

TECHNICAL REPORT



Report No: FCC1607048  
File reference No: 2016-08-13

Applicant: Shenzhen Transtar Electronics Co., LTD

Product: 2.4G Wireless Speaker

Model No: PTVSP18BK, TV-6000

Brand Name: PYLE

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: August 13, 2016

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.  
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen, Guangdong China  
Telephone: (755) 83448688  
Fax: (755) 83442996  
Site on File with the Federal Communications Commission – United States  
Registration Number: 899988  
For 3m Anechoic Chamber  
Site Listed with Industry Canada of Ottawa, Canada  
Registration Number: IC: 5205A-02  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: Shenzhen Transtar Electronics Co., LTD  
Address: Colinda Industrial Park, Opposite Side of No. 15 Furong Road, Tantou, Songgang Town, Bao'an District, Shenzhen, Guangdong, China 518105  
Telephone: 0755-61173686  
Fax: 0755-61113800

### 1.3 Description of EUT

Product: 2.4G Wireless Speaker  
Manufacturer: Shenzhen Transtar Electronics Co., LTD  
Address: Colinda Industrial Park, Opposite Side of No. 15 Furong Road, Tantou, Songgang Town, Bao'an District, Shenzhen, Guangdong, China 518105  
Brand Name: PYLE  
Model Number: PTVSP18BK  
Additional Model Name TV-6000  
Input Voltage: DC5V, 1.5A  
Modulation Type: GFSK  
Operation Frequency: 2403-2478MHz  
Channel Spacing: 3MHz  
Antenna Designation Integral antenna with gain -0.61dBi Max  
Power Adapter: Model No.:YeS12W-0500150US;  
Input: 100-240V, 50/60Hz, 0.35A; Output: 5V, 1.5A

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1.4 Submitted Sample  
2 Sample

1.5 Test Duration  
2016-07-06 to 2016-08-13

1.6 Test Uncertainty  
Conducted Emissions Uncertainty =3.6dB  
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

*Terry Tang*

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

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<b>2.0 Test Equipments</b>					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2015-08-22	2016-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2015-08-22	2016-08-21
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2015-08-22	2016-08-21
ESDV Test Receiver	R&S	ESDV	100008	2015-08-22	2016-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2015-08-22	2016-08-21
System Controller	CT	SC100	-	--	--
Loop Antenna	EMCO	6502	00042960	2015-08-23	2016-08-22
ESPI Test Receiver	R&S	ESI26	838786/013	2015-08-22	2016-08-21
3m Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W) )* 6.4(H)	--	2015-08-23	2016-08-22
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2015-08-24	2016-08-23
Horn Antenna	R&S	BBHA 9120D	9120D-631	2015-08-24	2016-08-23
Power meter	Anritsu	ML2487A	6K00003613	2015-08-22	2016-08-21
Power sensor	Anritsu	MA2491A	32263	2015-08-22	2016-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2015-08-23	2016-08-21
9*6*6 Anechoic	--	--	N/A	2015-08-24	2016-08-23
EMI Test Receiver	RS	ESCS30	100139	2015-08-22	2016-08-21
RF Cable	SCHWARZBECK	--	--	2015-08-23	2016-08-22
Pre-Amplifier	HP	8447D	2727A05017	2016-08-05	2017-08-04
Pre-Amplifier	EM	EM30265	--	2016-08-05	2017-08-04

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### 3.0 Technical Details

#### 3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209 and RSS-210	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

#### 3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 and ANSI C63.10 :2013

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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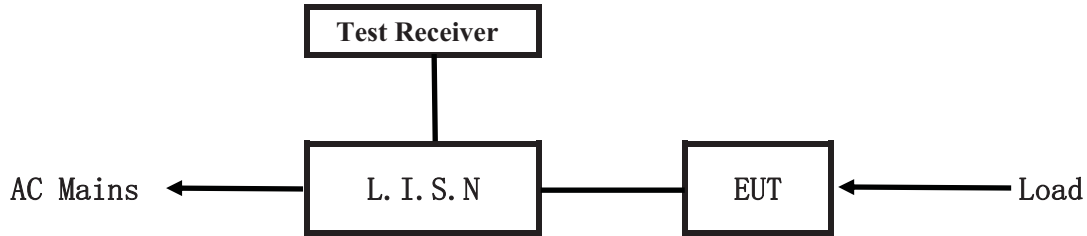
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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test

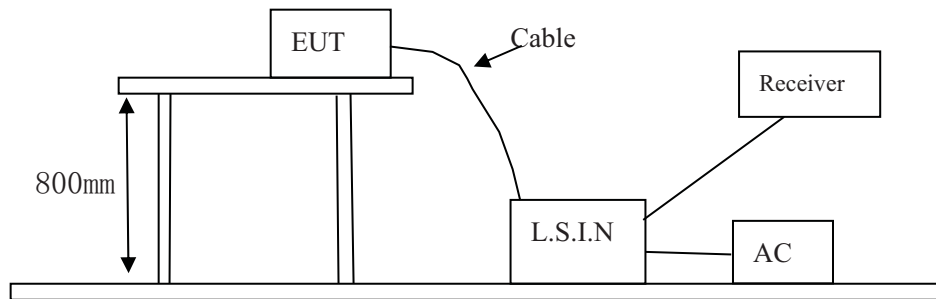


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	IC
2.4G Wireless Speaker	Shenzhen Transtar Electronics Co., LTD	PTVSP18BK, TV-6000	2AI2S-TVSB

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107 and 15.207

Frequency(MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

- Notes:
- \*Decreasing linearly with logarithm of frequency.
  - The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

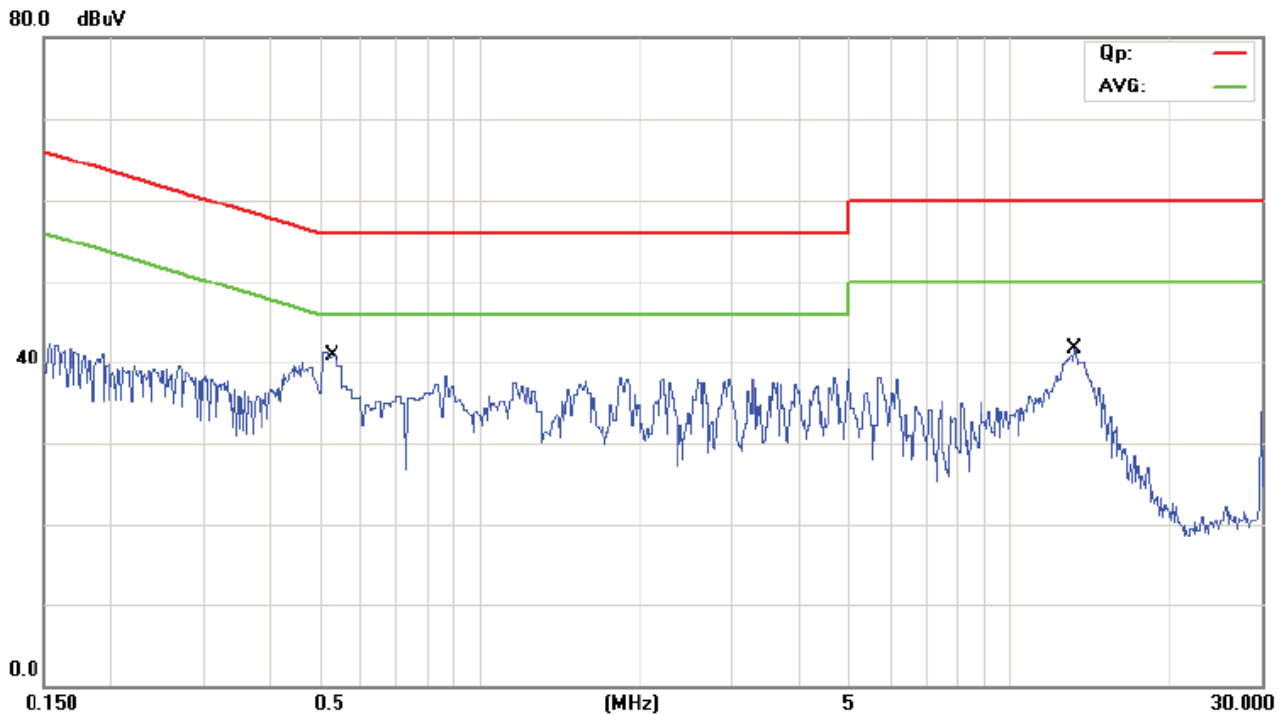
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep Transmitting**

**Equipment Level: Class B**

**Results: PASS**

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.5280	26.00	11.40	37.40	56.00	-18.60	QP	
2		0.5280	9.40	11.40	20.80	46.00	-25.20	AVG	
3		13.3060	23.90	11.33	35.23	60.00	-24.77	QP	
4		13.3060	-2.40	11.33	8.93	50.00	-41.07	AVG	

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

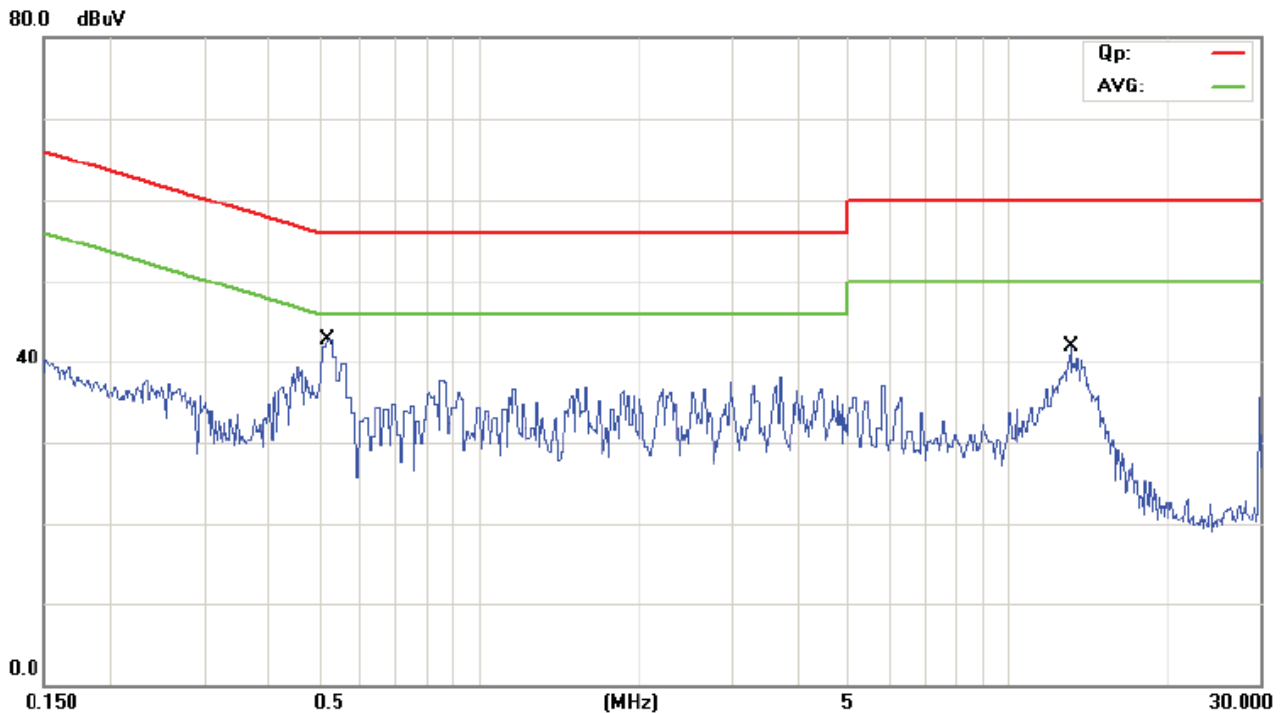
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep Transmitting**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.5170	29.20	11.39	40.59	56.00	-15.41	QP	
2	*	0.5170	24.70	11.39	36.09	46.00	-9.91	AVG	
3		13.1842	22.30	11.34	33.64	60.00	-26.36	QP	
4		13.1842	-1.60	11.34	9.74	50.00	-40.26	AVG	

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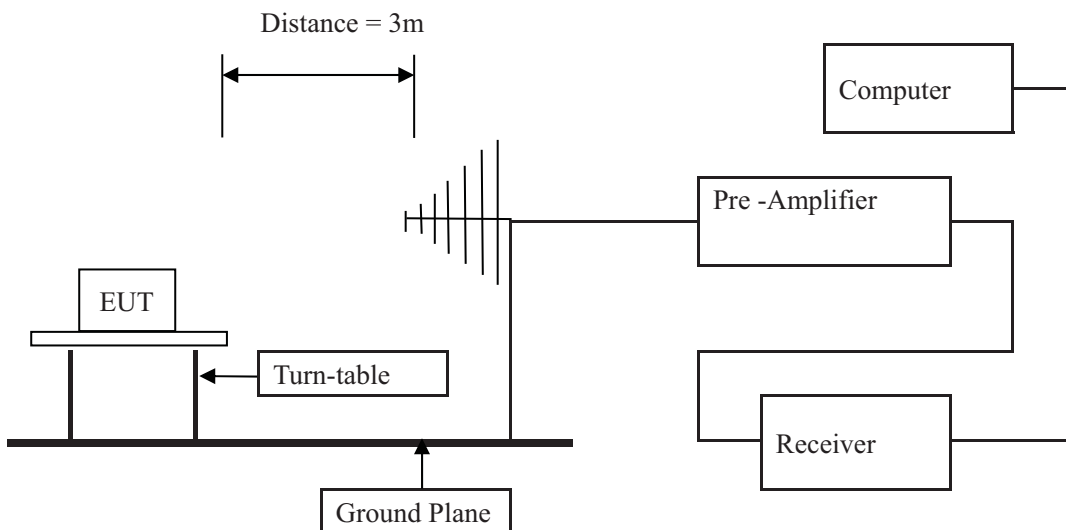


## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, PK values with RBW=3MHz, VBW=10MHz and PK detector used; RMS detector is for AV value . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**A FCC Part 15 Subpart C Paragraph 15.249(a) Limit**

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)		
	mV/m	dBuV/m	uV/m	dBuV/m	
2400-2483.5	50	94 (Average) 114 (Peak)	500	54 (Average)	74 (Peak)

- Note:
1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)
  2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
  3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

**B. Frequencies in restricted band are complied to limit on Paragraph 15.209.**

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
  2. In the Above Table, the tighter limit applies at the band edges.
  3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
  - 4 All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-18G, the final emission level got using PK. For fundamental measurement, PK detector used.

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## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Product:	2.4G Wireless Speaker	Test Mode:	Keep transmitting-Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	120V~	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m) setup: RBW 3MHz	Final Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2403	95.26(PK)/86.76(AV)	96.99(PK)/88.49(AV)	H	114/94	-17.01/-5.51
2403	93.21(PK)/84.52(AV)	94.85(PK)/86.25(AV)	V	114/94	-19.15/-7.75
4806	--		H	74/54	--
7209	--		V	74/54	--
9612	--		H	74/54	--
12015	--		V	74/54	--
14418	--		H	74/54	--
16821	--		V	74/54	--
19224	--		H/V	74/54	--
21627	--		H/V	74/54	--
24030	--		H/V	74/54	--

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss.

(3)Margin= Final Emission-Limits

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) Because the RWB is less than the BW, the BW factor should be added for final emission level.

For low channel, the BW factor is  $10\log(4.47/3)=1.73$

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Product:	2.4G Wireless Speaker	Test Mode:	Keep transmitting-Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	120V~	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m) setup: RBW 3MHz	Final Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2439	94.16(PK)/85.38(AV)	97.36(PK)/88.58(AV)	H	114/94	-16.64/-5.42
2439	92.39(PK)/83.71(AV)	95.59(PK)/86.91(AV)	V	114/94	-18.41/-7.09
4876	--		H	74/54	--
7314	--		V	74/54	--
9752	--		H	74/54	--
12190	--		V	74/54	--
14628	--		H	74/54	--
17066	--		V	74/54	--
19504	--		H/V	74/54	--
21942	--		H/V	74/54	--
24380	--		H/V	74/54	--

- Note:
- (1) PK= Peak, AV= Average
  - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
  - (3)Margin= Final Emission-Limits
  - (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) Because the RBW used is less than the BW, the BW factor should be added for final emission level. For low channel, the BW factor is  $10\log(6.27/3)=3.20$

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Product:	2.4G Wireless Speaker	Test Mode:	Keep transmitting-High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	120V~	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m) setup: RBW 3MHz	Final Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2478	93.86(PK)/85.40(AV)	98.34(PK)/89.88(AV)	H	114/94	-15.66/-4.12
2478	91.65(PK)/83.18(AV)	96.13(PK)/87.66(AV)	V	114/94	-17.87/-6.34
4956	--		H	74/54	--
7434	--		V	74/54	--
9912	--		H	74/54	--
12390	--		V	74/54	--
14868	--		H	74/54	--
17346	--		V	74/54	--
19824	--		H/V	74/54	--
22302	--		H/V	74/54	--
24780	--		H/V	74/54	--

- Note:
- (1) PK= Peak, AV= Average
  - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
  - (3)Margin= Final Emission-Limits
  - (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
  - (5) Because the RWB is less than the BW, the BW factor should be added for final emission level.  
For low channel, the BW factor is  $10\log(8.42/3)=4.48$

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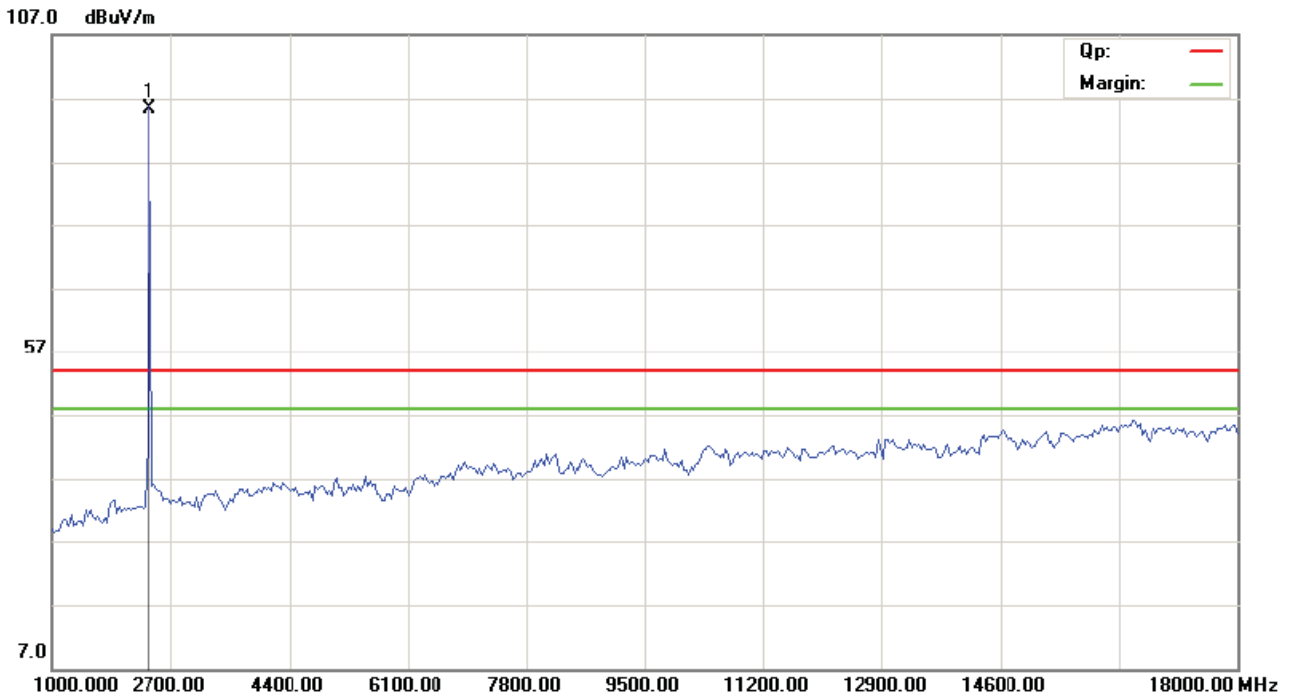
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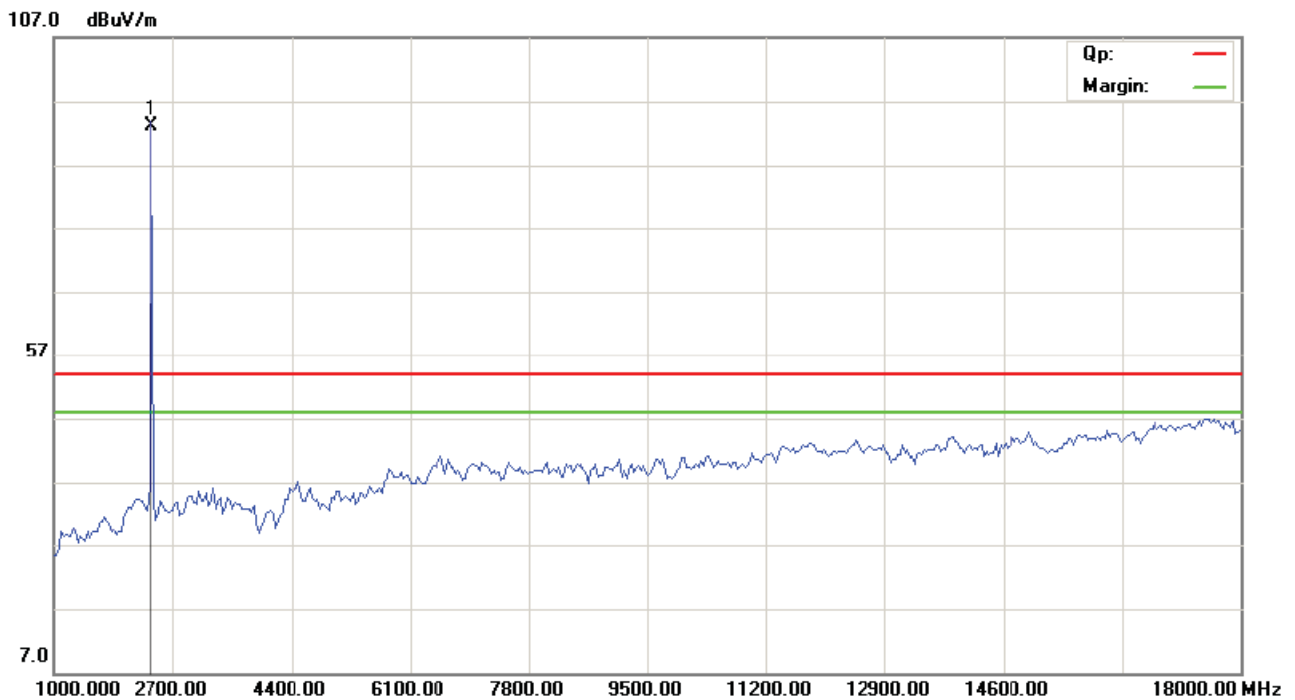


Please refer to the following test plots for details: Low Channel

### Horizontal



### Vertical



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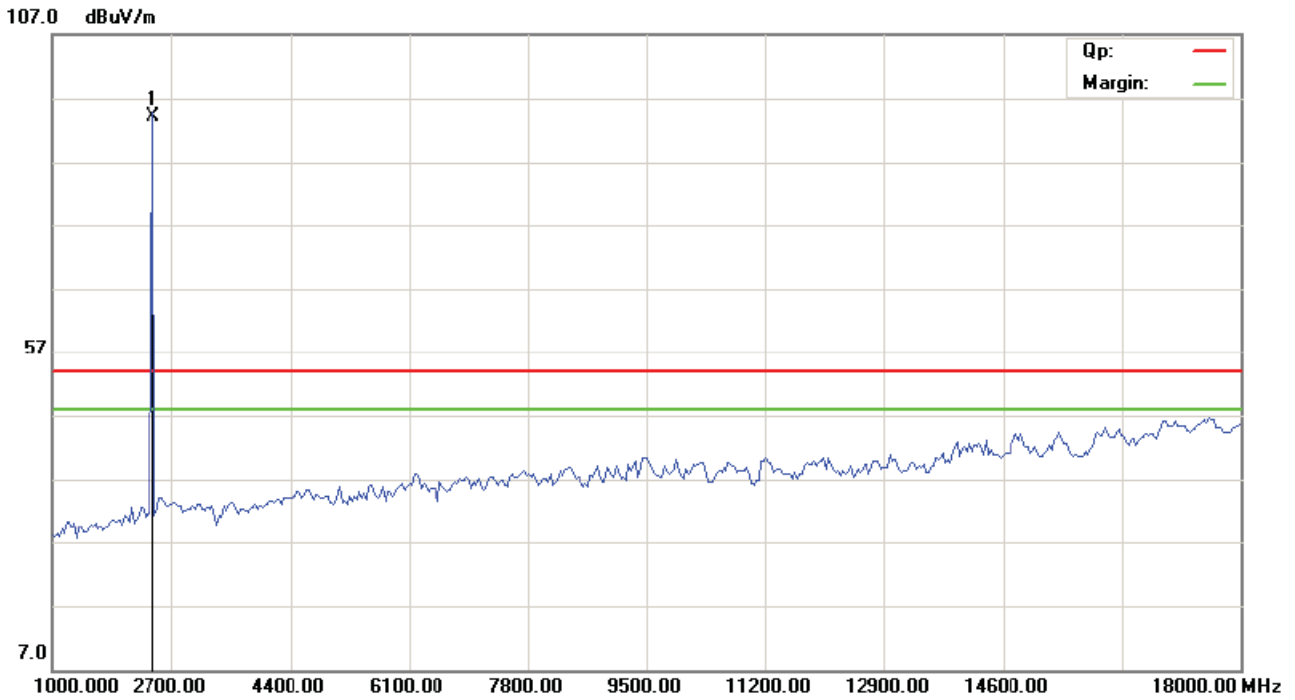
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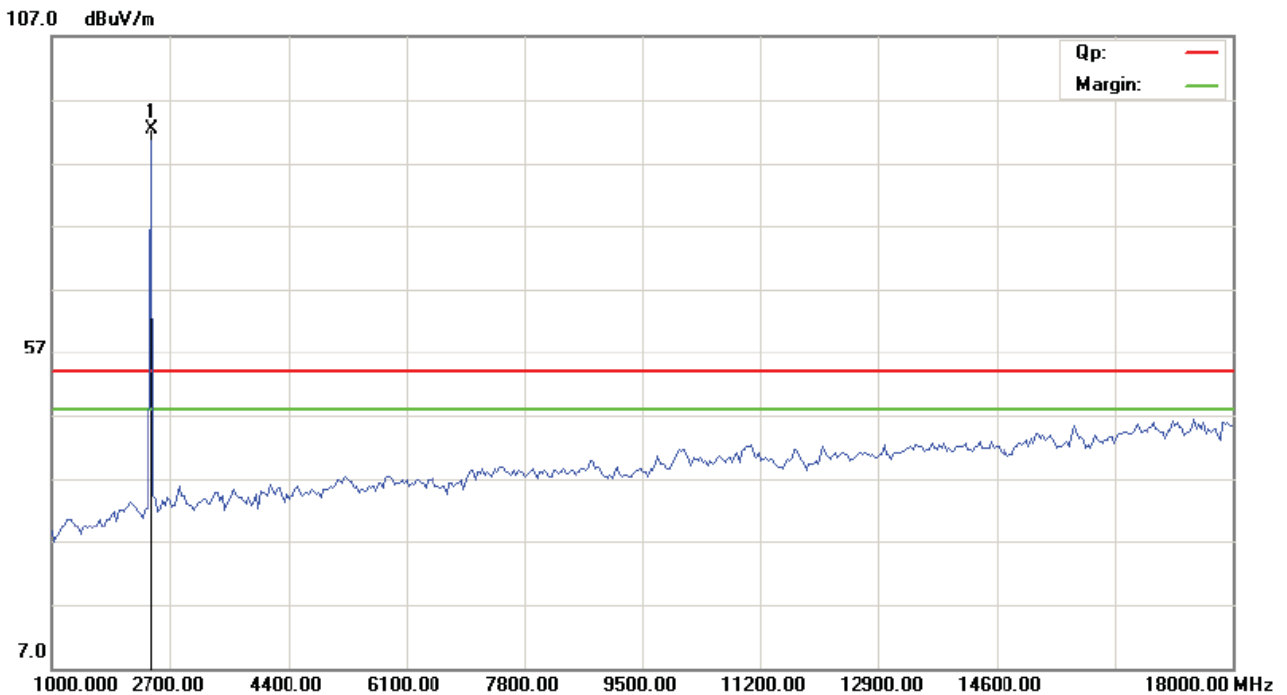


Please refer to the following test plots for details: Middle Channel

### Horizontal



### Vertical



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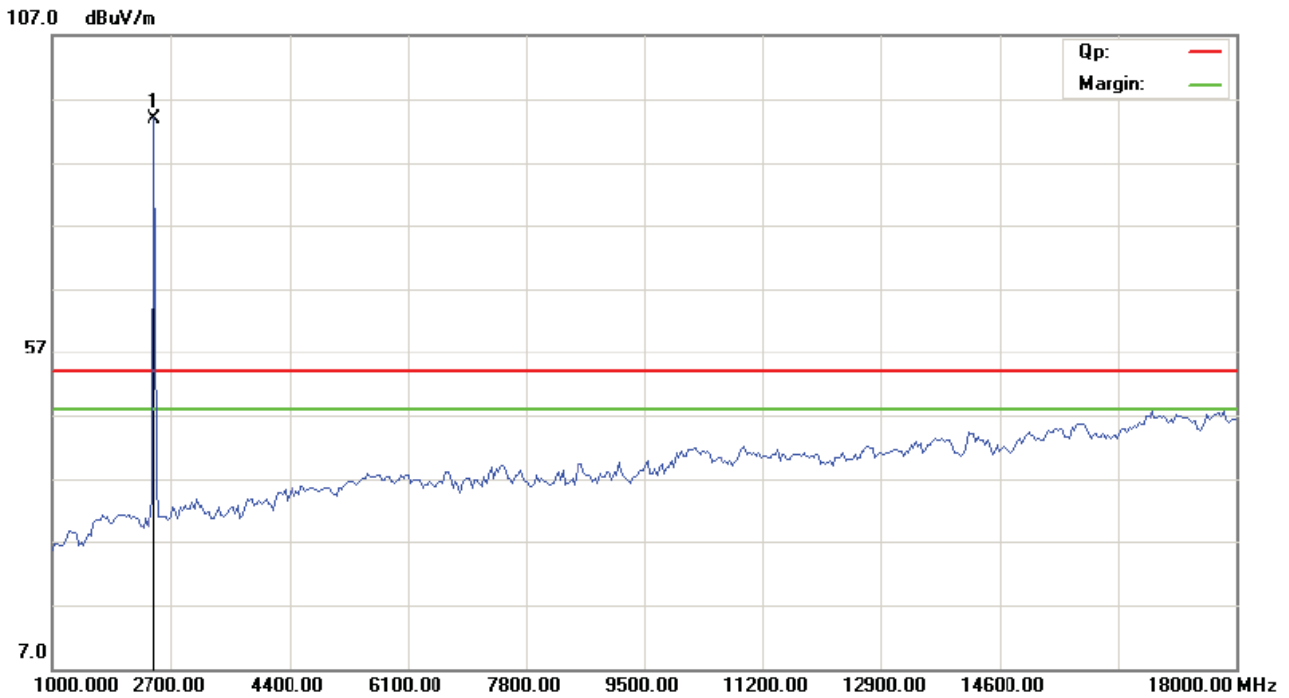
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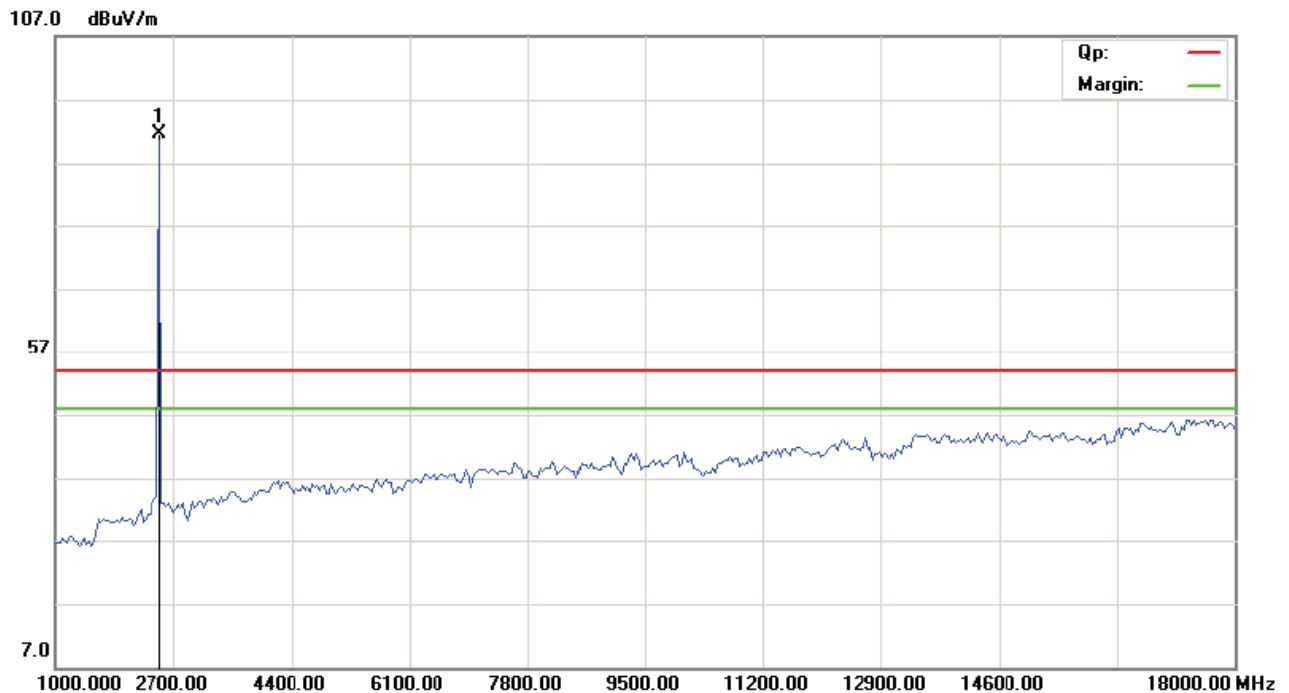


Please refer to the following test plots for details: High Channel

### Horizontal



### Vertical



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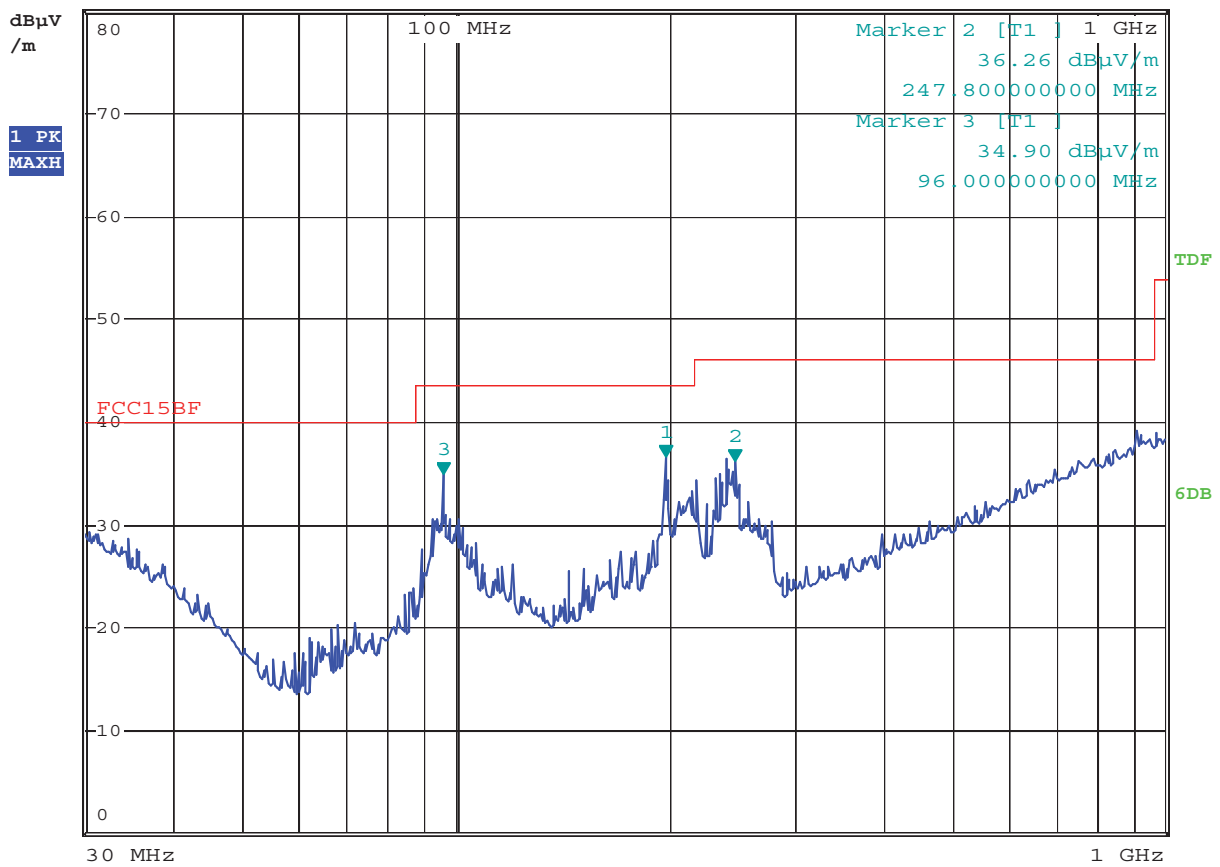
**B. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual

	<b>MARKER 1</b>	RBW 120 kHz	Marker 1 [T1]
	198 MHz	MT 50 μs	36.64 dBμV/m
	Att 10 dB	PREAMP ON	198.000000000 MHz



Date: 8.AUG.2016 10:00:11

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
198.000	36.64	H	43.50
247.800	36.26	H	46.00
96.000	34.90	H	43.50

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**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

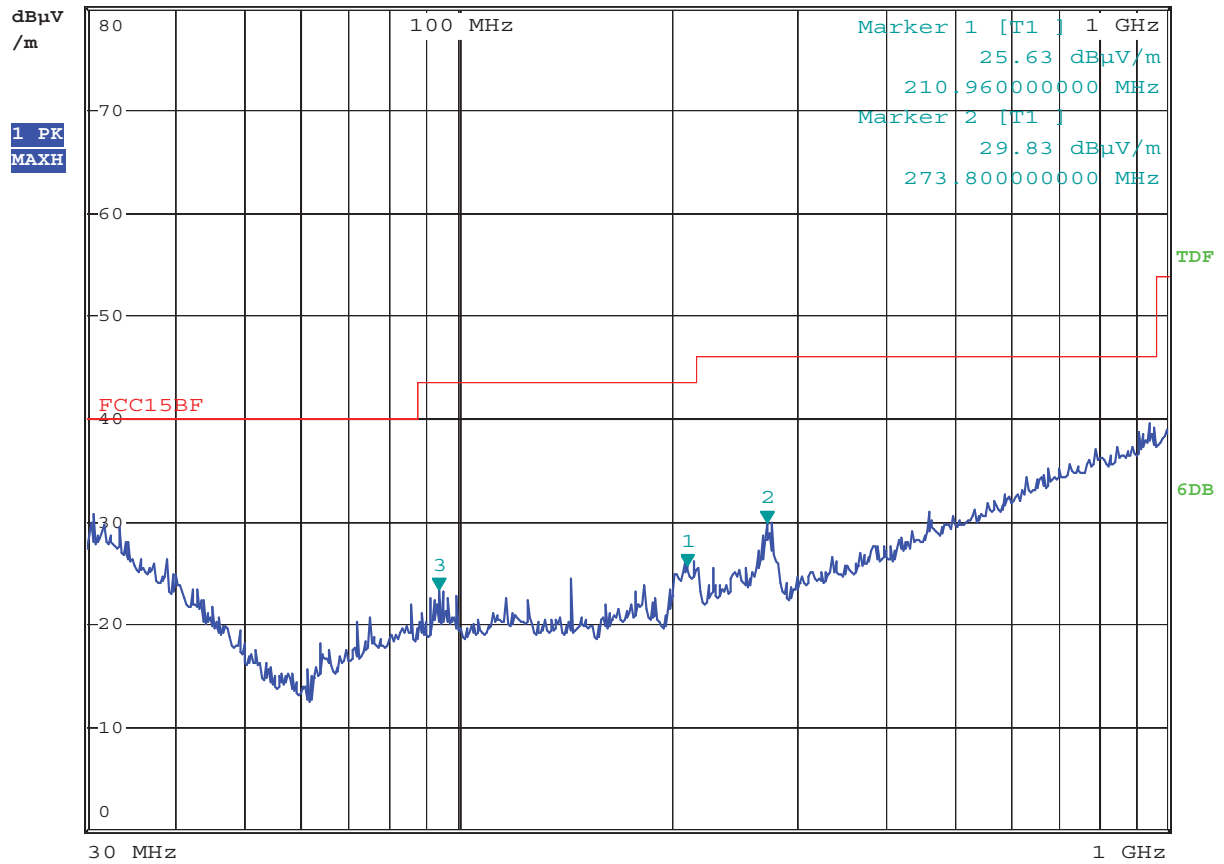
**Results: Pass**

Please refer to following diagram for individual



**MARKER 3**  
 94.24 MHz  
 Att 10 dB

RBW 120 kHz Marker 3 [T1 ]  
 MT 50 μs 23.35 dBμV/m  
 PREAMP ON 94.24000000 MHz



Date: 8.AUG.2016 10:01:56

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
94.240	23.35	V	43.50
210.960	25.63	V	43.50
273.800	29.83	V	46.00

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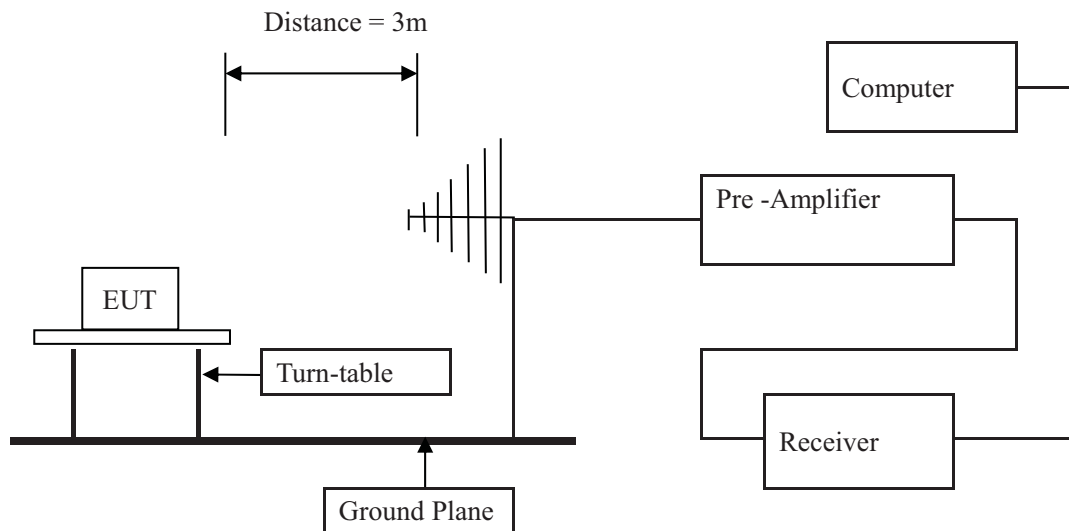


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 899988
- (2) Set Spectrum as RBW=1000kHz, VBW=3000kHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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**7.6 Test Result**

Product:	2.4G Wireless Speaker		Polarity	Horizontal
Mode	Keeping Transmitting-- Low CH		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2400MHz	PK (dBμV/m)	63.28	Limit	74 dBμV/m
2400MHz	AV (dBμV/m)	46.39	Limit	54 dBμV/m
2390 MHz	PK (dBμV/m)	43.17	Limit	74 dBμV/m
2390 MHz	AV (dBμV/m)	--	Limit	54 dBμV/m

Product:	2.4G Wireless Speaker		Detector	Vertical
Mode	Keeping Transmitting-- Low CH		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2400MHz	PK (dBμV/m)	60.87	Limit	74 dBμV/m
2400MHz	AV (dBμV/m)	43.22	Limit	54 dBμV/m
2390 MHz	PK (dBμV/m)	41.09	Limit	74 dBμV/m
2390 MHz	AV (dBμV/m)	--	Limit	54 dBμV/m

Product:	2.4G Wireless Speaker		Polarity	Horizontal
Mode	Keeping Transmitting--High CH		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2483.5MHz	PK (dBμV/m)	43.65	Limit	74 dBμV/m
2483.5MHz	AV (dBμV/m)	--	Limit	54 dBμV/m

Product:	2.4G Wireless Speaker		Detector	Vertical
Mode	Keeping Transmitting--High CH		Test Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2483.5MHz	PK (dBμV/m)	43.01	Limit	74 dBμV/m
2483.5MHz	AV (dBμV/m)	--	Limit	54 dBμV/m

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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## 8.0 Antenna Requirement

### Applicable Standard

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a Integral antenna. The antenna gain is -0.61dBi Max. It fulfills the requirement of this section.  
Test Result: Pass

The report refers only to the sample tested and does not apply to the bulk.

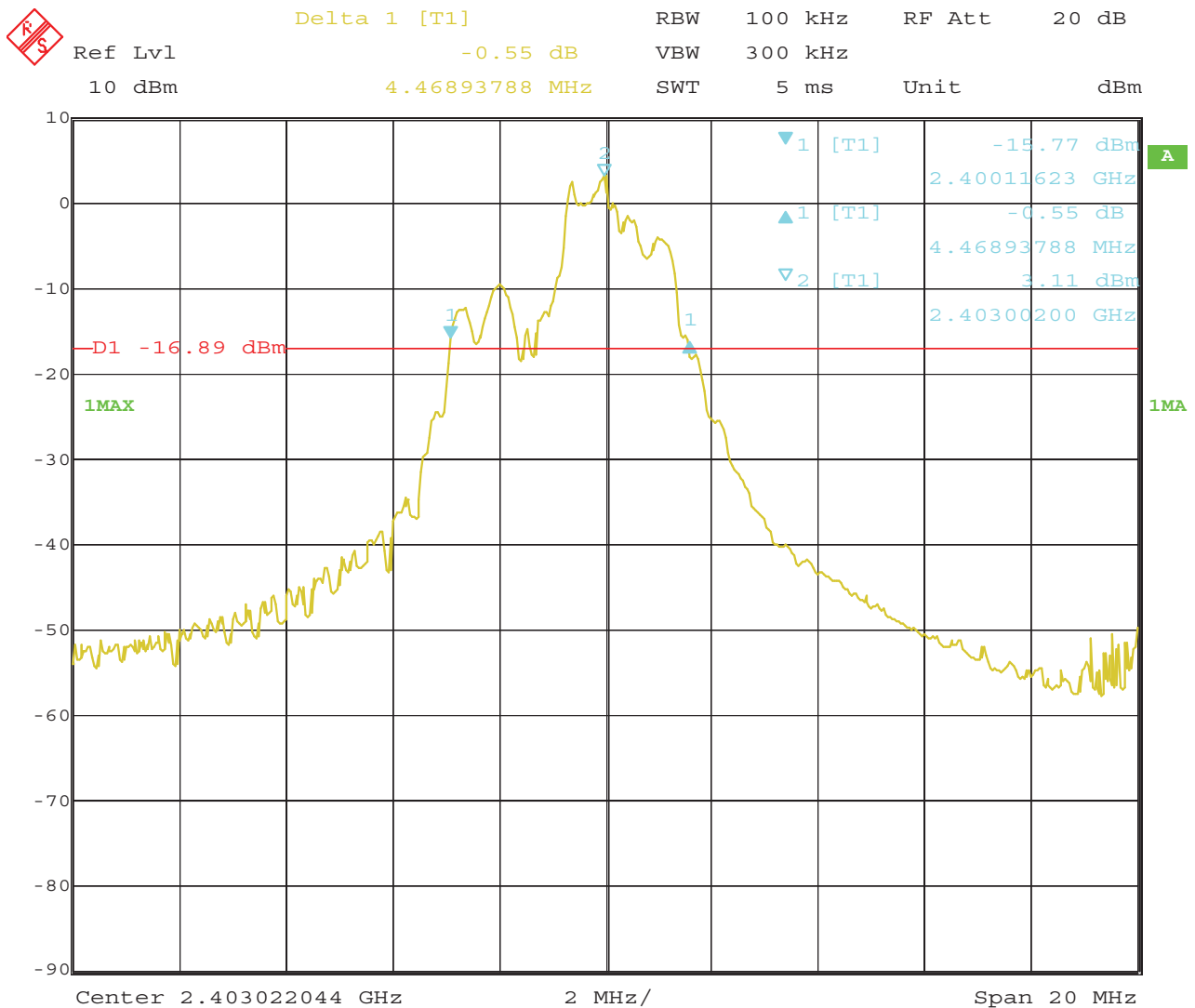
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9.0 20dB Bandwidth Measurement			
Product:	2.4G Wireless Speaker	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	4.47MHz	--	--

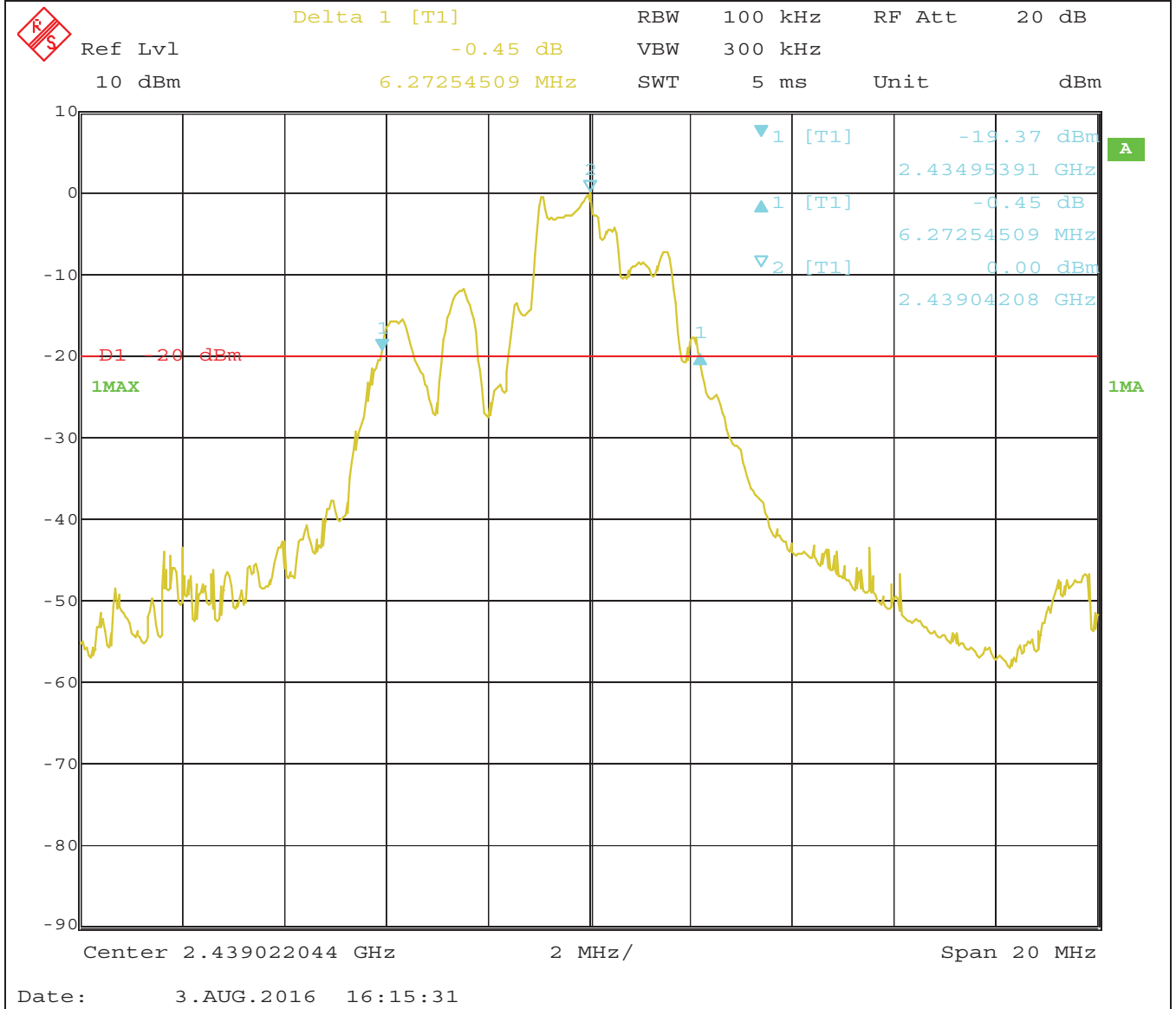


Date: 3.AUG.2016 16:20:37

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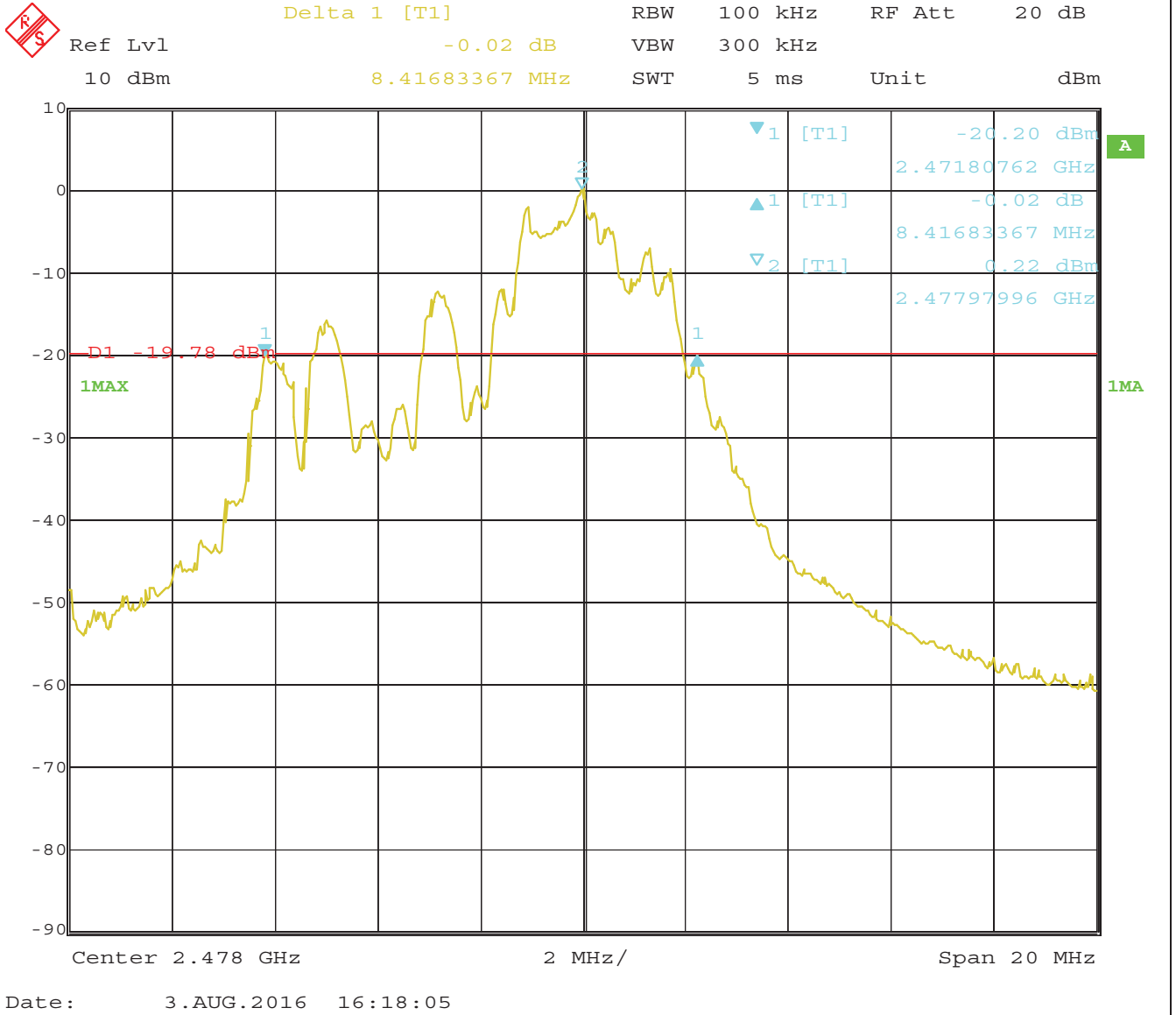
Product:	2.4G Wireless Speaker	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	6.27MHz	--	--



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Product:	2.4G Wireless Speaker	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	8.42MHz	--	--



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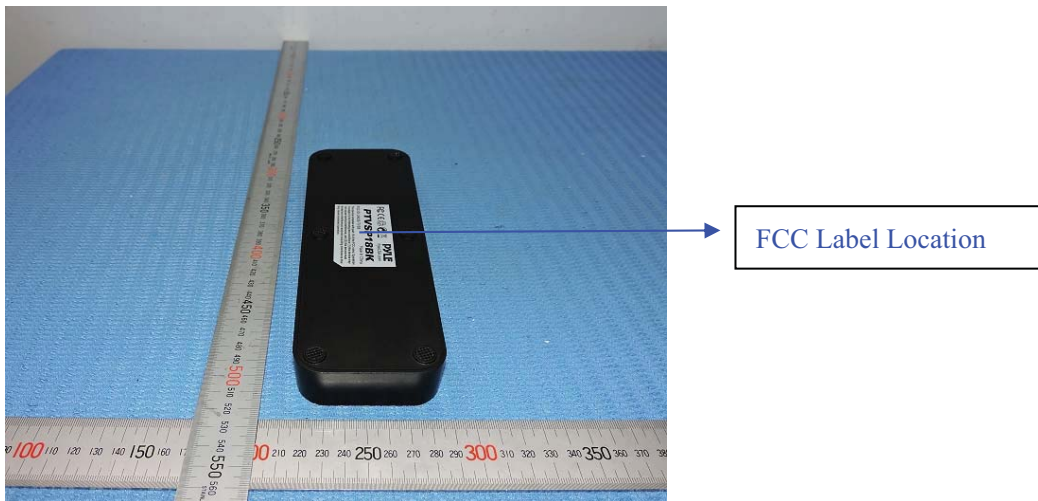
## 10.0 FCC ID Label

### FCC ID: 2A12S-TVSB

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



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## 11.0 Photo of testing

### 11.1 Conducted test View--

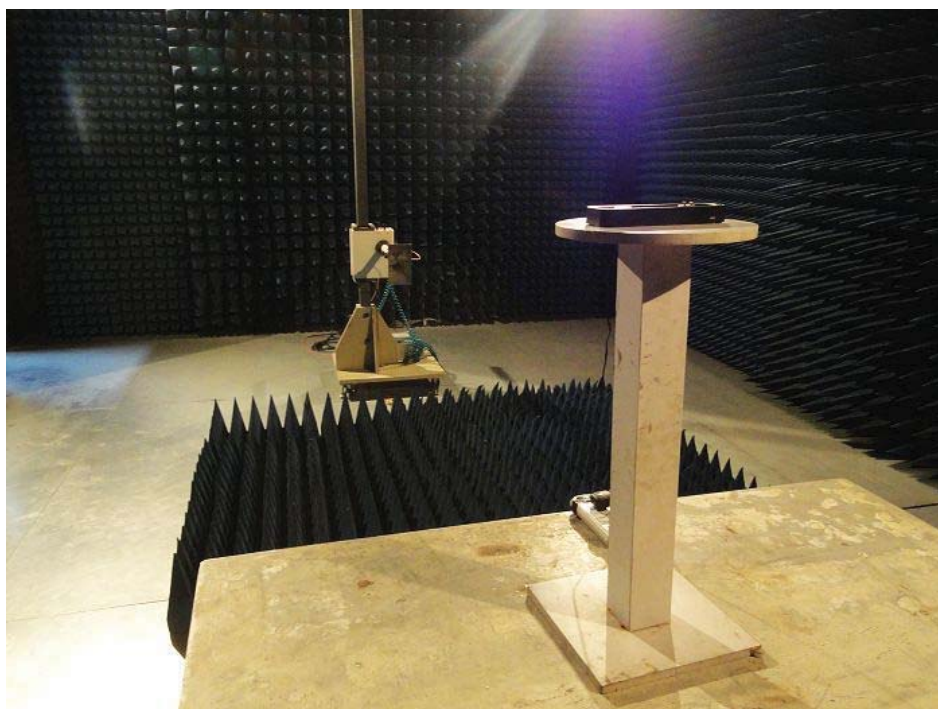


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11.2 Radiated emission test view



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### 11.3 Photographs – EUT

Outside view



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Outside view



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Outside view



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Outside view



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Outside view



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Inside view



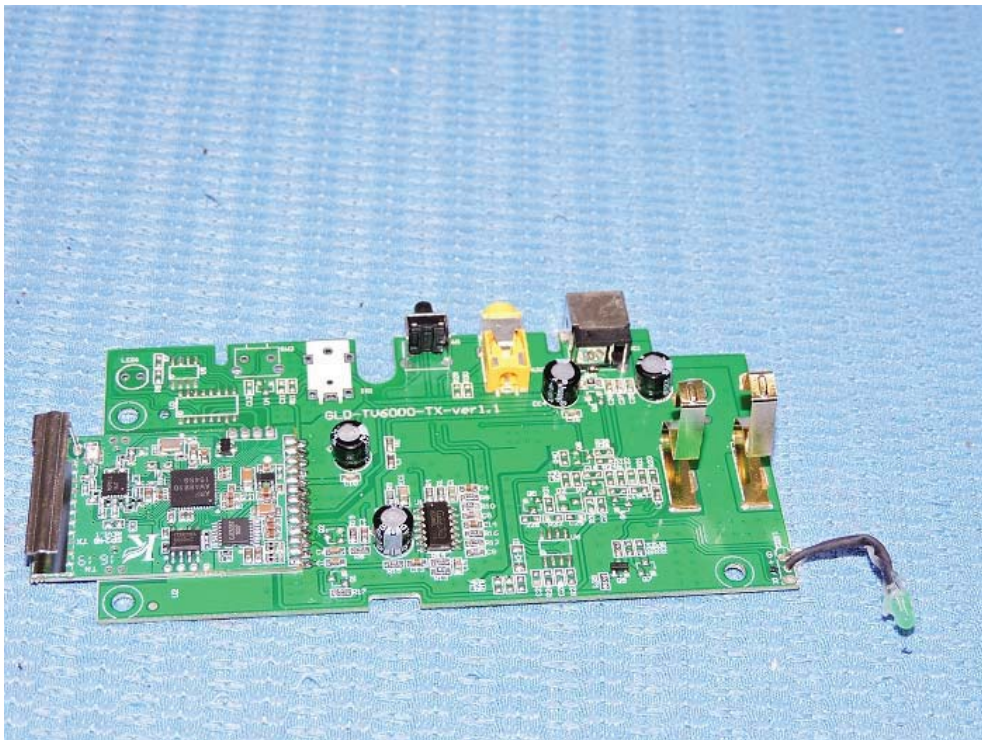
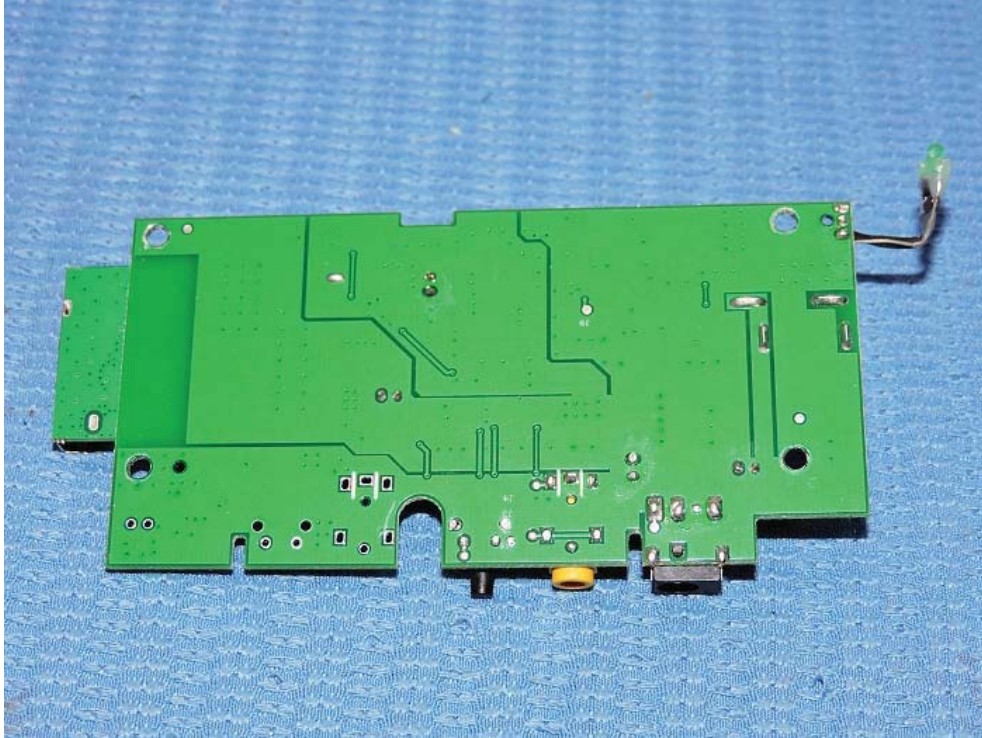
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Inside view



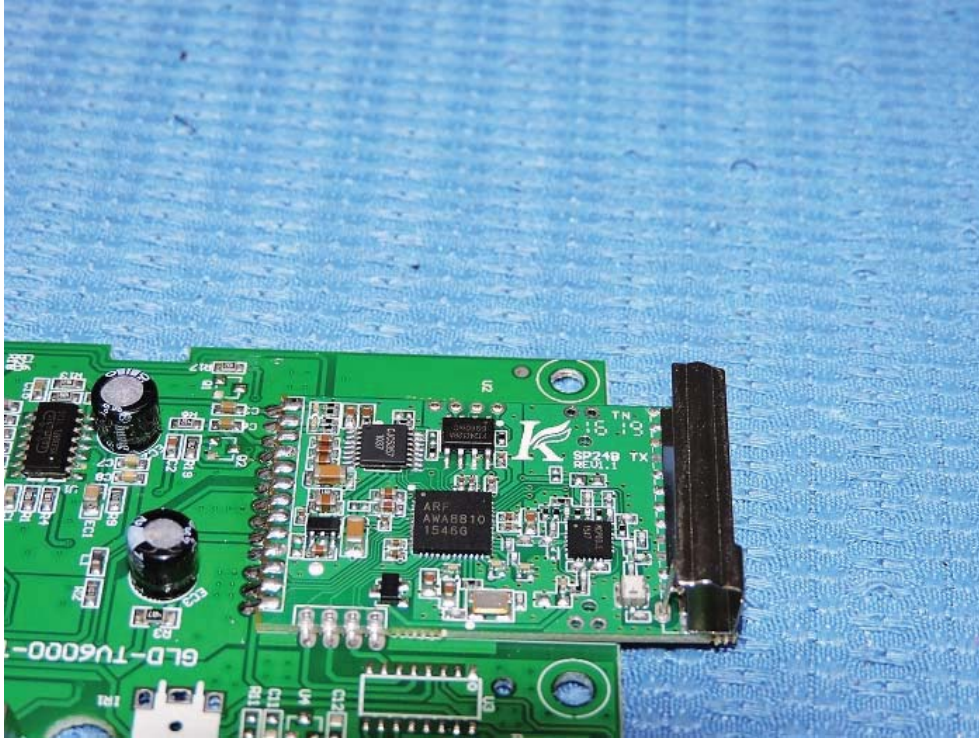
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Inside view



**--End of the report--**

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