



# RF Test Report

## For

**Applicant Name:** Shenzhen DOOGEE Hengtong Technology CO.,LTD  
**Address:** B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China  
**EUT Name:** Tablet  
**Brand Name:** DOOGEE  
**Model Number:** Tab E3 Max  
**Series Model Number:** Tab E3 Max VIP Edition, Tab E3 Pro, Tab E3 Pro VIP Edition, Tab E3 Pro+, Tab E3 Pro+ VIP Edition, Tab E3 Pro Max, Tab E3 Pro Max VIP Edition, Tab E3 Ultra, Tab E3 Power  
**FCC ID:** 2AX4YTABE3MAX

## Issued By

**Company name:** BTF Testing Lab (Shenzhen) Co., Ltd.  
**Address:** 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China  
**Report number:** BTF250514R00701  
**Test standards:** FCC CFR Title 47 Part 15 Subpart C (§15.247)  
**Test conclusion:** Pass  
**Date of sample receipt:** 2025-03-31  
**Test date:** 2025-04-01 to 2025-05-22  
**Date of issue:** 2025-05-23  
**Test by:** Sean He  
**Prepared by:** Chris Liu

Sean He / Tester  
Chris Liu / Project engineer \*  
Approved by: BTF Testing Lab (Shenzhen) Co., Ltd.  
\* Ryan.CJ /EMC manager

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Test Report Number: BTF250514R00701

Revision History		
Version	Issue Date	Revisions Content
R_V0	2025-05-23	Original

*Note: Once the revision has been made, then previous versions reports are invalid.*

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## 1 Introduction

### 1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

### 1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**

BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 518915.

- **CNAS - Registration No.: CNAS L17568**

BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.

- **A2LA - Registration No.: 6660.01**

BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

### 1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2 Product Information

### 2.1 Application Information

Company Name:	Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China

### 2.2 Manufacturer Information

Company Name:	Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China

### 2.3 Factory Information

Company Name:	Shenzhen DOOGEE Hengtong Technology CO.,LTD
Address:	B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China

### 2.4 General Description of Equipment under Test (EUT)

EUT name	Tablet
Under test model name	Tab E3 Max
Series model name	Tab E3 Max VIP Edition, Tab E3 Pro, Tab E3 Pro VIP Edition, Tab E3 Pro+, Tab E3 Pro+ VIP Edition, Tab E3 Pro Max, Tab E3 Pro Max VIP Edition, Tab E3 Ultra, Tab E3 Power
Description of model name differentiation	There is no difference except the name of the model
Hardware Version	M100TCER100-TC67DG
Software Version	DOOGEE-Tab E3 Max-EEA-Android15.0
Rating:	DC 3.87V from battery or DC 9V from Fast Charger

### 2.5 Technical Information

Operation frequency:	2402MHz ~ 2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation technology:	GFSK, π/4 DQPSK, 8DPSK
Data rate:	1/2/3 Mbits/s
Max. Conducted Peak Power Power:	12.27dBm
Antenna type:	PIFA Antenna
Antenna gain:	2.23dBi (declare by Applicant)
Antenna transmit mode:	SISO (1TX, 1RX)
Fast Charger	Manufacturer: Shenzhen Huajin Electronics Co.,LTD Model: HJ-PD18W-US Input: AC100-240V~ 50/60Hz 0.6A Output: 5.0V=3.0A 15.0W OR 9.0V=2.0A 18.0W OR 12.0V=1.5A 18.0W MAX

**Channel list:**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
...	...	...	...	...	...	...	...
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
...	...	...	...	...	...	...	...
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz	-	-

Remark: Channel 0, 39 & 78 have been tested for GFSK,  $\pi/4$ -DQPSK, 8DPSK modulation mode.

### 3 Summary of Test Results

#### 3.1 Test Standards

Identity	Document Title
FCC CFR Title 47 Part 15 Subpart C (§15.247)	Intentional Radiators - Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of The FCC Rules

#### 3.2 Uncertainty of Test

Measurement	Value
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 1.5\text{ dB}$
Power Spectral Density, conducted	$\pm 3.0\text{ dB}$
Unwanted Emissions, conducted	$\pm 3.0\text{ dB}$
Supply voltages	$\pm 3\%$
Time	$\pm 5\%$
Conducted Emission for LISN (9kHz ~ 150kHz)	$\pm 2.97\text{ dB}$
Conducted Emission for LISN (150kHz ~ 30MHz)	$\pm 2.45\text{ dB}$
Radiated Emission (30MHz ~ 1000MHz)	$\pm 4.80\text{ dB}$
Radiated Emission (1GHz ~ 18GHz)	$\pm 4.82\text{ dB}$

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

#### 3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Occupied Bandwidth	47 CFR Part 15.247	47 CFR 15.215(c)	Pass
Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(1)	Pass
Channel Separation	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass



Number of Hopping Frequencies	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
Emissions in restricted frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d)	Pass

## 4 Test Configuration

### 4.1 Test Equipment List

Radiated test method					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI7	101032	2024/10/25	2025/10/24
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2024/10/25	2025/10/24
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2024/10/28	2025/10/27
Preamplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9744	00246	2024/09/24	2025/09/23
Horn Antenna (1GHz ~ 18GHz)	Schwarzbeck	BBHA9120D	2597	2024/10/30	2025/10/29
Horn Antenna (15GHz ~ 40GHz)	SCHWARZBECK	BBHA9170	1157	2024/10/24	2025/10/23
Preamplifier (1GHz ~ 40GHz)	TST Pass	LNA10180G45	246	2024/09/24	2025/09/23
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+		

Conducted Emission Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2024/10/25	2025/10/24
V-LISN	Schwarzbeck	NSLK 8127	01073	2024/10/25	2025/10/24
Coaxial Switcher	Schwarzbeck	CX210	CX210	2024/10/25	2025/10/24
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	2024/10/25	2025/10/24
Test Software	Frad	EZ_EMC	Version: EMC-CON 3A1.1+		

Conducted test method					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	Keysight	N9020A	MY50410020	2024/10/25	2025/10/24
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2024/10/25	2025/10/24
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2024/10/25	2025/10/24
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2024/10/25	2025/10/24
Temperature Humidity Chamber	ZZCKONG	ZZ-K02A	20210928007	2024/10/25	2025/10/24
DC Power Supply	Tongmen	etm-6050c	20211026123	2024/10/25	2025/10/24
RF Control Unit	Techy	TR1029-1	/	2024/10/25	2025/10/24
RF Sensor Unit	Techy	TR1029-2	/	2024/10/25	2025/10/24
Test Software	TST Pass	/	Version: 2.0		

## 4.2 Test Auxiliary Equipment

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Fast Charger	Shenzhen Huajin Electronics Co.,LTD	HJ-PD18W-US	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A

## 4.3 Test Modes

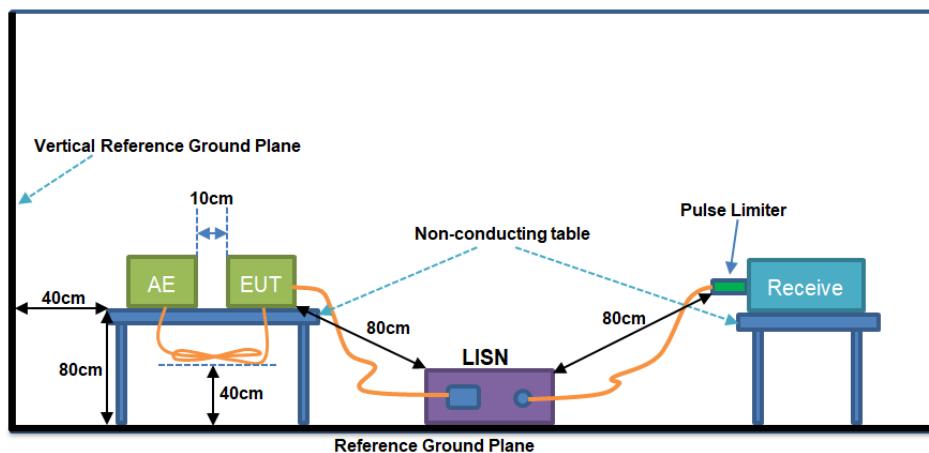
No.	Test Modes	Description
TM1	TX-GFSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	TX-Pi/4DQPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with Pi/4DQPSK modulation.
TM3	TX-8DPSK (Non-Hopping)	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation.,
TM5	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with Pi/4DQPSK modulation.
TM6	TX-8DPSK (Hopping)	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

## 4.4 Test software

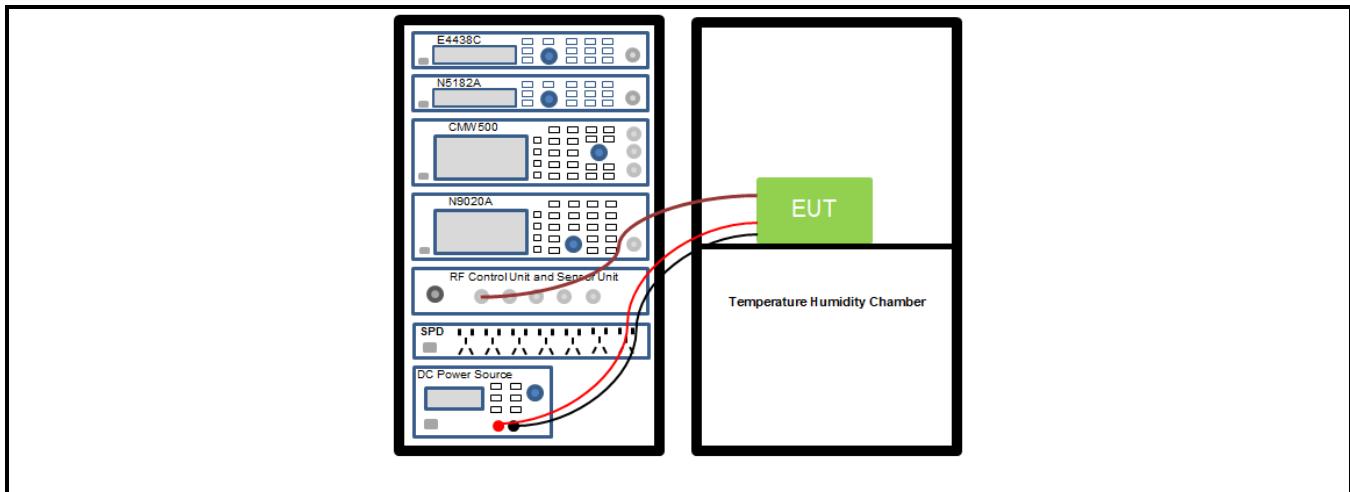
Test software:	Engineering mode	Version:	DOOGEE-Tab E3 Max-EEA-Android15.0
Power Class:	Default		

## 4.5 Test Setup Block

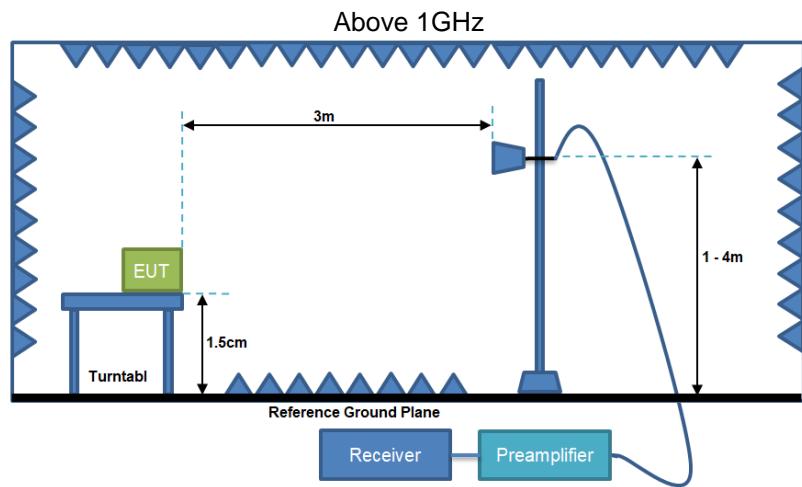
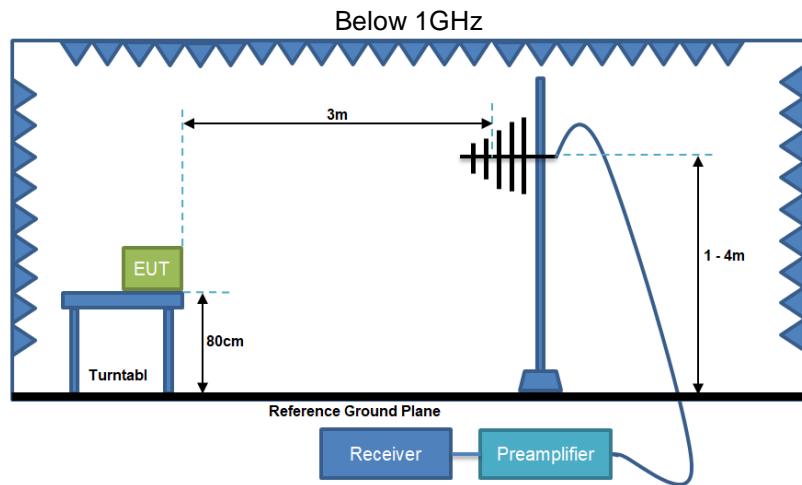
### 1) Conducted emission measurement:



### 2) Conducted test method:



### 3) Radiated test method:

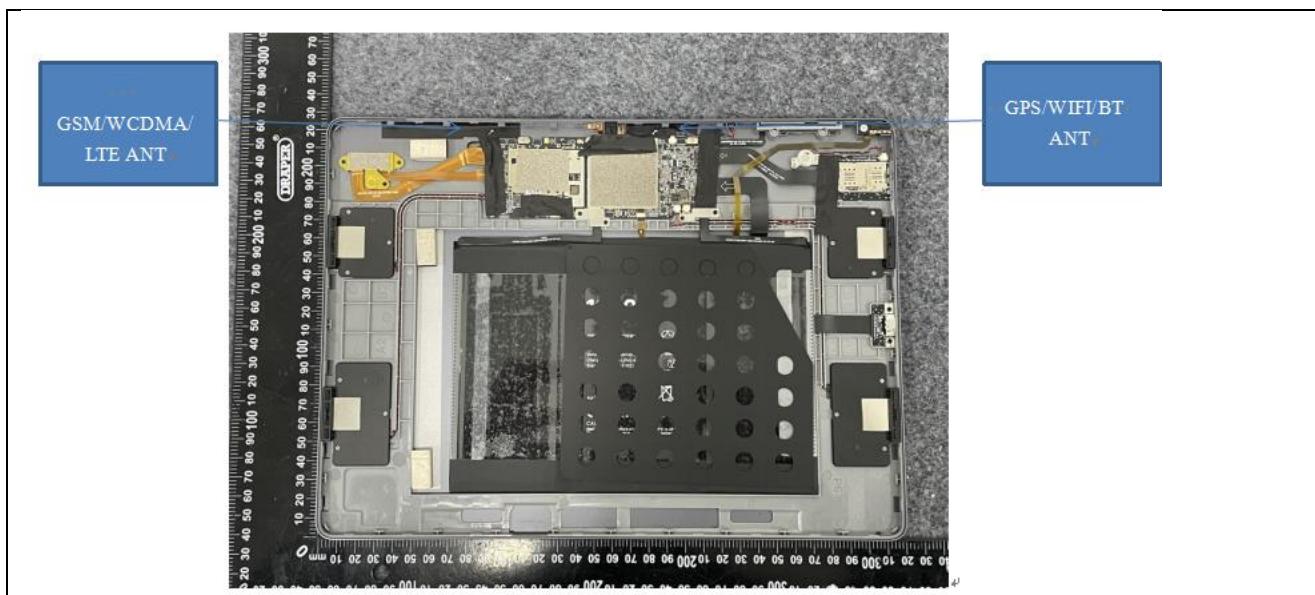


## 5 Evaluation Results (Evaluation)

### 5.1 Antenna requirement

Test 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 shall be considered sufficient to comply with the provisions of this section.
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#### 5.1.1 Conclusion:



## 6 Radio Spectrum Matter Test Results (RF)

### 6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).		
Test Method:	Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	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.

#### 6.1.1 E.U.T. Operation:

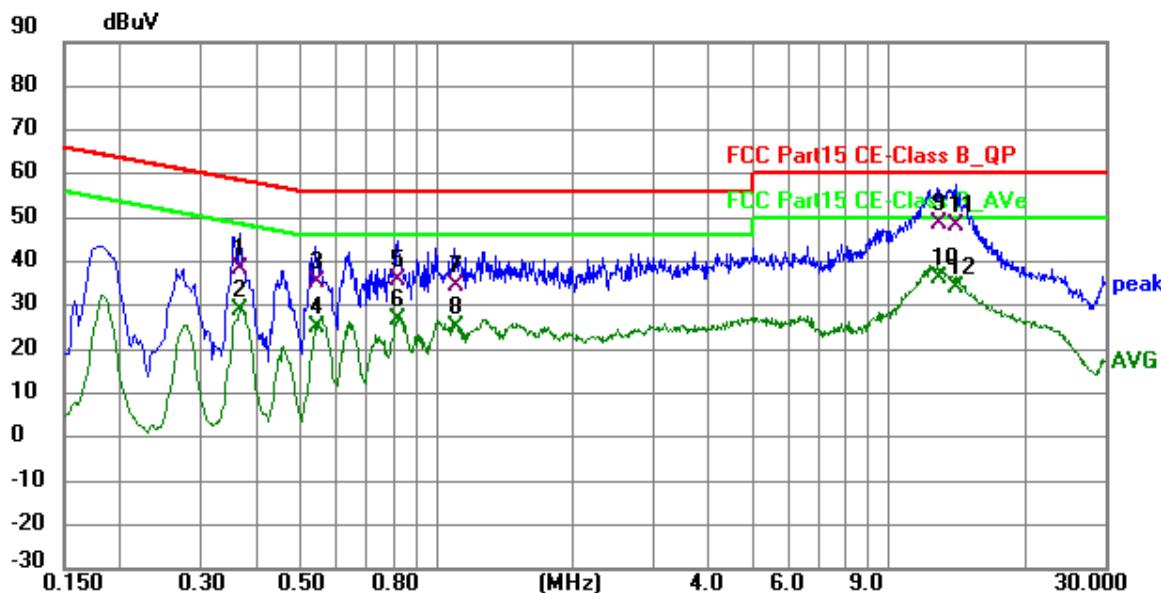
Operating Environment:	
Temperature:	22.3 °C
Humidity:	47.8 %
Atmospheric Pressure:	1010 hpa
Test Voltage	AC 120V 60Hz

### 6.1.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

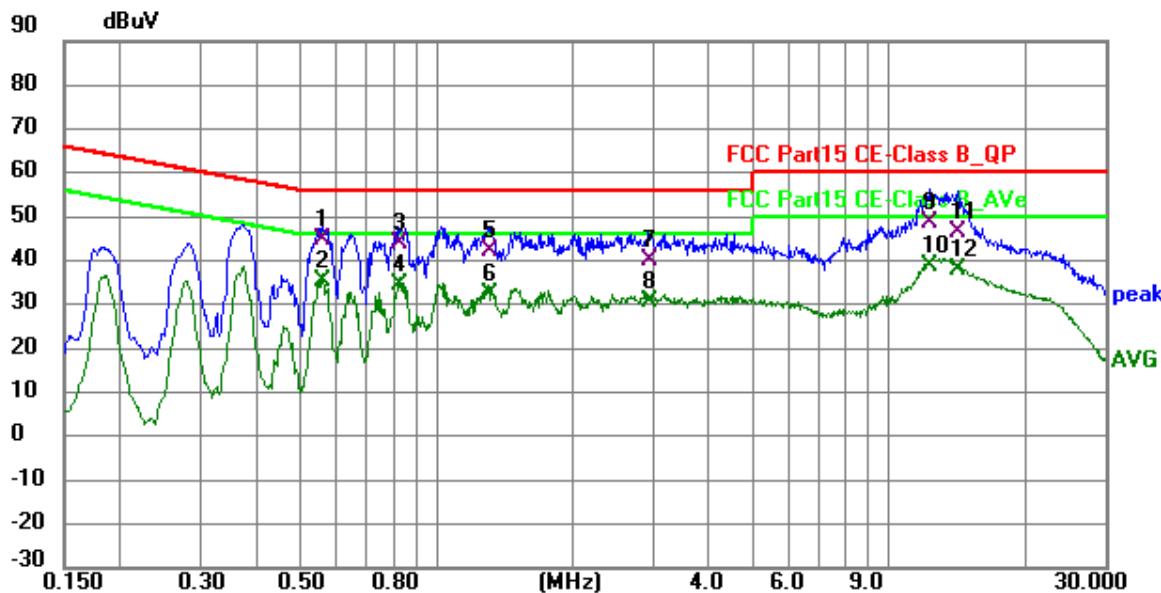
### 6.1.3 Test Data:

TM1 / Line: Line / GFSK TX 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3650	28.66	9.63	38.29	58.61	-20.32	QP	P	
2	0.3650	19.24	9.63	28.87	48.61	-19.74	AVG	P	
3	0.5413	25.91	9.62	35.53	56.00	-20.47	QP	P	
4	0.5413	15.35	9.62	24.97	46.00	-21.03	AVG	P	
5	0.8217	26.00	9.63	35.63	56.00	-20.37	QP	P	
6	0.8217	16.96	9.63	26.59	46.00	-19.41	AVG	P	
7	1.1000	25.07	9.64	34.71	56.00	-21.29	QP	P	
8	1.1000	15.26	9.64	24.90	46.00	-21.10	AVG	P	
9 *	12.8521	38.82	9.74	48.56	60.00	-11.44	QP	P	
10	12.8521	26.45	9.74	36.19	50.00	-13.81	AVG	P	
11	14.0045	38.31	9.75	48.06	60.00	-11.94	QP	P	
12	14.0045	24.53	9.75	34.28	50.00	-15.72	AVG	P	

Note: Margin=Level-Limit=Reading+factor-Limit

**TM1 / Line: Neutral / GFSK TX 2402MHz**


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.5582	35.20	9.62	44.82	56.00	-11.18	QP	P	
2 *	0.5582	25.81	9.62	35.43	46.00	-10.57	AVG	P	
3	0.8240	34.11	9.62	43.73	56.00	-12.27	QP	P	
4	0.8240	24.82	9.62	34.44	46.00	-11.56	AVG	P	
5	1.3074	32.62	9.64	42.26	56.00	-13.74	QP	P	
6	1.3074	22.83	9.64	32.47	46.00	-13.53	AVG	P	
7	2.9362	30.55	9.65	40.20	56.00	-15.80	QP	P	
8	2.9362	21.10	9.65	30.75	46.00	-15.25	AVG	P	
9	12.3829	38.70	9.74	48.44	60.00	-11.56	QP	P	
10	12.3829	29.05	9.74	38.79	50.00	-11.21	AVG	P	
11	14.2132	36.69	9.76	46.45	60.00	-13.55	QP	P	
12	14.2132	28.12	9.76	37.88	50.00	-12.12	AVG	P	

Note: Margin=Level-Limit=Reading+factor-Limit

## 6.2 Occupied Bandwidth

Test Requirement:	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.
Test Method:	Occupied bandwidth—relative measurement procedure
Test 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.
Procedure:	<p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (\text{OBW}/\text{RBW})]</math> below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using <math>[(\text{reference value}) - \text{xx}]</math>. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.</p>

	k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
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**6.2.1 E.U.T. Operation:**

Operating Environment:	
Temperature:	22.3 °C
Humidity:	45.2 %
Atmospheric Pressure:	1010 hpa

**6.2.2 Test Setup**

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test

Setup Photos

**6.2.3 Test Data:**

Please Refer to Appendix-EDR for Details.

### 6.3 Maximum Conducted Output Power

Test Requirement:	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.
Test Method:	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices
Test Limit:	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.
Procedure:	<p>This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:</p> <p>a) Use the following spectrum analyzer settings:</p> <ol style="list-style-type: none"> <li>1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.</li> <li>2) RBW &gt; 20 dB bandwidth of the emission being measured.</li> <li>3) VBW <math>\geq</math> RBW.</li> <li>4) Sweep: Auto.</li> <li>5) Detector function: Peak.</li> <li>6) Trace: Max hold.</li> </ol> <p>b) Allow trace to stabilize.</p> <p>c) Use the marker-to-peak function to set the marker to the peak of the emission.</p> <p>d) The indicated level is the peak output power, after any corrections for external attenuators and cables.</p> <p>e) A plot of the test results and setup description shall be included in the test report.</p> <p>NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.</p>

#### 6.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.3 °C
Humidity:	45.2 %
Atmospheric Pressure:	1010 hpa

#### 6.3.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

#### 6.3.3 Test Data:

Please Refer to Appendix-EDR for Details.

## 6.4 Channel Separation

Test Requirement:	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.
Test Method:	Carrier frequency separation
Test 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.
Procedure:	<p>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> <li>a) Span: Wide enough to capture the peaks of two adjacent channels.</li> <li>b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.</li> <li>c) Video (or average) bandwidth (VBW) <math>\geq</math> RBW.</li> <li>d) Sweep: Auto.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max hold.</li> <li>g) Allow the trace to stabilize.</li> </ul> <p>Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.</p>

### 6.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.3 °C
Humidity:	45.2 %
Atmospheric Pressure:	1010 hpa

### 6.4.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

### 6.4.3 Test Data:

Please Refer to Appendix-EDR for Details.

## 6.5 Number of Hopping Frequencies

Test Requirement:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	Number of hopping frequencies
Test Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Procedure:	<p>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> <li>a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.</li> <li>b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.</li> <li>c) VBW <math>\geq</math> RBW.</li> <li>d) Sweep: Auto.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max hold.</li> <li>g) Allow the trace to stabilize.</li> </ul> <p>It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.</p>

### 6.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.3 °C
Humidity:	45.2 %
Atmospheric Pressure:	1010 hpa

### 6.5.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

### 6.5.3 Test Data:

Please Refer to Appendix-EDR for Details.

## 6.6 Dwell Time

Test Requirement:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	Time of occupancy (dwell time)
Test Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Procedure:	<p>The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:</p> <ul style="list-style-type: none"> <li>a) Span: Zero span, centered on a hopping channel.</li> <li>b) RBW shall be <math>\leq</math> channel spacing and where possible RBW should be set <math>\gg 1 / T</math>, where T is the expected dwell time per channel.</li> <li>c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.</li> <li>d) Detector function: Peak.</li> <li>e) Trace: Max hold.</li> </ul> <p>Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.</p> <p>Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:</p> $(\text{Number of hops in the period specified in the requirements}) = (\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer sweep time})$ <p>The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.</p> <p>The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.</p>

### 6.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.3 °C
Humidity:	45.2 %
Atmospheric Pressure:	1010 hpa

#### 6.6.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

#### 6.6.3 Test Data:

Please Refer to Appendix-EDR for Details.

## 6.7 Emissions in non-restricted frequency bands

Test Requirement:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	Conducted spurious emissions test methodology
Test Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

### 6.7.1 E.U.T. Operation:

Operating Environment:	
Temperature:	22.3 °C
Humidity:	45.2 %
Atmospheric Pressure:	1010 hpa
Test Voltage	AC 120V 60Hz

### 6.7.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

### 6.7.3 Test Data:

Please Refer to Appendix-EDR for Details.

## 6.8 Band edge emissions (Radiated)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).
Test Method:	Radiated emissions tests
Test 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.
Procedure:	ANSI C63.10-2020 section 6.10.5.2

### 6.8.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25 °C
Humidity:	49.5 %
Atmospheric Pressure:	1010 hpa
Test Voltage	AC 120V 60Hz

### 6.8.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

### 6.8.3 Test Data:

Test Results				PASS				
Frequency Range				2310MHz~2410MHz				
Test Mode				GFSK TX 2402MHz				
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.63	-21.47	53.16	74.00	-20.84	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.28	-26.12	53.16	74.00	-20.84	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.35	-21.47	52.88	74.00	-21.12	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.47	-26.12	53.35	74.00	-20.65	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results				PASS				
Frequency Range				2450MHz~2550MHz				
Test Mode				GFSK TX 2480MHz				
1	2483.5	H	79.18	-25.29	53.89	74.00	-20.11	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.57	-25.29	53.28	74.00	-20.72	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg

Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.  
 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.  
 Result=Reading + Correct Factor.  
 Margin= Result-Limit.  
 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

Test Results				PASS				
Frequency Range				2310MHz~2410MHz				
Test Mode				$\pi/4$ DQPSK TX 2402MHz				
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.33	-21.47	52.86	74.00	-21.14	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.16	-26.12	53.04	74.00	-20.96	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
<hr/>								
1	2390	V	74.32	-21.47	52.85	74.00	-21.15	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	78.78	-26.12	52.66	74.00	-21.34	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
<hr/>								
Test Results				PASS				
Frequency Range				2450MHz~2550MHz				
Test Mode				$\pi/4$ DQPSK TX 2480MHz				
1	2483.5	H	78.54	-25.29	53.25	74.00	-20.75	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
<hr/>								
1	2483.5	V	79.24	-25.29	53.95	74.00	-20.05	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results				PASS				
Frequency Range				2310MHz~2410MHz				
Test Mode				8DPSK TX 2402MHz				
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.98	-21.47	53.51	74.00	-20.49	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.29	-26.12	53.17	74.00	-20.83	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.36	-21.47	52.89	74.00	-21.11	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.09	-26.12	52.97	74.00	-21.03	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results				PASS				
Frequency Range				2450MHz~2550MHz				
Test Mode				8DPSK TX 2480MHz				
1	2483.5	H	78.54	-25.29	53.25	74.00	-20.75	78.54
2	2483.5	H	--	-25.29	--	54.00	--	--
1	2483.5	V	78.47	-25.29	53.18	74.00	-20.82	78.47
2	2483.5	V	--	-25.29	--	54.00	--	--
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								



Test Results				PASS				
Frequency Range				2310MHz~2410MHz				
Test Mode				GFSK Hopping				
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.36	-21.47	52.89	74.00	-21.11	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.40	-26.12	53.28	74.00	-20.72	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.57	-21.47	53.10	74.00	-20.90	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.41	-26.12	53.29	74.00	-20.71	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results				PASS				
Frequency Range				2450MHz~2550MHz				
Test Mode				GFSK Hopping				
1	2483.5	H	78.85	-25.29	53.56	74.00	-20.44	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.35	-25.29	53.06	74.00	-20.94	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg

Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.  
2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.  
Result=Reading + Correct Factor.  
Margin= Result-Limit.  
3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

Test Results				PASS				
Frequency Range				2310MHz~2410MHz				
Test Mode				$\pi/4$ DQPSK Hopping				
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	75.16	-21.47	53.69	74.00	-20.31	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.42	-26.12	53.30	74.00	-20.70	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	75.02	-21.47	53.55	74.00	-20.45	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	78.95	-26.12	52.83	74.00	-21.17	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results				PASS				
Frequency Range				2450MHz~2550MHz				
Test Mode				$\pi/4$ DQPSK Hopping				
1	2483.5	H	78.84	-25.29	53.55	74.00	-20.45	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	79.04	-25.29	53.75	74.00	-20.25	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results				PASS				
Frequency Range				2310MHz~2410MHz				
Test Mode				8DPSK Hopping				
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.39	-21.47	52.92	74.00	-21.08	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.20	-26.12	53.08	74.00	-20.92	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.43	-21.47	52.96	74.00	-21.04	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.22	-26.12	53.10	74.00	-20.90	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results				PASS				
Frequency Range				2450MHz~2550MHz				
Test Mode				8DPSK Hopping				
1	2483.5	H	79.18	-25.29	53.89	74.00	-20.11	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	79.01	-25.29	53.72	74.00	-20.28	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Note:Margin=Level-Limit=Reading+factor-Limit

## 6.9 RADIATED EMISSIONS (below 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Method:	Radiated emissions tests		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.			
Procedure:	ANSI C63.10-2020 section 6.6.4		

### 6.9.1 E.U.T. Operation:

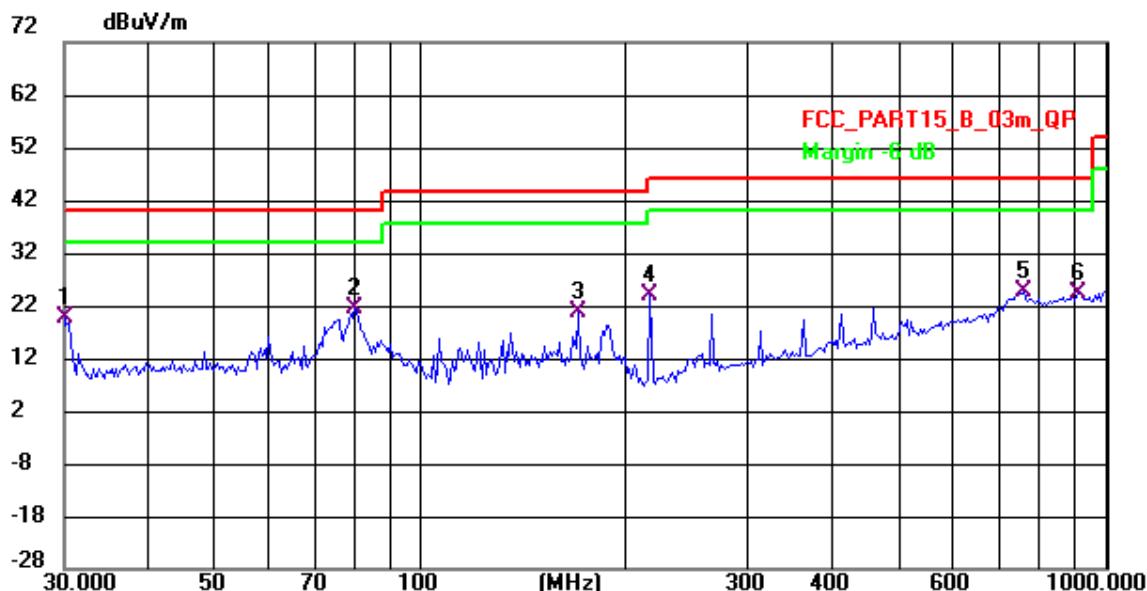
Operating Environment:	
Temperature:	25 °C
Humidity:	49.5 %
Atmospheric Pressure:	1010 hpa
Test Voltage	AC 120V 60Hz

### 6.9.2 Test Setup

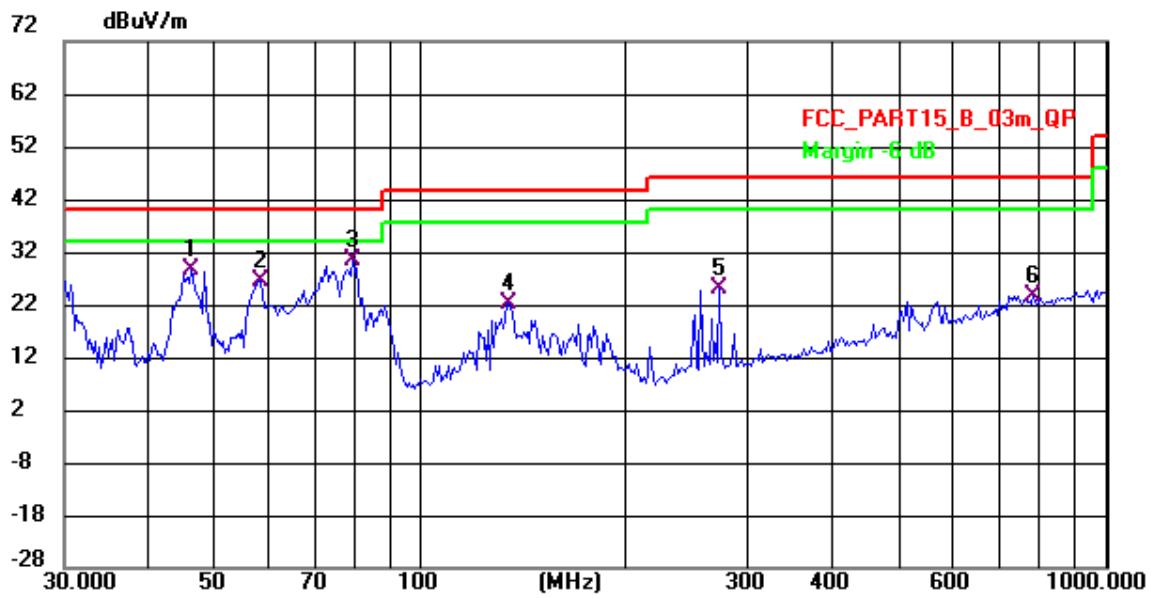
See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

### 6.9.3 Test Data:

TM1 / Polarization: Horizontal GFSK TX 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.0000	43.22	-23.40	19.82	40.00	-20.18	QP	100	270	P	
2 *	79.6764	47.45	-25.82	21.63	40.00	-18.37	QP	200	16	P	
3	168.9970	41.60	-20.97	20.63	43.50	-22.87	QP	200	52	P	
4	216.1197	49.04	-25.17	23.87	46.00	-22.13	QP	100	36	P	
5	760.2867	34.83	-10.24	24.59	46.00	-21.41	QP	100	73	P	
6	912.6953	32.55	-8.26	24.29	46.00	-21.71	QP	200	249	P	

**TM1 / Polarization: Vertical GFSK TX 2402MHz**


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	46.0558	50.75	-22.19	28.56	40.00	-11.44	QP	100	24	P	
2	58.0759	48.85	-22.49	26.36	40.00	-13.64	QP	100	98	P	
3 *	79.1185	56.19	-25.72	30.47	40.00	-9.53	QP	100	147	P	
4	134.0194	44.21	-21.90	22.31	43.50	-21.19	QP	100	9	P	
5	272.5246	47.97	-22.76	25.21	46.00	-20.79	QP	200	346	P	
6	781.9606	33.66	-10.09	23.57	46.00	-22.43	QP	200	185	P	

Note: Margin=Level-Limit=Reading+factor-Limit

## 6.10 RADIATED EMISSIONS (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Method:	Radiated emissions tests		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.			
Procedure:	ANSI C63.10-2020 section 6.6.4		

### 6.10.1 E.U.T. Operation:

Operating Environment:	
Temperature:	25 °C
Humidity:	49.5 %
Atmospheric Pressure:	1010 hpa
Test Voltage	AC 120V 60Hz

### 6.10.2 Test Setup

See section 4.5 for test setup description. The photo of test setup please refer to Appendix I Test Setup Photos

### 6.10.3 Test Data:

**Remark:** During the test, pre-scan GFSK,  $\pi/4$  DQPSK, 8DPSK mode, found GFSK was worse case mode. The report only reflects the test data of worst mode.

Test Mode : GFSK TX Low										
No.	Freq MHz	Reading (dBuV/m)	Polar (H/V)	Antenna Factor (dB)	Cable loss (dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4804	52.33	V	33.93	10.18	34.26	62.18	74	-11.82	PK
2	4804	32.90	V	33.93	10.18	34.26	42.75	54	-11.25	AV
3	7206	/	/	/	/	/	/	/	/	/
4	9608	/	/	/	/	/	/	/	/	/
5	4804	51.96	H	33.93	10.18	34.26	61.81	74	-12.19	PK
6	4804	33.05	H	33.93	10.18	34.26	42.90	54	-11.10	AV
7	7206	--	--	--			--			--
8	9608	--	--	--			--			--
Test Mode : GFSK TX Mid										
1	4880	53.07	V	33.95	10.2	34.97	62.25	74	-11.75	PK
2	4880	34.35	V	33.95	10.2	34.97	43.53	54	-10.47	AV
3	7320	/	/	/	/	/	/	/	/	/
4	9760	/	/	/	/	/	/	/	/	/
5	4880	53.94	H	33.95	10.2	34.97	63.12	74	-10.88	PK
6	4880	34.57	H	33.95	10.2	34.97	43.75	54	-10.25	AV
7	7320	--	--	--				--		--
8	9760	--	--	--				--		--
Test Mode : GFSK TX High										
1	4960	53.16	V	33.98	10.22	34.25	63.11	74	-10.89	PK
2	4960	33.98	V	33.98	10.22	34.25	43.93	54	-10.07	AV
3	7440	/	/	/	/	/	/	/	/	/
4	9920	/	/	/	/	/	/	/	/	/
5	4960	52.82	H	33.98	10.22	34.25	62.77	74	-11.23	PK
6	4960	33.39	H	33.98	10.22	34.25	43.34	54	-10.66	AV
7	7440	--	--	--			--	--		--
8	9920	--	--	--			--	--		--

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

## 7 Test Setup Photos

Please refer to the Appendix I Test Setup Photos

## 8 EUT Constructional Details (EUT Photos)

Please refer to the Appendix II External Photos & Appendix III Internal Photos



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BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street,  
Bao'an District, Shenzhen, China

[www.btf-lab.com](http://www.btf-lab.com)

**-- END OF REPORT --**