

FCC TEST REPORT

Product Name: Mobile Phone

Trade Mark: BLU

Model No.: Z4 MUSIC

Report Number: 2303234526RFC-1

Test Standards: FCC 47 CFR Part 15 Subpart C

FCC ID: YHLBLUZ4M253

Test Result: PASS

Date of Issue: April 20, 2023

Prepared for:

BLU Products, Inc. 8600 NW 36th Street, Suite #200 Doral, FL 33166

Prepared by:

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Approved by: Kevin Liang

Date: April 20, 2023

Assistant Manager





Version

Version No.	Date	Description
V1.0	April 20, 2023	Original





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1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

Applicant:	BLU Products, Inc.
Address of Applicant:	8600 NW 36th Street, Suite #200 Doral, FL 33166
Manufacturer:	Luzhou chiteng technology co.,LTD
Address of Manufacturer:	Building16, No.1, 6 Section of Wine Valley Avenue, Jiangyang District, Luzhou, Sichuan

1.2 EUT INFORMATION

1.2.1 General Description of EUT

TELL CONCINCTION OF ECT				
Product Name:	Mobile Phone			
Model No.:	Z4 MUSIC			
Trade Mark:	BLU			
DUT Stage:	Identical Prototype			
EUT Supports Function:	GSM Bands:	GSM850/1900		
(Provided by the customer)	2.4 GHz ISM Band:	Bluetooth V2.1 + EDR		
Sample Received Date:	March 23, 2023			
Sample Tested Date:	March 23, 2023 to April 4, 2023			

Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

1.2.2 Description of Accessories

	Adapter					
	Model No.:	US-GL-0500				
	Input:	100-240 V~50/60 Hz 0.2 A				
	Output:	5.0 V == 500 mA				
1	DC Cable:	1.0 Meter, Unshielded without ferrite				

Battery				
Model No.:	N5C800T			
Battery Type:	Lithium-ion			
Rated Voltage:	3.7 Vdc			
Limited Charge Voltage:	4.2 Vdc			
Rated Capacity:	800 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:	Monopole antenna
Antenna Gain: (Provided by the customer)	-1.61 dBi
Maximum Peak Power:	1.25 dBm
Normal Test Voltage:	3.7 Vdc

1 ACTHED INFORMATION

1.40 THER INFORMATION			
Operation Frequency Each of Channel			
<pre>f = 2402 + k MHz, k = 0,,78 Note: f</pre>			

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 Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.1 Meter	Applicant



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1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district,

Shenzhen, China

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 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

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 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

OTHER INFORMATION REQUESTED BY THE CUSTOMER 1.10

None.



MEASUREMENT UNCERTAINTY 1.11

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

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	±3.2 dB
2	Conducted emission 150kHz-30MHz	±2.7 dB
3	Radiated emission 9kHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.6 dB
5	Radiated emission 1GHz-18GHz	± 4.4 dB
6	Radiated emission 18GHz-26GHz	± 4.6 dB
7	Radiated emission 26GHz-40GHz	± 4.6 dB
8	RF Power, Conducted	± 0.68 dB
9	Transmission Time	± 0.19 %
10	Occupied Bandwidth	± 1.86 %
11	Power Spectral Density, conducted	± 0.6 dB
12	Radio Frequency	± 6.5 x 10 ⁻⁸
13	Conducted out of band emission	± 2.7 dB





2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart C Test Cases					
Test Item	Test Requirement	Test Method	Result		
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (b) (4)	N/A	PASS		
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013 Section 6.2	PASS		
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1)	ANSI C63.10-2013 Section 7.8.5	PASS		
20 dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013 Section 6.9.2	PASS		
Carrier Frequencies Separation	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013 Section 7.8,2	PASS		
Number of Hopping Channel	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1)	ANSI C63.10-2013 Section 7.8.3	PASS		
Dwell Time	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013 Section 7.8.4	PASS		
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013 Section 6.10.4 & Section 7.8.8	PASS		
Radiated Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013 Section 6.3 & 6.5 & 6.6	PASS		
Band Edge Measurement	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013 Section 6.10.5	PASS		

Disclaimer and Explanations:

The declared of product specification and data (e.g. antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.





3. EQUIPMENT LIST

	Radiated Emission Test Equipment List									
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)				
\boxtimes	3m SAC	ETS-LINDGREN	INDGREN 3m CT		22-Jan-2021	21-Jan-2024				
\boxtimes	Receiver	R&S	ESIB26	100114	3-Nov-2022	2-Nov-2023				
\boxtimes	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	15-Apr-2022	14-Apr-2023				
\boxtimes	Loop Antenna	ETS-LINDGREN	6502	00202525	11-Nov-2021	10-Nov-2023				
\boxtimes	Broadband Antenna	ETS-LINDGREN	3142E	00201566	11-Nov-2021	10-Nov-2023				
\boxtimes	6dB Attenuator	Talent	RA6A5-N- 18	18103001	11-Nov-2021	10-Nov-2023				
\boxtimes	Preamplifier	HP	8447F	2805A02960	1-Nov-2022	31-Oct-2023				
\boxtimes	Band Rejection Filter (2400MHz~2500MHz)	Micro-Tronics	BRM50702	G248	2-Nov-2022	1-Nov-2023				
×	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGRÉN	3117-PA	00201541	17-Apr-2022	16-Apr-2024				
\boxtimes	Pre-amplifier	ETS-Lindgren	00118385	00201874	1-Nov-2022	31-Oct-2023				
	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	21-Nov-2022	20-Nov-2023				
\boxtimes	Pre-amplifier	ETS-Lindgren	00118384	00202652	21-Nov-2022	20-Nov-2023				
\boxtimes	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A				
\boxtimes	Test Software	Audix	e3	Sof	tware Version: 9.16	0323				

	Conducted Emission Test Equipment List											
Used	Equipment	Manufacturer Model No. Serial Number			Cal. date Cal. Due da (mm dd, yyyy)							
	Receiver	R&S	R&S ESR7		1-Nov-2022	31-Oct-2023						
\boxtimes	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	1-Nov-2022	31-Oct-2023						
\boxtimes	LISN	R&S	ESH2-Z5	860014/024	1-Nov-2022	31-Oct-2023						
\boxtimes	LISN	ETS-Lindgren	3816/2SH	00201088	1-Nov-2022	31-Oct-2023						
\boxtimes	Test Software	Audix	e3	Sof	tware Version: 9.160	0323						

	Conducted RF test Equipment List										
Used	Equipment	Manufacturer	Model No.	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)						
\boxtimes	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	15-Apr-2022	14-Apr-2023					
\boxtimes	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	3-Nov-2022	2-Nov-2023					
	MXG X-Series RF Vector Signal Generator	KEYSIGHT	N5182B	MY51350267	1-Nov-2022	31-Oct-2023					



4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

Normal or Extreme Test Conditions

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

Record of Normal Environment and Test Sample 412

┯.	4.1.2 Record of Normal Environment and Test Sample									
	Test Item	Temperature (°C)	Relative Humidity (%) Pressure (kPa)		Sample No.	Tested by				
	AC Power Line Conducted Emission	24.2	58.7	100.1	S202303231231-ZJA02/5	Andy Lin				
	Conducted Peak Output Power	23.3	52.9	100.02		Rain Wang				
	20 dB Bandwidth	23.3	52.9	100.02		Rain Wang				
4	Carrier Frequencies Separation	23.3	52.9	100.02	S202303231231-ZJA01/5	Rain Wang				
	Number of Hopping Channel	23.3	52.9	100.02		Rain Wang				
T	Dwell Time	23.3	52.9	100.02		Rain Wang				
	Conducted Out of Band Emission	23.3	52.9	100.02		Rain Wang				
	Radiated Emissions	23.1	64.1	100.02	S202303231231-ZJA02/5	Fire Huo				
	Band Edge Measurement	23.1	64.1	100.02	3202303231231-2JA02/5	Fire Huo				

4.2TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists					
Wiode	TX/RX Frequency	Lowest(L)	Middle(M)	Highest(H)			
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78			
(DH1, DH3, DH5)	2402 IVITIZ (0 2400 IVITIZ	2402 MHz	2441 MHz	2480 MHz			
π/4DQPSK	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78			
(DH1, DH3, DH5)	2402 MHZ to 2480 MHZ	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	 Keep the EUT in continuously transmitting with Modulation test single Keep the EUT in continuously transmitting with Modulation test Hopping Frequency. 						

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Power Setting(Provided by the customer)
Power Setting: not applicable, test used software default power level.

Test Software(Provided by the customer)
Test software name: Engineering mode *#*#74655577*#*# Enter Eut Mode with CMW500

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)	-6.61	-3.62	-2.96	-7.02 -4.17 -3.51			-6.99	-4.16	-3.52

4.4.2 Worst-case data packets

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



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.

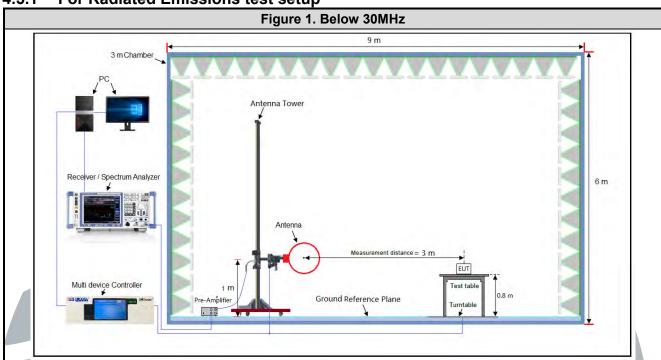
Type of Modulation		GFSK π/4DQPSK 8DPSK					8DPSK		
Data Packets	1-DH	1-DH	1-DH	2-DH	2-DH	2-DH	3-DH	3-DH	3-DH
Data Fackets	1	3	5	1	3	5	1	3	5
Available Channel					0 to 78				
Test Item		Test channel and choose of data packets							
AC Power Line Conducted			Freq	uency Ho	opping Ch	nannel 0	to 78		
Emission	Link								
Conducted Peak Output				Chan	nel 0 & 39	9 & 78			
Power						\boxtimes			\boxtimes
20 dB Bandwidth		-		Chan	nel 0 & 39	9 & 78			
20 db Baridwidti			\boxtimes			\boxtimes			\boxtimes
Carrier Frequencies	Frequency Hopping Channel 0 to 78								
Separation						\boxtimes			\boxtimes
Number of Hopping Channel	Frequency Hopping Channel 0 to 78								
Number of Hopping Charmer			\boxtimes			\boxtimes			\boxtimes
Dwell Time	Channel 39								
Dwell Time	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
Conducted Out of Band				Chanı	nel 0 & 39	9 & 78			
Emission			\boxtimes			\boxtimes			\boxtimes
Radiated Emissions	Channel 0 & 39 & 78								
Nadiated Effilssions			\boxtimes						
Band Edge Measurements				Cha	annel 0 &	78			
(Radiated)			\boxtimes						
Remark: 1. The mark "⊠" means is chosen for testing;									

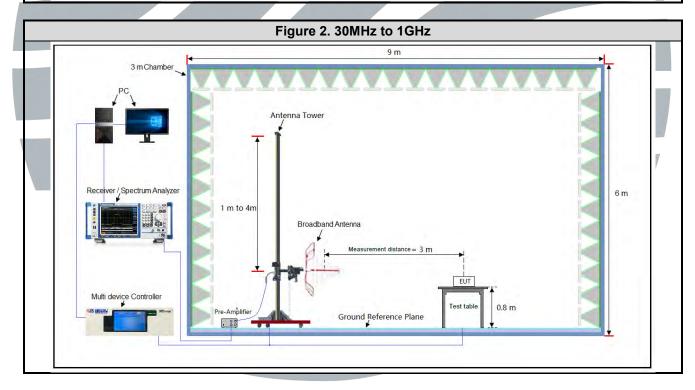
^{2.} The mark "□" means is not chosen for testing.



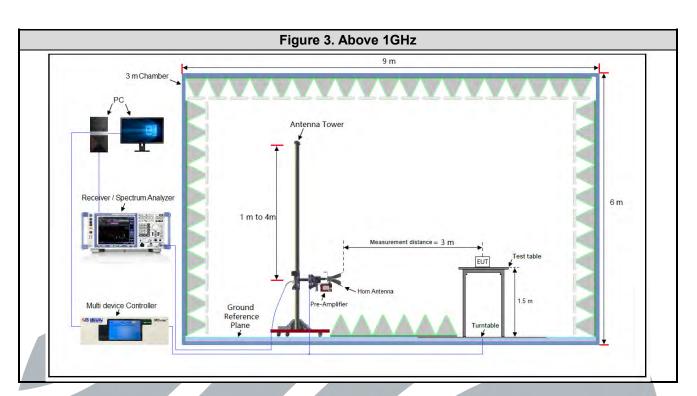
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

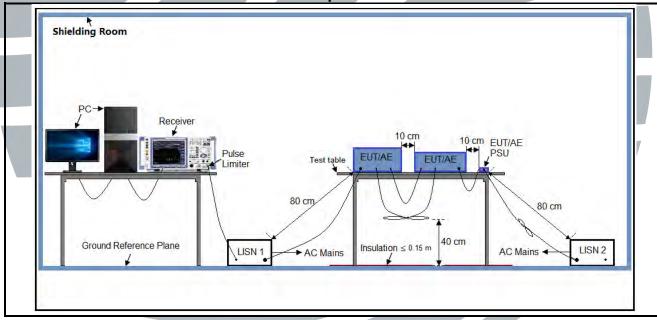






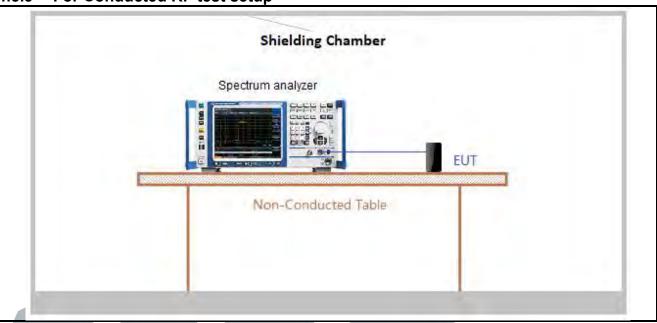


4.5.2 For Conducted Emissions test setup





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 3.7V 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 (see table below) orientation.

Frequency	Mode	Antenna Port	Worst-case axis positioning
Above 1GHz	1TX	Chain 0	Y axis

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

Test Procedure: ANSI C63.10-2013 Clause 11.6.

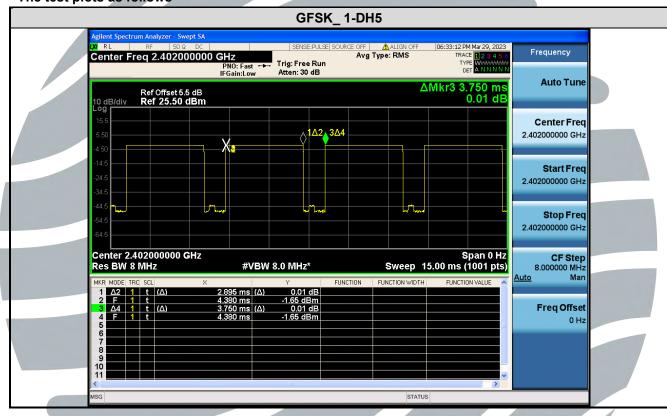
Test Results

Modulation	Packets	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T Minimum VBW (kHz)
GFSK	1-DH5	2.895	3.750	0.7720	77.20	1.124	0.35

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle);
- 3) Average factor = 20 log₁₀ Duty Cycle.

The test plots 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		
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules		

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 -1.61



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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 Results: Pass

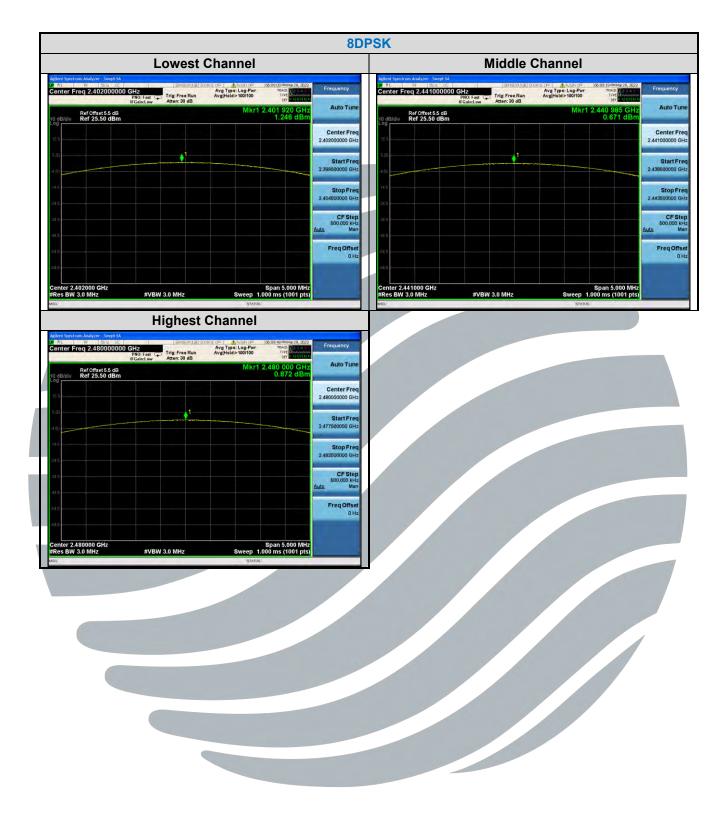
Type of	AVG POWER (dBm)			PEAK POWER (dBm)			
Modulation	Channel 0 Channel 3		Channel 78	Channel 0	Channel 39	Channel 78	
GFSK	-3.11	-2.96	-2.52	-1.261	-1.744	-1.481	
π/4DQPSK	-3.55	-3.51	-3.18	0.949	0.369	0.552	
8DPSK	-3.58	-3.52	-3.19	1.246	0.671	0.872	

Note: The antenna gain of -1.61dBi less than 6dBi maximum permission antenna gain value based on 125 mW peak output power limit.



The test plots as follows: **GFSK** π/4 DQPSK **Lowest Channel** Ref Offset 5.5 dB Ref 25.50 dBm Ref Offset 5.5 dB Ref 25.50 dBm Center Fre CF Step 500,000 kH **Middle Channel** Ref Offset 5.5 dB Ref 25.50 dBm Ref Offset 5.5 dB Ref 25.50 dBm Center Fre 2,441000000 GH Center Fre 2,441000000 GH CF Step Freq Offse Freq Offse Center 2.441000 GHz #Res BW 3.0 MHz enter 2.441000 GHz Res BW 3.0 MHz **Highest Channel** Avg Type: Log-Pwr Avg|Hold:>100/100 nter Freq 2.480000000 GHz Avg Type: Log-Pwr Avg|Hold>100/100 Ref Offset 5.5 dB Ref 25.50 dBm Ref Offset 5.5 dB Ref 25.50 dBm Center Fre Center Fre Freq Offse #VBW 3.0 MH







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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

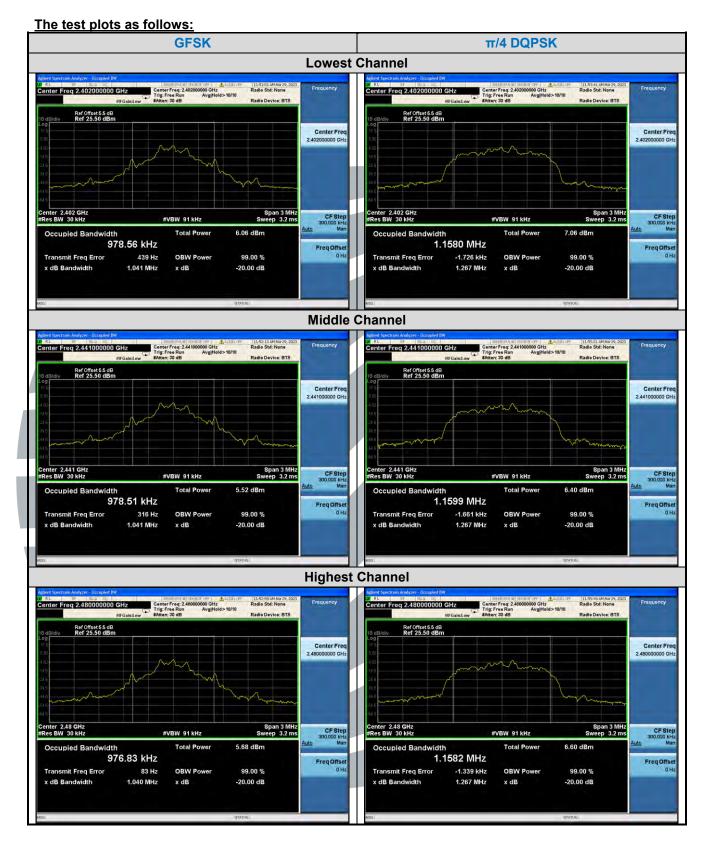
amplitude offset.

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

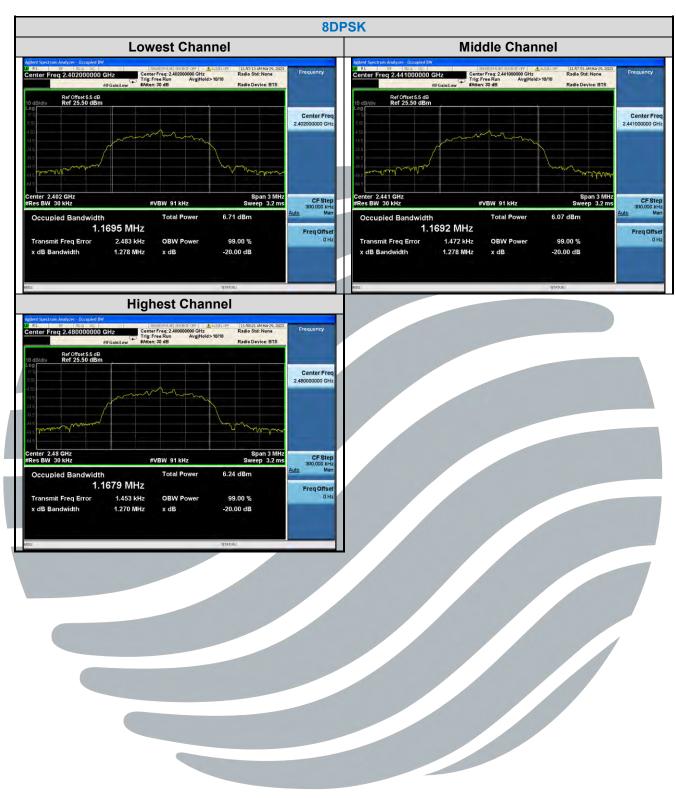
Test Results: Pass

	Type of	20 d	B Bandwidth (N	ЛHz)	99%	99% Bandwidth (MHz)		
1	Modulation	Channel 0	Channel 39	Channel 78	Channel 0	Channel 39	Channel 78	
	GFSK	1.041	1.041	1.040	0.97856	0.97851	0.97683	
	π/4 DQPSK	1.267	1.267	1.267	1.1580	1.1599	1.1582	
	8DPSK	1.278	1.278	1.270	1.1695	1.1692	1.1679	











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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 Results: Pass

Type of Modulation	Adjacent Channel Separation (MHz)	Minimum Limit (MHz)				
Type of Modulation	Channel 39	Channel 39				
GFSK	1.000	0.6940				
π/4 DQPSK	1.000	0.8447				
8DPSK	1.005	0.8520				
Note: The minimum limit is two-third 20 dB bandwidth.						



The test plots as follows: π/4 DQPSK **GFSK** Avg Type: Log-Pwi Avg|Hold:>100/100 nter Freq 2.441000000 GHz Avg Type: Log-Pwr Avg|Hold>100/100 Ref Offset 5.5 dB Ref 25.50 dBm Ref Offset 5.5 dB Ref 25.50 dBm CF Step 500,000 kH: Mar 8DPSK Avg Type: Log-Pwr Avg[Hold:>100/100 enter Freq 2.441000000 GHz Ref Offset 5.5 dB Ref 25.50 dBm Center Fre 2,441000000 GH



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5.6 NUMBER OF HOPPING CHANNEL

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

Test Method: ANSI C63.10-2013 Section 7.8.3

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

non-overlapping channels.

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: 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.

b) RBW < 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

c) VBW ≥ RBW.

d) Sweep: Auto.

e) Detector function: Peak.

f) Trace: Max hold.

g) Allow the trace to stabilize.

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 Results: Pass

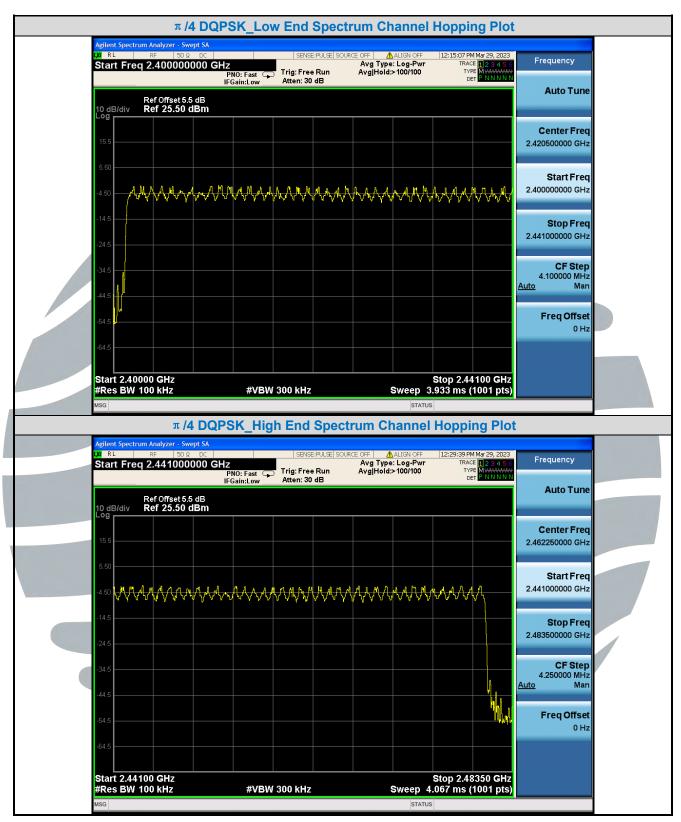
1	Type of Modulation	Number of Hopping Channel				
	GFSK	79				
	π /4 DQPSK	79				
	8DPSK	79				



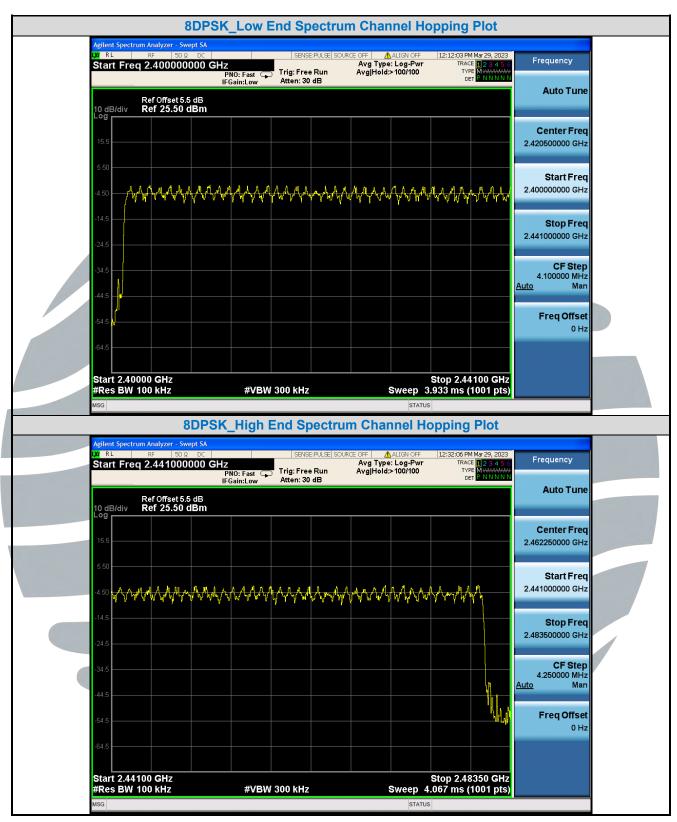
The test plots as follows: **GFSK_Low End Spectrum Channel Hopping Plot** Frequency Avg Type: Log-Pwr Avg|Hold:>100/100 Start Freq 2.400000000 GHz PNO: Fast Trig: Free Run IFGain:Low Atten: 30 dB **Auto Tune** Ref Offset 5.5 dB Ref 25.50 dBm 10 dB/div Center Freq 2.420500000 GHz Start Freq 2.400000000 GHz Stop Freq 2.441000000 GHz CF Step 4.100000 MHz Man Freq Offset 0 Hz Start 2.40000 GHz Stop 2.44100 GHz #Res BW 100 kHz **#VBW** 300 kHz Sweep 3.933 ms (1001 pts) GFSK_High End Spectrum Channel Hopping Plot E OFF ALIGN OFF
Avg Type: Log-Pwr
Avg|Hold:>100/100 Frequency Start Freq 2.441000000 GHz PNO: Fast Trig: Free Run Atten: 30 dB **Auto Tune** Ref Offset 5.5 dB Ref 25.50 dBm 10 dB/div Log 2.462250000 GHz Start Freq 2.441000000 GHz Stop Freq 2.483500000 GHz CF Step 4.250000 MHz Man Auto Frea Offset Start 2.44100 GHz #Res BW 100 kHz Stop 2.48350 GHz Sweep 4.067 ms (1001 pts)

#VBW 300 kHz









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5.7 DWELL TIME

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

Test Method: ANSI C63.10-2013 Section 7.8.4

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.

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 = zero span, centered on a hopping channel

b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

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.

d) Detector function = peak

e) Trace = max hold

f) Use the marker-delta function to determine the dwell time

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

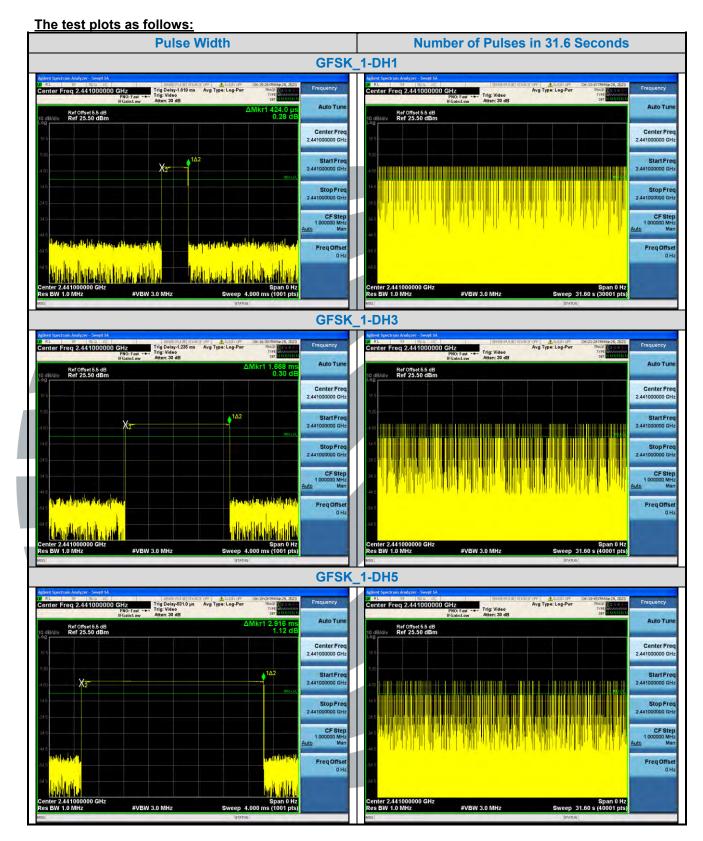
amplitude offset.

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

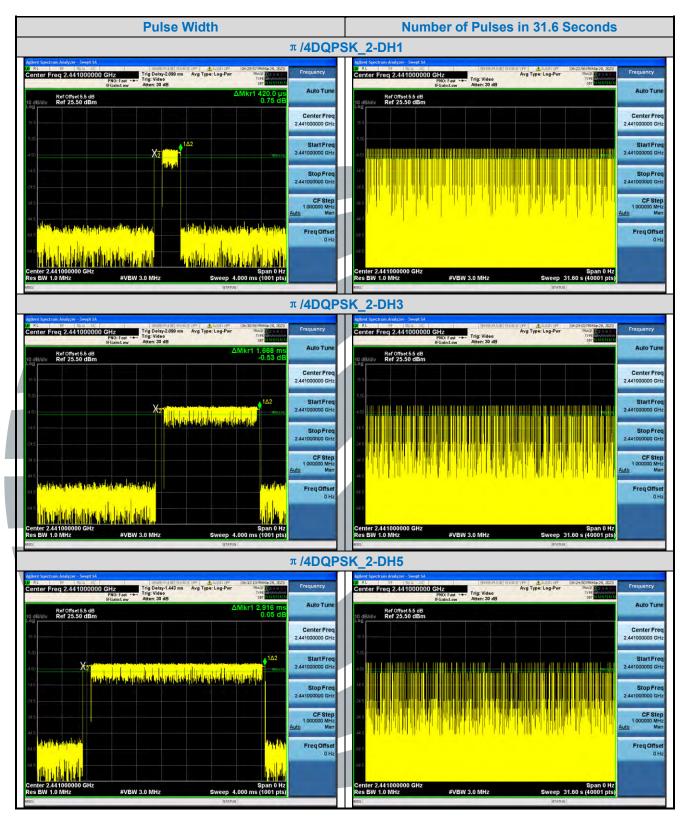
Test Results: Pass

Modulation	Test Frequency (MHz)	Packet	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time	Limit (ms)
		1-DH1	0.424	320	135.68	< 400
GFSK	2441	1-DH3	1.668	170	283.56	< 400
		1-DH5	2.916	90	262.44	< 400
		2-DH1	0.420	320	134.40	< 400
π/4DQPSK	2441	2-DH3	1.668	190	316.92	< 400
		2-DH5	2.916	120	349.92	< 400
		3-DH1	0.416	320	133.12	< 400
8DPSK	2441	3-DH3	1.668	200	333.60	< 400
		3-DH5	2.920	120	350.40	< 400

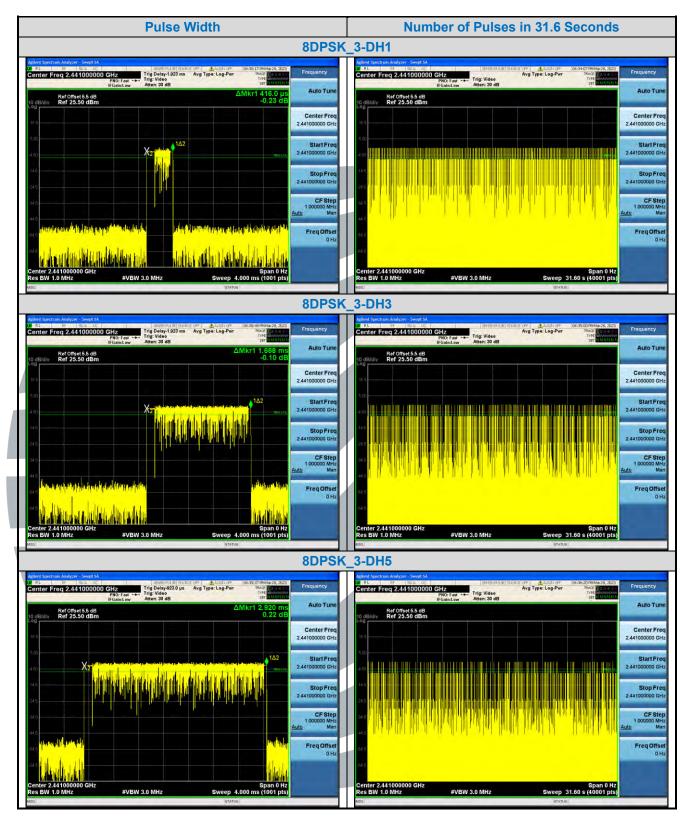














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5.8 CONDUCTED OUT OF BAND EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(d) **Test Method:** ANSI C63.10-2013 Section 6.10.4 & Section 7.8.8

Limit: In any 100kHz bandwidth outside the frequency bands in which the spread spectrum

intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

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:

Step 1: Measurement Procedure REF

a) Set instrument center frequency to 2400 MHz or 2483.5 MHz.

- b) Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
- c) Set the RBW = 100 kHz.
- d) Set the VBW $\geq 3 \times RBW$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Sweep points ≥ 2 x Span/RBW
- h) Trace mode = max hold.
- i) Allow the trace to stabilize.
- j) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.

Step 2: Measurement Procedure OOBE

- a) Set RBW = 100 kHz.
- b) Set VBW ≥ 300 kHz.
- c) Detector = peak.
- d) Sweep = auto couple.
- e) Trace Mode = max hold.
- f) Allow trace to fully stabilize.
- g) Use the peak marker function to determine the maximum amplitude level.

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

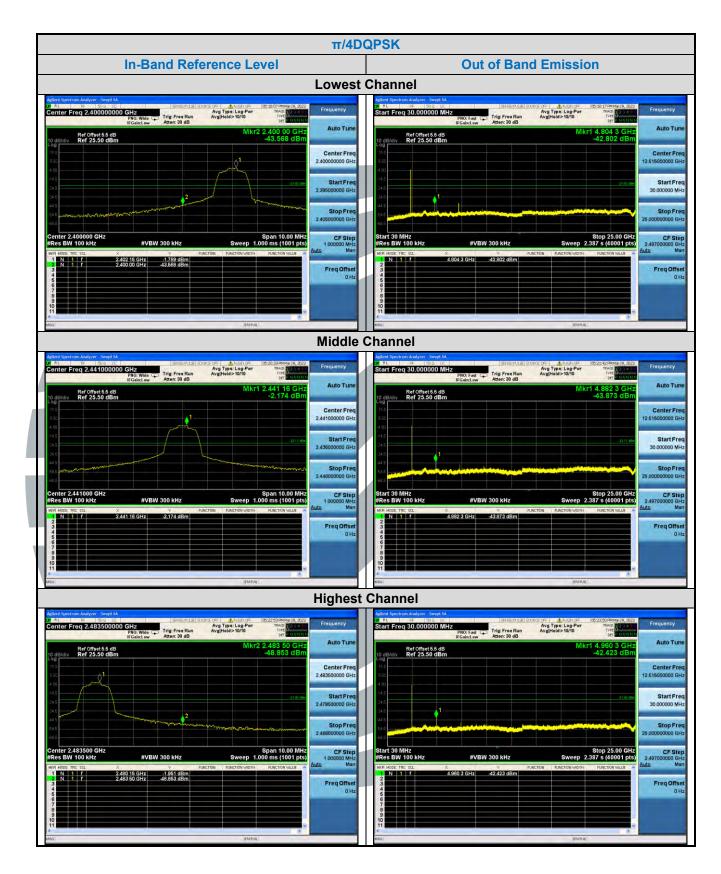
Test Mode: Hopping Frequencies Transmitter mode

Test Results: Pass

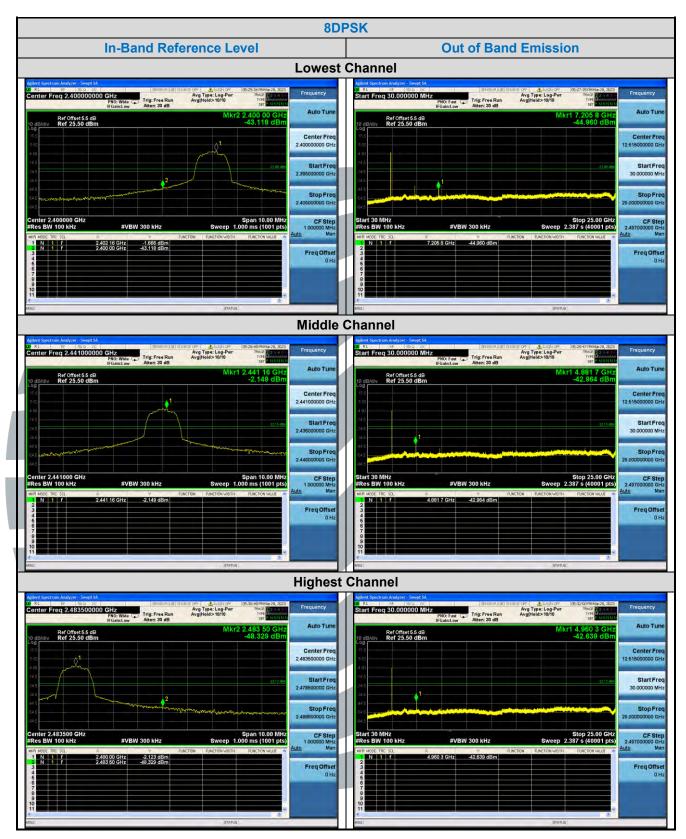


The test plots as follows: **GFSK In-Band Reference Level Out of Band Emission Lowest Channel** Avg Type: Log-Pwr Avg[Hold:>100/100 tart Freq 30.000000 MHz Avg Type: Log-Pwr Avg|Hold>10/10 Ref Offset 5.5 dB Ref 25.50 dBm Ref Offset 5.5 dB Ref 25.50 dBm Center Fre Start Free Freq Offse Freq Offse **Middle Channel** Avg Type: Log-Pwr AvgiHold>10/10 : Fast Trig: Free Run Atten: 30 dB Ref Offset 5.5 dB Ref 25.50 dBm Ref Offset 5.5 dB Ref 25.50 dBm Stop Free 2,497000000 GHz Center 2.441000 GHz CF Step 1.000000 MH Start 30 MHz Res BW 100 kH **Highest Channel** Center Fre 2.483500000 GH Center Fre Start Free CF Ste CF Step 2.480 15 GHz 2.483 50 GHz -1.845 dBm -49.001 dBm Freq Offset

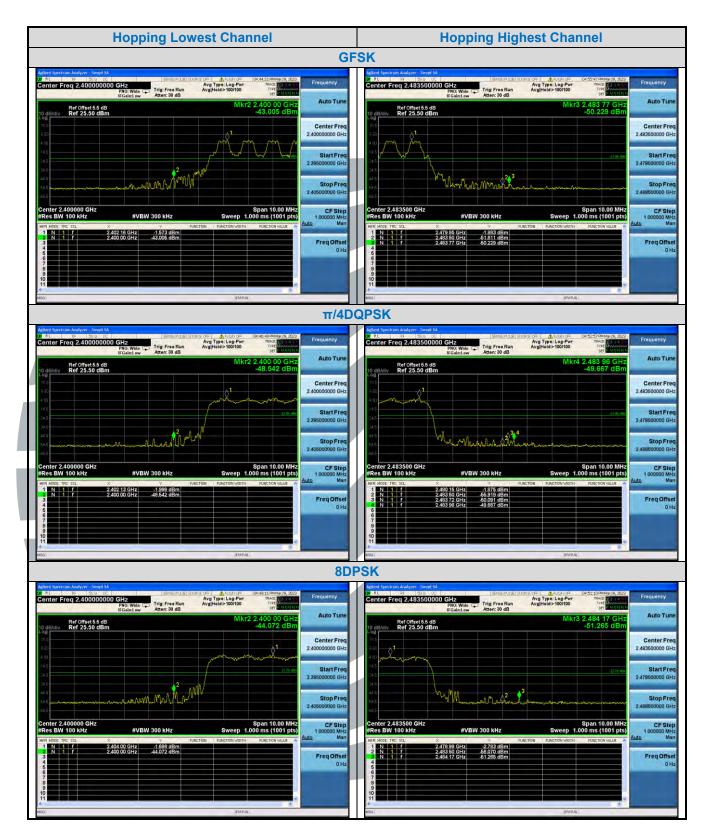












Remark:

1) All the above data, the fundamental frequency is not marked, it may exceed the limit, please ignore it.

Shenzhen UnionTrust Quality and Technology Co., Ltd.



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5.9 RADIATED SPURIOUS EMISSIONS

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

Test Method: ANSI C63.10-2013 Section 6.3 & 6.5 & 6.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

Spurious Emissions

Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	-		300
0.490 MHz-1.705 MHz	24000/F(kHz)	-		30
1.705 MHz-30 MHz	30	,	-	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, 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.

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

- 1. From 30 MHz to 1GHz test procedure as below:
- 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) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) 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 measurement.
- 4) 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 rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6) 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 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- 2. Above 1GHz test procedure as below:
- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

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- 2) Test the EUT in the lowest channel ,middle channel, the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Y axis positioning which it is worse case.
- 4) Repeat above procedures until all frequencies measured was complete.

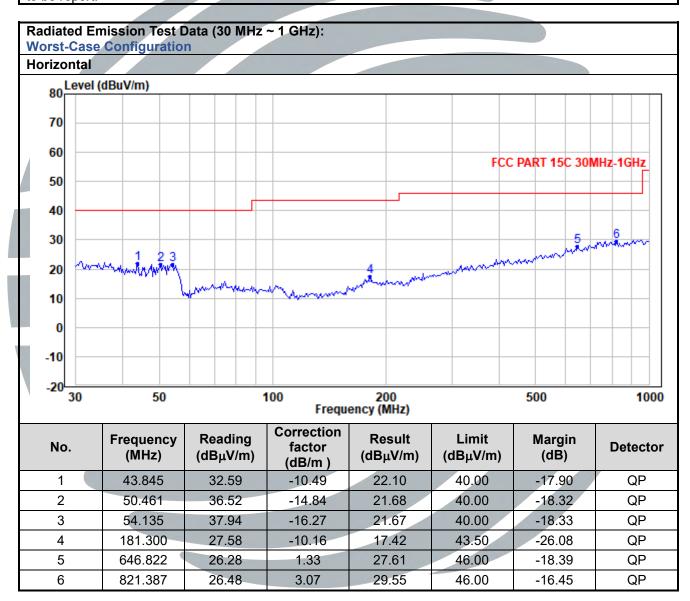
Equipment Used: Refer to section 3 for details.

Test Result: Pass

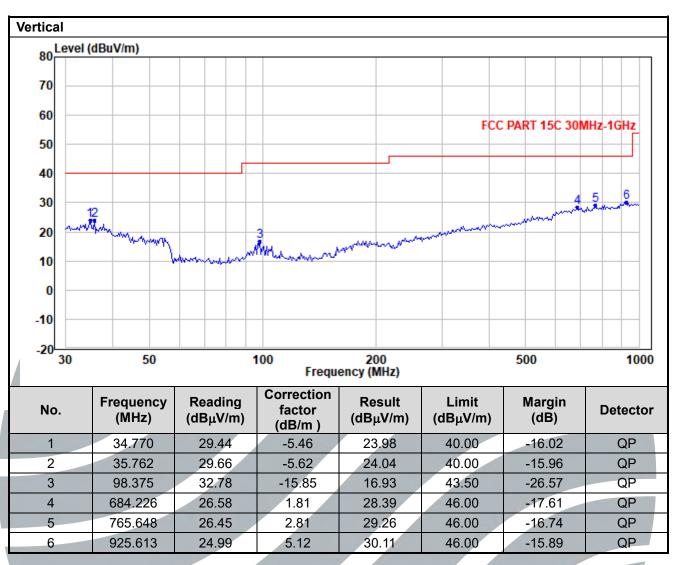
The measurement data as follows:

Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.









	Radiated Emission Test Data (Above 1GHz): Lowest Channel:							
No.	Frequency (MHz)	Reading (dBµV)	Correction factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4804.00	41.02	-2.42	38.60	74.00	-35.40	Peak	Horizontal
2	4804.00	27.29	-2.42	24.87	54.00	-29.13	Average	Horizontal
3	7206.00	41.19	1.62	42.81	74.00	-31.19	Peak	Horizontal
4	7206.00	29.23	1.62	30.85	54.00	-23.15	Average	Horizontal
5	4804.00	38.90	-2.42	36.48	74.00	-37.52	Peak	Vertical
6	4804.00	26.78	-2.42	24.36	54.00	-29.64	Average	Vertical
7	7206.00	41.04	1.62	42.66	74.00	-31.34	Peak	Vertical
8	7206.00	29.30	1.62	30.92	54.00	-23.08	Average	Vertical
Middle Channel:								
1	4882.00	38.54	-2.35	36.19	74.00	-37.81	Peak	Horizontal
2	4882.00	26.67	-2.35	24.32	54.00	-29.68	Average	Horizontal
3	7323.00	41.23	1.69	42.92	74.00	-31.08	Peak	Horizontal
4	7323.00	28.19	1.69	29.88	54.00	-24.12	Average	Horizontal
5	4882.00	40.61	-2.35	38.26	74.00	-35.74	Peak	Vertical
6	4882.00	29.60	-2.35	27.25	54.00	-26.75	Average	Vertical
7	7323.00	41.66	1.69	43.35	74.00	-30.65	Peak	Vertical
8	7323.00	29.58	1.69	31.27	54.00	-22.73	Average	Vertical
High	Highest Channel:							
1	4960.00	41.47	-2.27	39.20	74.00	-34.80	Peak	Horizontal
2	4960.00	29.79	-2.27	27.52	54.00	-26.48	Average	Horizontal
3	7440.00	40.46	1.77	42.23	74.00	-31.77	Peak	Horizontal
4	7440.00	28.76	1.77	30.53	54.00	-23.47	Average	Horizontal
5	4960.00	39.64	-2.27	37.37	74.00	-36.63	Peak	Vertical
6	4960.00	29.43	-2.27	27.16	54.00	-26.84	Average	Vertical
7	7440.00	39.24	1.77	41.01	74.00	-32.99	Peak	Vertical
8	7440.00	28.49	1.77	30.26	54.00	-23.74	Average	Vertical

Remark:

- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
- 2. Result = Reading + Correct Factor.
- 3. Margin = Result Limit



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5.10 BAND EDGE MEASUREMENTS (RADIATED)

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

Test Method: ANSI C63.10-2013 Section 6.10.5

Limits:

Radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).

Frequency	Limit (dBµV/m @3m)	Remark		
30 MHz-88 MHz	40.0	Quasi-peak Value		
88 MHz-216 MHz	43.5	Quasi-peak Value		
216 MHz-960 MHz	46.0	Quasi-peak Value		
960 MHz-1 GHz	54.0	Quasi-peak Value		
Above 1 GHz	54.0	Average Value		
	74.0	Peak Value		

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

Radiated band edge measurements at 2390 MHz and 2483.5 MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 3 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz or 1/T for average levels).

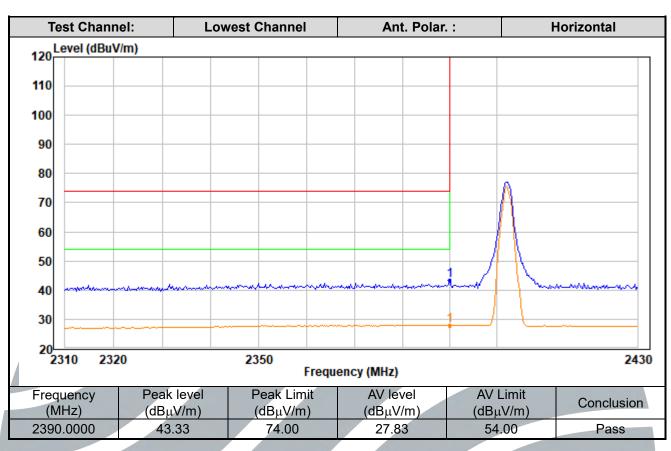
- 1. Use radiated spurious emission test procedure described in clause 5.10. The transmitter output (antenna port) was connected to the test receiver.
- 2. Set the PK and AV limit line.
- 3. Record the fundamental emission and emissions out of the band-edge.
- 4. Determine band-edge compliance as required.

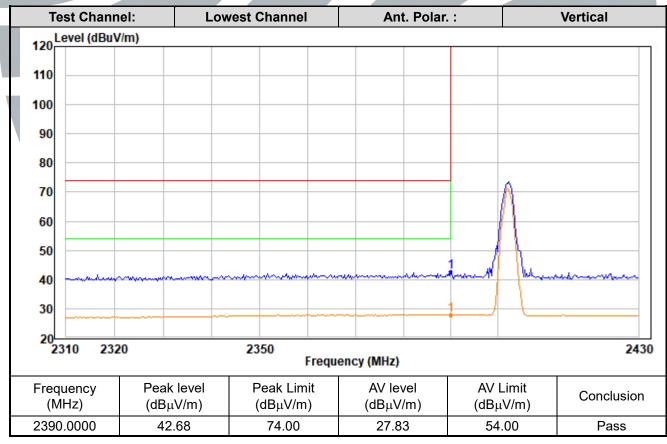
Equipment Used: Refer to section 3 for details.

Test Result: Pass

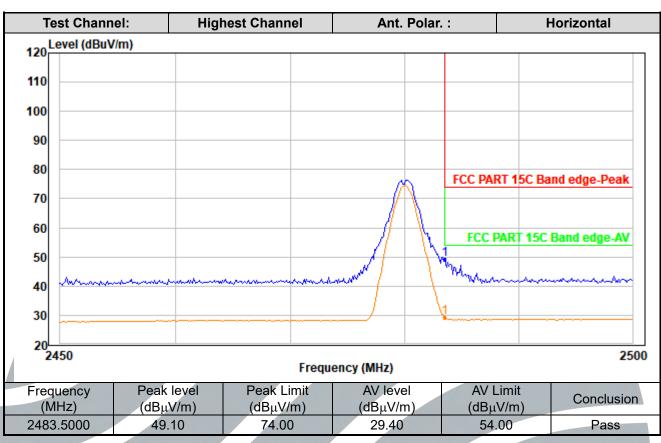
The measurement data as follows:

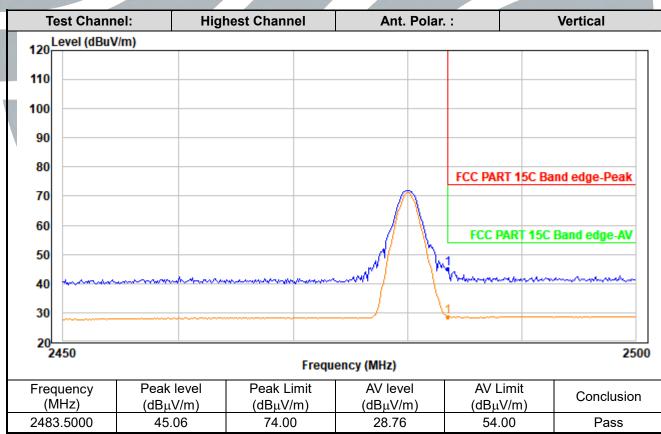














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5.11 CONDUCTED EMISSION

Test Requirement: 47 CFR Part 15C Section 15.207 **Test Method:** ANSI C63.10-2013 Section 6.2

Limits:

Frequency range	Limits (dB(μV)		
(MHz)	Quasi-peak	Average	
0,15 to 0,50	66 to 56	56 to 46	
0,50 to 5	56	46	
5 to 30	60	50	

Remark:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.5.2 for details.

Test Procedures:

Test frequency range: 150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu H + 5\Omega$ linear 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.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of 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 the 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 of 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 equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

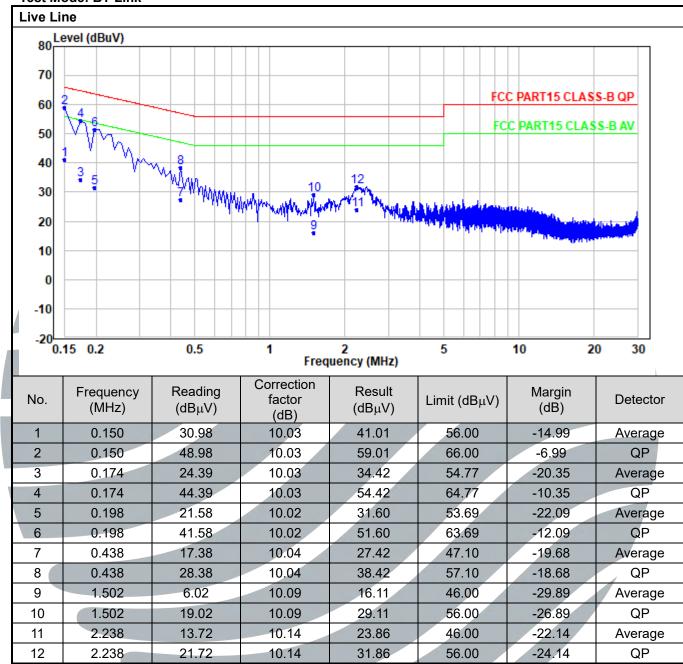
Equipment Used: Refer to section 3 for details.

Test Result: Pass

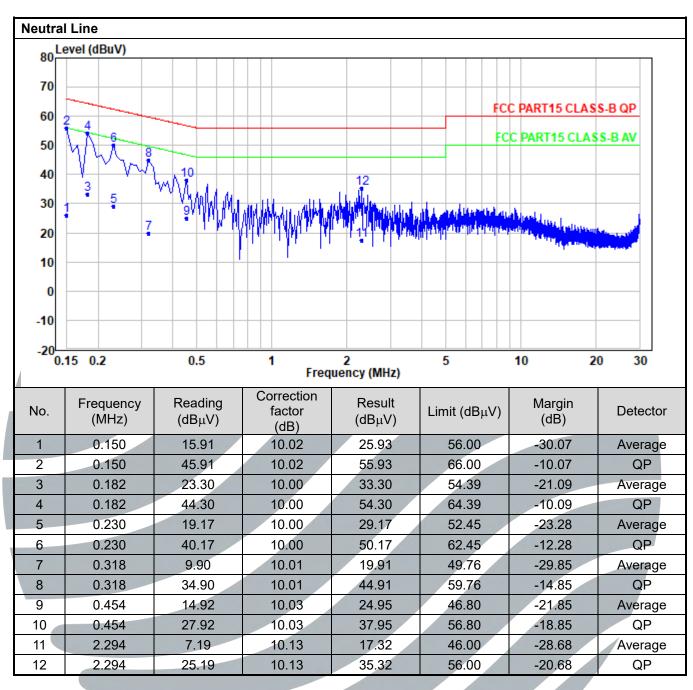


The measurement data as follows:

Quasi Peak and Average: **Test Mode: BT Link**







Remark:

- 1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
- 2. Result = Reading + Correct Factor.
- 3. Margin = Result Limit
- 4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



APPENDIX 1 PHOTOS OF TEST SETUP

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See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

