

FCC PART 15C TEST REPORT No. I16N00547-SRD

for

Easy Home Technology Co.,Ltd.

Door Sensor

Model Name: EH-DS-01

with

Hardware Version: 1.0

Software Version: 1.0

FCC ID: 2AIPTEHDS01

Issued Date: Jun 16th, 2016

Note:

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 CTTL.

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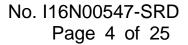
REPORT HISTORY

| Report Number | Revision | Description | Issue Date |
|---------------|----------|-------------|------------|
| I16N00547-SRD | Rev.0 | 1st edition | 2016-06-16 |



CONTENTS

| 1. Tl | EST LABORATORY | 5 |
|-------|--|----|
| 1.1. | TESTING LOCATION | 5 |
| 1.2. | TESTING ENVIRONMENT | 5 |
| 1.3. | PROJECT DATA | 5 |
| 1.4. | SIGNATURE | 5 |
| 2. C | LIENT INFORMATION | 6 |
| 2.1. | APPLICANT INFORMATION | 6 |
| 2.2. | MANUFACTURER INFORMATION | 6 |
| 3. E | QUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) | 7 |
| 3.1. | ABOUT EUT | 7 |
| 3.2. | INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST | 7 |
| 3.3. | INTERNAL IDENTIFICATION OF AE USED DURING THE TEST | 7 |
| 3.4. | GENERAL DESCRIPTION | 7 |
| 4. R | EFERENCE DOCUMENTS | 8 |
| 4.1. | DOCUMENTS SUPPLIED BY THE APPLICANT | 8 |
| 4.2. | REGULATIONS AND STANDARDS | 8 |
| 5. TI | EST RESULTS | 9 |
| 5.1. | SUMMARY OF TEST RESULTS | 9 |
| 5.2. | STATEMENTS | 9 |
| 5.3. | TERMS USED IN THE RESULT TABLE | 9 |
| 5.4. | LABORATORY ENVIRONMENT | 10 |
| 6. Tl | EST FACILITIES UTILIZED | 11 |
| ANNE | X A: MEASUREMENT RESULTS | 12 |
| A.0 | Antenna requirement | 12 |
| A.1 | OCCUPIED 20DB BANDWIDTH | 13 |
| A.2 | OCCUPIED BANDWIDTH | 13 |
| A.3 | RADIATED EMISSIONS | 13 |
| A.3. | 1 Transmitter Spurious Emission - Radiated | 13 |
| ANNE | X B: TEST LAYOUTS | 17 |
| Fig. | 1 OCCUPIED 20DB BANDWIDTH (908.4MHz, 40KBPS) | 17 |
| Fig.: | 2 OCCUPIED 20DB BANDWIDTH (908.42MHz, 9.6kBPS) | 17 |
| Fig.: | 3 OCCUPIED 20DB BANDWIDTH (916MHz, 100KBPS) | 18 |
| Fig. | 4 OCCUPIED BANDWIDTH (908.4MHz, 40KBPS) | 18 |
| Fig. | 5 OCCUPIED BANDWIDTH (908.42MHz, 9.6kBPS) | 19 |
| Fig. | 6 Occupied Bandwidth (916MHz, 100kBps) | 19 |
| Fig. | 7 RADIATED EMISSION (908.4MHz, 40KBPS) | 20 |





| FIG.8 RADIATED EMISSION (908.42MHz, 9.6KBPS) | 20 |
|--|----|
| FIG.9 RADIATED EMISSION (916MHz, 100kBps) | 21 |
| FIG.10 RADIATED SPURIOUS EMISSION (908.4MHz, 40kBps,30MHz-1GHz) | 21 |
| FIG.11 RADIATED SPURIOUS EMISSION (908.42MHz, 9.6kBps,30MHz-1GHz) | 22 |
| FIG.12 RADIATED SPURIOUS EMISSION (916MHz,100kBPS,30MHz-1GHz) | 22 |
| FIG.13 RADIATED SPURIOUS EMISSION (908.4MHz, 40kBps, 1GHz-10GHz) | 23 |
| FIG.14 RADIATED SPURIOUS EMISSION (908.42MHz, 9.6kBps, 1GHz-10GHz) | 23 |
| FIG.15 RADIATED SPURIOUS EMISSION (916MHz,100kBps, 1GHz-10GHz) | 24 |
| ANNEX C: PERSONS INVOLVED IN THIS TESTING | 25 |

1. Test Laboratory

1.1.

Location: CTTL(South Branch)

Address: TCL International E city No. 1001 Zhongshanyuan Road, Nanshan

District, Shenzhen, Guangdong, China 518000

1.2. Testing Environment

Normal Temperature: $15-35^{\circ}$ C Extreme Temperature $-10/+85^{\circ}$ C

Relative Humidity: 20-75%

1.3. Project Data

Testing Start Date: 2016-04-06 Testing End Date: 2016-06-01

1.4. Signature

Au le

(Prepared this test report)

Tang Weisheng

(Reviewed this test report)

Zhang Bojun

(Approvedthis test report)



2. Client Information

2.1. Applicant Information

Company Name: Easy Home Technology Co.,Ltd.

Address: Rm.1609, Shenzhen International Mayor Communication

Center, Shennan Road, Nanshan District, Shenzhen, China

City: Shenzhen
Postal Code: 518000
Country: China

Telephone: 15217761450

Fax: /

2.2. Manufacturer Information

Company Name: Easy Home Technology Co.,Ltd.

Address: Rm.1609, Shenzhen International Mayor Communication

Center, Shennan Road, Nanshan District, Shenzhen, China

City: Shenzhen
Postal Code: 518000
Country: China

Telephone: 15217761450

Fax: /



3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description Door Sensor
Model Name EH-DS-01
Market Name EH-DS-01

Operating Frequency 908.40MHz/908.42MHz/916 MHz

FCC ID 2AIPTEHDS01

3.2. Internal Identification of EUT Used during the Test

Mobile phone identification

EUT ID*IMEIHW VersionSW VersionReceive DateEUT1/1.02016-05-24

3.3. <u>Internal Identification of AE Used during the Test</u>

| AE ID* | Description | SN | Reversion |
|--------|-------------|----|-----------|
| AE1 | / | / | / |

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

3.4. General Description

This is a product supporting ZigBee with 908.40/908.42/916 MHz technologies.

Manuals and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the client.

Manufacturer's declaration: The ZigBee antenna is a spring-load antenna on the PCB. The spring-load antenna has a gain of 2dBi.

^{*}Note: Photographs of EUT are shown in ANNEX A of this test report.

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



4. Reference Documents

4.1. <u>Documents Supplied by the Applicant</u>

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Regulations and Standards

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

| Reference | Title | Version | | |
|----------------|--|----------|--|--|
| CFR 47 Part 15 | Part 15 — Radio Frequency Devices. | Nov,2015 | | |
| | HSubpart C — Intentional RadiatorsH. | | | |
| | § 15.35 Measurement detector functions and bandwidths. | | | |
| | § 15.207 Conducted limits. | | | |
| | § 15.209 Radiated emission limits, general requirements. | | | |
| | § 15.231 Periodic operation in the band 40.66–40.70 MHz | | | |
| | and above 70 MHz | | | |
| | § 15.249 Operation within the bands 902–928 MHz, | | | |
| | 2400-2483.5 MHz,5725-5875 MHZ, and 24.0-24.25 GHz. | | | |
| ANSI C63.10 | American National Standard for Testing Unlicensed | l 0040 | | |
| | Wireless Devices | Jun,2013 | | |



5. Test Results

5.1. Summary of Test Results

| No | Test cases | Standard Sub-clause | Verdict |
|----|--|---------------------|---------|
| 0 | Antenna Requirement | 15.203 | Р |
| 1 | Occupied 20dB Bandwidth | 15.231 | Р |
| 2 | Occupied Bandwidth | 15.231 | Р |
| 3 | Transmitter Spurious Emission - Radiated | 15.209,15.249 | Р |

See ANNEX B and ANNEX C for details.

5.2. Statements

CTTL has evaluated the test cases requested by the applicant/manufacturer as listed in section 5.1 of this report, for the EUT specified in section 3, according to the standards or reference documents listed in section 4.2

5.3. Terms used in the result table

Terms used in Verdict column

| Р | Pass |
|----|---------------|
| NA | Not Available |
| F | Fail |

Abbreviations

| AC | Alternating Current |
|----------|---|
| AFH | Adaptive Frequency Hopping |
| BW | Band Width |
| E.I.R.P. | equivalent isotropical radiated power |
| ISM | Industrial, Scientific and Medical |
| R&TTE | Radio and Telecommunications Terminal Equipment |
| RF | Radio Frequency |
| Тх | Transmitter |



5.4. <u>Laboratory Environment</u>

Semi-anechoic chamber did not exceed following limits along the EMC testing

| Temperature | Min. = 15 °C, Max. = 30 °C |
|-----------------------------------|---|
| Relative humidity | Min. = 35 %, Max. = 60 % |
| Shielding effectiveness | 0.014MHz - 1MHz, >60dB; |
| | 1MHz - 1000MHz, >90dB. |
| Electrical insulation | > 2 MΩ |
| Ground system resistance | < 4Ω |
| Normalised site attenuation (NSA) | $<$ ± 4 dB, 3m/10m distance,from 30 to 1000 MHz |
| Uniformity of field strength | Between 0 and 6 dB, from 80 to 3000 MHz |

Shielded room did not exceed following limits along the EMC testing:

| Temperature | Min. = 15 °C, Max. = 30 °C |
|--------------------------|----------------------------|
| Relative humidity | Min. = 35 %, Max. = 60 % |
| Shielding effectiveness | 0.014MHz - 1MHz, >60dB; |
| | 1MHz - 1000MHz, >90dB. |
| Electrical insulation | > 2 MΩ |
| Ground system resistance | < 4 Ω |

Fully-anechoic chamber did not exceed following limits along the EMC testing

| Temperature | Min. = 15 °C, Max. = 30 °C |
|-----------------------------|------------------------------------|
| Relative humidity | Min. = 35 %, Max. = 60 % |
| Shielding effectiveness | 0.014MHz - 1MHz, >60dB; |
| | 1MHz - 1000MHz, >90dB. |
| Electrical insulation | > 2 MΩ |
| Ground system resistance | < 4Ω |
| Voltage Standing Wave Ratio | ≤6dB, from 1 to 18 GHz,3m distance |
| (VSWR) | |



6. Test Facilities Utilized

Conducted test system

| No. | Equipment | Model | Serial Number | Manufacturer | Calibration Due date | Calibration Period |
|-----|---------------------------|-------|------------------|--------------------|----------------------|-----------------------|
| 1 | Vector Signal Analyzer | FSV40 | 100903 | Rohde & Schwarz | 2017-03-21 | 1 year |

Radiated emission test system

| | F | Na . 1 . 1 | Serial | | Calibration | Calibration |
|-----|-------------------|------------|----------|-----------------|-------------|-------------|
| No. | Equipment | Model | Number | Manufacturer | Due date | Period |
| 1 | Chamber | FACT5-2.0 | 4166 | ETS-Lindgren | 2018-05-13 | 3 years |
| 2 | Test Receiver | ESCI | 100701 | Rohde & Schwarz | 2016-08-10 | 1 year |
| 3 | BiLog Antenna | VULB9163 | 9163 329 | Schwarzbeck | 2017-01-20 | 3 years |
| 4 | Horn Antenna | 3117 | 00066585 | ETS-Lindgren | 2019-03-05 | 3 years |
| 5 | Spectrum Analyser | FSP40 | 100378 | Rohde & Schwarz | 2016-12-18 | 1 year |

Anechoic chamber

Fully anechoic chamber by ETS-Lindgren.



ANNEX A: MEASUREMENT RESULTS

A.0 Antenna requirement

Measurement Limit:

| Standard | Requirement | | | | |
|--------------|--|--|--|--|--|
| | An intentional radiator shall be designed to ensure that no antenna other than that | | | | |
| | furnished by the responsible party shall be used with the device. The use of a | | | | |
| | permanently attached antenna or of an antenna that uses a unique coupling to the | | | | |
| | intentional radiator shall be considered sufficient to comply with the provisions of | | | | |
| | this section. The manufacturer may design the unit so that a broken antenna can | | | | |
| | be replaced by the user, but the use of a standard antenna jack or electrical | | | | |
| FCC CRF Part | connector is prohibited. This requirement does not apply to carrier current devices | | | | |
| 15.203 | or to devices operated under the provisions of §15.211, §15.213, §15.217, | | | | |
| | §15.219, or §15.221. Further, this requirement does not apply to intentional | | | | |
| | radiators that must be professionally installed, such as perimeter protection | | | | |
| | systems and some field disturbance sensors, or to other intentional radiators | | | | |
| | which, in accordance with §15.31(d), must be measured at the installation site. | | | | |
| | However, the installer shall be responsible for ensuring that the proper antenna is | | | | |
| | employed so that the limits in this part are not exceeded. | | | | |

Conclusion: The Directional gains of antenna used for transmitting is 2.0 dBi.

The RF transmitter uses a spring-load antenna.



A.1 Occupied 20dB Bandwidth

Measurement Limit:

| Standard | Limit (kHz) |
|------------------------|-------------|
| FCC 47 CFR Part 15.231 | / |

Measurement Result:

| Channel | Frequency(MHz) | 20dB Bandwidth(kHz) | | conclusion |
|-----------------|----------------|---------------------|--------|------------|
| 908.4(40kbps) | 908.4 | Fig.1 | 82.49 | Р |
| 908.42(9.6kbps) | 908.42 | Fig.2 | 68.31 | Р |
| 916(100kbps) | 916 | Fig.3 | 123.59 | Р |

See ANNEX B for test graphs.

Conclusion: PASS

A.2 Occupied Bandwidth

Measurement Limit:

| Standard | Limit (kHz) | |
|------------------------|-------------|--|
| FCC 47 CFR Part 15.231 | / | |

Measurement Result:

| Channel | Frequency(MHz) | Occupied Bandwidth(kHz) | | conclusion |
|-----------------|----------------|-------------------------|--------|------------|
| 908.4(40kbps) | 908.4 | Fig.4 | 88.57 | Р |
| 908.42(9.6kbps) | 908.42 | Fig.5 | 89.15 | Р |
| 916(100kbps) | 916 | Fig.6 | 108.83 | Р |

See ANNEX B for test graphs.

Conclusion: PASS

A.3 Radiated Emissions

A.3.1 Transmitter Spurious Emission - Radiated

Measurement Limit:

| Standard | Limit |
|----------------------------|-------|
| FCC 47 CFR Part 15.209,249 | / |

Operation within Operation within the bands902–928 MHz, 2400–2483.5 MHz,5725–5875 MHZ, and 24.0–24.25 GHz

(a) Except as provided in paragraph(b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:



| Fundamental frequency | Field strength of fundamental (microvolts/meter) | Field strength of hamonics (microvolts/meter) |
|-----------------------|--|---|
| 902-928 MHz | 50 | 500 |
| 2400-2483.5MHz | 50 | 500 |
| 5725-5875 MHz | 50 | 500 |
| 24.0-24.25 GHz | 250 | 2500 |

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

| Frequency of emission (MHz) | Field strength(µV/m) | Measurement distance(meters) |
|-----------------------------|----------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

| | - | |
|-----------------------|---------------|---------------|
| Frequency of emission | RBW/VBW | Sweep Time(s) |
| (MHz) | | |
| 30-1000 | 120kHz/300kHz | 5 |
| 1000-4000 | 1MHz/3MHz | 15 |
| 4000-18000 | 1MHz/3MHz | 40 |
| 18000-26500 | 1MHz/3MHz | 20 |

Note:

According to the performance evaluation, the radiated emission margin of EUT is over 20dB in the band below 30MHz. Therefore, the measurement starts from 30MHz to tenth harmonic.

The measurement results include the horizontal polarization and vertical polarization measurements.

Measurement Results:

| Mode | Frequency(MHz) | Result | conclusion |
|-----------------|----------------|--------|------------|
| 908.4(40kbps) | 908.4 | Fig.7 | Р |
| 908.42(9.6kbps) | 908.42 | Fig.8 | Р |
| 916(100kbps) | 916 | Fig.9 | Р |



| Mode | Frequency (MHz) | Frequency Range | Test Results | Conclusion |
|-----------------|--------------------|-----------------|--------------|------------|
| 009 4(40khpa) | 908.4 | 30 MHz ~1 GHz | Fig.10 | Р |
| 908.4(40kbps) | | 1 GHz ~10 GHz | Fig.11 | Р |
| 000 42/0 6khna) | 908.42 | 30 MHz ~1 GHz | Fig.12 | Р |
| 908.42(9.6kbps) | | 1 GHz ~10GHz | Fig.13 | Р |
| 016(100khna) | 916 | 30 MHz ~1 GHz | Fig.14 | Р |
| 916(100kbps) | | 1 GHz ~10GHz | Fig.15 | Р |

908.4(40kbps) (1-10GHz)

| Frequency | MaxPeak-ClearWrite | Polarization | Corr. | Margin | Limit |
|-------------|--------------------|--------------|-------|--------|----------|
| (MHz) | (dBµV/m) | | (dB) | (dB) | (dBµV/m) |
| 8175.625000 | 48.9 | Н | 6.7 | 25.1 | 74.0 |
| 8602.625000 | 48.5 | V | 7.1 | 25.5 | 74.0 |
| 8762.750000 | 48.4 | Н | 7.2 | 25.6 | 74.0 |
| 9163.500000 | 49.4 | V | 7.7 | 24.6 | 74.0 |
| 9422.500000 | 49.0 | V | 8.0 | 25.0 | 74.0 |
| 9969.375000 | 49.4 | Н | 8.6 | 24.6 | 74.0 |

| Frequency | Average-ClearWrite | Polarization | Corr. | Margin | Limit |
|-------------|--------------------|--------------|-------|--------|----------|
| (MHz) | (dBµV/m) | | (dB) | (dB) | (dBµV/m) |
| 2725.250000 | 40.9 | V | 2.1 | 13.1 | 54.0 |
| 8175.625000 | 40.9 | Н | 6.7 | 13.1 | 54.0 |
| 8663.000000 | 37.0 | Н | 7.2 | 17.0 | 54.0 |
| 9271.125000 | 36.9 | Н | 7.9 | 17.1 | 54.0 |
| 9425.125000 | 36.9 | Н | 8.0 | 17.1 | 54.0 |
| 9993.000000 | 37.5 | V | 8.6 | 16.5 | 54.0 |

908.42(9.6kbps) (1-10GHz)

| Frequency | MaxPeak-ClearWrite | Polarization | Corr. | Margin | Limit |
|-------------|--------------------|--------------|-------|--------|----------|
| (MHz) | (dBµV/m) | | (dB) | (dB) | (dBµV/m) |
| 8145.000000 | 48.4 | Н | 6.6 | 25.6 | 74.0 |
| 8645.500000 | 49.1 | Н | 7.1 | 24.9 | 74.0 |
| 8740.875000 | 48.9 | Н | 7.2 | 25.1 | 74.0 |
| 9217.750000 | 49.3 | Н | 7.8 | 24.7 | 74.0 |
| 9400.625000 | 49.2 | V | 8.0 | 24.8 | 74.0 |
| 9967.625000 | 49.5 | Н | 8.6 | 24.5 | 74.0 |



| Frequency (MHz) | Average-ClearWrite (dBµV/m) | Polarization | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|--------------------|-----------------------------|--------------|---------------|----------------|-------------------|
| 2725.250000 | 40.0 | Н | 2.1 | 14.0 | 54.0 |
| 8175.625000 | 40.3 | V | 6.7 | 13.7 | 54.0 |
| 8648.125000 | 37.1 | V | 7.1 | 16.9 | 54.0 |
| 9279.000000 | 37.5 | V | 7.9 | 16.5 | 54.0 |
| 9420.750000 | 37.1 | V | 8.0 | 16.9 | 54.0 |
| 9993.000000 | 38.1 | V | 8.6 | 15.9 | 54.0 |

916(100kbps) (1-10GHz)

| Frequency | MaxPeak-ClearWrite | Polarization | Corr. | Margin | Limit |
|-------------|--------------------|--------------|-------|--------|----------|
| (MHz) | (dBµV/m) | | (dB) | (dB) | (dBµV/m) |
| 8175.625000 | 49.0 | V | 6.7 | 25.0 | 74.0 |
| 8656.875000 | 50.2 | V | 7.2 | 23.8 | 74.0 |
| 8768.875000 | 48.7 | V | 7.3 | 25.3 | 74.0 |
| 9303.500000 | 49.2 | V | 7.9 | 24.8 | 74.0 |
| 9419.875000 | 49.0 | Н | 8.0 | 25.0 | 74.0 |
| 9769.000000 | 49.7 | V | 8.4 | 24.3 | 74.0 |

| Frequency (MHz) | Average-ClearWrite (dBµV/m) | Polarization | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|--------------------|-----------------------------|--------------|---------------|----------------|-------------------|
| 2725.250000 | 38.4 | V | 2.1 | 15.6 | 54.0 |
| 8175.625000 | 41.7 | V | 6.7 | 12.3 | 54.0 |
| 8649.875000 | 37.1 | V | 7.1 | 16.9 | 54.0 |
| 9272.000000 | 37.6 | V | 7.9 | 16.4 | 54.0 |
| 9429.500000 | 37.2 | V | 8.0 | 16.8 | 54.0 |
| 9980.750000 | 38.0 | V | 8.6 | 16.0 | 54.0 |

See ANNEX B for test graphs.

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

 $\ensuremath{P_{\text{Mea}}}$ is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= P_{Mea} + $A_{Rpl=}$ P_{Mea} +Cable Loss+Antenna Factor



ANNEX B: TEST LAYOUTS

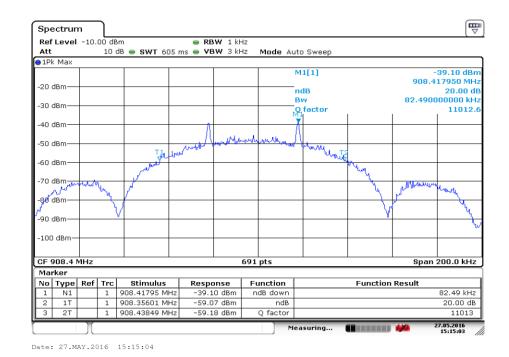


Fig.1 Occupied 20dB Bandwidth (908.4MHz, 40kbps)

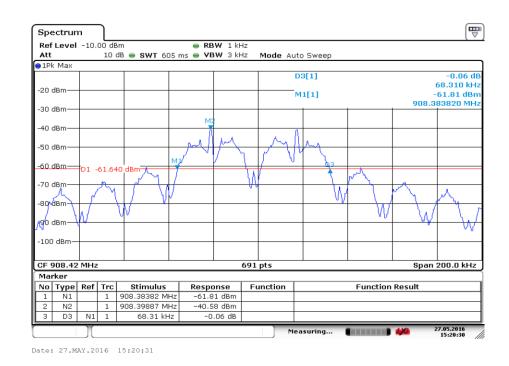


Fig.2 Occupied 20dB Bandwidth (908.42MHz, 9.6kbps)



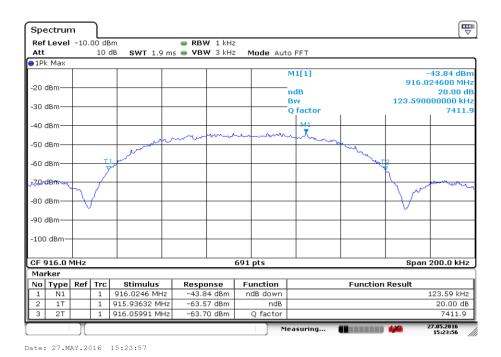


Fig.3 Occupied 20dB Bandwidth (916MHz, 100kbps)

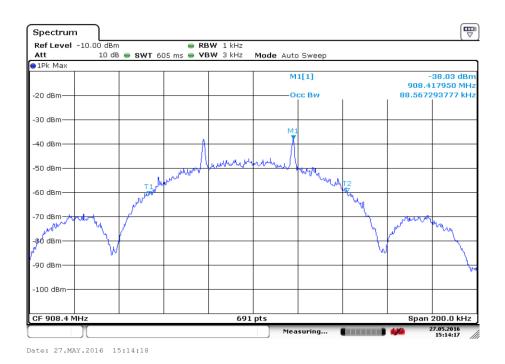
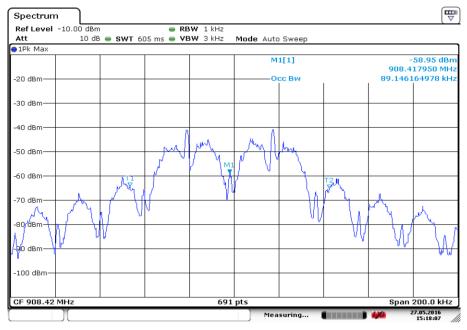


Fig.4 Occupied Bandwidth (908.4MHz, 40kbps)





Date: 27.MAY.2016 15:18:07

Fig.5 Occupied Bandwidth (908.42MHz, 9.6kbps)



Date: 27.MAY.2016 15:23:32

Fig.6 Occupied Bandwidth (916MHz, 100kbps)





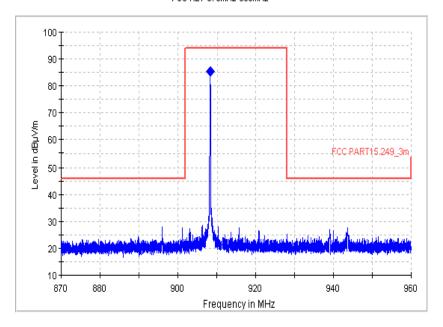


Fig.7 Radiated Emission (908.4MHz, 40kbps)



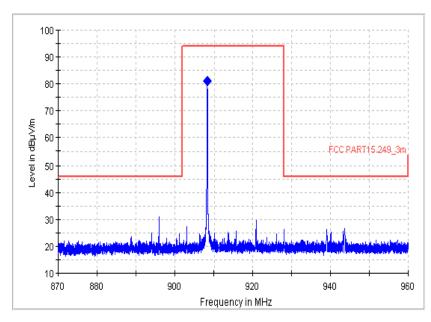


Fig.8 Radiated Emission (908.42MHz, 9.6kbps)





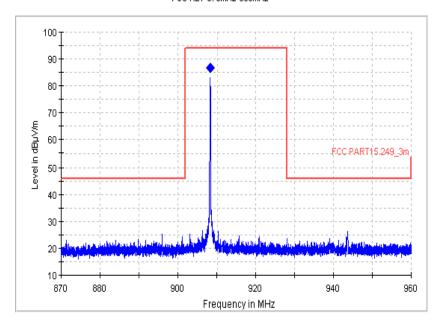


Fig.9 Radiated Emission (916MHz, 100kbps)



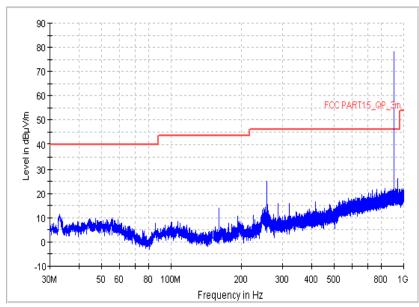


Fig.10 Radiated Spurious Emission (908.4MHz, 40kbps,30MHz-1GHz)



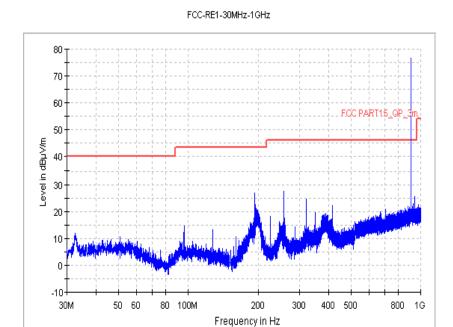


Fig.11 Radiated Spurious Emission (908.42MHz, 9.6kbps,30MHz-1GHz)

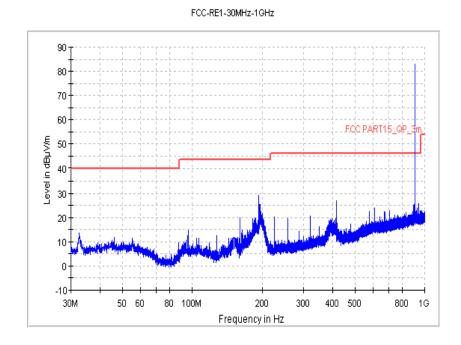


Fig.12 Radiated Spurious Emission (916MHz,100kbps,30MHz-1GHz)



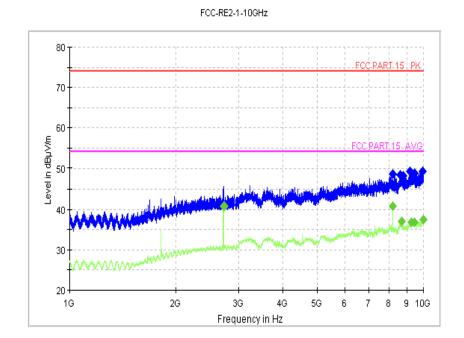


Fig.13 Radiated Spurious Emission (908.4MHz, 40kbps, 1GHz-10GHz)

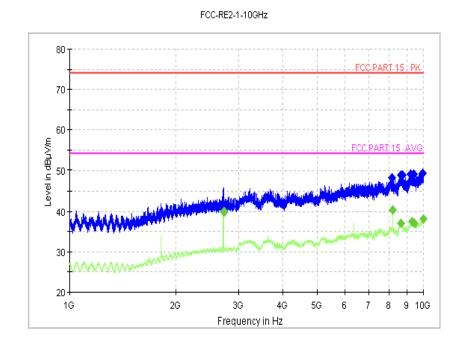


Fig.14 Radiated Spurious Emission (908.42MHz, 9.6kbps, 1GHz-10GHz)



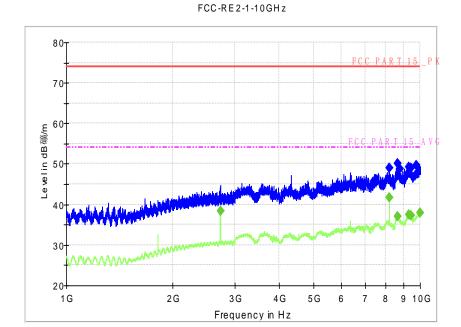


Fig.15 Radiated Spurious Emission (916MHz,100kbps, 1GHz-10GHz)



ANNEX C: Persons involved in this testing

| Test Name | Tester | | |
|---|----------------------|--|--|
| Occupied 20dB Bandwidth | Xu Ye, Tang Weisheng | | |
| Maximum Peak Output Power | Xu Ye, Tang Weisheng | | |
| Peak Power Spectral Density | Xu Ye, Tang Weisheng | | |
| Occupied 6dB Bandwidth | Xu Ye, Tang Weisheng | | |
| Band Edges Compliance | Xu Ye, Tang Weisheng | | |
| Transmitter Spurious Emission - Conducted | Xu Ye, Tang Weisheng | | |
| Transmitter Spurious Emission - Radiated | Xu Ye, Tang Weisheng | | |
| AC Powerline Conducted Emission | Xu Ye, Tang Weisheng | | |

END OF REPORT