

# EMC

## TEST REPORT

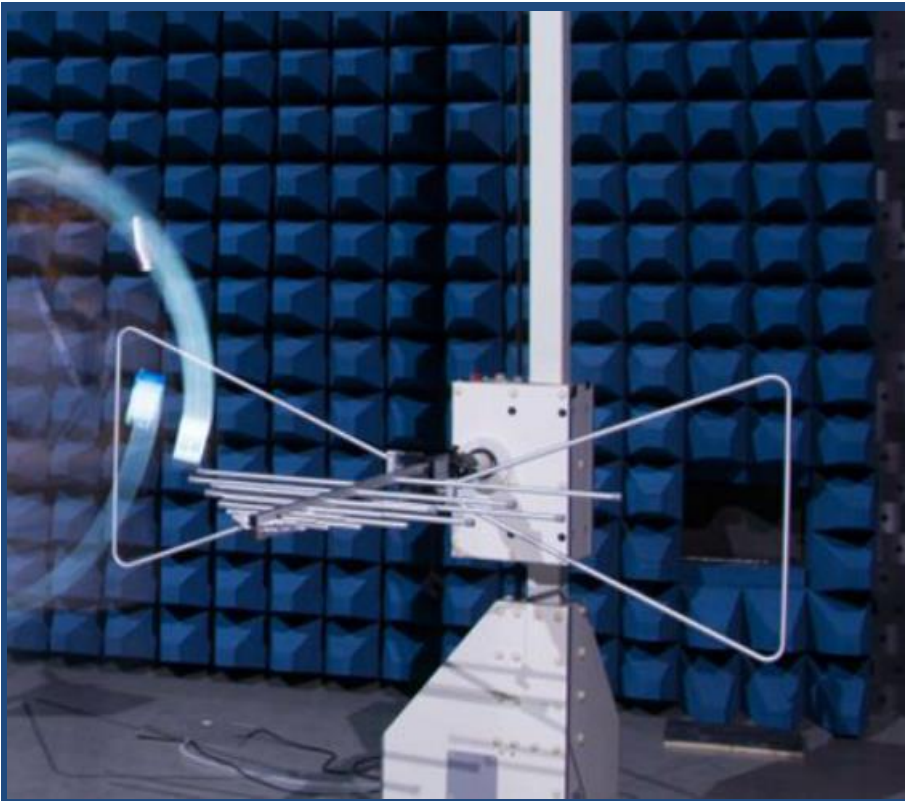
ISSUED BY  
Shenzhen BALUN Technology Co., Ltd.



FOR  
**5G Digital Mobile Phone**

ISSUED TO  
Blackshark Technologies (Nanchang) Co., Ltd.

Room 815-1, 8th floor, Block A, Huajiang Building, No.1 Tsinghua  
Science Park, Nanchang City, China



Tested by:

Sijie Zheng

Sijie Zheng

Date Feb. 18, 2022

Approved by:

Liao Jianming

(Technical Director)

Date Feb. 18, 2022

Report No.: BL-EC21C0184-401

EUT Name: 5G Digital Mobile Phone

Model Name: SHARK KSR-H0

Brand Name: BLACK SHARK

Test Standard: 47 CFR Part 15 Subpart B

FCC ID: 2A2ZHKSR-H0

Test Conclusion: Pass

Test Date: Dec. 13, 2021 ~ Dec. 15, 2021

Date of Issue: Feb. 18, 2022

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**Revision History**

| Version        | Issue Date           | Revisions Content                                                                                          |
|----------------|----------------------|------------------------------------------------------------------------------------------------------------|
| <u>Rev. 01</u> | <u>Feb. 11, 2022</u> | <u>Initial Issue</u>                                                                                       |
| <u>Rev. 02</u> | <u>Feb. 18, 2022</u> | <u>Update the technical information in section 2.6 and the addresses of the applicant and manufacturer</u> |

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## 1 GENERAL INFORMATION

### 1.1 Identification of the Testing Laboratory

|              |                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------|
| Company Name | Shenzhen BALUN Technology Co.,Ltd.                                                                                              |
| Address      | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100                                                                                                               |
| Fax Number   | +86 755 6182 4271                                                                                                               |

### 1.2 Identification of the Responsible Testing Location

|                           |                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location             | Shenzhen BALUN Technology Co.,Ltd.                                                                                                                                                                                  |
| Address                   | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China                                                                                     |
| Accreditation Certificate | The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.                                                                                    |
| Description               | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055 |

### 1.3 Laboratory Condition

|                           |                    |
|---------------------------|--------------------|
| Ambient Temperature       | 20°C to 25°C       |
| Ambient Relative Humidity | 30% to 60%         |
| Ambient Pressure          | 100 kPa to 102 kPa |

### 1.4 Announce

- (1) The test report reference to the report template version v7.2.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (7) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

|           |                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------|
| Applicant | Blackshark Technologies (Nanchang) Co., Ltd.                                                        |
| Address   | Room 815-1, 8th floor, Block A, Huajiang Building, No.1 Tsinghua Science Park, Nanchang City, China |

### 2.2 Manufacturer Information

|              |                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------|
| Manufacturer | Blackshark Technologies (Nanchang) Co., Ltd.                                                        |
| Address      | Room 815-1, 8th floor, Block A, Huajiang Building, No.1 Tsinghua Science Park, Nanchang City, China |

### 2.3 Factory Information

|         |     |
|---------|-----|
| Factory | N/A |
| Address | N/A |

### 2.4 General Description for Equipment under Test (EUT)

|                                           |                         |
|-------------------------------------------|-------------------------|
| EUT Name                                  | 5G Digital Mobile Phone |
| Model Name Under Test                     | SHARK KSR-H0            |
| Series Model Name                         | N/A                     |
| Description of Model name differentiation | N/A                     |
| Hardware Version                          | N/A                     |
| Software Version                          | N/A                     |
| Dimensions (Approx.)                      | N/A                     |
| Weight (Approx.)                          | N/A                     |

## 2.5 Ancillary Equipment

|                       |                      |             |
|-----------------------|----------------------|-------------|
| Ancillary Equipment 1 | Battery              |             |
|                       | Brand Name           | N/A         |
|                       | Model No.            | BS08FA      |
|                       | Serial No.           | N/A         |
|                       | Capacity             | 2180 mAh    |
|                       | Rated Voltage        | 7.74 V      |
|                       | Limit Charge Voltage | 8.90 V      |
| Ancillary Equipment 2 | Adapter              |             |
|                       | Brand Name           | N/A         |
|                       | Model No.            | MDY-13-EG-1 |
|                       | Serial No.           | N/A         |
|                       | Rated Input          | N/A         |
|                       | Rated Output         | N/A         |
| Ancillary Equipment 3 | USB Cable            |             |
|                       | Model No.            | N/A         |
|                       | Length (Approx.)     | 0.8 m       |

## 2.6 Technical Information

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network and Wireless connectivity | 2G Network GSM/GPRS/EDGE 850/1900 MHz<br>3G Network WCDMA/HSDPA/HSUPA Band 2/4/5<br>EVDO Rel. 0/Rev. A Band Class 0<br>4G Network LTE FDD Band 5/7<br>LTE TDD Band 38/41<br>LTE CA Uplink (UL): CA_7C<br>5G Network SA: NR n41/n77/n78<br>NSA(EN-DC): DC_5A_n78A, DC_7A_n78A, DC_38A_n78A<br>Bluetooth (BR+EDR+BLE)<br>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40),<br>802.11ax(HE20/40)<br>5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80/160)<br>and 802.11ax(HE20/40/80/160)<br>U-NII-1/2A/2C/3, GPS, GLONASS, BDS, Galileo,<br>FM Receiver, NFC |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

| No. | Identity                 | Document Title                                                                                                                                                      |
|-----|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 15 Subpart B | Unintentional Radiators                                                                                                                                             |
| 2   | ANSI C63.4-2014          | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |

#### 3.2 Verdict

| No. | Description                  | FCC Rule | Test Verdict | Result     |
|-----|------------------------------|----------|--------------|------------|
| 1   | Radiated Emission            | 15.109   | Pass         | Annex A .1 |
| 2   | Conducted Emission, AC Ports | 15.107   | Pass         | Annex A .2 |

#### 3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Measurement                        | Value   |
|------------------------------------|---------|
| Conducted emissions (9 kHz-30 MHz) | 2.96 dB |
| Radiated emissions (30 MHz-1 GHz)  | 3.67 dB |
| Radiated emissions (1 GHz-18 GHz)  | 3.57 dB |
| Radiated emissions (18 GHz-40 GHz) | 5.16 dB |

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

| Environment Parameter                           | Selected Values During Tests |                                                |                   |                    |
|-------------------------------------------------|------------------------------|------------------------------------------------|-------------------|--------------------|
|                                                 | Temperature                  | Voltage                                        | Relative Humidity | Ambient Pressure   |
| Normal Temperature,<br>Normal Voltage<br>(NTNV) | 20°C to 25°C                 | AC 120 V/60 Hz<br>or DC 7.74 V<br>from Battery | 30% to 60%        | 100 kPa to 102 kPa |

### 4.2 Test Equipment List

| Radiated Emission Test For Frequency Below 1 GHz (10 m) |                         |                       |            |            |            |                          |
|---------------------------------------------------------|-------------------------|-----------------------|------------|------------|------------|--------------------------|
| Description                                             | Manufacturer            | Model                 | Serial No. | Cal. Date  | Cal. Due   | Use                      |
| EMI Receiver                                            | ROHDE&SCHWARZ           | ESRP                  | 101036     | 2021.10.08 | 2022.10.09 | <input type="checkbox"/> |
| Test Antenna-Bi-Log                                     | SCHWARZBECK             | VULB 9168             | 9168-0883  | 2020.05.11 | 2022.05.10 | <input type="checkbox"/> |
| Anechoic Chamber                                        | EMC Electronic Co., Ltd | 20.10*11.60<br>*7.35m | N/A        | 2021.08.15 | 2024.08.14 | <input type="checkbox"/> |
| Test Software                                           | BALUN                   | BL410_E               | V19.918    | --         | --         | <input type="checkbox"/> |

| Radiated Emission Test For Frequency Below 1 GHz (3 m) |              |           |            |            |            |                                     |
|--------------------------------------------------------|--------------|-----------|------------|------------|------------|-------------------------------------|
| Description                                            | Manufacturer | Model     | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| EMI Receiver                                           | KEYSIGHT     | N9038A    | MY53220118 | 2021.09.13 | 2022.09.12 | <input checked="" type="checkbox"/> |
| Test Antenna-Bi-Log                                    | SCHWARZBECK  | VULB 9163 | 9163-624   | 2019.07.02 | 2022.07.01 | <input checked="" type="checkbox"/> |
| Anechoic Chamber                                       | YIHENG       | 9m*6m*6m  | N/A        | 2021.09.04 | 2024.09.03 | <input checked="" type="checkbox"/> |
| Test Software                                          | BALUN        | BL410_E   | V19.918    | --         | --         | <input checked="" type="checkbox"/> |

| Radiated Emission Test For Frequency 1 GHz-18 GHz |              |            |            |            |            |                                     |
|---------------------------------------------------|--------------|------------|------------|------------|------------|-------------------------------------|
| Description                                       | Manufacturer | Model      | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| EMI Receiver                                      | KEYSIGHT     | N9038A     | MY53220118 | 2021.09.13 | 2022.09.12 | <input checked="" type="checkbox"/> |
| Test Antenna-Horn                                 | SCHWARZBECK  | BBHA 9120D | 9120D-1917 | 2019.07.02 | 2022.07.01 | <input checked="" type="checkbox"/> |
| Anechoic Chamber                                  | YIHENG       | 9m*6m*6m   | N/A        | 2021.09.04 | 2024.09.03 | <input checked="" type="checkbox"/> |
| Test Software                                     | BALUN        | BL410_E    | V19.918    | --         | --         | <input checked="" type="checkbox"/> |

| Radiated Emission Test For Frequency Above 18 GHz |                 |             |            |            |            |                                     |
|---------------------------------------------------|-----------------|-------------|------------|------------|------------|-------------------------------------|
| Description                                       | Manufacturer    | Model       | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| EMI Receiver                                      | ROHDE & SCHWARZ | FSV40       | 101544     | 2021.04.01 | 2022.03.31 | <input checked="" type="checkbox"/> |
| Test Antenna-Horn                                 | A-INFOMW        | LB-180400KF | J211060273 | 2021.07.02 | 2024.07.01 | <input checked="" type="checkbox"/> |
| Anechoic Chamber                                  | YIHENG          | 9m*6m*6m    | N/A        | 2021.09.04 | 2024.09.03 | <input checked="" type="checkbox"/> |
| Test Software                                     | BALUN           | BL410_E     | V19.918    | --         | --         | <input checked="" type="checkbox"/> |

| Conducted disturbance Test |                            |                |            |            |            |                                     |
|----------------------------|----------------------------|----------------|------------|------------|------------|-------------------------------------|
| Description                | Manufacturer               | Model          | Serial No. | Cal. Date  | Cal. Due   | Use                                 |
| EMI Receiver               | KEYSIGHT                   | N9010B         | MY57110309 | 2021.10.10 | 2022.10.09 | <input checked="" type="checkbox"/> |
| LISN                       | SCHWARZBECK                | NSLK 8127      | 8127-687   | 2021.06.08 | 2022.06.07 | <input checked="" type="checkbox"/> |
| Shielded Enclosure         | YiHeng Electronic Co., Ltd | 3.4m*3.1m*2.8m | N/A        | 2021.08.14 | 2024.08.13 | <input checked="" type="checkbox"/> |
| Test Software              | BALUN                      | BL410_E        | V19.918    | --         | --         | <input checked="" type="checkbox"/> |

### 4.3 Test Enclosure list

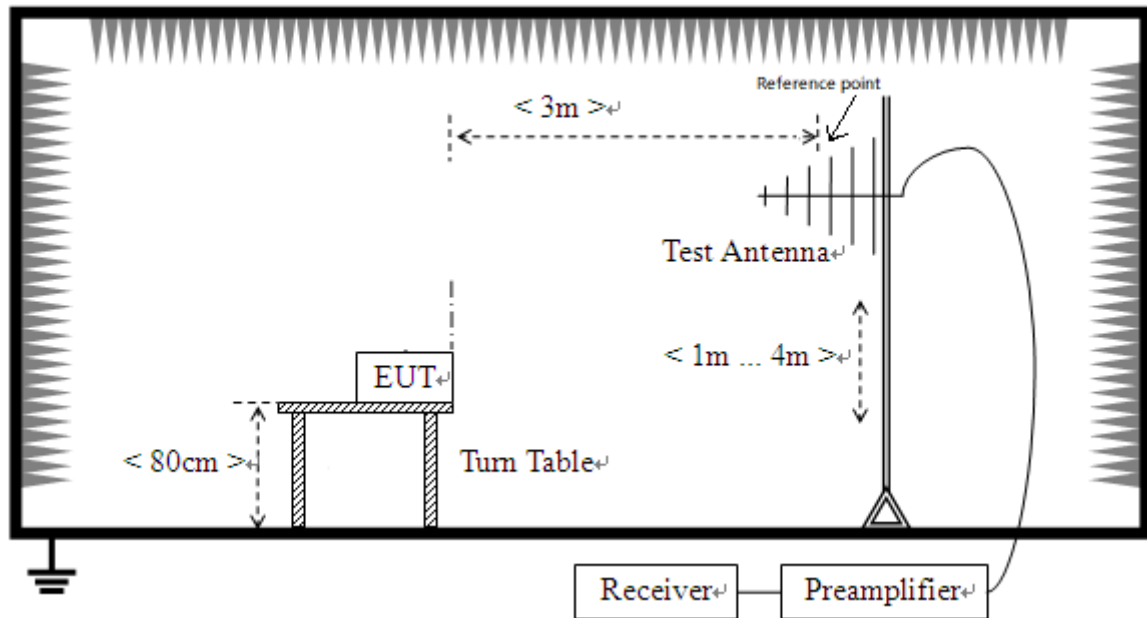
| Description                       | Manufacturer | Model        | Serial No.             | Length | Description         | Use                                 |
|-----------------------------------|--------------|--------------|------------------------|--------|---------------------|-------------------------------------|
| PC                                | Dell         | 015K3N       | N/A                    | N/A    | Special Handled     | <input type="checkbox"/>            |
| Laptop                            | Honor        | N.A          | N/A                    | N/A    | N/A                 | <input checked="" type="checkbox"/> |
| Laptop                            | Apple        | A1465        | N/A                    | N/A    | N/A                 | <input checked="" type="checkbox"/> |
| Printer                           | HP           | DESKJET 1000 | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Keyboard                          | Logitech     | Y-BP62a      | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Mouse                             | Logitech     | M100         | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| USB disk                          | Kingston     | N/A          | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| TF Card                           | Kingston     | N/A          | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| VGA Cable                         | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |
| HDMI Cable                        | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |
| DVI Cable                         | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |
| Coaxial video cable               | N/A          | N/A          | N/A                    | 2.0 m  | Shielded with core  | <input type="checkbox"/>            |
| iPhone                            | Apple        | A1586        | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Phone                             | MI           | M4           | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Bluetooth Earphone                | SAMSUNG      | Gear Circle  | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Wireless Communication s Test Set | R&S          | CMW500       | 142028                 | N/A    | Cal. Due 2022.05.31 | <input checked="" type="checkbox"/> |
| WIFI Router                       | TP-LINK      | TL-WDR7500   | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| Earphone                          | N/A          | OPPO         | N/A                    | 1.1 m  | N/A                 | <input checked="" type="checkbox"/> |
| Car Battery                       | Camel        | 55530        | N/A                    | N/A    | 12 V/55 Ah          | <input type="checkbox"/>            |
| Artificial load                   | N/A          | N/A          | N/A                    | N/A    | 2.5 $\Omega$ /100 W | <input type="checkbox"/>            |
| Artificial load                   | N/A          | N/A          | N/A                    | N/A    | 5 $\Omega$ /100 W   | <input type="checkbox"/>            |
| Electronic Load                   | ITECH        | IT8511       | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| USB Cable                         | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |
| DC Power Supply                   | ITECH        | IT6863A      | 60001401068<br>7210006 | N/A    | N/A                 | <input type="checkbox"/>            |
| LCD Monitor                       | SAMSUNG      | UA32C4000P   | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| LCD Monitor                       | Dell         | U241HB       | N/A                    | N/A    | N/A                 | <input type="checkbox"/>            |
| RJ45 Cable                        | N/A          | N/A          | N/A                    | 1.5 m  | Shielded with core  | <input type="checkbox"/>            |

## 4.4 Test Configurations

| Test Configurations (TC) No. | Description                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------|
| TC01                         | <u>The GSM 850 MHz RX Test Mode</u><br>GSM 850 MHz RX + EUT +Adapter + USB Cable + Battery     |
| TC02                         | <u>The EGPRS 850 MHz RX Test Mode</u><br>EGPRS 850 MHz RX + EUT +Adapter + USB Cable + Battery |
| TC03                         | <u>The WCDMA Band 5 RX Test Mode</u><br>WCDMA Band 5 RX + EUT +Adapter + USB Cable + Battery   |
| TC04                         | <u>The FDD LTE Band 5 RX Test Mode</u><br>LTE Band 5 RX + EUT +Adapter + USB Cable + Battery   |
| TC05                         | <u>The EVDO BC0 RX Test Mode</u><br>EVDO BC0 RX + EUT +Adapter + USB Cable + Battery           |
| TC06                         | <u>The Camera Test Mode</u><br>EUT + Adapter + USB Cable + Battery + Earphone                  |
| TC07                         | <u>The Video Play Test Mode</u><br>EUT + Adapter + USB Cable + Battery + Earphone              |
| TC08                         | <u>The USB Test Mode</u><br>EUT + USB Cable + Battery + Laptop+ Earphone                       |

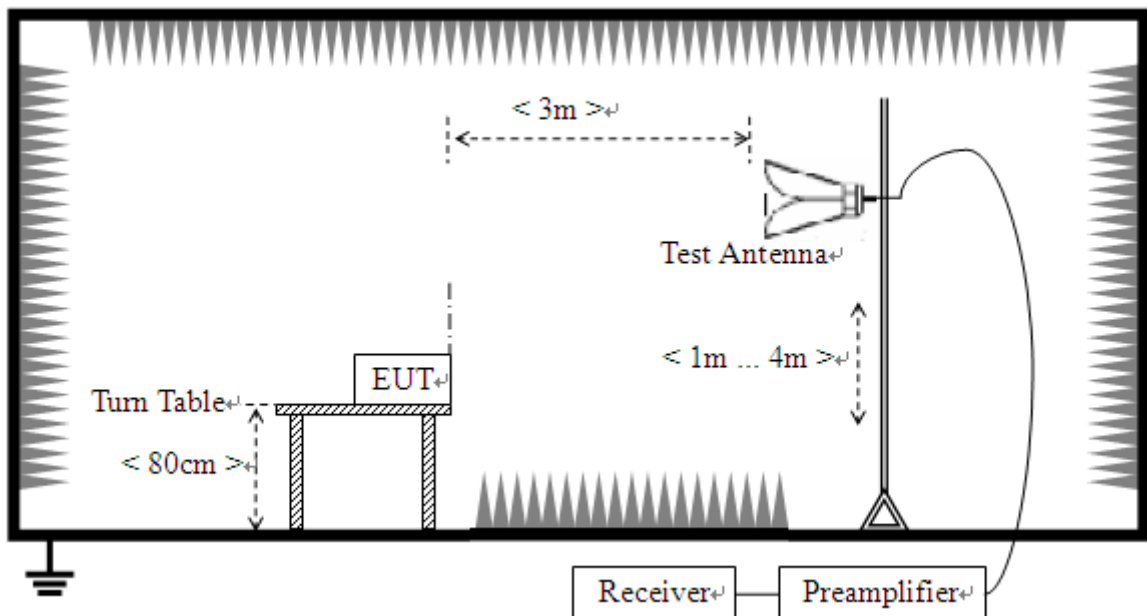
## 4.5 Test Setups

### Test Setup 1



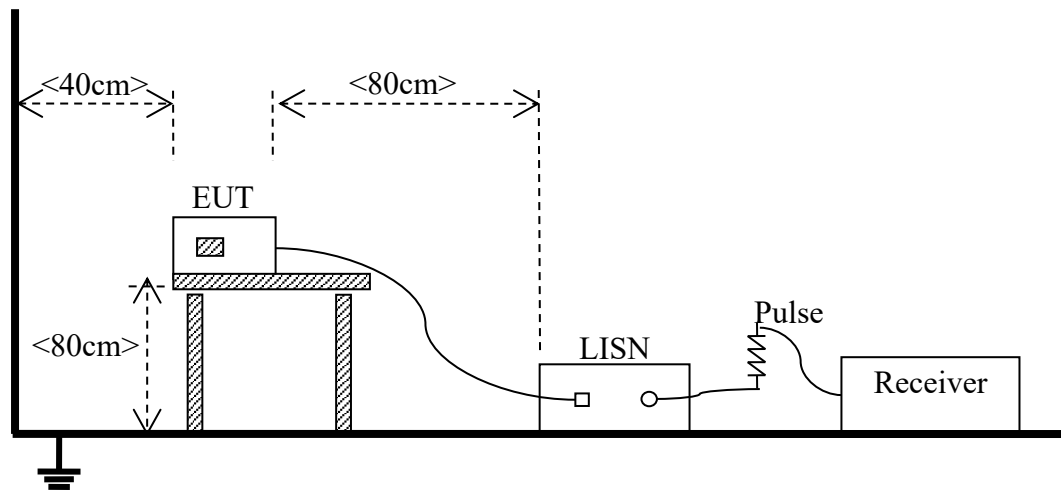
(For Radiated Emission Test (30 MHz-1 GHz))

### Test Setup 2



(For Radiated Emission Test (above 1 GHz))

### Test Setup 3



(For Conducted Emission, AC Ports Test)

## 4.6 Test Conditions

| Test Case                    | Test Conditions    |                           |
|------------------------------|--------------------|---------------------------|
| Radiated Emission            | Test Env.          | NTNV                      |
|                              | Test Setup         | Test Setup 1&2            |
|                              | Test Configuration | TC01~TC08 <sup>Note</sup> |
| Conducted Emission, AC Ports | Test Env.          | NTNV                      |
|                              | Test Setup         | Test Setup 3              |
|                              | Test Configuration | TC01~TC08 <sup>Note</sup> |

Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report. The Camera Test Mode is the worst mode in this report.

## 5 TEST ITEMS

### 5.1 Emission Tests

#### 5.1.1 Radiated Emission

##### 5.1.1.1 Limit

| Frequency range (MHz) | Class B (at 3 m)      |                         | Class B (at 10 m)       | Class A (at 10 m)     |                         |
|-----------------------|-----------------------|-------------------------|-------------------------|-----------------------|-------------------------|
|                       | Field Strength (μV/m) | Field Strength (dBμV/m) | Field Strength (dBμV/m) | Field Strength (μV/m) | Field Strength (dBμV/m) |
| 30 - 88               | 100                   | 40                      | 30                      | 90                    | 39                      |
| 88 - 216              | 150                   | 43.5                    | 33.5                    | 150                   | 43.5                    |
| 216 - 960             | 200                   | 46                      | 36                      | 210                   | 46.4                    |
| Above 960             | 500                   | 54                      | 44                      | 300                   | 49.5                    |

NOTE:

- 1) Field Strength (dBμV/m) =  $20 \times \log [\text{Field Strength } (\mu\text{V/m})]$ .
- 2) In the emission tables above, the tighter limit applies at the band edges.

##### 5.1.1.2 Test Setup

Refer to 4.5 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

##### 5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

##### 5.1.1.4 Test Result

Please refer to ANNEX A.1.

NOTE:

1. Results (dBuV/m) = Reading (dBuV/m) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

## 5.1.2 Conducted Emission

### 5.1.2.1 Test Limit

| Frequency range (MHz) | Class A           |                |
|-----------------------|-------------------|----------------|
|                       | Quasi-peak (dBμV) | Average (dBμV) |
| 0.15 - 0.50           | 79                | 66             |
| 0.50 - 30             | 73                | 60             |

| Frequency range (MHz) | Class B           |                |
|-----------------------|-------------------|----------------|
|                       | Quasi-peak (dBμV) | Average (dBμV) |
| 0.15 - 0.50           | 66 to 56          | 56 to 46       |
| 0.50 - 5              | 56                | 46             |
| 5 - 30                | 60                | 50             |

**NOTE:**

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

### 5.1.2.2 Test Setup

Refer to 4.5 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

### 5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50 Ω/50 μH of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

### 5.1.2.4 Test Result

Please refer to ANNEX A.2.

**NOTE:**

1. Results (dBuV) = Reading (dBuV) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Over limit = Results – Limit.

## ANNEX A TEST RESULTS

### A.1 Radiated Emission

Note 1: The symbol of "--" in the table which means not application.

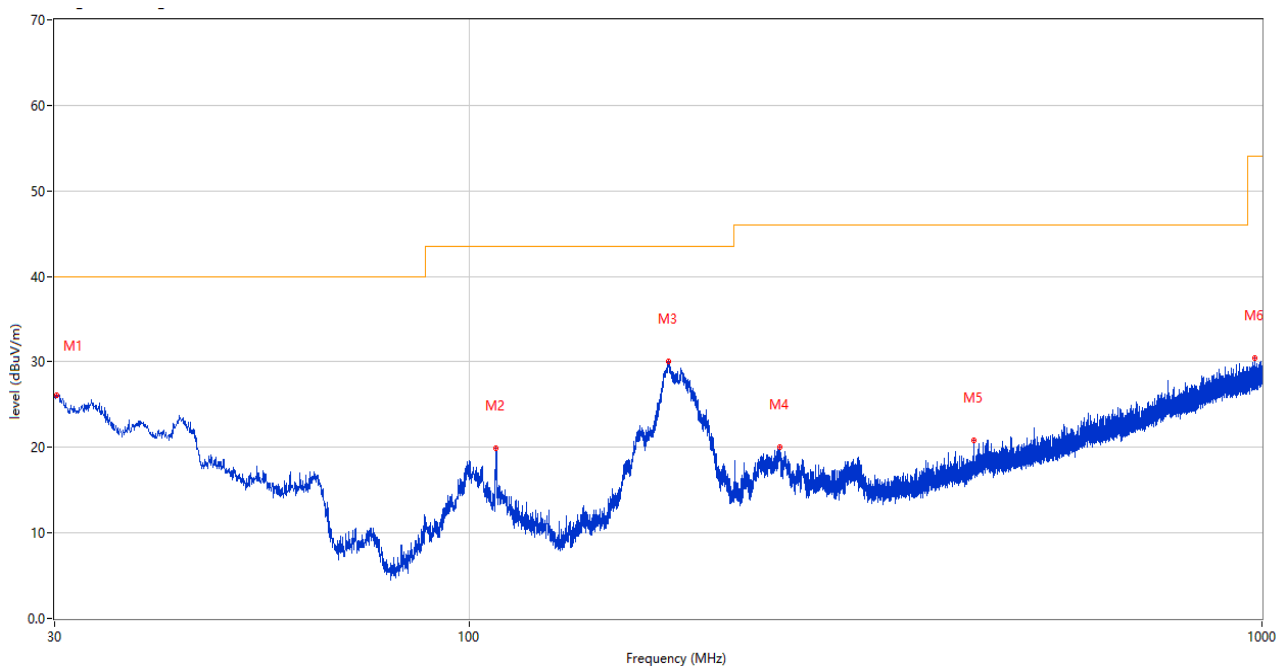
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The Radiated Emission from 18G-40G is noise only, do not show on the report.

#### Test Data and Plots

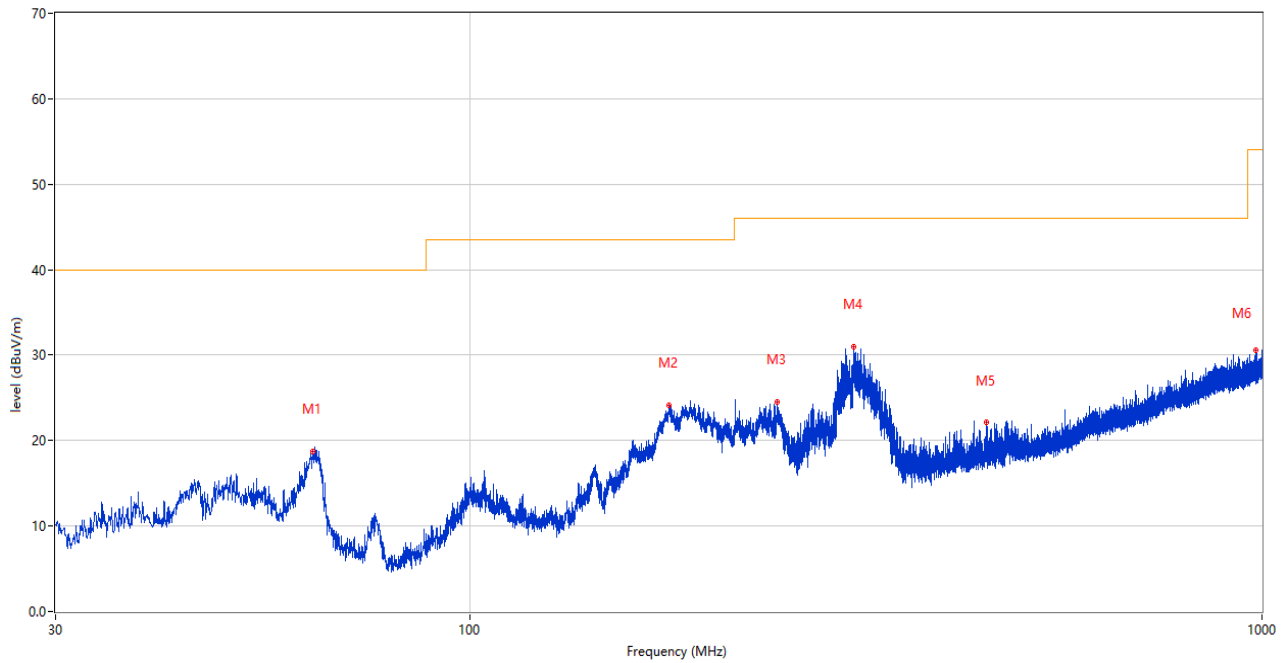
##### The Camera Test Mode

##### A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz



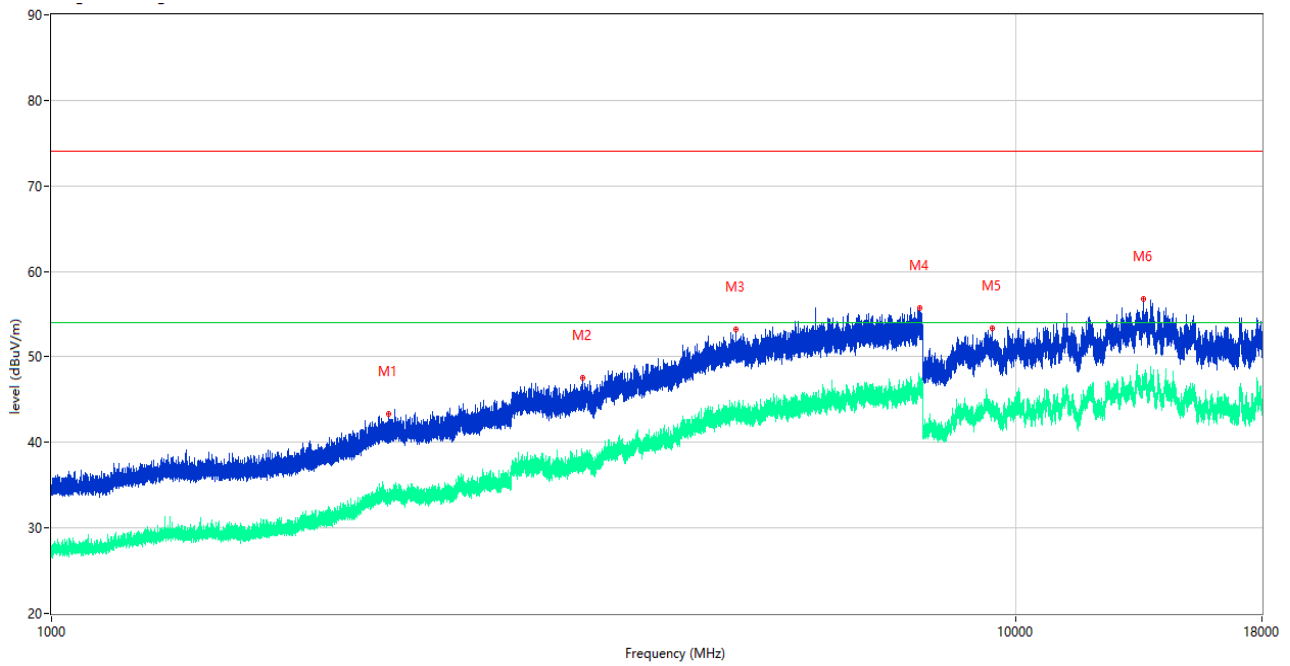
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|----------|---------|
| 1   | 30.145          | 26.15            | -28.89      | 40.0           | -13.85          | Peak     | 360.00         | 200         | Vertical | Pass    |
| 2   | 108.133         | 19.93            | -26.59      | 43.5           | -23.57          | Peak     | 203.00         | 100         | Vertical | Pass    |
| 3   | 178.264         | 30.11            | -28.62      | 43.5           | -13.39          | Peak     | 76.00          | 100         | Vertical | Pass    |
| 4   | 246.844         | 20.03            | -24.96      | 46.0           | -25.97          | Peak     | 76.00          | 100         | Vertical | Pass    |
| 5   | 432.695         | 20.80            | -20.17      | 46.0           | -25.20          | Peak     | 360.00         | 200         | Vertical | Pass    |
| 6   | 979.630         | 30.50            | -8.63       | 54.0           | -23.50          | Peak     | 111.00         | 200         | Vertical | Pass    |

## A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz



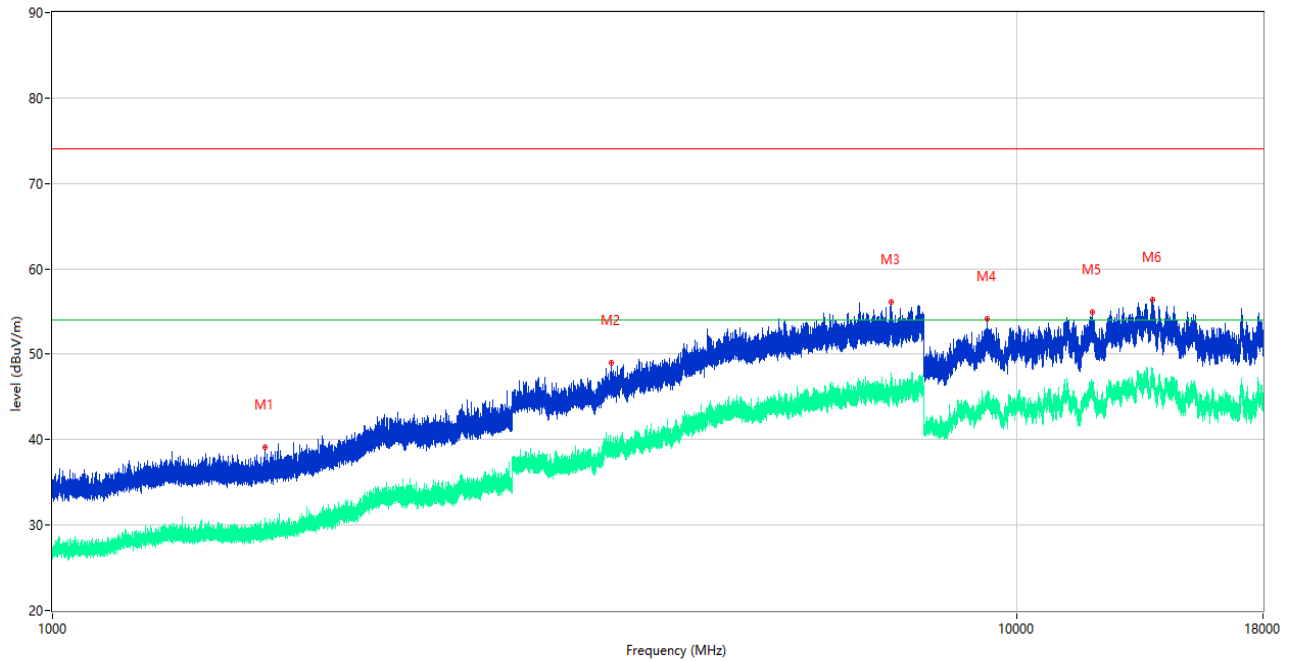
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|------------|---------|
| 1   | 63.368          | 18.69            | -27.21      | 40.0           | -21.31          | Peak     | 27.00          | 100         | Horizontal | Pass    |
| 2   | 178.313         | 24.07            | -28.61      | 43.5           | -19.43          | Peak     | 77.00          | 200         | Horizontal | Pass    |
| 3   | 244.322         | 24.51            | -25.09      | 46.0           | -21.49          | Peak     | 66.00          | 100         | Horizontal | Pass    |
| 4   | 305.674         | 31.03            | -23.62      | 46.0           | -14.97          | Peak     | 40.00          | 100         | Horizontal | Pass    |
| 5   | 449.040         | 22.16            | -19.93      | 46.0           | -23.84          | Peak     | 40.00          | 100         | Horizontal | Pass    |
| 6   | 983.122         | 30.52            | -8.62       | 54.0           | -23.48          | Peak     | 298.00         | 200         | Horizontal | Pass    |

### A.1.3 Test Antenna Vertical, 1 GHz – 18 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|----------|---------|
| 1   | 2238.600        | 43.36            | -12.19      | 74.0           | -30.64          | Peak     | 360.00         | 100         | Vertical | Pass    |
| 1** | 2238.600        | 33.76            | -12.19      | 54.0           | -20.24          | AV       | 360.00         | 100         | Vertical | Pass    |
| 2   | 3552.250        | 47.55            | -4.95       | 74.0           | -26.45          | Peak     | 316.00         | 100         | Vertical | Pass    |
| 2** | 3552.250        | 37.47            | -4.95       | 54.0           | -16.53          | AV       | 316.00         | 100         | Vertical | Pass    |
| 3   | 5121.250        | 53.17            | 0.26        | 74.0           | -20.83          | Peak     | 186.00         | 100         | Vertical | Pass    |
| 3** | 5121.250        | 43.80            | 0.26        | 54.0           | -10.20          | AV       | 186.00         | 100         | Vertical | Pass    |
| 4   | 7951.750        | 55.76            | 2.96        | 74.0           | -18.24          | Peak     | 163.00         | 100         | Vertical | Pass    |
| 4** | 7951.750        | 46.52            | 2.96        | 54.0           | -7.48           | AV       | 163.00         | 100         | Vertical | Pass    |
| 5   | 9460.000        | 53.31            | 1.62        | 74.0           | -20.69          | Peak     | 83.00          | 100         | Vertical | Pass    |
| 5** | 9460.000        | 44.52            | 1.62        | 54.0           | -9.48           | AV       | 83.00          | 100         | Vertical | Pass    |
| 6   | 13569.000       | 56.73            | 4.73        | 74.0           | -17.27          | Peak     | 83.00          | 100         | Vertical | Pass    |
| 6** | 13569.000       | 47.06            | 4.73        | 54.0           | -6.94           | AV       | 83.00          | 100         | Vertical | Pass    |

#### A.1.4 Test Antenna Horizontal, 1 GHz – 18 GHz

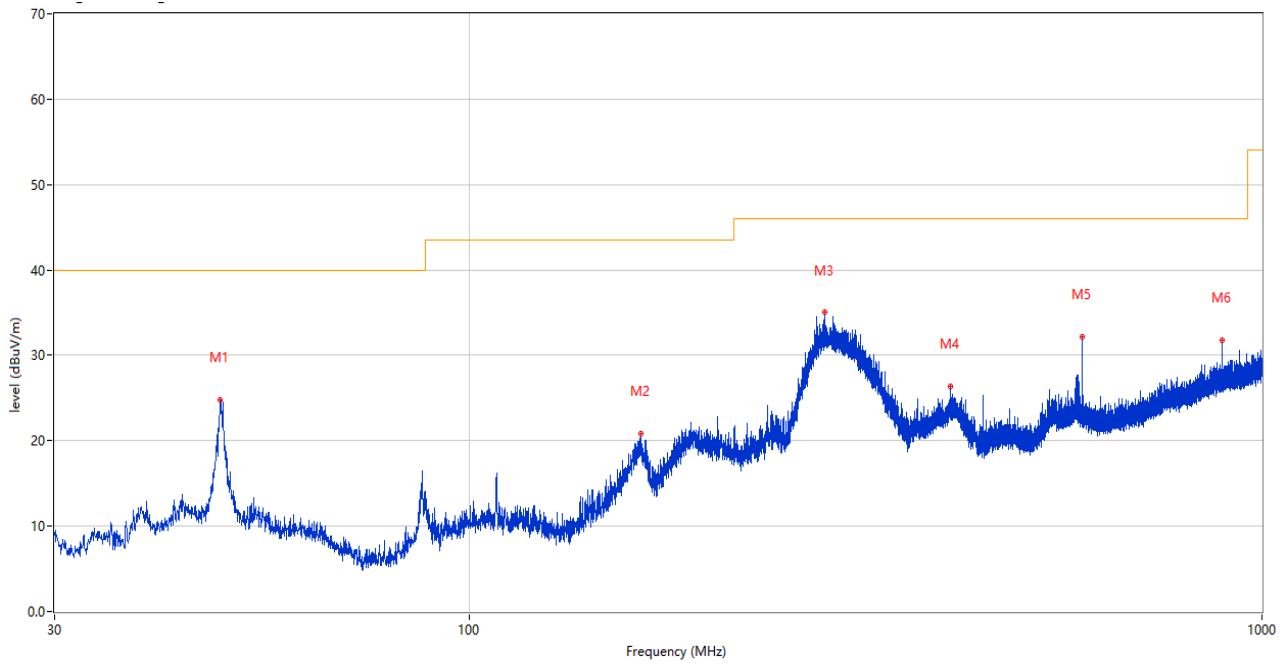


| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|------------|---------|
| 1   | 1662.000        | 39.08            | -16.34      | 74.0           | -34.92          | Peak     | 239.00         | 100         | Horizontal | Pass    |
| 1** | 1662.000        | 29.15            | -16.34      | 54.0           | -24.85          | AV       | 239.00         | 100         | Horizontal | Pass    |
| 2   | 3797.000        | 48.95            | -3.21       | 74.0           | -25.05          | Peak     | 129.00         | 100         | Horizontal | Pass    |
| 2** | 3797.000        | 38.94            | -3.21       | 54.0           | -15.06          | AV       | 129.00         | 100         | Horizontal | Pass    |
| 3   | 7402.250        | 56.07            | 2.53        | 74.0           | -17.93          | Peak     | 105.00         | 100         | Horizontal | Pass    |
| 3** | 7402.250        | 46.08            | 2.53        | 54.0           | -7.92           | AV       | 105.00         | 100         | Horizontal | Pass    |
| 4   | 9310.500        | 54.20            | 2.19        | 74.0           | -19.80          | Peak     | 187.00         | 100         | Horizontal | Pass    |
| 4** | 9310.500        | 44.34            | 2.19        | 54.0           | -9.66           | AV       | 187.00         | 100         | Horizontal | Pass    |
| 5   | 11989.500       | 54.88            | 2.63        | 74.0           | -19.12          | Peak     | 343.00         | 100         | Horizontal | Pass    |
| 5** | 11989.500       | 46.23            | 2.63        | 54.0           | -7.77           | AV       | 343.00         | 100         | Horizontal | Pass    |
| 6   | 13822.000       | 56.43            | 5.53        | 74.0           | -17.57          | Peak     | 48.00          | 100         | Horizontal | Pass    |
| 6** | 13822.000       | 46.64            | 5.53        | 54.0           | -7.36           | AV       | 48.00          | 100         | Horizontal | Pass    |

## Test Data and Plots

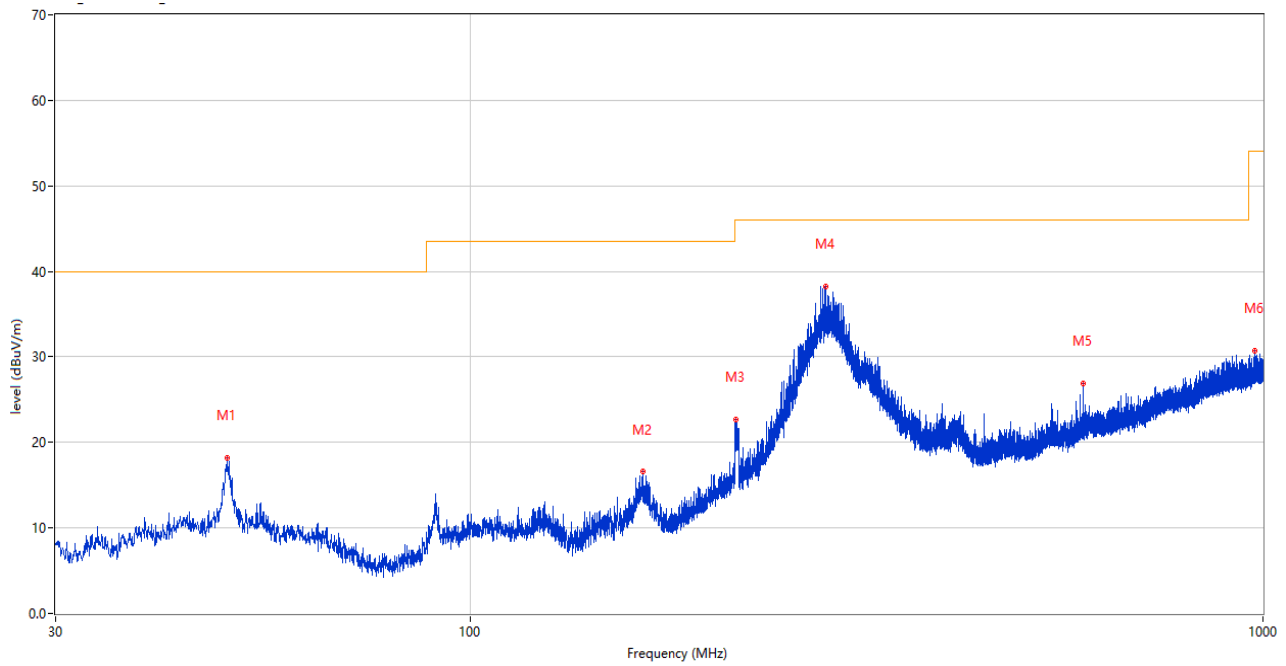
### The USB Test Mode

#### A.1.5 Test Antenna Vertical, 30 MHz – 1 GHz



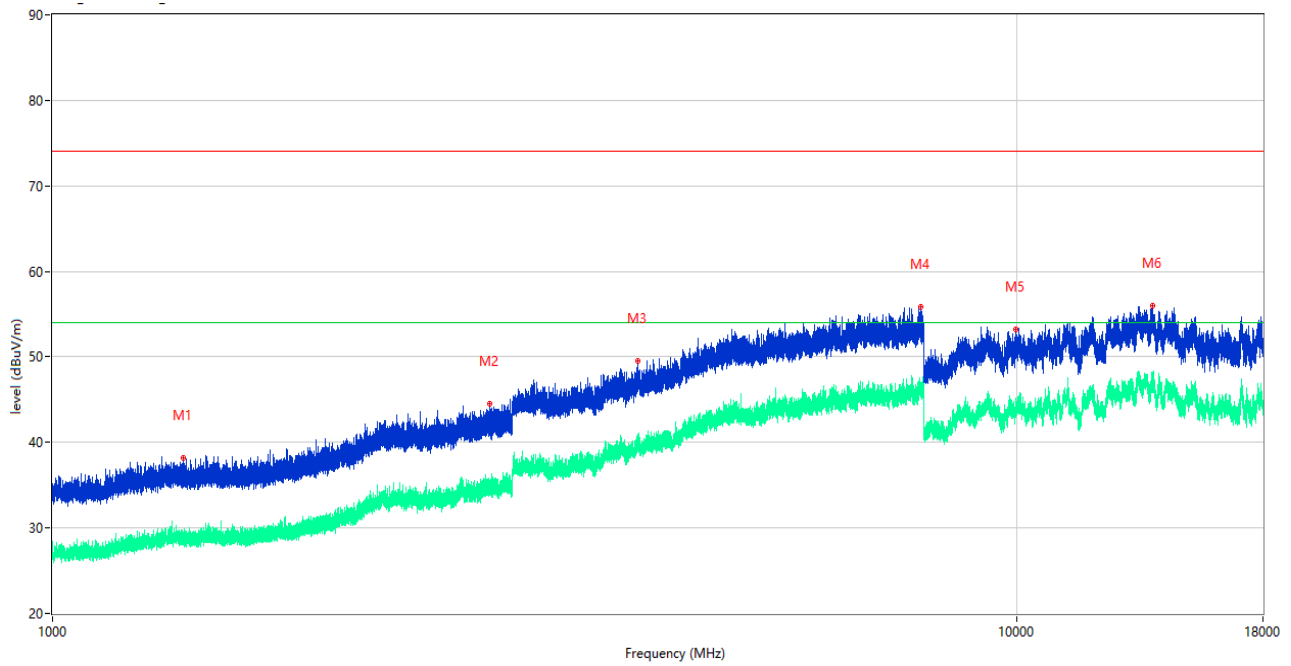
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|----------|---------|
| 1   | 48.478          | 24.80            | -25.35      | 40.0           | -15.20          | Peak     | 76.00          | 100         | Vertical | Pass    |
| 2   | 164.636         | 20.79            | -29.33      | 43.5           | -22.71          | Peak     | 174.00         | 100         | Vertical | Pass    |
| 3   | 280.502         | 35.01            | -24.10      | 46.0           | -10.99          | Peak     | 360.00         | 200         | Vertical | Pass    |
| 4   | 404.566         | 26.35            | -20.72      | 46.0           | -19.65          | Peak     | 151.00         | 100         | Vertical | Pass    |
| 5   | 594.006         | 32.21            | -16.07      | 46.0           | -13.79          | Peak     | 312.00         | 100         | Vertical | Pass    |
| 6   | 891.020         | 31.82            | -10.11      | 46.0           | -14.18          | Peak     | 128.00         | 100         | Vertical | Pass    |

### A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



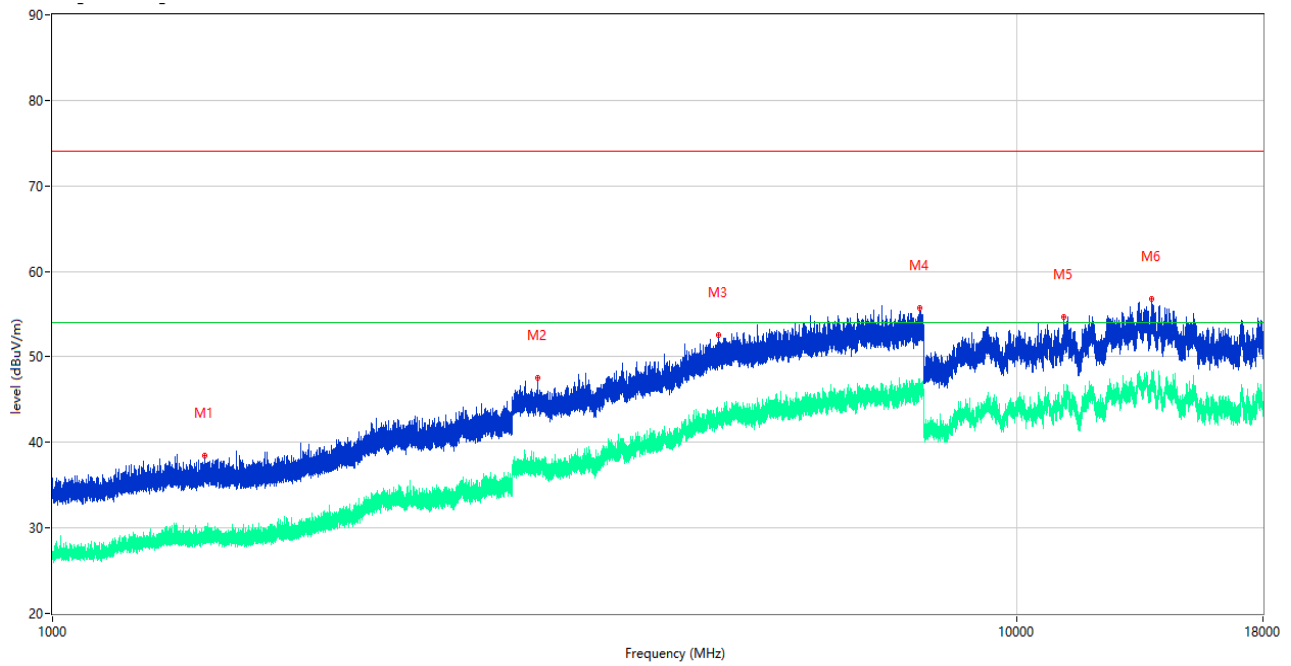
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|------------|---------|
| 1   | 49.400          | 18.20            | -25.51      | 40.0           | -21.80          | Peak     | 361.00         | 200         | Horizontal | Pass    |
| 2   | 165.315         | 16.58            | -29.32      | 43.5           | -26.92          | Peak     | 125.00         | 200         | Horizontal | Pass    |
| 3   | 216.580         | 22.64            | -26.34      | 46.0           | -23.36          | Peak     | 240.00         | 100         | Horizontal | Pass    |
| 4   | 280.987         | 38.19            | -24.12      | 46.0           | -7.81           | Peak     | 89.00          | 100         | Horizontal | Pass    |
| 5   | 593.958         | 26.86            | -16.07      | 46.0           | -19.14          | Peak     | 132.00         | 200         | Horizontal | Pass    |
| 6   | 975.119         | 30.74            | -8.69       | 54.0           | -23.26          | Peak     | 115.00         | 100         | Horizontal | Pass    |

### A.1.7 Test Antenna Vertical, 1 GHz – 18 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|----------|---------|
| 1   | 1367.800        | 38.19            | -16.82      | 74.0           | -35.81          | Peak     | 139.00         | 100         | Vertical | Pass    |
| 1** | 1367.800        | 28.49            | -16.82      | 54.0           | -25.51          | AV       | 139.00         | 100         | Vertical | Pass    |
| 2   | 2840.800        | 44.47            | -9.42       | 74.0           | -29.53          | Peak     | 323.00         | 100         | Vertical | Pass    |
| 2** | 2840.800        | 35.20            | -9.42       | 54.0           | -18.80          | AV       | 323.00         | 100         | Vertical | Pass    |
| 3   | 4050.500        | 49.48            | -1.89       | 74.0           | -24.52          | Peak     | 251.00         | 100         | Vertical | Pass    |
| 3** | 4050.500        | 39.61            | -1.89       | 54.0           | -14.39          | AV       | 251.00         | 100         | Vertical | Pass    |
| 4   | 7948.000        | 55.92            | 3.16        | 74.0           | -18.08          | Peak     | 45.00          | 100         | Vertical | Pass    |
| 4** | 7948.000        | 46.55            | 3.16        | 54.0           | -7.45           | AV       | 45.00          | 100         | Vertical | Pass    |
| 5   | 9971.500        | 53.28            | 1.03        | 74.0           | -20.72          | Peak     | 294.00         | 100         | Vertical | Pass    |
| 5** | 9971.500        | 44.18            | 1.03        | 54.0           | -9.82           | AV       | 294.00         | 100         | Vertical | Pass    |
| 6   | 13827.000       | 55.98            | 5.47        | 74.0           | -18.02          | Peak     | 294.00         | 100         | Vertical | Pass    |
| 6** | 13827.000       | 46.78            | 5.47        | 54.0           | -7.22           | AV       | 294.00         | 100         | Vertical | Pass    |

### A.1.8 Test Antenna Horizontal, 1 GHz – 18 GHz



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|----------------|-------------|------------|---------|
| 1   | 1439.900        | 38.45            | -16.65      | 74.0           | -35.55          | Peak     | 186.00         | 100         | Horizontal | Pass    |
| 1** | 1439.900        | 28.94            | -16.65      | 54.0           | -25.06          | AV       | 186.00         | 100         | Horizontal | Pass    |
| 2   | 3188.500        | 47.55            | -5.30       | 74.0           | -26.45          | Peak     | 126.00         | 100         | Horizontal | Pass    |
| 2** | 3188.500        | 37.23            | -5.30       | 54.0           | -16.77          | AV       | 126.00         | 100         | Horizontal | Pass    |
| 3   | 4899.750        | 52.52            | 0.25        | 74.0           | -21.48          | Peak     | 340.00         | 100         | Horizontal | Pass    |
| 3** | 4899.750        | 43.47            | 0.25        | 54.0           | -10.53          | AV       | 340.00         | 100         | Horizontal | Pass    |
| 4   | 7932.500        | 55.73            | 3.18        | 74.0           | -18.27          | Peak     | 209.00         | 100         | Horizontal | Pass    |
| 4** | 7932.500        | 46.33            | 3.18        | 54.0           | -7.67           | AV       | 209.00         | 100         | Horizontal | Pass    |
| 5   | 11178.000       | 54.68            | 1.60        | 74.0           | -19.32          | Peak     | 297.00         | 100         | Horizontal | Pass    |
| 5** | 11178.000       | 44.75            | 1.60        | 54.0           | -9.25           | AV       | 297.00         | 100         | Horizontal | Pass    |
| 6   | 13807.500       | 56.78            | 5.72        | 74.0           | -17.22          | Peak     | 315.00         | 100         | Horizontal | Pass    |
| 6** | 13807.500       | 47.15            | 5.72        | 54.0           | -6.85           | AV       | 315.00         | 100         | Horizontal | Pass    |

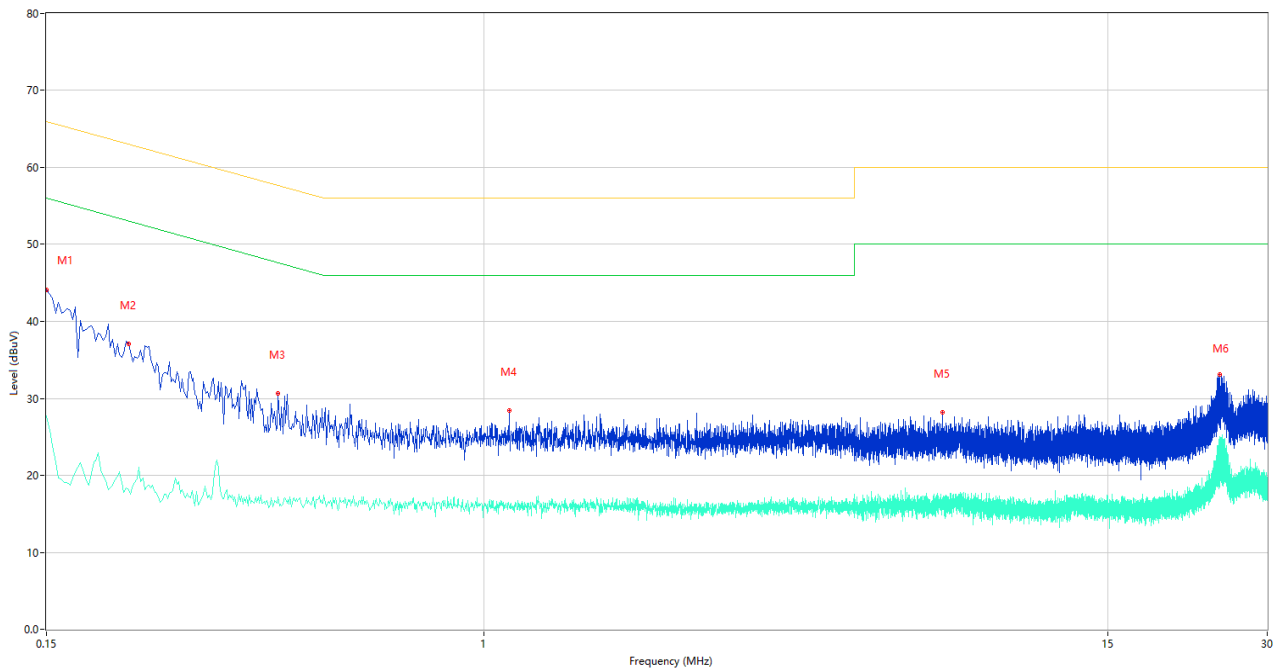
## A.2 Conducted Emission

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz ) shown here.

### Test Data and Plots

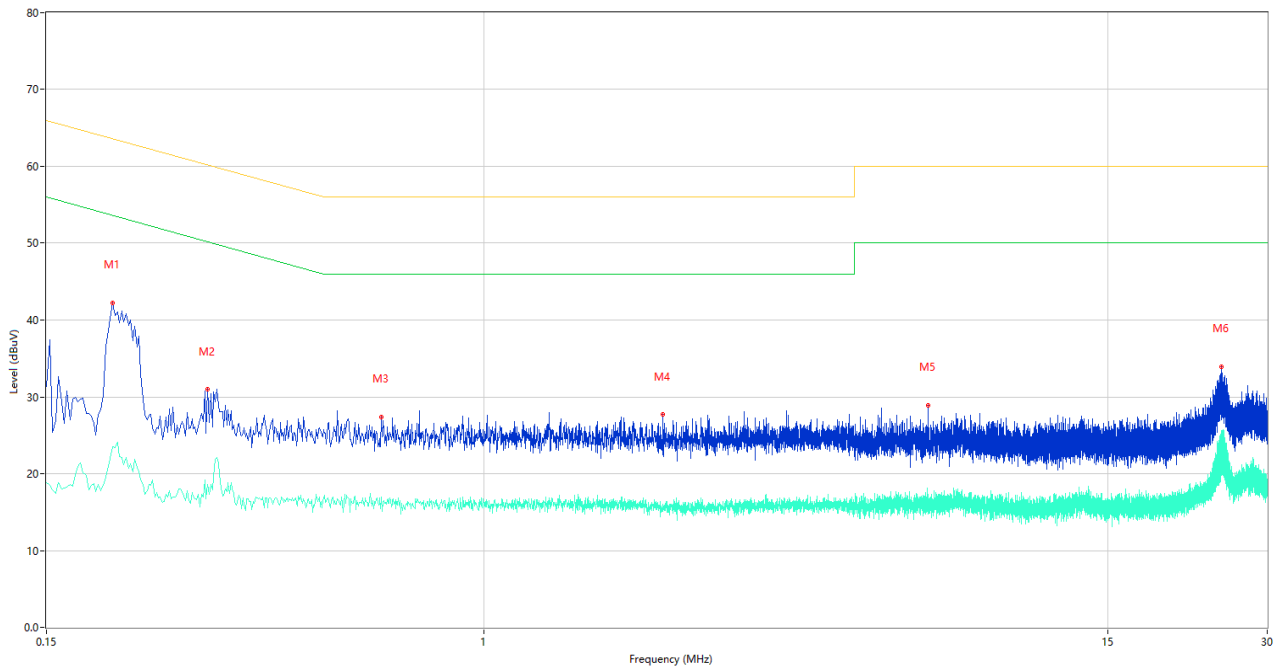
#### The Camera Test Mode

##### A.2.1 L Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Over Limit (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-----------------|----------|------|---------|
| 1   | 0.150           | 44.11          | 10.19       | 66.00        | -21.89          | Peak     | L    | Pass    |
| 1** | 0.150           | 27.78          | 10.19       | 56.00        | -28.22          | AV       | L    | Pass    |
| 2   | 0.214           | 37.05          | 10.09       | 63.05        | -26.00          | Peak     | L    | Pass    |
| 2** | 0.214           | 18.16          | 10.09       | 53.05        | -34.89          | AV       | L    | Pass    |
| 3   | 0.410           | 30.66          | 10.09       | 57.65        | -26.99          | Peak     | L    | Pass    |
| 3** | 0.410           | 17.18          | 10.09       | 47.65        | -30.47          | AV       | L    | Pass    |
| 4   | 1.118           | 28.40          | 10.01       | 56.00        | -27.60          | Peak     | L    | Pass    |
| 4** | 1.118           | 15.76          | 10.01       | 46.00        | -30.24          | AV       | L    | Pass    |
| 5   | 7.340           | 28.17          | 9.92        | 60.00        | -31.83          | Peak     | L    | Pass    |
| 5** | 7.340           | 15.95          | 9.92        | 50.00        | -34.05          | AV       | L    | Pass    |
| 6   | 24.436          | 33.09          | 10.16       | 60.00        | -26.91          | Peak     | L    | Pass    |
| 6** | 24.436          | 24.95          | 10.16       | 50.00        | -25.05          | AV       | L    | Pass    |

## A.2.2 N Phase

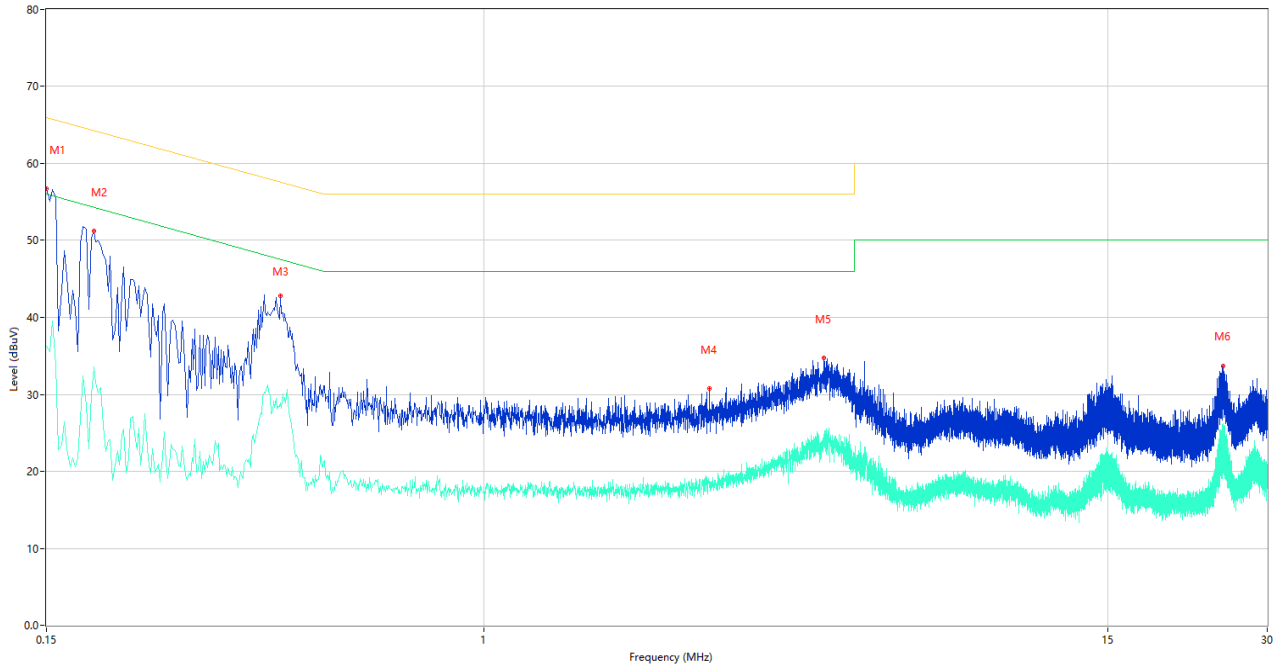


| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Over Limit (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-----------------|----------|------|---------|
| 1   | 0.200           | 42.20          | 10.10       | 63.61        | -21.41          | Peak     | N    | Pass    |
| 1** | 0.200           | 23.50          | 10.10       | 53.61        | -30.11          | AV       | N    | Pass    |
| 2   | 0.302           | 30.96          | 10.07       | 60.19        | -29.23          | Peak     | N    | Pass    |
| 2** | 0.302           | 18.63          | 10.07       | 50.19        | -31.56          | AV       | N    | Pass    |
| 3   | 0.642           | 27.41          | 10.09       | 56.00        | -28.59          | Peak     | N    | Pass    |
| 3** | 0.642           | 16.93          | 10.09       | 46.00        | -29.07          | AV       | N    | Pass    |
| 4   | 2.178           | 27.70          | 9.90        | 56.00        | -28.30          | Peak     | N    | Pass    |
| 4** | 2.178           | 16.00          | 9.90        | 46.00        | -30.00          | AV       | N    | Pass    |
| 5   | 6.886           | 28.93          | 9.86        | 60.00        | -31.07          | Peak     | N    | Pass    |
| 5** | 6.886           | 17.32          | 9.86        | 50.00        | -32.68          | AV       | N    | Pass    |
| 6   | 24.602          | 33.95          | 10.16       | 60.00        | -26.05          | Peak     | N    | Pass    |
| 6** | 24.602          | 25.64          | 10.16       | 50.00        | -24.36          | AV       | N    | Pass    |

## Test Data and Plots

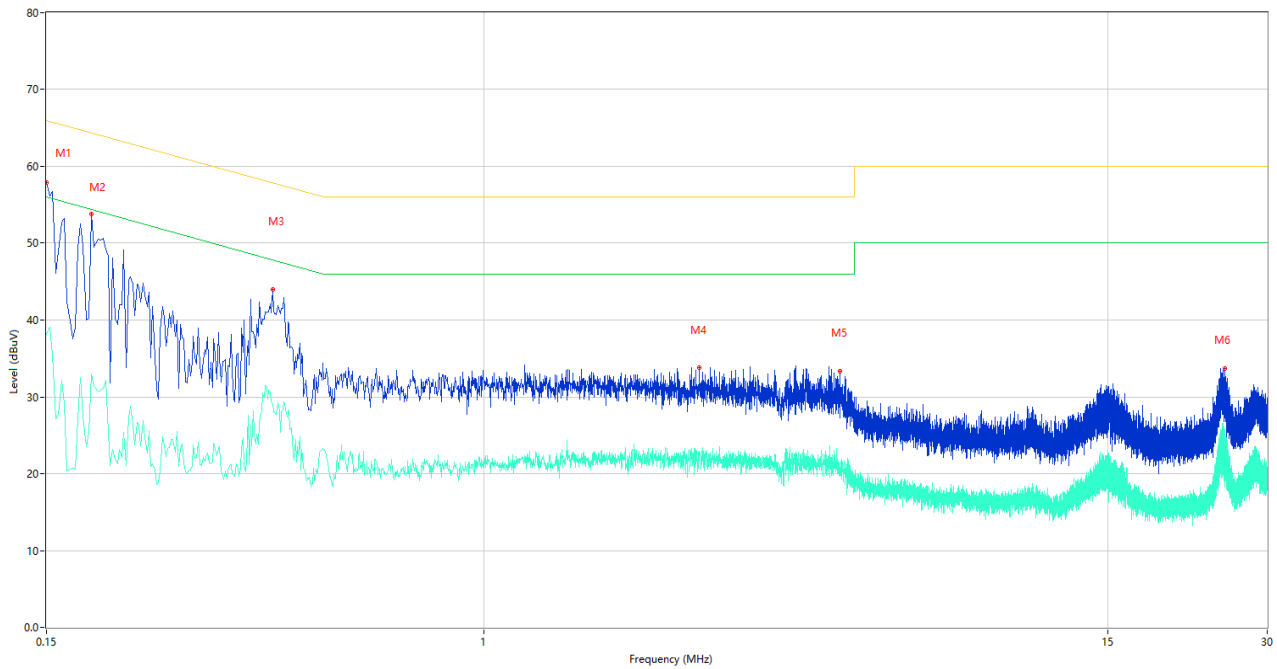
### The USB Test Mode

#### A.2.3 L Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Over Limit (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-----------------|----------|------|---------|
| 1   | 0.150           | 56.74          | 10.19       | 66.00        | -9.26           | Peak     | L    | Pass    |
| 1** | 0.150           | 36.28          | 10.19       | 56.00        | -19.72          | AV       | L    | Pass    |
| 2   | 0.184           | 51.18          | 10.13       | 64.30        | -13.12          | Peak     | L    | Pass    |
| 2** | 0.184           | 33.61          | 10.13       | 54.30        | -20.69          | AV       | L    | Pass    |
| 3   | 0.414           | 42.79          | 10.09       | 57.57        | -14.78          | Peak     | L    | Pass    |
| 3** | 0.414           | 28.86          | 10.09       | 47.57        | -18.71          | AV       | L    | Pass    |
| 4   | 2.666           | 30.79          | 10.00       | 56.00        | -25.21          | Peak     | L    | Pass    |
| 4** | 2.666           | 18.40          | 10.00       | 46.00        | -27.60          | AV       | L    | Pass    |
| 5   | 4.382           | 34.78          | 10.03       | 56.00        | -21.22          | Peak     | L    | Pass    |
| 5** | 4.382           | 24.45          | 10.03       | 46.00        | -21.55          | AV       | L    | Pass    |
| 6   | 24.734          | 33.71          | 10.16       | 60.00        | -26.29          | Peak     | L    | Pass    |
| 6** | 24.734          | 26.23          | 10.16       | 50.00        | -23.77          | AV       | L    | Pass    |

## A.2.4 N Phase



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Over Limit (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-----------------|----------|------|---------|
| 1   | 0.150           | 57.87          | 10.19       | 66.00        | -8.13           | Peak     | N    | Pass    |
| 1** | 0.150           | 38.12          | 10.19       | 56.00        | -17.88          | AV       | N    | Pass    |
| 2   | 0.182           | 53.85          | 10.13       | 64.39        | -10.54          | Peak     | N    | Pass    |
| 2** | 0.182           | 32.94          | 10.13       | 54.39        | -21.45          | AV       | N    | Pass    |
| 3   | 0.400           | 44.03          | 10.09       | 57.85        | -13.82          | Peak     | N    | Pass    |
| 3** | 0.400           | 29.02          | 10.09       | 47.85        | -18.83          | AV       | N    | Pass    |
| 4   | 2.550           | 33.78          | 9.98        | 56.00        | -22.22          | Peak     | N    | Pass    |
| 4** | 2.550           | 22.06          | 9.98        | 46.00        | -23.94          | AV       | N    | Pass    |
| 5   | 4.688           | 33.36          | 9.98        | 56.00        | -22.64          | Peak     | N    | Pass    |
| 5** | 4.688           | 19.69          | 9.98        | 46.00        | -26.31          | AV       | N    | Pass    |
| 6   | 24.938          | 33.71          | 10.16       | 60.00        | -26.29          | Peak     | N    | Pass    |
| 6** | 24.938          | 24.95          | 10.16       | 50.00        | -25.05          | AV       | N    | Pass    |

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-EC21C0184-AE-1.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-EC21C0184-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-EC21C0184-AI.PDF”.

--END OF REPORT--