

Applicant: TOY'LI SAS

Product: TOY'LI SPEAKER

Model No.: JT-LISK01

Trademark: TOY'LI

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tang

Manager

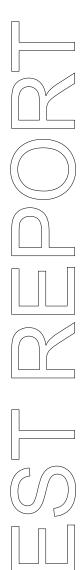
Dated: April 07, 2023

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

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

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



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## **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 17025:2017 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 744189

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.: 744189.

## Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

## **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

Date: 2023-04-07



# Test Report Conclusion

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

## 1.2 Applicant Details

Applicant: TOY'LI SAS

Address: 229 RUE SAINT HONORÉ 75001 PARIS FRANCE

Telephone: 87091115

Fax: --

## 1.3 Description of EUT

Product: TOY'LI SPEAKER

Manufacturer: TOY'LI SAS

Address: 229 RUE SAINT HONORÉ 75001 PARIS FRANCE

Trademark: TOY'LI Model Number: JT-LISK01

Additional Model Name N/A

Rating: DC5V, 1A

Battery: DC3.7V, 2000mAh Li-ion battery
Modulation Type: GFSK, JI/4DQPSK for Bluetooth

Operation Frequency: 2402-2480MHz

Channel Number: 79
Channel Separation: 1MHz

Hardware Version: GT2303-021/NFCPLY V1.0 Software Version: GT2303-021/NFCPLY V1.0

Serial No.: N/A

Antenna Designation PCB antenna with gain -0.58dBi Max (Get from the antenna specification)

#### 1.4 Submitted Sample: 1 Sample

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#### 1.5 Test Duration

2023-03-17 to 2023-04-07

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

## 2.2 Automation Test Software

#### For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

## For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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#### 3.0 Technical Details

## 3.1 Summary of test results

The EUT has	been teste	d according	to the f	following	specifications:
	~~~~		,		000000000000000000000000000000000000000

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
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	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, ANSI C63.4:2014 and ANSI C63.10:2013

#### 4.0 EUT Modification

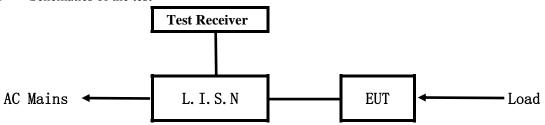
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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#### 5.0 Power Line Conducted Emission Test

#### 5.1 Schematics of the test

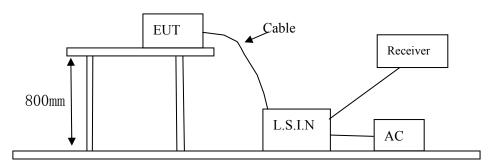


**EUT: Equipment Under Test** 

## 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.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



## 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

79 channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID	
TOY'LI SPEAKER	TOY'LI SAS	JT-LISK01	2BANS-JT-LISK01	

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#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

## C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A;
			Output: DC5V, 2A

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 15.207

Frequency	Limits (dB µ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes:

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

#### 5.6 Test Results:

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

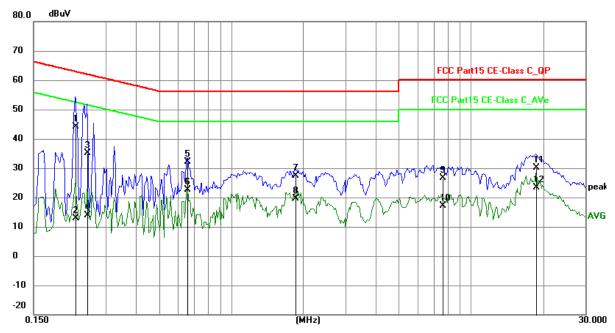
## **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2241	34.28	9.75	44.03	62.67	-18.64	QP	Р
2	0.2241	3.23	9.75	12.98	52.67	-39.69	AVG	Р
3	0.2514	25.32	9.75	35.07	61.71	-26.64	QP	Р
4	0.2514	4.12	9.75	13.87	51.71	-37.84	AVG	Р
5	0.6570	22.44	9.78	32.22	56.00	-23.78	QP	Р
6	0.6570	12.93	9.78	22.71	46.00	-23.29	AVG	Р
7	1.8543	17.59	9.80	27.39	56.00	-28.61	QP	Р
8	1.8543	9.93	9.80	19.73	46.00	-26.27	AVG	Р
9	7.6410	16.51	10.04	26.55	60.00	-33.45	QP	Р
10	7.6410	7.12	10.04	17.16	50.00	-32.84	AVG	Р
11	18.6351	19.65	10.60	30.25	60.00	-29.75	QP	Р
12	18.6351	12.73	10.60	23.33	50.00	-26.67	AVG	Р

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

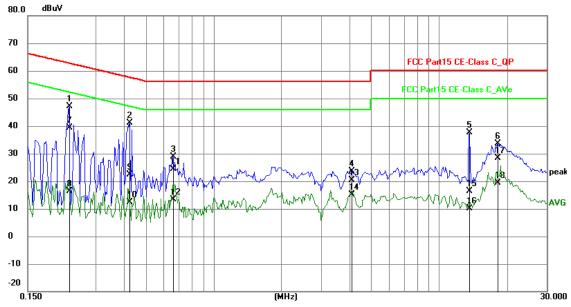
## **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2280	37.32	9.75	47.07	62.52	-15.45	peak	Р
2	0.4230	31.26	9.76	41.02	57.39	-16.37	peak	Р
3	0.6609	19.13	9.78	28.91	56.00	-27.09	peak	Р
4	4.1076	13.76	9.89	23.65	56.00	-32.35	peak	Р
5	13.5612	27.27	10.32	37.59	60.00	-22.41	peak	Р
6	18.1398	23.08	10.57	33.65	60.00	-26.35	peak	Р
7	0.2280	29.58	9.75	39.33	62.52	-23.19	QP	Р
8	0.2280	6.63	9.75	16.38	52.52	-36.14	AVG	Р
9	0.4230	12.62	9.76	22.38	57.39	-35.01	QP	Р
10	0.4230	2.52	9.76	12.28	47.39	-35.11	AVG	Р
11	0.6609	14.63	9.78	24.41	56.00	-31.59	QP	Р
12	0.6609	3.48	9.78	13.26	46.00	-32.74	AVG	Р
13	4.1076	10.43	9.89	20.32	56.00	-35.68	QP	Р
14	4.1076	5.18	9.89	15.07	46.00	-30.93	AVG	Р
	<b>I</b>	1			<b>1</b>			
15	13.5612	6.05	10.32	16.37	60.00	-43.63	QP	Р
16	13.5612	-0.23	10.32	10.09	50.00	-39.91	AVG	Р
17	18.1398	17.90	10.57	28.47	60.00	-31.53	QP	Р
18	18.1398	8.69	10.57	19.26	50.00	-30.74	AVG	Р

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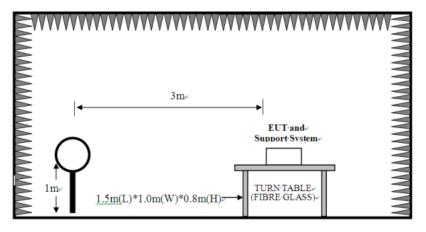


#### **6** Radiated Emission Test

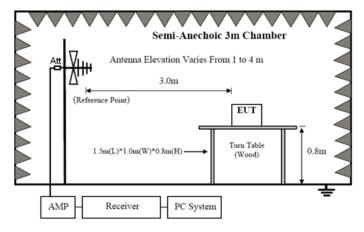
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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 25 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, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). 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**

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



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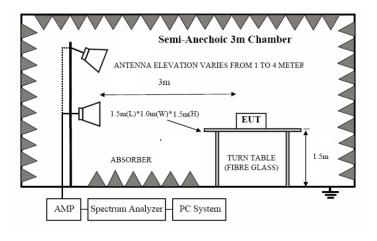
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For radiated emissions above 1GHz



- 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.
- 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

Ī	Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)			
	(MHz)	mV/m	dBu	V/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.

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

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. The two modulation modes of GFSK and Pi/4D-QPSKwere tested. And only the worst case was recorded in the test report. GFSK was the worst case.
- 6. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 7. Battery fully charged was used during the test.

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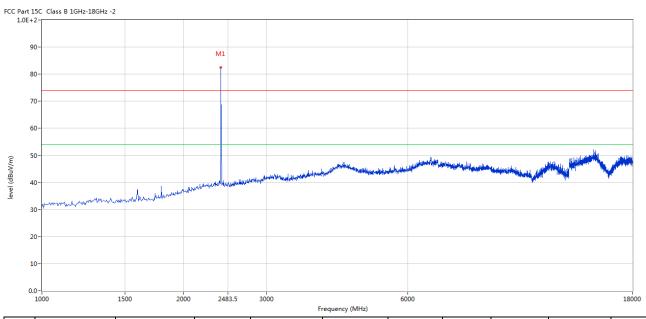
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#### 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

#### Horizontal



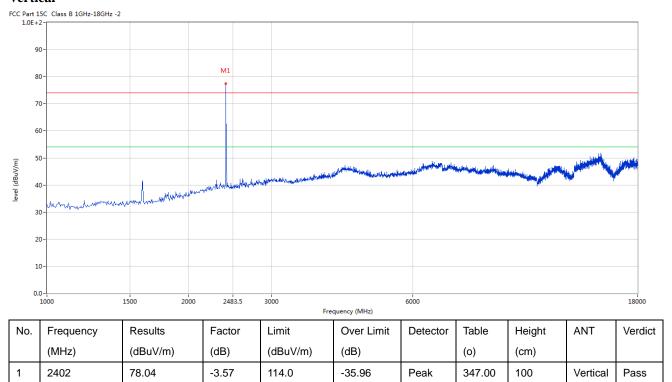
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	82.94	-3.57	114.0	-31.06	Peak	98.00	100	Horizontal	Pass

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## Vertical



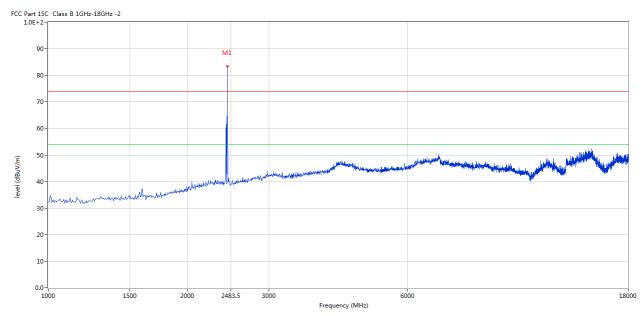
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



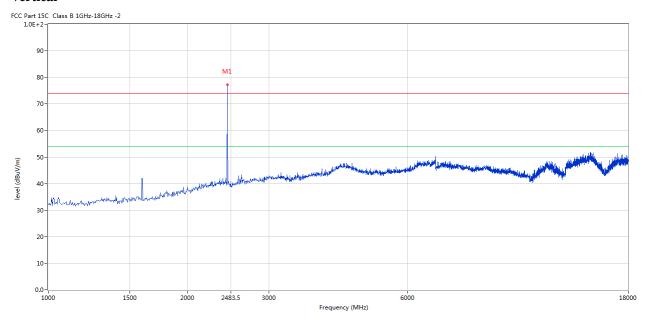
١	٧o.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2441	83.45	-3.57	114.0	-30.55	Peak	123.00	100	Horizontal	Pass

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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	77.27	-3.57	114.0	-36.73	Peak	348.00	100	Vertical	Pass

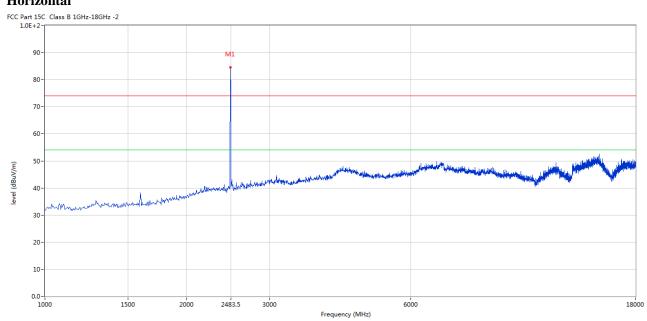
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



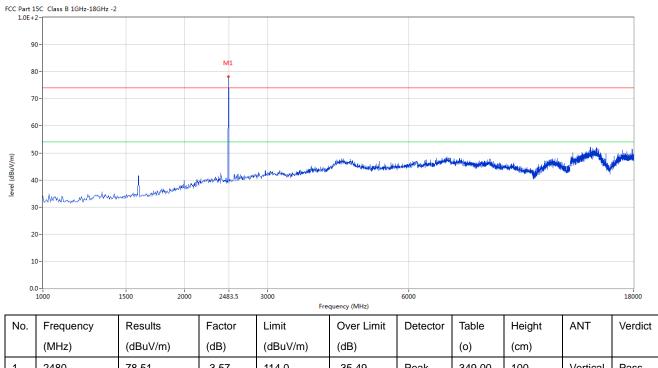
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	84.53	-3.57	114.0	-29.47	Peak	105.00	100	Horizontal	Pass

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#### Vertical



No	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	78.51	-3.57	114.0	-35.49	Peak	349.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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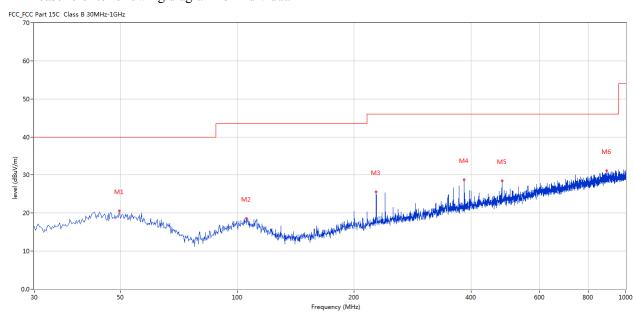


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	49.638	20.54	-11.32	40.0	-19.46	Peak	343.00	100	Horizontal	Pass
2	105.641	18.62	-13.27	43.5	-24.88	Peak	220.00	100	Horizontal	Pass
3	227.831	25.54	-12.78	46.0	-20.46	Peak	59.00	100	Horizontal	Pass
4	383.962	28.79	-9.16	46.0	-17.21	Peak	305.00	100	Horizontal	Pass
5	479.968	28.45	-7.40	46.0	-17.55	Peak	93.00	100	Horizontal	Pass
6	893.569	31.12	-1.90	46.0	-14.88	Peak	258.00	100	Horizontal	Pass

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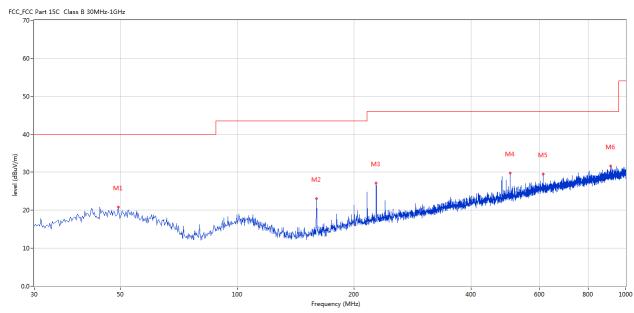


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	49.395	20.83	-11.28	40.0	-19.17	Peak	159.00	100	Vertical	Pass
2	159.948	23.13	-16.36	43.5	-20.37	Peak	46.00	100	Vertical	Pass
3	227.831	27.13	-12.78	46.0	-18.87	Peak	122.00	100	Vertical	Pass
4	503.969	29.80	-7.05	46.0	-16.20	Peak	358.00	100	Vertical	Pass
5	612.097	29.55	-5.11	46.0	-16.45	Peak	295.00	100	Vertical	Pass
6	914.904	31.66	-1.75	46.0	-14.34	Peak	247.00	100	Vertical	Pass

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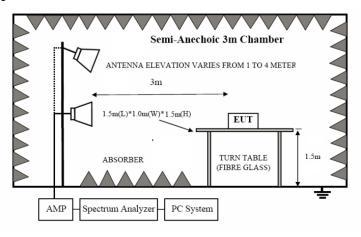


### 7. Band Edge

#### 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. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (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.

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

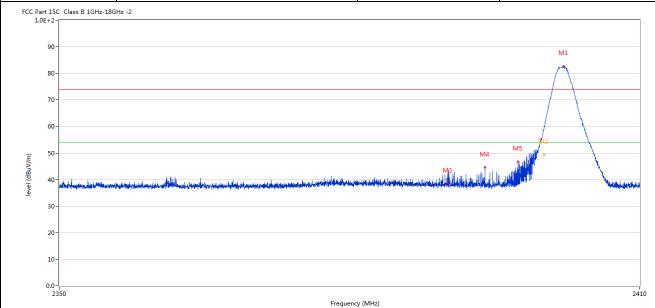
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#### 7.6 Test Result

Product:	TOY'LI SPEAKER	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.022	82.76	-3.57	74.0	8.76	Peak	98.00	100	Horizontal	N/A
2	2400.000	59.32	-3.57	74.0	-14.68	Peak	36.00	100	Horizontal	Pass
2**	2400.000	49.29	-3.57	54.0	-4.71	AV	36.00	100	Horizontal	Pass
3	2390.000	38.27	-3.53	74.0	-35.73	Peak	142.00	100	Horizontal	Pass
4	2393.834	44.56	-3.54	74.0	-29.44	Peak	122.00	100	Horizontal	Pass
5	2397.313	46.80	-3.56	74.0	-27.20	Peak	36.00	100	Horizontal	Pass

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0.0-



	Product:  Mode		TOY'LI SPEAKER	Detector	Vertical						
			Keeping Transmitting	Test Voltage	DC3.7V						
Те	mperat	ure	24 deg. C, Humidity		56% RH						
Te	est Resi	ılt:	Pass								
	90- 80- 70-	1 1GHz-18GHz -2		M4 M5	M1						
level (dBuV/m)	50 - 40 -										
	20-										

Frequency (MHz) No. Frequency Results Factor Limit Over Limit Detector Table Height ANT Verdict (dB) (dBuV/m) (MHz) (dBuV/m) (dB) (cm) (o) 2401.677 77.58 -3.57 74.0 3.58 Peak 183.00 100 Vertical N/A 1 2 2400.000 54.22 -3.57 74.0 -19.78 Peak 193.14 100 Vertical Pass 2\*\* 2400.000 44.18 -3.57 54.0 -9.82 ΑV 193.14 100 Vertical Pass Pass 3 39.54 -3.53 74.0 -34.46 174.33 100 2390.000 Peak Vertical 4 2390.490 51.80 -3.53 74.0 Peak 117.00 100 -22.20 Vertical Pass 5 2395.619 50.26 -3.55 74.0 -23.74 Peak 123.00 100 Vertical **Pass** 

2410

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]	Product:		TOY'	LI SPEAKE	R		Polari	ty	Horizonta		
	Mode		Keepin	ng Transmitti	ing Test Voltage				DC3.7V		
Те	mperature		2	4 deg. C,	Humidity			ity	56% RH		
Τe	est Result:			Pass							
	t 15C Class B 1GHz-18G E+2-	Hz -2				•					
	90-		М	1							
	80-										
	70-		$\overline{}$								
	60-		<del></del>	MA N	12						
(m//n	50-	الأنسانية المارات المراد	WW	W	2					h 1	
evel (dBuV/m)				***************************************	2		of the state of th	the state of the s	hala arabayaya bila ayayab daga	al market	
level (dBuV/m)	50-				Land Market	a destructivado adade			taka mpakapapatah kacampahikan	alfred diparative	
level (dBuV/m)	50- 40-			Who the second	Constitution of the second		of the second second		talis eribita piga talis di masa akilikadi	alimetal paritine	
level (dBuV/m)	30- 20-			Wh. (1)	And the state of t	n.delpiinibedinidede	i jangangan kang dan	and the state of t	delig andersproprietal secure delicar	alfred al parist an	
	50 - 40			Who to	The world Highlight	n derleit, i berkeit geberen.	المراقبة ا	a paragraphy de la para	right, eighte gaige ann de gann an de gan	alimbilipa di un	
level (dBuV/m)	30- 20-			24	33.5 Frequency (MHz)	n derhiin ibadh adaden	ng ing pangangga kalipat di dinang	ing willipid de la Maria (Maria (Mari	ight and appropriated access to the s	250	
	30 - 20 -	Results	Factor	Limit 24	33.5	Detector	Table	Height	ANT		
	30 - 20 - 10 - 2470		Factor (dB)	1	33.5 Frequency (MHz)						
	50- 40- 30- 20- 10- 2470	Results		Limit	33.5 Frequency (MHz)		Table	Height		2500 Verdid	

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	Product:			101	'LI SPEAKI	∃R		Detecto	or	Vertical	
	Mode			Keepii	ng Transmitt	ting		Test Volt	DC3.7V		
Te	mperature			2		Humidi	ty	56% F	CH.		
Te	est Result:				Pass						
	rt 15C Class B 1GH	:-18GHz -2	2						•		
	90-										
	80-			M1							
	70-										
	60-										
	00-										
(E)/	50-		a fi		M. M.	2					
level (dbuV/m)	50-				M		ditioning of policy and		eschool de la		
level (dBuV/m)	50-				M		dilianiyadi, jirdeniada	not have better the	escappy for displaying the last high		Maril Marilda
level (dBuV/m)	50-	Hilland La	had and a delighted		M	2 Mahaguwalahlahlahlah albaha	والمارية المرادية والمرادية والمرادية والمرادية والمرادية والمرادية والمرادية والمرادية والمرادية والمرادية وا	and him to the soler	eradychologia Mahadi	t de arrecte des des des de la des	(Michaella)
level (dBuV/m)	50- 40- 30-				M	2	المفارسة والمساورة المساورة والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة والمساورة وا	riddinis de de notae	or shipped and the had the h	d de la constituta de la c	and the
level (dBuV/m)	50- 40- 30- 20- 10-				M. M.		dilimiyadi, du bakada	nadelliers de let adea ceden	escape produce positive de la decentración de la decentración de la decentración de la decentración de la dece		
(m/\ng) level	50- 40- 30- 20- 10-				248		dilimiyaliyibadigida		or shipped a political ball to be		2500
	50- 40- 30- 20- 10-		Results	Factor	248 Limit	3.5	Detector	Table	Height	ANT	
	50- 40- 30- 20- 10- 2470			Factor (dB)	1	3.5 Frequency (MHz)					2500
(m/Ngp) level	50- 40- 30- 20- 10- 0.0- 2470	′	Results		Limit	3.5 Frequency (MHz)		Table	Height		2500

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

2. For Restricted band test, the two modulation modes of GFSK, Pi/4D-QPSKwere tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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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 PCB antenna. The antenna gain is -0.58dBi Max. It fulfills the requirement of this section. Test Result: Pass

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GFSK										
Product:	TOY	'LI SPEAI	KER		Те	est Mode:	Keep transmitting			
Mode		ng Transm			Те	st Voltage				
Temperature		24 deg. C,				Humidity	56% RH			
Test Result:	Pass							PK		
20dB Bandwidth										
$\triangle$	Delta	1 [T1]		RI	BW	30 k	Hz I	RF Att	20 dE	3
Ref Lvl			.43 dB		BW	100 k				
10 dBm		1.028056	511 MHz	SI	TW	8.5 m	s (	Jnit	dE	3m
10						<b>v</b> <sub>1</sub>	[T1]	_10	3.74 dE	lm
			2			Τ.	[11]	2.40152		A
0			Ž.	~ ^		<u> 1</u>	[T1]	(	1.43 dE	
			/ 0 00	7/	$\overline{}$			1.02805	611 MH	z
-10			$\mathcal{N}$		_	$\nabla_2$	[T1]	(	.28 dE	
			/			v\		2.40187	675 GH	Z
-20 <del>-D1 -19.72</del>	dBm	<b>→ / /</b>				Mr.				
1MAX							1			1M
-30		ſ				V	V			
	$\sim$						Y			
4.0							\			
-40	M						,			
-50										
									-May	~
-60										
-70										
-80										
-90										
Center 2.40	2 GHz		300	kHz/				Spa	an 3 MH	z

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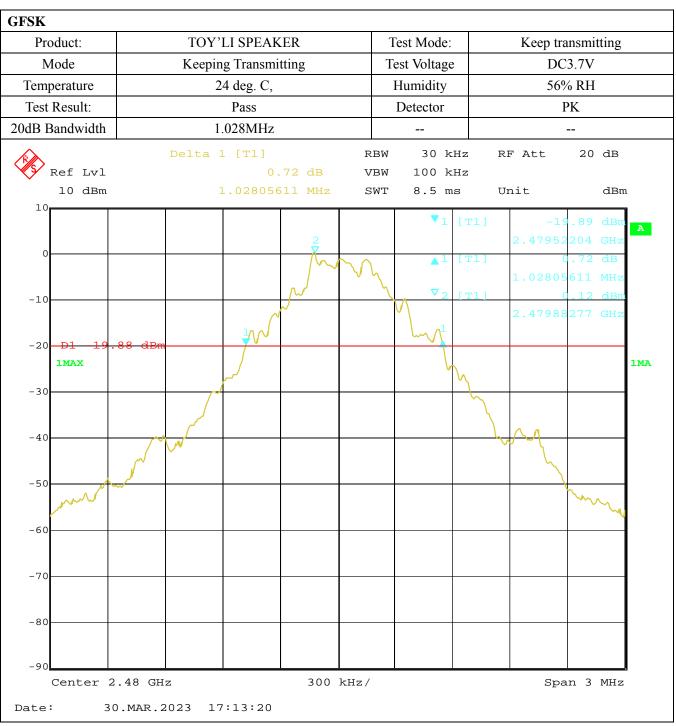


FSK		TO 171	LIODEAT	·FD		T /3.5 1		т,		.,,.	
Product:			LI SPEAK			Test Mode		DC3.7V			
Mode			g Transmi	ttıng		Test Voltag					
Temperature	24 deg. C,					Humidity		56% RH			
Test Result:			Pass			Detector		PK			
0dB Bandwidth	1.022MHz										
<b>1</b>		Delta 1	[T1]		RBI	W 30	kHz	RF At	t 20	dB	
Ref Lvl				02 dB	VBI						
10 dBm			L.022044	109 MHz	SW	г 8.5	ms	Unit		dBm	
						▼:	L [T1]		-19.63	dBm	A
				2 <b>V</b>				2.4	4052204	GHz	
0				1	$\sim$	<u> </u>	[T1]		1.02		
				/	, ,	▽.	2 [T1]	1.0	2204 <mark>409</mark>		
-10				/ -		<b>V</b>		2.4	4087675	0.2	
			<u></u>					2.1		J112	
-20	56 dBm		70*			- W V/					
1MAX			کہ				$\mathcal{M}_{\mathcal{N}}$				1M2
-30		$\sim$	/				+				
							4				
-40									\		
-50									hay	my	
-60											
-70											
-80											
-90 Center 2	.441 GI	Hz		300	kHz/				Span 3	MHz	
Date: 30	).MAR.2		:04:09								

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Л/ <b>4D</b>	QPSK											
P	roduct:		TOY	LI SPEAI	KER		]	Test Mode:		Keep tran	smitting	
	Mode		Keepi	ng Transm	itting		Τ	est Voltage	DC3.7V			
Ten	nperature			24 deg. C,				Humidity	56% RH			
Tes	st Result:			Pass				Detector		PK		
20dB	Bandwidtl	h	1	.287 MHz								
Ŕ	<u> </u>		Marker	1 [T1 n	ndB]	R	BW	30 k	Hz RI	7 Att	20 dB	
<b>V</b> \$/	Ref Lvl		ndB		00 dB		BW				_	
10	10 dBm		BW 1	L.286573	315 MHz	S	WT	8.5 m	s Ur	nit	dBn	n =1
								$\mathbf{v}_1$	[T1]	C	.32 dBm	A
0					1					2.40187	675 GHz	
					/\ /	۸		ndH		20	.00 dB	
1.0				~~~	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\bigvee$	$\bigvee$	BW DW	[T1]	1.28657 -19	315 MHz	
-10								\ \	\	2.40140		
			Ţ	<i>}</i> ~′				$ abla_{\mathrm{T}_{2}}$	T21]	-19	.74 dBm	1
-20	1MAX		ſ							2.40269	439 GHz	1MA
-30									$\sim$			
		$\wedge$							\	~~ ~		
-40	\	<b>√</b>	<u> </u>							, IV	~~\	
	$\sim$										V	
-50	`											
-60												-
-70												-
-80												
-90												
	Center	2.402 G	Hz		300	kHz/				Spa	n 3 MHz	:
Date	: 3	30.MAR.2	2023 18	:00:18								

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I/4DQPSK									
Product:	TOY'	LI SPEAK	ER	7	Test Mode:		Keep transmitting		
Mode	Keepir	Т	est Voltage	DC3.7V					
Temperature	2	24 deg. C,			Humidity	56% RH			
Test Result:	Pass				Detector		PK		
0dB Bandwidth	1	.281MHz							
r)	Marker	RBW	30 k	Hz Rl	F Att	20 dB			
Ref Lvl	ndB	20.	00 dB	VBW	100 k	Hz			
10 dBm	BW	1.280561	12 MHz	SWT	8.5 m	s Uı	nit	dBm	n
10					<b>v</b> <sub>1</sub>	[T1]	(	.49 dBm	A
			1				2.44087	675 GHz	
0			^ /	$\wedge$	ndE	3	20	0.00 dB	i
		~~~	\	M	W BW		1.28056		
-10			(,,		· \	[T1]	-19	.64 dBm	Ì
		12 <sup>-</sup>			$ abla_{\mathrm{T}^{2}}$	<u>(1</u> 2-1)	-19		
-20		Ÿ				<u></u>	2.44168	8838 GHz	
1MAX									1M
-30						<del>\</del>			
						,	m	.~	
-40	<del>- V</del>							*** V	
-50									
-60									
-70									
-80									
-90 Center 2.	441 GHz		300	kHz/			Spa	an 3 MHz	ļ
Date: 30.	.MAR.2023 17						_		

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Л/4DQPSK						
Product:	TOY'LI SPEAK	ER	Test Mode:	Keep transmitting		
Mode	Keeping Transmit	ting	Test Voltage	DC3.7V 56% RH		
Temperature	24 deg. C,		Humidity			
Test Result:	Pass		Detector	F	PK	
20dB Bandwidth	1.299MHz					
	Marker 1 [T1 n		RBW 30 kH		20 dB	
Ref Lvl 10 dBm	ndB 20. BW 1.298597		VBW 100 kH SWT 8.5 ms		dBm	
10			<b>v</b> <sub>1</sub> [	T1] 0	.14 dBm	
		1		2.47987		
0		A A	ndB	20	.00 dB	
1.0	~~	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BW N	1.29859 [T1] -19	719 MHz	
-10				2.47937	776 GHz	
-20	TI		∇ <sub>T2</sub>	[2r1] -19 <b>V</b>	.85 dBm	
1MAX				2.48067	635 GHz	
-30	~~~				<u> </u>	
-40	\rd \rangle \rightarrow \right			V *\	<del>√~</del> ~	
-50						
-60						
-70						
20						
-80						
-90 Center 2.4	8 GHz	300 kHz,	,	Spa	n 3 MHz	
Date: 30.M	MAR.2023 17:33:08					

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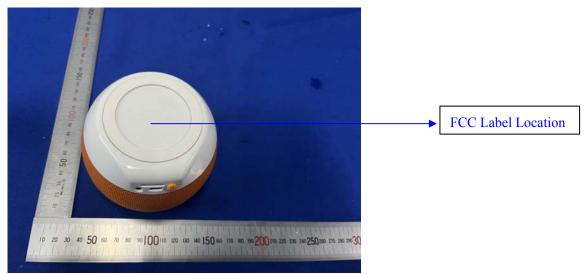


#### 10.0 FCC ID Label

#### FCC ID: 2BANS-JT-LISK01

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



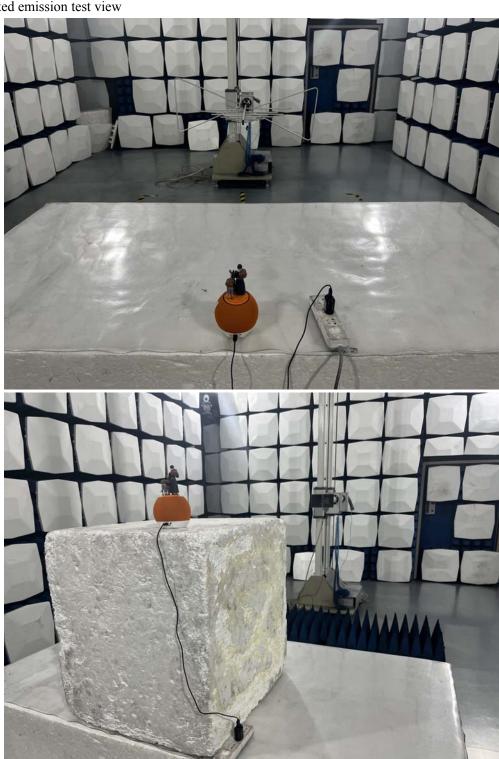
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## Radiated emission test view



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

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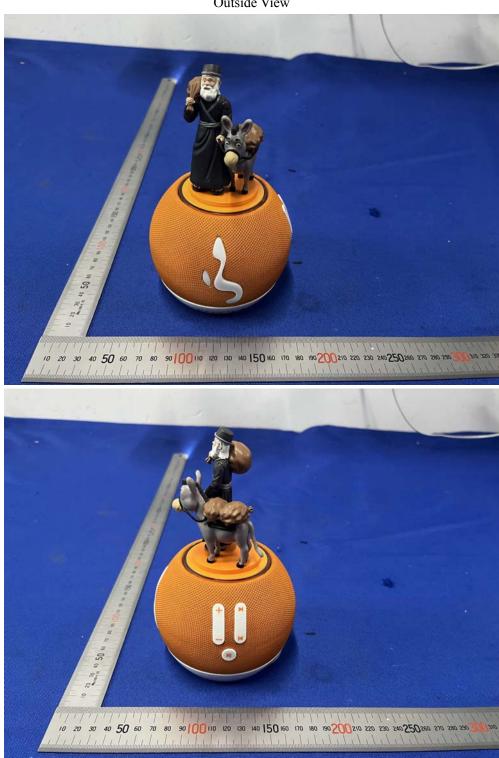
Report No.: TW2303261-01E

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## 11.2 Photographs – EUT

## Outside View



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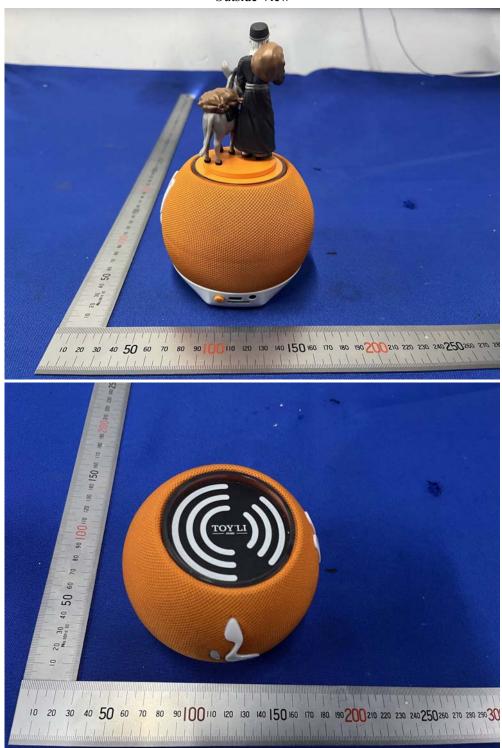
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Outside View



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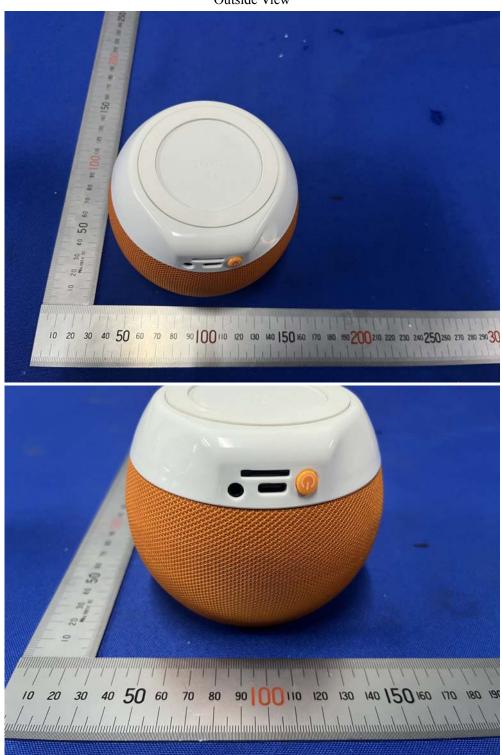
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Outside View



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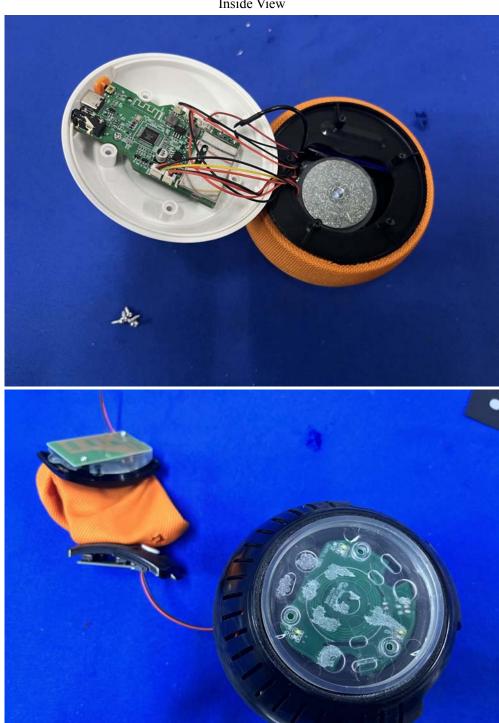
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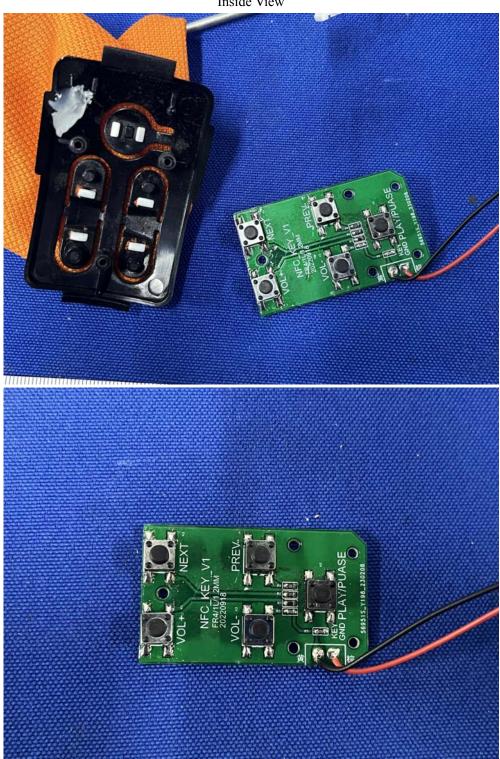
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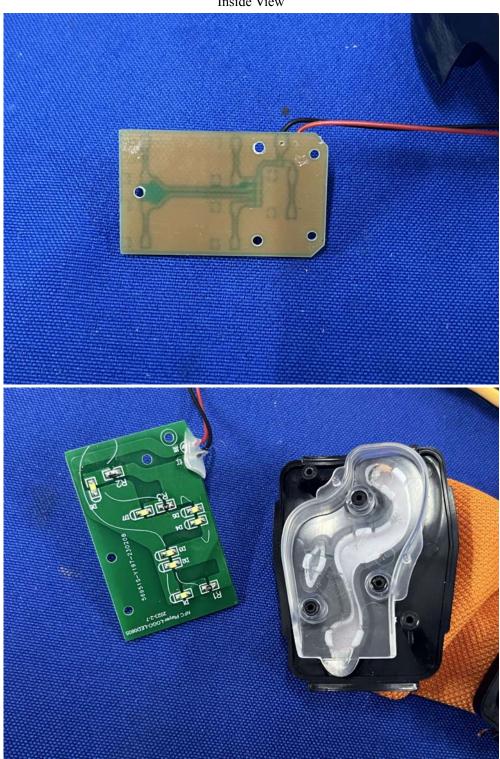
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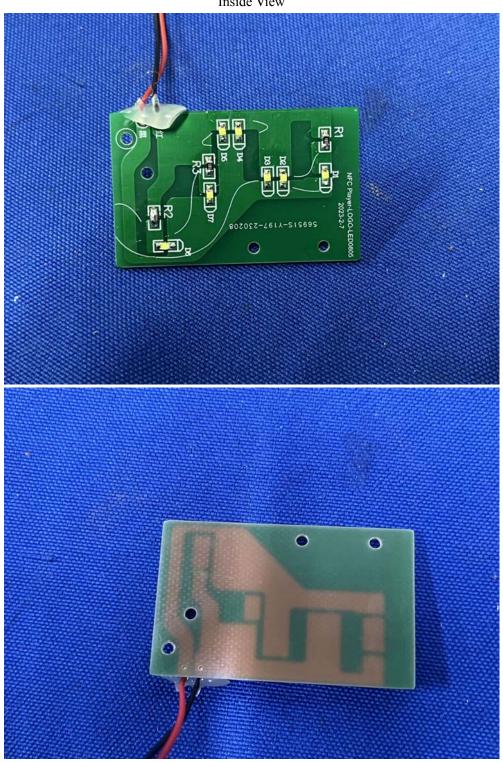
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Inside View



-- End of the report--