

# TEST REPORT

**REPORT NUMBER: B15X50050-FCC-BT\_Rev2**

**ON**

**Type of Equipment:** Ilium X400 Smart Phone  
**Type of Designation:** Ilium X400  
**Manufacturer:** Shenzhen fortuneship technology,LTD

## ACCORDING TO

### **FCC Part 15, Subpart C, 2015:**

15.205 Restricted bands of operation,  
15.209 Radiated emission limits; general requirements,  
15.247 Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and  
5725–5850 MHz

**ANSI C63.4-2014**, Methods of Measurement of Radio-Noise Emissions from  
Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40  
GHz

**ANSI C63.10-2013**:American National Standard of Procedures for Compliance  
Testing of Unlicensed Wireless Devices

**FCC Public Notice DA 00-705, March-2000**, Filing and Measurement  
Guidelines for Frequency Hopping Spread Spectrum Systems

**China Telecommunication Technology Labs.**

*Month date, year*

*APR 09, 2015*

*Signature*



He Guili

**Director**

**FCC ID:** ZC4X400  
**Report Date:** 2015-04-09

**Test Firm Name:** China Telecommunication Technology Labs  
**Registration Number:** 840587

#### Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C. The sample tested was found to comply with the requirements defined in the applied rules.

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## 1 General Information

### 1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C and ANSI C63.4-2014 and FCC DA 00-705.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex C.

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## 1.2 Testers

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Position: Engineer  
Department: Department of EMC test  
Date: 2015-04-09  
Signature: 李国庆

Editor of this test report:

Name: Li Guoqing  
Position: Engineer  
Department: Department of EMC test  
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Signature: 李国庆

Technical responsibility for area of testing:

Name: Zou Dongyi  
Position: Manager  
Department: Department of EMC test  
Date: 2015-04-09  
Signature: 邹东屹

### 1.3 Testing Laboratory information

#### 1.3.1 Location

Name: China Telecommunication Technology Labs.  
Address: No. 11, Yue Tan Nan Jie, Xi Cheng District  
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Tel: +86 10 68094053  
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#### 1.3.2 Details of accreditation status

Accredited by: China National Accreditation Service for Conformity  
Assessment (CNAS)  
Registration number: CNAL Registration No.L0570  
Standard: ISO/IEC 17025:2005

#### 1.3.3 Test location, where different from section 1.3.1

Name: -----  
Street: -----  
City: -----  
Country: -----  
Telephone: -----  
Fax: -----  
Postcode: -----

## 1.4 Details of applicant or manufacturer

### 1.4.1 Applicant

Name: Coroporativo Lanix S.A. de C.V  
Address: Carrterera internacional Hermosillo-Nogales Km 8.5  
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Contact: Oscar Guzman  
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### 1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: Shenzhen fortuneship technology, LTD  
Address: 6th Floor, Kingson Building, New Energ Innovation Industrial  
Park, No.1Chuangsheng Road, Nanshan District, Shenzhen,  
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### 1.4.3 Manufactory (if different from applicant in section 1.4.1)

Name: Shenzhen fortuneship technology, LTD  
Address: 6th Floor, Kingson Building, New Energ Innovation Industrial  
Park, No.1Chuangsheng Road, Nanshan District, Shenzhen,  
P.R.China

## 2 Test Item

### 2.1 General Information

Manufacturer: Shenzhen fortuneship technology, LTD  
 Name: Ilium X400 Smart Phone  
 Model Number: Ilium X400  
 Serial Number: --  
 Production Status: Production  
 Receipt date of test item: 2015-02-02

### 2.2 Outline of EUT

E.U.T. is a GSM850/ PCS1900 bands and UMTS/HSDPA/HSUPA FDD II/V bands Terminal Equipment with Bluetooth and Wifi.

### 2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

### 2.4 Equipment Configuration

Equipment configuration list:

Item	Generic Description	Manufacturer	Type	Serial No.	Remarks
A	Mobile phone	Shenzhen fortuneship technology, LTD	Ilium X400	--	None
B	Battery	None	None	--	None
C	Adaptor	None	None	--	None

### 2.5 Other Information

--



### 3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

	Name of Test	Result
1、	Peak power	Pass
2、	Band edge (conducted)	Pass
3、	Frequency separation	Pass
4、	Number of hopping frequency	Pass
5、	Time of occupancy	Pass
6、	Spurious emission (conducted)	Pass
7、	Spurious emission (radiated)	Pass
8、	Power line Conducted Emissions	Pass
Note: none		

## 4 Test Results

### 4.1 Peak power

<b>Specifications:</b>	15.247 (b)(3)(i),(ii)and(iii)					
<b>Date of Tests</b>	2015-03-30					
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
<b>Operation Mode</b>	Fix channel transmit					
<b>Test Results:</b>	Pass					
<b>Test equipment Used:</b>						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	Spectrum Analyzer	R/S	FSQ26	201137/026	2016-03-05	Normal
2	Wireless Connectivity Test Set	R/S	CMW500	152395	2016-01-28	Normal

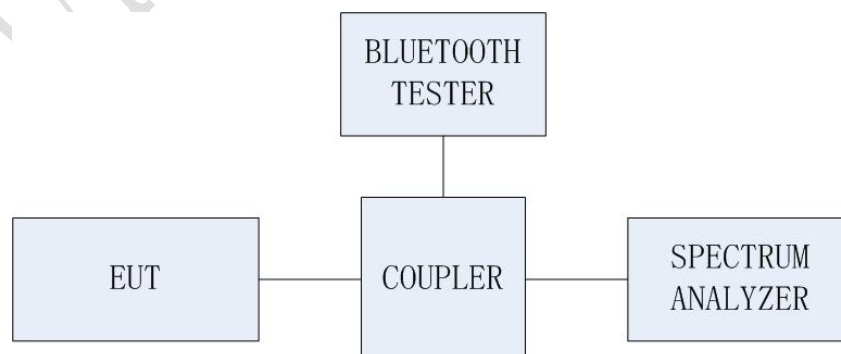
### LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz: 1 watt.
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### Test Setup:

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupler.



**Test procedure:**

The transmitter output is connected to the Spectrum Analyzer. The Spectrum Analyzer is set to the peak detector mode. The RBW is set to 3MHz. The VBW is set to 3MHz.

**The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.10-2013.**

**Test Results:**

GFSK:

channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low: 0	2401.79808	3.24	30	Pass
Middle: 39	2440.66827	3.66	30	Pass
High: 78	2479.69712	4.27	30	pass

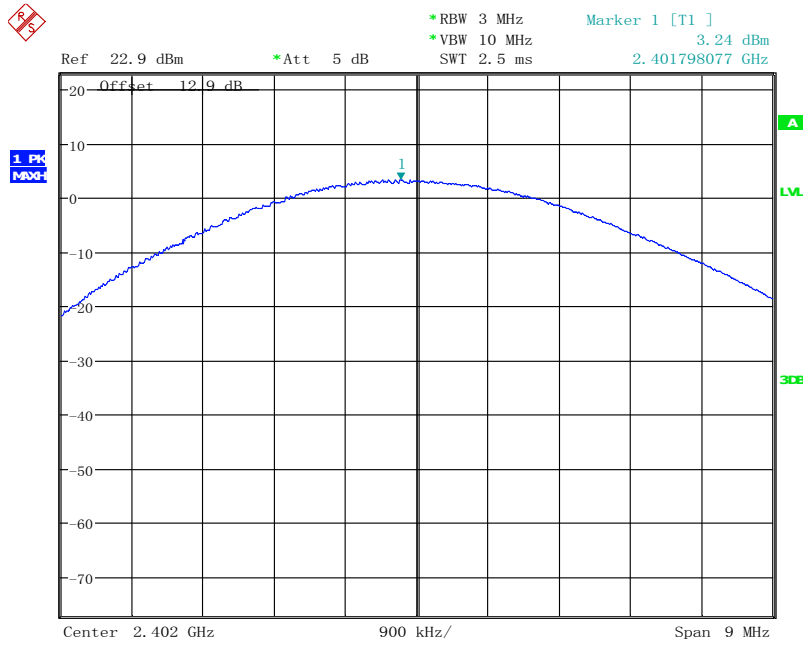
Pi/4 DQPSK:

channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low: 0	2402.00000	2.48	30	Pass
Middle: 39	2441.01442	2.86	30	Pass
High: 78	2479.76923	3.55	30	pass

8DPSK:

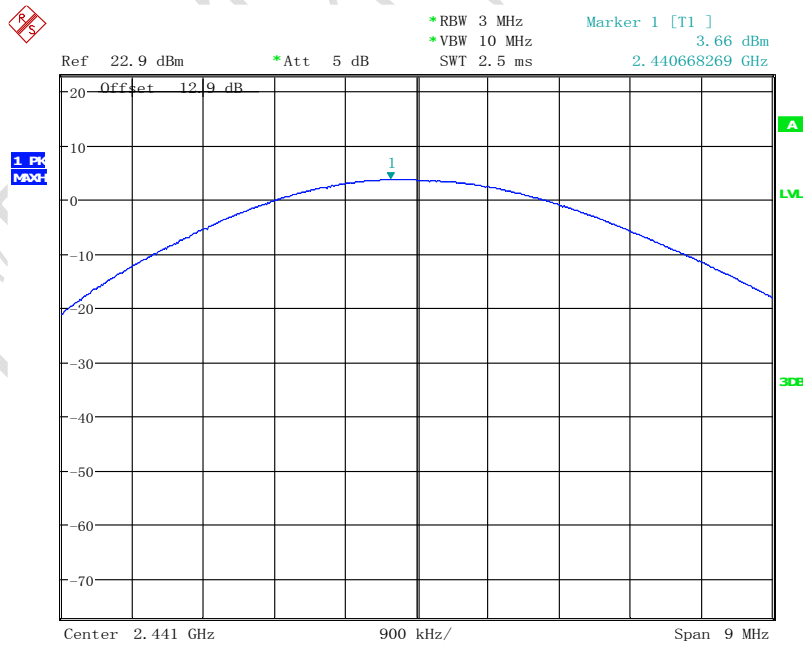
channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low: 0	2401.95673	2.64	30	Pass
Middle: 39	2440.99038	3.08	30	Pass
High: 78	2479.89904	3.75	30	pass

Test plots:



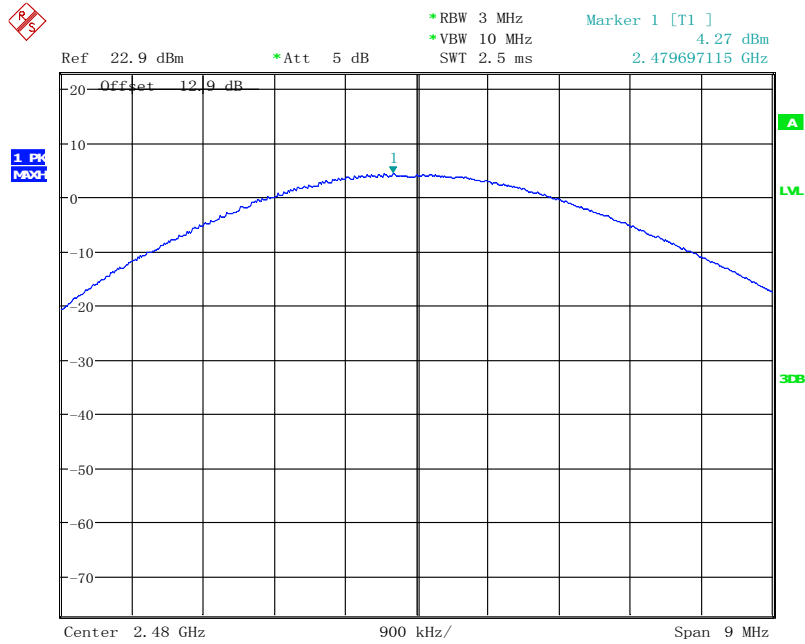
Date: 30. MAR. 2015 15:59:55

GFSK Channel 0



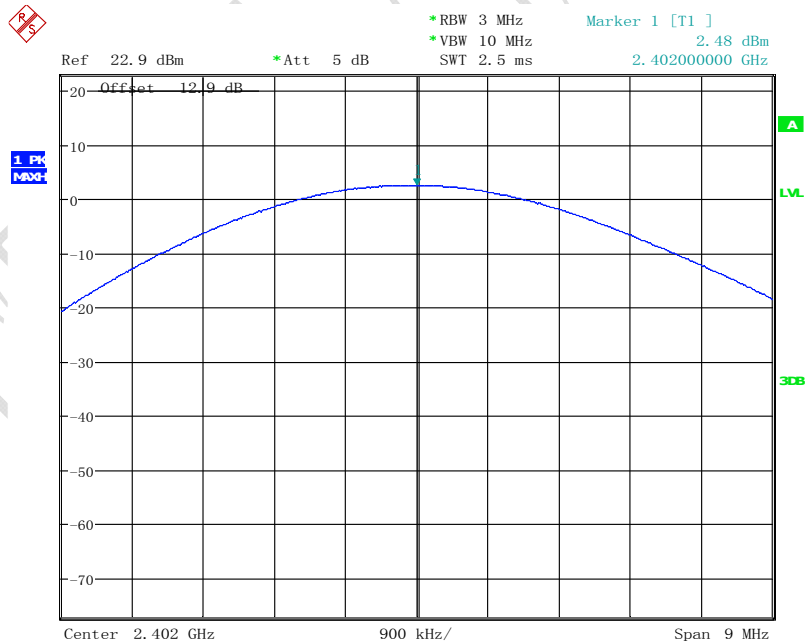
Date: 30. MAR. 2015 15:59:28

GFSK Channel 39



Date: 30.MAR.2015 16:00:13

### GFSK Channel 78

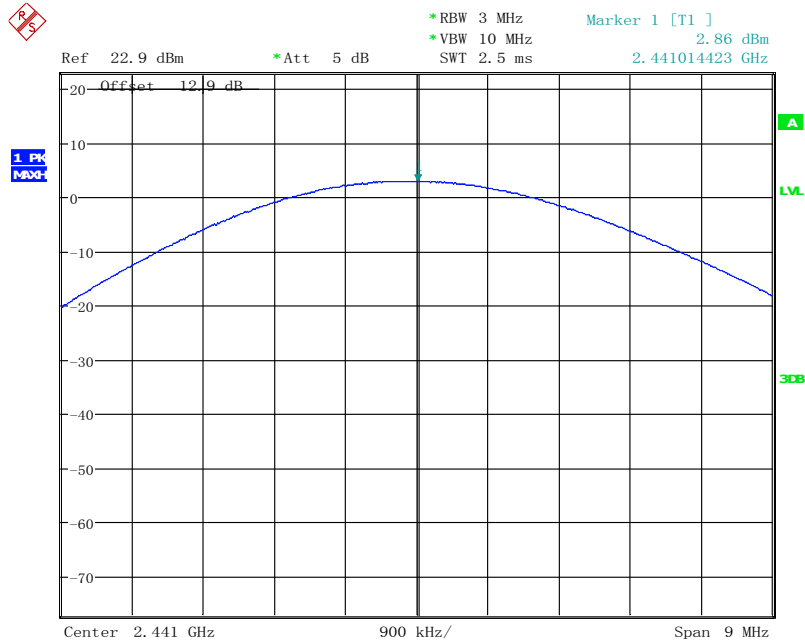


Date: 30.MAR.2015 16:02:51

### Pi/4 DQPSK Channel 0

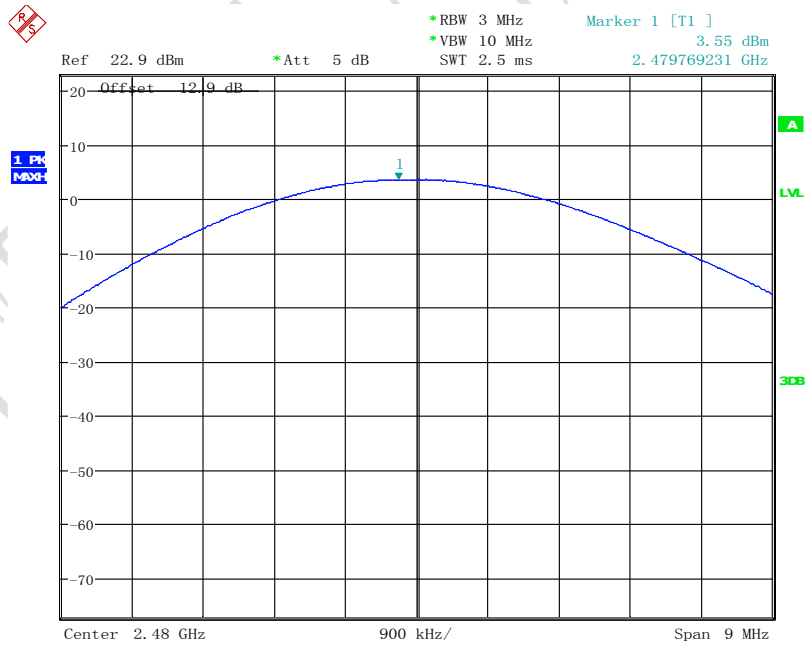
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



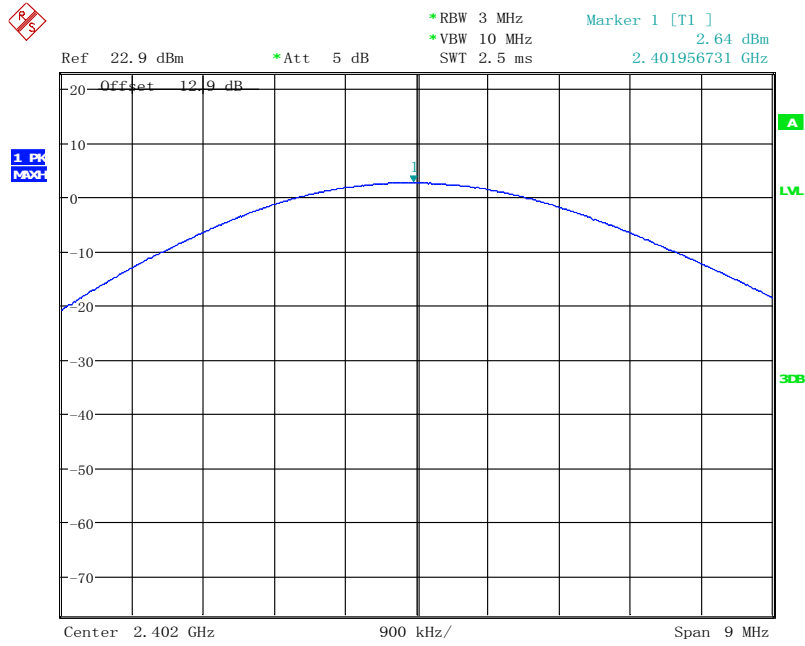
Date: 30. MAR. 2015 16:01:22

### Pi/4 DQPSK Channel 39



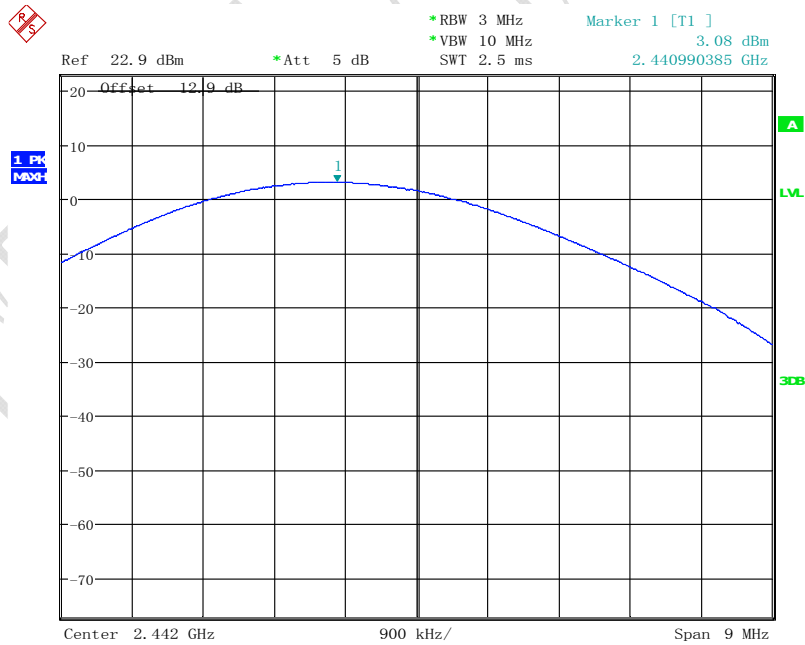
Date: 30. MAR. 2015 16:01:01

### Pi/4 DQPSK Channel 78



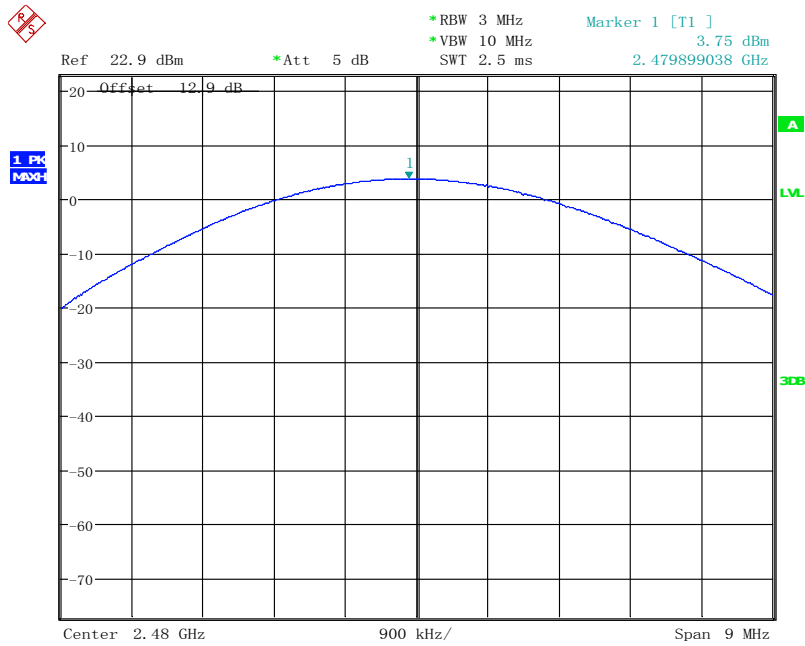
Date: 30. MAR. 2015 16:03:27

### 8DPSK Channel 0



Date: 30. MAR. 2015 16:03:57

### 8DPSK Channel 39



Date: 30.MAR.2015 16:04:19

8DPSK Channel 78

CTTL TEST 11



### 4.2 Band edges

<b>Specifications:</b>	15.247 (d)					
<b>Date of Tests</b>	2015-03-30~2015-04-09					
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
<b>Operation Mode</b>	Maximum transmit					
<b>Test Results:</b>	Pass					
<b>Test equipment Used:</b>						
Asset Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	EMI Test Receiver	R/S	ESU40	100350	2016-03-05	Normal
2	Wireless Connectivity Test Set	R/S	CMW500	152395	2016-01-28	Normal

#### LIMIT

Standard	Limited(dBuV/m)	
FCC 47 CFR Part 15.247(d)	Peak	74
	Average	54

#### Test Setup:

The measurement is according to ANSI C63.10 clause11.13.

- Span: 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.
- Reference level offset: Corrected for gains and losses of test antenna factor, preamp gain and cable loss, so as to indicate field strength, in units of dBμV/m at 3 m, directly on the instrument display. Alternatively, the reference level offset may be set to zero and calculations shall be provided showing the conversion of raw measured data to the field strength in dBμV/m at 3 m.
- Reference level: As required to keep the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2..
- Attenuation: Auto (at least 10 dB preferred).
- Sweep time: Coupled.
- Resolution bandwidth: Above 1 GHz: 1 MHz
- Video bandwidth: VBW for Peak, Quasi-peak, or Average Detector Function: 3× RBW
- Detector (unless specified otherwise): Peak and average above 1 GHz
- Trace: Max hold for final measurement; a combination of two traces, clear-write and max hold, is recommended for maximizing the emission.

GFSK

Channel	Test Results(dBuV/m)			Conclusion
0	Peak	2338.412MHz	50.549	Pass
	Average	2338.412MHz	40.456	
78	Peak	2483.500MHz	40.398	Pass
	Average	2483.500MHz	31.182	

Pi/4 DQPSK

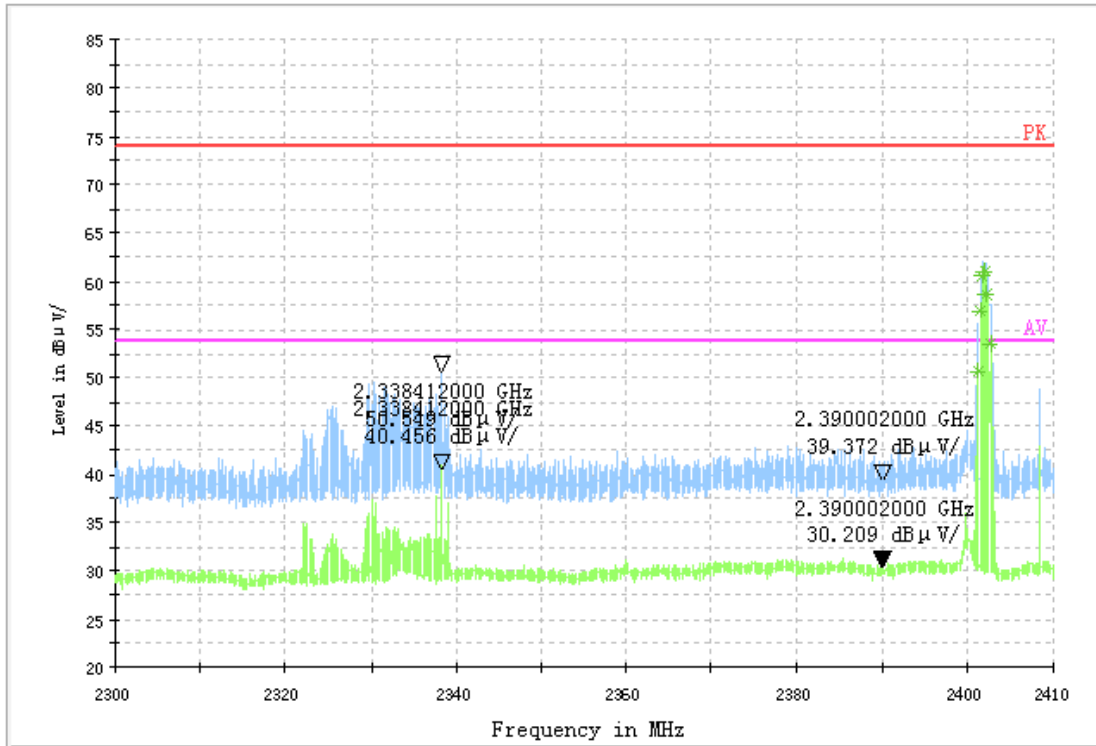
Channel	Test Results(dBuV/m)			Conclusion
0	Peak	2338.357MHz	50.798	Pass
	Average	2338.346 MHz	40.750	
78	Peak	2483.472 MHz	42.284	Pass
	Average	2483.500 MHz	31.182	

8DPSK

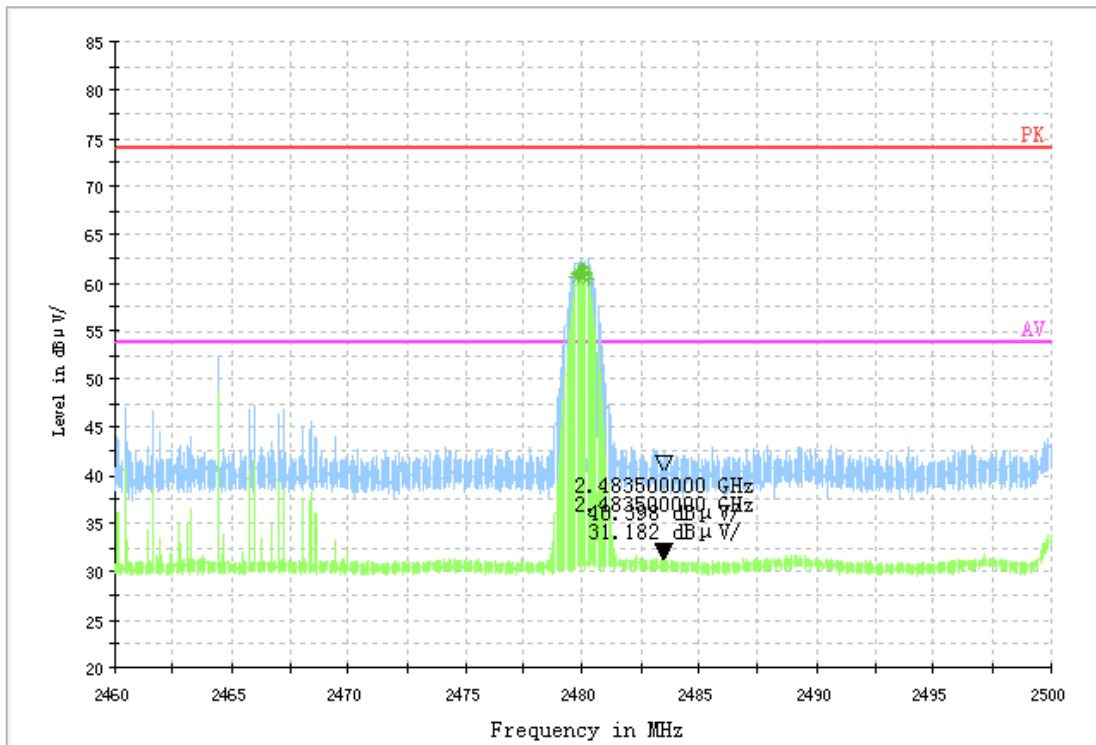
Channel	Test Results(dBuV/m)			Conclusion
0	Peak	2338.357 MHz	50.798	Pass
	Average	2338.346 MHz	40.750	
78	Peak	2483.540 MHz	42.128	Pass
	Average	2483.500 MHz	31.182	

**Test plots:**

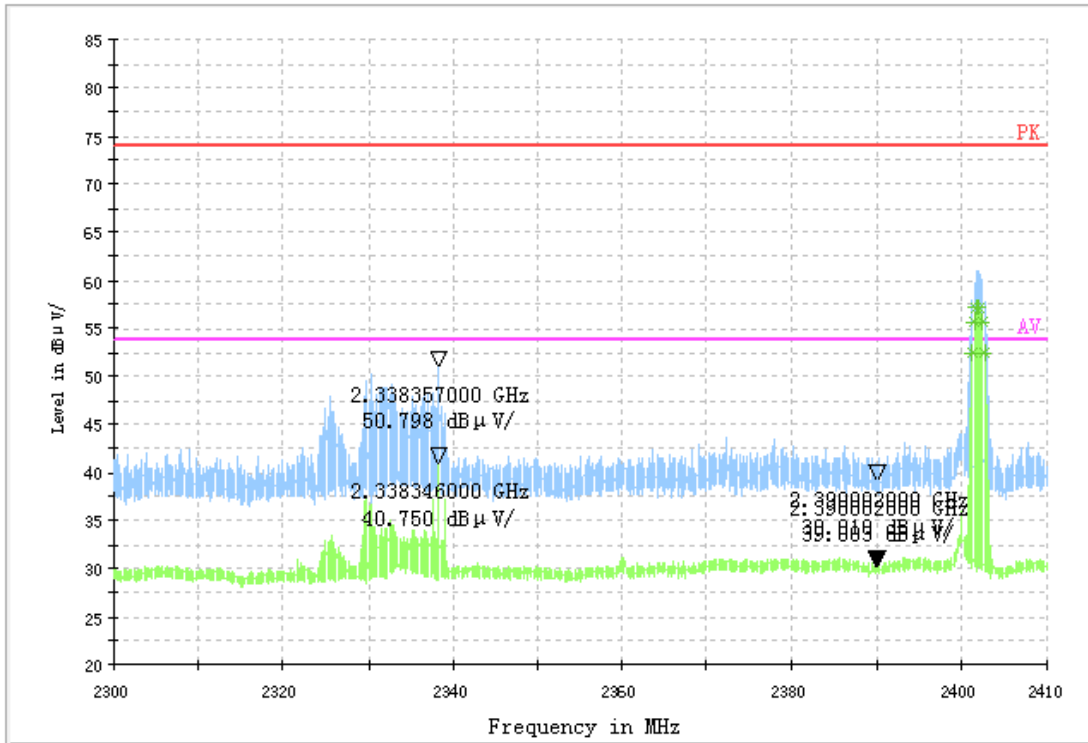
GFSK Channel 0, fixed mode, left band-edge



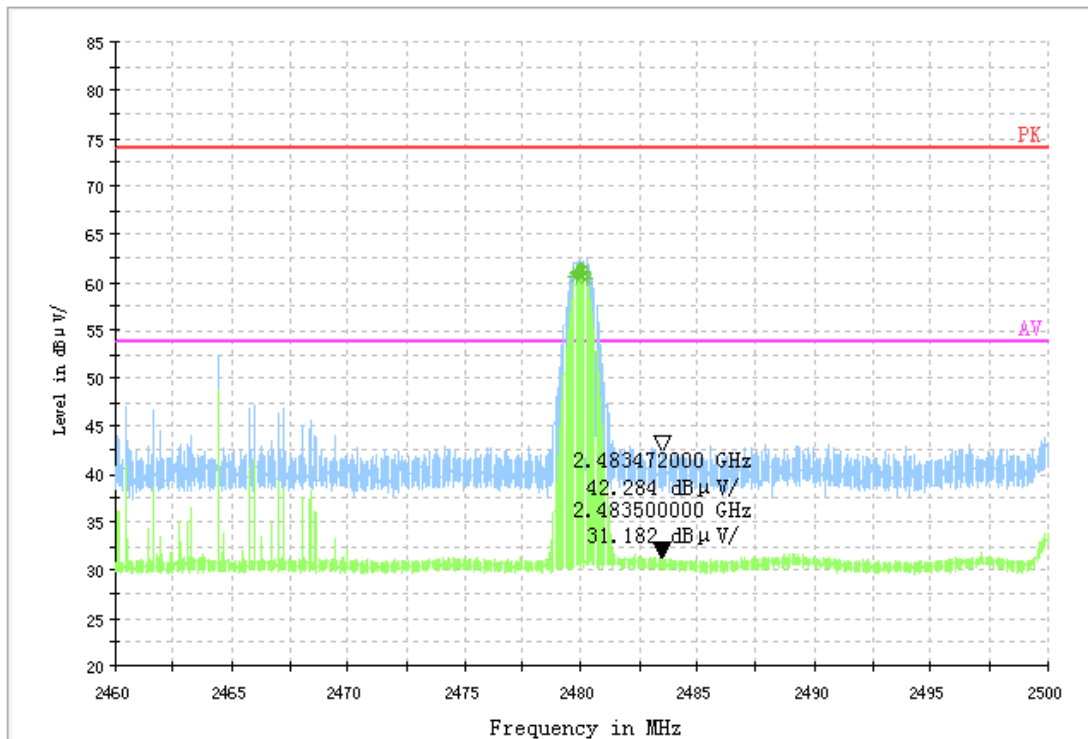
GFSK Channel 78, fixed mode, right band-edge



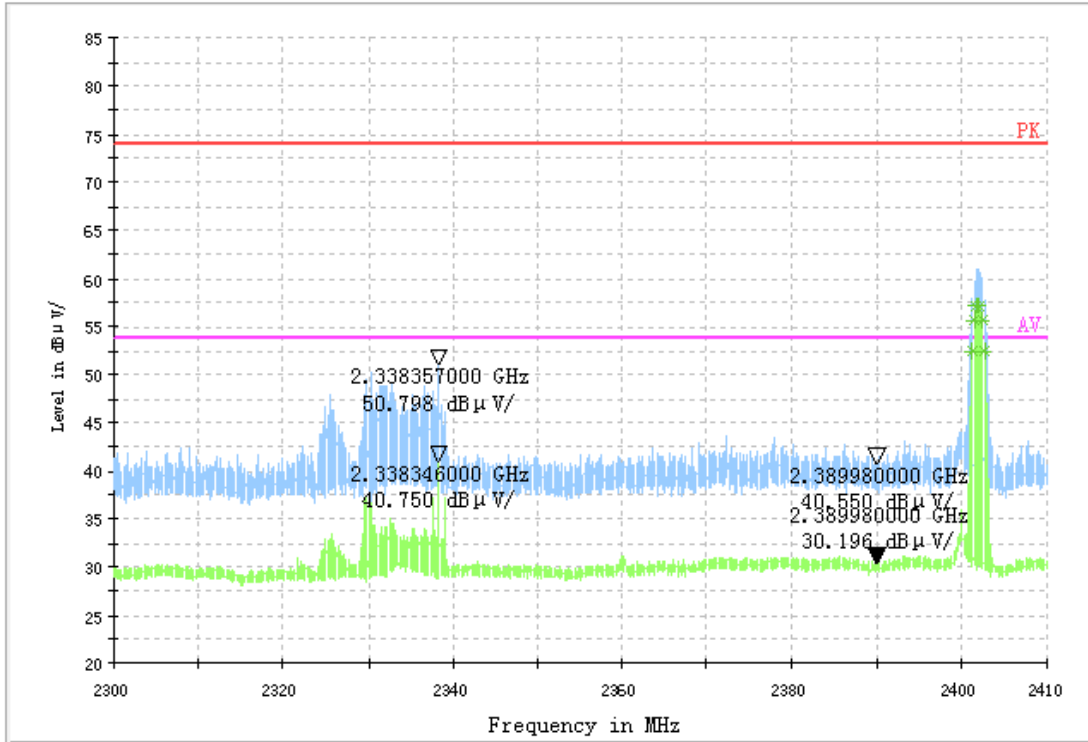
Pi/4 DQPSK Channel 0, fixed mode, left band-edge



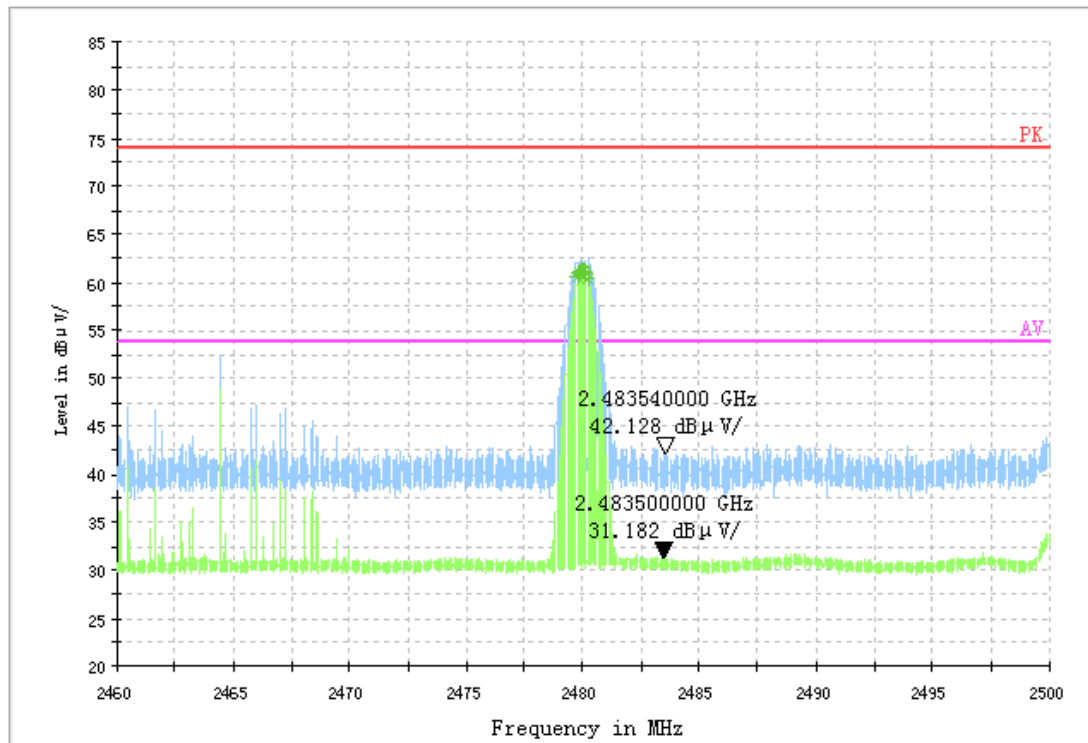
Pi/4 DQPSK Channel 78, fixed mode, right band-edge



8DPSK Channel 0, fixed mode, left band-edge



8DPSK Channel 78, fixed mode, right band-edge



### 4.3 Frequency separation

<b>Specifications:</b>		15.247(a)(1)				
<b>Date of Test</b>		2015-02-12				
<b>Test conditions:</b>		Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa				
<b>Operation Mode</b>		maximum transmit				
<b>Test Results:</b>		Pass				
<b>Test equipment Used:</b>						
Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	EMI Test Receiver	R/S	ESU40	100350	2015-03-07	Normal
2	Wireless Connectivity Test Set	Agilent	N4010A	MY52070357	2015-03-05	Normal

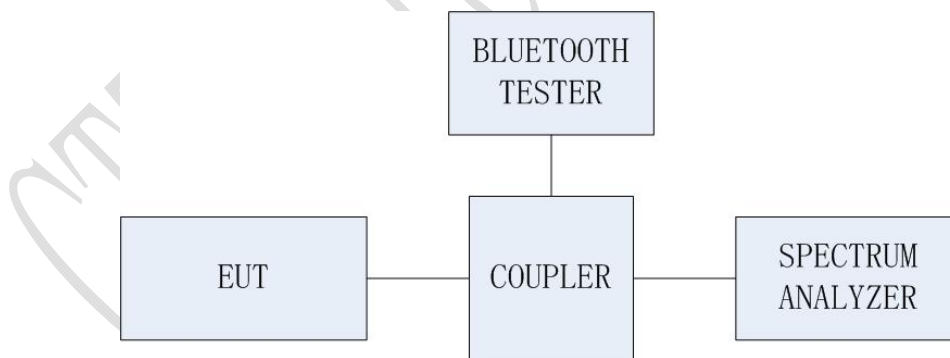
#### LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 kHz or 2/3 of the 20 dB bandwidth of the hopping channel (note), whichever is greater.

Note: it is for the power of less than 125 mw, and for others it is 20 dB bandwidth of the hopping channel.

#### Test Setup

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupling.



#### TEST PROCEDURE

The spectrum analyzer is set to:

1. 20dBc Bandwidth: Span = 3 MHz, RBW=20 kHz, VBW=50 kHz, Sweep=auto.
2. Carrier Frequency Separation: Span = 3 MHz, RBW=100 kHz, VBW=300 kHz, Sweep=auto.

The trace was allowed to stabilize. The marker-delta function was used to determine the separation between the peaks of the adjacent channels.

**The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.10-2013.**

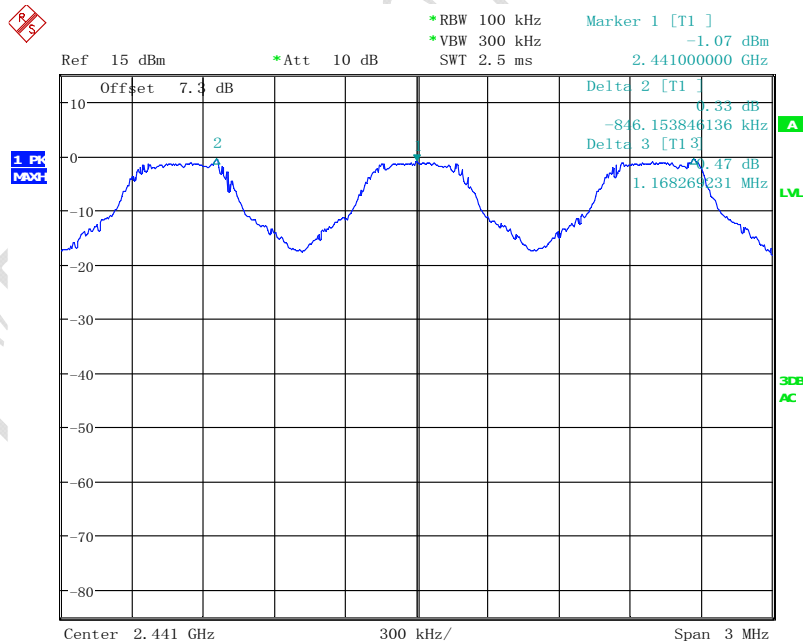
### Test Result:

20dBc bandwidth

Channel separation	20dB Bandwidth (kHz)	Limit (kHz)	Result	
GFSK				
846	Ch 0	947	>25	Pass
	Ch 39	875	>25	Pass
	Ch 78	875	>25	Pass
Pi/4 DQPSK				
863	Ch 0	1224	>25	Pass
	Ch 39	1268	>25	Pass
	Ch 78	1224	>25	Pass
8DPSK				
1111	Ch 0	1238	>25	Pass
	Ch 39	1238	>25	Pass
	Ch 78	1264	>25	Pass

### Test plots:

Channel Separation (GFSK)

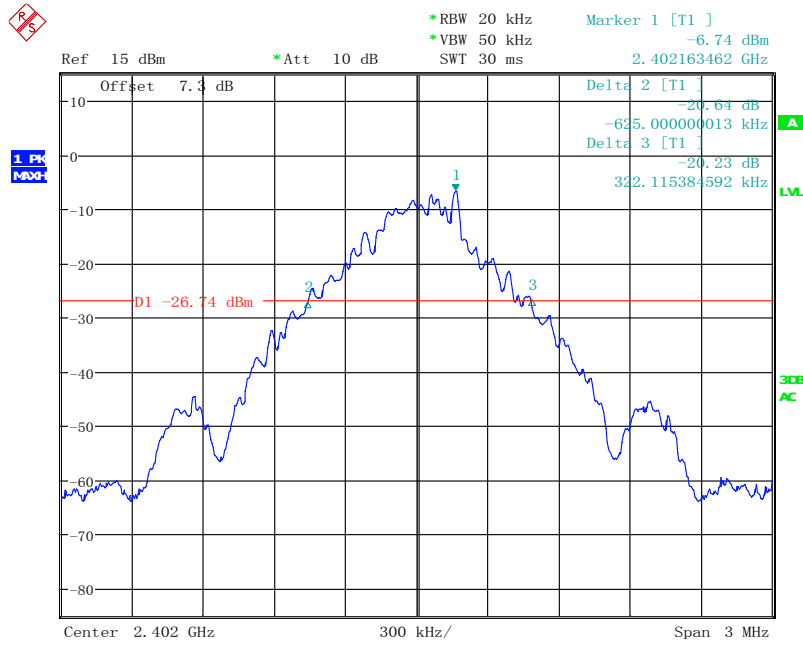


Date: 12.FEB.2015 18:06:38

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
 Equipment: Ilium X400

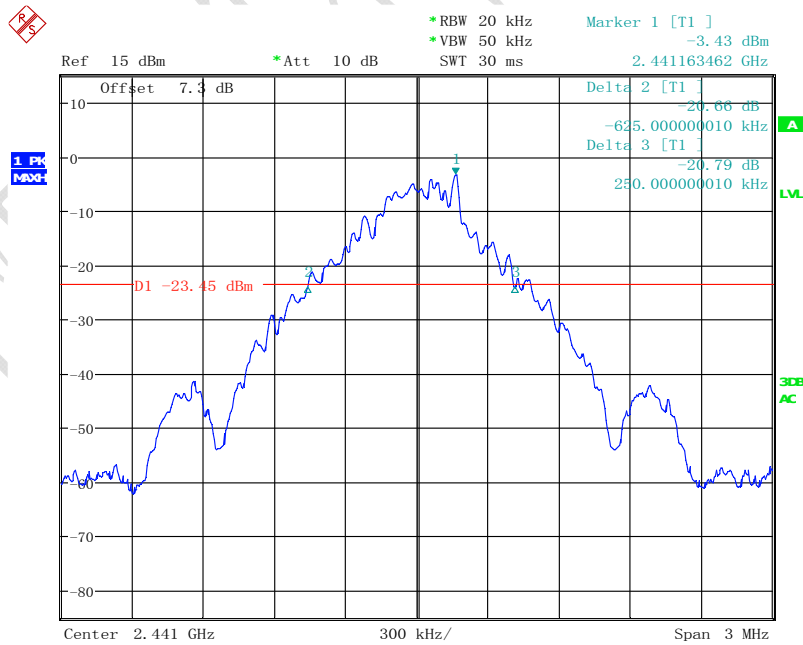
REPORT NO.:B15X50050-FCC-BT\_Rev2

20dB Bandwidth (GFSK Ch 0)



Date: 12.FEB.2015 17:59:29

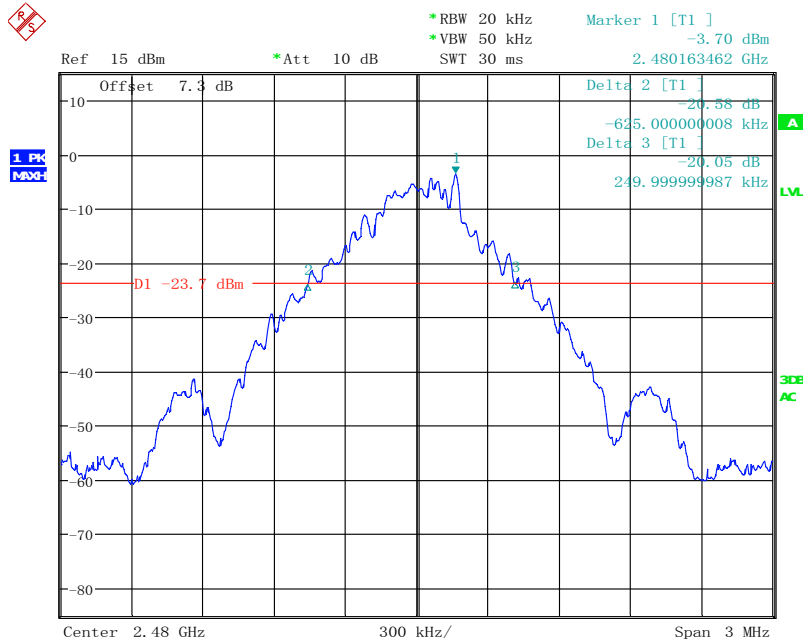
20dB Bandwidth (GFSK Ch 39)



Date: 12.FEB.2015 18:01:05

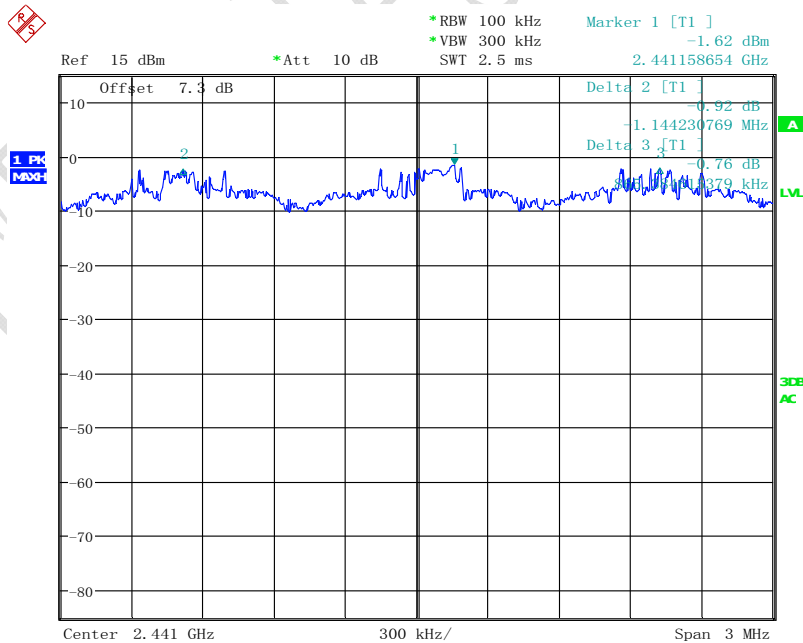


20dB Bandwidth (GFSK Ch 78)



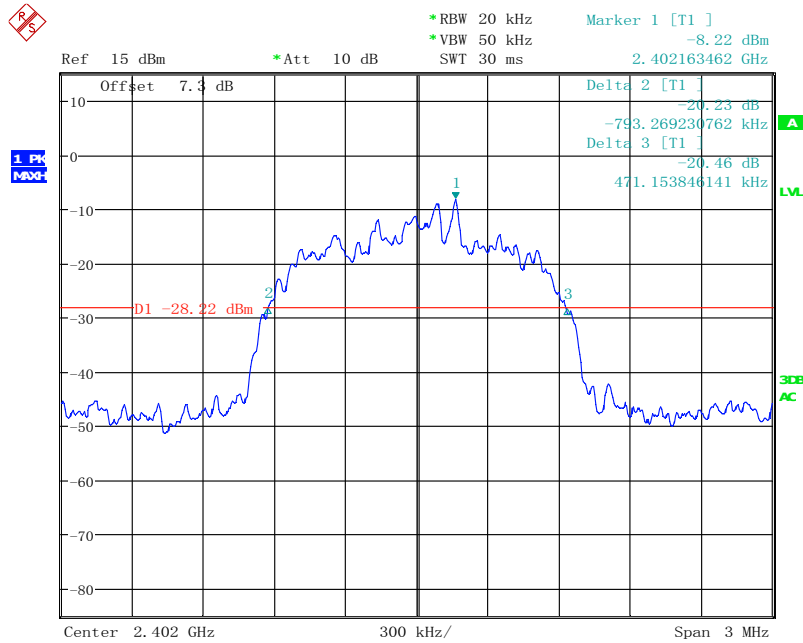
Date: 12.FEB.2015 18:02:00

Channel Separation (Pi/4 DQPSK)



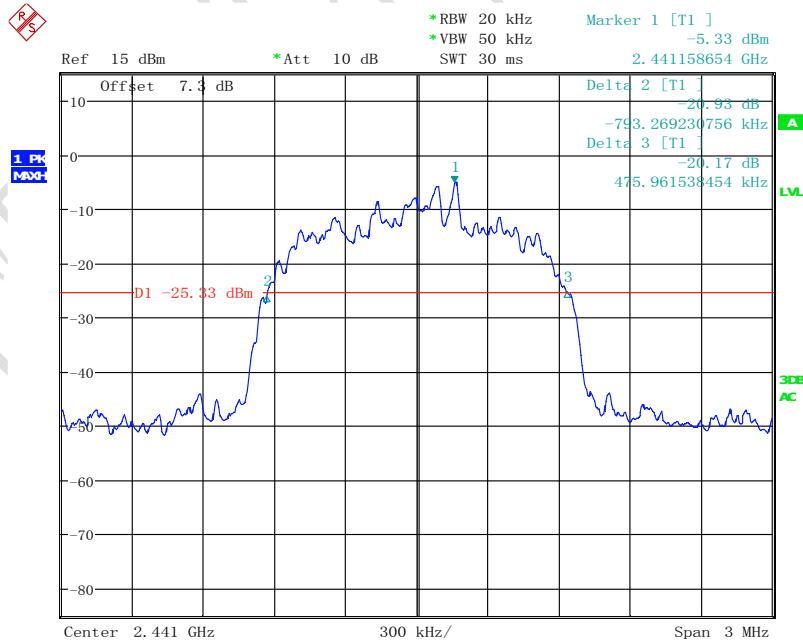
Date: 12.FEB.2015 18:19:58

20dB Bandwidth (Pi/4 DQPSK Ch0)



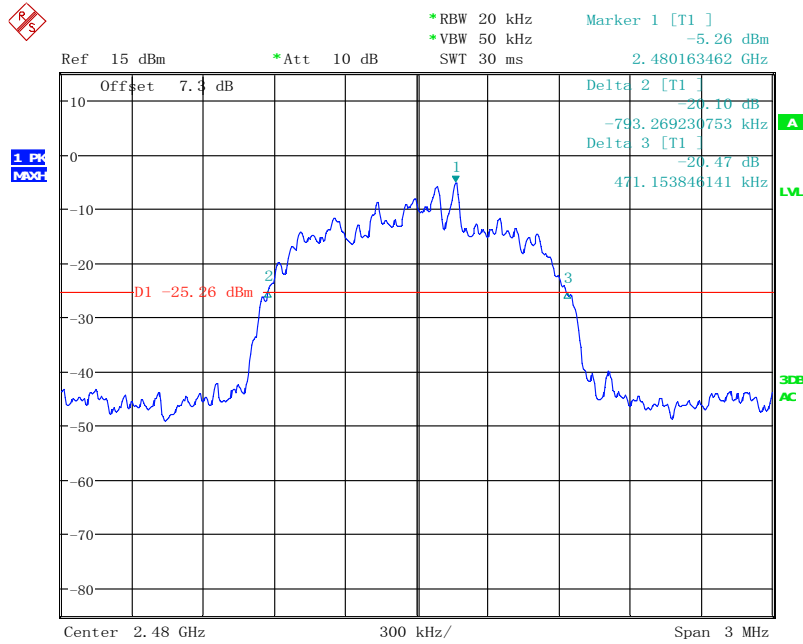
Date: 12.FEB.2015 18:08:16

20dB Bandwidth (Pi/4 DQPSK Ch39)



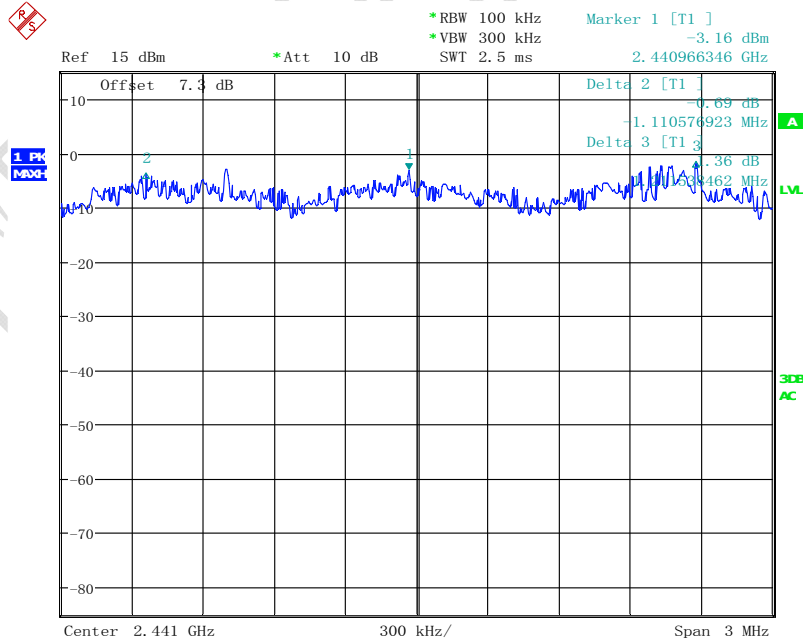
Date: 12.FEB.2015 18:09:22

20dB Bandwidth (Pi/4 DQPSK Ch78)



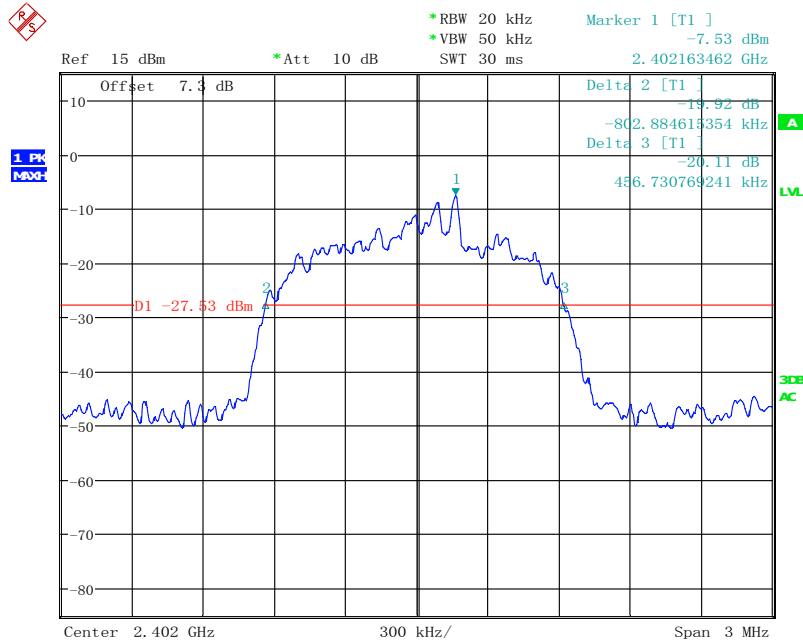
Date: 12.FEB.2015 18:10:41

Channel Separation (8DPSK)



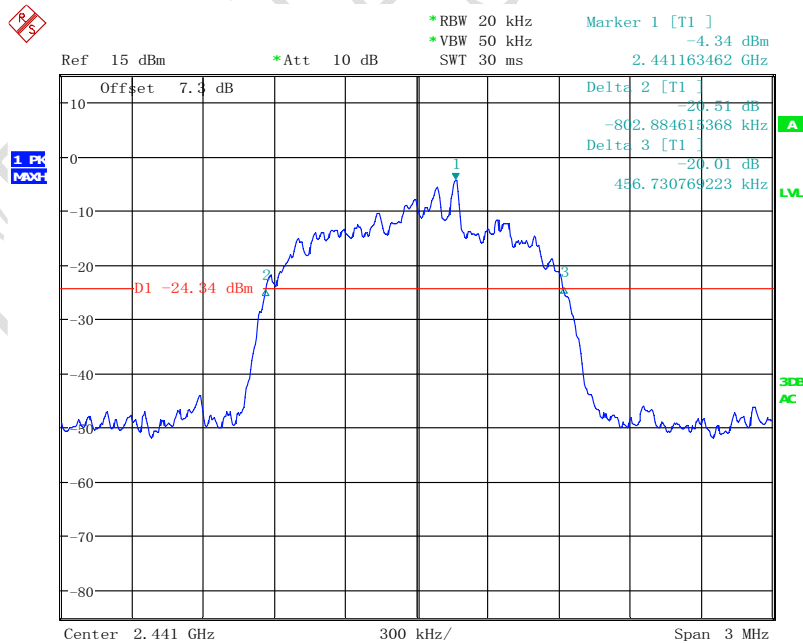
Date: 12.FEB.2015 18:21:52

20dB Bandwidth (8DPSK Ch0)



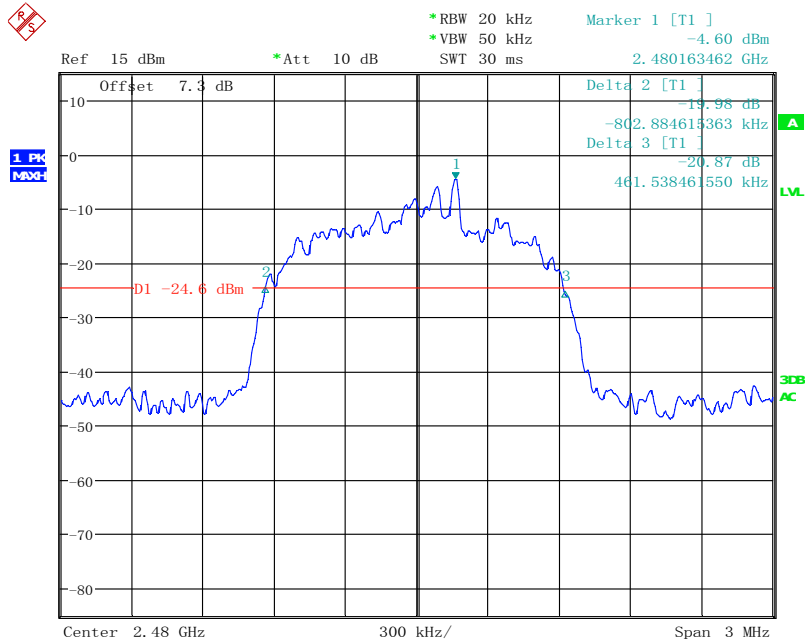
Date: 12. FEB. 2015 18:24:53

20dB Bandwidth (8DPSK Ch39)



Date: 12. FEB. 2015 18:22:55

20dB Bandwidth (8DPSK Ch78)



Date: 12.FEB.2015 18:23:53

CITILASU

#### 4.4 Number of hopping frequency

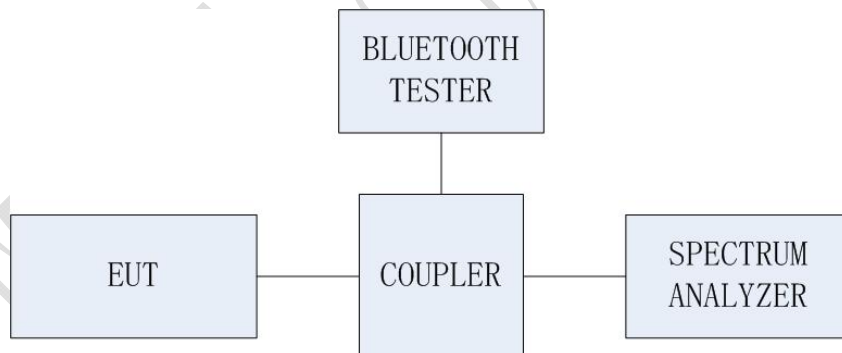
<b>Specifications:</b>	15.247(a)(1)(ii)					
<b>Date of Test</b>	2015-02-11					
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
<b>Operation Mode</b>	hopping					
<b>Test Results:</b>	Pass					
<b>Test equipment Used:</b>						
Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	EMI Test Receiver	R/S	ESU40	100350	2015-03-07	Normal
2	Wireless Connectivity Test Set	Agilent	N4010A	MY52070357	2015-03-05	Normal

#### LIMIT

According to §15.247(a)(1)(ii), Frequency hopping systems operating in the 2400 MHz - 2483.5 MHz bands shall use at least 15 hopping frequencies.

#### Test Setup

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupler.



#### TEST PROCEDURE

The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer was set to:

1. Span = the frequency band of operation, i.e. 2400-2441MHz and 2441-2484 MHz
2. RBW = 500 KHz
3. VBW = 500 KHz
4. Sweep = auto

The trace was allowed to stabilize.

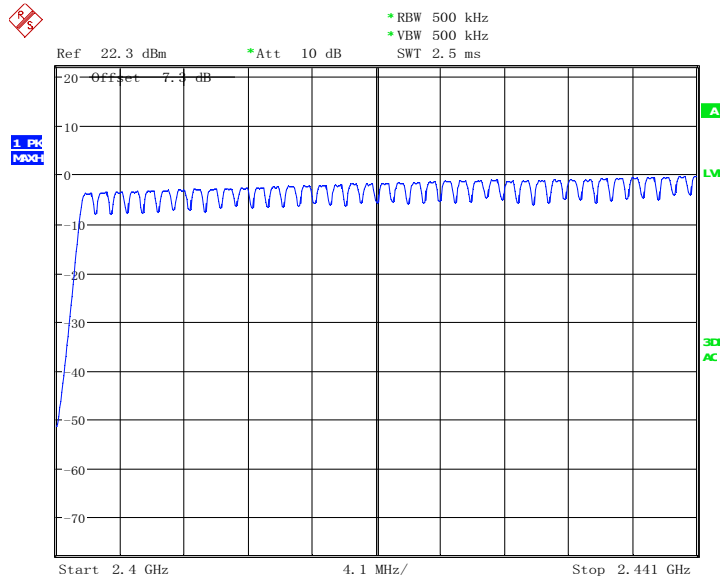
**The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.10-2013.**

Test Result:

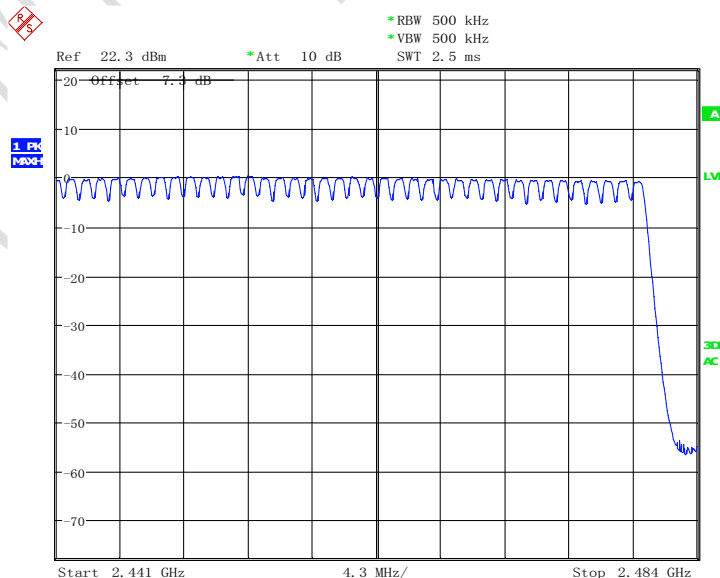
Modulation	No. OF channels	Limit (No. of Ch)	Result
GFSK	79	>75	Pass
Pi/4 DQPSK	79	>75	Pass
8DPSK	79	>75	Pass

Test plot:

Channel Number (GFSK)

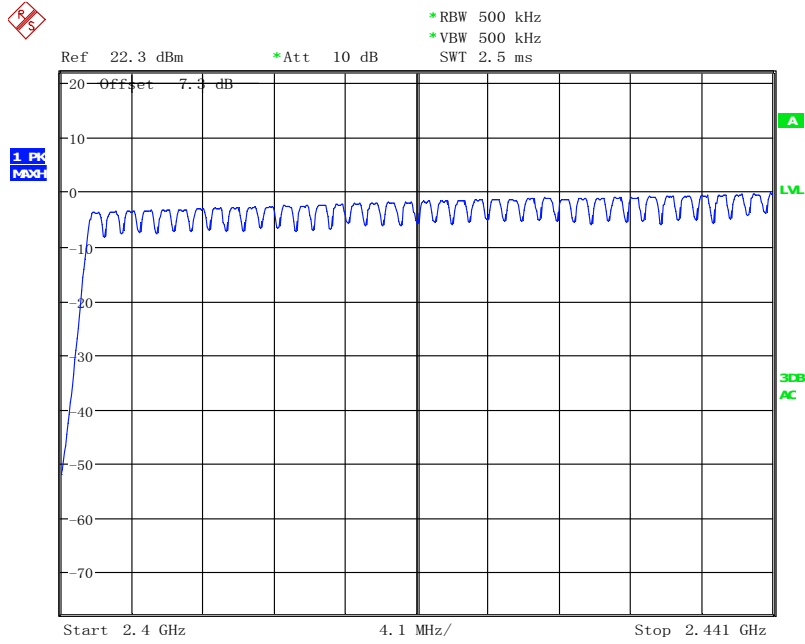


Date: 11.FEB.2015 18:14:28

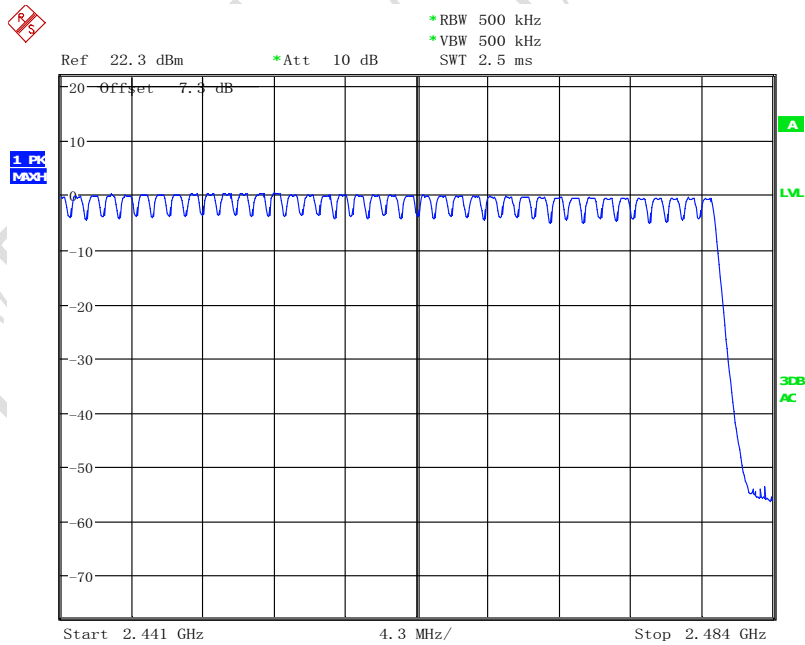


Date: 11.FEB.2015 18:15:11

Channel Number (Pi/4 DQPSK)



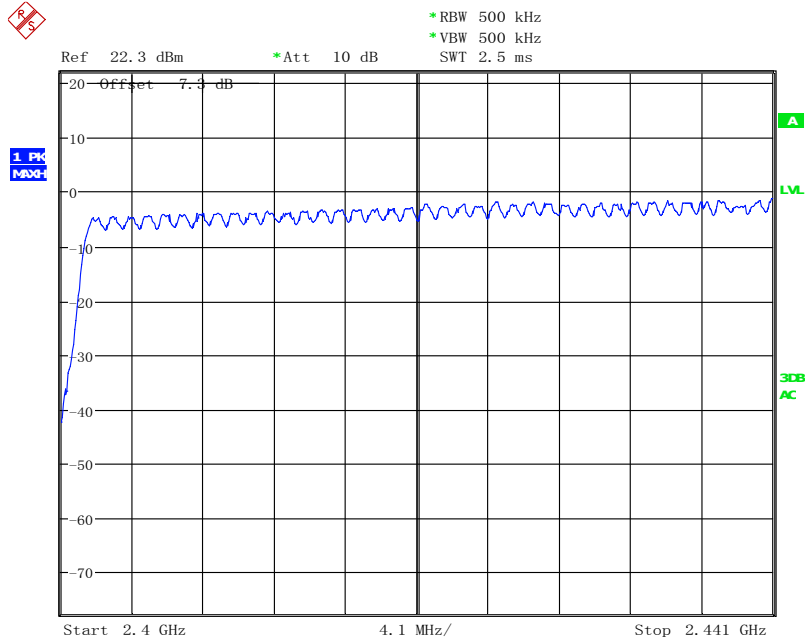
Date: 11. FEB. 2015 18:17:12



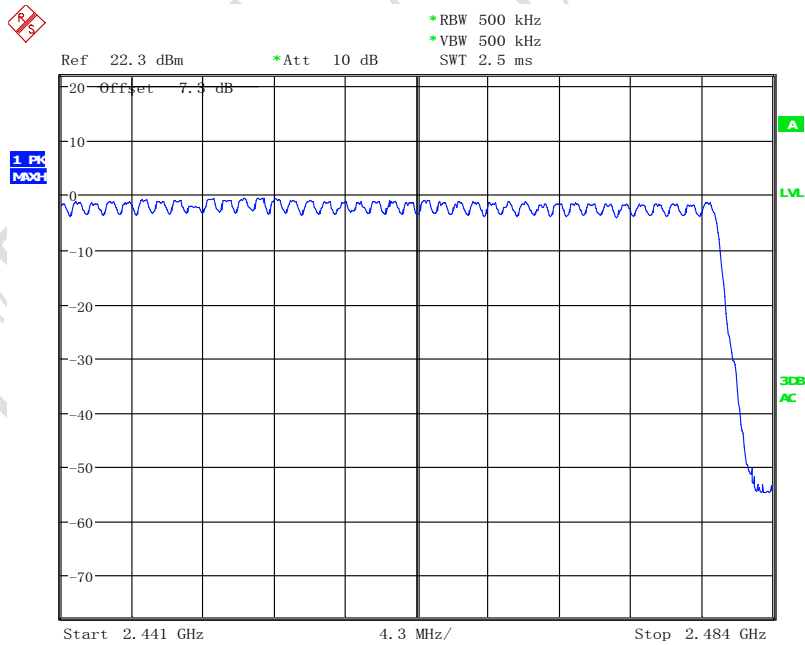
Date: 11. FEB. 2015 18:16:26



Channel Number (8DPSK)



Date: 11. FEB. 2015 18:22:04



Date: 11. FEB. 2015 18:26:02

### 4.5 Time of occupancy

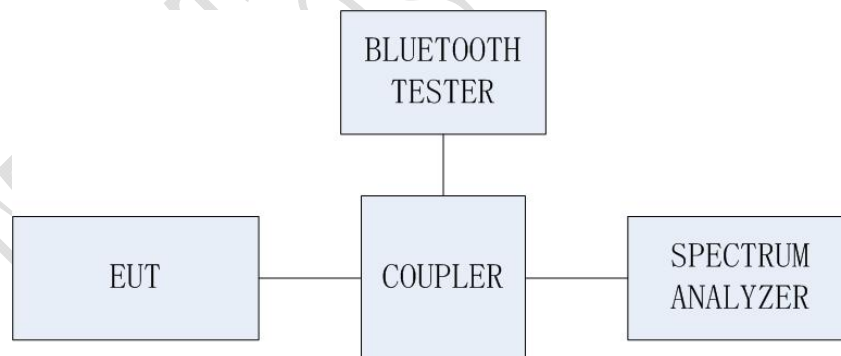
<b>Specifications:</b>	15.247(a)(1)(iii)					
<b>Date of Test</b>	2015-02-06					
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
<b>Operation Mode</b>	Fix channel					
<b>Test Results:</b>	Pass					
<b>Test equipment Used:</b>						
Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	EMI Test Receiver	R/S	ESU40	100350	2015-03-07	Normal
2	Wireless Connectivity Test Set	Agilent	N4010A	MY52070357	2015-03-05	Normal

#### LIMIT

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400 MHz - 2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

#### Test Setup

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupler.



#### TEST PROCEDURE

The spectrum analyzer is set to:

1. Span = zero span
2. RBW = 1 MHz
3. VBW = 3 MHz
4. Sweep = as necessary to capture the entire dwell time per channel

The marker-delta function was used to determine the dwell time.

**The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.10-2013.**

Test Result:

GFSK DH1:

$0.3702 \times (1600/2) / 79 \times 31.6 = 118\text{ms}$

Pulse time[ms]	Total dwell[ms]	Period time[s]	result
0.3702	118	31.6	PASS

GFSK DH3:

$1.638 \times (1600/4) / 79 \times 31.6 = 262\text{ms}$

Pulse time[ms]	Total dwell[ms]	Period time[s]	result
1.638	262	31.6	PASS

GFSK DH5:

$2.856 \times (1600/6) / 79 \times 31.6 = 305\text{ms}$

Pulse time[ms]	Total dwell[ms]	Period time[s]	result
2.856	305	31.6	PASS

Pi/4 DQPSK 2DH1:

$0.3750 \times (1600/2) / 79 \times 31.6 = 120\text{ms}$

Pulse time[ms]	Total dwell[ms]	Period time[s]	result
0.3750	120	31.6	PASS

Pi/4 DQPSK 2DH3:

$1.627 \times (1600/4) / 79 \times 31.6 = 260\text{ms}$

Pulse time[ms]	Total dwell[ms]	Period time[s]	result
1.627	260	31.6	PASS

Pi/4 DQPSK 2DH5:

$2.853 \times (1600/6) / 79 \times 31.6 = 304\text{ms}$

Pulse time[ms]	Total dwell[ms]	Period time[s]	result
2.853	304	31.6	PASS

8DPSK 3DH1:

$$0.3702 \times (1600/2) / 79 \times 31.6 = 118\text{ms}$$

Pulse time[ms]	Total dwell[ms]	Period time[s]	result
0.3702	118	31.6	PASS

8DPSK 3DH3:

$$1.638 \times (1600/4) / 79 \times 31.6 = 262\text{ms}$$

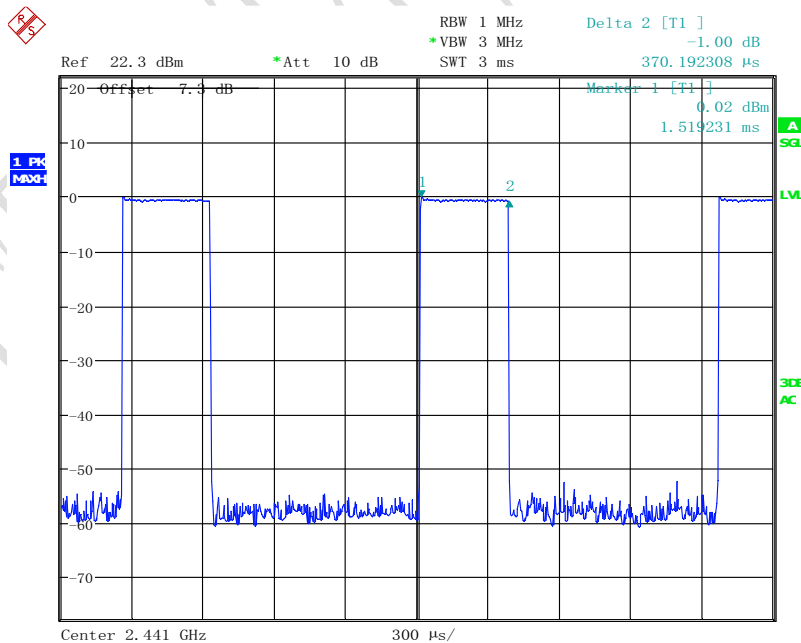
Pulse time[ms]	Total dwell[ms]	Period time[s]	result
1.638	262	31.6	PASS

8DPSK 3DH5:

$$2.888 \times (1600/6) / 79 \times 31.6 = 308\text{ms}$$

Pulse time[ms]	Total dwell[ms]	Period time[s]	result
2.888	308	31.6	PASS

Test data:  
GFSK DH1

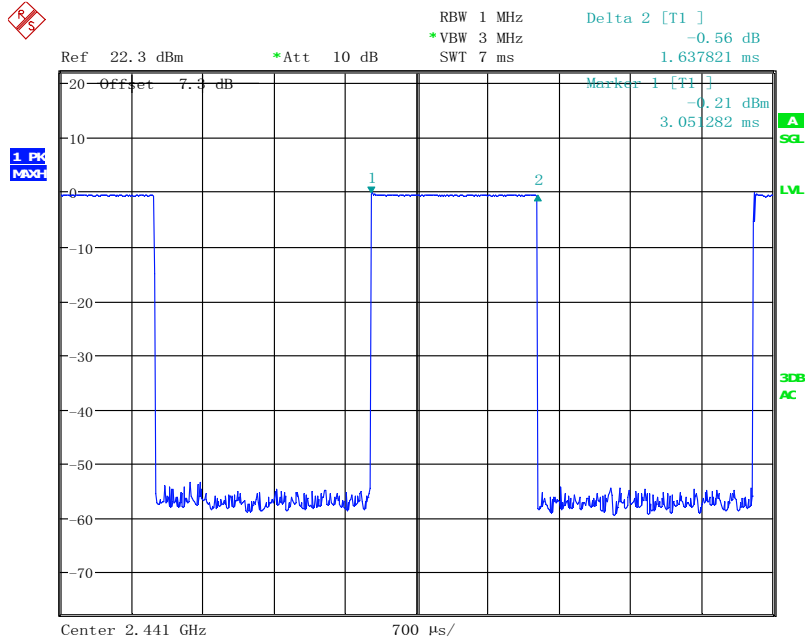


Date: 11.FEB.2015 18:57:01

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

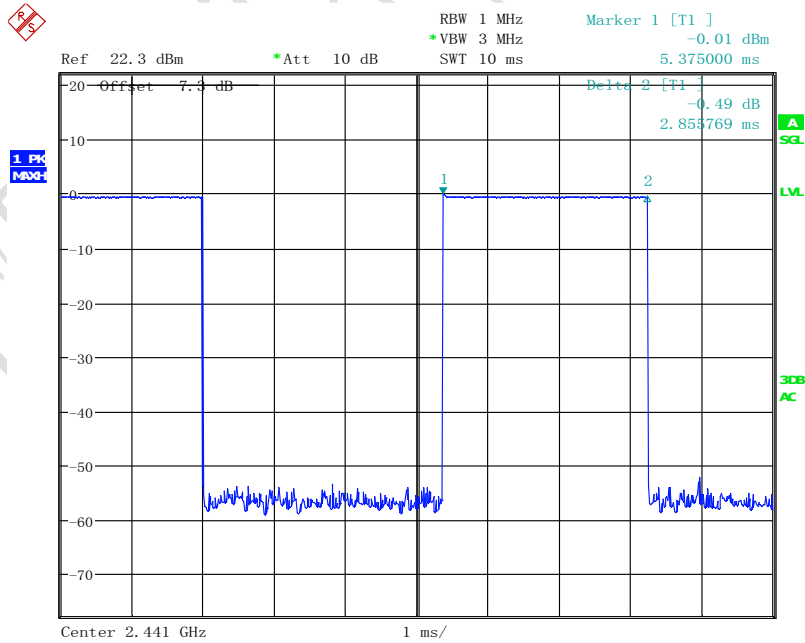
REPORT NO.:B15X50050-FCC-BT\_Rev2

### GFSK DH3



Date: 11.FEB.2015 18:58:03

### GFSK DH5

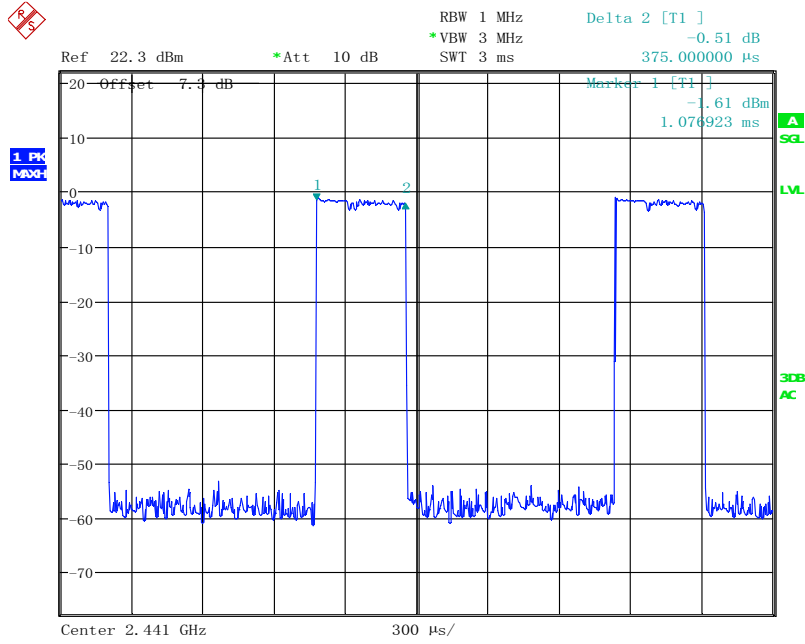


Date: 11.FEB.2015 18:58:50

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

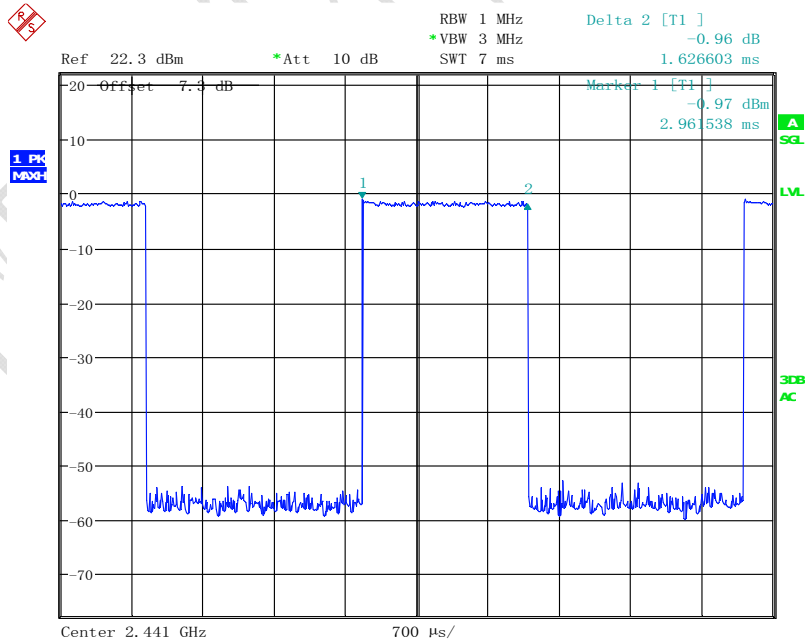
REPORT NO.:B15X50050-FCC-BT\_Rev2

### Pi/4 DQPSK 2DH1



Date: 11.FEB.2015 18:53:21

### Pi/4 DQPSK 2DH3

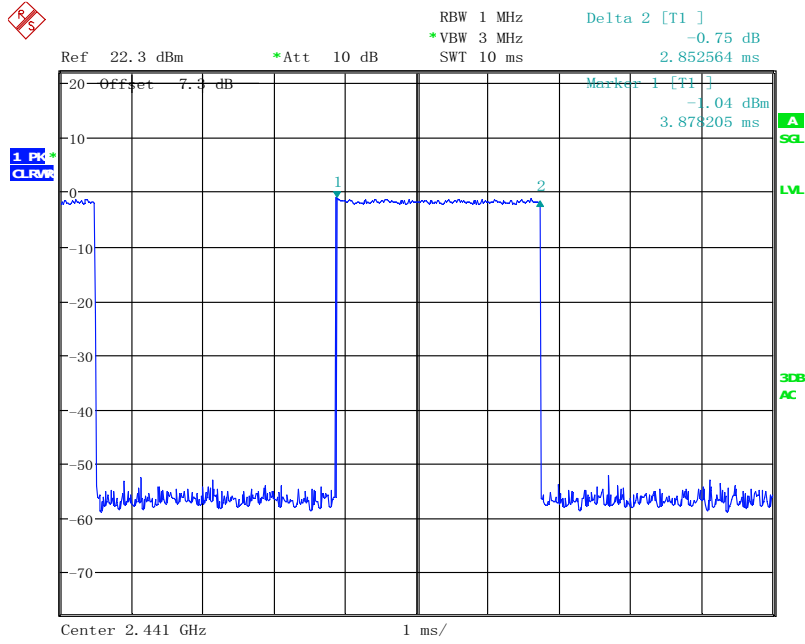


Date: 11.FEB.2015 18:52:29

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

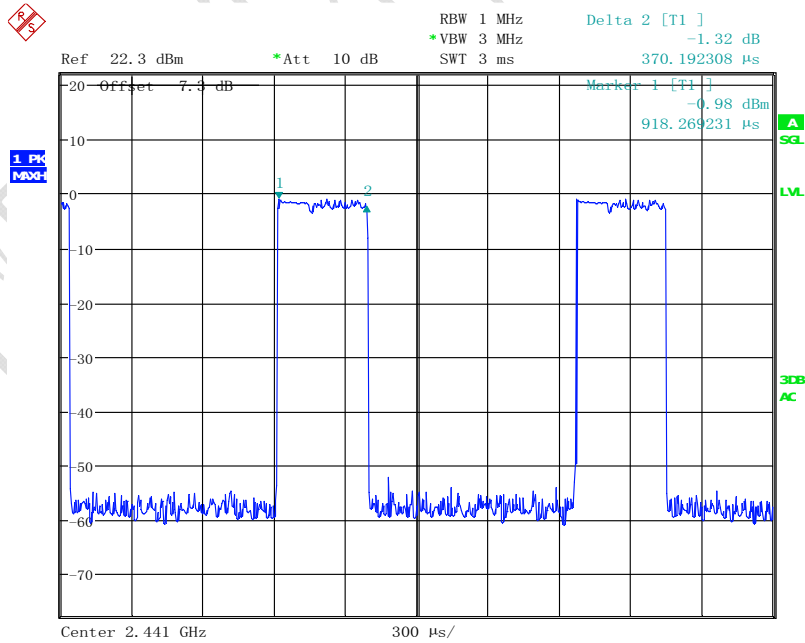
REPORT NO.:B15X50050-FCC-BT\_Rev2

### Pi/4 DQPSK 2DH5



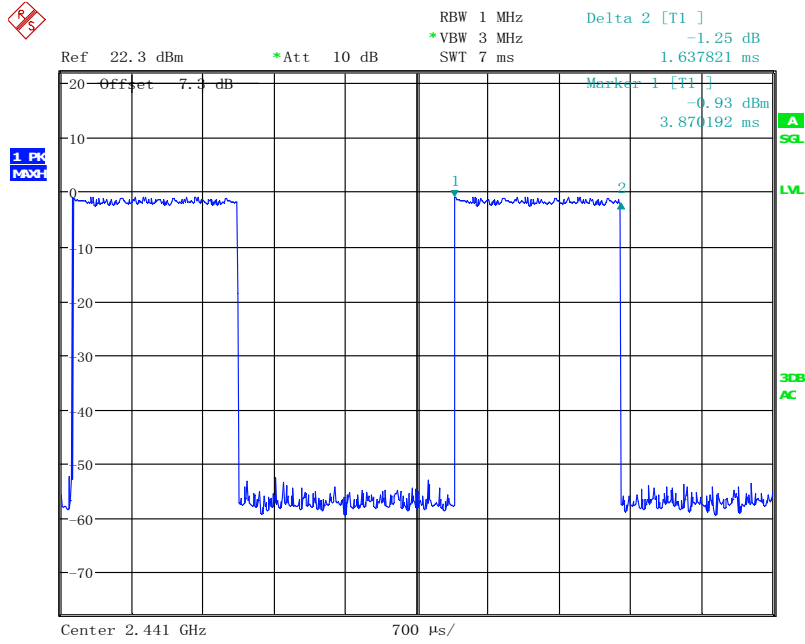
Date: 11.FEB.2015 18:51:31

### 8DPSK 3DH1



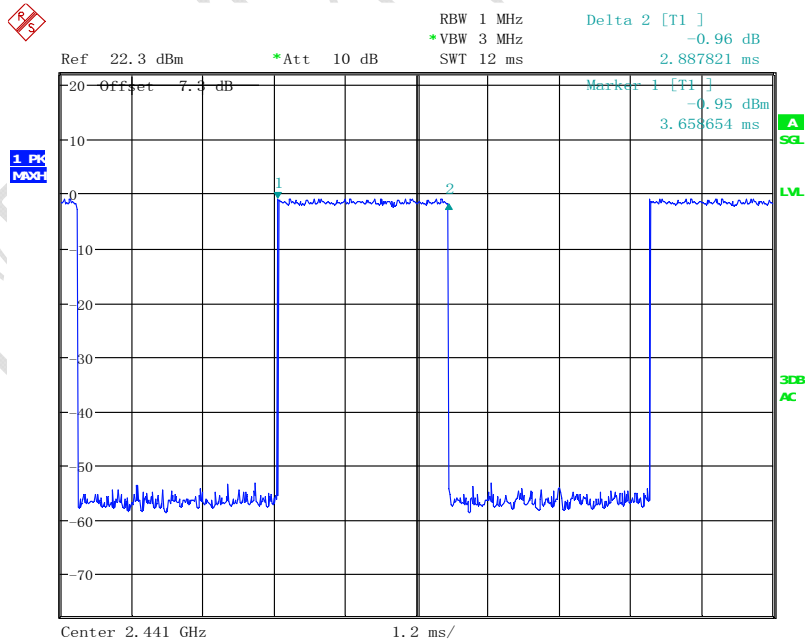
Date: 11.FEB.2015 18:54:04

8DPSK 3DH3



Date: 11.FEB.2015 18:54:48

8DPSK 3DH5



Date: 11.FEB.2015 18:55:19



### 4.6 Spurious Measurement (Conducted)

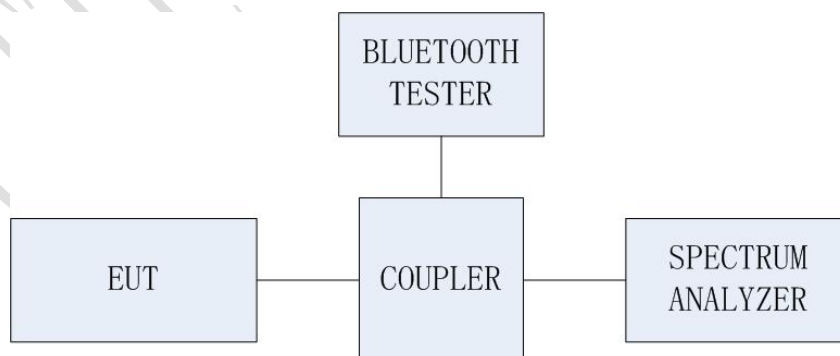
<b>Specifications:</b>	15.209(a) and 15.205(a)					
<b>Date of Test</b>	2015-02-12					
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
<b>Operation Mode</b>	Fix channel transmit					
<b>Test Results:</b>	Pass					
<b>Test equipment Used:</b>						
Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	EMI Test Receiver	R/S	ESU40	100350	2015-03-07	Normal
2	Wireless Connectivity Test Set	Agilent	N4010A	MY52070357	2015-03-05	Normal

#### LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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) (see Section 15.205(c)).

#### Test Setup

The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a coupler.



#### TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site. The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz. Measurements are made over the 30 MHz to 26 GHz range with the transmitter set to the lowest, middle, and highest

channels.

**The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.10-2013.**

**Test Result:**

GFSK

Channel	Frequency Range	Results
0	Center Frequency	Pass
	30 MHz - 1 GHz	Pass
	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass
39	Center Frequency	Pass
	30 MHz - 1 GHz	Pass
	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass
78	Center Frequency	Pass
	30 MHz - 1 GHz	Pass
	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass

Pi/4 DQPSK

Channel	Frequency Range	Results
0	Center Frequency	Pass
	30 MHz - 1 GHz	Pass
	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass
39	Center Frequency	Pass
	30 MHz - 1 GHz	Pass

	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass
78	Center Frequency	Pass
	30 MHz - 1 GHz	Pass
	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass

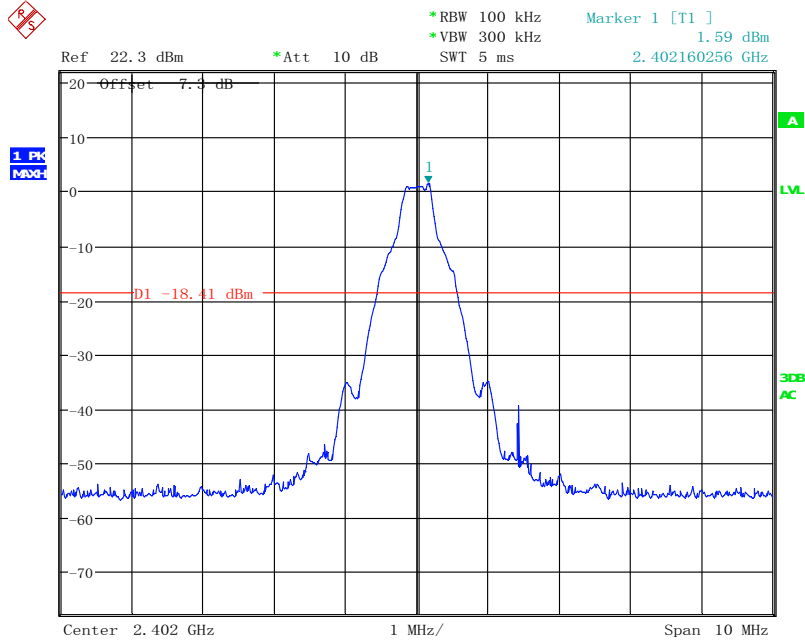
8DPSK

Channel	Frequency Range	Results
0	Center Frequency	Pass
	30 MHz - 1 GHz	Pass
	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass
39	Center Frequency	Pass
	30 MHz - 1 GHz	Pass
	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass
78	Center Frequency	Pass
	30 MHz - 1 GHz	Pass
	1 GHz - 3 GHz	Pass
	3 GHz - 10 GHz	Pass
	10 GHz - 26.5 GHz	Pass

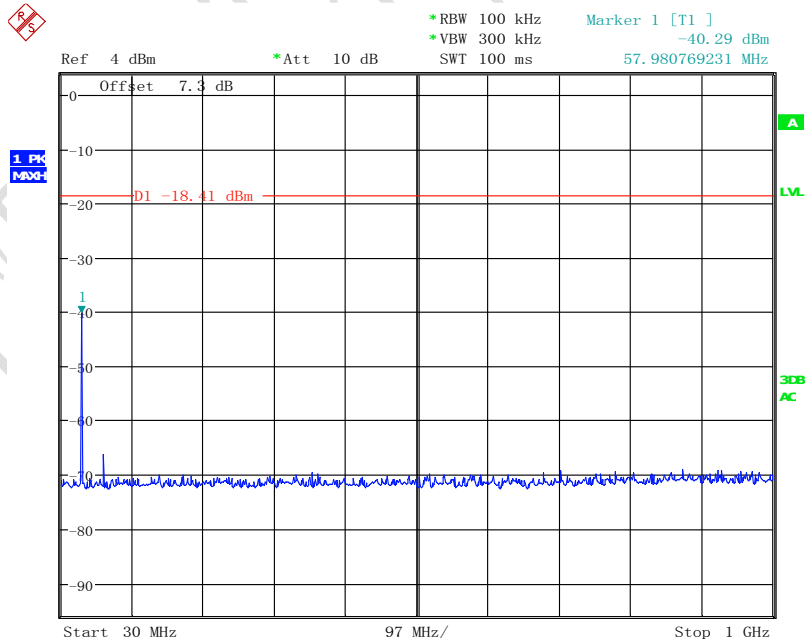
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2

Test plots:  
GFSK Channel 0



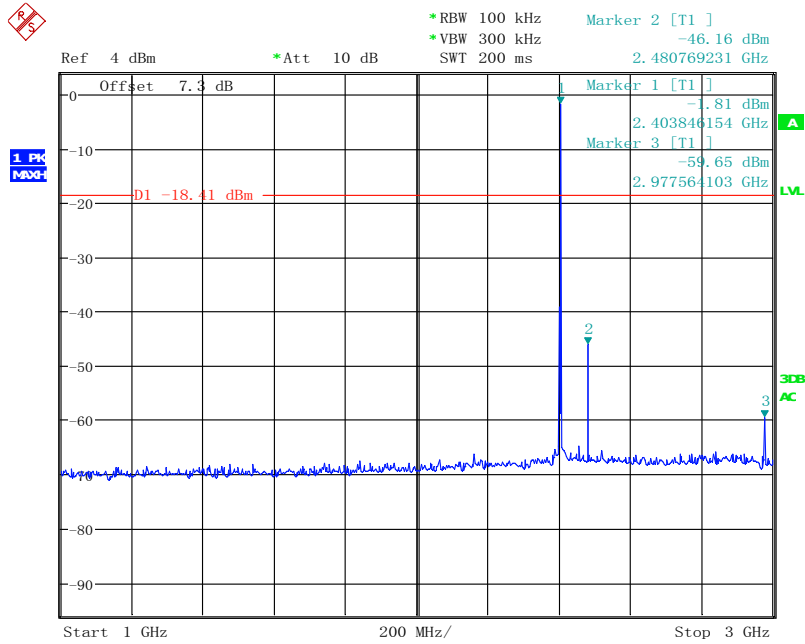
Date: 12.FEB.2015 10:51:31



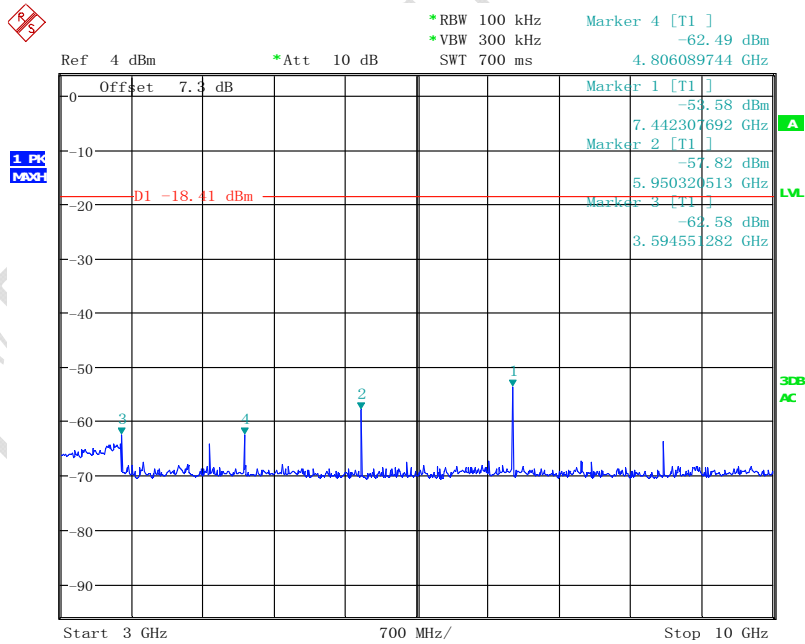
Date: 12.FEB.2015 10:52:44

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



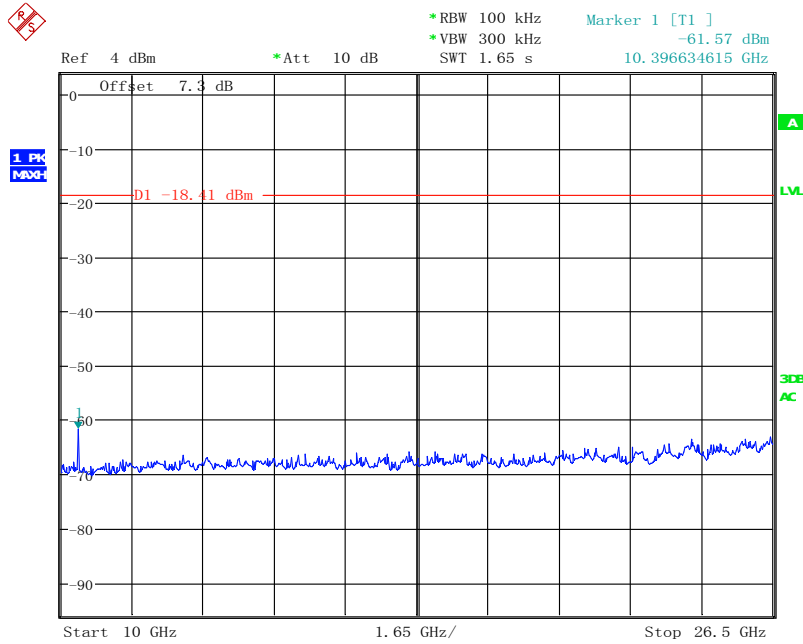
Date: 12.FEB.2015 10:53:33



Date: 12.FEB.2015 10:55:02

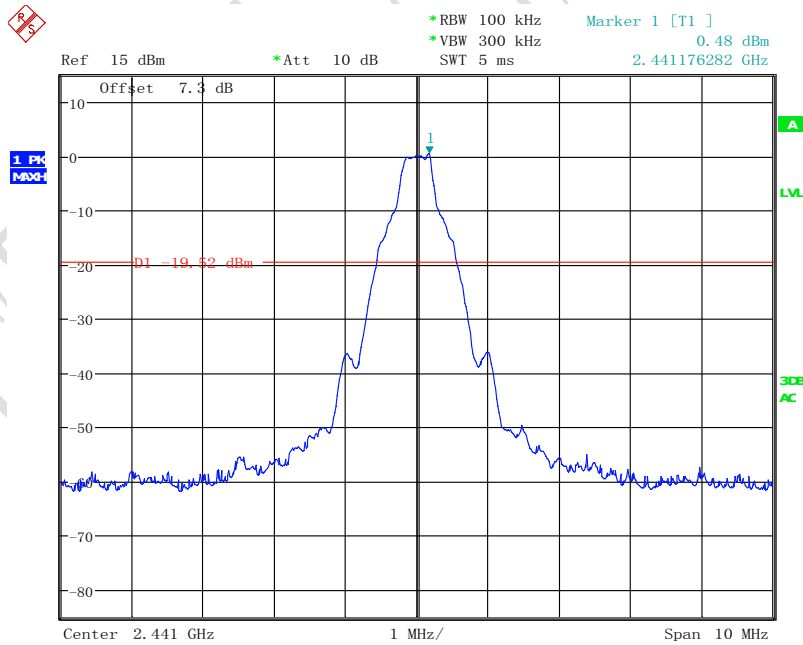
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



Date: 12.FEB.2015 10:56:05

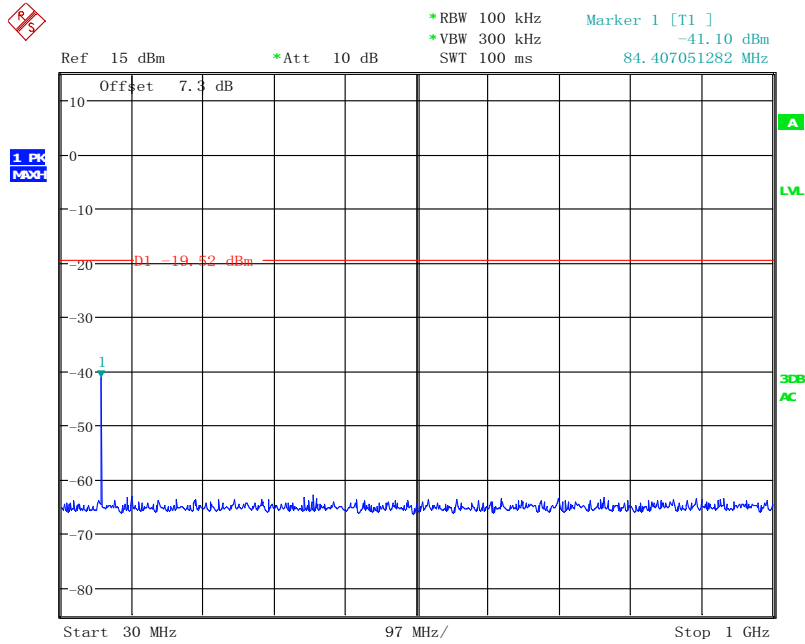
### GFSK Channel 39



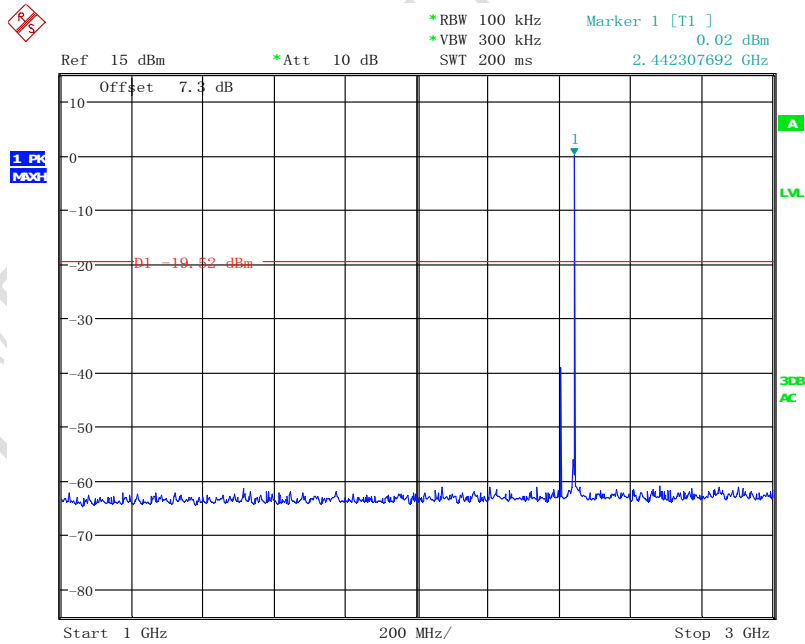
Date: 12.FEB.2015 10:58:58

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



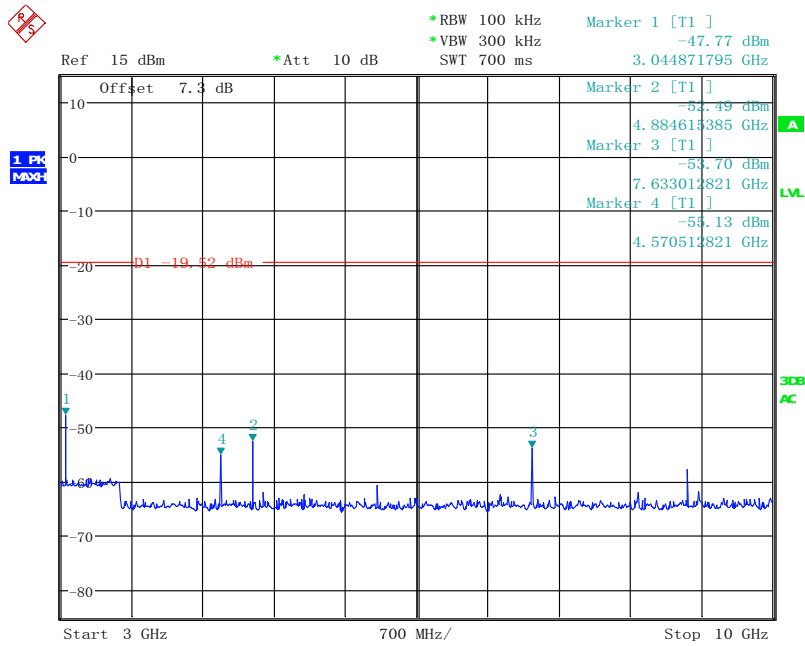
Date: 12.FEB.2015 11:03:07



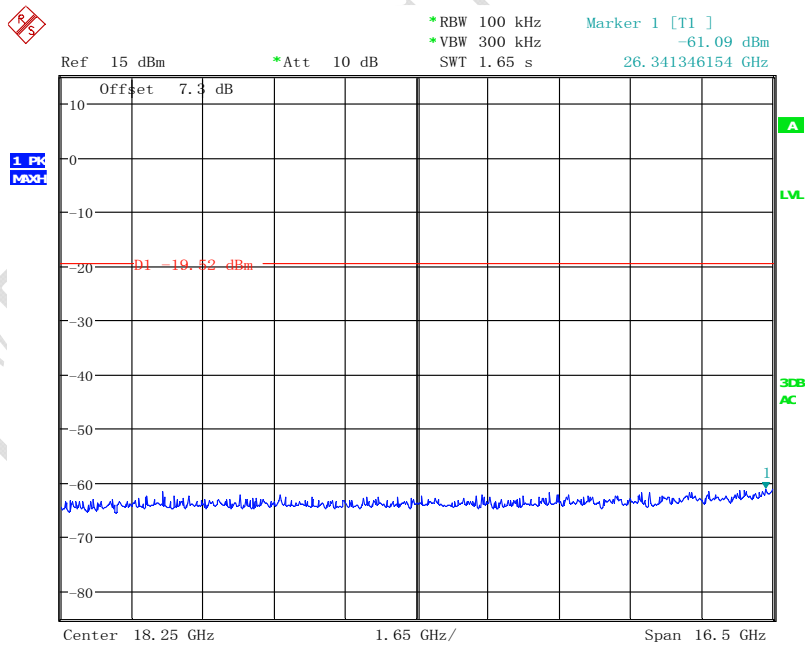
Date: 12.FEB.2015 11:03:37

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
 Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



Date: 12.FEB.2015 11:04:32



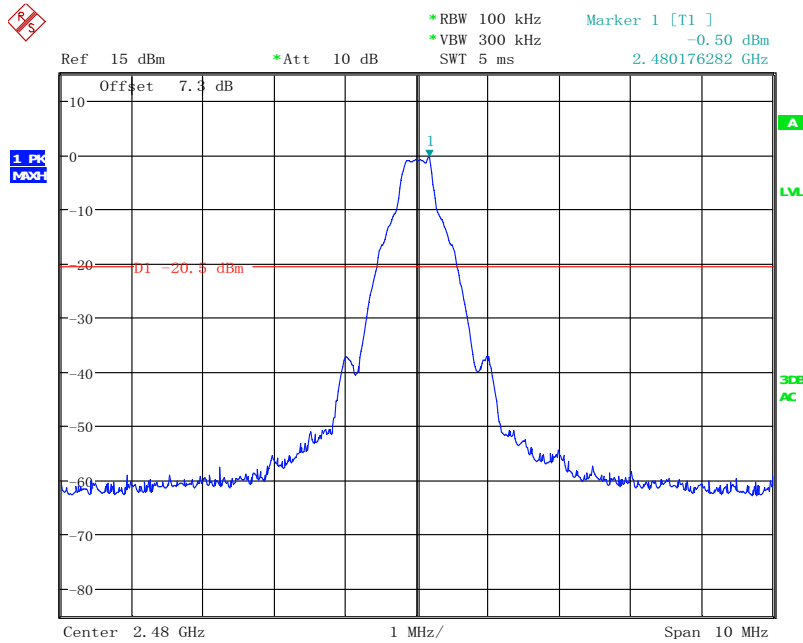
Date: 12.FEB.2015 11:05:16



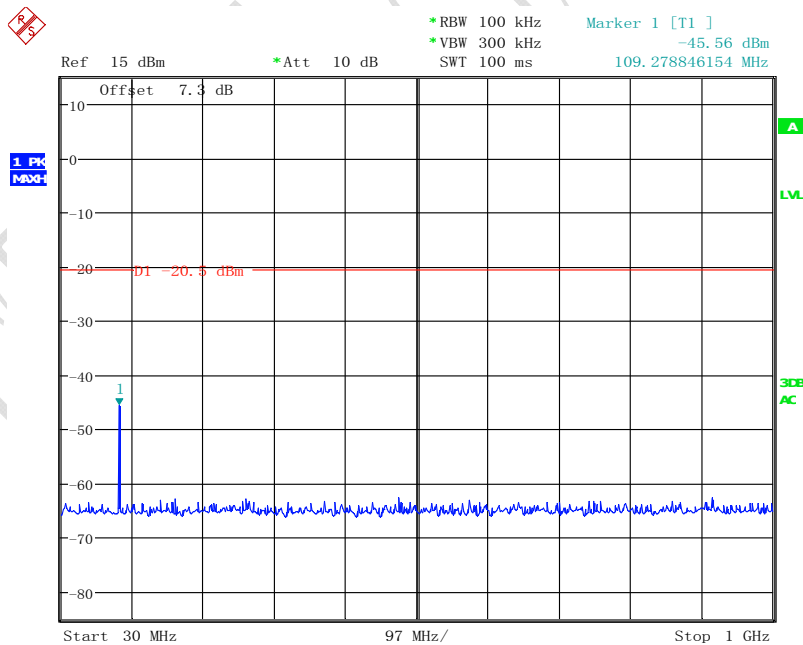
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2

GFSK Channel 78



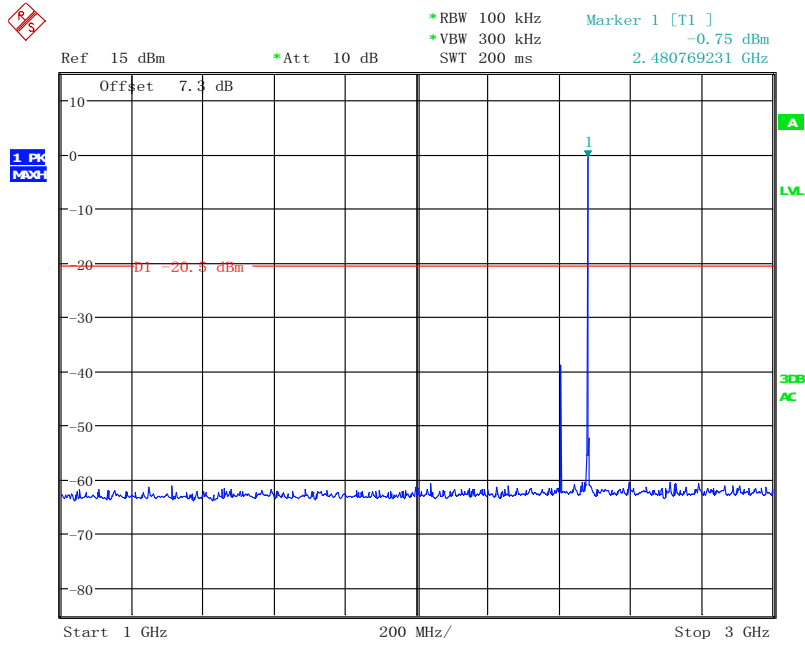
Date: 12. FEB. 2015 11:07:40



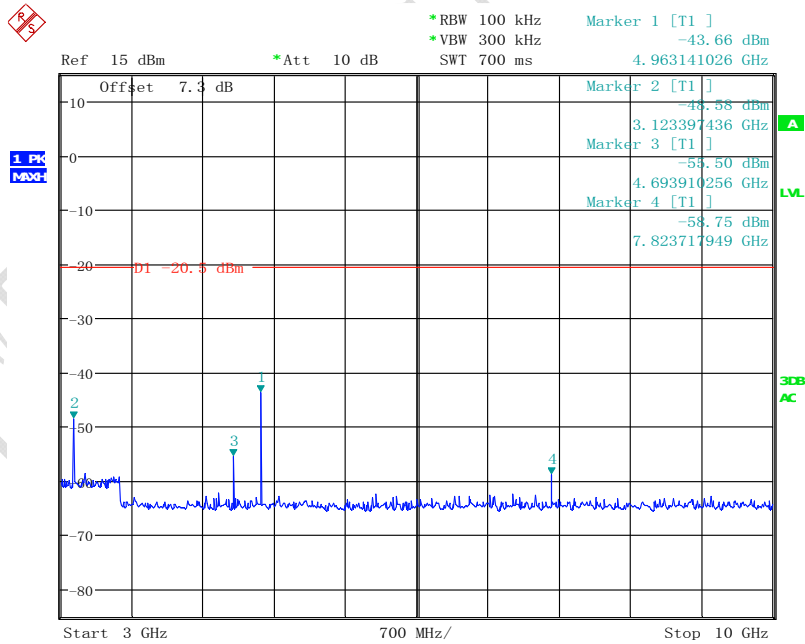
Date: 12. FEB. 2015 11:08:12

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



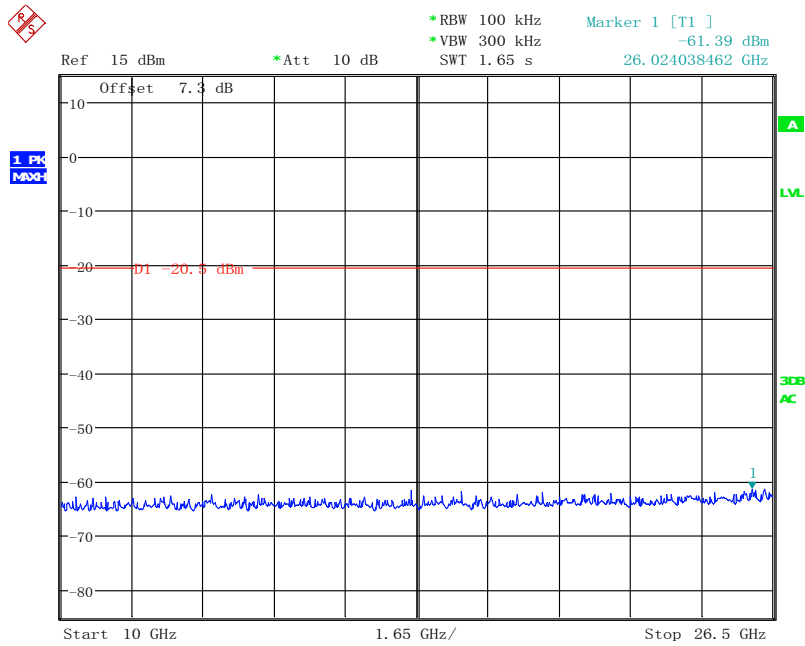
Date: 12.FEB.2015 11:09:24



Date: 12.FEB.2015 11:10:42

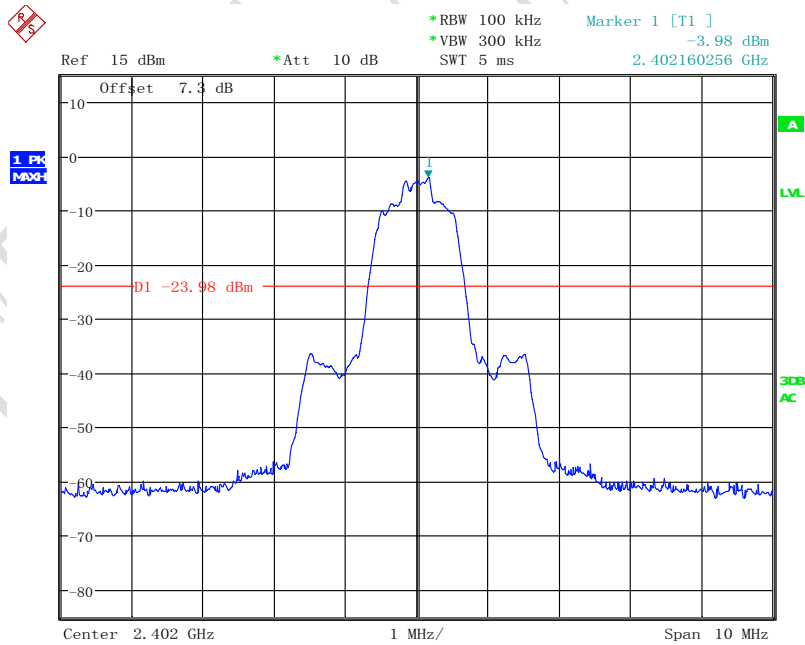
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



Date: 12. FEB. 2015 11:11:43

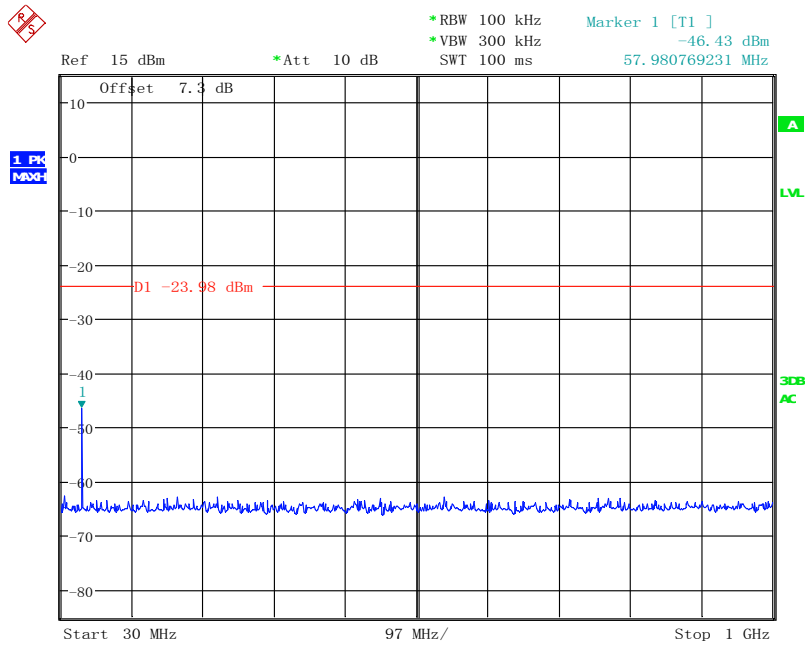
### Pi/4 DQPSK Channel 0



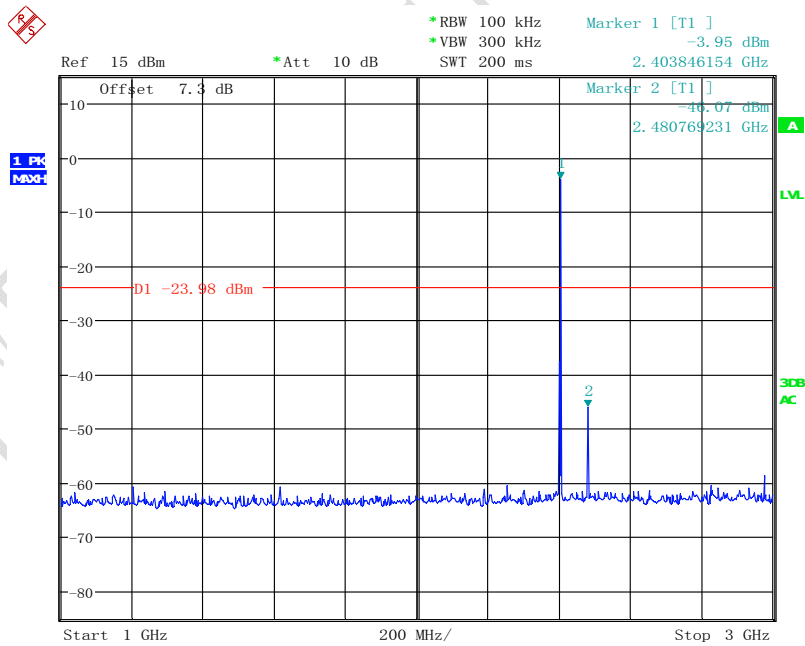
Date: 12. FEB. 2015 11:16:36

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



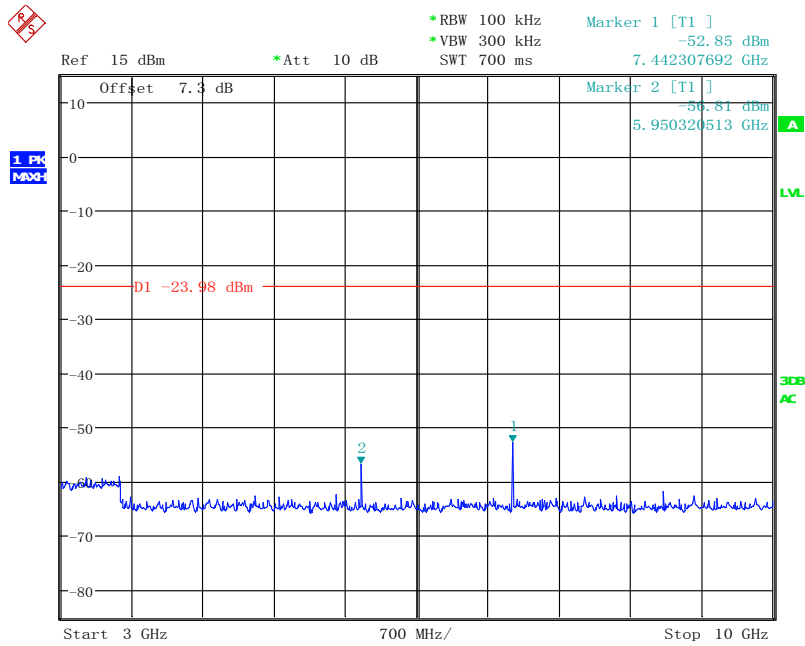
Date: 12.FEB.2015 11:17:23



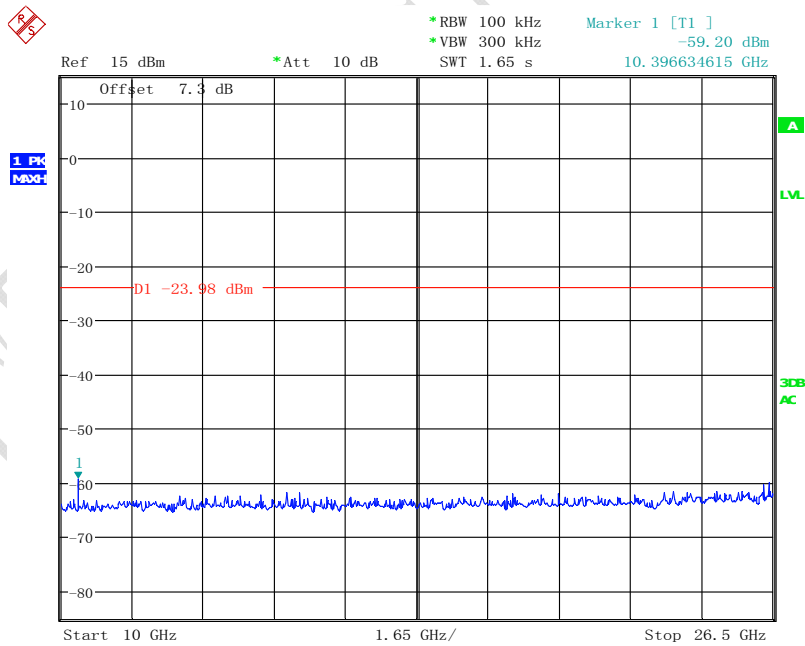
Date: 12.FEB.2015 11:17:49

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
 Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



Date: 12.FEB.2015 11:18:24

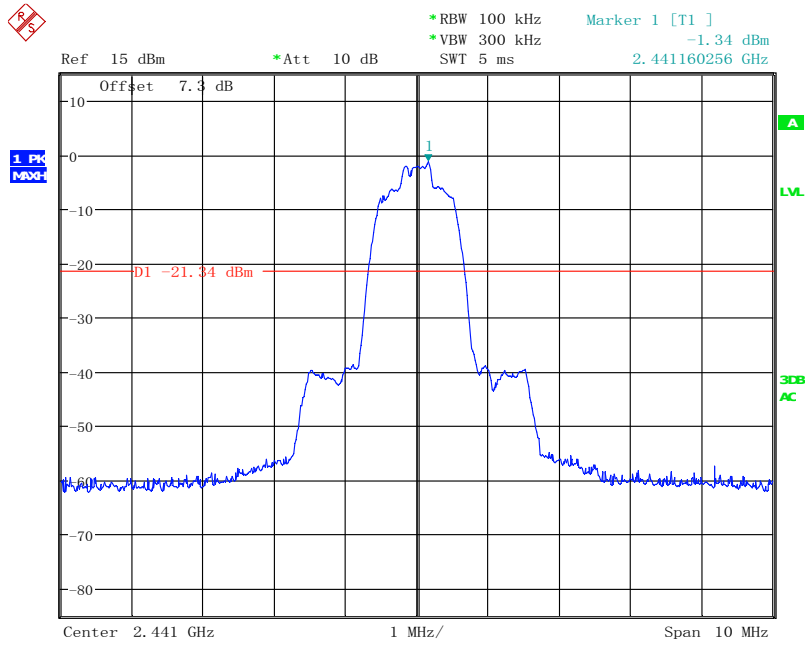


Date: 12.FEB.2015 11:18:57

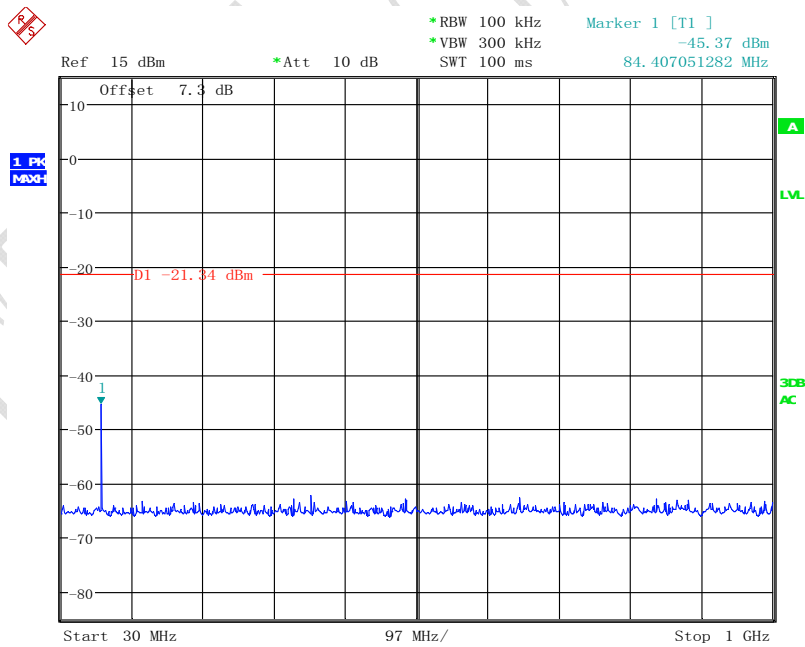
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2

Pi/4 DQPSK Channel 39



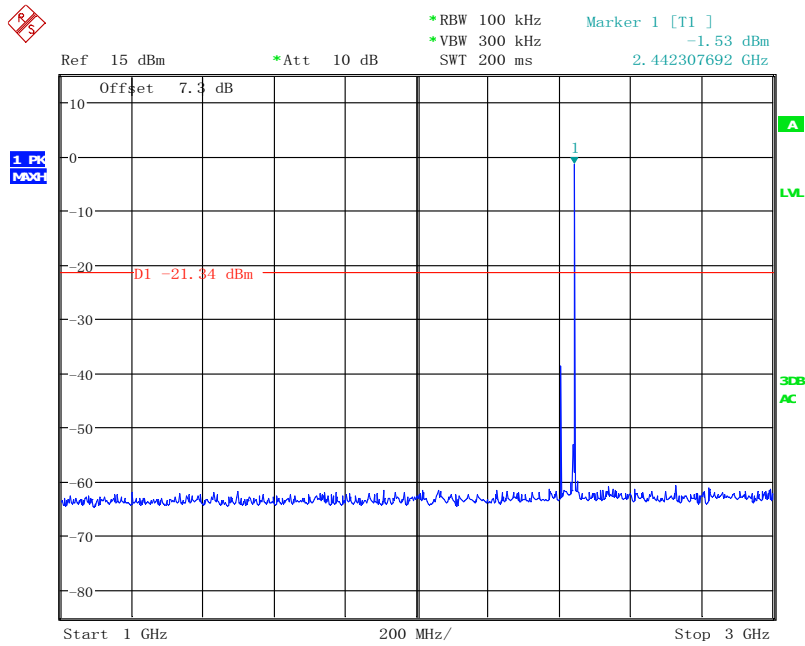
Date: 12. FEB. 2015 11:20:01



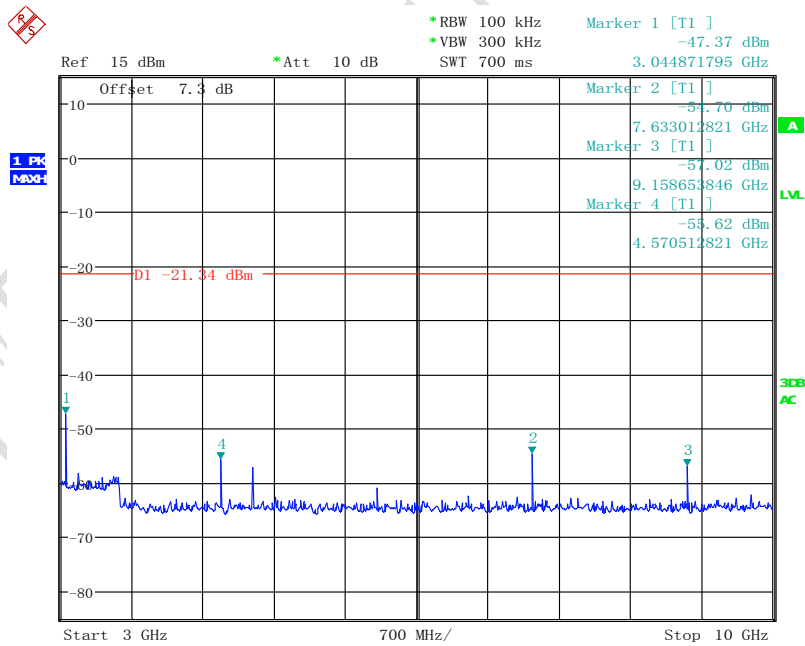
Date: 12. FEB. 2015 11:20:24

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



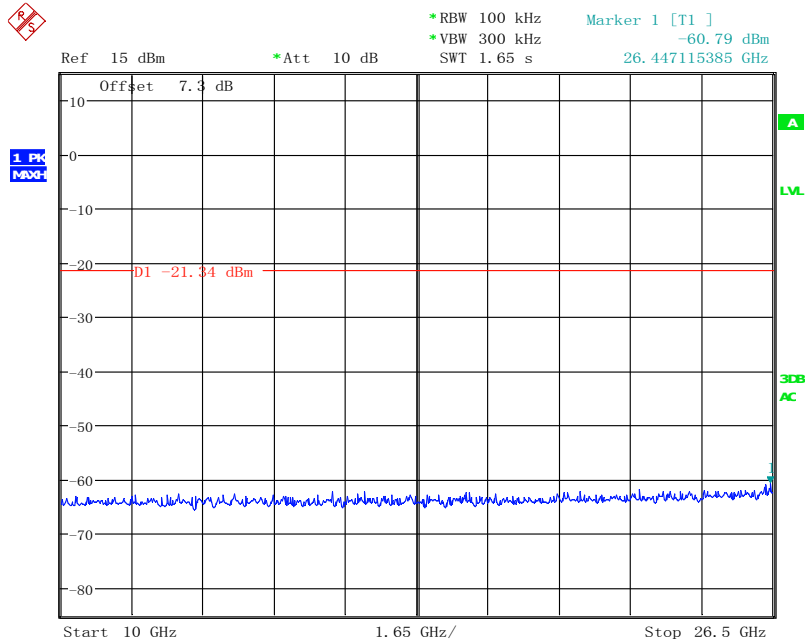
Date: 12.FEB.2015 11:20:51



Date: 12.FEB.2015 11:21:28

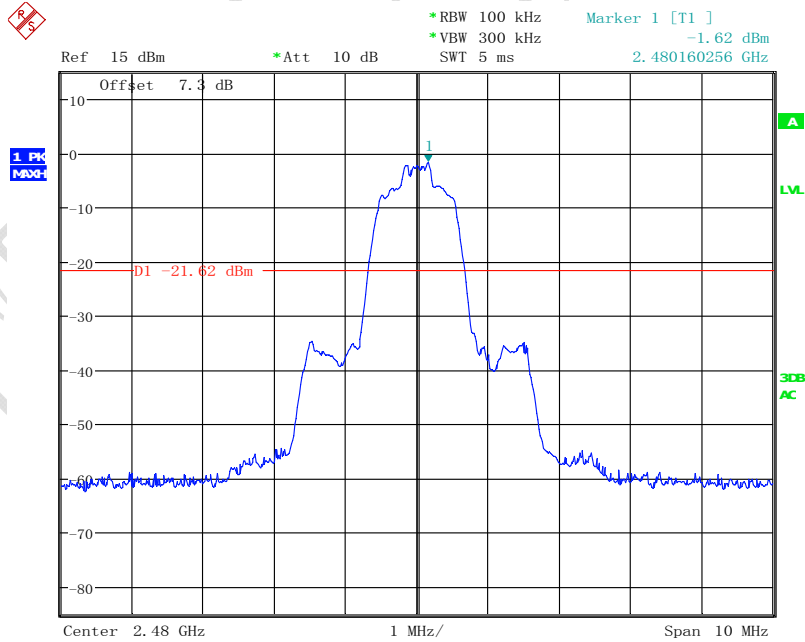
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



Date: 12.FEB.2015 11:22:00

### Pi/4 DQPSK Channel 78

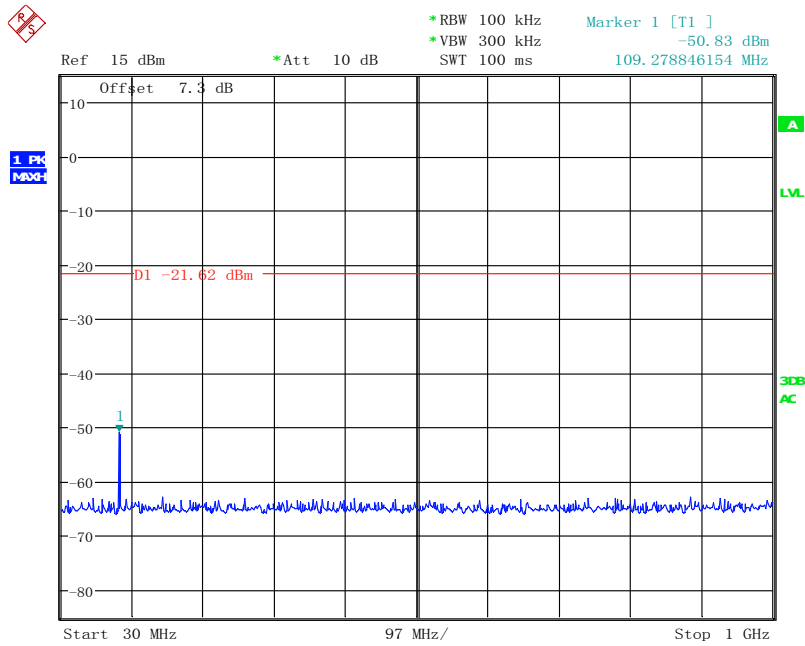


Date: 12.FEB.2015 11:23:49

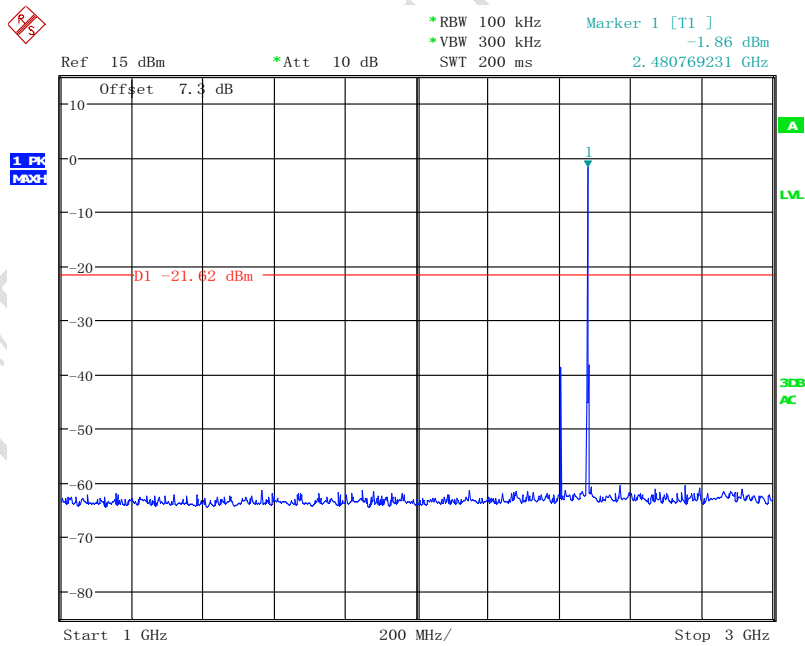


FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



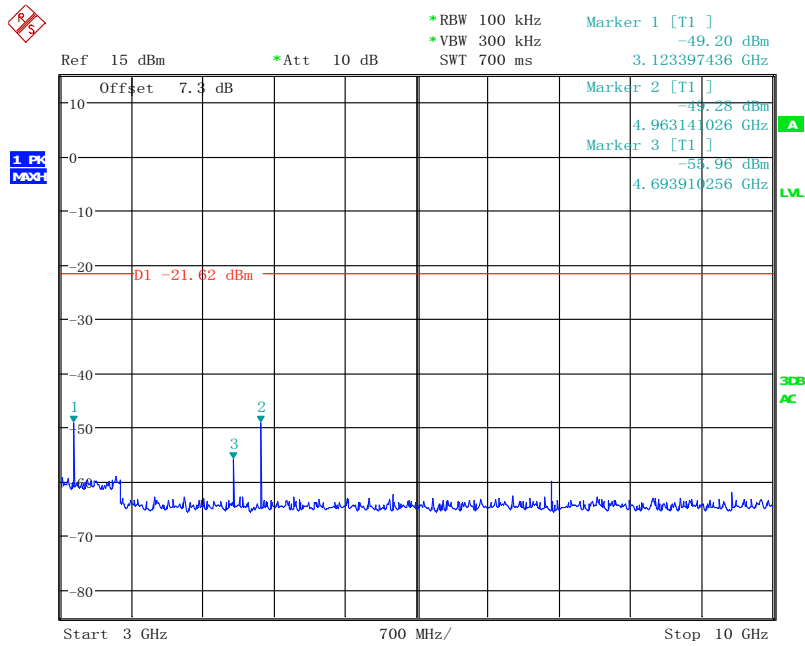
Date: 12.FEB.2015 11:24:14



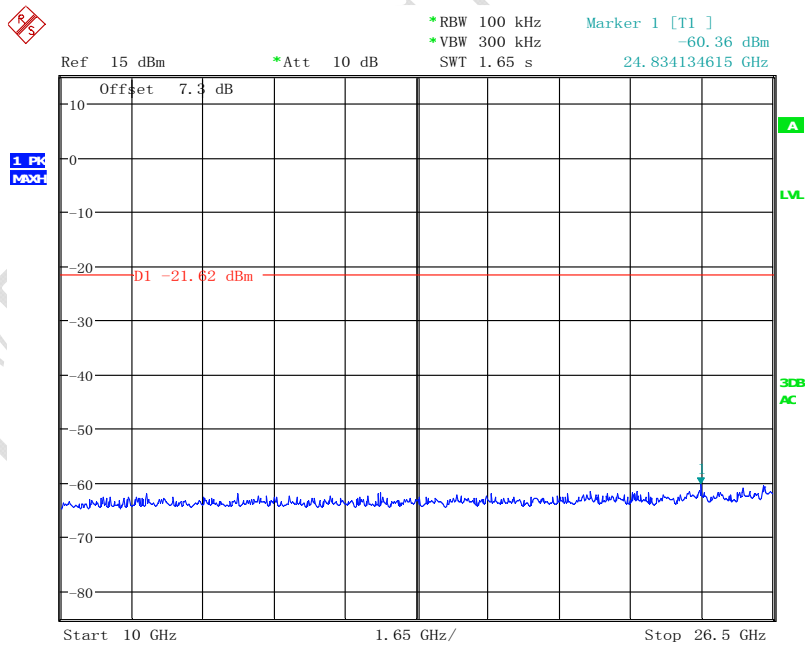
Date: 12.FEB.2015 11:24:41

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2

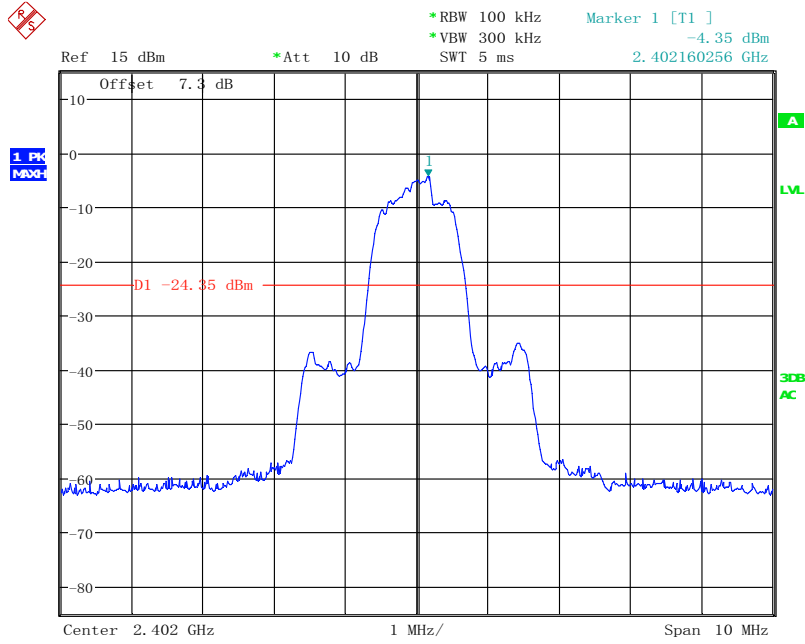


Date: 12.FEB.2015 11:25:16

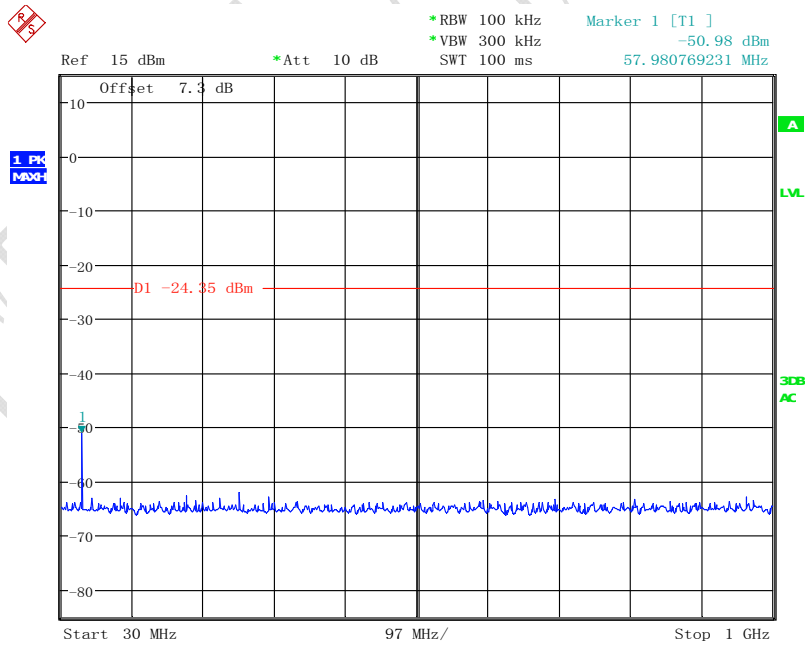


Date: 12.FEB.2015 11:26:15

8DPSK Channel 0



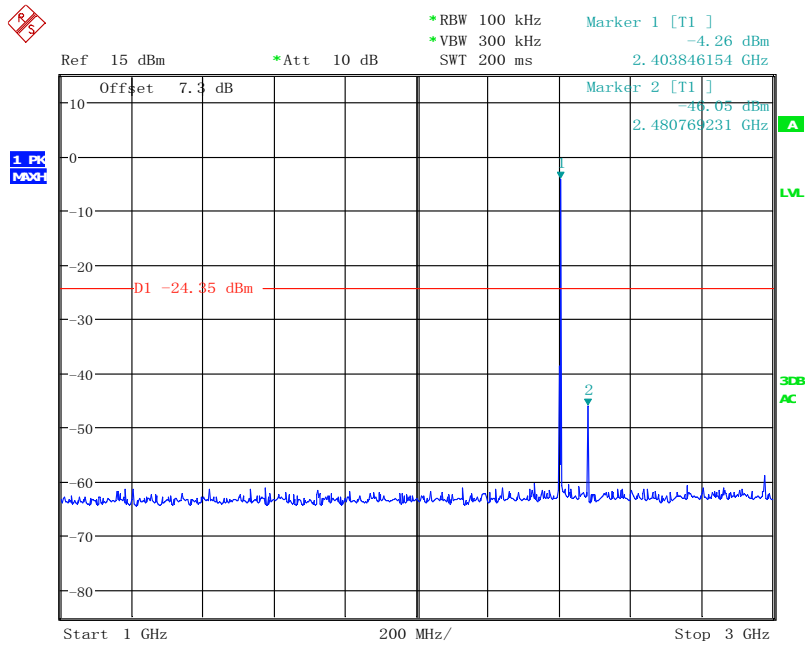
Date: 12. FEB. 2015 11:29:20



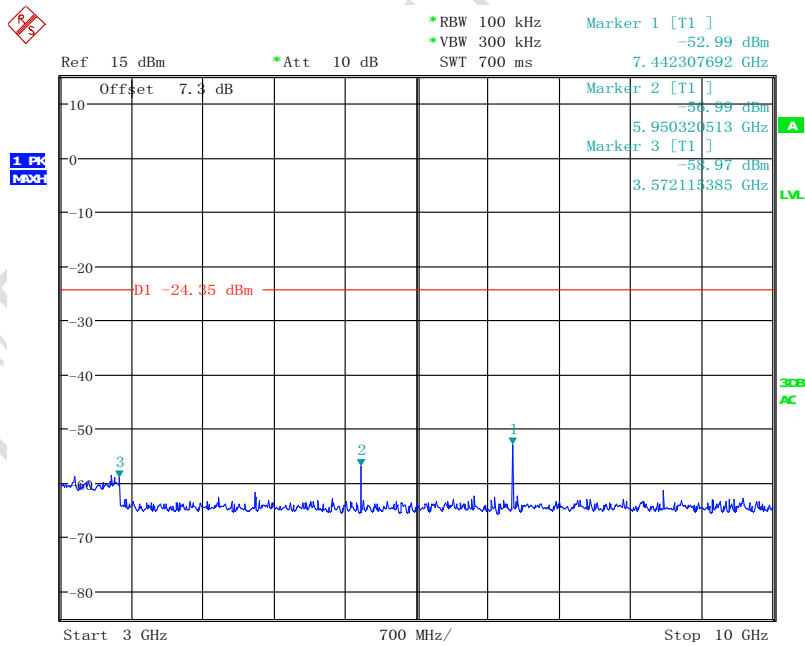
Date: 12. FEB. 2015 11:29:44

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



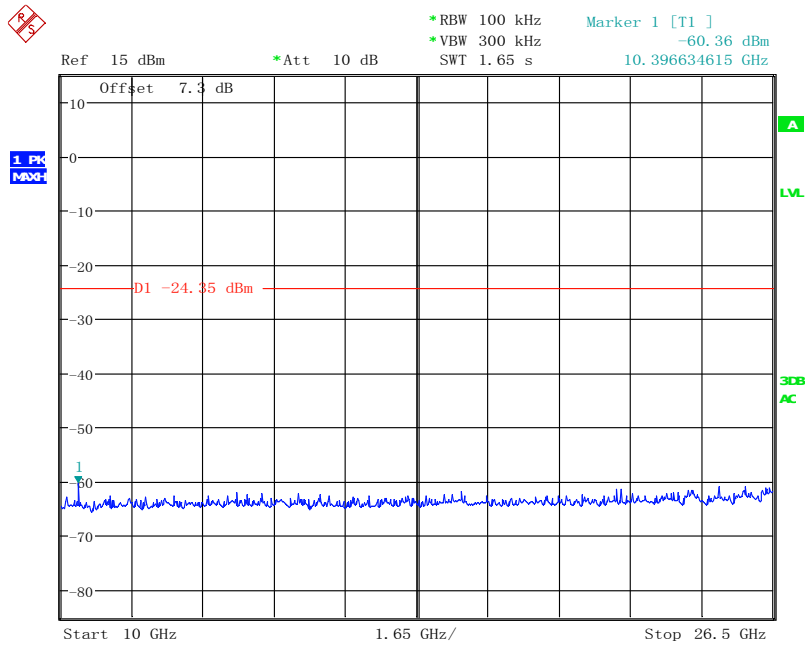
Date: 12.FEB.2015 11:30:12



Date: 12.FEB.2015 11:30:48

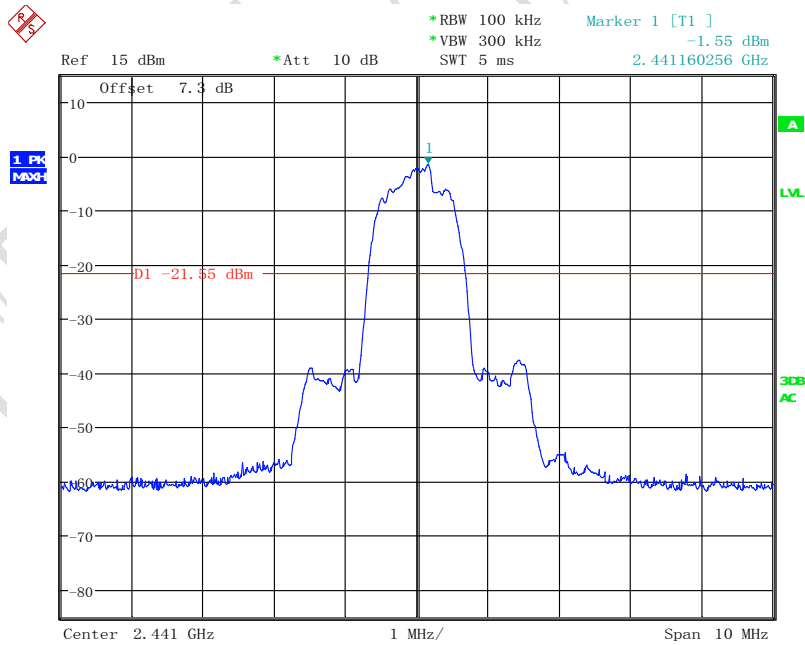
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
 Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



Date: 12. FEB. 2015 11:31:22

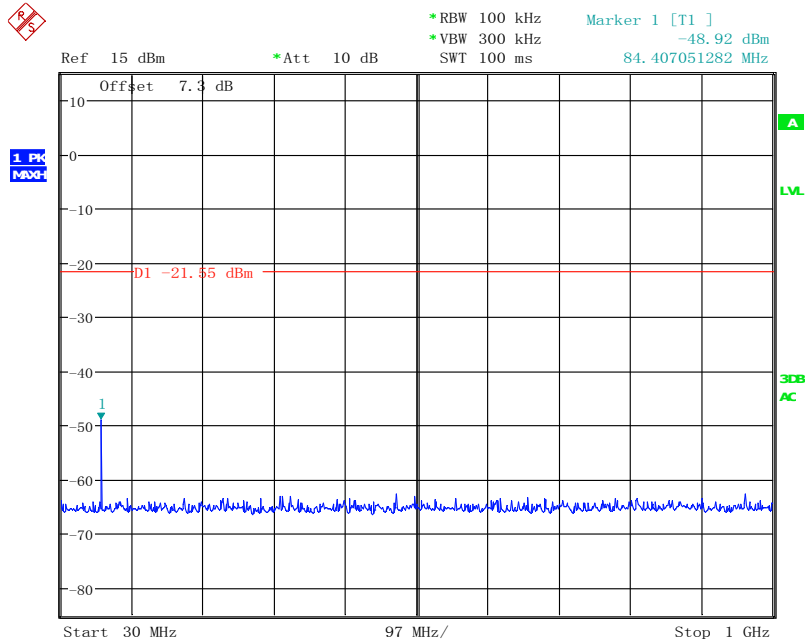
8DPSK Channel 39



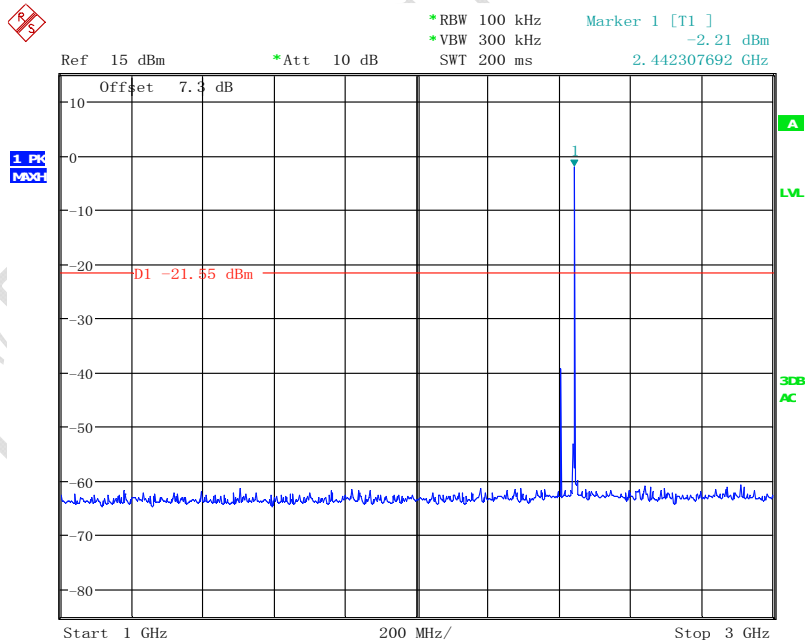
Date: 12. FEB. 2015 11:32:32

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



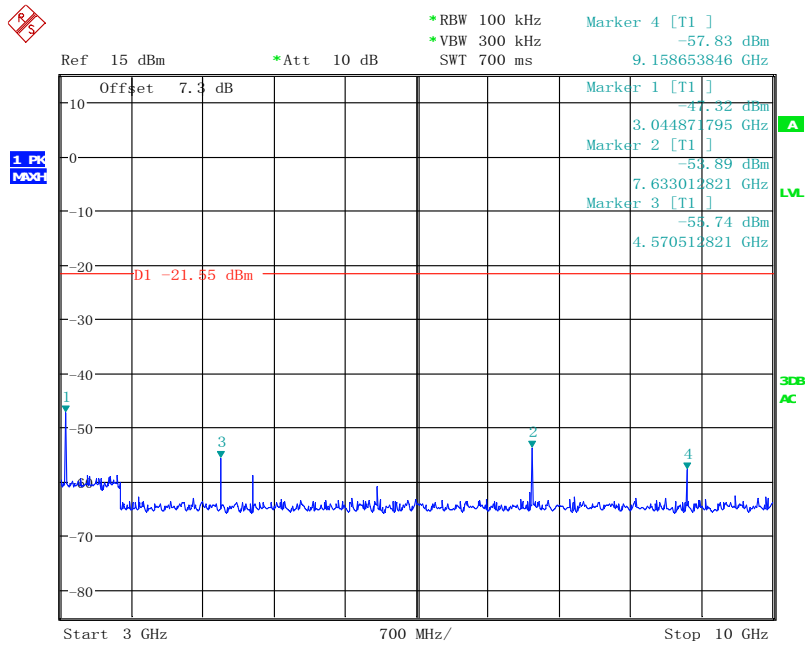
Date: 12.FEB.2015 11:32:49



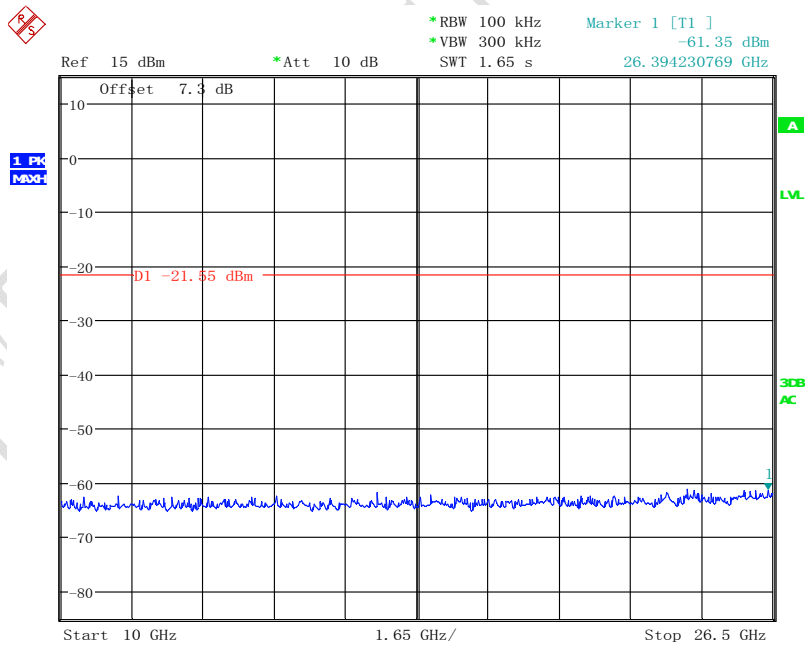
Date: 12.FEB.2015 11:33:13

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



Date: 12.FEB.2015 11:33:46

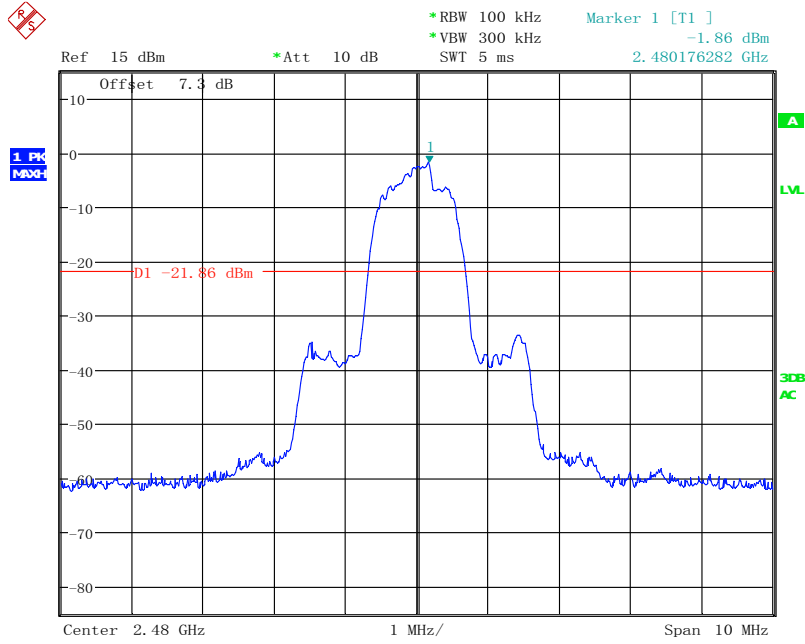


Date: 12.FEB.2015 11:34:20

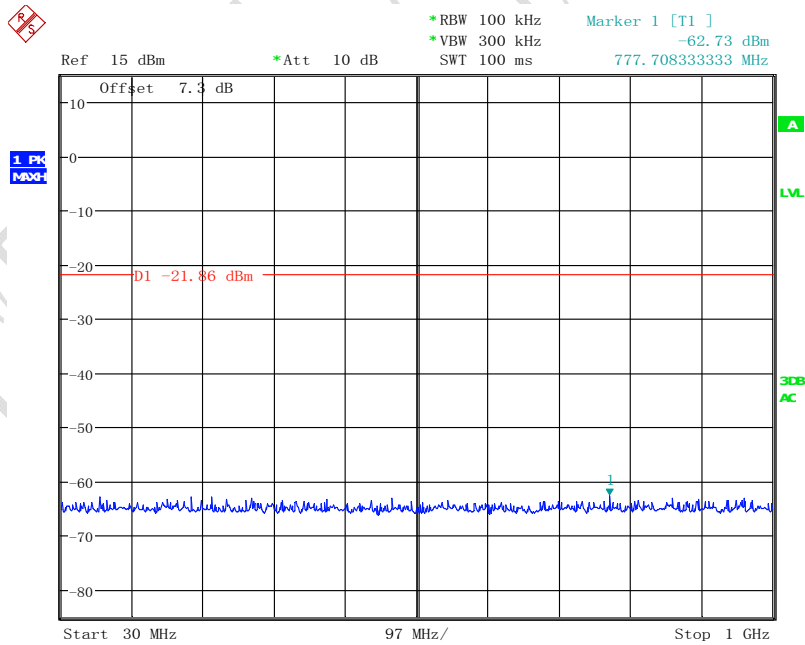
FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2

8DPSK Channel 78



Date: 12. FEB. 2015 11:35:34

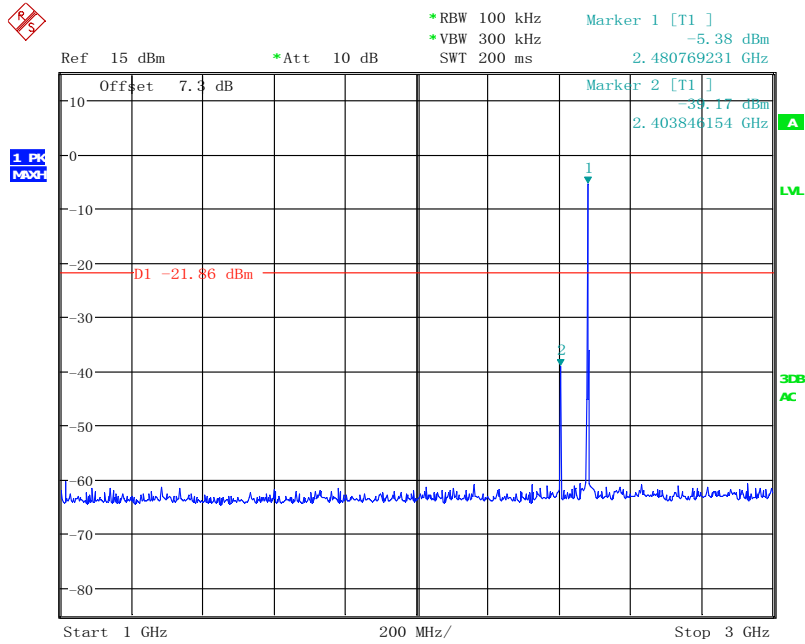


Date: 12. FEB. 2015 11:35:57

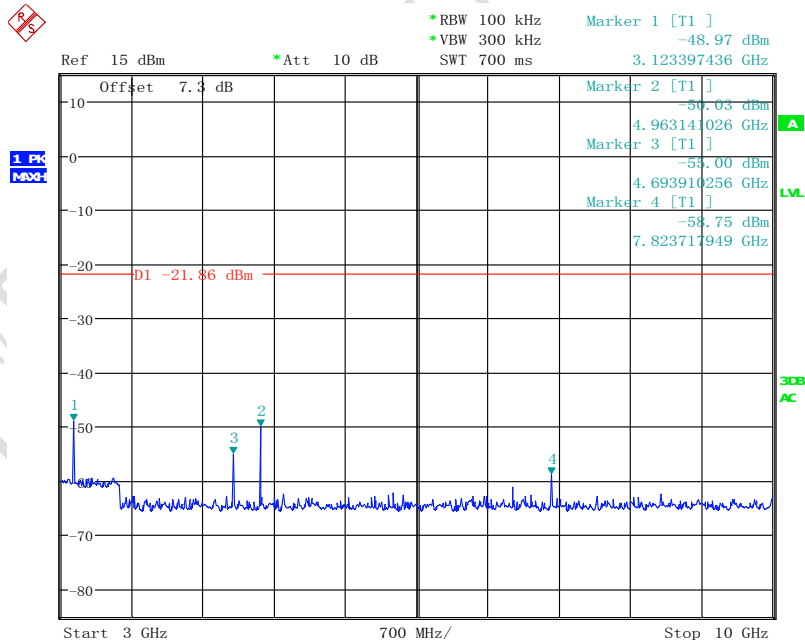


FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
 Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



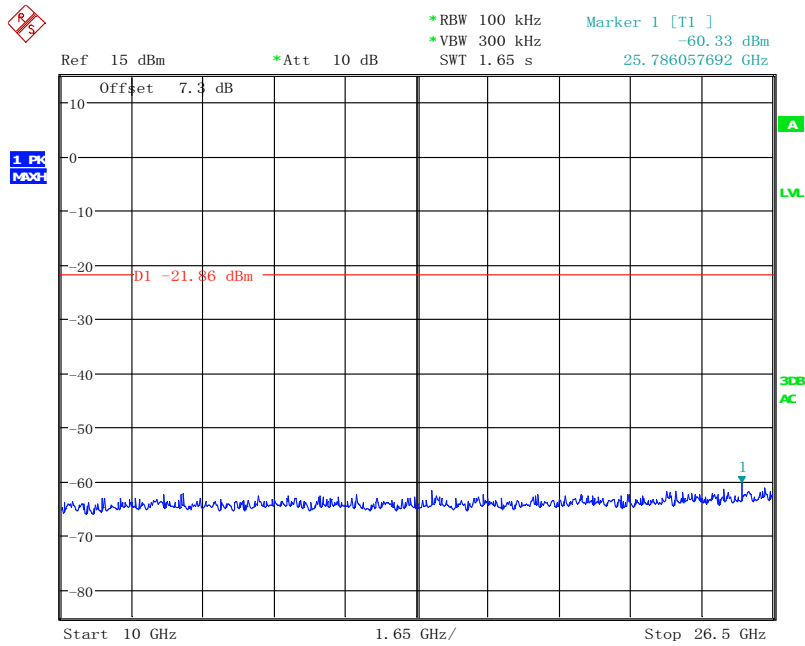
Date: 12.FEB.2015 11:36:20



Date: 12.FEB.2015 11:36:59

FCC Parts 15 subpart C, ANSI C63.10-2013, FCC DA 00-705  
Equipment: Ilium X400

REPORT NO.:B15X50050-FCC-BT\_Rev2



Date: 12.FEB.2015 11:37:22

CTTL TEST 11

### 4.7 Radiated Emission Measurement

<b>Specifications:</b>	15.209(a) and 15.205(a)					
<b>Date of Test</b>	2015-02-28					
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
<b>Operation Mode</b>	Fix channel transmit					
<b>Test Results:</b>	Pass					
<b>Test equipment Used:</b>						
Number	Description	Manufacturer	Model Number	Serial Number	Cal Due	State
1	EMI Test Receiver	R&S	ESU26	100367	2015-03-07	Normal
2	Fully-Anechoic Chamber	ETS	FACT3-2	--	2015-08-20	Normal
3	Wireless Connectivity Test Set	Agilent	N4010A	MY52070357	2015-03-05	Normal
4	Ultra Broadband Antenna	R/S	VULB 9163	vulb9163-544	2015-12-13	Normal
5	Double-Ridged Horn Antenna	R/S	HF907	100357	2015-12-13	Normal

#### Limit:

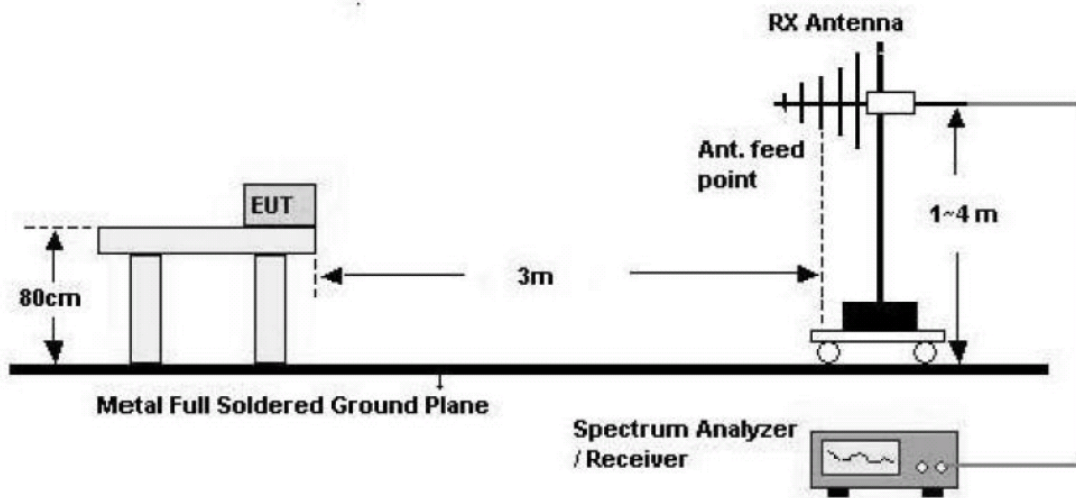
1. 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed

Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

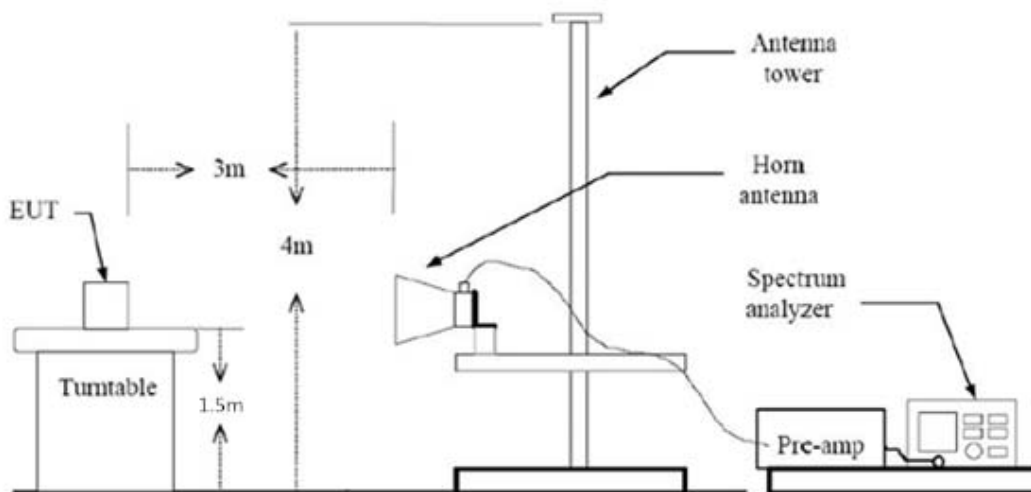
#### Test Setup

The EUT was placed in an anechoic chamber. The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a Bilog antenna (for frequency 30MHz-1GHz) or a horn antenna (for frequency above 1GHz).

30MHz-1GHz:



Above 1GHz:



### TEST PROCEDURE

1. The EUT is placed on a turntable.
2. The turntable shall be rotated for 360 degrees on EUT's x, y and z axis to determine the position of maximum emission level.
3. EUT is set 3 m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.

**The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.4-2014.**

Test Settings:

Frequency Range (MHz)	RBW/VBW	Sweep time (s)
30 – 1000	100kHz/300kHz	5
1000 – 4000	1MHz/3MHz	15
4000 – 18000	1MHz/3MHz	40
18000 – 26500	1MHz/3MHz	20

Note: Considering the GFSK modulation with packet type DH5 has the maximum transmission power, so only this mode is tested.

Test result:

Channel	Frequency Range	Results
Channel 0	30MHz – 1GHz	Pass
	1 GHz – 3GHz	Pass
	2.38GHz-2.45GHz*	Pass
	3 GHz – 18 GHz	Pass
Channel 39	30MHz – 1GHz	Pass
	1 GHz – 3GHz	Pass
	2.4GHz-2.48GHz*	Pass
	3 GHz – 18 GHz	Pass
Channel 78	30MHz – 1GHz	Pass
	1 GHz – 3GHz	Pass
	2.45GHz-2.5GHz*	Pass
	3 GHz – 18 GHz	Pass
All channels	18GHz-26.5GHz	Pass

Note\*: these tests demonstrate the radiated band-edge test results

Channel 0:

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB $\mu$ V/m)
45.620000	27.7	120.000	115.0	V	187.0	12.3	40.0
176.10000	13.1	120.000	183.0	H	262.0	30.4	43.5
178.20100	12.9	120.000	183.0	H	262.0	30.6	43.5
187.54600	19.0	120.000	183.0	H	97.0	24.5	43.5
188.57700	17.3	120.000	99.0	H	97.0	26.2	43.5
288.02000	23.5	120.000	99.0	H	262.0	22.5	46.0

Channel 39:

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB $\mu$ V/m)
45.614000	30.3	120.000	99.0	V	269.0	9.7	40.0
178.60700	14.1	120.000	183.0	H	269.0	29.4	43.5
182.01400	18.7	120.000	116.0	H	97.0	14.8	43.5
183.55400	18.0	120.000	183.0	H	97.0	15.5	43.5
187.15200	18.0	120.000	183.0	H	97.0	15.5	43.5
187.51300	18.2	120.000	99.0	H	97.0	15.3	43.5

Channel 78:

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB $\mu$ V/m)
42.040000	13.8	120.000	99.0	V	277.0	26.2	40.0
42.434000	14.5	120.000	99.0	V	-1.0	25.5	40.0
45.626000	30.1	120.000	99.0	V	277.0	9.9	40.0
178.21300	14.2	120.000	216.0	H	97.0	29.3	43.5
184.43000	17.5	120.000	116.0	H	97.0	26.0	43.5
187.51000	19.1	120.000	183.0	H	90.0	14.4	43.5

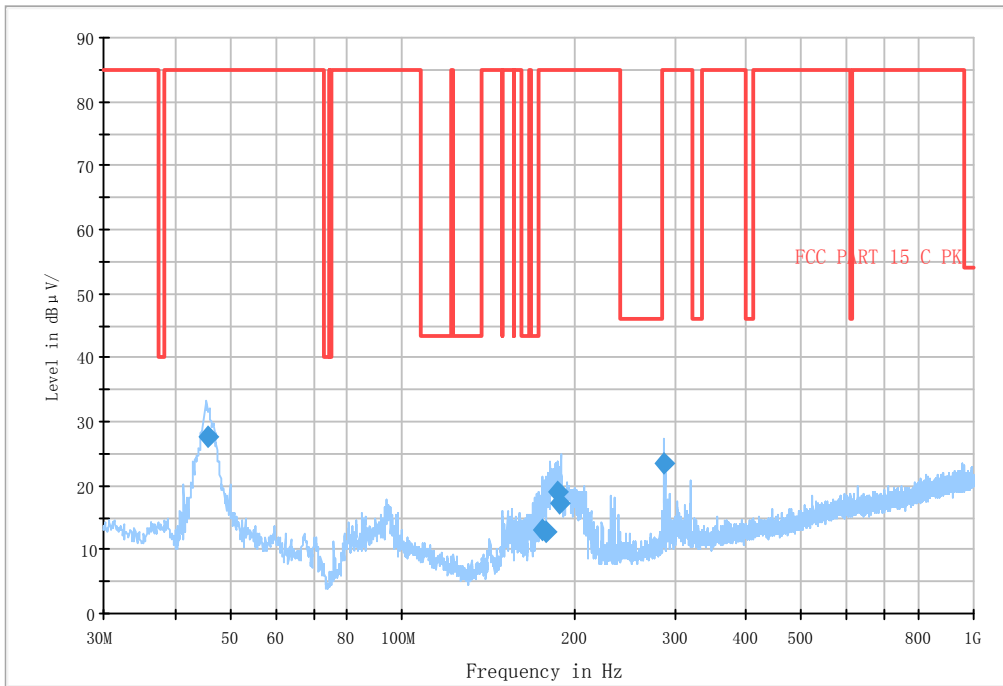
Notes:

1. Radiated emissions were measured with an instrument using Quasi-peak detector mode in frequency range from 30 MHz to 1000MHz, and with peak detector mode in frequency range from 1GHz – 26.5 GHz.

2 Total dBuV/m = Reading dBuV/m – Cable Loss dB + Antenna Gain dB.

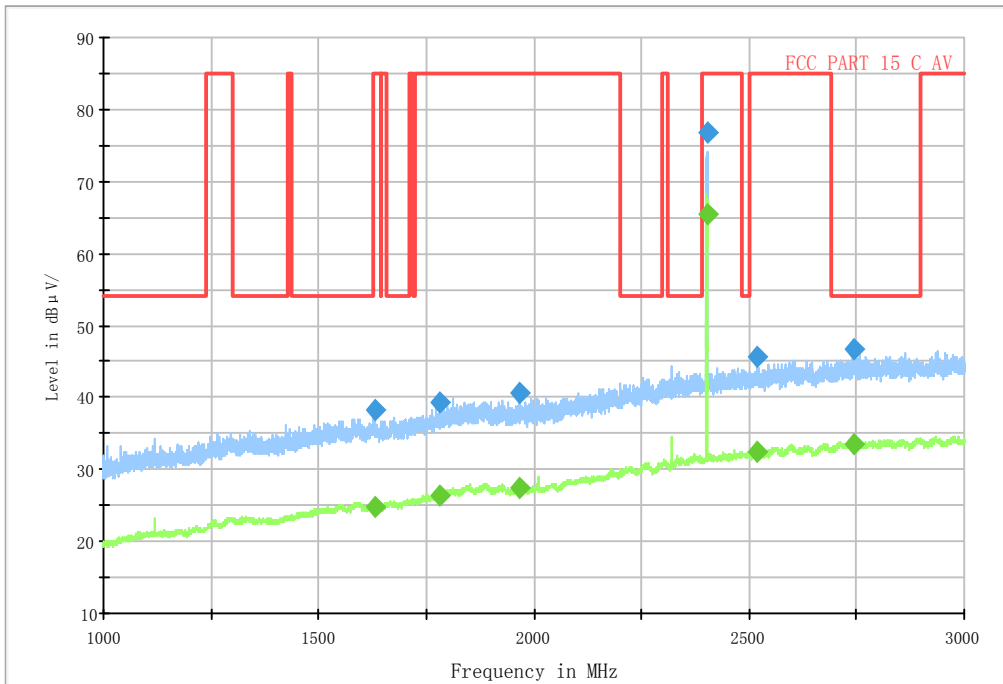
Test Plots:

RE 30MHz-1GHz H



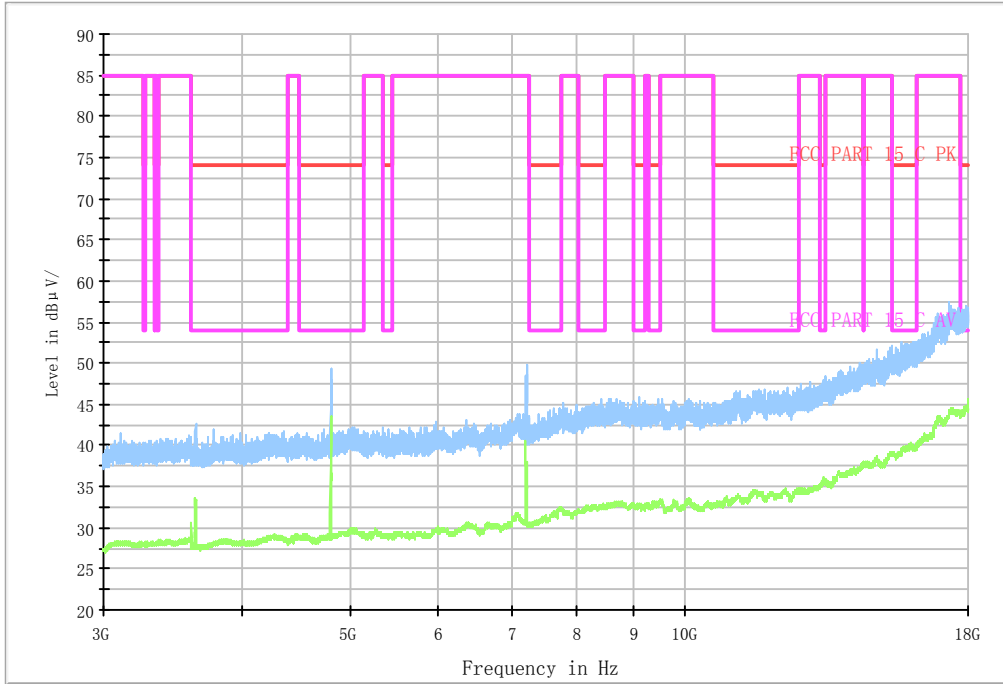
GFSK DH5 Channel 0 30MHz-1GHz

RE 1GHz-3GHz H



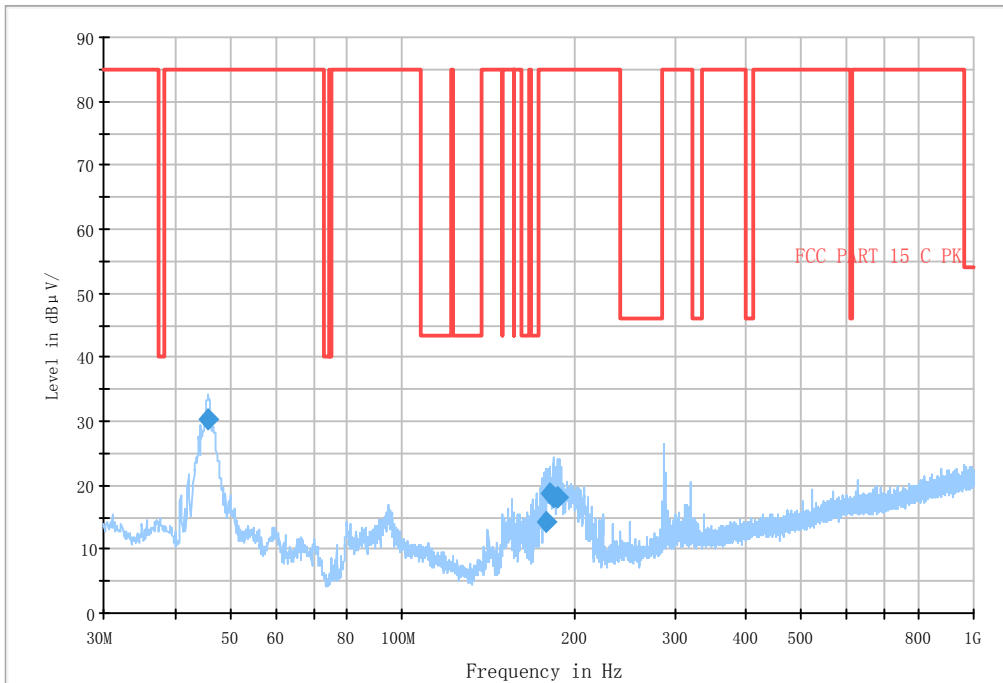
GFSK DH5 Channel 0 1-3GHz

RE 3GHz-18GHz



GFSK DH5 Channel 0 3G-18GHz

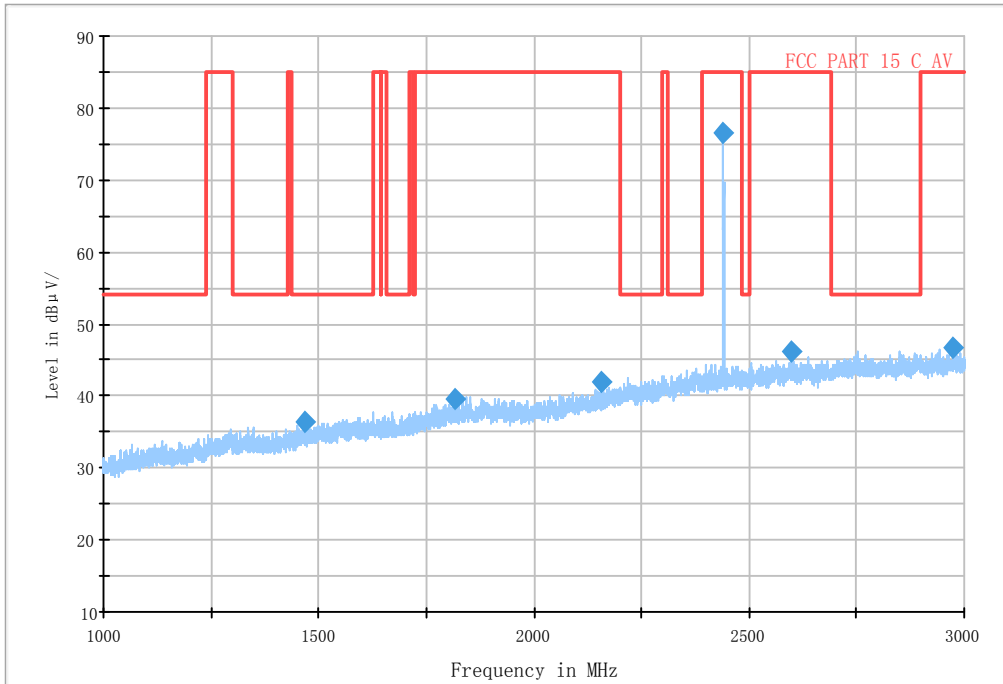
RE 30MHz-1GHz H



GFSK DH5 Channel 39 30MHz-1GHz

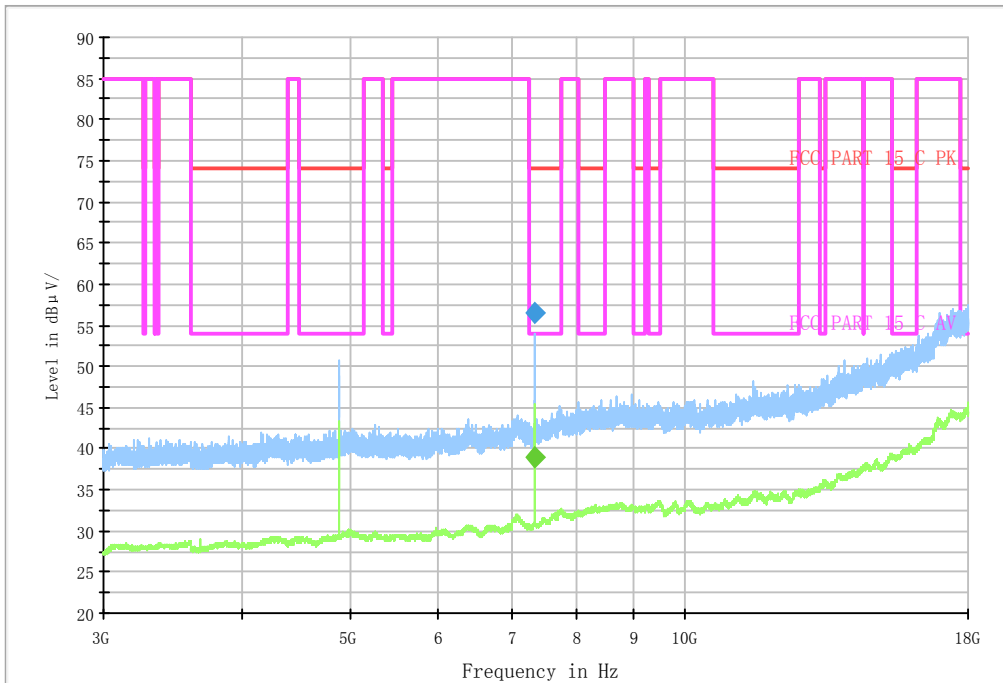


RE 1GHz-3GHz H



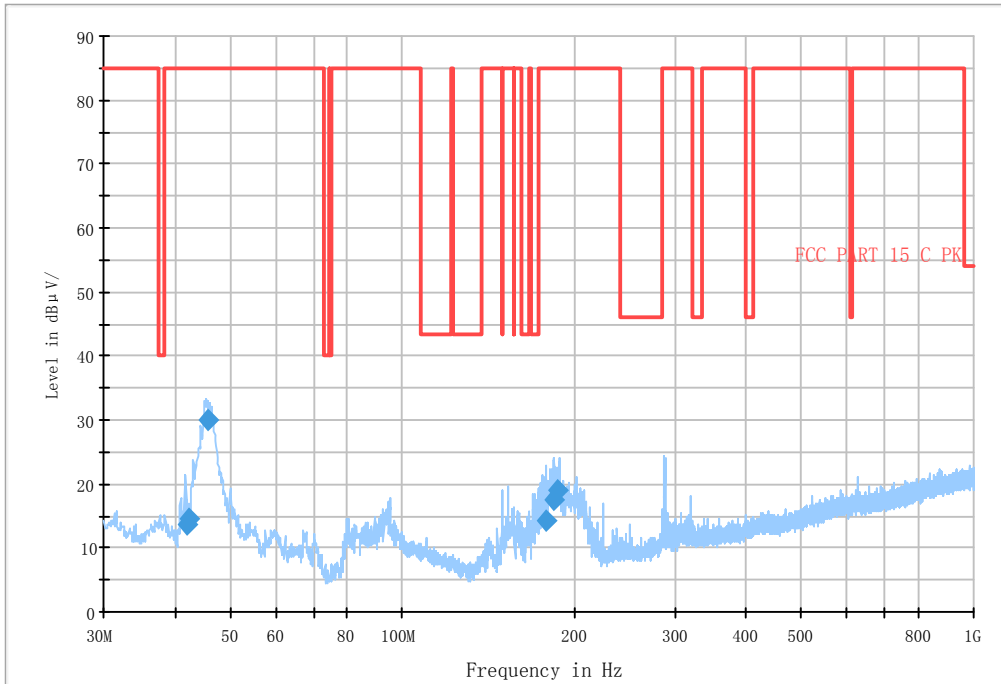
GFSK DH5 Channel 39 1-3GHz

RE 3GHz-18GHz



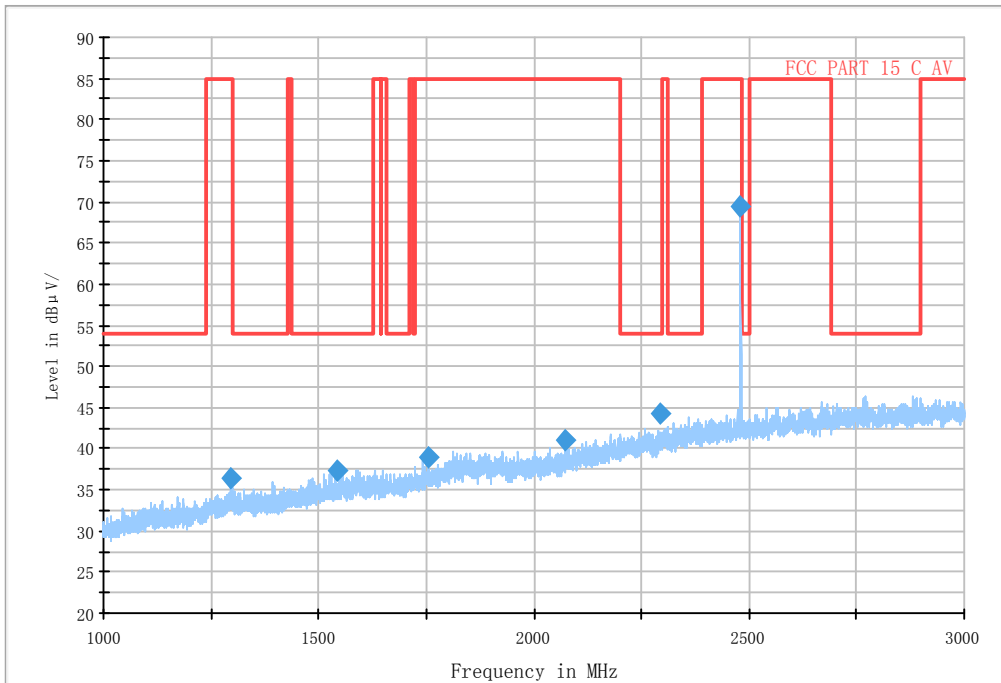
GFSK DH5 Channel 39 3-18GHz

RE 30MHz-1GHz H



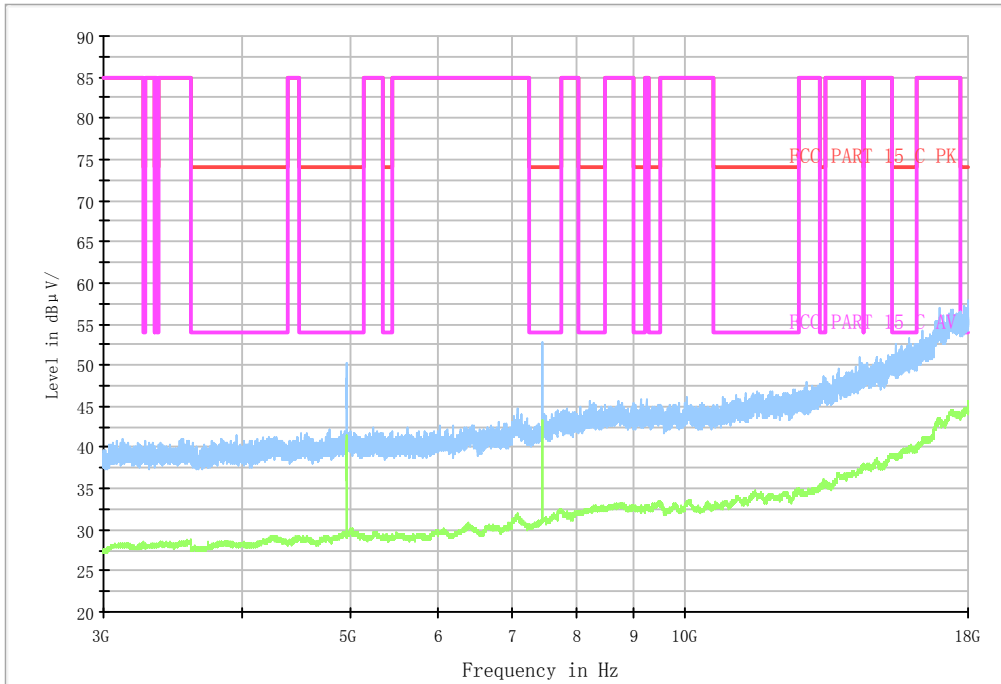
GFSK DH5 Channel 78 30MHz-1GHz

RE 1GHz-3GHz H



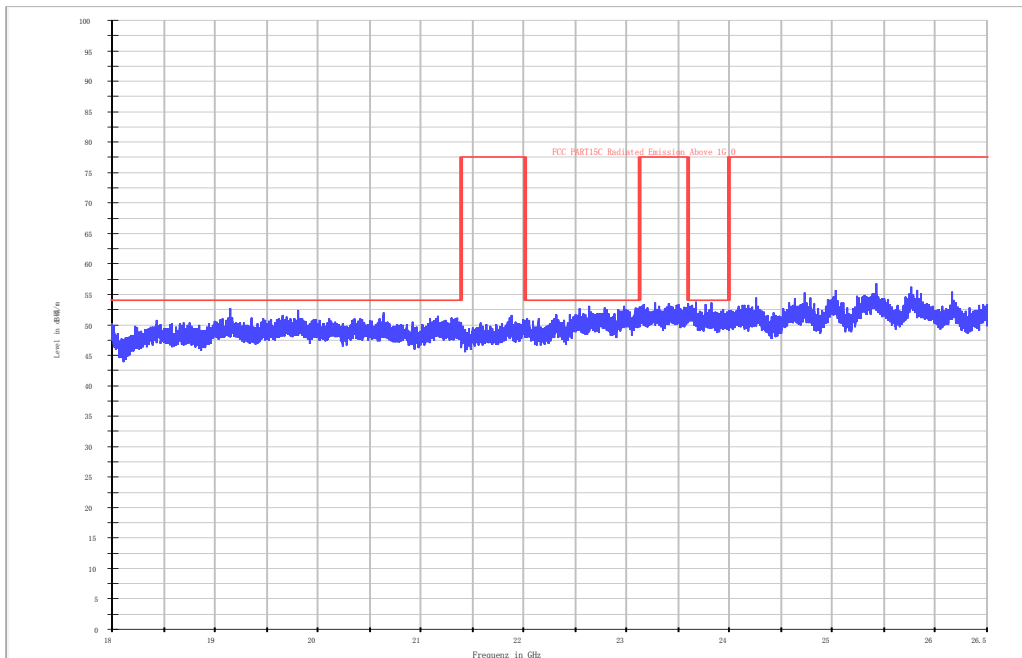
GFSK DH5 Channel 78 1-3GHz

RE 3GHz-18GHz



GFSK DH5 Channel 39 3-18GHz

Copy (2) of FCC Part15C 18-206



GFSK DH5 all channels

**Test photo**

See the Pic1- Pic6 in document "Ilium X400\_Wifi\_BT\_Test Setup Photos\_Rev2".

### 4.8 Power line Conducted Emissions

<b>Specifications:</b>	ANSI C63.4 voltage mains test					
<b>Date of Test</b>	2015-02-13					
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa					
<b>Operation Mode</b>	Hopping					
<b>Test Results:</b>	Pass					
<b>Test equipment Used:</b>						
<b>Number</b>	<b>Description</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>	<b>Cal Due</b>	<b>State</b>
1	EMI Test Receiver	R/S	ESIB26	100211	2016-01-12	Normal
2	Artificial Mains Network	R/S	ESH2-Z5	837480/002	2016-01-08	Normal
3	Shielding Room	ETS	--	19003	2015-11-16	Normal
4	BLUETOOTH TESTER	R/S	CBT	100657	2016-01-28	Normal

#### LIMIT

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

#### Limits of the conducted disturbance at the AC mains ports:

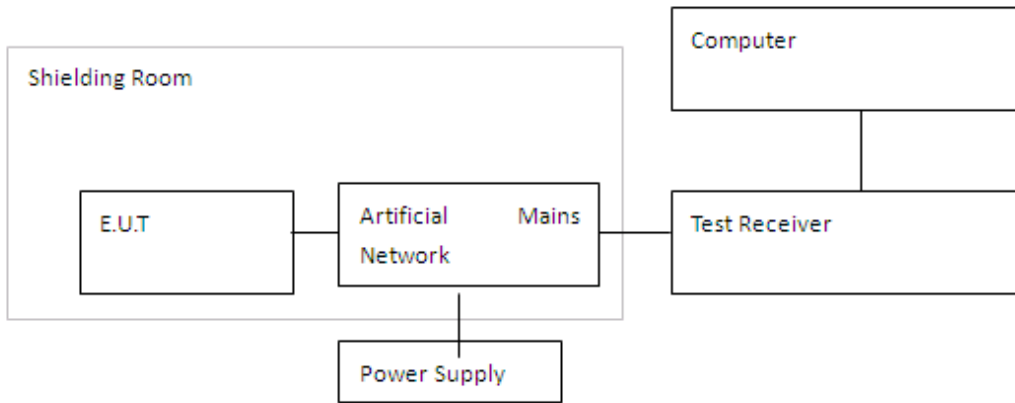
Frequency range	Limit(Quasi-peak)	Limit(Average)
0.15 MHz to 0.5 MHz	66 dBµV – 56 dBµV	56 dBµV – 46 dBµV
>0.5 MHz to 5MHz	56 dBµV	46 dBµV
>5 MHz to 30 MHz	60 dBµV	50 dBµV

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

#### Test Setup

The EUT was placed in a shielding room. The BLUETOOTH TESTER was used to set the TX channel and power level. The ac adapter output is connected to Receiver through an AMN (Artificial Mains Network).



**TEST PROCEDURE**

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

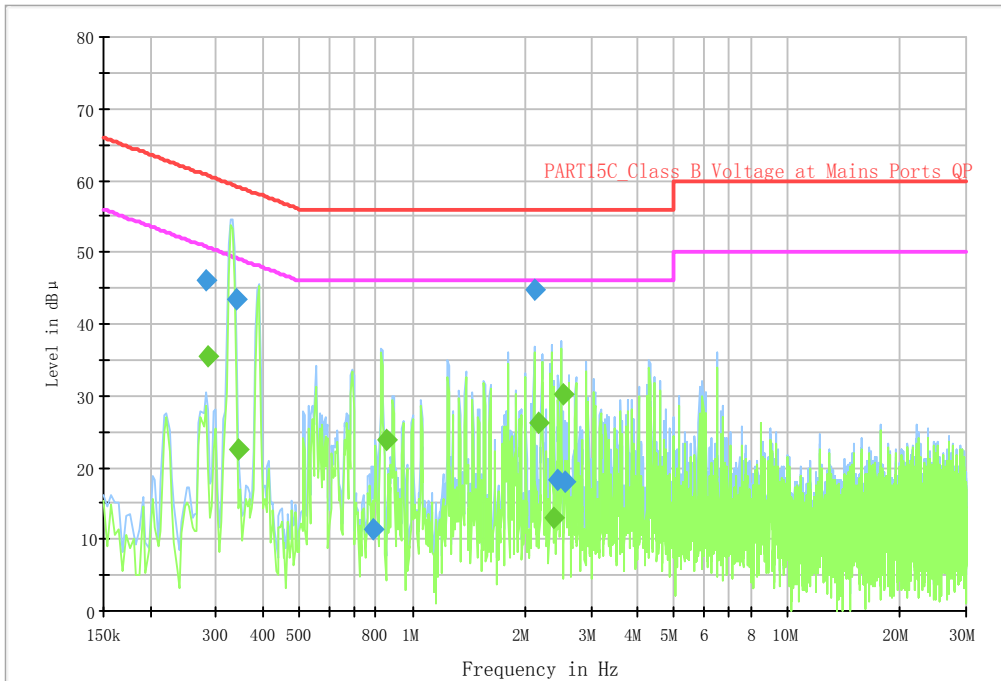
**The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.4-2014.**

Test Result:

Line L&N					
Detector (QP)	Frequency (MHz)	Level (dBµV)	Limit (dBµV)	Line	PE
QP	0.283100	46.0	60.7	N	FLO
QP	0.340800	43.4	59.2	N	FLO
QP	0.787088	11.3	56.0	L	FLO
QP	2.118369	44.7	56.0	L	FLO
QP	2.427169	18.3	56.0	L	FLO
QP	2.558419	18.0	56.0	L	FLO

Line L&N					
Detector (AV)	Frequency (MHz)	Level (dBµV)	Limit (dBµV)	Line	PE
AV	0.342800	35.5	50.7	L	FLO
AV	0.853088	22.6	49.1	N	FLO
AV	2.172369	23.8	46.0	L	FLO
AV	2.393169	26.3	46.0	L	FLO
AV	2.516419	13.0	46.0	L	FLO
AV	0.342800	30.3	46.0	L	FLO

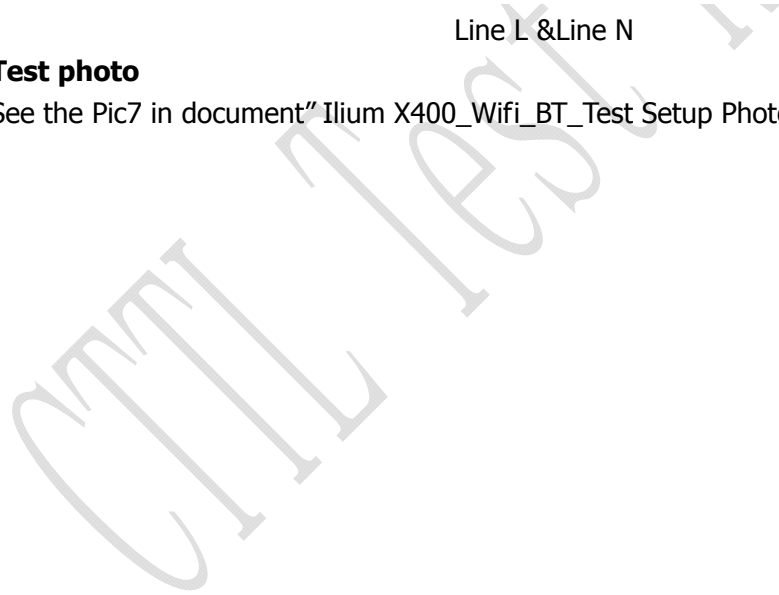
CISPR N&L1 Voltage 150k to 30MHz-Class B



Line L & Line N

**Test photo**

See the Pic7 in document "Ilium X400\_Wifi\_BT\_Test Setup Photos\_Rev2".



## **Annex A External Photos**

See the document "Ilium X400- External Photos".

## **Annex B Internal Photos**

See the document "Ilium X400-Internal Photos".

## **ANNEX C Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

\_\_\_\_\_ The End of this Report \_\_\_\_\_