

# TEST REPORT

**Applicant:** BYD Auto Industry Company Limited

**Address of Applicant:** No. 3001, 3007, Hengping Road, Pingshan, Shenzhen, 518118, P.R.China

**Equipment Under Test (EUT)**

Product Name: TPMS Control Module

Model No.: 3609100

Trade Mark: BYD

FCC ID: SD43609100

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B:2012

**Date of sample receipt:** March 06, 2013

**Date of Test:** March 06-12, 2013

**Date of report issue:** March 13, 2013

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Robinson Lo  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. 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 GTS International Electrical Approvals or testing done by GTS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by GTS International Electrical Approvals in writing.

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## 2 Version

| Version No. | Date           | Description |
|-------------|----------------|-------------|
| 00          | March 13, 2013 | Original    |
|             |                |             |
|             |                |             |
|             |                |             |
|             |                |             |

Prepared By:



Date:

March 13, 2013

Project Engineer

Check By:



Date:

March 13, 2013

Reviewer

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## 4 Test Summary

| Test Item          | Section in CFR 47 | Result |
|--------------------|-------------------|--------|
| Conducted Emission | Part15.107        | N/A    |
| Radiated Emissions | Part15.109        | PASS   |

*PASS: The EUT complies with the essential requirements in the standard.*

*N/A: not applicable.*

## 5 General Information

### 5.1 Client Information

|                         |                                                                      |
|-------------------------|----------------------------------------------------------------------|
| Applicant:              | BYD Auto Industry Company Limited                                    |
| Address of Applicant:   | No. 3001, 3007, Hengping Road, Pingshan, Shenzhen, 518118, P.R.China |
| Manufacturer:           | BYD Auto Industry Company Limited                                    |
| Address of Manufacturer | No. 3001, 3007, Hengping Road, Pingshan, Shenzhen, 518118, P.R.China |

### 5.2 General Description of EUT

|               |                     |
|---------------|---------------------|
| Product Name: | TPMS Control Module |
| Model No.:    | 3609100             |
| Power supply: | DC 12V              |

### 5.3 Test mode

|                |                                 |
|----------------|---------------------------------|
| Receiving mode | Keep the EUT in Receiving mode. |
|----------------|---------------------------------|

## 5.4 Test Facility

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

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, July 20, 2010.

- **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

## 5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

## 5.6 Description of Support Units

| Manufacturer | Description              | Model      | Serial Number |
|--------------|--------------------------|------------|---------------|
| GS           | Supreme maintenance Free | S5D26R-MFZ | 9442804454    |
| BYD          | TPMS Sensor Module       | 3609200    | N/A           |

## 5.7 Deviation from Standards

None.

## 5.8 Abnormalities from Standard Conditions

None.

## 5.9 Other Information Requested by the Customer

None.

## 6 Test Instruments list

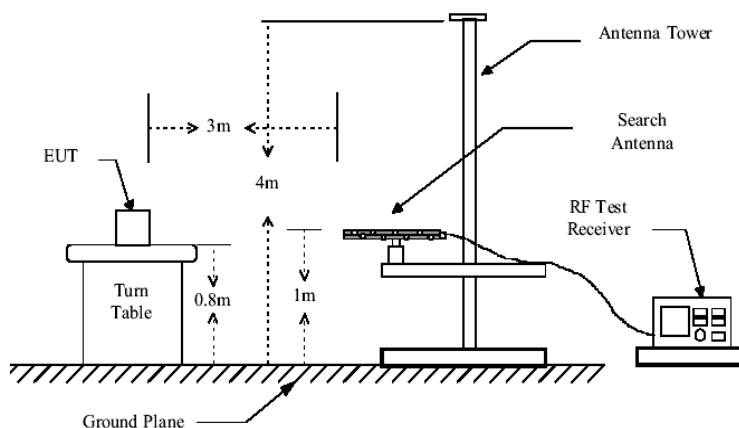
| Radiated Emission: |                               |                                |                       |               |                     |                         |
|--------------------|-------------------------------|--------------------------------|-----------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                | Manufacturer                   | Model No.             | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | 3m Semi- Anechoic Chamber     | ZhongYu Electron               | 9.0(L)*6.0(W)* 6.0(H) | GTS250        | Mar. 30 2011        | Mar. 29 2013            |
| 2                  | Control Room                  | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H) | GTS251        | N/A                 | N/A                     |
| 3                  | EMI Test Receiver             | Rohde & Schwarz                | ESU26                 | GTS203        | Jul. 03 2012        | Jul. 02 2013            |
| 4                  | BiConiLog Antenna             | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9163              | GTS214        | Feb. 24 2013        | Feb. 23 2014            |
| 5                  | Double -ridged waveguide horn | SCHWARZBECK<br>MESS-ELEKTRONIK | 9120D-829             | GTS208        | June 29 2012        | June 28 2013            |
| 6                  | Amplifier(100kHz-3GHz)        | HP                             | 8347A                 | GTS204        | Jul. 03 2012        | Jul. 02 2013            |
| 7                  | Amplifier(2GHz-20GHz)         | HP                             | 8349B                 | GTS206        | Jul. 03 2012        | Jul. 02 2013            |
| 8                  | EMI Test Software             | AUDIX                          | E3                    | N/A           | N/A                 | N/A                     |
| 9                  | Coaxial cable                 | GTS                            | N/A                   | GTS210        | Mar. 31 2012        | Mar. 30 2013            |
| 10                 | Coaxial Cable                 | GTS                            | N/A                   | GTS211        | Mar. 31 2012        | Mar. 30 2013            |
| 11                 | Thermo meter                  | N/A                            | N/A                   | GTS256        | Jul. 06 2012        | Jul. 05 2013            |

| General used equipment: |                |              |           |               |                     |                         |
|-------------------------|----------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item                    | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| 1                       | Barometer      | ChangChun    | DYM3      | GTS257        | July 10 2012        | July 09 2013            |

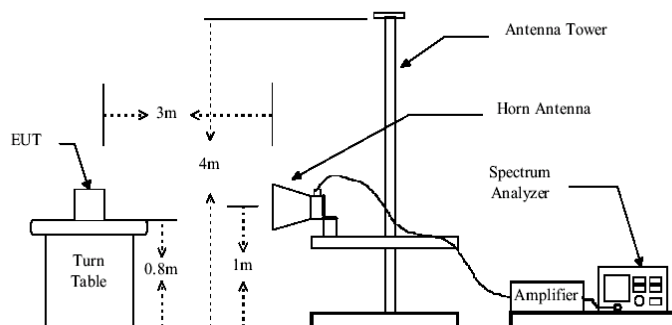
## 7 Test Results and Measurement Data

### 7.1 Radiated Emission

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                    |               |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|---------------|------------------|-----------|----------|--------------------|-----|--------|-------------|------------|--------|--------|------------------|--------------|------|-------|------|------------------|---------------|------|-------|---------------|------------------|-------------|--|-------|--|------------------|------------|-------|--|---------------|--|-------|--|------------|--|
| Test Requirement:     | FCC Part15 B Section 15.109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                    |               |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| Test Method:          | ANSI C63.4:2003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                    |               |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| Test Frequency Range: | 30MHz to 2GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                    |               |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| Test site:            | Measurement Distance: 3m (Semi-Anechoic Chamber)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                    |               |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| Receiver setup:       | <table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                    |               |                  | Frequency | Detector | RBW                | VBW | Remark | 30MHz-1GHz  | Quasi-peak | 120kHz | 300kHz | Quasi-peak Value | Above 1GHz   | Peak | 1MHz  | 3MHz | Peak Value       | Peak          | 1MHz | 10Hz  | Average Value |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|                       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Detector   | RBW                | VBW           | Remark           |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|                       | 30MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quasi-peak | 120kHz             | 300kHz        | Quasi-peak Value |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Peak       | 1MHz               | 3MHz          | Peak Value       |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| Peak                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1MHz       | 10Hz               | Average Value |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| Limit:                | <table><tr><td colspan="2">Frequency</td><td colspan="2">Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td colspan="2">30MHz-88MHz</td><td colspan="2">40.00</td><td>Quasi-peak Value</td></tr><tr><td colspan="2">88MHz-216MHz</td><td colspan="2">43.50</td><td>Quasi-peak Value</td></tr><tr><td colspan="2">216MHz-960MHz</td><td colspan="2">46.00</td><td>Quasi-peak Value</td></tr><tr><td colspan="2">960MHz-1GHz</td><td colspan="2">54.00</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td colspan="2">54.00</td><td colspan="2">Average Value</td></tr><tr><td colspan="2">74.00</td><td colspan="2">Peak Value</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                    |               |                  | Frequency |          | Limit (dBuV/m @3m) |     | Remark | 30MHz-88MHz |            | 40.00  |        | Quasi-peak Value | 88MHz-216MHz |      | 43.50 |      | Quasi-peak Value | 216MHz-960MHz |      | 46.00 |               | Quasi-peak Value | 960MHz-1GHz |  | 54.00 |  | Quasi-peak Value | Above 1GHz | 54.00 |  | Average Value |  | 74.00 |  | Peak Value |  |
|                       | Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | Limit (dBuV/m @3m) |               | Remark           |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|                       | 30MHz-88MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | 40.00              |               | Quasi-peak Value |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|                       | 88MHz-216MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | 43.50              |               | Quasi-peak Value |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|                       | 216MHz-960MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | 46.00              |               | Quasi-peak Value |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|                       | 960MHz-1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | 54.00              |               | Quasi-peak Value |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
|                       | Above 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 54.00      |                    | Average Value |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| 74.00                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Peak Value |                    |               |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| Test Procedure:       | <div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</div> <div>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> |            |                    |               |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |
| Test setup:           | Below 1GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                    |               |                  |           |          |                    |     |        |             |            |        |        |                  |              |      |       |      |                  |               |      |       |               |                  |             |  |       |  |                  |            |       |  |               |  |       |  |            |  |



Above 1GHz



|                     |                                  |             |                   |
|---------------------|----------------------------------|-------------|-------------------|
| Test environment:   | Temp.: 25 °C                     | Humid.: 52% | Press.: 1 012mbar |
| Measurement Record: | Uncertainty: ± 4.5dB             |             |                   |
| Test Instruments:   | Refer to section 6 for details   |             |                   |
| Test mode:          | Refer to section 5.3 for details |             |                   |
| Test results:       | Pass                             |             |                   |

## Note:

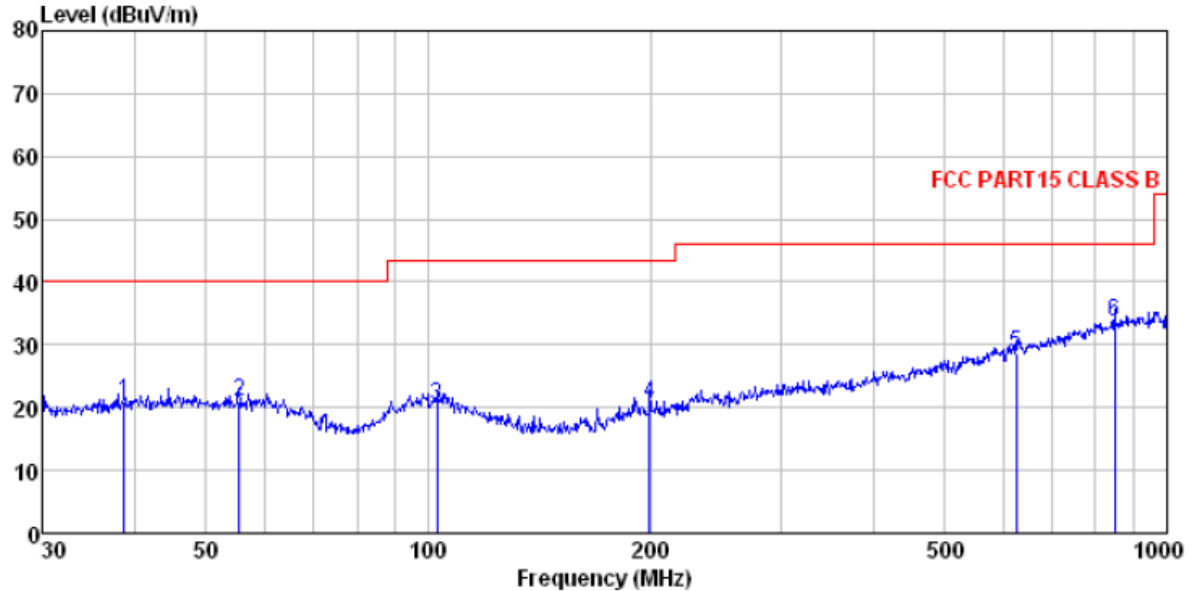
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

## Measurement Data

Below 1GHz

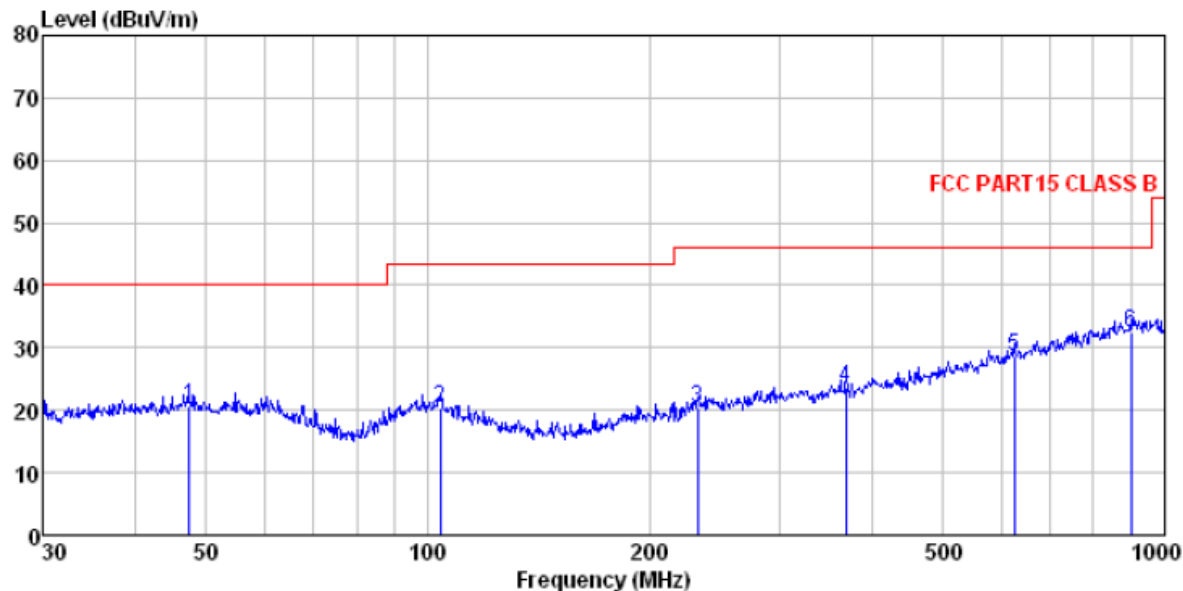
Horizontal:



Site : 3m chamber  
 Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 HORIZONTAL  
 Job No. : 0148RF  
 Test Mode : Receive mode  
 Test Engineer: Hank

|   | Freq    | ReadAntenna | Cable Preamp |       | Limit  | Over   |                 |
|---|---------|-------------|--------------|-------|--------|--------|-----------------|
|   | Level   | Factor      | Loss Factor  | Level | Line   | Limit  | Remark          |
|   | MHz     | dBuV        | dB/m         | dB    | dBuV/m | dBuV/m | dB              |
| 1 | 38.752  | 36.00       | 16.51        | 0.65  | 32.06  | 21.10  | 40.00 -18.90 QP |
| 2 | 55.415  | 35.95       | 16.08        | 0.82  | 31.95  | 20.90  | 40.00 -19.10 QP |
| 3 | 102.719 | 34.97       | 15.98        | 1.22  | 31.77  | 20.40  | 43.50 -23.10 QP |
| 4 | 199.286 | 37.39       | 13.60        | 1.84  | 32.14  | 20.69  | 43.50 -22.81 QP |
| 5 | 625.078 | 35.15       | 20.80        | 3.82  | 31.08  | 28.69  | 46.00 -17.31 QP |
| 6 | 848.056 | 36.80       | 23.55        | 4.65  | 31.25  | 33.75  | 46.00 -12.25 QP |

Vertical:

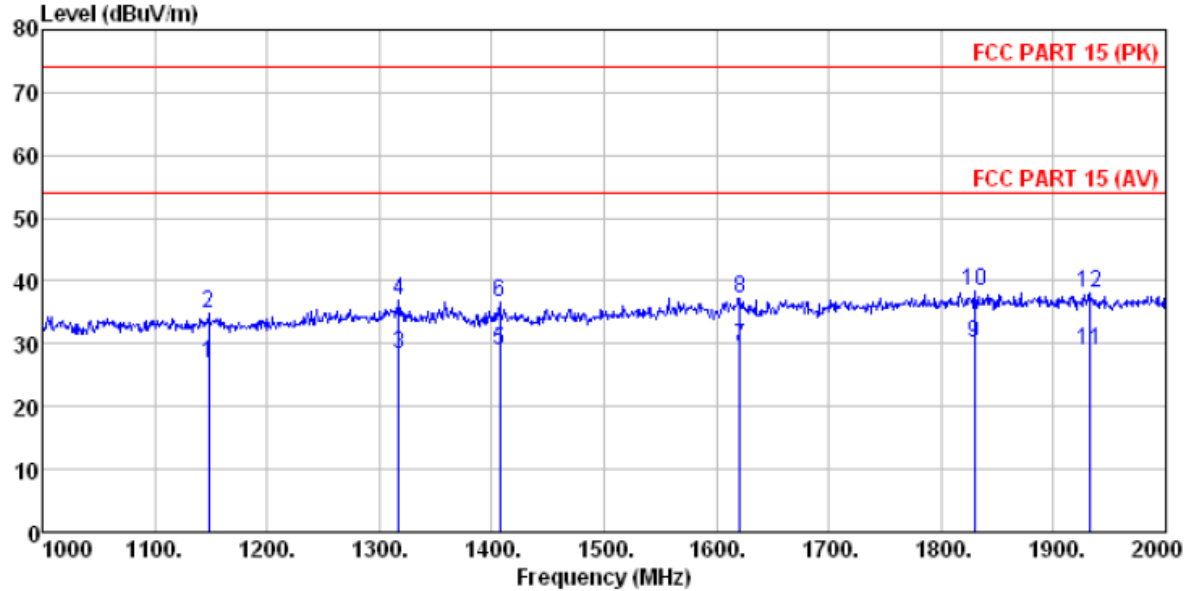


Site : 3m chamber  
 Condition : FCC PART15 CLASS B 3m VULB9163 -2012-05 VERTICAL  
 Job No. : 0148RF  
 Test Mode : Receive mode  
 Test Engineer: Hank

|      | Read    | Antenna | Cable | Preamp | Limit  | Over   |                 |
|------|---------|---------|-------|--------|--------|--------|-----------------|
| Freq | Level   | Factor  | Loss  | Factor | Line   | Limit  | Remark          |
| MHz  | dBuV    | dB/m    | dB    | dB     | dBuV/m | dBuV/m | dB              |
| 1    | 47.492  | 35.28   | 16.52 | 0.74   | 31.98  | 20.56  | 40.00 -19.44 QP |
| 2    | 103.806 | 35.26   | 15.73 | 1.22   | 31.78  | 20.43  | 43.50 -23.07 QP |
| 3    | 232.532 | 35.64   | 14.78 | 2.03   | 32.16  | 20.29  | 46.00 -25.71 QP |
| 4    | 369.405 | 36.33   | 16.51 | 2.72   | 31.97  | 23.59  | 46.00 -22.41 QP |
| 5    | 625.078 | 35.19   | 20.80 | 3.82   | 31.08  | 28.73  | 46.00 -17.27 QP |
| 6    | 900.147 | 34.74   | 24.09 | 4.85   | 31.18  | 32.50  | 46.00 -13.50 QP |

Above 1GHz

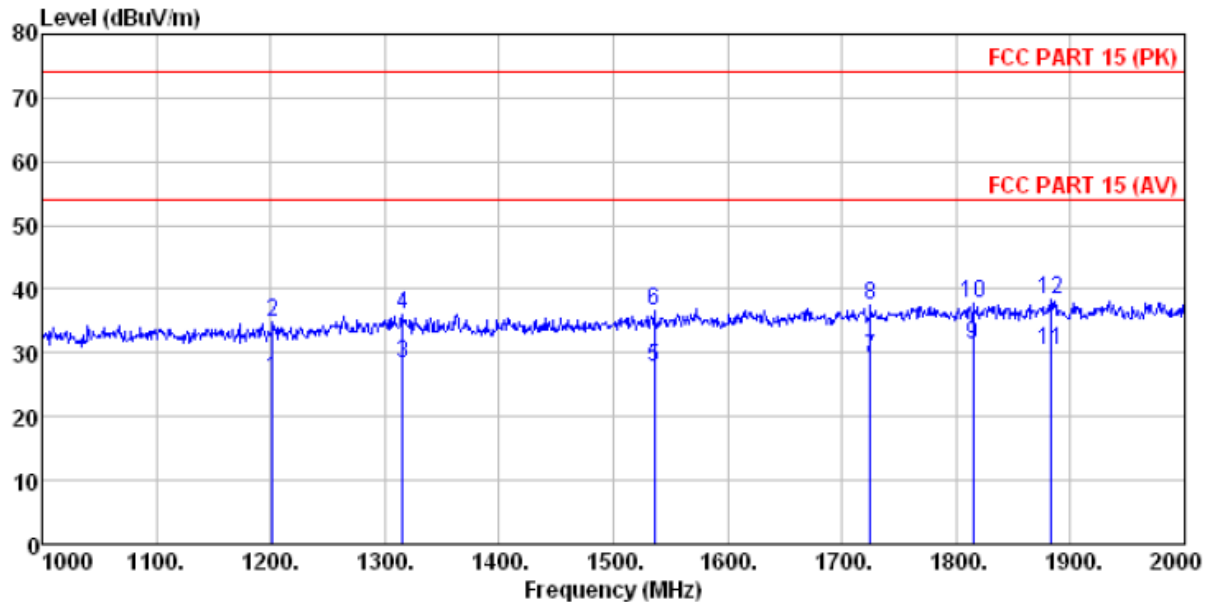
Horizontal:



Site : 3m chamber  
 Condition : FCC PART 15 (PK) 3m VULB9163 -2012-05 HORIZONTAL  
 Job No. : 0148RF  
 Test Mode : Receive mode  
 Test Engineer: Hank

|    | Freq     | ReadAntenna | Cable Preamp |       | Limit  | Over   |                      |
|----|----------|-------------|--------------|-------|--------|--------|----------------------|
|    | Level    | Factor      | Loss Factor  | Level | Line   | Limit  | Remark               |
|    | MHz      | dBuV        | dB/m         | dB    | dBuV/m | dBuV/m | dB                   |
| 1  | 1148.000 | 29.85       | 24.11        | 4.42  | 31.42  | 26.96  | 54.00 -27.04 Average |
| 2  | 1148.000 | 37.58       | 24.11        | 4.42  | 31.42  | 34.69  | 74.00 -39.31 Peak    |
| 3  | 1317.000 | 29.62       | 25.64        | 4.56  | 31.59  | 28.23  | 54.00 -25.77 Average |
| 4  | 1317.000 | 38.24       | 25.64        | 4.56  | 31.59  | 36.85  | 74.00 -37.15 Peak    |
| 5  | 1407.000 | 30.57       | 25.31        | 4.62  | 31.67  | 28.83  | 54.00 -25.17 Average |
| 6  | 1407.000 | 38.41       | 25.31        | 4.62  | 31.67  | 36.67  | 74.00 -37.33 Peak    |
| 7  | 1621.000 | 30.25       | 26.00        | 4.76  | 31.57  | 29.44  | 54.00 -24.56 Average |
| 8  | 1621.000 | 38.04       | 26.00        | 4.76  | 31.57  | 37.23  | 74.00 -36.77 Peak    |
| 9  | 1830.000 | 28.77       | 27.66        | 4.87  | 31.30  | 30.00  | 54.00 -24.00 Average |
| 10 | 1830.000 | 37.23       | 27.66        | 4.87  | 31.30  | 38.46  | 74.00 -35.54 Peak    |
| 11 | 1932.000 | 27.49       | 27.82        | 4.93  | 31.18  | 29.06  | 54.00 -24.94 Average |
| 12 | 1932.000 | 36.58       | 27.82        | 4.93  | 31.18  | 38.15  | 74.00 -35.85 Peak    |

Vertical:

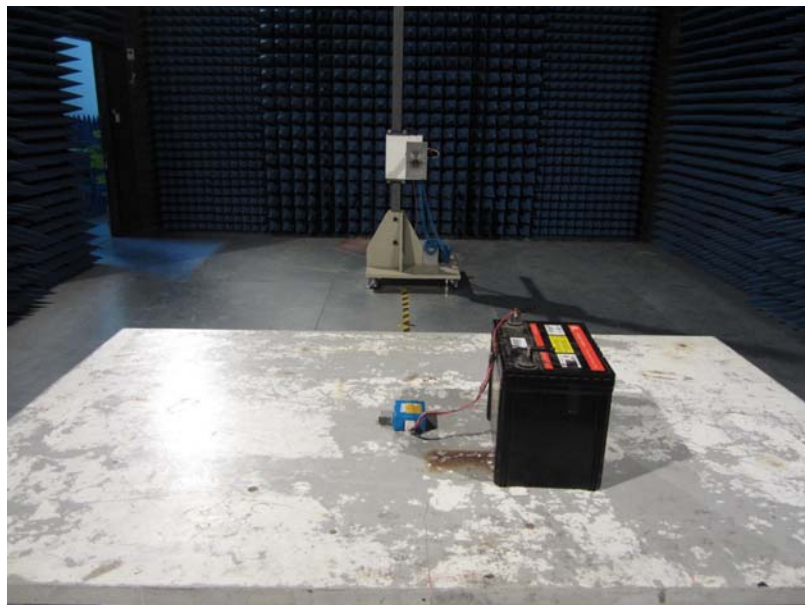
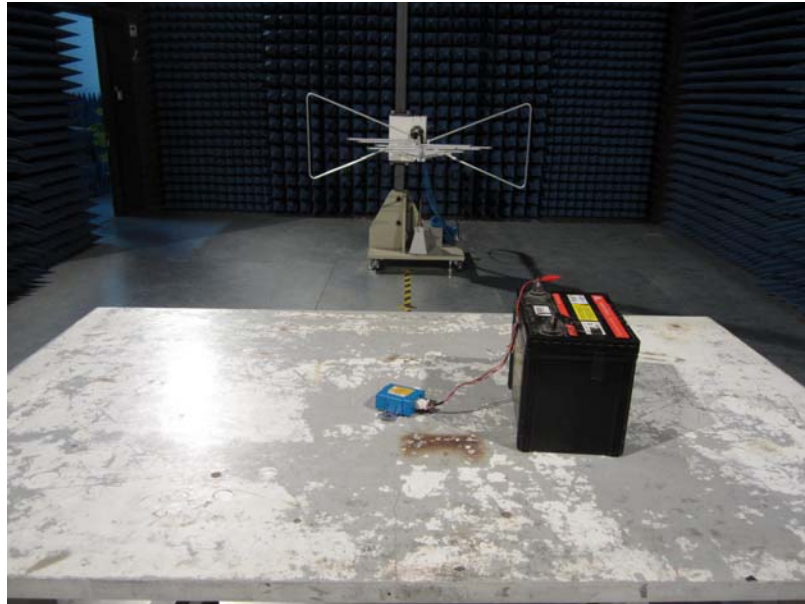


Site : 3m chamber  
Condition : FCC PART 15 (PK) 3m VULB9163 -2012-05 VERTICAL  
Job No. : 0148RF  
Test Mode : Receive mode  
Test Engineer: Hank

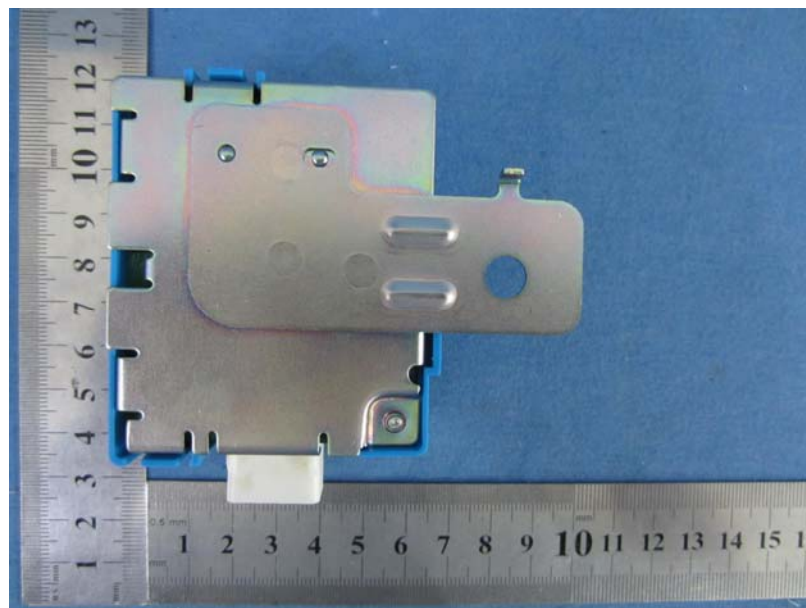
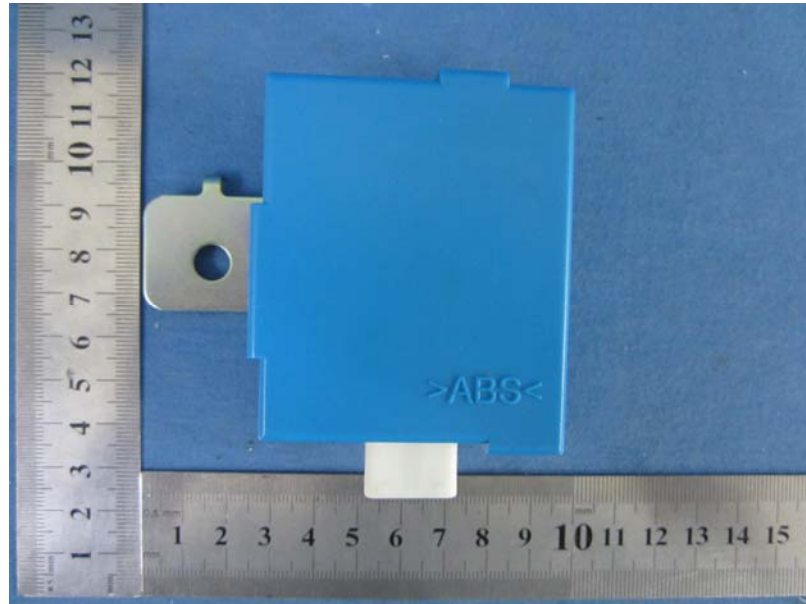
|    | ReadAntenna | Cable Preamp | Limit       | Over  |       |        |        |        |         |
|----|-------------|--------------|-------------|-------|-------|--------|--------|--------|---------|
|    | Freq        | Level Factor | Loss Factor | Level | Line  | Limit  | Remark |        |         |
|    | MHz         | dBuV         | dB/m        | dB    | dB    | dBuV/m | dBuV/m | dB     |         |
| 1  | 1202.000    | 28.78        | 24.21       | 4.47  | 31.48 | 25.98  | 54.00  | -28.02 | Average |
| 2  | 1202.000    | 37.61        | 24.21       | 4.47  | 31.48 | 34.81  | 74.00  | -39.19 | Peak    |
| 3  | 1316.000    | 29.67        | 25.64       | 4.56  | 31.59 | 28.28  | 54.00  | -25.72 | Average |
| 4  | 1316.000    | 37.35        | 25.64       | 4.56  | 31.59 | 35.96  | 74.00  | -38.04 | Peak    |
| 5  | 1536.000    | 29.13        | 25.63       | 4.70  | 31.69 | 27.77  | 54.00  | -26.23 | Average |
| 6  | 1536.000    | 37.86        | 25.63       | 4.70  | 31.69 | 36.50  | 74.00  | -37.50 | Peak    |
| 7  | 1725.000    | 29.34        | 26.46       | 4.82  | 31.43 | 29.19  | 54.00  | -24.81 | Average |
| 8  | 1725.000    | 37.73        | 26.46       | 4.82  | 31.43 | 37.58  | 74.00  | -36.42 | Peak    |
| 9  | 1815.000    | 30.21        | 27.59       | 4.87  | 31.32 | 31.35  | 54.00  | -22.65 | Average |
| 10 | 1815.000    | 36.70        | 27.59       | 4.87  | 31.32 | 37.84  | 74.00  | -36.16 | Peak    |
| 11 | 1883.000    | 28.86        | 27.99       | 4.90  | 31.24 | 30.51  | 54.00  | -23.49 | Average |
| 12 | 1883.000    | 36.62        | 27.99       | 4.90  | 31.24 | 38.27  | 74.00  | -35.73 | Peak    |

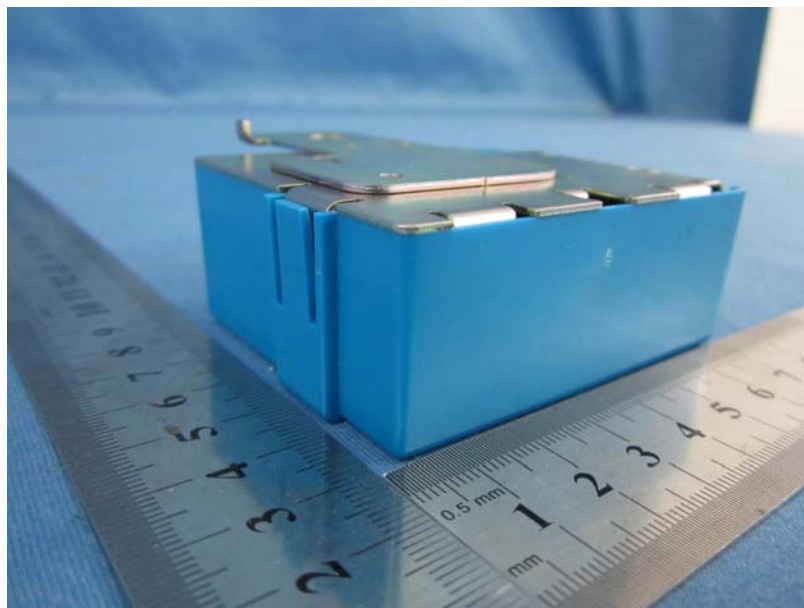
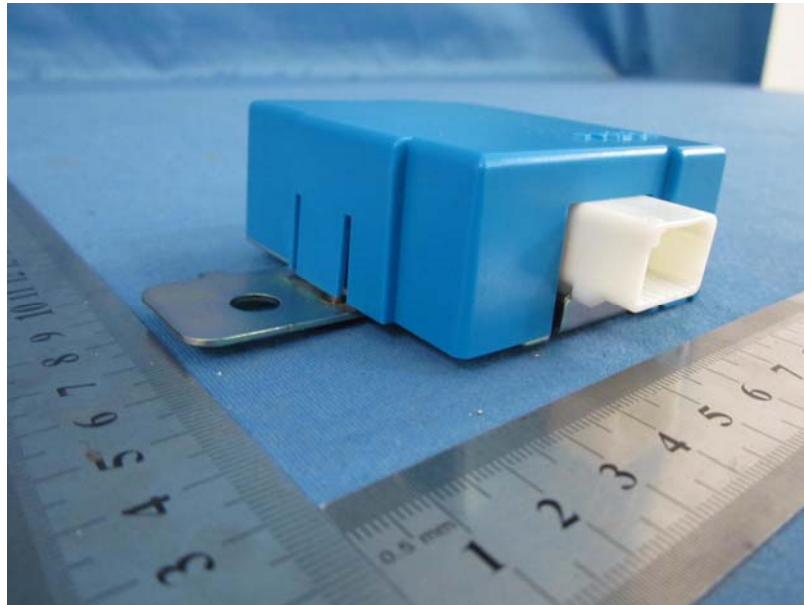
## 8 Test Setup Photo

Radiated Emission

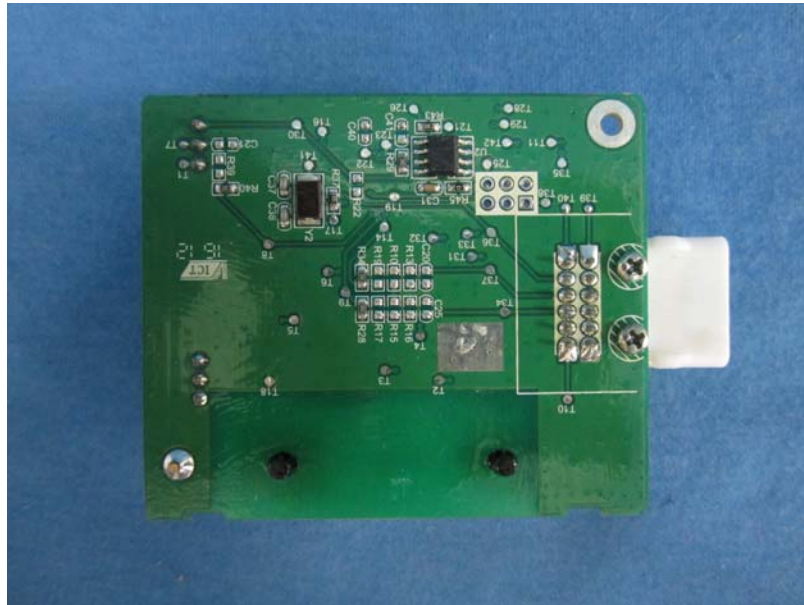


## 9 EUT Constructional Details











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