



FCC TEST REPORT

Product: Thermal Receipt Printer

Trade mark : Rongta

Model/Type reference : RP80-USE, RP802-USE, RP803-USE,

RP804-USE, RP808-USE, RP809-USE, RP815-USE, RP820-USE, RP850-USE

Serial Number : N/A

Report Number : EED32I000654

FCC ID : 2AD6G-RP80-USE

Date of Issue : May 05, 2016

Test Standards : 47 CFR Part 15 Subpart B (2015)

Test result : PASS

Prepared for:

XIAMEN RONGTA TECHNOLOGY CO., LTD.

3F-1/E Building, No.195 Gaoqishe, Gaodian Village, Dianqian Street
Office, Huli District, Xiamen City

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China FAX: +86-755-3368 3385

Compiled by:

Approved by:

Report Seal

Reviewed by:

Date:

May 05, 2016

Sheek Luo

Lab supervisor

Check No.: 2392104606









2 Version





Version No.	Date	Description	
00	May 05, 2016	Original	
`			









































































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3 Test Summary

Test Item	Test Requirement	Test method	Result
Radiated Emission	47 CFR Part 15B	ANSI C63.4-2014	PASS
Conducted Emission (150KHz to 30MHz)	47 CFR Part 15B	ANSI C63.4-2014	PASS

Remark:

The tested samples and the sample information are provided by the client.

Model No.: RP80-USE, RP802-USE, RP803-USE, RP804-USE, RP808-USE, RP809-USE, RP815-USE, RP820USE, RP850USE

Only the Model RP80-USE was tested, since the PCB, electrical circuit design, layout, components used and internal wiring are identical for all above models. Only the shell structure of the whole machine is different.











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5 General Information

5.1 Client Information

Applicant:	XIAMEN RONGTA TECHNOLOGY CO., LTD.
Address of Applicant:	3F-1/E Building, No.195 Gaoqishe, Gaodian Village, Dianqian Street Office, Huli District, Xiamen City
Manufacturer:	XIAMEN RONGTA TECHNOLOGY CO., LTD.
Address of Manufacturer:	3F-1/E Building, No.195 Gaoqishe, Gaodian Village, Dianqian Street Office, Huli District, Xiamen City
Factory:	XIAMEN RONGTA TECHNOLOGY CO., LTD.
Address of Factory:	3F-1/E Building, No.195 Gaoqishe, Gaodian Village, Dianqian Street Office, Huli District, Xiamen City

5.2 General Description of EUT

Product Name:	Thermal Receipt Printer					
Mode No.:	RP80-USE, RP802-USE, RP803-USE, RP804-USE, RP808 RP809-USE, RP815-USE, RP820-USE, RP850-USE	RP80-USE, RP802-USE, RP803-USE, RP804-USE, RP808-USE, RP809-USE, RP815-USE, RP820-USE, RP850-USE				
Test Mode No.:	RP80-USE					
Trade Mark:	Rongta	(3)				
Power Supply:	AC adapter: AC 100-240V, 50/60Hz					

5.3 Product Specification subjective to this standard

Sample Type:	Fixed production		
EUT Function:	Printer		
Test voltage:	AC 120V/60Hz	(6,1)	(C.)
Sample Received Date:	Apr. 05, 2016		
Sample tested Date:	Apr. 05, 2016 to May 05, 2016		

5.4 Test Environment and Mode

Operating Environment:				
Temperature:	24°C			
Humidity:	50% RH	-0-		
Atmospheric Pressure:	1010mbar			(4)
Test mode:)		0	0
Normal operation:	PC connect and	data transferring		





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5.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Certification	Supplied by
PC	HP	HP 430 G3	FCC DOC	СТІ
Mouse	L.Selectron	M004	FCC DOC	СТІ
Monitor	DELL	P170S6	FCC DOC	СТІ
Keyboard	L.Selectron	GL-204	FCC DOC	СТІ

5.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

5.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 565659

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 565659.

IC-Registration No.: 7408A

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A.

IC-Registration No.: 7408B

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B.



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NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096. Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of

Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

5.8 Deviation from Standards

None.

5.9 Abnormalities from Standard Conditions

None.

5.10 Other Information Requested by the Customer

None.

5.11 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	Dedicted Sourious emission	4.5dB (30MHz-1GHz)
2	Radiated Spurious emission	4.8dB (1GHz-12.75GHz)
3	Conduction emission	3.6dB (9kHz to 150kHz)
3	Conduction emission	3.2dB (150kHz to 30MHz)
4	Temperature	0.64°C
5	Humidity	2.8%
6	DC power voltages	0.025%











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6 Equipment List

	Conducted disturbance Test					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd- yyyy)	Cal. Due date (mm-dd-yyyy)	
Receiver	R&S	ESCI	100009	06-30-2015	06-28-2016	
Temperature/ Humidity Indicator	Belida	TT-512	101	07-09-2015	07-07-2016	
Communication test set	Agilent	E5515C	GB47050534	04-01-2016	03-31-2017	
Communication test set	R&S	CMW500	152394	04-01-2016	03-31-2017	
LISN	R&S	ENV216	100098	06-30-2015	06-28-2016	
LISN	schwarzbeck	NNLK8121	8121-529	06-30-2015	06-28-2016	
Voltage Probe	R&S	ESH2-Z3	100042	07-09-2014	07-08-2017	
Current Probe	R&S	EZ17	100106	07-09-2014	07-08-2017	
ISN	TESEQ GmbH	ISN T800	30297	01-29-2015	01-27-2017	









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16.57	(6)	1	(6.5)	10.	S)
	3M	Semi/full-anech	noic Chamber		
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3		06-02-2013	06-01-2016
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-484	05-25-2015	05-23-2016
Microwave Preamplifier	Agilent	8449B	3008A02425	02-04-2016	02-03-2017
Horn Antenna	ETS-LINDGREN	3117	00057410	06-30-2015	06-28-2018
Loop Antenna	ETS	6502	00071730	07-30-2015	07-28-2017
Spectrum Analyzer	R&S	FSP40	100416	06-30-2015	06-28-2016
Receiver	R&S	ESCI	100435	06-30-2015	06-28-2016
Multi device Controller	maturo	NCD/070/10711 112		01-12-2016	01-11-2017
LISN	schwarzbeck	NNBM8125	81251547	06-30-2015	06-28-2016
LISN	schwarzbeck	NNBM8125	81251548	06-30-2015	06-28-2016
Signal Generator	Agilent	E4438C	MY45095744	04-01-2016	03-31-2017
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Temperature/ Humidity Indicator	TAYLOR	1451	1905	07- 08-2015	07-06-2016
Communication test set	Agilent	E5515C	GB47050534	04-01-2016	03-31-2017
Cable line	Fulai(7M)	SF106	5219/6A	01-12-2016	01-11-2017
Cable line	Fulai(6M)	SF106	5220/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5216/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5217/6A	01-12-2016	01-11-2017
Communication test set	R&S	CMW500	152394	04-01-2016	03-31-2017
High-pass filter(3- 18GHz)	Sinoscite	FL3CX03WG18 NM12-0398-002		01-12-2016	01-11-2017
High-pass filter(6- 18GHz)	MICRO- TRONICS	SPA-F-63029-4		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA09C L12-0395-001		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA04C L12-0396-002		01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA03C L12-0394-001	(7)	01-12-2016	01-11-2017



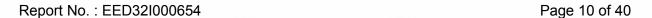












Test results and Measurement Data 7

7.1 Conducted Emissions

Test Requirement: 47 CFR Part 15B **ANSI C63.4** Test Method:

Test frequency range: 150kHz to 30MHz

Limit:

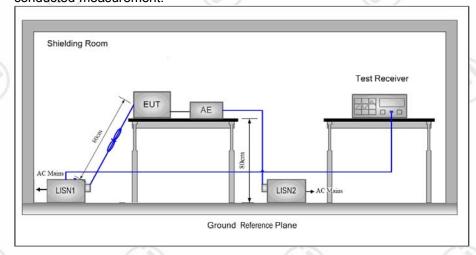
Fraguenov rango (MUT)	Limit	(dBµV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

Test Procedure:

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.

Test Setup:



Instruments Used:

Refer to section 6 for details

Test Results:

Pass



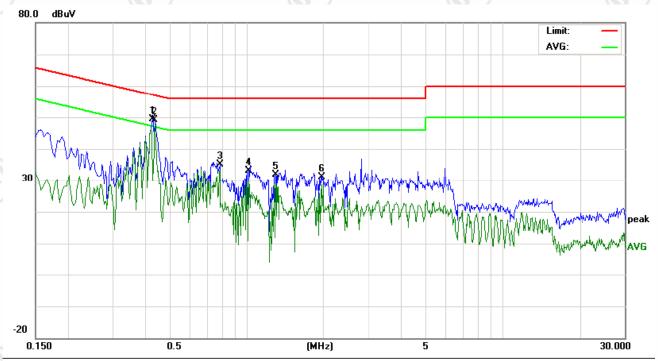
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



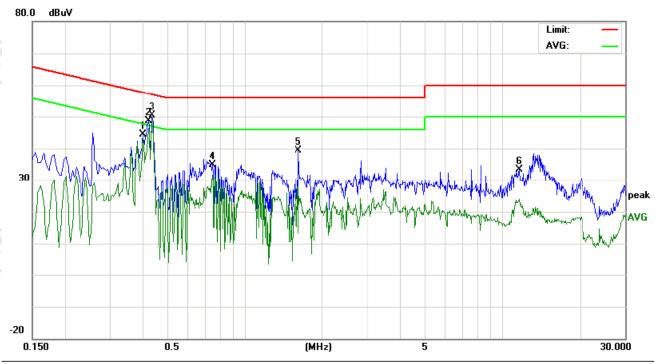
No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)			
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.4220	36.84	36.40	36.39	9.90	46.74	46.30	46.29	57.41	47.41	-11.11	-1.12	Р	
2	0.4380	39.27	38.94	36.32	9.90	49.17	48.84	46.22	57.10	47.10	-8.26	-0.88	Р	
3	0.7860	25.28	24.13	23.17	9.90	35.18	34.03	33.07	56.00	46.00	-21.97	-12.93	Р	
4	1.0060	22.84	20.17	19.85	10.00	32.84	30.17	29.85	56.00	46.00	-25.83	-16.15	Р	
5	1.2980	21.76	19.00	18.82	10.00	31.76	29.00	28.82	56.00	46.00	-27.00	-17.18	Р	
6	1.9780	21.06	19.57	18.57	10.00	31.06	29.57	28.57	56.00	46.00	-26.43	-17.43	Р	







Neutral Line:



	No.	Freq.		ding_Le dBuV)	vel	Correct Factor	M	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		
_		MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
3	1	0.4020	34.35	34.00	33.78	9.90	44.25	43.90	43.68	57.81	47.81	-13.91	-4.13	Р	
1	2	0.4220	38.84	38.00	36.80	9.90	48.74	47.90	46.70	57.41	47.41	-9.51	-0.71	Р	
	3	0.4380	40.40	38.94	36.32	9.90	50.30	48.84	46.22	57.10	47.10	-8.26	-0.88	Р	
	4	0.7500	24.95	22.00	21.77	9.90	34.85	31.90	31.67	56.00	46.00	-24.10	-14.33	Р	
	5	1.6260	29.42	26.20	17.86	10.00	39.42	36.20	27.86	56.00	46.00	-19.80	-18.14	Р	
	6	11.7060	23.44	19.80	13.77	10.03	33.47	29.83	23.80	60.00	50.00	-30.17	-26.20	Р	

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.











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7.2 Radiated Emission

Test Requirement: 47 CFR Part 15B **Test Method:** ANSI C63.4

Test site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver setup:

Limit:

				LEY, V.	1.60		
Frequency Detector			RBW	VBW	Remark		
30MHz-1GHz	Quasi-peak	(120kHz	300kHz	Quasi-peak Value		
Above 1GHz	Peak	Peak 1		3MHz	Peak Value		
Freque	ency	L	_imit (dBµV/	/m @3m)	Remark		
30MHz-8	88MHz		40.0)	Quasi-peak Value		
88MHz-2	16MHz		43.5	5	Quasi-peak Value		
216MHz-960MHz			46.0)	Quasi-peak Value		
960MHz-	-1GHz		54.0		Quasi-peak Value		
Above 1	1CH-		54.0		Average Value		
Above	IGHZ		74.0)	Peak Value		
4011 4 4							

Test Procedure:

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber (Above 18GHz the distance is 1 meter).
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.















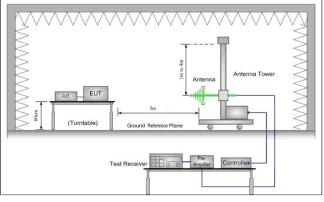






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Test Setup:



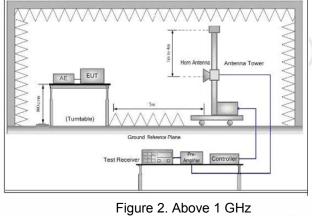


Figure 1. 30MHz to 1GHz

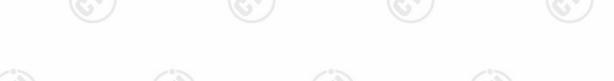
Instruments Used: Refer to section 6 for details

Test Results: Pass







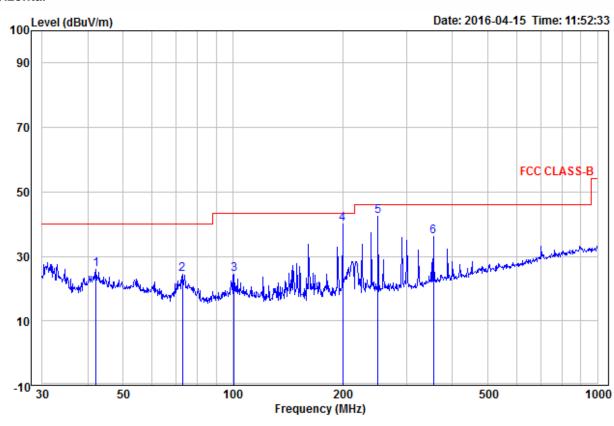








Below 1GHz Horizontal



		Ant	Cable	Read		Limit	0ver		
	Freq	Factor	Loss	Level	Level	Line	Limit	Pol/Phase	Remark
_									
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	42.154	14.41	0.73	10.80	25.94	40.00	-14.06	Horizontal	
2	72.847	9.86	1.49	13.20	24.55	40.00	-15.45	Horizontal	
3	100.934	13.12	1.57	9.86	24.55	43.50	-18.95	Horizontal	
4 pp	199.986	11.60	2.21	26.34	40.15	43.50	-3.35	Horizontal	
5	250.301	12.41	2.35	27.56	42.32	46.00	-3.68	Horizontal	
6	355.427	14.97	2.72	18.34	36.03	46.00	-9.97	Horizontal	



















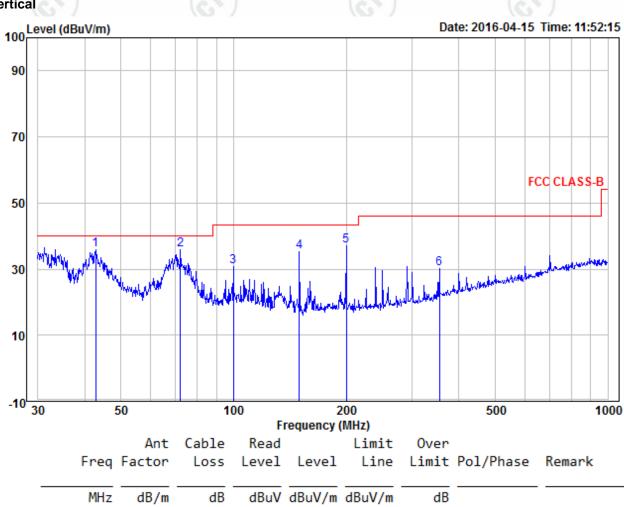






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Vertical



		Ant	Cabie	Kead		Limit	over			
	Freq	Factor	Loss	Level	Level	Line	Limit	Pol/Phase	Remark	
										_
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	42.750	14.47	0.79	20.65	35.91	40.00	-4.09	Vertical		
2 pp	72.084	10.00	1.48	24.44	35.92	40.00	-4.08	Vertical		
3	99.878	13.18	1.57	16.00	30.75	43.50	-12.75	Vertical		
4	150.011	9.70	1.58	23.88	35.16	43.50	-8.34	Vertical		
5		11.60	2.21	23.11	36.92	43.50	-6.58	Vertical		
6	355.427	14.97	2.72	12.46	30.15	46.00	-15.85	Vertical		















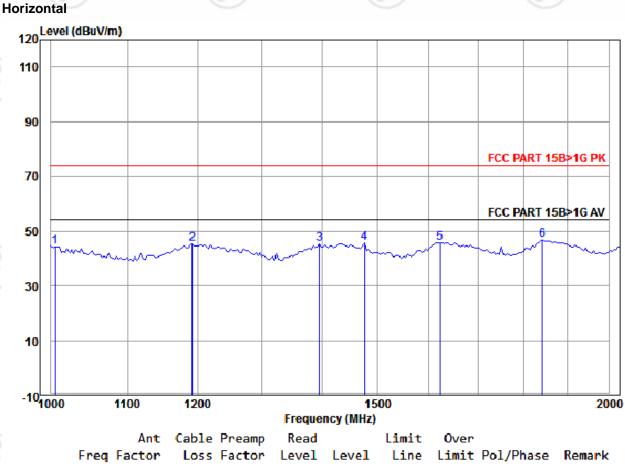








Above 1GHz



		Ant	Cable	Preamp	Read		Limit	Over		
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Pol/Phase	Remark
	MHz	dB/m	dB	₫B	dBu V	dBuV/m	dBuV/m	dB		
1	1005.104	29.71	2.27	35.19	47.33	44.12	74.00	-29.88	Horizontal	
2	1192.011	30.21	2.51	34.97	47.47	45.22	74.00	-28.78	Horizontal	
3	1395.796	30.66	2.73	34.77	46.53	45.15	74.00	-28.85	Horizontal	
4	1476.193	30.82	2.81	34.69	46.53	45.47	74.00	-28.53	Horizontal	
5	1621.985	31.10	2.94	34.57	46.26	45.73	74.00	-28.27	Horizontal	
6	pp 1842.139	31.46	3.11	34.41	46.55	46.71	74.00	-27.29	Horizontal	















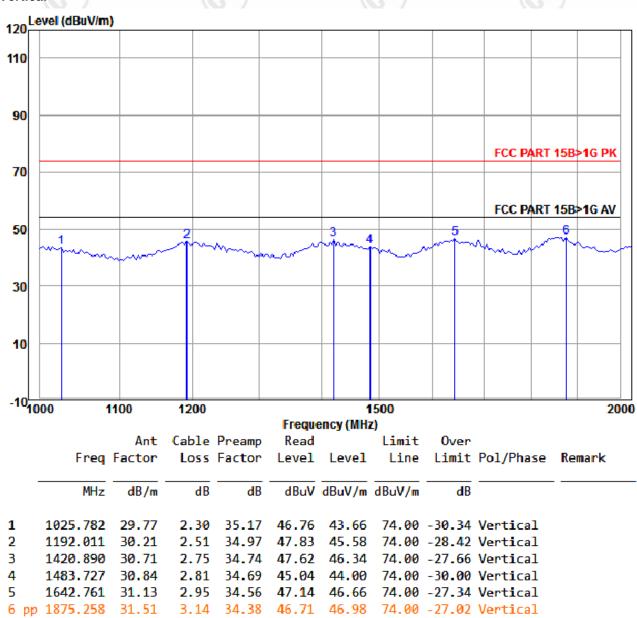






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Vertical



Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor









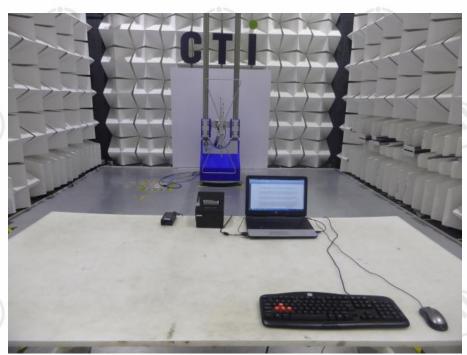




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APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Test Model No.: RP80-USE



Radiated emission Test Setup (Below 1GHz)



Radiated emission Test Setup (Above 1GHz)









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Conducted Emissions

















































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APPENDIX 2 PHOTOGRAPHS OF EUT

Test Model No.: RP80-USE



View of Product-1



View of Product-2



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View of Product-3



View of Product-4













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View of Product-5



View of Product-6





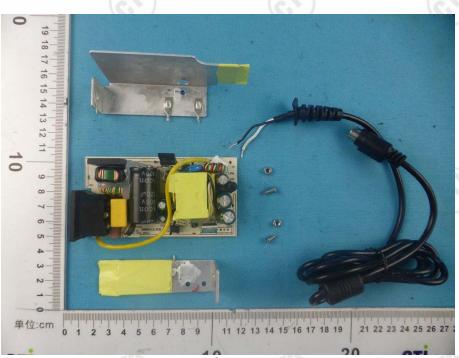




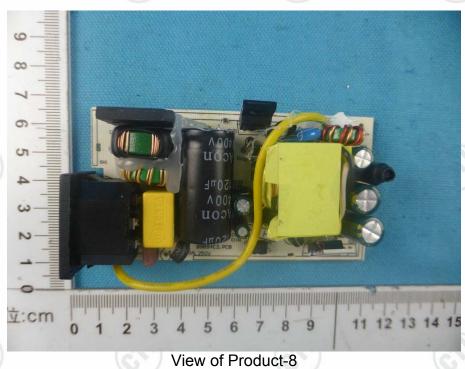




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View of Product-7













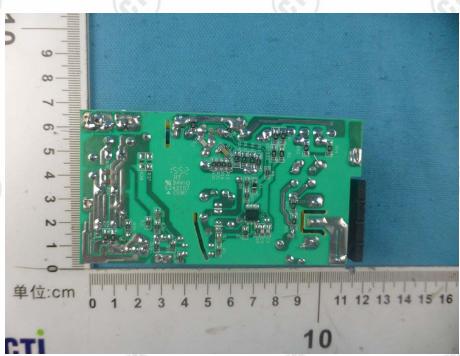








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View of Product-9



View of Product-10



















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View of Product-13













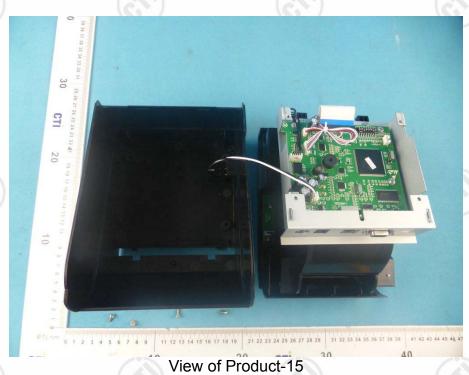


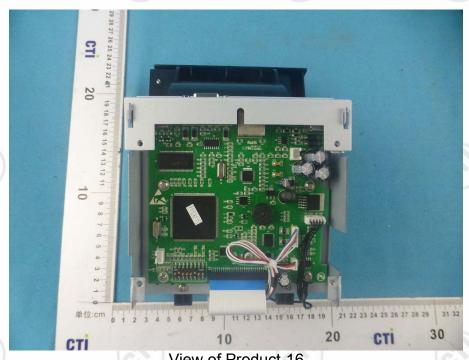






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View of Product-16





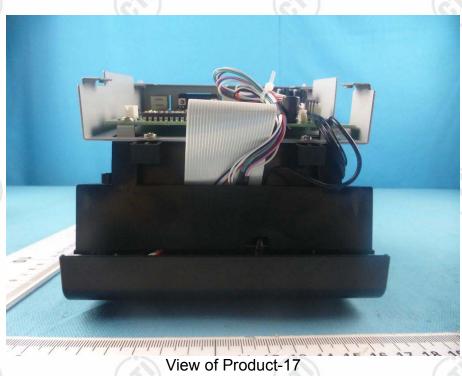








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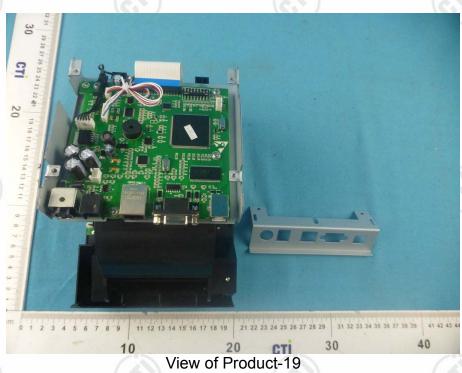








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View of Product-20









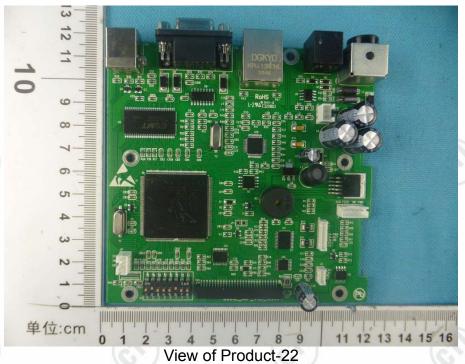




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View of Product-21







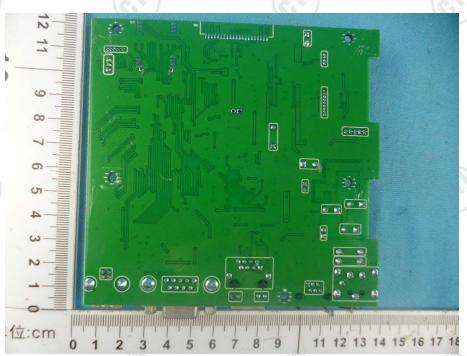




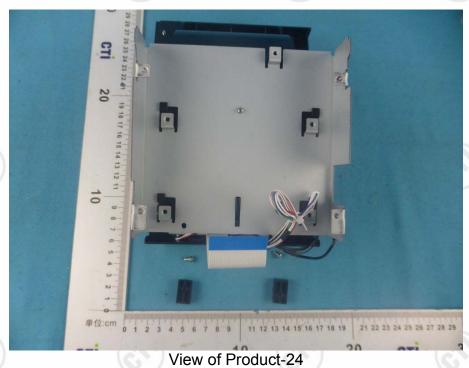




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View of Product-23







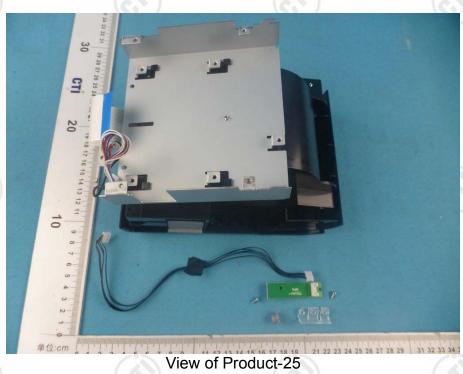


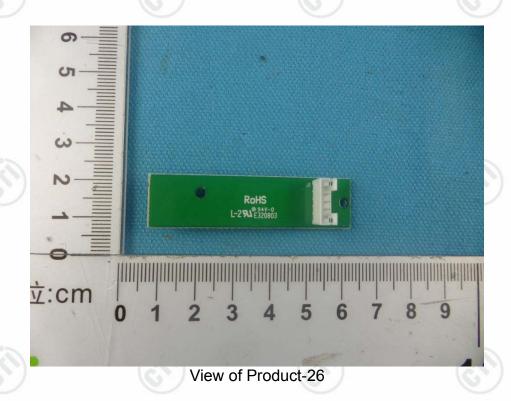






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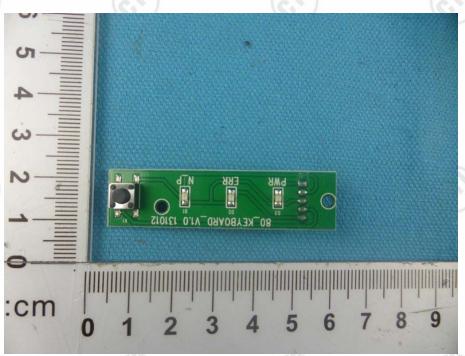








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View of Product-27













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View of Product-29







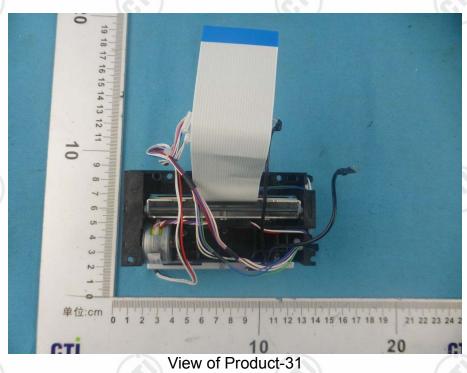








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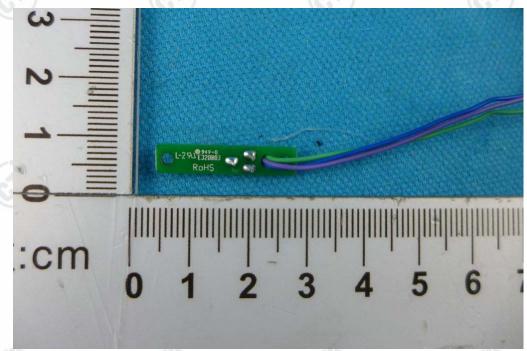
View of Product-33



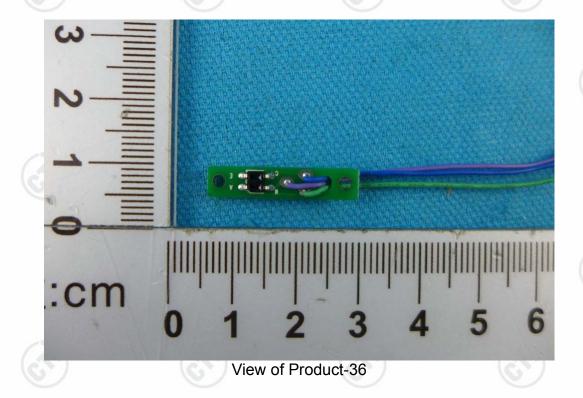




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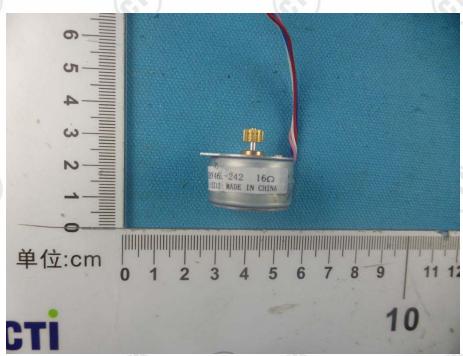
View of Product-35



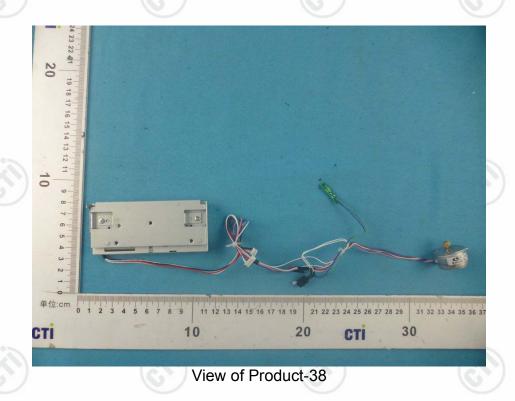








View of Product-37







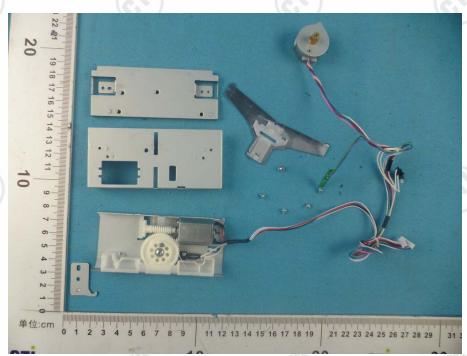








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View of Product-39

*** End of Report ***

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