

**FCC 47 CFR PART 15 SUBPART C**

**CERTIFICATION TEST REPORT**

*For*

**5G Smart Phone**

**MODEL NUMBER: S6702X**

**REPORT NUMBER: 4791041023-1-RF-5**

**ISSUE DATE: January 11, 2024**

**FCC ID:2ADINS6702X**

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Revision History

| Rev. | Issue Date      | Revisions     | Revised By |
|------|-----------------|---------------|------------|
| V0   | January 1, 2024 | Initial Issue |            |

| Summary of Test Results                                                                                                                                                                                                                                                                                               |                                                                   |                                                   |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------|--------------|
| Clause                                                                                                                                                                                                                                                                                                                | Test Items                                                        | FCC Rules                                         | Test Results |
| 1                                                                                                                                                                                                                                                                                                                     | Transmitter 99% Emission Bandwidth / 20dB Bandwidth               | Part 15.215 (c)                                   | PASS         |
| 2                                                                                                                                                                                                                                                                                                                     | Transmitter Frequency Stability (Temperature & Voltage Variation) | CFR 47 FCC §15.225(e)                             | PASS         |
| 3                                                                                                                                                                                                                                                                                                                     | Fundamental Field Strength                                        | CFR 47 FCC §5.225(a)(b)(c)(d)                     | PASS         |
| 4                                                                                                                                                                                                                                                                                                                     | Radiated Emissions                                                | CFR 47 FCC§15.209(a)<br>CFR 47 FCC§15.225(d)      | PASS         |
| 5                                                                                                                                                                                                                                                                                                                     | Band Edge Radiated Emissions                                      | CFR 47 FCC §15.209(a)<br>CFR 47 FCC §15.225(c)(d) | PASS         |
| 6                                                                                                                                                                                                                                                                                                                     | Conducted Emission Test for AC Power Port                         | CFR 47 FCC §15.207                                | PASS         |
| 7                                                                                                                                                                                                                                                                                                                     | Antenna Requirement                                               | CFR 47 FCC §15.203                                | Pass         |
| <p>Note 1: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.</p> <p>Note 2: The measurement result for the sample received is &lt;Pass&gt; according to &lt; CFR 47 FCC PART 15 SUBPART C &gt; when &lt;Accuracy Method&gt; decision rule is applied.</p> |                                                                   |                                                   |              |

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## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: Sun Cupid Technology (HK) Ltd.  
Address: 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan,  
Kowloon Hong Kong

### Manufacturer Information

Company Name: Sun Cupid Technology (HK) Ltd.  
Address: 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan,  
Kowloon Hong Kong

### EUT Information

EUT Name: 5G Smart Phone  
Model: S6702X  
Series Model: B30 Pro, NUU B30 Pro  
Brand: NUU  
Sample Received Date: October 26, 2023  
Sample Status: Normal  
Sample ID: 6616020  
Date of Tested: October 26, 2023 to January 11, 2024

| APPLICABLE STANDARDS         |              |
|------------------------------|--------------|
| STANDARD                     | TEST RESULTS |
| CFR 47 FCC PART 15 SUBPART C | PASS         |

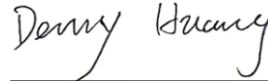
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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013.

## 3. FACILITIES AND ACCREDITATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accreditation Certificate | <p><b>A2LA (Certificate No.: 4102.01)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED (Company No.: 21320)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p><b>VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.<br/>Facility Name:<br/>Chamber D, the VCCI registration No. is G-20192 and R-20202<br/>Shielding Room B, the VCCI registration No. is C-20153 and T-20155</p> |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Note:

1. All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
2. The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Item                                                                                                                                     | Uncertainty             |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Conduction emission                                                                                                                           | 3.62 dB                 |
| Radiation Emission test (include Fundamental emission)<br>(9KHz-30MHz)                                                                        | 2.2 dB                  |
| Radiation Emission test (include Fundamental emission)<br>(30MHz-1GHz)                                                                        | 4.00 dB                 |
| Radiation Emission test<br>(1GHz to 26GHz) (include Fundamental emission)                                                                     | 5.78 dB (1 GHz-18 GHz)  |
|                                                                                                                                               | 5.23 dB (18 GHz-26 GHz) |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                         |

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

|                      |                                                                                                                                                                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Name:            | 5G Smart Phone                                                                                                                                                                                                                                                                                                                      |
| Model:               | S6702X                                                                                                                                                                                                                                                                                                                              |
| Series Model:        | B30 Pro, NUU B30 Pro                                                                                                                                                                                                                                                                                                                |
| Model Difference:    | B30 Pro, NUU B30 Pro have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with S6702X. The difference lies only the model number. all these changes do not degrade the unwanted emissions of the certified product. |
| Operation Frequency: | 13.56MHz                                                                                                                                                                                                                                                                                                                            |
| Modulation:          | ASK                                                                                                                                                                                                                                                                                                                                 |
| Rated Input:         | DC 5 V, 2 A                                                                                                                                                                                                                                                                                                                         |
| Battery:             | 3.87V/5000mAh                                                                                                                                                                                                                                                                                                                       |

### 5.2. MAXIMUM FIELD STRENGTH

| Frequency (MHz) | Max Peak field strength (dB $\mu$ V/m) |
|-----------------|----------------------------------------|
| 13.56           | 1.64                                   |

### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

| Frequency (MHz) | Antenna Type | Antenna Gain (dBi) |
|-----------------|--------------|--------------------|
| 13.56           | Loop antenna | 0                  |

## 5.4. TEST ENVIRONMENT

| Environment Parameter | Selected Values During Tests |           |
|-----------------------|------------------------------|-----------|
| Relative Humidity     | 55 ~ 65%                     |           |
| Atmospheric Pressure: | 1025Pa                       |           |
| Temperature           | TN                           | 23 ~ 28°C |
| Voltage:              | VL                           | DC 3.29 V |
|                       | VN                           | DC 3.87 V |
|                       | VH                           | DC 4.45 V |

Note: VL= Lower Extreme Test Voltage

VN= Nominal Voltage

VH= Upper Extreme Test Voltage

TN= Normal Temperature

## 5.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Item | Equipment | Brand Name | Model Name | Remarks |
|------|-----------|------------|------------|---------|
| 1    | Laptop    | Lenovo     | E14        | /       |

### I/O CABLES

| Cable No | Port | Connector Type | Cable Type | Cable Length(m) | Remarks |
|----------|------|----------------|------------|-----------------|---------|
| 1        | USB  | Type C         | /          | 1.0             | /       |

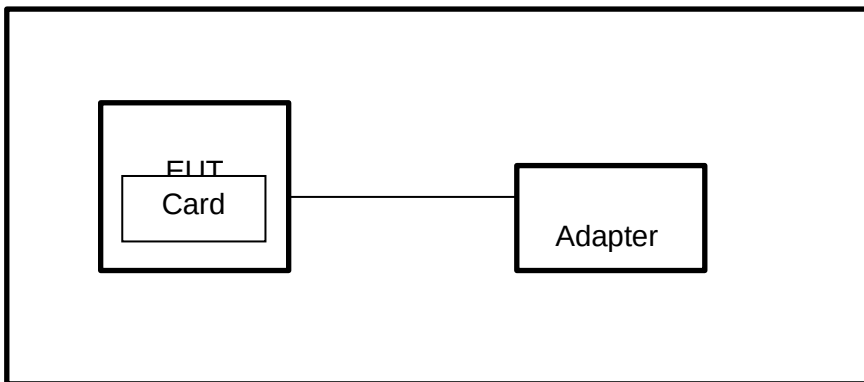
### ACCESSORIES

| Item | Accessory | Brand Name | Model Name   | Description                                                           |
|------|-----------|------------|--------------|-----------------------------------------------------------------------|
| 1    | Adapter   | /          | HW-059200BHQ | Input Voltage:<br>100-240V ~50/60Hz, 0.5A<br>Output Voltage: 5Vdc, 2A |

### TEST SETUP

The EUT can transmit the NFC signal through Swiping card (NFC)  
NFC support both ISO /IEC 14443A and ISO /IEC 14443B. All lowest and highest data rates as per the standards are supported - 106 kbps, 212 kbps, 424 kbps and 848 kbps, all the modes had been tested, but only the worst data (ISO 14443A 106 kbps) was recorded in the report.

### SETUP DIAGRAM FOR TESTS



Note: Test was performed with tag and without tag, but only the worst-case data (with tag) was recorded in the report.

## 5.6. MEASURING INSTRUMENT AND SOFTWARE USED

| Conducted Emissions                   |              |           |              |              |              |
|---------------------------------------|--------------|-----------|--------------|--------------|--------------|
| Equipment                             | Manufacturer | Model No. | Serial No.   | Last Cal.    | Due Date     |
| EMI Test Receiver                     | R&S          | ESR3      | 101961       | Oct.13, 2023 | Oct.12, 2024 |
| Two-Line V-Network                    | R&S          | ENV216    | 101983       | Oct.13, 2023 | Oct.12, 2024 |
| Artificial Mains Networks             | Schwarzbeck  | NSLK 8126 | 8126465      | Oct.13, 2023 | Oct.12, 2024 |
| Software                              |              |           |              |              |              |
| Description                           |              |           | Manufacturer | Name         | Version      |
| Test Software for Conducted Emissions |              |           | Farad        | EZ-EMC       | Ver. UL-3A1  |

| R&S TS 8997 Test System             |                 |            |                  |              |              |
|-------------------------------------|-----------------|------------|------------------|--------------|--------------|
| Equipment                           | Manufacturer    | Model No.  | Serial No.       | Last Cal.    | Due. Date    |
| Power sensor, Power Meter           | R&S             | OSP120     | 100921           | Mar.31,2023  | Mar.30,2024  |
| Vector Signal Generator             | R&S             | SMBV100A   | 261637           | Oct.12, 2023 | Oct.11, 2024 |
| Signal Generator                    | R&S             | SMB100A    | 178553           | Oct.12, 2023 | Oct.11, 2024 |
| Signal Analyzer                     | R&S             | FSV40      | 101118           | Oct.12, 2023 | Oct.11, 2024 |
| Software                            |                 |            |                  |              |              |
| Description                         | Manufacturer    |            | Name             | Version      |              |
| For R&S TS 8997 Test System         | Rohde & Schwarz |            | EMC 32           | 10.60.10     |              |
| Tonsend RF Test System              |                 |            |                  |              |              |
| Equipment                           | Manufacturer    | Model No.  | Serial No.       | Last Cal.    | Due. Date    |
| Wideband Radio Communication Tester | R&S             | CMW500     | 155523           | Oct.12, 2023 | Oct.11, 2024 |
| Wireless Connectivity Tester        | R&S             | CMW270     | 1201.0002N75-102 | Sep.25, 2023 | Sep.24, 2024 |
| PXA Signal Analyzer                 | Keysight        | N9030A     | MY55410512       | Oct.12, 2023 | Oct.11, 2024 |
| MXG Vector Signal Generator         | Keysight        | N5182B     | MY56200284       | Oct.12, 2023 | Oct.11, 2024 |
| MXG Vector Signal Generator         | Keysight        | N5172B     | MY56200301       | Oct.12, 2023 | Oct.11, 2024 |
| DC power supply                     | Keysight        | E3642A     | MY55159130       | Oct.12, 2023 | Oct.11, 2024 |
| Temperature & Humidity Chamber      | SANMOOD         | SG-80-CC-2 | 2088             | Oct.12, 2023 | Oct.11, 2024 |
| Attenuator                          | Aglient         | 8495B      | 2814a12853       | Oct.12, 2023 | Oct.11, 2024 |

|                         |              |                         |             |                |                |
|-------------------------|--------------|-------------------------|-------------|----------------|----------------|
| RF Control Unit         | Tonscend     | JS0806-2                | 23B80620666 | April 18, 2023 | April 17, 2024 |
| Software                |              |                         |             |                |                |
| Description             | Manufacturer | Name                    |             | Version        |                |
| Tonsend SRD Test System | Tonsend      | JS1120-3 RF Test System |             | V3.2.22        |                |

| Radiated Emissions                   |              |                |               |               |               |
|--------------------------------------|--------------|----------------|---------------|---------------|---------------|
| Equipment                            | Manufacturer | Model No.      | Serial No.    | Last Cal.     | Due Date      |
| MXE EMI Receiver                     | KESIGHT      | N9038A         | MY56400036    | Oct.12, 2023  | Oct.11, 2024  |
| Hybrid Log Periodic Antenna          | TDK          | HLP-3003C      | 130959        | Aug.02, 2021  | Aug.01, 2024  |
| Preamplifier                         | HP           | 8447D          | 2944A09099    | Oct.12, 2023  | Oct.11, 2024  |
| EMI Measurement Receiver             | R&S          | ESR26          | 101377        | Oct.12, 2023  | Oct.11, 2024  |
| Horn Antenna                         | TDK          | HRN-0118       | 130940        | July 20, 2021 | July 19, 2024 |
| Preamplifier                         | TDK          | PA-02-0118     | TRS-305-00067 | Oct.12, 2023  | Oct.11, 2024  |
| Horn Antenna                         | Schwarzbeck  | BBHA9170       | 697           | July 20, 2021 | July 19, 2024 |
| Preamplifier                         | TDK          | PA-02-2        | TRS-307-00003 | Oct.12, 2023  | Oct.11, 2024  |
| Preamplifier                         | TDK          | PA-02-3        | TRS-308-00002 | Oct.12, 2023  | Oct.11, 2024  |
| Loop antenna                         | Schwarzbeck  | 1519B          | 00008         | Dec.14, 2021  | Dec.13, 2024  |
| Preamplifier                         | TDK          | PA-02-001-3000 | TRS-302-00050 | Oct.12, 2023  | Oct.11, 2024  |
| Software                             |              |                |               |               |               |
| Description                          |              | Manufacturer   | Name          | Version       |               |
| Test Software for Radiated Emissions |              | Farad          | EZ-EMC        | Ver. UL-3A1   |               |

## 6. ANTENNA PORT TEST RESULTS

### 6.1. 99% & 20dB BANDWIDTH

#### LIMITS

| Section                            | Test Item               | Limit                        |
|------------------------------------|-------------------------|------------------------------|
| ANSI C63.10 Section 6.9.2          | 20dB% Bandwidth         | For reporting purposes only. |
| ISED RSS-Gen Clause 6.7<br>Issue 5 | 99 % Occupied Bandwidth | For reporting purposes only. |

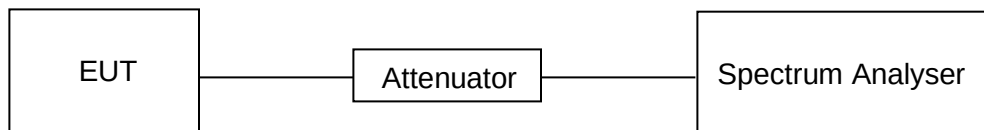
#### TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1 kHz. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW or CW-like 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.

The type of band for the signal is narrowband.

#### TEST SETUP

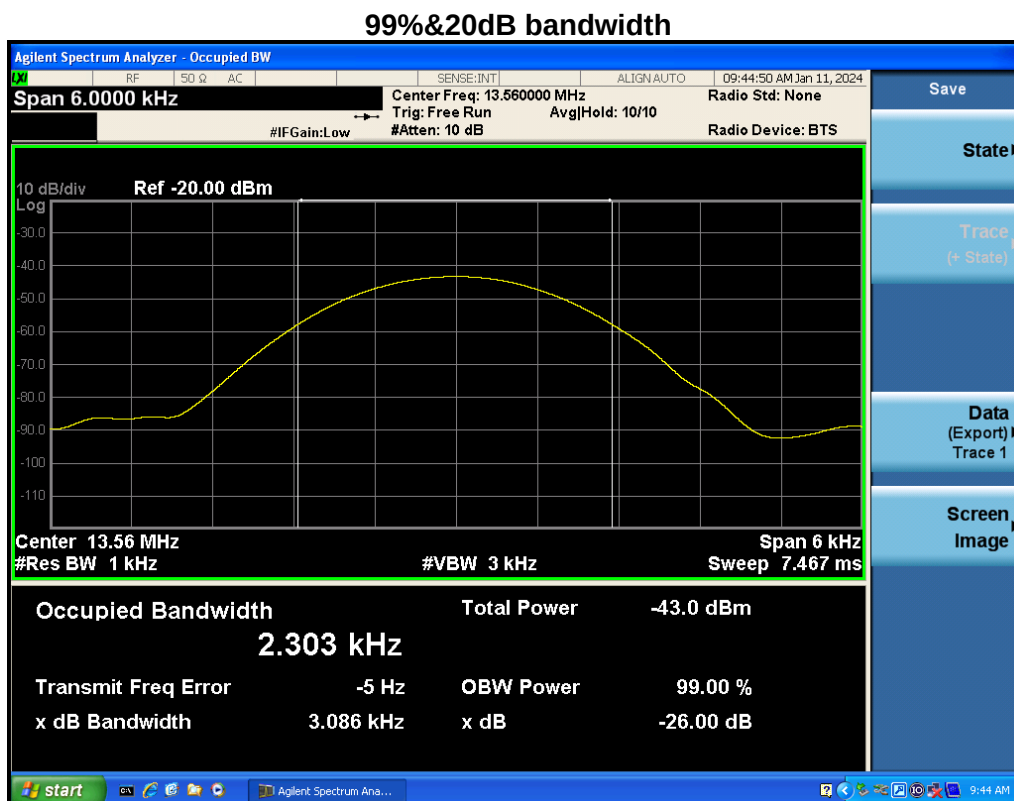


#### TEST ENVIRONMENT

|                     |        |                   |           |
|---------------------|--------|-------------------|-----------|
| Temperature         | 22.5°C | Relative Humidity | 48%       |
| Atmosphere Pressure | 101kPa | Test Voltage      | DC 3.87 V |

## RESULTS

| Frequency (MHz) | 99% Occupied Bandwidth (kHz) | 20dB bandwidth (kHz) |
|-----------------|------------------------------|----------------------|
| 13.56           | 2.303                        | 3.086                |



## 6.2. TRANSMITTER FREQUENCY STABILITY

### LIMITS

CFR 47 FCC §15.225(e)

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.

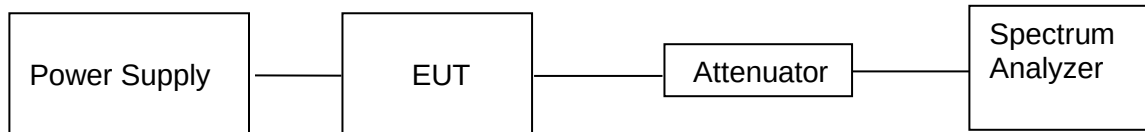
### TEST SETUP AND PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

|                  |                                                              |
|------------------|--------------------------------------------------------------|
| Center Frequency | The center frequency of the channel under test               |
| Detector         | PEAK                                                         |
| RBW              | 10KHz                                                        |
| VBW              | $\geq 3 \times \text{RBW}$                                   |
| Span             | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace            | Max hold                                                     |
| Sweep time       | Auto                                                         |

Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

### TEST SETUP



**TEST RESULTS**

Maximum frequency error of the EUT with variations in ambient temperature

| Temperature (°C)        | Time after Start-up |           |           |            |
|-------------------------|---------------------|-----------|-----------|------------|
|                         | 0 minutes           | 2 minutes | 5 minutes | 10 minutes |
| 0                       | 13.5602             | 13.5603   | 13.5603   | 13.5602    |
| 10                      | 13.5604             | 13.5605   | 13.5605   | 13.5603    |
| 20                      | 13.5605             | 13.5606   | 13.5607   | 13.5601    |
| 30                      | 13.5611             | 13.5604   | 13.5604   | 13.5602    |
| 35                      | 13.5603             | 13.5612   | 13.5613   | 13.5605    |
| Maximum frequency error | 0.0081%             | 0.0088%   | 0.0096%   | 0.0037%    |
| Limit                   | 0.01%               |           |           |            |
| Result                  | Pass                | Pass      | Pass      | Pass       |

Maximum frequency error of the EUT with variations in nominal operating voltage at an ambient 20 degrees C temperature.

| Supply Voltage (V)      | Time after Start-up |           |           |            |
|-------------------------|---------------------|-----------|-----------|------------|
|                         | 0 minutes           | 2 minutes | 5 minutes | 10 minutes |
| AC 108 V                | 13.5603             | 13.5605   | 13.5607   | 13.5612    |
| AC 120 V                | 13.5602             | 13.5602   | 13.5608   | 13.5610    |
| AC 132 V                | 13.5604             | 13.5604   | 13.5610   | 13.5611    |
| Maximum frequency error | 0.0029%             | 0.0037%   | 0.0074%   | 0.0088%    |
| Limit                   | 0.01%               |           |           |            |
| Result                  | Pass                | Pass      | Pass      | Pass       |

## 7. RADIATED EMISSION TEST RESULTS

### LIMITS

Fundamental field strength

|                   |                                       |
|-------------------|---------------------------------------|
| FCC Reference:    | Part 15.225(a)(b)(c)(d) & 15.209(a)   |
| Test Method Used: | ANSI C63.10 Sections 6.3, 6.4 and 6.5 |

| Frequency (MHz)             | Field Strength (uV/m) | Field Strength (dBuV/m) | Measured Distance (Meters) |
|-----------------------------|-----------------------|-------------------------|----------------------------|
| 13.553-13.567               | 15848                 | 84                      | 30                         |
| 13.410-13.553/13.567-13.710 | 334                   | 50.47                   | 30                         |
| 13.110-13.410/13.710-14.010 | 106                   | 40.51                   | 30                         |

Note(s):

1. 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.

2. The limit is specified at a test distance of 30 meters. However, as specified by FCC Section 15.31 (f)(2), measurements may be performed at a closer distance and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40dB/decade).

### Radiation Disturbance Test Limit for FCC (Class B) (9KHz-1GHz)

| Frequency (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                             |
| 960~1000        | 500                               | 3                             |

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, 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. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30MHz.

#### Restricted bands of operation

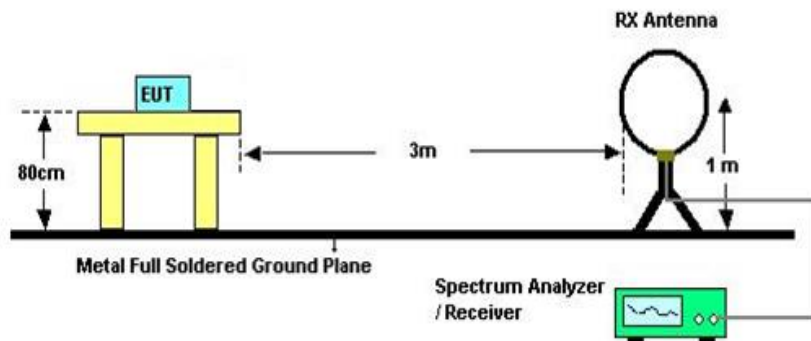
| MHz                      | MHz                 | MHz           | GHz              |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15         |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46        |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75        |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5        |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2          |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5          |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7        |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4       |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5       |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2       |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4        |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12      |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0        |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8        |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5       |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | ( <sup>2</sup> ) |
| 13.36-13.41              |                     |               |                  |

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6c

## TEST SETUP AND PROCEDURE

Below 30MHz

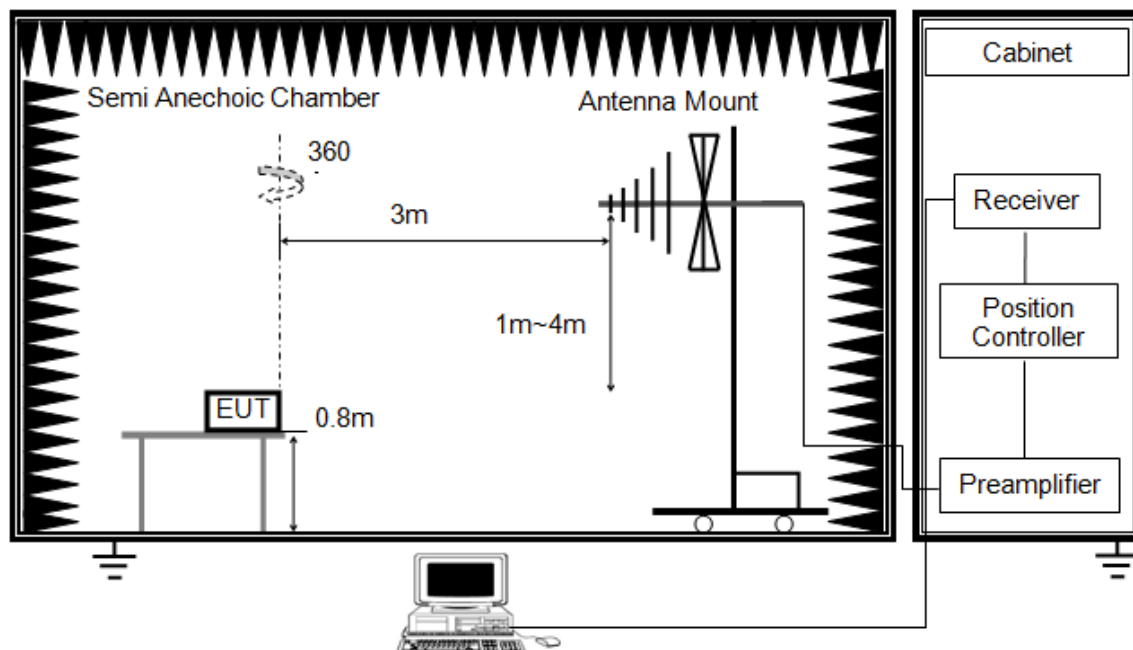


The setting of the spectrum analyser

|          |                                                            |
|----------|------------------------------------------------------------|
| RBW      | 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz) |
| VBW      | 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz) |
| Sweep    | Auto                                                       |
| Detector | Peak/QP/ Average                                           |
| Trace    | Max hold                                                   |

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.
5. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
6. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
7. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
8. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open field site. Therefore, the sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1G

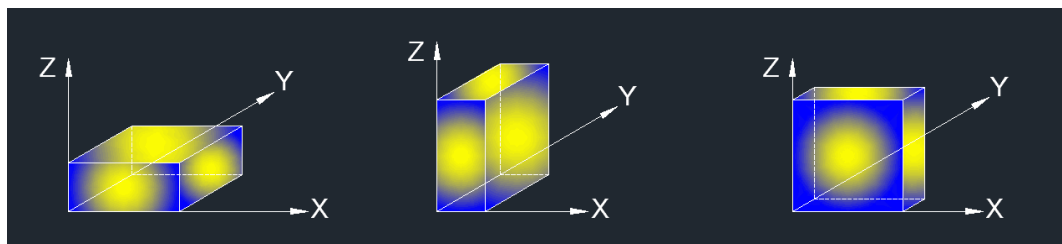


The setting of the spectrum analyser

|          |          |
|----------|----------|
| RBW      | 120K     |
| VBW      | 300K     |
| Sweep    | Auto     |
| Detector | Peak/QP  |
| Trace    | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm above ground.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
7. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

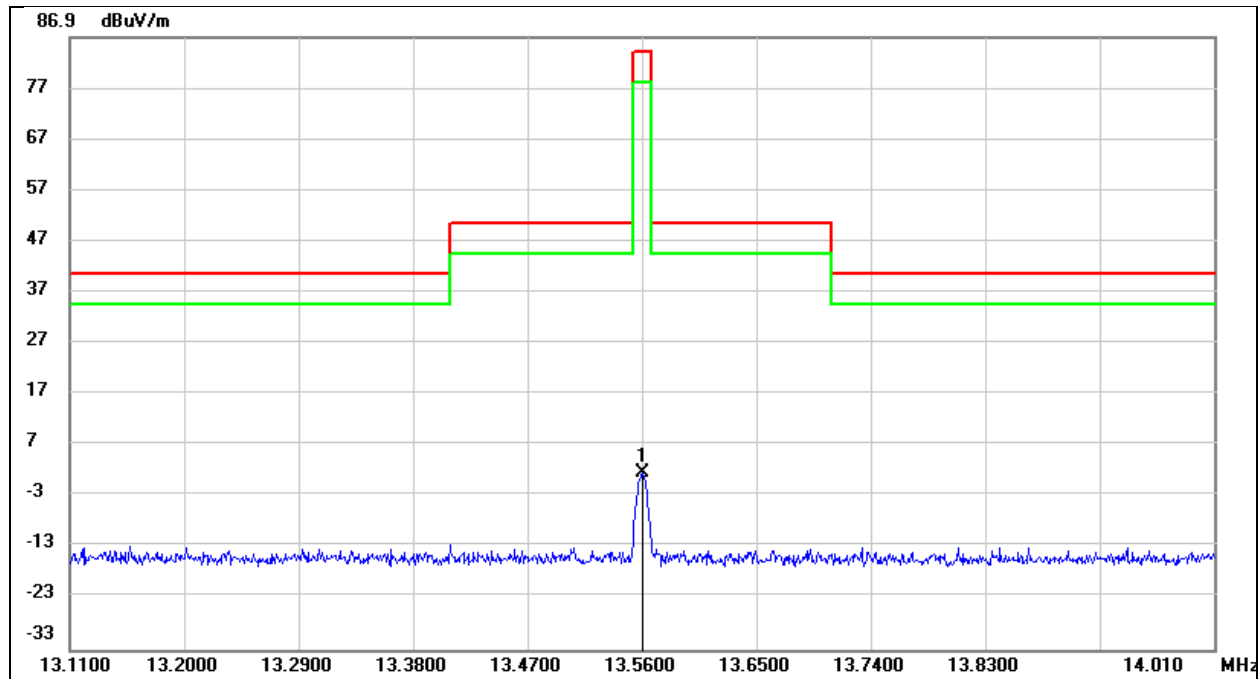
### **TEST ENVIRONMENT**

|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 22.4 °C | Relative Humidity | 49 %      |
| Atmosphere Pressure | 101kPa  | Test Voltage      | DC 3.87 V |

### **RESULTS**

## 7.1. FIELD STRENGTH OF INTENTIONAL EMISSIONS

### FIELD STRENGTH OF INTENTIONAL EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)



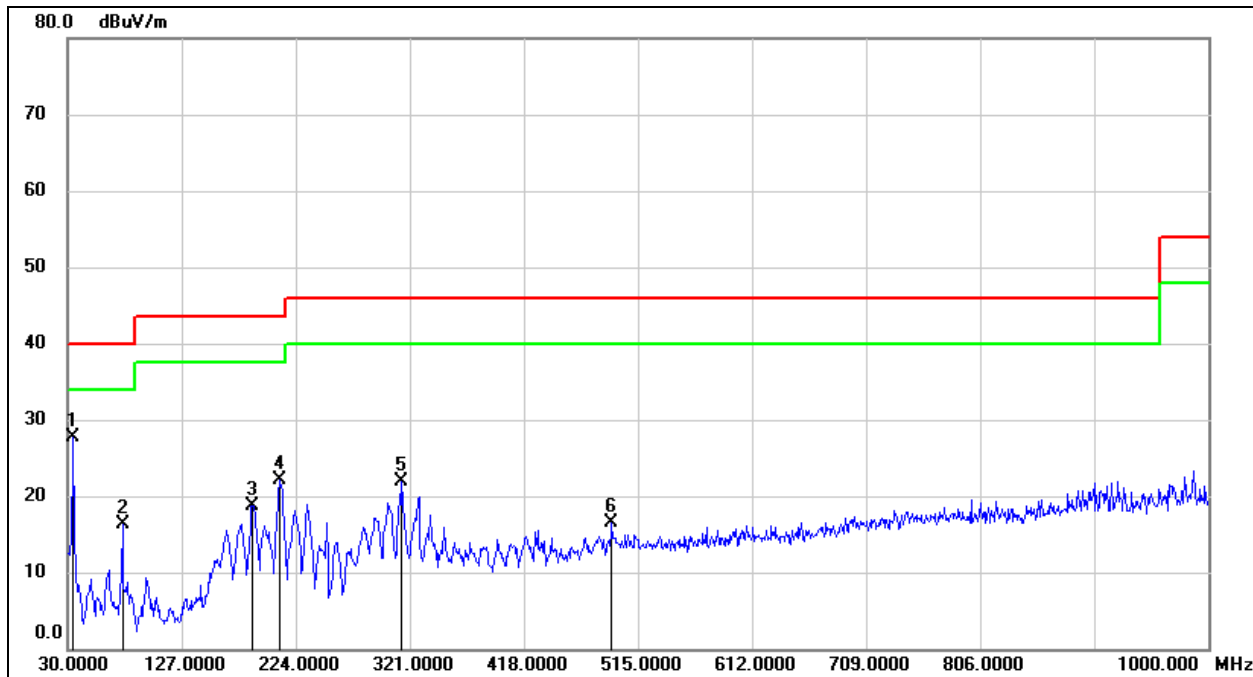
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 13.5600            | 49.04             | -47.43            | 1.61               | 84.00             | -82.39         | peak   |

Note: 1. Result Level = Read Level + Correct Factor.

2. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

## 7.2. SPURIOUS EMISSIONS BELOW 1GHz AND ABOVE 30MHz

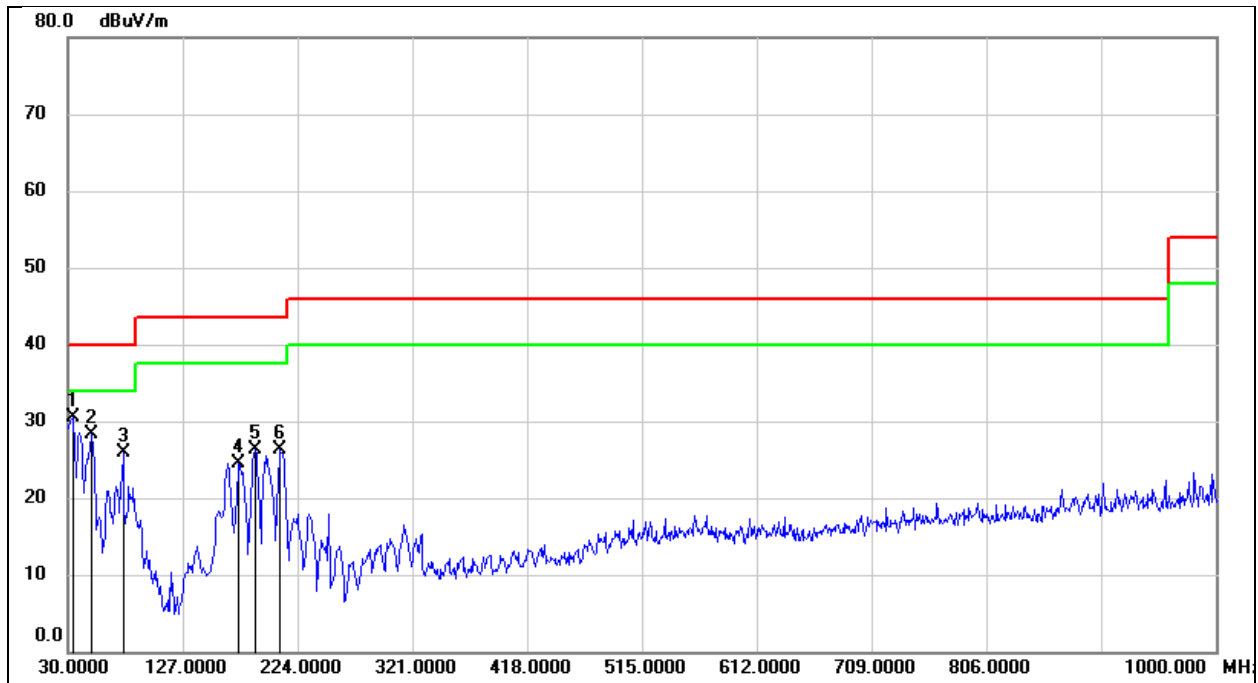
### SPURIOUS EMISSIONS (HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 34.8500            | 46.25             | -18.53            | 27.72              | 40.00             | -12.28         | QP     |
| 2   | 76.5600            | 37.02             | -20.76            | 16.26              | 40.00             | -23.74         | QP     |
| 3   | 187.1400           | 34.74             | -16.01            | 18.73              | 43.50             | -24.77         | QP     |
| 4   | 210.4200           | 38.37             | -16.32            | 22.05              | 43.50             | -21.45         | QP     |
| 5   | 314.2100           | 36.11             | -14.15            | 21.96              | 46.00             | -24.04         | QP     |
| 6   | 492.6900           | 26.97             | -10.52            | 16.45              | 46.00             | -29.55         | QP     |

Note: 1. Result Level = Read Level + Correct Factor.

### HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



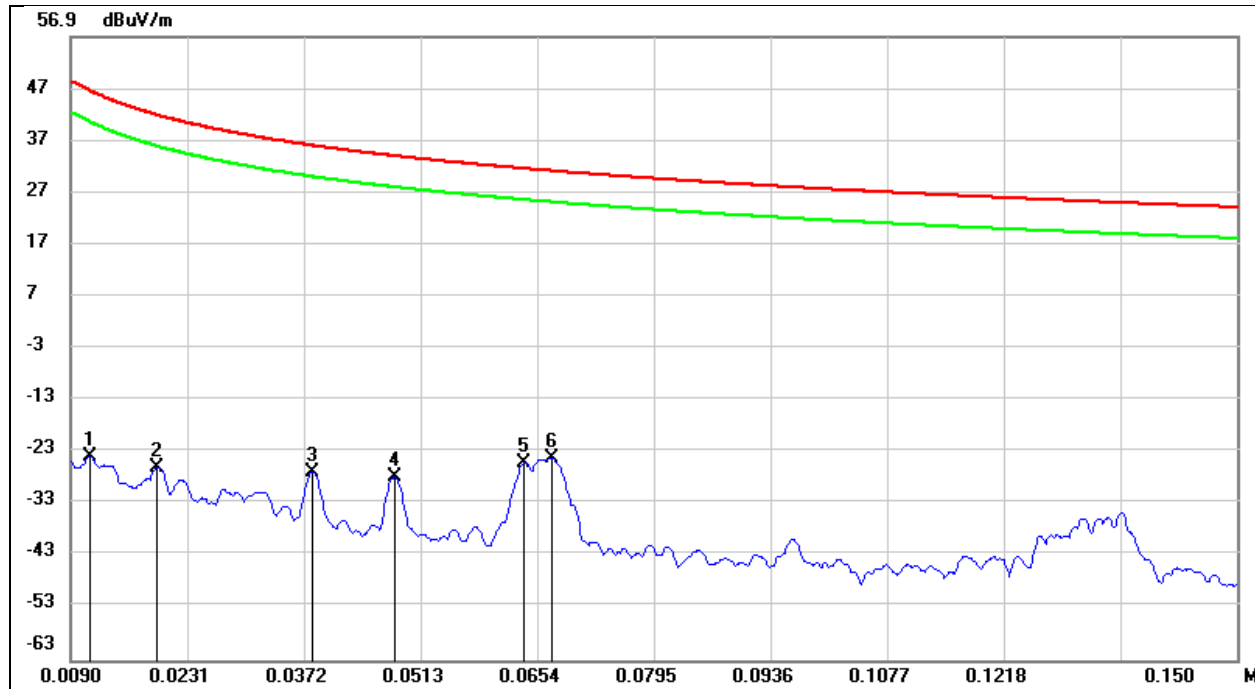
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 33.8800            | 48.92             | -18.37            | 30.55              | 40.00             | -9.45          | QP     |
| 2   | 49.4000            | 48.25             | -20.04            | 28.21              | 40.00             | -11.79         | QP     |
| 3   | 76.5600            | 46.67             | -20.76            | 25.91              | 40.00             | -14.09         | QP     |
| 4   | 174.5300           | 40.58             | -16.11            | 24.47              | 43.50             | -19.03         | QP     |
| 5   | 188.1100           | 42.26             | -16.03            | 26.23              | 43.50             | -17.27         | QP     |
| 6   | 209.4500           | 42.67             | -16.28            | 26.39              | 43.50             | -17.11         | QP     |

Note: 1. Result Level = Read Level + Correct Factor.

### 7.3. SPURIOUS EMISSIONS BELOW 30MHz

#### SPURIOUS EMISSIONS (LOOP ANTENNA FACE ON TO THE EUT)

9 kHz~ 150 kHz



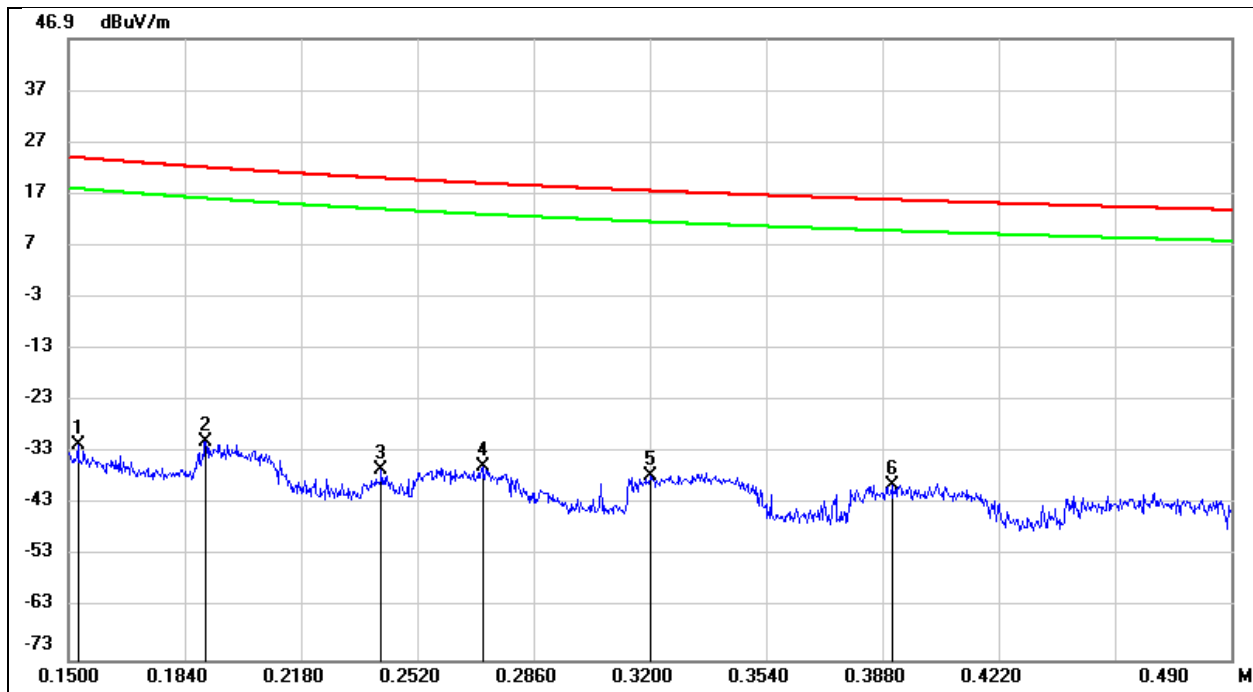
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 0.0113             | 63.95             | -87.87            | -23.92             | 46.54             | -70.46         | QP     |
| 2   | 0.0194             | 61.79             | -87.72            | -25.93             | 41.84             | -67.77         | QP     |
| 3   | 0.0382             | 61.52             | -88.38            | -26.86             | 35.96             | -62.82         | QP     |
| 4   | 0.0481             | 60.63             | -88.56            | -27.93             | 33.96             | -61.89         | QP     |
| 5   | 0.0638             | 63.16             | -88.32            | -25.16             | 31.51             | -56.67         | QP     |
| 6   | 0.0670             | 64.07             | -88.26            | -24.19             | 31.08             | -55.27         | QP     |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

### 150 kHz ~ 490 kHz



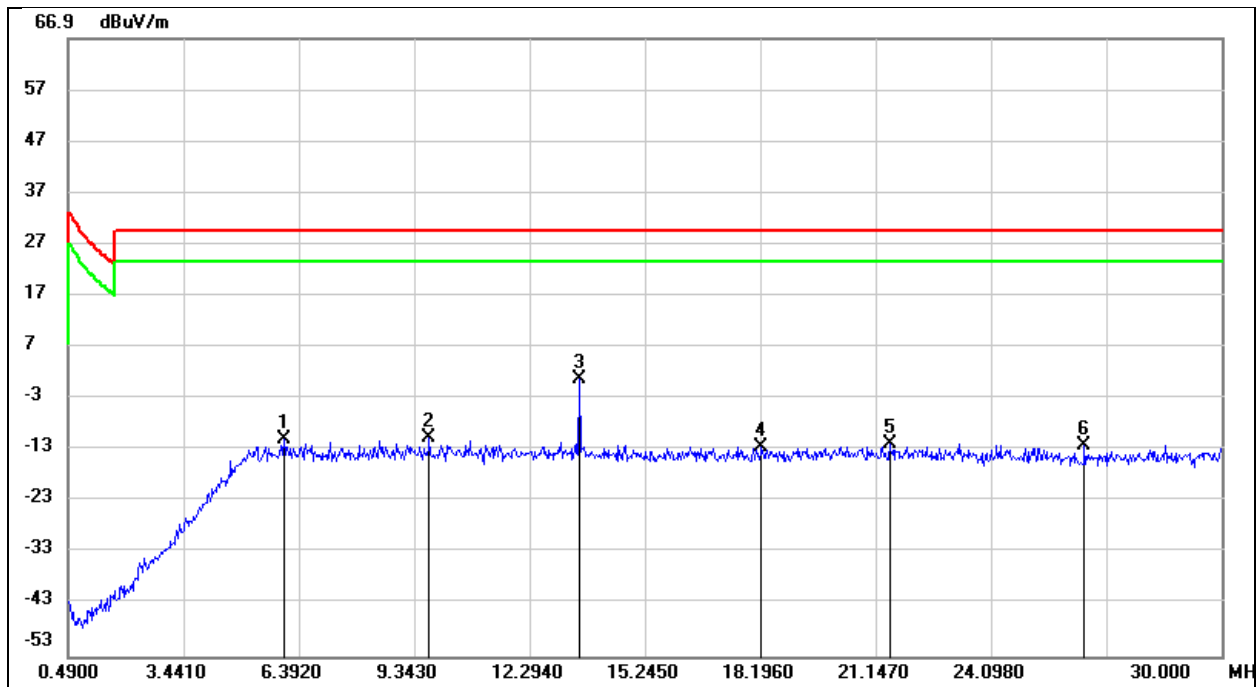
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 0.1527             | 57.47             | -89.10            | -31.63             | 23.93             | -55.56         | QP     |
| 2   | 0.1901             | 58.13             | -89.06            | -30.93             | 22.03             | -52.96         | QP     |
| 3   | 0.2415             | 52.80             | -89.01            | -36.21             | 19.94             | -56.15         | QP     |
| 4   | 0.2710             | 53.34             | -88.99            | -35.65             | 18.94             | -54.59         | QP     |
| 5   | 0.3203             | 51.32             | -88.97            | -37.65             | 17.49             | -55.14         | QP     |
| 6   | 0.3907             | 49.62             | -88.94            | -39.32             | 15.76             | -55.08         | QP     |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

### 490kHz ~ 30MHz



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 6.0083          | 37.29          | -48.38         | -11.09          | 29.54          | -40.63      | QP     |
| 2   | 9.7265          | 36.76          | -47.47         | -10.71          | 29.54          | -40.25      | QP     |
| 3   | 13.5629         | 48.09          | -47.43         | 0.66            | /              | /           | Note4  |
| 4   | 18.2255         | 34.73          | -47.03         | -12.30          | 29.54          | -41.84      | QP     |
| 5   | 21.5011         | 34.95          | -46.75         | -11.80          | 29.54          | -41.34      | QP     |
| 6   | 26.4882         | 34.29          | -46.55         | -12.26          | 29.54          | -41.80      | QP     |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

4. About the Fundamental emission test result please refer to section 7.1.

## 8. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

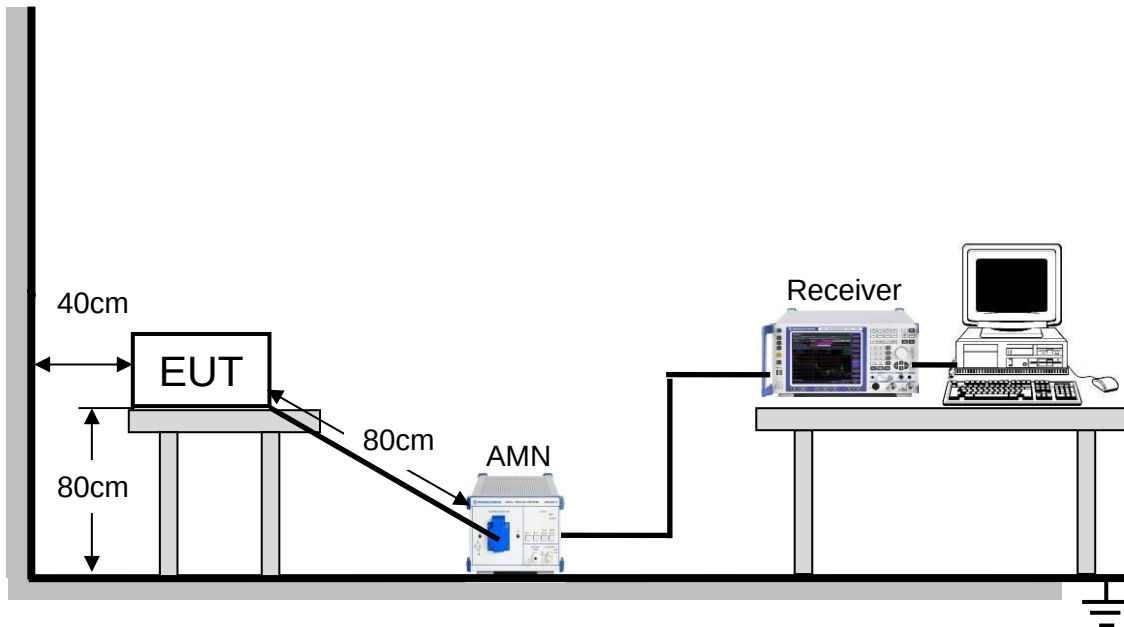
Please refer to CFR 47 FCC §15.207 (a).

| FREQUENCY (MHz) | Quasi-peak | Average   |
|-----------------|------------|-----------|
| 0.15 -0.5       | 66 - 56 *  | 56 - 46 * |
| 0.50 -5.0       | 56.00      | 46.00     |
| 5.0 -30.0       | 60.00      | 50.00     |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

## TEST SETUP AND PROCEDURE



The following table is the setting of the receiver

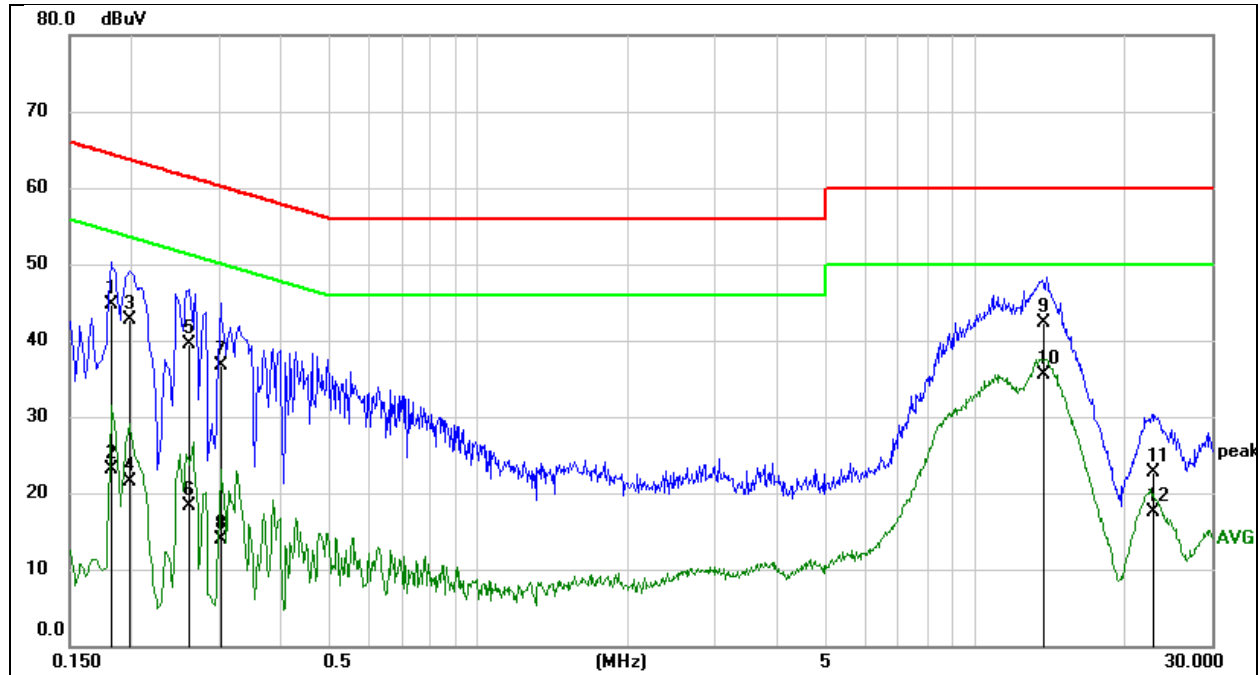
| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
5. LISN at least 80 cm from nearest part of EUT chassis.
6. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.
7. The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

## TEST ENVIRONMENT

|                     |        |                   |              |
|---------------------|--------|-------------------|--------------|
| Temperature         | 22.1°C | Relative Humidity | 52%          |
| Atmosphere Pressure | 101kPa | Test Voltage      | AC 120V_60Hz |

### LINE N RESULTS with modified sample (transmitter terminated into a dummy load)

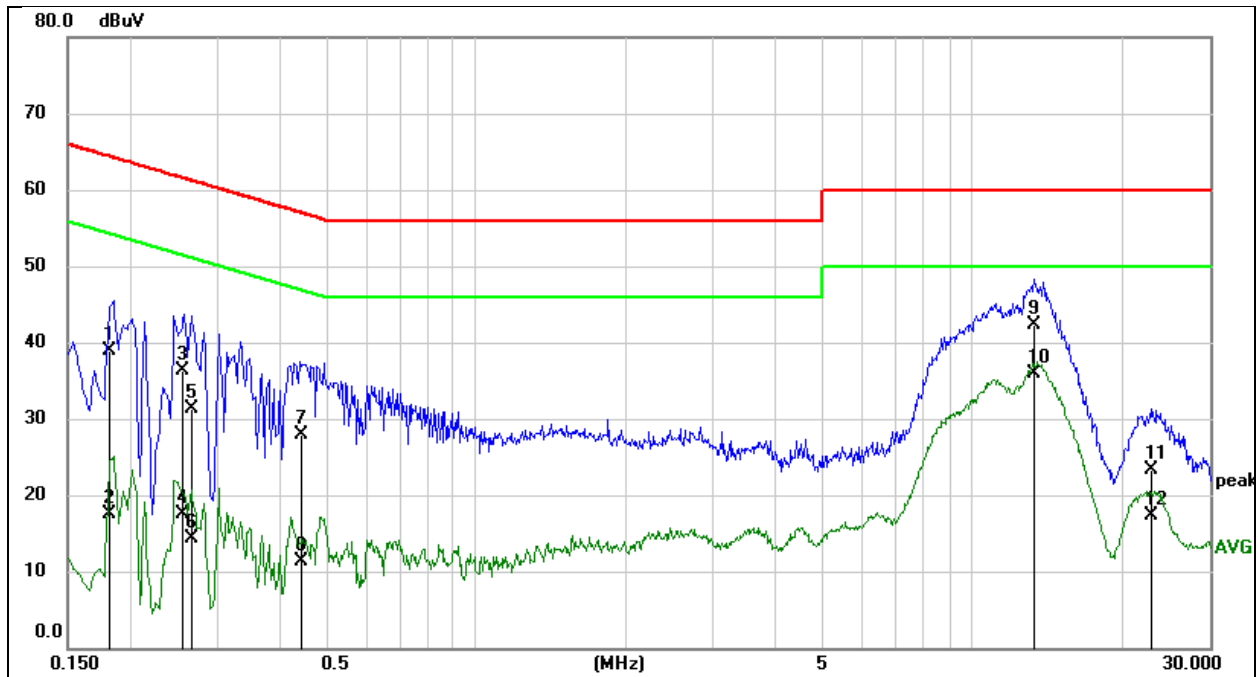


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1821             | 35.05             | 9.59            | 44.64            | 64.39           | -19.75         | QP     |
| 2   | 0.1821             | 13.45             | 9.59            | 23.04            | 54.39           | -31.35         | AVG    |
| 3   | 0.1966             | 33.18             | 9.59            | 42.77            | 63.75           | -20.98         | QP     |
| 4   | 0.1966             | 11.97             | 9.59            | 21.56            | 53.75           | -32.19         | AVG    |
| 5   | 0.2602             | 29.99             | 9.59            | 39.58            | 61.43           | -21.85         | QP     |
| 6   | 0.2602             | 8.65              | 9.59            | 18.24            | 51.43           | -33.19         | AVG    |
| 7   | 0.3005             | 27.18             | 9.59            | 36.77            | 60.23           | -23.46         | QP     |
| 8   | 0.3005             | 4.22              | 9.59            | 13.81            | 50.23           | -36.42         | AVG    |
| 9   | 13.8597            | 32.47             | 9.76            | 42.23            | 60.00           | -17.77         | QP     |
| 10  | 13.8597            | 25.84             | 9.76            | 35.60            | 50.00           | -14.40         | AVG    |
| 11  | 22.9623            | 12.89             | 9.80            | 22.69            | 60.00           | -37.31         | QP     |
| 12  | 22.9623            | 7.65              | 9.80            | 17.45            | 50.00           | -32.55         | AVG    |

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

### LINE L RESULTS with modified sample (transmitter terminated into a dummy load)

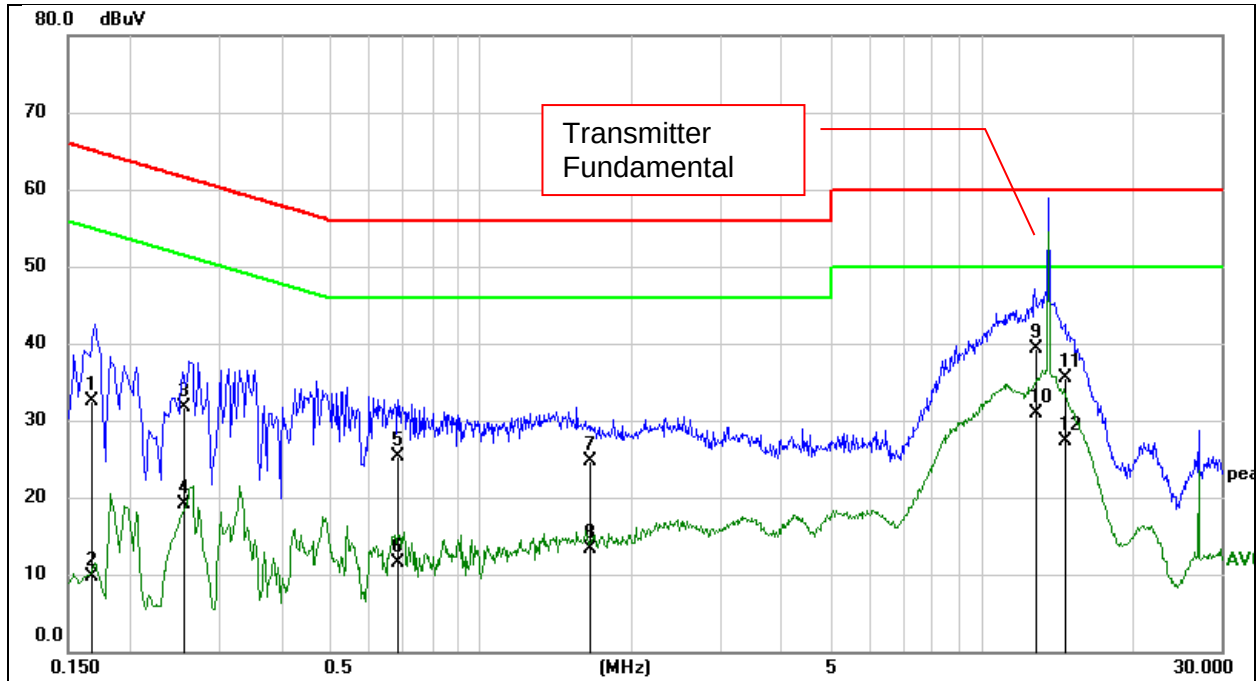


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1810             | 29.36             | 9.55            | 38.91            | 64.44           | -25.53         | QP     |
| 2   | 0.1810             | 7.98              | 9.55            | 17.53            | 54.44           | -36.91         | AVG    |
| 3   | 0.2543             | 26.74             | 9.57            | 36.31            | 61.62           | -25.31         | QP     |
| 4   | 0.2543             | 7.86              | 9.57            | 17.43            | 51.62           | -34.19         | AVG    |
| 5   | 0.2662             | 21.69             | 9.57            | 31.26            | 61.24           | -29.98         | QP     |
| 6   | 0.2662             | 4.76              | 9.57            | 14.33            | 51.24           | -36.91         | AVG    |
| 7   | 0.4421             | 18.34             | 9.52            | 27.86            | 57.02           | -29.16         | QP     |
| 8   | 0.4421             | 1.82              | 9.52            | 11.34            | 47.02           | -35.68         | AVG    |
| 9   | 13.3330            | 32.56             | 9.66            | 42.22            | 60.00           | -17.78         | QP     |
| 10  | 13.3330            | 26.34             | 9.66            | 36.00            | 50.00           | -14.00         | AVG    |
| 11  | 22.8466            | 13.56             | 9.73            | 23.29            | 60.00           | -36.71         | QP     |
| 12  | 22.8466            | 7.67              | 9.73            | 17.40            | 50.00           | -32.60         | AVG    |

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

**LINE N RESULTS with unmodified sample (antenna present)**

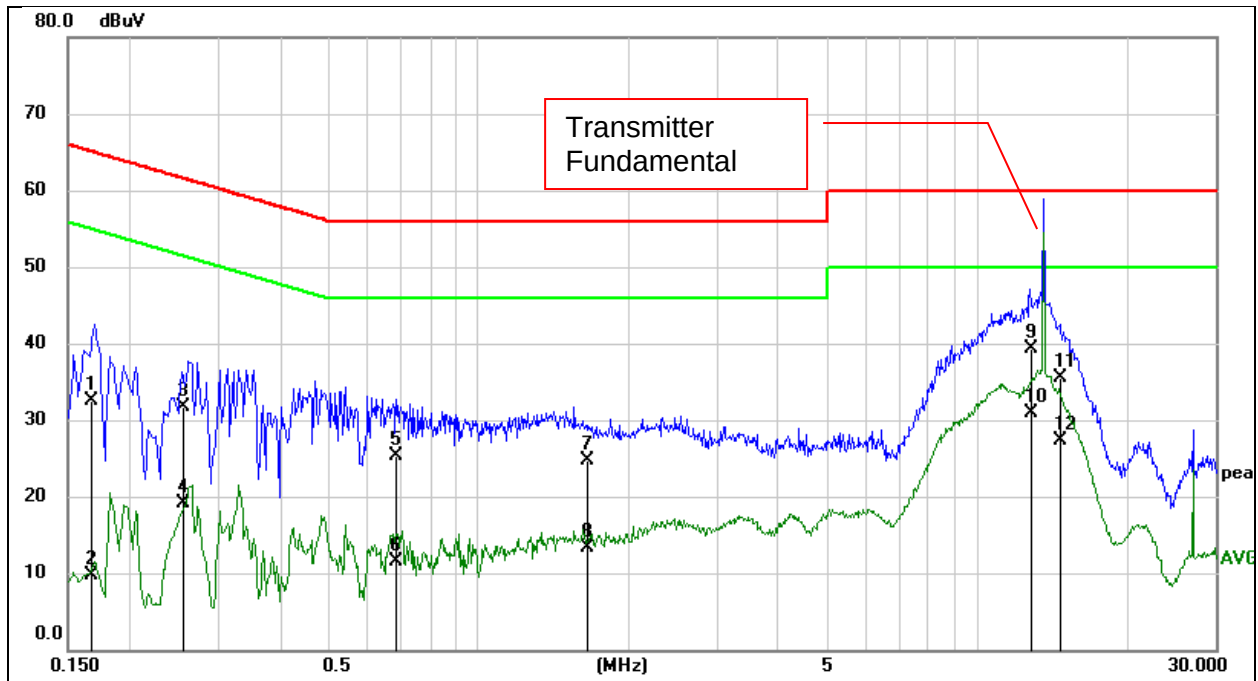


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.1663          | 22.97          | 9.52         | 32.49         | 65.14        | -32.65      | QP     |
| 2   | 0.1663          | 0.15           | 9.52         | 9.67          | 55.14        | -45.47      | AVG    |
| 3   | 0.2578          | 22.11          | 9.57         | 31.68         | 61.50        | -29.82      | QP     |
| 4   | 0.2578          | 9.62           | 9.57         | 19.19         | 51.50        | -32.31      | AVG    |
| 5   | 0.6846          | 15.83          | 9.50         | 25.33         | 56.00        | -30.67      | QP     |
| 6   | 0.6846          | 1.95           | 9.50         | 11.45         | 46.00        | -34.55      | AVG    |
| 7   | 1.6553          | 15.06          | 9.59         | 24.65         | 56.00        | -31.35      | QP     |
| 8   | 1.6553          | 3.72           | 9.59         | 13.31         | 46.00        | -32.69      | AVG    |
| 9   | 12.8176         | 29.67          | 9.66         | 39.33         | 60.00        | -20.67      | QP     |
| 10  | 12.8176         | 21.27          | 9.66         | 30.93         | 50.00        | -19.07      | AVG    |
| 11  | 14.6428         | 25.82          | 9.66         | 35.48         | 60.00        | -24.52      | QP     |
| 12  | 14.6428         | 17.73          | 9.66         | 27.39         | 50.00        | -22.61      | AVG    |

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

### LINE L RESULTS with unmodified sample (antenna present)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1   | 0.1663          | 22.97          | 9.52         | 32.49         | 65.14        | -32.65      | QP     |
| 2   | 0.1663          | 0.15           | 9.52         | 9.67          | 55.14        | -45.47      | AVG    |
| 3   | 0.2578          | 22.11          | 9.57         | 31.68         | 61.50        | -29.82      | QP     |
| 4   | 0.2578          | 9.62           | 9.57         | 19.19         | 51.50        | -32.31      | AVG    |
| 5   | 0.6846          | 15.83          | 9.50         | 25.33         | 56.00        | -30.67      | QP     |
| 6   | 0.6846          | 1.95           | 9.50         | 11.45         | 46.00        | -34.55      | AVG    |
| 7   | 1.6553          | 15.06          | 9.59         | 24.65         | 56.00        | -31.35      | QP     |
| 8   | 1.6553          | 3.72           | 9.59         | 13.31         | 46.00        | -32.69      | AVG    |
| 9   | 12.8176         | 29.67          | 9.66         | 39.33         | 60.00        | -20.67      | QP     |
| 10  | 12.8176         | 21.27          | 9.66         | 30.93         | 50.00        | -19.07      | AVG    |
| 11  | 14.6428         | 25.82          | 9.66         | 35.48         | 60.00        | -24.52      | QP     |
| 12  | 14.6428         | 17.73          | 9.66         | 27.39         | 50.00        | -22.61      | AVG    |

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

## 9. ANTENNA REQUIREMENTS

### APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

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 a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### RESULTS

Complies

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**END OF REPORT**