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Report Template Version: V03

Report Template Revision Date: Mar.1st, 2017

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# **Test Report**

**Report No.:** CQASZ20180600056E

Applicant: Shenzhen Qihua Star Optoelectronics Technology Co., Ltd.

Address of Applicant: 4th Floor, Building A, Lianxin Technology, Hangcheng Industrial Zone,

Xixiang Street, Bao'an District, Shenzhen, China

Manufacturer: Nanning Qihua Star Optoelectronic Technology Co., Ltd.

Address of Manufacturer: 5th Floor, 3#, Zhiyuan Incubation Base, No. 27, Anping Road, Guangxi-

ASEAN Economic and Technological Development Zone

Factory: Nanning Qihua Star Optoelectronic Technology Co., Ltd.

Address of Factory: 5th Floor, 3#, Zhiyuan Incubation Base, No. 27, Anping Road, Guangxi-

ASEAN Economic and Technological Development Zone

**Equipment Under Test (EUT):** 

**Product:** Multifunction Projection Clock

Model No.: QHX-R-P-001, QHX-R-P-002, QHX-R-P-003, QHX-R-P-004, QHX-R-P-005,

QHX-R-P-006

Test Model No.: QHX-R-P-001

Brand Name: N/A

FCC ID: 2AQAY-QHX

**Standards:** 47 CFR PART 15, Subpart B

**Date of Test:** 2018-06-19 to 2018-06-22

Date of Issue: 2018-06-22
Test Result: PASS\*

Tested By:

( Martin Lee )

Reviewed By: Wen Zhou

( Owen Zhou )

Approved By:

( Jack Ai )



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: CQASZ20180600056E

# **Revision History Of Report**

| Report No.        | Version | Description    | Issue Date |
|-------------------|---------|----------------|------------|
| CQASZ20180600056E | Rev.01  | Initial report | 2018-06-22 |



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# 2 Test Summary

| Test Test Requirement                   |                             | Test Method     | Class / Severity | Result |
|---|-----------------------------|-----------------|------------------|--------|
| Radiated Emission (30MHz to 6GHz)       | 47 CFR PART<br>15,Subpart B | ANSI C63.4:2014 | Class B          | PASS   |
| Conducted Emission<br>(150kHz to 30MHz) | 47 CFR PART<br>15,Subpart B | ANSI C63.4:2014 | Class B          | PASS   |

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement Range (MHz) |
|--|--|
| Below 1.705  | 30   |
| 1.705 to 108   | 1000                                       |
| 108 to 500   | 2000                                       |
| 500 to 1000  | 5000                                       |
| Above 1000   | 5th harmonic of the highest frequency or   |
|  | 40GHz, whichever is lower                  |

### Note:

The highest frequency of the internal sources of the EUT is 108 MHz

All model: QHX-R-P-001, QHX-R-P-002, QHX-R-P-003, QHX-R-P-004, QHX-R-P-005, QHX-R-P-006 Only the model QHX-R-P-001 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.





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## 4 General Information

### 4.1 Details of E.U.T.

Power Supply: USB:5V 1A or battery:2\*AAA DC3.0V

Test voltage: 120V/60Hz

Hardware Version: V1.0 Software Version: V1.0

FM receive frequency: 87.5~108MHz FM Antenna: Integral antenna

Antenna gain 0dBi

## 4.2 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No.  | Remark         |
|-------------|--------------|------------|----------------|
| Adapter     | Samsung      | EP-TA50CBC | Provide by lab |

## 4.3 Measurement Uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

| Test                     | Range      | Uncertainty | Notes |
|--------------------------|------------|-------------|-------|
| Radiated Emission        | Below 1GHz | ±5.12dB     | (1)   |
| Radiated Emission        | Above 1GHz | ±4.60dB     | (1)   |
| Conducted<br>Disturbance | 0.15~30MHz | ±3.34dB     | (1)   |

<sup>(1)</sup>This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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#### 4.4 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### • ISED Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

#### A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

#### • FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263



# 5 Equipment List

| Radiated Emission             |              |                            |                |                     |                       |  |  |  |  |  |  |
|-------------------------------|--------------|----------------------------|----------------|---------------------|-----------------------|--|--|--|--|--|--|
| Test Equipment                | Manufacturer | Model No.                  | Instrument No. | Calibration<br>Date | Calibration  Due Date |  |  |  |  |  |  |
| Horn Antenna                  | R&S          | HF906                      | CQA-012        | 2017/9/25           | 2018/9/24             |  |  |  |  |  |  |
| Bilog Antenna                 | R&S          | HL562                      | CQA-011        | 2017/9/25           | 2018/9/24             |  |  |  |  |  |  |
| EMI Test<br>Receiver          | R&S          | ESR7                       | CQA-005        | 2017/9/25           | 2018/9/24             |  |  |  |  |  |  |
| Spectrum<br>analyzer          | R&S          | FSU26                      | CQA-038        | 2017/9/25           | 2018/9/24             |  |  |  |  |  |  |
| Preamplifier                  | MITEQ        | AFS4-00010300-<br>18-10P-4 | CQA-035        | 2017/9/25           | 2018/9/24             |  |  |  |  |  |  |
| Preamplifier                  | MITEQ        | AMF-6D-<br>02001800-29-20P | CQA-036        | 2017/9/25           | 2018/9/24             |  |  |  |  |  |  |
| Coaxial cable<br>(1GHz~40GHz) | CQA          | N/A                        | C019           | 2017/10/18          | 2018/10/17            |  |  |  |  |  |  |
| Coaxial cable<br>(9KHz~1GHz)  | CQA          | N/A                        | C020           | 2017/10/18          | 2018/10/17            |  |  |  |  |  |  |

| Conducted Emission             |                   |              |           |                |            |  |  |  |  |  |  |
|--------------------------------|-------------------|--------------|-----------|----------------|------------|--|--|--|--|--|--|
| Item                           | Test<br>Equipment | Manufacturer | Model No. | Instrument No. | Due Date   |  |  |  |  |  |  |
| EMI Test<br>Receiver           | R&S               | ESR7         | CQA-005   | 2017/9/25      | 2018/9/24  |  |  |  |  |  |  |
| LISN                           | R&S               | ENV216       | CQA-003   | 2017/9/25      | 2018/9/24  |  |  |  |  |  |  |
| Coaxial cable<br>(9KHz~300MHz) | CQA               | N/A          | C009      | 2017/10/18     | 2018/10/17 |  |  |  |  |  |  |



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## 6 Test Results

### 6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: 47 CFR PART 15, Subpart B

Test Method: ANSI C63.4

Frequency Range: 150kHz to 30MHz

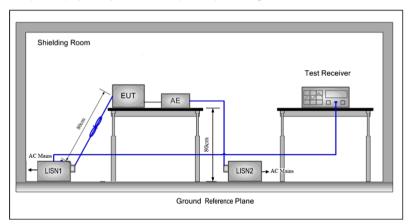
Class / Severity: Class B

Limit:

0.15M-0.5MHz 66dB(dB $\mu$ V)-56dB(dB $\mu$ V) quasi-peak, 56dB(dB $\mu$ V)-46dB(dB $\mu$ V) average

0.5M-5MHz 56dB(dB $\mu$ V) quasi-peak, 46dB(dB $\mu$ V) average 5M-30MHz 60dB(dB $\mu$ V) quasi-peak, 50dB(dB $\mu$ V) average

Test Setup:



Test Procedure:

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a  $50\Omega/50\mu H + 5\Omega$  linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit



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#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C Humidity: 55 % RH Atmospheric Pressure: 1015 mbar

EUT Operation: Mode a: USB charging

Mode b: FM radio

Mode c: Clock projection

Test Status: Pretest the EUT at different test mode and found the Mode b which is worst case,

the test worst case mode is recorded in the report.

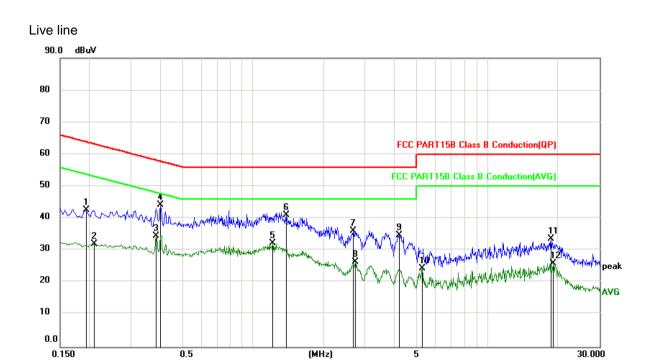
### 6.1.2 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.







| No. | Mk. | Freq.   | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV             | dB                | dBuV             | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.1940  | 32.79            | 9.74              | 42.53            | 63.86 | -21.33 | peak     |         |
| 2   |     | 0.2100  | 22.22            | 9.74              | 31.96            | 53.21 | -21.25 | AVG      |         |
| 3   | *   | 0.3860  | 24.89            | 9.74              | 34.63            | 48.15 | -13.52 | AVG      |         |
| 4   |     | 0.4020  | 34.41            | 9.74              | 44.15            | 57.81 | -13.66 | peak     |         |
| 5   |     | 1.2140  | 22.52            | 9.75              | 32.27            | 46.00 | -13.73 | AVG      |         |
| 6   |     | 1.3820  | 31.38            | 9.75              | 41.13            | 56.00 | -14.87 | peak     |         |
| 7   |     | 2.6780  | 26.44            | 9.77              | 36.21            | 56.00 | -19.79 | peak     |         |
| 8   |     | 2.7260  | 16.73            | 9.77              | 26.50            | 46.00 | -19.50 | AVG      |         |
| 9   |     | 4.1940  | 25.07            | 9.78              | 34.85            | 56.00 | -21.15 | peak     |         |
| 10  |     | 5.2740  | 14.72            | 9.79              | 24.51            | 50.00 | -25.49 | AVG      |         |
| 11  |     | 18.6940 | 23.72            | 9.87              | 33.59            | 60.00 | -26.41 | peak     |         |
| 12  |     | 19.1020 | 16.14            | 9.88              | 26.02            | 50.00 | -23.98 | AVG      |         |





#### Neutral line



| No. | Mk. | Freq.   | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV             | dB                | dBuV             | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.2660  | 21.59            | 9.80              | 31.39            | 51.24 | -19.85 | AVG      |         |
| 2   |     | 0.2700  | 32.02            | 9.80              | 41.82            | 61.12 | -19.30 | peak     |         |
| 3   |     | 0.6140  | 30.82            | 9.80              | 40.62            | 56.00 | -15.38 | peak     |         |
| 4   |     | 0.6340  | 20.44            | 9.80              | 30.24            | 46.00 | -15.76 | AVG      |         |
| 5   |     | 1.3340  | 21.41            | 9.83              | 31.24            | 46.00 | -14.76 | AVG      |         |
| 6   | *   | 1.3380  | 31.50            | 9.83              | 41.33            | 56.00 | -14.67 | peak     |         |
| 7   |     | 2.8140  | 12.11            | 9.85              | 21.96            | 46.00 | -24.04 | AVG      |         |
| 8   |     | 3.3300  | 23.64            | 9.83              | 33.47            | 56.00 | -22.53 | peak     |         |
| 9   |     | 6.8500  | 20.13            | 9.85              | 29.98            | 60.00 | -30.02 | peak     |         |
| 10  |     | 7.3900  | 11.46            | 9.85              | 21.31            | 50.00 | -28.69 | AVG      |         |
| 11  |     | 17.6340 | 21.86            | 9.88              | 31.74            | 60.00 | -28.26 | peak     |         |
| 12  |     | 17.8380 | 13.43            | 9.88              | 23.31            | 50.00 | -26.69 | AVG      |         |

#### Remark:

- 1. The following Peak, Quasi-Peak and Average measurements were performed on the EUT:
- 2. Correct Factor= LISN Factor + Cable Loss
- 3. Final Test Level =Receiver Reading + Correct Factor.
- 4. Over Limit= Final Test Level Limit



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## 6.2 Radiated Emissions, 30MHz to 6GHz

Test Requirement: 47 CFR PART 15, Subpart B

Test Method: ANSI C63.4 Frequency Range: 30MHz to 6GHz

Measurement Distance: 3m

Class: Class B

Limit: 40.0 dBµV/m between 30MHz & 88MHz

43.5 dBuV/m between 88MHz & 216MHz

46.0 dBμV/m between 216MHz & 960MHz /54.0 dBμV/m above 960MHz

The highest frequence: 74 dBµV/m above 960MHz for peak

54 dB<sub>μ</sub>V/m above 960MHz for average

Test Setup:

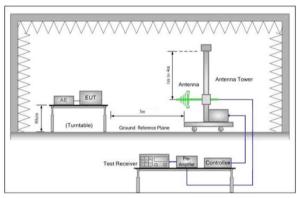


Figure 1. 30MHz to 1GHz

Test Procedure:

Figure 2. Above 1 GHz

- 1) The radiated emissions were tested in a semi-anechoic chamber.
- 2) The EUT is placed on a turntable, which is 0.8m above ground plane.
- 3) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 4) EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 5) Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6) And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7) Repeat above procedures until the measurements for all frequencies are complete.
- Above 1GHz test procedure as below:
- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and receiving antenna is moved from 1m to 4m.

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit



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## 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.0 °C Humidity: 54 % RH Atmospheric Pressure: 1015 mbar

EUT Operation: Mode a: USB charging

Mode b: FM radio

Mode c: Clock projection

Test Status: Pretest the EUT at different test mode and found the Mode b which is worst case,

the test worst case mode is recorded in the report.

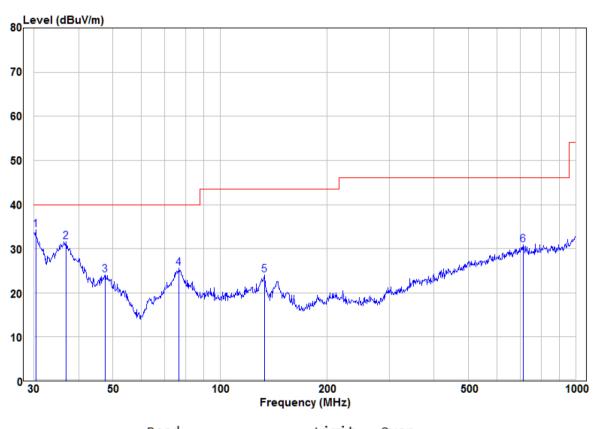




#### 6.2.2 Measurement Data

Below 1GHz

Vertical



|      | Freq   | Read<br>Level | Factor | Level  | Limit<br>Line | Over<br>Limit | Remark | Pol/Phase |
|------|--------|---------------|--------|--------|---------------|---------------|--------|-----------|
|      | MHz    | dBuV          | dB/m   | dBuV/m | dBuV/m        | dB            |        |           |
| 1 pp | 30.32  | 15.43         | 18.88  | 34.31  | 40.00         | -5.69         | Peak   | VERTICAL  |
| 2    | 36.90  | 14.42         | 17.17  | 31.59  | 40.00         | -8.41         | Peak   | VERTICAL  |
| 3    | 47.49  | 13.36         | 10.64  | 24.00  | 40.00         | -16.00        | Peak   | VERTICAL  |
| 4    | 76.78  | 16.28         | 9.30   | 25.58  | 40.00         | -14.42        | Peak   | VERTICAL  |
| 5    | 133.62 | 14.54         | 9.48   | 24.02  | 43.50         | -19.48        | Peak   | VERTICAL  |
| 6    | 711.67 | 11.13         | 19.82  | 30.95  | 46.00         | -15.05        | Peak   | VERTICAL  |

#### Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic

equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

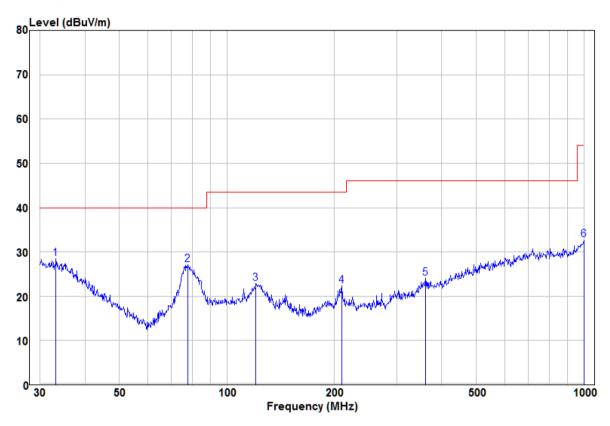
Level = Read Level + Factor,

Over Limit=Level-Limit Line.





#### Horizontal



|      | Freq    | Read<br>Level | Factor | Level  | Limit<br>Line | Over<br>Limit | Remark | Pol/Phase  |
|------|---------|---------------|--------|--------|---------------|---------------|--------|------------|
| _    | MHz     | dBuV          | dB/m   | dBuV/m | dBuV/m        | dB            |        |            |
| 1 pp | 33.21   | 9.86          | 18.65  | 28.51  | 40.00         | -11.49        | Peak   | HORIZONTAL |
| 2    | 77.87   | 17.59         | 9.50   | 27.09  | 40.00         | -12.91        | Peak   | HORIZONTAL |
| 3    | 120.70  | 12.24         | 10.66  | 22.90  | 43.50         | -20.60        | Peak   | HORIZONTAL |
| 4    | 210.05  | 12.25         | 10.10  | 22.35  | 43.50         | -21.15        | Peak   | HORIZONTAL |
| 5    | 360.45  | 10.43         | 13.69  | 24.12  | 46.00         | -21.88        | Peak   | HORIZONTAL |
| 6    | 1000.00 | 9.74          | 22.94  | 32.68  | 54.00         | -21.32        | Peak   | HORIZONTAL |

#### Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic

equation with a sample calculation is as follows:

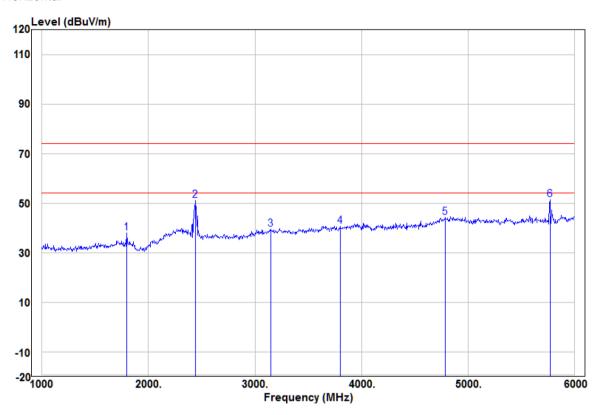
Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



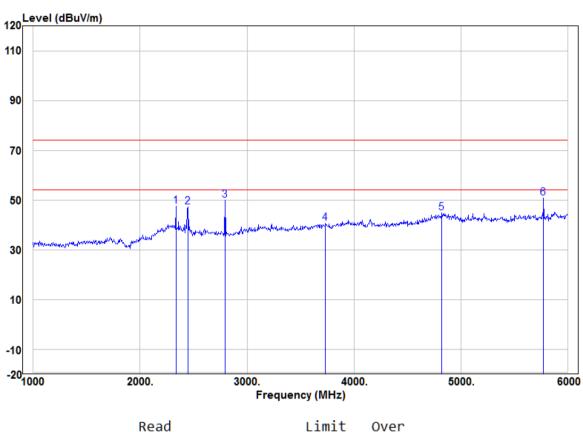
## Above 1GHz Horizontal



|      | Freq    | Read<br>Level | d<br>l Factor | Level  | Limit<br>Line | Over<br>Limit | Remark | Pol/Phase  |
|------|---------|---------------|---------------|--------|---------------|---------------|--------|------------|
| _    | MHZ     | dBuV          |               | dBuV/m |               | ———dB         |        |            |
| 1    | 1795.00 | 51.68         | -13.85        | 37.83  | 74.00         | -36.17        | Peak   | HORIZONTAL |
| 2    | 2440.00 | 62.19         | -11.17        | 51.02  | 74.00         | -22.98        | Peak   | HORIZONTAL |
| 3    | 3150.00 | 49.06         | -9.74         | 39.32  | 74.00         | -34.68        | Peak   | HORIZONTAL |
| 4    | 3800.00 | 48.82         | -8.10         | 40.72  | 74.00         | -33.28        | Peak   | HORIZONTAL |
| 5    | 4785.00 | 48.38         | -4.11         | 44.27  | 74.00         | -29.73        | Peak   | HORIZONTAL |
| 6 pp | 5770.00 | 54.16         | -2.86         | 51.30  | 74.00         | -22.70        | Peak   | HORTZONTAL |



## Vertical



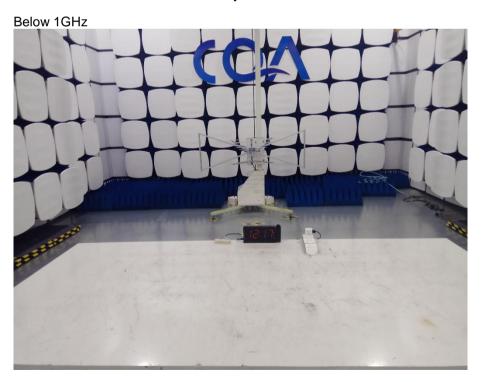
|   |    |         | Read  |        |        | Limit  | Over   |        |           |
|---|----|---------|-------|--------|--------|--------|--------|--------|-----------|
|   |    | Freq    | Level | Factor | Level  | Line   | Limit  | Remark | Pol/Phase |
|   | _  | MHZ     | dBuV  | dB/m   | dBuV/m | dBuV/m | dB     |        |           |
| 1 |    | 2335.00 | 56.94 | -9.41  | 47.53  | 74.00  | -26.47 | Peak   | VERTICAL  |
| 2 |    | 2445.00 | 58.37 | -11.17 | 47.20  | 74.00  | -26.80 | Peak   | VERTICAL  |
| 3 |    | 2795.00 | 61.70 | -11.78 | 49.92  | 74.00  | -24.08 | Peak   | VERTICAL  |
| 4 |    | 3735.00 | 48.91 | -8.32  | 40.59  | 74.00  | -33.41 | Peak   | VERTICAL  |
| 5 |    | 4825.00 | 48.74 | -3.97  | 44.77  | 74.00  | -29.23 | Peak   | VERTICAL  |
| 6 | pp | 5775.00 | 53.68 | -2.83  | 50.85  | 74.00  | -23.15 | Peak   | VERTICAL  |

# 7 Photographs

## 7.1 Conducted Emission Test Setup

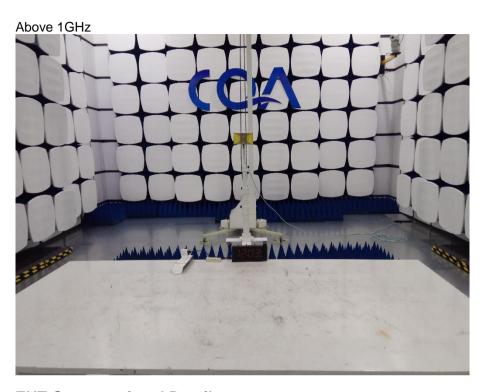


## 7.2 Radiated Emission Test Setup







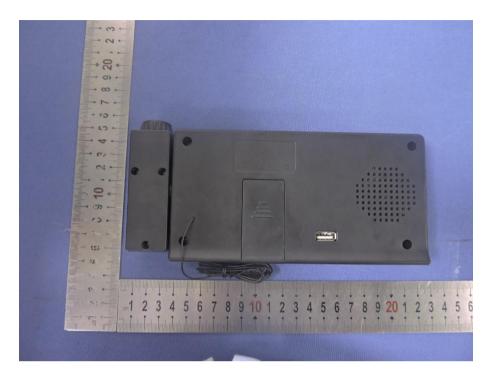


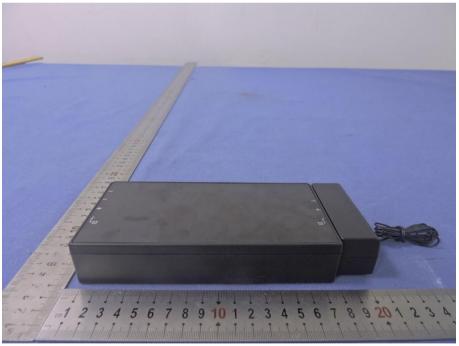
## 7.3 EUT Constructional Details













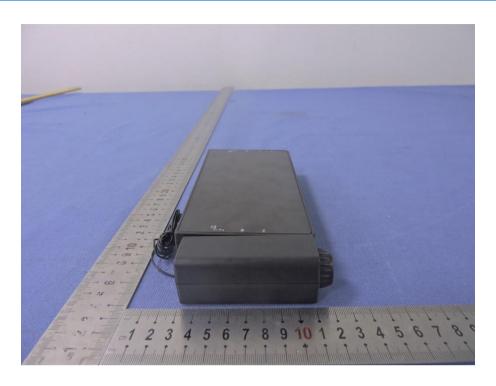






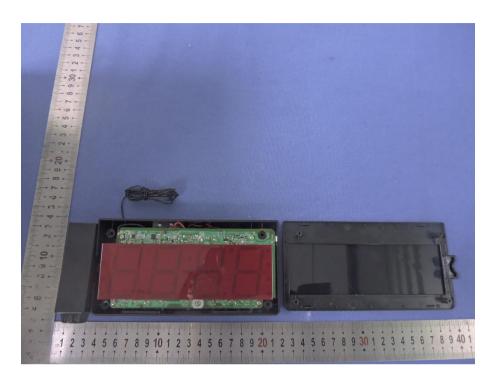


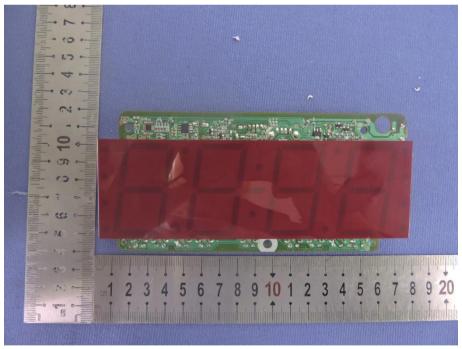






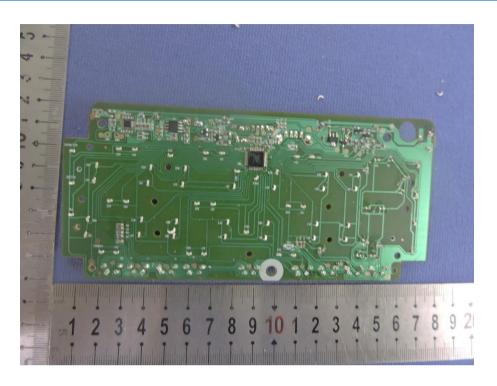


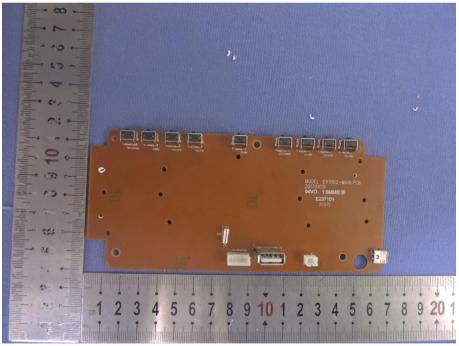








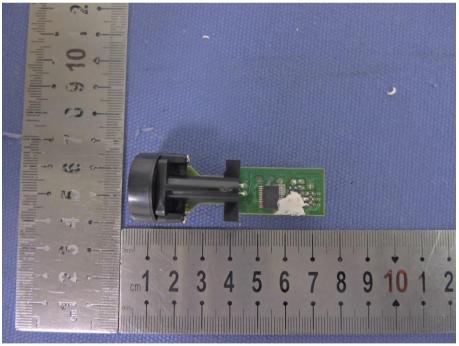






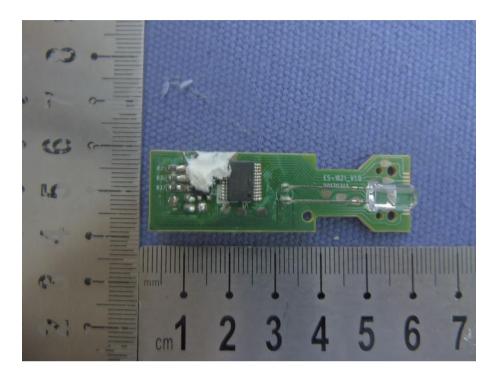


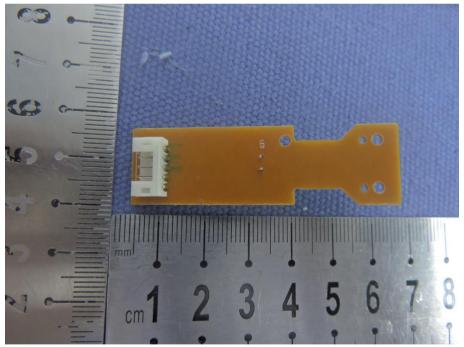












**END OF THE REPORT**