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Report No.: GTI20150544F-4

Page 1 of 19

# FCC TEST REPORT

**Product name**.....: 7.0" PAD

**Trademark** .....: /

**Model/Type reference** .....: 700P71C

**Listed Model(s)** .....: See the page 6

**FCC ID**.....: ROU00014

**Test Standards** .....: **47 CFR FCC Part 15 Subpart B - Unintentional Radiators**  
**ANSI C63.4: 2009**

**Applicant** .....: Shenzhen KTC Technology Co., Ltd.

**Address of applicant** .....: Northern Wuhe Road, Gangtou,Buji, Longgang,Shenzhen,  
China

**Date of Receipt** .....: Sept. 20, 2015

**Date of Test Date**.....: Sept. 20, 2015 - Nov. 27, 2015

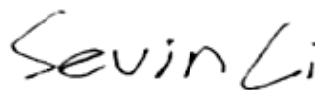
**Data of issue.** .....: Nov. 27, 2015

|                    |               |
|--------------------|---------------|
| <b>Test result</b> | <b>Pass *</b> |
|--------------------|---------------|

\* In the configuration tested, the EUT complied with the standards specified above

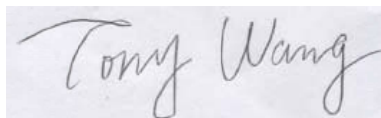
| GENERAL DESCRIPTION OF EUT |                                                                         |
|----------------------------|-------------------------------------------------------------------------|
| Equipment:                 | 7.0" PAD                                                                |
| Model Name:                | 700P71C                                                                 |
| Manufacturer:              | Shenzhen KTC Technology Co., Ltd.                                       |
| Manufacturer Address:      | Northern Wuhe Road, Gangtoubu, Longgang, Shenzhen, China                |
| Power Rating:              | DC 3.7V form 2800mAh by rechargeable battery or<br>DC 5.0V form adapter |

Compiled By:



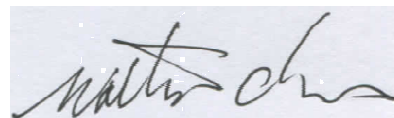
(Sevin Li)

Reviewed By:



(Tony Wang)

Approved By:



(Walter Chen)

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## SUMMARY

### Test Standards

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2014 – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

### Test Description

| Emission Measurement requirements |            |      |
|-----------------------------------|------------|------|
| Radiated Emission                 | Part15.109 | PASS |
| Conducted Disturbance             | Part15.107 | PASS |

Remark: The measurement uncertainty is not included in the test result.

### Test Facility

#### 1.3.1 Address of the test laboratory

**Shenzhen General Testing & Inspection Technology Co., Ltd.**

Add: 1F, 2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District, Shenzhen, Guangdong, China.

#### 1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

#### IC Registration No.: 9783A

The 3m alternate test site of Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Aug, 2011.

#### FCC-Registration No.: 214666

Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 214666, Sep 19, 2011

### Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements and is documented in the Shenzhen General Testing & Inspection Technology Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for General Testing & Inspection laboratory is reported:

A. Conducted Measurement:

| Test Site | Method | Measurement Frequency Range | U(dB) | NOTE |
|-----------|--------|-----------------------------|-------|------|
| C01       | ANSI   | 150 KHz ~ 30MHz             | 3.2   |      |

B. Radiated Measurement:

| Test              | Range      | Measurement Uncertainty | Notes |
|-------------------|------------|-------------------------|-------|
| Radiated Emission | 30~1000MHz | 4.7 dB                  | (1)   |
| Radiated Emission | 1~18GHz    | 5.0 dB                  | (1)   |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## GENERAL INFORMATION

### Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

|                     |        |
|---------------------|--------|
| Normal Temperature: | 25°C   |
| Relative Humidity:  | 55 %   |
| Air Pressure:       | 101KPa |

### General Description of EUT

|                                                                                        |                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                                                                          | 7.0" PAD                                                                                                                                                                                  |
| Model/Type reference:                                                                  | 700P71C                                                                                                                                                                                   |
| Listed Model(s):                                                                       | 700P***, &&700*****<br>(& could be "A-Z" or "a-z", * could be "0-99", "A-Z", "a-z", "-", "/" or blank, means different client code, no impact on Products safety and EMC characteristics) |
| Power supply:                                                                          | DC 3.7V from battery, 2800mAh<br>Model: 347095                                                                                                                                            |
| Adapter1 information:                                                                  | Model: PS06B050K1500UU<br>Input: 100-240VAC, 50/60Hz, 0.25A<br>Output: 5V 1500mA                                                                                                          |
| Adapter2 information:                                                                  | Model: SA69-050150U<br>Input: 100-240VAC, 50/60Hz, 0.3A<br>Output: 5V 1500mA                                                                                                              |
| Adapter3 information:                                                                  | Model: EP29-050150WULZ<br>Input: 100-240VAC, 50/60Hz, 0.35A<br>Output: 5V 1500mA                                                                                                          |
| Hardware version:                                                                      | EM_T8270                                                                                                                                                                                  |
| Software version:                                                                      | X1-US-01                                                                                                                                                                                  |
| The EUT Supports BT2.1+EDR, BT 4.0, WIFI 2.4G-802.11b/g/n(HT20)/N(HT40), GPS function. |                                                                                                                                                                                           |

Note: For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

## Description of Test Modes

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency).

The device was a tablet pc. As the function of the EUT, the operation mode selected to test as follow:

| Test Mode                                                                              | Function          | Description                                      |
|----------------------------------------------------------------------------------------|-------------------|--------------------------------------------------|
| 1                                                                                      | USB Data Transfer | Link PC+ WIFI Idle + BT Idle + GPS RX + Earphone |
| 2                                                                                      | PC Operation      | PC Operation + Adapter1                          |
| 3                                                                                      | PC Operation      | PC Operation + Adapter2                          |
| 4                                                                                      | PC Operation      | PC Operation + Adapter3                          |
| <b>Remark:</b> Link with PC means data application transferred mode between EUT and PC |                   |                                                  |

| Test Item                                                                                      | EUT Configure Mode |
|------------------------------------------------------------------------------------------------|--------------------|
| AC Conducted Emission                                                                          | Mode 1             |
| Radiated Emissions <1GHz                                                                       | Mode 1             |
| Radiated Emissions $\geq$ 1GHz                                                                 | Mode 1             |
| Note1: We tested all test mode, the worse is test mode 1 that represents for this test report. |                    |

## Description of Peripheral during Testing

| No. | Product         | Manufacturer | Serial No.  | Certification |
|-----|-----------------|--------------|-------------|---------------|
| 1   | PC              | Lenovo       | H435        | DOC           |
| 2   | PC Power Supply | Bestec       | ATX-250-12Z | DOC           |
| 3   | Display         | DELL         | U2412M      | DOC           |
| 4   | Printer         | HP           | PJ1008      | DOC           |
| 5   | USB Flash       | TRANSCEND    | TS2GJFV30   | DOC           |
| 6   | Mouse           | DELL         | N889        | DOC           |
| 7   | Keyboard        | DELL         | SK-8185     | DOC           |

## Measurement Instruments List

| Conducted Emission |                   |              |           |            |                  |
|--------------------|-------------------|--------------|-----------|------------|------------------|
| Item               | Test Equipment    | Manufacturer | Model No. | Serial No. | Calibrated until |
| 1                  | LISN              | R&S          | ENV216    | 101112     | Jan. 07, 2016    |
| 2                  | LISN              | R&S          | ENV216    | 101113     | Jan. 07, 2016    |
| 3                  | EMI Test Receiver | R&S          | ESCI      | 100920     | Jan. 07, 2016    |
| 4                  | Cable             | Schwarzbeck  | AK9515E   | 33156      | Jan. 07, 2016    |

| Radiated Emission |                   |              |             |            |                  |
|-------------------|-------------------|--------------|-------------|------------|------------------|
| Item              | Test Equipment    | Manufacturer | Model No.   | Serial No. | Calibrated until |
| 1                 | Log-Bicon Antenna | Schwarzbeck  | CBL6141A    | 4180       | Jan. 07, 2016    |
| 2                 | Spectrum Analyzer | HP           | 8563E       | 02052      | Jan. 07, 2016    |
| 3                 | Horn Antenna      | Schwarzbeck  | BBHA 9120D  | 648        | Jan. 07, 2016    |
| 4                 | Pre-Amplifier     | HP           | 8447D       | 1937A03050 | Jan. 07, 2016    |
| 5                 | Pre-Amplifier     | EMCI         | EMC051835   | 980075     | Jan. 07, 2016    |
| 6                 | EMI Test Receiver | R&S          | ESCI        | 100658     | Jan. 07, 2016    |
| 7                 | Antenna Mast      | UC           | UC3000      | N/A        | N/A              |
| 8                 | Turn Table        | UC           | UC3000      | N/A        | N/A              |
| 9                 | Cable Below 1GHz  | Schwarzbeck  | AK9515E     | 33155      | Jan. 07, 2016    |
| 10                | Cable Above 1GHz  | Hubersuhner  | SUCOFLEX102 | DA1580     | Jan. 07, 2016    |

Note: 1. The Cal. Interval was one year.

# EMC EMISSION TEST

## Conducted Emission Measurement

### LIMIT

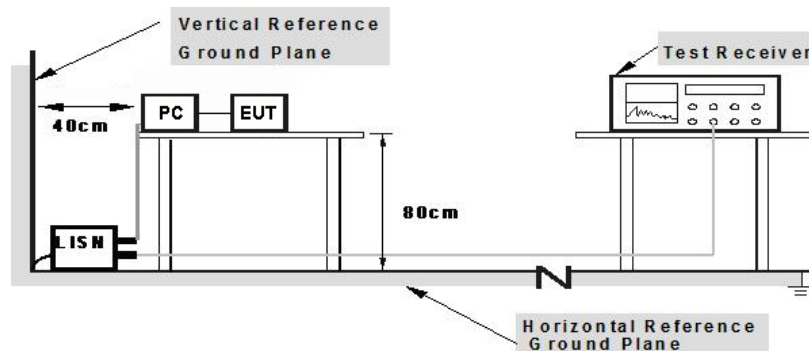
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |           |
|-----------------|----------------|---------|----------------|-----------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average   |
| 0.15 -0.5       | 79.00          | 66.00   | 66 - 56 *      | 56 - 46 * |
| 0.50 -5.0       | 73.00          | 60.00   | 56.00          | 46.00     |
| 5.0 -30.0       | 73.00          | 60.00   | 60.00          | 50.00     |

### TEST PROCEDURE

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4-2014.
- Support equipment, if needed, was placed as per ANSI C63.4-2014.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4-2014.
- An USB Line connection between the EUT and PC which received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- All support equipments received AC power from a second LISN, if any.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.

### TEST SETUP



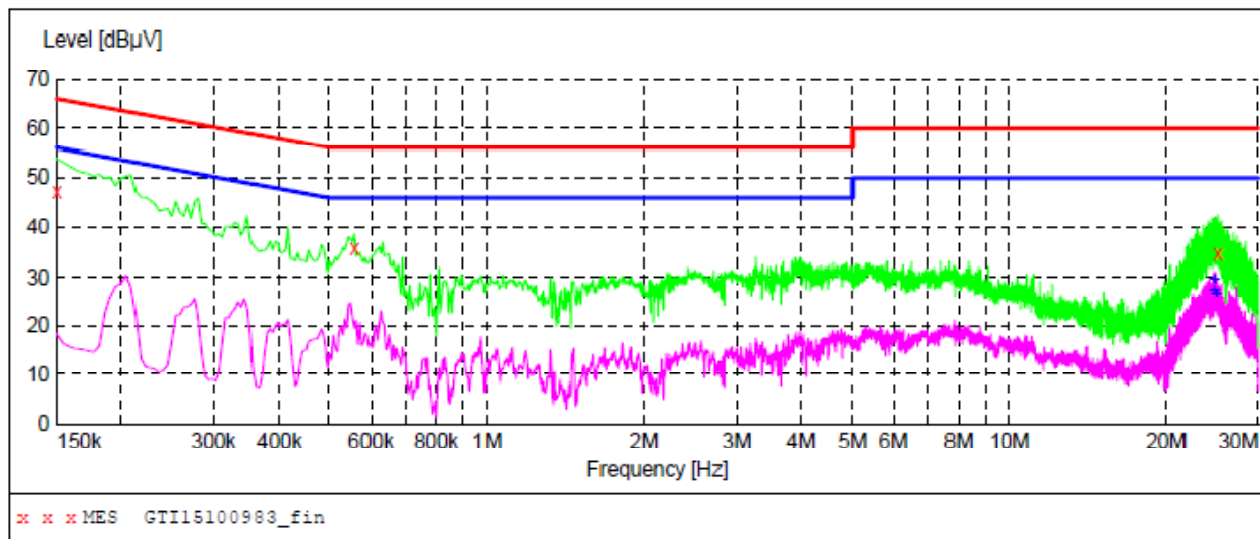
**Note: 1. Support units were connected to second LISN.**  
**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

## TEST RESULTS

|            |        |               |   |
|------------|--------|---------------|---|
| Test mode: | Mode 1 | Polarization: | L |
|------------|--------|---------------|---|

### SCAN TABLE: "Vol (9K-30M) FIN-N"

Short Description: 150K-30M Voltage



### MEASUREMENT RESULT: "GTI15100983\_fin"

10/9/2015 4:15PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.150000         | 47.20         | 9.5          | 66            | 18.8         | QP       | L1   | GND |
| 0.558500         | 35.80         | 9.6          | 56            | 20.2         | QP       | L1   | GND |
| 25.025000        | 34.60         | 10.8         | 60            | 25.4         | QP       | L1   | GND |

### MEASUREMENT RESULT: "GTI15100983\_fin2"

10/9/2015 4:15PM

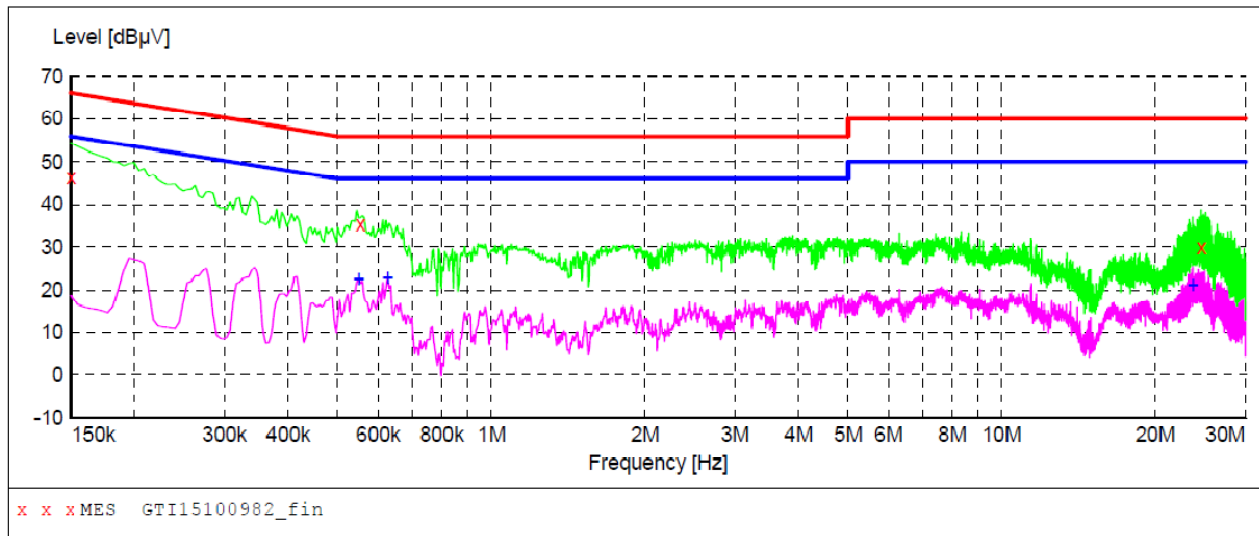
| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 24.593000        | 27.40         | 10.8         | 50            | 22.6         | AV       | L1   | GND |
| 24.638000        | 29.30         | 10.8         | 50            | 20.7         | AV       | L1   | GND |
| 24.818000        | 26.50         | 10.8         | 50            | 23.5         | AV       | L1   | GND |



|            |        |               |   |
|------------|--------|---------------|---|
| Test mode: | Mode 1 | Polarization: | N |
|------------|--------|---------------|---|

**SCAN TABLE: "Vo1(9K-30M)FIN-N"**

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "GTI15100982\_fin"**

10/9/2015 4:11PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.150000         | 46.30         | 9.5          | 66            | 19.7         | QP       | N    | GND |
| 0.554000         | 35.50         | 9.6          | 56            | 20.5         | QP       | N    | GND |
| 24.611000        | 29.90         | 10.8         | 60            | 30.1         | QP       | N    | GND |

**MEASUREMENT RESULT: "GTI15100982\_fin2"**

10/9/2015 4:11PM

| Frequency<br>MHz | Level<br>dBμV | Transd<br>dB | Limit<br>dBμV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.549500         | 22.40         | 9.6          | 46            | 23.6         | AV       | N    | GND |
| 0.626000         | 22.80         | 9.6          | 46            | 23.2         | AV       | N    | GND |
| 23.643500        | 21.00         | 10.8         | 50            | 29.0         | AV       | N    | GND |

## Radiated Emission

### LIMITS

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 3m) |
|-----------------|------------------|-----------------|
|                 | dBuV/m           | dBuV/m          |
| 30 ~ 88         | 39.0             | 40.0            |
| 88 ~ 216        | 43.5             | 43.5            |
| 216 ~ 960       | 46.5             | 46.0            |
| Above 960       | 49.5             | 54.0            |

#### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Class A (at 3m) dBuV/m |     | Class B (at 3m) dBuV/m |     |
|-----------------|------------------------|-----|------------------------|-----|
|                 | Peak                   | Avg | Peak                   | Avg |
| Above 1000      | 80                     | 60  | 74                     | 54  |

Notes:

- 1) The limit for radiated test was performed according to as following:  
CISPR 22/ FCC PART 15B /ICES-003.
- 2) The tighter limit applies at the band edges.
- 3) Emission level (dBuV/m)=20log Emission level (uV/m).

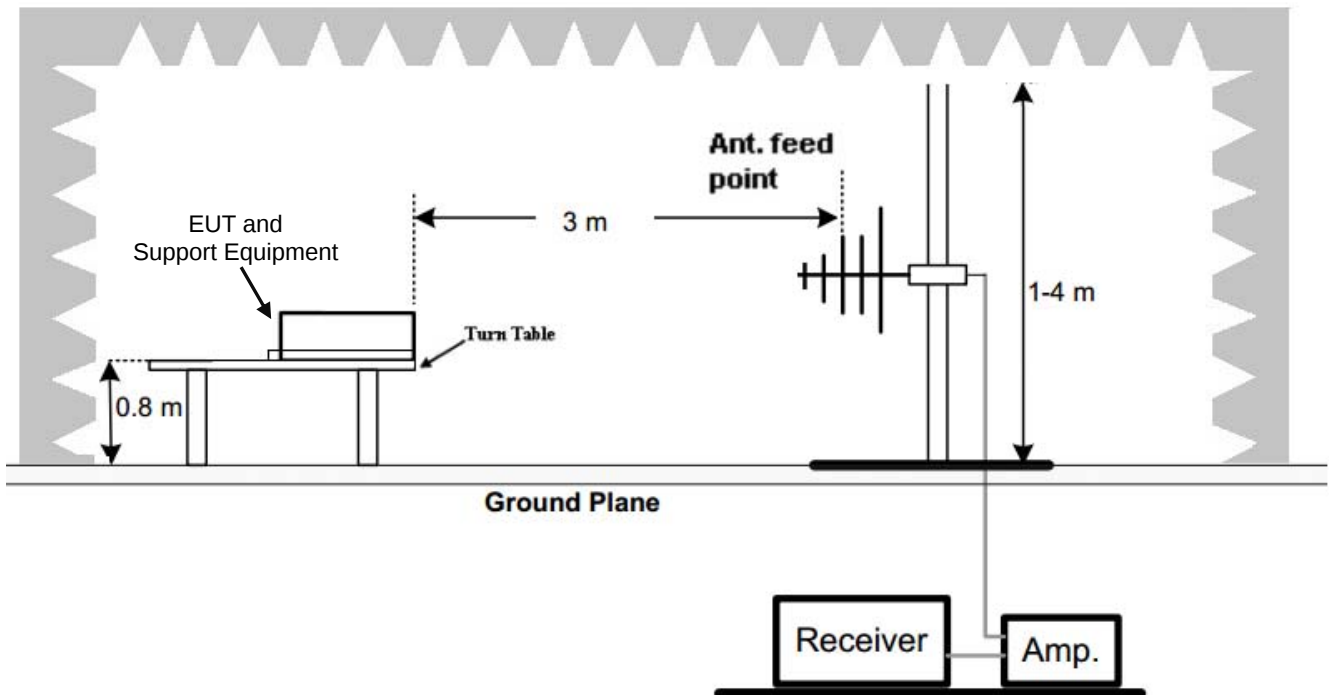
### TEST PROCEDURE

- a) The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP (AV) Limits and then no additional QP Mode measurement performed.

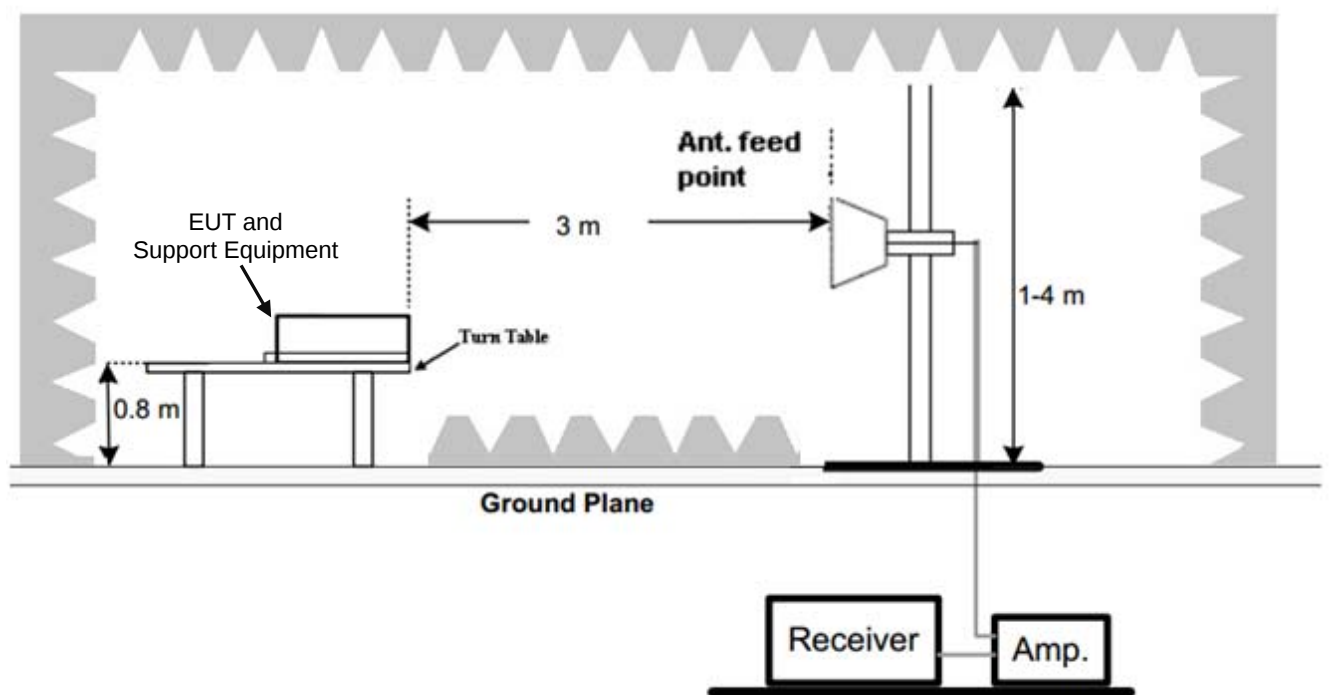
## TEST SETUP

For the actual test configuration, please refer to the related Item –EUT Test Photos.

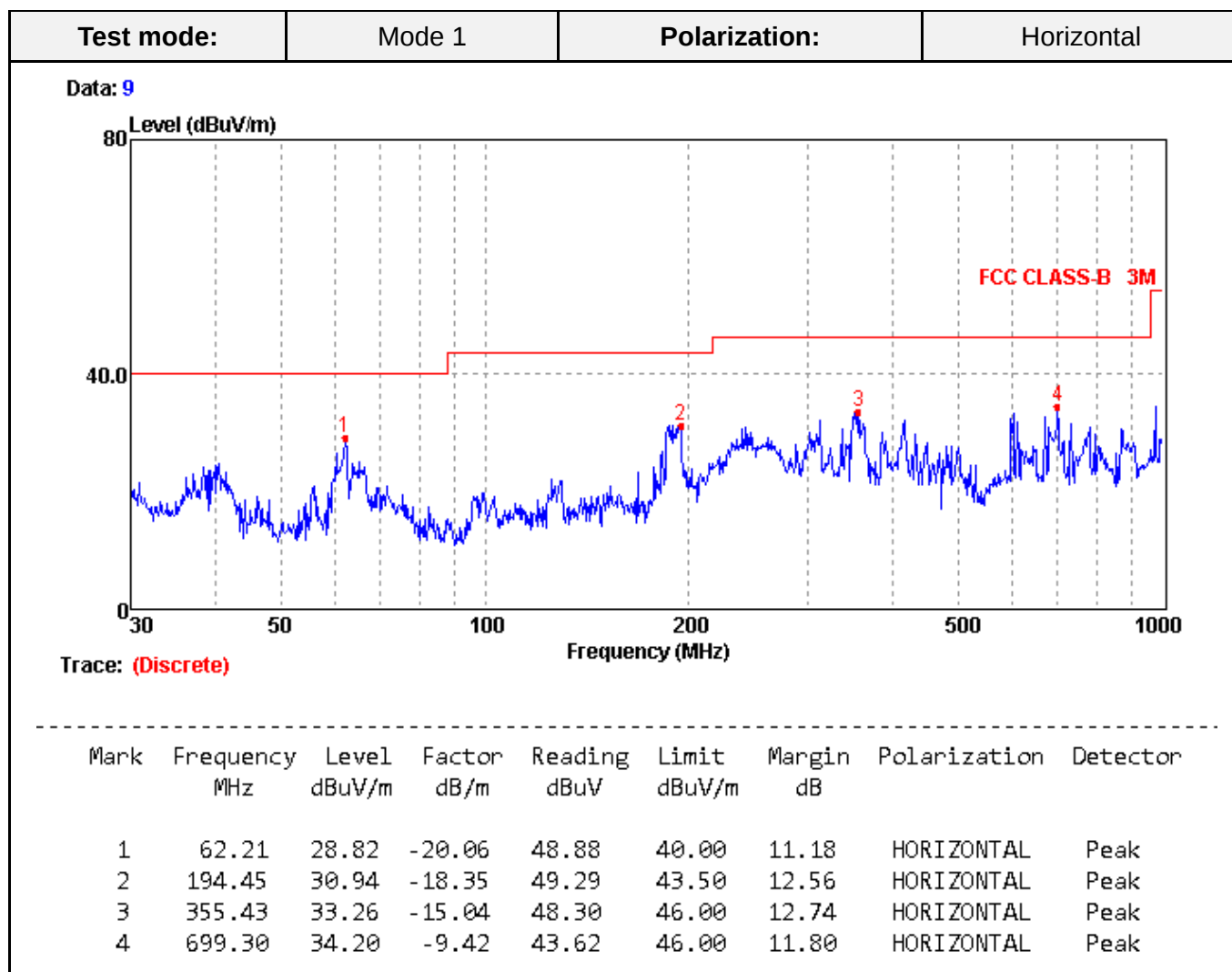
### (A) Radiated Emission Test Set-Up Frequency below 1 GHz



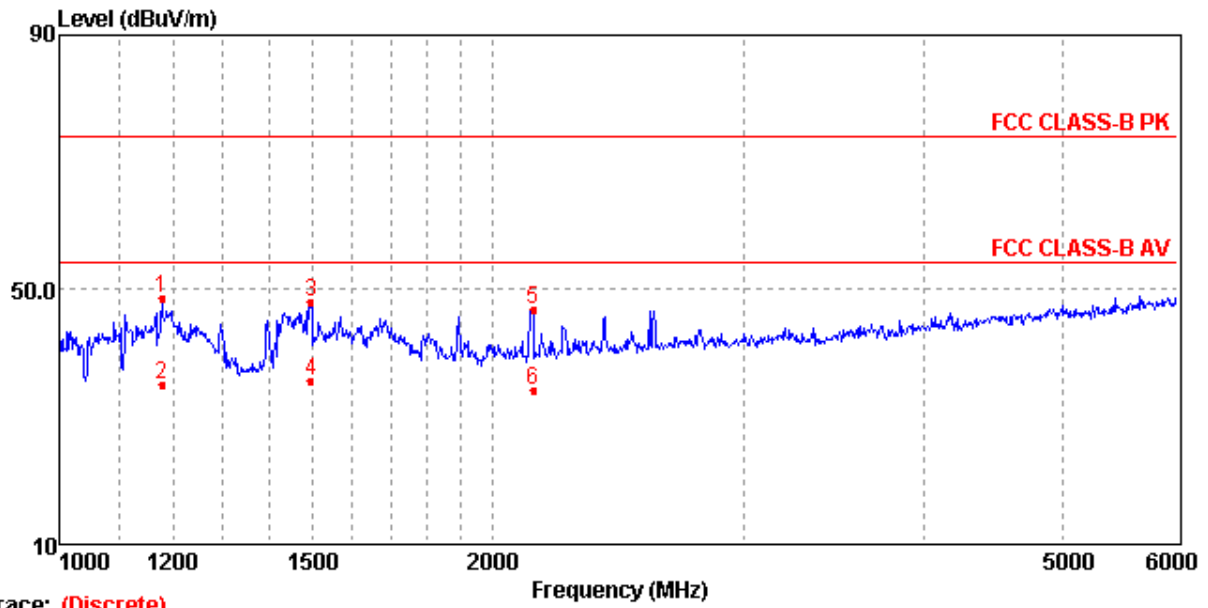
### (B) Radiated Emission Test Set-UP Frequency above 1GHz



## TEST RESULTS

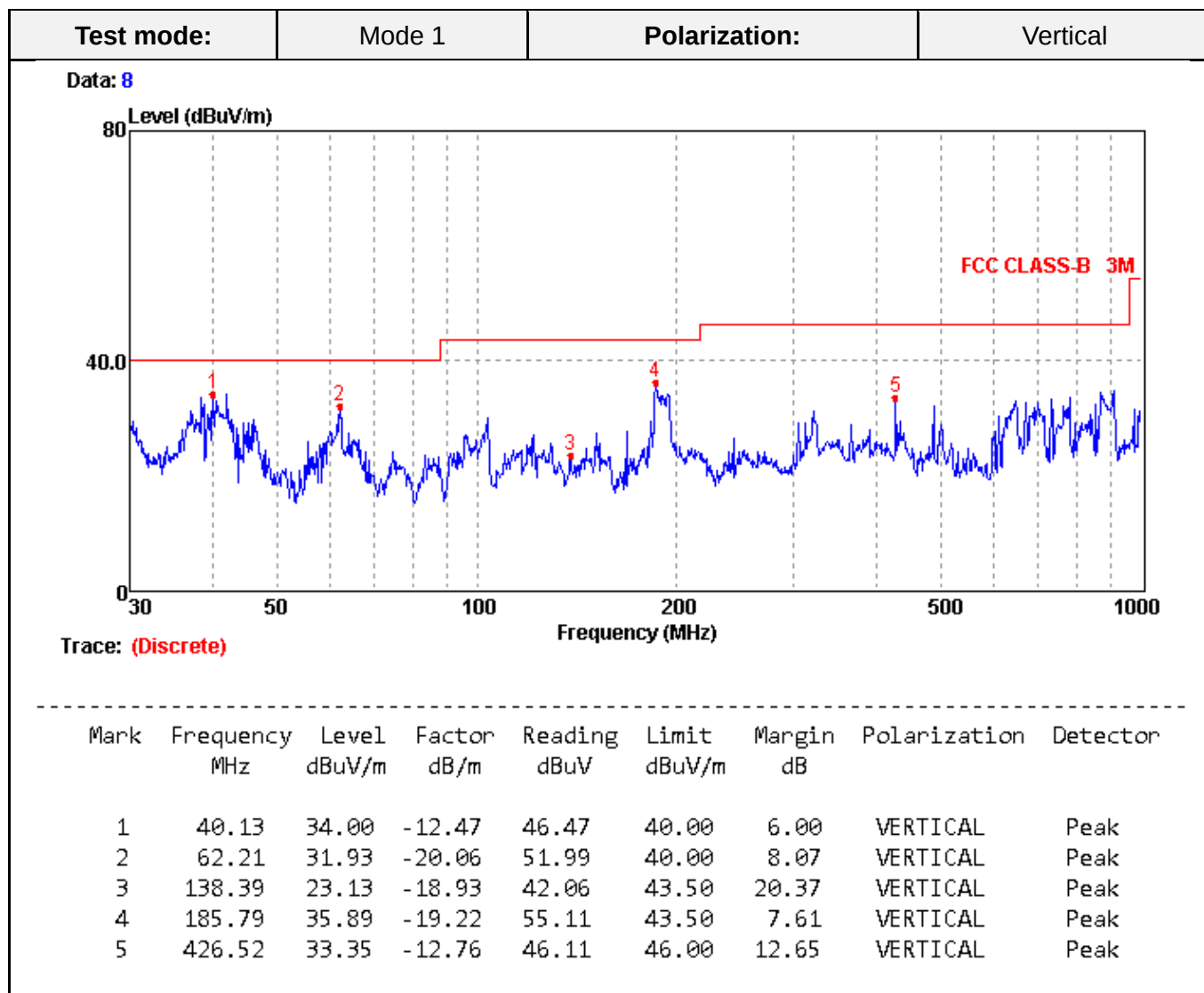


Data: 10

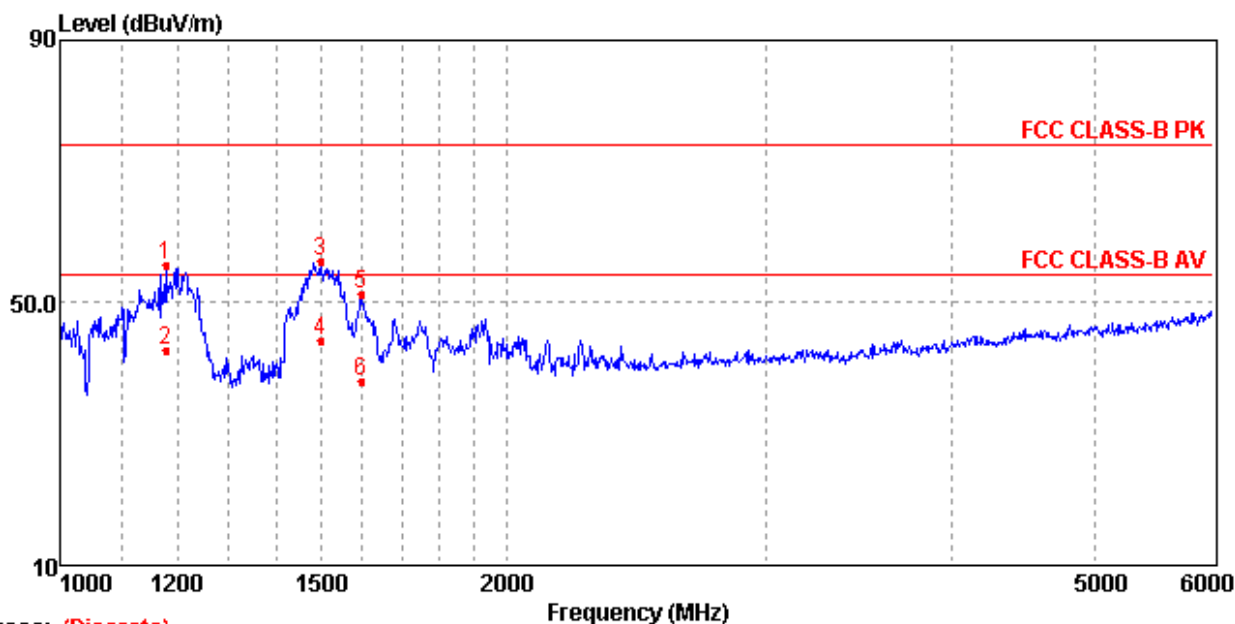


| Mark | Frequency<br>MHz | Level<br>dBuV/m | Factor<br>dB/m | Reading<br>dBuV | Limit<br>dBuV/m | Margin<br>dB | Polarization | Detector |
|------|------------------|-----------------|----------------|-----------------|-----------------|--------------|--------------|----------|
| 1    | 1179.21          | 48.40           | -14.75         | 63.15           | 74.00           | 25.60        | HORIZONTAL   | Peak     |
| 2    | 1179.21          | 34.80           | -14.75         | 49.55           | 54.00           | 19.20        | HORIZONTAL   | Average  |
| 3    | 1496.53          | 47.92           | -13.57         | 61.49           | 74.00           | 26.08        | HORIZONTAL   | Peak     |
| 4    | 1496.53          | 35.20           | -13.57         | 48.77           | 54.00           | 18.80        | HORIZONTAL   | Average  |
| 5    | 2137.65          | 46.66           | -11.39         | 58.05           | 74.00           | 27.34        | HORIZONTAL   | Peak     |
| 6    | 2137.65          | 33.80           | -11.39         | 45.19           | 54.00           | 20.20        | HORIZONTAL   | Average  |

Note: 6GHz-7GHz was not recorded for its signal was very low against the limit.



Data: 11



Trace: (Discrete)

| Mark | Frequency<br>MHz | Level<br>dBuV/m | Factor<br>dB/m | Reading<br>dBuV | Limit<br>dBuV/m | Margin<br>dB | Polarization | Detector |
|------|------------------|-----------------|----------------|-----------------|-----------------|--------------|--------------|----------|
| 1    | 1179.21          | 55.37           | -14.75         | 70.12           | 74.00           | 18.63        | VERTICAL     | Peak     |
| 2    | 1179.21          | 42.30           | -14.75         | 57.05           | 54.00           | 11.70        | VERTICAL     | Average  |
| 3    | 1499.21          | 55.88           | -13.57         | 69.45           | 74.00           | 18.12        | VERTICAL     | Peak     |
| 4    | 1499.21          | 43.80           | -13.57         | 57.37           | 54.00           | 10.20        | VERTICAL     | Average  |
| 5    | 1596.24          | 51.08           | -13.55         | 64.63           | 74.00           | 22.92        | VERTICAL     | Peak     |
| 6    | 1596.24          | 37.60           | -13.55         | 51.15           | 54.00           | 16.40        | VERTICAL     | Average  |

Note: 6GHz-7GHz was not recorded for its signal was very low against the limit.

## EUT TEST PHOTO

Conducted Emission



Radiated Emission below 1GHz



Radiated Emission above 1GHz





## PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please reference to the test report No.: GTI20150544F-1

\*\*\*\*\*THE END\*\*\*\*\*