# FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

TCL Technoly Electronics (Huizhou) Co.,Ltd

Levitation Bluetooth Speaker (Mars Base)

Model Number: L141

FCC ID: ZVAPS000020

Prepared for: TCL Technoly Electronics (Huizhou) Co.,Ltd

Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China, 516006

Prepared By: EST Technology Co., Ltd.

Santun(guantai Road), Houjie Town, DongGuan City,

GuangDong, China.

Tel: 86-769-83081888-808

Report Number: ESTE-R1509029

Date of Test : August 15~September 09,2015

Date of Report: September 11,2015

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# **Test Report Verification**

	TCL Technoly Electronics (Huizhou)	Co. I td						
<b>Applicant:</b>	TCL Technoly Electronics (Huizhou) Co.,Ltd Section 37, Zhongkai High-tech Development Zone,							
Address:	Huizhou City, Guang Dong Province, China, 516006							
Manufacturer	Crazybaby Inc.							
Address:	175 South Main Suite,500 Salt Lake C	Sity UT 84111 United States						
E.U.T:	Levitation Bluetooth Speaker	ity, or overly, omica states.						
Model Number:	L141							
	DC 7.4V From Internal Battery							
Power Supply:	DC 12V From Adapter Input AC 100-2	240V~50/60Hz						
Test Voltage:	AC 120V/240V							
Trade Name:	Mars by crazybaby Serial No.:	:						
Date of Receipt:	August 11, 2015 Date of Te	August 15~September 09,2015						
<b>Test Specification:</b>	FCC Rules and Regulations Part 15 Su ANSI C63.10:2013	ıbpart C:2014						
Test Result:	The device described above is tested by measurement results were contained in Co., Ltd. was assumed full responsibility of these measurements. Also, this report technically compliance with the FCC In C requirements.  This report applies to above tested same in part without written approval of EST.	n this test report and EST Technology ity for the accuracy and completeness ort shows that the EUT to be Rules and Regulations Part 15 Subpart uple only and shall not be reproduced						
Prepared by:	Tested by:	Approved by:						
Ada	Lom	Trementhe						
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager						
Other Aspects: None.								
Abbreviations: OK/P=pas.	sed fail/F=failed n.a/N=not applicable	E.U.T=equipment under tested						
	n a single evaluation of one sample of above ment yout written approval of EST Technology Co., Ltd.							

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# 1. GENERAL INFORMATION

1.1. Description of Device (EUT)

**Product Name** : Levitation Bluetooth Speaker

**Model Number** : L141

FCC ID : ZVAPS000020

**Operation frequency** : 112-205 kHz

**Modulation** : ASK

**Antenna Type** : Coil Antenna

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# 2. SUMMARY OF TEST

# 2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emissions	FCC Part 15C: 15.207 ANSI C63.10-2013	PASS
Radiated Emission Test	FCC Part 15C: 15.209 ANSI C63.10-2013	PASS

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#### 2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA

Registration No.: L5288

Date of registration: Nov 23, 2014

Certificated by FCC, USA Registration No.: 989591

Date of registration: November 20, 2013

Certificated by Industry Canada Registration No.: 9405A-1

Date of registration: January 03, 2013

Certificated by VCCI, Japan

Registration No.: R-3663 & C-4103 Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen

Registration No.: SCN1017

Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011

Certificated by Siemic, Inc. Registration No.: SLCN021

Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong

Registration No.: 175193

Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : San Tun Management Zone, Houjie District, Dongguan,

Guangdong, China

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## 2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for radio frequency	7×10 <sup>-8</sup>
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

# 2.4. Assistant equipment used for test

#### 2.4.1. Adapter

M/N: TMUA120200A

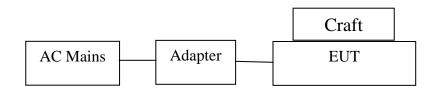
Manufacturer : TCL Technoly Electronics (Huizhou) Co.,Ltd

INPUT : AC 100~240V-50/60Hz, 1.0A Max.

OUTPUT : DC 12.0V, 2.0A

## 2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was be set into BT test mode by software before test.



(EUT: Levitation Bluetooth Speaker)

#### 2.6. Test mode

Charging

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# 2.7. Test Equipment

## 2.7.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June,28,15	1 Year
Artificial Mains Networ	Rohde & Schwarz	ENV216	101260	June,28,15	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June,28,15	1 Year

## 2.7.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June,29,15	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June,29,15	1 Year

## 2.7.3. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June,28,15	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June,28,15	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June,28,15	1 Year
Signal Amplifier	Agilent	310N	187037	June,28,15	1 Year

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### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Limit

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	dB(µV)	$dB(\mu V)$			
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*			
500kHz ~ 5MHz	56	46			
5MHz ~ 30MHz	60	50			

Notes: 1. \* Decreasing linearly with logarithm of frequency.

#### 3.2. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

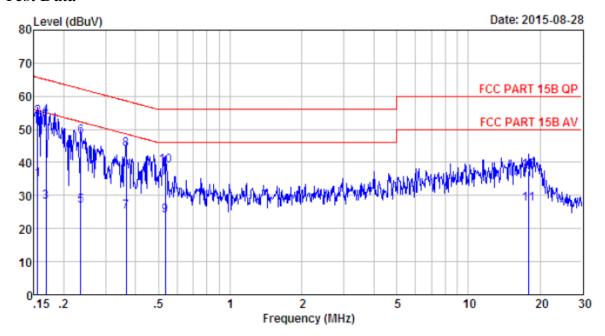
#### 3.3. Test Result

**PASS.** (The testing data was attached in the next pages.)

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<sup>2.</sup> The lower limit shall apply at the transition frequencies.

#### 3.4. Test Data



: 844 Shield Room

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa NEUTRAL

: FCC PART 15B QP : Tony Limit

Engineer

EUT : Levitation Bluetooth Speaker

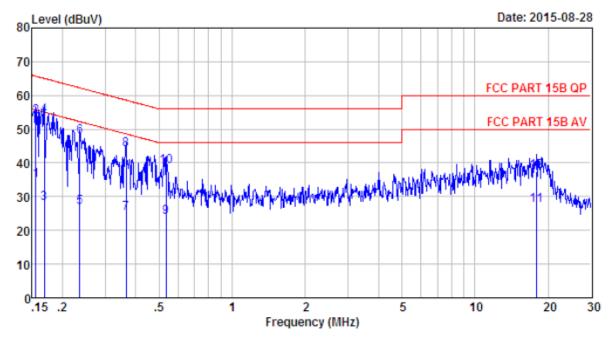
: DC 12V From Adapter Input AC 120V/60Hz Power

M/N : L141

Test Mode : Wireless Charging

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.48	9.81	15.50	34.79	55.69	20.90	Average
2	0.16	9.48	9.81	34.50	53.79	65.69	11.90	QP
3	0.17	9.52	9.81	8.60	27.93	55.03	27.10	Average
4	0.17	9.52	9.81	34.60	53.93	65.03	11.10	QP
5	0.24	9.60	9.82	7.36	26.78	52.26	25.48	Average
6	0.24	9.60	9.82	28.36	47.78	62.26	14.48	QP
7	0.37	9.59	9.82	5.66	25.07	48.61	23.54	Average
8	0.37	9.59	9.82	24.66	44.07	58.61	14.54	QP
9	0.53	9.60	9.82	4.63	24.05	46.00	21.95	Average
10	0.53	9.60	9.82	19.63	39.05	56.00	16.95	QP
11	17.94	9.80	9.94	7.85	27.59	50.00	22.41	Average
12	17.94	9.80	9.94	17.85	37.59	60.00	22.41	QP

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: 844 Shield Room Site no

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa NEUTRAL

: FCC PART 15B QP Limit

Engineer : Tony

EUT : Levitation Bluetooth Speaker

: DC 12V From Adapter Input AC 120V/60Hz Power

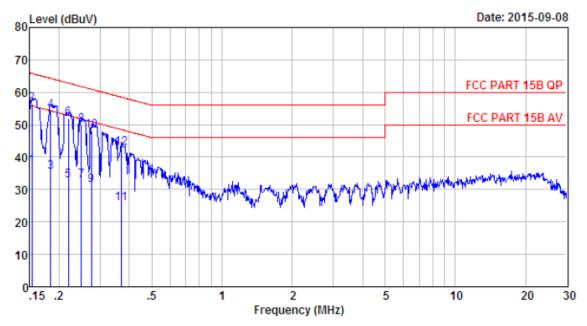
M/N : L141

Test Mode : Wireless Charging

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.48	9.81	15.50	34.79	55.69	20.90	Average
2	0.16	9.48	9.81	34.50	53.79	65.69	11.90	QP
3	0.17	9.52	9.81	8.60	27.93	55.03	27.10	Average
4	0.17	9.52	9.81	34.60	53.93	65.03	11.10	QP
5	0.24	9.60	9.82	7.36	26.78	52.26	25.48	Average
6	0.24	9.60	9.82	28.36	47.78	62.26	14.48	QP
7	0.37	9.59	9.82	5.66	25.07	48.61	23.54	Average
8	0.37	9.59	9.82	24.66	44.07	58.61	14.54	QP
9	0.53	9.60	9.82	4.63	24.05	46.00	21.95	Average
10	0.53	9.60	9.82	19.63	39.05	56.00	16.95	QP
11	17.94	9.80	9.94	7.85	27.59	50.00	22.41	Average
12	17.94	9.80	9.94	17.85	37.59	60.00	22.41	QP







Site no : 844 Shield Room Data no. : 25
Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL

Limit : FCC PART 15B QP

Engineer : Tony

EUT : Wireless Speaker

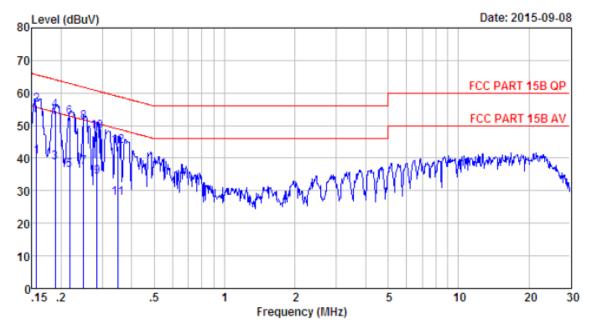
Power : DC 12V From Adapter Input AC 240V/60Hz

M/N : Mars

Test Mode : Wireless Charging

		ISN	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(db)	(db)	dBuV)	(dBuv)	(dBuv)	(dB)	
1	0.153	9.47	9.81	17.96	37.24	55.82	18.58	Average
2	0.153	9.47	9.81	36.96	56.24	65.82	9.58	QP
3	0.184	9.56	9.80	15.92	35.28	54.28	19.00	Average
4	0.184	9.56	9.80	34.92	54.28	64.28	10.00	QP
5	0.220	9.60	9.80	13.43	32.83	52.83	20.00	Average
6	0.220	9.60	9.80	32.43	51.83	62.83	11.00	QP
7	0.249	9.60	9.82	13.47	32.89	51.78	18.89	Average
8	0.249	9.60	9.82	30.47	49.89	61.78	11.89	QP
9	0.276	9.60	9.83	11.83	31.26	50.94	19.68	Average
10	0.276	9.60	9.83	28.83	48.26	60.94	12.68	QP
11	0.369	9.59	9.82	6.26	25.67	48.52	22.85	Average
12	0.369	9.59	9.82	23.26	42.67	58.52	15.85	QP





Site no : 844 Shield Room Data no. : 27 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : Tony

EUT : Wireless Speaker

Power : DC 12V From Adapter Input AC 240V/60Hz

M/N : Mars

Test Mode : Wireless Charging

		ISN	Cable		Emission			
	Freq. (MHz)	Factor (db)	Loss (db)	Reading dBuV)	Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.156	9.61	9.81	21.07	40.49	55.65	15.16	Average
2	0.156	9.61	9.81	37.07	56.49	65.65	9.16	QP
3	0.188	9.61	9.80	19.15	38.56	54.11	15.55	Average
4	0.188	9.61	9.80	35.15	54.56	64.11	9.55	QP
5	0.217	9.61	9.80	17.02	36.43	52.92	16.49	Average
6	0.217	9.61	9.80	33.02	52.43	62.92	10.49	QP
7	0.249	9.61	9.82	17.70	37.13	51.78	14.65	Average
8	0.249	9.61	9.82	31.70	51.13	61.78	10.65	QP
9	0.285	9.61	9.83	14.68	34.12	50.68	16.56	Average
10	0.285	9.61	9.83	28.68	48.12	60.68	12.56	QP
11	0.348	9.61	9.83	8.34	27.78	49.00	21.22	Average
12	0.348	9.61	9.83	24.34	43.78	59.00	15.22	QP



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# 4. RADIATED EMISSIONS

# 4.1. Limit

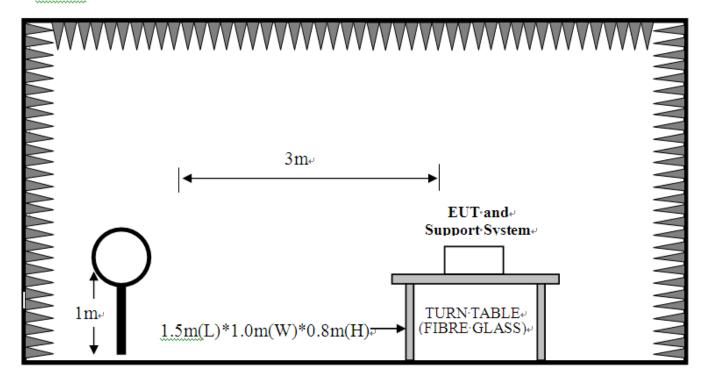
Frequency (MHz)	Field strength (μV/m)	Distance (m)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 960	500	3		

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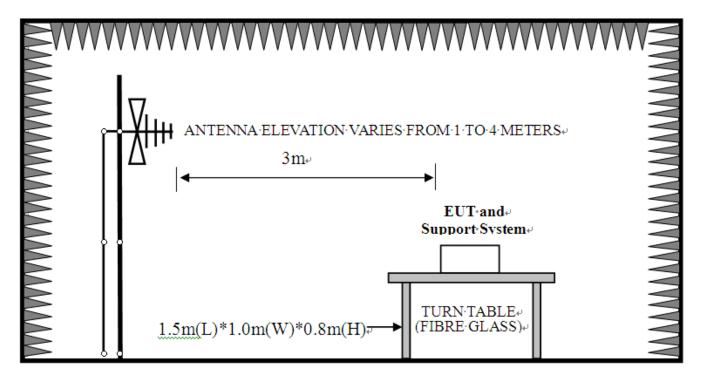


# 4.2. Block Diagram of Test setup

9kHz~30MHz~



30~1000MHz<sub>4</sub>



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#### 4.3. Test Procedure

#### Below 30MHz

- 1. The Product is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.
- 2. For each suspected emission, the Product was arranged to its worst case and then turn table was turned from 0 degrees to 360 degrees to find the maximum reading. c. The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

#### 30MHz ~ 1GHz:

- 1. The Product was placed on the non-conductive turntable 0.8m above the ground at a chamber.
- 2. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees. c. For each frequency whose maximum record was higher or close to limit, measure its QP value (120 kHz RBW): vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

#### 4.4. Test Result

#### PASS.

- Note: 1. Below 30MHz: The radiation measurements are performed in X, Y, Z axis positioning. And worst case mode is recorded in the report.
  - 2. The frequency 5730MHz 5776MHz and 5824MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

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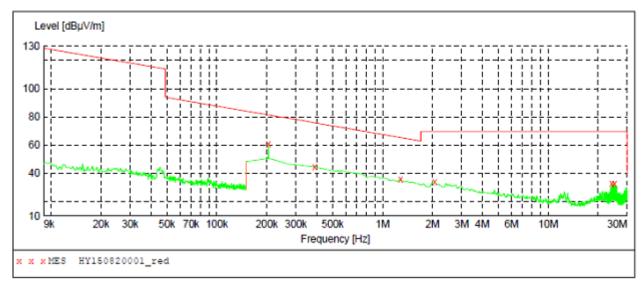


# 4.5. Test Data

### 9 kHz - 30 MHz

EUT: Levitation Bluetooth Speaker						
M/N: L141						
Test date: 2015-08-20	Tested by: Tony.Tang	Test site:	RF Site			
Mode: Wireless Charging						
Power: DC 12V From Adapter Input AC 120V/60Hz						
Temperature : 24°C						
Humidity: 53%						

 $\mathbf{X}$ 



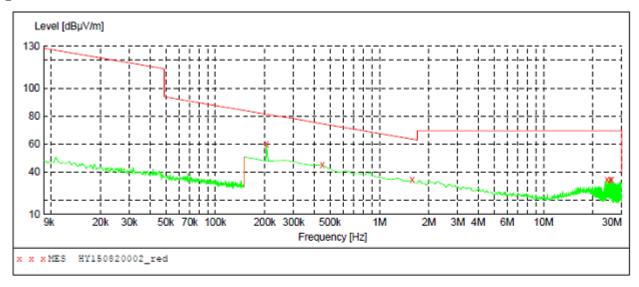
### MEASUREMENT RESULT: "HY150820001\_red"

20/08/2015 14	1:06							
Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
0.205000	60.67	-19.9	75.8	15.1		400.0	360.00	HORIZONTAL
0.388800	44.60	-19.9	75.8	31.2		400.0	360.00	HORIZONTAL
1.284300	35.80	-19.8	65.4	29.6		400.0	360.00	HORIZONTAL
2.060400	34.00	-19.5	69.5	35.5		400.0	360.00	HORIZONTAL
24.149400	32.70	-21.3	69.5	36.8		400.0	360.00	HORIZONTAL
25.224000	32.70	-21.5	69.5	36.8		400.0	360.00	HORIZONTAL

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## Y



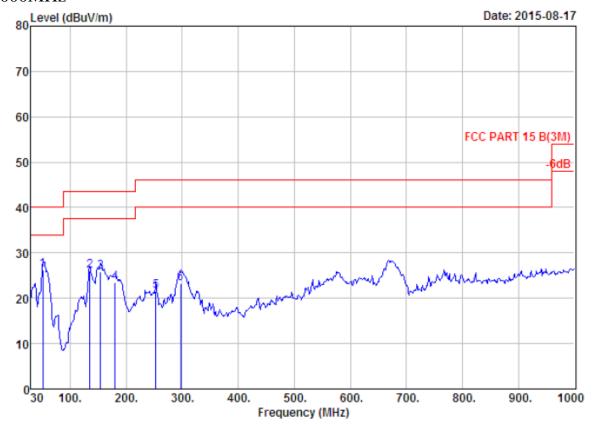
#### MEASUREMENT RESULT: "HY150820002\_red"

20.7	/ n o /	2015	14:01

20/08/2015 14	1:01						
Frequency MHz	Level dBµV/m		Limit dBµV/m		Height cm	Azimuth deg	Polarization
0.205000	60.10	-19.9	74.6	20.9	 400.0	360.00	VERTICAL
0.448500	45.20	-19.9	74.6	29.4	 400.0	360.00	VERTICAL
1.582800	34.50	-19.7	63.6	29.1	 400.0	360.00	VERTICAL
24.388200	34.70	-21.4	69.5	34.8	 400.0	360.00	VERTICAL
25.582200	34.90	-21.4	69.5	34.6	 400.0	360.00	VERTICAL
25.940400	34.60	-21.4	69.5	34.9	 400.0	360.00	VERTICAL

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#### 30-1000MHz



Site no. : 966 1# chamber Data no. : 33
Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Levitation Bluetooth Speaker

Power : DC 12V From Adapter Input AC 120V/60Hz

M/N : L141

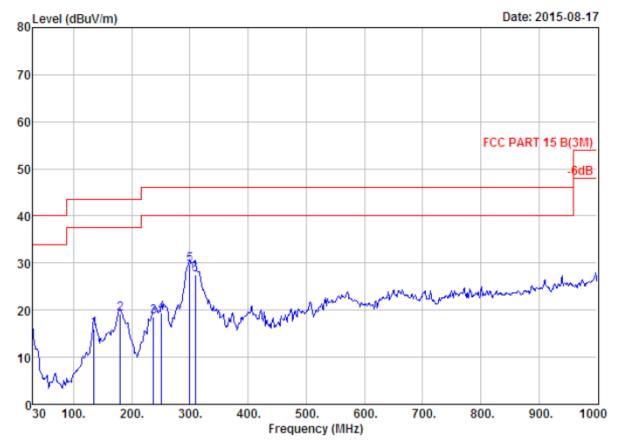
Test Mode : Wireless Charging

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
 1	51.34	6.92	0.89	18.50	26.31	40.00	13.69	QP
2	134.76	11.37	1.57	13.16	26.10	43.50	17.40	QP
3	154.16	10.71	1.66	13.35	25.72	43.50	17.78	QP
4	180.35	8.95	1.70	12.73	23.38	43.50	20.12	QP
5	253.10	12.17	2.17	7.25	21.59	46.00	24.41	QP
6	296.75	12.99	2.32	7.98	23.29	46.00	22.71	QP



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Site no. : 966 1# chamber Data no. : 34

Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:23.6'; Humi:56%; Press:101.52kPa

Engineer : Tony

EUT : Levitation Bluetooth Speaker

Power : DC 12V From Adapter Input AC 120V/60Hz

M/N : L141

Test Mode : Wireless Charging

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	134.76	11.37	1.57	3.17	16.11	43.50	27.39	QP
2	180.35	8.95	1.70	8.57	19.22	43.50	24.28	QP
3	237.58	10.01	2.09	6.37	18.47	46.00	27.53	QP
4	251.16	11.94	2.15	5.28	19.37	46.00	26.63	QP
5	299.66	13.01	2.38	14.28	29.67	46.00	16.33	QP
6	309.36	13.18	2.36	12.06	27.60	46.00	18.40	QP



# 5. TEST SETUP PHOTO

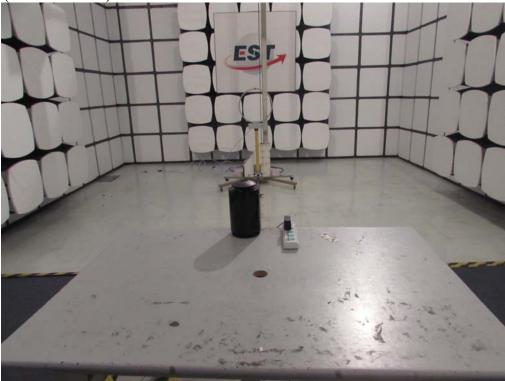
# Conducted Test





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Radiated Test (9 kHz-30 MHz)



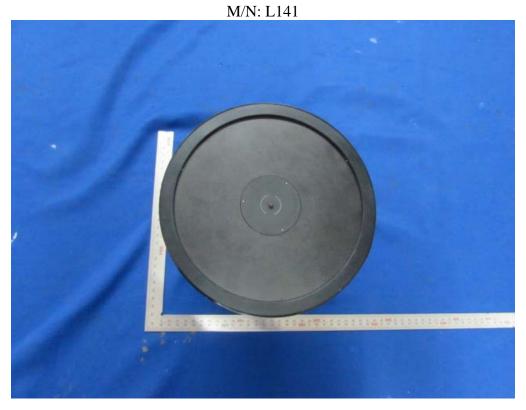
# Radiated Test (30-1000 MHz)



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# 6. PHOTOS OF EUT

**External Photos** 





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# **External Photos**

M/N: L141

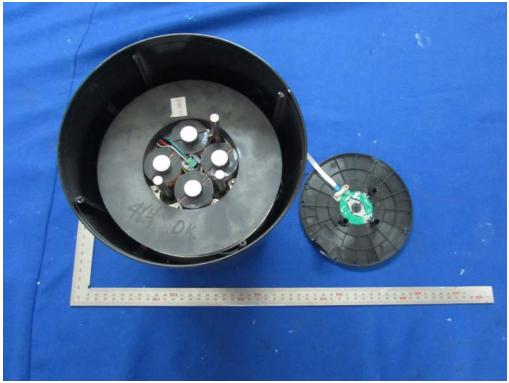


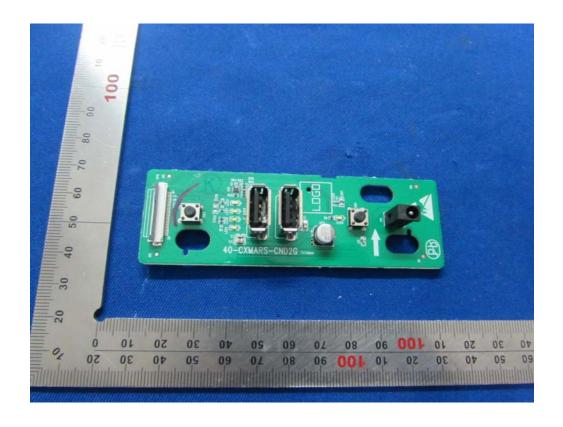


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**Internal Photos** 

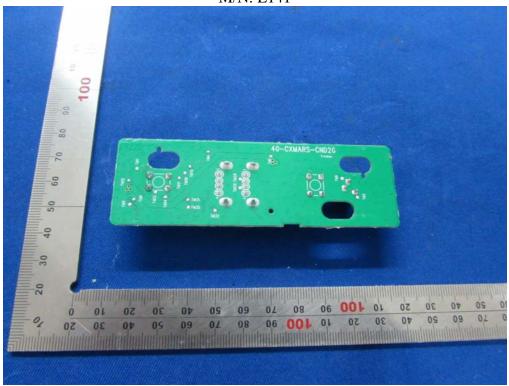
M/N: L141





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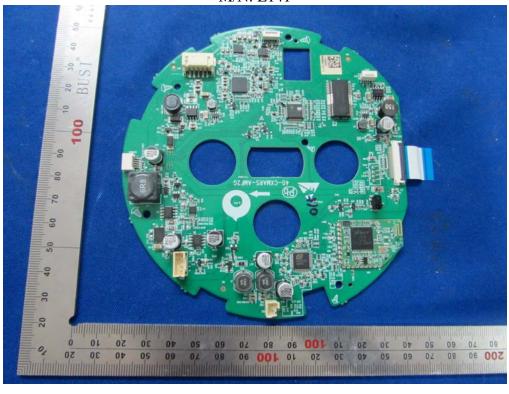
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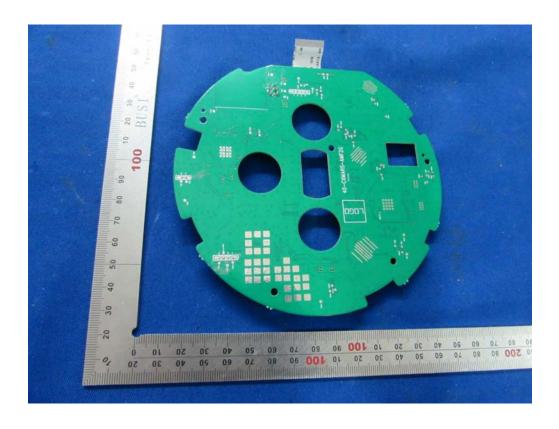




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M/N: L141





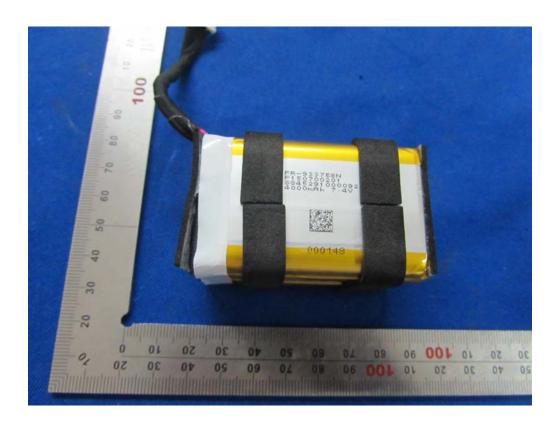
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M/N: L141



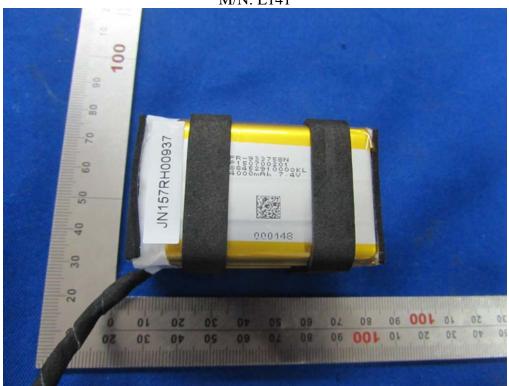
5.8G Antenna

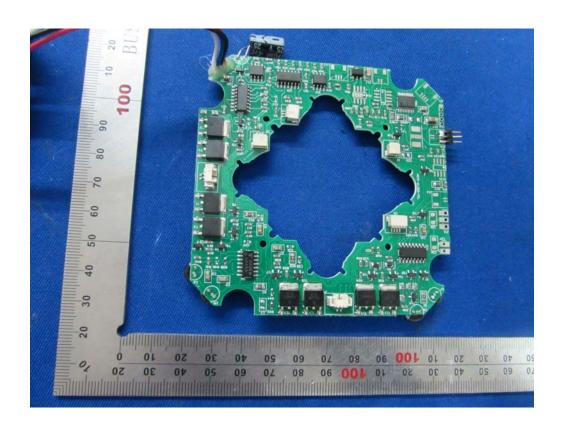




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M/N: L141

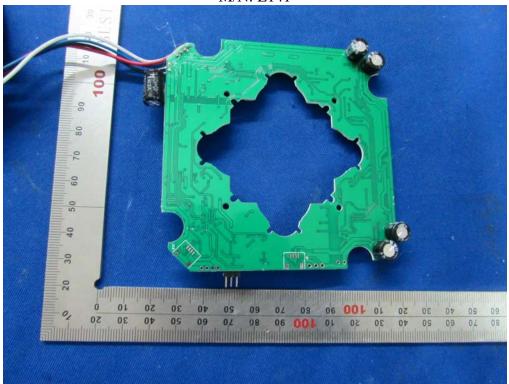


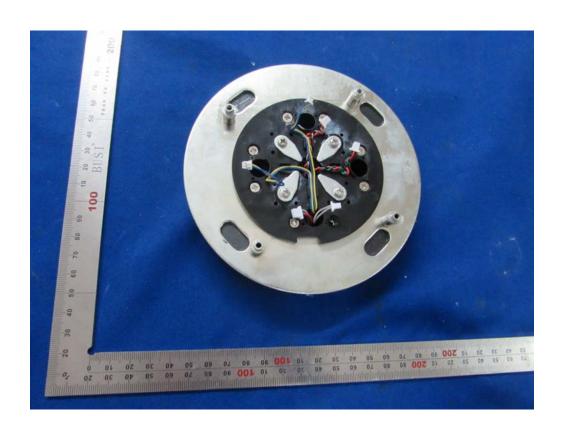




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M/N: L141

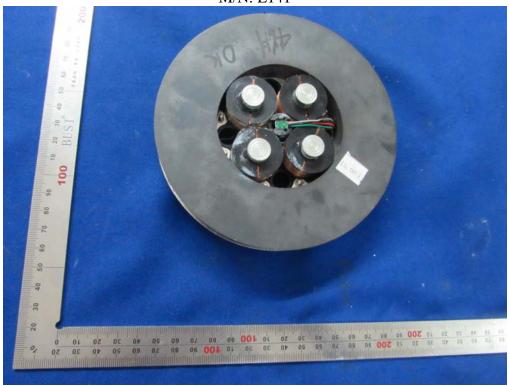


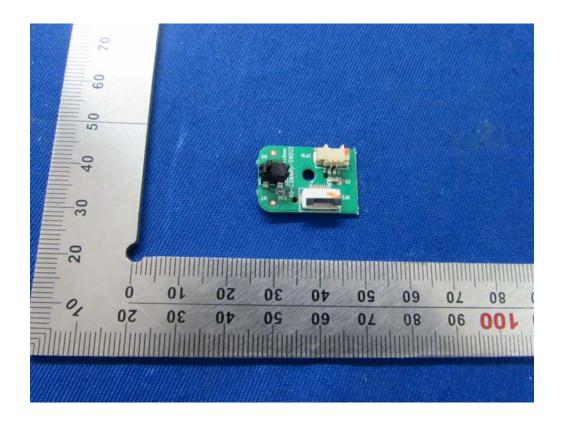


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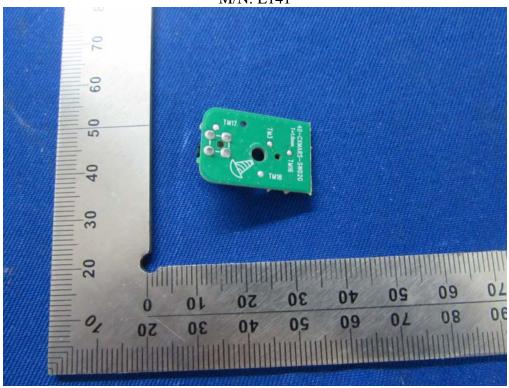
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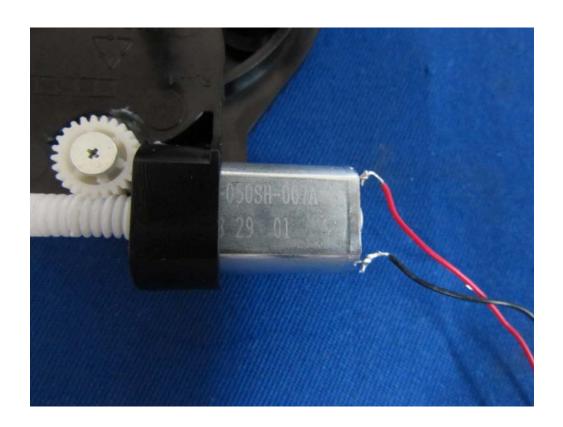




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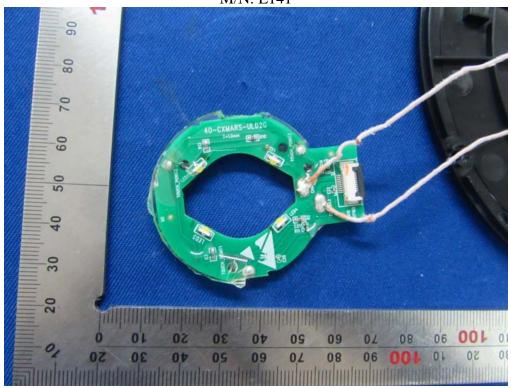
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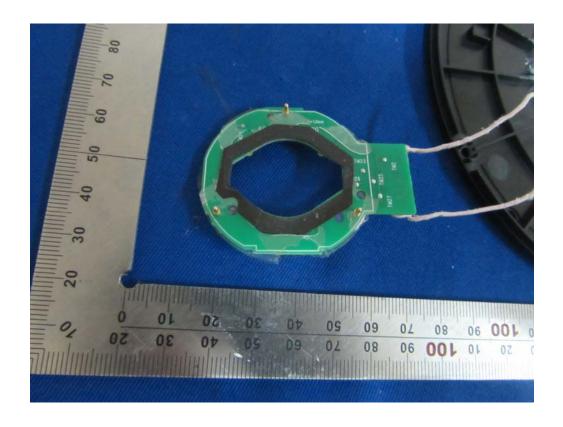




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M/N: L141

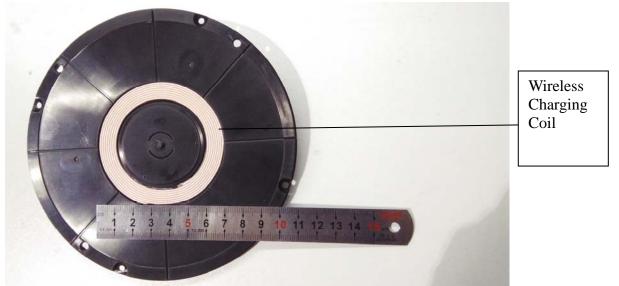




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# **Adapter Photos**







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