



**CTS (NINGBO) TESTING SERVICE TECHNOLOGY
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

FCC ID TEST REPORT

TEST REPORT NUMBER : CNB3120919-01528-E



CTS (Ningbo) Testing Service Technology Co., Ltd.
2/F., South Tower, Huoju Building, No.181, Canghai Road,
Jiangdong Science and Technology Park, Ningbo, Zhejiang, China

TEST REPORT For FCC ID/IC**Report Reference No.** **CNB3120919-01528-E**

Date of issue..... 27 Sep. 2012

Testing Laboratory Name **CENTRE OF TESTING SERVICE CO., LTD.**

Address..... Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.

Testing location/ procedure Full application of Harmonised standards Partial application of Harmonised standards Other standard testing method **Applicant's name** ARCHETYPE LTD.

Address..... 11 HAWTHORNE RD, SHORT HILLS, NJ 07078 USA

Test specificationStandard **47 CFR PART 15 OCT, 2011, ANSI C63.4-2009,****Test Report Form No.** CTSEMC-1.0

TRF Originator CENTRE OF TESTING SERVICE CO., LTD.

Master TRF Dated 2009-01

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Test item description Pathlights

Trade Mark /

Manufacturer ARCHETYPE LTD.

Model/Type reference SNL

Ratings Battery 1.5V*3

Operating Frequency 315 MHz

Result **PASSED****Compiled by:**

Kate zhang / Fileadministators

Supervised by:

Duke yang / Technique principal

Approved by:

Vincent yao / Manager

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FCC ID -- T E S T R E P O R T

Test Report No. : **CNB3120919-01528-E**
27 Sep. 2012
 Date of issue

Type / Model..... SNL

EUT..... Pathlights

Applicant..... ARCHETYPE LTD.

Address..... 11 HAWTHORNE RD, SHORT HILLS, NJ 07078 USA

Telephone..... +0019739863698

Fax..... /

Contact..... JOSH SCHARF

Manufacturer..... ARCHETYPE LTD.

Address..... 11 HAWTHORNE RD, SHORT HILLS, NJ 07078 USA

Telephone..... +0019739863698

Fax..... /

Contact..... JOSH SCHARF

Factory ARCHETYPE LTD.

Address..... 11 HAWTHORNE RD, SHORT HILLS, NJ 07078 USA

Telephone..... +0019739863698

Fax..... /

Contact..... JOSH SCHARF

Test Result according to the standards on page 1: **PASSED**

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:

- **47 CFR PART 15 OCT, 2011**
- **ANSI C63.4-2009**

2. SUMMARY

2.1 GENERAL REMARKS

| | |
|--------------------------------|--------------|
| Date of receipt of test sample | 19 Sep. 2012 |
| Testing commenced on | 25 Sep. 2012 |
| Testing concluded on | 27 Sep. 2012 |

2.2 FINAL ASSESSMENT

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

- - fulfilled.
- **not** fulfilled.

The equipment under test

- - fulfils the FCC requirements cited on page 1.
- **does not** fulfil the FCC requirements cited on page 1.

3. EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage : Battery 1.5V*3
 Other

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:

For Radiation emission:

- TX +X position
- TX +Y position
- TX +Z position

Operation mode 1: TX +X position

Note: X position of EUT is the worst case, so only these test results be recorded in the test report.

3.4 EUT configuration

3.4.1. Description of configuration (EUT)

| | | |
|-----------------------|---|------------------|
| Description | : | Pathlights |
| Model Number | : | SNL |
| Operation frequency | : | 315 MHz |
| Radio Technology | : | FSK |
| Modulation Technology | : | FSK modulation |
| Antenna | : | Internal Antenna |

3.4.2. Tested Supporting System Details

N/A

4. TEST ENVIRONMENT

4.1 Address of the test laboratory

Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, 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 June 6, 2011.

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.791995, 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.

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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) |
| | 1GHz~18GHz | ±3.54dB | (1) |

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

5. Summary of standards and results

5.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | |
|-----------------------------|---|---------|
| Description of Test Item | Standard | Results |
| Conducted Emission Test | ANSI C63.4-2009 FCC Part 15 C: 15.207 RSS-Gen:7.2.4 | N/A |
| Radiated Emission Test | ANSI C63.4-2009 FCC Part 15 C: 15.231 RSS-Gen:7.2 RSS-210 A5 | PASSED |
| 20 dB Bandwidth Test | ANSI C63.4-2009 FCC Part 15 C: 15.231 RSS-Gen:4.6.3 | PASSED |
| Stop Transmitting Time Test | ANSI C63.4-2009 FCC Part 15 C: 15.231 | PASSED |

N/A is an abbreviation for Not Applicable.

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6. Power Line Conducted Emission Test

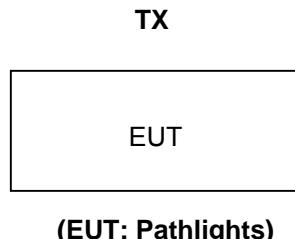
6.1.1 Description of the test location

Test location : Shielding Room

6.1.2 Test Equipment

| Conducted Disturbance | | | | | |
|-----------------------|-------------------|-----------------|-----------|------------|-----------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESHS10 | 842884/012 | 2011/12 |
| 2 | Artificial Mains | ROHDE & SCHWARZ | ESH3-Z5 | 832479/025 | 2011/12 |
| 3 | Artificial Mains | ROHDE & SCHWARZ | ESH3-Z5 | 832479/026 | 2011/12 |
| 4 | Pulse Limiter | ROHDE & SCHWARZ | ESHSZ2 | 100301 | 2011/12 |
| 5 | EMI Test Software | ROHDE & SCHWARZ | ESK1 | N/A | 2011/12 |

6.2.1 Block Diagram of Test Setup

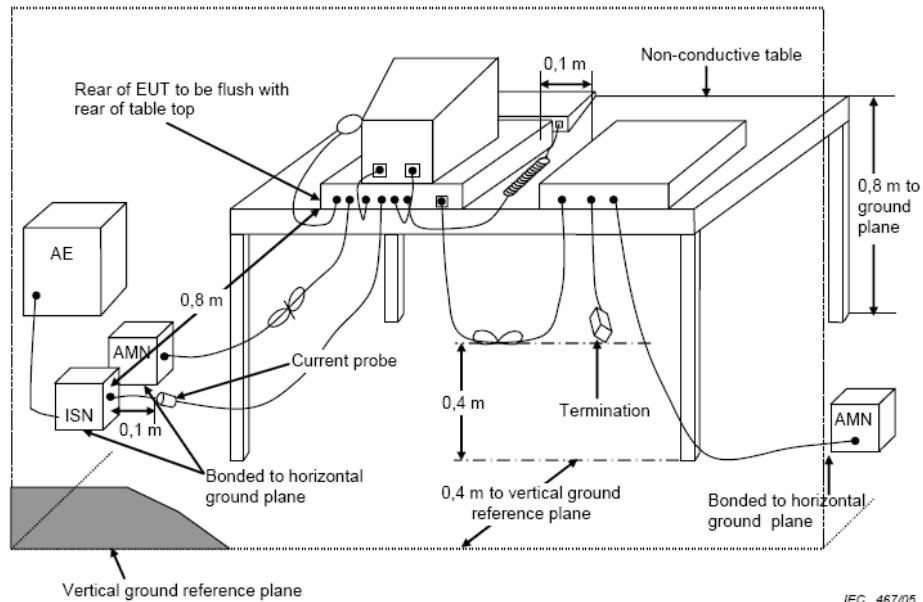


6.2.2 Description of the test set-up

6.1.2.1 Operating Condition

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

6.1.2.2 Block Diagram of Test Setup



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6.2.3 Limits of disturbance (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.

6.2.4 Power Line Conducted Emission Test Results

Power supply by battery , Not applicable.

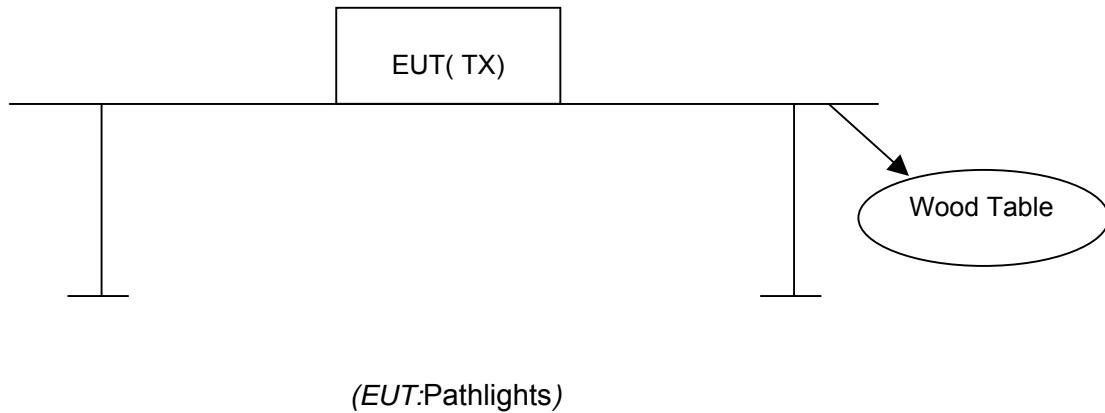
7. Radiated disturbance (electric field)

7.1. Test Equipment

| Radiated disturbance (electric field) | | | | | |
|---------------------------------------|-------------------|-----------------|------------|------------|-----------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 100868 | 2011/12 |
| 2 | Biconical Antenna | ROHDE & SCHWARZ | HK116 | 100221 | 2011/12 |
| 3 | Log per Antenna | ROHDE & SCHWARZ | HL223 | 100226 | 2011/12 |
| 4 | Log per Antenna | ROHDE & SCHWARZ | HL050 | 100186 | 2011/12 |
| 5 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2011/12 |
| 6 | Loop Antenna | A.R.A | PLA-1030/B | 1030 | 2011/12 |

7.2. Block Diagram of Test Setup

7.2.1 Block Diagram of connection between EUT and simulators



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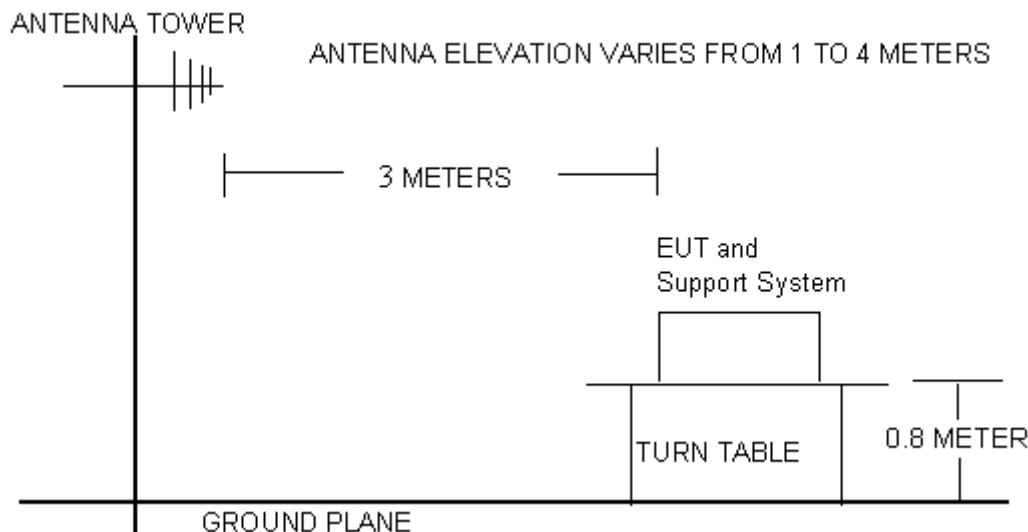
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7.2.2 Anechoic Chamber Setup Diagram



7.3.Radiated Emission Limit Standard: FCC 15.231,209

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|--|----------------|
| | | μ V/m | dB(μ V)/m |
| 0.009 ~ 0.490 | 3 | --- | --- |
| 0.490 1.705 | 3 | --- | --- |
| 1.705 30 | 3 | ---- | 49.5 |
| 30 ~ 88 | 3 | 100 | 40.0 |
| 88 ~ 216 | 3 | 150 | 43.5 |
| 216 ~ 960 | 3 | 200 | 46.0 |
| 960 ~ 1000 | 3 | 500 | 54.0 |
| Above 1000 | 3 | Other: 74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average) | |

Remark: (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.4. 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 ANSI C63.4-2009 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 and a Peak and Average detector with 1MHz RBW above 1GHz,

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All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector be calulated from peak value using duty cycle factor Both 30MHz to 1000MHz and above 1GHz

Pretest x, y, z position of EUT, final, select the worst case x position test and record the test results in the report.

The test modes (TX and RX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported on section 7.5

7.5.Radiated Emission Test Results

PASSED.

The frequency range from 9KHz to 30MHz,30MHz to 230MHz, 230MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

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| | | | |
|------------------|--------------|---------|--|
| Channel: | 315 MHz (TX) | Result: | <input checked="" type="checkbox"/> - passed |
| Frequency range: | 9KHz~30MHz | | <input type="checkbox"/> - not passed |

| | |
|---------------------|---|
| EUT | Pathlights |
| Operating Condition | BATTERY 1.5V*3 |
| Test Condition | Ambient Temperature: 25°C Humidity: 56% |
| Test Date: | 25 Sep. 2012 |
| Operator | Duke |
| MODEL NO | SNL |

| No. | Frequency (MHz) | Factor (dB/m) | Reading (dBuV) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|----------------|----------------|----------------|-------------|------|
| 1 | 15.8159 | 13.12 | 13.47 | 26.59 | 49.50 | -22.91 | AVG |
| 2 | 17.6790 | 13.57 | 16.63 | 30.20 | 49.50 | -19.30 | AVG |
| 3 | 20.6842 | 14.01 | 13.66 | 27.67 | 49.50 | -21.83 | AVG |
| 4 | 24.5307 | 14.82 | 14.06 | 28.88 | 49.50 | -20.62 | AVG |

Remark:Others frequency test result margin >10dB of the limit.

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| | | | |
|------------------|--------------|---------|--|
| Channel: | 315 MHz (TX) | Result: | <input checked="" type="checkbox"/> - passed |
| Test point: | Horizontal | | <input type="checkbox"/> - not passed |
| Frequency range: | 30MHz-12GHz | | |

| | |
|---------------------|---|
| EUT | Pathlights |
| Operating Condition | BATTERY 1.5V*3 |
| Test Condition | Ambient Temperature: 25°C Humidity: 56% |
| Test Date: | 25 Sep. 2012 |
| Operator | Duke |
| MODEL NO | SNL |

| Fundamental and Harmonics Average Result | | | | | | | |
|--|---------------|----------------------|----------------------------------|----------------------|----------------------|-------------|------|
| Frequency (MHz) | Factor (dB/m) | Reading (dB μ V) | Duty Cycle Correction Factor(dB) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Det. |
| 315.0000 | -13.53 | 72.45 | ----- | 58.92 | 95.62 | -36.70 | Peak |
| 315.0000 | -13.53 | 72.45 | -1.92 | 57.00 | 75.62 | -19.59 | AVG |

Note:Level=Reading+Facytor. Margin= Level- Limit.
Average Level=Peak level + Duty Factor

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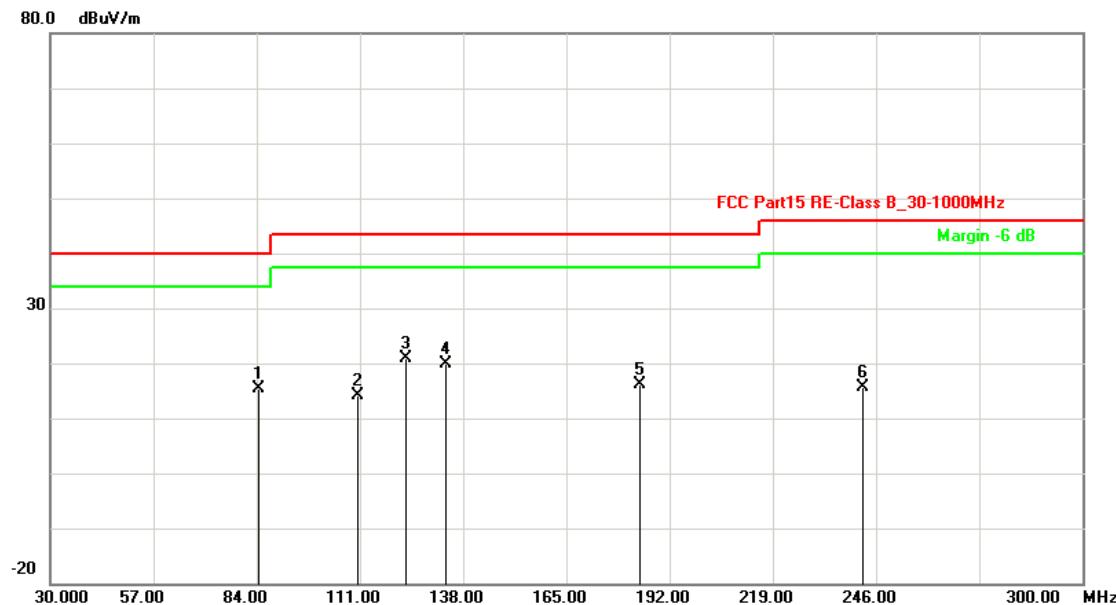
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Below 1GHz



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dB μ V/m) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------------|----------------------|----------------------|-------------|------|
| 1 | 84.6493 | -19.69 | 35.11 | 15.42 | 40.00 | -24.58 | QP |
| 2 | 110.6212 | -18.30 | 32.51 | 14.21 | 43.50 | -29.29 | QP |
| 3 | 123.0661 | -16.30 | 37.16 | 20.86 | 43.50 | -22.64 | QP |
| 4 | 133.3467 | -15.28 | 35.15 | 19.87 | 43.50 | -23.63 | QP |
| 5 | 184.2084 | -12.55 | 28.68 | 16.13 | 43.50 | -27.37 | QP |
| 6 | 242.6453 | -12.23 | 27.85 | 15.62 | 46.00 | -30.38 | QP |

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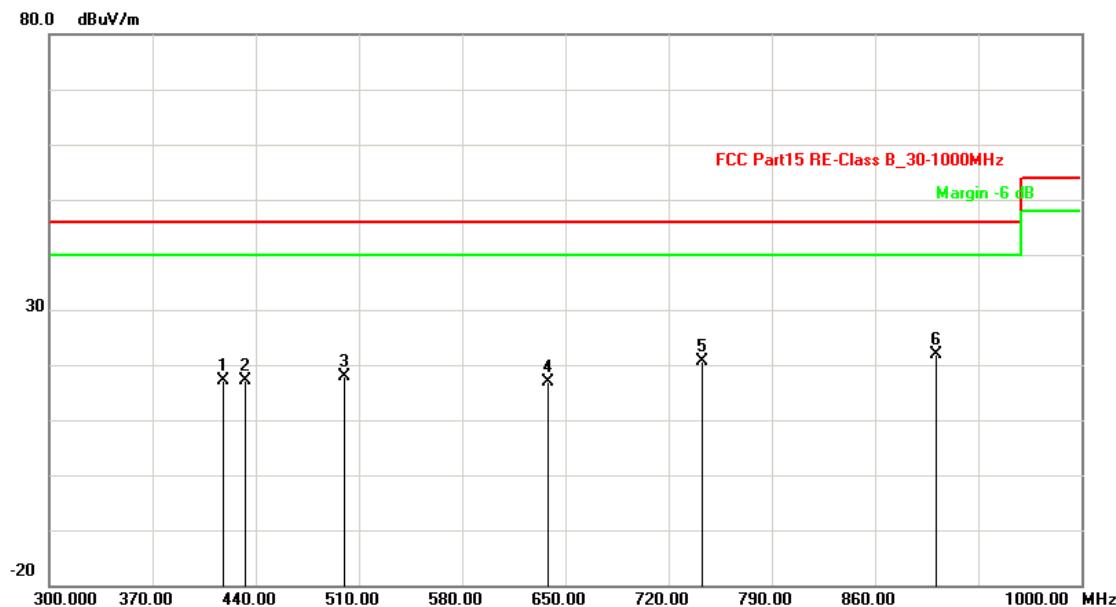
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| No. | Frequency (MHz) | Factor (dB/m) | Reading (dB μ V/m) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------------|----------------------|----------------------|-------------|------|
| 1 | 417.8357 | -14.66 | 31.77 | 17.11 | 46.00 | -28.89 | QP |
| 2 | 433.2665 | -14.13 | 31.14 | 17.01 | 46.00 | -28.99 | QP |
| 3 | 500.6012 | -10.68 | 28.50 | 17.82 | 46.00 | -28.18 | QP |
| 4 | 638.0762 | -11.66 | 28.57 | 16.91 | 46.00 | -29.09 | QP |
| 5 | 743.2866 | -7.43 | 28.13 | 20.70 | 46.00 | -25.30 | QP |
| 6 | 901.8036 | -5.32 | 27.32 | 22.00 | 46.00 | -24.00 | QP |

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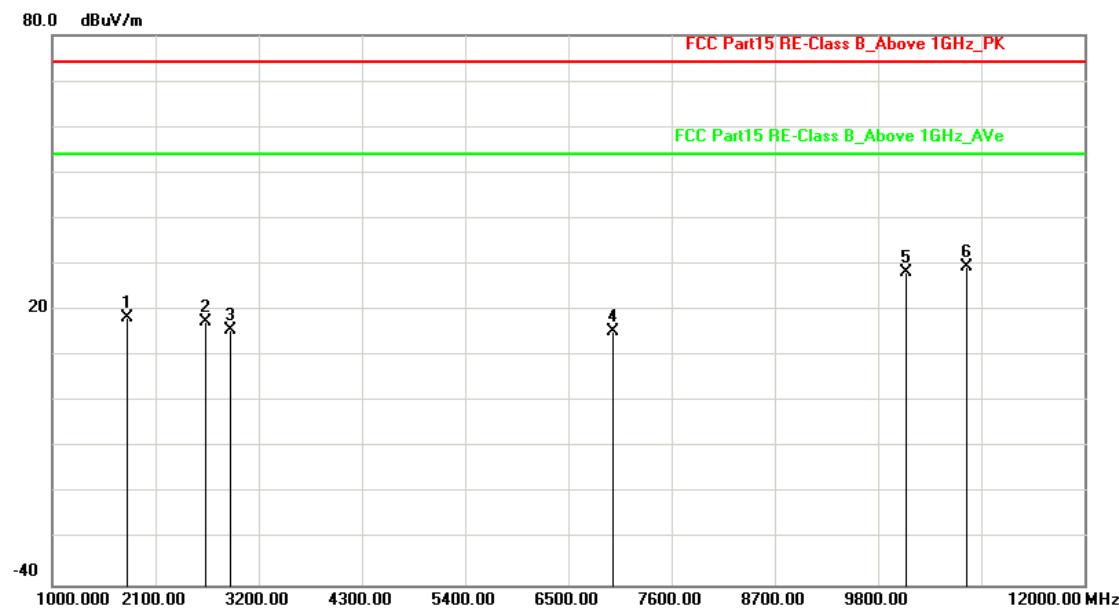
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Above 1GHz



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dB μ V/m) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------------|----------------------|----------------------|-------------|------|
| 1 | 1793.587 | -25.39 | 43.66 | 18.27 | 74.00 | -55.73 | peak |
| 2 | 2631.262 | -28.82 | 46.25 | 17.43 | 74.00 | -56.57 | peak |
| 3 | 2895.792 | -29.80 | 45.46 | 15.66 | 74.00 | -58.34 | peak |
| 4 | 6973.948 | -29.11 | 44.46 | 15.35 | 74.00 | -58.65 | peak |
| 5 | 10104.208 | -15.44 | 43.71 | 28.27 | 74.00 | -45.73 | peak |
| 6 | 10743.487 | -15.07 | 44.51 | 29.44 | 74.00 | -44.56 | peak |

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

Remark:Others frequency test result margin >10dB of the limit.

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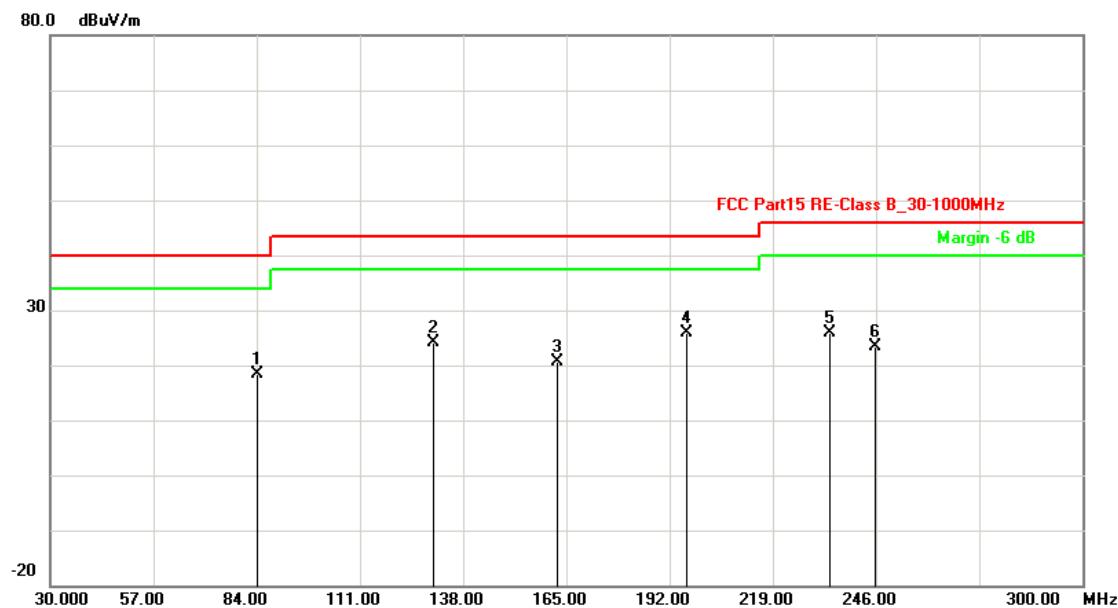
| | | | |
|------------------|--------------|---------|--|
| Channel: | 315 MHz (TX) | Result: | <input checked="" type="checkbox"/> - passed |
| Test point: | Vertical | | <input type="checkbox"/> - not passed |
| Frequency range: | 30MHz-12GHz | | |

| | |
|---------------------|---|
| EUT | Pathlights |
| Operating Condition | BATTERY 1.5V*3 |
| Test Condition | Ambient Temperature: 25°C Humidity: 56% |
| Test Date: | 25 Sep. 2012 |
| Operator | Duke |
| MODEL NO | SNL |

| Fundamental and Harmonics Average Result | | | | | | | |
|--|---------------|----------------------|----------------------------------|----------------------|----------------------|-------------|------|
| Frequency (MHz) | Factor (dB/m) | Reading (dB μ V) | Duty Cycle Correction Factor(dB) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Det. |
| 315.0000 | -13.53 | 70.04 | ----- | 56.51 | 95.62 | -39.11 | Peak |
| 315.0000 | -13.53 | 70.04 | -1.92 | 54.59 | 75.62 | -22.00 | AVG |

Note:Level=Reading+Factor. Margin= Level- Limit.
Average Level=Peak level + Duty Factor

Below 1GHz



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dB μ V/m) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------------|----------------------|----------------------|-------------|------|
| 1 | 84.1082 | -19.69 | 38.15 | 18.46 | 40.00 | -21.54 | QP |
| 2 | 130.1002 | -15.18 | 39.22 | 24.04 | 43.50 | -19.46 | QP |
| 3 | 162.5651 | -15.75 | 36.50 | 20.75 | 43.50 | -22.75 | QP |
| 4 | 196.6533 | -11.26 | 37.21 | 25.95 | 43.50 | -17.55 | QP |
| 5 | 233.9880 | -11.82 | 37.61 | 25.79 | 46.00 | -20.21 | QP |
| 6 | 245.8918 | -12.38 | 35.83 | 23.45 | 46.00 | -22.55 | QP |

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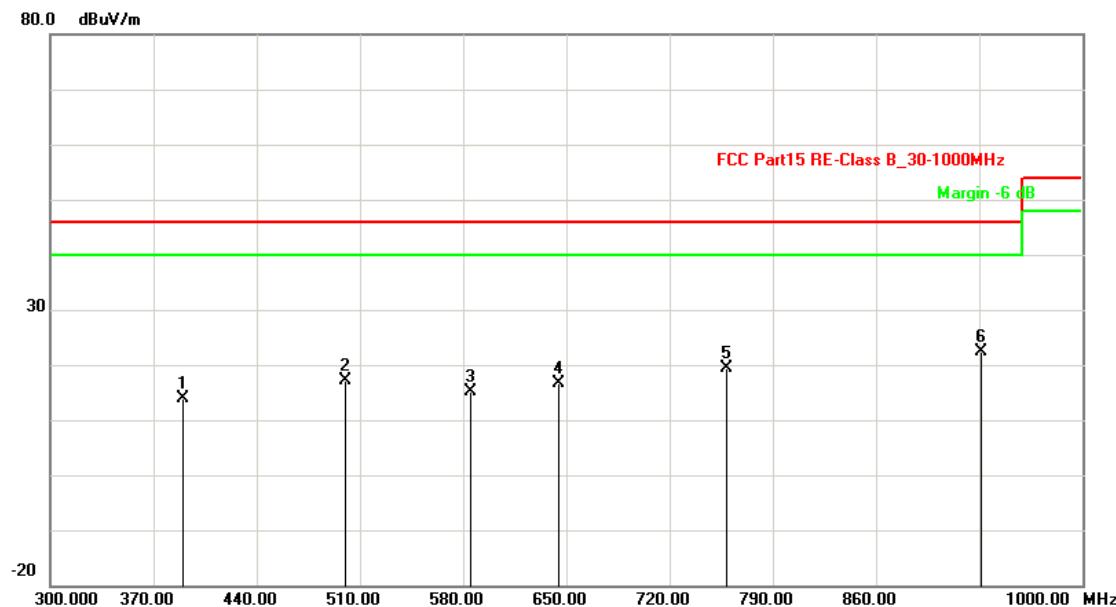
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| No. | Frequency (MHz) | Factor (dB/m) | Reading (dB μ V/m) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------------|----------------------|----------------------|-------------|------|
| 1 | 389.7796 | -14.98 | 28.98 | 14.00 | 46.00 | -32.00 | QP |
| 2 | 500.6012 | -10.68 | 27.91 | 17.23 | 46.00 | -28.77 | QP |
| 3 | 584.7695 | -13.03 | 28.25 | 15.22 | 46.00 | -30.78 | QP |
| 4 | 645.0902 | -11.67 | 28.25 | 16.58 | 46.00 | -29.42 | QP |
| 5 | 758.7174 | -6.97 | 26.30 | 19.33 | 46.00 | -26.67 | QP |
| 6 | 931.2625 | -9.05 | 31.46 | 22.41 | 46.00 | -23.59 | QP |

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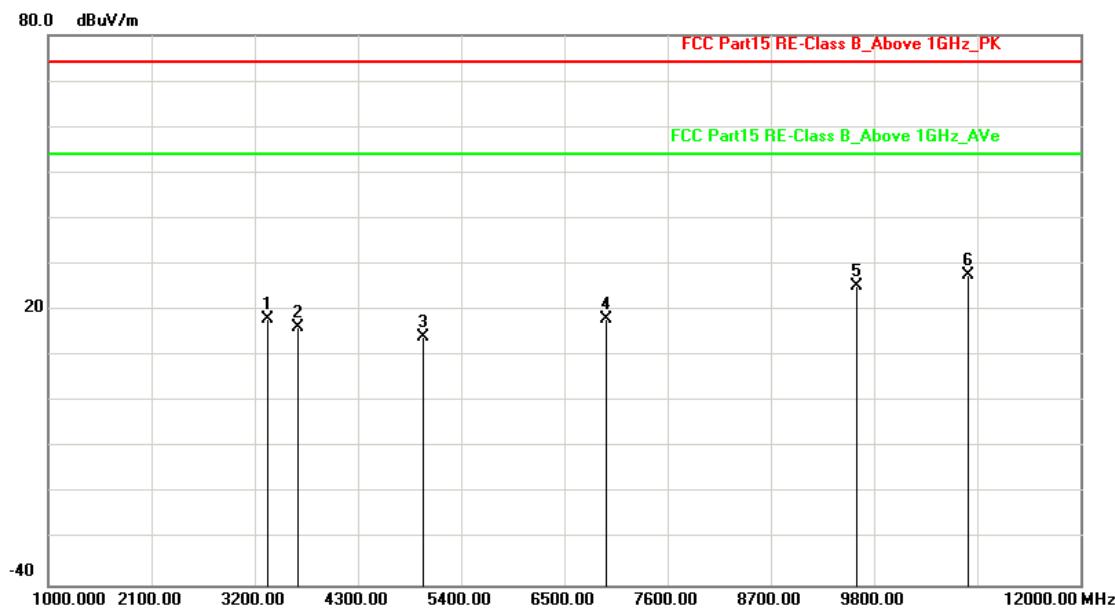
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Above 1GHz



| No. | Frequency (MHz) | Factor (dB/m) | Reading (dB μ V/m) | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Det. |
|-----|-----------------|---------------|------------------------|----------------------|----------------------|-------------|------|
| 1 | 3336.673 | -31.43 | 49.52 | 18.09 | 74.00 | -55.91 | peak |
| 2 | 3667.335 | -32.65 | 48.90 | 16.25 | 74.00 | -57.75 | peak |
| 3 | 4989.980 | -36.88 | 51.08 | 14.20 | 74.00 | -59.80 | peak |
| 4 | 6951.904 | -29.21 | 47.39 | 18.18 | 74.00 | -55.82 | peak |
| 5 | 9619.238 | -16.75 | 41.88 | 25.13 | 74.00 | -48.87 | peak |
| 6 | 10809.619 | -15.03 | 42.66 | 27.63 | 74.00 | -46.37 | peak |

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

Remark: Others frequency test result margin >10dB of the limit.

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8. 20 dB Bandwidth test

8.1. Test Equipment

| 20 dB Bandwidth test | | | | | |
|----------------------|-------------------|-----------------|-----------|------------|-----------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 10868 | 2011/12 |
| 2 | Log per Antenna | ROHDE & SCHWARZ | HL223 | 100226 | 2011/12 |
| 3 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2011/12 |

8.2. Test Information

| | |
|-----------------|---|
| EUT: | Pathlights |
| M/N: | SNL |
| Power supply: | BATTERY 1.5V*3 |
| Test Condition: | Ambient Temperature: 25°C Humidity: 56% |
| Test standard: | FCC PART 15C: 15.231 |
| Test mode: | Transmitting |
| Test Frequency: | 315 MHz |
| Test Date: | 25 Sep. 2012 |
| Test By: | Duke |

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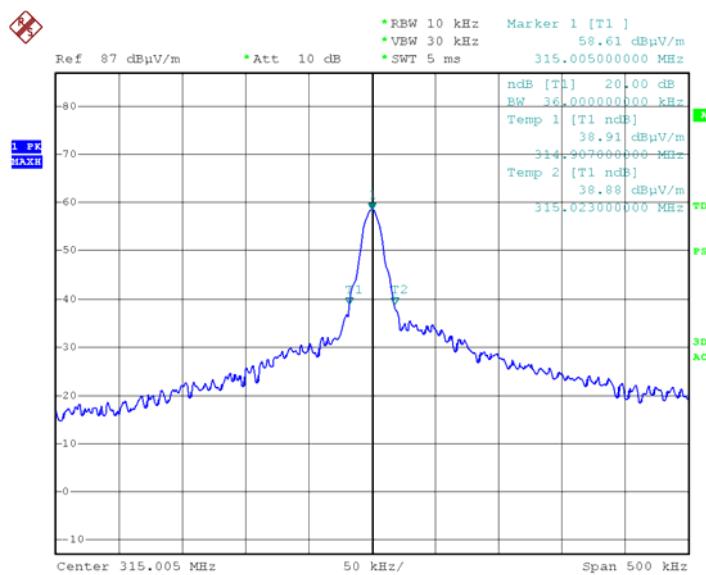
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8.3. Test Results

PASSED.

The testing data was attached in the next pages.

| Frequency (MHz) | 20 dB Bandwidth (kHz) | Limit(kHz): No wider than 0.25% of the center frequency | Conclusion |
|-----------------|-----------------------|---|------------|
| 315 | 36 | $315 \times 0.25\% = 0.7875\text{MHz}$ | PASSED |



Date: 27.SEP.2012 14:53:32

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9. Stop Transmitting Time Test

9.1. Test Equipment

| Band Edge Compliance test | | | | | |
|---------------------------|-------------------|-----------------|-----------|------------|-----------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 10868 | 2011/12 |
| 2 | Log per Antenna | ROHDE & SCHWARZ | HL223 | 100226 | 2011/12 |
| 3 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2011/12 |

9.2. Test Information

| | |
|-----------------|---|
| EUT: | Pathlights |
| M/N: | SNL |
| Power supply: | BATTERY 1.5V*3 |
| Test Condition: | Ambient Temperature: 25°C Humidity: 56% |
| Test standard: | FCC PART 15C: 15.231 |
| Test mode: | Transmitting |
| Test Frequency: | 315 MHz |
| Test Date: | 30 July 2012 |
| Test By: | Duke |

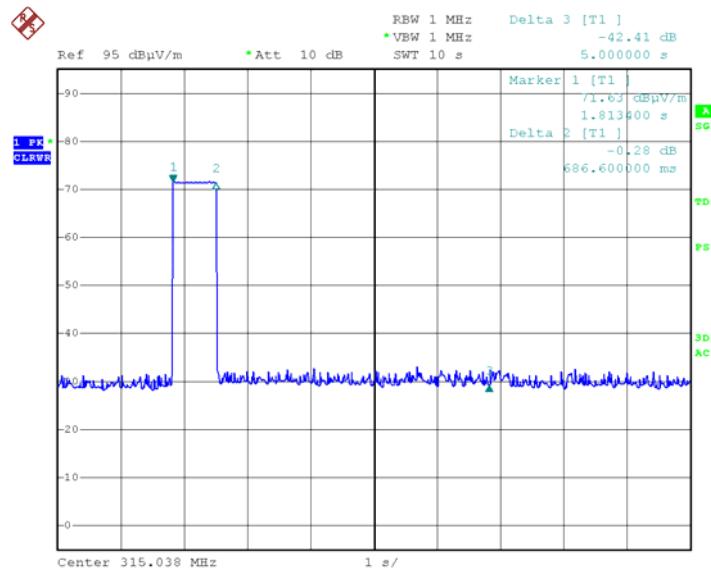
9.3. Test Results

PASSED.

The testing data was attached in the next pages.

Set the spectrum to zero span, activated the EUT automatically, And then, we could see the transmitting wave in the spectrum, when the time marker went to “1R”, released the EUT, After 686.6ms, we could see the EUT stop transmitting.

| Frequency (MHz) | Stop Transmitting Time | Limit: not more than 5 seconds of being released | Conclusion |
|-----------------|------------------------|--|------------|
| 315 | 686.6ms | 5s | PASSED |



Date: 25.SEP.2012 20:12:10

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10. Pulse Desensitization Correction Factor

10.1. Test Equipment

| Band Edge Compliance test | | | | | |
|---------------------------|-------------------|-----------------|-----------|------------|-----------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCI | 10868 | 2011/12 |
| 2 | Log per Antenna | ROHDE & SCHWARZ | HL223 | 100226 | 2011/12 |
| 3 | Signal analyzer | ROHDE & SCHWARZ | FSIQ26 | 100311 | 2011/12 |
| 4 | Spectrum | Agilent | E4446A | 44300459 | 2011/12 |

10.2 Test Information

| | |
|-----------------|---|
| EUT: | Pathlights |
| M/N: | SNL |
| Power supply: | BATTERY 1.5V*3 |
| Test Condition: | Ambient Temperature: 25°C Humidity: 56% |
| Test standard: | FCC PART 15C: 15.231 |
| Test mode: | Transmitting |
| Test Frequency: | 315 MHz |
| Test Date: | 25 Sep. 2012 |
| Test By: | Duke |

10.3. Test Results

PASSED.

The testing data was attached in the next pages.

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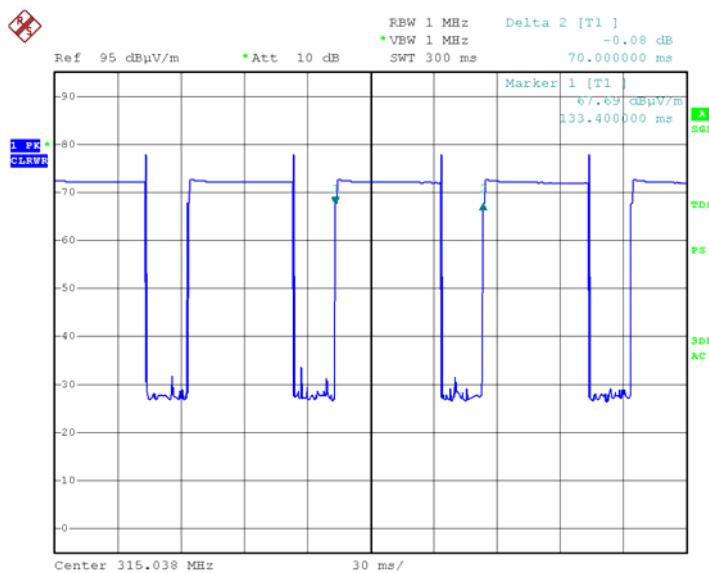
Tel: +86-20-85543113 (32 lines)

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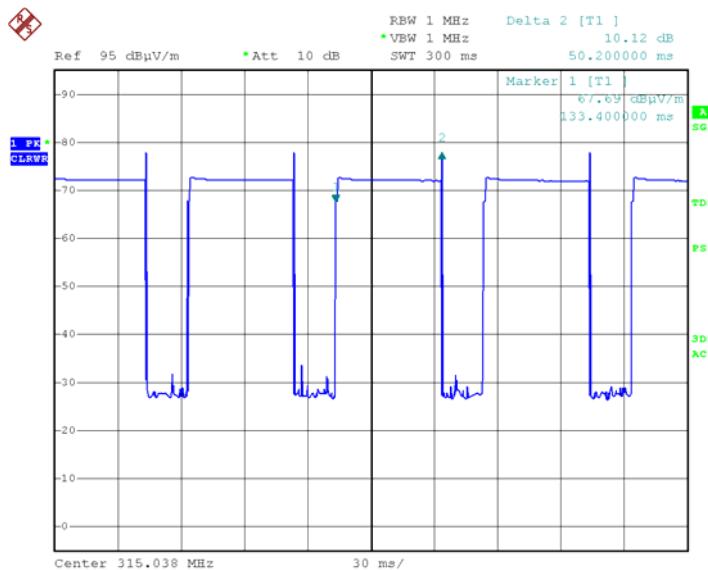
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Date: 25.SEP.2012 19:40:30



Date: 25.SEP.2012 19:41:23

Test Data

$Ton+off=686.6\text{ms}$ (which exceeds 0.1 seconds, and use the formula $Ton/100\text{ms}$ to calculate the duty-cycle correction factor)

$Ton=80.2\text{ms}$

$\text{Duty cycle Correction Factor}=20*\log(Ton/Ton+off)=20*\log(80.2\text{ms}/100\text{ms})=-1.92\text{ dB}$

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11. Manufacturer/ Approval holder Declaration

The following identical model(s):

N/A

Belong to the tested device:

Product description: **Pathlights**

Model name: **SNL**

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