Shenzhen Huatongwei International Inspection Co., Ltd.

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Shayne Zhu Cary Juo

TEST REPORT

Report Reference No.....: TRE1510013002 R/C.....: 92424

FCC ID.....: YAMPT580HPF4

Applicant's name.....: Hytera Communications Co.,Ltd.

Shenzhen China

Manufacturer...... Hytera Communications Co.,Ltd.

Address...... HYT Tower, Hi-Tech Industrial Park North, Nanshan District,

Shenzhen China

Test item description: TETRA TERMINAL

Trade Mark Hytera

Model/Type reference...... PT580H Plus F4

Listed Model(s) -

Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample...... Oct 26, 2015

Date of testing...... Oct 27, 2015- Nov 10, 2015

Date of issue...... Nov 10, 2015

Result.....: PASS

Compiled by

(position+printedname+signature)...: File administrators Shayne Zhu

Supervised by

(position+printedname+signature)....: Project Engineer Cary Luo

Approved by

(position+printedname+signature)....: RF Manager Hans Hu

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Gongming, Shenzhen, China

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1. TEST STANDARDS ANDTEST DESCRIPTION

1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devicese

1.2. Test Description

ReportSection	Test Item	Section in CFR 47	Result
4.1	Antenna Requirement	15.203/15.247 (c)	Pass
4.2	AC Power Line Conducted Emission	15.207	Pass
4.3	Conducted Peak Output Power	15.247 (b)(1)	Pass
4.4	20dB Occupied Bandwidth	15.247 (a)(1)	Pass
4.5	Carrier Frequencies Separation	15.247 (a)(1)	Pass
4.6	Hopping Channel Number	15.247 (a)(1)	Pass
4.7	Dwell Time	15.247 (a)(1)	Pass
4.8	Pseudorandom Frequency Hopping Sequence	15.247(b)(4)&TCB Exclusion List (7 July 2002)	Pass
4.9	Restricted band	15.247(d)/15.205	Pass
4.10/4.11	Radiated Emission	15.247(d)/15.209	Pass

Remark: The measurement uncertainty is not included in the test result.

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2. **SUMMARY**

2.1. Client Information

Applicant:	Hytera Communications Co.,Ltd.
Address:	HYT Tower, Hi-Tech Industrial Park North, Nanshan District, Shenzhen China
Manufacturer:	Hytera Communications Co.,Ltd.
Address:	HYT Tower, Hi-Tech Industrial Park North, Nanshan District, Shenzhen China

2.2. Product Description

Name of EUT	TETRA TERMINAL	
Trade Mark:	Hytera	
Model No.:	PT580H Plus F4	
Listed Model(s):		
Power supply:	DC 7.4V From internal battery	
Battery information:	Model:BL1806 DC7.4V,1800mAh/13.3Wh	Model:BL2505 DC7.4V,2500mAh/18.5Wh
Charger information:	Model:CH10A07 Input: DC12V,1000mA Output:DC8.4V, 1000mA	Model:CH10A05 Input:DC12V,2.0A Output:DC8.4V,1000mA
Adapter information:	Model:HKA01212010-3F Input:100-240Va.c.,50/60Hz,0.5A Output:12Vd.c.,1.0A	
Bluetooth		
Version:	Supported BT3.0+EDR	
Modulation:	GFSK, π/4DQPSK, 8DPSK	
Operation frequency:	2402MHz~2480MHz	
Channel number:	79	
Channel separation:	1MHz	
Antenna type:	Internal Antenna	
Antenna gain:	0.0 dBi	

2.3. Operation state

◆ Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Channel	Frequency (MHz)
0	2402
1	2403
i i	i:
39	2441
i i	i i
77	2479
78	2480

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♦ Test mode

For RF test items:

the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions:

the EUT was set to connect with the Bluetooth under large package sizes transmission.

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- - supplied by the lab

	11 /		
0	Power Cable	Length (m):	1
		Shield :	1
		Detachable :	1
0	Multimeter	Manufacturer :	1
		Model No. :	1

2.5. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China Phana: 86, 755, 26748010, Fav: 86, 755, 26748080

Phone: 86-755-26748019 Fax: 86-755-26748089

3.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories

(identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for tec hnical 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. Valid time is until December 31, 2016.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FC C is maintained in our files. Registration 317478, Renewal date Jul. 18, 2014, valid time is until Jul. 18, 2017.

IC-Registration No.: 5377A&5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on Dec.03, 2014, valid time is until Dec.03, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Aust ralian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-

anechoic chamber (12.2m×7.95m×6.7m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 29, 2015.

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. h as been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the D NV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

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3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
lative Humidity:	30~60 %
Air Pressure:	950~1050mba

3.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1"and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongweilaboratory is reported:

Test Items	MeasurementUncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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3.5. Equipments Used during the Test

Cond	Conducted Emission (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal	
1	Artificial Mains	Rohde&Schwarz	ESH2-Z5	100028	2015/11/02	
2	EMI Test Receiver	Rohde&Schwarz	ESCI3	100038	2015/11/02	
3	Pulse Limiter	Rohde&Schwarz	ESHSZ2	100044	2015/11/02	
4	EMI Test Software	Rohde&Schwarz	ES-K1 V1.71	N/A	N/A	

Radia	Radiated Emission				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2015/11/02
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2015/11/02
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	2015/11/02
8	Amplifer	Sonoma	310N	E009-13	2015/11/02
9	JS amplifer	Rohde&Schwarz	JS4-00101800- 28-5A	F201504	2015/11/02
10	High pass filter	Compliance Direction systems	BSU-6	34202	2015/11/02
11	HORNANTENNA	ShwarzBeck	9120D	1012	2015/11/02
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2015/11/02
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2015/11/02
14	TURNTABLE	MATURO	TT2.0		N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P		N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2015/11/02
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2015/11/02

Maxin	Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF					
Emiss	Emission / Spurious RF Conducted Emission					
Item	Item Test Equipment Manufacturer Model No. Serial No. Last Cal					
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2015/11/02	

The Cal.Interval was one year

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4. TEST CONDITIONS AND RESULTS

4.1. Antenna requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

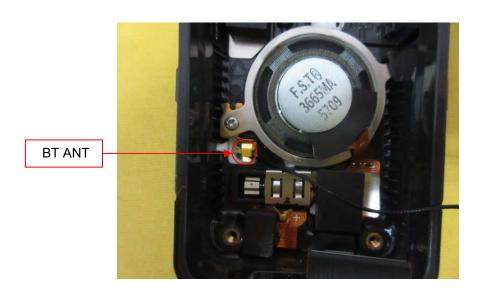
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

The antenna is integralantenna, the best case gain of the antenna is 0.0dBi



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4.2. Conducted Emission (AC Main)

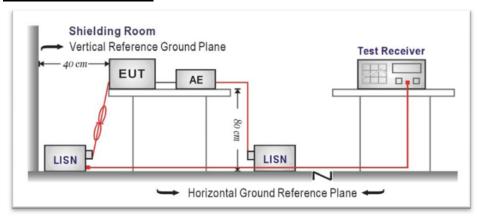
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguency range (MHz)	Limit (dBuV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

- The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedancestabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for themeasuring equipment.
- 4. The peripheral devices are also connected to the main power through aLISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were foldedback and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHzusing a receiver bandwidth of 9 kHz.

TEST RESULTS

Note:

We tested Battery Model:BL1608 and BL2505, Charger Model CH10A05 and CH10A07; recorded the Battery Model:BL2505 and Charger Model CH10A07 at worst case.

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Test mode:AC 120V	BT	Polarization	L

Level [dBμV]					
80					
70					
60		- -	1 1 1 1	<u> </u>	
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150k 300k 400k 600k 800k 1M	2M	3M 4M 5M	I 6M 8M 10M	201	и 30M
	Frequency [F		OW OW TOW	201	VI JUIVI
x x x MES GM0306529 fin					
	Limit	Margin	Detector	Line	PE
MHz dBμV dB	dΒμV	dB			
0.154000 48.20 10.2	66	17.6	QP	T 1	
			Q.F	$_{ m L1}$	GND
0.158000 48.80 10.2	66	16.8	QP	L1 L1	GND GND
	66 63				
0.158000 48.80 10.2		16.8	QP	L1	GND
0.158000 48.80 10.2 0.226000 39.90 10.2 0.294000 38.80 10.2 0.406000 40.30 10.2	63 60 58	16.8 22.7 21.6 17.4	QP QP QP QP	L1 L1 L1 L1	GND GND
0.158000 48.80 10.2 0.226000 39.90 10.2 0.294000 38.80 10.2	63 60	16.8 22.7 21.6	QP QP QP	L1 L1 L1	GND GND GND
0.158000 48.80 10.2 0.226000 39.90 10.2 0.294000 38.80 10.2 0.406000 40.30 10.2 0.542000 42.30 10.2	63 60 58	16.8 22.7 21.6 17.4	QP QP QP QP	L1 L1 L1 L1	GND GND GND GND
0.158000 48.80 10.2 0.226000 39.90 10.2 0.294000 38.80 10.2 0.406000 40.30 10.2 0.542000 42.30 10.2	63 60 58 56	16.8 22.7 21.6 17.4 13.7	QP QP QP QP QP	L1 L1 L1 L1	GND GND GND GND GND
0.158000 48.80 10.2 0.226000 39.90 10.2 0.294000 38.80 10.2 0.406000 40.30 10.2 0.542000 42.30 10.2 Frequency Level Transd	63 60 58 56 Limit	16.8 22.7 21.6 17.4 13.7 Margin	QP QP QP QP QP	L1 L1 L1 L1	GND GND GND GND GND
0.158000 48.80 10.2 0.226000 39.90 10.2 0.294000 38.80 10.2 0.406000 40.30 10.2 0.542000 42.30 10.2 Frequency Level Transd MHz dBμV dB	63 60 58 56 Limit dBµV	16.8 22.7 21.6 17.4 13.7 Margin dB	QP QP QP QP QP QP Detector	L1 L1 L1 L1 L1 Line	GND GND GND GND GND

47

46

46

13.2 AV

8.4

9.6 AV

ΑV

L1

L1

L1

GND

GND

GND

0.434000

0.530000

0.534000

34.00

36.40

37.60

10.2

10.2

10.2

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Test mode: AC 120V BT Polarization N

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150k	3	00k 40	00k	600	k 80	0k 1	M	2M uency [3M	41	M 5	M 6	M	8M	10M	20M	30

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000 0.334000 0.562000 0.990000 2.178000	47.90 34.70 40.80 35.20 31.60	10.2 10.2 10.2 10.2 10.2	66 59 56 56	18.1 24.7 15.2 20.8 24.4	QP QP QP QP QP	N N N N	GND GND GND GND GND
2.866000	33.90	10.3	56	22.1	QP	N	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
MHz 0.322000	dBμV 32.80	dB 10.2	dBμV 50	dB 16.9	AV	N	GND
MHz 0.322000 0.326000	dBμV 32.80 32.80	dB 10.2 10.2	dBμV 50 50	dB 16.9 16.8			
MHz 0.322000	dBμV 32.80	dB 10.2	dBμV 50	dB 16.9	AV	N	GND
MHz 0.322000 0.326000	dBμV 32.80 32.80	dB 10.2 10.2	dBμV 50 50	dB 16.9 16.8	AV AV	N N	GND GND
MHz 0.322000 0.326000 0.554000	dBμV 32.80 32.80 30.70	dB 10.2 10.2 10.2	dBμV 50 50 46	dB 16.9 16.8 15.3	AV AV AV	N N N	GND GND GND

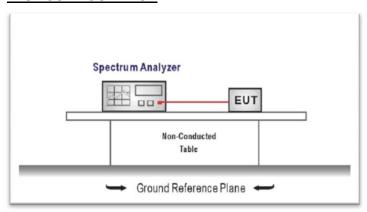
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4.3. Conducted Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



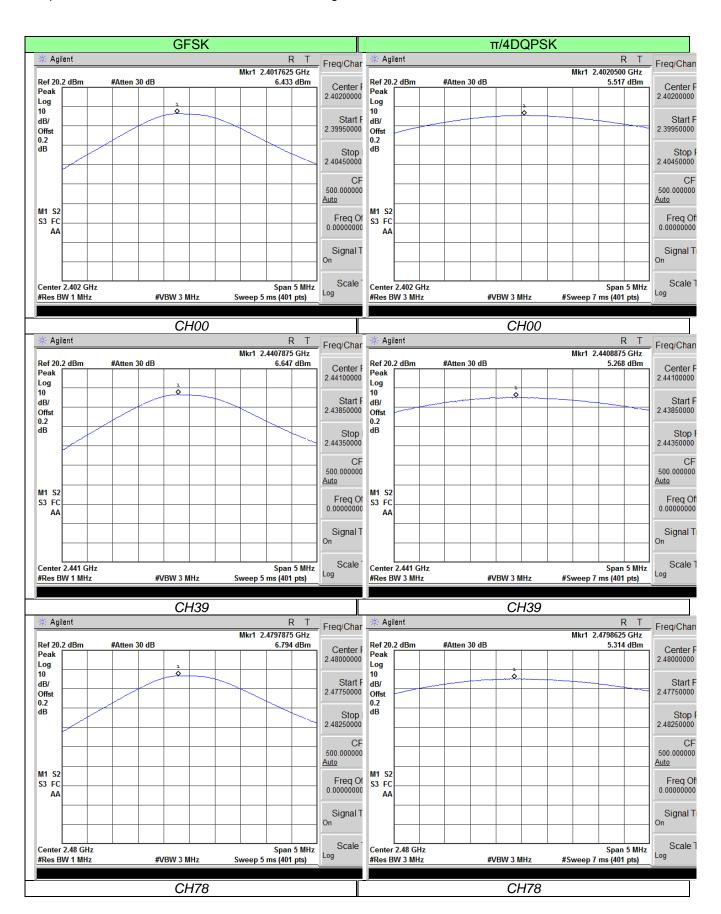
TEST PROCEDURE

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.

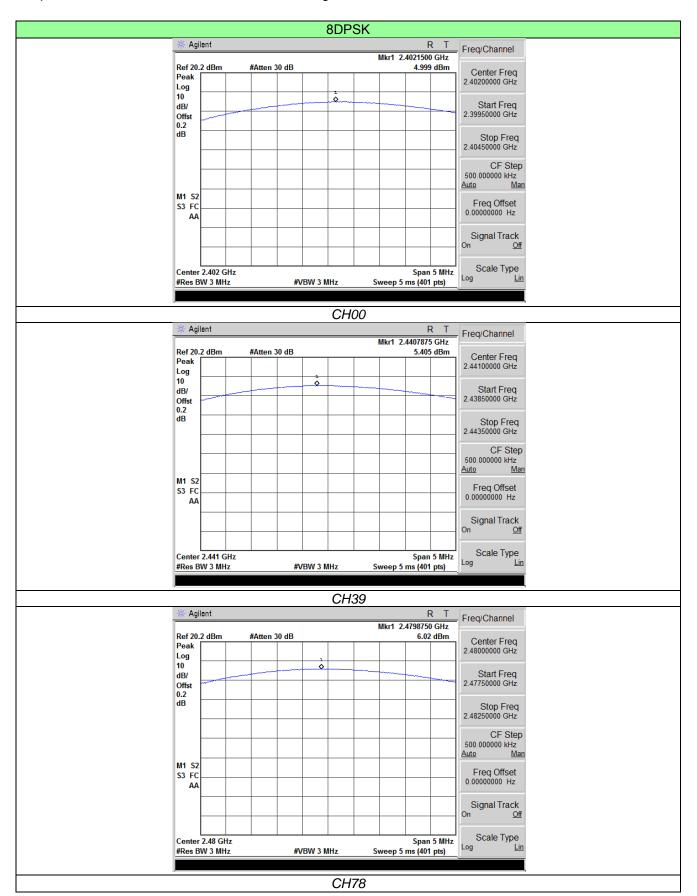
TEST RESULTS

Modulation type	Channel	Output power (dBm)	Limit (dBm)	Result
	00	6.43		
GFSK	39	6.65	30.00	Pass
	78	6.79		
	00	5.52		
π/4DQPSK	39	5.27	21.00	Pass
	78	5.31		
	00	5.00		
8DPSK	39	5.41	21.00	Pass
	78	6.02		

Test plot as follows:



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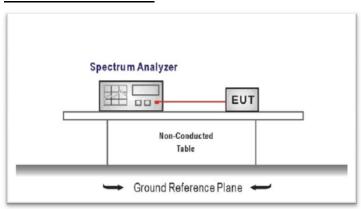
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4.4. 20dB Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



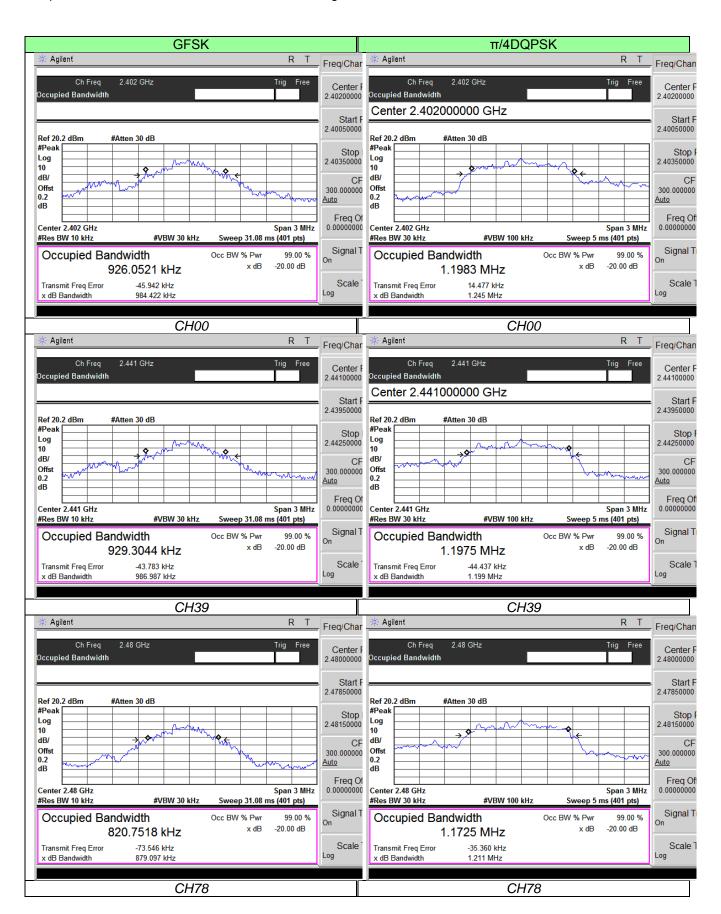
TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- 2. The bandwidth of the fundamental frequency was measured by spectrum analyzer withRBW≥1% of the 20 dB bandwidthand VBW≥RBW.
- 3. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

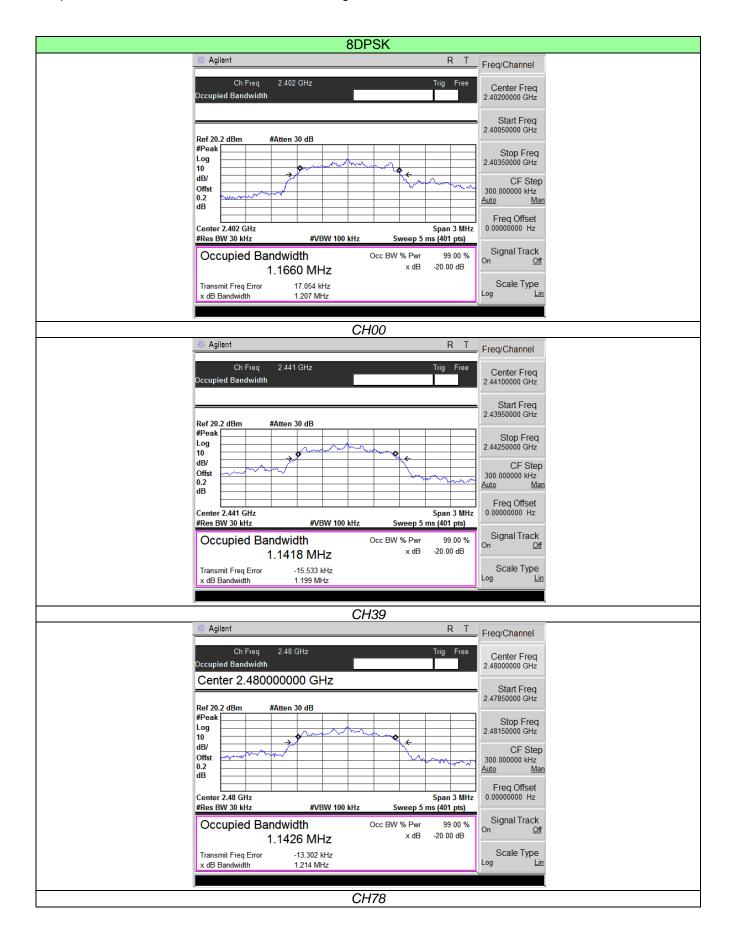
TEST RESULTS

Modulation type	Channel	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	Result
00		0.984	0.926		
GFSK	39	0.987	0.929	/	Pass
	78	0.879	0.820		
	00	1.245	1.198		
π/4DQPSK	39	1.199	1.198	/	Pass
	78	1.211	1.173		
	00	1.207	1.166		
8DPSK	39	1.199	1.142	/	Pass
	78	1.214	1.143		

Test plot as follows:



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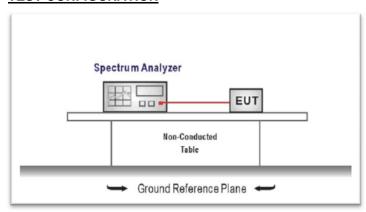
4.5. Carrier Frequencies Separation

LIMIT

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

frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

TEST CONFIGURATION



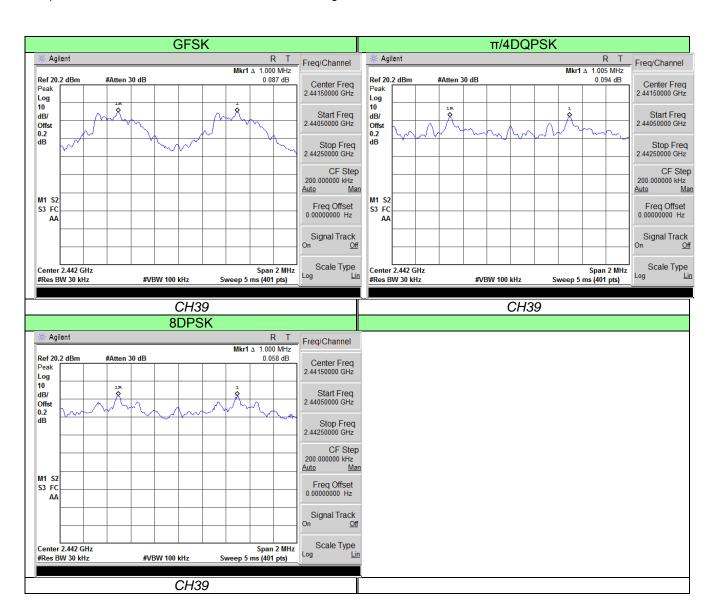
TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- 2. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=30 KHz and VBW=100KHz.

TEST RESULTS

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
GFSK	39	1.000	0.658	Pass
π/4DQPSK	39	1.005	0.830	Pass
8DPSK	39	1.000	0.809	Pass

Test plot as follows:



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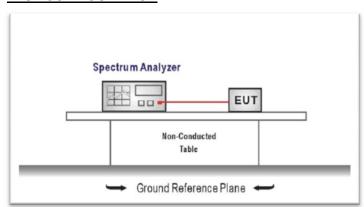
4.6. Hopping Channel Number

LIMIT

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

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

TEST CONFIGURATION



TEST PROCEDURE

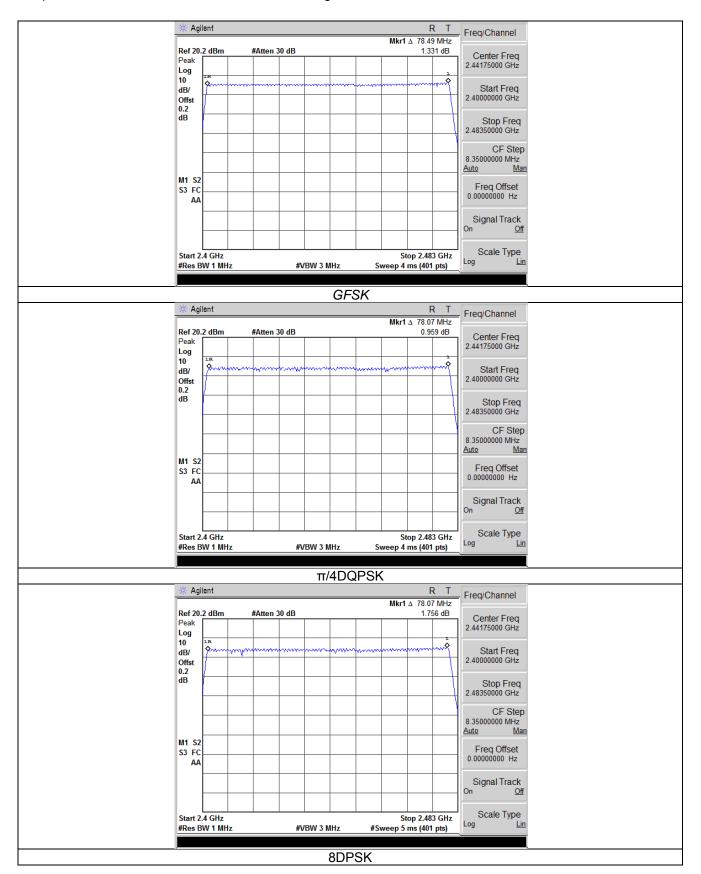
- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- 2. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1MHz and VBW=3MHz.

TEST RESULTS

Modulation type	Channel number	Limit (MHz)	Result
GFSK	79		
π/4DQPSK	79	15	Pass
8DPSK	79		

Test plot as follows:

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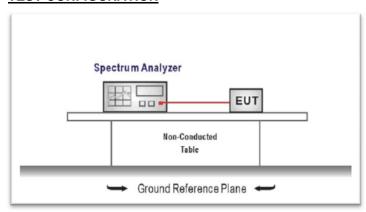
4.7. Dwell Time

LIMIT

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

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a pe-riod of 0.4 seconds multiplied by the number of hopping channels employed.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- Set center frequency of spectrum analyzer=operating frequency with RBW=1MHz and VBW=1MHz,Span=0Hz.

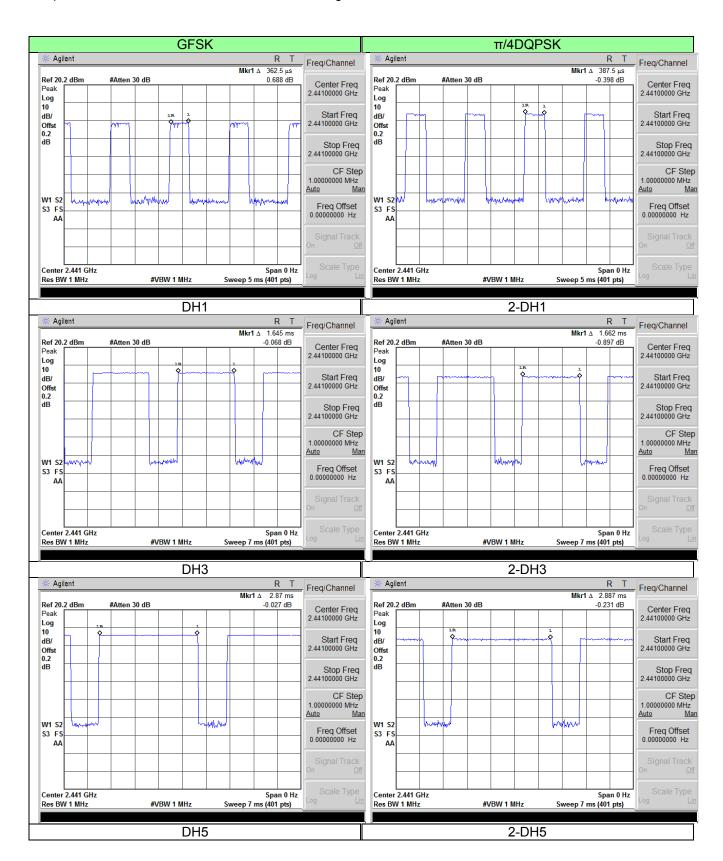
TEST RESULTS

Modulation type	Channel	Dwell time (Second)	Limit (Second)	Result
	DH1	0.116		
GFSK	DH3	0.263	0.40	Pass
	DH5	0.306		
	2-DH1	0.124		
π/4DQPSK	2-DH3	0.266	0.40	Pass
	2-DH5	0.308		
	3-DH1	0.128		
8DPSK	3-DH3	0.263	0.40	Pass
	3-DH5	0.308		

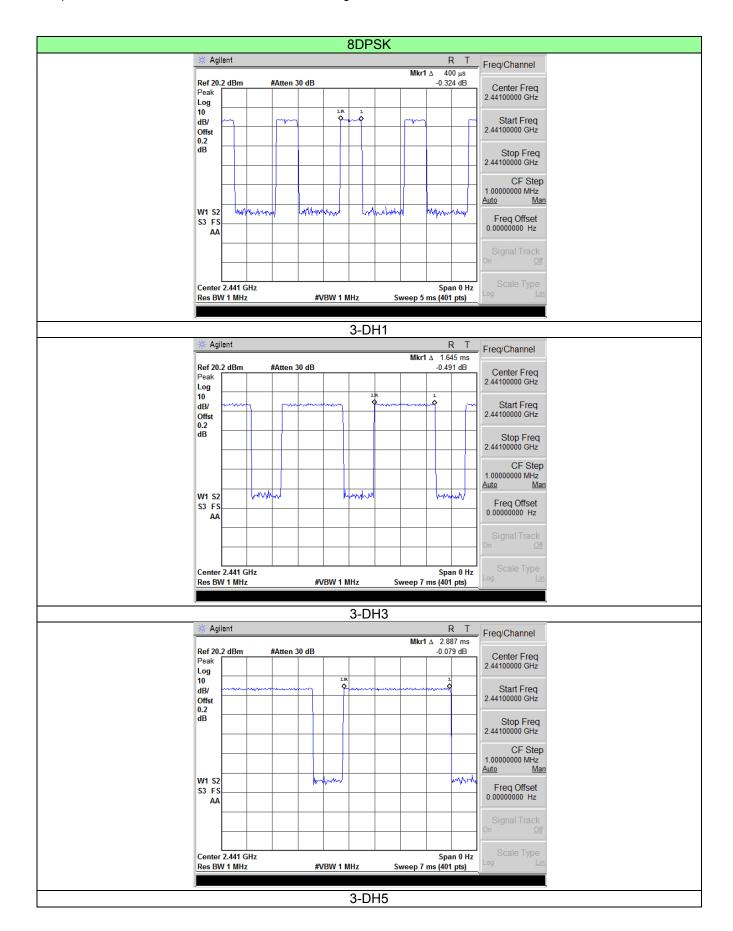
Note:

- 1. We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.
- 2. Dwell time=Pulse time (ms) × $(1600 \div 2 \div 79)$ ×31.6 Second for DH1, 2-DH1, 3-DH1 Dwell time=Pulse time (ms) × $(1600 \div 4 \div 79)$ ×31.6 Second for DH3, 2-DH3, 3-DH3 Dwell time=Pulse time (ms) × $(1600 \div 6 \div 79)$ ×31.6 Second for DH5, 2-DH5, 3-DH5

Test plot as follows:



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4.8. Pseudorandom Frequency Hopping Sequence

LIMIT

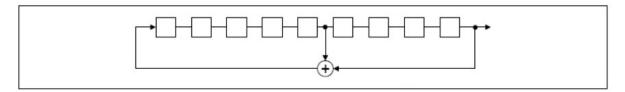
FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

Frequency hopping systems shall have hopping channel carrier fre-quencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Al-ternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier fre-quencies 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo ran-domly ordered list of hopping fre-quencies. Each frequency must be used equally on the average by each trans-mitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their cor-responding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST RESULTS

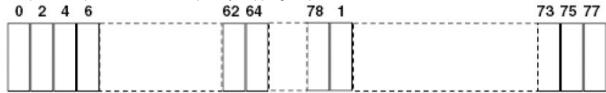
The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the friststage. The sequence begins with the frist one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

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



Linear Feedback Shift Register for Generation of the PRBS sequence

An explame of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

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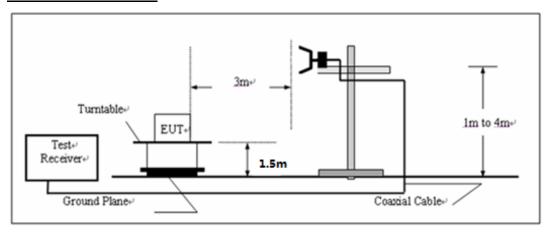
4.9. Restricted band (radiated)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m @3m)	Value	
Above 1GHz	54.00	Average	
Above IGHZ	74.00	Peak	

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow:
 - RBW=1MHz, VBW=3MHz for Peak value
 - RBW=1MHz, VBW=10Hz for Average value.
- 6. The frequency range from 2310MHz to 2483.5MHz harmonic is checked.

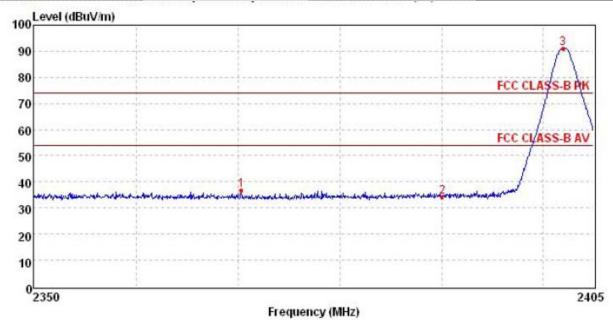
TEST RESULTS

Note:

- 1. Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report.
- 2.We tested Battery Model:BL1608 and BL2505, Charger Model CH10A05 and CH10A07; recorded the Battery Model:BL2505 and Charger Model CH10A07 at worst case.

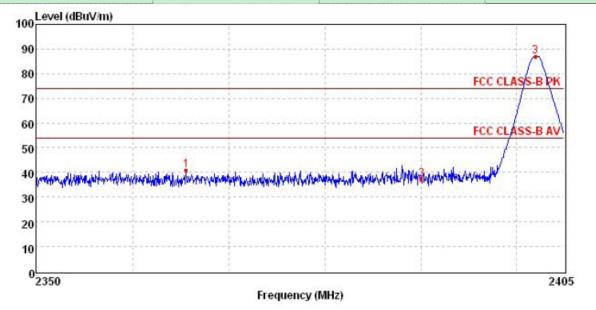
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Worst mode:	GFSK Modulation	Test Channel:	00
Deteccter:	Peak	Polarization:	Horizontal



Mark	Frequency	Reading dBuV/m				Le∨el dBuV/m	Limit dBuV/m	0∨er limit	Remark
1	2370.26		27.48					-37.06	
2	2390.02	37.58	27.53	6.81	37.57	34.35	74.00	-39.65	Peak
2	2402 00	04 16	27 E7	6 92	27 EQ	00 00	74 00	16 00	Doole

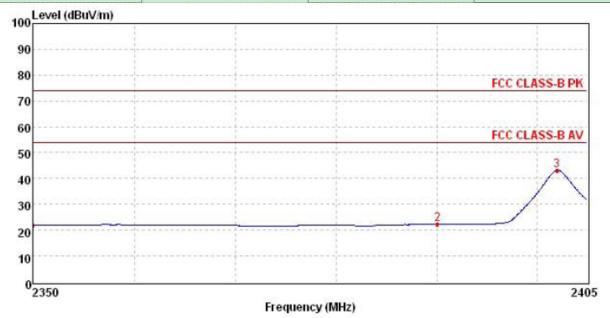
Worst mode:	GFSK Modulation	Test Channel:	00
Deteccter:	Peak	Polarization:	Vertical



Mark	Frequency MHz	Reading dBuV/m				Le∨el dBuV/m	Limit dBuV/m	0∨er limit	Remark	
1	2365.55	44.04	27.46	6.77	37.56	40.71	74.00	-33.29	Peak	
2	2390.02	40.29	27.53	6.81	37.57	37.06	74.00	-36.94	Peak	
3	2402.00	90.07	27.57	6.83	37.58	86.89	74.00	12.89	Peak	

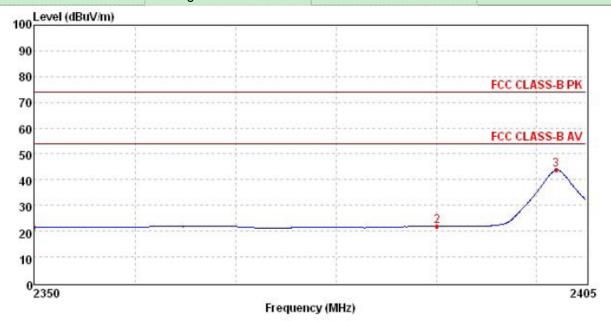
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Worst mode:	GFSK Modulation	Test Channel:	00	
Deteccter:	Average	Polarization:	Horizontal	



Mai	rk	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0∨er	Remark
		MHz	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2350.00	25.39	27.41	6.74	37.55	21.	9954.00	-32.01	Average
1	2	2390.02	25.45	27.53	6.81	37.57	22.	2254.00	-31.78	Average
	3	2402.00	46.28	27.57	6.83	37.58	43.	1054.00	-10.90	Average

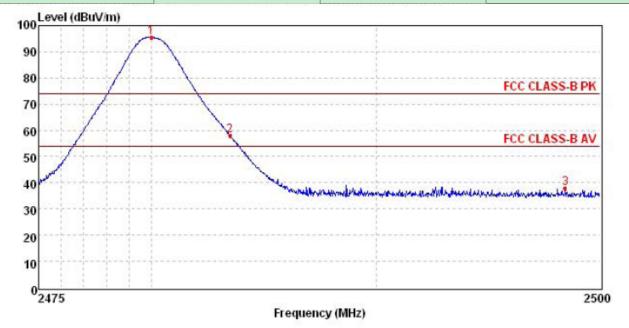
Worst mode:	GFSK Modulation	Test Channel:	00
Deteccter:	Average	Polarization:	Vertical



Mark	Frequency MHz		Antenna dB		Preamp dB	Le∨el dBuV/m	Limit dBuV/m		Remark
1	2350.00	24.95	27.41	6.74	37.55	21.	5554.00	-32.45	Average
2	2390.02	25.11	27.53	6.81	37.57	21.	8854.00	-32.12	Average
3	2402.00	46.94	27.57	6.83	37.58	43.	7654.00	-10.24	Average

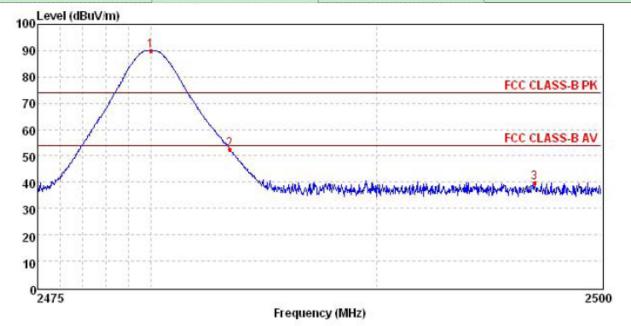
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Worst mode:	GFSK Modulation	Test Channel:	78	
Deteccter:	Peak	Polarization:	Horizontal	



Mark	Frequency	Reading dBuV/m				Le∨el dBuV/m	Limit dBuV/m	0∨er limit	Remark
1	2480.01		27.83					21.42	
2	2483.50	60.87	27.85	6.96	37.65	58.03	74.00	-15.97	Peak
3	2498.44	40.86	27.90	6.97	37.66	38.07	74.00	-35.93	Peak

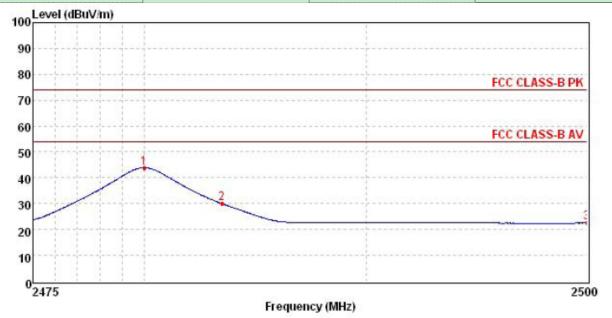
Wors	st mode:	GFSK Modulation	Test Channel:	78	
Dete	eccter:	Peak	Polarization:	Vertical	



Mark	Frequency MHz	Reading dBuV/m				Le∨el dBuV/m	Limit dBuV/m	O∨er limit	Remark
1	2480.01	92.83	27.83	6.94	37.64	89.96	74.00	15.96	Peak
2	2483.50	55.41	27.85	6.96	37.65	52.57	74.00	-21.43	Peak
3	2497.04	42.67	27.90	6.97	37.66	39.88	74.00	-34.12	Peak

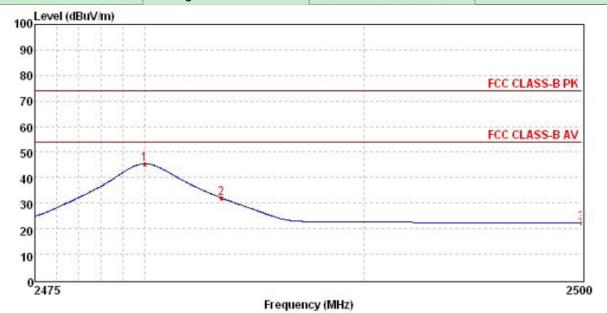
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Worst mode:	rst mode: GFSK Modulation		78
Deteccter:	Average	Polarization:	Horizontal



Mark	Frequency MHz		Antenna dB	Cable dB	Preamp dB	Le∨el dBuV/m	Limit dBuV/m	O∨er limit	Remark
1	2480.01	46.72	27.83	6.94	37.64	43	.8554.00	-10.15	Average
2	2483.50	32.82	27.85	6.96	37.65	29	.9854.00	-24.02	Average
3	2500.00	25.37	27.90	6.98	37.66	22	.5954.00	-31.41	Average

Worst mode:	GFSK Modulation	Test Channel:	78	
Deteccter:	Average	Polarization:	Vertical	



Mark	Frequency MHz		Antenna dB		Preamp dB	Le∨el dBuV/m	Limit dBuV/m	100000000000000000000000000000000000000	Remark
1	2480.01	48.34	27.83	6.94	37.64	45	.4754.00	-8.53	Average
2	2483.50	34.90	27.85	6.96	37.65	32	.0654.00	-21.94	Average
3	2500.00	24.99	27.90	6.98	37.66	22	.2154.00	-31.79	Average

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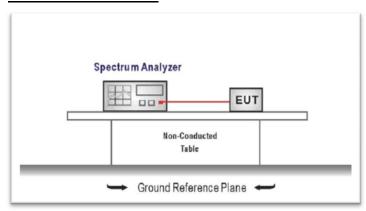
4.10. Bandedge and Spurious Emission (conducted)

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



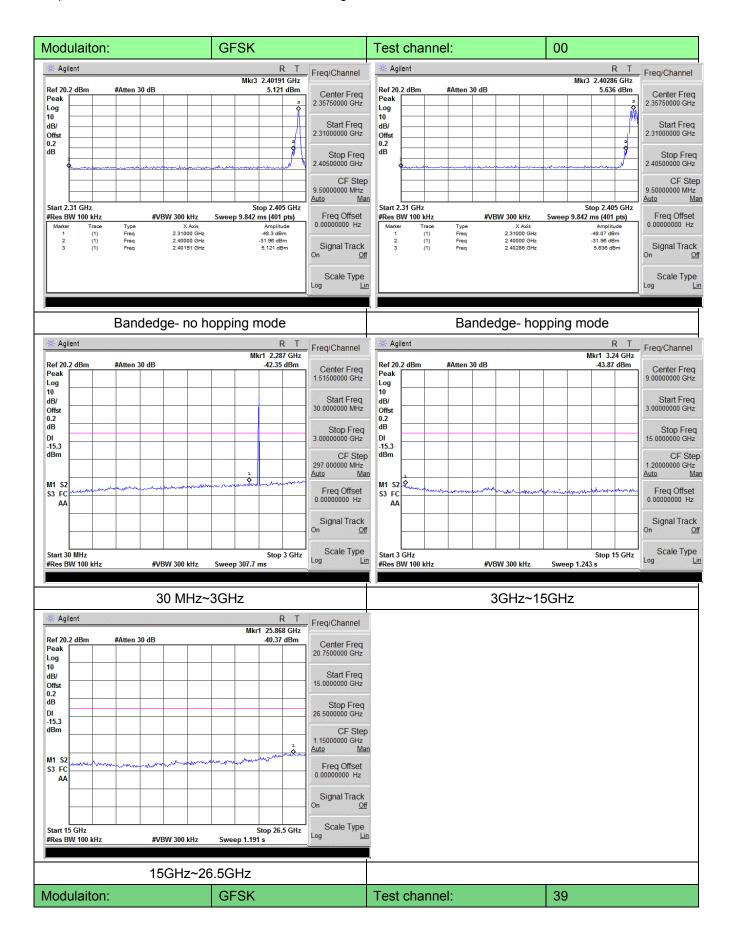
TEST PROCEDURE

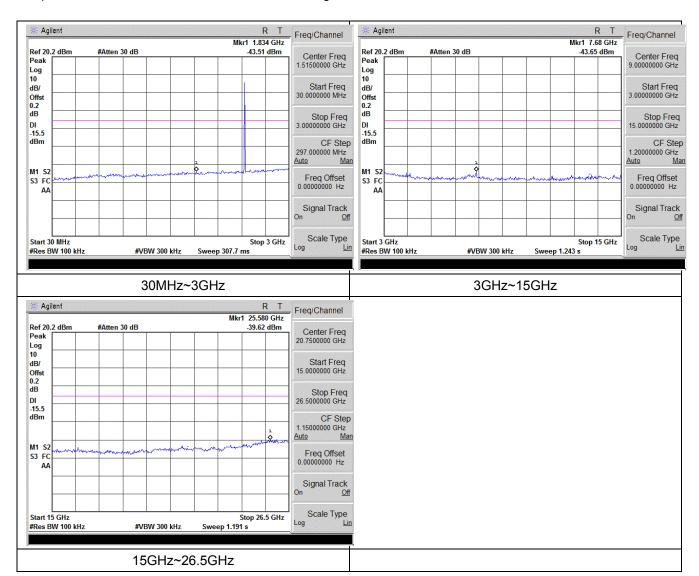
- 1. The transmitter output was connected to the spectrum analyzer through an attenuator.
- 2. Conducted spurious emission the bandwidth of the fundamental frequency was measured by spectrum analyzer withRBW=100 KHz and VBW=300KHz.
- 3. Below -20dB of the highest emission level in operating band.

TEST RESULTS

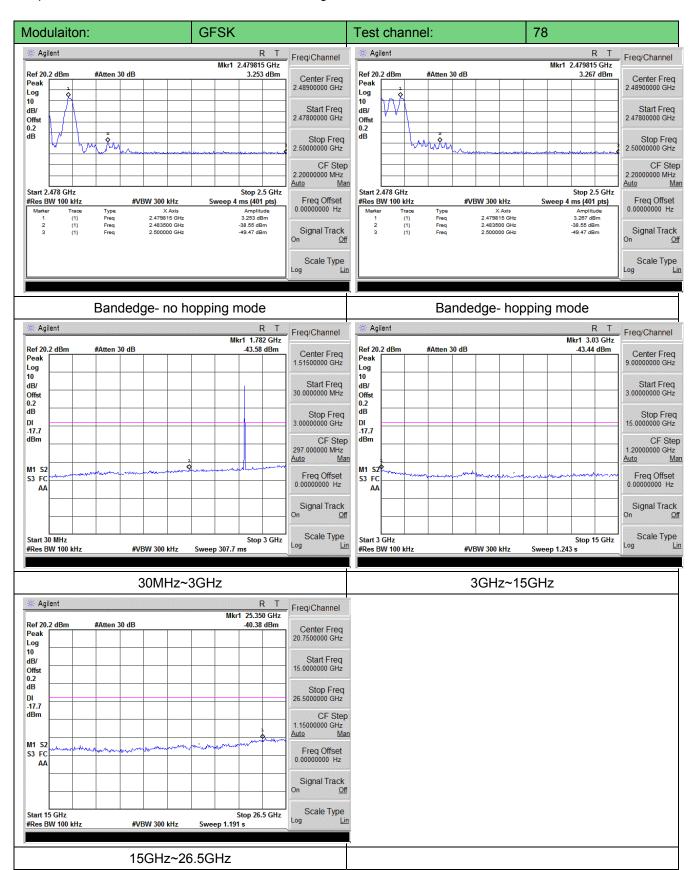
Test plot as follows:

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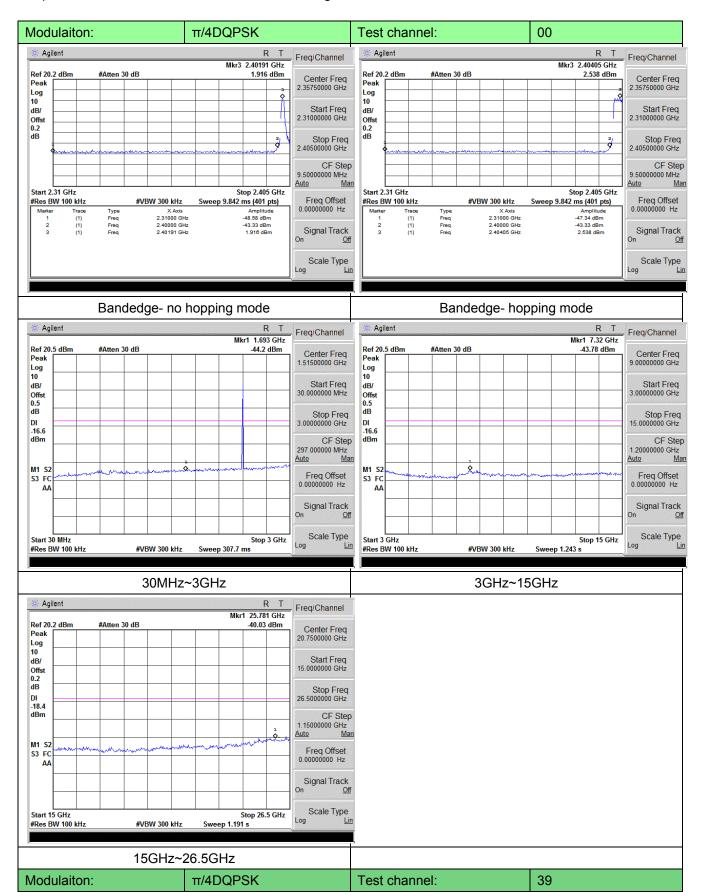


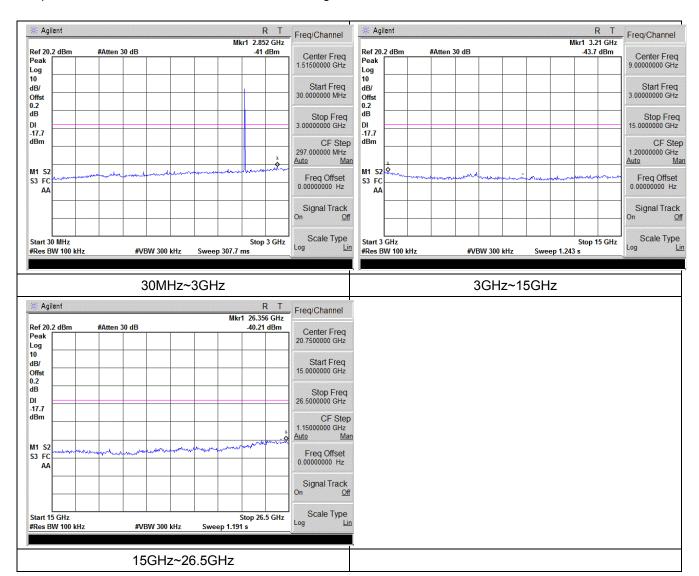


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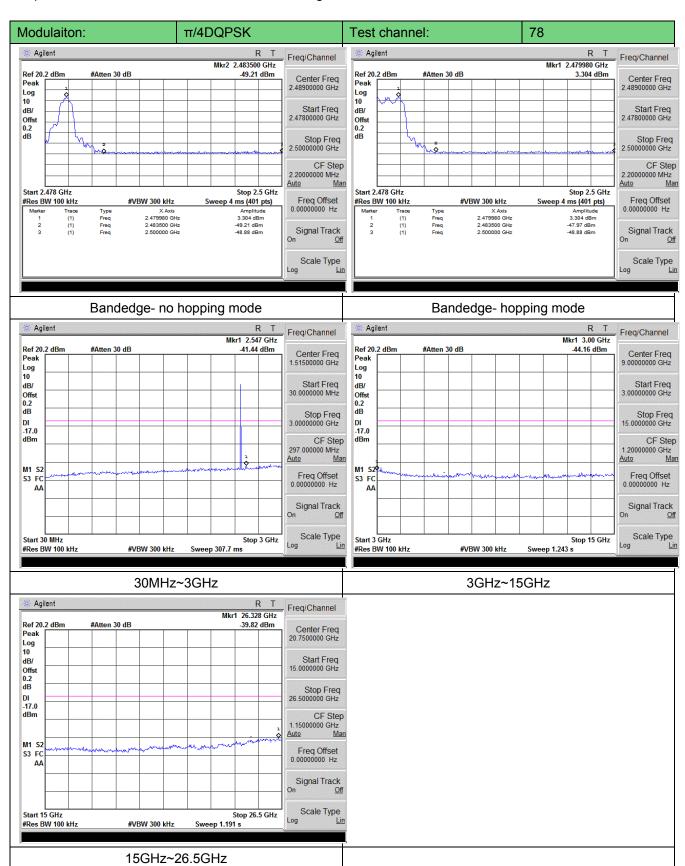


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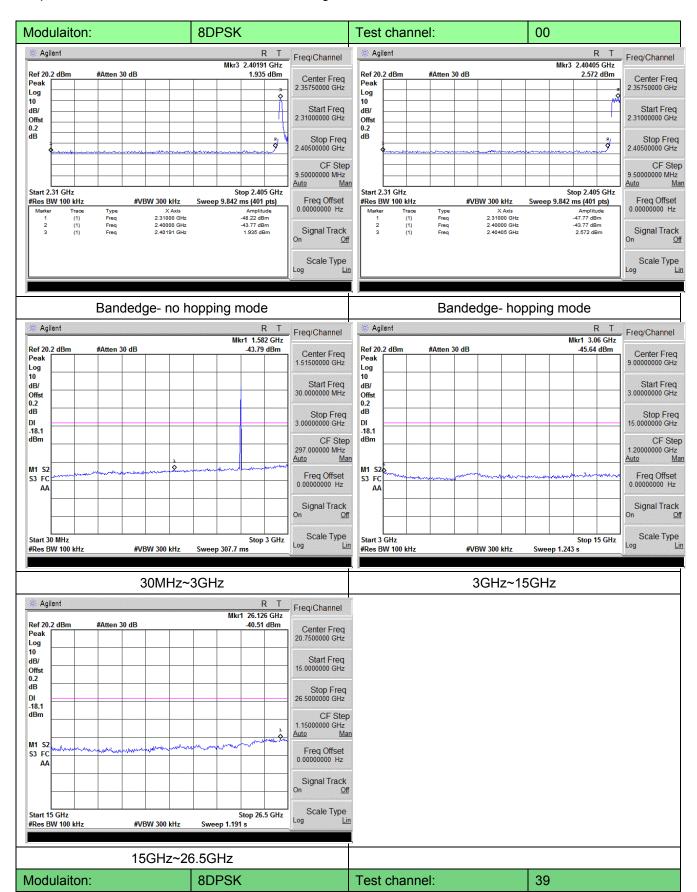


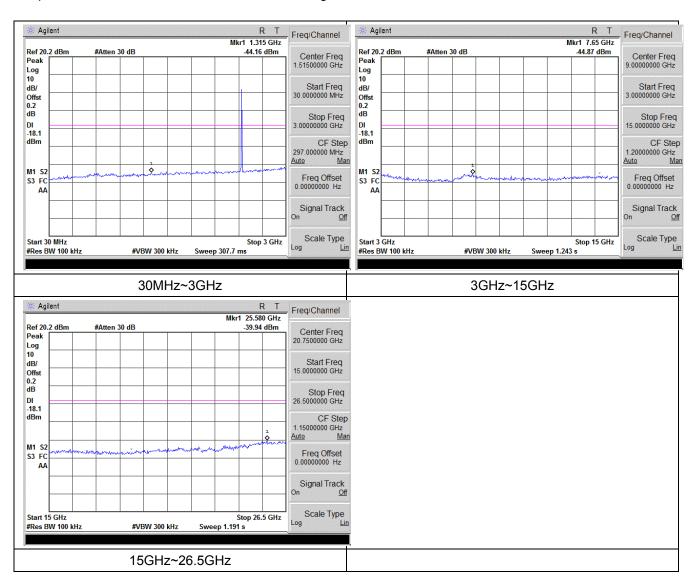


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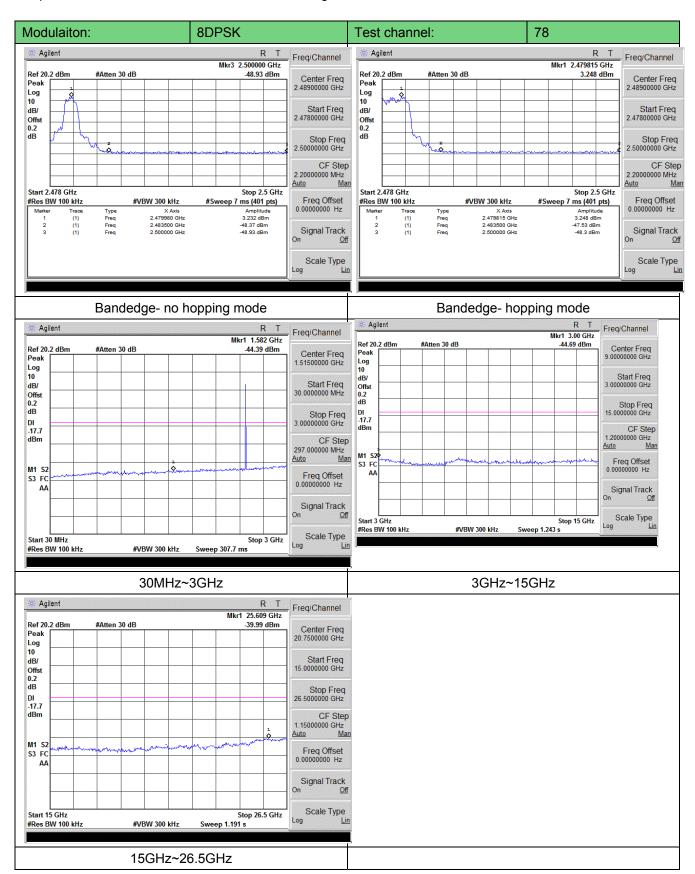


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4.11. Spurious Emission (radiated)

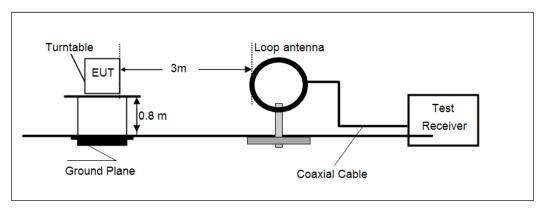
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

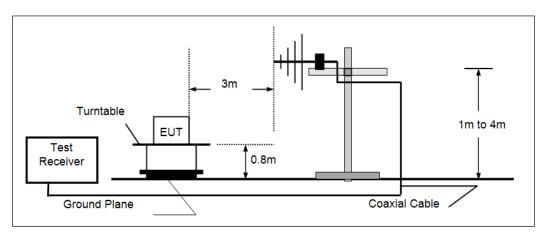
Frequency	Limit (dBuV/m @3m)	Value		
30MHz-88MHz	40.00	Quasi-peak		
88MHz-216MHz	43.50	Quasi-peak		
216MHz-960MHz	46.00	Quasi-peak		
960MHz-1GHz	54.00	Quasi-peak		
Above 1GHz	54.00	Average		
	74.00	Peak		

TEST CONFIGURATION

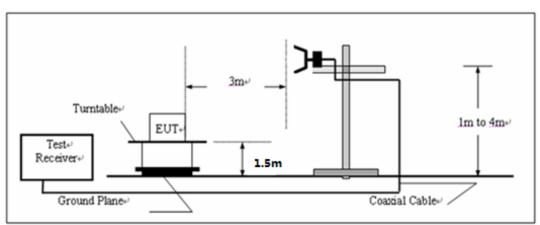
♦ Below 30MHz



♦ 30MHz~1000MHz



♦ Above 1GHz



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TEST PROCEDURE

1. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter 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, whichwas mounted on the top of a variable-height antenna tower.
- 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 thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1GHz, RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detectoris 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, theemission measurement will be repeated using the guasi-peak detector and reported.
 - c) Above 1GHz, RBW=1MHz, VBW=3MHz for Peak value

RBW=1MHz, VBW=10Hz for Average value.

TEST RESULTS

Noted:

- 1. Have pre-scan all modulation mode, found the GFSK modulation which it was worst case, so only the worst case's data on the test report.
- 2. We tested Battery Model:BL1608 and BL2505, Charger Model CH10A05 and CH10A07; recorded the Battery Model:BL2505 and Charger Model CH10A07 at worst case.

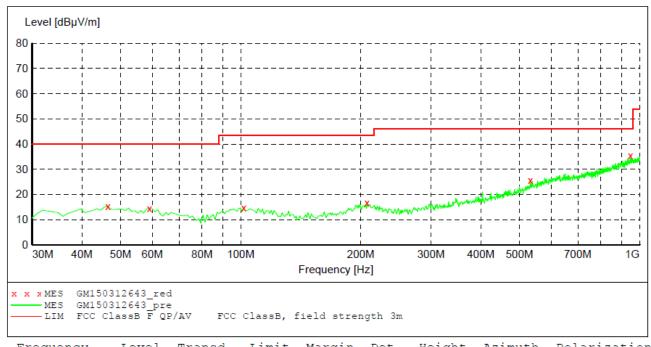
Measurement data:

■ 9kHz ~ 30MHz

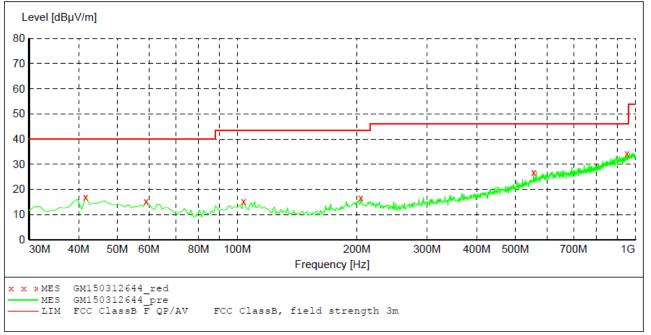
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

■ 30MHz ~ 1GHz

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Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB		Height cm	Azimuth deg	Polarization
46.490000	15.30	-14.6	40.0	24.7	QP	100.0	117.00	HORIZONTAL
59.100000	14.40	-14.8	40.0	25.6	QP	300.0	63.00	HORIZONTAL
101.780000	14.80	-14.4	43.5	28.7	QP	100.0	360.00	HORIZONTAL
207.510000	16.60	-13.9	43.5	26.9	QP	300.0	154.00	HORIZONTAL
532.460000	25.60	-5.7	46.0	20.4	QP	100.0	27.00	HORIZONTAL
948.590000	35.30	3.7	46.0	10.7	QP	100.0	0.00	HORIZONTAL



Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
41.640000	16.90	-15.1	40.0	23.1	QP	100.0	210.00	VERTICAL
59.100000	15.30	-14.8	40.0	24.7	QP	100.0	81.00	VERTICAL
103.720000	15.20	-14.6	43.5	28.3	QP	100.0	356.00	VERTICAL
204.600000	16.60	-13.8	43.5	26.9	QP	100.0	117.00	VERTICAL
555.740000	26.80	-4.6	46.0	19.2	QP	100.0	343.00	VERTICAL
954.410000	34.20	3.8	46.0	11.8	QP	100.0	343.00	VERTICAL

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■ Above 1GHz

				CH00) for GFSK				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4804.00	40.21	31.28	5.66	35.29	41.86	74.00	-32.14	Vertical	
7206.00	35.38	36.22	6.87	35.15	43.32	74.00	-30.68	Vertical	
9608.00	37.47	37.85	8.80	35.55	48.57	74.00	-25.43	Vertical	
12010.00	*							Vertical	Dook
4804.00	37.53	31.28	5.66	35.29	39.18	74.00	-34.82	Horizontal	Peak
7206.00	35.48	36.22	6.87	35.15	43.42	74.00	-30.58	Horizontal	
9608.00	36.06	37.85	8.80	35.55	47.16	74.00	-26.84	Horizontal	
2136.15	*							Horizontal	
4804.00	32.74	31.28	5.66	35.29	34.39	54.00	-19.61	Vertical	
7206.00	28.53	36.22	6.87	35.15	36.47	54.00	-17.53	Vertical	
9608.00	27.42	37.85	8.80	35.55	38.52	54.00	-15.48	Vertical	
12010.00	*							Vertical	Augraga
4804.00	32.74	31.28	5.66	35.29	34.39	54.00	-19.61	Horizontal	Average
7206.00	27.53	36.22	6.87	35.15	35.47	54.00	-18.53	Horizontal	
9608.00	28.45	37.85	8.80	35.55	39.55	54.00	-14.45	Horizontal	
2136.15	*							Horizontal	

CH39 for GFSK									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4882.00	39.25	30.88	5.70	35.27	40.56	74.00	-33.44	Vertical	
7323.00	34.97	35.82	6.91	35.13	42.57	74.00	-31.43	Vertical	
9764.00	35.69	37.45	8.84	35.53	46.45	74.00	-27.55	Vertical	
12205.00	*							Vertical	Dook
4882.00	39.31	30.88	5.70	35.27	40.62	74.00	-33.38	Horizontal	Peak
7323.00	35.66	35.82	6.91	35.13	43.26	74.00	-30.74	Horizontal	
9764.00	37.42	37.45	8.84	35.53	48.18	74.00	-25.82	Horizontal	
1876.87	*							Horizontal	
4882.00	33.23	30.88	5.70	35.27	34.54	54.00	-19.46	Vertical	
7323.00	30.04	35.82	6.91	35.13	37.64	54.00	-16.36	Vertical	
9764.00	27.86	37.45	8.84	35.53	38.62	54.00	-15.38	Vertical	
12205.00	*							Vertical	Avanaga
4882.00	34.01	30.88	5.70	35.27	35.32	54.00	-18.68	Horizontal	Average
7323.00	28.89	35.82	6.91	35.13	36.49	54.00	-17.51	Horizontal	
9764.00	27.83	37.45	8.84	35.53	38.59	54.00	-15.41	Horizontal	
1876.87	*							Horizontal	

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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				CH78	8 for GFSK				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
4960.00	39.29	30.98	5.73	35.32	40.68	74.00	-33.32	Vertical	
7440.00	35.76	35.92	6.94	35.18	43.44	74.00	-30.56	Vertical	
9920.00	38.55	37.55	8.87	35.58	49.39	74.00	-24.61	Vertical	
12400.00	*							Vertical	Dook
4960.00	39.15	30.98	5.73	35.32	40.54	74.00	-33.46	Horizontal	Peak
7440.00	36.13	35.92	6.94	35.18	43.81	74.00	-30.19	Horizontal	
9920.00	37.92	37.55	8.87	35.58	48.76	74.00	-25.24	Horizontal	
6241.25	*							Horizontal	
4960.00	33.29	30.98	5.73	35.32	34.68	54.00	-19.32	Vertical	
7440.00	28.58	35.92	6.94	35.18	36.26	54.00	-17.74	Vertical	
9920.00	26.78	37.55	8.87	35.58	37.62	54.00	-16.38	Vertical	
12400.00	*							Vertical	A.,
4960.00	33.23	30.98	5.73	35.32	34.62	54.00	-19.38	Horizontal	Average
7440.00	28.93	35.92	6.94	35.18	36.61	54.00	-17.39	Horizontal	
9920.00	27.65	37.55	8.87	35.58	38.49	54.00	-15.51	Horizontal	
6241.25	*							Horizontal	

Remark:

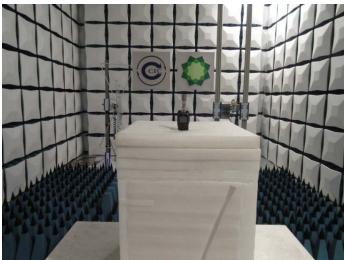
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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5. Test Setup Photos of the EUT

Radiated Emission





Conducted Emission (AC Mains)



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6. External and Internal Photos of the EUT Reference to Test Report TRE1510013001

Reference to Test Report TRE1	510013001.
	End of Report