



<b>Test Report Number:</b>	<b>LCZE14100070</b>	Total Page(s): 32	
<b>Applicant Name:</b>	Energy Recovery Products (Zhuhai) Co.,Ltd		
<b>Applicant Address:</b>	F building No.8,Pingdong Road 2, Nanping Science Park, Zhuhai, Guangdong China 519060		
<b>Test item:</b>	LED Driver		
<b>Model / Type Reference:</b>	See section 4.2 ratings and system details		
<b>Date of Issue:</b>	2014-11-01		
<b>Testing Laboratory:</b>	LCTECH (Zhongshan) Testing Service Co.,Ltd 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China		
<b>Test Specification:</b>	EN 62493:2010		
<b>Test Result:</b>	Passed		
<b>Compiled by:</b>	<b>Reviewed by:</b>		
2014-11-01	Map He	<i>Map He</i>	2014-11-01
	Gordon Xie	<i>Gordon Xie</i>	
<i>Date</i>	<i>Name</i>	<i>Signature</i>	<i>Date</i>
	<i>Name</i>	<i>Signature</i>	
<b>Remark:</b>			
N/A			
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## TEST SUMMARY

- 5.1 MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE  
RESULT: Pass
- 5.2 RADIATED ELECTROMAGNETIC DISTURBANCES  
RESULT: Pass
- 5.3 RADIATED ELECTROMAGNETIC (CDN)  
RESULT: Pass
- 5.4 Induced Current Density (20kHz-10MHz)  
RESULT: Pass



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## 1 General Remarks

### 1.1 Complementary Materials

Constructional Data form

## 2 Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	3.26dB
Uncertainty for Disturbance Power test	3.28dB
Uncertainty for Radiation Emission test	3.14 dB (Polarize: V)
	3.16 dB (Polarize: H)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

## 3 Test Sites

### 3.1 Test Facilities

#### A. LCTECH (Zhongshan) Testing Service Co.,Ltd

Add: 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

### 3.2 Testing

Date of receipt of test item : 2014-09-25

Date (s) of performance of tests : 2014-10-09 to 2014-11-01

LCTECH (Zhongshan) Testing Service Co.,Ltd  
Add: 2/F.,Technology and Enterprise Development Center,  
Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China

Tel:+86-760-22833366

Fax:+86-760-22833399

E-mail:Service@lccert.com

<http://www.lccert.com>

### 3.3 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
<b>Radiated Emission</b> <input type="checkbox"/>						
1	EMI Test Receiver	R&S	ESCI 7	100965	June.04 2014	June.04 2015
2	Log-periodic Dipole Antenna	Schwarzbeck	VULB 9162	058	May.30 2014	May.30 2015
3	Pre-Amplifier	SCHWARZBECK	BBV9743	9743-143	June.25 2014	June.25 2015
4	3m Semi-anechoic	Zhongshuo Electronics	9mx6mx6m	N/A	Jan.05 2014	Jan.05 2015
5	RF Cable	R&S	R01	10403	June.04 2014	June.04 2015
<b>Disturbance Voltage</b> <input checked="" type="checkbox"/>						
6	EMI Test Receiver	Rohde&Schwarz	ESCI	100939	Aug.29 2014	Aug.29 2015
7	Artificial Mains Network	Rohde&Schwarz	ENV216	3560655012	Aug.29 2014	Aug.29 2015
8	Shield Room	ZhongYu Eletron	8X5X3.5	N/A	Aug.29 2014	Aug.29 2015
9	Conducted Emission Software	FALA	EZ-EMC	N/A	N/A	N/A
<b>Harmonics &amp; Flicker</b> <input type="checkbox"/>						
10	Harmonic and Flicker Analyzer	CI	PACS-1	S59176	Aug.29 2014	Aug.29 2015
11	AC Power Source	CI	5001ix-CTS-400	59176	Aug.29 2014	Aug.29 2015
<b>Radiated Electromagnetic Disturbance</b> <input checked="" type="checkbox"/>						
12	EMI Test Receiver	Rohde&Schwarz	ESCI	100939	Aug.29 2014	Aug.29 2015
13	Triple-loop Antenna	SCHWARZBECK	HXYZ9170	HXYZ9170-171	Aug.29 2014	Aug.29 2015
<b>Radiated disturbances(CDN)</b> <input checked="" type="checkbox"/>						
14	EMI Test Receiver	Rohde&Schwarz	ESCI	100939	Aug.29 2014	Aug.29 2015
15	6dB Attenuator	Weinschel	WA59-6-33	2537	Aug.29 2014	Aug.29 2015
16	Coupling Decoupling Network	SCHWARZBECK	L-801M2/M3	2531	Aug.29 2014	Aug.29 2015
<b>Induced Current Density</b> <input checked="" type="checkbox"/>						
17	Shielding Room	Zhong Yu	8 x 5 x 3.5 m	N/A	Aug.29 2014	Aug.29 2015
18	EMI Test Receiver	Rohde & Schwarz	ESCI	100085	Aug.29 2014	Aug.29 2015



Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
19	Coaxial Cable	LC TECH	3m	3892	Mar.06 2014	Mar.06 2015
20	"Van der Hoofden" Test-head	SCHWARZBECK	VDHH-9502	10543	Mar.06 2014	Mar.06 2015
21	Horn antenna	SCHWARZBECK	BBHA 9120 E	BBHA9120E31 8/0899	Mar.06 2014	Mar.06 2015

☐ : Not Used

☒ : Used

## 4 General Product Information

According to the declaration from the applicant, this report covers the model see section 4.2 ratings and system details. These models have the same internal configuration and PCB layout, the difference of these models were power and surface, Therefore maximum and minimum power models EBR010U-0200-42 and EBR020U-0700-30 were fully tested in the report.

### 4.1 Product Description and Intended Use

Refer to Constructional Data Form and user manual.

### 4.2 Ratings and System Details

ERP P/N	Input Voltage(Vac)	Frequency(Hz)	Input Current(A)	Max Output Power	Max output regulated current	Min output regulated current	Output Voltage Range (Vdc)	Potting(Y/N)
EBR0P PA-XXXX-30-YYY-ZZZ	A	50/60	0.27	21.0	700mA	100mA	20<Vout<30	Y
EBR0P PA-XXXX-30-YYY-ZZZ	A	50/60	0.27	15.0	500mA			N
EBR0P PA-XXXX-24-YYY-ZZZ	A	50/60	0.27	16.8	700mA	100mA	16<Vout<24	Y
EBR0P PA-XXXX-24-YYY-ZZZ	A	50/60	0.27	15.0	625mA			N
EBR0P PA-XXXX-32-YYY-ZZZ	A	50/60	0.27	21.0	650mA	100mA	20<Vout<32	Y
EBR0P PA-XXXX-32-YYY-ZZZ	A	50/60	0.27	15.0	465mA			N



ERP P/N	Input Voltage(Vac)	Frequency(Hz)	Input Current(A)	Max Output Power	Max output regulated current	Min output regulated current	Output Voltage Range (Vdc)	Potting(Y/N)
EBR0P PA-XXXX-36-YYY-ZZZ	A	50/60	0.27	21.0	580mA	100mA	24<Vout<36	Y
EBR0P PA-XXXX-36-YYY-ZZZ	A	50/60	0.27	15.0	415mA			N
EBR0P PA-XXXX-37-YYY-ZZZ	A	50/60	0.27	18.5	500mA	100mA	26<Vout<37	Y
EBR0P PA-XXXX-37-YYY-ZZZ	A	50/60	0.27	15.0	405mA			N
EBR0P PA-XXXX-42-YYY-ZZZ	A	50/60	0.27	21.0	500mA	80mA	30<Vout<42	Y
EBR0P PA-XXXX-42-YYY-ZZZ	A	50/60	0.27	15.0	355mA			N
EBR010 U-XXXX-28-YYY-ZZZ	120	50/60	0.27	7.6	300mA	80mA	22<Vout<28	N
EBR0Y YU-XXXX-21-YYY-ZZZ	120	50/60	0.27	11.1	530mA	100mA	14<Vout<21	N

- Notes: 1. PP designate: If 16W<Pout<21W, PP=20, If 11W<Pout<16W, PP=15, If Pout<11W, PP=10  
2. If AC input is 120VAC, A=U; If AC input is 120-277VAC, A=W; if AC input is 230VAC, A=E; If AC input is 277VAC, A=V  
3. XXXX means regulated output current, which is not greater than max output regulated current within the output voltage range.  
For last two models, if 10W<Pout<15W, YY=15, If Pout<10W, YY=10  
4. YYY(Y=0~9, A~Z or blank, for marketing purpose only)  
5. ZZZ(Z=0~9, A~Z or blank, for marketing purpose only)



### 4.3 The basic operation modes are

The basic operation modes are:

- A. Test in lighting mode

### 4.4 Noise Generating and Noise Suppressing Parts

Refer to the Constructional Data Form

### 4.5 Submitted Documents

Difference declaration  
Rating Label  
Circuit diagram  
User manual  
PCB layout

### 4.6 Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

**Immunity:** The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test modes were adapted accordingly in reference to the instructions for use.

### 4.7 Physical Configuration for Testing

Refer to the related chapter in this test report.

### 4.8 Test Operation and Test Software

Refer to test set up in chapter 5 and chapter 6.



#### **4.9 Special Accessories and Auxiliary Equipment**

None

#### **4.10 Countermeasures to achieve EMC Compliance**

None



## 5 Test Results EMISSION

### 5.1 Terminal Continuous Disturbance Voltage

**Results:**

**Pass**

Date of testing : 09 Oct, 2014  
Test procedure : EN 62493:2010  
Frequency range : 0.02 - 30MHz  
Kind of test site : shielded room  
Limits : EN 55015:2013 Clause 4.3.1, Table 2a

**Test setup**

Input Voltage : 120Vac, 60Hz  
Operation Mode : Test in lighting mode  
Artificial Hand : Not applied  
Earthing : Applied  
Temperature : 25°C  
Humidity : 56%  
Air pressure : 101KPA

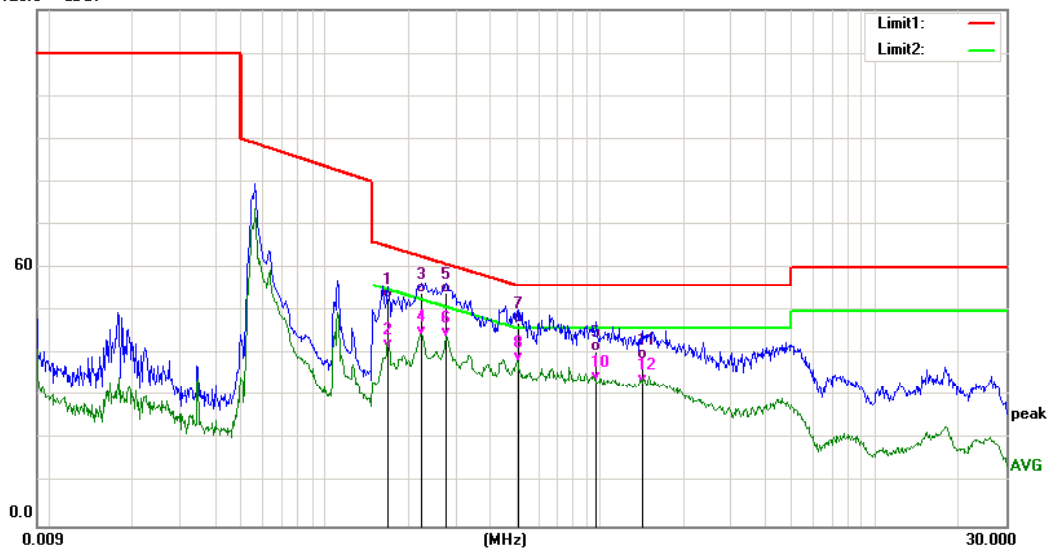
# Test data

Model: EBR020U-0700-30

Peak and Average Scan:

Live:

120.0 dBuV



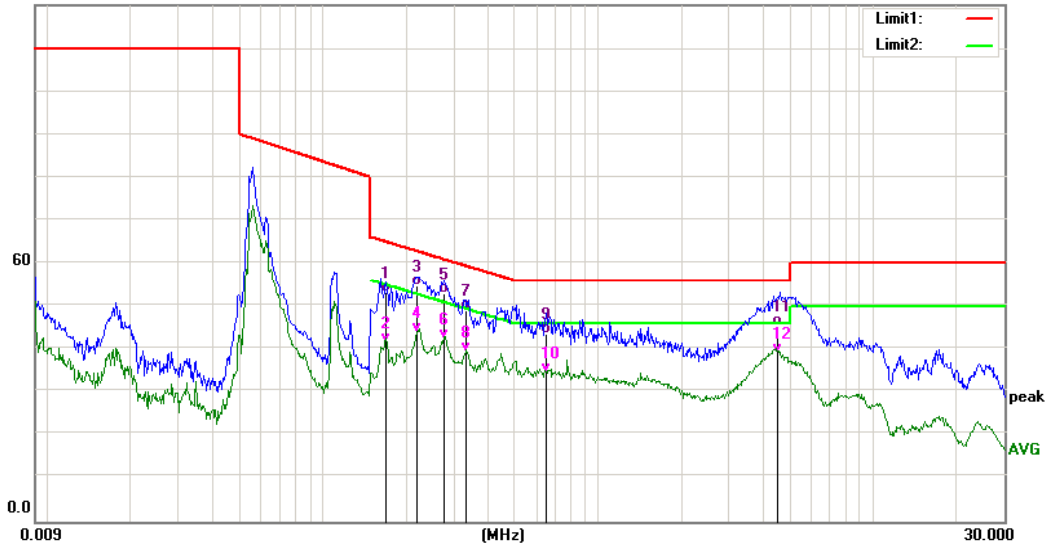
Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1700	43.81	9.23	53.04	64.96	-11.92	QP
2	0.1700	32.11	9.23	41.34	54.96	-13.62	AVG
3	0.2260	44.98	9.28	54.26	62.60	-8.34	QP
4	0.2260	34.94	9.28	44.22	52.60	-8.38	AVG
5	0.2780	44.74	9.31	54.05	60.88	-6.83	QP
6	0.2780	34.57	9.31	43.88	50.88	-7.00	AVG
7	0.5060	37.94	9.44	47.38	56.00	-8.62	QP
8	0.5060	28.77	9.44	38.21	46.00	-7.79	AVG
9	0.9740	31.22	9.53	40.75	56.00	-15.25	QP
10	0.9740	24.12	9.53	33.65	46.00	-12.35	AVG
11	1.4340	29.34	9.57	38.91	56.00	-17.09	QP
12	1.4340	23.62	9.57	33.19	46.00	-12.81	AVG

Peak and Average Scan:

Neutral:

120.0 dBuV



Quasi-peak and Average measurement:

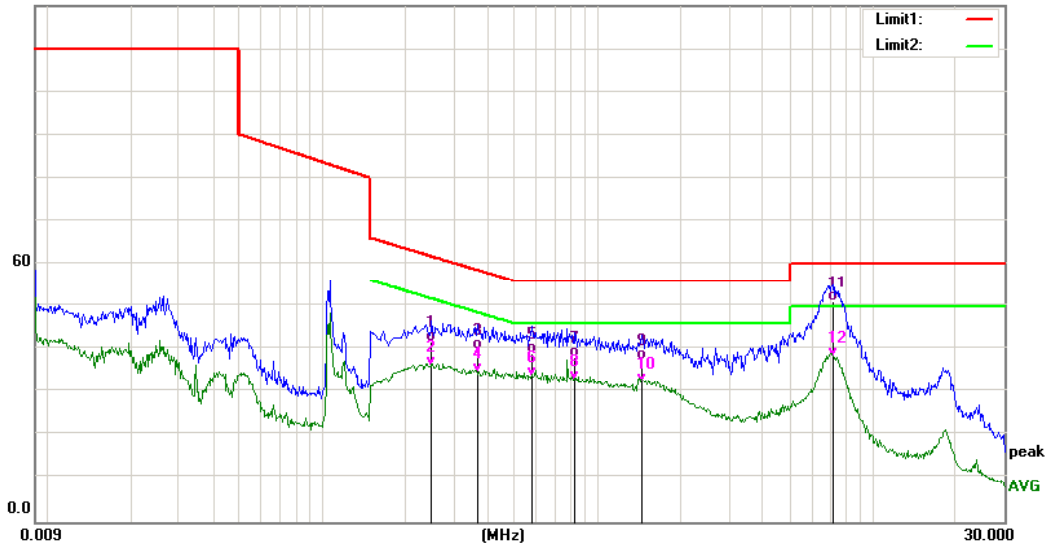
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1700	44.06	9.23	53.29	64.96	-11.67	QP
2	0.1700	32.21	9.23	41.44	54.96	-13.52	AVG
3	0.2260	45.47	9.28	54.75	62.60	-7.85	QP
4	0.2260	34.54	9.28	43.82	52.60	-8.78	AVG
5	0.2782	43.72	9.31	53.03	60.87	-7.84	QP
6	0.2782	33.12	9.31	42.43	50.87	-8.44	AVG
7	0.3353	39.82	9.35	49.17	59.32	-10.15	QP
8	0.3353	30.04	9.35	39.39	49.32	-9.93	AVG
9	0.6500	34.10	9.47	43.57	56.00	-12.43	QP
10	0.6500	25.30	9.47	34.77	46.00	-11.23	AVG
11	4.4780	35.72	9.72	45.44	56.00	-10.56	QP
12	4.4780	29.29	9.72	39.01	46.00	-6.99	AVG

Model: EBR010U-0200-42

Peak and Average Scan:

Live:

120.0 dBuV



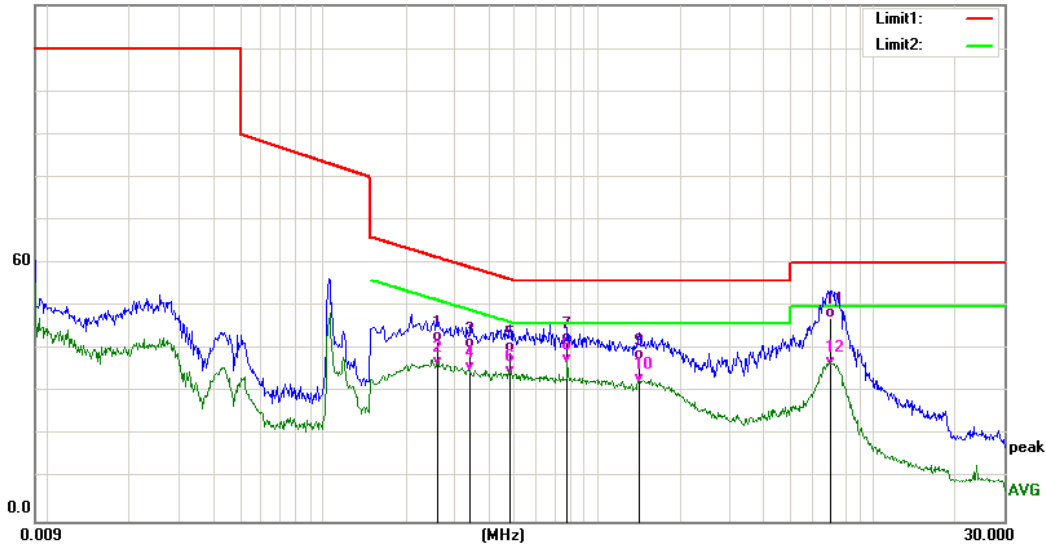
Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2500	32.54	9.30	41.84	61.76	-19.92	QP
2	0.2500	26.95	9.30	36.25	51.76	-15.51	AVG
3	0.3660	30.76	9.36	40.12	58.59	-18.47	QP
4	0.3660	25.39	9.36	34.75	48.59	-13.84	AVG
5	0.5780	29.73	9.46	39.19	56.00	-16.81	QP
6	0.5780	24.28	9.46	33.74	46.00	-12.26	AVG
7	0.8260	28.77	9.51	38.28	56.00	-17.72	QP
8	0.8260	23.34	9.51	32.85	46.00	-13.15	AVG
9	1.4460	28.17	9.57	37.74	56.00	-18.26	QP
10	1.4460	22.77	9.57	32.34	46.00	-13.66	AVG
11	7.1900	41.36	9.89	51.25	60.00	-8.75	QP
12	7.1900	28.51	9.89	38.40	50.00	-11.60	AVG

Peak and Average Scan:

Neutral:

120.0 dBuV



Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2620	32.45	9.31	41.76	61.37	-19.61	QP
2	0.2620	26.96	9.31	36.27	51.37	-15.10	AVG
3	0.3460	31.02	9.35	40.37	59.06	-18.69	QP
4	0.3460	25.65	9.35	35.00	49.06	-14.06	AVG
5	0.4820	29.98	9.43	39.41	56.30	-16.89	QP
6	0.4820	24.56	9.43	33.99	46.30	-12.31	AVG
7	0.7780	31.95	9.50	41.45	56.00	-14.55	QP
8	0.7780	27.23	9.50	36.73	46.00	-9.27	AVG
9	1.4140	28.21	9.56	37.77	56.00	-18.23	QP
10	1.4140	22.84	9.56	32.40	46.00	-13.60	AVG
11	7.0780	37.52	9.88	47.40	60.00	-12.60	QP
12	7.0780	26.25	9.88	36.13	50.00	-13.87	AVG



## 5.2 Radiated Electromagnetic Disturbances (LOOP)

### Results:

**Pass**

Date of testing : 09 Oct 2014  
Test procedure : EN 62493:2010  
Frequency range : 0.1- 30MHz  
Kind of test site : shielded room  
Limits : EN 55015:2013, Clause 4.4, Table 3a

### Test setup:

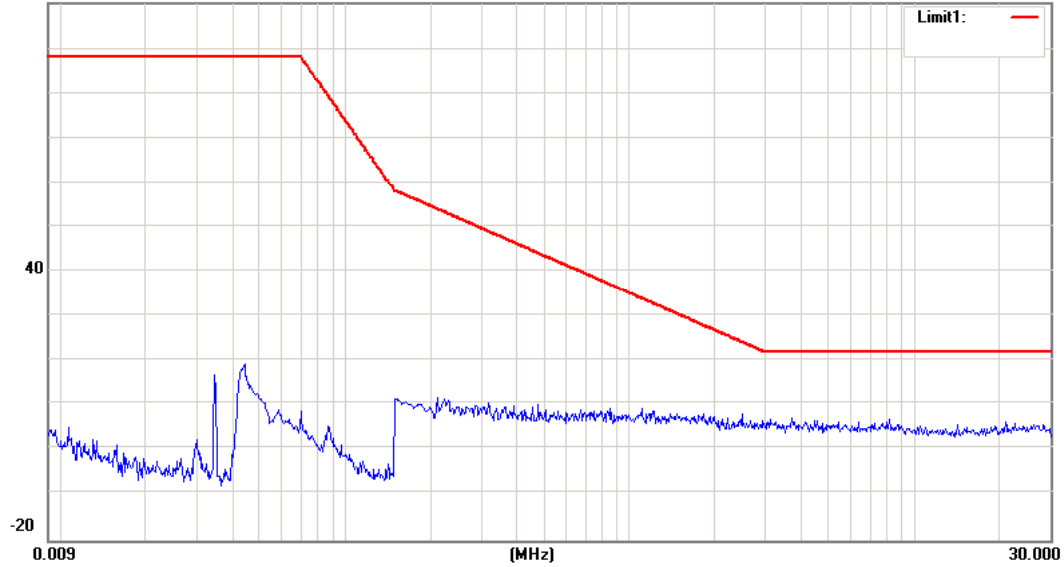
Input Voltage : 120Vac, 60Hz  
Operation Mode : Test in lighting mode  
Artificial Hand : Not applied  
Earthing : Applied  
Temperature : 25°C  
Humidity : 60%  
Air pressure : 101KPA

**Test Data:**  
**Model:EBR020U-0700-30**

Peak Scan:

X axis

100.0 dBuA



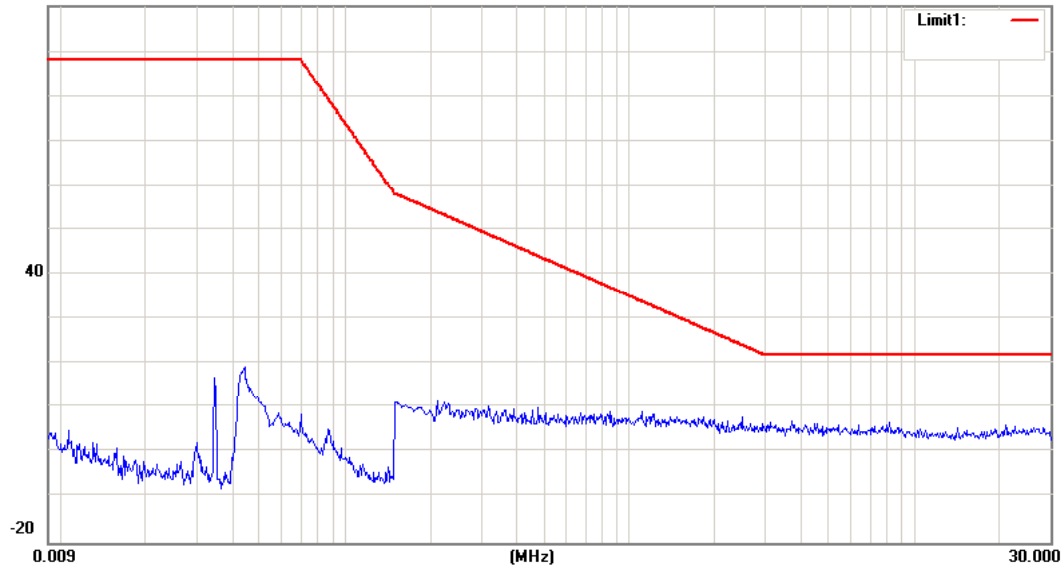
Quasi-peak measurement:

Note: Where PK reading is less than relevant limit decrease 10dB, the QP reading will not be recorded.

Peak Scan:

Y axis

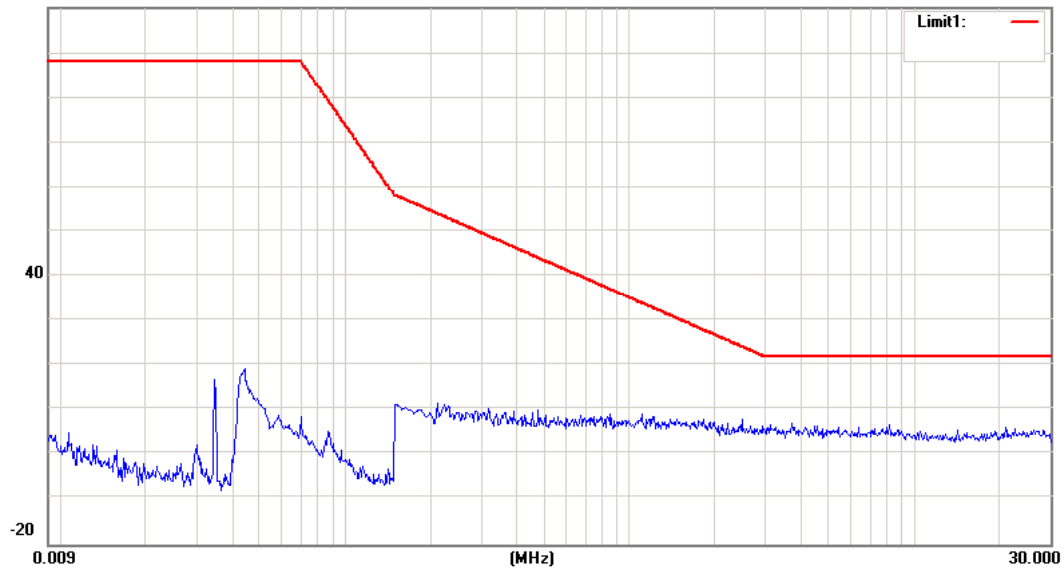
100.0 dBuA



Quasi-peak measurement:

Note: Where PK reading is less than relevant limit decrease 10dB, the QP reading will not be recorded.

Peak Scan:  
Z axis  
100.0 dBuA

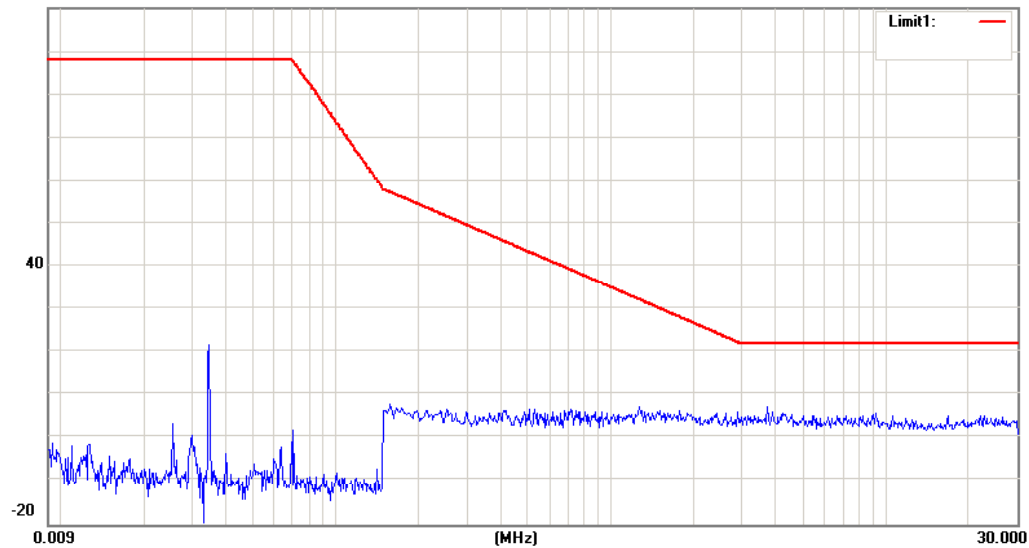


Quasi-peak measurement:

Note: Where PK reading is less than relevant limit decrease 10dB, the QP reading will not be recorded.

**Model:EBR010U-0200-42**

Peak Scan:  
X axis  
100.0 dBuA



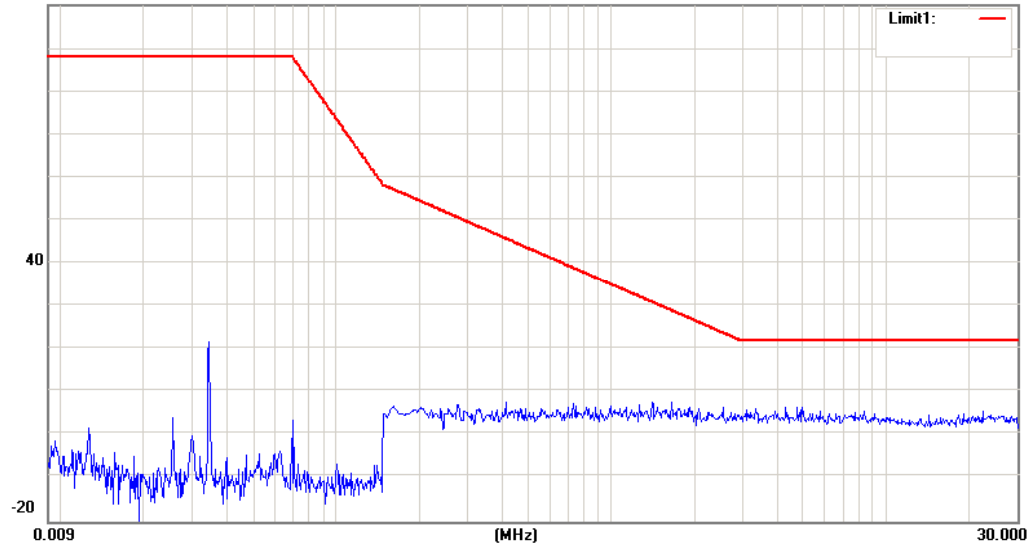
Quasi-peak measurement:

Note: Where PK reading is less than relevant limit decrease 10dB, the QP reading will not be recorded.

Peak Scan:

Y axis

100.0 dBuA



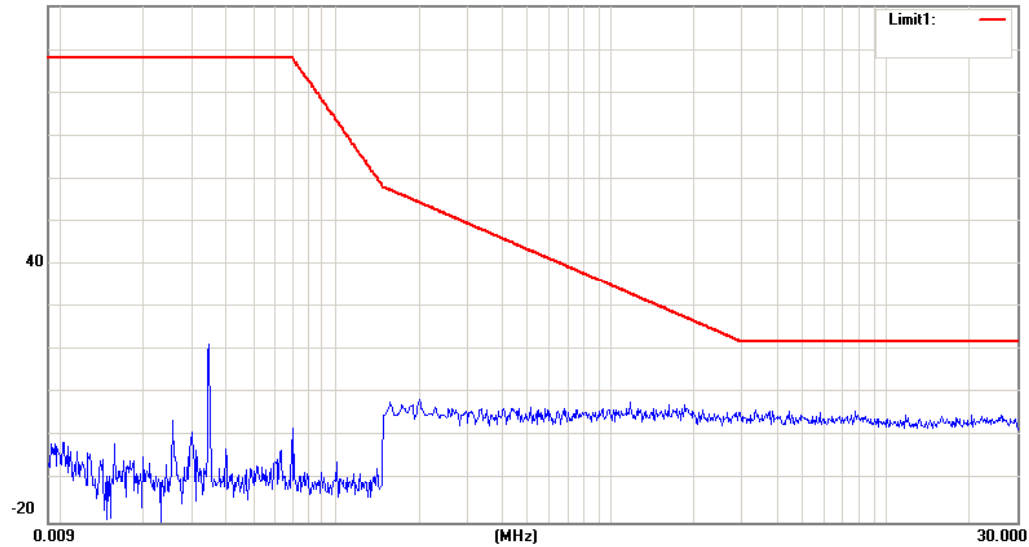
Quasi-peak measurement:

Note: Where PK reading is less than relevant limit decrease 10dB, the QP reading will not be recorded.

Peak Scan:

Z axis

100.0 dBuA



Quasi-peak measurement:

Note: Where PK reading is less than relevant limit decrease 10dB, the QP reading will not be recorded.



### 5.3 Radiated electromagnetic disturbances (30 M Hz to 300 MHz)

**Results:**

**Pass**

Date of testing : 09 Oct 2010  
Test procedure : EN 62493:2010  
Frequency range : 30- 300MHz  
Kind of test site : semi-anechoic chamber  
Limits : EN 55015:2013, Table 3b

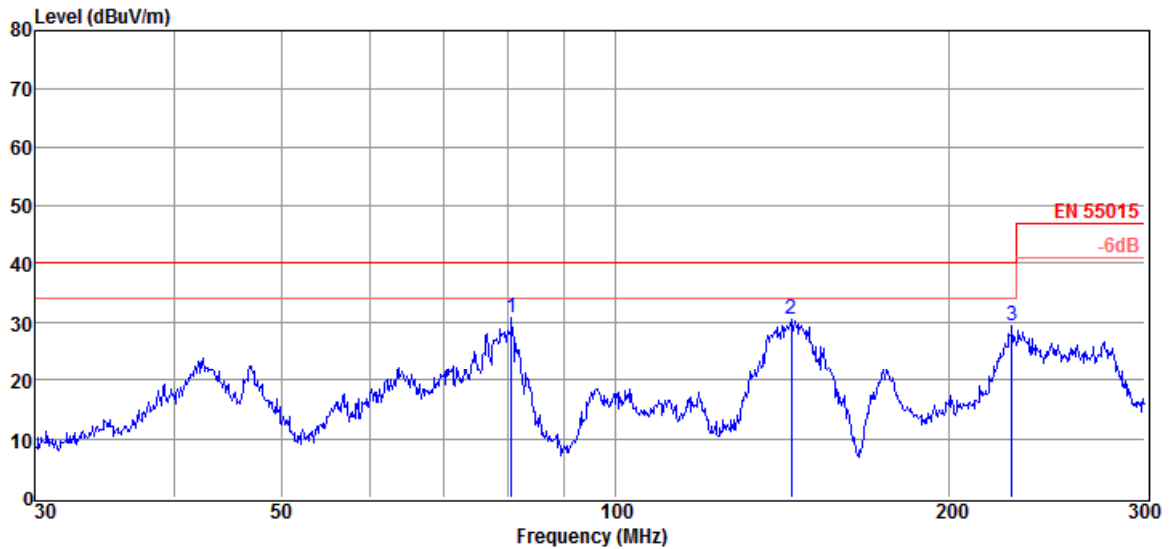
**Test setup:**

Input Voltage : 120Vac, 60Hz  
Operation Mode : Test in lighting mode  
Artificial Hand : Not applied  
Earthing : Not applied  
Temperature : 24°C  
Humidity : 60%  
Air pressure : 101KPA

**Test data:**

**Model: EBR020U-0700-30**

HORIZONTAL :  
Peak Scan



Quasi-peak and Average measurement:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	80.56	52.06	6.60	28.29	0.54	30.91	40.00	-9.09	Peak	HORIZONTAL
2	143.92	49.65	7.72	28.00	1.14	30.51	40.00	-9.49	Peak	HORIZONTAL
3	227.57	45.60	10.82	28.00	1.12	29.54	40.00	-10.46	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

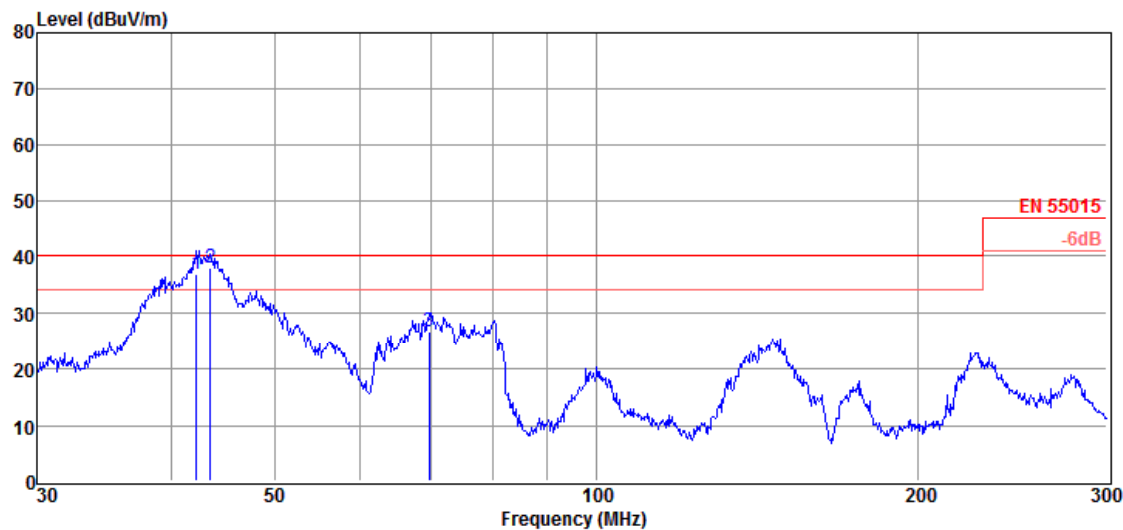
2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

**Test data:**

VERTICAL :

Peak Scan:



Quasi-peak and Average measurement:

Item (Mark)	Freq (MHz)	Read Level (dB $\mu$ V)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dB $\mu$ V/m)	Limit Line (dB $\mu$ V/m)	Over Limit (dB)	Detector	Polarization
1	42.28	48.50	15.71	27.80	0.51	36.92	40.00	-3.08	QP	VERTICAL
2	43.56	48.60	16.67	27.80	0.49	37.96	40.00	-2.04	QP	VERTICAL
3	69.68	46.19	7.80	28.09	0.67	26.57	40.00	-13.43	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

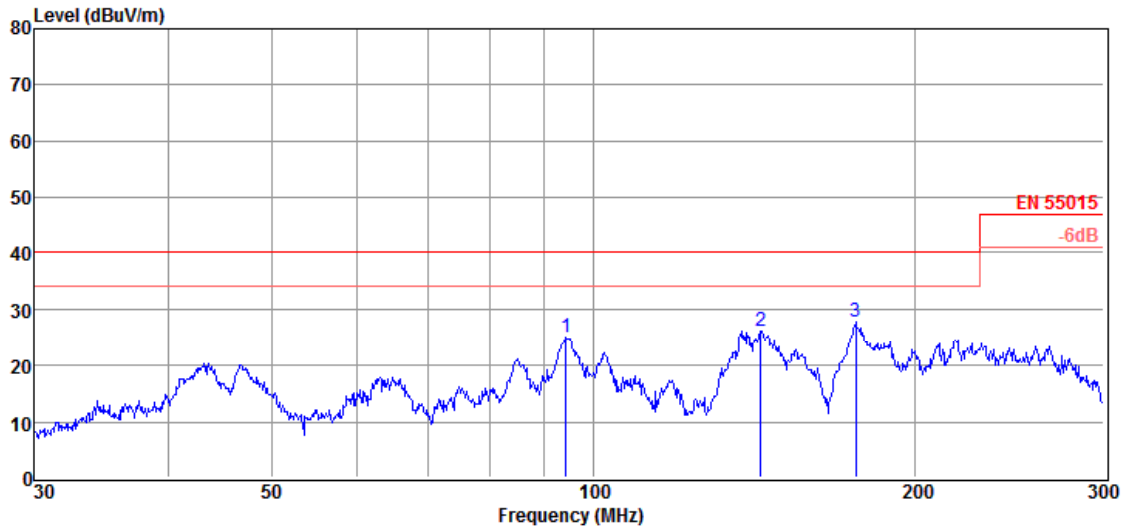
2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

**Model:EBR010U-0200-42**

HORIZONTAL :

Peak Scan



Quasi-peak and Average measurement:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	94.22	41.75	10.52	28.06	0.80	25.01	40.00	-14.99	Peak	HORIZONTAL
2	143.26	45.34	7.73	28.00	1.14	26.21	40.00	-13.79	Peak	HORIZONTAL
3	175.84	47.38	6.97	27.90	1.24	27.69	40.00	-12.31	Peak	HORIZONTAL

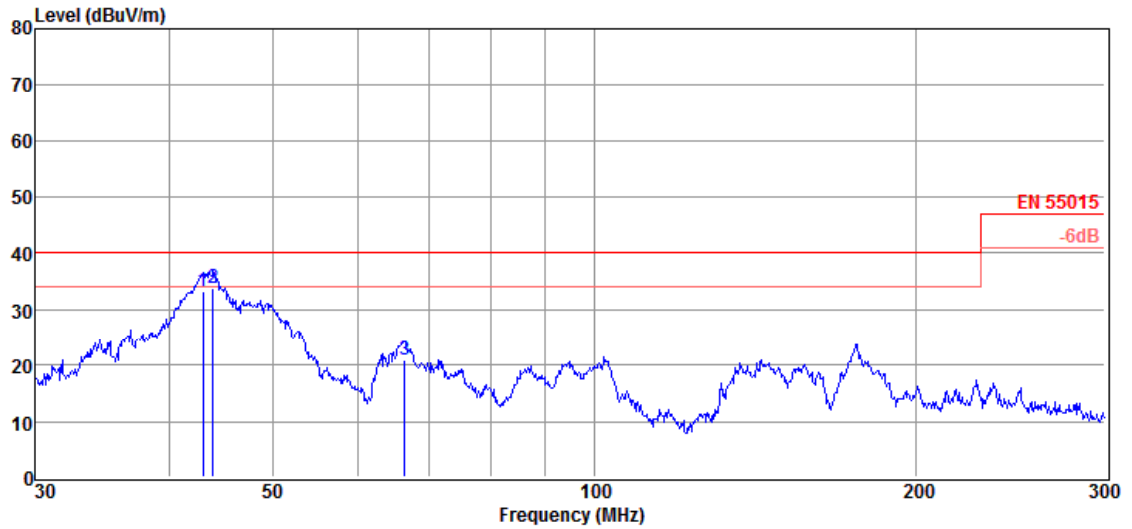
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

VERTICAL :

Peak Scan:



Quasi-peak and Average measurement:

Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	43.07	44.19	16.30	27.80	0.50	33.19	40.00	-6.81	QP	VERTICAL
2	43.97	44.20	16.97	27.80	0.48	33.85	40.00	-6.15	QP	VERTICAL
3	66.39	39.51	8.85	28.03	0.63	20.96	40.00	-19.04	QP	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss  
 2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit  
 3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto



#### 5.4 Induced Current Density (20 kHz-10MHz)

**Results:**

**Pass**

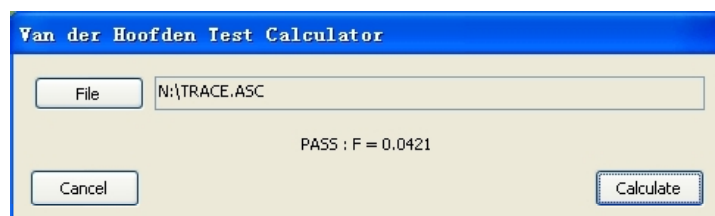
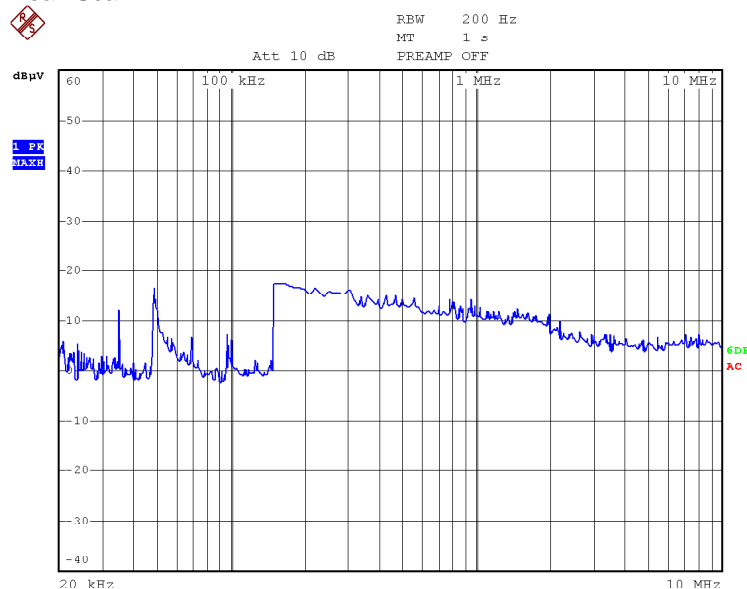
Date of testing : 01 Nov, 2014  
Test procedure : EN 62493:2010  
Frequency range : 20 KHz- 10 MHz  
Kind of test site : shielded room  
Limits : Factor  $\leq 0.85$

**Test setup:**

Input Voltage : 120Vac, 60Hz  
Operation Mode : Test in lighting mode  
Measuring Distance : 50cm  
Earthing : Applied  
Temperature : 25°C  
Humidity : 60%  
Air pressure : 101KPA

## Test data

Peak Scan:



## MEASUREMENT RESULTS:

Measuring with "Van der Hoofden" test head			
Location of EUT	Measuring distance	Result(F)	Limit(F)
Around of the ceiling light	50cm	0,0421(worse case)	0,85

## 6 The photos of test setting

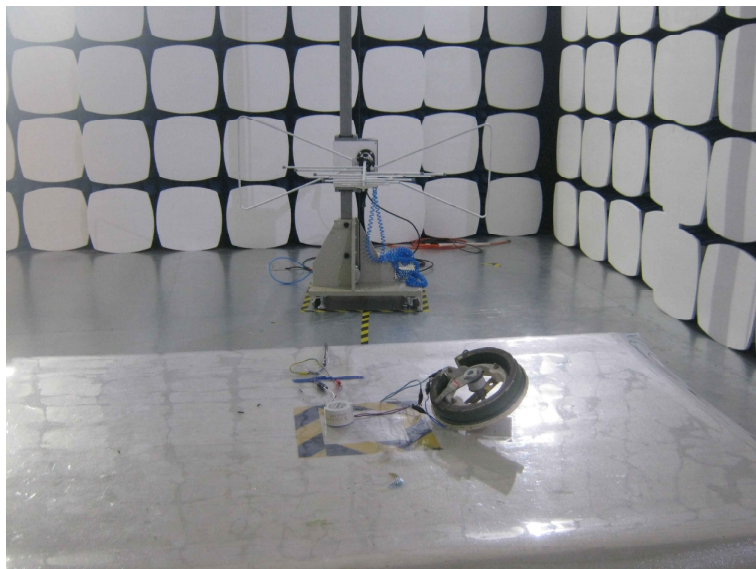
Terminal Continuous Disturbance Voltage:



Radiated electromagnetic disturbances:



Radiated electromagnetic (CDN):



Induced Current Density:



## 7 The photos of EUT

Model: EBR020U-0700-30



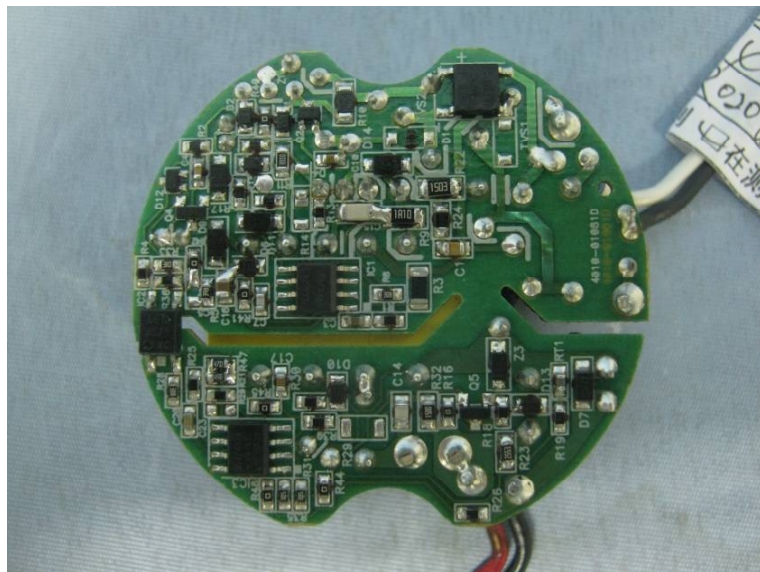
Picture 1



Picture 2



Picture 3



Picture 4

Model: EBR010U-0200-42



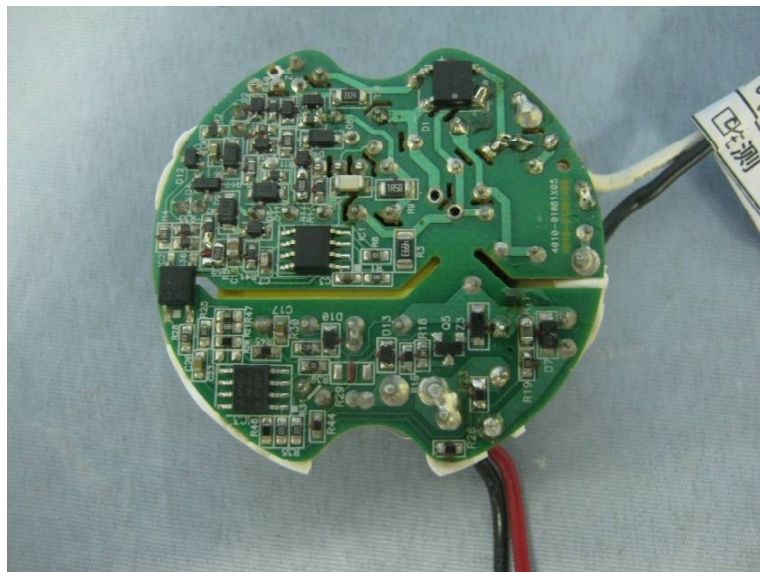
Picture 5



Picture 6



Picture 7



Picture 8

-----End of test report-----