



EMC TEST REPORT

For

Shanghai Panelmate Electronics Co., Ltd.

Uninterrupted Power Supply

Test Model: UPS6920

Additional Model No.: Please Refer to Page 9

Prepared for : Shanghai Panelmate Electronics Co., Ltd.
Address : Building 18th, No.177 Fulian 2nd Rd. Baoshan District,
Shanghai, 201906

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : Room 101, 201, Building A and Room 301, Building C,
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Date of receipt of test sample : March 14, 2024
Number of tested samples : 1
Serial number : Prototype
Date of Test : March 14, 2024 to March 27, 2024
Date of Report : March 28, 2024



**TEST REPORT****Report No.** : LCSA03114150E**Date of Issue** : March 28, 2024**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** : Shanghai Panelmate Electronics Co., Ltd.**Address** : Building 18th, No.177 Fulian 2nd Rd. Baoshan District, Shanghai, 201906**Test Specification****Standard** : EN IEC 61000-6-3:2021
EN IEC 61000-6-2:2019**Test Report Form No.** : LCSEMC-1.0**TRF Originator** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF** : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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Test Item Description. : Uninterrupted Power Supply**Trade Mark** : Panelmate**Test Model** : UPS6920**Result** : Positive**Compiled by:**

Coco Song / File Administrator

Supervised by:

Baron Wen / Technique principal

Approved by:

Gavin Liang / Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.
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TEST REPORT

Test Report No.: LCSA03114150E	<u>March 28, 2024</u> Date of issue
---------------------------------------	--

Test Model	: UPS6920
EUT	: Uninterrupted Power Supply
Applicant	: Shanghai Panelmate Electronics Co., Ltd.
Address	: Building 18th, No.177 Fulian 2nd Rd. Baoshan District, Shanghai, 201906
Telephone	: /
Fax	: /
Manufacturer	: Shanghai Panelmate Electronics Co., Ltd.
Address	: Building 18th, No.177 Fulian 2nd Rd. Baoshan District, Shanghai, 201906
Telephone	: /
Fax	: /
Factory	: Shanghai Panelmate Electronics Co., Ltd.
Address	: Building 18th, No.177 Fulian 2nd Rd. Baoshan District, Shanghai, 201906
Telephone	: /
Fax	: /

Test Result	Positive
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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	March 28, 2024	Initial Issue	/





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1. TEST STANDARDS

The tests were performed according to following standards:

EN IEC 61000-6-3:2021: Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments

EN IEC 61000-6-2:2019: Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments



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2. SUMMARY OF STANDARDS AND RESULTS

2.1 Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	Standard	Limits	Result
Conducted disturbances from DC power port	EN IEC 61000-6-3:2021	Table 5	Pass
Radiation disturbance (30MHz-1GHz)	EN IEC 61000-6-3:2021	Table 3	Pass
Electrostatic discharge	EN IEC 61000-6-2:2019	Table 1.4	Pass
Radio-frequency electromagnetic field	EN IEC 61000-6-2:2019	Table 1.2 & 1.3	Pass
Fast transients-Input and output DC power ports	EN IEC 61000-6-2:2019	Table 3.3	Pass
Surges-Input and output DC power ports	EN IEC 61000-6-2:2019	Table 3.2	Pass
Radio-frequency common mode-Input and output DC power ports	EN IEC 61000-6-2:2019	Table 3.1	Pass
Power-frequency magnetic field	EN IEC 61000-6-2:2019	Table 1.1	Pass





2.2 Description of Test Modes

No	Title	Description
TM1	Working(DC 24V)	Record

2.3 Description of Performance Criteria

Performance Criteria Description in EN IEC 61000-6-2 Performance Criteria

Performance Criterion A

The EUT 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 EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

Performance Criterion B

The EUT 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 EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but 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 equipment if used as intended.

Performance Criterion C

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





3. GENERAL INFORMATION

3.1 Description of Device (EUT)

EUT	: Uninterrupted Power Supply
Test Model	: UPS6920
Additional Model No.	: UPS6920C, UPS6920C-12, UPS6920C-24, UPS6920L, UPS6920L-12, UPS6920L-24
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: Input: DC24V, 6.25A Output: DC 24V, 5A
Highest Internal Frequency	: Less than 108MHz

3.2 Support equipment List

The EUT was tested as an independent device.

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
Radiated Emission (30MHz to 1000MHz)	± 3.48 dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	





4. MEASURING DEVICES AND TEST EQUIPMENT

Electrostatic discharge

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
ESD Simulator	SCHLODER	SESD 230	604035	2023-07-17	2024-07-16

Conducted disturbances from DC power port

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
Artificial Mains	R&S	ENV216	101288	2023-06-09	2024-06-08
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2023-08-15	2024-08-14
EMI Test Receiver	R&S	ESR3	102312	2024-03-02	2025-03-01

Radio-frequency electromagnetic field

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
MXG Vector Signal Generator	Agilent	E4438C	MY42081396(6G)	2023-06-09	2024-06-08
RF POWER AMPLIFIER	SKET	HAP_0306G-50W	/	2023-06-09	2024-06-08
RF POWER AMPLIFIER	OPHIR	5225R	1052	2023-06-09	2024-06-08
RF POWER AMPLIFIER	OPHIR	5273F	1019	2023-06-09	2024-06-08
Stacked Broadband Log Periodic Antenna	SCHWARZBECK	STLP 9128	9128ES-145	/	/
Stacked Mikrowellen Log.-Per Antenna	SCHWARZBECK	STLP 9149	9149-484	/	/
RS Electric field probe	narda	EP601	611WX80208	2023-06-09	2024-06-08

Fast transients-Input and output DC power ports

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
Electric fast pulse group generator	3ctest	EFT-4001G	EC0461044	2023-10-18	2024-10-17
Immunity Simulative Generator	EM TEST	UCS500-M4	0101-34	2023-08-15	2024-08-14



**Radiation disturbance (30MHz-1GHz)**

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
EMI Test Software	Farad	EZ	/	/	/
EMI Test Software	AUDIX	E3	/	/	/
By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
EMI Test Receiver	R&S	ESR3	102311	2023-08-15	2024-08-14
Broadband Preamplifier	/	BP-01M18G	P190501	2023-06-09	2024-06-08
EMI Test Receiver	R&S	ESCI7	101173	2023-10-25	2024-10-24
By-log Antenna	SchwarzZBECK	VULB9163	01428	2023-09-05	2024-09-04

Surges-Input and output DC power ports

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
Immunity Simulative Generator	EM TEST	UCS500-M4	0101-34	2023-08-15	2024-08-14

Radio-frequency common mode-Input and output DC power ports

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
Simulator	FRANKONIA	CIT-10/75	A126A1195	2023-08-15	2024-08-14
CDN	FRANKONIA	CDN-M2+M3	A2210177	2023-06-09	2024-06-08
6dB Attenuator	FRANKONIA	DAM25W	1172040	2023-06-09	2024-06-08

Power-frequency magnetic field

Equipment	Manufacturer	Model No	Serial No.	Cal Date	Due Date
Power frequency mag-field generator System	EVERFINE	EMS61000-8K	906003	2023-06-09	2024-06-08





5. EMISSION TEST RESULTS (EMI)

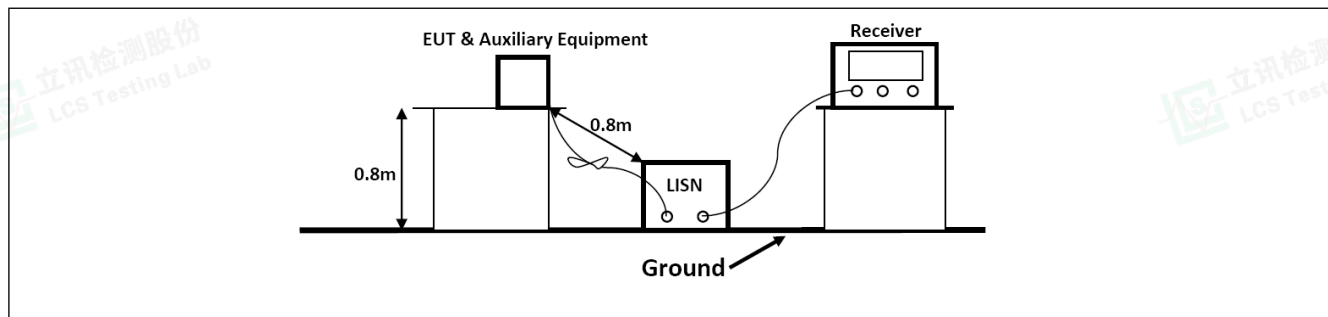
5.1 Conducted disturbances from DC power port

Test Requirement:	Table 5		
Test Limit:	Frequency range	Limits	
	0,15 MHz to 0,5 MHz	79 dB(uV) quasi-peak 66 dB(uV) average	
	0,5 MHz to 30 MHz	73 dB(uV) quasi-peak 60 dB(uV) average	
	At transitional frequencies the lower limit applies.		
Test Method:	CISPR 16-2-1 Clause 7		
Procedure:	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.		

5.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	24.4 °C	Humidity:	53 %
Pre test mode:	TM1		
Final test mode:	TM1		

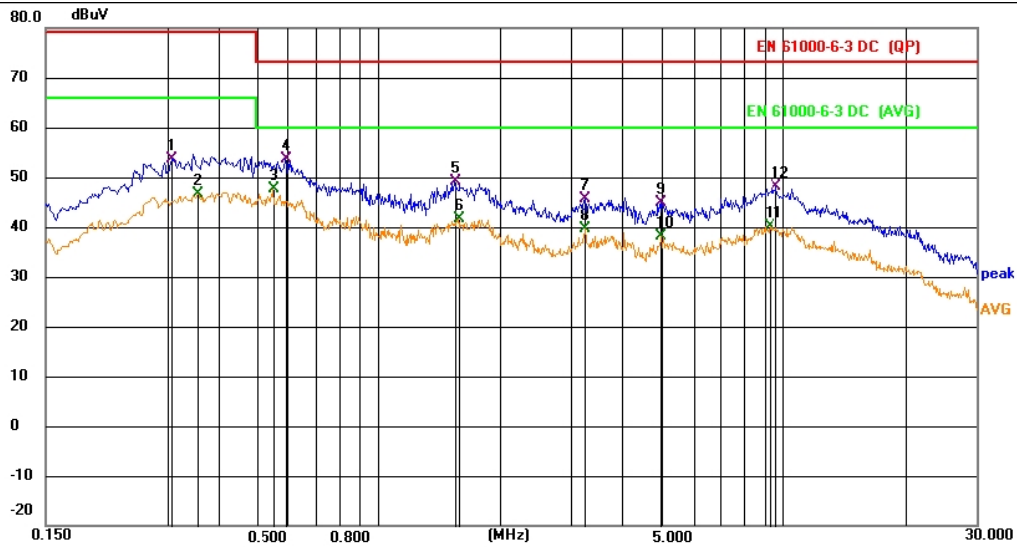
5.1.2 Test Setup Diagram:





5.1.3 Test Data:

TM1 / Positive

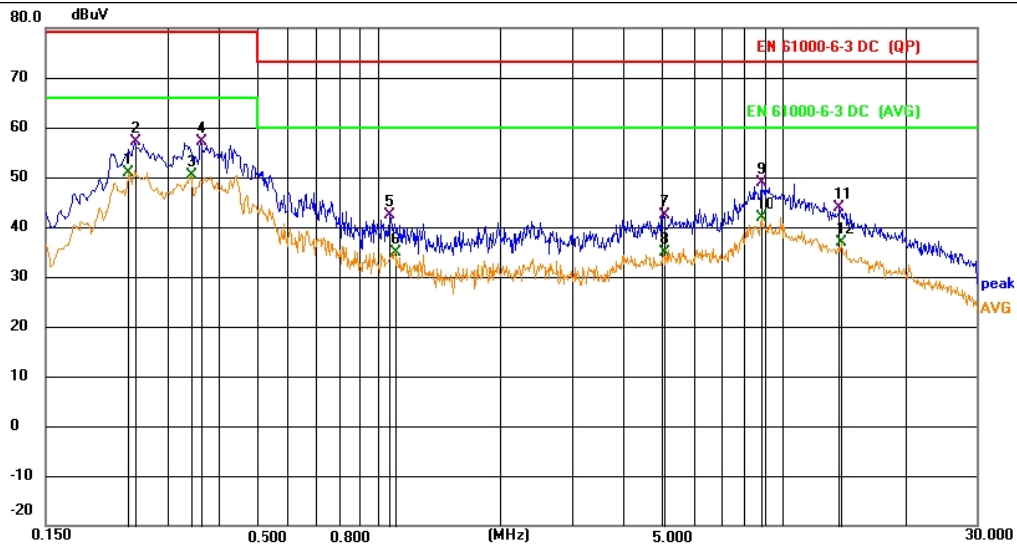


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit		Detector	Comment
		MHz	Level	Factor	ment	dBuV	dB		
1		0.3076	34.09	19.63	53.72	79.00	-25.28	QP	
2		0.3571	26.96	19.63	46.59	66.00	-19.41	AVG	
3	*	0.5506	27.94	19.65	47.59	60.00	-12.41	AVG	
4		0.5911	33.89	19.66	53.55	73.00	-19.45	QP	
5		1.5361	29.38	19.67	49.05	73.00	-23.95	QP	
6		1.5721	21.91	19.67	41.58	60.00	-18.42	AVG	
7		3.2325	25.83	19.76	45.59	73.00	-27.41	QP	
8		3.2325	19.84	19.76	39.60	60.00	-20.40	AVG	
9		4.9876	24.96	19.80	44.76	73.00	-28.24	QP	
10		4.9876	18.43	19.80	38.23	60.00	-21.77	AVG	
11		9.2716	20.34	19.85	40.19	60.00	-19.81	AVG	
12		9.6271	28.24	19.85	48.09	73.00	-24.91	QP	





TM1 / Negative



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1 *	0.2403	31.25	19.63	50.88	66.00	-15.12	AVG	
2	0.2491	37.48	19.63	57.11	79.00	-21.89	QP	
3	0.3436	30.84	19.63	50.47	66.00	-15.53	AVG	
4	0.3616	37.46	19.63	57.09	79.00	-21.91	QP	
5	1.0680	22.72	19.65	42.37	73.00	-30.63	QP	
6	1.0995	15.35	19.65	35.00	60.00	-25.00	AVG	
7	5.0416	22.69	19.80	42.49	73.00	-30.51	QP	
8	5.0416	15.03	19.80	34.83	60.00	-25.17	AVG	
9	8.8215	29.07	19.85	48.92	73.00	-24.08	QP	
10	8.8215	22.15	19.85	42.00	60.00	-18.00	AVG	
11	13.7941	24.08	19.84	43.92	73.00	-29.08	QP	
12	13.9876	16.98	19.84	36.82	60.00	-23.18	AVG	





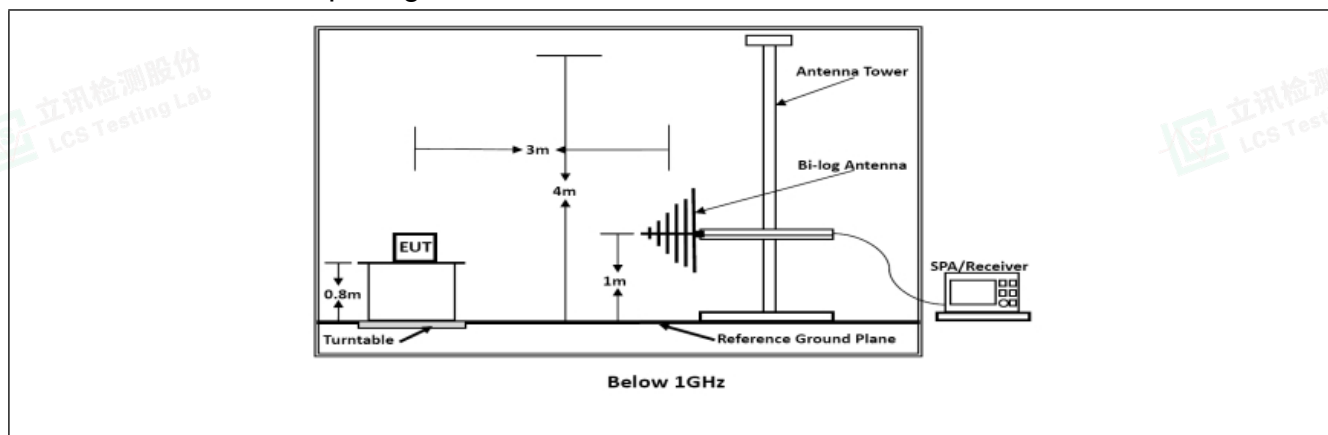
5.2 Radiation disturbance (30MHz-1GHz)

Test Requirement:	Table 3		
Test Limit:	Frequency range	Limits at 10m	Limits at 3m
	30 MHz to 230 MHz	30 dB(uV/m) quasi-peak	40 dB(uV/m) quasi-peak
	230 MHz to 1 000 MHz	37 dB(uV/m) quasi-peak	47 dB(uV/m) quasi-peak
	At transitional frequencies the lower limit applies.		
Test Method:	CISPR 16-2-3 Clause 7.3		
Procedure:	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. Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor		

5.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	26.4 °C	Humidity:	54.2 %
Pre test mode:	TM1		
Final test mode:	TM1		

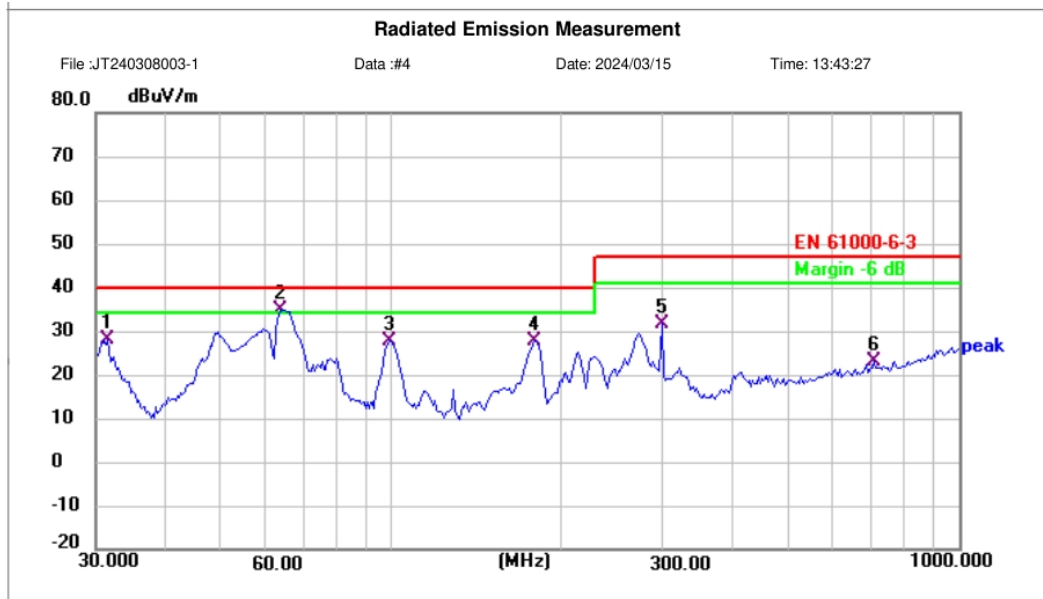
5.2.2 Test Setup Diagram:





5.2.3 Test Data:

TM1 / Polarization: Horizontal

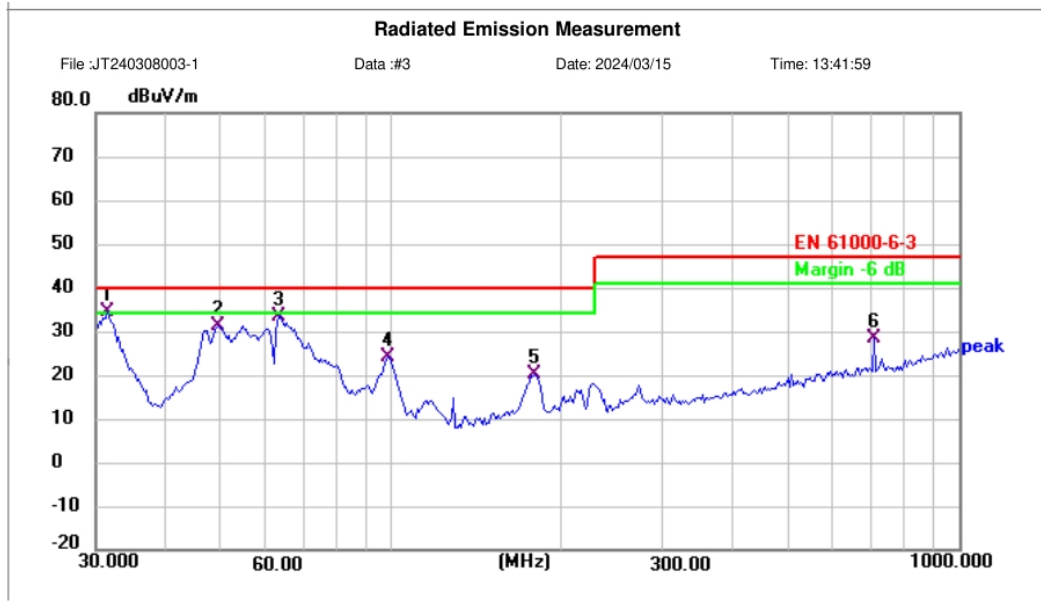


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	31.5124	47.72	-19.74	27.98	40.00	-12.02	QP			P	
2 *	63.6311	54.32	-19.57	34.75	40.00	-5.25	QP			P	
3	99.0690	47.44	-19.62	27.82	40.00	-12.18	QP			P	
4	178.7697	48.90	-21.39	27.51	40.00	-12.49	QP			P	
5	298.5930	48.17	-16.65	31.52	47.00	-15.48	QP			P	
6	708.6940	32.71	-9.71	23.00	47.00	-24.00	QP			P	





TM1 / Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	31.5125	54.12	-19.74	34.38	40.00	-5.62	QP			P	
2	49.4084	48.32	-16.98	31.34	40.00	-8.66	QP			P	
3	63.1856	52.86	-19.46	33.40	40.00	-6.60	QP			P	
4	98.3752	43.87	-19.74	24.13	40.00	-15.87	QP			P	
5	178.7697	41.59	-21.39	20.20	40.00	-19.80	QP			P	
6	708.6940	38.19	-9.71	28.48	47.00	-18.52	QP			P	





6. IMMUNITY TEST RESULTS (EMS)

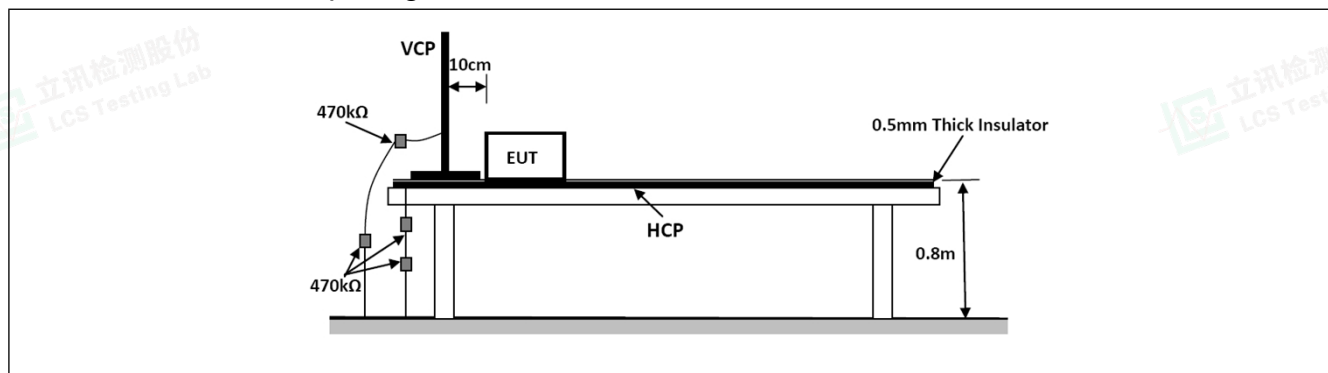
6.1 Electrostatic discharge

Test Requirement:	Table 1.4
Test Method:	IEC 61000-4-2
Procedure:	Discharge Impedance: 330 Ω / 150 pF Discharge Voltage: Air Discharge: 8 kV; Contact Discharge: 4 kV; VCP/HCP: 4 kV. Polarity: Positive & Negative Number of Discharge: Minimum 10 times at each test point Discharge Mode: Single Discharge Discharge Period: 1 second minimum Test Point 1: All insulated enclosure & seams. Test Point 2: All accessible metal parts of the enclosure. Test Point 3: All sides.
Performance Criteria:	B

6.1.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.8 °C	Humidity:	46.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

6.1.2 Test Setup Diagram:





6.1.3 Test Data:

Discharge type	Volt (kV)	Polarity	Test Point	Result/ Observations
Air discharge	8	+	10	B
Air discharge	8	-	10	B
Contact discharge	4	+	10	B
Contact discharge	4	-	10	B
Horizontal Coupling	4	+	10	B
Horizontal Coupling	4	-	10	B
Vertical Coupling	4	+	10	B
Vertical Coupling	4	-	10	B





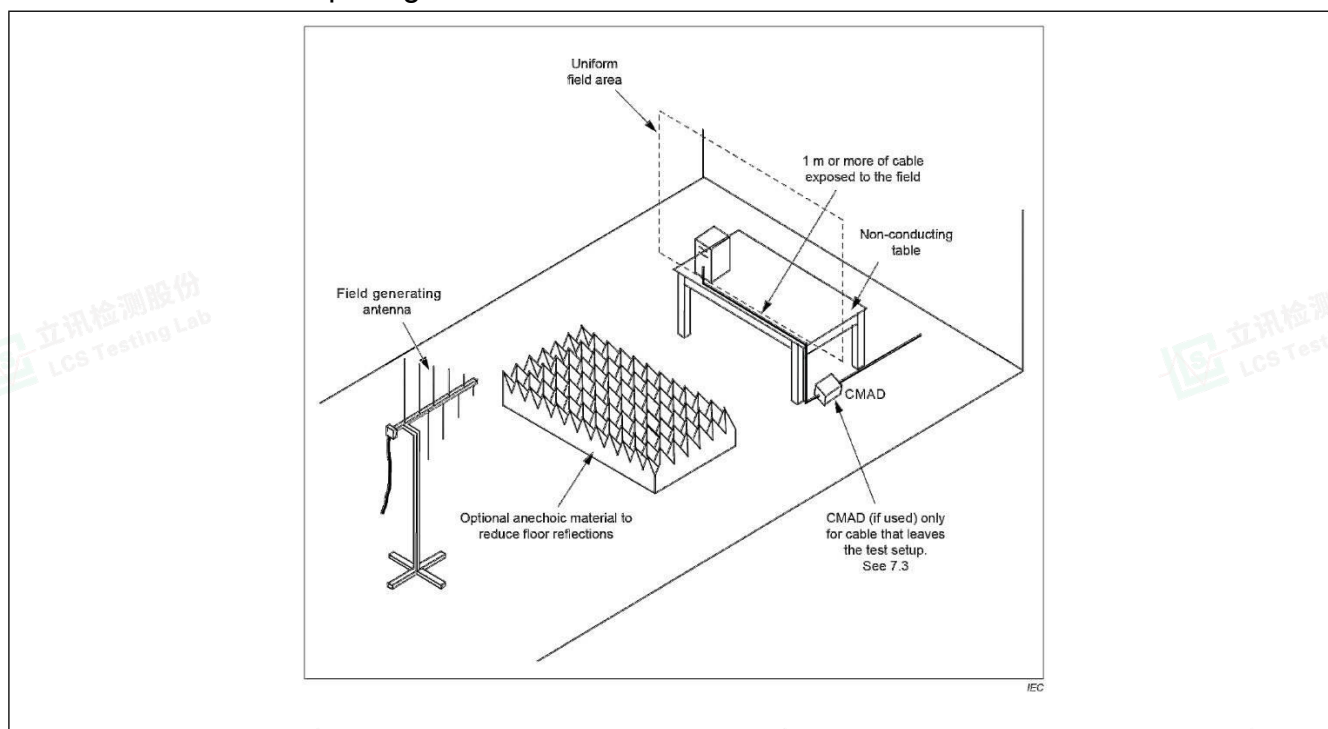
6.2 Radio-frequency electromagnetic field

Test Requirement:	Table 1.2 & 1.3
Test Method:	IEC 61000-4-3
Procedure:	Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz, 80% Amp. Mod, 1% increment Frequency Range and Level: 80MHz to 1GHz 10V/m, 1.4GHz to 6GHz 3V/m
Performance Criteria:	A

6.2.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.8 °C	Humidity:	46.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

6.2.2 Test Setup Diagram:





6.2.3 Test Data:

Frequency	Field Strength (V/m)	EUT face	Dwell time	Result/ Observations
80MHz-1GHz	10	Front, Back, Left, Right, Top, Bottom	2s	A
1.4GHz-6GHz	3	Front, Back, Left, Right, Top, Bottom	2s	A





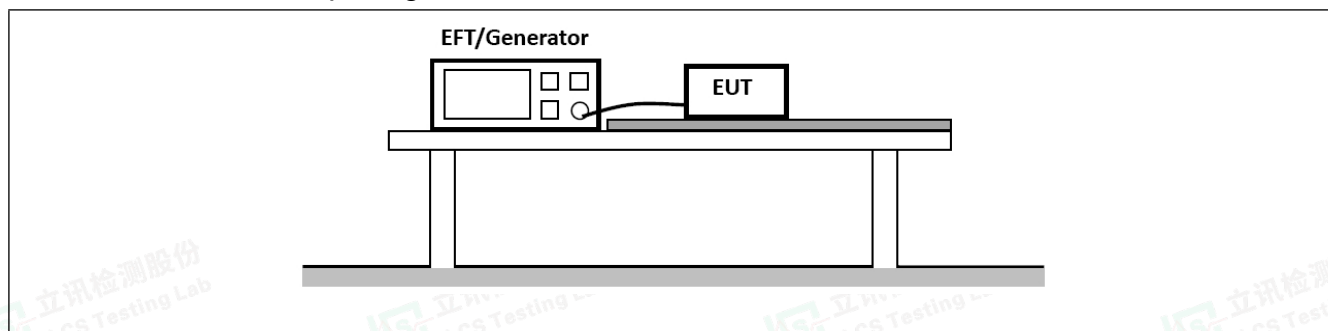
6.3 Fast transients-Input and output DC power ports

Test Requirement:	Table 3.3
Test Method:	IEC 61000-4-4
Procedure:	Repetition Frequency: 5kHz or 100kHz Burst Period: 300ms Test Duration: 2 minute per level & polarity Test Level: $\pm 1\text{kV}$
Performance Criteria:	B

6.3.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.8 °C	Humidity:	46.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

6.3.2 Test Setup Diagram:





6.3.3 Test Data:

Port	Volt (kV)	Polarity	CDN/ Clamp	Result/ Observations
DC power input port	0.5	+	CDN	B
DC power input port	0.5	-	CDN	B





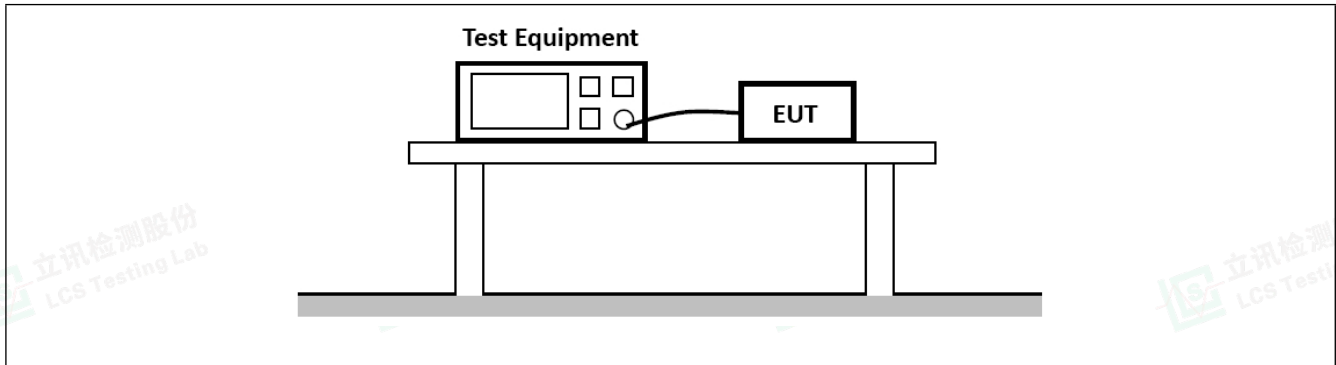
6.4 Surges-Input and output DC power ports

Test Requirement:	Table 3.2
Test Method:	IEC 61000-4-5
Procedure:	Interval: 60s between each surge No. of surges: 5 positive, 5 negative Test Level: Line to Earth $\pm 0.5\text{kV}$, $\pm 1\text{kV}$ Line to Line $\pm 0.5\text{kV}$
Performance Criteria:	B

6.4.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.8 °C	Humidity:	46.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

6.4.2 Test Setup Diagram:





6.4.3 Test Data:

Port	Volt (kV)	Polarity	Result/ Observations
L-L	0.5	+	B
L-L	0.5	-	B
L1-E	0.5	+	B
L1-E	0.5	-	B
L1-E	1	+	B
L1-E	1	-	B
L2-E	0.5	+	B
L2-E	0.5	-	B
L2-E	1	+	B
L2-E	1	-	B





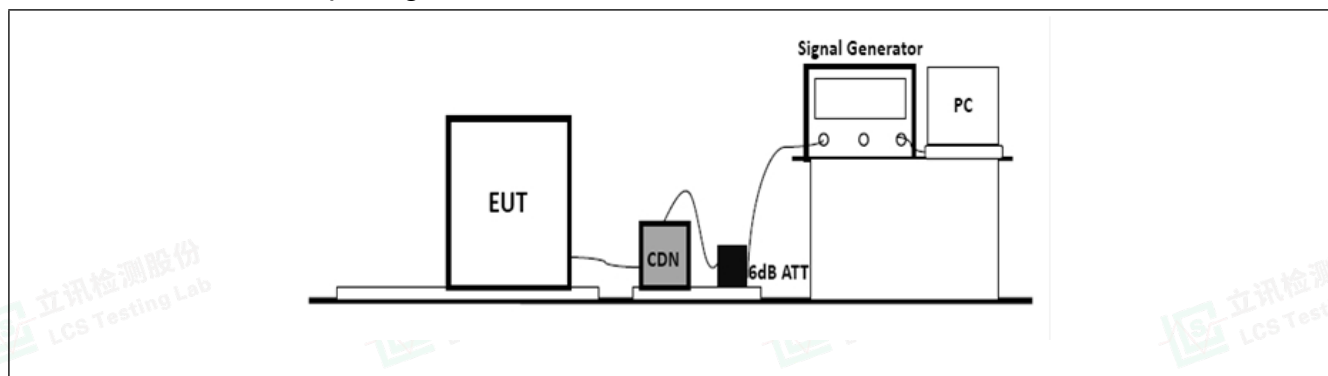
6.5 Radio-frequency common mode-Input and output DC power ports

Test Requirement:	Table 3.1
Test Method:	IEC 61000-4-6
Procedure:	Frequency Range: 0.15MHz to 80MHz Modulation: 80%, 1kHz Amplitude Modulation Step Size 1% Level: 10V
Performance Criteria:	A

6.5.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.8 °C	Humidity:	46.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

6.5.2 Test Setup Diagram:





6.5.3 Test Data:

Port	Strength (Vrms)	CDN/Clamp	Dwell Time	Result /Observation
DC power input port	10	CDN	3s	A





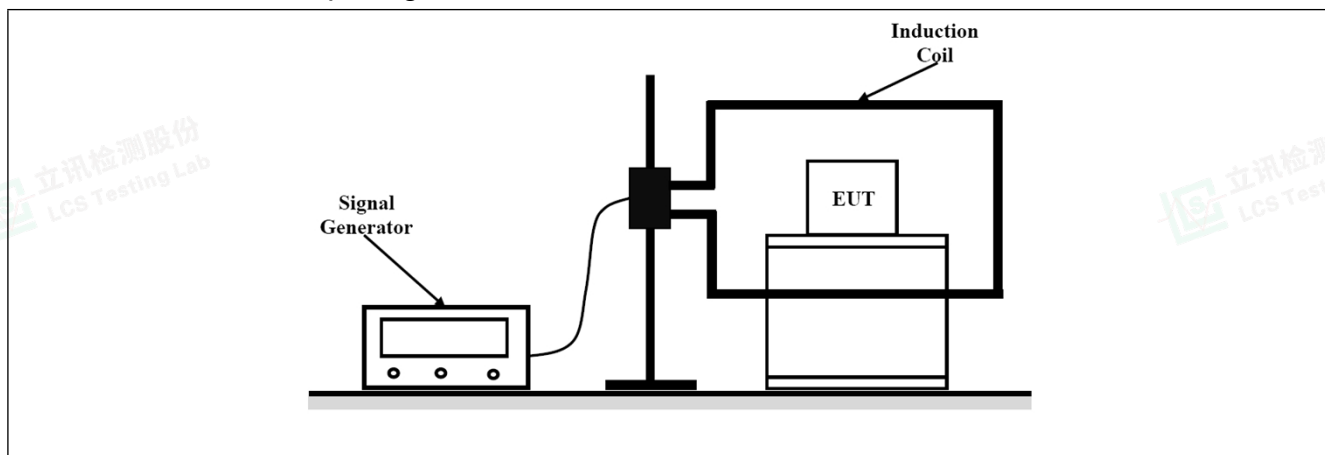
6.6 Power-frequency magnetic field

Test Requirement:	Table 1.1
Test Method:	IEC 61000-4-8
Procedure:	Test Frequency: 50Hz Test Level: 30A/m Test Frequency: 60Hz Test Level: 30A/m Test Frequency: 50 & 60Hz Test Level: 30A/m
Performance Criteria:	A

6.6.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.8 °C	Humidity:	46.6 %
Pre test mode:	TM1		
Final test mode:	TM1		

6.6.2 Test Setup Diagram:





6.6.3 Test Data:

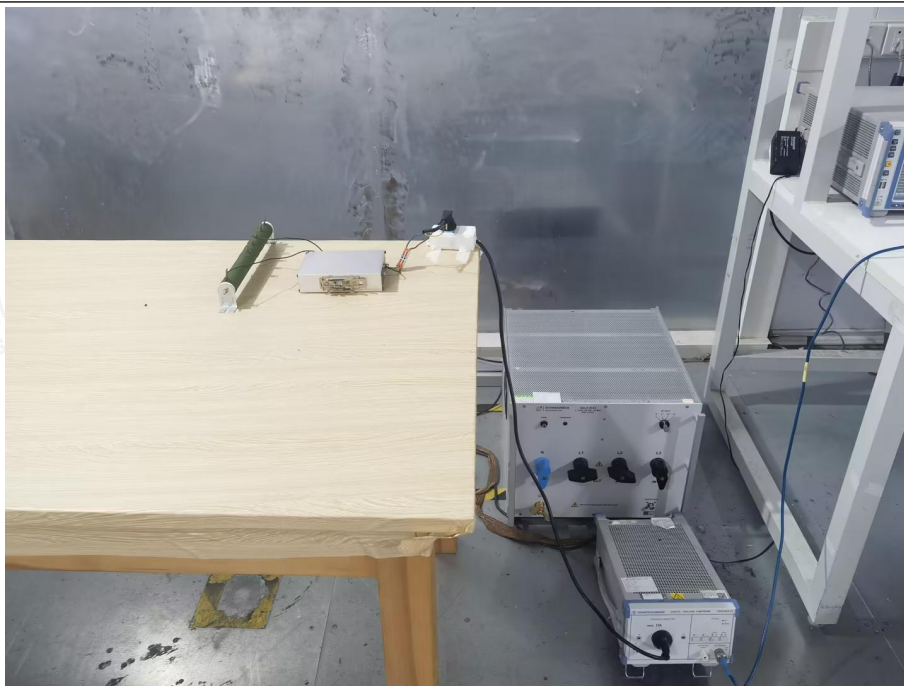
Frequency	Strength (A/m)	Axial	Magnetic Field Type	Result/ Observations
50Hz	30	X	Continuous filed	A
50Hz	30	Y	Continuous filed	A
50Hz	30	Z	Continuous filed	A



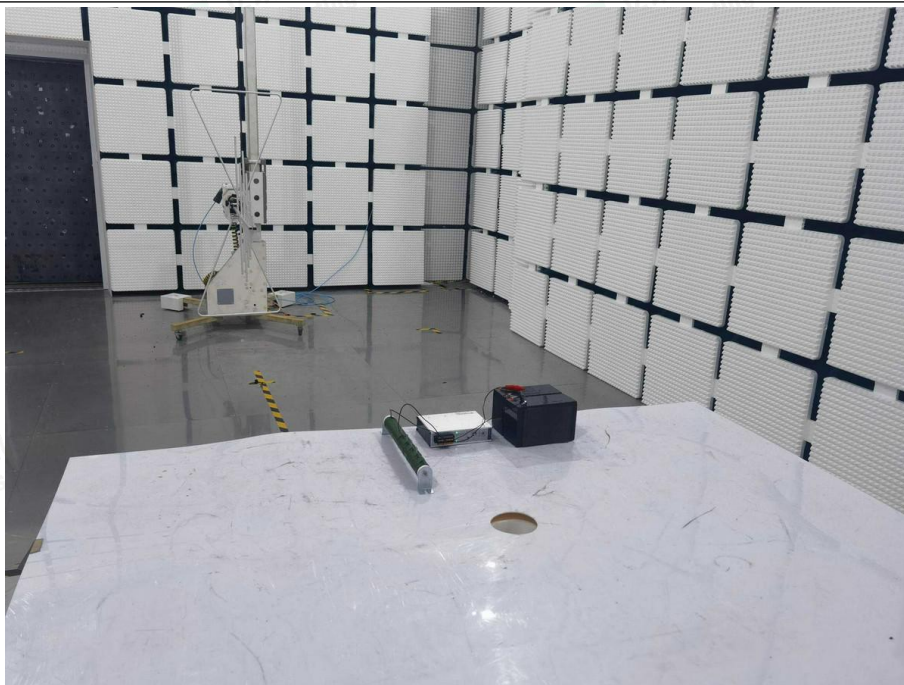


7. TEST SETUP PHOTOS

Conducted disturbances from DC power port



Radiation disturbance (30MHz-1GHz)





Electrostatic discharge

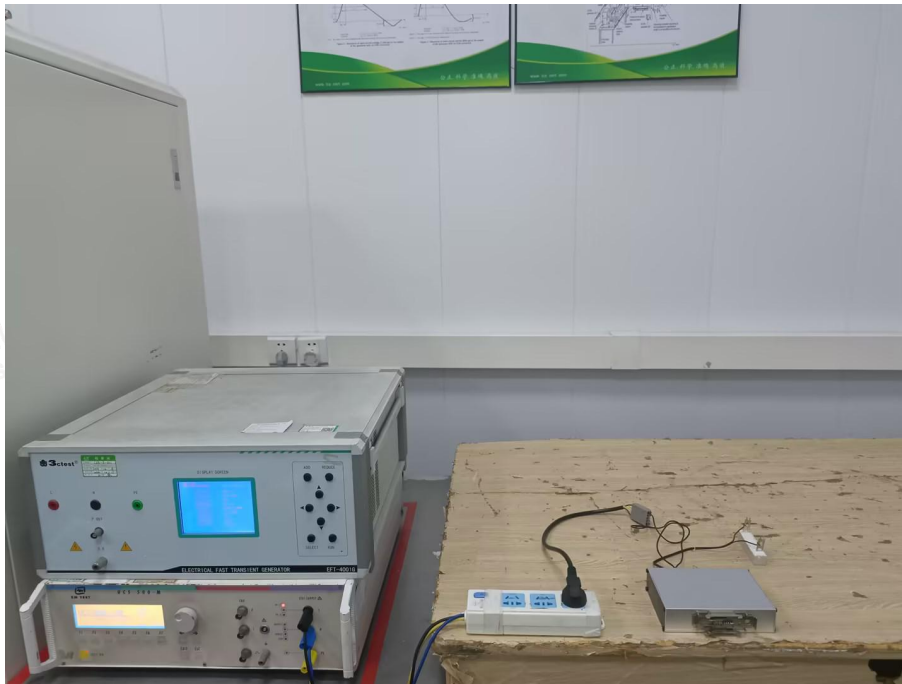


Radio-frequency electromagnetic field

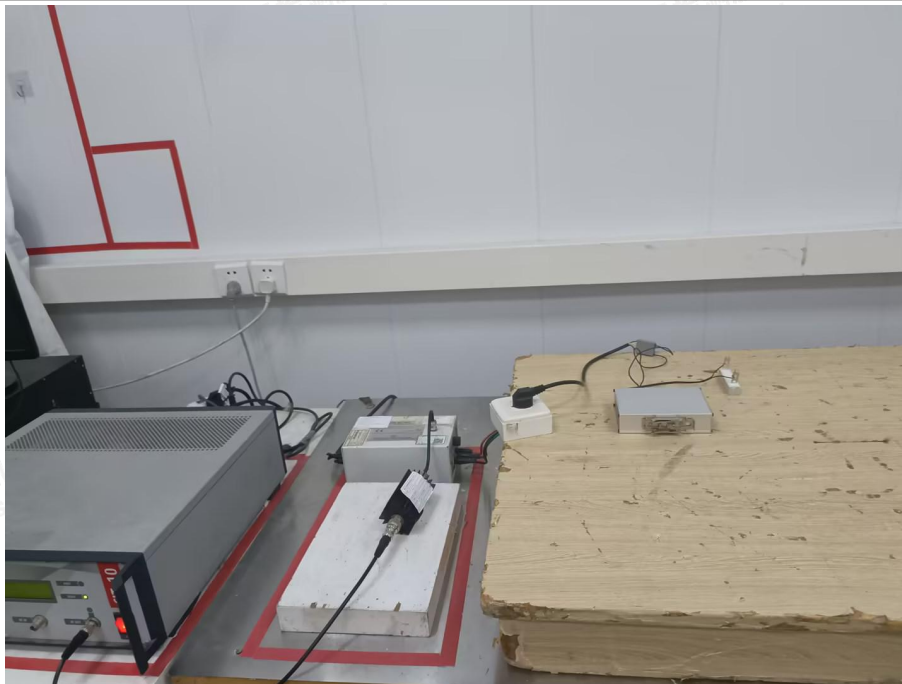




**Fast transients-Input and output DC power ports
Surges-Input and output DC power ports**



Radio-frequency common mode-Input and output DC power ports





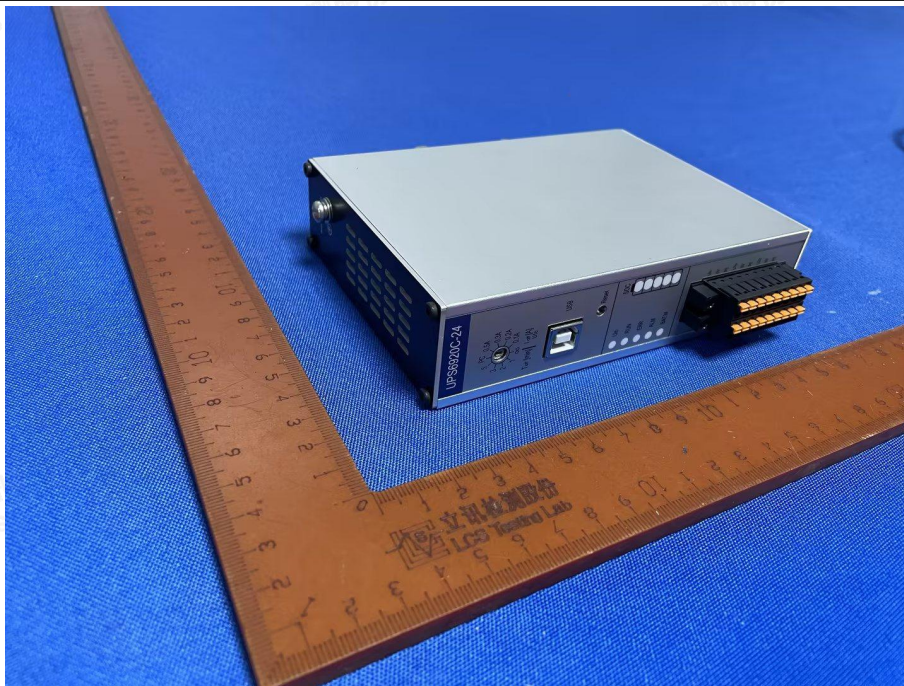
Power-frequency magnetic field

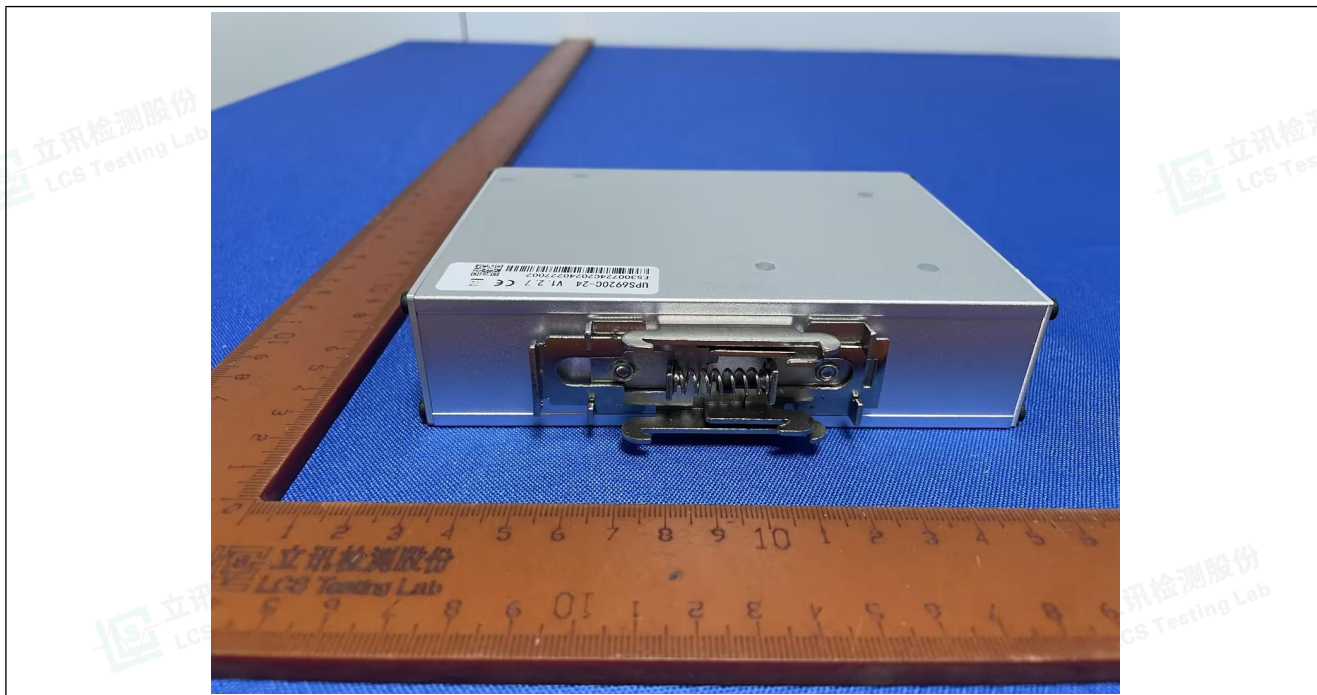


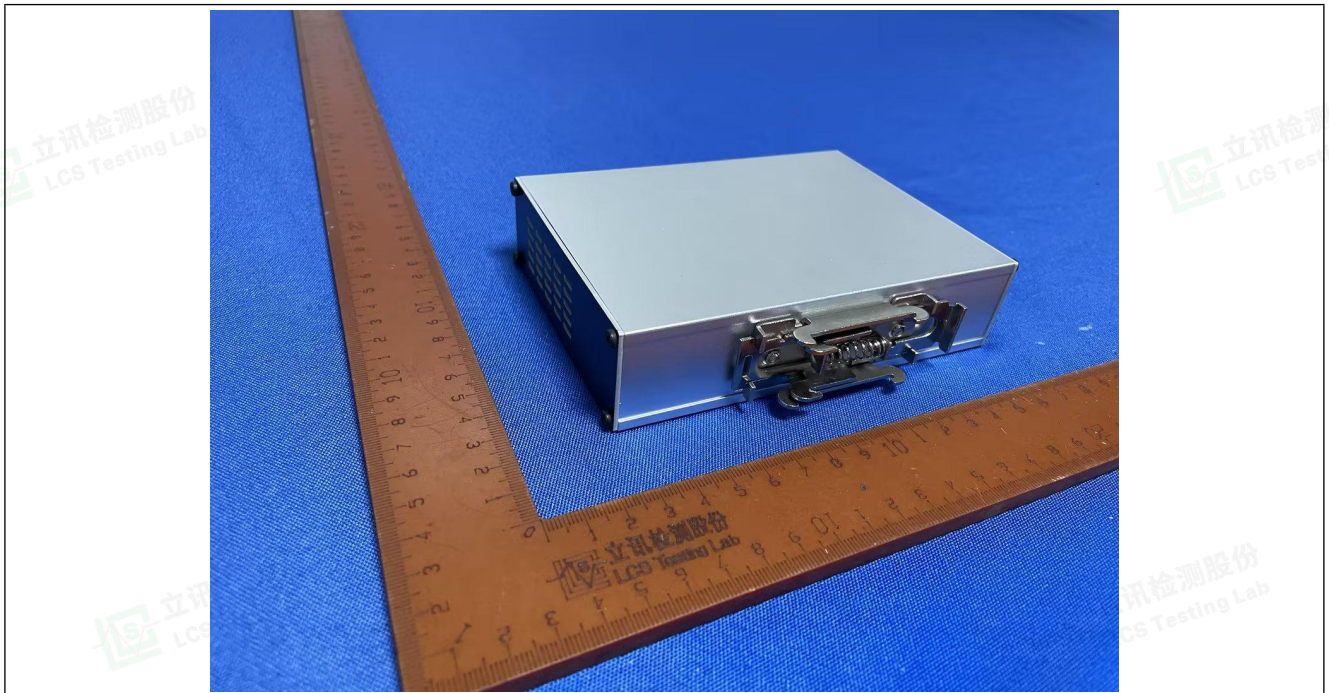


8. EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)

External







--- End of Report ---

