



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CGZ3130902-00801 & 802-E



CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China



TEST REPORT For FCC ID

47 CFR PART 15 OCT, 2012

Report Reference No. CGZ3130902-00801 & 802-E

Date of issue 05 December 2013

Testing Laboratory Name CETRE OF TESTING SERVICE CO., LTD.

Address A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Testing location/ procedure Full application of Harmonised standards
 Partial application of Harmonised standards
 Other standard testing method

Applicant's name Brilliant Technology Inc.

Address 3579 East Foothill Blvd Suite 183 Pasadena CA 91107

Test specification

Standard 47 CFR PART 15 OCT, 2012

Test Report Form No. CTSEMC-1.0

TRF Originator CENTRE OF TESTING SERVICE CO., LTD.

Master TRF Dated 2009-01

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Test item description : Wifi+BT combo card

Trade Mark Brillianttek

Manufacturer Brilliant Technology Inc.

Model/Type reference WLU6300B(T-RoHS)

Ratings DC 3.3V

Operating Frequency 2402.0 MHz ~2480.0 MHz

Result Positive

Compiled by:

Kate zhang / Fileadministrators

Supervised by:

Duke yang / Technique principal

Approved by:

Vincent yao / Manager

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A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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FCC ID -- T E S T R E P O R T

Test Report No. : CGZ3130902-00801 & 802-E

05 December 2013
 Date of issue

Type / Model..... WLU6300B(T-RoHS)

EUT..... Wifi+BT combo card

Applicant..... Brilliant Technology Inc.

Address..... 3579 East Foothill Blvd Suite 183 Pasadena CA 91107

Telephone..... 408-472-1230

Fax..... 626-551-0407

Contact..... Benny Lee

Manufacturer..... Brilliant Technology Inc.

Address..... 3579 East Foothill Blvd Suite 183 Pasadena CA 91107

Telephone..... 408-472-1230

Fax..... 626-551-0407

Contact..... Benny Lee

Test report holder..... Brilliant Technology Inc.

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Telephone..... 408-472-1230

Fax..... 626-551-0407

Contact..... Benny Lee

Test Result according to the standards on page 1: **PASSED**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

TABLE OF CONTENTS

Description	Page
1.0 TEST STANDARDS	6
2.0 SUMMARY	6
2.1 GENERAL REMARKS	6
2.2 FINAL ASSESSMENT	6
3.0 EQUIPMENT UNDER TEST	6
3.1 POWER SUPPLY SYSTEM UTILISED.....	6
3.2 SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT).....	6
3.3 EUT OPERATION MODE	6
3.4 EUT CONFIGURATION.....	7
4.0 TEST ENVIRONMENT	8
4.1 ADDRESS OF THE TEST LABORATORY.....	8
4.2 TEST FACILITY	8
4.3 ENVIRONMENTAL CONDITIONS	8
4.4 DEFINITIONS OF SYMBOLS USED IN THIS TEST REPORT	8
4.5 STATEMENT OF THE MEASUREMENT UNCERTAINTY	8
4.6 MEASUREMENT UNCERTAINTY	9
5.0 SUMMARY OF STANDARDS AND RESULTS	9
5.1.DESCRIPTION OF STANDARDS AND RESULTS	9
6.0 POWER LINE CONDUCTED EMISSION TEST	10
6.1.TEST EQUIPMENT.....	10
6.2. BLOCK DIAGRAM OF TEST SETUP.....	10
6.3. POWER LINE CONDUCTED EMISSION TEST LIMITS	10
6.4.TEST PROCEDURE	10
6.5. POWER LINE CONDUCTED EMISSION TEST RESULTS	10
7.0 20DB BANDWIDTH	13
7.1 MEASUREMENT EQUIPMENT USED.....	13
7.2 TEST CONFIGURATION	13
7.3 TEST PROCEDURE	13
7.4 TEST RESULTS	13
8.0 PEAK POWER.....	20
8.1 LIMIT.....	20
8.2 MEASUREMENT EQUIPMENT USED.....	20
8.3 TEST CONFIGURATION	20
8.4 TEST PROCEDURE.....	21

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Tel: +86-20-85543113 (32 lines)

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Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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8.5 TEST RESULTS	22
9.0 PEAK POWER SPECTRAL DENSITY	28
9.1 LIMIT	28
9.2 MEASUREMENT EQUIPMENT USED	28
9.2 TEST CONFIGURATION	28
9.3 TEST PROCEDURE	28
9.4 TEST RESULTS	28
10.0 BAND EDGES MEASUREMENT	29
10.1 LIMIT	29
10.2 MEASUREMENT EQUIPMENT USED	29
10.3 TEST CONFIGURATION	29
10.4 TEST PROCEDURE	30
10.5 TEST RESULTS	30
11.0 FREQUENCY SEPARATION	55
11.1 LIMIT	55
11.2 MEASUREMENT EQUIPMENT USED	55
11.3 TEST CONFIGURATION	55
11.4 TEST PROCEDURE	55
11.5 TEST RESULTS	55
12.0 NUMBER OF HOPPING FREQUENCY	59
12.1 LIMIT	59
12.2 MEASUREMENT EQUIPMENT USED	59
12.3 TEST CONFIGURATION	59
12.4 TEST PROCEDURE	59
12.5 TEST RESULTS	59
12.6 TEST DATA	59
13.0 TIME OF OCCUPANCY (DWELL TIME)	63
13.1 LIMIT	63
13.2 MEASUREMENT EQUIPMENT USED	63
13.3 TEST CONFIGURATION	63
13.4 TEST PROCEDURE	63
13.5 TEST RESULTS	63
13.6 TEST DATA	63
14.0 SPURIOUS EMISSIONS	72
14.1 LIMIT	72
14.2 TEST EQUIPMENT	72
14.3 TEST CONFIGURATION	73
14.4 TEST PROCEDURE	74
14.5 TEST RESULTS	74
15.0 ANTENNA REQUIREMENTS	100
15.1 STANDARD APPLICABLE	100

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15.2 ANTENNA CONSTRUCTION AND DIRECTIONAL GAIN	100
16.DEVIATION TO TEST SPECIFICATIONS	100

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1.0 TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2012
- ANSI C63.4-2009

2.0 SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	02 September 2013
Testing commenced on	02 September ~05 December 2013
Testing concluded on	05 December 2013

2.2 FINAL ASSESSMENT

The FCC requirements pertaining to the technical standards and tested operation modes are

- - fulfilled.
- **not** fulfilled.

The equipment under test

- - fulfills the FCC requirements cited on page 1.
- **does not** fulfil the FCC requirements cited on page 1.

3.0 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : ■ DC 3.3V

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: 1

Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

- Standby
- TX- Y position
- TX- Zposition
- TX- X position

Operation mode 1:TX-X Position Low (2402.0 MHz) , TX-X Position Middle (2442.0 MHz) ,
TX-X Position High (2480.0 MHz)

Note:Operation mode 1 TX -X position of EUT is the radiated test worst case. so only these test results be recorded in the test report.

3.4 EUT configuration

3.4.1. Description of configuration (EUT)

Description	:	Wifi+BT combo card
Model Number	:	WLU6300B(T-RoHS)
Operation frequency	:	2402.0 MHz~ 2480.0 MHz ISM Band
Buletooth Version	:	3.0(Include 2.0, 2.1)
Modulation Technology	:	GFSK for (1Mbps), $\pi/4$ -DQPSK for (2Mbps), 8DPSK for (3Mbps) modulation
Antenna 1	:	PCB antenna, met requirement of FCC 15.203
Antenna 2	:	Chip antenna, met requirement of FCC 15.203

3.4.2. Tested Supporting System Details

3.4.2.1. Notebook

M/N	:	F83VF
S/N	:	AEN0AS64740305D
Manufacturer	:	ASUS
Power Cord	:	Unshielded, Detachable, 1.5m , 3Pin
FCC ID	:	By DoC

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4.0 TEST ENVIRONMENT

4.1 Address of the test laboratory

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

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

CNAS-Lab Code: L3394

CENTRE OF TESTING SERVICE CO., LTD has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CENTRE OF TESTING SERVICE CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on June 6, 2011.

FCC-Registration No.: 971995

CENTRE OF TESTING SERVICE 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 FCC is maintained in our files. Registration No.791995, July 13,2012.

4.3 Environmental conditions

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

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- - The black square indicates that the listed condition, standard or equipment is applicable for this report.
- - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 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 CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS 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.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	300MHz~1000MHz	±3.18dB	(1)
	1GHz~26.5GHz	±3.54dB	(1)

(1).This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5.0 Summary of standards and results

5.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15 : 15.207 ANSI C63.4-2009	PASSED
20dB Bandwidth	FCC Part 15.247(a)(1) ANSI C63.4-2009	PASSED
Peak Power	FCC Part 15.247(b)(1) ANSI C63.4-2009	PASSED
Peak Power Spectral Density	15.247(e) Power Density ANSI C63.4-2009	N/A
Band edges measurement	FCC Part 15.247(d) ANSI C63.4-2009	PASSED
Frequency Separation	FCC Part 15.247(a)(1) ANSI C63.4-2009	PASSED
Number of Hopping Frequency	FCC Part 15.247(a)(1)(iii) ANSI C63.4-2009	PASSED
Dwell Time	FCC Part 15.247(a)(1)(iii) ANSI C63.4-2009	PASSED
Spurious Emissions	FCC Part 15: 15.209 ANSI C63.4-2009	PASSED
Antenna Requirements	FCC Part 15: 15.203 ANSI C63.4-2009	PASSED
N/A is an abbreviation for Not Applicable.		

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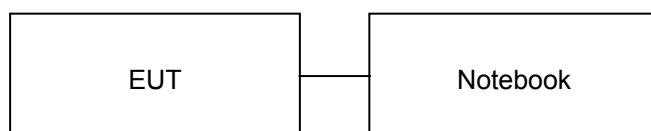
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6.0 Power Line Conducted Emission Test

6.1. Test Equipment

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2012/11
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2012/11
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2012/11
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2012/11
5	EMI Test Software	EZ-EMC	Farad	N/A	N/A

6.2. Block Diagram of Test Setup



(EUT: Wifi+BT combo card)

6.3. Power Line Conducted Emission Test Limits

Standard: FCC Part 15 : 15.207,ANSI C63.4-2009

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(µV)	Average Level dB(µV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.4. Test Procedure

The XBOX Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

6.5. Power Line Conducted Emission Test Results

PASSED.

The frequency range from 150KHz~30MHz is investigated. Please see the following pages.

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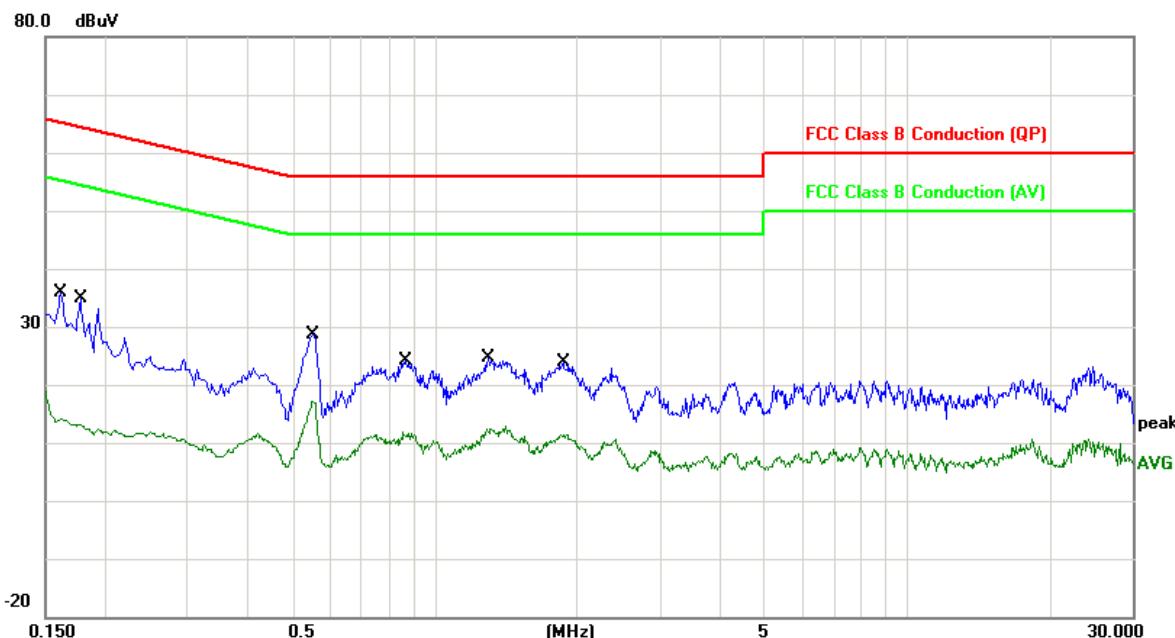
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Test point:	L	Result:	<input checked="" type="checkbox"/> - passed
Frequency range:	0.15MHz~30MHz		<input type="checkbox"/> - not passed

EUT	Wifi+BT combo card
Operating Condition	TX
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test Date:	02~23 September 2013
Operator	Duke
MODEL NO	WLU6300B(T-RoHS)



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1620	9.78	14.80	24.58	65.36	-40.78	QP
2	0.1620	9.78	3.81	13.59	55.36	-41.77	AVG
3	0.1780	9.78	12.64	22.42	64.58	-42.16	QP
4	0.1780	9.78	2.96	12.74	54.58	-41.84	AVG
5	0.5540	9.84	15.60	25.44	56.00	-30.56	QP
6	0.5540	9.84	7.03	16.87	46.00	-29.13	AVG
7	0.8700	9.83	8.78	18.61	56.00	-37.39	QP
8	0.8700	9.83	1.73	11.56	46.00	-34.44	AVG
9	1.2980	9.84	8.58	18.42	56.00	-37.58	QP
10	1.2980	9.84	1.54	11.38	46.00	-34.62	AVG
11	1.8740	9.86	8.50	18.36	56.00	-37.64	QP
12	1.8740	9.86	1.39	11.25	46.00	-34.75	AVG

Remark: Other frequency mini margin all >6 dB of Limit

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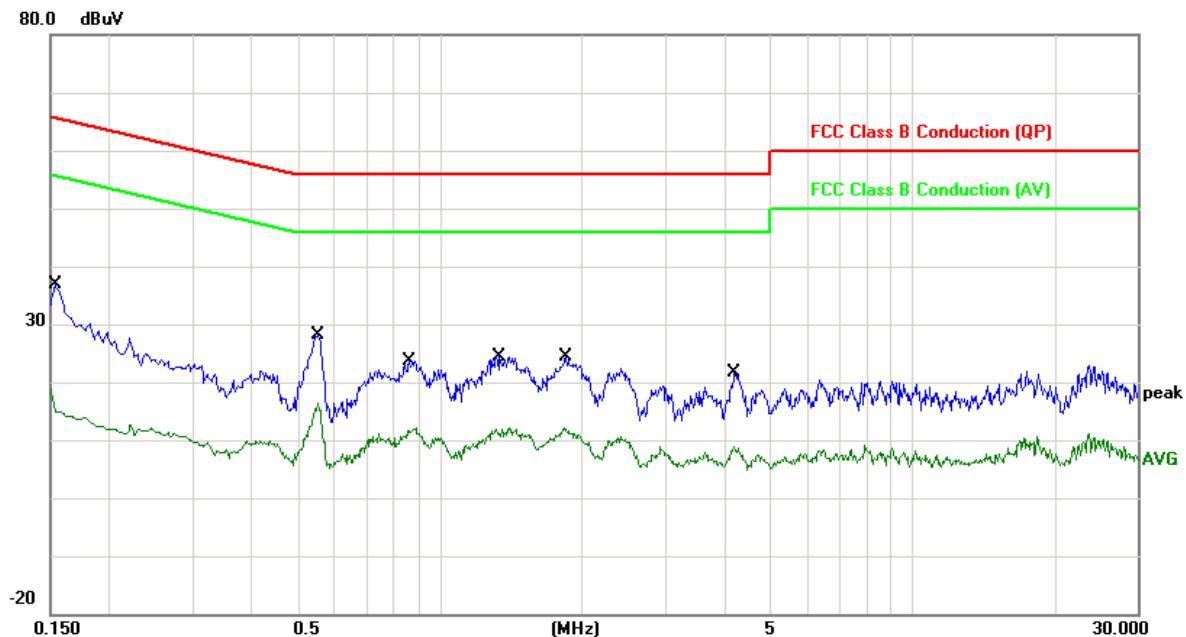
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Test point:	N	Result:	■ - passed
Frequency range:	0.15MHz~30MHz		□ - not passed



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1540	9.78	19.25	29.03	65.78	-36.75	QP
2	0.1540	9.78	5.07	14.85	55.78	-40.93	AVG
3	0.5540	9.84	15.25	25.09	56.00	-30.91	QP
4	0.5540	9.84	6.78	16.62	46.00	-29.38	AVG
5	0.8620	9.83	8.08	17.91	56.00	-38.09	QP
6	0.8620	9.83	1.17	11.00	46.00	-35.00	AVG
7	1.3420	9.84	8.16	18.00	56.00	-38.00	QP
8	1.3420	9.84	1.26	11.10	46.00	-34.90	AVG
9	1.8540	9.86	8.50	18.36	56.00	-37.64	QP
10	1.8540	9.86	1.41	11.27	46.00	-34.73	AVG
11	4.2220	9.91	5.19	15.10	56.00	-40.90	QP
12	4.2220	9.91	-2.13	7.78	46.00	-38.22	AVG

Remark: Other frequency mini margin all >6 dB of Limit

Note:Level=Reading+Factor. Margin= Level-Limit

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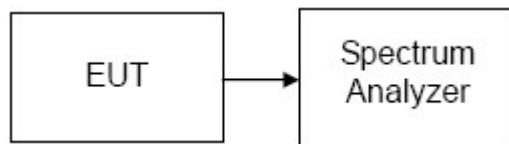
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7.0 20dB BANDWIDTH

7.1 MEASUREMENT EQUIPMENT USED

20dB Bandwidth					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03

7.2 TEST CONFIGURATION



7.3 TEST PROCEDURE

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT, then connect a low loss RF cable from antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100kHz, VBW=300kHz, Span=3MHz, Sweep = auto.
4. Mark the peak frequency and 20dB (upper and lower) frequency.
5. Repeat until all the test channels are investigated.

7.4 TEST RESULTS

Passed

Test Plot

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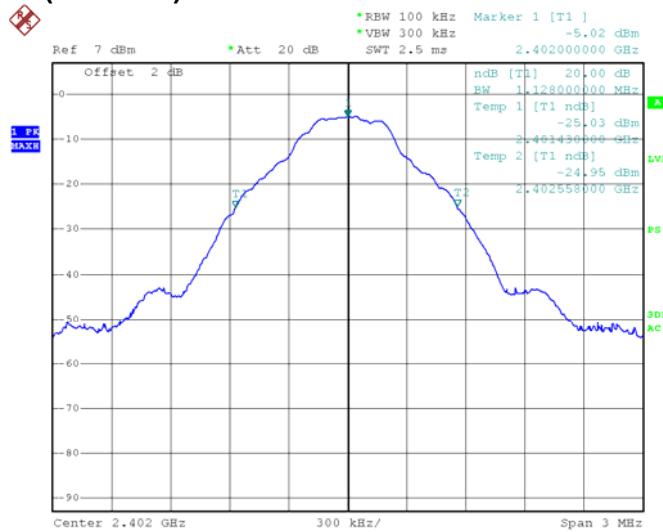
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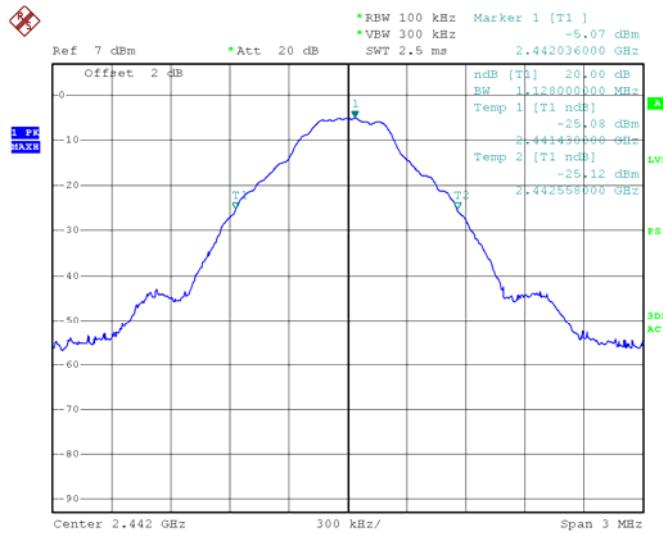
GFSK

20dB Bandwidth(CH Low)



Date: 3.DEC.2013 16:25:02

20dB Bandwidth(CH Middle)



Date: 3.DEC.2013 16:49:36

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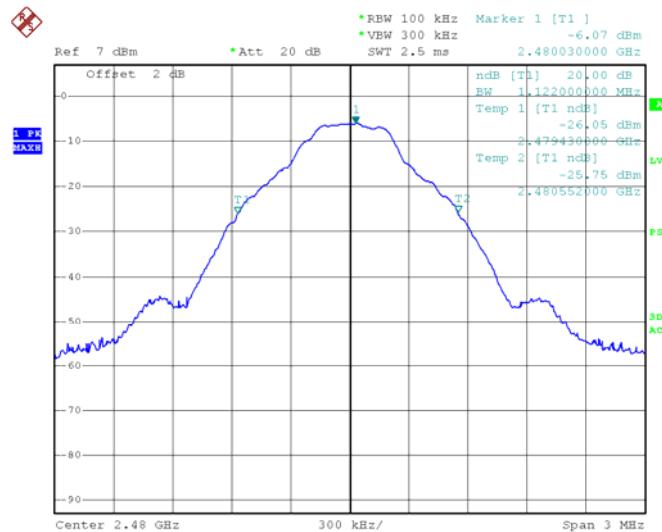
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20dB Bandwidth(CH High)



Date: 3.DEC.2013 16:50:40

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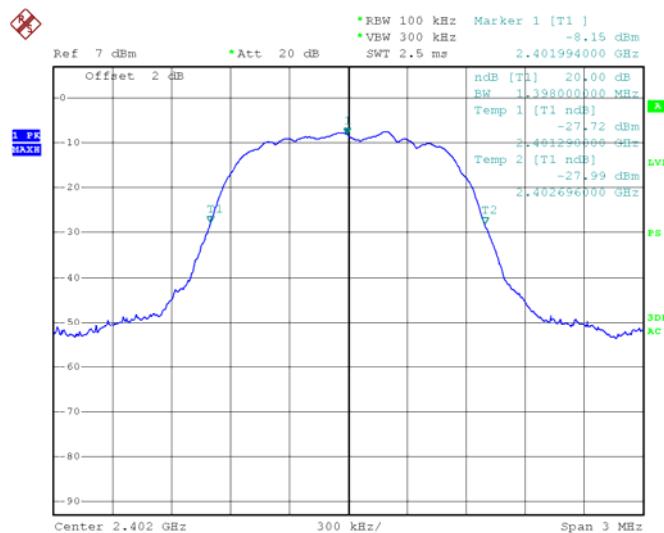
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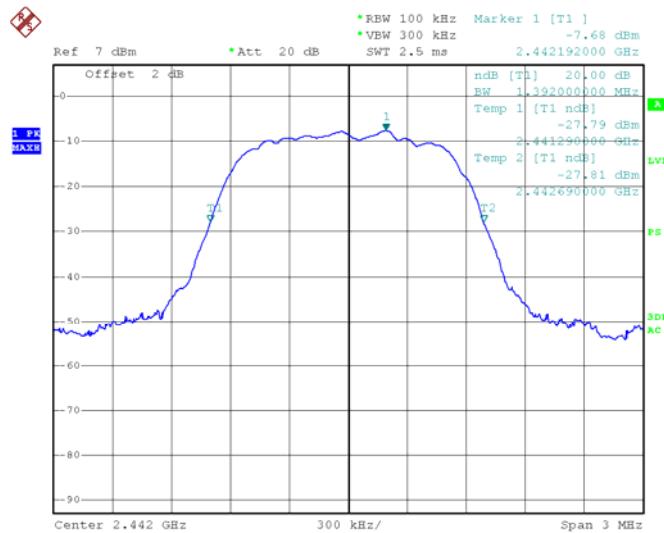
π/4-DQPSK

20dB Bandwidth(CH Low)



Date: 3.DEC.2013 16:44:48

20dB Bandwidth(CH Middle)



Date: 3.DEC.2013 16:48:33

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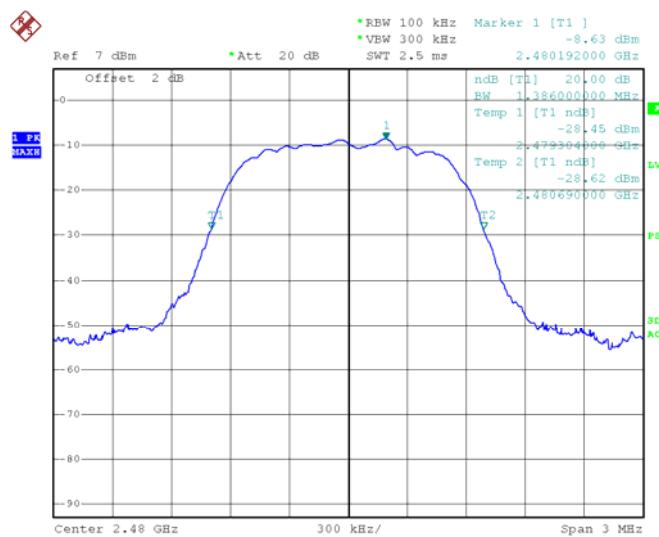
Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

20dB Bandwidth(CH High)



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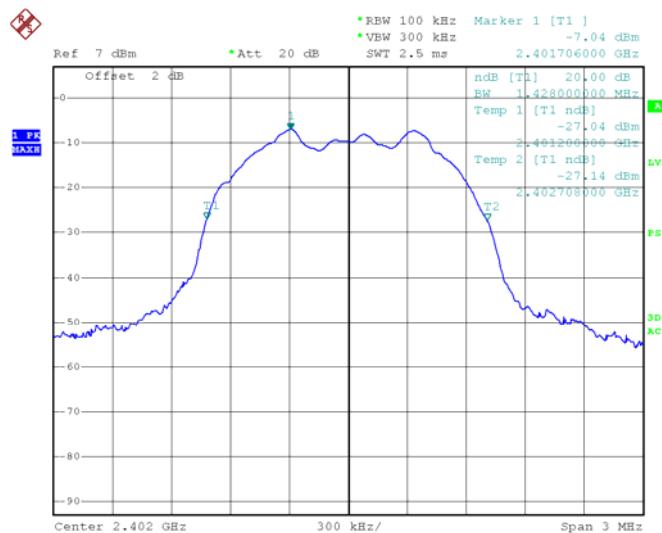
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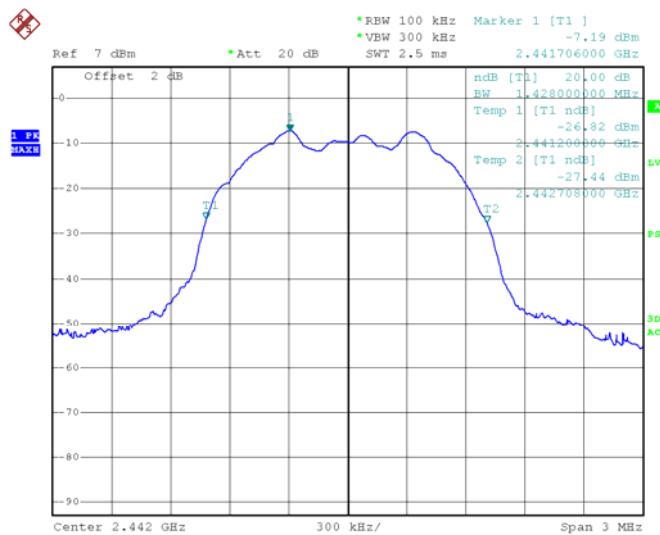
8DPSK

20dB Bandwidth(CH Low)



Date: 3.DEC.2013 16:45:57

20dB Bandwidth(CH Middle)



Date: 3.DEC.2013 16:47:29

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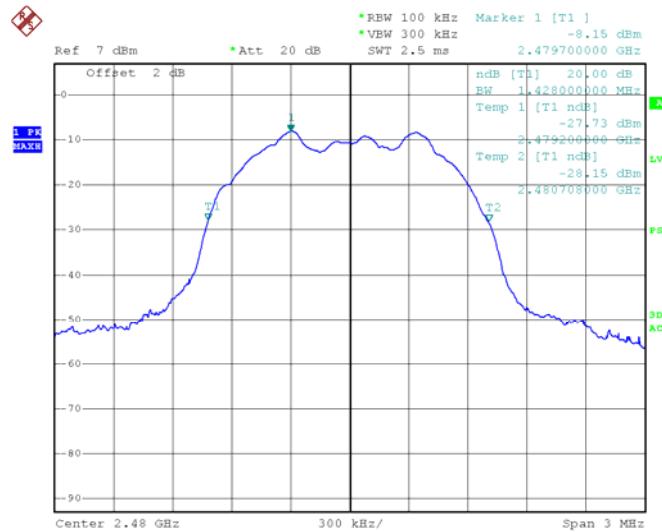
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20dB Bandwidth(CH High)



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8.0 PEAK POWER

8.1 LIMIT

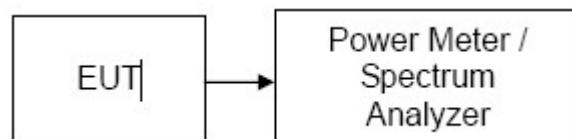
The maximum peak output power of the intentional radiator shall not exceed the following:

1. For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6dBi 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 6dBi.
3. The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 MEASUREMENT EQUIPMENT USED

Peak Power					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03
2	Power meter	ROHDE & SCHWARZ	NRVS	842856/049	2013/03

8.3 TEST CONFIGURATION



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8.4 TEST PROCEDURE

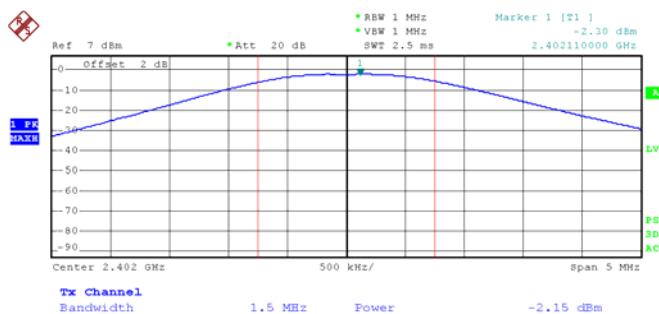
1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW = 1 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to "free run".
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

8.5 TEST RESULTS

Passed
Test Data
GFSK

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low	2402	-2.15	30	PASS
Middle	2442	-2.27	30	PASS
High	2480	-3.19	30	PASS

CH Low



Date: 4.DEC.2013 16:13:19

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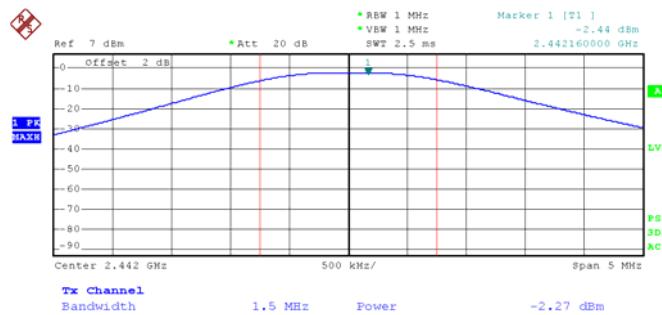
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E-mail: cts@cts-lab.com.cn

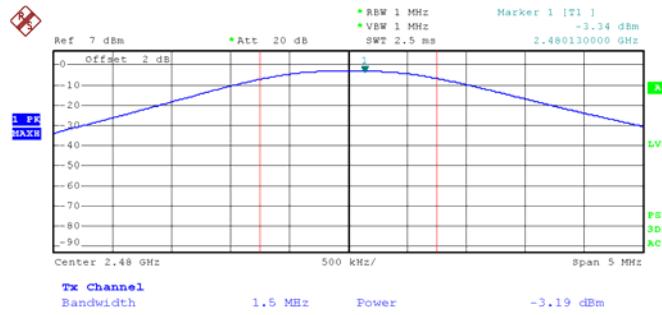
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CH Middle



Date: 4.DEC.2013 16:12:40

CH High



Date: 4.DEC.2013 16:11:51

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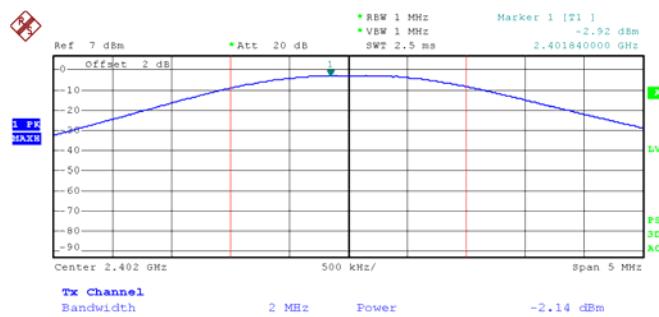
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π/4-DQPSK

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low	2402	-2.14	30	PASS
Middle	2442	-2.20	30	PASS
High	2480	-3.13	30	PASS

CH Low

Date: 4.DEC.2013 16:07:13

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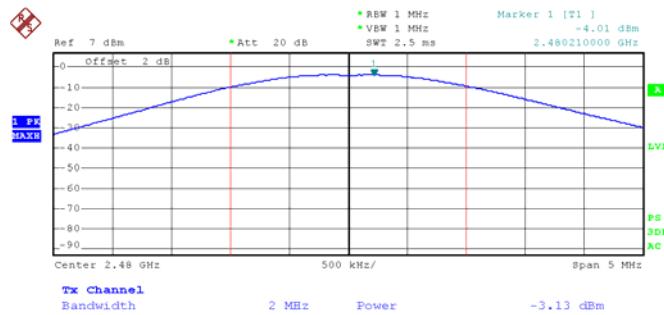
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CH Middle



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CH High



Date: 3.DEC.2013 17:08:24

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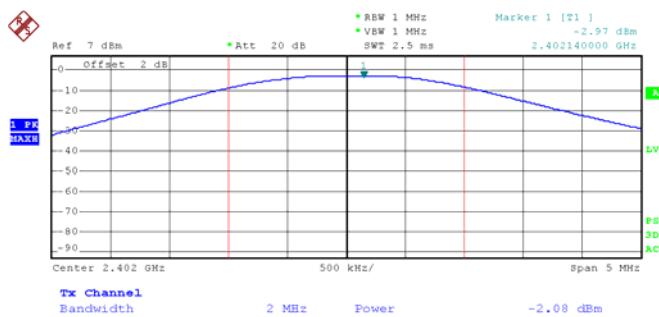
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8DPSK

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low	2402	-2.08	30	PASS
Middle	2442	-2.20	30	PASS
High	2480	-3.09	30	PASS

CH Low

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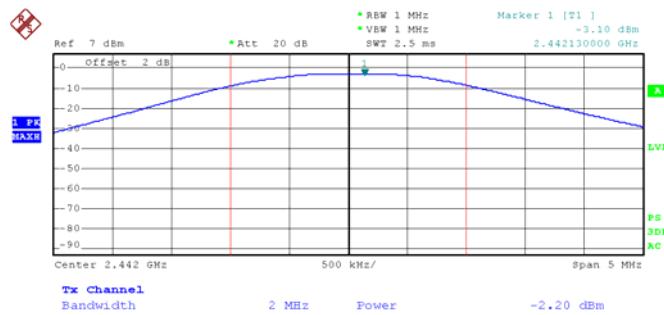
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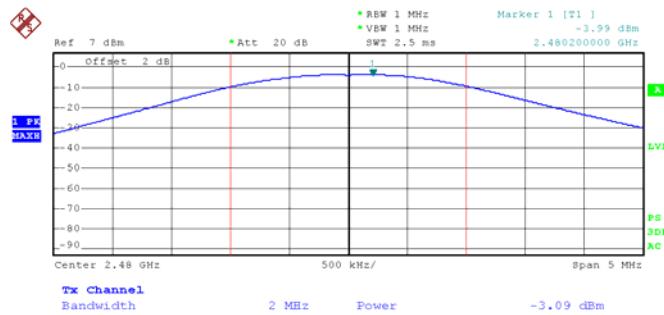
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CH Middle



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CH High



Date: 3.DEC.2013 17:06:35

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9.0 PEAK POWER SPECTRAL DENSITY

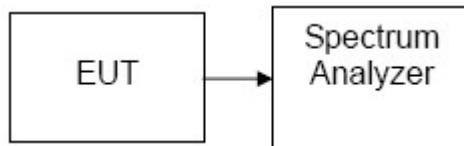
9.1 LIMIT

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section

9.2 MEASUREMENT EQUIPMENT USED

Peak Power Spectral Density					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03

9.2 TEST CONFIGURATION



9.3 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
4. Record the max. reading.
5. Repeat the above procedure until the measurements for all frequencies are completed.

9.4 TEST RESULTS

Not applicable for Bluetooth 3.0 device.

10.0 BAND EDGES MEASUREMENT

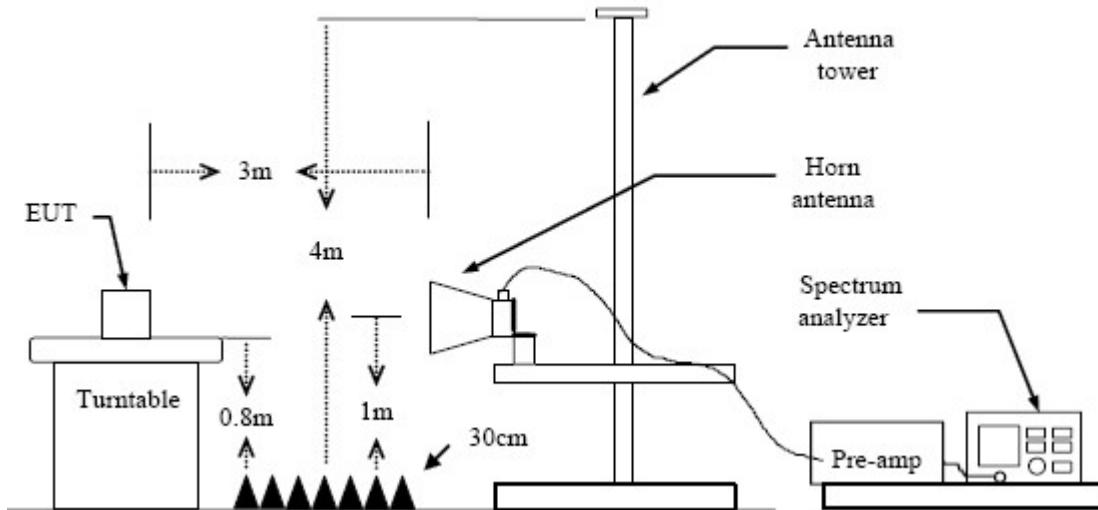
10.1 LIMIT

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

10.2 MEASUREMENT EQUIPMENT USED

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2012/11
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2013/03
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2013/03
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2013/03
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11
7	EMI Test Software	EZ-EMC	Farad	N/A	N/A

10.3 Test Configuration



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10.4 TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

10.5 TEST RESULTS

Refer to attach spectrum analyzer data chart.

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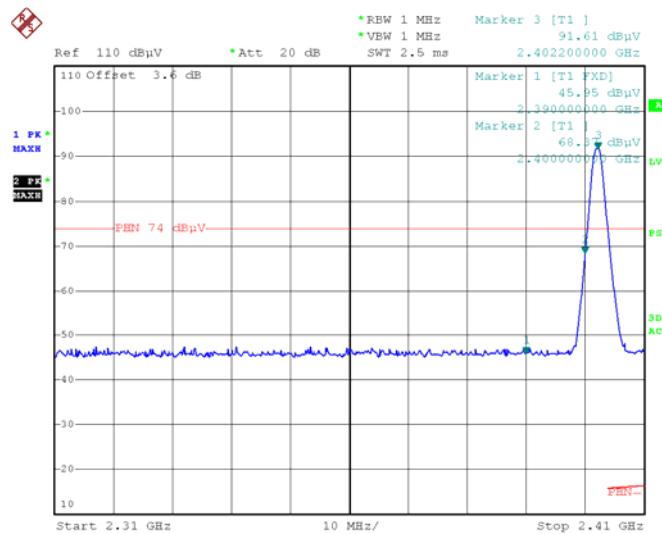
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Chip antenna**QPSK****Band Edges (CH-Low)**

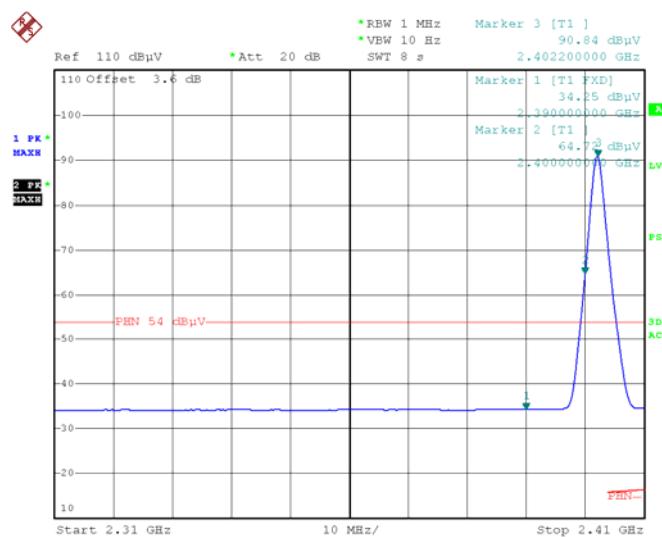
Detector mode: Peak

Polarity: Horizontal

Date: 5.DEC.2013 14:51:21

Band Edges (CH-Low)

Detector mode: Average

Polarity: Horizontal

Date: 5.DEC.2013 14:50:34

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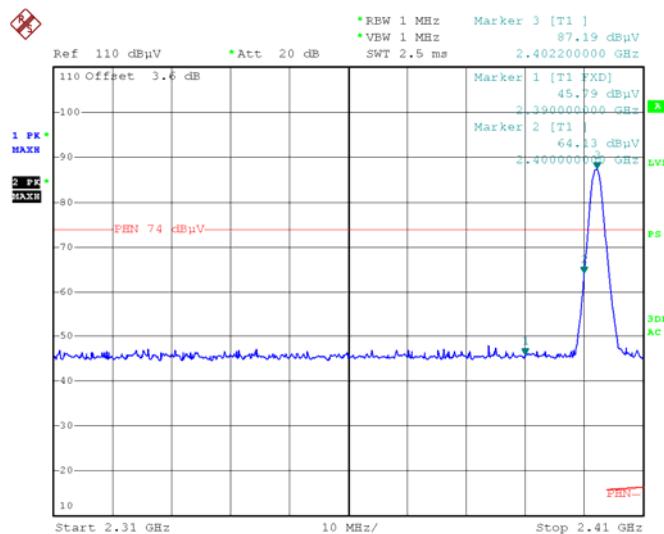
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Band Edges (CH-Low)

Detector mode: Peak

Polarity: Vertical

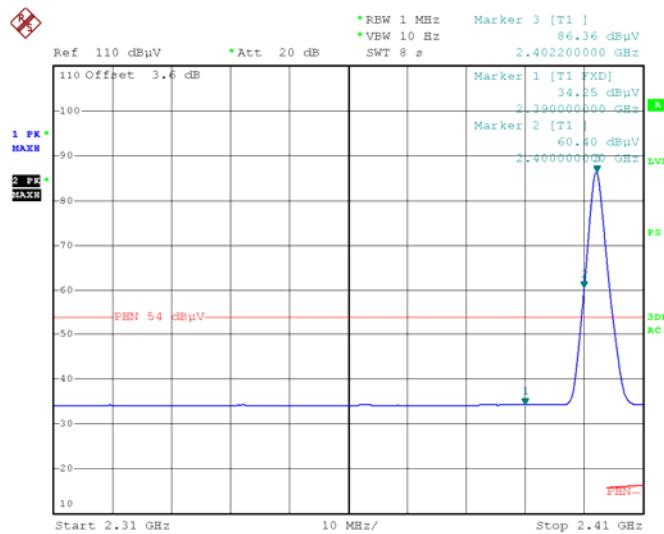


Date: 5.DEC.2013 15:13:47

Band Edges (CH-Low)

Detector mode: Average

Polarity: Vertical



Date: 5.DEC.2013 15:14:54

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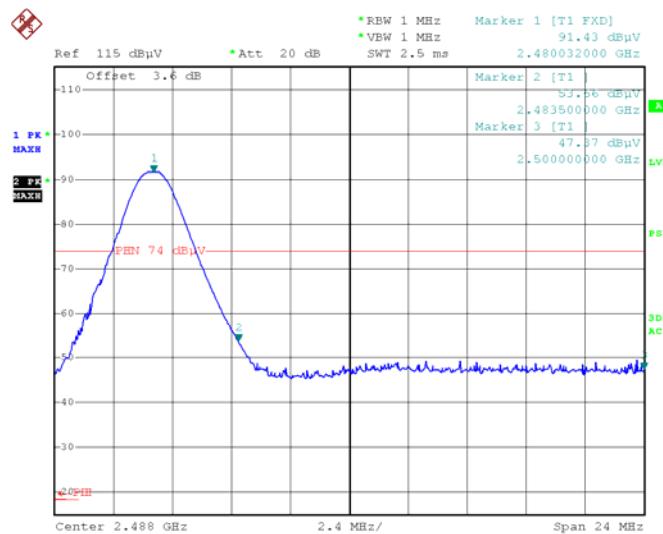
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Band Edges (CH-High)

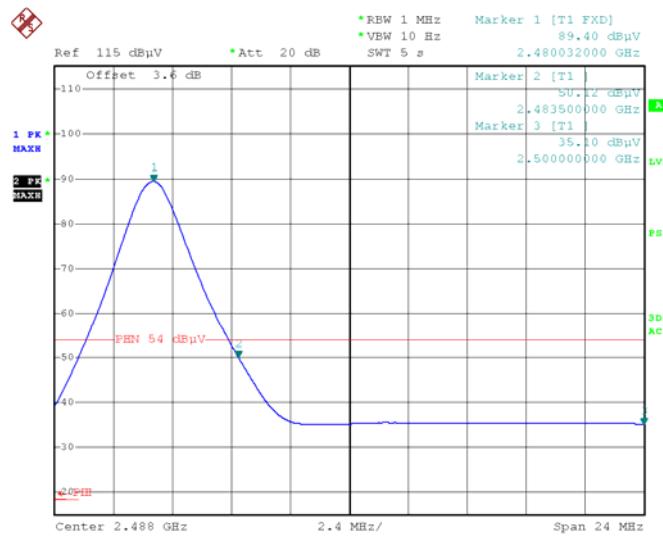
Detector mode: Peak

Polarity: Horizontal

Date: 2.DEC.2013 16:46:59

Band Edges (CH-High)

Detector mode: Average

Polarity: Horizontal

Date: 2.DEC.2013 16:46:13

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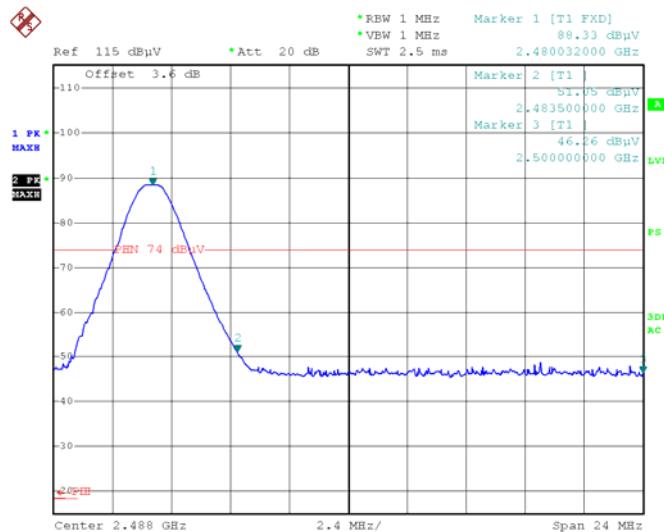
E-mail: cts@cts-lab.com.cn

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Band Edges (CH-High)

Detector mode: Peak

Polarity: Vertical

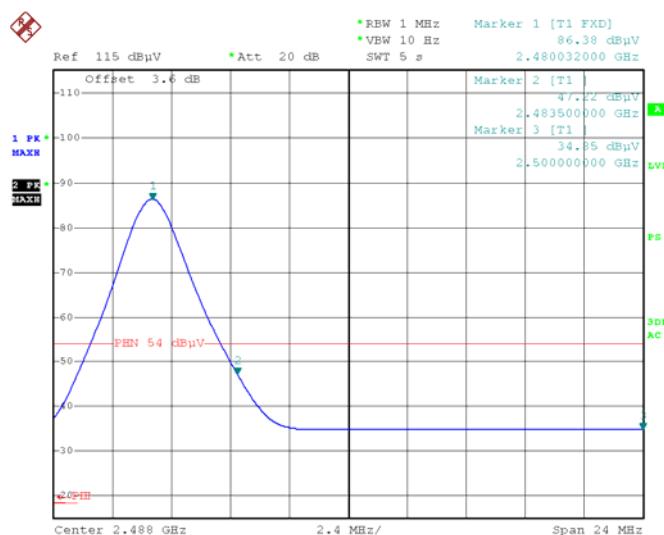


Date: 2.DEC.2013 16:35:08

Band Edges (CH-High)

Detector mode: Average

Polarity: Vertical



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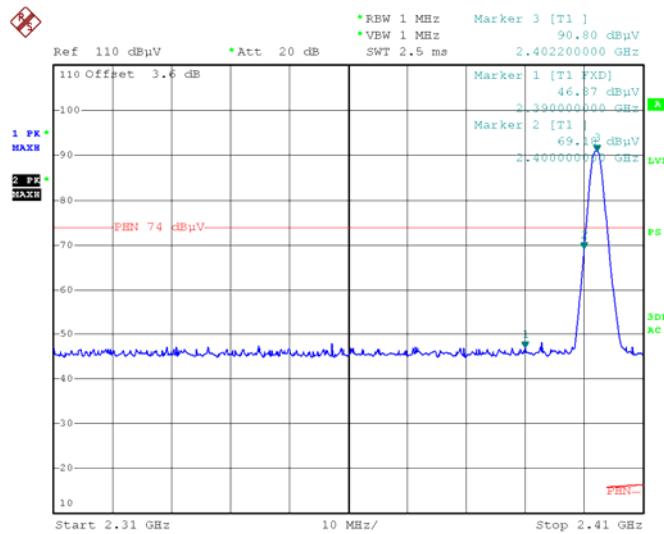
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π/4-DQPSK**Band Edges (CH-Low)**

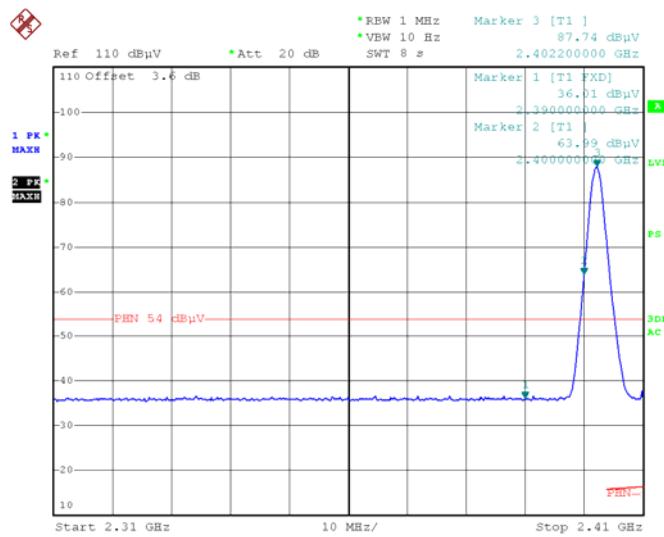
Detector mode: Peak

Polarity: Horizontal

Date: 5.DEC.2013 15:02:06

Band Edges (CH-Low)

Detector mode: Average

Polarity: Horizontal

Date: 5.DEC.2013 14:57:00

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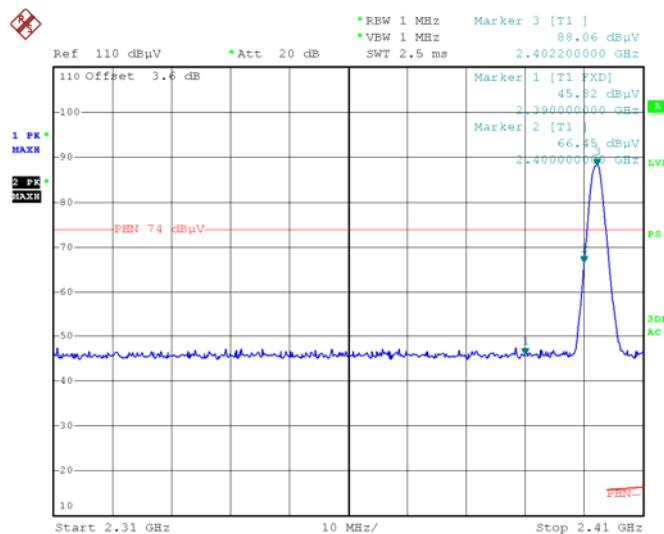
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Band Edges (CH-Low)

Detector mode: Peak

Polarity: Vertical

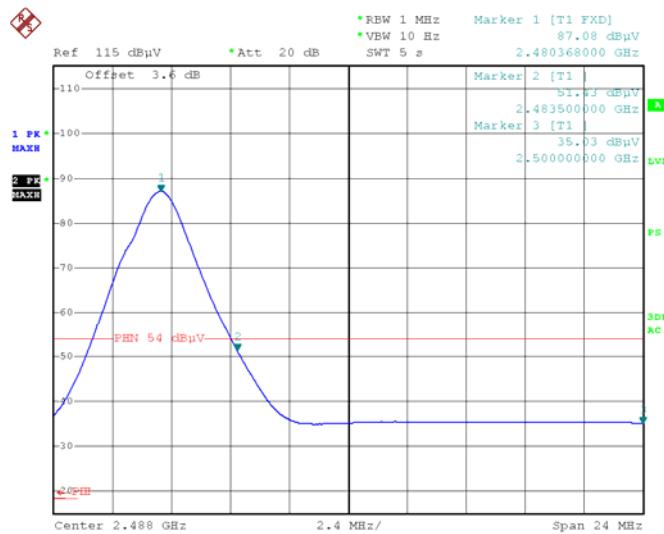


Date: 5.DEC.2013 15:07:44

Band Edges (CH-Low)

Detector mode: Average

Polarity: Vertical



Date: 2.DEC.2013 16:54:28

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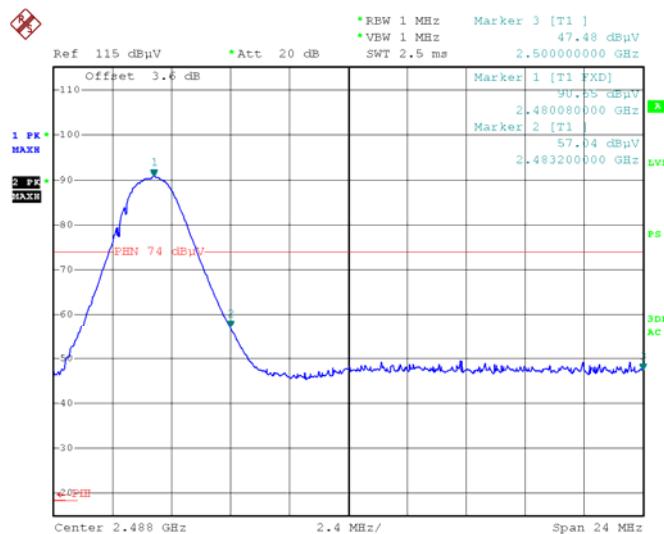
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Band Edges (CH-High)

Detector mode: Peak

Polarity: Horizontal

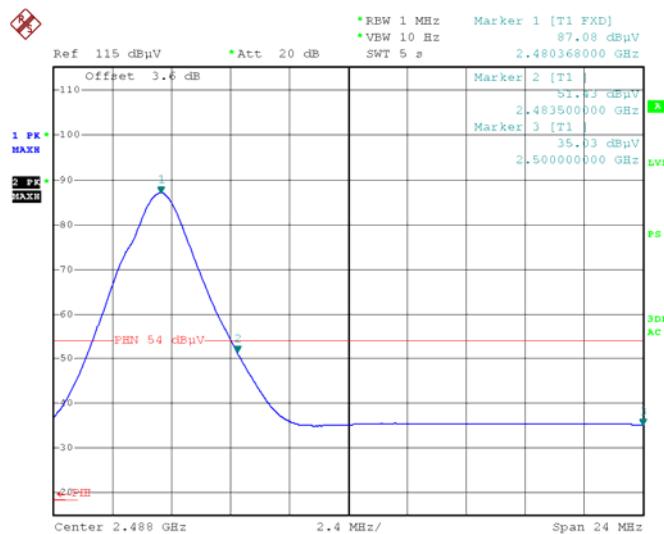


Date: 2.DEC.2013 16:57:15

Band Edges (CH-High)

Detector mode: Average

Polarity: Horizontal



Date: 2.DEC.2013 16:54:28

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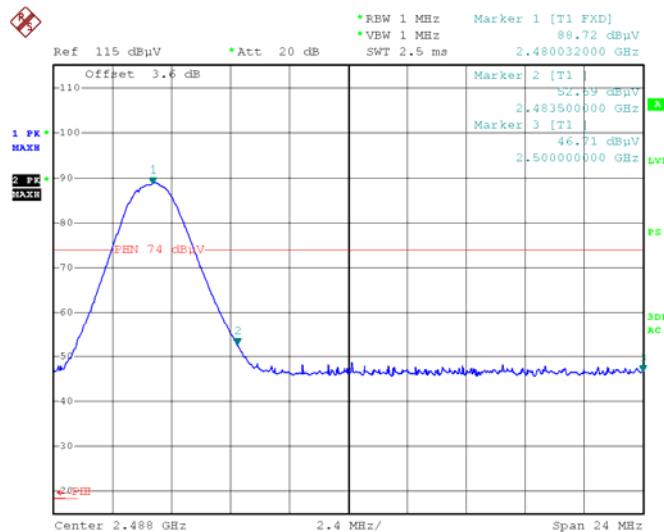
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Band Edges (CH-High)

Detector mode: Peak

Polarity: Vertical

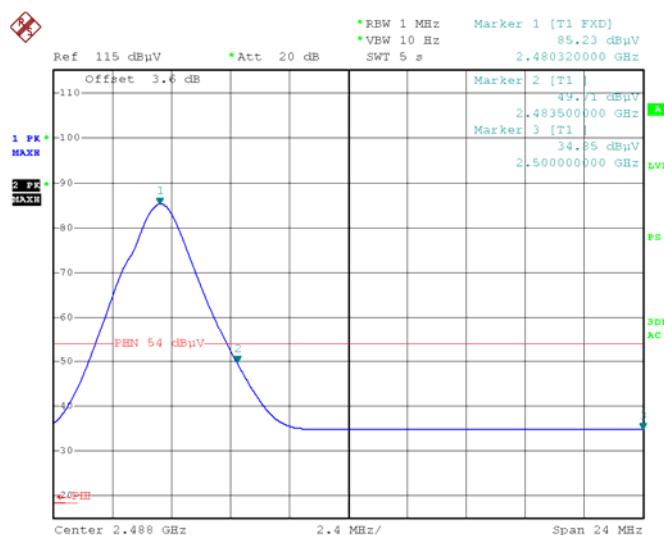


Date: 2.DEC.2013 16:33:23

Band Edges (CH-High)

Detector mode: Average

Polarity: Vertical



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Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

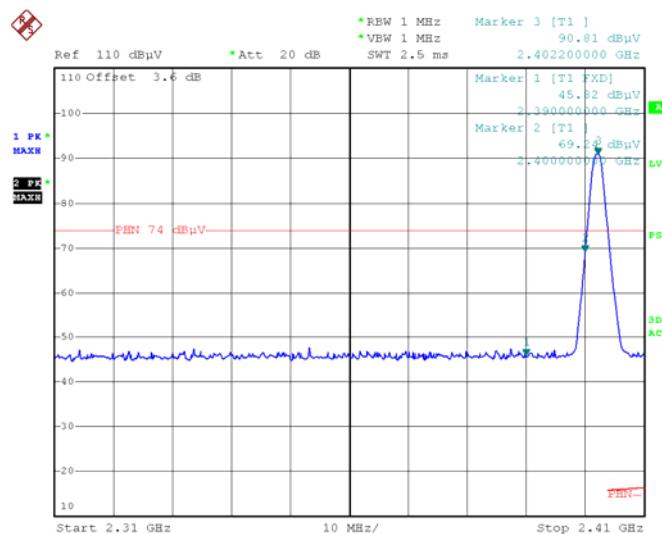
See Reverse For Terms And Conditions of Service

8DPSK

Band Edges (CH-Low)

Detector mode: Peak

Polarity: Horizontal

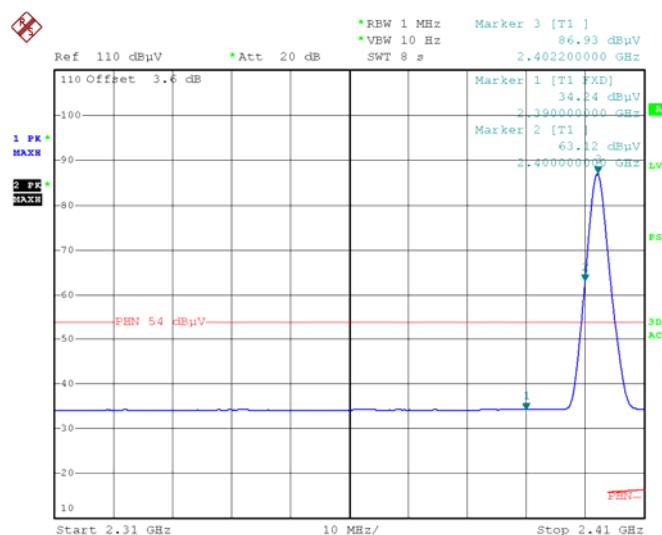


Date: 5.DEC.2013 15:00:37

Band Edges (CH-Low)

Detector mode: Average

Polarity: Horizontal



Date: 5.DEC.2013 14:59:00

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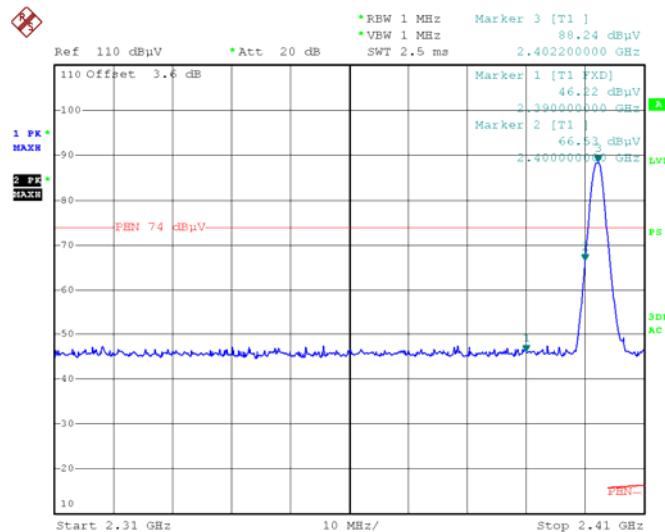
E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Band Edges (CH-Low)

Detector mode: Peak

Polarity: Vertical

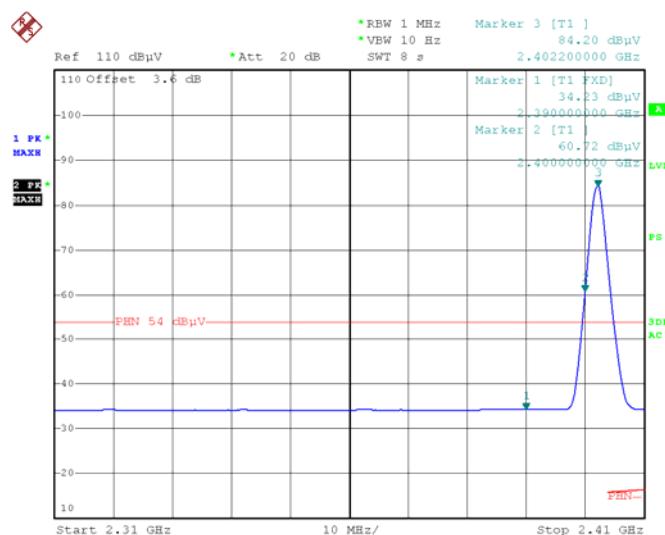


Date: 5.DEC.2013 15:12:07

Band Edges (CH-Low)

Detector mode: Average

Polarity: Vertical



Date: 5.DEC.2013 15:11:10

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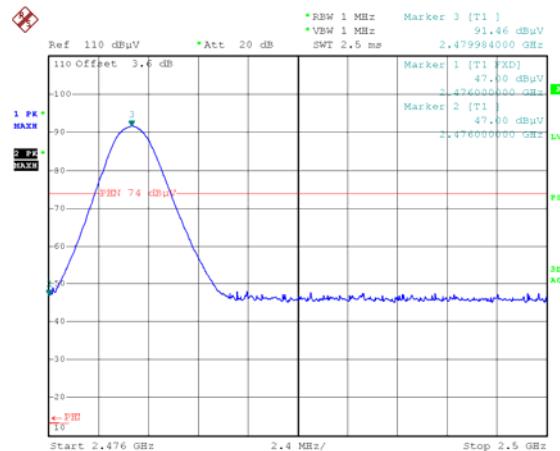
E-mail: cts@cts-lab.com.cn

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Band Edges (CH-High)

Detector mode: Peak

Polarity: Horizontal

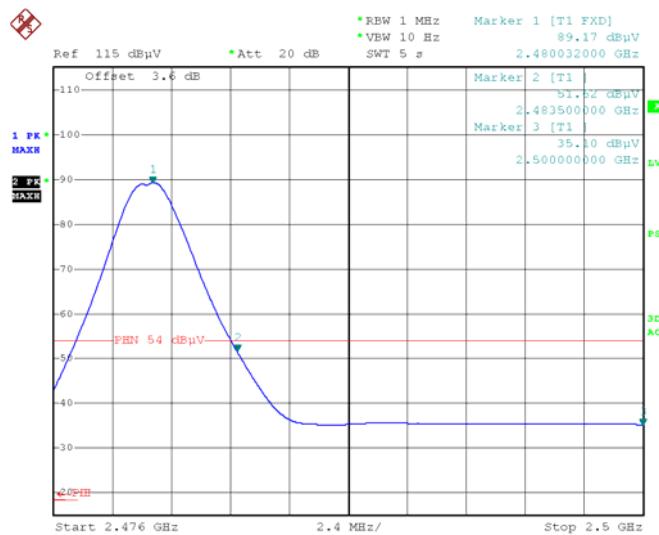


Date: 5.DEC.2013 15:38:12

Band Edges (CH-High)

Detector mode: Average

Polarity: Horizontal



Date: 2.DEC.2013 16:20:35

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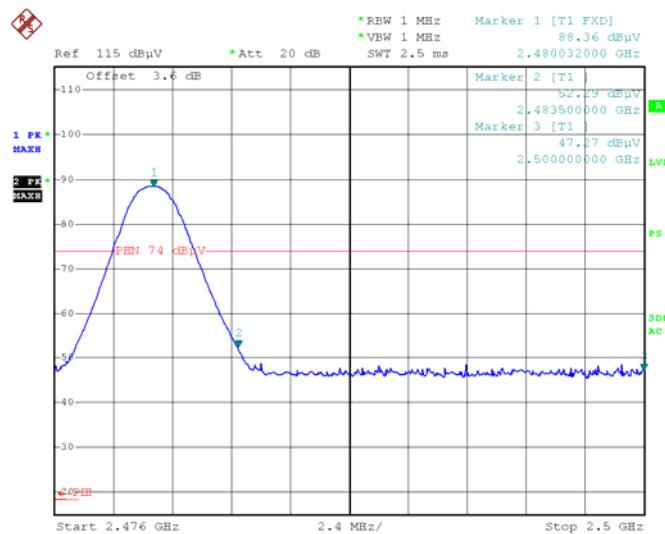
E-mail: cts@cts-lab.com.cn

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Band Edges (CH-High)

Detector mode: Peak

Polarity: Vertical

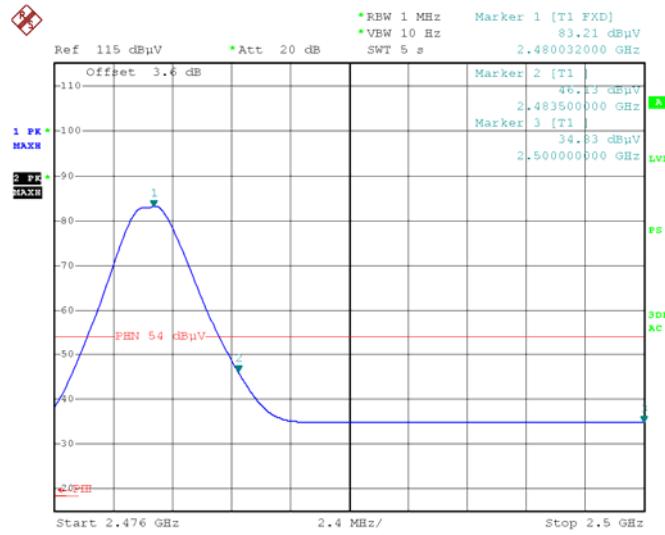


Date: 2.DEC.2013 16:24:24

Band Edges (CH-High)

Detector mode: Average

Polarity: Vertical



Date: 2.DEC.2013 16:25:12

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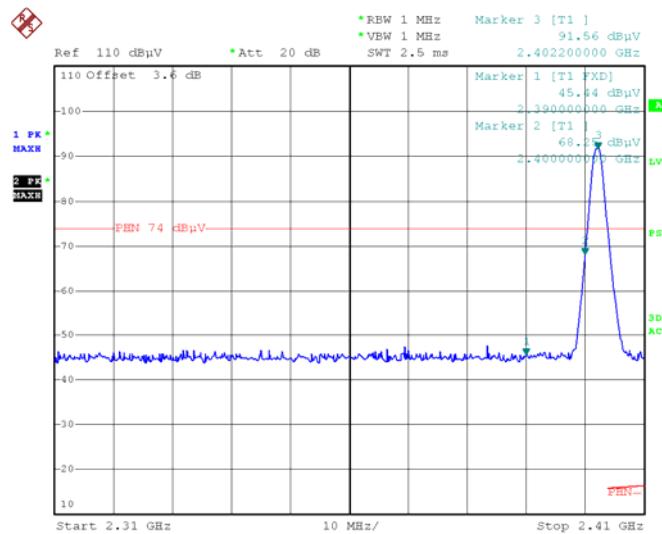
PCB Antenna

QPSK

Band Edges (CH-Low)

Detector mode: Peak

Polarity: Horizontal

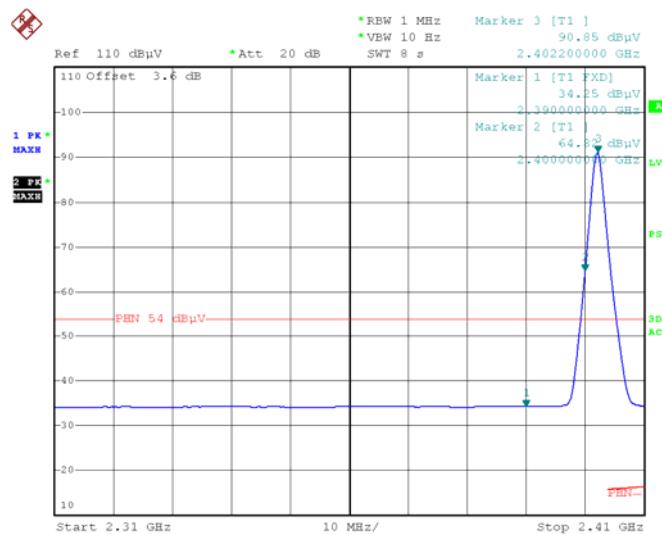


Date: 5.DEC.2013 14:51:32

Band Edges (CH-Low)

Detector mode: Average

Polarity: Horizontal



Date: 5.DEC.2013 14:52:04

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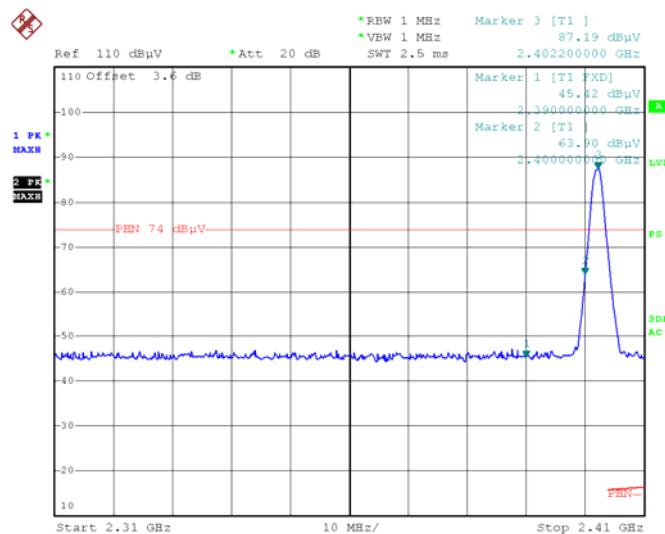
E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Band Edges (CH-Low)

Detector mode: Peak

Polarity: Vertical

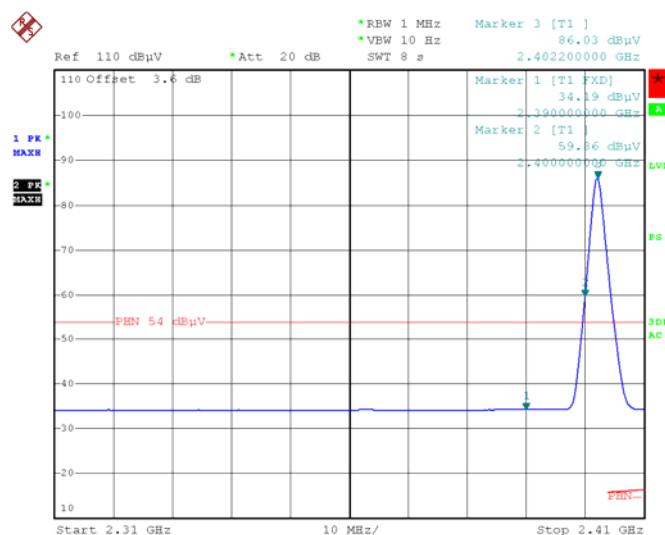


Date: 5.DEC.2013 15:14:07

Band Edges (CH-Low)

Detector mode: Average

Polarity: Vertical



Date: 5.DEC.2013 15:15:35

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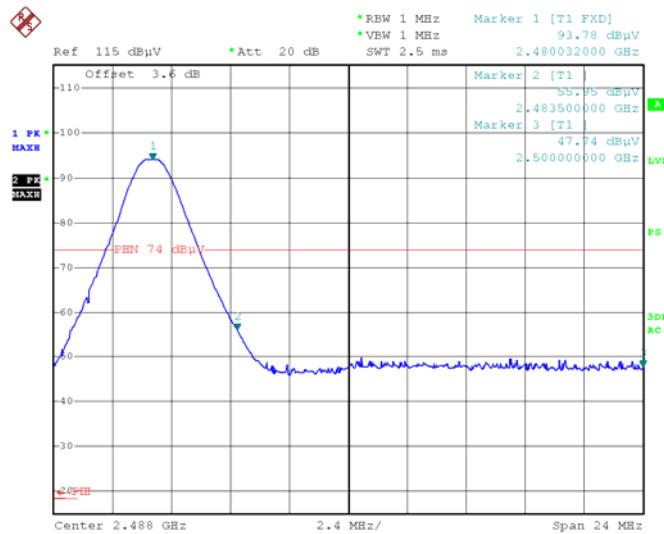
E-mail: cts@cts-lab.com.cn

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Band Edges (CH-High)

Detector mode: Peak

Polarity: Horizontal

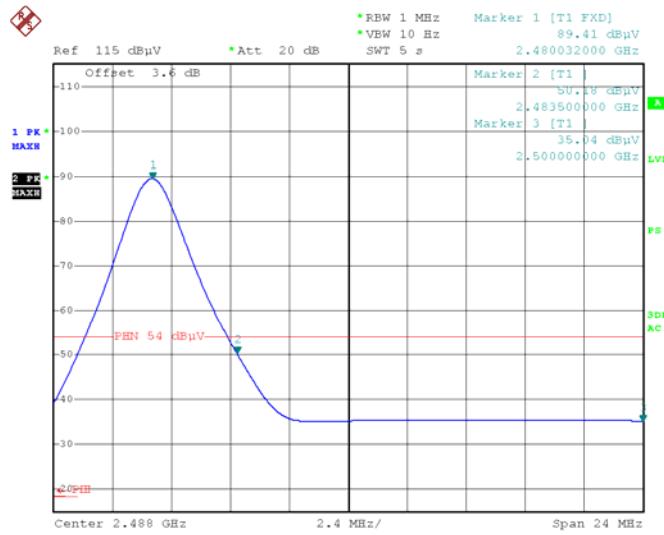


Date: 2.DEC.2013 16:40:23

Band Edges (CH-High)

Detector mode: Average

Polarity: Horizontal



Date: 2.DEC.2013 16:49:31

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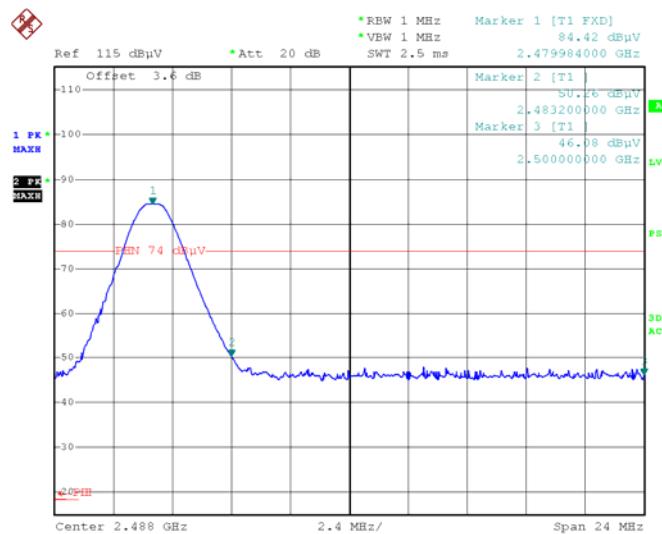
E-mail: cts@cts-lab.com.cn

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Band Edges (CH-High)

Detector mode: Peak

Polarity: Vertical

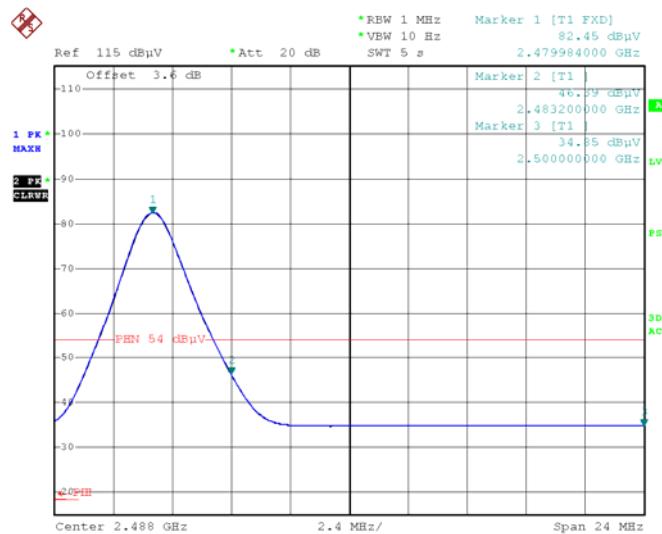


Date: 2.DEC.2013 17:07:19

Band Edges (CH-High)

Detector mode: Average

Polarity: Vertical



Date: 2.DEC.2013 17:06:44

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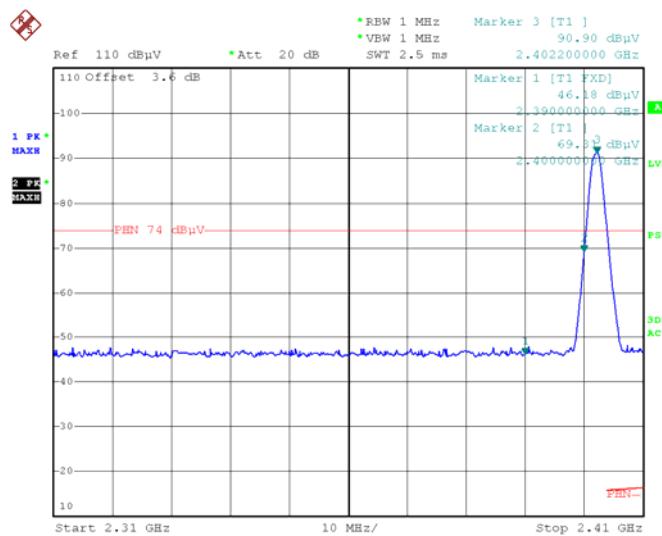
E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

π/4-DQPSK**Band Edges (CH-Low)**

Detector mode: Peak

Polarity: Horizontal

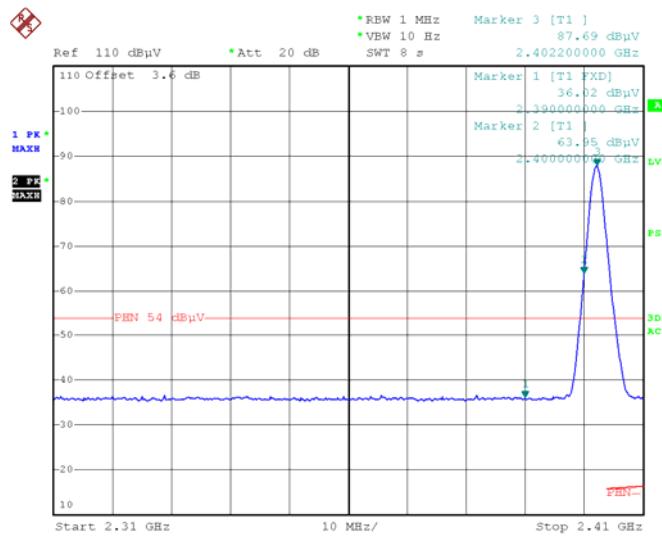


Date: 5.DEC.2013 15:03:47

Band Edges (CH-Low)

Detector mode: Average

Polarity: Horizontal



Date: 5.DEC.2013 14:57:13

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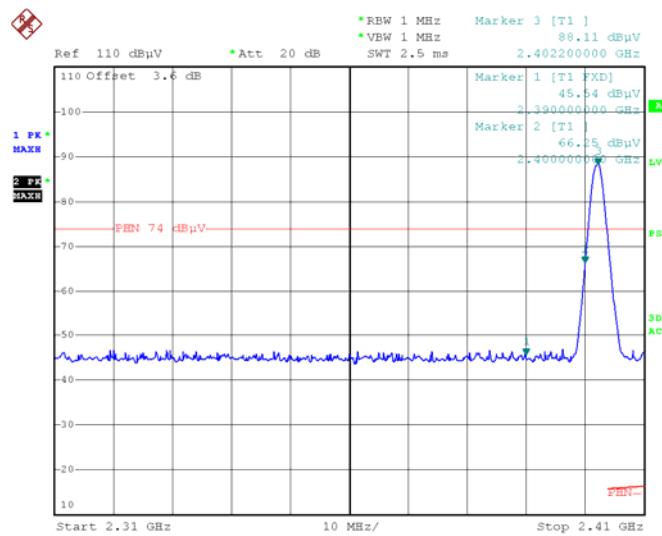
E-mail: cts@cts-lab.com.cn

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Band Edges (CH-Low)

Detector mode: Peak

Polarity: Vertical

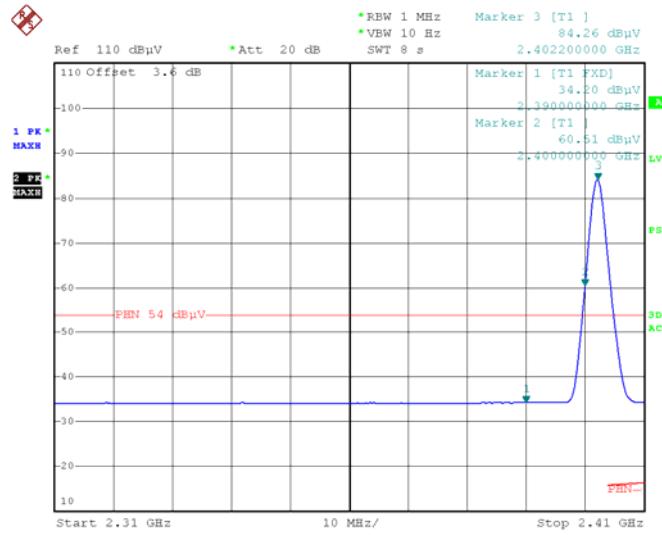


Date: 5.DEC.2013 15:08:05

Band Edges (CH-Low)

Detector mode: Average

Polarity: Vertical



Date: 5.DEC.2013 15:08:57

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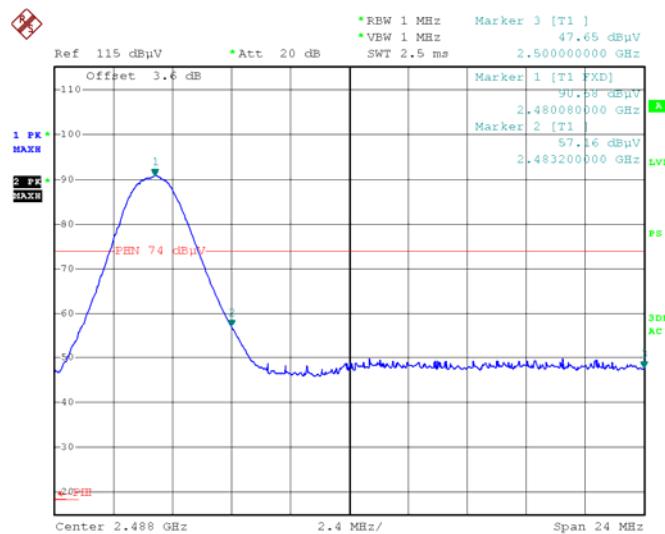
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Band Edges (CH-High)

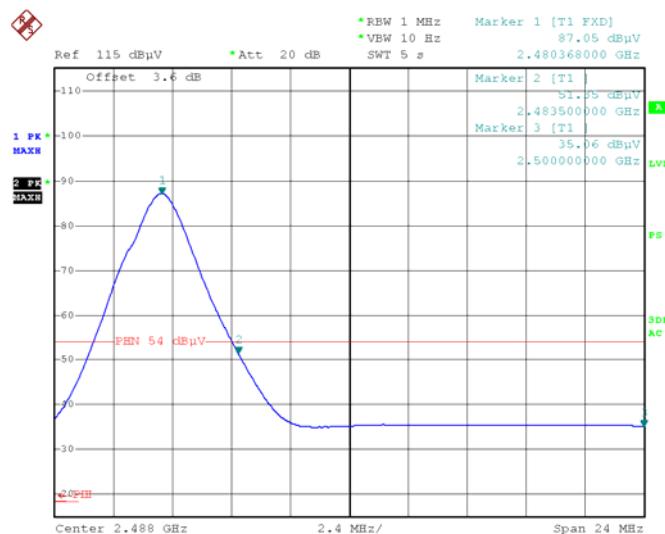
Detector mode: Peak

Polarity: Horizontal

Date: 2.DEC.2013 16:56:50

Band Edges (CH-High)

Detector mode: Average

Polarity: Horizontal

Date: 2.DEC.2013 16:55:13

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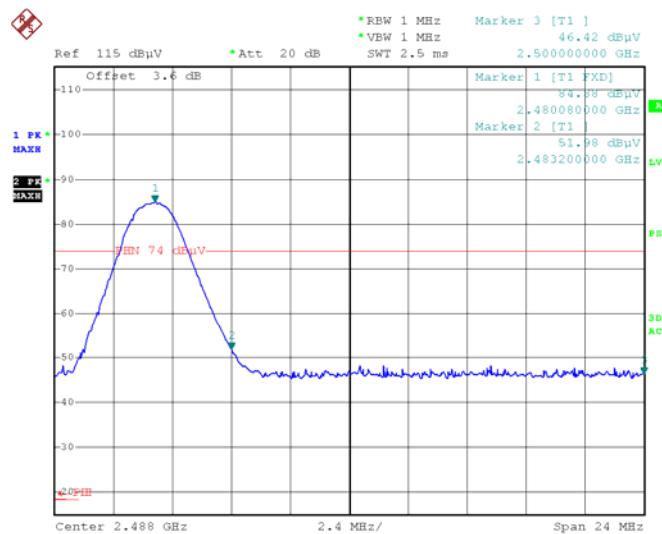
E-mail: cts@cts-lab.com.cn

See Reverse For Terms And Conditions of Service

Band Edges (CH-High)

Detector mode: Peak

Polarity: Vertical

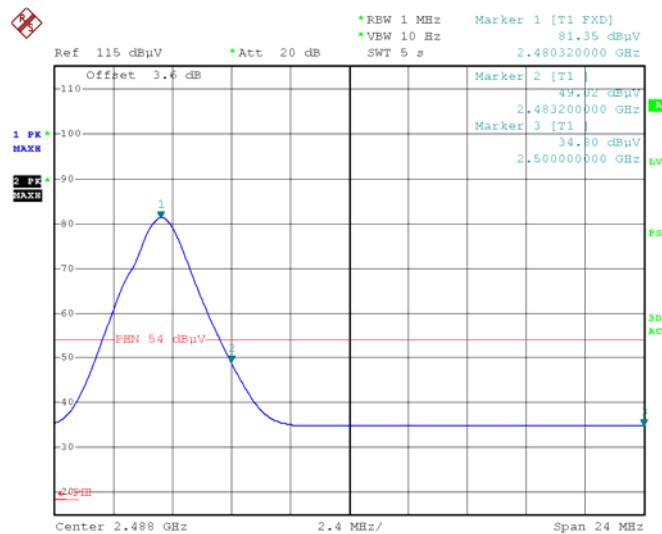


Date: 2.DEC.2013 17:03:34

Band Edges (CH-High)

Detector mode: Average

Polarity: Vertical



Date: 2.DEC.2013 17:04:09

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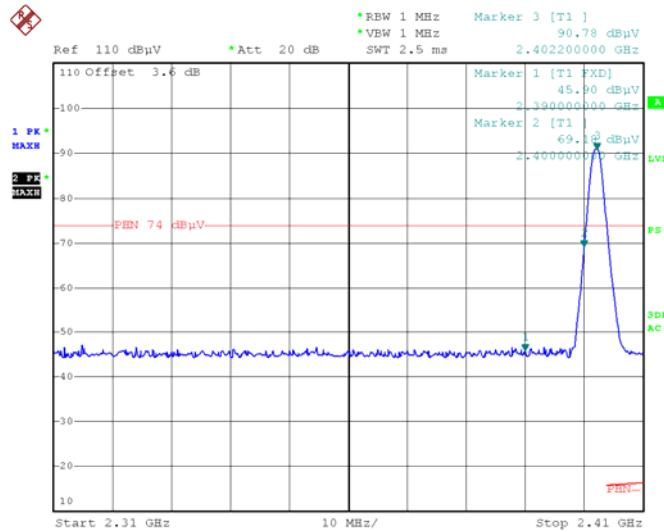
See Reverse For Terms And Conditions of Service

8DPSK

Band Edges (CH-Low)

Detector mode: Peak

Polarity: Horizontal

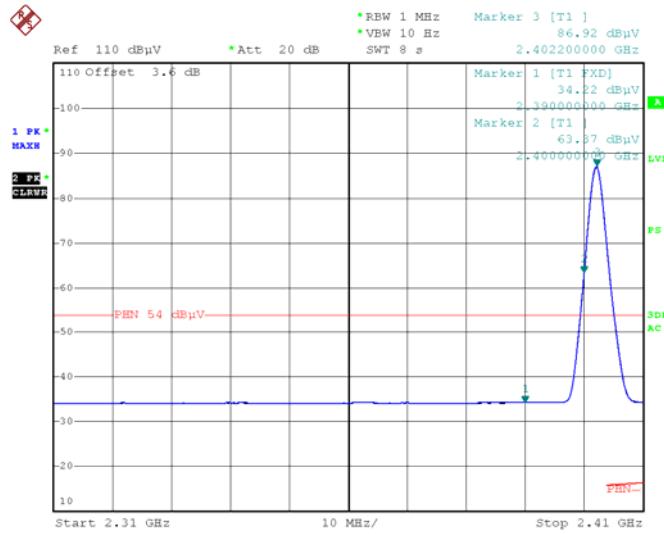


Date: 5.DEC.2013 15:01:03

Band Edges (CH-Low)

Detector mode: Average

Polarity: Horizontal



Date: 5.DEC.2013 15:00:01

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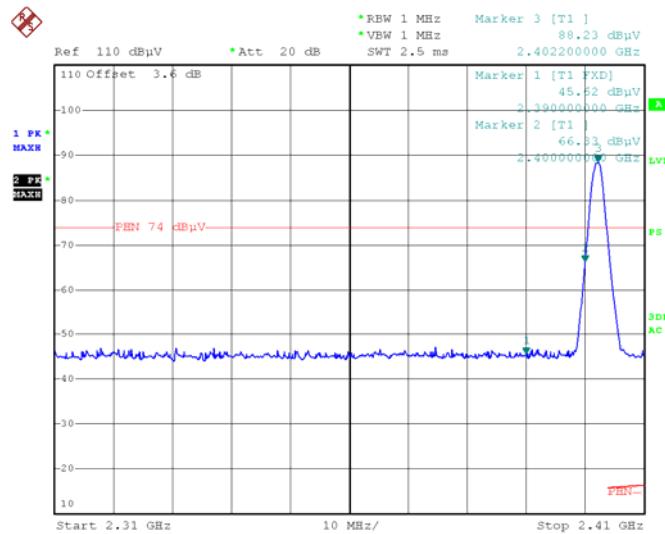
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Band Edges (CH-Low)

Detector mode: Peak

Polarity: Vertical

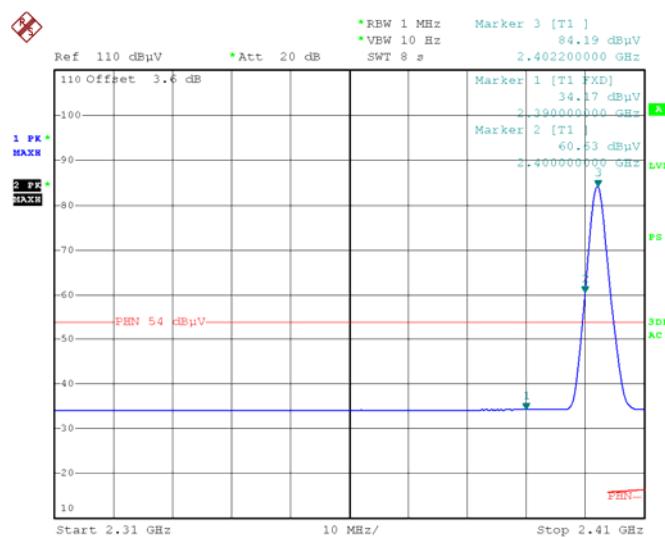


Date: 5.DEC.2013 15:12:19

Band Edges (CH-Low)

Detector mode: Average

Polarity: Vertical



Date: 5.DEC.2013 15:11:39

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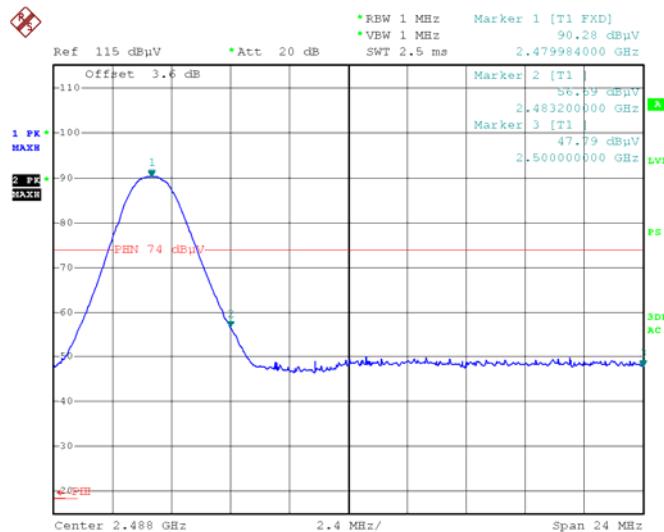
E-mail: cts@cts-lab.com.cn

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Band Edges (CH-High)

Detector mode: Peak

Polarity: Horizontal

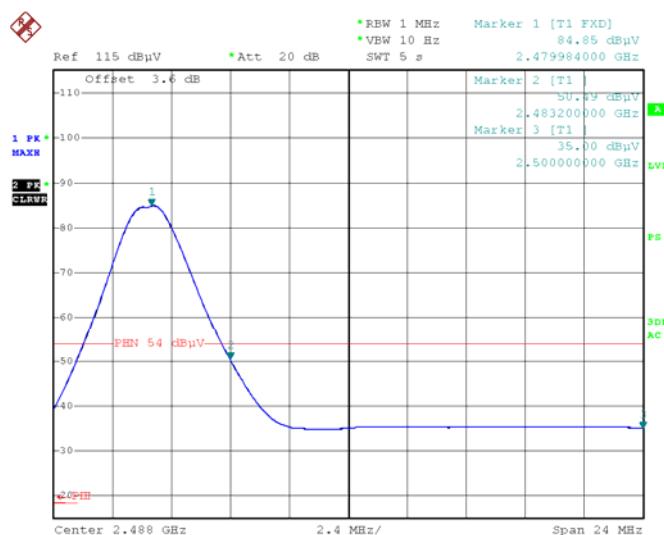


Date: 2.DEC.2013 17:23:03

Band Edges (CH-High)

Detector mode: Average

Polarity: Horizontal



Date: 2.DEC.2013 17:16:02

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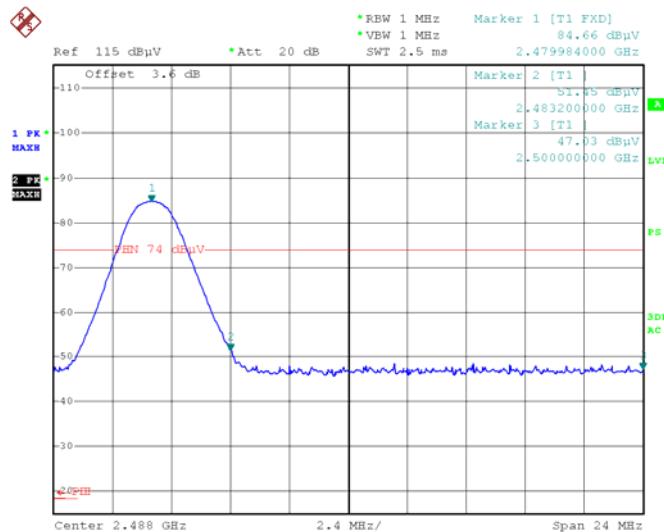
E-mail: cts@cts-lab.com.cn

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Band Edges (CH-High)

Detector mode: Peak

Polarity: Vertical

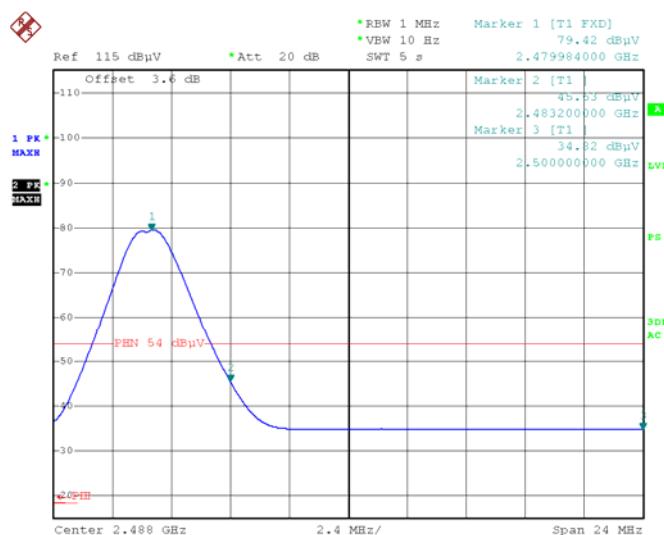


Date: 2.DEC.2013 17:10:20

Band Edges (CH-High)

Detector mode: Average

Polarity: Vertical



Date: 2.DEC.2013 17:12:05

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11.0 FREQUENCY SEPARATION

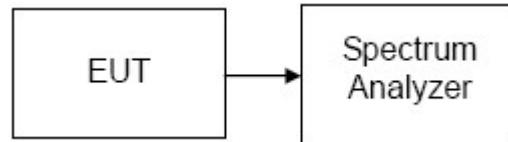
11.1 LIMIT

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

11.2 MEASUREMENT EQUIPMENT USED

Frequency Separation					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03

11.3 TEST CONFIGURATION



11.4 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as RBW=30kHz, VBW=30kHz, Adjust Span to 4 MHz, Sweep = auto.
5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

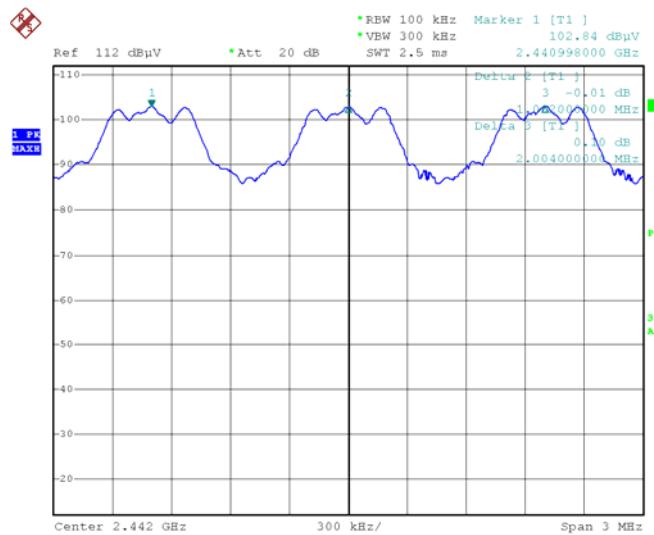
11.5 TEST RESULTS

PASSED

Test Data

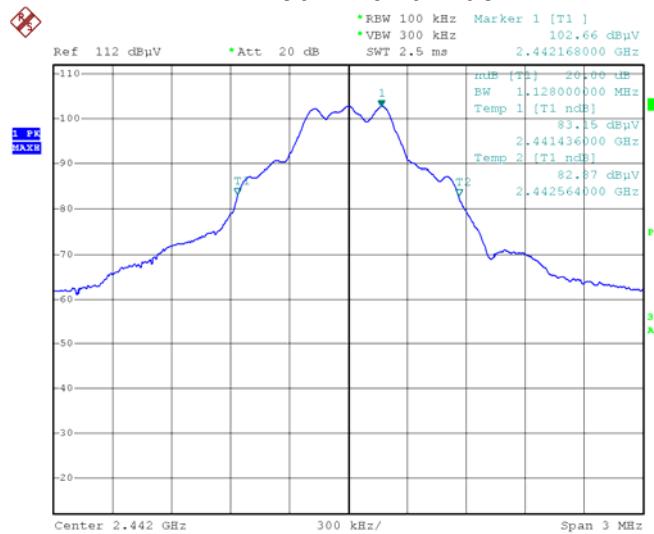
GFSK

Channel Separation (MHz)	Two-thirds of the 20dB Bandwidth (MHz)	Channel Separation Limit	Result
1MHz	0.752	> Two-thirds of the 20 dB Bandwidth	PASSED



Date: 23.SEP.2013 17:08:49

20dB Bandwidth



Date: 23.SEP.2013 16:59:30

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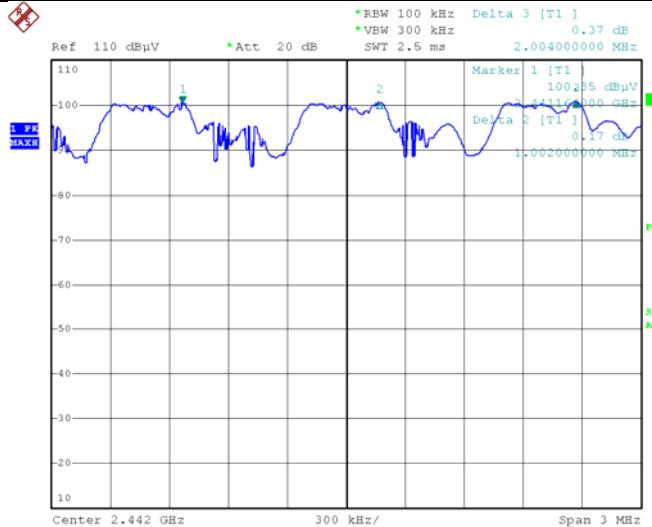
Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

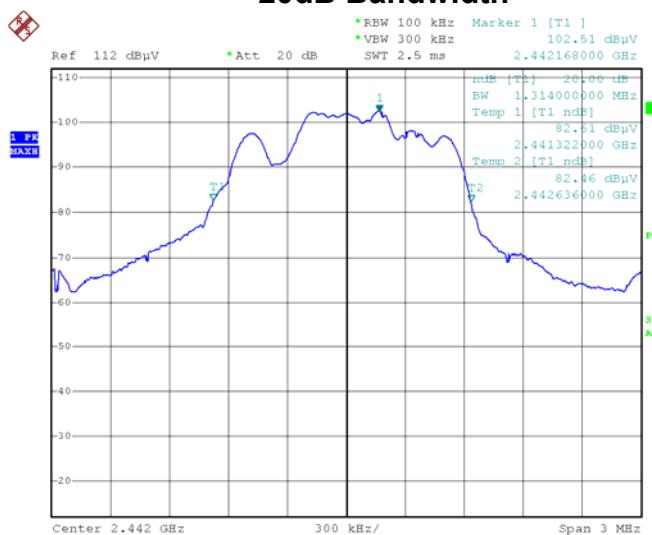
See Reverse For Terms And Conditions of Service

π/4-DQPSK

Channel Separation (MHz)	Two-thirds of the 20dB Bandwidth (MHz)	Channel Separation Limit	Result
1MHz	0.876	> Two-thirds of the 20 dB Bandwidth	PASSED



Date: 25.SEP.2013 13:49:27

20dB Bandwidth

Date: 23.SEP.2013 16:58:11

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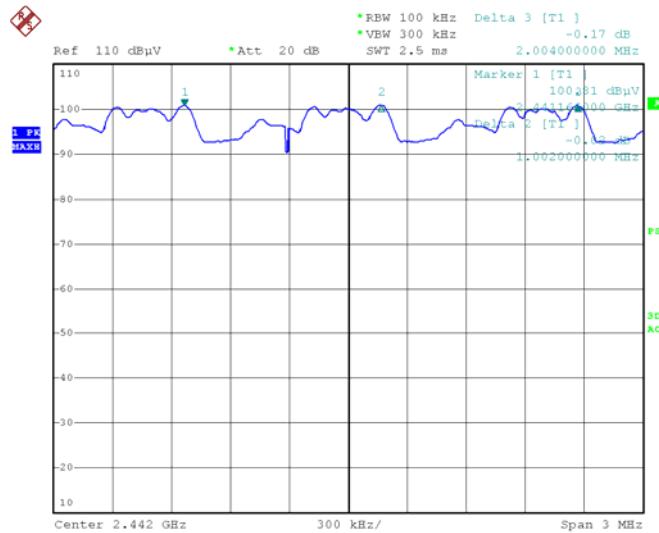
Complaint line: +86-20-85533471

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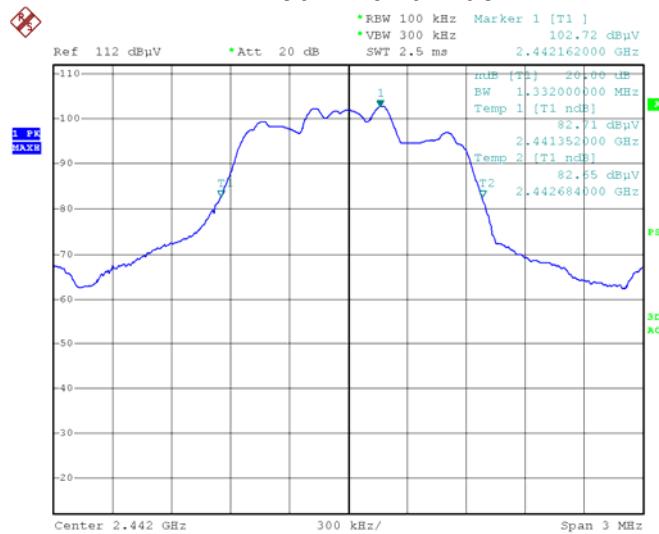
8DPSK

Channel Separation (MHz)	Two-thirds of the 20dB Bandwidth (MHz)	Channel Separation Limit	Result
1MHz	0.888	> Two-thirds of the 20 dB Bandwidth	PASSED



Date: 25.SEP.2013 13:54:04

20dB Bandwidth



Date: 23.SEP.2013 15:07:03

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12.0 NUMBER OF HOPPING FREQUENCY

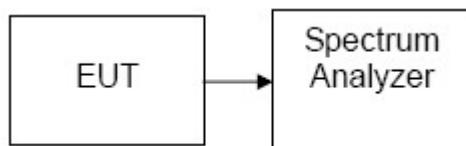
12.1 LIMIT

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

12.2 MEASUREMENT EQUIPMENT USED

Peak Power Spectral Density					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03

12.3 TEST CONFIGURATION



12.4 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set spectrum analyzer Start=2400MHz, Stop = 2442 MHz, Sweep = 1ms and Start=2441MHz, Stop = 2483.5MHz, Sweep = 1ms.
4. Set the spectrum analyzer as RBW, VBW=300kHz,
5. Max hold, view and count how many channel in the band.

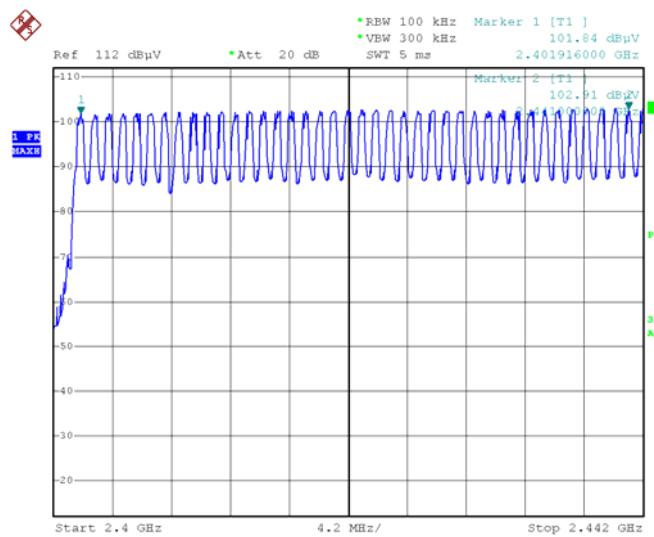
12.5 TEST RESULTS

PASSED

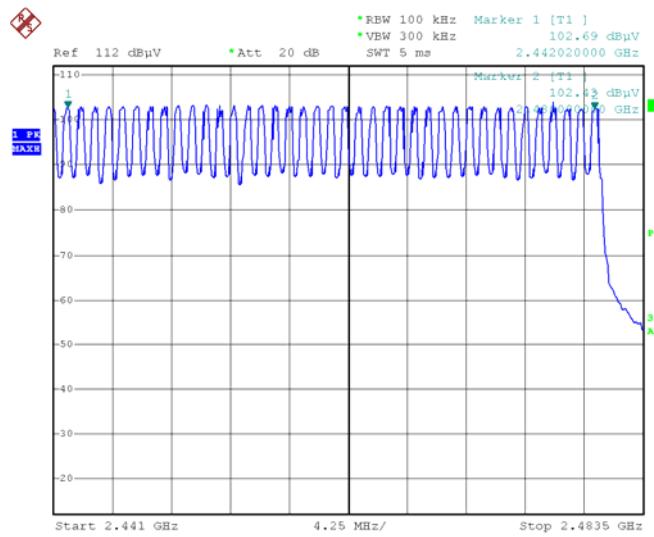
12.6 Test Data

Result(No. of CH)	Limit	Result
79	>15	Pass

Test Plot GFSK



Date: 23.SEP.2013 17:24:46



Date: 23.SEP.2013 17:44:17

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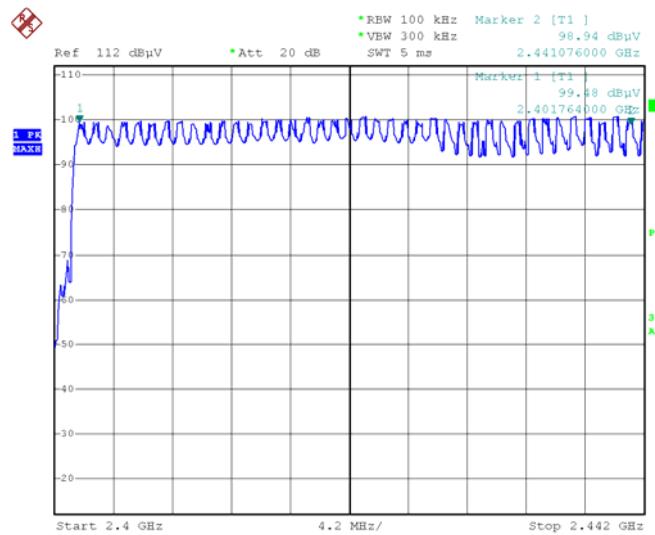
Fax: +86-20-38780406

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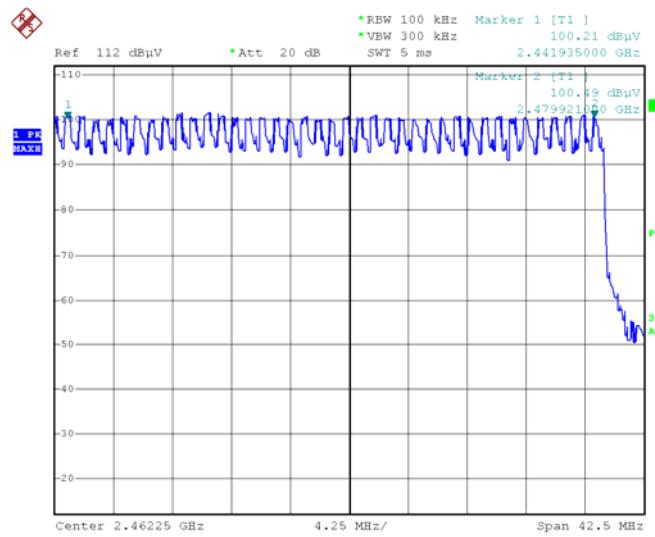
E-mail: cts@cts-lab.com.cn

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Test Plot π/4-DQPSK



Date: 25.SEP.2013 14:15:21



Date: 25.SEP.2013 14:32:13

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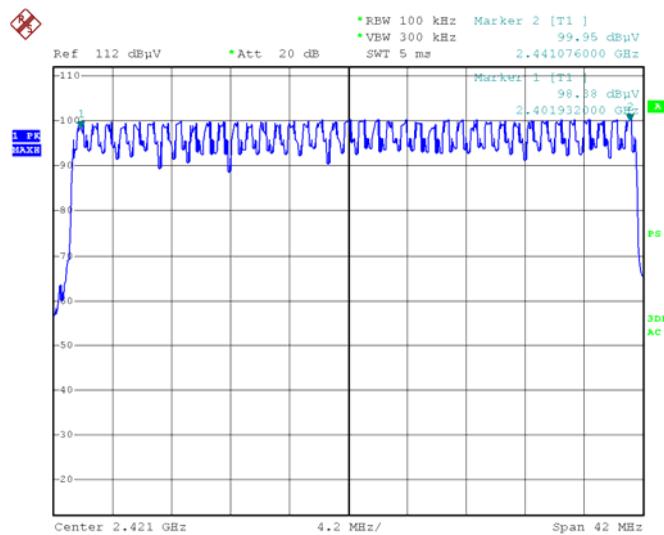
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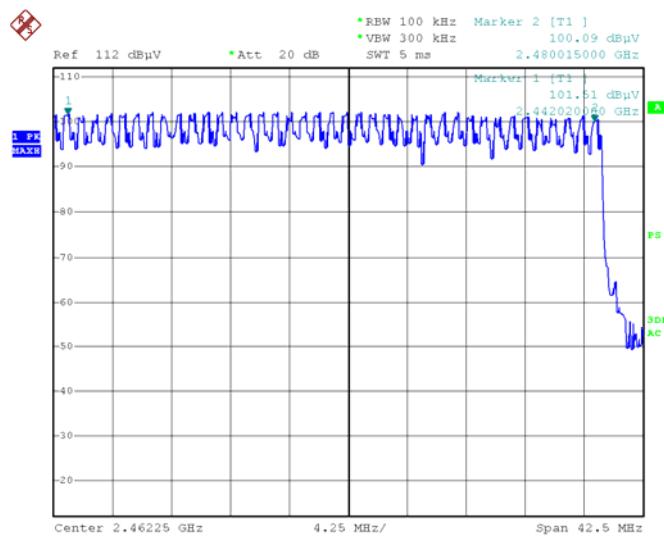
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Test Plot 8DPSK



Date: 25.SEP.2013 14:59:12



Date: 25.SEP.2013 14:44:33

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13.0 TIME OF OCCUPANCY (DWELL TIME)

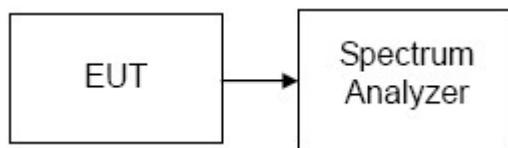
13.1 LIMIT

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-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.

13.2 MEASUREMENT EQUIPMENT USED

Frequency Separation					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03

13.3 TEST CONFIGURATION



13.4 TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
5. Repeat above procedures until all frequency measured were complete.

13.5 TEST RESULTS

PASSED

13.6 Test Data

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GFSK**DH1**CH Middle: $0.385*(1600/2)/79*31.6=123.2(\text{ms})$

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	0.385	123.2	31.6	400	Pass

DH3CH Middle: $1.650*(1600/4)/79*31.6=264.0(\text{ms})$

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	1.650	264.0	31.6	400	Pass

DH5CH Middle: $2.89*(1600/6)/79*31.6=308.27(\text{ms})$

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	2.89	308.27	31.6	400	Pass

π/4-DQPSK**DH1**CH Middle: $0.390*(1600/2)/79*31.6=124.8(\text{ms})$

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	0.390	124.8	31.6	400	Pass

DH3CH Middle: $1.650*(1600/4)/79*31.6=264.0(\text{ms})$

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	1.650	264.0	31.6	400	Pass

DH5CH Middle: $2.885*(1600/6)/79*31.6=307.73(\text{ms})$

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	2.885	307.73	31.6	400	Pass

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8DPSK**DH1**CH Middle: $0.390*(1600/2)/79*31.6=124.8$ (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	0.390	124.8	31.6	400	Pass

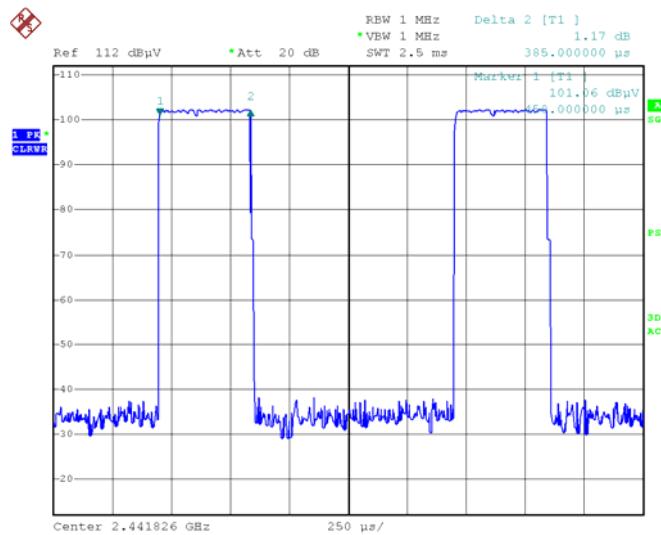
DH3CH Middle: $1.650*(1600/4)/79*31.6=264.0$ (ms)

CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	1.650	264.0	31.6	400	Pass

DH5CH Middle: $2.885*(1600/6)/79*31.6=307.73$ (ms)

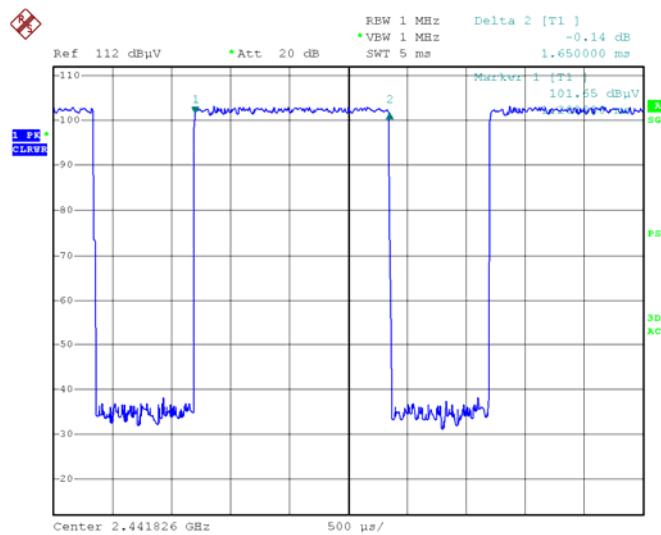
CH	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
Middle	2.885	307.73	31.6	400	Pass

Test Plot
GFSK
DH 1
(CH Mid)



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DH 3
(CH Mid)



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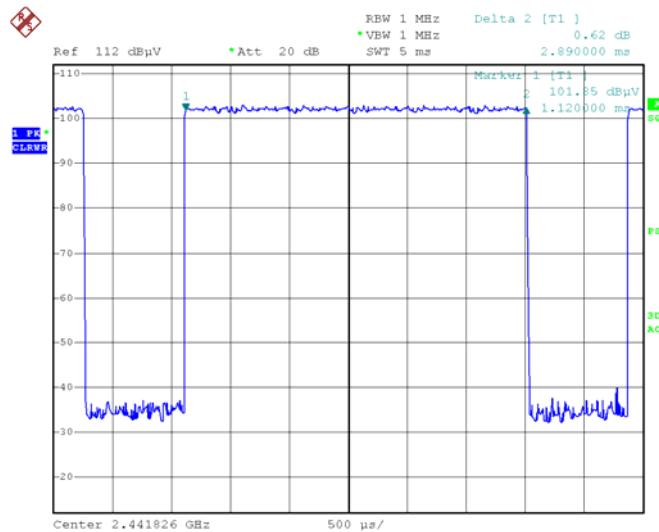
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DH 5
(CH Mid)


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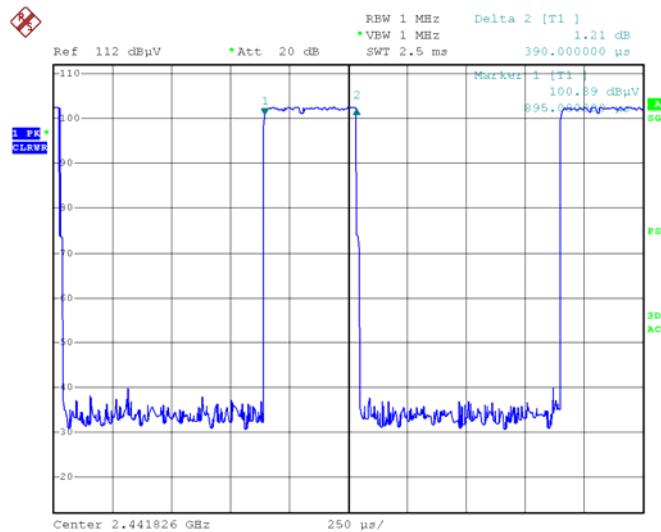
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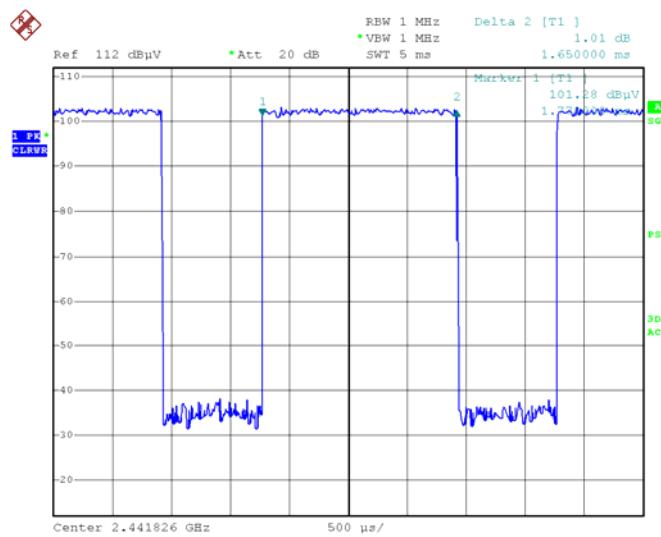
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$\pi/4$ -DQPSK
DH 1
(CH Mid)



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DH 3
(CH Mid)



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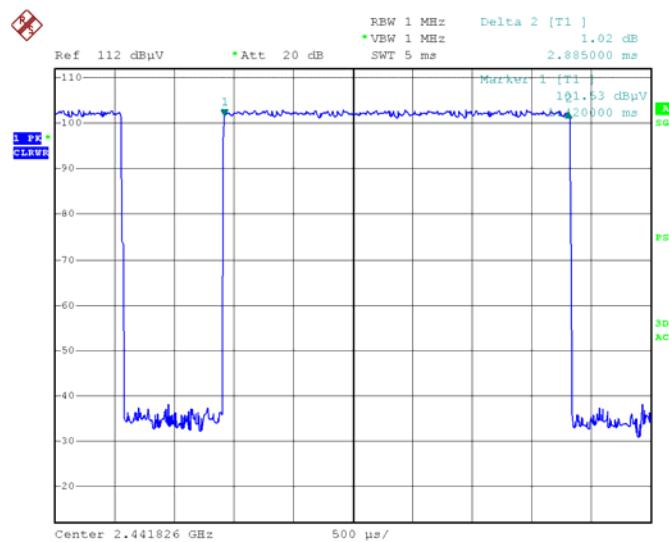
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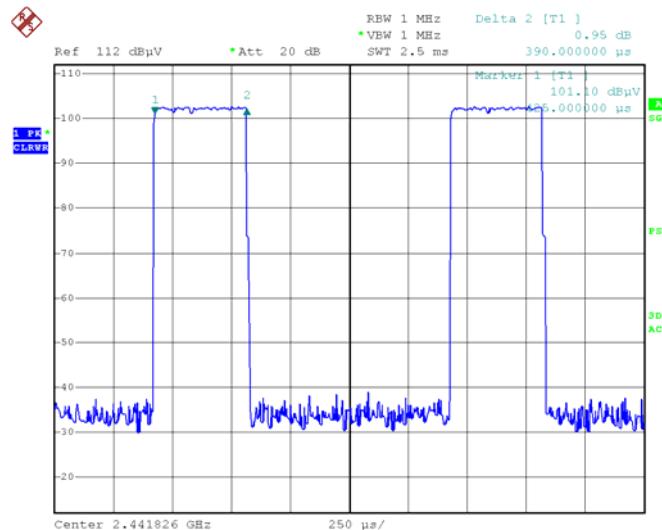
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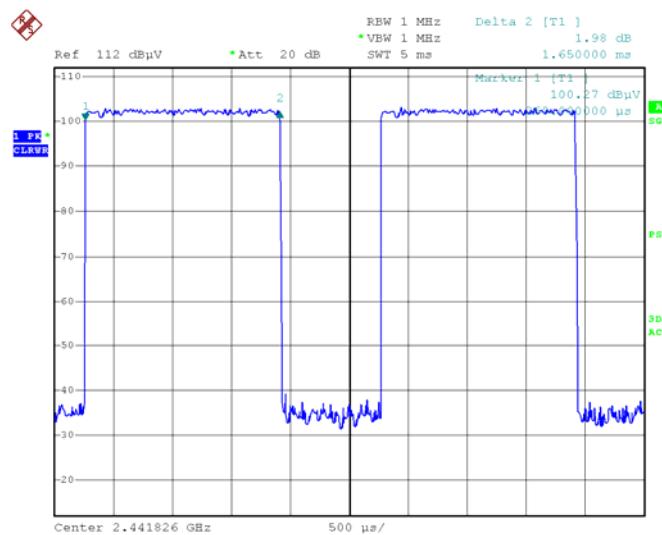
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8DPSK
DH 1
(CH Mid)



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DH 3
(CH Mid)



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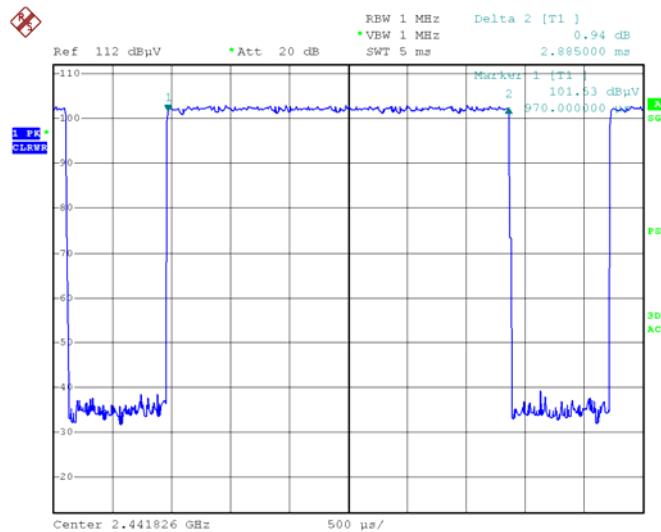
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DH 5
(CH Mid)


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14.0 SPURIOUS EMISSIONS

14.1 LIMIT

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Note: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

14.2 Test Equipment

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2012/11
2	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2013/03
3	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2013/03
4	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2013/03
5	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03
6	Loop Antenna	A.R.A	PLA-1030/B	1030	2012/11
7	EMI Test Software	EZ-EMC	Farad	N/A	N/A

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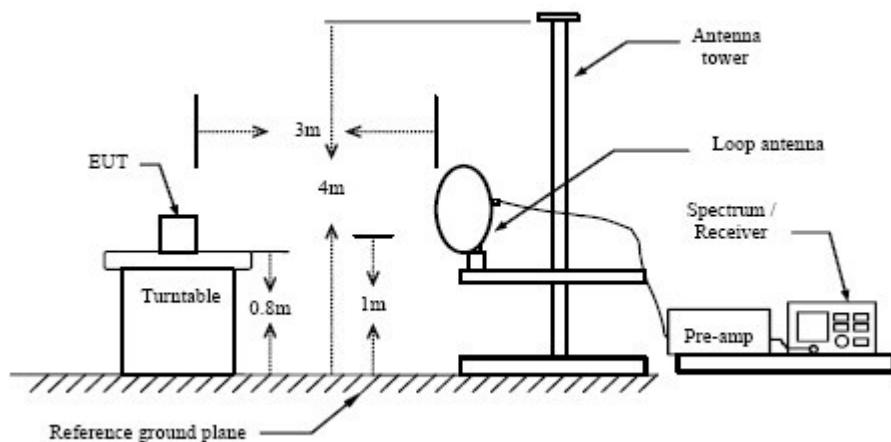
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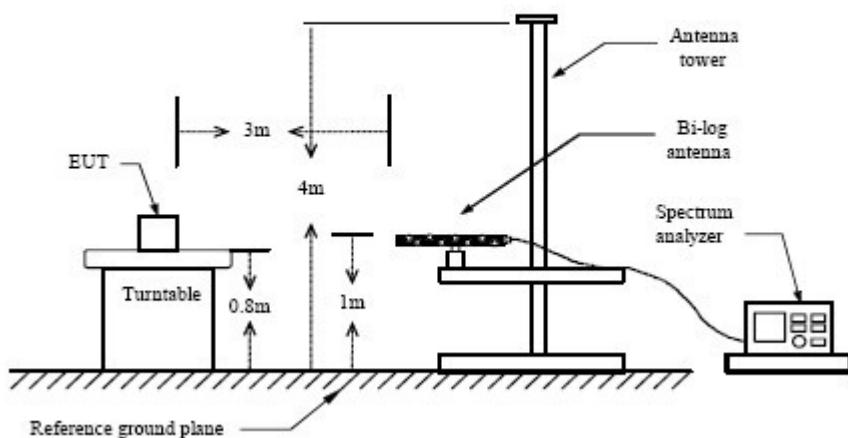
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14.3 TEST CONFIGURATION

Below 30MHz



Below 1 GHz



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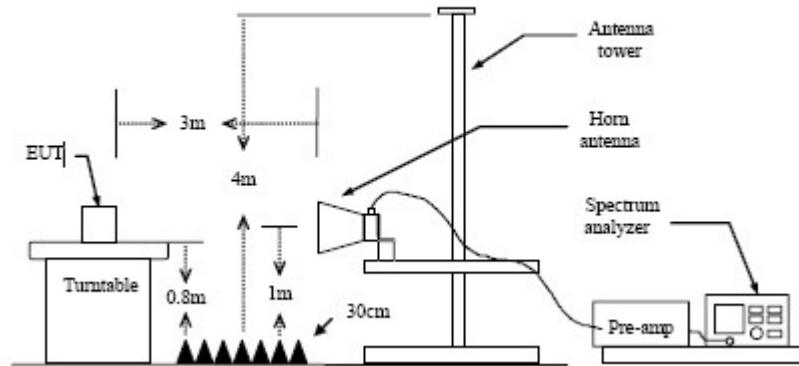
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Above 1 GHz



14.4 TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m 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.

14.5 TEST RESULTS

The frequency range from 9KHz~30MHz, 30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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Test Mode:	TX -X Position Mode	Result:	■ - passed
Frequency range:	9KHz~30MHz		□ - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
Remark: The test result reading value is to low, margin all > 10dB of the limit.							

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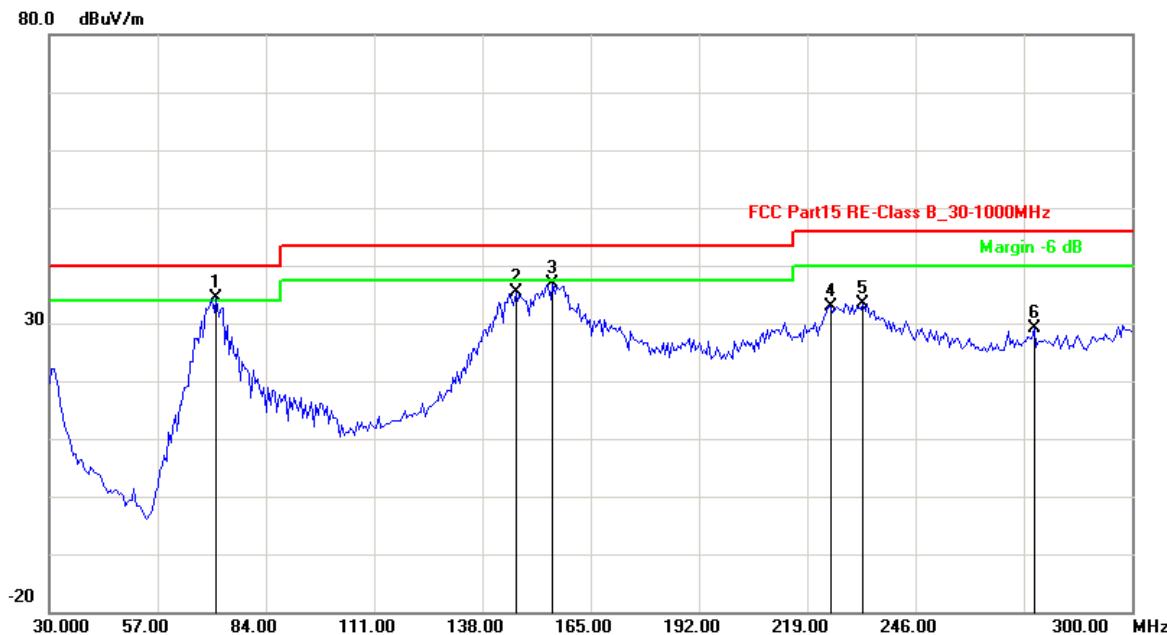
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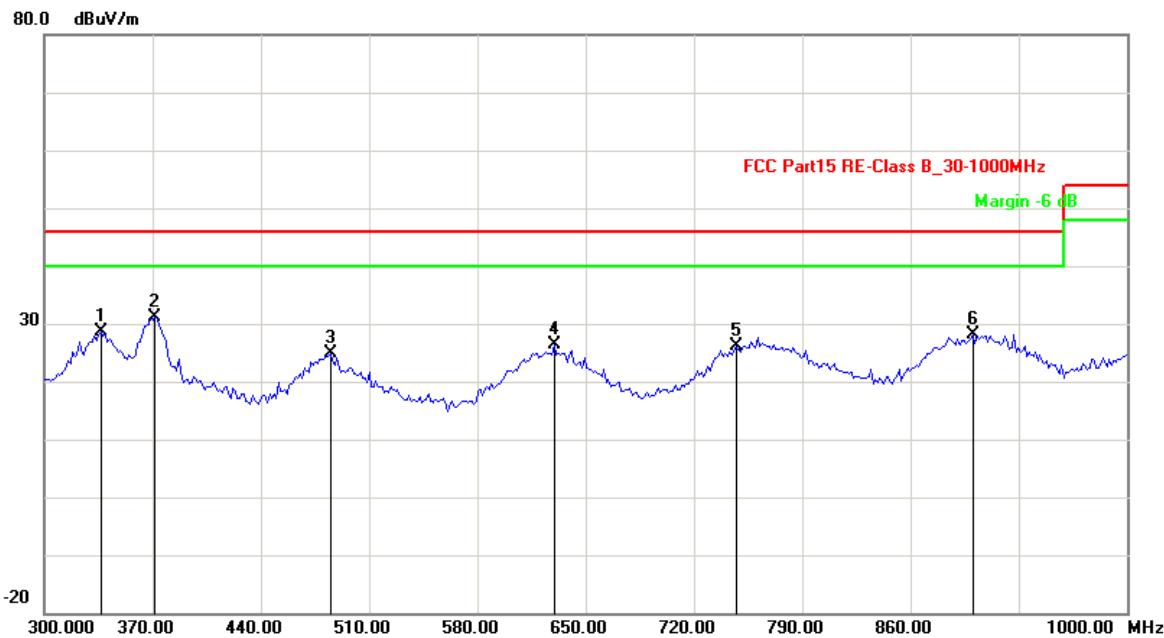
EUT	Wifi+BT combo card
Antenna Type	PCB Antenna
Operating Condition	DC 3.3V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	02~23 September 2013
Operator	Duke
MODEL NO	WLU6300B(T-RoHS)

Channel:	TX -X Position	Result:	■ - passed
Test point:	Horizontal		
Frequency range:	30MHz-1GHz		□ - not passed



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	71.6633	-22.57	56.89	34.32	40.00	-5.68	QP
2	146.3327	-16.99	52.47	35.48	43.50	-8.02	QP
3	155.5311	-18.22	54.98	36.76	43.50	-6.74	QP
4	224.7896	-12.39	45.33	32.94	46.00	-13.06	QP
5	232.9058	-12.57	46.07	33.50	46.00	-12.50	QP
6	275.6513	-10.39	39.43	29.04	46.00	-16.96	QP

Remark: Other frequency mini margin all >10 dB of Limit



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	336.4729	-13.97	42.62	28.65	46.00	-17.35	QP
2	371.5431	-14.45	45.49	31.04	46.00	-14.96	QP
3	485.1703	-9.81	34.68	24.87	46.00	-21.13	QP
4	629.6593	-7.33	33.63	26.30	46.00	-19.70	QP
5	747.4950	-6.54	32.76	26.22	46.00	-19.78	QP
6	900.4008	-3.92	31.99	28.07	46.00	-17.93	QP

Remark: Other frequency mini margin all >10 dB of Limit

Mode: GFSK	Result: <input checked="" type="checkbox"/> - passed
Channel: Low Channel	
Test point: Horizontal	
Frequency range: 1GHz-26.5GHz	

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2829.659	5.64	44.43	50.07	74.00	-23.93	peak
2	2829.659	5.64	30.04	35.68	54.00	-18.32	AVG
3	3336.673	7.68	43.17	50.85	74.00	-23.15	peak
4	3336.673	7.68	27.21	34.89	54.00	-19.11	AVG
5	3997.996	9.80	40.61	50.41	74.00	-23.59	peak
6	3997.996	9.80	25.45	35.25	54.00	-18.75	AVG
7	5144.289	12.62	38.58	51.20	74.00	-22.80	peak
8	5144.289	12.62	24.12	36.74	54.00	-17.26	AVG
9	7194.389	18.07	38.18	56.25	74.00	-17.75	peak
10	7194.389	18.07	23.18	41.25	54.00	-12.75	AVG
11	7635.271	18.68	38.31	56.99	74.00	-17.01	peak
12	7635.271	18.68	22.29	40.97	54.00	-13.03	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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Mode:	GFSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	Middle Channel		<input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1947.896	-1.17	44.87	43.70	74.00	-30.30	peak
2	1947.896	-1.17	30.03	28.86	54.00	-25.14	AVG
3	3424.850	7.96	42.56	50.52	74.00	-23.48	peak
4	3424.850	7.96	27.73	35.69	54.00	-18.31	AVG
5	4350.701	10.63	39.37	50.00	74.00	-24.00	peak
6	4350.701	10.63	25.33	35.96	54.00	-18.04	AVG
7	5342.685	13.26	38.40	51.66	74.00	-22.34	peak
8	5342.685	13.26	22.98	36.24	54.00	-17.76	AVG
9	7657.315	18.71	38.88	57.59	74.00	-16.41	peak
10	7657.315	18.71	23.44	42.15	54.00	-11.85	AVG
11	7899.800	19.05	38.74	57.79	74.00	-16.21	peak
12	7899.800	19.05	23.12	42.17	54.00	-11.83	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	GFSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	High Channel		<input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2212.425	0.94	40.42	41.36	74.00	-32.64	peak
2	2212.425	0.94	25.41	26.35	54.00	-27.65	AVG
3	3468.938	8.11	38.95	47.06	74.00	-26.94	peak
4	3468.938	8.11	24.57	32.68	54.00	-21.32	AVG
5	4350.701	10.63	36.43	47.06	74.00	-26.94	peak
6	4350.701	10.63	21.78	32.41	54.00	-21.59	AVG
7	4923.848	11.98	36.93	48.91	74.00	-25.09	peak
8	4923.848	11.98	21.67	33.65	54.00	-20.35	AVG
9	7282.565	18.19	36.05	54.24	74.00	-19.76	peak
10	7282.565	18.19	21.93	40.12	54.00	-13.88	AVG
11	7855.711	18.99	34.53	53.52	74.00	-20.48	peak
12	7855.711	18.99	19.28	38.27	54.00	-15.73	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuzi Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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Mode:	π/4-DQPSK	Result:	■ - passed □ - not passed
Channel:	Low Channel		
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2917.836	6.13	43.67	49.80	74.00	-24.20	peak
2	2917.836	6.13	28.43	34.56	54.00	-19.44	AVG
3	3468.938	8.11	43.09	51.20	74.00	-22.80	peak
4	3468.938	8.11	28.64	36.75	54.00	-17.25	AVG
5	4108.216	10.06	39.88	49.94	74.00	-24.06	peak
6	4108.216	10.06	24.06	34.12	54.00	-19.88	AVG
7	4791.583	11.67	38.89	50.56	74.00	-23.44	peak
8	4791.583	11.67	24.01	35.68	54.00	-18.32	AVG
9	5761.523	14.61	40.12	54.73	74.00	-19.27	peak
10	5761.523	14.61	25.25	39.86	54.00	-14.14	AVG
11	7282.565	18.19	37.81	56.00	74.00	-18.00	peak
12	7282.565	18.19	23.38	41.57	54.00	-12.43	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	π/4-DQPSK	Result:	■ - passed □ - not passed
Channel:	Middle Channel		
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2300.601	1.81	41.08	42.89	74.00	-31.11	peak
2	2300.601	1.81	25.77	27.58	54.00	-26.42	AVG
3	3601.202	8.53	41.06	49.59	74.00	-24.41	peak
4	3601.202	8.53	26.09	34.62	54.00	-19.38	AVG
5	4350.701	10.63	36.72	47.35	74.00	-26.65	peak
6	4350.701	10.63	21.51	32.14	54.00	-21.86	AVG
7	4879.760	11.88	36.49	48.37	74.00	-25.63	peak
8	4879.760	11.88	21.73	33.61	54.00	-20.39	AVG
9	5651.303	14.26	37.85	52.11	74.00	-21.89	peak
10	5651.303	14.26	23.22	37.48	54.00	-16.52	AVG
11	7370.742	18.32	35.09	53.41	74.00	-20.59	peak
12	7370.742	18.32	20.35	38.67	54.00	-15.33	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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Mode:	π/4-DQPSK	Result:	■ - passed
Channel:	High Channel		□ - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4086.172	10.01	37.08	47.09	74.00	-26.91	peak
2	4086.172	10.01	22.64	32.65	54.00	-21.35	AVG
3	4703.407	11.46	37.52	48.98	74.00	-25.02	peak
4	4703.407	11.46	22.02	33.48	54.00	-20.52	AVG
5	5144.289	12.62	38.06	50.68	74.00	-23.32	peak
6	5144.289	12.62	22.65	35.27	54.00	-18.73	AVG
7	5651.303	14.26	38.79	53.05	74.00	-20.95	peak
8	5651.303	14.26	24.21	38.47	54.00	-15.53	AVG
9	7304.609	18.22	36.33	54.55	74.00	-19.45	peak
10	7304.609	18.22	21.79	40.01	54.00	-13.99	AVG
11	7855.711	18.99	35.93	54.92	74.00	-19.08	peak
12	7855.711	18.99	20.87	39.86	54.00	-14.14	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	8DPSK	Result:	■ - passed
Channel:	Low Channel		□ - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3050.100	6.76	42.56	49.32	74.00	-24.68	peak
2	3050.100	6.76	27.50	34.26	54.00	-19.74	AVG
3	3865.731	9.38	40.01	49.39	74.00	-24.61	peak
4	3865.731	9.38	25.13	34.51	54.00	-19.49	AVG
5	4615.230	11.26	38.12	49.38	74.00	-24.62	peak
6	4615.230	11.26	23.48	34.74	54.00	-19.26	AVG
7	5629.258	14.19	40.02	54.21	74.00	-19.79	peak
8	5629.258	14.19	25.43	39.62	54.00	-14.38	AVG
9	7547.094	18.56	38.61	57.17	74.00	-16.83	peak
10	7547.094	18.56	23.59	42.15	54.00	-11.85	AVG
11	8539.078	20.71	38.77	59.48	74.00	-14.52	peak
12	8539.078	20.71	23.61	44.32	54.00	-9.68	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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Mode:	8DPSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	Middle Channel		<input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1551.102	-1.36	40.78	39.42	74.00	-34.58	peak
2	1551.102	-1.36	25.36	24.00	54.00	-30.00	AVG
3	2234.469	1.16	43.49	44.65	74.00	-29.35	peak
4	2234.469	1.16	28.49	29.65	54.00	-24.35	AVG
5	2851.703	5.76	43.37	49.13	74.00	-24.87	peak
6	2851.703	5.76	28.69	34.45	54.00	-19.55	AVG
7	3711.423	8.88	40.25	49.13	74.00	-24.87	peak
8	3711.423	8.88	25.38	34.26	54.00	-19.74	AVG
9	4659.319	11.36	38.19	49.55	74.00	-24.45	peak
10	4659.319	11.36	23.66	35.02	54.00	-18.98	AVG
11	7304.609	18.22	36.72	54.94	74.00	-19.06	peak
12	7304.609	18.22	21.65	39.87	54.00	-14.13	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	8DPSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	High Channel		<input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1727.455	-1.28	43.98	42.70	74.00	-31.30	peak
2	1727.455	-1.28	28.73	27.45	54.00	-26.55	AVG
3	1969.940	-1.16	44.67	43.51	74.00	-30.49	peak
4	1969.940	-1.16	29.80	28.64	54.00	-25.36	AVG
5	3050.100	6.76	43.89	50.65	74.00	-23.35	peak
6	3050.100	6.76	28.50	35.26	54.00	-18.74	AVG
7	4108.216	10.06	39.79	49.85	74.00	-24.15	peak
8	4108.216	10.06	24.12	34.18	54.00	-19.82	AVG
9	5100.200	12.48	38.47	50.95	74.00	-23.05	peak
10	5100.200	12.48	22.80	35.28	54.00	-18.72	AVG
11	7238.477	18.13	37.73	55.86	74.00	-18.14	peak
12	7238.477	18.13	22.00	40.13	54.00	-13.87	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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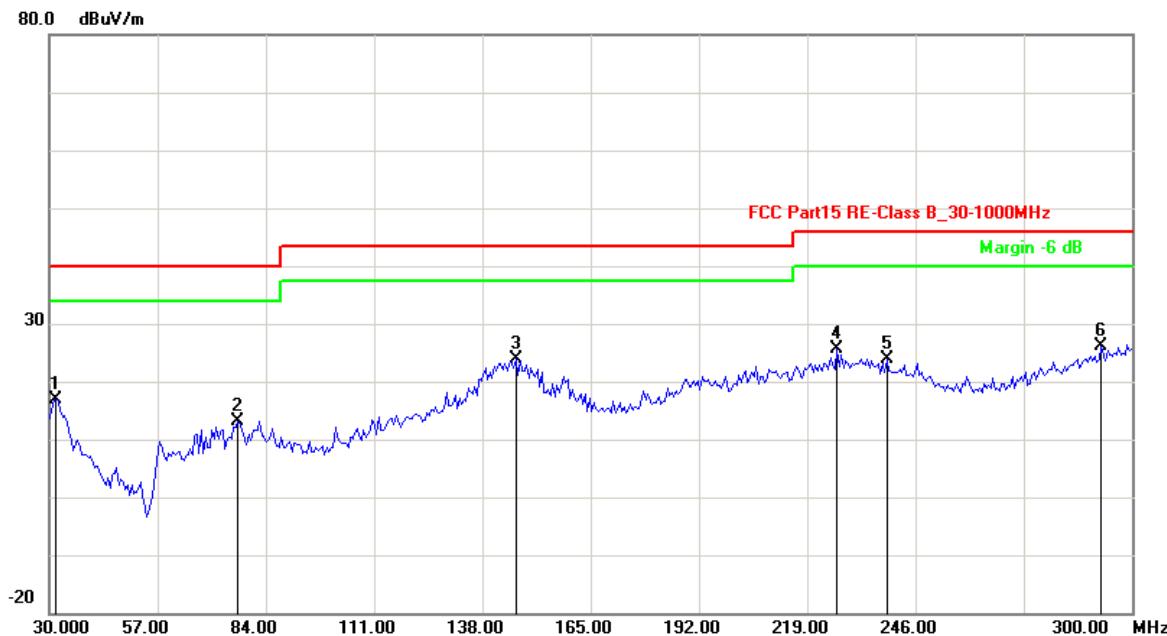
Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

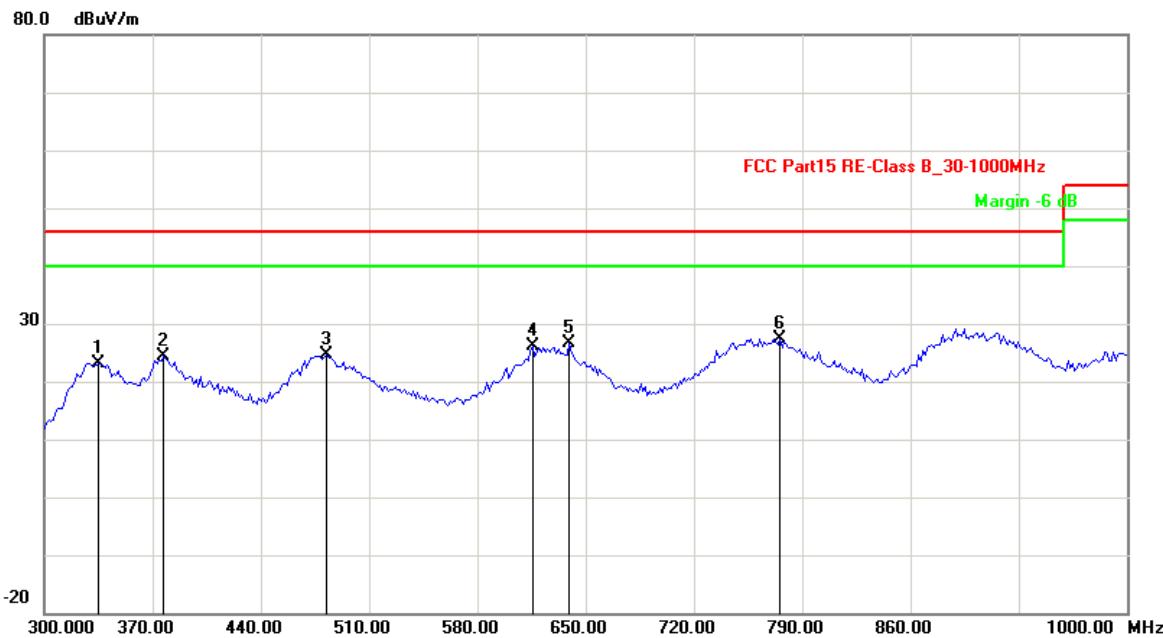
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Channel:	TX -X Position	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30MHz-1GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	31.6232	-19.92	36.91	16.99	40.00	-23.01	QP
2	77.0741	-21.43	34.68	13.25	40.00	-26.75	QP
3	146.3327	-16.99	40.96	23.97	43.50	-19.53	QP
4	226.4128	-12.37	37.89	25.52	46.00	-20.48	QP
5	238.8577	-13.04	36.92	23.88	46.00	-22.12	QP
6	292.4249	-6.70	32.90	26.20	46.00	-19.80	QP

Remark: Other frequency mini margin all >10 dB of Limit



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	335.0701	-14.31	37.56	23.25	46.00	-22.75	QP
2	377.1543	-14.72	39.10	24.38	46.00	-21.62	QP
3	482.3647	-9.75	34.49	24.74	46.00	-21.26	QP
4	615.6313	-7.92	33.93	26.01	46.00	-19.99	QP
5	639.4790	-7.60	34.14	26.54	46.00	-19.46	QP
6	775.5511	-5.85	33.24	27.39	46.00	-18.61	QP

Remark: Other frequency mini margin all >10 dB of Limit

Mode: GFSK	Result: <input checked="" type="checkbox"/> - passed
Channel: Low Channel	
Test point: Vertical	
Frequency range: 1GHz-26.5GHz	

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1947.896	-1.17	48.70	47.53	74.00	-26.47	peak
2	1947.896	-1.17	33.53	32.36	54.00	-21.64	AVG
3	3050.100	6.76	42.84	49.60	74.00	-24.40	peak
4	3050.100	6.76	27.76	34.52	54.00	-19.48	AVG
5	3777.555	9.10	42.60	51.70	74.00	-22.30	peak
6	3777.555	9.10	27.79	36.89	54.00	-17.11	AVG
7	4923.848	11.98	38.18	50.16	74.00	-23.84	peak
8	4923.848	11.98	23.16	35.14	54.00	-18.86	AVG
9	5695.391	14.40	40.25	54.65	74.00	-19.35	peak
10	5695.391	14.40	25.31	39.71	54.00	-14.29	AVG
11	8142.285	19.59	40.05	59.64	74.00	-14.36	peak
12	8142.285	19.59	25.09	44.68	54.00	-9.32	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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Mode:	GFSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	Middle Channel		<input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3270.541	7.47	42.38	49.85	74.00	-24.15	peak
2	3270.541	7.47	26.78	34.25	54.00	-19.75	AVG
3	3711.423	8.88	41.39	50.27	74.00	-23.73	peak
4	3711.423	8.88	26.81	35.69	54.00	-18.31	AVG
5	4196.393	10.27	39.80	50.07	74.00	-23.93	peak
6	4196.393	10.27	24.52	34.79	54.00	-19.21	AVG
7	5122.244	12.55	40.03	52.58	74.00	-21.42	peak
8	5122.244	12.55	24.74	37.29	54.00	-16.71	AVG
9	5629.259	14.19	39.16	53.35	74.00	-20.65	peak
10	5629.259	14.19	24.27	38.46	54.00	-15.54	AVG
11	7921.844	19.08	38.74	57.82	74.00	-16.18	peak
12	7921.844	19.08	23.57	42.65	54.00	-11.35	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	GFSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	High Channel		<input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3226.453	7.33	40.72	48.05	74.00	-25.95	peak
2	3226.453	7.33	26.29	33.62	54.00	-20.38	AVG
3	3557.114	8.39	40.36	48.75	74.00	-25.25	peak
4	3557.114	8.39	24.75	33.14	54.00	-20.86	AVG
5	4284.569	10.48	38.16	48.64	74.00	-25.36	peak
6	4284.569	10.48	22.80	33.28	54.00	-20.72	AVG
7	5452.906	13.62	36.77	50.39	74.00	-23.61	peak
8	5452.906	13.62	22.02	35.64	54.00	-18.36	AVG
9	7216.433	18.10	36.67	54.77	74.00	-19.23	peak
10	7216.433	18.10	21.65	39.75	54.00	-14.25	AVG
11	7613.226	18.65	36.93	55.58	74.00	-18.42	peak
12	7613.226	18.65	21.48	40.13	54.00	-13.87	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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Mode:	π/4-DQPSK	Result:	■ - passed
Channel:	Low Channel		□ - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1595.190	-1.34	43.28	41.94	74.00	-32.06	peak
2	1595.190	-1.34	27.66	26.32	54.00	-27.68	AVG
3	2080.160	-0.36	42.48	42.12	74.00	-31.88	peak
4	2080.160	-0.36	27.82	27.46	54.00	-26.54	AVG
5	3006.012	6.62	43.53	50.15	74.00	-23.85	peak
6	3006.012	6.62	28.64	35.26	54.00	-18.74	AVG
7	3733.467	8.95	40.76	49.71	74.00	-24.29	peak
8	3733.467	8.95	25.90	34.85	54.00	-19.15	AVG
9	4989.980	12.14	38.31	50.45	74.00	-23.55	peak
10	4989.980	12.14	23.47	35.61	54.00	-18.39	AVG
11	7370.742	18.32	38.35	56.67	74.00	-17.33	peak
12	7370.742	18.32	22.96	41.28	54.00	-12.72	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	π/4-DQPSK	Result:	■ - passed
Channel:	Middle Channel		□ - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1595.190	-1.34	42.00	40.66	74.00	-33.34	peak
2	1595.190	-1.34	26.68	25.34	54.00	-28.66	AVG
3	2168.337	0.51	41.69	42.20	74.00	-31.80	peak
4	2168.337	0.51	26.64	27.15	54.00	-26.85	AVG
5	2961.924	6.38	42.32	48.70	74.00	-25.30	peak
6	2961.924	6.38	27.07	33.45	54.00	-20.55	AVG
7	3557.114	8.39	40.42	48.81	74.00	-25.19	peak
8	3557.114	8.39	24.81	33.20	54.00	-20.80	AVG
9	5100.200	12.48	37.39	49.87	74.00	-24.13	peak
10	5100.200	12.48	22.10	34.58	54.00	-19.42	AVG
11	7216.433	18.10	36.79	54.89	74.00	-19.11	peak
12	7216.433	18.10	21.58	39.68	54.00	-14.32	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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Mode:	π/4-DQPSK	Result:	■ - passed □ - not passed
Channel:	High Channel		
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1837.675	-1.22	40.25	39.03	74.00	-34.97	peak
2	1837.675	-1.22	25.80	24.58	54.00	-29.42	AVG
3	3270.541	7.47	40.22	47.69	74.00	-26.31	peak
4	3270.541	7.47	25.17	32.64	54.00	-21.36	AVG
5	4064.128	9.96	38.09	48.05	74.00	-25.95	peak
6	4064.128	9.96	23.46	33.42	54.00	-20.58	AVG
7	5122.244	12.55	37.40	49.95	74.00	-24.05	peak
8	5122.244	12.55	22.02	34.57	54.00	-19.43	AVG
9	5893.788	15.04	38.63	53.67	74.00	-20.33	peak
10	5893.788	15.04	23.67	38.71	54.00	-15.29	AVG
11	7569.138	18.59	35.59	54.18	74.00	-19.82	peak
12	7569.138	18.59	21.06	39.65	54.00	-14.35	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	8DPSK	Result:	■ - passed □ - not passed
Channel:	Low Channel		
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2895.792	6.01	43.46	49.47	74.00	-24.53	peak
2	2895.792	6.01	28.14	34.15	54.00	-19.85	AVG
3	3821.643	9.24	40.44	49.68	74.00	-24.32	peak
4	3821.643	9.24	25.61	34.85	54.00	-19.15	AVG
5	4460.922	10.89	38.87	49.76	74.00	-24.24	peak
6	4460.922	10.89	23.73	34.62	54.00	-19.38	AVG
7	5452.906	13.62	40.28	53.90	74.00	-20.10	peak
8	5452.906	13.62	24.54	38.16	54.00	-15.84	AVG
9	7525.050	18.53	38.66	57.19	74.00	-16.81	peak
10	7525.050	18.53	24.04	42.57	54.00	-11.43	AVG
11	8693.387	21.15	38.32	59.47	74.00	-14.53	peak
12	8693.387	21.15	23.57	44.72	54.00	-9.28	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuji Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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Mode:	8DPSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	Middle Channel		<input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2609.218	4.39	43.29	47.68	74.00	-26.32	peak
2	2609.218	4.39	28.06	32.45	54.00	-21.55	AVG
3	3138.277	7.04	40.32	47.36	74.00	-26.64	peak
4	3138.277	7.04	25.57	32.61	54.00	-21.39	AVG
5	4174.349	10.22	37.38	47.60	74.00	-26.40	peak
6	4174.349	10.22	22.42	32.64	54.00	-21.36	AVG
7	4923.848	11.98	36.67	48.65	74.00	-25.35	peak
8	4923.848	11.98	21.98	33.96	54.00	-20.04	AVG
9	6158.317	15.76	37.75	53.51	74.00	-20.49	peak
10	6158.317	15.76	23.39	39.15	54.00	-14.85	AVG
11	7370.742	18.32	35.80	54.12	74.00	-19.88	peak
12	7370.742	18.32	21.42	39.74	54.00	-14.26	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	8DPSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	High Channel		<input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2807.615	5.51	44.69	50.20	74.00	-23.80	peak
2	2807.615	5.51	29.70	35.21	54.00	-18.79	AVG
3	3402.806	7.89	42.04	49.93	74.00	-24.07	peak
4	3402.806	7.89	26.26	34.15	54.00	-19.85	AVG
5	3733.467	8.95	41.89	50.84	74.00	-23.16	peak
6	3733.467	8.95	26.67	35.62	54.00	-18.38	AVG
7	4527.054	11.05	38.47	49.52	74.00	-24.48	peak
8	4527.054	11.05	23.13	34.18	54.00	-19.82	AVG
9	7018.036	17.83	38.05	55.88	74.00	-18.12	peak
10	7018.036	17.83	22.30	40.13	54.00	-13.87	AVG
11	7943.888	19.11	38.39	57.50	74.00	-16.50	peak
12	7943.888	19.11	23.47	42.58	54.00	-11.42	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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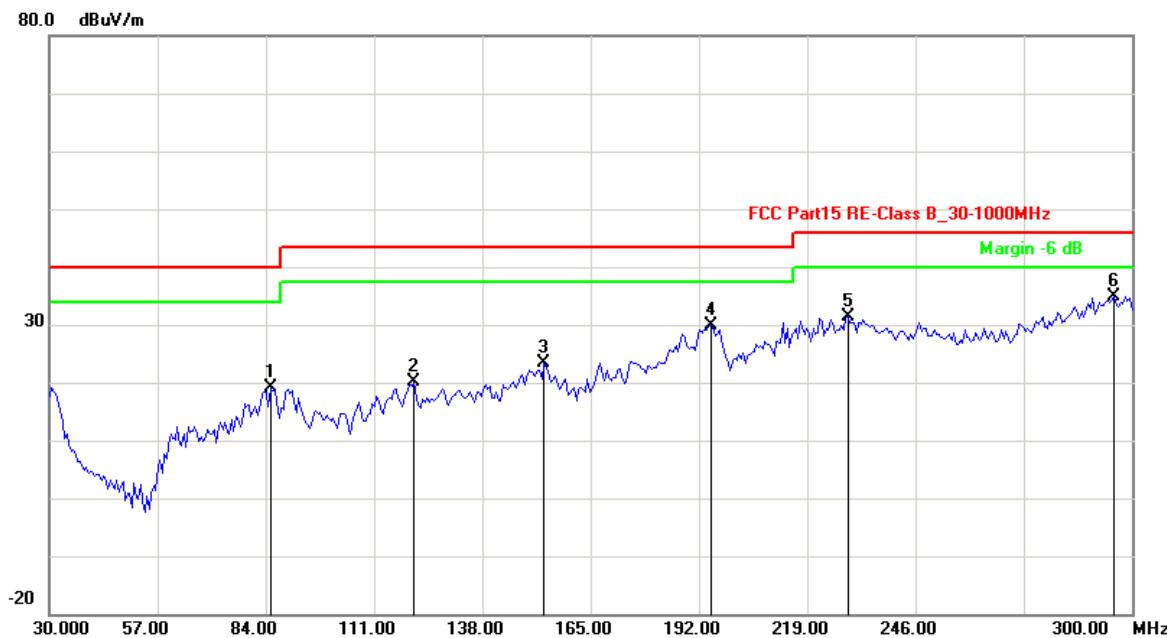
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E-mail: cts@cts-lab.com.cn

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EUT	Wifi+BT combo card
Antenna Type	Chip antenna
Operating Condition	DC 3.3V
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	02~23 September 2013
Operator	Duke
MODEL NO	WLU6300B(T-RoHS)

Channel:	TX -X Position	Result:	<input checked="" type="checkbox"/> - passed
Test point:	Horizontal		<input type="checkbox"/> - not passed
Frequency range:	30MHz-1GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	85.1904	-22.51	41.70	19.19	40.00	-20.81	QP
2	120.9018	-18.03	38.15	20.12	43.50	-23.38	QP
3	153.3667	-17.88	41.26	23.38	43.50	-20.12	QP
4	195.0301	-12.34	42.10	29.76	43.50	-13.74	QP
5	229.1182	-12.35	43.77	31.42	46.00	-14.58	QP
6	295.6713	-6.21	41.01	34.80	46.00	-11.20	QP

Remark: Other frequency mini margin all >10 dB of Limit

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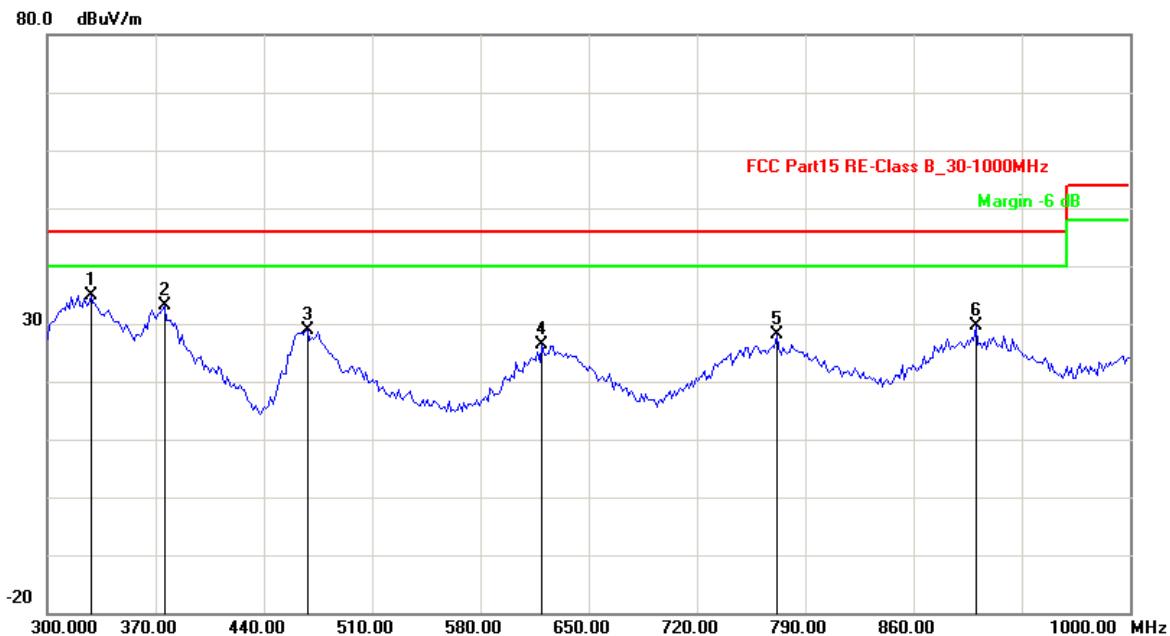
Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

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E-mail: cts@cts-lab.com.cn

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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	328.0561	-16.02	50.97	34.95	46.00	-11.05	QP
2	375.7515	-14.65	47.75	33.10	46.00	-12.90	QP
3	468.3367	-11.81	40.61	28.80	46.00	-17.20	QP
4	619.8397	-7.10	33.54	26.44	46.00	-19.56	QP
5	771.3427	-5.75	33.98	28.23	46.00	-17.77	QP
6	900.4008	-3.92	33.64	29.72	46.00	-16.28	QP

Remark: Other frequency mini margin all >10 dB of Limit

Mode: GFSK	Result: <input checked="" type="checkbox"/> - passed
Channel: Low Channel	
Test point: Horizontal	
Frequency range: 1GHz-26.5GHz	

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1176.353	-4.21	47.41	43.20	74.00	-30.80	peak
2	1176.353	-4.21	32.84	28.63	54.00	-25.37	AVG
3	5474.950	13.69	38.87	52.56	74.00	-21.44	peak
4	5474.950	13.69	23.75	37.44	54.00	-16.56	AVG
5	7458.918	18.44	38.25	56.69	74.00	-17.31	peak
6	7458.918	18.44	22.92	41.36	54.00	-12.64	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	GFSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	Middle Channel		<input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1595.190	-1.34	40.87	39.53	74.00	-34.47	peak
2	1595.190	-1.34	25.90	24.56	54.00	-29.44	AVG
3	3468.938	8.11	40.95	49.06	74.00	-24.94	peak
4	3468.938	8.11	26.56	34.67	54.00	-19.33	AVG
5	6092.184	15.60	37.89	53.49	74.00	-20.51	peak
6	6092.184	15.60	22.53	38.13	54.00	-15.87	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	GFSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	High Channel		<input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2719.439	5.01	42.79	47.80	74.00	-26.20	peak
2	2719.439	5.01	27.64	32.65	54.00	-21.35	AVG
3	4174.349	10.22	39.46	49.68	74.00	-24.32	peak
4	4174.349	10.22	24.07	34.29	54.00	-19.71	AVG
5	7503.006	18.50	37.71	56.21	74.00	-17.79	peak
6	7503.006	18.50	22.53	41.03	54.00	-12.97	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	π/4-DQPSK	Result:	■ - passed
Channel:	Low Channel		□ - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1352.705	-2.67	45.43	42.76	74.00	-31.24	peak
2	1352.705	-2.67	30.15	27.48	54.00	-26.52	AVG
3	4901.804	11.93	38.11	50.04	74.00	-23.96	peak
4	4901.804	11.93	23.23	35.16	54.00	-18.84	AVG
5	7326.653	18.25	37.68	55.93	74.00	-18.07	peak
6	7326.653	18.25	22.60	40.85	54.00	-13.15	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	π/4-DQPSK	Result:	■ - passed
Channel:	Middle Channel		□ - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2146.293	0.29	42.23	42.52	74.00	-31.48	peak
2	2146.293	0.29	27.07	27.36	54.00	-26.64	AVG
3	5474.950	13.69	39.40	53.09	74.00	-20.91	peak
4	5474.950	13.69	25.05	38.74	54.00	-15.26	AVG
5	7767.535	18.87	37.41	56.28	74.00	-17.72	peak
6	7767.535	18.87	22.82	41.69	54.00	-12.31	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	π/4-DQPSK	Result:	■ - passed
Channel:	High Channel		□ - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2631.262	4.51	42.87	47.38	74.00	-26.62	peak
2	2631.262	4.51	28.13	32.64	54.00	-21.36	AVG
3	5651.303	14.26	37.81	52.07	74.00	-21.93	peak
4	5651.303	14.26	22.71	36.97	54.00	-17.03	AVG
5	8032.064	19.28	36.44	55.72	74.00	-18.28	peak
6	8032.064	19.28	20.90	40.18	54.00	-13.82	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	8DPSK	Result:	■ - passed
Channel:	Low Channel		□ - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3446.894	8.03	42.10	50.13	74.00	-23.87	peak
2	3446.894	8.03	27.21	35.24	54.00	-18.76	AVG
3	5761.523	14.61	37.85	52.46	74.00	-21.54	peak
4	5761.523	14.61	23.34	37.95	54.00	-16.05	AVG
5	8340.681	20.15	37.16	57.31	74.00	-16.69	peak
6	8340.681	20.15	22.48	42.63	54.00	-11.37	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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Fax: +86-20-38780406

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E-mail: cts@cts-lab.com.cn

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Mode:	8DPSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	Middle Channel		<input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3601.202	8.53	41.36	49.89	74.00	-24.11	peak
2	3601.202	8.53	26.05	34.58	54.00	-19.42	AVG
3	5519.038	13.83	39.20	53.03	74.00	-20.97	peak
4	5519.038	13.83	24.33	38.16	54.00	-15.84	AVG
5	8891.784	21.70	38.07	59.77	74.00	-14.23	peak
6	8891.784	21.70	22.87	44.57	54.00	-9.43	AVG

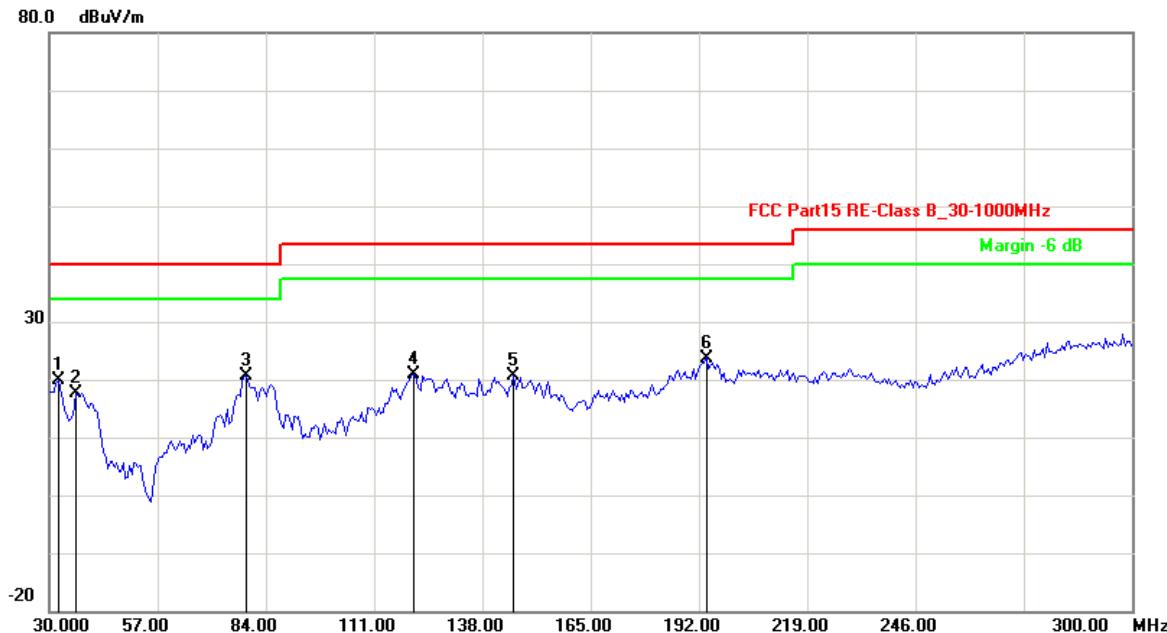
Remark: Other frequency mini margin all >10 dB of Limit

Mode:	8DPSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	High Channel		<input type="checkbox"/> - not passed
Test point:	Horizontal		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2344.689	2.24	43.39	45.63	74.00	-28.37	peak
2	2344.689	2.24	28.41	30.65	54.00	-23.35	AVG
3	5408.818	13.48	38.28	51.76	74.00	-22.24	peak
4	5408.818	13.48	23.49	36.97	54.00	-17.03	AVG
5	8120.240	19.53	38.69	58.22	74.00	-15.78	peak
6	8120.240	19.53	23.99	43.52	54.00	-10.48	AVG

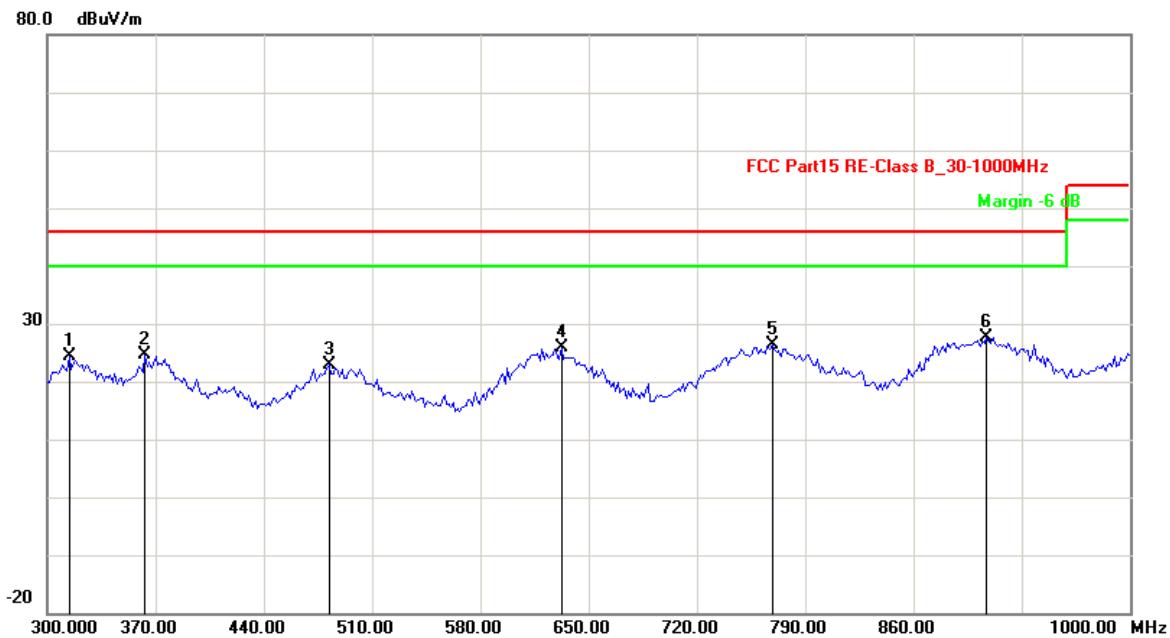
Remark: Other frequency mini margin all >10 dB of Limit

Channel:	TX -X Position	Result:	■ - passed
Test point:	Vertical		□ - not passed
Frequency range:	30MHz-1GHz		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	32.1643	-20.42	40.39	19.97	40.00	-20.03	QP
2	36.4930	-23.89	41.56	17.67	40.00	-22.33	QP
3	79.2385	-21.42	42.03	20.61	40.00	-19.39	QP
4	120.9018	-18.03	38.86	20.83	43.50	-22.67	QP
5	145.7916	-16.94	37.62	20.68	43.50	-22.82	QP
6	193.9479	-12.27	36.02	23.75	43.50	-19.75	QP

Remark: Other frequency mini margin all >10 dB of Limit



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	314.0281	-18.87	43.27	24.40	46.00	-21.60	QP
2	363.1263	-14.04	38.64	24.60	46.00	-21.40	QP
3	482.3647	-9.75	32.64	22.89	46.00	-23.11	QP
4	632.4649	-7.41	33.17	25.76	46.00	-20.24	QP
5	768.5371	-5.69	31.96	26.27	46.00	-19.73	QP
6	907.4148	-4.14	31.80	27.66	46.00	-18.34	QP

Remark: Other frequency mini margin all >10 dB of Limit

Mode: GFSK	Result: <input checked="" type="checkbox"/> - passed
Channel: Low Channel	
Test point: Vertical	
Frequency range: 1GHz-26.5GHz	

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1176.353	-4.21	56.01	51.80	74.00	-22.20	peak
2	1176.353	-4.21	40.44	36.23	54.00	-17.77	AVG
3	5651.303	14.26	39.27	53.53	74.00	-20.47	peak
4	5651.303	14.26	24.38	38.64	54.00	-15.36	AVG
5	7591.182	18.62	37.88	56.50	74.00	-17.50	peak
6	7591.182	18.62	22.67	41.29	54.00	-12.71	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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Mode:	GFSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	Middle Channel		<input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1771.543	-1.26	41.64	40.38	74.00	-33.62	peak
2	1771.543	-1.26	26.62	25.36	54.00	-28.64	AVG
3	4945.892	12.03	37.31	49.34	74.00	-24.66	peak
4	4945.892	12.03	22.58	34.61	54.00	-19.39	AVG
5	7436.874	18.41	36.74	55.15	74.00	-18.85	peak
6	7436.874	18.41	21.82	40.23	54.00	-13.77	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	GFSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	High Channel		<input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1991.984	-1.15	45.78	44.63	74.00	-29.37	peak
2	1991.984	-1.15	31.30	30.15	54.00	-23.85	AVG
3	5981.964	15.32	40.66	55.98	74.00	-18.02	peak
4	5981.964	15.32	25.42	40.74	54.00	-13.26	AVG
5	7965.932	19.14	36.17	55.31	74.00	-18.69	peak
6	7965.932	19.14	21.17	40.31	54.00	-13.69	AVG
12	7613.226	18.65	21.48	40.13	54.00	-13.87	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	π/4-DQPSK	Result:	■ - passed □ - not passed
Channel:	Low Channel		
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1176.353	-4.21	55.65	51.44	74.00	-22.56	peak
2	1176.353	-4.21	40.45	36.24	54.00	-17.76	AVG
3	4482.966	10.94	39.93	50.87	74.00	-23.13	peak
4	4482.966	10.94	24.19	35.13	54.00	-18.87	AVG
5	7480.962	18.47	38.34	56.81	74.00	-17.19	peak
6	7480.962	18.47	23.40	41.87	54.00	-12.13	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	π/4-DQPSK	Result:	■ - passed □ - not passed
Channel:	Middle Channel		
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1991.984	-1.15	45.46	44.31	74.00	-29.69	peak
2	1991.984	-1.15	31.26	30.11	54.00	-23.89	AVG
3	5320.641	13.19	36.43	49.62	74.00	-24.38	peak
4	5320.641	13.19	21.39	34.58	54.00	-19.42	AVG
5	7172.345	18.04	36.87	54.91	74.00	-19.09	peak
6	7172.345	18.04	22.08	40.12	54.00	-13.88	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	π/4-DQPSK	Result:	■ - passed □ - not passed
Channel:	High Channel		
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1176.353	-4.21	49.60	45.39	74.00	-28.61	peak
2	1176.353	-4.21	34.50	30.29	54.00	-23.71	AVG
3	5210.421	12.84	37.20	50.04	74.00	-23.96	peak
4	5210.421	12.84	23.00	35.84	54.00	-18.16	AVG
5	8472.946	20.52	36.65	57.17	74.00	-16.83	peak
6	8472.946	20.52	22.06	42.58	54.00	-11.42	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	8DPSK	Result:	■ - passed □ - not passed
Channel:	Low Channel		
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1396.794	-2.28	50.50	48.22	74.00	-25.78	peak
2	1396.794	-2.28	35.89	33.61	54.00	-20.39	AVG
3	4615.230	11.26	39.03	50.29	74.00	-23.71	peak
4	4615.230	11.26	24.42	35.68	54.00	-18.32	AVG
5	7503.006	18.50	37.27	55.77	74.00	-18.23	peak
6	7503.006	18.50	21.73	40.23	54.00	-13.77	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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CENTRE OF TESTING SERVICE CO., LTD.

A101, No.65, Zhuzi Highway, Tianhe District, Guangzhou, China

Tel: +86-20-85543113 (32 lines)

Fax: +86-20-38780406

Complaint line: +86-20-85533471

E-mail: cts@cts-lab.com.cn

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Mode:	8DPSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	Middle Channel		<input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1991.984	-1.15	45.87	44.72	74.00	-29.28	peak
2	1991.984	-1.15	31.43	30.28	54.00	-23.72	AVG
3	5717.435	14.47	38.55	53.02	74.00	-20.98	peak
4	5717.435	14.47	24.17	38.64	54.00	-15.36	AVG
5	7503.006	18.50	38.37	56.87	74.00	-17.13	peak
6	7503.006	18.50	22.86	41.36	54.00	-12.64	AVG

Remark: Other frequency mini margin all >10 dB of Limit

Mode:	8DPSK	Result:	<input checked="" type="checkbox"/> - passed
Channel:	High Channel		<input type="checkbox"/> - not passed
Test point:	Vertical		
Frequency range:	1GHz-26.5GHz		

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1396.794	-2.28	51.09	48.81	74.00	-25.19	peak
2	1396.794	-2.28	35.95	33.67	54.00	-20.33	AVG
3	5541.082	13.90	39.64	53.54	74.00	-20.46	peak
4	5541.082	13.90	24.72	38.62	54.00	-15.38	AVG
5	7657.315	18.71	37.70	56.41	74.00	-17.59	peak
6	7657.315	18.71	22.96	41.67	54.00	-12.33	AVG

Remark: Other frequency mini margin all >10 dB of Limit

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15.0 Antenna Requirements

15.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

15.2 Antenna Construction and Directional Gain

Antenna 1:

Antenna type: PCB Antenna

Antenna Gain: 2 dBi

Antenna 2:

Antenna type: Chip antenna

Antenna Gain: 2 dBi

16. Deviation to test specifications

The following identical model(s):

N/A

Belong to the tested device:

Product description: **Wifi+BT combo card**
Model name: **WLU6300B(T-RoHS)**