**CENTRE OF TESTING SERVICE INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# IC TEST REPORT

## TEST REPORT NUMBER : CGZ3150202-00095-E

**CENTRE OF TESTING SERVICE CO., LTD.**

A101，No.65，Zhuji Highway,Tianhe District，Guangzhou, Guangdong，China

**TEST REPORT FOR IC**

**ICES-003 Issue 5, August 2012**

Spectrum Management and Telecommunications Policy Interference-Causing Equipment Standard -Digital Apparatus

| | |
|---|---|
| **Report Reference No. .....** : | CGZ3150202-00095-E |
| Date of issue ..... : | 04 February 2015 |
| **Testing Laboratory Name.....** : | **CENTRE OF TESTING SERVICE CO., LTD.** |
| Address ..... : | A101，No.65，Zhuji Highway,Tianhe District，Guangzhou, Guangdong, China |
| Testing location/ procedure..... : | Full application of Harmonised standards ■<br>Partial application of Harmonised standards □<br>Other standard testing method □ |
| **Applicant's name .....** : | Adafruit Industries |
| Address ..... : | 150 Varick St. #3 New York, NY 10013 |
| **Test specification:** | |
| Standard..... : | **ICES-003 Issue 5, August 2012** |
| **Test Report Form No. .....** : | CTSEMC-1.0 |
| TRF Originator..... : | CENTRE OF TESTING SERVICE CO., LTD. |
| Master TRF ..... : | Dated 2009-01 |



| | |
|---|---|
| **Test item description. .....** | Pro Trinket 3V |
| Trade Mark ..... : | Adafruit |
| Manufacturer ..... : | Adafruit Industries |
| Model/Type reference ..... : | Pro Trinket 3V |
| Ratings ..... : | Battery 3V |
| Result ..... | **PASSED** |

| **Compiled by:** | **Supervised by:** | **Approved by:** |
|---|---|---|
| Kate zhang / File administrators | Duke yang / Technique principal | Vincent yao / Manager |



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# IC -- T E S T  R E P O R T

| Test Report No. : CGZ3150202-00095-E | 04 February 2015<br>Date of issue |
|---|---|

| | |
|---|---|
| Type / Model..... | Pro Trinket 3V |
| EUT..... | Pro Trinket 3V |
| **Applicant.....** | Adafruit Industries |
| Address..... | 150 Varick St. #3 New York, NY 10013 |
| Telephone..... | +1-760-884-7727 |
| Fax..... | +1-760-887-8574 |
| Contact..... | Mary Jungman |
| **Manufacturer.....** | Adafruit Industries |
| Address..... | 150 Varick St. #3 New York, NY 10013 |
| Telephone..... | +1-760-884-7727 |
| Fax..... | +1-760-887-8574 |
| Contact..... | Mary Jungman |
| **Test report holder.....** | Adafruit Industries |
| Address..... | 150 Varick St. #3 New York, NY 10013 |
| Telephone..... | +1-760-884-7727 |
| Fax..... | +1-760-887-8574 |
| Contact..... | Mary Jungman |

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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# 1 TEST STANDARDS

The tests were performed according to following standards:

■ **ICES-**003 **Issue 5, August 2012**
■ **ANSI** C63**.4-2009**

# 2 SUMMARY

## 2.1 GENERAL REMARKS

| | |
|---|---|
| Date of receipt of test sample | 02 February 2015 |
| | |
| Testing commenced on | 02~03 February 2015 |
| | |
| Testing concluded on | 04 February 2015 |

## 2.2 FINAL ASSESSMENT

The IC requirements pertaining to the technical standards and tested operation modes are

■ - fulfilled.

□ - **not** fulfilled.

The equipment under test

■ - fulfils the IC requirements cited on page 1.

□ - **does** not fulfil the IC requirements cited on page 1.



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# 3 EQUIPMENT UNDER TEST

## 3.1 Power supply system utilised

Power supply voltage : ■ Battery 3V
□ Others

## 3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: **1**
Serial number: Prototype

## 3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

■ Normal
**Operating Mode:** Normal

□ The equipment under test was operated during the measurement under the following conditions:
Test program (customer specific)

Emissions tests…….: According to **ICES-003**, searching for the highest disturbance.



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## 3.4 EUT configuration

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurement:

| | |
|---|---|
| Name: | / |
| M/N: | / |
| S/N: | / |
| Manufacturer: | / |
| Power Cord: | / |
| Certificate: | / |

☐ - unscreened power cables

☐ - customer specific cables



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# 4 TEST ENVIRONMENT

## 4.1 Address of the test laboratory

A101, No.65, Zhuji Road, Tianhe District, Guangzhou, Guangdong, China
Tel：+86-20-85543113 (32 lines) Fax：+86-20-38780406

## 4.2 Test facility

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

### CNAS-Lab Code: L3394

**CENTRE OF TESTING SERVICE CO., LTD.** has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

### IC-Registration No.: 8374A

The 3m Alternate Test Site of **CENTRE OF TESTING SERVICE CO., LTD.** has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374A on May 22, 2014.

### FCC-Registration No.: 971995

**CENTRE OF TESTING SERVICE CO., LTD.** 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 our files. Registration No.971995, July 13,2012.

## 4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|---|---|
| Temperature: | 15-35 ° C |
| Humidity: | 25-75 % |
| Atmospheric pressure: | 86-106 kPa |

## 4.4 Definitions of symbols used in this test report

■ - The black square indicates that the listed condition, standard or equipment is applicable for this report.
□ - The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

## 4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

## 4.6 Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty | Note |
|---|---|---|---|
| Conduction disturbance | 150kHz~30MHz | ±1.22dB | (1) |
| Power disturbance | 30MHz~300MHz | ±1.38dB | (1) |
| Radiation emission (3m) | 30MHz~300MHz | ±3.14dB | (1) |
| | 300MHz~1000MHz | ±3.18dB | (1) |

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

## 4.7 Test Description

4.7.1 Description of Standards and Results

| EMISSION | | |
|---|---|---|
| **Description of Test Item** | **Standard** | **Results** |
| Conducted Emission Test | **ICES-003 Issue 5, August 2012 ANSI C63.4-2009** | **N/A** |
| Radiated Emission Test | **ICES-003 Issue 5, August 2012 ANSI C63.4-2009** | **PASS** |



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# 5 TEST CONDITIONS AND RESULTS

## 5.1 Power Line Conducted Emission Test

For test instruments and accessories used see section 6 part **6.2**.

### 5.1.1 Description of the test location

Test location : Shielding Room

### 5.1.2 Description of the test set-up

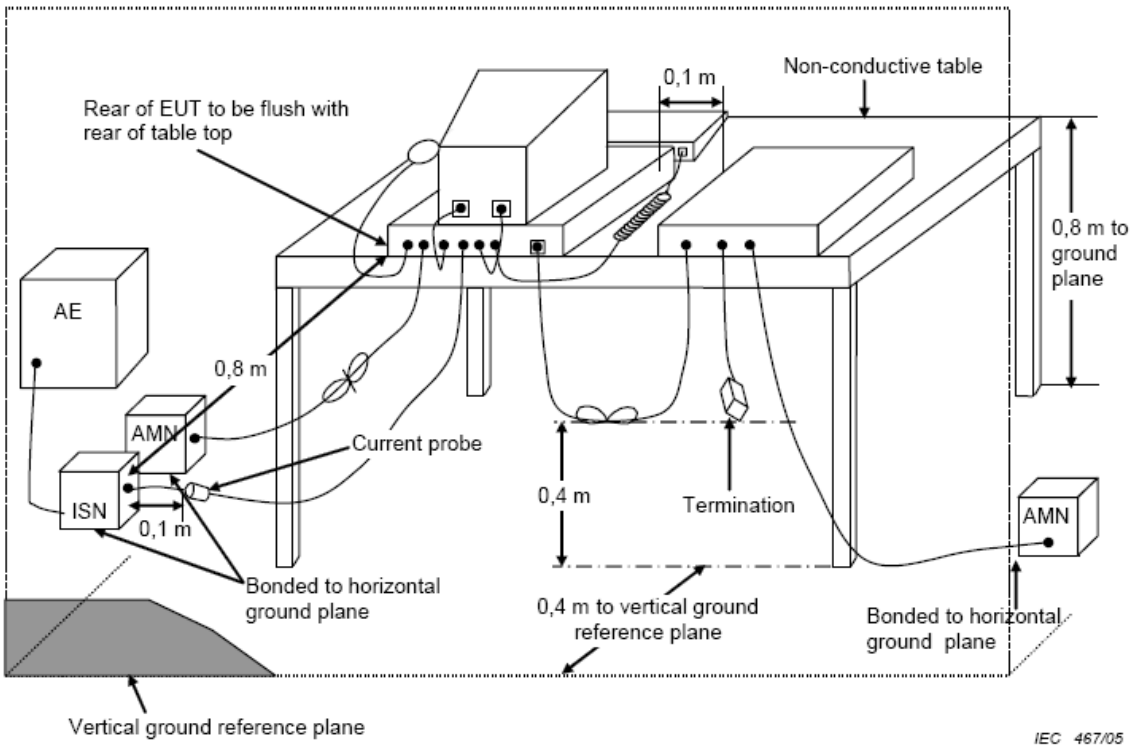
5.1.2.1 Test procedure

The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. let EUT working in test mode, then test it. Both sides of AC line 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 ICES-003 on Conducted Emission Test.

The frequency range from 150kHz to 30MHz is checked

The EUT is normal during the test, and the results of the maximum emanation are recorded

5.1.2.2 Block Diagram of Test Setup



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### 5.1.3 Limits of disturbance (ICES-003 Class B)

| Frequency | Maximum RF Line Voltage | |
|---|---|---|
| | Quasi-Peak Level dB(μV) | Average Level dB(μV) |
| 150kHz ~ 500kHz | 66 ~ 56* | 56 ~ 46* |
| 500kHz ~ 5MHz | 56 | 46 |
| 5MHz ~ 30MHz | 60 | 50 |

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

### 5.1.4 Test result

| | |
|---|---|
| The requirements are | **Fulfilled** |
| Band width | 9kHz |
| Frequency range | 0.15kHz - 30 MHz |
| Min. limit margin | N/A |

**Remarks:** The EUT power supply by battery,Not applicable.



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## 5.2 Radiated disturbance (electric field)

For test instruments and accessories used see section 6 part **6.1**.

### 5.2.1 Description of the test location

Test location : Semi-Anechoic chamber

Test disturbance: 3 Meter

### 5.2.2 Description of the test set-up

5.2.2.1 Test procedure

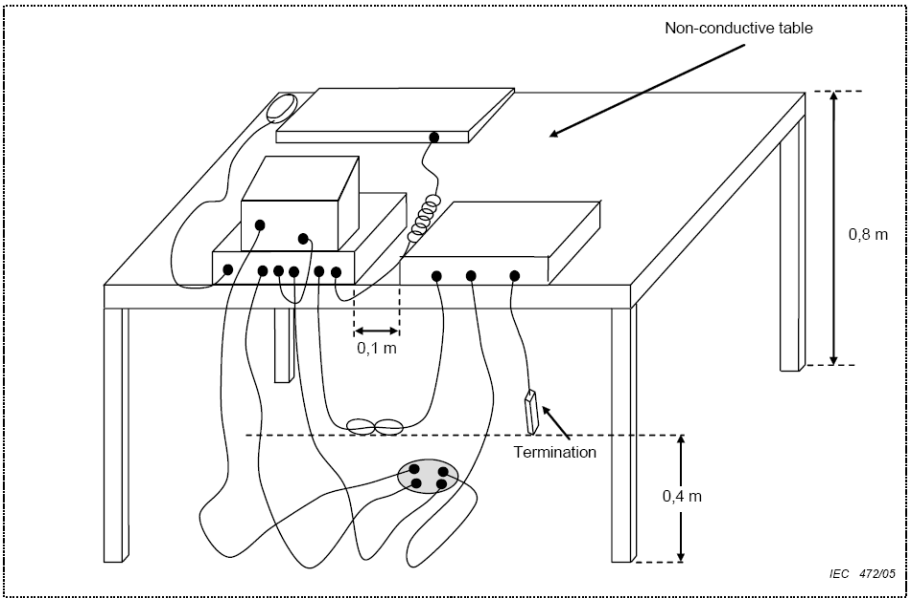
The EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ICES-003 on radiated emission Test.

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz .

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz.
The EUT is normal during the test, and the results of the maximum emanation are recorded

5.2.2.2 Block Diagram of Test Setup



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### 5.2.3 Limits of disturbance (Class B)

| Frequency (MHz) | Distance (Meters) | Field Strengths Limits (dBμV/m) |
|---|---|---|
| 30 ~ 88 | 3 | 40 |
| 88 ~ 216 | 3 | 43.5 |
| 216 ~ 960 | 3 | 46 |
| 960 ~ 1000 | 3 | 54 |

Note: (1) The tighter limit shall apply at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

### 5.2.4 Test result

| | |
|---|---|
| The requirements are | **Fulfilled** |
| Band width | 120kHz |
| Frequency range | 30 MHz - 1000 MHz |
| Min. limit margin | >6.73 dB at 30MHz - 1000 MHz |

**Remarks:** The limits are kept. For detailed results, please see the following page(s).



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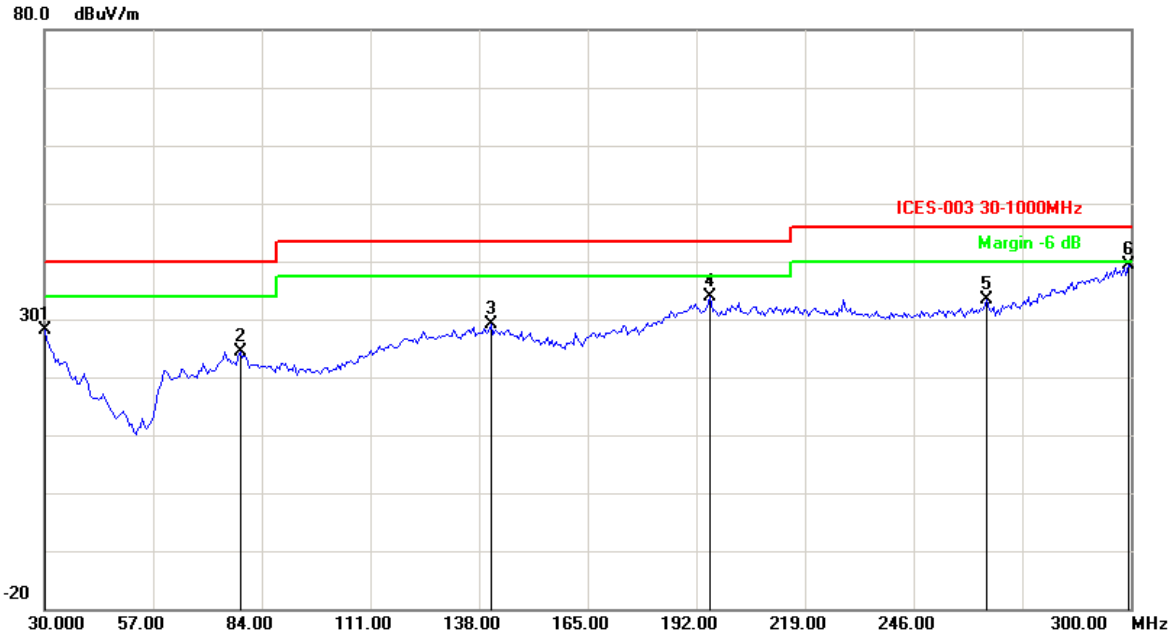
### 5.2.5 Test protocol

| | | | |
|---|---|---|---|
| Test point:<br>Operation Mode<br>Remarks: | Horizontal<br>Normal | Result: | ■ - passed<br>□ - not passed |

| | |
|---|---|
| EUT | Pro Trinket 3V |
| Power Supply | Battery 3V |
| Test Condition | Ambient Temperature: 24°C Humidity: 56% |
| Operator | **Clark** |
| MODE NO: | Pro Trinket 3V |




| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBµV) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.0000 | -24.45 | 52.52 | 28.07 | 40.00 | -11.93 | QP |
| 2 | 78.6974 | -27.42 | 51.84 | 24.42 | 40.00 | -15.58 | QP |
| 3 | 140.9218 | -22.47 | 51.56 | 29.09 | 43.50 | -14.41 | QP |
| 4 | 195.5711 | -18.37 | 52.25 | 33.88 | 43.50 | -9.62 | QP |
| 5 | 264.2886 | -18.25 | 51.56 | 33.31 | 46.00 | -12.69 | QP |
| 6 | 299.4589 | -11.65 | 50.92 | 39.27 | 46.00 | -6.73 | QP |



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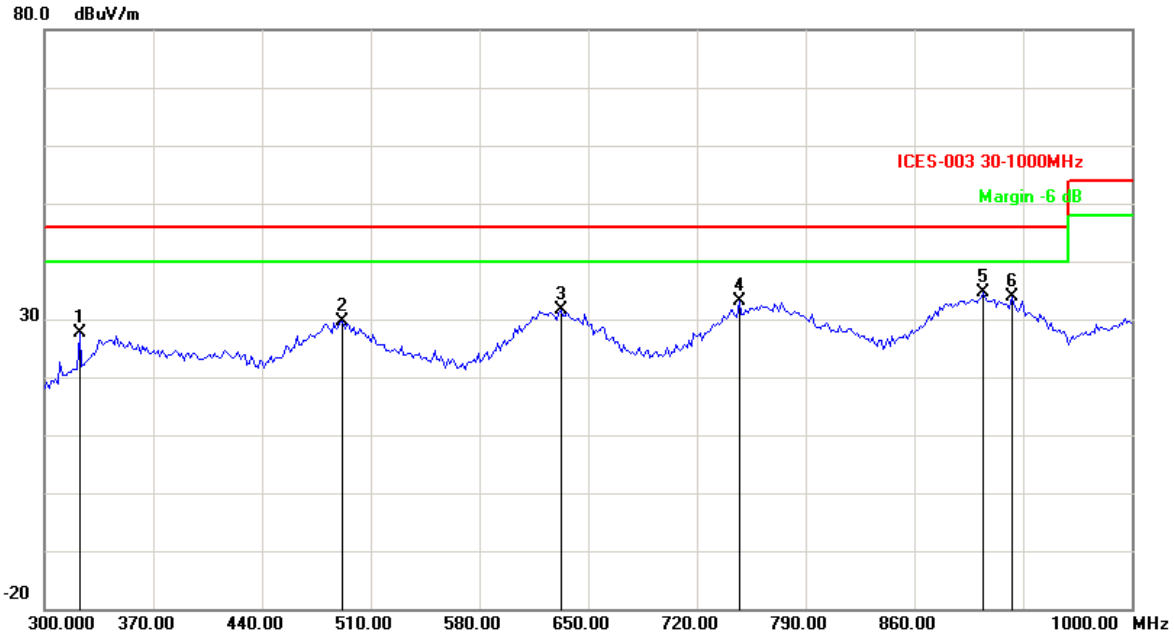


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBμV) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 322.4449 | -27.17 | 54.79 | 27.62 | 46.00 | -18.38 | QP |
| 2 | 492.1844 | -18.90 | 48.56 | 29.66 | 46.00 | -16.34 | QP |
| 3 | 632.4649 | -15.90 | 47.47 | 31.57 | 46.00 | -14.43 | QP |
| 4 | 747.4950 | -14.90 | 48.02 | 33.12 | 46.00 | -12.88 | QP |
| 5 | 904.6092 | -11.60 | 46.31 | 34.71 | 46.00 | -11.29 | QP |
| 6 | 922.8457 | -12.75 | 46.54 | 33.79 | 46.00 | -12.21 | QP |



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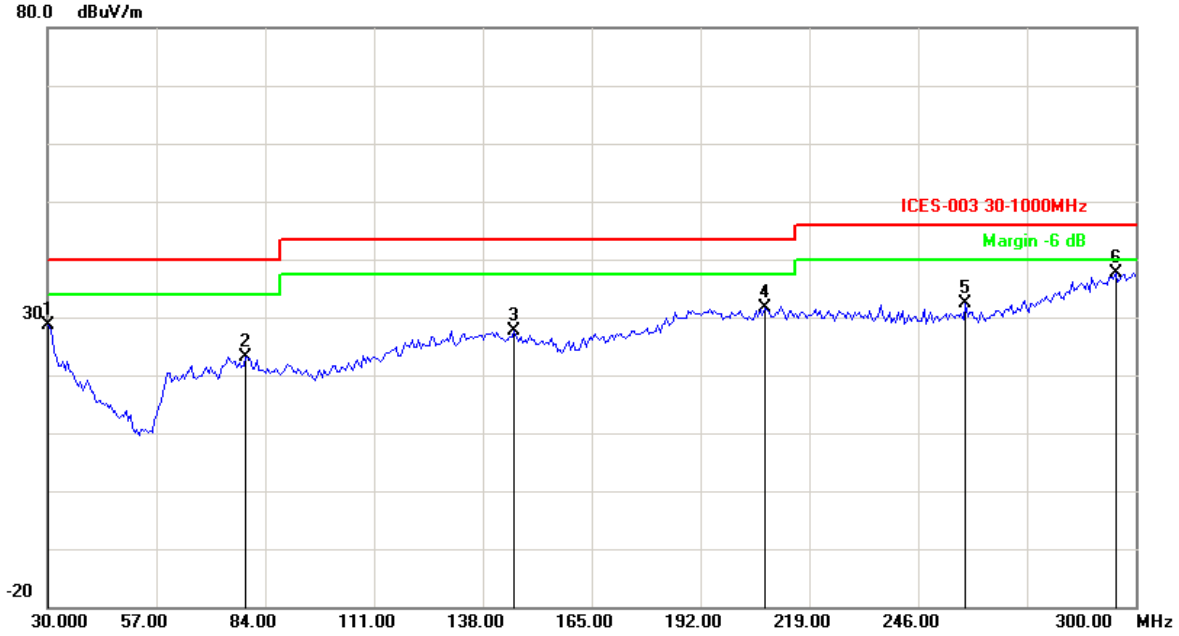
| | | | |
|---|---|---|---|
| Test point:<br>Operation Mode<br>Remarks: | Vertical<br>Normal | Result: | ■ - passed<br>☐ - not passed |

| | |
|---|---|
| EUT | Pro Trinket 3V |
| Power Supply | Battery 3V |
| Test Condition | Ambient Temperature: 24°C Humidity: 56% |
| Operator | **Clark** |
| MODE NO: | Pro Trinket 3V |




| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBμV) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.0000 | -24.45 | 53.03 | 28.58 | 40.00 | -11.42 | QP |
| 2 | 79.2385 | -27.42 | 50.66 | 23.24 | 40.00 | -16.76 | QP |
| 3 | 145.7916 | -22.94 | 50.55 | 27.61 | 43.50 | -15.89 | QP |
| 4 | 208.0160 | -18.18 | 49.82 | 31.64 | 43.50 | -11.86 | QP |
| 5 | 257.7956 | -18.65 | 50.95 | 32.30 | 46.00 | -13.70 | QP |
| 6 | 295.1303 | -12.30 | 49.84 | 37.54 | 46.00 | -8.46 | QP |



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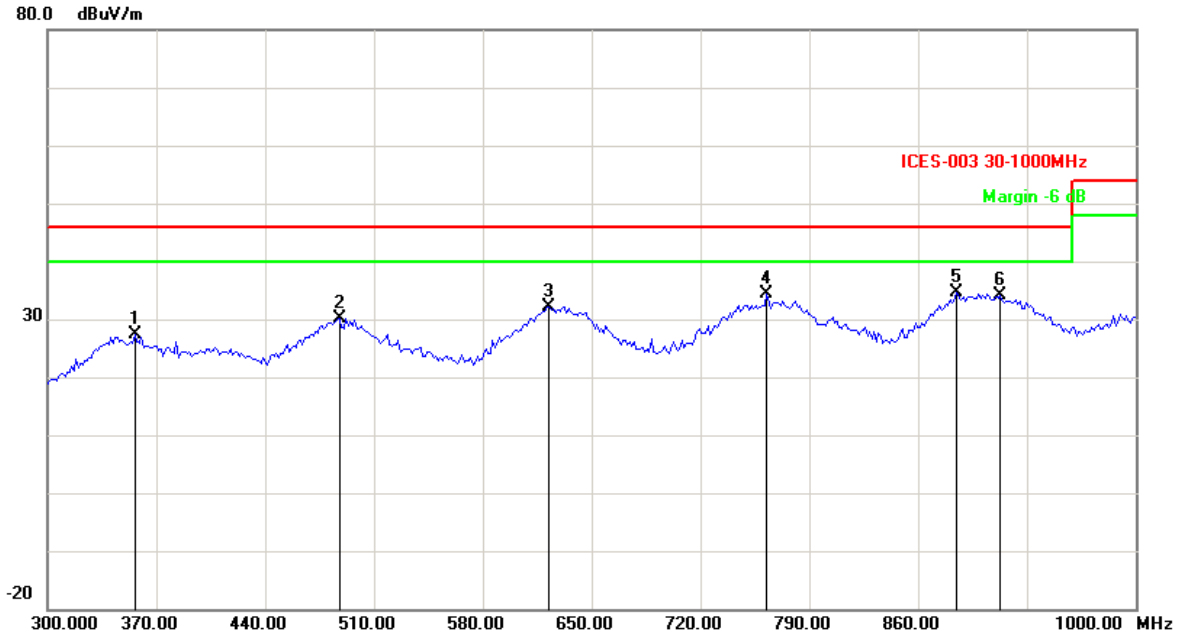


| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBμV) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 356.1122 | -23.40 | 50.85 | 27.45 | 46.00 | -18.55 | QP |
| 2 | 487.9760 | -18.84 | 49.02 | 30.18 | 46.00 | -15.82 | QP |
| 3 | 622.6453 | -15.66 | 47.74 | 32.08 | 46.00 | -13.92 | QP |
| 4 | 762.9259 | -13.96 | 48.25 | 34.29 | 46.00 | -11.71 | QP |
| 5 | 884.9699 | -11.98 | 46.53 | 34.55 | 46.00 | -11.45 | QP |
| 6 | 913.0261 | -12.01 | 46.04 | 34.03 | 46.00 | -11.97 | QP |

Note:Level=Reading+Factor. Margin= Level-Limit.



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# 6 USED TEST EQUIPMENT

| 6.1 | | | | | |
|---|---|---|---|---|---|
| Radiated disturbance (Electric field) | | | | | |
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2014/03/25 |
| 2 | EMI Test Receiver | ROHDE & SCHWARZ | ESVS 10 | 842885/001 | 2014/11/04 |
| 3 | Biconical Antenna | ROHDE & SCHWARZ | HK116 | 100221 | 2014/03/30 |
| 4 | Log per Antenna | ROHDE & SCHWARZ | HL223 | 100226 | 2014/03/30 |
| 5 | Log per Antenna | ROHDE & SCHWARZ | HL050 | 100186 | 2014/03/30 |
| 6 | Pre-Amplifier | EMC | EMC330 | 980113 | 2014/03/25 |
| 7 | Pre-Amplifier | EMC | EMC012645 | 980114 | 2014/03/25 |
| 8 | EMI Test Software | Farad | EZ-EMC | N/A | N/A |

| 6.2 | | | | | |
|---|---|---|---|---|---|
| Conducted Disturbance | | | | | |
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 100868 | 2014/11/04 |
| 2 | Artificial Mains | ROHDE & SCHWARZ | ESH3-Z5 | 832479/025 | 2014/11/04 |
| 3 | Artificial Mains | ROHDE & SCHWARZ | ESH3-Z5 | 100140 | 2014/11/04 |
| 4 | Pulse Limiter | ROHDE & SCHWARZ | ESHS-Z2 | 100301 | 2014/11/04 |
| 5 | EMI Test Software | Farad | EZ-EMC | N/A | N/A |



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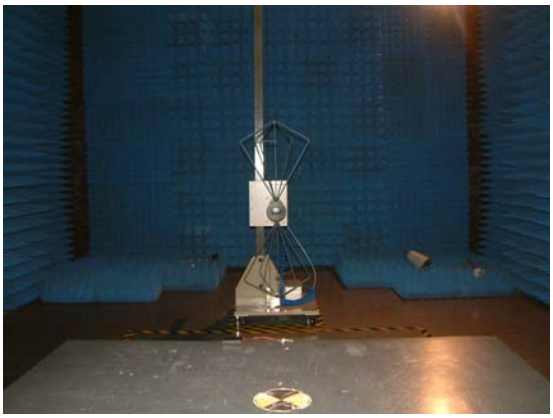
# 7 TEST PHOTOGRAPHS

## 7.1. Photo of radiated emission measurement (R.E. Electric field)





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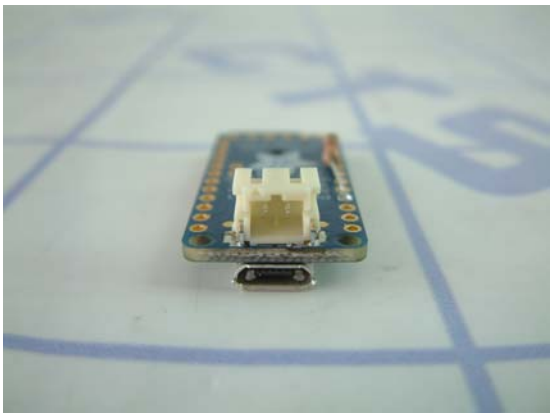
# 8 External and Internal Photos of the EUT


**External view 1**


**External view 2**



**External view 3**



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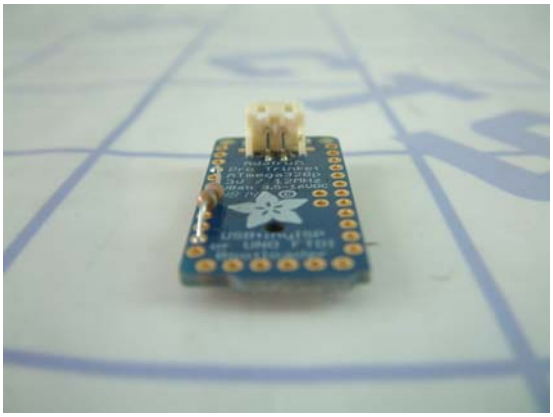
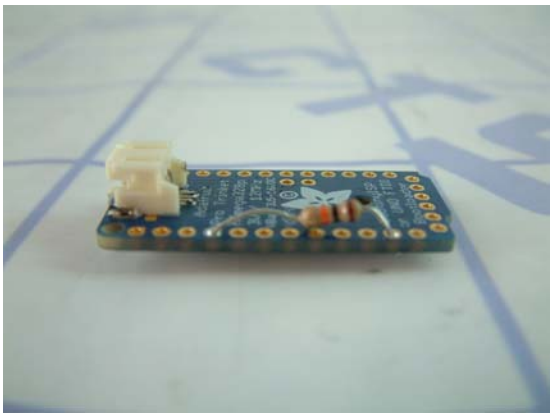
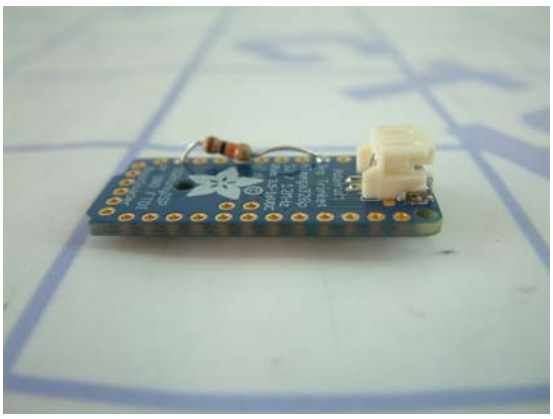


**External view 4**



**External view 5**



**External view 6**



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# 9 Normative references

1. **ICES-003 Issue 5, August 2012**
   Spectrum Management and Telecommunications Policy Interference-Causing Equipment Standard-Digital Apparatus

2. **ANSI C 63.4 : 2009**
   American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

# 10 Manufacturer/ Approval holder Declaration

The following identical model(s):

**N/A**

Belong to the tested device:

Product description: **Pro Trinket 3V**
Model name: **Pro Trinket 3V**



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