



Shenzhen Certification Technology Service Co., Ltd
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China.

TEST REPORT

FCC ID: 2ABXP-GPS

Applicant : KLEMA FLORIDA INTERNATIONAL L.L.C.
Address : 4960 NW, 165th Street, Unit 9B, Miami, FL 33014, U.S.A.

Equipment under Test (EUT):

Name : GPS CAR ALARM
Model : GPS Car Alarm, Proximity Immobilizer, Car Dealer Top Alarm,
Diamante Top Alarm, Elegant Top Alarm, Elite Top Alarm,
Upgrade Top Alarm, Central Locking System, Parking Sensor,
Keyless entry System

Standards : FCC PART 15, SUBPART C : 2012 (Section 15.231)
Report No. : CST-TCB131230007
Date of Test : February 14-20, 2014
Date of Issue : February 20, 2014

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

- In the configuration tested, the EUT complied with the standards specified above
-

Authorized Signature

(Mark Zhu)
General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

TABLE OF CONTENT

| Description | Page |
|---|-------------|
| 1 General Information ----- | 3 |
| 1.1 Description of Device (EUT)----- | 3 |
| 1.2 Description of Test Facility----- | 3 |
| 2 EMC Equipment List ----- | 4 |
| 3 Test Procedure----- | 5 |
| 4 Summary of Measurement ----- | 6 |
| 4.1 Summary of test result ----- | 6 |
| 4.2 Block Diagram ----- | 6 |
| 4.3 Assistant equipment used for test----- | 6 |
| 4.4 Test Conditions----- | 7 |
| 4.5 Measurement Uncertainty (95% confidence levels, k=2)----- | 7 |
| 5 Radiation Emission----- | 8 |
| 5.1 Radiation Emission Limits(15.209&231)----- | 8 |
| 5.2 Test Setup----- | 8 |
| 5.3 Test Procedure----- | 10 |
| 5.4 Test Equipment Setting For emission test. ----- | 11 |
| 5.5 Test Condition----- | 11 |
| 5.6 Test Result ----- | 11 |
| 6 POWER LINE CONDUCTED EMISSION ----- | 16 |
| 6.1 Conducted Emission Limits(15.209)----- | 16 |
| 6.2 Test Setup----- | 16 |
| 6.3 Test Procedure----- | 17 |
| 6.4 Test Results----- | 17 |
| 7 Occupied bandwidth ----- | 18 |
| 7.1 Test limit ----- | 18 |
| 7.2 Method of measurement ----- | 18 |
| 7.3 Test Setup----- | 18 |
| 7.4 Test Results----- | 18 |
| 8 Transmission time ----- | 20 |
| 8.1 Test limit ----- | 20 |
| 8.2 Method of measurement ----- | 20 |
| 8.3 Test Setup----- | 20 |
| 8.4 Test Results----- | 20 |
| 9 Band Edge Check ----- | 22 |
| 9.1 Test limit ----- | 22 |
| 9.2 Test Procedure----- | 22 |
| 9.3 Test Setup----- | 22 |
| 9.4 Test Result ----- | 22 |
| 10 Antenna Requirement ----- | 23 |
| 10.1 Standard Requirement----- | 23 |
| 10.2 Antenna Connected Construction----- | 23 |
| 10.3 Result----- | 23 |
| 11 Photographs of Test Setup ----- | 24 |
| 12 Photographs of EUT----- | 25 |

1 General Information

1.1 Description of Device (EUT)

Trade Name : N/A

EUT : GPS CAR ALARM

Model No. : GPS Car Alarm

DIFF : Only different in Model No, the other the same.

Type of Antenna : PCB antenna, Max Gain 0dBi.

Operation Frequency : 315 MHz

Channel number : 1

Modulation type : ASK

Power Supply : DC 6V Supply by battery

Rated PF
output Power : 73.54 dBuV (Peak detector)

Applicant : KLEMA FLORIDA INTERNATIONAL L.L.C.

Address : 4960 NW, 165th Street, Unit 9B, Miami, FL 33014, U.S.A.

Manufacturer : KLEMA FLORIDA INTERNATIONAL L.L.C.

Address : 4960 NW, 165th Street, Unit 9B, Miami, FL 33014, U.S.A.

1.2 Description of Test Facility

Shenzhen Certification Technology Service Co., Ltd.
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
FCC Registered No.:197647

2 EMC Equipment List

| Equipment | Manufacture | Model No. | Serial No. | Last cal. | Cal Interval |
|---------------------|--------------|-------------|----------------------|-------------|--------------|
| 3m Semi-Anechoic | ETS-LINDGREN | N/A | SEL0017 | Nov 16, 13 | 1 Year |
| Spectrum analyzer | Agilent | E4407B | MY49510055 | Oct. 30, 13 | 1 Year |
| Receiver | R&S | ESCI | 101165 | Oct. 30, 13 | 1 Year |
| Bilog Antenna | SCHWARZBECK | VULB 9168 | 9168-438 | Mar.12, 13 | 1 Year |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D(1201) | Mar.12, 13 | 1 Year |
| Active Loop Antenna | Beijing Daze | ZN30900A | SEL0097 | Mar.12, 13 | 1 Year |

3 Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 u H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB= 44.46 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

4 Summary of Measurement

4.1 Summary of test result

| Test Item | Test Requirement | Stanadard Paragraph | Result |
|---------------------|--------------------|-----------------------|----------------|
| Spurious Emission | FCC PART 15: 2012 | Section 15.231&15.209 | Compliance |
| Conduction Emission | FCC PART 15: 2012 | Section 15.207 | Not applicable |
| Occupied bandwidth | FCC PART 15: 2012 | Section 15.231 | Compliance |
| Transmission time | FCC PART 15: 2012 | Section 15.231 | Compliance |
| Band Edge | FCC PART 15: 2012 | Section 15.231 | Not applicable |
| Antenna Requirement | FCC PART 15 : 2012 | Section 15.203 | Compliance |

Note: All buttons of the EUT have been tested and only worst case reported. The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The new battery be used during Test)

1. we also estimated location of the XYZ 3 axis, the X axis is the worst mode.

4.2 Block Diagram



4.3 Assistant equipment used for test

Description : N/A
Manufacturer : N/A
Model No. : N/A

4.4 Test Conditions

| | |
|-------------------|-----------|
| Temperature range | 21-25℃ |
| Humidity range | 40-75% |
| Pressure range | 86-106kPa |

4.5 Measurement Uncertainty (95% confidence levels, k=2)

| Item | MU | Remark |
|--|--------------------|-------------|
| Uncertainty for Power point Conducted Emissions Test | 2.50dB | |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz) | 2.13 dB | Polarize: V |
| | 2.57dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz) | 3.04dB | Polarize: V |
| | 3.02dB | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz) | 3.84dB | Polarize: H |
| | 3.56dB | Polarize: V |
| Uncertainty for radio frequency | 1×10^{-9} | |
| Uncertainty for temperature | 0.2℃ | |
| Uncertainty for humidity | 3% | |
| Uncertainty for DC and low frequency voltages | 0.06% | |

5 Radiation Emission

5.1 Radiation Emission Limits(15.209&231)

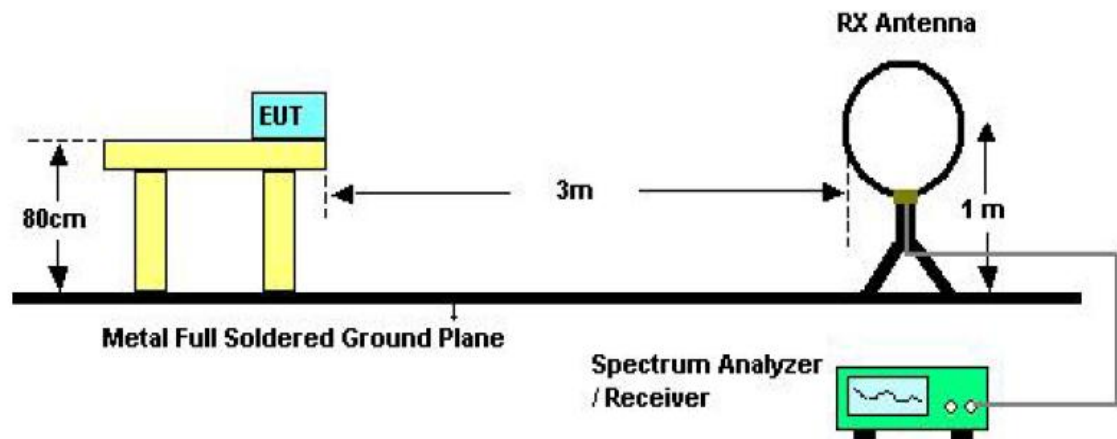
| Frequency (MHz) | Field Strength Limits at 3 metres (watts, e.i.r.p.) | | |
|----------------------|--|-----------|----------------------------|
| | uV/m | dB uV/m | Measurement distance(m) |
| 0.009-0.490 | 2400/F(kHz) | XX | 300 |
| 0.490-1.705 | 24000/F(kHz) | XX | 30 |
| 1.705-30 | 30 | 29.5 | 30 |
| 30~88 | 100(3nW) | 40 | 3 |
| 88~216 | 150(6.8nW) | 43.5 | 3 |
| 216~960 | 200(12nW) | 46 | 3 |
| Above960 | 500(75nW) | 54 | 3 |
| Carrier frequency | | 80.8(AV) | 3 |
| Carrier frequency | | 100.8(PK) | 3 |

NOTE:

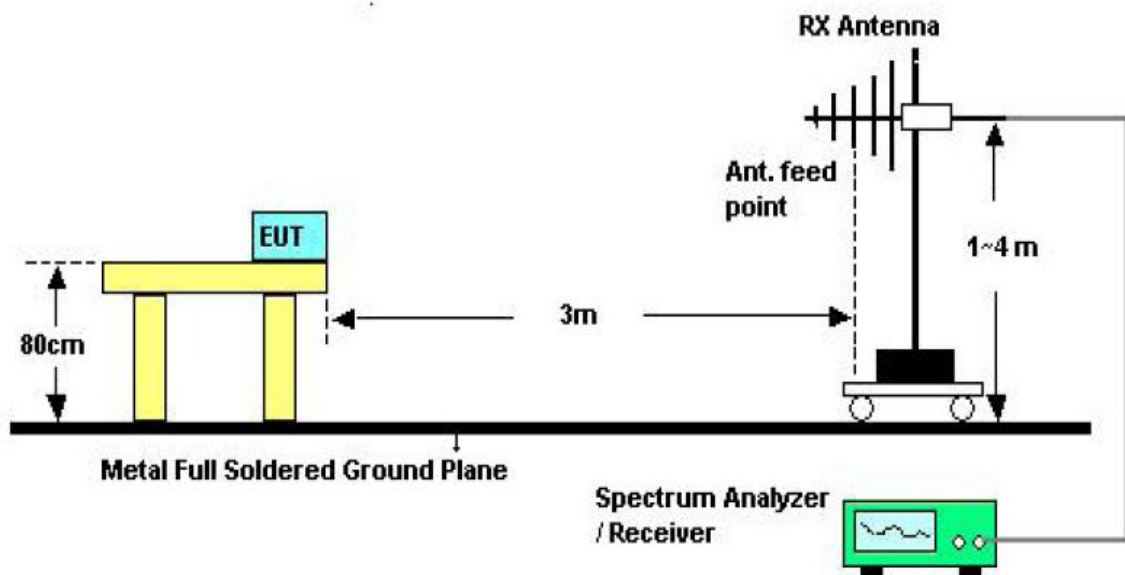
- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(Uv/m)

5.2 Test Setup

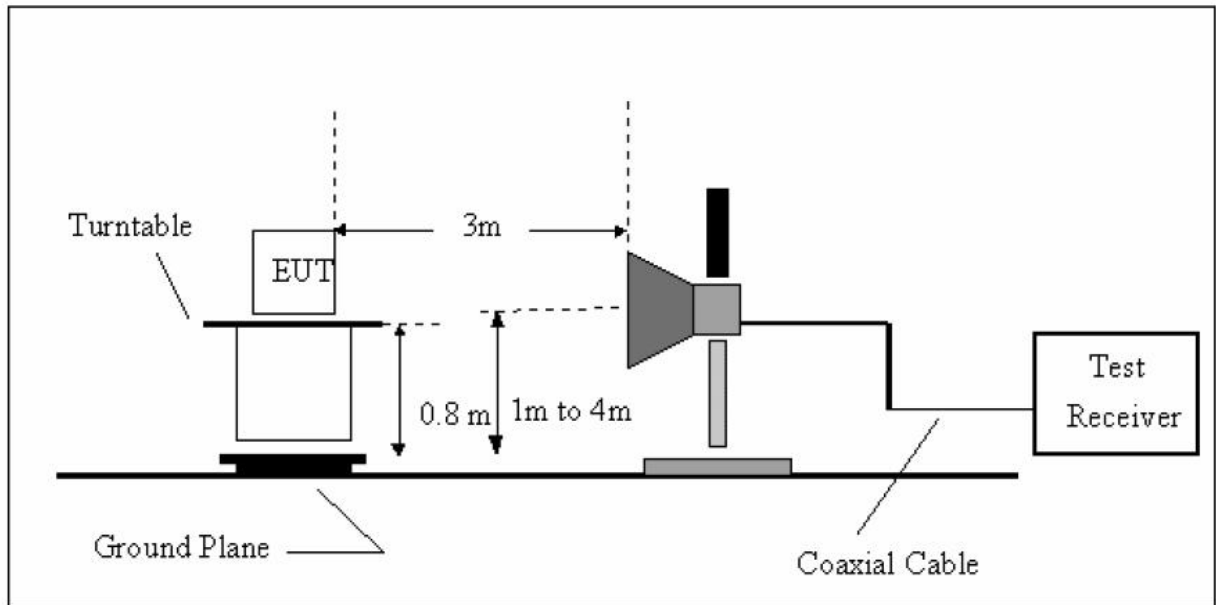
See the next page.



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground, The table was rotated 360 degrees to determine the position of the highest radiation
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked, and then Quasi Peak Detector mode remeasured
- If Peak value complies with QP limit Below 1GHz, The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- For the actual test configuration, please see the test setup photo.

5.4 Test Equipment Setting For emission test.

| | | |
|--------------|------------|------------|
| 9KHz~150KHz | RBW 200Hz | VBW1KHz |
| 150KHz~30MHz | RBW 9KHz | VBW 30KHz |
| 30MHz~1GHz | RBW 120KHz | VBW 300KHz |
| Above 1GHz | RBW 1MHz | VBW 3MHz |

5.5 Test Condition

Continual Transmitting in maximum power(The new battery be used during Test)

5.6 Test Result

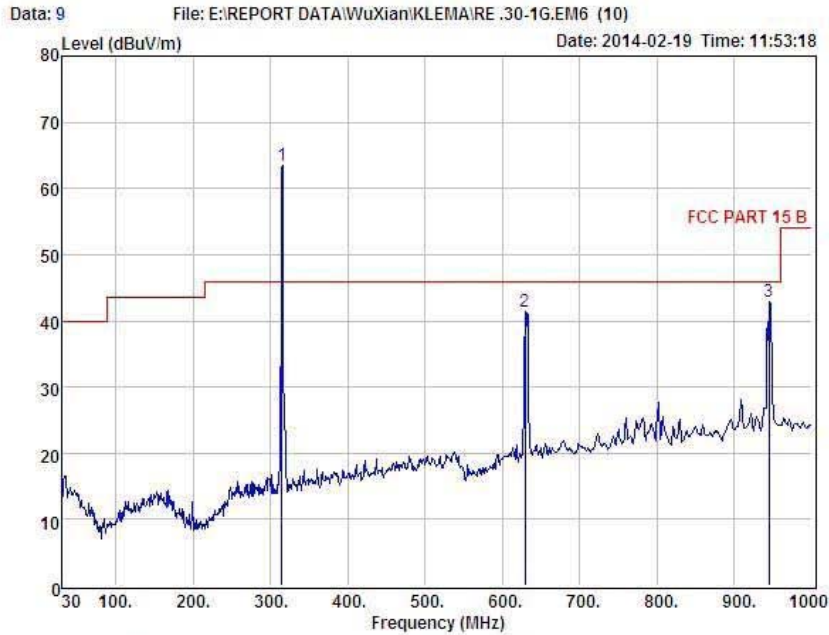
We have scanned the 10th harmonic from 9KHz to the EUT.
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: **PASS**

Note: The amplitude of spurious emissions which are
attenuated by more than 20dB below the permissible value has no need to be reported
.



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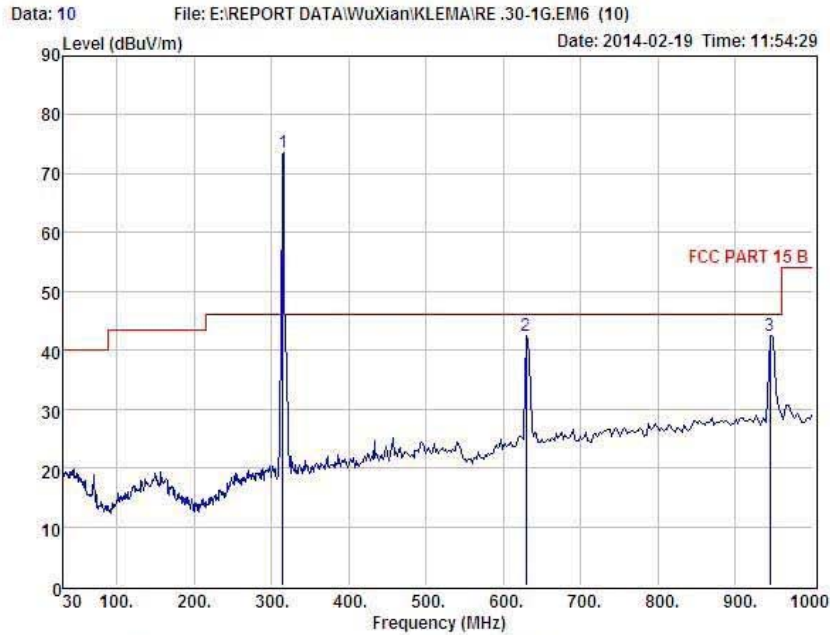
Condition : FCC PART 15 B 3m POL: VERTICAL
EUT : GPS CAR ALARM
Model No : GPS Car Alarm
Test Mode : 315MHz
Power : DC 6.0V
Test Engineer : Store
Remark :
Temp : 25.2°C
Hum : 56%

| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 315.00 | 73.96 | 13.19 | 24.22 | 0.57 | 63.50 | 46.00 | 17.50 | Peak |
| 2 | 629.46 | 47.39 | 19.85 | 25.82 | 0.90 | 41.32 | 46.00 | -4.68 | Peak |
| 3 | 944.71 | 45.19 | 22.10 | 25.62 | 1.23 | 42.90 | 46.00 | -3.10 | Peak |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15 B 3m POL: HORIZONTAL
EUT : GPS CAR ALARM
Model No : GPS Car Alarm
Test Mode : 315MHz
Power : DC 6.0V
Test Engineer : Store
Remark :
Temp : 25.2°C
Hum : 56%

| Item | Freq MHz | Read Level dBuV | Antenna Factor dB | Preamp Factor dB | Cable Loss dB | Level dBuV | Limit dBuV | Margin dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------|---------------------|---------------|---------------|----------------|--------|
| 1 | 315.00 | 84.00 | 13.19 | 24.22 | 0.57 | 73.54 | 46.00 | 27.54 | Peak |
| 2 | 629.46 | 48.55 | 18.85 | 25.82 | 0.90 | 42.48 | 46.00 | -3.52 | Peak |
| 3 | 944.71 | 44.72 | 22.10 | 25.62 | 1.23 | 42.43 | 46.00 | -3.57 | Peak |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Notes: Above is Below 1GHz test data

| | | | |
|--------------------|---------------|--------------------------|-------------------------|
| EUT | GPS CAR ALARM | Model Name | GPS Car Alarm |
| Temperature | 25°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 6V Supply by battery |
| Test Mode | TX | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remarks |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|---------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1307.52 | V | 52.60 | --- | -10.84 | 41.76 | --- | 74.00 | 54.00 | -12.24 | Peak |
| 1729.17 | V | 51.70 | --- | -9.53 | 42.17 | --- | 74.00 | 54.00 | -11.83 | Peak |
| 2859.59 | V | 47.69 | --- | -5.87 | 41.82 | --- | 74.00 | 54.00 | -12.18 | Peak |
| 3711.20 | V | 46.59 | --- | -4.24 | 42.35 | --- | 74.00 | 54.00 | -11.65 | Peak |
| N/A | | | | | | | | | | |

| | | | |
|--------------------|---------------|--------------------------|-------------------------|
| EUT | GPS CAR ALARM | Model Name | GPS Car Alarm |
| Temperature | 25°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 6V Supply by battery |
| Test Mode | TX | | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs | | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remarks |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|---------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | | | | |
| 1304.26 | H | 52.81 | --- | -10.84 | 41.97 | --- | 74.00 | 54.00 | -12.03 | Peak |
| 1727.04 | H | 50.12 | --- | -9.53 | 40.59 | --- | 74.00 | 54.00 | -13.41 | Peak |
| 3197.32 | H | 47.96 | --- | -5.52 | 42.44 | --- | 74.00 | 54.00 | -11.56 | Peak |
| 4017.49 | H | 44.76 | --- | -2.93 | 41.83 | --- | 74.00 | 54.00 | -12.17 | Peak |
| N/A | | | | | | | | | | |

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

Radiated Emissions Result of Inside band (315MHz)

| | | | |
|--------------------|---------------|-----------------------------|-------------------------|
| EUT | GPS CAR ALARM | Model Name | GPS Car Alarm |
| Temperature | 25°C | Relative Humidity | 56% |
| Pressure | 960hPa | Test voltage | DC 6V Supply by battery |
| Test Mode | TX | Antenna polarization | Horizontal/Vertical |

| Channel (315MHz) | | | | | | | | | |
|------------------|----------------|-----------------|-------------------------|---------------------|-------------------------|-------------------------|-----------------------------|-----------------|--------------|
| Fre. MHz | Plority H/V | Reading dBuV | Antenna Factor dB | Cable Loss dB | Amplifier Gain dB | Correct Factor dB | Measure Result dBuV/m | Limit dBuV/m | Margin dB |
| 315 | H | 84.00 (PK) | 13.19 | 0.57 | 24.22 | -10.46 | 73.54 | 100.8 (PK) | -27.26 |
| 315 | H | 84.00 (PK) | 13.19 | 0.57 | 24.22 | -10.46 | 73.54 | 80.8 (AV) | -7.26 |
| | H | -- | -- | -- | -- | -- | -- | -- | -- |
| 315 | V | 73.96 (PK) | 13.19 | 0.57 | 24.22 | -10.46 | 63.50 | 100.8 (PK) | -37.30 |
| 315 | V | 73.96 (PK) | 13.19 | 0.57 | 24.22 | -10.46 | 63.50 | 80.8 (AV) | -17.30 |
| -- | V | -- | -- | -- | -- | -- | -- | -- | -- |

Notes: 1 --Means other frequency and mode comply with standard requirements and at least have 20dB margin.

Correct Factor=Cable Loss+Antenna Factor-Amplifier Gain

Measurement Result=Reading + Correct Factor

Margin=Measurement Result-Limit

2 –Spectrum setting:

a. Peak setting 30MHz-1GHz, RBW=120KHz,VBW=300KHz.

b. AV setting 30MHz-1GHz, RBW=1MHz,VBW=10Hz.

6 POWER LINE CONDUCTED EMISSION

6.1 Conducted Emission Limits(15.209)

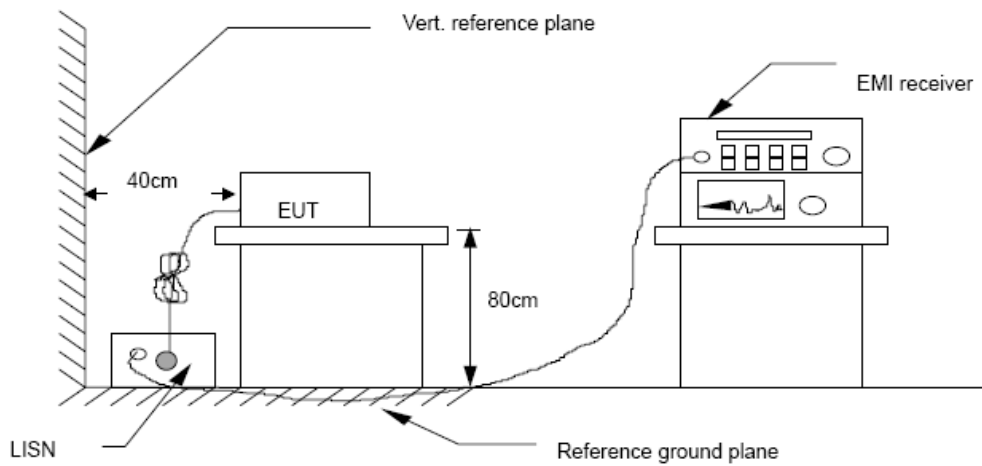
| Frequency MHz | Limits dB(μ V) | |
|------------------|---------------------|---------------|
| | Quasi-peak Level | Average Level |
| 0.15 -0.50 | 66 -56* | 56 - 46* |
| 0.50 -5.00 | 56 | 46 |
| 5.00 -30.00 | 60 | 50 |

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

6.2 Test Setup



6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

6.4 Test Results

EUT power supply by battery, so the test not applicable.

7 Occupied bandwidth

7.1 Test limit

Please refer section 15.231

According to §15.231(C), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.

7.2 Method of measurement

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver RBW set 30KHz, VBW set 30KHz, Sweep time set auto.

7.3 Test Setup

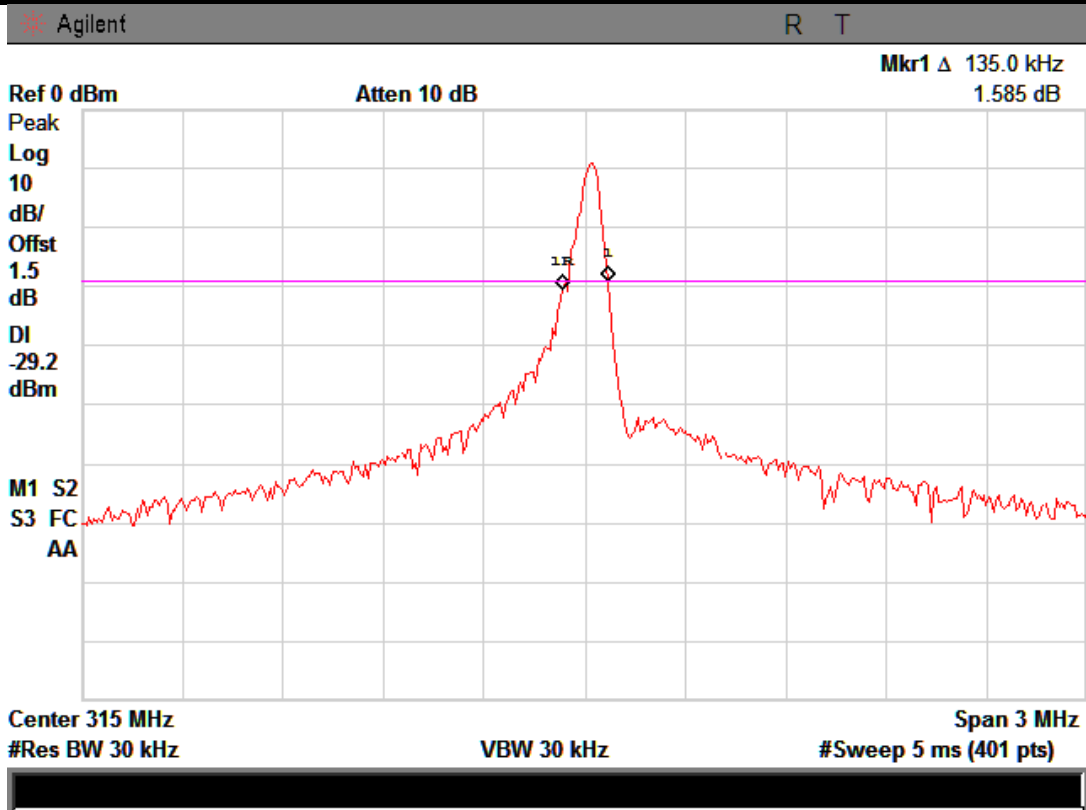


7.4 Test Results

PASS.

Detailed information please see the following page.

| Frequency | Test Result | Limit | Result |
|-----------|-------------|----------|--------|
| 315.00MHz | 135.0KHz | <1.08MHz | Pass |



8 Transmission time

8.1 Test limit

Please refer section 15.231

According to §15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

According to §15.231(a)(2), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

8.2 Method of measurement

7.2.1. Place the EUT on the table and set it in transmitting mode.

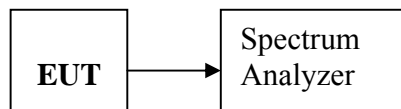
7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set spectrum analyzer Center=315MHz, Span = 0MHz, Sweep = 5s.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz,

7.2.5. Max hold, view and count how many channel in the band.

8.3 Test Setup



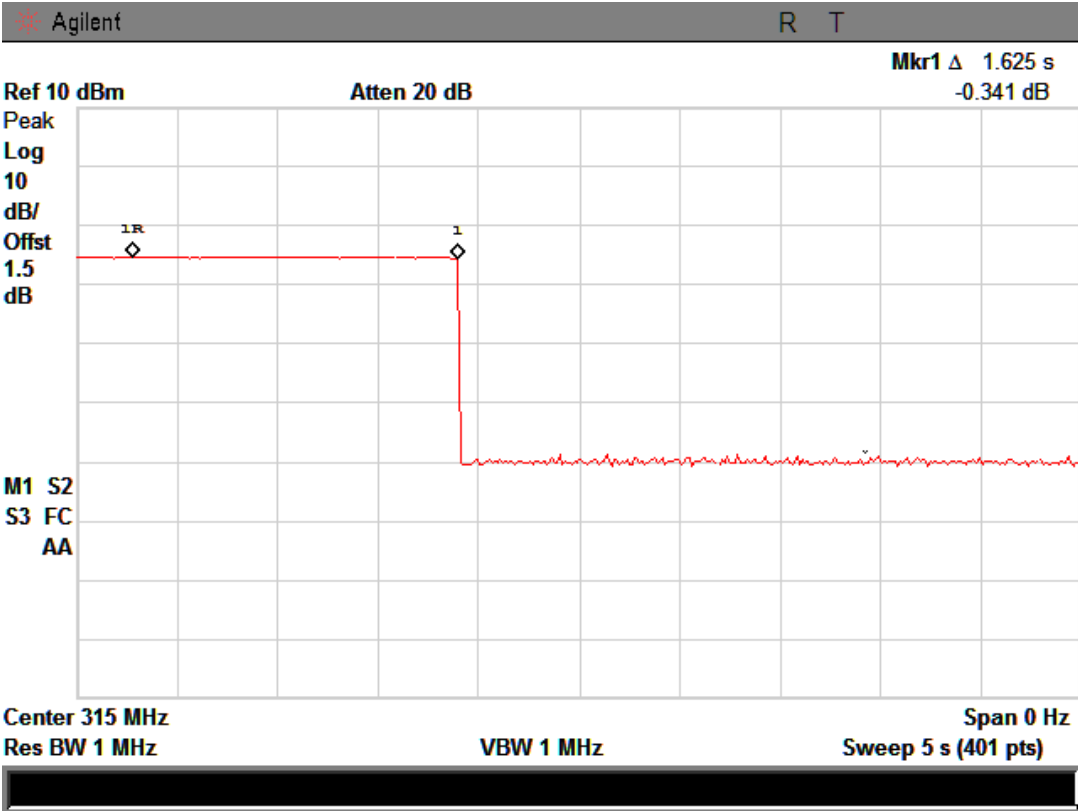
8.4 Test Results

PASS.

Detailed information please see the following page.

| Frequency | Test Result | Limit | Result |
|-----------|-------------|-------|--------|
| 315.00MHz | 1.625s | < 5s | Pass |

After Release the button, EUT emission Continue 1.625 seconds



9 Band Edge Check

9.1 Test limit

Please refer section 15.231 and section 15.205.

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 Section 15.209, whichever is the lesser attenuation.

9.2 Test Procedure

- 11.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 11.2.2 Turning to Low and High frequency, then reduced 50dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency.
- 11.2.3 Check the spurious emissions out of band.
- 11.2.4 RBW, VBW Setting, please see the following test plot.

9.3 Test Setup

Same to 5.2

9.4 Test Result

The Restricted bands is 399.9-410MHz and 608-614MHz, The EUT operation frequency is 315MHz, The test is not applicable.

10 Antenna Requirement

10.1 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 connector is prohibited.

10.2 Antenna Connected Construction

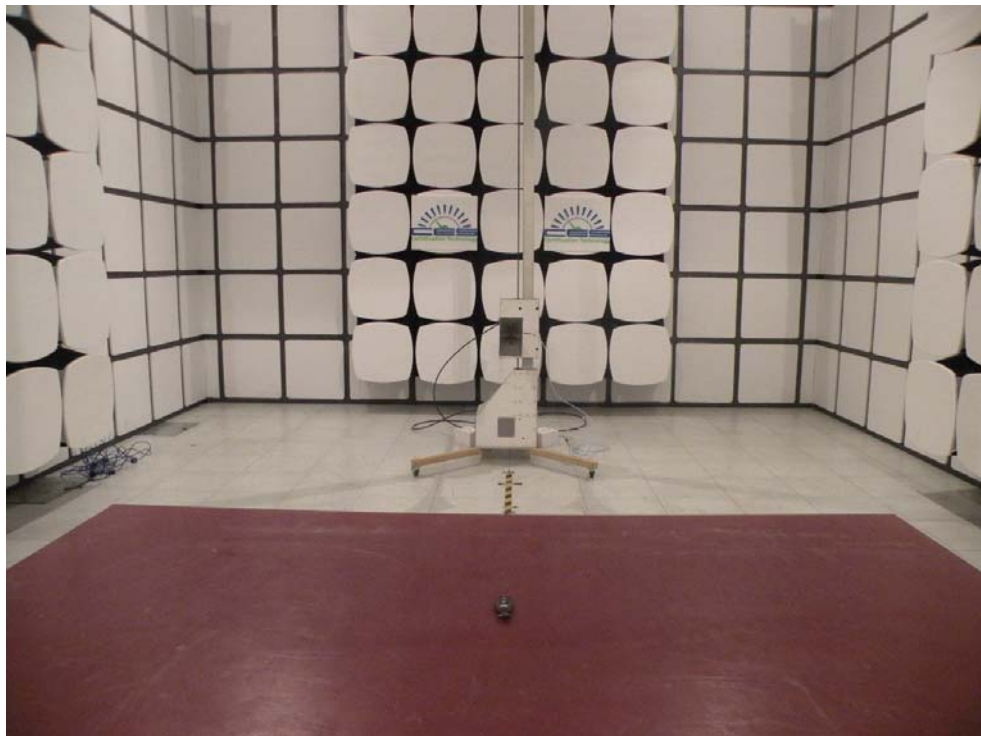
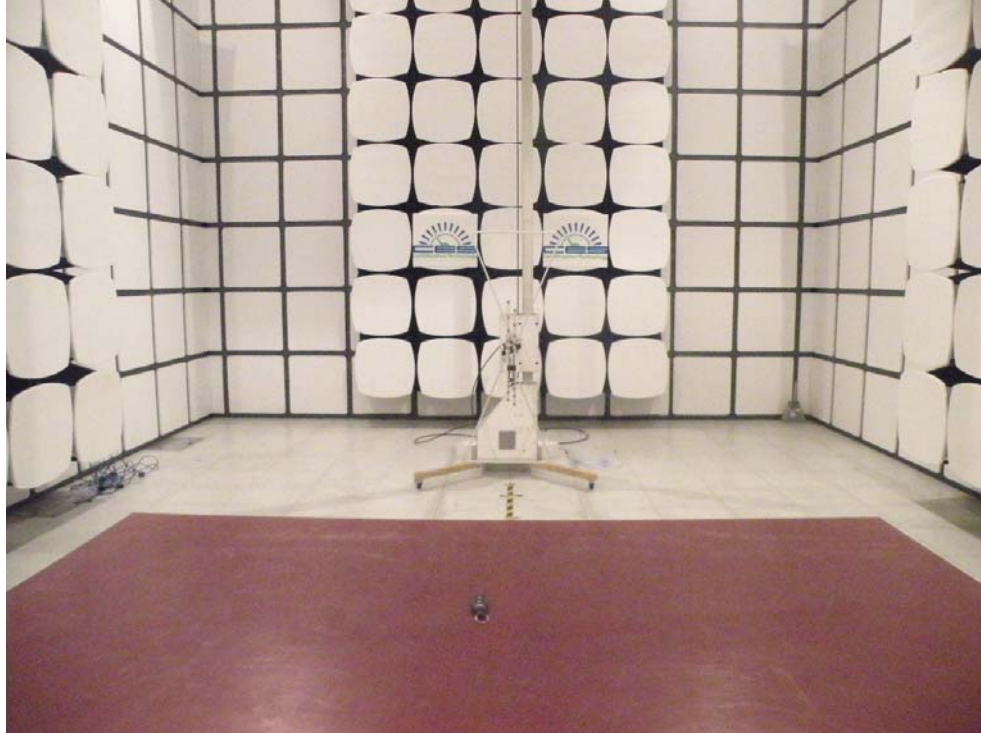
The directional gains of antenna used for transmitting is 0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

10.3 Result

The EUT antenna is PCB antenna. It comply with the standard requirement.

11 Photographs of Test Setup

Photographs-Radiated Emission Test Setup in Chamber

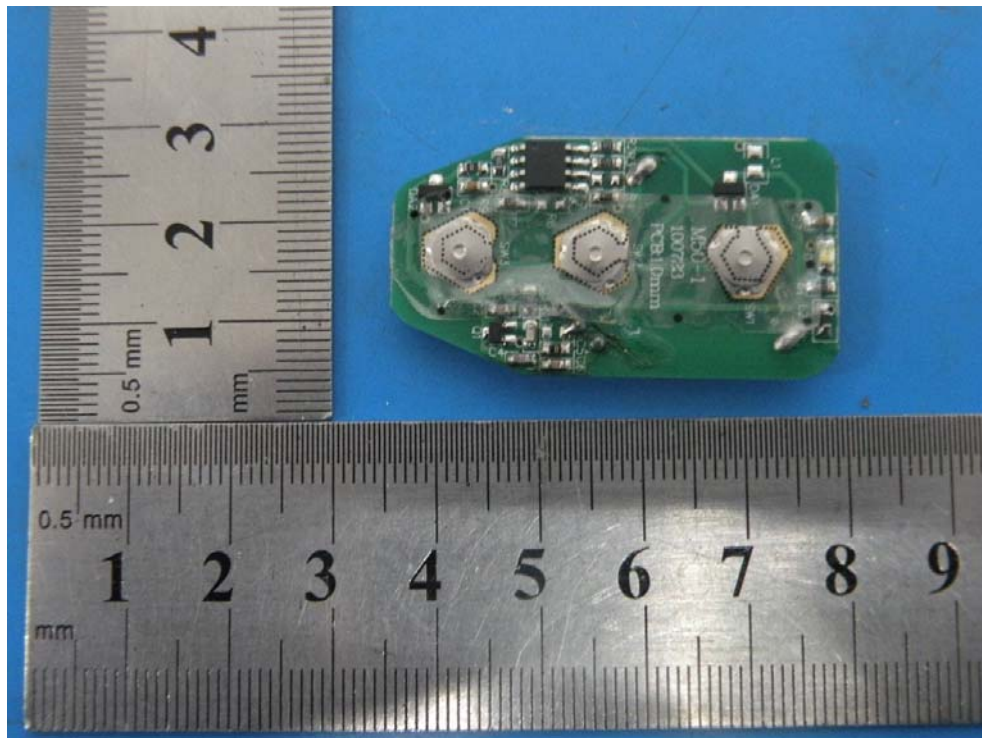


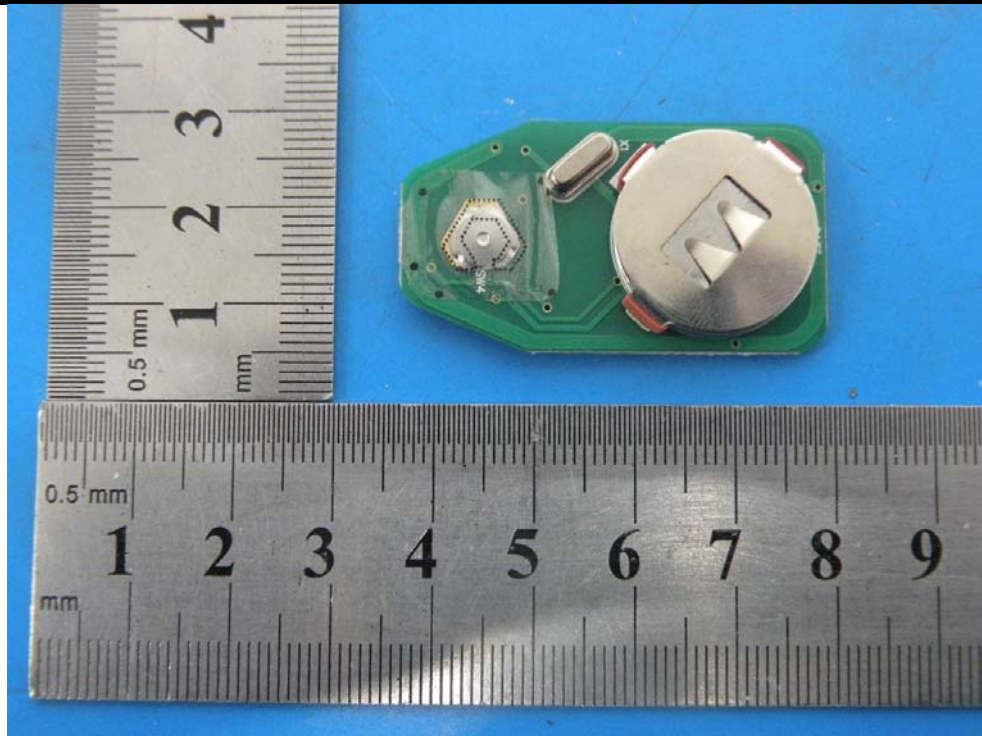
12 Photographs of EUT











-----END OF THE REPORT-----