Report No.:	TW2406034-01E
Applicant:	Prime Brands Group Inc.
Product:	Bluetooth Speaker
Model No.:	BTX8
Trademark:	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	

Terry long

Terry Tang

Manager

Dated:

June 14, 2024

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



## **Special Statement:**

## 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

## CAB identifier: CN0033

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Test Report Conclusion Content

	content	
1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	5
1.6	Test Uncertainty	5
1.7	Test By	5
2.0	List of Measurement Equipment	6
3.0	Technical Details	7
3.1	Summary of Test Results	7
3.2	Test Standards	7
4.0	EUT Modification	7
5.0	Power Line Conducted Emission Test	8
5.1	Schematics of the Test	8
5.2	Test Method and Test Procedure	8
5.3	Configuration of the EUT	8
5.4	EUT Operating Condition	9
5.5	Conducted Emission Limit	9
5.6	Test Result	9
6.0	Radiated Emission test	12
6.1	Test Method and Test Procedure	12
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	13
6.5	Test Result	15
7.0	Band Edge	23
7.1	Test Method and Test Procedure	23
7.2	Radiated Test Setup	23
7.3	Configuration of the EUT	23
7.4	EUT Operating Condition	23
7.5	Band Edge Limit	23
7.6	Band Edge Test Result	24
8.0	Antenna Requirement	28
9.0	20dB bandwidth measurement	29
10.0	FCC ID Label	39
11.0	Photo of Test Setup and EUT View	40

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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 v	vith the Federal Communications Commission – United Sates
Registration 1	Number: 744189
For 3m Anec	hoic Chamber

#### 1.2 Applicant Details

Applicant:Prime Brands Group Inc.Address:68 35th Street, Unit 38, Suite B634, Brooklyn, NY 11232, USA

#### 1.3 Description of EUT

Product:	Bluetooth Speaker
Manufacturer:	Prime Brands Group Inc.
Address:	68 35th Street, Unit 38, Suite B634, Brooklyn, NY 11232, USA
Trademark:	N/A
Model Number:	BTX8
Additional Model Name	N/A
Rating:	Input: 5Vdc
Battery:	DC3.7V, 1200mAh Li-ion battery
Serial No.:	062820240001
Hardware Version:	V1.0
Software Version:	V2.0
Operation Frequency:	2402-2480MHz
Modulation Type:	GFSK, JI/4DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1MHz
Antenna Designation	PCB antenna with gain -0.68dBi maximum (Get from the antenna specification)

#### 1.4 Submitted Sample: 2 Samples

#### 1.5 Test Duration

2024-06-04 to 2024-06-14

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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

Andy - Xing

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	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
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	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

#### 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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The EUT has been tested according to the following specifications:

#### **3.0** Technical Details

#### 3.1 Summary of test results

The EOT has been rested according to the following specifications.			
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
FCC Part 15.215(c)	20dB bandwidth	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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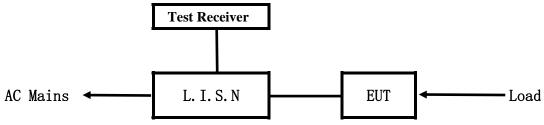
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#### 5.0 Power Line Conducted Emission Test

5.1 Schematics of the test



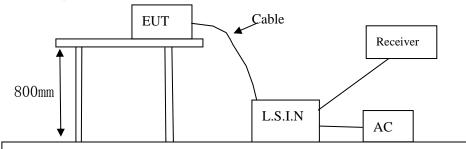
EUT: Equipment Under Test

#### 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 500hm/50uH as specified by section 5.1 of ANSI C63.10–2013.

Test Voltage: 120VAC, 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
11.	LUI

Device	Manufacturer	Model	FCC ID
Bluetooth Speaker	Prime Brands Group Inc.	BTX8	2AY4Z-BTX8

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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#### 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

Frequency	Limits (d	lB μV)
(MHz)	Quasi-peak Level	Aver ge Level
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*
$0.50~\sim~5.00$	56.0	46.0
$5.00~\sim~30.00$	60.0	50.0

## 5.5 Power line conducted Emission Limit according to Paragraph 15.207

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

2. The tighter limit shall apply at the transition frequencies

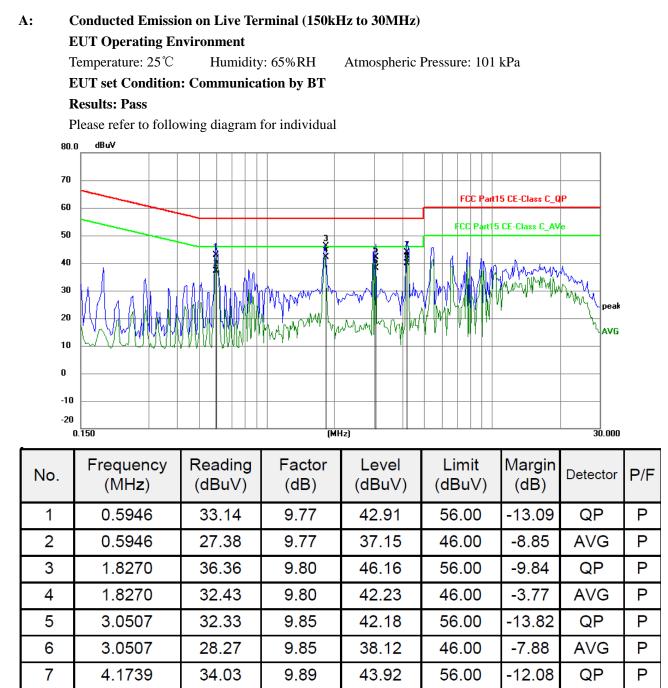
#### 5.6 Test Results:

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29.96

8

4.1739

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39.85

9.89

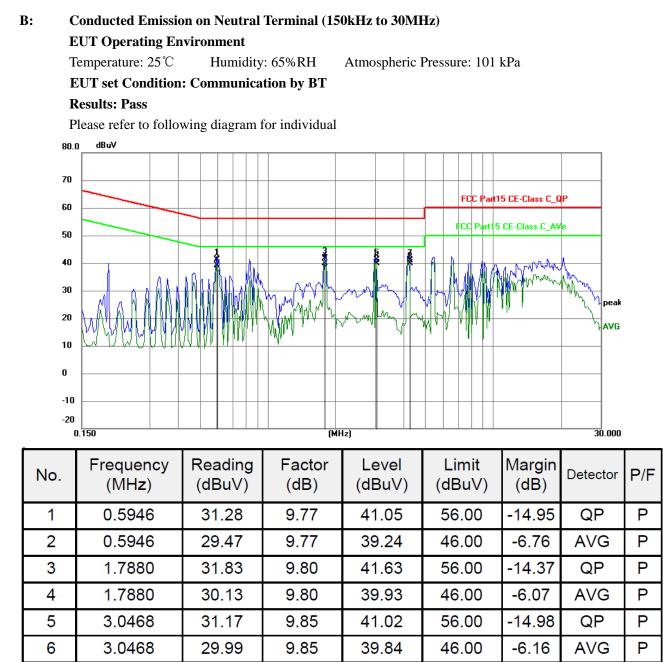
-6.15

AVG

Ρ

46.00





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

31.04

29.94

7

8

4.2636

4.2636

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9.90

9.90

40.94

39.84

56.00

46.00

-15.06

-6.16

QP

AVG

Ρ

Ρ



#### 6 Radiated Emission Test

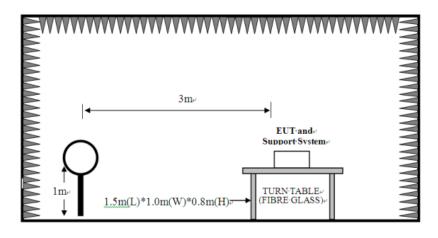
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
Above IGHZ	Peak	1MHz	10Hz	Average

(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

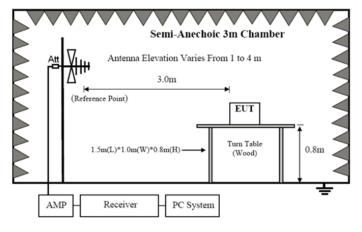


The report refers only to the sample tested and does not apply to the bulk.

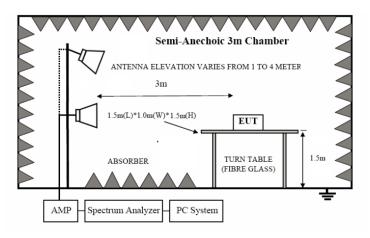
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For radiated emissions from 30MHz to1GHz



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.
- 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:

Α	FCC Part 15 Subpart C Paragraph 15.249(a) Limit
---	---

Fundamental Frequency	Field Stre	ength of Fundamental (3m)	Field S	trength of Harmonics (3m)
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m

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24	400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)
Note:	1. RF Field Streng	gth (dBuV)	$= 20 \log \text{RF Volt}$	age (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.

1	I I I I I I I I I I I I I I I I I I I	
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) =  $20 \log \text{RF}$  Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. 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.

6. Battery was fully charged during test

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# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal

(MHz)

2402

1

(dBuV/m)

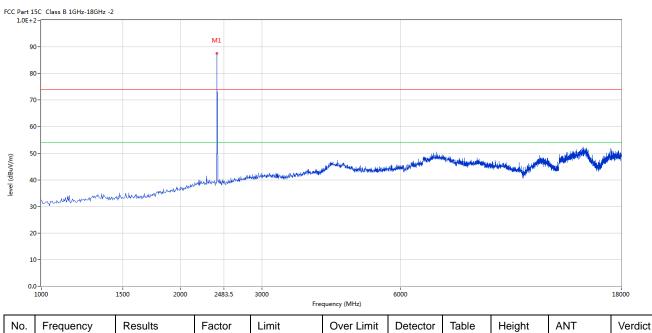
87.51

(dB)

-3.57

(dBuV/m)

114.0



(dB)

-26.49

(0)

44.00

Peak

(cm)

100

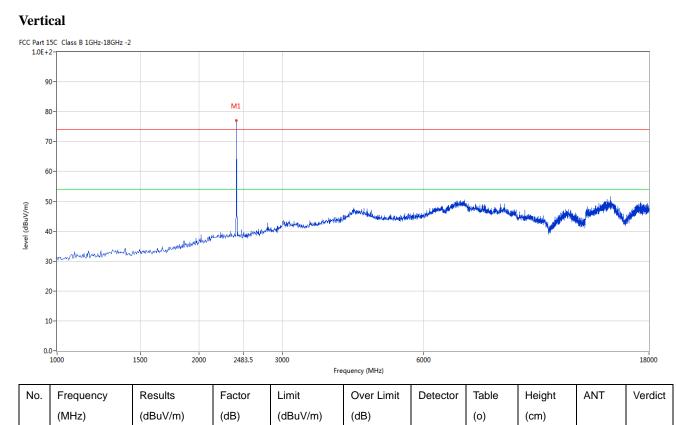
Horizontal

Pass

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-37.00

Peak

249.00

100

Vertical

Pass

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

77.00

1

2402

-3.57

114.0

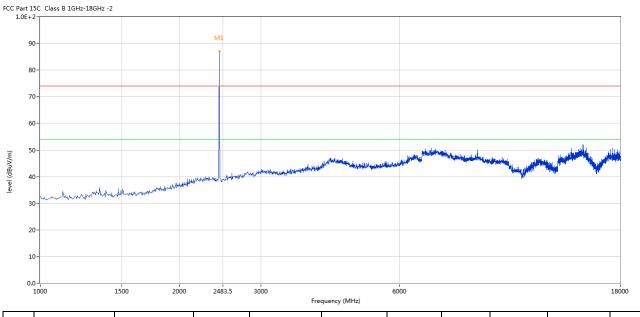
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## Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal

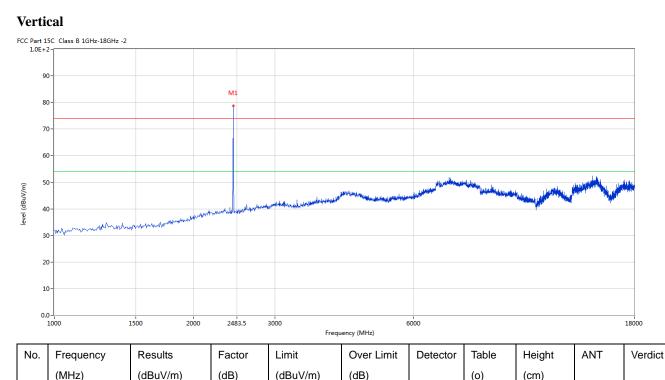


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	87.07	-3.57	114.0	-26.93	Peak	37.00	100	Horizontal	Pass

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232.00

100

Vertical

Pass

Peak

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

78.69

-3.57

114.0

-35.31

2441

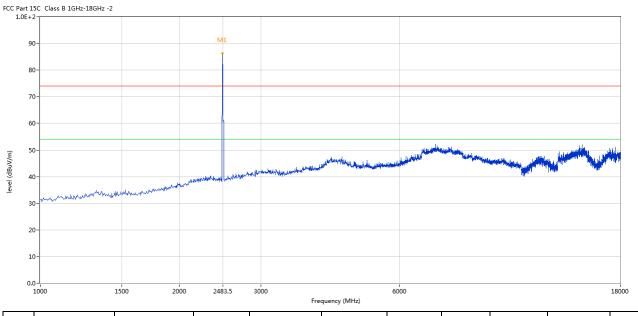
1

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

#### Horizontal

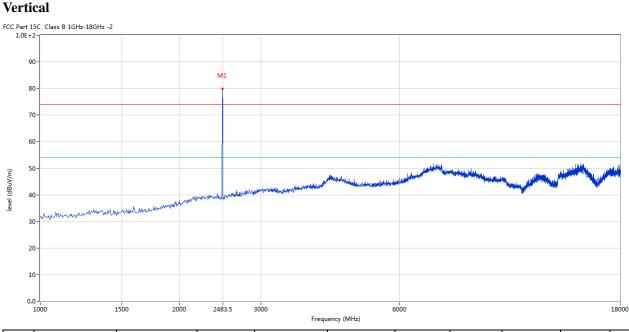


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	86.26	-3.57	114.0	-27.74	Peak	59.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	79.90	-3.57	114.0	-34.10	Peak	204.00	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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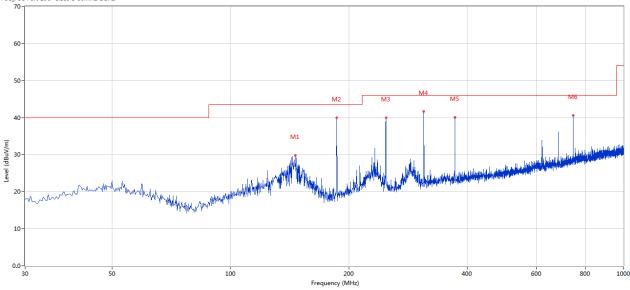
## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	146.128	29.85	-17.28	43.5	13.65	Peak	256.00	100	Horizontal	Pass
2	186.131	39.99	-14.77	43.5	3.51	Peak	262.00	100	Horizontal	Pass
3	248.438	39.90	-12.19	46.0	6.10	Peak	38.00	100	Horizontal	Pass
4	310.502	41.65	-10.71	46.0	4.35	Peak	262.00	100	Horizontal	Pass
5	372.567	40.08	-9.47	46.0	5.92	Peak	74.00	100	Horizontal	Pass
6	745.196	40.55	-3.44	46.0	5.45	Peak	289.00	100	Horizontal	Pass

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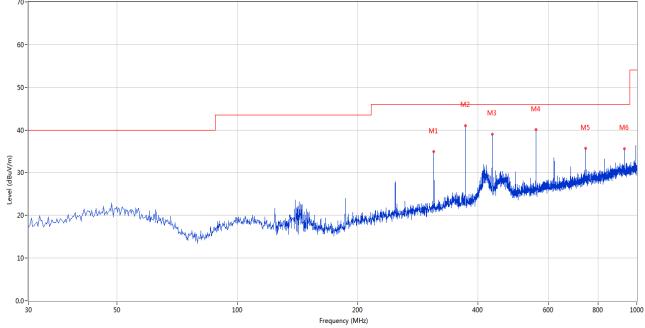
#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz 70-



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	310.502	34.87	-10.71	46.0	11.13	Peak	245.00	100	Vertical	Pass
2	372.567	41.06	-9.47	46.0	4.94	Peak	213.00	100	Vertical	Pass
3	434.631	39.03	-8.01	46.0	6.97	Peak	197.00	100	Vertical	Pass
4	558.760	40.01	-6.30	46.0	5.99	Peak	179.00	100	Vertical	Pass
5	744.954	35.73	-3.46	46.0	10.27	Peak	107.00	100	Vertical	Pass
6	931.390	35.54	-1.66	46.0	10.46	Peak	101.00	100	Vertical	Pass

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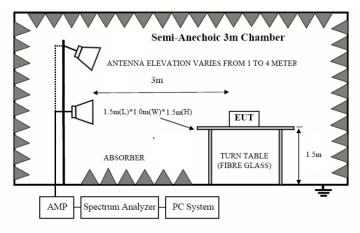


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- 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.

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#### 7.6 Test Result

	Product:		Bluetooth	Speaker		Polari	ty		Horizontal	
	Mode	k	Keeping Tra	ansmitting		Test Vol	tage		DC3.7V	
Te	mperature		24 de	g. C,		Humid	ity		56% RH	
Te	est Result:		Pas	SS						
	Part 15C Class B 1GHz-18 1.0E+2-r	GHz -2								
	90- 80- 70- 60- 50-						, M.M.	M1		
level (dBuV/m)	40	der den und der den scheiden für bestehen sind der den scheiden sind der scheiden scheiden scheiden scheiden sc	barathiring an	und geland generation de de Maranna	M3 	h <sub>el</sub> owytan <del>yk zotania klas</del> t	AN APPOP		The second second	ik oluwylary.
	0.0- 2370				Frequency (MHz)	T		Height		2410
	30- 20- 10- 0.0- 2370 Frequency	Results	Factor	Limit	Frequency (MHz)	Detector	Table	Height	ANT	2410
No.	30- 20- 10- 2370 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdie
No.	30- 20- 10- 2370 Frequency (MHz) 2401.842	Results (dBuV/m) 87.09	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 13.09	Detector Peak	Table (0) 37.00	(cm) 100	ANT Horizontal	2410 Verdie
No.	30- 20- 10- 2370 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdi

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	Product:		Bluetooth		Detect	or	Vertical							
	Mode	]	Keeping Transmitting 24 deg. C,				tage	DC3.7V						
Te	emperature						ity	56% RH						
	est Result:		Pass											
	art 15C Class B 1GHz-18G 0E+2-	Hz -2												
	90-													
								M1						
	80-													
	70-							/						
	60 -													
		M7												
-	50-						<b>y</b>		1					
BuV/m)	50-				M2									
level (dBuV/m)	40	ng den helf warden in de seden ten synstaan de	ndeselen allen soch har del kan det kan	naniyi sili mentunsiassa ili loudo	M3 Najadraji di divisi divisi di diversi di diversi di divisi di di di di di di di di d	an talangi yangka di fingang kang	muna		A martinet and the	i/siranawindahat				
level (dBuV/m)	40	Nydewlddoraethoan daerda afar agaileadau	าสมัยโครงการแห่งไม่สารเสียง-สิ่งไปสารเหตุ	eneripetterseneringetterate		an da Jahari na siya da fayan Bady	mmuman		an real stated	h/abita-primeriodaty)				
level (dBuV/m)	40-	ngan isi neninsi kanda dinan isi isi	assaharansa kanakana kana kana kana kana kana k	eneripetterretungenserblande		an fa Junging ng Pangkang Kanghang Kanghang Kanghang Kanghang Kanghang Kanghang Kanghang Kanghang Kanghang Kangh	manad			i, ite you windy by )				
level (dBuV/m)	40 - bory)nfittisset, <del>statuterenset</del> 30 -	Ngani silonenteror i av Akriko egosisadar	andersen her die ander die	aanpiniteraansa kande		achddwiryngordynynolyngoryllad	mulukar			k/sharpoon vieda byt				
level (dBuV/m)	40 - 30 - 20 - 10 -	ngan di nangan dan katan ka	assak-skyranska akka Maran	enersteilen en einer		nutalanin da dipanaka	mauna			l/shaynowsidady)				
level (dBuV/m)	40 - 	Nedera Lais Anna ann an Anna Anna an An	nasakutu, suu Suuditu vaidu Masuu			n (Albert Bolger, Albert	muuna							
	40- 40- 40- 30- 20- 10- 0.0-	Results	Factor		des sebaneres in destributiones	Detector	Table	Height	ANT	2410				
	40- - - - - - - - - - - - - -				frequency (MHz)		Table (0)	Height (cm)		2410				
No.	40- 40- 40- 40- 40- 40- 40- 40-	Results	Factor	Limit	Frequency (MHz)			-		2410				
No.	40- 30- 20- 10- 2370 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(0)	(cm)	ANT	2410 Verdic				

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	Product:		Bluetooth Speaker						Horizontal		
	Mode		Keeping 7	Fransmitting		Test Voltage			DC3.7V		
Te	emperature		24 d	leg. C,		Humidity			56% RH		
Te	est Result:		F	Pass							
CC Part 1.0E+	15C Class B 1GHz-18GHz	-2									
g	2 90- 80-		M	W							
	50 -		Jul 1	h h							
	50 -		M2								
(m/vuldu) ia	10-	and a state of the second		<b>`</b>	March Martine and Marcado	andere and are a travel	and a sum of the later of a second state of a second state of the second state of the second state of the second	anna, sebare - setheles, sitestadet	entrative (Hersholtentrative)	tion line did al is a	
level (abuv/m		ani shinda adashin minani katika		``````````````````````````````````````	Mr. Warnel and Alexand	ti shain dide transaisin di	and and and the last	eren is her energischer genäuten	ng ing the hold of the state of	jina literatife si dare	
level (dbuV/m	10-	ministration in a second of the			Max monstay Assured	กร่างสิ่งมีของสีร้าสิ่งสร้างของจะจะจะได้ระมีป	ertensund etter für derse kunnen.	สระน่อย่างการสร้างการสร้างการสร้างสา	ag ag sina sina an a	linnlingsfylder,	
level (dBuV/m	10- - 30-				Marin Marine Marin	สารสิตรับเสริร์สิตสารแรงสารรูปสิต	arða <b>gandað</b> ð furðig kasar	สระนับสำนักจะเหตุรู้ได้ระงามกรู้ได้ระงามกับจะไหล่	napinguilleadain an ini ni n	jinijadji jac	
level (dBuV/m	40 - <mark>Josh Journa 2000 - Josh Journa 2000 - 10000 - 1000 - 10000 - 1000 - 1000 </mark>			2483.		4644anatikatikatikatikatikatikatikatikatikatik	oritagional difference (and the factors	994.10 <sup>9</sup> 974.00 <sup>9</sup> 974.00	199, 199, 199, 199, 199, 199, 199, 199,	2500	
level (dBuV/m	40	Results (dBuV/m)	Factor (dB)	2483. Limit (dBuV/m)	5	Detector	Table (o)	Height	ANT	2500	
level (dBuV/m	10	Results		Limit	5 Frequency (MHz) Over Limit		Table	Height	T		

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	Product:		Bluetooth	Speaker		Detec	tor		Vertical	l	
	Mode	]	Keeping Tr	ansmitting	Test Voltage Humidity			DC3.7V			
Te	mperature		24 de	g. C,					56% RH		
Te	est Result:		Pa	SS							
	rt 15C Class B 1GHz-18G	Hz -2									
1.0	E+2-										
	90-										
	80-		M1								
	80-		N	™							
	70-		A	h							
	60-		N	M							
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Ê	50-		5	M2							
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(dBuV/m)	40-		N. C.	Jun Jun	Manual International Action			1	a		
level (dBuV/m)	talle bis on and a fait at an and a station on	nnesse si a canta da canta da se canta da se canta da se canta da se		Jun 1	Manneshid deal for the measure with	der Andre den sie die en in Maard gebe	terqishaa dowiiniyakis	and the stars of a descent of	بوريمه وليروليهم معدول	the state of the second	
level (dBuV/m)	40- 10- 30-	neszinteki kareszinteserent keserekiset	,	<u>}</u>	Marana islad dara badana asisis asi	derteskondunen ellenesisi teatesta	ileestaden dorine kaalestekse	wel di si kanadari kasaring se	Second de la constantion de la constant	the state of the s	
level (dBuV/m	talle bis on and a fait at an and a station on	neszinteki tarjajtásocsat szeredyt		<u>}</u>	Mannashlid, dyalaan aasaa ah	dert aller de ante de cantant ante prese	Nersichae dowiniste	and the officer of the second sec	francista and a stand and a	hand with star and	
level (dBuV/m	20	neseineiti taresti secont tare alga		<u>}</u>	Mayoma, ilidada ka marana sa	dertalen dramet bannet bankerten	Nergishida domini tekibi	addi elayyi a hervindər	Annan Adalah Sanah	14378 <sup>3</sup> -14 (A) / A	
level (dBuV/m	30-	nen justik targadi sasud tuga dipt	۶ 	<u>}</u>	Magamashiddografaa.amaanaa	ubertaken dinasa tarak pena	inerden fonterinke	unde för er langa som föra den er vira den	Summer of Selected and Selected	60250-4-4-2-2-5-6-5-6-5-6-5-5-5-5-5-5-5-5-5-5-5-5	
level (dBuV/m	20	nen jaski förstada som det av				landan dan kanaran kana Internet kanaran	ile et charle de la contra facilita	eni Al riggi gi a dannin A Ma	Sum dila di sete		
level (dBuV/m)	20	nevinekkereskinsenet også		2483.		nderholmen die en di	1949 4		Sume dela del colo de const		
level (dBuV/m)	20	Results	Factor		5	Detector	Table	Height	ANT	2500	
	30 - 20 - 10 - 2470		Factor (dB)	2483.	5 Frequency (MHz)					2500	
	30- 20- 10- 2470 Frequency	Results		2483. Limit	5 Frequency (MHz) Over Limit		Table	Height		2500 Verdic	

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

2. 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 with gain -0.68dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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#### 9.0 20dB Bandwidth Measurement

**Test Configuration** 



#### **Test Procedure**

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### Limit

N/A

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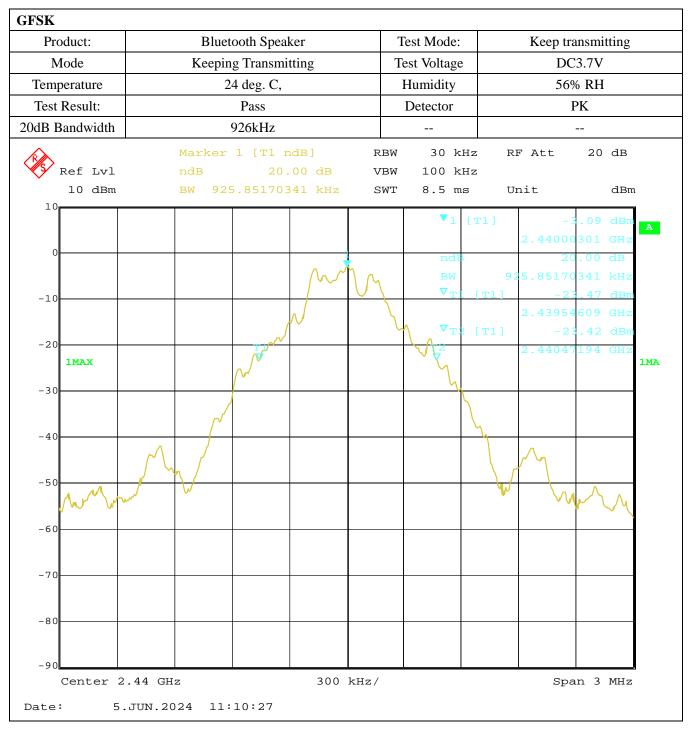


#### **Test Result**

GFSK Product:	Bluetooth Speaker					Test Mode:		Keep transmitting			
Mode	Keeping Transmitting					Test Voltage					
Temperature	24 deg. C,					Humidity		56% RH			
Test Result:						Detector					
20dB Bandwidth	Pass 914kHz							PK			
				1 - 1							
Ref Lvl		Marker ndB	1 [T1 r.	.00 dB		ЗW ЗW	30 k 100 k		F Att	20 dB	
10 dBm			8.827655			мт	8.5 m		nit	dBn	ı
10							<b>v</b> 1	[T1]		.77 dBm	
							. Т	[ ] ]	2.40200	301 GHz	A
0							ndB	3	20	.00 dB	
				$\bigwedge$	ΓM		BW	91	3.82765	531 kHz	
-10							$\nabla_{\mathrm{TI}}$	[T1]	-22	.13 dBm	
				$\sim$		5	A		2.40155		
-20			TIN			~	$\nabla_{T_1}$	2 [T1]	-22	.32 dBm	
1MAX							V Ey		2.40246	593 GHz	1MA
- 30		ممر م						L.			
-40	M	المريم							m		
mm	/	•						V	h	Mary	
- 6 0											
-70											
-80											
-90 Center 2.4	402 GH	[z		300	kHz/				Span 3 MHz		
Date: 5.J	UN.202	DA 11.	08:45								

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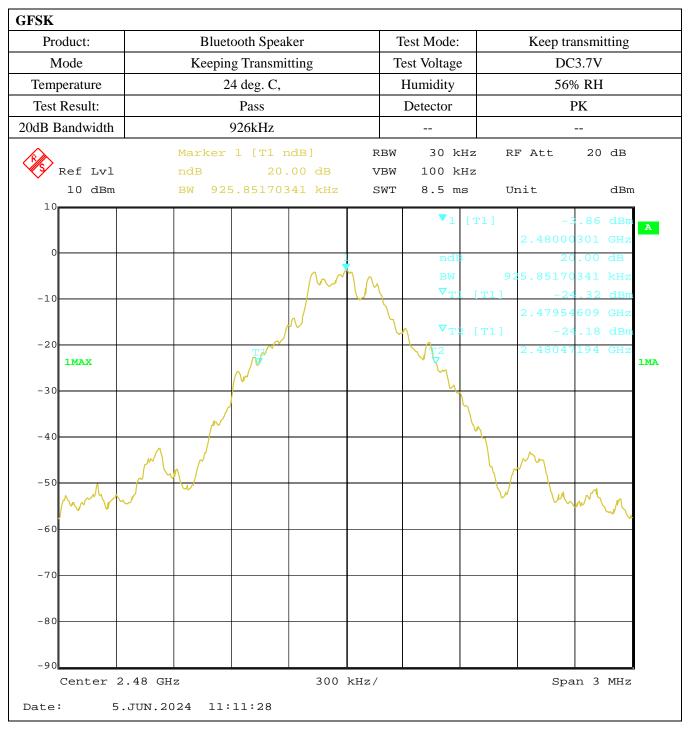




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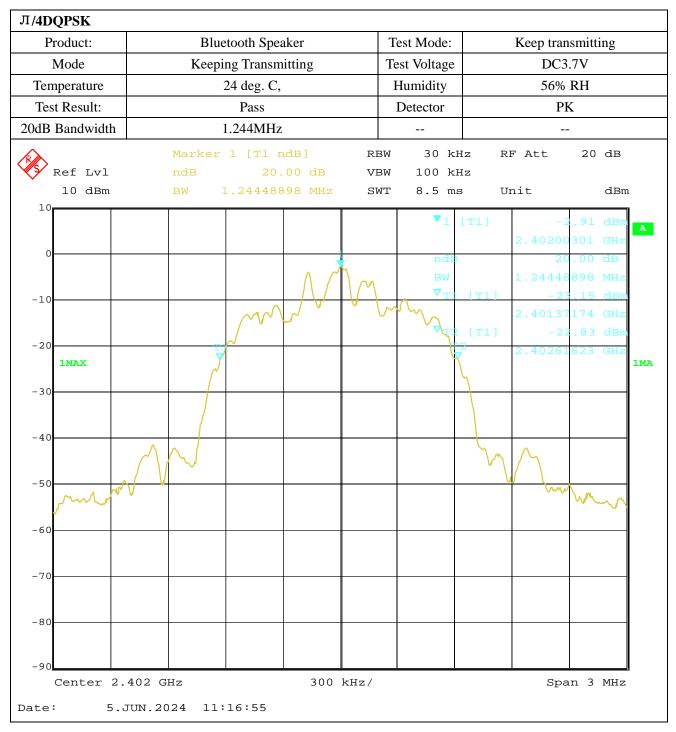




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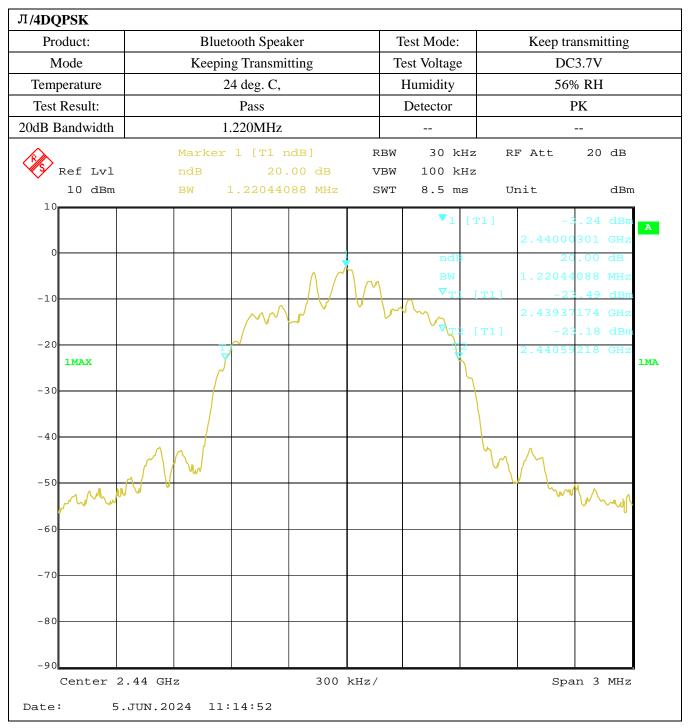




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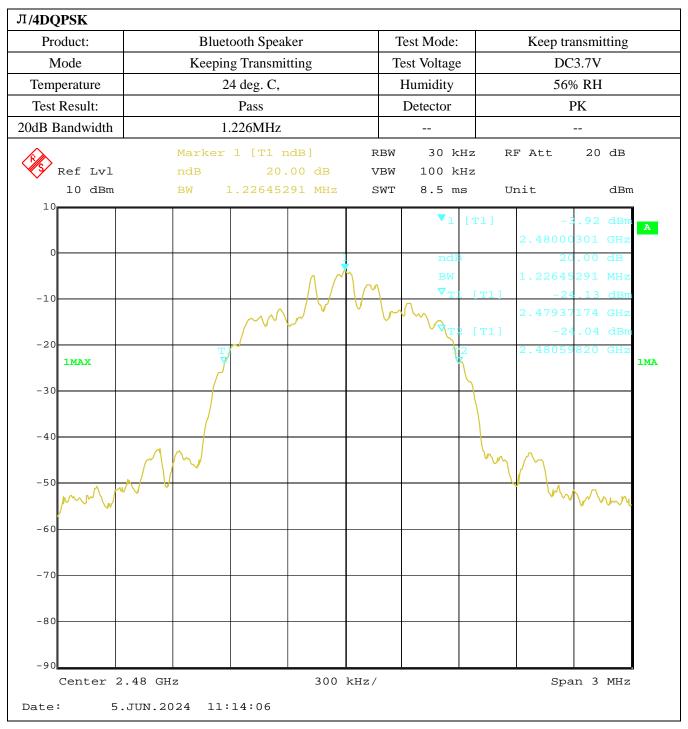




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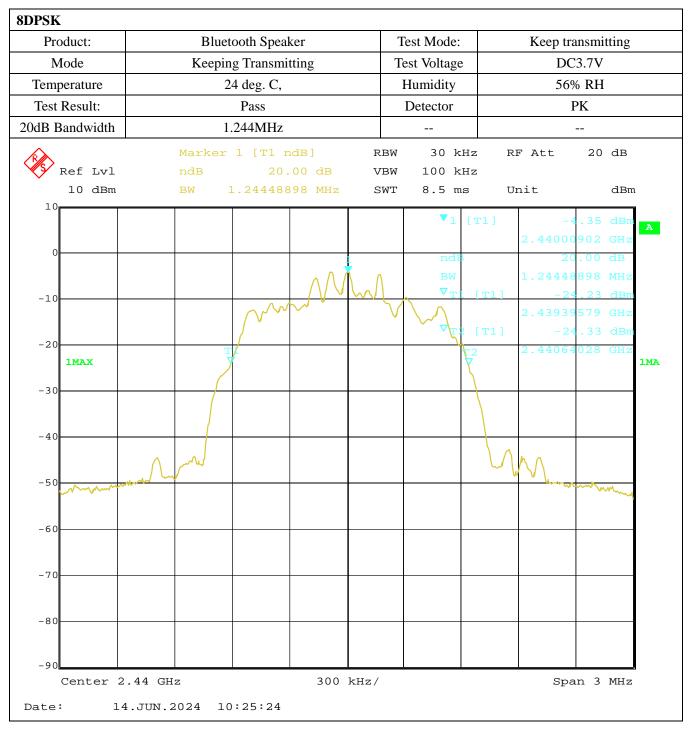
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8DPSK										
Product:	Bluetooth Speaker				Test Mode:		Keep transmitting			
Mode	Keeping Transmitting 24 deg. C, Pass				Test Voltage Humidity Detector		DC3.7V 56% RH PK			
Temperature										
Test Result:										
20dB Bandwidth	1.244MHz									
R	Marker	1 [T1 n	ldB]	RI	зw	30 k	Hz RI	F Att	20 dB	
Ref Lvl	ndB		00 dB	VI	ЗW	100 k				
10 dBm 10	BW	1.244488	98 MHz	SI	νT	8.5 m	s Ui	nit	dBm	1
10						<b>v</b> 1	[T1]	- 4	.82 dBm	A
								2.40200	902 GHz	
0						ndB	5	20	.00 dB	
			$\wedge \wedge$	(		BW ♥┬1	[T1]	1.24448	898 MHz .57 dBm	
-10		$\sim \sim$			$\backslash$			2.40139		
					Č		2 [T1]	-24	.67 dBm	
-20 1MAX	T	/					₹2 ▼	2.40264	028 GHz	<b>1MA</b>
-30										
-40	A						M	$\sim$		
-50								· ····	mun	
-60										
-70										
-80										
-90 Center 2.	402 GHz	300 kHz/					Span 3 MHz			
Date: 14.	JUN.2024 10	:26:09								

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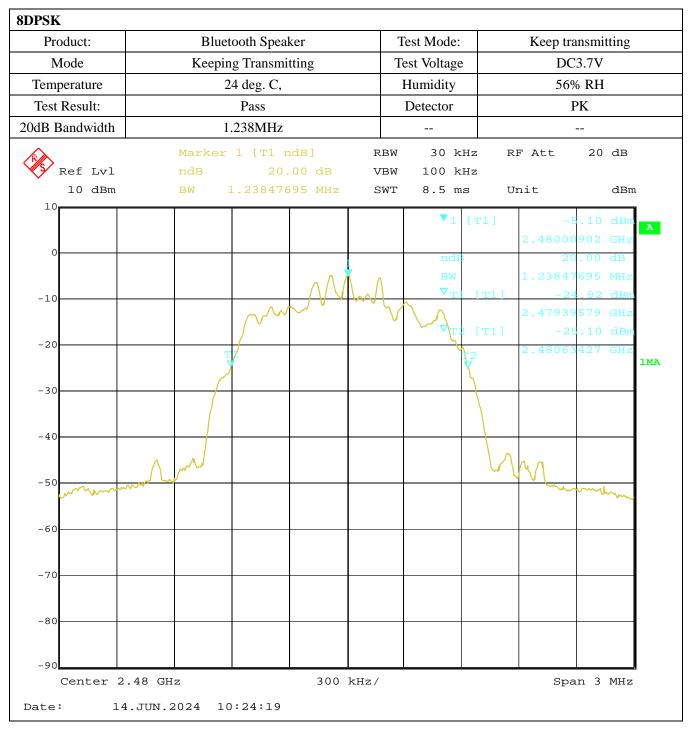




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Page 39 of 47

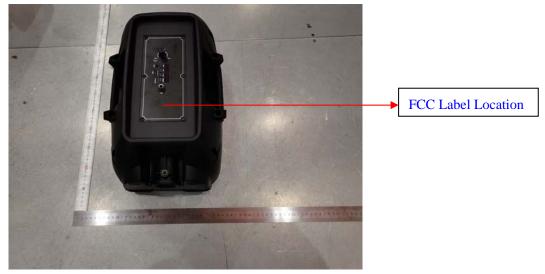
#### 10.0 FCC ID Label

#### FCC ID: 2AY4Z-BTX8

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

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

Mark Location:



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#### 11.0 Photo of testing

11.1 Conducted test View



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Radiated emission test view



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#### 11.2 Photographs - EUT

Outside View



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Outside View



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Outside View



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Inside View



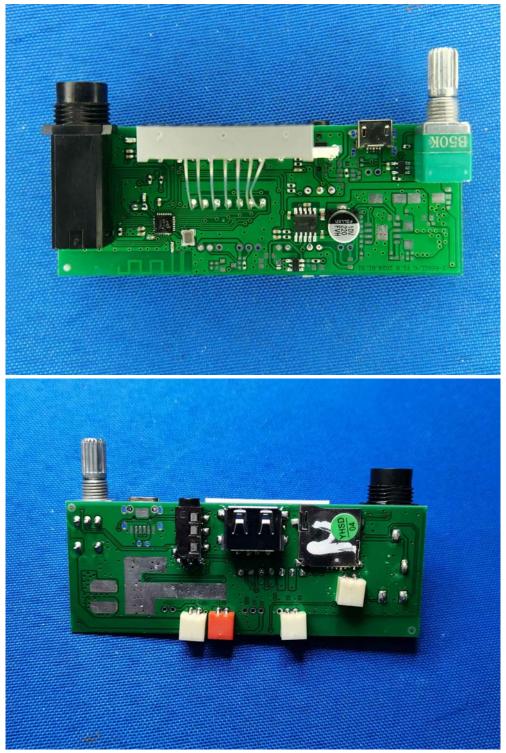
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Page 46 of 47

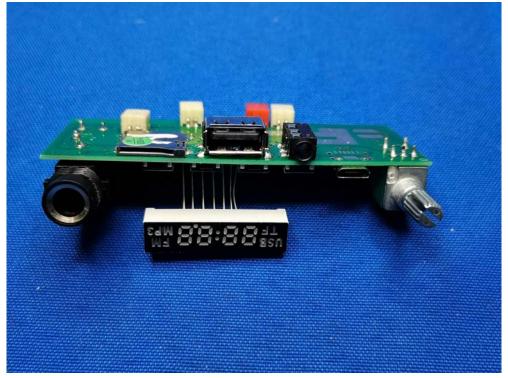
Inside View



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Inside View



--End of the report--

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