TEST REPORT

Application No.:	SHEM2109010893AT
Applicant:	Shanghai Eastimage Equipment Co.,ltd
Address of Applicant:	No.111,zhiye road,pudong new district, shanghai,P.R.C
Manufacturer:	Shanghai Eastimage Equipment Co.,ltd
Address of Manufacturer:	No.111,zhiye road,pudong new district, shanghai,P.R.C
Equipment Under Test (EUT):	
EUT Name:	Walk-through body detector equipment
Model No.:	EI-MD3000,EI-MD2000,EI-MD2000A,EI-MD2000B,EI-MD2000C,EI-MD2000D,EI-MD3000A,EI-MD3000B,EI-MD3000C,EI-MD3000D,EI-MD3000E,EI-V1000,EI-V2000,EI-V3000,EI-V4000,EI-V5000,EI-1800,EI-VPS80200,EI-VMW80200,EI-MD3000TA,EI-MD3000TB,EI-MLT1000A,EI-MLT1000B,EI-MLT2000A,EI-MLT2000B,EI-MLT3000A,EI-MLT3000B,EX-ITM1000¤
¤	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) :	EN 55011:2016+A2:2021
	EN IEC 61000-3-2:2019
	EN 61000-3-3:2013+A1:2019
	EN IEC 61000-6-2:2019
Date of Receipt:	2020-10-23
Date of Test:	2020-10-10 to 2020-10-26
Date of Issue:	2021-09-30
Test Result:	**Pass***

* In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

CE

Parlam Zhan
E&E Section Manager

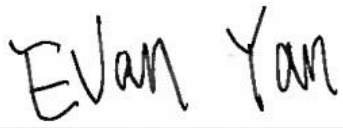
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record			
Version	**Description**	**Date**	**Remark**
00	Update Standard	2021-09-30	Based on SHEM200900835901

Authorized for issue by:				
				
		Evan Yan / Project Engineer		
				
		Bruce Tang / Reviewer		

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2 Test Summary

Emission Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Conducted Emissions at Mains Terminals (150kHz-30MHz)	EN 55011:2016+A2:2021	EN 55011:2016+A2:2021	Group 1 Class A	Pass
Radiated Emissions (30MHz-1GHz)	EN 55011:2016+A2:2021	EN 55011:2016+A2:2021	Group 1 Class A	Pass
Harmonic Current Emission	EN IEC 61000-3-2:2019	EN IEC 61000-3-2:2019	Class A	Pass
Voltage Fluctuations and Flicker	EN 61000-3-3:2013+A1:2019	EN 61000-3-3:2013+A1:2019	Clause 5 of EN 61000-3-3	Pass

Immunity Part				
Item	**Standard**	**Method**	**Requirement**	**Result**
Electrostatic Discharge	EN IEC 61000-6-2:2019	EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass
Electrical Fast Transients/Burst at Power Port	EN IEC 61000-6-2:2019	EN 61000-4-4:2012	2kV 5/50ns Tr/Td 5 or 100kHz Repetition Frequency	Pass
Surge at Power Port	EN IEC 61000-6-2:2019	EN 61000-4-5:2014 +A1:2017	1.2/50μs Tr/Td 1kV Line to Line 2kV Line to Ground	Pass
Conducted Immunity at Power Port (150kHz-80MHz)	EN IEC 61000-6-2:2019	EN 61000-4-6:2014	10Vrms (emf),80%,1kHz Amp. Mod.	Pass
Power Frequency Magnetic Field	EN IEC 61000-6-2:2019	EN 61000-4-8:2010	50Hz 30A/m	Pass
Voltage Dips and Interruptions	EN IEC 61000-6-2:2019	EN 61000-4-11:2004 +A1:2017	0 % UT for 1per 40 % UT for 10per 70 % UT for 25per 0 % UT for 250per UT is Supply Voltage	Pass
Radiated Immunity (80MHz-6GHz)	EN IEC 61000-6-2:2019	EN 61000-4-3:2006 +A1:2008+A2:2010	10V/m, 80%, 1kHz Amp. Mod. 3V/m, 80%, 1kHz Amp. Mod.	Pass

Declaration of EUT Family Grouping:
Note 1:There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model EI-MD3000 was tested since their differences were the model number, trade name and appearance.
Note 2: According to the validated standards, the models mentioned in this report are deemed to fulfil the EMC requirements without testing.

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4 General Information

4.1 Details of E.U.T.

Power supply: AC-DC Adapter: AJM15V5A
INPUT: 100-240V AC 50/60Hz
OUTPUT: 15V/5000mA
Test voltage: AC 230V/50Hz
Cable: AC Cable: Non-shielded Length:1.8m

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conducted Emission at mains port using AMN	2.6dB (9kHz to 150kHz)
		2.4dB (150kHz to 30MHz)
2	Conducted Emission at mains port using VP	1.8 dB (9kHz to 30MHz)
3	Conducted Emission at telecommunication port using AAN	4.2 dB (150kHz to 30MHz)
4	Radiated Power	3.2dB
5	Radiated Emission	4.5dB (30MHz-1GHz)
		5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
6	Radiated Disturbance (disturbance current in a LLAS)	2.4dB (9kHz to 30MHz)

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.5 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

CAB Identifier: CN0072.

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI TEST RECEIVER	R&S	ESCI	100781	02/24/2020	02/23/2021
V (V-LISN)	SCHWARZBECK	NNLK 8129	8129-143	10/24/2019	10/23/2020
TWO-LINE V-NETWORK	R&S	ENV216	101604	10/24/2019	10/23/2020
Pulse LIMITER	R&S	ESH3-Z2	100609	02/24/2020	02/23/2021

Radiated Emissions (30MHz-1GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMI Test Receiver	R&S	ESCI	101378	12/19/2019	12/18/2020
Antenna	TESEQ	CBL 6112D	35403	06/22/2019	06/21/2021

Harmonic & Voltage Fluctuations and Flicker					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Harmonic & Flicker Tester	SCHAFFNER	CCN 1000-1	72585	10/24/2019	10/23/2020
AC Power Source	SCHAFFNER	NSG 1007	54788	10/24/2019	10/23/2020

Electrostatic Discharge					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
ESD Simulator	EM TEST	DITO 509030	V0936105118	02/24/2020	02/23/2021

Electrical Fast Transients/Burst at Power Port					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMC Immunity Tester	EMC PARTNER	TRA2006	TRA2006_F-S-T-D-R-15	12/19/2019	12/18/2020

Surge at Power Port					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMC Immunity Tester	EMC PARTNER	TRA2006	F-S-T-D-R-1503	12/19/2019	12/18/2020

Conducted Immunity at Power Port (150kHz-80MHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Attenuator	EURO MC	7860 ORGEVAL	2226	04/22/2020	04/21/2021
CDN(Coupling and Decoupling Network)	SCHAFFNER	CDN M216	16399	04/22/2020	04/21/2021
CDN(Coupling and Decoupling Network)	SCHAFFNER	CDN M316	16939	04/22/2020	04/21/2021
CDN(Coupling and Decoupling Network)	TESEQ	CDN M116	35358	04/22/2020	04/21/2021
Test System for Conducted and Radiated Immunity	TESEQ	NSG 4070B	44279	02/24/2020	02/23/2021

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Amplifier	TESEQ	SCCXE75	U2060-0916	02/24/2020	02/23/2021

Power Frequency Magnetic Field					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Induction Coil Interface	SCHAFFNER	INA2141	6004	02/24/2020	02/23/2021
PFMF	SCHAFFNER	INA702	200149-078SC	02/24/2020	02/23/2021
AC Power Source	SCHAFFNER	NSG 1007	54788	10/24/2019	10/23/2020

Voltage Dips and Interruptions					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
EMC Immunity Tester	EMC PARTNER	TRA2006	TRA2006_F-S-T-D-R-15	12/19/2019	12/18/2020

Radiated Immunity (80MHz-6GHz)					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
E-Field Sensor	AR Worldwide	FL7006 100K-6G	342390	04/30/2020	04/29/2021
Amplifier Research (80~1000MHz)	AR Worldwide	150W1000M1	320947	10/24/2019	10/23/2020
Amplifier Research (1~6GHz)	AR Worldwide	50S1G6M1	342706	10/24/2019	10/23/2020
Dual Directional Coupler (1-11G)	AR Worldwide	C1-A47NFNF 35dB	1	N.C.R	N.C.R
Dual Directional Coupler (80~1000MHz)	AR Worldwide	DC6180	302211	N.C.R	N.C.R
RF POWER METER	BOONTON	4232A-01	1614	02/24/2020	02/23/2021
POWER SENSOR	BOONTON	51011-EMC	34149	02/24/2020	02/23/2021
POWER SENSOR	BOONTON	51011A-EMC	36351	04/22/2020	04/21/2021
Antenna	AR Worldwide	TP1000A	302624	N.C.R	N.C.R
Laser probe interface	AR Worldwide	FI7000	354057	04/30/2020	04/29/2021
Synthesized Signal Generator	AGILENT	83732B	US37101915	02/24/2020	02/23/2021

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
Digital pressure meter	YONGZHI	DYM3-01	SHEM082-1	2018-01-25	2021-01-24
Temperature&humidity recorder	ShangHai weather meter work	ZJ 1-2B	SHEM042-1~6	2020-09-11	2021-09-10
Digital Multimeter	FLUKE	17B	SHEM043-3	2020-09-09	2021-09-08
Autoformer regulator	Guangzhou bao de	TDGC2-5KVA	SHEM150-1	N/A	N/A
Multi-purpose tong tester	FLUKE	316	SHEM001-1	2019-12-20	2020-12-19

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6 Emission Test Results

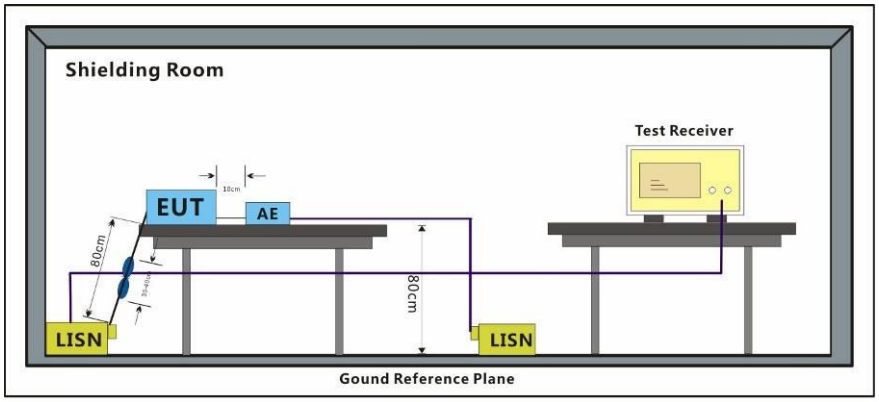
6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: EN 55011:2016+A2:2021
Test Method: EN 55011:2016+A2:2021
Frequency Range: 150kHz to 30MHz
Limit:
0.15M-0.5MHz 79dB(μV) quasi-peak, 66dB(μV) average
0.5M-30MHz 73dB(μV) quasi-peak, 60dB(μV) average
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Test mode a: Keep EUT working continuously with Adapter

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

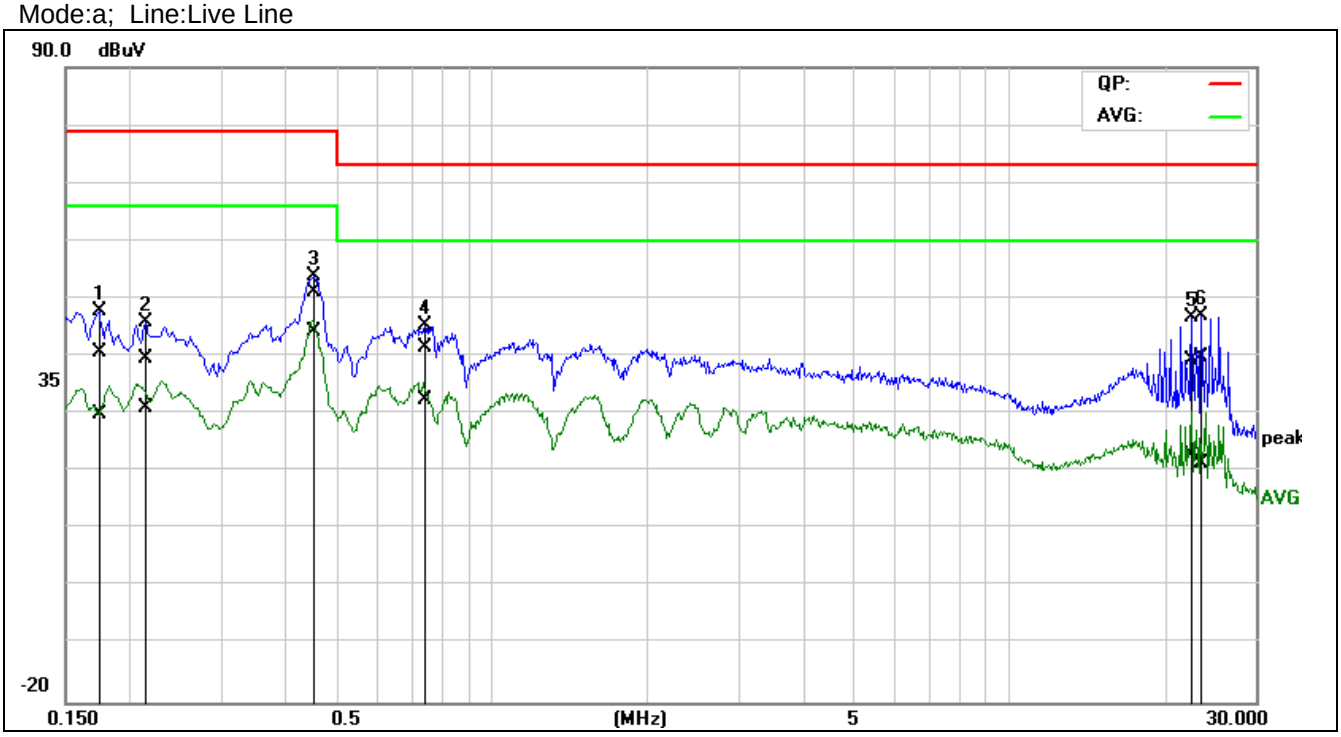
An initial pre-scan was performed with peak detector.Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Notes: 1.Result (dBuV) = Reading(dBuV) + Correction Factor (dB)

2.Correction Factor (dB)=LISN Factor (dB)+Cable Loss (dB)

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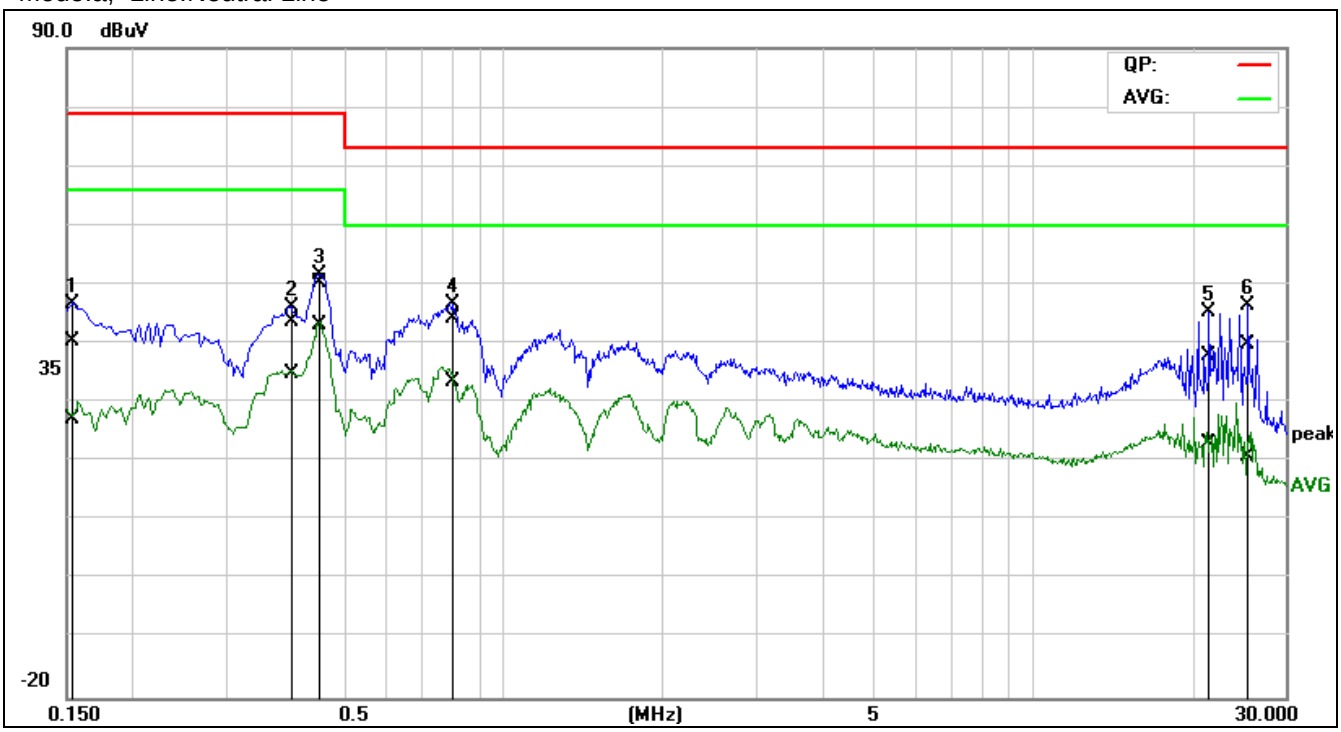
Mode:a; Line:Live Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1738	21.33	10.50	19.44	40.77	29.94	79.00	66.00	-38.23	-36.06	Pass
2	0.2146	20.22	11.65	19.42	39.64	31.07	79.00	66.00	-39.36	-34.93	Pass
3*	0.4516	31.75	24.73	19.45	51.20	44.18	79.00	66.00	-27.80	-21.82	Pass
4	0.7494	21.94	12.84	19.50	41.44	32.34	73.00	60.00	-31.56	-27.66	Pass
5	22.5551	18.86	2.34	20.42	39.28	22.76	73.00	60.00	-33.72	-37.24	Pass
6	23.5662	19.35	1.04	20.44	39.79	21.48	73.00	60.00	-33.21	-38.52	Pass

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Mode:a; Line:Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1520	21.07	7.73	19.40	40.47	27.13	79.00	66.00	-38.53	-38.87	Pass
2	0.4000	24.39	15.38	19.39	43.78	34.77	79.00	66.00	-35.22	-31.23	Pass
3*	0.4524	31.01	23.78	19.39	50.40	43.17	79.00	66.00	-28.60	-22.83	Pass
4	0.8013	24.69	14.10	19.49	44.18	33.59	73.00	60.00	-28.82	-26.41	Pass
5	21.5532	17.50	2.79	20.35	37.85	23.14	73.00	60.00	-35.15	-36.86	Pass
6	25.5693	19.20	0.26	20.48	39.68	20.74	73.00	60.00	-33.32	-39.26	Pass

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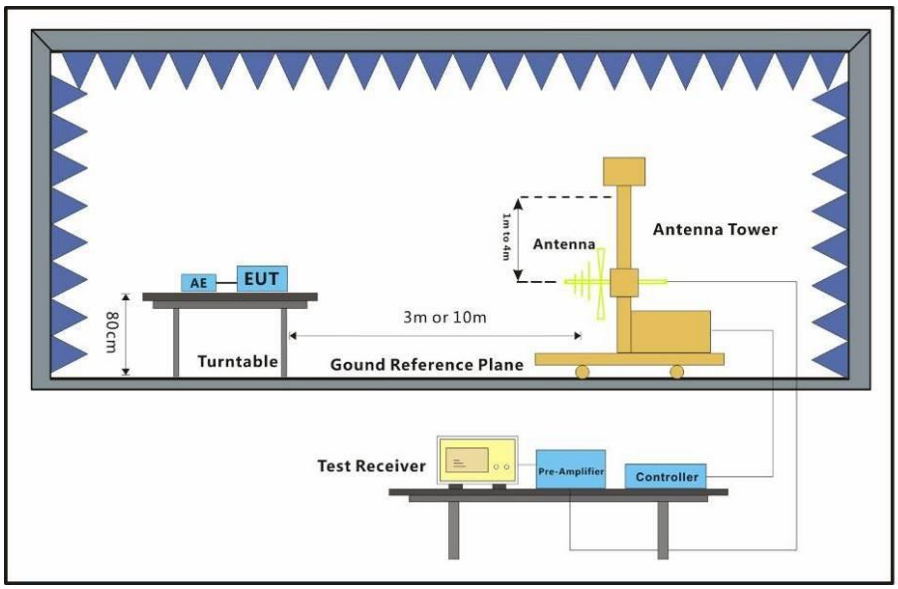
6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN 55011:2016+A2:2021
Test Method: EN 55011:2016+A2:2021
Frequency Range: 30MHz to 1GHz
Measurement Distance: 3m
Limit:
30MHz-230MHz 50 dB(μV/m) quasi-peak
230MHz-1GHz 57 dB(μV/m) quasi-peak
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Test mode a: Keep EUT working continuously with Adapter

6.2.2 Test Setup Diagram



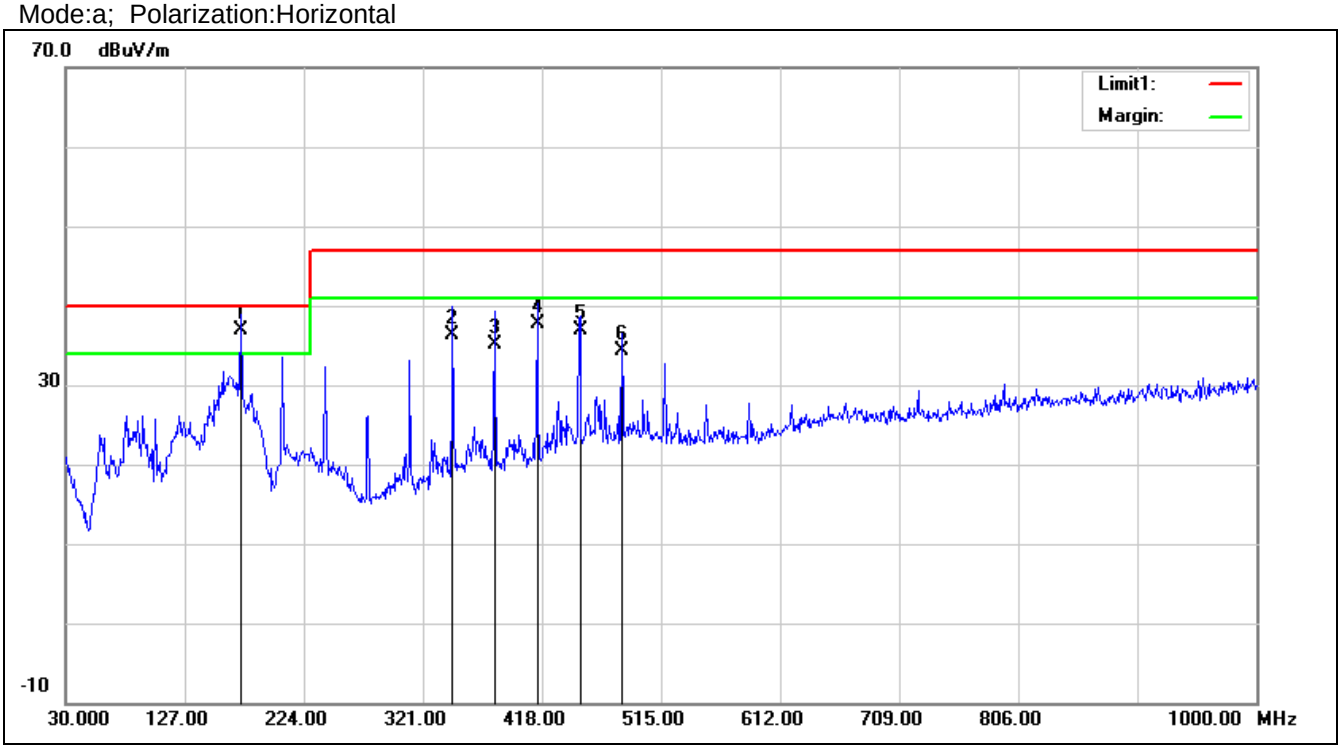
6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Notes: 1.Result (dBuV/m) = Reading(dBuV) + Correction Factor (dB/m)
2.Correction Factor (dB/m)=Antenna Factor (dB/m)+Cable Loss (dB)- Amplifier (dB)

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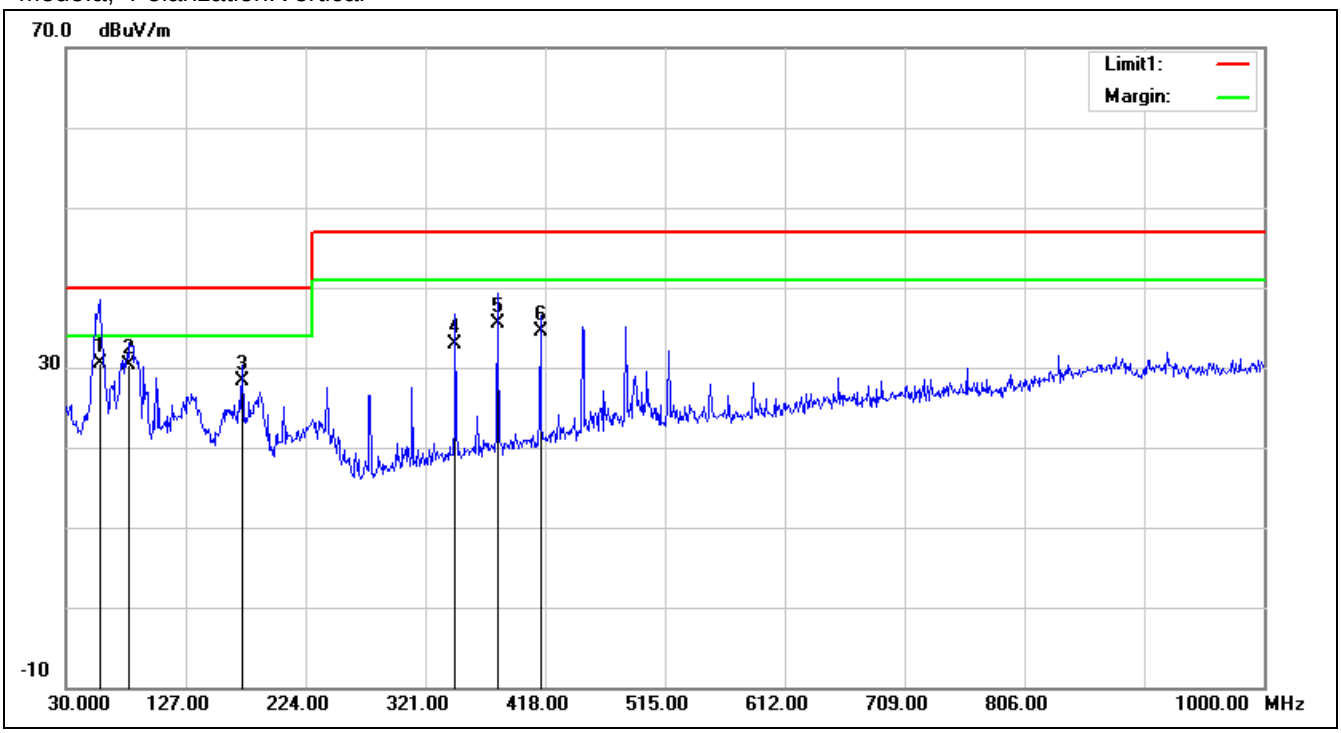
Mode:a; Polarization:Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg)	
1	172.5900	49.21	-12.32	36.89	40.00	-3.11	200	357	QP
2	345.2500	45.39	-9.18	36.21	47.00	-10.79	100	357	QP
3	379.2000	43.84	-8.65	35.19	47.00	-11.81	100	238	QP
4	414.1200	45.56	-7.87	37.69	47.00	-9.31	100	42	QP
5	449.0400	43.48	-6.56	36.92	47.00	-10.08	400	243	QP
6	482.9900	39.26	-5.04	34.22	47.00	-12.78	100	234	QP

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Mode:a; Polarization:Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg)	
1	57.3200	46.08	-15.57	30.51	40.00	-9.49	100	364	QP
2	81.4100	44.89	-14.66	30.23	40.00	-9.77	200	95	QP
3	172.5900	37.98	-9.62	28.36	40.00	-11.64	300	184	QP
4	345.2500	39.32	-6.37	32.95	47.00	-14.05	200	340	QP
5	379.2000	40.98	-5.52	35.46	47.00	-11.54	200	312	QP
6	414.1200	39.17	-4.61	34.56	47.00	-12.44	200	324	QP

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6.3 Harmonic Current Emission

Test Requirement: EN IEC 61000-3-2:2019

Test Method: EN IEC 61000-3-2:2019

Frequency Range: 100Hz to 2kHz

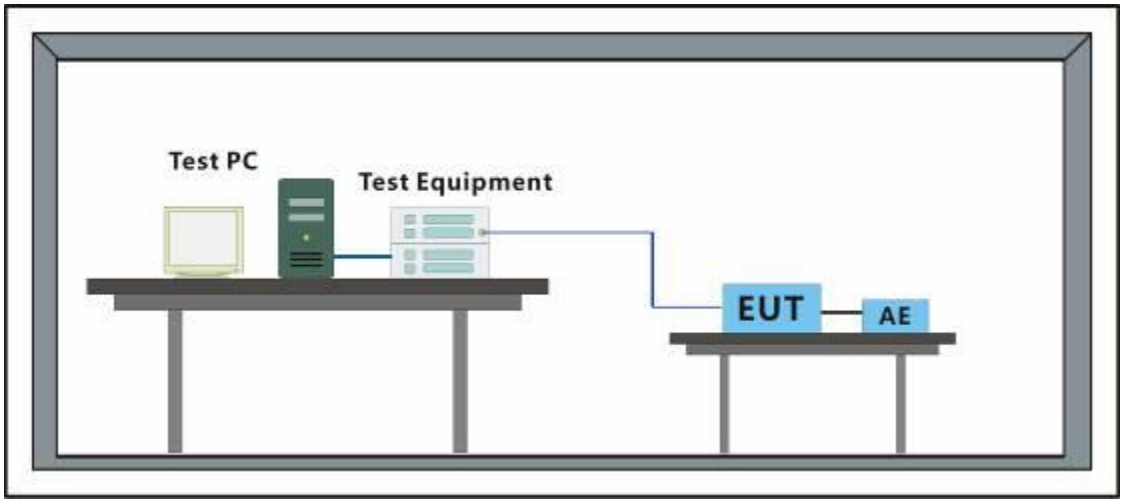
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Keep EUT working continuously with Adapter

6.3.2 Test Setup



6.3.3 Measurement Data

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Mode:a

Highest parameter values during test:

V_RMS (Volts):	230.32	Frequency(Hz):	50.00
I_Peak (Amps):	0.767	I_RMS (Amps):	0.179
I_Fund (Amps):	0.062	Crest Factor:	5.114
Power (Watts):	14.1	Power Factor:	0.429

Harm#	Harms(avg)	100%Limit	%of Limit	Harms(max)	150%Limit	%of Limit	Status
2	0.002	1.080	N/A	0.005	1.620	N/A	Pass
3	0.051	2.300	2.2	0.060	3.450	1.7	Pass
4	0.002	0.430	N/A	0.004	0.645	N/A	Pass
5	0.049	1.140	4.3	0.058	1.710	3.4	Pass
6	0.002	0.300	N/A	0.004	0.450	N/A	Pass
7	0.046	0.770	6.0	0.054	1.155	4.7	Pass
8	0.002	0.230	N/A	0.004	0.345	N/A	Pass
9	0.042	0.400	10.6	0.049	0.600	8.2	Pass
10	0.001	0.184	N/A	0.004	0.276	N/A	Pass
11	0.038	0.330	11.5	0.043	0.495	8.7	Pass
12	0.001	0.153	N/A	0.003	0.230	N/A	Pass
13	0.033	0.210	15.9	0.037	0.315	11.8	Pass
14	0.001	0.131	N/A	0.003	0.197	N/A	Pass
15	0.028	0.150	19.0	0.031	0.225	13.7	Pass
16	0.001	0.115	N/A	0.003	0.173	N/A	Pass
17	0.024	0.132	17.8	0.025	0.198	12.5	Pass
18	0.001	0.102	N/A	0.002	0.153	N/A	Pass
19	0.019	0.118	15.8	0.020	0.178	11.1	Pass
20	0.001	0.092	N/A	0.002	0.138	N/A	Pass
21	0.014	0.107	13.2	0.015	0.161	9.3	Pass
22	0.001	0.084	N/A	0.002	0.125	N/A	Pass
23	0.010	0.098	10.2	0.011	0.147	7.5	Pass
24	0.001	0.077	N/A	0.001	0.115	N/A	Pass
25	0.006	0.090	7.1	0.008	0.135	5.6	Pass
26	0.000	0.071	N/A	0.001	0.107	N/A	Pass
27	0.004	0.083	N/A	0.005	0.125	N/A	Pass
28	0.000	0.066	N/A	0.001	0.099	N/A	Pass
29	0.002	0.078	N/A	0.004	0.116	N/A	Pass
30	0.000	0.061	N/A	0.001	0.092	N/A	Pass
31	0.003	0.073	N/A	0.004	0.109	N/A	Pass
32	0.000	0.058	N/A	0.001	0.086	N/A	Pass
33	0.003	0.068	N/A	0.005	0.102	N/A	Pass
34	0.000	0.054	N/A	0.001	0.081	N/A	Pass
35	0.004	0.064	N/A	0.005	0.096	N/A	Pass
36	0.000	0.051	N/A	0.001	0.077	N/A	Pass
37	0.004	0.061	N/A	0.005	0.091	N/A	Pass
38	0.000	0.048	N/A	0.001	0.073	N/A	Pass
39	0.004	0.058	N/A	0.004	0.087	N/A	Pass
40	0.000	0.046	N/A	0.001	0.069	N/A	Pass

N/A: Harmonic currents less than 0.6% of the input current measured under the test conditions or less than 5mA, whichever is greater, are disregarded

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Harm#	Harmonics V-rms	Limit V-rms	% of Limit	Status
2	0.178	0.461	38.62	OK
3	0.447	2.073	21.59	OK
4	0.058	0.461	12.52	OK
5	0.031	0.921	3.31	OK
6	0.092	0.461	19.87	OK
7	0.058	0.691	8.35	OK
8	0.039	0.461	8.46	OK
9	0.017	0.461	3.79	OK
10	0.030	0.461	6.51	OK
11	0.033	0.230	14.19	OK
12	0.023	0.230	9.77	OK
13	0.027	0.230	11.68	OK
14	0.015	0.230	6.66	OK
15	0.026	0.230	11.15	OK
16	0.019	0.230	8.38	OK
17	0.020	0.230	8.79	OK
18	0.019	0.230	8.10	OK
19	0.022	0.230	9.54	OK
20	0.010	0.230	4.52	OK
21	0.015	0.230	6.50	OK
22	0.009	0.230	3.77	OK
23	0.016	0.230	7.07	OK
24	0.008	0.230	3.32	OK
25	0.008	0.230	3.68	OK
26	0.011	0.230	4.74	OK
27	0.009	0.230	4.08	OK
28	0.009	0.230	3.70	OK
29	0.009	0.230	3.78	OK
30	0.009	0.230	3.74	OK
31	0.008	0.230	3.32	OK
32	0.007	0.230	2.85	OK
33	0.009	0.230	3.96	OK
34	0.004	0.230	1.60	OK
35	0.008	0.230	3.31	OK
36	0.004	0.230	1.87	OK
37	0.011	0.230	4.92	OK
38	0.004	0.230	1.57	OK
39	0.008	0.230	3.36	OK
40	0.006	0.230	2.48	OK

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6.4 Voltage Fluctuations and Flicker

Test Requirement: EN 61000-3-3:2013+A1:2019

Test Method: EN 61000-3-3:2013+A1:2019

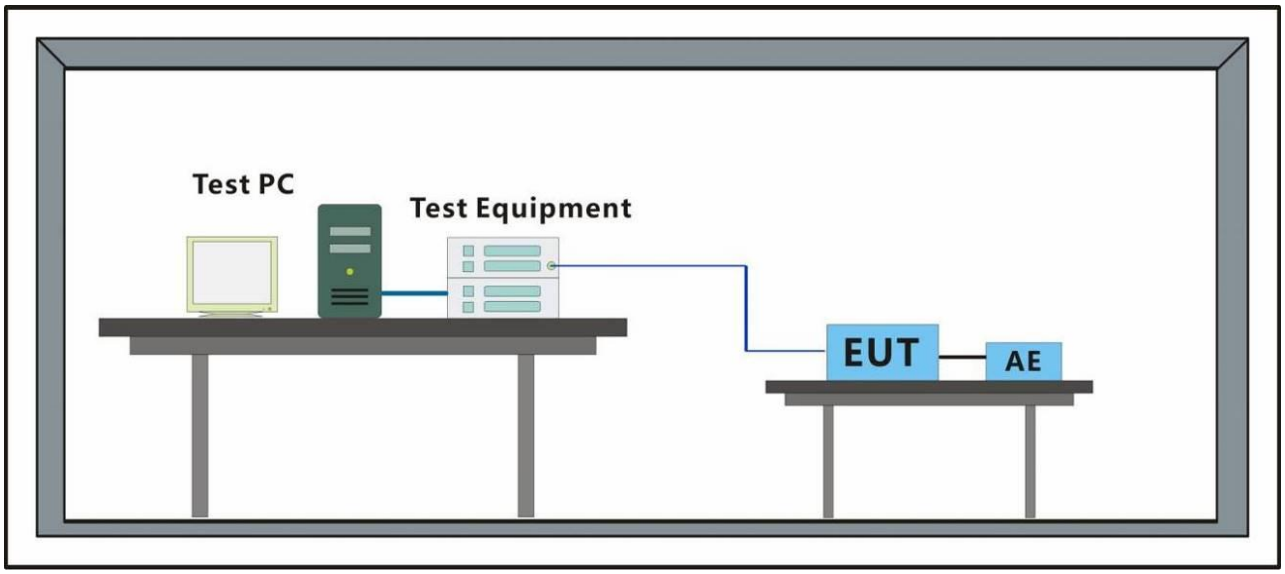
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Keep EUT working continuously with Adapter

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Mode:a

Parameter values recorded during the test:

Vrms at the end of test (Volt):	230.29			
T-max (mS):	0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.064	Test limit:	1.000	Pass

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7 Immunity Test Results

7.1 Performance Criteria Description in EN IEC 61000-6-2:2019

Criterion A The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

Criterion B The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed. No change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

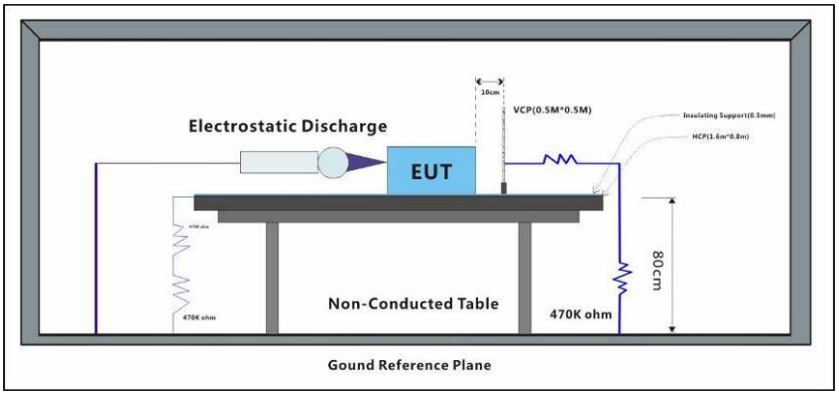
Criterion C Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

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7.2 Electrostatic Discharge

Test Requirement: EN IEC 61000-6-2:2019
Test Method: EN 61000-4-2:2009
Performance Criterion: B
Discharge Impedance: 330Ω/150pF
Number of Discharge: Minimum 10 times at each test point
Discharge Mode: Single Discharge
Discharge Period: 1 second minimum

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Test mode: a: Keep EUT working continuously with Adapter

7.2.3 Test Results:

Observations: Test Point:
1. All insulated enclosure and seams.
2. All accessible metal parts of the enclosure.
3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

Results:

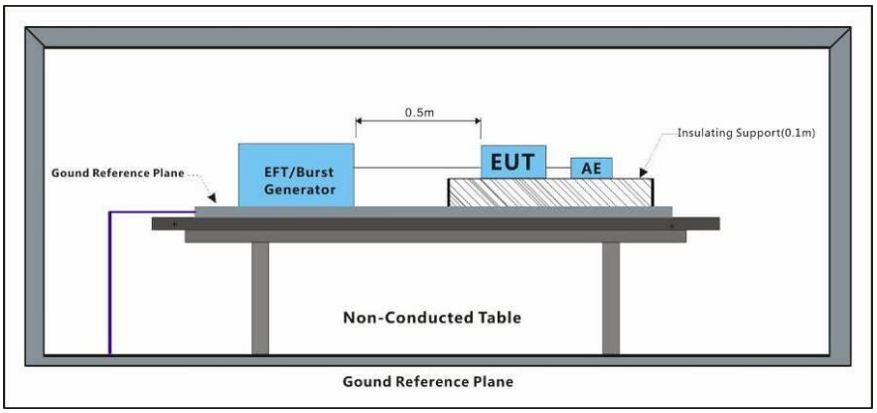
A: No degradation in the performance of the EUT was observed.

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7.3 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN IEC 61000-6-2:2019
Test Method: EN 61000-4-4:2012
Performance Criterion: B
Repetition Frequency: 5kHz
Burst Period: 300ms
Test Duration: 2 minute per level & polarity

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Test mode: a: Keep EUT working continuously with Adapter

7.3.3 Test Results:

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	2	+	CDN	A
AC power port	2	-	CDN	A

Results:

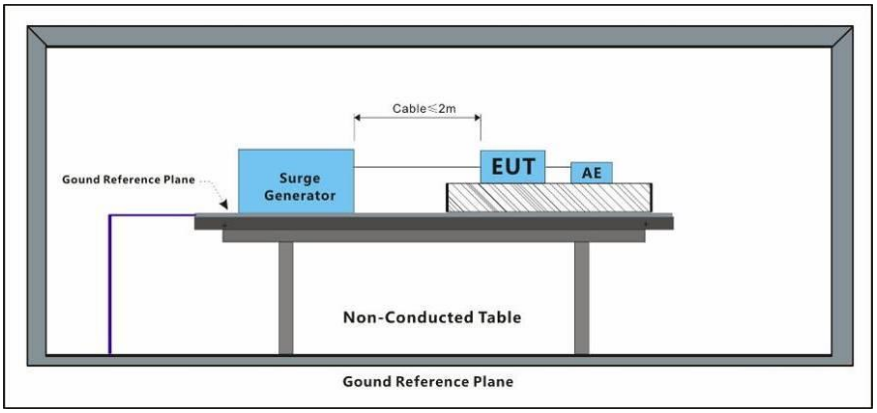
A: No degradation in the performance of the EUT was observed.

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7.4 Surge at Power Port

Test Requirement: EN IEC 61000-6-2:2019
Test Method: EN 61000-4-5:2014 +A1:2017
Performance Criterion: B
Interval: 60s between each surge
No. of surges: 5 positive, 5 negative at 0°, 90°, 180°, 270°.

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Test mode: a: Keep EUT working continuously with Adapter

7.4.3 Test Results:

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	0°	A
L-N	1	-	0°	A
L-N	1	+	90°	A
L-N	1	-	90°	A
L-N	1	+	180°	A
L-N	1	-	180°	A
L-N	1	+	270°	A
L-N	1	-	270°	A
L-PE	2	+	0°	A
L-PE	2	-	0°	A
L-PE	2	+	90°	A
L-PE	2	-	90°	A
L-PE	2	+	180°	A
L-PE	2	-	180°	A
L-PE	2	+	270°	A
L-PE	2	-	270°	A
N-PE	2	+	0°	A
N-PE	2	-	0°	A

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N-PE	2	+	90°	A
N-PE	2	-	90°	A
N-PE	2	+	180°	A
N-PE	2	-	180°	A
N-PE	2	+	270°	A
N-PE	2	-	270°	A

Results:

A: No degradation in the performance of the EUT was observed.

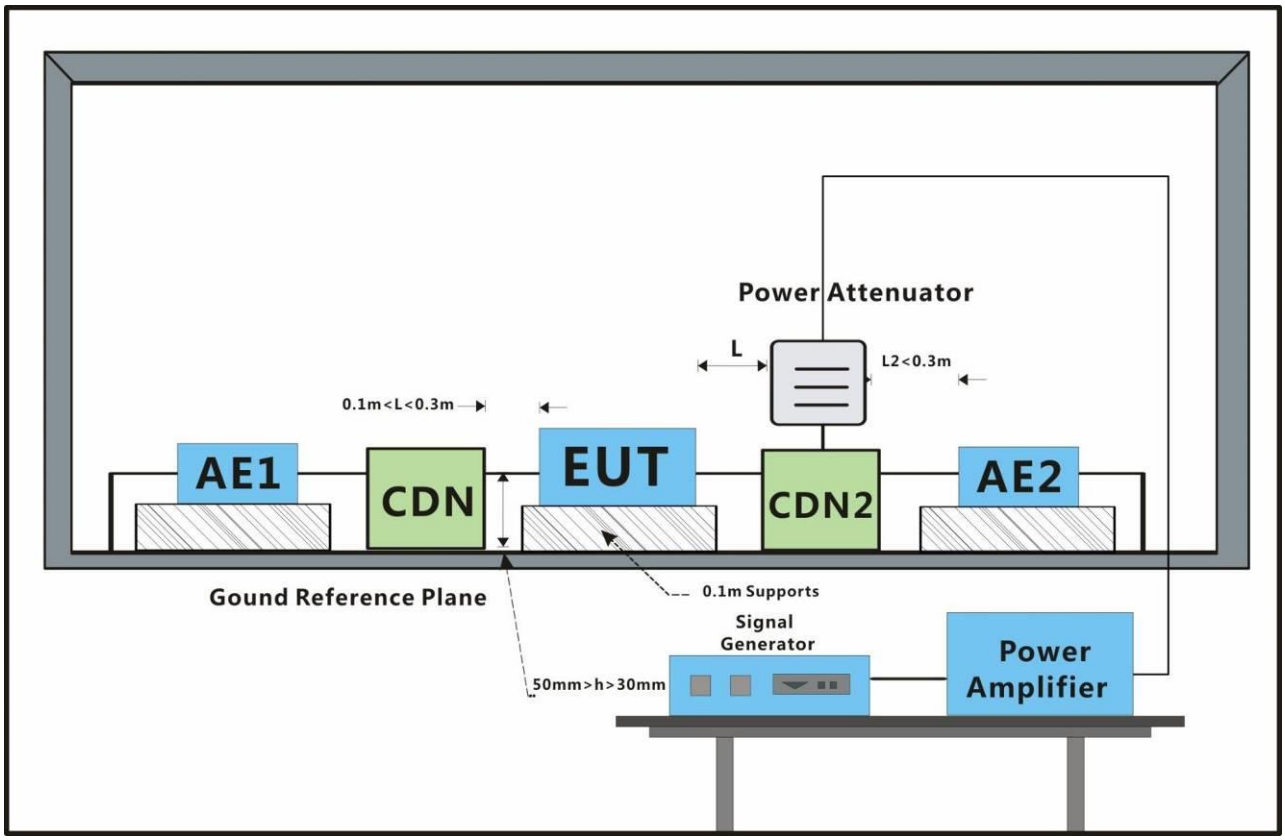
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7.5 Conducted Immunity at Power Port (150kHz-80MHz)

Test Requirement: EN IEC 61000-6-2:2019
Test Method: EN 61000-4-6:2014
Performance Criterion: A
Frequency Range: 0.15MHz to 80MHz
Modulation: 80%, 1kHz Amplitude Modulation
Step Size 1%

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Test mode: a: Keep EUT working continuously with Adapter

7.5.3 Test Results:

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	10	CDN	3s	A

Results:

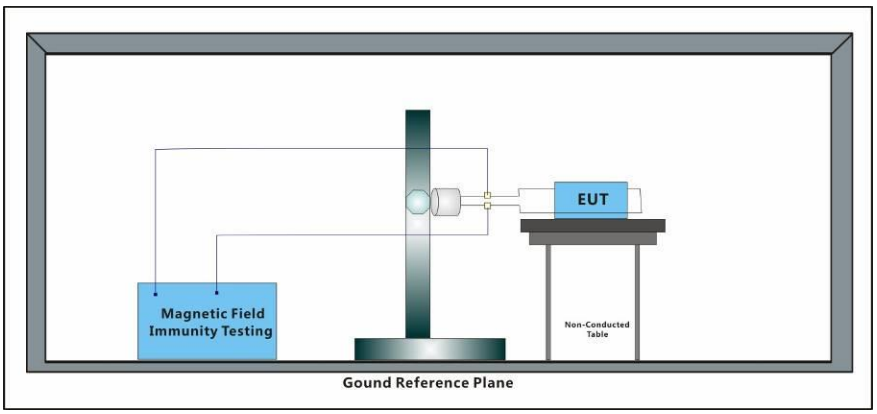
A: No degradation in the performance of the EUT was observed.

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7.6 Power Frequency Magnetic Field

Test Requirement: EN IEC 61000-6-2:2019
Test Method: EN 61000-4-8:2010
Performance Criterion: A

7.6.1 Test Setup Diagram



7.6.2 E.U.T. Operation

Operating Environment:
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Test mode: a: Keep EUT working continuously with Adapter

7.6.3 Test Results:

Frequency	Level (A/m)	Axial	Magnetic Field Type	Result / Observations
50Hz	30	X	Continuous filed	A
50Hz	30	Y	Continuous filed	A
50Hz	30	Z	Continuous filed	A

Results:

A: No degradation in the performance of the EUT was observed.

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7.7 Voltage Dips and Interruptions

Test Requirement: EN IEC 61000-6-2:2019

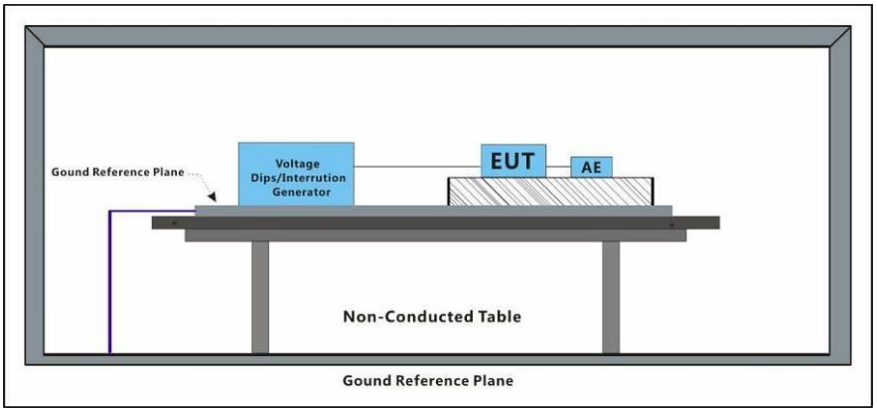
Test Method: EN 61000-4-11:2004 +A1:2017

Performance Criterion: 0% of UT (Supply Voltage) for 250 Periods:C; 40% of UT for 10 Periods:C; 70% of UT for 25 Periods:C; 0% of UT for 1 Periods:B;

No. of Dips / Interruptions: 3 per Level

Time between dropout 10s

7.7.1 Test Setup Diagram



7.7.2 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

Test mode: a: Keep EUT working continuously with Adapter

7.7.3 Test Results:

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	1 Cycles	3	A
0	180°	1 Cycles	3	A
40	0°	10 Cycles	3	A
40	180°	10 Cycles	3	A
70	0°	25 Cycles	3	A
70	180°	25 Cycles	3	A
0	0°	250 Cycles	3	A
0	180°	250 Cycles	3	A

Results:

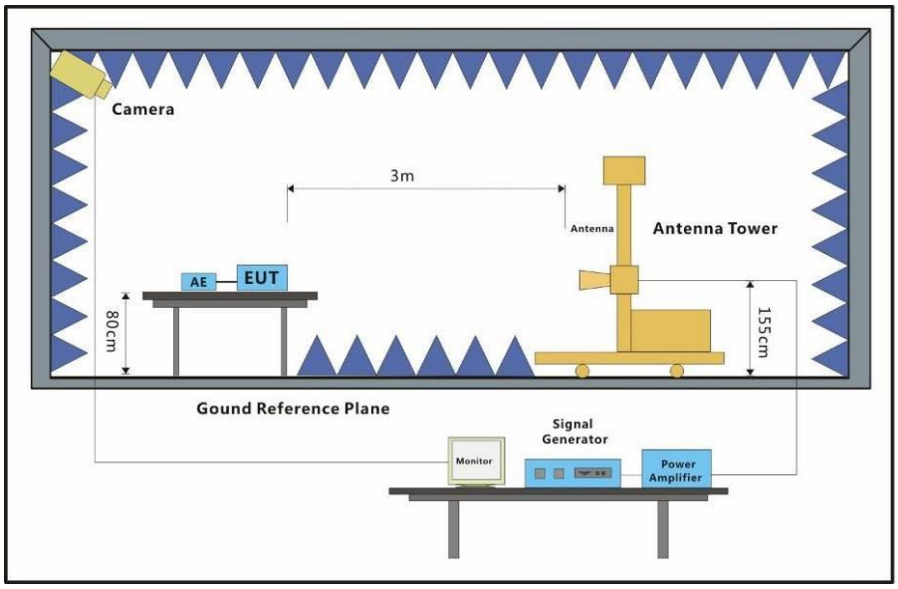
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7.8 Radiated Immunity (80MHz-6GHz)

Test Requirement: EN IEC 61000-6-2:2019
Test Method: EN 61000-4-3:2006 +A1:2008+A2:2010
Performance Criterion: A
Frequency Range: 80MHz to 1GHz, 1.4GHz to 6GHz
Antenna Polarisation: Vertical and Horizontal
Modulation: 1kHz,80% Amp. Mod,1% increment

7.8.1 Test Setup Diagram



7.8.2 E.U.T. Operation

Operating Environment:
Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar
Test mode: a: Keep EUT working continuously with Adapter

7.8.3 Test Results:

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	10	Front	3s	A
80MHz-1GHz	10	Back	3s	A
80MHz-1GHz	10	Left	3s	A
80MHz-1GHz	10	Right	3s	A
80MHz-1GHz	10	Top	3s	A
80MHz-1GHz	10	Underside	3s	A
1.4GHz-6GHz	3	Front	3s	A
1.4GHz-6GHz	3	Back	3s	A
1.4GHz-6GHz	3	Left	3s	A
1.4GHz-6GHz	3	Right	3s	A
1.4GHz-6GHz	3	Top	3s	A
1.4GHz-6GHz	3	Underside	3s	A

Results:

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A: No degradation in the performance of the EUT was observed.

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8 Photographs

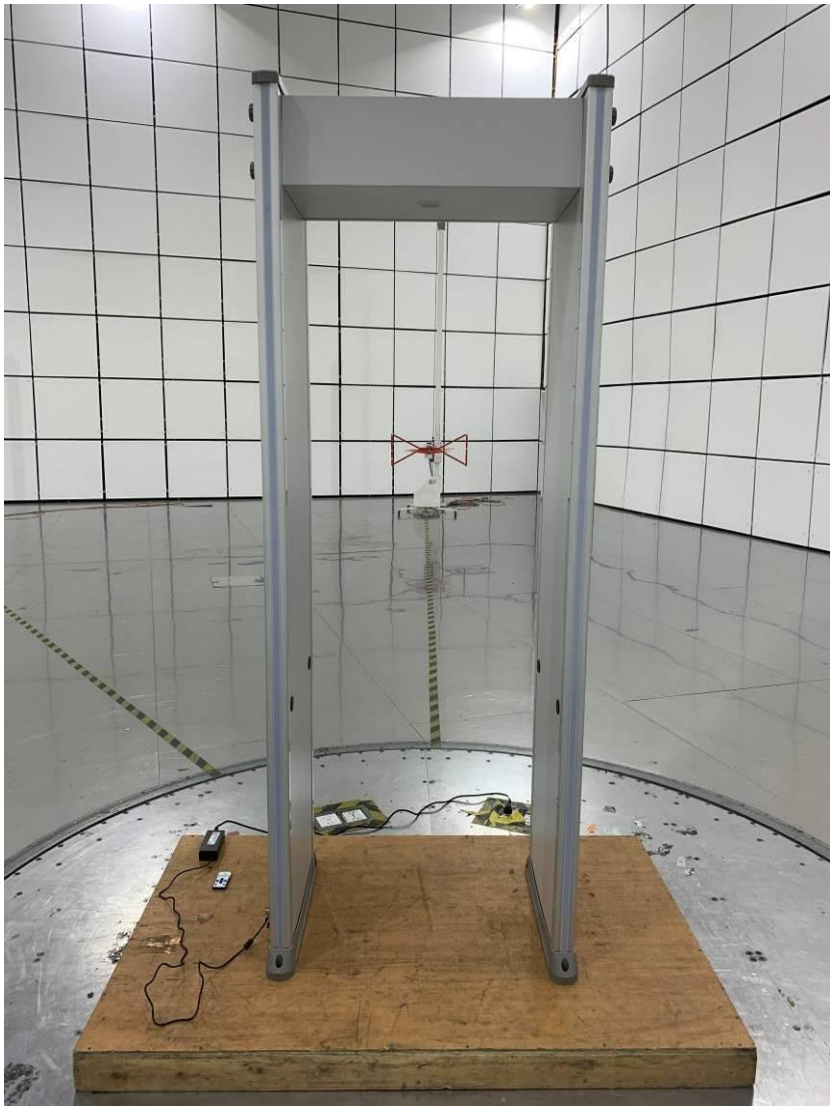
8.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



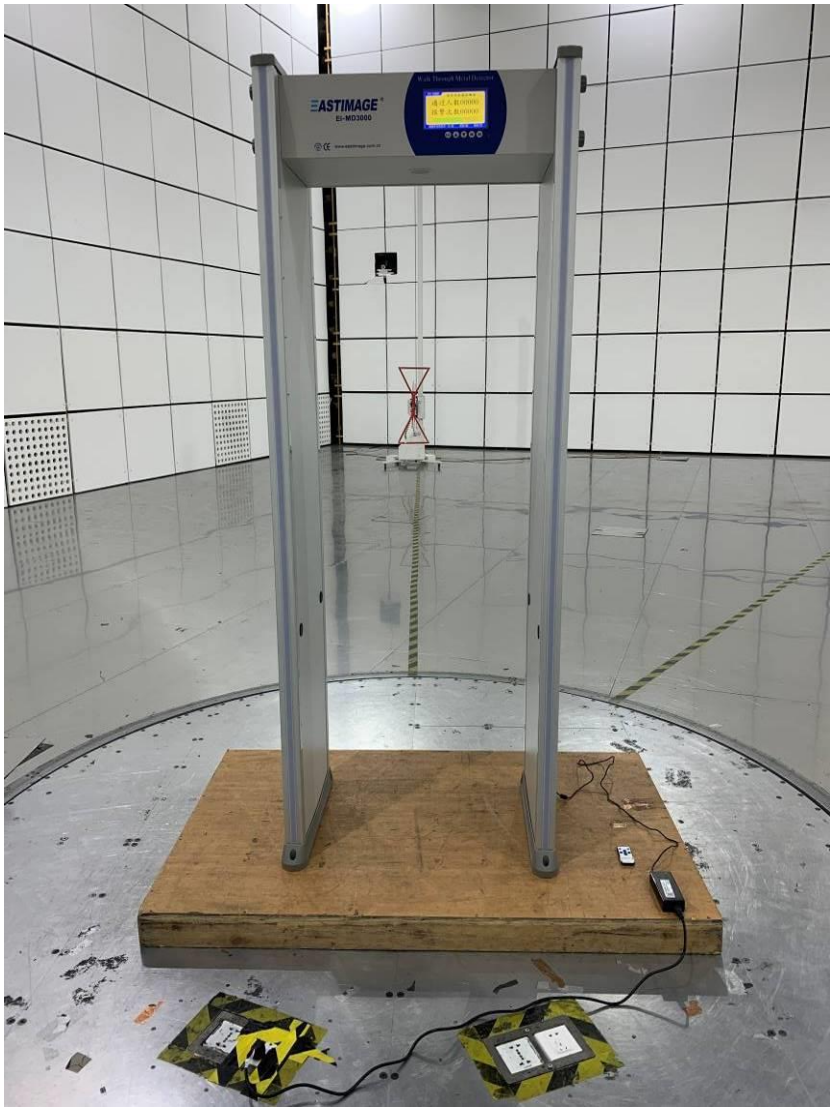
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8.2 Radiated Emissions (30MHz-1GHz) Test Setup



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8.3 Harmonic & Voltage Fluctuations and Flicker Test Setup



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8.4 Electrostatic Discharge Test Setup



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8.5 Electrical Fast Transients/Burst at Power Port Test Setup



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8.6 Surge at Power Port Test Setup



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8.7 Conducted Immunity at Power Port (150kHz-80MHz) Test Setup



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8.8 Power Frequency Magnetic Field Test Setup



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8.9 Voltage Dips and Interruptions Test Setup



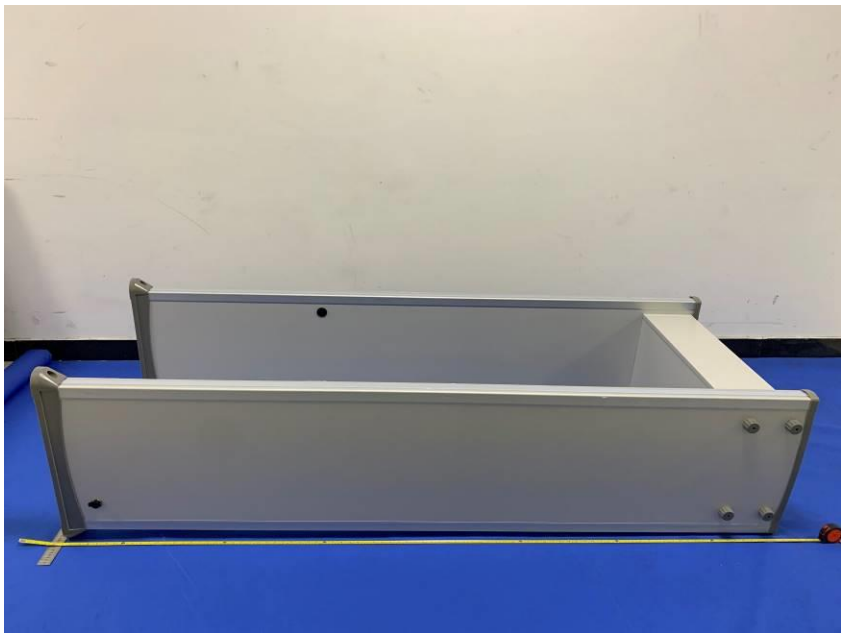
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8.10 Radiated Immunity (80MHz-6GHz) Test Setup



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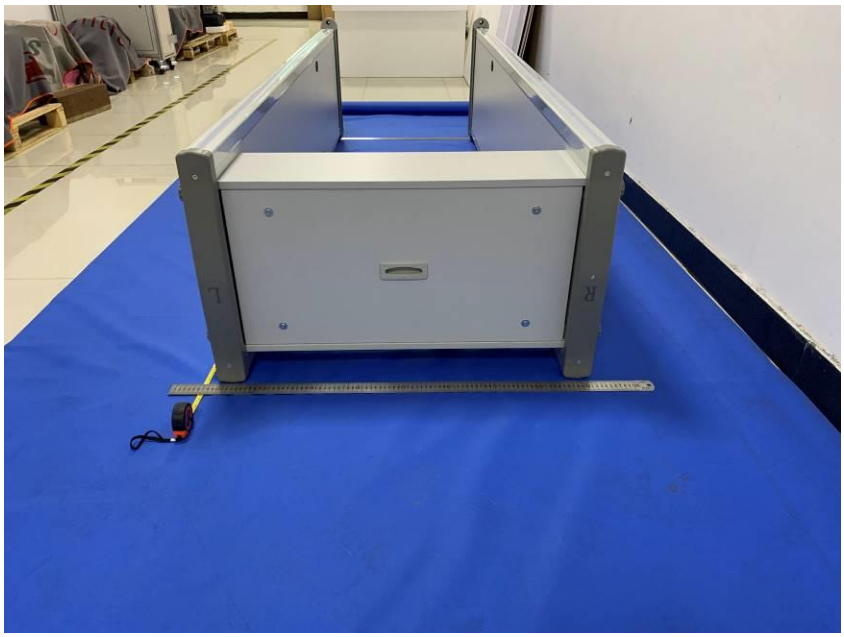
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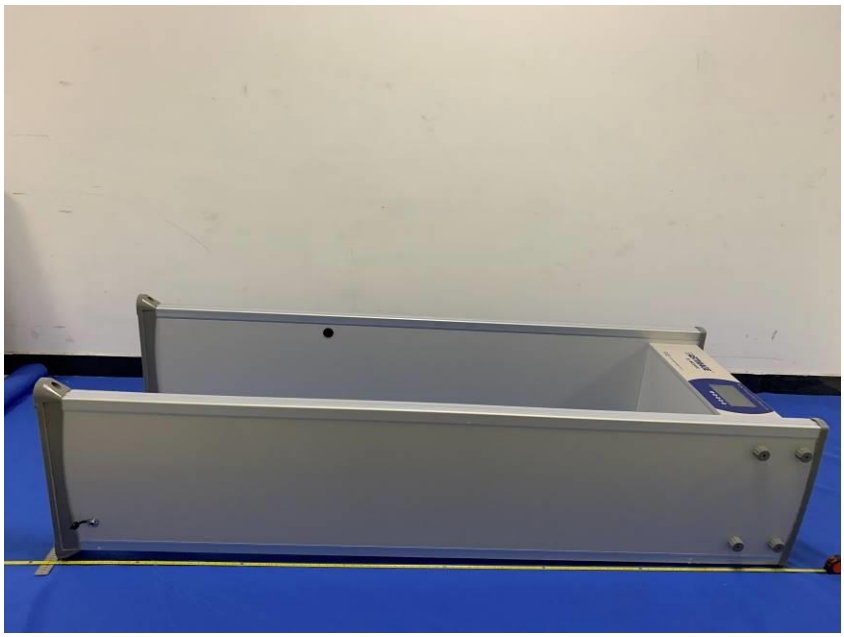


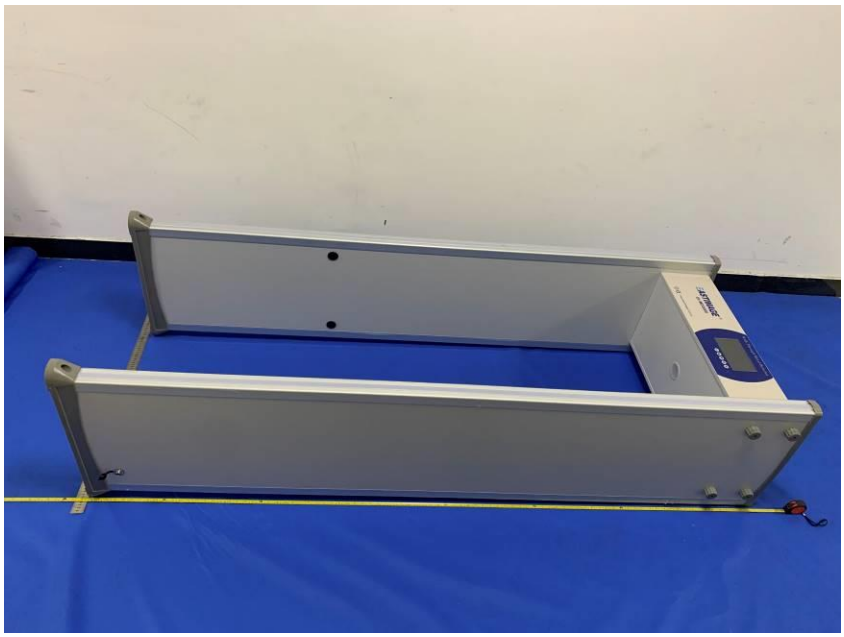
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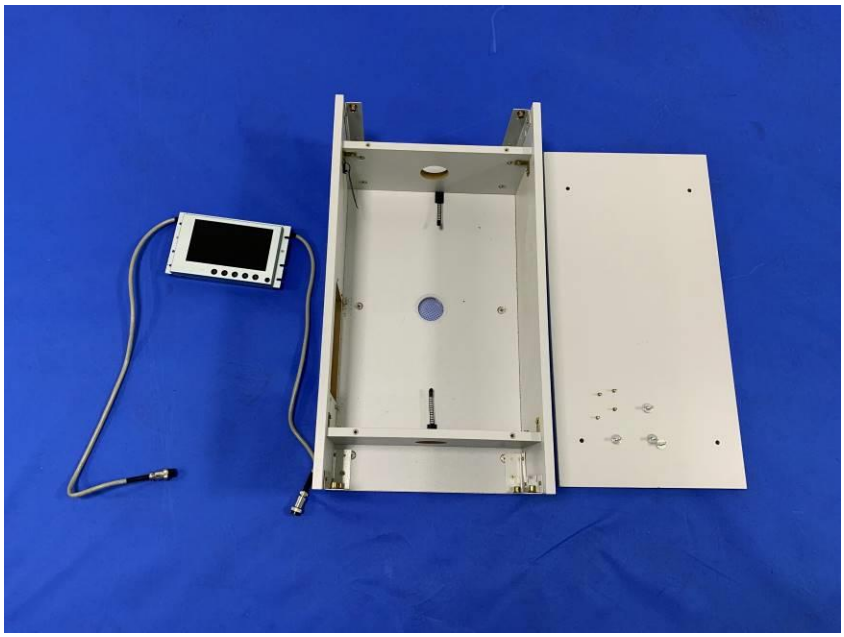


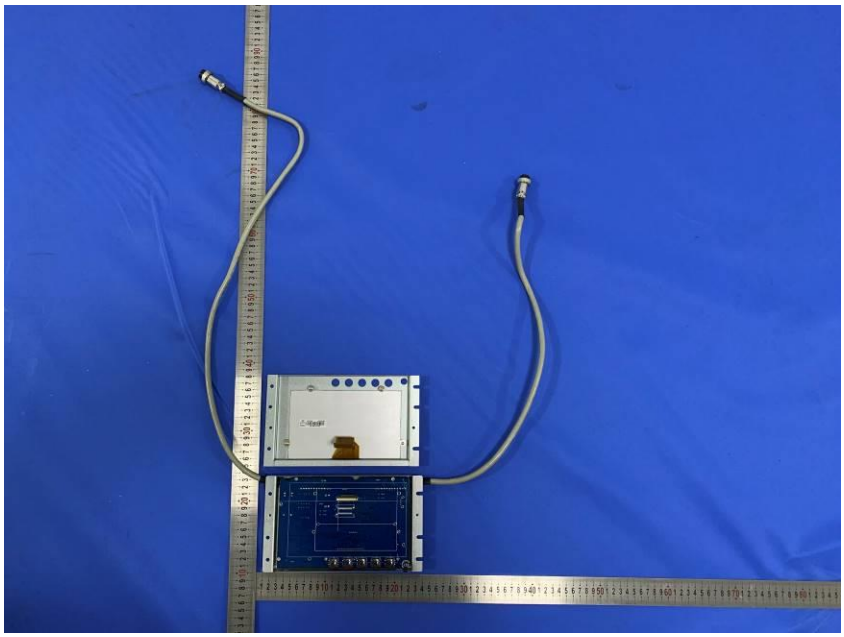
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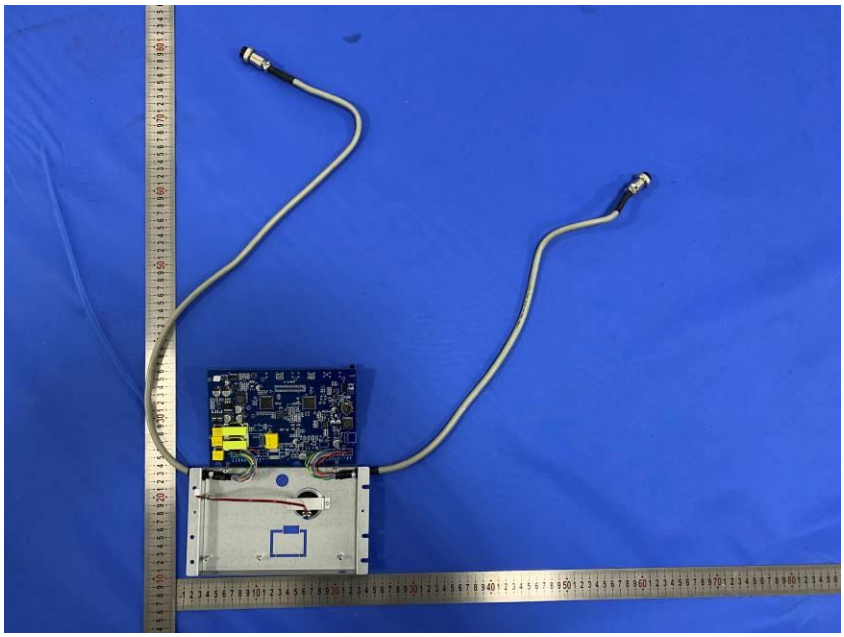
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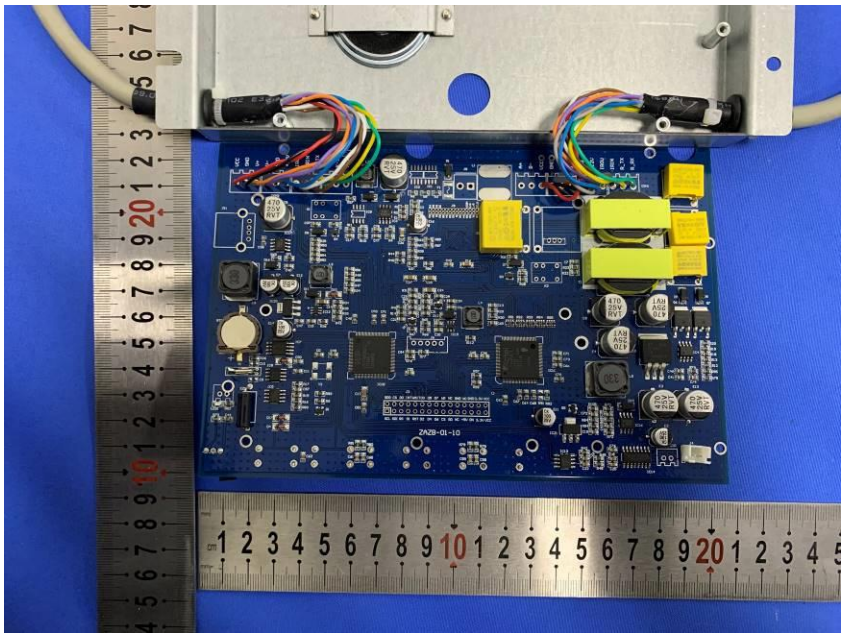


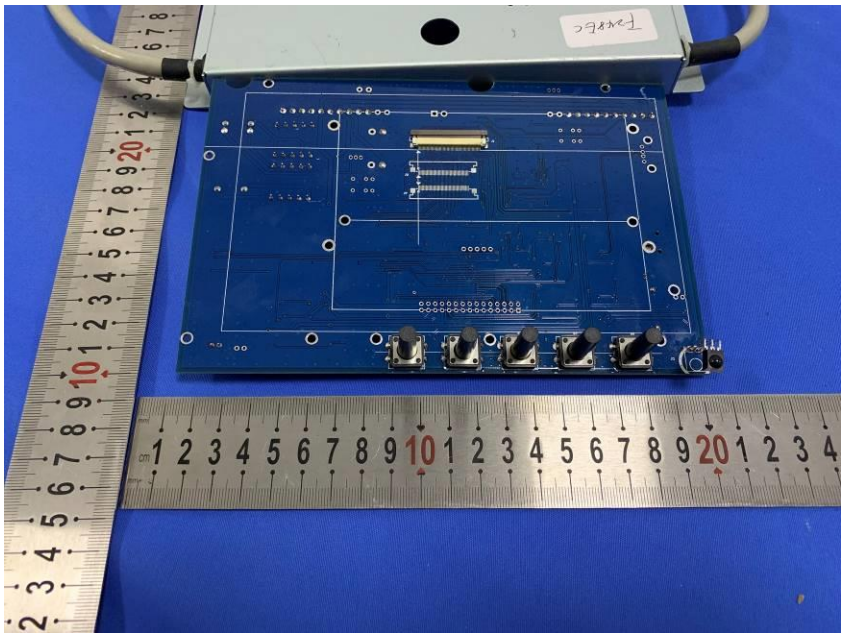
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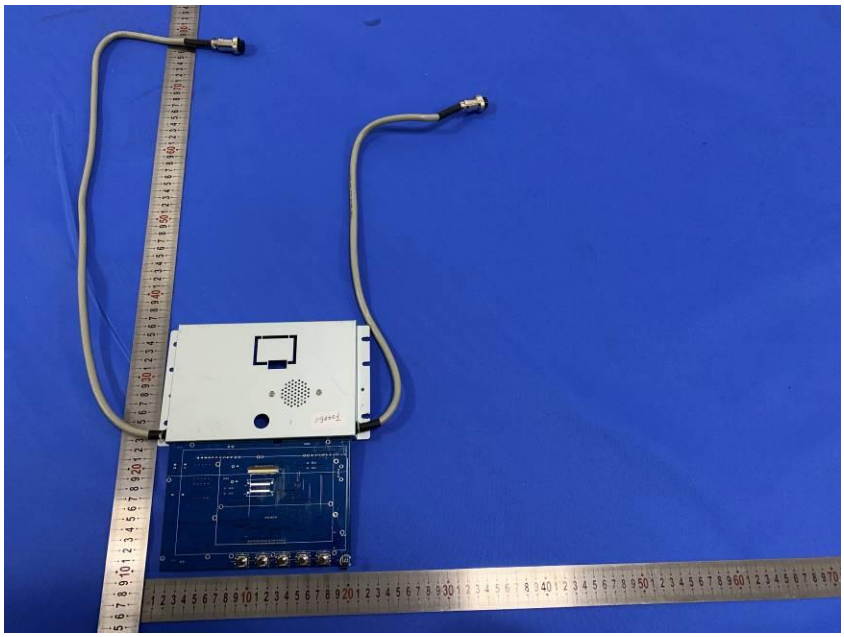
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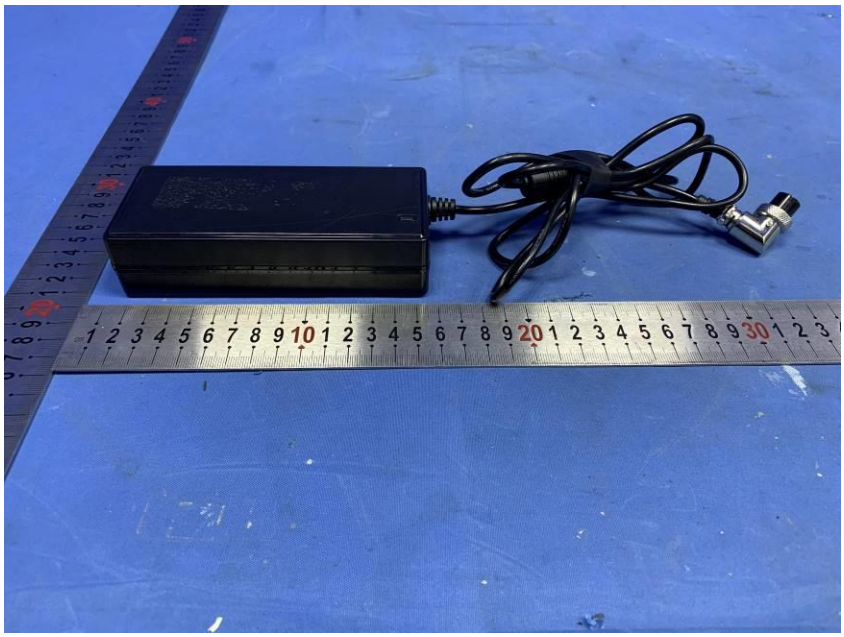




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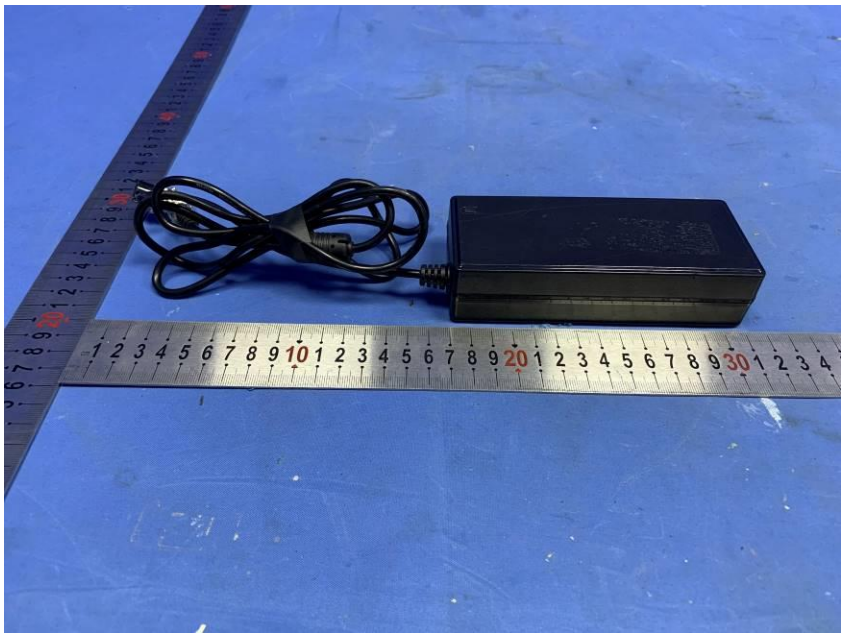
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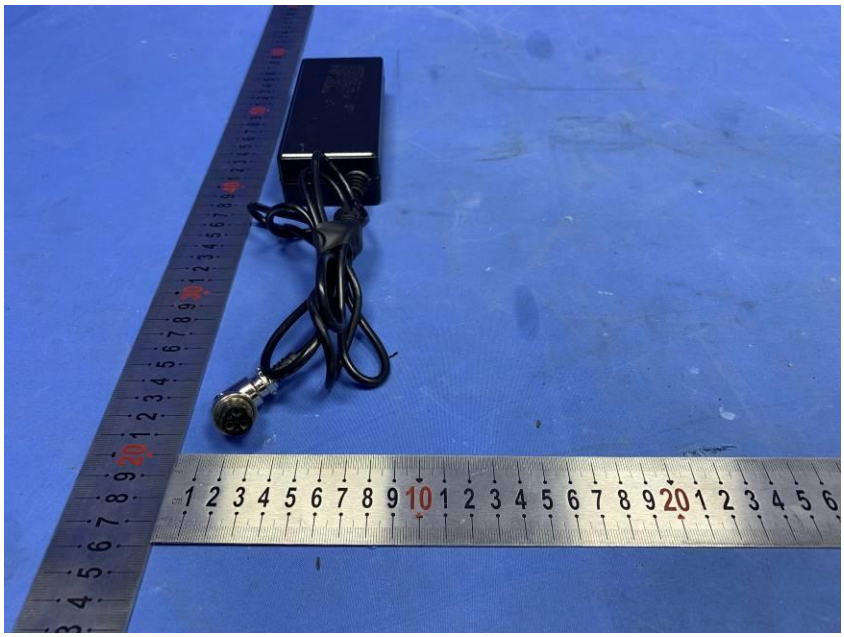
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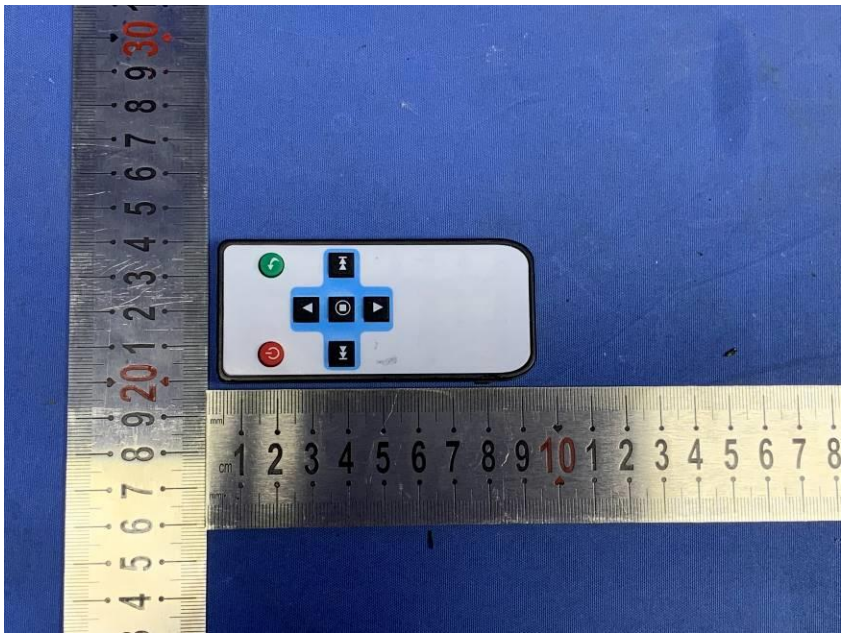


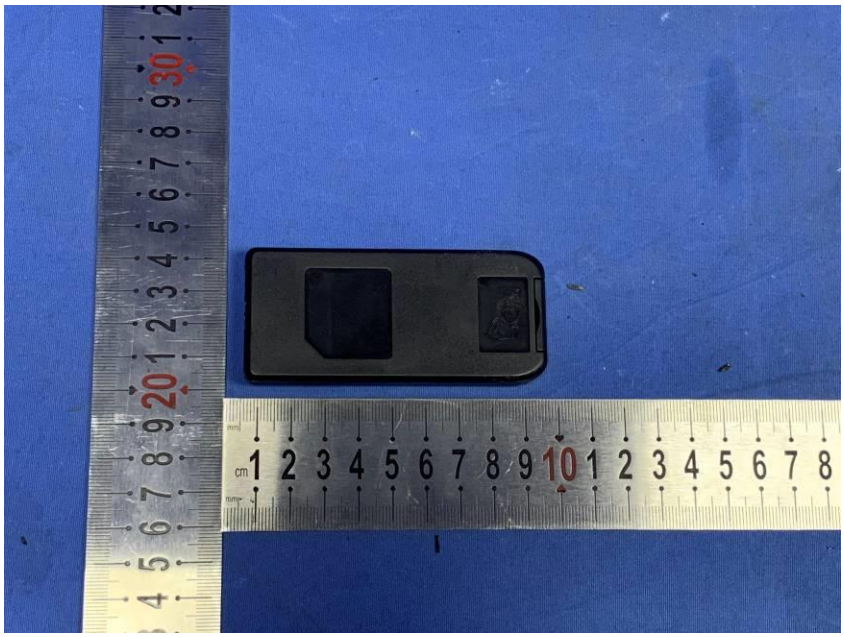
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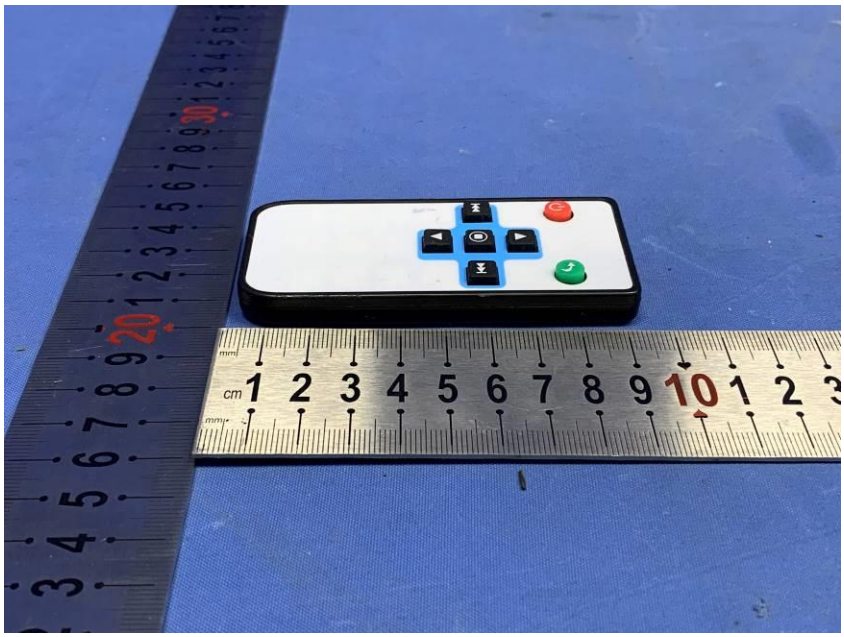
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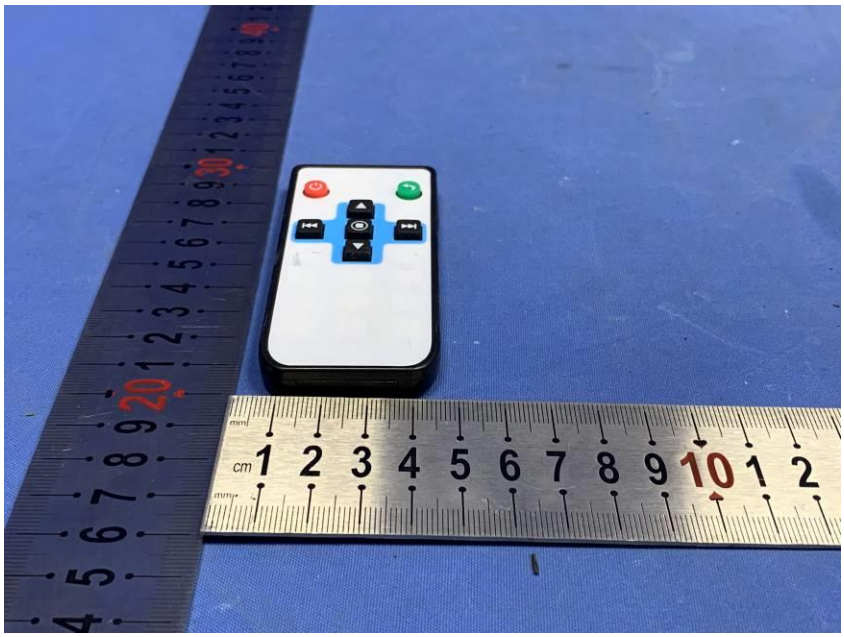


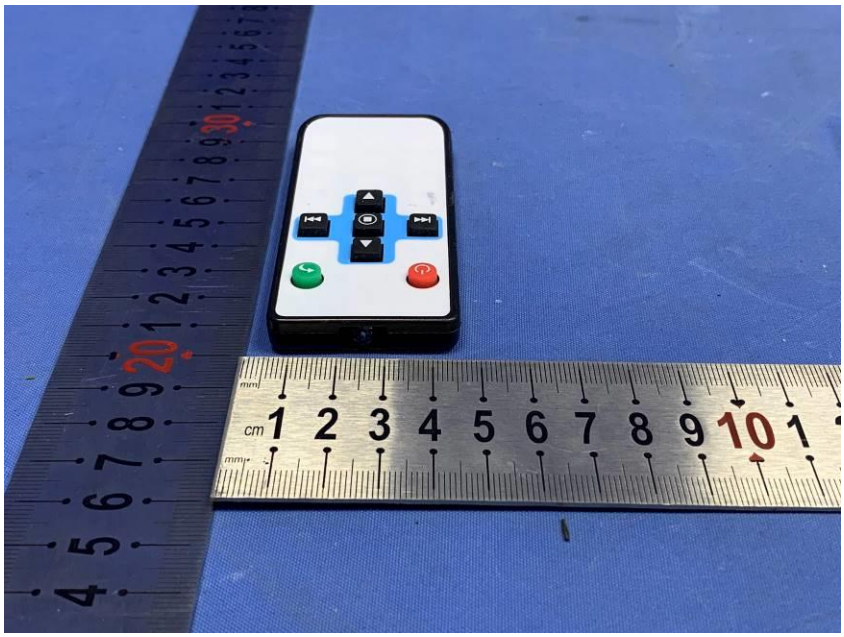
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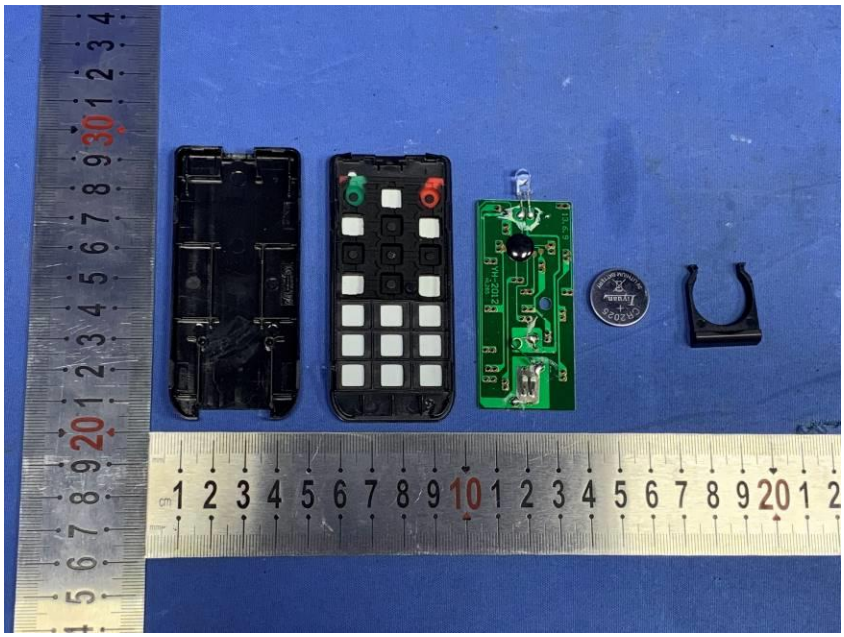


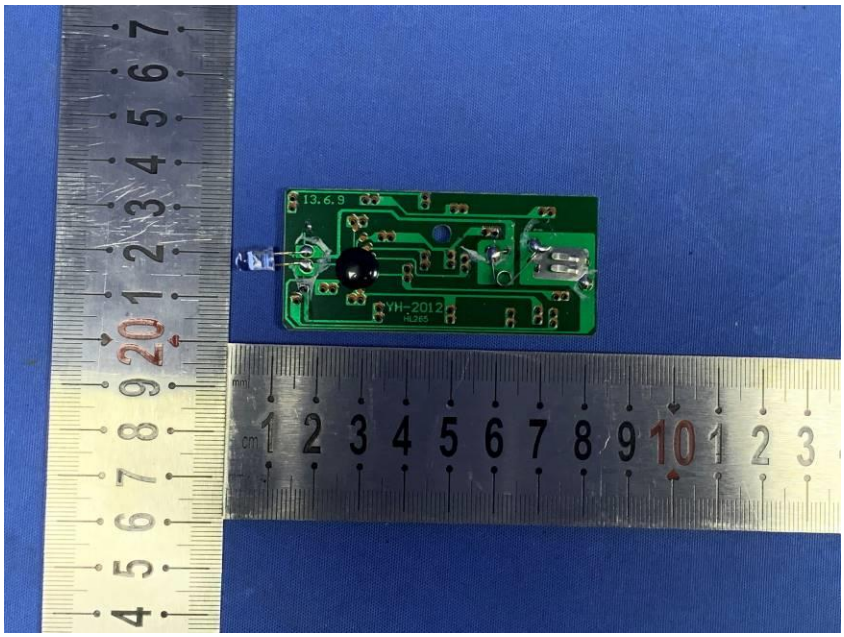
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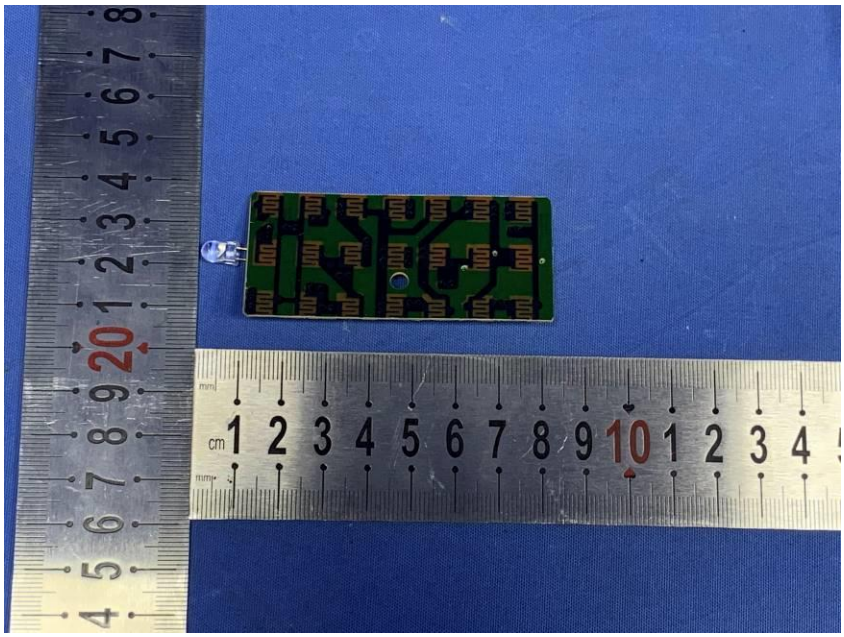


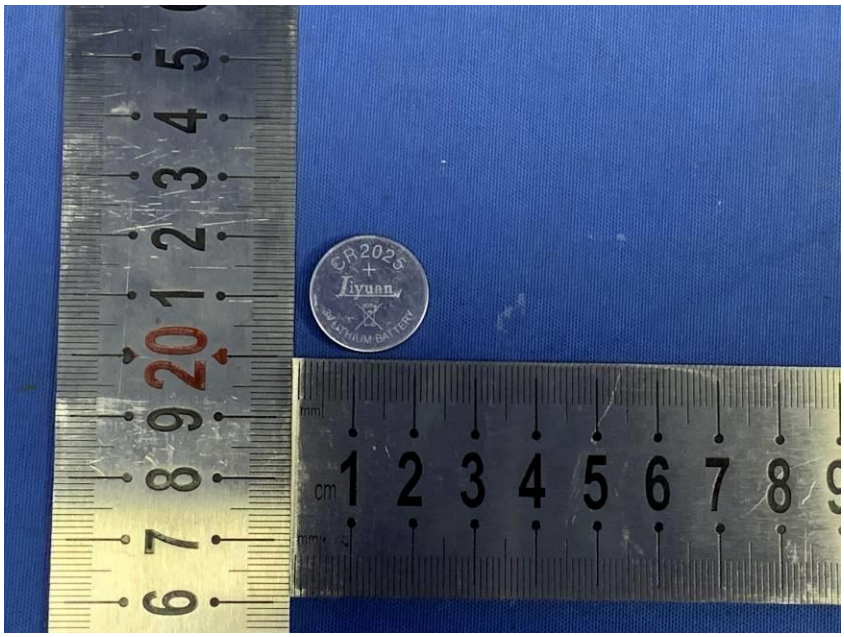
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