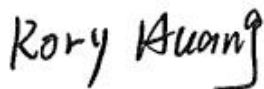


TEST REPORT

| | |
|----------------------|---|
| Report No. | CISRR25040100602 |
| Project No. | CISR250401006 |
| FCC ID | 2BON2-X-A5 |
| Applicant | Shenzhen Hechuangweishi Technology Co., LTD. |
| Address | No.203 Building A, No.54-6 Guanlan Road, Xinhe Community Fucheng Street, Longhua District, Shenzhen City, China |
| Manufacturer | Shenzhen Hechuangweishi Technology Co., LTD. |
| Address | No.203 Building A, No.54-6 Guanlan Road, Xinhe Community Fucheng Street, Longhua District, Shenzhen City, China |
| Product Name | Smart Camera; Security Camera |
| Trade Mark | N/A |
| Model/Type reference | X-A5 |
| Listed Model(s) | X-Q11, X-A7 |
| Standard | FCC Part 15 Subpart C |
| Test date | April 1, 2025 to April 24, 2025 |
| Issue date | April 24, 2025 |
| Test result | Complied |



Prepared by: Rory Huang



Approved by: Genry Long

The test results relate only to the tested samples.

The test report should not be reproduced except in full without the written approval of Shenzhen Bangce Testing Technology Co., Ltd.

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1. REPORT VERSION

| Version No. | Issue date | Description |
|-------------|----------------|-------------|
| 00 | April 24, 2025 | Original |
| | | |
| | | |

2. SUMMARY OF TEST RESULT

| Report clause | Test Item | Standard Requirement | Result |
|---------------|----------------------------|----------------------|--------|
| 5.2 | AC Conducted Emission | 15.207 | PASS |
| 5.4 | 20 dB Bandwidth | 15.215 | PASS |
| 5.13 | Radiated Spurious Emission | 15.209 | PASS |

Note:

- The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Product Description

| | |
|----------------------------------|--|
| Main unit information: | |
| Product Name: | Smart Camera; Security Camera |
| Trade Mark: | N/A |
| Model No.: | X-A5 |
| Listed Model(s): | X-Q11, X-A7 |
| Model difference: | All models are same as the samples except model name and colour, they have the same structure/circuit. |
| Power supply: | WPT Output: 5W/7.5W/10W/15W |
| Hardware version: | 2.3.02 |
| Software version: | 4.0.0142 |
| Accessory unit (AU) information: | |
| Battery: | DC 3.7V |

3.2. Radio Specification Description

| | |
|----------------------|-------------------|
| Technology: | Wireless Charging |
| Modulation: | Continuous Wave |
| Operation frequency: | 110.1kHz-205kHz |
| Antenna type: | Coil |
| Antenna gain: | 0dBi |

3.3. Modification of EUT

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

3.4. Testing Site

| | |
|-------------------------|--|
| Laboratory Name | Shenzhen Bangce Testing Technology Co., Ltd. |
| Laboratory Location | 101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China |
| FCC registration number | 736346 |

3.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS \text{ (dBuV/m)} = RA \text{ (dBuV)} + AF \text{ (dB/m)} + CL \text{ (dB)} - AG \text{ (dB)}$$

| | |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

3.6. DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$CD \text{ (dBuV)} = RA \text{ (dBuV)} + PL \text{ (dB)} + CL \text{ (dB)}$$

| | |
|----------------------------------|--|
| Where CD = Conducted Disturbance | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | PL = 10 dB Pulse Limiter Factor |

4. TEST CONFIGURATION

4.1. Test mode

| Test Mode: | |
|--|---|
| Mode 1 | AC/DC Adapter + EUT(5W) + phone(Battery Status: <1%) |
| Mode 2 | AC/DC Adapter + EUT(5W) + phone(Battery Status: <50%) |
| Mode 3 | AC/DC Adapter + EUT(5W) + phone(Battery Status: <99%) |
| Mode 4 | AC/DC Adapter + EUT(7.5W) + phone(Battery Status: <1%) |
| Mode 5 | AC/DC Adapter + EUT(7.5W) + phone(Battery Status: <50%) |
| Mode 6 | AC/DC Adapter + EUT(7.5W) + phone(Battery Status: <99%) |
| Mode 7 | AC/DC Adapter + EUT(10W) + phone(Battery Status: <1%) |
| Mode 8 | AC/DC Adapter + EUT(10W) + phone(Battery Status: <50%) |
| Mode 9 | AC/DC Adapter + EUT(10W) + phone(Battery Status: <99%) |
| Mode 10 | AC/DC Adapter + EUT(15W) + phone(Battery Status: <1%) |
| Mode 11 | AC/DC Adapter + EUT(15W) + phone(Battery Status: <50%) |
| Mode 12 | AC/DC Adapter + EUT(15W) + phone(Battery Status: <99%) |
| Remark: – All test modes were pre-tested, but we only recorded the worst case in this report. | |

4.2. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

| Item | Equipment name | Trade Name | Model No. |
|------|----------------|------------------------------------|--------------|
| 1 | Adapter | Guangdong Sangu Technology Co. Ltd | SG-0501000AU |
| 2 | phone | Huawei | Mate 30 |

4.3. Test sample information

| Type | Sample no. |
|-----------------|------------------|
| Engineer sample | CISR250401006-1# |
| Normal sample | CISR250401006-2# |

4.4. Testing environmental condition

| Type | Requirement | Actual |
|--------------------|--------------|----------|
| Temperature: | 15~35°C | 25°C |
| Relative Humidity: | 25~75% | 50% |
| Air Pressure: | 860~1060mbar | 1000mbar |

4.5. Statement of the measurement uncertainty

| No. | Test Items | Measurement Uncertainty |
|-----|----------------------------|--|
| 1 | AC Conducted Emission | 1.63dB |
| 2 | 99% Occupied Bandwidth | 0.002% |
| 3 | Radiated Spurious Emission | 3.76dB for 30MHz-1GHz 3.80dB for above 1GHz |

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

4.6. Equipment Used during the Test

| Equipment | Manufacture | Model No. | Serial No. | Last cal. | Cal Interval |
|--|---------------|-------------|-----------------|------------|--------------|
| 9*6*6 anechoic chamber | SKET | 9.3*6.3*6 | N/A | 2024.09.01 | 3Year |
| Spectrum analyzer | Agilent | N9020A | MY50530263 | 2025.01.08 | 1Year |
| Receiver | ROHDE&SCHWARZ | ESCI | 100853 | 2025.01.08 | 1Year |
| Spectrum analyzer | R&S | FSV-40N | / | 2025.01.08 | 1Year |
| Bilog Antenna | Schwarzbeck | VULB 9163 | 1463 | 2025.01.08 | 2Year |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 2487 | 2025.01.08 | 2Year |
| Active Loop Antenna | SCHWARZBECK | FMZB 1519B | / | 2025.01.08 | 2Year |
| RF Cable | Tonscend | Cable 1 | / | 2025.01.08 | 1Year |
| RF Cable | Tonscend | Cable 2 | / | 2025.01.08 | 1Year |
| RF Cable | SKET | Cable 3 | / | 2025.01.08 | 1Year |
| Pre-amplifier | Tonscend | TAP9K3G32 | AP21G806153 | 2025.01.08 | 1Year |
| Pre-amplifier | Tonscend | TAP01018050 | AP22E806229 | 2025.01.08 | 1Year |
| L.I.S.N.#1 | Schwarzbeck | NSLK8127 | / | 2025.01.08 | 1Year |
| L.I.S.N.#2 | ROHDE&SCHWARZ | ENV216 | / | 2025.01.08 | 1 Year |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 1130 | 2025.01.08 | 2 Year |
| Preamplifier | Tonscend | TAP18040048 | AP21C806126 | 2025.01.08 | 1 Year |
| Antenna tower | SKET | Bk-4AT-BS | AT2021040101-V1 | N/A | N/A |
| variable-frequency power source | Pinhong | PH1110 | / | 2025.01.08 | 1 Year |
| 6dB Attenuator | SKET | DC-6G | / | N/A | N/A |
| Artificial power network | Schwarzbeck | NSLK8127 | 8127-01096 | 2025.01.08 | 1 Year |
| EMI Test Receiver | Rohde&schwarz | ESCI7 | 100853 | 2025.01.08 | 1 Year |
| 8-wire Impedance Stabilization Network | Schwarzbeck | NTFM 8158 | 8158-00337 | 2025.01.08 | 1 Year |
| Antenna tower | SKET | Bk-4AT-BS | AT2021040101-V1 | N/A | N/A |

5. TEST CONDITIONS AND RESULTS

5.1. AC Conducted Emission

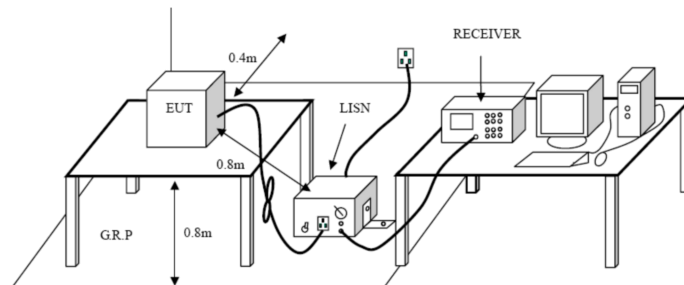
Limit:

FCC CFR Title 47 Part 15 Subpart C Section 15.207

| Frequency range (MHz) | Limit (dBuV) | |
|-----------------------|--------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

Test configuration:



Test procedure:

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

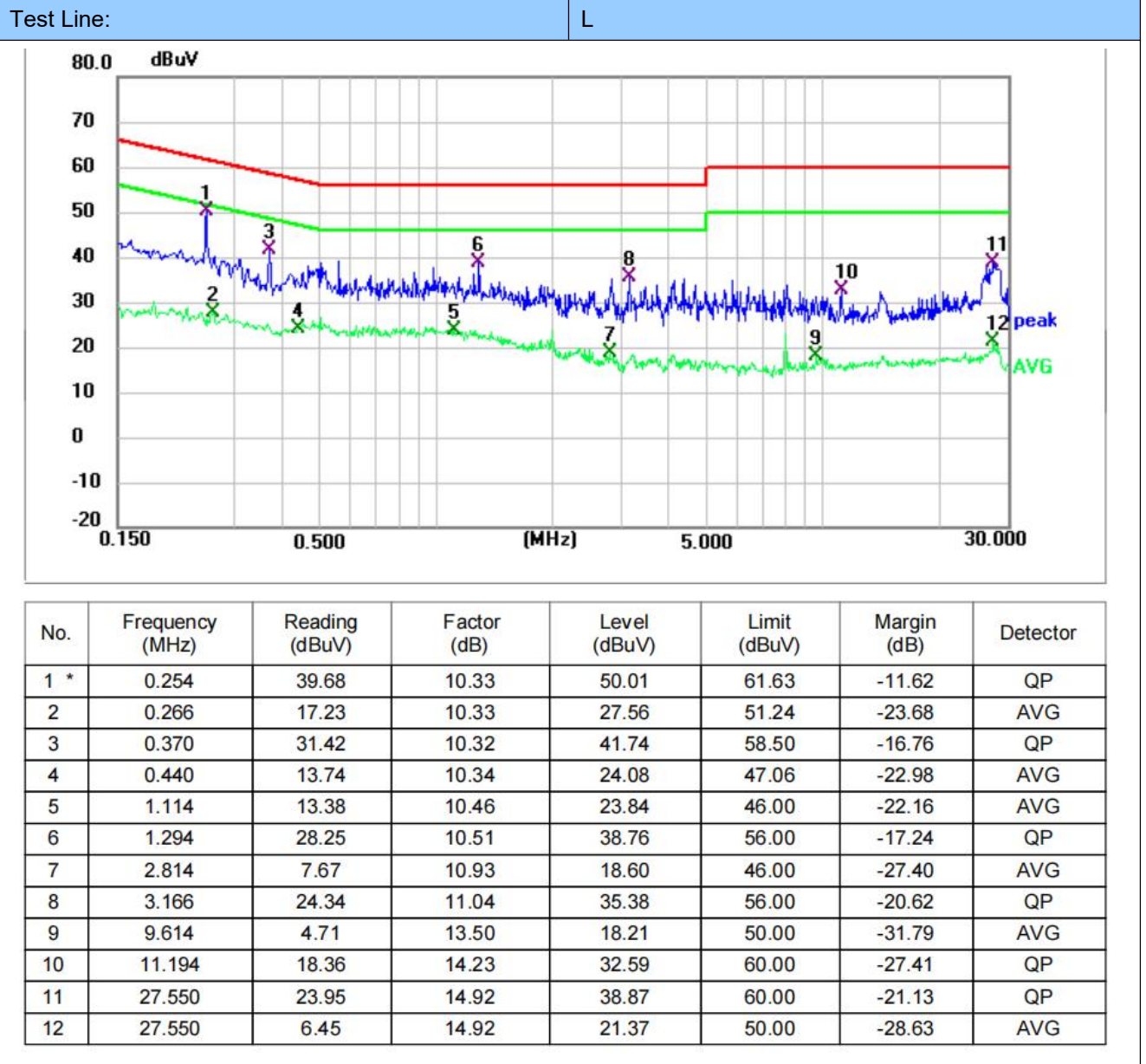
Test mode:

Refer to the clause 4.1

Result:

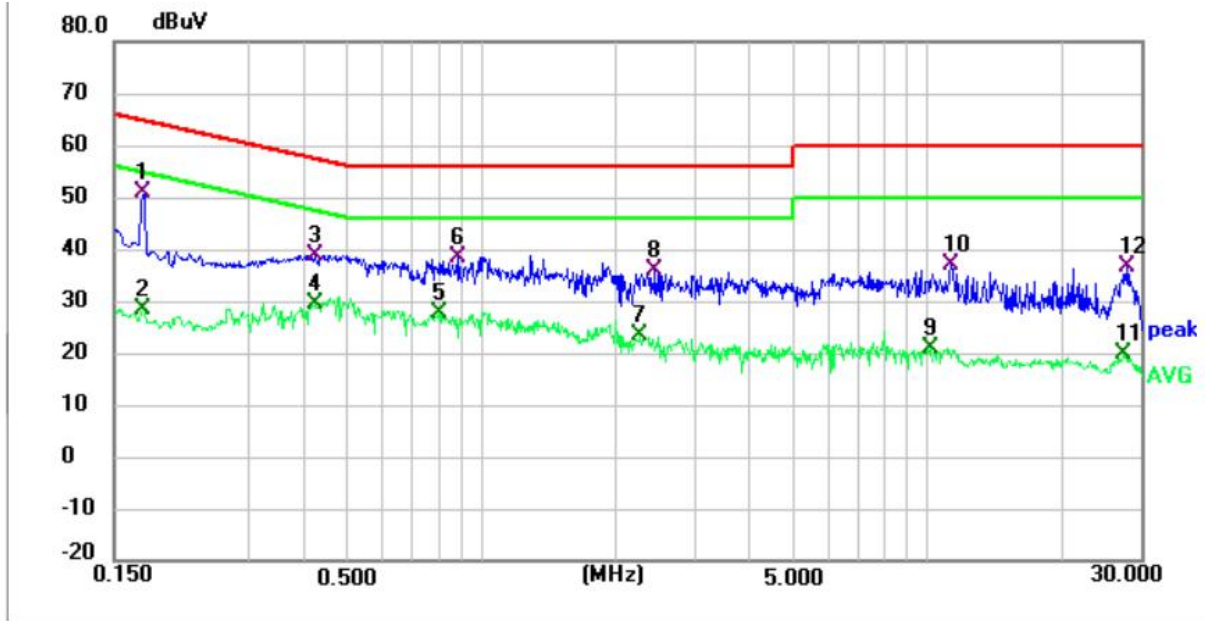
Passed

Have pre-scan all test Mode, found TM10 which it was worst case, so only show the worst case's data on this report.



Test Line:

N



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1 * | 0.174 | 40.41 | 10.32 | 50.73 | 64.77 | -14.04 | QP |
| 2 | 0.174 | 17.92 | 10.32 | 28.24 | 54.77 | -26.53 | AVG |
| 3 | 0.421 | 28.40 | 10.35 | 38.75 | 57.43 | -18.68 | QP |
| 4 | 0.421 | 19.16 | 10.35 | 29.51 | 47.43 | -17.92 | AVG |
| 5 | 0.806 | 17.23 | 10.41 | 27.64 | 46.00 | -18.36 | AVG |
| 6 | 0.882 | 27.86 | 10.41 | 38.27 | 56.00 | -17.73 | QP |
| 7 | 2.266 | 12.57 | 10.78 | 23.35 | 46.00 | -22.65 | AVG |
| 8 | 2.450 | 24.98 | 10.83 | 35.81 | 56.00 | -20.19 | QP |
| 9 | 10.134 | 7.38 | 13.66 | 21.04 | 50.00 | -28.96 | AVG |
| 10 | 11.266 | 22.65 | 14.14 | 36.79 | 60.00 | -23.21 | QP |
| 11 | 27.482 | 4.68 | 15.07 | 19.75 | 50.00 | -30.25 | AVG |
| 12 | 27.974 | 21.49 | 15.02 | 36.51 | 60.00 | -23.49 | QP |

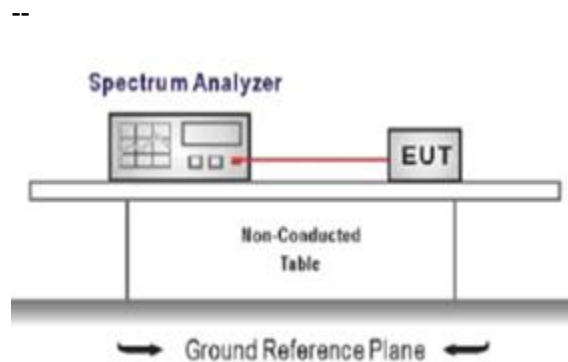
Note:

1. Factor = LISN Factor + Cable Factor
2. Level= Reading + Factor
3. Margin= Level – Limit

5.2. 20 dB Bandwidth

Limit:

Test configuration:



Test procedure:

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

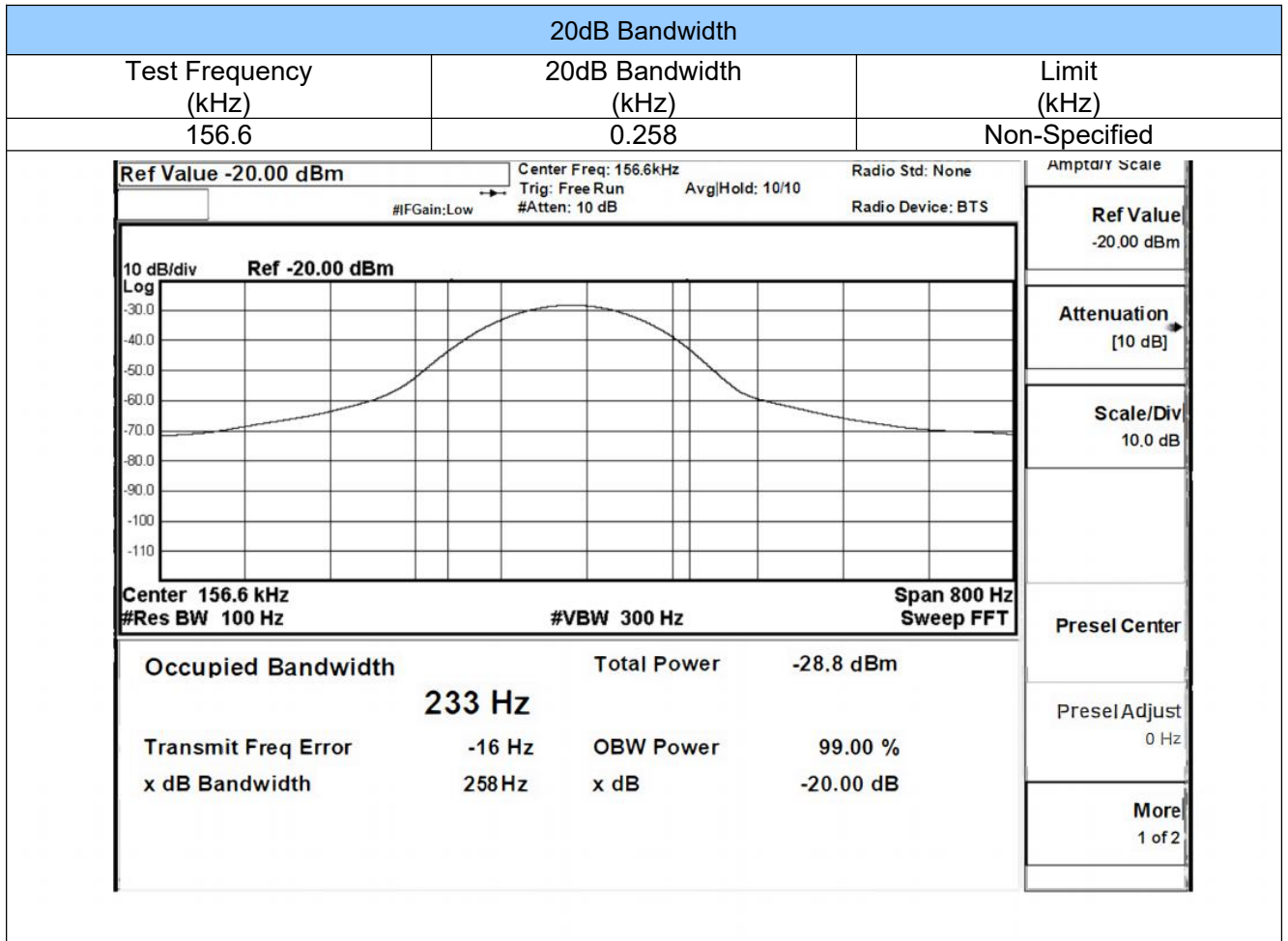
Test mode:

Refer to the clause 4.1

Result:

Passed

Test Result :



5.3. Radiated Spurious Emission

Limit:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

| Frequency | Limit (dBuV/m) | Value |
|----------------------|-------------------|------------|
| 0.009 MHz ~0.49 MHz | 2400/F(kHz) @300m | Quasi-peak |
| 0.49 MHz ~ 1.705 MHz | 24000/F(kHz) @30m | Quasi-peak |
| 1.705 MHz ~30 MHz | 30 @30m | Quasi-peak |

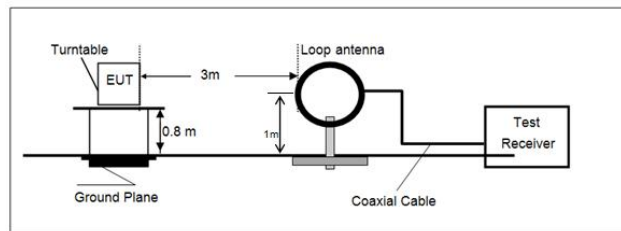
Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)

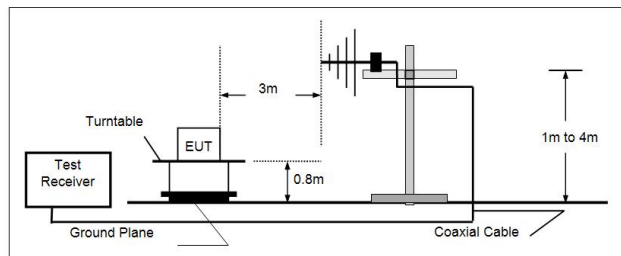
| Frequency | Limit (dBuV/m @3m) | Value |
|---------------|--------------------|------------|
| 30MHz~88MHz | 40.00 | Quasi-peak |
| 88MHz~216MHz | 43.50 | Quasi-peak |
| 216MHz~960MHz | 46.00 | Quasi-peak |
| 960MHz~1GHz | 54.00 | Quasi-peak |

Test configuration:

9kHz~30MHz



30 MHz ~ 1 GHz



Test procedure:

1. The EUT was setup and tested according to ANSI C63.10.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, 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 to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Test mode:

Refer to the clause 4.1

Result:**Passed**

Note:

- 1) $\text{Level} = \text{Reading} + \text{Factor/Transd}$; $\text{Factor/Transd} = \text{Antenna Factor} + \text{Cable Loss} - \text{Preamp Factor}$
- 2) $\text{Margin} = \text{Limit} - \text{Level}$
- 3) The other emission levels were very low against the limit.
- 4) This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.

For 9 kHz ~ 30 MHz

Have pre-scan all test Mode, found TM4 which it was worst case, so only show the worst case's data on this report.

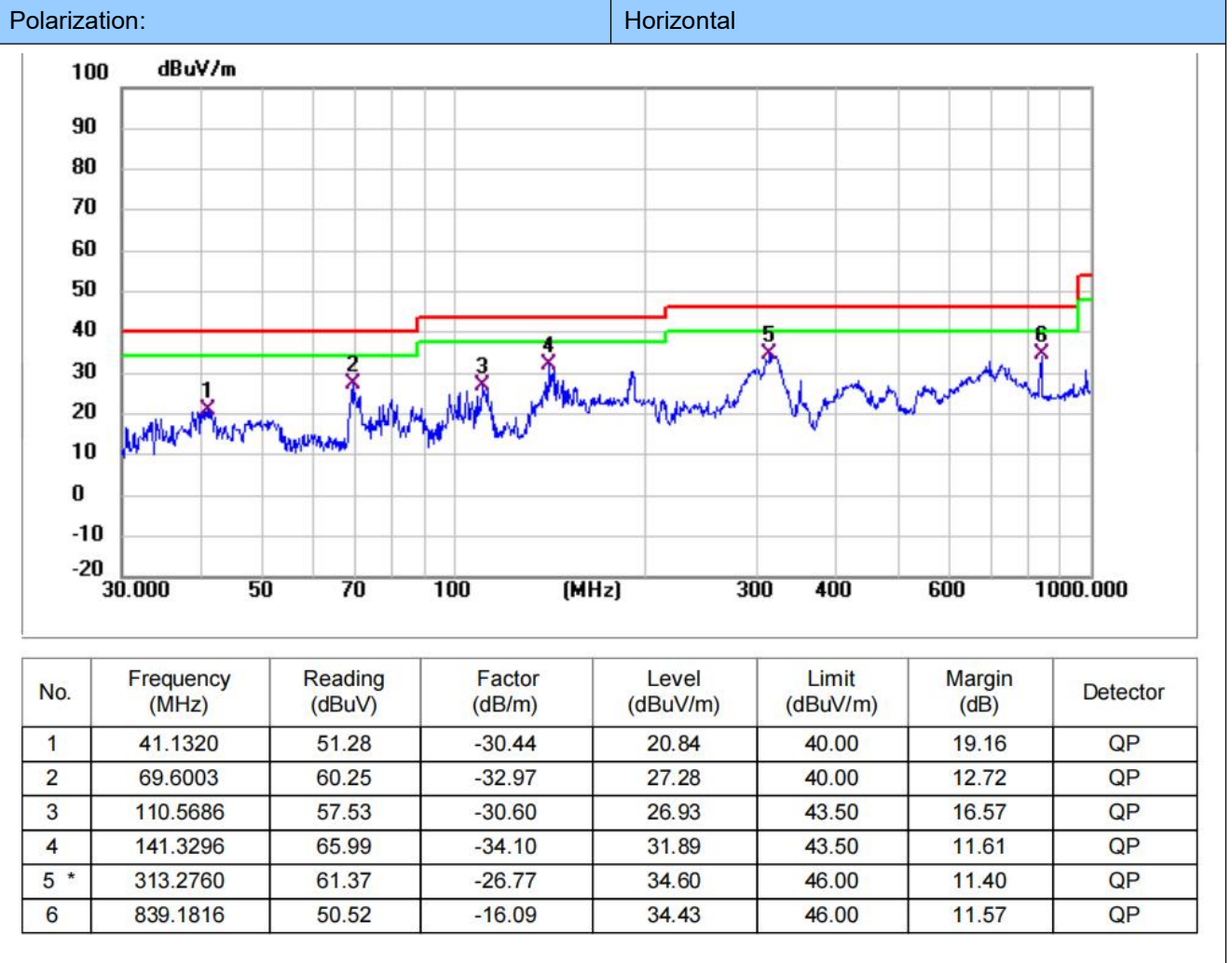
0°



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0375 | 69.94 | -21.99 | 47.95 | 116.12 | 68.17 | AVG |
| 2 | 0.1197 | 103.00 | -22.41 | 80.59 | 106.04 | 25.45 | AVG |
| 3 | 0.3578 | 85.87 | -22.17 | 63.70 | 96.53 | 32.83 | AVG |
| 4 * | 0.5964 | 75.63 | -21.91 | 53.72 | 72.09 | 18.37 | QP |
| 5 | 0.8386 | 68.91 | -21.53 | 47.38 | 69.13 | 21.75 | QP |
| 6 | 4.1451 | 56.43 | -21.58 | 34.85 | 69.54 | 34.69 | QP |

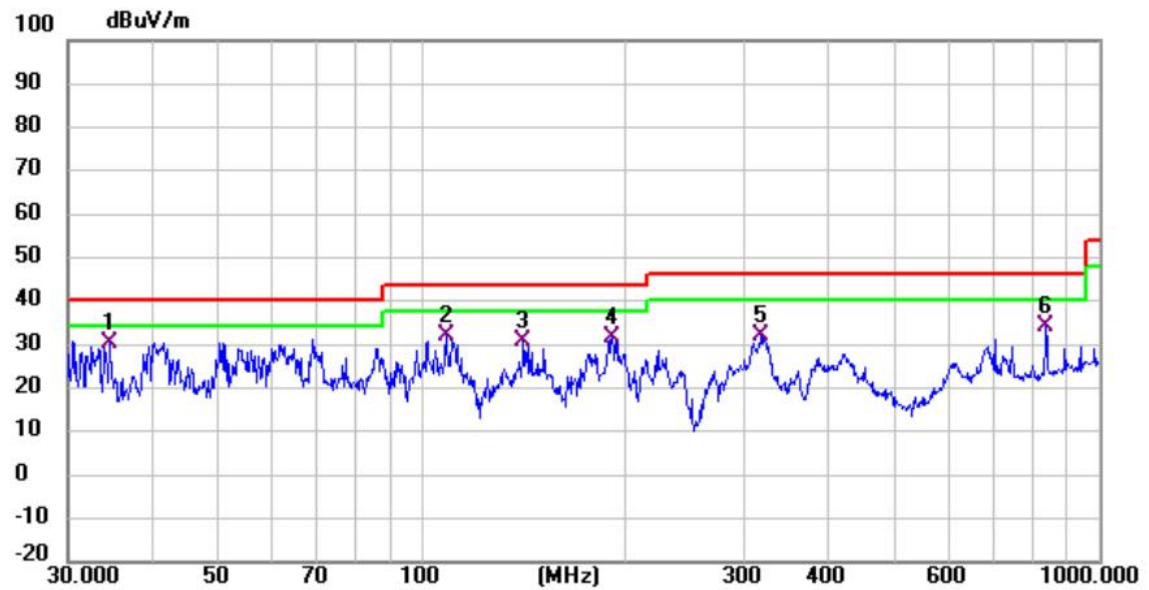
For 30 MHz ~ 1000 MHz

Have pre-scan all test Mode, found TM4 which it was worst case, so only show the worst case's data on this report.



Polarization:

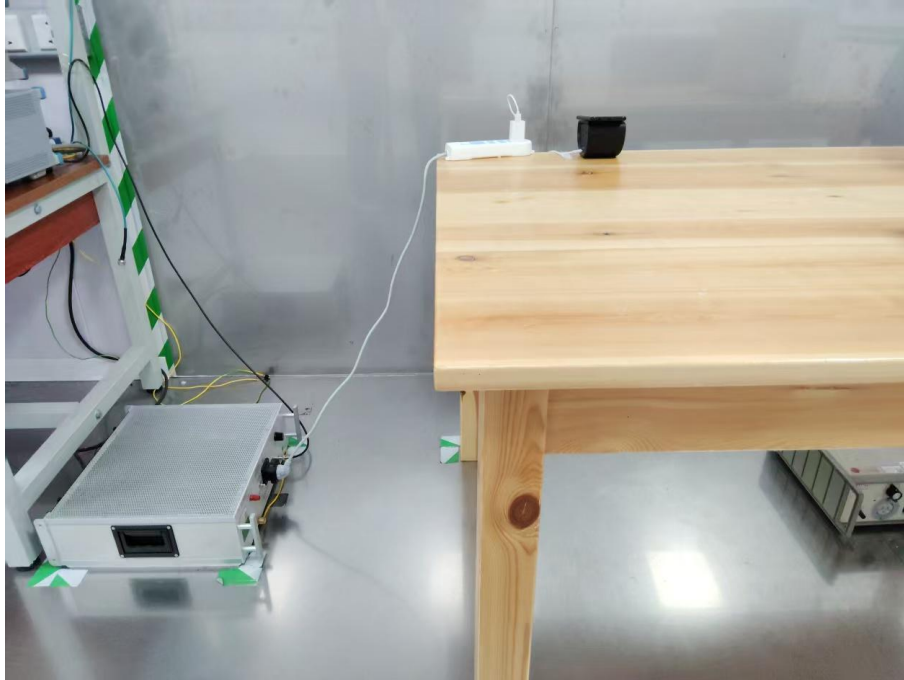
Vertical



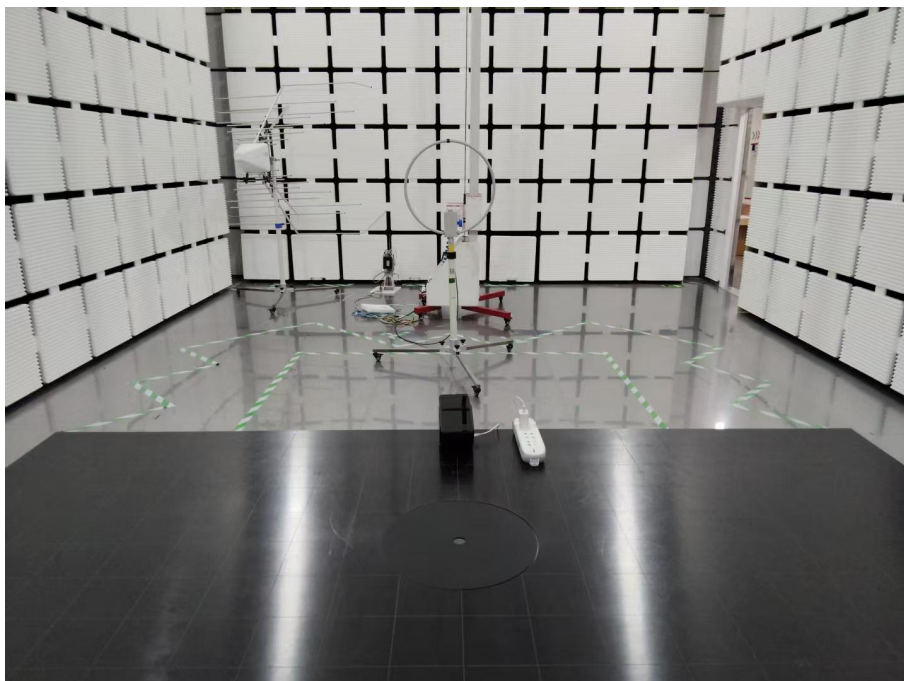
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 * | 34.6385 | 62.31 | -31.89 | 30.42 | 40.00 | 9.58 | QP |
| 2 | 108.6470 | 62.57 | -30.56 | 32.01 | 43.50 | 11.49 | QP |
| 3 | 141.3296 | 65.09 | -34.10 | 30.99 | 43.50 | 12.51 | QP |
| 4 | 191.0738 | 62.39 | -30.64 | 31.75 | 43.50 | 11.75 | QP |
| 5 | 317.7010 | 58.72 | -26.69 | 32.03 | 46.00 | 13.97 | QP |
| 6 | 836.2441 | 50.41 | -16.15 | 34.26 | 46.00 | 11.74 | QP |

6. TEST SETUP PHOTOS

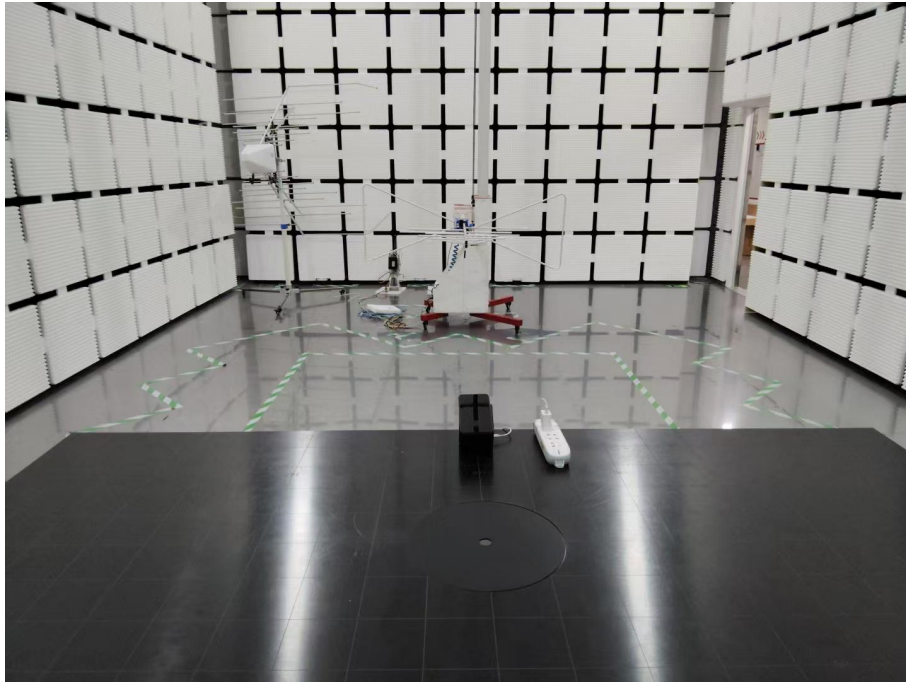
Conducted Emission at AC power line



Radiated Spurious Emission (below 30MHz)



Radiated Spurious Emission (below 1GHz)



7. EXTERNAL AND INTERNAL PHOTOS

7.1 External photos

Refer to the Report CISRR25040100601.

7.2 Internal photos

Refer to the Report CISRR25040100601.

-----End of the report-----