

FCC TEST REPORT

Product : FINGERPRINT TIME RECORDER
Brand Name : Targetmax®/Allied Time USA
Model/Type reference : T-MAX 7, T-MAX 8, T-MAX 9, T-MAX 10,
T-MAX 7N, T-MAX 8N, T-MAX 9N, TA-7,
TA-7N, TA-3000, TA-6000, AT-5000,
AT-5000N, AT-5000S, AT-5000+
Serial Number : N/A
Report Number : EED32H002569
FCC ID : 2AG2DTMAX7AT5000
Date of Issue : Jan. 25, 2016
Test Standards : 47 CFR Part 15 Subpart C (2015)
Test result : PASS

Prepared for:

NITO OFFICE MACHINES LIMITED
RM 2704, 27/F., KWONG KIN TRADE CENTRE, 5 KIN FAT ST,
TUEN MUN, NEW TERRITORIES, HONGKONG

Prepared by:

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Date:

Jan. 25, 2016

Check No.: 2308408271

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2 Version

Version No.	Date	Description
00	Jan. 25, 2016	Original

3 Test Summary

Test Item	Test Requirement	Test method	Result
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS
Radiated Emission	47 CFR Part 15 Subpart C Section 15.205(b)	ANSI C63.10-2013	PASS
Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.215	ANSI C63.10-2013	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Model No.: T-MAX 7, T-MAX 8, T-MAX 9, T-MAX 10, T-MAX 7N, T-MAX 8N, T-MAX 9N, TA-7, TA-7N, TA-3000, TA-6000, AT-5000, AT-5000N, AT-5000S, AT-5000+.

Only the model T-MAX 7 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being cosmetic.

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5 General Information

5.1 Client Information

Applicant:	NITO OFFICE MACHINES LIMITED
Address of Applicant:	RM 2704, 27/F., KWONG KIN TRADE CENTRE, 5 KIN FAT ST, TUEN MUN, NEW TERRITORIES, HONGKONG
Manufacturer:	SHENZHEN NITO OFFICE MACHINES LIMITED
Address of Manufacturer:	ROOM 406, 4/F., XINTING BUILDING, NO. 38 XINHE AVENUE, SHAJIN TOWN, BAOAN DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA
Factory:	SHENZHEN NITO OFFICE MACHINES LIMITED
Address of Factory:	ROOM 406, 4/F., XINTING BUILDING, NO. 38 XINHE AVENUE, SHAJIN TOWN, BAOAN DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA

5.2 General Description of EUT

Product Name:	FINGERPRINT TIME RECORDER
Mode No.:	T-MAX 7, T-MAX 8, T-MAX 9, T-MAX 10, T-MAX 7N, T-MAX 8N, T-MAX 9N, TA-7, TA-7N, TA-3000, TA-6000, AT-5000, AT-5000N, AT-5000S, AT-5000+
Test Model No.:	T-MAX 7
Brand Name:	Targetmax®/Allied Time USA
EUT Supports Radios application:	Frequency Range : 125kHz
AC adapter:	Model: DAS242-090250W-1 Input:100-240V~50/60Hz 0.75A MAX Output: 9.0V = 2.5A
Power Supply:	Lithium-ion Battery: DC 7.4V, 2000mAh

5.3 Product Specification subjective to this standard

Carrier Frequency:	125kHz
Hardware Version:	RFID-v1.0.1
Software Version:	T7-US-F1-v3.6.6
Test power grade:	NA (manufacturer declare)
Test software of EUT:	NA (manufacturer declare)
Power Line:	195cm (Unshielded)
Antenna Type:	Internal
Antenna Gain:	0dBi
Test voltage:	AC 120V, 60Hz
Sample Received Date:	Dec. 24, 2015
Sample tested Date:	Dec. 24, 2015 to Jan. 25, 2016

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5.4 Test Environment and Mode

Operating Environment:	
Temperature:	22 °C
Humidity:	50 % RH
Atmospheric Pressure:	1010mbar
Test mode:	
Transmitting mode:	The EUT transmitted the continuous modulation test signal at the specific channel(s)

5.5 Description of Support Units

The EUT has been tested independently.

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.

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	7.9×10^{-8}
2	RF power, conducted	0.31dB (30MHz-1GHz)
		0.57dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.6dB (9kHz to 150kHz)
		3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	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	GB47050533	04-27-2015	04-26-2016
Communication test set	R&S	CMW500	152394	04-19-2015	04-18-2016
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

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber	TDK	SAC-3	---	06-02-2013	06-01-2016
TRILOG Broadband Antenna	schwarzbeck	VULB9163	9163-617	07-31-2015	07-29-2016
Microwave Preamplifier	Agilent	8449B	3008A02425	02-05-2015	02-04-2016
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/070/10711112	---	01-12-2016	01-10-2017
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	04-19-2015	04-18-2016
Signal Generator	Keysight	E8257D	MY53401106	04-14-2015	04-13-2016
Temperature/Humidity Indicator	TAYLOR	1451	1905	07-08-2015	07-06-2016
Communication test set	Agilent	E5515C	GB47050533	04-27-2015	04-26-2016
Cable line	Fulai(7M)	SF106	5219/6A	01-12-2016	01-10-2017
Cable line	Fulai(6M)	SF106	5220/6A	01-12-2016	01-10-2017
Cable line	Fulai(3M)	SF106	5216/6A	01-12-2016	01-10-2017
Cable line	Fulai(3M)	SF106	5217/6A	01-12-2016	01-10-2017
Communication test set	R&S	CMW500	152394	04-19-2015	04-18-2016
High-pass filter(3-18GHz)	Sinoscite	FL3CX03WG18NM 12-0398-002	---	01-12-2016	01-10-2017
High-pass filter(5-18GHz)	MICRO-TRONICS	SPA-F-63029-4	---	01-12-2016	01-10-2017
band rejection filter	Sinoscite	FL5CX01CA09CL1 2-0395-001	---	01-12-2016	01-10-2017
band rejection filter	Sinoscite	FL5CX01CA08CL1 2-0393-001	---	01-12-2016	01-10-2017
band rejection filter	Sinoscite	FL5CX02CA04CL1 2-0396-002	---	01-12-2016	01-10-2017
band rejection filter	Sinoscite	FL5CX02CA03CL1 2-0394-001	---	01-12-2016	01-10-2017

7 Test Result & Measurement Data

7.1 Antenna Requirement

Standard Requirement:	47 CFR Part 15C Section 15.203
15.203 Requirement:	
<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>	

7.2 Conducted Emissions

Test Requirement: 47 CFR Part 15C Section 15.207

Test Method: ANSI C63.10

Test Frequency Range: 150kHz to 30MHz

Limit:

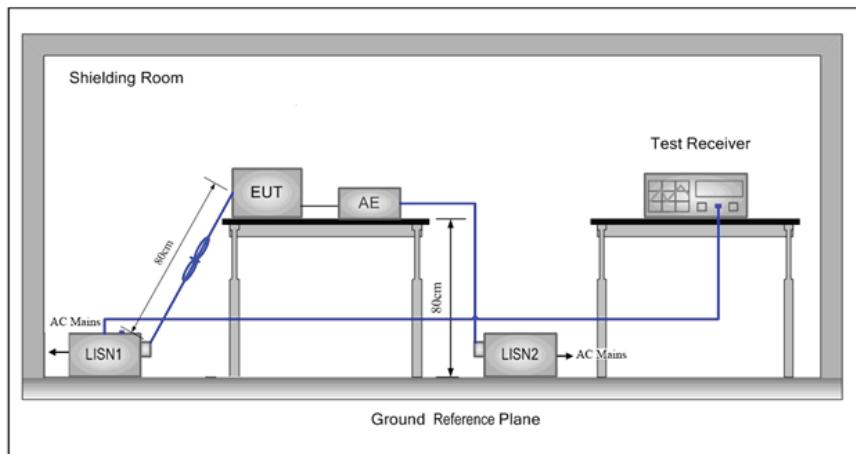
Frequency range (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

- 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 $50\Omega/50\mu\text{H} + 5\Omega$ 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 LISNs 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.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.

Test Procedure:

Test Setup:



Test Mode:

Transmitting mode

Instruments Used:

Refer to section 6 for details

Test Results:

Pass

Test Data

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

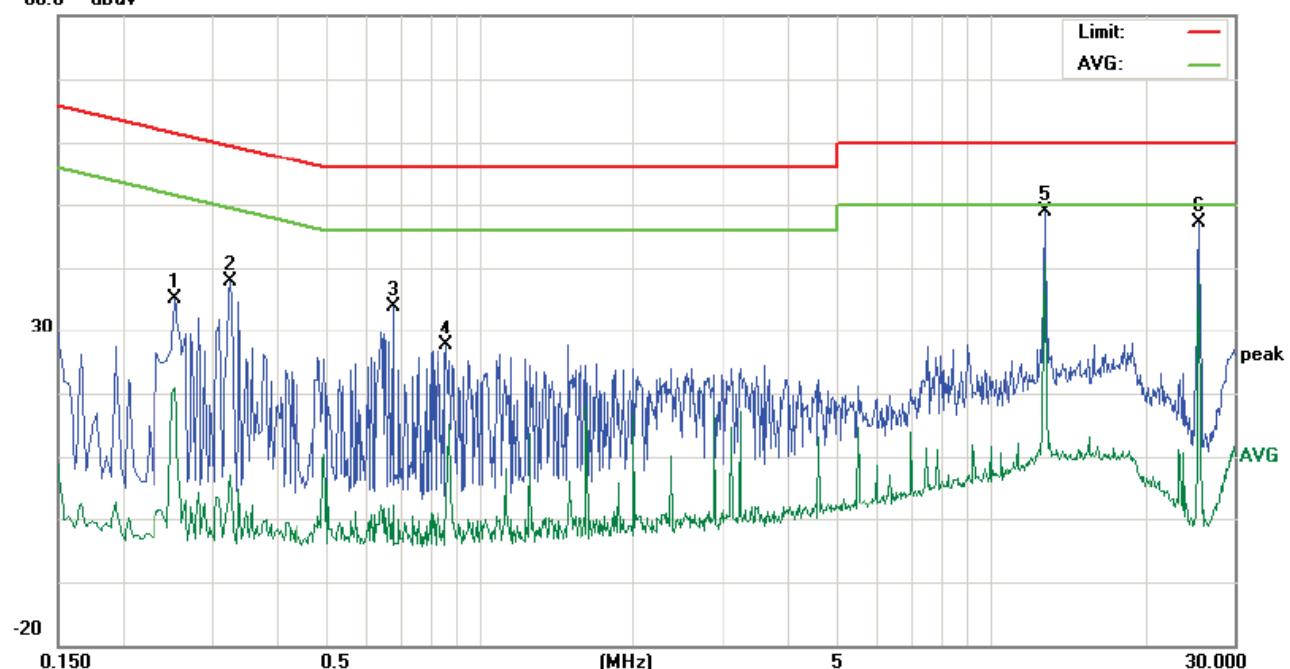
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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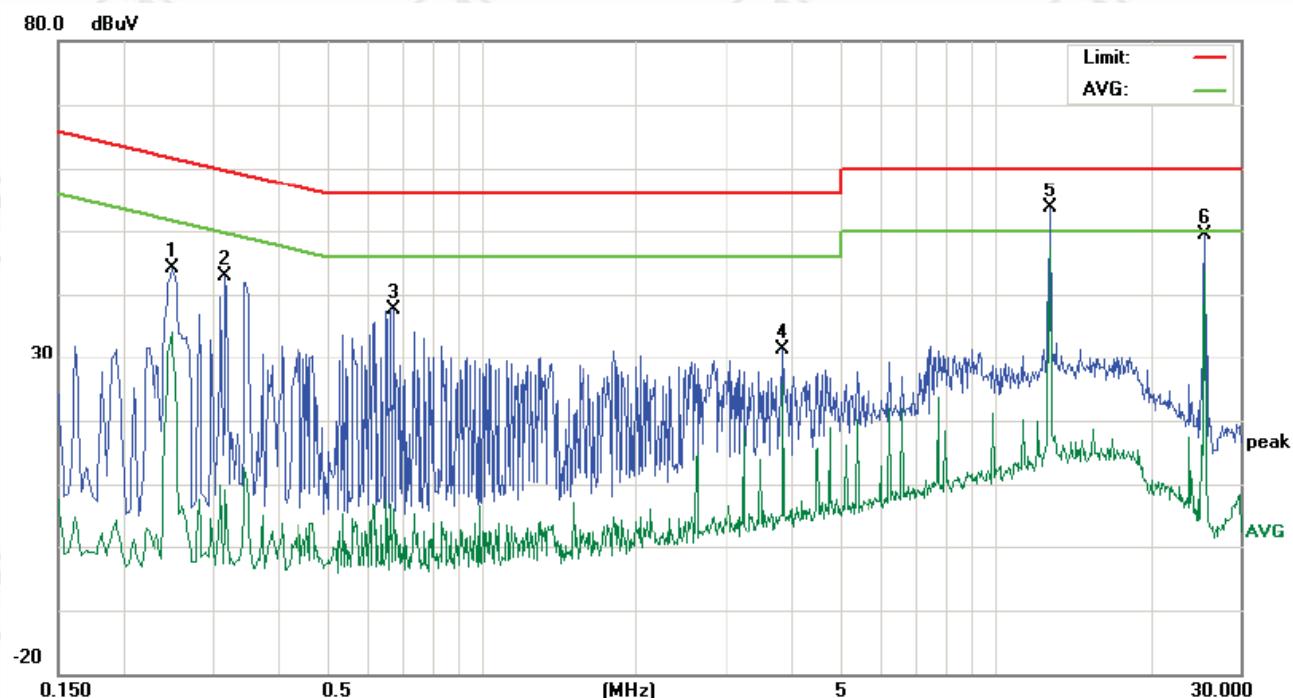
Live Line:

80.0 dBuV



No.	Freq.	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)			Margin (dB)		
		MHz	Peak	QP	Avg	peak	QP	Avg	QP	Avg	QP	Avg	P/F	Comment
1	0.2540	25.31	15.57	-0.82	9.80	35.11	25.37	8.98	61.62	51.62	-36.25	-42.64	P	
2	0.3260	28.00	20.31	-8.56	9.83	37.83	30.14	1.27	59.55	49.55	-29.41	-48.28	P	
3	0.6780	24.09	9.37	-12.5	9.90	33.99	19.27	-2.68	56.00	46.00	-36.73	-48.68	P	
4	0.8660	17.68	6.37	-12.4	9.97	27.65	16.34	-2.50	56.00	46.00	-39.66	-48.50	P	
5	12.8020	38.78	36.78	30.07	10.06	48.84	46.84	40.13	60.00	50.00	-13.16	-9.87	P	
6	25.6020	36.85	37.62	27.50	10.39	47.24	48.01	37.89	60.00	50.00	-11.99	-12.11	P	

Neutral Line:



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor			Measurement (dBuV)			Limit (dBuV)			Margin (dB)	
		Peak	QP	AVG	dB	peak	QP	Avg	QP	Avg	QP	Avg	P/F	Comment	
1	0.2500	34.24	22.42	-1.69	9.80	44.04	32.22	8.11	61.75	51.75	-29.53	-43.64	P		
2	0.3180	33.12	23.08	-8.10	9.82	42.94	32.90	1.72	59.76	49.76	-26.86	-48.04	P		
3	0.6740	27.85	14.57	-11.1	9.90	37.75	24.47	-1.27	56.00	46.00	-31.53	-47.27	P		
4	3.8740	21.26	11.14	-4.65	10.00	31.26	21.14	5.35	56.00	46.00	-34.86	-40.65	P		
5	12.8020	43.50	39.99	33.04	10.06	53.56	50.05	43.10	60.00	50.00	-9.95	-6.90	P		
6	25.6020	38.86	40.51	31.81	10.39	49.25	50.90	42.20	60.00	50.00	-9.10	-7.80	P		

Notes:

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

7.3 Radiated Emissions

Test Requirement: 47 CFR Part 15C Section 15.205(b)

Test Method: ANSI C63.10

Test Site: 3m (Semi-Anechoic Chamber)

Limit: All emissions are at least 40 dB below the limits in § 15.209

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Test Setup:

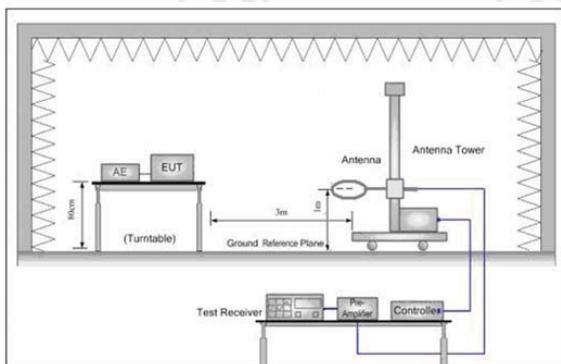


Figure 1. Below 30MHz

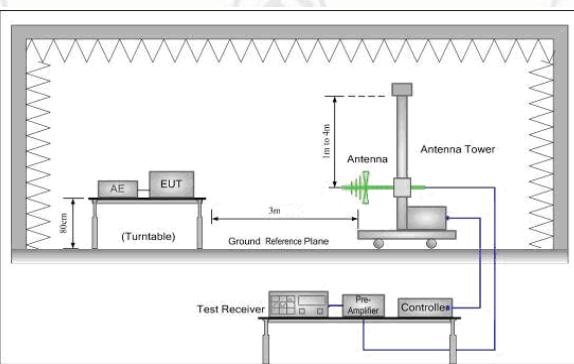


Figure 2. 30MHz to 1GHz

Test Procedure:

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is placed 1m above the ground find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	PK	300
0.490MHz-1.705MHz	24000/F(kHz)	-	PK	30

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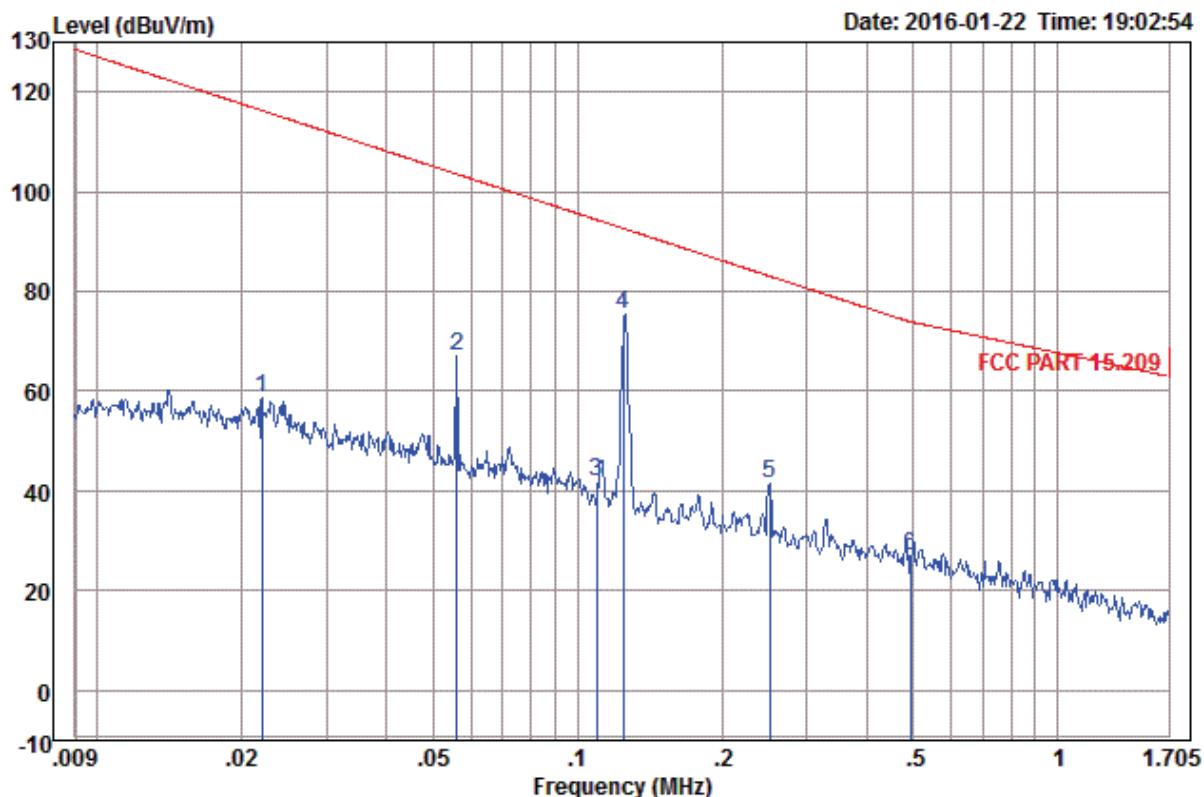
Test Mode: Transmitting mode

Instruments Used: Refer to section 6 for details

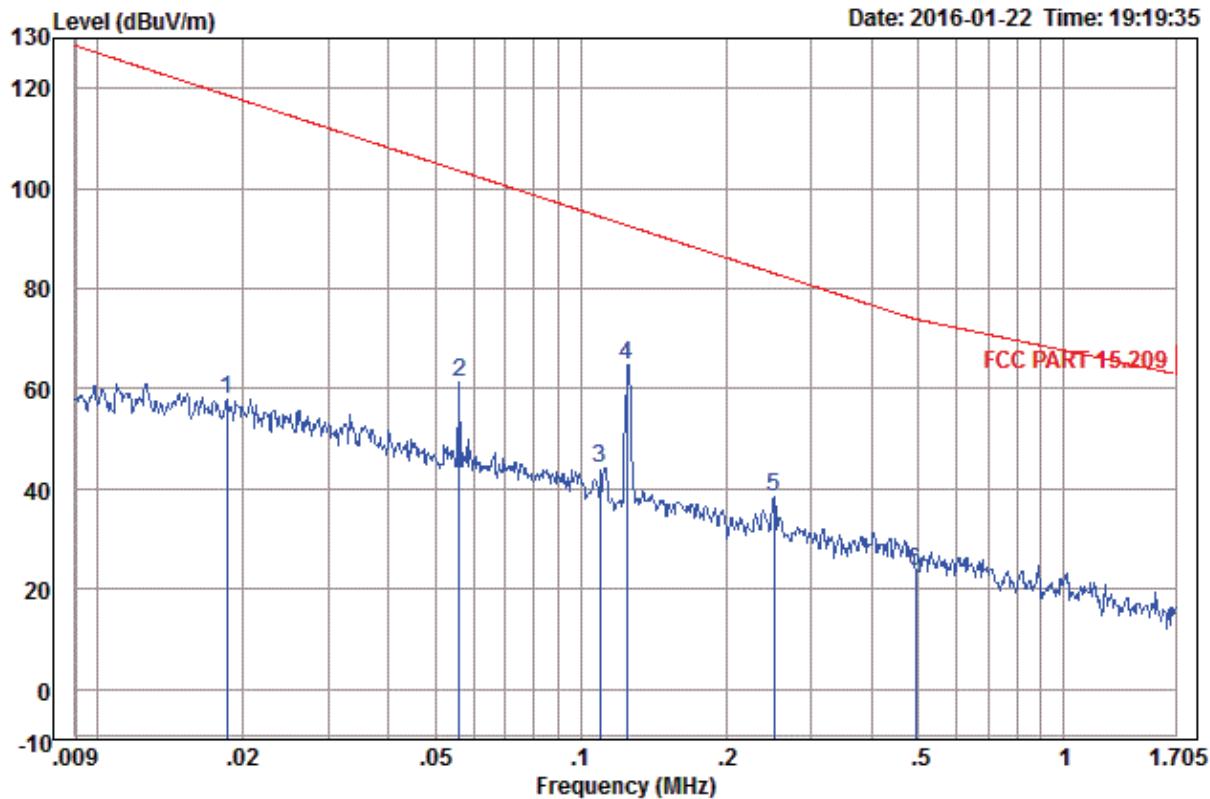
Test Result: Pass

Test data:(125kHz)

9 kHz-1.705MHz



Freq	Ant Factor	Cable	Read	Limit		Over	Over Limit Pol/Phase	Remark
		Loss	Level	Level	Line	dBuV/m		
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.022	15.99	0.05	42.52	58.56	120.73	-62.17	Horizontal Peak
2	0.056	11.64	0.08	55.46	67.18	112.62	-45.44	Horizontal Peak
3	0.110	11.40	0.11	30.50	42.01	106.78	-64.77	Horizontal Peak
4 pp	0.125	11.40	0.11	63.90	75.41	105.67	-30.26	Horizontal Peak
5	0.251	11.30	0.11	30.01	41.42	99.60	-58.18	Horizontal Peak
6	0.495	11.30	0.12	15.47	26.89	73.71	-46.82	Horizontal Peak



	Freq	Ant Factor	Cable Loss	Read Level	Limit Level	Over Line Limit	Over Pol/Phase	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	0.019	16.76	0.05	41.28	58.09	122.23	-64.14	Vertical Peak
2	0.056	11.64	0.08	49.50	61.22	112.62	-51.40	Vertical Peak
3	0.110	11.40	0.11	32.58	44.09	106.78	-62.69	Vertical Peak
4 pp	0.125	11.40	0.11	53.34	64.85	105.67	-40.82	Vertical Peak
5	0.251	11.30	0.11	26.97	38.38	99.60	-61.22	Vertical Peak
6	0.495	11.30	0.12	12.05	23.47	73.71	-50.24	Vertical Peak

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 + Antenna Factor + Cable Factor – Preamplifier Factor

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7.4 Occupied Bandwidth

Test Requirement: 47 CFR Part 15C Section 15.215 (C)

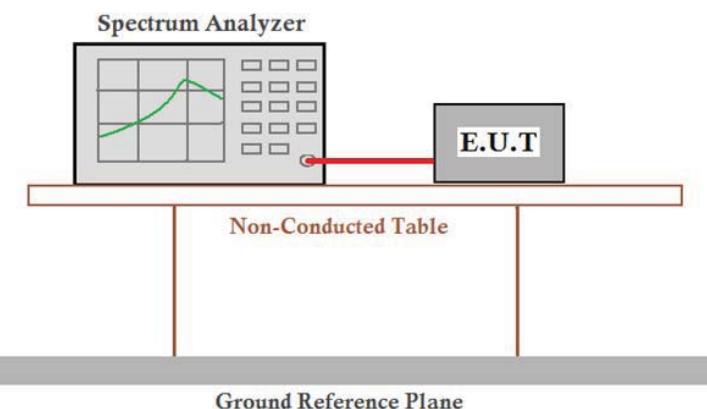
Test Method: ANSI C63.10

Limit: Operation within the band

Requirement :

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that 20dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equip compliance with the 20dB attenuation specification may base on measurement at the intentional radiator's antenna output terminal unless the intentional radiator uses a permanently attached antenna, in which case compliance shall be demonstrated by measuring the radiated emissions.

Test Setup:



Test Mode:

Transmitter mode

Instruments Used:

Refer to section 6 for details

Test Result:

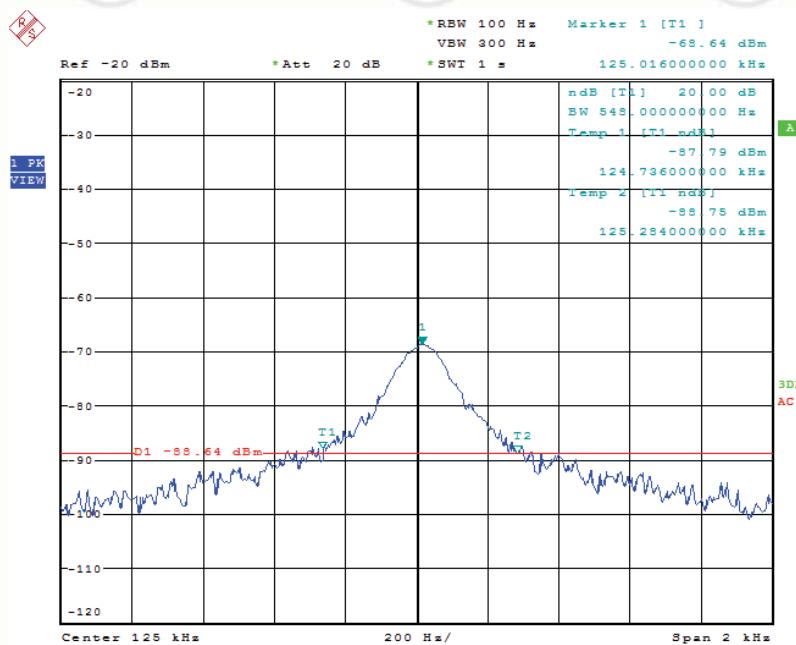
Pass

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Test data:

Measurement Conditions		Peak Frequency (kHz)	Lowest Frequency (kHz)	Highest Frequency (kHz)
T _{normal} 24 °C	V _{normal} 120V	125.284	124.736	125.016



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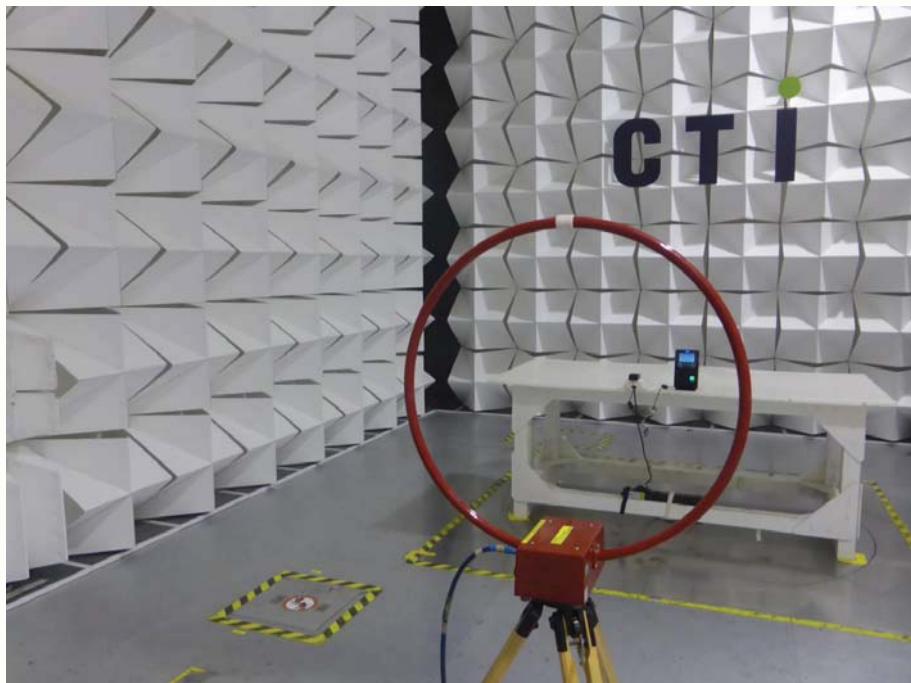
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APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Test Model No.: T-MAX 7



Conducted Emissions



Radiated emission Test Setup-1(9kHz-30MHz)

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APPENDIX 2 PHOTOGRAPHS OF EUT

Test Model No.: T-MAX 7



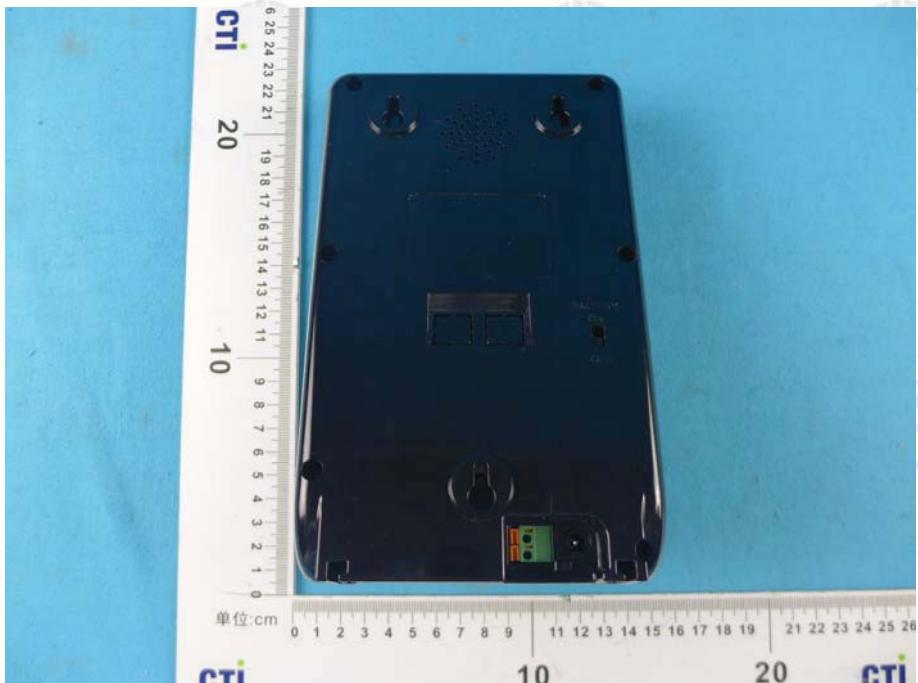
View of Product-1



View of Product-2

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View of Product-3



View of Product-4



View of Product-5



View of Product-6



View of Product-7



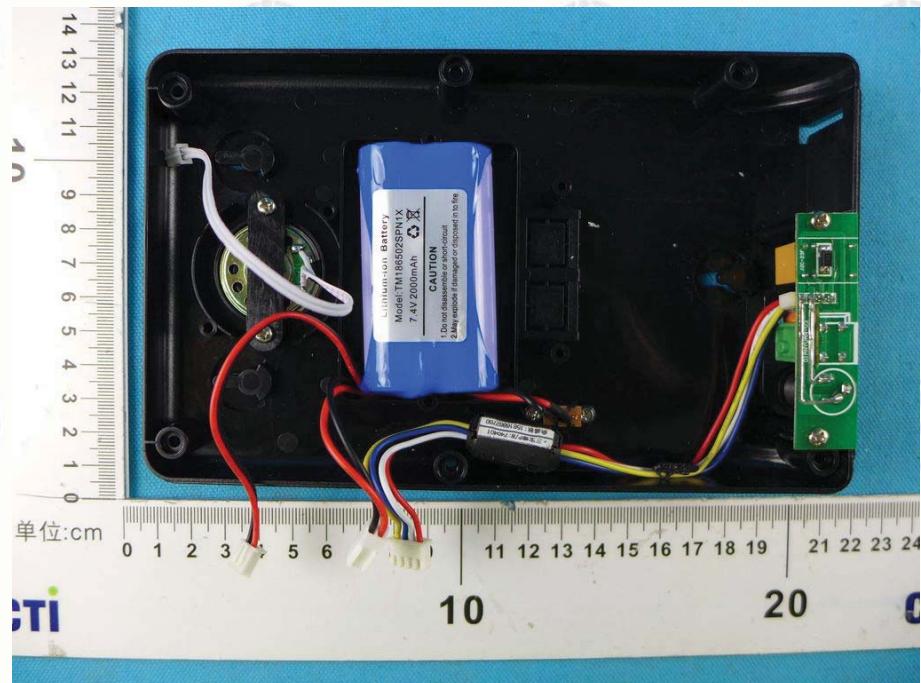
View of Product-8



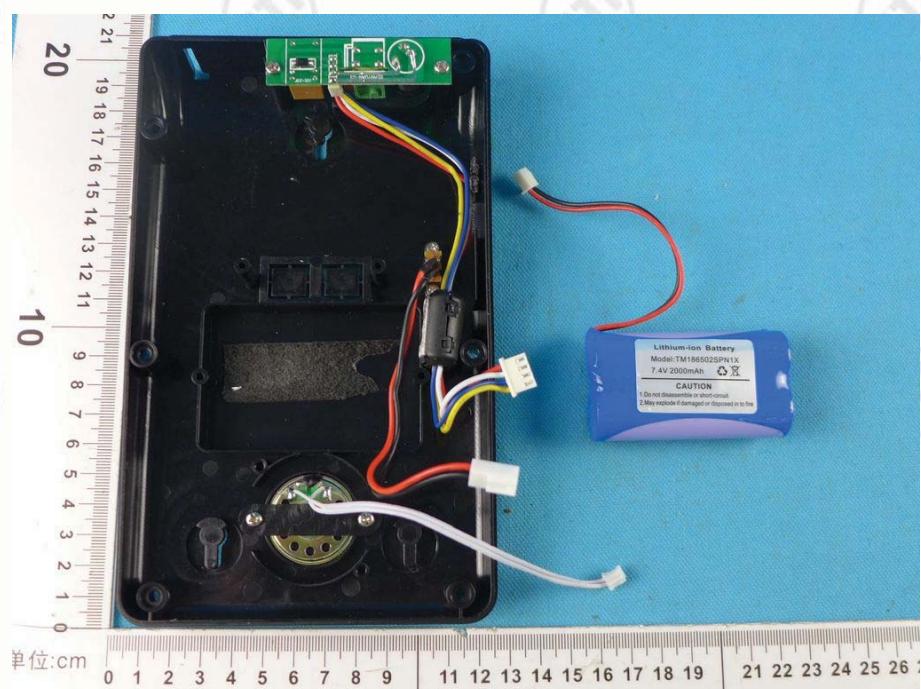
View of Product-9



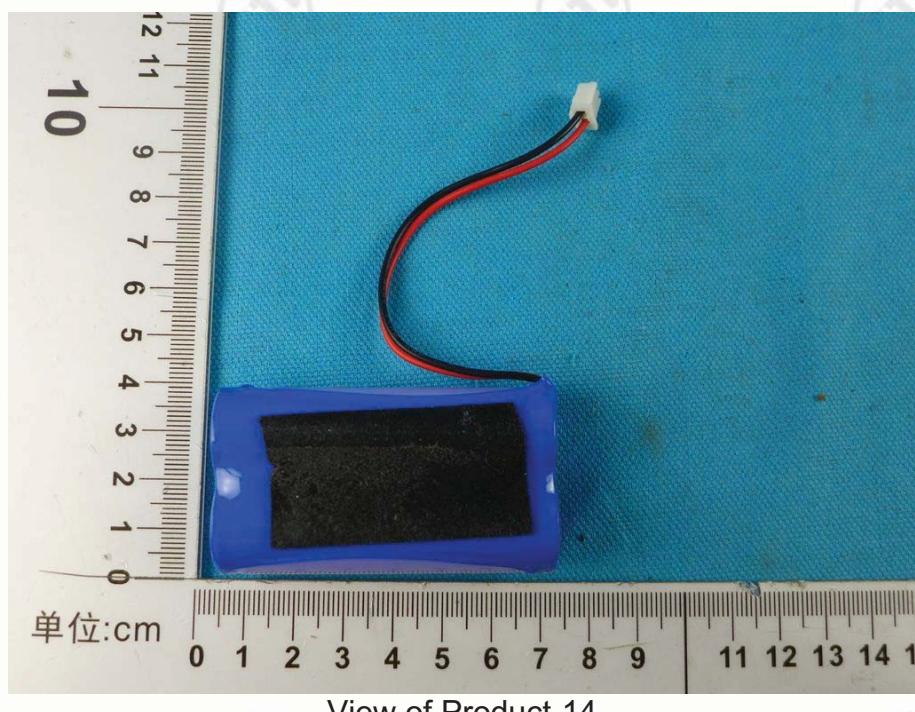
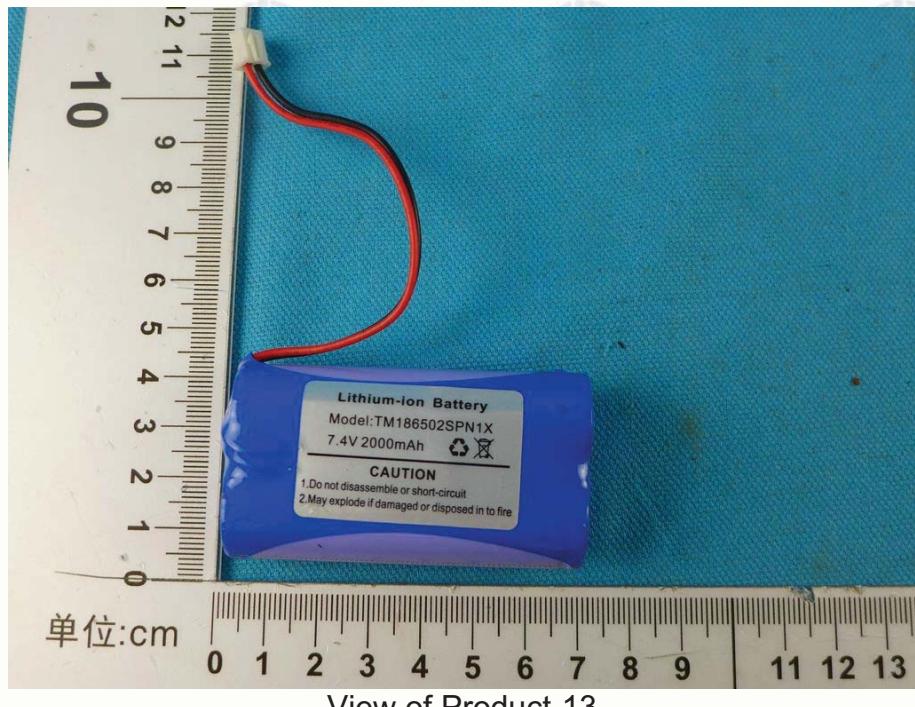
View of Product-10

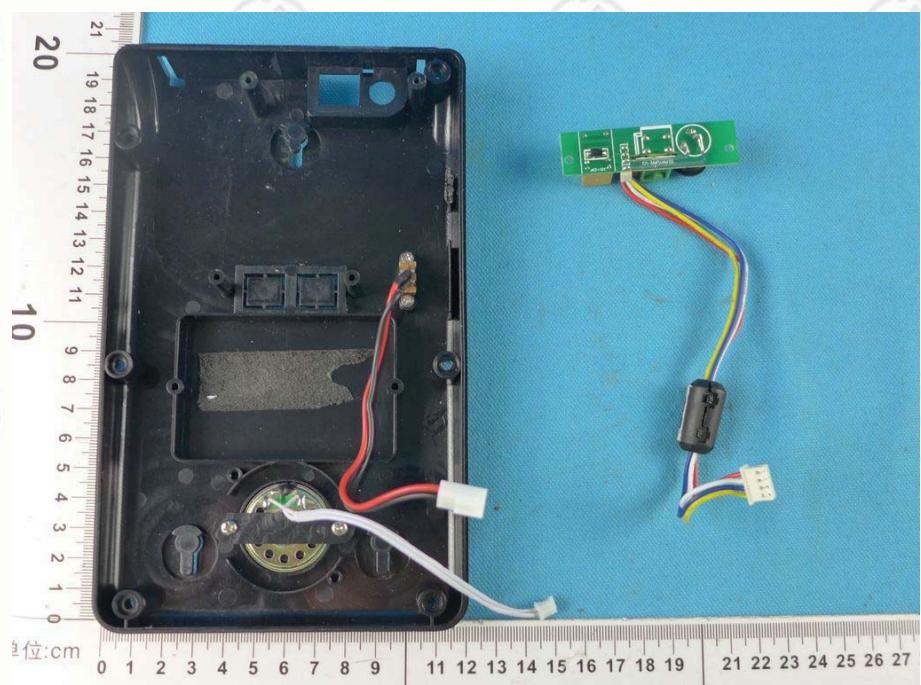


View of Product-11

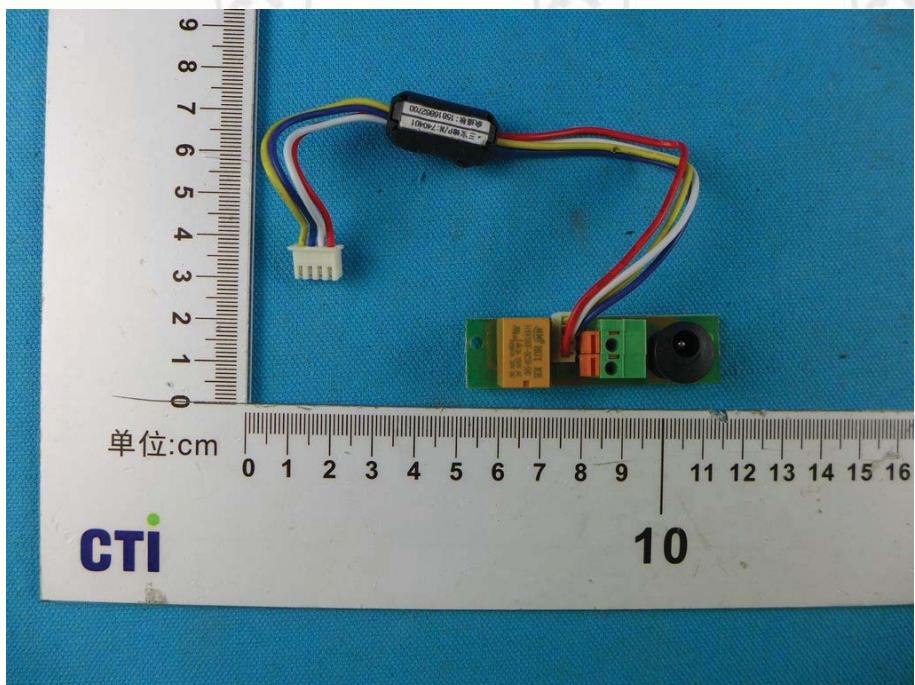


View of Product-12

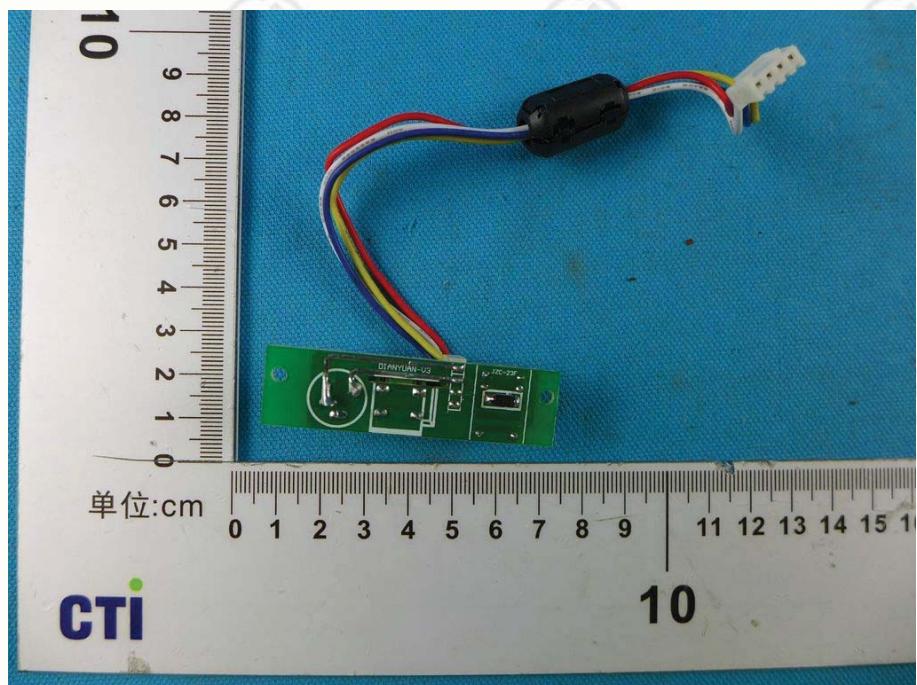




View of Product-15



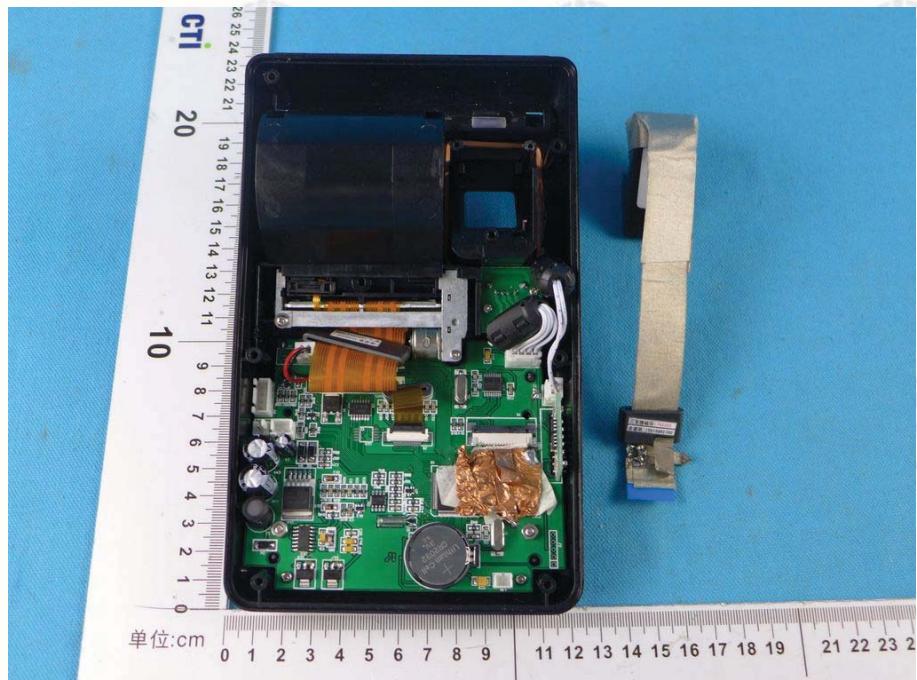
View of Product-16



View of Product-17



View of Product-18



View of Product-19



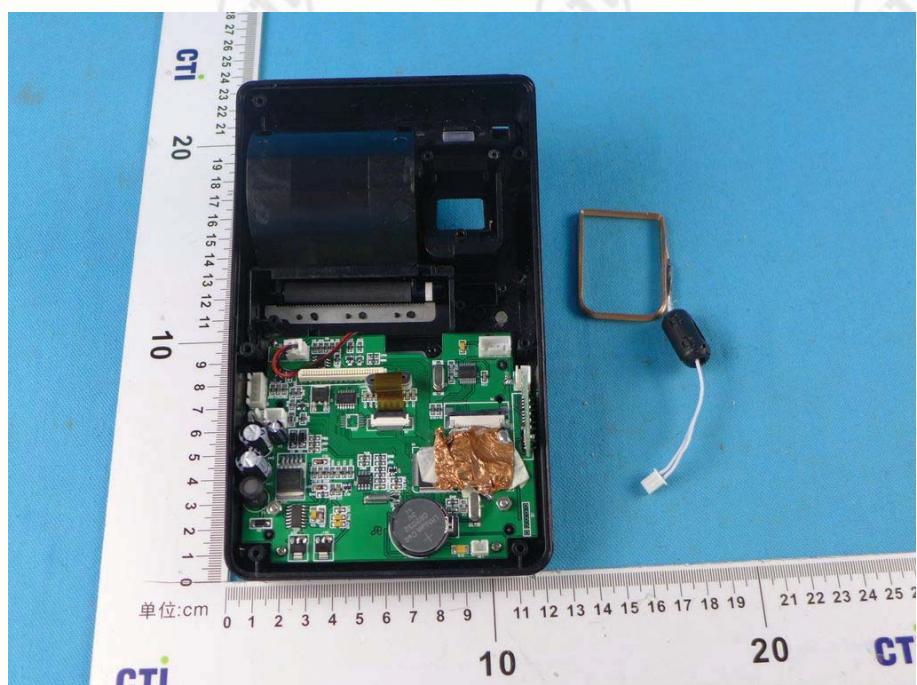
View of Product-20

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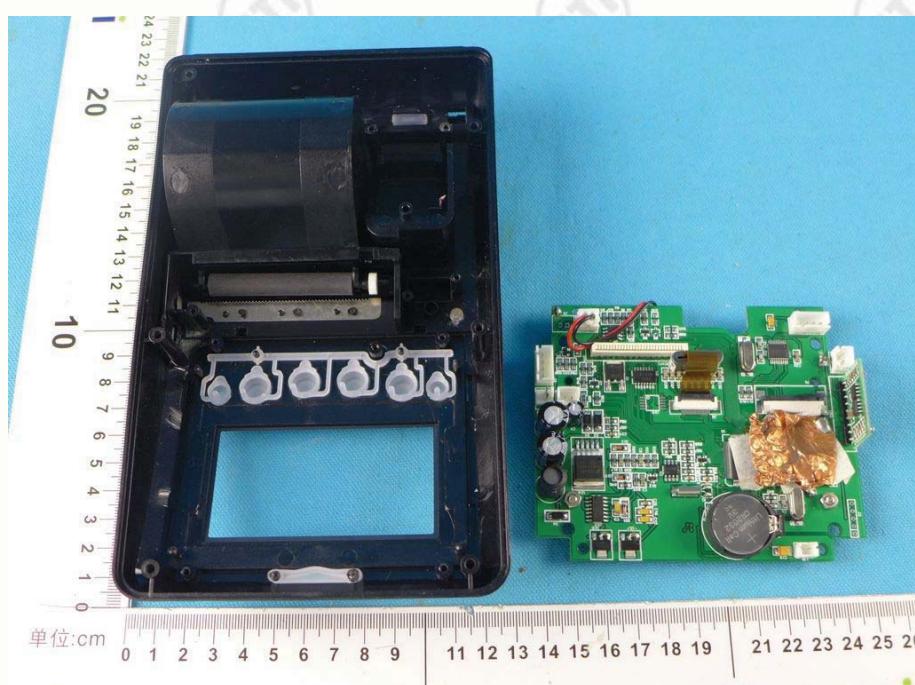
View of Product-21



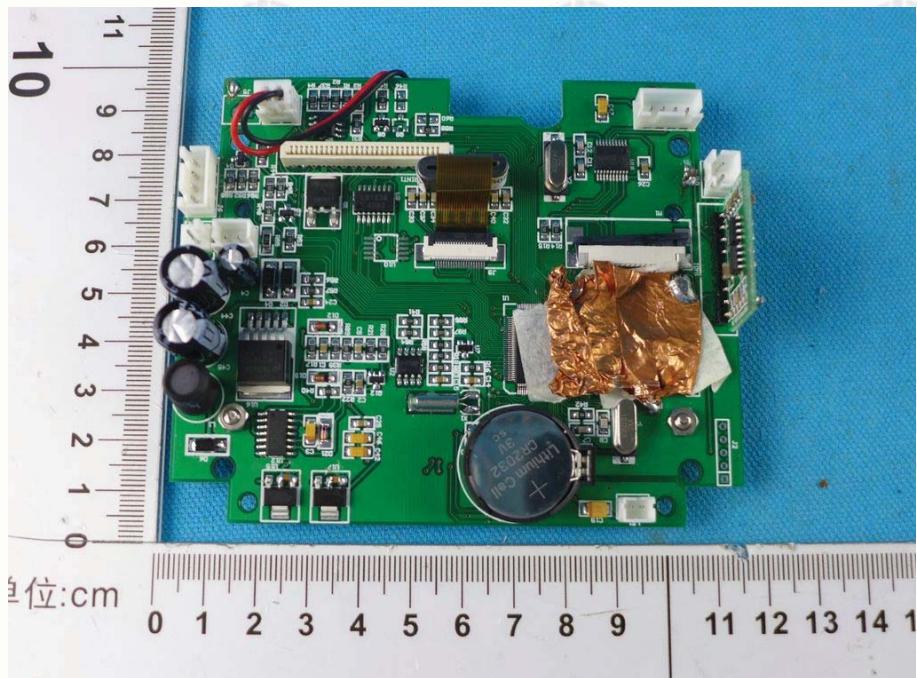
View of Product-22



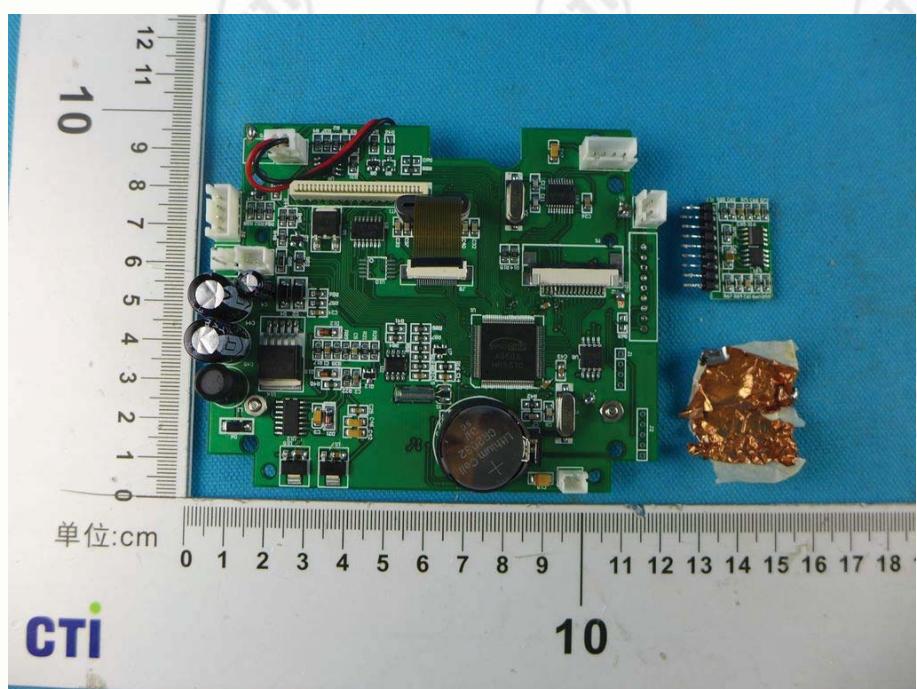
View of Product-23



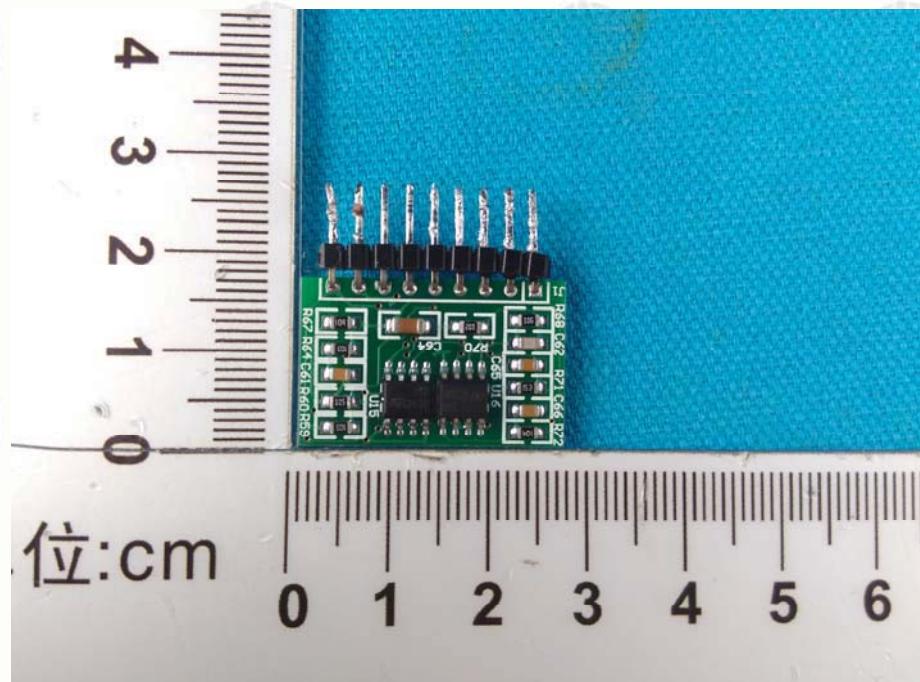
View of Product-24



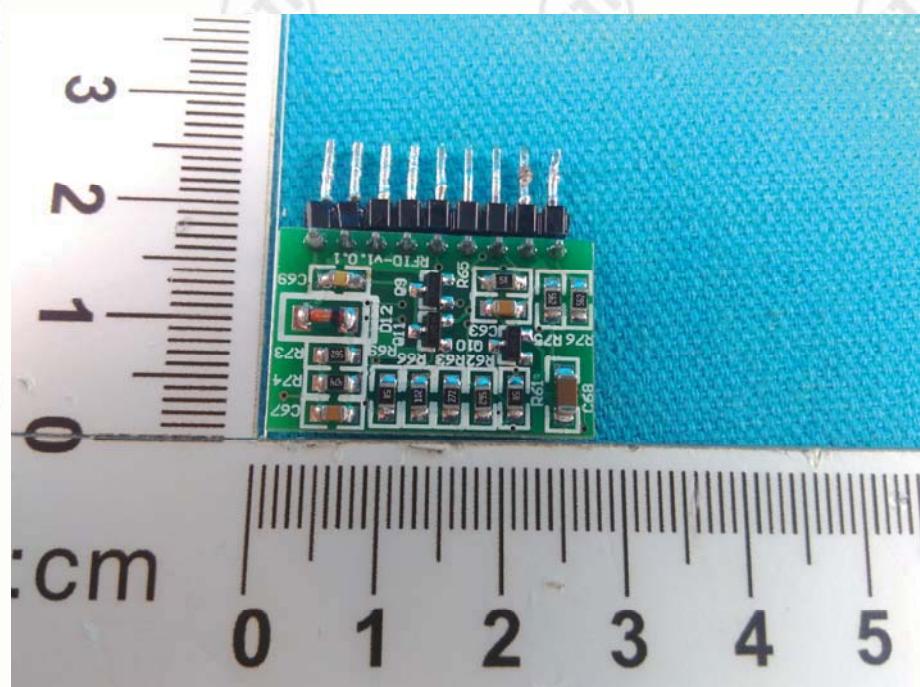
View of Product-25



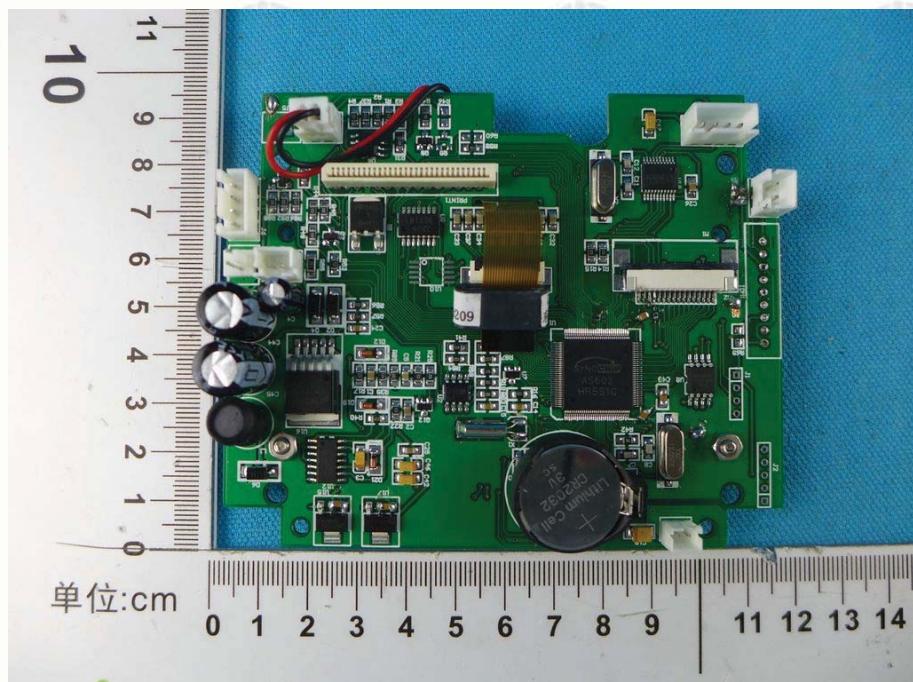
View of Product-26



View of Product-27



View of Product-28



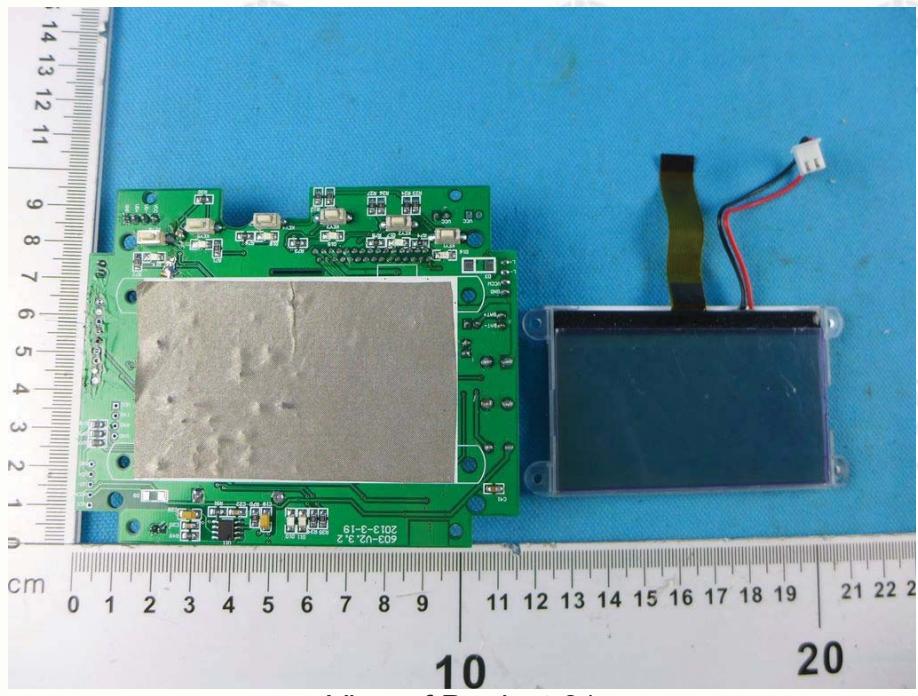
View of Product-29



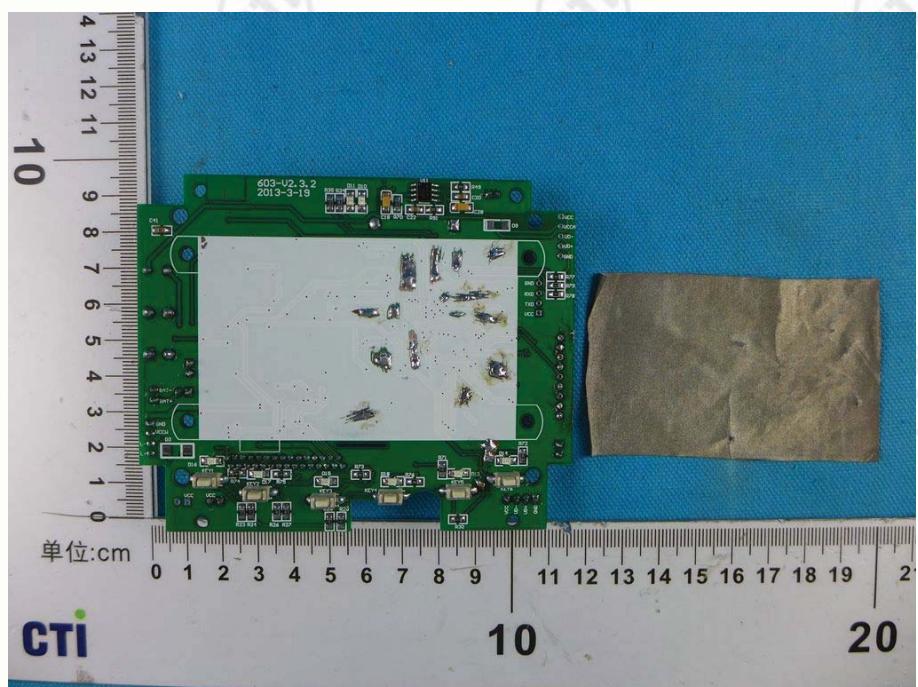
View of Product-30

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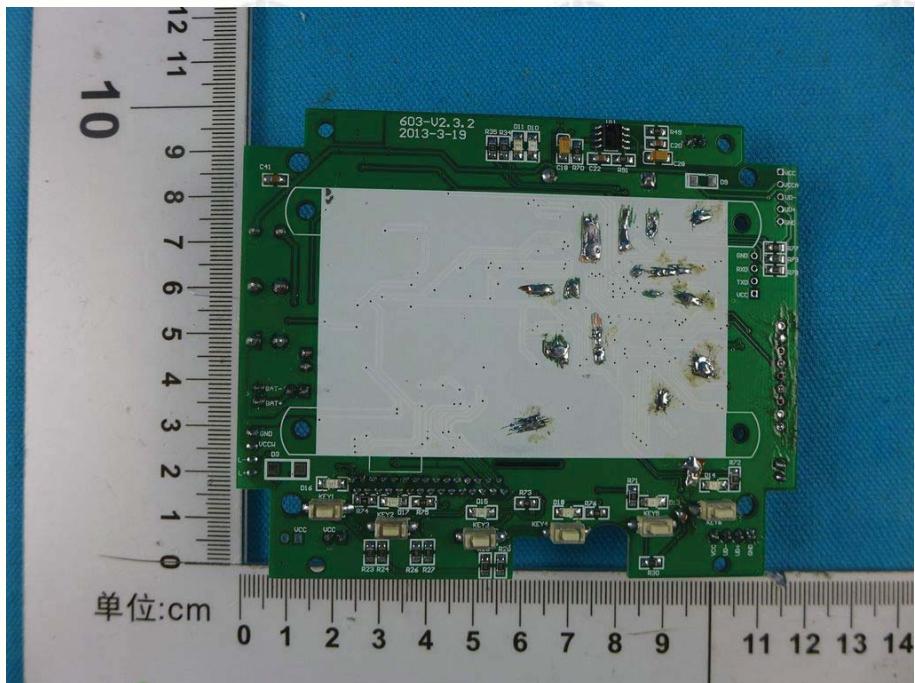
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View of Product-31



View of Product-32



View of Product-33



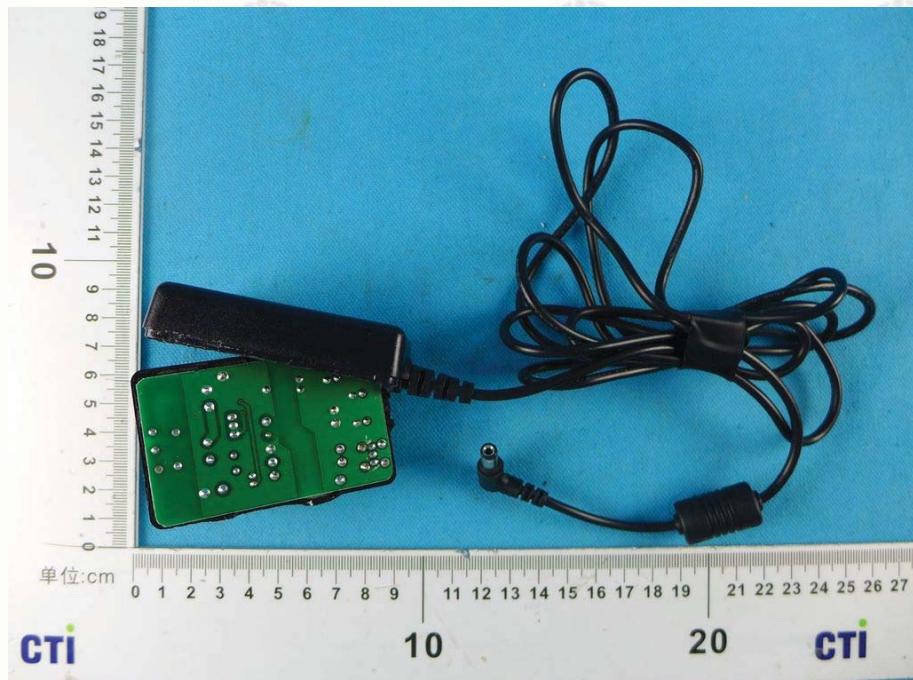
View of Product-34(Adapter)



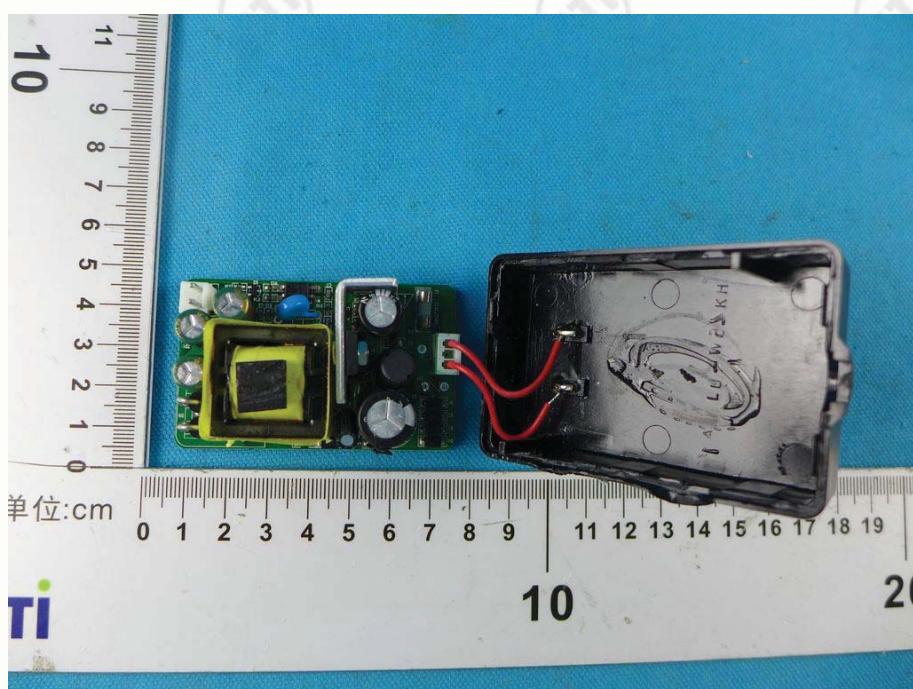
View of Product-35(Adapter)



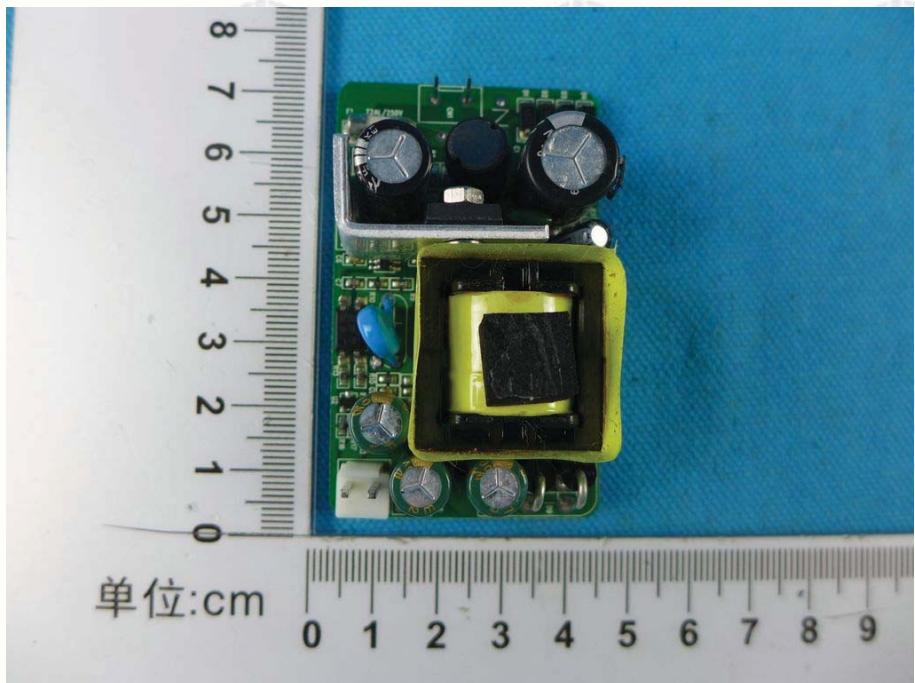
View of Product-36(Adapter)



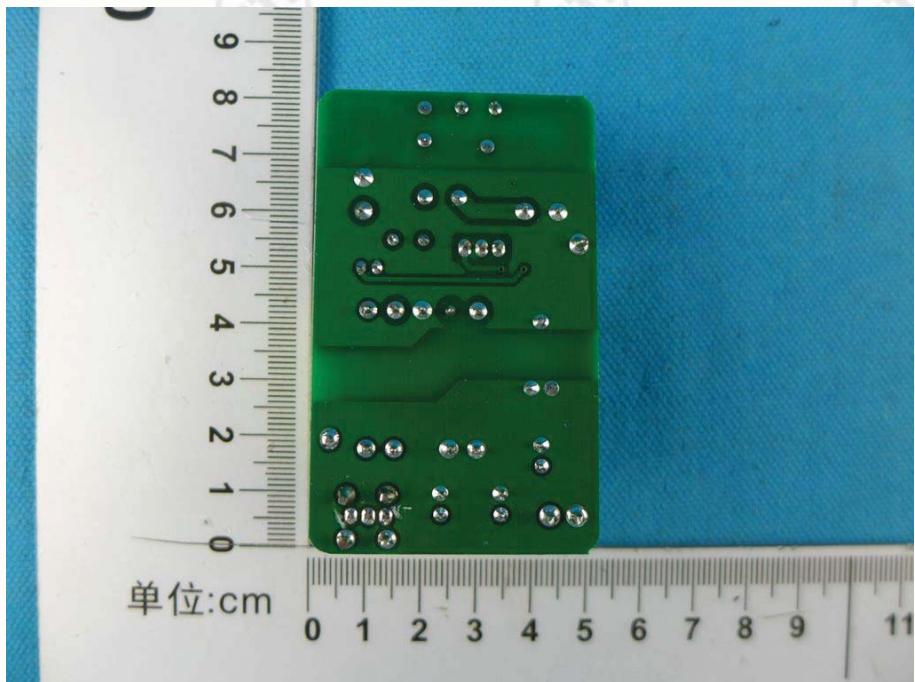
View of Product-37(Adapter)



View of Product-38(Adapter)



View of Product-39(Adapter)



View of Product-40(Adapter)

*** End of Report ***

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