

APPLICATION CERTIFICATION FCC Part 15C  
On Behalf of

Zero Friction LLC.

Distance Pro

Model No.: GS00001, GL20001, GL20011, GL21001,  
GL21011, GL22001, GL22011

FCC ID: 2AJY2-GS00001

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Report No. : ATE20162128  
Date of Test : Oct 08, 2016--Oct 16, 2016  
Date of Report : Oct 17, 2016

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## Test Report Certification

Applicant : Zero Friction LLC.  
Manufacturer : Latitude Ltd.  
EUT Description : Distance Pro  
(A) MODEL NO.: GS00001, GL20001, GL20011, GL21001,  
GL21011, GL22001, GL22011  
(B) TRADE NAME.: Zero Friction  
(C) Test Voltage: DC 3V

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247:2015**  
**ANSI C63.10: 2013**

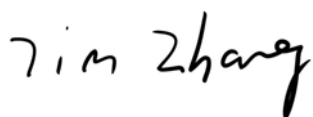
The EUT was tested according to DTS test procedure of Apr 08, 2016 KDB558074 D01 DTS Meas Guidance v03r05 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : Oct 08, 2016--Oct 16, 2016  
Date of Report: Oct 17, 2016

Prepared by :

  
( Tim.zhang, Engineer)

Approved & Authorized Signer :

  
(Sean Liu, Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                         |   |   |
|-------------------------|---|---|
| EUT                     | : | Distance Pro  |
| Model Number            | : | GS00001, GL20001, GL20011, GL21001,<br>GL21011, GL22001, GL22011                              |
| Bluetooth version       | : | BT V4.0 LE mode   |
| Frequency Range         | : | 2402MHz-2480MHz   |
| Number of Channels      | : | 40  |
| Antenna Gain(Max)       | : | 0dBi  |
| Antenna type            | : | FPC Antenna   |
| Trade Name              | : | Zero Friction   |
| Input Voltage           | : | DC 3.0V   |
| Modulation mode         | : | GFSK  |
| Applicant               | : | Zero Friction LLC.  |
| Address                 | : | 1 Trans Am Plaza Drive, Suite 540, Oakbrook Terrace,<br>IL, United States 60181.              |
| Manufacturer            | : | Latitude Ltd.   |
| Address                 | : | 7/F, Southeast Industrial Building, 611-619,<br>Castle Peak Road, Tsuen Wan, N.T., Hong Kong. |
| Date of sample received | : | Oct 08, 2016  |
| Date of Test            | : | Oct 08, 2016--Oct 16, 2016  |

## 1.2.Carrier Frequency of Channels

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

## 1.3.Special Accessory and Auxiliary Equipment

N/A

#### 1.4. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC  
The Registration Number is 752051

Listed by Industry Canada  
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee  
for Laboratories  
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.  
Science & Industry Park, Nanshan, Shenzhen, Guangdong  
P.R. China

#### 1.5. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2  
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2  
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2  
(Above 1GHz)

## 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

| Kind of equipment  | Manufacturer              | Type                                    | S/N        | Calibrated dates | Calibrated until |
|--------------------|---------------------------|---|------------|------------------|------------------|
| EMI Test Receiver  | Rohde&Schwarz             | ESCS30                                  | 100307     | Jan. 10, 2016    | Jan. 09, 2017    |
| EMI Test Receiver  | Rohde&Schwarz             | ESPI3                                   | 101526/003 | Jan. 10, 2016    | Jan. 09, 2017    |
| Spectrum Analyzer  | Agilent                   | E7405A                                  | MY45115511 | Jan. 10, 2016    | Jan. 09, 2017    |
| Pre-Amplifier      | Rohde&Schwarz             | CBLU118354<br>0-01                      | 3791       | Jan. 10, 2016    | Jan. 09, 2017    |
| Loop Antenna       | Schwarzbeck               | FMZB1516                                | 1516131    | Jan. 14, 2016    | Jan. 13, 2017    |
| Bilog Antenna      | Schwarzbeck               | VULB9163                                | 9163-323   | Jan. 14, 2016    | Jan. 13, 2017    |
| Horn Antenna       | Schwarzbeck               | BBHA9120D                               | 9120D-655  | Jan. 14, 2016    | Jan. 13, 2017    |
| Horn Antenna       | Schwarzbeck               | BBHA9170                                | 9170-359   | Jan. 14, 2016    | Jan. 13, 2017    |
| LISN               | Rohde&Schwarz             | ESH3-Z5                                 | 100305     | Jan. 10, 2016    | Jan. 09, 2017    |
| LISN               | Schwarzbeck               | NSLK8126                                | 8126431    | Jan. 10, 2016    | Jan. 09, 2017    |
| Highpass Filter    | Wainwright<br>Instruments | WHKX3.6/18<br>G-10SS                    | N/A        | Jan. 10, 2016    | Jan. 09, 2017    |
| Band Reject Filter | Wainwright<br>Instruments | WRCG2400/2<br>485-2375/2510<br>-60/11SS | N/A        | Jan. 10, 2016    | Jan. 09, 2017    |



### 3. OPERATION OF EUT DURING TESTING

#### 3.1.Operating Mode

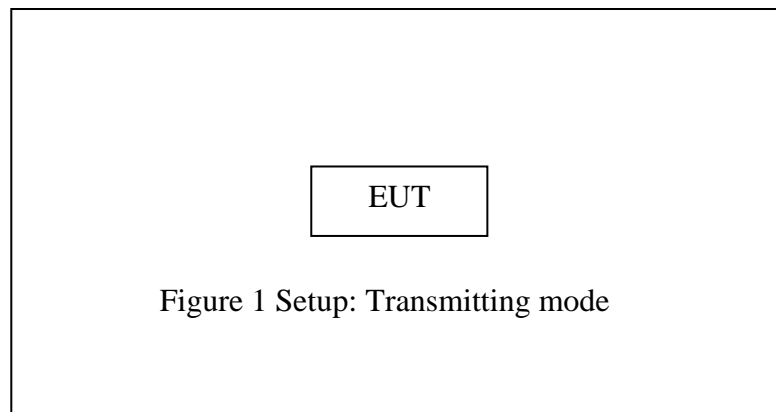
The mode is used: **BLE Transmitting mode**

Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

#### 3.2.Configuration and peripherals



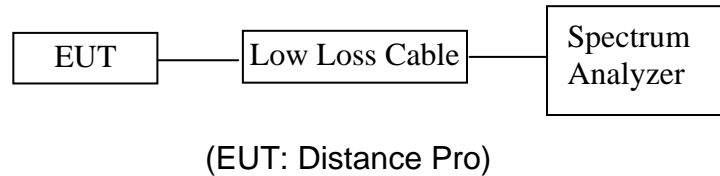
#### 4. TEST PROCEDURES AND RESULTS

| FCC Rules                           | Description of Test                   | Result    |
|-------------------------------------|---------------------------------------|-----------|
| Section 15.247(a)(2)                | 6dB Bandwidth Test                    | Compliant |
| Section 15.247(e)                   | Power Spectral Density Test           | Compliant |
| Section 15.247(b)(3)                | Maximum Peak Output Power Test        | Compliant |
| Section 15.247(d)                   | Band Edge Compliance Test             | Compliant |
| Section 15.247(d)<br>Section 15.209 | Radiated Spurious Emission Test       | Compliant |
| Section 15.247(d)                   | Conducted Spurious Emission Test      | Compliant |
| Section 15.207                      | AC Power Line Conducted Emission Test | N/A       |
| Section 15.203                      | Antenna Requirement                   | Compliant |

Note: The power supply mode of the EUT is DC 3V, According to the FCC standard requirements, conducted emission is not applicable

## 5. 6DB BANDWIDTH MEASUREMENT

### 5.1. Block Diagram of Test Setup



### 5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.3. EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

### 5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

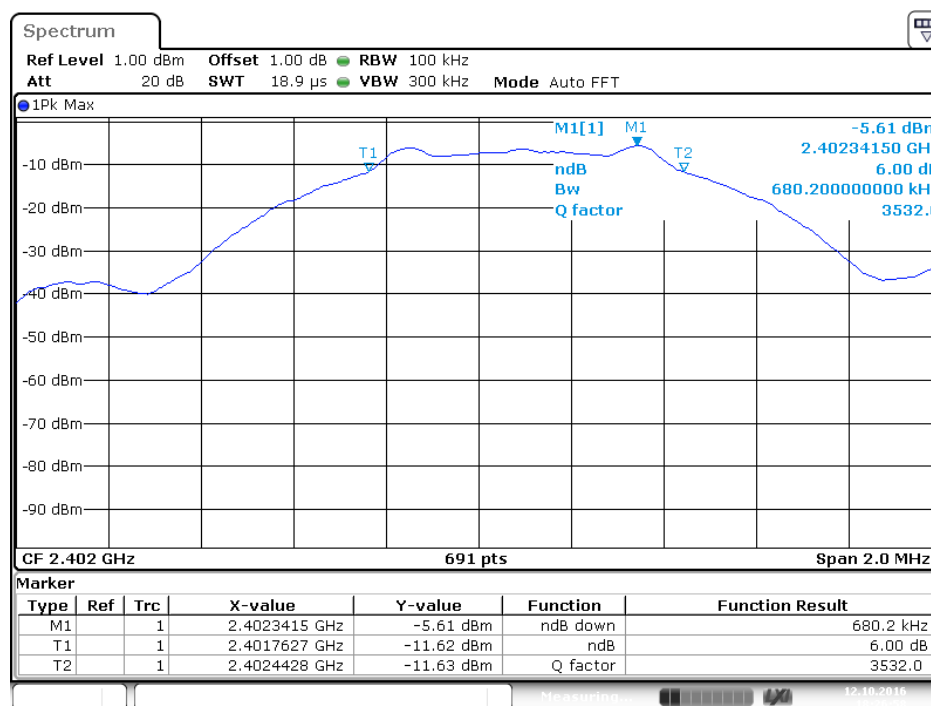
5.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

## 5.6.Test Result

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit(MHz) | PASS/FAIL |
|---------|-----------------|----------------------|--------------------|-----------|
| 0       | 2402            | 0.680                | 0.5                | PASS      |
| 19      | 2440            | 0.692                | 0.5                | PASS      |
| 39      | 2480            | 0.645                | 0.5                | PASS      |

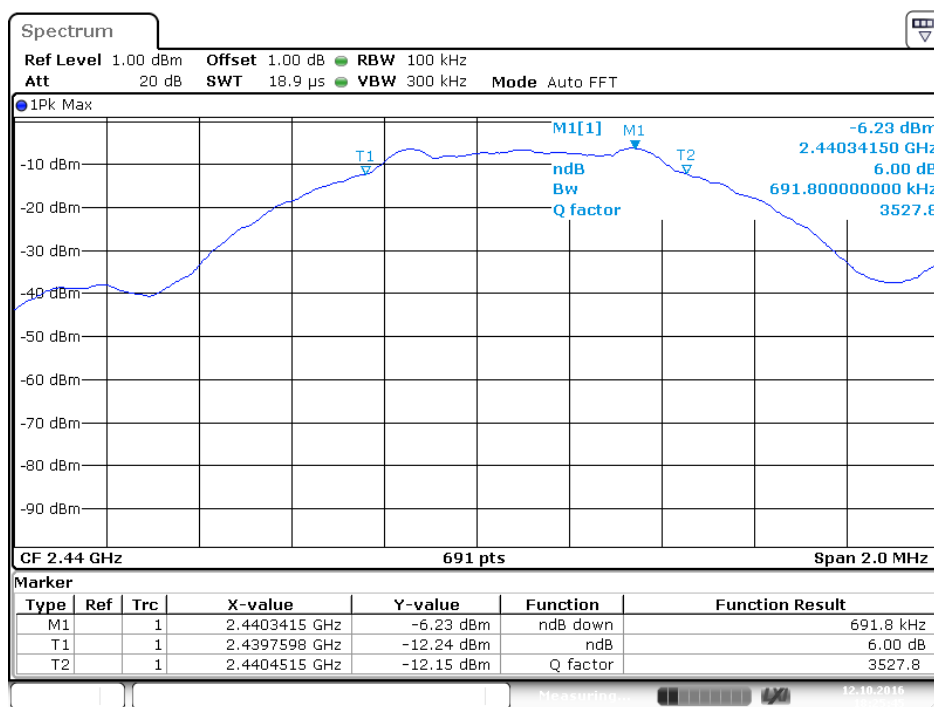
The spectrum analyzer plots are attached as below.

*channel 0*



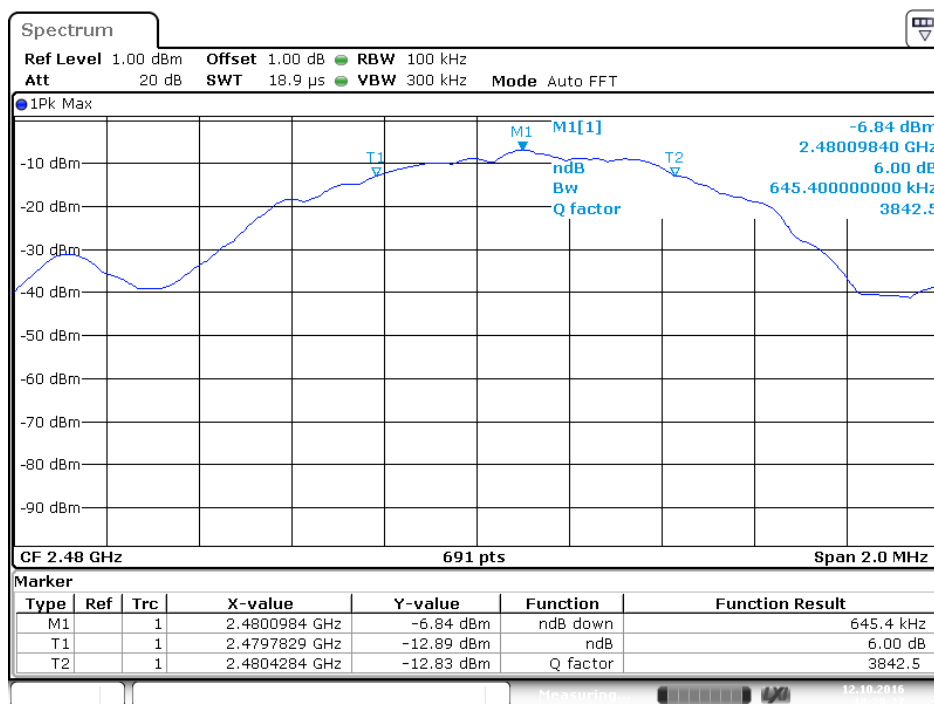
Date: 12.OCT.2016 18:26:59

## channel 19



Date: 12.OCT.2016 18:25:45

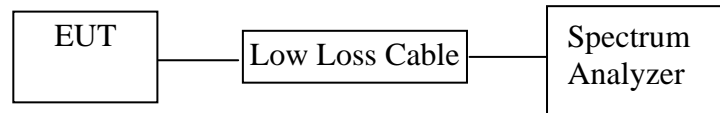
## channel 39



Date: 12.OCT.2016 18:28:28

## 6. MAXIMUM PEAK OUTPUT POWER

### 6.1. Block Diagram of Test Setup



(EUT: Distance Pro)

### 6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

### 6.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

### 6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2. Test method is options 1 from KDB558074 D01 DTS Meas Guidance v03r05

6.5.3. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.

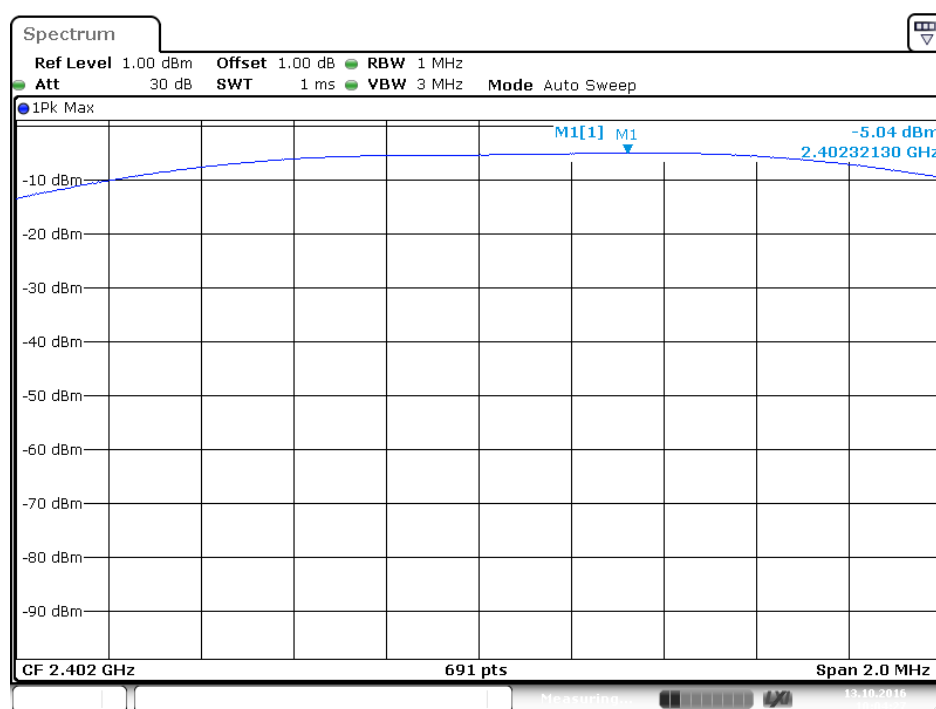
6.5.4. Measurement the maximum peak output power.

## 6.6.Test Result

| Channel | Frequency (MHz) | Peak Power Output (dBm) | Peak Power Limit (dBm) | Pass / Fail |
|---------|-----------------|-------------------------|------------------------|-------------|
| 0       | 2402            | -5.04                   | 30                     | PASS        |
| 19      | 2440            | -5.11                   | 30                     | PASS        |
| 39      | 2480            | -5.38                   | 30                     | PASS        |

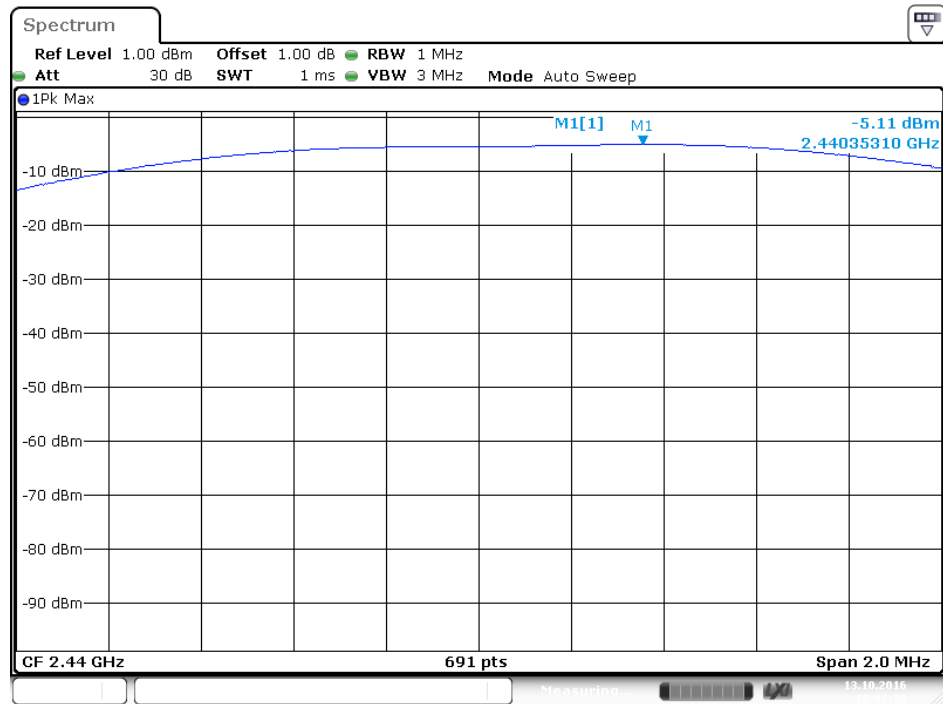
The spectrum analyzer plots are attached as below.

*channel 0*



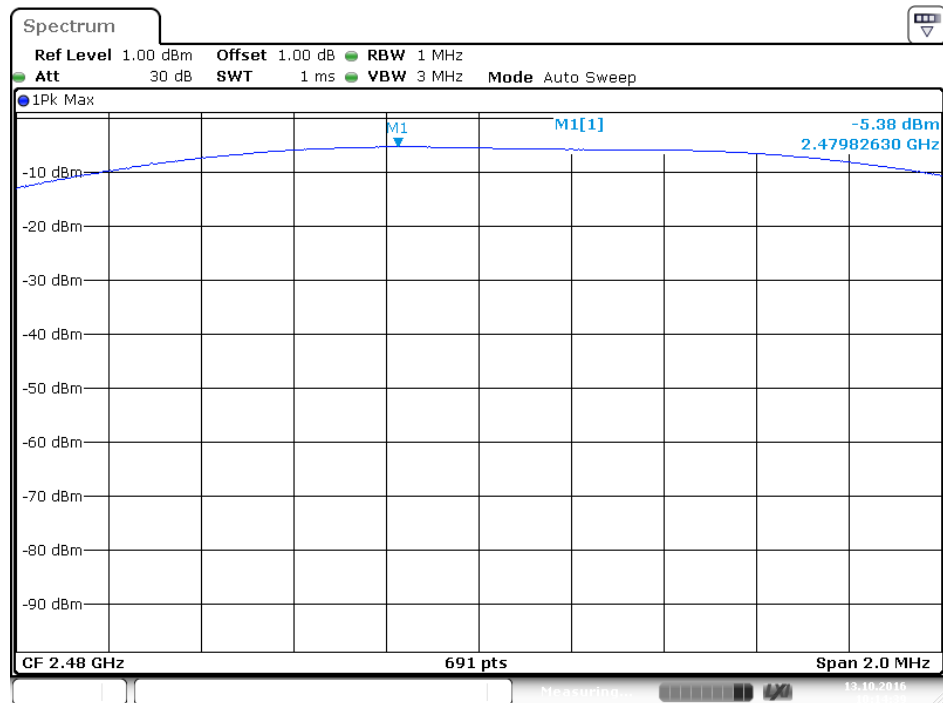
Date: 13.OCT.2016 10:04:26

## channel 19



Date: 13.OCT.2016 10:07:38

## channel 39

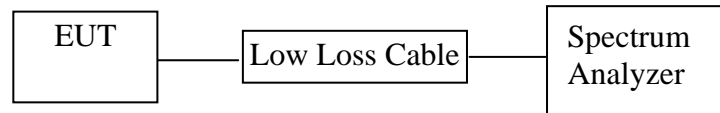


Date: 13.OCT.2016 10:14:38



## 7. POWER SPECTRAL DENSITY MEASUREMENT

### 7.1. Block Diagram of Test Setup



(EUT: Distance Pro)

### 7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 7.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

## 7.5.Test Procedure

7.5.1.The EUT was tested according to DTS test procedure of Apr 08, 2016 KDB558074 D01 DTS Meas Guidance v03r05 for compliance to FCC 47CFR 15.247 requirements.

7.5.2.The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.3.Measurement Procedure PKPSD:

7.5.4.This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

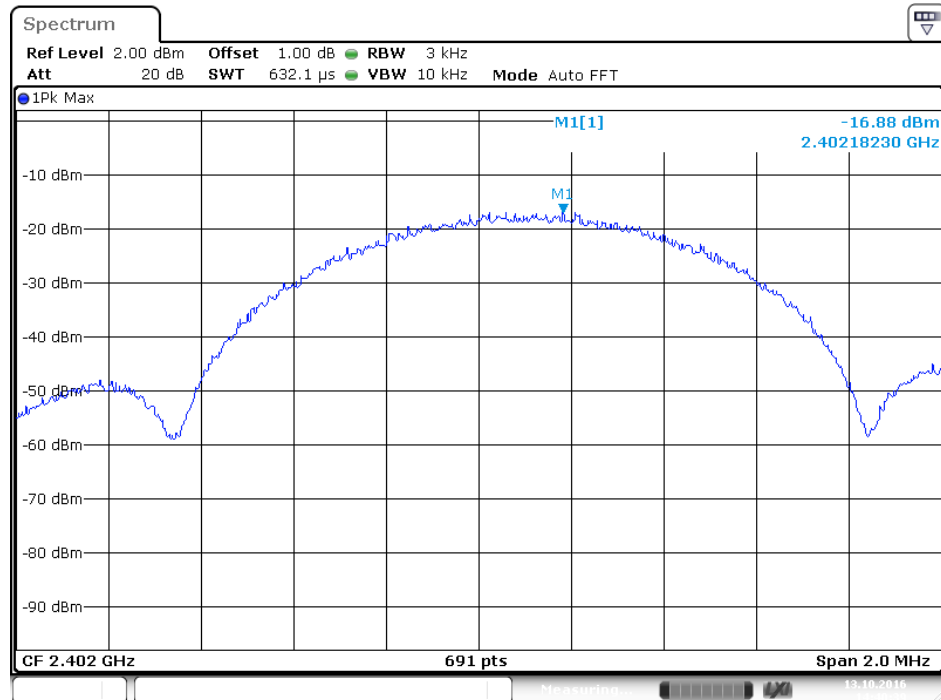
7.5.5.Measurement the maximum power spectral density.

## 7.6.Test Result

| CHANNEL NUMBER | FREQUENCY (MHz ) | PSD (dBm/3KHz) | LIMIT (dBm/3KHz) | PASS/FAIL |
|----------------|------------------|----------------|------------------|-----------|
| 0              | 2402             | -16.88         | 8                | PASS      |
| 19             | 2440             | -16.73         | 8                | PASS      |
| 39             | 2480             | -17.63         | 8                | PASS      |

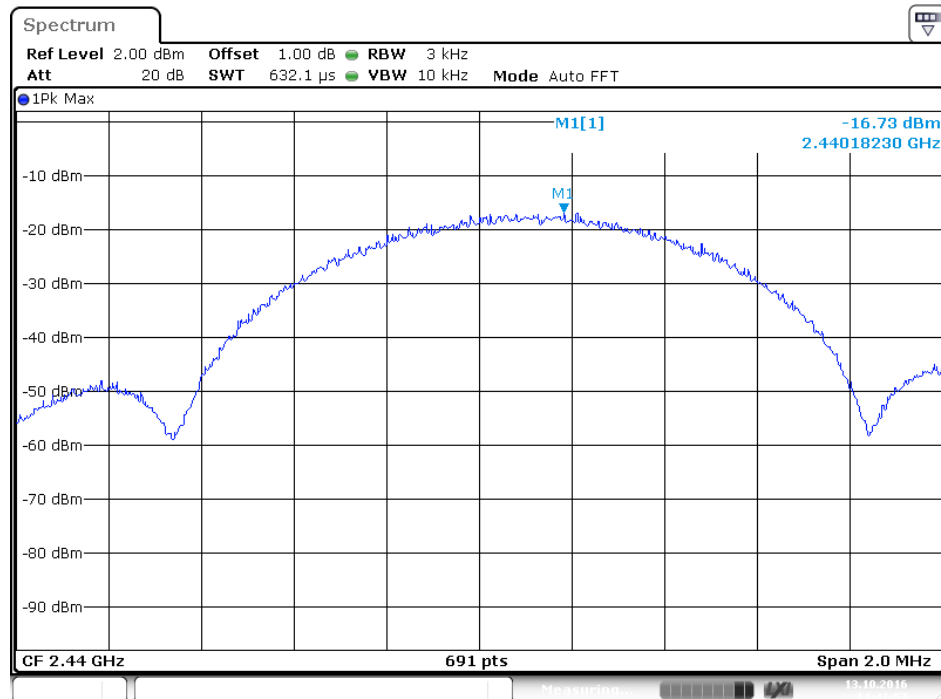
The spectrum analyzer plots are attached as below.

## channel 0



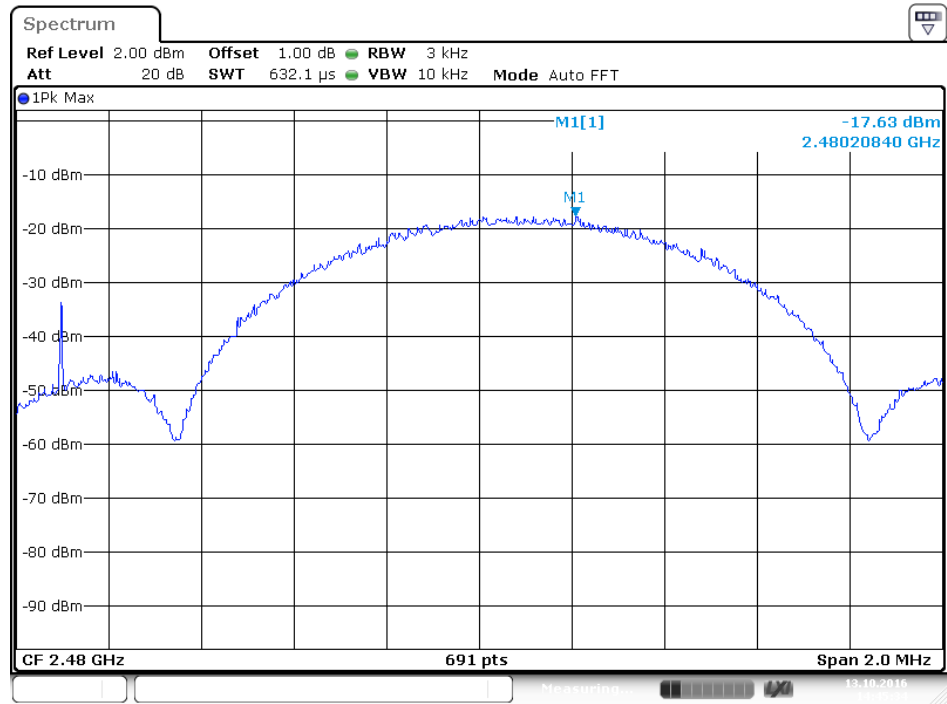
Date: 13.OCT.2016 14:40:38

## channel 19



Date: 13.OCT.2016 14:41:56

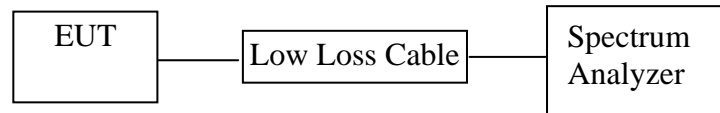
## channel 39



Date: 13.OCT.2016 14:45:34

## 8. BAND EDGE COMPLIANCE TEST

### 8.1. Block Diagram of Test Setup



(EUT: Distance Pro)

### 8.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

### 8.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

## 8.5. Test Procedure

### Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.

### 8.5.3. Radiate Band Edge:

8.5.4. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

8.5.5. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.6. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.7. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

8.5.8. RBW=1MHz, VBW=1MHz

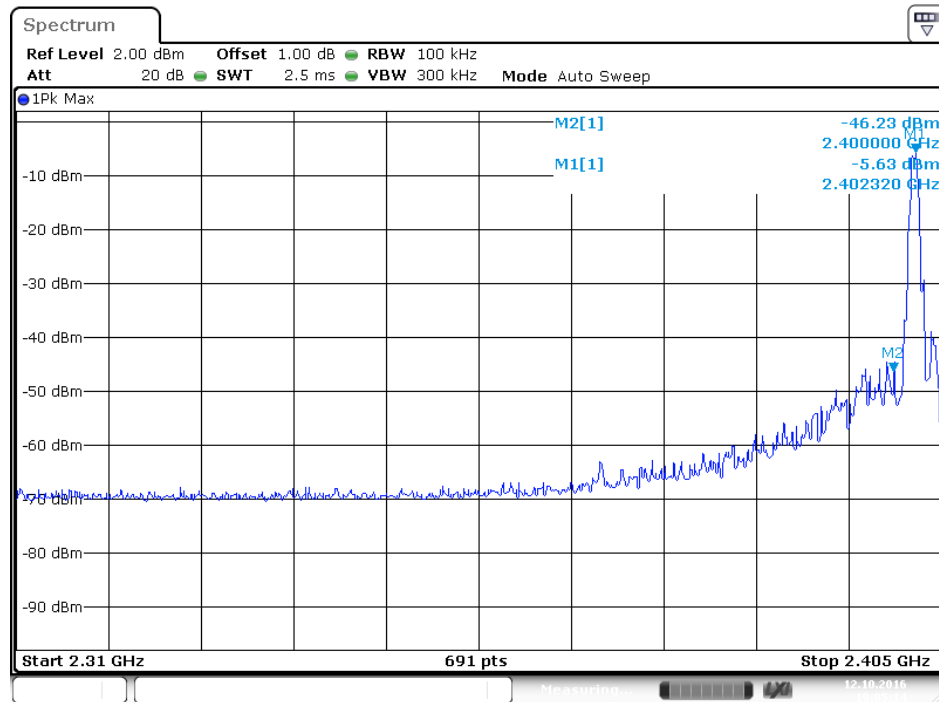
8.5.9. The band edges was measured and recorded.

## 8.6. Test Result

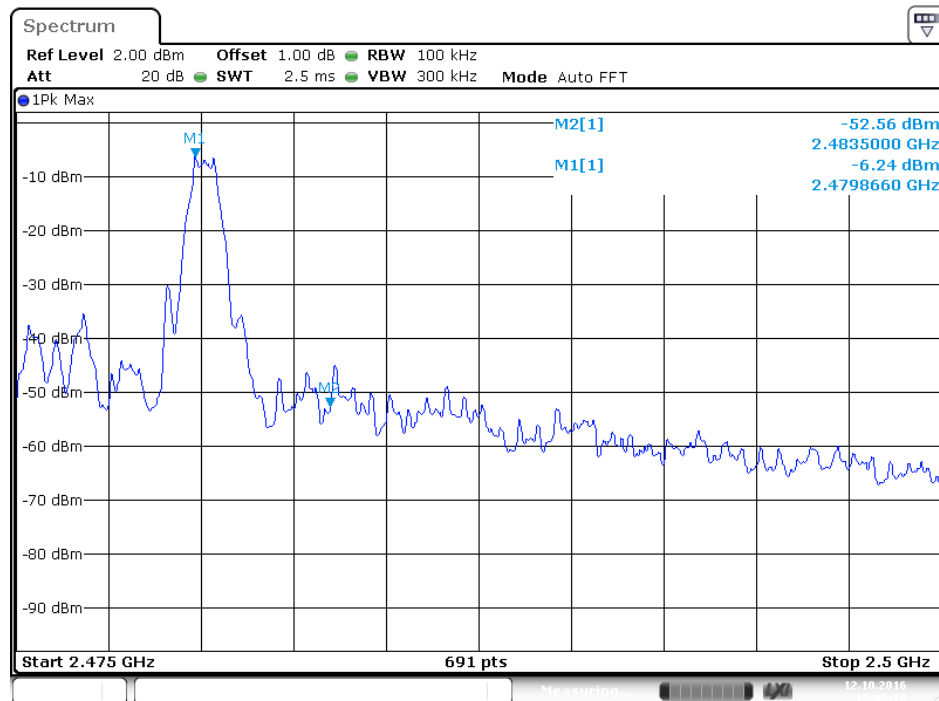
### Pass

| Channel | Frequency | Delta peak to band emission | Limit(dBc) |
|---------|-----------|-----------------------------|------------|
| 0       | 2.4GHz    | 40.60                       | 20         |
| 39      | 2.4835GHz | 46.32                       | 20         |

## channel 0



## channel 39



### Radiated Band Edge Result

|               |                   |                |       |
|---------------|-------------------|----------------|-------|
| Date of Test: | Oct 14, 2016      | Temperature:   | 25°C  |
| EUT:          | Distance Pro      | Humidity:      | 50%   |
| Model No.:    | GS00001           | Power Supply:  | DC 3V |
| Test Mode:    | TX (2402MHz) GFSK | Test Engineer: | Ding  |

| Frequency<br>(MHz) | Reading(dBμV/m) |       | Factor(dB)<br>Corr. | Result(dBμV/m) |       | Limit(dBμV/m) |       | Margin(dB) |        | Polarization |
|--------------------|-----------------|-------|---------------------|----------------|-------|---------------|-------|------------|--------|--------------|
|                    | AV              | PEAK  |                     | AV             | PEAK  | AV            | PEAK  | AV         | PEAK   |              |
| 2390.000           | 33.40           | 40.80 | -8.00               | 25.40          | 32.80 | 54.00         | 74.00 | -28.60     | -41.20 | Vertical     |
| 2400.000           | 47.40           | 55.78 | -7.97               | 39.43          | 47.81 | 54.00         | 74.00 | -14.57     | -26.19 | Vertical     |
| 2390.000           | 32.40           | 41.20 | -8.00               | 24.40          | 33.20 | 54.00         | 74.00 | -29.60     | -40.80 | Horizontal   |
| 2400.000           | 49.78           | 57.34 | -7.97               | 41.81          | 49.37 | 54.00         | 74.00 | -12.19     | -24.63 | Horizontal   |

|               |                   |                |       |
|---------------|-------------------|----------------|-------|
| Date of Test: | Oct 14, 2016      | Temperature:   | 25°C  |
| EUT:          | Distance Pro      | Humidity:      | 50%   |
| Model No.:    | GS00001           | Power Supply:  | DC 3V |
| Test Mode:    | TX (2480MHz) GFSK | Test Engineer: | Ding  |

| Frequency<br>(MHz) | Reading(dBμV/m) |       | Factor(dB)<br>Corr. | Result(dBμV/m) |       | Limit(dBμV/m) |       | Margin(dB) |        | Polarization |
|--------------------|-----------------|-------|---------------------|----------------|-------|---------------|-------|------------|--------|--------------|
|                    | AV              | PEAK  |                     | AV             | PEAK  | AV            | PEAK  | AV         | PEAK   |              |
| 2483.500           | 40.14           | 48.46 | -7.76               | 32.38          | 40.70 | 54.00         | 74.00 | -21.62     | -33.30 | Vertical     |
| 2500.000           | 34.67           | 42.41 | -7.71               | 26.92          | 34.70 | 54.00         | 74.00 | -27.04     | -39.30 | Vertical     |
| 2483.500           | 41.79           | 49.05 | -7.76               | 34.03          | 41.29 | 54.00         | 74.00 | -19.97     | -32.71 | Horizontal   |
| 2500.000           | 33.22           | 41.12 | -7.71               | 25.51          | 33.41 | 54.00         | 74.00 | -28.49     | -40.59 | Horizontal   |

#### Note:

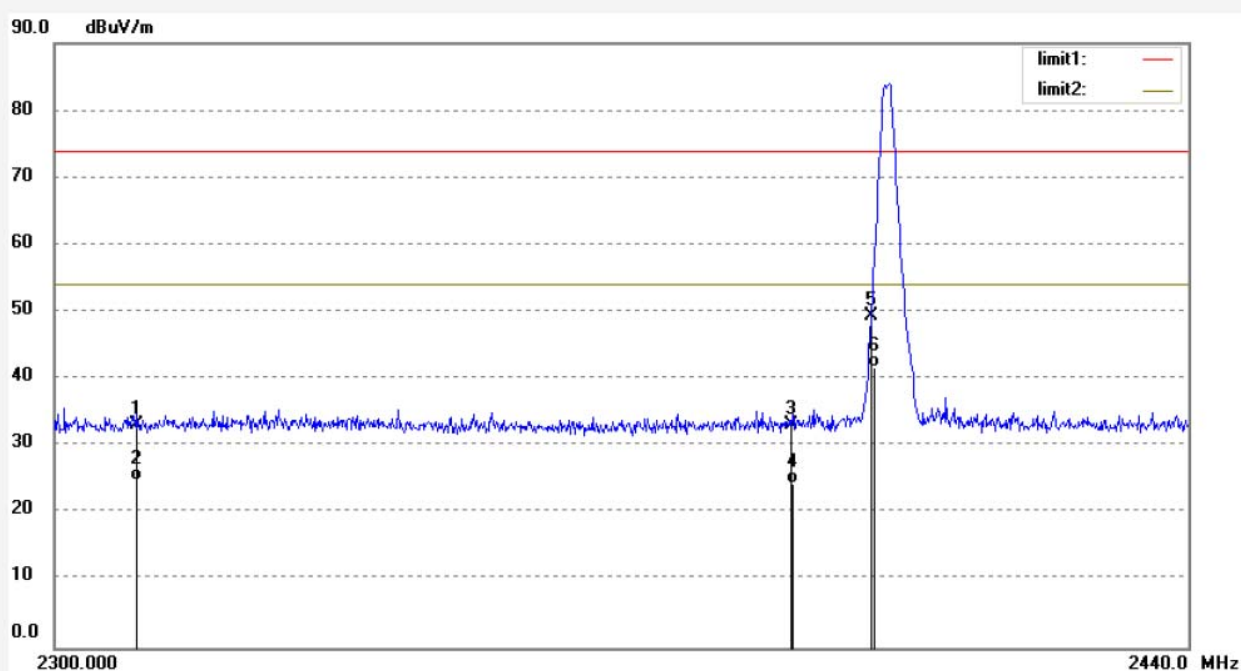
1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:  
Result = Reading + Corrected Factor
3. Display the measurement of peak values.



Job No.: DING2016 #252  
Standard: FCC PK  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Distance Pro  
Mode: TX 2402MHz  
Model: GS00001  
Manufacturer: LATITUDE

Polarization: Horizontal  
Power Source: DC 3V  
Date: 16/10/12/  
Time: 11/40/38  
Engineer Signature: Ding  
Distance: 3m

Note: Report No.:ATE20162128

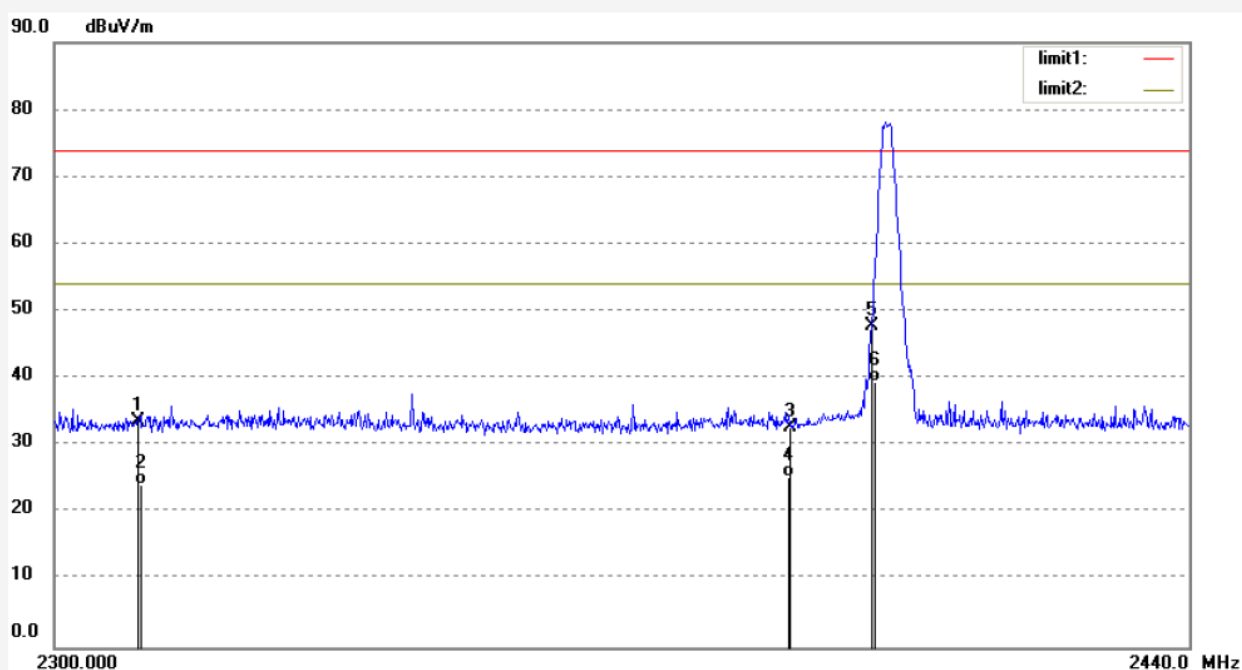


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2310.000    | 41.39            | -8.21       | 33.18           | 74.00          | -40.82      | peak     |             |               |        |
| 2   | 2310.000    | 33.00            | -8.21       | 24.79           | 54.00          | -29.21      | AVG      |             |               |        |
| 3   | 2390.000    | 41.20            | -8.00       | 33.20           | 74.00          | -40.80      | peak     |             |               |        |
| 4   | 2390.000    | 32.40            | -8.00       | 24.40           | 54.00          | -29.60      | AVG      |             |               |        |
| 5   | 2400.000    | 57.34            | -7.97       | 49.37           | 74.00          | -24.63      | peak     |             |               |        |
| 6   | 2400.000    | 49.78            | -7.97       | 41.81           | 54.00          | -12.19      | AVG      |             |               |        |

Job No.: DING2016 #253  
Standard: FCC PK  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Bluetooth Smart Module  
Mode: TX 2402MHz  
Model: GS00001  
Manufacturer: LATITUDE

Polarization: Vertical  
Power Source: DC 3V  
Date: 16/10/12/  
Time: 11/44/38  
Engineer Signature: Ding  
Distance: 3m

Note: Report No.:ATE20162128

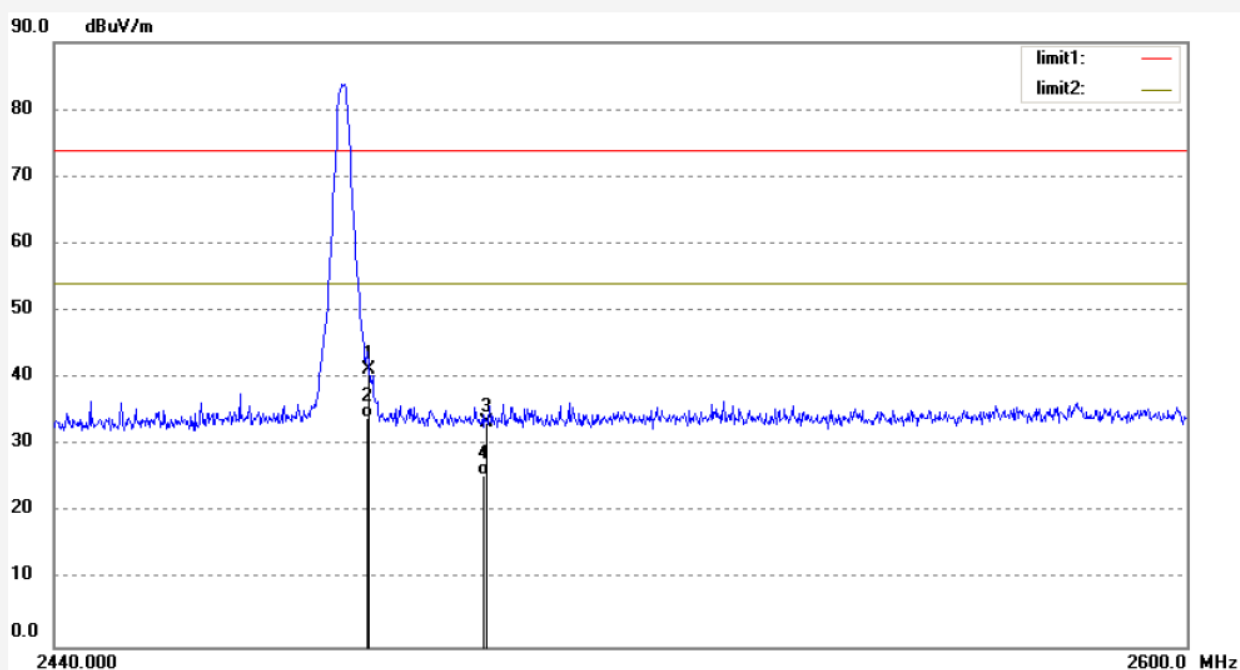


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2310.000    | 41.89            | -8.21       | 33.68           | 74.00          | -40.32      | peak     |             |               |        |
| 2   | 2310.000    | 32.47            | -8.21       | 24.26           | 54.00          | -29.74      | AVG      |             |               |        |
| 3   | 2390.000    | 40.80            | -8.00       | 32.80           | 74.00          | -41.20      | peak     |             |               |        |
| 4   | 2390.000    | 33.40            | -8.00       | 25.40           | 54.00          | -28.60      | AVG      |             |               |        |
| 5   | 2400.000    | 55.78            | -7.97       | 47.81           | 74.00          | -26.19      | peak     |             |               |        |
| 6   | 2400.000    | 47.40            | -7.97       | 39.43           | 54.00          | -14.57      | AVG      |             |               |        |

Job No.: DING2016 #254  
Standard: FCC PK  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Bluetooth Smart Module  
Mode: TX 2480MHz  
Model: GS00001  
Manufacturer: LATITUDE

Polarization: Horizontal  
Power Source: DC 3V  
Date: 16/10/12/  
Time: 11/48/54  
Engineer Signature: Ding  
Distance: 3m

Note: Report No.:ATE20162128

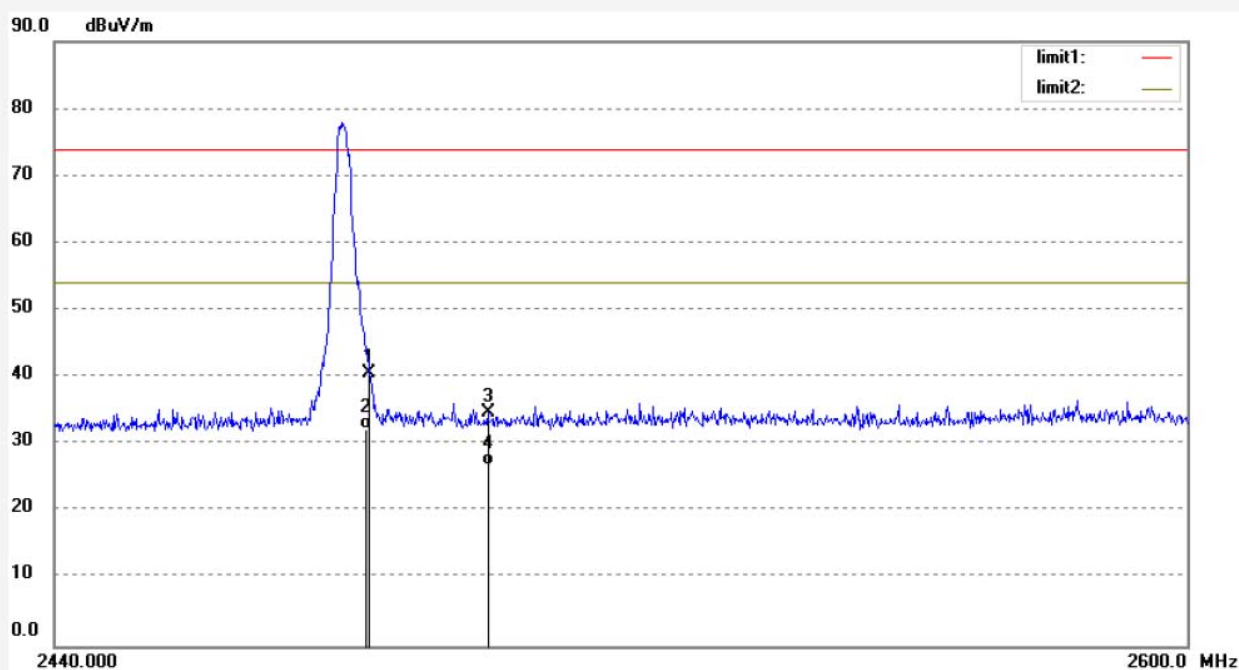


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 49.05            | -7.76       | 41.29           | 74.00          | -32.71      | peak     |             |               |        |
| 2   | 2483.500    | 41.79            | -7.76       | 34.03           | 54.00          | -19.97      | AVG      |             |               |        |
| 3   | 2500.000    | 41.12            | -7.71       | 33.41           | 74.00          | -40.59      | peak     |             |               |        |
| 4   | 2500.000    | 33.22            | -7.71       | 25.51           | 54.00          | -28.49      | AVG      |             |               |        |

Job No.: DING2016 #255  
Standard: FCC PK  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Bluetooth Smart Module  
Mode: TX 2480MHz  
Model: GS00001  
Manufacturer: LATITUDE

Polarization: Vertical  
Power Source: DC 3V  
Date: 16/10/12/  
Time: 11/53/51  
Engineer Signature: Ding  
Distance: 3m

Note: Report No.:ATE20162128

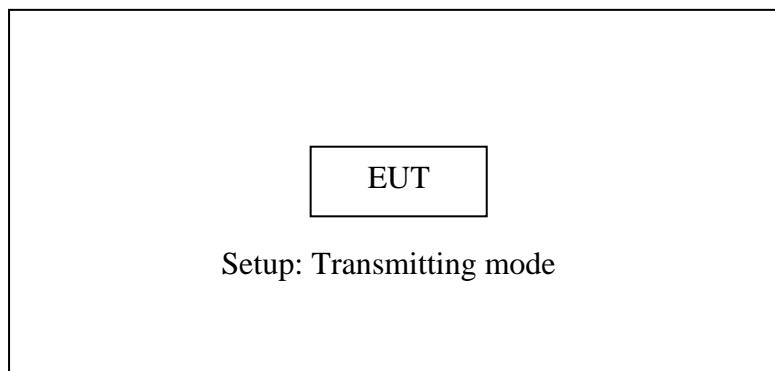


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 48.46            | -7.76       | 40.70           | 74.00          | -33.30      | peak     |             |               |        |
| 2   | 2483.500    | 40.14            | -7.76       | 32.38           | 54.00          | -21.62      | AVG      |             |               |        |
| 3   | 2500.000    | 42.41            | -7.71       | 34.70           | 74.00          | -39.30      | peak     |             |               |        |
| 4   | 2500.000    | 34.67            | -7.71       | 26.96           | 54.00          | -27.04      | AVG      |             |               |        |

## 9. RADIATED SPURIOUS EMISSION TEST

### 9.1. Block Diagram of Test Setup

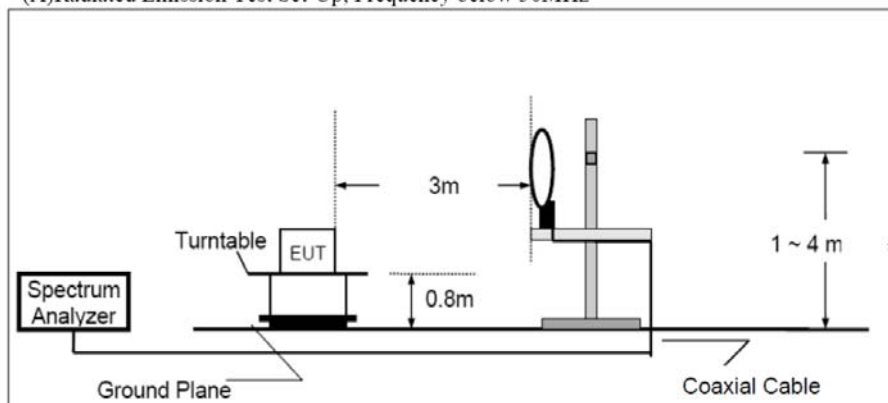
#### 9.1.1. Block diagram of connection between the EUT and peripherals



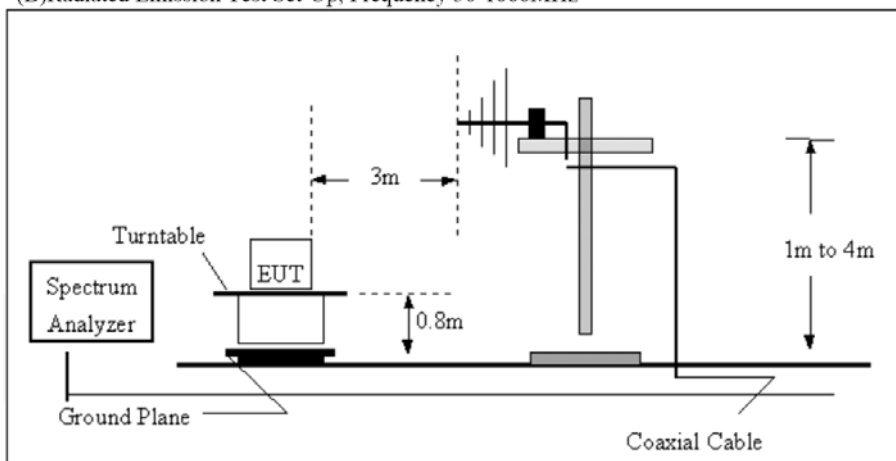
(EUT: Distance Pro)

#### 9.1.2. Semi-Anechoic Chamber Test Setup Diagram

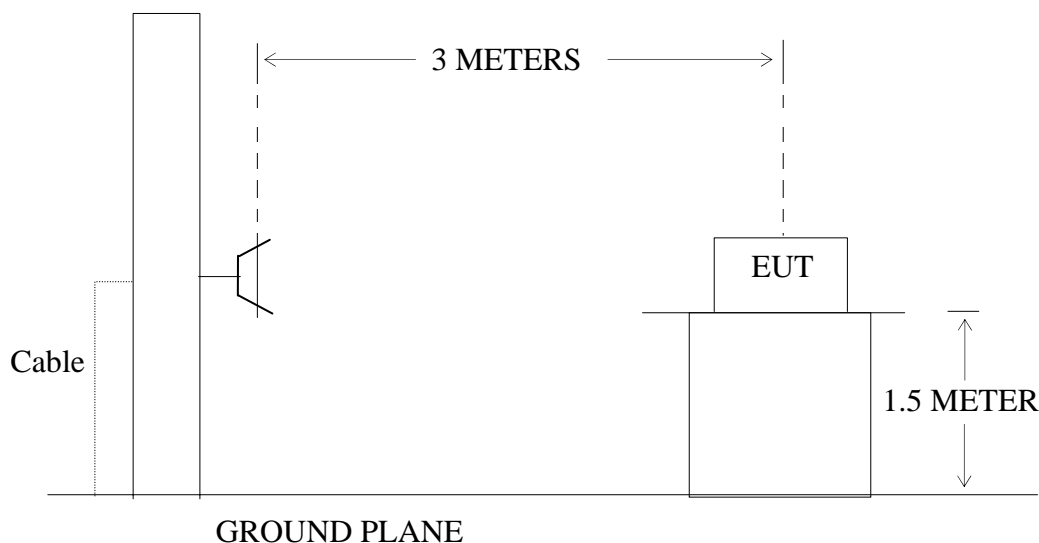
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency 30-1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



## 9.2.The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 9.3.Restricted bands of operation

### 9.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                      | MHz                 | MHz           | GHz              |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15         |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46        |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75        |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5        |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2          |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5          |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7        |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4       |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5       |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2       |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4        |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12      |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0        |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8        |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5       |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | ( <sup>2</sup> ) |
| 13.36-13.41              |                     |               |                  |

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

<sup>2</sup>Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

## 9.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 9.5.Operating Condition of EUT

9.5.1.Setup the EUT and simulator as shown as Section 9.1.



9.5.2. Turn on the power of all equipment.

9.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

## 9.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground (Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground (Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

## 9.7. The Field Strength of Radiation Emission Measurement Results

**PASS.**

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. \*: Denotes restricted band of operation.**

**3. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.**



Job No.: DING #2474

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2402MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Horizontal

Power Source: DC 3V

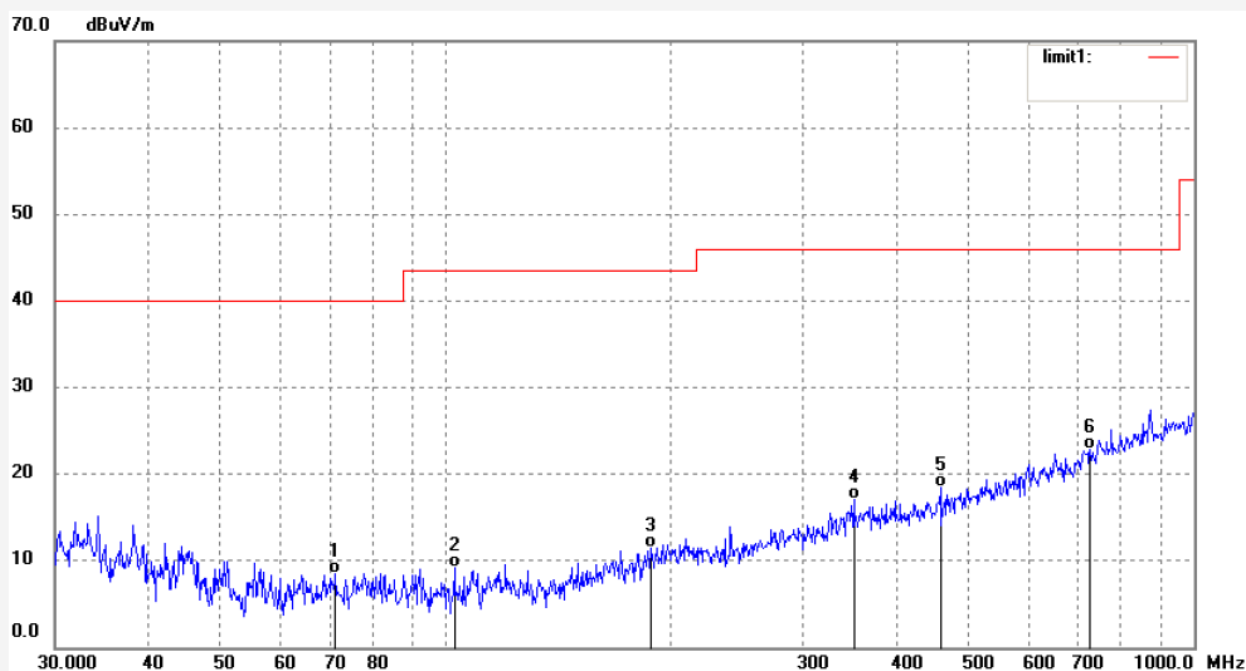
Date: 16/10/13/

Time: 14/20/04

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20162128



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 71.2032     | 31.35            | -22.92      | 8.43            | 40.00          | -31.57      | QP       |             |               |        |
| 2   | 102.6116    | 32.90            | -23.68      | 9.22            | 43.50          | -34.28      | QP       |             |               |        |
| 3   | 187.7831    | 32.05            | -20.58      | 11.47           | 43.50          | -32.03      | QP       |             |               |        |
| 4   | 350.9721    | 32.41            | -15.36      | 17.05           | 46.00          | -28.95      | QP       |             |               |        |
| 5   | 458.3987    | 31.93            | -13.43      | 18.50           | 46.00          | -27.50      | QP       |             |               |        |
| 6   | 726.3405    | 30.44            | -7.65       | 22.79           | 46.00          | -23.21      | QP       |             |               |        |

Job No.: DING #2475

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2402MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Vertical

Power Source: DC 3V

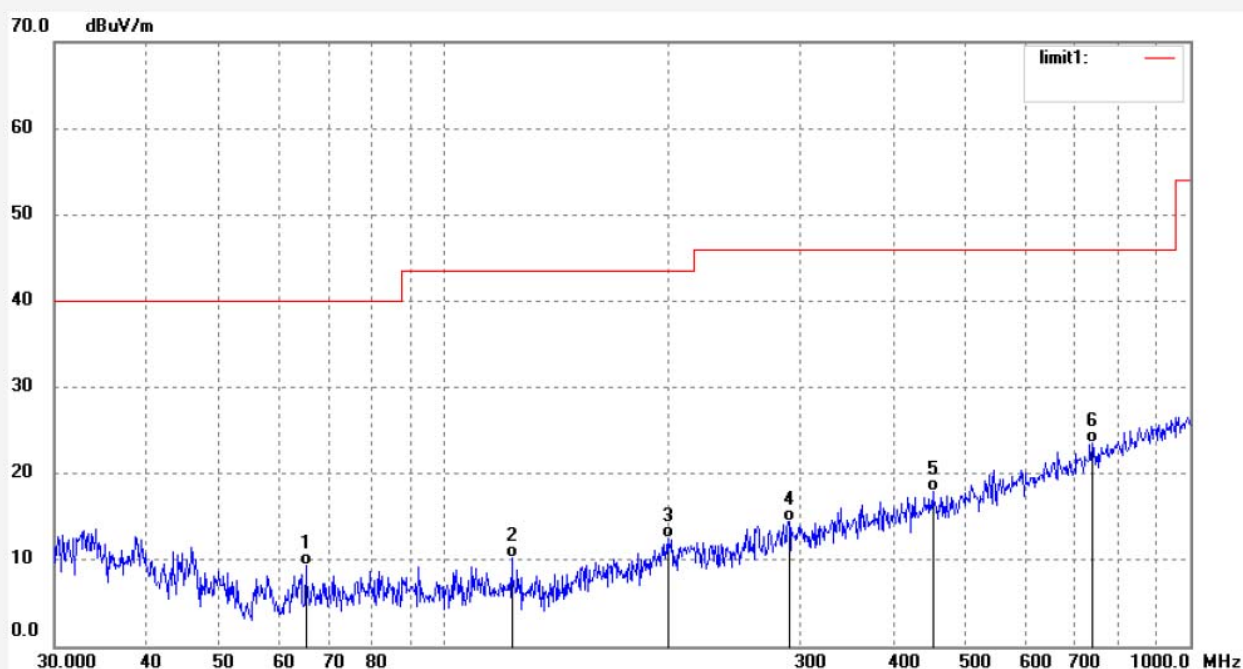
Date: 16/10/13/

Time: 14/22/21

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20162128



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 65.2156     | 32.11            | -22.69      | 9.42            | 40.00          | -30.58      | QP       |             |               |        |
| 2   | 123.1814    | 33.20            | -22.96      | 10.24           | 43.50          | -33.26      | QP       |             |               |        |
| 3   | 199.3415    | 32.17            | -19.68      | 12.49           | 43.50          | -31.01      | QP       |             |               |        |
| 4   | 290.3170    | 31.71            | -17.32      | 14.39           | 46.00          | -31.61      | QP       |             |               |        |
| 5   | 452.0013    | 31.49            | -13.61      | 17.88           | 46.00          | -28.12      | QP       |             |               |        |
| 6   | 739.2136    | 30.90            | -7.31       | 23.59           | 46.00          | -22.41      | QP       |             |               |        |

Job No.: DING #2477

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2440MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Horizontal

Power Source: DC 3V

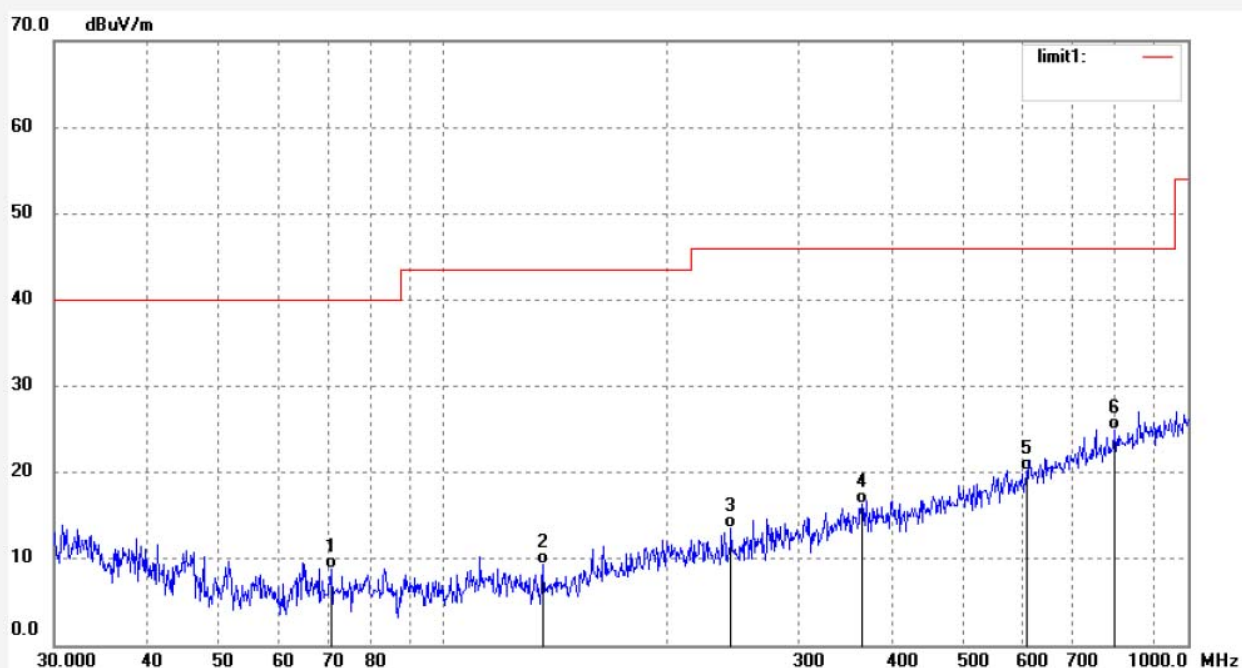
Date: 16/10/13/

Time: 14/28/54

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20162128



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 70.7047     | 31.80            | -22.89      | 8.91            | 40.00          | -31.09      | QP       |             |               |        |
| 2   | 135.9163    | 32.51            | -23.21      | 9.30            | 43.50          | -34.20      | QP       |             |               |        |
| 3   | 243.5431    | 32.62            | -19.11      | 13.51           | 46.00          | -32.49      | QP       |             |               |        |
| 4   | 364.8025    | 31.44            | -15.00      | 16.44           | 46.00          | -29.56      | QP       |             |               |        |
| 5   | 607.1806    | 30.42            | -10.20      | 20.22           | 46.00          | -25.78      | QP       |             |               |        |
| 6   | 798.6204    | 31.06            | -6.16       | 24.90           | 46.00          | -21.10      | QP       |             |               |        |

Job No.: DING #2476

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2440MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Vertical

Power Source: DC 3V

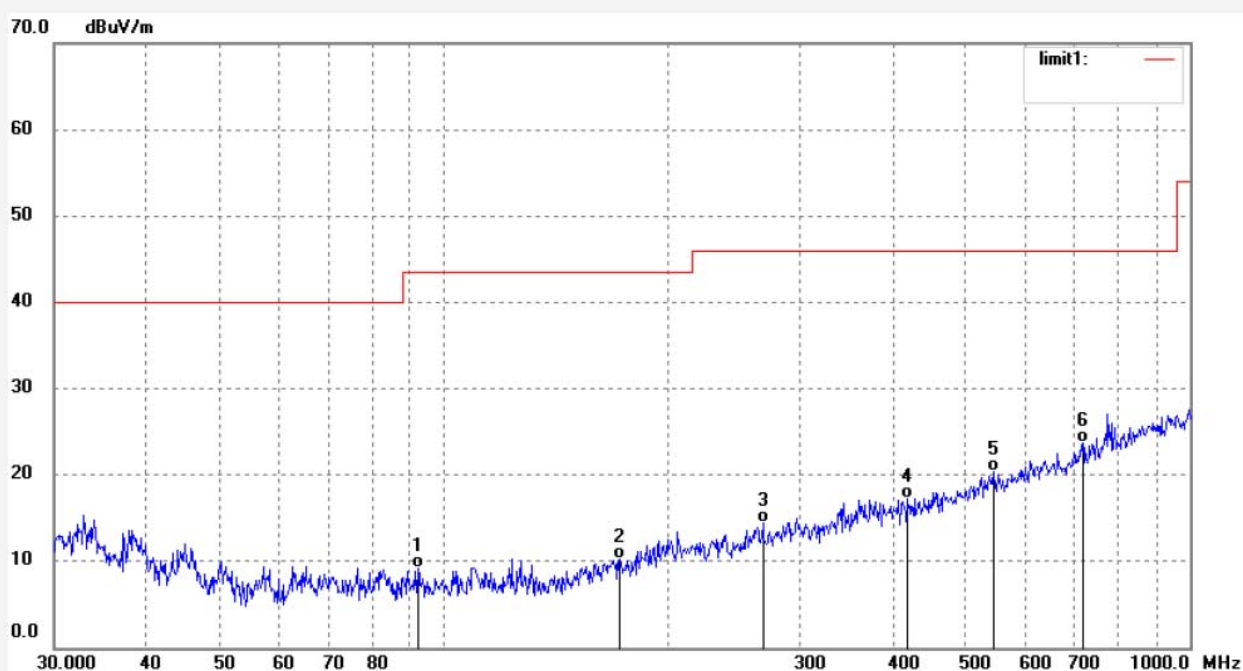
Date: 16/10/13/

Time: 14/26/33

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20162128



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 92.3461     | 32.06            | -22.91      | 9.15            | 43.50          | -34.35      | QP       |             |               |        |
| 2   | 171.9921    | 31.69            | -21.47      | 10.22           | 43.50          | -33.28      | QP       |             |               |        |
| 3   | 267.7787    | 32.53            | -18.06      | 14.47           | 46.00          | -31.53      | QP       |             |               |        |
| 4   | 418.3783    | 31.73            | -14.41      | 17.32           | 46.00          | -28.68      | QP       |             |               |        |
| 5   | 546.4366    | 32.07            | -11.72      | 20.35           | 46.00          | -25.65      | QP       |             |               |        |
| 6   | 718.7246    | 31.49            | -7.86       | 23.63           | 46.00          | -22.37      | QP       |             |               |        |



Job No.: DING #2478

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2480MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Horizontal

Power Source: DC 3V

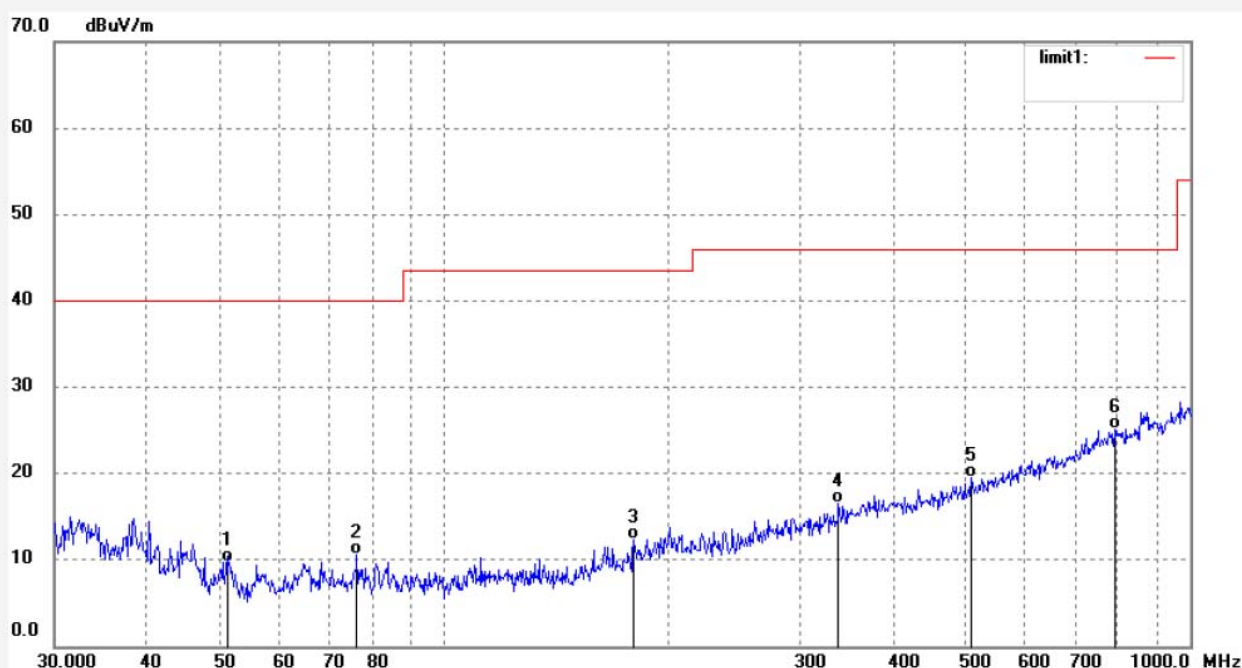
Date: 16/10/13/

Time: 14/30/18

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20162128



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 51.5363     | 31.62            | -21.86      | 9.76            | 40.00          | -30.24      | QP       |             |               |        |
| 2   | 76.3868     | 33.65            | -23.05      | 10.60           | 40.00          | -29.40      | QP       |             |               |        |
| 3   | 179.3989    | 33.73            | -21.35      | 12.38           | 43.50          | -31.12      | QP       |             |               |        |
| 4   | 337.6660    | 32.33            | -15.85      | 16.48           | 46.00          | -29.52      | QP       |             |               |        |
| 5   | 509.3559    | 32.12            | -12.60      | 19.52           | 46.00          | -26.48      | QP       |             |               |        |
| 6   | 793.0280    | 31.33            | -6.24       | 25.09           | 46.00          | -20.91      | QP       |             |               |        |



# ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Report No.: ATE20162128

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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: DING #2479

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2480MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Vertical

Power Source: DC 3V

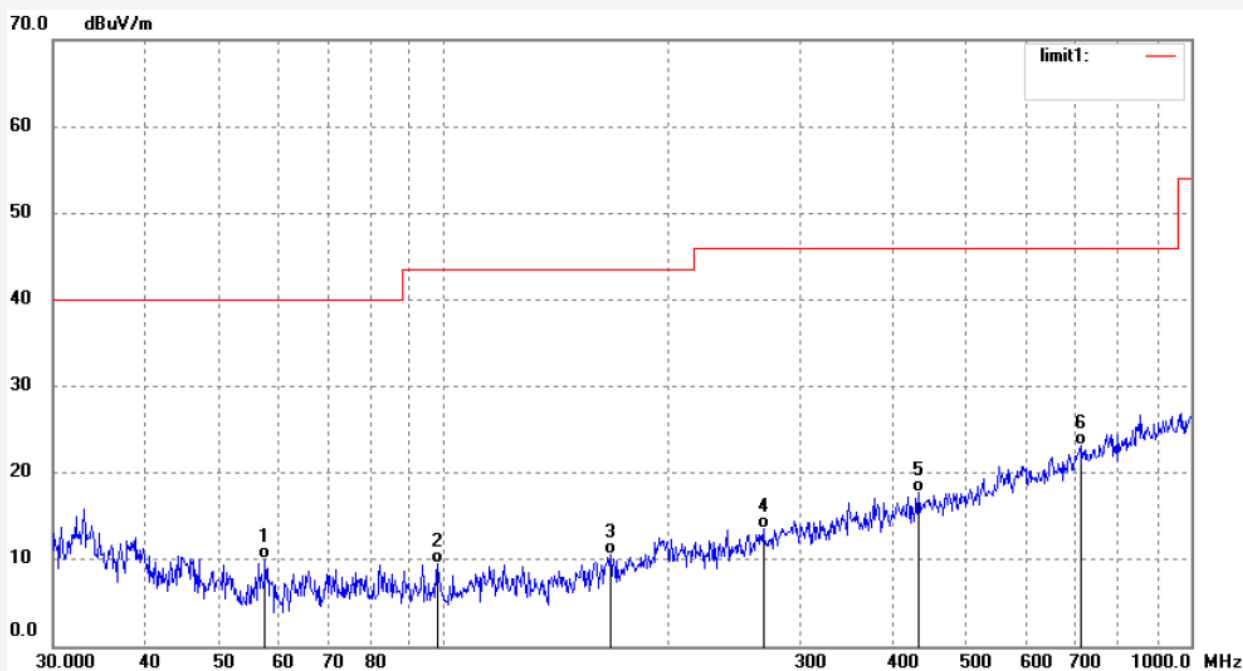
Date: 16/10/13/

Time: 14/32/39

Engineer Signature: DING

Distance: 3m

Note: Report NO.:ATE20162128

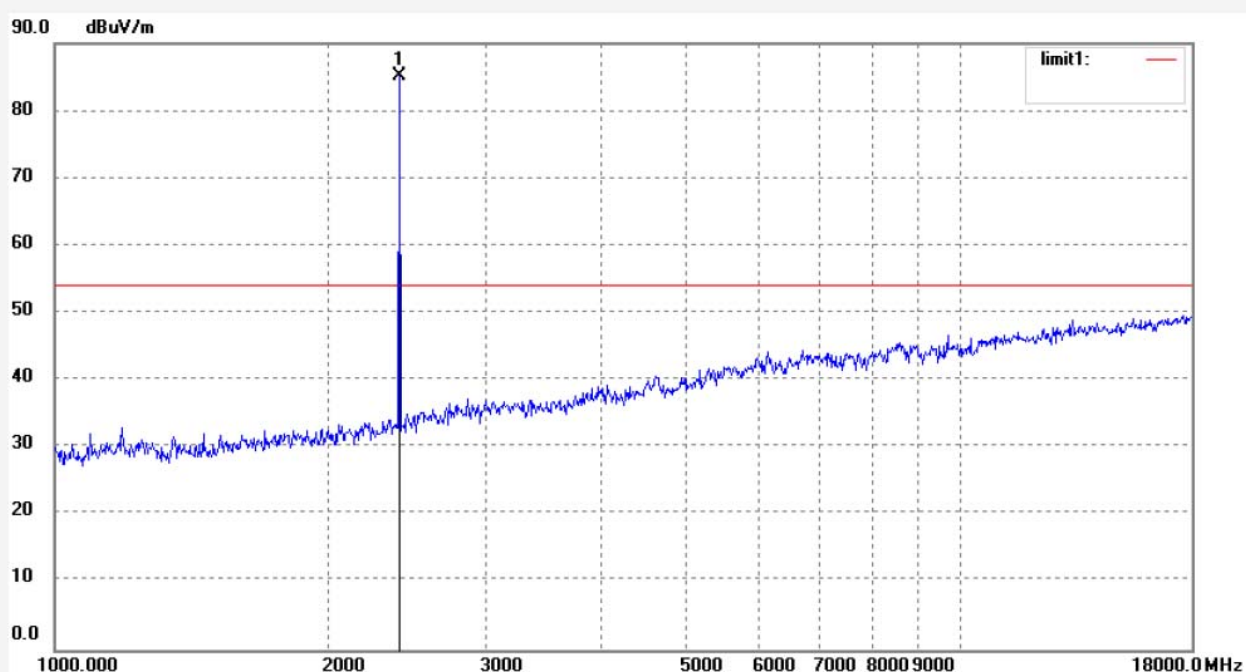


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 57.6692     | 32.55            | -22.51      | 10.04           | 40.00          | -29.96      | QP       |             |               |        |
| 2   | 98.0301     | 32.96            | -23.34      | 9.62            | 43.50          | -33.88      | QP       |             |               |        |
| 3   | 167.2249    | 32.11            | -21.56      | 10.55           | 43.50          | -32.95      | QP       |             |               |        |
| 4   | 267.7787    | 31.54            | -18.06      | 13.48           | 46.00          | -32.52      | QP       |             |               |        |
| 5   | 431.8197    | 31.86            | -14.12      | 17.74           | 46.00          | -28.26      | QP       |             |               |        |
| 6   | 711.1884    | 31.30            | -8.05       | 23.25           | 46.00          | -22.75      | QP       |             |               |        |

Job No.: DING2016 #631  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Distance Pro  
Mode: TX 2402MHz  
Model: GS00001  
Manufacturer: LATITUDE

Polarization: Horizontal  
Power Source: DC 3V  
Date: 16/10/12/  
Time: 10/35/42  
Engineer Signature: star  
Distance: 3m

Note: Report No.:ATE20162128



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 2402.599       | 92.81               | -7.60          | 85.21              |                   |                | peak     |                |                  |        |

Job No.: DING2016 #632

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2402MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Vertical

Power Source: DC 3V

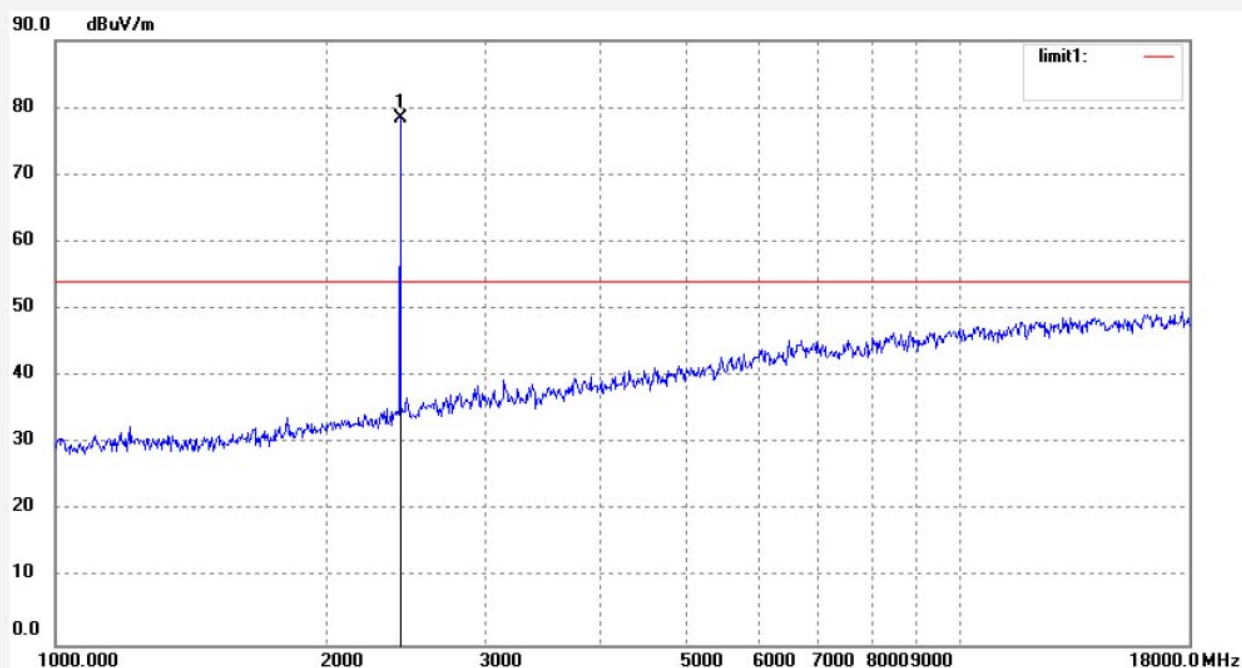
Date: 16/10/12/

Time: 10/40/14

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20162128



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 2402.600       | 86.02               | -7.60          | 78.42              |                   |                | peak     |                |                  |        |



Job No.: DING2016 #634

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2440MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Horizontal

Power Source: DC 3V

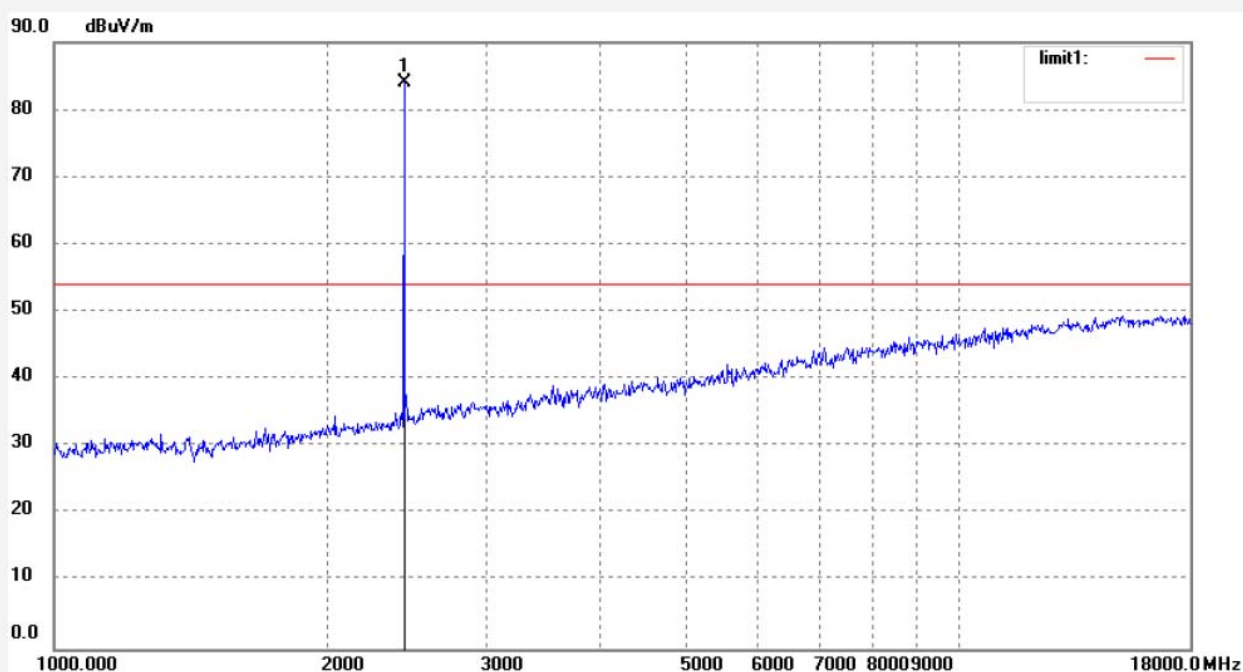
Date: 16/10/12/

Time: 10/51/19

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20162128



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2440.802    | 91.53            | -7.49       | 84.04           |                |             | peak     |             |               |        |

Job No.: DING2016 #633

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2440MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Vertical

Power Source: DC 3V

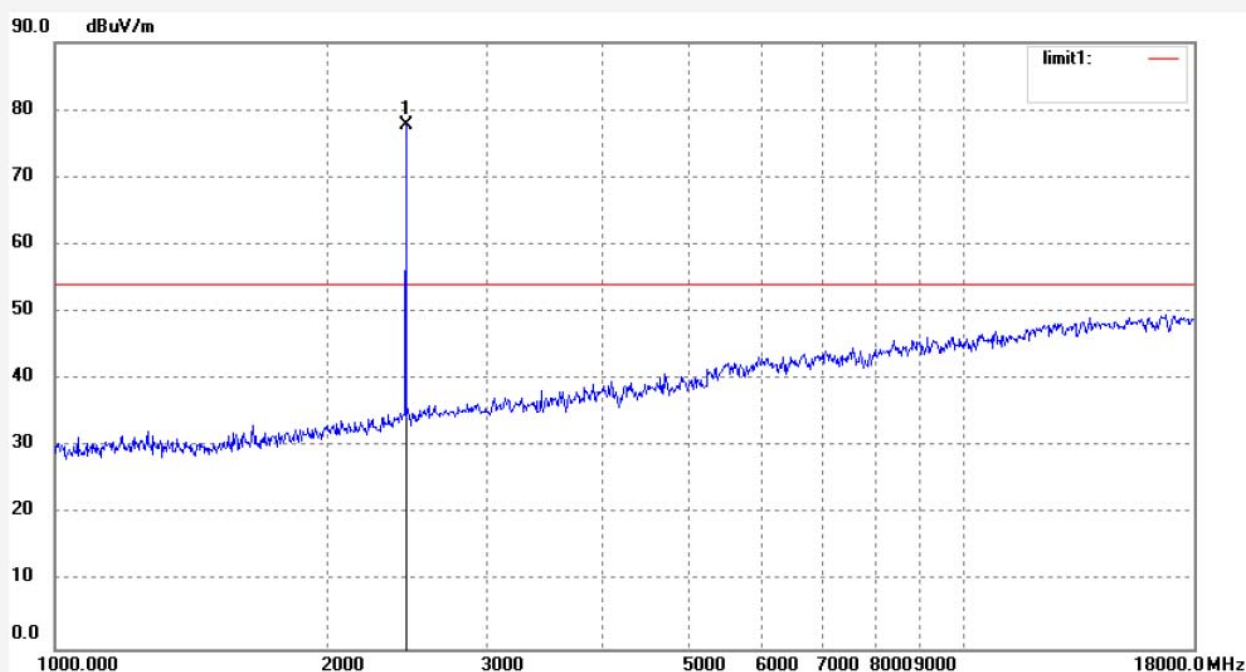
Date: 16/10/12/

Time: 10/46/25

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20162128



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2440.807    | 85.25            | -7.49       | 77.76           |                |             | peak     |             |               |        |

Job No.: DING2016 #635

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2480MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Horizontal

Power Source: DC 3V

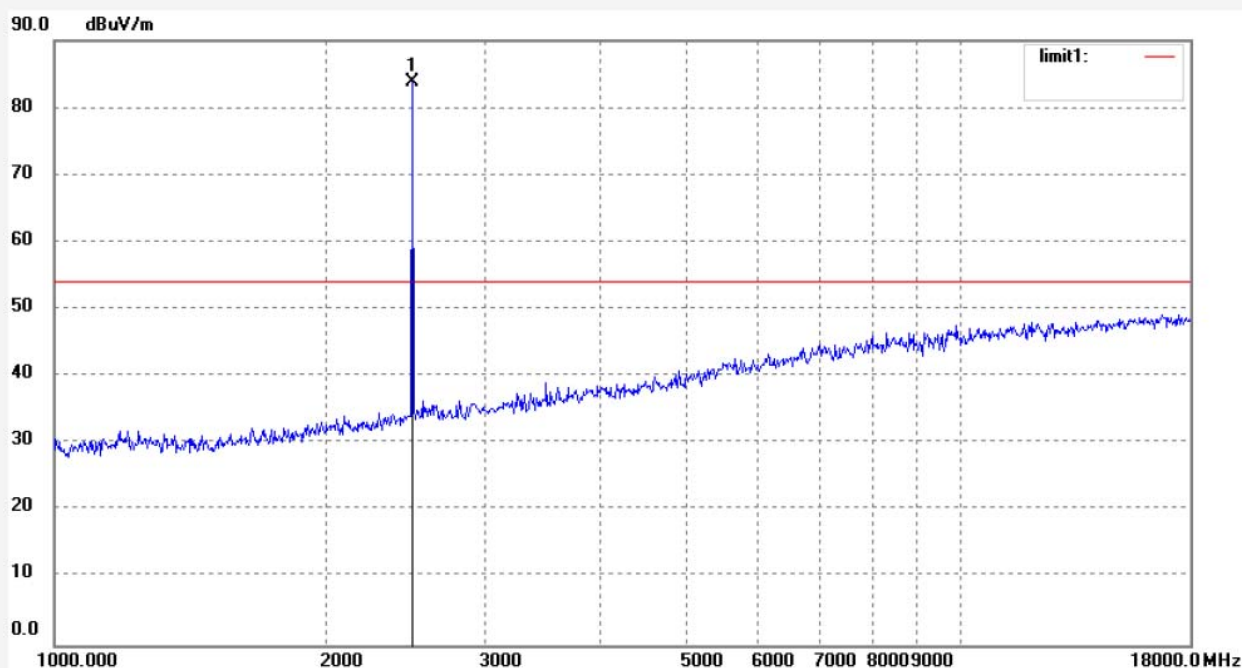
Date: 16/10/12/

Time: 10/56/32

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20162128



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 2480.167       | 91.20               | -7.38          | 83.82              |                   |                | peak     |                |                  |        |

Job No.: DING2016 #636

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 25 C / 55 %

EUT: Distance Pro

Mode: TX 2480MHz

Model: GS00001

Manufacturer: LATITUDE

Polarization: Vertical

Power Source: DC 3V

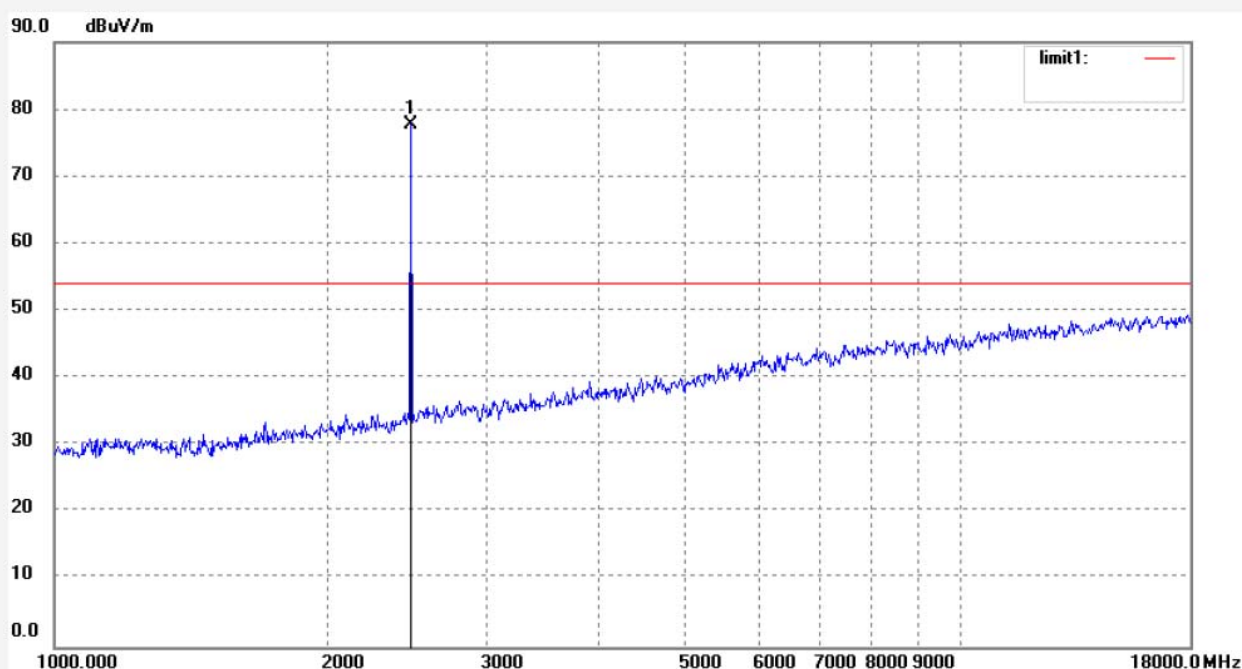
Date: 16/10/12/

Time: 11/01/45

Engineer Signature: star

Distance: 3m

Note: Report No.:ATE20162128



| No. | Freq.<br>(MHz) | Reading<br>(dBuV/m) | Factor<br>(dB) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Detector | Height<br>(cm) | Degree<br>(deg.) | Remark |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
| 1   | 2480.238       | 85.12               | -7.38          | 77.74              |                   |                | peak     |                |                  |        |

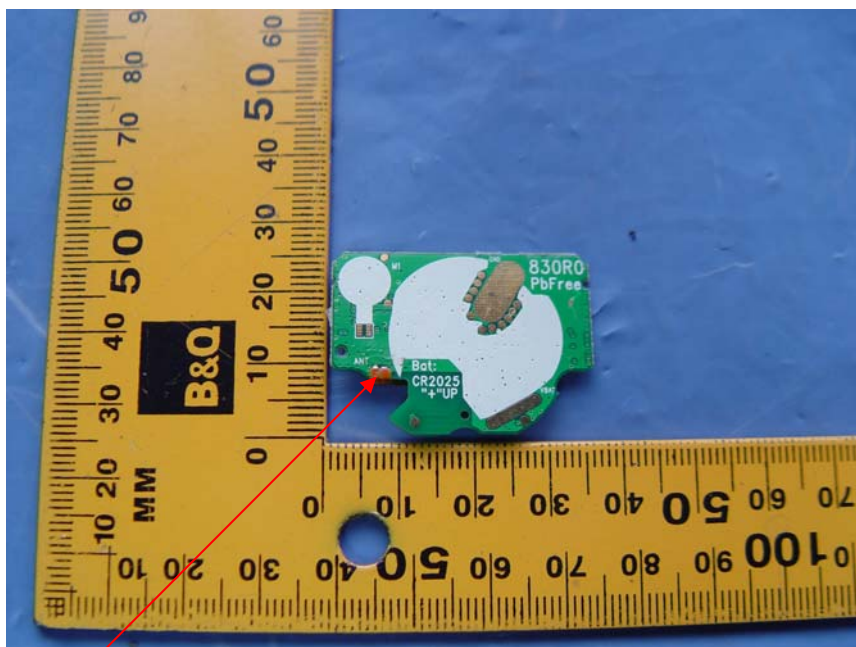
## 10.ANTENNA REQUIREMENT

### 10.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 10.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 0dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna