

Report No .: FCC 1911048-02 File Reference No.: 2020-04-01 Applicant: Shenzhen Jingwah Information Technology Co., Ltd. Product: Wireless Bluetooth Speaker Model No.: **BKS800** Trademark: Brookstone Test Standards: FCC Part 15.247 It is herewith confirmed and found to comply with the Test Result: requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated:

April 01, 2020

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 Fax: (755) 83442996 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:	0755-84688843						
Fax:	0755-83976520						

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
Brand Name:	Brookstone
Model Number:	BKS800
Additional Model Num	ıber: N/A
Type of Modulation	GFSK, JI/4DQPSK, 8DPSK for Bluetooth
Frequency range	2402-2480MHz for Bluetooth
Channel Spacing	1MHz for Bluetooth
Frequency Selection	By software
Channel Number	79 channel for Bluetooth
Antenna:	PCB antenna used. The gain of the antennas is 2.0dBi
Input:	DC20V,3.25A
Battery:	DC11.1V, 5000mAh,55.5wh, 18650 Li-ion battery
Power Supply:	Model: JHD-AD065C-200325; Input:100-240V~, 50/60Hz, 1.5A;
	Output: DC20V, 3.25A

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- Submitted Sample: 1 Samples 1.4
- 1.5 Test Duration 2019-11-07 to 2020-04-01
- Test Uncertainty 1.6 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%
- Test Engineer 1.7

Terry lang

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	2019-06-21	2020-06-20
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2019-06-21	2020-06-20
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2019-06-21	2020-06-20
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2019-06-21	2020-06-20
Loop Antenna	EMCO	6507	00078608	2020-06-20	2020-06-20
Spectrum	R&S	FSIQ26	100292	2019-06-21	2020-06-20
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2020-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2019-08-22	2020-08-21
Power sensor	Anritsu	MA2491A	32263	2019-08-22	2020-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2019-06-21	2020-06-20
EMI Test Receiver	RS	ESH3	860904/006	2019-06-21	2020-06-20
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2019-06-21	2020-06-20
Spectrum	HP/Agilent	E4407B	MY50441392	2019-06-21	2020-06-20
Spectrum	RS	FSP	1164.4391.38	2020-01-19	2021-01-18
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2019-06-21	2020-06-20
RF Cable	Zhengdi	7m		2019-06-21	2020-06-20
RF Switch	EM	EMSW18	060391	2019-06-21	2020-06-20
Pre-Amplifier	Schwarebeck	BBV9743	#218	2019-06-21	2020-06-20
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2019-06-21	2020-06-20
LISN	SCHAFFNER	NNB42	00012	2020-01-07	2021-01-06

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3.0 **Technical Details**

3.1 Summary of test results

The EUT has been tested according to the following specifications:						
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(a), 15.107	PASS	Complies			
RF Exposure	15.247 i), 1.1307(b)(1)	PASS	Complies			

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 **EUT Modification**

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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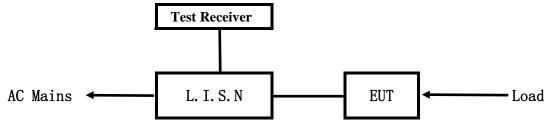
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

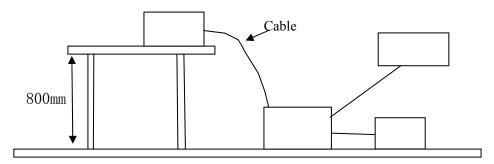


EUT: Equipment Under Test

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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A. EUT

Device	Manufacturer	Model	FCC ID
Wireless Bluetooth	Shenzhen Jingwah Information	BKS800	RBD-BKS800
Speaker	Technology Co., Ltd.	DK3000	KDD-DK2000

B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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	Class A Lim	its (dB µ V)	Class B Limits (dB µ V)				
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level			
$0.15~\sim~0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*			
$0.50~\sim~5.00$	73.0	60.0	56.0	46.0			
$5.00 \sim 30.00$	73.0	60.0	60.0	50.0			

5.5 Power line conducted Emission Limit according to Paragraph 15.107,15.207

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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30.000

A: Conducted Emission on Live Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa **EUT set Condition: Keep Bluetooth Transmitting Equipment Level: Class B Results: PASS** Please refer to following diagram for individual dBu¥ 100.0 90 80 70 FCC Part15 CE-Class C_QP 60 FCC Part15 CE-Class C_AVe 50 40 peak 30 AVG 20 10 0

-20

-10

(MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	38.31	9.78	48.09	65.38	-17.29	QP	Ρ
2	0.1617	22.74	9.78	32.52	55.38	-22.86	AVG	Ρ
3	0.4191	28.07	9.76	37.83	57.47	-19.64	QP	Ρ
4	0.4191	20.02	9.76	29.78	47.47	-17.69	AVG	Ρ
5	0.8793	27.01	9.79	36.80	56.00	-19.20	QP	Ρ
6	0.8793	24.25	9.79	34.04	46.00	-11.96	AVG	Ρ
7	3.2184	14.93	9.85	24.78	56.00	-31.22	QP	Ρ
8	3.2184	15.49	9.85	25.34	46.00	-20.66	AVG	Ρ

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Humidity: 65%RH Atmospheric Pressure: 101 KPa Temperature: 26°C **EUT set Condition: Keep Bluetooth Transmitting Equipment Level: Class B Results: Pass** Please refer to following diagram for individual dBu¥ 100.0 90 80 70 FCC Part15 CE-Class C_QP 60 FCC Part15 CE-Class C_AVe 50 40 peak 30 AVG 20 10 0 -10 -20 30.000 0.150 (MHz)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	39.70	9.78	49.48	65.38	-15.90	QP	Р
2	0.1617	23.39	9.78	33.17	55.38	-22.21	AVG	Ρ
3	0.2904	30.04	9.76	39.80	60.51	-20.71	QP	Ρ
4	0.2904	25.32	9.76	35.08	50.51	-15.43	AVG	Р
5	16.6149	9.77	10.48	20.25	60.00	-39.75	QP	Р
6	16.6149	1.76	10.48	12.24	50.00	-37.76	AVG	Ρ

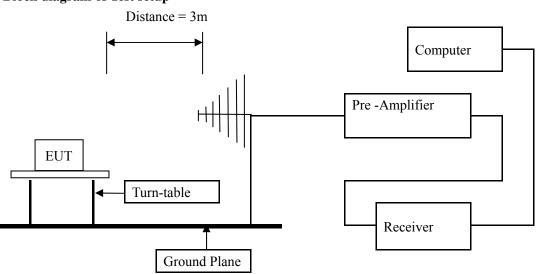
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6 Radiated Emission Test

- 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

- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109 and RSS-210

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = 20 log RF 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 worse 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

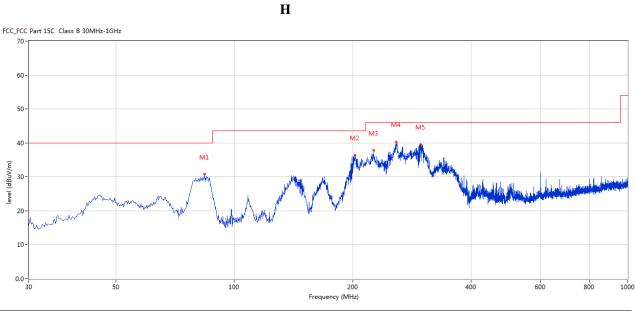
Results:

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Test Figure:



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	84.064	30.72	-16.72	40.0	-9.28	Peak	215.00	200	Н	Pass
2	202.374	36.39	-13.39	43.5	-7.11	Peak	149.00	100	Н	Pass
3	226.133	37.82	-12.83	46.0	-8.18	Peak	142.00	100	Н	Pass
4	257.893	40.32	-11.84	46.0	-5.68	Peak	116.00	100	Н	Pass
5	297.411	39.57	-11.11	46.0	-6.43	Peak	103.00	100	Н	Pass

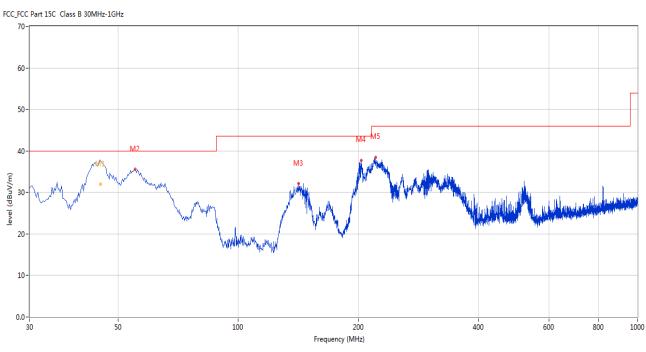
The report refers only to the sample tested and does not apply to the bulk.

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v

Test Figure:



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	45.135	36.80	-11.41	40.0	-3.20	Peak	0.00	116	V	Pass
1*	45.135	31.93	-11.41	40.0	-8.07	QP	0.00	116	V	Pass
2	55.214	35.55	-11.83	40.0	-4.45	Peak	360.00	200	V	Pass
3	141.765	32.14	-17.29	43.5	-11.36	Peak	360.00	200	V	Pass
4	203.102	37.76	-13.44	43.5	-5.74	Peak	147.00	100	V	Pass
5	221.042	38.52	-13.27	46.0	-7.48	Peak	57.00	100	V	Pass

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

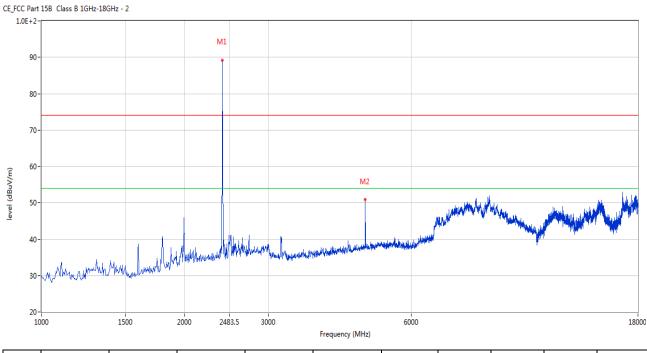
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Vertical



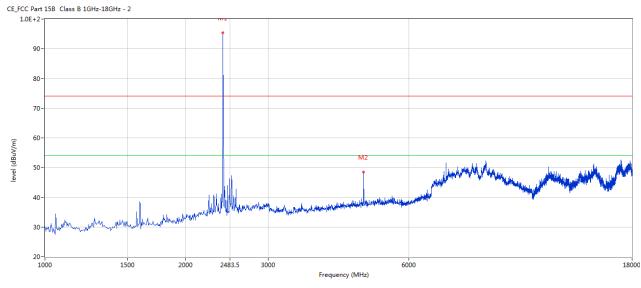
No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
2	4802.799	50.88	3.12	54.0	-3.12	Peak	44.00	100	V	Pass

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Low Channel : Horizontal



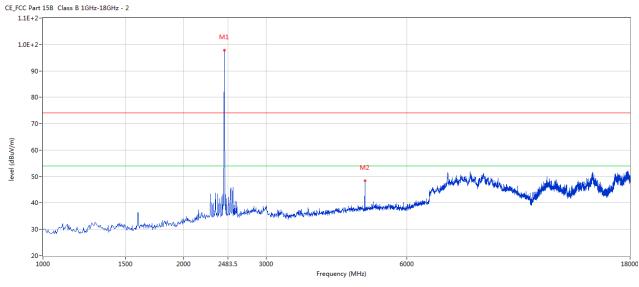
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4802.799	48.49	3.12	54.0	-5.51	Peak	325.00	100	Н	Pass

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Middle Channel : Horizontal



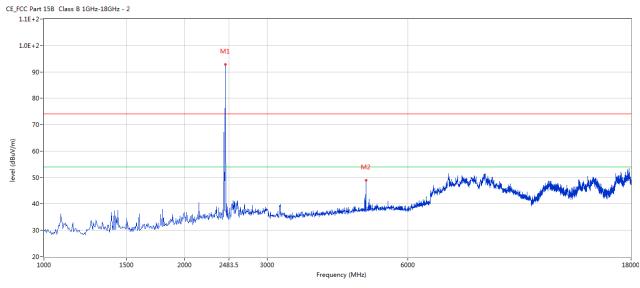
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4879.280	48.35	3.20	54.0	-5.65	Peak	194.00	100	Н	Pass

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Middle Channel : Vertical



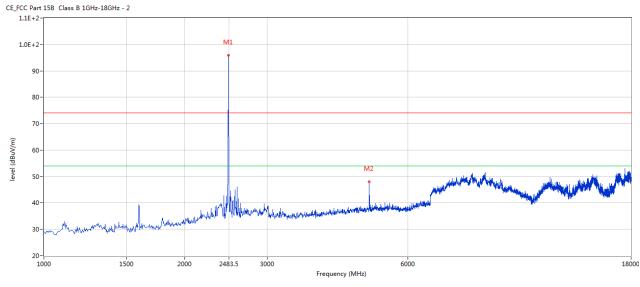
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4879.280	48.89	3.20	54.0	-5.11	Peak	38.00	100	V	Pass

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High Channel : Horizontal

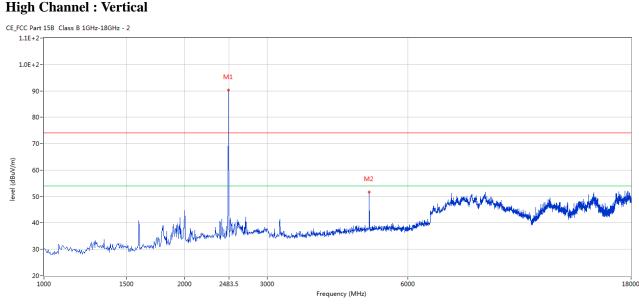


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4960.010	47.95	3.36	54.0	-6.05	Peak	186.00	100	Н	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4960.010	51.61	3.36	54.0	-2.39	Peak	69.00	100	V	Pass

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

2. For the radiated emissions above 18G, 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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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

EUT	Wireles	s Bluetooth Speaker	Model	BKS800					
Mode	Ke	ep Transmitting	Input Voltage	120V~					
Temperat	ure	24 deg. C,	Humidity	56% RH					
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail					
Low	2402	944		Pass					
Middle	2441	2441 938		Pass					
High	2480	2480 938		Pass					

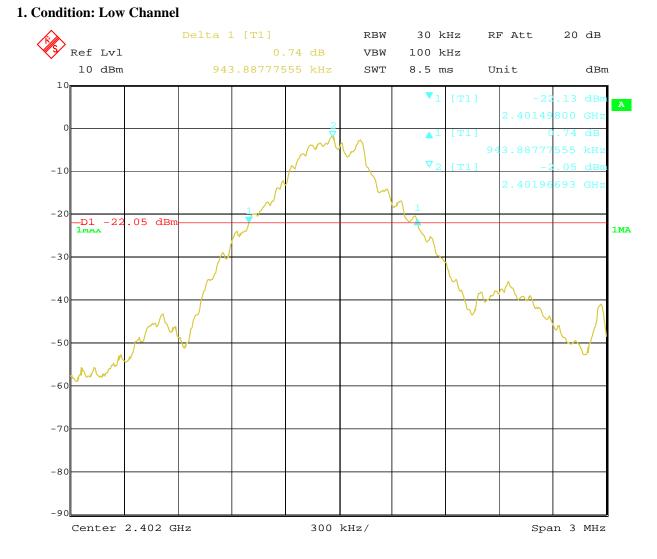
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Test Figure:



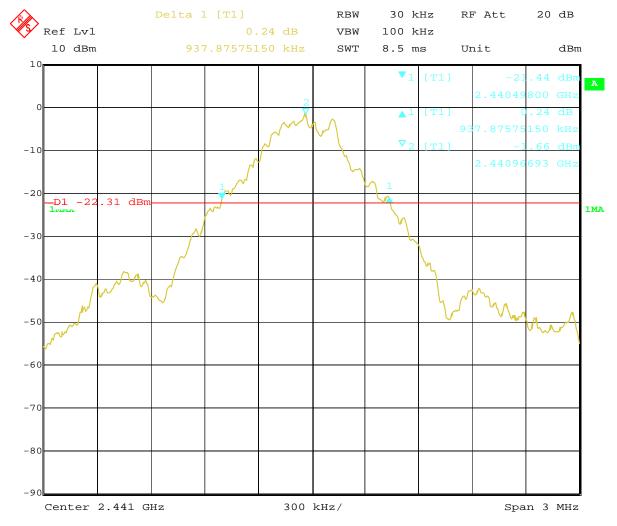
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2. Condition: Middle Channel

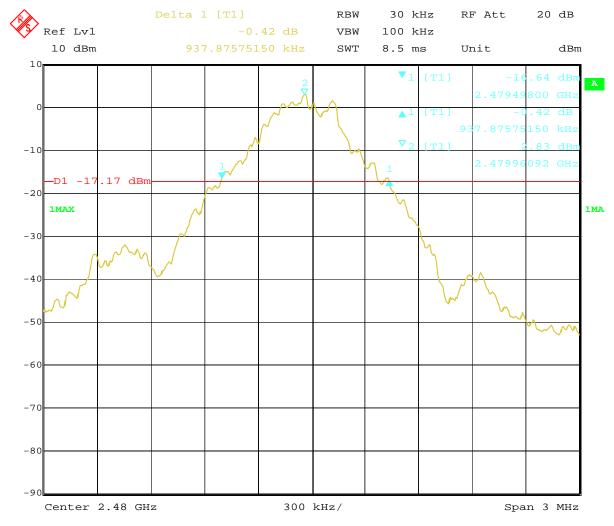


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3. High Channel



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Test Result Type of Modulation: Л/4DQPSK

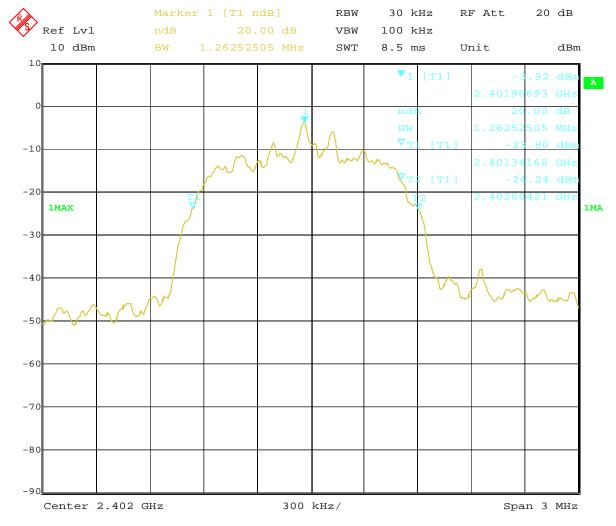
EUT	Wirele	ss Bluetooth Speaker	Model	BKS800
Mode	K	eep Transmitting	Input Voltage	120V~
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1263		Pass
Middle	2441	1238		Pass
High	2480	1244		Pass

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Test Figure:

1. Condition: Low Channel



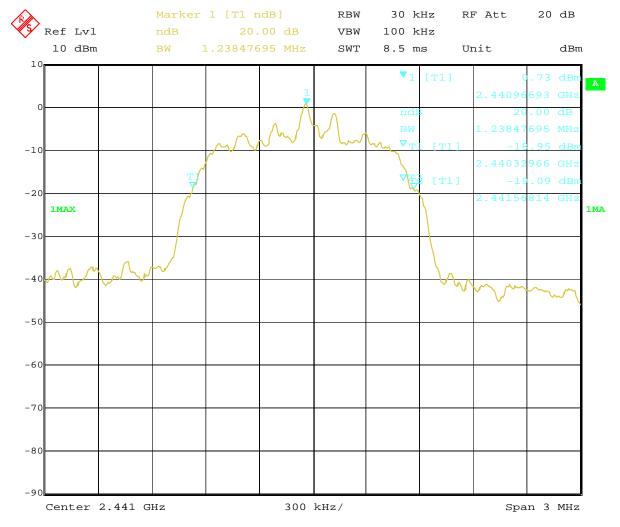
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2. Condition: Middle Channel

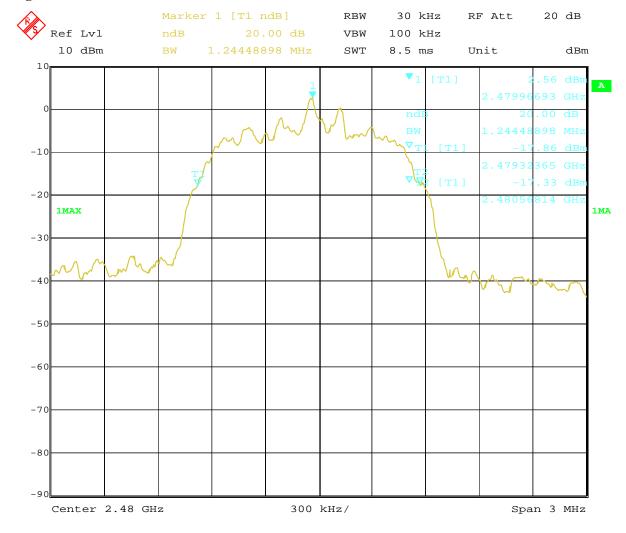


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Test Result Type of Modulation: 8DPSK

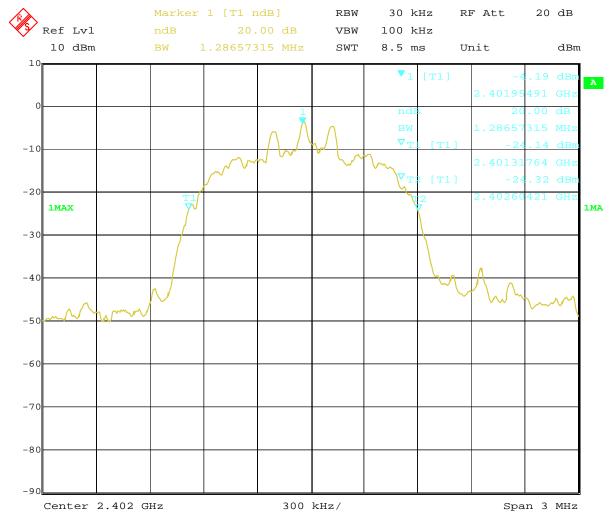
EUT	Wirele	ss Bluetooth Speaker	Model	BKS800
Mode	Ko	eep Transmitting	Input Voltage	120V~
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1287		Pass
Middle	2441	1269		Pass
High	2480	1275		Pass

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Test Figure:

1. Condition: Low Channel



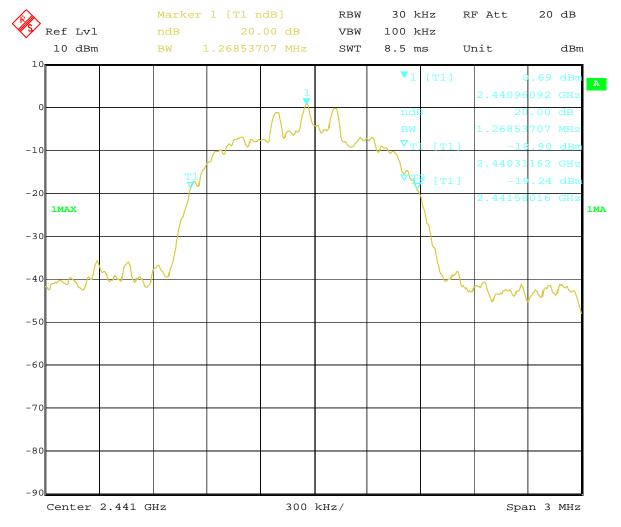
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2. Condition: Middle Channel

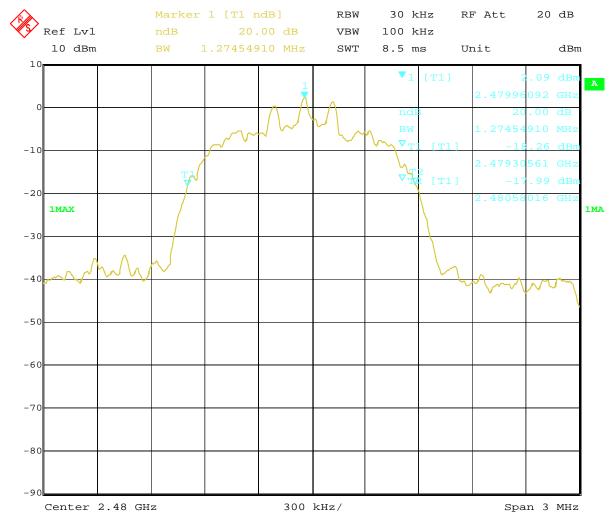


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8. Maximum Output Power 8.1 Regulation

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 = RBW=3MHz;

Sweep = 60s; Detector function = RMS; 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	Wirele	Wireless Bluetooth Speaker		odel	BKS800
Mode	K	Keep Transmitting		Voltage	120V~
Temperature	e	24 deg. C,		lity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit	Pass/ Fail
Low	2402	1.70		(dBm) 30	Pass
Middle	2441	4.98		30	Pass
High	2480	6.08		30	Pass

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

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

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

Type of Modulation: Л/4DOPSK

EUT	Wireles	Wireless Bluetooth Speaker		Model	BKS800				
Mode	Ke	Keep Transmitting		Voltage	120V~				
Temperature	e	24 deg. C,		idity	56% RH				
Channel	Channel Frequency (MHz)	Max. Power Output (dBm Peak)	Peak Power Limit (dBm)	Pass/ Fail				
Low	2402	0.10		30	Pass				
Middle	2441	4.05		30	Pass				
High	2480	5.09		30	Pass				

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

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

- 2. The worse 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	Wirele	ss Bluetooth Speaker	Ν	Model	BKS800
Mode	K	Keep Transmitting		it Voltage	120V~
Temperature	e	24 deg. C,		umidity	56% RH
Channel	Channel Frequency	Max. Power Output (dBm)	Peak Power	Pass/ Fail
Chumier	(MHz)	Peak		Limit (dBm)	
Low	2402	0.38		30	Pass
Middle	2441	4.52		30	Pass
High	2480	5.31		30	Pass

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

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

2. The worse 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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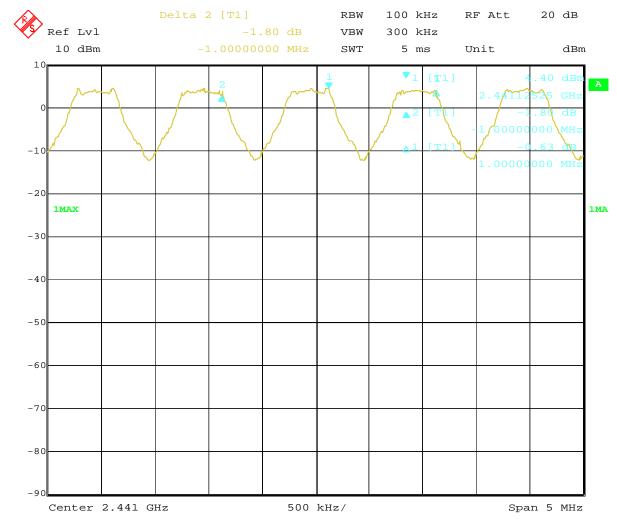


9.4Test Result

Type of Modulation: GFSK

EUT	Wireless Bluetooth	Model		BKS800	
Mode	Hopping O	Input Voltage	120V~		
Temperature	24 deg. C,		Humidity	56% RH	
Carrier I	Carrier Frequency Separation				Pass/ Fail
	1MHz	\geq 25 kHz or 2/3	3 of the 20 dB ban	dwidth	Pass

Test Plots



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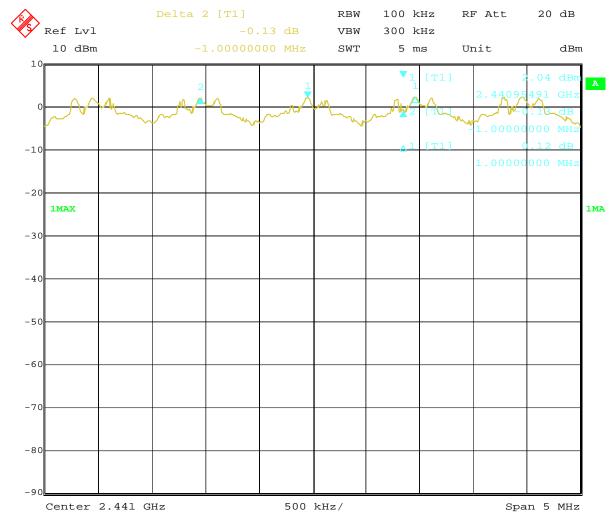
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Type of Modulation: Л/4DQPSK

EUT	Wireless Bluetooth	Model	BKS800		
Mode	Hopping O	Input Voltage	120V~		
Temperature	24 deg. C,	Humidity	56% RH		
Carrier I	Frequency Separation	Limit			Pass/ Fail
	1MHz	≥ 25 kHz or 2	2/3 of 20 dB bandy	width	Pass

Test Plots



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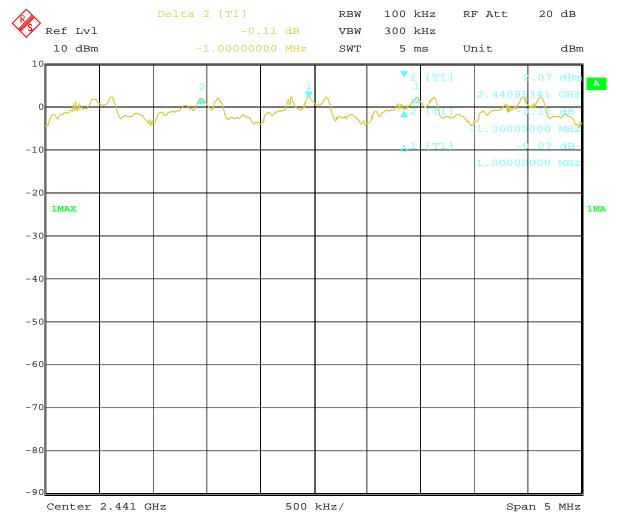
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Type of Modulation: 8DPSK

EUT	Wireless Bluetooth	Model	BKS800		
Mode	Hopping O	Input Voltage	120V~		
Temperature	24 deg. C,	Humidity	56% RH		
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1MHz	≥ 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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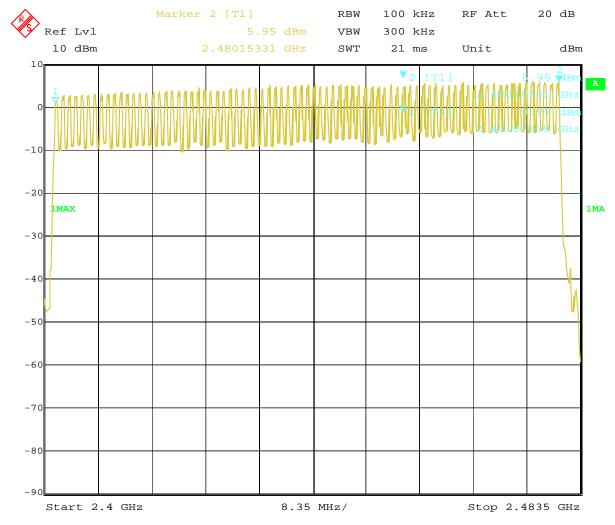


10.4Test Result

Type of Modulation: GFSK

EUT	Wireless Bluetooth Speaker		Model		BKS800	
Mode	Hopping On		Input Voltage	120V~		
Temperature		24 deg. C,	Humidity	56% RH		
Operating Free	perating Frequency Number of hopp		ping channels	Limit	Pass/ Fail	
2402-2480MH	Iz	79	1	≥15	Pass	

Test Plot



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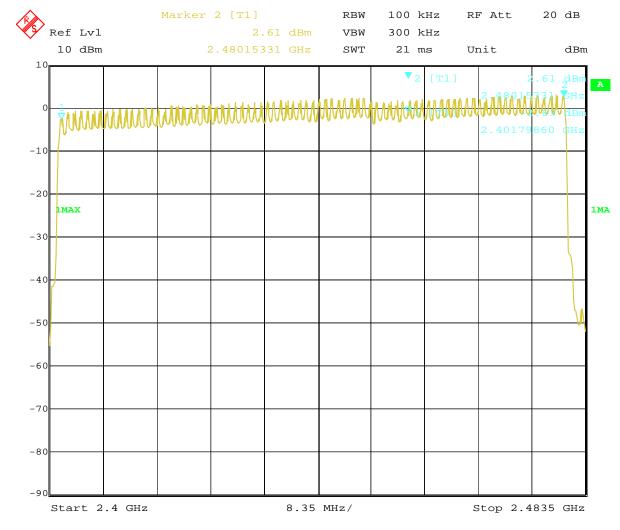
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Type of Modulation: Л/4DQPSK

EUT	Wir	eless Bluetooth Speaker	Model		BKS800
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



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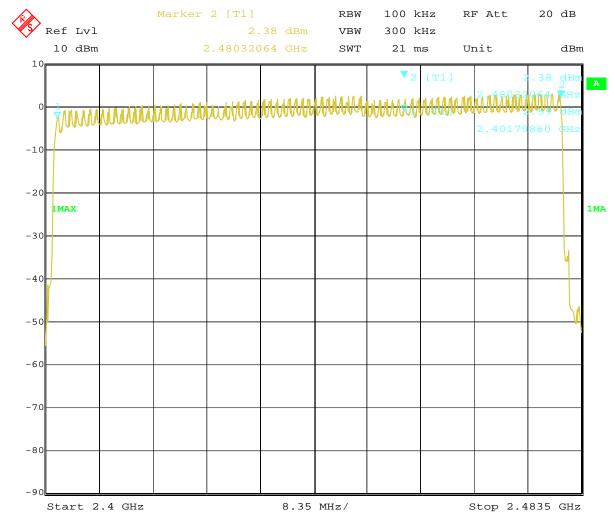
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Type of Modulation: 8DPSK

EUT	Wireless Bluetooth Speaker		Model			BKS800	
Mode	Hopping On		Input Voltage			120V~	
Temperature	24 deg. C,		Humi	Humidity		56% RH	
Operating Fre	Frequency Channels		ng	Liı	nit	Pass/ Fail	
2402-2480MI	Ηz	79		>	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	etooth Speaker	Model	I	3KS800
Mode	Keep Tra	ansmitting	Input Voltage		120V~
Temperature	e 24 d	eg. C,	Humidity	5	56% RH
Channel	Reading	Hoping	g Rate	Actual	Limit
			DH5		
Middle	2.986ms	266.667	7 hop/s	0.319s	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.

Note: DH5 was the worst case.

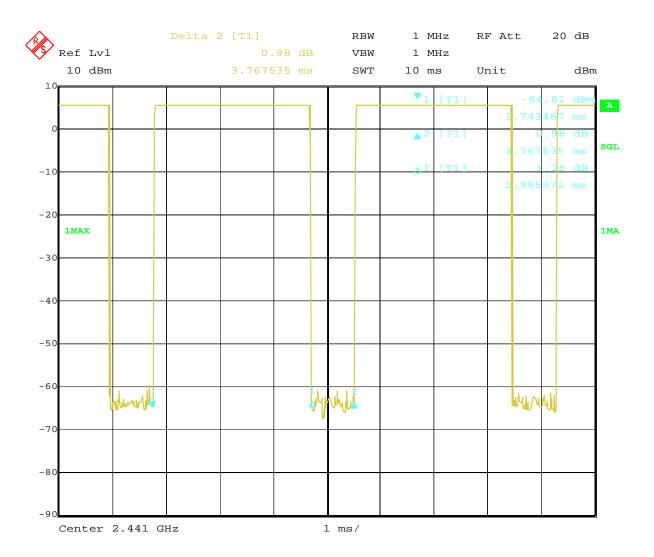
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Test Plots: DH5



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Test Result

Type of Modulation: Л/**4DQPSK**

EUT	Wireless Blu	etooth Speaker	Model	I	3KS800
Mode	Keep Tra	ansmitting	Input Voltage		120V~
Temperatur	e 24 d	eg. C,	Humidity	5	56% RH
Channel	Reading	Hoping	g Rate	Actual	Limit
	I				
Middle	3.006ms	266.667	7 hop/s	0.321s	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.

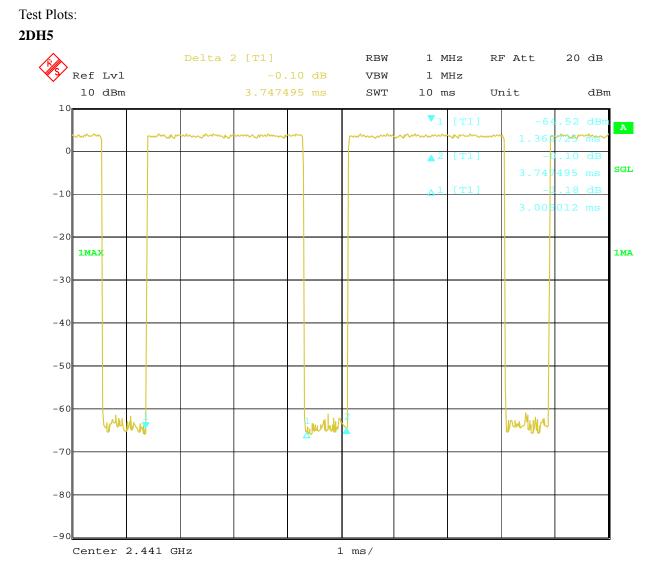
Note: 2DH5 was the worst case.

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Type of Modulation: 8DPSK

EUT	Wireless Blu	etooth Speaker	Model	I	3KS800
Mode	Keep Tra	ansmitting	Input Voltage		120V~
Temperature	e 24 d	eg. C,	Humidity	5	56% RH
Channel	Reading	Hoping	g Rate Actual		Limit
			DH5		
Middle	3.006ms	266.667	7 hop/s	0.321s	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.

Note: 3DH5 was the worst case.

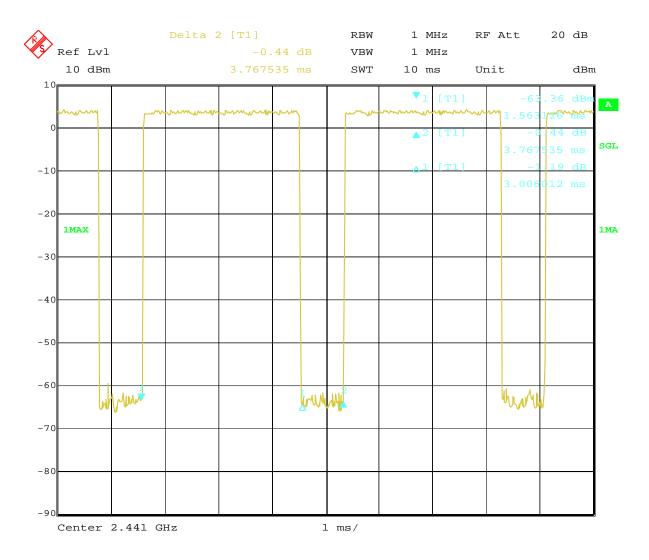
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Test Plots: 3DH5



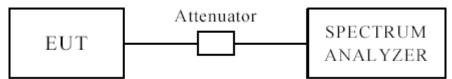
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12 Out of Band Measurement

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 B	luetooth Spea	aker		Test Mode:	Low Channel
Mode	Keeping	; Transmitting	g		Input Voltage	120V~
Temperature	24 deg. C				Humidity	56% RH
Test Result:		Pass Detector			PK	
Test Figure:						
K	Marker 1 [T1]	RBW	100 k	Hz RF Att	20 dB
Ref Lvl	-	3.00 dBm	VBW	300 k	Hz	
10 dBm	2.4021	8437 GHz	SWT	15 m	s Unit	dBm
10				v 1	[T1]	-3.00 dBm
					2.402	18437 GHz
0				₹2	[T1]	54.75 dBm
				_	2.4000	
-10				∇3	[T1] -	<u>65.94 dBm</u>
					2.390	00000 GHz
-20						
1MAX						1MA
-30						
-40						
						V
-50					2	
					M	
-60						
Le man a Maria	unannenshamman		menhal	LALMAN A	menun	Yanke
-70			Werr Wer U	- And and A		
-80						
- 8 0						
-90 Start 2.35 (6 МН				2.41 GHz

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Type of Modulation: GFSK

12.4 Band Edge Test Result

Product:	Wireles	s Bluetoot	h Speake	r	Те	st Mode:	High Channel	
Mode	Keep	oing Trans	mitting		Inp	ut Voltage	120\	/~
Temperature		24 deg. (2,		Н	lumidity	56% RH	
Test Result:		Pass			Γ	Detector	РК	
Test Figure:								
R	Marker	1 [T1]		RBW	100 kH	Iz RF Att	20 dB	
Ref Lvl			72 dBm	VBW	300 kH			
10 dBm	2	2.479799	60 GHz	SWT	7.5 ms	s Unit	dBn	1
10		1			▼1	[T1]	2.72 dBm	A
0		74				2.47		
0		$\left(\right)$			v 2	[T1] 2.48	-59.76 dBm	
1.0						2.48	350000 GHz	
-10								
-20								1MA
-30	M							
		М						
-40								
	<i>x</i>	١.						
-50		V	4					
	N		M ₂					
-60	/*		- tul					
	y www.w		U.	how	Human	unnun	Mulliman	
-70								
-80								
-90								
Start 2.	47 GHz		3 M	IHz/		St	op 2.5 GHz	

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:	Wireless	Bluetooth Speak	ter		Test Mode:		Hopping mode	
Mode	Н	lopping On			Input V	oltage	120	/~
Temperature		24 deg. C,			Humi	dity	56%	RH
Test Result:		Pass			Dete	ctor	РК	- -
Test Figure:								
K	Marker 1	[T1]	RBW	10	0 kHz	RF At	t 20 dB	
Ref Lvl		-0.49 dBm	VBW		0 kHz	• •	1-	
10 dBm 10	2.4	0915832 GHz	SWT	1	5 ms	Unit	dB	m
					▼1 [Т1]		-0.49 dB	A
0					▼2 [T1]	2.40)915832 GH	
					2 [11]	2.40	ANNA	<u> J</u>
-10					▼ ₃ [T1]		-57.09 dB	m
						2.39	000000 GH	z
-20								_
1MAX								1MA
-30								_
-40								_
						ľ		
-50								_
					<u>З</u> ка и Л			
-60	λ		MAN	<u> WW</u>	<u> MUM</u>	<u>N/N^_</u>		_
	· · · · · · · · · · · · · · · · · · ·		Ť					
-70								4
-80								4
-90								
Start 2.	35 GHz	6 М	Hz/			Sto	op 2.41 GH	Z

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Stop 2.5 GHz

Type of Modulation: GFSK

р Test D ...14

-60

-70

-80

-90

Start 2.47 GHz

Product:	Wirele	ss Bluetc	oth Speak	ker		Test Mo	ode:	Нор	ping mod
Mode		Hopping	g On			Input Vo	ltage		120V~
Temperature		24 deg	. C,			Humid	lity	56% RH	
Test Result:		Pass	5			Detect	tor		РК
Test Figure:									
Ref Lvl	Marker		89 dBm	RBW VBW		kHz kHz	RF Att	20	0 dB
10 dBm	2	.476973		SWT		ms	Unit		dBm
						1 [T1]	2.47	2.89 697395	5 GHz
1 V V V	₩ ₩ ₩ ₩ ₩	~ ~				2 [T1]	2.48	350000	5 dBm) GHz
-10									
-20									
1MAX									1M
-30		4							
-40									
-50			M2M	MM		LA.A.	MA.	m	ЛИ
			V V V	VVV	VV	VVV	VVV	VV	V Ť

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3 MHz/



Type of Modulation: Л/4DQPSK

12.4 Out of Band Test Result

Product:		Wireless	Bluetoot	h Speaker		Test	Mode:		Low Cl	nannel
Mode		Keepi	ng Transı	nitting		Inpu	ut Voltage		120	V~
Temperature			24 deg. (2		Hur	nidity		56%	RH
Test Result:			Pass			Dete	ector		РК	
Test Figure:										
Ŕ		Marker	1 [T1]		RBW	100 k		Att	20 dB	
Ref				.25 dBm	VBW	300 k			_	
10	dBm	2	2.402184	137 GHz	SWT	15 m	s Uni	t	dBm	L
						V 1	[T1]		3.25 dBm	A
0								.40218		_
						v ₂	[T1] 2	. 40000	.24 dBm 0000 GHz	
-10						⊽ 3	[T1]	-60	1.19 dBm	
							2	. 39000	000 GHz	
-20										
1MAX	:									1MA
-30										
50										
-40								4		
10								$\left \right $		
-50									4	
50										
-60										
When	Manum	mark	minte	when	multimeter	mn nt	munu		Menhand	
-70										
-80										
-90	t 2.35 GHz			6 М					2.41 GHz	

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Type of Modulation: Л/4DQPSK

12.4 Band Edge Test Result

Product:	Wireles	s Bluetoo	th Speake	r	Tes	st Mode:	High Channel	
Mode	Keep	oing Trans	mitting		Inpu	ut Voltage	120	V~
Temperature		24 deg. (Ξ,		H	umidity	56% RH	
Test Result:		Pass			D	etector	PK	
Test Figure:								
<u>k</u>	Marker	1 [T1]		RBW	100 kH	iz RFAtt	20 dB	
Ref Lvl			65 dBm	VBW	300 kH			
10 dBm 10	2	2.479979	96 GHz	SWT	7.5 ms	Unit	dBn	n =
		1			▼1	[T1]	2.65 dBm	A
0		Ā			_		'997996 GHz	_
0		$\langle \rangle$			v 2	[T1]	-60.77 dBm 350000 GHz	1
-10						2.48	350000 GHZ	
-10								
-20								1MA
-30	l w							
		M						
-40								
	<i>ل</i> م ا							
-50			1					
	and a second		4					
-60			Wy					
Madeur	Month		V.	hinteres	maker	mounder	manula	
-70								
-80								
-90								
Start 2	.47 GHz		3 M	IHz/		St	op 2.5 GHz	

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Type of Modulation: Л/4DQPSK

12.4 Out of Band Test Result

Product:	Wirele	ss Bluetooth Spea	ker		Test		Test Mode:		Hopping mode	
Mode		Hopping On			Ir	nput Vo	ltage		120	V~
Temperature		24 deg. C,				Humic	lity		56%	RH
Test Result:		Pass			Detector		РК		K	
Fest Figure:										
<u>k</u>	Marker	1 [T1]	RBW	10	0 k	Hz	RF At	t	20 di	3
Ref Lvl		-0.32 dBm			0 k					
10 dBm 10	2	.41000000 GHz	SWT	1	5 m	S	Unit		dl	Зm
10					▼1	[T1]		- 0	.32 dI	Bm
0							2.41	1000		Iz
0					2	[T1]	2.40	1	KAN	V
					∇ 3	[11]	2.40	-59	90 000 15 00	iz Sm
-10							2.39	000	000 GH	Iz
-20										
THAN										100
-30										_
-40										_
-50							2			_
			INMAL		Ž.	1.1.11				
-60 AAUA	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	᠕᠕᠕᠕᠕᠕᠕᠕		V//~	WV	vvv	<u>~vuu</u>			_
× v ×										1
-70										_
- 80										_
-90										
Start 2.	35 GHz	6 1	MHz/				Sto	op 2	.41 GH	Iz

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

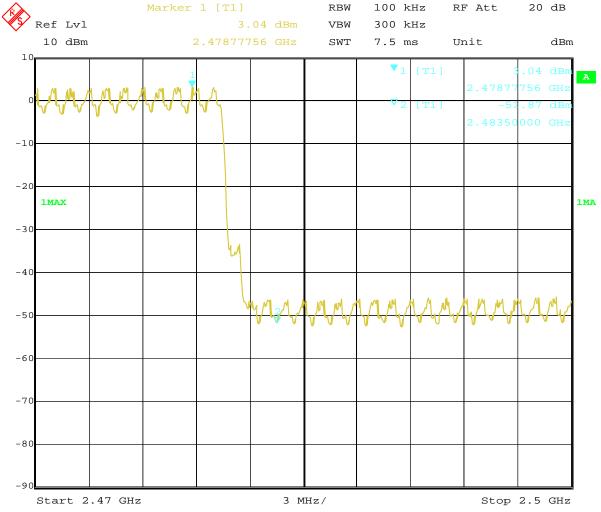
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Type of Modulation: Л/4DQPSK

Out of Band Test Result 12.4

Product:	Wireless Bluetooth Speaker	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	120V~
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК
Test Figure:			
^		100 100 000 000	



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Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	Wireless Blueto	ooth Speak	er		Test Mode	:	Low Cl	nannel
Mode	Keeping Tra	nsmitting			Input Volta	ige	120	V~
Temperature	24 deg	g. C			Humidity		56%	RH
Test Result:	Pas	S			Detector		Pŀ	ζ
Test Figure:								
<u>k</u>	Marker 1 [T1]		RBW	100	kHz RI	F Att	20 dB	
Ref Lvl		.15 dBm	VBW		kHz			
10 dBm	2.40206	413 GHz	SWT	15	ms Ui	nit	dBn	ı
				•	1 [T1]	-	-3.15 dBm	A
						2.4020	6413 GHz	
0				V	2 [T1]		54.88 dBm	
					3 [17]]	2.4000	0000 GHz	
-10					5 [1 1]	2.3900	. US aba	
-20								
1MAX								1MA
-30								
-40						<u> </u>	1	
- 5 0							1	
						1		
-60								
- mennen under	man man all more with	L.A.	ruhun	E montal	Mulan	لس ا	hul	
-70				• • · · · ·				
-80								
-00								
-90	GHz	6 М	Hz/			Stop	2.41 GHz	

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Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	Wireless	s Bluetoot	h Speake	r	Т	est Mode	:	High Channel	
Mode	Кеер	ing Trans	mitting		In	put Voltag	ge	1201	/~
Temperature		24 deg. C	·,			Humidity		56%]	RH
Test Result:		Pass				Detector P			_
Test Figure:									
R	Marker	1 [T1]		RBW	100 k	Hz R	F Att	20 dB	
Ref Lvl			67 dBm	VBW	300 k			_	
10 dBm	2	.479979	96 GHz	SWT	7.5 m	ns U	nit	dBm	1
		1			▼1	[T1]		2.67 dBm	A
0		M					2.479		
0		()			v 2	[T1]	- 2.483	-60.35 dBm 350000 GHz	
-10							2.403	50000 GHZ	
-10									
-20									1MA
-30	N								
		V I							
-40	()V								
	مر الم								
-50		ų	4						
			M.						
-60									
monten	burgent		•لر	Munny	nethenplu	mound	mount	munning	
-70						[
-80									
-90									
Start 2.4	7 GHz		3 M	Hz/			Sto	op 2.5 GHz	

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Type of Modulation: 8DPSK

Band Edge Test Result 12.4

Product:	Wireless H	Bluetooth Speak	er		Test M	ode:	Hopping mode	
Mode	Но	opping On			Input Vo	ltage	120	/~
Temperature	2	4 deg. C,			Humic	lity	56%	RH
Test Result:		Pass			Detec	tor	PK	
Test Figure:								
R	Marker 1 [RBW	100	0 kHz	RF At	t 20 dB	
Ref Lvl		-0.29 dBm	VBW		0 kHz			
10 dBm 10	2.40)915832 GHz	SWT	15	5 ms	Unit	dB	m
10					1 [T1]		-0.29 dB	A
0						2.40	0915832 GH	Z
Ĵ					▼2 [T1]	2.40	MMM	V .
-10					▼ ₃ [T1]	2.10	-56.71 dB	2 m
10						2.39	000000 GH	z
-20								
-20 1MAX								1MA
20								
-30								
-40						ľ		
-50					2	2		
	a had a labola da	NUNNIN	MANAA	M	T AMAN	1 AM		
-eo	Aranahananahan	14AAAAAA	A <u>x n x A A</u>	<u>+ 9 V</u>	<u></u>	* 14.		
-70								1
-80								
-90 Start 2.	35 GHz	6 M	Hz/				ор 2.41 GH	 z
50420 2.		0 11	/			200		_

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1MA

Stop 2.5 GHz

Type of Modulation: 8DPSK

12.4 Band Edge Test Result

-20

-30

-40

-50

-60

-70

-80

-90

Start 2.47 GHz

1MAX

Product:	Wireless Bluetooth Speake	er	Test Mode:	Hopping mode
Mode	Hopping On		Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass	Pass		
Test Figure:				
Ref Lvl	Marker 1 [T1] 3.04 dBm		00 kHz RF Att 00 kHz	20 dB
10 dBm	2.47877756 GHz	SWT 7.	5 ms Unit	dBm
			▼2 [T1]	3.04 dBm 877756 GHz -53.47 dBm 350000 GHz

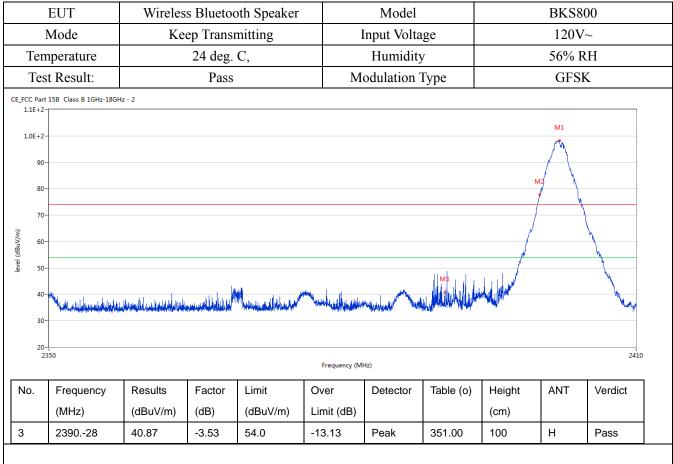
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3 MHz/



12.4	Restrict Band Measurement
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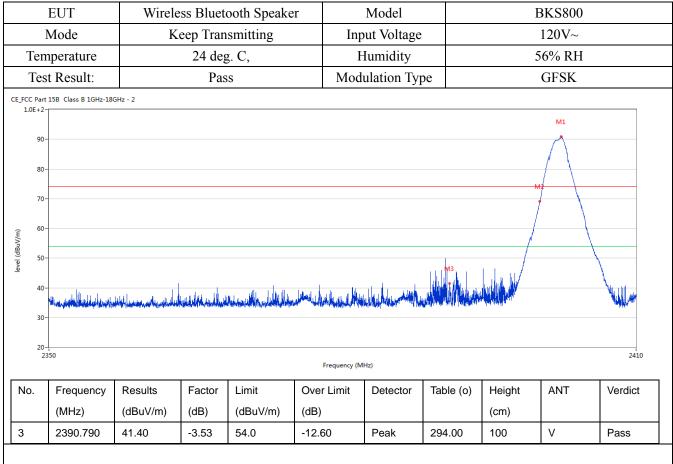


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12.4	Restrict Band Measurement
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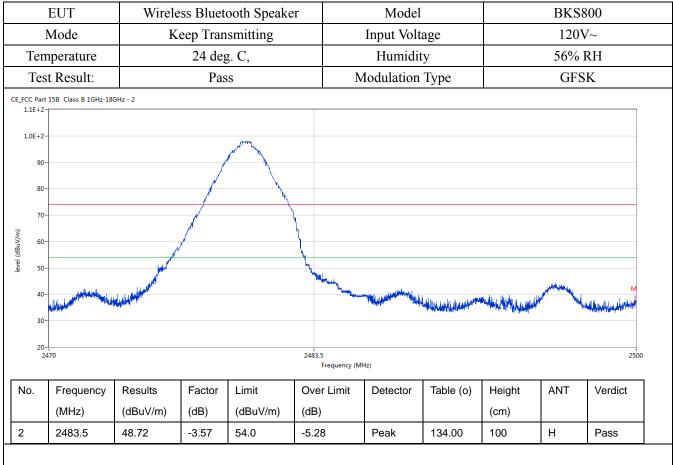


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12.4 Restrict Band Measurement



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EUT Wireless Bluetooth Speaker				er	Model			BKS800			
Mode Keep Transmitting					Input Voltage			120V~			
Ter	mperature	24 deg. C,				Humidity			56% RH		
Test Result: Pass				М	Modulation Type			GFSK			
E_FCC Pa 1.1E+2	rt 15B Class B 1GHz-18	GHz - 2									
1.0E+2	2-										
90)-			(m)							
80											
70	70-										
(m/)60											
el (dBu					<u>\</u>						
<u>š</u> 50	'LI I I I I I				N.	1		hi ana ing sa			
40		White Walks			Manual Annual	MANAGAR AND	WHILE MILLING		All and a start of the		
30)-						a nullin million ann ann an	and the second sec			
20)-				1						
	2470				2483.5 Frequency (M	lHz)				2500	
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict	
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)			
	-	42.37	-3.57	54.0	-11.63	Peak	48.00	100	V	Pass	

12.4 Restrict Band Measurement

Note: 1. For Restricted band test, only the worst case was reported.

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

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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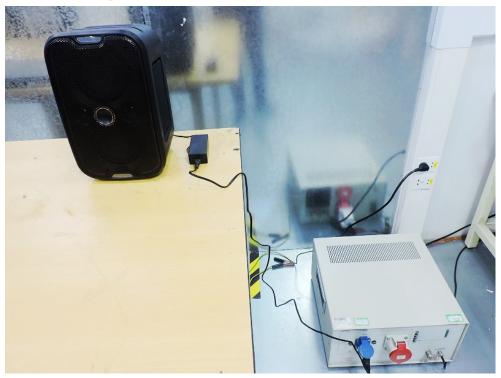
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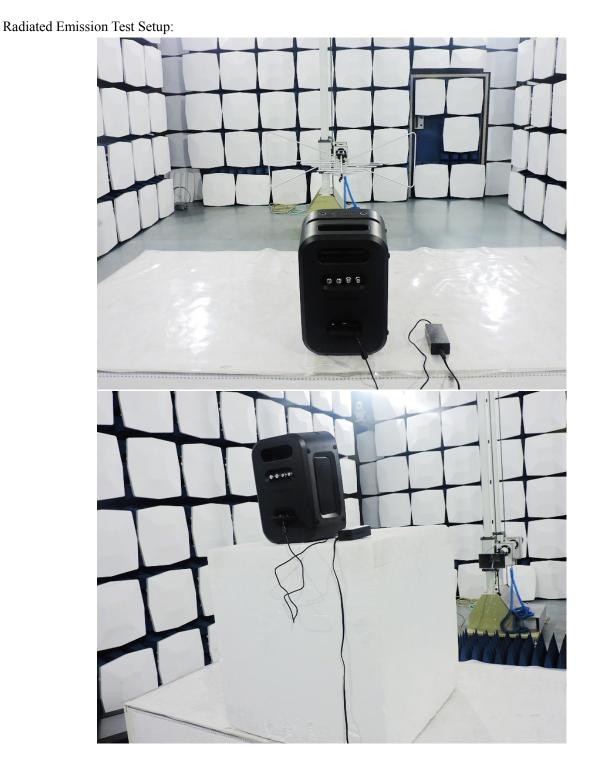
15.0 Photo of testing

Conducted Emission Test Setup:



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Photographs – EUT

Please refer test report EMC1911048-01

--End of Report--

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