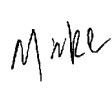



Test Report Number:	LCZE16030026					Total Page(s): 31
Applicant Name:	Energy Recovery Products (Zhuhai) Co.,Ltd					
Applicant Address:	F building No.8,Pingdong Road 2, Nanping Science Park, Zhuhai, Guangdong China 519060					
Test item:	Dimmable LED Driver					
Model / Type Reference:	See section 4.2 ratings and system details					
Date of Issue:	2016-06-16					
Testing Laboratory:	LCTECH (Zhongshan) Testing Service Co.,Ltd 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China					
Test Specification:	FCC PART 15 Subpart B:2015					
Test Result:	Passed					
Compiled by:				Reviewed by:		
2016-06-16	Mike		2016-06-16	Gordon Xie		
<i>Date</i>	<i>Name</i>	<i>Signature</i>	<i>Date</i>	<i>Name</i>	<i>Signature</i>	
Remark:						
N/A						
<p>The duplication of this report or parts of it and its use for advertising purposes is only allowed with permission of the testing laboratory. This report contains the result of the examination of the product sample submitted by the applicant. A general statement concerning the quality of the products from the series manufacture cannot be derived therefore.</p>						



TEST SUMMARY

- 5.1 MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE
RESULT: Pass
- 5.2 RADIATED EMISSION
RESULT: Pass

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1 General Remarks

When applying the basic standards in this test report, please refer to the applied generic or product family standards for edition information:
For dated basic standards, only the edition cited applies. For undated basic standards, the latest edition (including any amendments) applies.

1.1 Complementary Materials

Constructional Data form

2 Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	3.26dB
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

CNAS Registration Number:L3337

FCC Registration Number: 899311

Industry Canada site registration number:12114A-1

3.2 Testing

Date of receipt of test item : 2016-03-16

Date (s) of performance of tests : 2016-04-05 to 2016-06-07

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 (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
Radiated Emission						<input checked="" type="checkbox"/>
1	EMI Test Receiver	R&S	ESCI 7	100965	2015-09-08	2016-09-08
2	Log-periodic Dipole Antenna	Schwarzbeck	VULB 9162	058	2016-01-29	2017-01-28
3	Pre-Amplifier	SCHWARZBECK	BBV9743	9743-143	2016-01-29	2017-01-28
4	3m Semi-anechoic	Zhongshuo Electronics	9mx6mx6m	N/A	2016-01-29	2017-01-28
Disturbance Voltage						<input checked="" type="checkbox"/>
5	EMI Test Receiver	Rohde&Schwarz	ESCI	100939	2015-08-29	2016-08-28
6	Artificial Mains Network	Rohde&Schwarz	ENV216	3560655012	2015-08-29	2016-08-28
7	Shield Room	ZhongYu Eletron	8X5X3.5	N/A	2015-08-29	2016-08-28
8	Conducted Emission Software	FALA	EZ-EMC	N/A	N/A	N/A

☐ : Not Used

☒ : Used

4 General Product Information

According to the declaration from the applicant, this report covers the model as below: See section 4.2 ratings and system details. These models have the same internal configuration and PCB layout, the difference of these models was power, Therefore two models ESS030W-0900-27 and ESS040W-1400-27 were fully tested in the report.

1. PP designate: If $P_{out} < 11W$, $PP=10$, If $11W < P_{out} < 15W$, $PP=15$, If $15W < PP < 20W$, $PP=20$, If $20W < P_{out} < 30W$, $PP=30$, If $30W < P_{out} < 40W$, $PP=40$.
2. If AC input is 120VAC, A=U, If AC input is 120-277VAC, A=W, If AC input is 277VAC, A=V, If AC input is 230VAC, A=E.
3. - could be blank, XXXX means regulated output current, which is not greater than max output regulated current within the output voltage range.
4. - could be blank, YYYYY(Y=0~9, A~Z or blank, for marketing purpose only).
5. ZZZZ(Y=0~9, A~Z or blank, for marketing purpose only).
6. VV means max output voltage, which is not greater than 58V.

4.1 Product Description and Intended Use

Refer to Constructional Data Form and user manual.

4.2 Ratings and System Details

No.	Model No.	Input Voltage (Vac)	Max Output Power	Max output regulated current(A)	Min output regulated current (mA)	PCB layout & Schematic	Max Voltage	Output Voltage Range (Vdc)
1	ESS0 PPA-XXXX-VV-YYYY Y-ZZZZ	A	29.4	2.100	100	Same	25.0	11<Vout<25
2	ESS0 PPA-XXXX-VV-YYYY Y-ZZZZ	A	40.0	1.400	100	Same	42.0	24<Vout<42
3	ESS0 PPA-XXXX-VV-YYYY Y-ZZZZ	A	40.0	0.690	100	Same	58.0	42<Vout<58



4.3 Independent Operation Modes

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.

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.

All testing were performed according to the procedures in ANSI C63.10: 2013.

4.9 Special Accessories and Auxiliary Equipment

None

4.10 Countermeasures to achieve EMC Compliance

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

5 Test Results EMISSION

5.1 Conducted Emission

Results:

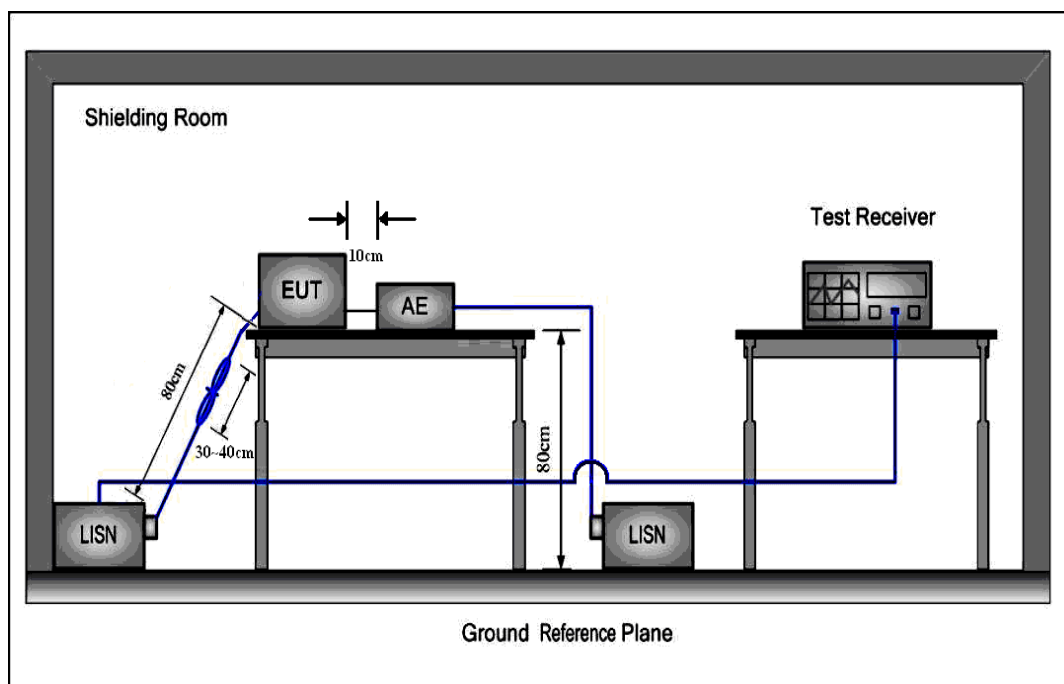
Pass

Date of testing : 07 June 2016
 Test procedure : ANSI C63.4:2014
 Frequency range : 0.15- 30MHz
 Kind of test site : shielded room
 Limits : FCC PART 15 Subpart B: 2015

Test setup

Input Voltage : 120Vac& 277Vac, 60Hz
 Operation Mode : Test in lighting mode
 Artificial Hand : Not applied
 Earthing : Not applied
 Temperature : 24°C
 Humidity : 60%
 Air pressure : 101KPA

Test Connection Diagram

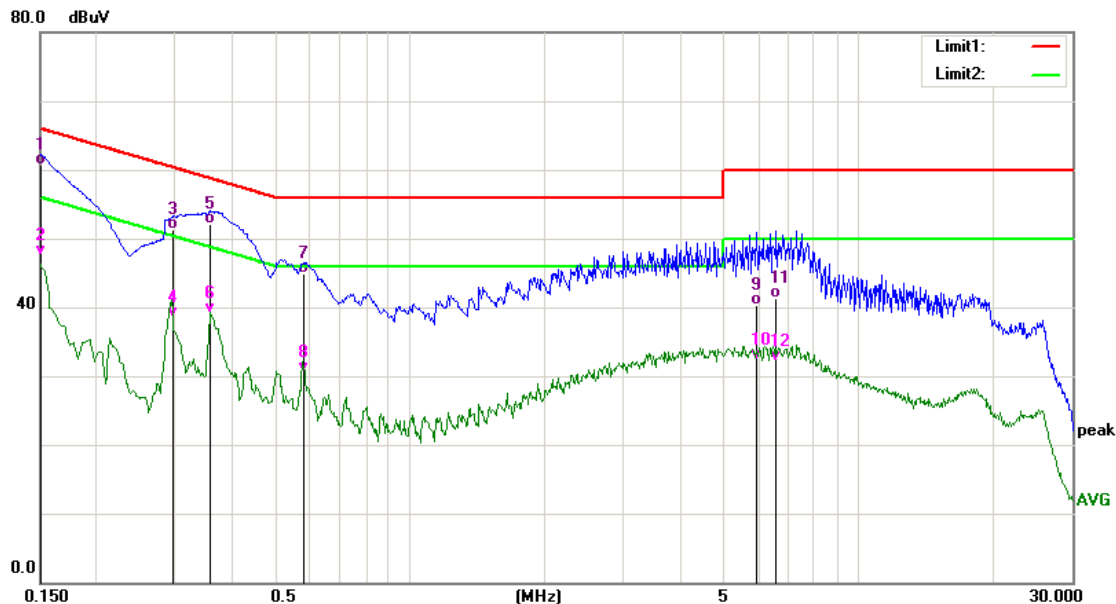


Test data

Model: ESS030W-0900-27 with 120Vac,60Hz

Peak and Average Scan:

Live:

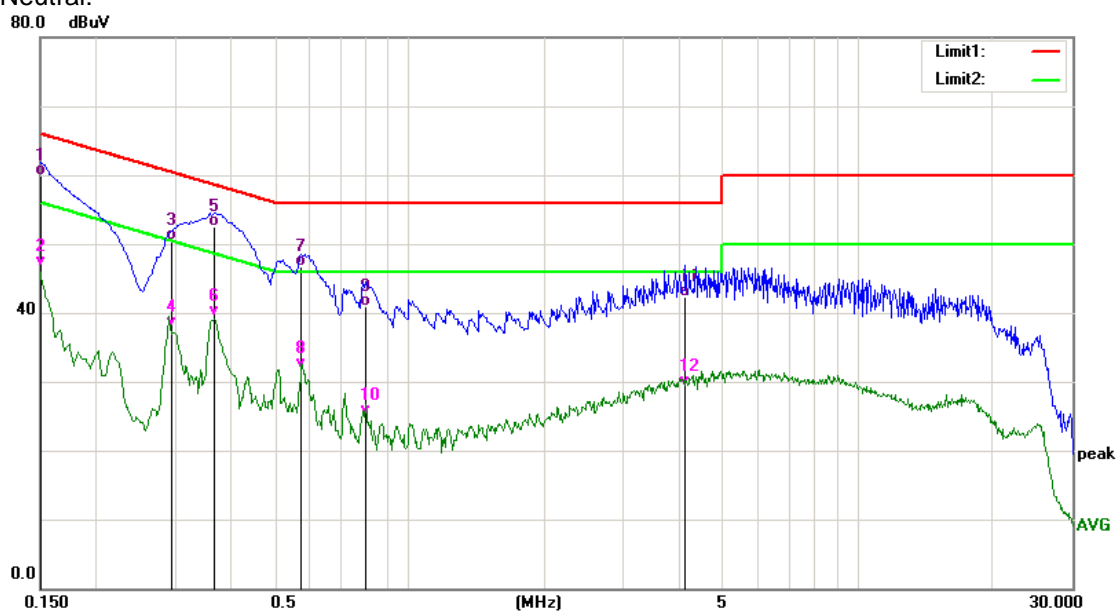


Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	51.05	9.64	60.69	66.00	-5.31	QP
2	0.1500	37.94	9.64	47.58	56.00	-8.42	AVG
3	0.2940	41.58	9.66	51.24	60.41	-9.17	QP
4	0.2940	28.83	9.66	38.49	50.41	-11.92	AVG
5	0.3620	42.45	9.67	52.12	58.68	-6.56	QP
6	0.3620	29.42	9.67	39.09	48.68	-9.59	AVG
7	0.5780	35.15	9.69	44.84	56.00	-11.16	QP
8	0.5780	20.88	9.69	30.57	46.00	-15.43	AVG
9	5.9460	30.35	9.93	40.28	60.00	-19.72	QP
10	5.9460	22.44	9.93	32.37	50.00	-17.63	AVG
11	6.5860	31.25	9.96	41.21	60.00	-18.79	QP
12	6.5860	22.18	9.96	32.14	50.00	-17.86	AVG

Peak and Average Scan:

Neutral:



Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	50.29	9.64	59.93	66.00	-6.07	QP
2	0.1500	36.98	9.64	46.62	56.00	-9.38	AVG
3	0.2909	40.84	9.66	50.50	60.50	-10.00	QP
4	0.2909	28.31	9.66	37.97	50.50	-12.53	AVG
5	0.3634	42.93	9.67	52.60	58.65	-6.05	QP
6	0.3634	29.84	9.67	39.51	48.65	-9.14	AVG
7	0.5780	36.96	9.69	46.65	56.00	-9.35	QP
8	0.5780	22.20	9.69	31.89	46.00	-14.11	AVG
9	0.7940	31.27	9.69	40.96	56.00	-15.04	QP
10	0.7940	15.35	9.69	25.04	46.00	-20.96	AVG
11	4.1340	32.52	9.82	42.34	56.00	-13.66	QP
12	4.1340	19.40	9.82	29.22	46.00	-16.78	AVG

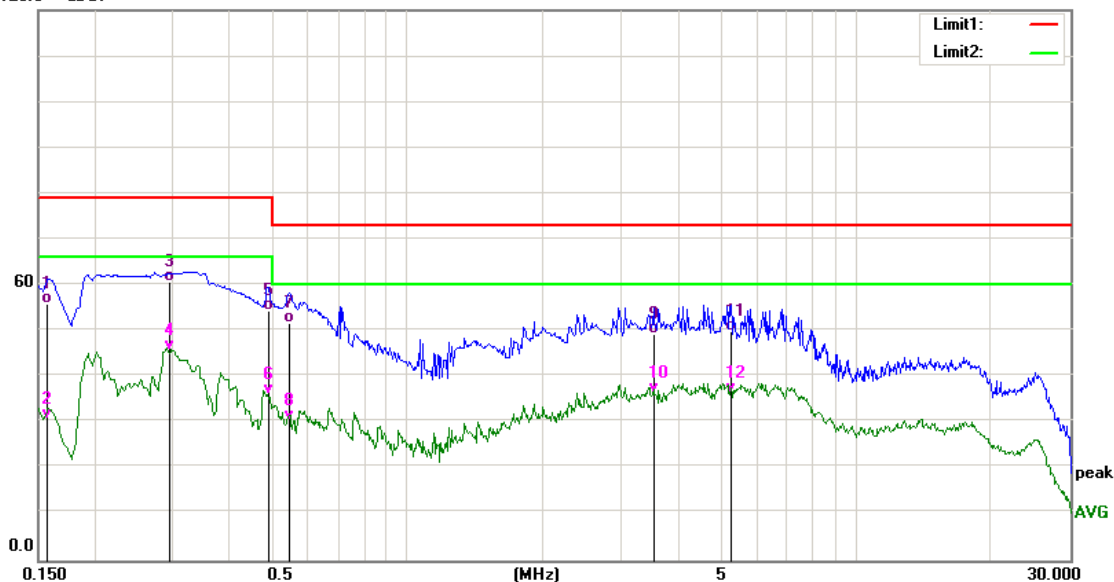
Test data

Model: ESS030W-0900-27 with 277Vac,60Hz

Peak and Average Scan:

Live:

120.0 dBuV



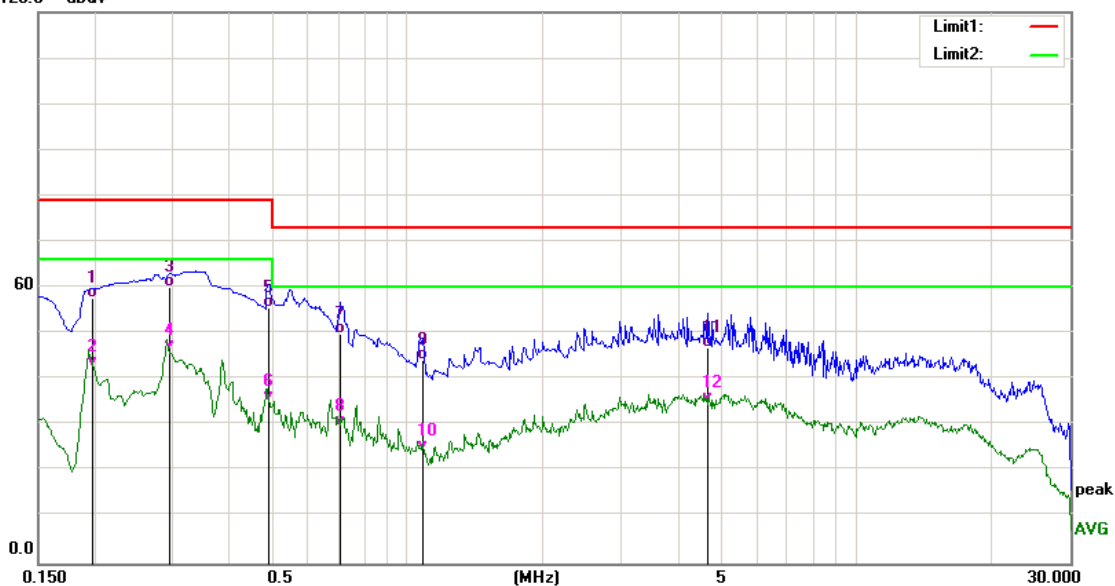
Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1590	46.17	9.64	55.81	79.00	-23.19	QP
2	0.1590	21.09	9.64	30.73	66.00	-35.27	AVG
3	0.2940	50.96	9.66	60.62	79.00	-18.38	QP
4	0.2940	36.19	9.66	45.85	66.00	-20.15	AVG
5	0.4863	44.86	9.67	54.53	79.00	-24.47	QP
6	0.4863	26.36	9.67	36.03	66.00	-29.97	AVG
7	0.5380	42.07	9.68	51.75	73.00	-21.25	QP
8	0.5380	20.70	9.68	30.38	60.00	-29.62	AVG
9	3.5380	39.60	9.80	49.40	73.00	-23.60	QP
10	3.5380	26.69	9.80	36.49	60.00	-23.51	AVG
11	5.2500	40.12	9.90	50.02	73.00	-22.98	QP
12	5.2500	26.60	9.90	36.50	60.00	-23.50	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	0.1955	48.24	9.66	57.90	79.00	-21.10	QP
2	0.1955	33.17	9.66	42.83	66.00	-23.17	AVG
3	0.2909	50.64	9.66	60.30	79.00	-18.70	QP
4	0.2909	36.55	9.66	46.21	66.00	-19.79	AVG
5	0.4900	45.84	9.67	55.51	79.00	-23.49	QP
6	0.4900	25.60	9.67	35.27	66.00	-30.73	AVG
7	0.7060	40.21	9.69	49.90	73.00	-23.10	QP
8	0.7060	20.29	9.69	29.98	60.00	-30.02	AVG
9	1.0860	34.44	9.71	44.15	73.00	-28.85	QP
10	1.0860	14.63	9.71	24.34	60.00	-35.66	AVG
11	4.6860	37.14	9.86	47.00	73.00	-26.00	QP
12	4.6860	25.23	9.86	35.09	60.00	-24.91	AVG

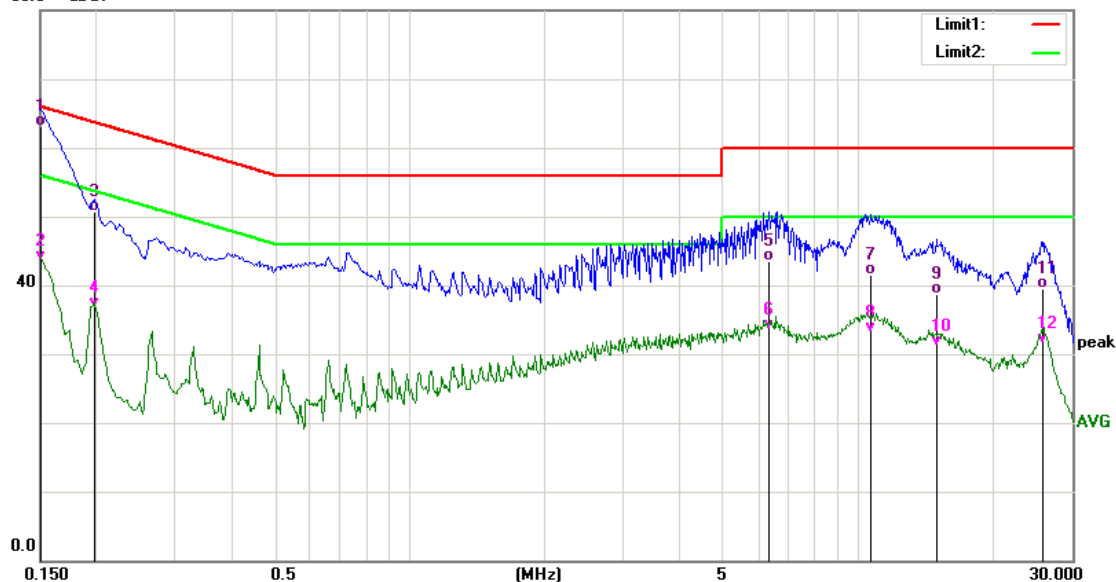
Test data

Model: ESS040W-1400-27 with 120Vac,60Hz

Peak and Average Scan:

Live:

80.0 dBuV

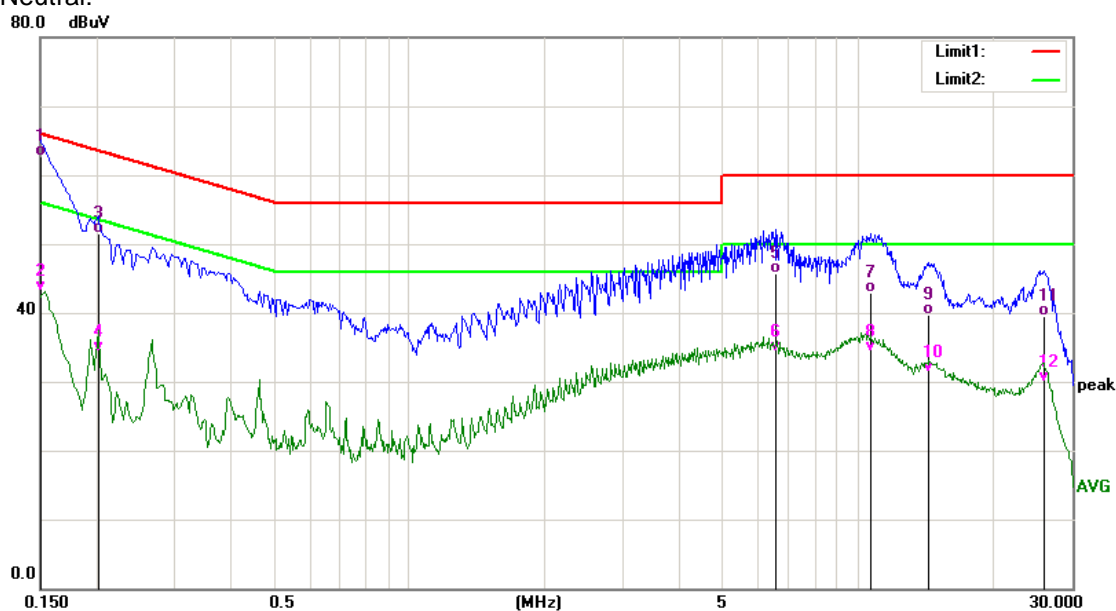


Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	53.52	9.64	63.16	66.00	-2.84	QP
2	0.1500	33.85	9.64	43.49	56.00	-12.51	AVG
3	0.1986	41.09	9.66	50.75	63.67	-12.92	QP
4	0.1986	27.07	9.66	36.73	53.67	-16.94	AVG
5	6.3500	33.53	9.95	43.48	60.00	-16.52	QP
6	6.3500	23.48	9.95	33.43	50.00	-16.57	AVG
7	10.6820	31.43	10.10	41.53	60.00	-18.47	QP
8	10.6820	22.95	10.10	33.05	50.00	-16.95	AVG
9	14.9340	28.63	10.16	38.79	60.00	-21.21	QP
10	14.9340	21.04	10.16	31.20	50.00	-18.80	AVG
11	25.7740	28.86	10.56	39.42	60.00	-20.58	QP
12	25.7740	20.92	10.56	31.48	50.00	-18.52	AVG

Peak and Average Scan:

Neutral:



Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	52.97	9.64	62.61	66.00	-3.39	QP
2	0.1500	33.55	9.64	43.19	56.00	-12.81	AVG
3	0.2020	41.86	9.66	51.52	63.53	-12.01	QP
4	0.2020	24.73	9.66	34.39	53.53	-19.14	AVG
5	6.5380	35.66	9.96	45.62	60.00	-14.38	QP
6	6.5380	24.31	9.96	34.27	50.00	-15.73	AVG
7	10.6700	32.85	10.10	42.95	60.00	-17.05	QP
8	10.6700	24.14	10.10	34.24	50.00	-15.76	AVG
9	14.4380	29.56	10.15	39.71	60.00	-20.29	QP
10	14.4380	21.09	10.15	31.24	50.00	-18.76	AVG
11	26.0940	28.86	10.55	39.41	60.00	-20.59	QP
12	26.0940	19.42	10.55	29.97	50.00	-20.03	AVG

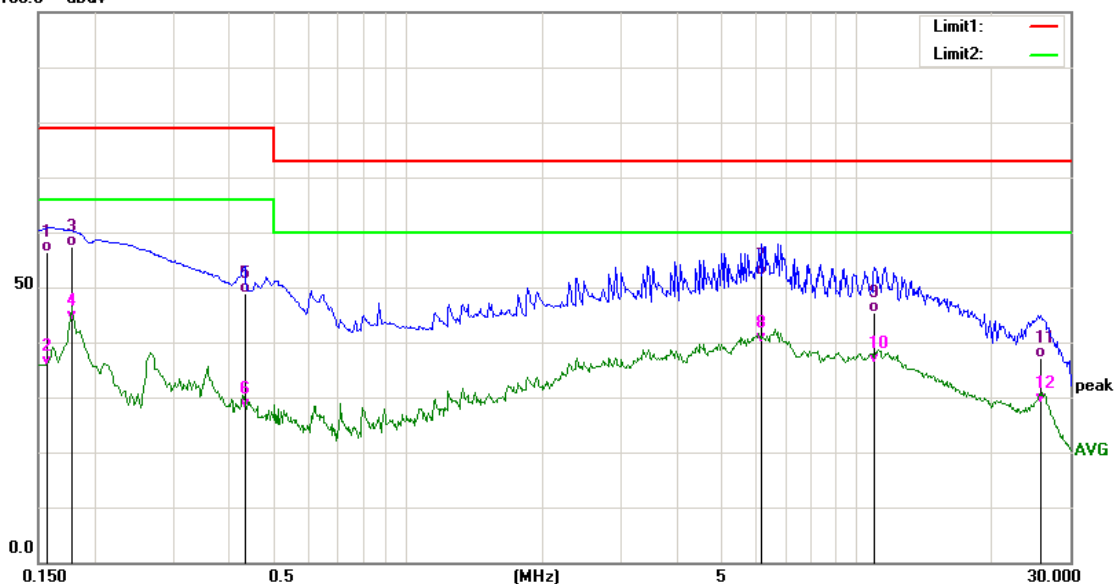
Test data

Model: ESS040W-1400-27 with 277Vac,60Hz

Peak and Average Scan:

Live:

100.0 dBuV



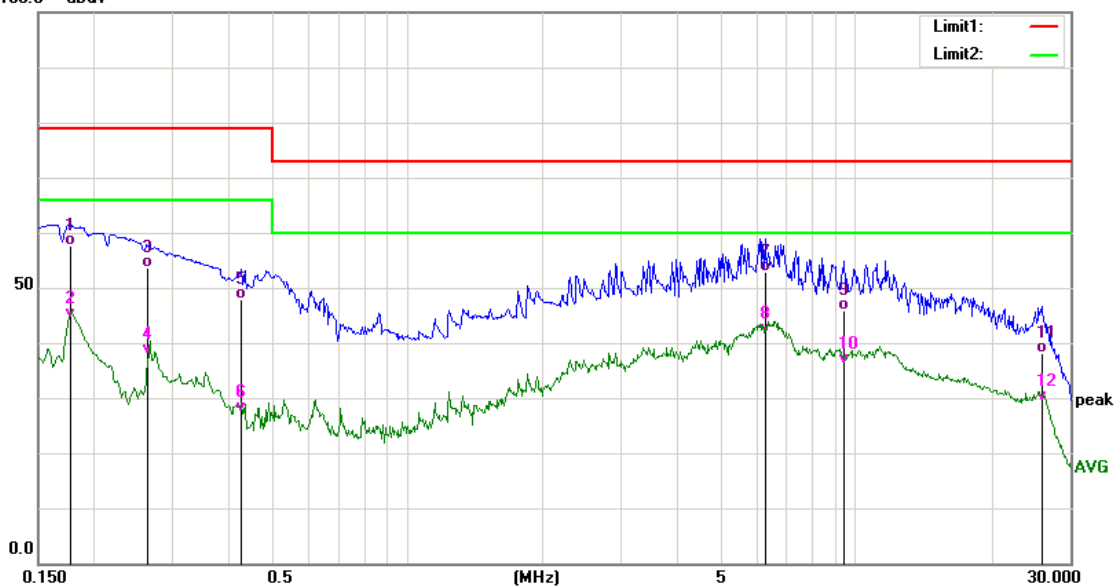
Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1580	46.74	9.64	56.38	79.00	-22.62	QP
2	0.1580	26.10	9.64	35.74	66.00	-30.26	AVG
3	0.1796	47.75	9.65	57.40	79.00	-21.60	QP
4	0.1796	34.14	9.65	43.79	66.00	-22.21	AVG
5	0.4340	39.26	9.68	48.94	79.00	-30.06	QP
6	0.4340	18.23	9.68	27.91	66.00	-38.09	AVG
7	6.1660	42.09	9.94	52.03	73.00	-20.97	QP
8	6.1660	29.94	9.94	39.88	60.00	-20.12	AVG
9	11.0100	35.34	10.10	45.44	73.00	-27.56	QP
10	11.0100	26.12	10.10	36.22	60.00	-23.78	AVG
11	25.8420	26.59	10.56	37.15	73.00	-35.85	QP
12	25.8420	18.23	10.56	28.79	60.00	-31.21	AVG

Peak and Average Scan:

Neutral:

100.0 dBuV



Quasi-peak and Average measurement:

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1796	48.09	9.65	57.74	79.00	-21.26	QP
2	0.1796	34.74	9.65	44.39	66.00	-21.61	AVG
3	0.2672	43.90	9.65	53.55	79.00	-25.45	QP
4	0.2672	28.31	9.65	37.96	66.00	-28.04	AVG
5	0.4260	38.10	9.68	47.78	79.00	-31.22	QP
6	0.4260	17.81	9.68	27.49	66.00	-38.51	AVG
7	6.2700	42.91	9.95	52.86	73.00	-20.14	QP
8	6.2700	31.56	9.95	41.51	60.00	-18.49	AVG
9	9.4500	35.93	10.07	46.00	73.00	-27.00	QP
10	9.4500	26.17	10.07	36.24	60.00	-23.76	AVG
11	25.8940	27.50	10.56	38.06	73.00	-34.94	QP
12	25.8940	18.92	10.56	29.48	60.00	-30.52	AVG

5.2 Radiated Emission

Results:

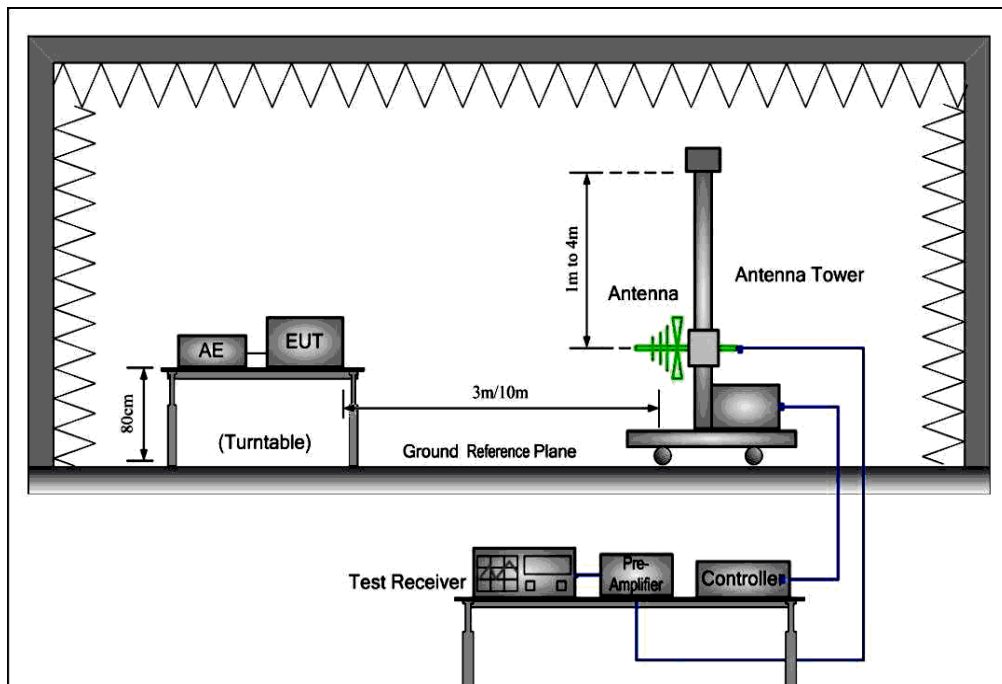
Pass

Date of testing : 07 June 2016
 Test procedure : ANSI C63.4:2014
 Frequency range : 30- 1000MHz
 Kind of test site : Semi-Anechoic chamber
 Limits : FCC PART 15 Subpart B: 2015

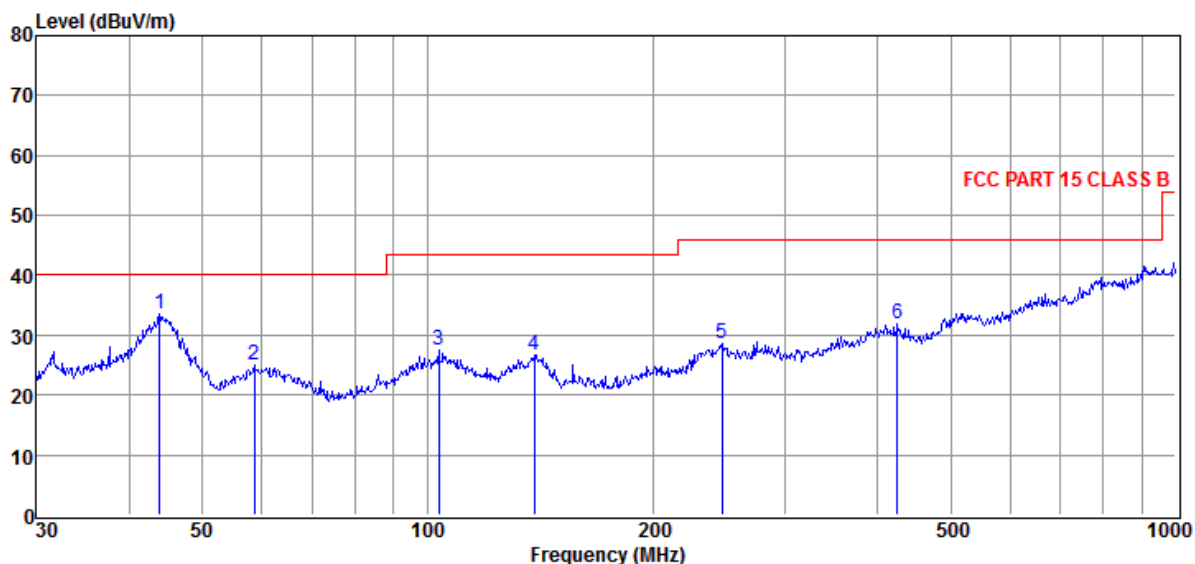
Test setup:

Input Voltage : 120Vac& 277Vac, 60Hz
 Operation Mode : Test in lighting mode
 Artificial Hand : Not applied
 Earthing : Not applied
 Temperature : 24°C
 Humidity : 60%
 Air pressure : 101KPA

Test Connection Diagram



Test Data:
Model: ESS030W-0900-27 with 120Vac,60Hz

Peak Scan:
Horizontal

Quasi-peak measurement:

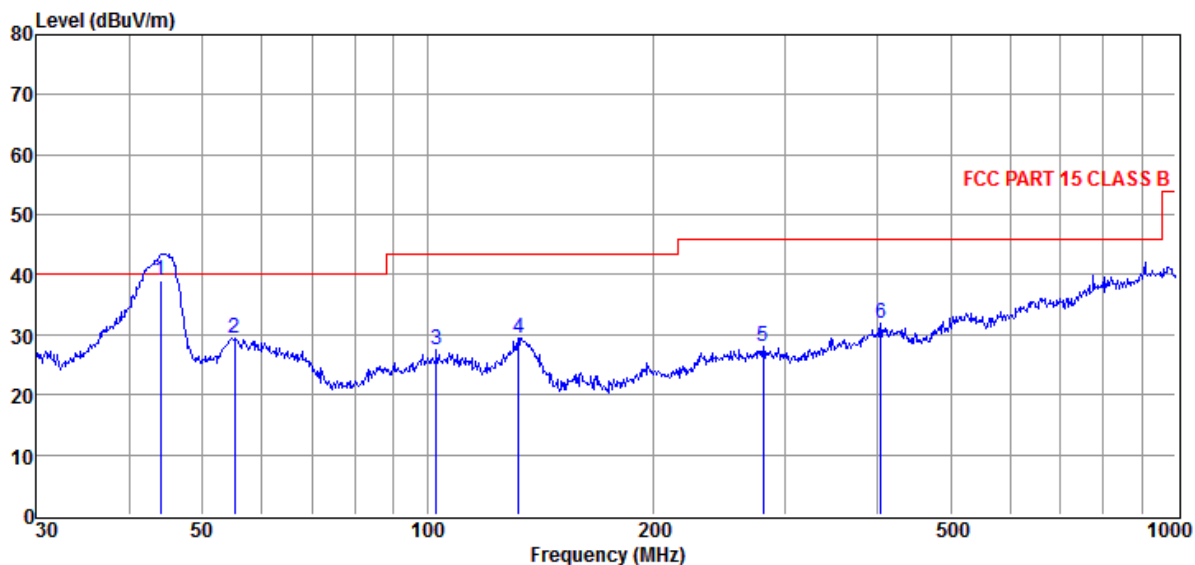
Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	43.81	15.95	16.86	0.00	0.64	33.45	40.00	-6.55	Peak	HORIZONTAL
2	58.61	13.75	10.51	0.00	0.75	25.01	40.00	-14.99	Peak	HORIZONTAL
3	103.44	14.48	11.94	0.00	1.04	27.46	43.50	-16.04	Peak	HORIZONTAL
4	138.87	17.62	7.87	0.00	1.21	26.70	43.50	-16.80	Peak	HORIZONTAL
5	247.68	14.91	11.96	0.00	1.69	28.56	46.00	-17.44	Peak	HORIZONTAL
6	425.03	13.98	15.60	0.00	2.36	31.94	46.00	-14.06	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

Peak Scan:
Vertical:



Quasi-peak measurement:

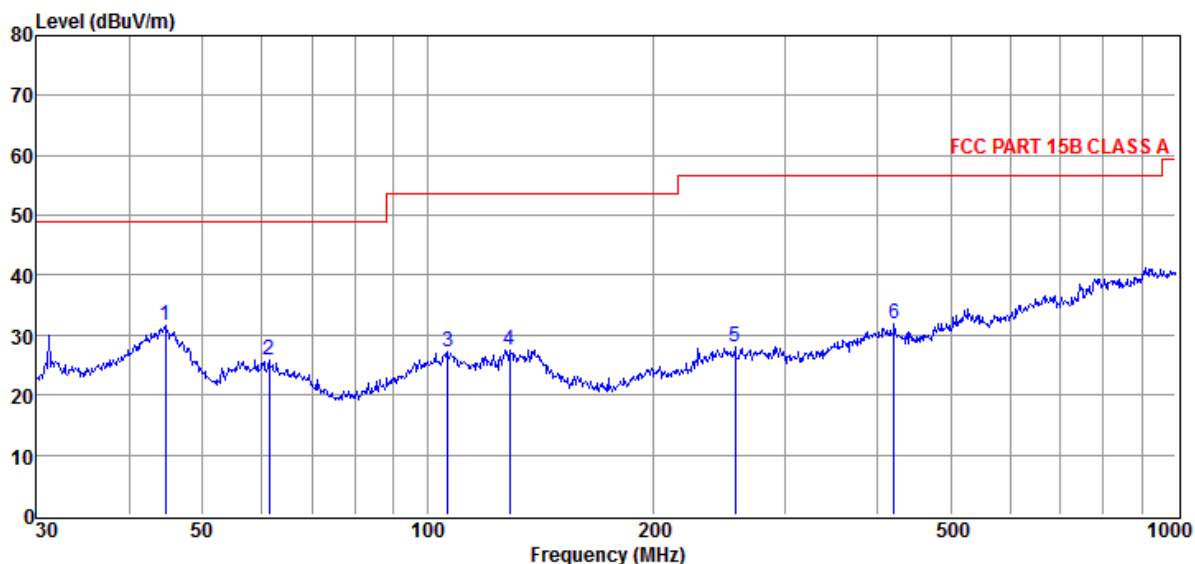
Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	43.97	21.30	16.97	0.00	0.64	38.91	40.00	-1.09	QP	VERTICAL
2	55.22	19.56	9.19	0.00	0.72	29.47	40.00	-10.53	Peak	VERTICAL
3	102.72	14.67	11.91	0.00	1.03	27.61	43.50	-15.89	Peak	VERTICAL
4	132.22	20.06	8.27	0.00	1.18	29.51	43.50	-13.99	Peak	VERTICAL
5	281.01	13.41	12.76	0.00	1.82	27.99	46.00	-18.01	Peak	VERTICAL
6	403.25	13.55	16.03	0.00	2.27	31.85	46.00	-14.15	Peak	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

Test Data:
Model: ESS030W-0900-27 with 277Vac,60Hz

Peak Scan:
Horizontal

Quasi-peak 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	44.59	14.24	16.71	0.00	0.64	31.59	49.00	-17.41	Peak	HORIZONTAL
2	61.35	14.57	10.54	0.00	0.77	25.88	49.00	-23.12	Peak	HORIZONTAL
3	106.39	14.29	11.86	0.00	1.05	27.20	53.50	-26.30	Peak	HORIZONTAL
4	128.56	17.95	8.49	0.00	1.16	27.60	53.50	-25.90	Peak	HORIZONTAL
5	257.42	14.03	12.25	0.00	1.73	28.01	56.50	-28.49	Peak	HORIZONTAL
6	420.58	13.68	15.78	0.00	2.34	31.80	56.50	-24.70	Peak	HORIZONTAL

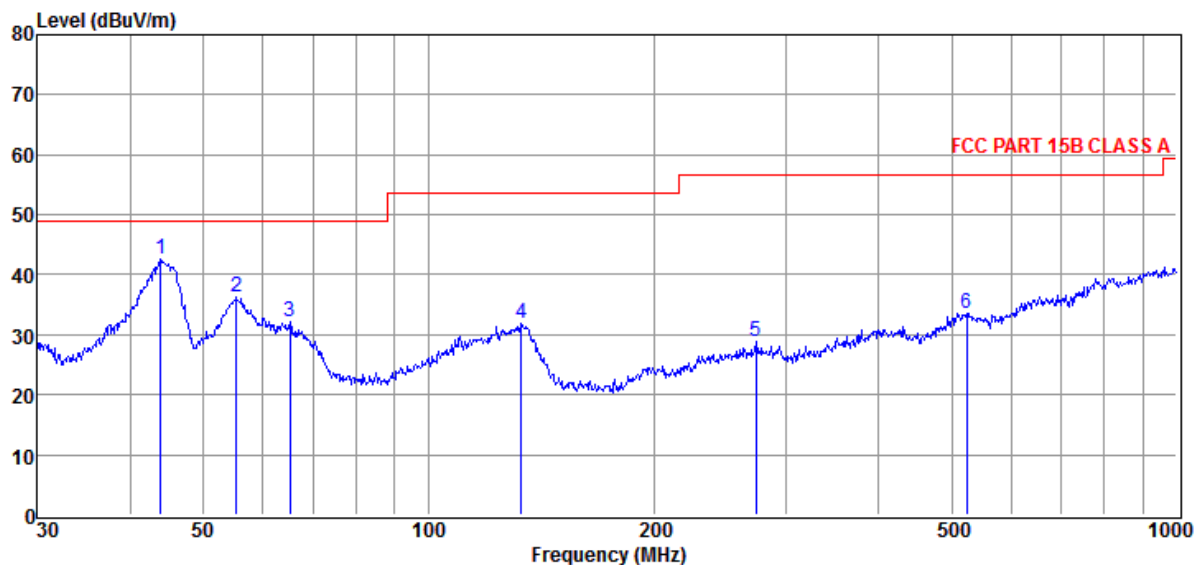
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

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

Peak Scan:

Vertical:



Quasi-peak measurement:

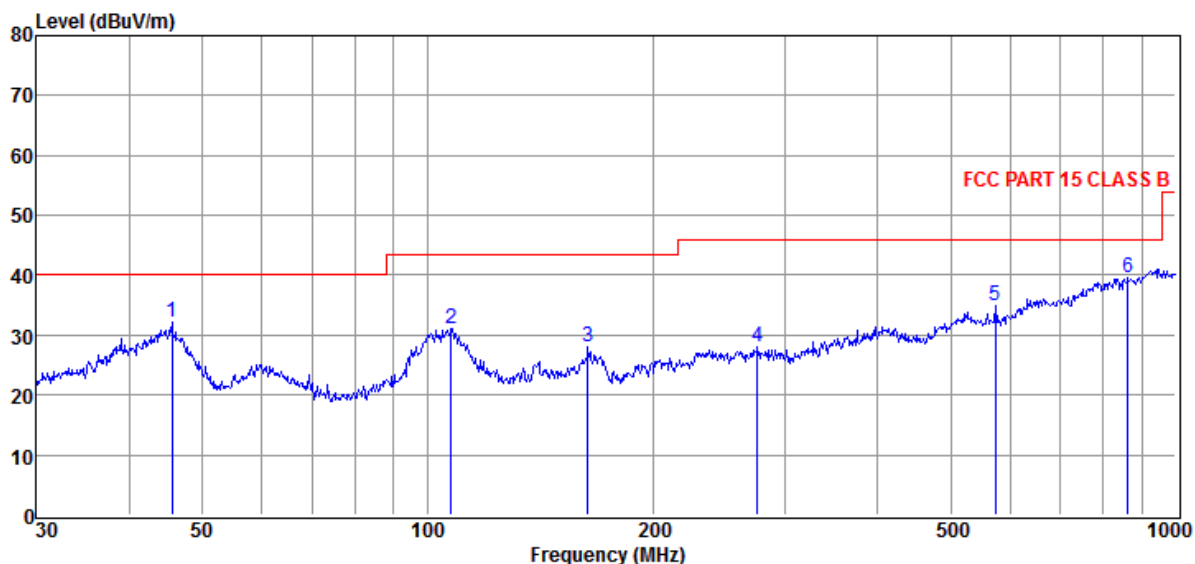
Item (Mark)	Freq (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	43.81	24.97	16.86	0.00	0.64	42.47	49.00	-6.53	Peak	VERTICAL
2	55.42	26.21	9.27	0.00	0.73	36.21	49.00	-12.79	Peak	VERTICAL
3	65.34	22.08	9.19	0.00	0.80	32.07	49.00	-16.93	Peak	VERTICAL
4	133.15	22.51	8.21	0.00	1.18	31.90	53.50	-21.60	Peak	VERTICAL
5	274.19	14.24	12.84	0.00	1.79	28.87	56.50	-27.63	Peak	VERTICAL
6	524.55	12.83	18.04	0.00	2.70	33.57	56.50	-22.93	Peak	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

Test Data:
Model: ESS040W-1400-27 with 120Vac,60Hz

Peak Scan:
Horizontal

Quasi-peak 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	45.54	15.32	16.23	0.00	0.65	32.20	40.00	-7.80	Peak	HORIZONTAL
2	107.51	18.32	11.75	0.00	1.06	31.13	43.50	-12.37	Peak	HORIZONTAL
3	163.76	19.71	7.12	0.00	1.32	28.15	43.50	-15.35	Peak	HORIZONTAL
4	276.12	13.44	12.88	0.00	1.80	28.12	46.00	-17.88	Peak	HORIZONTAL
5	574.63	14.85	17.10	0.00	2.86	34.81	46.00	-11.19	Peak	HORIZONTAL
6	863.06	14.10	21.56	0.00	3.82	39.48	46.00	-6.52	Peak	HORIZONTAL

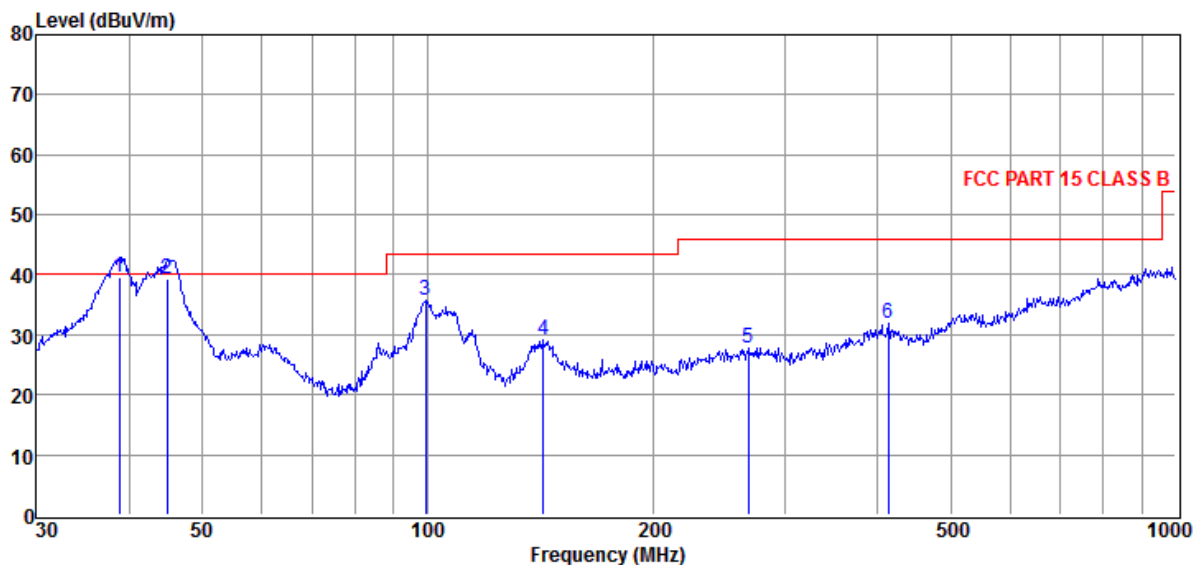
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

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

Peak Scan:

Vertical:



Quasi-peak 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	38.75	26.00	12.97	0.00	0.60	39.57	40.00	-0.43	QP	VERTICAL
2	44.90	22.00	16.54	0.00	0.65	39.19	40.00	-0.81	QP	VERTICAL
3	99.53	22.89	11.71	0.00	1.02	35.62	43.50	-7.88	Peak	VERTICAL
4	142.82	20.26	7.74	0.00	1.23	29.23	43.50	-14.27	Peak	VERTICAL
5	268.49	13.61	12.44	0.00	1.77	27.82	46.00	-18.18	Peak	VERTICAL
6	413.27	13.59	16.00	0.00	2.31	31.90	46.00	-14.10	Peak	VERTICAL

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

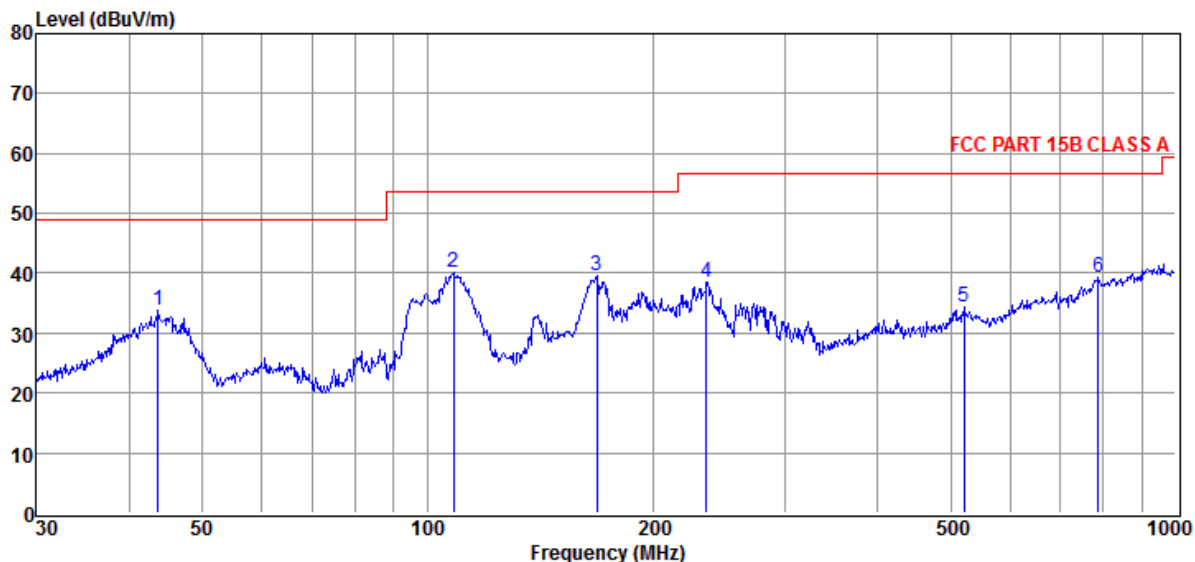
2. If Peak Result comply with QP limit, QP Result is deemed to comply with QP limit

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

Test Data:
Model: ESS040W-1400-27 with 277Vac,60Hz

Peak Scan:

Horizontal


Quasi-peak 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	43.66	16.40	16.74	0.00	0.64	33.78	49.00	-15.22	Peak	HORIZONTAL
2	108.27	27.50	11.67	0.00	1.06	40.23	53.50	-13.27	Peak	HORIZONTAL
3	168.41	31.37	6.83	0.00	1.34	39.54	53.50	-13.96	Peak	HORIZONTAL
4	235.82	25.33	11.63	0.00	1.64	38.60	56.50	-17.90	Peak	HORIZONTAL
5	520.89	13.67	17.93	0.00	2.69	34.29	56.50	-22.21	Peak	HORIZONTAL
6	787.85	14.11	21.68	0.00	3.58	39.37	56.50	-17.13	Peak	HORIZONTAL

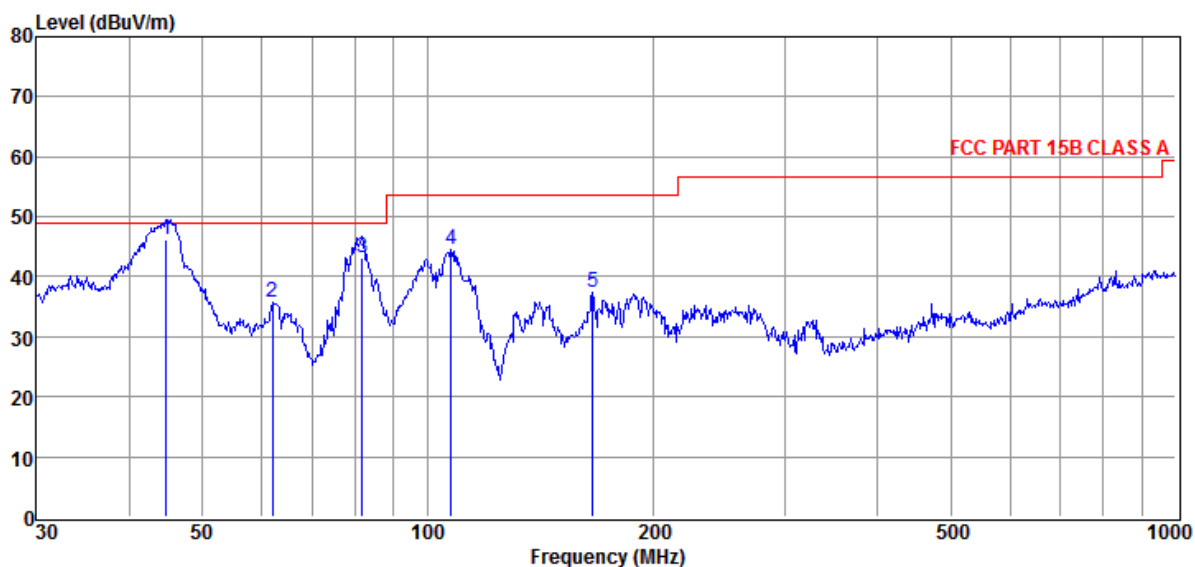
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

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

Peak Scan:

Vertical:



Quasi-peak 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	44.74	29.00	16.62	0.00	0.65	46.27	49.00	-2.73	QP	VERTICAL
2	62.00	24.68	10.31	0.00	0.77	35.76	49.00	-13.24	Peak	VERTICAL
3	81.78	35.30	6.97	0.00	0.91	43.18	49.00	-5.82	QP	VERTICAL
4	107.51	31.65	11.75	0.00	1.06	44.46	53.50	-9.04	Peak	VERTICAL
5	166.07	28.98	7.01	0.00	1.33	37.32	53.50	-16.18	Peak	VERTICAL

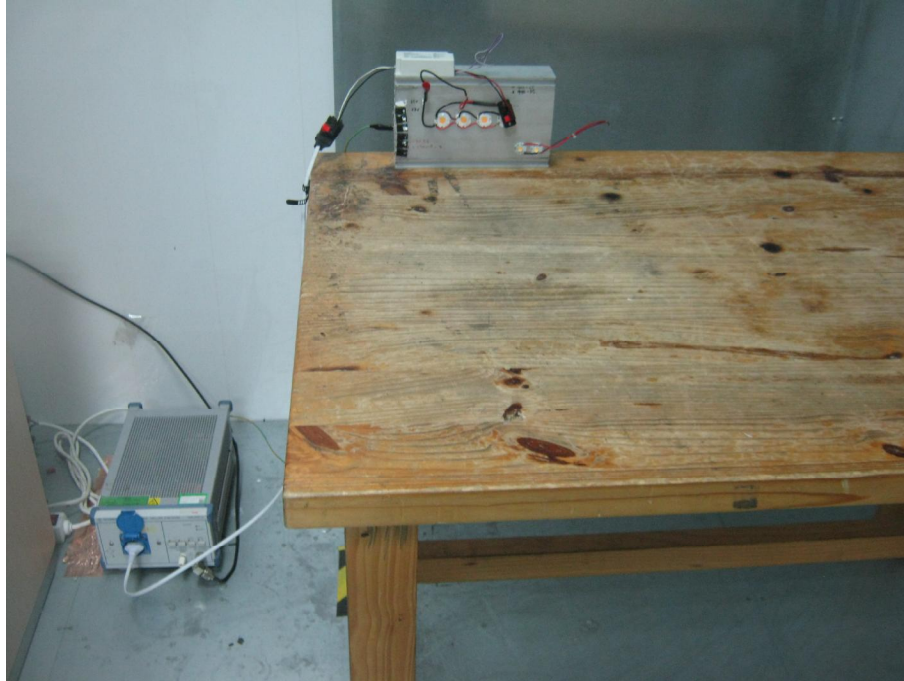
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss

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

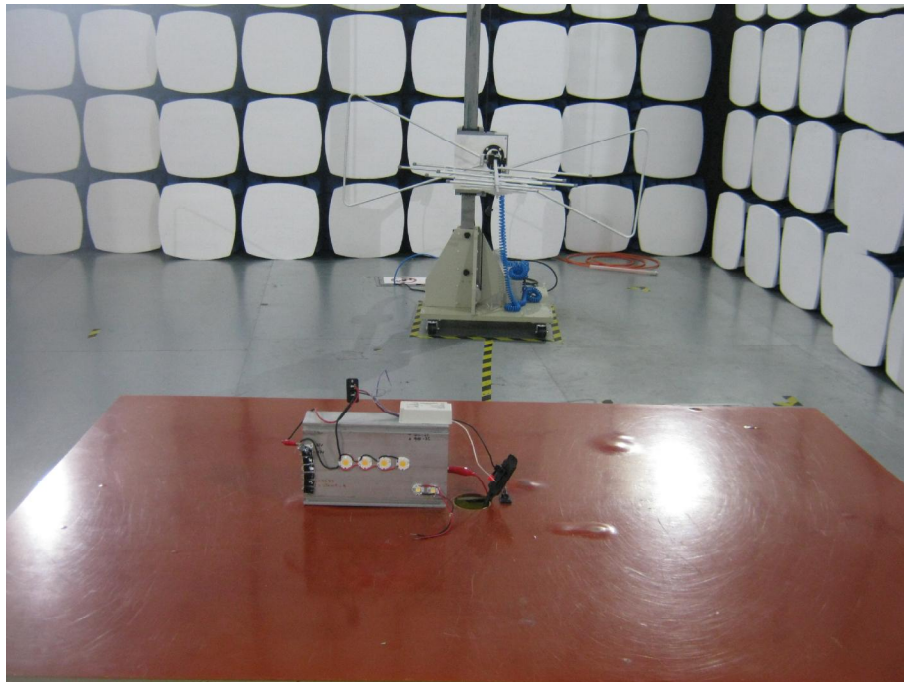
3. Test setup: RBW: 120kHz, VBW: 300kHz, Sweep time: auto

6 The photos of test setting

Terminal Continuous Disturbance Voltage:



Radiated Emission:

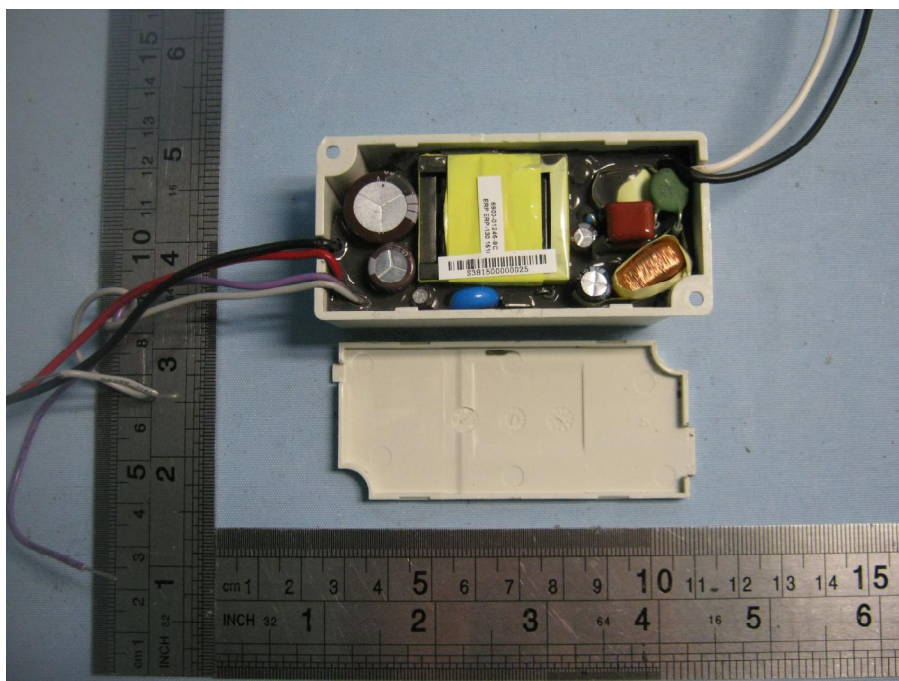


7 The photos of EUT

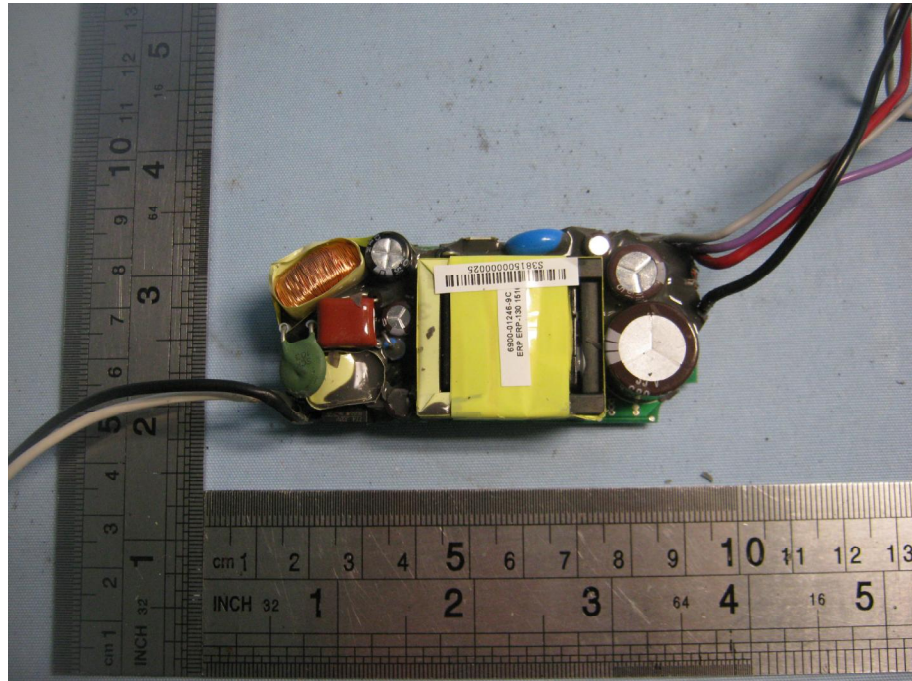
Model: ESS030W-0900-27



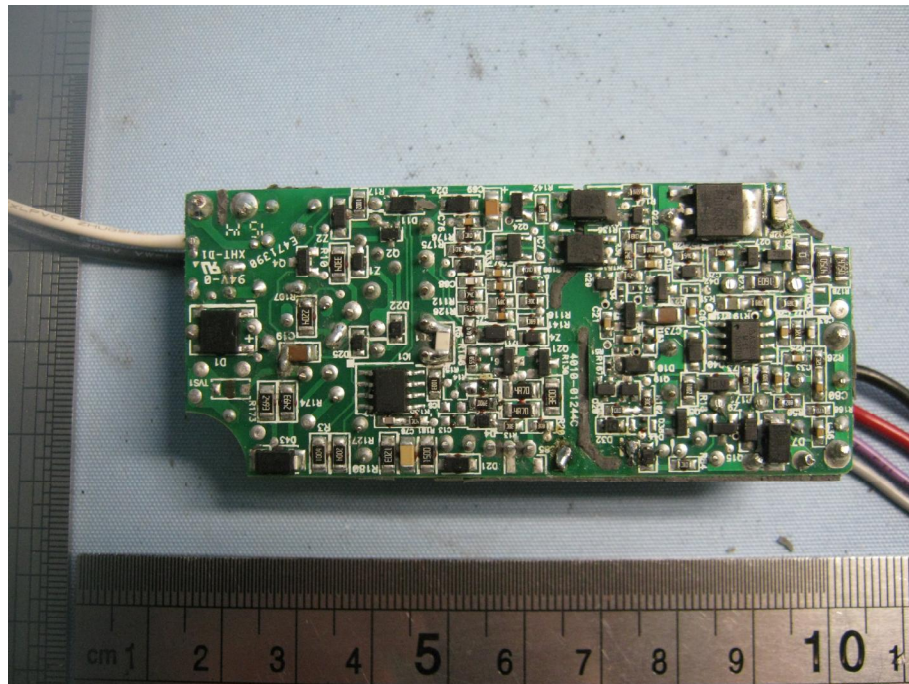
Picture 1



Picture 2



Picture 3

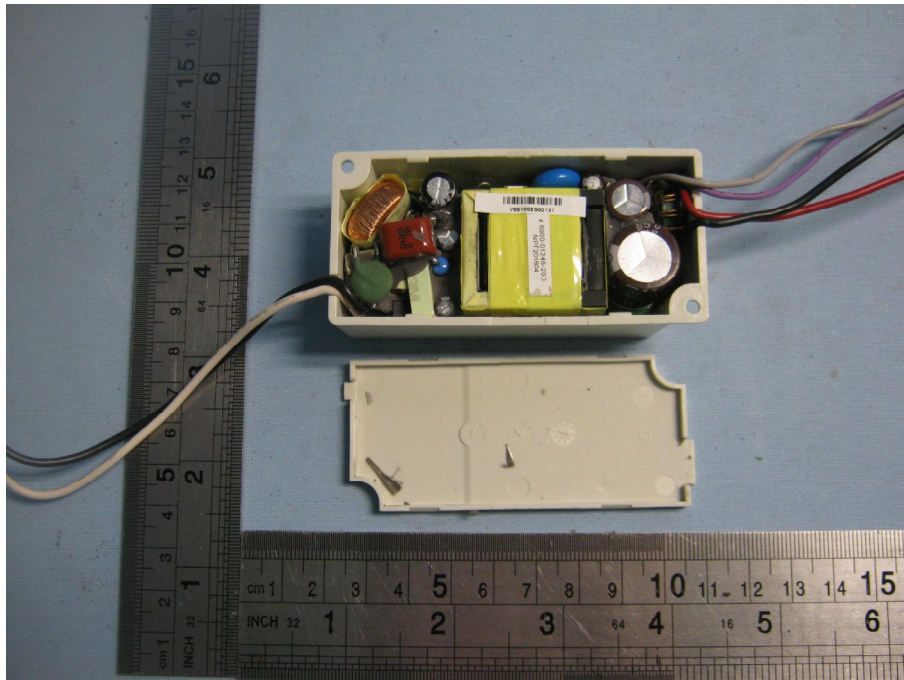


Picture 4

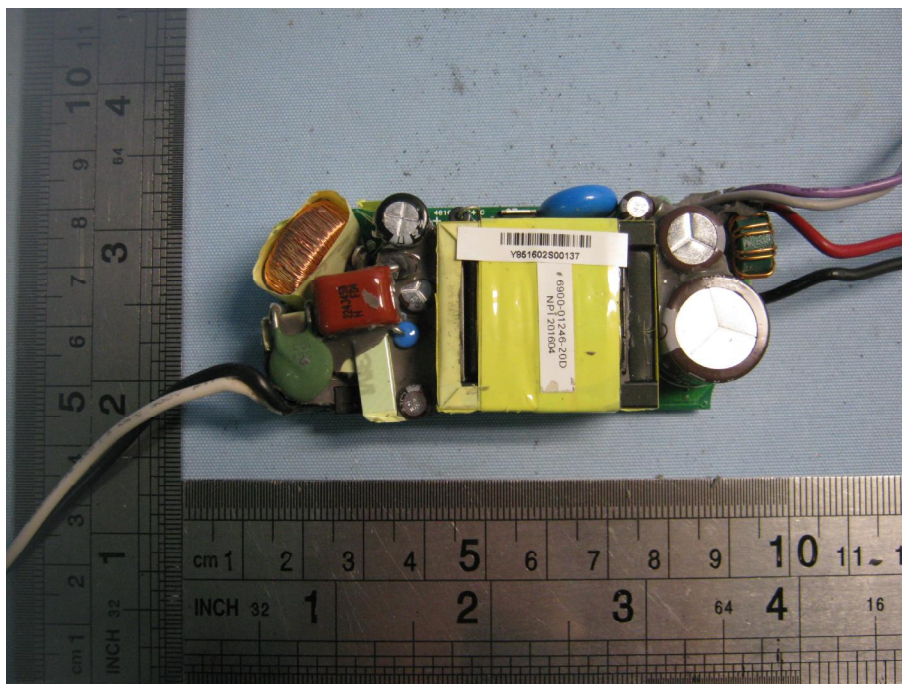
Model: ESS040W-1400-27



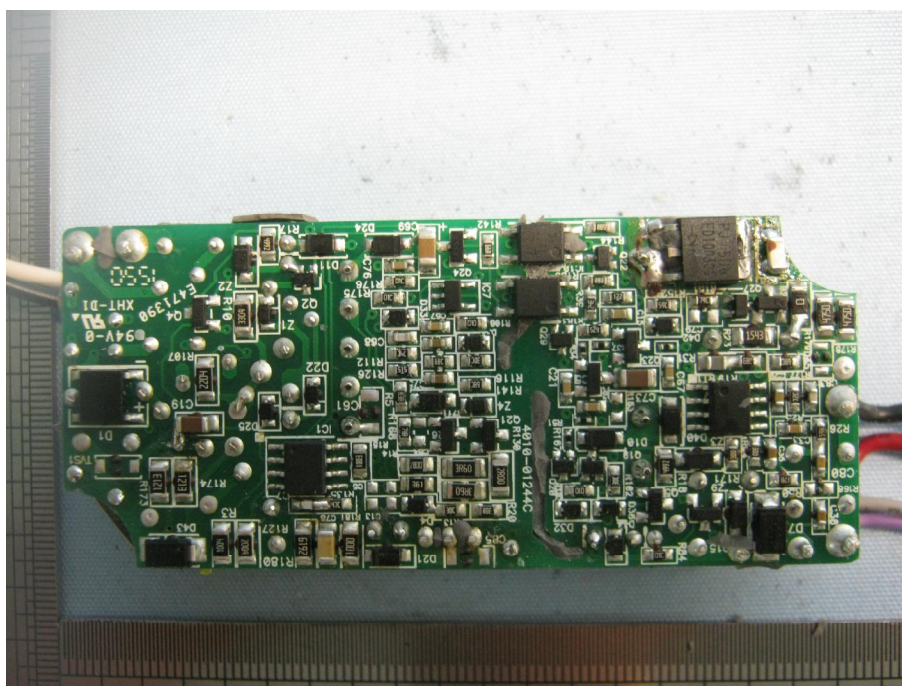
Picture 5



Picture 6



Picture 7



Picture 8

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