

## CENTRE OF TESTING SERVICE INTERNATIONAL

**OPERATE ACCORDING TO ISO/IEC 17025** 

# FCC ID TEST REPORT

TEST REPORT NUMBER: CGZ3140319-00237-EF



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, 2013
Report Reference No	
Date of issue	
	CENTRE 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 $\square$
	Other standard testing method $\square$
Applicant's name	. Rigado, LLC
Address	2601 25 <sup>th</sup> St SE, Suite 200, Salem, OR 97302 USA
Test specification	
Standard	47 CFR PART 15 OCT, 2013
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	: BMD-200
Trade Mark	Rigado
Manufacturer	Rigado, LLC
Model/Type reference	BMD-200
Ratings	DC 3.3V
Operating Frequency	. 2402.0MHz ~2480.0MHz
Result	Positive

No be

Supervised by:

Approved by:

Kate zhang / Fileadministrators

Compiled by:

Duke yang / Technique principal

Vincent yao / Manager

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## FCCID-TEST REPORT

Test Report No. : CGZ3140319-00237-EF 

21 March 2014

Date of issue

Type / Model	BMD-200
EUT	BMD-200
Applicant	Rigado, LLC
Address	2601 25 <sup>th</sup> St SE, Suite 200, Salem, OR 97302 USA
Telephone	+1-971-208-9857
Fax	+1-971-208-9869
Contact	Cam Nichols
Manufacturer	Rigado, LLC
Address	2601 25 <sup>th</sup> St SE, Suite 200, Salem, OR 97302 USA
Telephone	+1-971-208-9857
Fax	+1-971-208-9869
Contact	Cam Nichols
Test report holder	Rigado, LLC
Address	2601 25 <sup>th</sup> St SE, Suite 200, Salem, OR 97302 USA
Telephone	+1-971-208-9857
Fax	+1-971-208-9869
Contact	Cam Nichols

## 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.

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8.4. TEST RESULTS	
DEVIATION TO TEST SPECIFICATIONS	2

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## 1.TEST STANDARDS

The tests were performed according to following standards:

- 47 CFR PART 15 OCT, 2013
- ANSI C63.4-2009

#### 2.SUMMARY

#### 2.1 GENERAL REMARKS

Date of receipt of test sample	19 March 2014
Testing commenced on	19~21 March 2014
Testing concluded on	21 March 2014

#### 2.2 FINAL ASSESSMENT

T!					
The FCC requirement	s pertaining to t	he technical	standards and	tested opera	ation modes are

- fulfilled.
- $\Box$  **not** fulfilled.

The equipment under test

- fulfils the FCC requirements cited on page 1.
- □ does not fulfil the FCC requirements cited on page 1.

## 3.EQUIPMENT UNDER TEST

## 3.1 Power supply system utilised

Power supply voltage : ■ DC 3.3V by jig

## 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 (2402MHz) , TX-X Position Middle (2440MHz ),

TX-X Position High (2480MHz)

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.

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## 3.4 EUT configuration

## 3.4.1. Description of configuration (EUT)

Description	:	BMD-200
Model Number	:	BMD-200
Operation frequency	:	2402~ 2480 MHz ISM Band
Radio Technology	:	V4.0
Modulation Technology	:	GFSK modulation
Antenna	:	Chip antenna, met requirement of FCC 15.203

#### 3.4.2. Tested Supporting System Details

N/A

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## 4.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)
	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)
	1GHz~26.5GHz	±3.54dB	(1)

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

## 5. 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	N/A	
Radiated Emission Test	FCC Part 15 C: 15.249 FCC Part 15 : 109 ANSI C63.4-2009	PASSED	
Band Edge Compliance Test	FCC Part 15 C: 15.249 ANSI C63.4-2009	PASSED	
N/A is an abbreviation for Not Applicable.			

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## 6. Power Line Conducted Emission Test

#### **6.1.Test Equipment**

Conduc	Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	EMI Test Receiver	ROHDE & SCHWARZ	ESHS10	842884/012	2013/11	
2	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/025	2013/11	
3	Artificial Mains	ROHDE & SCHWARZ	ESH3-Z5	832479/026	2013/11	
4	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100301	2013/11	
5	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2013/11	

## 6.2. Block Diagram of Test Setup

EUT

(EUT: BMD-200)

#### 6.3. Power Line Conducted Emission Test Limits

Standard: RSS-Gen: 7.2.4, FCC Part 15: 15.207, ANSI C63.4-2009

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

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

#### **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

N/A (The EUT power supply by battery, Not applicable.)

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<sup>2.</sup> The lower limit shall apply at the transition frequencies.





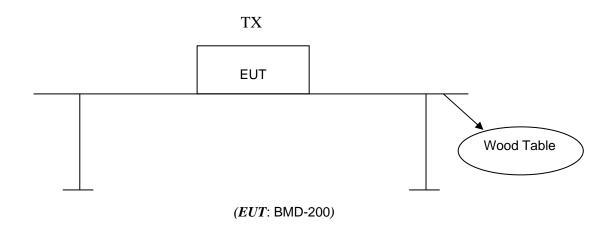
## 7. Radiated disturbance (electric field)

## 7.1.Test Equipment

Radia	Radiated disturbance (electric field)									
Item	Test Equipment	Manufacturer	Serial No.	Last Cal.						
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100868	2013/11					
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	2013/11					

## 7.2.Block Diagram of Test Setup

## 7.2.1 Block Diagram of connection between EUT and simulators



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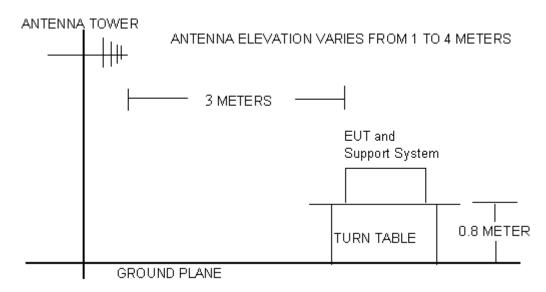
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#### 7.2.2 Anechoic Chamber Setup Diagram



#### 7.3. Radiated Emission Limit:

Standard: FCC 15.249, FCC 15.209.

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (µV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

FRE	QUEN	CY	DISTANCE	FIELD STREN	GTHS LIMIT	
	MHz		Meters	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	
٨١	Above 1000		3	Other:74.0 dB(μV)/m (Peak)		
At	ove II	000	3	54.0 dB(μV)/m (Average)		

Remark:

- (1) Emission level  $dB\mu V = 20 log Emission level <math>\mu V/m$
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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#### 7.4.Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009on radiated emission Test.

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

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 2MHz RBW above 1GHz,

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

#### 7.5. Radiated Emission Test Results

#### PASSED.

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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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
Rem	ark: The test re	sult readi	ng value is to l	ow, margin a	II > 10dB of t	he limit.	

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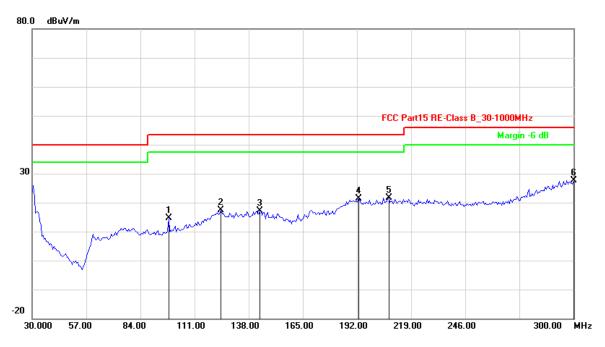




Channel:	TX –X Position Mode Low 2402MHz	Result:	■ - passed
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	BMD-200
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	19~21 March 2014
Operator	Duke
MODEL NO	BMD-200

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	2.81	82.90	85.71	114.00	-28.29	Peak
2	2402.00	2.81	80.72	83.52	94.00	-10.47	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	98.1764	-23.19	37.82	14.63	43.50	-28.87	QP
2	124.1483	-17.69	34.98	17.29	43.50	-26.21	QP
3	143.6273	-16.73	33.98	17.25	43.50	-26.25	QP
4	192.8657	-12.20	33.70	21.50	43.50	-22.00	QP
5	208.0160	-12.18	33.91	21.73	43.50	-21.77	QP
6	300.0000	-5.57	33.27	27.70	46.00	-18.30	QP
Remark	: Other frequen	ncy mini ma	rgin all >10 dB	of Limit			

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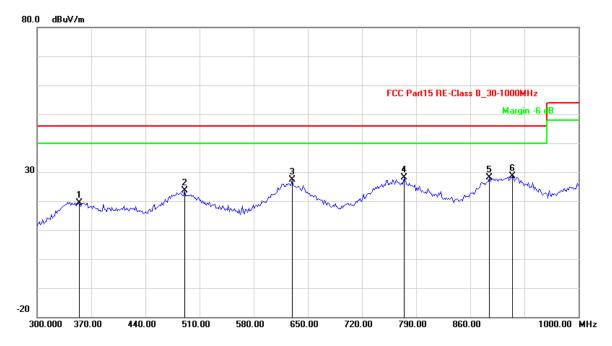
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.		
1	354.7094	-13.68	33.14	19.46	46.00	-26.54	QP		
2	490.7816	-9.95	33.48	23.53	46.00	-22.47	QP		
3	629.6593	-7.33	34.63	27.30	46.00	-18.70	QP		
4	774.1483	-5.82	33.86	28.04	46.00	-17.96	QP		
5	884.9699	-4.69	32.81	28.12	46.00	-17.88	QP		
6	914.4289	-4.35	32.93	28.58	46.00	-17.42	QP		
Remark:	Remark: Other frequency mini margin all >10 dB of Limit								

## Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1639.279	-1.32	41.75	40.43	74.00	-33.57	peak
2	1639.279	-1.32	26.68	25.36	54.00	-28.64	AVG
3	2829.659	5.64	43.22	48.86	74.00	-25.14	peak
4	2829.659	5.64	28.05	33.69	54.00	-20.31	AVG
5	4064.128	9.96	39.70	49.66	74.00	-24.34	peak
6	4064.128	9.96	24.19	34.15	54.00	-19.85	AVG
7	4813.627	11.72	38.89	50.61	74.00	-23.39	peak
8	4813.627	11.72	24.53	36.25	54.00	-17.75	AVG
9	5871.743	14.97	40.20	55.17	74.00	-18.83	peak
10	5871.743	14.97	25.87	40.84	54.00	-13.16	AVG
11	7547.094	18.56	38.37	56.93	74.00	-17.07	peak
12	7547.094	18.56	22.66	41.22	54.00	-12.78	AVG
Remark:	Other frequen	icy mini ma	rgin all >10 dB	of Limit			

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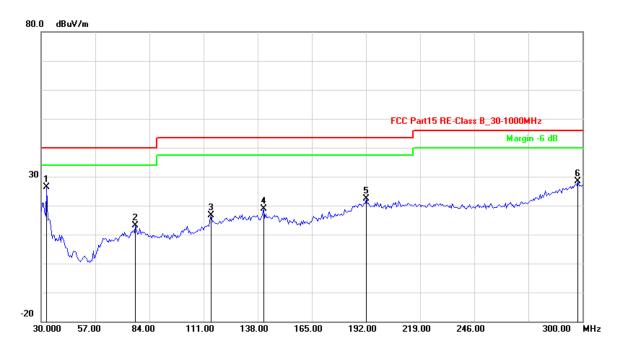
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2402.00	2.81	80.89	83.70	114.00	-30.30	Peak
2	2402.00	2.81	78.63	81.44	94.00	-12.56	AVG



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1	32.7054	-20.91	47.36	26.45	40.00	-13.55	QP
2	77.0741	-21.43	34.61	13.18	40.00	-26.82	QP
3	114.9499	-19.35	35.92	16.57	43.50	-26.93	QP
4	140.9218	-16.47	35.26	18.79	43.50	-24.71	QP
5	192.3246	-12.16	34.49	22.33	43.50	-21.17	QP
6	297.8357	-5.89	34.16	28.27	46.00	-17.73	QP
Remark:	Other frequen	cy mini ma	rgin all >10 dB	of Limit			·

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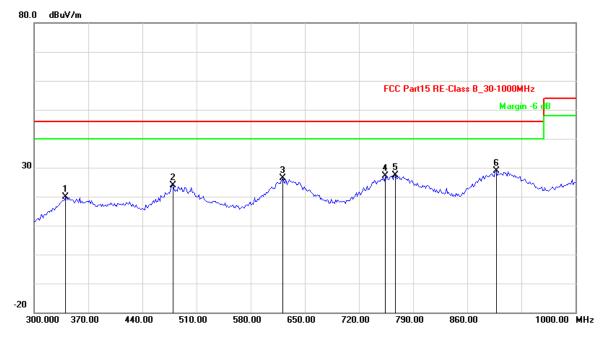
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	340.6814	-13.14	33.00	19.86	46.00	-26.14	QP
2	479.5591	-9.77	33.61	23.84	46.00	-22.16	QP
3	621.2425	-7.10	33.50	26.40	46.00	-19.60	QP
4	754.5090	-5.95	33.00	27.05	46.00	-18.95	QP
5	767.1343	-5.65	32.94	27.29	46.00	-18.71	QP
6	897.5952	-4.04	33.02	28.98	46.00	-17.02	QP
Remark:	Other frequen	cy mini ma	rgin all >10 dB	of Limit			

## Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2895.792	6.01	43.56	49.57	74.00	-24.43	peak
2	2895.792	6.01	28.57	34.58	54.00	-19.42	AVG
3	3799.599	9.17	40.28	49.45	74.00	-24.55	peak
4	3799.599	9.17	25.52	34.69	54.00	-19.31	AVG
5	5144.289	12.62	37.97	50.59	74.00	-23.41	peak
6	5144.289	12.62	22.59	35.21	54.00	-18.79	AVG
7	5871.743	14.97	39.81	54.78	74.00	-19.22	peak
8	5871.743	14.97	25.74	40.71	54.00	-13.29	AVG
9	7833.667	18.96	37.06	56.02	74.00	-17.98	peak
10	7833.667	18.96	22.26	41.22	54.00	-12.78	AVG
11	8494.990	20.59	38.51	59.10	74.00	-14.90	peak
12	8494.990	20.59	24.73	45.32	54.00	-8.68	AVG
Remark	: Other frequen	cy mini ma	rgin all >10 dB	of Limit		•	

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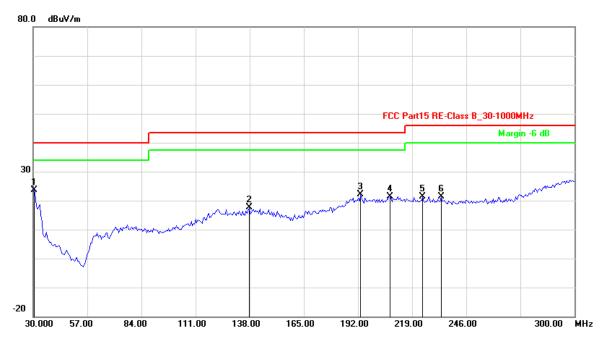




Channel:	TX –X Position Mode Middle 2440MHz	Result:	<ul><li>passed</li></ul>
Test point:	Horizontal		☐ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	BMD-200
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	19~21 March 2014
Operator	Duke
MODEL NO	BMD-200

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2440.00	3.18	82.46	85.64	114.00	-28.36	Peak
2	2440.00	3.18	80.03	83.21	94.00	-10.79	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	30.5411	-18.94	42.49	23.55	40.00	-16.45	QP
2	137.6754	-16.54	34.07	17.53	43.50	-25.97	QP
3	193.4068	-12.23	34.32	22.09	43.50	-21.41	QP
4	208.0160	-12.18	33.68	21.50	43.50	-22.00	QP
5	224.2485	-12.39	33.77	21.38	46.00	-24.62	QP
6	233.4469	-12.61	33.89	21.28	46.00	-24.72	QP
Remark:	Other frequen	icy mini ma	rgin all >10 dB	of Limit			

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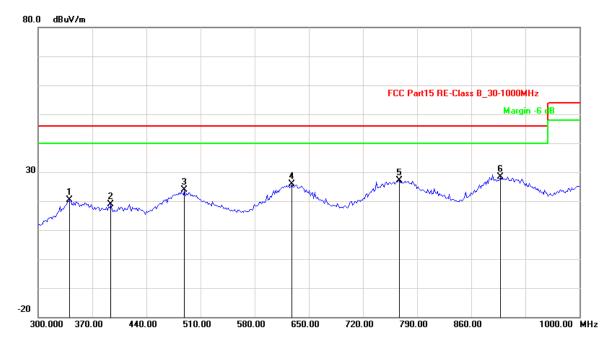
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	340.6814	-13.14	33.53	20.39	46.00	-25.61	QP
2	393.9880	-14.98	33.95	18.97	46.00	-27.03	QP
3	489.3788	-9.92	33.91	23.99	46.00	-22.01	QP
4	628.2565	-7.29	33.08	25.79	46.00	-20.21	QP
5	767.1343	-5.65	32.87	27.22	46.00	-18.78	QP
6	897.5952	-4.04	32.44	28.40	46.00	-17.60	QP
Remark	Other frequen	cy mini ma	rgin all >10 dB	of Limit			

## Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2983.968	6.51	43.36	49.87	74.00	-24.13	peak
2	2983.968	6.51	28.90	35.41	54.00	-18.59	AVG
3	3777.555	9.10	41.23	50.33	74.00	-23.67	peak
4	3777.555	9.10	26.54	35.64	54.00	-18.36	AVG
5	5188.377	12.77	38.90	51.67	74.00	-22.33	peak
6	5188.377	12.77	23.51	36.28	54.00	-17.72	AVG
7	6312.625	16.14	40.25	56.39	74.00	-17.61	peak
8	6312.625	16.14	25.44	41.58	54.00	-12.42	AVG
9	7194.389	18.07	37.66	55.73	74.00	-18.27	peak
10	7194.389	18.07	22.06	40.13	54.00	-13.87	AVG
11	7635.270	18.68	37.65	56.33	74.00	-17.67	peak
12	7635.270	18.68	23.41	42.09	54.00	-11.91	AVG
Remark	: Other frequen	ncy mini ma	rgin all >10 dB	of Limit			

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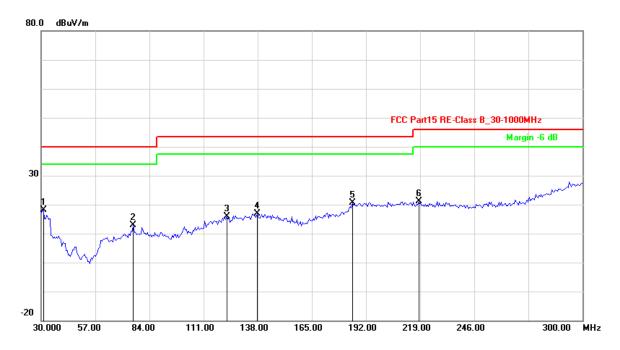






Channel:TX –X Position Mode Middle 2440MHzResult:■ - passedTest point:Vertical□ - not passedFrequency range:30MHzHz-26.5GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2440.00	3.18	79.75	82.93	114.00	-31.07	Peak
2	2440.00	3.18	77.04	80.22	94.00	-13.78	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	31.0822	-19.43	37.61	18.18	40.00	-21.82	QP			
2	75.9920	-21.44	34.21	12.77	40.00	-27.23	QP			
3	122.5251	-17.86	33.75	15.89	43.50	-27.61	QP			
4	137.6754	-16.54	33.52	16.98	43.50	-26.52	QP			
5	185.2906	-13.68	34.19	20.51	43.50	-22.99	QP			
6	218.2966	-12.37	33.57	21.20	46.00	-24.80	QP			
Remark:	Remark: Other frequency mini margin all >10 dB of Limit									

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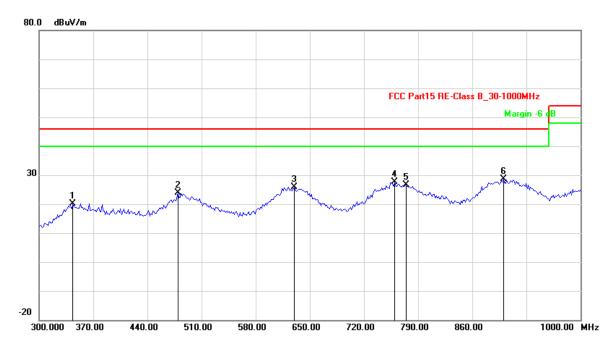
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	343.4870	-13.25	33.30	20.05	46.00	-25.95	QP			
2	479.5591	-9.77	33.57	23.80	46.00	-22.20	QP			
3	629.6593	-7.33	33.17	25.84	46.00	-20.16	QP			
4	760.1202	-5.49	33.14	27.65	46.00	-18.35	QP			
5	774.1483	-5.82	32.46	26.64	46.00	-19.36	QP			
6	900.4008	-3.92	32.53	28.61	46.00	-17.39	QP			
Remark	Remark: Other frequency mini margin all >10 dB of Limit									

## Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3226.453	7.33	42.90	50.23	74.00	-23.77	peak
2	3226.453	7.33	27.36	34.69	54.00	-19.31	AVG
3	3821.643	9.24	40.44	49.68	74.00	-24.32	peak
4	3821.643	9.24	25.88	35.12	54.00	-18.88	AVG
5	5320.641	13.19	38.80	51.99	74.00	-22.01	peak
6	5320.641	13.19	23.79	36.98	54.00	-17.02	AVG
7	5849.699	14.90	40.16	55.06	74.00	-18.94	peak
8	5849.699	14.90	25.36	40.26	54.00	-13.74	AVG
9	7569.138	18.59	38.00	56.59	74.00	-17.41	peak
10	7569.138	18.59	22.76	41.35	54.00	-12.65	AVG
11	8715.431	21.21	38.66	59.87	74.00	-14.13	peak
12	8715.431	21.21	24.07	45.28	54.00	-8.72	AVG
Remark:	Other frequen	icy mini ma	rgin all >10 dB	of Limit			

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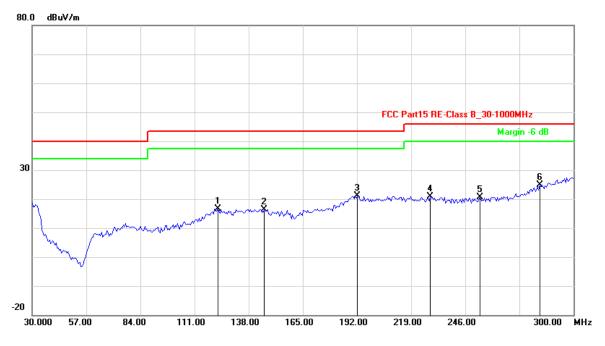




Channel:	TX –X Position Mode High 2480MHz	Result:	■ - passed
Test point:	Horizontal		□ - not passed
Frequency range:	30MHz-26.5GHz		

EUT	BMD-200
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	19~21 March 2014
Operator	Duke
MODEL NO	BMD-200

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480.00	3.57	81.78	85.35	114.00	-28.65	Peak
2	2480.00	3.57	78.59	82.16	94.00	-11.84	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	122.5251	-17.86	34.53	16.67	43.50	-26.83	QP
2	145.7916	-16.94	33.44	16.50	43.50	-27.00	QP
3	192.3246	-12.16	33.34	21.18	43.50	-22.32	QP
4	228.5772	-12.35	33.23	20.88	46.00	-25.12	QP
5	253.4669	-12.72	33.44	20.72	46.00	-25.28	QP
6	283.2265	-8.61	33.57	24.96	46.00	-21.04	QP
Remark:	Remark: Other frequency mini margin all >10 dB of Limit						

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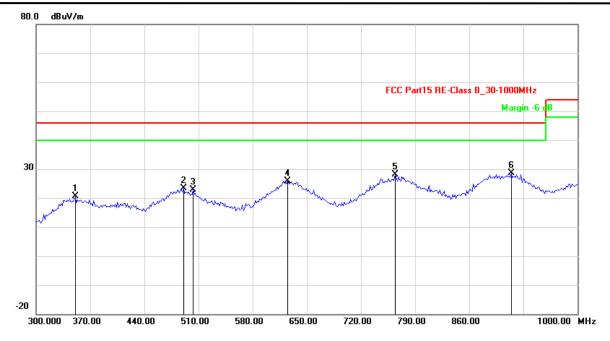
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	350.5010	-13.52	34.03	20.51	46.00	-25.49	QP
2	490.7816	-9.95	33.33	23.38	46.00	-22.62	QP
3	503.4068	-10.68	33.68	23.00	46.00	-23.00	QP
4	625.4509	-7.22	33.22	26.00	46.00	-20.00	QP
5	764.3287	-5.59	33.71	28.12	46.00	-17.88	QP
6	914.4289	-4.35	32.93	28.58	46.00	-17.42	QP
Remark	Remark: Other frequency mini margin all >10 dB of Limit						

## Above 1GHz

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	2939.880	6.26	42.66	48.92	74.00	-25.08	peak	
2	2939.880	6.26	27.35	33.61	54.00	-20.39	AVG	
3	3711.423	8.88	40.83	49.71	74.00	-24.29	peak	
4	3711.423	8.88	25.37	34.25	54.00	-19.75	AVG	
5	4527.054	11.05	38.49	49.54	74.00	-24.46	peak	
6	4527.054	11.05	24.12	35.17	54.00	-18.83	AVG	
7	5519.038	13.83	40.25	54.08	74.00	-19.92	peak	
8	5519.038	13.83	26.23	40.06	54.00	-13.94	AVG	
9	7194.389	18.07	38.08	56.15	74.00	-17.85	peak	
10	7194.389	18.07	23.45	41.52	54.00	-12.48	AVG	
11	8120.240	19.53	38.60	58.13	74.00	-15.87	peak	
12	8120.240	19.53	24.16	43.69	54.00	-10.31	AVG	
Remark	Remark: Other frequency mini margin all >10 dB of Limit							

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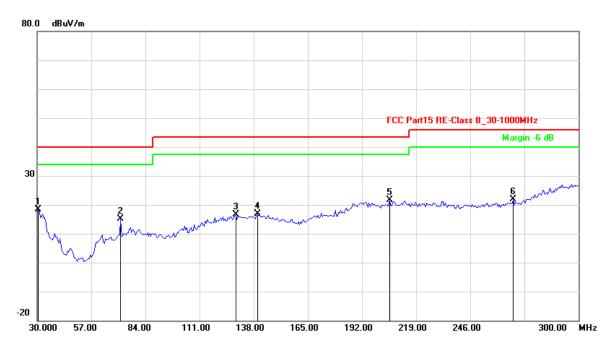
#### **CENTRE OF TESTING SERVICE**





Channel: TX –X Position Mode High 2480MHz Test point: Vertical □ - not passed □ - not passed □ - not passed

No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2480.00	3.57	79.44	83.01	114.00	-30.99	Peak
2	2480.00	3.57	77.22	80.79	94.00	-13.21	AVG



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	30.5411	-18.94	37.26	18.32	40.00	-21.68	QP
2	71.6633	-22.57	37.69	15.12	40.00	-24.88	QP
3	129.0180	-17.17	33.82	16.65	43.50	-26.85	QP
4	139.8397	-16.39	33.39	17.00	43.50	-26.50	QP
5	205.8517	-12.31	34.00	21.69	43.50	-21.81	QP
6	267.5351	-11.96	33.85	21.89	46.00	-24.11	QP
Remark	Remark: Other frequency mini margin all >10 dB of Limit						

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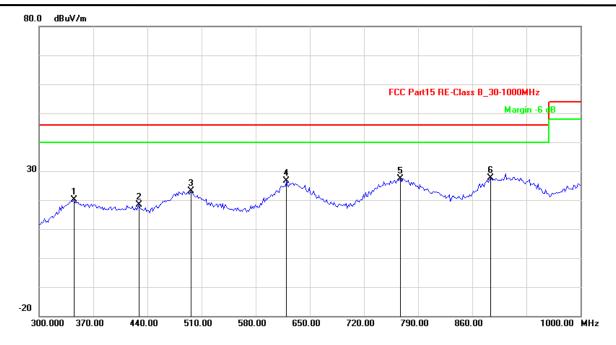
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No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	344.8898	-13.30	33.36	20.06	46.00	-25.94	QP
2	429.0581	-15.36	33.85	18.49	46.00	-27.51	QP
3	496.3928	-10.08	33.13	23.05	46.00	-22.95	QP
4	619.8397	-7.10	33.76	26.66	46.00	-19.34	QP
5	767.1343	-5.65	33.05	27.40	46.00	-18.60	QP
6	883.5671	-4.76	32.40	27.64	46.00	-18.36	QP
Remark	Remark: Other frequency mini margin all >10 dB of Limit						

## Above 1GHz

No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2961.924	6.38	42.59	48.97	74.00	-25.03	peak	
2	2961.924	6.38	27.24	33.62	54.00	-20.38	AVG	
3	3821.643	9.24	40.32	49.56	74.00	-24.44	peak	
4	3821.643	9.24	24.93	34.17	54.00	-19.83	AVG	
5	4284.569	10.48	38.69	49.17	74.00	-24.83	peak	
6	4284.569	10.48	23.78	34.26	54.00	-19.74	AVG	
7	4989.980	12.14	38.64	50.78	74.00	-23.22	peak	
8	4989.980	12.14	23.68	35.82	54.00	-18.18	AVG	
9	5937.876	15.18	41.03	56.21	74.00	-17.79	peak	
10	5937.876	15.18	25.87	41.05	54.00	-12.95	AVG	
11	7569.138	18.59	38.04	56.63	74.00	-17.37	peak	
12	7569.138	18.59	22.98	41.57	54.00	-12.43	AVG	
Remark:	Remark: Other frequency mini margin all >10 dB of Limit							

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## 8. Band Edge Compliance test

## 8.1. Test Equipment

Band Edge Compliance test							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.		
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	10868	2013/11		
2	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2013/03		
3	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2013/03		

#### 8.2. Test Information

EUT	BMD-200
Test Condition	Ambient Temperature: 25°C Humidity: 56%
Test distance	3 Meter
Test Date:	19~21 March 2014
Operator	Duke
MODEL NO	BMD-200

## 8.3. Test procedure

- 1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setp 1,and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. 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=1KHz(1/On time) / Sweep=AUTO

#### 8.4. Test Results

#### PASSED.

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

Test Mode	Channel Marked Frequency	Test Result Highest Emission (dBuv/m)			
		Horizontal		Vertical	
		Peak	Average	Peak	Average
Low Channel	2390MHz	42.49	19.47	41.66	19.31
	2400MHz	66.09	57.49	64.58	55.17
High Channel	2483.5MHz	49.04	44.08	47.39	42.16
	2500MHz	28.64	18.58	28.57	18.38

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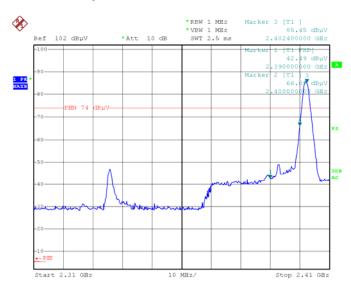






## Band Edges(CH Low) Detector mode:Peak

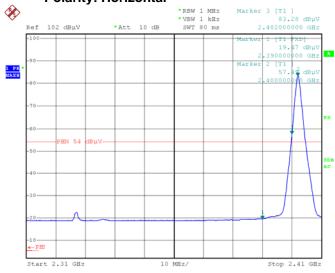
#### **Polarity:Horizontal**



Date: 21.MAR.2014 07:40:12

## Band Edges(CH Low) Detector mode: Average

**Polarity: Horizontal** 



Date: 21.MAR.2014 08:14:21

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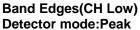
E-mail: cts@cts-lab.com.cn

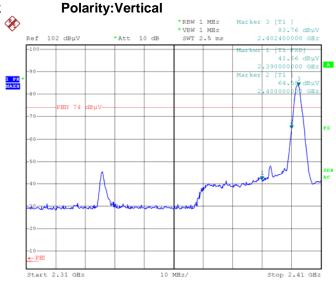
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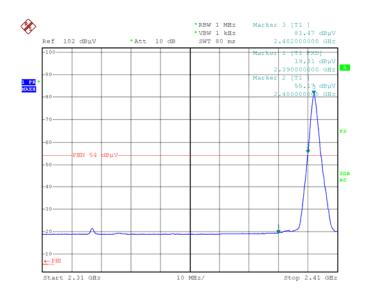




Date: 21.MAR.2014 07:40:59

## Band Edges(CH Low) Detector mode:Average

## **Polarity:Vertical**



Date: 21.MAR.2014 08:13:37

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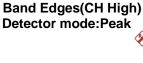
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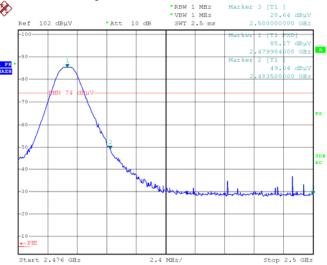
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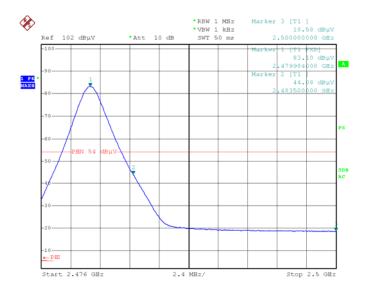




Date: 21.MAR.2014 08:27:19

## Band Edges(CH High) Detector mode:Average

## Polarity:Horizontal



Date: 21.MAR.2014 08:24:48

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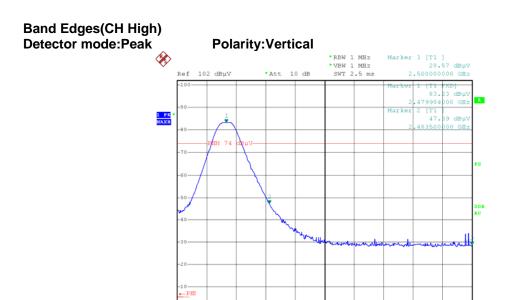
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Date: 21.MAR.2014 08:26:33

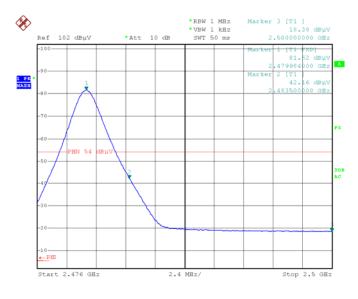
Start 2.476 GHz

## Band Edges(CH High) Detector mode:Average

## Polarity: Vertical

2.4 MHz/

Stop 2.5 GHz



Date: 21.MAR.2014 08:25:08

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## 9. Deviation to test specifications

The following identical model(s):

N/A

Belong to the tested device:

Product description: **BMD-200**Model name: **BMD-200** 

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