

## FCC Test Report

**Report No.:** RF200326C09-4

**FCC ID:** H8NTN230A2

**Test Model:** TN230A2

**Received Date:** Mar. 26, 2020

**Test Date:** Apr. 27 ~ Apr. 28, 2020

**Issued Date:** May 08, 2020

**Applicant:** ASKEY COMPUTER CORP.

**Address:** 10F, NO.119, JIANKANG RD., ZHONGHE DIST., NEW TAIPEI CITY 23585,  
TAIWAN, R.O.C.

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, Taiwan

**FCC Registration /**  
**Designation Number:** 788550 / TW0003



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## Table of Contents

|                                                                  |           |
|------------------------------------------------------------------|-----------|
| <b>Release Control Record .....</b>                              | <b>3</b>  |
| <b>1 Certificate of Conformity .....</b>                         | <b>4</b>  |
| <b>2 Summary of Test Results.....</b>                            | <b>5</b>  |
| 2.1 Measurement Uncertainty.....                                 | 5         |
| 2.2 Modification Record .....                                    | 5         |
| <b>3 General Information .....</b>                               | <b>6</b>  |
| 3.1 General Description of EUT .....                             | 6         |
| 3.2 Description of Test Modes.....                               | 7         |
| 3.2.1 Test Mode Applicability and Tested Channel Detail.....     | 7         |
| 3.3 Description of Support Units .....                           | 9         |
| 3.3.1 Configuration of System under Test .....                   | 9         |
| 3.4 General Description of Applied Standards and references..... | 10        |
| <b>4 Test Types and Results .....</b>                            | <b>11</b> |
| 4.1 Radiated Emission Measurement.....                           | 11        |
| 4.1.1 Limits of Radiated Emission Measurement .....              | 11        |
| 4.1.2 Test Instruments .....                                     | 12        |
| 4.1.3 Test Procedures.....                                       | 13        |
| 4.1.4 Deviation from Test Standard .....                         | 13        |
| 4.1.5 Test Set Up .....                                          | 14        |
| 4.1.6 EUT Operating Conditions.....                              | 14        |
| 4.1.7 Test Results .....                                         | 15        |
| 4.2 Conducted Emission Measurement.....                          | 47        |
| 4.2.1 Limits of Conducted Emission Measurement .....             | 47        |
| 4.2.2 Test Instruments .....                                     | 47        |
| 4.2.3 Test Procedures.....                                       | 48        |
| 4.2.4 Deviation from Test Standard .....                         | 48        |
| 4.2.5 Test Setup.....                                            | 48        |
| 4.2.6 EUT Operating Conditions.....                              | 48        |
| 4.2.7 Test Results .....                                         | 49        |
| 4.3 Frequency Stability .....                                    | 65        |
| 4.3.1 Limits of Frequency Stability Measurement .....            | 65        |
| 4.3.2 Test Setup.....                                            | 65        |
| 4.3.3 Test Instruments .....                                     | 65        |
| 4.3.4 Test Procedure .....                                       | 65        |
| 4.3.5 Deviation from Test Standard .....                         | 65        |
| 4.3.6 EUT Operating Conditions.....                              | 65        |
| 4.3.7 Test Results .....                                         | 66        |
| 4.4 20 dB Bandwidth.....                                         | 67        |
| 4.4.1 Limits of 20 dB Bandwidth Measurement.....                 | 67        |
| 4.4.2 Test Setup.....                                            | 67        |
| 4.4.3 Test Instruments .....                                     | 67        |
| 4.4.4 Test Procedures.....                                       | 67        |
| 4.4.5 Deviation from Test Standard .....                         | 67        |
| 4.4.6 EUT Operating Conditions.....                              | 67        |
| 4.4.7 Test Results .....                                         | 68        |
| <b>5 Pictures of Test Arrangements.....</b>                      | <b>72</b> |
| <b>Appendix – Information of the Testing Laboratories .....</b>  | <b>73</b> |

### Release Control Record

| Issue No.     | Description      | Date Issued  |
|---------------|------------------|--------------|
| RF200326C09-4 | Original Release | May 08, 2020 |

## 1 Certificate of Conformity

**Product:** Smart watch

**Brand:** TURBONET

**Test Model:** TN230A2

**Sample Status:** Engineering Sample

**Applicant:** ASKEY COMPUTER CORP.

**Test Date:** Apr. 27 ~ Apr. 28, 2020

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.225)

47 CFR FCC Part 15, Subpart C (Section 15.215)

ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :**



**Date:** May 08, 2020

Gina Liu / Specialist

**Approved by :**



**Date:** May 08, 2020

Dylan Chiou / Senior Project Engineer

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.225, 15.215) |                                                                                              |        |                                                                                    |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|
| FCC Clause                                             | Test Item                                                                                    | Result | Remarks                                                                            |
| 15.207                                                 | Conducted emission test                                                                      | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -5 dB at 13.562 MHz.   |
| 15.225 (a)                                             | The field strength of any emissions within the band 13.553-13.567 MHz                        | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -66.1 dB at 13.56 MHz. |
| 15.225 (b)                                             | The field strength of any emissions within the bands 13.410-13.553 MHz and 13.567-13.710 MHz | Pass   | Meet the requirement of limit.                                                     |
| 15.225 (c)                                             | The field strength of any emissions within the bands 13.110-13.410 MHz and 13.710-14.010 MHz | Pass   | Meet the requirement of limit.                                                     |
| 15.225 (d)                                             | The field strength of any emissions appearing outside of the 13.110-14.010 MHz band          | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -5.8 dB at 130.80 MHz. |
| 15.225 (e)                                             | The frequency tolerance                                                                      | Pass   | Meet the requirement of limit.                                                     |
| 15.215 (c)                                             | 20 dB Bandwidth                                                                              | Pass   | Meet the requirement of limit.                                                     |
| 15.203                                                 | Antenna Requirement                                                                          | Pass   | No antenna connector is used.                                                      |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                        | Frequency          | Expanded Uncertainty (k=2) (±) |
|------------------------------------|--------------------|--------------------------------|
| Conducted Emissions at mains ports | 150 kHz ~ 30 MHz   | 2.79 dB                        |
| Radiated Emissions up to 1 GHz     | 9 kHz ~ 30 MHz     | 3.04 dB                        |
|                                    | 30 MHz ~ 200 MHz   | 2.93 dB                        |
|                                    | 200 MHz ~ 1000 MHz | 2.95 dB                        |

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                                 |                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Product</b>                  | Smart watch                                                                                        |
| <b>Brand</b>                    | TURBONET                                                                                           |
| <b>Test Model</b>               | TN230A2                                                                                            |
| <b>Status of EUT</b>            | Engineering Sample                                                                                 |
| <b>Power Supply Rating</b>      | 5.35 Vdc (adapter)<br>5.0 Vdc (host equipment)<br>3.7 Vdc (Li-ion battery)                         |
| <b>Modulation Type</b>          | ASK                                                                                                |
| <b>Data Rate</b>                | Type A: 106 kbit/s<br>Type B: 106 kbit/s<br>Type F: 212 kbit/s, 424 kbit/s<br>Type V: 26.48 kbit/s |
| <b>Operating Frequency</b>      | 13.56 MHz                                                                                          |
| <b>Field Strength (Maximum)</b> | 57.9 dBuV/m (3m)                                                                                   |
| <b>Antenna Type</b>             | Loop Antenna                                                                                       |
| <b>Accessory Device</b>         | Refer to Note                                                                                      |
| <b>Data Cable Supplied</b>      | 0.95m shielded USB cable without core                                                              |

Note:

1. There're 3 configurations for the EUT listed as below.

| Configuration | Brand    | Model   | Difference                                           |
|---------------|----------|---------|------------------------------------------------------|
| 1             | TURBONET | TN230A2 | All function                                         |
| 2             |          |         | Without heartbeat detection and camera function      |
| 3             |          |         | Without heartbeat detection but with camera function |

\*The Configuration 1 was chosen for final test.

2. The following accessories were for the End-product.

| Product   | Brand                   | Model          | Description                                                 |
|-----------|-------------------------|----------------|-------------------------------------------------------------|
| Adapter   | Sunny ELECTRONICS CORP. | SYS1561-1105-1 | I/P: 100-240 Vac, 50-60 Hz, 1.0 A MAX<br>O/P: 5.35 Vdc, 2 A |
| Battery   | ETI                     | BP19-002750    | 3.7 Vdc, 800 mAh                                            |
| USB Cable | N/A                     | N/A            | 0.95m shielded USB cable without core                       |

3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

### 3.2 Description of Test Modes

One channel was provided to this EUT:

| Channel | Frequency (MHz) |
|---------|-----------------|
| 1       | 13.56           |

#### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To |     |    |    | Description       |
|--------------------|---------------|-----|----|----|-------------------|
|                    | RE            | PLC | FS | EB |                   |
| A                  | √             | √   | √  | √  | EUT with Adapter  |
| B                  | -             | √   | -  | -  | EUT with Notebook |

Where

**RE:** Radiated Emission

**PLC:** Power Line Conducted Emission

**FS:** Frequency Stability

**EB:** 20 dB Bandwidth measurement

**NOTE:** The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

**NOTE:** "-" means no effect.

#### Radiated Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Axis |
|--------------------|-------------------|----------------|-----------------|------|
| A                  | 1                 | 1              | ASK             | Z    |

#### Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Axis |
|--------------------|-------------------|----------------|-----------------|------|
| A, B               | 1                 | 1              | ASK             | Z    |

#### Frequency Stability:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Axis |
|--------------------|-------------------|----------------|-----------------|------|
| A                  | 1                 | 1              | ASK             | Z    |

### **20 dB Bandwidth:**

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Axis |
|--------------------|-------------------|----------------|-----------------|------|
| A                  | 1                 | 1              | ASK             | Z    |

### **Test Condition:**

| Applicable To | Environmental Conditions | Input Power    | Tested By           |
|---------------|--------------------------|----------------|---------------------|
| RE            | 25 deg. C, 65 % RH       | 120 Vac, 60 Hz | Titan Hsu, Luis Lee |
| FS            | 25 deg. C, 65 % RH       | 3.7 Vdc        | Titan Hsu           |
| PLC           | 25 deg. C, 65 % RH       | 120 Vac, 60 Hz | Adair Peng          |
| EB            | 25 deg. C, 68 % RH       | 3.7 Vdc        | Titan Hsu           |



### 3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ID | Product  | Brand  | Model No. | Serial No. | FCC ID | Remarks         |
|----|----------|--------|-----------|------------|--------|-----------------|
| A. | Notebook | Lenovo | 80Q7      | PF0KUGU6   | N/A    | Provided by Lab |

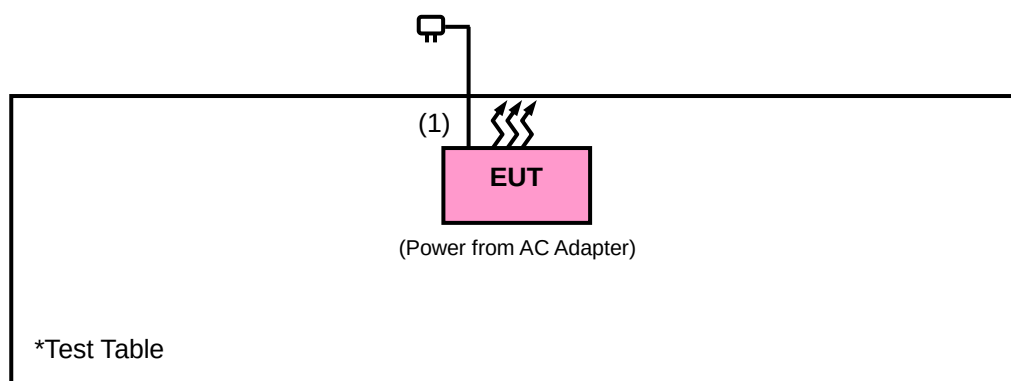
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as communication partner to transfer data.

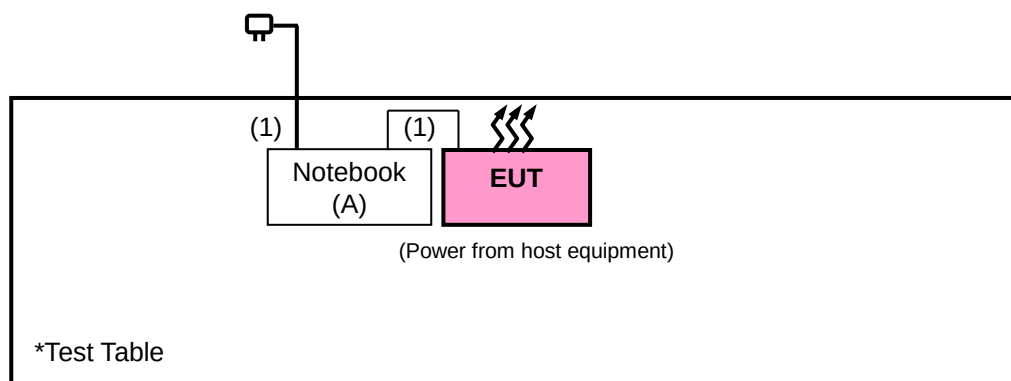
| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks              |
|----|--------------------|------|------------|--------------------|--------------|----------------------|
| 1. | USB Cable          | 1    | 0.95       | Y                  | 0            | Accessory of the EUT |

#### 3.3.1 Configuration of System under Test

##### Mode A



##### Mode B



### 3.4 General Description of Applied Standards and references

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

**FCC Part 15, Subpart C (15.225)**

**FCC Part 15, Subpart C (15.215)**

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance :

KDB 414788 D01 Radiated Test Site v01r01

All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Radiated Emission Measurement

#### 4.1.1 Limits of Radiated Emission Measurement

- a. The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- b. Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- c. Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- d. The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209 as below table:

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490     | 2400/F (kHz)                      | 300                           |
| 0.490 ~ 1.705     | 24000/F (kHz)                     | 30                            |
| 1.705 ~ 30.0      | 30                                | 30                            |
| 30 ~ 88           | 100                               | 3                             |
| 88 ~ 216          | 150                               | 3                             |
| 216 ~ 960         | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

#### 4.1.2 Test Instruments

| Description & Manufacturer                              | Model No.                    | Serial No.   | Date of Calibration | Due Date of Calibration |
|---------------------------------------------------------|------------------------------|--------------|---------------------|-------------------------|
| Test Receiver<br>ROHDE & SCHWARZ                        | ESIB7                        | 100187       | May 30, 2019        | May 29, 2020            |
| Spectrum Analyzer<br>ROHDE & SCHWARZ                    | FSP40                        | 100269       | Jun. 10, 2019       | Jun. 09, 2020           |
| BILOG Antenna<br>SCHWARZBECK                            | VULB9168                     | 9168-171     | Nov. 11, 2019       | Nov. 10, 2020           |
| Loop Antenna<br>TESEQ                                   | HLA 6121                     | 45745        | Jul. 01, 2019       | Jun. 30, 2020           |
| Preamplifier<br>Agilent<br>(Below 1GHz)                 | 8447D                        | 2944A10738   | Aug. 20, 2019       | Aug. 19, 2020           |
| RF Coaxial Cable<br>WOKEN<br>With 5dB PAD               | 8D-FB                        | Cable-CH3-01 | Aug. 20, 2019       | Aug. 19, 2020           |
| Software<br>BV ADT                                      | ADT_Radiated_<br>V7.6.15.9.5 | NA           | NA                  | NA                      |
| Antenna Tower<br>inn-co GmbH                            | MA 4000                      | 013303       | NA                  | NA                      |
| Antenna Tower Controller<br>BV ADT                      | AT100                        | AT93021702   | NA                  | NA                      |
| Turn Table<br>BV ADT                                    | TT100                        | TT93021702   | NA                  | NA                      |
| Turn Table Controller<br>BV ADT                         | SC100                        | SC93021702   | NA                  | NA                      |
| Boresight Antenna Fixture                               | FBA-01                       | FBA-SIP01    | NA                  | NA                      |
| STANDARD<br>TEMPERATURE<br>& HUMIDITY CHAMBER<br>TERCHY | MHU-225AU                    | 920842       | May 31, 2019        | May 30, 2020            |
| DC power supply<br>Keysight                             | U8002A                       | MY56330015   | NA                  | NA                      |
| Digital Multimeter<br>Fluke                             | 87-III                       | 70360742     | Jun. 27, 2019       | Jun. 26, 2020           |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. The test was performed in HwaYa Chamber 3.

#### 4.1.3 Test Procedures

##### **For Radiated Emission below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9kHz-90kHz, 110Hz-490kHz) set to average detect function.

##### **Note:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

##### **For Radiated Emission above 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

##### **Note:**

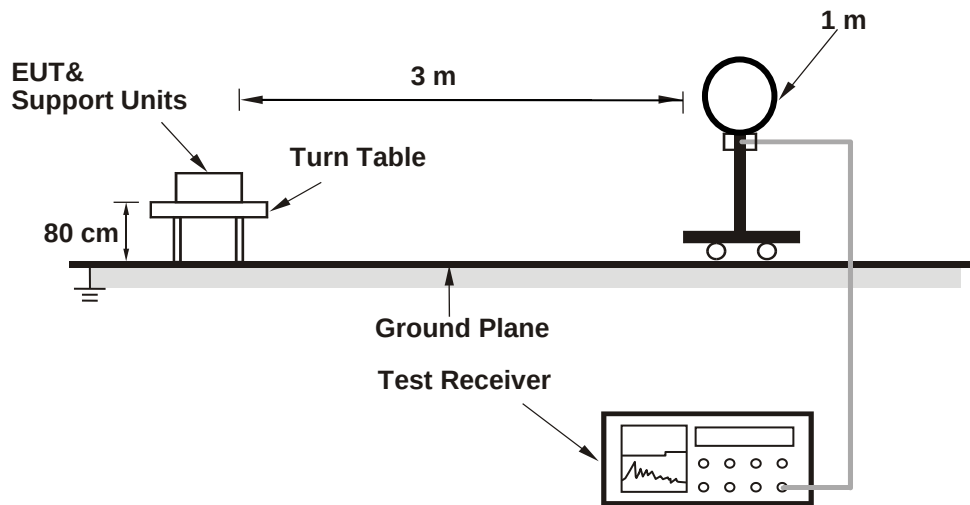
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98 %) or 10 Hz (Duty cycle  $\geq 98$  %) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Deviation from Test Standard

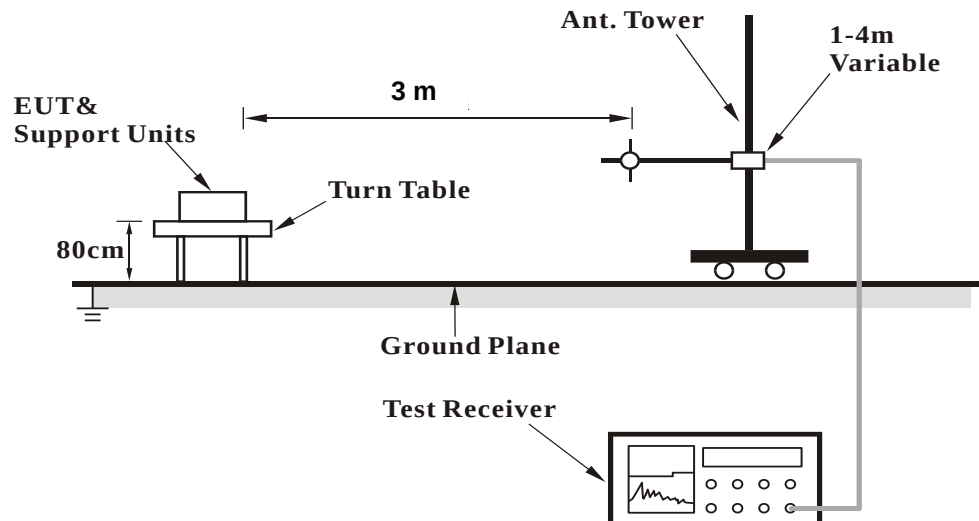
No deviation.

#### 4.1.5 Test Set Up

##### <Radiated Emission below 30 MHz>



##### <Radiated Emission 30 MHz to 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### KDB 414788 OFS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.
- Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

#### 4.1.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

#### 4.1.7 Test Results

##### Type A

| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

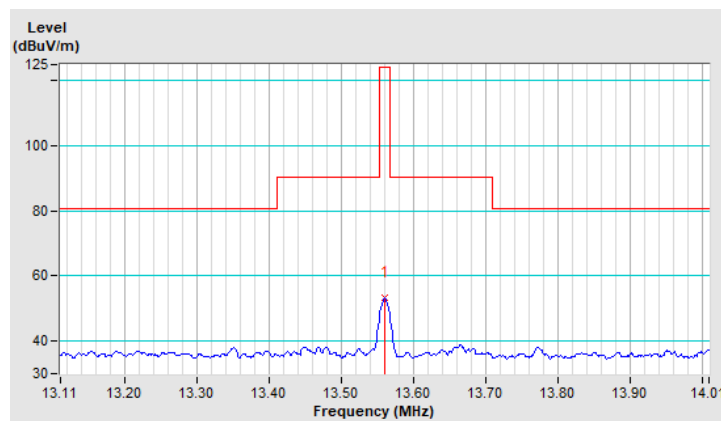
| Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                           | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                             | 13.56       | 53.2 QP                 | 124.0          | -70.8       | 1.00 V             | 162                  | 31.4             | 21.8                     |

- Remarks:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} & 30\text{m} \\
 &= 84\text{dBuV/m} & 30\text{m} \\
 &= 84+20\log(30/3)^2 & 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

| Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                  | 13.56       | 51.0 QP                 | 124.0          | -73.0       | 1.00 V             | 262                  | 29.2             | 21.8                     |

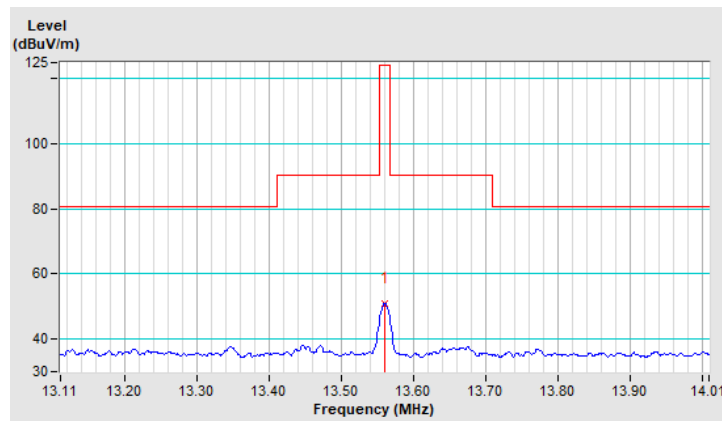
Remarks:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

13.56MHz = 15848uV/m                      30m  
               = 84dBuV/m                        30m  
               =  $84+20\log(30/3)^2$             3m  
               = 124dBuV/m





| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

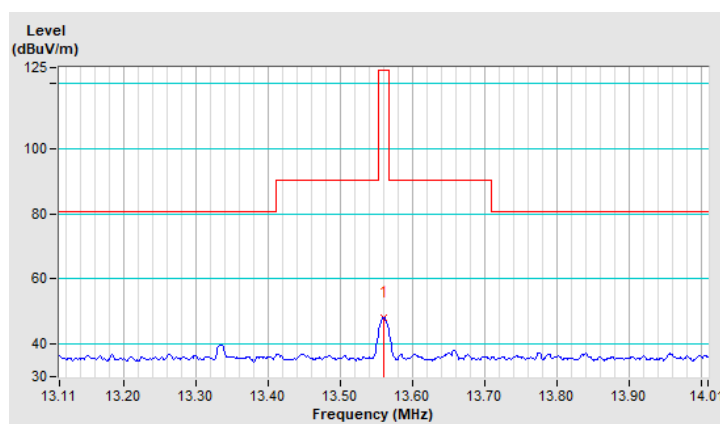
| Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                    | 13.56       | 48.3 QP                 | 124.0          | -75.7       | 1.00 V             | 147                  | 26.5             | 21.8                     |

- Remarks:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} & 30\text{m} \\
 &= 84\text{dBuV/m} & 30\text{m} \\
 &= 84+20\log(30/3)^2 & 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$

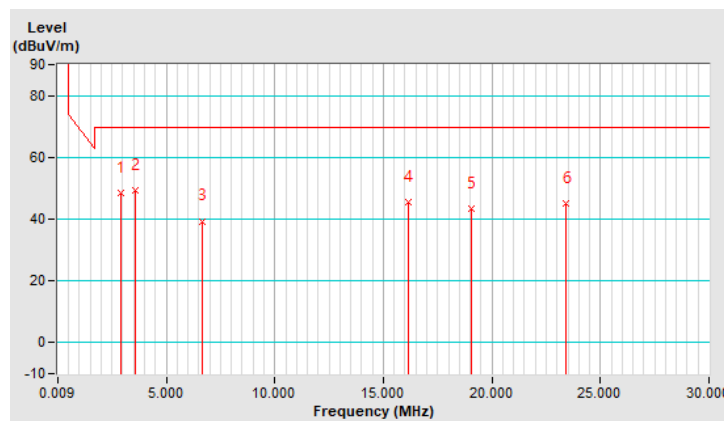


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                           | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                             | 2.92        | 48.6 QP                 | 69.5           | -20.9       | 1.00 V             | 154                  | 28.7             | 19.9                     |
| 2                                                             | 3.57        | 49.5 QP                 | 69.5           | -20.0       | 1.00 V             | 299                  | 29.5             | 20.0                     |
| 3                                                             | 6.66        | 39.4 QP                 | 69.5           | -30.1       | 1.00 V             | 260                  | 18.8             | 20.6                     |
| 4                                                             | 16.18       | 45.5 QP                 | 69.5           | -24.0       | 1.00 V             | 16                   | 23.6             | 21.9                     |
| 5                                                             | 19.05       | 43.6 QP                 | 69.5           | -25.9       | 1.00 V             | 105                  | 21.6             | 22.0                     |
| 6                                                             | 23.44       | 44.9 QP                 | 69.5           | -24.6       | 1.00 V             | 7                    | 22.8             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

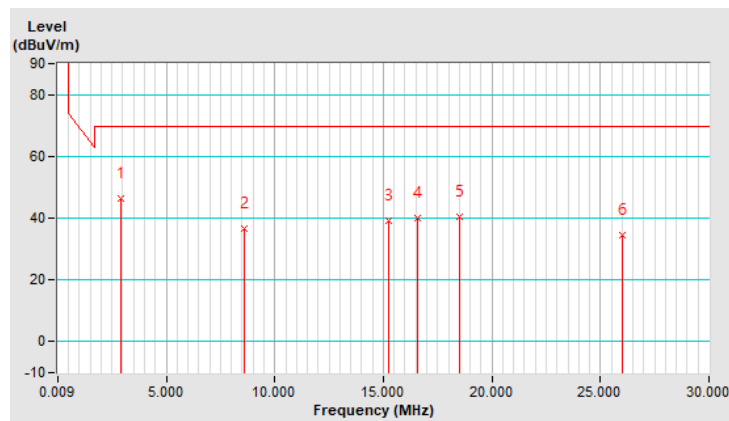


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                  | 2.92        | 46.5 QP                 | 69.5           | -23.0       | 1.00 V             | 81                   | 26.6             | 19.9                     |
| 2                                                                  | 8.57        | 36.6 QP                 | 69.5           | -32.9       | 1.00 V             | 214                  | 15.4             | 21.2                     |
| 3                                                                  | 15.22       | 39.1 QP                 | 69.5           | -30.4       | 1.00 V             | 344                  | 17.2             | 21.9                     |
| 4                                                                  | 16.57       | 40.2 QP                 | 69.5           | -29.3       | 1.00 V             | 143                  | 18.3             | 21.9                     |
| 5                                                                  | 18.53       | 40.5 QP                 | 69.5           | -29.0       | 1.00 V             | 45                   | 18.5             | 22.0                     |
| 6                                                                  | 26.00       | 34.6 QP                 | 69.5           | -34.9       | 1.00 V             | 244                  | 12.5             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

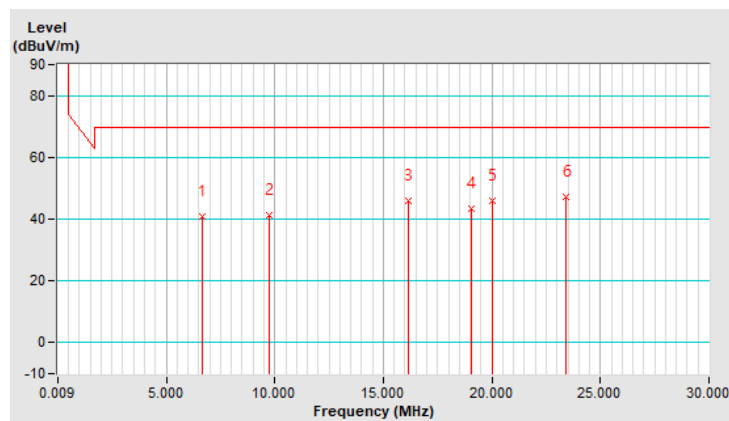


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 67% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                    | 6.66        | 40.9 QP                 | 69.5           | -28.6       | 1.00 V             | 224                  | 20.3             | 20.6                     |
| 2                                                                    | 9.75        | 41.4 QP                 | 69.5           | -28.1       | 1.00 V             | 323                  | 19.8             | 21.6                     |
| 3                                                                    | 16.18       | 46.1 QP                 | 69.5           | -23.4       | 1.00 V             | 230                  | 24.2             | 21.9                     |
| 4                                                                    | 19.05       | 43.5 QP                 | 69.5           | -26.0       | 1.00 V             | 268                  | 21.5             | 22.0                     |
| 5                                                                    | 20.00       | 45.8 QP                 | 69.5           | -23.7       | 1.00 V             | 230                  | 23.7             | 22.1                     |
| 6                                                                    | 23.44       | 47.4 QP                 | 69.5           | -22.1       | 1.00 V             | 65                   | 25.3             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

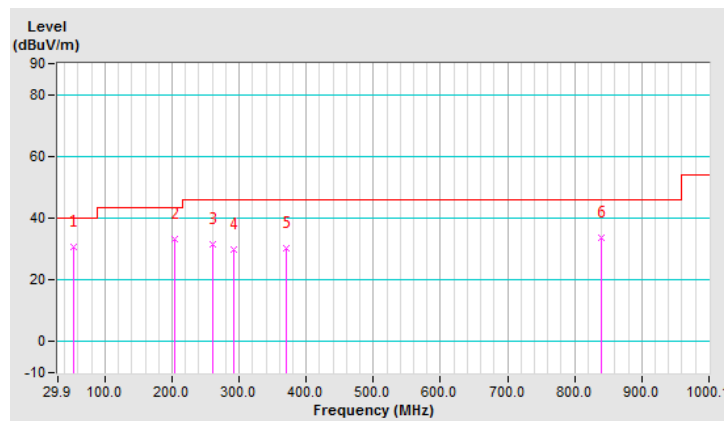


| EUT Test Condition       |                   | Measurement Detail |               |
|--------------------------|-------------------|--------------------|---------------|
| Channel                  | Channel 1         | Frequency Range    | Below 1000MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak    |
| Environmental Conditions | 25 deg. C, 70% RH | Tested By          | Luis Lee      |

| Antenna Polarity & Test Distance: Horizontal At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 53.18       | 30.5 QP                 | 40.0           | -9.5        | 1.49 H             | 45                   | 38.9             | -8.4                     |
| 2                                                  | 204.54      | 33.2 QP                 | 43.5           | -10.3       | 1.49 H             | 45                   | 44.7             | -11.5                    |
| 3                                                  | 260.81      | 31.6 QP                 | 46.0           | -14.4       | 1.01 H             | 120                  | 40.4             | -8.8                     |
| 4                                                  | 291.85      | 30.0 QP                 | 46.0           | -16.0       | 1.49 H             | 45                   | 37.5             | -7.5                     |
| 5                                                  | 369.47      | 30.2 QP                 | 46.0           | -15.8       | 1.01 H             | 140                  | 35.7             | -5.5                     |
| 6                                                  | 839.05      | 33.6 QP                 | 46.0           | -12.4       | 1.01 H             | 56                   | 27.8             | 5.8                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

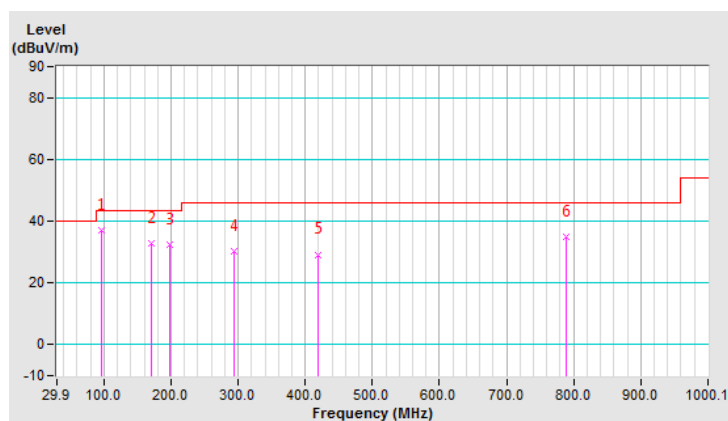


| EUT Test Condition       |                   | Measurement Detail |               |
|--------------------------|-------------------|--------------------|---------------|
| Channel                  | Channel 1         | Frequency Range    | Below 1000MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak    |
| Environmental Conditions | 25 deg. C, 70% RH | Tested By          | Luis Lee      |

| Antenna Polarity & Test Distance: Vertical At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                              | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                | 95.87       | 37.0 QP                 | 43.5           | -6.5        | 1.49 V             | 117                  | 50.7             | -13.7                    |
| 2                                                | 171.55      | 32.7 QP                 | 43.5           | -10.8       | 1.49 V             | 130                  | 41.9             | -9.2                     |
| 3                                                | 198.71      | 32.2 QP                 | 43.5           | -11.3       | 1.49 V             | 122                  | 43.6             | -11.4                    |
| 4                                                | 293.79      | 30.1 QP                 | 46.0           | -15.9       | 1.49 V             | 119                  | 37.6             | -7.5                     |
| 5                                                | 419.92      | 29.2 QP                 | 46.0           | -16.8       | 1.49 V             | 122                  | 33.5             | -4.3                     |
| 6                                                | 788.60      | 34.9 QP                 | 46.0           | -11.1       | 1.00 V             | 6                    | 30.1             | 4.8                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



## Type B

| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

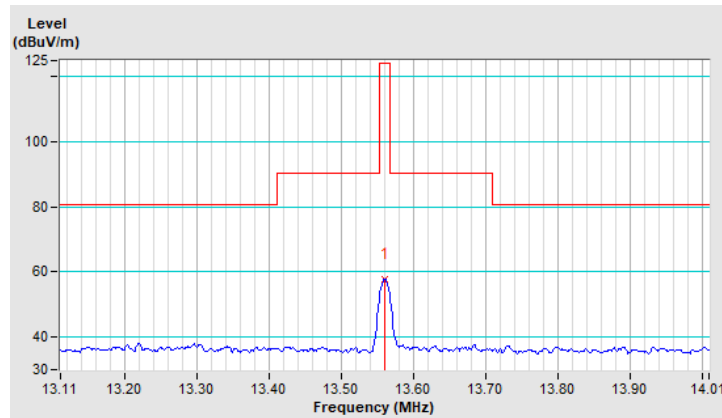
| Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                           | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                             | 13.56       | 57.9 QP                 | 124.0          | -66.1       | 1.00 V             | 181                  | 36.1             | 21.8                     |

- Remarks:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} & 30\text{m} \\
 &= 84\text{dBuV/m} & 30\text{m} \\
 &= 84+20\log(30/3)^2 & 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

| Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                  | 13.56       | 54.6 QP                 | 124.0          | -69.4       | 1.00 V             | 264                  | 32.8             | 21.8                     |

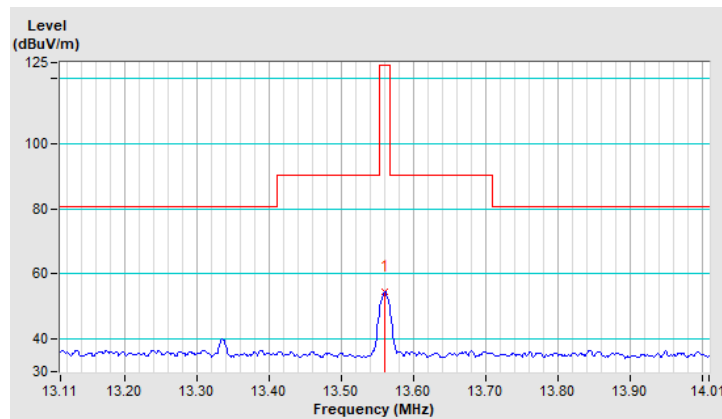
Remarks:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

13.56MHz = 15848uV/m                      30m  
               = 84dBuV/m                        30m  
               =  $84+20\log(30/3)^2$             3m  
               = 124dBuV/m





| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

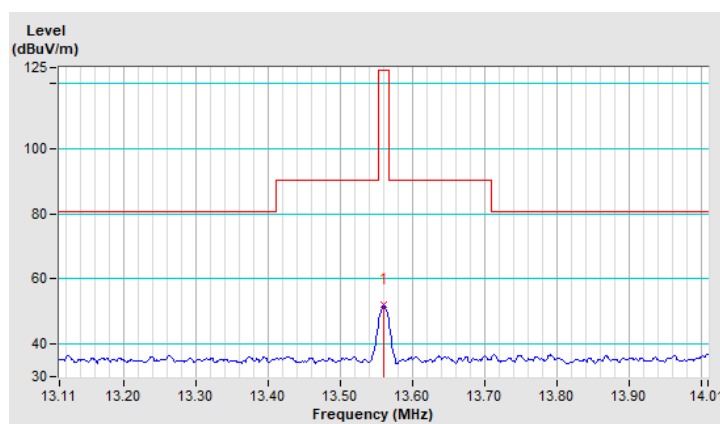
| Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                    | 13.56       | 52.0 QP                 | 124.0          | -72.0       | 1.00 V             | 187                  | 30.2             | 21.8                     |

- Remarks:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} & 30\text{m} \\
 &= 84\text{dBuV/m} & 30\text{m} \\
 &= 84+20\log(30/3)^2 & 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$

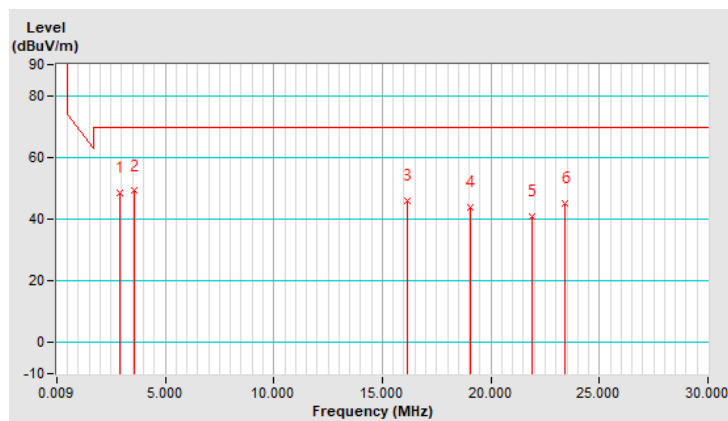


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                           | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                             | 2.92        | 48.4 QP                 | 69.5           | -21.1       | 1.00 V             | 4                    | 28.5             | 19.9                     |
| 2                                                             | 3.57        | 49.1 QP                 | 69.5           | -20.4       | 1.00 V             | 321                  | 29.1             | 20.0                     |
| 3                                                             | 16.18       | 46.0 QP                 | 69.5           | -23.5       | 1.00 V             | 260                  | 24.1             | 21.9                     |
| 4                                                             | 19.05       | 43.8 QP                 | 69.5           | -25.7       | 1.00 V             | 12                   | 21.8             | 22.0                     |
| 5                                                             | 21.92       | 40.7 QP                 | 69.5           | -28.8       | 1.00 V             | 338                  | 18.6             | 22.1                     |
| 6                                                             | 23.44       | 45.0 QP                 | 69.5           | -24.5       | 1.00 V             | 82                   | 22.9             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

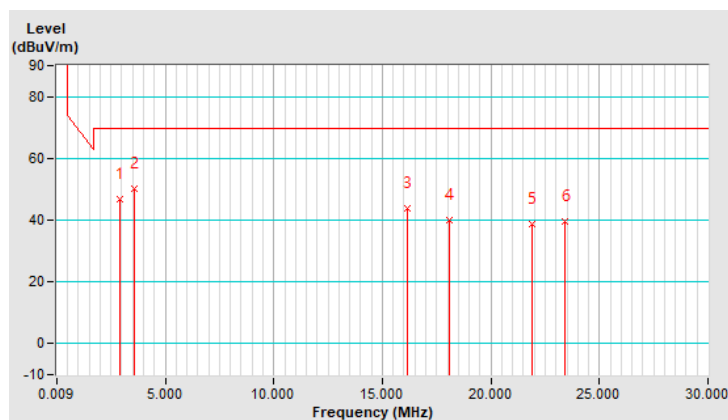


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                  | 2.92        | 46.7 QP                 | 69.5           | -22.8       | 1.00 V             | 81                   | 26.8             | 19.9                     |
| 2                                                                  | 3.57        | 50.1 QP                 | 69.5           | -19.4       | 1.00 V             | 161                  | 30.1             | 20.0                     |
| 3                                                                  | 16.18       | 43.9 QP                 | 69.5           | -25.6       | 1.00 V             | 308                  | 22.0             | 21.9                     |
| 4                                                                  | 18.09       | 39.9 QP                 | 69.5           | -29.6       | 1.00 V             | 124                  | 17.9             | 22.0                     |
| 5                                                                  | 21.92       | 38.7 QP                 | 69.5           | -30.8       | 1.00 V             | 23                   | 16.6             | 22.1                     |
| 6                                                                  | 23.44       | 39.4 QP                 | 69.5           | -30.1       | 1.00 V             | 118                  | 17.3             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

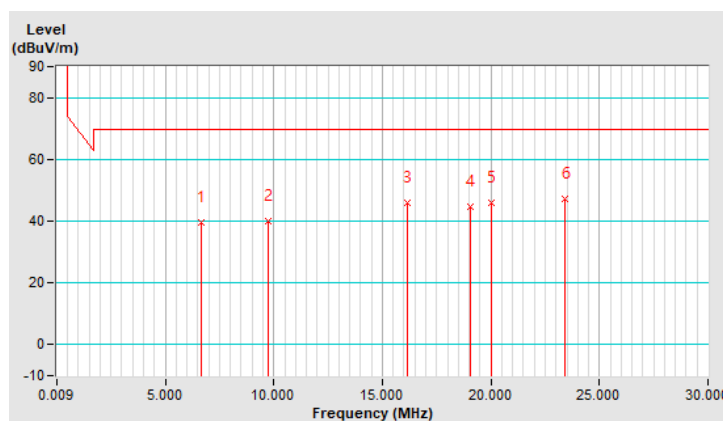


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 67% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                    | 6.66        | 39.5 QP                 | 69.5           | -30.0       | 1.00 V             | 213                  | 18.9             | 20.6                     |
| 2                                                                    | 9.75        | 39.9 QP                 | 69.5           | -29.6       | 1.00 V             | 36                   | 18.3             | 21.6                     |
| 3                                                                    | 16.18       | 46.0 QP                 | 69.5           | -23.5       | 1.00 V             | 130                  | 24.1             | 21.9                     |
| 4                                                                    | 19.05       | 44.7 QP                 | 69.5           | -24.8       | 1.00 V             | 321                  | 22.7             | 22.0                     |
| 5                                                                    | 20.00       | 46.1 QP                 | 69.5           | -23.4       | 1.00 V             | 195                  | 24.0             | 22.1                     |
| 6                                                                    | 23.44       | 47.1 QP                 | 69.5           | -22.4       | 1.00 V             | 102                  | 25.0             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

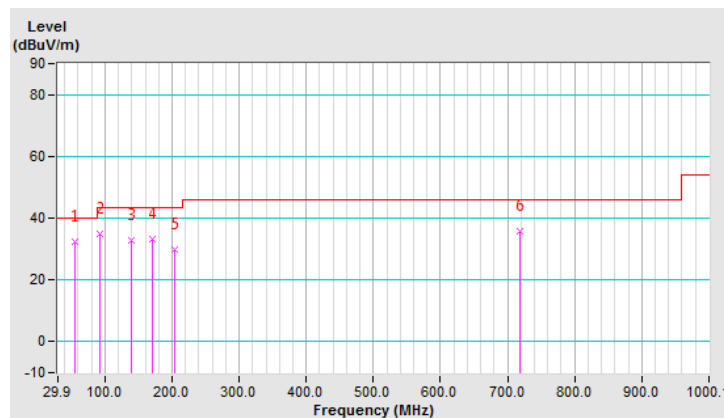


| EUT Test Condition       |                   | Measurement Detail |               |
|--------------------------|-------------------|--------------------|---------------|
| Channel                  | Channel 1         | Frequency Range    | Below 1000MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak    |
| Environmental Conditions | 25 deg. C, 70% RH | Tested By          | Luis Lee      |

| Antenna Polarity & Test Distance: Horizontal At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 55.13       | 32.4 QP                 | 40.0           | -7.6        | 1.49 H             | 138                  | 40.9             | -8.5                     |
| 2                                                  | 91.99       | 35.1 QP                 | 43.5           | -8.4        | 1.49 H             | 121                  | 49.1             | -14.0                    |
| 3                                                  | 138.56      | 32.7 QP                 | 43.5           | -10.8       | 1.49 H             | 135                  | 42.0             | -9.3                     |
| 4                                                  | 171.55      | 33.4 QP                 | 43.5           | -10.1       | 1.49 H             | 117                  | 42.6             | -9.2                     |
| 5                                                  | 204.54      | 29.8 QP                 | 43.5           | -13.7       | 1.49 H             | 117                  | 41.3             | -11.5                    |
| 6                                                  | 718.74      | 35.7 QP                 | 46.0           | -10.3       | 1.49 H             | 136                  | 33.0             | 2.7                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

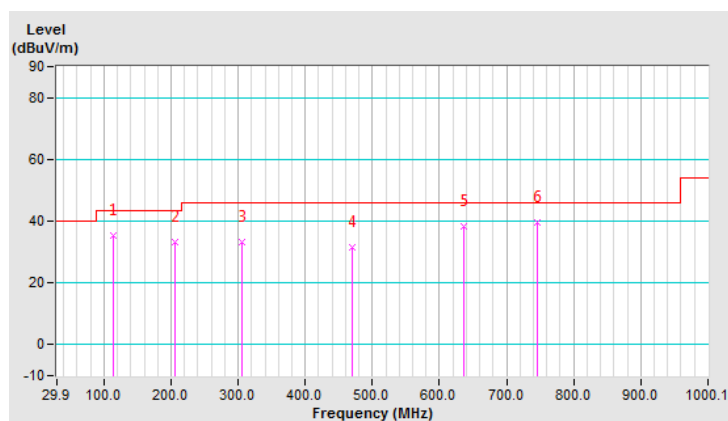


| EUT Test Condition       |                   | Measurement Detail |               |
|--------------------------|-------------------|--------------------|---------------|
| Channel                  | Channel 1         | Frequency Range    | Below 1000MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak    |
| Environmental Conditions | 25 deg. C, 70% RH | Tested By          | Luis Lee      |

| Antenna Polarity & Test Distance: Vertical At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                              | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                | 113.34      | 35.5 QP                 | 43.5           | -8.0        | 1.00 V             | 143                  | 47.0             | -11.5                    |
| 2                                                | 206.48      | 33.2 QP                 | 43.5           | -10.3       | 1.50 V             | 54                   | 44.7             | -11.5                    |
| 3                                                | 305.44      | 33.2 QP                 | 46.0           | -12.8       | 1.50 V             | 54                   | 40.3             | -7.1                     |
| 4                                                | 470.37      | 31.7 QP                 | 46.0           | -14.3       | 1.50 V             | 49                   | 34.8             | -3.1                     |
| 5                                                | 635.30      | 38.2 QP                 | 46.0           | -7.8        | 1.50 V             | 53                   | 37.3             | 0.9                      |
| 6                                                | 745.91      | 39.6 QP                 | 46.0           | -6.4        | 1.50 V             | 8                    | 35.8             | 3.8                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



## Type F

| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

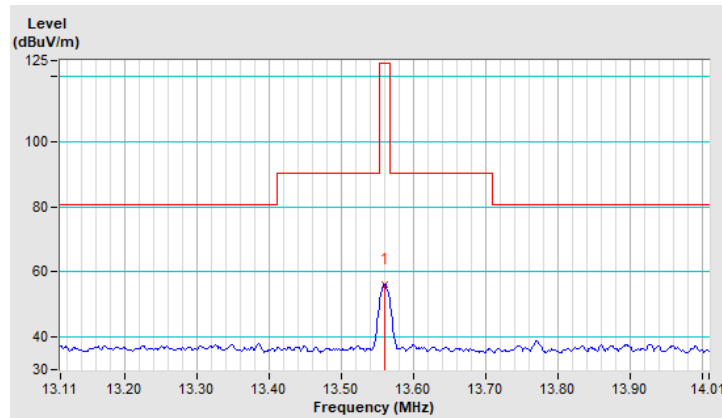
| Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                           | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                             | 13.56       | 56.2 QP                 | 124.0          | -67.8       | 1.00 V             | 169                  | 34.4             | 21.8                     |

- Remarks:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} & 30\text{m} \\
 &= 84\text{dBuV/m} & 30\text{m} \\
 &= 84+20\log(30/3)^2 & 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

| Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                  | 13.56       | 53.2 QP                 | 124.0          | -70.8       | 1.00 V             | 251                  | 31.4             | 21.8                     |

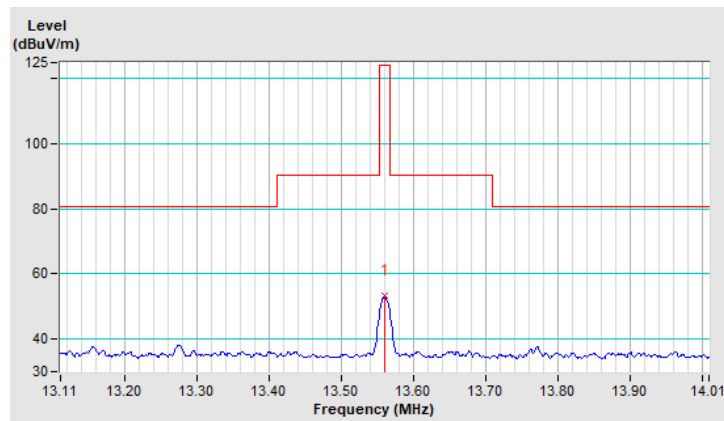
Remarks:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

13.56MHz = 15848uV/m                      30m  
               = 84dBuV/m                        30m  
               =  $84+20\log(30/3)^2$             3m  
               = 124dBuV/m





| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

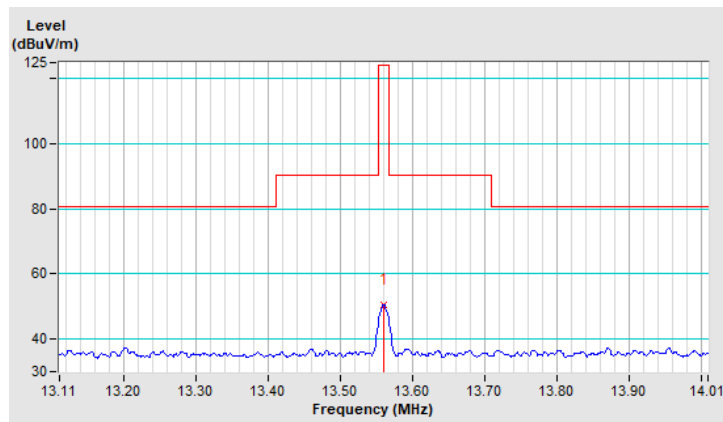
| Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                    | 13.56       | 50.6 QP                 | 124.0          | -73.4       | 1.00 V             | 162                  | 28.8             | 21.8                     |

- Remarks:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} & 30\text{m} \\
 &= 84\text{dBuV/m} & 30\text{m} \\
 &= 84+20\log(30/3)^2 & 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$

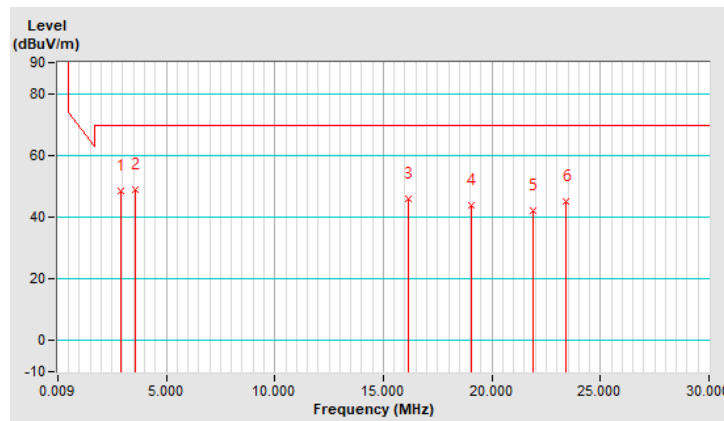


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                           | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                             | 2.92        | 48.3 QP                 | 69.5           | -21.2       | 1.00 V             | 87                   | 28.4             | 19.9                     |
| 2                                                             | 3.57        | 49.1 QP                 | 69.5           | -20.4       | 1.00 V             | 292                  | 29.1             | 20.0                     |
| 3                                                             | 16.18       | 46.0 QP                 | 69.5           | -23.5       | 1.00 V             | 44                   | 24.1             | 21.9                     |
| 4                                                             | 19.05       | 43.8 QP                 | 69.5           | -25.7       | 1.00 V             | 340                  | 21.8             | 22.0                     |
| 5                                                             | 21.92       | 42.3 QP                 | 69.5           | -27.2       | 1.00 V             | 337                  | 20.2             | 22.1                     |
| 6                                                             | 23.44       | 44.9 QP                 | 69.5           | -24.6       | 1.00 V             | 10                   | 22.8             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

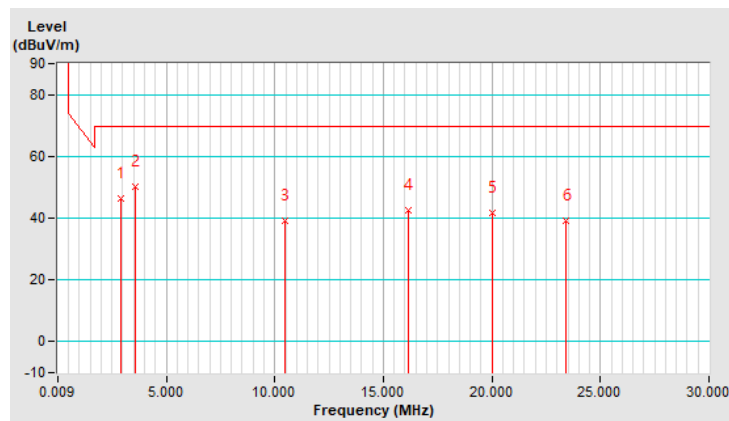


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                  | 2.92        | 46.2 QP                 | 69.5           | -23.3       | 1.00 V             | 108                  | 26.3             | 19.9                     |
| 2                                                                  | 3.57        | 50.2 QP                 | 69.5           | -19.3       | 1.00 V             | 13                   | 30.2             | 20.0                     |
| 3                                                                  | 10.48       | 39.2 QP                 | 69.5           | -30.3       | 1.00 V             | 150                  | 17.5             | 21.7                     |
| 4                                                                  | 16.18       | 42.7 QP                 | 69.5           | -26.8       | 1.00 V             | 141                  | 20.8             | 21.9                     |
| 5                                                                  | 20.00       | 41.5 QP                 | 69.5           | -28.0       | 1.00 V             | 269                  | 19.4             | 22.1                     |
| 6                                                                  | 23.44       | 39.3 QP                 | 69.5           | -30.2       | 1.00 V             | 33                   | 17.2             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

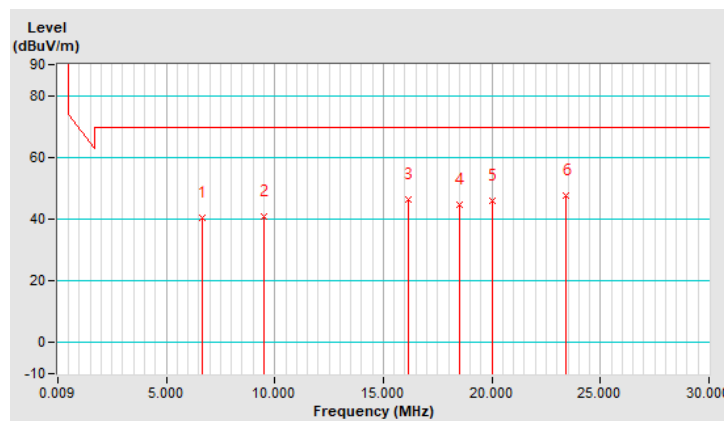


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 67% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                    | 6.66        | 40.5 QP                 | 69.5           | -29.0       | 1.00 V             | 261                  | 19.9             | 20.6                     |
| 2                                                                    | 9.53        | 40.8 QP                 | 69.5           | -28.7       | 1.00 V             | 258                  | 19.3             | 21.5                     |
| 3                                                                    | 16.18       | 46.3 QP                 | 69.5           | -23.2       | 1.00 V             | 349                  | 24.4             | 21.9                     |
| 4                                                                    | 18.53       | 44.5 QP                 | 69.5           | -25.0       | 1.00 V             | 241                  | 22.5             | 22.0                     |
| 5                                                                    | 20.00       | 46.0 QP                 | 69.5           | -23.5       | 1.00 V             | 208                  | 23.9             | 22.1                     |
| 6                                                                    | 23.44       | 47.5 QP                 | 69.5           | -22.0       | 1.00 V             | 55                   | 25.4             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

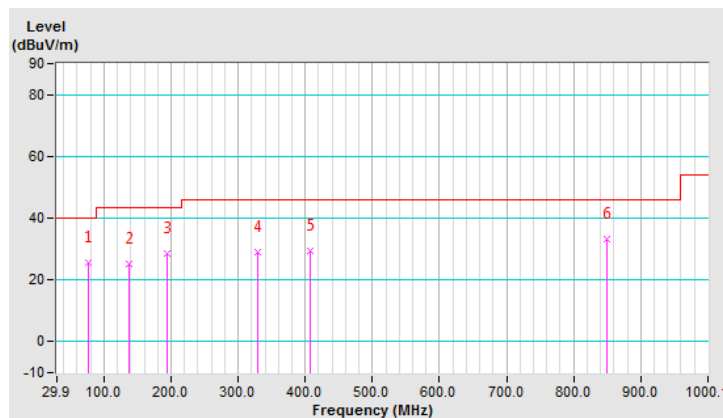


| EUT Test Condition       |                   | Measurement Detail |               |
|--------------------------|-------------------|--------------------|---------------|
| Channel                  | Channel 1         | Frequency Range    | Below 1000MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak    |
| Environmental Conditions | 25 deg. C, 70% RH | Tested By          | Luis Lee      |

| Antenna Polarity & Test Distance: Horizontal At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 76.47       | 25.4 QP                 | 40.0           | -14.6       | 1.50 H             | 102                  | 37.2             | -11.8                    |
| 2                                                  | 136.62      | 25.1 QP                 | 43.5           | -18.4       | 1.50 H             | 37                   | 34.5             | -9.4                     |
| 3                                                  | 194.83      | 28.6 QP                 | 43.5           | -14.9       | 1.50 H             | 37                   | 40.1             | -11.5                    |
| 4                                                  | 328.72      | 29.1 QP                 | 46.0           | -16.9       | 1.01 H             | 265                  | 35.5             | -6.4                     |
| 5                                                  | 408.28      | 29.4 QP                 | 46.0           | -16.6       | 1.01 H             | 143                  | 34.1             | -4.7                     |
| 6                                                  | 848.75      | 33.4 QP                 | 46.0           | -12.6       | 1.01 H             | 241                  | 27.6             | 5.8                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

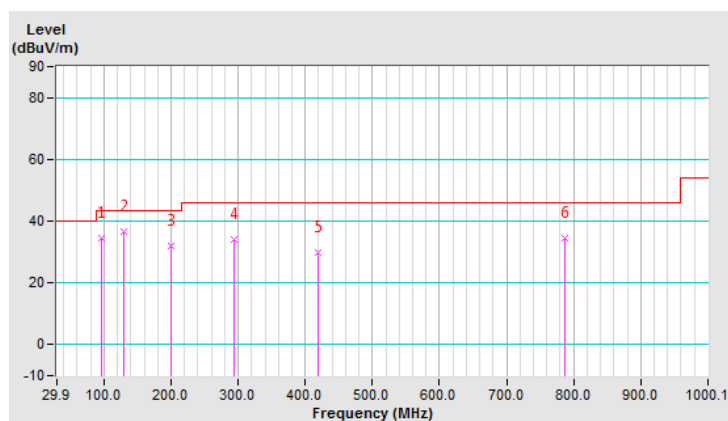


| EUT Test Condition       |                   | Measurement Detail |               |
|--------------------------|-------------------|--------------------|---------------|
| Channel                  | Channel 1         | Frequency Range    | Below 1000MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak    |
| Environmental Conditions | 25 deg. C, 70% RH | Tested By          | Luis Lee      |

| Antenna Polarity & Test Distance: Vertical At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                              | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                | 95.87       | 34.5 QP                 | 43.5           | -9.0        | 1.50 V             | 137                  | 48.2             | -13.7                    |
| 2                                                | 128.86      | 36.8 QP                 | 43.5           | -6.7        | 1.00 V             | 40                   | 47.1             | -10.3                    |
| 3                                                | 200.66      | 31.9 QP                 | 43.5           | -11.6       | 1.50 V             | 137                  | 43.3             | -11.4                    |
| 4                                                | 293.79      | 34.0 QP                 | 46.0           | -12.0       | 1.00 V             | 40                   | 41.5             | -7.5                     |
| 5                                                | 419.92      | 29.9 QP                 | 46.0           | -16.1       | 1.50 V             | 138                  | 34.2             | -4.3                     |
| 6                                                | 786.66      | 34.3 QP                 | 46.0           | -11.7       | 1.50 V             | 13                   | 29.5             | 4.8                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



## Type V

| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

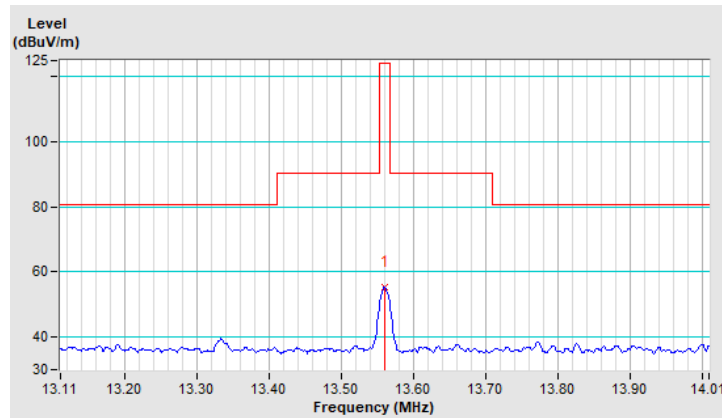
| Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                           | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                             | 13.56       | 55.3 QP                 | 124.0          | -68.7       | 1.00 V             | 158                  | 33.5             | 21.8                     |

- Remarks:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} & 30\text{m} \\
 &= 84\text{dBuV/m} & 30\text{m} \\
 &= 84+20\log(30/3)^2 & 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

| Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                  | 13.56       | 53.2 QP                 | 124.0          | -70.8       | 1.00 V             | 258                  | 31.4             | 21.8                     |

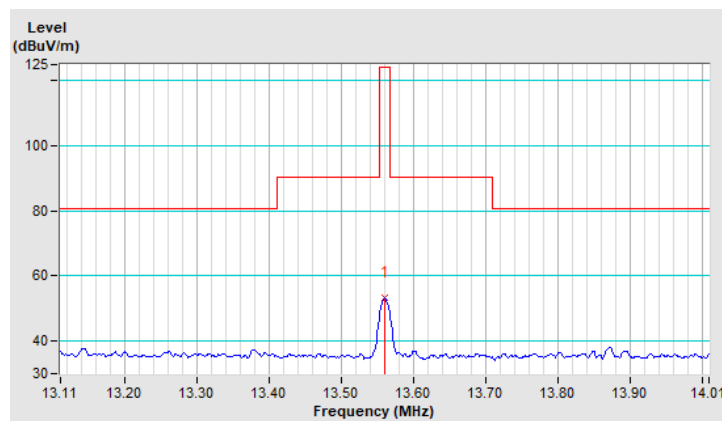
Remarks:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

13.56MHz = 15848uV/m                      30m  
= 84dBuV/m                                30m  
=  $84 + 20\log(30/3)^2$                       3m  
= 124dBuV/m





| EUT Test Condition       |                   | Measurement Detail |                    |
|--------------------------|-------------------|--------------------|--------------------|
| Channel                  | Channel 1         | Frequency Range    | 13.553 ~ 13.567MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak         |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu          |

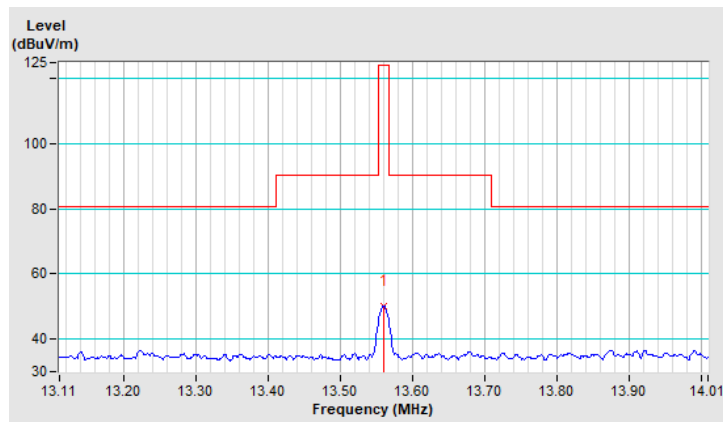
| Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                    | 13.56       | 50.3 QP                 | 124.0          | -73.7       | 1.00 V             | 147                  | 28.5             | 21.8                     |

- Remarks:
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} & 30\text{m} \\
 &= 84\text{dBuV/m} & 30\text{m} \\
 &= 84+20\log(30/3)^2 & 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$

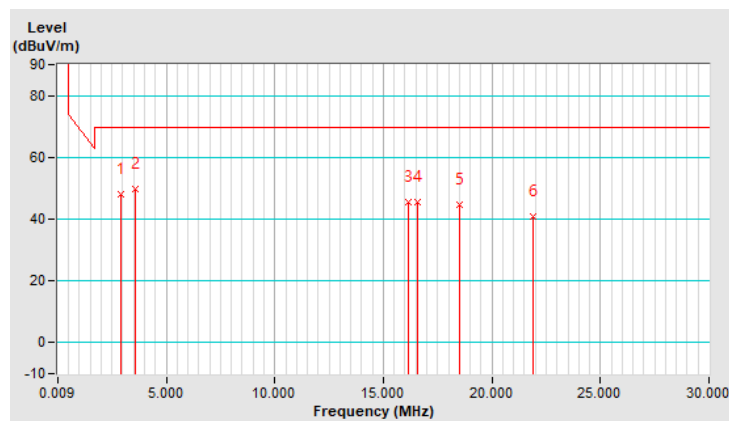


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|---------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                           | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                             | 2.92        | 48.0 QP                 | 69.5           | -21.5       | 1.00 V             | 116                  | 28.1             | 19.9                     |
| 2                                                             | 3.57        | 49.9 QP                 | 69.5           | -19.6       | 1.00 V             | 129                  | 29.9             | 20.0                     |
| 3                                                             | 16.18       | 45.6 QP                 | 69.5           | -23.9       | 1.00 V             | 59                   | 23.7             | 21.9                     |
| 4                                                             | 16.57       | 45.7 QP                 | 69.5           | -23.8       | 1.00 V             | 239                  | 23.8             | 21.9                     |
| 5                                                             | 18.53       | 44.5 QP                 | 69.5           | -25.0       | 1.00 V             | 355                  | 22.5             | 22.0                     |
| 6                                                             | 21.92       | 41.0 QP                 | 69.5           | -28.5       | 1.00 V             | 227                  | 18.9             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

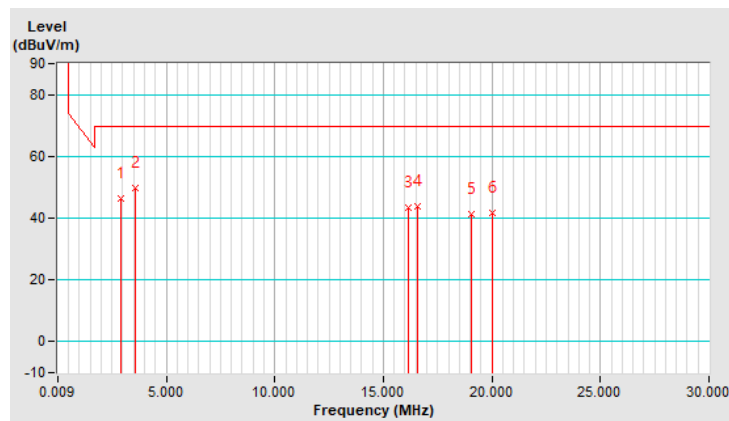


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 66% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Perpendicular At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                  | 2.92        | 46.4 QP                 | 69.5           | -23.1       | 1.00 V             | 246                  | 26.5             | 19.9                     |
| 2                                                                  | 3.57        | 49.9 QP                 | 69.5           | -19.6       | 1.00 V             | 13                   | 29.9             | 20.0                     |
| 3                                                                  | 16.18       | 43.2 QP                 | 69.5           | -26.3       | 1.00 V             | 140                  | 21.3             | 21.9                     |
| 4                                                                  | 16.57       | 43.7 QP                 | 69.5           | -25.8       | 1.00 V             | 13                   | 21.8             | 21.9                     |
| 5                                                                  | 19.05       | 41.1 QP                 | 69.5           | -28.4       | 1.00 V             | 168                  | 19.1             | 22.0                     |
| 6                                                                  | 20.00       | 41.7 QP                 | 69.5           | -27.8       | 1.00 V             | 40                   | 19.6             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

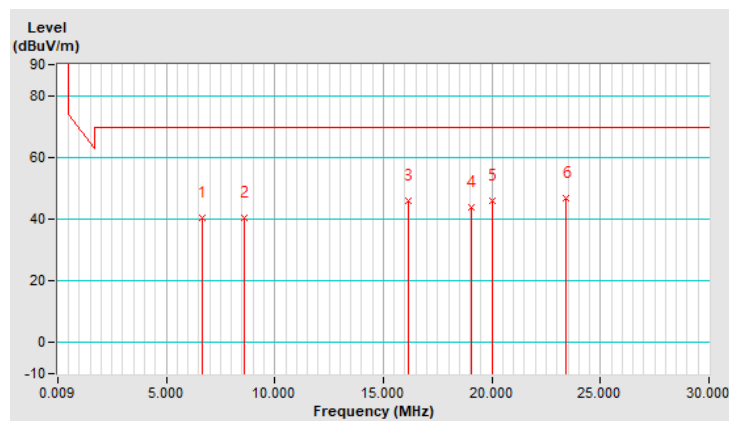


| EUT Test Condition       |                   | Measurement Detail |             |
|--------------------------|-------------------|--------------------|-------------|
| Channel                  | Channel 1         | Frequency Range    | Below 30MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak  |
| Environmental Conditions | 23 deg. C, 67% RH | Tested By          | Titan Hsu   |

| Antenna Polarity & Test Distance: Loop Antenna Ground Parallel At 3m |             |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                                  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                                    | 6.66        | 40.3 QP                 | 69.5           | -29.2       | 1.00 V             | 344                  | 19.7             | 20.6                     |
| 2                                                                    | 8.57        | 40.6 QP                 | 69.5           | -28.9       | 1.00 V             | 115                  | 19.4             | 21.2                     |
| 3                                                                    | 16.18       | 45.8 QP                 | 69.5           | -23.7       | 1.00 V             | 224                  | 23.9             | 21.9                     |
| 4                                                                    | 19.05       | 43.9 QP                 | 69.5           | -25.6       | 1.00 V             | 98                   | 21.9             | 22.0                     |
| 5                                                                    | 20.00       | 45.9 QP                 | 69.5           | -23.6       | 1.00 V             | 218                  | 23.8             | 22.1                     |
| 6                                                                    | 23.44       | 46.8 QP                 | 69.5           | -22.7       | 1.00 V             | 3                    | 24.7             | 22.1                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

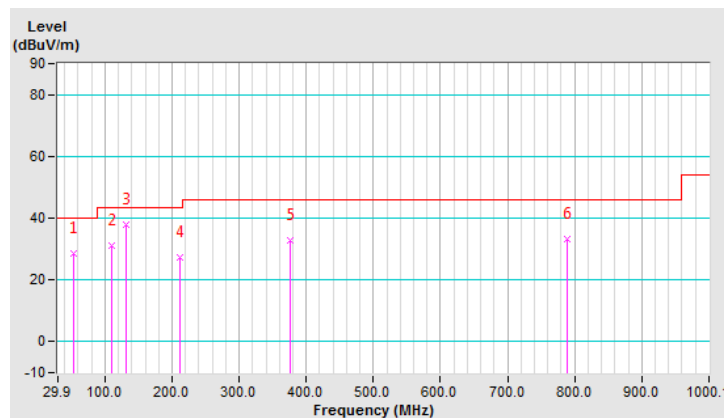


| EUT Test Condition       |                   | Measurement Detail |               |
|--------------------------|-------------------|--------------------|---------------|
| Channel                  | Channel 1         | Frequency Range    | Below 1000MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak    |
| Environmental Conditions | 25 deg. C, 70% RH | Tested By          | Luis Lee      |

| Antenna Polarity & Test Distance: Horizontal At 3m |               |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|---------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                                | Freq. (MHz)   | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 53.18         | 28.7 QP                 | 40.0           | -11.3       | 1.00 H             | 54                   | 37.1             | -8.4                     |
| 2                                                  | 109.46        | 31.1 QP                 | 43.5           | -12.4       | 1.49 H             | 142                  | 42.9             | -11.8                    |
| <b>3</b>                                           | <b>130.80</b> | <b>37.7 QP</b>          | <b>43.5</b>    | <b>-5.8</b> | <b>1.49 H</b>      | <b>105</b>           | <b>47.7</b>      | <b>-10.0</b>             |
| 4                                                  | 212.30        | 27.1 QP                 | 43.5           | -16.4       | 1.49 H             | 74                   | 38.4             | -11.3                    |
| 5                                                  | 375.29        | 32.8 QP                 | 46.0           | -13.2       | 1.00 H             | 149                  | 38.2             | -5.4                     |
| 6                                                  | 788.60        | 33.3 QP                 | 46.0           | -12.7       | 1.00 H             | 160                  | 28.5             | 4.8                      |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

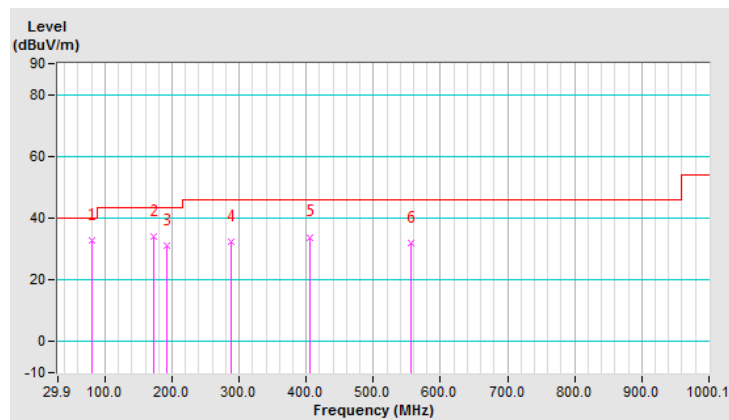


| EUT Test Condition       |                   | Measurement Detail |               |
|--------------------------|-------------------|--------------------|---------------|
| Channel                  | Channel 1         | Frequency Range    | Below 1000MHz |
| Input Power              | 120Vac, 60Hz      | Detector Function  | Quasi-Peak    |
| Environmental Conditions | 25 deg. C, 70% RH | Tested By          | Luis Lee      |

| Antenna Polarity & Test Distance: Vertical At 3m |             |                         |                |             |                    |                      |                  |                          |
|--------------------------------------------------|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.                                              | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                | 80.35       | 32.7 QP                 | 40.0           | -7.3        | 1.00 V             | 126                  | 45.6             | -12.9                    |
| 2                                                | 173.49      | 34.0 QP                 | 43.5           | -9.5        | 1.00 V             | 121                  | 43.4             | -9.4                     |
| 3                                                | 192.89      | 31.3 QP                 | 43.5           | -12.2       | 1.00 V             | 131                  | 42.8             | -11.5                    |
| 4                                                | 287.97      | 32.2 QP                 | 46.0           | -13.8       | 1.00 V             | 121                  | 39.9             | -7.7                     |
| 5                                                | 406.34      | 33.9 QP                 | 46.0           | -12.1       | 1.00 V             | 131                  | 38.6             | -4.7                     |
| 6                                                | 555.75      | 31.9 QP                 | 46.0           | -14.1       | 1.00 V             | 124                  | 33.4             | -1.5                     |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-Peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 4.2.2 Test Instruments

| Description & Manufacturer              | Model No.             | Serial No.     | Date of Calibration | Due Date of Calibration |
|-----------------------------------------|-----------------------|----------------|---------------------|-------------------------|
| Test Receiver<br>ROHDE & SCHWARZ        | ESCI                  | 100613         | Dec. 11, 2019       | Dec. 10, 2020           |
| RF signal cable<br>Woken                | 5D-FB                 | Cable-cond1-01 | Sep. 05, 2019       | Sep. 04, 2020           |
| LISN<br>ROHDE & SCHWARZ<br>(EUT)        | ENV216                | 101826         | Feb. 20, 2020       | Feb. 19, 2021           |
| LISN<br>ROHDE & SCHWARZ<br>(Peripheral) | ESH3-Z5               | 100311         | Aug. 22, 2019       | Aug. 21, 2020           |
| Software<br>ADT                         | BV ADT_Conc_ V7.3.7.4 | NA             | NA                  | NA                      |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1.
3. The VCCI Site Registration No. is C-12040.

#### 4.2.3 Test Procedures

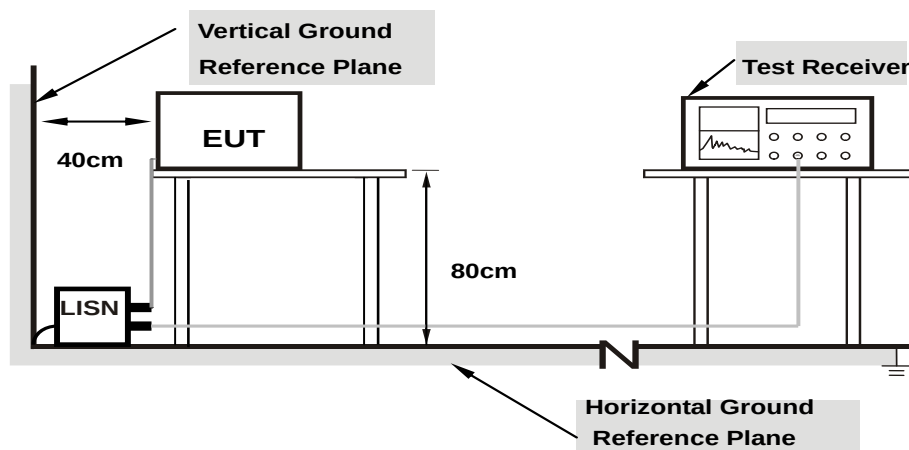
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

**Note:** The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz - 30 MHz.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 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 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Set the EUT under transmission condition continuously at specific channel frequency.



#### 4.2.7 Test Results

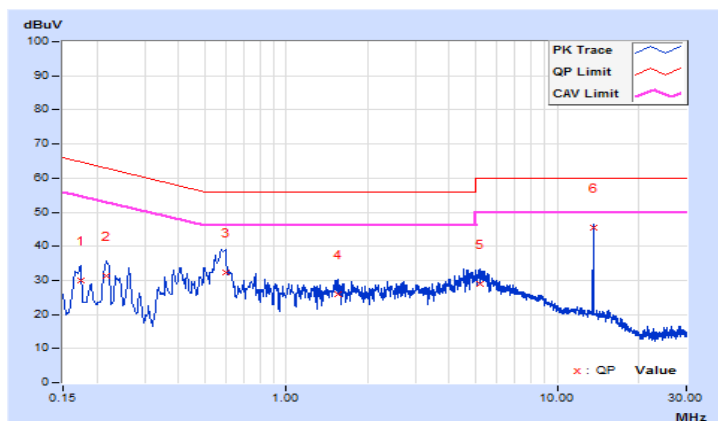
##### Mode A

|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type A         |                                          |                                      |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.17384         | 9.63                   | 20.42                | 9.91  | 30.05                 | 19.54 | 64.77        | 54.77 | -34.72      | -35.23 |
| 2                         | 0.21748         | 9.62                   | 21.72                | 12.75 | 31.34                 | 22.37 | 62.91        | 52.91 | -31.57      | -30.54 |
| 3                         | 0.59800         | 9.66                   | 22.57                | 17.93 | 32.23                 | 27.59 | 56.00        | 46.00 | -23.77      | -18.41 |
| 4                         | 1.54600         | 9.71                   | 16.26                | 11.45 | 25.97                 | 21.16 | 56.00        | 46.00 | -30.03      | -24.84 |
| 5                         | 5.18200         | 9.81                   | 19.15                | 12.07 | 28.96                 | 21.88 | 60.00        | 50.00 | -31.04      | -28.12 |
| 6                         | 13.56200        | 9.89                   | 35.44                | 35.11 | 45.33                 | 45.00 | 60.00        | 50.00 | -14.67      | -5.00  |

##### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

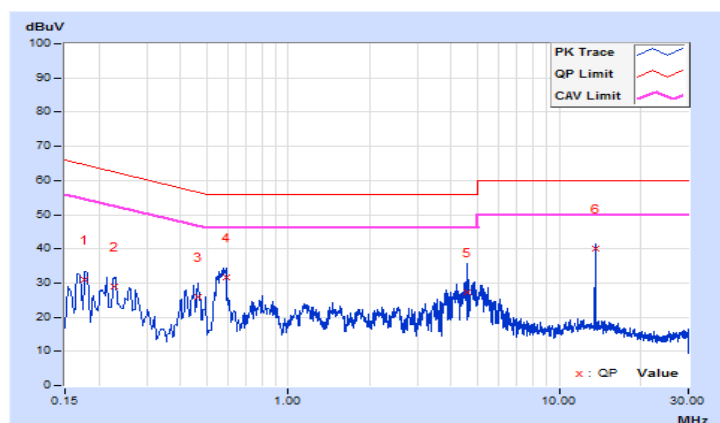


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type A         |                                          |                                      |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.17800         | 9.65                   | 21.19                | 9.14  | 30.84                 | 18.79 | 64.58        | 54.58 | -33.74      | -35.79 |
| 2                            | 0.22924         | 9.64                   | 19.45                | 9.93  | 29.09                 | 19.57 | 62.48        | 52.48 | -33.39      | -32.91 |
| 3                            | 0.46200         | 9.67                   | 16.29                | 7.45  | 25.96                 | 17.12 | 56.66        | 46.66 | -30.70      | -29.54 |
| 4                            | 0.59000         | 9.68                   | 21.92                | 13.95 | 31.60                 | 23.63 | 56.00        | 46.00 | -24.40      | -22.37 |
| 5                            | 4.56600         | 9.83                   | 17.53                | 7.07  | 27.36                 | 16.90 | 56.00        | 46.00 | -28.64      | -29.10 |
| 6                            | 13.56200        | 9.96                   | 30.10                | 29.68 | 40.06                 | 39.64 | 60.00        | 50.00 | -19.94      | -10.36 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

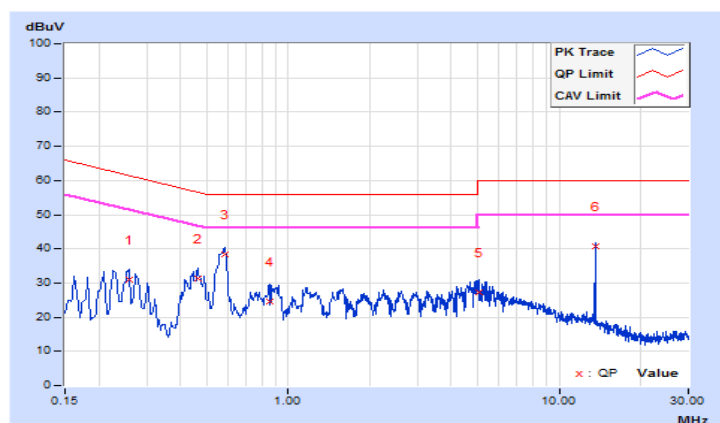


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type B         |                                          |                                      |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.25800         | 9.63                   | 21.25                | 13.88 | 30.88                 | 23.51 | 61.50        | 51.50 | -30.62      | -27.99 |
| 2                         | 0.46200         | 9.65                   | 21.64                | 16.75 | 31.29                 | 26.40 | 56.66        | 46.66 | -25.37      | -20.26 |
| 3                         | 0.58600         | 9.66                   | 28.62                | 23.88 | 38.28                 | 33.54 | 56.00        | 46.00 | -17.72      | -12.46 |
| 4                         | 0.85000         | 9.67                   | 15.02                | 10.24 | 24.69                 | 19.91 | 56.00        | 46.00 | -31.31      | -26.09 |
| 5                         | 5.06200         | 9.80                   | 17.53                | 10.93 | 27.33                 | 20.73 | 60.00        | 50.00 | -32.67      | -29.27 |
| 6                         | 13.56200        | 9.89                   | 30.83                | 30.70 | 40.72                 | 40.59 | 60.00        | 50.00 | -19.28      | -9.41  |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

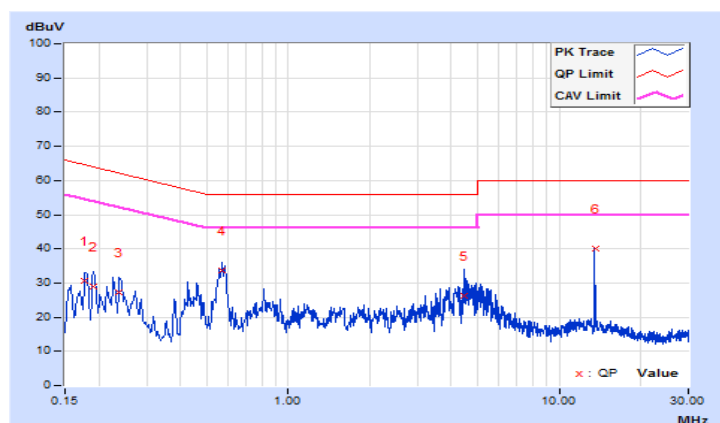


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type B         |                                          |                                      |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.17800         | 9.65                   | 20.86                | 8.46  | 30.51                 | 18.11 | 64.58        | 54.58 | -34.07      | -36.47 |
| 2                            | 0.19000         | 9.64                   | 19.47                | 8.05  | 29.11                 | 17.69 | 64.04        | 54.04 | -34.93      | -36.35 |
| 3                            | 0.23800         | 9.65                   | 17.71                | 8.53  | 27.36                 | 18.18 | 62.17        | 52.17 | -34.81      | -33.99 |
| 4                            | 0.57000         | 9.68                   | 23.89                | 15.86 | 33.57                 | 25.54 | 56.00        | 46.00 | -22.43      | -20.46 |
| 5                            | 4.46200         | 9.83                   | 16.56                | 5.71  | 26.39                 | 15.54 | 56.00        | 46.00 | -29.61      | -30.46 |
| 6                            | 13.56200        | 9.96                   | 30.21                | 29.76 | 40.17                 | 39.72 | 60.00        | 50.00 | -19.83      | -10.28 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

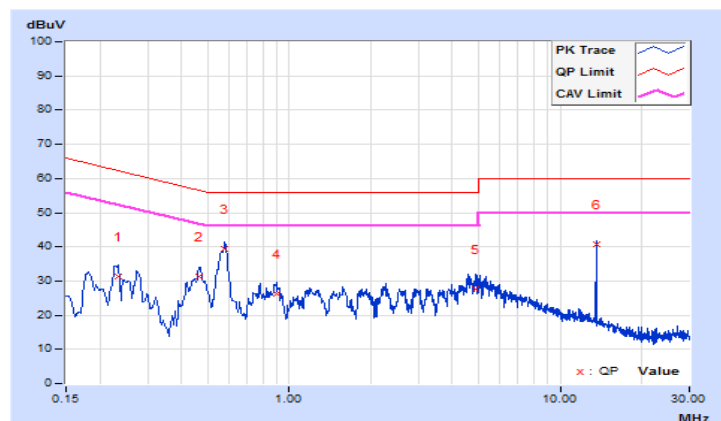


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type F         |                                          |                                      |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.23289         | 9.62                   | 21.59                | 13.75 | 31.21                 | 23.37 | 62.35        | 52.35 | -31.14      | -28.98 |
| 2                         | 0.46567         | 9.65                   | 21.64                | 16.71 | 31.29                 | 26.36 | 56.59        | 46.59 | -25.30      | -20.23 |
| 3                         | 0.57796         | 9.66                   | 29.74                | 25.13 | 39.40                 | 34.79 | 56.00        | 46.00 | -16.60      | -11.21 |
| 4                         | 0.89800         | 9.67                   | 16.67                | 12.49 | 26.34                 | 22.16 | 56.00        | 46.00 | -29.66      | -23.84 |
| 5                         | 4.89000         | 9.80                   | 17.84                | 9.96  | 27.64                 | 19.76 | 56.00        | 46.00 | -28.36      | -26.24 |
| 6                         | 13.56200        | 9.89                   | 30.82                | 30.67 | 40.71                 | 40.56 | 60.00        | 50.00 | -19.29      | -9.44  |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

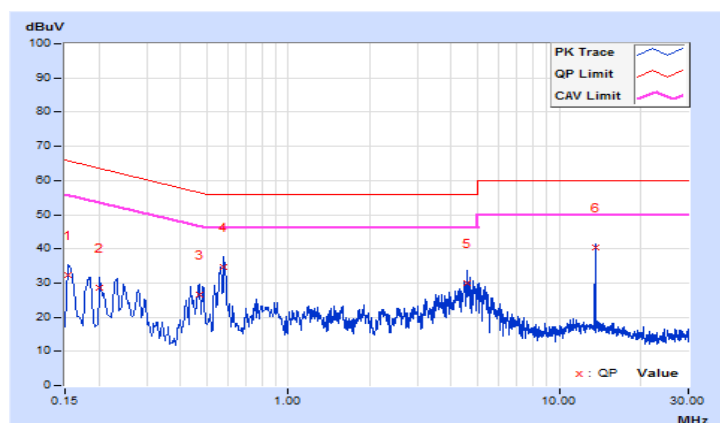


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type F         |                                          |                                      |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15400         | 9.66                   | 22.52                | 9.52  | 32.18                 | 19.18 | 65.78        | 55.78 | -33.60      | -36.60 |
| 2                            | 0.20200         | 9.64                   | 18.88                | 8.12  | 28.52                 | 17.76 | 63.53        | 53.53 | -35.01      | -35.77 |
| 3                            | 0.46936         | 9.67                   | 16.77                | 8.02  | 26.44                 | 17.69 | 56.53        | 46.53 | -30.09      | -28.84 |
| 4                            | 0.57796         | 9.68                   | 24.89                | 16.92 | 34.57                 | 26.60 | 56.00        | 46.00 | -21.43      | -19.40 |
| 5                            | 4.55800         | 9.83                   | 20.05                | 7.59  | 29.88                 | 17.42 | 56.00        | 46.00 | -26.12      | -28.58 |
| 6                            | 13.56200        | 9.96                   | 30.42                | 29.96 | 40.38                 | 39.92 | 60.00        | 50.00 | -19.62      | -10.08 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

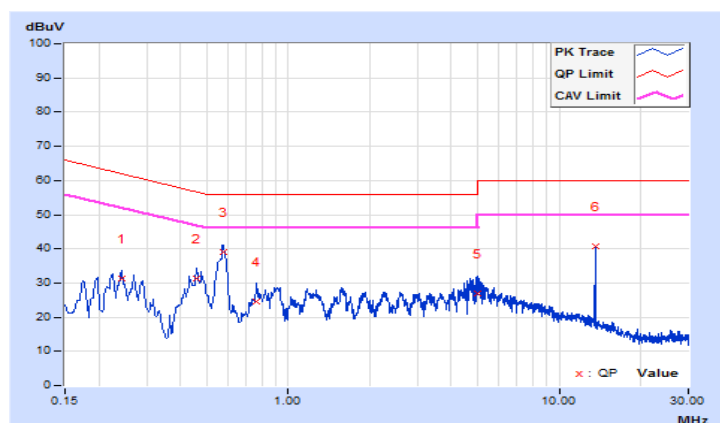


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type V         |                                          |                                      |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.24200         | 9.63                   | 21.53                | 13.89 | 31.16                 | 23.52 | 62.03        | 52.03 | -30.87      | -28.51 |
| 2                         | 0.45800         | 9.65                   | 21.52                | 16.54 | 31.17                 | 26.19 | 56.73        | 46.73 | -25.56      | -20.54 |
| 3                         | 0.57342         | 9.66                   | 29.27                | 24.73 | 38.93                 | 34.39 | 56.00        | 46.00 | -17.07      | -11.61 |
| 4                         | 0.76200         | 9.67                   | 14.96                | 10.39 | 24.63                 | 20.06 | 56.00        | 46.00 | -31.37      | -25.94 |
| 5                         | 4.99800         | 9.80                   | 17.27                | 10.31 | 27.07                 | 20.11 | 56.00        | 46.00 | -28.93      | -25.89 |
| 6                         | 13.56200        | 9.89                   | 30.76                | 30.63 | 40.65                 | 40.52 | 60.00        | 50.00 | -19.35      | -9.48  |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

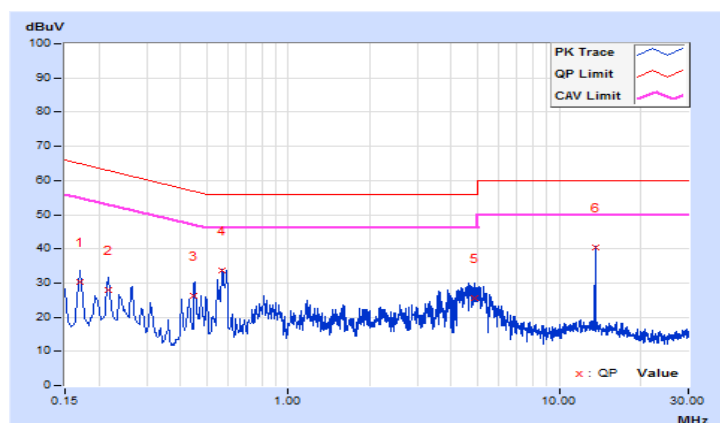


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type V         |                                          |                                      |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.17000         | 9.65                   | 20.61                | 8.23  | 30.26                 | 17.88 | 64.96        | 54.96 | -34.70      | -37.08 |
| 2                            | 0.21748         | 9.64                   | 18.42                | 8.34  | 28.06                 | 17.98 | 62.91        | 52.91 | -34.85      | -34.93 |
| 3                            | 0.44999         | 9.67                   | 16.53                | 7.75  | 26.20                 | 17.42 | 56.88        | 46.88 | -30.68      | -29.46 |
| 4                            | 0.57000         | 9.68                   | 23.90                | 15.90 | 33.58                 | 25.58 | 56.00        | 46.00 | -22.42      | -20.42 |
| 5                            | 4.87800         | 9.83                   | 15.62                | 4.72  | 25.45                 | 14.55 | 56.00        | 46.00 | -30.55      | -31.45 |
| 6                            | 13.56200        | 9.96                   | 30.40                | 29.94 | 40.36                 | 39.90 | 60.00        | 50.00 | -19.64      | -10.10 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value





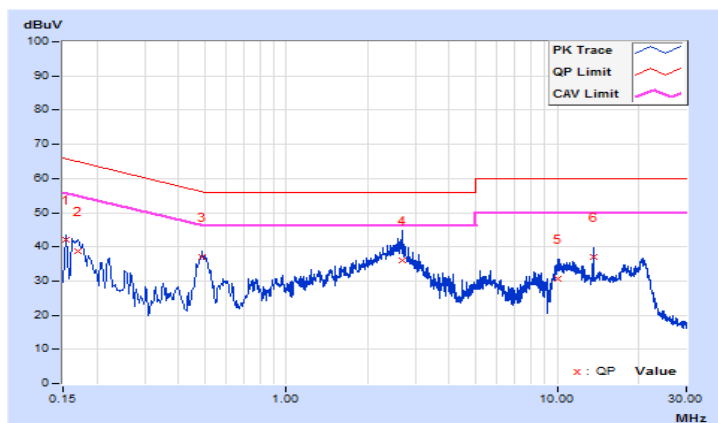
## Mode B

|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type A         |                                          |                                      |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15400         | 9.63                   | 32.43                | 21.26 | 42.06                 | 30.89 | 65.78        | 55.78 | -23.72      | -24.89 |
| 2                         | 0.17000         | 9.63                   | 29.13                | 19.20 | 38.76                 | 28.83 | 64.96        | 54.96 | -26.20      | -26.13 |
| 3                         | 0.49000         | 9.65                   | 27.47                | 22.56 | 37.12                 | 32.21 | 56.17        | 46.17 | -19.05      | -13.96 |
| 4                         | 2.67000         | 9.75                   | 26.34                | 21.63 | 36.09                 | 31.38 | 56.00        | 46.00 | -19.91      | -14.62 |
| 5                         | 10.07400        | 9.87                   | 20.79                | 15.52 | 30.66                 | 25.39 | 60.00        | 50.00 | -29.34      | -24.61 |
| 6                         | 13.56200        | 9.89                   | 27.08                | 25.60 | 36.97                 | 35.49 | 60.00        | 50.00 | -23.03      | -14.51 |

### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

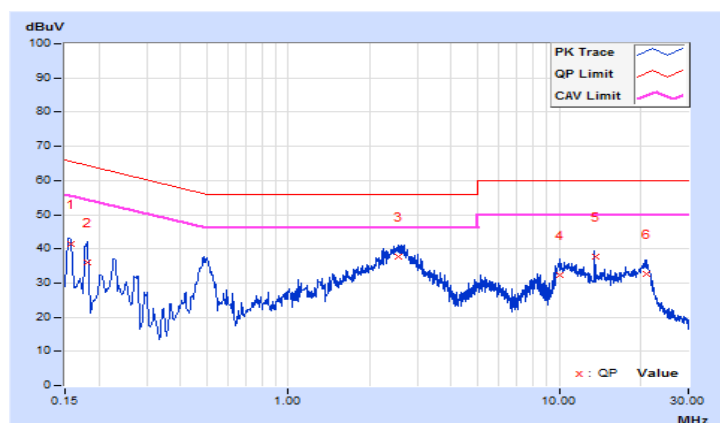


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/27                            |
| Test Mode       | Type A         |                                          |                                      |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15800         | 9.66                   | 31.68                | 19.71 | 41.34                 | 29.37 | 65.57        | 55.57 | -24.23      | -26.20 |
| 2                            | 0.18180         | 9.65                   | 26.47                | 15.23 | 36.12                 | 24.88 | 64.40        | 54.40 | -28.28      | -29.52 |
| 3                            | 2.56200         | 9.78                   | 27.89                | 23.32 | 37.67                 | 33.10 | 56.00        | 46.00 | -18.33      | -12.90 |
| 4                            | 10.09800        | 9.91                   | 22.49                | 17.25 | 32.40                 | 27.16 | 60.00        | 50.00 | -27.60      | -22.84 |
| 5                            | 13.56200        | 9.96                   | 27.84                | 26.47 | 37.80                 | 36.43 | 60.00        | 50.00 | -22.20      | -13.57 |
| 6                            | 20.96200        | 10.03                  | 22.69                | 17.96 | 32.72                 | 27.99 | 60.00        | 50.00 | -27.28      | -22.01 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

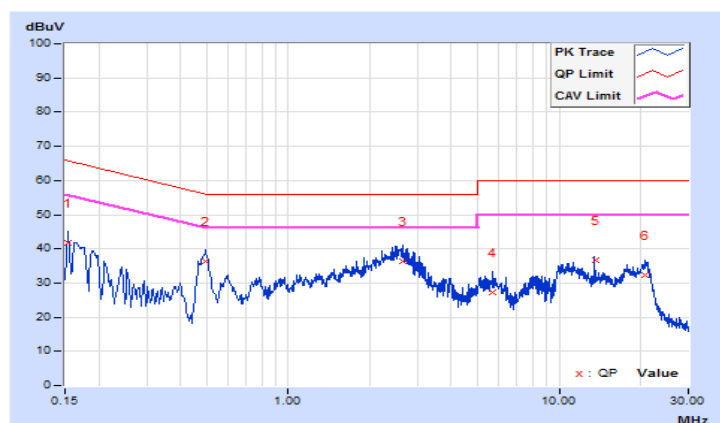


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/28                            |
| Test Mode       | Type B         |                                          |                                      |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15400         | 9.63                   | 31.96                | 21.02 | 41.59                 | 30.65 | 65.78        | 55.78 | -24.19      | -25.13 |
| 2                         | 0.49400         | 9.65                   | 26.60                | 22.04 | 36.25                 | 31.69 | 56.10        | 46.10 | -19.85      | -14.41 |
| 3                         | 2.64600         | 9.75                   | 26.78                | 22.05 | 36.53                 | 31.80 | 56.00        | 46.00 | -19.47      | -14.20 |
| 4                         | 5.69400         | 9.81                   | 17.57                | 12.12 | 27.38                 | 21.93 | 60.00        | 50.00 | -32.62      | -28.07 |
| 5                         | 13.56200        | 9.89                   | 26.68                | 25.15 | 36.57                 | 35.04 | 60.00        | 50.00 | -23.43      | -14.96 |
| 6                         | 20.70600        | 9.91                   | 22.54                | 17.85 | 32.45                 | 27.76 | 60.00        | 50.00 | -27.55      | -22.24 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

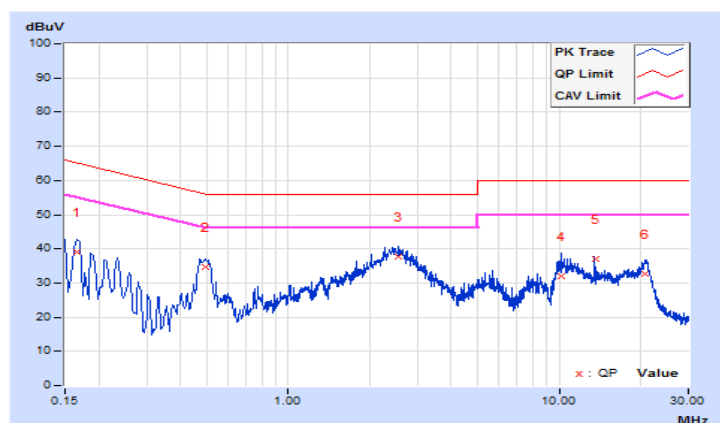


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/28                            |
| Test Mode       | Type B         |                                          |                                      |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.16579         | 9.65                   | 29.44                | 19.00 | 39.09                 | 28.65 | 65.17        | 55.17 | -26.08      | -26.52 |
| 2                            | 0.49606         | 9.67                   | 25.14                | 20.76 | 34.81                 | 30.43 | 56.07        | 46.07 | -21.26      | -15.64 |
| 3                            | 2.56600         | 9.78                   | 28.07                | 23.64 | 37.85                 | 33.42 | 56.00        | 46.00 | -18.15      | -12.58 |
| 4                            | 10.13800        | 9.91                   | 22.24                | 17.03 | 32.15                 | 26.94 | 60.00        | 50.00 | -27.85      | -23.06 |
| 5                            | 13.56200        | 9.96                   | 27.17                | 25.62 | 37.13                 | 35.58 | 60.00        | 50.00 | -22.87      | -14.42 |
| 6                            | 20.83400        | 10.03                  | 22.73                | 17.90 | 32.76                 | 27.93 | 60.00        | 50.00 | -27.24      | -22.07 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

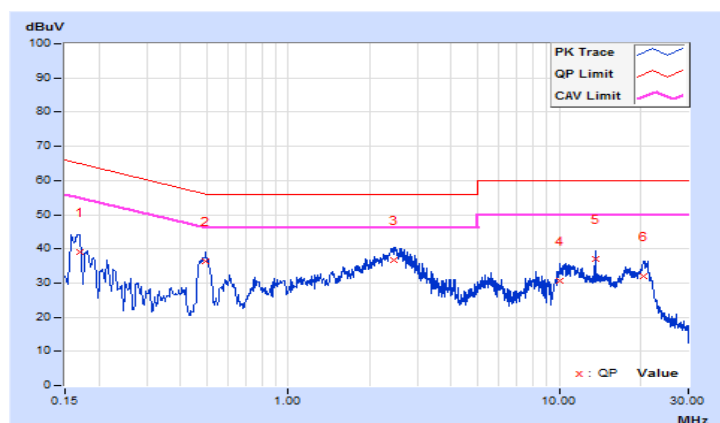


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/28                            |
| Test Mode       | Type F         |                                          |                                      |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.17000         | 9.63                   | 29.44                | 19.57 | 39.07                 | 29.20 | 64.96        | 54.96 | -25.89      | -25.76 |
| 2                         | 0.49737         | 9.65                   | 26.78                | 22.55 | 36.43                 | 32.20 | 56.04        | 46.04 | -19.61      | -13.84 |
| 3                         | 2.44200         | 9.74                   | 26.83                | 22.22 | 36.57                 | 31.96 | 56.00        | 46.00 | -19.43      | -14.04 |
| 4                         | 10.07400        | 9.87                   | 20.65                | 15.39 | 30.52                 | 25.26 | 60.00        | 50.00 | -29.48      | -24.74 |
| 5                         | 13.56200        | 9.89                   | 27.09                | 25.68 | 36.98                 | 35.57 | 60.00        | 50.00 | -23.02      | -14.43 |
| 6                         | 20.58600        | 9.91                   | 22.12                | 17.36 | 32.03                 | 27.27 | 60.00        | 50.00 | -27.97      | -22.73 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

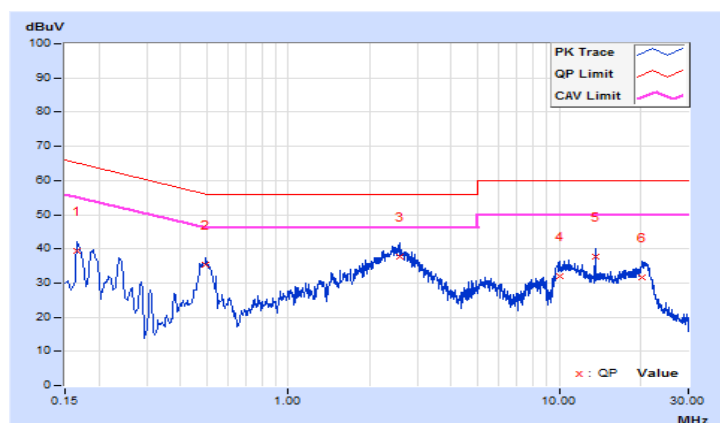


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/28                            |
| Test Mode       | Type F         |                                          |                                      |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.16600         | 9.65                   | 29.74                | 19.00 | 39.39                 | 28.65 | 65.16        | 55.16 | -25.77      | -26.51 |
| 2                            | 0.49800         | 9.67                   | 25.52                | 21.30 | 35.19                 | 30.97 | 56.03        | 46.03 | -20.84      | -15.06 |
| 3                            | 2.58600         | 9.78                   | 27.86                | 23.16 | 37.64                 | 32.94 | 56.00        | 46.00 | -18.36      | -13.06 |
| 4                            | 10.06600        | 9.91                   | 22.02                | 16.82 | 31.93                 | 26.73 | 60.00        | 50.00 | -28.07      | -23.27 |
| 5                            | 13.56200        | 9.96                   | 27.63                | 26.20 | 37.59                 | 36.16 | 60.00        | 50.00 | -22.41      | -13.84 |
| 6                            | 20.32600        | 10.03                  | 21.69                | 16.98 | 31.72                 | 27.01 | 60.00        | 50.00 | -28.28      | -22.99 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

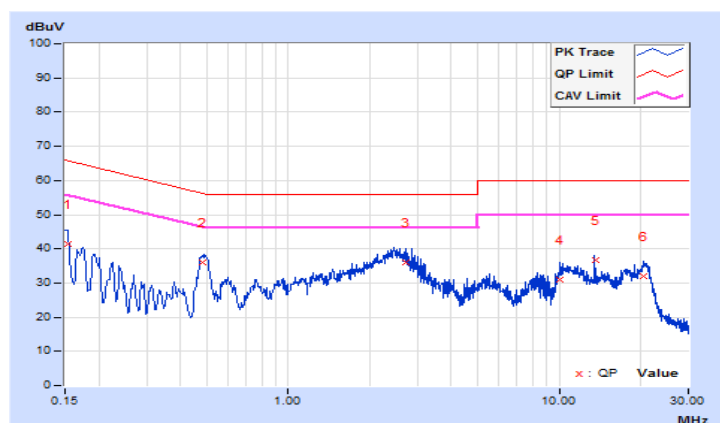


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/28                            |
| Test Mode       | Type V         |                                          |                                      |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15400         | 9.63                   | 31.75                | 21.21 | 41.38                 | 30.84 | 65.78        | 55.78 | -24.40      | -24.94 |
| 2                         | 0.48190         | 9.65                   | 26.44                | 21.40 | 36.09                 | 31.05 | 56.31        | 46.31 | -20.22      | -15.26 |
| 3                         | 2.71000         | 9.75                   | 26.12                | 21.07 | 35.87                 | 30.82 | 56.00        | 46.00 | -20.13      | -15.18 |
| 4                         | 10.09800        | 9.87                   | 21.03                | 15.73 | 30.90                 | 25.60 | 60.00        | 50.00 | -29.10      | -24.40 |
| 5                         | 13.56200        | 9.89                   | 26.92                | 25.44 | 36.81                 | 35.33 | 60.00        | 50.00 | -23.19      | -14.67 |
| 6                         | 20.60600        | 9.91                   | 22.16                | 17.45 | 32.07                 | 27.36 | 60.00        | 50.00 | -27.93      | -22.64 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

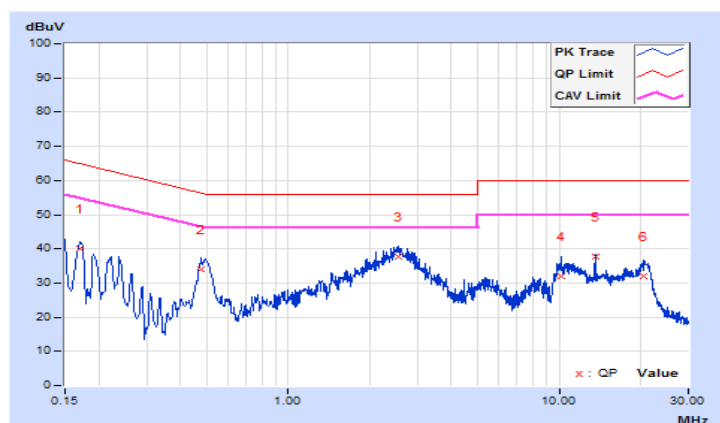


|                 |                |                                          |                                      |
|-----------------|----------------|------------------------------------------|--------------------------------------|
| Frequency Range | 150kHz ~ 30MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9kHz |
| Input Power     | 120Vac, 60Hz   | Environmental Conditions                 | 23°C, 67%RH                          |
| Tested by       | Adair Peng     | Test Date                                | 2020/4/28                            |
| Test Mode       | Type V         |                                          |                                      |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.17000         | 9.65                   | 30.29                | 18.68 | 39.94                 | 28.33 | 64.96        | 54.96 | -25.02      | -26.63 |
| 2                            | 0.47800         | 9.67                   | 24.43                | 19.88 | 34.10                 | 29.55 | 56.37        | 46.37 | -22.27      | -16.82 |
| 3                            | 2.55000         | 9.78                   | 27.90                | 23.27 | 37.68                 | 33.05 | 56.00        | 46.00 | -18.32      | -12.95 |
| 4                            | 10.20600        | 9.91                   | 22.09                | 16.99 | 32.00                 | 26.90 | 60.00        | 50.00 | -28.00      | -23.10 |
| 5                            | 13.56200        | 9.96                   | 27.61                | 26.14 | 37.57                 | 36.10 | 60.00        | 50.00 | -22.43      | -13.90 |
| 6                            | 20.43800        | 10.03                  | 22.07                | 17.32 | 32.10                 | 27.35 | 60.00        | 50.00 | -27.90      | -22.65 |

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



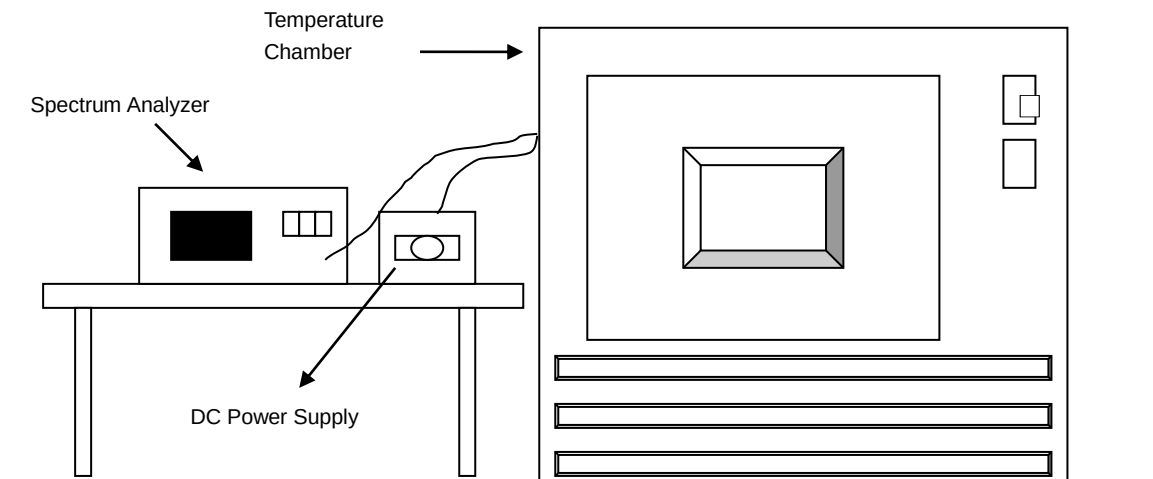


### 4.3 Frequency Stability

#### 4.3.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from  $85\%$  to  $115\%$  of the rated supply voltage at a temperature of  $20$  degrees C.

#### 4.3.2 Test Setup



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turned the EUT on and coupled its output to a spectrum analyzer.
- Turned the EUT off and set the chamber to the highest temperature specified.
- Allowed sufficient time (approximately 30 min) for the temperature of the chamber to stabilize then turned the EUT on and measured the operating frequency after 2, 5, and 10 minutes.
- Repeated step c and d with the every 10 degrees reduction until the lowest temperature achieved.
- The test chamber was allowed to stabilize at  $+20$  degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from  $85\%$  to  $115\%$  and the frequency record.

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Set the EUT under transmission condition continuously at specific channel frequency.

#### 4.3.7 Test Results

| Frequency Stability Versus Temperature |                          |                       |                    |                       |                    |                       |                    |                       |                    |
|----------------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|
| Temp.<br>(°C)                          | Power<br>Supply<br>(Vdc) | 0 Minute              |                    | 2 Minute              |                    | 5 Minute              |                    | 10 Minute             |                    |
|                                        |                          | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift |
|                                        |                          | (MHz)                 | %                  | (MHz)                 | %                  | (MHz)                 | %                  | (MHz)                 | %                  |
| 50                                     | 3.7                      | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55995              | -0.00037           |
| 40                                     | 3.7                      | 13.56002              | 0.00015            | 13.56003              | 0.00022            | 13.56003              | 0.00022            | 13.56002              | 0.00015            |
| 30                                     | 3.7                      | 13.55997              | -0.00022           | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55998              | -0.00015           |
| 20                                     | 3.7                      | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55995              | -0.00037           |
| 10                                     | 3.7                      | 13.55999              | -0.00007           | 13.55999              | -0.00007           | 13.55999              | -0.00007           | 13.55998              | -0.00015           |
| 0                                      | 3.7                      | 13.55996              | -0.00029           | 13.55997              | -0.00022           | 13.55996              | -0.00029           | 13.55996              | -0.00029           |
| -10                                    | 3.7                      | 13.56003              | 0.00022            | 13.56002              | 0.00015            | 13.56001              | 0.00007            | 13.56002              | 0.00015            |
| -20                                    | 3.7                      | 13.56004              | 0.00029            | 13.56005              | 0.00037            | 13.56005              | 0.00037            | 13.56006              | 0.00044            |

| Frequency Stability Versus Voltage |                          |                       |                    |                       |                    |                       |                    |                       |                    |
|------------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|
| Temp.<br>(°C)                      | Power<br>Supply<br>(Vdc) | 0 Minute              |                    | 2 Minute              |                    | 5 Minute              |                    | 10 Minute             |                    |
|                                    |                          | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift |
|                                    |                          | (MHz)                 | %                  | (MHz)                 | %                  | (MHz)                 | %                  | (MHz)                 | %                  |
| 20                                 | 4.255                    | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55995              | -0.00037           |
|                                    | 3.7                      | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55995              | -0.00037           |
|                                    | 3.145                    | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55996              | -0.00029           | 13.55995              | -0.00037           |

#### **4.4 20 dB Bandwidth**

##### **4.4.1 Limits of 20 dB Bandwidth Measurement**

The 20 dB bandwidth shall be specified in operating frequency band.

##### **4.4.2 Test Setup**

Refer to section 4.1.5.

##### **4.4.3 Test Instruments**

Refer to section 4.1.2 to get information of above instrument.

##### **4.4.4 Test Procedures**

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1 kHz RBW and 3 kHz VBW. The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

##### **4.4.5 Deviation from Test Standard**

No deviation.

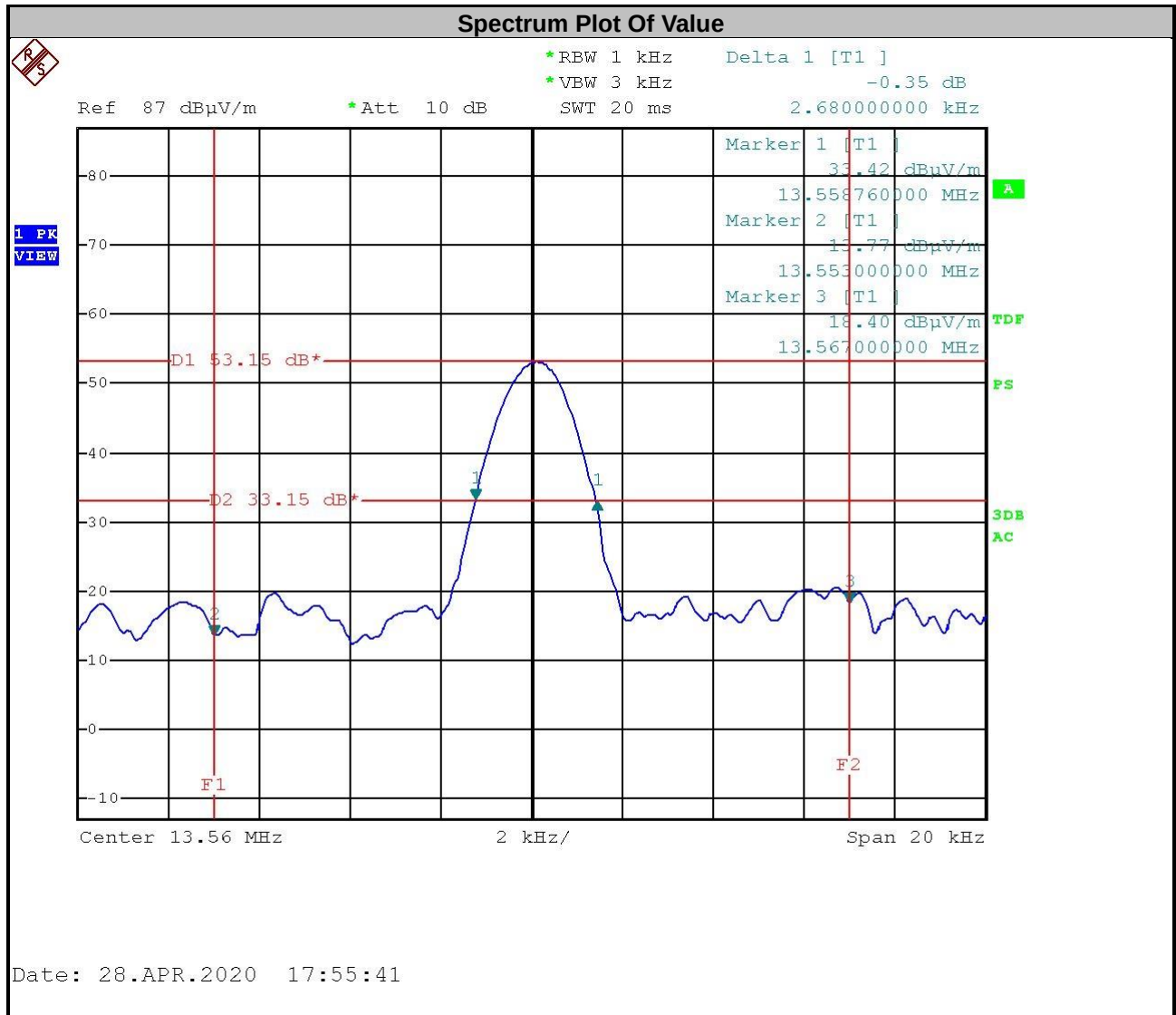
##### **4.4.6 EUT Operating Conditions**

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

#### 4.4.7 Test Results

##### Type A

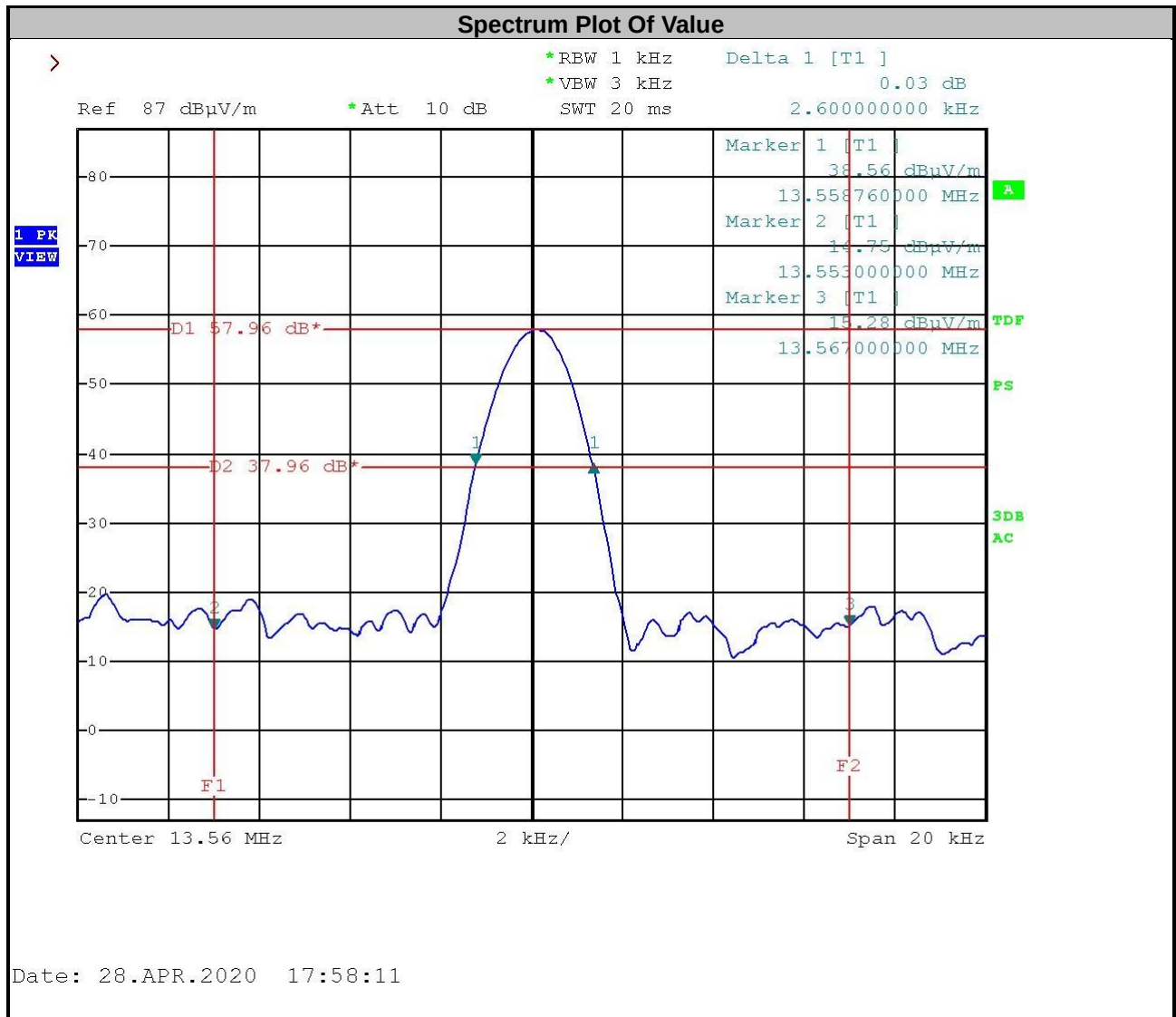
| 20 dBc Point (Low) | 20 dBc Point (High) | Operating Frequency Band (MHz) | 20 dBc Bandwidth (kHz) | Pass / Fail |
|--------------------|---------------------|--------------------------------|------------------------|-------------|
| 13.55876 MHz       | 13.56144 MHz        | 13.553~13.567                  | 2.68                   | Pass        |



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

## Type B

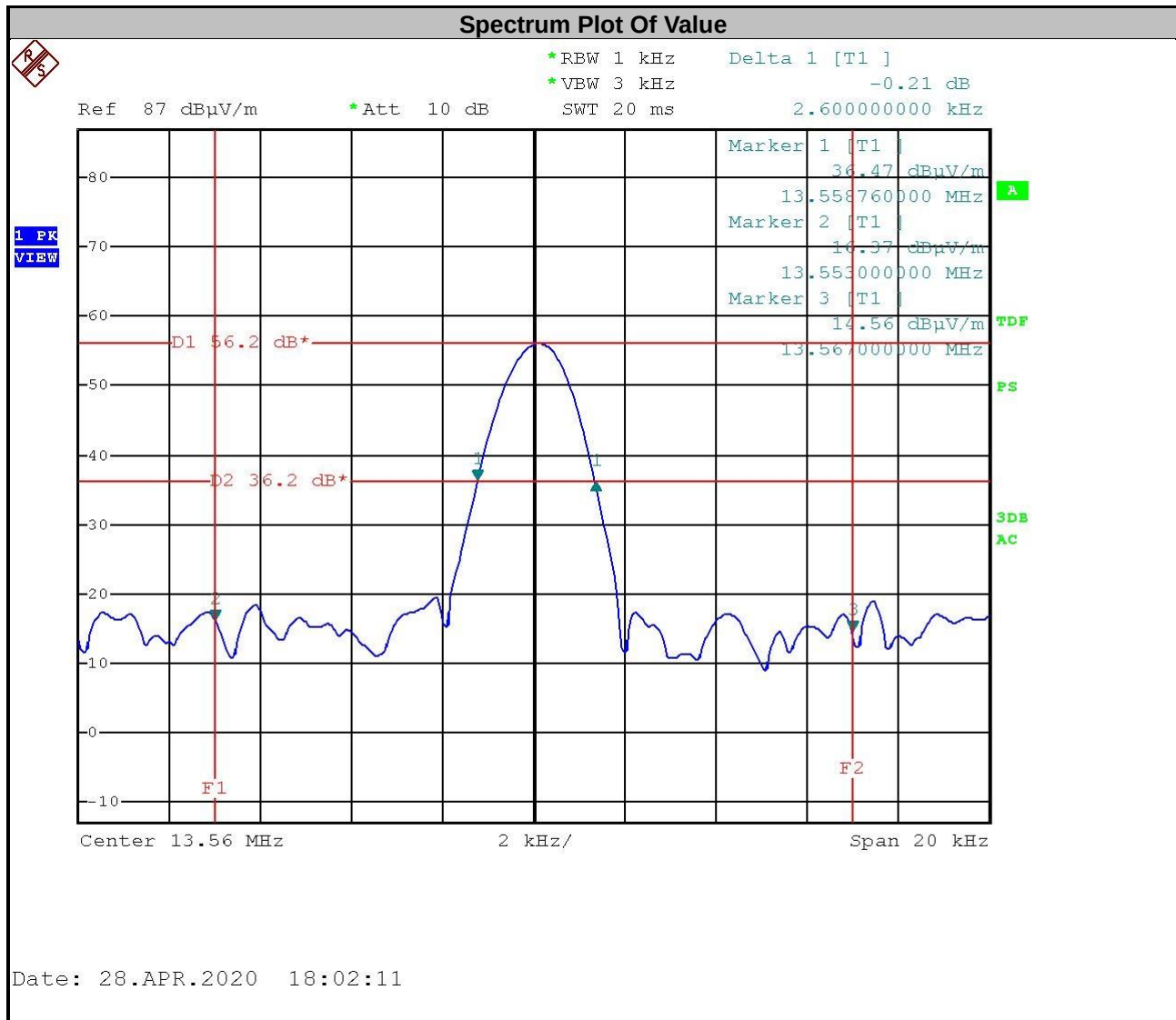
| 20 dBc Point (Low) | 20 dBc Point (High) | Operating Frequency Band (MHz) | 20 dBc Bandwidth (kHz) | Pass / Fail |
|--------------------|---------------------|--------------------------------|------------------------|-------------|
| 13.55876 MHz       | 13.56136 MHz        | 13.553~13.567                  | 2.60                   | Pass        |



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

## Type F

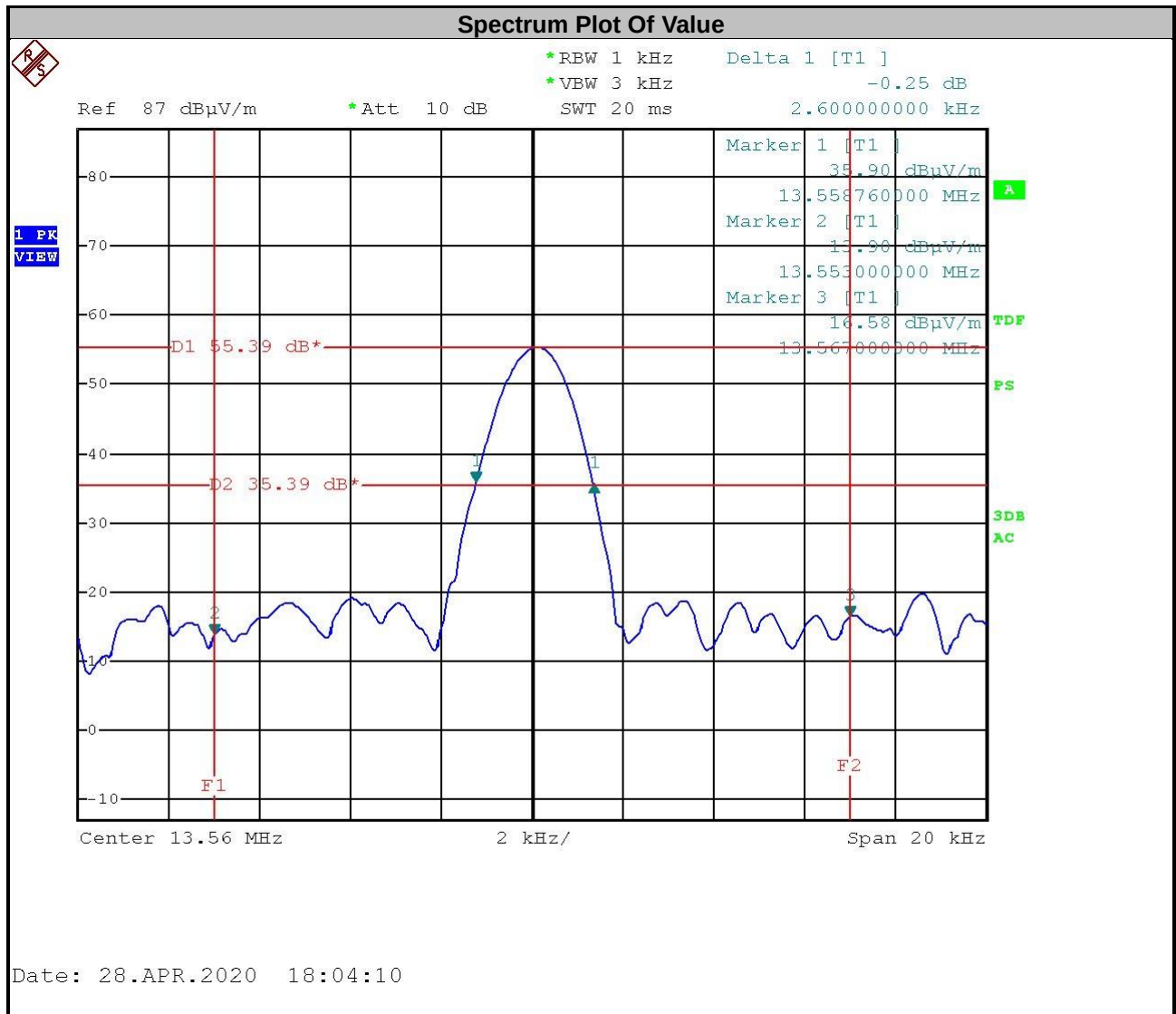
| 20 dBc Point (Low) | 20 dBc Point (High) | Operating Frequency Band (MHz) | 20 dBc Bandwidth (kHz) | Pass / Fail |
|--------------------|---------------------|--------------------------------|------------------------|-------------|
| 13.55876 MHz       | 13.56136 MHz        | 13.553~13.567                  | 2.60                   | Pass        |



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

## Type V

| 20 dBc Point (Low) | 20 dBc Point (High) | Operating Frequency Band (MHz) | 20 dBc Bandwidth (kHz) | Pass / Fail |
|--------------------|---------------------|--------------------------------|------------------------|-------------|
| 13.55876 MHz       | 13.56136 MHz        | 13.553~13.567                  | 2.60                   | Pass        |



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).



## Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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