TEST REPORT

Report Reference No.	EP25060200F02
Engineer (name + signature)	Dora Ning
Approved by (name + signature)	Eric Liu
Date of Receipt of EUT	2025-09-25
Date of Test	2025-09-26 to 2025-10-09
Date of issue	2025-10-15
Testing Laboratory	Dongguan Pubiao Testing Technology Co., Ltd.
Address	Room 101, Building 1, No.30, Minghua Road, Shijie, Shijie Town, Dongguan, Guangdong, China.
Applicant's name	Xinsu Global Electronic Co., Limited
Address	Unit 2508A, 25/F Bank Of America Tower, 12 Harcourt Road, Central, HONG KONG
Manufacturer's name	Xinsu Global Electronic Co., Limited
Address	Unit 2508A, 25/F Bank Of America Tower, 12 Harcourt Road, Central, HONG KONG
Factory's name	Xinsu Global Electronic Co., Limited
Address	3rd Floor, No. 1 Building, C District, 108 Honghu Road, Yanluo Street, Bao'an District, 518127 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

Test specification:

EUT description .....:	SWITCHING POWER SUPPLY/CHARGER
Trade Mark .....:	Xinsu Global®
Model/Type reference .....:	XSGxxxyyyyUS L1, XSGxxxyyyy L1, XSExxxyyyy L1, XSECxxxyyyy L1, XSECxxxyyyyUS L1, XSExxxyyyyUS L1, XSGxxxyyyyUS, XSGxxxyyyy, XSExxxyyyy, XSECxxxyyyy, XSECxxxyyyyUS, XSExxxyyyyUS (xxx and yyyy are variables, see section 1.1 for details)
Test Sample……..…….:	XSG0505000US L1, XSG1203000 L1, XSEC3001330 L1, XSG4800780US L1
Ratings .....:	Input: 100-240VAC, 50/60Hz, 1.3A Max Output: See section 1.1 for details
Standards .....:	FCC Part 15 Subpart B ANSI C63.4:2014

The device described above was tested by Dongguan Pubiao Testing Technology Co., Ltd. to determine the maximum emission levels emanated from the device and severity levels of the device endure and its performance criterion. The measurement results are contained in this test report and Dongguan Pubiao Testing Technology Co., Ltd. assumes full responsibility for the accuracy and completeness of these measurements. This report shows the EUT is technically compliance with the above official standards.

This report applies to the above sample only and shall not be reproduced in part without written approval of Dongguan Pubiao Testing Technology Co., Ltd.

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1 GENERAL INFORMATION

1.1 GENERAL PRODUCT INFORMATION

1. These SWITCHING POWER SUPPLY/CHARGE are direct plug-in or desktop equipment, class II construction, which are designed to supply power for use in household appliances or audio/video, information and communication technology equipment, for indoor use only.
2. The Y-capacitor between primary circuit and secondary circuit of the switching power supplies can be:
   - Only one Y1-capcacitor (CY1) used, or
   -Two Y2-capacitor(CY2and CY3) in series used.

Model Description:

1. All models in XSGxxxyyyyUS L1, XSGxxxyyyyUS series are identical to each other except for the model name, output rating, plug type, secondary windings of transformer and some secondary components.

1. All models in XSGxxxyyyy L1, XSGxxxyyyy series are identical to each other except for the model name, output rating, secondary windings of transformer and some secondary components.
2. The models XSExxxyyyy L1, XSExxxyyyy are identical to the models XSGxxxyyyy L1, XSGxxxyyyy except for the model name.
3. All models in XSECxxxyyyy L1, XSECxxxyyyy series are identical to each other except for the model name, output rating, secondary windings of transformer and some secondary components.
4. All models in XSECxxxyyyyUS L1, XSECxxxyyyyUS series are identical to each other except for the model name, output rating, plug type, secondary windings of transformer and some secondary components.
5. The models XSExxxyyyyUS L1, XSExxxyyyyUS are identical to the models XSECxxxyyyyUS L1, XSECxxxyyyyUS except for the model name.
6. The models XSExxxyyyyUS L1, XSECxxxyyyyUS L1, XSExxxyyyyUS, XSECxxxyyyyUS are identical to the models XSECxxxyyyy L1, XSECxxxyyyy except the supply connecting.
7. Table - Model difference list:

Model No.	Enclosure construction	Enclosure dimension (Length x Width x Height)	Supply connecting
XSGxxxyyyyUS L1, XSGxxxyyyyUS	Direct plug-in type	91.8mm x44.9mm x 33mm	Fixed plug portion
XSGxxxyyyy L1, XSExxxyyyy L1, XSGxxxyyyy, XSExxxyyyy	Direct plug-in type	91.8mm x44.9mm x 33mm	Detachable plug portion

XSECxxxyyyyUS L1, XSECxxxyyyyUS	Desk-top type	99mm x 44mm x 31mm	Appliance inlet
XSECxxxyyyyUS L1, XSExxxyyyyUS L1, XSECxxxyyyyUS, XSExxxyyyyUS	Desk-top type	99mm x 44mm x 31mm	Non-detachable power cord

8. Model list:

Model No.	Rated output voltage (VDC)	Rated output current (A)	Maximum rated output power (W)	Transformer
XSGxxxyyyyUS L1, XSGxxxyyyy L1, XSExxxyyyy L1, XSECxxxyyyy L1, XSECxxxyyyyUS L1, XSExxxyyyyUS L1, XSGxxxyyyyUS, XSGxxxyyyy, XSExxxyyyy, XSECxxxyyyy, XSECxxxyyyyUS, XSExxxyyyyUS	3.0-7.9	0.10-5.00	25.0	TR-036B-05A
	8.0-9.0	0.10-4.00	36.0	TR-036B-12A
	9.1-12.6	0.10-3.00	37.8	
	12.7-17.0	0.10-2.50	39.6	
	17.1-30.0	0.10-2.00	40.0	TR-036B-24A
	30.1-48.0	0.10-1.32	40.0	TR-036B-36A
Remark: xxx=030-480, stands for the rated output voltage3.0VDC-48.0VDC, in step of 0.1V; yyyy=0100-5000, stands for the rated output current 0.10A-5.00A, in step of 0.01A.				

9. There are two schematic and PCB layout versions for the power supplies, only the traces of L/N before F1 and F1 two terminals, secondary circuit and layout are different.

- For models with rated output voltage 3.0-7.9VDC: Schematics and PCB layout version A;
- For models with rated output voltage 8.0-48.0VDC: Schematics and PCB layout version B.

All tests were performed on model XSG0505000US L1, XSG1203000 L1, XSEC3001330 L1, XSG4800780US L1.

The EUT passed the test.

1.2 DETAILS ABUT THE TEST LABORATORY

Test Site 1:

Company name: Dongguan Pubiao Testing Technology Co., Ltd

Address: Room 101, Building 1, No.30, Minghua Road, Shijie, Shijie Town, Dongguan, Guangdong, China.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15 Subpart B ANSI C63.4:2014	Conducted Emission	Class B	PASS	
	Radiated Emission Below 1 GHz	Class B	PASS	
	Radiated Emission Above 1 GHz	Class B	N/A	NOTE (1) NOTE (2)

NOTE:

(1) "N/A"denotes test is not applicable in this Test Report

(2) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.

2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U (dB)	NOTE
Conducted Emission	ANSI	150 KHz ~ 30MHz	3.19	

B. Radiated Measurement :

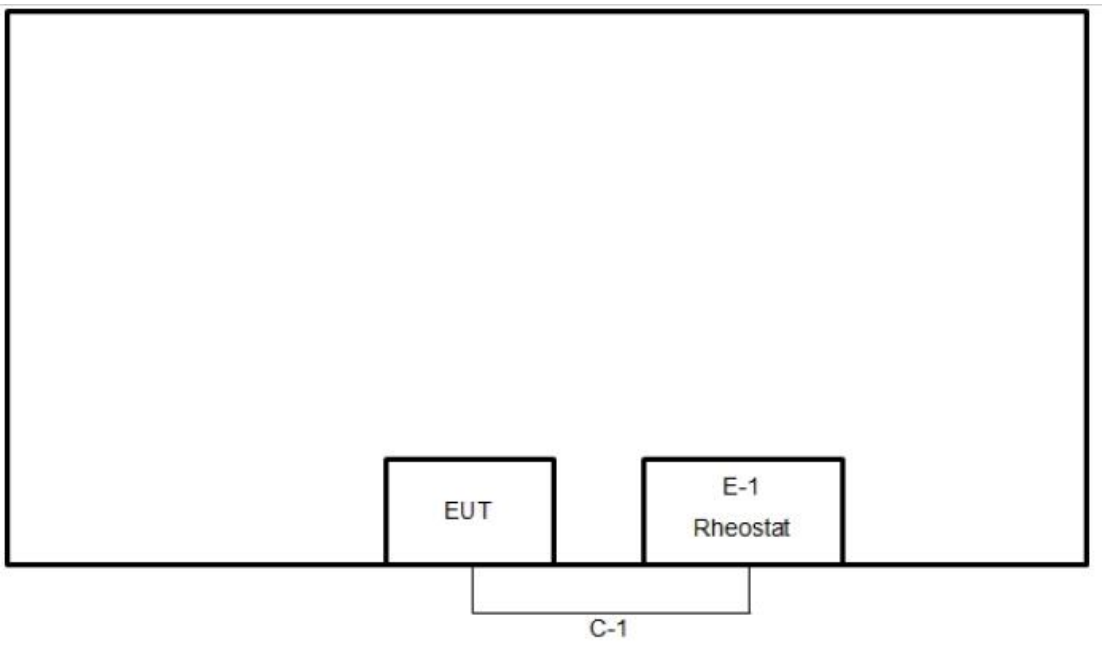
Test Site	Method	Measurement Frequency Range	Ant. H / V	U(dB)	NOTE
Radiated Emission	ANSI	30MHz ~ 1000MHz	V	4.70	
		30MHz ~ 1000MHz	H	4.84	

2.2 DESCRIPTION OF TEST MODES

Test Mode	Description
Mode 1	Full Load

Remark: All test modes were pre-mtested, but we only recorded the worst case in this report.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Specification
Rheostat	/

Type of cable
DC Cable

3. CONDUCTED EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION (MAINS PORT) (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79	66	66 to 56	56 to 46
0.50 -5.0	73	60	56	46
5.0 -30.0	73	60	60	50

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

(3) The test result calculated as following:

Factor = insertion loss (dB) + Cable Loss (dB)

Measurement (dBuV)= Factor (dB)+ Reading Level (dBuV)

Margin (dB) = Limit (dBuV) – QuasiPeak/Average Measurement (dBuV)

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	ROHDE&SCHWARZ	ESCI3	101315	2026-05-26
2	LISN	ROHDE&SCHWARZ	ENV216	102331	2026-05-26
3	Test Cable	HUBER+SUHNER	RG 223/U	1-1#	2026-05-26
4	10 db attenuator	N/A	DC-6G-10DB -N-JK	N/A	2026-05-26

Remark: ” N/A” denotes No Model No. , Serial No. or No Calibration specified.

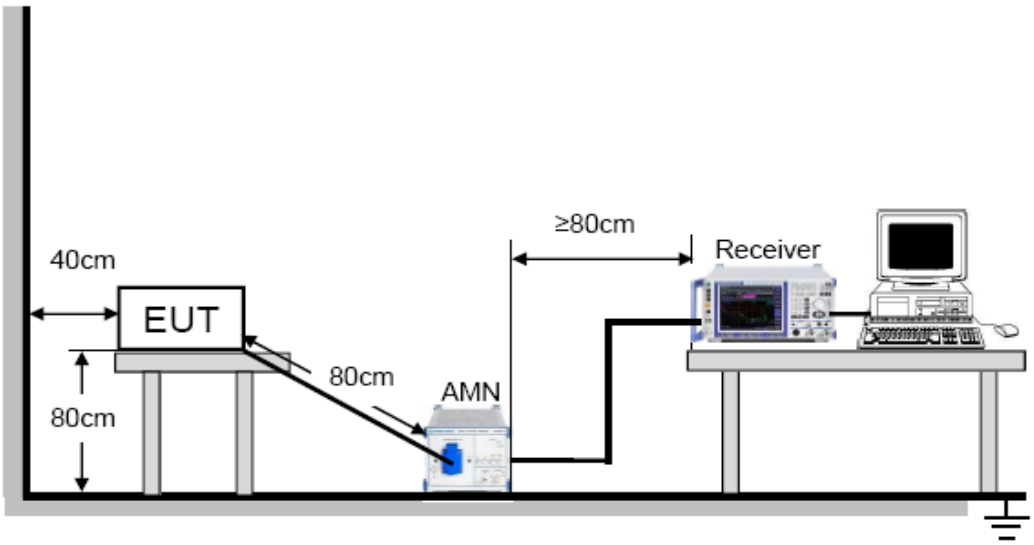
3.1.3 TEST PROCEDURE

a. The EUT was plOwend 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item:EUT Test Photos.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation

3.1.5 TEST SETUP



For the actual test configuration, please refer to Appendix: Photographs of the Conducted Emission Test.

3.1.6 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.

3.1.7 TEST RESULTS

Model No.:	XSG0505000US L1, XSG1203000 L1, XSEC3001330 L1, XSG4800780US L1
Temperature:	24℃
Relative Humidity:	55 %
Pressure:	1009 hPa

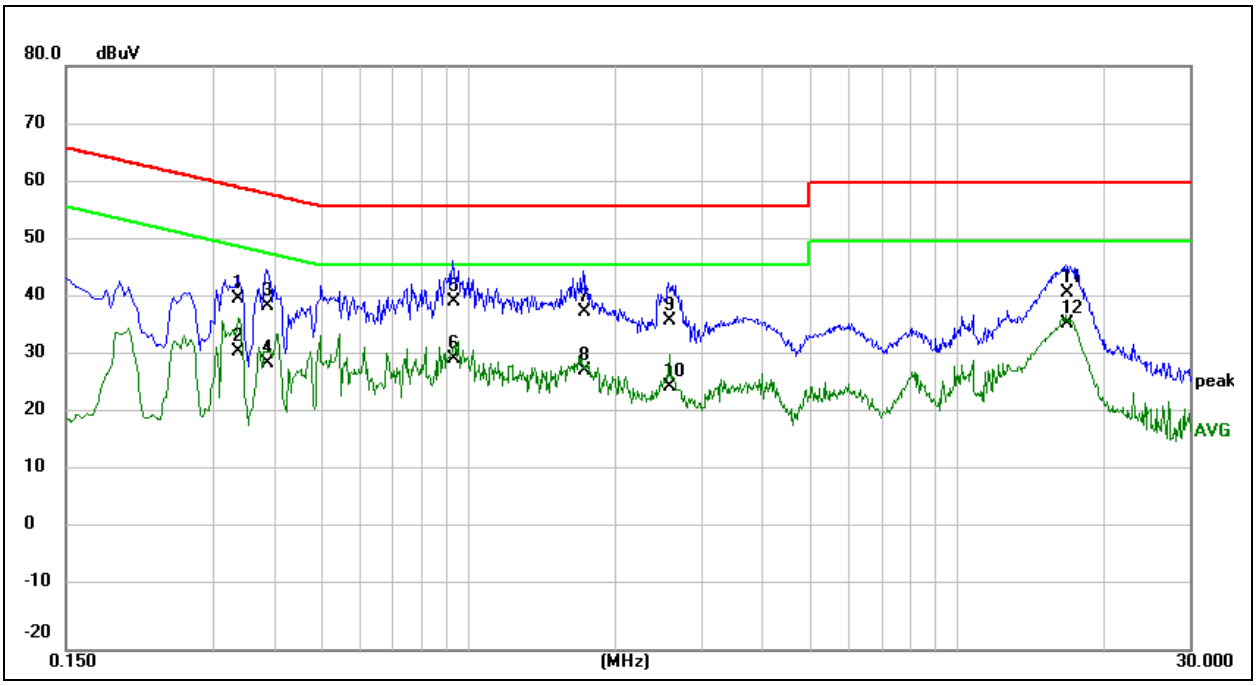
Remark:

(1) Reading in which marked as QP means measurements by using Quasi-Peak Detector, and AV means measurements by using Average Detector.

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.

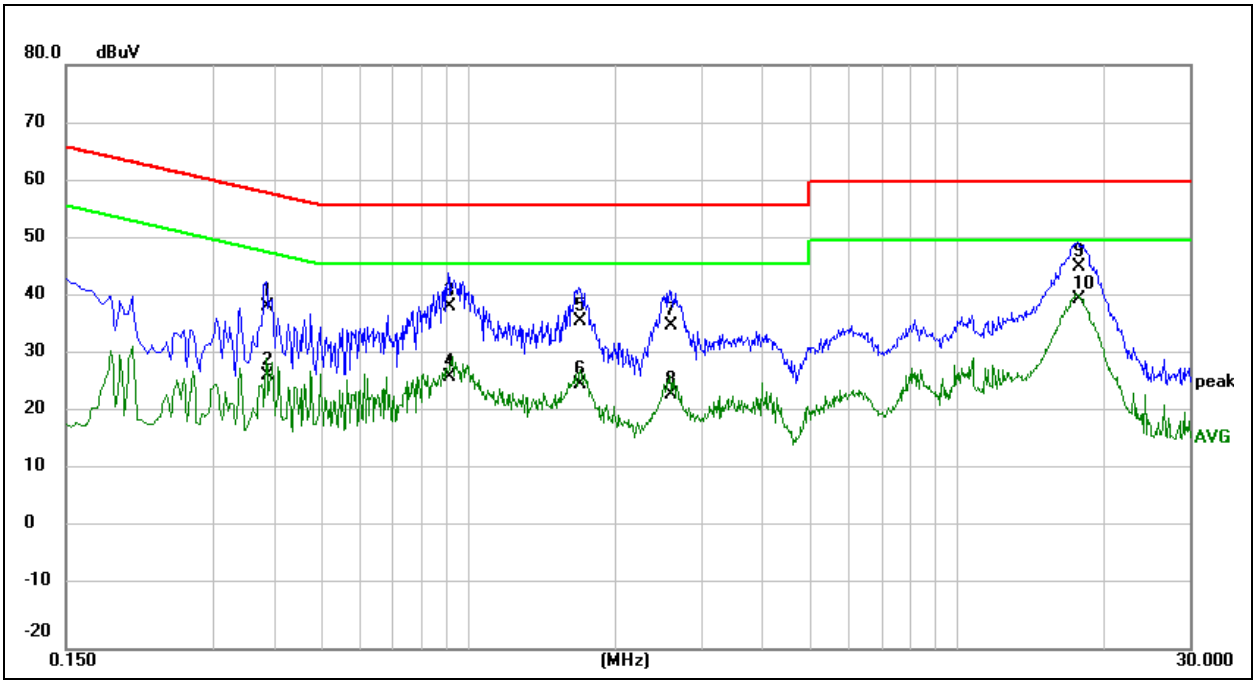
(3) Measuring frequency range from 150KHz to 30MHz.

Model No.:	XSG0505000US L1
Phase:	L1
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Conduction
Operating Mode :	Mode 1



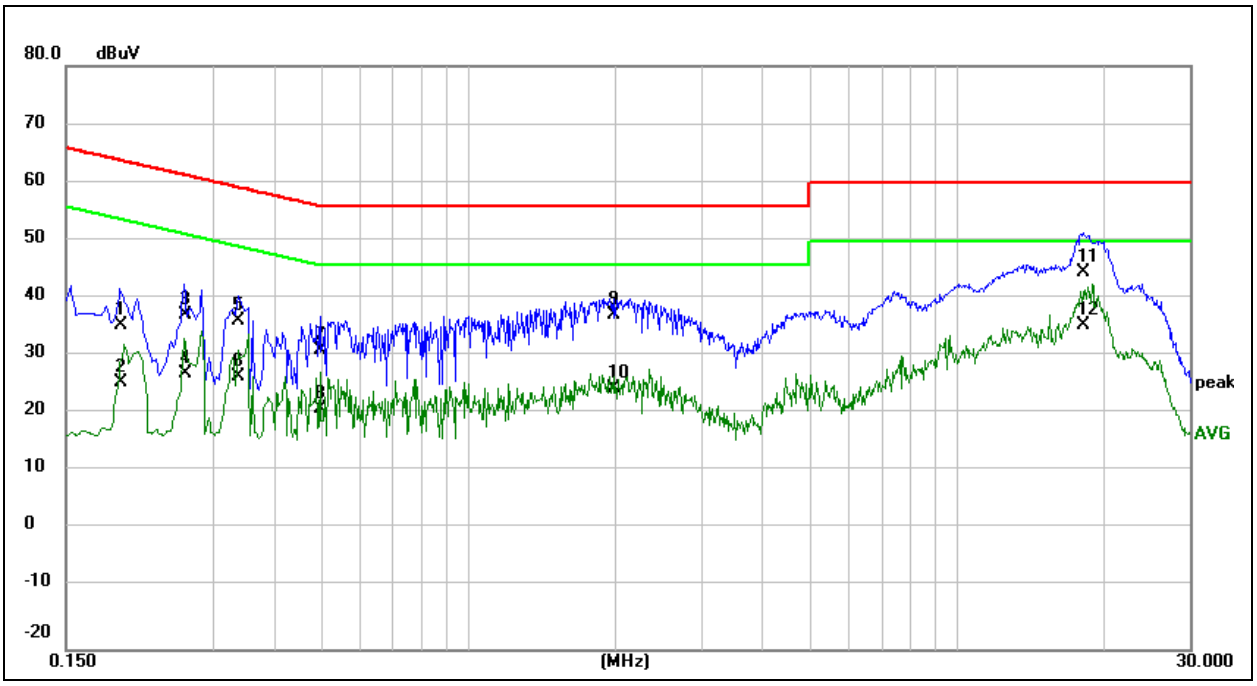
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3379	18.24	21.88	40.12	59.25	-19.13	QP
2	0.3379	9.15	21.88	31.03	49.25	-18.22	AVG
3	0.3860	17.12	21.88	39.00	58.15	-19.15	QP
4	0.3860	7.28	21.88	29.16	48.15	-18.99	AVG
5	0.9300	17.77	21.88	39.65	56.00	-16.35	QP
6	0.9300	8.10	21.88	29.98	46.00	-16.02	AVG
7	1.7180	15.94	21.88	37.82	56.00	-18.18	QP
8	1.7180	5.90	21.88	27.78	46.00	-18.22	AVG
9	2.5780	15.66	20.74	36.40	56.00	-19.60	QP
10	2.5780	4.41	20.74	25.15	46.00	-20.85	AVG
11	16.8340	21.37	19.92	41.29	60.00	-18.71	QP
12 *	16.8340	16.07	19.92	35.99	50.00	-14.01	AVG

Model No.:	XSG0505000US L1
Phase:	N
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Conduction
Operating Mode :	Mode 1



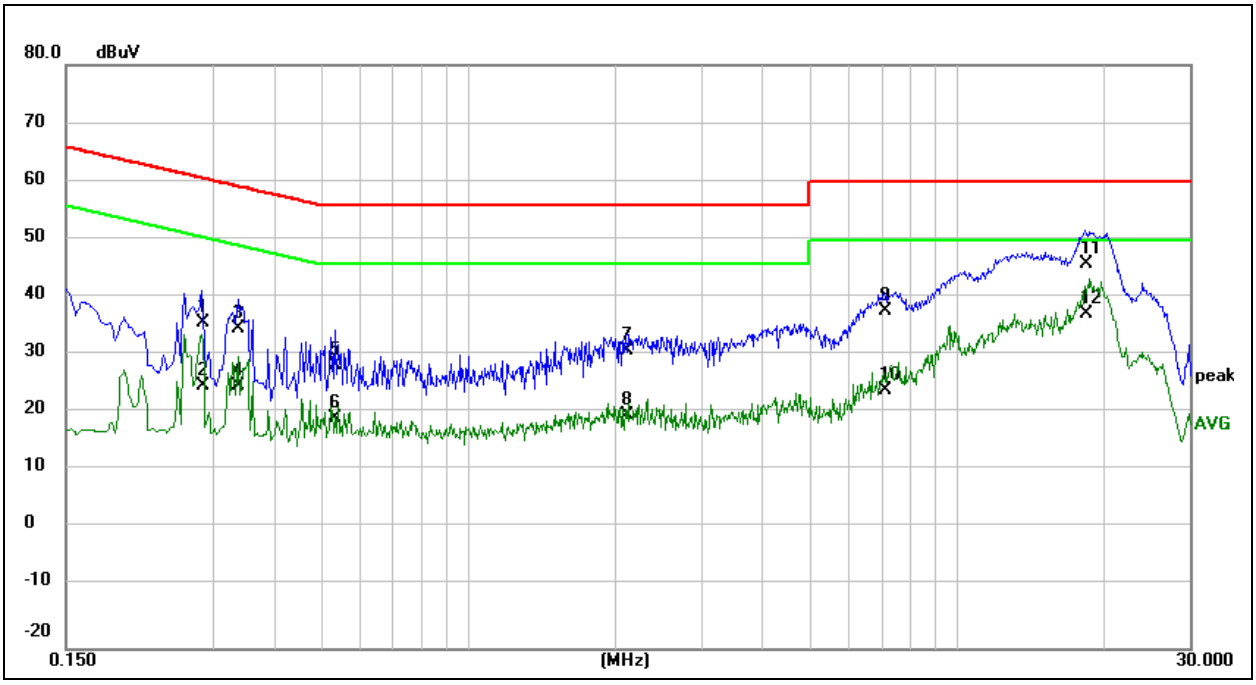
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3860	16.87	21.88	38.75	58.15	-19.40	QP
2	0.3860	5.00	21.88	26.88	48.15	-21.27	AVG
3	0.9100	16.78	21.88	38.66	56.00	-17.34	QP
4	0.9100	4.63	21.88	26.51	46.00	-19.49	AVG
5	1.6820	14.27	21.88	36.15	56.00	-19.85	QP
6	1.6820	3.47	21.88	25.35	46.00	-20.65	AVG
7	2.5940	14.79	20.71	35.50	56.00	-20.50	QP
8	2.5940	2.77	20.71	23.48	46.00	-22.52	AVG
9	17.7500	25.51	19.94	45.45	60.00	-14.55	QP
10 *	17.7500	19.91	19.94	39.85	50.00	-10.15	AVG
1	0.3860	16.87	21.88	38.75	58.15	-19.40	QP
2	0.3860	5.00	21.88	26.88	48.15	-21.27	AVG

Model No.:	XSG1203000 L1
Phase:	L1
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Conduction
Operating Mode :	Mode 1



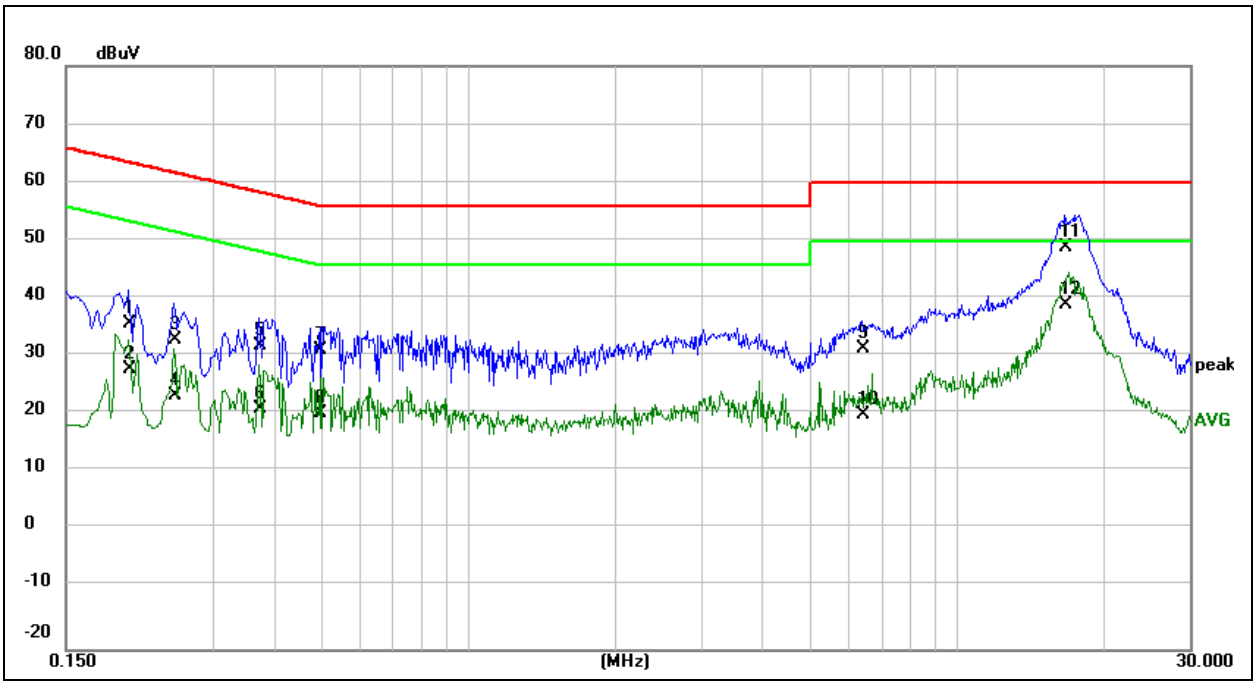
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1940	14.00	21.64	35.64	63.86	-28.22	QP
2	0.1940	4.12	21.64	25.76	53.86	-28.10	AVG
3	0.2620	15.41	21.88	37.29	61.37	-24.08	QP
4	0.2620	5.48	21.88	27.36	51.37	-24.01	AVG
5	0.3379	14.56	21.88	36.44	59.25	-22.81	QP
6	0.3379	4.97	21.88	26.85	49.25	-22.40	AVG
7	0.4980	9.37	21.89	31.26	56.03	-24.77	QP
8	0.4980	-0.68	21.89	21.21	46.03	-24.82	AVG
9	1.9820	15.52	21.88	37.40	56.00	-18.60	QP
10	1.9820	2.96	21.88	24.84	46.00	-21.16	AVG
11	18.1580	24.74	19.94	44.68	60.00	-15.32	QP
12 *	18.1580	15.81	19.94	35.75	50.00	-14.25	AVG

Model No.:	XSG1203000 L1
Phase:	N
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Conduction
Operating Mode :	Mode 1



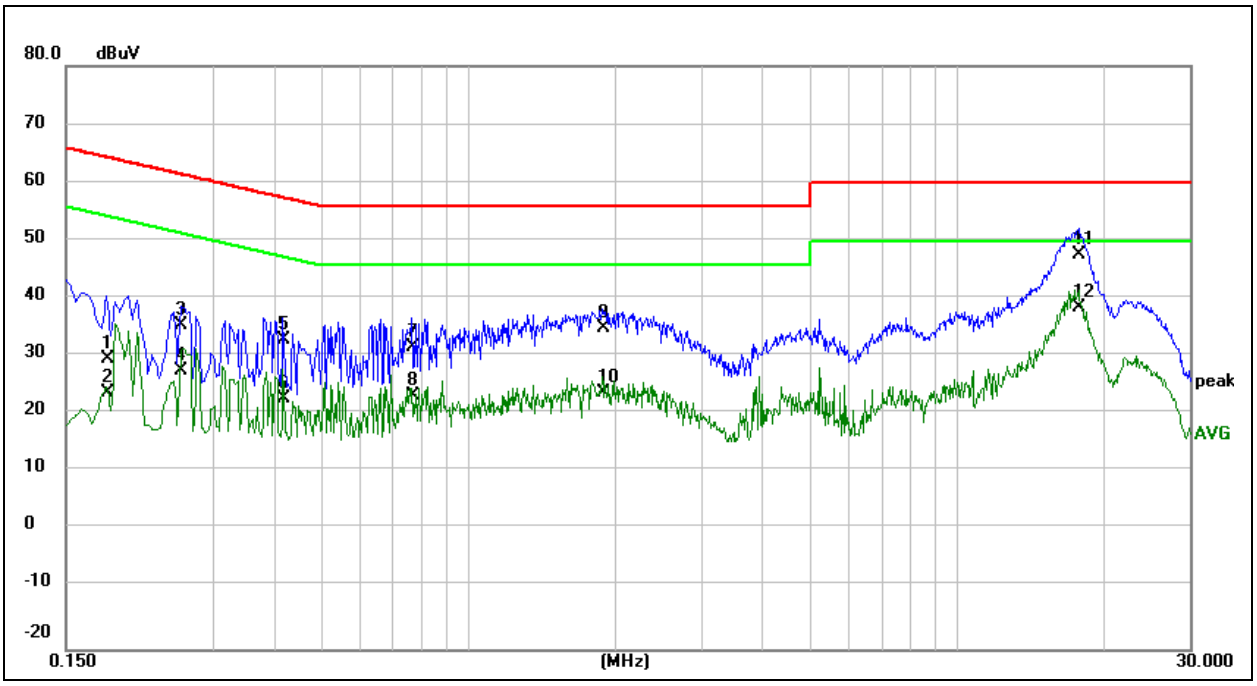
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2860	13.99	21.89	35.88	60.64	-24.76	QP
2	0.2860	3.20	21.89	25.09	50.64	-25.55	AVG
3	0.3379	12.97	21.88	34.85	59.25	-24.40	QP
4	0.3379	3.21	21.88	25.09	49.25	-24.16	AVG
5	0.5340	6.61	21.89	28.50	56.00	-27.50	QP
6	0.5340	-2.32	21.89	19.57	46.00	-26.43	AVG
7	2.1099	9.44	21.66	31.10	56.00	-24.90	QP
8	2.1099	-1.58	21.66	20.08	46.00	-25.92	AVG
9	7.1020	18.00	19.99	37.99	60.00	-22.01	QP
10	7.1020	4.46	19.99	24.45	50.00	-25.55	AVG
11	18.4060	25.91	19.95	45.86	60.00	-14.14	QP
12 *	18.4060	17.50	19.95	37.45	50.00	-12.55	AVG

Model No.:	XSEC3001330 L1
Phase:	L1
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Conduction
Operating Mode :	Mode 1



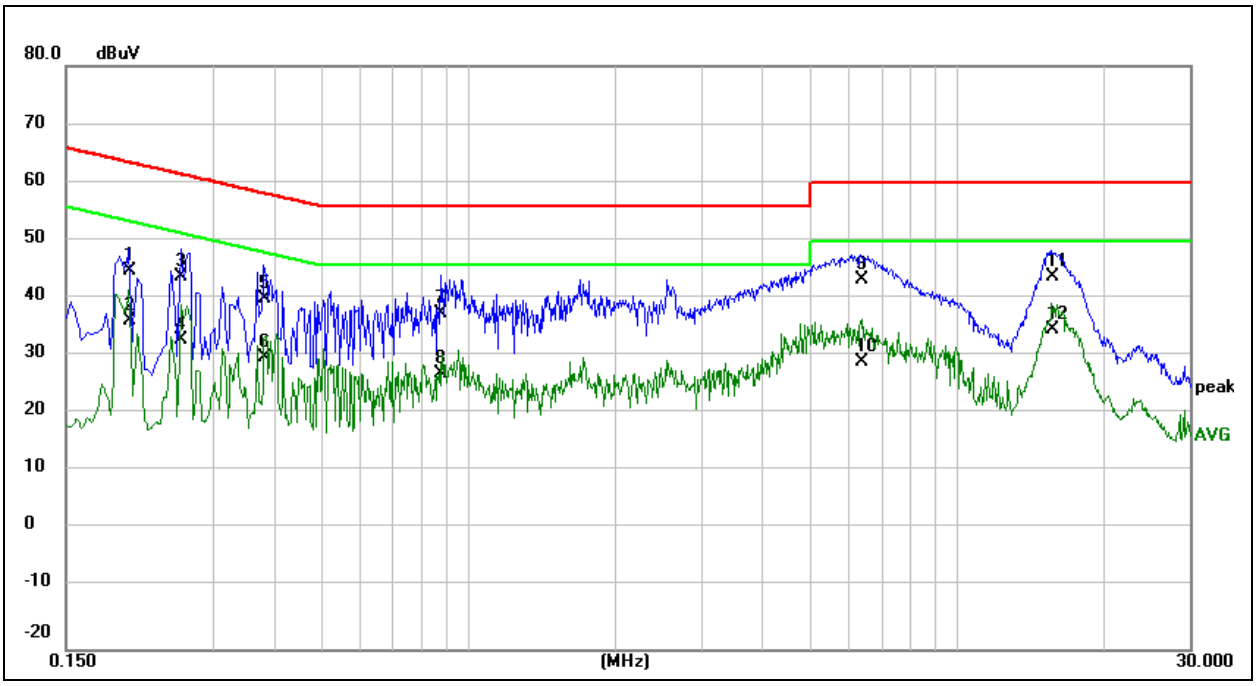
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2020	14.07	21.88	35.95	63.53	-27.58	QP
2	0.2020	6.36	21.88	28.24	53.53	-25.29	AVG
3	0.2500	11.33	21.88	33.21	61.76	-28.55	QP
4	0.2500	1.72	21.88	23.60	51.76	-28.16	AVG
5	0.3740	10.25	21.88	32.13	58.41	-26.28	QP
6	0.3740	-0.52	21.88	21.36	48.41	-27.05	AVG
7	0.4980	9.37	21.89	31.26	56.03	-24.77	QP
8	0.4980	-1.20	21.89	20.69	46.03	-25.34	AVG
9	6.3859	11.66	19.99	31.65	60.00	-28.35	QP
10	6.3859	0.29	19.99	20.28	50.00	-29.72	AVG
11 *	16.6900	29.18	19.91	49.09	60.00	-10.91	QP
12	16.6900	19.17	19.91	39.08	50.00	-10.92	AVG

Model No.:	XSEC3001330 L1
Phase:	N
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Conduction
Operating Mode :	Mode 1



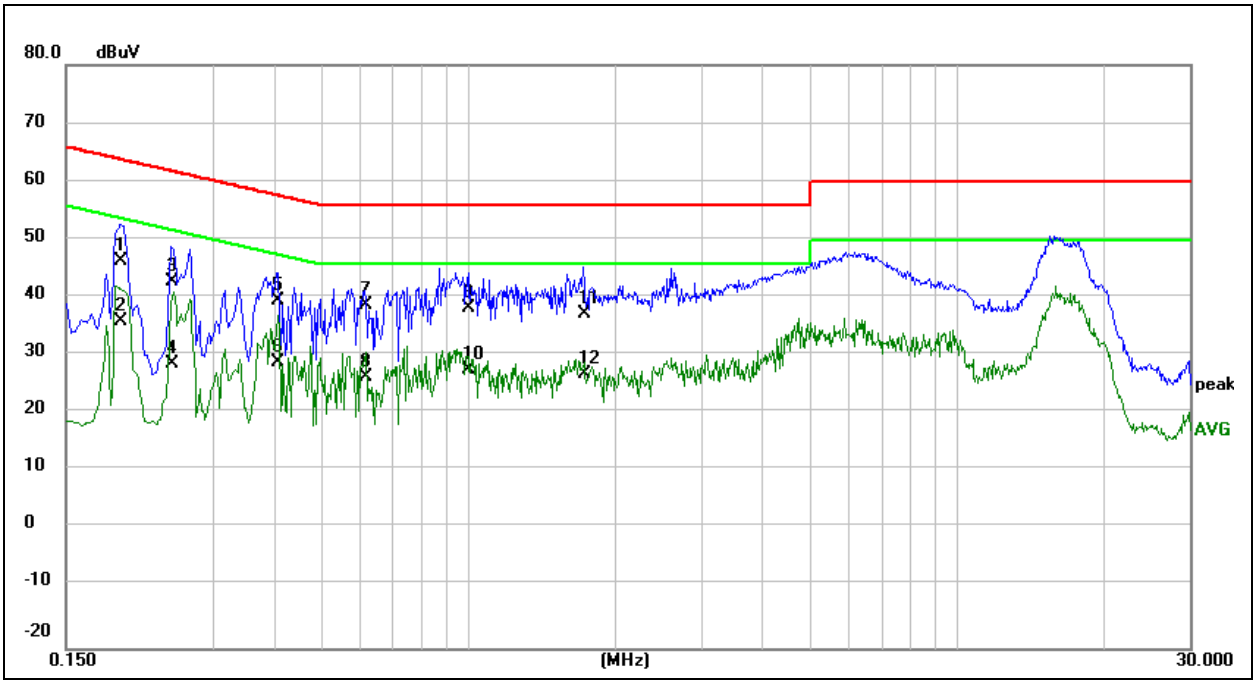
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1819	8.70	21.16	29.86	64.40	-34.54	QP
2	0.1819	2.92	21.16	24.08	54.40	-30.32	AVG
3	0.2580	13.79	21.88	35.67	61.50	-25.83	QP
4	0.2580	5.91	21.88	27.79	51.50	-23.71	AVG
5	0.4180	11.26	21.88	33.14	57.49	-24.35	QP
6	0.4180	1.25	21.88	23.13	47.49	-24.36	AVG
7	0.7700	9.97	21.89	31.86	56.00	-24.14	QP
8	0.7700	1.68	21.89	23.57	46.00	-22.43	AVG
9	1.8780	13.17	21.88	35.05	56.00	-20.95	QP
10	1.8780	2.29	21.88	24.17	46.00	-21.83	AVG
11	17.7700	27.71	19.94	47.65	60.00	-12.35	QP
12 *	17.7700	18.61	19.94	38.55	50.00	-11.45	AVG

Model No.:	XSG4800780US L1
Phase:	L1
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Conduction
Operating Mode :	Mode 1



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2020	22.95	21.95	44.90	63.53	-18.63	QP
2	0.2020	14.42	21.95	36.37	53.53	-17.16	AVG
3	0.2580	22.03	21.91	43.94	61.50	-17.56	QP
4	0.2580	11.13	21.91	33.04	51.50	-18.46	AVG
5	0.3820	18.19	21.88	40.07	58.24	-18.17	QP
6	0.3820	8.24	21.88	30.12	48.24	-18.12	AVG
7	0.8780	15.67	21.88	37.55	56.00	-18.45	QP
8	0.8780	5.55	21.88	27.43	46.00	-18.57	AVG
9	6.3780	23.55	19.99	43.54	60.00	-16.46	QP
10	6.3780	9.26	19.99	29.25	50.00	-20.75	AVG
11	15.6780	24.02	19.88	43.90	60.00	-16.10	QP
12 *	15.6780	15.01	19.88	34.89	50.00	-15.11	AVG

Model No.:	XSG4800780US L1
Phase:	N
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Conduction
Operating Mode :	Mode 1



No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1940	24.82	21.71	46.53	63.86	-17.33	QP
2	0.1940	14.34	21.71	36.05	53.86	-17.81	AVG
3	0.2460	21.01	21.92	42.93	61.89	-18.96	QP
4	0.2460	7.07	21.92	28.99	51.89	-22.90	AVG
5	0.4060	17.81	21.88	39.69	57.73	-18.04	QP
6	0.4060	7.36	21.88	29.24	47.73	-18.49	AVG
7 *	0.6140	16.97	21.89	38.86	56.00	-17.14	QP
8	0.6140	4.65	21.89	26.54	46.00	-19.46	AVG
9	1.0020	16.54	21.88	38.42	56.00	-17.58	QP
10	1.0020	5.95	21.88	27.83	46.00	-18.17	AVG
11	1.7220	15.52	21.88	37.40	56.00	-18.60	QP
12	1.7220	5.33	21.88	27.21	46.00	-18.79	AVG

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

Frequency MHz	Class A		Class B	
	10m (dBuV/m) Field strength	3m (dBuV/m) Field strength	10m (dBuV/m) Field strength	3m (dBuV/m) Field strength
30 ~ 88	39.1	49.5	29.5	40.0
88 ~ 216	43.5	54.0	33.1	43.5
216 ~ 960	46.4	56.4	35.6	46.0
960 ~ 1000	54.0	64.0	44.0	54.0

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000MHz	80	60	74	54

Notes:

(1) The limit for radiated test was performed according to as following:
FCC PART 15B

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4) The test result calculated as following:
Factor = Absorbing clamp insertion loss (dB) + Cable Loss (dB)
Level (dBuV/m)= Factor (dB)+ Reading Level (dBpW)
Margin (dB) = Limit (dBpW) – Level (dBuV/m)

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5^{th} harmonic of the highest frequency or 40 GHz, whichever is lower

3.2.2 MEASUREMENT INSTRUMENTS LIST

3m Radiated Emission Measurement 30MHz-1GHz

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	Rohde & Schwarz	ESPI3	101918	2026-05-26
2	preamplifier	ROHDE & SCHWARZ	8447E	2945A02763	2026-05-26
3	Antenna	Schwarzbeck	CBL6111C	N/A	2026-05-27
4	The RF cable	HUBER+SUHNER	RG 223/U	1-3#	2026-05-26
5	The RF cable	HUBER+SUHNER	RG 223/U	1-4#	2026-05-26
6	The RF cable	HUBER+SUHNER	RG 223/U	1-5#	2026-05-26

Remark: ” N/A” denotes No Model No. / Serial No. and No Calibration specified.

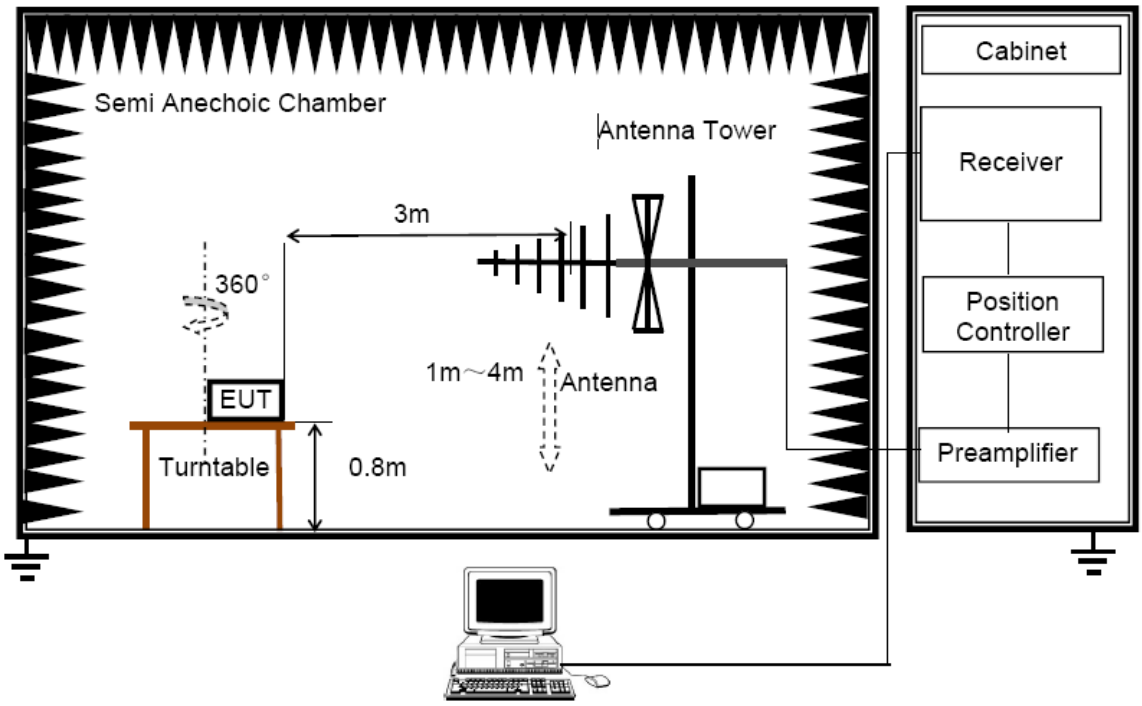
3.2.3 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was plOwend on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.2.4 DEVIATION FROM TEST STANDARD
No deviation

3.2.5 TEST SETUP

Radiated Emissions Test Set-Up Frequency 30MHz - 1GHz



For the actual test configuration, please refer to Appendix: Photographs of the Radiated Emission Test.

3.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 3.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.7 TEST RESULTS

Model No.:	XSG0505000US L1, XSG1203000 L1, XSEC3001330 L1, XSG4800780US L1
Temperature:	24℃
Relative Humidity:	55 %
Pressure:	1009 hPa

Remark：

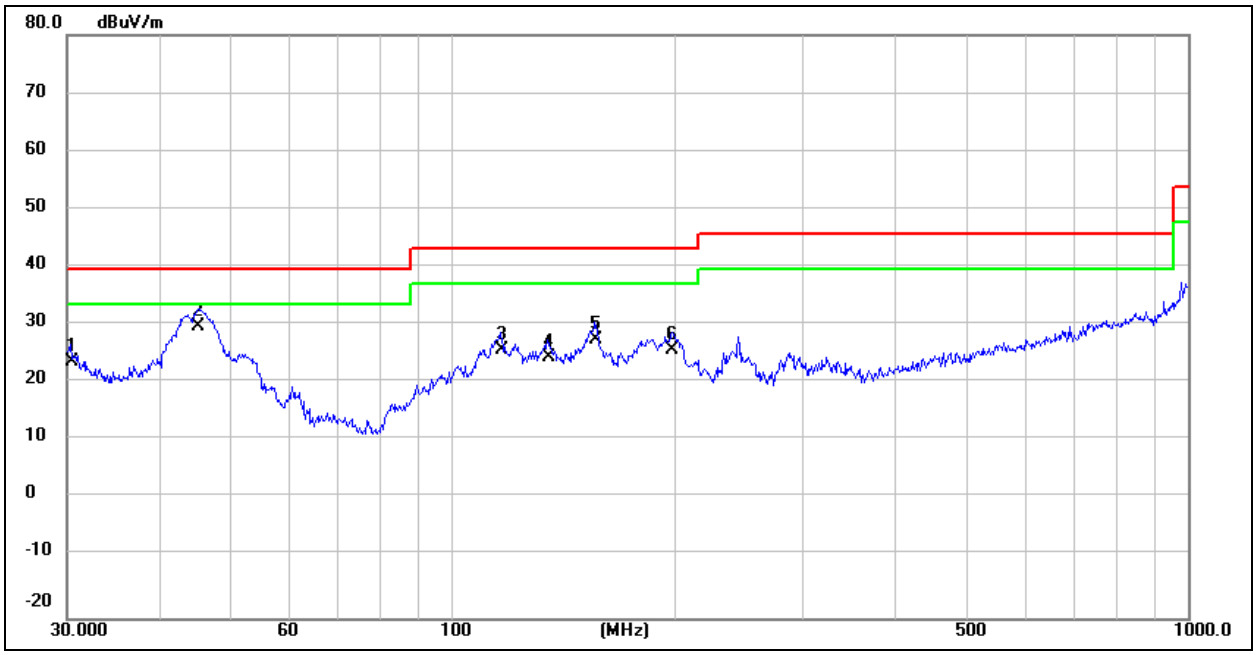
(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Detector or Peak Detector.

(2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

(3) Measuring frequency range from 30MHz to 1000MHz.

(4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table.

Model No.:	XSG0505000US L1
Phase:	Vertical
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Radiation
Operating Mode :	Mode 1

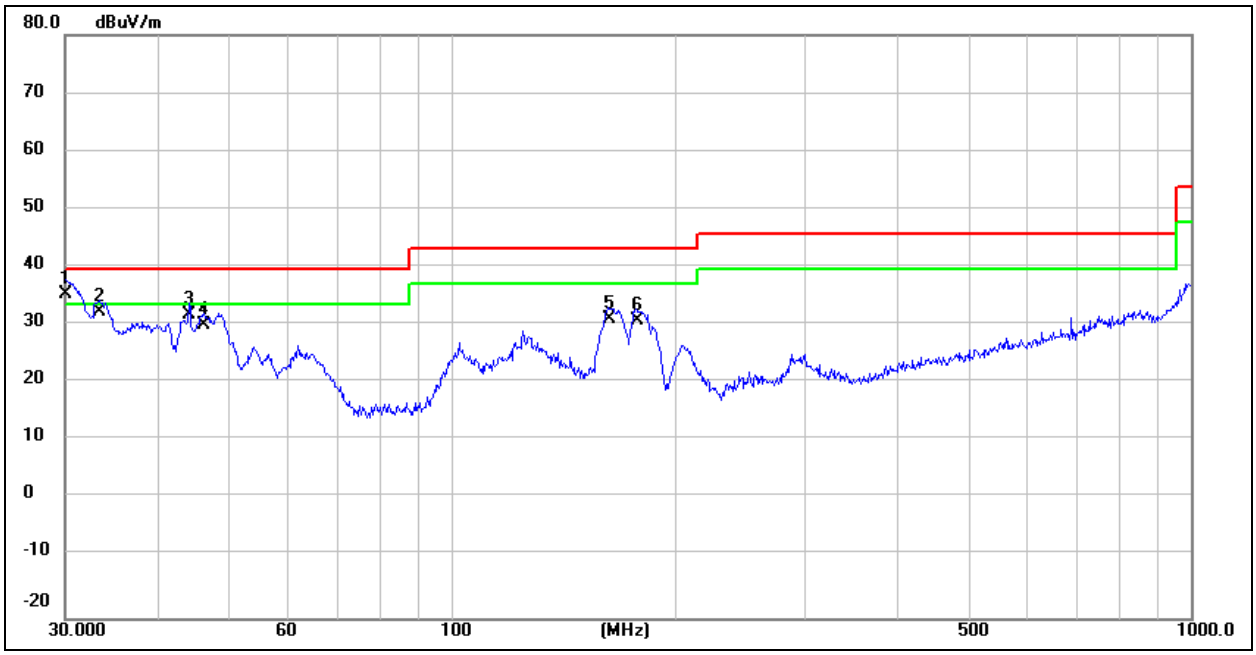


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	30.3173	21.06	3.03	24.09	40.00	-15.91	QP
2 *	45.2166	34.13	-4.06	30.07	40.00	-9.93	QP
3	116.5401	29.63	-3.52	26.11	43.50	-17.39	QP
4	135.0319	27.82	-2.93	24.89	43.50	-18.61	QP
5	156.4578	31.98	-4.12	27.86	43.50	-15.64	QP
6	199.2855	33.18	-7.06	26.12	43.50	-17.38	QP

Model No.:	XSG0505000US L1
Phase:	Horizontal
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Radiation
Operating Mode :	Mode 1

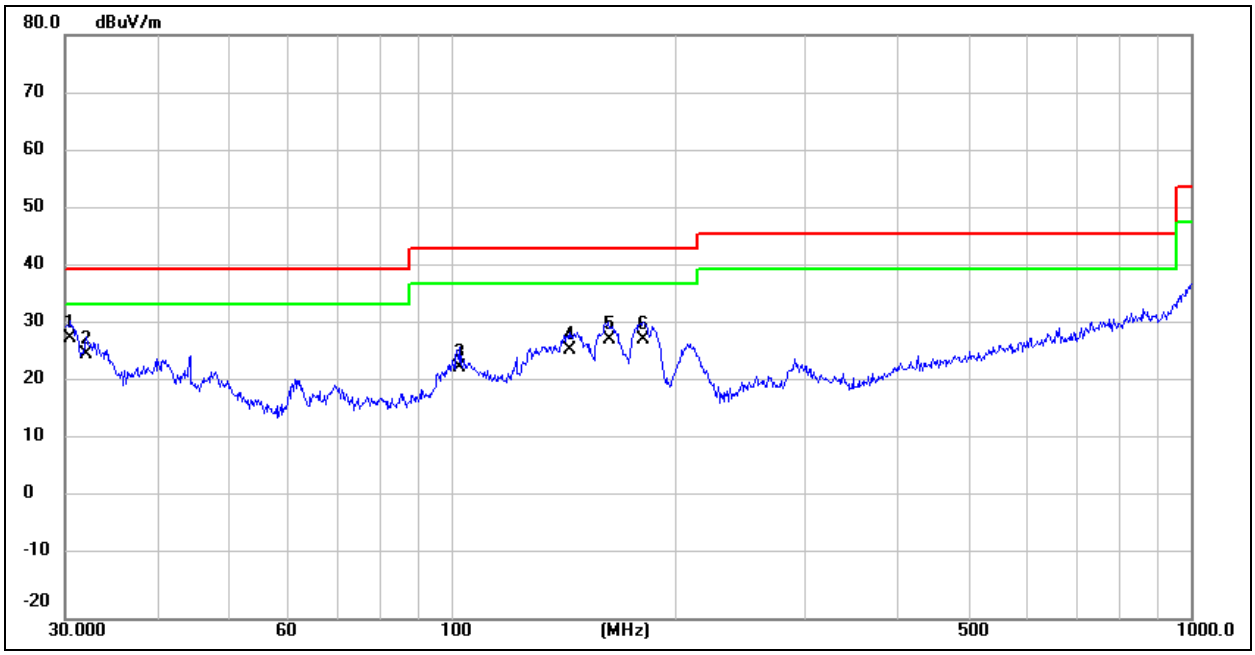
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	30.0000	20.43	3.38	23.81	40.00	-16.19	QP
2	39.8542	21.63	-2.03	19.60	40.00	-20.40	QP
3	102.0014	25.52	-4.66	20.86	43.50	-22.64	QP
4	121.1231	23.67	-3.18	20.49	43.50	-23.01	QP
5	142.8243	28.38	-2.82	25.56	43.50	-17.94	QP
6	202.1005	31.84	-7.02	24.82	43.50	-18.68	QP

Model No.:	XSG1203000 L1
Phase:	Vertical
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Radiation
Operating Mode :	Mode 1



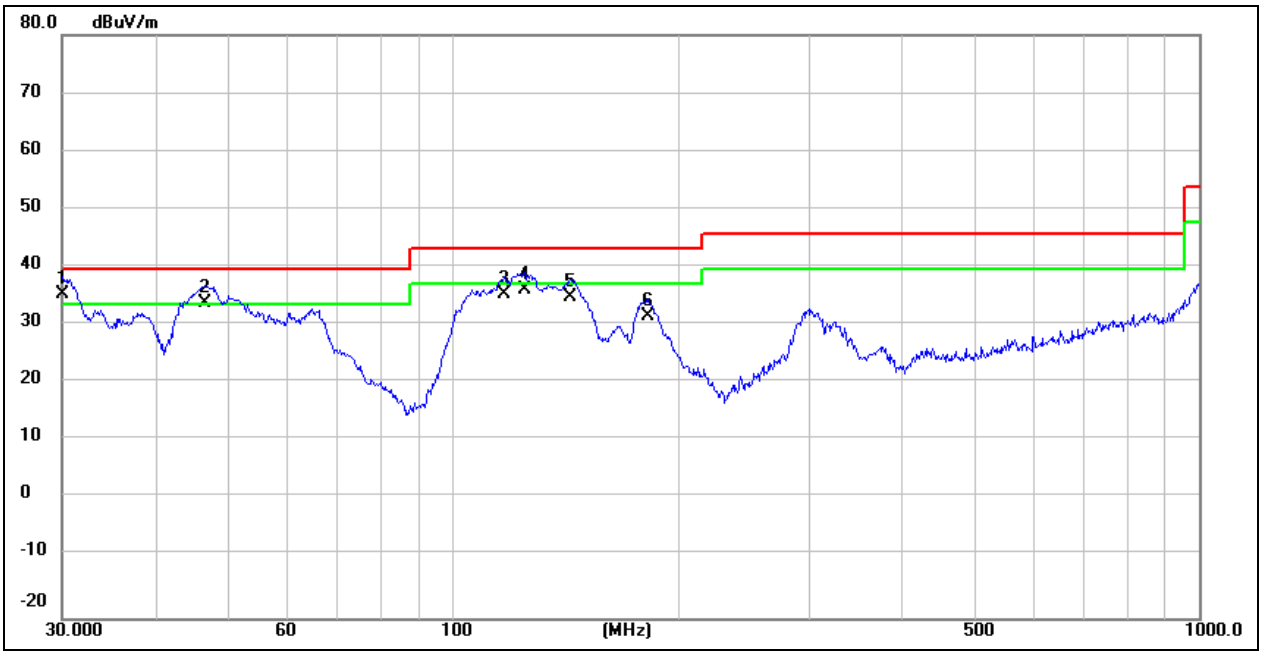
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	30.0000	32.30	3.38	35.68	40.00	-4.32	QP
2	33.4449	33.07	-0.38	32.69	40.00	-7.31	QP
3	44.1202	35.88	-3.63	32.25	40.00	-7.75	QP
4	46.3402	34.92	-4.48	30.44	40.00	-9.56	QP
5	163.1818	36.12	-4.72	31.40	43.50	-12.10	QP
6	177.5092	37.61	-6.54	31.07	43.50	-12.43	QP

Model No.:	XSG1203000 L1
Phase:	Horizontal
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Radiation
Operating Mode :	Mode 1



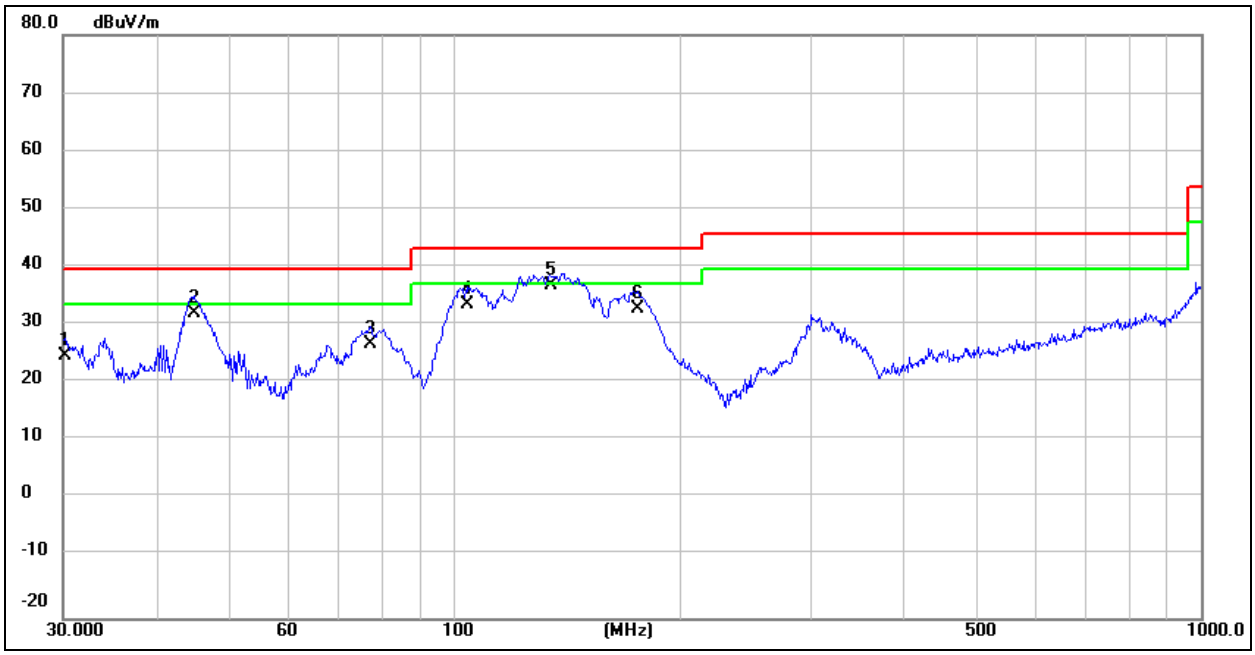
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	30.5306	25.22	2.81	28.03	40.00	-11.97	QP
2	32.0667	24.32	1.13	25.45	40.00	-14.55	QP
3	102.7192	27.82	-4.61	23.21	43.50	-20.29	QP
4	144.3348	29.13	-2.96	26.17	43.50	-17.33	QP
5	163.1818	32.53	-4.72	27.81	43.50	-15.69	QP
6	181.9202	34.82	-6.98	27.84	43.50	-15.66	QP

Model No.:	XSEC3001330 L1
Phase:	Vertical
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Radiation
Operating Mode :	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	30.1052	32.30	3.26	35.56	40.00	-4.44	QP
2	46.6662	38.67	-4.60	34.07	40.00	-5.93	QP
3	117.3602	39.20	-3.44	35.76	43.50	-7.74	QP
4	125.0065	39.59	-3.22	36.37	43.50	-7.13	QP
5	143.8294	38.15	-2.91	35.24	43.50	-8.26	QP
6	182.5592	38.77	-6.99	31.78	43.50	-11.72	QP

Model No.:	XSEC3001330 L1
Phase:	Horizontal
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Radiation
Operating Mode :	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	30.2111	22.00	3.14	25.14	40.00	-14.86	QP
2	44.9006	36.38	-3.94	32.44	40.00	-7.56	QP
3	77.3210	37.82	-10.79	27.03	40.00	-12.97	QP
4	104.5360	38.51	-4.50	34.01	43.50	-9.49	QP
5 *	134.5592	40.24	-2.96	37.28	43.50	-6.22	QP
6	176.2686	39.43	-6.33	33.10	43.50	-10.40	QP

Model No.:	XSG4800780US L1
Phase:	Vertical
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Radiation
Operating Mode :	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	30.4238	20.53	2.92	23.45	40.00	-16.55	QP
2	48.1626	30.54	-5.16	25.38	40.00	-14.62	QP
3 *	53.1313	33.63	-7.06	26.57	40.00	-13.43	QP
4	101.6443	27.56	-4.68	22.88	43.50	-20.62	QP
5	116.5401	24.85	-3.52	21.33	43.50	-22.17	QP
6	134.0882	26.99	-2.99	24.00	43.50	-19.50	QP

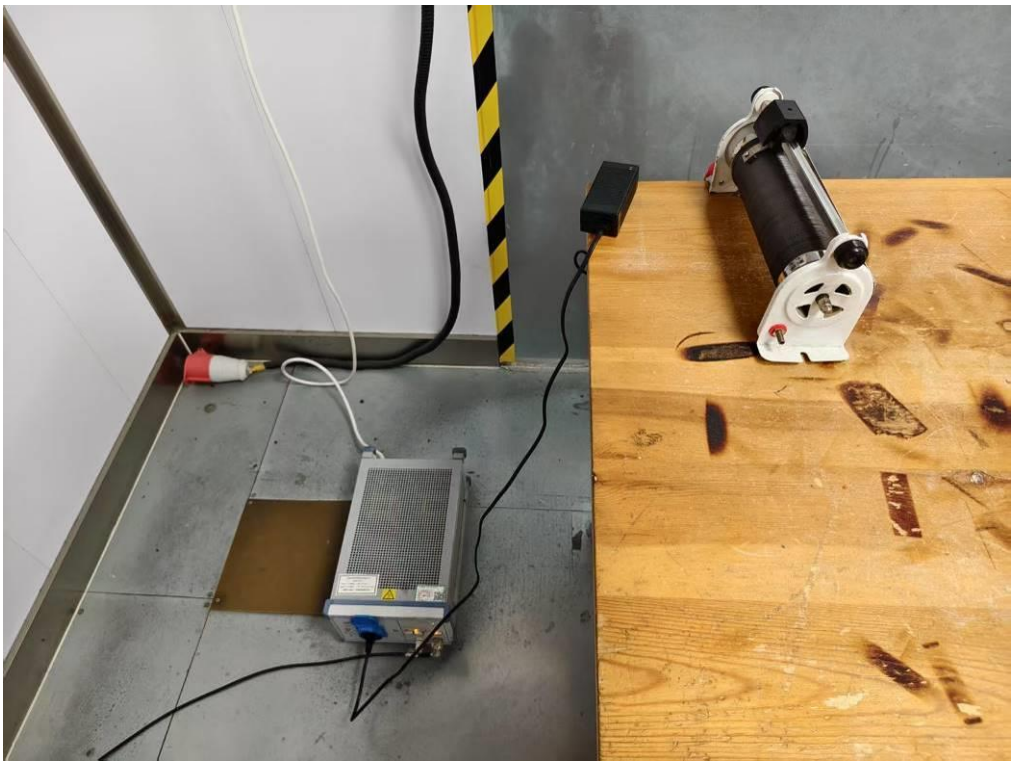
Model No.:	XSG4800780US L1
Phase:	Horizontal
Test Power :	AC 120V/60Hz
Standard:	FCC Part15 Class B Radiation
Operating Mode :	Mode 1

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	30.1054	19.99	3.26	23.25	40.00	-16.75	QP
2	47.4918	24.50	-4.91	19.59	40.00	-20.41	QP
3	61.5618	28.73	-9.90	18.83	40.00	-21.17	QP
4	101.6443	27.56	-4.68	22.88	43.50	-20.62	QP
5	116.5401	24.85	-3.52	21.33	43.50	-22.17	QP
6	134.0882	26.99	-2.99	24.00	43.50	-19.50	QP

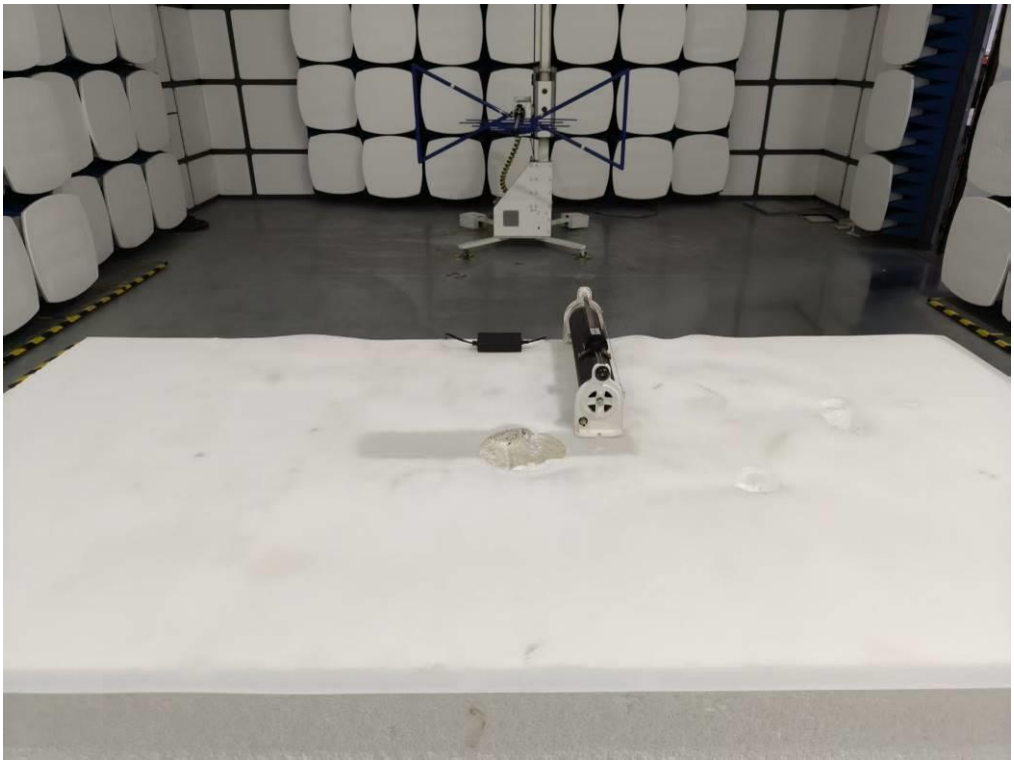
4. ATTACHMENT

4.1 EUT TEST PHOTO

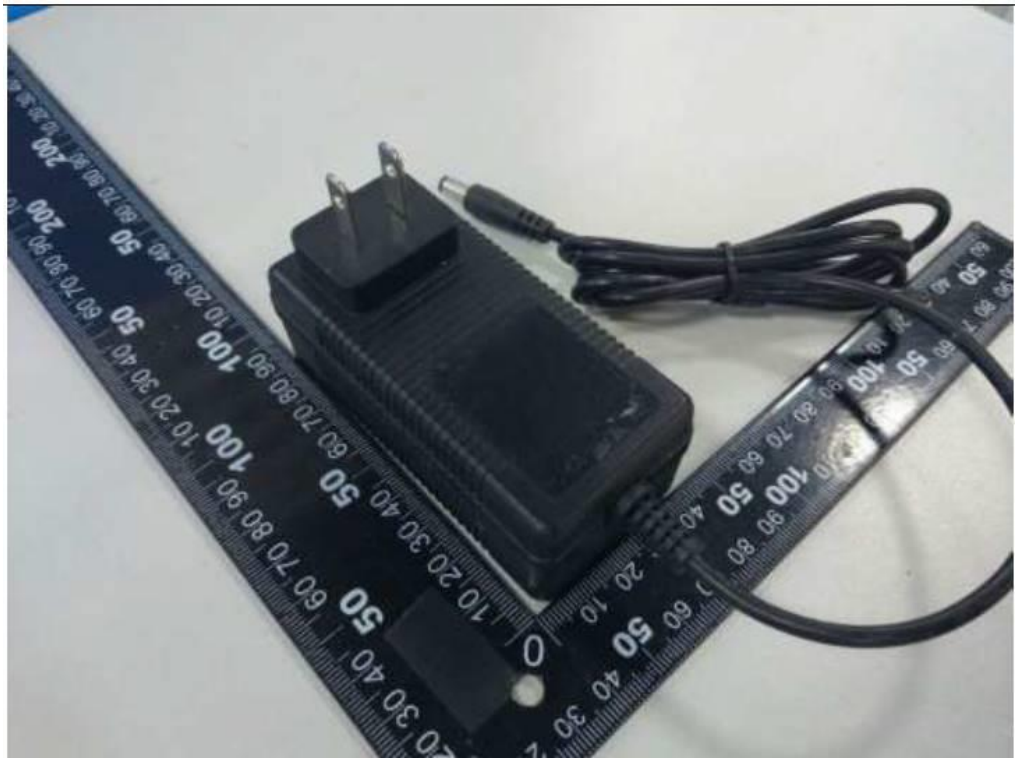
Conducted Emission Measurement Photo



Radiated Measurement Photo



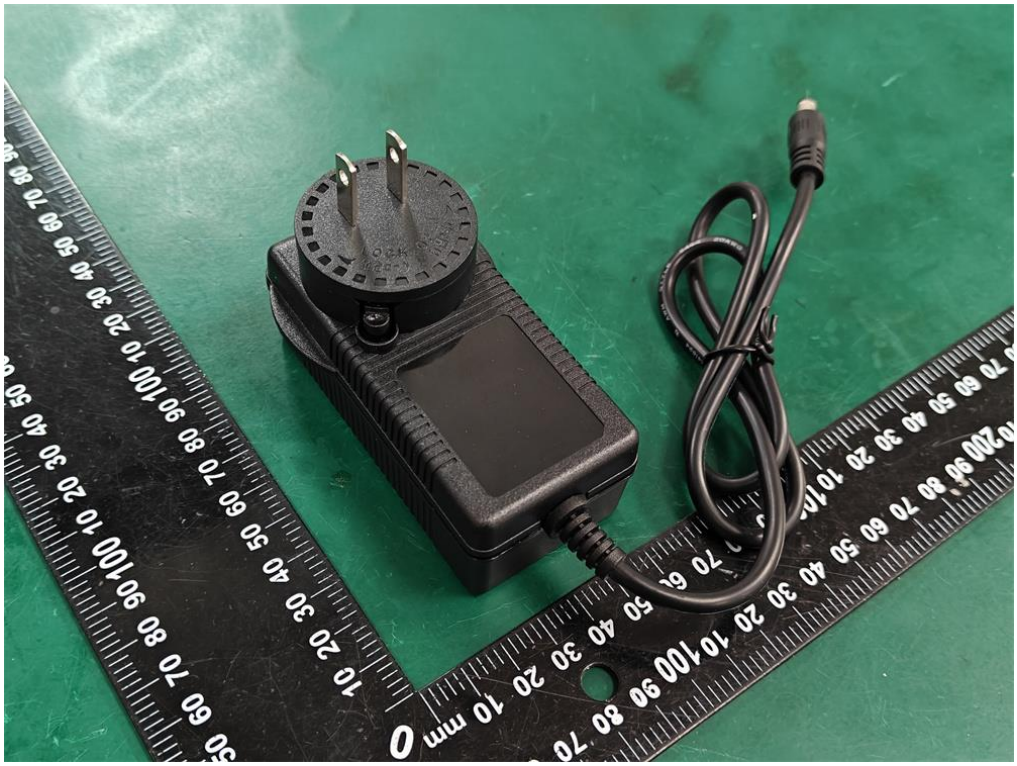
4.2 EUT PRODUCT PHOTO



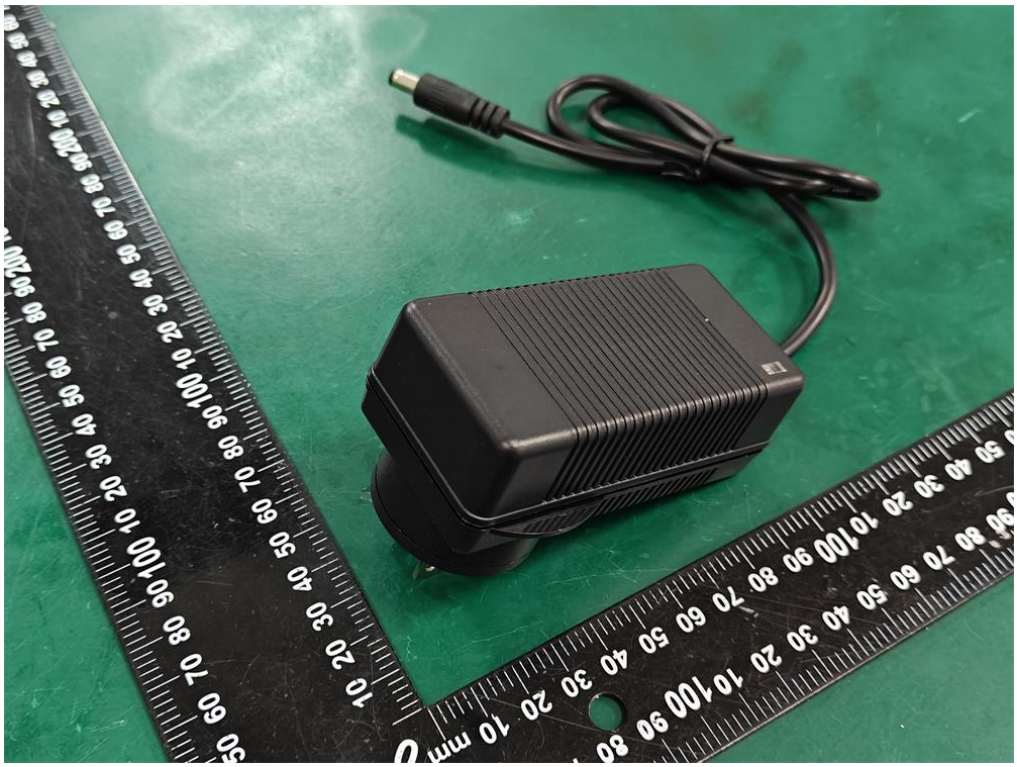
Overall view-1, XSGxxxyyyyUS L1, XSGxxxyyyyUS

Overall view-2, XSGxxxyyyyUS L1, XSGxxxyyyyUS

Overall view-3, Top enclosure with LED or without LED



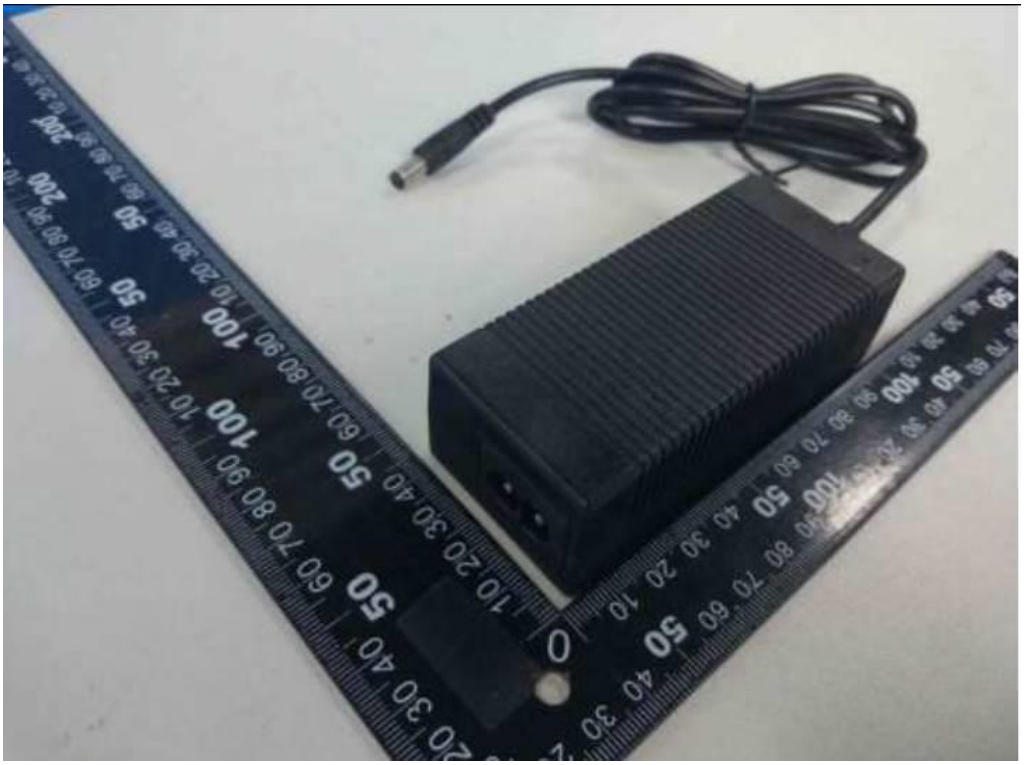
Overall view-4,XSGxxxyyyy L1,XSExxxyyyy L1, XSGxxxyyyy, XSExxxyyyy (US plug)



Overall view-5,XSGxxxyyyy L1,XSExxxyyyy L1, XSGxxxyyyy, XSExxxyyyy (US plug)

Overall view-6, XSGxxxyyyy L1,XSExxxyyyy L1, XSGxxxyyyy, XSExxxyyyy (US plug)

Overall view-7, Top enclosure with LED or without LED



Overall view-8,XSECxxxyyyy L1, XSECxxxyyyy

Overall view-9, XSECxxxyyyy L1, XSECxxxyyyy

Overall view-10, XSECxxxyyyy L1, XSECxxxyyyy, with or without LED

Overall view-11,XSECxxxyyyyUS L1,XSExxxyyyyUS L1, XSECxxxyyyyUS, XSExxxyyyyUS

Overall view-12, XSECxxxyyyyUS L1,XSExxxyyyyUS L1, XSECxxxyyyyUS, XSExxxyyyyUS

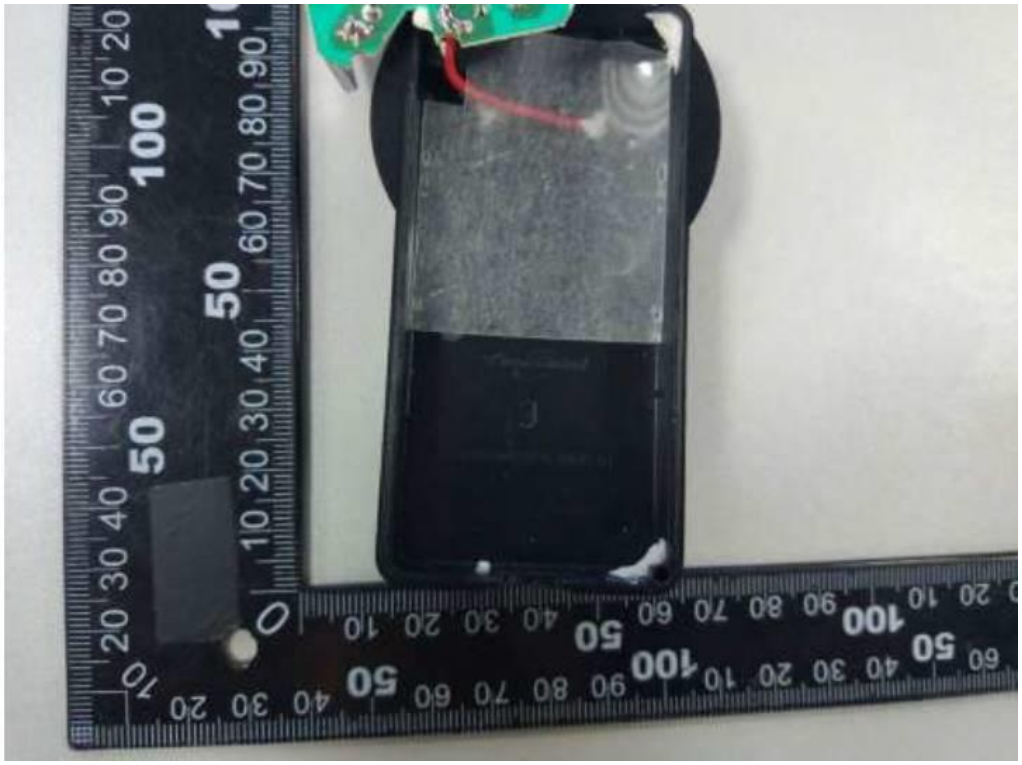
Overall view-13, XSECxxxyyyyUS L1,XSExxxyyyyUS L1, XSECxxxyyyyUS, XSExxxyyyyUS, with or without LED

Overall view-14, Output terminal for models with rated output current ≥ 3A

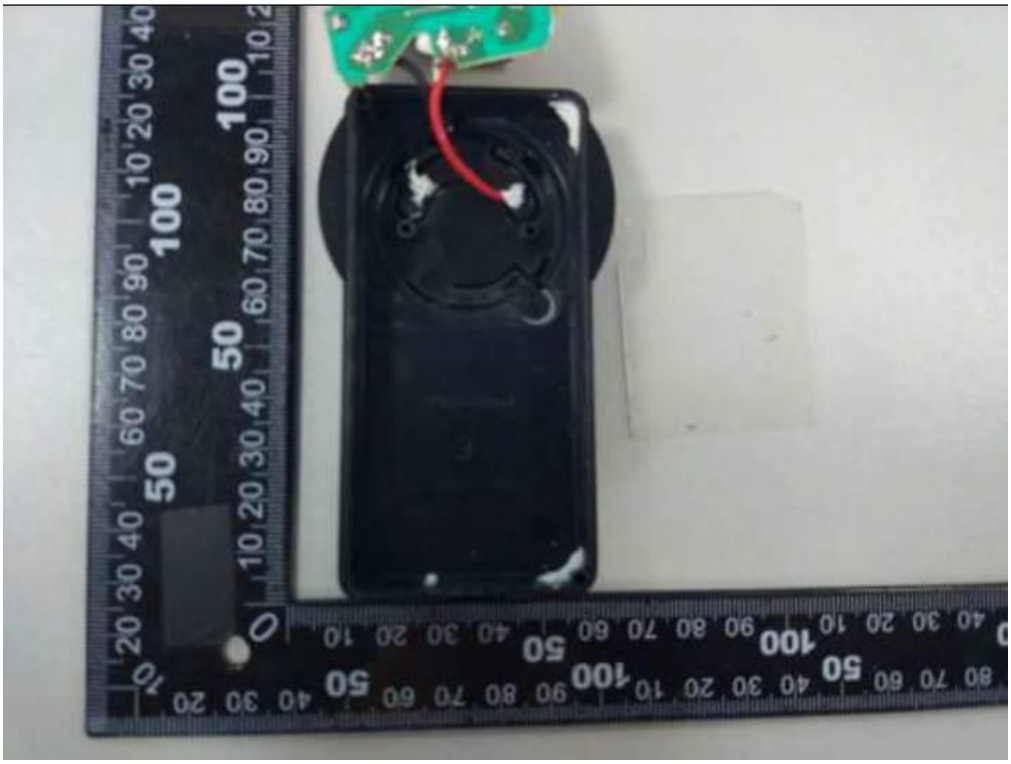
Internal view-1, direct plug-in type with fixed plug

Internal view-2, direct plug-in type with fixed plug

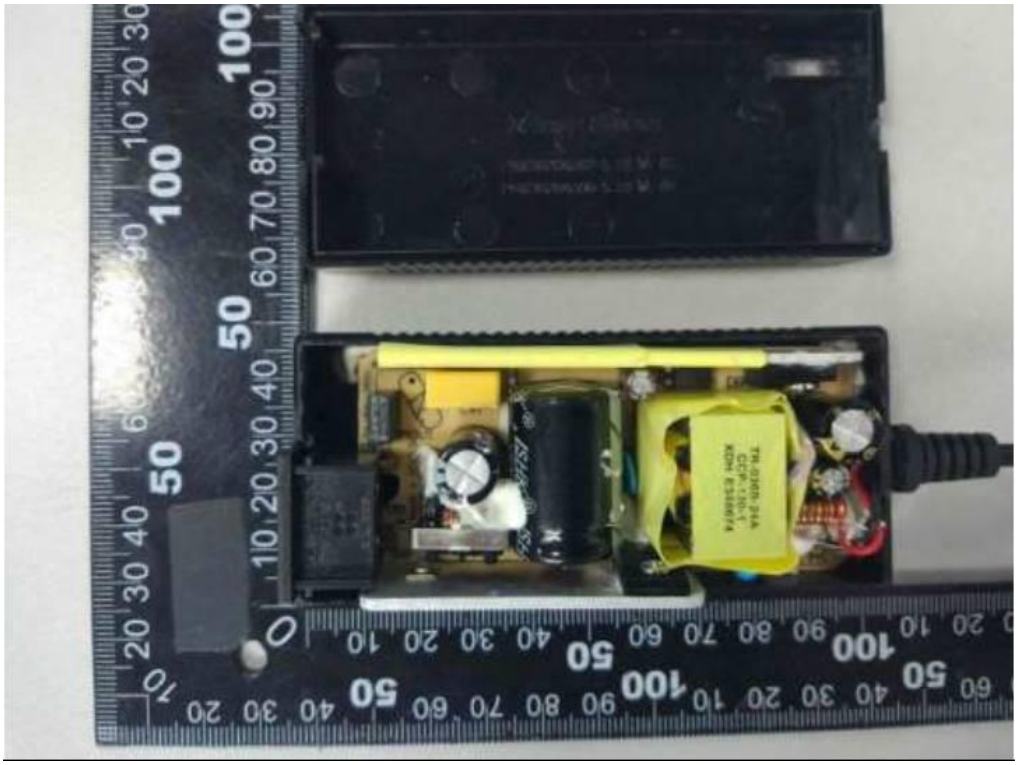
Internal view-3, direct plug-in type with fixed plug



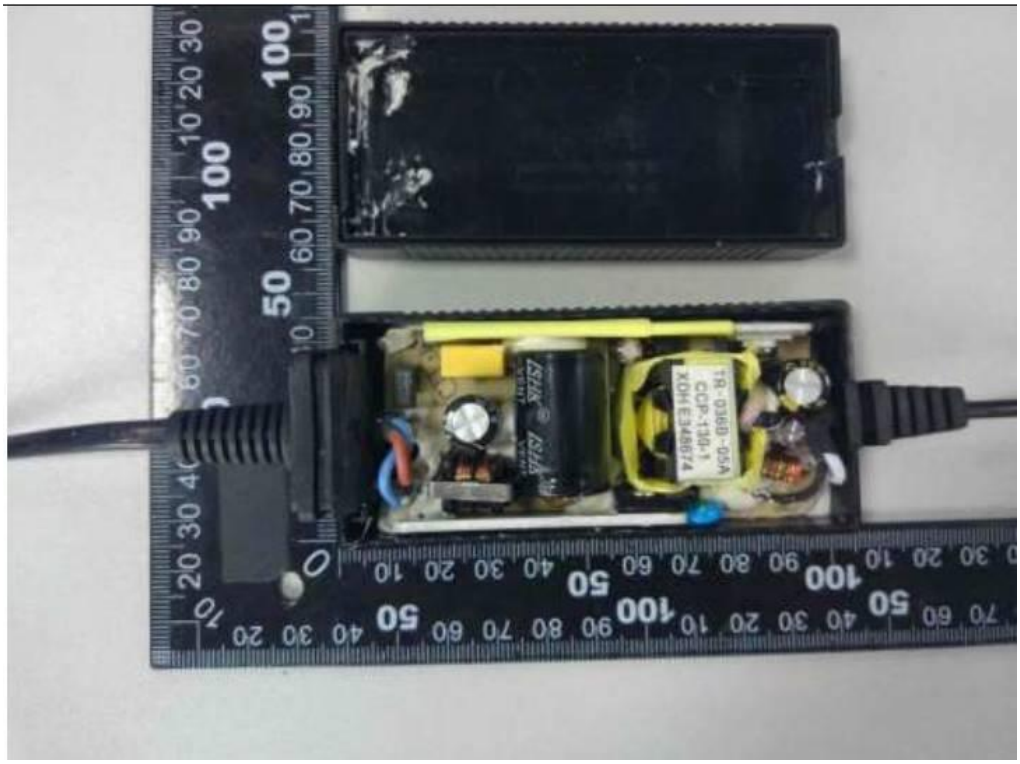
Internal view-4, direct plug-in type with detachable plug



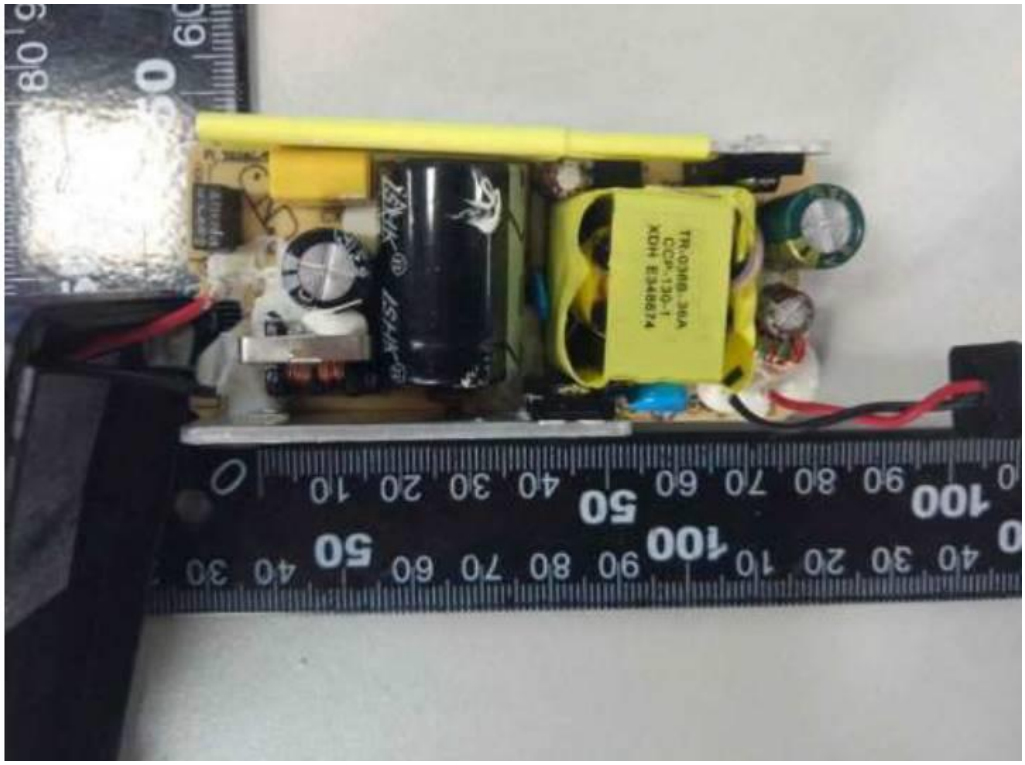
Internal view-5, direct plug-in type with detachable plug



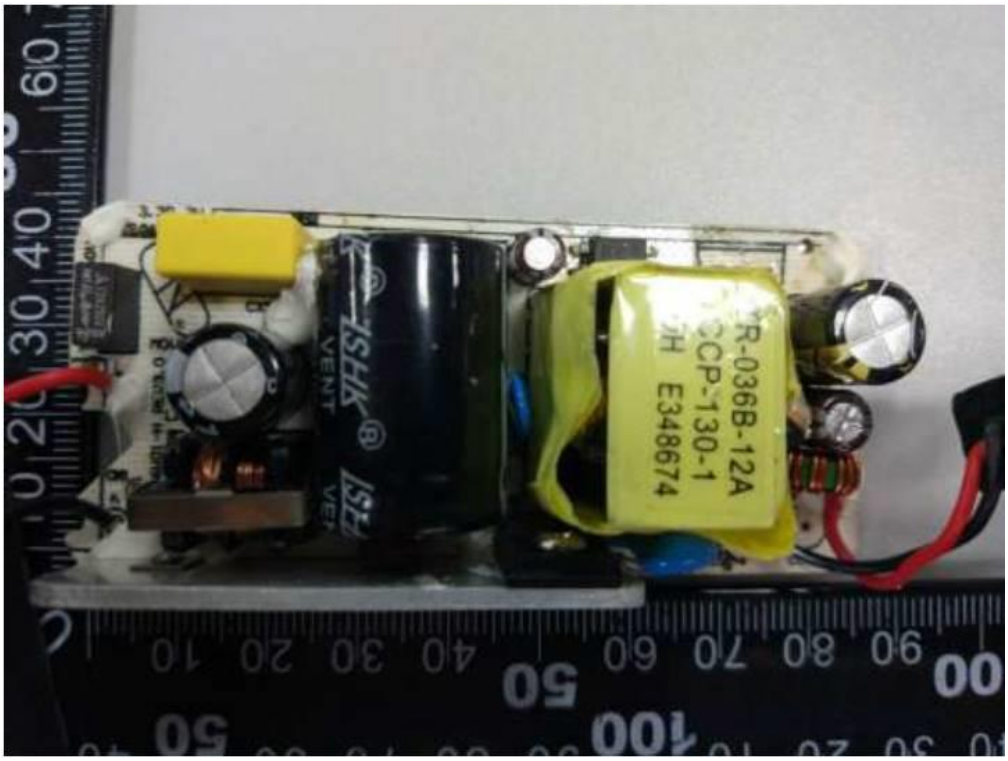
Internal view-6, desk-top type with AC Inlet



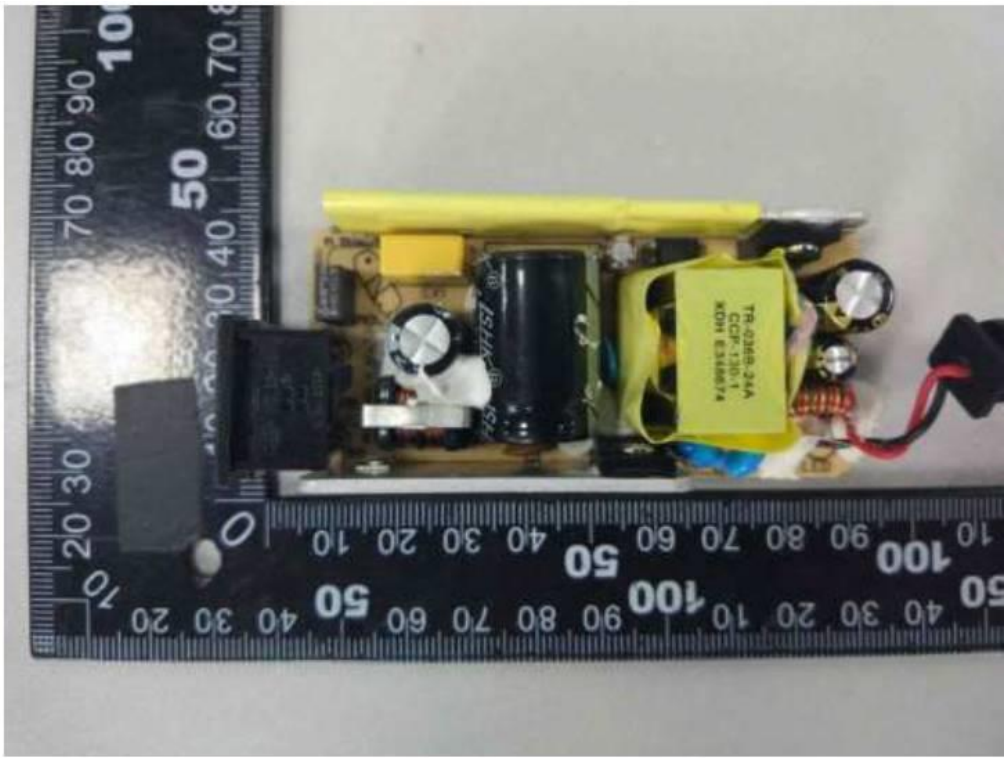
Internal view-7, desk-top type with non-detachable power cord



PCB components view-1

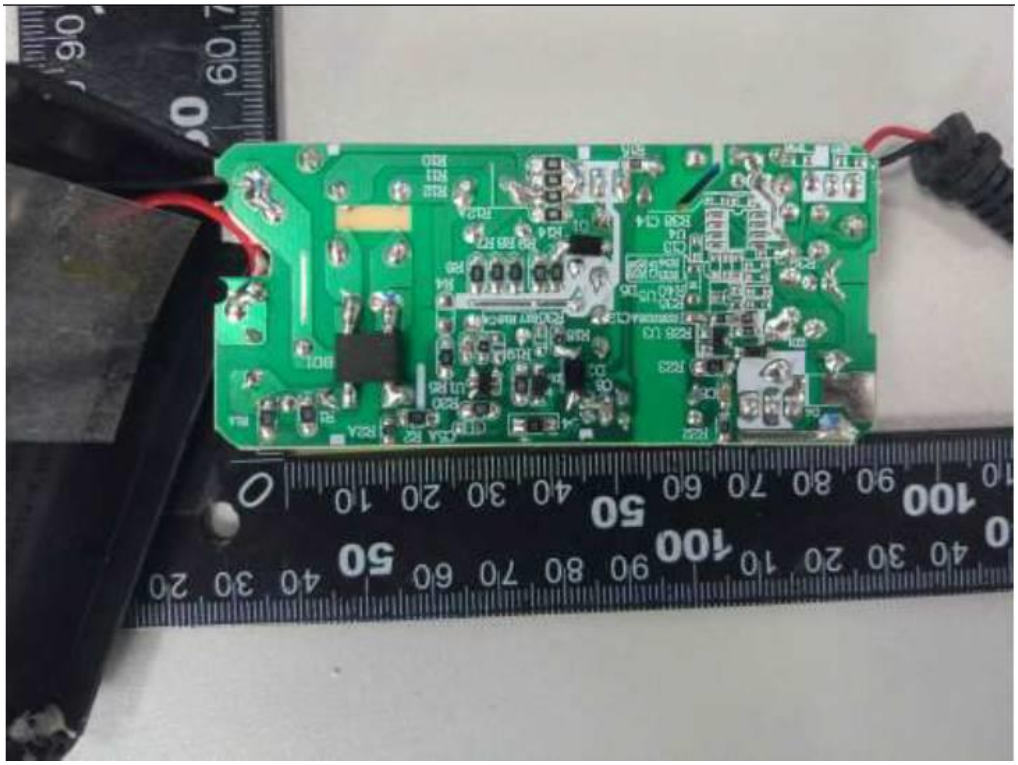


PCB components view-2, without SH2, D9

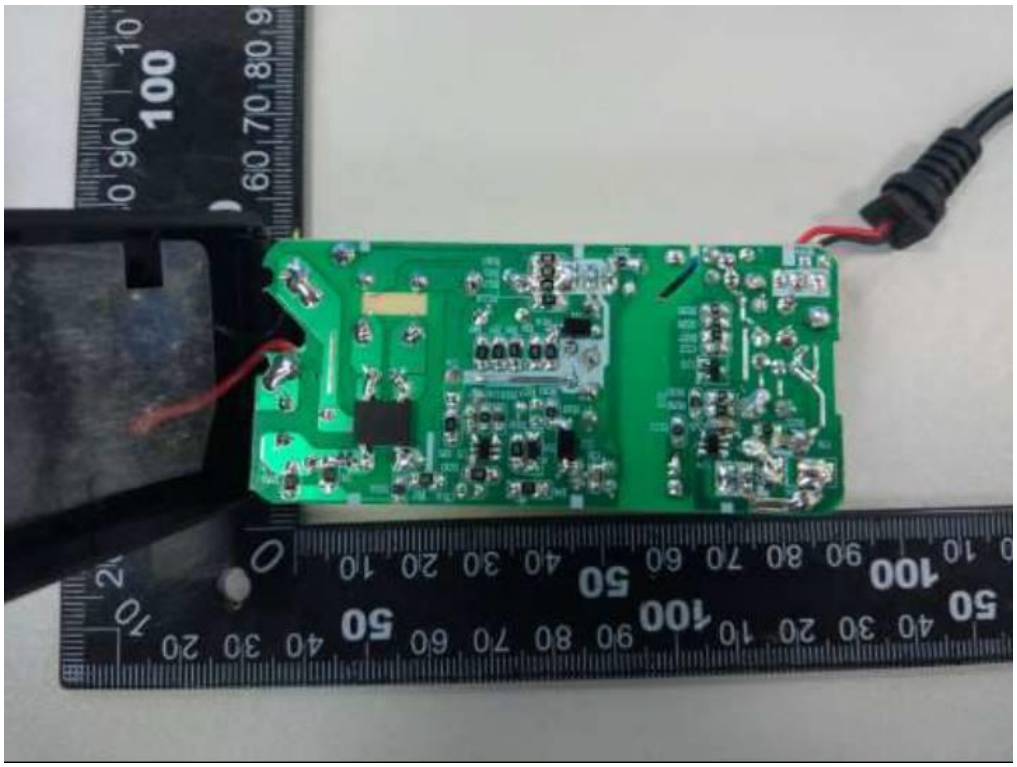


PCB components view-3

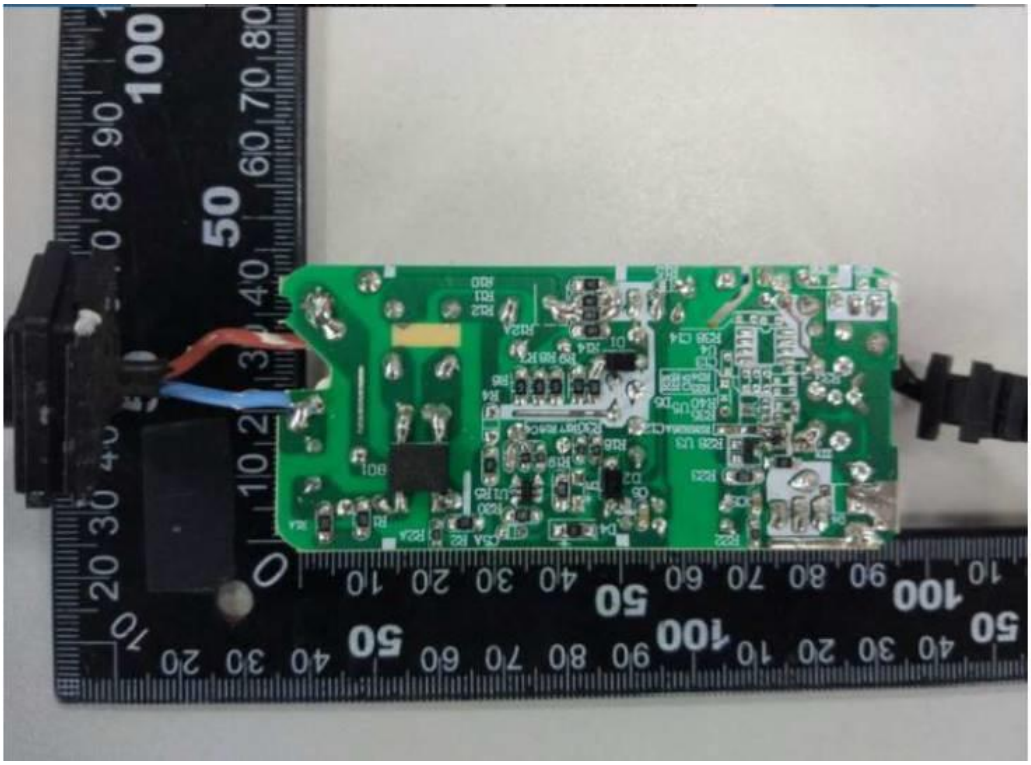
PCB components view-4



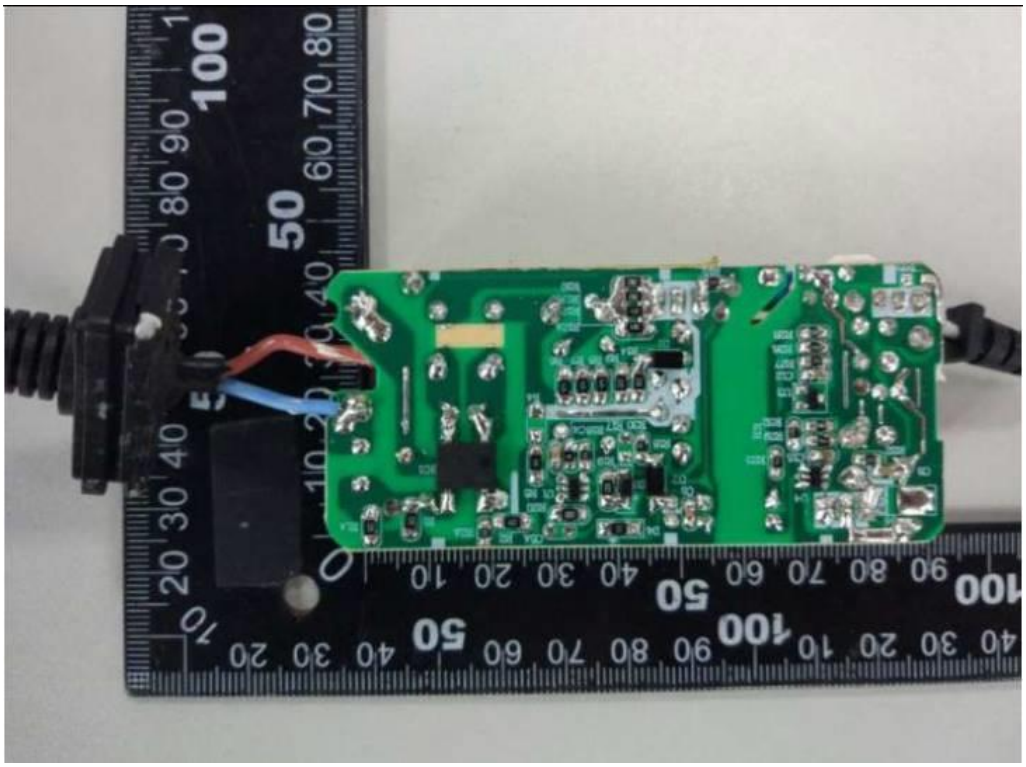
PCB traces view-1(direct plug-in type,PCB layout version B)



PCB traces view-2 (direct plug-in type, PCB layout version A)

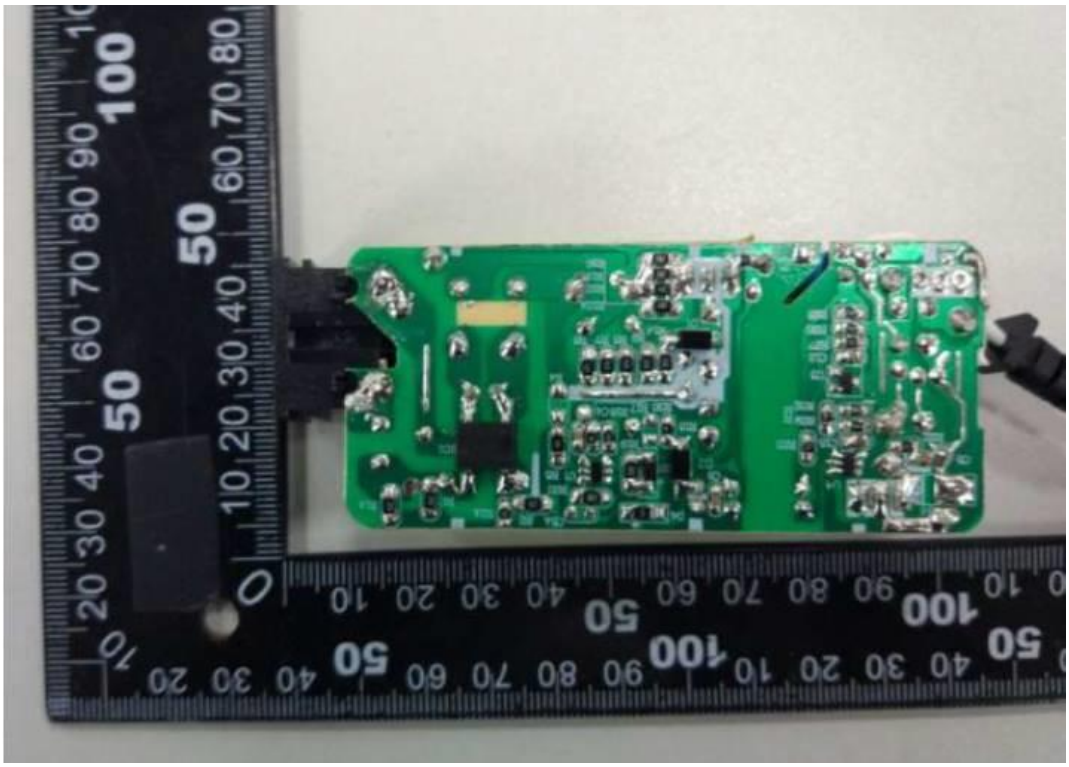


PCB trace view-3(desk-top type with non-detachable supply cord,PCB layout version B)

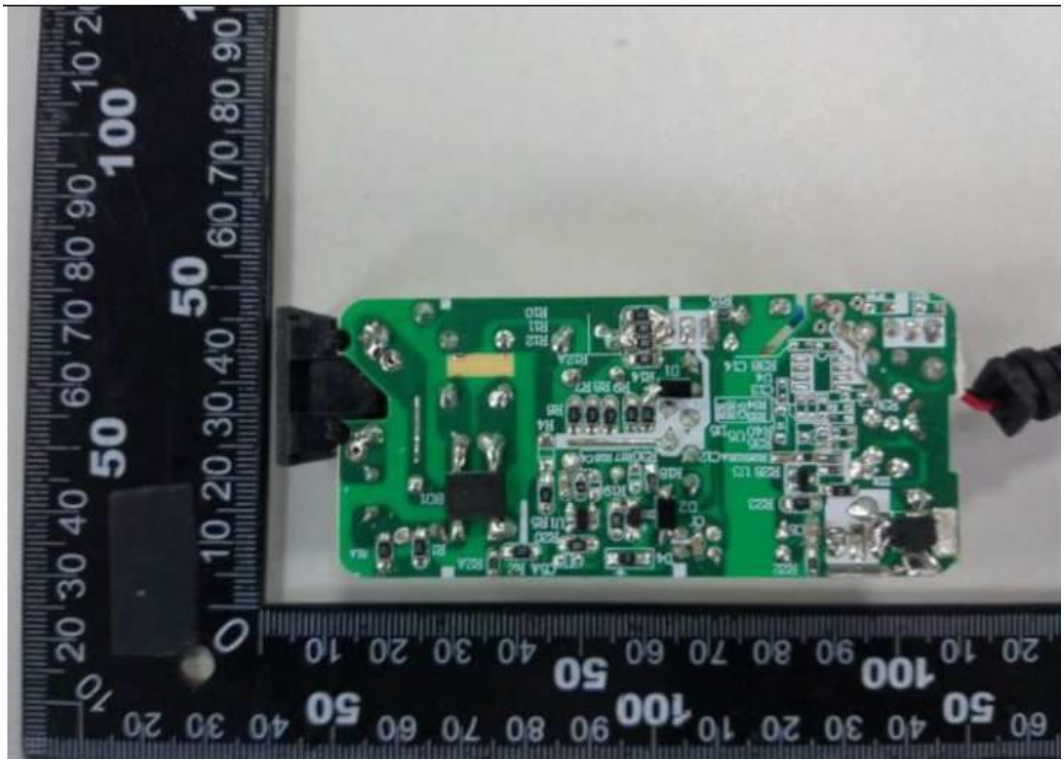


PCB trace view-4 (desk-top type with non-detachable supply cord, PCB layout version A)

PCB traces view-5 (desk-top type with AC inlet,PCB layout version B)



PCB traces view-6(desk-top type with AC inlet, PCB layout version A)



PCB traces view-7(desk-top type with AC inlet, PCB layout version B,with D6)

********** End of Report**********