



Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial
Zone, Gushu 2nd Road, Bao'an District, Shenzhen
518126, P.R. China

TEST REPORT

FCC ID: 2AA7XKBJ-152N

Applicant : Shenzhen Compoka Electronic Technology Co., Ltd
Address : 4F, Building B, Yishida Industrial Park, Xintang Village, Guanlan
Town, Shenzhen China

Equipment Under Test (EUT):

Name	:	Bluetooth headset
Model	:	KBJ-152N, BHS-530

In Accordance with: FCC PART 15, SUBPART C : 2015 (Section 15.247)

Report No : C1850364 01

Date of Test : September 06-October 20, 2015

Date of Issue : October 20, 2015

Test Result: PASS

In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

A handwritten signature in black ink, appearing to read "Mark Zhu".

(Mark Zhu)

General Manager

The manufacturer should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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1. General Information

1.1. Description of Device (EUT)

EUT : Bluetooth headset
Model No. : KBJ-152N, BHS-530
DIFF. : All model's the function, software and electric circuit are the same,
only different in Model Name.
Trade mark : N/A

Power supply : DC 3.7V from lithium battery or DC 5V from Notebook

Radio Technology : Bluetooth 3.0+EDR
Operation frequency : 2402-2480MHz
Modulation : GFSK, $\pi/4$ QPSK, 8DPSK
Antenna Type : Ceramics Antenna, max gain 0dBi.

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1.2. Accessories of device (EUT)

Accessories 1 : NIL

Type : NIL

1.3. Test Lab information

Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
FCC Registered No.:197647
IC Registered No.: 8528B

2. Summary of test

2.1. Summary of test result

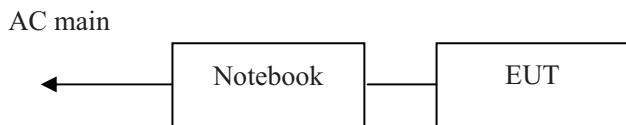
Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) ANSI C63.4 :2014	PASS
Bandwidth	FCC Part 15: 15.215 ANSI C63.4 :2014	PASS
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) ANSI C63.4 :2014	PASS
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2014	PASS
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.4 :2014	PASS
Radiated Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.4 :2014	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) ANSI C63.4 :2014	PASS
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.4 :2014	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: Test with the test procedure Bluetool.		

2.2. Assistant equipment used for test

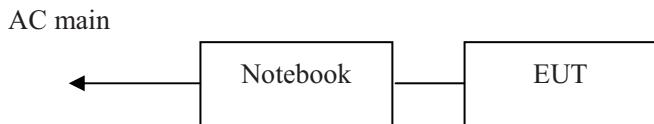
Description	:	NIL
Manufacturer	:	NIL
Model No.	:	NIL
Input	:	NIL
Output	:	NIL

2.3. Block Diagram

1, For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was set into BT test mode by adb.exe software before test.



2, For Power Line Conducted Emissions Test: EUT was connected to power adapter by 1m USB line



2.4. Test mode

The test software “CSR.exe” was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
$\pi/4$ QPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
8DPSK	Low :CH1	2402
	Middle: CH40	2441
	High: CH79	2480

2.5. Test Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

2.7. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Cal. Due day	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2016.01.18	1Year
Spectrum analyzer	Agilent	E4407B	MY49510055	2016.01.18	1Year
Receiver	R&S	ESCI	101165	2016.01.18	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2016.01.21	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2016.01.21	2Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	2016.01.21	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2016.01.18	1Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	2016.01.18	1Year
Cable	Resenberger	SUCOFLEX 104	309972/4	2016.01.18	1Year
Cable	Resenberger	SUCOFLEX 104	329112/4	2016.01.18	1Year
Power Meter	Anritsu	ML2487A	6K00001491	2016.01.18	1Year
Power sensor	Anritsu	ML2491A	32516	2016.01.18	1Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2016.01.18	1Year
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2016.01.18	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2016.01.18	1Year
L.I.S.N.#2	ROHDE&SCHWABE RZ	ENV216	101043	2016.01.18	1 Year

3. Maximum Peak Output power

3.1. Limit

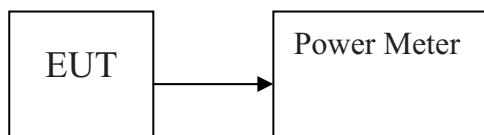
Please refer section 15.247.

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, the e.i.r.p shall not exceed 4W

3.2. Test Procedure

The transmitter output is connected to the RF Power Meter. The RF Power Meter is set to the peak power detection.

3.3. Test Setup



3.4. Test Result

EUT: Bluetooth headset		M/N: KBJ-152N			
Test date: 2015-09-09		Test site: RF site		Tested by: Eric	
Mode	Freq (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)	Margin (dB)
GFSK	2402	2.555	1.801	30	27.445
	2441	3.108	2.046	30	26.892
	2480	2.921	1.959	30	27.079
$\pi/4$ QPSK,	2402	1.825	1.522	21	20.54
	2441	2.504	1.780	21	20.28
	2480	2.351	1.718	21	20.57
8DPSK	2402	2.075	1.613	21	20.31
	2441	2.656	1.843	21	20.55
	2480	2.537	1.793	21	20.32
Conclusion: PASS					

4. Bandwidth

4.1. Limit

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.

4.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 30kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB. peak detector is used.

4.3. Test Result

EUT: Bluetooth headset		M/N: KBJ-152N		
Test date: 2015-09-09		Test site: RF site	Tested by: Eric	
Mode	Freq (MHz)	20dB Bandwidth (MHz)	Limit (kHz)	Conclusion
GFSK	2402	0.829	/	PASS
	2441	0.836	/	PASS
	2480	0.838	/	PASS
$\pi/4$ QPSK	2402	1.115	/	PASS
	2441	1.118	/	PASS
	2480	1.117	/	PASS
8DPSK	2402	1.162	/	PASS
	2441	1.163	/	PASS
	2480	1.164	/	PASS

Orginal Test data For 20dB bandwidth

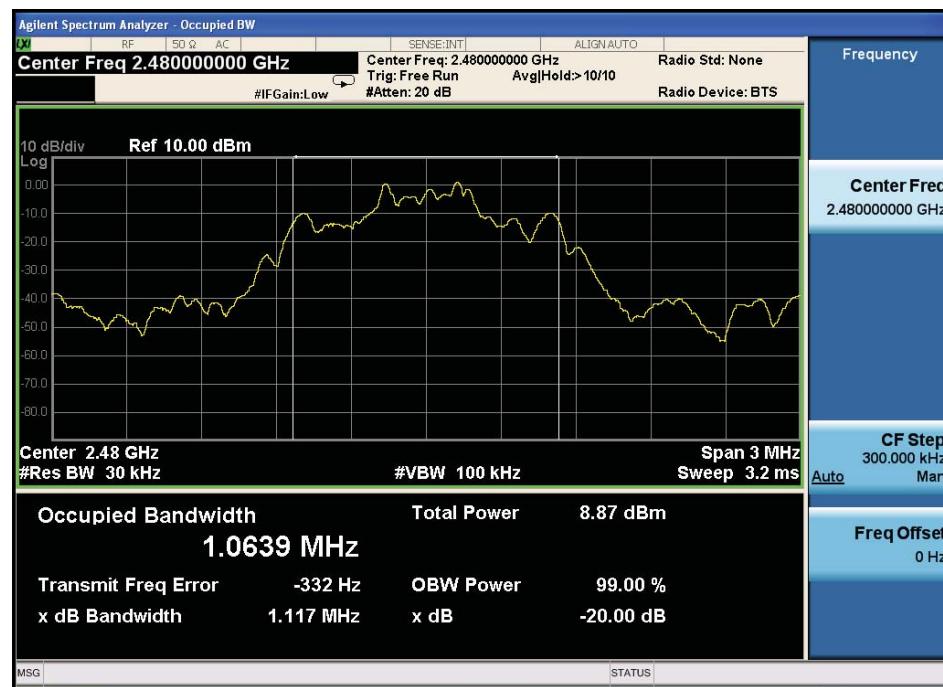
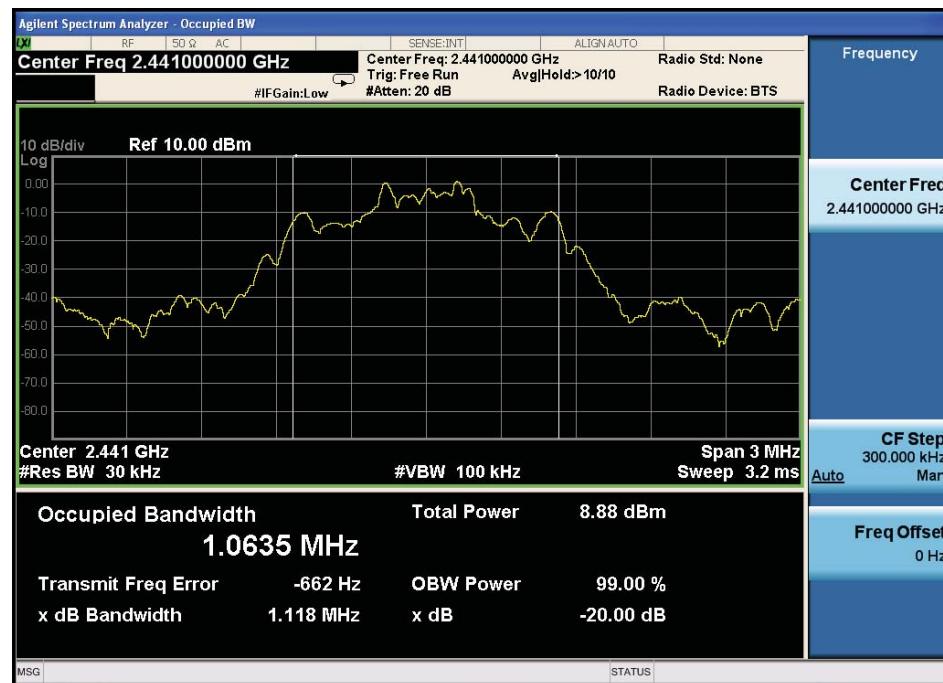
GFSK:



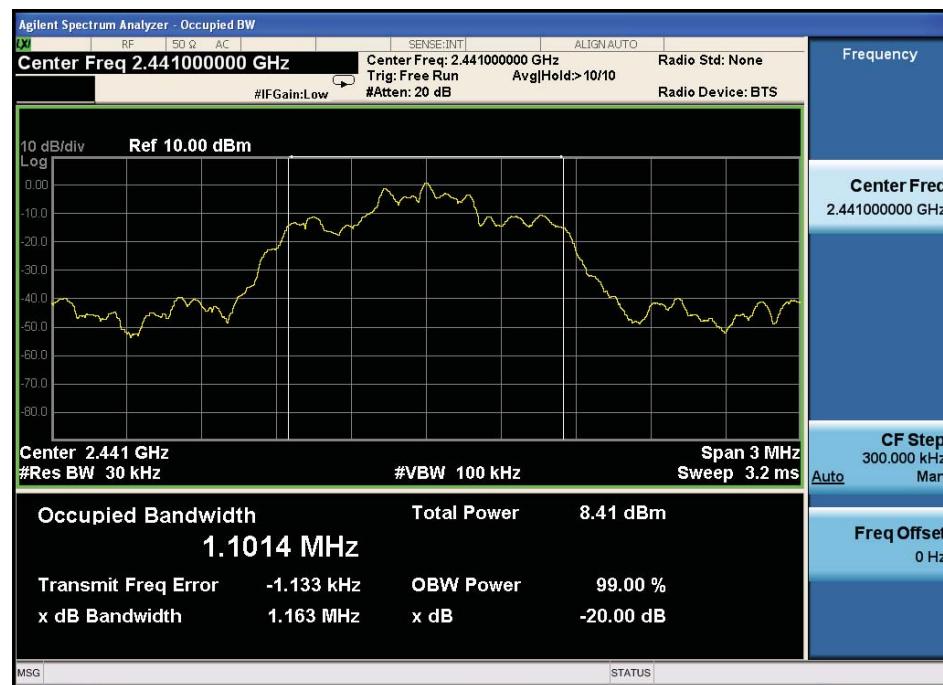
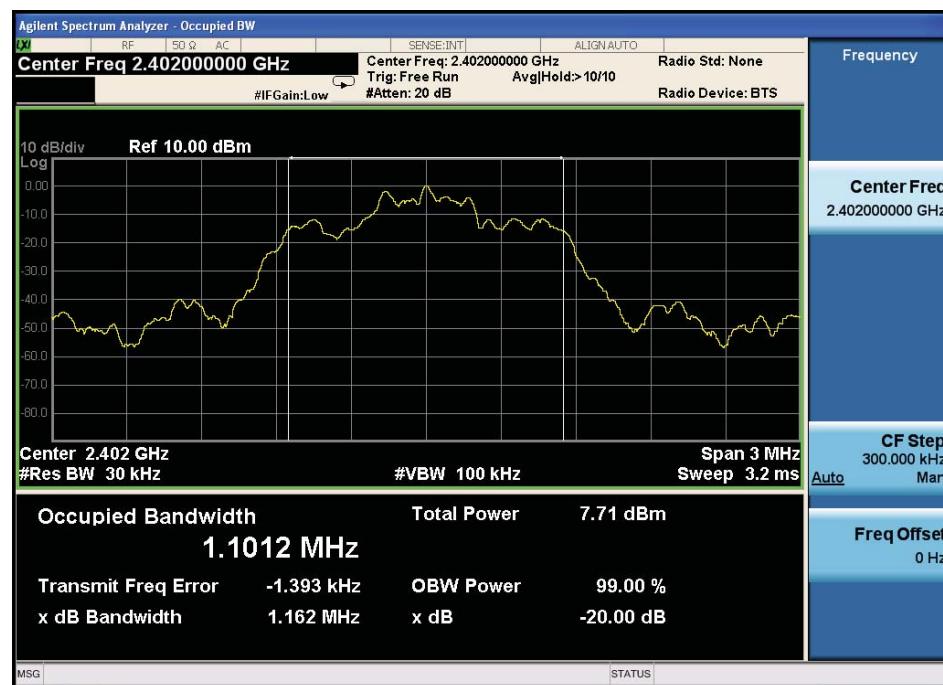


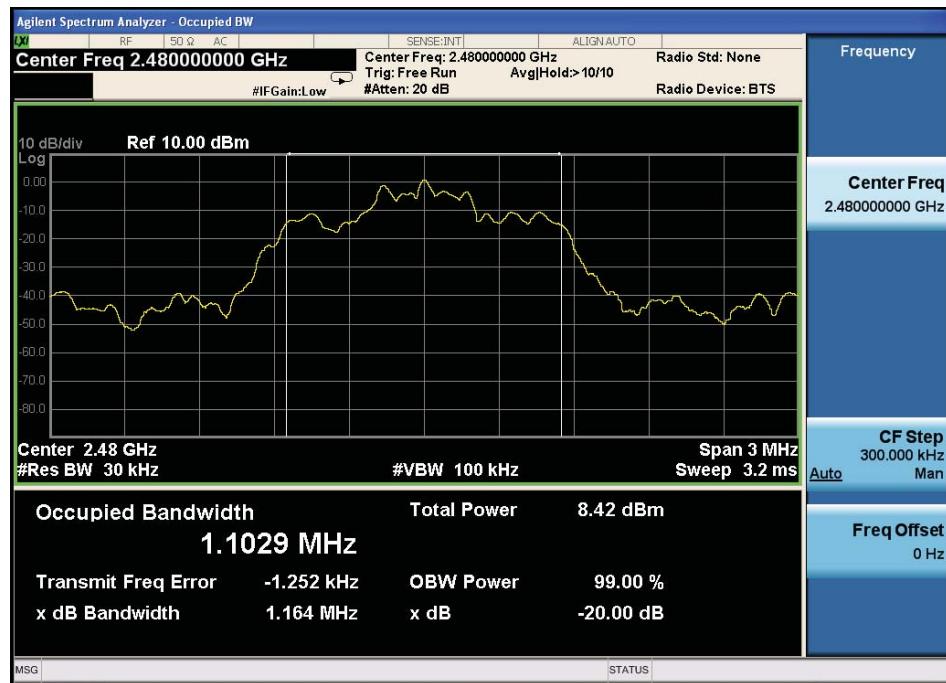
$\pi/4$ QPSK:





8DPSK





5. Carrier Frequency Separation

5.1. Limit

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.

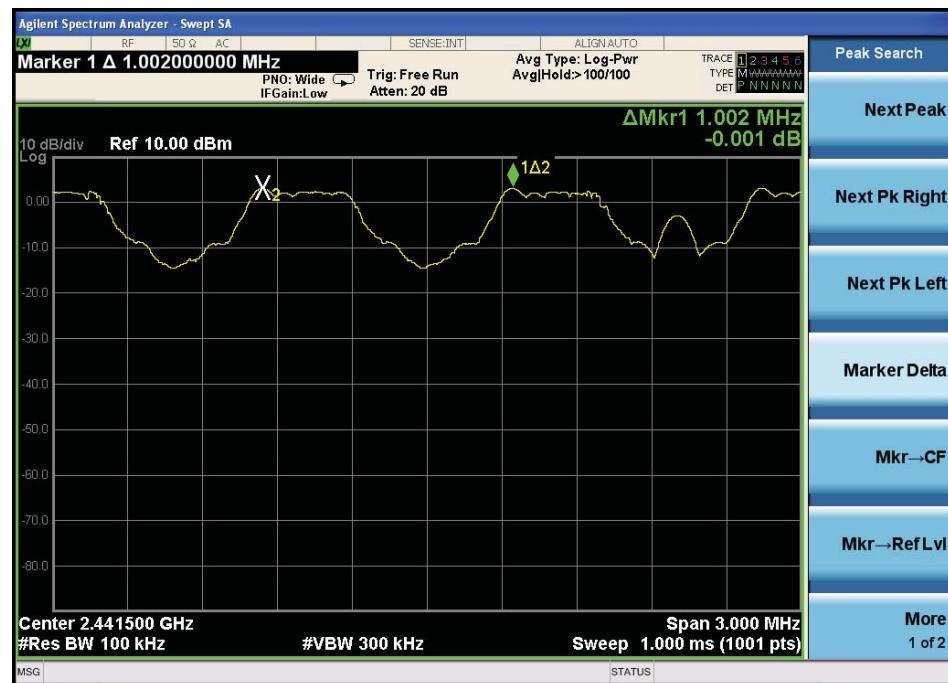
5.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The carrier frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW.

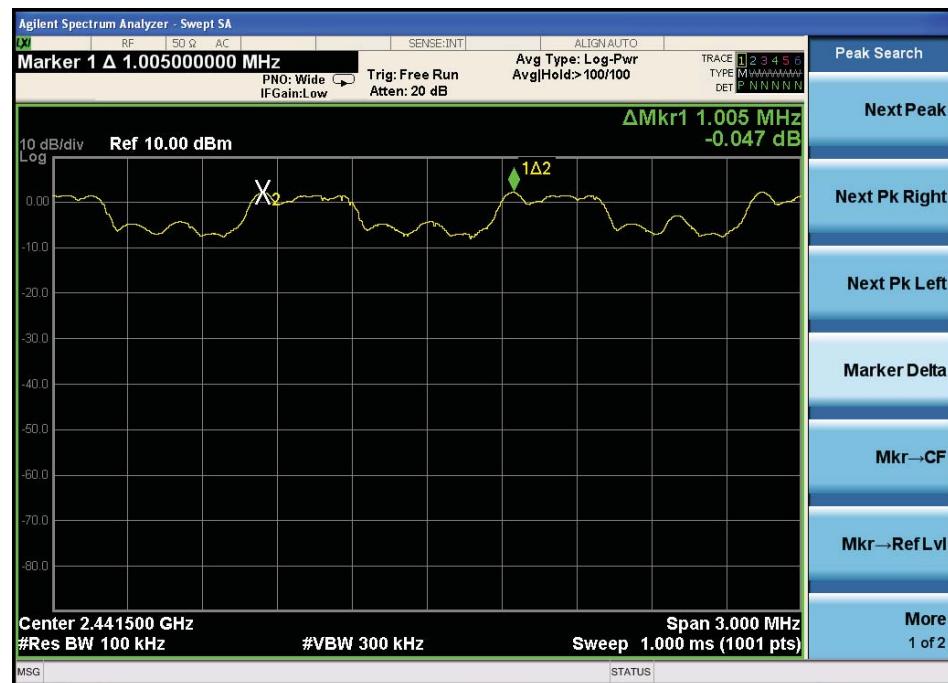
5.3. Test Result

EUT: Bluetooth headset M/N: KBJ-152N				
Test date: 2015-09-09	Test site: RF site	Tested by: Simple		
Mode/Channel	Channel separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz) 2/3 20dB bandwidth	Conclusion
GFSK	1.002	0.838	0.559	PASS
$\pi/4$ QPSK	1.005	1.118	0.745	PASS
8DPSK	1.002	1.164	0.776	PASS

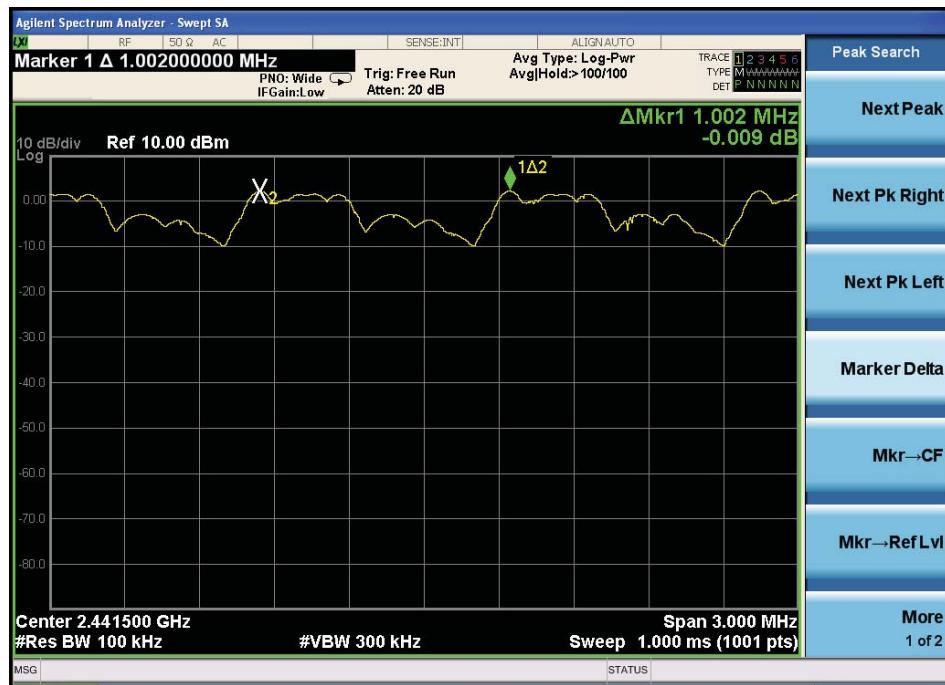
Orginal test data for channel separation
GFSK



$\pi/4$ QPSK



8DPSK



6. Number Of Hopping Channel

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

6.2. Test Procedure

The transmitter output was coupled to a spectrum analyzer via a antenna. The number of hopping channel was measured by spectrum analyzer with 300kHz RBW and 1MHz VBW.

6.3. Test Result

EUT: Bluetooth headset		M/N: KBJ-152N	
Test date: 2015-09-09		Test site: RF site	Tested by: Eric
Mode	Number of hopping channel	Limit	Conclusion
GFSK	79	>15	PASS
$\pi/4$ QPSK	79	>15	PASS
8DPSK	79	>15	PASS

Original test data for hopping channel number
GFSK



$\pi/4$ QPSK



8DPSK



7. Dwell Time

7.1. Test limit

Please refer section 15.247

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

7.2. Test Procedure

- 7.2.1. Place the EUT on the table and set it in transmitting mode.
- 7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 7.2.3. Set center frequency of spectrum analyzer = operating frequency.
- 7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 7.2.5. Repeat above procedures until all frequency measured were complete.

7.3. Test Results

PASS.

Detailed information please see the following page.

EUT: Bluetooth headset		M/N: KBJ-152N				
Test date: 2015-09-09		Test site: RF site		Tested by: Eric		
Mode	Data Packet	Frequency (MHz)	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Conclusion
GFSK	DH1	2441	0.364	0.233	<0.4	PASS
	DH3	2441	1.620	0.346	<0.4	PASS
	DH5	2441	2.868	0.367	<0.4	PASS
$\pi/4$ QPSK	DH1	2441	0.376	0.241	<0.4	PASS
	DH3	2441	1.624	0.346	<0.4	PASS
	DH5	2441	2.880	0.369	<0.4	PASS
8DPSK	DH1	2441	0.376	0.241	<0.4	PASS
	DH3	2441	1.620	0.346	<0.4	PASS
	DH5	2441	2.872	0.368	<0.4	PASS

Note: 1 A period time = 0.4 (s) * 79 = 31.6(s)

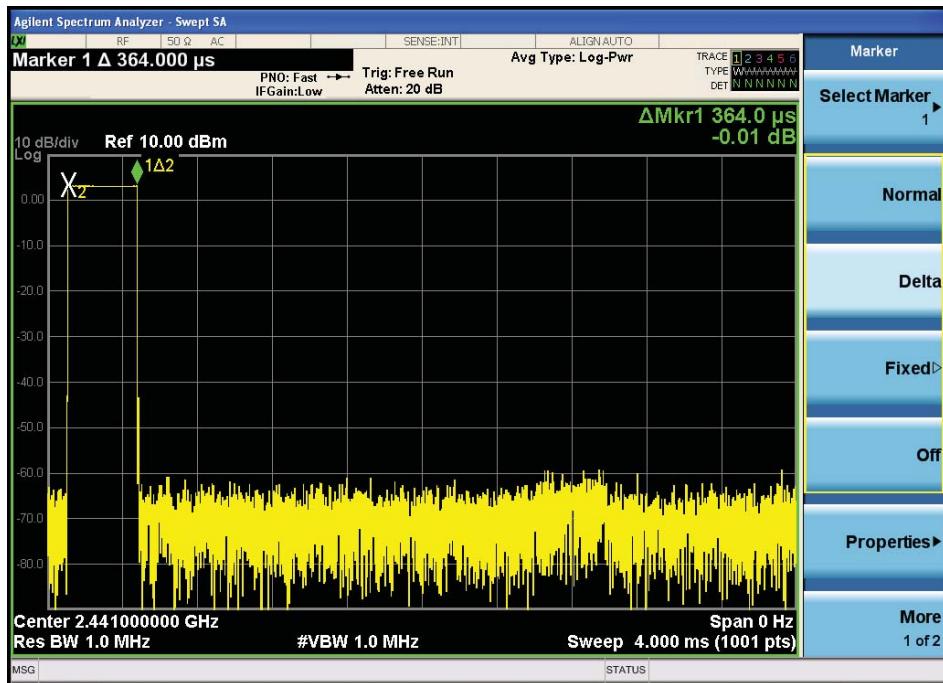
2 DH1 time slot = Pulse Duration * (1600/(1*79)) * A period time

DH3 time slot = Pulse Duration * (1600/(3*79)) * A period time

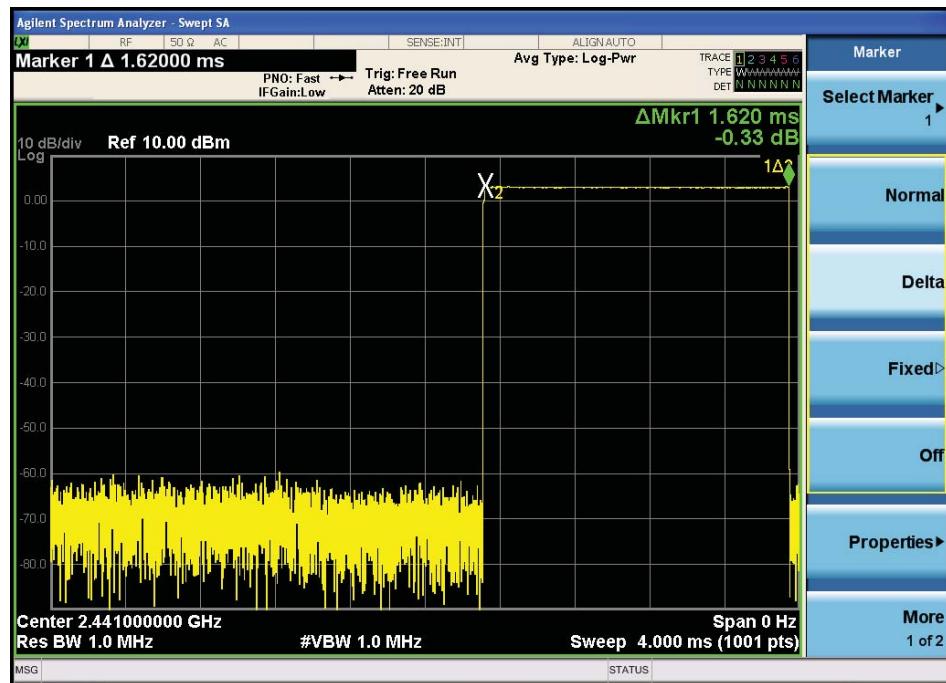
DH5 time slot = Pulse Duration * (1600/(5*79)) * A period time

GFSK

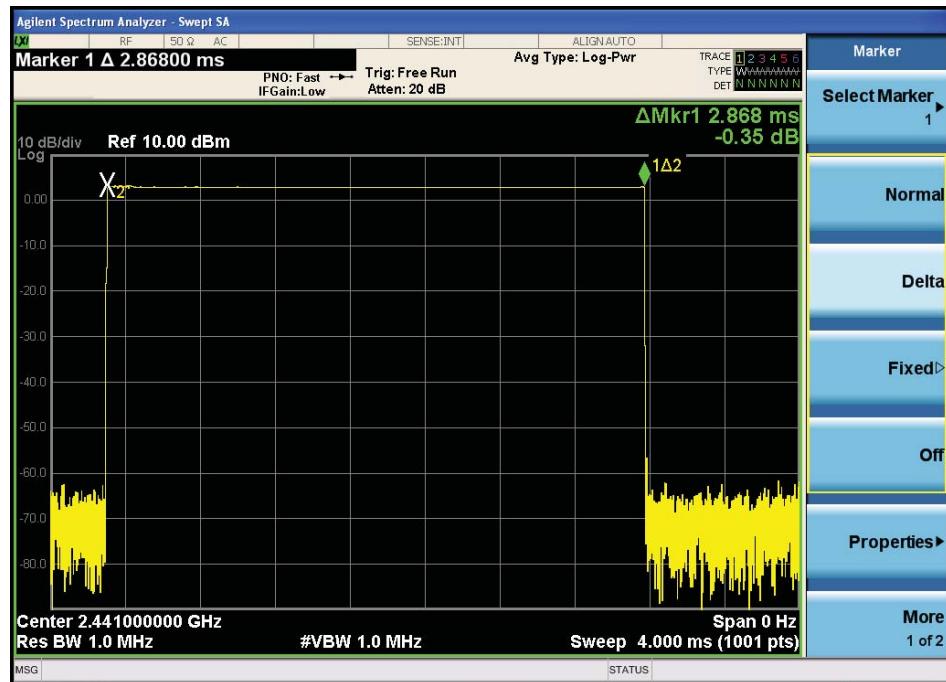
DH1:



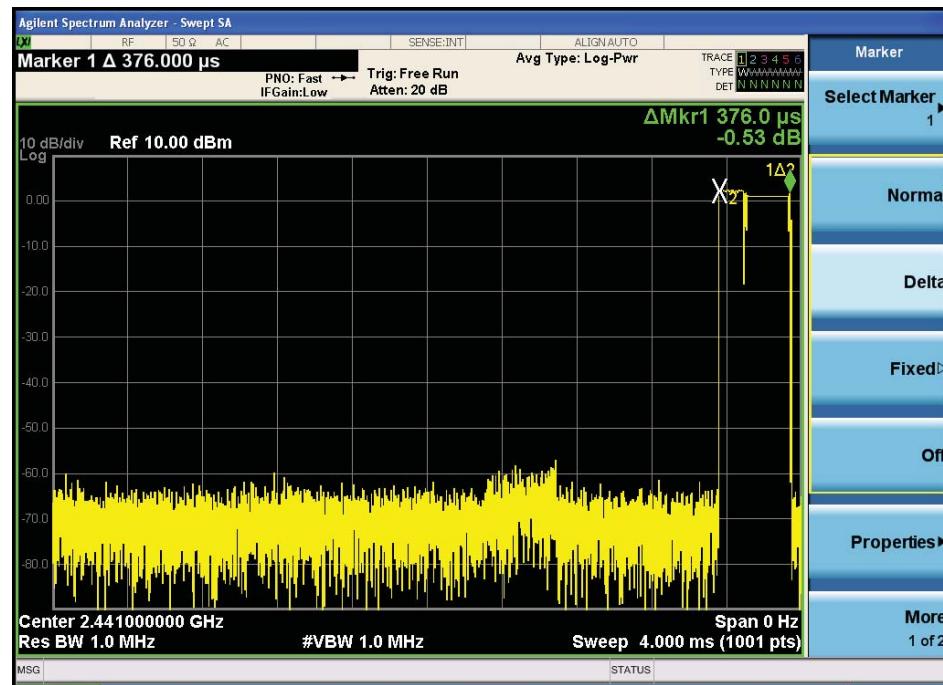
DH3:



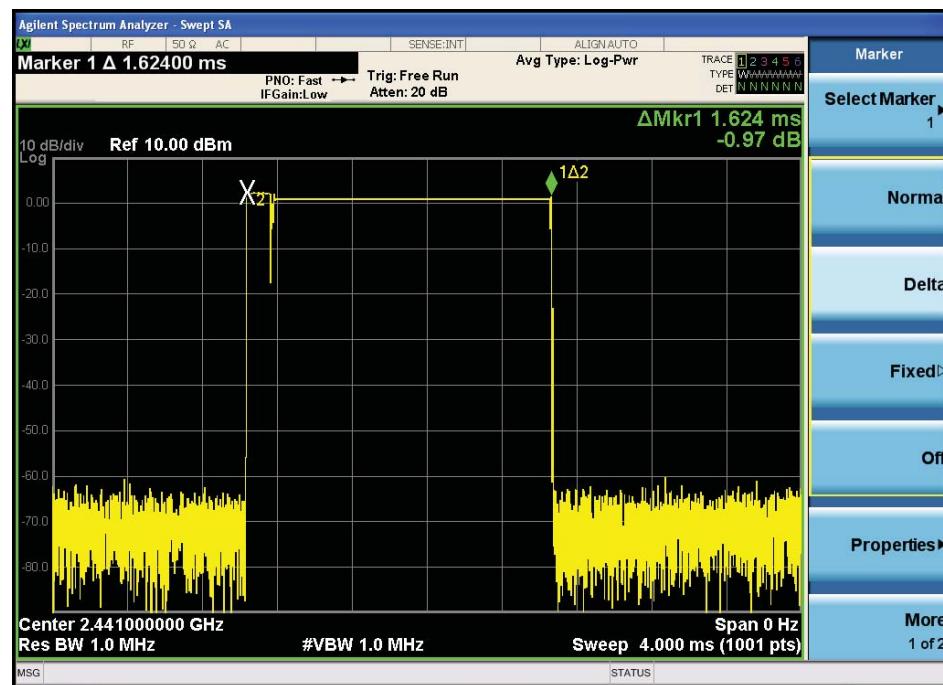
DH5



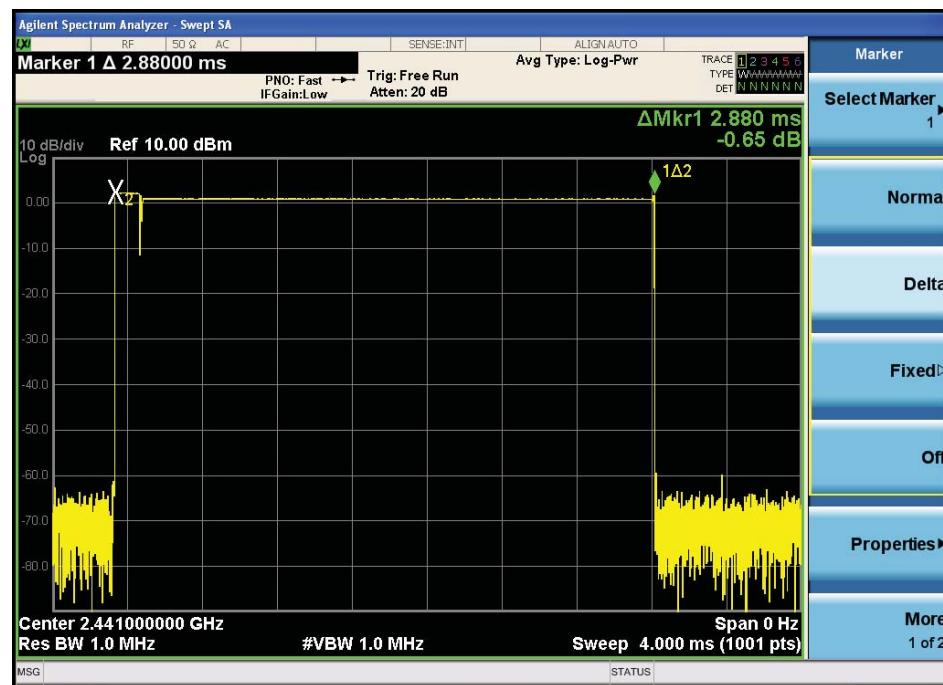
$\pi/4$ QPSK
DH1



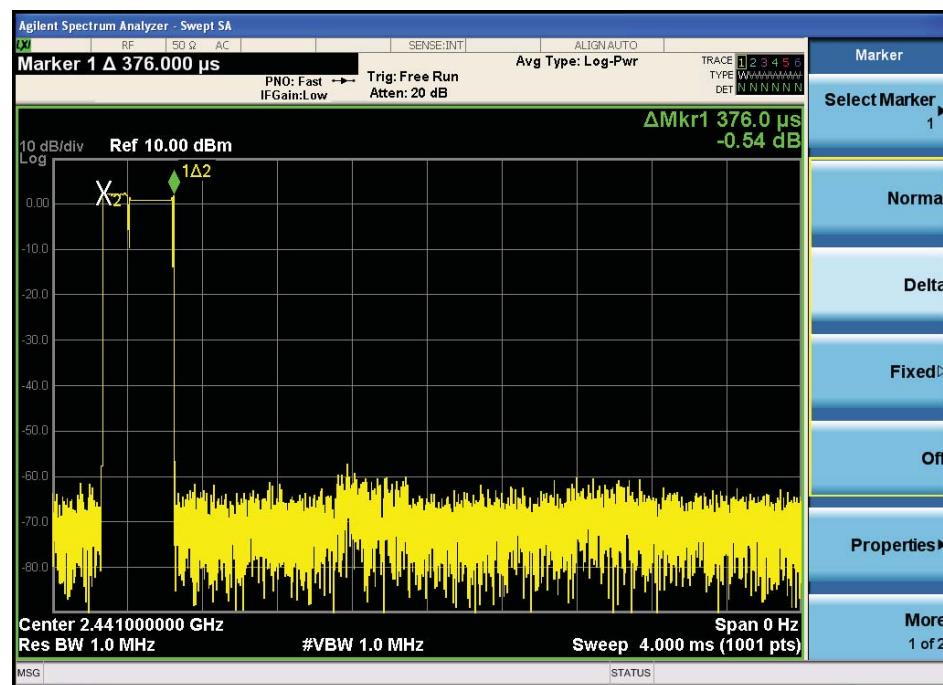
DH3



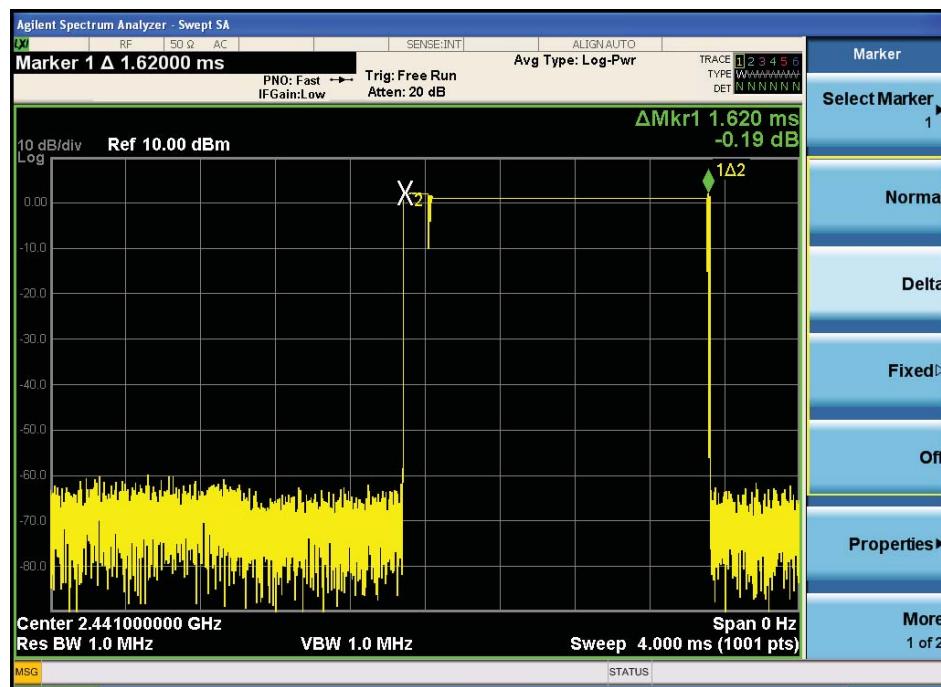
DH5



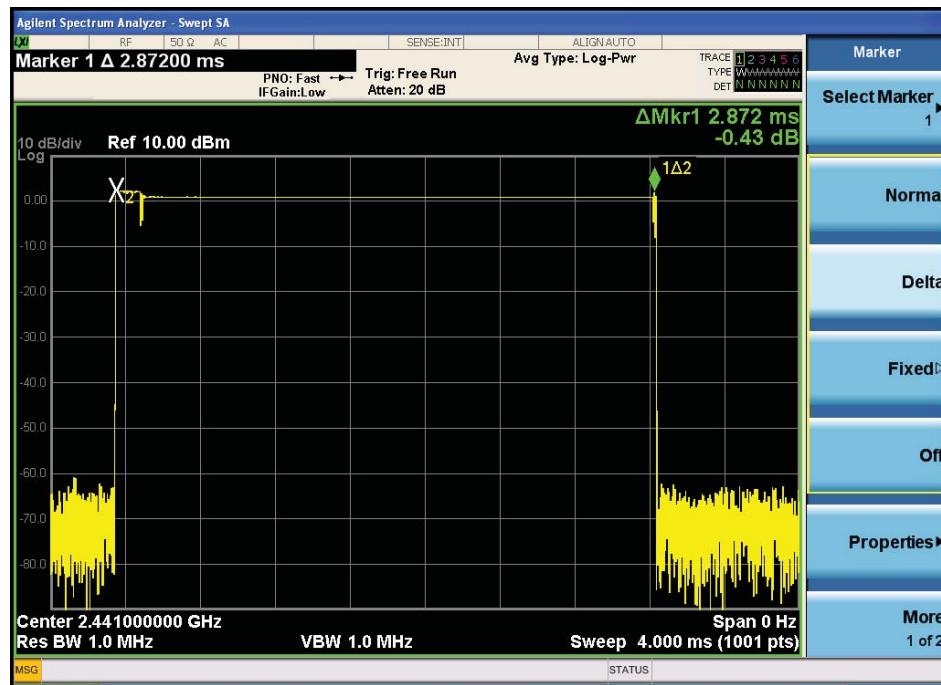
8DPSK
DH1



DH3



DH5



8. Radiated emissions

8.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

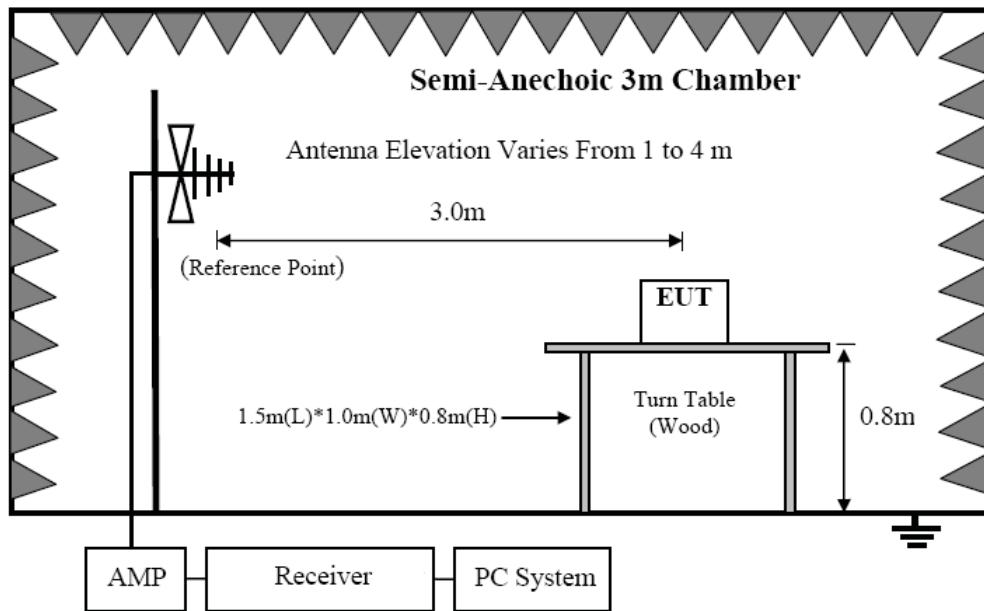
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

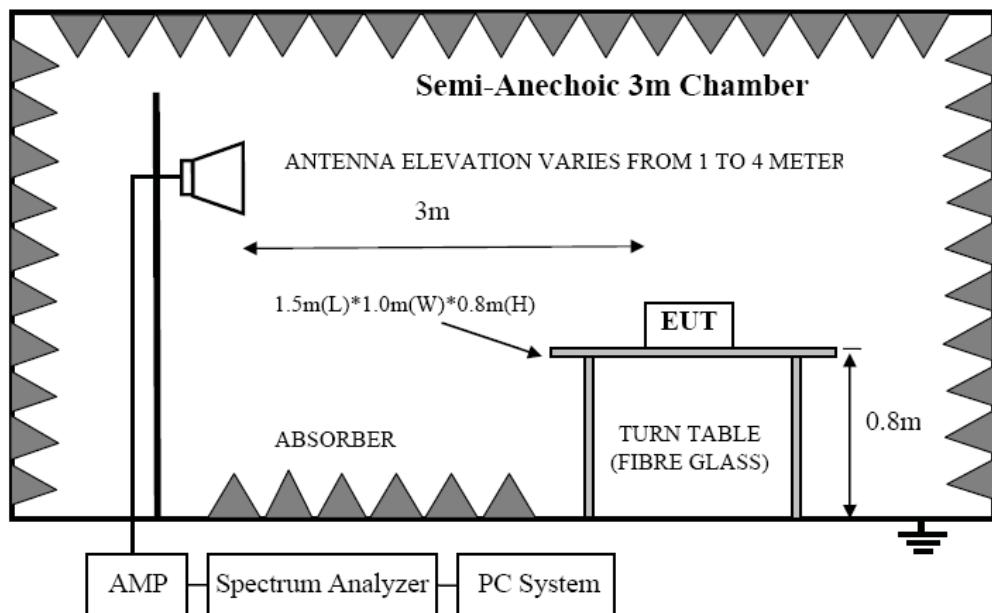
FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

8.2. Block Diagram of Test setup

8.2.1. In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



8.2.2. In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

8.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic

- chamber.
- (2) Setup EUT and simulator as shown in section 1.4 and 6.1
 - (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
 - (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
 - (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2014 on Radiated Emission test.
 - (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW is set at 10Hz for Average measure.

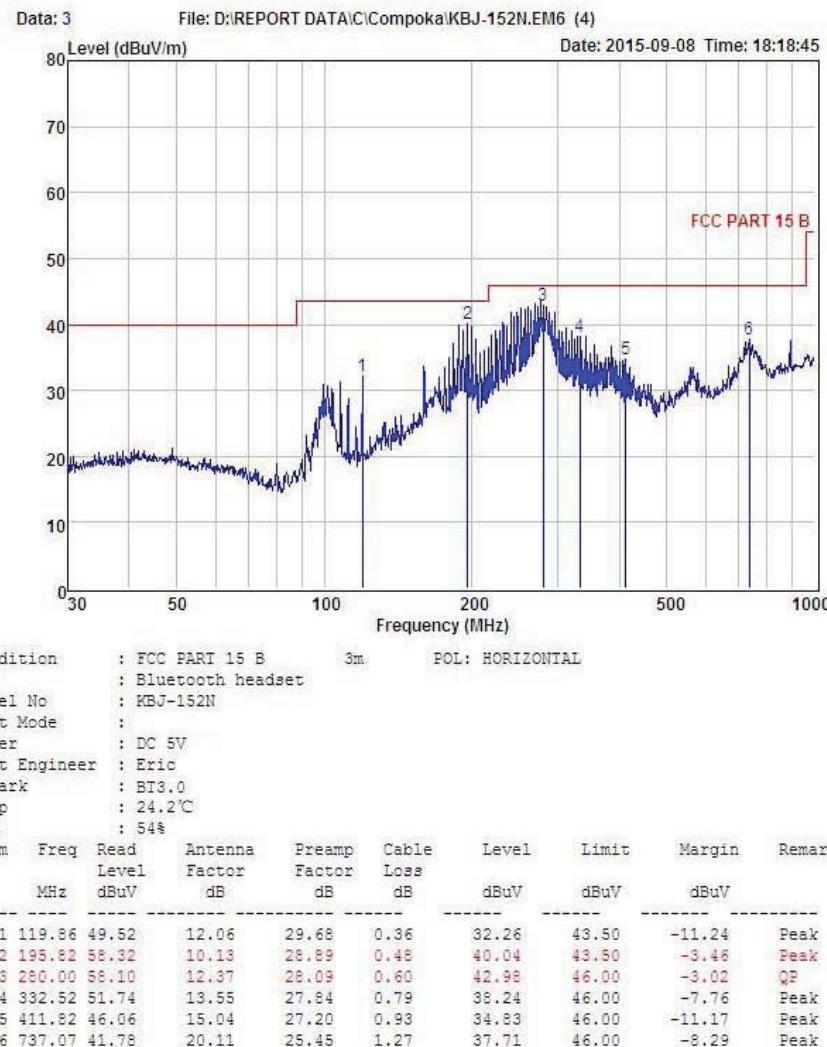
8.4. Test Result

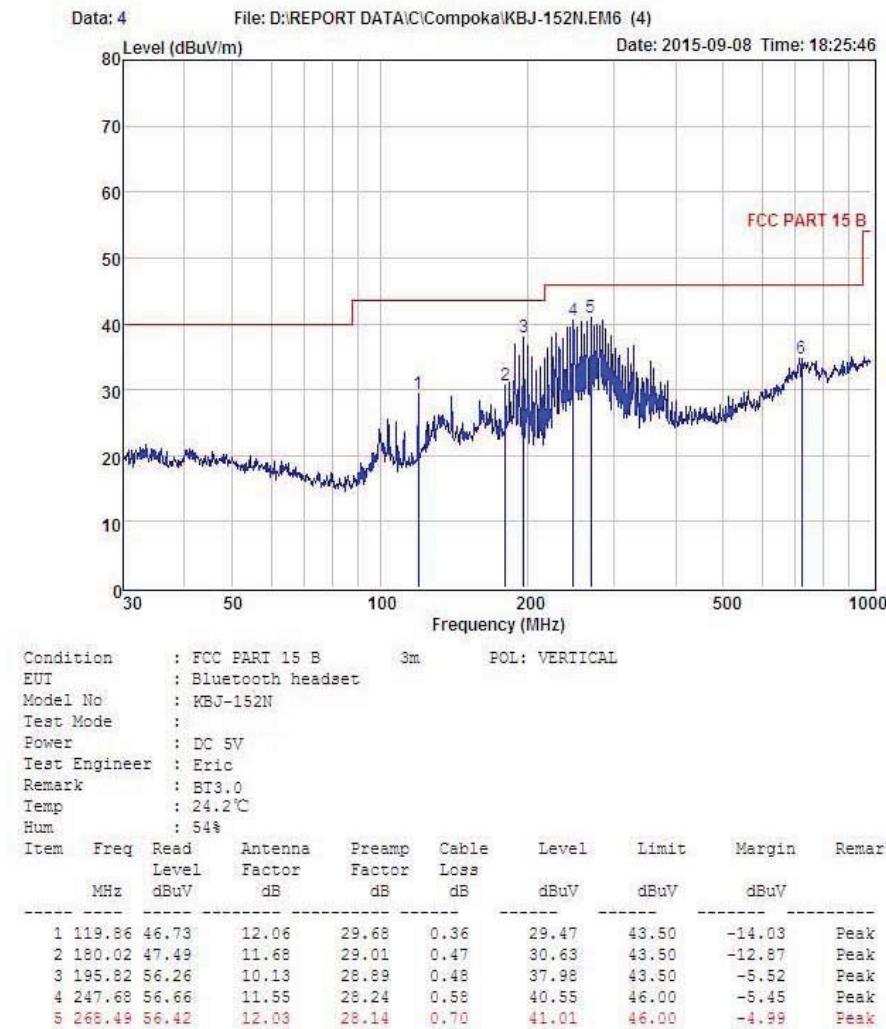
We have scanned the 10th harmonic from 9KHz to the EUT.
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

From 30MHz to 1000MHz: Conclusion: PASS





Remark: All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.

1GHz—25GHz Radiated emissison Test result									
EUT: Bluetooth headset	M/N: KBJ-152N								
Power: DC 3.7V From battery									
Test date: 2015-09-09	Test site: 3m Chamber Tested by: Eric								
Test mode: GFSK Tx CH1 2402MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	43.69	33.95	10.18	34.26	53.56	74	20.44	PK
2	4804	30.43	33.95	10.18	34.26	40.3	54	13.7	AV
3	7206	/							
4	9608	/							
5	12010	/							
Antenna Polarity: Horizontal									
1	4804	40.39	33.95	10.18	34.26	50.26	74	23.74	PK
2	4804	30.88	33.95	10.18	34.26	40.75	54	13.25	AV
3	7206	/							
4	9608	/							
5	12010	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result													
EUT: Bluetooth headset		M/N: KBJ-152N											
Power: DC 3.7V From battery													
Test date: 2015-09-09				Test site: 3m Chamber		Tested by: Eric							
Test mode: GFSK Tx CH40 2441MHz													
Antenna polarity: Vertical													
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
1	4882	41.08	33.93	10.2	34.29	50.92	74	23.08	PK				
2	4882	30.75	33.93	10.2	34.29	40.59	54	13.41	AV				
3	7323	/											
4	9764	/											
5	12205	/											
Antenna Polarity: Horizontal													
1	4882	40.97	33.93	10.2	34.29	50.81	74	23.19	PK				
2	4882	31.26	33.93	10.2	34.29	41.1	54	12.9	AV				
3	7323	/											
4	9764	/											
5	12205	/											
Note:													
1, Measuring frequency from 1GHz to 25GHz													
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK													
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK													
3, Result = Read level + Antenna factor + cable loss-Amp factor													
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.													

1GHz—25GHz Radiated emission Test result									
EUT: Bluetooth headset	M/N: KBJ-152N								
Power: DC 3.7V From battery									
Test date: 2015-09-09	Test site: 3m Chamber Tested by: Eric								
Test mode: GFSK Tx CH79 2480MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	40.79	33.98	10.22	34.25	50.74	74	23.26	PK
2	4960	31.44	33.98	10.22	34.25	41.39	54	12.61	AV
3	7440	/							
4	9920	/							
5	12400	/							
Antenna Polarity: Horizontal									
1	4960	41.43	33.98	10.22	34.25	51.38	74	22.62	PK
2	4960	30.69	33.98	10.22	34.25	40.64	54	13.36	AV
3	7440	/							
4	9920	/							
5	12400	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emission Test result									
EUT: Bluetooth headset					M/N: KBJ-152N				
Power: DC 3.7V From battery									
Test date: 2015-09-09 Test site: 3m Chamber Tested by: Eric									
Test mode: π /4 QPSK Tx CH1 2402MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4804	43.86	33.95	10.18	34.26	53.73	74	20.27	PK
2	4804	31.74	33.95	10.18	34.26	41.61	54	12.39	AV
3	7206	/							
4	9608	/							
5	12010	/							
Antenna Polarity: Horizontal									
1	4804	41.46	33.95	10.18	34.26	51.33	74	22.67	PK
2	4804	32.03	33.95	10.18	34.26	41.9	54	12.1	AV
3	7206	/							
4	9608	/							
5	12010	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

1GHz—25GHz Radiated emissison Test result													
EUT: Bluetooth headset		M/N: KBJ-152N											
Power: DC 3.7V From battery													
Test date: 2015-09-09				Test site: 3m Chamber		Tested by: Eric							
Test mode: $\pi/4$ QPSK Tx CH40 2441MHz													
Antenna polarity: Vertical													
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
1	4882	41.76	33.93	10.2	34.29	51.6	74	22.4	PK				
2	4882	30.87	33.93	10.2	34.29	40.71	54	13.29	AV				
3	7323	/											
4	9764	/											
5	12205	/											
Antenna Polarity: Horizontal													
1	4882	40.59	33.93	10.2	34.29	50.43	74	23.57	PK				
2	4882	30.73	33.93	10.2	34.29	40.57	54	13.43	AV				
3	7323	/											
4	9764	/											
5	12205	/											
Note:													
1, Measuring frequency from 1GHz to 25GHz													
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK													
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK													
3, Result = Read level + Antenna factor + cable loss-Amp factor													
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.													

1GHz—25GHz Radiated emission Test result									
EUT: Bluetooth headset	M/N: KBJ-152N								
Power: DC 3.7V From battery									
Test date: 2015-09-09	Test site: 3m Chamber Tested by: Eric								
Test mode: $\pi/4$ QPSK Tx CH79 2480MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	41.63	33.98	10.22	34.25	51.58	74	22.42	PK
2	4960	31.51	33.98	10.22	34.25	41.46	54	12.54	AV
3	7440	/							
4	9920	/							
5	12400	/							
Antenna Polarity: Horizontal									
1	4960	40.48	33.98	10.22	34.25	50.43	74	23.57	PK
2	4960	30.82	33.98	10.22	34.25	40.77	54	13.23	AV
3	7440	/							
4	9920	/							
5	12400	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

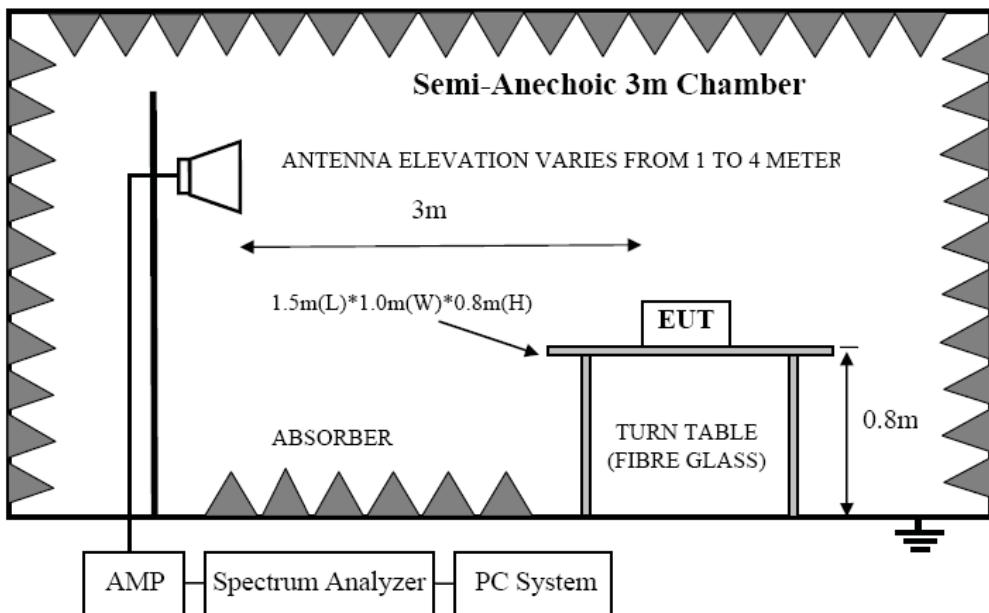
1GHz—25GHz Radiated emission Test result																
EUT: Bluetooth headset			M/N: KBJ-152N													
Power: DC 3.7V From battery																
Test date: 2015-09-09 Test site: 3m Chamber Tested by: Eric																
Test mode: 8DPSK Tx CH1 2402MHz																
Antenna polarity: Vertical																
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
1	4804	42.55	33.95	10.18	34.26	52.42	74	21.58	PK							
2	4804	31.53	33.95	10.18	34.26	41.4	54	12.6	AV							
3	7206	/														
4	9608	/														
5	12010	/														
Antenna Polarity: Horizontal																
1	4804	41.47	33.95	10.18	34.26	51.34	74	22.66	PK							
2	4804	30.73	33.95	10.18	34.26	40.6	54	13.4	AV							
3	7206	/														
4	9608	/														
5	12010	/														
Note:																
1, Measuring frequency from 1GHz to 25GHz																
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK																
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK																
3, Result = Read level + Antenna factor + cable loss-Amp factor																
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.																

1GHz—25GHz Radiated emissison Test result													
EUT: Bluetooth headset		M/N: KBJ-152N											
Power: DC 3.7V From battery													
Test date: 2015-09-09				Test site: 3m Chamber		Tested by: Eric							
Test mode: 8DPSK Tx CH40 2441MHz													
Antenna polarity: Vertical													
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark				
1	4882	41.83	33.93	10.2	34.29	51.67	74	22.33	PK				
2	4882	30.07	33.93	10.2	34.29	39.91	54	14.09	AV				
3	7323	/											
4	9764	/											
5	12205	/											
Antenna Polarity: Horizontal													
1	4882	41.69	33.93	10.2	34.29	51.53	74	22.47	PK				
2	4882	30.84	33.93	10.2	34.29	40.68	54	13.32	AV				
3	7323	/											
4	9764	/											
5	12205	/											
Note:													
1, Measuring frequency from 1GHz to 25GHz													
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK													
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK													
3, Result = Read level + Antenna factor + cable loss-Amp factor													
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.													

1GHz—25GHz Radiated emission Test result									
EUT: Bluetooth headset	M/N: KBJ-152N								
Power: DC 3.7V From battery									
Test date: 2015-09-09	Test site: 3m Chamber Tested by: Eric								
Test mode: 8DPSK Tx CH79 2480MHz									
Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4960	40.84	33.98	10.22	34.25	50.79	74	23.21	PK
2	4960	30.71	33.98	10.22	34.25	40.66	54	13.34	AV
3	7440	/							
4	9920	/							
5	12400	/							
Antenna Polarity: Horizontal									
1	4960	41.18	33.98	10.22	34.25	51.13	74	22.87	PK
2	4960	30.74	33.98	10.22	34.25	40.69	54	13.31	AV
3	7440	/							
4	9920	/							
5	12400	/							
Note:									
1, Measuring frequency from 1GHz to 25GHz									
2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK									
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK									
3, Result = Read level + Antenna factor + cable loss-Amp factor									
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.									

9. Band Edge Compliance

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

All restriction band and non-restriction band have been tested, only worse case is reported.

9.4. Test Result

PASS. (See below detailed test data)

Radiated Method

GFSK

CH LOW :

GFSK (CH Low)

Band Edge Test result														
EUT: Bluetooth headset			M/N: KBJ-152N											
Power: DC 5.0V From adapter														
Test date: 2015-09-10 Test site: 3m Chamber Tested by: Eric														
Test mode: Tx CH Low 2402MHz														
Antenna polarity: Vertical														
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark						
2390	43.77	27.62	3.92	34.97	40.34	74	33.66	PK						
2390	--	27.62	3.92	34.97	--	54	--	AV						
2400	42.53	27.62	3.94	34.97	39.12	74	34.88	PK						
2400	--	27.62	3.94	34.97	--	54	--	AV						
Antenna Polarity: Horizontal														
2390	42.02	27.62	3.92	34.97	38.59	74	35.41	PK						
2390	--	27.62	3.92	34.97	--	54	--	AV						
2400	42.37	27.62	3.94	34.97	38.96	74	35.04	PK						
2400	--	27.62	3.94	34.97	--	54	--	AV						
Note:														
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK														
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK														
3, Result = Read level + Antenna factor + cable loss-Amp factor														
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.														

GFSK (CH High)

Band Edge Test result								
EUT: Bluetooth headset	M/N: KBJ-152N							
Power: DC 5.0V From adapter								
Test date: 2015-09-10	Test site: 3m Chamber Tested by: Eric							
Test mode: Tx CH High 2480MHz								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	42.97	27.89	4	34.97	39.89	74	34.11	PK
2483.5	--	27.89	4	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2483.5	42.931	27.89	4	34.97	39.851	74	34.149	PK
2483.5	--	27.89	4	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

GFSK (Hopping Low)

Band Edge Test result								
EUT: Bluetooth headset	M/N: KBJ-152N							
Power: DC 5.0V From adapter								
Test date: 2015-09-10	Test site: 3m Chamber Tested by: Eric							
Test mode: Tx								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	42.08	27.62	3.92	34.97	38.65	74	35.35	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	43.75	27.62	3.92	34.97	40.34	74	33.66	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

GFSK (Hopping High)

Band Edge Test result								
EUT: Bluetooth headset	M/N: KBJ-152N							
Power: DC 5.0V From adapter								
Test date: 2015-09-10	Test site: 3m Chamber Tested by: Eric							
Test mode: Tx								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2483.5	42.23	27.89	4	34.97	39.15	74	34.85	PK
2483.5	--	27.89	4	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2483.5	42.51	27.89	4	34.97	39.43	74	34.57	PK
2483.5	--	27.89	4	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

$\pi/4$ QPSK (CH Low)

Band Edge Test result															
EUT: Bluetooth headset		M/N: KBJ-152N													
Power: DC 5.0V From adapter															
Test date: 2015-09-10 Test site: 3m Chamber Tested by: Eric															
Test mode: Tx CH Low 2402MHz															
Antenna polarity: Vertical															
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
2390	43.29	27.62	3.92	34.97	39.86	74	34.14	PK							
2390	--	27.62	3.92	34.97	--	54	--	AV							
Antenna Polarity: Horizontal															
2390	42.51	27.62	3.92	34.97	39.08	74	34.92	PK							
2390	--	27.62	3.92	34.97	--	54	--	AV							
Note:															
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK															
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK															
3, Result = Read level + Antenna factor + cable loss-Amp factor															
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.															

$\pi/4$ QPSK (CH High)

Band Edge Test result															
EUT: Bluetooth headset		M/N: KBJ-152N													
Power: DC 5.0V From adapter															
Test date: 2015-09-10 Test site: 3m Chamber Tested by: Eric															
Test mode: Tx CH High 2480MHz															
Antenna polarity: Vertical															
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
2483.5	46.71	27.89	4	34.97	43.63	74	30.37	PK							
2483.5		--	--	--	--	54	--	AV							
Antenna Polarity: Horizontal															
2483.5	46.96	27.89	4	34.97	43.88	74	30.12	PK							
2483.5		--	--	--	--	54	--	AV							
Note:															
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK															
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK															
3, Result = Read level + Antenna factor + cable loss-Amp factor															
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.															

$\pi/4$ QPSK (Hopping Low)

Band Edge Test result															
EUT: Bluetooth headset		M/N: KBJ-152N													
Power: DC 5.0V From adapter															
Test date: 2015-09-10 Test site: 3m Chamber Tested by: Eric															
Test mode:															
Antenna polarity: Vertical															
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
2390	44.7	27.62	3.92	34.97	41.27	74	32.73	PK							
2390	--	27.62	3.92	34.97	--	54	--	AV							
Antenna Polarity: Horizontal															
2390	42.66	27.62	3.92	34.97	39.27	74	34.73	PK							
2390	--	27.62	3.92	34.97	--	54	--	AV							
Note:															
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK															
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK															
3, Result = Read level + Antenna factor + cable loss-Amp factor															
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.															

$\pi/4$ QPSK (Hopping High)

Band Edge Test result															
EUT: Bluetooth headset		M/N: KBJ-152N													
Power: DC 5.0V From adapter															
Test date: 2015-09-10 Test site: 3m Chamber Tested by: Eric															
Test mode: Tx															
Antenna polarity: Vertical															
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
2483.5	42.1	27.89	4	34.97	39.02	74	34.98	PK							
2483.5	--	27.89	4	34.97	39.02	54	--	AV							
Antenna Polarity: Horizontal															
2483.5	43.53	27.89	4	34.97	40.45	74	33.55	PK							
2483.5	--	27.89	4	34.97	40.45	54	--	AV							
Note:															
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK															
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK															
3, Result = Read level + Antenna factor + cable loss-Amp factor															
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.															

8DPSK (CH Low)

Band Edge Test result								
EUT: Bluetooth headset	M/N: KBJ-152N							
Power: DC 5.0V From adapter								
Test date: 2015-09-10	Test site: 3m Chamber Tested by: Eric							
Test mode: Tx CH Low 2402MHz								
Antenna polarity: Vertical								
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2390	43.41	27.62	3.92	34.97	39.98	74	31.28	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Antenna Polarity: Horizontal								
2390	43.97	27.62	3.92	34.97	40.54	74	33.46	PK
2390	--	27.62	3.92	34.97	--	54	--	AV
Note:								
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK								
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK								
3, Result = Read level + Antenna factor + cable loss-Amp factor								
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.								

8DPSK (CH High)

Band Edge Test result															
EUT: Bluetooth headset		M/N: KBJ-152N													
Power: DC 5.0V From adapter															
Test date: 2015-09-10 Test site: 3m Chamber Tested by: Eric															
Test mode: Tx CH High 2480MHz															
Antenna polarity: Vertical															
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
2483.5	45.63	27.89	4	34.97	42.55	74	31.45	PK							
2483.5	--	--	--	--	--	54	--	AV							
Antenna Polarity: Horizontal															
2483.5	44.98	27.89	4	34.97	41.9	74	32.1	PK							
2483.5		--	--	--	--	54	--	AV							
Note:															
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK															
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK															
3, Result = Read level + Antenna factor + cable loss-Amp factor															
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.															

8DPSK (Hopping Low)

Band Edge Test result															
EUT: Bluetooth headset		M/N: KBJ-152N													
Power: DC 5.0V From adapter															
Test date: 2015-09-10 Test site: 3m Chamber Tested by: Eric															
Test mode: Tx															
Antenna polarity: Vertical															
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
2390	45.6	27.62	3.92	34.97	42.17	74	31.83	PK							
2390	--	27.62	3.92	34.97	--	54	--	AV							
Antenna Polarity: Horizontal															
2390	44.74	27.62	3.92	34.97	41.31	74	32.69	PK							
2390	--	27.62	3.92	34.97	--	54	--	AV							
Note:															
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK															
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK															
3, Result = Read level + Antenna factor + cable loss-Amp factor															
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.															

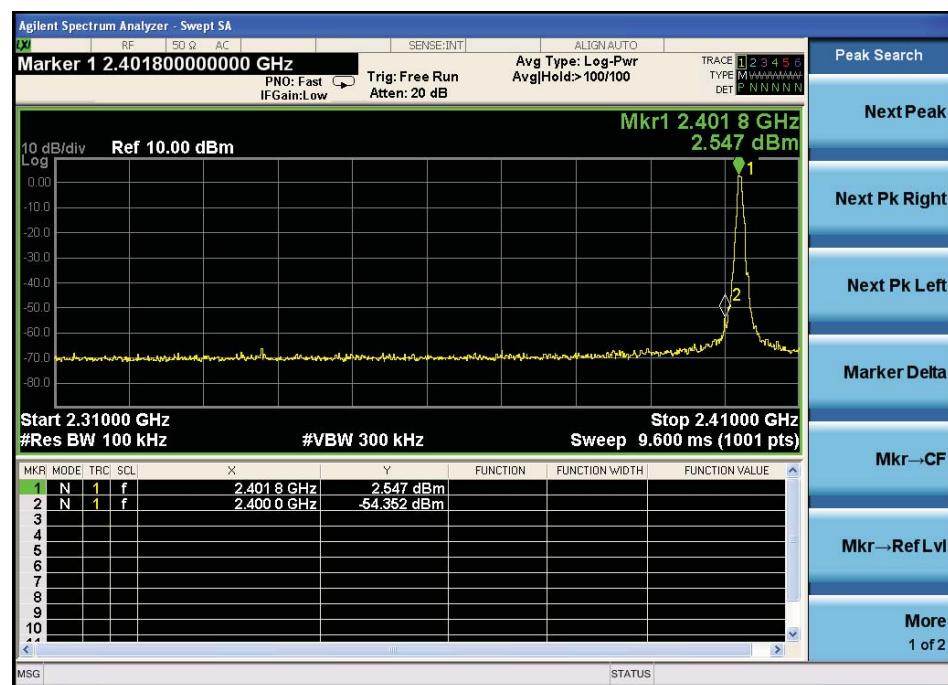
8DPSK (Hopping High)

Band Edge Test result															
EUT: Bluetooth headset		M/N: KBJ-152N													
Power: DC 5.0V From adapter															
Test date: 2015-09-10 Test site: 3m Chamber Tested by: Eric															
Test mode: Tx															
Antenna polarity: Vertical															
Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark							
2483.5	45.9	27.89	4	34.97	42.82	74	31.18	PK							
2483.5	--	--	--	--	--	54	--	AV							
Antenna Polarity: Horizontal															
2483.5	45.46	27.89	4	34.97	42.38	74	31.62	PK							
2483.5		--	--	--	--	54	--	AV							
Note:															
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK															
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK															
3, Result = Read level + Antenna factor + cable loss-Amp factor															
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.															

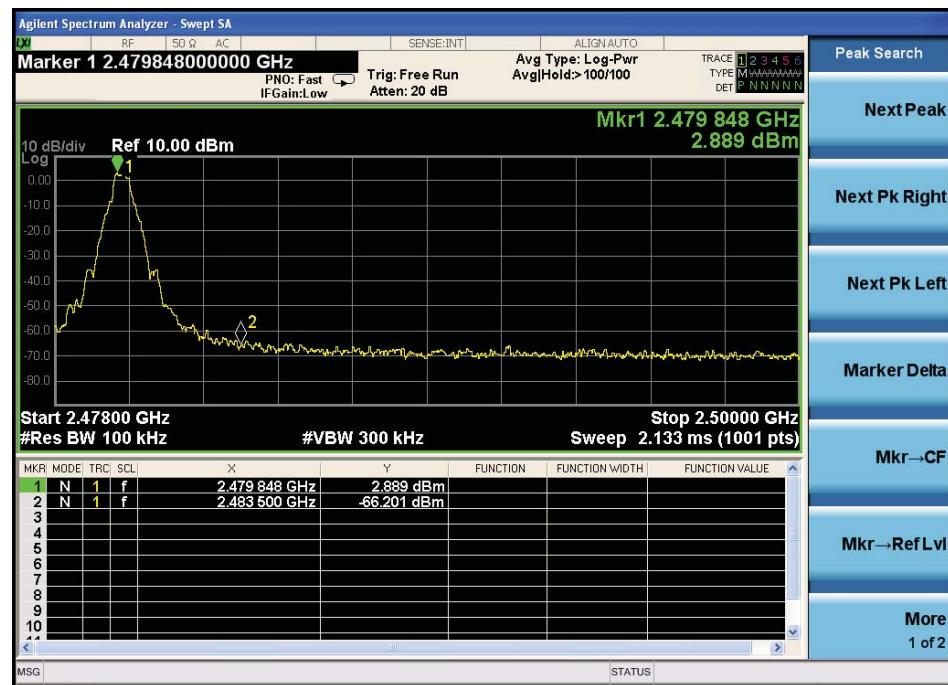
Conducted Method

GFSK

CH LOW :

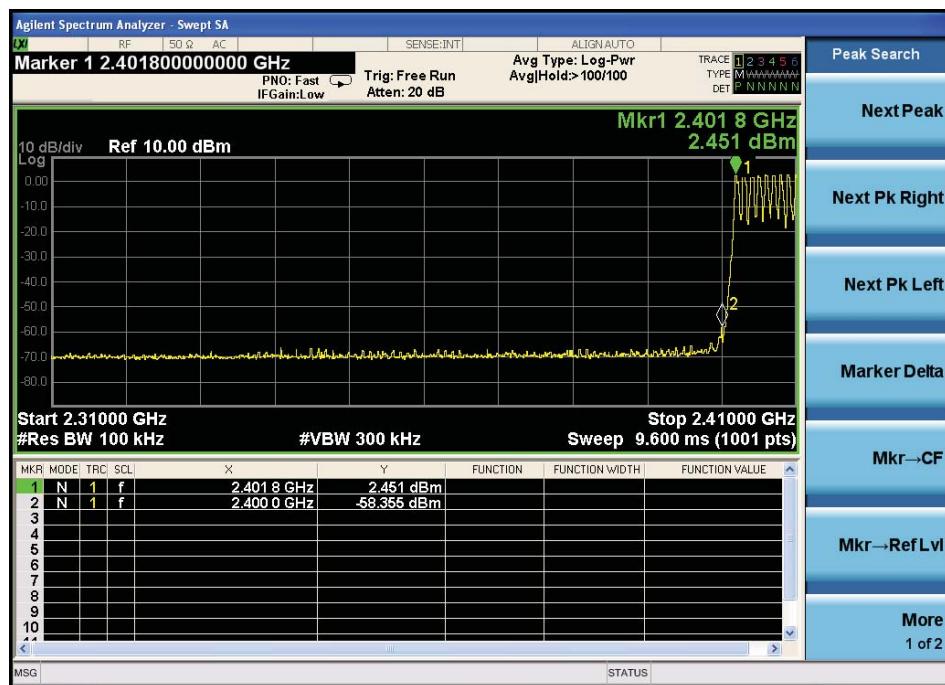


CH High :

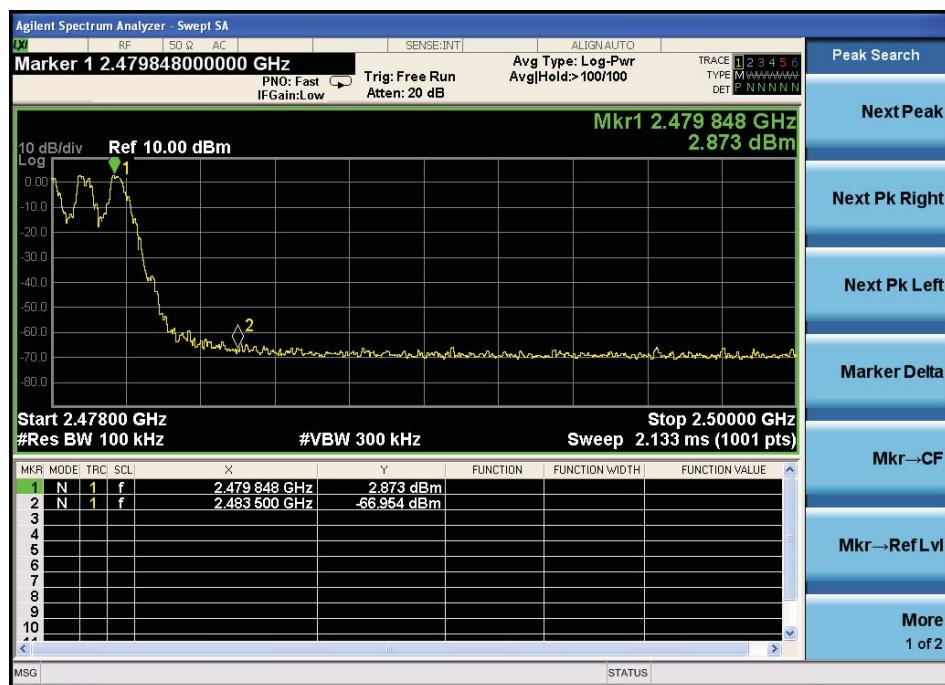


Hopping

Low

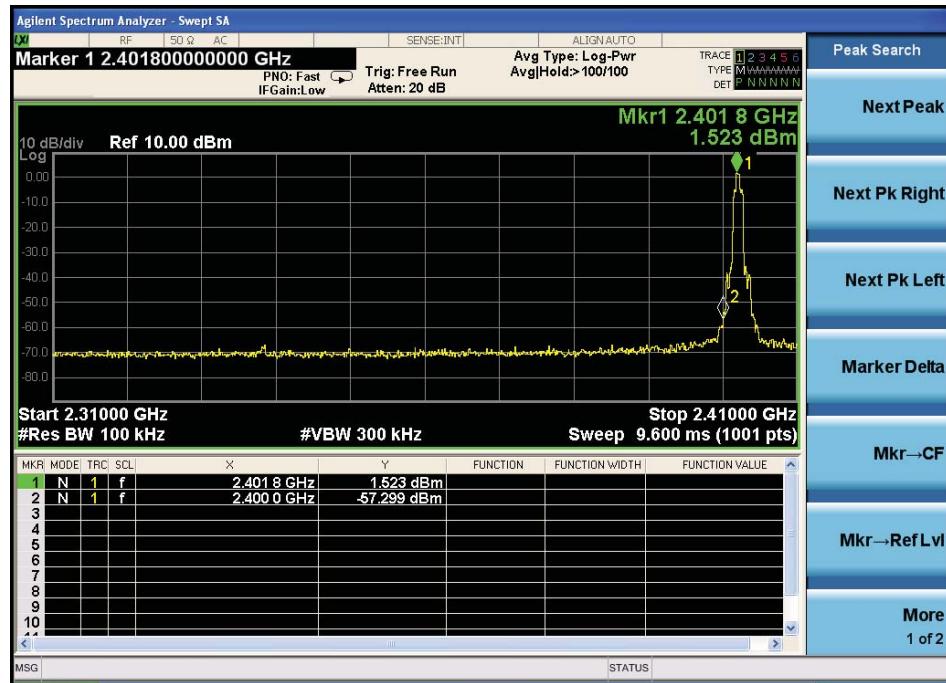


High



$\pi/4$ QPSK

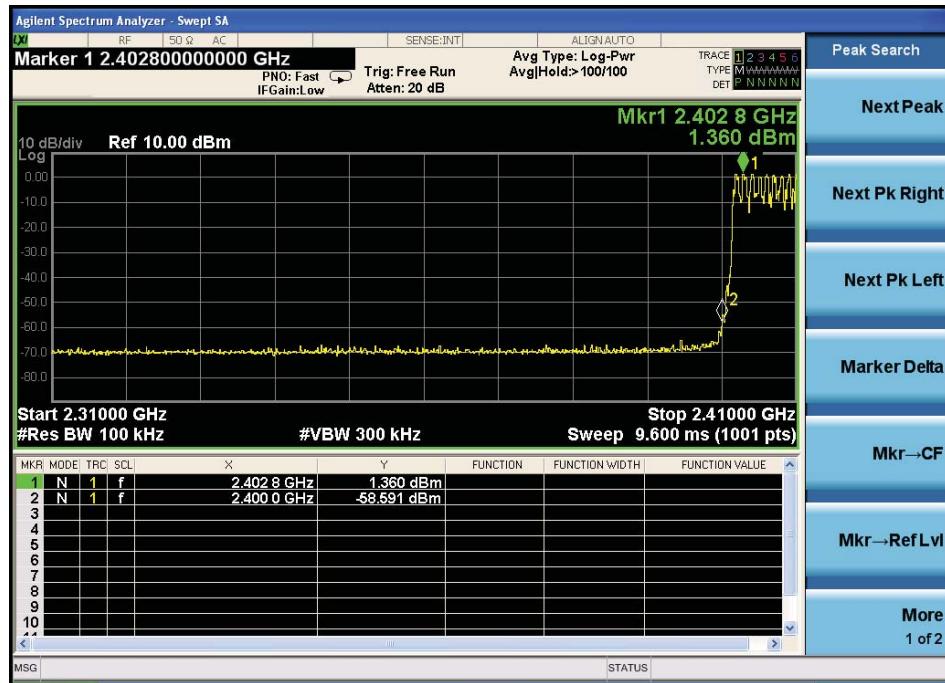
Low



High



Hopping
Low

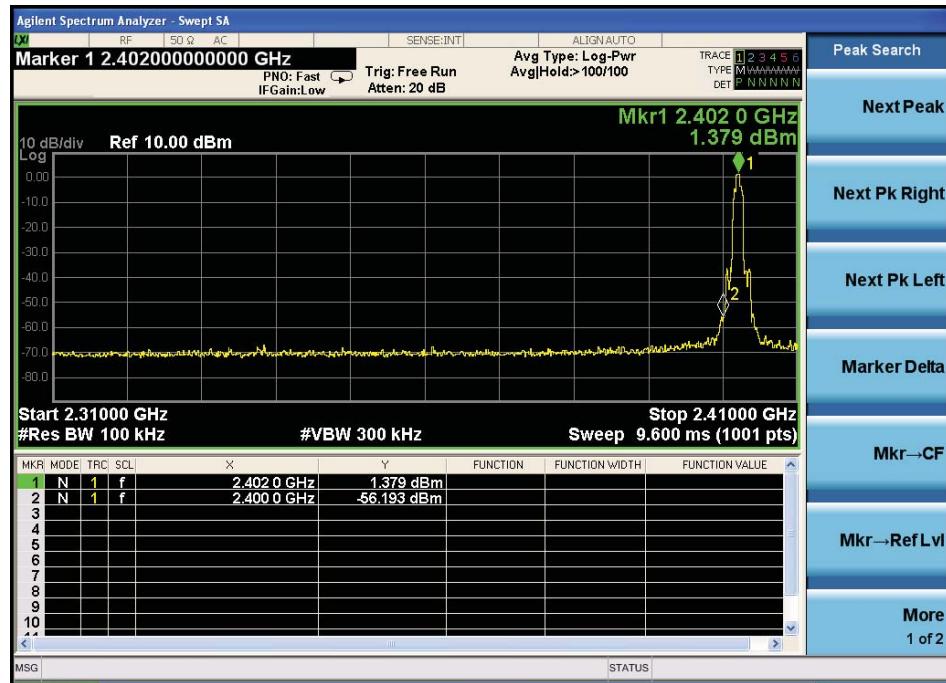


High



8DPSK

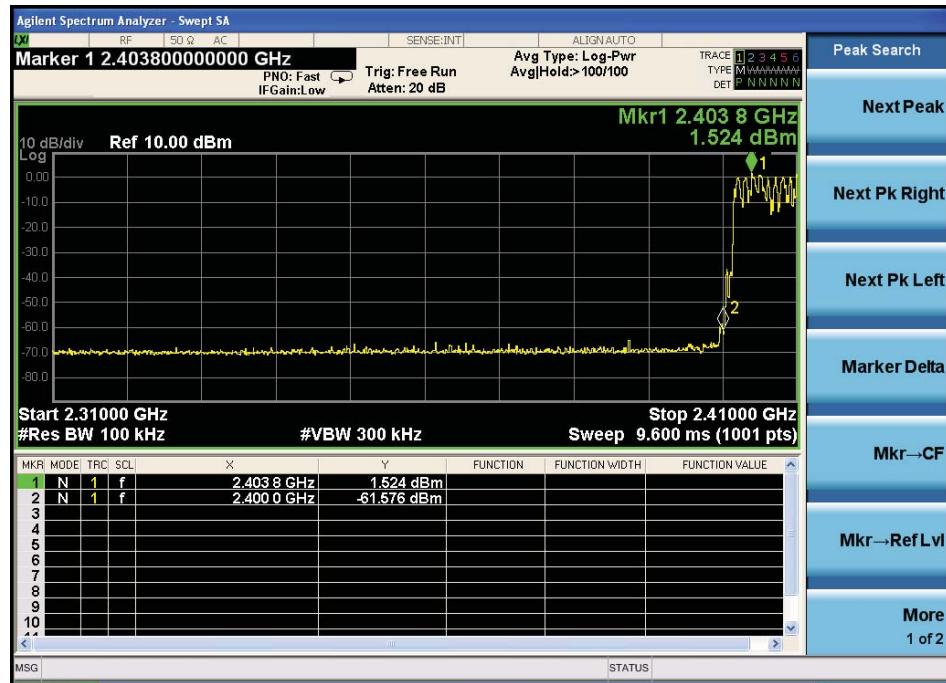
Low



High



Hopping
Low

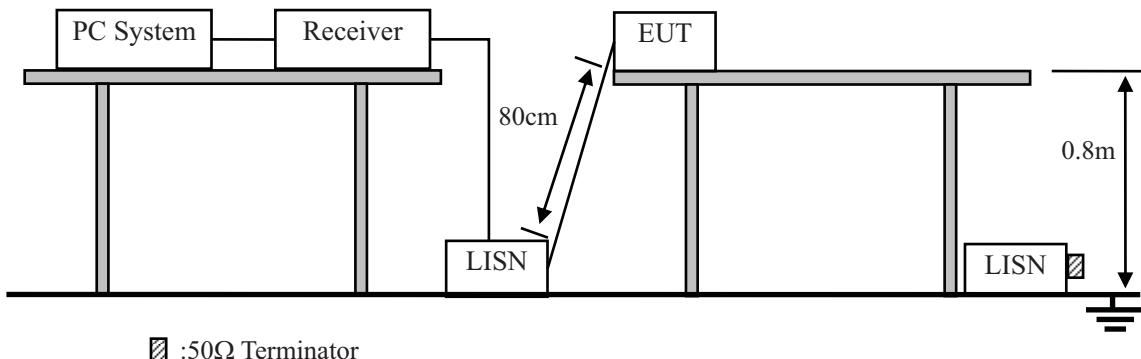


High



10. Power Line Conducted Emissions

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

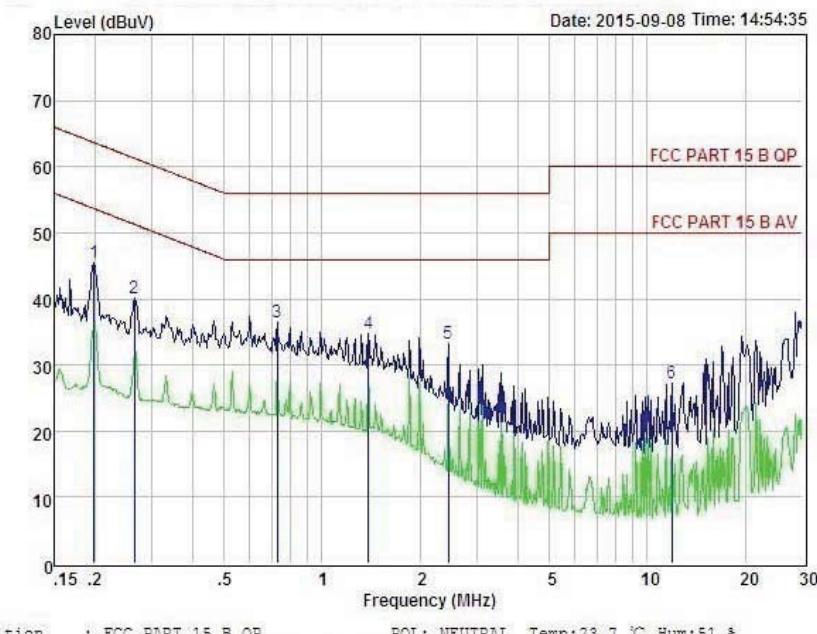
Notes: 1. * Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

10.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2014 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

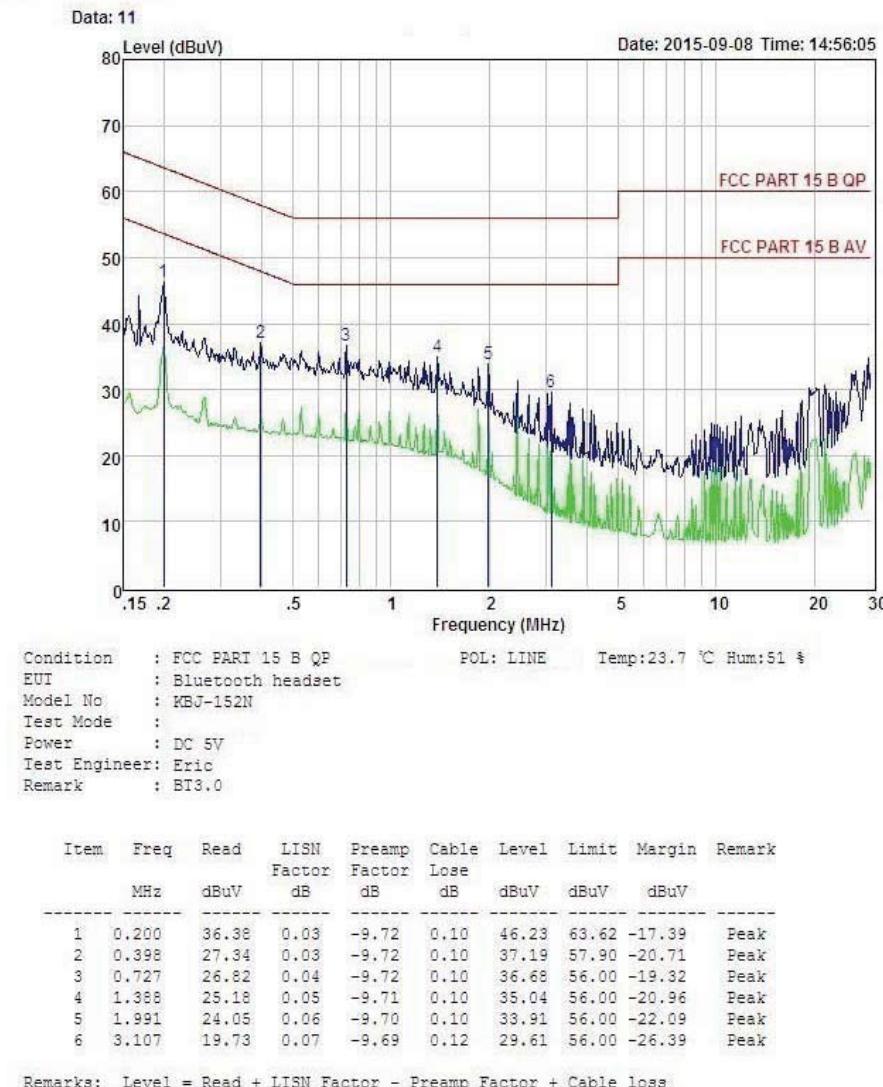
PASS. (See below detailed test data)



Condition : FCC PART 15 B QP POL: NEUTRAL Temp:23.7 °C Hum:51 %
 EUI : Bluetooth headset
 Model No : KBJ-152N
 Test Mode :
 Power : DC 5V
 Test Engineer: Eric
 Remark : BT3.0

Item	Freq	Read	LISN	Preamp	Cable	Level	Limit	Margin	Remark
			Factor	Factor	Loss	dBuV	dBuV	dBuV	
	MHz	dBuV	dB	dB	dB				
1	0.199	35.62	0.03	-9.72	0.10	45.47	63.67	-18.20	Peak
2	0.264	30.26	0.03	-9.72	0.10	40.11	61.29	-21.18	Peak
3	0.727	26.57	0.04	-9.72	0.10	36.43	56.00	-19.57	Peak
4	1.338	24.91	0.05	-9.71	0.10	34.77	56.00	-21.23	Peak
5	2.448	23.41	0.06	-9.70	0.11	33.28	56.00	-22.72	Peak
6	11.933	17.18	0.26	-9.47	0.22	27.13	60.00	-32.87	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



Note: If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

11. Antenna Requirements

11.1. Limit

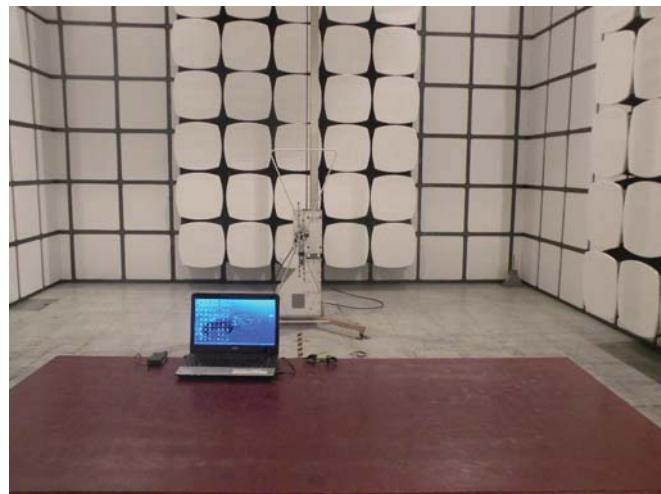
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

The antennas used for this product are PCB Antenna for Bluetooth, no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi for Bluetooth.

12. Test setup photo

12.1. Photos of Radiated emission



12.2.Photos of Conducted Emission test



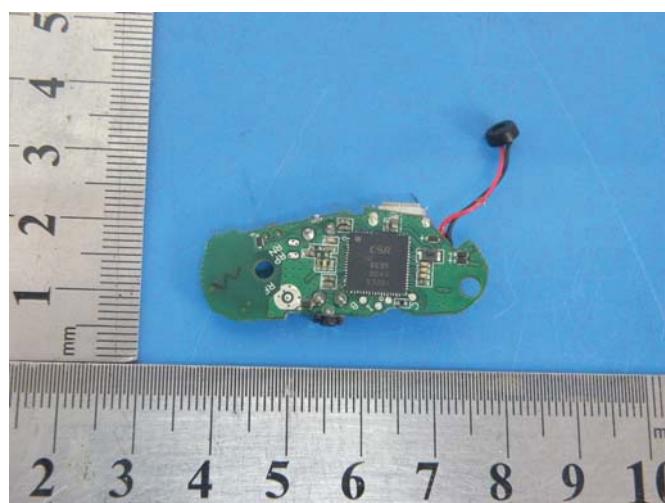
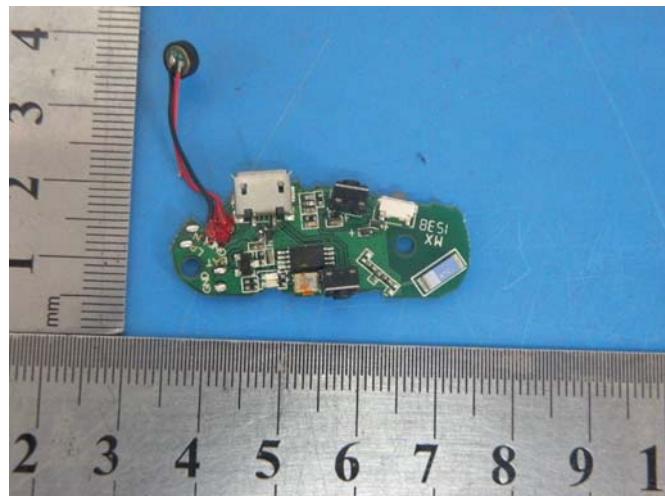
13. Photos of EUT













-----END OF THE REPORT-----