



## Shenzhen EBO Technology Co., Ltd.

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FCC ID: SOV8300  
IC ID: 5511A-8300  
Report No.: FCCIC10-RTE082002  
Page: 1 of 68

# TEST REPORT

**Application No.:** FCC&IC10-RTE07207RF  
**Applicant:** ARCHOS S.A.  
**Address of Applicant:** 12 Rue Ampere ZI 91430 Igny, France  
**FCC ID:** SOV8300  
**IC ID:** 5511A-8300  
**Fundamental Carrier Frequency :** 2.402GHz to 2.480GHz  
**Equipment Under Test (EUT):**  
EUT Name: A43 Internet Tablet  
Item No.: 8300  
Serial No.: Not supplied by client  
**Standards:** FCC PART 15 Subpart C: 2008  
RSS-210 Issue 7 July 2007  
RSS-Gen Issue 2 July 2007  
**Date of Receipt:** 20 July. 2010  
**Date of Test:** 22 July. 2010 to 15 August. 2010  
**Date of Issue:** 20 August. 2010

|                      |              |
|----------------------|--------------|
| <b>Test Result :</b> | <b>PASS*</b> |
|----------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Kavin Yu  
Manager

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## 1 Test Summary

| Test                                                           | Test Requirement             | Standard Paragraph                                            | Result |
|----------------------------------------------------------------|------------------------------|---------------------------------------------------------------|--------|
| <b>Conducted Emissions</b>                                     | FCC PART 15:2008             | Section 15.207                                                | PASS   |
|                                                                | RSS-Gen:2007                 | Section 7.2.2                                                 |        |
| <b>Radiated Emissions</b>                                      | FCC PART 15:2008             | Section 15.205/15.209                                         | PASS   |
|                                                                | RSS-210:2007<br>RSS-Gen:2007 | A 8.5<br>Secion 7.2.3                                         |        |
| <b>Maximum Peak Output Power</b>                               | FCC PART 15:2008             | Section 15.247 (b)                                            | PASS   |
|                                                                | RSS-210:2007                 | A 8.4(2)                                                      |        |
| <b>20 dB Occupied Bandwidth</b>                                | FCC PART 15:2008             | Section 15.247 (a)(1)                                         | PASS   |
|                                                                | RSS-210:2007                 | A 8.1(a)                                                      |        |
| <b>99% Occupied Bandwidth</b>                                  | RSS-Gen:2007                 | Section 4.6                                                   | PASS   |
| <b>Carrier Frequency Separation</b>                            | FCC PART 15:2008             | Section 15.247 (a)(1)                                         | PASS   |
|                                                                | RSS-210:2007                 | A 8.1(b)                                                      |        |
| <b>Number of Hopping Frequencies</b>                           | FCC PART 15:2008             | Section 15.247 (a)(1)(iii)                                    | PASS   |
|                                                                | RSS-210:2007                 | A 8.4(2)                                                      |        |
| <b>Time of Occupancy</b>                                       | FCC PART 15:2008             | Section 15.247 (a)(1)(iii)                                    | PASS   |
|                                                                | RSS-210:2007                 | A 8.1(d)                                                      |        |
| <b>Band Edges and Conducted Spurious Emissions Measurement</b> | FCC PART 15:2008             | Section 15.247(d)                                             | PASS   |
|                                                                | RSS-210:2007                 | A 8.5                                                         |        |
| <b>Antenna requirement.</b>                                    | FCC PART 15:2008             | Section 15.247 (b)                                            | PASS   |
| <b>RF Exposure Compliance Requirement</b>                      | FCC PART 15:2008             | 15.247(b)(4)&<br>1) c) D01 Mobile Portable<br>RF Exposure v04 | PASS   |
|                                                                | RSS-102:2010                 | Section 2.5.1                                                 |        |

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### 3 General Information

#### 3.1 Client Information

Applicant: ARCHOS S.A.  
Address of Applicant: 12 Rue Ampere ZI 91430 Igny, France

#### 3.2 General Description of E.U.T.

Equipment Under Test: Wireless Data Transmission (Bluetooth)  
Trade Name: ARCHOS  
Type Designation: A43 Internet tablet  
Model Number: 8300  
Type of modulation: GFSK, Pi/4QPSK, 8DPSK  
Number of Channels: 79  
Operation Frequency: 2402 ~2480MHz  
Antenna Designation: PCB Antenna  
Antenna Gain: 0dBi  
Power Supply: Lithium polymer battery 3.7V  
(The new battery be used during testing)  
Date of Test: July 22,, 2010 to August 15, 2010

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| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| 0       | 2402               | 20      | 2422               | 40      | 2442               | 60      | 2480               |
| 1       | 2403               | 21      | 2423               | 41      | 2443               | 61      | 2463               |
| 2       | 2404               | 22      | 2424               | 42      | 2444               | 62      | 2464               |
| 3       | 2405               | 23      | 2425               | 43      | 2445               | 63      | 2465               |
| 4       | 2406               | 24      | 2426               | 44      | 2446               | 64      | 2466               |
| 5       | 2407               | 25      | 2427               | 45      | 2447               | 65      | 2467               |
| 6       | 2408               | 26      | 2428               | 46      | 2448               | 66      | 2468               |
| 7       | 2409               | 27      | 2429               | 47      | 2449               | 67      | 2469               |
| 8       | 2410               | 28      | 2430               | 48      | 2450               | 68      | 2470               |
| 9       | 2411               | 29      | 2431               | 49      | 2451               | 69      | 2471               |
| 10      | 2402               | 30      | 2432               | 50      | 2452               | 70      | 2472               |
| 11      | 2413               | 31      | 2433               | 51      | 2453               | 71      | 2473               |
| 12      | 2414               | 32      | 2434               | 52      | 2454               | 72      | 2474               |
| 13      | 2415               | 33      | 2435               | 53      | 2455               | 73      | 2475               |
| 14      | 2416               | 34      | 2436               | 54      | 2456               | 74      | 2476               |
| 15      | 2417               | 35      | 2447               | 55      | 2457               | 75      | 2477               |
| 16      | 2418               | 36      | 2438               | 56      | 2458               | 76      | 2478               |
| 17      | 2419               | 37      | 2439               | 57      | 2459               | 77      | 2479               |
| 18      | 2420               | 38      | 2440               | 58      | 2460               | 78      | 2480               |
| 19      | 2421               | 39      | 2441               | 59      | 2461               |         |                    |

Note:

Regards to the frequency band over 10MHz, the lowest, middle and highest frequency of channel were selected to perform the test, and then shown on this report.

So the there channel as follow:

Lowest channel: 2402MHz

Middle channel: 2447MHz

Highest channel: 2480 MHz

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### 3.3 Test Supporting System Details

| Equipment Name | Modle No.      | Manufacturer | FCC Status |
|----------------|----------------|--------------|------------|
| PC             | M2700          | Lenovo       | DOC        |
| Monitor        | TFT1780PS      | AOV          | DOC        |
| Printer        | LaserJet P2014 | HP           | DOC        |
| Keyboard       | JME7053        | Lenovo       | DOC        |
| Mouse          | N/A            | Lenovo       | DOC        |

### 3.4 Test Location

All tests were sub-contracted to:

ATC Lab Co., Ltd (Guangdong, China).

205#, Yingfeng Building, Ronggu Rd,Foshan, Guangdong, China (528305)

Phone:0757-23612690

Fax:0757-23612537

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### 3.5 Test Facility

IC-Registration No.: 415467

ATC Lab Co., Ltd (Guangdong, China) EMC Laboratory has been registered and fully described in a report filed with the IC (Federal Communications Commission). The acceptance letter from the IC is maintained in our files. Registration 415467. Listing date October 10, 2008.

IC-Registration No.: 7949A

The 3m Alternate Test Site of ATC Lab Co., Ltd (Guangdong, China) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7949A on Oct. 29th, 2008.

### 3.6 Measurement Uncertainty

- of +/-  $3 \times 10^{-9}$  for Carrier Frequency Separation Measurement
- of +/-  $3 \times 10^{-9}$  for Number of Hopping Frequencies Measurement
- of +/-  $3 \times 10^{-9}$  for 20dB Bandwidth Measurement
- of +/-  $3 \times 10^{-9}$  for Time of Occupancy (Dwell time) Measurement
- of +/- 0.8 dB for Peak Output Power Measurement
- of +/- 0.8 dB for Band Edge RF Conducted Measurement
- of +/- 0.8 dB for Spurious RF Conducted Emission Measurement
- of +/- 4.5 dB for Radiated Emissions
- of +/- 2.3 dB for Conducted Emissions

### 3.7 Other Information Requested by the Customer

None

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## 4 Equipment Used during Test

| <b>Conducted Emission</b> |                                         |              |           |            |               |
|---------------------------|-----------------------------------------|--------------|-----------|------------|---------------|
| No.                       | Test Equipment                          | Manufacturer | Model No. | Serial No. | Cal. Due Date |
| GAL-EMC002                | Shielding Room                          | ETS          | N/A       | N/A        | 2011-05-18    |
| GAL-EMC003                | Receiver                                | SCHAFFNER    | SMR4503   | 11725      | 2011-07-08    |
| GAL-EMC005                | Line impedance stabilization network    | EMCO         | 4825/2    | 1161       | 2011-07-08    |
| GAL-EMC098                | Line impedance stabilization network    | EMCO         | 3810/2    | 2516       | 2011-07-08    |
| <b>RF in Chamber</b>      |                                         |              |           |            |               |
| No.                       | Test Equipment                          | Manufacturer | Model No. | Serial No. | Cal. Due Date |
| GAL-EMC001                | Semi-anechoic Chamber                   | ETS          | N/A       | N/A        | 2011-05-25    |
| GAL-EMC003                | Receiver                                | SCHAFFNER    | SMR4503   | 11725      | 2011-07-08    |
| GAL-EMC007                | Double-ridged Wave guide horn           | ETS          | 3115      | 6587       | 2011-08-02    |
| GAL-EMC008                | Microwave system amplifier (0.5G-26.5G) | Agilent      | 83017A    | MY39500438 | 2011-07-08    |
| GAL-EMC017                | Biconilog Antenna                       | ETS          | 3142C     | 00042672   | 2010-09-26    |
| GAL-EMC055                | Band-pass Filter                        | Micro-Tronic | BRM50702  | S/N-030    | 2010-11-09    |
| GAL-EMC056                | Spectrum Analyzer 9KHz-30GHz            | R&S          | FSP30     | 100755     | 2010-11-02    |
| GAL-EMC075                | Double-ridged Wave guide horn           | ETS          | 3160      | 00052486   | 2011-08-02    |
| <b>RF Conducted</b>       |                                         |              |           |            |               |
| No.                       | Test Equipment                          | Manufacturer | Model No. | Serial No. | Cal. Due Date |
| GAL-EMC056                | Spectrum Analyzer 9KHz-30GHz            | R&S          | FSP30     | 100755     | 2010-11-02    |
| GAL-EMC100                | ATC—Lab                                 | N/A          | N/A       | N/A        | 2010-11-02    |

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## 5 Test Results

### 5.1 Conducted Emissions

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 B Section 15.207<br>RSS-Gen Section 7.2.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Test Method:      | ANSI C63.4:2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Frequency Range:  | 150KHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Class/Severity:   | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Detector:         | Peak for pre-scan (9 kHz resolution bandwidth)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Mode:        | Bluetooth mode (PC Active with the EUT in Bluetooth mode )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Voltage:     | 120Vac,60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Test Date:        | 22 July. 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Temperature:      | 23°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Humidity:         | 54%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Limit:            | (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges. |

| Frequency of Emission<br>(MHz) | Conducted Limit (dBuV) |            |
|--------------------------------|------------------------|------------|
|                                | Quasi-peak             | Average    |
| 0.15-0.5                       | 66 to 56 *             | 56 to 46 * |
| 0.5-5                          | 56                     | 46         |
| 5-30                           | 60                     | 50         |

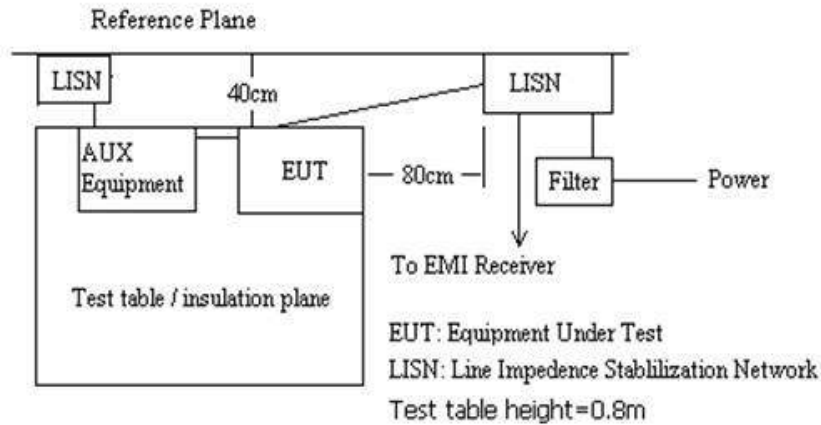
\* Decreases with the logarithm of the frequency.

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### 5.1.1 Test Setup



### 5.1.2 Test Procedure

The Device was connected to the artificial main network via PC( refer to section 3.3 for details), And test the EUT with activated in bluetooth receive mode and transmit mode.

### 5.1.3 Measurement Data

Measure the maximised peak emissions from the EUT for both the Live and Neutral Lines. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

PC Active with the EUT in transmit mode

| Frequency (MHz) | Line | Measured QP (dBuV) | QP Limit (dBuV) | Measured AV (dBuV) | AV Limit (dBuV) | Over Limit QP | Over Limit AV |
|-----------------|------|--------------------|-----------------|--------------------|-----------------|---------------|---------------|
| 0.1650          | L    | 40.90              | 65.13           | 12.30              | 55.13           | -24.23        | -42.83        |
| 0.2650          | L    | 29.30              | 61.23           | 13.40              | 51.23           | -31.93        | -37.83        |
| 0.3600          | L    | 26.20              | 58.71           | 17.20              | 48.71           | -32.51        | -31.51        |
| 2.1800          | L    | 23.10              | 56.00           | 15.90              | 46.00           | -32.90        | -30.10        |
| 7.7500          | L    | 26.60              | 60.00           | 17.40              | 50.00           | -33.40        | -32.60        |
| 10.6100         | L    | 28.10              | 60.00           | 21.10              | 50.00           | -31.90        | -28.90        |
| 0.1500          | N    | 44.30              | 65.92           | 29.30              | 55.92           | -21.62        | -26.62        |
| 0.2150          | N    | 35.00              | 62.95           | 15.80              | 52.95           | -27.95        | -37.15        |
| 2.1850          | N    | 24.40              | 56.00           | 23.00              | 46.00           | -31.60        | -23.00        |
| 7.8650          | N    | 28.80              | 60.00           | 23.70              | 50.00           | -31.20        | -26.30        |
| 8.2300          | N    | 29.20              | 60.00           | 23.40              | 50.00           | -30.80        | -26.60        |
| 10.7800         | N    | 30.50              | 60.00           | 25.20              | 50.00           | -29.50        | -24.80        |

**Test result: The unit does meet the requirements.**

**Test result plot as follows:**

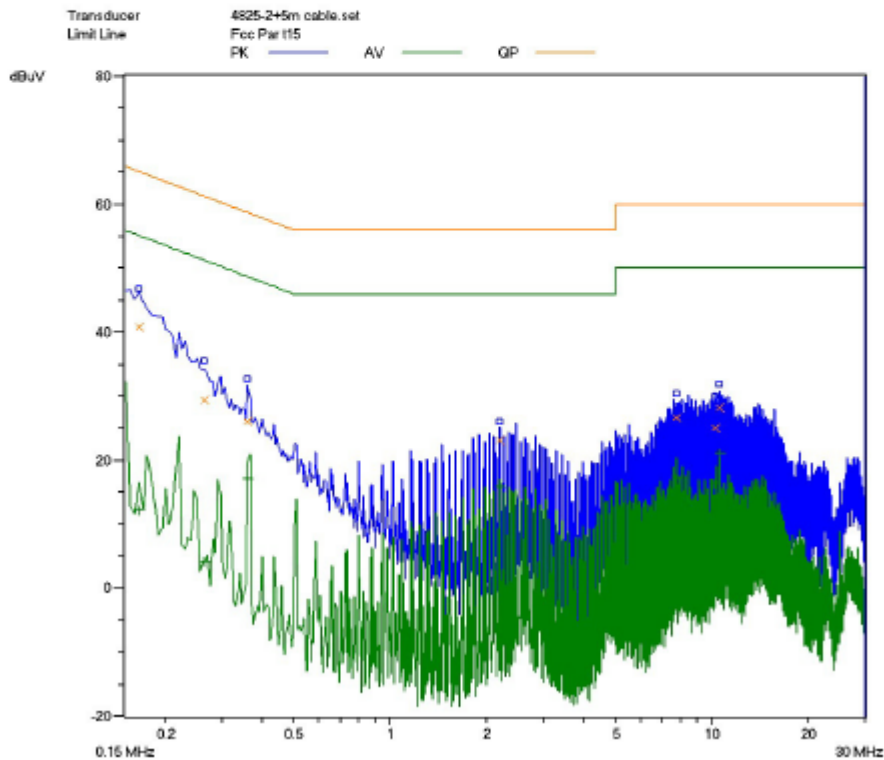
FCC ID: SOV 8300

IC ID: 5511A-8300



### Live Line

|                    |         |          |
|--------------------|---------|----------|
| Type               | A43     |          |
| Frequency Range(s) | Range 1 |          |
| Start Frequency    | 150 kHz |          |
| Stop Frequency     | 30 MHz  |          |
| Step Frequency     | 5 kHz   |          |
| Attenuator         | Auto    |          |
| Detector           | (Pre)   | AV CISPR |
| IF Bandwidth       | (Pre)   | 9 kHz    |
| Measure Time       | (Pre)   | 10 ms    |
| Detector           | (Final) | QP       |
| IF Bandwidth       | (Final) | 9 kHz    |
| Measure Time       | (Final) | 1 s      |
| Sub Ranges         | (Final) | 20       |



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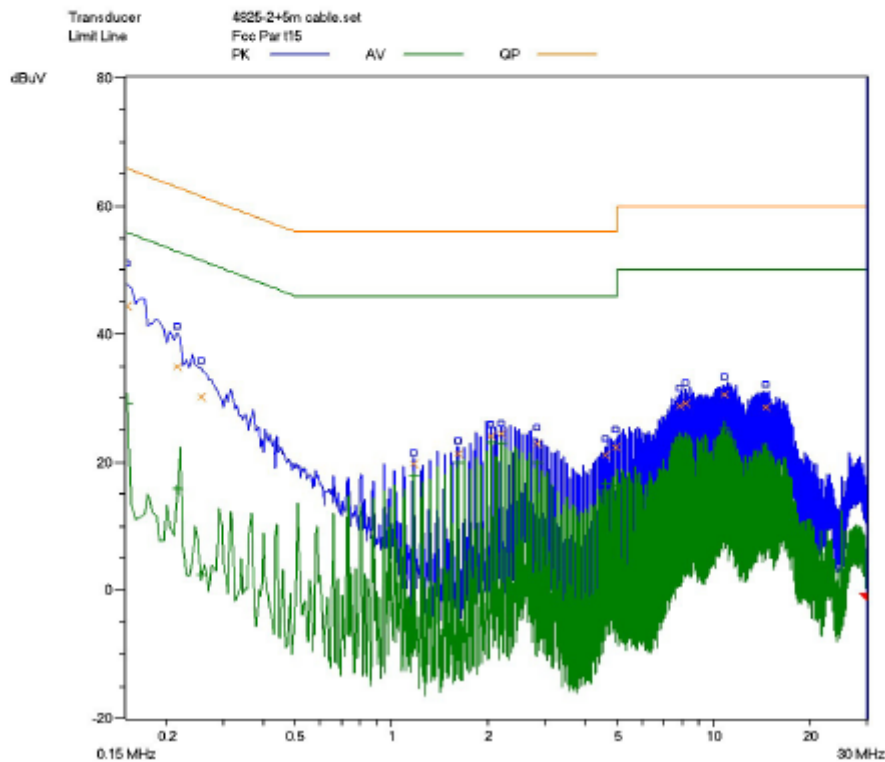
IC ID: 5511A-8300

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### Nuetral Line

|                      |          |
|----------------------|----------|
| Type                 | A43      |
| Frequency Range(s)   | Range 1  |
| Start Frequency      | 150 kHz  |
| Stop Frequency       | 30 MHz   |
| Step Frequency       | 5 kHz    |
| Attenuator           | Auto     |
| Detector (Pre)       | AV CISPR |
| IF Bandwidth (Pre)   | 9 kHz    |
| Measure Time (Pre)   | 10 ms    |
| Detector (Final)     | QP       |
| IF Bandwidth (Final) | 9 kHz    |
| Measure Time (Final) | 1 s      |
| Sub Ranges (Final)   | 20       |



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## 5.2 Radiated Emissions

|                          |                                                                                                                                                                                                                       |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247,15.209 and 15.205<br>RSS-210 A 8.5 and RSS-Gen Section 7.2.3                                                                                                                              |
| <b>Test Method:</b>      | ANSI C63.4:2003                                                                                                                                                                                                       |
| <b>Frequency Range:</b>  | 30MHz to 25GHz                                                                                                                                                                                                        |
| <b>Receiver Setup:</b>   | QP Detector (RBW=120 kHz,VBW=300kHz) for 30 to 1000 MHz RE testing<br>Peak Detector(RBW=1MHz,VBW=3MHz) for 1 to 25 GHz RE Peak value testing<br>Peak Detector(RBW=1MHz, VBW=10Hz) for 1 to 25 GHz RE AV value testing |
| <b>Test Mode:</b>        | Blue tooth transmit and receiver mode                                                                                                                                                                                 |
| <b>Test Date:</b>        | 22 July. 2010 to 25 July. 2010                                                                                                                                                                                        |
| <b>Temperature:</b>      | 23°C~25°C                                                                                                                                                                                                             |
| <b>Humidity:</b>         | 50%~55%                                                                                                                                                                                                               |
| <b>Limit:</b>            | The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:                                                                                |

| Frequency of Emission<br>(MHz) | Field Strength     |                  |
|--------------------------------|--------------------|------------------|
|                                | (microvolts/meter) | dB (μV/m)        |
| 30 - 88                        | 100                | 40(QP)           |
| 88 - 216                       | 150                | 43.5(QP)         |
| 216 - 960                      | 200                | 46(QP)           |
| 960-1000                       | 500                | 54(QP)           |
| Above 1000                     | 500                | 54(AV)<br>74(PK) |

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### 5.2.1 Test Setup

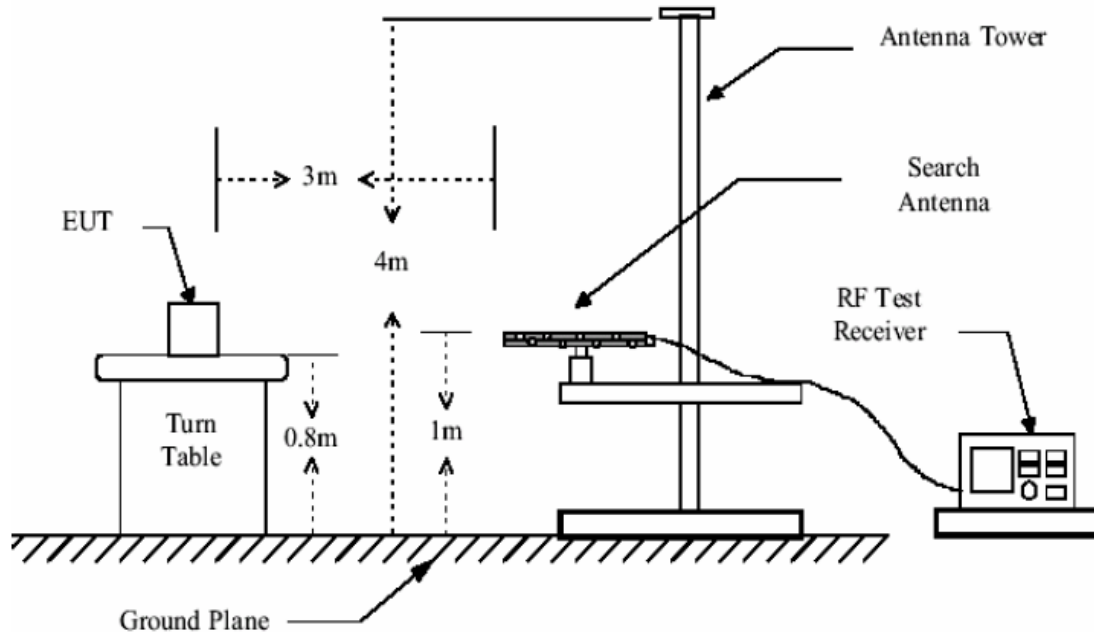


Figure1: 30MHz to 1GHz radiated emissions test setup

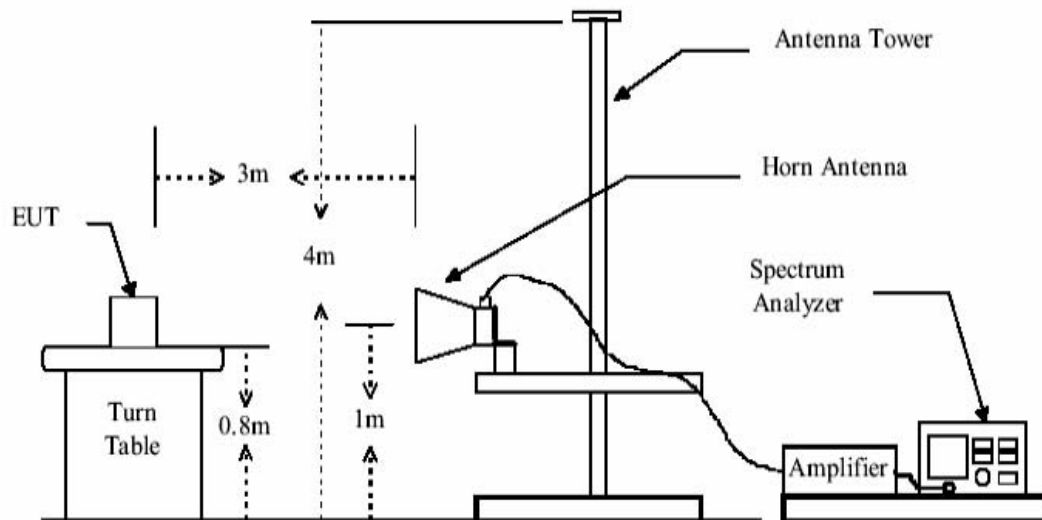


Figure 2: Above 1GHz radiated emissions test setup

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## 5.2.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which 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 all frequency measured were complete.

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

|                           |                                            |
|---------------------------|--------------------------------------------|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude    | AG = Amplifier Gain                        |

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### 5.2.3 Measurement Data

#### Radiated Emission below 1GHz

Bluetooth function with receiving modes

| Frequency (MHz) | Antenna Polarity | Reading (dBUV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBUV/m) | QP Limit (dBUV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| Below 1GHz      | H                | —                | —                    | —                       | —                 | Less than -30  | Pass       |
| Below 1GHz      | V                | —                | —                    | —                       | —                 |                | Pass       |

Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK with transmitting and find out the worst case is GFSK mode in transmitting.

| Frequency (MHz) | Antenna Polarity | Reading (dBUV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBUV/m) | QP Limit (dBUV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 36.160          | H                | -3.07            | 18.77                | 15.70                   | 40.00             | -24.30         | Pass       |
| 479.600         | H                | -6.60            | 19.20                | 12.60                   | 46.00             | -33.40         | Pass       |
| 619.360         | H                | -3.50            | 22.20                | 18.70                   | 46.00             | -27.30         | Pass       |
| 808.800         | H                | -5.12            | 24.52                | 19.40                   | 46.00             | -26.60         | Pass       |
| 957.280         | H                | -3.70            | 26.00                | 22.30                   | 46.00             | -23.70         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 35.440          | V                | -3.30            | 18.70                | 15.40                   | 40.00             | -24.60         | Pass       |
| 478.960         | V                | -6.70            | 19.20                | 12.50                   | 46.00             | -33.50         | Pass       |
| 658.320         | V                | -4.10            | 22.20                | 18.10                   | 46.00             | -27.90         | Pass       |
| 821.680         | V                | -5.12            | 24.72                | 19.60                   | 46.00             | -26.40         | Pass       |
| 959.360         | V                | -4.20            | 26.00                | 21.80                   | 46.00             | -24.20         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

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**Radiated Emission Above 1GHz**

Bluetooth with receiving modes

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 2402.000        | H                | 35.41            | -0.54                | 34.87                   | 74.00             | -39.13         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 2402.000        | V                | 36.80            | -0.54                | 36.26                   | 74.00             | -37.74         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

**Average Measurement**

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 2402.000        | H                | 28.24            | -0.54                | 27.70                   | 54.00             | -26.30         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 2402.000        | V                | 29.67            | -0.54                | 29.13                   | 54.00             | -24.87         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

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Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK with transmitting and find out the worst case is GFSK mode in transmitting.

Transmitting mode (GFSK mode Lowest channel=2402MHz)

**Peak Measurement**

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1102.000        | H                | 45.78            | -5.10                | 40.68                   | 74.00             | -33.32         | Pass       |
| 4804.000        | H                | 43.29            | 6.10                 | 49.39                   | 74.00             | -24.61         | Pass       |
| 7206.000        | H                | 42.10            | 11.80                | 53.90                   | 74.00             | -20.10         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 1238.000        | V                | 45.80            | -4.80                | 41.00                   | 74.00             | -33.00         | Pass       |
| 4804.000        | V                | 42.75            | 6.10                 | 48.85                   | 74.00             | -25.15         | Pass       |
| 7206.000        | V                | 41.55            | 11.80                | 53.35                   | 74.00             | -20.65         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

**Average Measurement**

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1102.000        | H                | 36.20            | -5.10                | 31.10                   | 54.00             | -22.90         | Pass       |
| 4804.000        | H                | 28.60            | 6.10                 | 34.70                   | 54.00             | -19.30         | Pass       |
| 7206.000        | H                | 30.10            | 11.80                | 41.90                   | 54.00             | -12.10         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 1238.000        | V                | 33.52            | -4.80                | 28.72                   | 54.00             | -25.28         | Pass       |
| 4804.000        | V                | 30.46            | 6.10                 | 36.56                   | 54.00             | -17.44         | Pass       |
| 7206.000        | V                | 28.94            | 11.80                | 40.74                   | 54.00             | -13.26         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

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Transmitting mode (GFSK mode Middle channel=2447MHz)

**Peak Measurement**

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1102.000        | H                | 45.31            | -5.10                | 40.21                   | 74.00             | -33.79         | Pass       |
| 4894.000        | H                | 42.39            | 6.10                 | 48.49                   | 74.00             | -25.51         | Pass       |
| 7341.000        | H                | 41.87            | 11.92                | 53.79                   | 74.00             | -20.21         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 1102.000        | V                | 45.57            | -5.10                | 40.47                   | 74.00             | -33.53         | Pass       |
| 4894.000        | V                | 40.36            | 6.10                 | 46.46                   | 74.00             | -27.54         | Pass       |
| 7341.000        | V                | 42.00            | 11.92                | 53.92                   | 74.00             | -20.08         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

**Average Measurement**

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1102.000        | H                | 34.25            | -5.10                | 29.15                   | 54.00             | -24.85         | Pass       |
| 4894.000        | H                | 30.26            | 6.10                 | 36.36                   | 54.00             | -17.64         | Pass       |
| 7341.000        | H                | 29.73            | 11.92                | 41.65                   | 54.00             | -12.35         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 1102.000        | V                | 32.64            | -5.10                | 27.54                   | 54.00             | -26.46         | Pass       |
| 4894.000        | V                | 29.86            | 6.10                 | 35.96                   | 54.00             | -18.04         | Pass       |
| 7341.000        | V                | 29.40            | 11.92                | 41.32                   | 54.00             | -12.68         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

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Transmitting mode (GFSK mode Highest channel=2480MHz)

Peak Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | PK Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1170.000        | H                | 44.89            | -5.00                | 39.89                   | 74.00             | -34.11         | Pass       |
| 4960.000        | H                | 40.53            | 6.10                 | 46.63                   | 74.00             | -27.37         | Pass       |
| 7440.000        | H                | 41.37            | 12.10                | 53.47                   | 74.00             | -20.53         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 1238.000        | V                | 44.36            | -4.80                | 39.56                   | 74.00             | -34.44         | Pass       |
| 4960.000        | V                | 41.05            | 6.10                 | 47.15                   | 74.00             | -26.85         | Pass       |
| 7440.000        | V                | 41.26            | 12.10                | 53.36                   | 74.00             | -20.64         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

Average Measurement

| Frequency (MHz) | Antenna Polarity | Reading (dBuV/m) | Ant./CL/ Amp.CF (dB) | Measured Level (dBuV/m) | AV Limit (dBuV/m) | Over Limit(dB) | Pass /Fail |
|-----------------|------------------|------------------|----------------------|-------------------------|-------------------|----------------|------------|
| 1170.000        | H                | 33.15            | -5.00                | 28.15                   | 54.00             | -25.85         | Pass       |
| 4960.000        | H                | 29.86            | 6.10                 | 35.96                   | 54.00             | -18.04         | Pass       |
| 7440.000        | H                | 28.13            | 12.10                | 40.23                   | 54.00             | -13.77         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| 1238.000        | V                | 36.70            | -4.80                | 31.90                   | 54.00             | -22.10         | Pass       |
| 4960.000        | V                | 30.59            | 6.10                 | 36.69                   | 54.00             | -17.31         | Pass       |
| 7440.000        | V                | 30.14            | 12.10                | 42.24                   | 54.00             | -11.76         | Pass       |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |
| -               | -                | -                | -                    | -                       | -                 | -              | -          |

FCC ID: SOV 8300

IC ID: 5511A-8300

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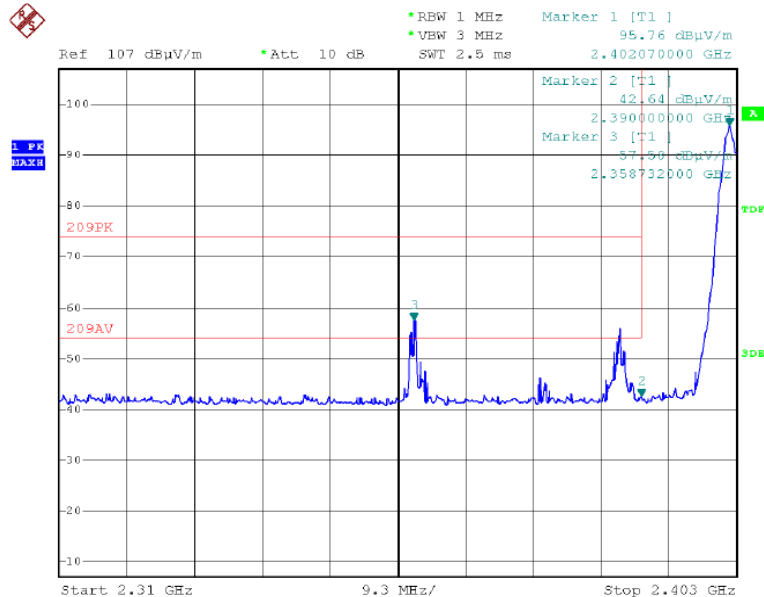


### Band Edge and Restrictd band (Radiated measurement)

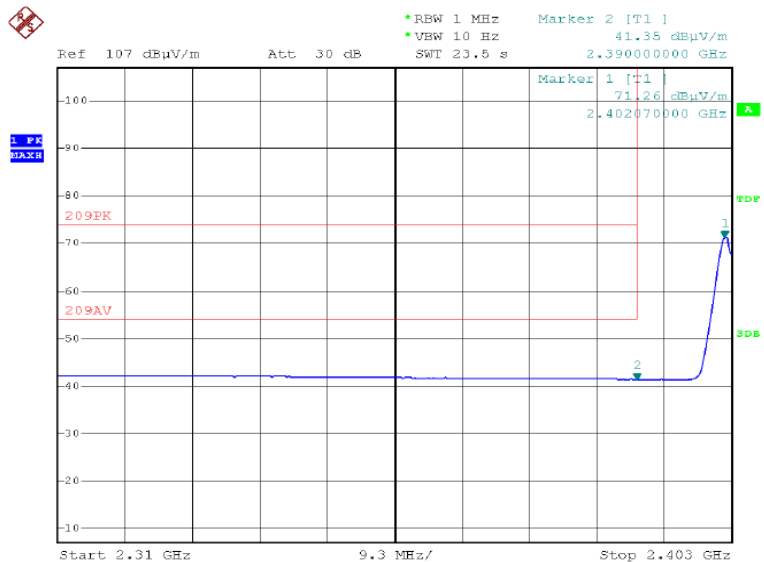
Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK with transmitting mode and find out the worst case is 8DPSK mode in transmitting.

Transmitting with 8DPSK mode (Lowest channel=2402MHz)

Peak Measurement in Horizontal polarization



Average Measurement in Horizontal polarization



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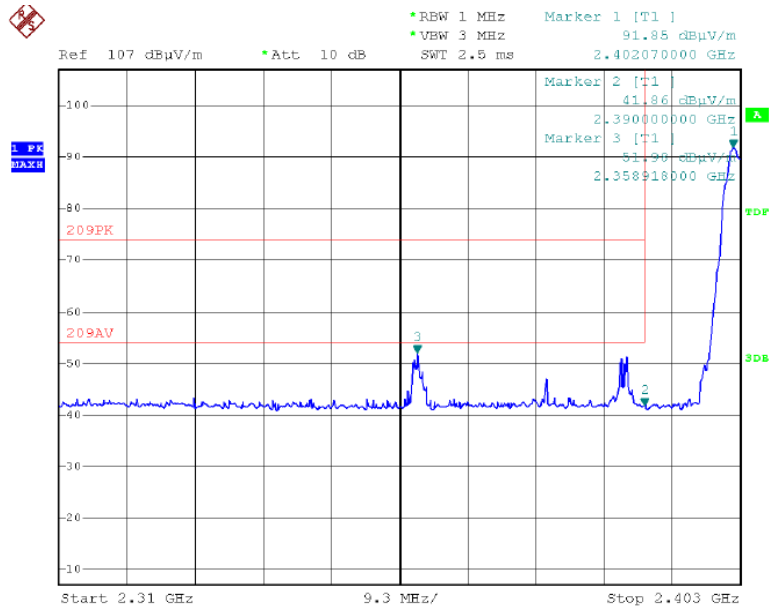
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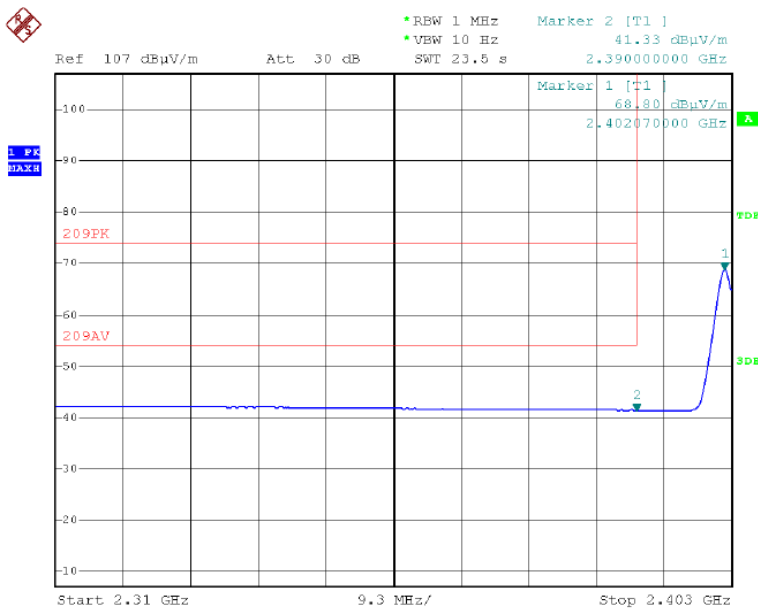


Transmitting with 8DPSK mode (Lowest channel=2402MHz)

Peak Measurement in Vertical polarization



Average Measurement in Vertical polarization



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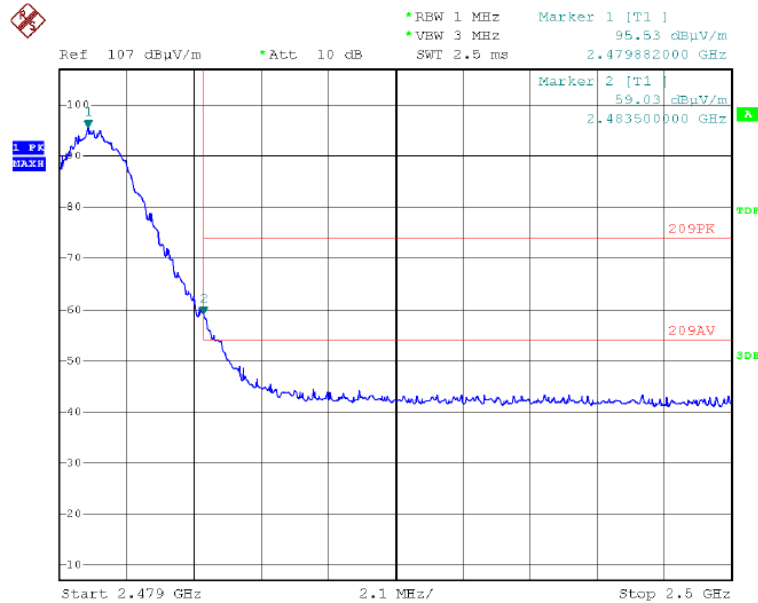
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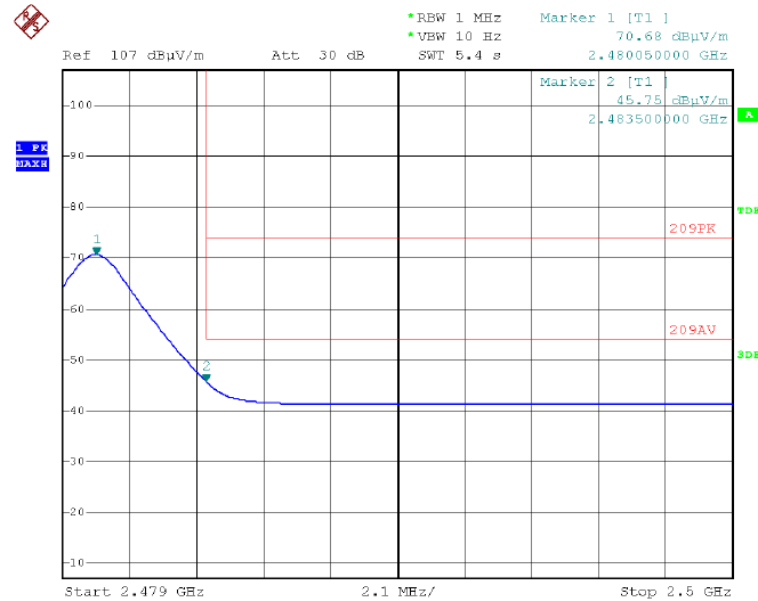


Transmitting with 8DPSK mode (Highest channel=2480MHz)

Peak Measurement in Horizontal polarization



Average Measurement in Horizontal polarization

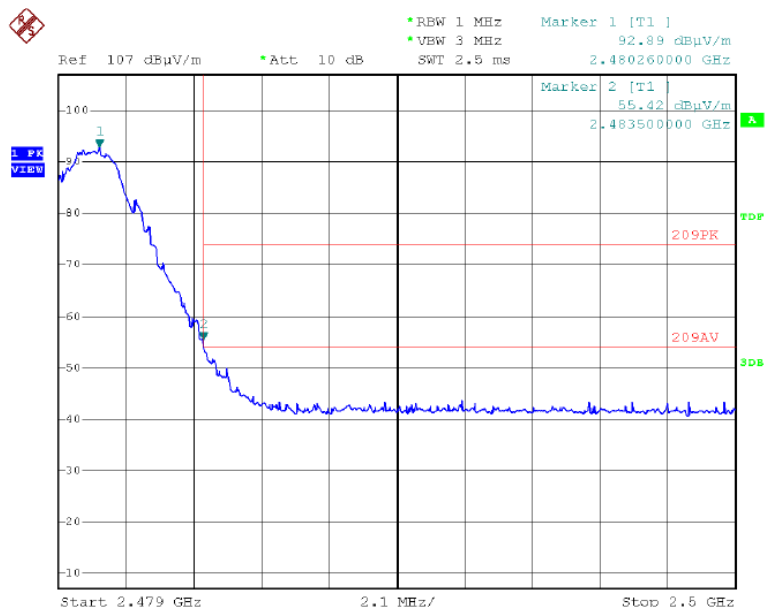


FCC ID: SOV 8300

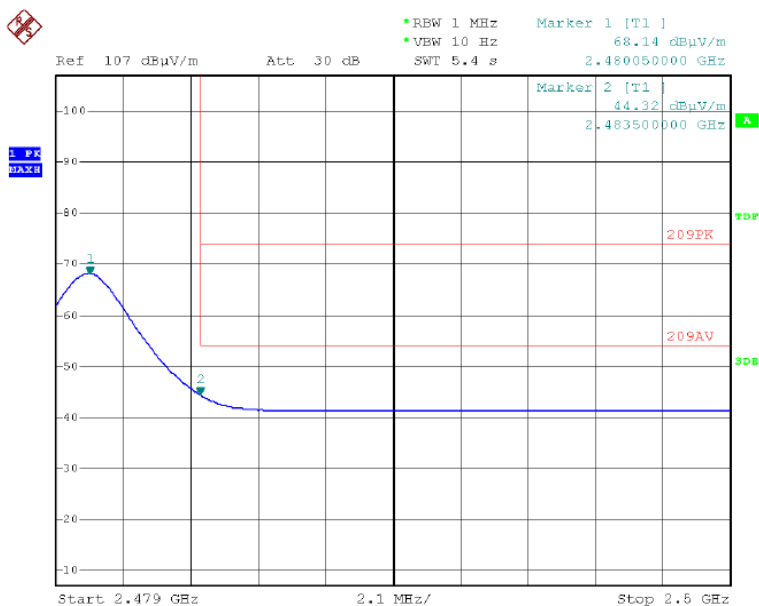
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### Peak Measurement in Vertical polarization



### Average Measurement in Vertical polarization



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Remark 1:

No any other emissions level which are attenuated less than 20dB below the limit According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

Remark 2:

- 1). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 2). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.
- 3) Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates and antenna ports, and found the EUT worse case mode: 8DPSK modulation mode.
- 4) For this intentional radiator operates below 25 GHz. The spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the 4th harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 4th harmonic.

Remark 3:

Section 15.205 Restricted bands of operation.

| MHz                 | MHz                 | MHz             | GHz              |
|---------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110       | 16.42 - 16.423      | 399.9 - 410     | 4.5 - 5.15       |
| 10.495 - 0.505      | 16.69475 - 16.69525 | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905     | 16.80425 - 16.80475 | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128       | 25.5 - 25.67        | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775   | 37.5 - 38.25        | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775   | 73 - 74.6           | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218       | 74.8 - 75.2         | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825   | 108 - 121.94        | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225   | 123 - 138           | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294       | 149.9 - 150.05      | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366       | 156.52475 -         | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675   | 156.52525           | 2655 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475   | 156.7 - 156.9       | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293      | 162.0125 - 167.17   | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025 | 167.72 - 173.2      | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725 | 240 - 285           | 3600 - 4400     | ( <sup>2</sup> ) |
| 13.36 - 13.41       | 322 - 335.4         |                 |                  |

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

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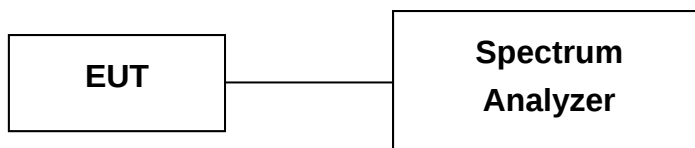
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### 5.3 Maximun Peak Output Power

|                               |                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b>      | FCC 15.247(b)<br>RSS-210 A 8.4(2)                                                                                                     |
| <b>Test Method:</b>           | ANSI C63.4:2003 and KDB DA00-705.                                                                                                     |
| <b>Method of Measurement:</b> | The EUT was setup to ANSI C63.4, 2003, tested to FHSS test procedure of KDB DA00-705 for compliance to FCC 47CFR 15.247 requirements. |
| <b>Detector:</b>              | RBW=1 MHz, VBW=3 MHz (Peak detector)                                                                                                  |
| <b>Test Mode:</b>             | Bluetooth in transmit mode without hopping                                                                                            |
| <b>Power Supply:</b>          | Lithium polymer battery 3.7V (The new battery be used during testing)                                                                 |
| <b>Test Date:</b>             | 05 August. 2010                                                                                                                       |
| <b>Temperature:</b>           | 25°C                                                                                                                                  |
| <b>Humidity:</b>              | 54%                                                                                                                                   |
| <b>Limit:</b>                 | Regulation 15.247 (b) The Limit of Maximum Peak Output Power Measurement is 30dBm.                                                    |

#### 5.3.1 Test Setup



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### 5.3.2 Measurement Data

For EUT communicating with GFSK Mode

| Chanel Frequency (GHz) | Peak Output Power(dBm) | Cable Loss (dB) | Power level(dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------|-----------------|------------------|-------------|-----------------|
| 2.402                  | -4.92                  | 0.5             | -4.42            | 30.00       | -34.42          |
| 2.447                  | -8.22                  | 0.5             | -7.72            | 30.00       | -37.72          |
| 2.480                  | -11.08                 | 0.5             | -10.58           | 30.00       | -40.58          |

For EUT communicating with Pi/4QPSK Mode

| Chanel Frequency (GHz) | Peak Output Power(dBm) | Cable Loss (dB) | Power level(dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------|-----------------|------------------|-------------|-----------------|
| 2.402                  | -4.64                  | 0.5             | -4.14            | 30.00       | -34.14          |
| 2.447                  | -7.73                  | 0.5             | -7.23            | 30.00       | -37.23          |
| 2.480                  | -10.55                 | 0.5             | -10.05           | 30.00       | -40.05          |

For EUT communicating with 8DPSK Mode

| Chanel Frequency (GHz) | Peak Output Power(dBm) | Cable Loss (dB) | Power level(dBm) | Limit (dBm) | Over Limit (dB) |
|------------------------|------------------------|-----------------|------------------|-------------|-----------------|
| 2.402                  | -4.37                  | 0.5             | -3.87            | 30.00       | -33.87          |
| 2.447                  | -7.21                  | 0.5             | -6.71            | 30.00       | -36.71          |
| 2.480                  | -8.25                  | 0.5             | -7.75            | 30.00       | -37.75          |

**Test result: The unit does meet the requirements.**

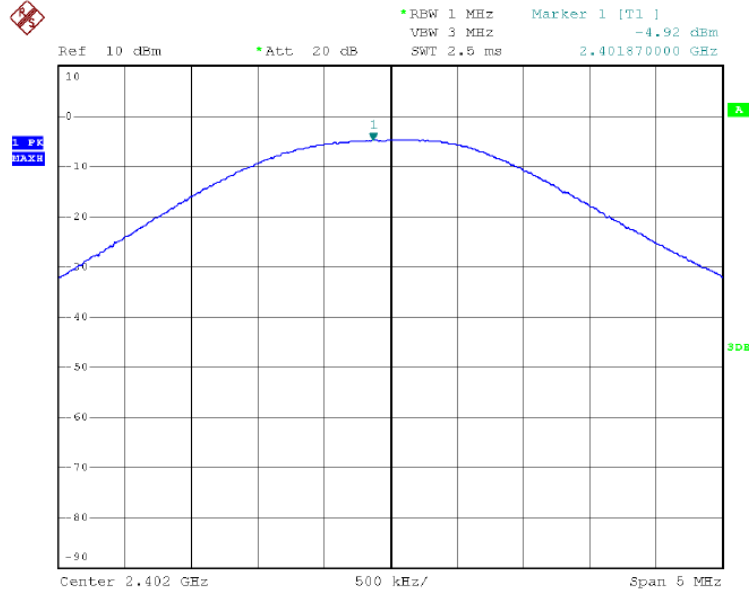
**Test result plot as follows:**

FCC ID: SOV 8300

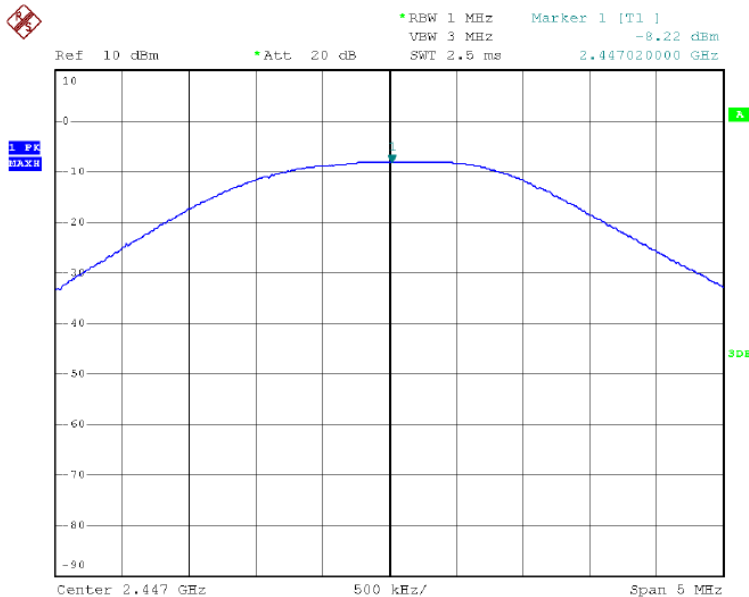
IC ID: 5511A-8300



**The EUT communicating with GFSK Mode**  
Lowest channel=2402MHz



**Middle channel=2447MHz**



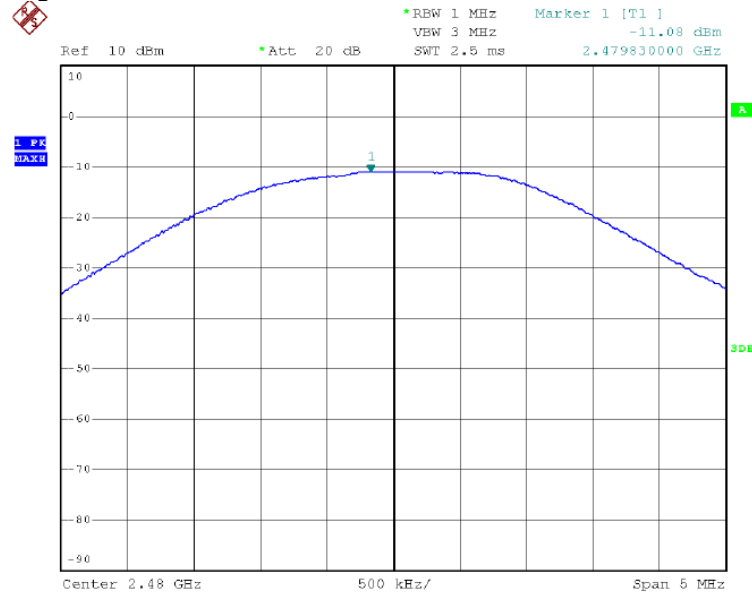
FCC ID: SOV 8300

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Highest channel=2480MHz



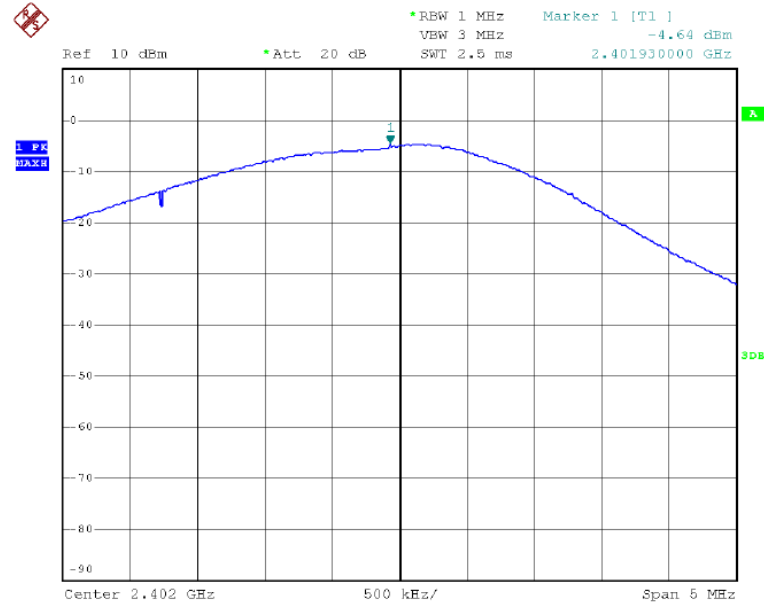
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IC ID: 5511A-8300

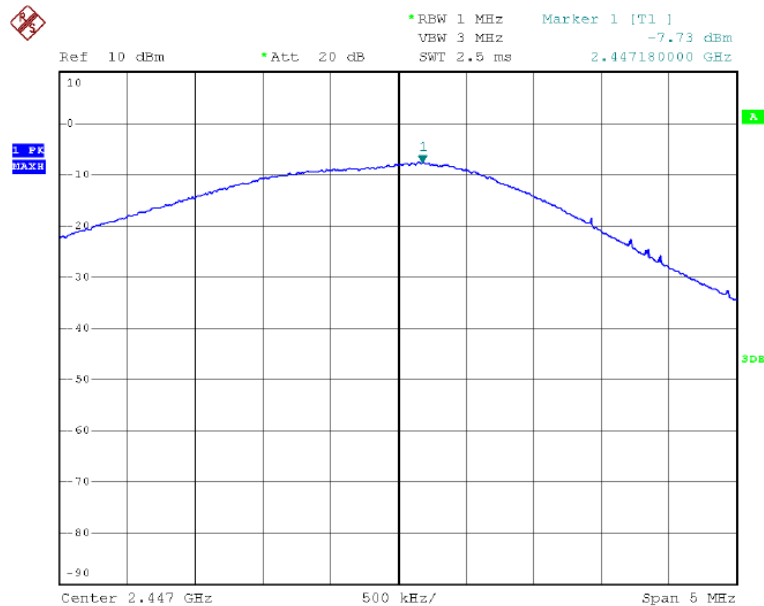
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**The EUT communicating with Pi/4QPSK Mode**  
Lowest channel=2402MHz



Middle channel=2447MHz



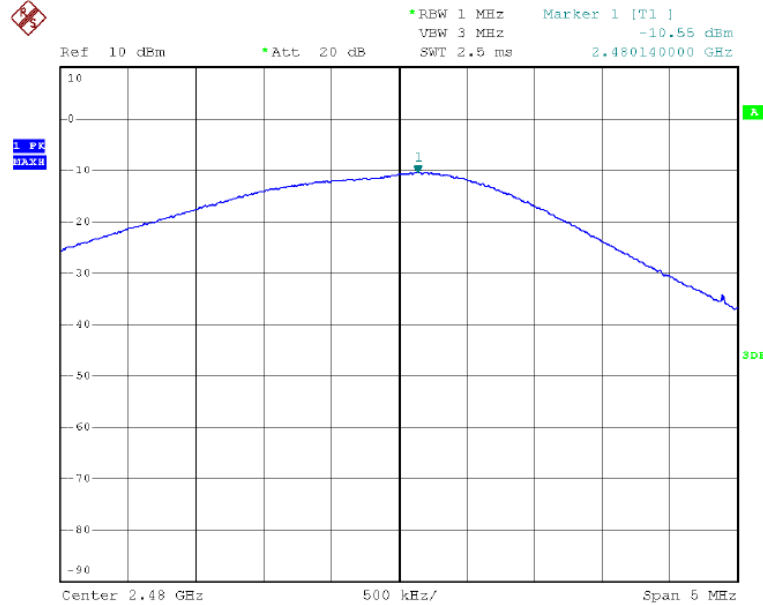
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Highest channel=2480MHz



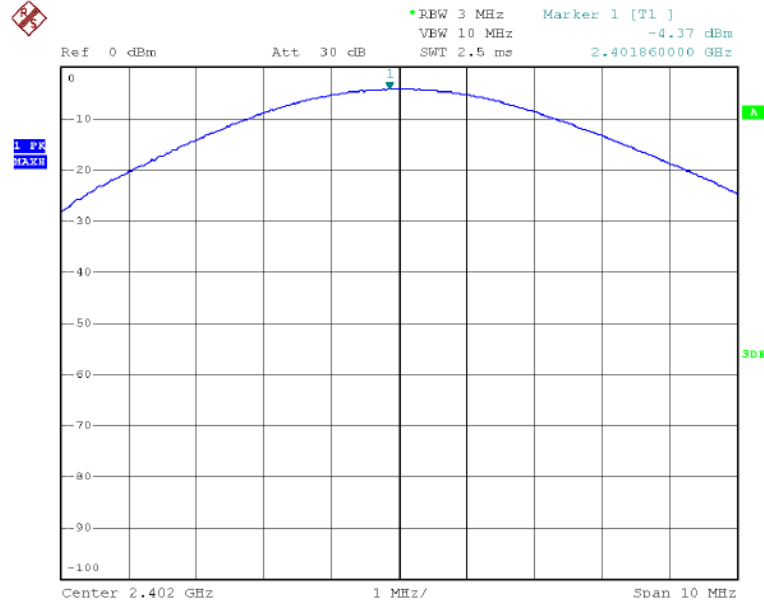
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IC ID: 5511A-8300

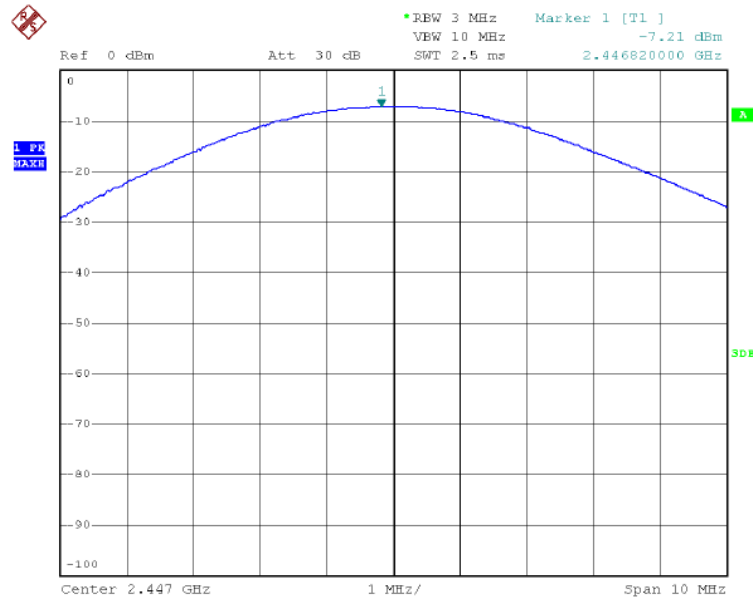
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**The EUT communicating with 8DPSK Mode**  
Lowest channel=2402MHz



Middle channel=2447MHz



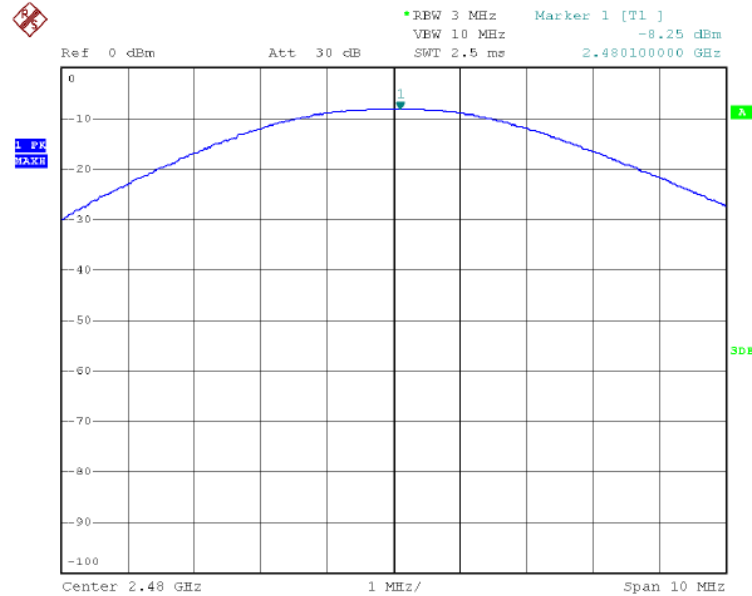
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Highest channel=2480MHz



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## 5.4 20dB Occupied Bandwidth

**Test Requirement:** FCC 15.247(b)  
RSS-210 A 8.1(b)

**Test Method:** ANSI C63.4:2003 and KDB DA00-705.

**Method of Measurement:** The EUT was setup to ANSI C63.4, 2003, tested to FHSS test procedure of KDB DA00-705 for compliance to FCC 47CFR 15.247 requirements.

**Detector:** RBW=30kHz, VBW=100kHz (Peak detector)

**Test Mode:** Bluetooth in transmit mode without hopping

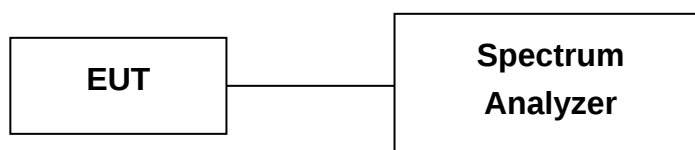
**Test Date:** 05 August. 2010

**Temperature:** 24°C

**Humidity:** 55%

**Limit:** N/A

### 5.4.1 Test Setup



### 5.4.2 Measurement Data

| Chanel Frequency (GHz) | 20 dB Occupy Bandwidth(MHz) |          |       |
|------------------------|-----------------------------|----------|-------|
|                        | GFSK                        | Pi/4QPSK | 8DPSK |
| 2.402                  | 0.908                       | 0.912    | 1.128 |
| 2.447                  | 0.908                       | 0.900    | 1.128 |
| 2.480                  | 0.948                       | 0.916    | 1.124 |

**Test result:** The unit does meet the requirements.

**Test result plot as follows:**

FCC ID: SOV 8300

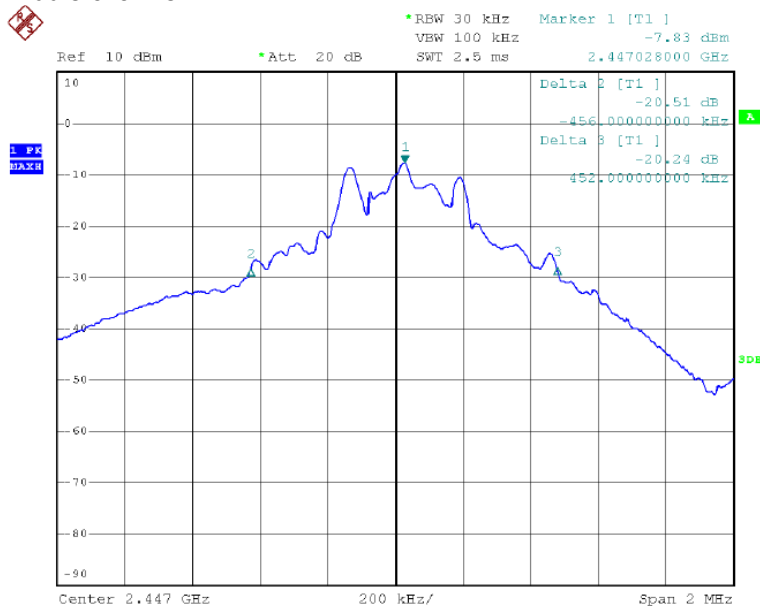
IC ID: 5511A-8300

## The EUT communicating with GFSK Mode

Lowest channel=2402MHz



Middle channel=2447MHz



FCC ID: SOV 8300

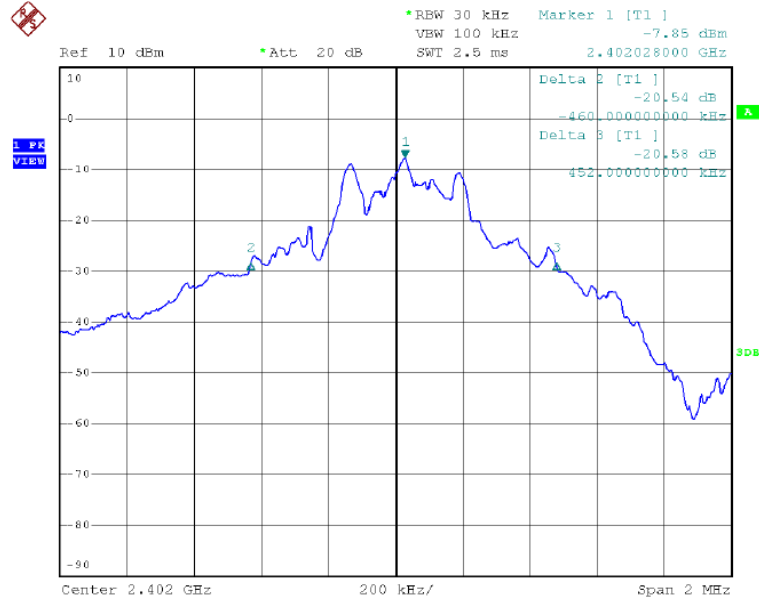
IC ID: 5511A-8300

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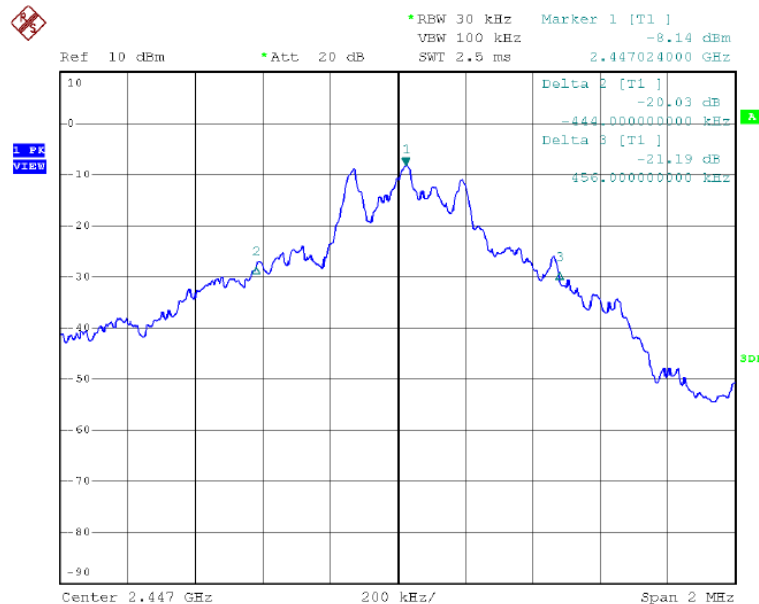
**Shenzhen EBO Technology Co., Ltd.**



**The EUT communicating with Pi/4QPSK Mode**  
Lowest channel=2402MHz



**Middle channel=2447MHz**



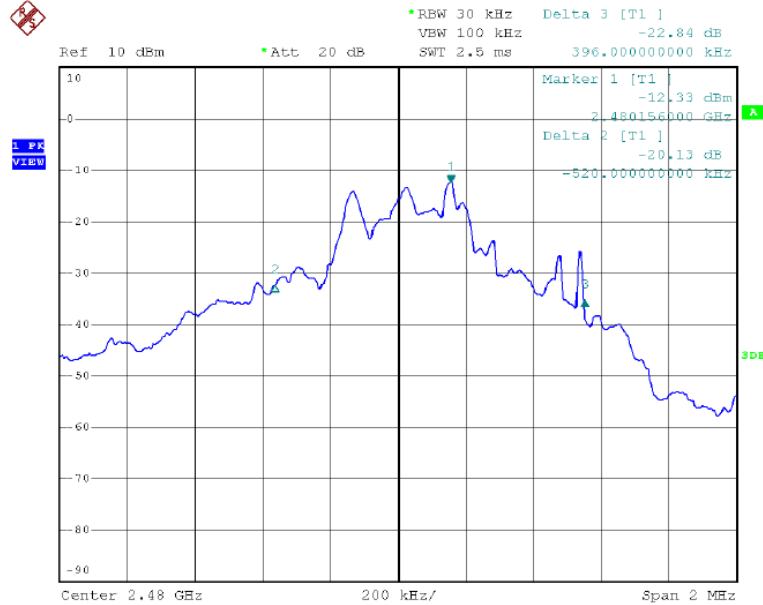
FCC ID: SOV 8300

IC ID: 5511A-8300

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Highest channel=2480MHz



FCC ID: SOV 8300

IC ID: 5511A-8300

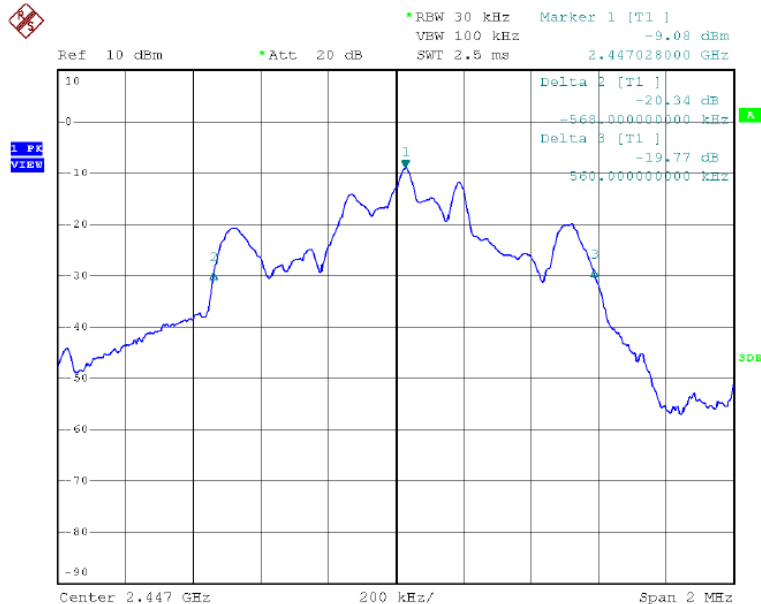
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**The EUT communicating with 8DPSK Mode**  
Lowest channel=2402MHz



**Middle channel=2447MHz**



FCC ID: SOV 8300

IC ID: 5511A-8300

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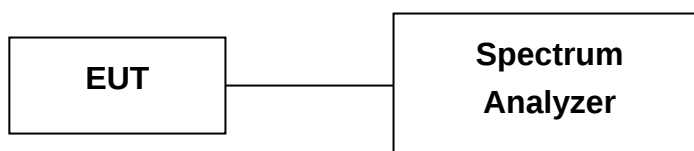




## 5.5 99% Occupied Bandwidth

**Test Requirement:** RSS-Gen Section 4.6.1  
**Test Method:** ANSI C63.4:2003  
**Detector:** RBW=30kHz, VBW=100kHz (Peak detector)  
**Test Mode:** Bluetooth in transmit mode without hopping  
**Test Date:** 05 August. 2010  
**Temperature:** 24°C  
**Humidity:** 56%  
**Limit:** N/A

### 5.5.1 Test Setup



### 5.5.2 Measurement Data

| Chanel Frequency (GHz) | 99%Occupy Bandwidth(MHz) |          |       |
|------------------------|--------------------------|----------|-------|
|                        | GFSK                     | Pi/4QPSK | 8DPSK |
| 2.402                  | 0.888                    | 0.984    | 1.080 |
| 2.447                  | 0.980                    | 0.948    | 1.088 |
| 2.480                  | 1.108                    | 0.996    | 1.076 |

**Test result: The unit does meet the requirements.**

**Test result plot as follows:**

FCC ID: SOV 8300

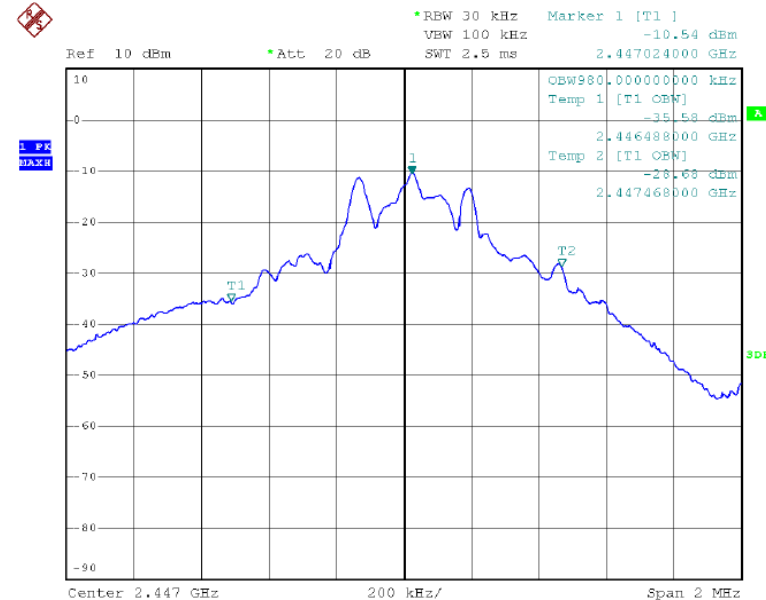
IC ID: 5511A-8300



**The EUT communicating with GFSK Mode**  
Lowest channel=2402MHz



**Middle channel=2447MHz**



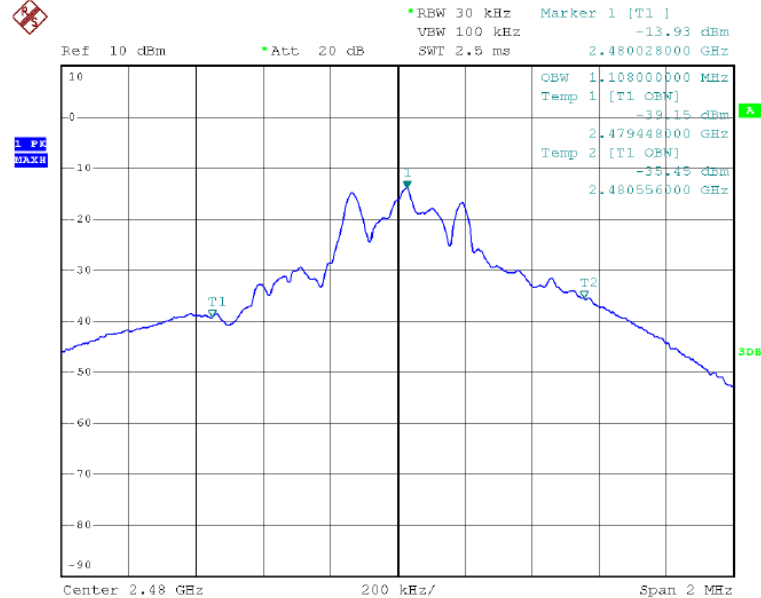
FCC ID: SOV 8300

IC ID: 5511A-8300

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Highest channel=2480MHz



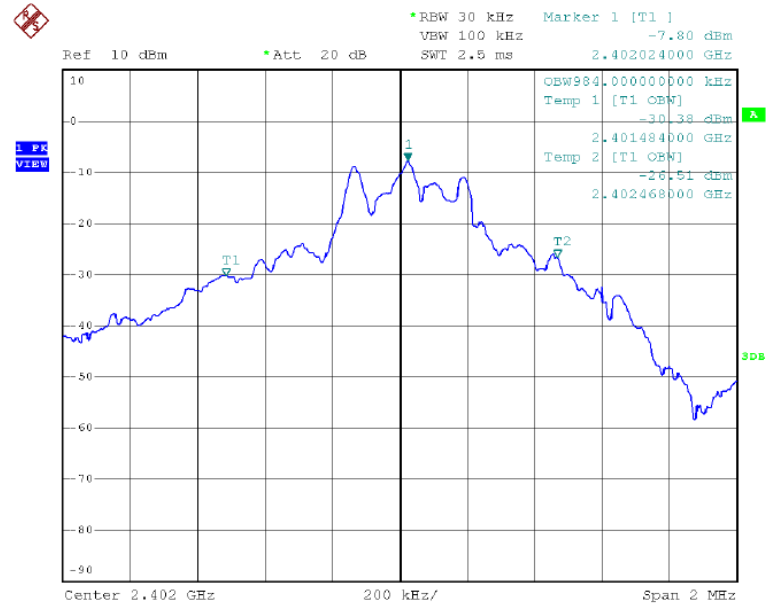
FCC ID: SOV 8300

IC ID: 5511A-8300

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The EUT communicating with Pi/4QPSK Mode  
Lowest channel=2402MHz



Middle channel=2447MHz



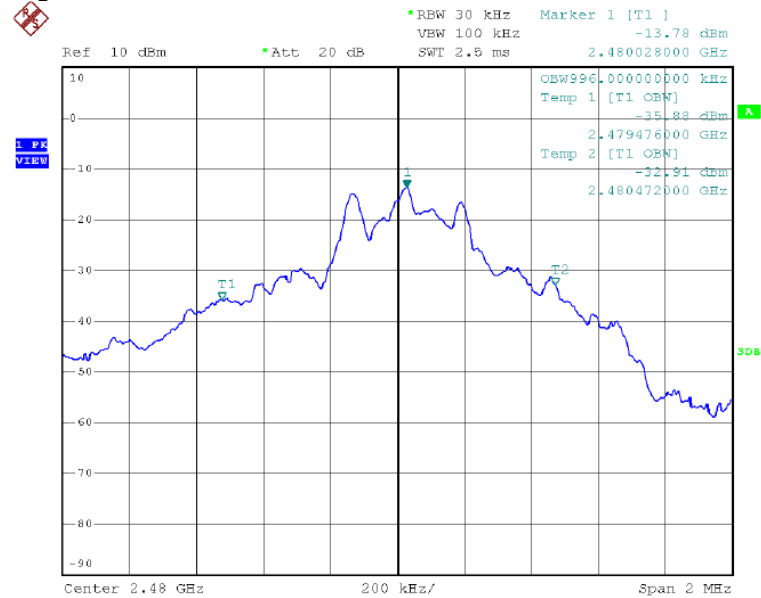
FCC ID: SOV 8300

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Highest channel=2480MHz



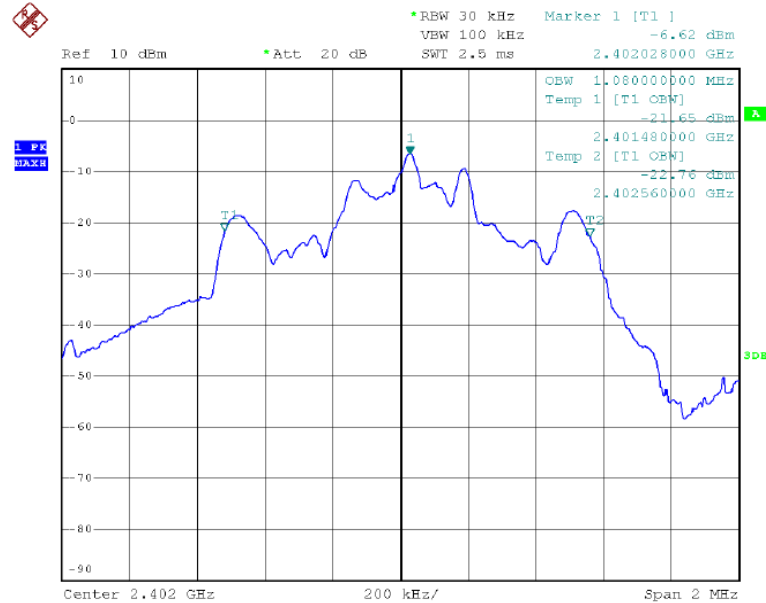
FCC ID: SOV 8300

IC ID: 5511A-8300

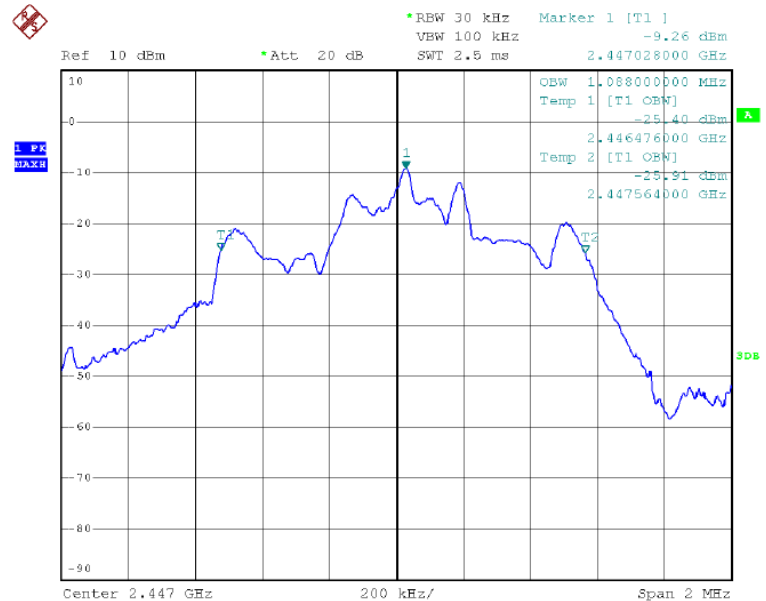
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**The EUT communicating with 8DPSK Mode**  
Lowest channel=2402MHz



**Middle channel=2447MHz**



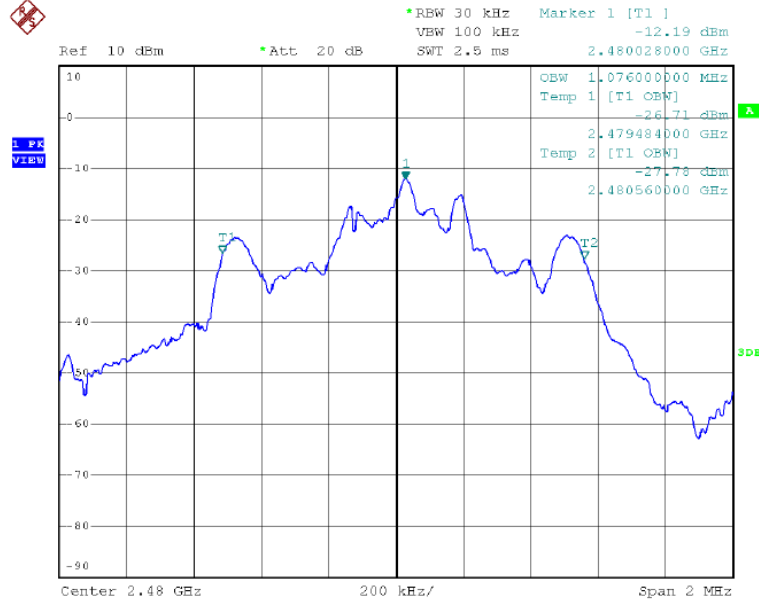
FCC ID: SOV 8300

IC ID: 5511A-8300

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Highest channel=2480MHz



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## 5.6 Carrier Frequency Separation

**Test Requirement:** FCC 15.247(a)(1)  
RSS-210 A 8.1(b)

**Test Method:** ANSI C63.4:2003 and KDB DA00-705

**Detector:** RBW=30kHz,VBW=100 KHz (Peak detector)

**Test Mode:** Blue tooth transmit with hopping mode

**Test Date:** 10 August. 2010

**Temperature:** 24°C

**Humidity:** 51%

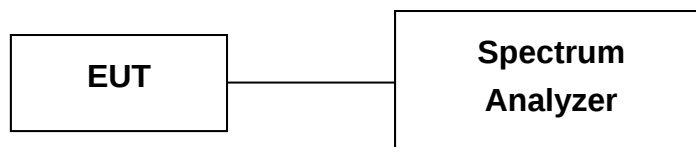
**Limit:**  $\geq 0.025\text{MHz}$  or 2/3 of the 20dB bandwidth (whichever is greater)

According to section 5.4

| Mode     | 20dB bandwidth (MHz)<br>(worse case) | Limit(MHz)<br>(Carrier Frequencies Separation) |
|----------|--------------------------------------|------------------------------------------------|
| GFSK     | 0.948                                | 0.632                                          |
| Pi/4QPSK | 0.916                                | 0.611                                          |
| 8DPSK    | 1.128                                | 0.752                                          |

The limit is 0.752MHz.

### 5.6.1 Test Setup



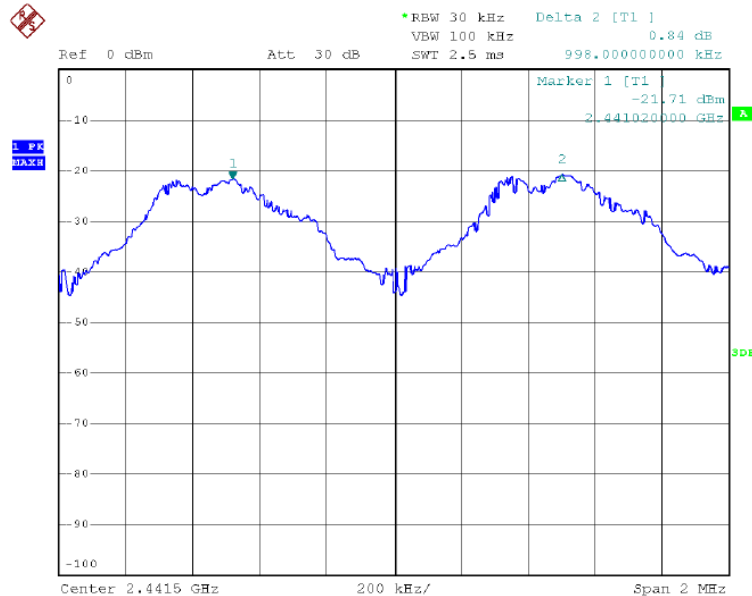
FCC ID: SOV 8300

IC ID: 5511A-8300



## 5.6.2 Measurement Data

Pre-scan the EUT in GFSK, Pi/4QPSK and 8DPSK modes and find out the worst case is GFSK mode.



The minimum value of Carrier Frequencies Separation test is 0.998MHz>0.752MHz

**Test result: The unit does meet the requirements.**

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IC ID: 5511A-8300

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## 5.7 Number of Hopping Frequencies

**Test Requirement:** FCC 15.247(b)  
RSS-210 A 8.4 (2)

**Test Method:** ANSI C63.4:2003 and KDB DA00-705.

**Method of Measurement:** The EUT was setup to ANSI C63.4, 2003, tested to FHSS test procedure of KDB DA00-705 for compliance to FCC 47CFR 15.247 requirements.

**Detector:** RBW=100kHz, VBW=300kHz (Peak detector)

**Test Mode:** Bluetooth in transmit with hopping mode

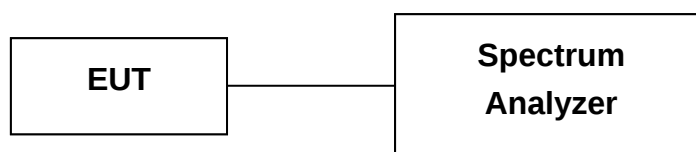
**Test Date:** 12 August. 2010

**Temperature:** 25°C

**Humidity:** 56%

**Limit:** At least 75 channels

### 5.7.1 Test Setup



### 5.7.2 Measurement Data

Pre-Scan has been conducted to determine the worst-case mode from all possible

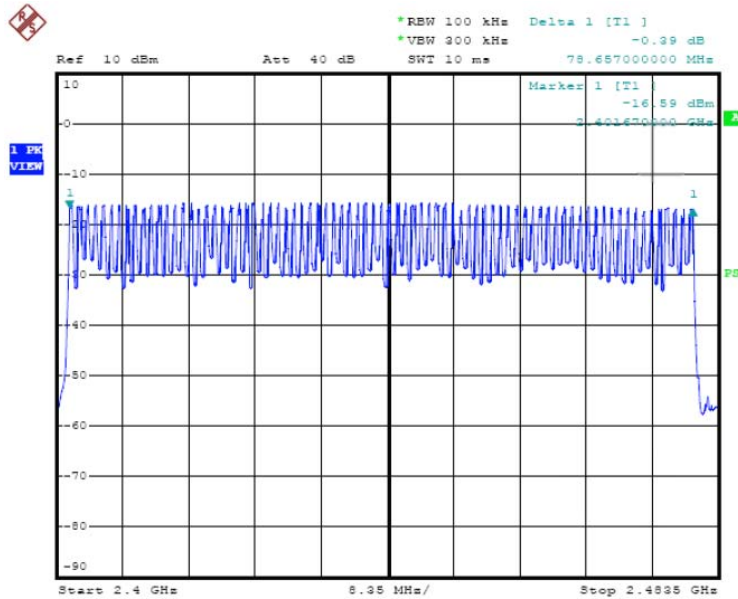
| Hopping channels numbers | Limit |
|--------------------------|-------|
| 79                       | 75    |

**Test result:** The unit does meet the requirements.

**Test result plot as follows:**

FCC ID: SOV 8300

IC ID: 5511A-8300



FCC ID: SOV 8300

IC ID: 5511A-8300

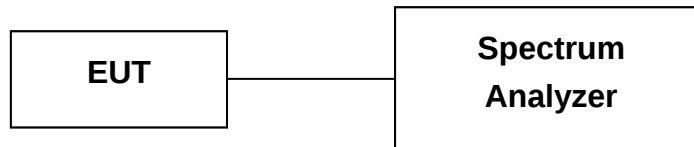
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## 5.8 Time of Occupy (Dwell Time)

|                        |                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | FCC 15.247(a)(1)<br>RSS-210 A 8.1(d)                                                                                                  |
| Test Method:           | ANSI C63.4:2003 and KDB DA00-705.                                                                                                     |
| Method of Measurement: | The EUT was setup to ANSI C63.4, 2003, tested to FHSS test procedure of KDB DA00-705 for compliance to FCC 47CFR 15.247 requirements. |
| Detector:              | RBW=1MHz,VBW=3MHz (Peak detector); Span=0                                                                                             |
| Test Mode:             | Blue tooth transmit mode with hopping                                                                                                 |
| Test Date:             | 12 August. 2010                                                                                                                       |
| Temperature:           | 24℃                                                                                                                                   |
| Humidity:              | 56%                                                                                                                                   |
| Limit:                 | ≤0.4Second                                                                                                                            |

### 5.8.1 Test Setup



### 5.8.2 Measurement Data

Pre-Scan has been conducted to determine the worst-case mode from all possible, found that the duty cycle is same in the follow several types.

| Packet          | Dwell time(second) | Limti(second) |
|-----------------|--------------------|---------------|
| DH1,2-DH1,3-DH1 | 0.0510             | 0.4           |
| DH3,2-DH3,3-DH3 | 0.0344             | 0.4           |
| DH5,2-DH5,3-DH5 | 0.2459             | 0.4           |

The test period:  $T=0.4\text{Second/channel} \times 79 \text{ channel}=31.6 \text{ s}$

DH1, 2DH1,3DH1 time slot =  $0.16\text{ms} \times [1600/(2 \times 79)] \times 31.6=51.2 \text{ ms}$

DH3, 2DH3,3DH3 time slot =  $0.215\text{ms} \times [1600/(4 \times 79)] \times 31.6=34.4 \text{ ms}$

DH5, 2DH5,3DH5 time slot =  $2.305\text{ms} \times [1600/(6 \times 79)] \times 31.6=245.9\text{ms}$

**Test result: The unit does meet the requirements.**

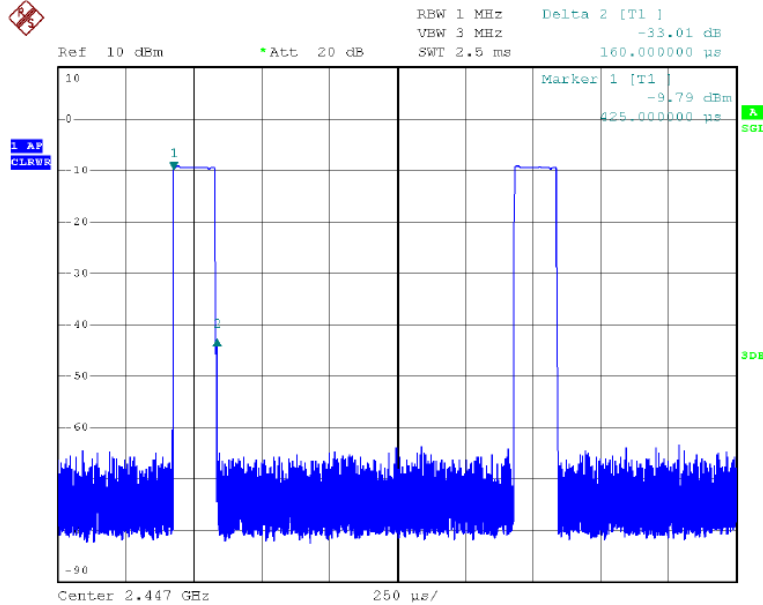
**Test result plots as follows:**

FCC ID: SOV 8300

IC ID: 5511A-8300



GFSK, Pi/4QPSK and 8DPSK mode with DH1,2-DH1,and 3-DH1 test packet.



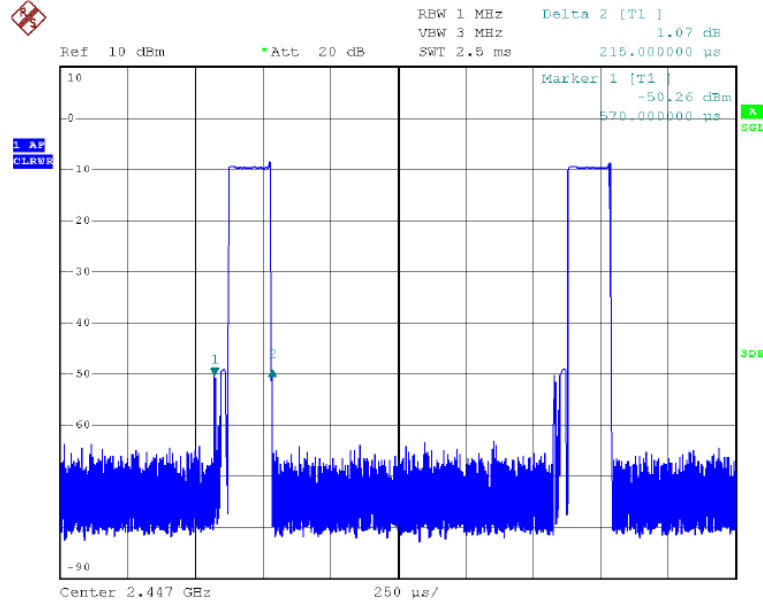
FCC ID: SOV 8300

IC ID: 5511A-8300

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GFSK, Pi/4QPSK and 8DPSK mode with DH3,2-DH3,and 3-DH3 test packet.



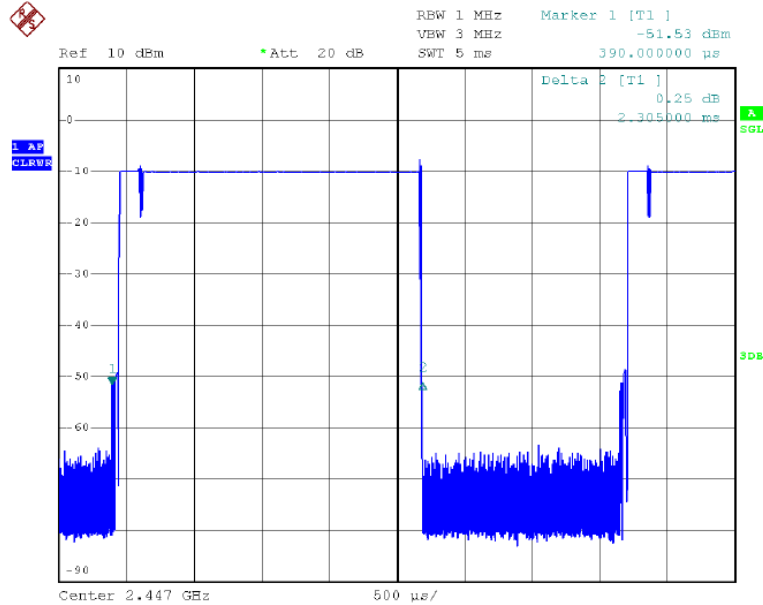
FCC ID: SOV 8300

IC ID: 5511A-8300

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GFSK, Pi/4QPSK and 8DPSK mode with DH5,2-DH5,and 3-DH5 test packet.



FCC ID: SOV 8300

IC ID: 5511A-8300

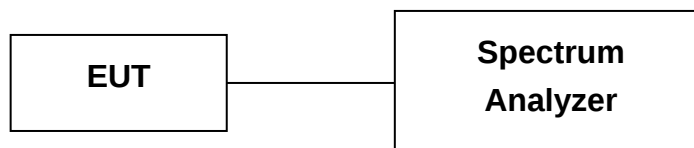
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## 5.9 Band Edge and Conducted spurious emissions Measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.247(d)<br>RSS-210 A 8.5                                                                                                                                                                                                                                                                                                                                                       |
| Test Method:      | ANSI C63.4; FCC Part15 C Section 15.247,KDB DA00-705 for FHSS System                                                                                                                                                                                                                                                                                                                                  |
| Detector:         | RBW=100 KHz, VBW=300 KHz (Peak detector)                                                                                                                                                                                                                                                                                                                                                              |
| Test Mode:        | Bluetooth in transmit mode                                                                                                                                                                                                                                                                                                                                                                            |
| Test Date:        | 15 August. 2010                                                                                                                                                                                                                                                                                                                                                                                       |
| Temperature:      | 24 °C                                                                                                                                                                                                                                                                                                                                                                                                 |
| Humidity:         | 55%                                                                                                                                                                                                                                                                                                                                                                                                   |
| Limit:            | RSS-210 A 8.5 In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |

### 5.9.1 Test Setup



### 5.9.2 Measurement Data

Pre-scan the EUT in hopping and without hopping modes and find out the worst case is without hopping mode.

**Test result: The unit does meet the requirements.**

**Test result plot as follows:**

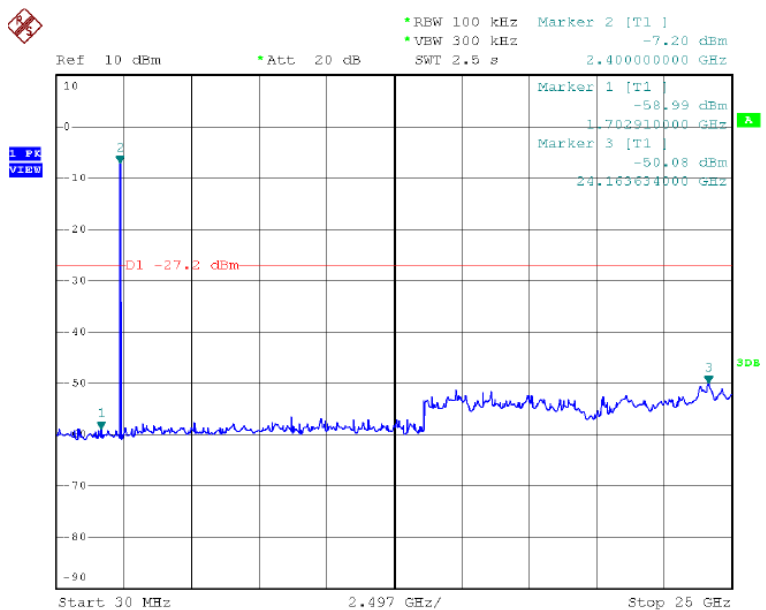
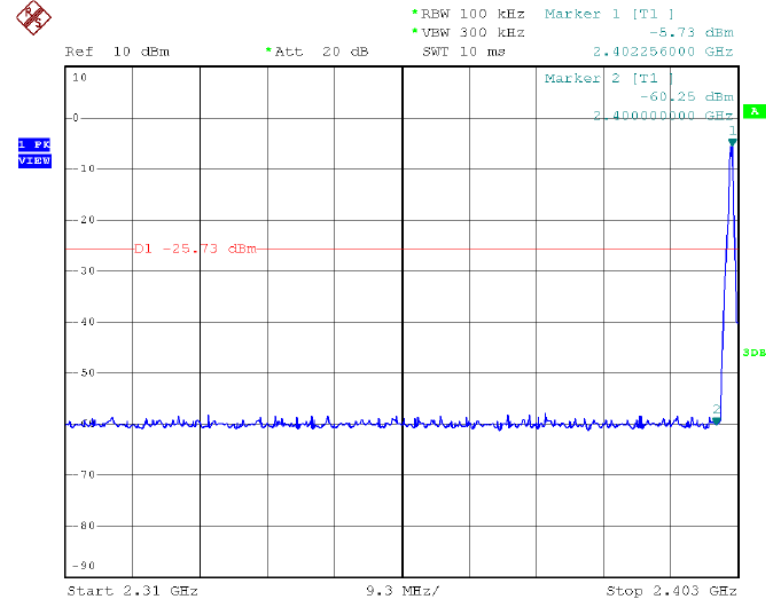
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IC ID: 5511A-8300

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Transmitting mode in lowest channel=2402MHz (GFSK)



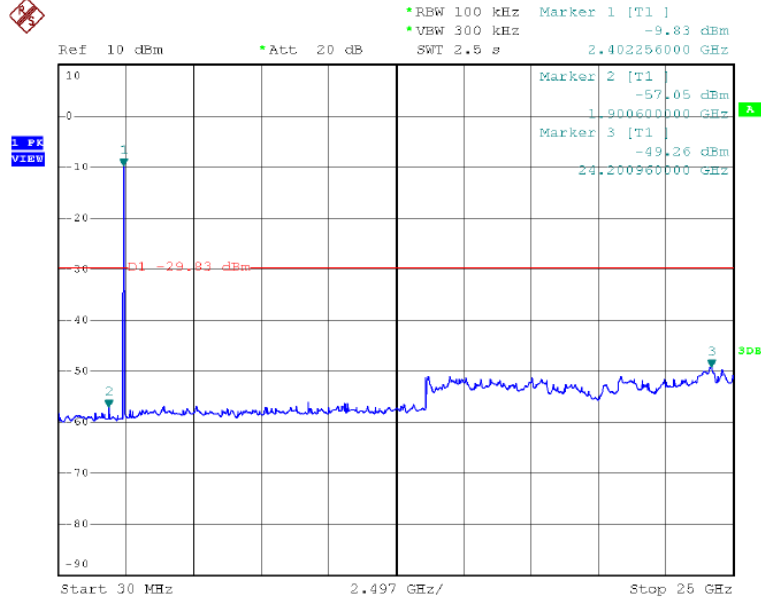
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Transmitting mode in middle channel=2447MHz (GFSK)



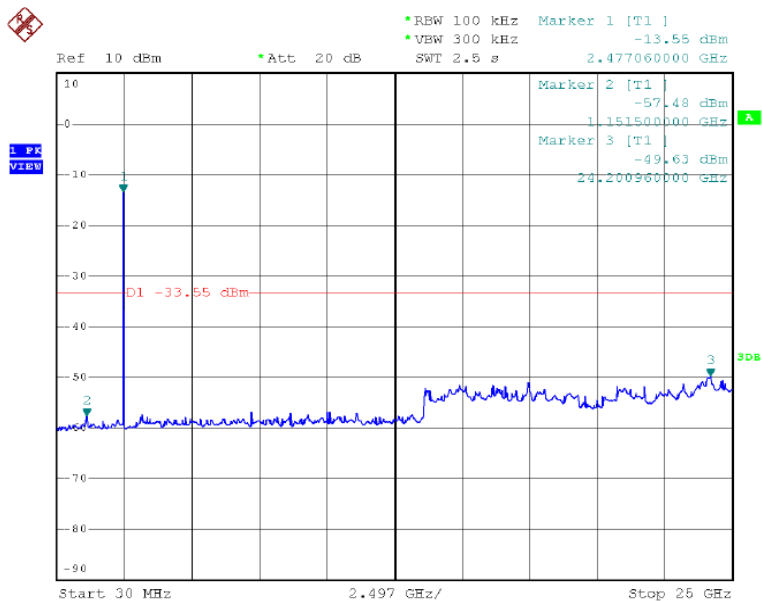
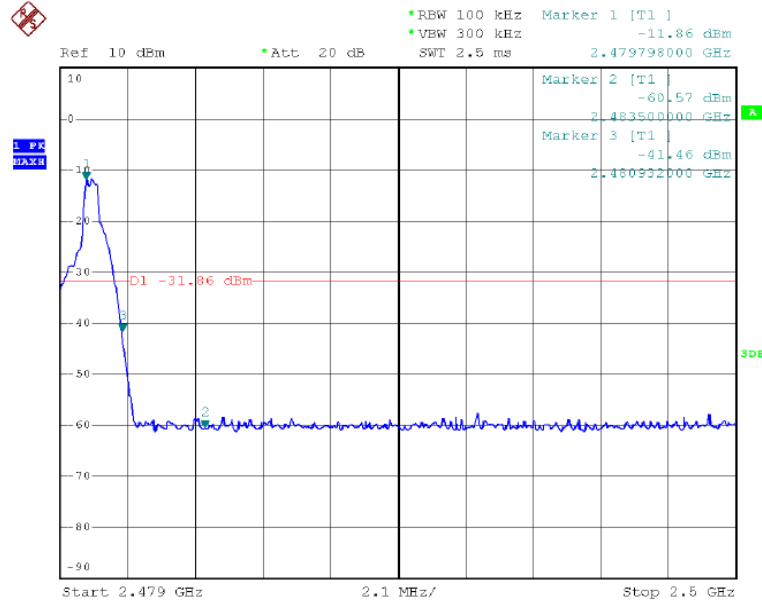
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Transmitting mode in highest channel=2480MHz (GFSK)



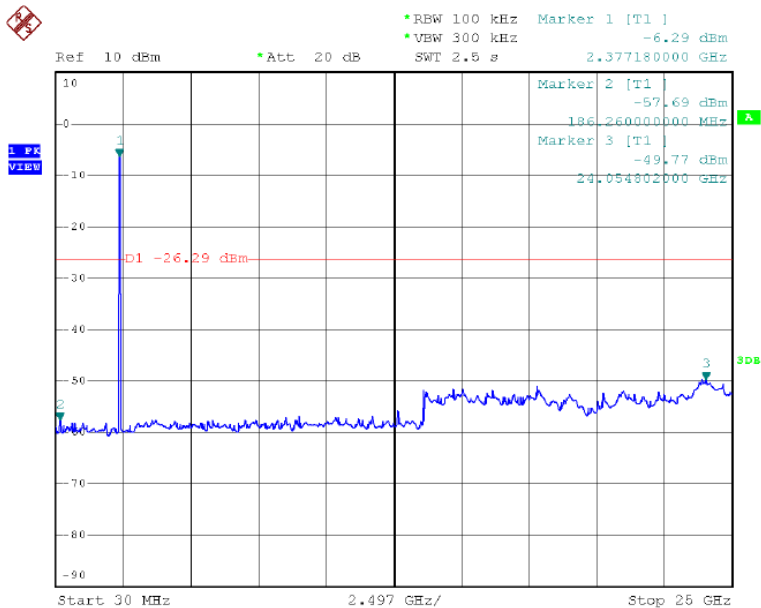
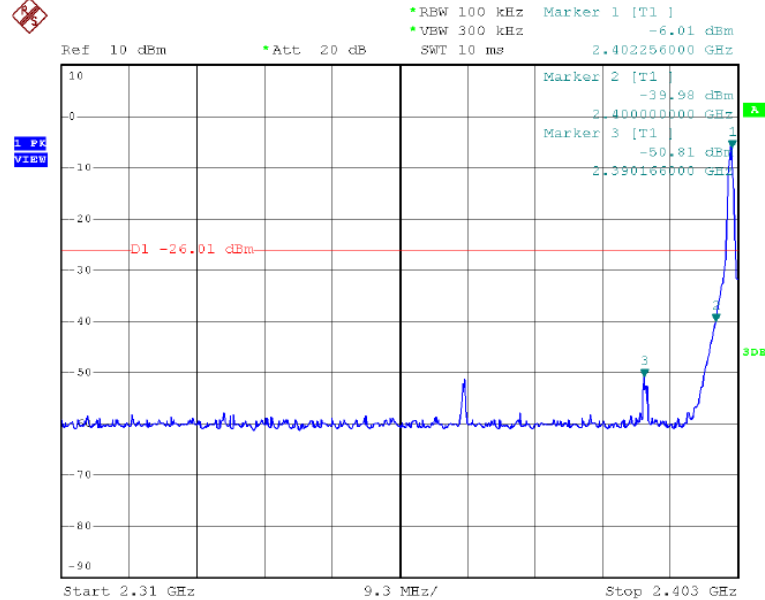
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Transmitting mode in lowest channel=2402MHz (Pi/4QPSK)



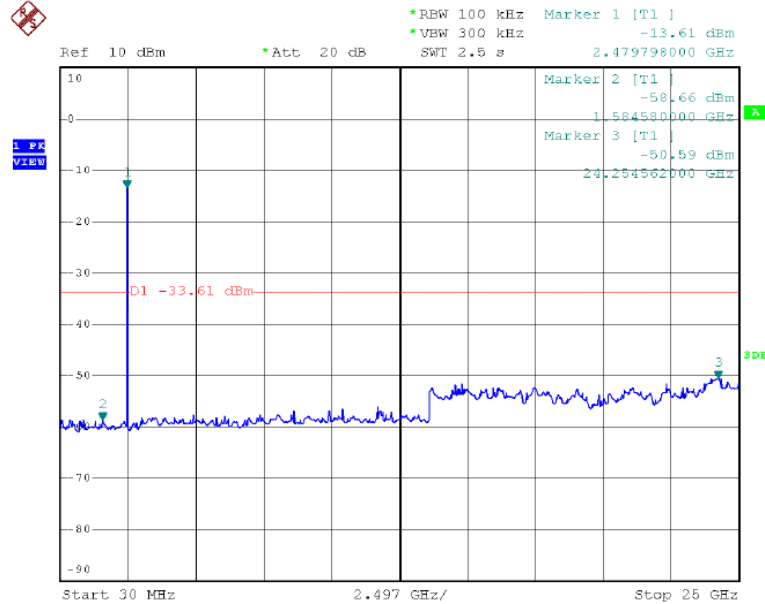
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Transmitting mode in middle channel=2447MHz (Pi/4QPSK)



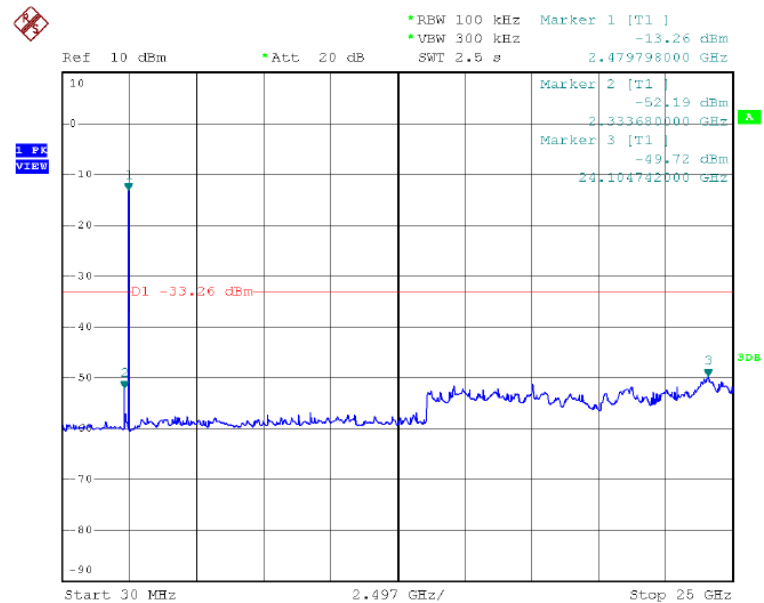
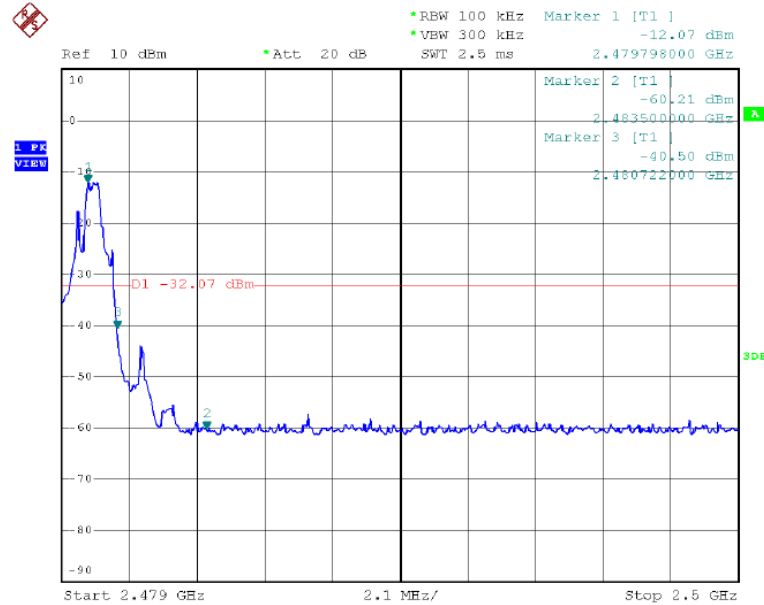
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Transmitting mode in highest channel=2480MHz (Pi/4QPSK)



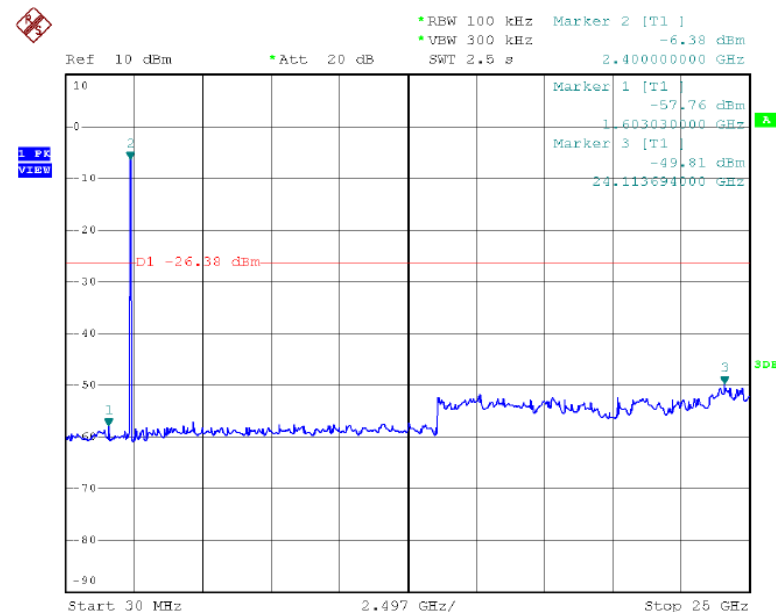
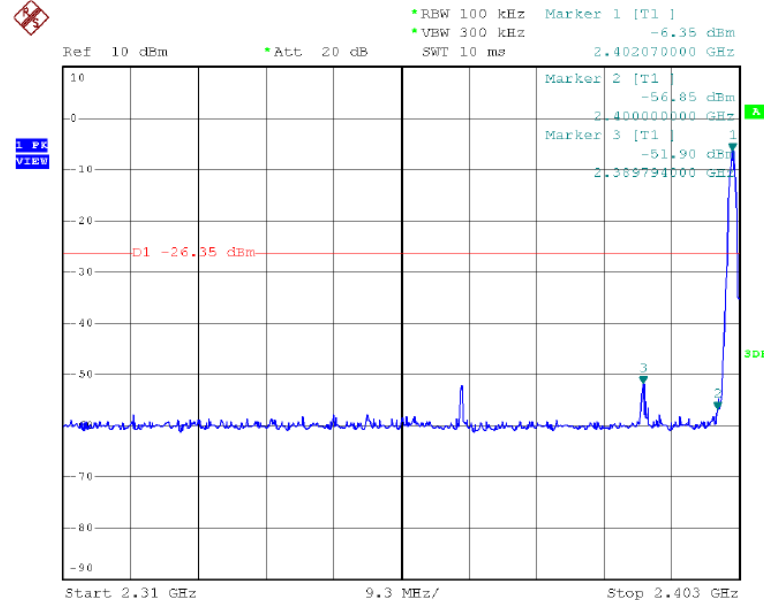
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Transmitting mode in lowest channel=2402MHz (8DPSK)



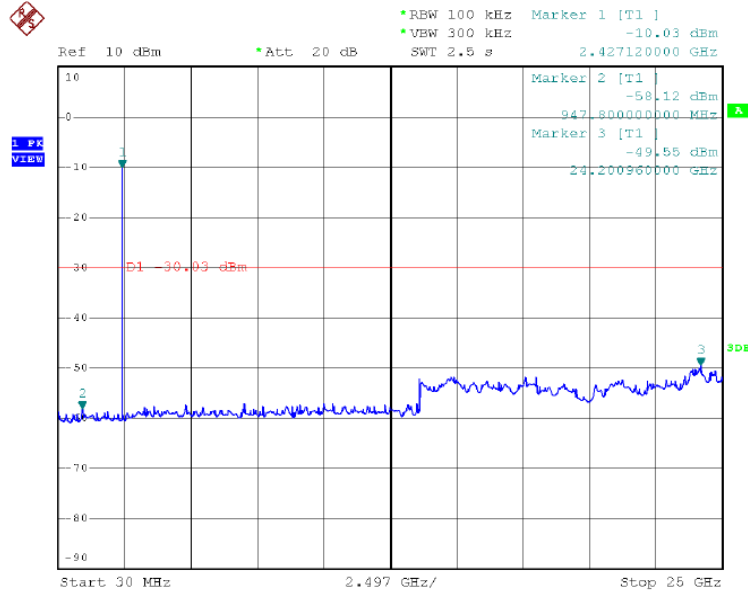
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Transmitting mode in middle channel=2447MHz (8DPSK)



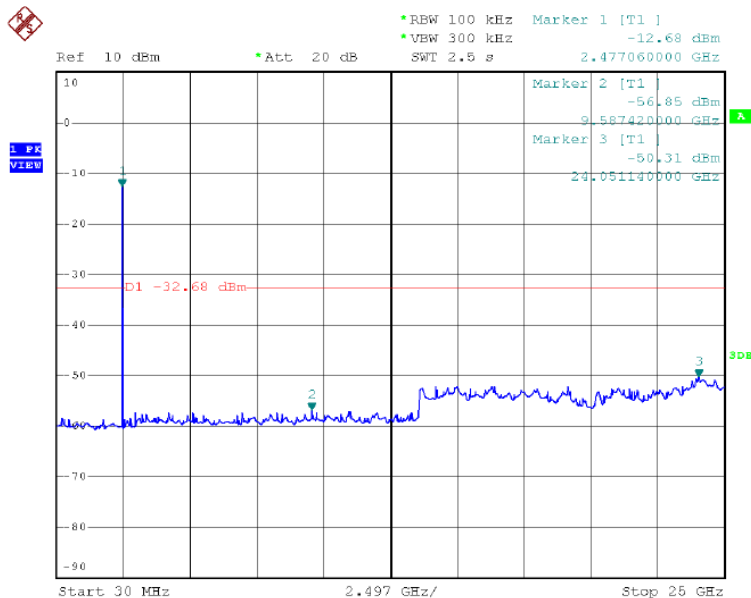
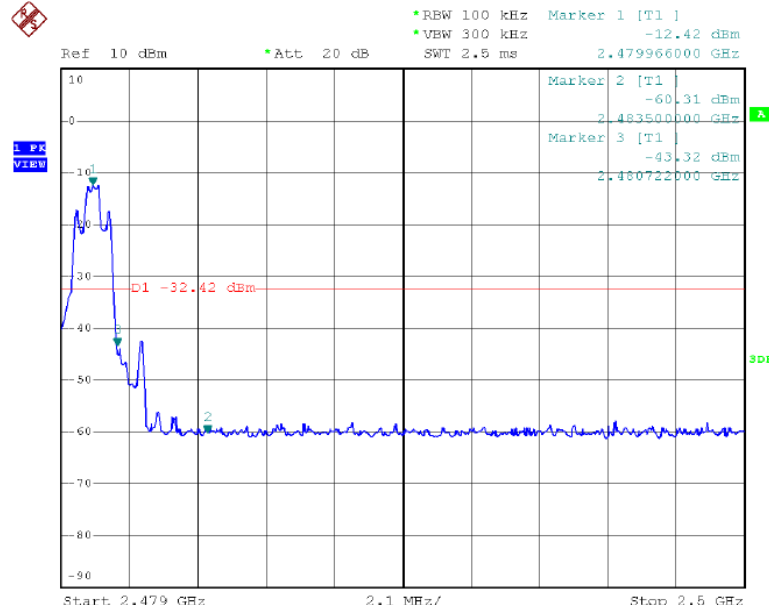
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Transmitting mode in highest channel=2480MHz (8DPSK)



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## 5.10 Antenna Requirement

### Standard requirement

15.203 requirement:

For intentional device. According to 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.

15.247(c) (1)(i) requirement:

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

### EUT Antenna

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

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## 5.11 RF Exposure Compliance

### Standard requirement

15.247(b)(4) requirement:

(4) 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.

RSS-102 Section 2.5.1 requirement:

above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use;

### EUT RF Exposure

The Max Conducted Peak Output Power is **-3.87dBm(0.410mW)** in the lowest channel (2.402GHz);

The best case gain of the antenna is 0dBi.

calculate the EIRP test result:

EIRP= 0.410mW ①

SAR requirement:

$S = 60 / f(\text{GHz}) = 60 / 2.402 = 24.98 \text{ mW}$  ② ;

① < 20mW < ②.

So the SAR report is not required.

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