



## STC Test Report

Date : 2015-12-31

No. : MH191939

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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  
R.R.C., 8109040
- Description of Samples** : Submitted sample(s) said to be  
Product: Wireless Keyboard Dongle  
Brand Name: Heng Yu  
Model No.: GD-001  
FCC ID: XENGD001
- Date Samples Received** : 2015-09-18
- Date Tested** : 2015-10-17 to 2015-10-21
- Investigation Requested** : Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2014 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.
- Remarks** : ---



CHEUNG Chi, Kenneth  
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 Dongle  
Manufacturer: Zhuhai Heng Yu New Technology Company Limited  
Heng Ke Campus, Jin Hai Avenue, San Zao, Zhu Hai, Guang Dong  
R.R.C. 8109040  
Brand Name: Heng Yu  
Model Number: GD-001  
Rating: 120Va.c./ 5Vd.c. (draw power from USB port)

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

The Equipment Under Test (EUT) is a USB dongle of a wireless keyboard. The EUT operating in the 2.4GHz ISM frequency band. The RF signal is modulated by IC, the type of modulation used is FSK.

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

2015-09-18

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

1 Sample

#### **1.5** **Test Duration**

2015-10-17 to 2015-10-21

#### **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: 2014 Regulations and ANSI C63.10: 2013 for FCC Certification. The device was realized by test software.

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

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Fail	N/A
Field Strength of Fundamental & Harmonics Emissions	FCC 47CFR 15.249	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AC Mains Conducted Emissions	FCC 47CFR 15.207	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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### **3.0 Test Results**

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions**

Test Requirement:	FCC 47CFR 15.249 & FCC 47CFR 15.209
Test Method:	ANSI C63.10: 2013
Test Date:	2015-10-21
Mode of Operation:	TX mode

#### **Test Method:**

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, 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. The emissions worst-case are shown in Test Results of the following pages.

\*: 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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### Spectrum Analyzer Setting:

9KHz – 30MHz (Pk & Av)

RBW: 10kHz  
VBW: 30kHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

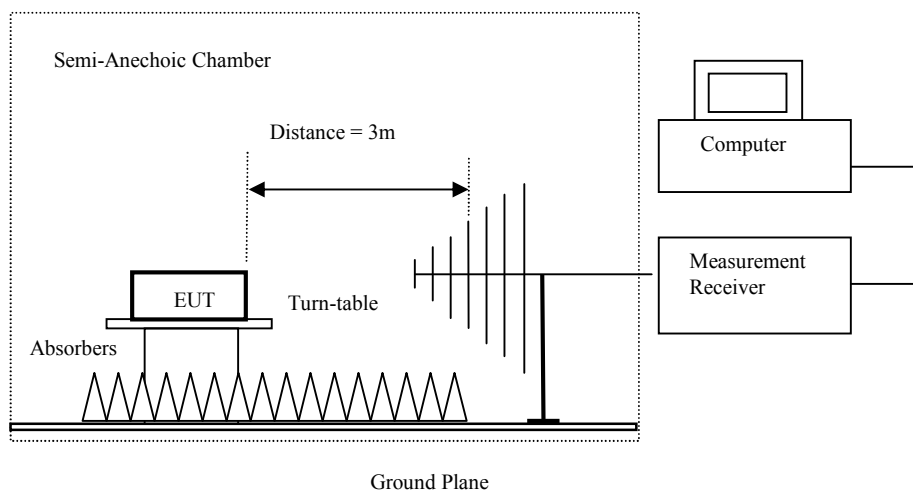
30MHz – 1GHz (QP)

RBW: 120kHz  
VBW: 120kHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

Above 1GHz (Pk & Av)

RBW: 1MHz  
VBW: 1MHz  
Sweep: Auto  
Span: Fully capture the emissions being measured  
Trace: Max. hold

### Test Setup:



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [microvolts/meter]	Field Strength of Harmonics Emission [microvolts/meter]
902-928	50,000 [Quasi-Peak]	500 [Average]
2400-2483.5	50,000 [Average]	500 [Average]

**Results of Tx mode (Lowest Frequency Channel-2404MHz) (Above 1GHz): Pass**

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2404.00	48.5	36.4	84.9	17,579.2	500,000	Horizontal
2404.00	48.9	36.8	85.7	19,275.2	500,000	Vertical

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2404.00	38.2	36.4	74.6	5,370.3	50,000	Horizontal
2404.00	38.4	36.8	75.2	5,754.4	50,000	Vertical

Field Strength of Harmonics Emission Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4808.0	6.4	42.4	48.8	275.4	5,000	Horizontal
4808.0	8.3	41.5	49.8	309.0	5,000	Vertical
7212.0	2.9	46.2	49.1	285.1	5,000	Horizontal
7212.0	3.8	45.1	48.9	278.6	5,000	Vertical
9616.0	1.5	48.8	50.3	327.3	5,000	Horizontal
9616.0	3.7	48.0	51.7	384.6	5,000	Vertical
12020.0	2.9	52.4	55.3	582.1	5,000	Horizontal
12020.0	3.1	51.5	54.6	537.0	5,000	Vertical

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Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4808.0	-5.5	42.4	36.9	70.0	500	Horizontal
4808.0	-4.0	41.5	37.5	75.0	500	Vertical
7212.0	-8.3	46.2	37.9	78.5	500	Horizontal
7212.0	-7.6	45.1	37.5	75.0	500	Vertical
9616.0	-10.5	48.8	38.3	82.2	500	Horizontal
9616.0	-9.2	48.0	38.8	87.1	500	Vertical
12020.0	-12.2	52.4	40.2	102.3	500	Horizontal
12020.0	-11.6	51.5	39.9	98.9	500	Vertical

Results of Tx mode (Middle Frequency Channel- 2442MHz) (Above 1GHz): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2442.00	48.6	36.4	85.0	17,782.8	500,000	Horizontal
2442.00	49.0	36.8	85.8	19,498.4	500,000	Vertical

Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2442.00	38.7	36.4	75.1	5,688.5	50,000	Horizontal
2442.00	38.4	36.8	75.2	5,754.4	50,000	Vertical

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Field Strength of Harmonics Emission						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4884.0	7.2	42.5	49.7	305.5	5,000	Horizontal
4884.0	7.2	41.6	48.8	275.4	5,000	Vertical
7326.0	2.6	46.3	48.9	278.6	5,000	Horizontal
7326.0	4.3	45.2	49.5	298.5	5,000	Vertical
9768.0	0.5	48.9	49.4	295.1	5,000	Horizontal
9768.0	2.5	48.1	50.6	338.8	5,000	Vertical
12210.0	2.7	52.5	55.2	575.4	5,000	Horizontal
12210.0	3.2	51.6	54.8	549.5	5,000	Vertical

Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4884.0	-4.1	42.5	38.4	83.2	500	Horizontal
4884.0	-4.3	41.6	37.3	73.3	500	Vertical
7326.0	-8.6	46.3	37.7	76.7	500	Horizontal
7326.0	-7.4	45.2	37.8	77.6	500	Vertical
9768.0	-10.4	48.9	38.5	84.1	500	Horizontal
9768.0	-9.3	48.1	38.8	87.1	500	Vertical
12210.0	-11.7	52.5	40.8	109.6	500	Horizontal
12210.0	-12.0	51.6	39.6	95.5	500	Vertical

Results of Tx mode (Highest Frequency Channel – 2480MHz) (Above 1GHz): Pass

Field Strength of Fundamental Emissions						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2480.00	48.4	36.4	84.8	17,378.0	500,000	Horizontal
2480.00	49.1	36.8	85.9	19,724.2	500,000	Vertical

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Field Strength of Fundamental Emissions						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
2480.00	37.9	36.4	74.3	5,188.0	50,000	Horizontal
2480.00	38.6	36.8	75.4	5,888.4	50,000	Vertical

Field Strength of Harmonics Emission						
Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4960.0	6.6	42.7	49.3	291.7	5,000	Horizontal
4960.0	7.2	41.4	48.6	269.2	5,000	Vertical
7440.0	3.2	46.5	49.7	305.5	5,000	Horizontal
7440.0	2.5	45.6	48.1	254.1	5,000	Vertical
9920.0	1.5	49.7	51.2	363.1	5,000	Horizontal
9920.0	3.3	48.6	51.9	393.6	5,000	Vertical
12400.0	2.7	52.7	55.4	588.8	5,000	Horizontal
12400.0	2.9	51.7	54.6	537.0	5,000	Vertical

Field Strength of Harmonics Emission						
Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V/m	Correction Factor dB $\mu$ V/m	Field Strength dB $\mu$ V/m	Field Strength $\mu$ V/m	Limit @3m $\mu$ V/m	E-Field Polarity
4960.0	-4.1	42.7	38.6	85.1	500	Horizontal
4960.0	-3.2	41.4	38.2	81.3	500	Vertical
7440.0	-8.6	46.5	37.9	78.5	500	Horizontal
7440.0	-7.7	45.6	37.9	78.5	500	Vertical
9920.0	-10.4	49.7	39.3	92.3	500	Horizontal
9920.0	-10.0	48.6	38.6	85.1	500	Vertical
12400.0	-11.9	52.7	40.8	109.6	500	Horizontal
12400.0	-10.9	51.7	40.8	109.6	500	Vertical

**Remarks:**

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

Calculated measurement uncertainty (9kHz - 30MHz): 2.0dB  
(30MHz – 1GHz): 4.9dB  
(1GHz - 26GHz): 4.0dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu\text{V}/\text{m}$ ]
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
Above960	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.

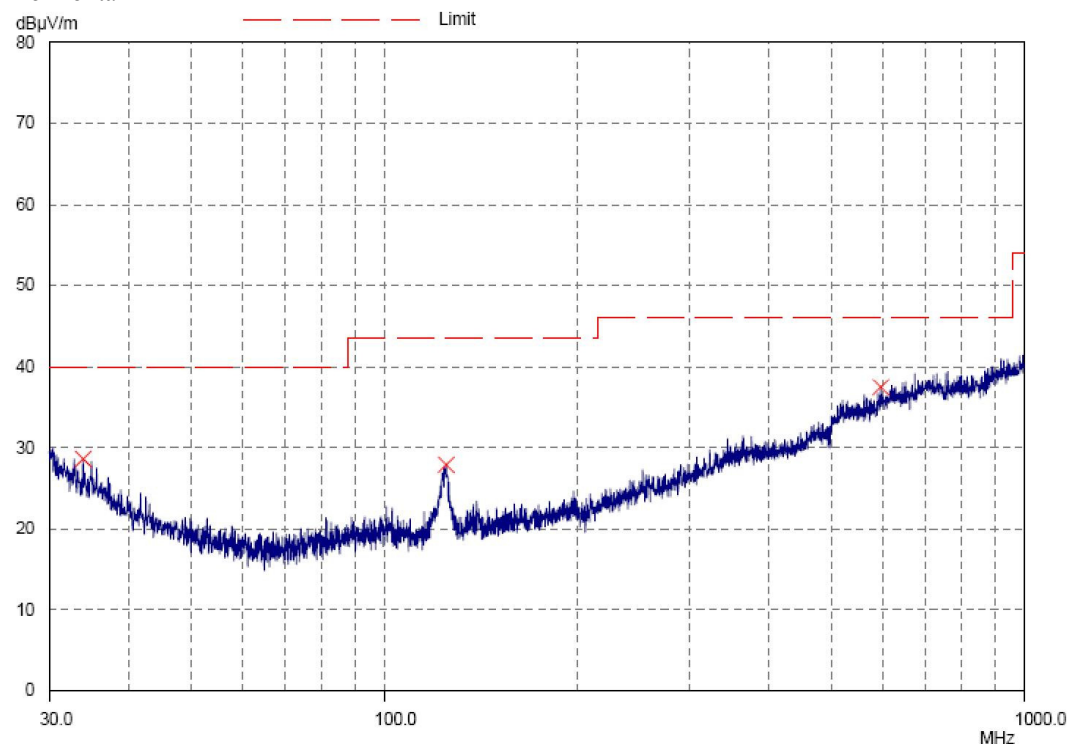
### Results of TX mode (Highest Frequency Channel – 2480MHz) (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

### Results of TX mode (Highest Frequency Channel – 2480MHz) (30MHz – 1GHz): PASS

Please refer to the following table for result details

#### Horizontal



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### Results of TX mode (Highest Frequency Channel – 2480MHz) (30MHz – 1GHz): PASS

Radiated Emissions					
Quasi-Peak					
Emission Frequency	E-Field Polarity	Level @3m	Limit @3m	Level @3m	Limit @3m
MHz		dB $\mu$ V/m	dB $\mu$ V/m	$\mu$ V/m	$\mu$ V/m
33.9	Horizontal	28.6	40.0	26.9	100
125.2	Horizontal	27.9	43.5	24.8	150
596.4	Horizontal	37.4	46.0	74.1	200

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

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu\text{V/m}$ ]
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
Above960	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.

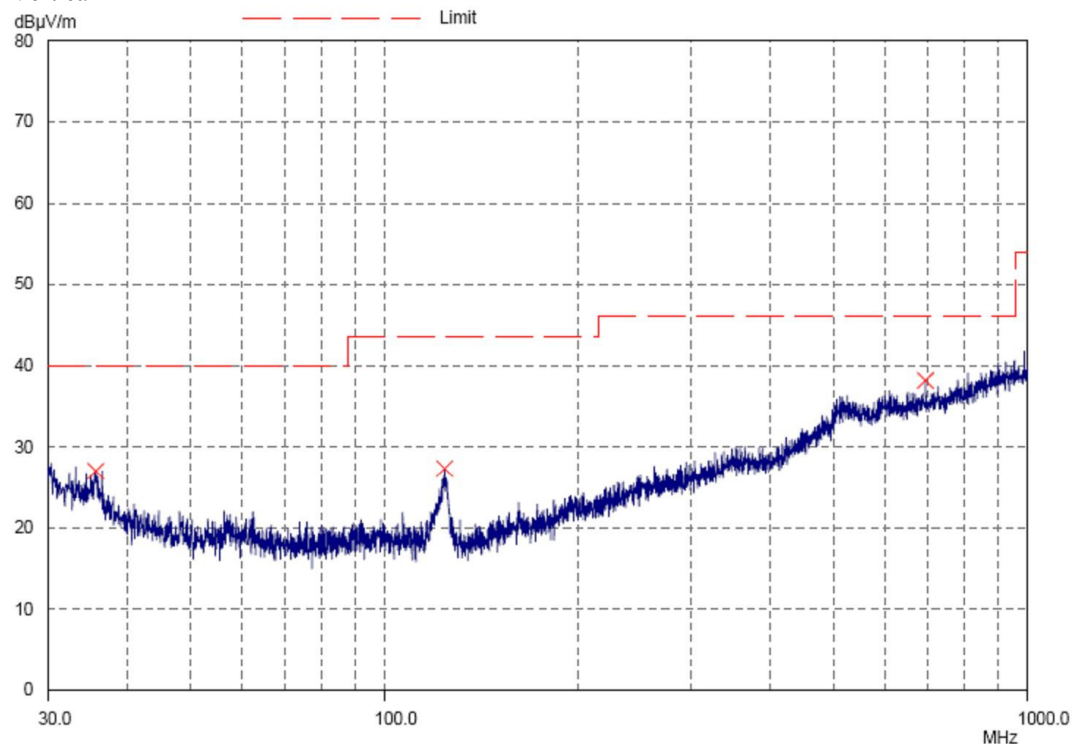
### Results of TX mode (Highest Frequency Channel – 2480MHz) (9kHz – 30MHz): PASS

Emissions detected are more than 20 dB below the FCC Limits

### Results of TX mode (Highest Frequency Channel – 2480MHz) (30MHz – 1GHz): PASS

Please refer to the following table for result details

Vertical



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### Results of TX mode (Highest Frequency Channel – 2480MHz) (30MHz – 1GHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Level @3m $\mu$ V/m	Limit @3m $\mu$ V/m
35.6	Vertical	27.0	40.0	22.4	100
124.1	Vertical	27.3	43.5	23.2	150
694.8	Vertical	38.4	46.0	83.2	200

Remarks:

Calculated measurement uncertainty (9kHz - 30MHz): 2.0dB  
(30MHz – 1GHz): 4.9dB  
(1GHz - 26GHz): 4.0dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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## STC Test Report

Date : 2015-12-31

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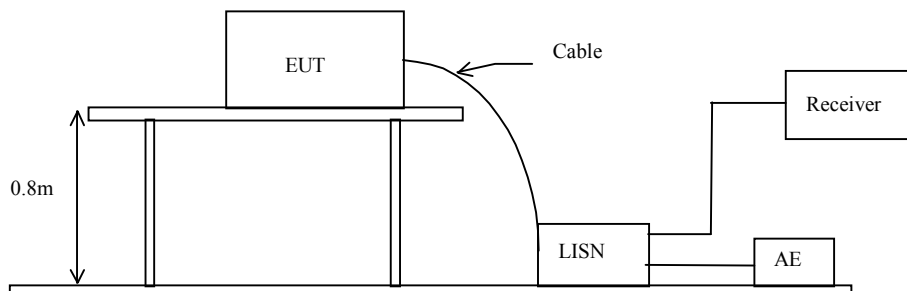
### 3.1.2 AC Mains Conducted Emissions (0.15MHz to 30MHz)

Test Requirement:	FCC 47CFR 15.207
Test Method:	ANSI C63.10:2013
Test Date:	2015-10-19
Mode of Operation:	TX mode
Test Voltage:	120V a.c. 60Hz

#### Test Method:

The test was performed in accordance with ANSI C63.4: 2009, with the following: an initial measurement was performed in peak and average detection mode on the live line, any emissions recorded within 30dB of the relevant limit line were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### Test Setup:



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**Limit for Conducted Emissions (FCC 47 CFR 15.207):**

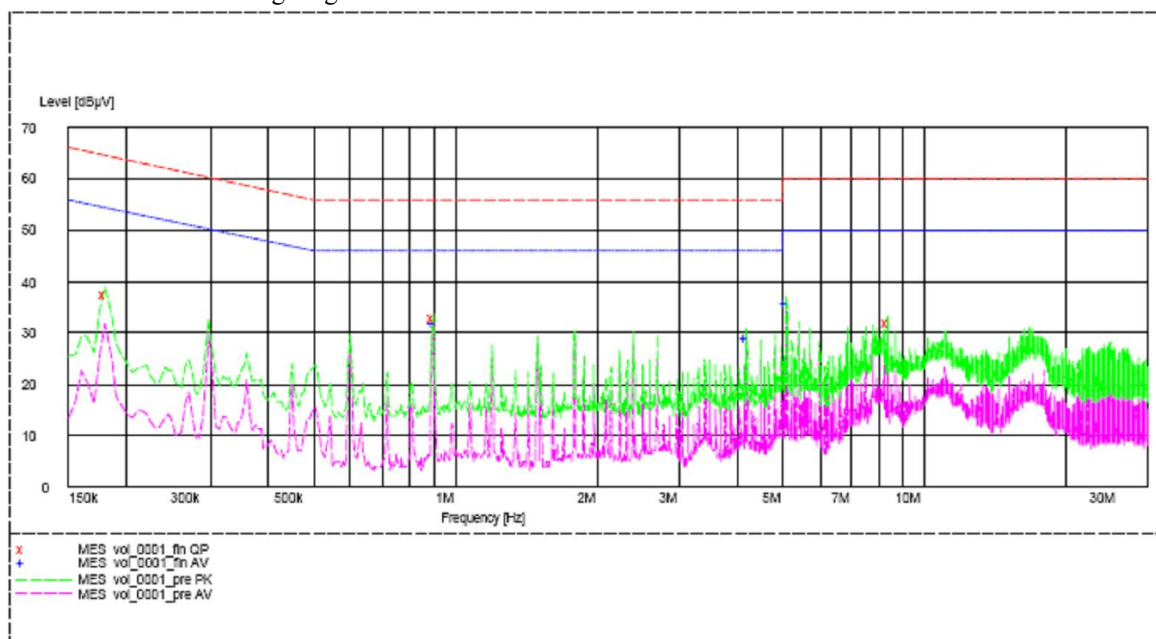
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

**Result of TX mode(USB connected to PC, PC mains) (L): PASS**

Please refer to the following diagram for individual results.



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
Live	0.900	32.0	46.0	-*-	-*-
Live	4.195	28.8	46.0	-*-	-*-
Live	5.095	35.9	50.0	-*-	-*-
Live	0.180	-*-	-*-	37.3	65.0
Live	0.900	-*-	-*-	33.0	56.0
Live	8.395	-*-	-*-	32.2	60.0

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### Limit for Conducted Emissions (FCC 47 CFR 15.207):

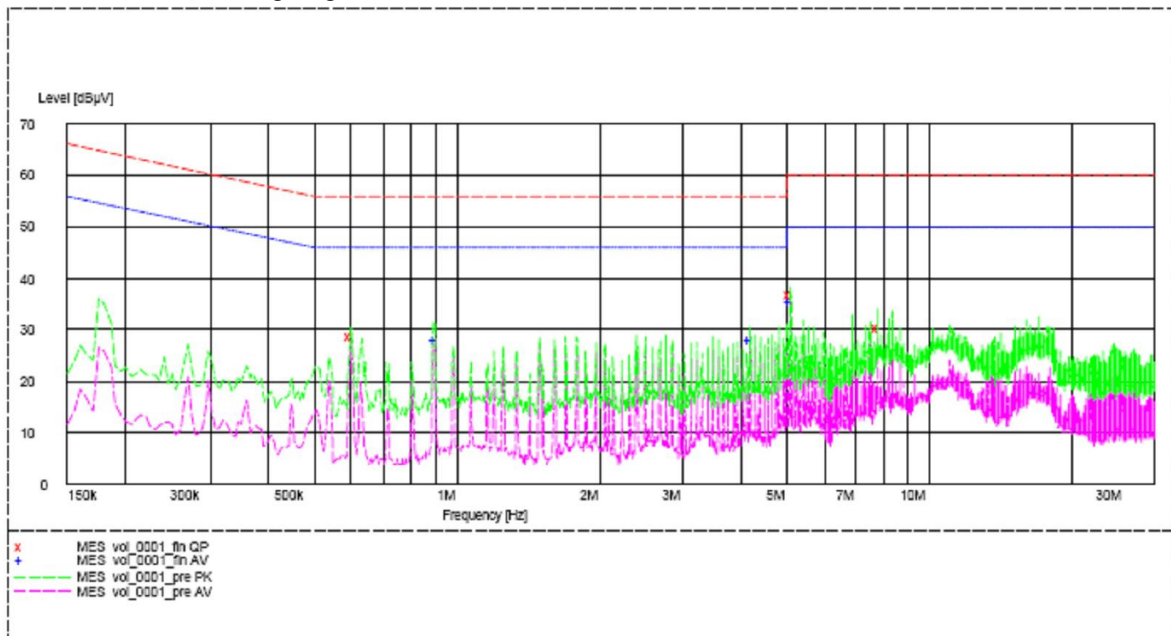
Frequency Range [MHz]	Quasi-Peak Limits [dBμV]	Average [dBμV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.

### Result of TX mode(USB connected to PC, PC mains) (N): PASS

Please refer to the following diagram for individual results.



Conductor Live or Neutral	Frequency MHz	Quasi-peak		Average	
		Level dBμV	Limit dBμV	Level dBμV	Limit dBμV
Neutral	0.900	28.3	46.0	-*-	-*-
Neutral	4.195	28.4	46.0	-*-	-*-
Neutral	5.095	35.6	50.0	-*-	-*-
Neutral	0.600	-*-	-*-	28.5	56.0
Neutral	5.095	-*-	-*-	36.8	60.0
Neutral	7.790	-*-	-*-	30.5	60.0

#### Remarks:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.2dB

-\*- Emission(s) that is far below the corresponding limit line.

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### 3.2 20dB Bandwidth of Fundamental Emission

Test Requirement:	FCC 47 CFR 15.249
Test Method:	ANSI C63.10: 2013
Test Date:	2015-10-17
Mode of Operation:	Tx mode

#### **Test Method:**

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### **Test Setup:**

As Test Setup of clause 3.1.1 in this test report.

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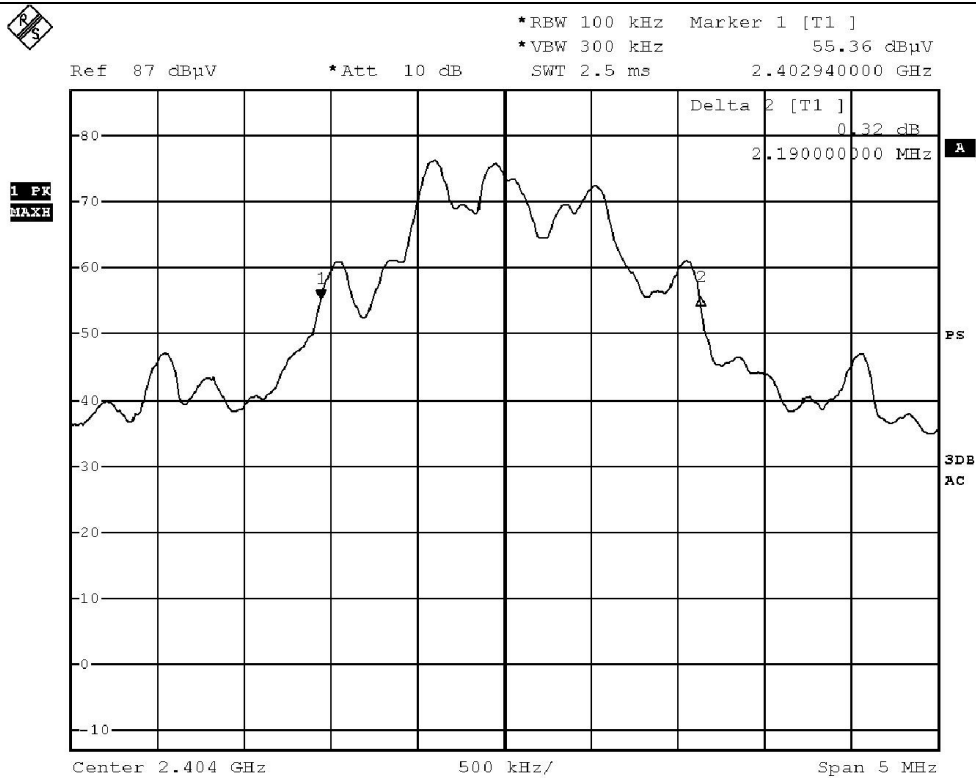
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### Limits for 20dB Bandwidth of Fundamental Emission (Low Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2404	2.19

### 20dB Bandwidth of Fundamental Emission



BMP

Date: 17.OCT.2015 11:42:09



# STC Test Report

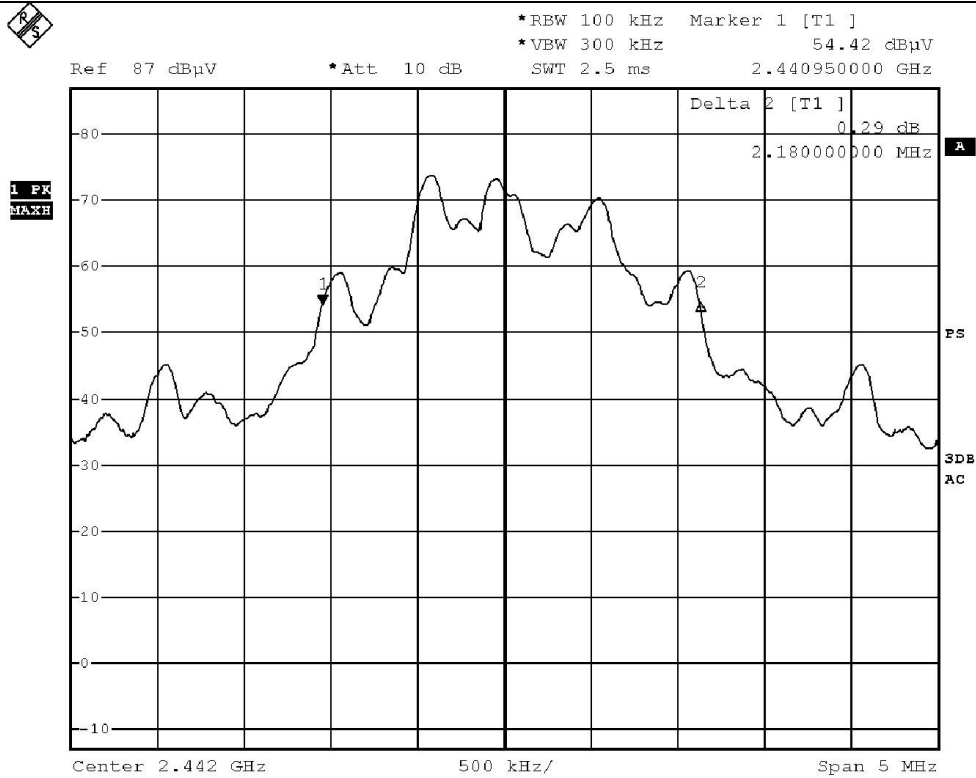
Date : 2015-12-31  
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### Limits for 20dB Bandwidth of Fundamental Emission (Middle Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2442	2.18

### 20dB Bandwidth of Fundamental Emission



BMP

Date: 17.OCT.2015 11:39:22

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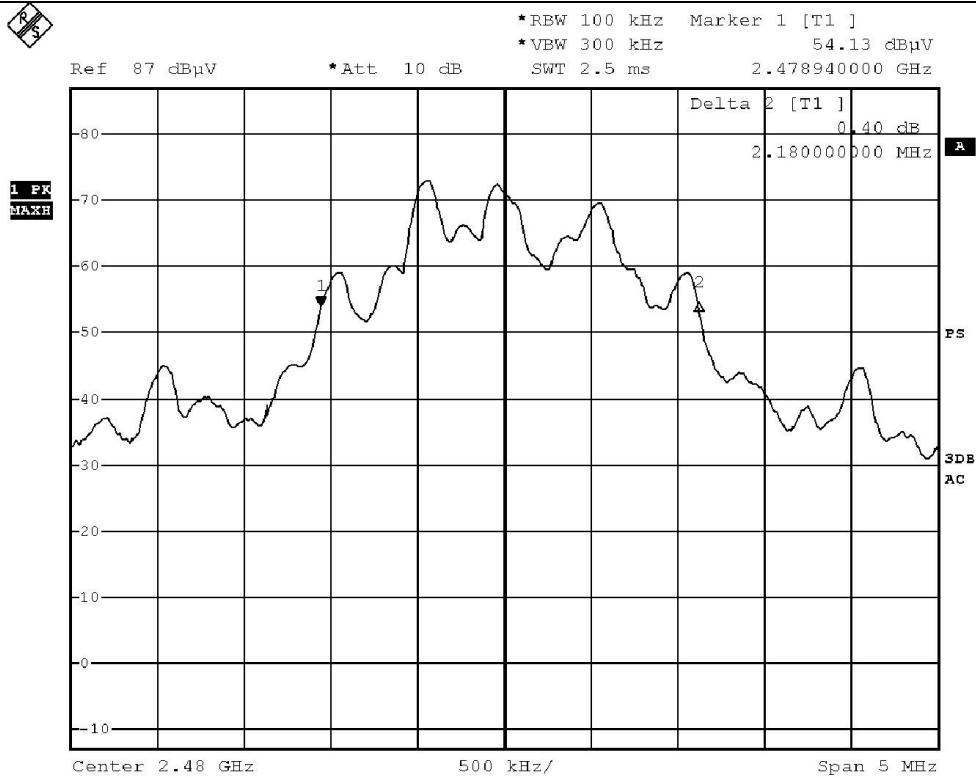
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### Limits for 20dB Bandwidth of Fundamental Emission (High Frequency Channel):

Frequency Range [MHz]	20dB Bandwidth [MHz]
2480	2.18

### 20dB Bandwidth of Fundamental Emission



BMP

Date: 17.OCT.2015 11:38:28



# STC Test Report

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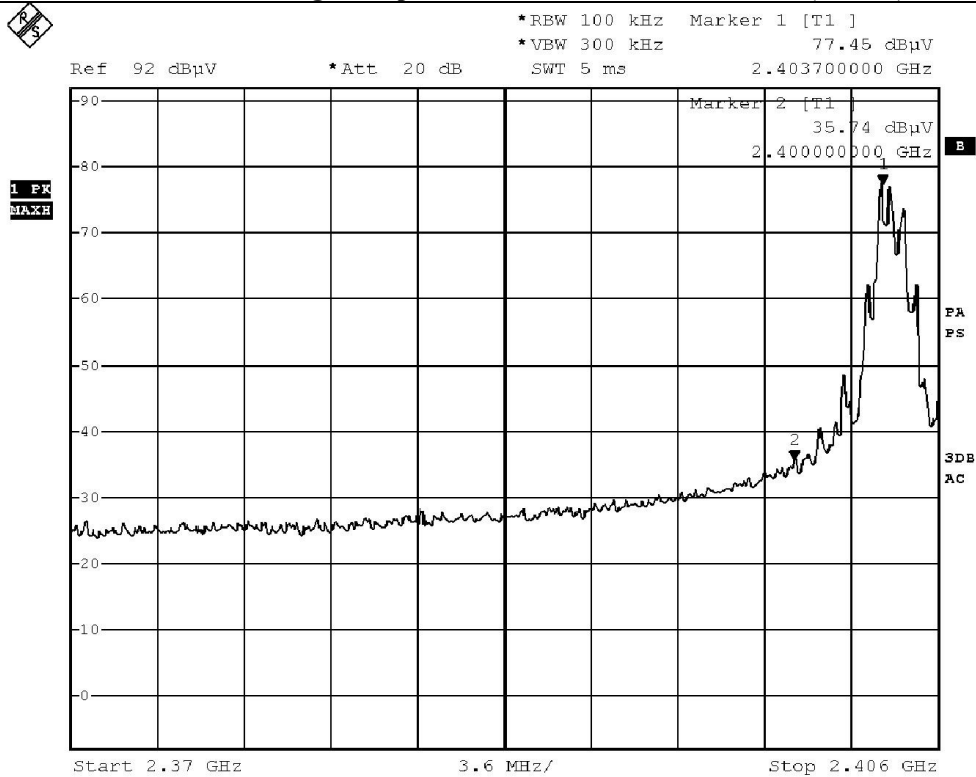
### Band-edge Compliance of RF Conducted Emissions Measurement:

#### Limit :

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
2400 – Lowest Fundamental (2404)	41.71

### Band-edge Compliance of RF Conducted Emissions (Lowest)



BMP

Date: 17.OCT.2015 09:40:42

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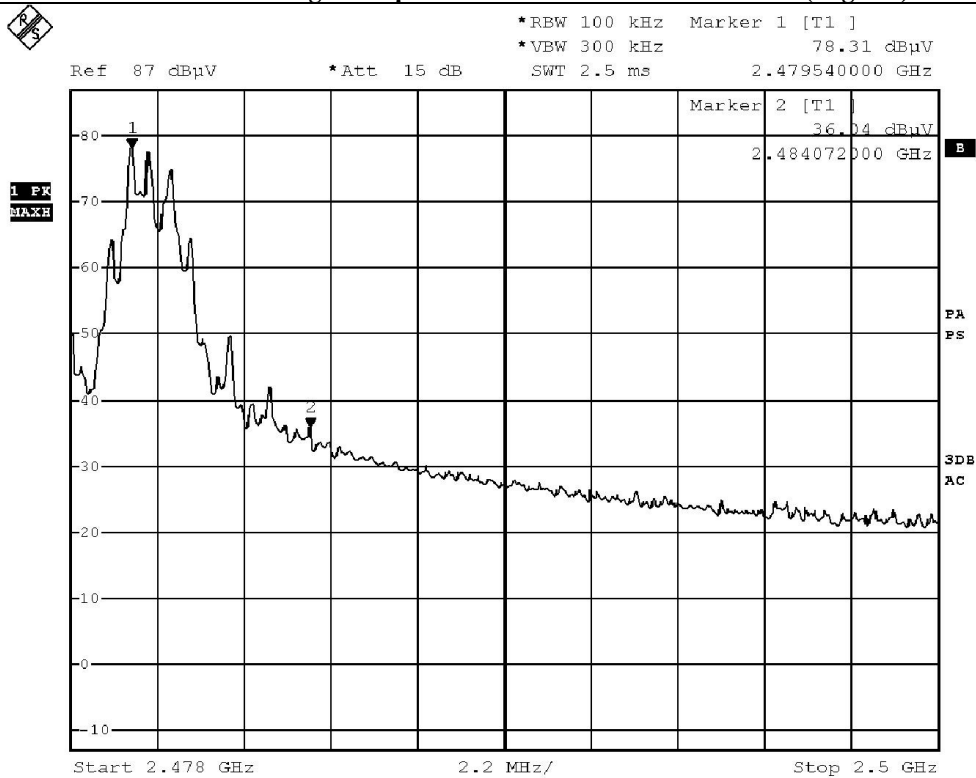
Date : 2015-12-31  
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### Band-edge Compliance of RF Conducted Emissions Measurement:

Frequency Range [MHz]	Radiated Emission Attenuated below the Fundamental [dB]
Highest Fundamental (2474) - 2480	42.27

### Band-edge Compliance of RF Conducted Emissions (Highest)



BMP

Date: 17.OCT.2015 09:36:28



## STC Test Report

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### Band-edge Compliance of RF Radiated Emissions Measurement:

#### Limit :

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

### Result: Band-edge Compliance of RF Radiated Emissions (Lowest)

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2390.0	8.3	36.8	45.1	74.0	28.9	Vertical

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2390.0	0.1	36.8	36.9	54.0	17.1	Vertical

### Result: Band-edge Compliance of RF Radiated Emissions (Highest)

Field Strength of Band-edge Compliance Peak Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2483.5	9.8	36.4	46.2	74.0	27.8	Horizontal

Field Strength of Band-edge Compliance Average Value						
Frequency MHz	Measured Level @3m dB $\mu$ V	Correction Factor dB/m	Field Strength dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB $\mu$ V/m	E-Field Polarity
2483.5	1.4	36.4	37.8	54.0	16.2	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
EM299	DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA	ETS-LINDGREN	3115	00114120	2014/01/15	2016/01/25
EM300	PYRAMIDAL STANDARD GAIN HORN ANTENNA	ETS-LINDGREN	3160-09	00130130	2014/01/23	2016/01/23
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2014/09/29	2016/09/29
EM320	BICONILOG ANTENNA	ETS-LINDGREN	3142D	00094856	2014/08/06	2016/08/06
EM022	LOOP ANTENNA	EMCO	6502	1189-2424	2014/01/15	2016/01/15
EM229	EMI TEST RECEIVER	R&S	ESIB40	100248	2015/06/01	2016/06/01
EM527	MICROWAVE FREQUENCY CABLE	SUHNER	SUCOFLEX 102	24514	2014/08/26	2016/08/26
EM528	MICROWAVE FREQUENCY CABLE	SUHNER	SUCOFLEX 102	24515	2014/08/26	2016/08/26

Remarks:-

N/A Not Applicable or Not Available

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### Appendix B

#### Ancillary Equipment

ITEM NO.	DESCRIPTION	MODEL NO.	FCC ID	REMARK
1	DELL COMPUTER	DMC	N/A	N/A
2	DELL MONITOR	E177FPB	ARSCM356N	RESOLUTION 1024*768 (DURING TESTING) 1.0M UNSHIEDED POWER VORD CONNECTED TO THE COMPUTER 1.5M SHIEDED CABLE CONNECTED TO THE COMPUTER
3	KEYBOARD	CK82B-RF	N/A	N/A
4	LENOVO MOUSE	M-U0025-O	---	1.8M UNSHIEDED CABLE CONNECTED TO THE COMPUTER S/N: LZ150AL1L7T
5	LASER PRINTER	HP LASERJET 1020 PLUS	N/A	1.8M UNSHIEDED POWER CORD 2.8M SHIEDED CABLE (BUNDLED TO 1M) CONNECTED TO THE COMPUTER

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### Appendix C

#### Photographs of EUT

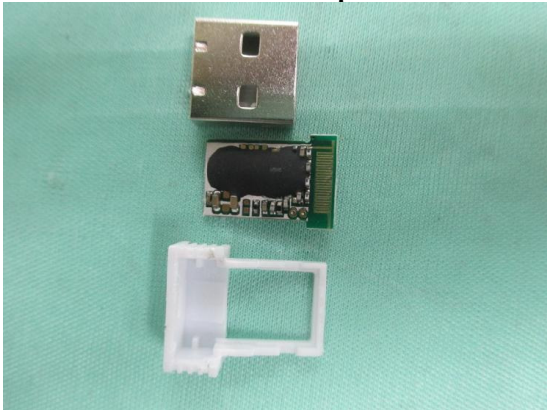
**Front View of the product**



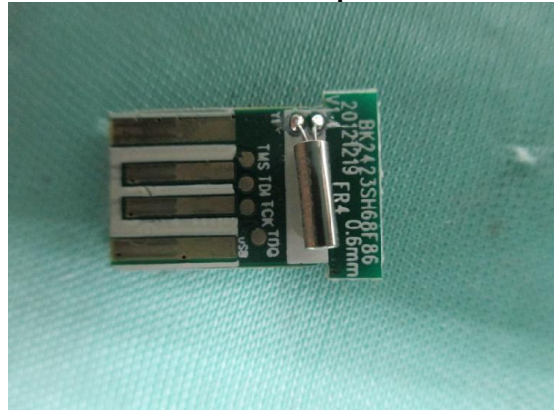
**Rear View of the product**



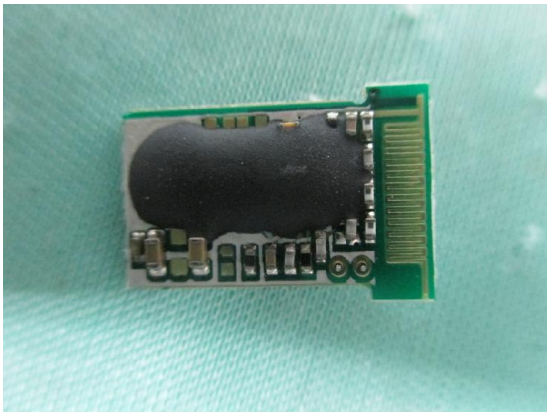
**Inside View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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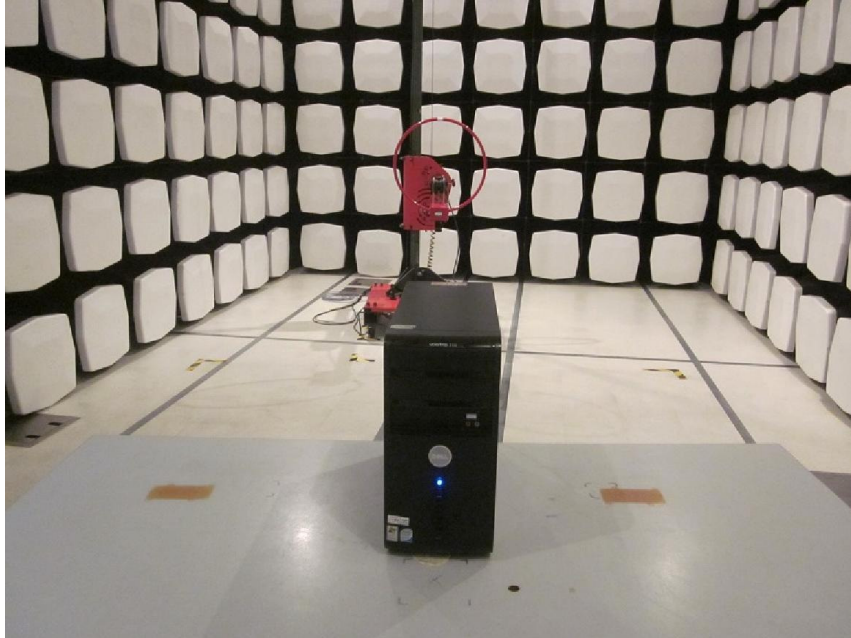
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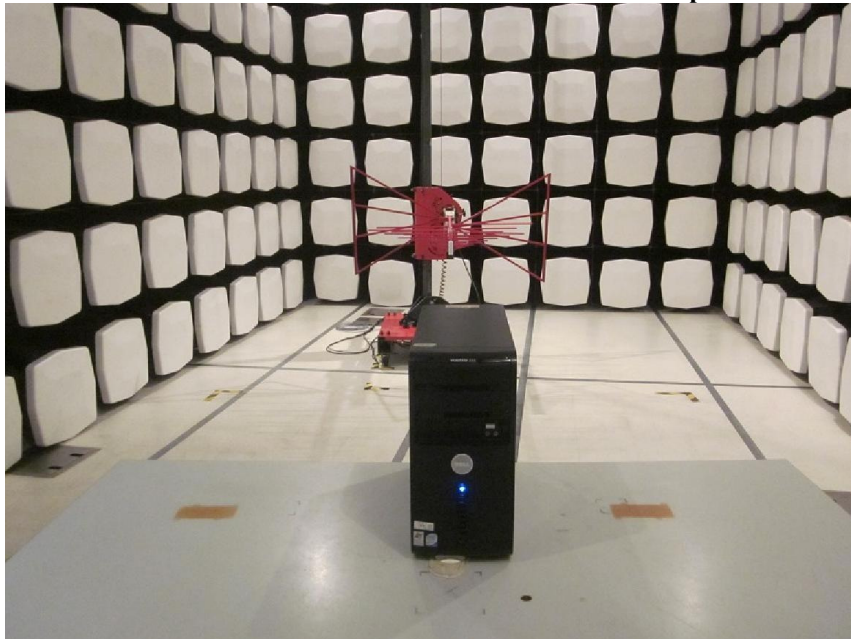
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### Photographs of EUT

**Measurement of Radiated Emission Test Set Up**



**Measurement of Radiated Emission Test Set Up**



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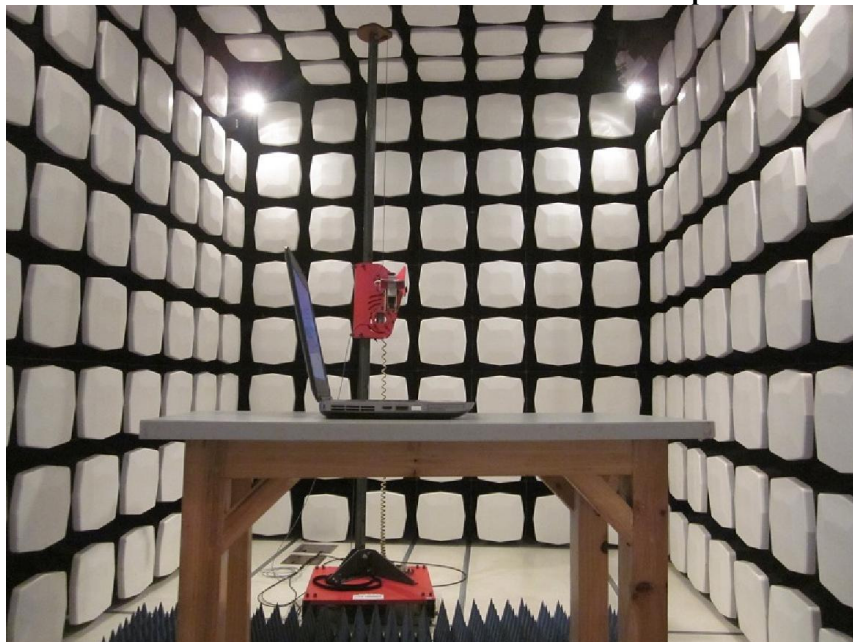
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### Photographs of EUT

**Measurement of Radiated Emission Test Set Up**



**Measurement of Conducted Emission Test Set Up**



**\*\*\*\*\* End of Test Report \*\*\*\*\***

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