EMC TEST REPORT

For

Hangzhou Dukang Technology CO., LTD

CloverAir Low Vision AR Glasses

Test Model: HVM016A

Additional Model No.: Please Refer To Page 9

Prepared for	:	Hangzhou Dukang Technology CO., LTD
Address	:	Room 605, Building 1, Yunhong, Wuchang Street, Yuhang District, Hangzhou City, Zhejiang, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Mail	:	webmaster@lcs-cert.com
Date of receipt of test sample	:	July 02, 2026
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	July 02, 2026-August 08, 2026
Date of Report	:	August 26, 2026

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TEST REPORT

Report No.	:	**LCSA06246090E**
Date of Issue	:	August 26, 2026
Testing Laboratory Name	:	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address	:	Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Testing Location/ Procedure	:	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name	:	**Hangzhou Dukang Technology CO., LTD**
Address	:	Room 605, Building 1, Yunhong, Wuchang Street, Yuhang District, Hangzhou City, Zhejiang, China
Test Specification		
Standard	:	IEC 60601-1:2005+AMD1:2012+AMD2:2020 IEC 61000-3-2:2018+AMD1:2020+AMD2:2024 IEC 61000-3-3:2013/AMD2:2021/COR1:2022
TRF Originator	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	:	Dated 2011-03

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Test Item Description	:	**CloverAir Low Vision AR Glasses**
Trade Mark	:	SightCare
Test Model	:	HVM016A
Result	:	**Pass**

Compiled by:	**Supervised by:**	**Approved by:**
Coco Song / File Administrator	Jelly Li / Technique principal	Gavin Liang / Manager

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TEST REPORT

Test Report No.: LCSA06246090E	August 26, 2026 Date of issue

Test Model	:	**HVM016A**
EUT	:	CloverAir Low Vision AR Glasses
Applicant	:	**Hangzhou Dukang Technology CO., LTD**
Address	:	Room 605, Building 1, Yunhong, Wuchang Street, Yuhang District, Hangzhou City, Zhejiang, China
Telephone	:	/
Fax	:	/
Manufacturer	:	**Hangzhou Dukang Technology CO., LTD**
Address	:	Room 605, Building 1, Yunhong, Wuchang Street, Yuhang District, Hangzhou City, Zhejiang, China
Telephone	:	/
Fax	:	/
Factory	:	**Hangzhou Dukang Technology CO., LTD**
Address	:	Room 605, Building 1, Yunhong, Wuchang Street, Yuhang District, Hangzhou City, Zhejiang, China
Telephone	:	/
Fax	:	/

Test Result	**Pass**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 26, 2026	Initial Issue	/

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TABLE OF CONTENTS

Test Report Description Page

1. TEST STANDARDS 6
2. SUMMARY OF STANDARDS AND RESULTS 7

2.1 Description of Standards and Results 7
2.2 Description of Test Modes 8
2.3 Description of Performance Criteria ..... 错误！未定义书签。

3. GENERAL INFORMATION 9

3.1 Description of Device (EUT) 9
3.2 Support equipment List 9
3.3 Description of Test Facility 9
3.4 Measurement Uncertainty 9

4. MEASURING DEVICES AND TEST EQUIPMENT 10
5. EMISSION TEST RESULTS (EMI) 12

5.1 Conducted disturbance at mains terminals 12
5.2 Radiated Emissions(30-1000MHz) 18
5.3 Radiated Emissions(1GHz-6GHz) 24
5.4 Voltage Fluctuations& Flicker Test 30

6. IMMUNITY TEST RESULTS (EMS) 34

6.1 Electrostatic Discharge Test 34
6.2 Continuous Radio Frequency Disturbances Test 37
6.3 Electrical Fast Transients(EFT) Test 41
6.4 Surge Test 44
6.5 Continuous Conducted Disturbances Test 47
6.6 Voltage Dips and Interruptions Test 50

7. TEST SETUP PHOTOS 53
8. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS) 58

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1. TEST STANDARDS

IEC 60601-1:2005+AMD1:2012+AMD2:2020:Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

IEC 61000-3-2:2018+AMD1:2020+AMD2:2024:Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

IEC 61000-3-3:2013/AMD2:2021/COR1:2022:Corrigendum 1 - Amendment 2 - Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection

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2. SUMMARY OF STANDARDS AND RESULTS

2.1 Description of Standards and Results

EMISSION (EMI)			
Description of Test Item	**Standard**	**Result**	**Memo**
Conducted disturbance at mains terminals	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/
Radiated Emissions(30-1000MHz)	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/
Radiated Emissions(1GHz-6GHz)	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/
Harmonic Current Emissions Test	IEC 61000-3-2:2018+AMD1:2020+AMD2:2024	N/A	For AC power port (≤16A), According to IEC 61000-3-2 Clause 7, this product belongs to exceptions of Clause 7 or Annex C. limits are not specified in this standard.
Voltage Fluctuations& Flicker Test	IEC 61000-3-3:2013/AMD2:2021/COR1:2022	PASS	/
IMMUNITY(EMS)			
Description of Test Item	**Standard**	**Result**	**Memo**
Electrostatic Discharge Test	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/
Continuous Radio Frequency Disturbances Test	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/
Electrical Fast Transients(EFT) Test	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/
Surge Test	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/
Continuous Conducted Disturbances Test	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/
Power-Frequency Magnetic Fields	IEC 60601-1:2005+AMD1:2012+AMD2:2020	N/A	Applicable only to equipment containing devices intrinsically susceptible to magnetic fields
Voltage Dips and Interruptions Test	IEC 60601-1:2005+AMD1:2012+AMD2:2020	PASS	/

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2.2 Description of Test Modes

No	Title	Description
Mode 1	Charging+Working(AC 230V/50Hz)	/

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3. GENERAL INFORMATION

3.1 Description of Device (EUT)

EUT	: CloverAir Low Vision AR Glasses
Test Model	: HVM016A
Power Supply	: For adapter: Input: 100-240V~, 50/60Hz, 0.8A Output: 5V⎓3A For CloverAir Low Vision AR Glasses: Input: 5V⎓3A Battery: 3.8V, 6000mAh, 22.8Wh
Highest Internal Frequency	: ＞108MHz
Classification of Equipment	: Group 1 Class B
Additional Model	: HVM016B, HVM016C, HVM016D
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.

3.2 Support equipment List

Equipment	Manufacturer	Model	Serial Number	Description
/	/	/	/	/

3.3 Description of Test Facility

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

3.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emission (9kHz to 150kHz)	± 2.63 dB
Radiated Emission (30MHz to 1000MHz)	± 3.48 dB
Radiated Emission (above 1000MHz)	± 3.90 dB
Voltage Fluctuations & Flicker	± 0.510%
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

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4. MEASURING DEVICES AND TEST EQUIPMENT

Conducted disturbance at mains terminals				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
EMI Test Receiver	R&S	ESR3	102312	2026-12-21
Artificial Mains	R&S	ENV216	101288	2027-05-05
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2027-05-05
EMI Test Software	Farad	EZ	/	/

Radiated Emissions(30-1000MHz)				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
EMI Test Software	AUDIX	E3	/	/
By-log Antenna	SchwarZBECK	VULB9163	01565	2027-07-12
EMI Test Receiver	R&S	ESR3	102311	2027-05-05
Broadband Preamplifier	/	BBV9745	00317	2026-11-06

Radiated Emissions(1GHz-6GHz)				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
EMI Test Software	Farad	EZ	/	/
Horn Antenna	ETS	3117	EABF-018	2027-04-10
EMI Test Receiver	R&S	ESCI7	101173	2026-10-10
Loop antenna	SchwarzZBECK	FMZB 1519B	00005	2027-07-12

Voltage Fluctuations& Flicker Test				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
HARMONICS&FLICKER MEASUREMENT SYSTEM	EVERFINE	HFM-3000	P630850CD1411116	2026-12-21
HARMONICS&FLICKER TESTING POWER SOURCE	EVERFINE	HFM-4000	P624486CD1411124	2026-12-21

Electrostatic Discharge Test				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
ESD Simulator	emtest	ESD NX30.1	111969	2027-05-18

Continuous Radio Frequency Disturbances Test				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
Vector signal generator	Agilent	N5181A	MY50143169	2026-09-26
RF POWER AMPLIFIER	OPHIR	5225R	1052	2027-05-05
RF POWER AMPLIFIER	YEAH TECH	YEAH TECH	25090001	2026-09-26

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Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	2027-07-13
Stacked Mikrowellen Log.-Per Antenna	SCHWARZBECK	STLP 9149	9149-482	2027-07-19
RS Electric field probe	narda	EP 601	611WX80208	2027-05-05
Power Sensor	Agilent	E9301H	MY41495234	2026-09-26
Power Sensor	Agilent	E9301H	MY41495616	2026-09-26
Power Meter	Agilent	E4419B	MY45104493	2026-09-26

Electrical Fast Transients(EFT) Test				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
Immunity Simulative Generator	EM TEST	UCS500-M4	0101-34	2027-05-05

Surge Test				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
Immunity Simulative Generator	EM TEST	UCS500-M4	0101-34	2027-05-05

Continuous Conducted Disturbances Test				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
Power frequency mag-field generator System	EVERFiNE	EMS61000-8K	906003	2027-05-05

Voltage Dips and Interruptions Test				
Equipment	**Manufacturer**	**Model No**	**Serial No.**	**Due Date**
Three phase power supply fault simulator	HTEC	HPFS 2003P	234711	2027-01-05
Programmable AC fault power supply	HTEC	HV3P200T	234710	2027-01-05

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5. EMISSION TEST RESULTS (EMI)

5.1 Conducted disturbance at mains terminals

5.1.1 Limits

class A group 1:		
Rated power of ≤20 kVA		
Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz~500 kHz	79	66
500 kHz~5 MHz	73	60
5 MHz~30 MHz	73	60
Rated power of >20 kVA and≤75kVA		
Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz~500 kHz	100	90
500 kHz~5 MHz	86	76
5 MHz~30 MHz	90 decreasing logarithm of 73	80 linearly with frequency to 60
High power electronicsystems and equipment, Rated power of >75 KVA		
Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz~500 kHz	130	120
500 kHz~5 MHz	125	115
5 MHz~30 MHz	115	105
class B group 1:		
Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz~500 kHz	66 Decreasing linearly with logarithm of frequency to 56	56 Decreasing linearly with logarithm of frequency to 46
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50
Notes: 1. The lower limit shall apply at the transition frequencies.		

5.1.2 Test procedure

(1) The EUT placement requires reference to the test block diagram and is placed on a non-metallic table.

(2)Setup the EUT and assistant equipment as shown above block diagram and equipment list.

(3)The EUT's power adapter was connected to the power mains through a line impedance stabilization network (L.I.S.N). which this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted disturbance. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to CISPR 11 on conducted disturbance emission test.

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(4)The bandwidth of test receiver is set at 9 kHz.

(5)The frequency range from 150 kHz to 30 MHz is checked.

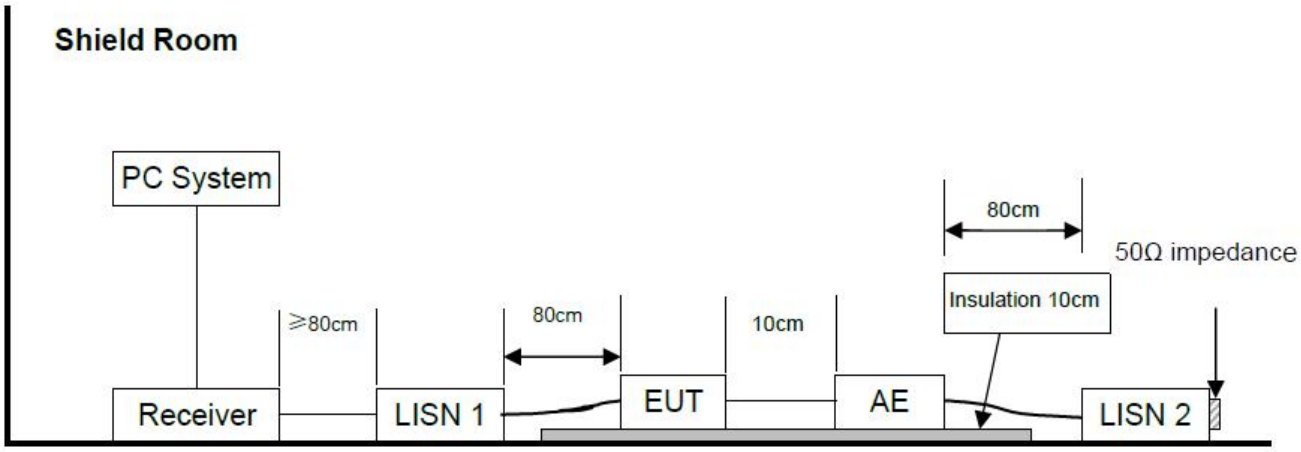
(6) Note: 1) Pre-scan all modes and recorded the worst case results in this report.

2) Margin= Reading level + Correct factor–Limit

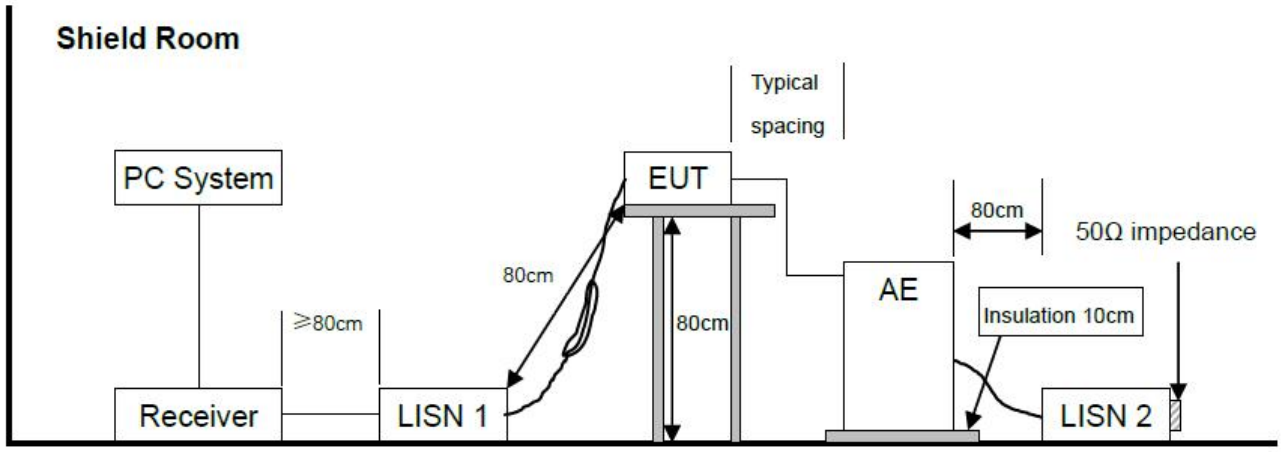
Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limitter

5.1.3 Test Setup Diagram

For floor standing equipment

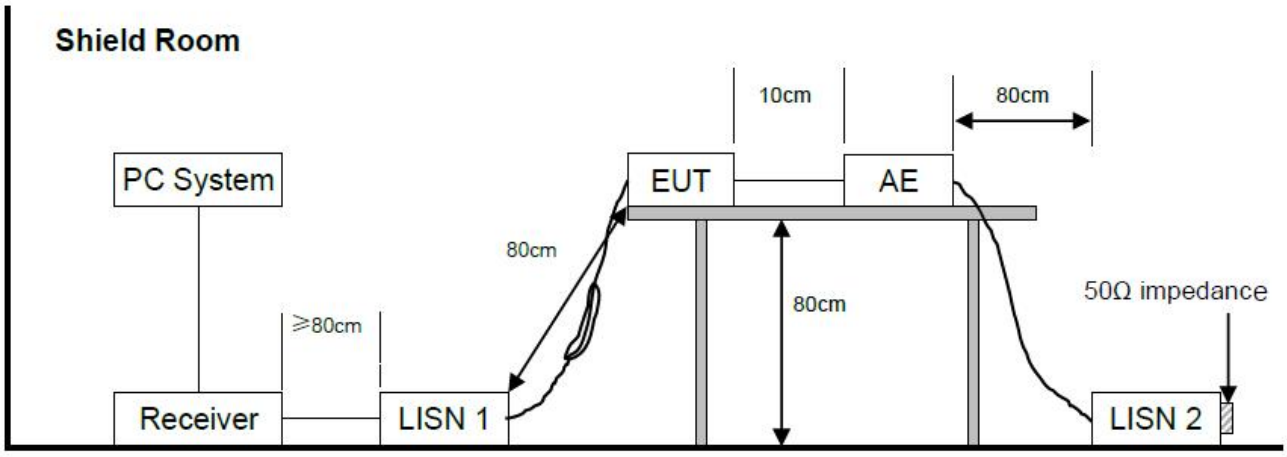


For combinations equipment



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For table-top equipment



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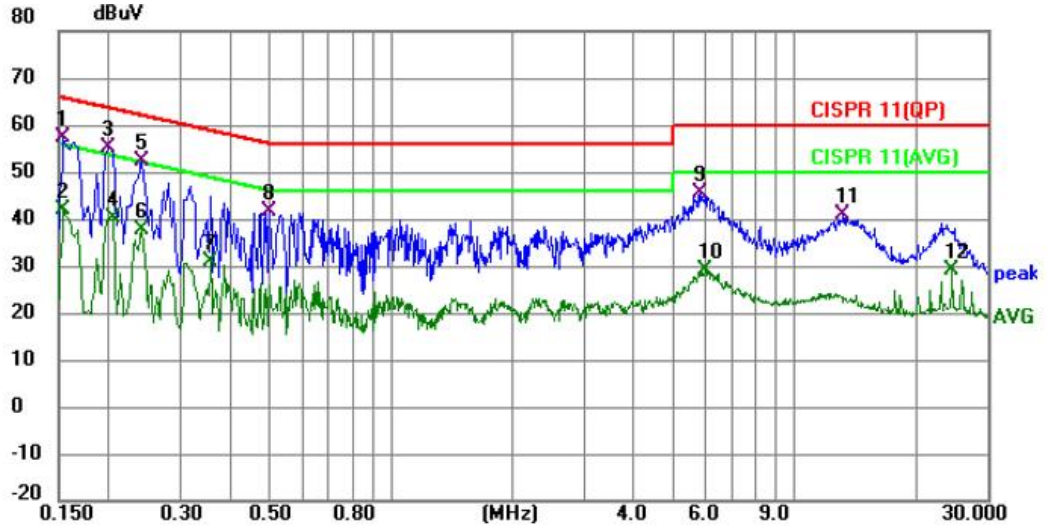
5.1.4 E.U.T. Operation

Operating Environment:			
Temperature:	24.2° C	Humidity:	54.9%RH
Test Engineer	Fu Ding		
Mode 1	Charging+Working	Voltage	AC 230V/50Hz

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5.1.5 Test data

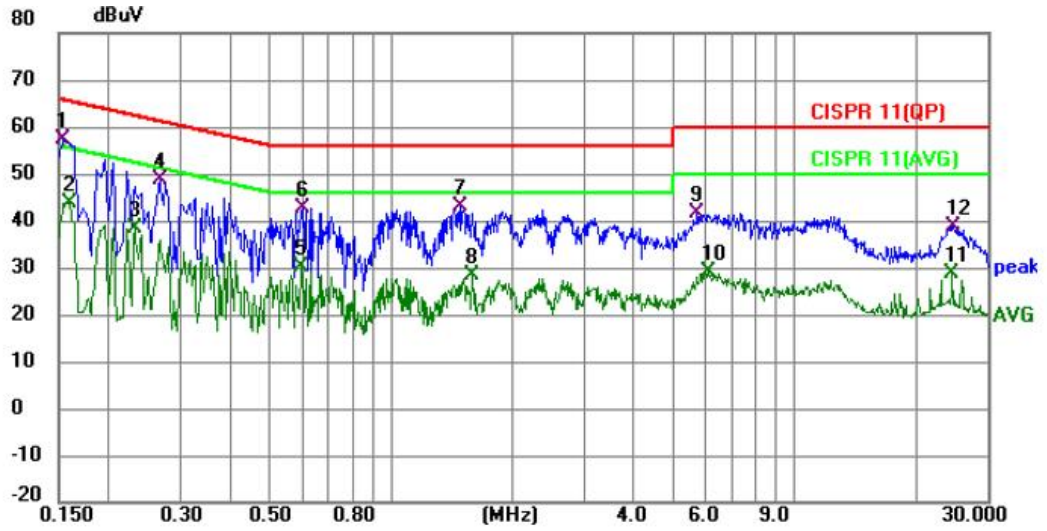
Mode 1 / Line: Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1545	36.89	20.30	57.19	65.75	-8.56	QP	
2		0.1545	21.70	20.30	42.00	55.75	-13.75	AVG	
3	*	0.1995	34.86	20.34	55.20	63.63	-8.43	QP	
4		0.2040	19.67	20.34	40.01	53.45	-13.44	AVG	
5		0.2400	32.13	20.35	52.48	62.10	-9.62	QP	
6		0.2400	17.18	20.35	37.53	52.10	-14.57	AVG	
7		0.3570	10.50	20.29	30.79	48.80	-18.01	AVG	
8		0.4965	21.34	20.12	41.46	56.06	-14.60	QP	
9		5.8290	25.03	20.53	45.56	60.00	-14.44	QP	
10		5.9685	8.56	20.52	29.08	50.00	-20.92	AVG	
11		13.1505	20.33	20.55	40.88	60.00	-19.12	QP	
12		24.5490	8.14	20.85	28.99	50.00	-21.01	AVG	

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Mode 1 / Line: Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1545	36.88	20.32	57.20	65.75	-8.55	QP	
2		0.1590	23.35	20.32	43.67	55.52	-11.85	AVG	
3		0.2310	18.08	20.34	38.42	52.41	-13.99	AVG	
4		0.2670	28.56	20.35	48.91	61.21	-12.30	QP	
5		0.5955	9.79	20.23	30.02	46.00	-15.98	AVG	
6		0.6045	22.44	20.23	42.67	56.00	-13.33	QP	
7		1.4865	22.47	20.48	42.95	56.00	-13.05	QP	
8		1.5855	7.93	20.51	28.44	46.00	-17.56	AVG	
9		5.7165	20.96	20.54	41.50	60.00	-18.50	QP	
10		6.1305	8.59	20.56	29.15	50.00	-20.85	AVG	
11		24.5355	7.84	20.77	28.61	50.00	-21.39	AVG	
12		24.7065	18.05	20.77	38.82	60.00	-21.18	QP	

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5.2 Radiated Emissions(30-1000MHz)

5.2.1 Limits

class A group 1			
Rated power	Frequency	Field Strengths Limits at 10m measuring distance dB(μV)/m	Field Strengths Limits at 3m measuring distance dB(μV)/m
≤ 20 kVA	30MHz to 230MHz	40	50
	230MHz to 1GHz	47	57
> 20 kVA	30MHz to 230MHz	50	60
	230MHz to 1GHz	50	60
class B group 1			
Rated power	Frequency	Field Strengths Limits at 10m measuring distance dB(μV)/m	Field Strengths Limits at 3m measuring distance dB(μV)/m
/	30MHz to 230MHz	30	40
	230 MHz to 1 GHz	37	47
Note: (1) The smaller limit shall apply at the cross point between two frequency bands. (2) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			

5.2.2 Test procedure

(1) The EUT was placed on a non-metallic table (Refer to the 'Block diagram of test setup'). above the ground plane inside an anechoic chamber.

(2) Test antenna center was located 3m or 10m from the EUT and assistant equipment boundary (imaginary circular periphery) on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to CISPR 11 on radiated emission test.

(3) Spectrum frequency from 30 MHz to 1 GHz was investigated.

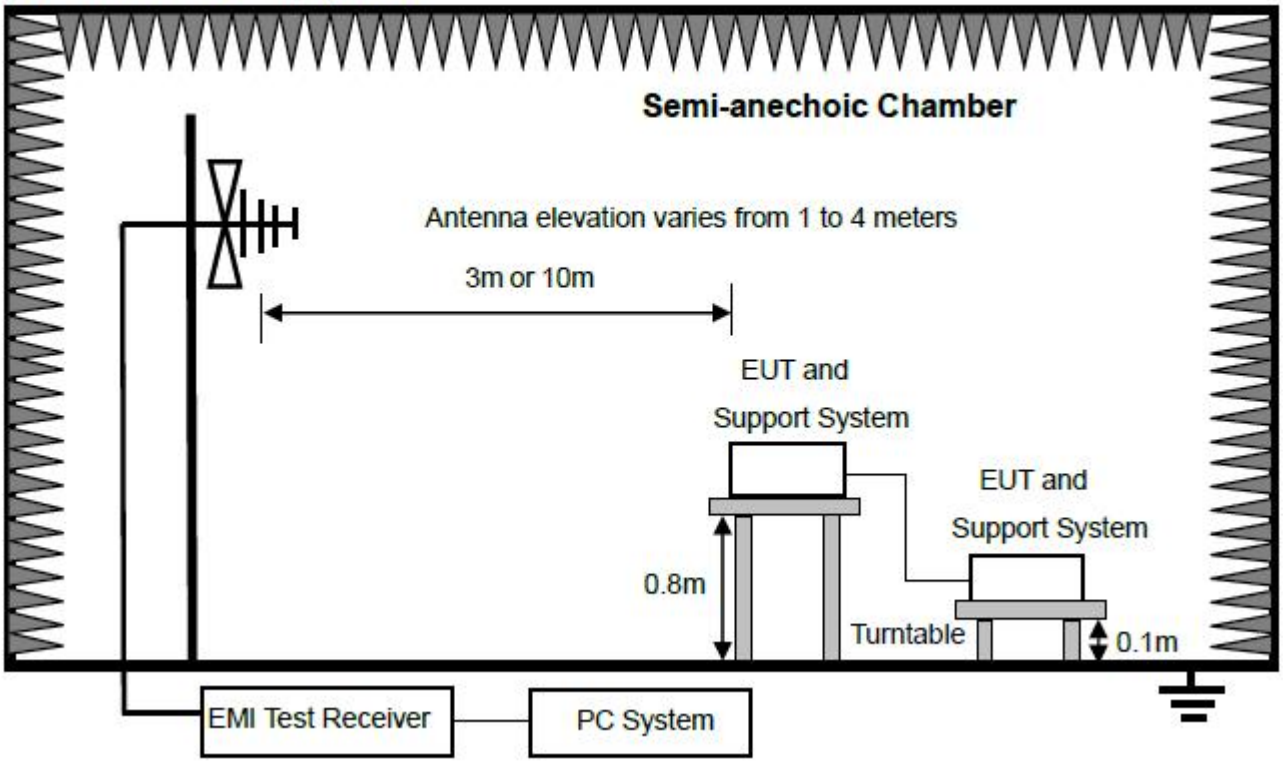
(4) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to CISPR 11 on Radiated Emission test.

(5) For emissions from 30 MHz to 1 GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 kHz.

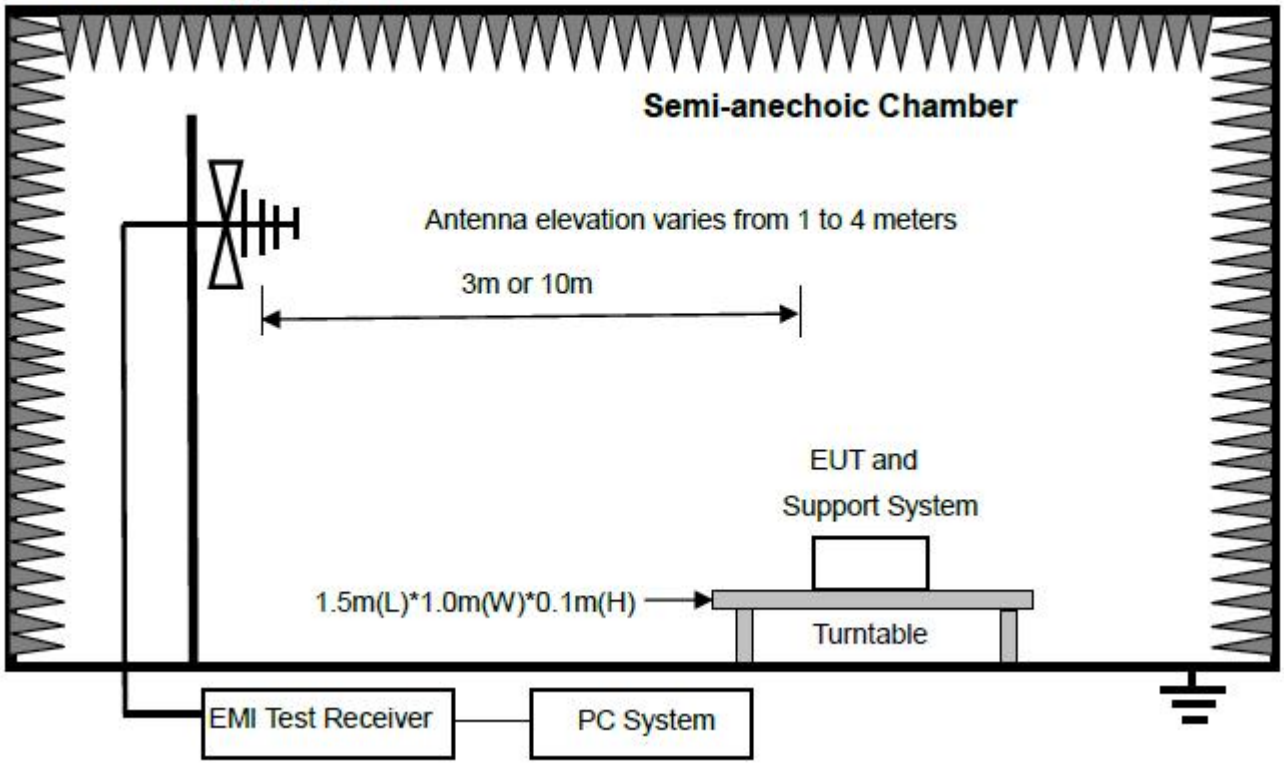
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5.2.3 Test Setup Diagram

For combinations equipment



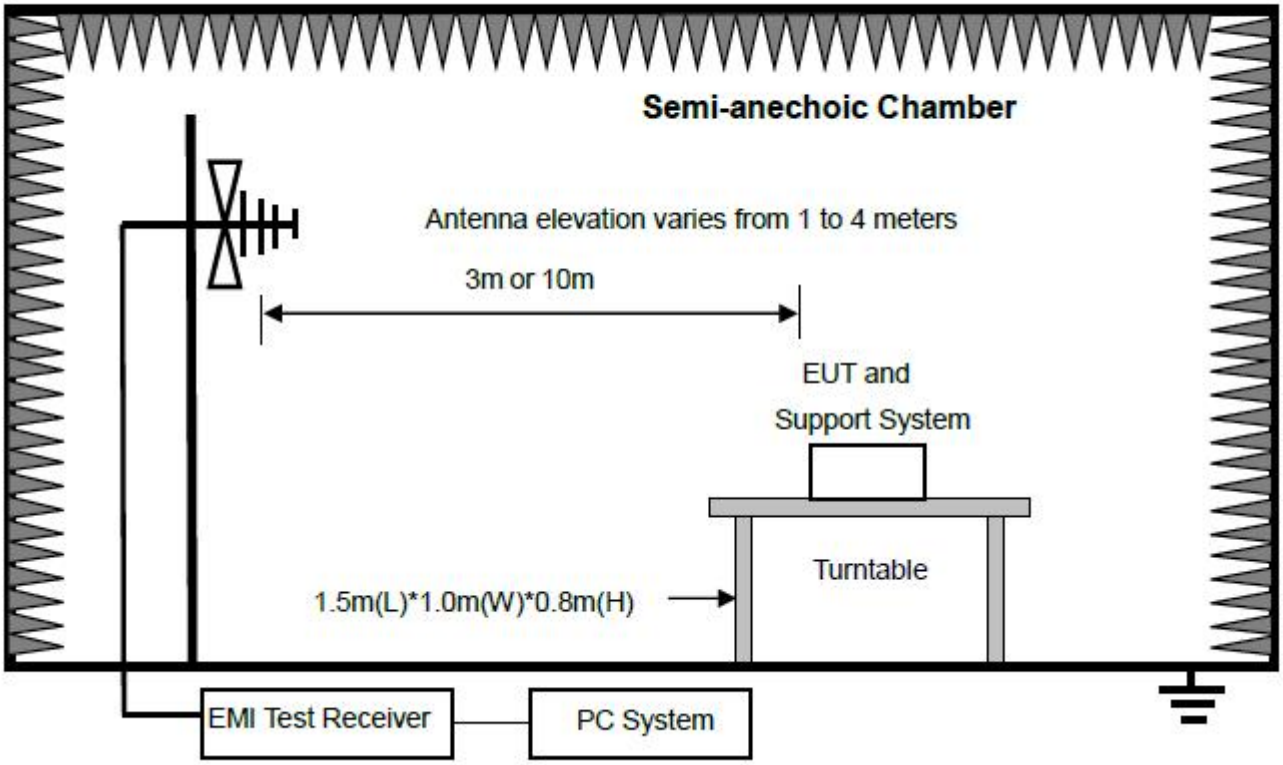
For floor standing equipment



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Below 1 GHz

For table-top equipment



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5.2.4 E.U.T. Operation

Operating Environment:			
Temperature:	26° C	Humidity:	54%RH
Test Engineer	Fu Ding		
Mode 1	Charging+Working	Voltage	AC 230V/50Hz

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5.2.5 Test data

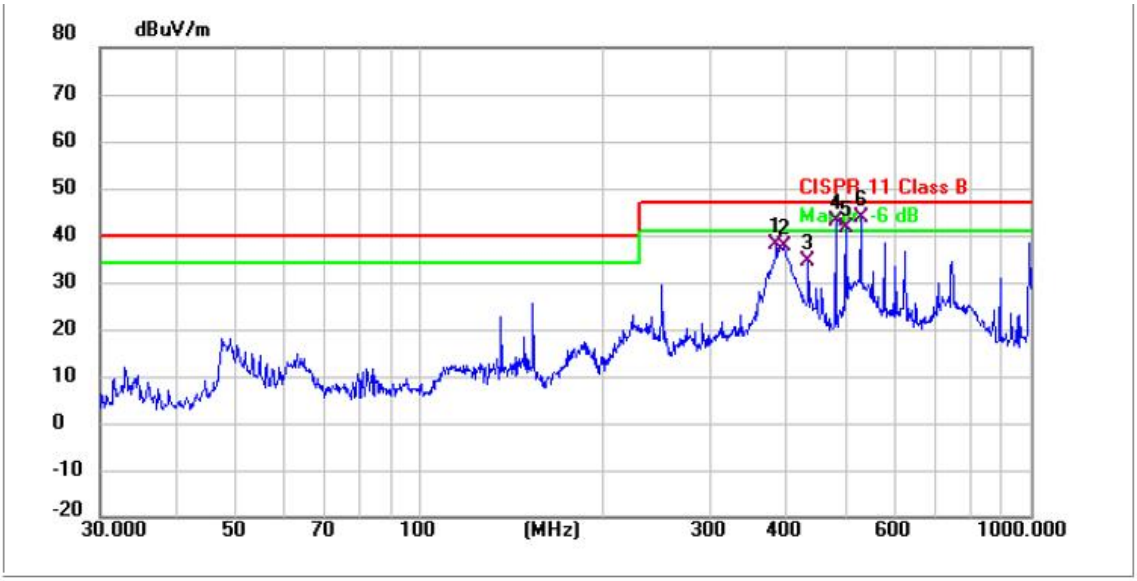
Mode 1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	33.0950	51.91	-20.90	31.01	40.00	-8.99	QP	P	
2	50.4089	46.78	-18.53	28.25	40.00	-11.75	QP	P	
3	51.8430	45.19	-18.46	26.73	40.00	-13.27	QP	P	
4	63.7588	47.24	-21.06	26.18	40.00	-13.82	QP	P	
5	148.4410	52.20	-22.88	29.32	40.00	-10.68	QP	P	
6 *	480.5276	54.49	-13.43	41.06	47.00	-5.94	QP	P	

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Mode 1 / Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	383.9318	52.71	-14.61	38.10	47.00	-8.90	QP	P	
2	394.8545	52.24	-14.54	37.70	47.00	-9.30	QP	P	
3	432.5457	48.36	-14.06	34.30	47.00	-12.70	QP	P	
4 !	480.5276	56.44	-13.43	43.01	47.00	-3.99	QP	P	
5 !	499.4247	55.06	-13.36	41.70	47.00	-5.30	QP	P	
6 *	528.2458	55.79	-12.14	43.65	47.00	-3.35	QP	P	

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5.3 Radiated Emissions(1GHz-6GHz)

5.3.1 Limits

group 1 Class A			
Equipment	Frequency	Field Strengths Limits at 10m measuring distance dB(μV)/m	Field Strengths Limits at 3m measuring distance dB(μV)/m
Class A Equipment	1 GHz to 3 GHz	/	Average:56; Peak:76
	3 GHz to 6 GHz	/	Average:60; Peak:80
group 1 Class B			
Equipment	Frequency	Field Strengths Limits at 10m measuring distance dB(μV)/m	Field Strengths Limits at 3m measuring distance dB(μV)/m
Class B Equipment	1 GHz to 3 GHz	/	Average:50; Peak:70
	3 GHz to 6 GHz	/	Average:54; Peak:74
*: These relaxed limits apply only to emission at the fundamental and harmonic frequencies of the local oscillator signals at all other frequencies shall be compliant with the limits of class B equipment given above. Note: (1) The smaller limit shall apply at the cross point between two frequency bands. (2) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			

5.3.2 Test procedure

(1) The EUT was placed on a non-metallic table (Refer to the 'Block diagram of test setup'). above the ground plane inside an anechoic chamber.

(2) Test antenna center was located 3m or 10m from the EUT and assistant equipment boundary (imaginary circular periphery) on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to CISPR 11:2024 on radiated emission test.

(3) Spectrum frequency from 1 GHz to 6 GHz was investigated.

(4) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to EN 55032 on Radiated Emission test.

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(5) For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz VBW is set at 3 MHz.(6) Note:1) Pre-Scan all mode, Thus record worse case mode result in this report.

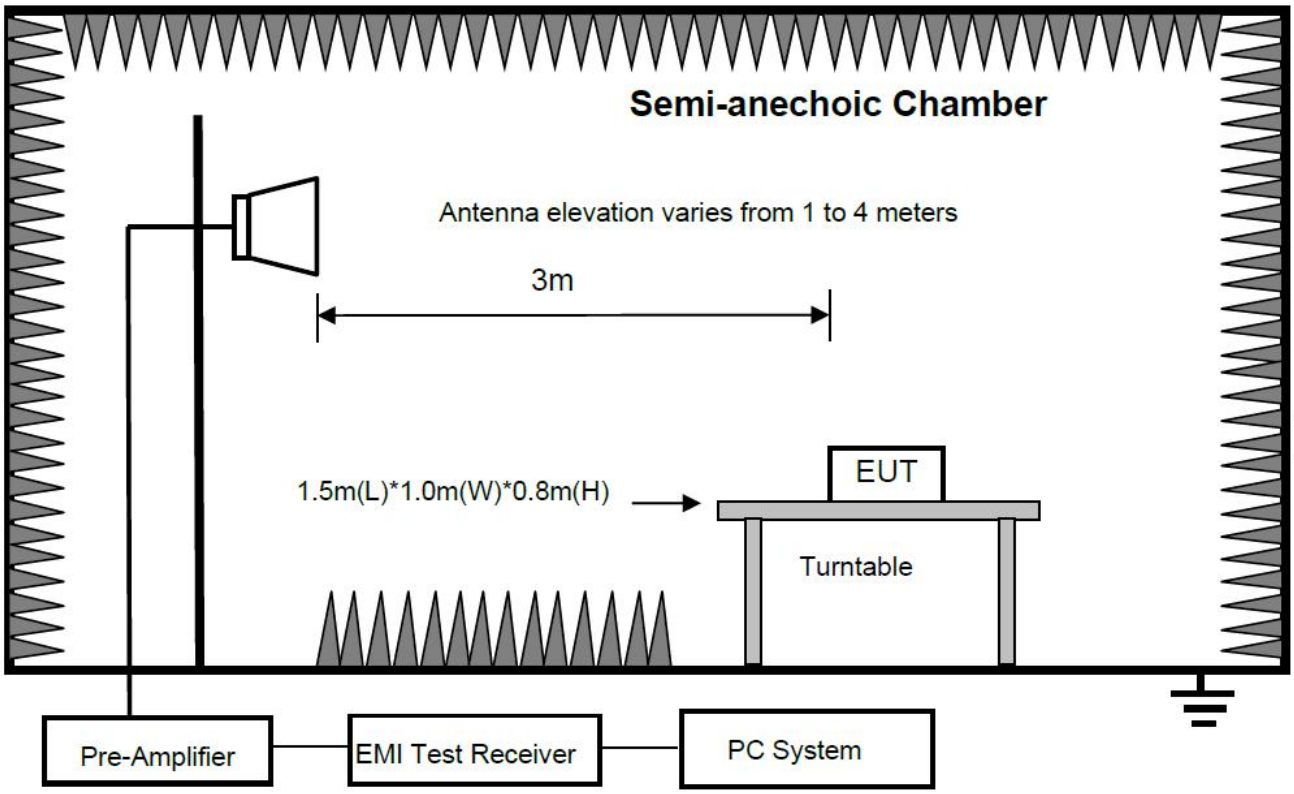
2) Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor

5.3.3 Test Setup Diagram

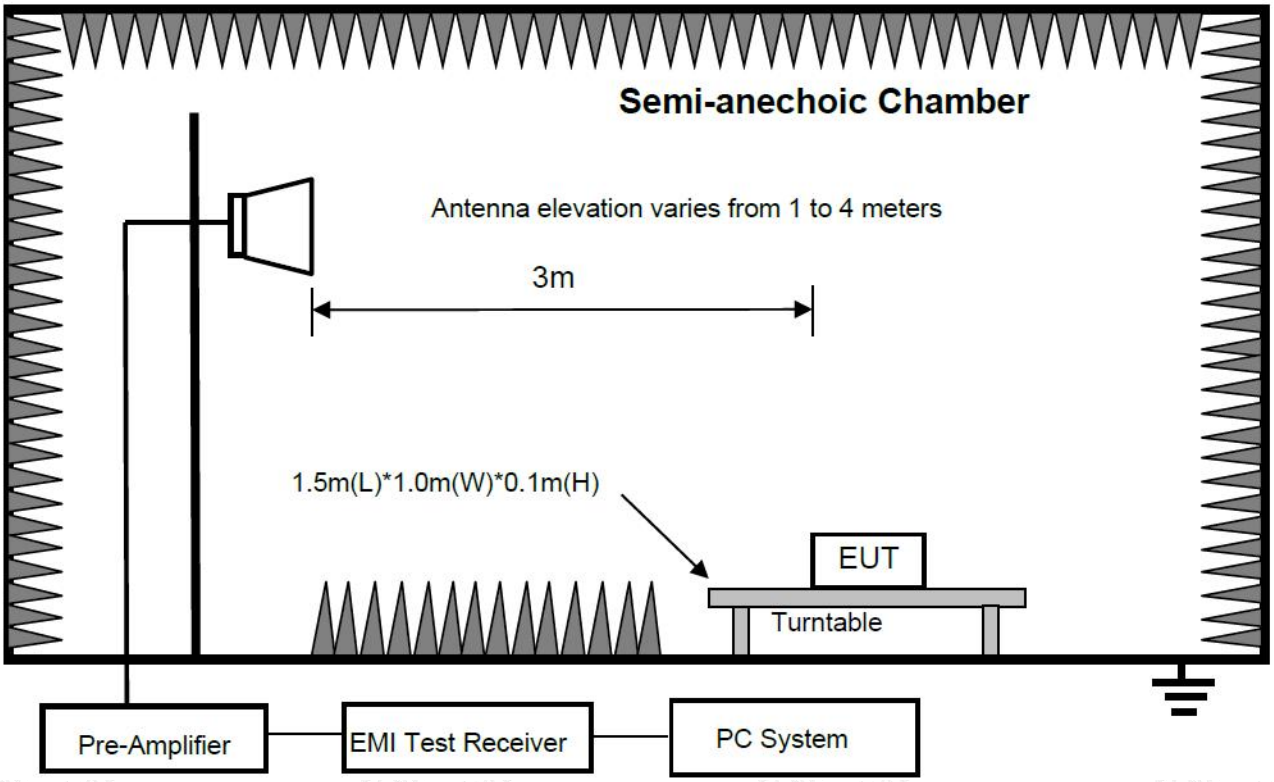
Above 1 GHz

For table-top equipment

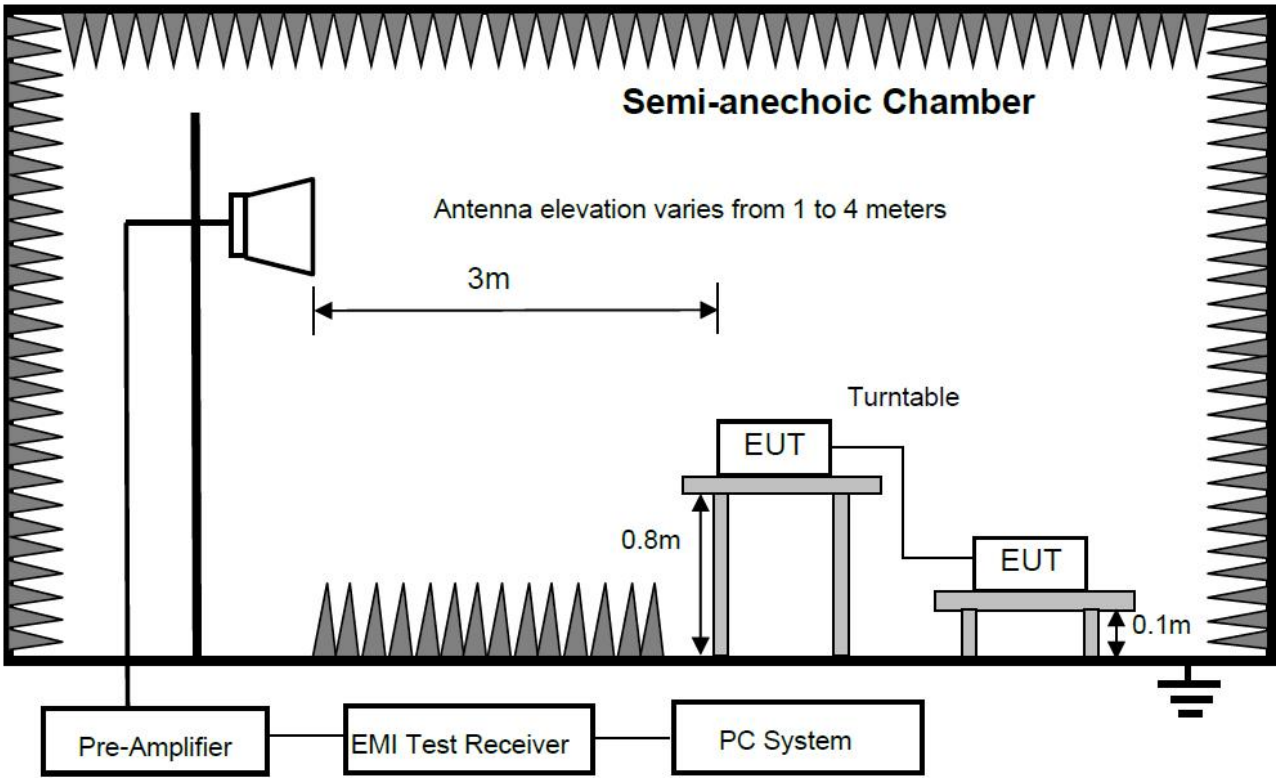


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For floor standing equipment



For combinations equipment



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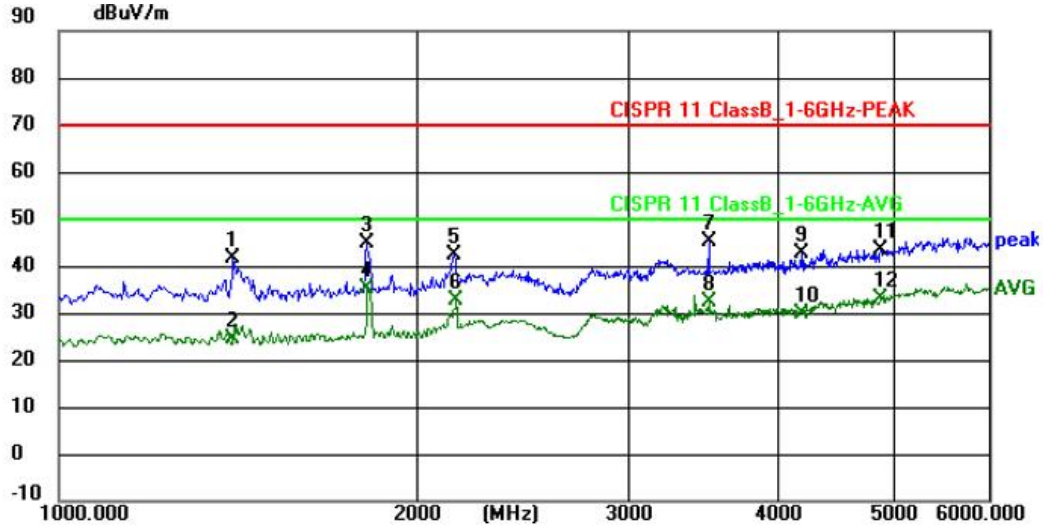
5.3.4 E.U.T. Operation

Operating Environment:			
Temperature:	23.9° C	Humidity:	52.0%RH
Test Engineer	Fu Ding		
Mode 1	Charging+Working	Voltage	AC 230V/50Hz

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5.3.5 Test data

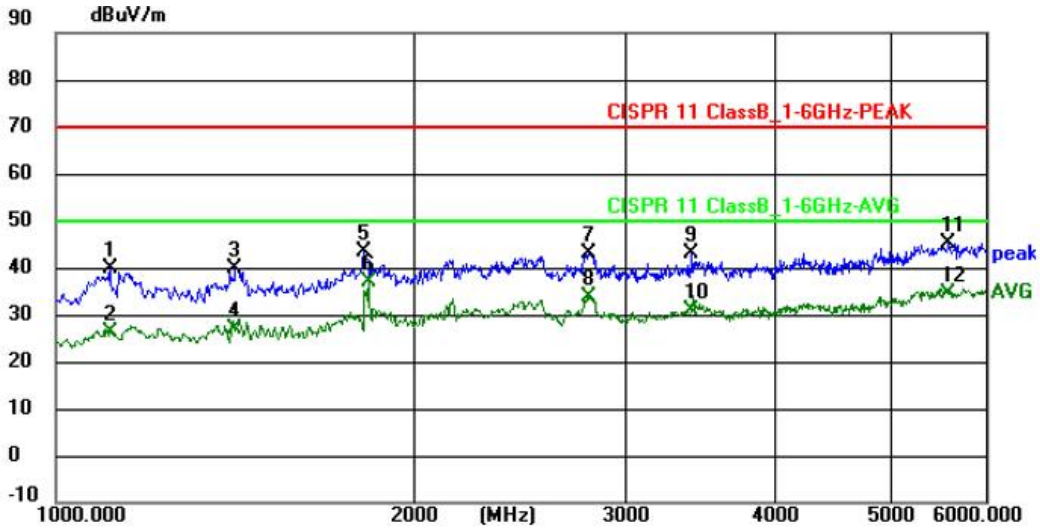
Mode 1 / Polarization: Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1400.0000	53.66	-12.23	41.43	70.00	-28.57	peak	
2		1400.0000	36.67	-12.23	24.44	50.00	-25.56	AVG	
3		1810.0000	56.95	-12.02	44.93	70.00	-25.07	peak	
4	*	1815.0000	47.19	-11.96	35.23	50.00	-14.77	AVG	
5		2145.0000	52.26	-9.94	42.32	70.00	-27.68	peak	
6		2150.0000	42.63	-9.94	32.69	50.00	-17.31	AVG	
7		3505.0000	52.36	-7.23	45.13	70.00	-24.87	peak	
8		3505.0000	39.46	-7.23	32.23	50.00	-17.77	AVG	
9		4185.0000	48.49	-5.90	42.59	70.00	-27.41	peak	
10		4185.0000	35.90	-5.90	30.00	50.00	-20.00	AVG	
11		4875.0000	47.00	-3.51	43.49	70.00	-26.51	peak	
12		4875.0000	36.63	-3.51	33.12	50.00	-16.88	AVG	

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Mode 1 / Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1110.0000	52.67	-12.97	39.70	70.00	-30.30	peak	
2		1110.0000	39.36	-12.97	26.39	50.00	-23.61	AVG	
3		1415.0000	52.29	-12.34	39.95	70.00	-30.05	peak	
4		1415.0000	39.29	-12.34	26.95	50.00	-23.05	AVG	
5		1810.0000	55.27	-12.02	43.25	70.00	-26.75	peak	
6	*	1825.8236	48.70	-11.83	36.87	50.00	-13.13	AVG	
7		2795.0000	51.00	-7.96	43.04	70.00	-26.96	peak	
8		2795.0000	41.71	-7.96	33.75	50.00	-16.25	AVG	
9		3410.0000	50.87	-7.66	43.21	70.00	-26.79	peak	
10		3410.0000	38.56	-7.66	30.90	50.00	-19.10	AVG	
11		5595.0000	46.52	-1.37	45.15	70.00	-24.85	peak	
12		5595.0000	36.00	-1.37	34.63	50.00	-15.37	AVG	

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5.4 Voltage Fluctuations& Flicker Test

5.4.1 Limits

Voltage fluctuations & flicker Limit

Test Item	Limit	Note
Pst	1.0	Pst means Short-term flicker indicator
Plt	0.65	Plt means long-term flicker indicator
Tdt	0.5	Tdt means maximum time that dt exceeds 3.3%
dmax (%)	4%	dmax means maximum relative voltage change.
dc (%)	3.3%	dc means relative steady-state voltage change.

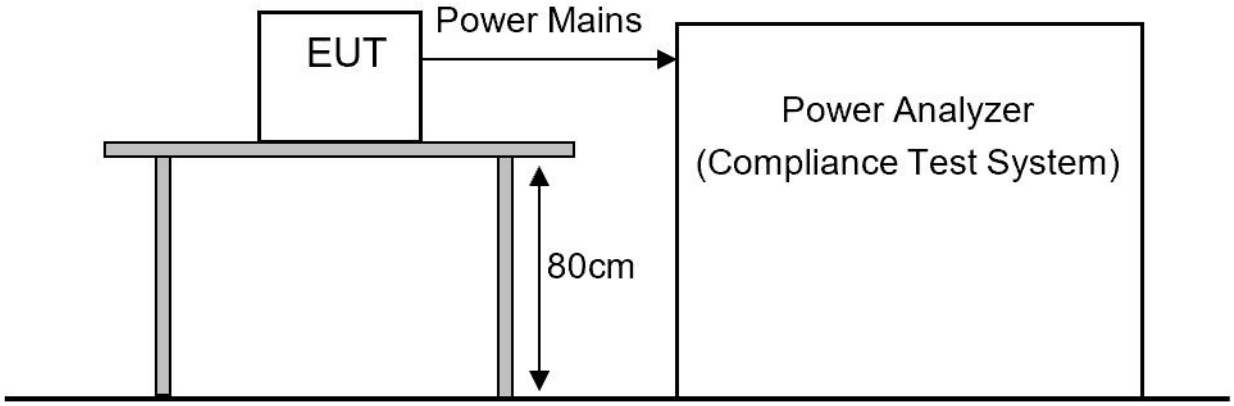
5.4.2 Test procedure

The EUT is placed on top of a wooden table (according to the standard height requirements, refer to the test layout), the most unfavorable sequence of voltage changes under normal conditions during the flick measurement; the measure time shall include that part of whole operation changes. The observation period for short-term flicker indicator is 10 minutes and the observation period for long-term flicker indicator is 2 hours.

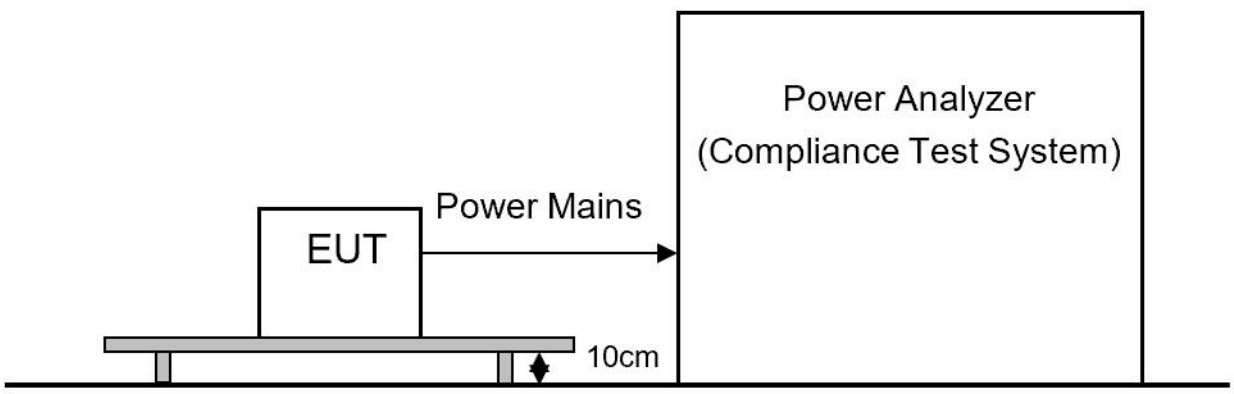
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5.4.3 Test Setup Diagram

Table-top device



Floor-standing device



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5.4.4 E.U.T. Operation

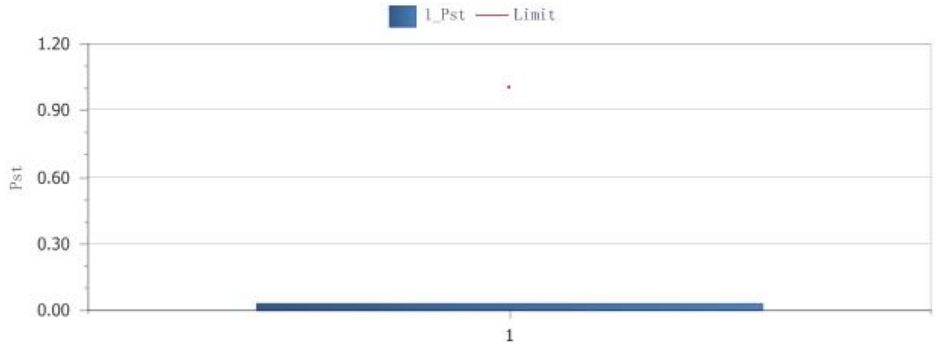
Operating Environment:			
Temperature:	24.8° C	Humidity:	55.7%RH
Test Engineer	Fu Ding		
Mode 1	Charging+Working	Voltage	AC 230V/50Hz

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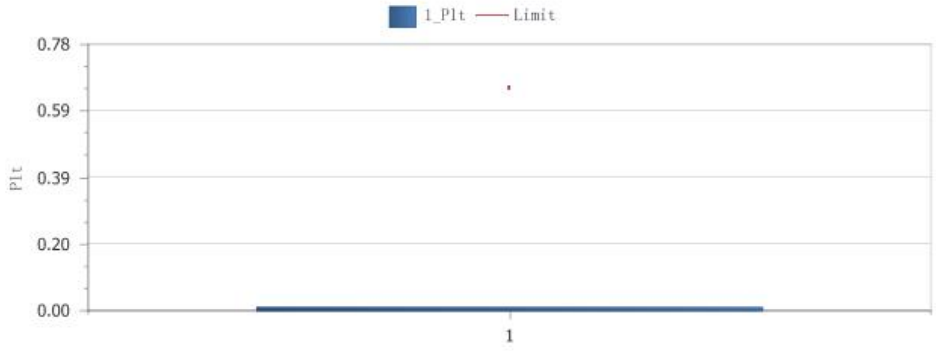
5.4.5 Test data

Mode 1

Pst and Limit



Plt and Limit



Relevant Parameter and Judgment During Test Period

Voltage at end of test	230.146V		
Voltage Fluctuation and Flicker	Test Value	Test Limit	Result
Tmax	0ms	500ms	Pass
dc	0.00%	3.30%	Pass
dmax	0.00%	4.00%	Pass
Pst	0.026	1.000	Pass
Plt	0.011	0.650	Pass

Eleml Test Parameters

Count	dc(%)	dmax(%)	Tmax(ms)	Pst	Plt
1	0.00	0.00	0.00	0.026	0.011

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6. IMMUNITY TEST RESULTS (EMS)

6.1 Electrostatic Discharge Test

6.1.1 Limits

Test Level		Performance Criteria
Air Discharge	±2kV, ±4kV, ±8kV and ±15kV	Immunity pass criteria
Contact Discharge	±8kV	
Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. After the test, the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the EUT is used as intended.		

6.1.2 Test procedure

Air Discharge:

The test was applied on non-conductive surfaces of EUT. The round discharge tip of the discharge electrode was approached as fast as possible to touch the EUT. After each discharge, the discharge electrode was removed from the EUT. The generator was re-triggered for a new single discharge and repeated 20 times for each pre-selected test point. This procedure was repeated until all the air discharge completed.

Contact Discharge:

All the procedure was same as air discharge. Except that the generator was re-triggered for a new single discharge. The tip of the discharge electrode was touching the EUT before the discharge switch was operated.

Indirect discharge for horizontal coupling plane:

At least 20 single discharges were applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

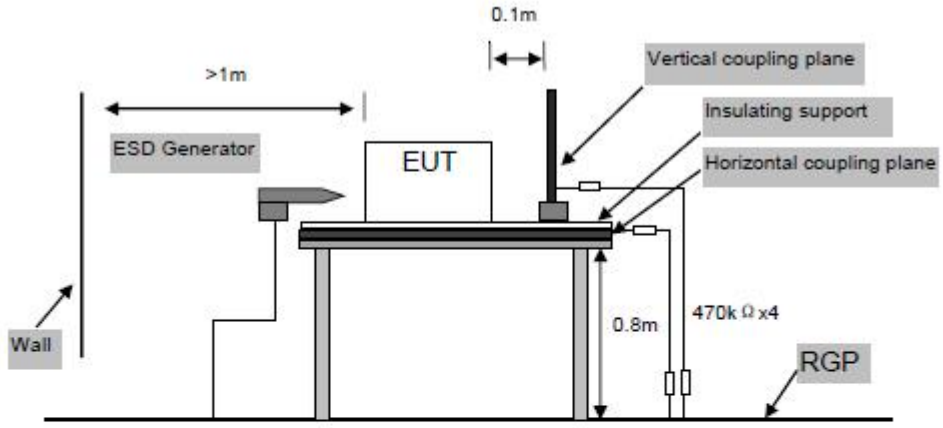
Indirect discharge for vertical coupling plane:

At least 20 single discharges were applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, was placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges were applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

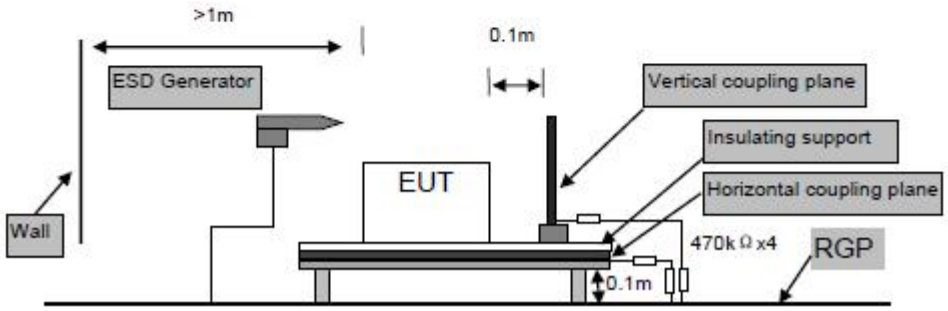
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6.1.3 Test Setup Diagram

Table-top equipment



Floor-standing equipment



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6.1.4 Test data

Operating Environment:			
Test Site:	ELECTROSTATIC DISCHARG IMMUNITY TEST （0KV-30KV）	Test Engineer	Fu Ding
Temperature:	23.6° C	Humidity:	52.2%RH
Memo:	/		

Sample No.: A260625077001	Mode 1: Charging+Working
Test voltage: AC 230V/50Hz	Memo:

Measure parameters: 20 times at each point for contact discharge; 20 times at each point for air discharge. 1 second interval for each discharge.			
Type of discharge	Test level	Test point	Result
Contact to EUT	±8kV	Front, Back, Left Right, Top, Bottom	Pass
Contact to coupling planes	±8kV	Coupling planes	Pass
Air	±2 kV /±4 kV /±8kV / ±15kV	Front, Back, Left Right, Top, Bottom	Pass

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6.2 Continuous Radio Frequency Disturbances Test

6.2.1 Limits

Swept frequency test		Performance Criteria
Frequency (MHz)	80 to 2700	Immunity pass criteria
Field Strength	3V/m rms voltage level of the unmodulated signal	
Modulation	AM modulated to a depth of 80% by a sine wave of ☒1 kHz	
Step Size	1% increments	
Dwell time	1 Sec.	
Performance criteria A description for other devices: During and after the test the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a minimum performance level specified by the manufacturer when the EUT is used as intended.		

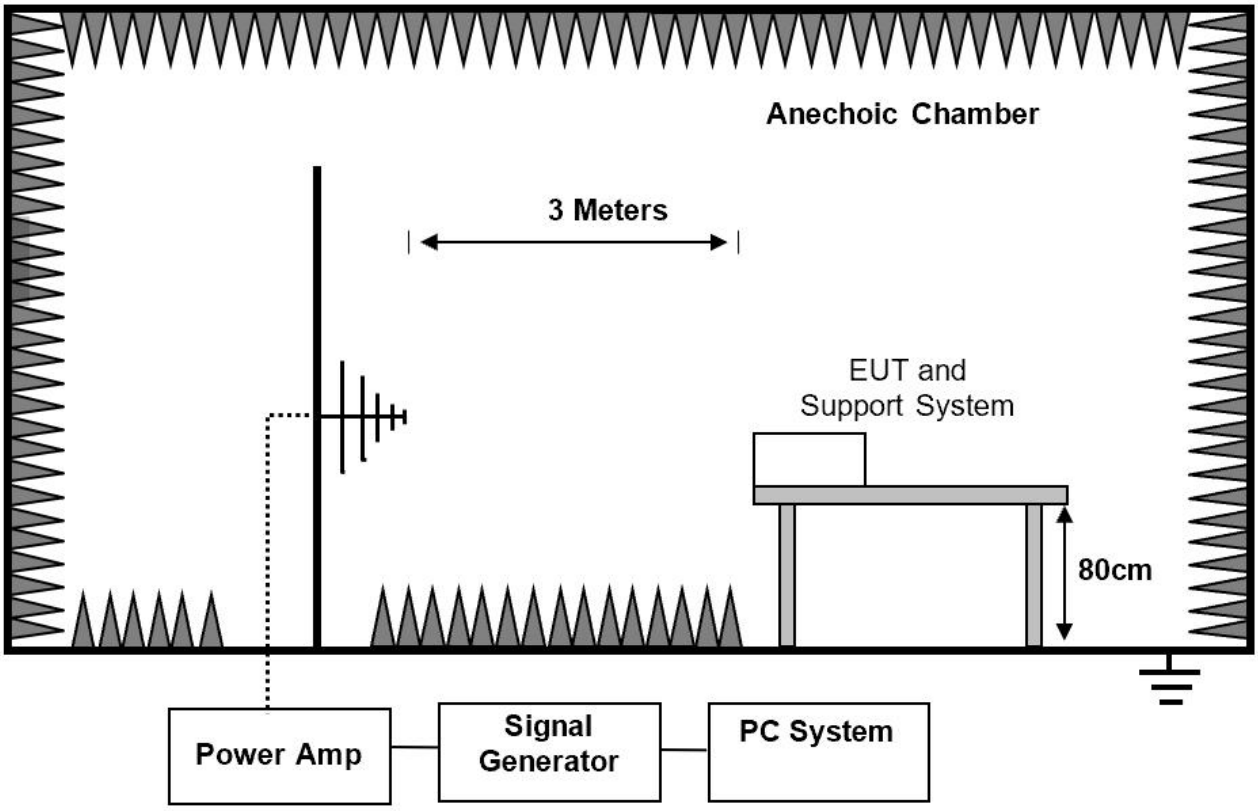
6.2.2 Test procedure

The field sensor is placed on the EUT table (Ground clearance height reference "block diagram of test setup") which is 3 meters away from the transmitting antenna. Through the signal generator, power amplifier and transmitting antenna to produce a uniformity field strength around the EUT table from frequency range specified and records the signal generator ‘s output level at the same time for whole measured frequency range. Then, put EUT and its simulators on the EUT turn table and keep them 3 meters away from the transmitting antenna which is mounted on an antenna tower and fixes at 1 meter height above the ground. Using the recorded signal generator’s output level to measure the EUT from frequency range specified and both horizontal & vertical polarization of antenna must be set and measured. Each of the four sides of EUT must be faced this transmitting antenna and measures individually.

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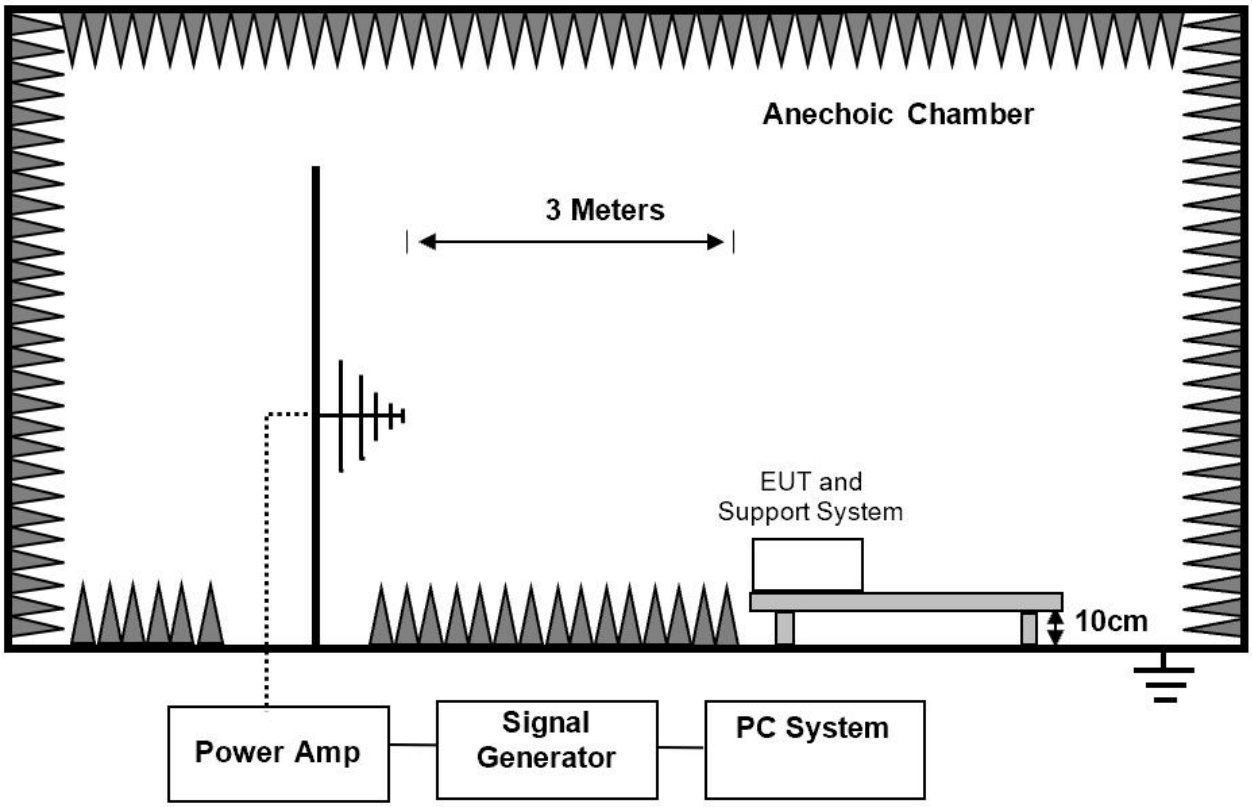
6.2.3 Test Setup Diagram

Table-top device



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Floor-standing device



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6.2.4 Test data

Operating Environment:			
Test Site:	RF FIELD STRENGTH SUSCEPTIBILITY TEST（UP TO 10V/m)	Test Engineer	Fu Ding
Temperature:	24.3° C	Humidity:	56.1%RH
Memo:	/		

Sample No.: A260625077001	Mode 1: Charging+Working
Test voltage: AC 230V/50Hz	Memo:

Test steps: 1%, Dwell time 1s, 1kHz 80% AM modulation				
Test frequency	Level	EUT position	Antenna polarization	Result
80MHz to 2700MHz	3V/m	Front	H	Pass
			V	Pass
		Left	H	Pass
			V	Pass
		Rear	H	Pass
			V	Pass
		Right	H	Pass
			V	Pass
		Top	H	Pass
			V	Pass
		Bottom	H	Pass
			V	Pass

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6.3 Electrical Fast Transients(EFT) Test

6.3.1 Limits

Test Level			Performance Criteria
Test voltage	±2kVfor AC mains port	±1kV for dc input or signal port	Immunity pass criteria
Repetition Frequency	5kHz	5kHz	
Burst Duration	15ms	15ms	
Burst Period	300ms	300ms	
Inject Time(s)	120s	120s	
Inject Method	Direct for AC mains port	Capacitive coupling clamp or CDN	
Inject Line	AC mains	Analogue/digital data ports, and DC network power ports	
Note: This test shall be additionally performed on analogue/digital data ports, and DC network power ports, of radio equipment and associated ancillary equipment, if the cables may be longer than 3 m. Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. After the test, the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the EUT is used as intended.			

6.3.2 Test procedure

The EUT and its simulators were placed on the ground reference plane and were insulated from it by a wood support 0.1m ± 0.01m thick. The ground reference plane was 1m*1m metallic sheet with 0.65mm minimum thickness. This reference ground plane was project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane was more than 0.5m. All cables to the EUT was placed on the wood support, cables not subject to EFT/B was routed as far as possible from the cable under test to minimize the coupling between the cables.

For DC input and AC power ports:

The EUT was connected to the power mains by using a coupling device that couples the EFT interference signal to AC or DC power lines. Both positive transients and negative transients of test voltage were applied during compliance test and the duration of the test can't less than 2mins.

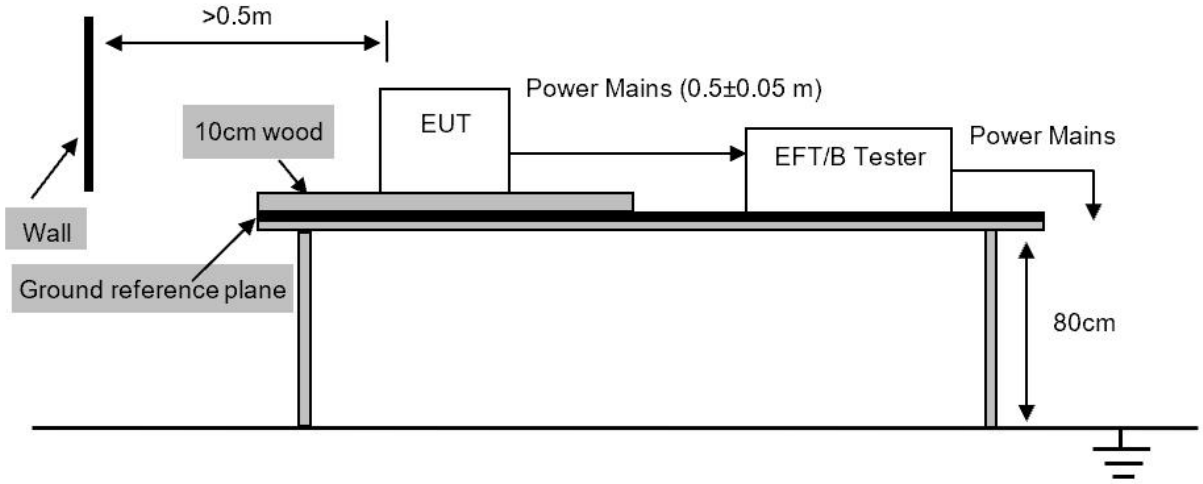
For analogue/digital data ports:

The capacitive coupling clamp was connected to the power by using a coupling device that couples the EFT interference signal to capacitive coupling clamp. Both positive transients and negative transients of test voltage were applied during compliance test and the duration of the test can't less than 2mins.

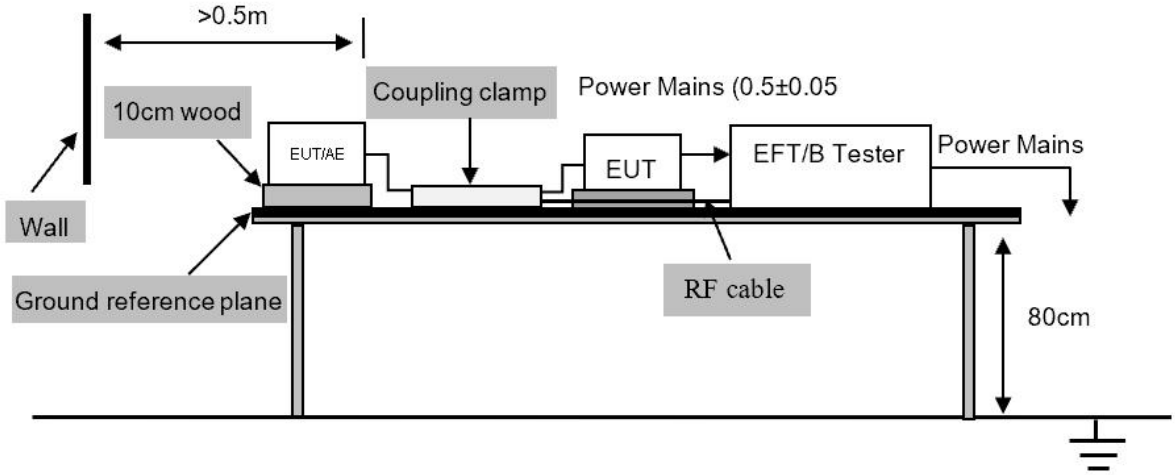
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6.3.3 Test Setup Diagram

For power port (Note: if the DC network power cable may be lengths greater than 3 m, the requirement is applicable).



For analogue/digital data ports, if the cables may be longer than 3 m.



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6.3.4 Test data

Operating Environment:			
Test Site:	ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST（UP TO 4KV)	Test Engineer	Fu Ding
Temperature:	23.6° C	Humidity:	52.2%RH
Memo:	/		

Sample No.: A260625077001	Mode 1: Charging+Working
Test voltage: AC 230V/50Hz	Memo:

Port/Coupling	Test voltage	Test time(s)	Result
AC Mains/ Direct	+1kV	120	Pass
	-1kV	120	Pass

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6.4 Surge Test

6.4.1 Limits

Test level for AC mains ports		Performance Criterion
Line to Line	1 kV 1.2/50(8/20) μs	Immunity pass criteria
Line to Ground	2 kV 1.2/50(8/20) μs	Immunity pass criteria
Note: In telecommunications centre 1 kV line to ground and 0,5 kV line to line shall be used.		
Wired network port (outdoor)		Performance Criterion
Line to Ground	1 kV 10/700(5/320) μs (symmetrically)	Immunity pass criteria
Line to Ground or Shield to Ground	1 kV 1.2/50(8/20) μs (non-symmetrically)	Immunity pass criteria
Line to Line	0.5 kV 1.2/50(8/20) μs (non-symmetrically)	Immunity pass criteria
		Performance Criterion
Line to Ground or Shield to Ground	0.5 kV 1.2/50(8/20) μs (longer than 30m)	Immunity pass criteria
Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. After the test, the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the EUT is used as intended.		

6.4.2 Test procedure

For line-to- nature coupling mode, provide a 1 kV 1.2/50 us voltage surge (at pen-circuit condition) and 8/20 us current surge to EUT selected points.

For line-to- ground coupling mode, provide a 2 kV 1.2/50 us voltage surge (at pen-circuit condition) and 8/20 us current surge to EUT selected points.

At least 5 positive and 5 negative (polarity) tests with a maximum 1-minute repetition rate are applied during test.

Different phase angles are done individually.

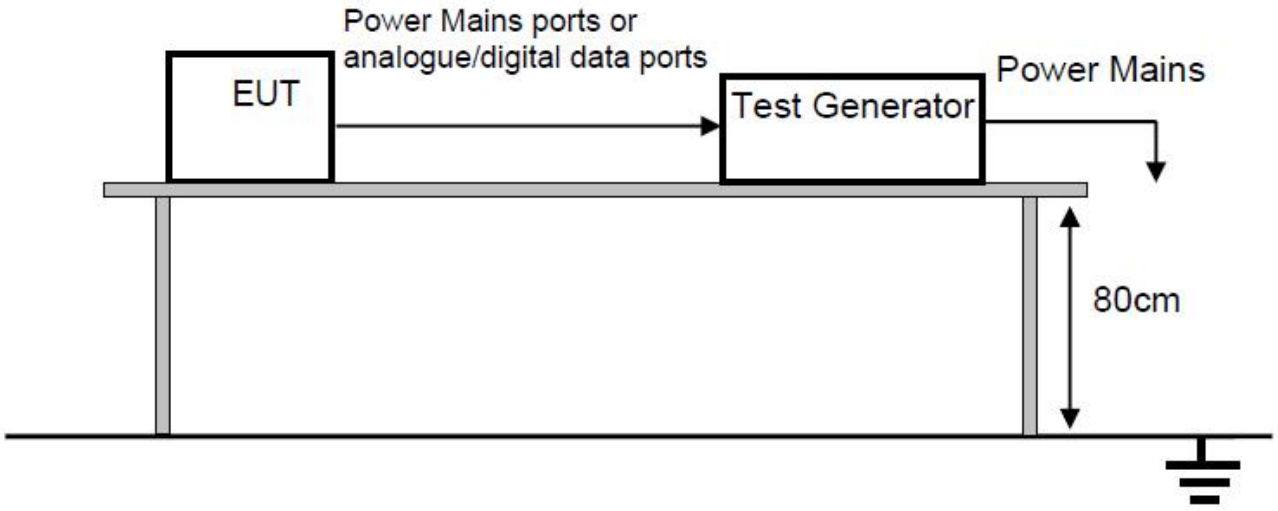
For other surge test, each line of internet port to ground coupling mode, provide a combination wave specified above table.

At least 5 positive and 5 negative (polarity) tests with a maximum 1-minute repetition rate are applied during test.

Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

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6.4.3 Test Setup Diagram



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6.4.4 Test data

Operating Environment:			
Test Site:	Surges IMMUNITY TEST	Test Engineer	Fu Ding
Temperature:	23.6° C	Humidity:	52.1%RH
Memo:	/		

Sample No.: A260625077001	Mode 1: Charging+Working
Test voltage: AC 230V/50Hz	Memo:

Test wave parameters: Wave type: 1.2/50us-8/20us; Voltage phase: 0°, 90°, 180°, 270°; Pulse times: 5 times at each polarity; Pulse interval: 60s

Line/Port	Internal impedance	Test voltage	Required	Observation	Result
L-N	2Ω	+0.5kV	B	B	Pass
	2Ω	-0.5kV	B	B	Pass
L-N	2Ω	+1kV	B	B	Pass
	2Ω	-1kV	B	B	Pass

Observation description:

B: Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.

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6.5 Continuous Conducted Disturbances Test

6.5.1 Limits

Test Level		Performance Criteria
Frequency	0.15MHz to 80MHz	**Immunity pass criteria**
Field Strength	3V measured unmodulated	
Frequency	6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz	
Field Strength	6V measured unmodulated	
Modulation	AM modulated to a depth of 80% by a sinusoidal audio signal of ☒1 kHz / ☐400 Hz (see note1)	
Step Size	1% increments	
Dwell time	>0.5 Sec.	
Note 1: If the wanted signal is modulated at 1 kHz, then the test signal of 400 Hz shall be used. Note 2: This test shall be additionally performed on signal ports, wired network ports, control ports, and DC power ports, of radio equipment and associated ancillary equipment, if the cables may be longer than 3 m. Note 3: Performance criteria A description: During and after the test the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a minimum performance level specified by the manufacturer when the EUT is used as intended.		

6.5.2 Test procedure

The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).

The disturbance signal described below is injected to EUT through CDN.

The EUT operates within its operational mode(s) under intended climatic conditions after power on.

Use the frequency range specified by the standard, interference signal level, and interference signal for testing.

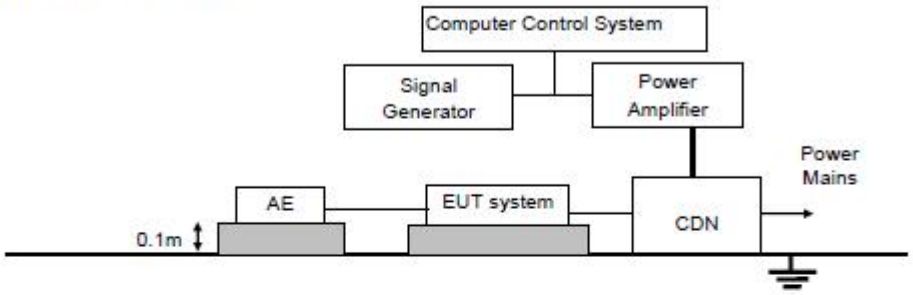
The step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

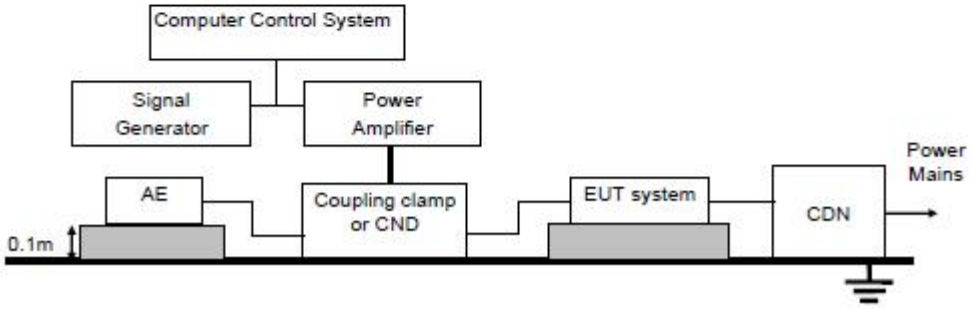
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6.5.3 Test Setup Diagram

For power port (Note: if the DC network power cable may be lengths greater than 3 m, the requirement is applicable).



For analogue/digital data ports, if the cables may be longer than 3 m.



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6.5.4 Test data

Operating Environment:			
Test Site:	MAGNETIC FIELD SUSCEPTIBILITY TEST(0-120A/m)	Test Engineer	Fu Ding
Temperature:	23.5° C	Humidity:	52.1%RH
Memo:	/		

Sample No.: A260625077001	Mode 1: Charging+Working
Test voltage: AC 230V/50Hz	Memo:

Test steps: 1%, Dwell time 1s, 1kHz 80% AM modulation

Test frequency	Injected Position	Strength	Result
0.15MHz to 80MHz	AC Port	3V	Pass
6,765 MHz to 6,795 MHz; 13,553 MHz to 13,567 MHz; 26,957 MHz to 27,283 MHz; and 40,66 MHz to 40,70 MHz	AC Port	6V	Pass

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6.6 Voltage Dips and Interruptions Test

6.6.1 Limits

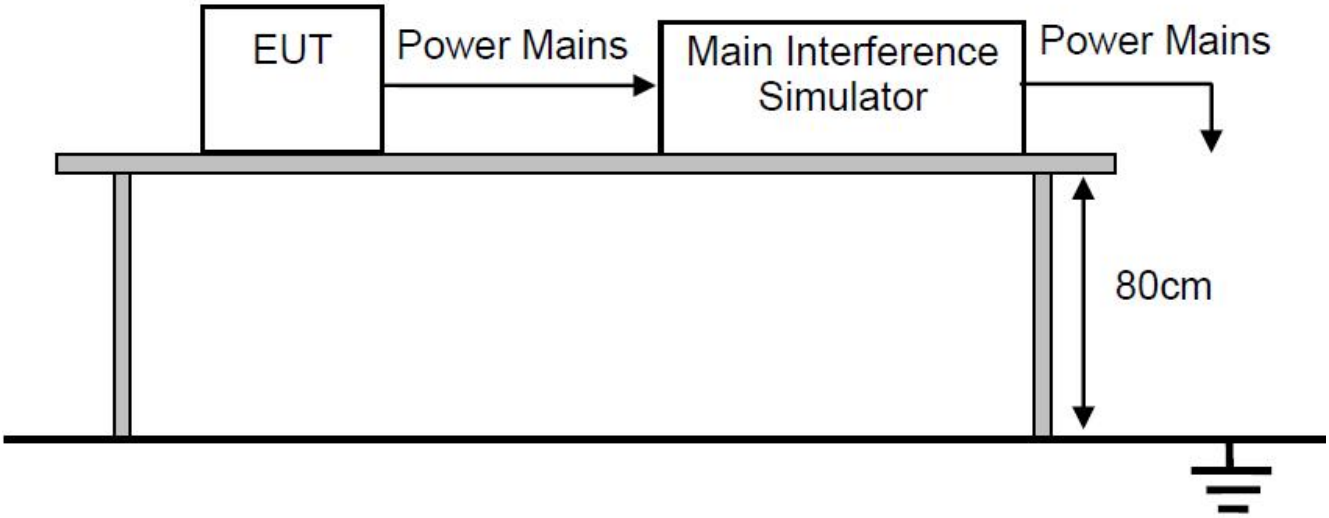
Test Level %UT	Duration (in period)	Phase (degree)	Performance Criterion
0	0.5 Cycles	0°	Immunity pass criteria
0	0.5 Cycles	45°	
0	0.5 Cycles	90°	
0	0.5 Cycles	135°	
0	0.5 Cycles	180°	
0	0.5 Cycles	225°	
0	0.5 Cycles	270°	
0	0.5 Cycles	315°	
0	1 Cycles	0°	
70	25 Cycles at 50Hz	0°	
70	30 Cycles at 60Hz	0°	
0	250 Cycles at 50Hz	0°	
0	300 Cycles at 60Hz	0°	
Performance criteria B description: During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test. After the test, the EUT shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the EUT is used as intended. Performance criteria C description: During and after testing, a temporary loss of function is allowed, provided the function is self recoverable, or can be restored by the operation of the controls or cycling of the power to the EUT by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.			

6.6.2 Test procedure

The EUT and test generator were setup as shown. The interruptions are introduced at selected phase angles with specified duration. Record any degradation of performance.

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6.6.3 Test Setup Diagram



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6.6.4 Test data

Operating Environment:			
Test Site:	VOLTAGE DIPS AND INTERRUPTIONS TEST	Test Engineer	Fu Ding
Temperature:	24.8° C	Humidity:	52.1%RH
Memo:	/		

Sample No.: A260625077001	Mode 1: Charging+Working
Test voltage: AC 230V/50Hz	Memo:

Voltage Dips & Short Interruptions %U_T	Duration (in period)	Phase (degree)	Result
0	0.5 Cycles	0°	Pass
0	0.5 Cycles	45°	Pass
0	0.5 Cycles	90°	Pass
0	0.5 Cycles	135°	Pass
0	0.5 Cycles	180°	Pass
0	0.5 Cycles	225°	Pass
0	0.5 Cycles	270°	Pass
0	0.5 Cycles	315°	Pass
0	1 Cycles	0°	Pass
70	25 Cycles at 50Hz	0°	Pass
70	30 Cycles at 60Hz	0°	Pass
0	250 Cycles at 50Hz	0°	Pass
0	300 Cycles at 60Hz	0°	Pass

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7. TEST SETUP PHOTOS

Conducted disturbance at mains terminals

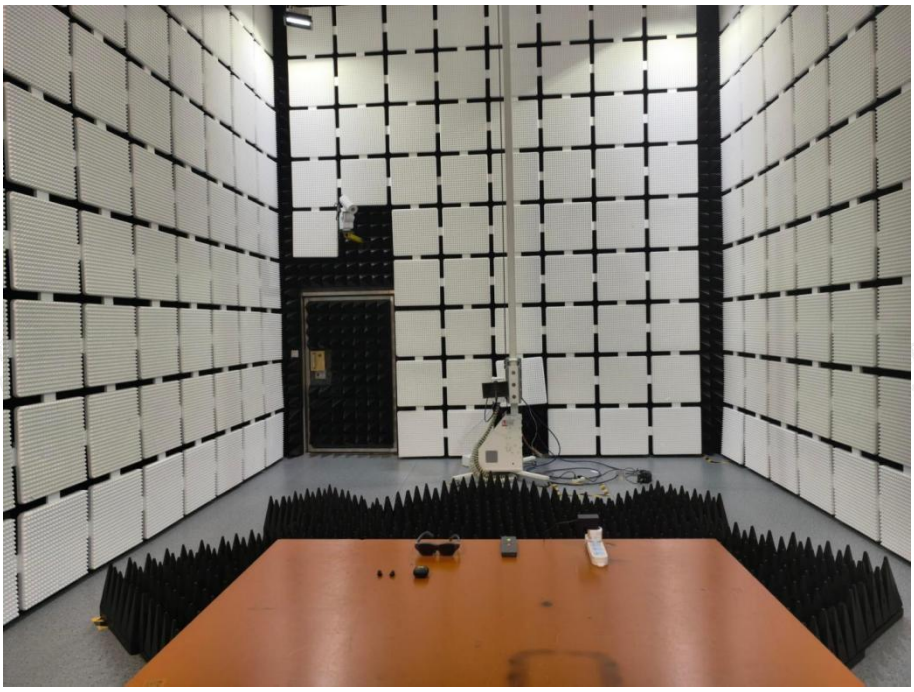


Radiated Emissions(30-1000MHz)



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Radiated Emissions(1GHz-6GHz)



Voltage Fluctuations& Flicker Test

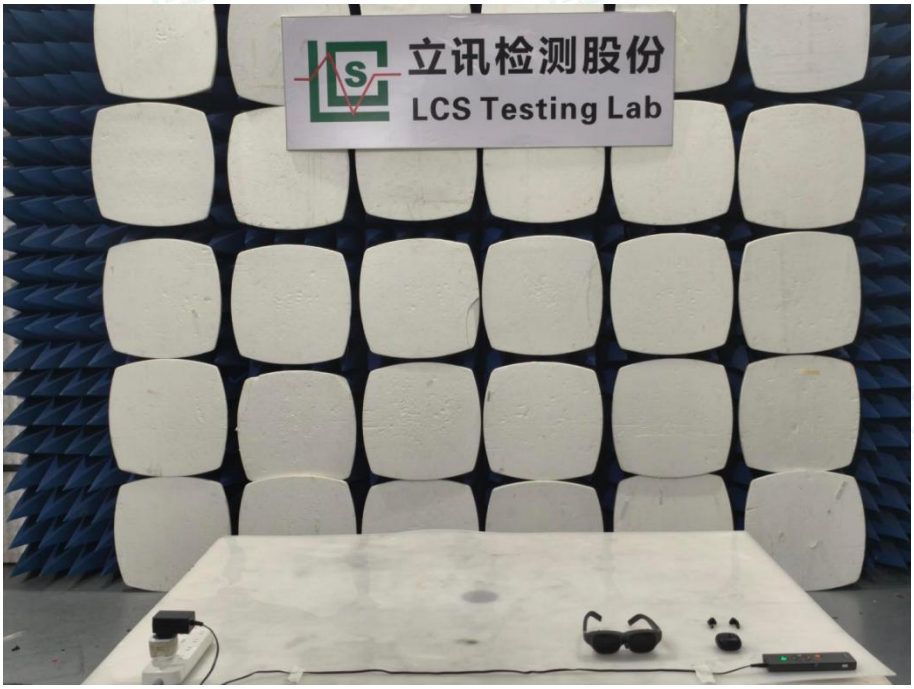


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Electrostatic Discharge Test



Continuous Radio Frequency Disturbances Test



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Electrical Fast Transients(EFT) Test



Surge Test



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Continuous Conducted Disturbances Test



Voltage Dips and Interruptions Test



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8. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)



Fig. 1



Fig. 2

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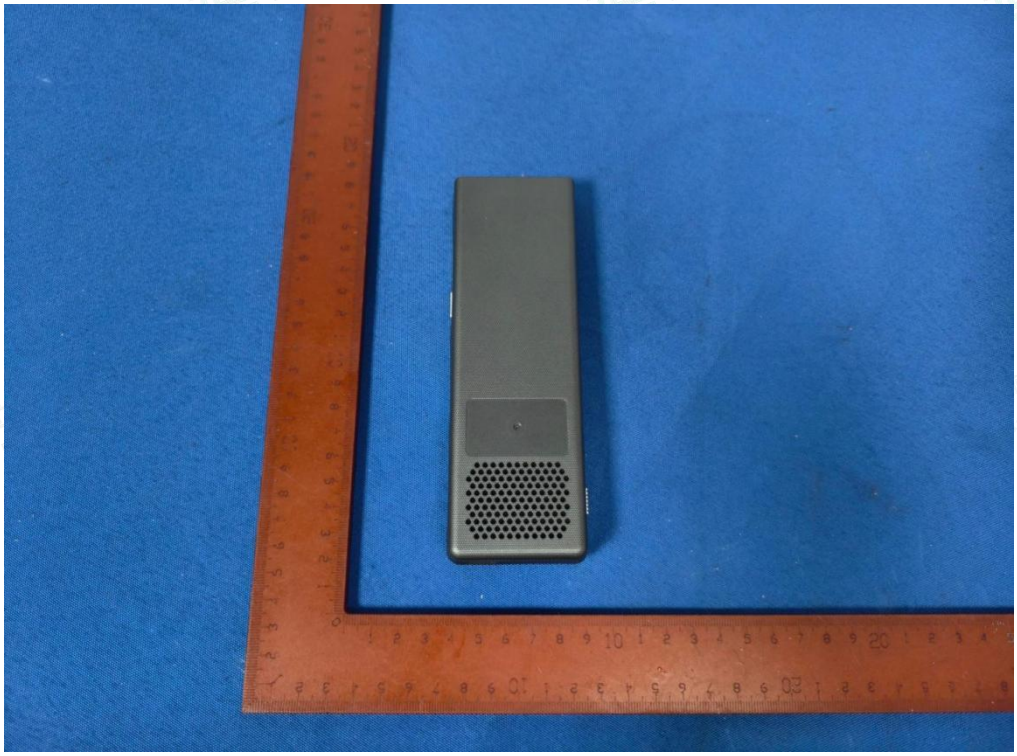


Fig. 3



Fig. 4

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Fig. 5

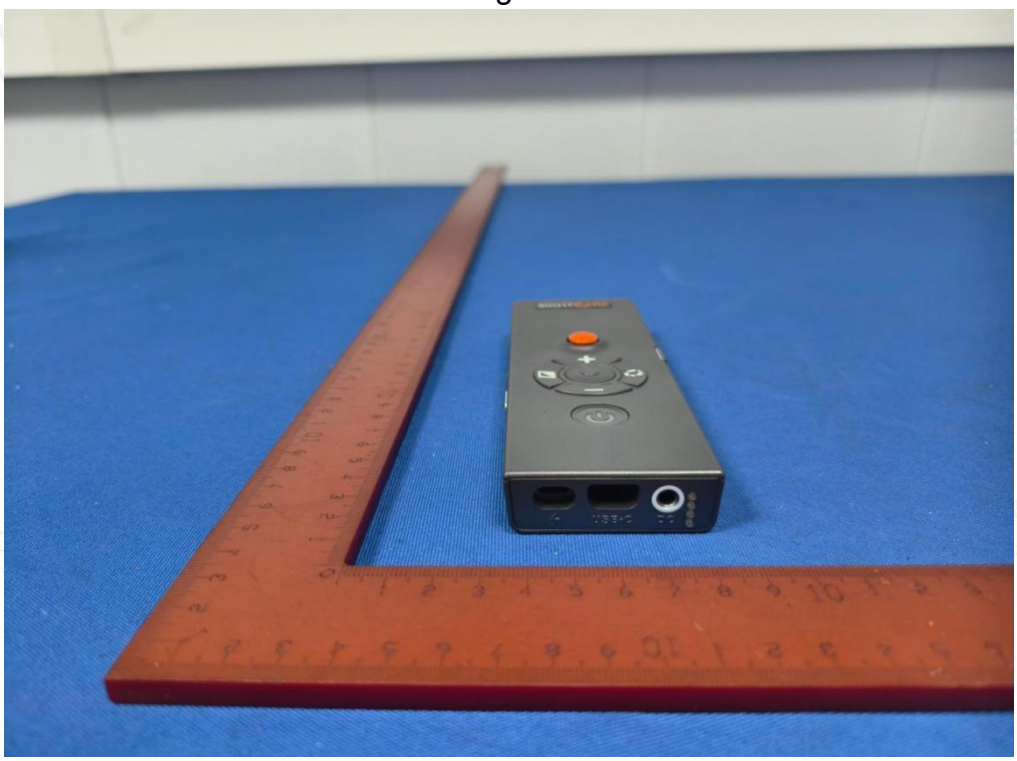


Fig. 6

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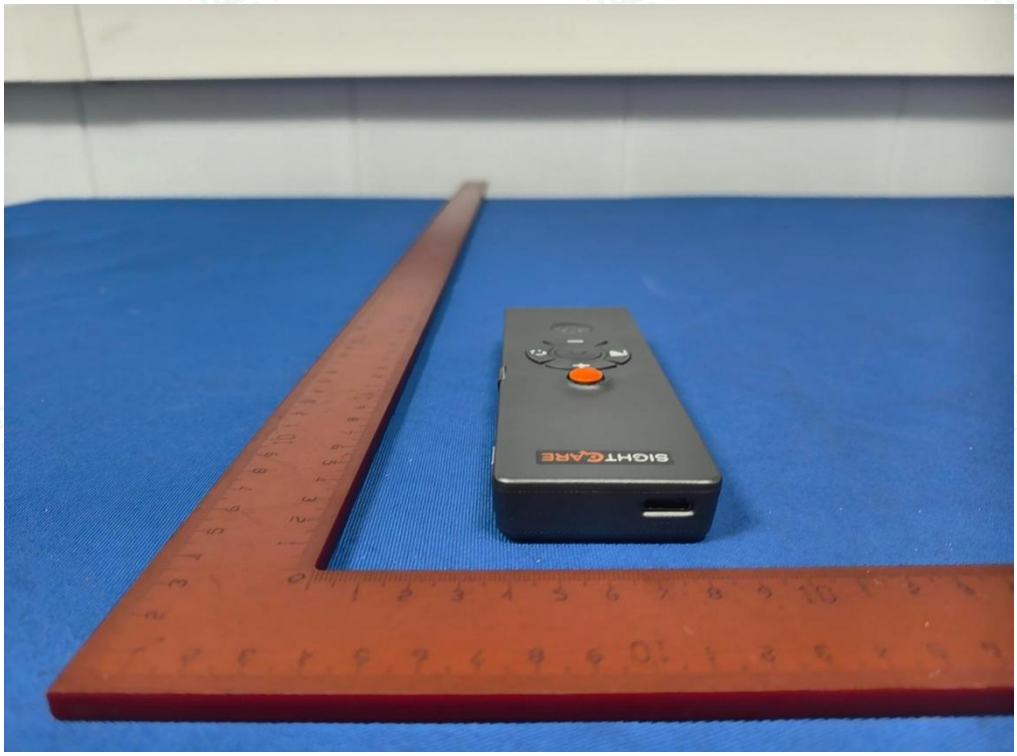


Fig. 7



Fig. 8

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Fig. 9

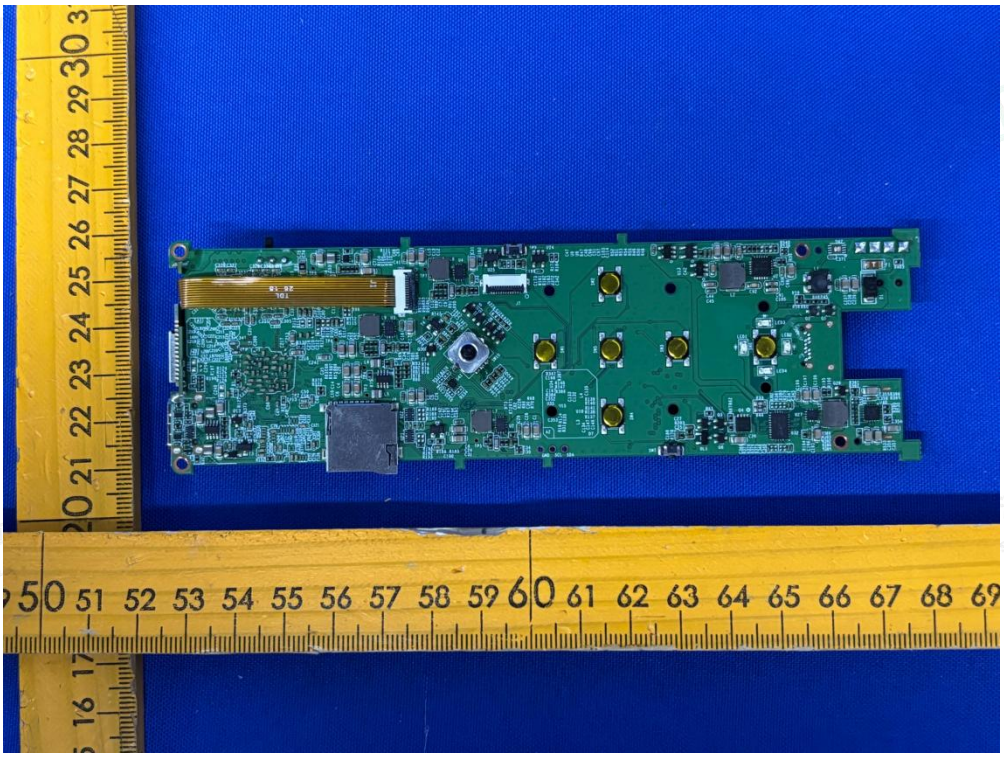


Fig. 10

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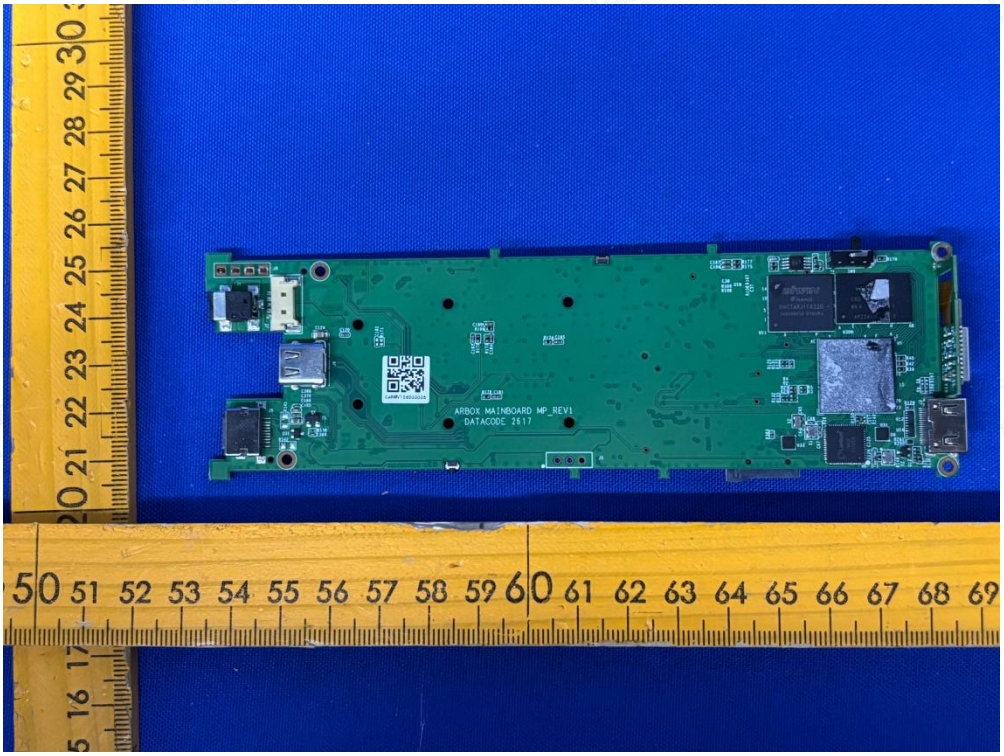


Fig. 11



Fig. 12

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Fig. 13



Fig. 14

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Fig. 15

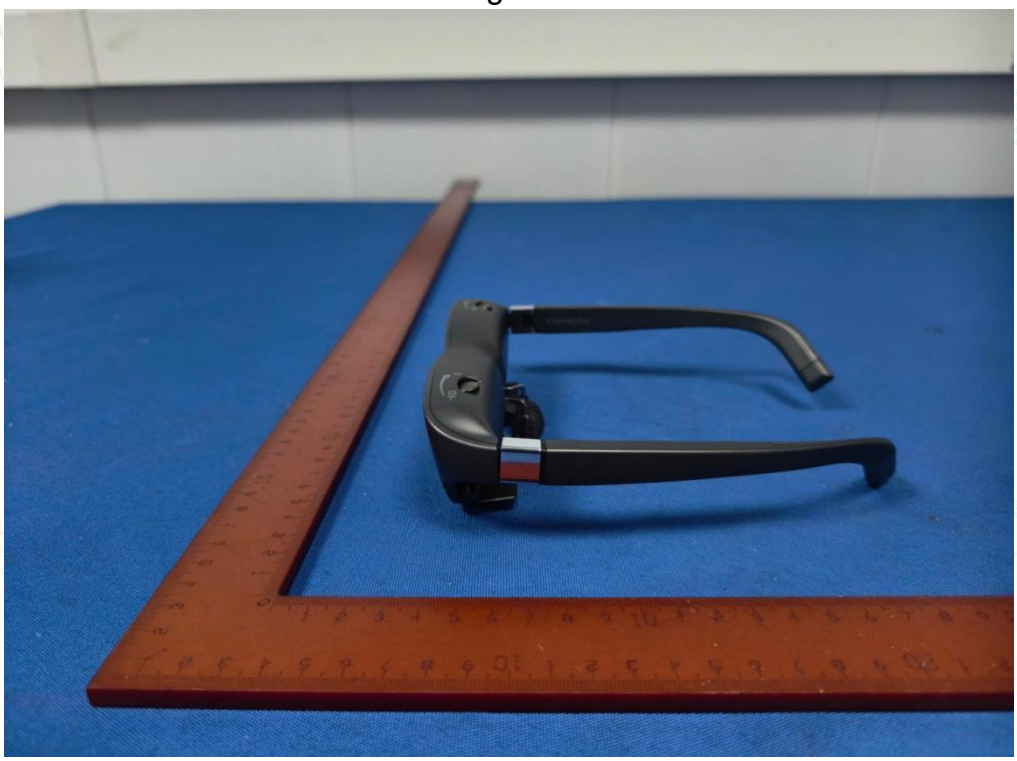


Fig. 16

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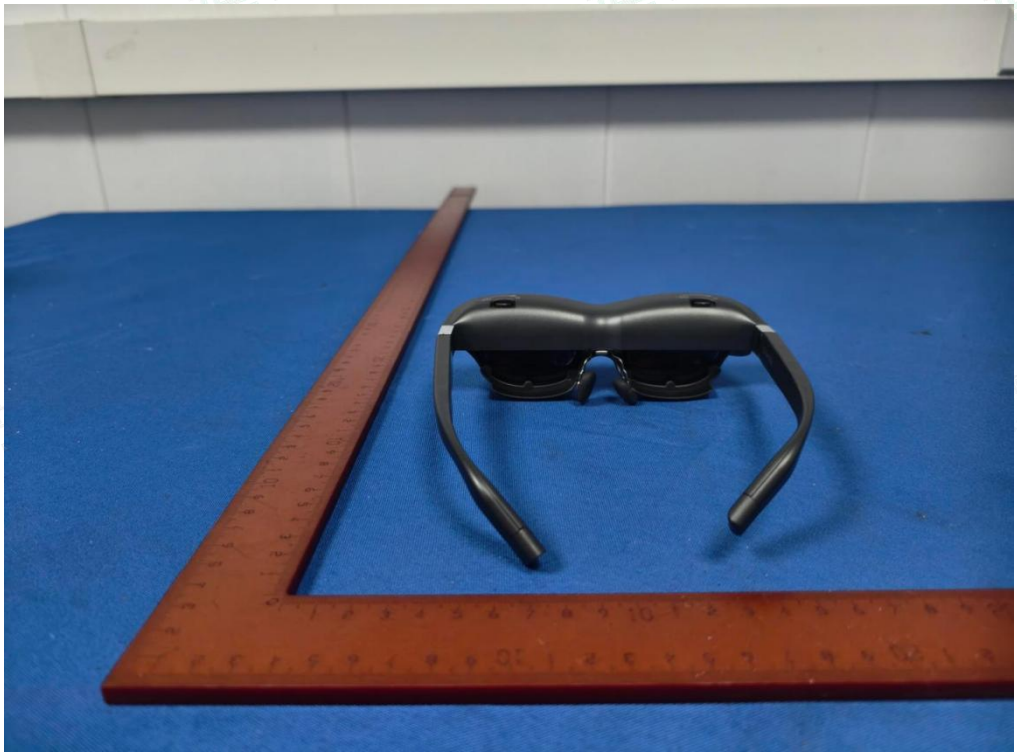


Fig. 17



Fig. 18

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Fig. 19

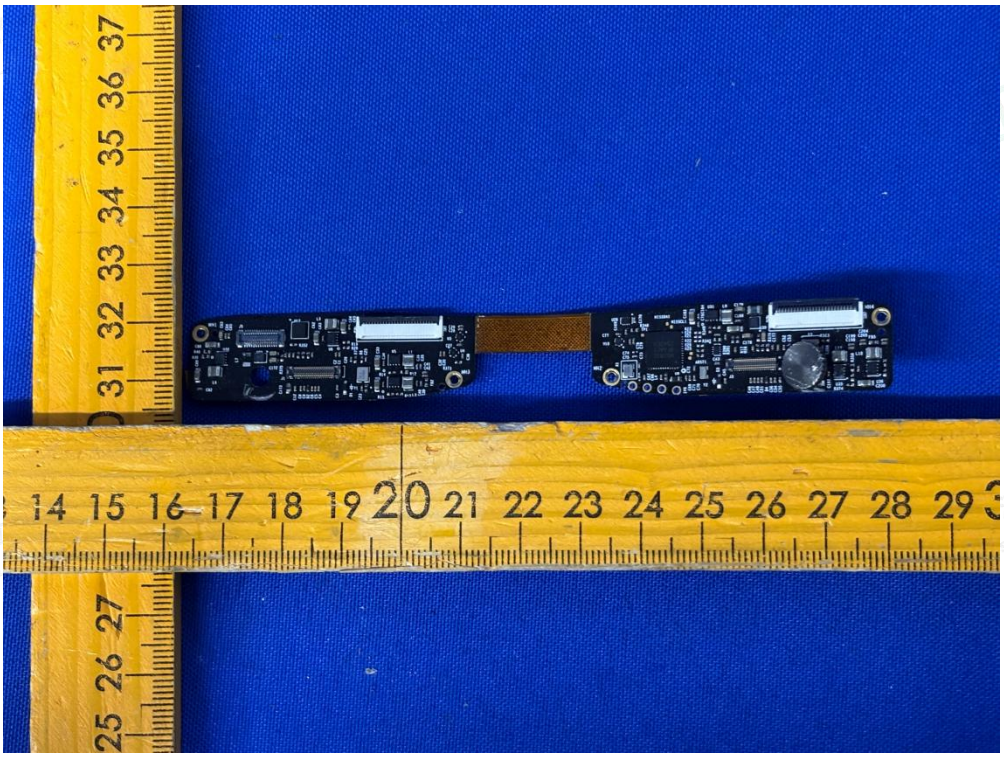


Fig. 20

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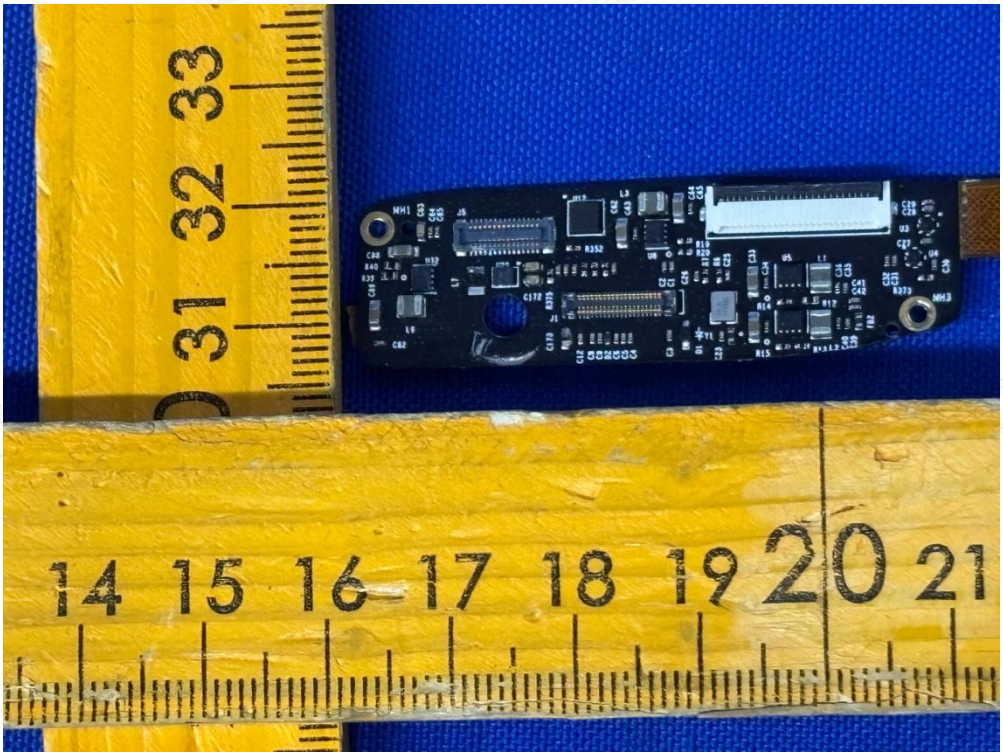


Fig. 21

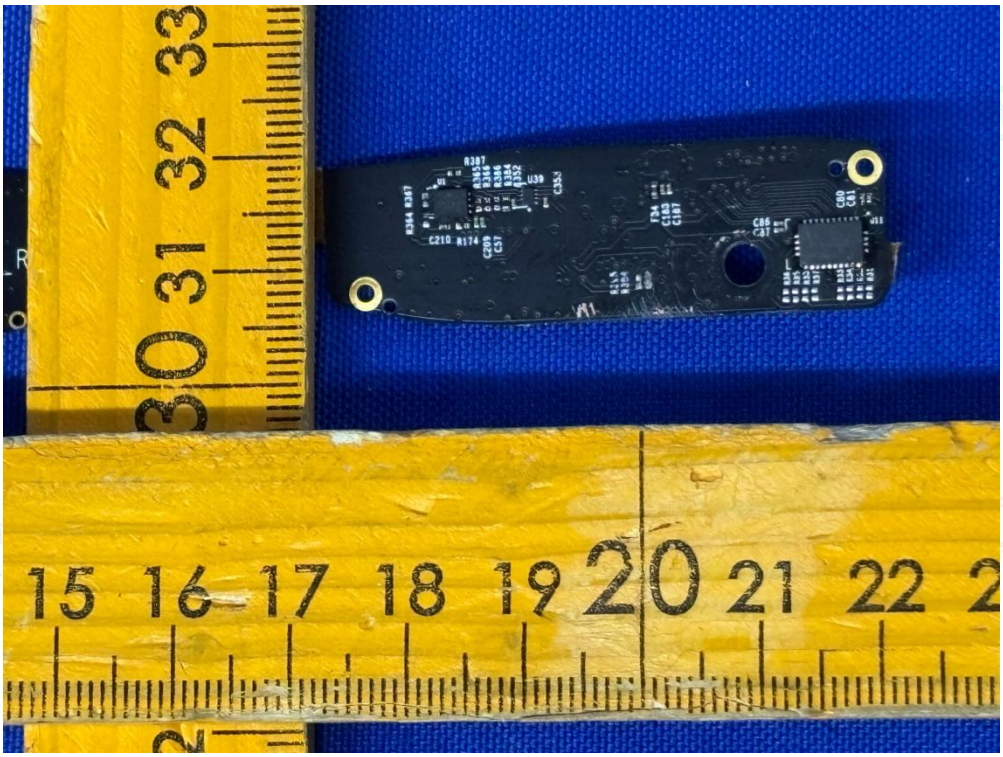


Fig. 22

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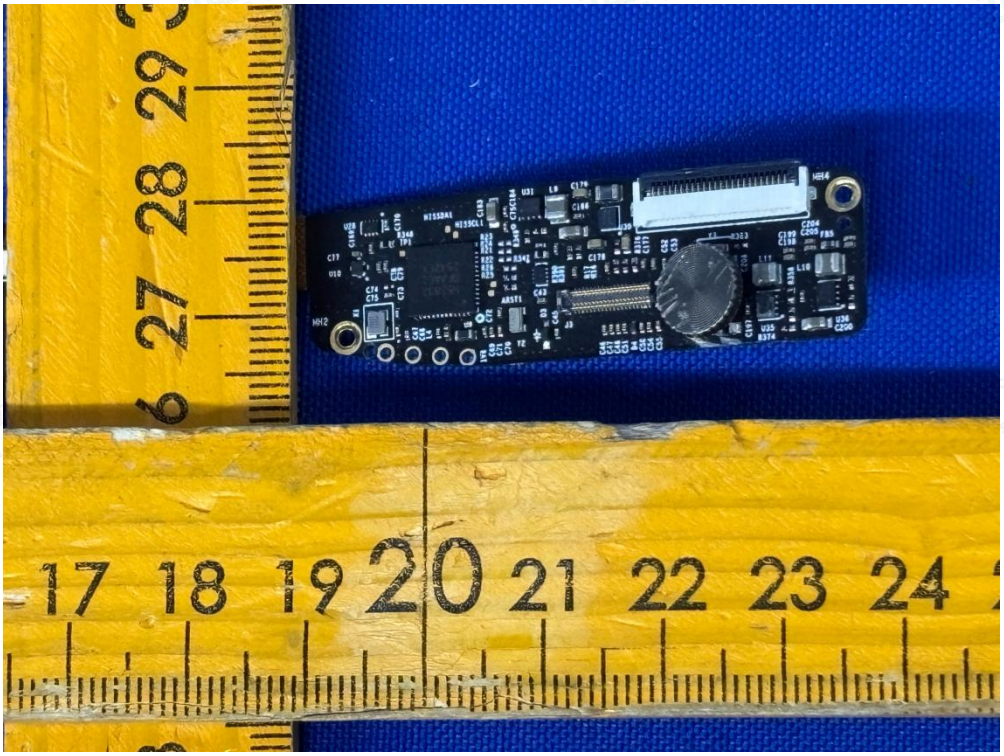


Fig. 23

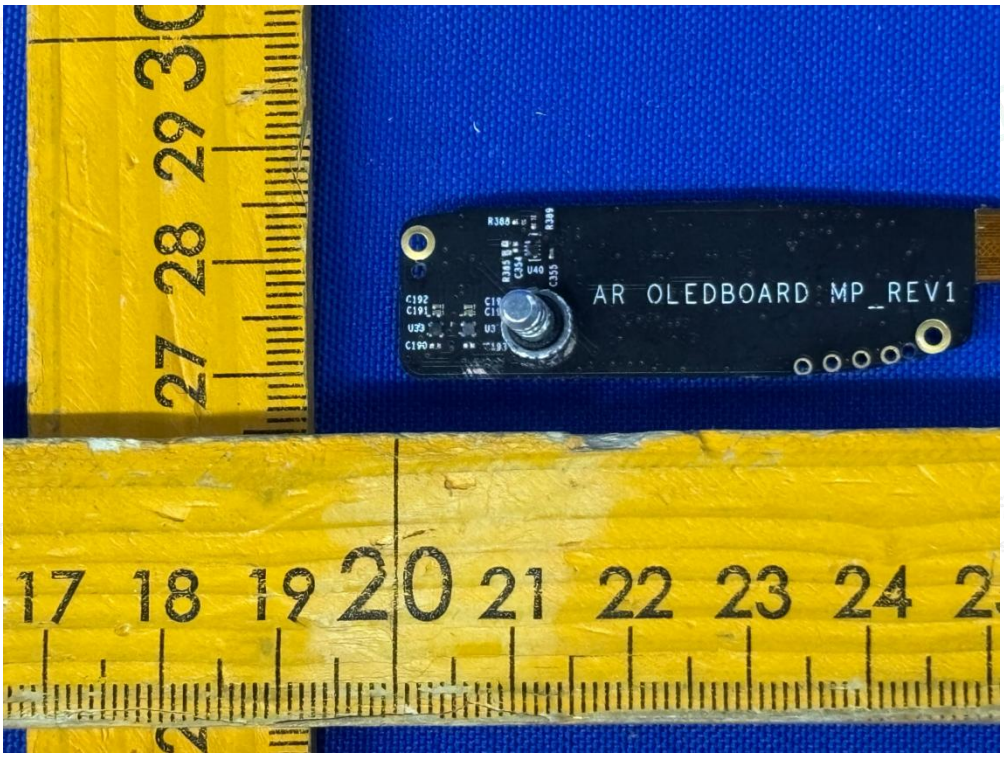


Fig. 24

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Fig. 25

----------End Report----------

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