

Report Seal

Report No.: EED32R80155501

## **TEST REPORT**

Product : Wireless Headset with Dynamic LED Light

Trade mark : MINISO

Model/Type reference : CH66

Serial Number : N/A

Report Number : EED32R80155501

FCC ID : 2A2H6-CH66

Date of Issue : Mar. 14, 2025

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

#### Prepared for:

Shenzhen Bao Tianhua Technology Co., Ltd 301, Building Plant No.5 Anliang Road, Xi Keng Community, Longgang District, Shenzhen, Guangdong, China

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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SO SO	Aaron Ma	(41)	(cf1)	(61)

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### 2 Version



Version No.	Date	Description	
00	Mar. 14, 2025	Original	(3)
(			



















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### 3 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	PASS
Maximum Conducted Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	PASS
20dB Emission Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Carrier Frequency Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Number of Hopping Channels	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Time of Occupancy	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)	PASS
Band Edge Measurements	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS
Restricted bands around fundamental frequency	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS



















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### 4 General Information

#### 4.1 Client Information

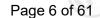
Applicant:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Applicant:	301, Building Plant No.5 Anliang Road, Xi Keng Community, Longgang District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Manufacturer:	301, Building Plant No.5 Anliang Road, Xi Keng Community, Longgang District, Shenzhen, Guangdong, China
Factory:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Factory:	301, Building Plant No.5 Anliang Road, Xi Keng Community, Longgang District, Shenzhen, Guangdong, China

### 4.2 General Description of EUT

The state of the s		and All Minns	
Product Name:	Wireless Headset with Dynamic LED Light		
Model No.:	CH66	(6)	
Trade Mark:	MINISO		
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location		
Operation Frequency:	2402MHz~2480MHz	II.	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	(0	
Modulation Type:	GFSK, π/4DQPSK		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Antenna Type:	PCB Antenna	(6,)	
Antenna Gain:	-0.58dBi		
D	Adapter: DC 5V/2A		
Power Supply:	Battery: DC 3.7V		
Test Voltage:	DC 5V		
Sample Received Date:	Feb. 21, 2025		
Sample tested Date:	Feb. 21, 2025 to Mar. 08, 2025		







Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz













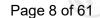


### **Test Configuration**

FLIT Tost Software Settings						
EUT Test Software Settings						
Software:	FCC_assist_1.0.2.2					
EUT Power Grade:	Default (Power level is built-in set paramet selected)	Default (Power level is built-in set parameters and cannot be changed and selected)				
Use test software to set the lo transmitting of the EUT.	owest frequency, the middle frequency and the	highest frequency keep				
Mode	Channel	Frequency(MHz)				
	CH0	2402				
DH1/DH3/DH5	CH39	2441				
	CH78	2480				
	CH0	2402				
2DH1/2DH3/2DH5	CH39	2441				
	CH78	2480				
	CH0	2402				
3DH1/3DH3/3DH5	CH39	2441				
	CH78	2480				







#### 4.4 **Test Environment**

	Operating Environment	:				
	Radiated Spurious Emi	ssions:				
	Temperature:	22~25.0 °C				
<u></u>	Humidity:	50~55 % RH		(1)		100
)	Atmospheric Pressure:	1010mbar		(6)		(6,)
	Conducted Emissions:					
	Temperature:	22~25.0 °C				
	Humidity:	50~55 % RH	705		100	
	Atmospheric Pressure:	1010mbar	(25)		(2)	
	RF Conducted:					
	Temperature:	22~25.0 °C				
	Humidity:	50~55 % RH		-0-		
N	Atmospheric Pressure:	1010mbar				

#### 4.5 **Description of Support Units**

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Asus	FL8700JP1065-	FCC&CE	СТІ
	· -	0D8GXYQ2X10	<b></b>	/*>

#### 4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164











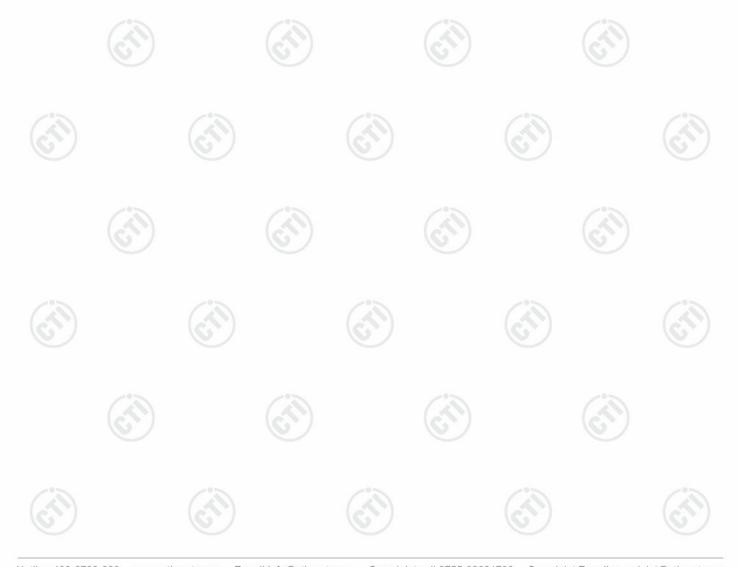






## 4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 <sup>-8</sup>
2	DE nower conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
	(80)	3.3dB (9kHz-30MHz)
2	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
3		4.5dB (1GHz-18GHz)
-05		3.4dB (18GHz-40GHz)
1	Conduction emission	3.5dB (9kHz to 150kHz)
4	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%





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### 4.8 Equipment List

RF test system								
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy) 12-104-2025			
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-05-2024				
Signal Generator	Keysight	N5182B	MY53051549	11-30-2024	11-29-2025			
DC Power	Keysight	E3642A	MY56376072	11-30-2024	11-29-2025			
Communication test	R&S	CMW500	169004	03-08-2024 03-03-2025	03-07-2025 03-02-2026			
RF control unit(power unit)	JS Tonscend	JS0806-2	22G8060592	07-22-2024	07-21-2025			
Wi-Fi 7GHz Band Extendder	JS Tonscend	TS-WF7U2	2206200002	05-31-2024	05-30-2025			
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024	11-29-2025			
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	05-29-2024	05-28-2025			
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	V3.3.20					
Spectrum Analyzer	R&S	FSV3044	101509	02-14-2025	02-13-2026			

	Conducted disturbance Test							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)			
Receiver	R&S	ESCI	100435	04-18-2024	04-17-2025			
Temperature/ Humidity Indicator	Defu	TH128		04-25-2024	04-24-2025			
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025			
Barometer	changchun	DYM3	1188		(2			
Test software	Fara	EZ-EMC	EMC-CON 3A1.1		(6)			



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Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12-05-2024	12-04-2025

			Serial	Cal. date	Cal. Due date			
Equipment	Manufacturer	Model No.	Number	(mm-dd-yyyy)	(mm-dd-yyyy)			
3M Chamber & Accessory  Equipment	TDK	SAC-3		05/22/2022	05/21/2025			
Receiver	R&S	ESCI7	100938- 003	09/07/2024	09/06/2025			
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025			
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025			
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025			
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024	12/04/2025			
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026			
Horn Antenna	Horn Antenna ETS-LINGREN  Preamplifier Agilent  Preamplifier CD  Test software Fara		Horn Antenna ETS-LINGREN BBHA 9		9120D- 1869	04/16/2024	04/15/2025	
Preamplifier			12-1	03/22/2024	03/21/2025			
Preamplifier			6041.6042	06/19/2024				
Test software			ware Fara EZ-EMC		EMEC- 3A1-Pre		<u></u>	
Cable line	Fulai(7M)	SF106	5219/6A		<u></u>			
Cable line	Fulai(6M)	SF106	5220/6A					
Cable line	Fulai(3M)	SF106	5216/6A	(42)	(6			
Cable line	Fulai(3M)	SF106	5217/6A					











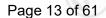


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Equipment	Manufacturer	3M full-anechoid	Chamber			
Equipment	Manufacturer	Model No				
Į.		illodol Ito.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Fully Anechoic Chamber	TDK	FAC-3		01-09-2024	01-08-2027	
Receiver	Keysight	N9038A	MY57290136	01-04-2025	01-03-2026	
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-14-2025	01-13-2026	
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-14-2025	01-13-2026	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2024	04-27-2025	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-16-2024	04-15-2025	
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025	
Preamplifier	EMCI	EMC001330	980563	03-08-2024 03-03-2025	03-07-2025 03-02-2026	
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025 12-04-2025 01-03-2026 04-06-2025	
Preamplifier	Tonscend	EMC051845SE	980380	12-05-2024		
Communication test set	R&S	CMW500	102898	01-04-2025		
Temperature/	biaozhi	GM1360	EE1186631	04-07-2024		
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	- 60		
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	0	<u></u>	
Cable line	Times	SFT205-NMSM-2.50M	394812-0002			
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		(3	
Cable line	Times	SFT205-NMSM-2.50M	393495-0001			
Cable line	Times	EMC104-NMNM-1000	SN160710			
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(6	(1)	
Cable line	Times	SFT205-NMNM-1.50M	381964-0001			
Cable line	Times	SFT205-NMSM-7.00M	394815-0001			
Cable line	Times	HF160-KMKM-3.00M	393493-0001	((1))-	- (3	

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com





#### 5 Test results and Measurement Data

#### 5.1 Antenna Requirement

**Standard requirement:** 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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.

**EUT Antenna:** Please see Internal photos

The antenna is PCB antenna. The best case gain of the antenna is -0.58dBi.





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<u> </u>	AC Power Line Cor		4/1/2						
	Test Requirement:	47 CFR Part 15C Section 15.207							
	Test Method:	ANSI C63.10: 2013							
	Test Frequency Range:	150kHz to 30MHz							
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sv	veep time=auto	/12					
	Limit:	Frequency range (MHz)	Limit (dl	BuV)					
		r requerity range (iiii iz)	Quasi-peak	Average					
		0.15-0.5	66 to 56*	56 to 46*					
		0.5-5	56	46					
		5-30	60	50					
		* Decreases with the logarithm	of the frequency.	(0,)					
		Test Receiver  LISN2 AC Mains  Ground Reference Plane							
Test Procedure:		<ol> <li>The mains terminal disturbance voltage test was conducted in a shroom.</li> <li>The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>The tabletop EUT was placed upon a non-metallic table 0.8m above ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane,</li> <li>The test was performed with a vertical ground reference plane. The rof the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units</li> </ol>							

the EUT and associated equipment was at least 0.8 m from the LISN 2.

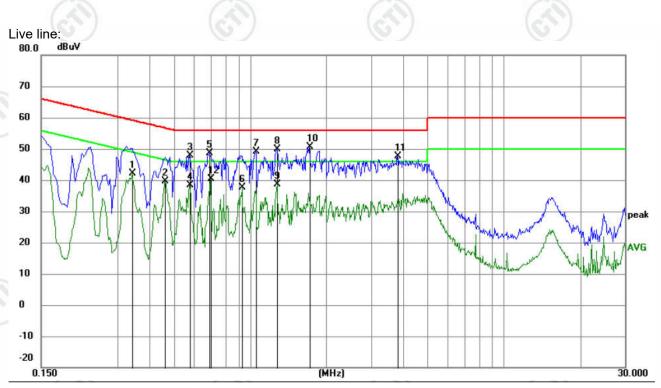
5) In order to find the maximum emission, the relative positions of



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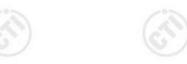
	equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case.  Only the worst case is recorded in the report.
Test Results:	Pass

#### **Measurement Data**



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3435	31.95	10.11	42.06	49.12	-7.06	AVG	
2		0.4605	29.48	10.08	39.56	46.68	-7.12	AVG	
3		0.5775	37.70	10.10	47.80	56.00	-8.20	QP	
4		0.5775	28.28	10.10	38.38	46.00	-7.62	AVG	
5		0.6900	38.55	10.13	48.68	56.00	-7.32	QP	
6		0.9330	27.48	10.17	37.65	46.00	-8.35	AVG	
7		1.0500	39.04	10.18	49.22	56.00	-6.78	QP	
8		1.2705	39.71	10.18	49.89	56.00	-6.11	QP	
9		1.2795	28.35	10.18	38.53	46.00	-7.47	AVG	
10	*	1.7115	40.48	10.17	50.65	56.00	-5.35	QP	
11		3.8040	37.46	10.10	47.56	56.00	-8.44	QP	
12		0.6990	30.24	10.13	40.37	46.00	-5.63	AVG	









#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.































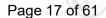


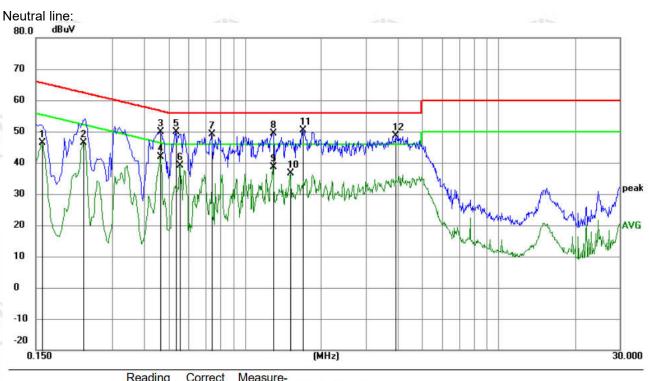












No.	Mk.	Freq.	Level	Factor	ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	36.00	10.27	46.27	55.52	-9.25	AVG	
2		0.2310	36.21	10.19	46.40	52.41	-6.01	AVG	
3		0.4650	39.72	10.08	49.80	56.60	-6.80	QP	
4	*	0.4650	31.80	10.08	41.88	46.60	-4.72	AVG	
5		0.5325	39.83	10.09	49.92	56.00	-6.08	QP	
6		0.5550	28.94	10.09	39.03	46.00	-6.97	AVG	
7		0.7395	39.04	10.15	49.19	56.00	-6.81	QP	
8		1.2930	39.16	10.18	49.34	56.00	-6.66	QP	
9		1.2930	28.55	10.18	38.73	46.00	-7.27	AVG	
10		1.5180	26.56	10.17	36.73	46.00	-9.27	AVG	
11		1.6935	40.32	10.17	50.49	56.00	-5.51	QP	
12		3.9390	38.49	10.10	48.59	56.00	-7.41	QP	

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.













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### 5.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)							
Test Method:	ANSI C63.10:2013							
Test Setup:	RF test Control Control Power Supply Power Table  RF test System Instrument  Remark: Offset=Cable loss+ attenuation factor.							
Test Procedure:	Use the following spectrum analyzer settings:  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 Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.							
Limit:	21dBm							
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type							
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.							
Test Results:	Refer to Appendix A							





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### 5.4 20dB Emission Bandwidth

1 - 44 - 41	
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	RF test System Instrument  Remark: Offset=Cable loss+ attenuation factor.  1. The RF output of EUT was connected to the spectrum analyzer by RF
	cable and attenuator. The path loss was compensated to the results for each measurement.  2. Set to the maximum power setting and enable the EUT transmit continuously.  3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.  Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW ≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold.  4. Measure and record the results in the test report.
Limit:	NA
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Refer to Appendix A





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### 5.5 Carrier Frequency Separation

1 100 10 1	7 (0.7)
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Control Control Control Power Powe
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings:         Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto;         Detector function = peak; Trace = max hold.         Use the marker-delta function to determine the separation between the peaks of the adjacent channels.         Record the value in report.     </li> </ol>
Limit:	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.
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Refer to Appendix A

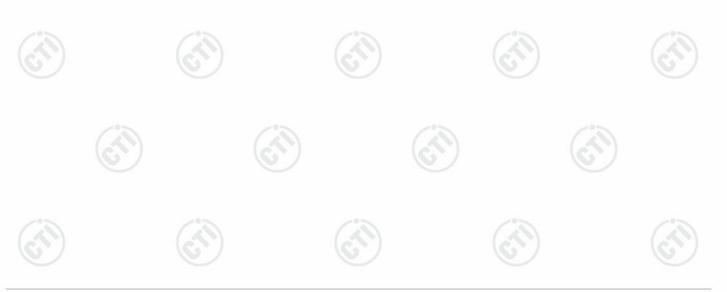






# 5.6 Number of Hopping Channel

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)						
Test Method:	ANSI C63.10:2013						
Test Setup:	Control Computer Power Pool Power Power Pool Power Power Pool Power Powe						
	Remark: Offset=Cable loss+ attenuation factor.						
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep= auto; Detector function = peak; Trace = max hold.</li> <li>The number of hopping frequency used is defined as the number of total channel.</li> <li>Record the measurement data in report.</li> </ol>						
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.						
Test Mode:	Hopping transmitting with all kind of modulation						
Test Results:	Refer to Appendix A						





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### 5.7 Time of Occupancy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Control Control Power porte)  Power port Supply  Table  RF test System System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Enable the EUT hopping function.</li> <li>Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.</li> <li>Measure and record the results in the test report.</li> </ol>
Limit:	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.
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Test Results:	Refer to Appendix A

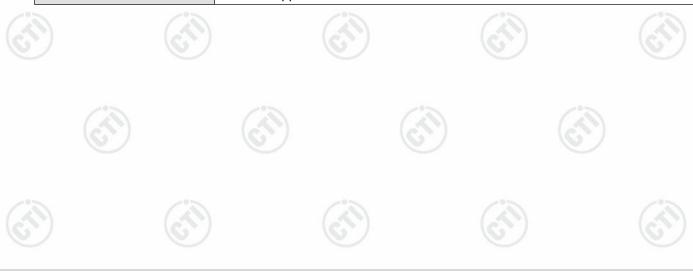






### 5.8 Band edge Measurements

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Computer Power Power Poot Supply  Table  RF test System System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	<ol> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.</li> <li>Enable hopping function of the EUT and then repeat step 2 and 3.</li> <li>Measure and record the results in the test report.</li> </ol>
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Refer to Appendix A





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### 5.9 Conducted Spurious Emissions

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	Test Requirement:	47 CFR Part 15C Section 15.247 (d)
	Test Method:	ANSI C63.10:2013
	Test Setup:	Control Computer Power Poort Attenuator Instrument  Table  RF test System System Instrument
		Remark: Offset=Cable loss+ attenuation factor.
	Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW.</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
	Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
	Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
	Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
	Test Results:	Refer to Appendix A
_		







#### **5.10** Pseudorandom Frequency Hopping Sequence

#### Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1), (h) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

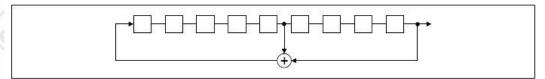
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

#### Compliance for section 15.247(a)(1)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage

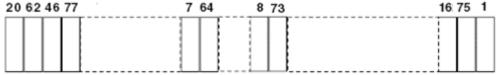
outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- · Number of shift register stages: 9
- Length of pseudo-random sequence: 29 -1 = 511 bits
- · Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

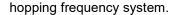
According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

#### Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom



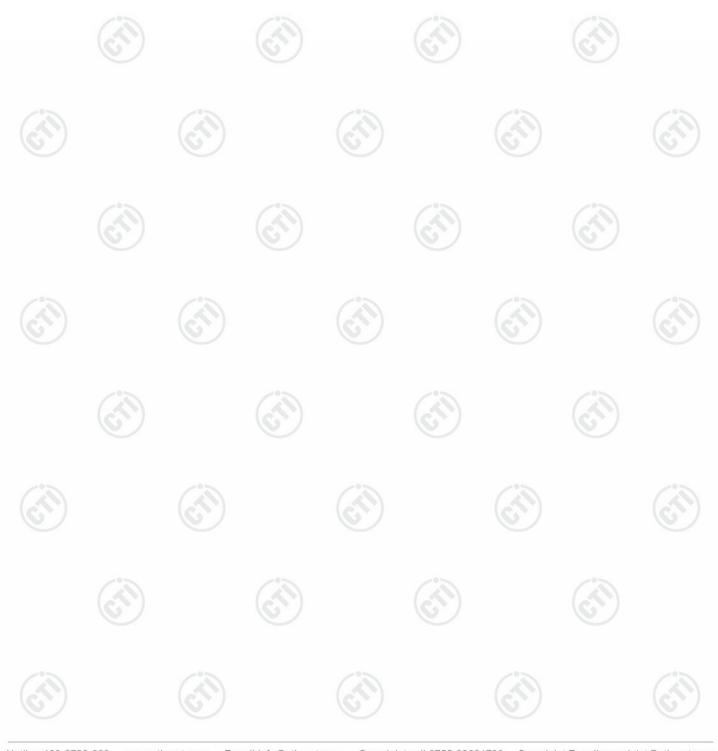




#### Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

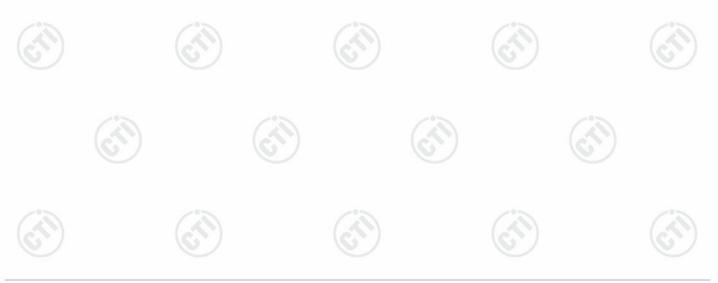




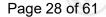


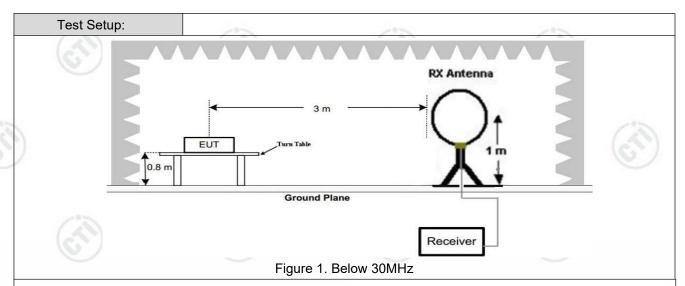
### **5.11** Radiated Spurious Emission & Restricted bands

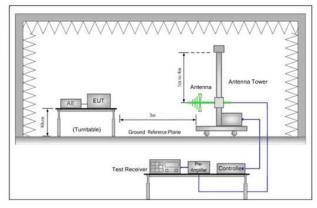
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205	(0,)	)
Test Method:	ANSI C63.10: 2013					
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber)	
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz		Peak	100 kH	z 300kHz	Peak
	Above 4011		Peak	1MHz	3MHz	Peak
	Above 1GHz		Peak	1MHz	10kHz	Average
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-/3	30
	1.705MHz-30MHz	MHz 30		-	(6)	30
	30MHz-88MHz		100	40.0	Quasi-peak	3
	88MHz-216MHz		150	43.5	Quasi-peak	3
	216MHz-960MHz		200	46.0	Quasi-peak	3
	960MHz-1GHz	. )	500	54.0	Quasi-peak	3
	Above 1GHz		500	54.0	Average	3
	Note: 15.35(b), Unless emissions is 20dE applicable to the peak emission lev	3 ab equi	ove the maxin	num permitest. This p	tted average	emission limit











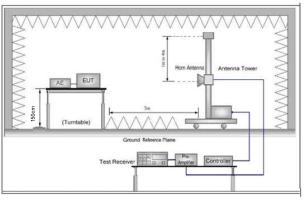


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

#### Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
  - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the



Test Results:	Pass
	Pretest the EUT at Transmitting mode, For below 1GHz part, through pr scan, the worst case is the lowest channel.  Only the worst case is recorded in the report.
Final Test Mod	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case.
Exploratory Te	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Exploratory Te	degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10d margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.  g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz)  h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.  i. Repeat above procedures until all frequencies measured was complete.
	measurement.  d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360



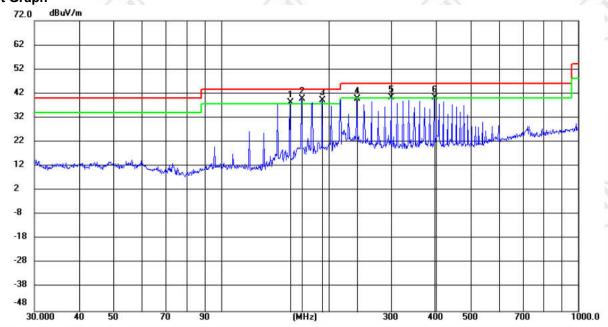


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#### Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of DH5 for GFSK was recorded in the report.

#### Horizontal:



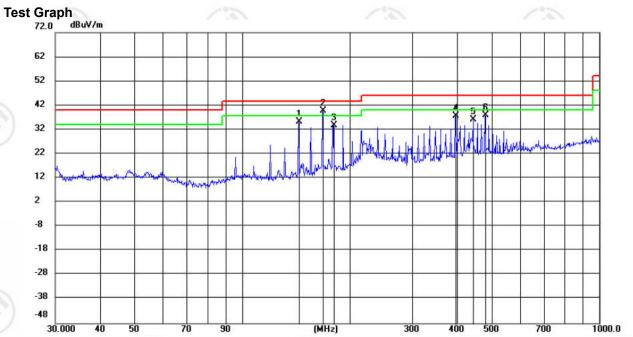
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	Į.	156.0194	28.68	9.63	38.31	43.50	-5.19	QP	199	351	
2	*	168.0302	28.65	11.00	39.65	43.50	-3.85	QP	199	7	
3	Į.	192.0141	27.03	12.03	39.06	43.50	-4.44	QP	199	7	
4		240.0294	25.83	13.89	39.72	46.00	-6.28	QP	199	7	
5	Į.	300.0514	24.26	16.15	40.41	46.00	-5.59	QP	100	21	
6	Į.	396.0331	22.46	17.96	40.42	46.00	-5.58	QP	100	32	





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#### Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		144.0062	26.14	9.16	35.30	43.50	-8.20	QP	100	102	
2	*	168.0302	28.72	11.00	39.72	43.50	-3.78	QP	200	250	
3		180.0165	22.59	11.30	33.89	43.50	-9.61	QP	200	271	
4		396.0332	19.67	17.96	37.63	46.00	-8.37	QP	100	60	
5		444.0722	17.26	18.83	36.09	46.00	-9.91	QP	100	81	
6		480.0224	18.58	19.48	38.06	46.00	-7.94	QP	100	81	







### Radiated Spurious Emission above 1GHz:

Mode	):		GFSK Transmit	ting		Channel:		2402 MHz	
NO	NO Freq. [dB]		Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1313.0875	9.73	37.21	46.94	74.00	27.06	Pass	Н	PK
2	1810.1873	14.43	36.90	51.33	74.00	22.67	Pass	Н	PK
3	3700.7467	-12.48	52.76	40.28	74.00	33.72	Pass	Н	PK
4	4800.62	-10.46	55.97	45.51	74.00	28.49	Pass	Н	PK
5	7183.6789	-5.11	47.36	42.25	74.00	31.75	Pass	Н	PK
6	9601.8401	2.65	49.61	52.26	74.00	21.74	Pass	Н	PK
7	1154.9437	10.24	37.76	48.00	74.00	26.00	Pass	V	PK
8	1474.1649	10.52	37.20	47.72	74.00	26.28	Pass	V	PK
9	3346.4731	-12.61	53.54	40.93	74.00	33.07	Pass	V	PK
10	4801.2701	-10.46	55.60	45.14	74.00	28.86	Pass	V	PK
11	7103.7236	-5.08	47.23	42.15	74.00	31.85	Pass	V	PK
12	9601.8401	2.65	49.02	51.67	74.00	22.33	Pass	V	PK

Mode	):		GFSK Transmit	tting		Channel:		2441 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1367.7579	10.30	37.54	47.84	74.00	26.16	Pass	Н	PK
2	1684.8457	12.65	36.31	48.96	74.00	25.04	Pass	Н	PK
3	3371.8248	-12.95	53.23	40.28	74.00	33.72	Pass	Н	PK
4	4885.1257	-9.73	50.11	40.38	74.00	33.62	Pass	Н	PK
5	7352.6902	-4.27	46.42	42.15	74.00	31.85	Pass	Н	PK
6	9797.5032	3.32	44.44	47.76	74.00	26.24	Pass	Н	PK
7	1368.8246	10.31	36.74	47.05	74.00	26.95	Pass	V	PK
8	1764.3176	13.37	36.65	50.02	74.00	23.98	Pass	V	PK
9	3421.2281	-13.11	53.56	40.45	74.00	33.55	Pass	V	PK
10	4686.8625	-9.36	50.19	40.83	74.00	33.17	Pass	V	PK
11	7246.7331	-4.34	46.68	42.34	74.00	31.66	Pass	V	PK
12	9804.6536	3.33	43.15	46.48	74.00	27.52	Pass	V	PK

















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Mode	):		GFSK Transmit	ting		Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1156.0104	10.22	37.89	48.11	74.00	25.89	Pass	Н	PK
2	1592.4395	11.54	36.21	47.75	74.00	26.25	Pass	Н	PK
3	3566.8378	-13.37	52.39	39.02	74.00	34.98	Pass	Н	PK
4	4957.2805	-13.27	57.30	44.03	74.00	29.97	Pass	Н	PK
5	6705.8971	-5.43	46.33	40.90	74.00	33.10	Pass	Н	PK
6	9803.3536	3.35	43.84	47.19	74.00	26.81	Pass	Н	PK
7	1294.1529	9.47	37.37	46.84	74.00	27.16	Pass	V	PK
8	1556.8371	11.05	37.57	48.62	74.00	25.38	Pass	V	PK
9	3569.438	-13.43	53.21	39.78	74.00	34.22	Pass	V	PK
10	4957.2805	-13.27	57.06	43.79	74.00	30.21	Pass	V	PK
11	7056.9205	-5.24	46.43	41.19	74.00	32.81	Pass	V	PK
12	10060.770	3.27	42.40	45.67	74.00	28.33	Pass	V	PK

Mode	):		π/4DQPSK Tra	π/4DQPSK Transmitting			Channel:		2402 MHz	
NO	Freq. [MHz]	Facto [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1139.7426	10.07	37.40	47.47	74.00	26.53	Pass	Н	PK	
2	1565.7711	11.17	36.56	47.73	74.00	26.27	Pass	Н	PK	
3	3420.578	-13.12	54.68	41.56	74.00	32.44	Pass	Н	PK	
4	4801.2701	-10.46	55.43	44.97	74.00	29.03	Pass	Н	PK	
5	7598.4066	-3.33	46.97	43.64	74.00	30.36	Pass	Н	PK	
6	9601.8401	2.65	49.32	51.97	74.00	22.03	Pass	Н	PK	
7	1145.8764	10.28	37.73	48.01	74.00	25.99	Pass	V	PK	
8	1472.9649	10.53	36.74	47.27	74.00	26.73	Pass	V	PK	
9	3356.8738	-12.68	3 53.25	40.57	74.00	33.43	Pass	V	PK	
10	4801.2701	-10.46	55.99	45.53	74.00	28.47	Pass	V	PK	
11	7587.3558	-3.64	46.51	42.87	74.00	31.13	Pass	V	PK	
12	9601.8401	2.65	48.37	51.02	74.00	22.98	Pass	V	PK	



























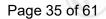
Mode	):		π/4DQPSK T	π/4DQPSK Transmitting			Channel:		2441 MHz	
NO	Freq. [MHz]	Facto [dB]	r Reading [dBμV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1246.8165	8.58	40.96	49.54	74.00	24.46	Pass	Н	PK	
2	1443.6296	10.62	37.50	48.12	74.00	25.88	Pass	Н	PK	
3	3789.8027	-12.15	5 51.65	39.50	74.00	34.50	Pass	Н	PK	
4	6096.1564	-5.89	47.36	41.47	74.00	32.53	Pass	Н	PK	
5	7771.3181	-3.34	47.36	44.02	74.00	29.98	Pass	Н	PK	
6	11241.249	5.62	44.49	50.11	74.00	23.89	Pass	Н	PK	
7	1081.4721	9.10	39.22	48.32	74.00	25.68	Pass	V	PK	
8	1442.6962	10.62	37.47	48.09	74.00	25.91	Pass	V	PK	
9	3432.9289	-12.91	1 53.10	40.19	74.00	33.81	Pass	V	PK	
10	5387.6092	-8.37	48.59	40.22	74.00	33.78	Pass	V	PK	
11	7747.2665	-3.20	46.27	43.07	74.00	30.93	Pass	V	PK	
12	11229.548	5.29	43.96	49.25	74.00	24.75	Pass	V	PK	

Mode	:		π/4DQPSK Transmitting			Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1148.0099	10.35	37.73	48.08	74.00	25.92	Pass	Н	PK
2	1407.0938	10.63	36.66	47.29	74.00	26.71	Pass	Н	PK
3	3739.0993	-13.18	52.65	39.47	74.00	34.53	Pass	Н	PK
4	4957.2805	-13.27	56.90	43.63	74.00	30.37	Pass	Н	PK
5	6183.9123	-6.65	47.44	40.79	74.00	33.21	Pass	Н	PK
6	11251.000	5.81	43.92	49.73	74.00	24.27	Pass	Н	PK
7	1248.8166	8.57	40.75	49.32	74.00	24.68	Pass	V	PK
8	1533.9023	10.78	37.08	47.86	74.00	26.14	Pass	V	PK
9	3372.4748	-12.96	54.15	41.19	74.00	32.81	Pass	V	PK
10	4957.2805	-13.27	56.46	43.19	74.00	30.81	Pass	V	PK
11	7851.9235	-2.62	46.37	43.75	74.00	30.25	Pass	V	PK
12	11721.631	4.16	45.74	49.90	74.00	24.10	Pass	V	PK

#### Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



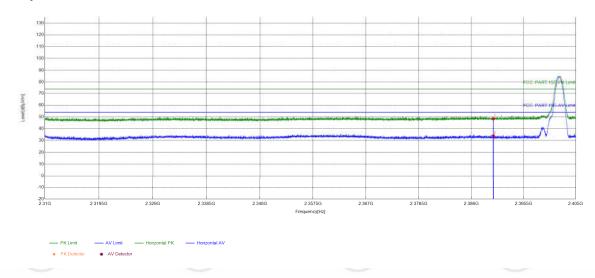


### Restricted bands:



#### Test plot as follows:

EUT_Name		Test_Model	
Test_Mode	GFSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/02/25
Remark	A (c	(i)	



	Suspecte	d List								
200	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	15.31	33.19	48.50	74.00	25.50	PASS	Horizontal	PK
	2	2390	15.31	18.53	33.84	54.00	20.16	PASS	Horizontal	AV







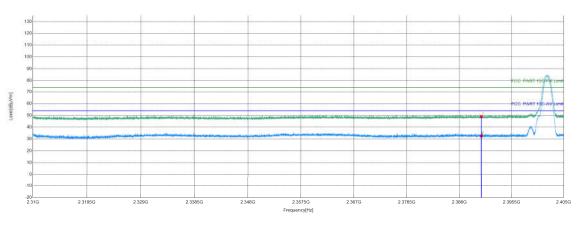






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( 23)		(4)	/ 4/1/
EUT_Name		Test_Model	
Test_Mode	GFSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/02/25
Remark	-00	-05	



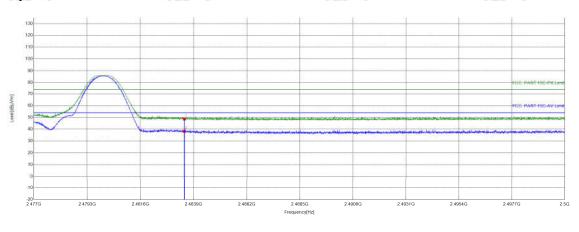
-	Suspecte	d List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390	15.31	33.68	48.99	74.00	25.01	PASS	Vertical	PK
ſ	2	2390	15.31	17.28	32.59	54.00	21.41	PASS	Vertical	AV





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EUT_Name		Test_Model	(6,1)
Test_Mode	GFSK Transmitting	Test_Frequency	2480Mhz
Tset_Engineer	chenjun	Test_Date	2025/02/25
Remark	-07	-05	-0



)ete	W D	/ Detector

Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	33.47	48.63	74.00	25.37	PASS	Horizontal	PK
2	2483.5	15.16	23.00	38.16	54.00	15.84	PASS	Horizontal	AV



















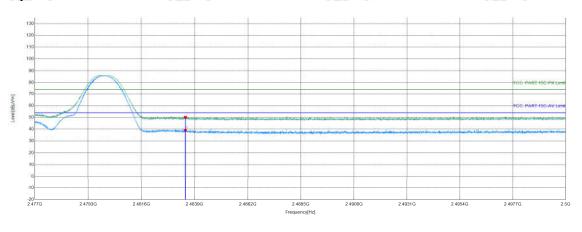




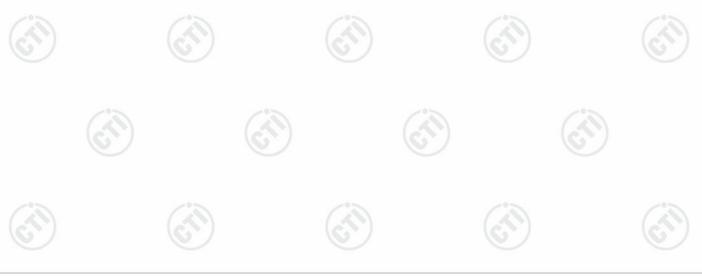


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EUT_Name		Test_Model	
Test_Mode	GFSK Transmitting	Test_Frequency	2480Mhz
Tset_Engineer	chenjun	Test_Date	2025/02/25
Remark	-0-		

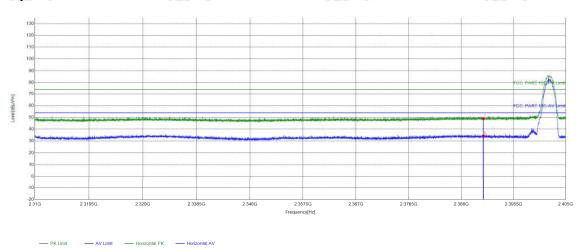


Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	35.03	50.19	74.00	23.81	PASS	Vertical	PK
2	2483.5	15.16	23.90	39.06	54.00	14.94	PASS	Vertical	AV

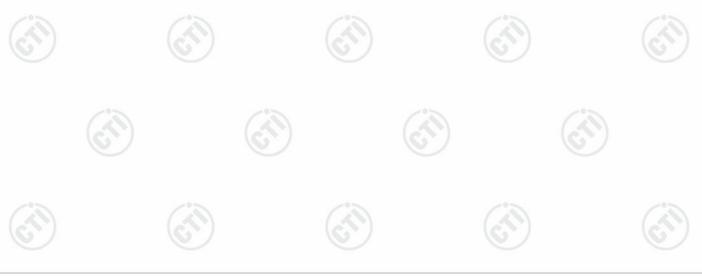




EUT_Name		Test_Model	(6,1)
Test_Mode	π/4DQPSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/02/25
Remark			



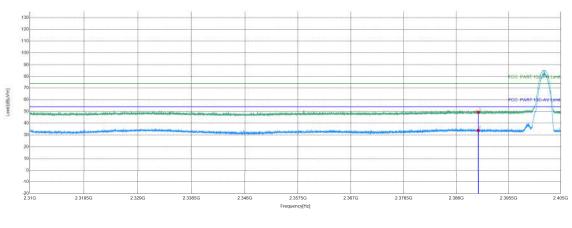
	★ PK Detector	* AV Detector							
Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	33.72	49.03	74.00	24.97	PASS	Horizontal	PK
2	2390	15.31	18.88	34.19	54.00	19.81	PASS	Horizontal	AV



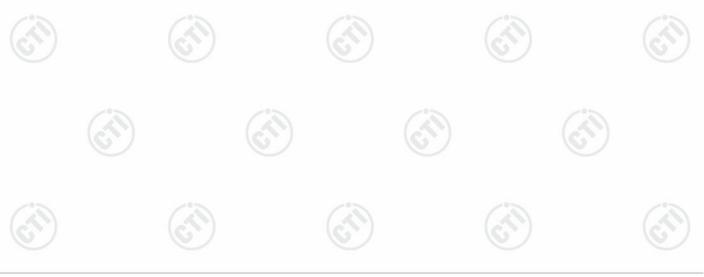


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EUT_Name	(0,	Test_Model	
Test_Mode	π/4DQPSK Transmitting	Test_Frequency	2402Mhz
Tset_Engineer	chenjun	Test_Date	2025/02/25
Remark			



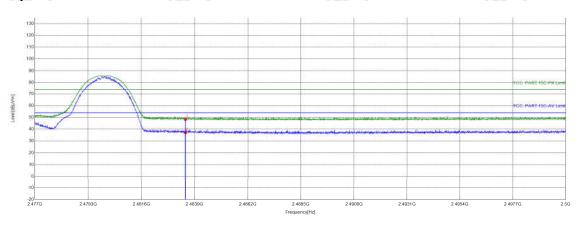
Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390	15.31	34.08	49.39	74.00	24.61	PASS	Vertical	PK
2	2390	15.31	18.52	33.83	54.00	20.17	PASS	Vertical	AV





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( 23)	(43)	(4)	
EUT_Name	(6.)	Test_Model	(6,1)
Test_Mode	π/4DQPSK Transmitting	Test_Frequency	2480Mhz
Tset_Engineer	chenjun	Test_Date	2025/02/25
Remark	-02		-0



Suspecte	d List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	33.26	48.42	74.00	25.58	PASS	Horizontal	PK
2	2483.5	15.16	22.06	37.22	54.00	16.78	PASS	Horizontal	AV

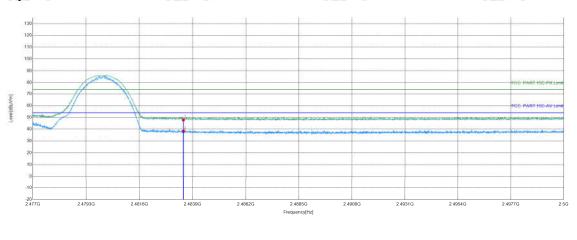




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EUT_Name	(6,0)	Test_Model	
Test_Mode	π/4DQPSK Transmitting	Test_Frequency	2480Mhz
Tset_Engineer	chenjun	Test_Date	2025/02/25
Remark	-05		-0

#### **Test Graph**



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5	15.16	32.78	47.94	74.00	26.06	PASS	Vertical	PK
2	2483.5	15.16	23.04	38.20	54.00	15.80	PASS	Vertical	AV

#### Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

















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# 6 Appendix A







Refer to Appendix: Bluetooth Classic of EED32R80155501





















































































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#### **Statement**

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full.

