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# FCC Test Report

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Report No.: AGC00529140701FE08

**FCC ID** : Y7WPLUMZ350

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Gator PLUS

**BRAND NAME** : plum

**MODEL NAME** : Z350

**CLIENT** : CLC Hong Kong Limited

**DATE OF ISSUE** : July 24, 2014

**STANDARD(S)** : FCC Part 15.247

**TEST PROCEDURE(S)** : KDB 558074 v03r02

**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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### Report Revise Record

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |
|----------------|-------------|---------------|---------------|-----------------|
| V1.0           | /           | July 24, 2014 | Valid         | Original Report |

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## 1. VERIFICATION OF COMPLIANCE

|                                 |                                                                                         |
|---------------------------------|-----------------------------------------------------------------------------------------|
| <b>Applicant</b>                | CLC Hong Kong Limited                                                                   |
| <b>Address</b>                  | 1011A, 10/F., Harbour Centre Tower 1, No.1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong |
| <b>Manufacturer</b>             | CLC Technology Co., Ltd.                                                                |
| <b>Address</b>                  | Room 6G, Block C, NEO Building, Chegongmiao, Futian District, Shenzhen, P.R. China      |
| <b>Product Designation</b>      | Gator PLUS                                                                              |
| <b>Brand Name</b>               | plum                                                                                    |
| <b>Test Model</b>               | Z350                                                                                    |
| <b>Date of test</b>             | July 16,2014 to July 22,2014                                                            |
| <b>Deviation</b>                | None                                                                                    |
| <b>Condition of Test Sample</b> | Normal                                                                                  |
| <b>Report Template</b>          | AGCRT-US-BLE/RF (2013-03-01)                                                            |

### WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By

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Matt Zhang

July 24, 2014

Checked By

*Kidd Yang*

Kidd Yang

July 24, 2014

Authorized By

*Solger Zhang*

Solger Zhang

July 24, 2014

## 2.GENERAL INFORMATION

### 2.1PRODUCT DESCRIPTION

The EUT is designed as a “**Gator PLUS**”. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

|                     |                                                      |
|---------------------|------------------------------------------------------|
| Operation Frequency | 2.402 GHz to 2.480GHz                                |
| Bluetooth Version   | V4.0                                                 |
| Modulation          | GFSK                                                 |
| Number of channels  | 40 Channel(37 Hopping Channel,3 advertising Channel) |
| Antenna Designation | Integrated Antenna                                   |
| Antenna Gain        | 0.8dBi                                               |
| Hardware Version    | V7_MB_V1.0_20140306                                  |
| Software Version    | N/A                                                  |
| Power Supply        | DC3.7V by Built-in Li-ion Battery                    |

### 2.2 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: Y7WPLUMZ350** filing to comply with Section 15.247of the FCC Part 15, Subpart C Rules.

### 2.3TEST METHODOLOGY

All measurements contained in this report were conducted with KDB 558074 D01 DTS Meas Guidance v03r02, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions. The EUT was tested in all three orthogonal planes and the worse case was showed.

### 2.4 TEST FACILITY

All measurement facilities used to collect the measurement data are located at  
Attestation of Global Compliance (Shenzhen) Co, Ltd

2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

FCC register No.: 259865

### 2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

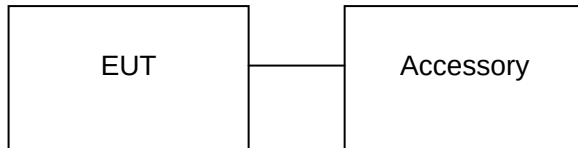
### 2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

### 3. SYSTEM TEST CONFIGURATION

#### 3.1 CONFIGURATION OF TESTED SYSTEM

Configuration:



#### 3.2 EQUIPMENT USED IN TESTED SYSTEM

| Item | Equipment  | Model No. | ID or Specification | Note      |
|------|------------|-----------|---------------------|-----------|
| 1    | Gator PLUS | Z350      | FCC ID: Y7WPLUMZ350 | EUT       |
| 2    | Adapter    | PMC43     | DC5.0V / 1A         | Accessory |
| 3    | Battery    | PMB50     | DC3.7V / 3600 mAh   | Accessory |
| 4    | Earphone   | Z350      | N/A                 | Accessory |
| 5    | USB Cable  | Z350      | N/A                 | Accessory |

#### ALL TEST EQUIPMENT LIST

| Description        | Manufacturer      | Model       | S/N        | Cal. Date  | Cal. Due   |
|--------------------|-------------------|-------------|------------|------------|------------|
| Power Probe        | R&S               | NRP-Z23     | 100323     | 07/15/2015 | 07/15/2015 |
| RF attenuator      | N/A               | RFA20db     | 68         | N/A        | N/A        |
| Spectrum Analyzer  | Agilent           | E4440A      | US41421290 | 07/15/2015 | 07/15/2015 |
| Amplifier          | EM                | EM30180     | 0607030    | 02/27/2014 | 02/26/2015 |
| Horn Antenna       | EM                | EM-AH-10180 | 67         | 04/19/2014 | 04/18/2015 |
| Horn Antenna       | A.H. Systems Inc. | SAS-574     | --         | 07/15/2015 | 07/15/2015 |
| EMI Test Receiver  | Rohde & Schwarz   | ESCI        | 100694     | 07/15/2015 | 07/15/2015 |
| Biological Antenna | A.H. Systems Inc. | SAS-521-4   | 26         | 06/06/2014 | 06/05/2015 |
| Loop Antenna       | A.H.              | SAS-526B    | 264        | 07/13/2014 | 07/12/2015 |
| LISN               | R&S               | ESH3-Z5     | 8389791009 | 07/15/2015 | 07/15/2015 |
| Radiation Cable 1  | Sat               | RE1         | R003       | 06/04/2014 | 06/03/2015 |
| Radiation Cable 2  | Sat               | RE2         | R002       | 06/04/2014 | 06/03/2015 |
| Conduction Cable   | Sat               | CE1         | C001       | 06/04/2014 | 06/03/2015 |

#### 4. SUMMARY OF TEST RESULTS

| FCC RULES             | DESCRIPTION OF TEST                             | RESULT    |
|-----------------------|-------------------------------------------------|-----------|
| § 15.203              | Antenna Requirement                             | Compliant |
| §15.209<br>§15.247(d) | Radiated Emission                               | Compliant |
| §15.247(d)            | Band Edges                                      | Compliant |
| §15.247               | 6 dB Bandwidth                                  | Compliant |
| §15.247(b)            | Conducted Power                                 | Compliant |
| §15.247(e)            | Maximum Conducted Output Power SPECTRAL Density | Compliant |
| §15.207               | Line Conduction Emission                        | Compliant |

#### 5. DESCRIPTION OF TEST MODES

The EUT has been operated in three modulations: GFSK independently.

| NO. | TEST MODE DESCRIPTION |
|-----|-----------------------|
| 1   | Low channel TX        |
| 2   | Middle channel TX     |
| 3   | High channel TX       |
| 4   | Normal Operating (BT) |

Note:

1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Eut is operating at its maximum duty cycle>or equal 98%

## **6. ANTENNA REQUIREMENT**

### **6.1. STANDARD APPLICABLE**

According to FCC 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

### **6.2. TEST RESULT**

This product has a permanent antenna, fulfill the requirement of this section.

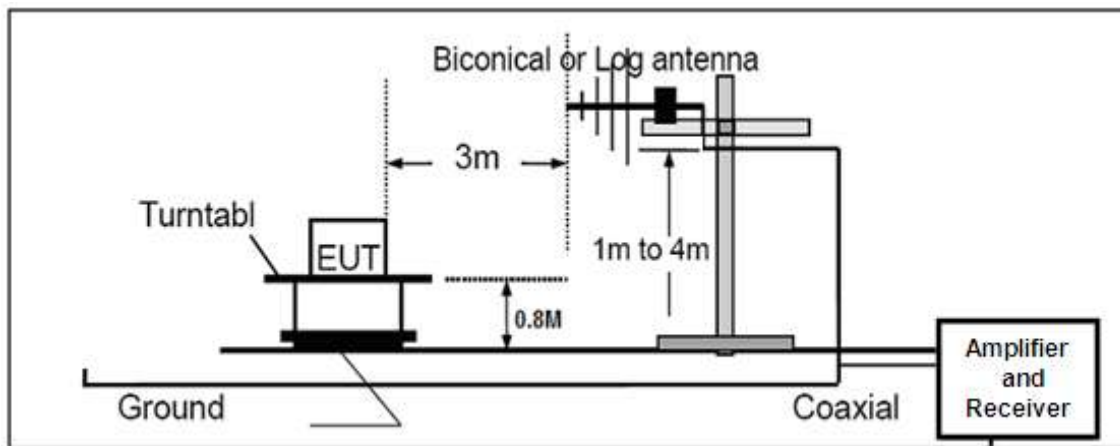
## **7. RADIATED EMISSION**

### **7.1 MEASUREMENT PROCEDURE**

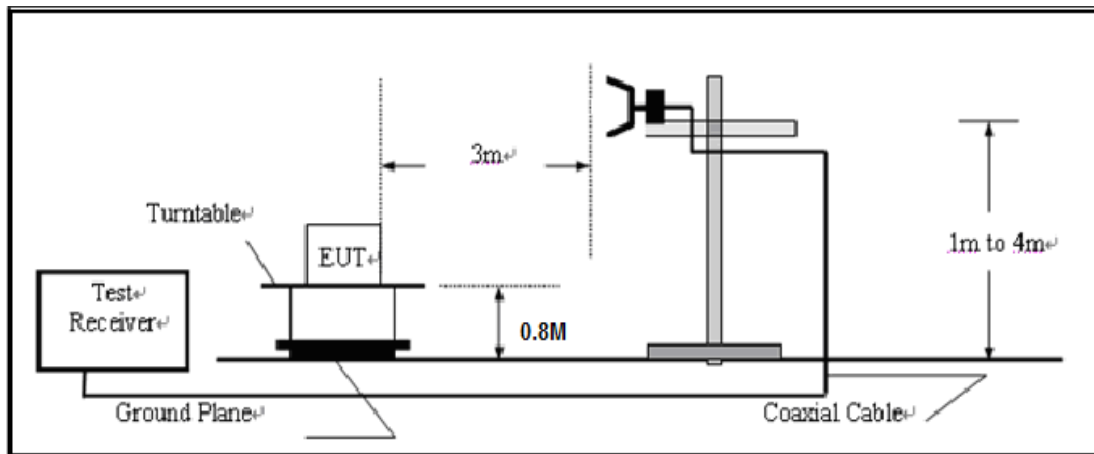
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

## 7.2 TEST SETUP

### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



### 7.3 LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(KHz)                          | 300                              |
| 0.490~1.705          | 24000/F(KHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

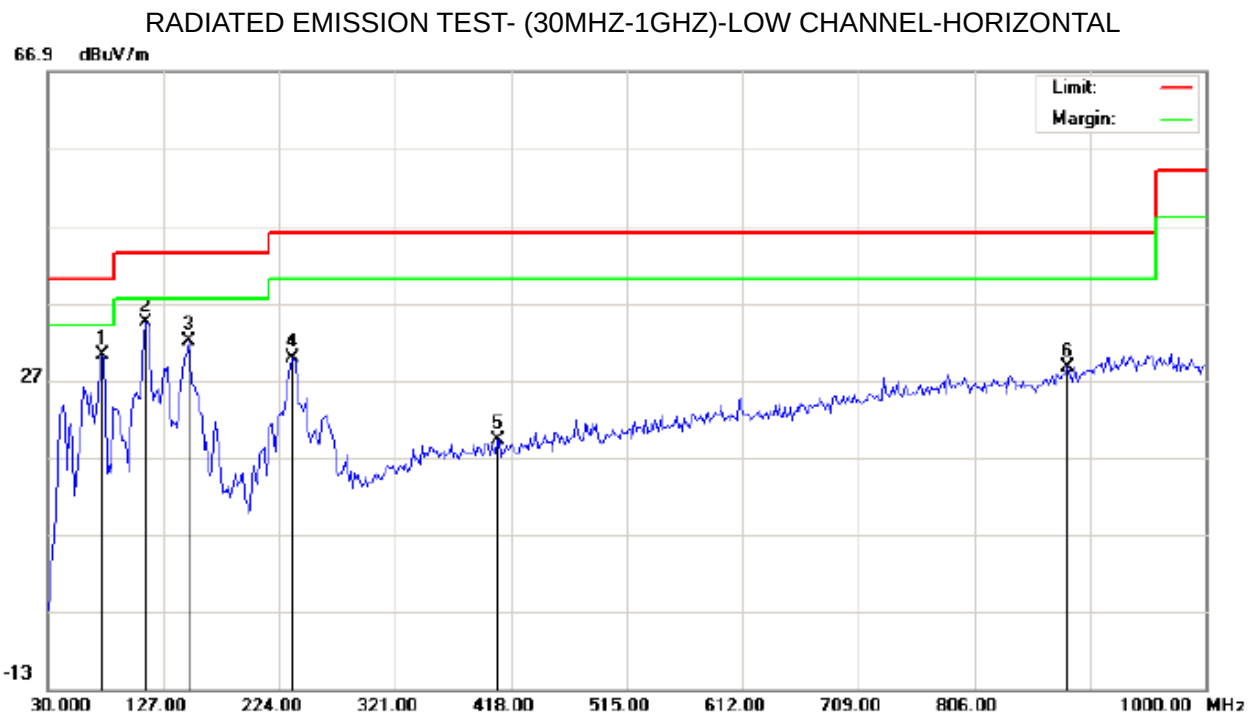
Note: All modes were tested For restricted band radiated emission,  
the test records reported below are the worst result compared to other modes.

### 7.4 TEST RESULT

#### RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

## RADIATED EMISSION BELOW 1GHZ

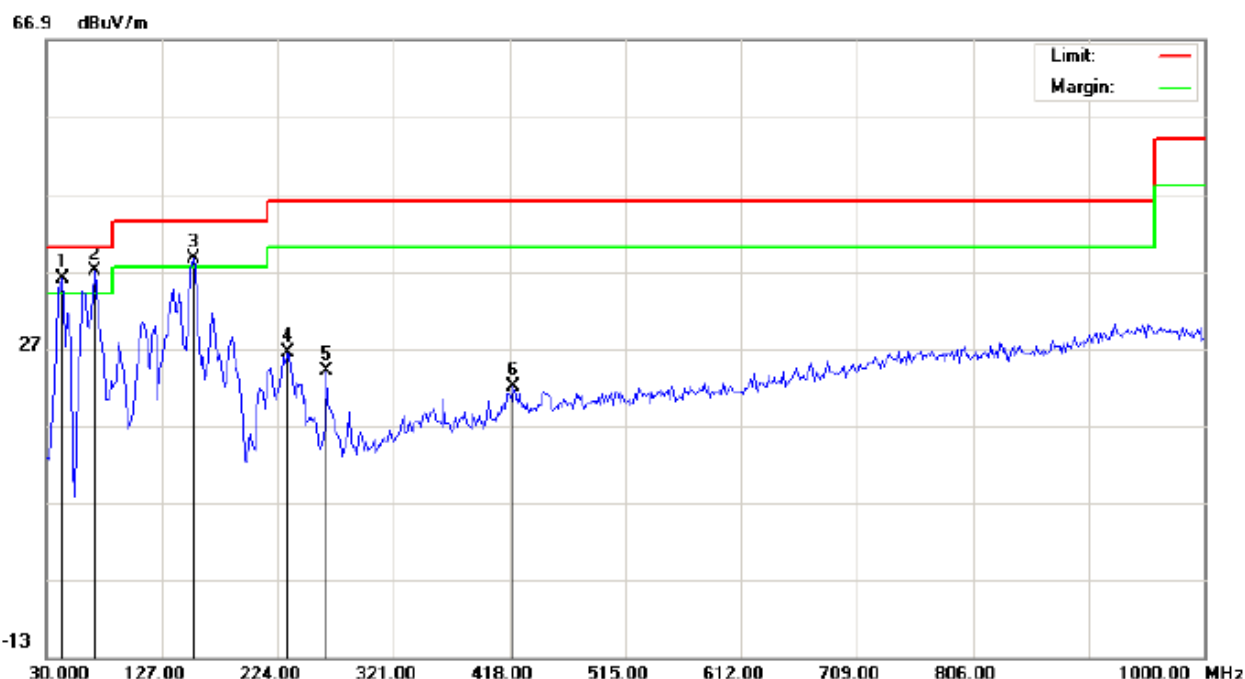


Site: site #1 Polarization: **Horizontal** Temperature: 26  
Limit: FCC Class B 3M Radiation Power: AC 120V/60Hz Humidity: 60 %  
EUT: Gator PLUS Distance:  
M/N: Z350  
Mode: Low Channel TX  
Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 75.2667  | 20.15   | 10.02  | 30.17       | 40.00  | -9.83  | peak     |                |              |         |
| 2   | *  | 112.4500 | 23.10   | 11.34  | 34.44       | 43.50  | -9.06  | peak     |                |              |         |
| 3   |    | 148.0167 | 16.85   | 15.25  | 32.10       | 43.50  | -11.40 | peak     |                |              |         |
| 4   |    | 235.3167 | 16.40   | 13.34  | 29.74       | 46.00  | -16.26 | peak     |                |              |         |
| 5   |    | 406.6833 | 0.01    | 19.27  | 19.28       | 46.00  | -26.72 | peak     |                |              |         |
| 6   |    | 883.6000 | 0.38    | 28.18  | 28.56       | 46.00  | -17.44 | peak     |                |              |         |

RESULT: PASS

# RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Gator PLUS

M/N: Z350

Mode: Low Channel TX

Note:

Polarization: **Vertical**

Power: AC 120V/60Hz

Distance:

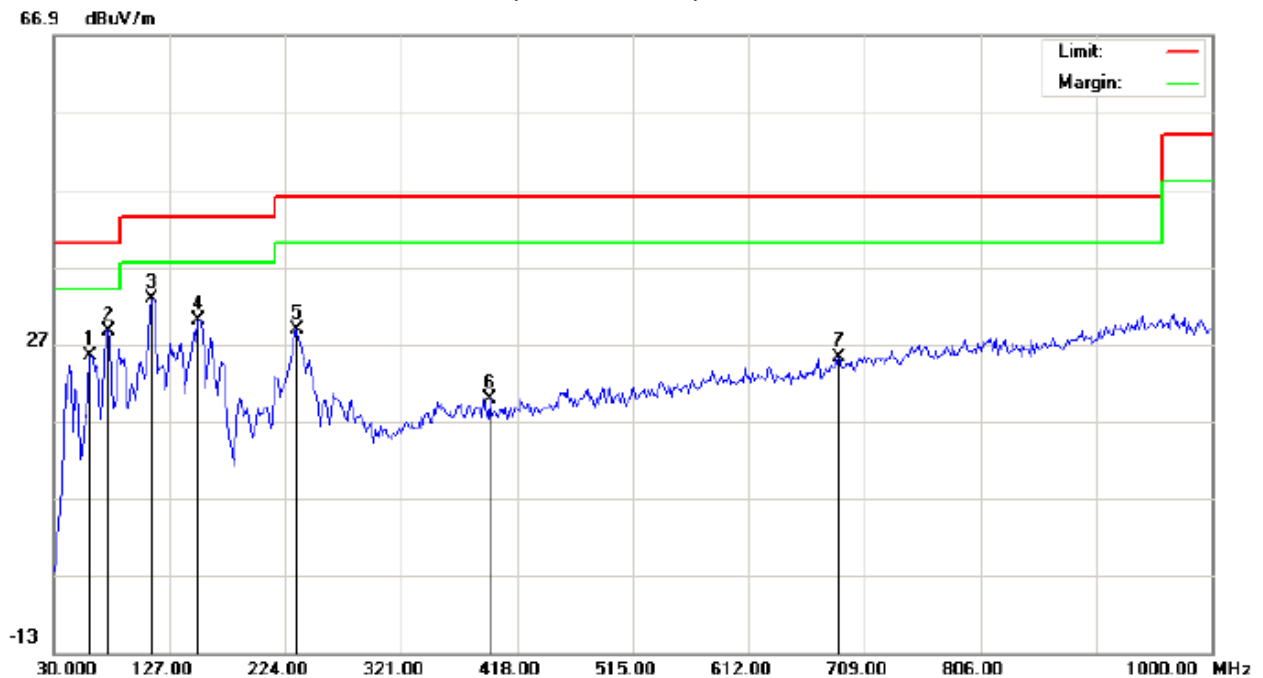
Temperature: 26

Humidity: 60 %

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   | !  | 42.9333  | 27.38   | 8.71   | 36.09       | 40.00  | -3.91  | peak     |                |              |         |
| 2   | *  | 70.4167  | 32.78   | 4.16   | 36.94       | 40.00  | -3.06  | peak     |                |              |         |
| 3   | !  | 152.8667 | 23.35   | 15.28  | 38.63       | 43.50  | -4.87  | peak     |                |              |         |
| 4   |    | 232.0833 | 14.28   | 12.14  | 26.42       | 46.00  | -19.58 | peak     |                |              |         |
| 5   |    | 264.4166 | 9.64    | 14.34  | 23.98       | 46.00  | -22.02 | peak     |                |              |         |
| 6   |    | 421.2333 | 2.32    | 19.72  | 22.04       | 46.00  | -23.96 | peak     |                |              |         |

**RESULT: PASS**

## RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Gator PLUS

M/N: Z350

Mode: Middle Channel TX

Note:

Polarization: *Horizontal*

Power: AC 120V/60Hz

Distance:

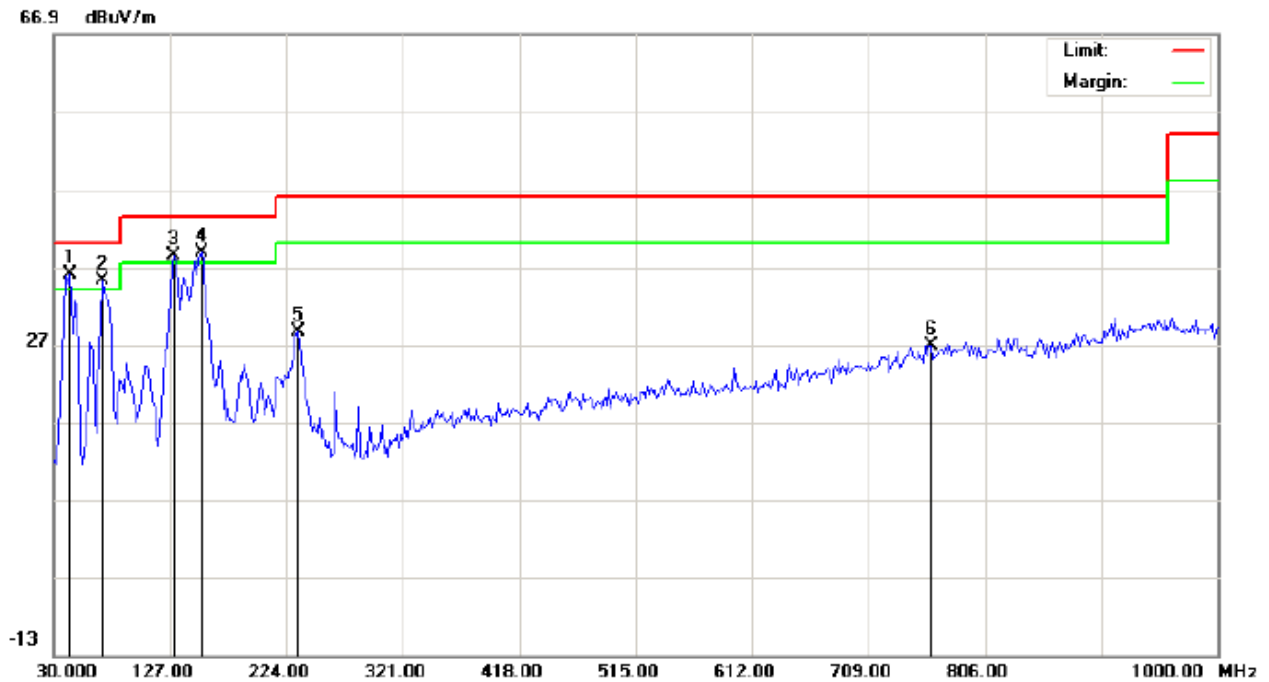
Temperature: 26

Humidity: 60 %

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 60.7167  | 14.36   | 11.09  | 25.45       | 40.00  | -14.55 | peak     |                |              |         |
| 2   |    | 75.2667  | 18.52   | 10.02  | 28.54       | 40.00  | -11.46 | peak     |                |              |         |
| 3   | *  | 112.4500 | 21.38   | 11.34  | 32.72       | 43.50  | -10.78 | peak     |                |              |         |
| 4   |    | 151.2500 | 14.72   | 15.27  | 29.99       | 43.50  | -13.51 | peak     |                |              |         |
| 5   |    | 233.7000 | 15.44   | 13.28  | 28.72       | 46.00  | -17.28 | peak     |                |              |         |
| 6   |    | 395.3667 | 0.84    | 19.04  | 19.88       | 46.00  | -26.12 | peak     |                |              |         |
| 7   |    | 687.9833 | 0.36    | 24.87  | 25.23       | 46.00  | -20.77 | peak     |                |              |         |

**RESULT: PASS**

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL



Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT: Gator PLUS  
M/N: Z350  
Mode: Middle Channel TX  
Note:

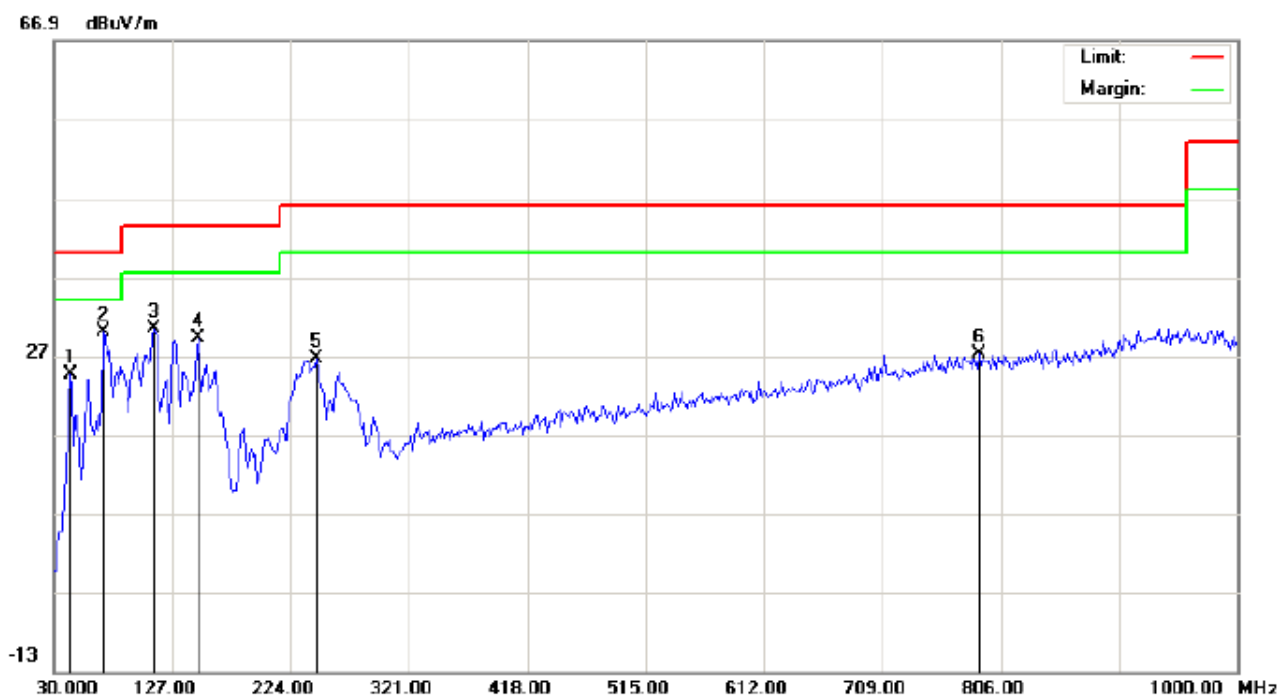
Polarization: **Vertical**  
Power: AC 120V/60Hz  
Distance:

Temperature: 26  
Humidity: 60 %

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   | *  | 42.9333  | 27.36   | 8.71   | 36.07       | 40.00  | -3.93  | peak     |                |              |         |
| 2   | !  | 70.4167  | 31.11   | 4.16   | 35.27       | 40.00  | -4.73  | peak     |                |              |         |
| 3   | !  | 130.2332 | 27.24   | 11.13  | 38.37       | 43.50  | -5.13  | peak     |                |              |         |
| 4   | !  | 152.8667 | 23.52   | 15.28  | 38.80       | 43.50  | -4.70  | peak     |                |              |         |
| 5   |    | 233.7000 | 16.39   | 12.30  | 28.69       | 46.00  | -17.31 | peak     |                |              |         |
| 6   |    | 760.7333 | 0.12    | 26.78  | 26.90       | 46.00  | -19.10 | peak     |                |              |         |

**RESULT: PASS**

# RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Gator PLUS

M/N: Z350

Mode: High Channel TX

Note:

Polarization: *Horizontal*

Power: AC 120V/60Hz

Distance:

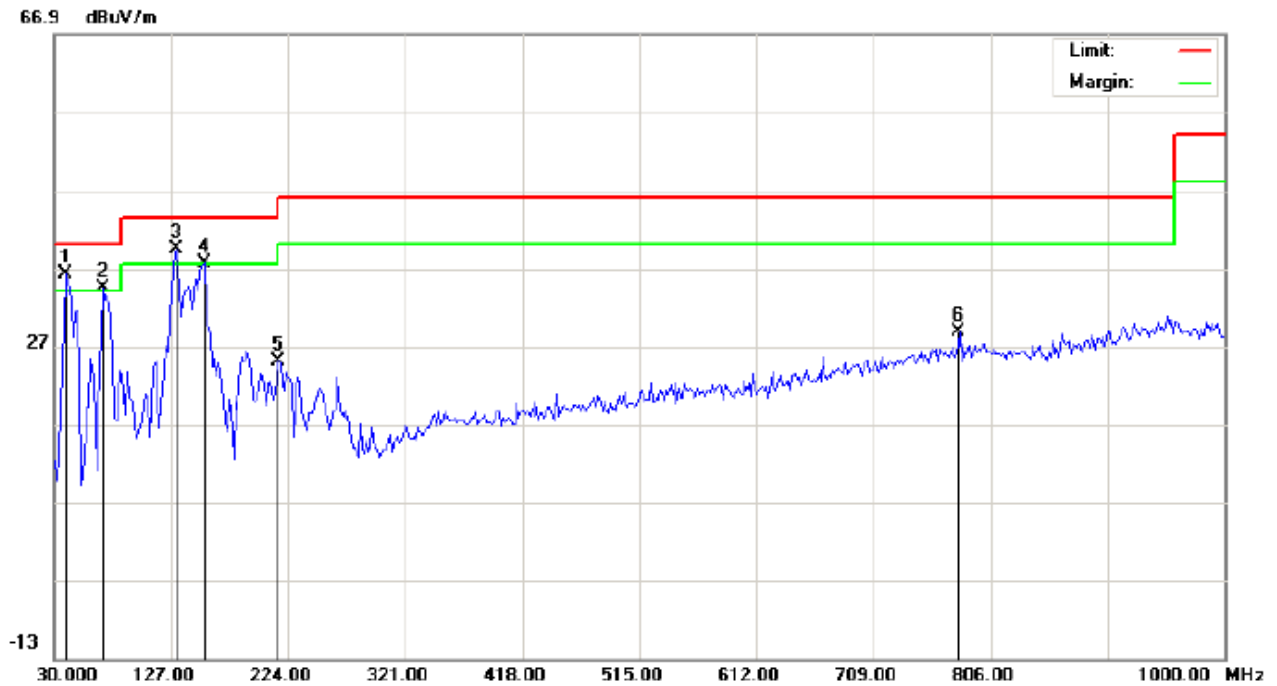
Temperature: 26

Humidity: 60 %

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 42.9333  | 12.83   | 11.71  | 24.54       | 40.00  | -15.46 | peak     |                |              |         |
| 2   | *  | 70.4167  | 19.74   | 10.24  | 29.98       | 40.00  | -10.02 | peak     |                |              |         |
| 3   |    | 112.4500 | 19.10   | 11.34  | 30.44       | 43.50  | -13.06 | peak     |                |              |         |
| 4   |    | 148.0167 | 14.05   | 15.25  | 29.30       | 43.50  | -14.20 | peak     |                |              |         |
| 5   |    | 245.0167 | 12.84   | 13.71  | 26.55       | 46.00  | -19.45 | peak     |                |              |         |
| 6   |    | 788.2167 | 0.13    | 27.16  | 27.29       | 46.00  | -18.71 | peak     |                |              |         |

RESULT: PASS

## RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Gator PLUS

Distance:

M/N: Z350

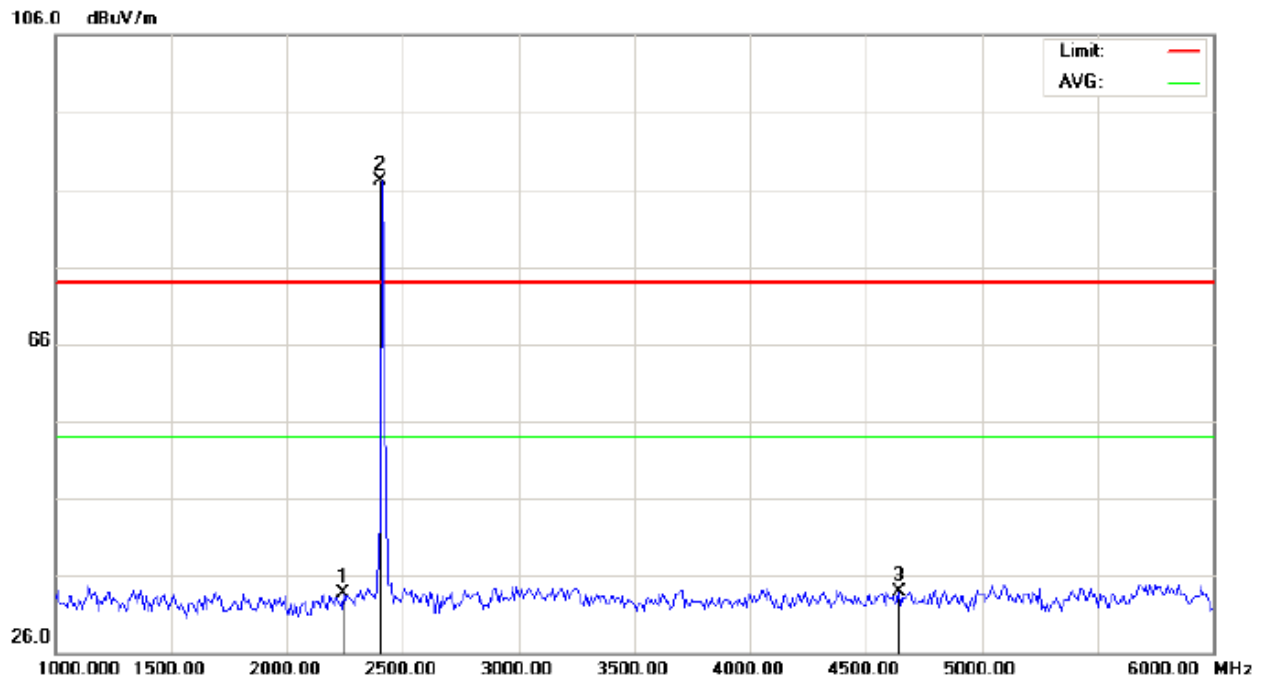
Mode: High Channel TX

Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   | *  | 39.7000  | 27.67   | 8.51   | 36.18       | 40.00  | -3.82  | peak     |                |              |         |
| 2   | !  | 70.4167  | 30.25   | 4.16   | 34.41       | 40.00  | -5.59  | peak     |                |              |         |
| 3   | !  | 131.8500 | 27.53   | 11.80  | 39.33       | 43.50  | -4.17  | peak     |                |              |         |
| 4   | !  | 154.4832 | 22.32   | 15.29  | 37.61       | 43.50  | -5.89  | peak     |                |              |         |
| 5   |    | 215.9167 | 14.48   | 10.56  | 25.04       | 43.50  | -18.46 | peak     |                |              |         |
| 6   |    | 780.1332 | 1.75    | 27.05  | 28.80       | 46.00  | -17.20 | peak     |                |              |         |

**RESULT: PASS****Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

**RADIATED EMISSION ABOVE 1GHZ****RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL**

Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Gator PLUS

Distance:

M/N: Z350

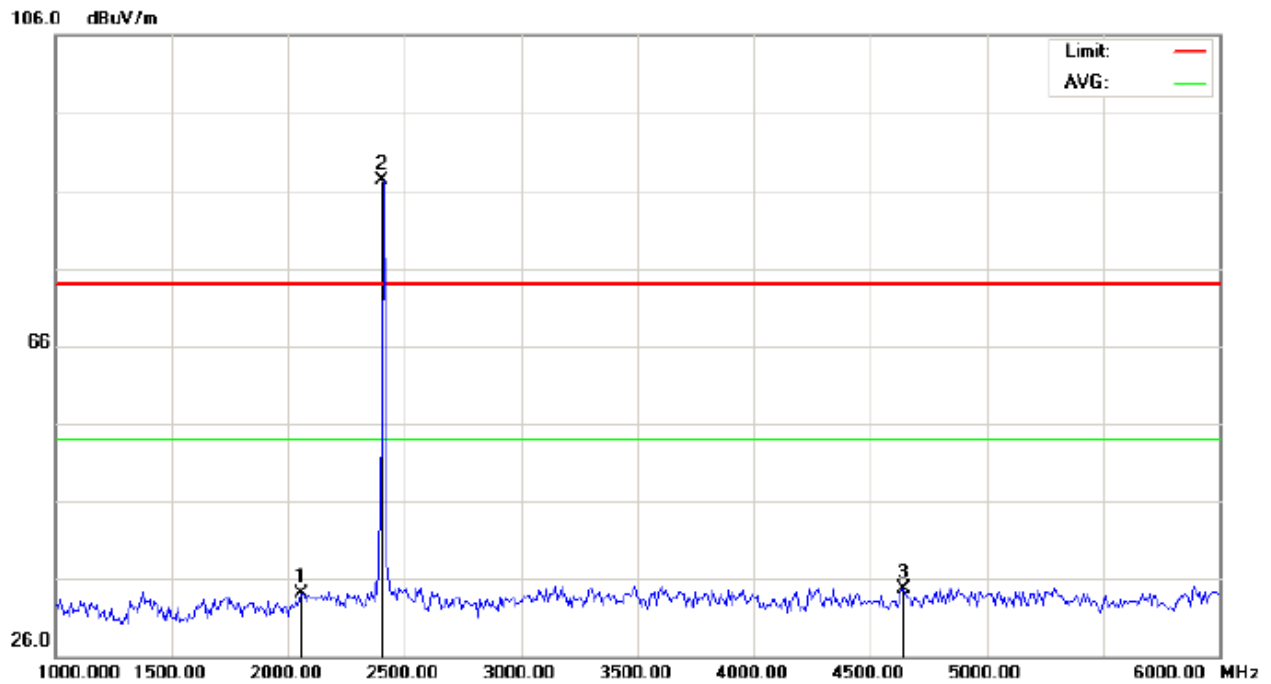
Mode: Low Channel TX

Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2241.667 | 43.57   | -9.85  | 33.72       | 74.00  | -40.28 | peak     |                |              |         |
| 2   | *  | 2402.000 | 96.83   | -9.68  | 87.15       | 74.00  | 13.15  | peak     |                |              |         |
| 3   |    | 4641.667 | 36.63   | -2.74  | 33.89       | 74.00  | -40.11 | peak     |                |              |         |

**RESULT: PASS**

# RADIATED EMISSION TEST-(ABOVE 1GHZ)-LOW CHANNEL-VERTICAL

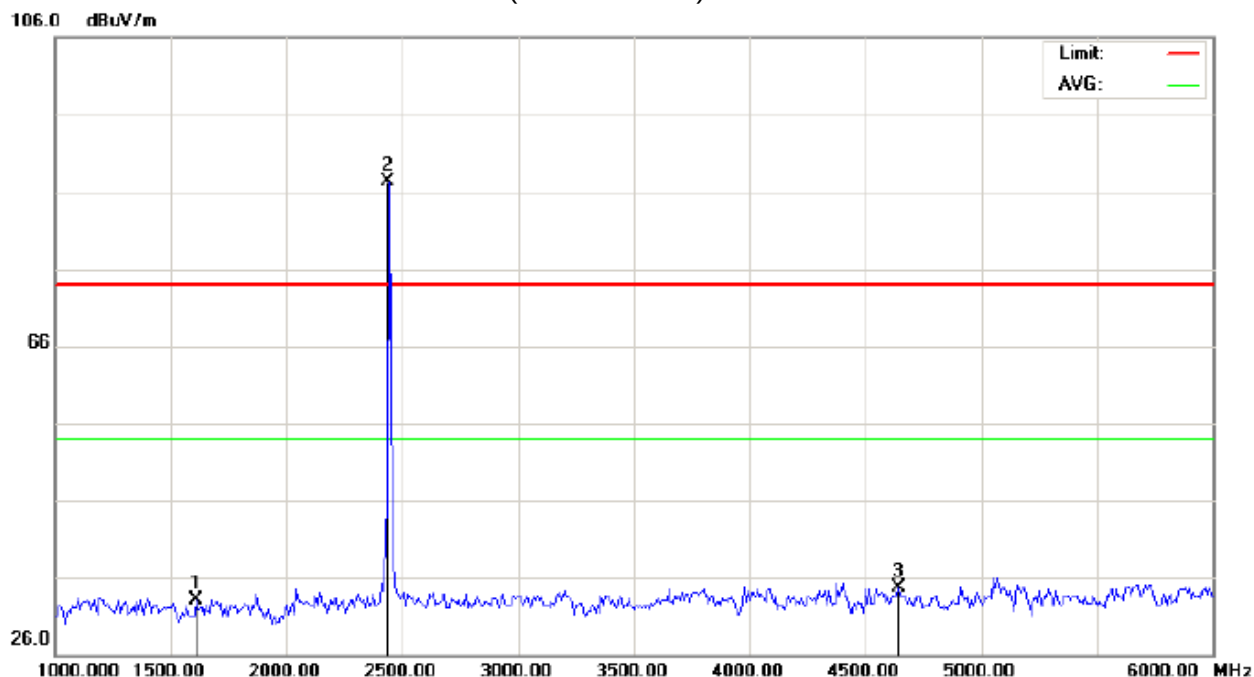


Site: site #1 Polarization: **Vertical** Temperature: 26  
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
EUT: Gator PLUS Distance:  
M/N: Z350  
Mode: Low Channel TX  
Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2058.333 | 44.12   | -10.06 | 34.06       | 74.00  | -39.94 | peak     |                |              |         |
| 2   | *  | 2402.000 | 97.08   | -9.68  | 87.40       | 74.00  | 13.40  | peak     |                |              |         |
| 3   |    | 4641.667 | 37.52   | -2.74  | 34.78       | 74.00  | -39.22 | peak     |                |              |         |

**RESULT: PASS**

# RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL

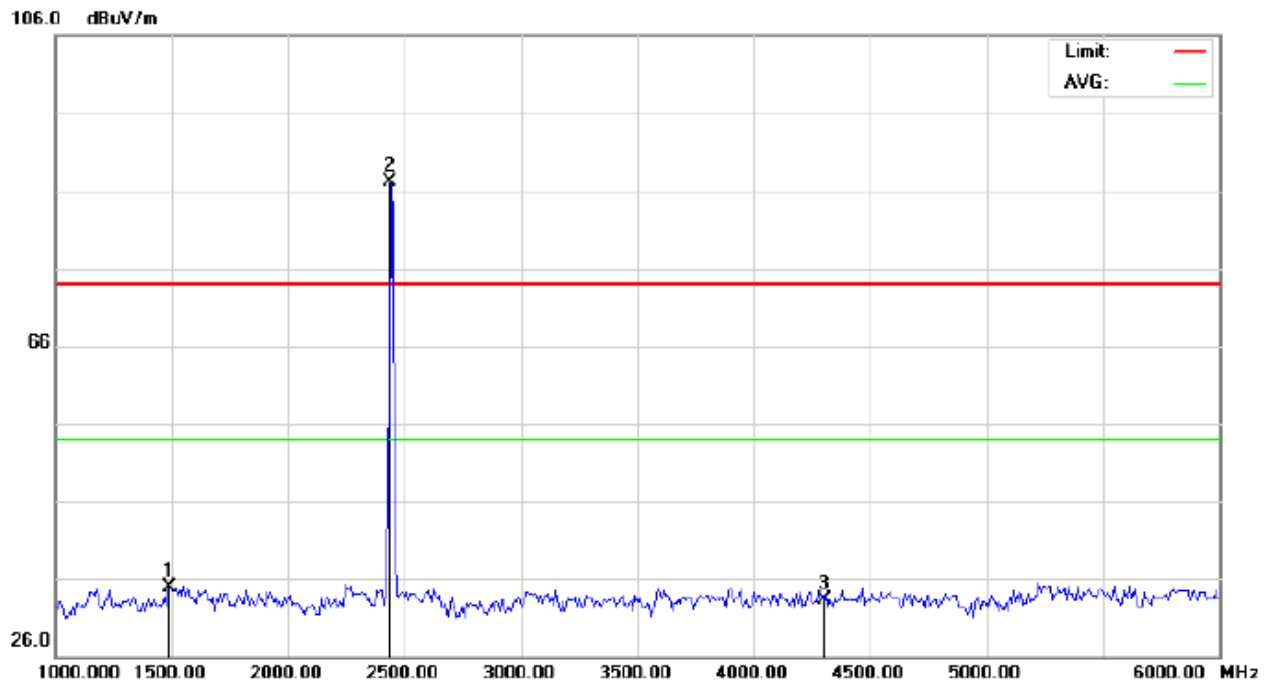


Site: site #1 Polarization: **Horizontal** Temperature: 26  
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
EUT: Gator PLUS Distance:  
M/N: Z350  
Mode: Middle Channel TX  
Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 1608.333 | 47.35   | -14.24 | 33.11       | 74.00  | -40.89 | peak     |                |              |         |
| 2   | *  | 2440.000 | 96.88   | -9.64  | 87.24       | 74.00  | 13.24  | peak     |                |              |         |
| 3   |    | 4641.667 | 37.43   | -2.74  | 34.69       | 74.00  | -39.31 | peak     |                |              |         |

**RESULT: PASS**

## RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-VERTICAL



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Gator PLUS

Distance:

M/N: Z350

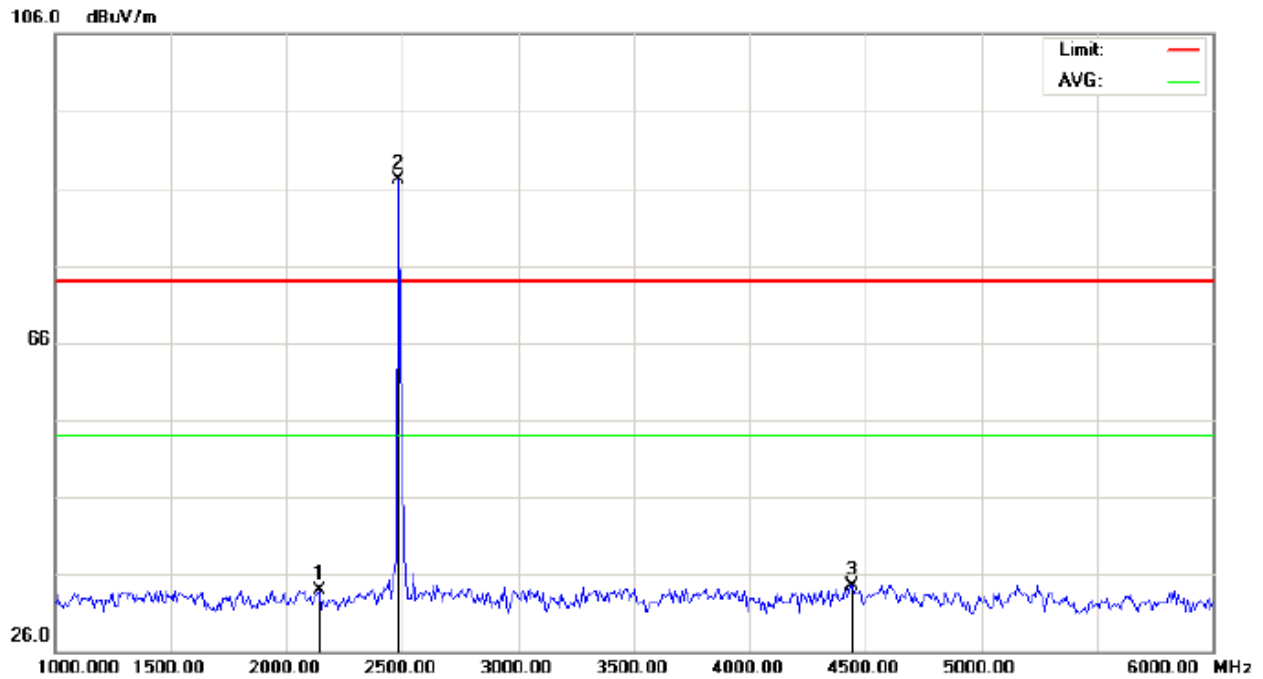
Mode: Middle Channel TX

Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 1491.667 | 50.33   | -15.38 | 34.95       | 74.00  | -39.05 | peak     |                |              |         |
| 2   | *  | 2440.000 | 96.81   | -9.64  | 87.17       | 74.00  | 13.17  | peak     |                |              |         |
| 3   |    | 4300.000 | 37.18   | -3.79  | 33.39       | 74.00  | -40.61 | peak     |                |              |         |

**RESULT: PASS**

# RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL

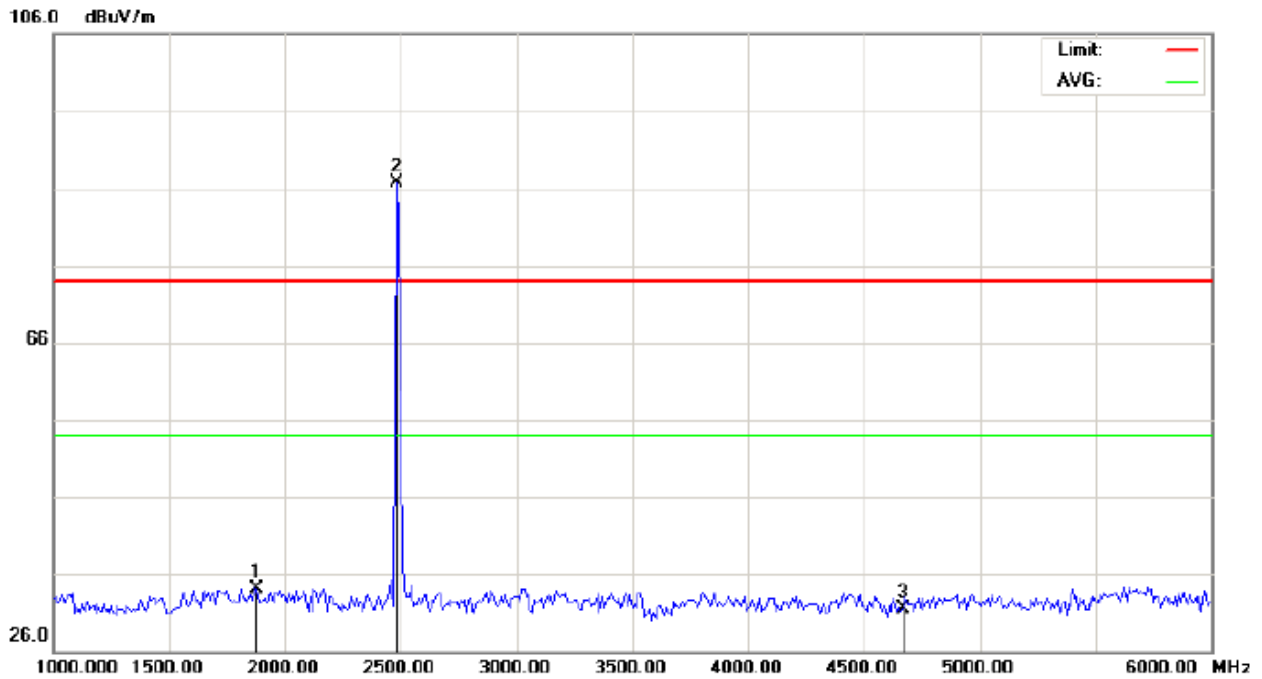


Site: site #1 Polarization: **Horizontal** Temperature: 26  
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
EUT: Gator PLUS Distance:  
M/N: Z350  
Mode: High Channel TX  
Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2141.667 | 43.94   | -9.96  | 33.98       | 74.00  | -40.02 | peak     |                |              |         |
| 2   | *  | 2480.000 | 96.67   | -9.59  | 87.08       | 74.00  | 13.08  | peak     |                |              |         |
| 3   |    | 4441.667 | 37.75   | -3.31  | 34.44       | 74.00  | -39.56 | peak     |                |              |         |

**RESULT: PASS**

# RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 26  
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
EUT: Gator PLUS Distance:  
M/N: Z350  
Mode: High Channel TX  
Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 1875.000 | 45.60   | -11.43 | 34.17       | 74.00  | -39.83 | peak     |                |              |         |
| 2   | *  | 2480.000 | 96.38   | -9.59  | 86.79       | 74.00  | 12.79  | peak     |                |              |         |
| 3   |    | 4666.667 | 34.27   | -2.67  | 31.60       | 74.00  | -42.40 | peak     |                |              |         |

## RESULT: PASS

**Note:** 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor+ Cable loss-Amplifier gain,

Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

## 8. BAND EDGE EMISSION

### 8.1. MEASUREMENT PROCEDURE

#### 1) Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

#### 2) Conducted Emissions at the bang edge

a) The transmitter output was connected to the spectrum analyzer

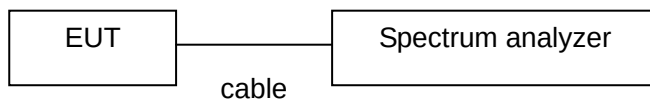
b) Set RBW=100kHz, VBW=300kHz

c) Suitable frequency span including 100kHz bandwidth from band edge

### 8.2. TEST SET-UP

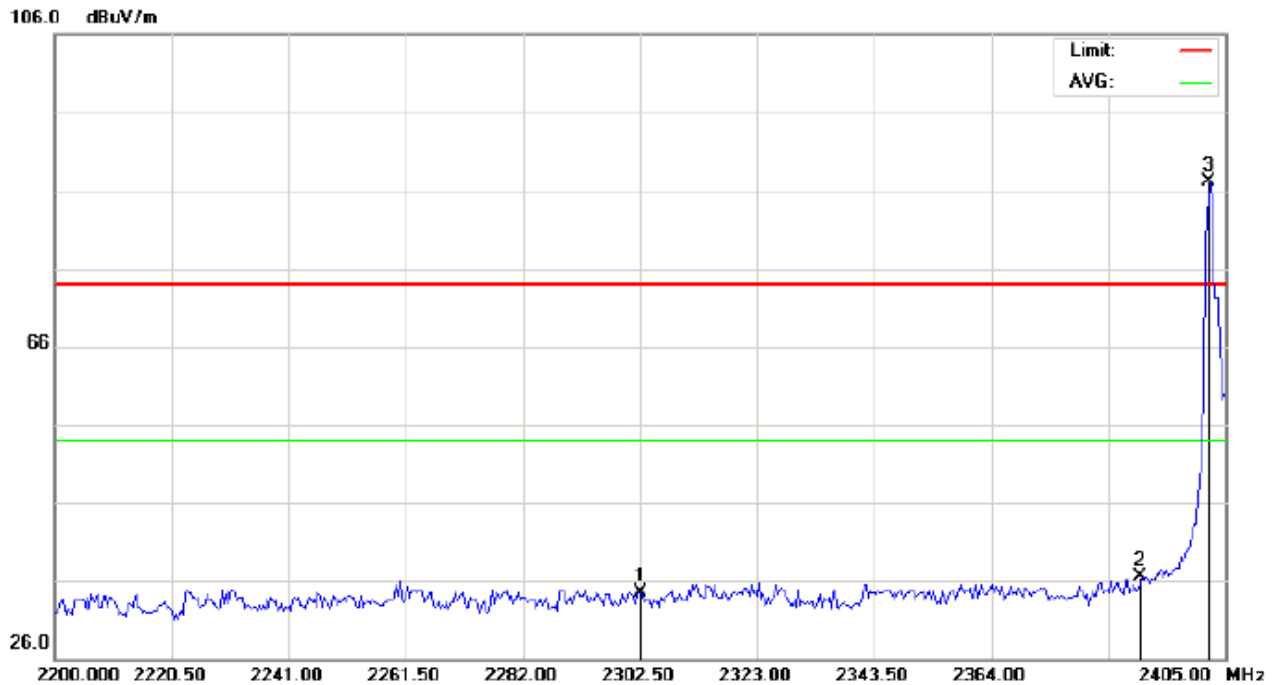
Radiated same as 6.2

Conducted set up



### 8.3. Radiated Test Result

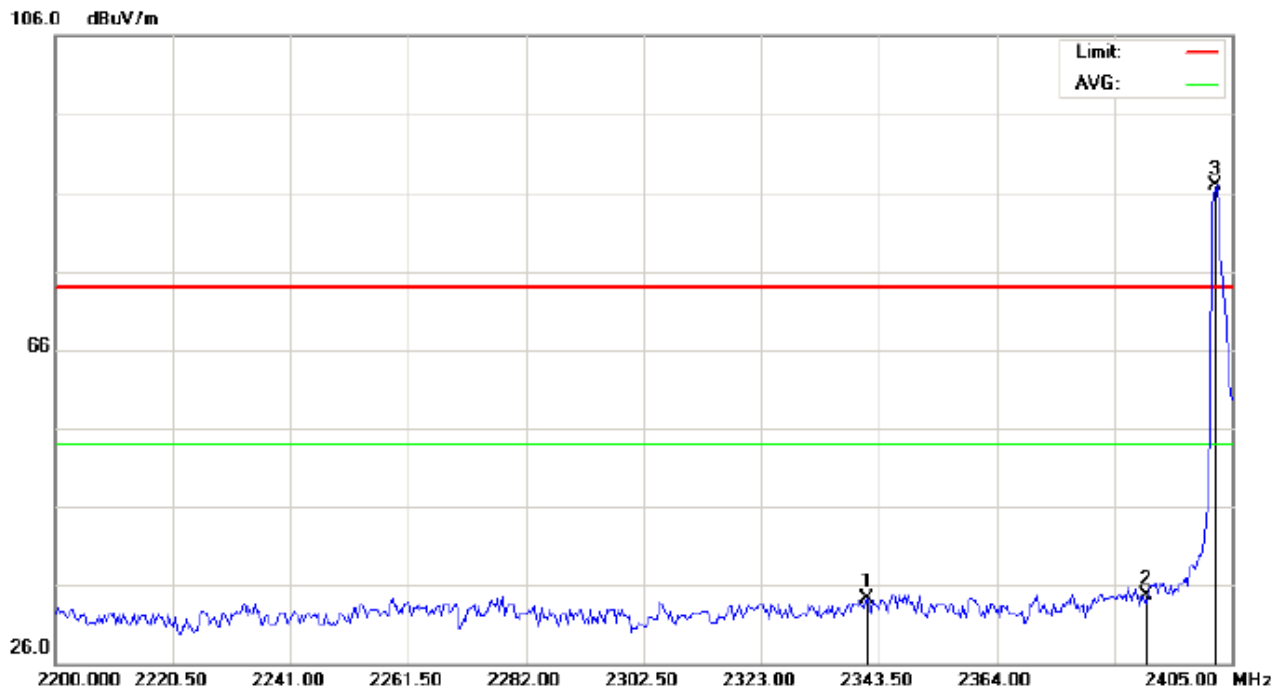
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Horizontal



Site: site #1 Polarization: *Horizontal* Temperature: 26  
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
EUT: Gator PLUS Distance:  
M/N: Z350  
Mode: Low Channel TX  
Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2302.500 | 44.28   | -9.79  | 34.49       | 74.00  | -39.51 | peak     |                |              |         |
| 2   |    | 2390.000 | 46.21   | -9.69  | 36.52       | 74.00  | -37.48 | peak     |                |              |         |
| 3   | *  | 2402.000 | 96.74   | -9.68  | 87.06       | 74.00  | 13.06  | peak     |                |              |         |

## TEST PLOT OF BAND EDGE FOR LOW CHANNEL - Vertical



Site: site #1

Polarization: *Vertical*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Gator PLUS

Distance:

M/N: Z350

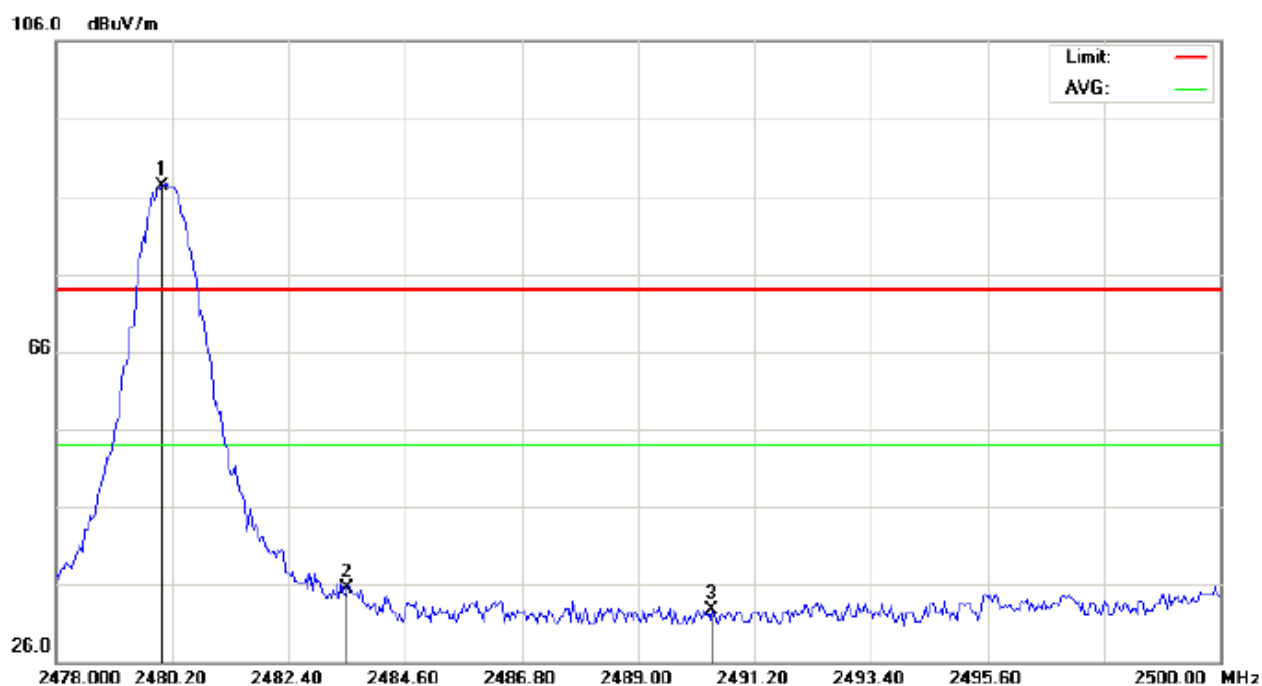
Mode: Low Channel TX

Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 2341.450 | 44.08   | -9.74  | 34.34       | 74.00  | -39.66 | peak     |                |              |         |
| 2   |    | 2390.000 | 44.34   | -9.69  | 34.65       | 74.00  | -39.35 | peak     |                |              |         |
| 3   | *  | 2402.000 | 96.49   | -9.68  | 86.81       | 74.00  | 12.81  | peak     |                |              |         |

**RESULT: PASS**

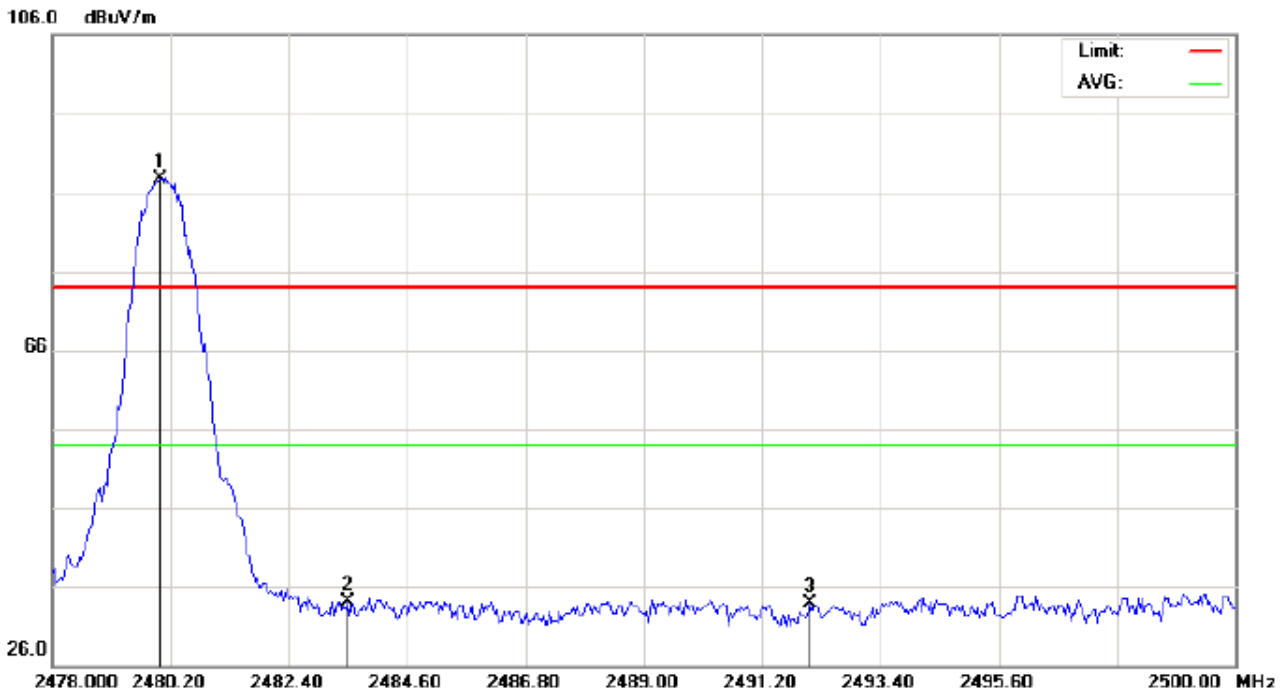
# TEST PLOT OF BAND EDGE FOR HIGH CHANNEL –Horizontal



Site: site #1 Polarization: **Horizontal** Temperature: 26  
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
EUT: Gator PLUS Distance:  
M/N: Z350  
Mode: High Channel TX  
Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   | *  | 2480.000 | 96.96   | -9.59  | 87.37       | 74.00  | 13.37  | peak     |                |              |         |
| 2   |    | 2483.500 | 45.06   | -9.59  | 35.47       | 74.00  | -38.53 | peak     |                |              |         |
| 3   |    | 2490.393 | 42.36   | -9.58  | 32.78       | 74.00  | -41.22 | peak     |                |              |         |

## TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Vertical



Site: site #1

Polarization: *Vertical*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: Gator PLUS

Distance:

M/N: Z350

Mode: High Channel TX

Note:

| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   | *  | 2480.000 | 97.26   | -9.59  | 87.67       | 74.00  | 13.67  | peak     |                |              |         |
| 2   |    | 2483.500 | 43.62   | -9.59  | 34.03       | 74.00  | -39.97 | peak     |                |              |         |
| 3   |    | 2492.080 | 43.52   | -9.58  | 33.94       | 74.00  | -40.06 | peak     |                |              |         |

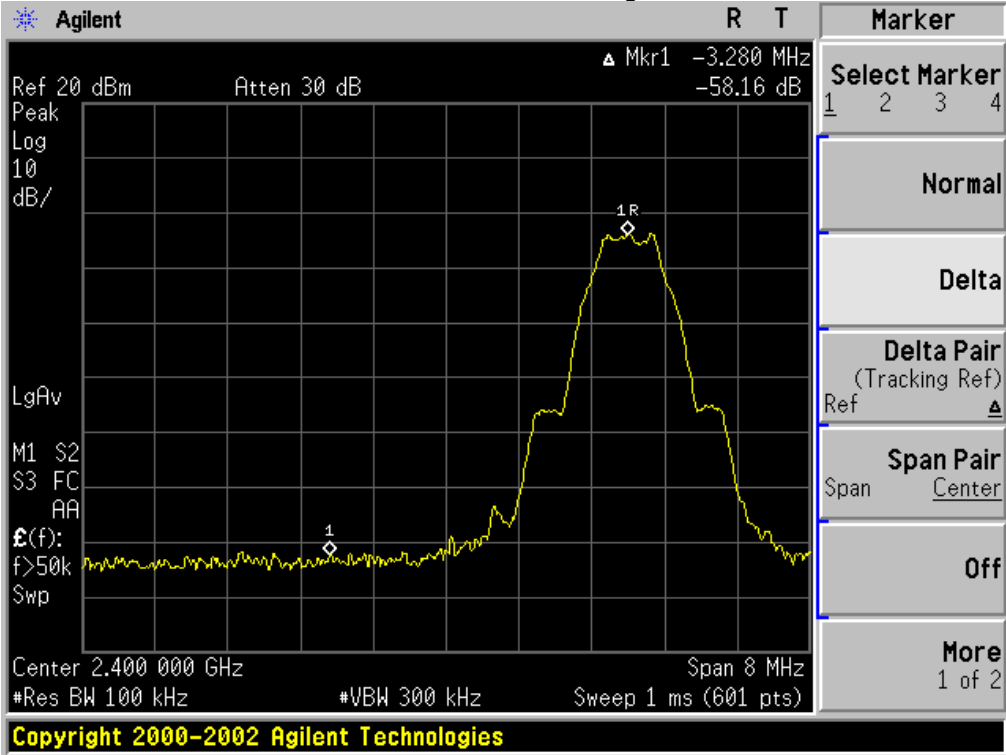
**RESULT: PASS****Note:** The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

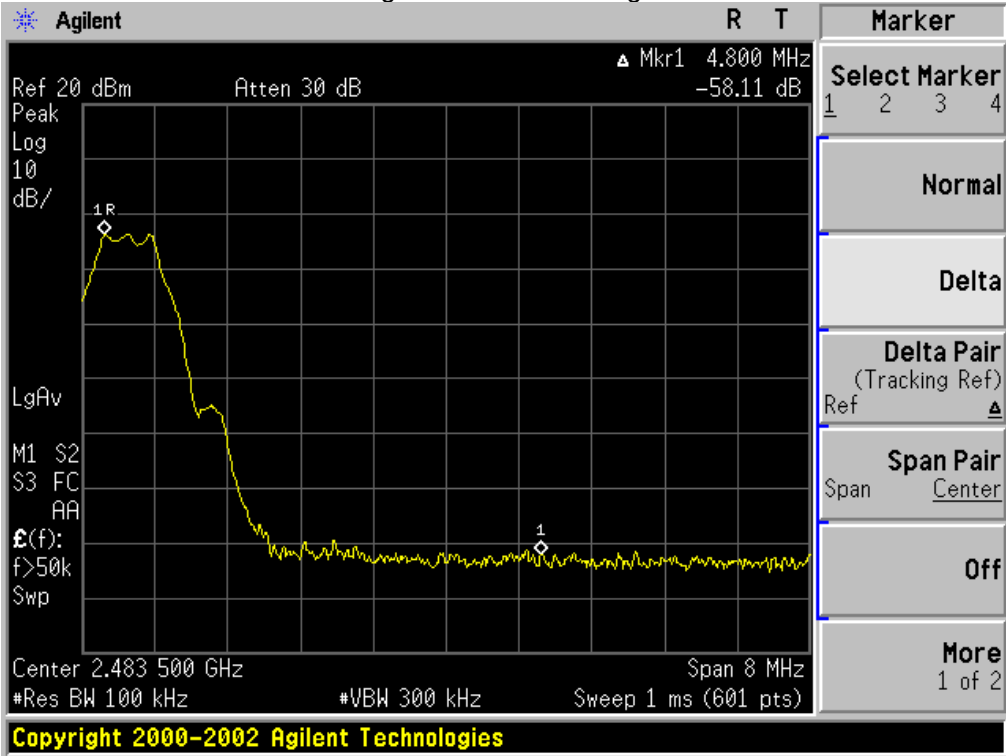
The "Factor" value can be calculated automatically by software of measurement system.

8.3. Conducted Test Result

Low channel band edge



High channel band edge



## 9. 6DB BANDWIDTH

### 9.1. TEST EQUIPMENT LIST AND DETAILS

| Equipment                       | Manufacturer | Model  | S/N        | Cal. Date  | Cal. Due   |
|---------------------------------|--------------|--------|------------|------------|------------|
| PSA SERIES<br>SPECTRUM ANALYZER | AGILENT      | E4440A | US41421290 | 07/16/2014 | 07/15/2015 |
| RECEIVER ANTENNA                | ETS          | 2175   | 57337      | 07/16/2014 | 07/15/2015 |

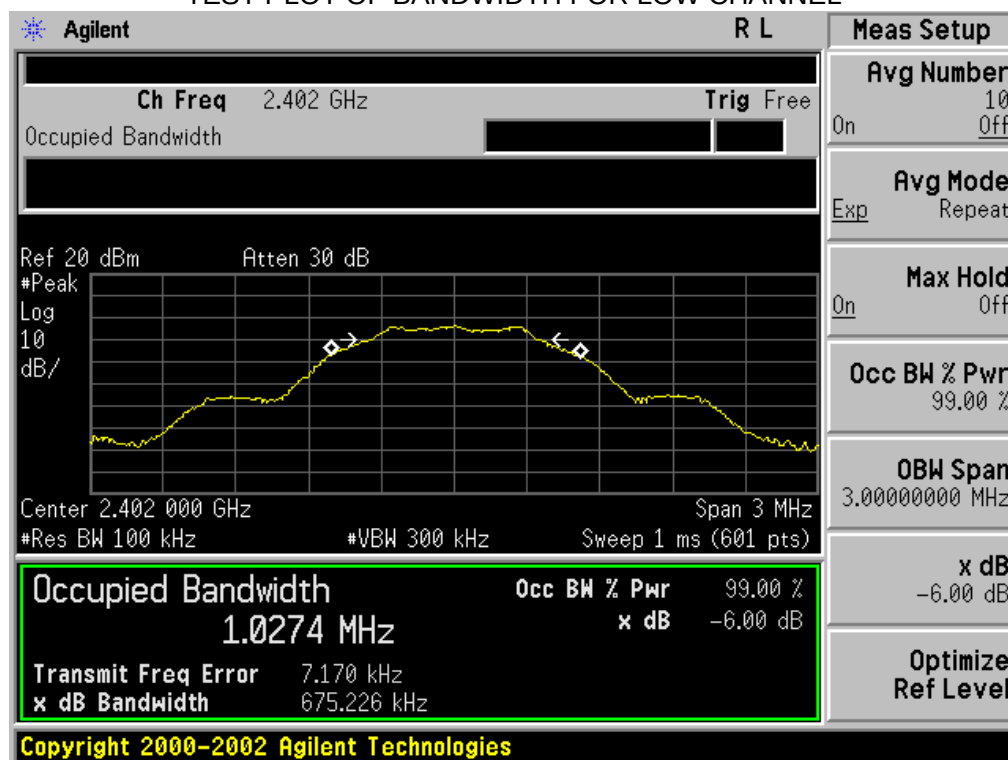
### 9.2. TEST PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq$ RBW.
4. Set SPA Trace 1 Max hold, then View.

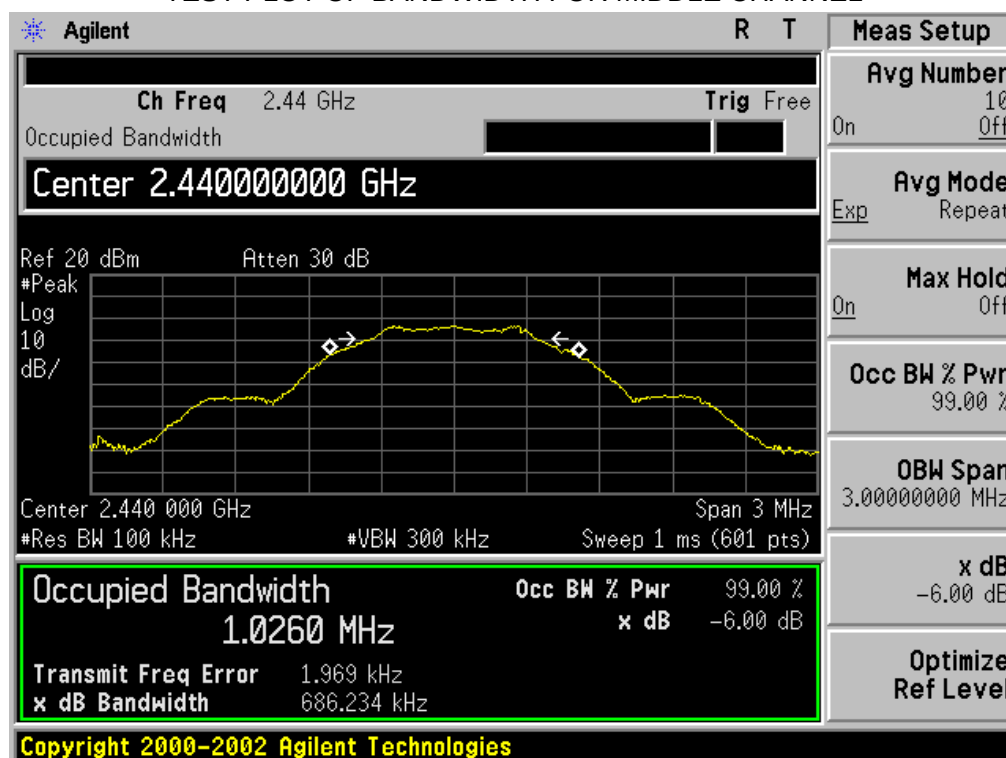
### 9.3. SUMMARY OF TEST RESULTS/PLOTS

| Channel | 6dB Bandwidth (KHz) | Minimum Limit (KHz) | Pass/Fail |
|---------|---------------------|---------------------|-----------|
| Low     | 675.226             | 500KHz              | Pass      |
| Middle  | 686.234             |                     | Pass      |
| High    | 677.111             |                     | Pass      |

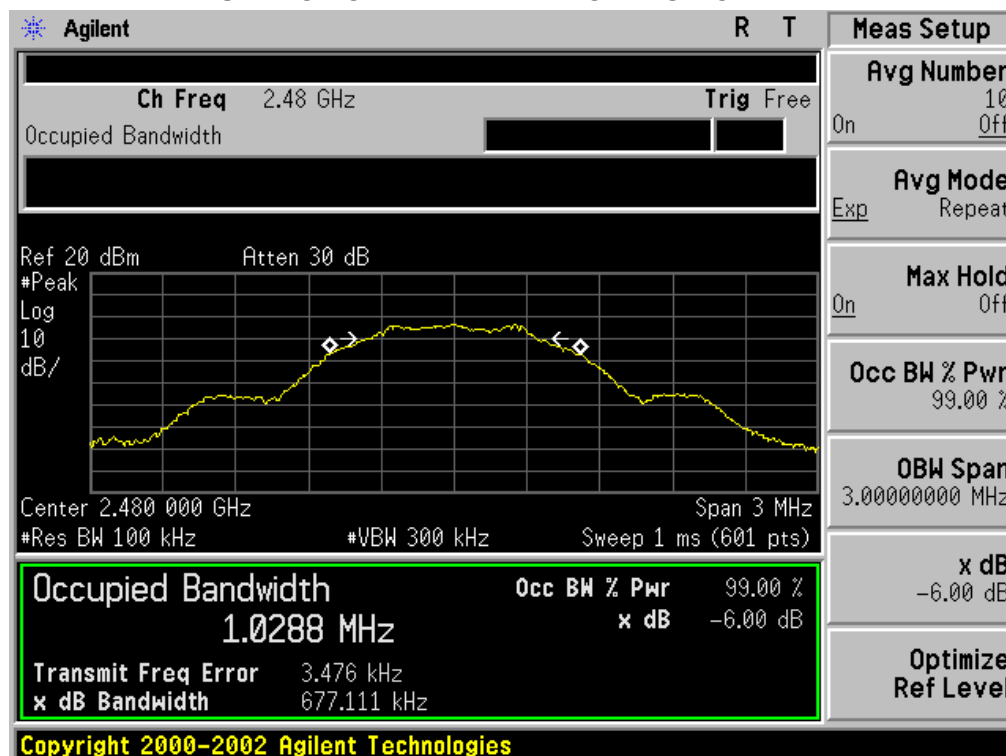
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



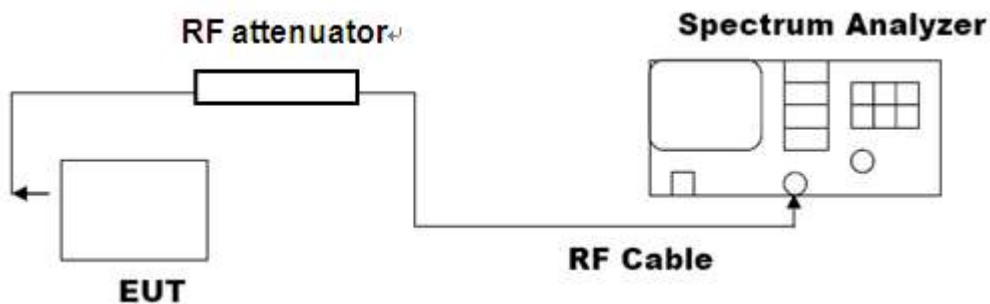
## 10. CONDUCTED OUTPUT POWER

### 10.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
3. Use the following spectrum analyzer settings:  
Set the RBW  $\geq$  DTS bandwidth  
Set the VBW  $\geq$  3 x RBW  
Set the span  $\geq$  3 x RBW  
Detector = peak  
Sweep time = auto couple  
Trace mode = max hold
4. Allow the trace to stabilize. Use peak marker function to determine the peak amplitude level
5. Record the result form the Spectrum Analyzer.

**Note:** The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

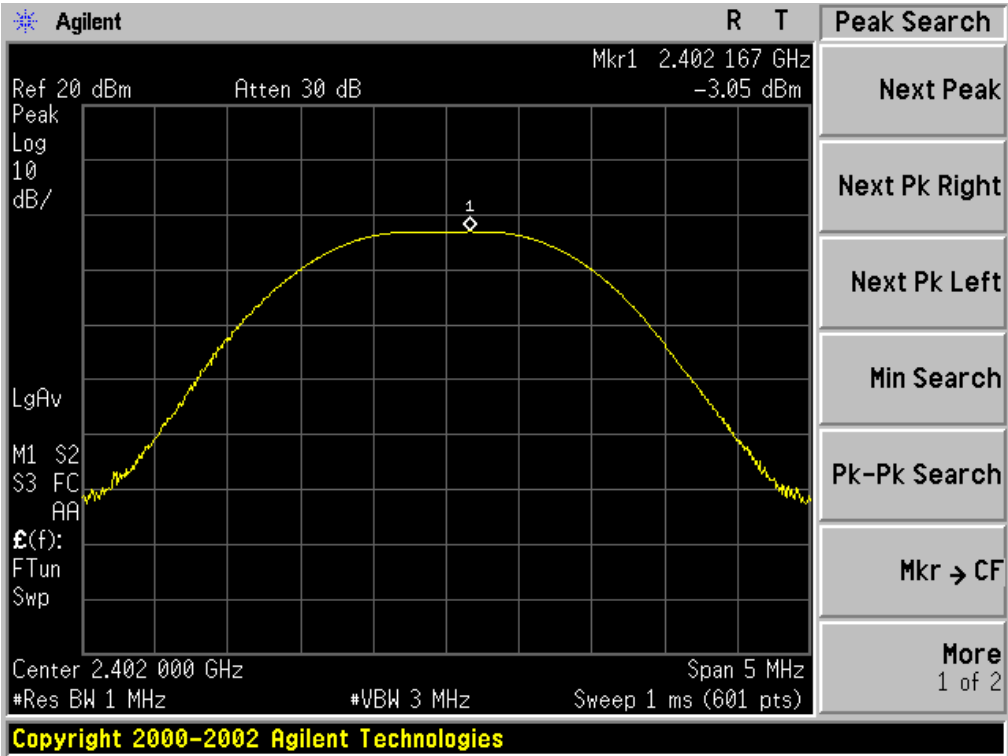
### 10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



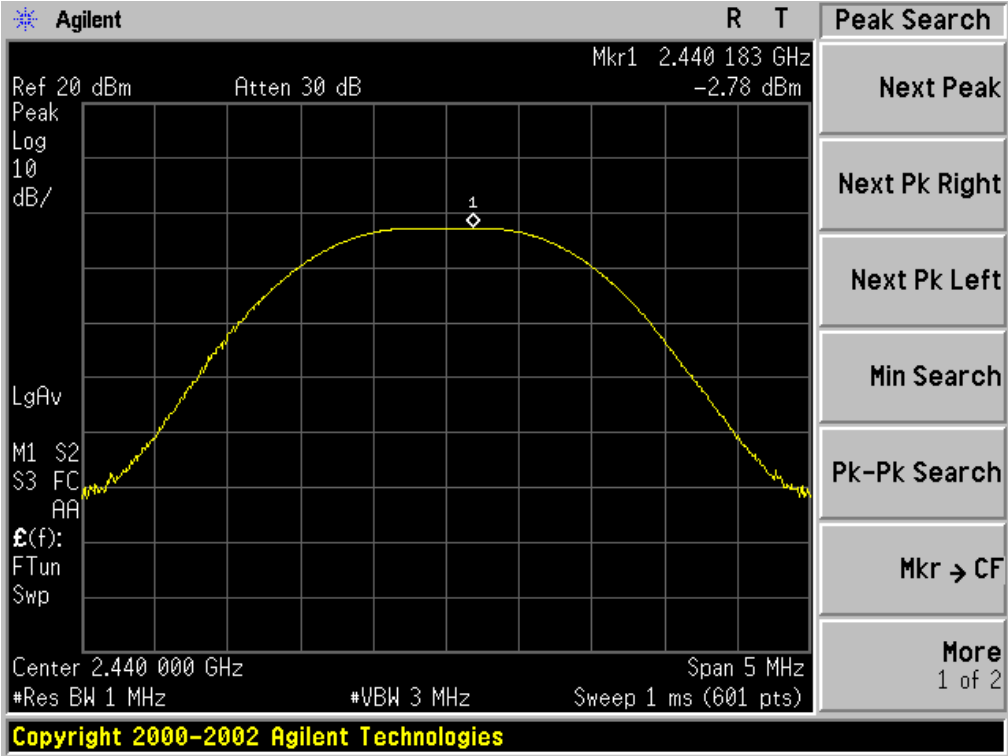
### 10.3. LIMITS AND MEASUREMENT RESULT

| Channel        | Peak Power (dBm) | Applicable Limits (dBm) | Pass/Fail |
|----------------|------------------|-------------------------|-----------|
| Low Channel    | -3.05            | 20                      | Pass      |
| Middle Channel | -2.78            | 20                      | Pass      |
| High Channel   | -2.88            | 20                      | Pass      |

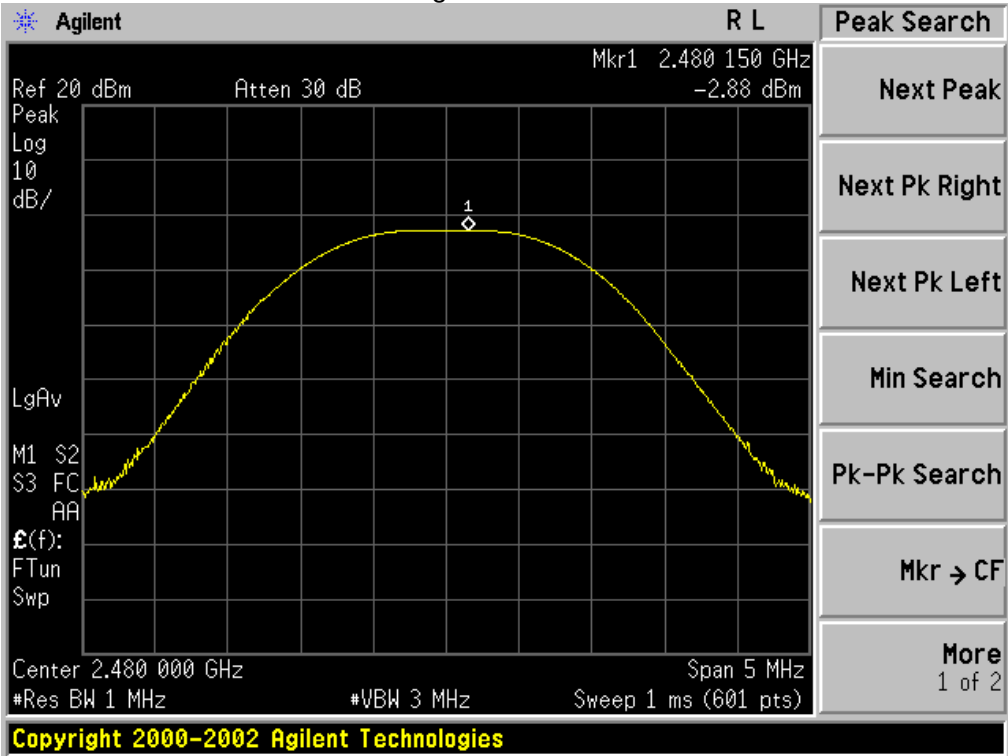
The Low Channel Result



The Middle Channel Result



The High Channel Result



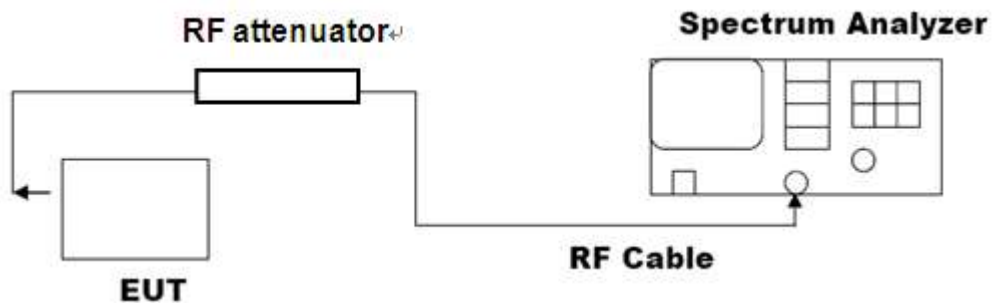
## 11. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

### 11.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

### 11.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



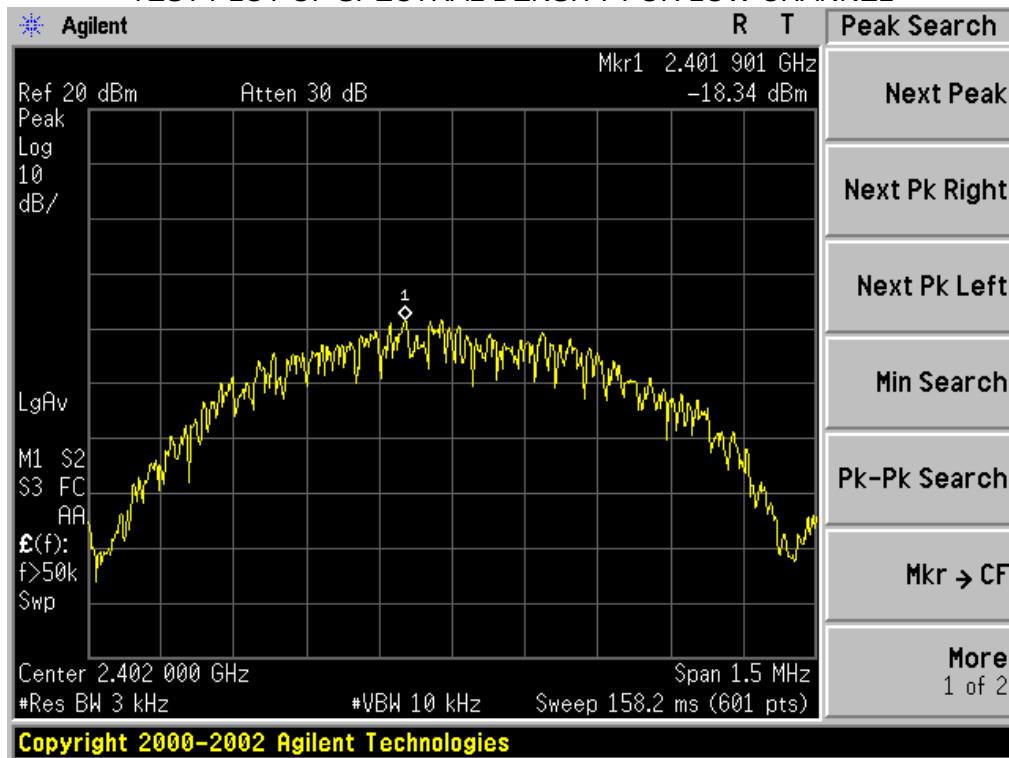
### 11.3 MEASUREMENT EQUIPMENT USED

| Equipment                       | Manufacturer | Model  | S/N        | Cal. Date  | Cal. Due   |
|---------------------------------|--------------|--------|------------|------------|------------|
| PSA SERIES<br>SPECTRUM ANALYZER | AGILENT      | E4440A | US41421290 | 07/16/2014 | 07/15/2015 |
| RECEIVER ANTENNA                | ETS          | 2175   | 57337      | 07/16/2014 | 07/15/2015 |

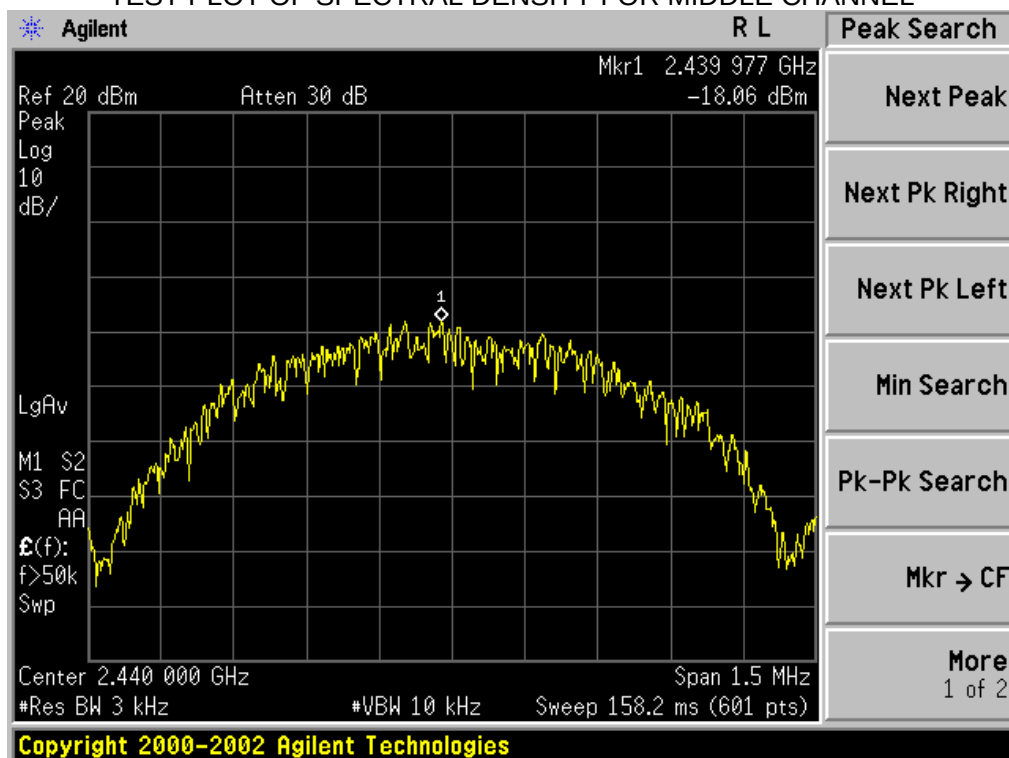
### 11.4 LIMITS AND MEASUREMENT RESULT

| Channel No.    | PSD<br>(dBm) | Limit<br>(dBm) | Result |
|----------------|--------------|----------------|--------|
| Low Channel    | -18.34       | 8              | Pass   |
| Middle Channel | -18.06       | 8              | Pass   |
| High Channel   | -18.28       | 8              | Pass   |

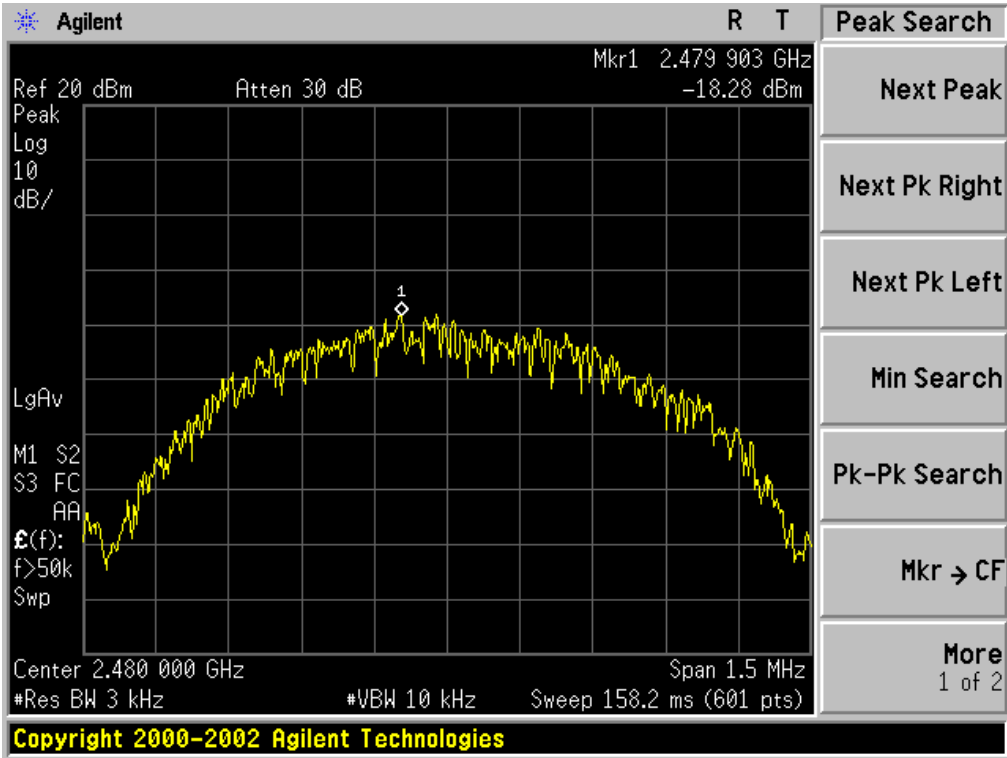
### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



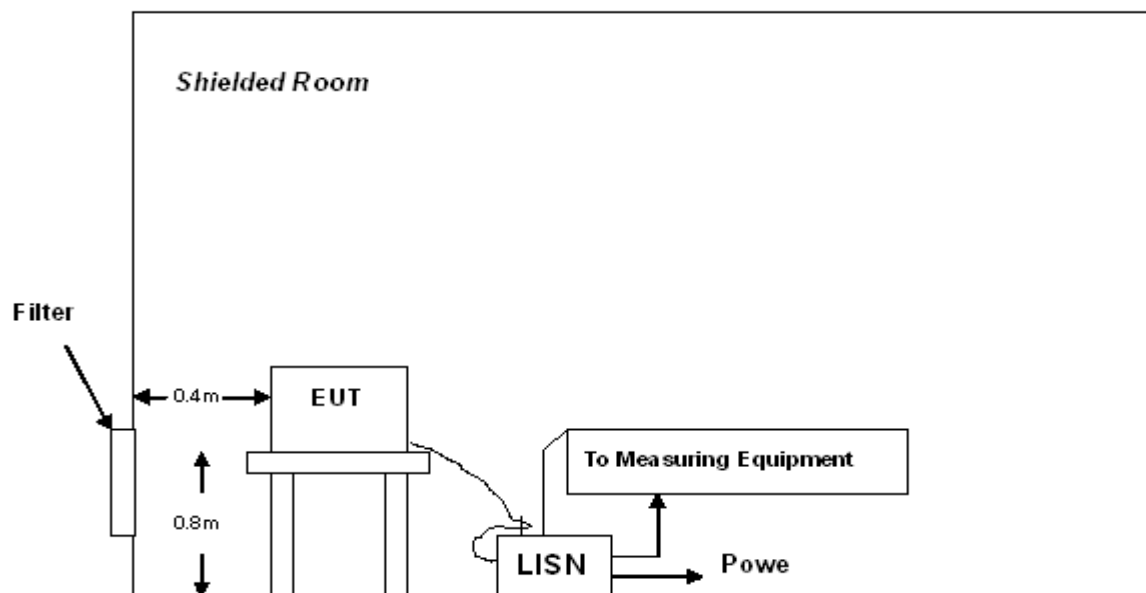
## 12. FCC LINE CONDUCTED EMISSION TEST

### 12.1 LIMITS

| Frequency     | Maximum RF Line Voltage |                |
|---------------|-------------------------|----------------|
|               | Q.P.( dBuV)             | Average( dBuV) |
| 150kHz~500kHz | 66-56                   | 56-46          |
| 500kHz~5MHz   | 56                      | 46             |
| 5MHz~30MHz    | 60                      | 50             |

**\*\*Note:** 1. The lower limit shall apply at the transition frequency.  
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

### 12.2 TEST SETUP



**A: Powered through filter**

### 12.3 PRELIMINARY PROCEDURE

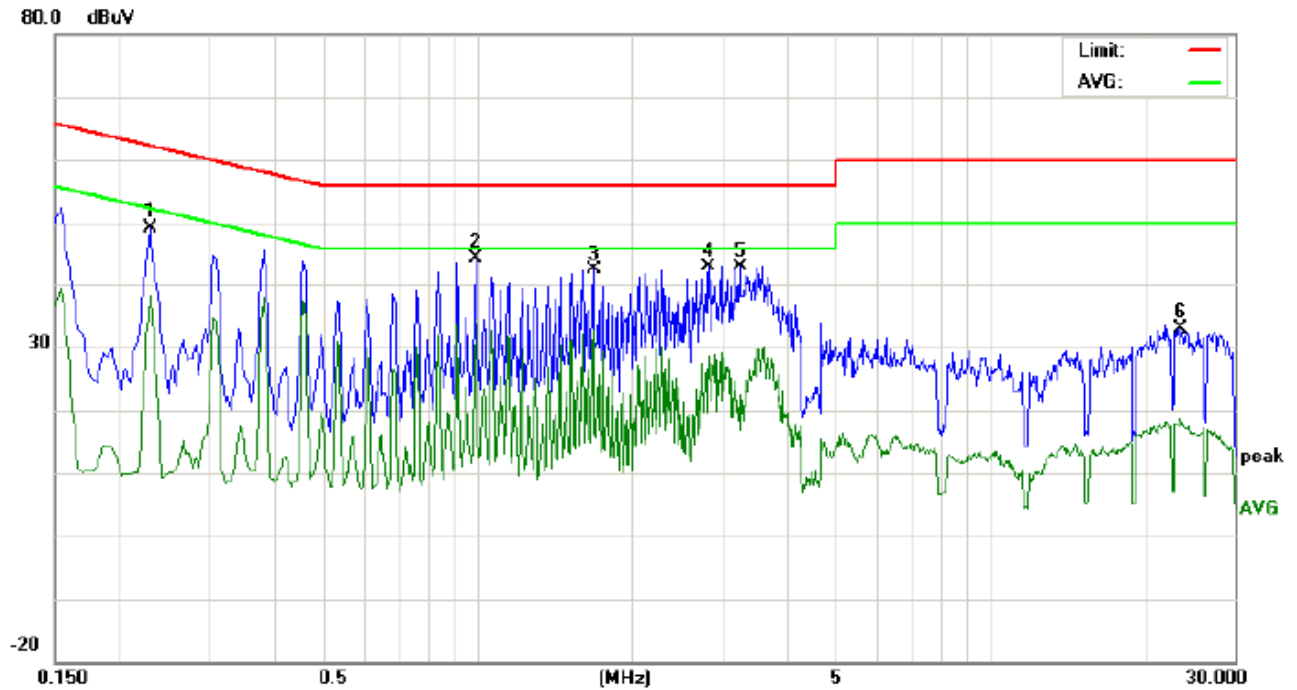
- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) All support equipments received AC120V/60Hz power from a LISN, if any.
- 5) The EUT received power by adapter which received power by a LISN.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test.  
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 12.4 FINAL TEST PROCEDURE

- 10) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 11) 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 12) 3) The test data of the worst case condition(s) was reported on the Summary Data page.

## 12.5 TEST RESULT OF POWER LINE

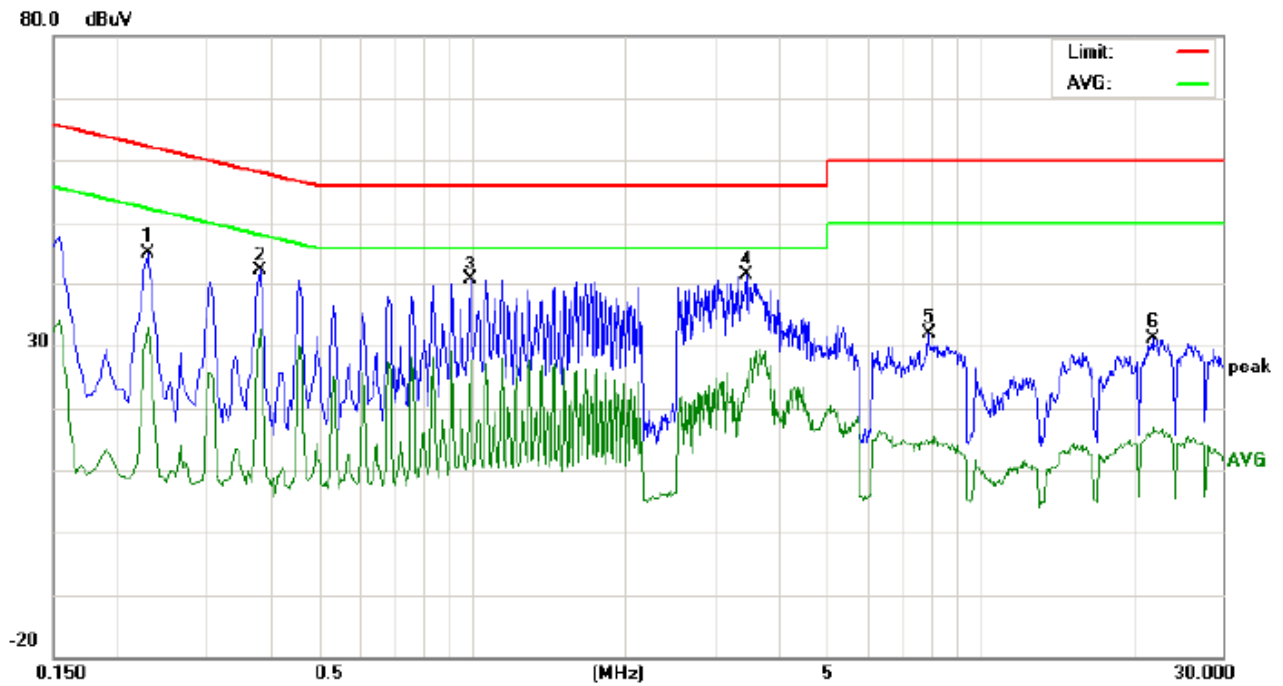
Line Conducted Emission Test Line 1-L



Site: Conduction Phase: **L1** Temperature: 26  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %  
EUT: Gator PLUS  
M/N: Z350  
Mode: Normal Operating(BT)  
Note:

| No. | Freq.<br>(MHz) | Reading Level<br>(dBuV) |    |       | Correct<br>Factor<br>dB | Measurement<br>(dBuV) |    |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|----------------|-------------------------|----|-------|-------------------------|-----------------------|----|-------|-----------------|-------|----------------|--------|-----|---------|
|     |                | Peak                    | QP | AVG   |                         | Peak                  | QP | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.2300         | 38.85                   |    | 27.79 | 10.25                   | 49.10                 |    | 38.04 | 62.45           | 52.45 | -13.35         | -14.41 | P   |         |
| 2   | 0.9940         | 33.89                   |    | 24.01 | 10.37                   | 44.26                 |    | 34.38 | 56.00           | 46.00 | -11.74         | -11.62 | P   |         |
| 3   | 1.6820         | 32.18                   |    | 22.32 | 10.32                   | 42.50                 |    | 32.64 | 56.00           | 46.00 | -13.50         | -13.36 | P   |         |
| 4   | 2.8300         | 32.39                   |    | 18.01 | 10.51                   | 42.90                 |    | 28.52 | 56.00           | 46.00 | -13.10         | -17.48 | P   |         |
| 5   | 3.2460         | 32.26                   |    | 11.89 | 10.53                   | 42.79                 |    | 22.42 | 56.00           | 46.00 | -13.21         | -23.58 | P   |         |
| 6   | 23.6100        | 22.82                   |    | 8.51  | 10.11                   | 32.93                 |    | 18.62 | 60.00           | 50.00 | -27.07         | -31.38 | P   |         |

Line Conducted Emission Test Line 1-N



Site: Conduction Phase: **N** Temperature: 26  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60 %  
EUT: Gator PLUS  
M/N: Z350  
Mode: Normal Operating(BT)  
Note:

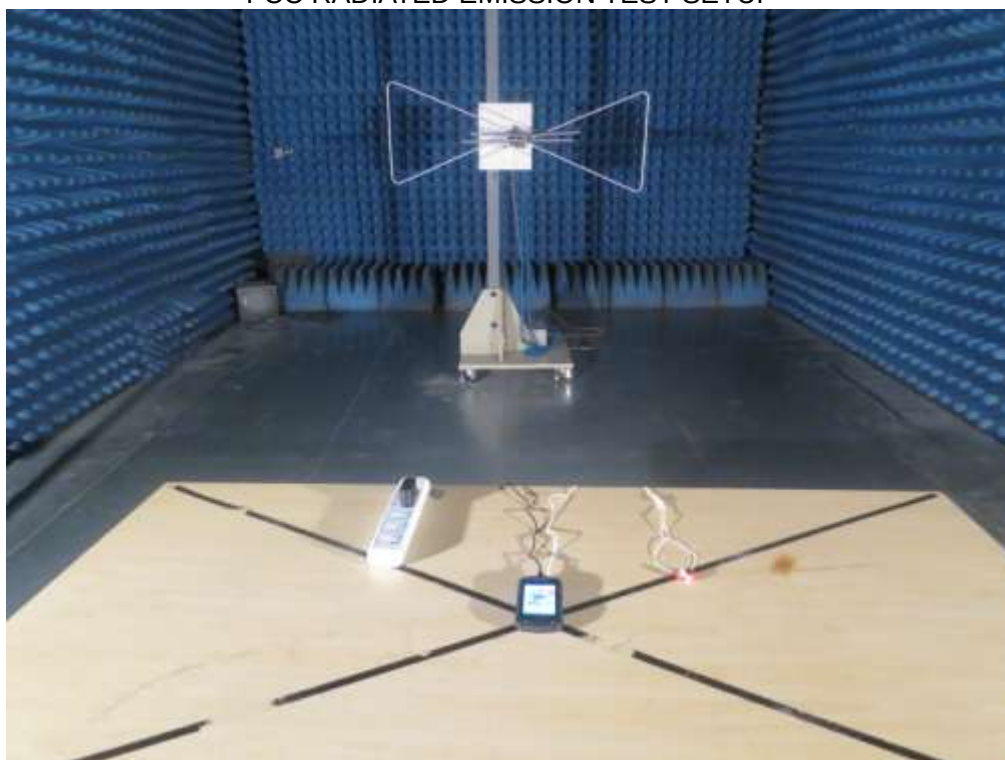
| No. | Freq.<br>(MHz) | Reading_Level<br>(dBuV) |    |       | Correct<br>Factor | Measurement<br>(dBuV) |    |       | Limit<br>(dBuV) |       | Margin<br>(dB) |        | P/F | Comment |
|-----|----------------|-------------------------|----|-------|-------------------|-----------------------|----|-------|-----------------|-------|----------------|--------|-----|---------|
|     |                | Peak                    | QP | AVG   |                   | Peak                  | QP | AVG   | QP              | AVG   | QP             | AVG    |     |         |
| 1   | 0.2300         | 34.81                   |    | 22.71 | 10.25             | 45.06                 |    | 32.96 | 62.45           | 52.45 | -17.39         | -19.49 | P   |         |
| 2   | 0.3820         | 31.89                   |    | 22.24 | 10.32             | 42.21                 |    | 32.56 | 58.23           | 48.23 | -16.02         | -15.67 | P   |         |
| 3   | 0.9940         | 30.26                   |    | 17.34 | 10.37             | 40.63                 |    | 27.71 | 56.00           | 46.00 | -15.37         | -18.29 | P   |         |
| 4   | 3.4700         | 30.82                   |    | 13.46 | 10.51             | 41.33                 |    | 23.97 | 56.00           | 46.00 | -14.67         | -22.03 | P   |         |
| 5   | 7.9060         | 21.47                   |    | 4.28  | 10.35             | 31.82                 |    | 14.63 | 60.00           | 50.00 | -28.18         | -35.37 | P   |         |
| 6   | 21.8620        | 21.01                   |    | 5.98  | 10.12             | 31.13                 |    | 16.10 | 60.00           | 50.00 | -28.87         | -33.90 | P   |         |

## APPENDIX A: PHOTOGRAPHS OF TEST SETUP

### FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



## APPENDIX B: PHOTOGRAPHS OF EUT

### TOTAL VIEW OF EUT



### TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



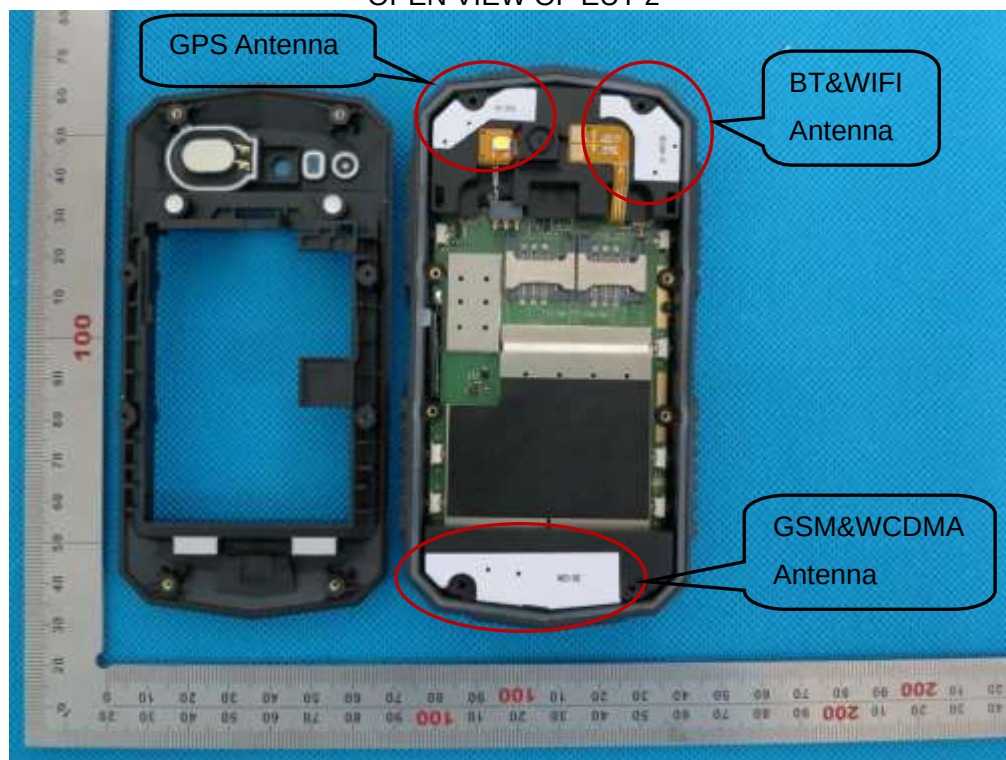
RIGHT VIEW OF EUT



OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2



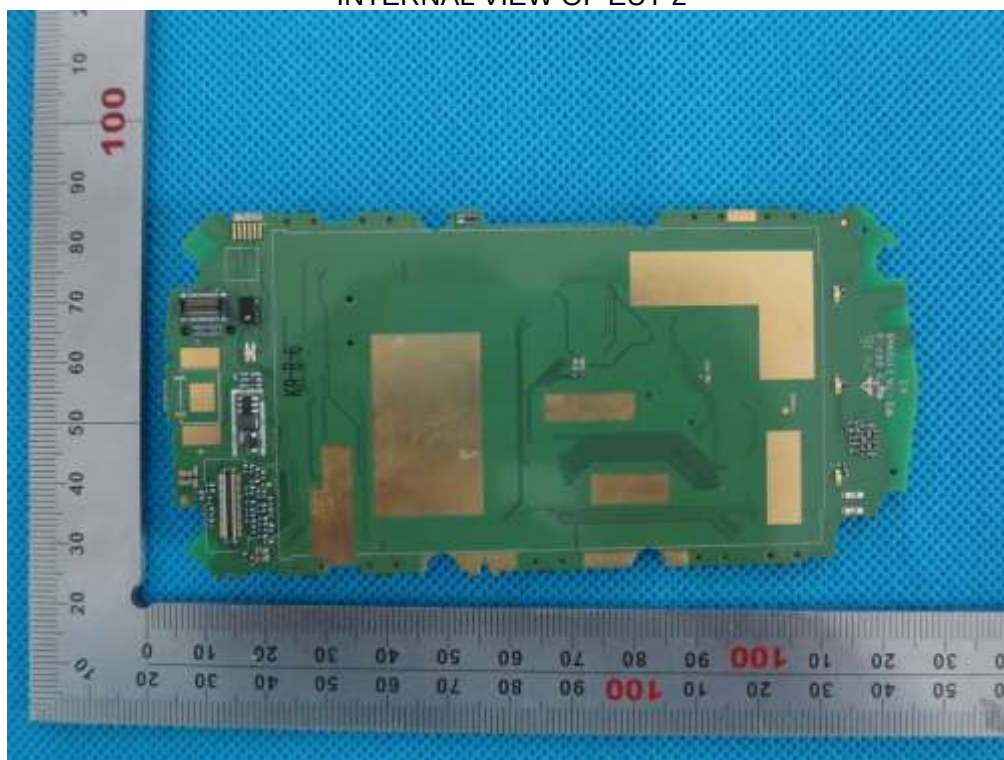
OPEN VIEW OF EUT-3



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



-----END OF REPORT-----