

APPLICATION CERTIFICATION FCC Part 15C  
On Behalf of  
Long Range Systems Inc

Table Tracker  
Model No.:6863

FCC ID: M74-6863

Prepared for : Long Range Systems Inc  
Address : 4550 Excel Parkway #200, Addision, Texas, 75001, United States

Prepared by : ACCURATE TECHNOLOGY CO., LTD  
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Report Number : ATE20121266  
Date of Test : Jun 11- Oct 28, 2012  
Date of Report : Oct 28, 2012

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## Test Report Certification

Applicant : Long Range Systems Inc  
Manufacturer : SEVECO GLOBAL LIMITED.  
EUT Description : Table Tracker  
(A) MODEL NO.: 6863  
(B) TRADE NAME.: Long Range Systems  
(C) POWER SUPPLY: DC 3.7V

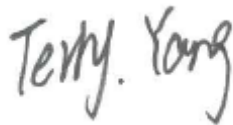
Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247**  
**ANSI C63.4: 2009**  
**KDB 558074 D01 DTS Meas Guidance v02**

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 : Jun 11-Oct 28, 2012

Prepared by :   
(Engineer)

Approved & Authorized Signer :   
(Manager)

# 1. GENERAL INFORMATION

## 1.1. Description of Device (EUT)

|                         |   |                                                                           |
|-------------------------|---|---------------------------------------------------------------------------|
| EUT                     | : | Table Tracker                                                             |
| Model Number            | : | 6863                                                                      |
| Frequency Range         | : | 2405MHz-2480MHz                                                           |
| Number of Channels      | : | 16                                                                        |
| Antenna Gain            | : | 0dBi                                                                      |
| Power Supply            | : | DC 3.7V                                                                   |
| Adapter                 | : | N/A                                                                       |
| Data Rate               | : |                                                                           |
| Applicant               | : | Long Range Systems Inc                                                    |
| Address                 | : | 4550 Excel Parkway #200, Addsion, Texas, 75001,<br>United States          |
| Manufacturer            | : | SEVECO GIOBAL LIMITED.                                                    |
| Address                 | : | 1 JianXiang Street. Hanxishui, Chashan Town Dongguan.<br>Guangdong. China |
| Date of sample received | : | Jun 11, 2012                                                              |
| Date of Test            | : | Jun 11-Oct 28, 2012                                                       |

### 1.2.Carrier Frequency of Channels

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1       | 2.405GHz  | 9       | 2.445GHz  |
| 2       | 2.410GHz  | 10      | 2.450GHz  |
| 3       | 2.415GHz  | 11      | 2.455GHz  |
| 4       | 2.420GHz  | 12      | 2.460GHz  |
| 5       | 2.425GHz  | 13      | 2.465GHz  |
| 6       | 2.430GHz  | 14      | 2.470GHz  |
| 7       | 2.435GHz  | 15      | 2.475GHz  |
| 8       | 2.440GHz  | 16      | 2.480GHz  |

### 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 <a href="#">dates</a> | Calibrated until |
|-------------------|---------------|--------------------|------------|----------------------------------|------------------|
| EMI Test Receiver | Rohde&Schwarz | ESCS30             | 100307     | Jan. 8, 2012                     | Jan. 7, 2013     |
| EMI Test Receiver | Rohde&Schwarz | ESPI3              | 101526/003 | Jan. 8, 2012                     | Jan. 7, 2013     |
| Spectrum Analyzer | Agilent       | E7405A             | MY45115511 | Jan. 8, 2012                     | Jan. 7, 2013     |
| Pre-Amplifier     | Rohde&Schwarz | CBLU118354<br>0-01 | 3791       | Jan. 8, 2012                     | Jan. 7, 2013     |
| Loop Antenna      | Schwarzbeck   | FMZB1516           | 1516131    | Jan. 8, 2012                     | Jan. 7, 2013     |
| Bilog Antenna     | Schwarzbeck   | VULB9163           | 9163-323   | Jan. 8, 2012                     | Jan. 7, 2013     |
| Horn Antenna      | Schwarzbeck   | BBHA9120D          | 9120D-655  | Jan. 8, 2012                     | Jan. 7, 2013     |
| Horn Antenna      | Schwarzbeck   | BBHA9170           | 9170-359   | Jan. 8, 2012                     | Jan. 7, 2013     |
| LISN              | Rohde&Schwarz | ESH3-Z5            | 100305     | Jan. 8, 2012                     | Jan. 7, 2013     |
| LISN              | Schwarzbeck   | NSLK8126           | 8126431    | Jan. 8, 2012                     | Jan. 7, 2013     |

### **3. OPERATION OF EUT DURING TESTING**

#### **3.1.Operating Mode**

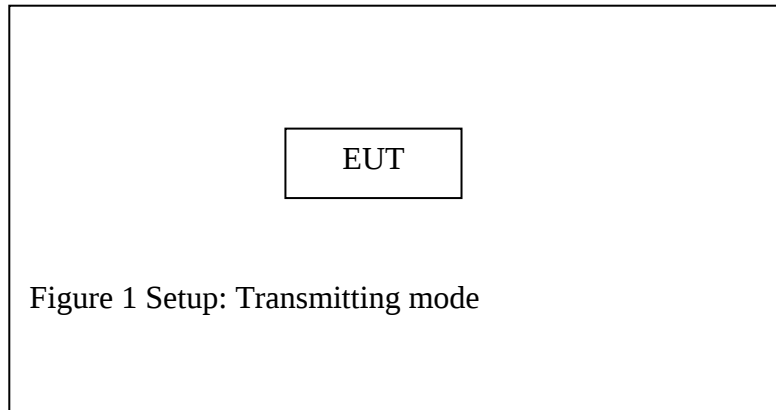
The mode is used: **Zigbee Transmitting mode**

Low Channel: 2405MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

### 3.2.Configuration and peripherals

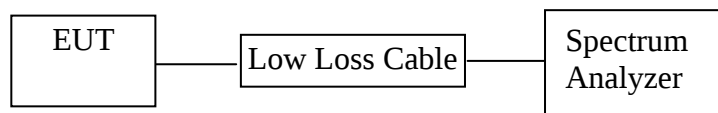


#### 4. TEST PROCEDURES AND RESULTS

| 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 |

## 5. 6DB BANDWIDTH MEASUREMENT

### 5.1. Block Diagram of Test Setup



(EUT: Table Tracker)

### 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 following 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.

#### 5.3.1. Table Tracker (EUT)

Model Number : 6863  
Serial Number : N/A

### 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 2405-2480 MHz. We select 2405MHz, 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 30 kHz and VBW to 100 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

**PASS.**

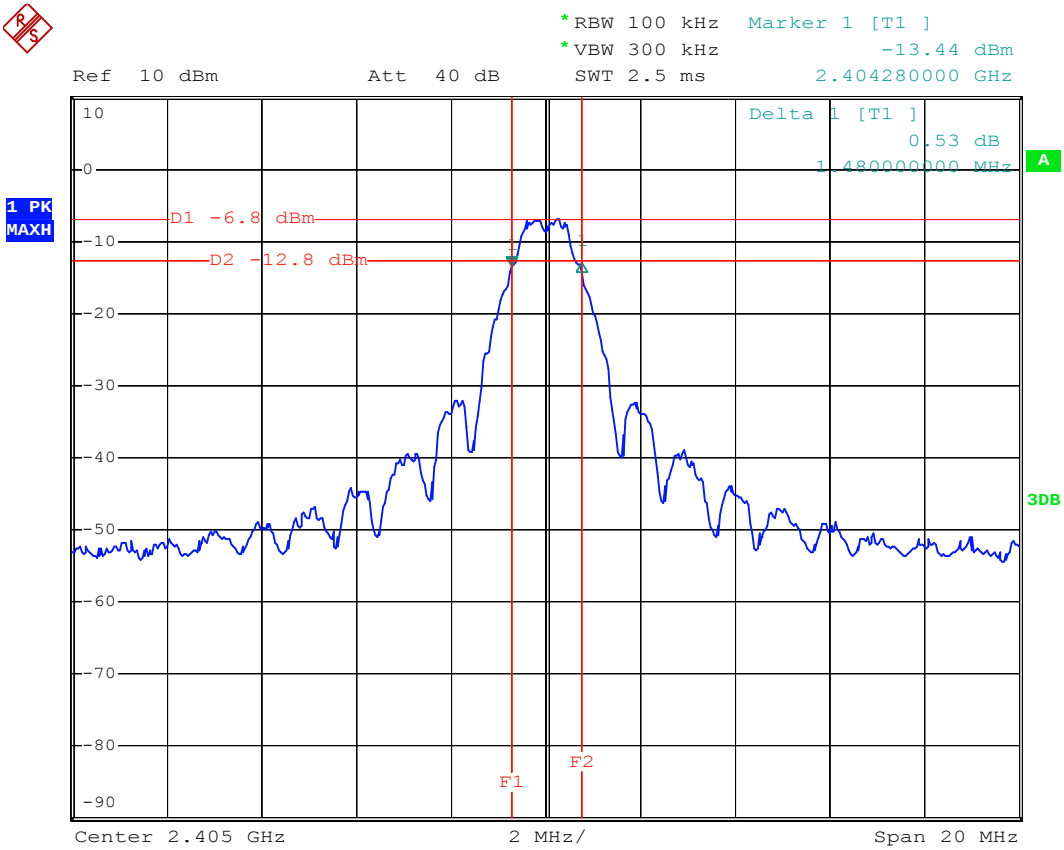
|               |               |                |         |
|---------------|---------------|----------------|---------|
| Date of Test: | Oct 26, 2012  | Temperature:   | 25°C    |
| EUT:          | Table Tracker | Humidity:      | 50%     |
| Model No.:    | 6863          | Power Supply:  | DC 3.7V |
| Test Mode:    | TX            | Test Engineer: | Star    |

The test was performed with Zigbee

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
|---------|-----------------|---------------------|-------------|
| Low     | 2405            | 1.480               | > 0.5MHz    |
| Middle  | 2440            | 1.600               | > 0.5MHz    |
| High    | 2480            | 1.640               | > 0.5MHz    |

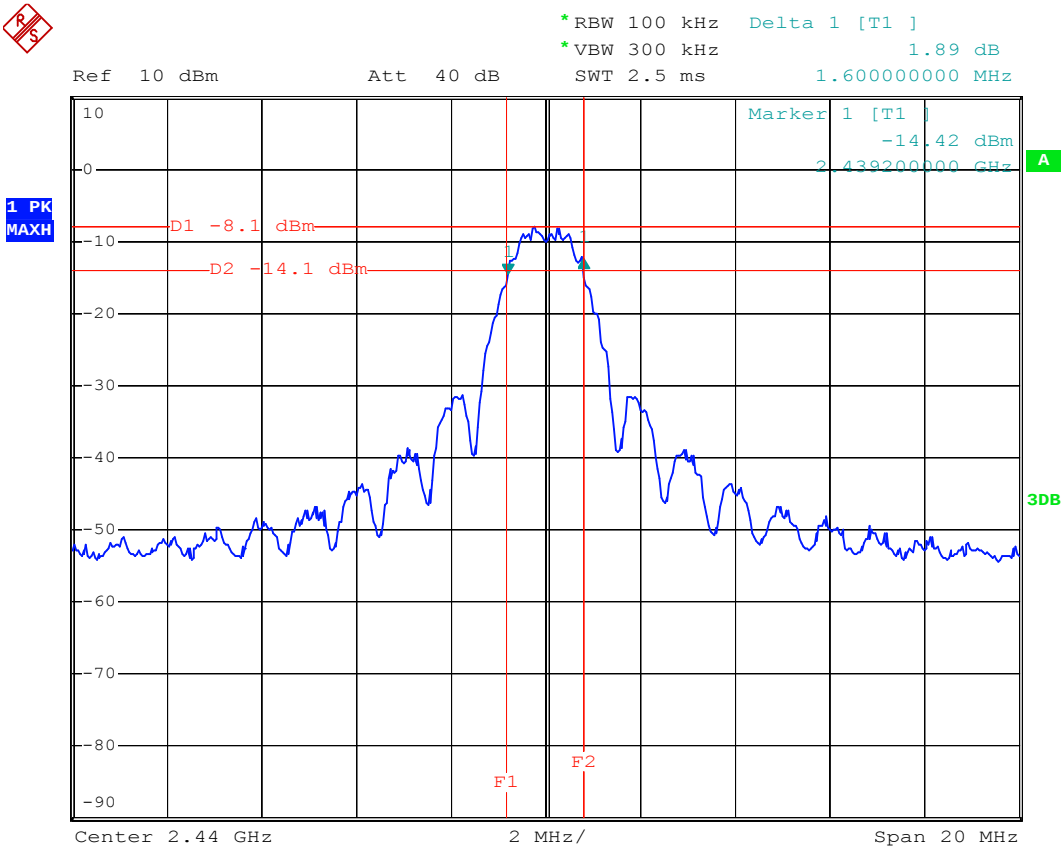
The spectrum analyzer plots are attached as below.

Zigbee Channel Low 2405MHz



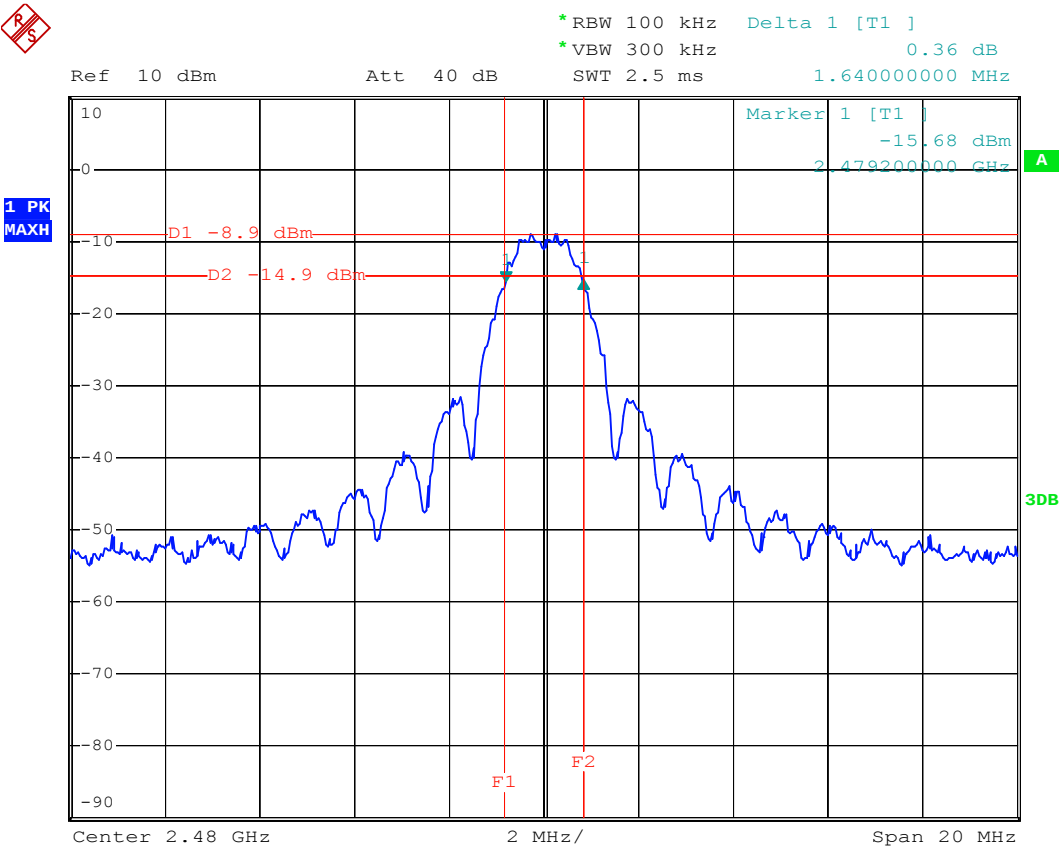
Date: 26.OCT.2012 18:27:00

Zigbee Channel Middle 2440MHz



Date: 26.OCT.2012 18:33:04

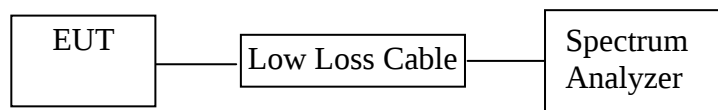
Zigbee Channel High 2480MHz



Date: 26.OCT.2012 18:37:15

## 6. MAXIMUM PEAK OUTPUT POWER

### 6.1. Block Diagram of Test Setup



(EUT: Table Tracker)

### 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 following 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.

#### 6.3.1. Table Tracker (EUT)

Model Number : 6863

Serial Number : N/A

### 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 2405-2480 MHz. We select 2405MHz, 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. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.3. Measurement the maximum peak output power.

## 6.6. Test Result

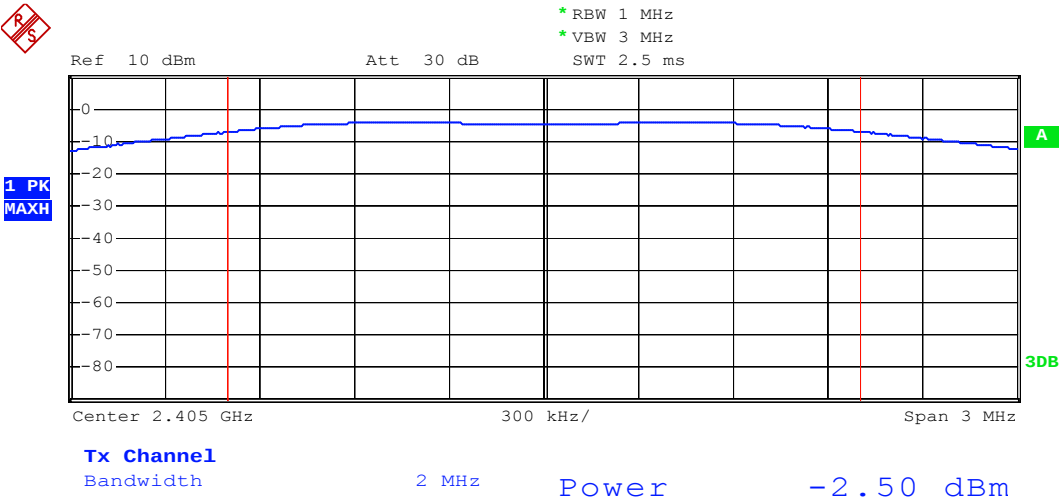
**PASS.**

|               |               |                |         |
|---------------|---------------|----------------|---------|
| Date of Test: | Oct 26, 2012  | Temperature:   | 25°C    |
| EUT:          | Table Tracker | Humidity:      | 50%     |
| Model No.:    | 6863          | Power Supply:  | DC 3.7V |
| Test Mode:    | TX            | Test Engineer: | Star    |

| The test was performed with Zigbee |                 |                         |                        |                |
|------------------------------------|-----------------|-------------------------|------------------------|----------------|
| Channel                            | Frequency (MHz) | Peak Output Power (dBm) | Peak Output Power (mW) | Limits dBm / W |
| Low                                | 2405            | -2.50                   | 0.56                   | 30 dBm / 1 W   |
| Middle                             | 2440            | -3.16                   | 0.48                   | 30 dBm / 1 W   |
| High                               | 2480            | -3.92                   | 0.41                   | 30 dBm / 1 W   |

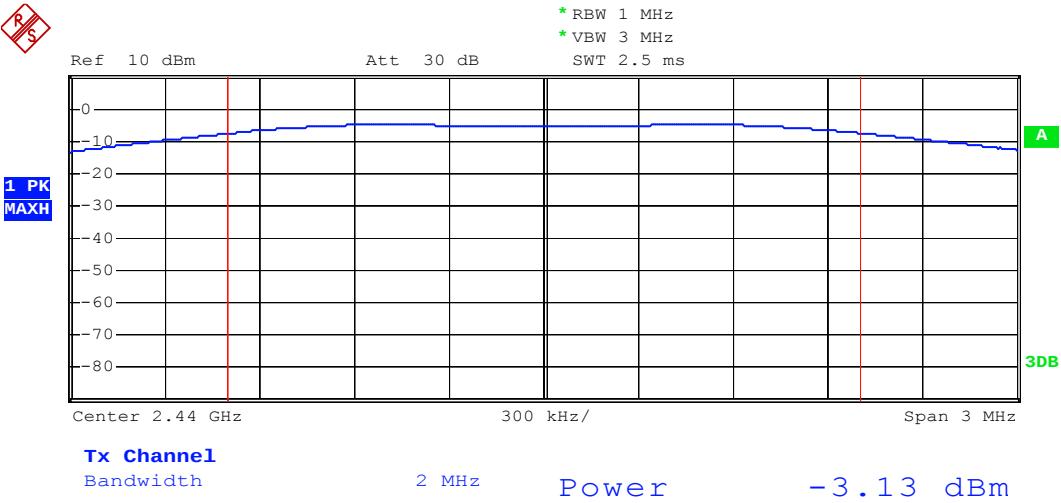
The spectrum analyzer plots are attached as below.

Zigbee Channel Low 2405MHz



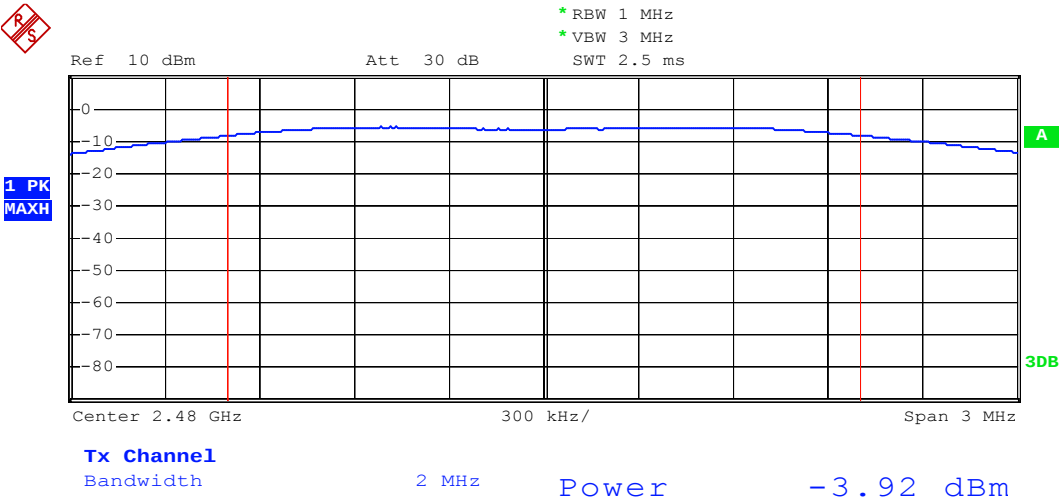
Date: 26.OCT.2012 18:41:57

Zigbee Channel Middle 2440MHz



Date: 26.OCT.2012 18:44:47

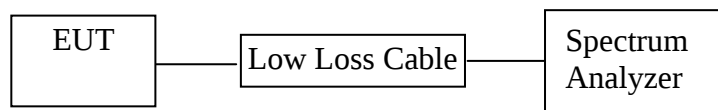
Zigbee Channel High 2480MHz



Date: 26.OCT.2012 18:39:56

## 7. POWER SPECTRAL DENSITY MEASUREMENT

### 7.1. Block Diagram of Test Setup



(EUT: Table Tracker)

### 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 following 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.

#### 7.3.1. Table Tracker (EUT)

Model Number : 6863  
Serial Number : N/A

### 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 2405-2480. We select 2405MHz, 2440MHz, and 2480MHz TX frequency to transmit.

## 7.5. Test Procedure

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

7.5.2. Set RBW of spectrum analyzer to 3 kHz and VBW to 10 kHz, sweep time = auto, span=1.5 time the DTS channel bandwidth.

7.5.3. Measurement the maximum power spectral density.

## 7.6. Test Result

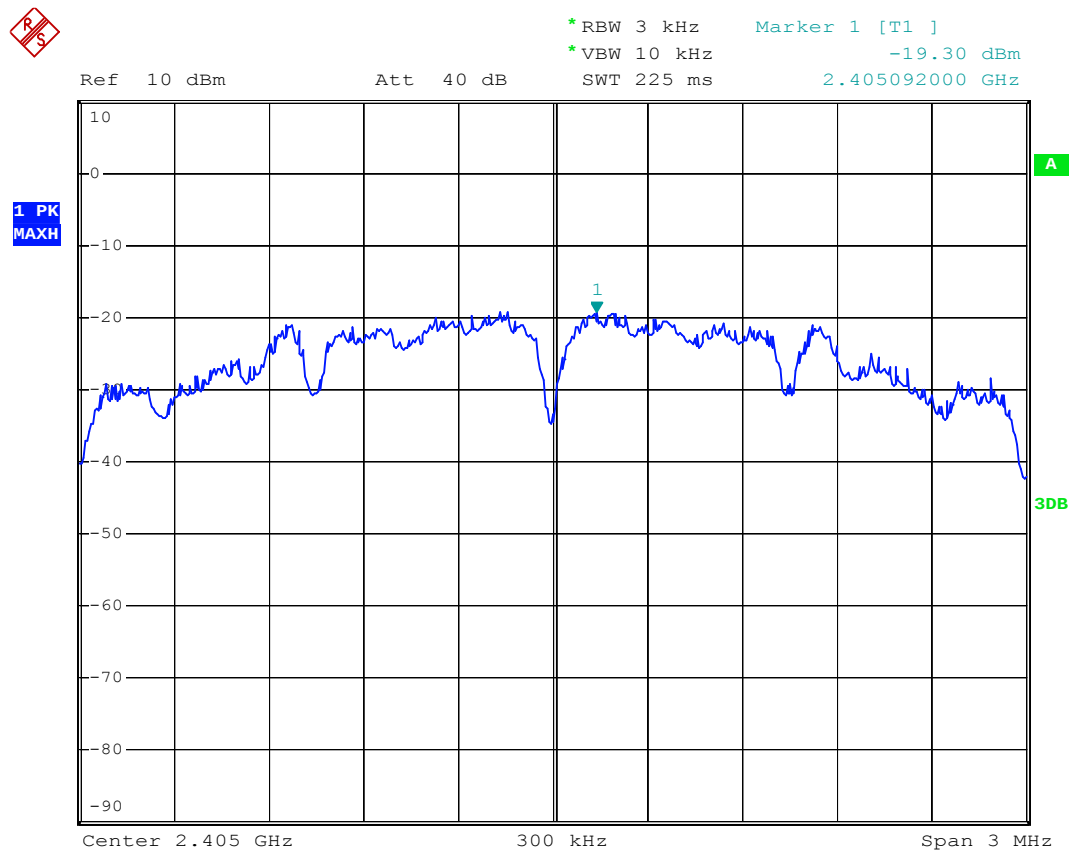
**PASS.**

|               |               |                |         |
|---------------|---------------|----------------|---------|
| Date of Test: | Oct 26, 2012  | Temperature:   | 25°C    |
| EUT:          | Table Tracker | Humidity:      | 50%     |
| Model No.:    | 6863          | Power Supply:  | DC 4.5V |
| Test Mode:    | TX            | Test Engineer: | Star    |

| The test was performed with Zigbee |                 |                                   |                   |
|------------------------------------|-----------------|-----------------------------------|-------------------|
| Channel                            | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Limits (dBm/3kHz) |
| Low                                | 2405            | -19.30                            | 8 dBm             |
| Middle                             | 2440            | -19.69                            | 8 dBm             |
| High                               | 2480            | -20.16                            | 8 dBm             |

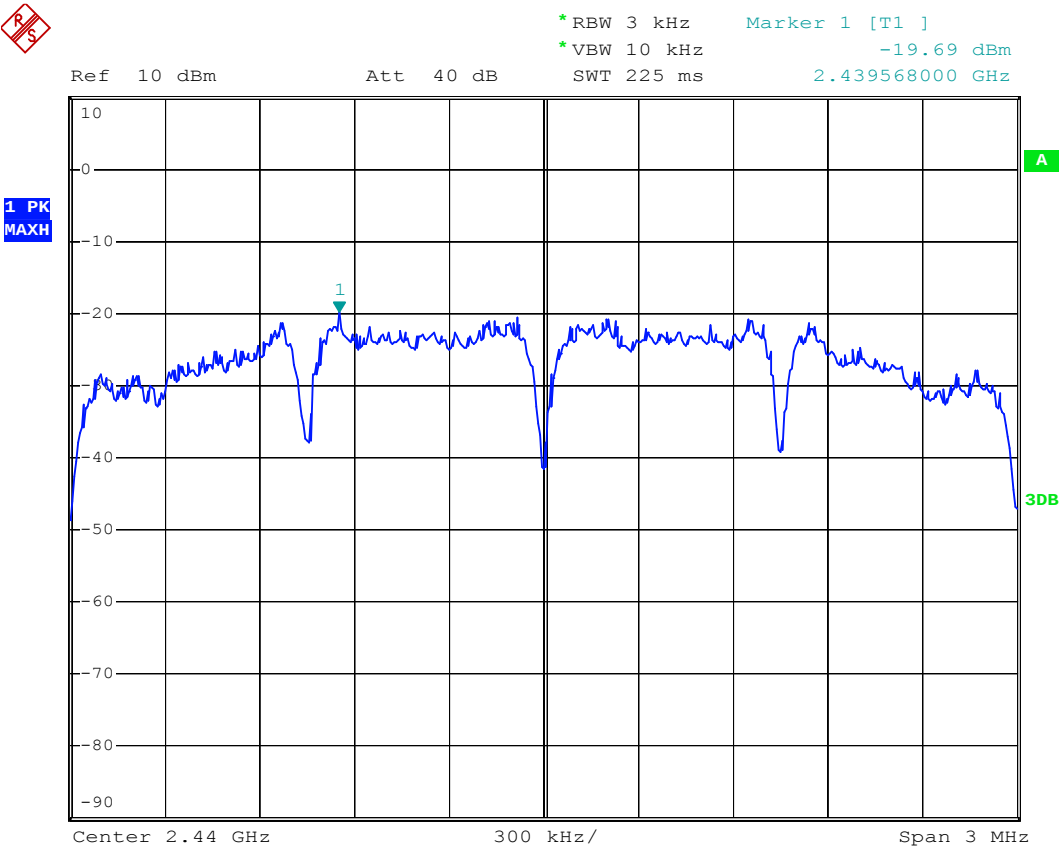
The spectrum analyzer plots are attached as below.

Zigbee Channel Low 2405MHz



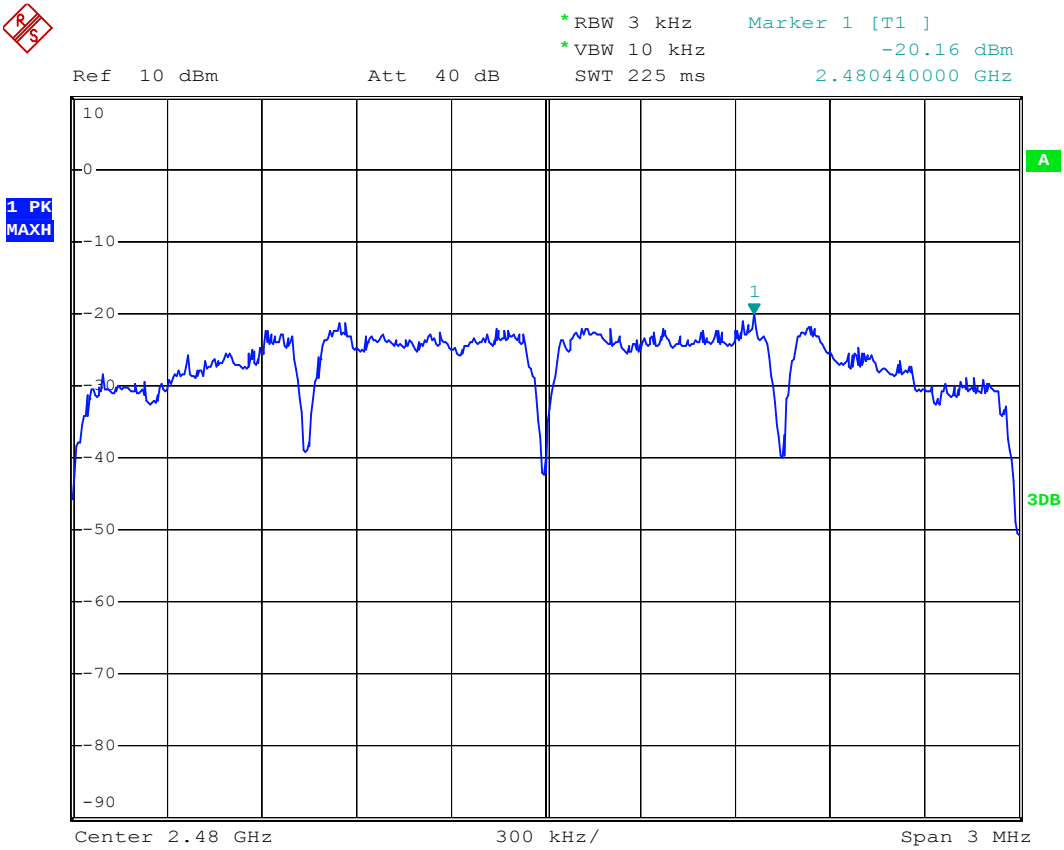
Date: 26.OCT.2012 18:50:53

Zigbee Channel Middle 2440MHz



Date: 26.OCT.2012 18:46:45

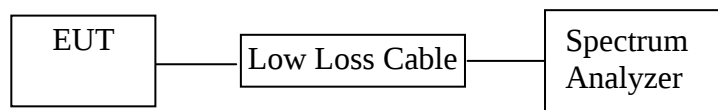
Zigbee Channel High 2480MHz



Date: 26.OCT.2012 18:48:14

## 8. BAND EDGE COMPLIANCE TEST

### 8.1. Block Diagram of Test Setup



(EUT: Table Tracker)

### 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 following 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.

#### 8.3.1. Table Tracker (EUT)

Model Number : 6863  
Serial Number : N/A

## 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 2405-2480 MHz. We select 2405MHz, 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.

### Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

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

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

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

RBW=1MHz, VBW=1MHz

8.5.7. The band edges was measured and recorded.

# 8.6. Test Result

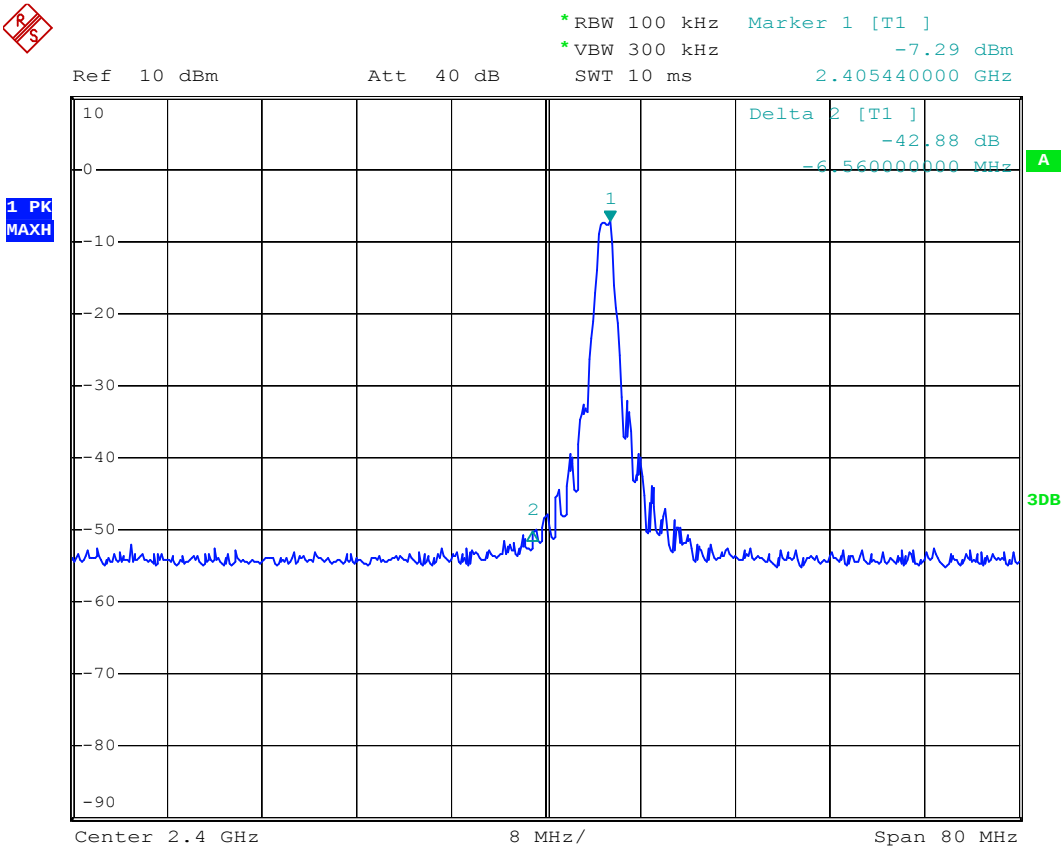
**Pass**

## Conducted test

|               |               |                |         |
|---------------|---------------|----------------|---------|
| Date of Test: | Oct 26, 2012  | Temperature:   | 25°C    |
| EUT:          | Table Tracker | Humidity:      | 50%     |
| Model No.:    | 6863          | Power Supply:  | DC 3.7V |
| Test Mode:    | TX            | Test Engineer: | Star    |

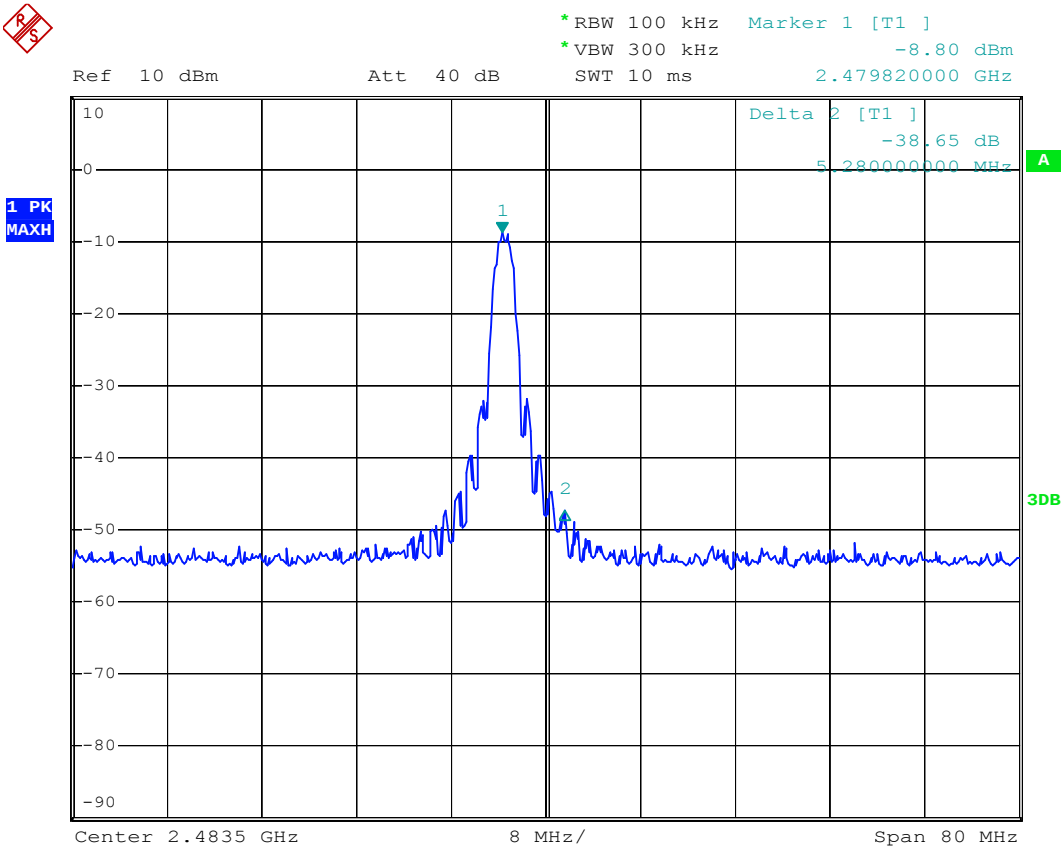
| The test was performed with Zigbee |                              |                             |
|------------------------------------|------------------------------|-----------------------------|
| Frequency<br>(MHz)                 | Result of Band Edge<br>(dBc) | Limit of Band Edge<br>(dBc) |
| 2405                               | 42.88                        | > 20dBc                     |
| 2480                               | 38.65                        | > 20dBc                     |

Zigbee Channel Low 2405MHz



Date: 26.OCT.2012 18:52:56

Zigbee Channel High 2480MHz



Date: 26.OCT.2012 18:54:41

**Radiated Band Edge Result**

|               |                            |                |         |
|---------------|----------------------------|----------------|---------|
| Date of Test: | Oct 28, 2012               | Temperature:   | 25°C    |
| EUT:          | Table Tracker              | Humidity:      | 50%     |
| Model No.:    | 6863                       | Power Supply:  | DC 3.7V |
| Test Mode:    | Zigbee Channel Low 2405MHz | Test Engineer: | Star    |

| 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   |              |
| 2310.000           | 43.00           | 48.43 | -7.81               | 35.19          | 40.62 | 54            | 74   | -18.81     | -33.38 | Vertical     |
| 2362.802           | 45.00           | 50.67 | -7.71               | 37.29          | 42.96 | 54            | 74   | -16.71     | -31.04 | Vertical     |
| 2390.000           | 45.02           | 50.02 | -7.53               | 37.49          | 42.49 | 54            | 74   | -16.51     | -31.51 | Vertical     |
| 2310.000           | 43.25           | 48.83 | -7.81               | 35.44          | 41.02 | 54            | 74   | -18.56     | -32.98 | Horizontal   |
| 2361.404           | 45.28           | 50.49 | -7.71               | 37.57          | 42.78 | 54            | 74   | -16.43     | -31.22 | Horizontal   |
| 2390.000           | 42.36           | 47.94 | -7.53               | 34.83          | 40.41 | 54            | 74   | -19.17     | -33.59 | 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:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

3. Display the measurement of peak values.

|               |                             |                |         |
|---------------|-----------------------------|----------------|---------|
| Date of Test: | Oct 28, 2012                | Temperature:   | 25°C    |
| EUT:          | Table Tracker               | Humidity:      | 50%     |
| Model No.:    | 6863                        | Power Supply:  | DC 4.5V |
| Test Mode:    | Zigbee Channel High 2480MHz | Test Engineer: | Star    |

| 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           | 58.39           | 64.14 | -7.37               | 51.02          | 56.77 | 54            | 74   | -2.98      | -17.23 | Vertical     |
| 2486.874           | 45.02           | 52.98 | -7.38               | 37.64          | 45.60 | 54            | 74   | -16.36     | -28.40 | Vertical     |
| 2500.000           | 42.39           | 48.26 | -7.40               | 34.99          | 40.86 | 54            | 74   | -19.01     | -33.14 | Vertical     |
| 2483.500           | 51.00           | 58.38 | -7.37               | 43.63          | 51.01 | 54            | 74   | -10.37     | -22.99 | Horizontal   |
| 2490.517           | 42.69           | 49.50 | -7.38               | 35.31          | 42.12 | 54            | 74   | -18.69     | -31.88 | Horizontal   |
| 2500.000           | 41.00           | 47.69 | -7.40               | 33.60          | 40.29 | 54            | 74   | -20.40     | -33.71 | 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.



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #3002

Standard: FCC 15C PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 1

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

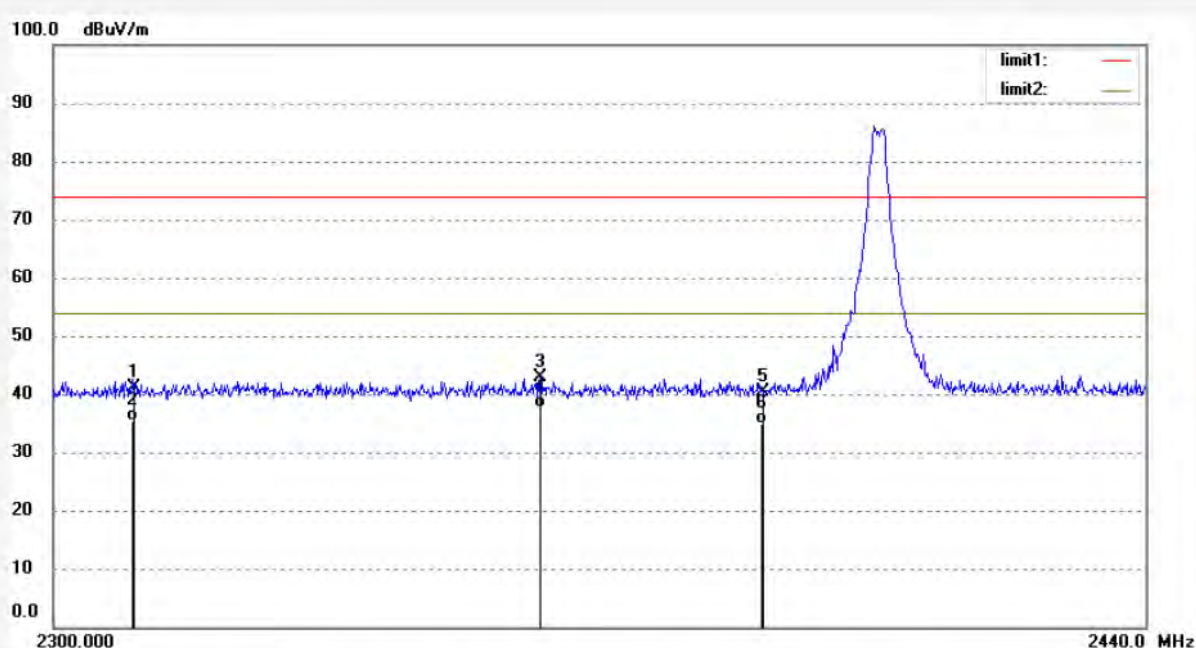
Date: 12/10/28/

Time: 3/10/22

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121266



| 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   | 2310.000       | 48.83               | -7.81          | 41.02              | 74.00             | -32.98         | peak     |                |                  |        |
| 2   | 2310.000       | 43.25               | -7.81          | 35.44              | 54.00             | -18.56         | AVG      |                |                  |        |
| 3   | 2361.404       | 50.49               | -7.71          | 42.78              | 74.00             | -31.22         | peak     |                |                  |        |
| 4   | 2361.404       | 45.28               | -7.71          | 37.57              | 54.00             | -16.43         | AVG      |                |                  |        |
| 5   | 2390.000       | 47.94               | -7.53          | 40.41              | 74.00             | -33.59         | peak     |                |                  |        |
| 6   | 2390.000       | 42.36               | -7.53          | 34.83              | 54.00             | -19.17         | AVG      |                |                  |        |



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #3003

Standard: FCC 15C PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 1

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical

Power Source: DC 3.7V

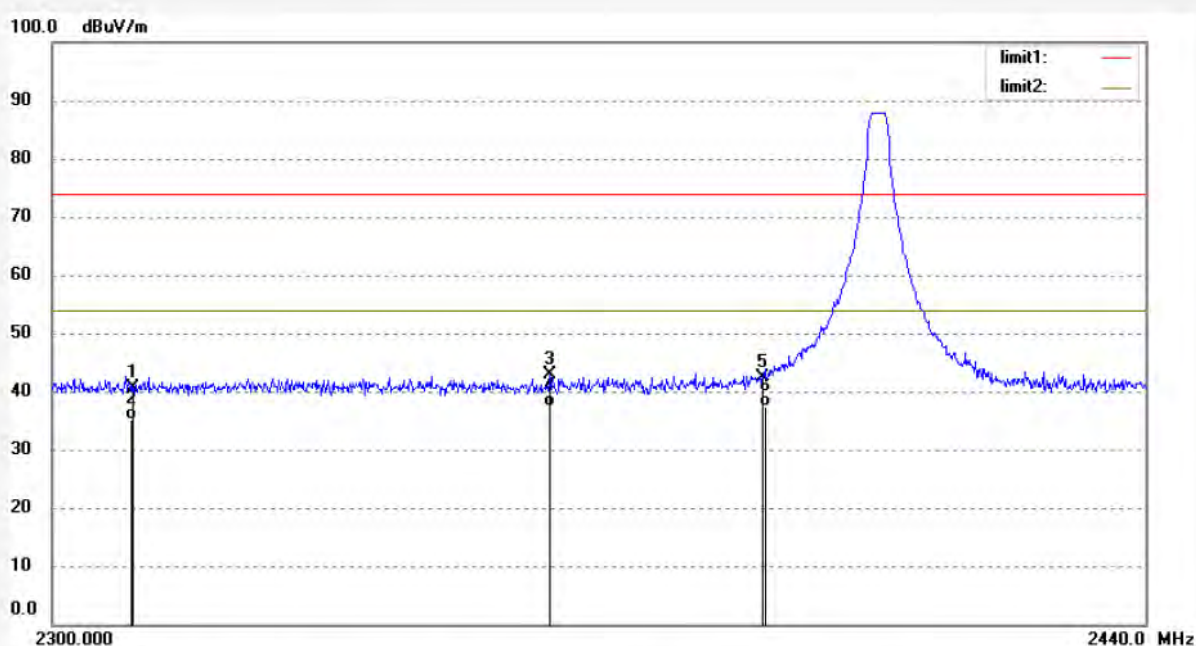
Date: 12/10/28/

Time: 3/14/07

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121266



| 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   | 2310.000       | 48.43               | -7.81          | 40.62              | 74.00             | -33.38         | peak     |                |                  |        |
| 2   | 2310.000       | 43.00               | -7.81          | 35.19              | 54.00             | -18.81         | AVG      |                |                  |        |
| 3   | 2362.802       | 50.67               | -7.71          | 42.96              | 74.00             | -31.04         | peak     |                |                  |        |
| 4   | 2362.802       | 45.00               | -7.71          | 37.29              | 54.00             | -16.71         | AVG      |                |                  |        |
| 5   | 2390.000       | 50.02               | -7.53          | 42.49              | 74.00             | -31.51         | peak     |                |                  |        |
| 6   | 2390.000       | 45.02               | -7.53          | 37.49              | 54.00             | -16.51         | AVG      |                |                  |        |


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Tel:+86-0755-26503290

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Job No.: STAR #3004

Standard: FCC 15C PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 16

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical

Power Source: DC 3.7V

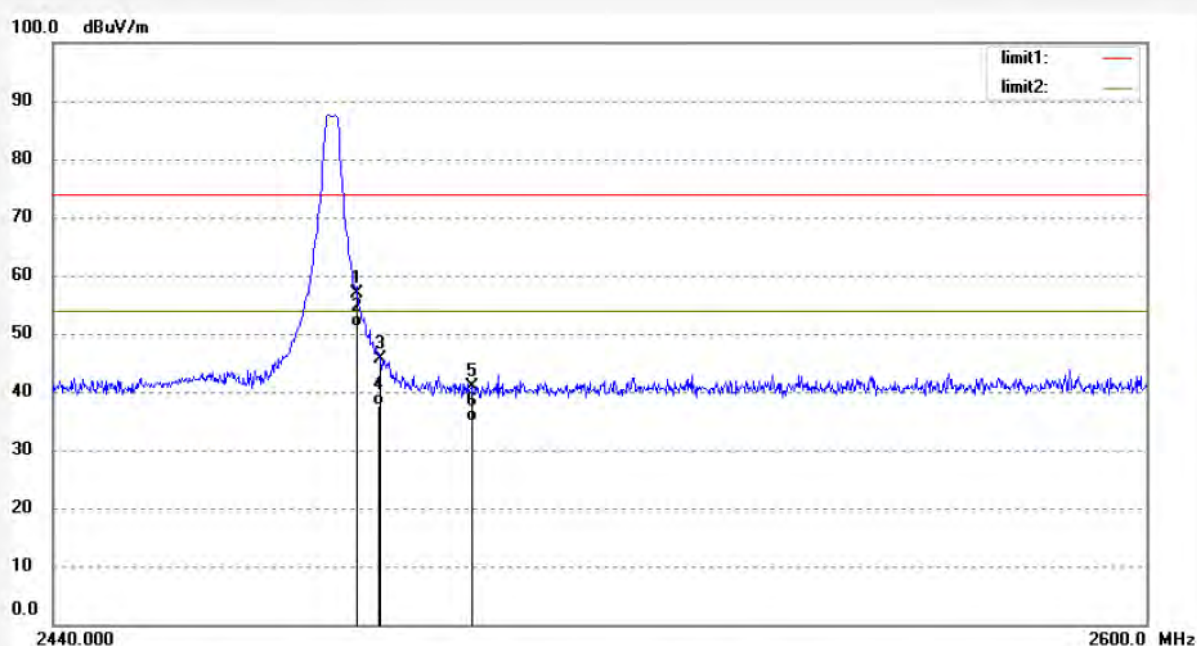
Date: 12/10/28/

Time: 3/18/21

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121266



| 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    | 64.14            | -7.37       | 56.77           | 74.00          | -17.23      | peak     |             |               |        |
| 2   | 2483.500    | 58.39            | -7.37       | 51.02           | 54.00          | -2.98       | AVG      |             |               |        |
| 3   | 2486.874    | 52.98            | -7.38       | 45.60           | 74.00          | -28.40      | peak     |             |               |        |
| 4   | 2486.874    | 45.02            | -7.38       | 37.64           | 54.00          | -16.36      | AVG      |             |               |        |
| 5   | 2500.000    | 48.26            | -7.40       | 40.86           | 74.00          | -33.14      | peak     |             |               |        |
| 6   | 2500.000    | 42.39            | -7.40       | 34.99           | 54.00          | -19.01      | AVG      |             |               |        |



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Fax:+86-0755-26503396

Job No.: STAR #3005

Standard: FCC 15C PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 16

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

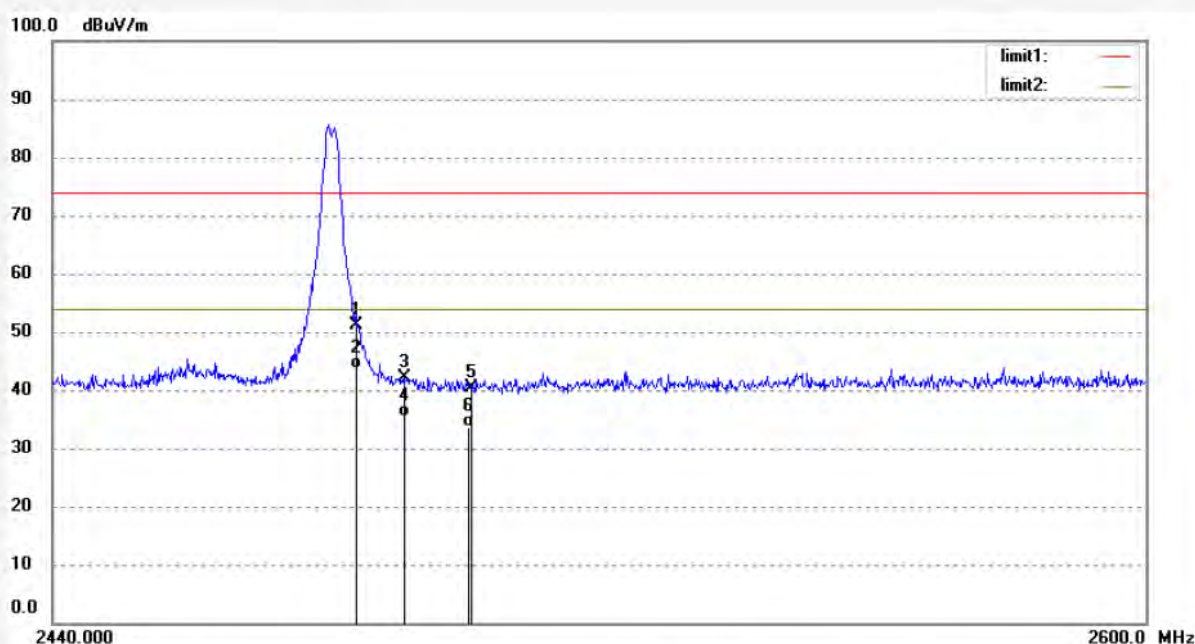
Date: 12/10/28/

Time: 3/22/19

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121266

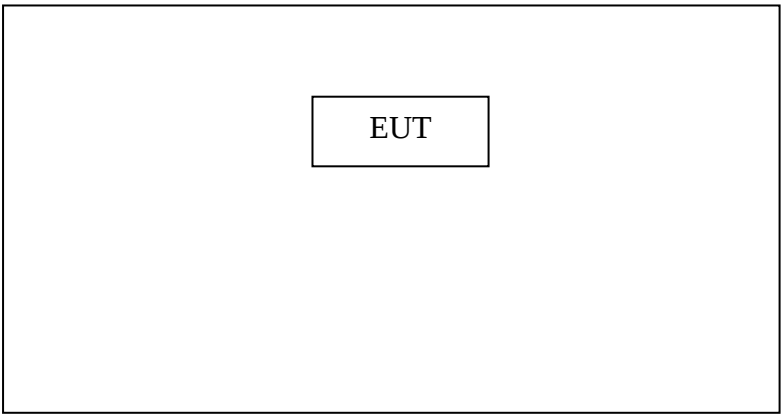


| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.500    | 58.38            | -7.37       | 51.01           | 74.00          | -22.99      | peak     |             |               |        |
| 2   | 2483.500    | 51.00            | -7.37       | 43.63           | 54.00          | -10.37      | AVG      |             |               |        |
| 3   | 2490.517    | 49.50            | -7.38       | 42.12           | 74.00          | -31.88      | peak     |             |               |        |
| 4   | 2490.517    | 42.69            | -7.38       | 35.31           | 54.00          | -18.69      | AVG      |             |               |        |
| 5   | 2500.000    | 47.69            | -7.40       | 40.29           | 74.00          | -33.71      | peak     |             |               |        |
| 6   | 2500.000    | 41.00            | -7.40       | 33.60           | 54.00          | -20.40      | AVG      |             |               |        |

# 9. RADIATED SPURIOUS EMISSION TEST

## 9.1. Block Diagram of Test Setup

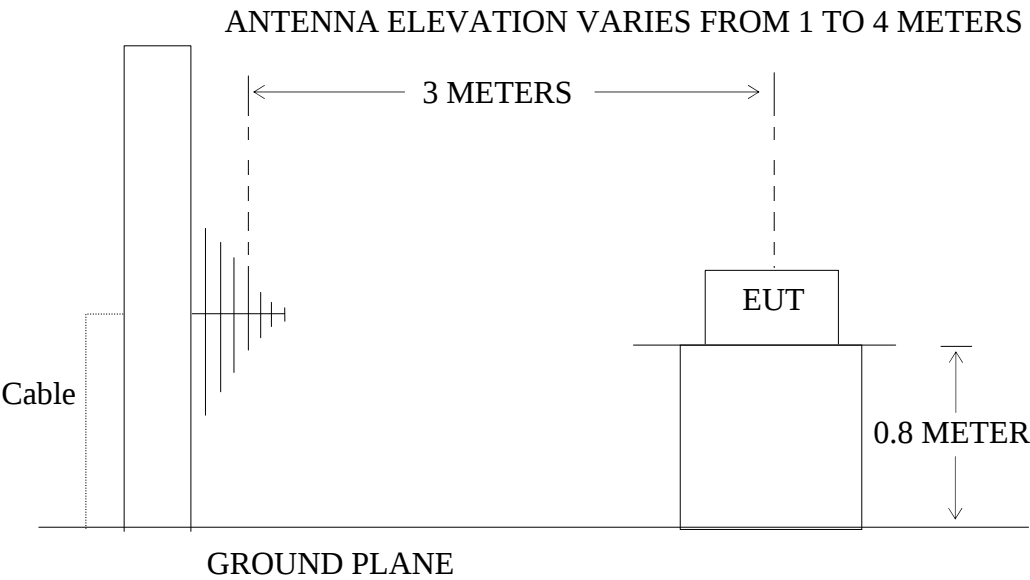
### 9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: Table Tracker)

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



(EUT: Table Tracker)

## 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 following 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.

### 9.4.1.Table Tracker (EUT)

Model Number : 6863  
Serial Number : N/A

## 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 2405-2480 MHz. We select 2405MHz, 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. 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 bilog 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 interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode and 300Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

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.**

|               |                            |                |         |
|---------------|----------------------------|----------------|---------|
| Date of Test: | Oct 28, 2012               | Temperature:   | 25°C    |
| EUT:          | Table Tracker              | Humidity:      | 50%     |
| Model No.:    | 6863                       | Power Supply:  | DC 3.7V |
| Test Mode:    | Zigbee Channel Low 2405MHz | Test Engineer: | Star    |

### For Below 30MHz

| Frequency<br>(MHz) | Reading<br>(dBμV/m) | Factor(dB)<br>Corr. | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Polarization |
|--------------------|---------------------|---------------------|--------------------|-------------------|----------------|--------------|
|                    | QP                  |                     | QP                 | QP                | QP             |              |
| -                  | -                   | -                   | -                  | -                 | -              | X            |
| -                  | -                   | -                   | -                  | -                 | -              | Y            |
| -                  | -                   | -                   | -                  | -                 | -              | Z            |

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency<br>(MHz) | Reading<br>(dBμV/m) | Factor<br>Corr.<br>(dB) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Polarization |
|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------------|
|                    | QP                  |                         | QP                 | QP                | QP             |              |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency<br>(MHz) | Reading(dBμV/m) |      | Factor<br>Corr. (dB) | Result(dBμV/m) |      | Limit(dBμV/m) |      | Margin(dBμV/m) |      | Polarization |
|--------------------|-----------------|------|----------------------|----------------|------|---------------|------|----------------|------|--------------|
|                    | AV              | PEAK |                      | AV             | PEAK | AV            | PEAK | AV             | PEAK |              |
| -                  | -               | -    | -                    | -              | -    | -             | -    | -              | -    | Vertical     |
| -                  | -               | -    | -                    | -              | -    | -             | -    | -              | -    | Horizontal   |

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

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

**3. The fundamental radiated emissions were reduced by 2.4G Band Reject Filter in the attached plots**



|               |                               |                |         |
|---------------|-------------------------------|----------------|---------|
| Date of Test: | Oct 28, 2012                  | Temperature:   | 25°C    |
| EUT:          | Table Tracker                 | Humidity:      | 50%     |
| Model No.:    | 6863                          | Power Supply:  | DC 3.7V |
| Test Mode:    | Zigbee Channel Middle 2440MHz | Test Engineer: | Star    |

**For Below 30MHz**

| Frequency<br>(MHz) | Reading<br>(dBμV/m) | Factor(dB)<br>Corr. | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Polarization |
|--------------------|---------------------|---------------------|--------------------|-------------------|----------------|--------------|
|                    | QP                  |                     | QP                 | QP                | QP             |              |
| -                  | -                   | -                   | -                  | -                 | -              | X            |
| -                  | -                   | -                   | -                  | -                 | -              | Y            |
| -                  | -                   | -                   | -                  | -                 | -              | Z            |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency<br>(MHz) | Reading<br>(dBμV/m) | Factor<br>Corr.<br>(dB) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Polarization |
|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------------|
|                    | QP                  |                         | QP                 | QP                | QP             |              |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency<br>(MHz) | Reading(dBμV/m) |      | Factor<br>Corr. (dB) | Result(dBμV/m) |      | Limit(dBμV/m) |      | Margin(dBμV/m) |      | Polarization |
|--------------------|-----------------|------|----------------------|----------------|------|---------------|------|----------------|------|--------------|
|                    | AV              | PEAK |                      | AV             | PEAK | AV            | PEAK | AV             | PEAK |              |
| -                  | -               | -    | -                    | -              | -    | -             | -    | -              | -    | Vertical     |
| -                  | -               | -    | -                    | -              | -    | -             | -    | -              | -    | Horizontal   |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.****2. \*: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by 2.4G Band Reject Filter in the attached plots**

|               |                             |                |         |
|---------------|-----------------------------|----------------|---------|
| Date of Test: | Oct 28, 2012                | Temperature:   | 25°C    |
| EUT:          | Table Tracker               | Humidity:      | 50%     |
| Model No.:    | 6863                        | Power Supply:  | DC 3.7V |
| Test Mode:    | Zigbee Channel High 2480MHz | Test Engineer: | Star    |

**For Below 30MHz**

| Frequency<br>(MHz) | Reading<br>(dBμV/m) | Factor(dB)<br>Corr. | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Polarization |
|--------------------|---------------------|---------------------|--------------------|-------------------|----------------|--------------|
|                    | QP                  |                     | QP                 | QP                | QP             |              |
| -                  | -                   | -                   | -                  | -                 | -              | X            |
| -                  | -                   | -                   | -                  | -                 | -              | Y            |
| -                  | -                   | -                   | -                  | -                 | -              | Z            |

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency<br>(MHz) | Reading<br>(dBμV/m) | Factor<br>Corr.<br>(dB) | Result<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Polarization |
|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------------|
|                    | QP                  |                         | QP                 | QP                | QP             |              |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Vertical     |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |
| ---                | ---                 | ---                     | ---                | ---               | ---            | Horizontal   |

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

| Frequency<br>(MHz) | Reading(dBμV/m) |      | Factor<br>Corr. (dB) | Result(dBμV/m) |      | Limit(dBμV/m) |      | Margin(dBμV/m) |      | Polarization |
|--------------------|-----------------|------|----------------------|----------------|------|---------------|------|----------------|------|--------------|
|                    | AV              | PEAK |                      | AV             | PEAK | AV            | PEAK | AV             | PEAK |              |
| -                  | -               | -    | -                    | -              | -    | -             | -    | -              | -    | Vertical     |
| -                  | -               | -    | -                    | -              | -    | -             | -    | -              | -    | Horizontal   |

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.****2. \*: Denotes restricted band of operation.****3. The fundamental radiated emissions were reduced by 2.4G Band Reject Filter in the attached plots**



# **ACCURATE TECHNOLOGY CO., LTD.**

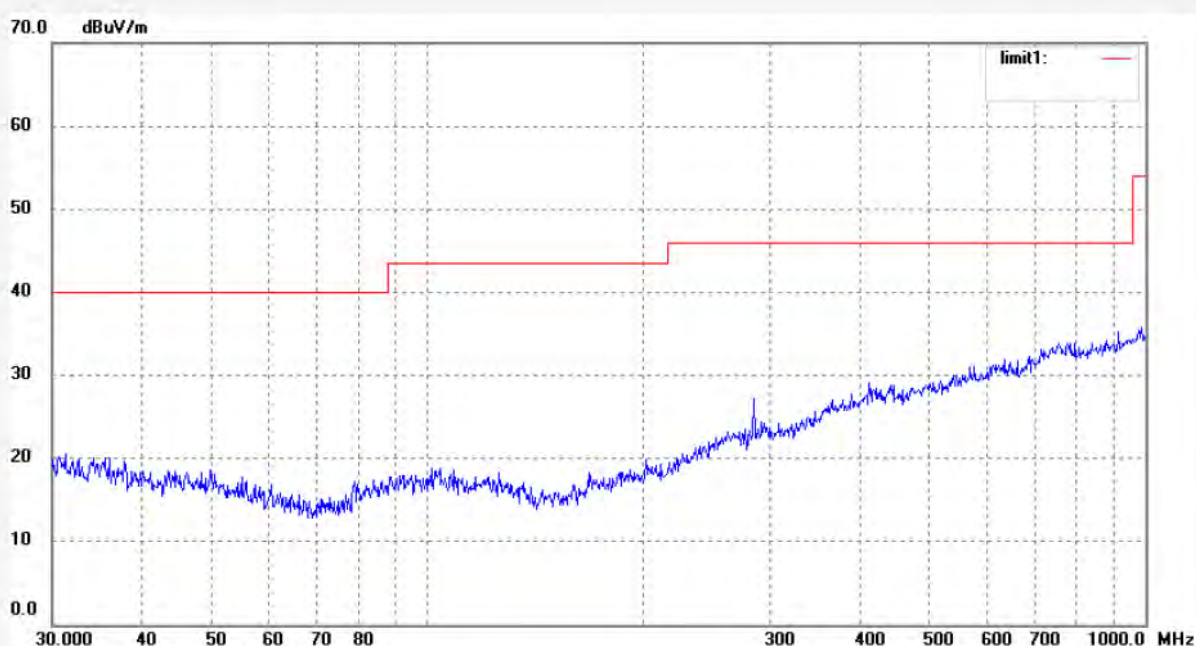
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR #2984  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Table Tracker  
Mode: TX Channel 1  
Model: 6863  
Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal  
Power Source: DC 3.7V  
Date: 12/10/28/  
Time: 2/10/19  
Engineer Signature:  
Distance: 3m

Note: Report No.: ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2985

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 1

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical

Power Source: DC 3.7V

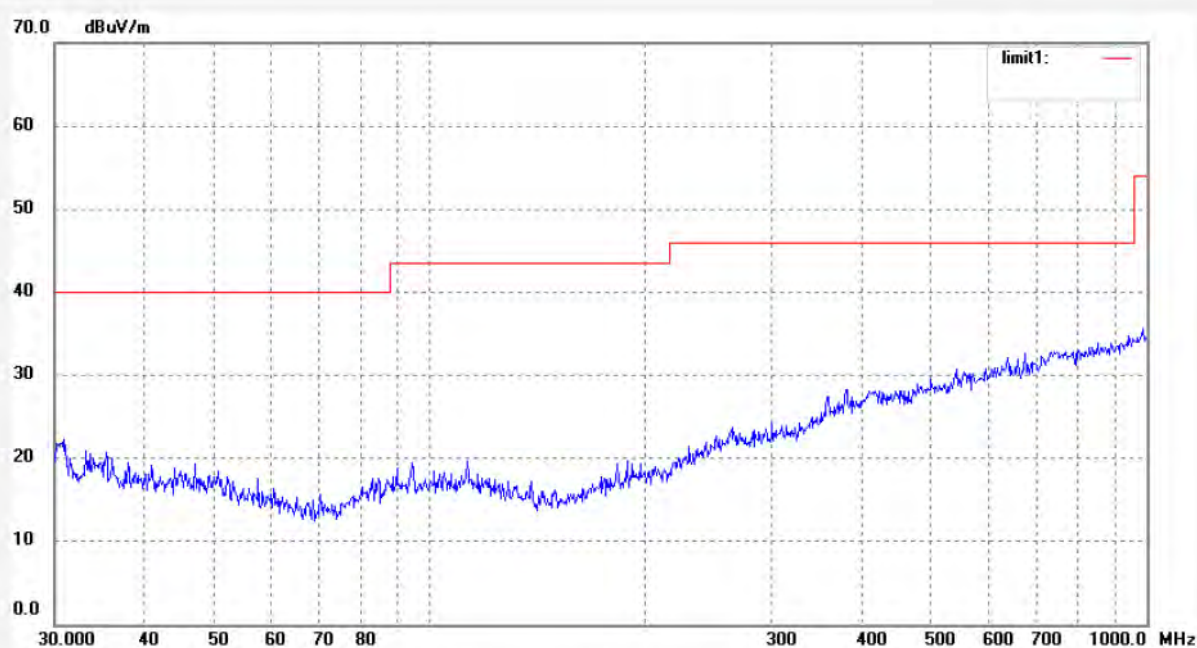
Date: 12/10/28/

Time: 2/14/51

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

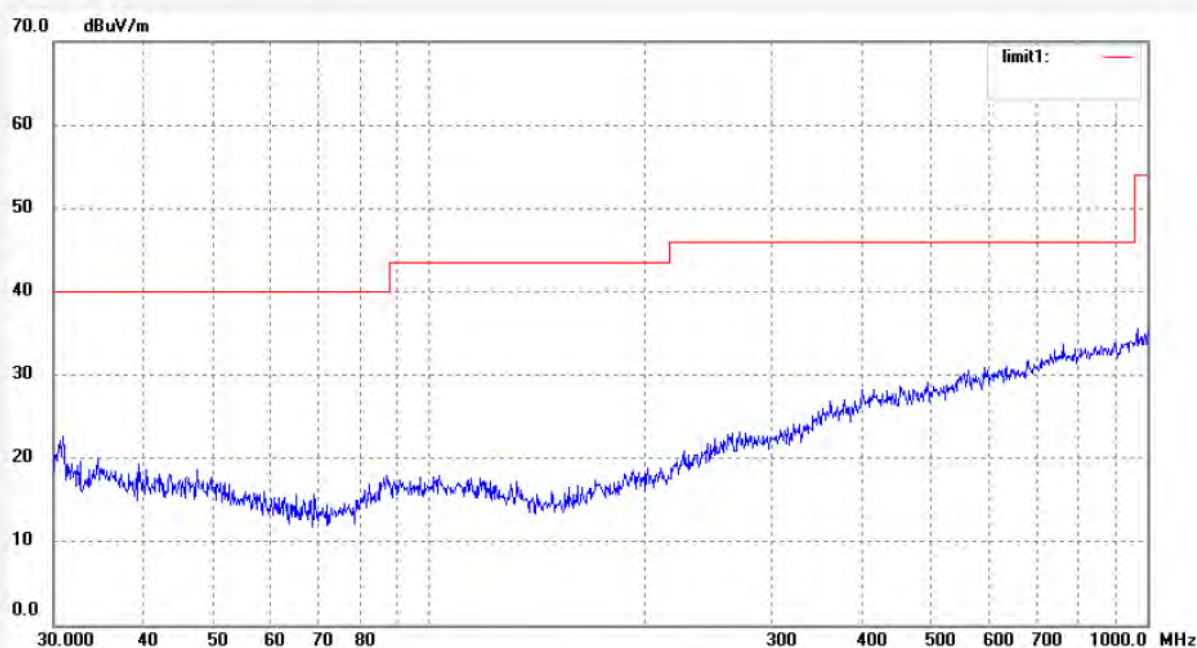
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR #2986  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Table Tracker  
Mode: TX Channel 8  
Model: 6863  
Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical  
Power Source: DC 3.7V  
Date: 12/10/28/  
Time: 2/18/06  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2987

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 8

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

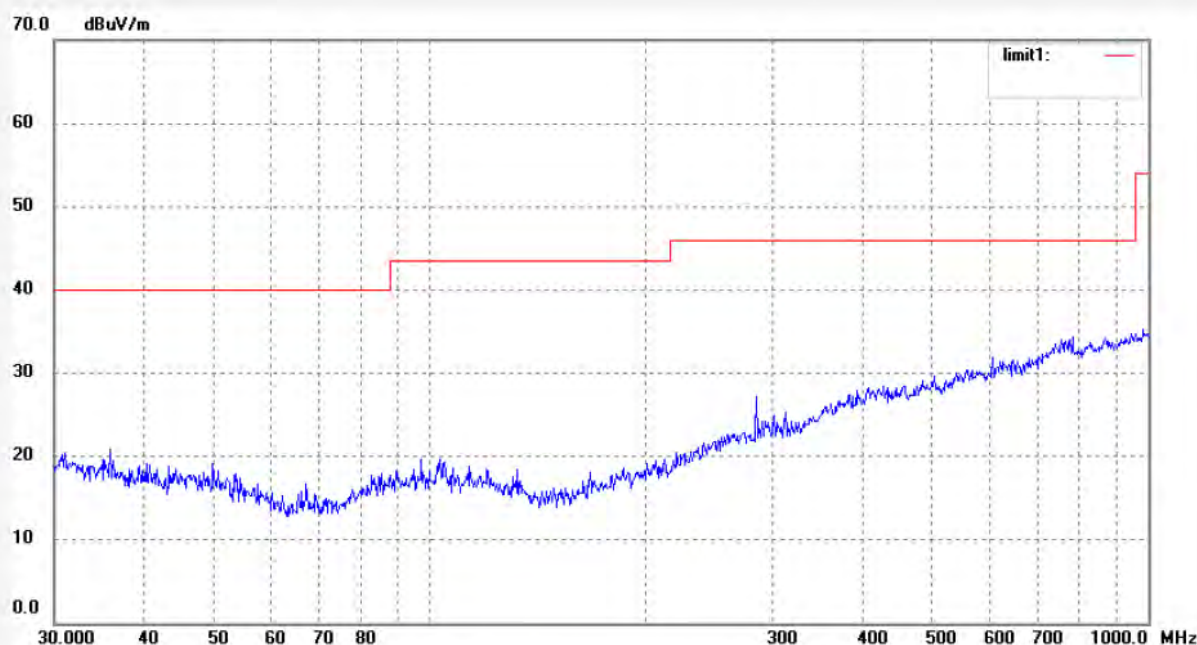
Date: 12/10/28/

Time: 2/21/41

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR #2988

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 16

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

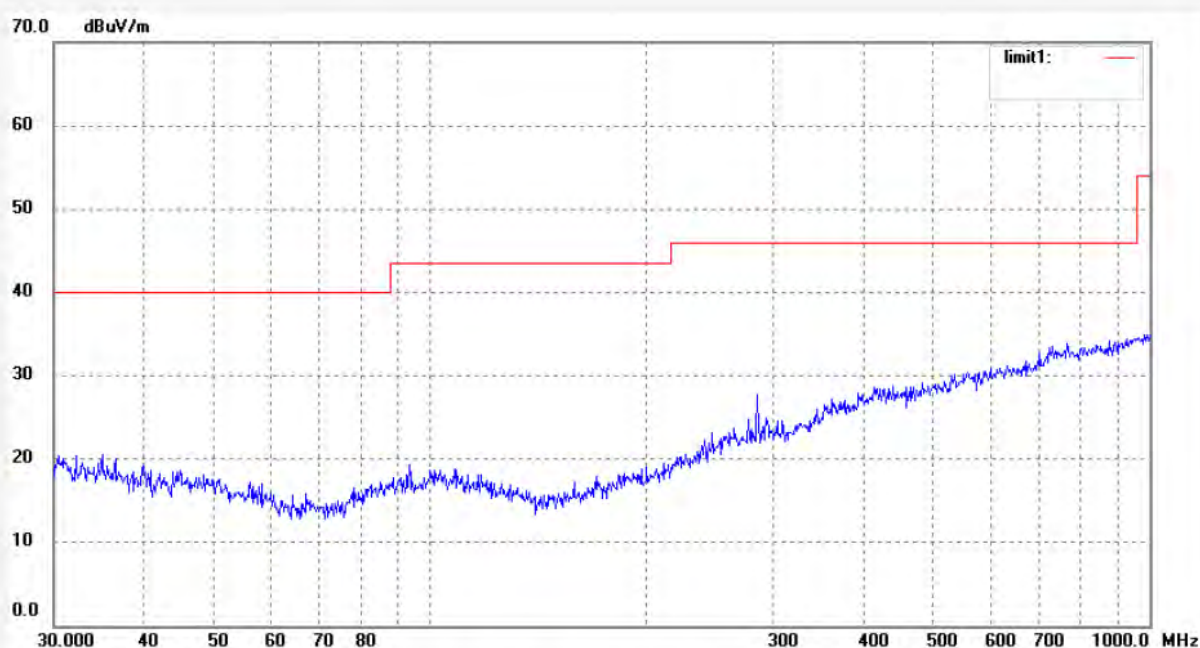
Date: 12/10/28/

Time: 2/23/17

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



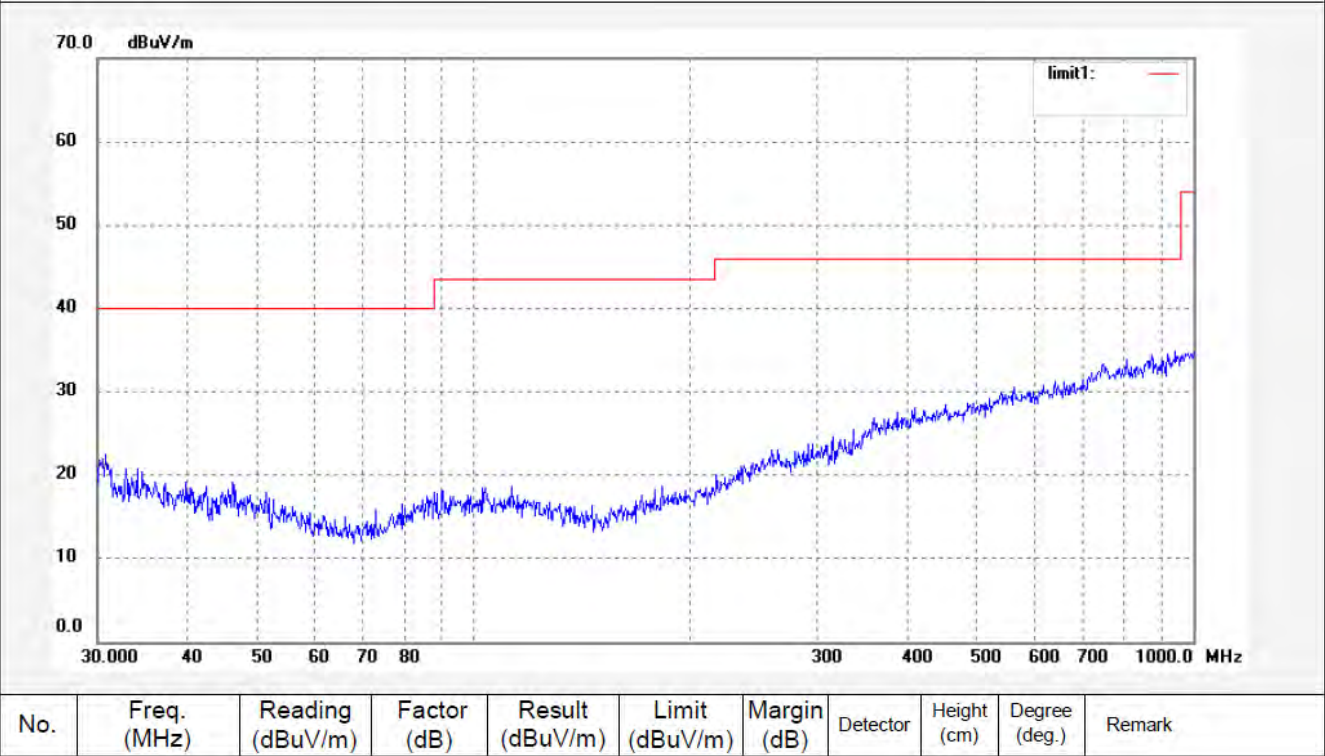
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

|                                     |                        |
|-------------------------------------|------------------------|
| Job No.: STAR #2989                 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated   | Power Source: DC 3.7V  |
| Test item: Radiation Test           | Date: 12/10/28/        |
| Temp.( C)/Hum.(%) 23 C / 49 %       | Time: 2/25/36          |
| EUT: Table Tracker                  | Engineer Signature:    |
| Mode: TX Channel 16                 | Distance: 3m           |
| Model: 6863                         |                        |
| Manufacturer: SEVECO GLOBAL LIMITED |                        |

|                              |
|------------------------------|
| Note: Report No.:ATE20121266 |
|------------------------------|





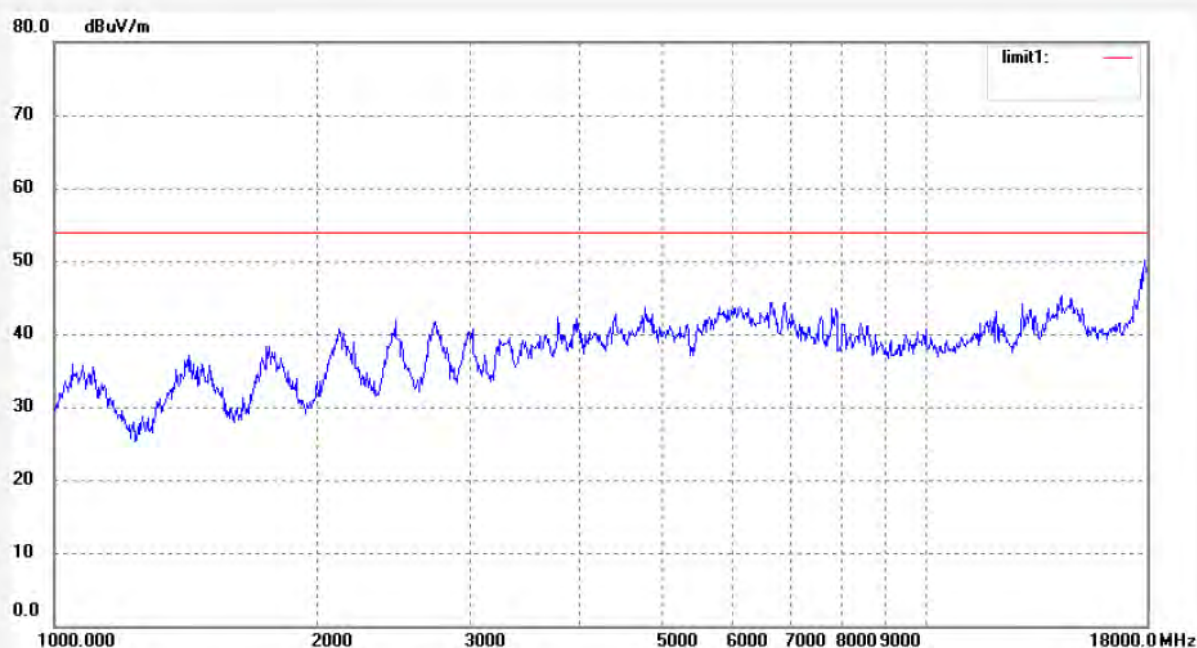
# **ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

|                                     |                          |
|-------------------------------------|--------------------------|
| Job No.: STAR #2990                 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated   | Power Source: DC 3.7V    |
| Test item: Radiation Test           | Date: 12/10/28/          |
| Temp.( C)/Hum.(%) 23 C / 49 %       | Time: 2/28/15            |
| EUT: Table Tracker                  | Engineer Signature:      |
| Mode: TX Channel 1                  | Distance: 3m             |
| Model: 6863                         |                          |
| Manufacturer: SEVECO GLOBAL LIMITED |                          |

Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2991

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 1

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical

Power Source: DC 3.7V

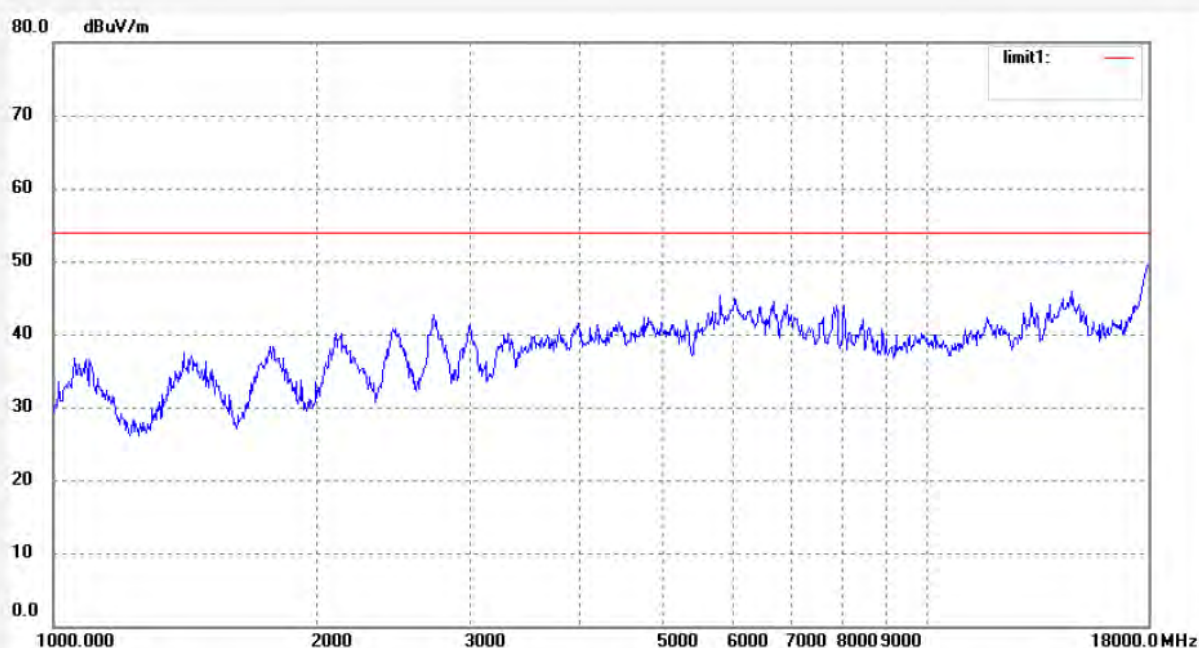
Date: 12/10/28/

Time: 2/31/49

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|


**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2992

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 8

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical

Power Source: DC 3.7V

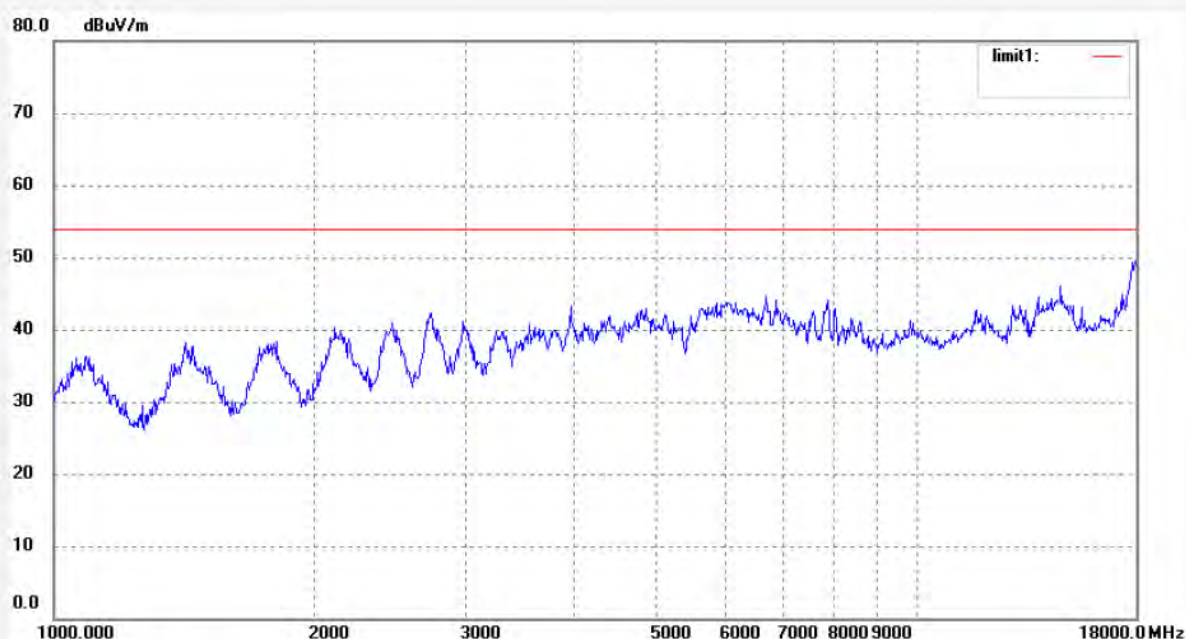
Date: 12/10/28/

Time: 2/35/29

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



**ACCURATE TECHNOLOGY CO., LTD.**

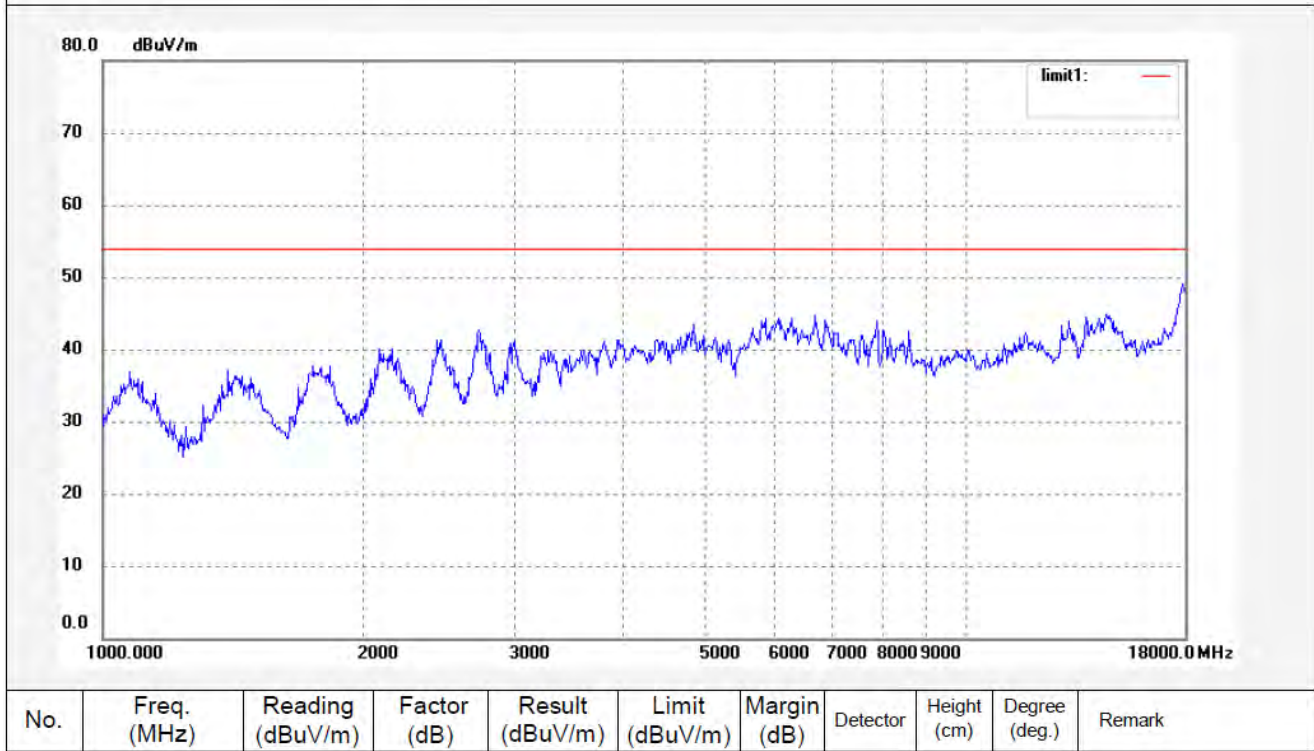
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR #2993  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Table Tracker  
Mode: TX Channel 8  
Model: 6863  
Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal  
Power Source: DC 3.7V  
Date: 12/10/28/  
Time: 2/39/04  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20121266





# **ACCURATE TECHNOLOGY CO., LTD.**

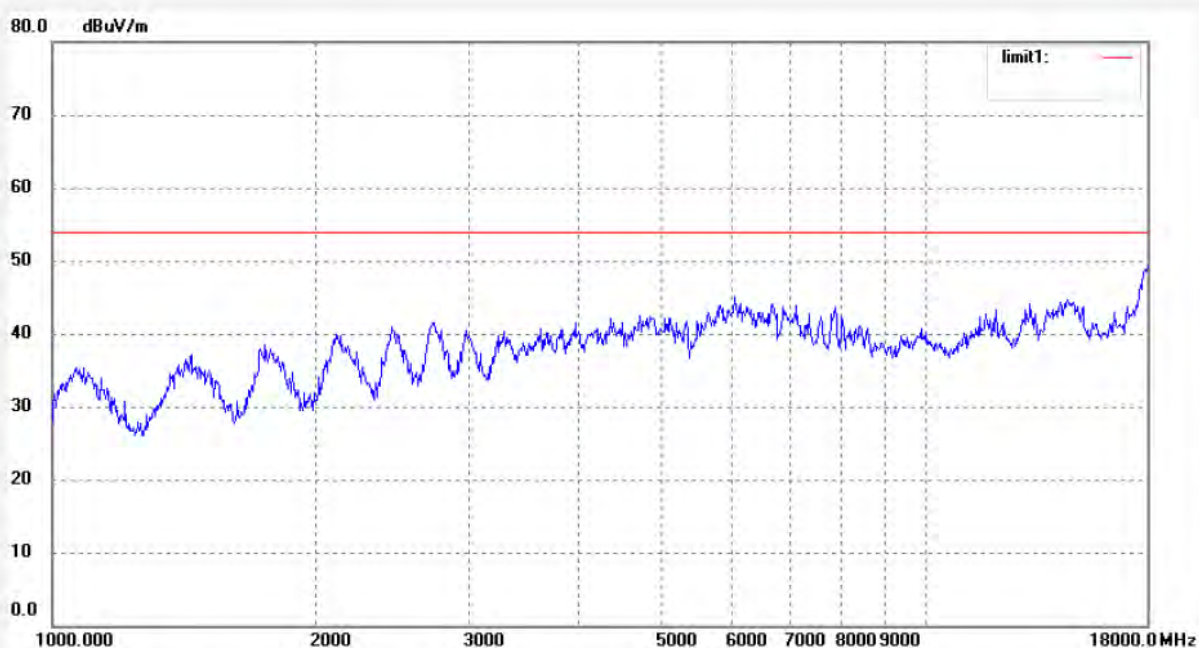
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR #2994  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Table Tracker  
Mode: TX Channel 16  
Model: 6863  
Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal  
Power Source: DC 3.7V  
Date: 12/10/28/  
Time: 2/42/41  
Engineer Signature:  
Distance: 3m

Note: Report No.: ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2995

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 16

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical

Power Source: DC 3.7V

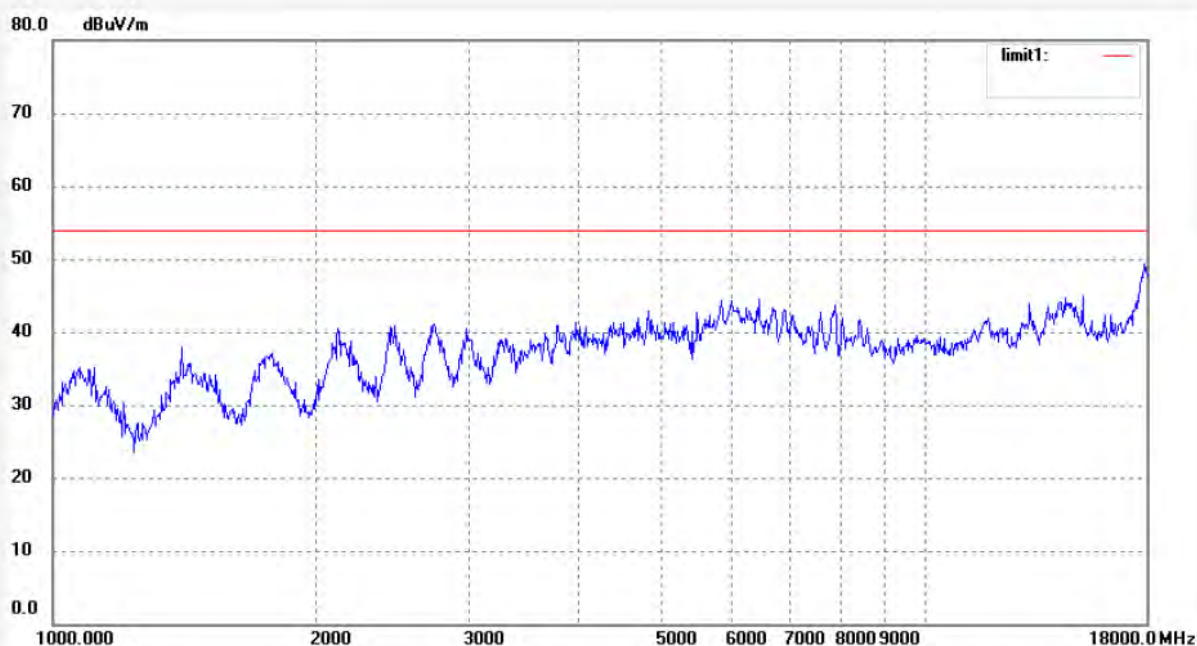
Date: 12/10/28/

Time: 2/45/01

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|


**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #2996

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 1

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal

Power Source: DC 3.7V

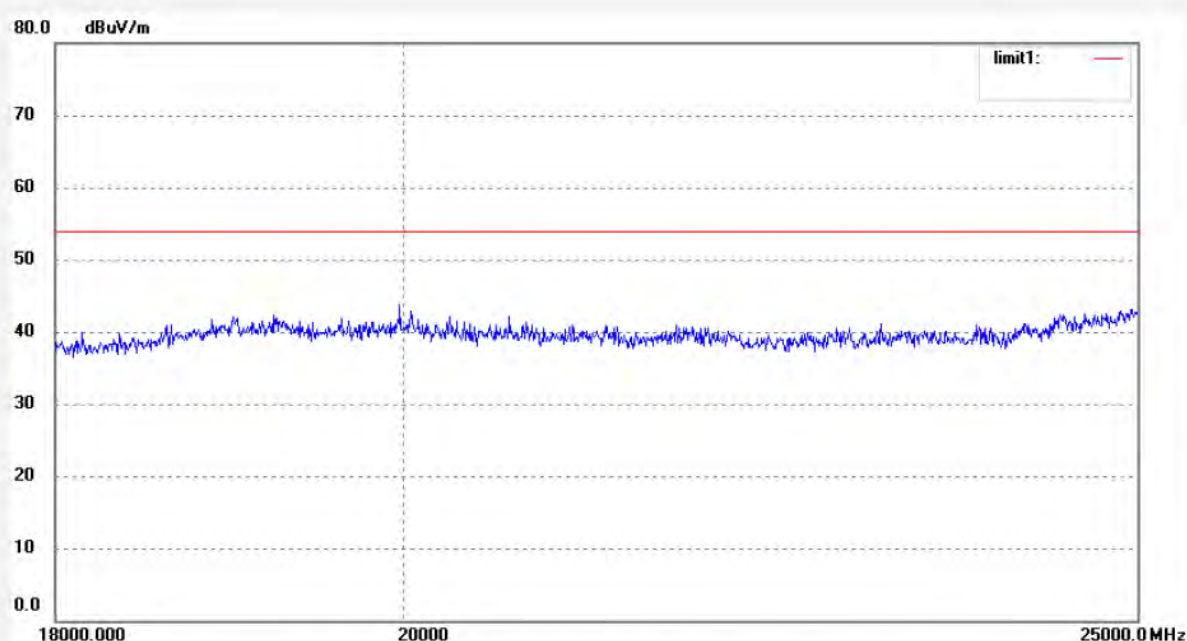
Date: 12/10/28/

Time: 2/48/41

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



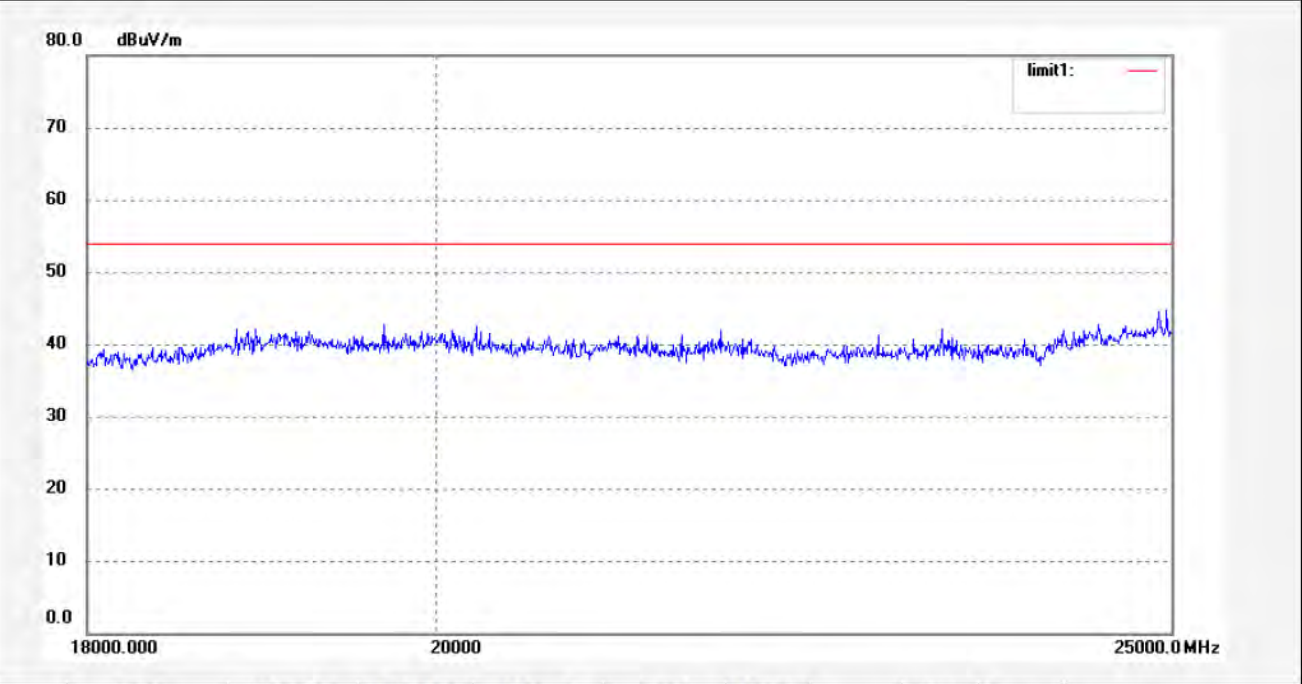
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

|                                     |                        |
|-------------------------------------|------------------------|
| Job No.: STAR #2997                 | Polarization: Vertical |
| Standard: FCC Class B 3M Radiated   | Power Source: DC 3.7V  |
| Test item: Radiation Test           | Date: 12/10/28/        |
| Temp.( C)/Hum.(%) 23 C / 49 %       | Time: 2/52/53          |
| EUT: Table Tracker                  | Engineer Signature:    |
| Mode: TX Channel 1                  | Distance: 3m           |
| Model: 6863                         |                        |
| Manufacturer: SEVECO GLOBAL LIMITED |                        |

Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

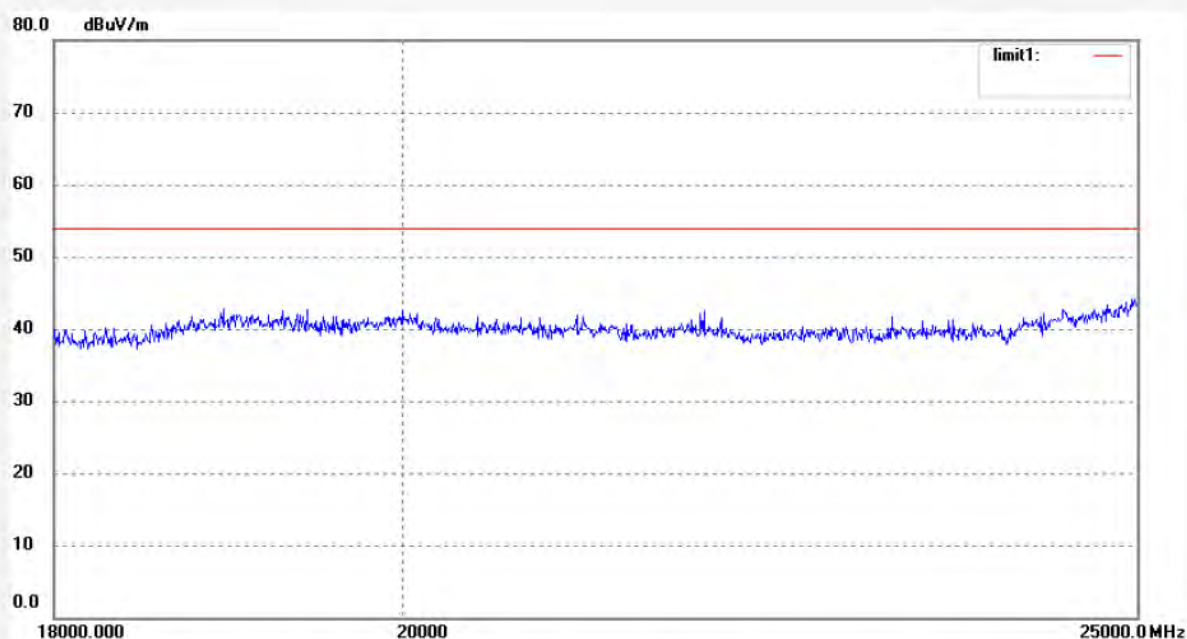
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR #2998  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Table Tracker  
Mode: TX Channel 8  
Model: 6863  
Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical  
Power Source: DC 3.7V  
Date: 12/10/28/  
Time: 2/55/18  
Engineer Signature:  
Distance: 3m

Note: Report No.: ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

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

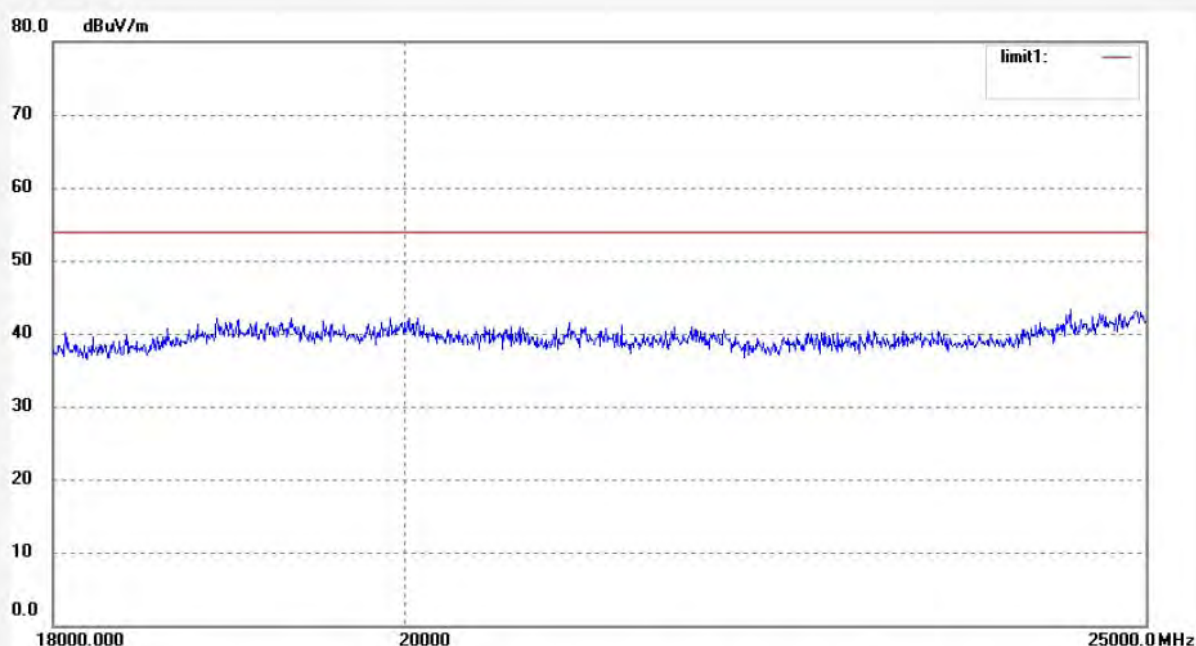
Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

|                                     |                          |
|-------------------------------------|--------------------------|
| Job No.: STAR #2999                 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated   | Power Source: DC 3.7V    |
| Test item: Radiation Test           | Date: 12/10/28/          |
| Temp.( C)/Hum.(%) 23 C / 49 %       | Time: 2/59/40            |
| EUT: Table Tracker                  | Engineer Signature:      |
| Mode: TX Channel 8                  | Distance: 3m             |
| Model: 6863                         |                          |
| Manufacturer: SEVECO GLOBAL LIMITED |                          |

Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# ACCURATE TECHNOLOGY CO., LTD.

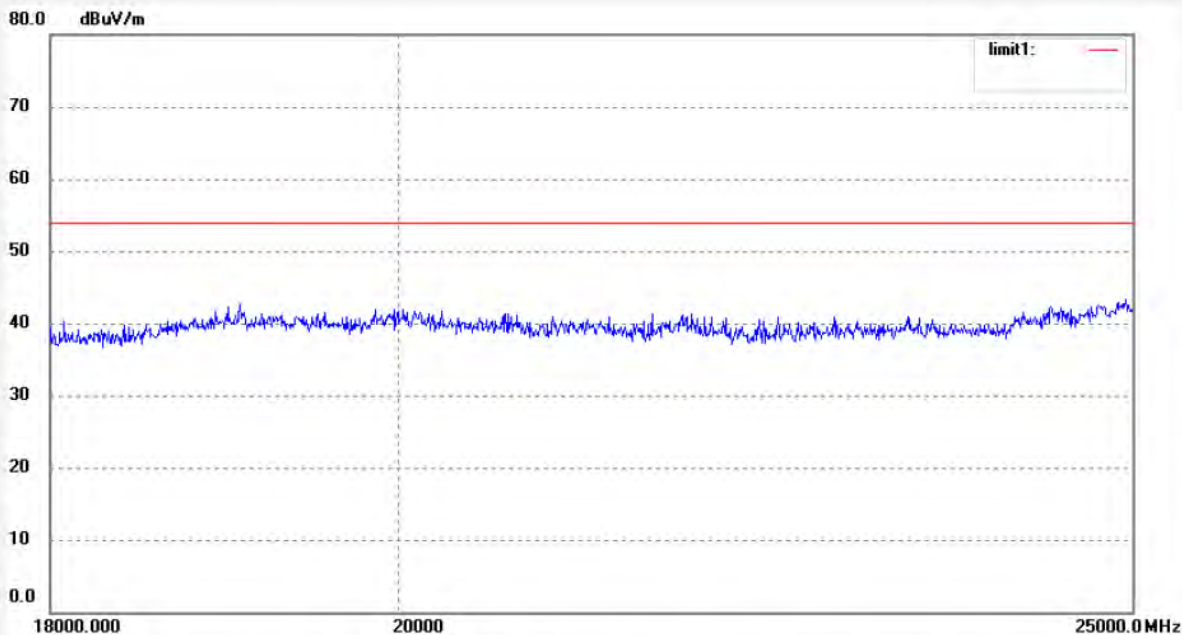
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: STAR #3000  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Table Tracker  
Mode: TX Channel 16  
Model: 6863  
Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Horizontal  
Power Source: DC 3.7V  
Date: 12/10/28/  
Time: 3/03/52  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|



# **ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: STAR #3001

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 49 %

EUT: Table Tracker

Mode: TX Channel 16

Model: 6863

Manufacturer: SEVECO GLOBAL LIMITED

Polarization: Vertical

Power Source: DC 3.7V

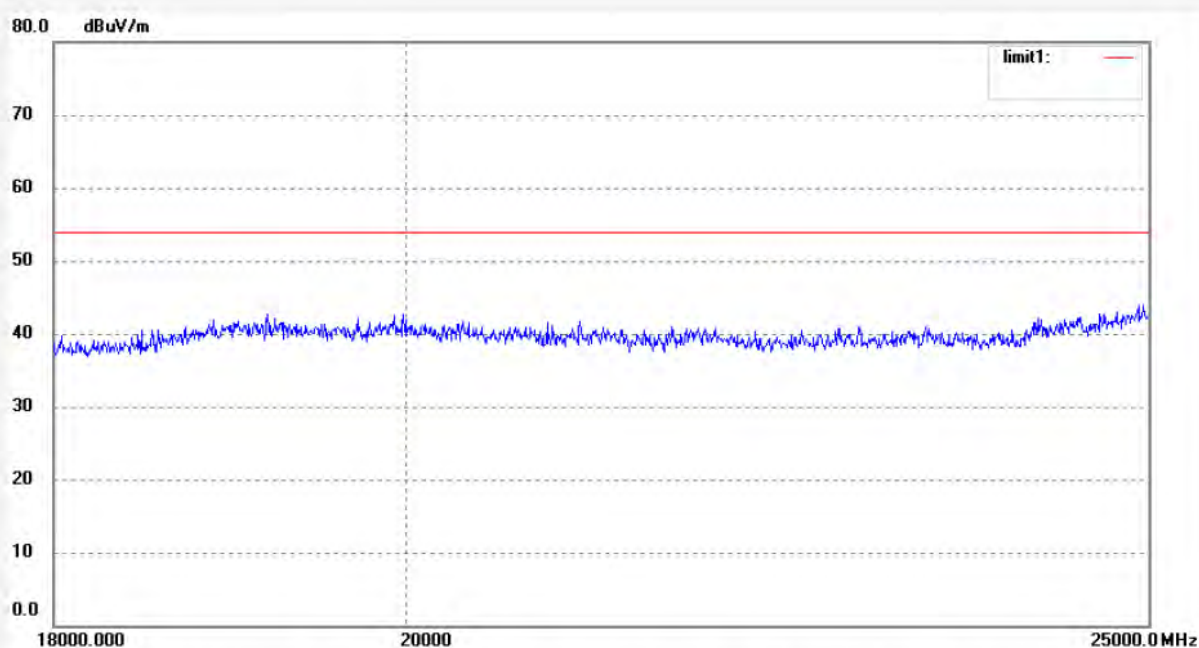
Date: 12/10/28/

Time: 3/06/07

Engineer Signature:

Distance: 3m

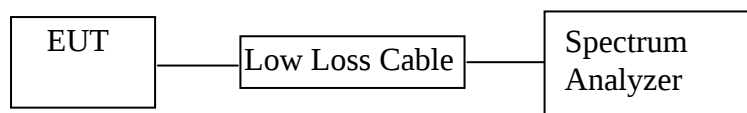
Note: Report No.:ATE20121266



| 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 |
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|
|-----|----------------|---------------------|----------------|--------------------|-------------------|----------------|----------|----------------|------------------|--------|

## 10.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

### 10.1.Block Diagram of Test Setup



(EUT: Table Tracker)

### 10.2.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).

### 10.3.EUT Configuration on Measurement

The following 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.

#### 10.3.1. Table Tracker (EUT)

Model Number : 6863  
Serial Number : N/A

## 10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2405-2480 MHz. We select 2405MHz, 2440MHz, and 2480MHz TX frequency to transmit.

## 10.5.Test Procedure

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

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

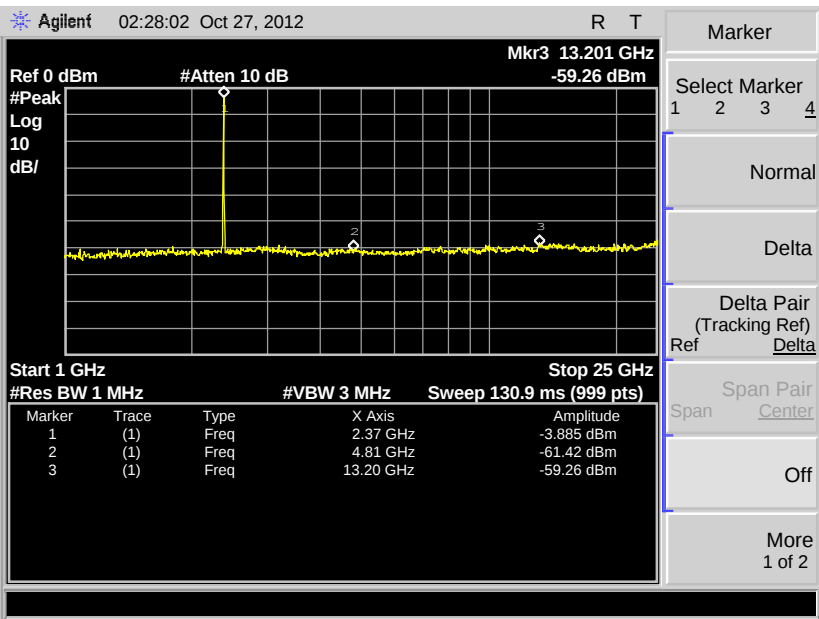
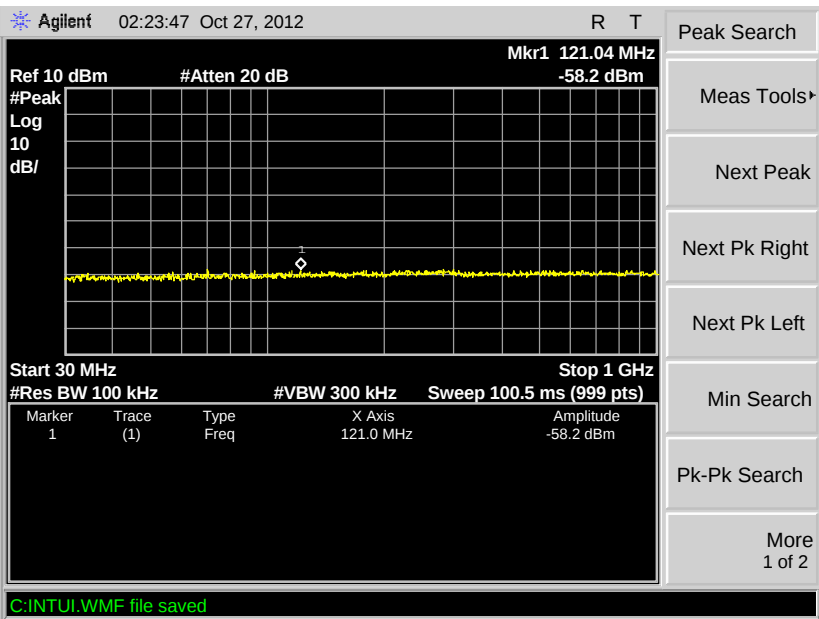
10.5.3.The Conducted Spurious Emission was measured and recorded.

## 10.6.Test Result

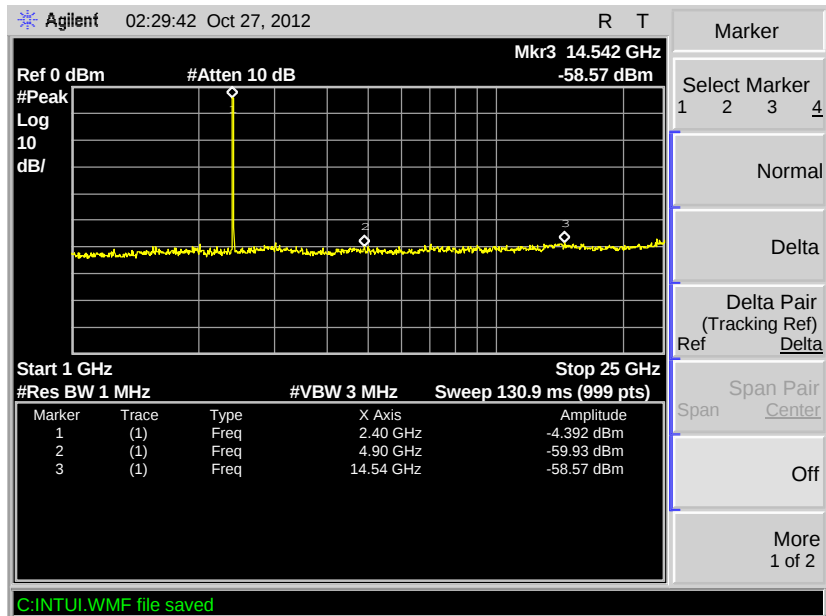
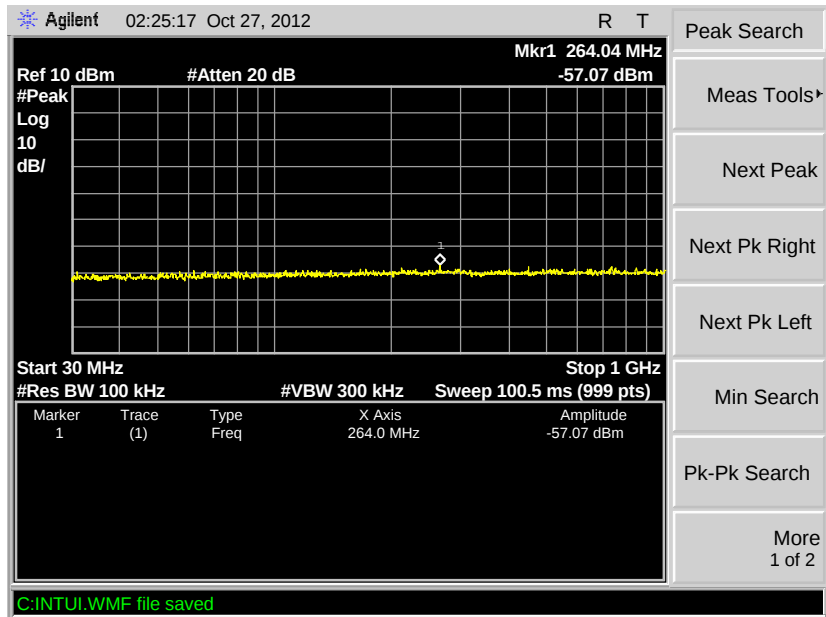
**Pass.**

The spectrum analyzer plots are attached as below.

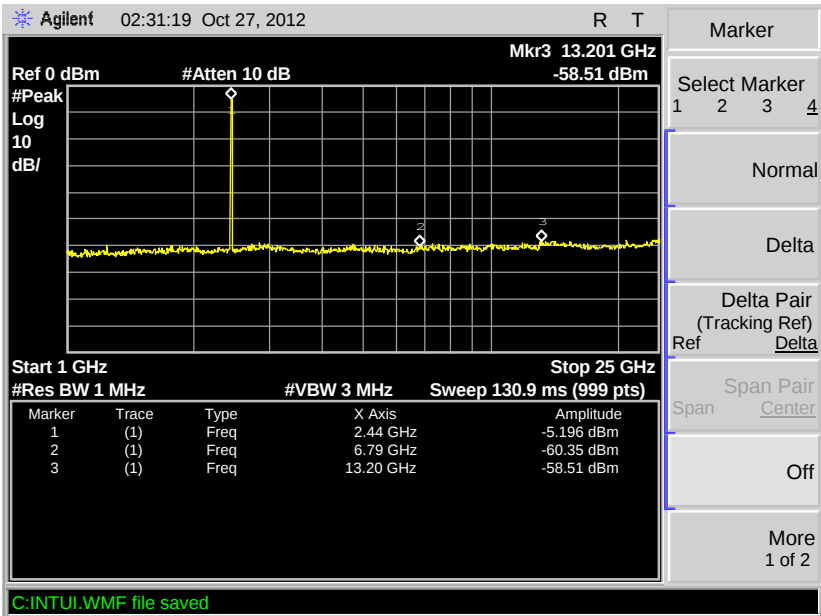
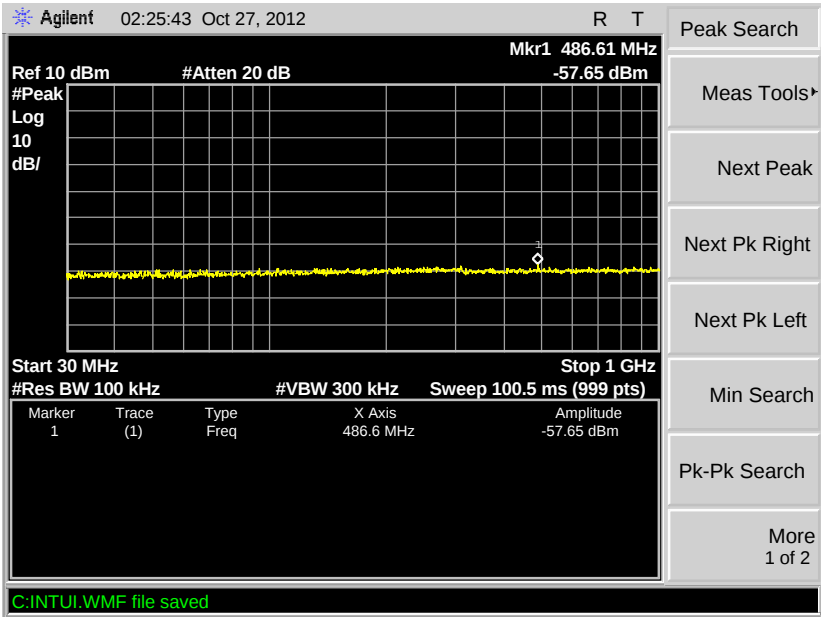
Zigbee Channel Low 2405MHz



Zigbee Channel Middle 2440MHz



Zigbee Channel High 2480MHz



## **11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART**

### **15 SECTION 15.207(A)**

N/A

## 12.ANTENNA REQUIREMENT

### 12.1.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.

### 12.2.Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.

