TEST REPORT

FCC ID: 2AQMG-WS01

Product: Wireless Fast Charger

Model No.: WS01

Additional No.: WS01-X(X= "0-9" , "A-Z" for marketing purpose)

Trade Mark: SOLY TECH Apexgaming

Report No.: FCC18070064A

Issued Date: August 16, 2018

Issued for:

Solytech Enterprise Corporation

1-3F, No.18, WuQuan 7 Road, WuGu District, 24890 New Taipei City, Taiwan

Issued By:

World Standardization Certification & Testing Group Co., Ltd.
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1GENERAL INFORMATION

Product:	Wireless Fast Charger
Model No.:	WS01
Additional Model:	WS01-X(X="0-9","A-Z" for marketing purpose)
Applicant:	Solytech Enterprise Corporation
Address:	1-3F, No.18, WuQuan 7 Road, WuGu District, 24890 New Taipei City, Taiwan
Manufacturer:	Solytech Enterprise Corporation
Address:	1-3F, No.18, WuQuan 7 Road, WuGu District, 24890 New Taipei City, Taiwan
Data of receipt:	July 25, 2018
Date of Test:	July 26, 2018 to August 15, 2018
Applicable Standards:	FCC CFR Title 47 Part 18

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Pu Shixi **Date:** August 16, 2018
(Pu Shixi)

Check By: Qin Shuiquan **Date:** August 16, 2018
(Qin Shuiquan)

Approved By: Wang Fengbing **Date:** August 16, 2018
(Wang Fengbing)

2 GENERAL DESCRIPTION OF EUT

Equipment Type:	Wireless Fast Charger
Test Model:	WS01
Additional Model:	WS01-X(X="0-9","A-Z" for marketing purpose)
Applicant:	Solytech Enterprise Corporation
Address:	1-3F, No.18, WuQuan 7 Road, WuGu District, 24890 New Taipei City, Taiwan
Manufacturer:	Solytech Enterprise Corporation
Address:	1-3F, No.18, WuQuan 7 Road, WuGu District, 24890 New Taipei City, Taiwan
Brand Name:	SOLY TECH Apexgaming
Hardware version:	N/A
Software version:	N/A
Extreme Temp. Tolerance:	-40℃ to +85℃
Power supply:	Input: DC5V/2A,9V/1.8A Output: DC5V/1A,9V/1.2A
Operating Frequency:	110-205kHz

Model difference:

WS01,WS01-X only for the marketing purpose.

3 Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at **Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group Co., Ltd**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Registration Number: 366353

ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	**NVLAP (The certificate registration number is NVLAP LAB CODE:600142-0)**
Japan	**VCCI (The certificate registration number is C-4790, R-3684, G-837)**
Canada	**INDUSTRY CANADA (The certificated registration number is 7700A-1)**
China	**CNAS (The certificated registration number is L3732)**

Copies of granted accreditation certificates are available for downloading from our web site, **http://www.wsct-cert.com**

TEST DESCRIPTION

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** %。

No.	Item	Uncertainty
1	Conducted Emission Test	±3.2dB
2	All emissions,radiated(<1G)	±4.7dB
3	Temperature	±0.5°C
4	Humidity	±2%

CONFIGURATION OF SYSTEM UNDER TEST

(EUT: Wireless Fast Charger)

DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	/	N/A	/	N/A

Note:
(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.
(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC 47 CFR Part 18			
Standard Section	**Test Item**	**Judgment**	**Remark**
§18.307	Conducted Emission	PASS	
§18.305	Radiated Emissions	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

4MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
EMI Test Receiver	R&S	ESCI	100005	08/19/2017	08/18/2018
LISN	AFJ	LS16	16010222119	08/19/2017	08/18/2018
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2017	08/18/2018
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2017	08/18/2018
Coaxial cable	Megalon	LMR400	N/A	08/12/2017	08/11/2018
GPIB cable	Megalon	GPIB	N/A	08/12/2017	08/11/2018
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2017	10/12/2018
Pre-Amplifier	CDSI	PAP-1G18-38	--	10/13/2017	10/12/2018
Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2017	09/12/2018
9*6*6 Anechoic	--	--	--	08/21/2017	08/20/2018
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	09/13/2017	09/12/2018
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2017	08/22/2018
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/25/2017	04/24/2018
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	08/21/2017	08/20/2018
Loop Antenna	EMCO	6502	00042960	08/22/2017	08/21/2018
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2017	08/18/2018

5CONDUCTED EMISSIONS

5.1 Applicable Standard

The specification used was with the 47 CFR Part 18(150kHz-30MHz)
.

5.2 Test Method

FCC OST/MP-5:1986

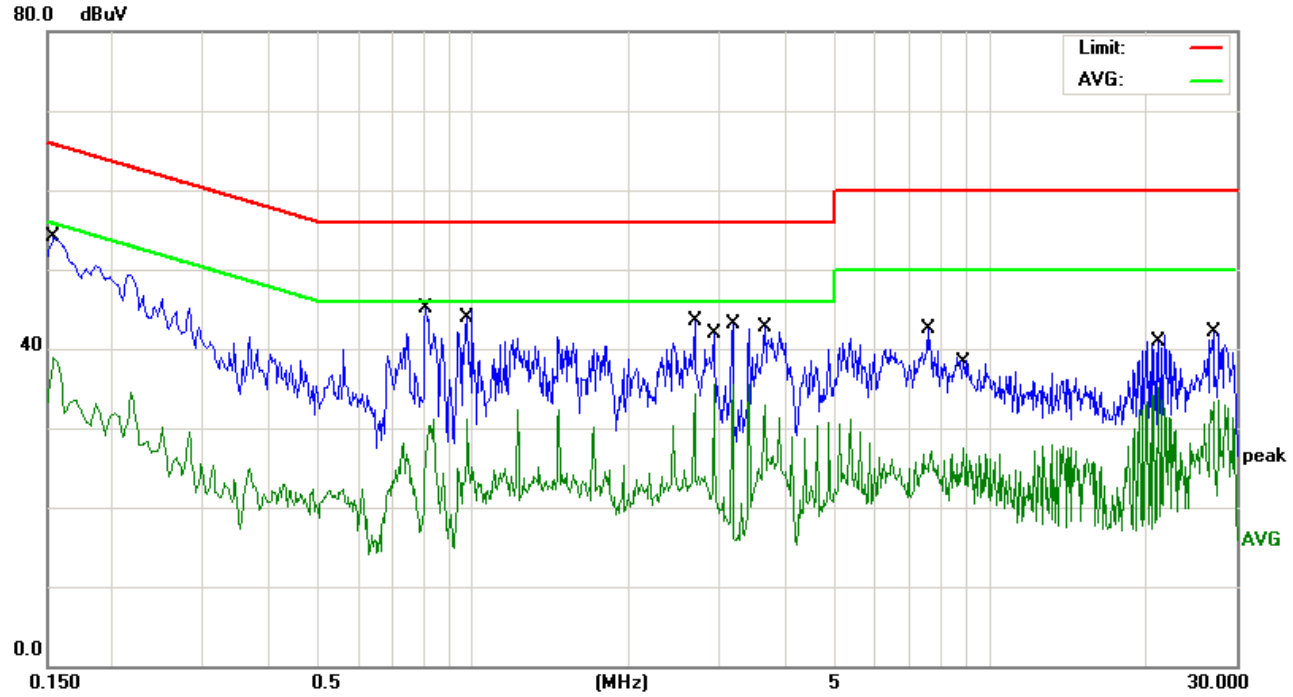
5.3Test Conditions

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	101.5kPa
Voltage	120V/60Hz

Test mode 1:Normal Working No load
Test mode 2:Test were conducted in both load modes and only the worst case is submitted.

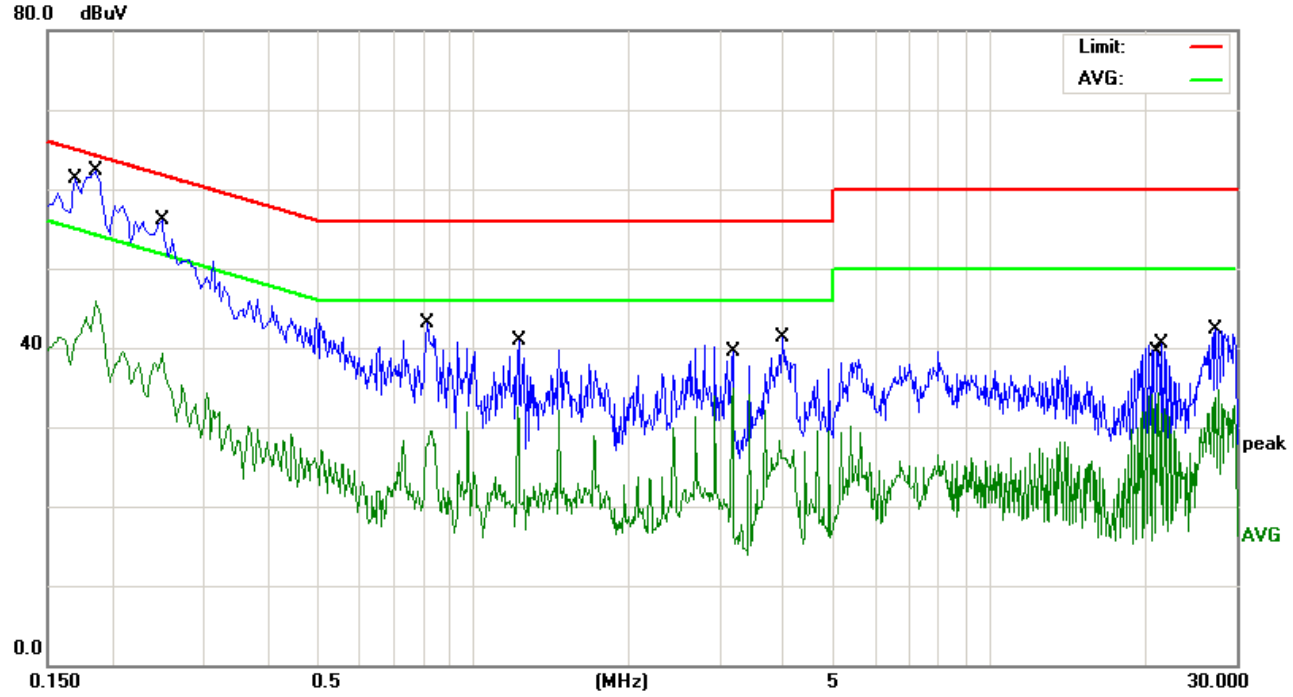
5.4 TEST RESULTS

Mode2 Line(DC 9V, 1.8A):



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1539	36.19	10.44	46.63	65.78	-19.15	QP
2		0.1539	28.52	10.44	38.96	55.78	-16.82	AVG
3		0.8100	30.29	10.36	40.65	56.00	-15.35	QP
4		0.9780	20.77	10.34	31.11	46.00	-14.89	AVG
5		2.6860	26.87	10.28	37.15	56.00	-18.85	QP
6	*	2.9300	25.25	10.27	35.52	46.00	-10.48	AVG
7		3.1740	25.19	10.27	35.46	46.00	-10.54	AVG
8		3.6620	26.18	10.26	36.44	56.00	-19.56	QP
9		7.5780	22.71	10.21	32.92	60.00	-27.08	QP
10		8.9100	17.25	10.20	27.45	50.00	-22.55	AVG
11		21.2340	24.91	10.11	35.02	50.00	-14.98	AVG
12		27.0900	24.79	10.10	34.89	60.00	-25.11	QP

N:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1700	37.67	10.44	48.11	64.96	-16.85	QP
2		0.1860	40.46	10.44	50.90	64.21	-13.31	QP
3	*	0.1860	35.50	10.44	45.94	54.21	-8.27	AVG
4		0.2500	28.86	10.43	39.29	51.75	-12.46	AVG
5		0.8139	28.16	10.36	38.52	56.00	-17.48	QP
6		1.2220	22.23	10.33	32.56	46.00	-13.44	AVG
7		3.1780	24.61	10.27	34.88	46.00	-11.12	AVG
8		3.9780	20.96	10.25	31.21	56.00	-24.79	QP
9		21.2540	24.14	10.11	34.25	50.00	-15.75	AVG
10		21.4980	15.29	10.11	25.40	60.00	-34.60	QP
11		27.3580	18.80	10.10	28.90	60.00	-31.10	QP
12		27.6060	24.51	10.10	34.61	50.00	-15.39	AVG

6 RADIATED EMISSIONS

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 9KHz-30 MHz
Measurement Distance: 3m

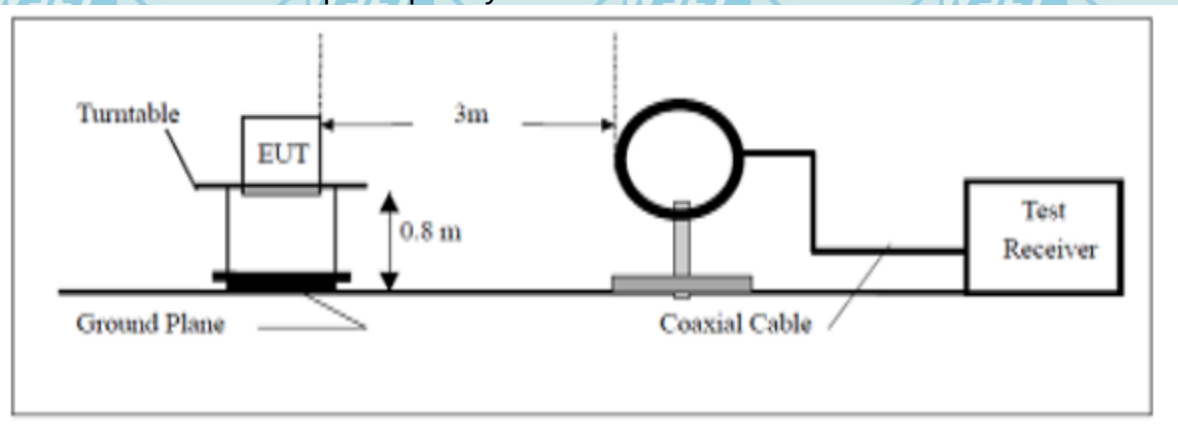
6.1 Environmental Conditions

Temperature:	24°C
Relative Humidity:	54%
ATM Pressure:	101.5kPa

Test mode 1:Normal Working No load
Test mode 2:Test were conducted in both load modes and only the worst case is submitted.

6.2 Radiated Test Setup

Radiated Emission Test-Up Frequency Below 30MHz



6.3 Radiated Emission Limit

Field strength limits：§18.305.

Remark: Measured at antenna position 0 degree and 90 degree, recorded worst case at 90 degree.

6.4 Test result:

The test was performed at a 3m test site. According to below formulate and the test data at 3m test distance,

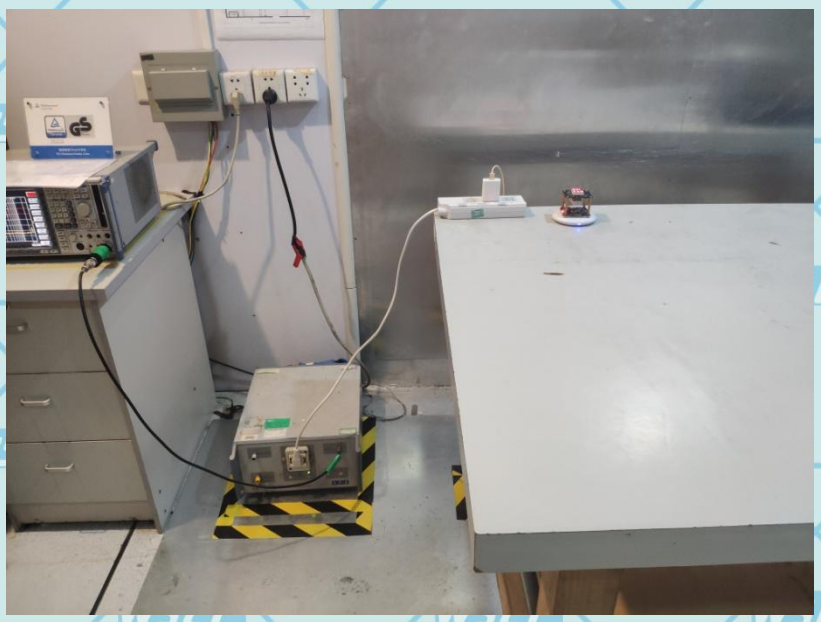
L_{300} / L_3= D_3/ D_{300}

The level at 300m test distance is

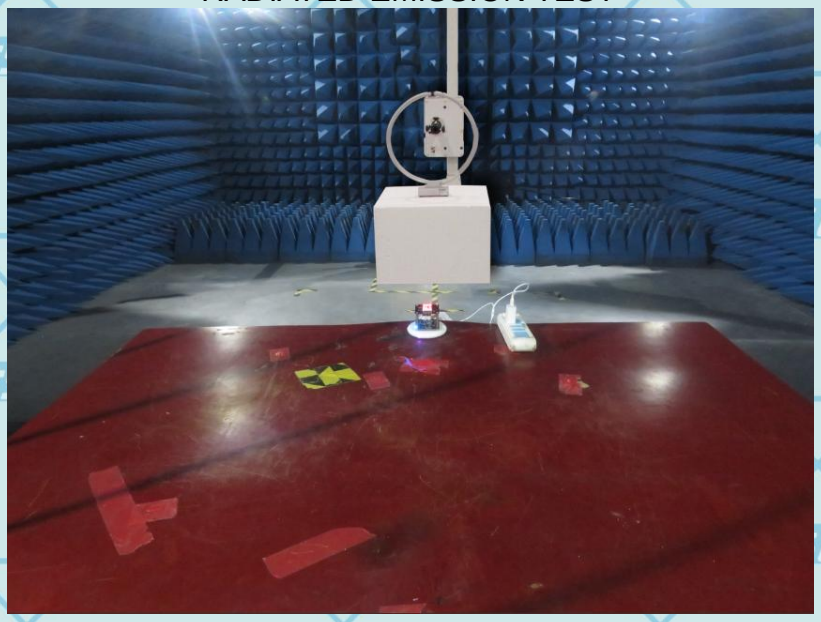
Frequency (MHz)	Level @ 3m (dBuV/m)	Level @ 300m (dBuV/m)	Limit @ 300m (dBuV/m)	Margin (dB)
0.01	48.21	8.21	23.52	-15.31
0.03	47.31	7.31	23.52	-16.21
0.05	47.14	7.14	23.52	-16.38
0.06	48.21	8.21	23.52	-15.31
0.15	52.86	12.86	23.52	-10.66
0.17	51.75	11.75	23.52	-11.77
0.25	47.63	7.63	23.52	-15.89
0.51	39.84	-0.16	23.52	-23.68
0.92	38.36	-1.64	23.52	-25.16
2.62	28.24	-11.76	23.52	-35.28
4.68	25.35	-14.65	23.52	-38.17
27.34	11.74	-28.26	23.52	-51.78

7 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST



8 PHOTOGRAPHS OF EUT

Appearance photograph of EUT

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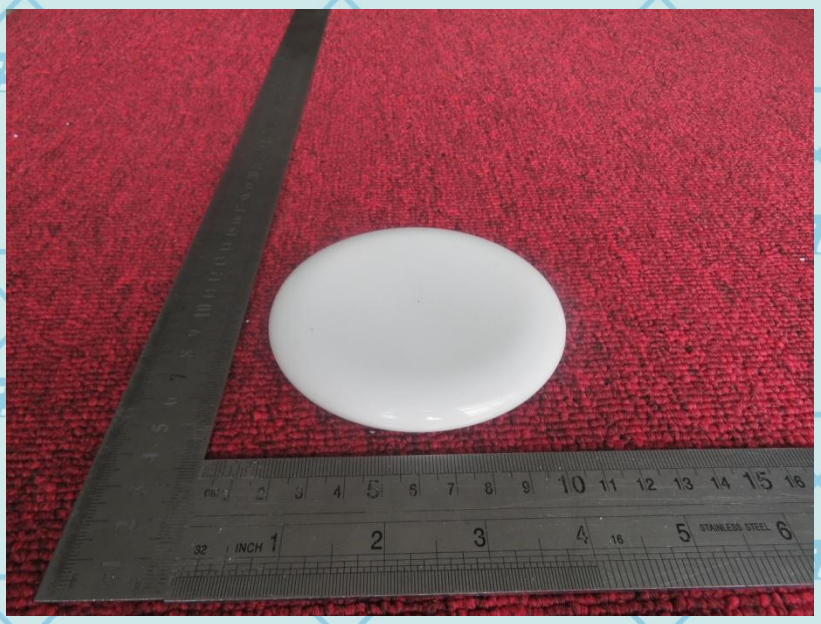
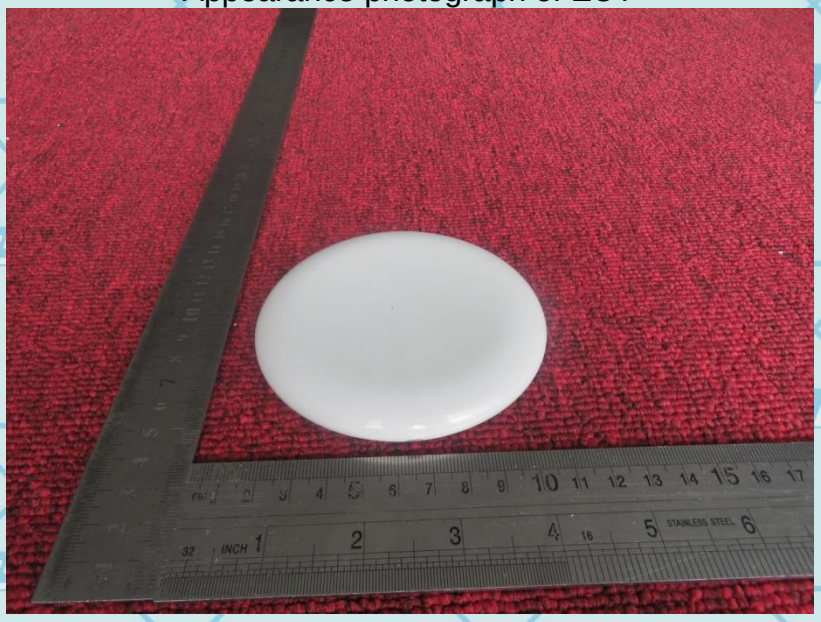
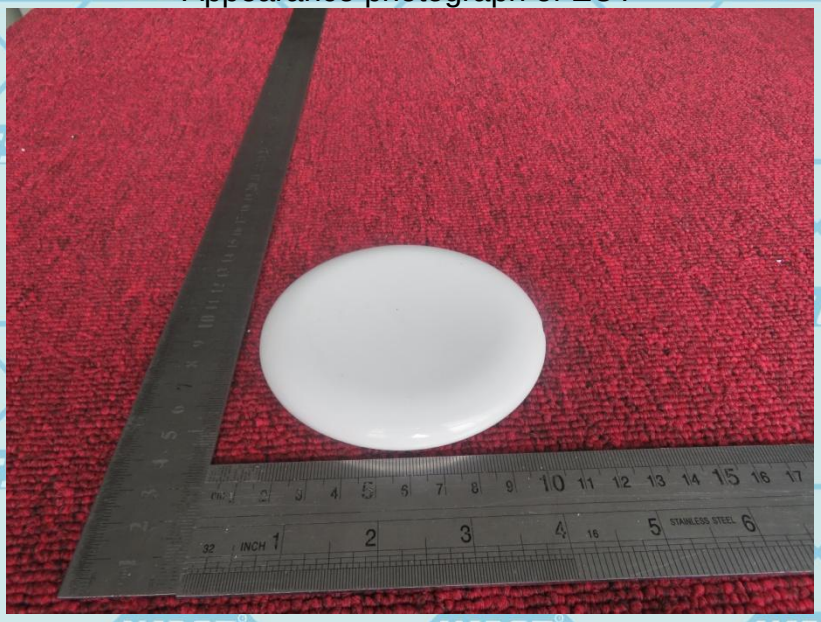


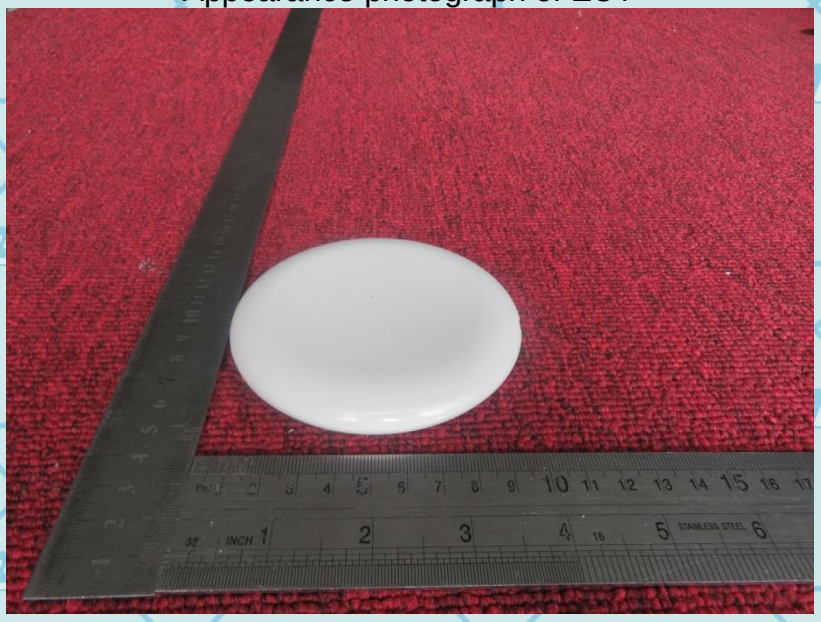
Appearance photograph of EUT



Appearance photograph of EUT

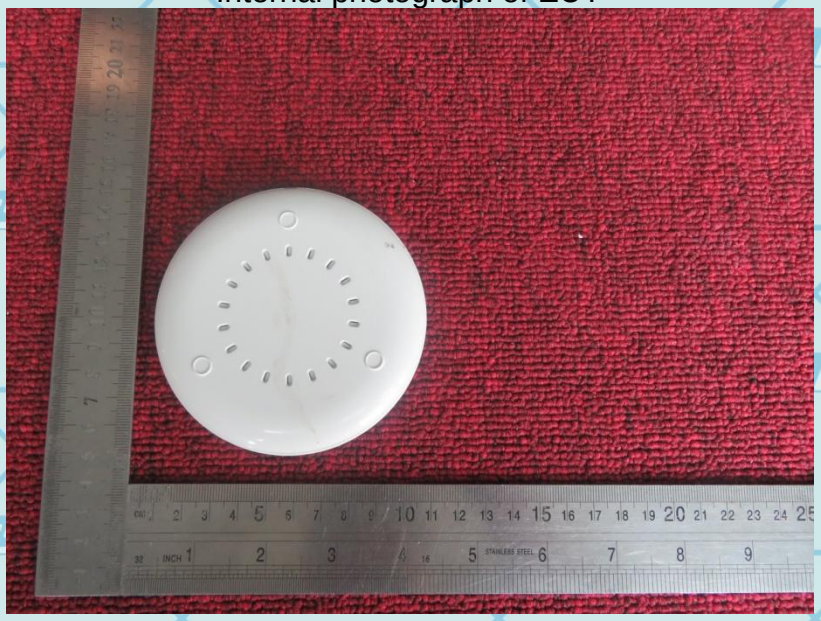


Appearance photograph of EUT

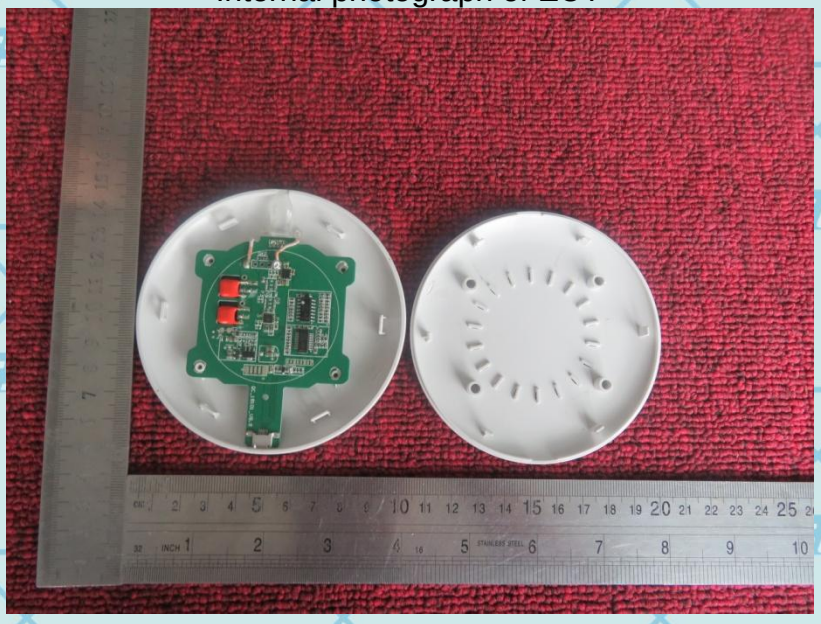


Internal photograph of EUT

Internal photograph of EUT



Internal photograph of EUT



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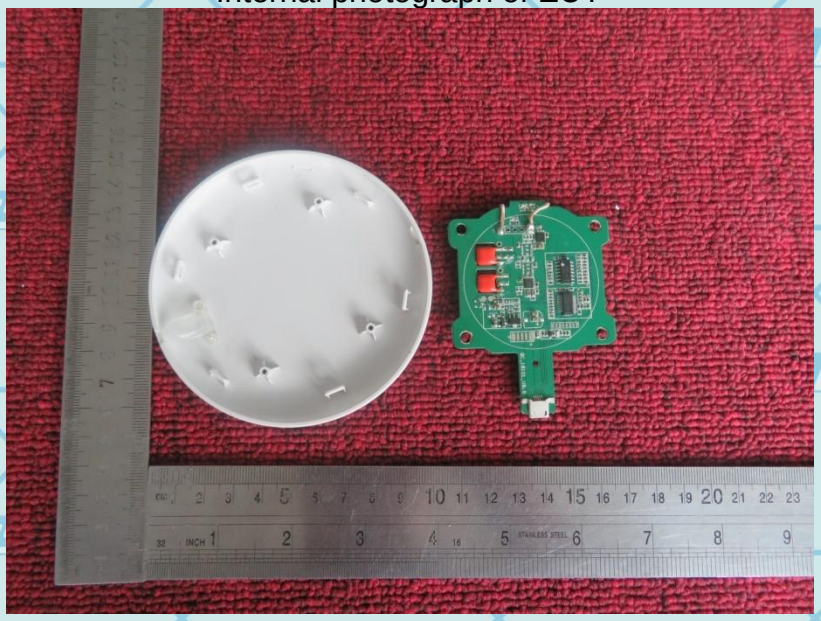
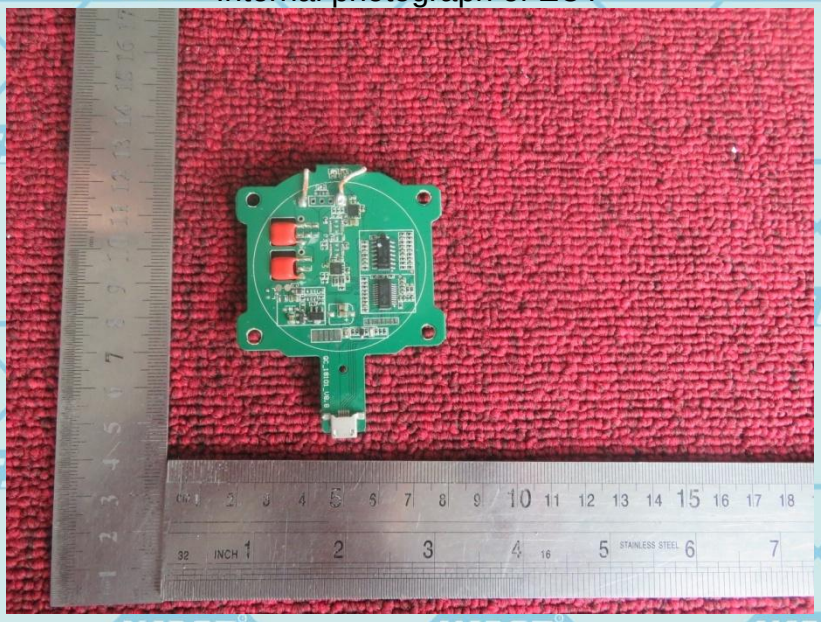
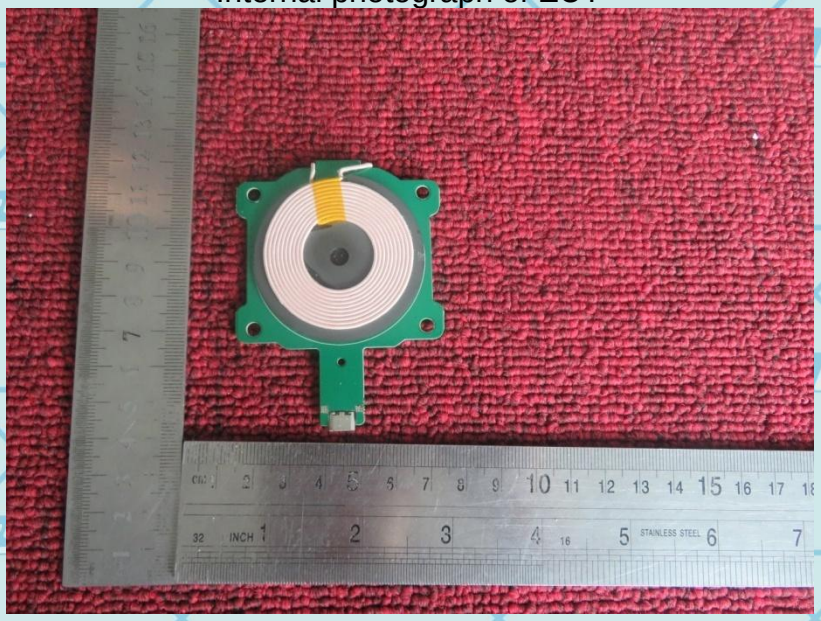


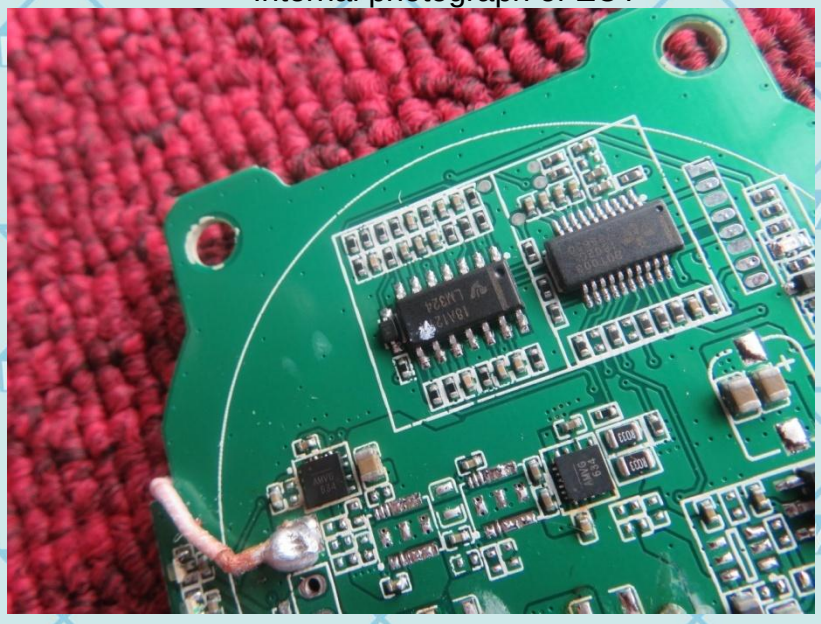
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



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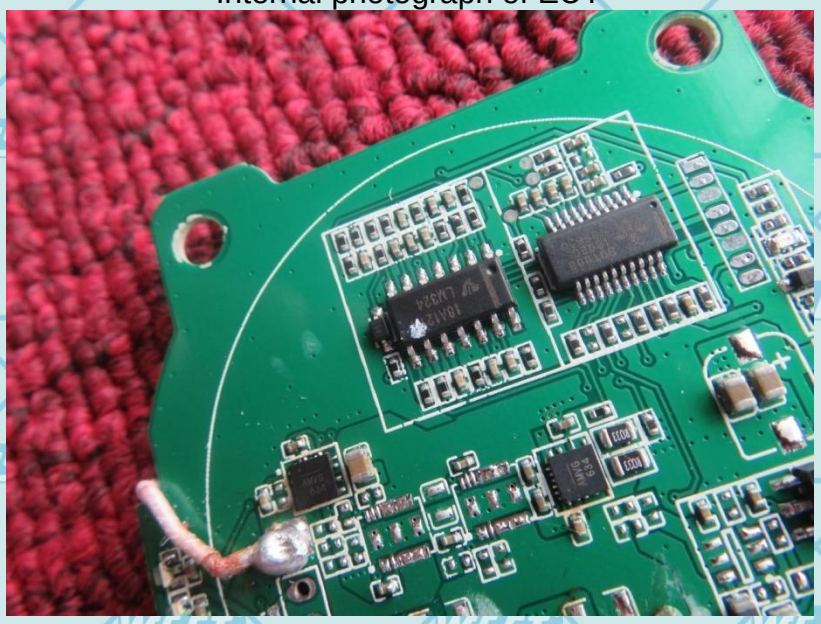

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