

Report No.: File Reference No.:

Applicant:

TW2110281-01E 2021-11-25

Shenzhen Jingwah Information Technology Co., Ltd.

Product: Wireless Bluetooth Speaker

Model No.: BKS800-2

Trademark: Brookstone

Test Standards: FCC Part 15.247

Test Result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Manager

Dated:

November 25, 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



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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1.0 **General Details**

Test Lab Details 1.1

SHENZHEN TIMEWAY TESTING LABORATORIES. Name : Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Address: Village, Nanshan District, Shenzhen, China Telephone: (755) 83448688 (755) 83442996 Fax: Site Listed with Federal Communications commission (FCC) Registration Number:744189 For 3m Anechoic Chamber Site Listed with Industry Canada of Ottawa, Canada Registration Number: IC: 5205A For 3m Anechoic Chamber

1.2 Applicant Details

Applicant:	Shenzhen Jingwah Information Technology Co., Ltd.
Address:	6F, Bldg.4, Jinghua Square, No. 168, Zhenzhong Rd., Fuqiang Community, Huaqiangbei,
	Futian District, Shenzhen
Telephone:	
Fax:	

Description of EUT 1.3

Product:	Wireless Bluetooth Speaker		
Manufacturer:	Shenzhen Jingwah Information Technology Co., Ltd.		
Address:	6F, Bldg.4, Jinghua Square, No. 168, Zhenzhong Rd., Fuqiang Community,		
	Huaqiangbei, Futian District, Shenzhen		
Trademark:	Brookstone		
Model Number:	BKS800-2		
Additional Model Nur	mber: N/A		
Hardware Version: V2	2.0		
Software Version: V2.	0		
Type of Modulation	GFSK, <i>川</i> /4D-QPSK, 8DPSK for Bluetooth		
Frequency range	2402-2480MHz for Bluetooth		
Channel Spacing	1MHz for Bluetooth		
Frequency Selection	By software		
Channel Number	79 channels for Bluetooth		
Antenna:	PCB antenna used. The gain of the antennas is 2.0dBi (get from the antenna		
	specification provided the applicant)		
Input Voltage:	DC16V, 4.06A		

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Power Supply:	Model: MX65Z1-1604060; Input: 100-240V~, 50-60Hz, 2A; Output: DC16.0V, 4.06A
Battery:	DC10.8V, 5000mAh, Internal Li-ion battery

- 1.4 Submitted Sample: 4 Samples
- 1.5 Test Duration 2021-10-30 to 2021-11-25
- 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% 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	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2021-01-06	2022-01-05

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 acc	ording to the following specif	ications:	
Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	Pass	Complies
Maximum Peak Out Power	15.247 (b)(1), (4)	Pass	Complies
Carrier Frequency Separation	15.247(a)(1)	Pass	Complies
20dB Channel Bandwidth	15.247 (a)(1)	Pass	Complies
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	Pass	Complies
Time of Occupancy (Dwell Time)	15.247(a)(iii)	Pass	Complies
Spurious Emission, Band Edge, and Restricted bands	15.247(d),15.205(a), 15.209 (a),15.109	Pass	Complies
Conducted Emissions	15.207	Pass	Complies
RF Exposure	15.247(i), 1.1307(b)(1)	Pass	Complies

Note: the multi-functional base and simple base were tested and only the worst case was reported. The multi-functional base was the worst case.

Test Standards 3.2

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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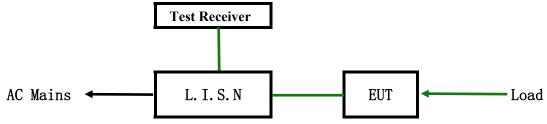
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5. **Power Line Conducted Emission Test**

5.1 Schematics of the test

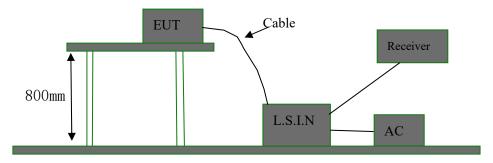


EUT: Equipment Under Test

5.2 Test Method and test Procedure

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

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Device	Manufacturer	Model	FCC ID
Wireless Bluetooth	Shenzhen Jingwah Information	BKS800-2	RBD-BKS800-2
Speaker	Technology Co., Ltd.	DK3800-2	KDD-DK5800-2

B. Internal Device

Device	Manufacturer	Model	Rating
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- А Setup the EUT and simulators as shown on follow
- В Enable AF signal and confirm EUT active to normal condition

Frequency	Limits (d	B 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
$5.00~\sim~30.00$	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

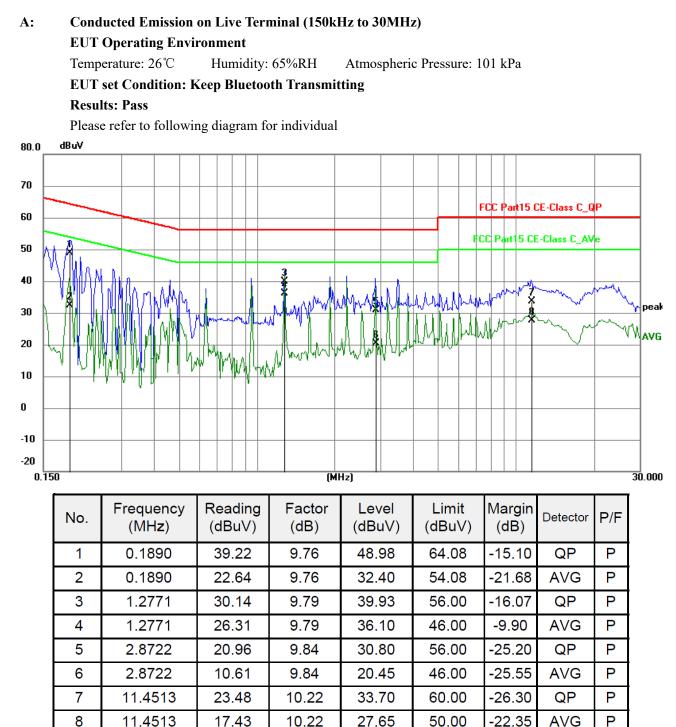
5.6 Test Results

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

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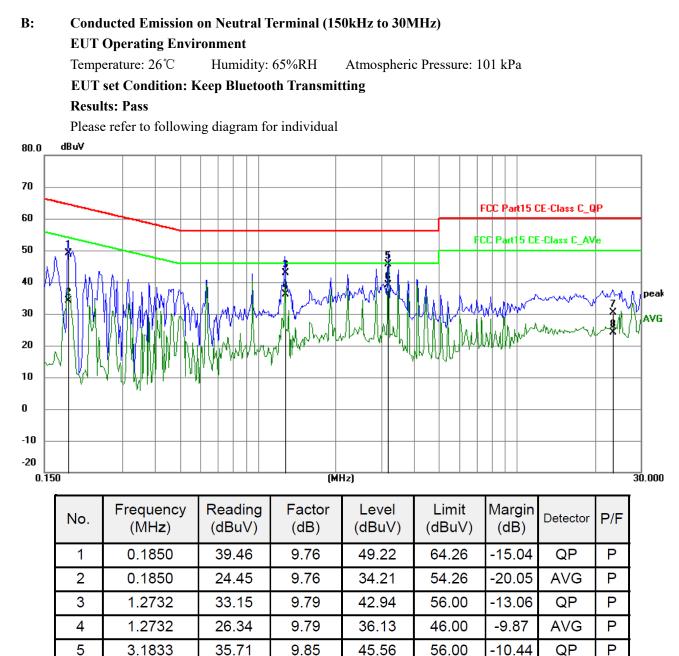
Ρ

Ρ

AVG

QP

AVG



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

3.1833

23.4477

23.4477

29.34

19.41

13.30

9.85

10.89

10.89

39.19

30.30

24.19

46.00

60.00

50.00

-6.81

-29.70

-25.81

6

7

8

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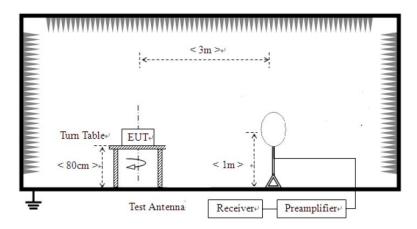


6 Radiated Emission Test

- 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 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. 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) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



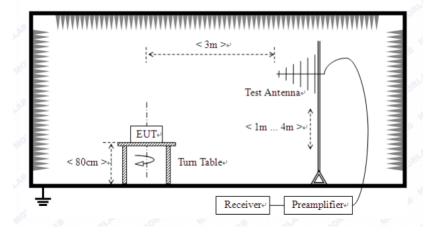
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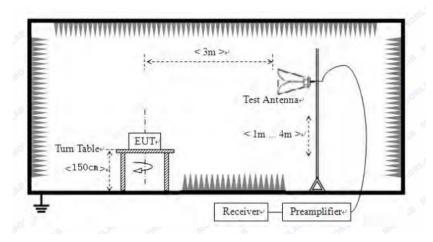
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For radiated emissions from 30MHz to1GHz



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.
- 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:

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

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

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

4. GFSK was the worst case because it has highest output power

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keep Bluetooth Transmitting

Pass

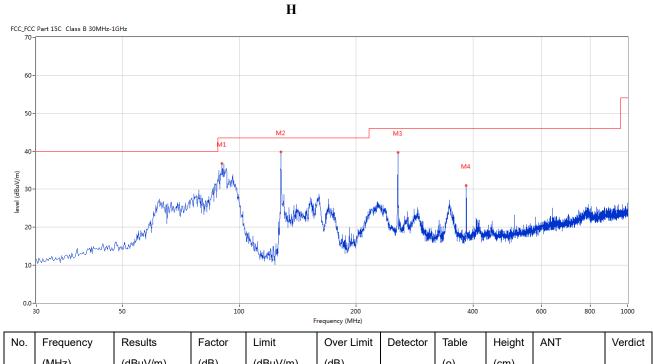
Results:

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Test Figure:



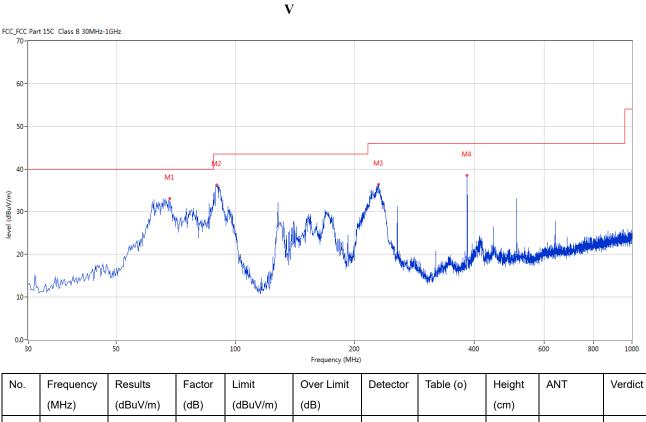
140.	ricqueriey	results	1 40101	Linne		Detector	Table	ricigitt		Vertuiet
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	90.125	36.80	-15.13	43.5	-6.70	Peak	235.00	100	Horizontal	Pass
2	127.946	39.80	-16.70	43.5	-3.70	Peak	232.00	100	Horizontal	Pass
3	255.954	39.68	-12.02	46.0	-6.32	Peak	254.00	100	Horizontal	Pass
4	383.962	31.00	-9.16	46.0	-15.00	Peak	164.00	100	Horizontal	Pass

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Test Figure:



	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	68.305	33.07	-14.82	40.0	-6.93	Peak	106.00	100	Vertical	Pass
2	89.640	36.30	-15.25	43.5	-7.20	Peak	115.00	100	Vertical	Pass
3	229.285	36.36	-12.69	46.0	-9.64	Peak	122.00	100	Vertical	Pass
4	383.962	38.48	-9.16	46.0	-7.52	Peak	13.00	100	Vertical	Pass

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

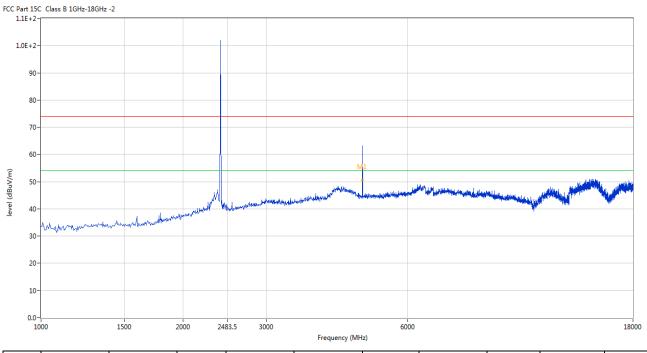
This report refers only to the sample tested and does not apply to the bluk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Horizontal

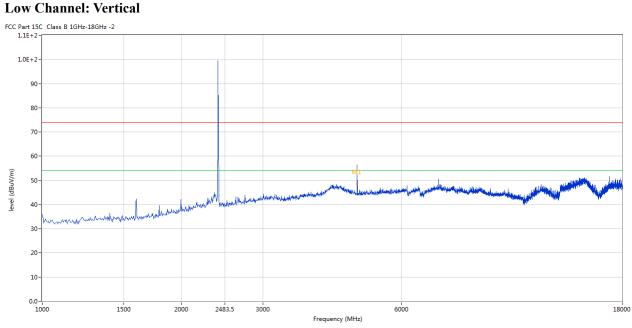


1	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
	1	4802.799	64.15	3.12	74.0	-9.85	Peak	270.00	100	Horizontal	Pass
	1**	4802.799	50.50	3.12	54.0	-3.50	AV	270.00	100	Horizontal	Pass

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Γ	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	4802.799	56.46	3.12	74.0	-17.54	Peak	263.00	100	Vertical	Pass
	1**	4802.799	48.48	3.12	54.0	-5.52	AV	263.00	100	Vertical	Pass

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Middle Channel: Horizontal



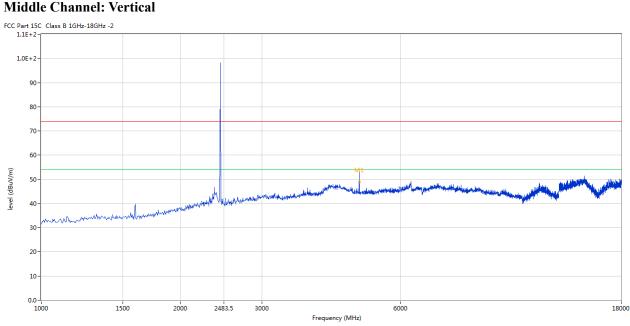
FCC Part 15C Class B 1GHz-18GHz -2 1.1E+2 1.0E+2 90 80 70 60 level (dBuV/m) 50 40 30 20 10 0.0-1500 2000 2483.5 3000 6000 18000 Frequency (MHz)

No	. Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	4879.280	64.41	3.20	74.0	-9.59	Peak	13.00	100	Horizontal	Pass
1*	4879.280	50.53	3.20	54.0	-3.47	AV	13.00	100	Horizontal	Pass

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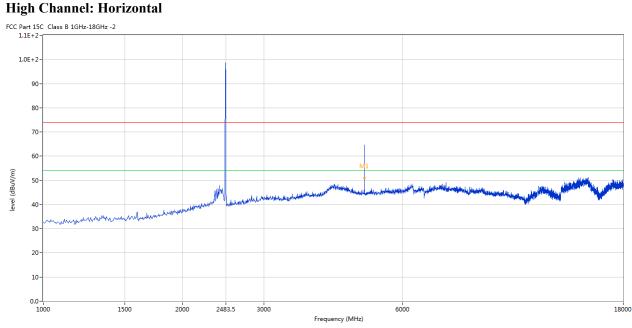


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	4879.280	59.85	3.20	74.0	-14.15	Peak	319.00	100	Vertical	Pass
1**	4879.280	48.86	3.20	54.0	-5.14	AV	319.00	100	Vertical	Pass

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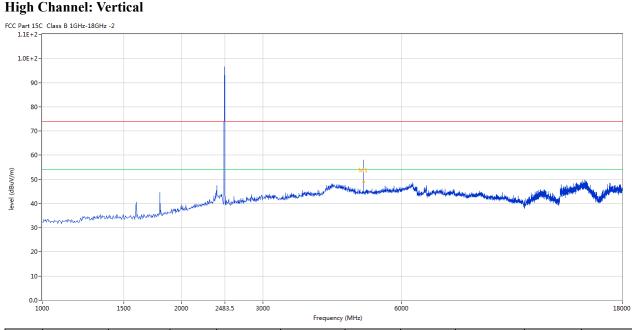


No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	4960.010	64.58	3.36	74.0	-9.42	Peak	223.00	100	Horizontal	Pass
1**	4960.010	50.89	3.36	54.0	-3.11	AV	223.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height (cm)	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)			
1	4000 040	50.00	0.00	74.0	47.07	Deals	044.00	400	Montheal	Deres
1	4960.010	56.93	3.36	74.0	-17.07	Peak	311.00	100	Vertical	Pass

Note: 1. Level = Reading + AF + Cable - Preamp

2. For the radiated emissions above 18G and Below 30MHz, it is the floor noise.

3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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adopt any other remedies which may be appropriate.



7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span =3MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation: GFSK

				n
EUT	Wireles	s Bluetooth Speaker	Model	BKS800-2
Mode	Ke	ep Transmitting	Input Voltage	120V~
Temperature		24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	1 2		Pass/ Fail
Low	2402	1022		Pass
Middle	2441	956		Pass
High	2480	2480 974		Pass

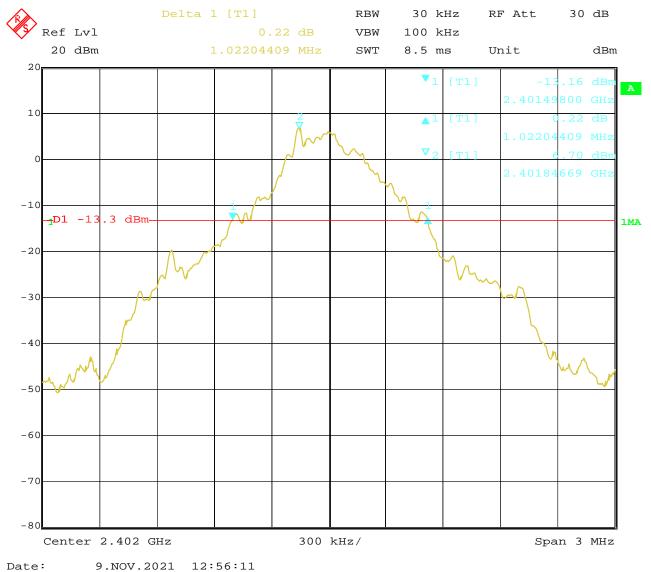
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Test Figure: **1. Condition: Low Channel**



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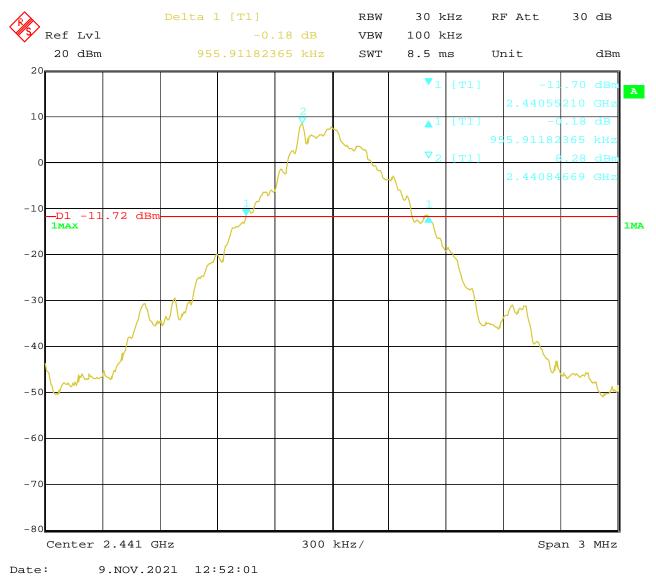
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2. Condition: Middle Channel



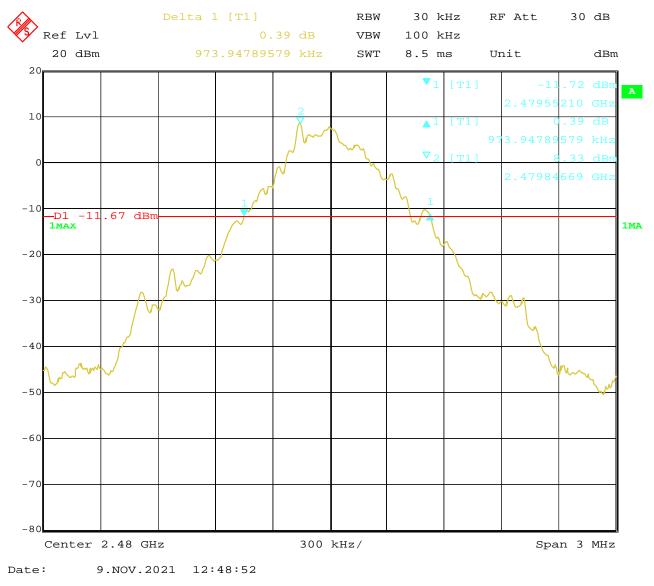
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3. High Channel



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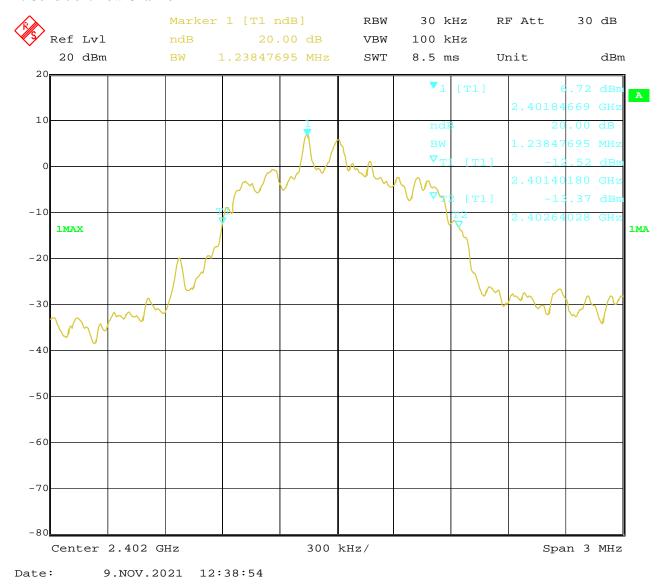
Test Result Type of Modulation: Л/4D-QPSK

EUT	Wirele	ss Bluetooth Speaker	Model	BKS800-2
Mode	K	eep Transmitting	Input Voltage	120V~
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)			Pass/ Fail
Low	2402	1238		Pass
Middle	2441	1244		Pass
High	2480	1244		Pass

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Test Figure: 1. Condition: Low Channel



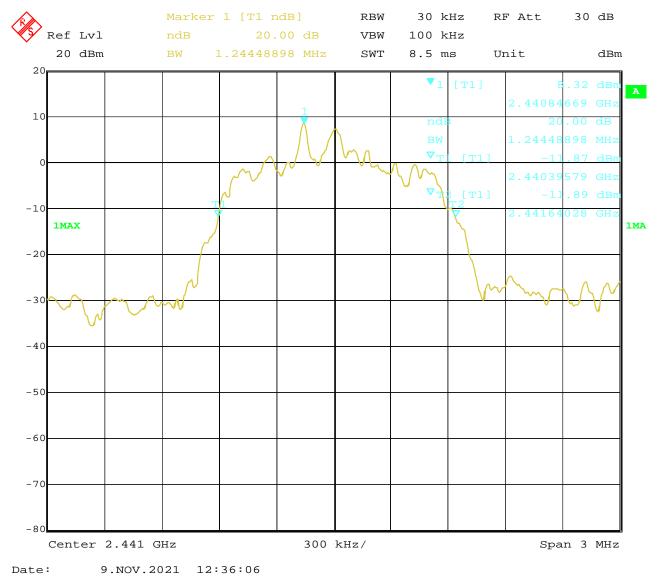
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2. Condition: Middle Channel



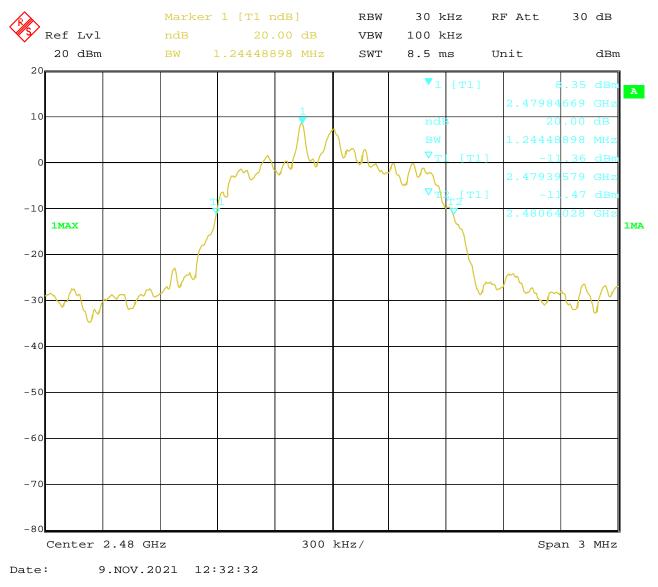
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3. High Channel



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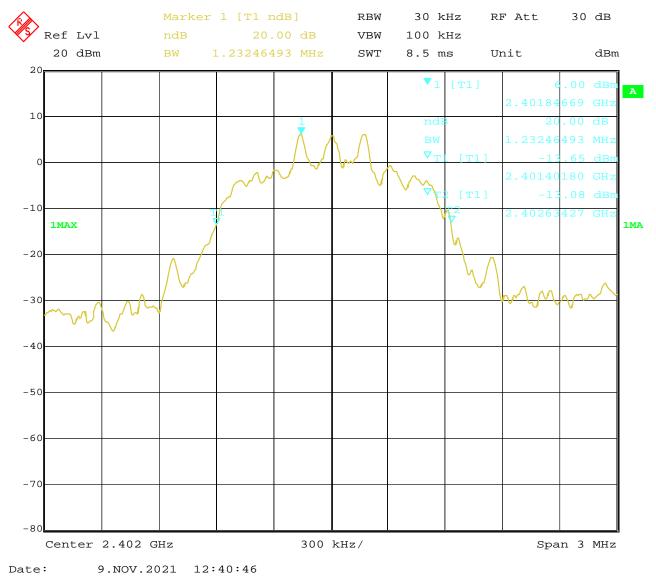
Test Result Type of Modulation: 8DPSK

EUT	Wirele	Wireless Bluetooth Speaker		BKS800-2
Mode	K	Keep Transmitting		120V~
Temperat	ure	24 deg. C,		56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1232		Pass
Middle	2441	1232		Pass
High	2480	1232		Pass

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Test Figure: 1. Condition: Low Channel



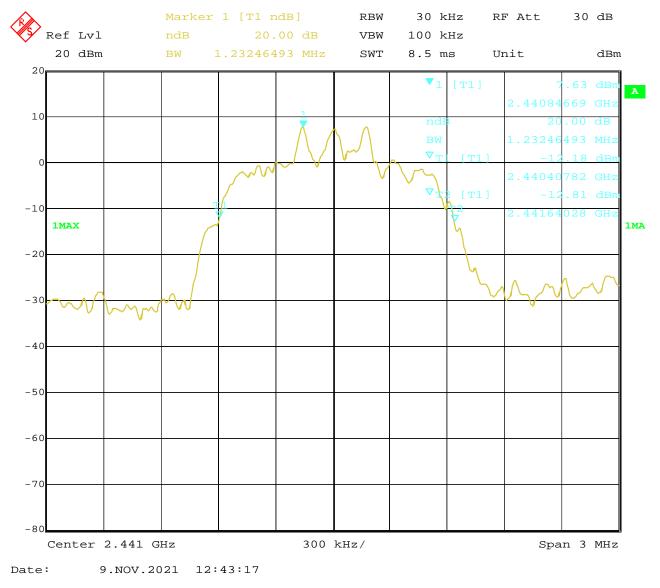
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2. Condition: Middle Channel



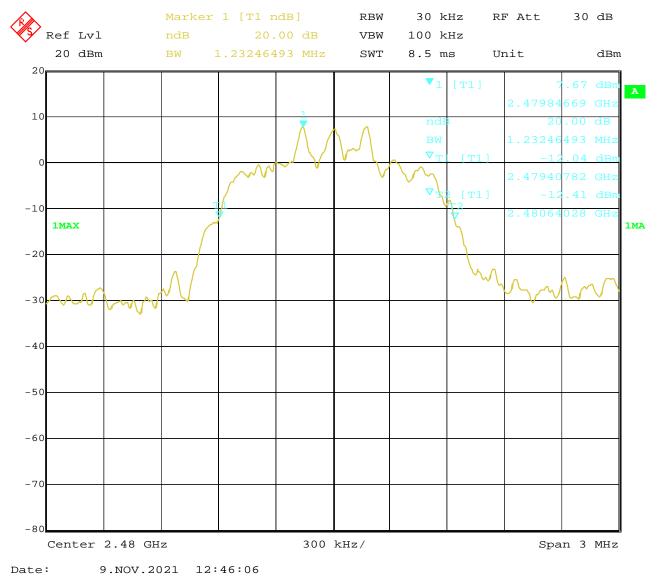
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3. High Channel



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8. Maximum Output Power 8.1 Regulation

According to \$15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to \$15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = 10MHz, RBW=3MHz; Sweep = 60s; Detector function = PK; Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.

4. Repeat above procedures until all frequencies measured were complete.

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8.4Test Results Type of Modulation: GFSK

EUT	Wirel	Wireless Bluetooth Speaker			Wireless Bluetooth Speaker Mo		Aodel	BKS800-2
Mode	k	Keep Transmitting		ep Transmitting Input Voltage				
Temperature	ature 24 deg. C, Humi		dity	56% RH				
Channel	Channel Frequency (MHz)	Max. Power Output (dBm Peak	l)	Peak Power Limit (dBm)	Pass/ Fail			
Low	2402	9.56		30	Pass			
Middle	2441	11.30		30	Pass			
High	2480	11.27		30	Pass			

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

- 2. The worst case was recorded
- 3. The Peak power was measured

Type of Modulation: Л/4D-QPSK

-JP								
EUT	Wireles	Wireless Bluetooth Speaker			Wireless Bluetooth Speaker Model		Model	BKS800-2
Mode	Ke	Keep Transmitting		Keep Transmitting Input Voltage		Voltage	120V~	
Temperature	perature 24 deg. C, Hu		Humidity		56% RH			
Channel	Channel Frequency (MHz)	Max. Power Output (dBm) Peak		Peak Power Limit (dBm)	Pass/ Fail			
Low	2402	9.36		30	Pass			
Middle	2441	10.92		30	Pass			
High	2480	11.08		30	Pass			

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

- 2. The worst case was recorded
- 3. The Peak power was measured

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adopt any other remedies which may be appropriate.



Type of Modulation: 8DPSK

EUT	Wireless Bluetooth Speaker		Ν	Model	BKS800-2	
Mode	ode Keep Transmitting		Input Voltage		120V~	
Temperature	emperature 24 deg. C, H		Hı	umidity	56% RH	
Channel		annel Frequency	Max. Power Output (dBm)		Peak Power	Pass/ Fail
Chamiler		(MHz) Peak			Limit (dBm)	
Low		2402	9.26		30	Pass
Middle		2441	10.80		30	Pass
High		2480	10.97		30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

- 2. The worst case was recorded
- 3. The Peak power was measured

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span; Video (or Average) Bandwidth (VBW) $\geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold

3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

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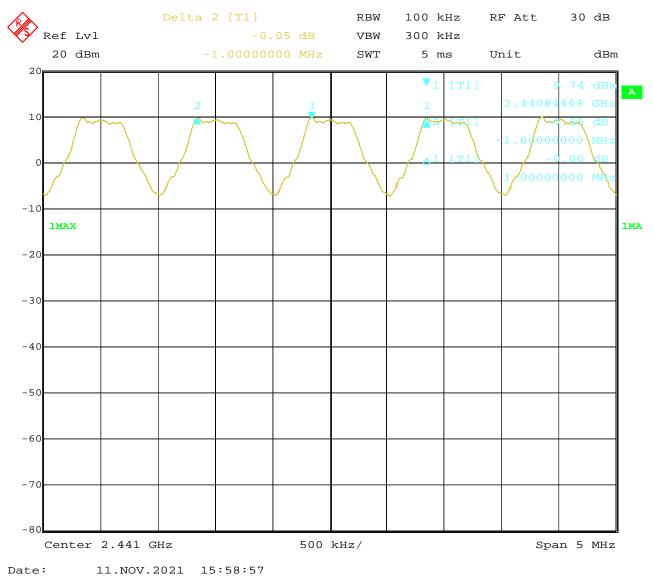


9.4Test Result

Type of Modulation: GFSK

EUT	Wireless Bluetooth	Model	E	3KS800-2	
Mode	Hopping O	Input Voltage		120V~	
Temperature	24 deg. C,		Humidity		56% RH
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2/3	of the 20 dB ban	dwidth	Pass

Test Plots



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

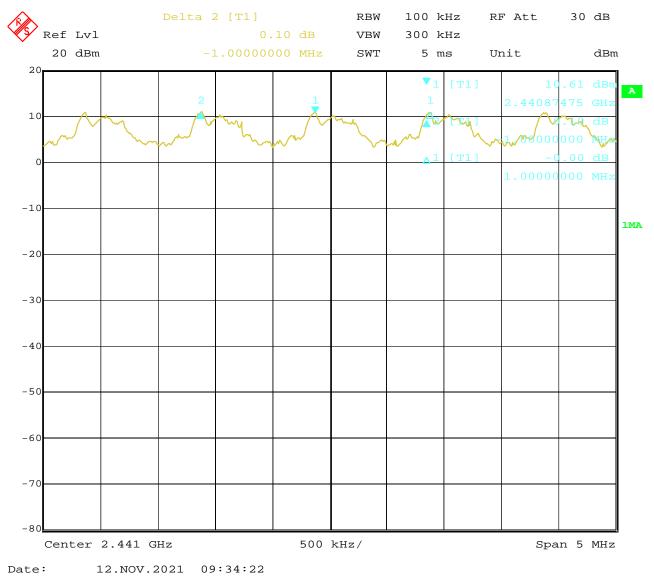
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Type of Modulation: Л/4D-QPSK

EUT	Wireless Bluetooth	Model	I	BKS800-2	
Mode	Hopping O	Input Voltage		120V~	
Temperature	24 deg. C,		Humidity		56% RH
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandy	width	Pass

Test Plots



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

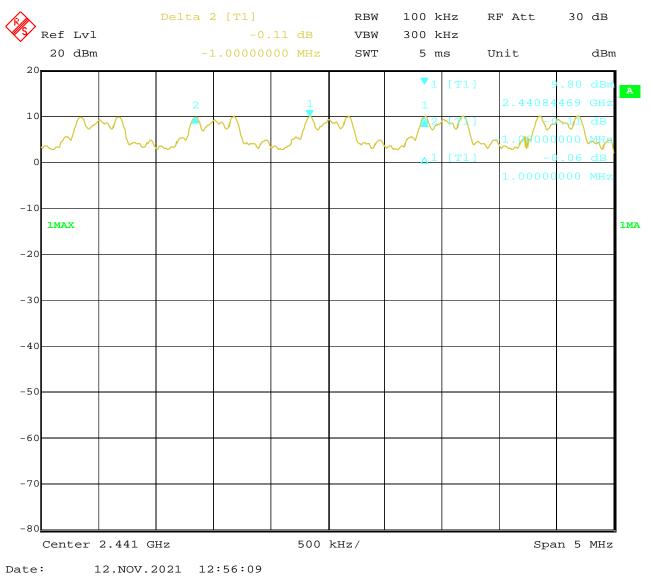
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Type of Modulation: 8DPSK

EUT	Wireless Bluetooth	Model]	BKS800-2	
Mode	Hopping O	Input Voltage		120V~	
Temperature	24 deg. C,		Humidity		56% RH
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandy	width	Pass

Test Plots



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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold

3. Record the number of hopping channels.

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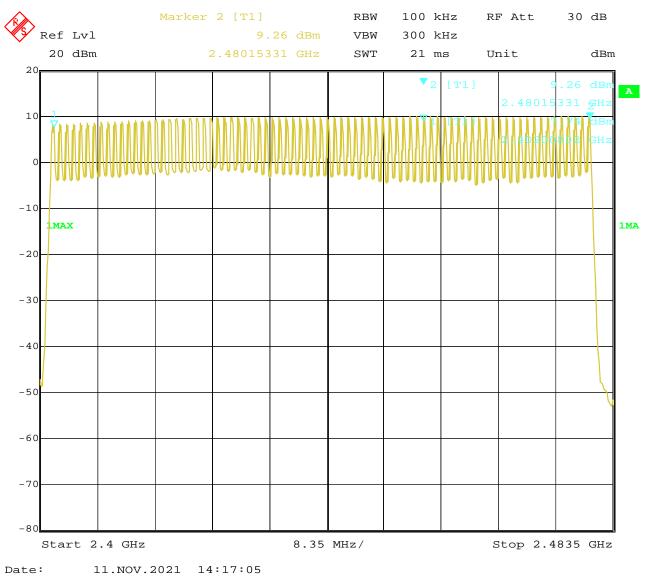


10.4Test Result

Type of Modulation: GFSK

EUT	Wireless Bluetooth Speaker		Model]	BKS800-2	
Mode	Hopping On		Input Voltage	120V~		
Temperature	2	24 deg. C,	Humidity	56% RH		
Operating Free	quency	Number of hop	ping channels	Limit	Pass/ Fail	
2402-2480MHz		79		≥15	Pass	

Test Plot



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

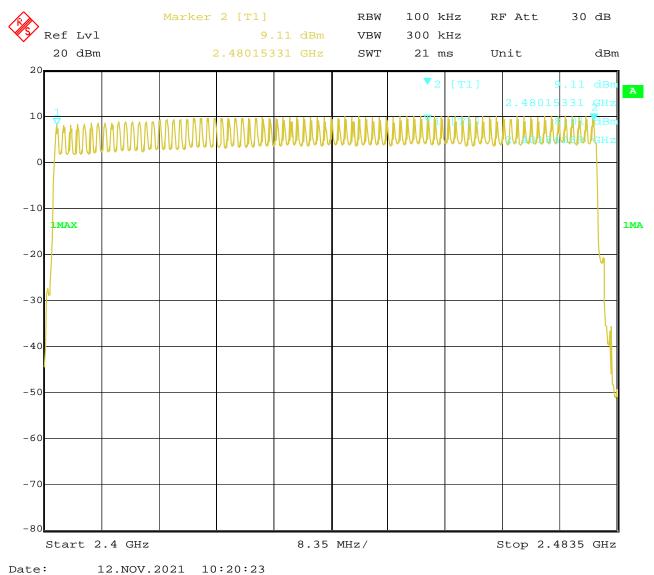
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Type of Modulation: Л/4D-QPSK

EUT	Wireless Bluetooth Speaker		Model	-	BKS800-2
Mode	Hopping On		Input Voltage	120V~	
Temperature		24 deg. C,	Humidity		56% RH
Operating Frequency		Number of hopping channels	Limit		Pass/ Fail
2402-2480MHz		79	≥15		Pass

Test Plot



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

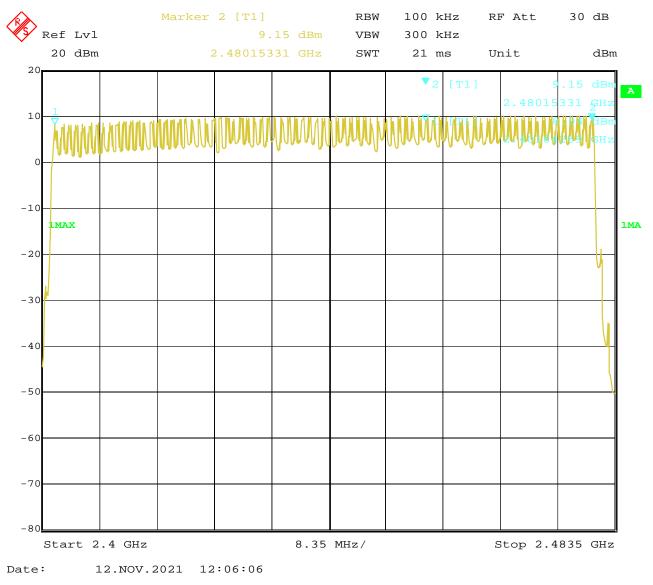
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Type of Modulation: 8DPSK

EUT	Wireless Bluetooth Speaker		М	odel		BKS800-2	
Mode	Hopping On		Input	Voltage		120V~	
Temperature	24 deg. C,		Humidity			56% RH	
Operating Frequency		Number of hoppin channels	ng	Liı	nit	Pass/ Fail	
2402-2480MHz		79		2	15	Pass	

Test Plot



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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW

RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold

3. Measure the dwell time using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result Type of Modulation: GFSK

EUT	Wireless Blu	Wireless Bluetooth Speaker		В	KS800-2				
Mode	Keep Tr	ansmitting	Input Voltage		120V~				
Temperature	24 d	eg. C,	Humidity	5	56% RH				
Channel	Reading	Hoping	Hoping Rate		Limit				
			DH1						
Middle	0.481ms	800 ł	nop/s	0.154s	0.4s				
			DH3						
Middle	1.703ms	400 ł	nop/s	0.272s	0.4s				
	DH5								
Middle	2.966ms	266.66	7 hop/s	0.316s	0.4s				

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

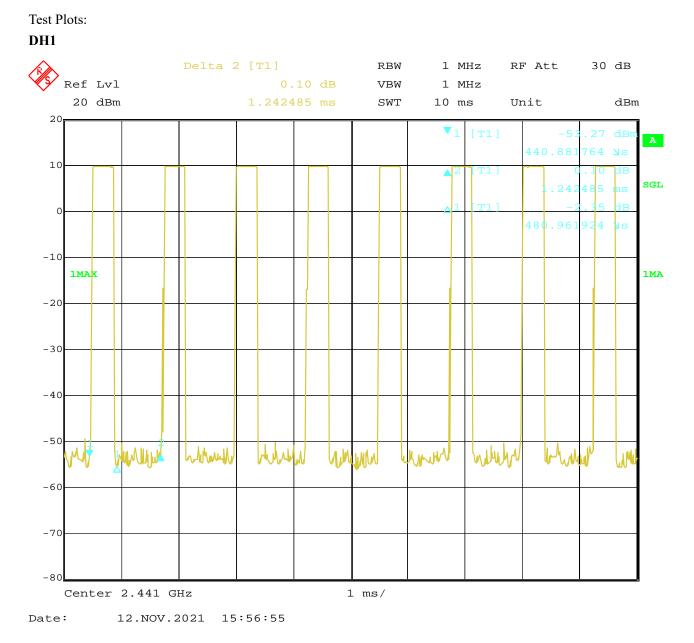
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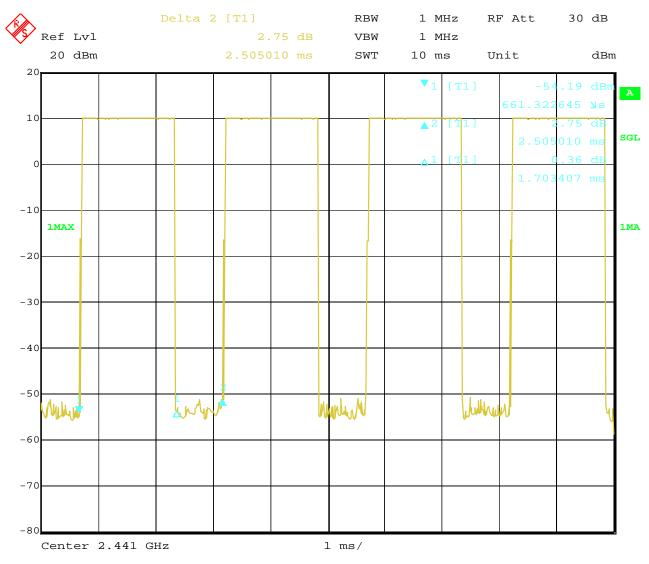
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Test Plots: **DH3**



Date: 15.NOV.2021 08:29:17

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

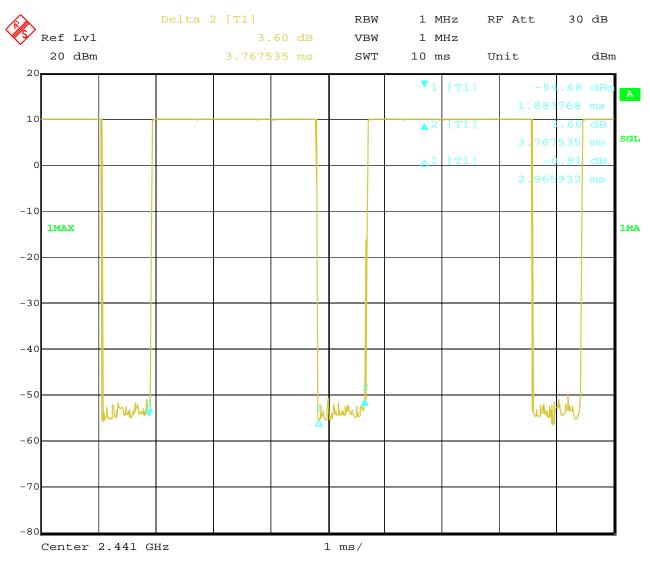
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Test Plots: DH5



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Test Result Type of Modulation: $\pi/4D$ -QPSK

EUT	Wireless Blu	Wireless Bluetooth Speaker		Bk	KS800-2				
Mode	Keep Tr	Keep Transmitting		1	20V~				
Temperatur	re 24 d	24 deg. C, Humidity		50	5% RH				
Channel	Reading	Hoping	Hoping Rate		Limit				
	DH1								
Middle	0.461ms	800 ł	nop/s	0.148s	0.4s				
			DH3						
Middle	1.723ms	400 ł	400 hop/s		0.4s				
	DH5								
Middle	3.006ms	266.667	266.667 hop/s		0.4s				

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

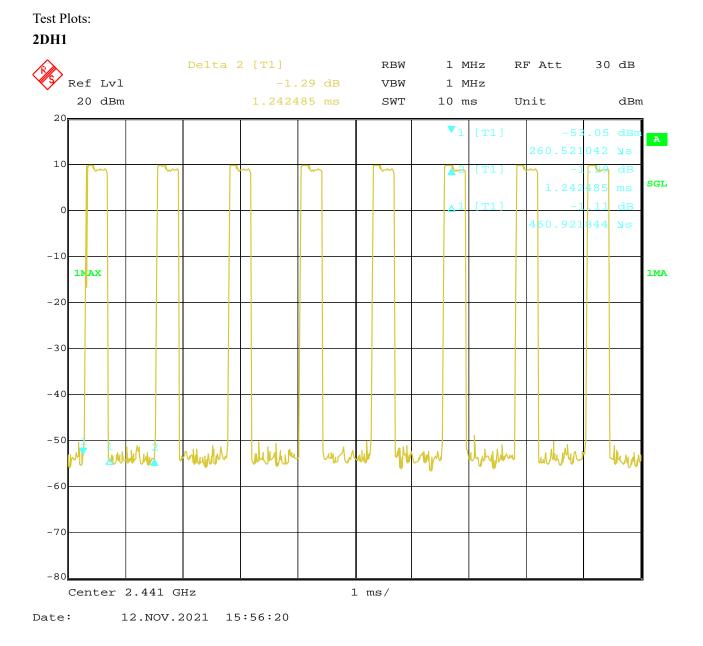
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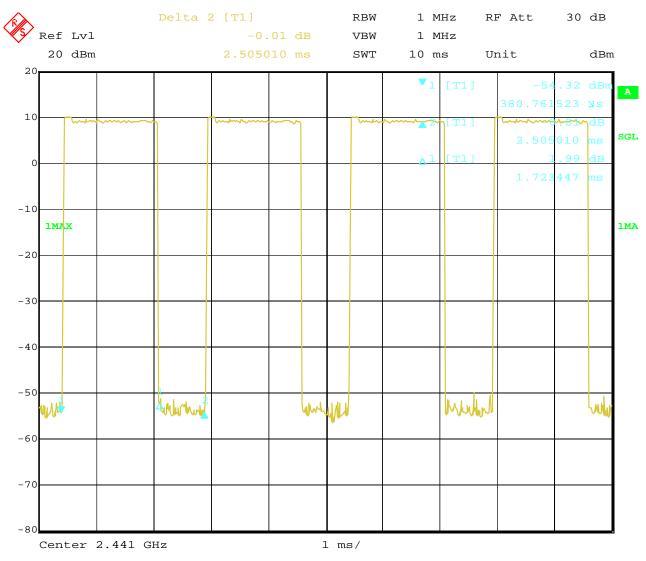
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Test Plots: **2DH3**



Date: 15.NOV.2021 08:29:49

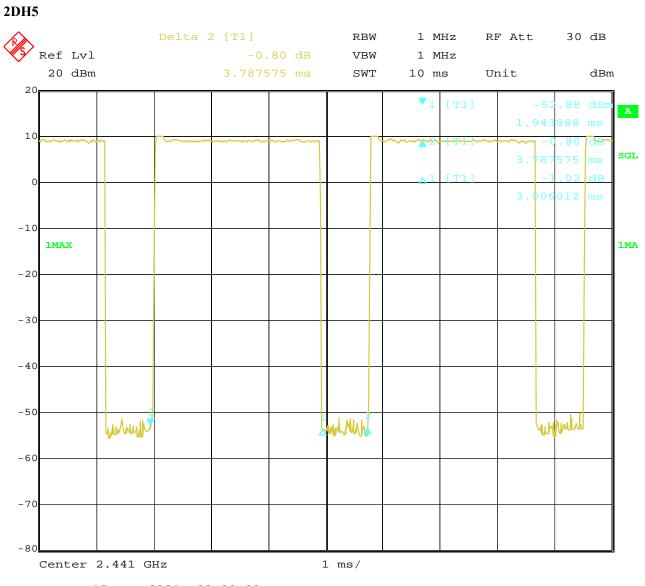
The report refers only to the sample tested and does not apply to the bulk.

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Test Plots:



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Date:

15.NOV.2021 08:30:29

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Type of Modulation: 8DPSK

EUT	Wireless Blu	Wireless Bluetooth Speaker		BI	KS800-2				
Mode	Keep Tr	Keep Transmitting			120V~				
Temperatur	e 24 d	24 deg. C, Humidity		5	6% RH				
Channel	Reading	Hoping	Hoping Rate		Limit				
	DH1								
Middle	0.461ms	800 h	nop/s	0.148s	0.4s				
			DH3						
Middle	1.723ms	400 h	nop/s	0.276s	0.4s				
	DH5								
Middle	2.986ms	266.667	7 hop/s	0.319s	0.4s				

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

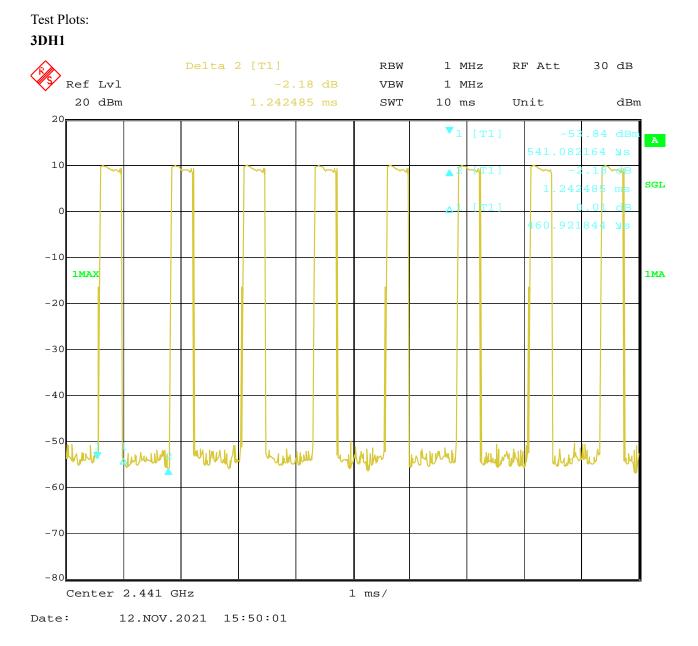
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adopt any other remedies which may be appropriate.



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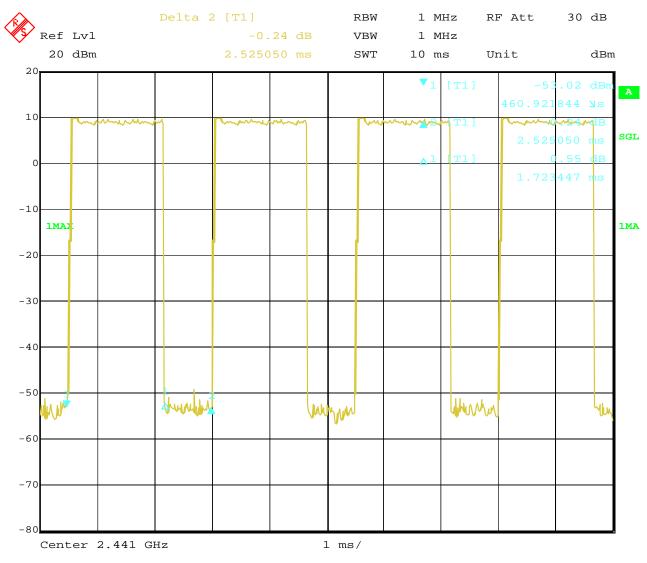
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Test Plots: 3DH3



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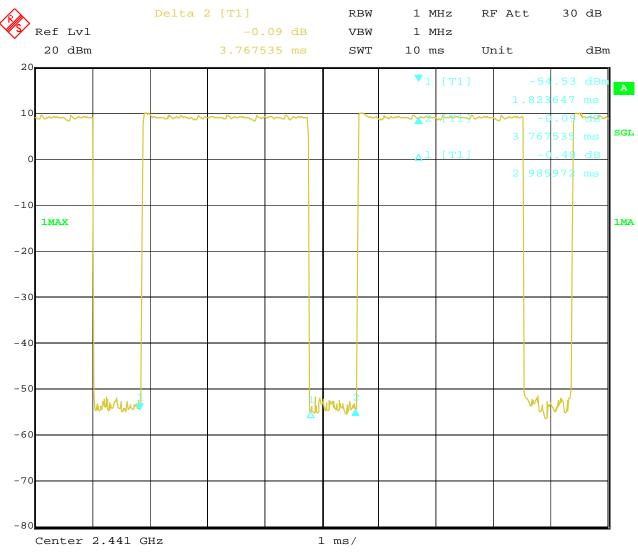
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Test Plots: 3DH5



Date:

15.NOV.2021 08:31:16

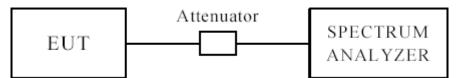
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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with RBW=VBW=1MHz and PK detector.

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:	Wireless Bluetooth Speaker					Test Mo		Low Channe		
Aode	ŀ	Keeping Ti	ransmitting	5		Input Vo	oltage	12	0V~	
Temperature		24 de	eg. C			Humidi	ty	56% RH		
Test Result:		Pa	SS			Detecto	r	РК		
Fest Figure:										
	Marker	1 [T1]		RBW	100	kHz	RF At	t 30) dB	
Ref Lvl		8.	08 dBm	VBW	300	kHz				
20 dBm	2	2.401943	89 GHz	SWT	15	ms	Unit		dBm	
20					•	1 [T1]		8.08	dBm	
						- ()	2 4	0194389		
10						2 [T1]		46.82		
							2.4	0000000	GHz	
0					V	3 [T1]		- 55.78	3 dBm	
							2.3	9000000	GHz	
-10 1MAX										
-20								$\left\{ \cdot \right\}$		
-30										
-40										
							2			
							X	4		
-50	A le la A				3			ا م آ	W.M.	
Malland	Marthall	when	horn	mullin	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m	m	00	Ver v C	
-60						_				
-70										
-80										
Start 2.35	GHz		6 М	Hz/			Ste	op 2.41	GHz	

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:	Wireles	s Bluetooth Spe	aker	Те	st Mode:	High Channe	el
Mode	Keep	oing Transmittir	ıg	Inp	ut Voltage	120V~	
Temperature		24 deg. C,		Н	umidity	56% RH	
Test Result:		Pass		Γ	Detector	РК	
Test Figure:							
R	Marker 1	[T1]	RBW	100 k	Hz RF A	Att 30 dB	
Ref Lvl		9.91 d	Bm VBW	300 k	Hz		
20 dBm	2.	47985972 G	Hz SWT	7.5 m	ıs Unit	dBm	
20				▼1	[T1]	9.91 dBm	7
		1			2.	47985972 GHz	A
10		h l		₹2	[T1]	-51.50 dBm	
					2.	48350000 GHz	
0							
-10							
1MAX						1	LMA
-20							
-30							
-40							
-50	الكر ا	2					
- Minhun	Warner	hil	menterener	Mrd aller o	Manufal	L. A. A. A.	
C 0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
-60							
-70							
-80 Start 2.4	7 GHz		3 MHz/		I	Stop 2.5 GHz	
		22:24	5				

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:	Wireless Blueto	Test Mod	le:	Hopping mode		
Mode	Hoppin	g On		Input Volt	age	120V~
Temperature	24 deg	. C,		Humidit	ty	56% RH
Test Result:	Pass	s		Detecto	or	РК
Test Figure:						
	Marker 1 [T1]	:	RBW	100 kHz	RF At	t 30 dB
Ref Lvl	8	.53 dBm	VBW	300 kHz		
20 dBm	2.40987	976 GHz	SWT	15 ms	Unit	dBm
20				▼1 [T1]		8.53 dBm
						0987976 GHz
10				▼2 [T1]]	-47.92.dBn
				_	2.4	DOOOO GHZ
0				▼ ₃ [T1]		<u>451.05 diBu</u>
					2.3	apphind di keitä
-10						
1MAX						1
-20						
-30						
-30						
-40						
				2	2	
-50	montantiture	multiple	ww	wind	Month	
and the second second						
-60						
-70						
-80						
Start 2.35 GH		6 MHz/			Sto	op 2.41 GHz

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:	Wirel	Wireless Bluetooth Speaker			Tes	st Mode:	Hopping mode			
Mode		Hopping	g On		Inpu	ıt Voltage		120V~		
Temperature		24 deg.	С,		Hı	umidity	5	56% RH		
Test Result:		Pass			D	etector		РК		
est Figure:										
	Marker	1 [T1]		RBW	100 k	Hz RF	'Att	30 di	3	
Ref Lvl		9.	.86 dBm	VBW	300 k	Hz				
20 dBm		2.470841	L68 GHz	SWT	7.5 m	ns Ur	nit	dl	Зm	
20					v ₁	[T1]	9	.86 dI	3m	
1							2.47084	168 GH	Iz	
	MANMI	h h			₹2	[T1]	-53	.92 dI	3m	
							2.48350	000 GH	Iz	
0	┼╲┼┞╎╴╲┼								_	
	J V V V									
-10										
1MAX									1	
-20										
-30										
-40										
		L L								
F.0.										
-50			Millin	MANEN ALLE	miller.	Munum	Munnah	hanne	4	
					- Were with	4. VU VV	V/r V V *		-	
-60										
-70										
-80							Stop			

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Type of Modulation: Л/4D-QPSK

Out of Band Test Result 12.4

Product:	Wireless Bluetooth Speaker				Test Mo	de:	Lo	w Chan	nel
Aode	Keep	ing Transr	nitting		Input Vo	ltage		120V~	
Temperature		24 deg. C	2		Humidit	y	56% RH PK		
Test Result:		Pass			Detector	ſ			
Fest Figure:									
k A	Marker	1 [T1]		RBW	100 }	kHz	RF Att	30	dB
🚺 Ref Lvl		8.	.06 dBm	VBW	300]	ĸHz			
20 dBm	:	2.401943	389 GHz	SWT	15 r	ns	Unit		dBm
20					▼1	[T1]		8.06	dBm
							2.401		
10					₹2	[T1]	1		dBm
							2.400	00000	GHz
0					▼3	[T1]		54.47	dBm
							2.390	00000	GHz
-10						-			
1MAX									1
-20									
								4	
2.0							r r		
-30									
-40								<u> </u>	
-50							W	<u> </u>	
at a de la	h u a		mulu	1. Mr. Mr. Ml	anter and		s du	- Wh	M. n
- WWW - M		mun	wwwwww	www.	when we we	www	~		
-60						+			
-70						<u> </u>			
-80									
-80	<u>au</u> -		6 M				Gtop	2.41	

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Type of Modulation: Л/4D-QPSK

Band Edge Test Result 12.4

Product:	Wireless Blueto		Test Mode:	High Channel
Mode	Keeping Tra	nsmitting	Input Voltage	120V~
Temperature	24 deg	g. C	Humidity	56% RH
Test Result:	Pass	8	Detector	РК
Fest Figure:				
	Marker 1 [T1]	RBW	100 kHz RF A	Att 30 dB
Ref Lvl 20 dBm	9 2.47985	.91 dBm VBW 972 GHz SWT	300 kHz 7.5 ms Unit	dBm
20			▼1 [T1]	9.91 dBm
10	1		2.	47985972 GHz
10	Λ		V 2 [T1]	-47.47 dBm 48350000 GHz
0			۷.	48350000 GHZ
0				
-10				
1MAX				1M
-20	T al M			
	V			
-30				
-40		M		
10		2		
-50	whether	Mul mud as a sheet		h an a
				mannin
-60				
-70				
- , 0				
-80				
Start 2.47 GH	Iz	3 MHz/		Stop 2.5 GHz

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Type of Modulation: Л/4D-QPSK

Out of Band Test Result 12.4

Product:	Wireless H	Test	Mode:	Hopping mod			
Mode	Но	opping On		Input	Voltage	12	20V~
Temperature	2	4 deg. C		Hur	nidity	56% RH	
Test Result:		Pass		Det	tector	РК	
Test Figure:							
	Marker 1 (T1]	RBW	100 kH	z RF	Att	30 dB
Ref Lvl		8.64 dBm	VBW	300 kH	z		
20 dBm	2.41	.000000 GHz	SWT	15 ms	Uni	t	dBm
20				▼1 1	m11		
				• + 1	[T1]	. 410000	64 ABM 00 GHz
10				₹2	T1]	-46.	0.1 dBm
						.400000	D 0 GHZ
0				▼3	T1]	<u>Asp</u>	52 dBm
					2	.390000	00 GHz
-10							-
							-
-20							
-30						- <u>V</u>	
-40							
						2	
						Ň	
-50	and have had	hundunnah	Loulum	1 month	Manne		
will farm with							
-60							
-70							
-80							
Start 2.35	GHz	б М	IHz/			Stop 2.	41 GHz

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Type of Modulation: Л/4D-QPSK

Out of Band Test Result 12.4

Product:	Wireless Bluetooth Speaker				st Mode:	Hopping mode			
Mode		Hopping	On		Input	Voltage		120V~	
Temperature		24 deg.	С		Humi	dity	5	6% RH	
Test Result:		Pass			D	etector		РК	
Test Figure:									
k A	Marker	1 [T1]		RBW	100 ł	cHz RF	'Att	30 de	3
Ref Lvl		9.	90 dBm	VBW	300 }	cHz			
20 dBm	:	2.472885	77 GHz	SWT	7.5 r	ns Ur	nit	dE	ßm
20					▼1	[T1]	9	.90 dB	m
1							2.47288	577 GH	z
	MMMM				₹2	[T1]	-48	.85 dB	m
		٧٢					2.48350	000 GH	z
0									-
-10									-
1MAX									1
-20									
		W							
-30									_
-40		V	<u>А</u>						
-50			<u><u> </u></u>						
50			Men	amma	Mm.nu.	nu laken	Manna	whenhal	
					· · · ·		•	•	
-60									1
-70									1
-80				Hz/				2.5 GH	

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Type of Modulation: 8DPSK

12.4 Band Edge Test Result

roduct:		less Bluetooth Spea		Test Mode:	Low Channel
ode	K	eeping Transmitting		Input Voltage	120V~
emperature		24 deg. C		Humidity	56% RH
est Result:		Pass		Detector	РК
est Figure:					
Ref Lvl	Marker	1 [T1] 8.17 dBm		100 kHz RF # 300 kHz	Att 30 dB
20 dBm	2	2.40194389 GHz	SWT	15 ms Unit	dBm
20				_	
				▼1 [T1]	8.17 dBm 40194389 GHz
10				² . ▼2 [T1]	40194389 GHz 1 • 44.18 dBm
					40000000 GHz
0				▼ ₃ [T1]	-55.10 dBm
				2.	39000000 GHz
-10					
1MAX					1M
-20					V I
					N
-30					
-40					
				ليس ا	× (, , , , , , , , , , , , , , , , , , ,
-50				2	N
manne	mount	Multer parenter	monum	man when	~\uv
-60					
-70					
-80					
Start 2.35	GHz	6 1	MHz/	S	top 2.41 GHz

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Type of Modulation: 8DPSK

Band Edge Test Result 12.4

Product:	Wireless Blueto	oth Speake	r	Те	st Mode	e:	H	ligh Ch	annel
Mode	Keeping Tran	nsmitting		Inp	ut Volta	ge		1201	/~
Temperature	24 deg	. C		Н	umidity	7		56%	RH
Test Result:	Pass			Ι	Detector			РК	-
Test Figure:									
<u>k</u>	Marker 1 [T1]		RBW	100 k	Hz	RF A	tt	30 d	lв
Ref Lvl		.97 dBm	VBW	300 k					
20 dBm	2.48022	044 GHz	SWT	7.5 π	ເຮ	Unit		C	dBm
20				v 1	[T1]		9	.97 d	lBm
1.0	1					2.4	48022	044 G	Hz
10	M			₹2	[T1]		-45		lBm
	$\left(\right)$					2.4	48350	000 G	Hz
0									
-10									
1MAX									1MA
-20									
-30									
		٨							
-40									
	V	2							
-50	a hour					_			
Monthall	and a	1 m	mentre	man	melle	non	entron	mila	1 AU
-60									¥
-70									
-80									
-80 Start 2.47 (GHz	3 M	Hz/				Stop	2.5 0	Hz
Date: 12.NO	V.2021 15:12:46								

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Type of Modulation: 8DPSK

Band Edge Test Result 12.4

Product:	Wireless Bluetooth Spea	ker	Test Mode:	Hopping mode
Mode	Hopping On		Input Voltage	120V~
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	РК
Test Figure:				
<u>ka</u>	Marker 1 [T1]	RBW	100 kHz RF	Att 30 dB
Ref Lvl	8.15 dBn	n VBW	300 kHz	
20 dBm	2.40230461 GHz	z SWT	15 ms Uni	it dBm
20			▼1 [T1]	8.15 dBm
				A.40230461 GHz
10			▼2 [T1]	1 744.95 dBm
			2	.4000000 GHz
0			▼ ₃ [T1]	<u>-62.94</u> dBm
			2	.39 <mark>000000 GHz</mark>
-10				
1MAX				1MA
20				
-20				
-30				
-40				2
				7
-50				<u>الر</u>
renderlander	Manun My marken Marker Ma	Muliturn	1 manual and a second	
-60				
-70				
-80 Start 2.35	CHR	MHz/		Stop 2 41 CUT
		MUZ /		Stop 2.41 GHz
Date: 12.No	ov.2021 13:57:09			

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Type of Modulation: 8DPSK

Band Edge Test Result 12.4

Product:	Wirel	ess Blueto	oth Speake	er	Tes	st Mode:	Hopp	oing mod	le	
Mode		Hopping	g On		Input	Voltage	1	20V~		
Temperature		24 deg.	. C		Humi	dity	56	56% RH		
Test Result:		Pass			D	etector		РК		
Test Figure:										
R	Marker	1 [T1]		RBW	100 k	Hz RE	Att	30 di	В	
Ref Lvl		10.	.12 dBm	VBW	300 k	Hz				
20 dBm	2	2.474208	342 GHz	SWT	7.5 m	ns Ur	nit	dl	Bm	
20					v ₁	[T1]	10	.12 dI	Зm	
	1						2.47420	842 GH	Iz	
	MMMMM	MM			₹2	[T1]	-47	.19 dI	Зm	
$W \vee V \vee$		WY					2.48350	000 GH	Iz	
0										
-10									_	
1MAX									11	
-20										
		Ψŋ								
-30									_	
-40			И							
			2							
-50			- W	National	المرابع المراجع	mm			4.4	
							- Maria	- Com	<i>w</i> .	
-60										
-70									-	
-80										
Start 2.4	7 GHz		З М	IHz/			Stop	2.5 GH	Iz	
Date: 12	.NOV.2021 13	8:53:55								

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	EUT	Wirele	ss Bluetoot	h Speaker		Model			BKS800-2	2
Mode		Ke	Keep Transmitting		Input Voltage		120V~			
Temperature			24 deg. C		Humidity		ty	56% RH		
Te	est Result:		Pass		М	odulation	Туре		GFSK	
C Part 1.1E+	15C Class B 1GHz-18GH	z -2								
٤	-2- 							/	\bigwedge	
	50-							/	N N	N
	50 -								11	
	50 - 50 - 40 -	markine the states of the second	ingeleller fa jaarke mysele beker bete	nation that we do not a state of the second	hán Árland an fair faile an fairte an ch	Marije Jiller Lange Hare	M2		11 •	
		haadstart alge a de alle and an	ngalokkinga jarten Maladah déka	ysiyihin alafaran afiriyida	hand a start of the start start start of the	ne in first and a state	M2		11 •	N. Nulley
2		han billion an	ngibelinde, and a said distribution	yarında yaşıkarak	handel and the first state of the	nerik järleinet	M2		•	
	50 - 10 - 30 -	naa jariin waa jarin aharan jariin ahara	ngalakturla jur ^{da n} isiajahiniki	ngi piring di sana sa fini sa si	an bhain an gu gu dhain an gu	Morton Horton	M2		•	No.
3	50 - - - - - - - - - - - - - -	han girling of the start of the	ogibelinde, ander Sala, dindek	yirir ^{inda} n da Katala (hiran da	ya hara na sa	North States	M2		•	
3	50 - 10 - 30 - 20 -	han bistored and have a series	ngalaktinake, ander taskadaktika	yaan hada ahaa ahaa ahaa ahaa ahaa ahaa a	Frequency (MH	12)	M2		•	241
	50 - - 20 - 10 - .0 -	Results	Factor Lin	mit Ov	Frequency (MH	tz) Detector	Table (o)		41 • •	1
· · · · · · · · · · · · · · · · · · ·	50 - 10 - 10 - 10 - 2350	Results (dBuV/m)		mit Ov BuV/m) (dl	ver Limit			ante anime Maddie	•	241 Verdic

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12.4 Restrict Band Measure	ement
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EUT		Wireless Bluetooth Speaker			er	Model		BKS800-2		
Mode		Keep Transmitting			In	Input Voltage		120V~		
Temperature		24 deg. C,]	Humidity		56% RH			
Test Result:			Pass		Mod	Modulation Type		GFSK		
CC Part 15 1.1E+2	iC Class B 1GHz-18GHz	-2			•					
1.0E+2	-								\sim	
90	_								/	
80	-								/	
										$\left\{ \cdots \right\}$
70	-									
70										\mathbf{A}
60								/	M1	
60		human hara shered	Litelian Scales States	unde Allen and Allen and Anna Married	him either surrest	nukato, sokada utiko al en er			•	
60 E		han and have been a start of the	hylpher a ceiger a free	i tale film and film the state film the state	derry a derry simeralist	udaturalist-production		wordelike	M1 •	and a
60	- - - A behaviorenterregentliken	hanter her hand hand hand hand hand hand hand hand	hyblionisteryothines	isteriota anti-	detter for a for the second state	uchter algebrachter a			M1 •	and a
60 50 40	- - - - -	in an have been a start of the	hybitan daara	ight Maganakhisa, ghaint h	dittal for the site of the sit	terkstatenskapet og skonteg			M1 .	- Contraction of the contraction
60 50 90 90 90 90 90 90 90 90 90 90 90 90 90	- - - - - -	handlik king di manga da pang	hybitern folgen frank	Lata Maria Maria di Sara di Sar	ditra for a for a for a formation of the	terikteter können som		undhuhun	M1 •	Numper la construction de la con
60 (ш/үлэр) эмэ 30 30 20 10 0.0	- - - - - -	hanny ha king di mang di sebagai d	highter to the second second	Laite Maria Mitta an Statistic	http://www.ite	terihatek singal ya ibiyat waq			•	24
60 (ш/үлэр) эмэ 30 30 20 10 0.0	- ha bahrungan tanga bahra	to any the second s	liybi peristrupat Alasan	izala Maganalkhaga jitaniya 	Frequency (M	Hz)			M1	24
60 50 50 90 90 90 90 90 90 90 90 90 90 90 90 90		Results	Factor	Limit			Table (o)	Height	•	T
60 (ш/үлэр) эмэ 30 30 20 10 0.0	- ha bahrungan tanga bahra	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (M Over Limit (dB)		Table (o)	Height (cm)	ANT	24 Verdict

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12.4 **Restrict Band Measurement**

	EUT	Wirele	ess Blueto	oth Speaker		Model			BKS800-2				
	Mode	K	eep Trans	mitting]	Input Voltag	ge		120V~				
Te	mperature		24 deg.	С,		Humidity			56% RH				
Te	est Result:		Pass		M	odulation T	ype		GFSK				
CC Part 1 1.1E+	15C Class B 1GHz-18GH	z -2											
1.0E+	2-												
٥	10 -		كسر										
			<i></i>	$\sim \lambda$									
				\									
7	10 -		1	`	h								
			1		k								
6			r		M1 M		M1 *********						
(E) 5	i0 -	كمسم للقود وقارب وروا	r		M1 Mm								
(E) 5		and the second s	r		Mi	- Alter Mary Mary and	R.H.Joneshikajina katala ka	had shared to share	antinterretury of the south of the second second	erene al anti-			
(m//m) 5	i0 -	AND	<u></u>		M2 May have been been been been been been been be	- elementerinensiste	addressign by provident start of	hut barbara	ne stand and for a stand and for a stand				
level (dBuV/m) 4 3	io-	un and a start of the start of	<u></u>			- Alexandra and a second second	endonoside prima administrativa	hall ลังเราได้เราสู่สังเราสาม	ગ્લેક) જે કરવા છે. તે છે કરવા છે. તે છે કરવા છે. કરવા છે. જે છે જે જે જે છે	and the second			
evel (dBuV/m) 4 8	:0- 	AND	<u></u>			- Alessander Helen Harder	radonalikainin admonatika	habder of the state of the stat	ર્યુકોને અને અને અને અને અને અને અને અને અને અ	to phy of a life of			
(س/ш) اوروا (grn/u) 3 2 1	0	un and a state of the state of				- Aleksetelerinensiset	onder eine der standen standen.	ttak din di kana	ารรัฐสารสารสารสารสารสารสารสารสาร				
(W/\ngp) 900-04 3 2 1	00- 00- 00- 00-	un and a state of the state of	<u></u>		M1 M		nalisense alemente a	++++++================================	પ્લંકોમેલ્ડા દર છોત્સી જે કરી છે. કરવા છે. 	2500			
(سار) ۱ ۱ ۱	0	Results	Factor	Limit			Table (o)	Height	ANT				
(۲۵۵۵ (Man) ۱۹۹۹ (Man) ۱۹۹	0		Factor (dB)	Limit (dBuV/m)	Frequency (MHz)				2500			
(۲۵۵۵ (Man) ۱۹۹۹ (Man) ۱۹۹	0	Results			Frequency (MHz)		Height		2500			

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	EUT	Wirele	ess Bluetoo	oth Speaker		Model		BKS800-2			
Mode		Keep Transmitting			Ir	Input Voltage		120V~			
Temperature			24 deg. C,			Humidity			56% RH		
Test Result:			Pass			Modulation Type		GFSK			
CC Part 1 1.1E+	15C Class B 1GHz-18GHz	z -2									
1.0E+	2-		5	m l							
9	10 -			- M							
8			\rightarrow	$-\lambda$							
7			-{	/_							
			1								
6	i0 -	,			No.						
				Α	- M						
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(dBuV/m) 6vel (dBuV/m) 3 2	:0 - 	on and a side of the		4		neder-energeleigebeigetet		udlal Wisconst	lahil Mulacaki		
(um//m) 5 4 4 3 2 2 1 1	io - io - io - io - io - io - io - io - io -	ang demina ba gint ding da				ostolo en estalista bilen estalista	adillaluationalistica	e Allah Nyana and	lahel di kara sh		
(grand) 	io - io			N	83.5 Frequency (MHz)	atthe magnification before the second se	valittaluukustaasin ay	eddad Wyserendd	ladal ulikurana	2500	
(um//m) 5 4 4 3 2 2 1 1	io - io - io - io - io - io - io - io - io -	Results	Factor	24 Limit	83.5	Detector	Table (o)	Height	ANT	2500	
(fu (1997) (fu (1997)) (fu (1997) (fu (1997)) (fu (1997)	0		Factor (dB)		83.5 Frequency (MHz)					2500	
(₩/\n_5) eave 3 2 1 1	0	Results		Limit	83.5 Frequency (MHz) Over Limit			Height			

12.4 **Restrict Band Measurement**

Note: 1. For Restricted band test, All modulation mode was tested and only the worst case was reported. GFSK was the worst case.

2. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

PCB antenna used. The gain of the antennas is 2.0dBi.

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14.0 FCC ID Label

FCC ID: RBD-BKS800-2

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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15.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



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Outside View



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Outside View



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Outside View



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Outside View



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Outside View



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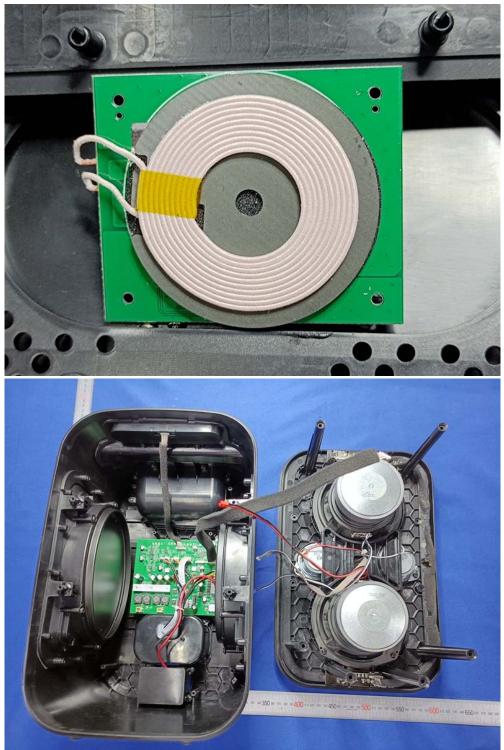
Inside View



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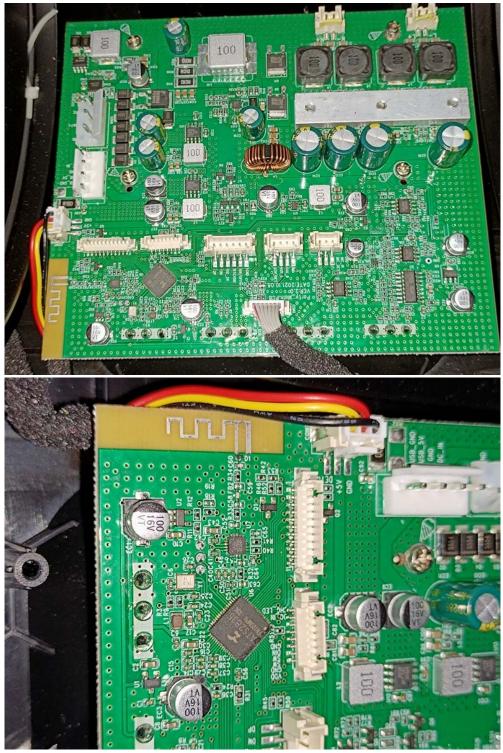
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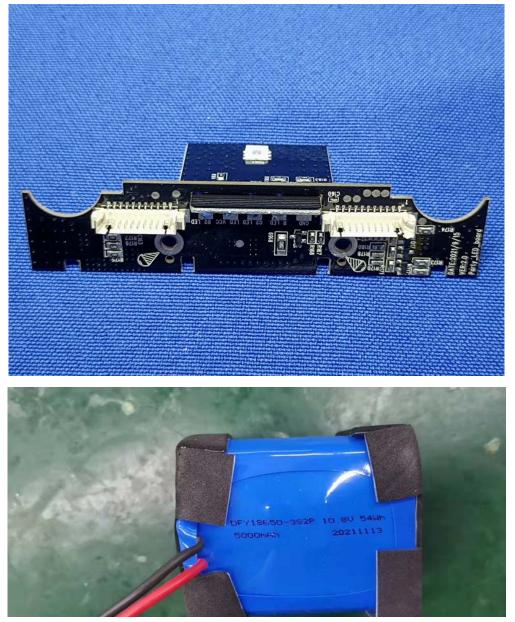
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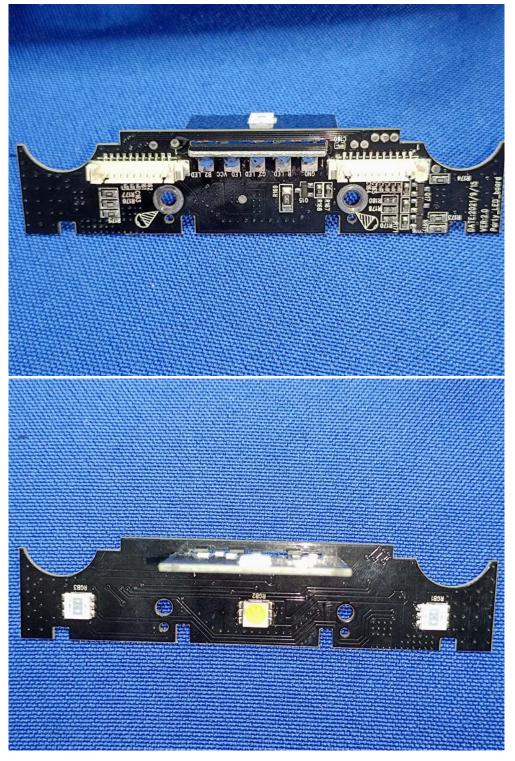
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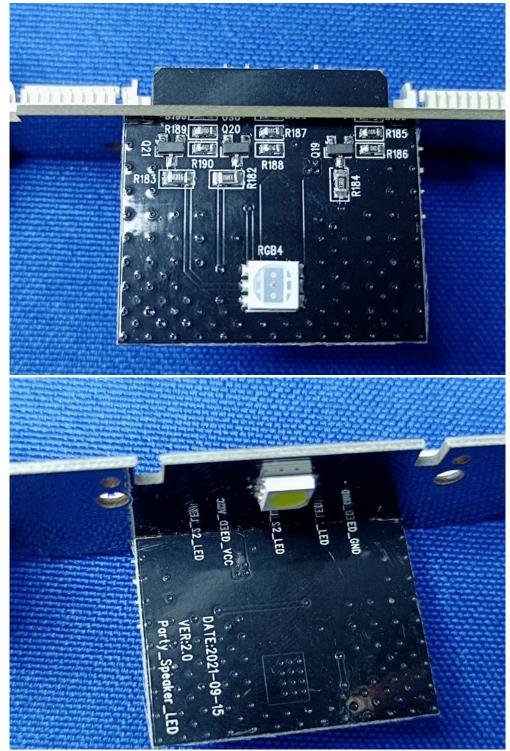
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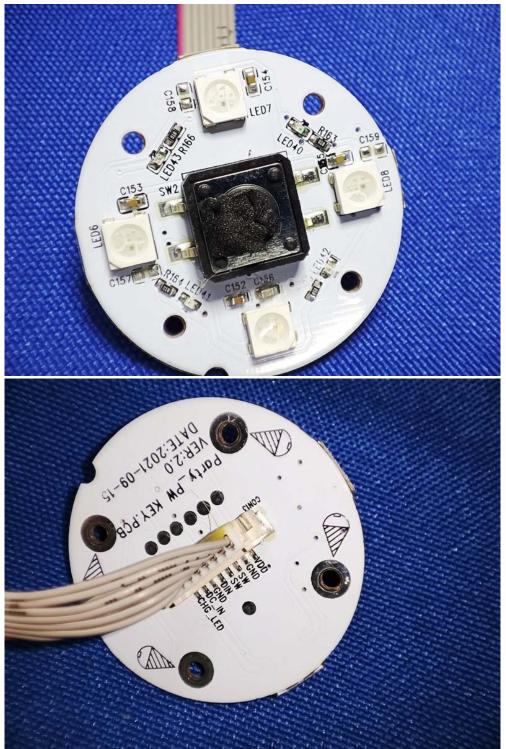
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--End of Report--

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