FCC TEST REPORT

Product Name:	Smart Phone
Trade Mark:	BLU
Model No.:	C9
Report Number:	2402189665RFC-2
Test Standards:	FCC 47 CFR Part 15 Subpart C
FCC ID:	YHLBLUC9C
Test Result:	PASS
Date of Issue:	May 7, 2024

Prepared for:

BLU Products, Inc. 8600 NW 36th Street, Suite #300 | Miami, FL 33166

Prepared by:

Shenzhen UnionTrust Quality and Technology Co., Ltd. Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China TEL: +86-755-2823 0888 FAX: +86-755-2823 0886

Prepared by:

Parid Chen

David Chen

Senior Project Engineer

Reviewed by:

m

Henry Lu Team Leader

Approved by:

Robber chen

Date:

May 7, 2024

Robben Chen Assistant Manager

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Version

Version No.	Date	Description
V1.0	May 7, 2024	Original



CONTENTS

1.	GENE	ERAL INFORMATION	5
	1.1	CLIENT INFORMATION	5
	1.2	EUT INFORMATION	
		1.2.1 GENERAL DESCRIPTION OF EUT	5
		1.2.2 DESCRIPTION OF ACCESSORIES.	
	1.3	PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	
	1.4	OTHER INFORMATION	
	1.5	DESCRIPTION OF SUPPORT UNITS	
	1.6	TEST LOCATION	
	1.7	TEST FACILITY	
	1.8	DEVIATION FROM STANDARDS	
	1.9	ABNORMALITIES FROM STANDARD CONDITIONS	
		OTHER INFORMATION REQUESTED BY THE CUSTOMER	
	1.10	MEASUREMENT UNCERTAINTY	
		SUMMARY	
3.	EQUI	PMENT LIST	10
4.	TEST	CONFIGURATION	
	4.1	ENVIRONMENTAL CONDITIONS FOR TESTING	44
	4.1		
	4.0		
	4.2	TEST CHANNELS	
	4.3	EUT TEST STATUS	
	4.4	PRE-SCAN	
		4.4.1 PRE-SCAN UNDER ALL PACKETS AT MIDDLE CHANNEL	
		4.4.2 WORST-CASE DATA PACKETS	
		4.4.3 TESTED CHANNEL DETAIL	
	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	
	4.7	DUTY CYCLE	16
5.	RADI	O TECHNICAL REQUIREMENTS SPECIFICATION	
	5.1	REFERENCE DOCUMENTS FOR TESTING	17
	5.2	ANTENNA REQUIREMENT	
	5.2 5.3	CONDUCTED PEAK OUTPUT POWER	
	5.3 5.4	20 dB Bandwidth	
	5.5	CARRIER FREQUENCIES SEPARATION	
	5.5 5.6	NUMBER OF HOPPING CHANNEL	
	5.0 5.7	DWELL TIME	
		CONDUCTED OUT OF BAND EMISSION	
	5.8		
	5.9	RADIATED SPURIOUS EMISSIONS BAND EDGE MEASUREMENTS (RADIATED)	
		CONDUCTED EMISSION	
APF	PENDI	X A RF TEST DATA	
	A.1	20dB BANdwidth	-
	A.2	CARRIER FREQUENCIES SEPARATION	36
	A.3	CONDUCTED OUT OF BAND EMISSION	37
	A.4	DWELL TIME	
	A.5	NUMBER OF HOPPING CHANNEL	49
APF	PENDI	X 1 PHOTOS OF TEST SETUP	50

Uni⊗nTrust



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

 Tel: +86-755-28230888
 Fax: +86-755-28230886
 E-mail: info@uttlab.com
 http://www.uttlab.com

 UTTR-RF-FCCPART15.247-V1.1
 Http://www.uttlab.com
 http://www.uttlab.com

1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	BLU Products, Inc.
Address of Applicant:	8600 NW 36th Street, Suite #300 Miami, FL 33166
Manufacturer:	BLU Products, Inc.
Address of Manufacturer:	8600 NW 36th Street, Suite #300 Miami, FL 33166

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smart Phone			
Model No.:	C9			
Trade Mark:	BLU			
DUT Stage:	Identical Prototype			
	GSM Bands:	GSM850/PCS 1900		
	UTRA Bands:	WCDMA Band II/ Band IV/ Band V		
EUT Supports Function:	E-UTRA Bands:	FDD Band 2/ Band 4/ Band 5/ Band 7/ Band 12/ / Band 13/ Band 17/ Band 66/ Band 71		
(Provided by the customer)	2.4 GHz ISM Band:	IEEE 802.1	1b/g/n	
		Bluetooth 4	1.2	
	RNSS Band:	1559 MHz	to 1610 MHz	GPS/ GLONASS
	BSR:	VHF Band II FM		
Software Version:	TP1A.220624.014(Provided by the customer)			
Hardware Version:	KC9ZH_01 (Provided I	by the custor	mer)	
Sample Received Date:	February 5, 2024			
Sample Tested Date:	February 5, 2024 to Ma	arch 31, 202	4	
Note: This device comes in t	Note: This device comes in two different configuration differences			
Sample No.	Fingerprint unlock Memory			
S202402052722-ZJA03/6	Not support		2+32G	
S202404033055-ZJC01/1				
				yout. The differences among
				rent sample, the sample with
worst data S202402052722-2	ZJA03/6 was chosen to	perform the t	ests as represe	entative.

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-KB-1501	
Input:	100-240 V~50/60 Hz 0.6 A	
Output:	5.0 V === 1500 mA	

Cable		
Connector:	USB Cable	
Cable Type:	Unshielded without ferrite	
Length:	1.0 Meter	

Battery			
Model No.:	C896351400L		
Battery Type:	_ithium-ion Battery		
Rated Voltage:	3.85 Vdc		
Typical Capacity:	4000 mAh		
Rated Capacity:	3850 mAh		

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: (Provided by the customer)	PIFA Antenna		
Antenna Gain: (Provided by the customer)	-3.5 dBi		
Maximum Peak Power:	8.19 dBm		
Normal Test Voltage:	3.85 Vdc		

1.4 OTHER INFORMATION

Operation Frequency Each of Channel

```
f = 2402 + k MHz, k = 0,...,78
```

Note:

f k is the operating frequency (MHz);

is the operating channel.

Modulation Configure				
Modulation	Packet	Packet Type	Packet Size	
	1-DH1	4	27	
GFSK	1-DH3	11	183	
	1-DH5	15	339	
π/4 DQPSK	2-DH1	20	54	
	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
	-			

2) Support Cable

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

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 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

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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.

1.10OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

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.

No.	ltem	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	± 4.9 dB
5	Radiated emission 1GHz-18GHz	± 4.8 dB
6	Radiated emission 18GHz-26GHz	± 5.1 dB
7	Radiated emission 26GHz-40GHz	± 5.1 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.68 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	2.4 GHz: ± 6.5 x 10-8
12	Transmission Time	± 0.19 %

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)	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 (a)(1)(iii)	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					
	tions: pecification and data (e.g., antenna gain, RF utbo sustemen and the sustemen takes all th							

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	Cal. Due date			
\boxtimes	3m SAC	ETS-LINDGREN	3M	3M Euroshiedpn- CT001270-13 17		10-Nov-2026			
X	Receiver	R&S	ESIB26	100114	27-Oct-2023	26-Oct-2024			
\boxtimes	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	14-Apr-2023	13-Apr-2024			
\boxtimes	Loop Antenna	ETS-LINDGREN	6502	00202525	30-Oct-2023	29-Oct-2024			
\boxtimes	Broadband Antenna	ETS-LINDGREN	3142E	00201566	30-Oct-2023	29-Oct-2024			
\boxtimes	6dB Attenuator	Talent	RA6A5-N- 18	18103001	30-Oct-2023	29-Oct-2024			
\boxtimes	Preamplifier	HP	8447F	2805A02960	31-Oct-2023	30-Oct-2024			
×	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	16-Apr-2023	15-Apr-2025			
\boxtimes	Pre-amplifier	ETS-Lindgren	00118385	00201874	31-Oct-2023	30-Oct-2024			
×	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	30-Oct-2023	29-Oct-2024			
\boxtimes	Pre-amplifier	ETS-Lindgren	00118384	00202652	30-Oct-2023	29-Oct-2024			
	Band Reject Filter (2400MHz~2500MHz)	Micro-Tronics	BRM50702	G248	27-Oct-2023	26-Oct-2024			
\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 date					
\boxtimes	Receiver	R&S	ESR7	101181	27-Oct-2023	26-Oct-2024					
\boxtimes	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	27-Oct-2023	26-Oct-2024					
\boxtimes	LISN	R&S	ESH2-Z5	860014/024	27-Oct-2023	26-Oct-2024					
	LISN	ETS-Lindgren	3816/2SH	00201088	27-Oct-2023	26-Oct-2024					
\boxtimes	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1							

	RF Conducted Test Equipment List									
Used	Equipment	Manufacturer Model N		Serial Number	Cal. date	Cal. Due date				
\boxtimes	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	14-Apr-2023	13-Apr-2024				
	EXA Spectrum Analyzer	KEYSIGHT	N9020A	MY51286807	27-Oct-2023	26-Oct-2024				
\boxtimes	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	27-Oct-2023	26-Oct-2024				

Shenzhen UnionTrust Quality and Technology Co., Ltd.

4. TEST CONFIGURATION 4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests								
Test Condition	Ambient								
Test Condition	Temperature (°C)	Voltage(V)	Relative Humidity (%)						
NT/NV	+15 to +35	3.85	20 to 75						
Remark: 1) NV: Normal Voltage; NT: Normal Temperature									

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
AC Power Line Conducted Emission	22.0	58.1	100.2	S202402052722-ZJA03/ 6	Linson Xie
Conducted Peak Output Power					
20 dB Bandwidth					
Carrier Frequencies Separation	23.4	57.9	100.4	S202402052722-ZJA06/	Allen Zhou
Number of Hopping Channel				6	
Dwell Time					
Conducted Out of Band Emission					
Radiated Emissions	22.9	58.2	100.4	S202402052722-ZJA03/	Fire Huo
Band Edge Measurement	22.9	00.2	100.4	6	File Huo

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists				
WOUE		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 MHz	2441 MHz	2480 MHz		
8DPSK	2402 MH= to 2480 MH=	Channel 0	Channel 39	Channel 78		
(DH1, DH3, DH5)	2402 MHz to 2480 MHz	2402 MHz	2441 MHz	2480 MHz		

4.3 EUT TEST STATUS

Type of Modulation	Tx Function	Description
		1. Keep the EUT in continuously transmitting with Modulation
GFSK/π/4DQPSK/ 8DPSK	1Tx	test single 2. Keep the EUT in continuously transmitting with Modulation
ODFSK		test Hopping Frequency.

Power Setting (Provided by the customer)

Power Setting: 4

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Test Software (Provided by the customer)

Engineering mode: *#*#83781#*#*

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)	1.52	4.72	5.41	-0.51	2.60	3.29	-0.53	2.59	3.26	

4.4.2 Worst-case data packets

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

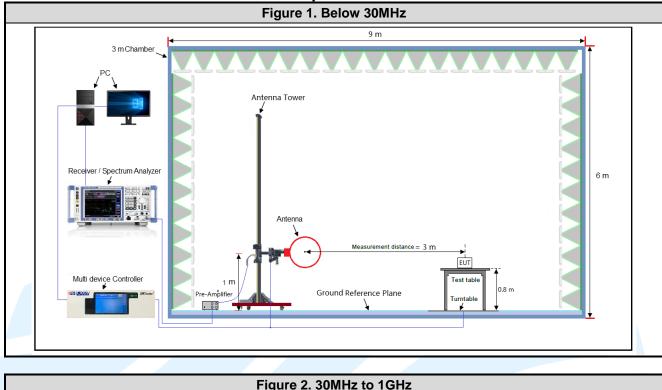
4.4.3 Tested channel detail

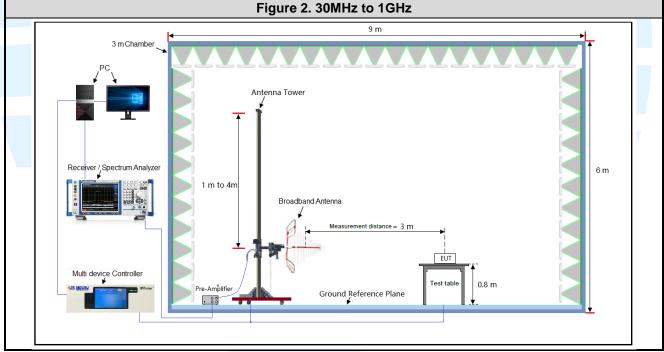
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data packets and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Type of Modulation		GFSK		Π	/4DQPS	K		8DPSK	
Data Packets	1-DH	1-DH	1-DH	2-DH	2-DH	2-DH	3-DH	3-DH	3-DH
	1	3	5	1	3	5	1	3	5
Available Channel					0 to 78				
Test Item					d choose		<u> </u>		
AC Power Line Conducted			Freq	uency Ho	opping Ch	nannel 0	to 78		
Emission					Link				
Conducted Peak Output				Chan	nel 0 & 39	878			
Power			\boxtimes			\boxtimes			\boxtimes
20 dB Bandwidth				Chanı	nel 0 & 39	8 78			
20 dB Bandwidth			\boxtimes			\boxtimes			X
Carrier Frequencies	Frequency Hopping Channel 0 to 78								
Separation			\boxtimes			\boxtimes			\boxtimes
	Frequency Hopping Channel 0 to 78								
Number of Hopping Channel			\boxtimes			\boxtimes			\boxtimes
Durall Time	Channel 39								
Dwell Time	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes
Conducted Out of Band	Channel 0 & 39 & 78								
Emission			\boxtimes			\boxtimes			\boxtimes
				Chanı	nel 0 & 39	8 78			
Radiated Emissions			\boxtimes						
Band Edge Measurements				Cha	annel 0 &	78	1		
(Radiated)			\boxtimes						

4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

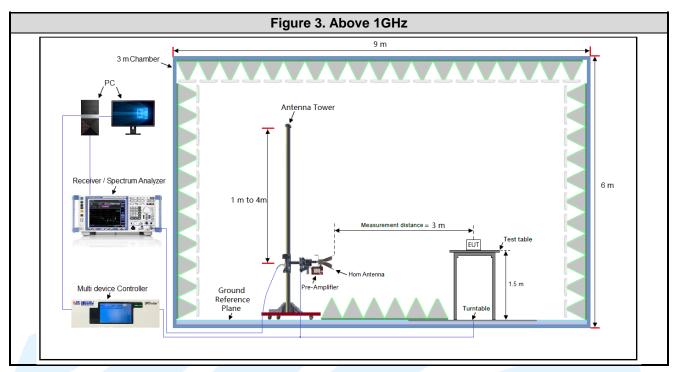




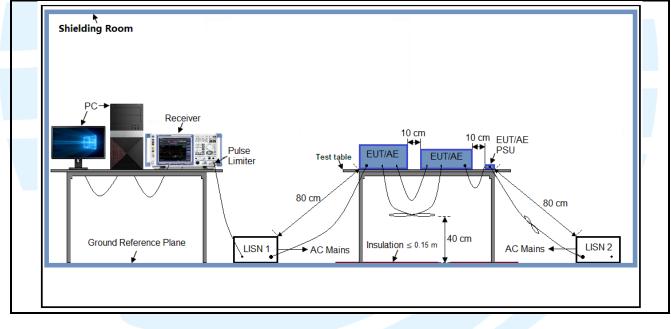
Shenzhen UnionTrust Quality and Technology Co., Ltd.

Page 14 of 50

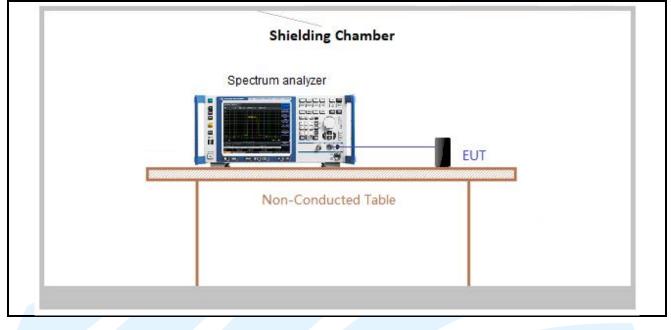
Report No.: 2402189665RFC-2



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 3.85V 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

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

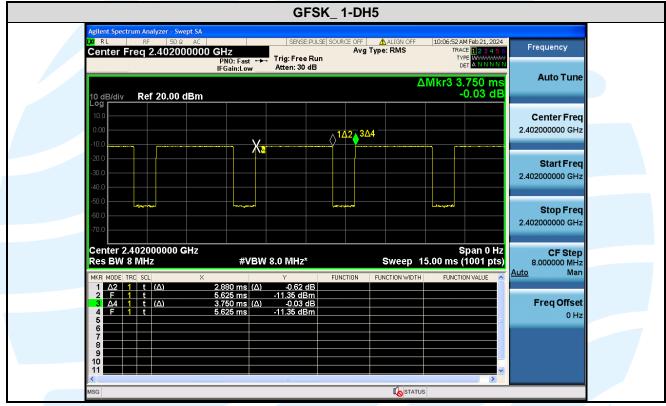
Modulation	Packets	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/T Minimum VBW (kHz)
GFSK	1-DH5	2.880	3.750	0.77	76.80	1.15	0.35

Remark:

1) Duty cycle= On Time/ Period;

Duty Cycle factor = 10 * log(1/ Duty cycle);

The test plots as follows



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 a 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 v05r02Guidance 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 -3.5 dBi.

Page 18 of 50

5.3 CONDUCTED PEAK OUTPUT POWER

Test Requirement: Test Method: Limit: Test Procedure:	FCC 47 CFR Part 15 Subpart C Section15.247 (b)(1) ANSI C63.10-2013 Section 7.8.5 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. 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		

Modulation	Channel		Max. Peak Power		Peak Power Limit	Max. Avg. Power	Result
		(MHz)	(dBm)	(mW)	(dBm)	(dBm)	
	0	2402	7.52	5.6520	20.97	6.45	Pass
GFSK	39	2441	6.64	4.6132	20.97	5.41	Pass
	78	2480	6.34	4.3072	20.97	5.08	Pass
	0	2402	7.94	6.2201	20.97	4.33	Pass
π/4DQPSK	39	2441	7.17	5.2083	20.97	3.29	Pass
	78	2480	6.71	4.6925	20.97	3.10	Pass
8DPSK	0	2402	8.19	6.5842	20.97	4.30	Pass
	39	2441	7.41	5.5030	20.97	3.26	Pass
	78	2480	6.97	4.9785	20.97	3.09	Pass

Note: The antenna gain of -3.5 dBi less than 6dBi maximum permission antenna gain value based on 125 mW peak output power limit.

Page 19 of 50

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:	Link mode				
Test Results:	Please refer to Appendix A				

Uni⊗nTrust

Page 20 of 50

5.5CARRIER FREQUENCIES SEPARATION

Test Requirement: Test Method: Limit: Test Procedure:	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) ANSI C63.10-2013 Section 7.8.2 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. 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. 		
Test Setup: Instruments Used: Test Mode: Test Results:	Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset. Refer to section 4.5.3 for details. Refer to section 3 for details Link mode Please refer to Appendix A		

Page 21 of 50

5.6 NUMBER OF HOPPING CHANNEL

Test Requirement:	FCC 47 CFR Part 15 Subpart C Section 15.247(a)(1)(iii)				
Test Method:	ANSI C63.10-2013 Section 7.8.3				
Limit:	equency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 n-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 Mode:	Link mode				

Test Results:

Please refer to Appendix A

Page 22 of 50

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:				
	ooo aro rononning op oon ann analyzor oorangor				
	 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 Mode:	Link mode				
Test Results:	Please refer to Appendix A				

Page 23 of 50

5.8 CONDUCTED OUT OF BAND EMISSION

.OCONDUCTE	D 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: Test Procedure:	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. 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:
	Oten 4. Measurement Breast due DEE
	 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 ≥ 3 x 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:	Please refer to Appendix A

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	Limit (dBµV/m)	Remark	Measurement
	(microvolt/meter)	(k)		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:
- 1) 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).

- Test the EUT in the lowest channel, middle channel, the Highest channel 2)
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found 3) the Y axis positioning which it is worse case.
- 4) Repeat above procedures until all frequencies measured was complete.

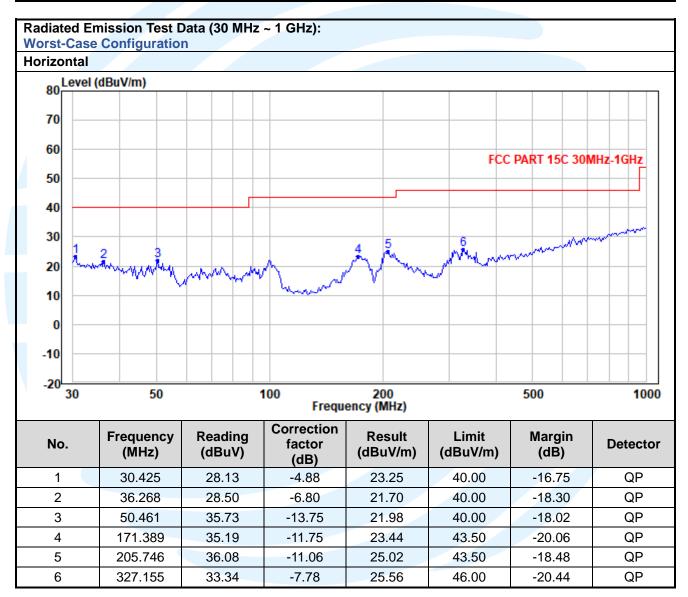
Equipment Used: Refer to section 3 for details. Pass

Test Result:

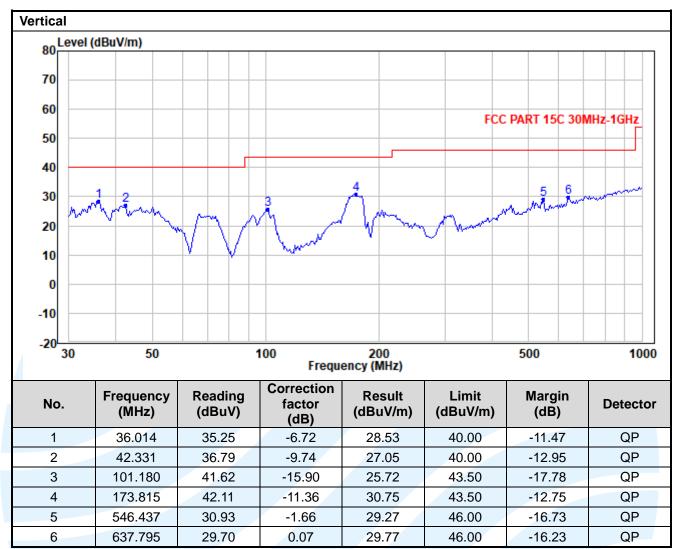
The worst measurement data as follows:

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.



Shenzhen UnionTrust Quality and Technology Co., Ltd.



	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	36.50	-0.86	35.64	74.00	-38.36	Peak	Horizontal	
2	4804.00	25.18	-0.86	24.32	54.00	-29.68	Average	Horizontal	
3	7206.00	38.27	2.86	41.13	74.00	-32.87	Peak	Horizontal	
4	7206.00	25.95	2.86	28.81	54.00	-25.19	Average	Horizontal	
5	4804.00	36.28	-0.86	35.42	74.00	-38.58	Peak	Vertical	
6	4804.00	25.34	-0.86	24.48	54.00	-29.52	Average	Vertical	
7	7206.00	36.96	2.86	39.82	74.00	-34.18	Peak	Vertical	
8	7206.00	25.72	2.86	28.58	54.00	-25.42	Average	Vertical	
Midd	lle Channel:								
1	4880.00	39.29	-0.77	38.52	74.00	-35.48	Peak	Horizontal	
2	4880.00	26.60	-0.77	25.83	54.00	-28.17	Average	Horizontal	
3	7320.00	37.74	2.95	40.69	74.00	-33.31	Peak	Horizontal	
4	7320.00	25.74	2.95	28.69	54.00	-25.31	Average	Horizontal	
5	4880.00	38.59	-0.77	37.82	74.00	-36.18	Peak	Vertical	
6	4880.00	26.46	-0.77	25.69	54.00	-28.31	Average	Vertical	
7	7320.00	37.12	2.95	40.07	74.00	-33.93	Peak	Vertical	
8	7320.00	25.59	2.95	28.54	54.00	-25.46	Average	Vertical	
High	est Channel:								
1	4960.00	38.92	-0.67	38.25	74.00	-35.75	Peak	Horizontal	
2	4960.00	26.76	-0.67	26.09	54.00	-27.91	Average	Horizontal	
3	7440.00	37.39	3.05	40.44	74.00	-33.56	Peak	Horizontal	
4	7440.00	24.76	3.05	27.81	54.00	-26.19	Average	Horizontal	
5	4960.00	38.98	-0.67	38.31	74.00	-35.69	Peak	Vertical	
6	4960.00	27.21	-0.67	26.54	54.00	-27.46	Average	Vertical	
7	7440.00	37.86	3.05	40.91	74.00	-33.09	Peak	Vertical	
8	7440.00	25.09	3.05	28.14	54.00	-25.86	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

5.10 **BAND EDGE MEASUREMENTS (RADIATED)**

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

ANSI C63.10-2013 Section 6.10.5 Test Method:

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		
Above I GHZ	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.

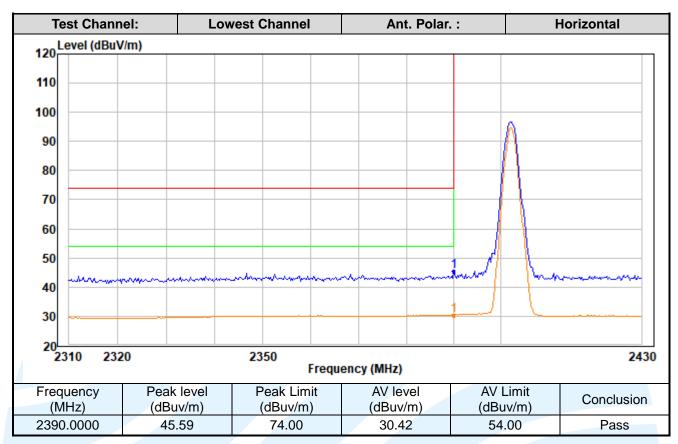
Refer to section 3 for details. Equipment Used: Pass

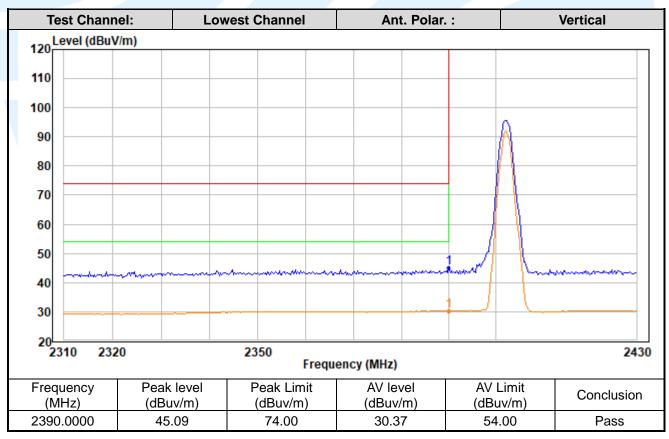
Test Result:

The worst measurement data as follows:

Page 29 of 50

Report No.: 2402189665RFC-2

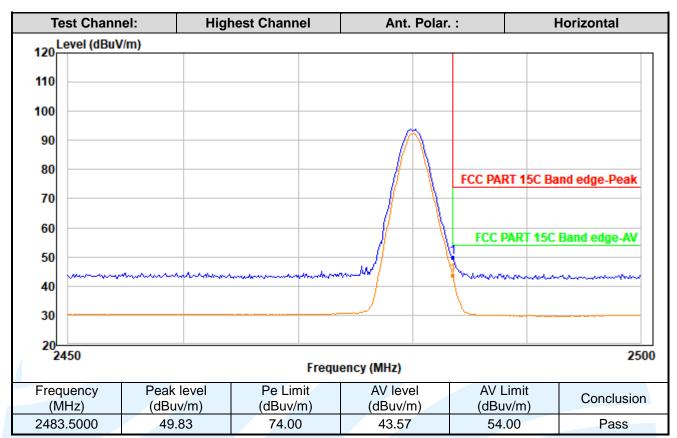


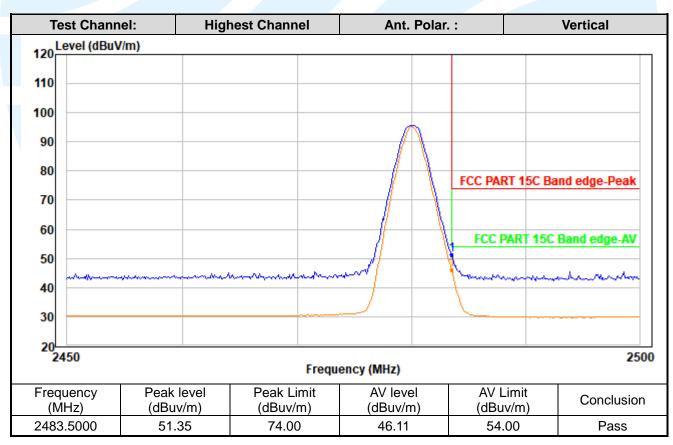


Shenzhen UnionTrust Quality and Technology Co., Ltd.

Page 30 of 50

Report No.: 2402189665RFC-2





Shenzhen UnionTrust Quality and Technology Co., Ltd.

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:

- The lower limit shall apply at the transition frequencies. 1
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz. 2.
- Test Setup: Refer to section 4.5.2 for details.

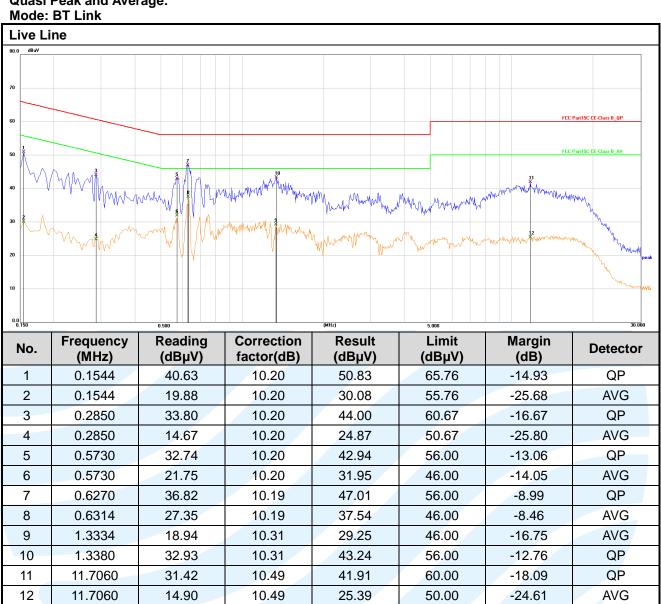
Test Procedures:

Test frequency range :150KHz-30MHz

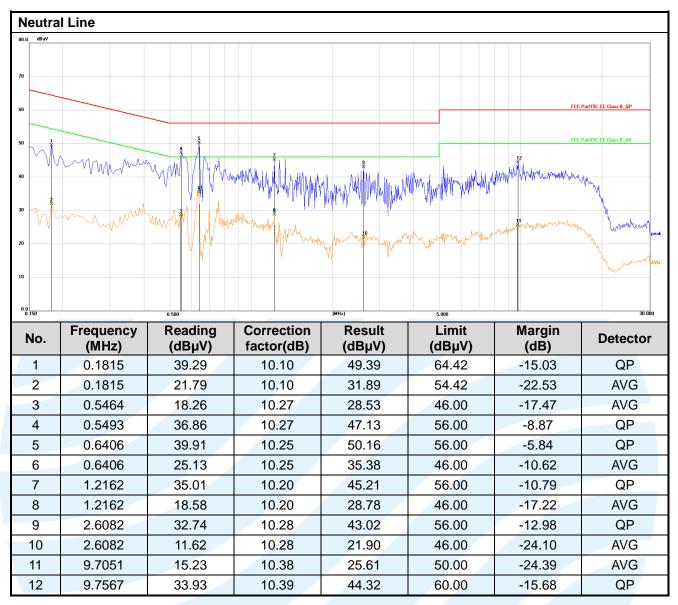
- The mains terminal disturbance voltage test was conducted in a shielded room. 1)
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu$ H + 5Ω linear impedance. The power cables of all other units of the EUT were connected 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.
- The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for 3) floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from 4) 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. Pass

Test Result:



The worst measurement data as follows: Quasi Peak and Average:



Remark:

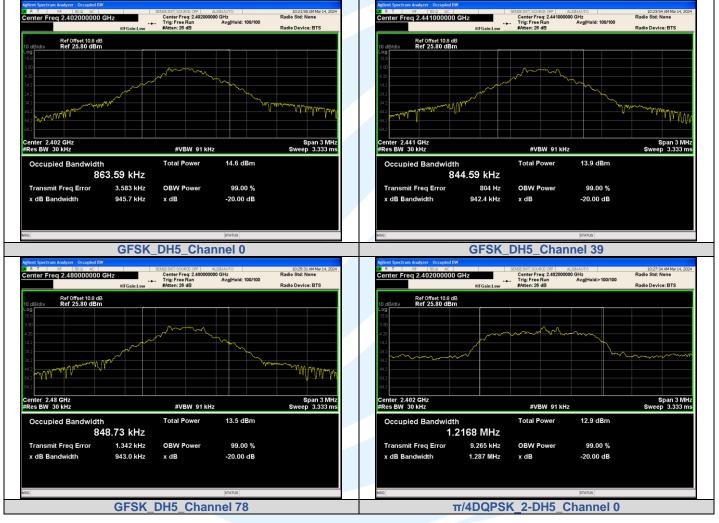
- 1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
- 2. Result = Reading + Correct Factor.
- 3. Margin = Result Limit
- 4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
- 5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.

APPENDIX A RF TEST DATA

A.1 20DB BANDWIDTH

Modulation	Modulation Channel		20 dB Bandwidth (MHz)	
	0	2402 MHz	0.9457	
GFSK	39	2441 MHz	0.9424	
	78	2480 MHz	0.9430	
	0	2402 MHz	1.287	
π/4DQPSK	39	2441 MHz	1.285	
	78	2480 MHz	1.284	
	0	2402 MHz	1.294	
8DPSK	39	2441 MHz	1.297	
	78	2480 MHz	1.300	

Test Graphs



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Page 35 of 50

Report No.: 2402189665RFC-2



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Uni@nTrust Page 36 of 50

Report No.: 2402189665RFC-2

A.2 **CARRIER FREQUENCIES SEPARATION**

Modulation	Packet Left Center (MHz)		Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.835	2440.835	1	0.63	PASS
π/4DQPSK	2-DH5	2440.1653	2441.1761	1.0108	0.858	PASS
8DPSK	3-DH5	2439.8335	2440.8539	1.0204	0.863	PASS

Test Graphs



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 Tel: +86-755-28230888 UTTR-RF-FCCPART15.247-V1.1 Fax: +86-755-28230886 E-mail: info@uttlab.com http://www.uttlab.com

A.3 CONDUCTED OUT OF BAND EMISSION

Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
		0	2400.00	-47.336	-12.72	-34.616	PASS
		0	24350.8	-52.469	-12.72	-39.749	PASS
GFSK	DH5	39	24285.2	-52.821	-13.64	-39.181	PASS
		78	2483.50	-53.012	-13.96	-39.052	PASS
			7440.66	-51.367	-13.96	-37.407	PASS
	2-DH5	0	2400.00	-43.286	-14.21	-29.076	PASS
			24464.4	-53.124	-14.21	-38.914	PASS
π/4DQPSK		39	24955.7	-53.113	-15.52	-37.593	PASS
		78	2483.50	-51.679	-15.33	-36.349	PASS
			24282.1	-52.533	-15.33	-37.203	PASS
		0 -	2400.00	-41.638	-14.16	-27.478	PASS
			24410.7	-52.813	-14.16	-38.653	PASS
8DPSK	3-DH5	39	24359.5	-53.136	-15.62	-37.517	PASS
		78	2483.50	-51.874	-15.23	-36.644	PASS
			24207.2	-52.349	-15.23	-37.119	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5		2400.00	-46.360	-12.51	-33.850	PASS
OI OK	DHS		2483.50	-53.031	-13.95	-39.081	PASS
π/4DQPSK	2-DH5	Hopping	2400.00	-43.846	-14.22	-29.626	PASS
II/4DQF3K	2-005	Hopping	2483.50	-52.787	-15.36	-37.427	PASS
8DPSK		DHE	2400.00	-44.154	-13.89	-30.264	PASS
ODPSK	3-DH5		2483.50	-51.373	-15.41	-35.963	PASS

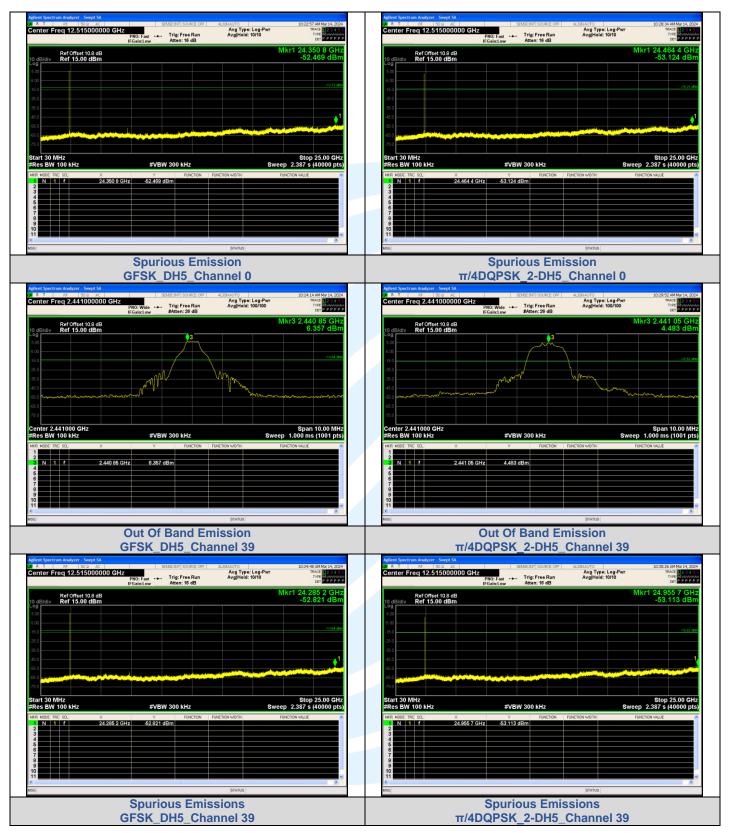
Test Graphs



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Page 38 of 50

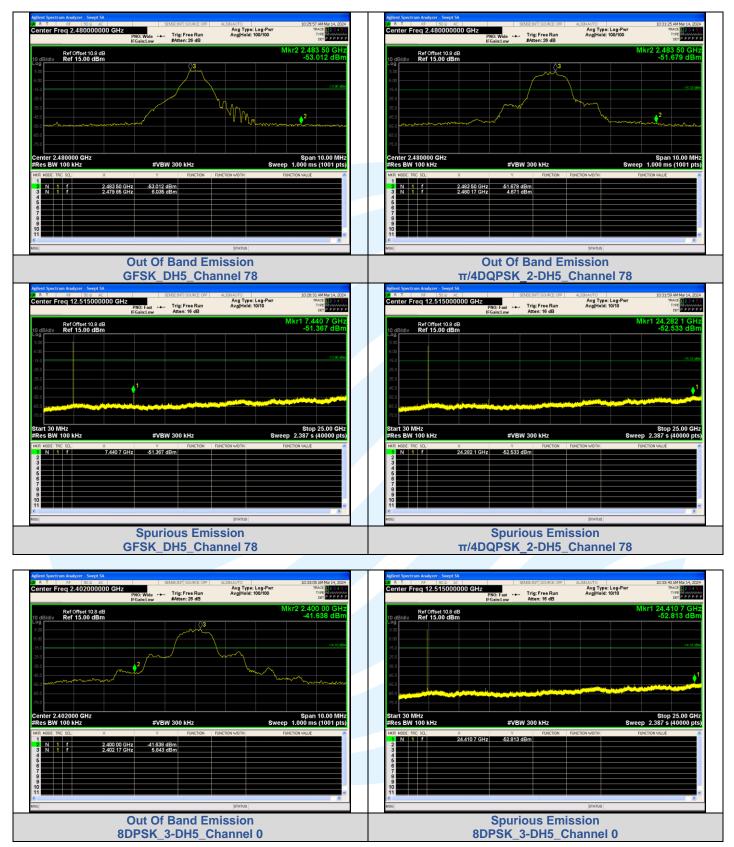
Report No.: 2402189665RFC-2



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Page 39 of 50

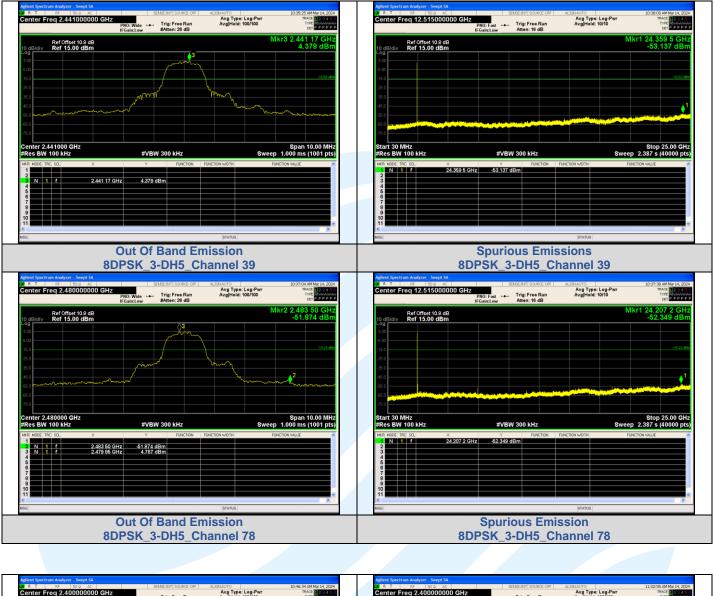
Report No.: 2402189665RFC-2

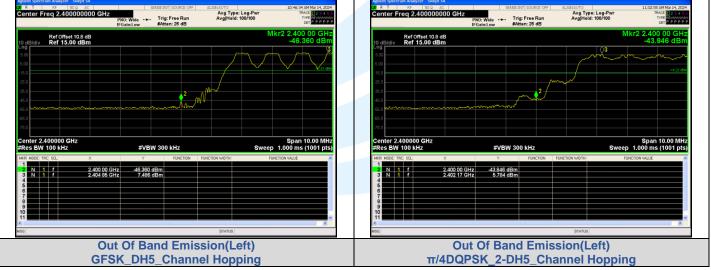


Shenzhen UnionTrust Quality and Technology Co., Ltd.

Page 40 of 50

Report No.: 2402189665RFC-2





Shenzhen UnionTrust Quality and Technology Co., Ltd.