



## Test Report

Date : 2017-06-22  
No. : HM170722

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**Applicant:** Heng Yu Electronic Manufacturing Co., Ltd.  
Room 3-5, 15/F., Nan Fung Commercial Center 19 Lam Lok Street,  
Kowloon Bay

**Manufacturer:** Zhuhai Heng Yu New Technology Company Limited  
Heng Ke Campus, Jin Hai Avenue, San Zao, Zhuhai, Guangdong  
P.R.C., 519040

**Description of Sample(s):** Product: Wireless Keyboard  
Brand Name: Heng Yu  
Model Number: CK103A-RF  
FCC ID: XENCK103ARF01

**Date Sample(s) Received:** 2017-04-13

**Date Tested:** 2017-04-25 to 2017-05-02

**Investigation Requested:** Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2016 and ANSI C63.10:2013 for FCC Certification.

**Conclusion(s):** The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remark(s):** This Laboratory Report supersedes our previous Test Report No. HM170722 issued on 2017-05-18 which is hereby deemed null and void.

  
Dr. LEE Kam Chuen  
Authorized Signatory  
ElectroMagnetic Compatibility Department  
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Limited

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### **1.0 General Details**

#### **1.1 Equipment Under Test [EUT] Description of Sample(s)**

|               |                                                                                                                                |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|
| Product:      | Wireless Keyboard                                                                                                              |
| Manufacturer: | Zhuhai Heng Yu New Technology Company Limited<br>Heng Ke Campus, Jin Hal Avenue, San Zao, Zhu Hai, Guang Dong P.R.C.<br>519040 |
| Brand Name:   | Heng Yu                                                                                                                        |
| Model Number: | CK103A-RF                                                                                                                      |
| Rating:       | 4.5Vd.c. ("AAA"*3)                                                                                                             |

#### **1.2 Description of EUT Operation**

The Equipment Under Test (EUT) is a 2.4GHz Wireless Keyboard. The EUT type of modulation is GFSK, the channel frequency range 2404-2480MHz.

#### **1.3 Date of Order**

2017-04-13

#### **1.4 Submitted Sample(s):**

1 Sample

#### **1.5 Test Duration**

2017-04-25 to 2017-04-29

#### **1.6 Country of Origin**

China

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### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform Electromagnetic Interference measurements in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2016 Regulations and ANSI C63.10:2013 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

| EMISSION<br>Results Summary                               |                  |                  |                     |                                     |                          |
|-----------------------------------------------------------|------------------|------------------|---------------------|-------------------------------------|--------------------------|
| Test Condition                                            | Test Requirement | Test Method      | Class /<br>Severity | Test Result                         |                          |
|                                                           |                  |                  |                     | Pass                                | Fail                     |
| Field Strength of<br>Fundamental &<br>Harmonics Emissions | FCC 47CFR 15.249 | ANSI C63.10:2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emissions                                        | FCC 47CFR 15.209 | ANSI C63.10:2013 | N/A                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Note: N/A - Not Applicable

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### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Field Strength of Fundamental & Harmonics Emissions**

|                    |                          |
|--------------------|--------------------------|
| Test Requirement:  | FCC 47CFR 15.249         |
| Test Method:       | ANSI C63.10:2013         |
| Test Date:         | 2017-04-25 to 2017-04-29 |
| Mode of Operation: | Tx Mode                  |

#### **Test Method:**

For measurement above 1GHz, the sample was placed 0.8m above the ground plane on a standard radiated emission test site. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. In the frequency range of 9kHz to 30MHz, The center of the loop antenna shall be 1 meter above the ground and rotated loop axis for maximum reading. The emissions worst-case are shown in Test Results of the following pages.

Remark: 3 orthogonal axis apply to hand-held device only.

\*: Semi-anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

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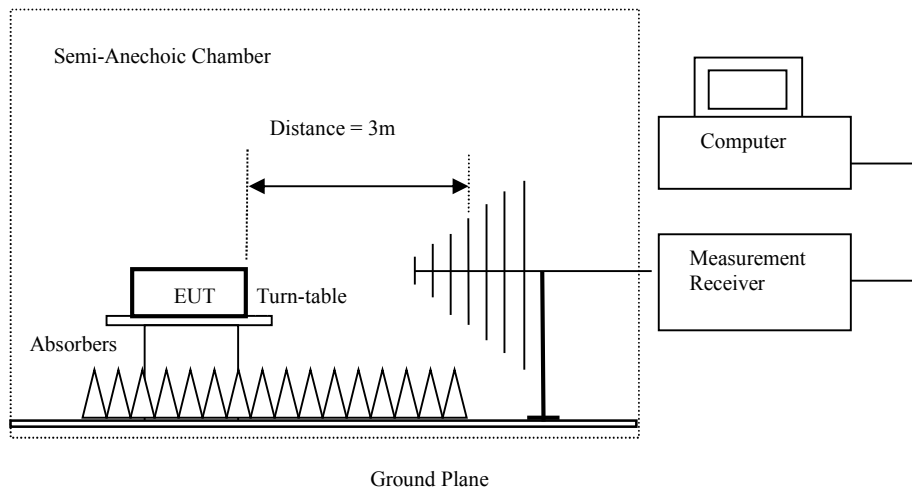
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### **Spectrum Analyzer Setting:**

|                        |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| 9KHz – 30MHz (Pk & Av) | RBW: 10kHz<br>VBW: 30kHz<br>Sweep: Auto<br>Span: Fully capture the emissions being measured<br>Trace: Max. hold   |
| 30MHz – 1GHz (QP)      | RBW: 120kHz<br>VBW: 120kHz<br>Sweep: Auto<br>Span: Fully capture the emissions being measured<br>Trace: Max. hold |
| Above 1GHz (Pk & Av)   | RBW: 1MHz<br>VBW: 3MHz<br>Sweep: Auto<br>Span: Fully capture the emissions being measured<br>Trace: Max. hold     |

### **Test Setup:**



Absorbers placed on top of the ground plane are for measurements above 1000MHz only.



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### Limits for Field Strength of Fundamental & Harmonics Emissions [FCC 47CFR 15.249]:

| Fundamental frequency<br>[MHz] | Field strength of fundamental<br>(millivolts/meter) | Field strength of harmonics<br>(microvolts/meter) |
|--------------------------------|-----------------------------------------------------|---------------------------------------------------|
| 902-928 MHz                    | 50                                                  | 500                                               |
| 2400-2483.5 MHz                | 50                                                  | 500                                               |
| 5725-5875 MHz                  | 50                                                  | 500                                               |
| 24.0-24.25 GHz                 | 250                                                 | 2500                                              |

### Result of TX mode, (Lowest Channel): Pass

| Field Strength of Fundamental and Harmonics Emissions |                                                                |                                |                             |                           |                   |                     |
|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Peak Value                                            |                                                                |                                |                             |                           |                   |                     |
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV/m                                | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 2404.0                                                | 53.6                                                           | 27.5                           | 81.1                        | 11,350.1                  | 500,000           | Vertical            |
| * 4808.0                                              | 19.0                                                           | 31.7                           | 50.7                        | 342.8                     | 5,000             | Vertical            |
| * 7212.2                                              | 12.8                                                           | 38.6                           | 51.4                        | 371.5                     | 5,000             | Vertical            |
| * 9616.0                                              | Emissions detected are more than<br>20 dB below the FCC Limits |                                |                             |                           | 5,000             | Vertical            |
| 12020.0                                               |                                                                |                                |                             |                           | 5,000             | Vertical            |
| 14424.0                                               |                                                                |                                |                             |                           | 5,000             | Vertical            |
| 16828.0                                               |                                                                |                                |                             |                           | 5,000             | Vertical            |
| 19232.0                                               |                                                                |                                |                             |                           | 5,000             | Vertical            |
| 21636.0                                               |                                                                |                                |                             |                           | 5,000             | Vertical            |
| 24040.0                                               |                                                                |                                |                             |                           | 5,000             | Vertical            |

| Field Strength of Fundamental and Harmonics Emissions |                                                                |                                |                             |                           |                   |                     |
|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Average Value                                         |                                                                |                                |                             |                           |                   |                     |
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV/m                                | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 2404.0                                                | 45.8                                                           | 27.5                           | 73.3                        | 4,623.8                   | 50,000            | Vertical            |
| 4808.0                                                | 10.5                                                           | 31.7                           | 42.2                        | 128.8                     | 500               | Vertical            |
| 7212.2                                                | 6.7                                                            | 38.6                           | 45.3                        | 184.1                     | 500               | Vertical            |
| * 9616.0                                              | Emissions detected are more than<br>20 dB below the FCC Limits |                                |                             |                           | 500               | Vertical            |
| 12020.0                                               |                                                                |                                |                             |                           | 500               | Vertical            |
| 14424.0                                               |                                                                |                                |                             |                           | 500               | Vertical            |
| 16828.0                                               |                                                                |                                |                             |                           | 500               | Vertical            |
| * 19232.0                                             |                                                                |                                |                             |                           | 500               | Vertical            |
| 21636.0                                               |                                                                |                                |                             |                           | 500               | Vertical            |
| 24040.0                                               |                                                                |                                |                             |                           | 500               | Vertical            |

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**Result of TX mode, (Middle Channel ): Pass**

| Field Strength of Fundamental and Harmonics Emissions |                                                                |                                |                             |                           |                   |                     |
|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Peak Value                                            |                                                                |                                |                             |                           |                   |                     |
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV/m                                | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 2442.0                                                | 52.7                                                           | 27.9                           | 80.6                        | 10,715.2                  | 500,000           | Horizontal          |
| 4884.1                                                | 19.1                                                           | 31.4                           | 50.5                        | 335.0                     | 5,000             | Horizontal          |
| 7326.3                                                | 10.3                                                           | 39.1                           | 49.4                        | 295.1                     | 5,000             | Horizontal          |
| * 9768.0                                              | Emissions detected are more than<br>20 dB below the FCC Limits |                                |                             |                           | 5,000             | Horizontal          |
| 12210.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| 14652.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| 17094.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| * 19536.0                                             |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| 21978.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| 24420.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |

| Field Strength of Fundamental and Harmonics Emissions |                                                                |                                |                             |                           |                   |                     |
|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Average Value                                         |                                                                |                                |                             |                           |                   |                     |
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV/m                                | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 2442.0                                                | 44.6                                                           | 27.9                           | 72.5                        | 4,217.0                   | 50,000            | Horizontal          |
| 4884.1                                                | 9.4                                                            | 31.4                           | 40.8                        | 109.6                     | 500               | Horizontal          |
| 7326.3                                                | 7.1                                                            | 39.1                           | 46.2                        | 204.2                     | 500               | Horizontal          |
| * 9768.0                                              | Emissions detected are more than<br>20 dB below the FCC Limits |                                |                             |                           | 500               | Horizontal          |
| 12210.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |
| 14652.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |
| 17094.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |
| * 19536.0                                             |                                                                |                                |                             |                           | 500               | Horizontal          |
| 21978.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |
| 24420.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |

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**Result of TX mode, (Highest Channel): Pass**

| Field Strength of Fundamental and Harmonics Emissions |                                                                |                                |                             |                           |                   |                     |
|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Peak Value                                            |                                                                |                                |                             |                           |                   |                     |
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV/m                                | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 2480.0                                                | 54.1                                                           | 28.1                           | 82.2                        | 12,882.5                  | 500,000           | Horizontal          |
| 4960.3                                                | 18.3                                                           | 31.8                           | 50.1                        | 319.9                     | 5,000             | Horizontal          |
| 7440.2                                                | 10.3                                                           | 39.3                           | 49.6                        | 302.0                     | 5,000             | Horizontal          |
| * 9920.0                                              | Emissions detected are more than<br>20 dB below the FCC Limits |                                |                             |                           | 5,000             | Horizontal          |
| 12400.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| 14880.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| 17360.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| * 19840.0                                             |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| 22320.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |
| 24800.0                                               |                                                                |                                |                             |                           | 5,000             | Horizontal          |

| Field Strength of Fundamental and Harmonics Emissions |                                                                |                                |                             |                           |                   |                     |
|-------------------------------------------------------|----------------------------------------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Average Value                                         |                                                                |                                |                             |                           |                   |                     |
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV/m                                | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 2480.0                                                | 43.2                                                           | 28.1                           | 71.3                        | 3,672.8                   | 50,000            | Horizontal          |
| 4960.3                                                | 9.2                                                            | 31.8                           | 41.0                        | 112.2                     | 500               | Horizontal          |
| 7440.2                                                | 6.3                                                            | 39.3                           | 45.6                        | 190.5                     | 500               | Horizontal          |
| * 9920.0                                              | Emissions detected are more than<br>20 dB below the FCC Limits |                                |                             |                           | 500               | Horizontal          |
| 12400.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |
| 14880.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |
| 17360.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |
| * 19840.0                                             |                                                                |                                |                             |                           | 500               | Horizontal          |
| 22320.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |
| 24800.0                                               |                                                                |                                |                             |                           | 500               | Horizontal          |

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Remarks:

No additional spurious emissions found between lowest internal used/generated frequency and 30 MHz

\*: Denotes restricted band of operation.

Measurements were made using a peak detector. Any emission less than 1000 MHz and falling within the restricted bands of FCC Rules Part 15 Section 15.205 and the limits of FCC Rules Part 15 Section 15.209 were applied.

|                                    |   |               |        |
|------------------------------------|---|---------------|--------|
| Calculated measurement uncertainty | : | 9kHz to 30MHz | 2.4dB  |
|                                    |   | 30MHz to 1GHz | 4.9dB  |
|                                    |   | 1GHz to 6GHz  | 4.02dB |
|                                    |   | 6GHz to 18GHz | 4.03dB |

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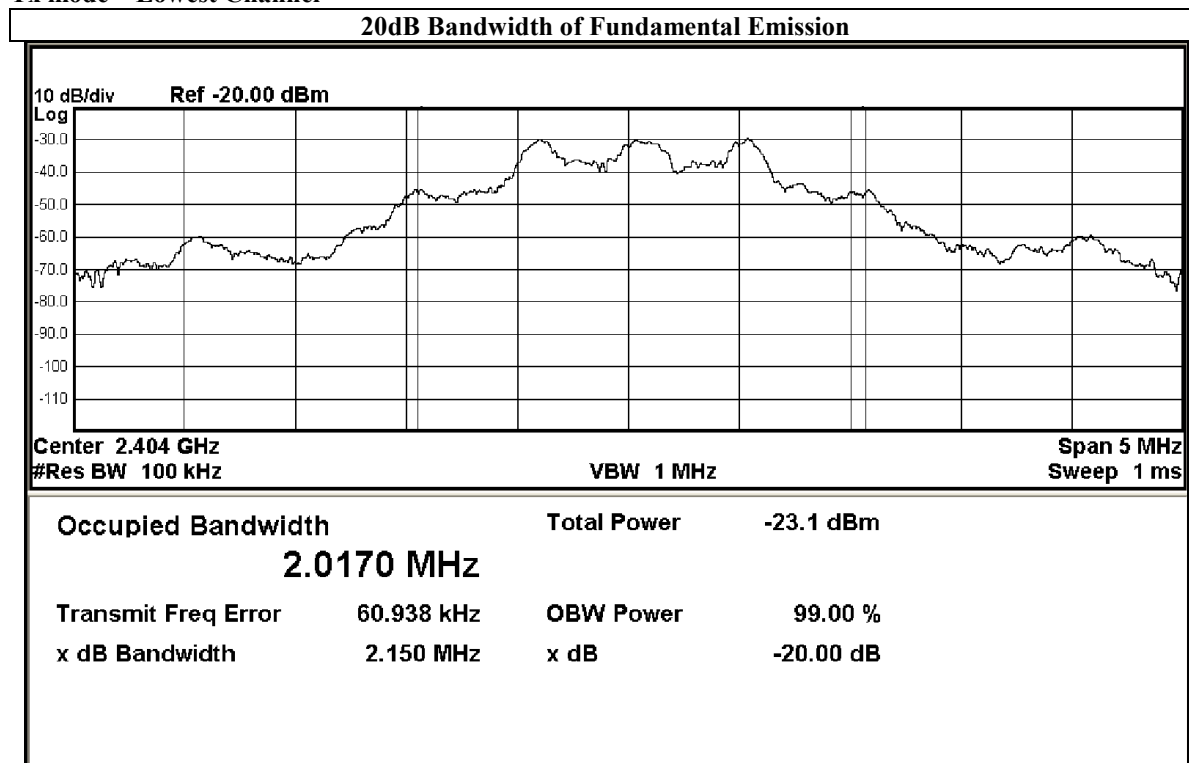
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### Limits for 20dB Bandwidth of Fundamental Emission:

| Frequency Range<br>[MHz] | 20dB Bandwidth<br>[MHz] |
|--------------------------|-------------------------|
| 2404                     | 2.15                    |

### Tx mode – Lowest Channel



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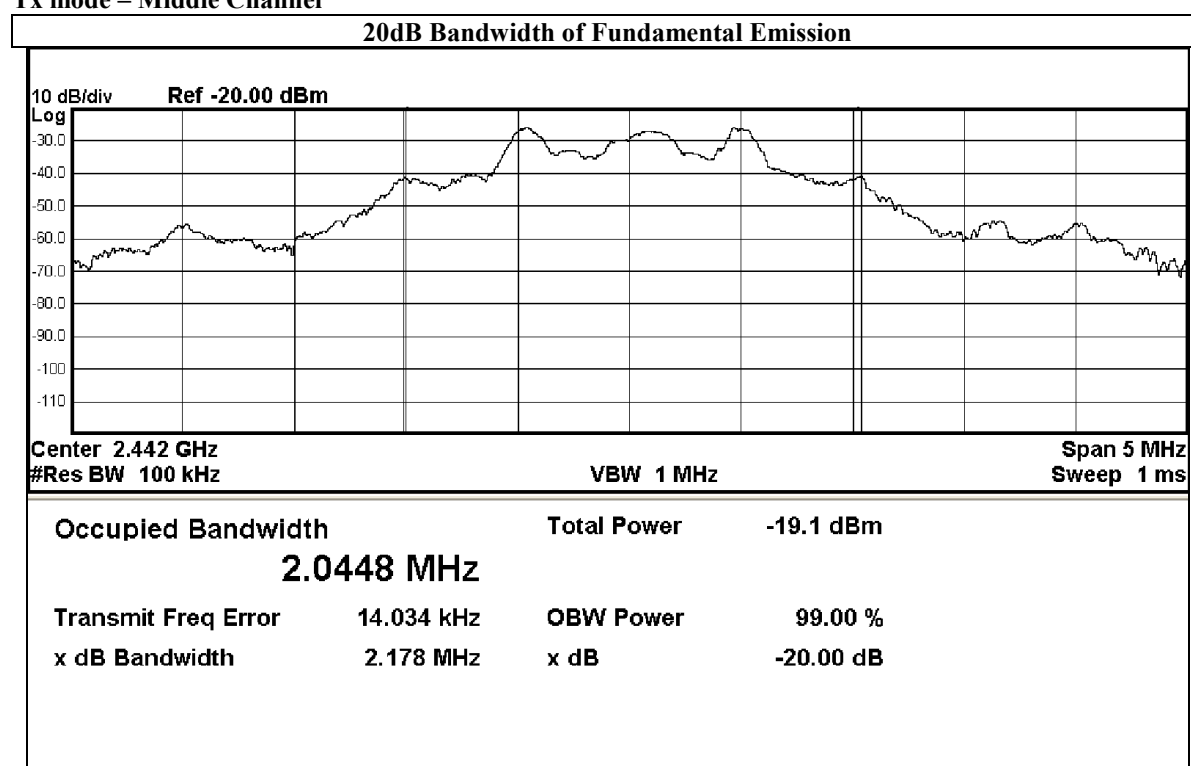
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| Frequency Range<br>[MHz] | 20dB Bandwidth<br>[MHz] |
|--------------------------|-------------------------|
| 2442.0                   | 2.18                    |

Tx mode – Middle Channel



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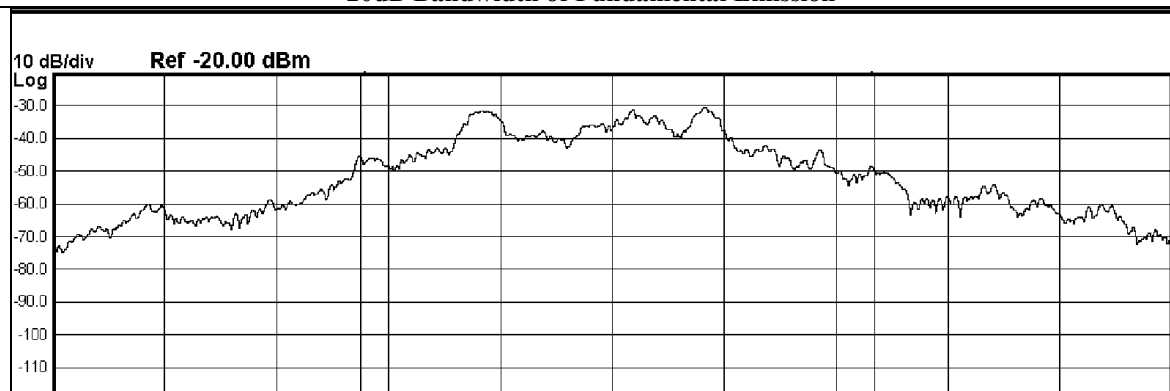
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|                          |                         |
|--------------------------|-------------------------|
| Frequency Range<br>[MHz] | 20dB Bandwidth<br>[MHz] |
| 2480.0                   | 2.37                    |

**Tx mode – Highest Channel**

### 20dB Bandwidth of Fundamental Emission



Center 2.48 GHz  
#Res BW 100 kHz

VBW 1 MHz

Span 5 MHz  
Sweep 1 ms

|                            |                   |                    |                  |
|----------------------------|-------------------|--------------------|------------------|
| <b>Occupied Bandwidth</b>  |                   | <b>Total Power</b> | <b>-24.2 dBm</b> |
| <b>2.2907 MHz</b>          |                   |                    |                  |
| <b>Transmit Freq Error</b> | <b>26.471 kHz</b> | <b>OBW Power</b>   | <b>99.00 %</b>   |
| <b>x dB Bandwidth</b>      | <b>2.374 MHz</b>  | <b>x dB</b>        | <b>-20.00 dB</b> |

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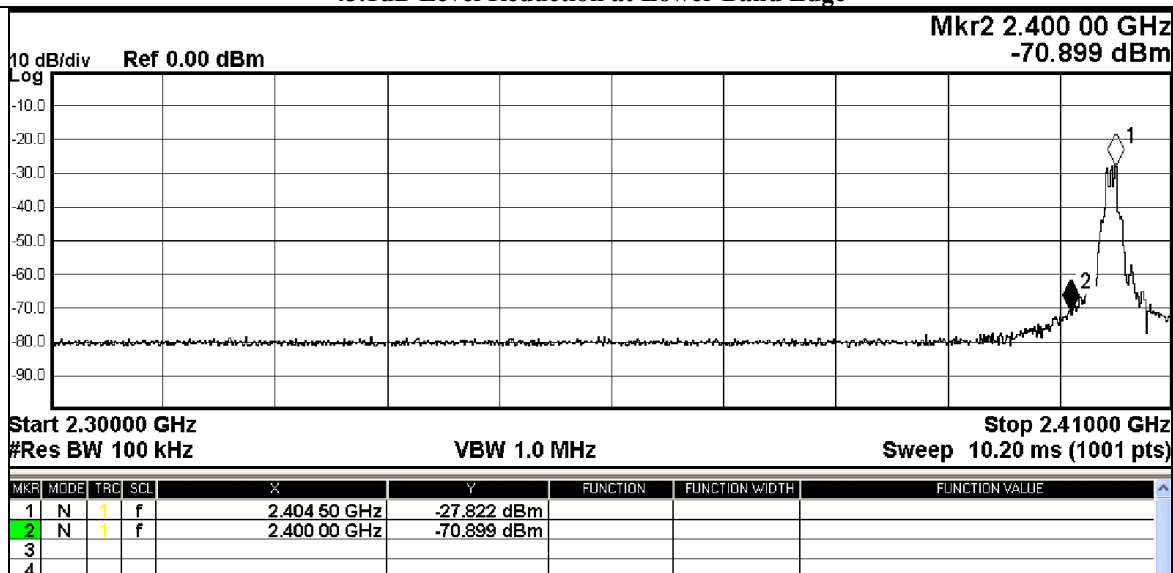
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### Band Edge Measurement:

| Frequency Range<br>[MHz] | Radiated Emission Attenuated below the Fundamental<br>[dB] |
|--------------------------|------------------------------------------------------------|
| 2404– Lowest Fundamental | 43.1                                                       |

### 43.1dB Level Reduction at Lower Band Edge



### Field Strength of Band Edge Emissions

#### Peak Value

| Frequency<br>MHz | Measured<br>Level @3m<br>dBμV/m | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
|------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| 2399.1           | 12.3                            | 27.5                           | 39.8                        | 97.7                      | 5,000             | Vertical            |

### Field Strength of Band Edge Emissions

#### Average Value

| Frequency<br>MHz | Measured<br>Level @3m<br>dBμV/m | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
|------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| 2399.1           | 0.7                             | 27.5                           | 28.2                        | 25.7                      | 500               | Vertical            |

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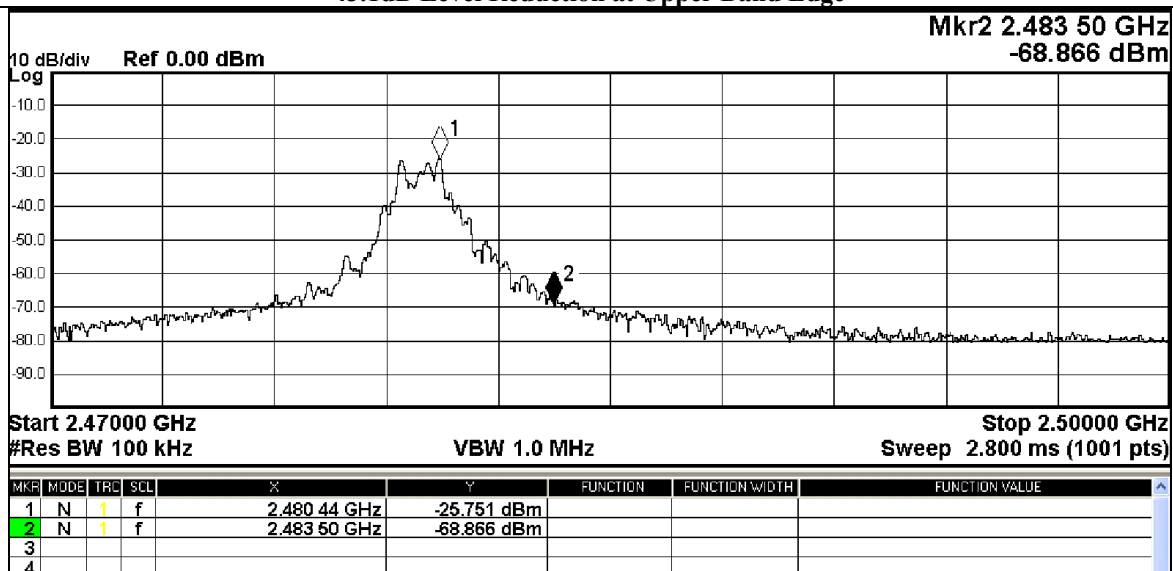
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### Band Edge Measurement:

| Frequency Range<br>[MHz]   | Radiated Emission Attenuated below the Fundamental<br>[dB] |
|----------------------------|------------------------------------------------------------|
| 2480 – Highest Fundamental | 43.1                                                       |

### 43.1dB Level Reduction at Upper Band Edge



### Field Strength of Band Edge Emissions

#### Peak Value

| Frequency<br>MHz | Measured<br>Level @3m<br>dBμV/m | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
|------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| 2484.1           | 11.0                            | 28.1                           | 39.1                        | 90.2                      | 5,000             | Vertical            |

### Field Strength of Band Edge Emissions

#### Average Value

| Frequency<br>MHz | Measured<br>Level @3m<br>dBμV/m | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
|------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| 2484.1           | 0.9                             | 28.1                           | 29.0                        | 28.2                      | 500               | Vertical            |

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### Limits for Radiated Emissions [FCC 47 CFR 15.209 Class B]:

| Frequency Range<br>[MHz] | Quasi-Peak Limits<br>[μV/m] |
|--------------------------|-----------------------------|
| 0.009-0.490              | 2400/F (kHz)                |
| 0.490-1.705              | 24000/F (kHz)               |
| 1.705-30                 | 30                          |
| 30-88                    | 100                         |
| 88-216                   | 150                         |
| 216-960                  | 200                         |
| Above 960                | 500                         |

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

### Result of Tx mode, (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

### Result of Tx mode, (30MHz – 1GHz): PASS

| Field Strength of Fundamental and Harmonics Emissions |                                 |                                |                             |                           |                   |                     |
|-------------------------------------------------------|---------------------------------|--------------------------------|-----------------------------|---------------------------|-------------------|---------------------|
| Quasi-Peak Value                                      |                                 |                                |                             |                           |                   |                     |
| Frequency<br>MHz                                      | Measured<br>Level @3m<br>dBμV/m | Correction<br>Factor<br>dBμV/m | Field<br>Strength<br>dBμV/m | Field<br>Strength<br>μV/m | Limit @3m<br>μV/m | E-Field<br>Polarity |
| 77.5                                                  | 0.3                             | 6.8                            | 7.1                         | 2.3                       | 100               | Vertical            |
| 111.2                                                 | 0.1                             | 8.6                            | 8.7                         | 2.7                       | 150               | Vertical            |
| 194.3                                                 | 0.2                             | 10.4                           | 10.6                        | 3.4                       | 150               | Horizontal          |
| 247.1                                                 | 0.7                             | 12.7                           | 13.4                        | 4.7                       | 200               | Horizontal          |
| 387.5                                                 | 0.5                             | 16.9                           | 17.4                        | 7.4                       | 200               | Horizontal          |
| 437.1                                                 | 0.5                             | 17.5                           | 18.0                        | 7.9                       | 200               | Horizontal          |

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### Appendix A

#### LIST OF MEASUREMENT EQUIPMENT

##### Radiated Emission

| EQP NO. | DESCRIPTION                             | MANUFACTURER | MODEL NO. | SERIAL NO. | LAST CAL   | DUE CAL    |
|---------|-----------------------------------------|--------------|-----------|------------|------------|------------|
| EM215   | MULTIDEVICE CONTROLLER                  | EMCO         | 2090      | 00024676   | N/A        | N/A        |
| EM217   | ELECTRIC POWERED<br>TURNABLE            | EMCO         | 2088      | 00029144   | N/A        | N/A        |
| EM218   | ANECHOIC CHAMBER                        | ETS-LINDGREN | FACT-3    | --         | 2017/04/21 | 2018/04/21 |
| EM356   | ANTENNA<br>POSITIONING TOWER            | ETS-LINDGREN | 2171B     | 00150346   | N/A        | N/A        |
| EM354   | BICONILOG ANTENNA                       | ETS-LINDGREN | 3143B     | 00142073   | 2016/02/29 | 2018/02/29 |
| EM229   | EMI TEST RECEIVER                       | R&S          | ESIB40    | 100248     | 2016/06/01 | 2017/06/01 |
| EM299   | DOUBLE-RIDGED WAVEGUIDE<br>HORN ANTENNA | ETS-LINDGREN | 3115      | 00114120   | 2016/04/27 | 2018/04/27 |
| EM300   | PYRAMIDAL STANDARD GAIN<br>HORN ANTENNA | ETS-LINDGREN | 3160-09   | 00130130   | 2016/05/13 | 2018/05/13 |
| EM301   | PYRAMIDAL STANDARD GAIN<br>HORN ANTENNA | ETS-LINDGREN | 3160-10   | 00130988   | 2016/05/13 | 2018/05/13 |
| EM353   | LOOP ANTENNA                            | ETS LINDGREN | 6502      | 00206533   | 2016/03/16 | 2018/03/16 |

#### Remarks:

CM Corrective Maintenance  
N/A Not Applicable or Not Available  
TBD To Be Determined

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### Appendix B

#### Photographs of EUT

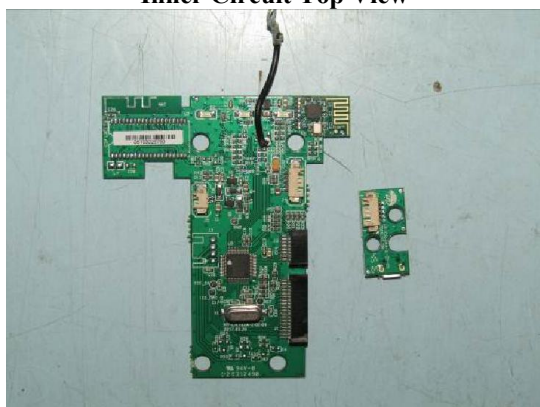
**Front View of the product**



**Rear View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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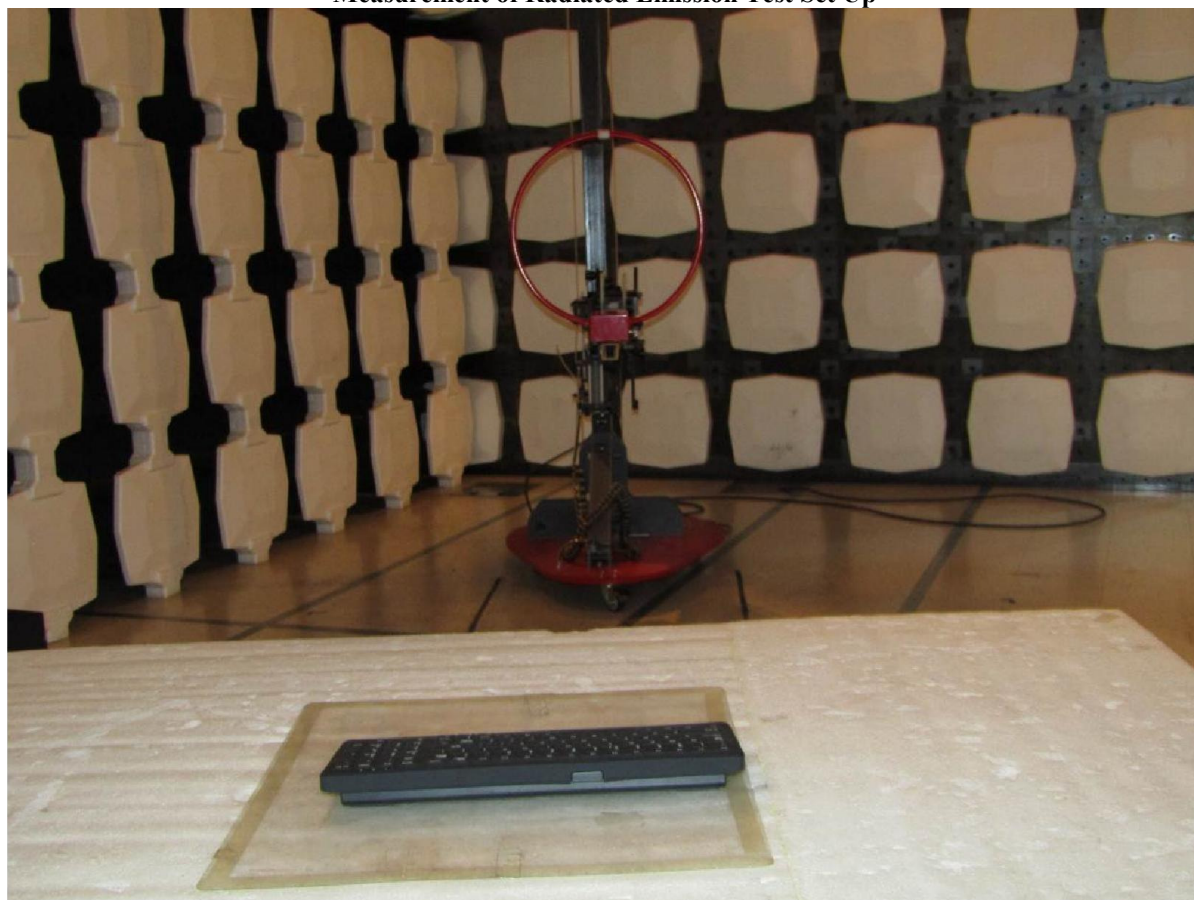
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### Photographs of EUT

Measurement of Radiated Emission Test Set Up



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**Measurement of Radiated Emission Test Set Up**



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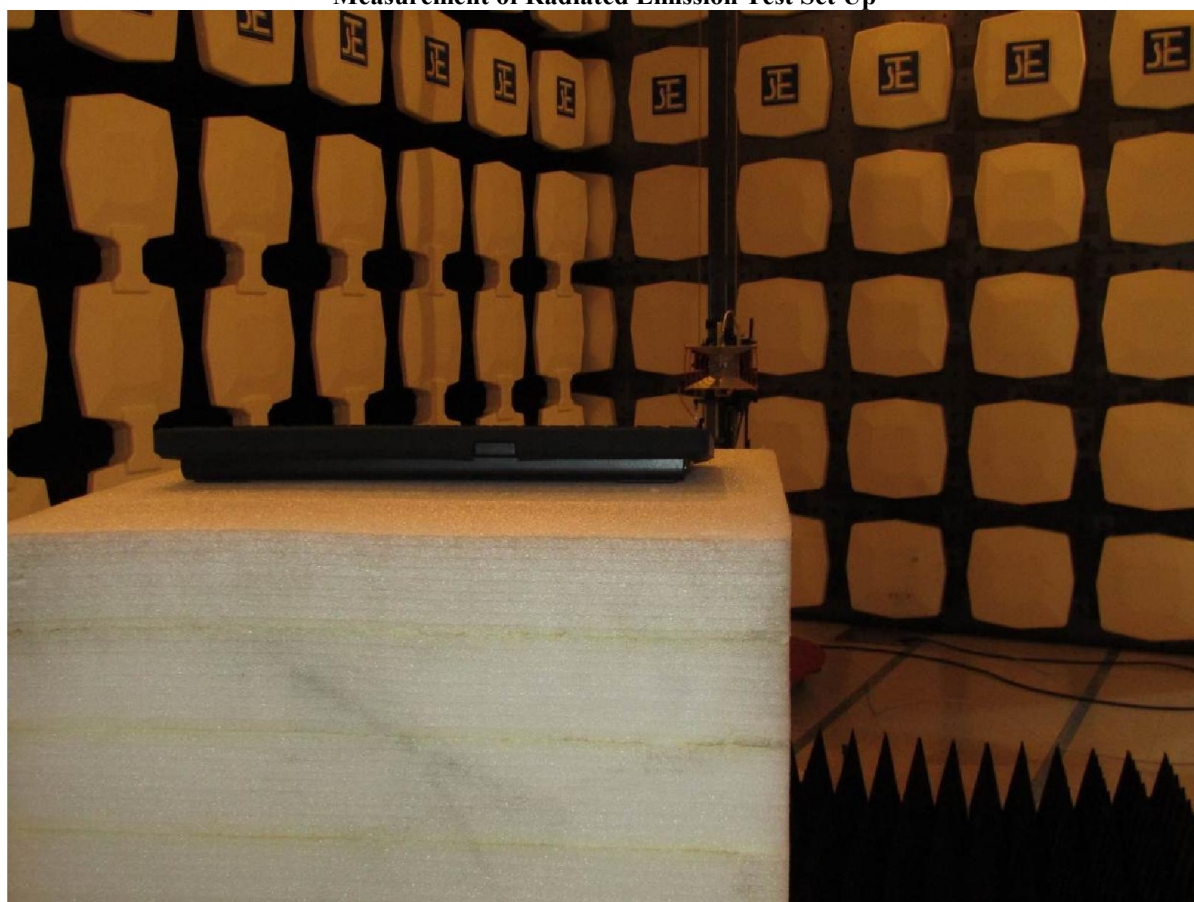
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### Photographs of EUT

Measurement of Radiated Emission Test Set Up



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