

# **FCC TEST REPORT**

Product Name: Mobile Phone

Trade Mark: BLU

Model No.: C4

Report Number: 180621009RFC-2

Test Standards: FCC 47 CFR Part 15 Subpart C

FCC ID: YHLBLUC4

Test Result: PASS

Date of Issue: July 17, 2018

Prepared for:

**BLU Products, Inc.** 10814 NW 33rd St#100 Doral, FL33172

Prepared by:

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Tested by:

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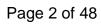
Project Engineer

Billy Li **Technical Director**  Reviewed by:

Kevin Liang Assistant Manager

Date:

July 17, 2018





**Version** 

Version No.	Date	Description
V1.0	July 17, 2018	Original





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# 1. GENERAL INFORMATION

# 1.1 CLIENT INFORMATION

Applicant:	BLU Products, Inc.	
Address of Applicant:	10814 NW 33rd St#100 Doral, FL33172	
Manufacturer:	BLU Products, Inc.	
Address of Manufacturer:	10814 NW 33rd St#100 Doral, FL33172	

## 1.2 EUT INFORMATION

## 1.2.1 General Description of EUT

2.1 General Description of Lot				
Product Name:	Mobile Phone			
Model No.:	C4			
Add. Model No.:	N/A			
Trade Mark:	BLU			
DUT Stage:	Identical Prototype			
	GSM Bands:	GSM850/1900		
EUT Supports Function:	UTRA Bands:	Band II/ Band V		
EOT Supports Function.	2.4 GHz ISM Band:	IEEE 802.11b/g/n		
		Bluetooth V4.2		
Software Version:	BLU-C050_V8.1.G01.0	01.GENERIC-05-06-201819:37		
Hardware Version:	FS286-MB-V6.0			
IMEI Code:	863595039993246, 863595039993253; 863595039993261, 863595039993279			
Sample Received Date:	June 22, 2018			
Sample Tested Date:	June 22, 2018 to June 28, 2018			

1.2.2 Description of Accessories

Adapter			
<b>Input:</b> 100-240 V~50/60 Hz 0.15 A			
Output: 5.0 V == 500 mA			
AC Cable: N/A			
DC Cable: 1 Meter, Shielded without ferrite			

Battery		
Battery Type: Lithium-ion Rechargeable Battery		
Rated Voltage: 3.7 Vdc		
Rated Capacity:	1300 mAh	

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## 1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Band:	2400 MHz to 2483.5 MHz	
Frequency Range:	2402 MHz to 2480 MHz	
Bluetooth Version:	Bluetooth BR+EDR	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	
Type of Modulation:	GFSK, π/4DQPSK, 8DPSK	
Number of Channels:	79	
Channel Separation:	1 MHz	
Hopping Channel Type:	Adaptive Frequency Hopping Systems	
Antenna Type:	PIFA Antenna	
Antenna Gain:	0.5 dBi	
Maximum Peak Power:	9.73 dBm	
Normal Test Voltage:	3.7 Vdc	
Extreme Test Voltage:	3.5 to 4.25Vdc	
Extreme Test Temperature:	-20 °C to +60 °C	

## 1.4 OTHER INFORMATION

	Operation Frequency Each of Channel				
	operation, East, or examine				
	6 - 0.400 + 1-MHz - 1 0 - 70				
	f = 2402 + k MHz, k = 0,,78				
11	Note:				
2	is the exercting frequency (MUT).				
- 1	is the operating frequency (MHz);				
Ιk	is the operating channel.				
	gg				

Modulation Configure				
Modulation Packet		Packet Type	Packet Size	
	1-DH1	4	27	
GFSK	1-DH3	11	183	
	1-DH5	15	339	
	2-DH1	20	54	
π/4 DQPSK	2-DH3	26	367	
	2-DH5	30	679	
	3-DH1	24	83	
8DPSK	3-DH3	27	552	
	3-DH5	31	1021	

#### 1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook	Lenovo	E450	SL10G10780	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.30 Meter	UnionTrust



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#### 1.6 TEST LOCATION

#### Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua

New District, Shenzhen, China 518109 Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886

#### 1.7 TEST FACILITY

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

#### CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

#### IC-Registration No.: 21600-1

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

#### A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

#### 1.8 DEVIATION FROM STANDARDS

None.

#### 1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

#### 1.10OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

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# 1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product 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.

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No.	Item	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.8 dB
2	Conducted emission 150KHz-30MHz	±3.4 dB
3	Radiated emission 9KHz-30MHz	±4.9 dB
4	Radiated emission 30MHz-1GHz	±4.7 dB
5	Radiated emission 1GHz-18GHz	±5.1 dB
6	Radiated emission 18GHz-26GHz	±5.2 dB
7	Radiated emission 26GHz-40GHz	±5.2 dB





# 2. TEST SUMMARY

	FCC 47 CFR Part 15 Subpart C Test Cases									
Test Item	Test Requirement	uirement Test Method								
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS							
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS							
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1)	ANSI C63.10-2013	PASS							
20 dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS							
Carrier Frequencies Separation	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS							
Number of Hopping Channel	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1)	ANSI C63.10-2013	PASS							
Dwell Time	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS							
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013	PASS							
Radiated Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS							
Band Edge Measurement	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS							



# 3. EQUIPMENT LIST

		" Padiated	Emission Tos	st Equipment List					
		Kaulaleu	EIIIISSIOII IES						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)			
>	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 20, 2015	Dec. 19, 2018			
~	Receiver	R&S	ESIB26	100114	Dec. 10, 2017	Dec. 10, 2018			
~	Loop Antenna	ETS-LINDGREN	6502	00202525	Dec. 22, 2017	Dec. 22, 2018			
~	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Dec. 17, 2017	Dec. 17, 2018			
~	Preamplifier	HP	8447F	2805A02960	Dec. 10, 2017	Dec. 10, 2018			
•	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	May 22, 2018	May 22, 2019			
>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Dec. 17, 2017	Dec. 17, 2018			
>	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A			
>	Band Rejection Filter (2400MHz~2500MHz)	Micro-Tronics	BRM50702	G248	June 06, 2018	June 06, 2019			
>	Wideband Radio Communication Tester	R&S	CMW500	1201.002k50- 104945-zQ	Mar. 05, 2018	Mar. 04, 2019			
>	Test Software	Audix	e3	Sof	Software Version: 9.160323				

	Conducted Emission Test Equipment List											
Used	Equipment	uipment Manufacturer		Equipment Manufacturer Model No. Serial Number		Fallinment   Manufacturer   Model No		Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)			
~	Receiver	R&S	ESR7	1316.3003K07 -101181-K3	Dec. 10, 2017	Dec. 10, 2018						
~	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	Dec. 10, 2017	Dec. 10, 2018						
>	LISN	R&S	ESH2-Z5	860014/024	Dec. 10, 2017	Dec. 10, 2018						
~	Test Software	Audix	e3	Software Version: 9.160323								

	Conducted RF test Equipment List										
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)					
>	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Dec.10, 2017	Dec. 10, 2018					
V	Wideband Radio Communication Tester	R&S	CMW500	1201.002k50- 104945-zQ	Mar. 05, 2018	Mar. 04, 2019					

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# 4. TEST CONFIGURATION

## 4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

#### 4.1.1 Normal or Extreme Test Conditions

<b>Environment Parameter</b>	Selected Values During Tests							
Test Condition	Ambient							
rest Condition	Temperature (°C)	Voltage (V)	Relative Humidity (%)					
NT/NV	+15 to +35	3.7	20 to 75					
Remark: 1) NV: Normal Voltage; N7	: Normal Temperature							

#### **4.2TEST CHANNELS**

Mode	Tx/Rx Frequency	Test RF Channel Lists					
Wode	1 X/KX Frequency	Lowest(L)	Middle(M)	Highest(H)			
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78			
(DH1, DH3, DH5)		2402 MHz	2441 MHz	2480 MHz			
π/4DQPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78			
(DH1, DH3, DH5)	2402 WITZ 10 2400 WITZ	2402 MHz	2441 MHz	2480 MHz			
8DPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78			
(DH1, DH3, DH5)	2402 WITZ 10 2460 WITZ	2402 MHz	2441 MHz	2480 MHz			

# **4.3 EUT TEST STATUS**

Type of Modulation	Tx Function	Description
GFSK/π/4DQPSK/ 8DPSK	1Tx	<ol> <li>Keep the EUT in continuously transmitting with Modulation test single</li> <li>Keep the EUT in continuously transmitting with Modulation test Hopping Frequency.</li> </ol>

Power Setting			
Power Setting: not applicable, test used software default power level.			

Test Software								
rest oortware								
EngineerMode								

#### 4.4 PRE-SCAN

#### 4.4.1 Pre-scan under all packets at middle channel

Conducted Average Power (dBm) for packets										
Type of Modulation	GFSK			π/4DQPSK			8DPSK			
Packets	1-DH1	1-DH3	1-DH5	2-DH1	2-DH3	2-DH5	3-DH1	3-DH3	3-DH5	
Power (dBm)	1.58	3.00	3.22	1.01	2.44	2.68	1.07	2.43	2.56	

#### 4.4.2 Worst-case data packets

Type of Modulation	Worst-case data rates
GFSK	1-DH5
π/4DQPSK	2-DH5
8DPSK	3-DH5

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#### 4.4.3 Tested channel detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data packets and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

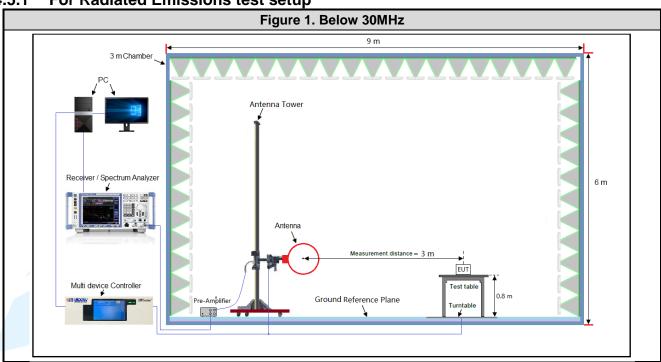
Type of Modulation		GFSK π/4DQPSK 8DPSK							
Data Packets	1-	1-	1-	2-	2-	2-	3-	3-	3-
Dala Fackets	DH1	DH3	DH5	DH1	DH3	DH5	DH1	DH3	DH5
Available Channel					0 to 78				
Test Item			Test cha	nnel and	d choose	of data	packets		
AC Power Line Conducted			Freq	uency Ho	opping Ch	nannel 0	to 78		
Emission					Link				
Conducted Peak Output				Chanr	nel 0 & 39	9 & 78			
Power			>			>			<b>V</b>
20 dB Bandwidth				Chanr	nel 0 & 39	9 & 78			
20 db balluwidill			>			>			<b>~</b>
Carrier Frequencies			Freq	uency Ho	opping Ch	nannel 0	to 78		
Separation			<			<			<b>✓</b>
Number of Henning Channel	Frequency Hopping Channel 0 to 78								
Number of Hopping Channel			<			<			~
Dwell Time	Channel 39								
Dwell Time	>	~	~	~	~	>	~	~	<b>✓</b>
Conducted Out of Band				Chanr	nel 0 & 39	9 & 78			
Emission			~			~			<b>✓</b>
D. P. G. J. F. G. G.	Channel 0 & 39 & 78								
Radiated Emissions			V						
Band Edge Measurements				Cha	annel 0 &	78			
(Radiated)			~						
Remark:									
1. The mark " <mark>▼</mark> " means is chos	sen for te	esting;							

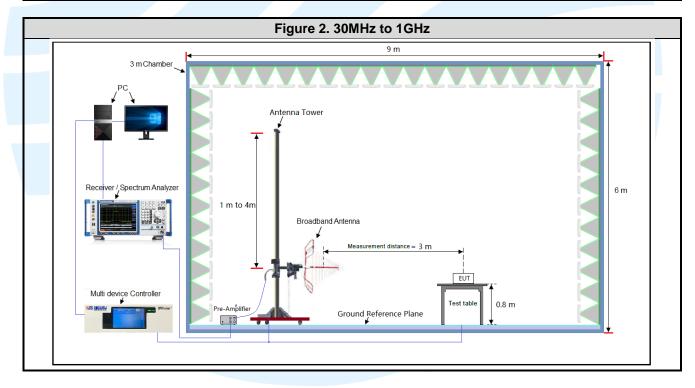
2. The mark " means is not chosen for testing.



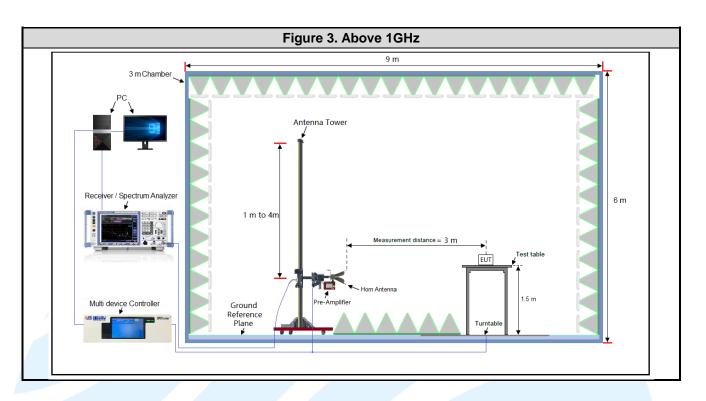
## **4.5TEST SETUP**

## 4.5.1 For Radiated Emissions test setup

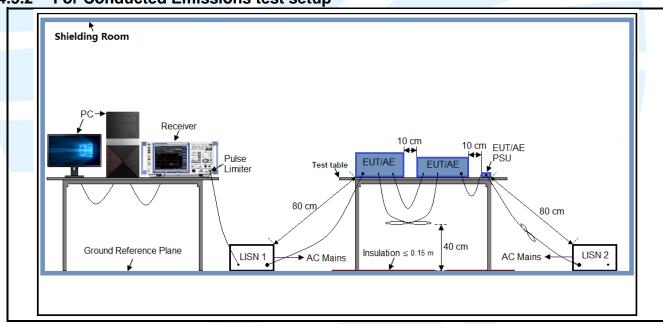






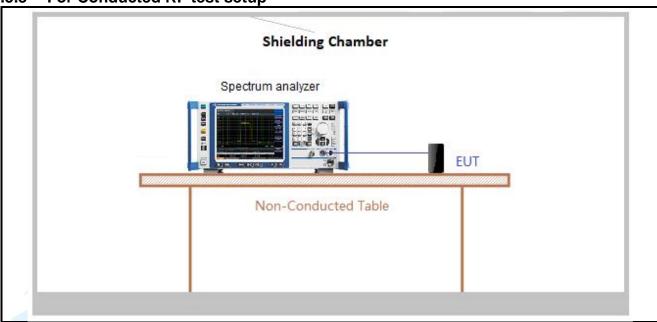


### 4.5.2 For Conducted Emissions test setup





4.5.3 For Conducted RF test setup



#### 4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.7Vdc rechargeable Li-on battery. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in orientation.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.



## **4.7 DUTY CYCLE**

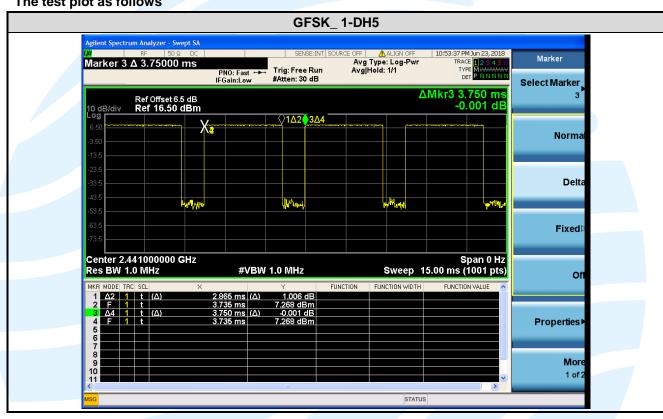
Type of Modulation	Packets	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)	Average Factor (dB)
GFSK	1-DH1	2.865	3.750	0.76	76.40	1.17	0.35	-2.34

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#### Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 \* log(1/ Duty cycle);
- 3) Average factor = 20 log<sub>10</sub> Duty Cycle.

#### The test plot as follows





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# 5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION 5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title			
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations			
2	FCC 47 CFR Part 15	Radio Frequency Devices			
3	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices			

#### **5.2 ANTENNA REQUIREMENT**

#### **Standard Requirement**

#### 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:**

Antenna in the interior of the equipment and no consideration of replacement. The gain of the antenna is 0.5 dBi.



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#### **5.3 CONDUCTED PEAK OUTPUT POWER**

Test Requirement: FCC 47 CFR Part 15 Subpart C Section15.247 (b)(1)

Test Method: ANSI C63.10-2013 Section 7.8.5

**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.

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 Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

a) Use the following spectrum analyzer settings:

1) Span: Approximately 5 x 20 dB bandwidth, centered on a hopping channel.

2) RBW > 20 dB bandwidth of the emission being measured.

3) VBW ≥ RBW.

4) Sweep: Auto.

5) Detector function: Peak.

6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

e) A plot of the test results and setup description shall be included in the test report.

**Test Setup:** Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

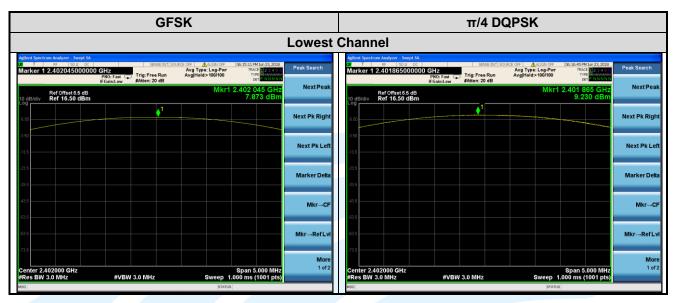
**Test Data:** 

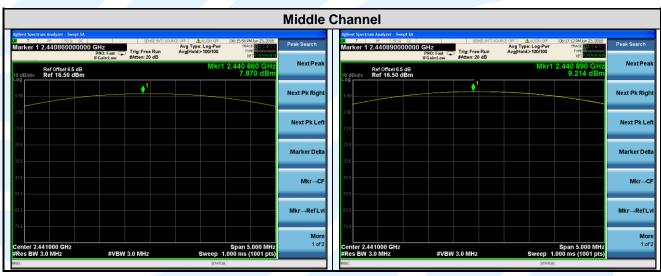
Type of Peak Output Power (dl			dBm)	Peak Output Power (mW)			
Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78	
GFSK	7.87	7.87	5.53	6.13	6.12	3.57	
π/4 DQPSK	9.23	9.21	6.85	8.38	8.34	4.84	
8DPSK	9.70	9.73	7.33	9.34	9.40	5.41	

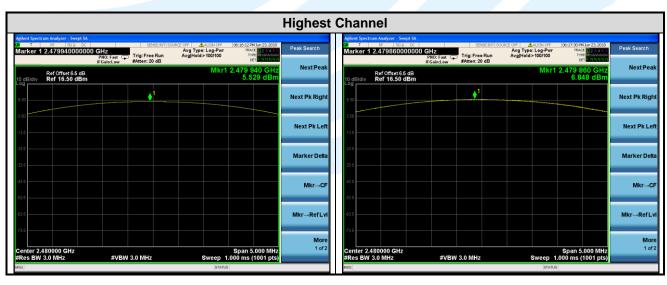
Note: The antenna gain of 0.5 dBi less than 6dBi maximum permission antenna gain value based on 1 watt peak output power limit.



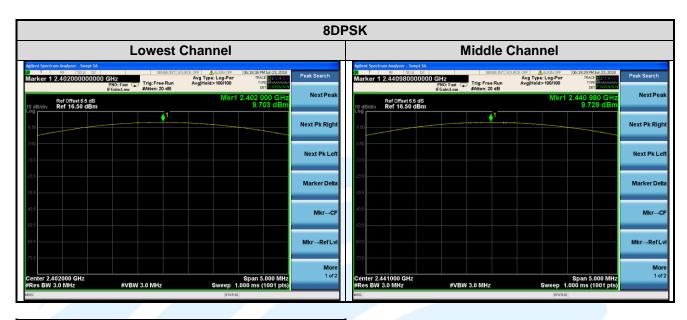
#### The test plot as follows:















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#### **5.420 DB BANDWIDTH**

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)

**Test Method:** ANSI C63.10-2013 Section 6.9.2 **Limit:** None; for reporting purposes only.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Span = approximately 2 to 5 times the OBW, centered on a hopping channel.

b) RBW = 1% to 5% of the OBW.

c) VBW ≥ 3 x RBW

d) Sweep = auto;

e) Detector function = peak

f) Trace = max hold

g) All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down bandwidth of the emission.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

**Test Setup:** Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

**Test Mode:** Transmitter mode

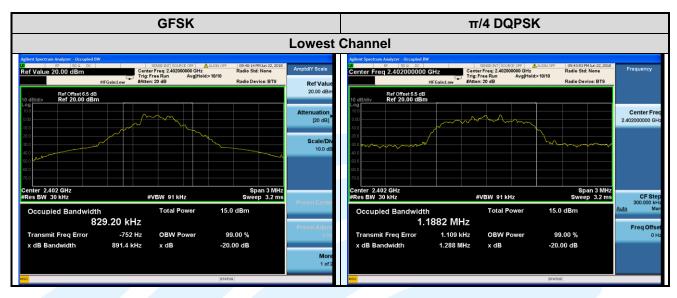
Test Results: Pass

**Test Data:** 

Type of	20 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78
GFSK	0.8914	0.9471	0.9421	0.8292	0.8370	0.8360
π/4 DQPSK	1.2880	1.2870	1.2920	1.1882	1.1801	1.1883
8DPSK	1.2900	1.2910	1.3010	1.1985	1.1855	1.2006



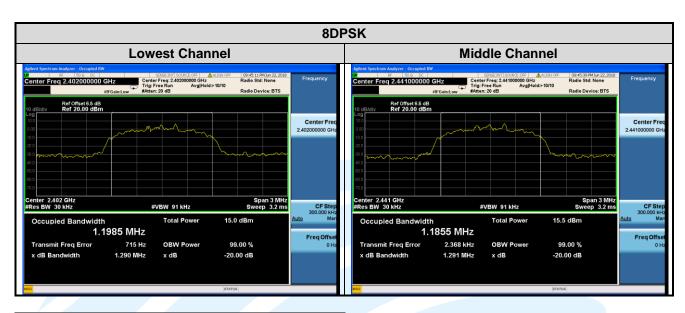
#### The test plot as follows:















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#### 5.5 CARRIER FREQUENCIES SEPARATION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)

Test Method: ANSI C63.10-2013 Section 7.8.2

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.

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 Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Span: Wide enough to capture the peaks of two adjacent channels.

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.

c) Video (or average) bandwidth (VBW) ≥ RBW.

d) Sweep: Auto.

e) Detector function: Peak.

f) Trace: Max hold.

g) Allow the trace to stabilize.

h) Use the marker-delta function to determine the separation between the peaks of

the adjacent channels.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

**Test Setup:** Refer to section 4.5.3 for details. **Instruments Used:** Refer to section 3 for details

**Test Mode:** Hopping Frequencies Transmitter mode

Test Results: Pass

**Test Data:** 

Type of Modulation	Adjacent Channel Separation (MHz)	Minimum Limit (MHz)			
Type of Modulation	Channel 39	Channel 39			
GFSK	1.000	0.594			
π/4 DQPSK	1.000	0.858			
8DPSK	1.000	0.860			
Note: The minimum limit is two-third 20 dB bandwidth.					



#### The test plot as follows:

