Declaration of Conformity We, Manufacturer

ZIPPY TECHNOLOGY CORP. 10F,No.50,MIN MINQUAN RD. XINDIAN DIST, NEW TAIPEI CITY TAIWAN, R.O.C.

declare that the product (description of the apparatus, system, installation to which it refers)

SWITCHING POWER SUPPLY P1H-5507V

is in conformity with

(reference to the specification under which conformity is declared) in accordance with 2014/30/EU-EMC Directive

EN 55032 : 2012/AC:2013 Information technology equipment -Radio disturbance characteristics -Limits and methods of measurement EN 55024 : 2010 Information technology equipment -Immunity characteristics -Limits and methods of measurement EN 61000-4-2 : 2009 Criteria B Electrostatic discharge requirements "ESD" EN 61000-4-3 : 2006+A1:2008+A2:2010 Criteria A Radiated, radio frequency electromagnetic field EN 61000-4-4 : 2012 Criteria B Electrical fast transient requirements "EFT"

EN 61000-4-5 : 2014 Criteria B Surge Immunity requirements EN 61000-4-6 : 2014 Criteria A Conducted Immunity EN 61000-4-8 : 2010 Criteria A Power Frequency Magnetic Field Immunity EN 61000-4-11 : 2004 Dip Criteria B Interruptions Criteria C Voltage Dip, interruptions Immunity requirements EN 61000-3-2 : 2014 Harmonic current requirements EN 61000-3-3 : 2013 Voltage fluctuations and flicker requirements

Checked by : Karen Ma / Engineer) , Date : MAR,09,2017

Approved by : Jeff Huang / Director) , Date : MAR,09,2017

APPLICATION FOR CERTIFICATION ON Behalf Of ZIPPY TECHNOLOGY CORP. SWITCHING POWER SUPPLY

Model# : **P1H-5507V**

PREPARED FOR :

ZIPPY TECHNOLOGY CORP. 10F., No.50, MINQUAN RD., XINDIAN DIST., NEW TAIPEI CITY TAIWAN, R.O.C

REPORT BY :

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1. Test Report Certification

Applicant	:	ZIPPY TECHNOLOGY CORP.
Manufacturer	:	ZIPPY TECHNOLOGY CORP.
EUT Description	:	Switching Power Supply
(A) Model No.	:	P1H-5507V
(B) Serial No.	:	N/A

(C) Power Supply : 115Vac/60Hz,230Vac/50Hz

MEASUREMENT PROCEDURE USED :

EN 55024 RULES EN 55032 RULES

THE DEVICE DESCRIBED ABOVE WAS TESTED BY ZIPPY SHIN JIUH CORP. TO DETERMINE THE SEVERITY LEVELS THE DEVICE CAN ENDURE AND ITS PERFORMANCE CRITERION.

THE MEASUREMENT RESULTS ARE CONTAINED IN THIS TEST REPORT AND ZIPPY SHIN JIUH CORP. IS ASSUMED FULL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THESE MEASUREMENT. ALSO, THIS REPORT SHOWS THAT THE EUT TO BE TECHNICALLY COMPLIANT WITH THE EN STANDARD.

2. General Information

2.1 Production Description

Description	:	Switching Power Supply
Model Number	:	P1H-5507V
Applicant	:	ZIPPY TECHNOLOGY CORP.
Address	:	10F., No.50, MINQUAN RD.,XINDIAN DIST., NEW TAIPEI CITY TAIWAN, R.O.C
Data Cable	:	N/A
PowerCord	:	Non-Shielded, detachable, 1.5m

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2.2 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

2.2.1 Resistor Load

Model Number	:	ELECTRONIC LOAD
Serial Number	:	N/A
Manufacturer	:	ZIPPY
Power	:	500W

2.3 Test Methodology

EMI Test:

Both conducted and radiated testing were performed according to the procedures in EN 55032 Radiated testing was performed at an antenna to EUT distance of 10 meters.

EMS Test: Performed according to procedures in EN 61000 series regulations.

2.4 Test Facility

ZIPPY TECHNOLOGY CORP. 10F., No.50, MINQUAN RD., XINDIAN DIST., NEW TAIPEI CITY TAIWAN, R.O.C

3. Electronic-Magnetic Interference Test

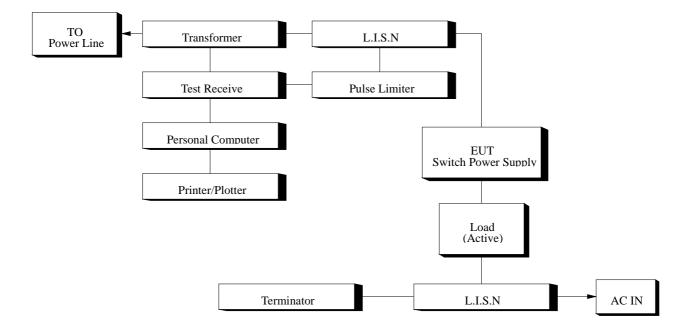
3.1 Conducted Power Line Test

3.1.1 TEST Equipment's

The following test equipment's are used during the conducted power line tests:

Item	Instrument Manufacture Type No		Type No:	Last Calibration	
1	TEST RECEIVER	ROHDE & SCHWARZ	ESL	Mar.,2017	
2	LICN	ROHDE & SCHWARZ	ENV4200	Dec.,2016	
2	LISN	ROHDE & SCHWARZ ENV216		Apr.,2016	
3	SHIELDED ROOM 4.0M*3.0M*3M N/A				

3.1.2 Block Diagram of Test Setup



Maximum RF Line Voltage dB(uV)				
Frequency	Cla	ass B		
MHz	QUASI-PEAK	AVERAGE		
0.15 - 0.50	66-56	56-46		
0.50 - 5.0	56	46		
5.0 - 30	60	50		

3.1.3 Conducted Powerline Emission Limit

Remarks : In the Above Table, the tighter limit applies at the band edges.

3.1.4 EUT Configuration on Measurement

The equipment's which is listed 3.2 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.1.5 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below :

3.1.5.1 Setup the EUT and simulators as shown on 3.2.

3.1.5.2 Turn on the power of all equipment's.

3.1.6 Conducted Emission Data

The measurement range of conducted emission which is from 0.15 MHz to 30 MHz was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

Conducted Emission Data

EUT	: <u>SWITCH POWER SUPPLY</u>	TEMPERATURE	: <u>26°C</u>
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

Frequency	Reading L	Limites	
MHz	Line 1	Line 2	DBuV
25.25	37.39	41.01	60.00
25.35	37.02	40.94	60.00
25.45	36.88	40.70	60.00

Remark : All readings are Quasi-Peak values.

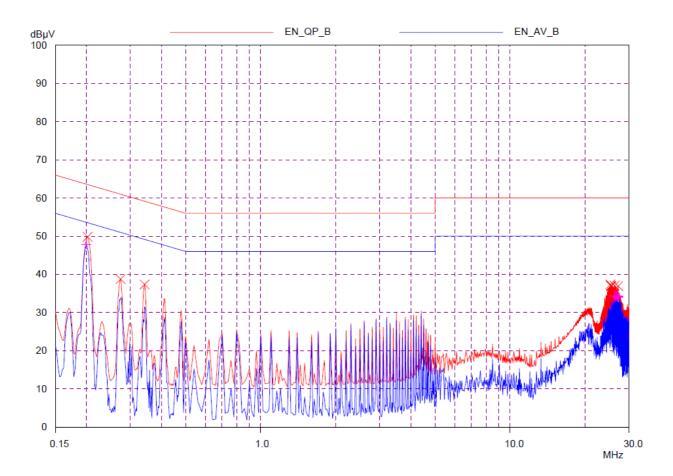
REPORT NO.: 17030917

ZIPPY EMC LAB

conduction test

EUT:	P1H-5507V SPS
Manuf:	ZIPPY TECH COLTD
Op Cond:	FULL LOAD
Operator:	
Test Spec:	EN 55032 Class B
Comment:	Load Condition
	L220V

Scan Settings (3 Ranges) Frequencies Receiver Settings Γ Start IF BW OpRge Stop Step Detector M-Time Atten Preamp 150kHz 10kHz QP+AV 60dB 500kHz 2kHz OFF 1msec Auto 500kHz 5MHz 20kHz 10kHz QP+AV OFF 60dB 1msec Auto 5MHz 30MHz 50kHz 10kHz QP+AV 1msec Auto OFF 60dB Stop Transducer No. Start Name 9kHz 30MHz CEB 1 X QP / + AV Prescan Measurement: Detectors: Meas Time: see scan settings Peaks: 8 Acc Margin: 25 dB



REPORT NO.: 17030917

ZIPPY EMC LAB

conduction test

EUT:	P1H-5507V SPS
Manuf:	ZIPPY TECH COLTD
Op Cond:	FULL LOAD
Operator:	
Test Spec:	EN 55032 Class B
Comment:	Load Condition
	L220V

Scan Settings	(3 Ra Frequer				Receiver Se	ettinas —		
Start	Stop	Ste	p IFBW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500kHz	z 2k⊦	lz 10kHz	QP+AV	1msec	Auto	OFF	60dB
500kHz	5MHz	20k	Hz 10kHz	QP+AV	1msec	Auto	OFF	60dB
5MHz	30MHz	50k	Hz 10kHz	QP+AV	1msec	Auto	OFF	60dB
Transducer	No.	Start	Stop	Name				
	1	9kHz	30MHz	CEB				
Prescan Measu	urement:	Detectors:	X QP / + AV					
		Meas Time:	see scan setting	s				
		Peaks:	8					
		Acc Margin:	25 dB					
Peak Search R	esults							
Frequency	QP Level	QP Limit	QP Delta	Phase	PE			
MHz	dBµV	dBµV	dB	-	-			
0.202	49.82	63.53	13.71	N	gnd			
0.274	38.76	61.00	22.24	N	gnd			
0.342	37.33	59.15	21.82	N	gnd			
25.25	37.39	60.00	22.61	N	gnd			
25.35	37.02	60.00	22.98	N	gnd			
25.45	36.88	60.00	23.12	N	gnd			
26.25	37.01	60.00	22.99	N	gnd			
27.15	36.90	60.00	23.10	Ν	gnd			
_				D'				
Frequency	AV Level	AV Limit	AV Delta	Phase	PE			
MHz	dBµV	dBµV	dB	-	-			
0.2	47.83	53.61	5.78	Ν	gnd			
26.25	34.41	50.00	15.59	N	gnd			
26.55	34.40	50.00	15.60	N	gnd			
26.85	34.33	50.00	15.67	N	gnd			
26.95	33.96	50.00	16.04	N	gnd			
27.05	34.32	50.00	15.68	N	gnd			
27.15	34.19	50.00	15.81	N	gnd			

* limit exceeded

27.25

Indicated Phase/PE shows Configuration of max. Emission

33.95

50.00

16.05

Ν

gnd

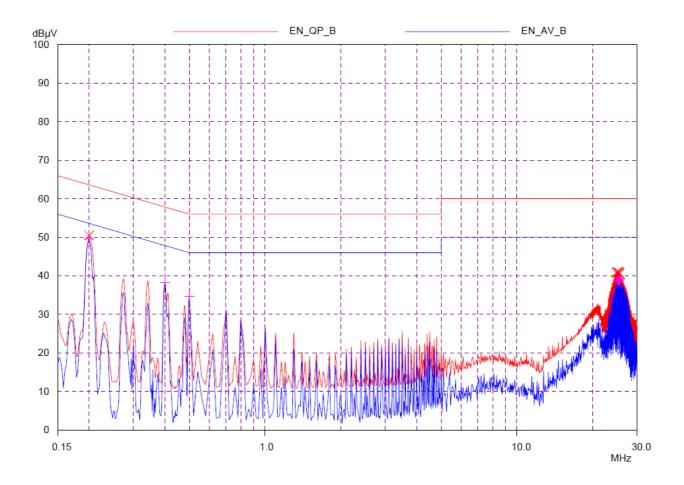
REPORT NO.: 17030917

ZIPPY EMC LAB

conduction test

EUT:	P1H-5507V SPS
Manuf:	ZIPPY TECH COLTD
Op Cond:	FULL LOAD
Operator:	
Test Spec:	EN 55032 Class B
Comment:	Load Condition
	N220V

Scan Settings	•	Ranges) encies ———				 Receiver Se 	ettings		
Start 150kHz 500kHz 5MHz	Stop 500kl 5MHz 30MH	Hz z	Step 2kHz 20kHz 50kHz	IF BW 10kHz 10kHz 10kHz	Detector QP+AV QP+AV QP+AV	M-Time 1msec 1msec 1msec	Atten Auto Auto Auto	Preamp OFF OFF OFF	OpRge 60dB 60dB 60dB
Transducer	No. 1	Start 9kHz	Stop	30MHz	Name CEB				
Prescan Meas	urement:	Detectors: Meas Time: Peaks: Acc Margin:	see 8	IP / + AV scan settings dB					



REPORT NO.: 17030917

ZIPPY EMC LAB

conduction test

EUT:	P1H-5507V SPS
Manuf:	ZIPPY TECH COLTD
Op Cond:	FULL LOAD
Operator:	
Test Spec:	EN 55032 Class B
Comment:	Load Condition
	N220V

Scan Settings	(3 Ra Frequer				 Receiver Se 	ettinas —		
Start	Stop	Ste	p IFBW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500kHz			QP+AV	1msec	Auto	OFF .	60dB
500kHz	5MHz	20	KHz 10kHz	QP+AV	1msec	Auto	OFF	60dB
5MHz	30MHz	50	kHz 10kHz	QP+AV	1msec	Auto	OFF	60dB
Transducer	No.	Start	Stop	Name				
	1	9kHz	30MHz	CEB				
Prescan Measu	urement:	Detectors: Meas Time: Peaks: Acc Margin:	X QP / + AV see scan setting 8 25 dB	gs				
Peak Search R	esults							
Frequency	QP Level	QP Limit	QP Delta	Phase	PE			
MHz	dBµV	dBµV	dB	-	-			
0.2	50.46	63.61	13.15	Ν	gnd			
24.75	40.82	60.00	19.18	N	gnd			
24.95	40.95	60.00	19.05	N	gnd			
25.15	40.79	60.00	19.21	N	gnd			
25.25	41.01	60.00	18.99	N	gnd			
25.35	40.94	60.00	19.06	N	gnd			
25.45	40.70	60.00	19.30	N	gnd			
25.55	40.68	60.00	19.32	Ν	gnd			
Frequency	AV Level	AV Limit	AV Delta	Phase	PE			
MHz	dBµV	dBµV	dB	-	-			
0.2	49.65	53.61	3.96	Ν	gnd			
0.4	38.30	47.85	9.55	N	gnd			
0.5	34.71	46.00	11.29	N	gnd			
25.15	38.82	50.00	11.18	N	gnd			
25.35	38.76	50.00	11.24	N	gnd			
25.45	38.47	50.00	11.53	N	gnd			
25.55	39.26	50.00	10.74	N	gnd			
25.65	39.19	50.00	10.81	N	gnd			

* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission

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3.2 Radiation Emission Test

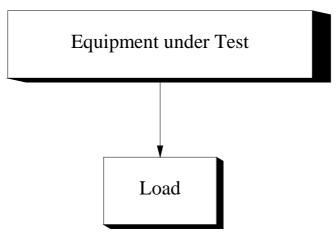
3.2.1 Test Equipment

The following test equipment's are used during the radiated emission test :

Instrument	Manufacture	Type No:	Last Calibration
Spectrum Analyzer	H.P	8594A	May.,2016
Test Receiver	IFR System	A-7550	Jun.,2016
Preamplifier	H.P	8447D	May.,2016
Biconical Ant.	Emco	3110	Jun.,2016
Log-Periodic Ant.	Emco	3146	Jun.,2016
Dipole Antenna	Emco	3121C	May.,2016

3.2.2 Test Setup

3.2.2.1 Block Diagram of Connection between EUT and simulators



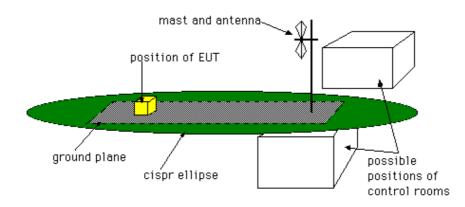
EUT: SWITCHING POWER SUPPLY

3.2.2.2 Open Field Test Site - description

The open field test site (OFTS) is designed to provide an environment in which repeatable tests of radiated emissions can be carried out.

It consists of a flat elliptical area as shown in the diagram below.

The equipment under test and the antenna are placed at the foci of the ellipse.



The antenna height should be remotely adjustable from 1m to 4m. Measuring instrumentation should be outside the ellipse at the position shown or in a room under the ground plane. The whole or part of the site may be enclosed in an RF transparent building. For precompliance testing a 3m test site with a fixed height antenna (at 1.5-2m height) and no metallic ground plane may be used. This may be a clear area on a car park or a grass area but should be away from large metallic structures.

3.2.3 Radiated Emission Limit

Frequency	Distance	Field Strength
MHz	Meter	DB(uV/M)
30-230	10	30
230-1000	10	37

Class B Limits

Remarks :

1. The tighter limit shall apply at the edge between two frequency bands.

2. Distance refers to the distance in meters between the measuring instrumentantenna and the closed point of any part of the device or system.

3.2.4 EUT Configuration

The equipment's which is listed 4.2.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.2.5 Operation Condition of EUT

Same as Conducted Power Line Test which is listed in 3.1.5.

3.2.6 Radiated Emission Data

The measurement range of radiated emission which is from 30 MHz to 1000 MHz was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

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Radiated Emission Data

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: <u>26°C</u>
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 57%

Frequency	Emission Level	Limits	
requercy	Horizontal	Linits	Remark
(MHz)	dBuV/m	dBuV/m	
33.880	15.90	30.00	
113.42	15.28	30.00	
134.76	14.45	30.00	
150.28	13.51	30.00	
258.92	13.89	37.00	
582.90	22.63	37.00	

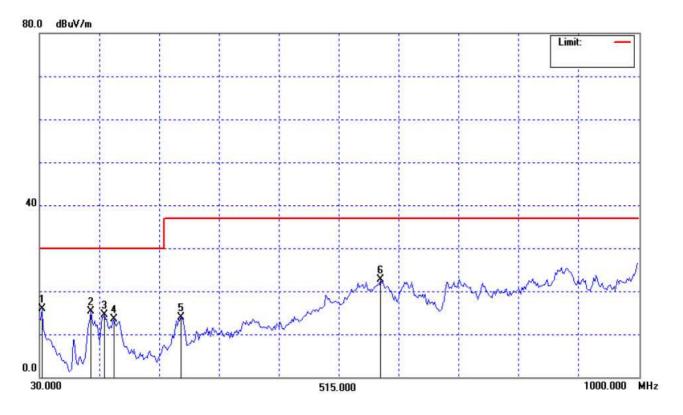
Radiated Emission Data

EUT	: <u>SWITCH POWER SUPPLY</u>	TEMPERATURE	: <u>26°</u> ℃
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 57%

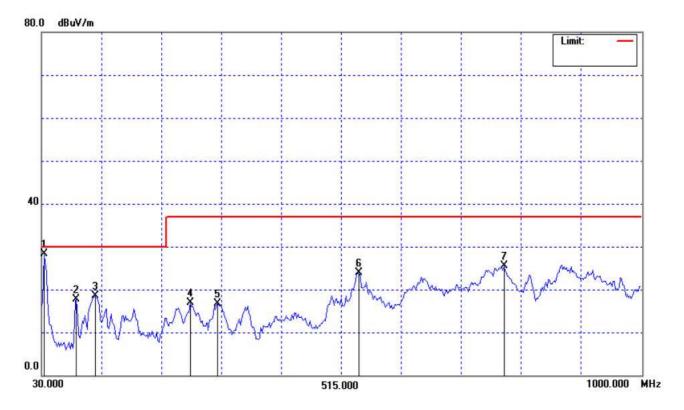
F	Emission Level	Lingita	
Frequency	Vertical	Limits	Remark
(MHz)	dBuV/m	dBuV/m	
33.880	28.29	30.00	
86.260	17.74	30.00	
117.30	18.58	30.00	
270.56	16.88	37.00	
315.18	16.66	37.00	
544.10	23.89	37.00	
778.84	25.53	37.00	

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Horizontal Curve

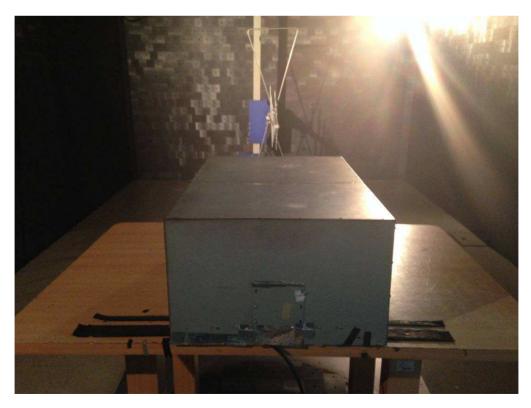


Vertical Curve



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3.2.7 Test Photo and Setup



*During the radiated test, the power-supply has to test with chassis, which is not allowed to be operated stand-alone. (For user, final assembly has to comply with corresponding EMC-and safety-regulations.)

4. ESD Measurement

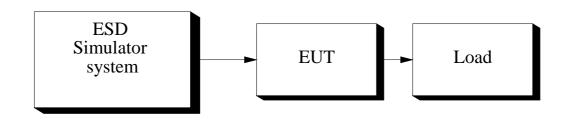
4.1 Test Equipment

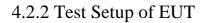
The following test equipment's are used during the ESD test :

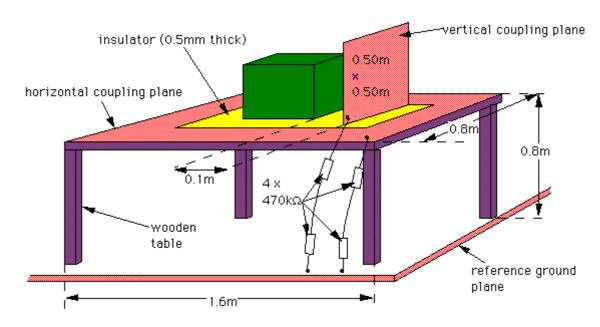
Instrument	Manufacture	Type No:	Last Calibration
ESD Simulator system	Keytek	MZ-15/EC	May.,2016
Electronic Load	D-RAM	Load-2000	N/A

4.2 Test Setup

4.2.1 Block Diagram of Connections between EUT and simulators







4.3 Severity Levels

LEVEL	TEST VOLTAGE CONTACT DISCHARGE	TEST VOLTAGE AIR DISCHARGE
1	2KV	2KV
2	4KV	4KV
3	6KV	6KV
4	8KV	8KV
X	SPECIAL	SPECIAL

4.4 EUT Operating Condition

1. Setup the EUT and Test Equipment as shown on 4.2

2. power on.

4.5 Test Procedure

Air Discharge:

This test was done above a non-conductive surfaces. The round discharge electrode about 30cm away will approach as fast as possible to touch test points of the EUT. Discharge happens before the contact. This procedure is repeated ten times on one selected location.

4.6 Test Method

According to IEC 61000-4-2

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4.7 Test Result

EUT	SWITCH POWER SUPPLY	TEMPERATURE	: <u>26°C</u>
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

Item	Amount of discharge	Voltage	Results
Contact discharge	500	+2KV -2KV	Pass Pass
Contact discharge	500	+4KV -4KV	Pass Pass
Air discharge	500	+2KV -2KV	Pass Pass
Air discharge	500	+4KV -4KV	Pass Pass
Air discharge	500	+6KV -6KV	Pass Pass
Air discharge	500	+8KV -8KV	Pass Pass

%Input Voltage / Frequency : 230Vac/50Hz

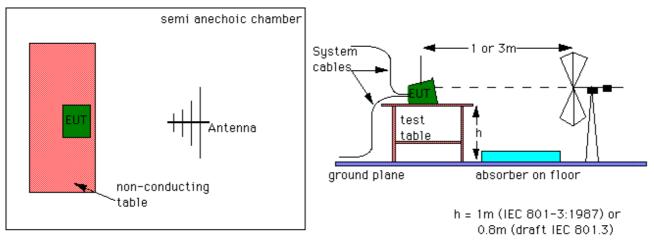
5. Radiated Susceptibility Measurement

5.1 Test Equipment

Instrument	Manufacture	Type No:	Last Calibration
Signal generator	H.P	8657A	Dec.,2016
Power amplifier	A&R	100A100	Dec.,2016
Field strength meter	A&R	FM2000	Oct.,2016
Field strength sensor	A&R	EP2000	Oct.,2016
Power antenna	A&R	AT1080	Oct.,2016

The following test equipment's are used during the RS test :

5.2 Block Diagram of Test Setup



Antennas-layout

For the upper frequency range of 200 to 1000 MHz, antennas are the normal method of producing the required field strength. This is also carried out in an anechoic chamber or a screened room. If a screened room is used it must be damped . The anechoic chamber should be used for compliance testing, the screened room may be used for precompliance testing. The fields in the screened room will not be as uniform as those obtainable in an anechoic chamber and will also not be as repeatable. The EUT is placed on a non-conductive table, 0.8 m above the reference ground plane, which in many cases will be the floor of a screened room. According to the standards, the EUT should be oriented so that its most sensitive side is facing the antenna. In practice it can be difficult to decide beforehand which is the most sensitive side, and in most cases, a series of tests will be required with the EUT in several orientations.

5.3 Severity Levels

LEVEL	FIELD STRENGTH V/M
1	1
2	3
3	10
X	SPECIAL

5.4 EUT Operating Condition

Same as section 4.4.

5.5 Test Procedure

The EUT and load are placed on a table which is 0.8 meter above ground. The field sensor is also placed on the same table to monitor field strength from transmitting antenna.

EUT is set 1 meter away from the transmitting antenna which is mounted on an antenna each time.

The antenna is fixed 1 meter above ground. Both horizontal and vertical polarization of the antenna are set on measurement. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen.

All the scanning conditions are as follows :

Condition of Test	Remarks
1. Field Strength	3 V/M Level 2
2. Radiated Signal	80% Amplitude Modulated with a 1KHz Tone
3. Scanning Frequency	80 MHz-1 GHz
4. Sweep Time of Radiated	0.0015 Decade/s

5.6 Test Method

According to IEC 61000-4-3

5.7 Test Result

EUT	SWITCH POWER SUPPLY	TEMPERATURE	: <u>26</u> °C
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

Frequency Range (MHz)	Position (Angle)	Polarity (HorV)	Field Strength (V/M)	Results
80-1000	0° (Front)	Н	3	Pass
80-1000	90° (Right)	Н	3	Pass
80-1000	180° (Back)	Н	3	Pass
80-1000	270° (Left)	Н	3	Pass
80-1000	0° (Front)	V	3	Pass
80-1000	90° (Right)	V	3	Pass
80-1000	180° (Back)	V	3	Pass
80-1000	270° (Left)	V	3	Pass

Test Result : Criteria A

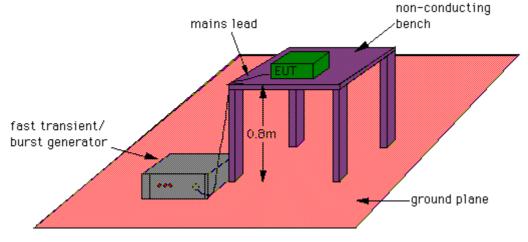
6. Electrical Fast Transient / Burst Measurement

6.1 Test Equipment

The following test equipment's are used during the EFT tests :

Instrument	Manufacturer	Type No.	Last Calibration
Fast Transient / Burst enerator	Keytek	EMCpro	May.,2016

6.2 Block Diagram of Test Setup



6.3 Severity Levels

Open Circuit Output Test Voltage ±10%		
Level	On power supply lines	
1	0.5KV	
2	1KV	
3	2KV	
4	4KV	
X	SPECIAL	

6.4 EUT Operation Condition

Same as section 4.4.

6.5 Test Procedure

The EUT and its load are placed on a table which is 0.8 meter above a metal ground plane measured 1m*1m min. And 0.65 mm thick min. And projected beyond the EUT by at least 0.1m on all sides.

The EUT is away from the walls of the test AC power line test is as follows:

For Ac power line test:

The EUT is connected to the power mains through a coupling device that directly couples the EFT interference signal.

Each of the Line and Neutral conductor is impressed with burst noise for 1 min.

6.6 Test Method

According to IEC 61000-4-4.

6.7 Test Result

EUT	[:] SWITCH POWER SUPPLY	TEMPERATURE	: <u>26</u> ℃
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

Inject Line	Voltage KV	Frequency (KHz)	Inject time (sec)	Inject Method	Result
L1	±1	5	60	Direct	Pass
L2	±1	5	60	Direct	Pass
PE	±1	5	60	Direct	Pass
L1-L2	±1	5	60	Direct	Pass
L1-PE	±1	5	60	Direct	Pass
L2-PE	±1	5	60	Direct	Pass
L1,L2-PE	±1	5	60	Direct	Pass

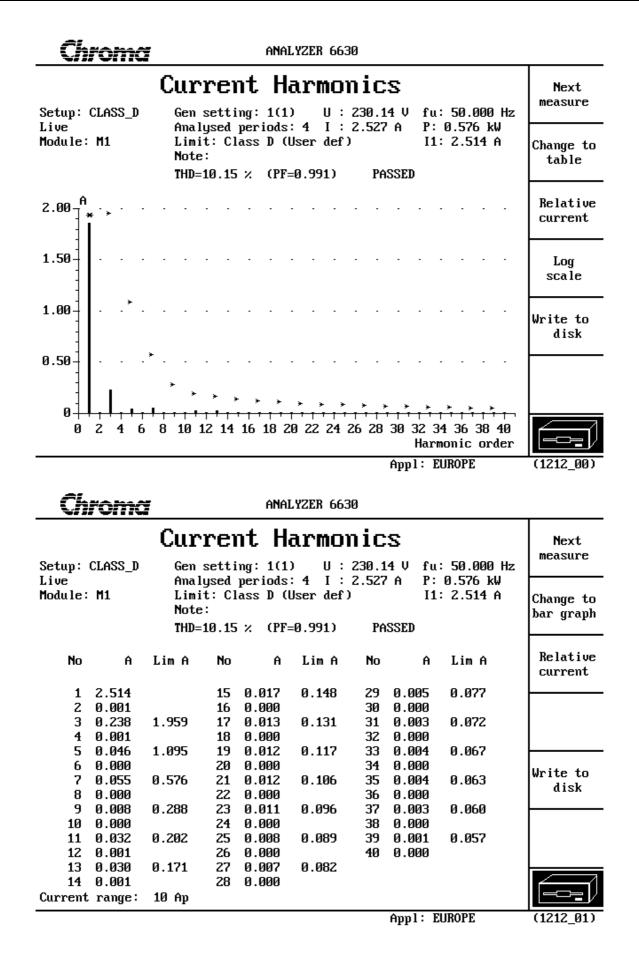
%Input Voltage / Frequency : 230Vac/50Hz

7. Harmonic Current Test

EUT	: <u>SWITCH POWER SUPPLY</u>	TEMPERATURE	: <u>26</u> ℃
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

Itom	Reading	g Leve A	Itorea	Reading	g Leve A
Item	А	Limites	Item	А	Limites
1	2.514				
3	0.238	1.959			
5	0.046	1.095			
7	0.055	0.576			
9	0.008	0.288			
11	0.032	0.202			
13	0.030	0.171			
15	0.017	0.148			
17	0.013	0.131			
19	0.012	0.117			
21	0.012	0.106			
23	0.011	0.096			
25	0.008	0.089			
27	0.007	0.082			
29	0.005	0.077			
31	0.003	0.072			
33	0.004	0.067			
35	0.004	0.063			
37	0.003	0.060			
39	0.001	0.057			

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8. Voltage Fluctuation And Flicker Test

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: <u>26</u> ℃
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

0.000		
0.000	1.00	Pass
0.000	0.65	Pass
0.000	3.00	Pass
0.000	4.00	Pass
0.000	0.20	Pass
	0.000 0.000 0.000	0.000 0.65 0.000 3.00 0.000 4.00

9. Surge Immunity Test

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: <u>26</u> °C
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

Waveform	Voltage	Output:LC	Phs Ref	Phs Ang	Tests	Delay	Result
12 Ohm	-2000V	MAINS:L1/PE	L1	0 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L1/PE	L1	90 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L1/PE	L1	270 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L1/PE	L1	0 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L1/PE	L1	90 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L1/PE	L1	270 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L2/PE	L1	0 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L2/PE	L1	90 deg.	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L2/PE	L1	270 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L2/PE	L1	0 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L2/PE	L1	90 deg.	5	60 sec	Pass
12 Ohm	2000V	MAINS:L2/PE	L1	270 deg.	5	60 sec	Pass
2 Ohm	-1000V	MAINS:L1/L2	L1	0 deg.	5	60 sec	Pass
2 Ohm	-1000V	MAINS:L1/L2	L1	90 deg.	5	60 sec	Pass
2 Ohm	-1000V	MAINS:L1/L2	L1	270 deg.	5	60 sec	Pass
2 Ohm	1000V	MAINS:L1/L2	L1	0 deg.	5	60 sec	Pass
2 Ohm	1000V	MAINS:L1/L2	L1	90 deg.	5	60 sec	Pass
2 Ohm	1000V	MAINS:L1/L2	L1	270 deg.	5	60 sec	Pass

10. Conducted Immunity Test

EUT	: <u>SWITCH POWER SUPPLY</u>	TEMPERATURE	: 26°C
TEST MODE	: <u>P1H-5507V</u>	HUMIDITY	: 65%

Test frequency Range : 150kHz ~ 80MHz Frequency Step : 1% of the momentary frequency Dwell Time : Minimum 3 sec. per frequency Modulation : 1kHz Sine Wave with 80% Amplitude Modulation

Frequency Range	Polarity	Field Strength	Perfor	mance	Decult
(MHz)	(HorV)	(V/M)	Required	Observation	Result
0.15-80	Н	3	А	А	Pass

11. Voltage Dip, Interruptions Immiunity Test

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: 26°C
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

Test	Phase	Reduction	Duration	Perfor	mance	Degul4
Voltage	Angle	%	(Periods)	Required	Observation	Result
-	0 deg.		0.5	В	А	Pass
	90 deg.	>95%	0.5	В	А	Pass
	180 deg.	<i>>937</i> 0	0.5	В	А	Pass
	270 deg.		0.5	В	А	Pass
	0 deg.		25	С	С	Pass
AC 115V	90 deg.	30%	25	С	С	Pass
AC 115 V	180 deg.	30%	25	С	С	Pass
	270 deg.		25	С	С	Pass
	0 deg.		250	С	С	Pass
	90 deg.	>95%	250	С	С	Pass
	180 deg.		250	С	С	Pass
	270 deg.		250	С	С	Pass
	0 deg.		0.5	В	А	Pass
	90 deg.	>95%	0.5	В	А	Pass
	180 deg.		0.5	В	А	Pass
	270 deg.		0.5	В	А	Pass
	0 deg.		25	С	А	Pass
AC 230V	90 deg.	30%	25	С	А	Pass
AC 250 V	180 deg.	30%	25	С	А	Pass
	270 deg.		25	С	А	Pass
	0 deg.		250	С	С	Pass
	90 deg.	> 0 <i>5</i> 0/	250	С	С	Pass
	180 deg.	>95%	250	С	С	Pass
	270 deg.		250	С	С	Pass

12. Power Frequency Magnetic Field (PFM) Immunity Test

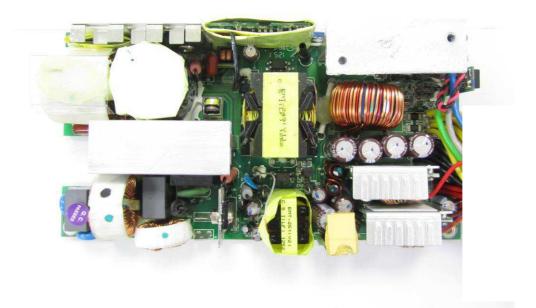
EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: <u>26</u> °C
TEST MODE	[:] <u>P1H-5507V</u>	HUMIDITY	: 65%

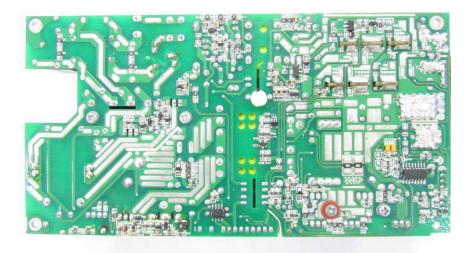
Magnetic Field	Magnetic Field	Perfor	Result		
Orientation	(A/m)	Required	Observation	(Pass/Fail)	
X-axis	1A	А	А	Pass	
Y-axis	1A	А	А	Pass	
Z-axis	1A	А	А	Pass	

13. Photographs 1.Front view of Power Supply 2.Back view of Power Supply



3.Component side of Mainboard 4.Solder side of Mainboard





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5.Inside view of Power Supply 6.Inside view of Power Supply





14. EMI Reduction Method During Compliance Testing

1.No modification was made during test.