



# Part 15C

## TEST REPORT

|               |                                  |
|---------------|----------------------------------|
| Product Name  | FS Reader                        |
| Model         | FS Reader                        |
| FCC ID        | 2AEN9FS3771470                   |
| Applicant     | DARE!! Measurements              |
| Manufacturer  | EasyLogic RFID distribution b.v. |
| Date of issue | September 15, 2015               |

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**GENERAL SUMMARY**

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reference Standard(s)</b> | <p><b>FCC CFR47 Part 15C</b> Radio Frequency Devices</p> <p><b>15.203</b> Antenna requirement</p> <p><b>15.205</b> Restricted bands of operation;</p> <p><b>15.207</b> Conducted limits;</p> <p><b>15.209</b> Radiated emission limits; general requirements;</p> <p><b>ANSI C63.4</b> Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 KHz to 40GHz. (2014)</p> |
| <b>Conclusion</b>            | <p>This equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 2 of this test report are below limits specified in the relevant standards.</p> <p>General Judgment: <b>Pass</b></p>                                                                                                                                                                                                    |
| <b>Comment</b>               | <p>The test result only responds to the measured sample.</p>                                                                                                                                                                                                                                                                                                                                                                          |

Approved by Kai Xu  
Kai Xu  
Director

Revised by Lingling Kang  
Lingling Kang  
RF Manager

Performed by Changxu Wan  
Changxu Wan  
RF Engineer

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## 1. General Information

### 1.1. Notes of the test report

**TA Technology (Shanghai) Co., Ltd.** has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS), and accreditation number: L2264.

**TA Technology (Shanghai) Co., Ltd.** has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements. The site recognition number is 428261.

**TA Technology (Shanghai) Co., Ltd.** has been listed by industry Canada to perform electromagnetic emission measurement. The site recognition number is 8510A.

**TA Technology (Shanghai) Co., Ltd.** guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

**TA Technology (Shanghai) Co., Ltd.** is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of **TA Technology (Shanghai) Co., Ltd.**

If the electronic report is inconsistent with the printed one, it should be subject to the latter.

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### 1.2. Testing laboratory

Company: TA Technology (Shanghai) Co., Ltd.  
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong  
City: Shanghai  
Post code: 201201  
Country: P. R. China  
Contact: Xu Kai  
Telephone: +86-021-50791141/2/3  
Fax: +86-021-50791141/2/3-8000  
Website: <http://www.ta-shanghai.com>  
E-mail: [xukai@ta-shanghai.com](mailto:xukai@ta-shanghai.com)

### 1.3. Applicant Information

Company: DARE!! Measurements  
Address: Vijzelmolenlaan 7, Woerden, The Netherlands NL-3447 GX

### 1.4. Manufacturer Information

Company: EasyLogic RFID distribution b.v.  
Address: Westbaan 288, Moordrecht, The Netherlands NL-2841 MC

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### 1.5. Information of EUT

#### General information

|                                  |                    |
|----------------------------------|--------------------|
| Name of EUT:                     | FS Reader          |
| SN:                              | 002136             |
| Hardware Version:                | V4.0               |
| Software Version:                | V1.0.35 EMD        |
| Antenna Type:                    | Internal Antenna   |
| Device Operating Configurations: |                    |
| Modulation Type:                 | ASK                |
| Power Supply:                    | Battery or Adapter |
| Operating Frequency Range(s)     | 125K               |

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### Auxiliary equipment details

#### AE2: Charger

Model: FS Cradle

Manufacturer: /

S/N: 001124

### 1.6. Test Date

The test is performed from January 28, 2015 to March 29, 2015

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## **2. Test Information**

### **2.1. Test Mode**

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

EUT is stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded. Then this mode was measured in the following mode: EUT with cradle and EUT without cradle. The worst emission was found in EUT with cradle mode and the worst case was recorded.

| <b>Test Modes</b> |                     |                      |
|-------------------|---------------------|----------------------|
| Band              | Radiated Test Cases | Conducted Test Cases |
| RFID(125kHz )     | ASK(125kHz)         | ASK(125kHz)          |

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**2.2. Summary of test results**

| Number | Summary of measurements of results | Clause in FCC rules | Verdict |
|--------|------------------------------------|---------------------|---------|
| 1      | -26dB Bandwidth                    | ANSI C63.4          | PASS    |
| 2      | Spurious RF Conducted Emissions    | 15.207              | NA      |
| 3      | Radiates Emission                  | 15.209              | PASS    |
| 4      | Conducted Emission                 | 15.209              | PASS    |

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### 2.3. -26dB Bandwidth

#### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

#### Method of Measurement

The EUT was connected to Spectrum Analyzer via an omni antenna. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 1kHz; VBW is set to 3kHz. 99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

#### Test Setup



#### Limits

No specific occupied bandwidth requirements in part 2.1049.

#### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 936$  Hz.

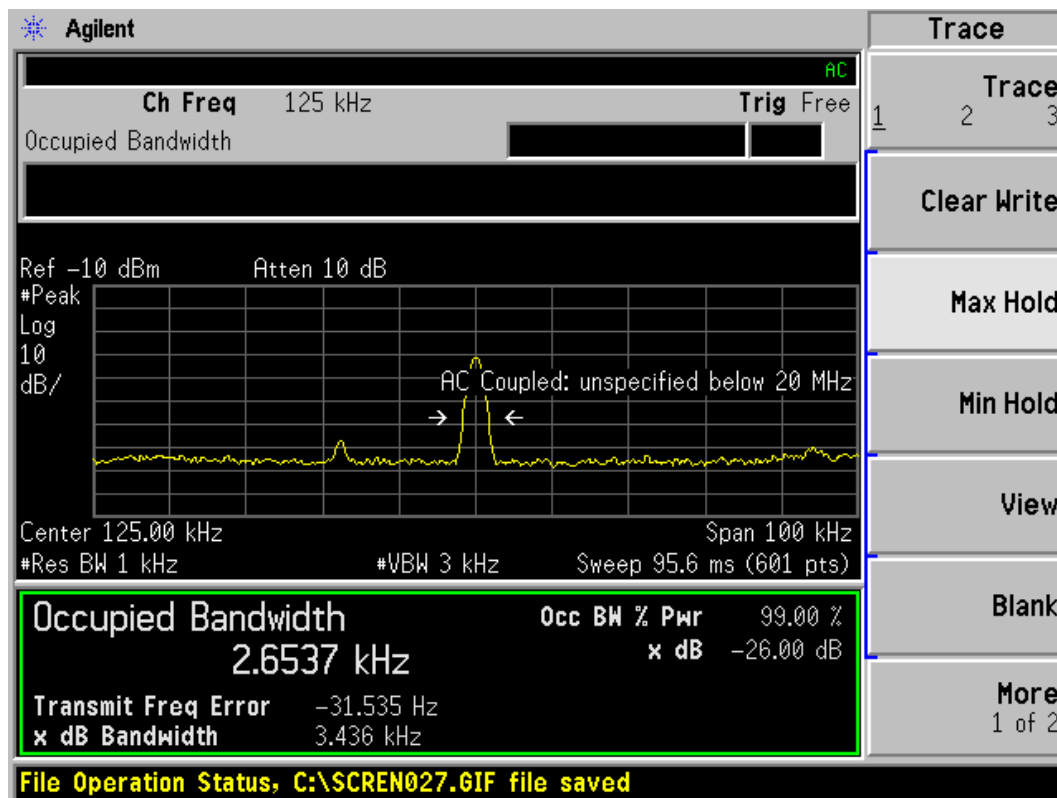
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## Test Results

| Frequency (kHz) | 99% Power Bandwidth (kHz) | -26dBc Bandwidth(kHz) |
|-----------------|---------------------------|-----------------------|
| 125             | 2.6537                    | 3.436                 |



Carrier frequency (MHz): 125kHz

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### 2.4. Spurious RF Conducted Emissions

#### Ambient condition

|             |                   |          |
|-------------|-------------------|----------|
| Temperature | Relative humidity | Pressure |
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

#### Method of Measurement

The EUT was connected to the spectrum analyzer and Bluetooth test set via a power splitter with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

#### Test setup



#### Limits

Rule Part 15.247(d) specifies that "In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power."

#### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

| Frequency   | Uncertainty |
|-------------|-------------|
| 100kHz-2GHz | 0.684 dB    |
| 2GHz-26GHz  | 1.407 dB    |

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**Test Results:**

These requirements do not apply for the equipment.

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### 2.5. Radiates Emission

#### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 102.5kPa |

#### Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.4-2014. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz(detector: Peak):

(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded. Then this mode was measured in the following mode: EUT with cradle and EUT without cradle. The worst emission was found in EUT with cradle mode and the worst case was recorded.

The test is in transmitting mode.

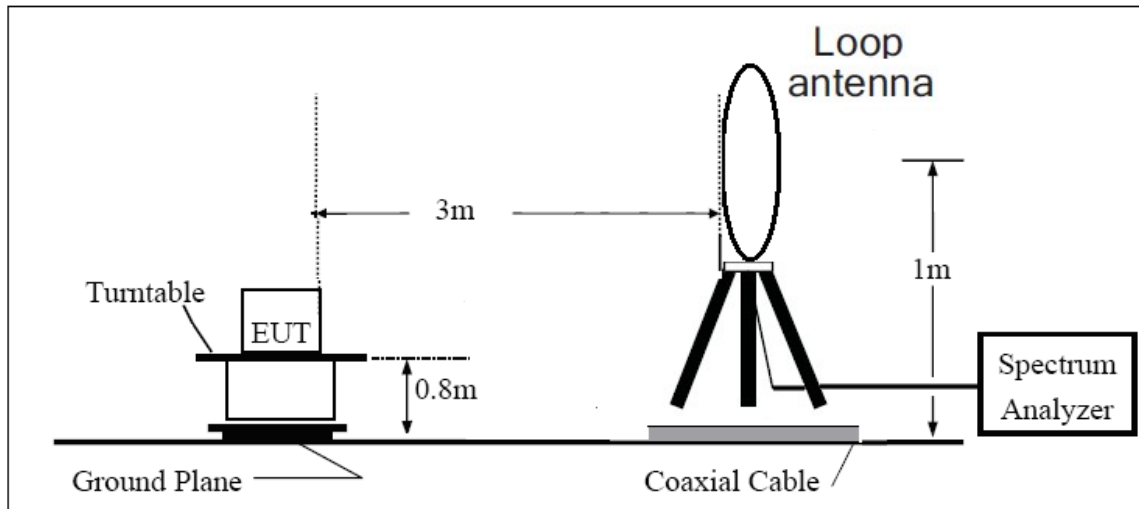
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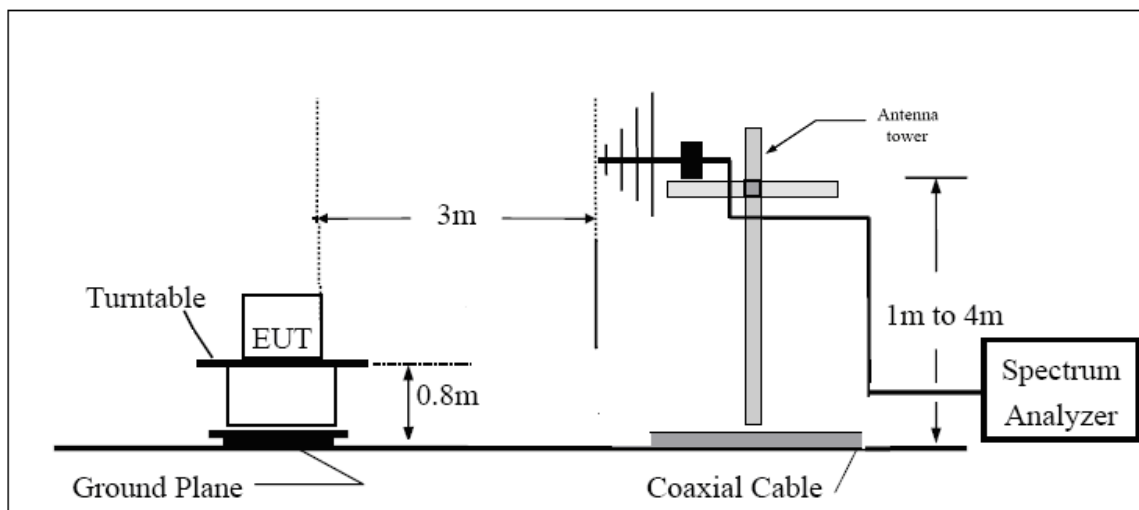
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Test setup

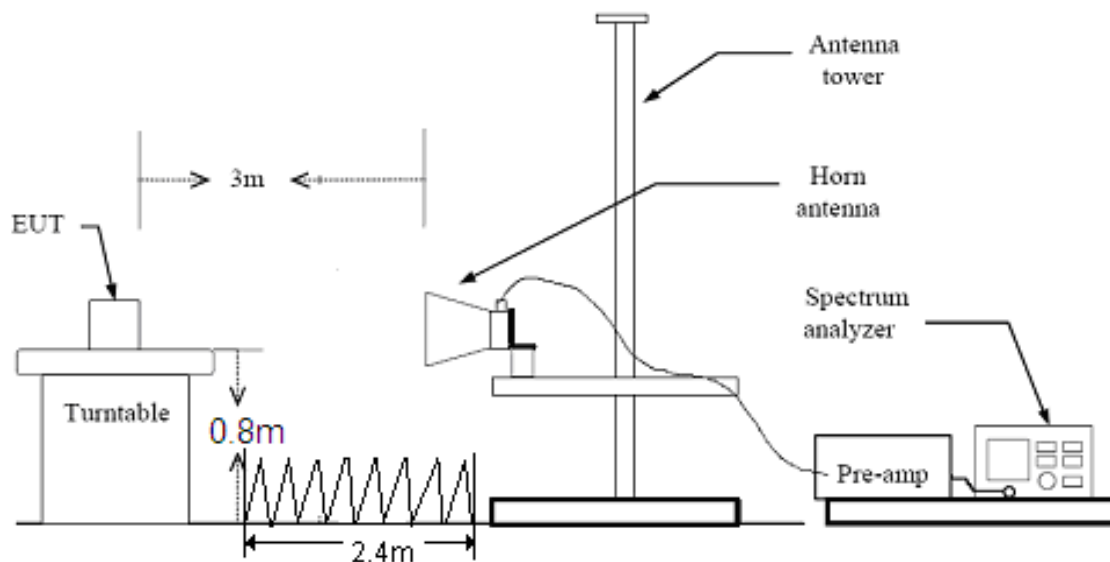
9KHz~~~ 30MHz



30MHz~~~ 1GHz



Above 1GHz



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**Limits**

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 0.009–0.490                 | 2400/F(kHz)          | 107.6-20logF           |
| 0.490–1.705                 | 24000/F(kHz)         | 107.6-20logF           |
| 1.705–30.0                  | 30                   | 50                     |
| 30-88                       | 100                  | 40                     |
| 88-216                      | 150                  | 43.5                   |
| 216-960                     | 200                  | 46                     |
| Above960                    | 500                  | 54                     |

**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

| Frequency    | Uncertainty |
|--------------|-------------|
| 9KHz-30MHz   | 3.55 dB     |
| 30MHz-200MHz | 4.19 dB     |
| 200MHz-1GHz  | 3.63 dB     |

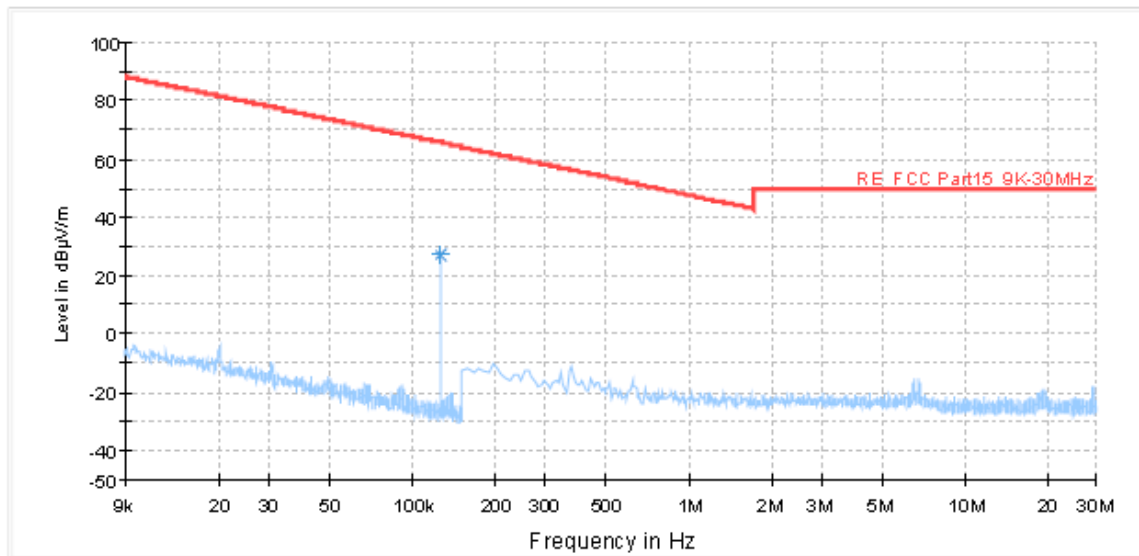
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Test result

RE 9K-30MHz



RE FCC Part15 9K-30MHz [..V]  
Preview Result 1-PK+ [Preview Result 1.Result:1]  
\* Data Reduction Result 1 [1]-PK+ [Data Reduction Result 1 [1].Result:1]

Radiates Emission from 9KHz to 30MHz

Note: This graph displays the maximum values of horizontal and vertical by software

| Frequency<br>(MHz) | Quasi-Peak<br>(dBuV/m) | Height<br>(cm) | Polari<br>zation | Azimuth<br>(deg) | Reading<br>value<br>(dBuV/m) | Correct<br>Factor<br>(dB) | Margin<br>(dB) | Limit<br>(dBuV/m) |
|--------------------|------------------------|----------------|------------------|------------------|------------------------------|---------------------------|----------------|-------------------|
| 0.125043           | 27.3                   | 100.0          | V                | 0.0              | 59.9                         | -32.6                     | 38.4           | 65.7              |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

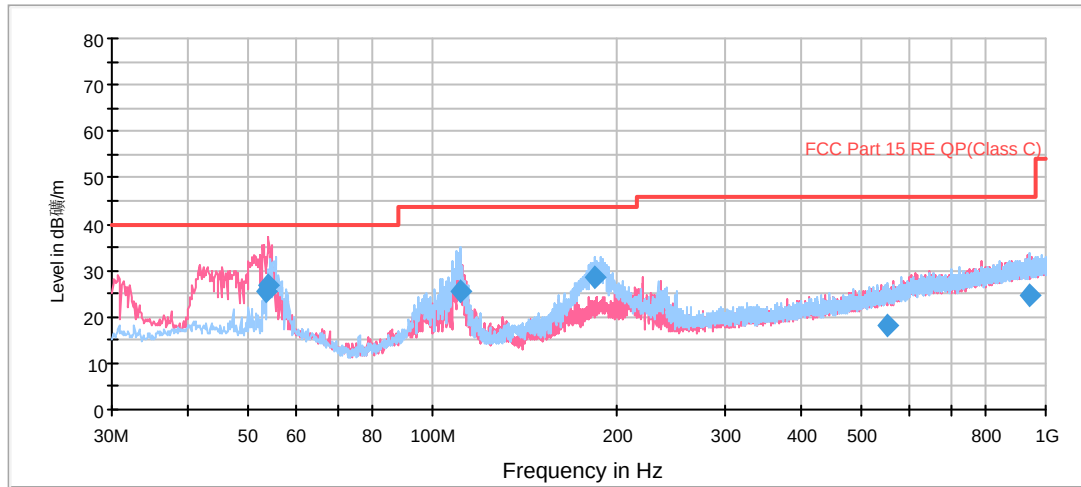
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RE 0.03-1GHz QP Class B



— FCC Part 15 RE QP(Class C) [...] — Preview Result 1V-PK+ [Preview Result 1V.Result:1]  
 — Preview Result 1H-PK+ [Preview Result 1H.Result:1] ◆ Final Result 1-QPK [Final Result 1.Result:1]

Radiates Emission from 30MHz to 1GHz

Note: The signal beyond the limit is carrier.

Note: This graph displays the maximum values of horizontal and vertical by software

Note: The signal beyond the limit is carrier. a font (Level in dBμV/m) in the test plot =(level in dBuV/m)

| Frequency (MHz) | Quasi-Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 53.516250       | 25.7                | 100.0       | V            | 225.0         | 38.5                   | 12.8                | 14.3        | 40.0           |
| 54.127500       | 26.8                | 100.0       | V            | 288.0         | 39.6                   | 12.8                | 13.2        | 40.0           |
| 111.316250      | 25.4                | 125.0       | H            | 0.0           | 37.5                   | 12.1                | 18.1        | 43.5           |
| 184.511250      | 28.3                | 114.0       | H            | 0.0           | 39.4                   | 11.1                | 15.2        | 43.5           |
| 552.018750      | 18.2                | 125.0       | H            | 332.0         | 39.3                   | 21.1                | 27.8        | 46.0           |
| 944.631250      | 24.8                | 100.0       | H            | 167.0         | 50.8                   | 26.0                | 21.2        | 46.0           |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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### 2.6. Conducted Emission

#### Ambient condition

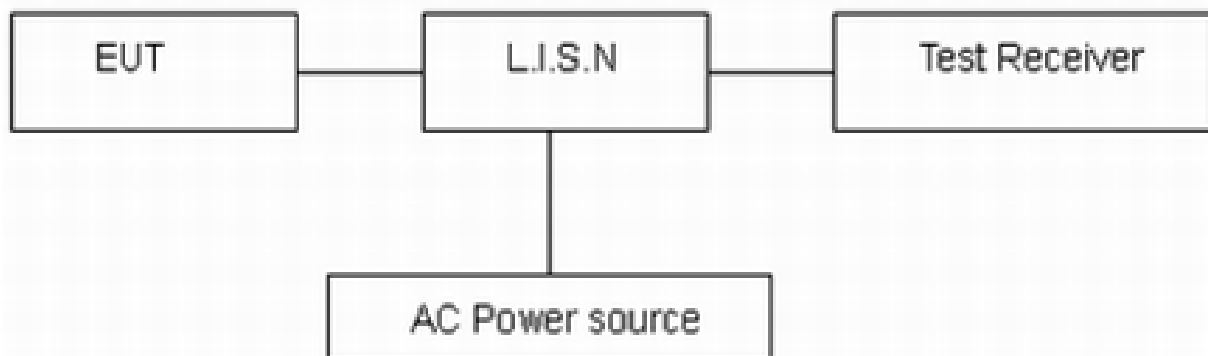
|             |                   |          |
|-------------|-------------------|----------|
| Temperature | Relative humidity | Pressure |
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

#### Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

The test is in transmitting mode.

#### Test Setup



Note: AC Power source is used to change the voltage from 220V/50Hz to 110V/60Hz.

#### Limits

| Frequency<br>(MHz)                                | Conducted Limits(dB $\mu$ V) |            |
|---------------------------------------------------|------------------------------|------------|
|                                                   | 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. |                              |            |

#### Measurement Uncertainty

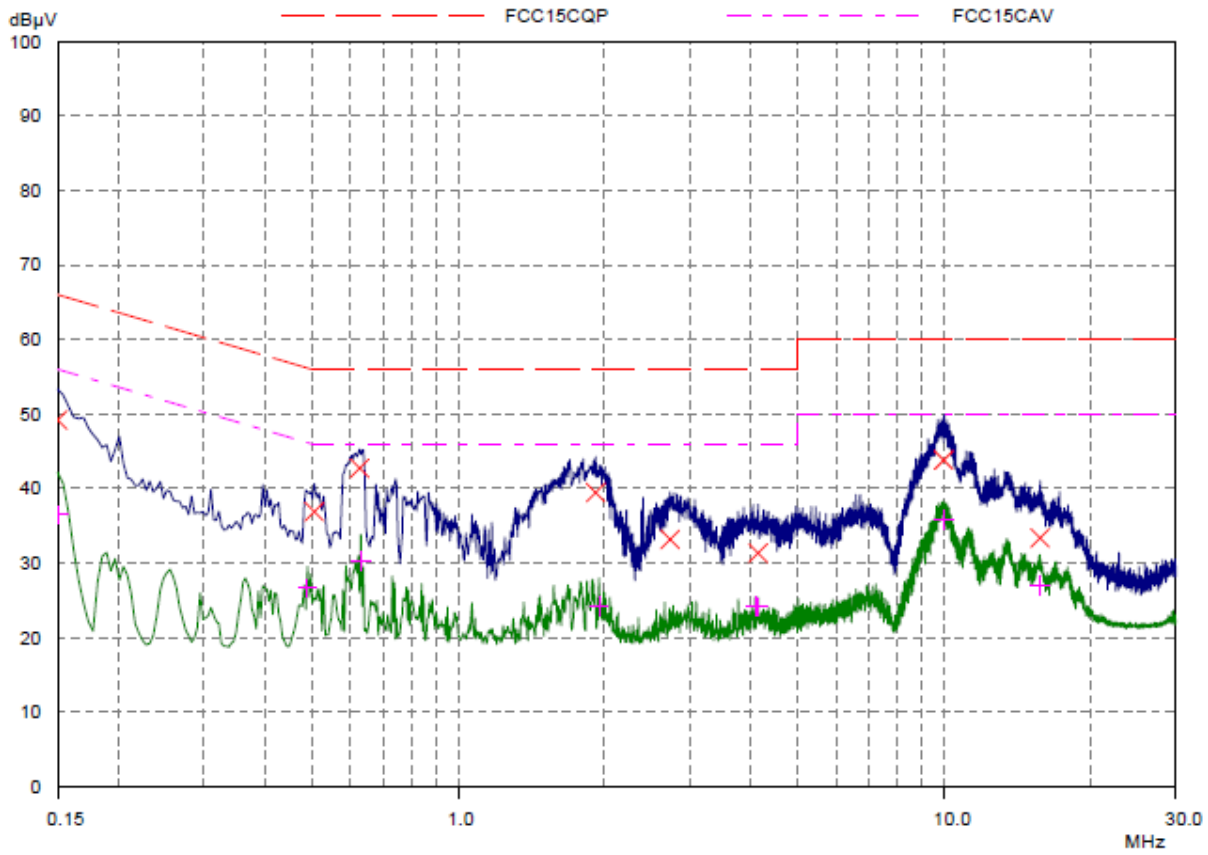
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 2.69$  dB.

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## Test Results:



| Frequency<br>MHz | QP Level<br>dBμV | QP Limit<br>dBμV | QP Delta<br>dB | Phase<br>- | PE<br>- |
|------------------|------------------|------------------|----------------|------------|---------|
| 0.15             | 49.22            | 66.00            | 16.78          | L1         | gnd     |
| 0.50546          | 36.91            | 56.00            | 19.09          | L1         | gnd     |
| 0.62656          | 42.74            | 56.00            | 13.26          | L1         | gnd     |
| 1.91953          | 39.47            | 56.00            | 16.53          | L1         | gnd     |
| 2.72812          | 33.19            | 56.00            | 22.81          | L1         | gnd     |
| 4.14217          | 31.38            | 56.00            | 24.62          | L1         | gnd     |
| 9.98593          | 43.83            | 60.00            | 16.17          | L1         | gnd     |
| 15.76328         | 33.39            | 60.00            | 26.61          | L1         | gnd     |

| Frequency<br>MHz | AV Level<br>dBμV | AV Limit<br>dBμV | AV Delta<br>dB | Phase<br>- | PE<br>- |
|------------------|------------------|------------------|----------------|------------|---------|
| 0.15             | 36.48            | 56.00            | 19.52          | L1         | gnd     |
| 0.48984          | 26.67            | 46.17            | 19.50          | L1         | gnd     |
| 0.63046          | 30.26            | 46.00            | 15.74          | L1         | gnd     |
| 1.95078          | 24.28            | 46.00            | 21.72          | L1         | gnd     |
| 4.08359          | 24.15            | 46.00            | 21.85          | L1         | gnd     |
| 4.14217          | 24.11            | 46.00            | 21.89          | L1         | gnd     |
| 9.97031          | 35.91            | 50.00            | 14.09          | L1         | gnd     |
| 15.73203         | 26.94            | 50.00            | 23.06          | L1         | gnd     |

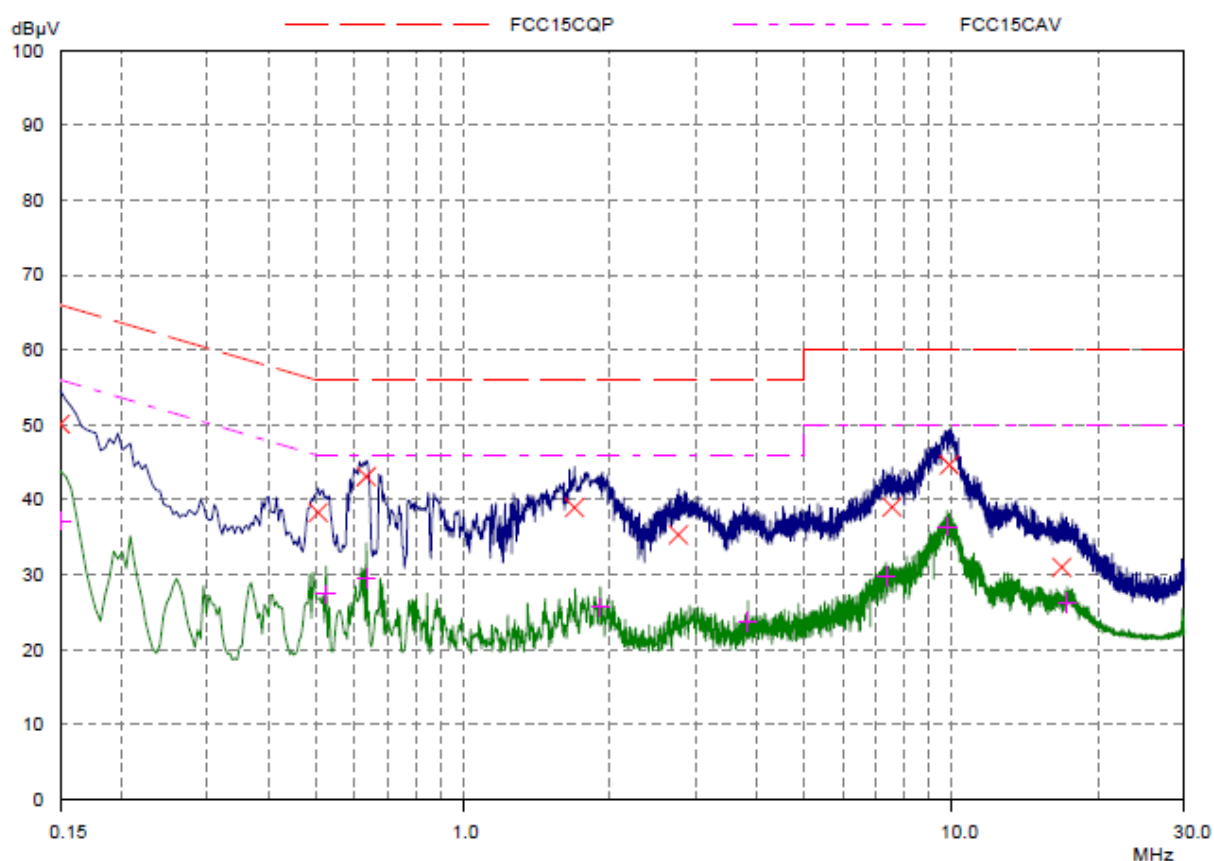
L Line

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| Frequency<br>MHz | QP Level<br>dBμV | QP Limit<br>dBμV | QP Delta<br>dB | Phase<br>- | PE<br>- |
|------------------|------------------|------------------|----------------|------------|---------|
| 0.15             | 50.12            | 66.00            | 15.88          | N          | gnd     |
| 0.50546          | 38.29            | 56.00            | 17.71          | N          | gnd     |
| 0.63437          | 43.10            | 56.00            | 12.90          | N          | gnd     |
| 1.69296          | 38.97            | 56.00            | 17.03          | N          | gnd     |
| 2.76328          | 35.33            | 56.00            | 20.67          | N          | gnd     |
| 7.56796          | 39.04            | 60.00            | 20.96          | N          | gnd     |
| 9.91562          | 44.64            | 60.00            | 15.36          | N          | gnd     |
| 16.8414          | 31.01            | 60.00            | 28.99          | N          | gnd     |

| Frequency<br>MHz | AV Level<br>dBμV | AV Limit<br>dBμV | AV Delta<br>dB | Phase<br>- | PE<br>- |
|------------------|------------------|------------------|----------------|------------|---------|
| 0.15             | 37.20            | 56.00            | 18.80          | N          | gnd     |
| 0.525            | 27.41            | 46.00            | 18.59          | N          | gnd     |
| 0.63437          | 29.59            | 46.00            | 16.41          | N          | gnd     |
| 1.91171          | 25.64            | 46.00            | 20.36          | N          | gnd     |
| 3.83359          | 23.80            | 46.00            | 22.20          | N          | gnd     |
| 7.34921          | 29.70            | 50.00            | 20.30          | N          | gnd     |
| 9.79062          | 36.44            | 50.00            | 13.56          | N          | gnd     |
| 17.27109         | 26.19            | 50.00            | 23.81          | N          | gnd     |

N Line

Conducted Emission from 150 KHz to 30 MHz

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### 3. Main Test Instruments

| No. | Name                                 | Type      | Manufacturer | Serial Number | Calibration Date | Expiration Time | Valid Period |
|-----|--------------------------------------|-----------|--------------|---------------|------------------|-----------------|--------------|
| 01  | Loop Antenna                         | FMZB1516  | SCHWARZBECK  | 237           | 2014-06-29       | 2016-06-28      | 2 years      |
| 02  | EMI Test Receiver                    | ESCS30    | R&S          | 100138        | 2014-12-17       | 2015-12-16      | 1 year       |
| 03  | LISN                                 | ENV216    | R&S          | 101171        | 2014-12-17       | 2015-12-16      | 1 year       |
| 04  | EMI Test Receiver                    | ESCI      | R&S          | 100948        | 2014-05-26       | 2015-05-25      | 1 year       |
| 05  | TRILOG Broadband Antenna             | VULB 9163 | Schwarzbeck  | 9163-201      | 2013-11-25       | 2016-11-24      | 3 years      |
| 06  | Double Ridged Waveguide Horn Antenna | HF907     | R&S          | 100126        | 2012-07-02       | 2015-07-01      | 3 years      |
| 07  | Spectrum Analyzer                    | E4445A    | Agilent      | MY46181146    | 2014-05-26       | 2015-05-25      | 1 year       |
| 08  | Spectrum Analyzer                    | FSV30     | R&S          | 100815        | 2014-12-17       | 2015-12-16      | 1 year       |
| 09  | Standard Gain Horn                   | 3160-09   | ETS-Lindgren | 00102644      | 2012-05-20       | 2015-05-19      | 3 years      |

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

## ANNEX A: EUT photograph



Picture 1-1 Front Side



Picture 1-2 Back Side

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Picture 1-3 Charger

**Picture 1 Constituents of EUT**

## ANNEX B: EUT Appearance and Test Setup

### Test Setup



9kHz-30MHz



30M Hz-1GHz

Picture 2 Radiated Emission Test Setup

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**Picture 3 Conducted Emission Test Setup**