

# FCC REPORT (BLE)

**Applicant:** AZUMI S.A

**Address of Applicant:** Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza,  
Piso 16 of. 16-01, Marbella, Ciudad de Panamá City, Rep.  
Panamá

**Equipment Under Test (EUT)**

Product Name: Mobile phone

Model No.: LT50+

Trade mark: Azumi

**FCC ID:** QRP-AZUMILT50P

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** 12 May, 2015

**Date of Test:** 13 May, to 15 Jun., 2015

**Date of report issued:** 15 Jun., 2015

**Test Result:** PASS \*

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

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | 15 Jun., 2015 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

**Prepared by:**

*Luna Gao*

**Date:**

*15 Jun., 2015*

**Report Clerk**

**Reviewed by:**

*Wimer Zhang*

**Date:**

*15 Jun., 2015*

**Project Engineer**

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## 4 Test Summary

| Test Item                        | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement              | 15.203/15.247 (c) | Pass   |
| AC Power Line Conducted Emission | 15.207            | Pass   |
| Conducted Peak Output Power      | 15.247 (b)(3)     | Pass   |
| 6dB Emission Bandwidth           | 15.247 (a)(2)     | Pass   |
| Power Spectral Density           | 15.247 (e)        | Pass   |
| Band Edge                        | 15.247(d)         | Pass   |
| Spurious Emission                | 15.205/15.209     | Pass   |

*Pass: The EUT complies with the essential requirements in the standard.*

## 5 General Information

### 5.1 Client Information

|                          |                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | AZUMI S.A                                                                                                                    |
| Address of Applicant:    | Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panamá City, Rep. Panamá |
| Manufacturer:            | AZUMI (HK) LTD                                                                                                               |
| Address of Manufacturer: | FLAT/RM 18 BLK 1 14/F GOLDEN INDUSTRIAL BUILDING 16-26 KWAI TAK STREET KWAI CHUNG                                            |
| Factory:                 | Heng Da Chuang Xin Technology Limited                                                                                        |
| Address of Factory       | Rm14H, Taibang Technology building, Hi-Tech Park South, Nanshan District , Shenzhen, China                                   |

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

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| Product Name:          | Mobile phone                                          |
| Model No.:             | LT50+                                                 |
| Operation Frequency:   | 2402-2480 MHz                                         |
| Channel numbers:       | 40                                                    |
| Channel separation:    | 2 MHz                                                 |
| Modulation technology: | GFSK                                                  |
| Data speed :           | 1Mbps                                                 |
| Antenna Type:          | Internal Antenna                                      |
| Antenna gain:          | -1 dBi                                                |
| Power supply:          | Rechargeable Li-ion Battery DC3.8V-2000mAh            |
| AC adapter:            | Input:100-240V AC,50/60Hz 0.2A<br>Output:5V DC MAX 1A |

| Operation Frequency each of channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0                                   | 2402MHz   | 10      | 2422MHz   | 20      | 2442MHz   | 30      | 2462MHz   |
| 1                                   | 2404MHz   | 11      | 2424MHz   | 21      | 2444MHz   | 31      | 2464MHz   |
| 2                                   | 2406MHz   | 12      | 2426MHz   | 22      | 2446MHz   | 32      | 2466MHz   |
| 3                                   | 2408MHz   | 13      | 2428MHz   | 23      | 2448MHz   | 33      | 2468MHz   |
| 4                                   | 2410MHz   | 14      | 2430MHz   | 24      | 2450MHz   | 34      | 2470MHz   |
| 5                                   | 2412MHz   | 15      | 2432MHz   | 25      | 2452MHz   | 35      | 2472MHz   |
| 6                                   | 2414MHz   | 16      | 2434MHz   | 26      | 2454MHz   | 36      | 2474MHz   |
| 7                                   | 2416MHz   | 17      | 2436MHz   | 27      | 2456MHz   | 37      | 2476MHz   |
| 8                                   | 2418MHz   | 18      | 2438MHz   | 28      | 2458MHz   | 38      | 2478MHz   |
| 9                                   | 2420MHz   | 19      | 2440MHz   | 29      | 2460MHz   | 39      | 2480MHz   |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2442MHz   |
| The Highest channel | 2480MHz   |

## 5.3 Test environment and mode

| Operating Environment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24.0 °C                                                 |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 54 % RH                                                 |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1010 mbar                                               |
| Test mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         |
| Operation mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Keep the EUT in continuous transmitting with modulation |
| <p>The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.</p> |                                                         |

## 5.4 Description of Support Units

|     |
|-----|
| N/A |
|-----|

## 5.5 Laboratory Facility

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> <li> <b>FCC - Registration No.: 817957</b><br/> Shenzhen Zhongjian Nanfang Testing 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 out files. Registration 817957, February 27, 2012. </li> <li> <b>IC - Registration No.: 10106A-1</b><br/> The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. </li> <li> <b>CNAS - Registration No.: CNAS L6048</b><br/> Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048. </li> </ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 5.6 Laboratory Location

|                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Shenzhen Zhongjian Nanfang Testing Co., Ltd.<br/> Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,<br/> Bao'an District, Shenzhen, Guangdong, China<br/> Tel: +86-755-23118282<br/> Fax: +86-755-23116366</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 5.7 Test Instruments list

| Radiated Emission: |                                      |                                   |                             |               |                      |                          |
|--------------------|--------------------------------------|-----------------------------------|-----------------------------|---------------|----------------------|--------------------------|
| Item               | Test Equipment                       | Manufacturer                      | Model No.                   | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 1                  | 3m Semi- Anechoic Chamber            | SAEMC                             | 9(L)*6(W)* 6(H)             | CCIS0001      | 08-23-2014           | 08-22-2017               |
| 2                  | BiConiLog Antenna                    | SCHWARZBECK<br>MESS-ELEKTRONIK    | VULB9163                    | CCIS0005      | 03-28-2015           | 03-28-2016               |
| 3                  | Double -ridged waveguide horn        | SCHWARZBECK<br>MESS-ELEKTRONIK    | BBHA9120D                   | CCIS0006      | 03-28-2015           | 03-28-2016               |
| 4                  | EMI Test Software                    | AUDIX                             | E3                          | N/A           | N/A                  | N/A                      |
| 5                  | Amplifier (10kHz-1.3GHz)             | HP                                | 8447D                       | CCIS0003      | 04-01-2015           | 03-31-2016               |
| 6                  | Amplifier (1GHz-18GHz)               | Compliance Direction Systems Inc. | PAP-1G18                    | CCIS0011      | 04-01-2015           | 03-31-2016               |
| 7                  | Pre-amplifier (18-26GHz)             | Rohde & Schwarz                   | AFS33-18002<br>650-30-8P-44 | GTS218        | 04-01-2015           | 03-31-2016               |
| 8                  | Horn Antenna                         | ETS-LINDGREN                      | 3160                        | GTS217        | 04-01-2015           | 03-31-2016               |
| 9                  | Printer                              | HP                                | HP LaserJet P1007           | N/A           | N/A                  | N/A                      |
| 10                 | Positioning Controller               | UC                                | UC3000                      | CCIS0015      | N/A                  | N/A                      |
| 11                 | Spectrum analyzer 9k-30GHz           | Rohde & Schwarz                   | FSP                         | CCIS0023      | 03-28-2015           | 03-28-2016               |
| 12                 | EMI Test Receiver                    | Rohde & Schwarz                   | ESPI                        | CCIS0022      | 03-28-2015           | 03-28-2016               |
| 13                 | Loop antenna                         | Laplace instrument                | RF300                       | EMC0701       | 04-01-2015           | 03-31-2016               |
| 14                 | Universal radio communication tester | Rhode & Schwarz                   | CMU200                      | CCIS0069      | 03-28-2015           | 03-28-2016               |
| 15                 | Signal Analyzer                      | Rohde & Schwarz                   | FSIQ3                       | CCIS0088      | 04-08-2015           | 04-08-2016               |

| Conducted Emission: |                   |                    |                       |               |                      |                          |
|---------------------|-------------------|--------------------|-----------------------|---------------|----------------------|--------------------------|
| Item                | Test Equipment    | Manufacturer       | Model No.             | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 1                   | Shielding Room    | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061      | 11-10-2012           | 11-09-2015               |
| 2                   | EMI Test Receiver | Rohde & Schwarz    | ESCI                  | CCIS0002      | 03-28-2015           | 03-28-2016               |
| 3                   | LISN              | CHASE              | MN2050D               | CCIS0074      | 03-28-2015           | 03-28-2016               |
| 4                   | Coaxial Cable     | CCIS               | N/A                   | CCIS0086      | 04-01-2015           | 03-31-2016               |
| 5                   | EMI Test Software | AUDIX              | E3                    | N/A           | N/A                  | N/A                      |

## 6 Test results and Measurement Data

### 6.1 Antenna requirement:

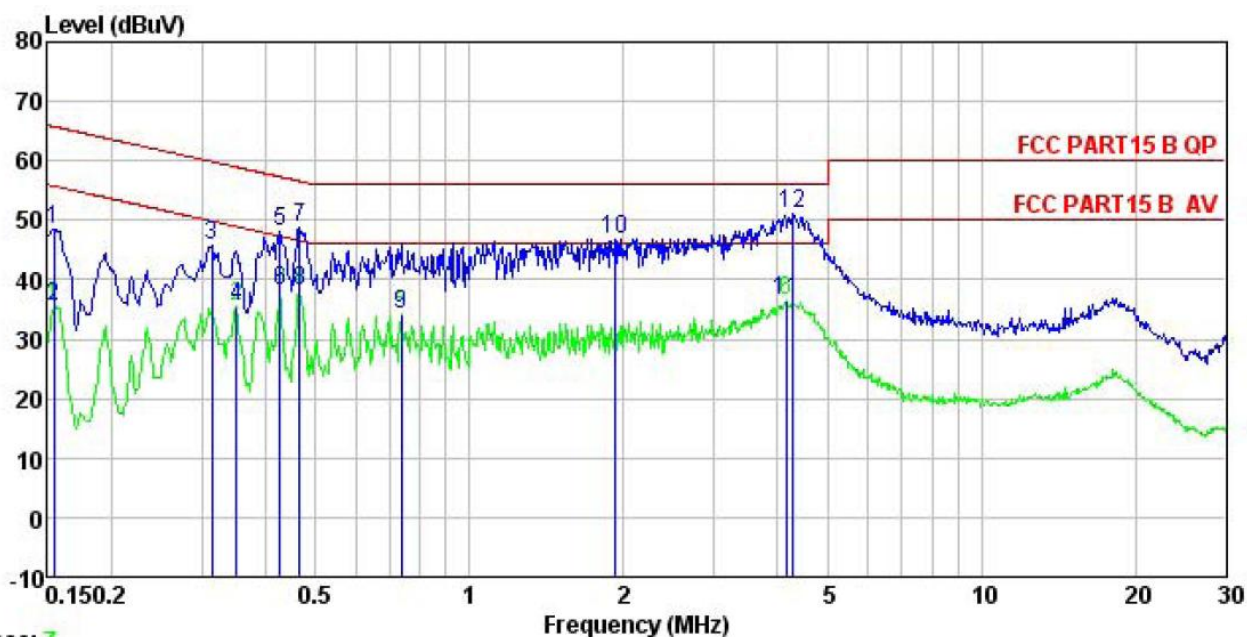
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC Part 15 C Section 15.203 /247(c) |
| <p><i>15.203 requirement:</i><br/> An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p><i>15.247(c) (1)(i) requirement:</i><br/> (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p> |                                      |
| <b>E.U.T Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                      |
| <p>The BLE antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is -1 dBi.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |

## 6.2 Conducted Emission

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |           |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------|
| Test Requirement:                                | FCC Part 15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |           |
| Test Method:                                     | ANSI C63.4: 2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |           |
| Test Frequency Range:                            | 150 kHz to 30 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |           |
| Class / Severity:                                | Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |           |
| Receiver setup:                                  | RBW=9kHz, VBW=30kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |           |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |           |
| Test procedure                                   | <div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</div> <div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div> <div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.</div> |              |           |
| Test setup:                                      | <div><div><div>Reference Plane</div><div><div><div>LISN</div><div>AUX Equipment</div><div>E.U.T</div></div><div>40cm</div><div>80cm</div><div><div>LISN</div><div>Filter</div><div>EMI Receiver</div></div><div>AC power</div><div>Test table/Insulation plane</div></div></div><div><div>Remark</div><div>E.U.T: Equipment Under Test</div><div>LISN: Line Impedance Stabilization Network</div><div>Test table height=0.8m</div></div></div>                                                                                                                                                                                                                                                                               |              |           |
| Test Instruments:                                | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |           |
| Test mode:                                       | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |           |
| Test results:                                    | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |              |           |

### Measurement Data

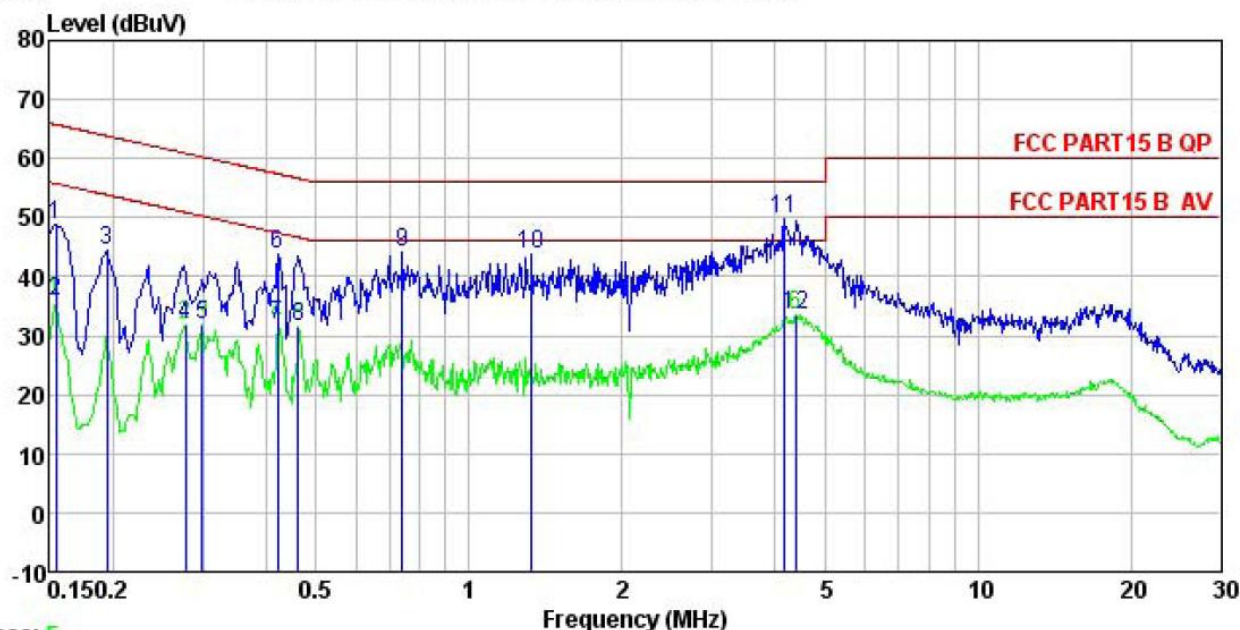
Neutral:



Site : CCIS Shielding Room  
 Condition : FCC PART15 B QP LISN NEUTRAL  
 EUT : Mobile Phone  
 Model : LT150+  
 Test Mode : BLE mode  
 Power Rating : AC120V/60Hz  
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa  
 Test Engineer: GAREN  
 Remark :

|    | Freq  | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------------|------------|-------|------------|------------|---------|
|    | MHz   | dBUV       | dB          | dB         | dBUV  | dBUV       | dB         |         |
| 1  | 0.154 | 37.56      | 0.25        | 10.78      | 48.59 | 65.78      | -17.19     | QP      |
| 2  | 0.154 | 24.56      | 0.25        | 10.78      | 35.59 | 55.78      | -20.19     | Average |
| 3  | 0.313 | 34.76      | 0.26        | 10.74      | 45.76 | 59.88      | -14.12     | QP      |
| 4  | 0.350 | 24.38      | 0.25        | 10.73      | 35.36 | 48.96      | -13.60     | Average |
| 5  | 0.426 | 37.05      | 0.26        | 10.73      | 48.04 | 57.33      | -9.29      | QP      |
| 6  | 0.426 | 27.28      | 0.26        | 10.73      | 38.27 | 47.33      | -9.06      | Average |
| 7  | 0.466 | 37.90      | 0.28        | 10.75      | 48.93 | 56.58      | -7.65      | QP      |
| 8  | 0.466 | 27.13      | 0.28        | 10.75      | 38.16 | 46.58      | -8.42      | Average |
| 9  | 0.735 | 23.09      | 0.19        | 10.79      | 34.07 | 46.00      | -11.93     | Average |
| 10 | 1.928 | 35.61      | 0.29        | 10.96      | 46.86 | 56.00      | -9.14      | QP      |
| 11 | 4.158 | 25.16      | 0.29        | 10.88      | 36.33 | 46.00      | -9.67      | Average |
| 12 | 4.292 | 39.78      | 0.29        | 10.88      | 50.95 | 56.00      | -5.05      | QP      |

Line:



Trace: 5

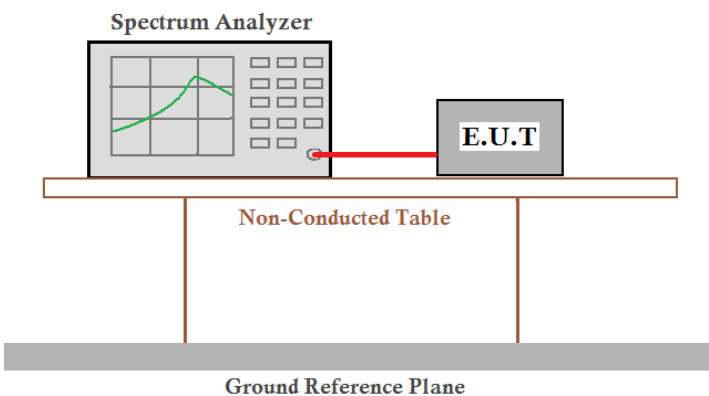
Site : CCIS Shielding Room  
 Condition : FCC PART15 B QP LISN LINE  
 EUT : Mobile Phone  
 Model : LT50+  
 Test Mode : BLE mode  
 Power Rating : AC120V/60Hz  
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa  
 Test Engineer: GAREN  
 Remark :

|    | Freq  | Read  | LISN   | Cable | Level | Limit | Over   |         |
|----|-------|-------|--------|-------|-------|-------|--------|---------|
|    | MHz   | Level | Factor | Loss  | dBuV  | Line  | Limit  | Remark  |
|    | MHz   | dBuV  | dB     | dB    | dBuV  | dBuV  | dB     |         |
| 1  | 0.154 | 37.85 | 0.27   | 10.78 | 48.90 | 65.78 | -16.88 | QP      |
| 2  | 0.154 | 24.79 | 0.27   | 10.78 | 35.84 | 55.78 | -19.94 | Average |
| 3  | 0.194 | 33.57 | 0.28   | 10.76 | 44.61 | 63.84 | -19.23 | QP      |
| 4  | 0.277 | 20.84 | 0.26   | 10.74 | 31.84 | 50.90 | -19.06 | Average |
| 5  | 0.299 | 20.90 | 0.26   | 10.74 | 31.90 | 50.28 | -18.38 | Average |
| 6  | 0.421 | 32.76 | 0.28   | 10.73 | 43.77 | 57.42 | -13.65 | QP      |
| 7  | 0.421 | 20.69 | 0.28   | 10.73 | 31.70 | 47.42 | -15.72 | Average |
| 8  | 0.461 | 20.36 | 0.29   | 10.75 | 31.40 | 46.67 | -15.27 | Average |
| 9  | 0.739 | 33.17 | 0.22   | 10.79 | 44.18 | 56.00 | -11.82 | QP      |
| 10 | 1.331 | 32.70 | 0.25   | 10.91 | 43.86 | 56.00 | -12.14 | QP      |
| 11 | 4.158 | 38.56 | 0.28   | 10.88 | 49.72 | 56.00 | -6.28  | QP      |
| 12 | 4.384 | 22.48 | 0.29   | 10.87 | 33.64 | 46.00 | -12.36 | Average |

Notes:

1. An initial pre-scan was performed on the live and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss

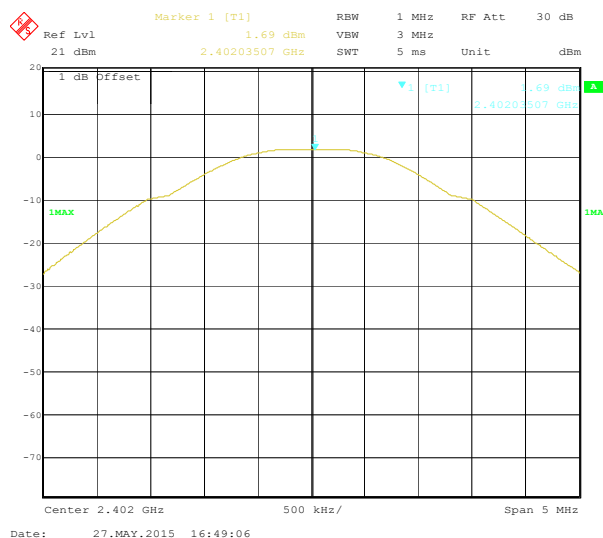
## 6.3 Conducted Output Power

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (b)(3)                                                |
| Test Method:      | ANSI C63.4:2009 and KDB558074                                                      |
| Limit:            | 30dBm                                                                              |
| Test setup:       |  |
| Test Instruments: | Refer to section 5.7 for details                                                   |
| Test mode:        | Refer to section 5.3 for details                                                   |
| Test results:     | Passed                                                                             |
| Remark:           | Test method refer to KDB558074 v03r01 (DTS Measure Guidance) section 9.2.2.2       |

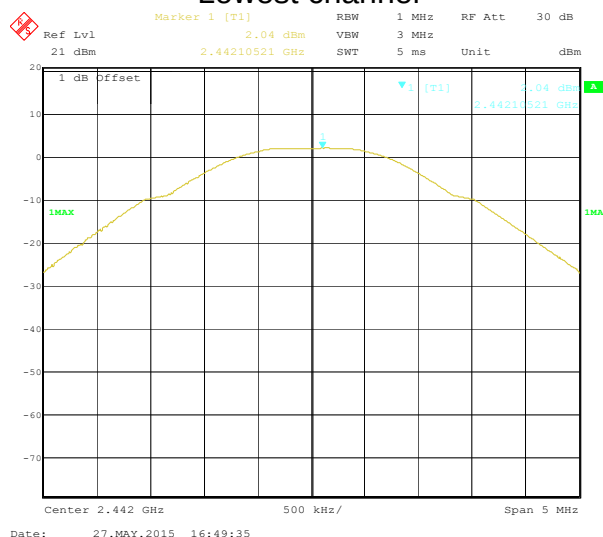
### Measurement Data

| Test CH | Maximum Conducted Output Power (dBm) | Limit(dBm) | Result |
|---------|--------------------------------------|------------|--------|
| Lowest  | 1.69                                 | 30.00      | Pass   |
| Middle  | 2.04                                 |            |        |
| Highest | 1.50                                 |            |        |

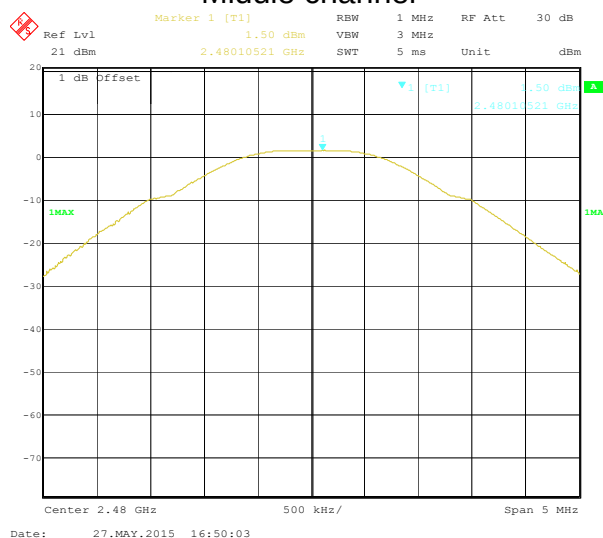
Test plot as follows:



Lowest channel

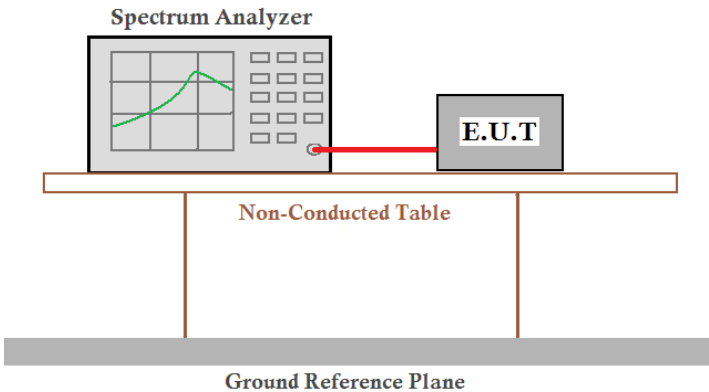


Middle channel



Highest channel

## 6.4 Occupy Bandwidth

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (a)(2)                                                |
| Test Method:      | ANSI C63.4:2009 and KDB558074                                                      |
| Limit:            | >500kHz                                                                            |
| Test setup:       |  |
| Test Instruments: | Refer to section 5.7 for details                                                   |
| Test mode:        | Refer to section 5.3 for details                                                   |
| Test results:     | Passed                                                                             |

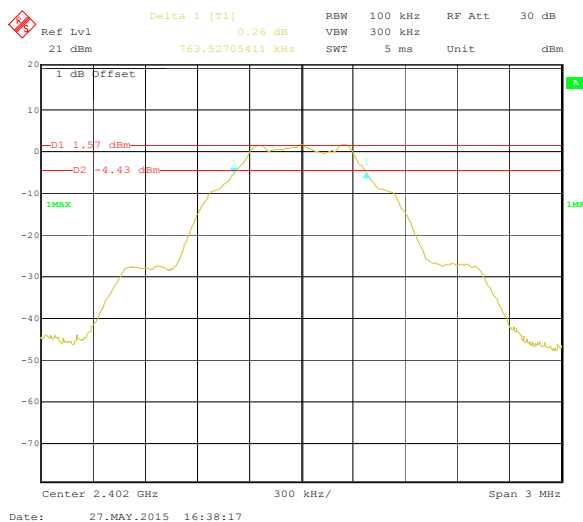
### Measurement Data

| Test CH | 6dB Emission Bandwidth (MHz) | Limit(kHz) | Result |
|---------|------------------------------|------------|--------|
| Lowest  | 0.764                        | >500       | Pass   |
| Middle  | 0.764                        |            |        |
| Highest | 0.758                        |            |        |

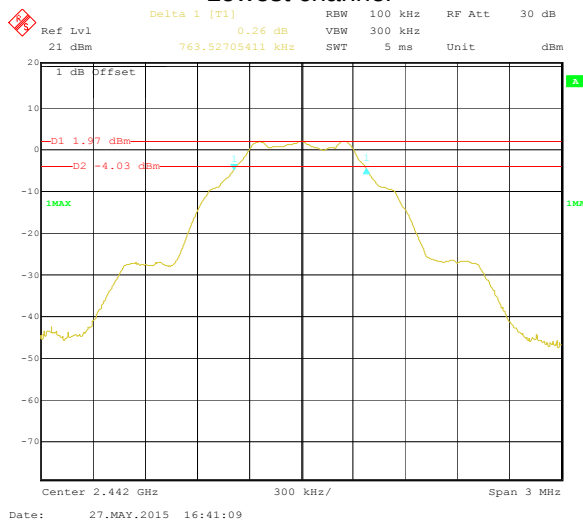
| Test CH | 99% Occupy Bandwidth (MHz) | Limit(kHz) | Result |
|---------|----------------------------|------------|--------|
| Lowest  | 1.106                      | N/A        | N/A    |
| Middle  | 1.106                      |            |        |
| Highest | 1.106                      |            |        |

Test plot as follows:

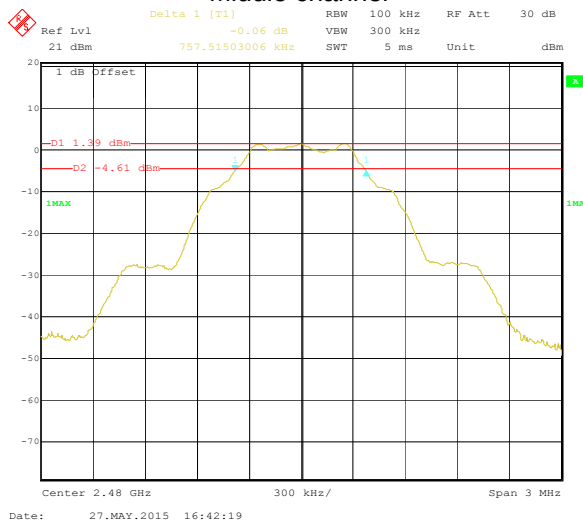
## 6dB EBW



## Lowest channel

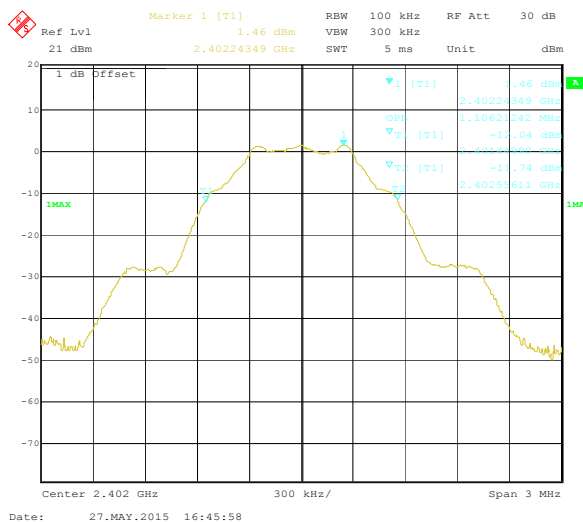


## Middle channel

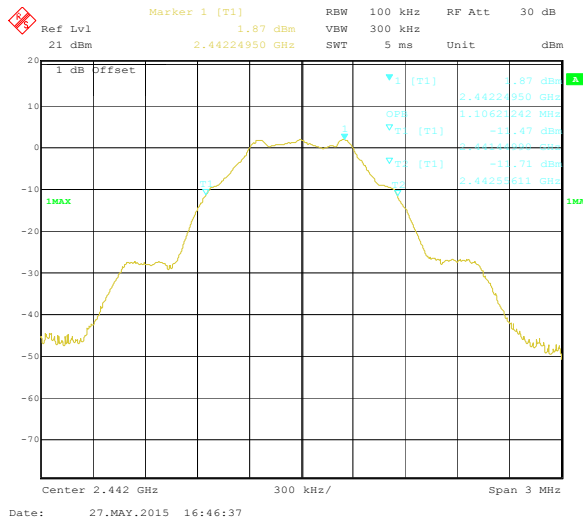


## Highest channel

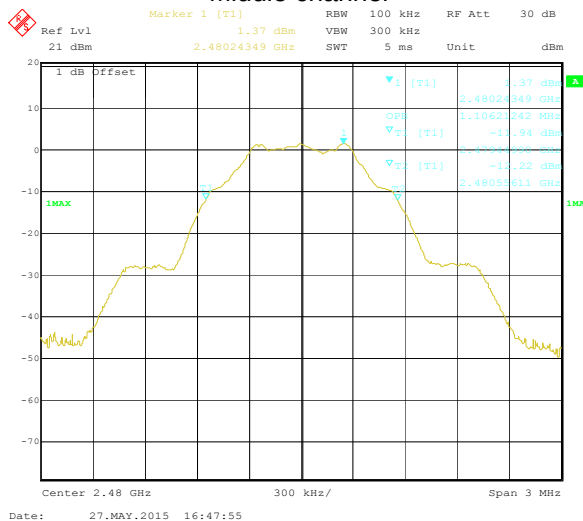
## 99% OBW



## Lowest channel

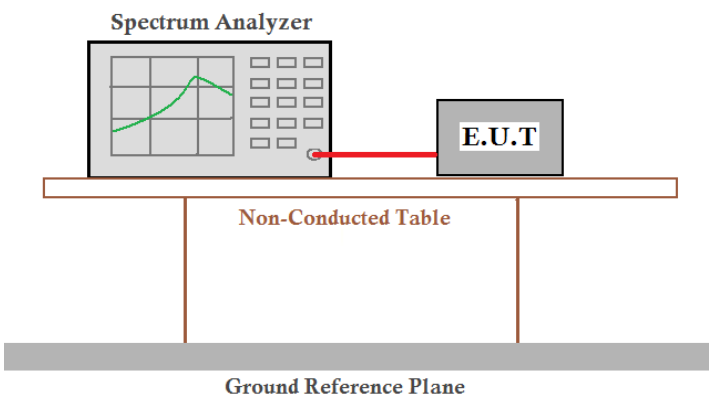


## Middle channel



## Highest channel

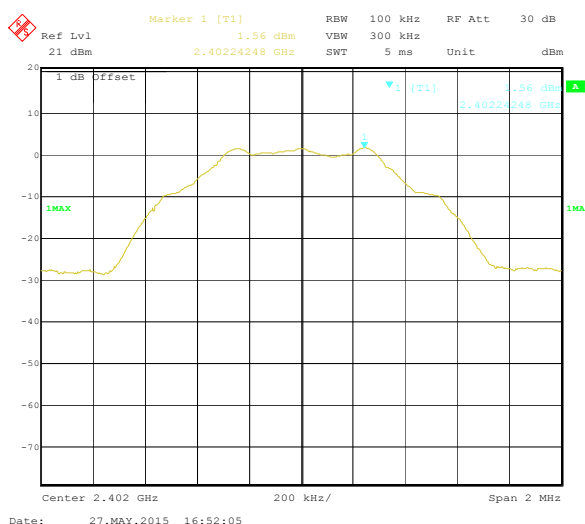
## 6.5 Power Spectral Density

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (e)                                                   |
| Test Method:      | ANSI C63.4:2009 and KDB558074                                                      |
| Limit:            | 8 dBm                                                                              |
| Test setup:       |  |
| Test Instruments: | Refer to section 5.7 for details                                                   |
| Test mode:        | Refer to section 5.3 for details                                                   |
| Test results:     | Passed                                                                             |

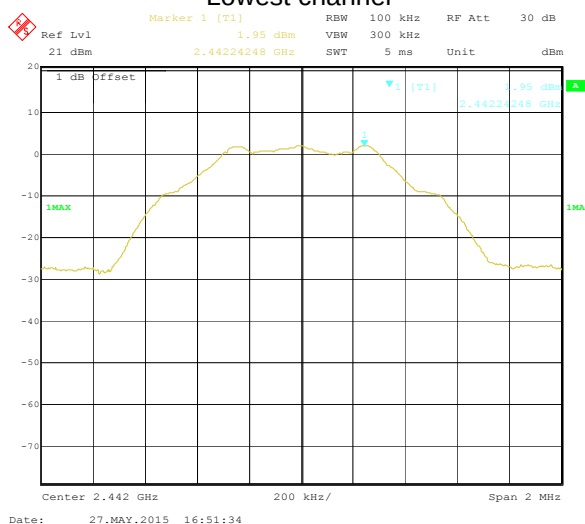
### Measurement Data

| Test CH | Power Spectral Density (dBm) | Limit(dBm) | Result |
|---------|------------------------------|------------|--------|
| Lowest  | 1.56                         | 8.00       | Pass   |
| Middle  | 1.95                         |            |        |
| Highest | 1.38                         |            |        |

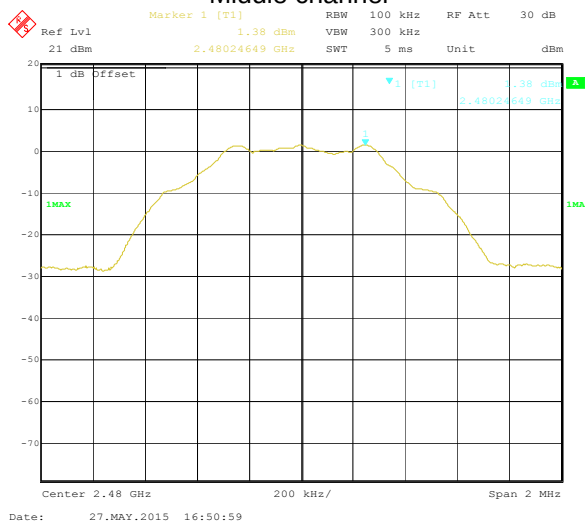
Test plots as follow:



Lowest channel



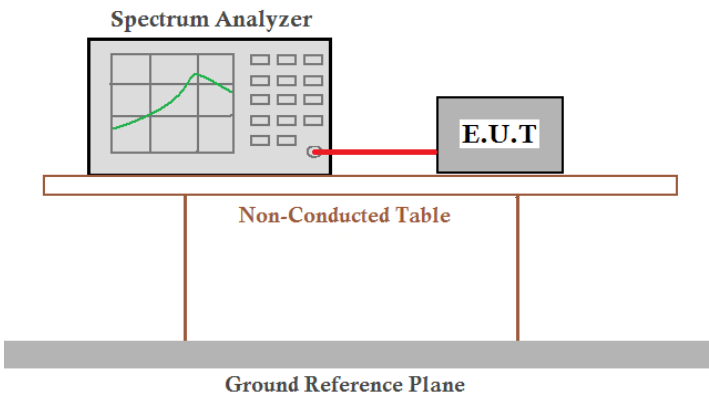
Middle channel



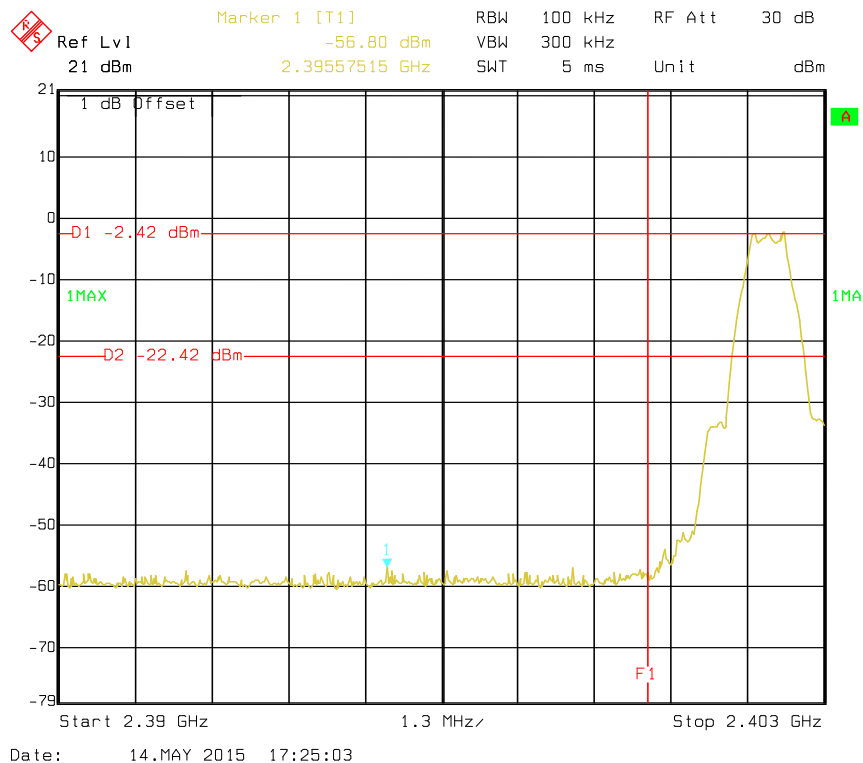
Highest channel

## 6.6 Band Edge

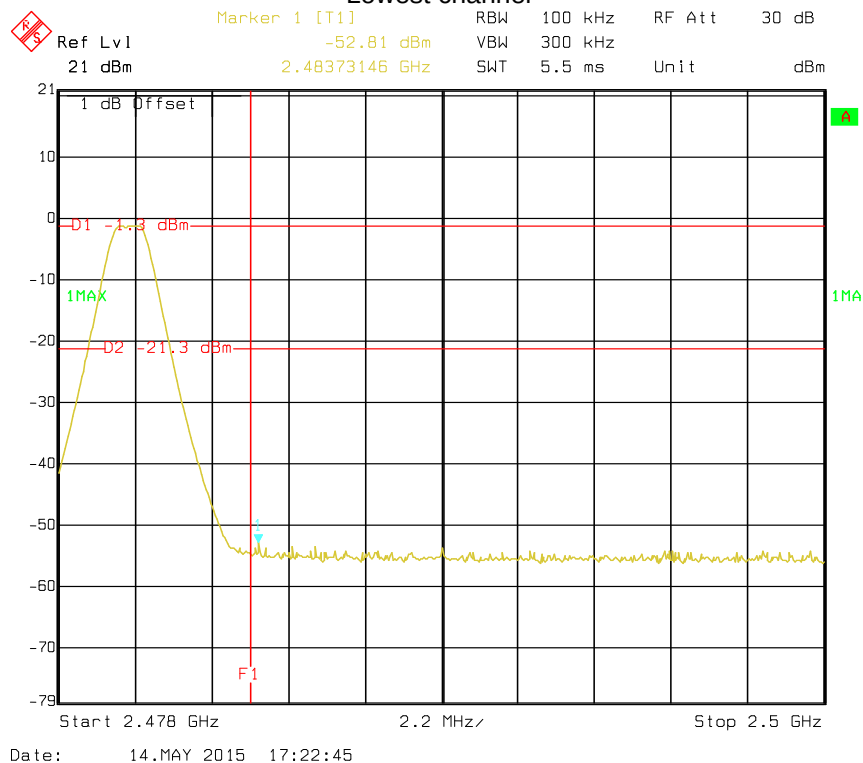
### 6.6.1 Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                        |
| Test Method:      | ANSI C63.4:2009 and KDB558074                                                                                                                                                                                                                                                                                                                                                           |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>                                      |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                        |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                        |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                  |

Test plots as follow:



## Lowest channel



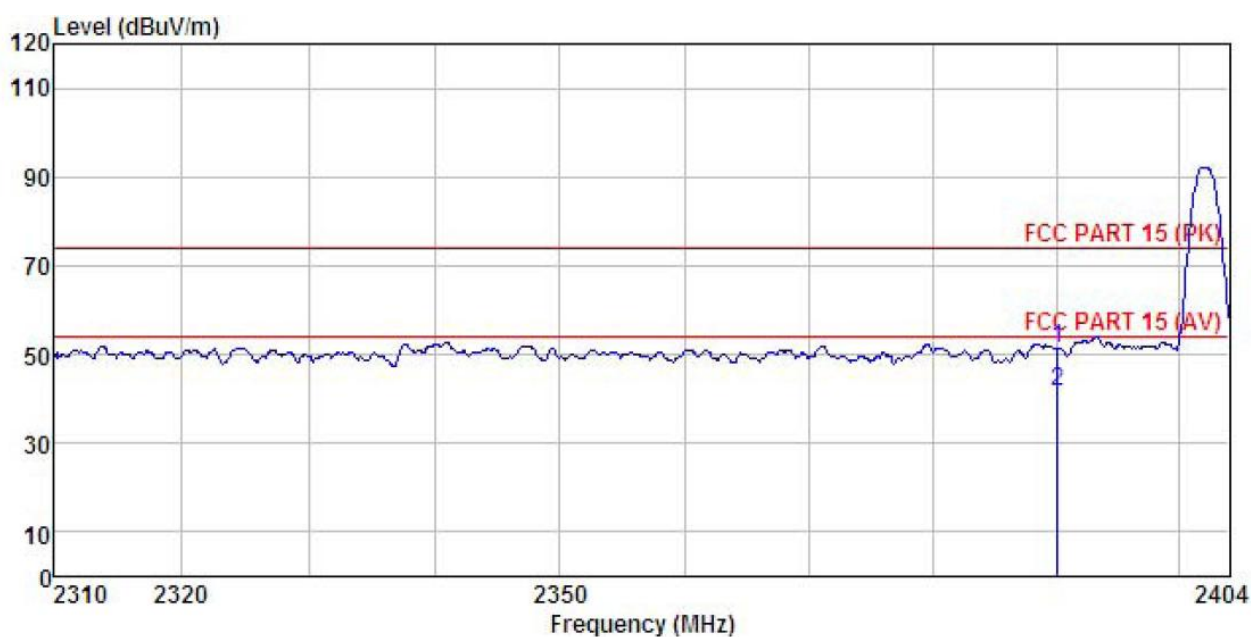
## Highest channel

## 6.6.2 Radiated Emission Method

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |      |               |               |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------|---------------|---------------|
| Test Requirement:     | FCC Part 15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |      |               |               |
| Test Method:          | ANSI C63.4: 2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |      |               |               |
| Test Frequency Range: | 2.3GHz to 2.5GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |      |               |               |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |      |               |               |
| Receiver setup:       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Detector           | RBW  | VBW           | Remark        |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Peak               | 1MHz | 3MHz          | Peak Value    |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Peak               | 1MHz | 10Hz          | Average Value |
| Limit:                | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Limit (dBuV/m @3m) |      | Remark        |               |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 54.00              |      | Average Value |               |
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 74.00              |      | Peak Value    |               |
| Test Procedure:       | <div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> |                    |      |               |               |
| Test setup:           | <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |      |               |               |
| Test Instruments:     | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |      |               |               |
| Test mode:            | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |      |               |               |
| Test results:         | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |      |               |               |

Test channel: Lowest

Horizontal:

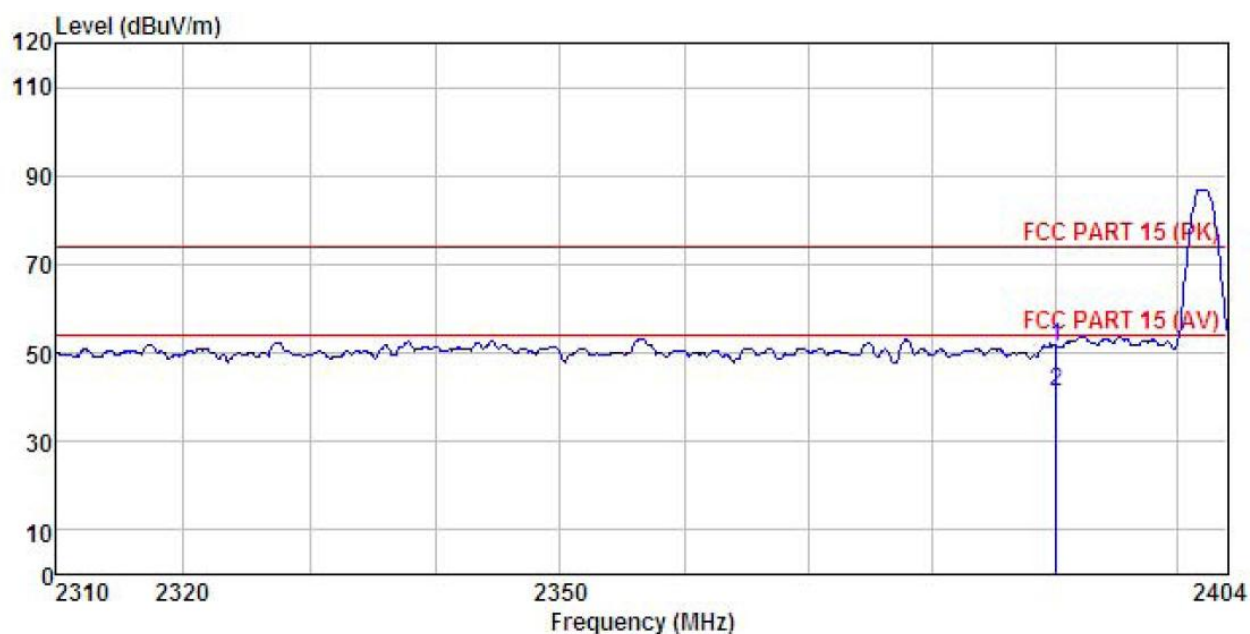


Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
EUT : Mobile phone  
Model : LT50+  
Test mode : BLE-L mode  
Power Rating : AC 120V/60Hz  
Environment : Temp:25.5°C Humi:55%  
Test Engineer: MT  
Remark :

|   | Freq     | ReadAntenna<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|---|----------|----------------------|-------------------|---------------|------------------|--------|---------------|---------------|---------|
|   | MHz      | dBuV                 | dB/m              | dB            | dB               | dBuV/m | dBuV/m        | dB            |         |
| 1 | 2390.000 | 17.10                | 27.58             | 6.63          | 0.00             | 51.31  | 74.00         | -22.69        | Peak    |
| 2 | 2390.000 | 7.26                 | 27.58             | 6.63          | 0.00             | 41.47  | 54.00         | -12.53        | Average |

Test channel: Lowest

Vertical:

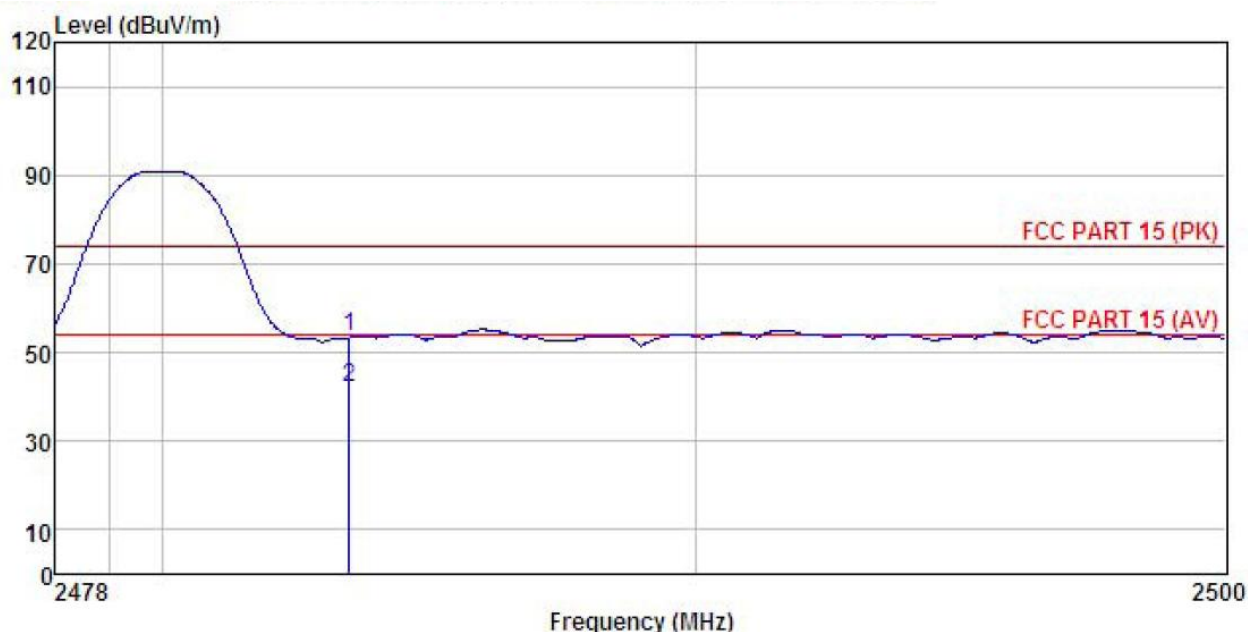


Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
 EUT : Mobile phone  
 Model : LT50+  
 Test mode : BLE-L mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: MT  
 Remark :

|   | Freq     | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit  | Over<br>Limit | Remark  |
|---|----------|---------------|-------------------|---------------|------------------|--------|--------|---------------|---------|
|   | MHz      | dBuV          | dB/m              | dB            | dB               | dBuV/m | dBuV/m | dB            |         |
| 1 | 2390.000 | 17.00         | 27.58             | 6.63          | 0.00             | 51.21  | 74.00  | -22.79        | Peak    |
| 2 | 2390.000 | 7.15          | 27.58             | 6.63          | 0.00             | 41.36  | 54.00  | -12.64        | Average |

Test channel: Highest

Horizontal:

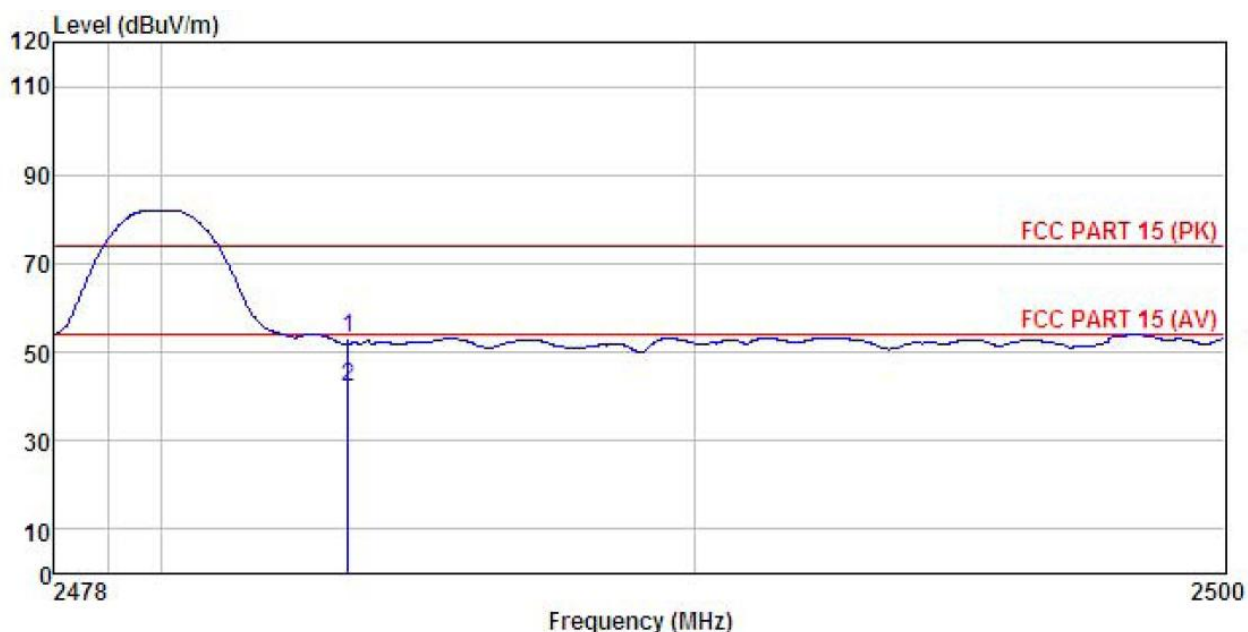


Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL  
 EUT : Mobile phone  
 Model : LT50+  
 Test mode : BLE-H mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: MT  
 Remark :

| Remark | Freq     | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit<br>Line | Over<br>Limit | Remark  |
|--------|----------|---------------|-------------------|---------------|------------------|--------|---------------|---------------|---------|
|        | MHz      | dBuV          | dB/m              | dB            | dB               | dBuV/m | dBuV/m        | dB            |         |
| 1      | 2483.500 | 19.07         | 27.52             | 6.85          | 0.00             | 53.44  | 74.00         | -20.56        | Peak    |
| 2      | 2483.500 | 7.87          | 27.52             | 6.85          | 0.00             | 42.24  | 54.00         | -11.76        | Average |

Test channel: Highest

Vertical:

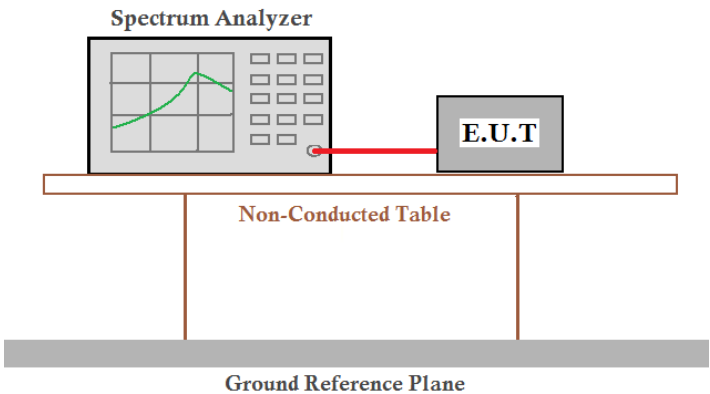


Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL  
 EUT : Mobile phone  
 Model : LT50+  
 Test mode : BLE-H mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: MT  
 Remark :

|            | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |                |
|------------|-------------|--------|--------|--------|--------|--------|----------------|
| Freq       | Level       | Factor | Loss   | Factor | Level  | Line   | Limit          |
| -----      | -----       | -----  | -----  | -----  | -----  | -----  | -----          |
| MHz        | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB             |
| 1 2483.500 | 18.94       | 27.52  | 6.85   | 0.00   | 53.31  | 74.00  | -20.69 Peak    |
| 2 2483.500 | 7.87        | 27.52  | 6.85   | 0.00   | 42.24  | 54.00  | -11.76 Average |

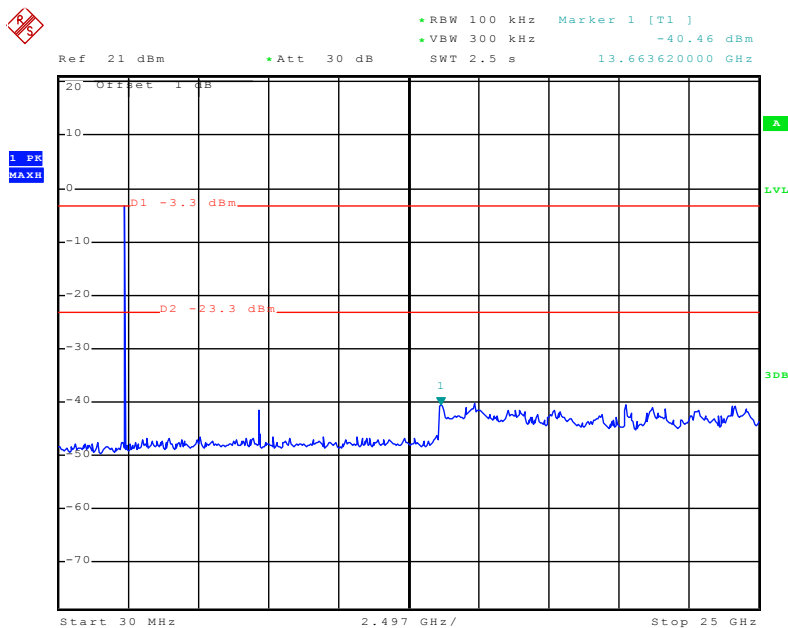
## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part 15 C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Method:      | ANSI C63.4:2009 and KDB558074                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.                                                                                                    |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green curve, is connected to an E.U.T (Equipment Under Test) box by a red cable. Both the Spectrum Analyzer and the E.U.T are positioned on a table labeled 'Non-Conducted Table'. This table is supported by two vertical legs and rests on a thick grey horizontal bar labeled 'Ground Reference Plane'.</p> |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test results:     | Passed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Test plot as follows:

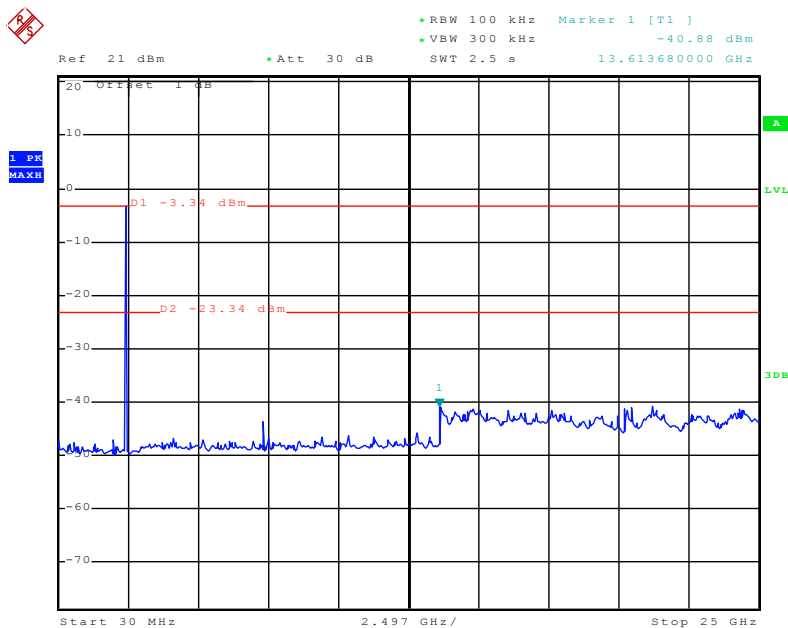
## Lowest channel



Date: 14.MAY.2015 16:38:11

30MHz~25GHz

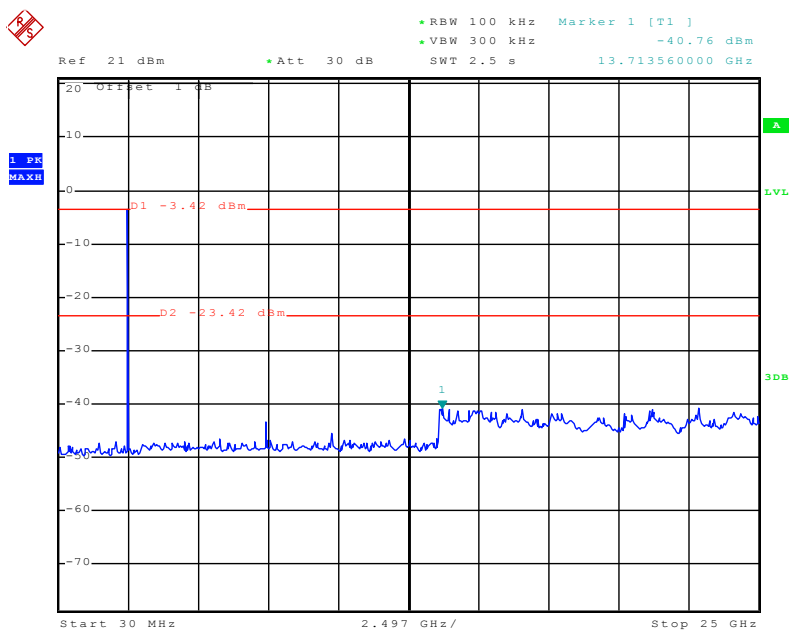
## Middle channel



Date: 14.MAY.2015 16:39:17

30MHz~25GHz

## Highest channel

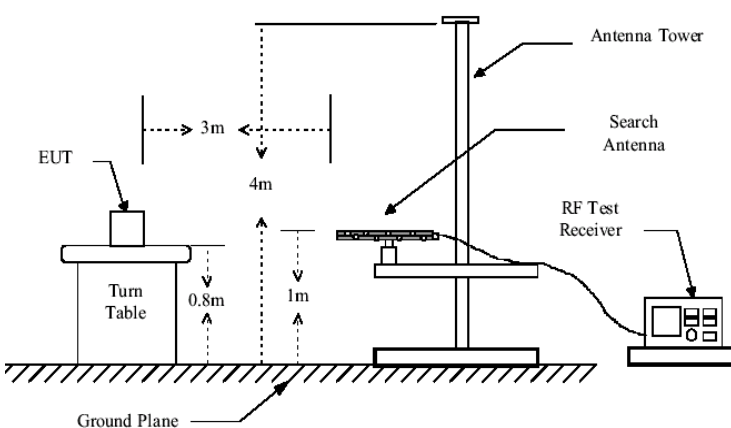
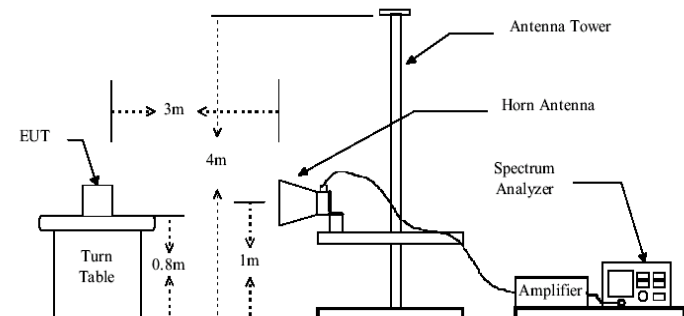


Date: 14.MAY.2015 16:40:21

30MHz~25GHz

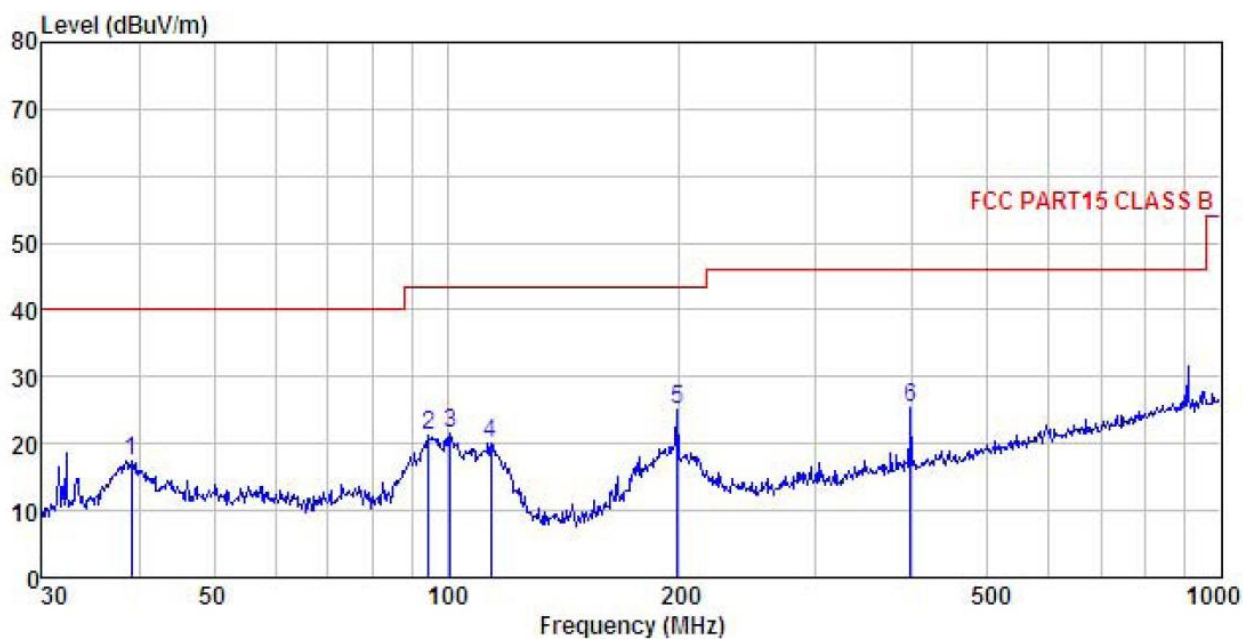
## 6.7.2 Radiated Emission Method

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                    |               |                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|---------------|------------------|
| Test Requirement:     | FCC Part 15 C Section 15.209 and 15.205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                    |               |                  |
| Test Method:          | ANSI C63.4:2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                    |               |                  |
| Test Frequency Range: | 9KHz to 25GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                    |               |                  |
| Test site:            | Measurement Distance: 3m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                    |               |                  |
| Receiver setup:       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                    |               |                  |
|                       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Detector   | RBW                | VBW           | Remark           |
|                       | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quasi-peak | 120KHz             | 300KHz        | Quasi-peak Value |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Peak       | 1MHz               | 3MHz          | Peak Value       |
| Peak                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1MHz       | 10Hz               | Average Value |                  |
| Limit:                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                    |               |                  |
|                       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | Limit (dBuV/m @3m) |               | Remark           |
|                       | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | 40.0               |               | Quasi-peak Value |
|                       | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | 43.5               |               | Quasi-peak Value |
|                       | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | 46.0               |               | Quasi-peak Value |
|                       | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | 54.0               |               | Quasi-peak Value |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 54.0               |               | Average Value    |
| 74.0                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | Peak Value         |               |                  |
| Test Procedure:       | <div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> |            |                    |               |                  |

|                   |                                                                                                                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>                                               |
| Test Instruments: | Refer to section 5.7 for details                                                                                                                                                                                                                        |
| Test mode:        | Refer to section 5.3 for details                                                                                                                                                                                                                        |
| Test results:     | Passed                                                                                                                                                                                                                                                  |
| Remark:           | <ol style="list-style-type: none"> <li>1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li> <li>2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.</li> </ol> |

**Below 1GHz**

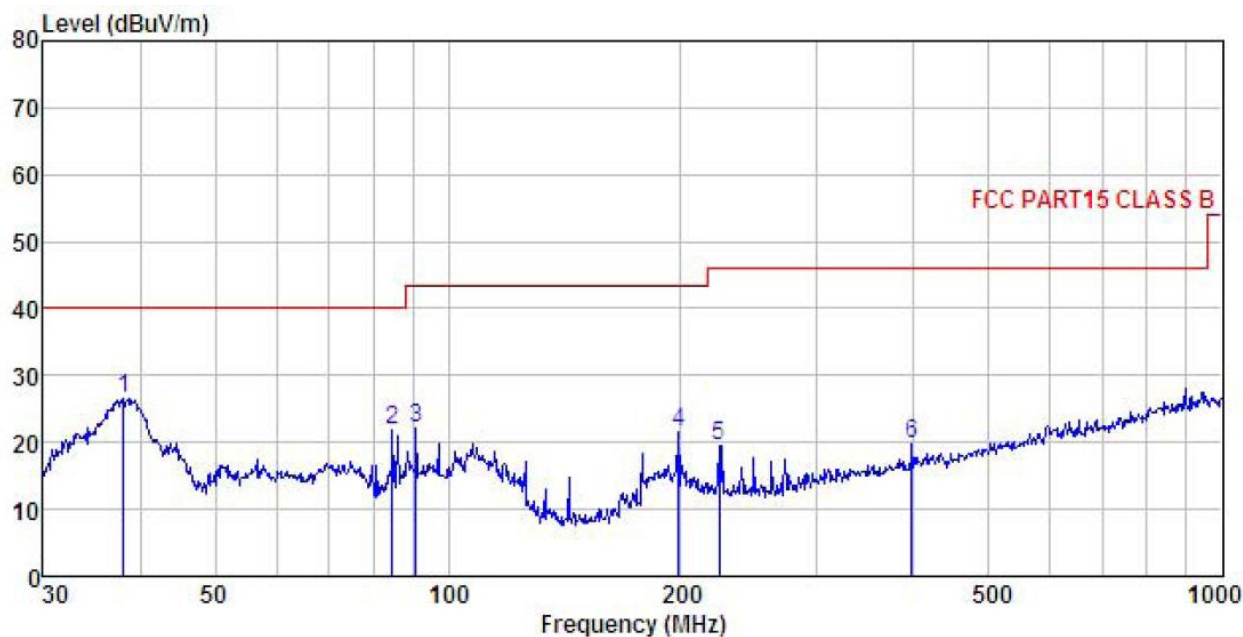
Horizontal:



Site : 3m chamber  
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL  
 EUT : Mobile phone  
 Model : LT50+  
 Test mode : BLE mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: MT  
 Remark :

|       | ReadAntenna | Cable  | Preamp |        | Limit  | Over   |       |           |
|-------|-------------|--------|--------|--------|--------|--------|-------|-----------|
| Freq  | Level       | Factor | Loss   | Factor | Level  | Line   | Limit | Remark    |
| ----- | -----       | -----  | -----  | -----  | -----  | -----  | ----- | -----     |
| MHz   | dBuV        | dB/m   | dB     | dB     | dBuV/m | dBuV/m | dB    |           |
| 1     | 39.162      | 33.54  | 13.34  | 0.51   | 29.91  | 17.48  | 40.00 | -22.52 QP |
| 2     | 94.760      | 36.97  | 12.84  | 0.93   | 29.55  | 21.19  | 43.50 | -22.31 QP |
| 3     | 100.934     | 36.92  | 13.06  | 0.97   | 29.52  | 21.43  | 43.50 | -22.07 QP |
| 4     | 114.114     | 36.97  | 11.52  | 1.08   | 29.43  | 20.14  | 43.50 | -23.36 QP |
| 5     | 198.588     | 42.05  | 10.57  | 1.38   | 28.84  | 25.16  | 43.50 | -18.34 QP |
| 6     | 397.633     | 36.89  | 15.01  | 2.11   | 28.77  | 25.24  | 46.00 | -20.76 QP |

Vertical:



Site : 3m chamber  
 Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL  
 EUT : Mobile phone  
 Model : LT50+  
 Test mode : BLE mode  
 Power Rating : AC 120V/60Hz  
 Environment : Temp:25.5°C Humi:55%  
 Test Engineer: MT  
 Remark :

|   | Freq    | Read<br>Level | Antenna<br>Factor | Cable<br>Loss | Preamp<br>Factor | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|---------|---------------|-------------------|---------------|------------------|--------|---------------|---------------|--------|
|   | MHz     | dBuV          | dB/m              | dB            | dB               | dBuV/m | dBuV/m        | dB            |        |
| 1 | 38.078  | 42.93         | 13.11             | 0.51          | 29.92            | 26.63  | 40.00         | -13.37        | QP     |
| 2 | 84.702  | 40.33         | 10.16             | 0.88          | 29.60            | 21.77  | 40.00         | -18.23        | QP     |
| 3 | 90.855  | 38.73         | 12.07             | 0.91          | 29.57            | 22.14  | 43.50         | -21.36        | QP     |
| 4 | 198.588 | 38.49         | 10.57             | 1.38          | 28.84            | 21.60  | 43.50         | -21.90        | QP     |
| 5 | 223.733 | 35.34         | 11.36             | 1.50          | 28.69            | 19.51  | 46.00         | -26.49        | QP     |
| 6 | 397.633 | 31.50         | 15.01             | 2.11          | 28.77            | 19.85  | 46.00         | -26.15        | QP     |

## Above 1GHz

| Test channel:   |                   |                       | Lowest          |                    | Level:         |                     | Peak            |              |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4804.00         | 44.85             | 31.53                 | 8.90            | 40.24              | 45.04          | 74.00               | -28.96          | Vertical     |
| 4804.00         | 45.23             | 31.53                 | 8.90            | 40.24              | 45.42          | 74.00               | -28.58          | Horizontal   |
| Test channel:   |                   |                       | Lowest          |                    | Level:         |                     | Average         |              |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4804.00         | 35.69             | 31.53                 | 8.90            | 40.24              | 35.88          | 54.00               | -18.12          | Vertical     |
| 4804.00         | 36.45             | 31.53                 | 8.90            | 40.24              | 36.64          | 54.00               | -17.36          | Horizontal   |

| Test channel:   |                   |                       | Middle          |                    | Level:         |                     | Peak            |              |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4884.00         | 45.80             | 31.58                 | 8.98            | 40.15              | 46.21          | 74.00               | -27.79          | Vertical     |
| 4884.00         | 44.87             | 31.58                 | 8.98            | 40.15              | 45.28          | 74.00               | -28.72          | Horizontal   |
| Test channel:   |                   |                       | Middle          |                    | Level:         |                     | Average         |              |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4884.00         | 36.47             | 31.58                 | 8.98            | 40.15              | 36.88          | 54.00               | -17.12          | Vertical     |
| 4884.00         | 35.12             | 31.58                 | 8.98            | 40.15              | 35.53          | 54.00               | -18.47          | Horizontal   |

| Test channel:   |                   |                       | Highest         |                    | Level:         |                     | Peak            |              |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4960.00         | 45.46             | 31.69                 | 9.08            | 40.03              | 46.20          | 74.00               | -27.80          | Vertical     |
| 4960.00         | 46.85             | 31.69                 | 9.08            | 40.03              | 47.59          | 74.00               | -26.41          | Horizontal   |
| Test channel:   |                   |                       | Highest         |                    | Level:         |                     | Average         |              |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 4960.00         | 36.47             | 31.69                 | 9.08            | 40.03              | 37.21          | 54.00               | -16.79          | Vertical     |
| 4960.00         | 37.02             | 31.69                 | 9.08            | 40.03              | 37.76          | 54.00               | -16.24          | Horizontal   |

### Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.