# TEST REPORT

Report Number: C21T00027-EMC01-V00

| | |
|---|---|
| Applicant | Cipia Vision Ltd |
| Product Name | Cipia-FS10 |
| Model Name | FS10-LOC / FS10-LOC-ADS |
| Brand Name | Cipia |
| FCC ID | 2AZIQFS10C |
| IC | 27633FS10L |

Industrial Internet Innovation Center (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC Part 15, Subpart B, ANSI C63.4-2014. ICES-003 Issue 7.

| | | | |
|---|---|---|---|
| Prepared by | | Reviewed by | |
| Approved by | | Issue Date | 2021-09-07 |

**Industrial Internet Innovation Center (Shanghai) Co., Ltd.**

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**Test Laboratory:**
Industrial Internet Innovation Center (Shanghai) Co., Ltd.
Add: Building 4, No. 766 Jingang Rd, Pudong, Shanghai, China
Tel: +86 21 68866880

## Revision Version

| Report Number | Revision | Date | Memo |
|---|---|---|---|
| C21T00027-EMC01-V00 | 00 | 2021-09-07 | Initial creation of test report |

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# 1. Test Laboratory

## 1.1. Testing Location

Primary Lab:

| | |
|---|---|
| Company Name | Industrial Internet Innovation Center (Shanghai) Co., Ltd. |
| Address | Building 4, No. 766 Jingang Rd, Pudong, Shanghai, China |
| FCC Registration No. | 958356 |
| FCC Designation No. | CN1177 |
| IC designation No. | CN0067 |

Subcontracting Lab #1:

| | |
|---|---|
| Company Name | N/A |
| Address | N/A |

## 1.2. Testing Environment

| | |
|---|---|
| Normal Temperature | 15℃~35℃ |
| Relative Humidity | 30%RH~60%RH |
| Supply Voltage | DC 12V/24V |

## 1.3. Project Information

| | |
|---|---|
| Project Leader | Chen Minfei |
| Testing Start Date | 2021-03-19 |
| Testing End Date | 2021-08-06 |

# 2. Client Information

## 2.1. Applicant Information

| | |
|---|---|
| Company Name | Cipia Vision Ltd |
| Address | Maskit 8th st. Hertzelia, Israel |
| Telephone | +972-77-5047760 |

## 2.2. Manufacturer Information

| | |
|---|---|
| Company Name | Cipia Vision Ltd |
| Address | Maskit 8th st. Hertzelia, Israel |
| Telephone | +972-77-5047760 |

# 3. Equipment under Test (EUT) and Ancillary Equipment (AE)

## 3.1. About EUT

| | |
|---|---|
| Product Name | Cipia-FS10 |
| Model name | FS10-LOC / FS10-LOC-ADS |
| Supported Radio Technology and Bands | BT5.0<br>WLAN 802.11b,g,n<br>WLAN 802.11a,n,ac<br>GPS<br>GLONASS |
| Hardware Version | Revision D |
| Software Version | 0.0.0.19B |

Note: Photographs of EUT are shown in ANNEX B of this test report.

## 3.2. Internal Identification of EUT used during the test

| EUT ID* | IMEI or SN | HW Version | SW Version | Date of Receipt |
|---|---|---|---|---|
| N04<br>(Mainly Supply) | N/A | Revision D | 0.0.0.19B | 2021/3/19 |
| N22<br>(Secondary Supply) | N/A | Revision D | 0.0.0.19B | 2021/7/22 |

*EUT ID: is internally used to identify the test sample in the lab.

## 3.3. Internal Identification of AE used during the test

| AE ID* | Description | Model | SN/Remark |
|---|---|---|---|
| UA01 | USB Cable | N/A | N/A |
| EA01 | External camera | N/A | N/A |
| UB04 | RS232 Cable | N/A | N/A |
| AE1 | Software (VLC) | N/A | N/A |
| AE2 | Storage Battery | 6-QW-36(280)-LT1 | N/A |
| AE3 | Notebook PC | Lenovo ThinkPad X1 Carbon 3rd Signature Edition | N/A |
| AE4 | Software (Tera Term) | N/A | N/A |

*AE ID: is internally used to identify the test sample in the lab.

*The AE is provided by the lab/client.

# 4. Reference Documents

## 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|---|---|---|
| FCC Part 15, Subpart B | Radio frequency devices | 2019/10/01 |
| ANSI C63.4 | Method of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2014 |
| ICES-003 | Information Technology Equipment(Including Digital Apparatus)-Limits and Methods of Measurement | Issue 7 |

# 5. Test Summary

## 5.1. Summary of Test Results

| Items | Test List | Standard | Verdict |
|---|---|---|---|
| 1 | Radiated Emission(DC power ports) | 15.107(a) | Pass |

## 5.2. Statements

The FS10-LOC / FS10-LOC-ADS, manufactured by Cipia Vision Ltd is a new product for testing.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 5.1.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

Note: The difference between N04 (Mainly Supply) and N22 (Secondary Supply) is that N22 (Secondary Supply) can be connected with an external camera.

## 5.3. Decision of final test mode

The EUT was tested together with the above additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration modes are as the following:

**N04 (Mainly Supply):**

| Test Item | Test setup and operating modes |
|---|---|
| Radiated emission<br>(DC power ports) | Mode 1: Camera mode+ DC12V<br>Mode 2: BT3.0 mode+ DC12V<br>Mode 3: BLE mode+ DC12V<br>Mode 4: 2.4G WLAN mode+ DC12V<br>Mode 5: 5G WLAN mode+ DC12V<br>Mode 6: GPS mode+ DC12V<br>Mode 7: 5G WLAN + DC12V<br>Mode 8: Camera mode+ DC24V |

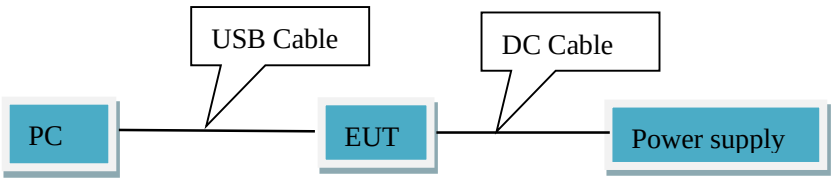
**N22 (Secondary Supply)**

| Test Item | Test setup and operating modes |
|---|---|
| Radiated emission<br>(DC power ports) | Mode 9: Camera mode+ DC12V+ EA01<br>Mode 10: Camera mode+ DC24V+ EA01 |

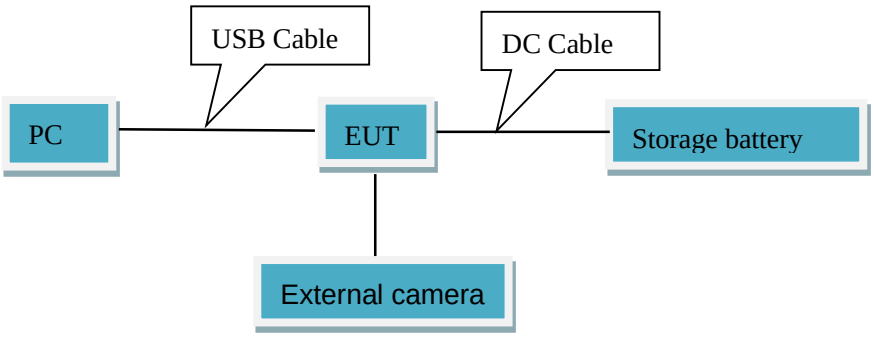
## 5.4. EUT System Operation

1. Connect the EUT with AE.
2. Setup the EUT according to the standard. EUT is through the Storage battery power supply.
3. Camera mode: Through the Software (VLC) to monitor the work of the EUT camera and external camera.
4. BT/BLE/2.4G WLAN/5G WLAN mode: Through the Software (Tera Term) input instructions to control EUT.
5. GPS/GLONASS Mode: Through the Software (Tera Term) input instructions, connect the EUT with SMBV100A Communication.
6. Start testing and monitoring the function

## 5.5. EUT Connection Diagram of Test System




<Figure 1> Mode 1-8




<Figure 2> Mode 9-10

# 6. Measurement Results

## 6.1. Radiated Emission

**Method of Measurement**

a. For 30MHz -1000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

b. For 1000MHz-18000MHz, the maximal emission value was acquired by adjusting the antenna height, the table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

**Limits for Radiated Emission at a measuring distance of 3m**

Table 1:

| Frequency Range (MHz) | Quasi-Peak (dBμV/m) |
|---|---|
| 30-88 | 40 |
| 88-216 | 43.5 |
| 216-960 | 46 |
| Above 960 | 54 |

Table 2:

| Frequency Range (MHz) | Peak (dBμV/m) | Average (dBμV/m) |
|---|---|---|
| Above 1000 | 74 | 54 |

Table 3:

**Test conditions**

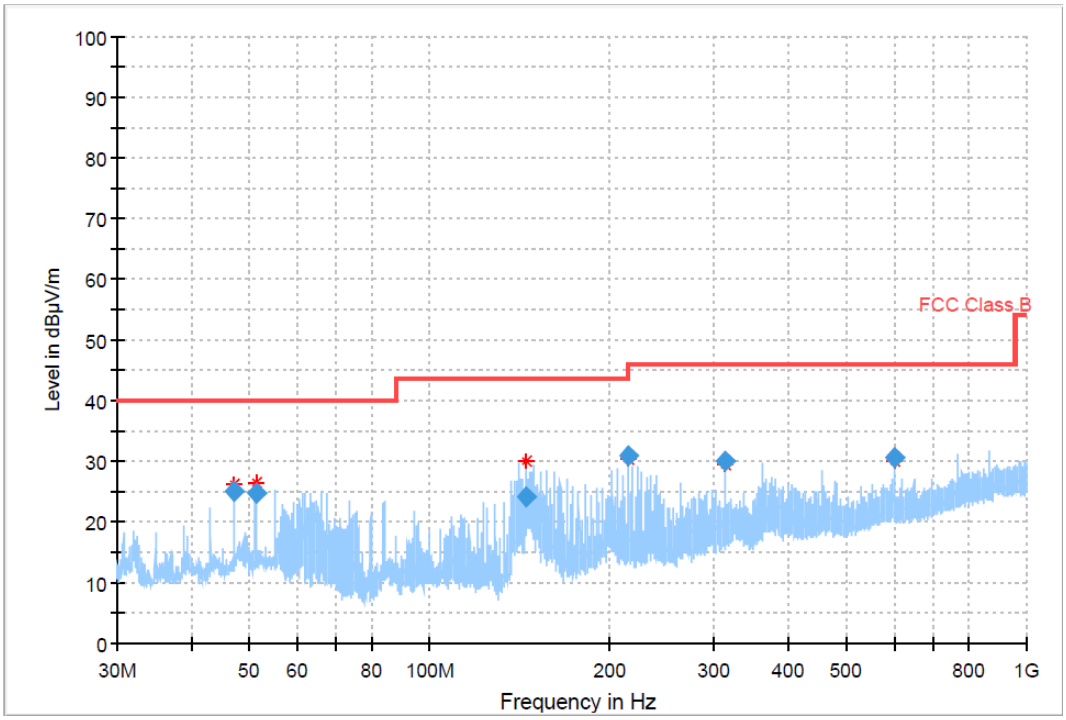
| Frequency Range (MHz) | RBW/VBW | Sweep Time (s) |
|---|---|---|
| 30-1000 | 120kHz/300kHz | Auto |
| 1000-18000 | 1MHz/3MHz | Auto |

**Test Results**

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz is more than 20dB below the limit are not report.

The following radiation emission test data also meet the limit of ICES-003 Issue 7.

N04 (Mainly Supply)_Mode 1: Camera mode+ DC12V (30M-1GHz)



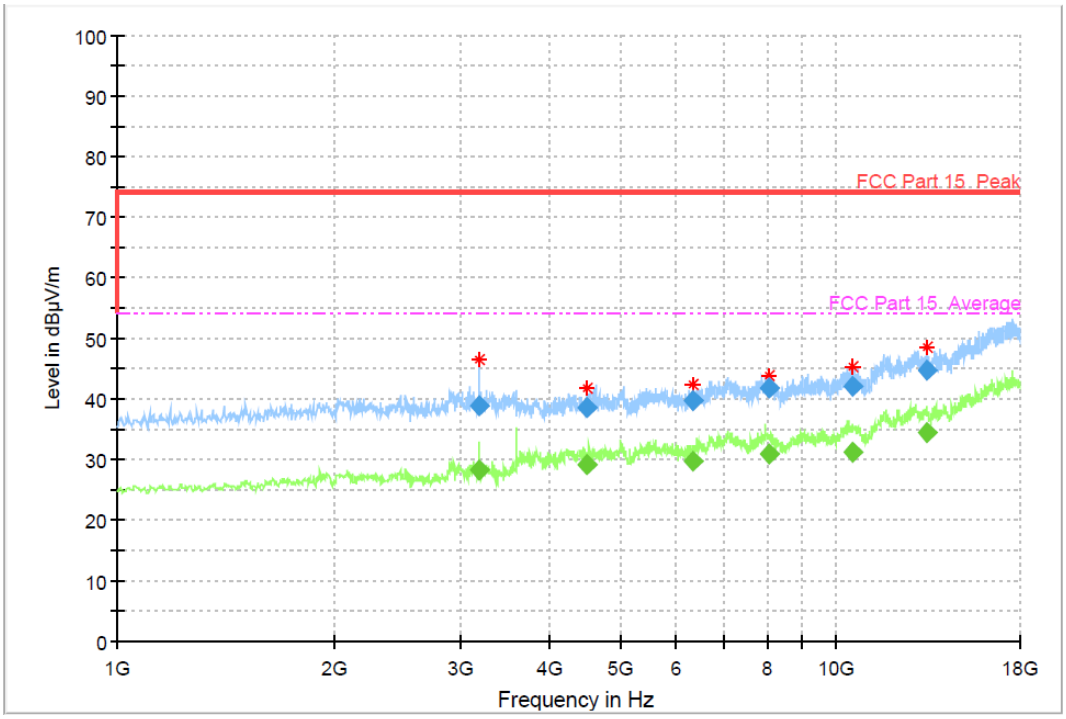

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 47.101784 | 25.02 | 40.00 | 14.98 | 1000.0 | 120.000 | 114.3 | V | 23.0 | -15.6 |
| 51.194357 | 24.72 | 40.00 | 15.28 | 1000.0 | 120.000 | 225.0 | H | -18.0 | -15.3 |
| 145.381635 | 24.11 | 43.50 | 19.39 | 1000.0 | 120.000 | 99.9 | V | 106.0 | -19.7 |
| 215.996909 | 30.74 | 43.50 | 12.76 | 1000.0 | 120.000 | 125.0 | H | 137.0 | -15.1 |
| 311.997288 | 30.08 | 46.00 | 15.92 | 1000.0 | 120.000 | 100.0 | H | 96.0 | -12.2 |
| 599.994165 | 30.48 | 46.00 | 15.52 | 1000.0 | 120.000 | 100.0 | V | 122.0 | -4.9 |

Note:

1. Emission level(QP)=Raw value by receiver + Corr(Antenna factor + cable loss - preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.

N04 (Mainly Supply)_Mode 1: Camera mode+ DC12V (1GHz –18GHz)

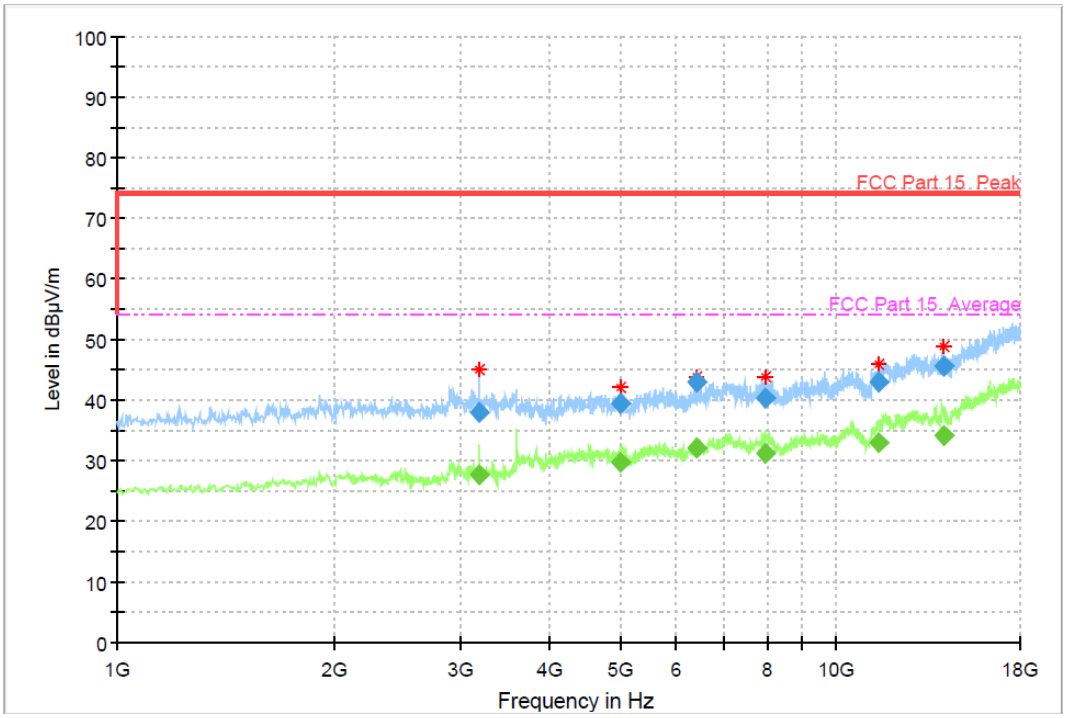



**Final Result 1**

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Band width (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 3190.60000 | 38.76 | --- | 74.00 | 35.24 | 1.0 | 1000. | 199.9 | H | 196.0 | 1.7 |
| 3190.60000 | --- | 28.25 | 54.00 | 25.75 | 1.0 | 1000. | 199.9 | H | 196.0 | 1.7 |
| 4501.80000 | --- | 29.05 | 54.00 | 24.95 | 1.0 | 1000. | 199.9 | H | 132.0 | 2.1 |
| 4501.80000 | 38.65 | --- | 74.00 | 35.35 | 1.0 | 1000. | 199.9 | H | 132.0 | 2.1 |
| 6315.20000 | 39.78 | --- | 74.00 | 34.22 | 1.0 | 1000. | 100.1 | H | 282.0 | 3.6 |
| 6315.20000 | --- | 29.57 | 54.00 | 24.43 | 1.0 | 1000. | 100.1 | H | 282.0 | 3.6 |
| 8058.40000 | --- | 30.94 | 54.00 | 23.06 | 1.0 | 1000. | 199.9 | H | 65.0 | 5.3 |
| 8058.40000 | 41.78 | --- | 74.00 | 32.22 | 1.0 | 1000. | 199.9 | H | 65.0 | 5.3 |
| 10526.8000 | 42.19 | --- | 74.00 | 31.81 | 1.0 | 1000. | 100.1 | H | 189.0 | 7.9 |
| 10526.8000 | --- | 31.32 | 54.00 | 22.68 | 1.0 | 1000. | 100.1 | H | 189.0 | 7.9 |
| 13382.8000 | 44.59 | --- | 74.00 | 29.41 | 1.0 | 1000. | 100.1 | H | 178.0 | 12.0 |
| 13382.8000 | --- | 34.55 | 54.00 | 19.45 | 1.0 | 1000. | 100.1 | H | 178.0 | 12.0 |

Note:

1. Emission level (peak or average)=Raw value by receiver + Corr (Antenna factor+ cable loss-preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.



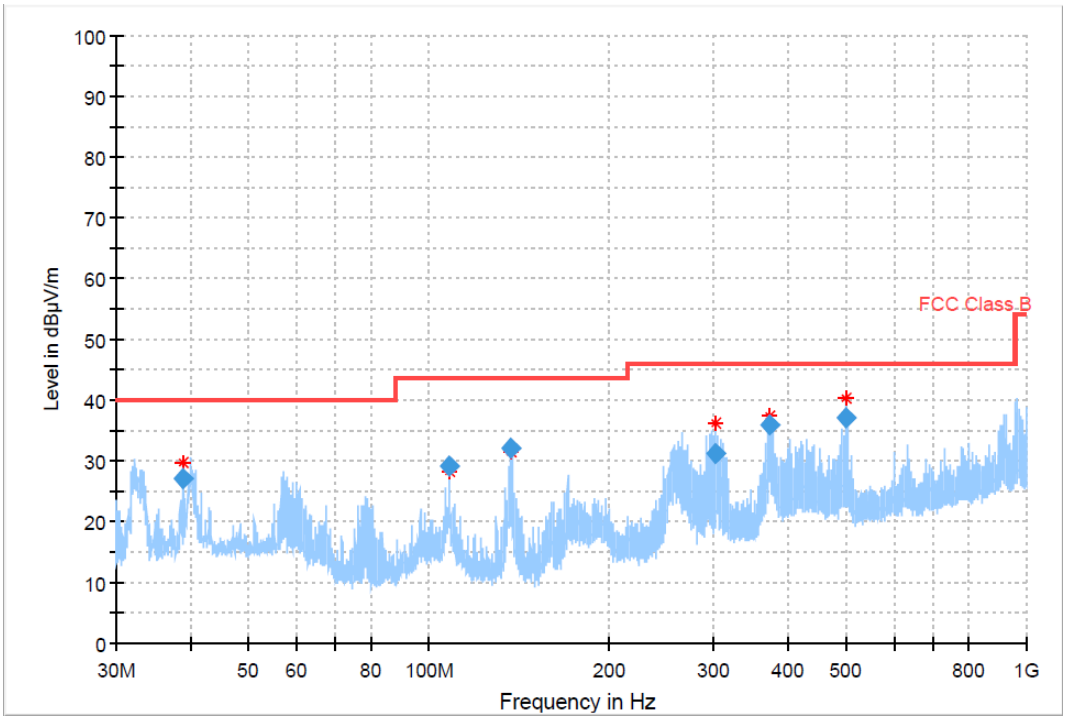

**Final Result 1**

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Band width (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 3190.60000 | 37.81 | --- | 74.00 | 36.19 | 1.0 | 1000. | 199.9 | V | 68.0 | 1.7 |
| 3190.60000 | --- | 27.51 | 54.00 | 26.49 | 1.0 | 1000. | 199.9 | V | 68.0 | 1.7 |
| 5022.40000 | --- | 29.65 | 54.00 | 24.35 | 1.0 | 1000. | 100.1 | V | 163.0 | 6.0 |
| 5022.40000 | 39.50 | --- | 74.00 | 34.50 | 1.0 | 1000. | 100.1 | V | 163.0 | 6.0 |
| 6383.20000 | 42.95 | --- | 74.00 | 31.05 | 1.0 | 1000. | 199.9 | V | 158.0 | 3.5 |
| 6383.20000 | --- | 32.12 | 54.00 | 21.88 | 1.0 | 1000. | 199.9 | V | 158.0 | 3.5 |
| 7952.00000 | --- | 31.32 | 54.00 | 22.68 | 1.0 | 1000. | 100.1 | V | 84.0 | 5.4 |
| 7952.00000 | 40.43 | --- | 74.00 | 33.57 | 1.0 | 1000. | 100.1 | V | 84.0 | 5.4 |
| 11485.6000 | --- | 33.02 | 54.00 | 20.98 | 1.0 | 1000. | 199.9 | V | 0.0 | 9.7 |
| 11485.6000 | 42.92 | --- | 74.00 | 31.08 | 1.0 | 1000. | 199.9 | V | 0.0 | 9.7 |
| 14109.4000 | --- | 34.05 | 54.00 | 19.95 | 1.0 | 1000. | 100.1 | V | 92.0 | 12.7 |
| 14109.4000 | 45.61 | --- | 74.00 | 28.39 | 1.0 | 1000. | 100.1 | V | 92.0 | 12.7 |

Note:

1. Emission level (peak or average) = Raw value by receiver + Corr (Antenna factor+ cable loss-preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.

N22 (Secondary Supply)_Mode 9: Camera mode+ DC12V+ EA01 (30M-1GHz)



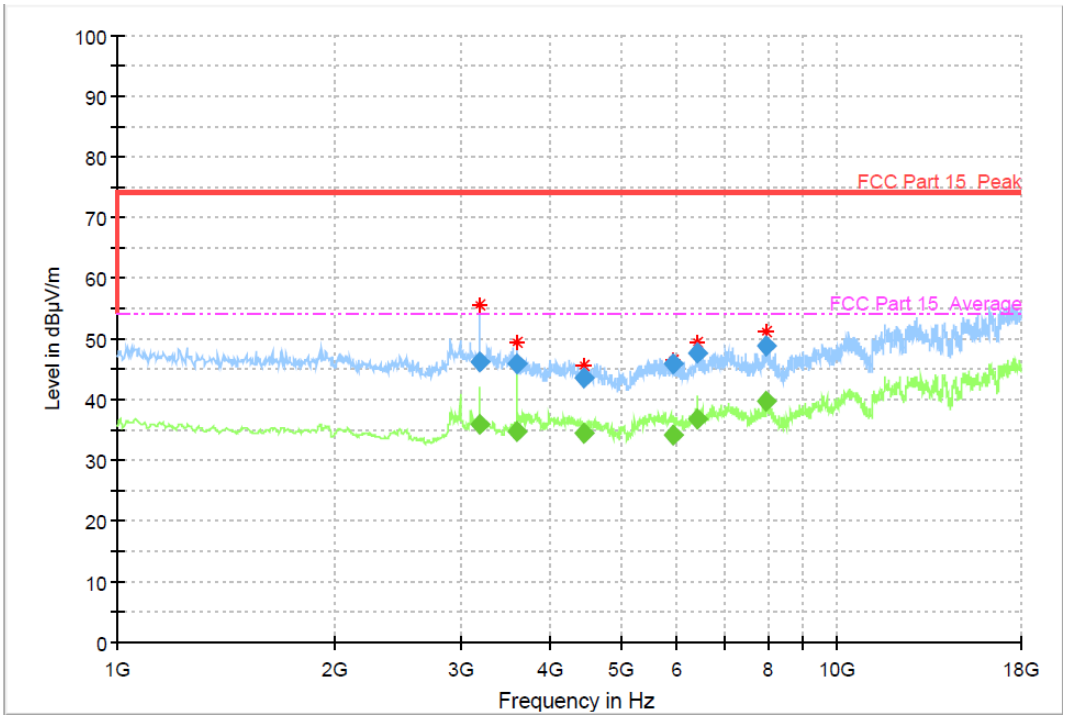

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|
| 38.937101 | 27.10 | 40.00 | 12.90 | 1000.0 | 120.000 | 100.0 | V | 234.0 | -12.9 |
| 108.452147 | 29.15 | 43.50 | 14.35 | 1000.0 | 120.000 | 225.0 | H | 156.0 | -13.4 |
| 136.920376 | 31.92 | 43.50 | 11.58 | 1000.0 | 120.000 | 175.0 | H | 178.0 | -16.8 |
| 302.211368 | 31.10 | 46.00 | 14.90 | 1000.0 | 120.000 | 105.0 | V | 29.0 | -10.9 |
| 370.750464 | 36.00 | 46.00 | 10.00 | 1000.0 | 120.000 | 100.0 | H | 264.0 | -9.1 |
| 499.995293 | 37.17 | 46.00 | 8.83 | 1000.0 | 120.000 | 100.0 | H | 290.0 | -6.7 |

Note:

1. Emission level(QP)=Raw value by receiver + Corr(Antenna factor + cable loss - preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.

N22 (Secondary Supply)_Mode 9: Camera mode+ DC12V+ EA01 (1GHz –18GHz)

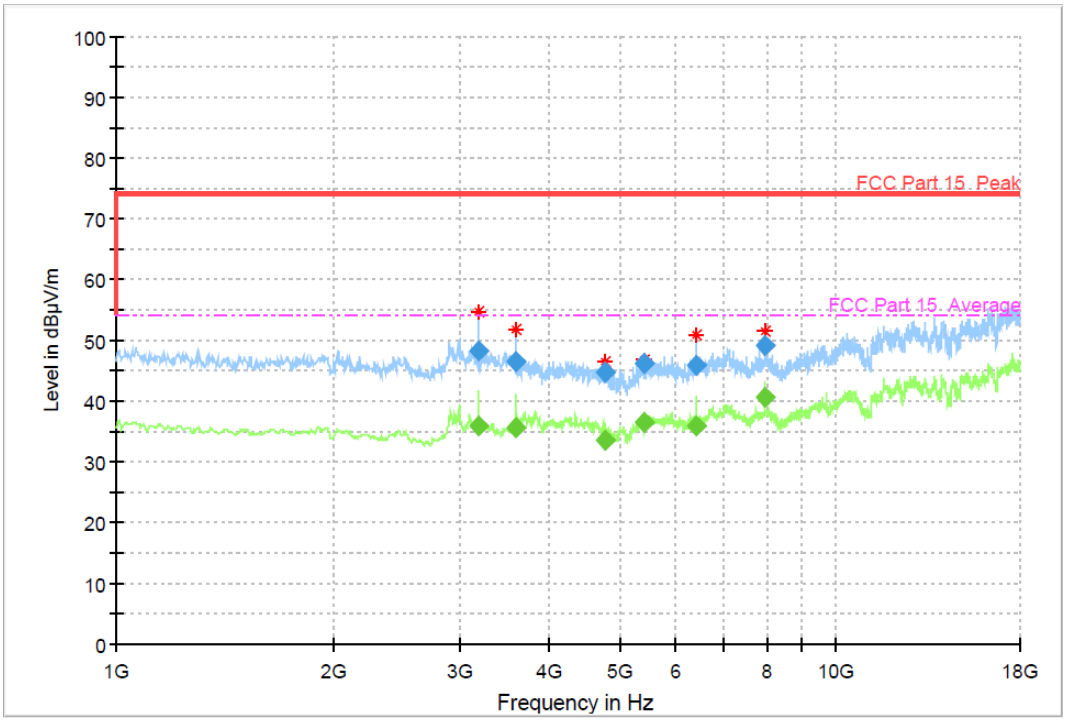



**Final Result 1**

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Band width (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 3190.60000 | 46.32 | --- | 74.00 | 27.68 | 1.0 | 1000. | 100.0 | H | 225.0 | 0.5 |
| 3190.60000 | --- | 36.00 | 54.00 | 18.00 | 1.0 | 1000. | 100.0 | H | 225.0 | 0.5 |
| 3591.40000 | 45.84 | --- | 74.00 | 28.16 | 1.0 | 1000. | 200.0 | H | 340.0 | 1.2 |
| 3591.40000 | --- | 34.70 | 54.00 | 19.30 | 1.0 | 1000. | 200.0 | H | 340.0 | 1.2 |
| 4443.80000 | 43.60 | --- | 74.00 | 30.40 | 1.0 | 1000. | 100.0 | H | 45.0 | 1.5 |
| 4443.80000 | --- | 34.30 | 54.00 | 19.70 | 1.0 | 1000. | 100.0 | H | 45.0 | 1.5 |
| 5909.20000 | 46.02 | --- | 74.00 | 27.98 | 1.0 | 1000. | 200.0 | H | 255.0 | 2.3 |
| 5909.20000 | --- | 34.01 | 54.00 | 19.99 | 1.0 | 1000. | 200.0 | H | 255.0 | 2.3 |
| 6383.20000 | 47.62 | --- | 74.00 | 26.38 | 1.0 | 1000. | 100.0 | H | 241.0 | 2.8 |
| 6383.20000 | --- | 36.78 | 54.00 | 17.22 | 1.0 | 1000. | 100.0 | H | 241.0 | 2.8 |
| 7979.80000 | 48.91 | --- | 74.00 | 25.09 | 1.0 | 1000. | 200.0 | H | 221.0 | 4.4 |
| 7979.80000 | --- | 39.84 | 54.00 | 14.16 | 1.0 | 1000. | 200.0 | H | 221.0 | 4.4 |

Note:

1. Emission level (peak or average)=Raw value by receiver + Corr (Antenna factor+ cable loss-preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.




**Final Result 1**

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time (ms) | Band width (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 3190.60000 | 48.27 | --- | 74.00 | 25.73 | 1.0 | 1000. | 100.0 | V | 236.0 | 0.5 |
| 3190.60000 | --- | 36.02 | 54.00 | 17.98 | 1.0 | 1000. | 100.0 | V | 236.0 | 0.5 |
| 3587.60000 | --- | 35.51 | 54.00 | 18.49 | 1.0 | 1000. | 100.0 | V | 351.0 | 1.2 |
| 3587.60000 | 46.39 | --- | 74.00 | 27.61 | 1.0 | 1000. | 100.0 | V | 351.0 | 1.2 |
| 4784.80000 | 44.64 | --- | 74.00 | 29.36 | 1.0 | 1000. | 100.0 | V | 103.0 | 1.5 |
| 4784.80000 | --- | 33.58 | 54.00 | 20.42 | 1.0 | 1000. | 100.0 | V | 103.0 | 1.5 |
| 5400.00000 | 46.29 | --- | 74.00 | 27.71 | 1.0 | 1000. | 100.0 | V | 194.0 | 2.0 |
| 5400.00000 | --- | 36.39 | 54.00 | 17.61 | 1.0 | 1000. | 100.0 | V | 194.0 | 2.0 |
| 6383.20000 | --- | 35.75 | 54.00 | 18.25 | 1.0 | 1000. | 200.0 | V | 289.0 | 2.8 |
| 6383.20000 | 45.96 | --- | 74.00 | 28.04 | 1.0 | 1000. | 200.0 | V | 289.0 | 2.8 |
| 7979.80000 | 49.10 | --- | 74.00 | 24.90 | 1.0 | 1000. | 100.0 | V | 236.0 | 4.4 |
| 7979.80000 | --- | 40.48 | 54.00 | 13.52 | 1.0 | 1000. | 100.0 | V | 236.0 | 4.4 |

Note:

1. Emission level (peak or average) = Raw value by receiver + Corr (Antenna factor+ cable loss-preamplifier gain)
2. The raw value is used to calculate by software which is not shown in the sheet.
3. Margin=limit value – emission level.

## 7. Test Equipment List

| Item | Equipment Name | Type | Serial Number | Manufacturer | Cal. Date | Cal. interval |
|---|---|---|---|---|---|---|
| 1 | Test Receiver | ESU40 | 100307 | R&S | 2021-03-03 | 1 year |
| 2 | Trilog Antenna | VULB9163 | VULB9163-515 | Schwarzbeck | 2021-02-03 | 2 years |
| 3 | Double Ridged Guide Antenna | ETS-3117 | 00135890 | ETS | 2020-02-28 | 2 years |
| 4 | EMI Test Software | EMC32 V9.15 | N/A | R&S | N/A | N/A |
| 5 | Vector signal generator | SMBV100A | 257904 | R&S | 2020-03-18<br>2021-03-03 | 1 year |

## Annex A: Measurement Uncertain

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of *k*=2.

| Case | Uncertainty |
|---|---|
| Radiated Emission 30MHz-1000MHz | 4.96 dB |
| Radiated Emission 1000MHz-18000MHz | 5.18 dB |

## Annex B: Accreditation Certificate

# Accredited Laboratory

A2LA has accredited

## INDUSTRIAL INTERNET INNOVATION CENTER (SHANGHAI) CO., LTD.

*Shanghai, People's Republic of China*

for technical competence in the field of

### Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 12th day of April 2021.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3682.01
Valid to February 28, 2023

*For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*

**********END OF REPORT**********