



# FCC RADIO TEST REPORT

FCC ID : UZ7WT63B0  
Equipment : WT6300 Wearable Computer  
Brand Name : Zebra  
Model Name : WT63B0  
Applicant : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742  
Manufacturer : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742  
Standard : FCC Part 15 Subpart C §15.225

The product was received on Aug. 12, 2020 and testing was started from Aug. 26, 2020 and completed on Sep. 16, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Reviewed by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FR072944D  | 01      | Initial issue of report | Sep. 29, 2020 |
|            |         |                         |               |
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## Summary of Test Result

| Report Clause | Ref Std. Clause     | Test Items                              | Result (PASS/FAIL) | Remark                                          |
|---------------|---------------------|-----------------------------------------|--------------------|-------------------------------------------------|
| 3.1           | 15.207              | AC Power Line Conducted Emissions       | Pass               | Under limit<br>6.25 dB at<br>0.752MHz           |
| 3.2           | 15.215(c)           | 20dB Spectrum Bandwidth                 | Pass               | -                                               |
|               | 2.1049              | 99% OBW Spectrum Bandwidth              | Reporting only     | -                                               |
| 3.3           | 15.225(e)           | Frequency Stability                     | Pass               | -                                               |
| 3.4           | 15.225(a)(b)(c)     | Field Strength of Fundamental Emissions | Pass               | Max level<br>28.6 dB $\mu$ V/m at<br>13.560 MHz |
| 3.5           | 15.225(d)<br>15.209 | Radiated Spurious Emissions             | Pass               | Under limit<br>7.09 dB at<br>95.960MHz          |
| 3.6           | 15.203              | Antenna Requirements                    | Pass               | -                                               |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang**

**Report Producer: Vivian Hsu**



# 1. General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------|
| Equipment                       | WT6300 Wearable Computer                                                              |
| Brand Name                      | Zebra                                                                                 |
| Model Name                      | WT63B0                                                                                |
| FCC ID                          | UZ7WT63B0                                                                             |
| EUT supports Radios application | NFC<br>WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE |
| HW Version                      | EV2.5                                                                                 |
| SW Version                      | 10-14-10.00-QC-U01-PRD-HEL-04                                                         |
| OS Version                      | Android 10                                                                            |
| FW Version                      | FUSION_QA_2_1.3.0.006_Q                                                               |
| MFD                             | 29JUL20                                                                               |
| EUT Stage                       | Engineering Sample                                                                    |

**Remark:** The above EUT's information was declared by manufacturer.

| Specification of Accessories |            |       |             |                    |
|------------------------------|------------|-------|-------------|--------------------|
| AC Adapter 1                 | Brand Name | Zebra | Part Number | PWR-WUA5V12W0US    |
| AC Adapter 2                 | Brand Name | Zebra | Part Number | PWR-WUA5V12W0WW    |
| AC Adapter 3                 | Brand Name | Zebra | Part Number | PWR-BUA5V16W0WW    |
| Battery 1                    | Brand Name | Zebra | Part Number | BT000262A01        |
| Battery 2                    | Brand Name | Zebra | Part Number | BT-000262-50       |
| Battery 3                    | Brand Name | Zebra | Part Number | BT-000362-00       |
| AC Power Cable               | Brand Name | Zebra | Part Number | 50-16000-182R      |
| DC Cable                     | Brand Name | Zebra | Part Number | CBL-DC-383A1-01    |
| USB Cable                    | Brand Name | Zebra | Part Number | CBL-NGWT-USBCHG-01 |
| Vibrating Cable              | Brand Name | Zebra | Part Number | CBL-NGWT-HDVBAP-01 |
| Audio Cable 1                | Brand Name | Zebra | Part Number | CBL-HS2100-12S1-01 |
| Audio Cable 2                | Brand Name | Zebra | Part Number | CBL-HS3100-CUC1-01 |
| Keyboard                     | Brand Name | Zebra | Part Number | KYPD-WT6XANFASM-01 |
| Scanner 1                    | Brand Name | Zebra | Part Number | RS51B0-TBSNWR      |
| Scanner 2                    | Brand Name | Zebra | Part Number | RS60B0-SRSTWR      |
| Scanner 3                    | Brand Name | Zebra | Part Number | RS4000-HPCSWR      |
| Scanner 4                    | Brand Name | Zebra | Part Number | RS5000-LCFSWR      |
| Earphone 1                   | Brand Name | Zebra | Part Number | HS2100-OTH         |
| Earphone 2                   | Brand Name | Zebra | Part Number | HS3100-OTH         |
| Wrist Mount                  | Brand Name | Zebra | Part Number | SG-NGWT-WRMTS-01   |
| Wrist Mount                  | Brand Name | Zebra | Part Number | SG-NGWT-WRMTL-01   |
| Wrist Mount                  | Brand Name | Zebra | Part Number | SG-NGWT-WRMTXL-01  |
| Hip Mount                    | Brand Name | Zebra | Part Number | SG-NGWT-HPMNT-01   |

## 1.2 Product Specification of Equipment Under Test

| Product Specification subjective to this standard |                    |
|---------------------------------------------------|--------------------|
| Tx/Rx Frequency Range                             | 13.553 ~ 13.567MHz |
| Channel Number                                    | 1                  |
| 20dBW                                             | 2.66 KHz           |
| 99%OBW                                            | 2.26 KHz           |
| Antenna Type                                      | Loop Antenna       |
| Type of Modulation                                | ASK                |

## 1.3 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.4 Testing Location

|                    |                                                                                                                       |                          |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                   |                          |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |                          |
| Test Site No.      | Sporton Site No.                                                                                                      |                          |
|                    | TH03-HY                                                                                                               | CO05-HY                  |
| Test Engineer      | Louis Chung                                                                                                           | Tom Lee and Howard Huang |
| Temperature        | 20.4°C                                                                                                                | 24~26°C                  |
| Relative Humidity  | 63.3%                                                                                                                 | 42~50%                   |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

|                    |                                                                                                                                        |  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|--|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                                    |  |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |  |
| Test Site No.      | Sporton Site No.                                                                                                                       |  |
|                    | 03CH11-HY                                                                                                                              |  |
| Test Engineer      | Fu Chen                                                                                                                                |  |
| Temperature        | 19.8~23.7°C                                                                                                                            |  |
| Relative Humidity  | 57.4~66.8%                                                                                                                             |  |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW0007



## 1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.225
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2. Test Configuration of Equipment Under Test

### 2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations.

The following table is a list of the test modes shown in this test report.

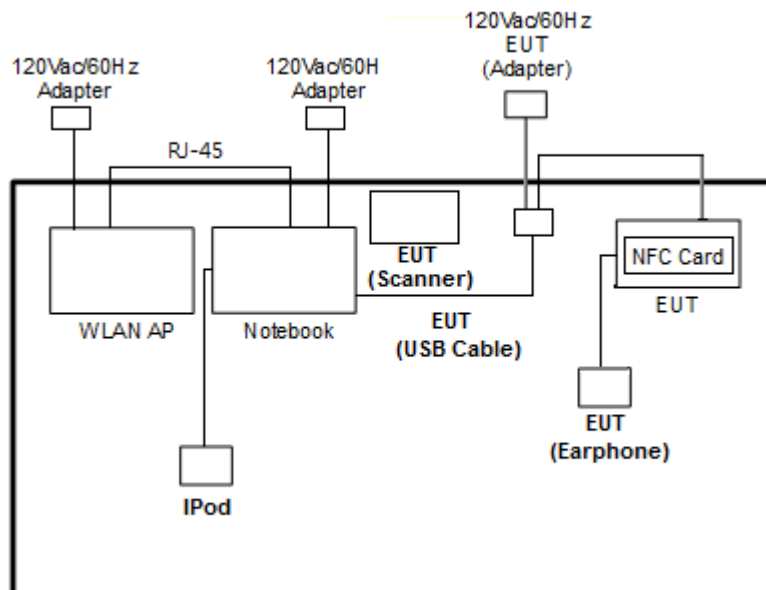
| Test Items                        |                                         |
|-----------------------------------|-----------------------------------------|
| AC Power Line Conducted Emissions | Field Strength of Fundamental Emissions |
| 20dB Spectrum Bandwidth           | Frequency Stability                     |
| Radiated Emissions 9kHz~30MHz     | Radiated Emissions 30MHz~1GHz           |

The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Z plane as worst plane) from all possible combinations.

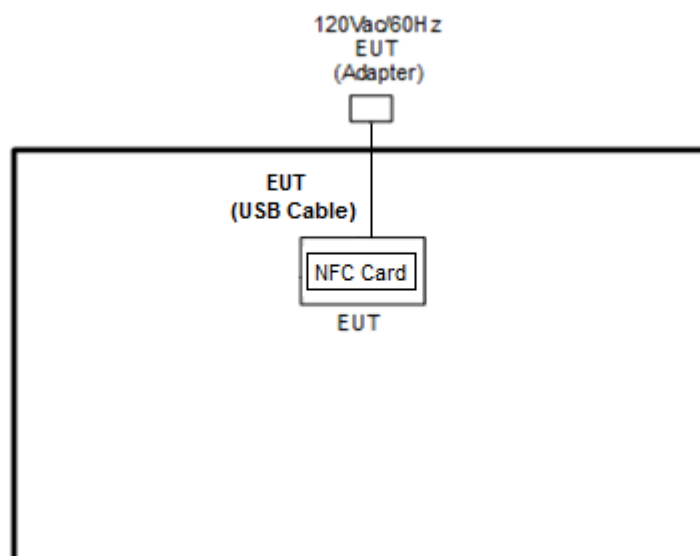
| Test Cases                                                                                                                                                                                           |                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC<br/>Conducted<br/>Emission</b>                                                                                                                                                                 | Mode 1 : WLAN (2.4GHz) Idle + Bluetooth Idle + NFC Link + Color Bar + Battery<br>1 + Scanner 1 + Earphone 1 + Audio Cable 1 + USB Cable (Data Link with<br>Notebook) + AC Adapter 3 |
| <b>Remark:</b><br>1. Data Link with Notebook means data application transferred mode between EUT and<br>Notebook.<br>2. For Radiated Test Cases, the tests were performed with Adapter 1, Battery 1. |                                                                                                                                                                                     |

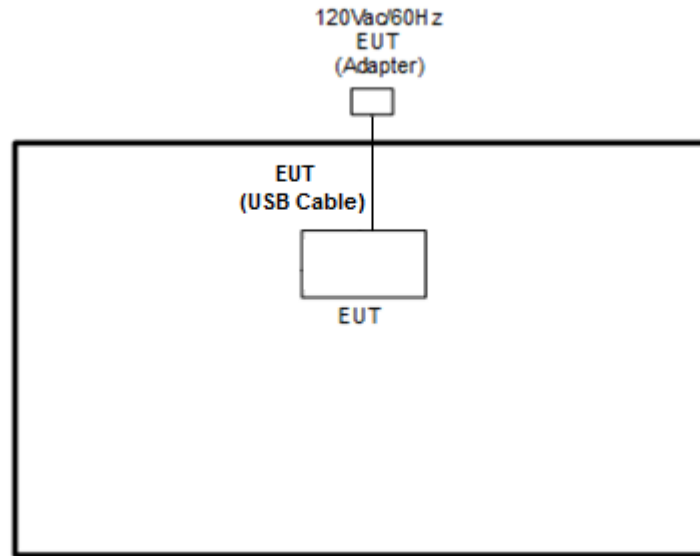
## 2.2 Connection Diagram of Test System

### <AC Conducted Emission Mode>



### <Radiated Emission Mode with NFC Card>



**<Radiated Emission Mode with Tx Tool>**

**2.3 Table for Supporting Units**

| Item | Equipment | Brand Name   | Model Name    | FCC ID      | Data Cable      | Power Cord                                                 |
|------|-----------|--------------|---------------|-------------|-----------------|------------------------------------------------------------|
| 1.   | WLAN AP   | ASUS         | RT-AC66U      | MSQ-RTAC66U | N/A             | Unshielded, 1.8 m                                          |
| 2.   | iPod      | Apple        | A1285         | FCC DoC     | Shielded, 1.0 m | N/A                                                        |
| 3.   | Notebook  | Dell         | Latitude 3400 | FCC DOC     | N/A             | AC I/P :<br>Unshielded, 1.2m<br>DC O/P :<br>Shielded, 1.8m |
| 4.   | NFC Card  | Metro Taipei | Easy Card     | N/A         | N/A             | N/A                                                        |

**2.4 EUT Operation Test Setup**

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card (Type A/B/V), is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 0 cm gap to the EUT.

The RF test items, utility "Git Bash Here v2.26.2" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level (Power setting: Default), data rate (Type F Bit Rate: 424kbps) and the application type and for continuous transmitting signals.

### 3. Test Results

#### 3.1 AC Power Line Conducted Emissions Measurement

##### 3.1.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of Emission<br>(MHz) | Conducted Limit (dB $\mu$ V) |           |
|--------------------------------|------------------------------|-----------|
|                                | Quasi-Peak                   | Average   |
| 0.15-0.5                       | 66 to 56*                    | 56 to 46* |
| 0.5-5                          | 56                           | 46        |
| 5-30                           | 60                           | 50        |

\*Decreases with the logarithm of the frequency.

For terminal test result, the testing follows FCC KDB 174176.

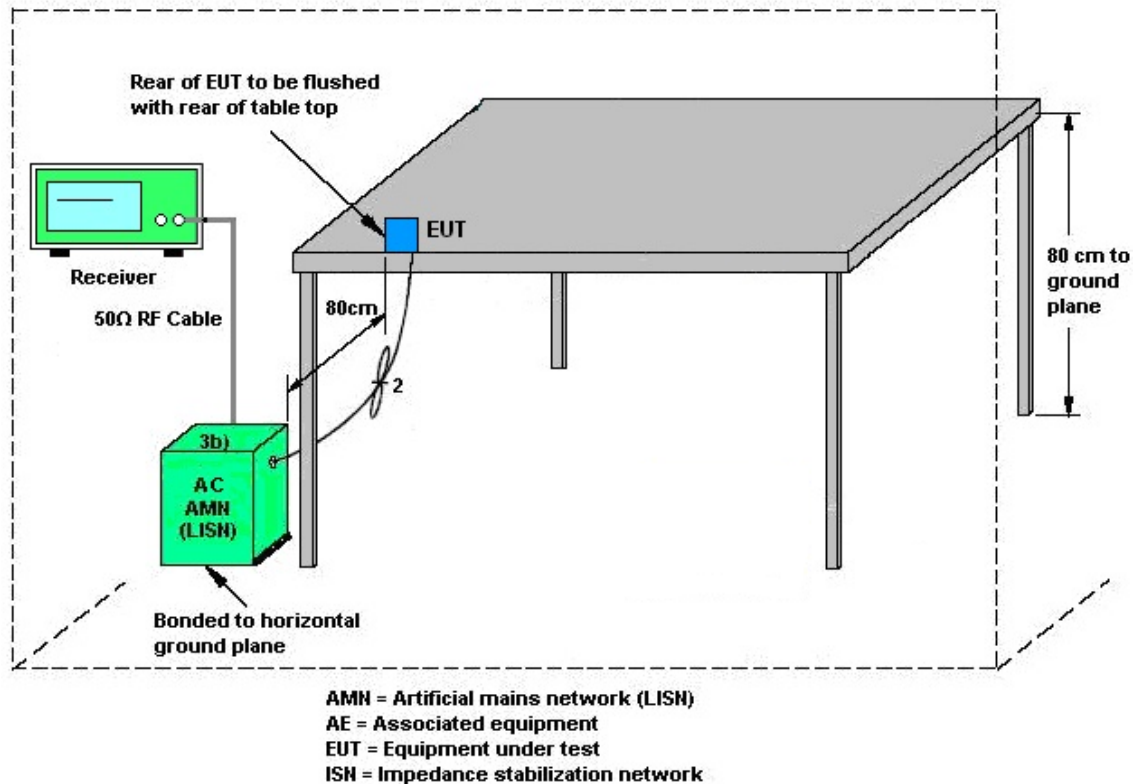
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.1.4 Test setup



### 3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

**Note:**

(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

(2) with dummy load

Remark: Only the fundamental NFC signal needs to be retested per C63.4.

## 3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

### 3.2.1 Limit

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

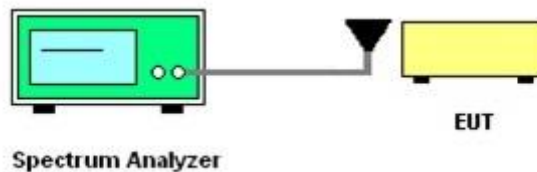
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

### 3.3 Frequency Stability Measurement

#### 3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) 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. For battery operated equipment, the equipment tests shall be performed using a new battery.

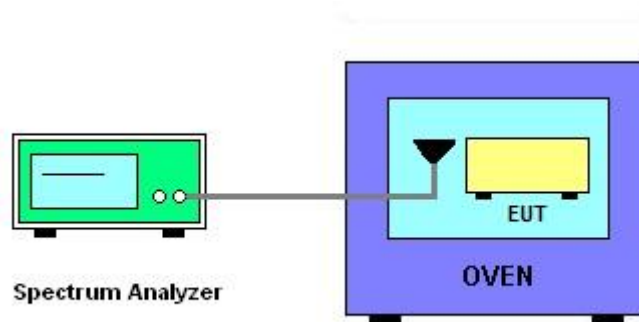
#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
2. EUT have transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The  $f_c$  is declaring of channel frequency. Then the frequency error formula is  $(f_c - f)/f_c \times 10^6$  ppm and the limit is less than  $\pm 100$ ppm.
6. Extreme temperature rule is -20°C~50°C.

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.

### 3.4 Field Strength of Fundamental Emissions and Mask Measurement

#### 3.4.1 Limit

| Rules and specifications | FCC CFR 47 Part 15 section 15.225                                 |                                         |                                         |                                        |
|--------------------------|-------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|
| Description              | Compliance with the spectrum mask is tested with RBW set to 9kHz. |                                         |                                         |                                        |
| Freq. of Emission (MHz)  | Field Strength<br>( $\mu$ V/m) at 30m                             | Field Strength<br>(dB $\mu$ V/m) at 30m | Field Strength<br>(dB $\mu$ V/m) at 10m | Field Strength<br>(dB $\mu$ V/m) at 3m |
| 1.705~13.110             | 30                                                                | 29.5                                    | 48.58                                   | 69.5                                   |
| 13.110~13.410            | 106                                                               | 40.5                                    | 59.58                                   | 80.5                                   |
| 13.410~13.553            | 334                                                               | 50.5                                    | 69.58                                   | 90.5                                   |
| 13.553~13.567            | 15848                                                             | 84.0                                    | 103.08                                  | 124.0                                  |
| 13.567~13.710            | 334                                                               | 50.5                                    | 69.58                                   | 90.5                                   |
| 13.710~14.010            | 106                                                               | 40.5                                    | 59.58                                   | 80.5                                   |
| 14.010~30.000            | 30                                                                | 29.5                                    | 48.58                                   | 69.5                                   |

#### 3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

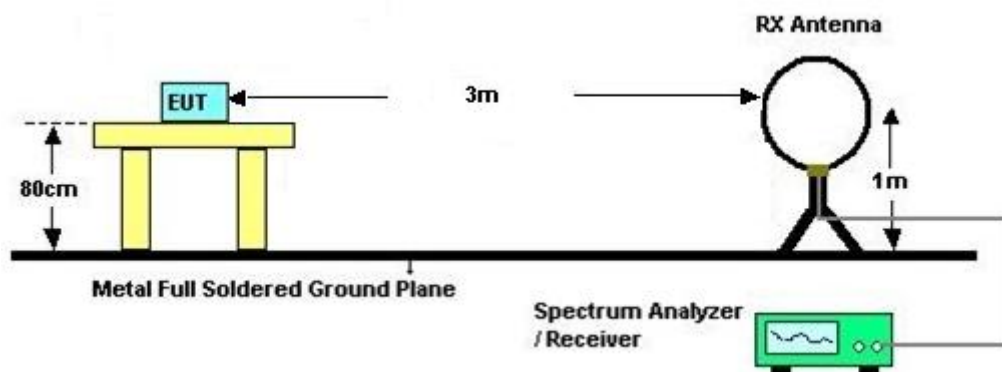
### 3.4.3 Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure QP reading.
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
6. Compliance with the spectrum mask is tested with RBW set to 9kHz.

Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).

### 3.4.4 Test Setup

For radiated emissions below 30MHz



### 3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

### 3.5 Radiated Emissions Measurement

#### 3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

| Frequencies<br>(MHz) | Field Strength<br>( $\mu$ V/m) | Measurement Distance<br>(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                                |

#### 3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.5.3 Measuring Instrument Setting

The following table is the setting of receiver:

| Receiver Parameter             | Setting             |
|--------------------------------|---------------------|
| Attenuation                    | Auto                |
| Frequency Range: 9kHz~150kHz   | RBW 200Hz for QP    |
| Frequency Range: 150kHz~30MHz  | RBW 9kHz for QP     |
| Frequency Range: 30MHz~1000MHz | RBW 120kHz for Peak |

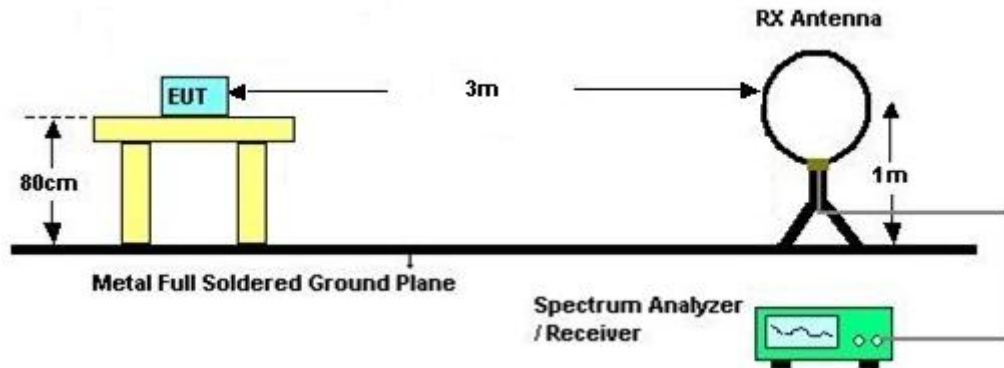
**Note:** The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz and 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

### **3.5.4 Test Procedures**

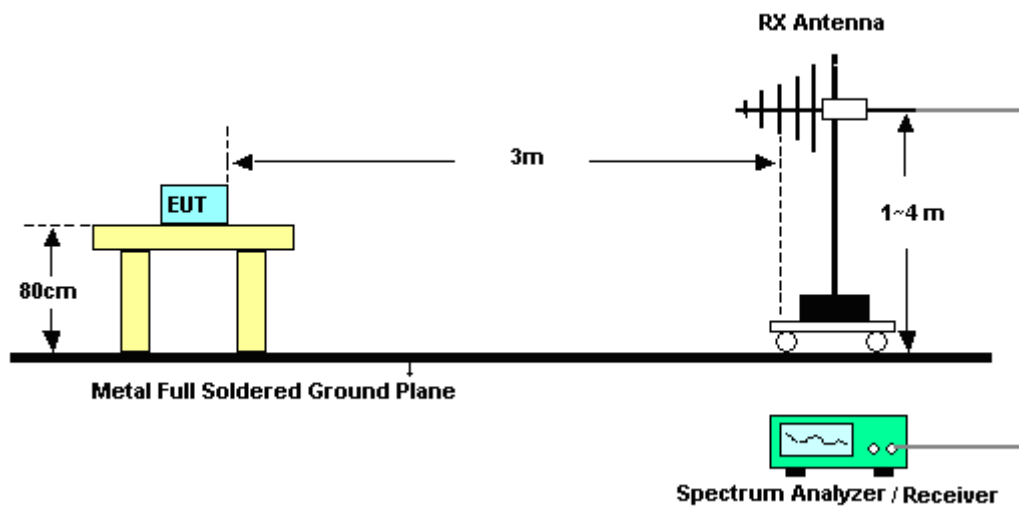
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver.

### 3.5.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



### 3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.

**Remark:** There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## **3.6 Antenna Requirements**

### **3.6.1 Standard Applicable**

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **3.6.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



## 4. List of Measuring Equipment

| Instrument        | Brand Name         | Model No.             | Serial No.          | Characteristics                  | Calibration Date | Test Date                       | Due Date      | Remark                   |
|-------------------|--------------------|-----------------------|---------------------|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Software          | Audix              | E3<br>6.2009-8-24     | RK-001053           | N/A                              | N/A              | Sep. 15, 2020~<br>Sep. 16, 2020 | N/A           | Radiation<br>(03CH11-HY) |
| Amplifier         | SONOMA             | 310N                  | 187312              | 9kHz~1GHz                        | Dec. 03, 2019    | Sep. 15, 2020~<br>Sep. 16, 2020 | Dec. 02, 2020 | Radiation<br>(03CH11-HY) |
| Bilog Antenna     | TESEQ              | CBL 6111D &<br>N-6-06 | 35414 &<br>AT-N0602 | 30MHz~1GHz                       | Oct. 12, 2019    | Sep. 15, 2020~<br>Sep. 16, 2020 | Oct. 11, 2020 | Radiation<br>(03CH11-HY) |
| Loop Antenna      | Rohde &<br>Schwarz | HFH2-Z2               | 100488              | 9 kHz~30 MHz                     | Jul. 14, 2020    | Sep. 15, 2020~<br>Sep. 16, 2020 | Jul. 13, 2021 | Radiation<br>(03CH11-HY) |
| Controller        | EMEC               | EM 1000               | N/A                 | Control Turn<br>table & Ant Mast | N/A              | Sep. 15, 2020~<br>Sep. 16, 2020 | N/A           | Radiation<br>(03CH11-HY) |
| Antenna Mast      | EMEC               | AM-BS-4500-B          | N/A                 | 1~4m                             | N/A              | Sep. 15, 2020~<br>Sep. 16, 2020 | N/A           | Radiation<br>(03CH11-HY) |
| Turn Table        | EMEC               | TT 2000               | N/A                 | 0~360 Degree                     | N/A              | Sep. 15, 2020~<br>Sep. 16, 2020 | N/A           | Radiation<br>(03CH11-HY) |
| EMI Test Receiver | Agilent            | N9038A(MXE)           | MY532900<br>45      | 20MHz~8.4GHz                     | Jan. 18, 2020    | Sep. 15, 2020~<br>Sep. 16, 2020 | Jan. 17, 2021 | Radiation<br>(03CH11-HY) |
| Spectrum Analyzer | Keysight           | N9010A                | MY542004<br>86      | 10Hz~44GHz                       | Oct. 28, 2019    | Sep. 15, 2020~<br>Sep. 16, 2020 | Oct. 27, 2020 | Radiation<br>(03CH11-HY) |
| Filter            | Wainwright         | WHK20/1000C<br>7/40SS | SN2                 | 20M High Pass                    | Sep. 14, 2020    | Sep. 15, 2020~<br>Sep. 16, 2020 | Sep. 13, 2021 | Radiation<br>(03CH11-HY) |
| RF Cable          | HUBER +<br>SUHNER  | SUCOFLEX<br>104       | MY9837/4<br>PE      | 9kHz-30MHz                       | Mar. 12, 2020    | Sep. 15, 2020~<br>Sep. 16, 2020 | Mar. 11, 2021 | Radiation<br>(03CH11-HY) |
| RF Cable          | HUBER +<br>SUHNER  | SUCOFLEX<br>104       | MY9837/4<br>PE      | 30M-18G                          | Mar. 12, 2020    | Sep. 15, 2020~<br>Sep. 16, 2020 | Mar. 11, 2021 | Radiation<br>(03CH11-HY) |
| RF Cable          | HUBER +<br>SUHNER  | SUCOFLEX<br>102       | MY2859/2            | 30MHz-40GHz                      | Mar. 12, 2020    | Sep. 15, 2020~<br>Sep. 16, 2020 | Mar. 11, 2021 | Radiation<br>(03CH11-HY) |
| Hygrometer        | TECPEL             | DTN-303B              | TP140325            | N/A                              | Nov. 07, 2019    | Sep. 15, 2020~<br>Sep. 16, 2020 | Nov. 06, 2020 | Radiation<br>(03CH11-HY) |
| AC Power Source   | ChainTek           | APC-1000W             | N/A                 | N/A                              | N/A              | Aug. 26, 2020~<br>Sep. 08, 2020 | N/A           | Conduction<br>(CO05-HY)  |
| EMI Test Receiver | Rohde &<br>Schwarz | ESR3                  | 102388              | 9kHz~3.6GHz                      | Nov. 15, 2019    | Aug. 26, 2020~<br>Sep. 08, 2020 | Nov. 14, 2020 | Conduction<br>(CO05-HY)  |
| Hygrometer        | Testo              | 608-H1                | 34913912            | N/A                              | Nov. 07, 2019    | Aug. 26, 2020~<br>Sep. 08, 2020 | Nov. 06, 2020 | Conduction<br>(CO05-HY)  |
| LISN              | Rohde &<br>Schwarz | ENV216                | 100080              | 9kHz~30MHz                       | Nov. 20, 2019    | Aug. 26, 2020~<br>Sep. 08, 2020 | Nov. 19, 2020 | Conduction<br>(CO05-HY)  |
| LISN              | Rohde &<br>Schwarz | ENV216                | 100081              | 9kHz~30MHz                       | Nov. 15, 2019    | Aug. 26, 2020~<br>Sep. 08, 2020 | Nov. 14, 2020 | Conduction<br>(CO05-HY)  |
| Software          | Rohde &<br>Schwarz | EMC32<br>V10.30       | N/A                 | N/A                              | N/A              | Aug. 26, 2020~<br>Sep. 08, 2020 | N/A           | Conduction<br>(CO05-HY)  |
| LF Cable          | HUBER +<br>SUHNER  | RG-214/U              | LF01                | N/A                              | Jan. 02, 2020    | Aug. 26, 2020~<br>Sep. 08, 2020 | Jan. 01, 2021 | Conduction<br>(CO05-HY)  |
| Pulse Limiter     | Rohde &<br>Schwarz | ESH3-Z2               | 100851              | N/A                              | Jan. 02, 2020    | Aug. 26, 2020~<br>Sep. 08, 2020 | Jan. 01, 2021 | Conduction<br>(CO05-HY)  |



| Instrument          | Brand Name      | Model No. | Serial No.     | Characteristics | Calibration Date | Test Date     | Due Date      | Remark                 |
|---------------------|-----------------|-----------|----------------|-----------------|------------------|---------------|---------------|------------------------|
| AC Power Source     | AC POWER        | AFC-500W  | F10407001<br>1 | 50Hz~60Hz       | Apr. 09, 2020    | Sep. 05, 2020 | Apr. 08, 2021 | Conducted<br>(TH03-HY) |
| Hygrometer          | Testo           | 608-H1    | 34893241       | N/A             | Mar. 26, 2020    | Sep. 05, 2020 | Mar. 25, 2021 | Conducted<br>(TH03-HY) |
| Spectrum Analyzer   | Rohde & Schwarz | FSP40     | 100055         | 9kHz~40GHz      | Dec. 30, 2019    | Sep. 05, 2020 | Dec. 29, 2020 | Conducted<br>(TH03-HY) |
| Temperature Chamber | ESPEC           | SU-641    | 92013721       | -30°C ~70°C     | Nov. 26, 2019    | Sep. 05, 2020 | Nov. 25, 2020 | Conducted<br>(TH03-HY) |

## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 2.30 |
|----------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 3.12 |
|----------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 4.40 |
|----------------------------------------------------------------------------|------|



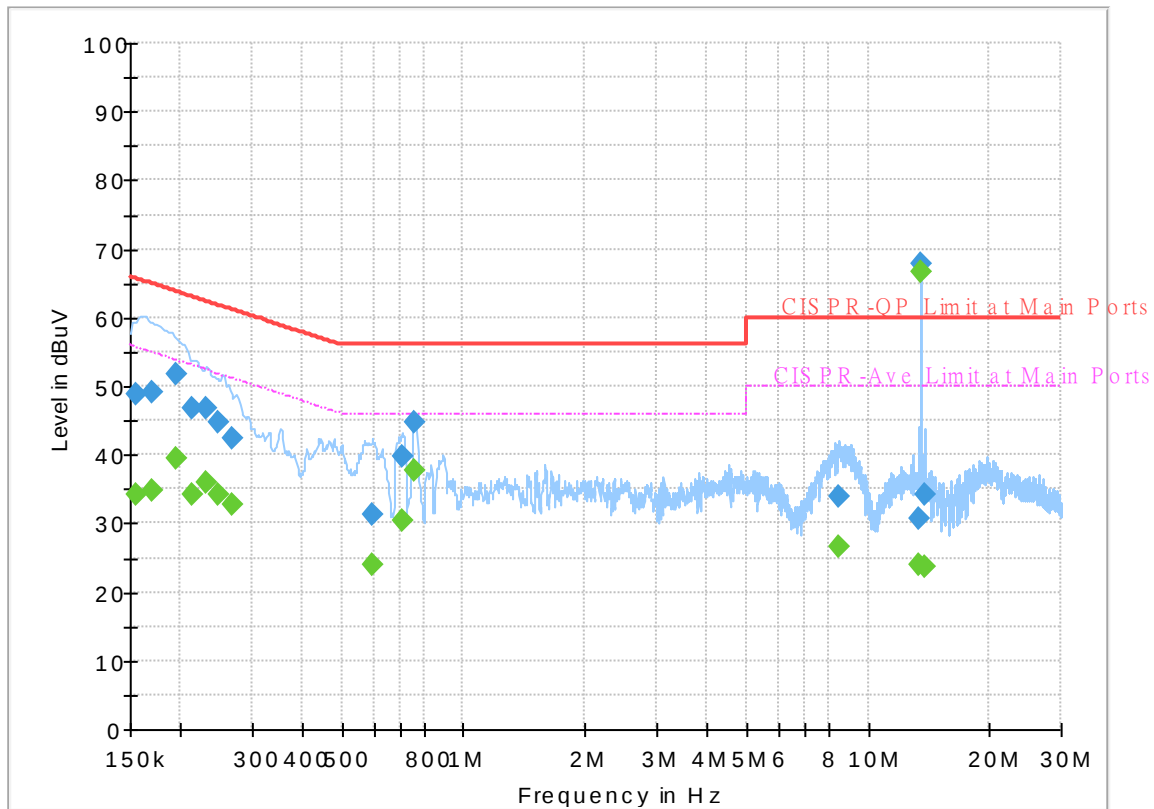
## **Appendix A. Test Results of Conducted Emission Test**

|                        |                          |                            |        |
|------------------------|--------------------------|----------------------------|--------|
| <b>Test Engineer :</b> | Tom Lee and Howard Huang | <b>Temperature :</b>       | 24~26℃ |
|                        |                          | <b>Relative Humidity :</b> | 42~50% |

## Original Mode

Report NO : 072944  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

Full Spectrum



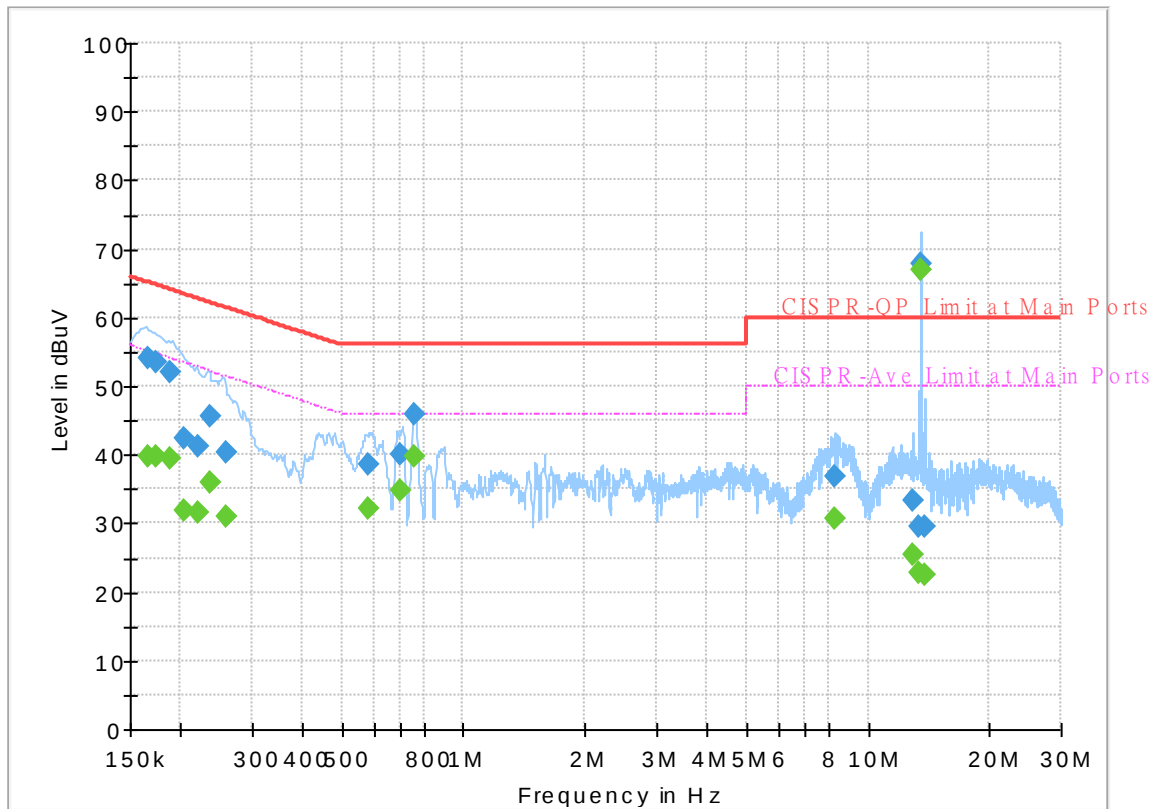
## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.154860        | ---              | 34.32           | 55.74        | 21.42       | L1   | OFF    | 19.5       |
| 0.154860        | 48.92            | ---             | 65.74        | 16.82       | L1   | OFF    | 19.5       |
| 0.170250        | ---              | 34.74           | 54.95        | 20.21       | L1   | OFF    | 19.5       |
| 0.170250        | 49.15            | ---             | 64.95        | 15.80       | L1   | OFF    | 19.5       |
| 0.195450        | ---              | 39.39           | 53.80        | 14.41       | L1   | OFF    | 19.5       |
| 0.195450        | 51.87            | ---             | 63.80        | 11.93       | L1   | OFF    | 19.5       |
| 0.213000        | ---              | 34.27           | 53.09        | 18.82       | L1   | OFF    | 19.5       |
| 0.213000        | 46.85            | ---             | 63.09        | 16.24       | L1   | OFF    | 19.5       |
| 0.231000        | ---              | 36.11           | 52.41        | 16.30       | L1   | OFF    | 19.5       |
| 0.231000        | 46.76            | ---             | 62.41        | 15.65       | L1   | OFF    | 19.5       |
| 0.249000        | ---              | 34.28           | 51.79        | 17.51       | L1   | OFF    | 19.5       |
| 0.249000        | 44.83            | ---             | 61.79        | 16.96       | L1   | OFF    | 19.5       |
| 0.269250        | ---              | 32.80           | 51.14        | 18.34       | L1   | OFF    | 19.5       |
| 0.269250        | 42.50            | ---             | 61.14        | 18.64       | L1   | OFF    | 19.5       |
| 0.594600        | ---              | 24.02           | 46.00        | 21.98       | L1   | OFF    | 19.5       |
| 0.594600        | 31.42            | ---             | 56.00        | 24.58       | L1   | OFF    | 19.5       |
| 0.706650        | ---              | 30.33           | 46.00        | 15.67       | L1   | OFF    | 19.5       |
| 0.706650        | 39.89            | ---             | 56.00        | 16.11       | L1   | OFF    | 19.5       |
| 0.753000        | ---              | 37.60           | 46.00        | 8.40        | L1   | OFF    | 19.5       |
| 0.753000        | 44.71            | ---             | 56.00        | 11.29       | L1   | OFF    | 19.5       |
| 8.477250        | ---              | 26.53           | 50.00        | 23.47       | L1   | OFF    | 19.8       |

|           |       |       |       |        |    |     |      |
|-----------|-------|-------|-------|--------|----|-----|------|
| 8.477250  | 33.96 | ---   | 60.00 | 26.04  | L1 | OFF | 19.8 |
| 13.353000 | ---   | 24.07 | 50.00 | 25.93  | L1 | OFF | 19.8 |
| 13.353000 | 30.58 | ---   | 60.00 | 29.42  | L1 | OFF | 19.8 |
| 13.560000 | ---   | 66.71 | 50.00 | -16.71 | L1 | OFF | 19.8 |
| 13.560000 | 67.92 | ---   | 60.00 | -7.92  | L1 | OFF | 19.8 |
| 13.776000 | ---   | 23.66 | 50.00 | 26.34  | L1 | OFF | 19.8 |
| 13.776000 | 34.11 | ---   | 60.00 | 25.89  | L1 | OFF | 19.8 |

Report NO : 072944  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

### Full Spectrum



### Final\_Result

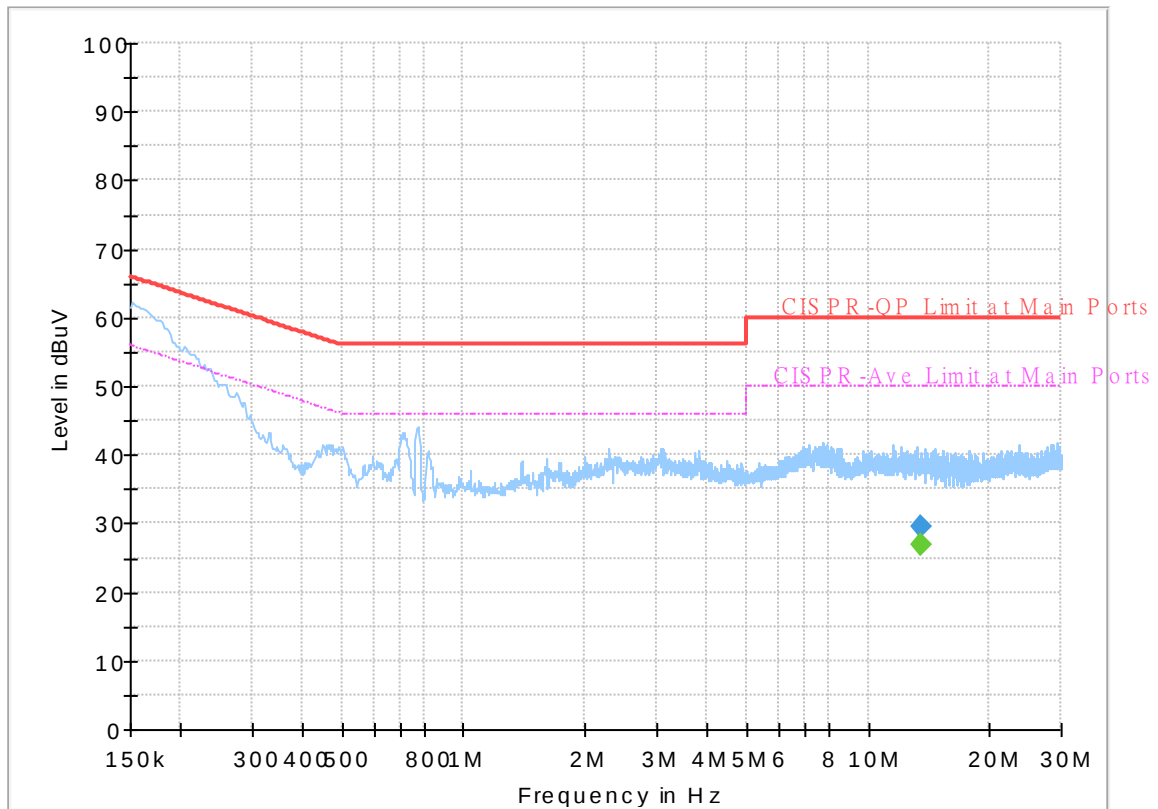
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.165390        | ---              | 39.81           | 55.19        | 15.38       | N    | OFF    | 19.5       |
| 0.165390        | 54.18            | ---             | 65.19        | 11.01       | N    | OFF    | 19.5       |
| 0.173400        | ---              | 39.80           | 54.80        | 15.00       | N    | OFF    | 19.5       |
| 0.173400        | 53.37            | ---             | 64.80        | 11.43       | N    | OFF    | 19.5       |
| 0.188250        | ---              | 39.60           | 54.11        | 14.51       | N    | OFF    | 19.5       |
| 0.188250        | 52.03            | ---             | 64.11        | 12.08       | N    | OFF    | 19.5       |
| 0.204000        | ---              | 31.81           | 53.45        | 21.64       | N    | OFF    | 19.5       |
| 0.204000        | 42.54            | ---             | 63.45        | 20.91       | N    | OFF    | 19.5       |
| 0.219750        | ---              | 31.49           | 52.83        | 21.34       | N    | OFF    | 19.5       |
| 0.219750        | 41.37            | ---             | 62.83        | 21.46       | N    | OFF    | 19.5       |
| 0.237750        | ---              | 35.91           | 52.17        | 16.26       | N    | OFF    | 19.5       |
| 0.237750        | 45.64            | ---             | 62.17        | 16.53       | N    | OFF    | 19.5       |
| 0.258000        | ---              | 30.91           | 51.50        | 20.59       | N    | OFF    | 19.5       |
| 0.258000        | 40.21            | ---             | 61.50        | 21.29       | N    | OFF    | 19.5       |
| 0.582000        | ---              | 32.19           | 46.00        | 13.81       | N    | OFF    | 19.5       |
| 0.582000        | 38.49            | ---             | 56.00        | 17.51       | N    | OFF    | 19.5       |
| 0.701250        | ---              | 34.93           | 46.00        | 11.07       | N    | OFF    | 19.5       |
| 0.701250        | 39.97            | ---             | 56.00        | 16.03       | N    | OFF    | 19.5       |
| 0.752370        | ---              | 39.75           | 46.00        | 6.25        | N    | OFF    | 19.6       |
| 0.752370        | 45.89            | ---             | 56.00        | 10.11       | N    | OFF    | 19.6       |
| 8.321550        | ---              | 30.81           | 50.00        | 19.19       | N    | OFF    | 19.8       |

|           |       |       |       |        |   |     |      |
|-----------|-------|-------|-------|--------|---|-----|------|
| 8.321550  | 36.75 | ---   | 60.00 | 23.25  | N | OFF | 19.8 |
| 12.927750 | ---   | 25.40 | 50.00 | 24.60  | N | OFF | 19.9 |
| 12.927750 | 33.32 | ---   | 60.00 | 26.68  | N | OFF | 19.9 |
| 13.353000 | ---   | 22.92 | 50.00 | 27.08  | N | OFF | 19.9 |
| 13.353000 | 29.55 | ---   | 60.00 | 30.45  | N | OFF | 19.9 |
| 13.560000 | ---   | 67.04 | 50.00 | -17.04 | N | OFF | 19.9 |
| 13.560000 | 67.72 | ---   | 60.00 | -7.72  | N | OFF | 19.9 |
| 13.767000 | ---   | 22.56 | 50.00 | 27.44  | N | OFF | 19.9 |
| 13.767000 | 29.63 | ---   | 60.00 | 30.37  | N | OFF | 19.9 |

## Terminal Mode

Report NO : 072944  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Line

Full Spectrum

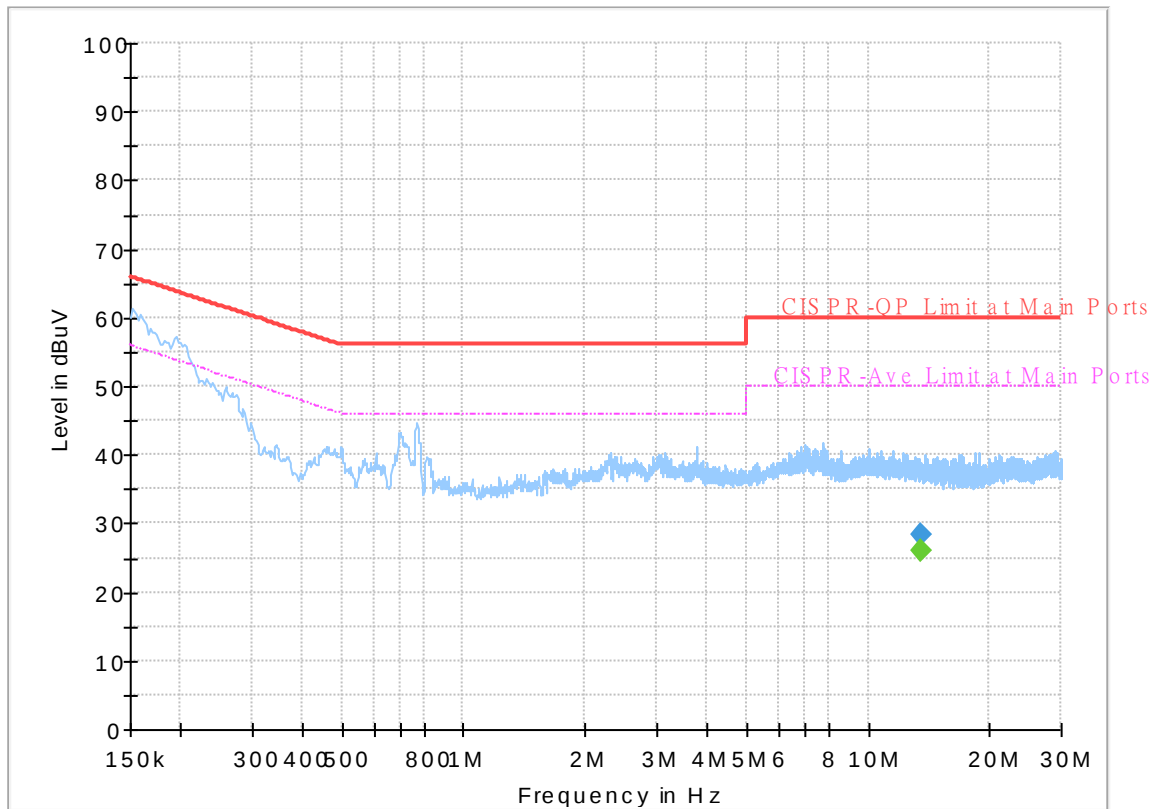


## Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 13.560000       | ---              | 26.94           | 50.00        | 23.06       | L1   | OFF    | 20.2       |
| 13.560000       | 29.63            | ---             | 60.00        | 30.37       | L1   | OFF    | 20.2       |

Report NO : 072944  
Test Mode : Mode 1  
Test Voltage : 120Vac/60Hz  
Phase : Neutral

### Full Spectrum



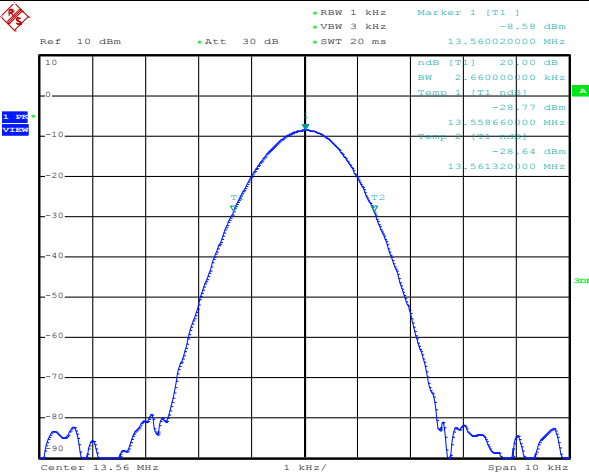
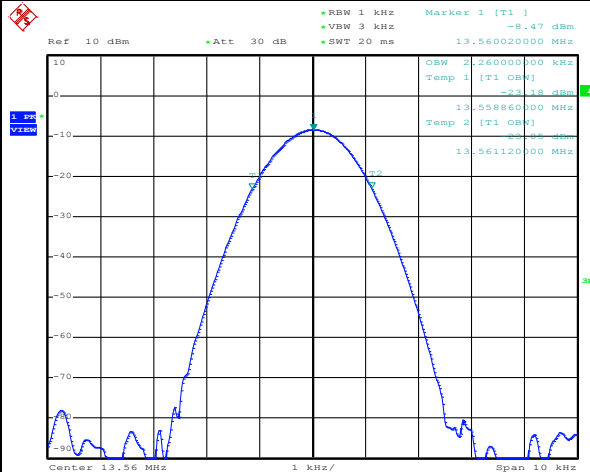
### Final\_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 13.560000       | ---              | 26.01           | 50.00        | 23.99       | N    | OFF    | 19.9       |
| 13.560000       | 28.23            | ---             | 60.00        | 31.77       | N    | OFF    | 19.9       |



## Appendix B. Test Results of Conducted Test Items

### B1. Test Result of 20dB Spectrum Bandwidth

| Test mode                                                                                                                                                                                                                                                        |                | Test Frequency (MHz)                                                                                                                                                                                                                                              |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| NFC Tx                                                                                                                                                                                                                                                           |                | 13.56                                                                                                                                                                                                                                                             |             |
|  <p>Ref 10 dBm Att 30 dB RBW 1 kHz VBW 3 kHz SWT 20 ms Marker 1 [T1] -8.58 dBm 13.560020000 MHz</p> <p>Center 13.56 MHz 1 kHz/ Span 10 kHz</p> <p>Date: 5.SEP.2020 10:38:23</p> |                |  <p>Ref 10 dBm Att 30 dB RBW 1 kHz VBW 3 kHz SWT 20 ms Marker 1 [T1] -8.47 dBm 13.560020000 MHz</p> <p>Center 13.56 MHz 1 kHz/ Span 10 kHz</p> <p>Date: 5.SEP.2020 10:37:07</p> |             |
| 20dB Bandwidth (kHz)                                                                                                                                                                                                                                             | 2.66           | 99% OccupiedBW(kHz)                                                                                                                                                                                                                                               | 2.26        |
| Frequency range (MHz)                                                                                                                                                                                                                                            | $f_L > 13.553$ | 13.55866                                                                                                                                                                                                                                                          | Test Result |
|                                                                                                                                                                                                                                                                  | $f_H < 13.567$ | 13.56132                                                                                                                                                                                                                                                          | Complies    |

**Remark:** Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



## B2. Test Result of Frequency Stability

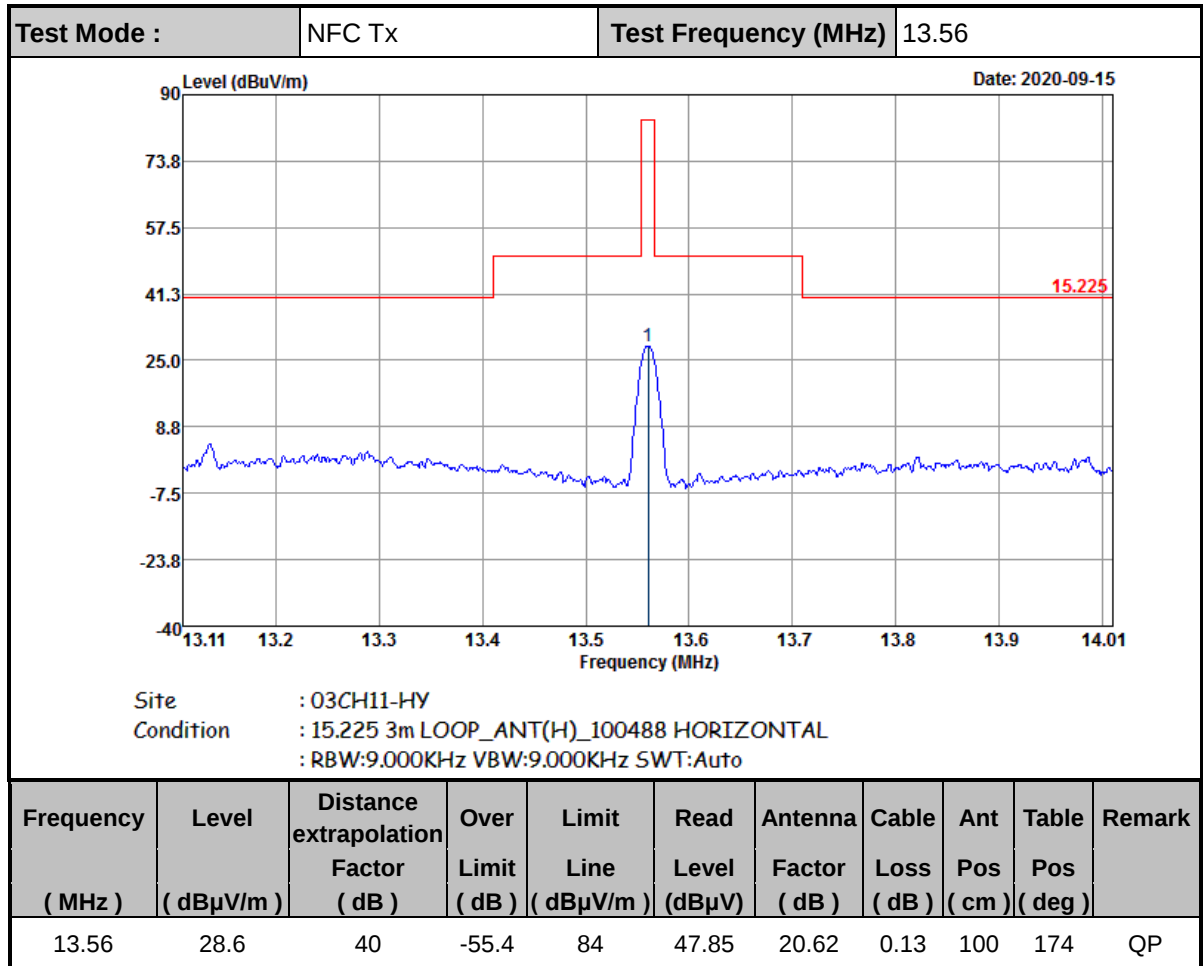
| Voltage vs. Frequency Stability |                             | Temperature vs. Frequency Stability |      |                             |
|---------------------------------|-----------------------------|-------------------------------------|------|-----------------------------|
| Voltage (Vac)                   | Measurement Frequency (MHz) | Temperature (°C)                    | Time | Measurement Frequency (MHz) |
| 120                             | 13.559990                   | -20                                 | 0    | 13.560070                   |
| 102                             | 13.559990                   |                                     | 2    | 13.560080                   |
| 138                             | 13.559990                   |                                     | 5    | 13.560070                   |
|                                 |                             |                                     | 10   | 13.560070                   |
|                                 |                             | -10                                 | 0    | 13.560070                   |
|                                 |                             |                                     | 2    | 13.560070                   |
|                                 |                             |                                     | 5    | 13.560070                   |
|                                 |                             |                                     | 10   | 13.560070                   |
|                                 |                             | 0                                   | 0    | 13.560070                   |
|                                 |                             |                                     | 2    | 13.560080                   |
|                                 |                             |                                     | 5    | 13.560080                   |
|                                 |                             |                                     | 10   | 13.560080                   |
|                                 |                             | 10                                  | 0    | 13.560070                   |
|                                 |                             |                                     | 2    | 13.560070                   |
|                                 |                             |                                     | 5    | 13.560070                   |
|                                 |                             |                                     | 10   | 13.560060                   |
|                                 |                             | 20                                  | 0    | 13.559990                   |
|                                 |                             |                                     | 2    | 13.559980                   |
|                                 |                             |                                     | 5    | 13.559990                   |
|                                 |                             |                                     | 10   | 13.559990                   |
|                                 |                             | 30                                  | 0    | 13.560030                   |
|                                 |                             |                                     | 2    | 13.560030                   |
|                                 |                             |                                     | 5    | 13.560010                   |
|                                 |                             |                                     | 10   | 13.560010                   |
|                                 |                             | 40                                  | 0    | 13.560000                   |
|                                 |                             |                                     | 2    | 13.559990                   |
|                                 |                             |                                     | 5    | 13.559990                   |
|                                 |                             |                                     | 10   | 13.559970                   |

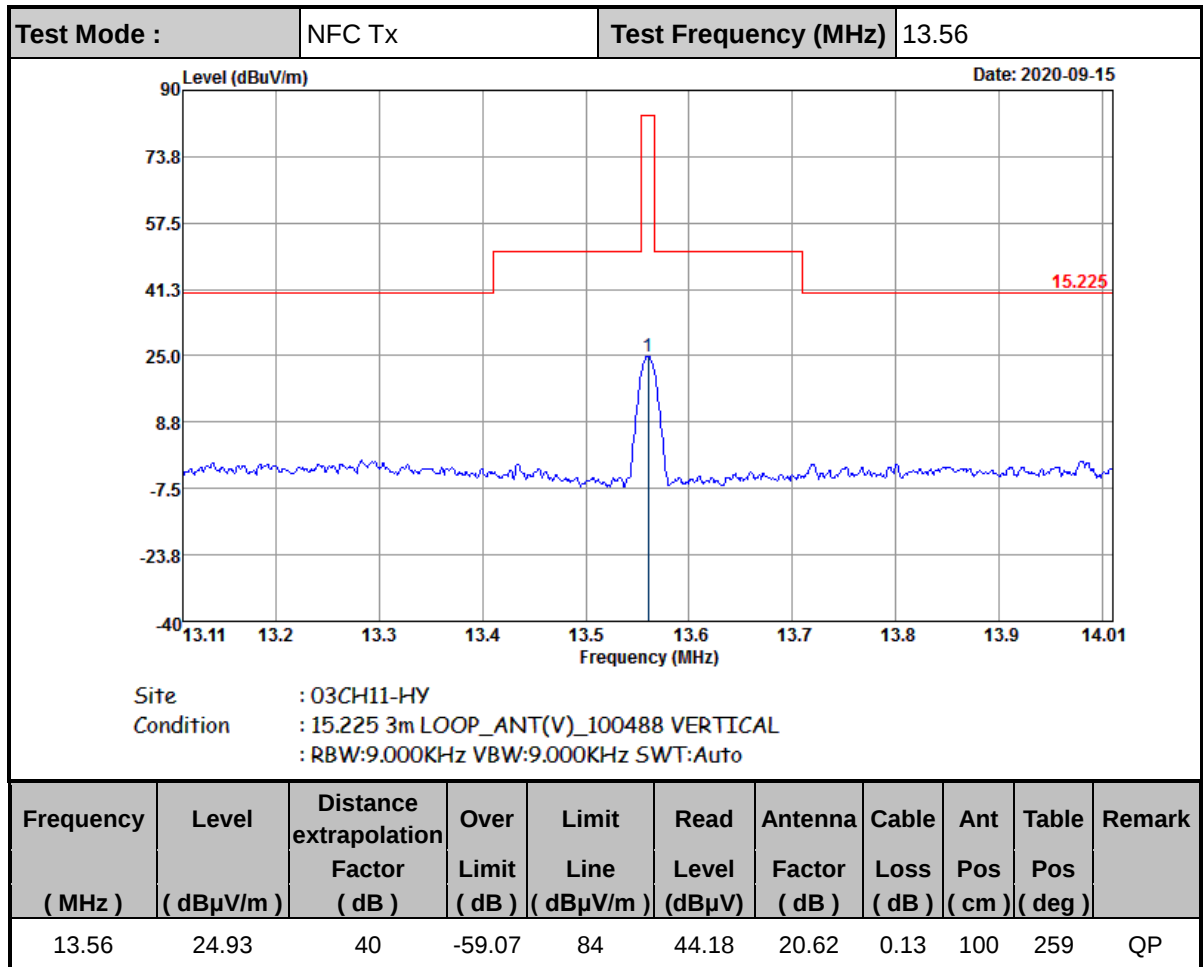


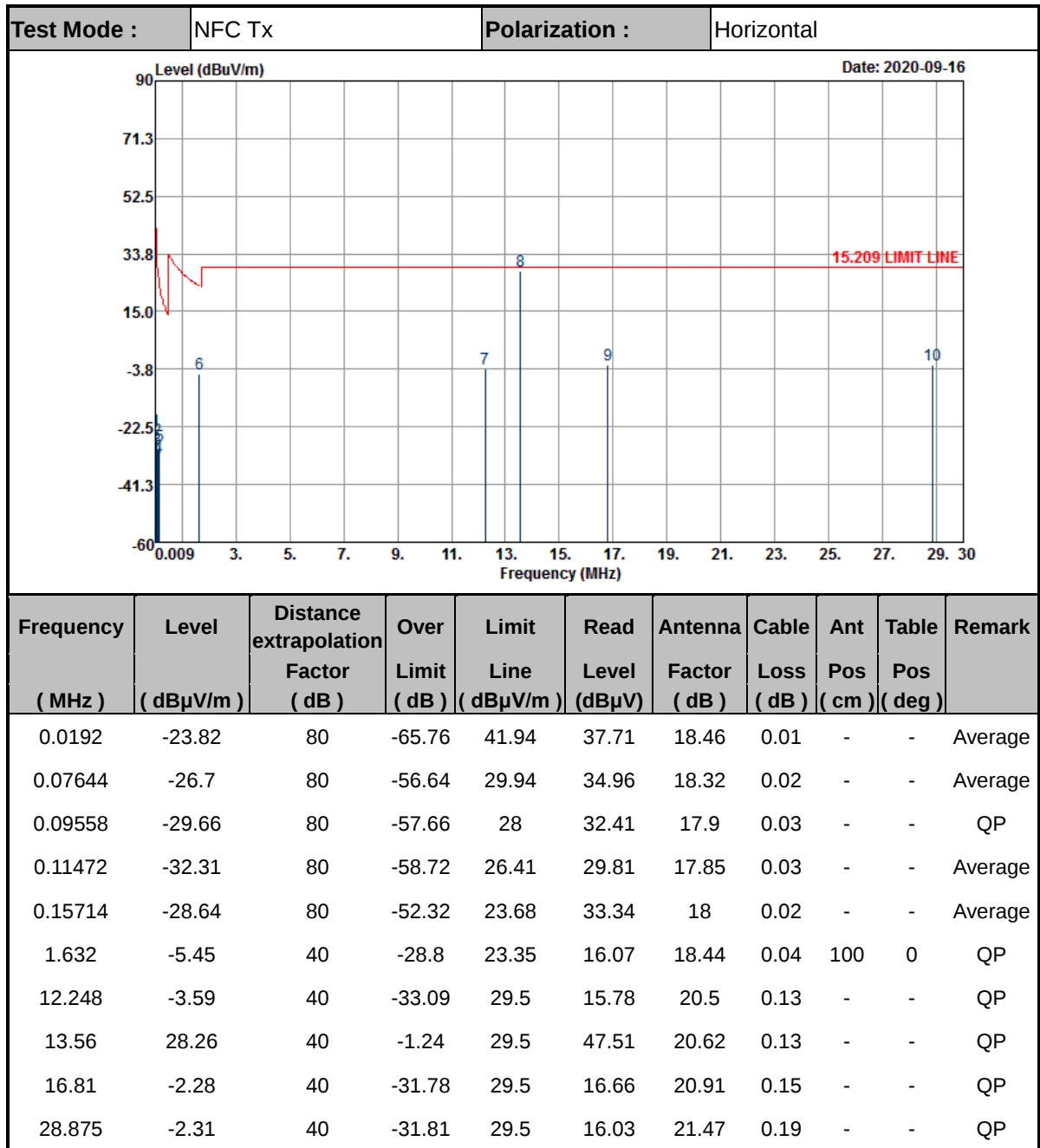
| Voltage vs. Frequency Stability |                                | Temperature vs. Frequency Stability |      |                                |
|---------------------------------|--------------------------------|-------------------------------------|------|--------------------------------|
| Voltage (Vac)                   | Measurement<br>Frequency (MHz) | Temperature (°C)                    | Time | Measurement<br>Frequency (MHz) |
|                                 |                                | 50                                  | 0    | 13.559970                      |
|                                 |                                |                                     | 2    | 13.559970                      |
|                                 |                                |                                     | 5    | 13.559970                      |
|                                 |                                |                                     | 10   | 13.559970                      |
| Max.Deviation (MHz)             | -0.000010                      | Max.Deviation (MHz)                 |      | 0.000080                       |
| Max.Deviation (ppm)             | -0.7375                        | Max.Deviation (ppm)                 |      | 5.8997                         |
| Limit                           | FS < ±100 ppm                  | Limit                               |      | FS < ±100 ppm                  |
| Test Result                     | PASS                           | Test Result                         |      | PASS                           |

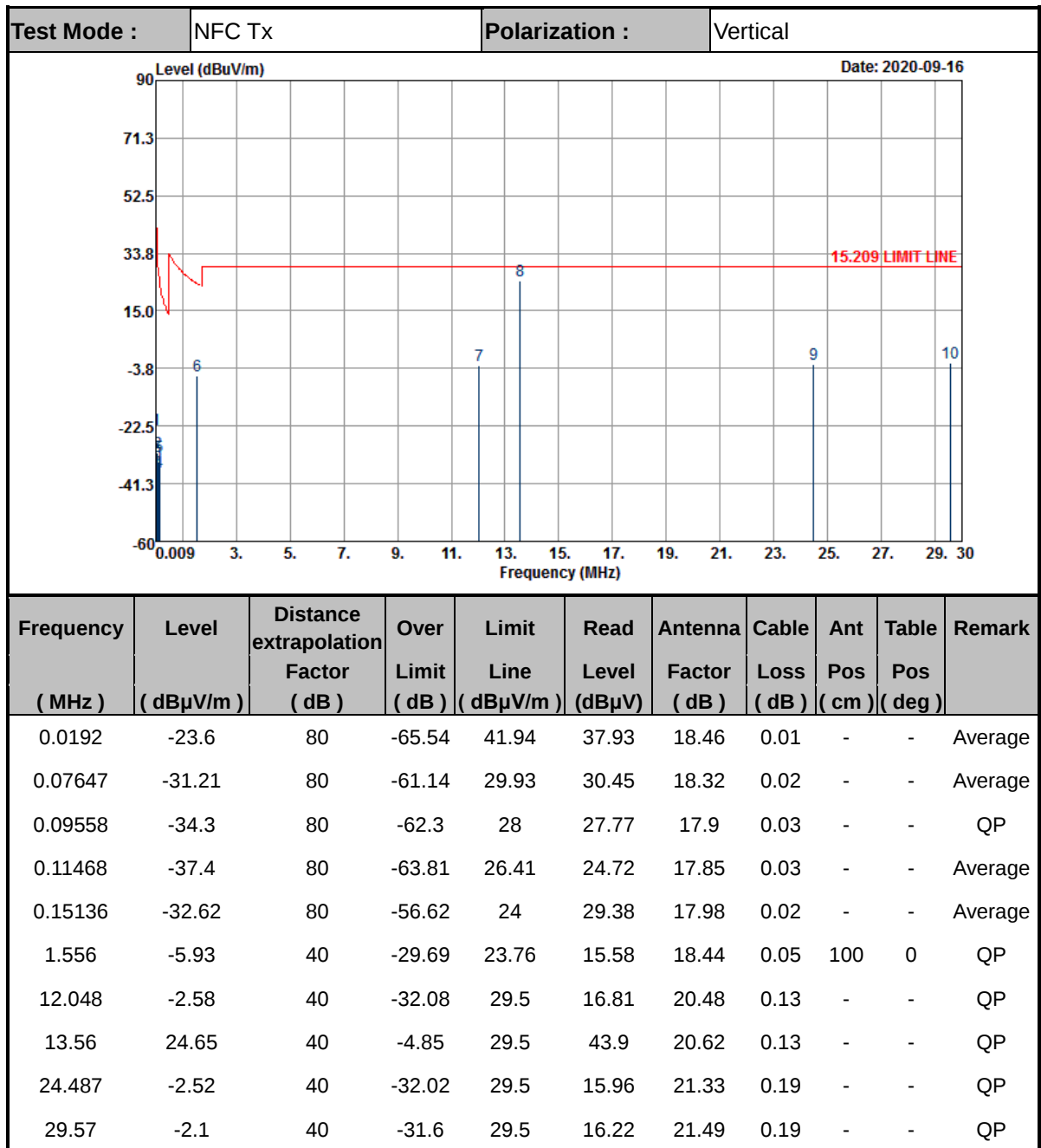
## Appendix C. Test Results of Radiated Test Items

### C1. Test Result of Field Strength of Fundamental Emissions

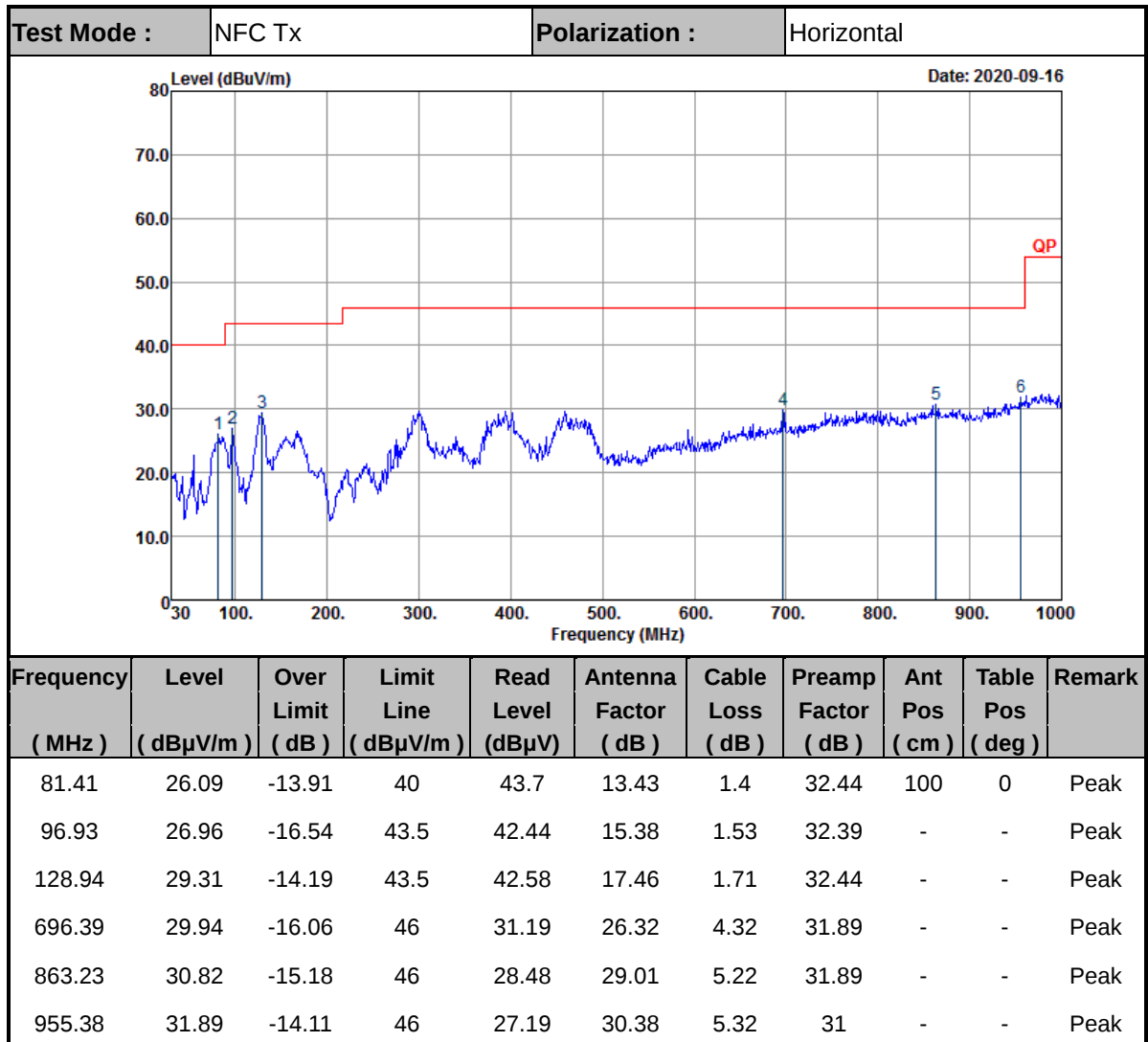


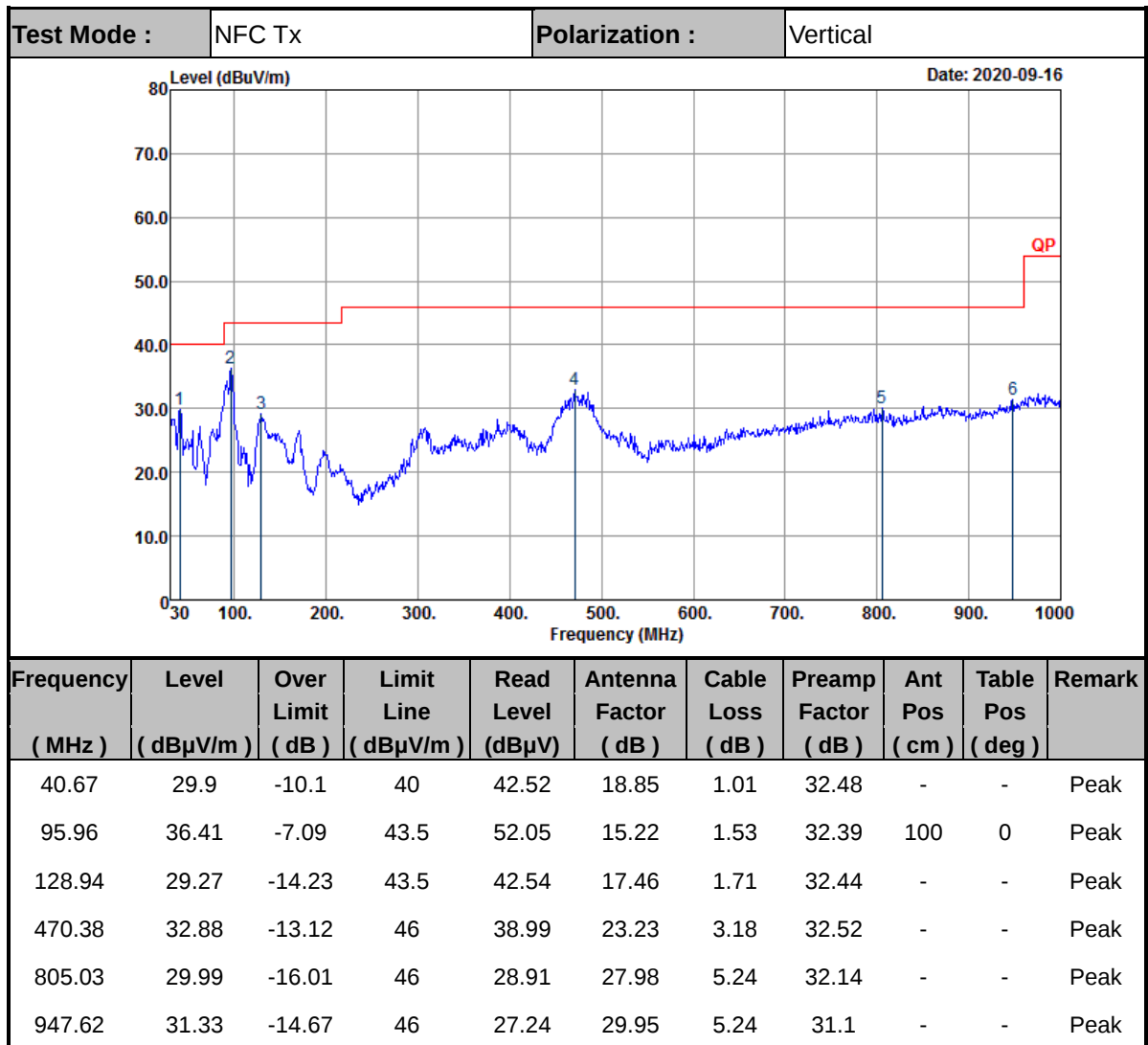


**C2.Results of Radiated Spurious Emissions (9 kHz~30MHz)**



**Note:**

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB)
3. Limit line = specific limits (dBμV) + distance extrapolation factor
4. 13.56 MHz is fundamental signal which can be ignored

**C3.Results of Radiated Spurious Emissions (30MHz~1GHz)**



**Note:**

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.