



Report No.: TW2104165E File reference No.: 2021-04-19

Applicant: LEADER PREMIUMS LTD.

Product: Speaker

Model No.: AE0187

Brand Name: N/A

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

Jack Chung

Jack Chung

Manager

Dated: April 19, 2021

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 17025:2005 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

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Test Report Conclusion

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

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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: LEADER PREMIUMS LTD.

Address: 9/F., Hengfu Mansion, NO.858. Fuming Road, Ningbo, China

Telephone: -Fax: --

1.3 Description of EUT

Product: Speaker

Manufacturer: LEADER PREMIUMS LTD.

Address: 9/F., Hengfu Mansion, NO.858. Fuming Road, Ningbo, China

Brand Name: N/A
Model Number: AE0187
Additional Model Name N/A

Hardware Version: Bluetooth speaker-AE0187

Software Version: leader.2021.03

Serial No.: AE0187

Rating: DC5V, 1A or Built-in DC3.7V, 200mAh Li-ion battery

Modulation Type: GFSK, Pi/4D-QPSK, 8DPSK (Bluetooth)

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain 2.0dBi Max (Get from the antenna specification

provided by the applicant)

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2021-04-12 to 2021-04-19

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

Terry Tang

The sample tested by

Print Name: Terry Tang

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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	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2020-07-06	2021-07-05
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2020-06-23	2021-06-22
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2020-01-07	2021-01-06

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 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	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

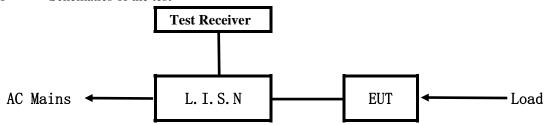
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

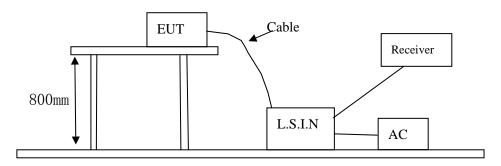


EUT: Equipment Under Test

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 C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Speaker	LEADER PREMIUMS LTD.	AE0187	2APYY-AE0187

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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

2 2 1								
Frequency	Limits (dB μ V)							
(MHz)	Quasi-peak Level	Average Lev 1						
0.15 ~ 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:

Pass

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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

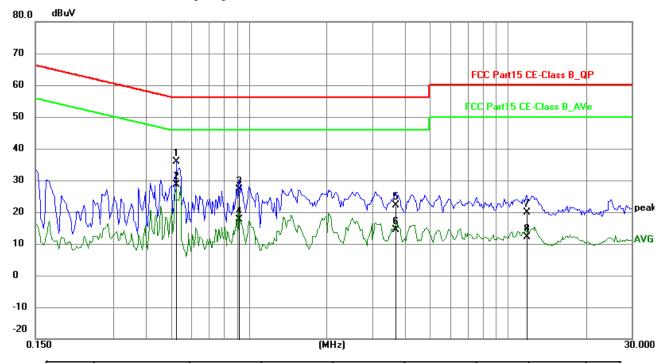
EUT set Condition: Charging and Communication by BT

Model: AE0187

Equipment Level: Class B

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	0.5243	26.11	9.77	35.88	56.00	-20.12	QP	Р
2	0.5243	18.85	9.77	28.62	46.00	-17.38	AVG	Р
3	0.9183	17.23	9.79	27.02	56.00	-28.98	QP	Р
4	0.9183	7.75	9.79	17.54	46.00	-28.46	AVG	Р
5	3.6903	12.18	9.87	22.05	56.00	-33.95	QP	Р
6	3.6903	4.42	9.87	14.29	46.00	-31.71	AVG	Р
7	11.7594	9.59	10.24	19.83	60.00	-40.17	QP	Р
8	11.7594	2.01	10.24	12.25	50.00	-37.75	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

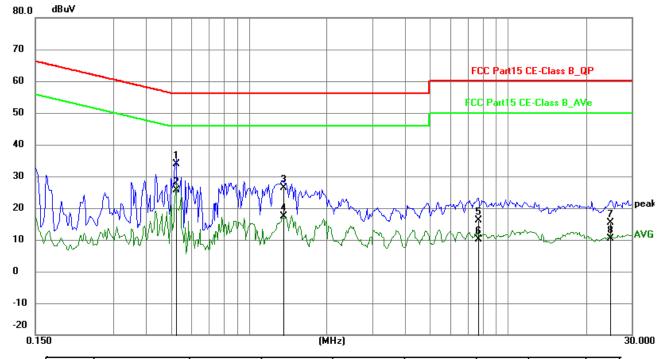
EUT set Condition: Charging and Communication by BT

Model: AE0187

Equipment Level: Class B

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	0.5243	24.21	9.77	33.98	56.00	-22.02	QP	Р
2	0.5243	15.95	9.77	25.72	46.00	-20.28	AVG	Р
3	1.3550	16.67	9.79	26.46	56.00	-29.54	QP	Р
4	1.3550	7.48	9.79	17.27	46.00	-28.73	AVG	Р
5	7.6839	6.20	10.04	16.24	60.00	-43.76	QP	Р
6	7.6839	0.17	10.04	10.21	50.00	-39.79	AVG	Р
7	24.8712	4.43	10.98	15.41	60.00	-44.59	QP	Р
8	24.8712	-0.59	10.98	10.39	50.00	-39.61	AVG	Р

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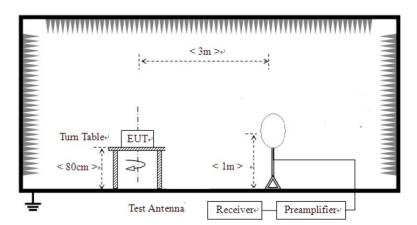


6 Radiated Emission Test

- 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



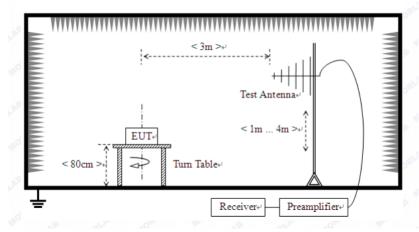
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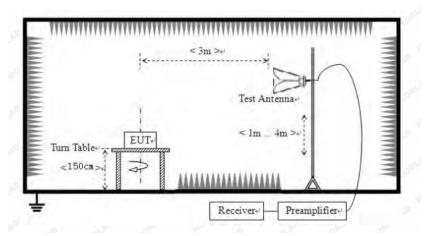
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For radiated emissions from 30MHz to1GHz



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.

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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	Field Strength of Fundamental (3m)			Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. 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.
- 5. 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.
- 6. Battery full charged during tests.
- 7. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were tested. And only the worst case was recorded in the test report. GFSK was the worst case.

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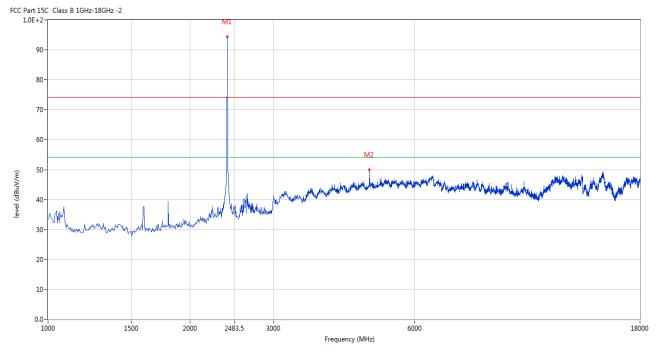


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



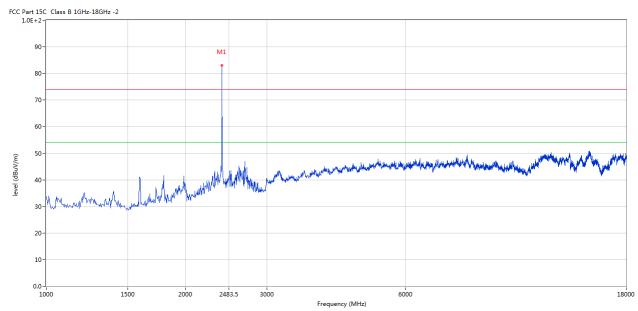
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	94.38	-3.57	114.0	-19.62	Peak	146.00	100	Horizontal	Pass
1*	2402.500	85.96	-3.57	94.0	-8.04	AV	146.00	100	Horizontal	Pass
2	4803.750	49.82	3.13	74.0	-24.18	Peak	328.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.500	83.11	-3.57	114.0	-30.89	Peak	54.00	100	Vertical	Pass

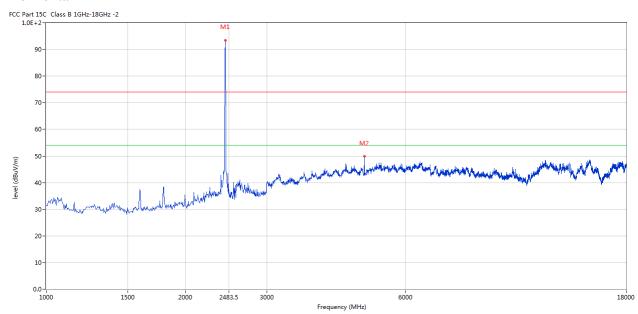
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



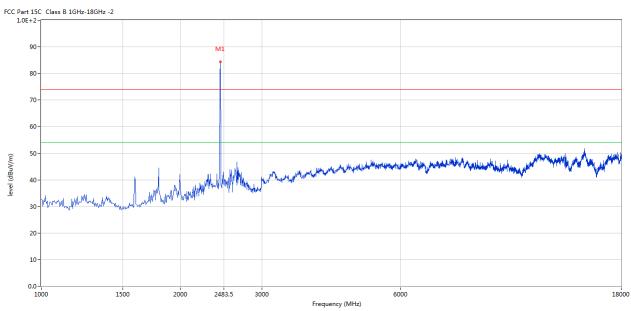
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	93.41	-3.57	114.0	-20.59	Peak	133.00	100	Horizontal	Pass
1*	2440.750	84.63	-3.57	94.0	-9.37	AV	133.00	100	Horizontal	Pass
2	4880.250	49.95	3.20	74.0	-24.05	Peak	127.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2440.750	84.34	-3.57	114.0	-29.66	Peak	204.00	100	Vertical	Pass

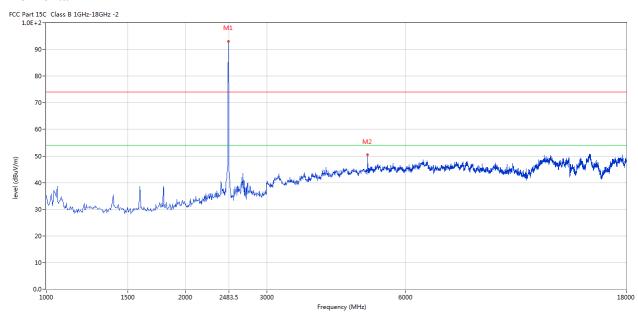
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



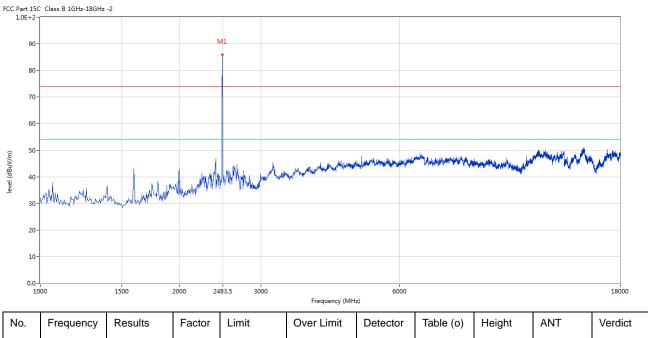
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	93.07	-3.57	114.0	-20.93	Peak	135.00	100	Horizontal	Pass
1*	2479.750	84.39	-3.57	94.0	-9.61	AV	135.00	100	Horizontal	Pass
2	4961.000	50.40	3.36	74.0	-23.60	Peak	126.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2479.750	85.95	-3.57	114.0	-28.05	Peak	88.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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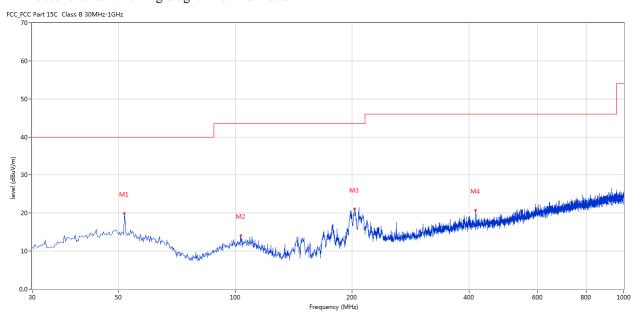


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	51.820	19.88	-11.42	40.0	-20.12	Peak	157.00	100	Horizontal	Pass
2	103.217	14.07	-13.37	43.5	-29.43	Peak	35.00	100	Horizontal	Pass
3	202.859	21.03	-13.42	43.5	-22.47	Peak	3.00	100	Horizontal	Pass
4	415.479	20.74	-8.29	46.0	-25.26	Peak	199.00	100	Horizontal	Pass

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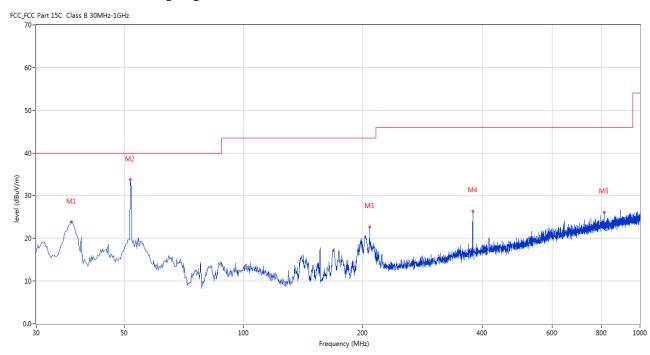


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	36.788	23.80	-13.31	40.0	-16.20	Peak	265.00	100	Vertical	Pass
2	51.820	33.69	-11.42	40.0	-6.31	Peak	115.00	100	Vertical	Pass
3	207.951	22.73	-13.69	43.5	-20.77	Peak	33.00	100	Vertical	Pass
4	378.628	26.39	-9.29	46.0	-19.61	Peak	355.00	200	Vertical	Pass
5	813.079	26.05	-2.95	46.0	-19.95	Peak	293.00	100	Vertical	Pass

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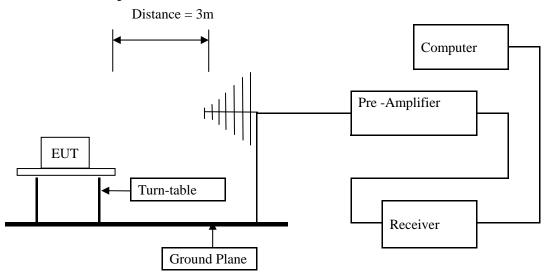


7. Band Edge

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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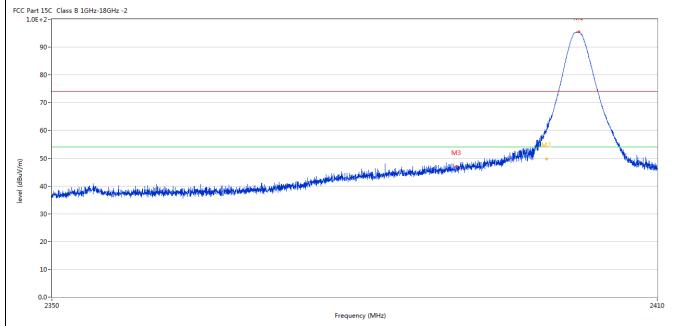
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7.6 Test Result

Product:	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 (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	2399.935	58.37	-3.57	74.0	-15.63	Peak	134.00	100	Horizontal	Pass
2**	2399.935	49.65	-3.57	54.0	-4.35	AV	134.00	100	Horizontal	Pass
3	2389.960	47.05	-3.53	74.0	-26.95	Peak	328.00	100	Horizontal	Pass

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2389.945

47.63

-3.53

74.0



Pre	oduct:		S	Speaker		Detect	tor	•	Vertical	
N	Mode		Keeping	g Transmitti	ng	Test Vol	tage]	DC3.7V	
Tem	perature		24	4 deg. C,		Humid	ity	5	56% RH	
Test	t Result:			Pass						
Part 15C 1.0E+2-	Class B 1GHz-18GHz	-2								
									M1	
90-									\wedge	
80-									$/ \setminus$	
70-										
								/		
								- 1	1	
60-										
50-								1 L Ukadina sa 1 -		
	والمرادية والمرادية المرادية المرادية	والمتعارض	المرابع المالية في بأريق ورا		t king dinang papal di balang sa saka		MANA	A CONTRACTOR OF THE PARTY OF TH		hadadiyada
			Hadding to Administration of the second		h de la			-		******draddgate
	hajpinduakon orisidad	of the description was bridge before the	Hadding to Andrew Spirity of an		h de la	istant proportion of the		Market Market State Control of the C		**************************************
50 - 40 -	tal all address to the	of the state of th	Kapadi, Adda Adda Adda Adda Adda Adda Adda Add		hall some over the sound	in the latest desired to the latest desired				^A mudinaddigaet fu
50- 40- 30- 20-	designatural designatura designatura designatura designatura designatura designatura designatura designatura d	of the distribution was brilly distribu	Handrah di			ishara kaliba dharibadha				^{Ay} madanddigaetha
50 - 40 -		of the Land of the Second Seco	Papatol distribution		h diperior productive panel			2		thadadiga dip
50- 40- 30- 20-	50	original de la constante de la	Handard Address Street		h de stande en productiva de la consta	inter to the territory of				
50 - 40 - 30 - 20 - 10 -	50	eriki darih pi danin sadanif danih	Parkatel Address		Frequency (MHz			•		
50- 40- 30- 20- 10- 0.0- 235	50 Frequency	Results	Factor	Limit	ecities annita e rua del ak ann		Table (o)	Height	ANT	2410
50- 40- 30- 20- 10- 0.0- 235		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)	Table (o)	Height (cm)		2410
50 - 40 - 30 - 20 - 10 -	Frequency				Frequency (MHz)	Table (o)			2410

-26.37

Peak

30.00

100

Vertical

Pass

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2**

2483.448

51.09

-3.57

54.0



]	Product:		S	Speaker		Polarit	ty		Horizontal	
	Mode		Keeping	g Transmitti	ng	Test Volt	tage		DC3.7V	
Te	mperature		24	l deg. C,		Humid	ity		56% RH	
Те	est Result:			Pass						
CC Part 1	15C Class B 1GHz-18GHz 2-	-2								
9 8 7	0-									
6	0-	ri della	y**		1					
_	o-	ALIE I BERTHAN			M2	de de la primer de la constante de la constant	Andrew or the following south	rladi meseshhilenggan	rijadishin dakin dakinda kalan dakinda	ng diplomatical and the second of the second
	0-	da la			M2 Andrew Hilliam	ditension properties de la	Makanjuan nghi jahu undun Dik	ria il masos differencia	الإنجار أيضاء فسلط فيساب بالإراباء	engallabagian open gada
(W/Anga dana)	0-	da la			M2	kilodespierių markditų k	Hidrateria de Appendio Del	ole de nebel de la la company	of pod, who, a delated a decimal to sign decipilate	inglikation-surple
5 5 4 4 3 3 2	0-	da d			M2	dikatai pirantun saskabbuda	Marwoly Hiperaluski	riadostalas diplonguas	rijori, kita, a delika da anas, ang kitagi d	teration are party
(E/Angg) (A/Angg) (A/		akilik di			M2	de la primer per mandala pla	nduning the control of the control o	min de meine displantagement	rjod, No. o delika de pares aprilació	indiportation
(W/\ngp) ja\ab		da la			2483.5 Frequency (MHz		ikkanwelugi fjapusaketak	riadina diplongue	of port, here, and the states of the first	2500
(w/nngp) lawai 3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	0-	Results	Factor	Limit	2483.5				ANT	2500
(m/nngp) 44 33 24 1.			Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz)	Table (o)	Height (cm)		

-2.91

ΑV

151.00

100

Pass

Horizontal

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F	Product:		S	Speaker		Detecto	or		Vertical	
	Mode		Keeping	g Transmitti	ng	Test Volt	age]	DC3.7V	
Tei	mperature		24	l deg. C,		Humidi	ity	4	56% RH	
Те	est Result:			Pass						
C Part 1:	.5C Class B 1GHz-18GHz 2-	-2								
90	0-									
80	0-									
70	0-									
			,	\						
60	0-		-/-							
	o-	and the state of t			No. of the last of	المراجع والمساعد المراجع المقار	alkada at Anna Ishamadi (hi	diamental and the second	al hataning a sambolika	المالية المستوادية
	o-	a de la girle de la constituir de la const			The state of the s	ndet krometerskrijder of believe	ilyanaharikan (L)	AND	Hoppisch and Andrea Hope	Haadqad Ayd A
	o-	and the state of t			The state of the s	and because the public of the later	ulyanadiyasidari (k.)	dilandra di deservizio di mandado		hipaniyad bayda
. 50		and the state of t			Maria Ma	nded by some days by substitute of the substitut	olypiaadopaidus (kylin	giblegade di karintal krew debu	illyddighlagygyd i dyddiglyga	kitaatiyadhigadhi
40		nder der die gestelle der der der der der der der der der de			The same of the sa	nde limme keeler plake de ligter	ilarian diplomatali	philippide de de de la companya de l	dephisologist and adapte	istendiralityilik
50 40 30 20					The state of the s	nded beroom beider gelichte der beider gel	ularina di padinimalia di	gilden general de la persona d		hisandhad faqila
30 20 10					2483.5 Frequency (MH:		iladaadi padamala	pillepid diserial recolodo	illedightershipped in desiral light	2500
30 20 10		Results	Factor	Limit		z) Detector	Table (o)	Height	ANT	2500 Verdict
50 40 30 20	0-	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MH:	1	Table (o)		ALERO COMPANY OF THE PROPERTY	1

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

- 2. 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.
- 3. The three modulation modes of GFSK, Pi/4D-QPSK, and 8DPSK were 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 2.0dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Mode Femperature Test Result:		Speaker Keeping Transmitting					Keep transmitting DC3.7V			
	24 deg. C,					est Voltage				
Test Result:						Humidity		56%		
		Pass				Detector		PI	X	
dB Bandwidth		81.56kHz							-	
Ref Lvl 10 dBm	Marker 1 ndB BW 781	20.	ndB] .00 dB 525 kHz	VI	30 kH 3W 100 kH VT 8.5 ms		Iz			n
10						V 1	[T1]	-1 2.40200	.08 dBm	n
10			\mathcal{M}	V,	\	ndB BW ▼ _{T1}	78 [T1]	20 1.56312 -20	.00 dB 625 kHz 1.90 dBn	z m
20		TA	~		4	VT2 VT2	[T1]	2.40161 -21 2.40239	824 GHz	
1MAX 30	1/2	<u> </u>				/\/				11
40							74			
50								M		
60	•							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	monde	1
70										
80										

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GFSK Modulat	tion							Keep transmitting		
Product:		;	Speaker			Гest Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting	T	est Voltage	;	DC	C3.7V	
Temperature		2	4 deg. C,			Humidity		569	% RH	
Test Result:			Pass			Detector		PK		
20dB Bandwidth		78	81.56kHz							
Ŕ	Marker 1 [T1 ndB]				RBW	30 k	Hz R	F Att	20 dB	
Ref Lvl	ndB 20.00 dB			VBW	100 k					
10 dBm		BW 781	L.563126	525 kHz	SWT	8.5 m	s U	nit	dBm	
						v ₁	[T1]	-5	1.52 dBm	A
				1				2.44100	301 GHz	
0				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		ndE	3	20	0.00 dB	
					\bigvee	BW ▽ _T :	78 [T1]	1.56312 -21	625 kHz	
-10				 				2.44061		
			T1/	<i>,</i>	7		▼ _{T2} [T1]			
-20			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			No.		2.44139	980 GHz	1343
1MAX			لسر							1MA
-30			Í			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7			
-40								Λ		
-50		V					V	w.	Mehry	
-60										
-70										
-80										
-90										
Center 2	.441 GF	łz		300	kHz/			Spa	an 3 MHz	
Date: 16	.APR.2	021 17	:44:22							

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Product:			Speaker			T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Te	est Voltage		DC	23.7V	
Temperature		2	4 deg. C,				Humidity		569	% RH	
Test Result:			Pass				Detector	PK			
20dB Bandwidth		78	87.58kHz								
Ŕ	Marker 1 [T1 ndB]					BW	30 kH	Iz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	100 kH				
10 dBm	BW 787.57515030 kHz		S	WT	8.5 ms	s Ui	nit	dBm	1		
10							v ₁	[T1]	-2	.30 dBm	A
				1					2.47999	699 GHz	
0				^ /			ndB		20	0.00 dB	
					$\setminus \wedge$		BW ▼⊤1	78 [T1]	7.57515	030 kHz	
-10					" \	1	- 1		2.47961		
	ma.					$\bigvee_{\mathbf{T}_{2}}$		2.4790 2 [T1] -2		.40 dBm	
-20						T2		2.48039	980 GHz	1.00	
1MAX				\mathcal{J}			~~				1M2
-30		^					\mathcal{M}				
		~/						Ly.			
-40								7			
	m	V							\sim		
-50 mg	المري	V									
~~~\									7	when r	
-60										T.M.	
-70											
-80											
-90											
Center 2	.48 GHz	z		300	kHz/				Spa	an 3 MHz	

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Pi/4D-QPSK M	Iodulation					Test Mode:			Keep transmitting		
Product:		5	Speaker			To	est Mode:		Keep tra	ansmitting	
Mode		Keeping	g Transmi	tting		Te	st Voltage	e	DC	C3.7V	
Temperature		24	4 deg. C,			I	Humidity		569	% RH	
Test Result:			Pass			]	Detector		]	PK	
20dB Bandwidth		1.3	214MHz								
r)	Ma	arker	1 [T1 r	ndB]	RI	ЗW	30 k	Hz R	F Att	20 dB	
Ref Lvl	no	dB	20.	00 dB	V	B₩	100 k				
10 dBm	BI	W 1	.214428	886 MHz	SI	VТ	8.5 m	ns U	nit	dBm	
10							<b>v</b> ₁	[T1]	-1	l.23 dBm	A
									2.40199	699 GHz	
0							ndI	3	20	0.00 dB	
							BW $\nabla_{\mathrm{T}}$	1 [T1]	1.21442	886 MHz 1.10 dBm	
-10			$\sim$				M		2.40137	776 GHz	
		т)					\dagger \frac{1}{\dagger}	[T1]	-21	l.39 dBm	
-20		<u> </u>				<del> </del>	\	2.40259	218 GHz	1363	
1MAX								٦			1MA
-30											
-40		-						<del>                                     </del>			
-50	$\mathcal{M}^{\wedge}$	<b>~</b>						$\mathcal{N}$	~ /m		
-so Monday	M								- Prof	Mark Mark	
-60											
-70											
-80											
-90 Center 2	.402 GHz			300	kHz/				Spa	an 3 MHz	
Date: 16	.APR.202	21 18	:20:32						_		

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Product:		,	Speaker			T	est Mode:		Keep tra	nsmitting		
Mode		Keepin	g Transmi	tting		Te	est Voltage	,	DC	3.7V		
Temperature		24	4 deg. C,			]	Humidity		56%	6 RH		
Test Result:			Pass				Detector		PK			
OdB Bandwidth		1.	214MHz									
<u> </u>	Ma	ırker	1 [T1 n	ıdB]		RBW	30 k	Hz RI	7 Att	20 dB		
Ref Lvl	nd	lB	20.	00 dB		VBW	100 k	Hz				
10 dBm	BV	7 1	.214428	886 MHz		SWT	8.5 m	s Ur	nit	dBm		
10							<b>v</b> ₁	[T1]	-1	.63 dBm	A	
				1					2.44099	699 GHz	A	
0				^ /	\		ndI	8	20	.00 dB		
				$/ \setminus / \setminus$			BW $\nabla_{\mathrm{T}}$	[T1]	1.21442	886 MHz		
-10			$\sim$	7	~~~~		$\frac{1}{2}$	[TT]	2.44037	.57 dBm 776 GHz		
							$\sqrt{2}$	[T1]				
-20		7	V			Ţ	<u>2</u>	2.44159	218 GHz			
-30								7			1MA	
-40	$\sim$	V						V	<b>~</b>			
-50 M	<b>~</b> √								\\	Mary Mary		
-60												
-70												
-80												
-90												
Center 2.	441 GHz			300	kHz	/			Spa	n 3 MHz		

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Product:			Speaker			T	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting		To	est Voltage		DC	23.7V	
Temperature		2	4 deg. C,			]	Humidity		56%	6 RH	
Test Result:	•		Pass				Detector		]	PK	
dB Bandwidth		1.	.214MHz								
		Marker	1 [T1 n	ndB]	F	RBW	30 kH	Iz RI	7 Att	20 dB	
Ref Lvl		ndB		00 dB		/BW	100 kH				
10 dBm		BW 1	1.214428	886 MHz	S	SWT	8.5 ms	Uı	nit	dBm	1
							<b>V</b> 1	[T1]	-2	.36 dBm	A
0				1					2.47999	699 GHz	
				^ /			ndB BW		20 1.21442	.00 dB 886 MHz	
-10					\		$\nabla_{\mathrm{T1}}$	[T1]	-22	.12 dBm	
			$\sim$	\ \\	$\checkmark$	/ h		2.47937776 GHz			
-20								T2 [T1] -22		3.42 dBm	
1MAX	7						1	٦	2.48059	218 GHz	1M
-30											
-40	M	M						M	$\wedge$		
-50	Low							,	· ·	W North	
-60											
-70											
-80											
-90 Center 2	.48 GHz	z		300	kHz/				Spa	n 3 MHz	

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8QPSK Modula	ation										
Product:		ı	Speaker			Te	st Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Tes	t Voltage	<b>:</b>	DC	23.7V	
Temperature		2	4 deg. C,			Н	umidity		569	% RH	
Test Result:			Pass			D	etector		PK		
20dB Bandwidth		1.	.214MHz								
Ŕ		Marker	1 [T1 n	ndB]	RI	ВW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	VI		100 k				
10 dBm		BW 1	L.214428	886 MHz	Sī	VT.	8.5 m	s Ui	nit	dBm	
10							<b>v</b> ₁	[T1]	-1	l.23 dBm	A
0							_		2.40200		
							ndE BW		1.21442	0.00 dB 2886 MHz	
-10					\.\	∧		[T1]	-21	1.06 dBm	
-10			\w\	why h		M	2		2.4013777		
		T	$\checkmark$			\dagger \frac{1}{\dagger}	[T1]				
-20 1MAX								\	2.40259	218 GHz	1MA
-30											
-40	$\sim$	W						M			
-50 H	W.							<u> </u>		My	
-60											
-70											
-80											
-90 Center 2	.402 GI	Hz		300	kHz/				Spa	an 3 MHz	
Date: 16	.APR.2	021 18	:21:47								

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Product:		ı	Speaker			Γ	est Mode:		Keep tra	nsmitting	
Mode		Keepin	g Transmi	tting		T	est Voltage		DC	3.7V	
Temperature		2	4 deg. C,			]	Humidity		56%	6 RH	
Test Result:			Pass				Detector	PK			
20dB Bandwidth		1.	.214MHz								
Ŕ		Marker	1 [T1 n	ıdB]	R	BW	30 kH	Iz RI	7 Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 kH				
10 dBm		BW 3	L.214428	886 MHz	S	WT	8.5 ms	U1	nit	dBm	ı
10							<b>v</b> ₁	[T1]	-1	.52 dBm	A
				1					2.44099	699 GHz	Α.
0				^ /			ndB		20	.00 dB	
				$  \   \   \  $	\		BW VT1	[ m 1 ]	1.21442	886 MHz	
-10			$\sim$	7	<u>~~</u>	<u></u>	Ay 2	[T1]	2.44037	.41 dBm	
	T							∇ ₁₂ [T1] 2.440		21.80 dBm	
-20							12		2.44159	218 GHz	
-30							\				1M2
-30											
-40	$\sim$	N							Λ		
-50	~~ <del>/</del>								WW.	March 1	
-60											
-70											
-80											
-90											
Center 2	.441 GI	Hz		300	kHz/				Spa	n 3 MHz	

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8QPSK Modu	lation										
Product:		;	Speaker			T	est Mode:		Keep tra	ansmitting	
Mode		Keepin	g Transmi	tting		Те	est Voltage	e	DC	3.7V	
Temperature		2	4 deg. C,			I	Humidity		569	% RH	
Test Result:			Pass				Detector		]	PK PK	
20dB Bandwidth		1.	214MHz								
<u>ka</u>		Marker	1 [T1 r	ndB]	RI	ВW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB		BW	100 k				
10 dBm		BW 1	1.214428	886 MHz	SI	ИT	8.5 m	ns Ui	nit	dBm	
							<b>v</b> ₁	[T1]	-2	.30 dBm	A
0									2.48000	301 GHz	
				^ ^			ndI	8	20	.00 dB	
					\		BW ▼ _T	[ ] [T1]	1.21442	886 MHz	
-10			^^^		M	M	My		2.47937	776 GHz	
					~		A. 2.	2 [T1]	-22	.50 dBm	
-20							#	<u> </u>	2.48059	218 GHz	1MA
		7						4			IMA
-30											
								\			
-40											
	$\wedge \wedge$	W						M	./\		
-50 May 1	1mm								The last of	lν~\η " _Λ	
-60										Am N	
-60											
7.0											
-70											
-80											
-90 Center 2	2.48 GH	z		300	kHz/			ı	Spa	ın 3 MHz	
Date: 1	6.APR.2	021 18	:37:05								
		.APR.2021 18:37:05									

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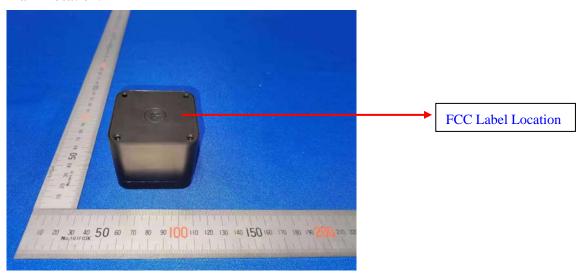


#### 10.0 FCC ID Label

#### FCC ID: 2APYY-AE0187

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:**



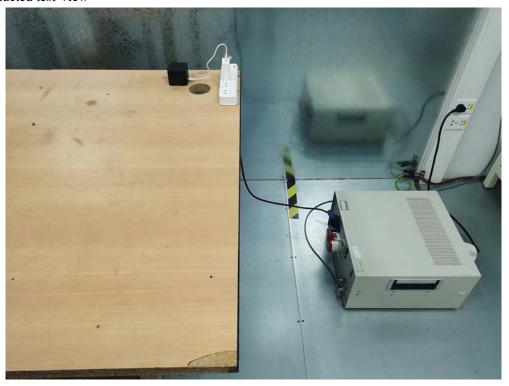
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#### 11.0 Photo of testing

#### 11.1 Conducted test View--



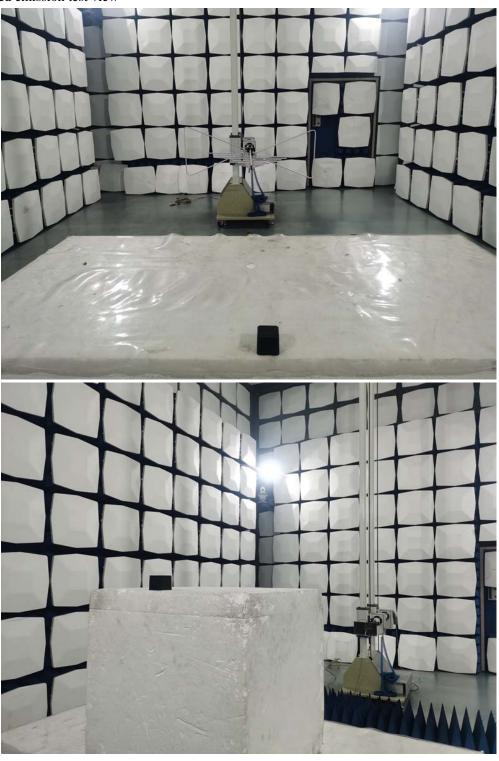
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#### Radiated emission test view



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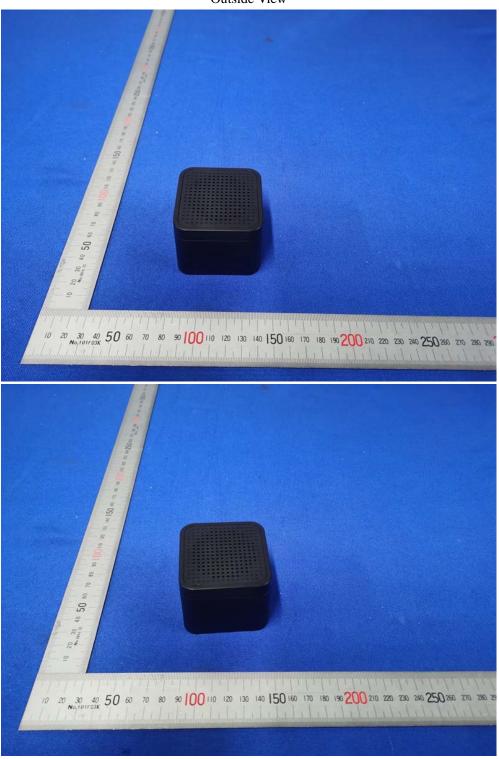
Report No.: TW2104165E

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### 11.2 Photographs – EUT

#### Outside View



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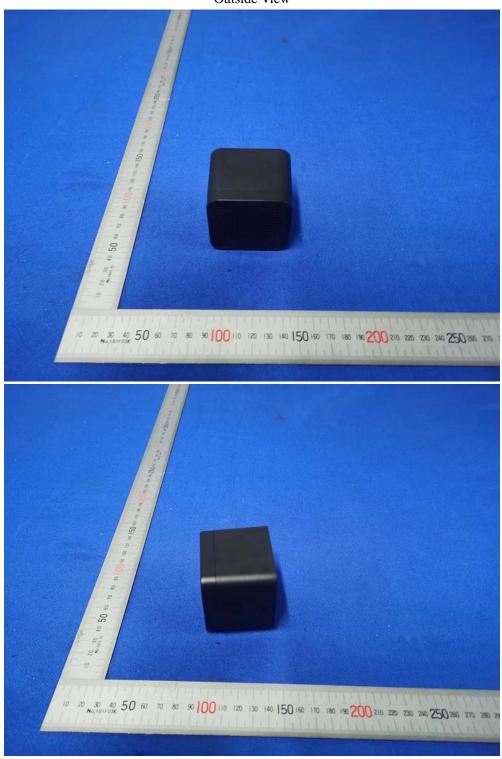
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Photographs - EUT





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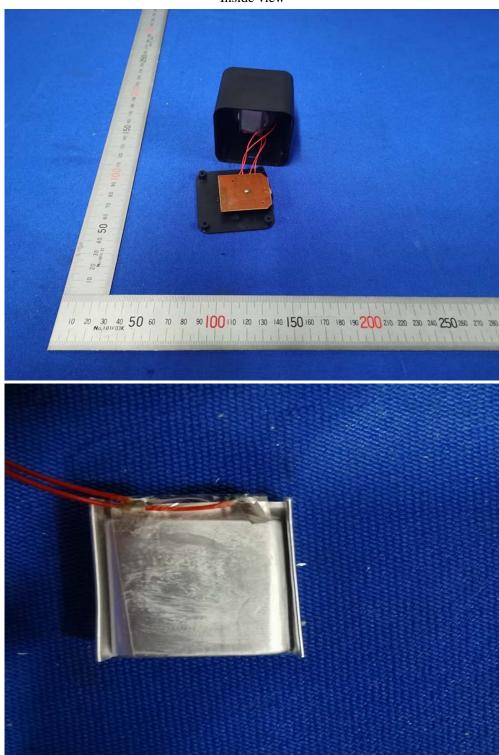
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Inside view



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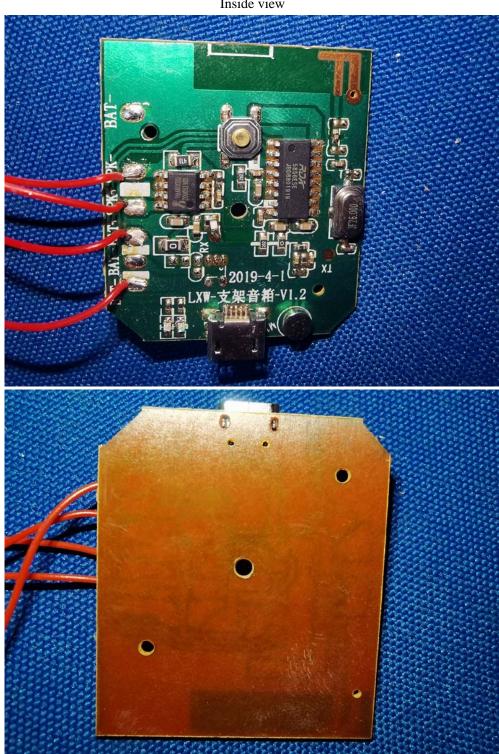
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Inside view



-- End of the report--

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