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FCC TEST REPORT

Certification

Under:
FCC Part 15, Class B

Prepared For:

Grandstream Networks, Inc.

5F, Bldg #1, No.2 Kefa Rd., Science & Technology Park, Shenzhen, China

FCC ID: YZZGXV3611IR-HD

EUT: IP Camera

Model: GXV3611IR_HD

October 31, 2014

Issue Date:

Original Report

Report Type:

Eric Guo

Test Engineer: Eric Guo

Apollo Liu

Review By: Apollo Liu / Manager

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TABLE OF CONTENTS

| | |
|--|-----------|
| 1. General Information | 3 |
| 1. 1 Notes..... | 3 |
| 1. 2 Testing Laboratory..... | 3 |
| 1. 3 Details of Applicant..... | 3 |
| 1. 4 Application Details | 3 |
| 1. 5 Test Item | 3 |
| 1. 6 Test Standards..... | 3 |
| 2. Technical Test | 4 |
| 2. 1 Summary of Test Results | 4 |
| 3. EUT Modifications | 4 |
| 4. Conducted Power Line Test..... | 5 |
| 4. 1 Test Equipment..... | 5 |
| 4. 2 Test Procedure | 5 |
| 4. 3 Test Setup | 5 |
| 4. 4 Configuration of The EUT..... | 6 |
| 4. 5 EUT Operating Condition..... | 7 |
| 4. 6 Conducted Power Line Emission Limits | 7 |
| 4. 7 Conducted Power Line Test Result..... | 7 |
| 5. Radiated Emission Test..... | 10 |
| 5. 1 Test Equipment..... | 10 |
| 5. 2 Test Procedure | 10 |
| 5. 3 Radiated Test Setup | 10 |
| 5. 4 Configuration of The EUT..... | 11 |
| 5. 5 EUT Operating Condition..... | 11 |
| 5. 6 Radiated Emission Limit | 11 |
| 5. 7 Radiated Emission Test Result..... | 12 |
| 6. Photo of Testing | 16 |
| 6.1 Emission test view | 16 |
| 6.2 Photograph - EUT..... | 18 |
| 7. FCC Label..... | 23 |
| 8. Test Equipment..... | 24 |

1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1. 2 Testing Laboratory

Ke Mei Ou Laboratory Co., Ltd.

ANSI-ASQ National Accreditation Board/ACLASS ISO/IEC 17025 Accredited Lab for telecommunication standards. The Registration Number is AT-1532. The testing quality system meets with ISO/IEC-17025 requirements, This approval results is accepted by MRA of ILAC.

FCC Test Site Registration Number: 962205

IC Test Site Registration Number: 4986A-2

Email: kmo@kmolab.com

Internet: www.kmolab.com

1. 3 Details of Applicant

Name : Grandstream Networks, Inc.

Address : 5F, Bldg #1, No.2 Kefa Rd., Science & Technology Park, Shenzhen, China

1. 4 Application Details

Date of Receipt of Application : October 16, 2014

Date of Receipt of Test Item : October 16, 2014

Date of Test : October 21, ~October 31, 2014

1. 5 Test Item

| | |
|----------------------|--|
| Manufacturer | : Grandstream Networks, Inc. |
| Address | : 5F, Bldg #1, No.2 Kefa Rd., Science & Technology Park, Shenzhen, China |
| Trade Name | : Grandstream |
| Model No.(Base) | : GXV3611IR_HD |
| Model No.(Extension) | : N/A |
| Description | : IP Camera |

Additional Information

| | |
|--------------------|--|
| Frequency | : N/A |
| Number of Channels | : N/A |
| Power Supply | : 1#MODEL:WCF1200050A1BA INPUT:AC 100-240V 50/60Hz,0.15A OUTPUT:DC 12.0V/0.5A 2#MODEL:UE06L8-120050SPAU INPUT: AC 100-240V 50/60Hz,0.2A OUTPUT:DC 12.0V/0.5A |
| Operation Distance | : N/A |
| Resolution | : N/A |

1. 6 Test Standards

FCC 15 Subpart B

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

FCC 15 Subpart B: 2013, Class B

| Standard | Test Type | Result | Notes |
|-------------------------------|----------------|--------|----------|
| FCC Part 15, Paragraph 15.107 | Conducted Test | PASS | Complies |
| FCC Part 15, Paragraph 15.109 | Radiated Test | PASS | Complies |

3. EUT Modifications

No modification by test lab.

4. Conducted Power Line Test

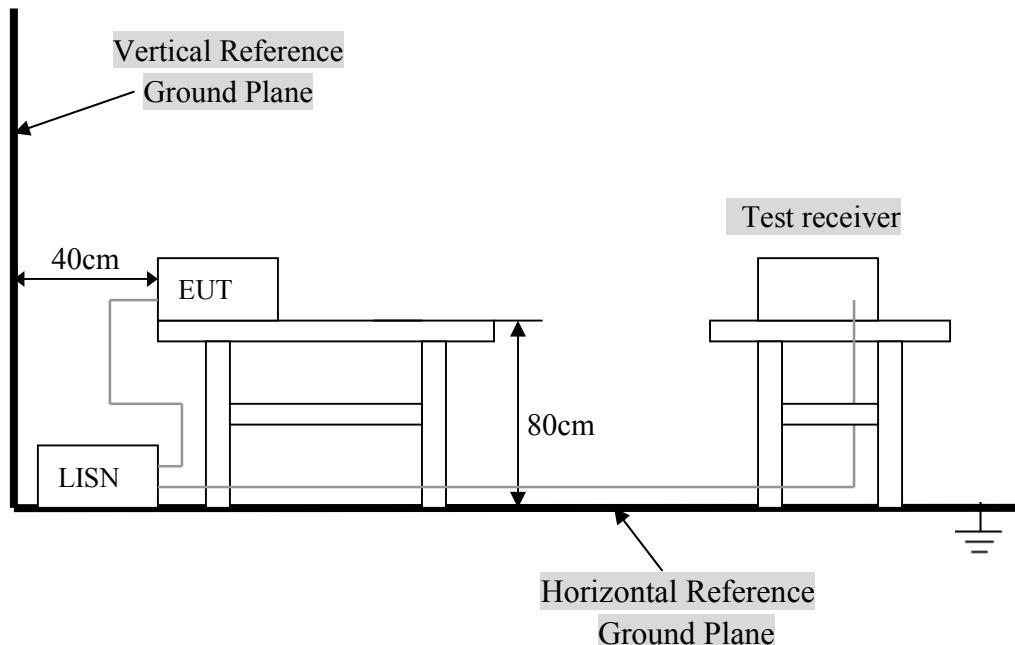
4.1 Test Equipment

Please refer to Section 8 this report.

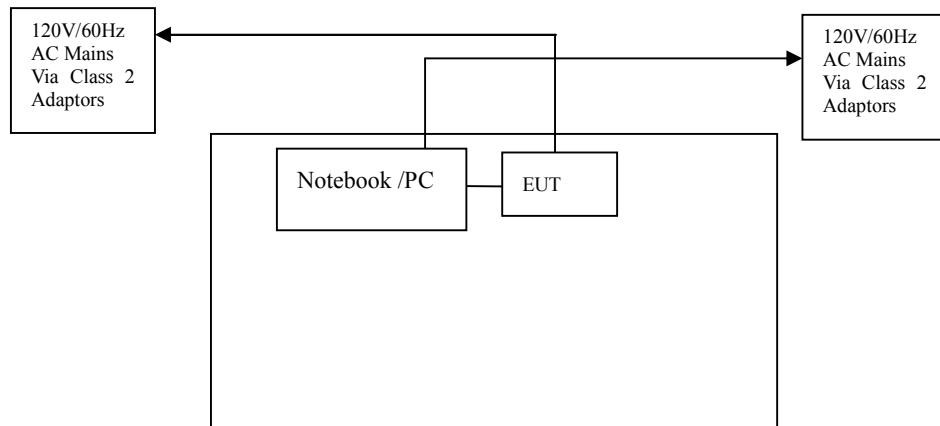
4.2 Test Procedure

The EUT was tested according to ANSI C63.4 - 2003. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 u-Henry as specified by section 5.1 OF ANSI C63.4 - 2003. cables and peripherals were moved to find the maximum emission levels for each frequency.

4.3 Test Setup



For the actual test configuration, Please refer to the related items – Photos of Testing.



4.4 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

| Device | Manufacturer | Model # | Type |
|-----------|----------------------------|--------------|------------------|
| IP Camera | Grandstream Networks, Inc. | GXV3611IR_HD | YZZ GXV3611IR-HD |

B. Internal Devices

| Device | Manufacturer | Model # | FCCID / DoC |
|--------|--------------|---------|-------------|
| N/A | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

C. Peripherals

| Device | Manufacturer | Model # Serial # | FCC ID/ DoC | Cable |
|----------|--------------|---------------------|----------------|---|
| Printer | HP | HP930C | DoC | 1.5m unshielded power cord 1.2m unshielded data cable. |
| Modem | GVC | N/A | DoC | 1.5m unshielded power cord 1.2m unshielded data cable. |
| Notebook | DELL | PP10L | DoC | 1.5m unshielded power cord |
| PC | Dell | 2400n | DoC | 1.5m unshielded power cord |

4.5 EUT Operating Condition

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

4.6 Conducted Power Line Emission Limits

| Frequency Range (MHz) | Class A QP/AV (dBuV) | Class B QP/AV (dBuV) |
|-----------------------|----------------------|----------------------|
| 0.15 – 0.5 | 79/66 | 66 – 56/56 – 46 |
| 0.5 – 5.0 | 73/60 | 56/46 |
| 5.0 – 30 | 73/60 | 60/50 |

Note: In the above table, the tighter limit applies at the band edges.

4.7 Conducted Power Line Test Result

The frequency spectrum from 0.15 MHz to 30 MHz was investigated. All readings are quasi -peak values with a resolution bandwidth of 9 KHz.

- Temperature : 26 °C
- Humidity : 53 % RH
- Result : **PASSED**

Power Adapter Model: WCF1200050A1BA

| FCC Part 15 Paragraph 15.107 | | | | | | | |
|------------------------------|-----------------|-------|---------------|--------------|-------|-------------|--------|
| Frequency (MHz) | Emission (dBuV) | | LINE/ NEUTRAL | Limit (dBuV) | | Margin (dB) | |
| | QP | AV | | QP | AV | QP | AV |
| 0.374 | 42.82 | 34.56 | Line | 58.41 | 48.41 | -15.59 | -13.85 |
| 0.374 | 42.26 | 31.57 | Neutral | 58.41 | 48.41 | -16.15 | -16.84 |
| 0.394 | 41.92 | 32.56 | Line | 57.98 | 47.98 | -16.06 | -15.42 |
| 0.390 | 40.16 | 32.46 | Neutral | 58.06 | 48.06 | -17.90 | -15.60 |
| 10.730 | 34.85 | 24.76 | Line | 60.00 | 50.00 | -25.15 | -25.24 |
| 15.466 | 48.74 | 38.29 | Neutral | 60.00 | 50.00 | -11.26 | -11.71 |

Note: NF = No Significant Peak was Found.

Power Adapter Model: UE06L8-120050SPAU

| FCC Part 15 Paragraph 15.107 | | | | | | | |
|------------------------------|-----------------|-------|---------------|--------------|-------|-------------|--------|
| Frequency (MHz) | Emission (dBuV) | | LINE/ NEUTRAL | Limit (dBuV) | | Margin (dB) | |
| | QP | AV | | QP | AV | QP | AV |
| 0.338 | 42.56 | 36.15 | Line | 59.25 | 49.25 | -16.69 | -13.10 |
| 0.162 | 38.64 | 29.16 | Neutral | 65.36 | 55.36 | -26.72 | -26.20 |
| 0.354 | 40.57 | 32.94 | Line | 58.87 | 48.87 | -18.30 | -15.93 |
| 0.338 | 38.59 | 30.54 | Neutral | 59.25 | 49.25 | -20.66 | -18.71 |
| 1.118 | 34.39 | 26.08 | Line | 56.00 | 46.00 | -21.61 | -19.92 |
| 0.654 | 31.48 | 25.47 | Neutral | 56.00 | 46.00 | -24.52 | -20.53 |

Note: NF = No Significant Peak was Found.

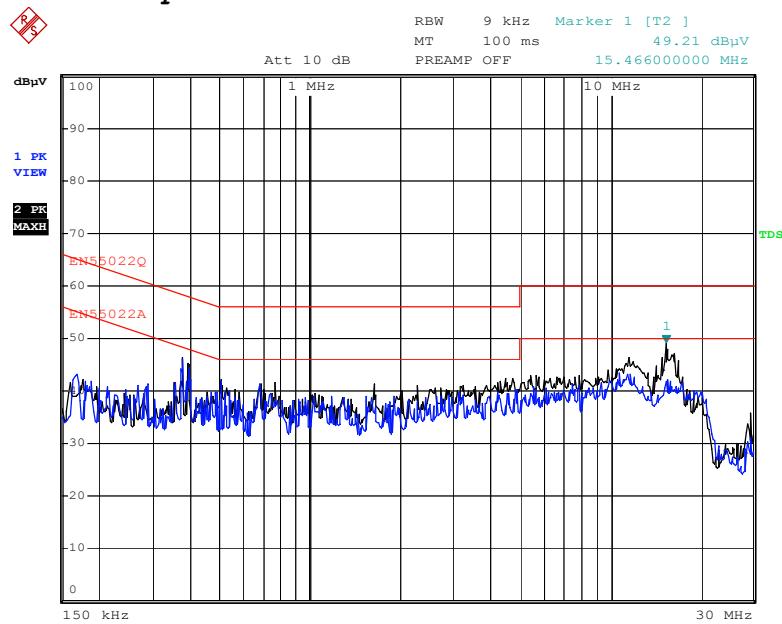
POE

| FCC Part 15 Paragraph 15.107 | | | | | | | |
|------------------------------|-----------------|-------|---------------|--------------|-------|-------------|--------|
| Frequency (MHz) | Emission (dBuV) | | LINE/ NEUTRAL | Limit (dBuV) | | Margin (dB) | |
| | QP | AV | | QP | AV | QP | AV |
| 0.158 | 50.94 | 37.46 | Line | 65.57 | 55.57 | -14.63 | -18.11 |
| 0.154 | 49.56 | 36.27 | Neutral | 65.78 | 55.78 | -16.22 | -19.51 |
| 0.17 | 44.76 | 30.48 | Line | 64.96 | 54.96 | -20.20 | -24.48 |
| 0.182 | 46.76 | 33.74 | Neutral | 64.39 | 54.39 | -17.63 | -20.65 |
| 1.094 | 42.67 | 40.16 | Line | 56.00 | 46.00 | -13.33 | -5.84 |
| 1.094 | 42.37 | 40.18 | Neutral | 56.00 | 46.00 | -13.63 | -5.82 |

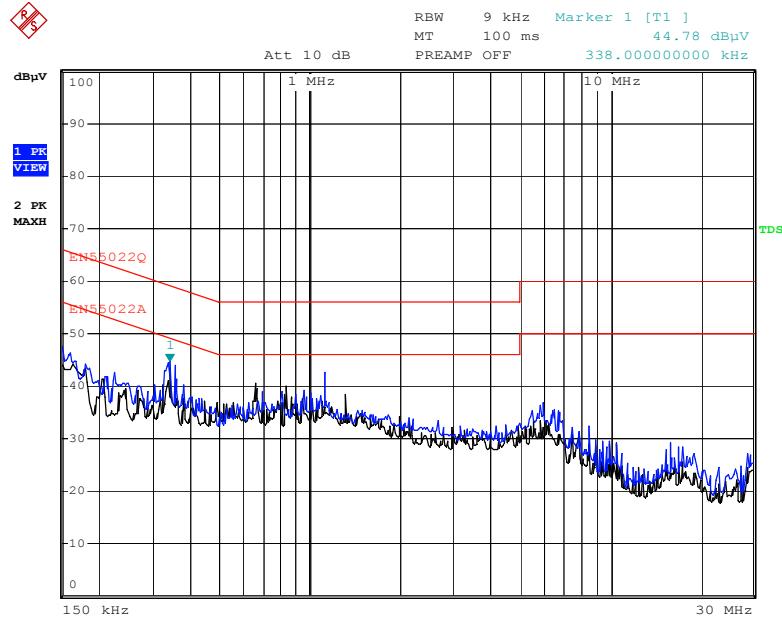
Note: NF = No Significant Peak was Found

Remarks :

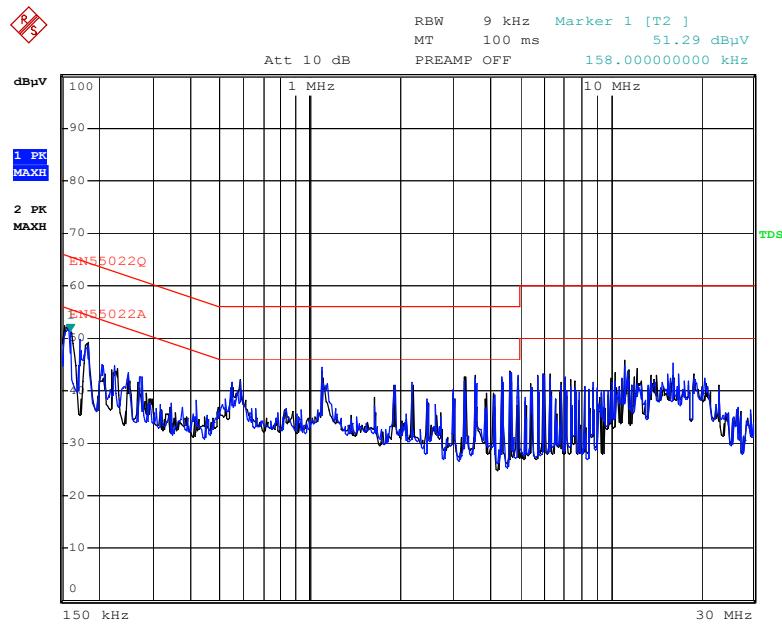
- Uncertainty in conducted emission measured is $<+/- 2$ dB.
- QP and AV are abbreviations of quasi-peak and average individually.
- The emission levels of other frequencies were very low against the limit.
- The Quasi-peak emission level also meets average limit and measurement with the average detector is unnecessary.
- Margin Value= Emission Level – Limit Value

Conducted Emission**FCC15.107***EUT: IP Camera**M/N: GXV3611IR_HD**Manufacturer: Grandstream Networks, Inc.**Operating Condition: Normal**Test Site: Ke Mei Ou Lab**Operator:**Test Specification: LINE&NEUTRAL**Comment:***Power Adapter Model: WCF1200050A1BA**

Date: 22.OCT.2014 13:55:06

Power Adapter Model: UE06L8-120050SPAU

Date: 22.OCT.2014 15:23:09

POE

Date: 22.OCT.2014 15:39:05

5. Radiated Emission Test

5. 1 Test Equipment

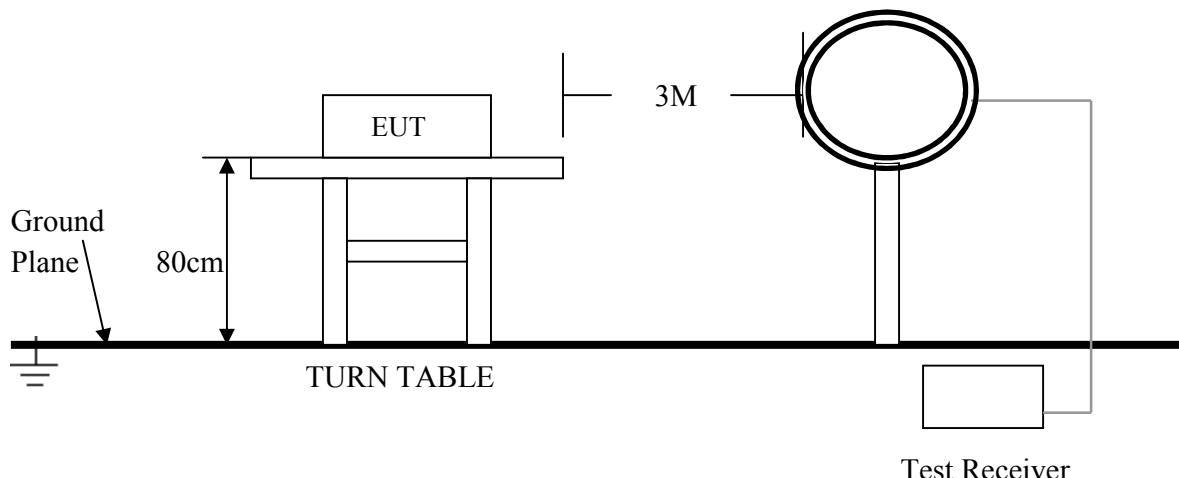
Please refer to Section 8 this report.

5. 2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 2003.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
3. The frequency spectrum from 9 kHz to 25 GHz was investigated. All readings from 9 kHz to 150 kHz are quasi-peak values with a resolution bandwidth of 200 Hz. All readings from 150 kHz to 30 MHz are quasi-peak values with a resolution bandwidth of 9 KHz. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
4. The emissions from the EUT were measured continuously at every azimuth by rotating the turntable. The Receiving antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency. Emissions below 30MHz were measured with a loop antenna while emission above 30MHz were measured using a broadband E-field antenna.
5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4 - 2003.

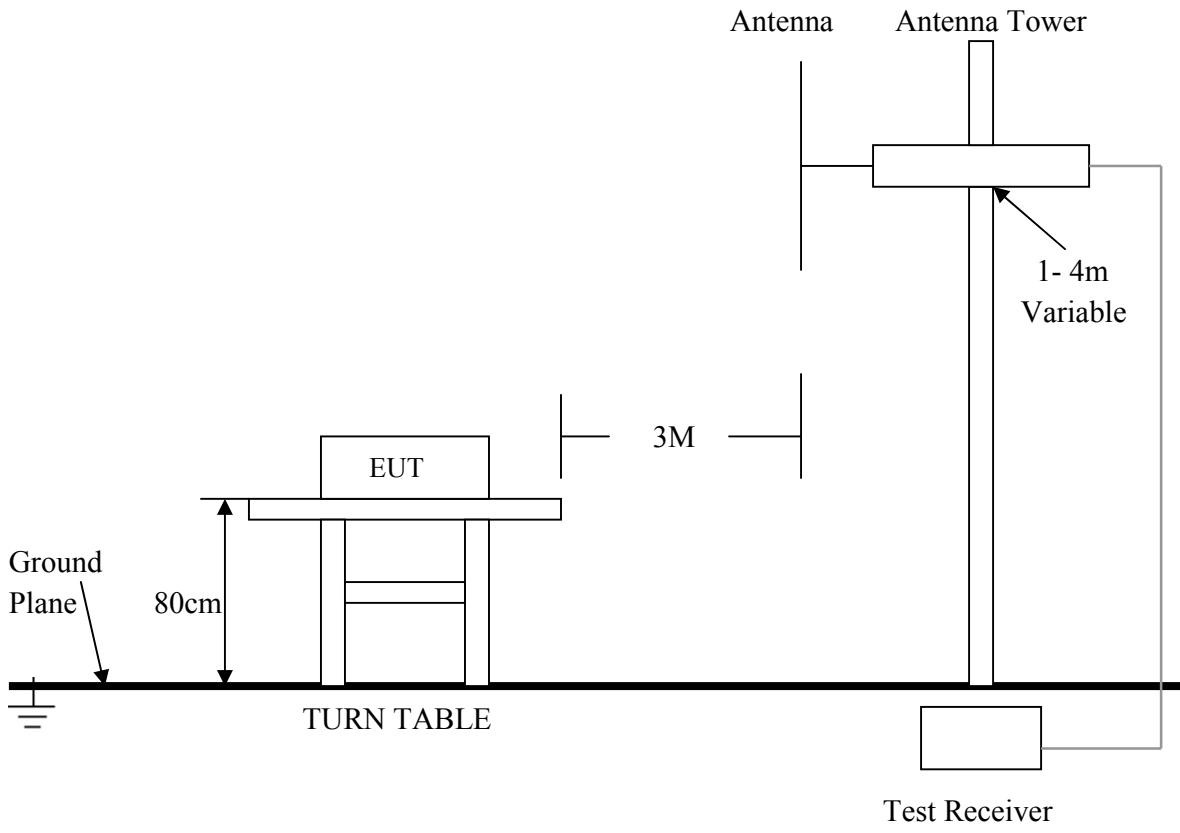
5. 3 Radiated Test Setup

For Frequencies below 30 MHz



For the actual test configuration , please refer to the related items – Photos of Testing

For Frequencies above 30 MHz



For the actual test configuration , please refer to the related items – Photos of Testing

5.4 Configuration of The EUT

Same as section 4.4 of this report

5.5 EUT Operating Condition

Same as section 4.5 of this report

5.6 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.109.

| Frequency (MHz) | Distance (m) | Field Strength (dBuV/m) |
|-----------------|--------------|-------------------------|
| 30 - 88 | 3 | 40.0 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note:

1. In the emission tables above, the tighter limit applies at the band edges.
2. Distance refers to the distance between measuring instrument, antenna, and the closest point of any part of the device or system.
3. The lower limit shall apply at the transition frequencies.

5. 7 Radiated Emission Test Result

The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.

- Temperature : 24 °C
- Humidity : 56 %RH
- Result : **PASSED**

For Frequency Below 30MHz

Power Adapter Model:

| Freq. (MHz) | Emission (dBuV/m) QP Detector | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
|----------------|----------------------------------|-----------------|--------------------|----------------|
| N/A | N/A | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

- Note:**
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
 - (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
 - (3) Emission Level = Reading Level + Probe Factor + Cable Loss.

For Frequency Above 30MHz

Power Adapter Model: WCF1200050A1BA

| FCC Part 15 Paragraph 15.109 | | | | |
|------------------------------|----------------------|-----------------|--------------------|----------------|
| Freq. (MHz) | Emission (dBuV/m) | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
| 360.680 | 39.28 | Horiz./ | 46.0 | -6.72 |
| 39.640 | 34.49 | Vert. | 40.0 | -5.51 |
| 383.480 | 40.29 | Horiz./ | 46.0 | -5.71 |
| 466.320 | 43.42 | Vert. | 46.0 | -2.58 |
| 730.760 | 37.83 | Horiz./ | 46.0 | -8.17 |
| 662.680 | 42.37 | Vert. | 46.0 | -3.63 |

Note: NF = No Significant Peak was Found.

Power Adapter Model: UE06L8-120050SPAU

| FCC Part 15 Paragraph 15.109 | | | | |
|------------------------------|----------------------|-----------------|--------------------|----------------|
| Freq. (MHz) | Emission (dBuV/m) | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
| 398.000 | 32.06 | Horiz./ | 46.0 | -13.94 |
| 47.800 | 34.57 | Vert. | 40.0 | -5.43 |
| 610.840 | 35.42 | Horiz./ | 46.0 | -10.58 |
| 466.360 | 44.06 | Vert. | 46.0 | -1.94 |
| 687.360 | 36.63 | Horiz./ | 46.0 | -9.37 |
| 662.680 | 43.01 | Vert. | 46.0 | -2.99 |

Note: NF = No Significant Peak was Found.

POE

| FCC Part 15 Paragraph 15.109 | | | | |
|------------------------------|----------------------|-----------------|--------------------|----------------|
| Freq. (MHz) | Emission (dBuV/m) | HORIZ / VERT | Limits (dBuV/m) | Margin (dB) |
| 250.000 | 39.72 | Horiz./ | 46.0 | -6.28 |
| 148.120 | 39.58 | Vert. | 43.5 | -3.92 |
| 625.040 | 42.35 | Horiz./ | 46.0 | -3.65 |
| 250.000 | 44.25 | Vert. | 46.0 | -1.75 |
| 875.040 | 42.03 | Horiz./ | 46.0 | -3.97 |
| 466.320 | 43.86 | Vert. | 46.0 | -2.14 |

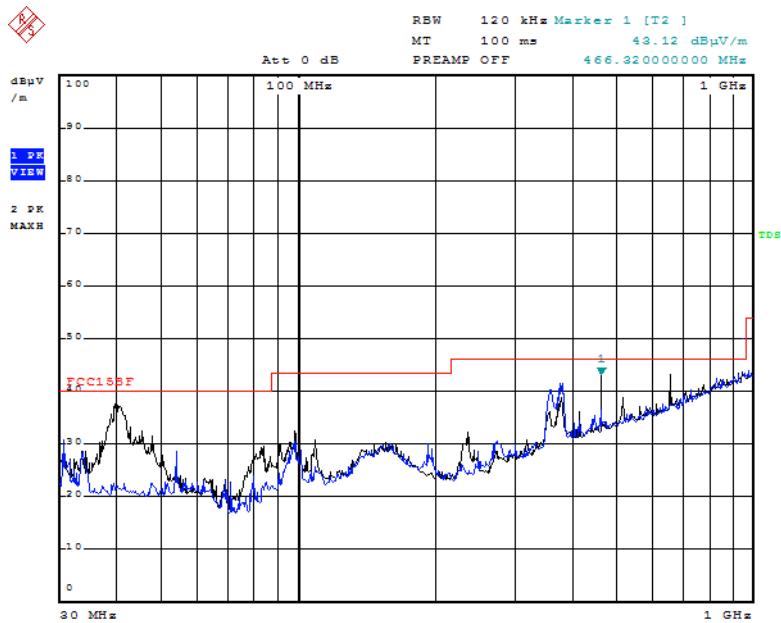
Note: NF = No Significant Peak was Found.

For Frequency Above 1GHz*Power Adapter Model: WCF1200050A1BA*

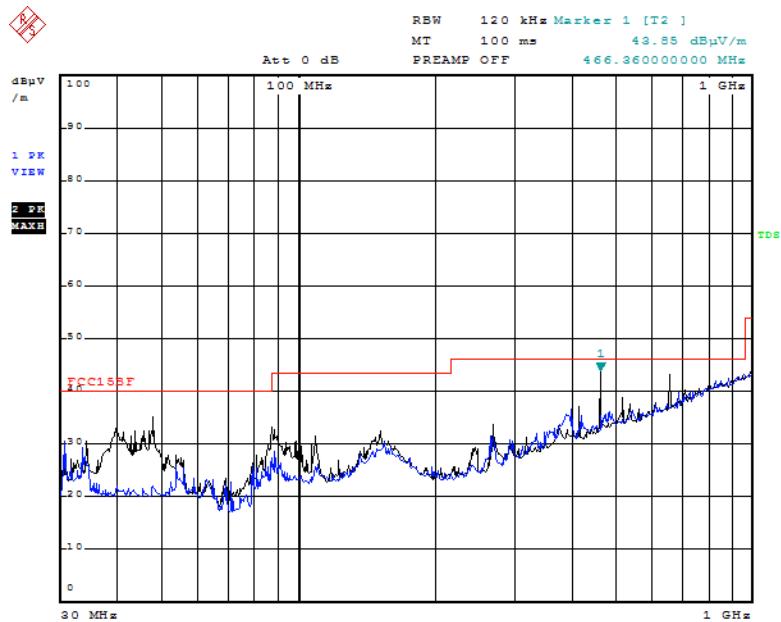
| FCC15 Class B | | | | | | | |
|--------------------|-----------------|----|------------------|--------------|----|-------------|----|
| Frequency (GHz) | Emission (dBuV) | | Telecom Ports | Limit (dBuV) | | Margin (dB) | |
| | PK | AV | | PK | AV | PK | AV |
| 2.0128 | 50.43 | - | Horiz./ | 74 | 54 | -23.57 | - |
| 2.0132 | 48.62 | - | Vert. | 74 | 54 | -25.38 | - |
| 2.1508 | 45.72 | - | Horiz./ | 74 | 54 | -28.28 | - |
| 2.2808 | 46.36 | - | Vert. | 74 | 54 | -27.64 | - |
| 2.3540 | 50.32 | - | Horiz./ | 74 | 54 | -23.68 | - |
| 2.3556 | 48.96 | - | Vert. | 74 | 54 | -25.04 | - |

Note:

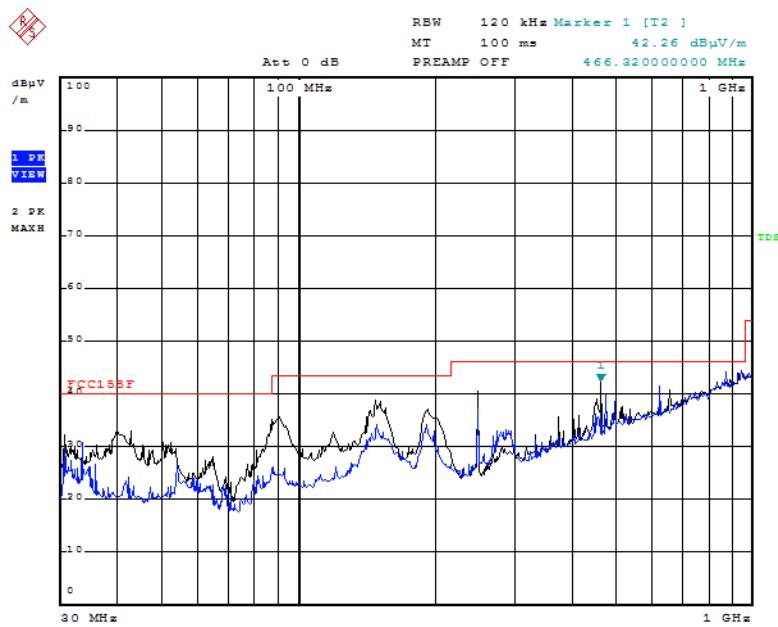
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- (2) "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- (3) Emission Level = Reading Level + Probe Factor + Cable Loss.

Radiated Emission*Comment: Above 30MHz***Power Adapter Model: WCF1200050A1BA**

Date: 23.OCT.2014 11:08:34

Power Adapter Model: UE06L8-120050SPAU

Date: 23.OCT.2014 11:45:51

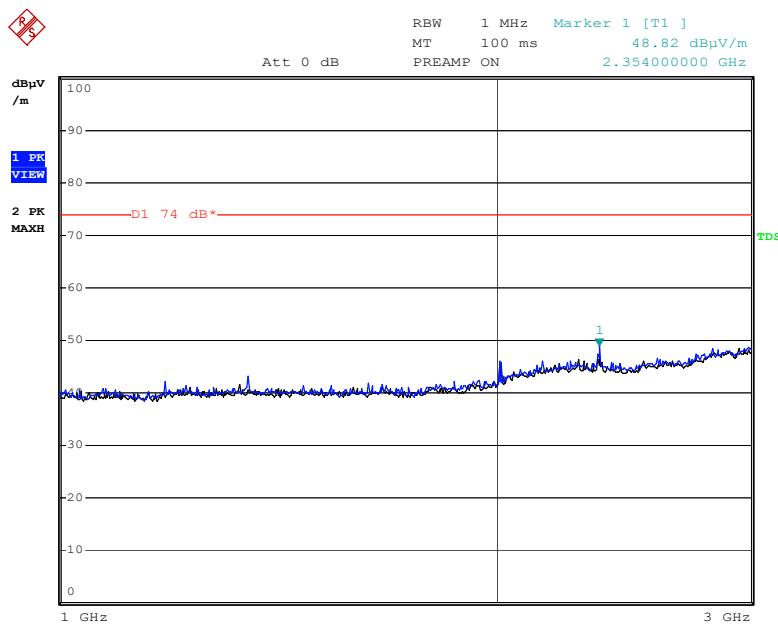
POE

Date: 23.OCT.2014 15:09:58

Radiated Emission

Comment: Above 1GHz

Power Adapter Model: WCF1200050A1BA



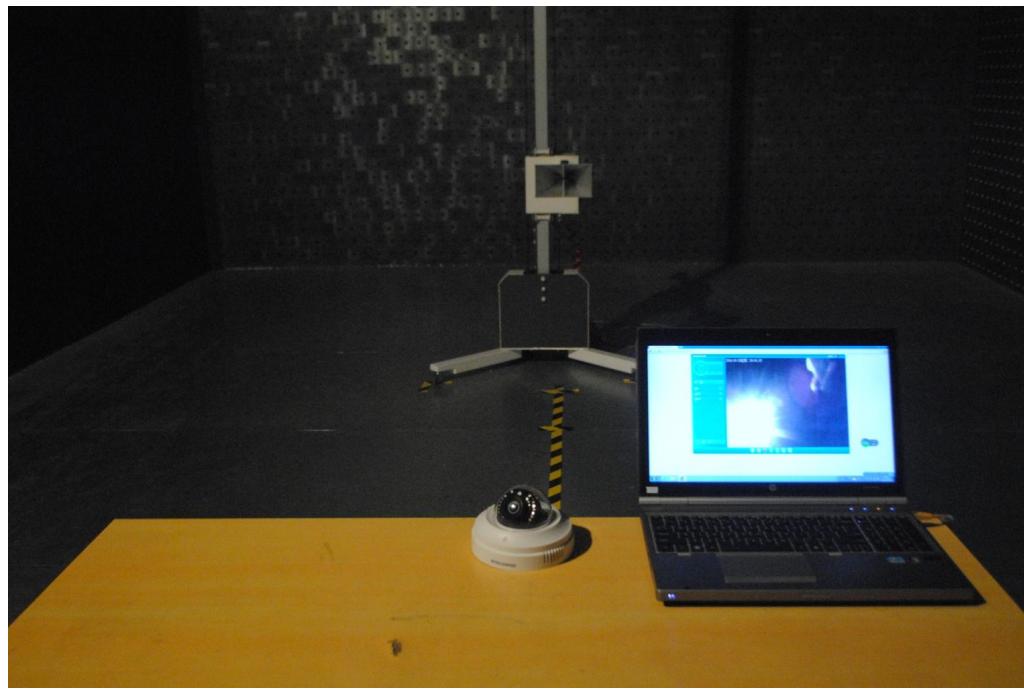
Date: 23.OCT.2014 17:18:22

6. Photo of Testing

6.1 Emission test view

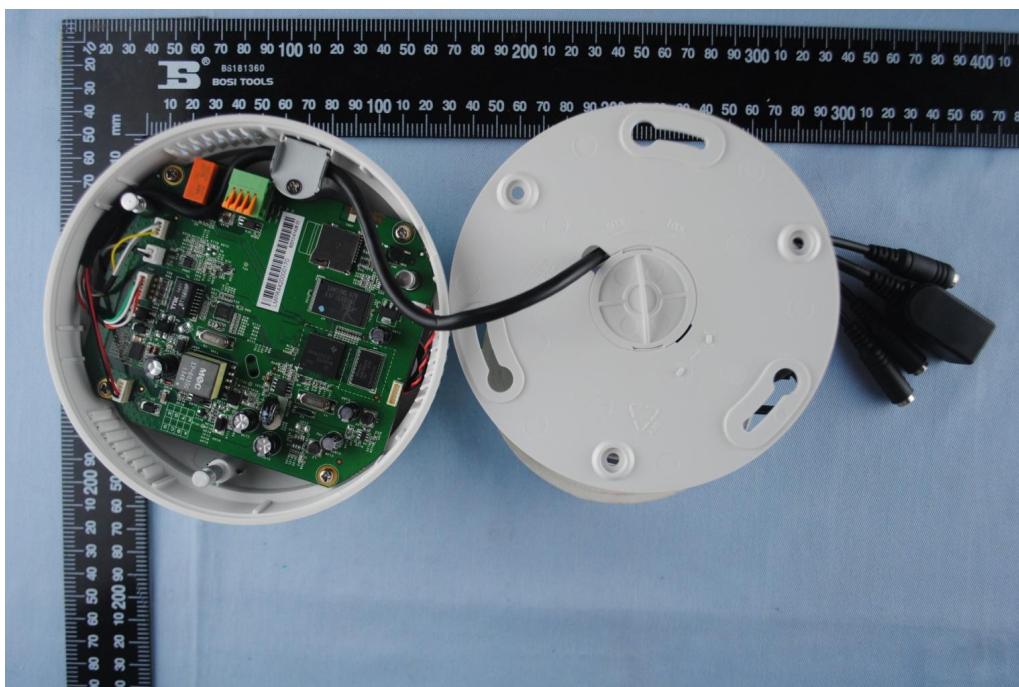


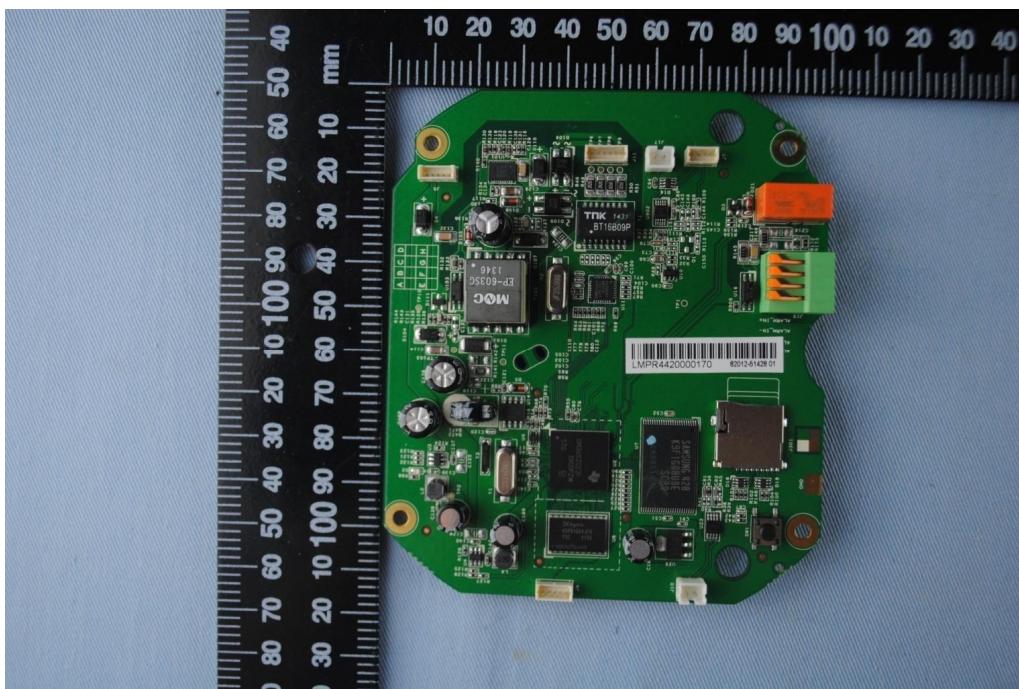
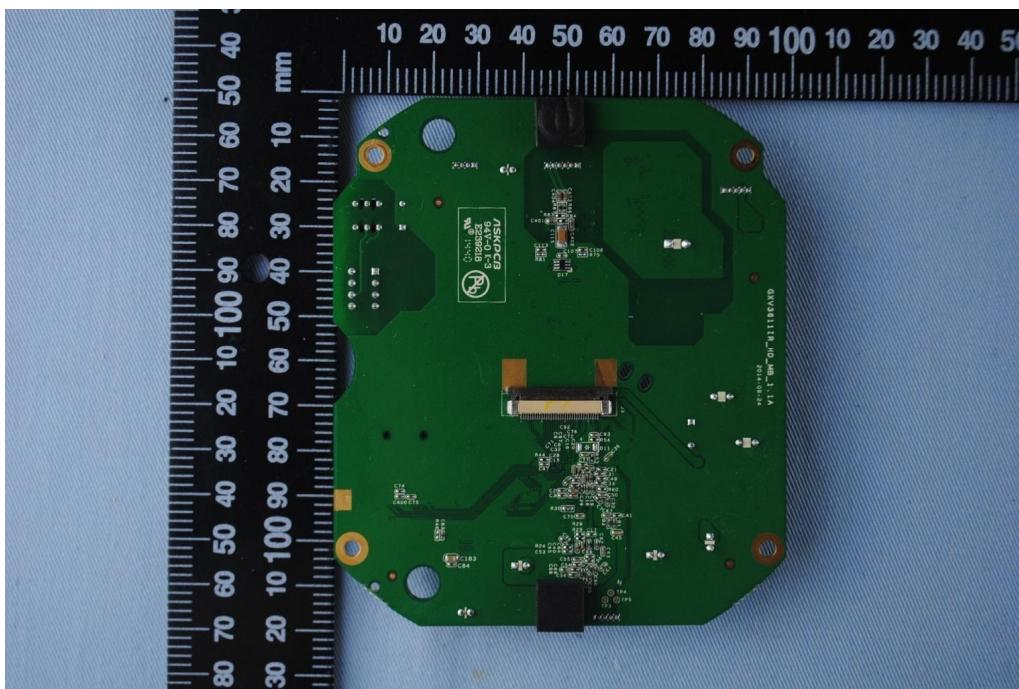
Radiated Emission

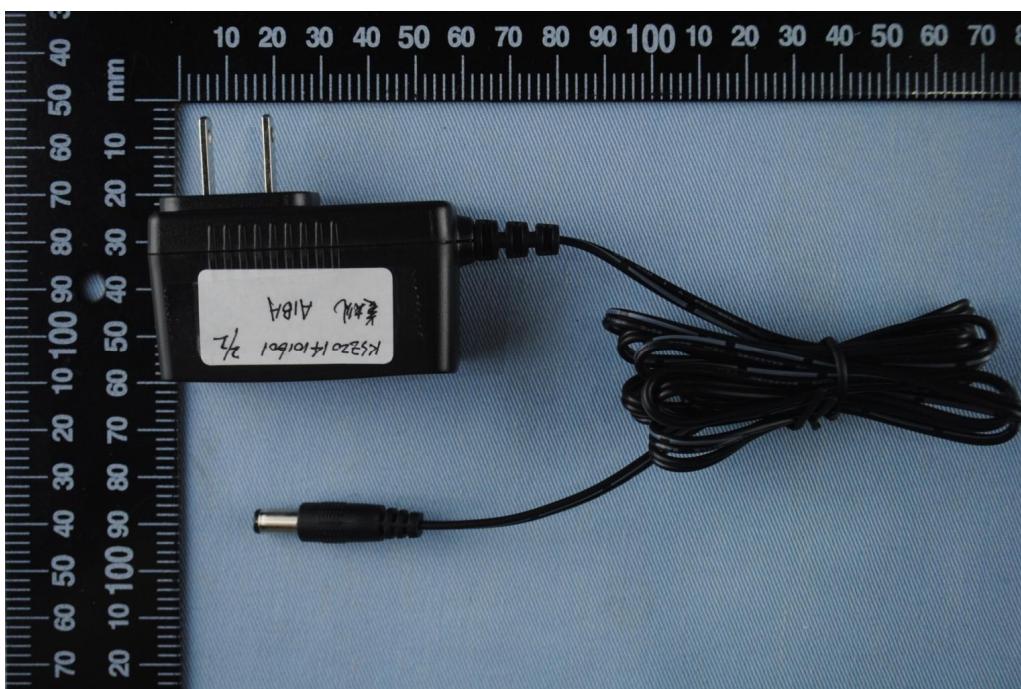


6.2 Photograph - EUT



EUT bottom view**EUT inside whole view**

Main board component side**Main board solder side**

Adapter top view (WCF1200050A1BA)**Adapter side view**

Adapter top view (UE06L8-120050SPAU)



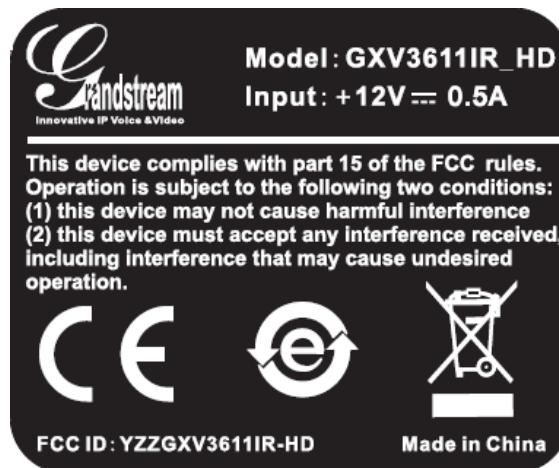
Adapter side view (UE Power Supply-USA)



7. FCC Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper label. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.



Proposed Label Location on EUT

EUT Bottom View/Proposed FCC Mark Location



8. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

| Equipment/ Facilities | Manufacturer | Model # | Serial No. | Due Date |
|---|--------------------|----------------|------------|----------------|
| Turntable | Innco systems GmbH | CT-0801 | KMO-SZ114 | NCR |
| Antenna Tower | Innco systems GmbH | MM4000-PP | KMO-SZ115 | NCR |
| Controller | Innco systems GmbH | CO2000 | KMO-SZ116 | NCR |
| Pre-Amplifier | Agilent | 87405C | KMO-SZ155 | Dec.6, 2014 |
| Pre-Amplifier | Com-Power | PAM-840 | KMO-SZ156 | Dec.6, 2014 |
| Horn Antenna | Com-Power | AH-840 | KMO-SZ157 | Dec.6, 2014 |
| EMI Test Receiver | Rohde & Schwarz | ESPI7 | KMO-SZ002 | June 27, 2015 |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | KMO-SZ003 | June 27, 2015 |
| Signal Generator | FLUKE | PM5418+Y/C | KMO-SZ020 | May 27, 2015 |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | KMO-SZ004 | Jan. 30, 2015 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | KMO-SZ005 | Sep.18, 2015 |
| Trilog-Super Broadband Antenna | SCHWARZBECK | VULB9161 | KMO-SZ006 | Sep.18, 2015 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | KMO-SZ007 | Sep.18, 2015 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA 9120D | KMO-SZ008 | Sep.18, 2015 |
| AMN | Rohde & Schwarz | ESH3-Z5 | KMO-SZ009 | June 27, 2015 |
| Pulse Limiter | SCHWARZBECK | VTSD 9561-F | KMO-SZ077 | Nov.29, 2014 |
| ISN | SCHWARZBECK | NTFM 8158 CAT3 | KMO-SZ070 | Nov.19, 2014 |
| ISN | SCHWARZBECK | NTFM 8158 CAT5 | KMO-SZ071 | Nov.19, 2014 |
| ISN | SCHWARZBECK | NTFM 8158 CAT6 | KMO-SZ072 | Nov.19, 2014 |
| KMO Shielded Room | KMO | KMO-001 | KMO-SZ036 | NCR |
| Coaxial Cable with N-Connectors | SCHWARZBECK | AK9515H | KMO-SZ037 | Sep.18, 2015 |
| AC Power Source / Analyzer | Agilent | 6813B | KMO-SZ166 | July 22, 2015 |
| Digital Radio Communication Tester | Rohde & Schwarz | CMD60 | KMO-SZ169 | April 10, 2015 |
| Universal Radio Communication Tester | Rohde & Schwarz | CMU200 | KMO-SZ170 | April 10, 2015 |
| Program Control Telephone Exchanger | Excelltel | CDX8000-M | KMO-SZ221 | NCR |
| 3m Anechoic Chamber | KMO | KMO-3AC | KMO-3AC-1 | Nov.12, 2016 |
| Temperature Chamber | TABAI | PSL-4GTW | N/A | Feb.10, 2015 |