

TEST REPORT

Report No.: BCTC2112981353E

Applicant: ROCKPI TRADING LIMITED

Product Name: Rock 3A

Model/Type
reference: RS117-D8U

Tested Date: 2021-12-22 to 2021-12-31

Issued Date: 2022-01-05

Shenzhen BCTC Testing Co., Ltd.



Product Name: Rock 3A
Trademark: N/A
Model/Type reference: RS117-D8U
RS117-D8, RS117-D4U, RS117-D4, RS117-D2
Prepared For: ROCKPI TRADING LIMITED
Address: Room 11, 27 / f, Ga wah international centre, 191 Javaroad, north point, Hong Kong
Manufacturer: ROCKPI TRADING LIMITED
Address: Room 11, 27 / f, Ga wah international centre, 191 Javaroad, north point, Hong Kong
Prepared By: Shenzhen BCTC Testing Co., Ltd.
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Sample Received Date: 2021-12-22
Sample tested Date: 2021-12-22 to 2021-12-31
Issue Date: 2022-01-05
Report No.: BCTC2112981353E
Test Standards: EN 55032:2015+A1:2020, EN 55035:2017+A11:2020
Test Results: PASS

Tested by:



Sheldon Sun/ Project Handler

Approved by:



Zero Zhou/Reviewer

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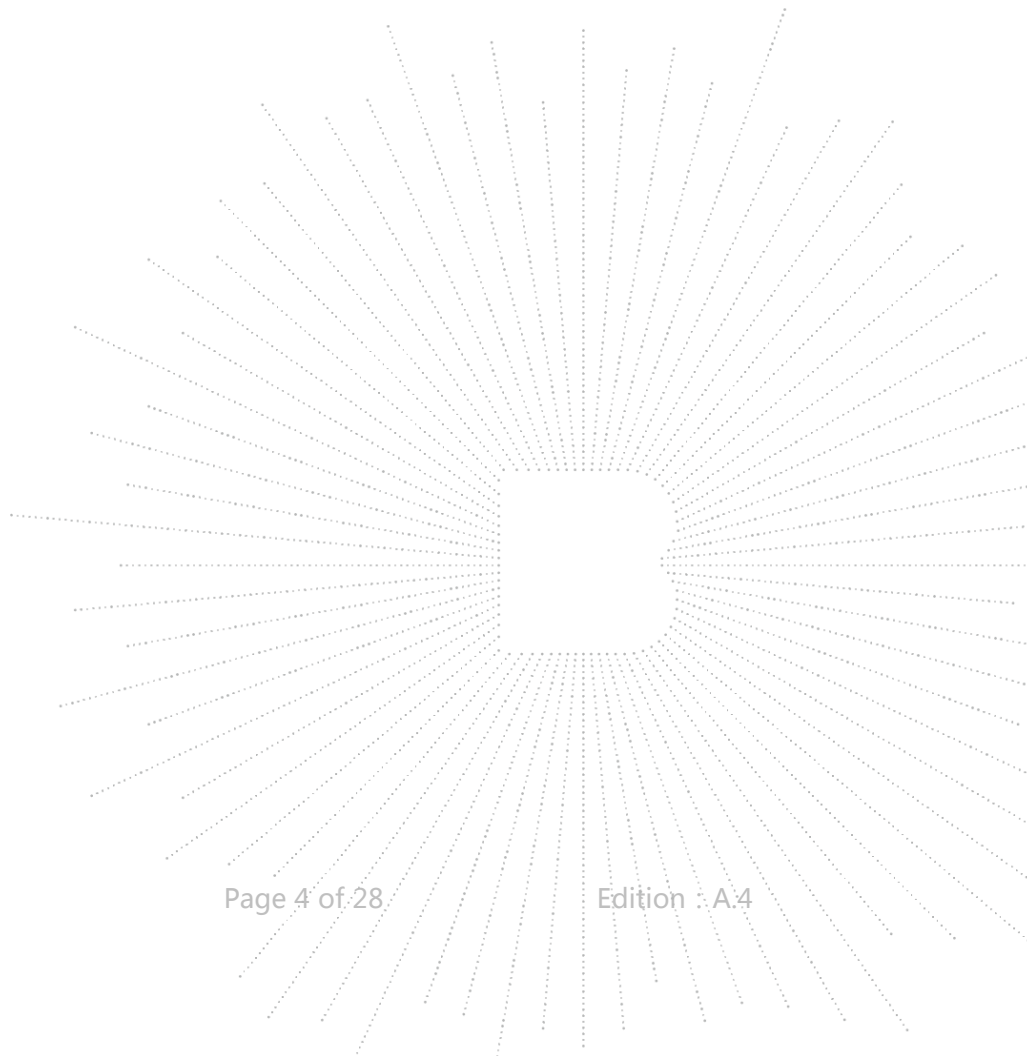
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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2112981353E	2022-01-05	Original	Valid



2. Test Summary

The Product has been tested according to the following specifications:

EMISSION		
Standard	Test Item	Test result
EN 55032	Conducted emissions from the AC mains power ports	Pass
EN 55032	Asymmetric mode conducted emissions	Pass
EN 55032	Conducted differential voltage emissions	N/A ¹
EN 55032	Radiated emissions	Pass

IMMUNITY		
Standard	Test Item	Test result
IEC 61000-4-2	Electrostatic discharge (ESD)	Pass
IEC 61000-4-3	Continuous RF electromagnetic field disturbances (RS)	Pass
IEC 61000-4-4	Electrical fast transients/burst (EFT)	N/A ¹
IEC 61000-4-5	Surges	N/A ¹
IEC 61000-4-6	Continuous induced RF disturbances (CS)	N/A ¹
IEC 61000-4-6	Broadband impulse noise disturbances, repetitive	N/A ²
IEC 61000-4-6	Broadband impulse noise disturbances, isolated	N/A ²
IEC 61000-4-8	Power frequency magnetic field (PFMF)	N/A ³
IEC 61000-4-11	Voltage dips and interruptions (DIPS)	N/A ¹

Remark:

1. The EUT is a powered by USB port.
2. Applicable only to CPE xDSL ports.
3. The Product doesn't contain any device susceptible to magnetic fields.

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Test item	Value (dB)
Conducted Emission (150kHz-30MHz)	3.20
Radiated Emission(30MHz~1GHz)	4.80
Radiated Emission(1GHz~6GHz)	4.90

4. Product Information And Test Setup

4.1 Product Information

Ratings:

Input: DC9V/12V/15V/20V 2A

Power: 18W~40W

Input From Adapter

Model differences:

All models are identical except for the appearance color, the test model is RS117-D8U and the test results are applicable to other tests.

The highest frequency of the internal sources of the EUT is (less than 108)MHz:
 less than 108 MHz, the measurement shall only be made up to 1 GHz.

 between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz.

 between 500 MHz and 1 GHz, the measurement shall only be made up to 5 GHz.

 above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 6 GHz, whichever is less.

Cable of Product

No.	Cable Type	Quantity	Provider	Length(m)	Specification	Note
1	---	---	Applicant	---	Shielded	---
2	---	---	BCTC	---	Unshielded	---

4.2 Test Setup Configuration

See test photographs attached in EUT TEST SETUP PHOTOGRAPHS for the actual connections between Product and support equipment.

4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Data Cable	Power Cord
1.	Display	AOC	T3250MDK	---	---	---
2.	Adapter	Ugreen	CD122			

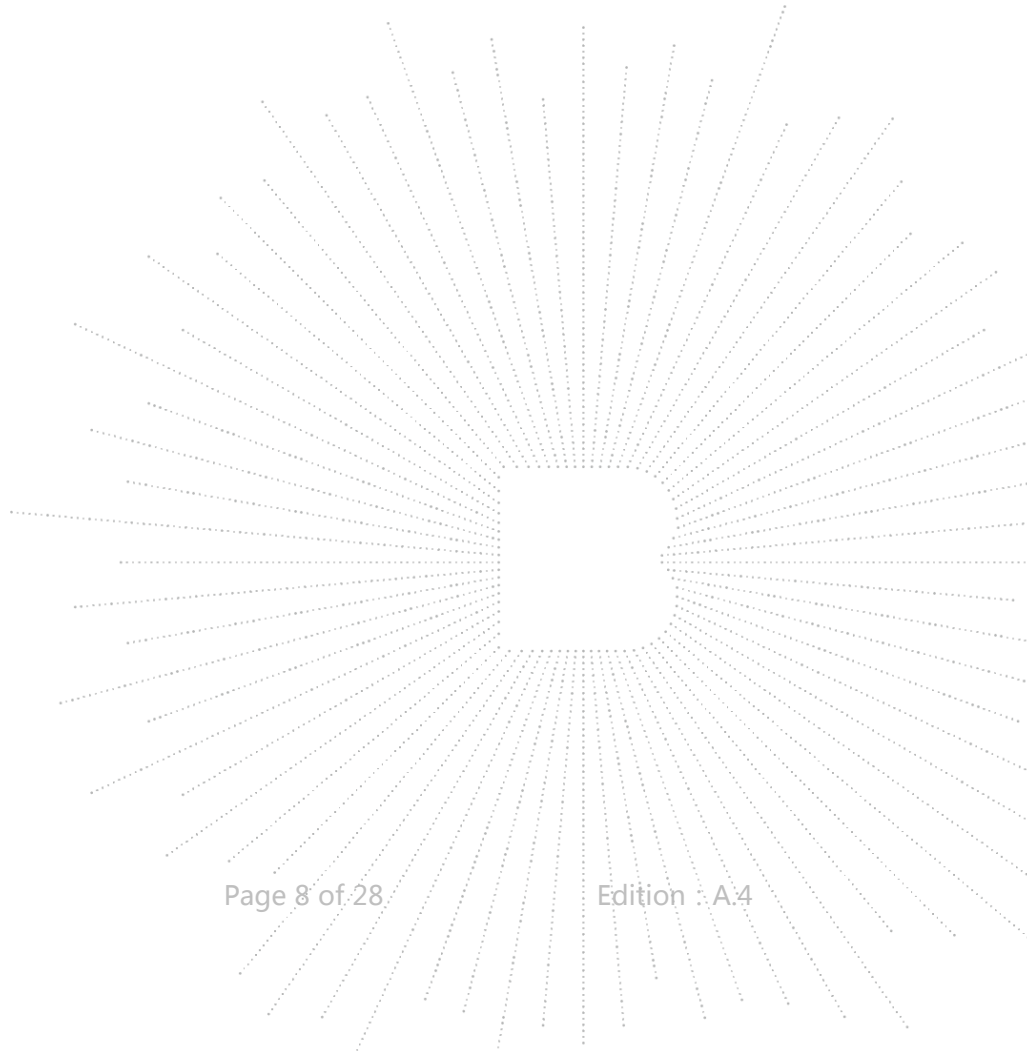
Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use

4.4 Test Mode

Test item	Test Mode	Test Voltage
Conducted emissions from the AC mains power ports (150KHz-30MHz) Class B	Working	AC 230V/50Hz
Asymmetric mode conducted emissions(150KHz-30MHz) Class B	Working	AC 230V/50Hz
Radiated disturbance(30MHz-1GHz) Class B	Working	AC 230V/50Hz
Electrostatic discharge (ESD) B <input checked="" type="checkbox"/> Air Discharge: $\pm 8\text{kV}$ <input checked="" type="checkbox"/> Contact Discharge: $\pm 4\text{kV}$ <input checked="" type="checkbox"/> HCP & VCP: $\pm 4\text{kV}$	Working	AC 230V/50Hz
Continuous RF electromagnetic field disturbances (RS) A 80MHz-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz, 3V/m, 80%	Working	AC 230V/50Hz
Working: HDMI+ mouse + keyboard + burner software + USB disk +ping IP		



5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

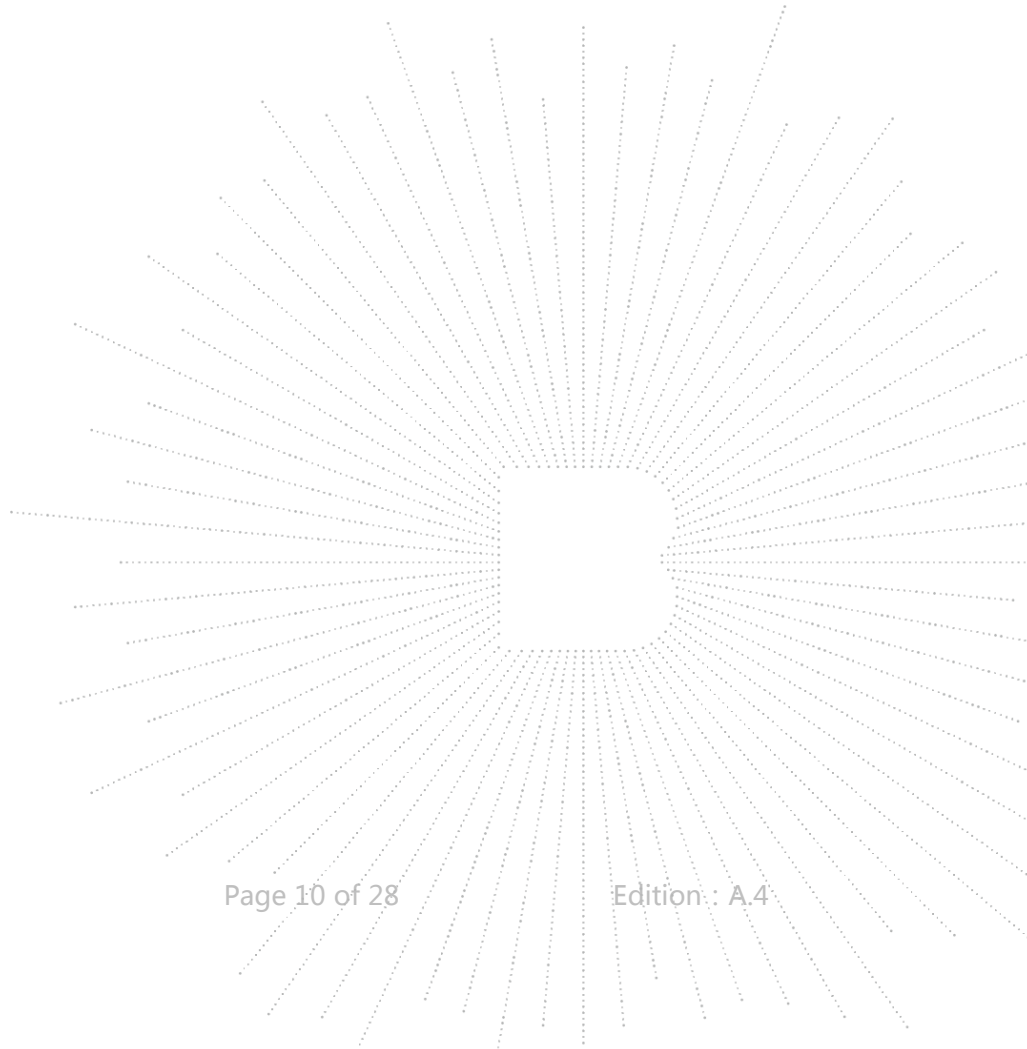
5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
ISN	HPX	ISN T800	S1509001	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 28, 2021	May 27, 2022

Radiated Emissions Test (966 Chamber#01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	schwarzbeck	VULB9163	942	Jun. 01, 2021	May 31, 2022
Horn Antenna	schwarzbeck	BBHA9120D	1541	Jun. 02, 2021	Jun. 01, 2022
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

Electrostatic Discharge Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
ESD Tester	KIKUSUI	KES4201A	UH002321	May 31, 2021	May 30, 2022

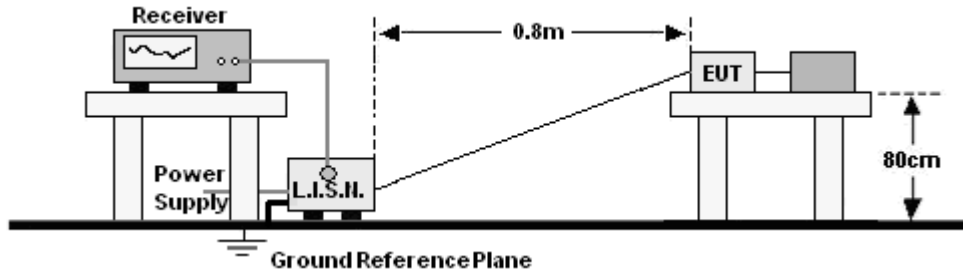
Continuous RF Electromagnetic Field Disturbances Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power meter	Keysight	E4419	\	May 28, 2021	May 27, 2022
Power sensor	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Power sensor	Keysight	E9300A	\	May 28, 2021	May 27, 2022
Amplifier	SKET	HAP_801000 -250W	\	May 28, 2021	May 27, 2022
Amplifier	SKET	HAP_0103-7 5W	\	May 28, 2021	May 27, 2022
Amplifier	SKET	HAP_0306-5 0W	\	May 28, 2021	May 27, 2022
Stacked double Log.-Per. Antenna	Schwarzbeck	STLP 9129	\	\	\
Field Probe	Narda	EP-601	\	Jun. 29, 2021	Jun. 28, 2022
Signal Generator	Agilent	N5181A	MY50143748	Jun. 29, 2021	Jun. 28, 2022
Software	SKET	EMC-S	1.2.0.18	\	\



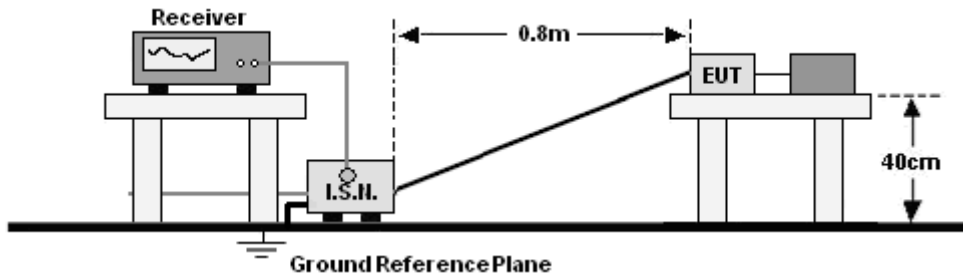
6. Conducted Emissions

6.1 Block Diagram Of Test Setup

For mains ports:



For asymmetric mode ports:



6.2 Limit

Limits for Conducted emissions at the mains ports of Class B MME

Frequency range (MHz)	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56*	56 to 46*
0,50 to 5	56	46
5 to 30	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

Limits for asymmetric mode conducted emissions of Class B MME

Frequency range (MHz)	Voltage Limits dB(μ V)		Current Limits dB(μ A)	
	Quasi-peak	Average	Quasi-peak	Average
0,15 to 0,50	84-74	74-64	40-30	30-20
0,50 to 30	74	64	30	20

Notes: *Decreasing linearly with logarithm of frequency

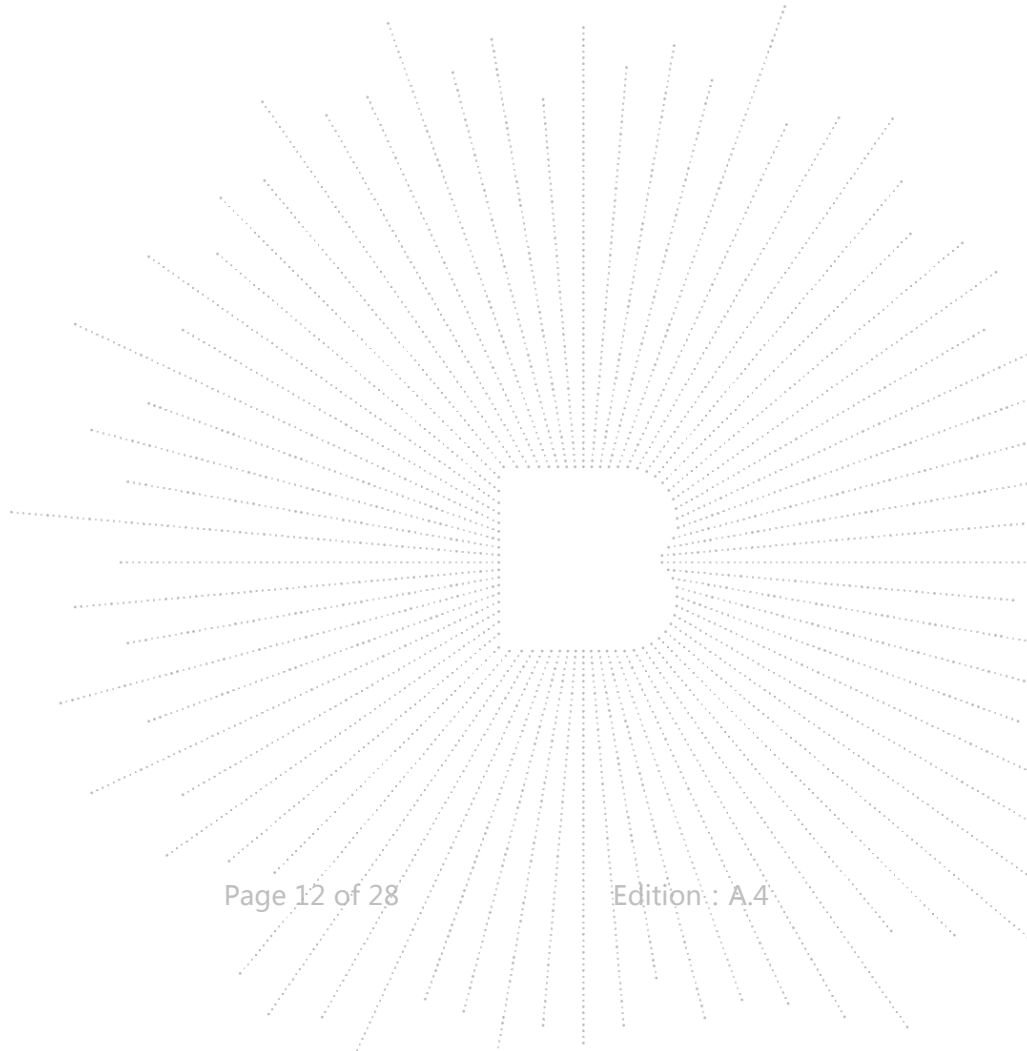
6.3 Test procedure

For mains ports:

- a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

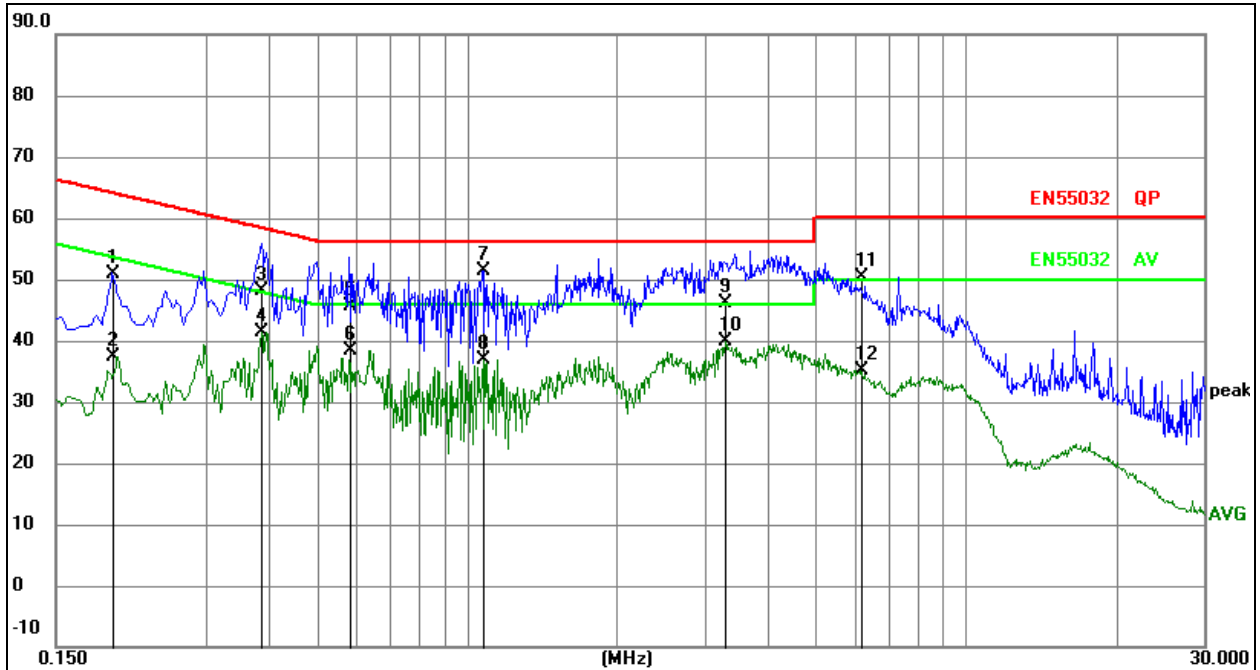
For asymmetric mode ports:

- a. The Product was placed on a non-conductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the associated port through current probe.
- b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



6.4 Test Result

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Line
Test Voltage :	AC 230V/50Hz	Test Mode:	Working

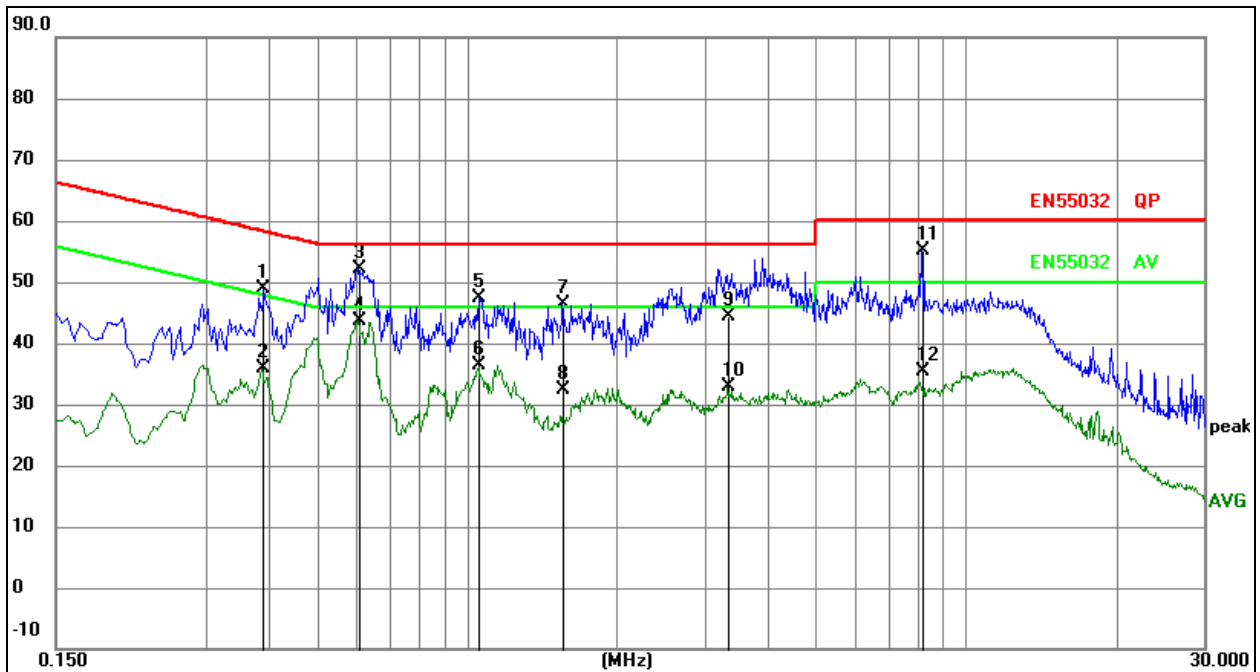


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1945	31.39	19.61	51.00	63.84	-12.84	QP
2		0.1945	17.84	19.61	37.45	53.84	-16.39	AVG
3		0.3871	28.45	19.62	48.07	58.13	-10.06	QP
4		0.3871	21.73	19.62	41.35	48.13	-6.78	AVG
5		0.5810	26.12	19.62	45.74	56.00	-10.26	QP
6		0.5810	18.80	19.62	38.42	46.00	-7.58	AVG
7	*	1.0710	31.76	19.63	51.39	56.00	-4.61	QP
8		1.0710	17.27	19.63	36.90	46.00	-9.10	AVG
9		3.2930	26.38	19.66	46.04	56.00	-9.96	QP
10		3.2930	20.28	19.66	39.94	46.00	-6.06	AVG
11		6.1534	30.58	19.73	50.31	60.00	-9.69	QP
12		6.1534	15.51	19.73	35.24	50.00	-14.76	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	Neutral
Test Voltage :	AC 230V/50Hz	Test Mode:	Working

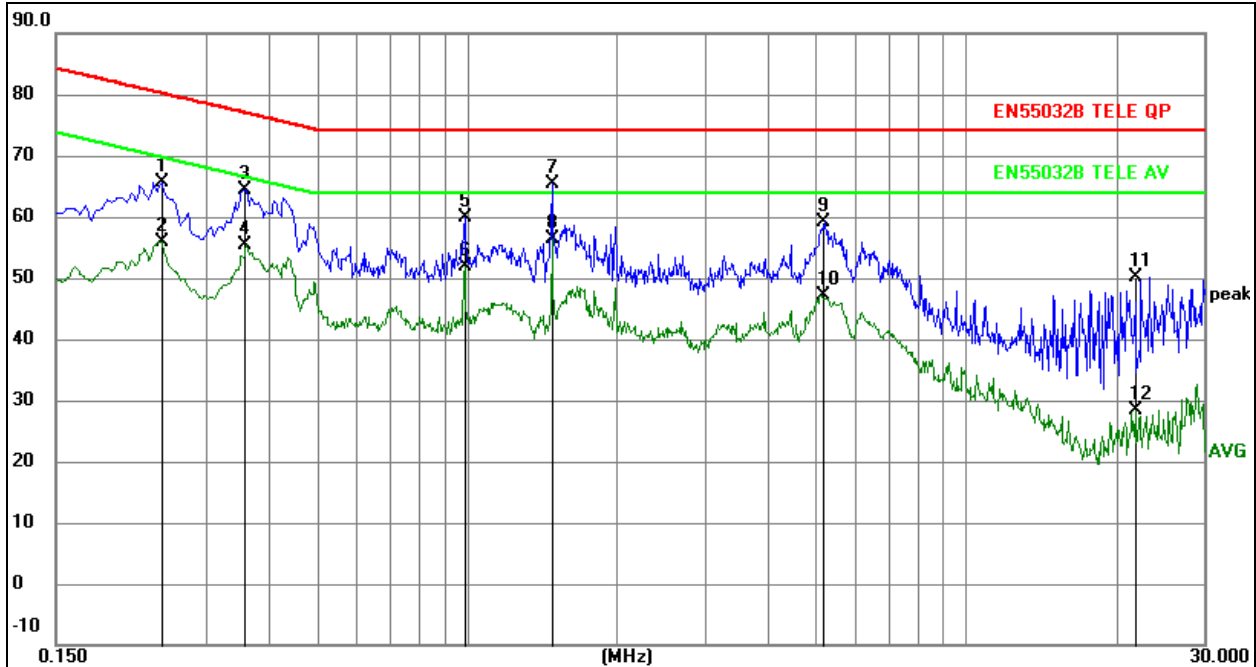


Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3885	29.15	19.62	48.77	58.10	-9.33	QP
2		0.3885	16.18	19.62	35.80	48.10	-12.30	AVG
3		0.6045	32.54	19.62	52.16	56.00	-3.84	QP
4	*	0.6045	23.95	19.62	43.57	46.00	-2.43	AVG
5		1.0545	27.86	19.63	47.49	56.00	-8.51	QP
6		1.0545	16.63	19.63	36.26	46.00	-9.74	AVG
7		1.5585	26.87	19.63	46.50	56.00	-9.50	QP
8		1.5585	12.75	19.63	32.38	46.00	-13.62	AVG
9		3.3315	24.64	19.67	44.31	56.00	-11.69	QP
10		3.3315	13.15	19.67	32.82	46.00	-13.18	AVG
11		8.1600	35.45	19.76	55.21	60.00	-4.79	QP
12		8.1600	15.60	19.76	35.36	50.00	-14.64	AVG

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	TELE
Test Voltage :	AC 230V/50Hz	Test Mode:	Working


Remark:

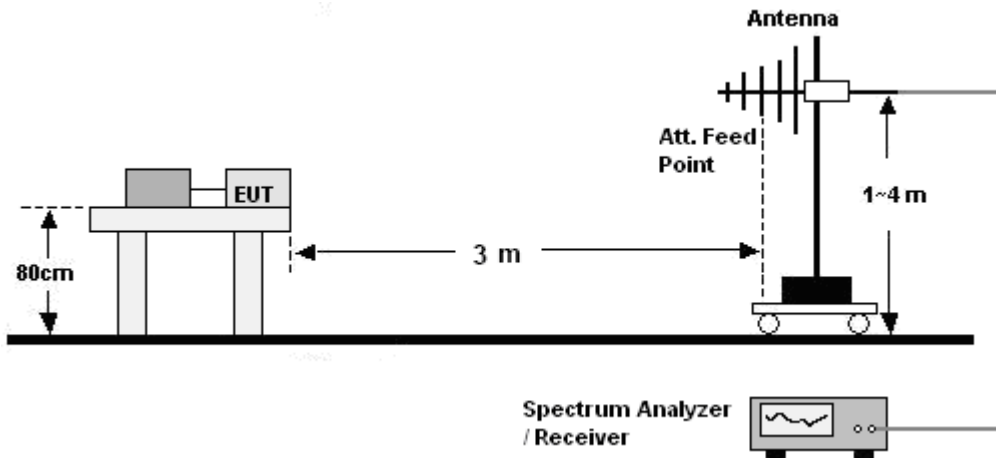
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.2445	56.17	9.51	65.68	79.94	-14.26	QP
2		0.2445	46.38	9.51	55.89	69.94	-14.05	AVG
3		0.3570	54.84	9.54	64.38	76.80	-12.42	QP
4		0.3570	45.77	9.54	55.31	66.80	-11.49	AVG
5		0.9914	50.11	9.73	59.84	74.00	-14.16	QP
6		0.9914	42.04	9.73	51.77	64.00	-12.23	AVG
7		1.4864	55.66	9.73	65.39	74.00	-8.61	QP
8	*	1.4864	46.57	9.73	56.30	64.00	-7.70	AVG
9		5.1630	49.47	9.69	59.16	74.00	-14.84	QP
10		5.1630	37.51	9.69	47.20	64.00	-16.80	AVG
11		21.9209	40.04	10.09	50.13	74.00	-23.87	QP
12		21.9209	18.41	10.09	28.50	64.00	-35.50	AVG

7. Radiated Emissions Test

7.1 Block Diagram Of Test Setup

30MHz ~ 1GHz:



7.2 Limits

Limits for radiated disturbance of Class B MME

Frequency (MHz)	Quasi-peak limits at 3m dB(μ V/m)
30-230	40
230-1000	47

Note: The lower limit shall apply at the transition frequencies.

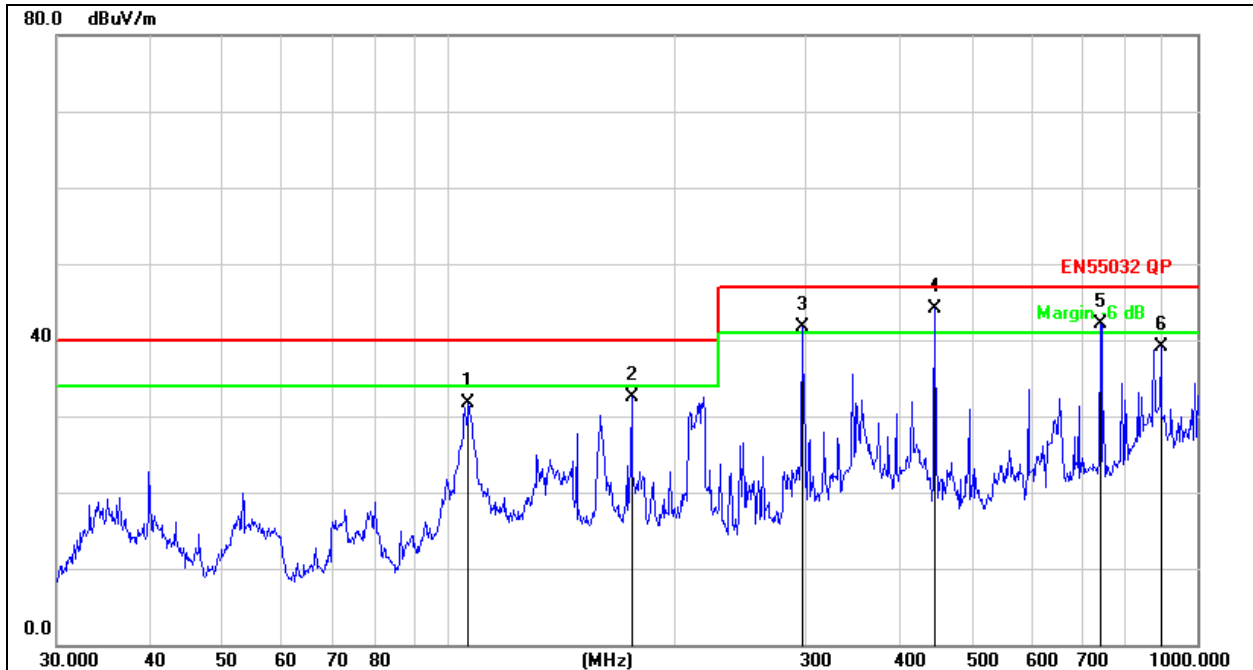
7.3 Test Procedure

30MHz ~ 1GHz:

- The Product was placed on the nonconductive turntable 0.8 m above the ground in a semi anechoic chamber.
- Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 120 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- For each frequency whose maximum record was higher or close to limit, measure its QP value: vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

7.4 Test Results

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Voltage :	AC 230V/50Hz	Test Mode:	Working

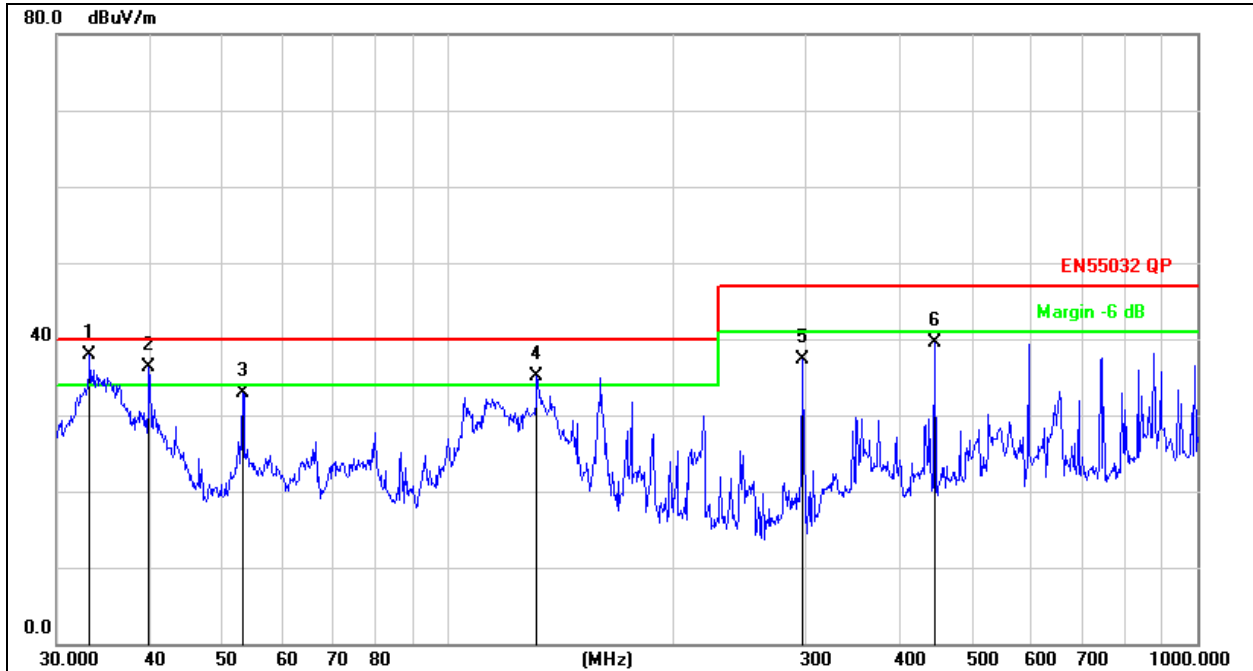


Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1		106.3850	48.18	-16.56	31.62	40.00	-8.38	QP
2		175.6516	49.94	-17.42	32.52	40.00	-7.48	QP
3	!	297.2241	55.49	-13.81	41.68	47.00	-5.32	QP
4	*	446.4141	53.71	-9.67	44.04	47.00	-2.96	QP
5	!	742.2587	45.02	-2.99	42.03	47.00	-4.97	QP
6		893.8567	38.79	0.31	39.10	47.00	-7.90	QP

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Voltage :	AC 230V/50Hz	Test Mode:	Working

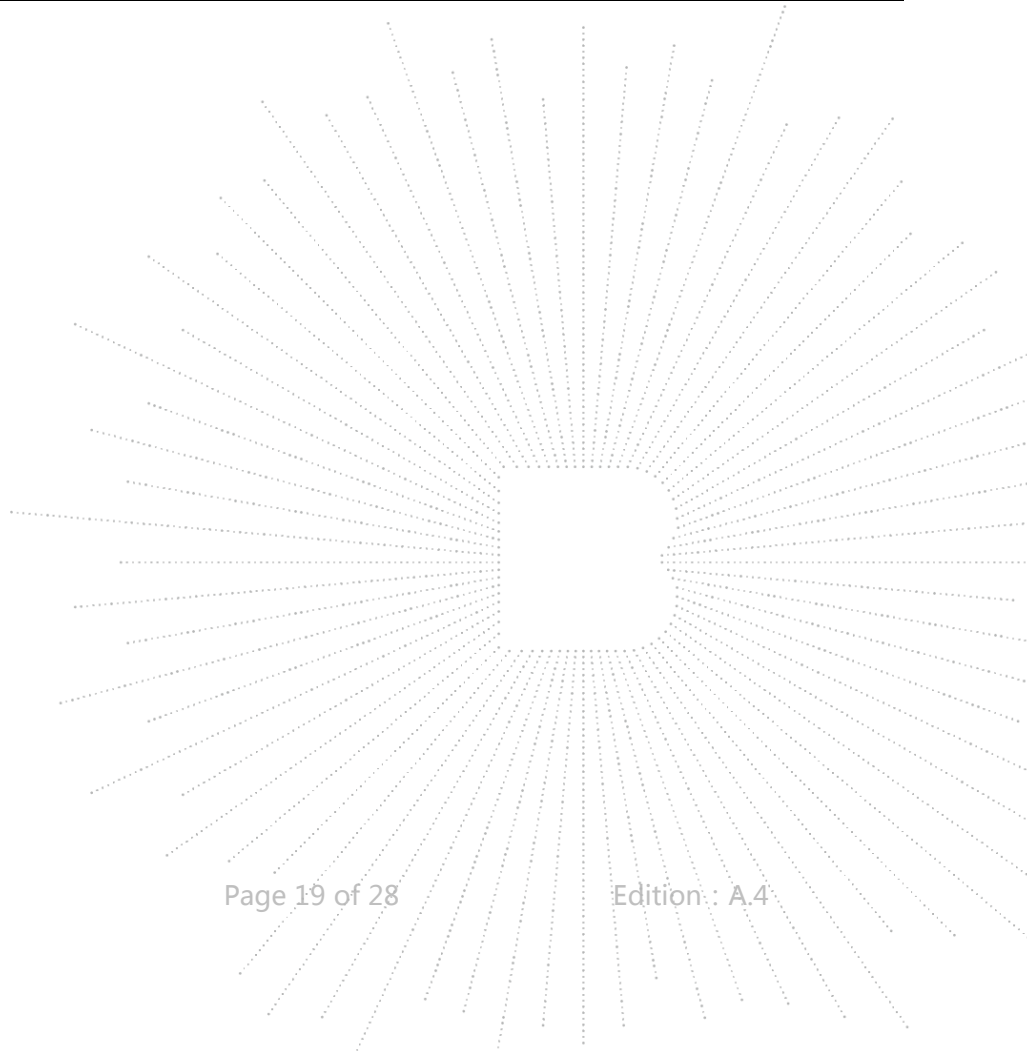


Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dB/m	dB	
1	*	33.2111	55.93	-17.95	37.98	40.00	-2.02	QP
2	!	39.8541	53.22	-16.91	36.31	40.00	-3.69	QP
3		53.1313	48.44	-15.61	32.83	40.00	-7.17	QP
4	!	131.2965	53.33	-18.23	35.10	40.00	-4.90	QP
5		297.2241	51.13	-13.81	37.32	47.00	-9.68	QP
6		446.4141	49.13	-9.67	39.46	47.00	-7.54	QP

8. Immunity Test Of General The Performance Criteria

Product Standard	EN 55035:2017+A11:2020 clause 5
CRITERION A	<p>The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment 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, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.</p>
CRITERION B	<p>During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test.</p> <p>After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.</p> <p>If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.</p>
CRITERION C	<p>Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.</p>

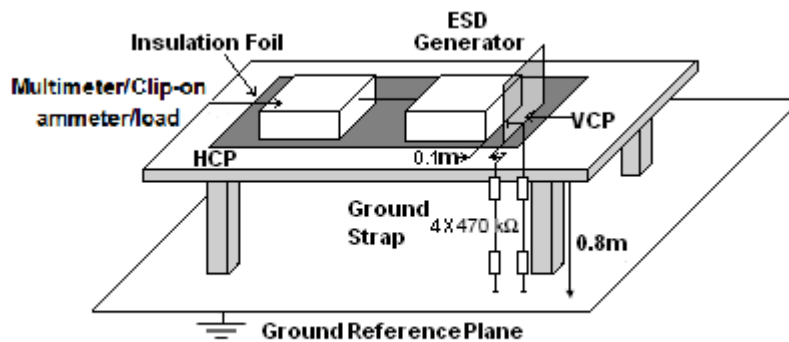


9. Electrostatic Discharge (ESD)

9.1 Test Specification

Test Port	Enclosure port
Discharge Impedance	330 ohm / 150 pF
Discharge Mode	Single Discharge
Discharge Period	one second between each discharge

9.2 Block Diagram of Test Setup



9.3 Test Procedure

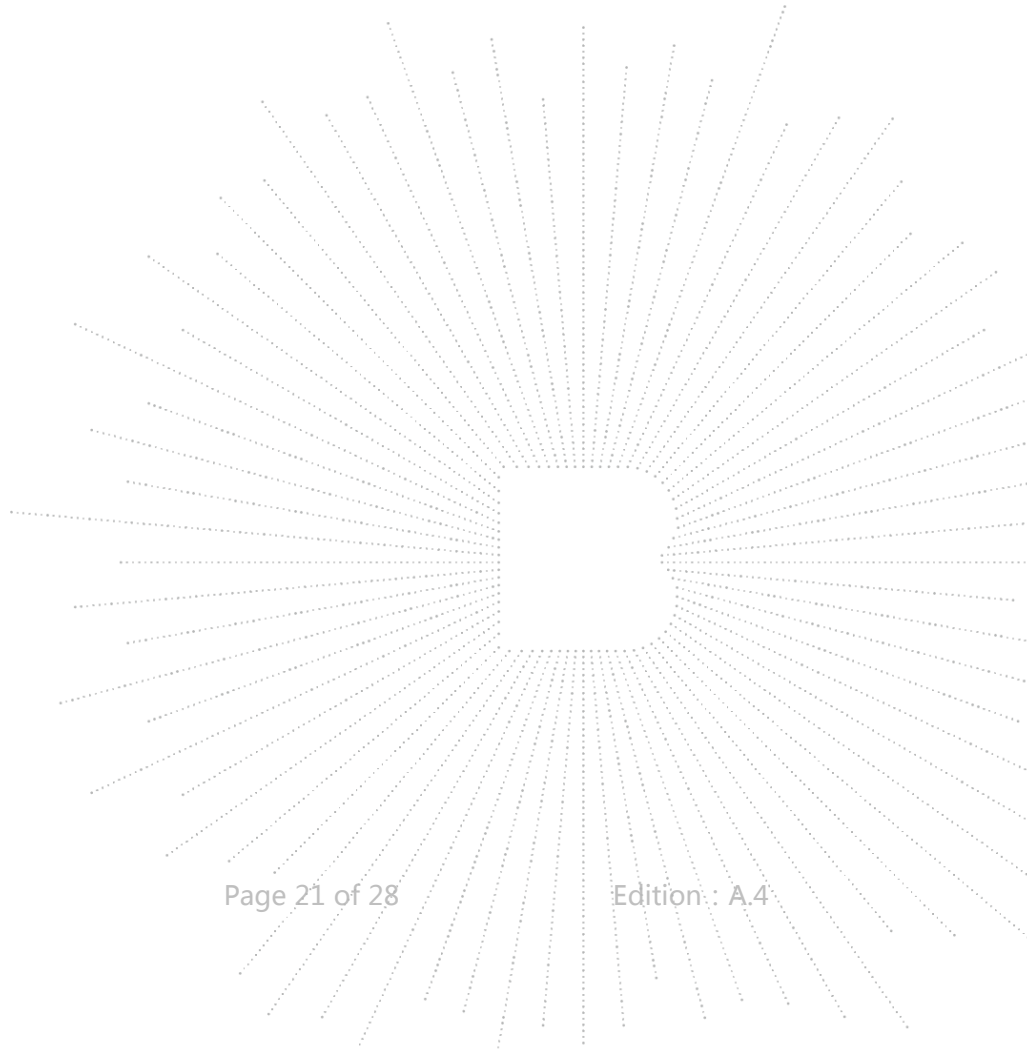
- Electrostatic discharges were applied only to those points and surfaces of the Product that are accessible to users during normal operation.
- The test was performed with at least ten single discharges on the pre-selected points in the most sensitive polarity.
- The time interval between two successive single discharges was at least 1 second.
- The ESD generator was held perpendicularly to the surface to which the discharge was applied and the return cable was at least 0.2 meters from the Product.
- Contact discharges were applied to the non-insulating coating, with the pointed tip of the generator penetrating the coating and contacting the conducting substrate.
- Air discharges were applied with the round discharge tip of the discharge electrode approaching the Product as fast as possible (without causing mechanical damage) to touch the Product. After each discharge, the ESD generator was removed from the Product and re-triggered for a new single discharge. The test was repeated until all discharges were complete.
- At least ten single discharges (in the most sensitive polarity) were applied to the Horizontal Coupling Plane at points on each side of the Product. The ESD generator was positioned vertically at a distance of 0.1 meters from the Product with the discharge electrode touching the HCP.
- At least ten single discharges (in the most sensitive polarity) were applied to the center of one vertical edge of the Vertical Coupling Plane in sufficiently different positions that the four faces of the Product were completely illuminated. The VCP (dimensions 0.5m x 0.5m) was placed vertically to and 0.1 meters from the Product.

9.4 Test Results

Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Mode:	Working
Test Voltage :	AC 230V/50Hz		

Discharge Method	Discharge Position	Voltage (±kV)	Min. No. of Discharge per polarity (Each Point)	Required Level	Performance Criterion
Contact Discharge	Conductive Surfaces	4	10	B	B*
	Indirect Discharge HCP	4	10	B	B*
	Indirect Discharge VCP	4	10	B	B*
Air Discharge	Slots, Apertures, and Insulating Surfaces	8	10	B	B*

Note*During the test, the product disconnects the charging connection, and the charging connection will be restored automatically after the interference end.



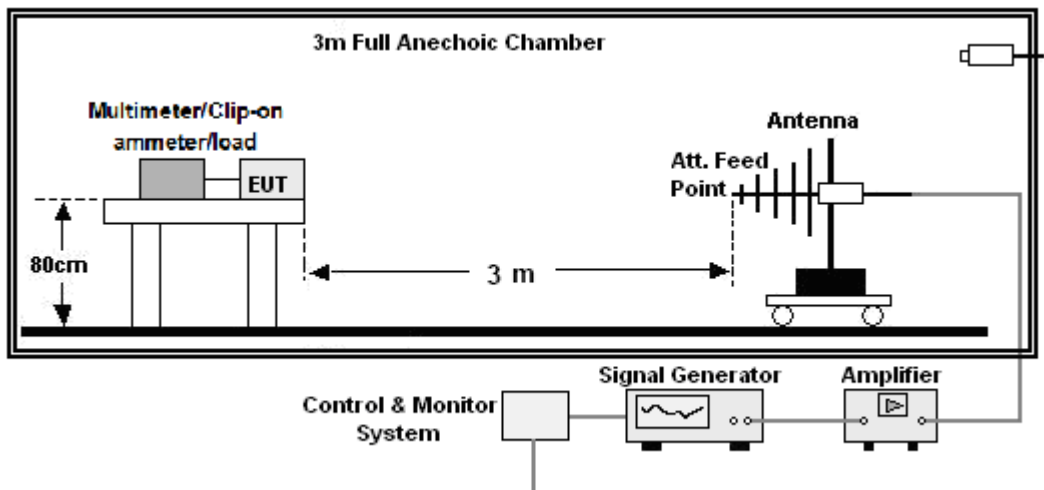
10. Continuous RF Electromagnetic Field Disturbances (RS)

10.1 Test Specification

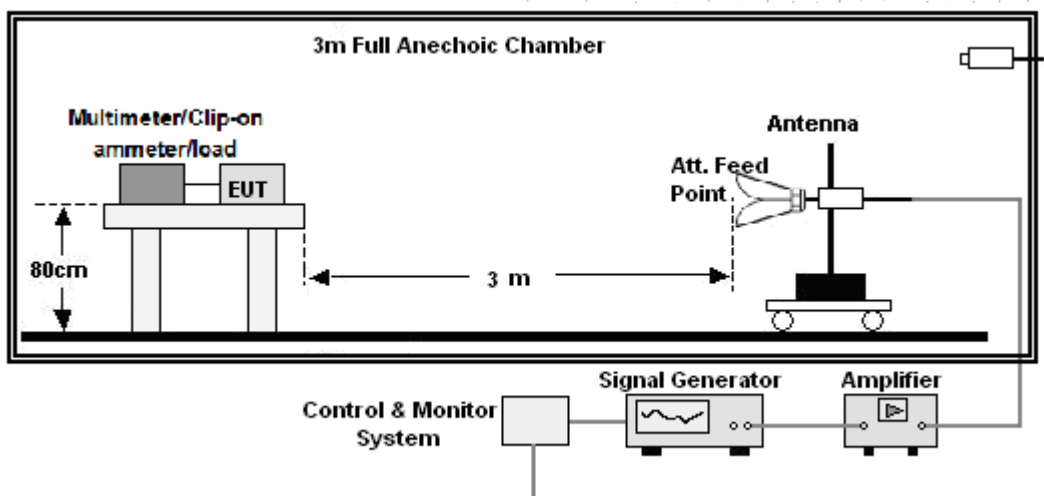
Test Port	:	Enclosure port
Step Size	:	1%
Modulation	:	1kHz, 80% AM
Dwell Time	:	1 second
Polarization	:	Horizontal & Vertical

10.2 Block Diagram of Test Setup

Below 1GHz:



Above 1GHz:



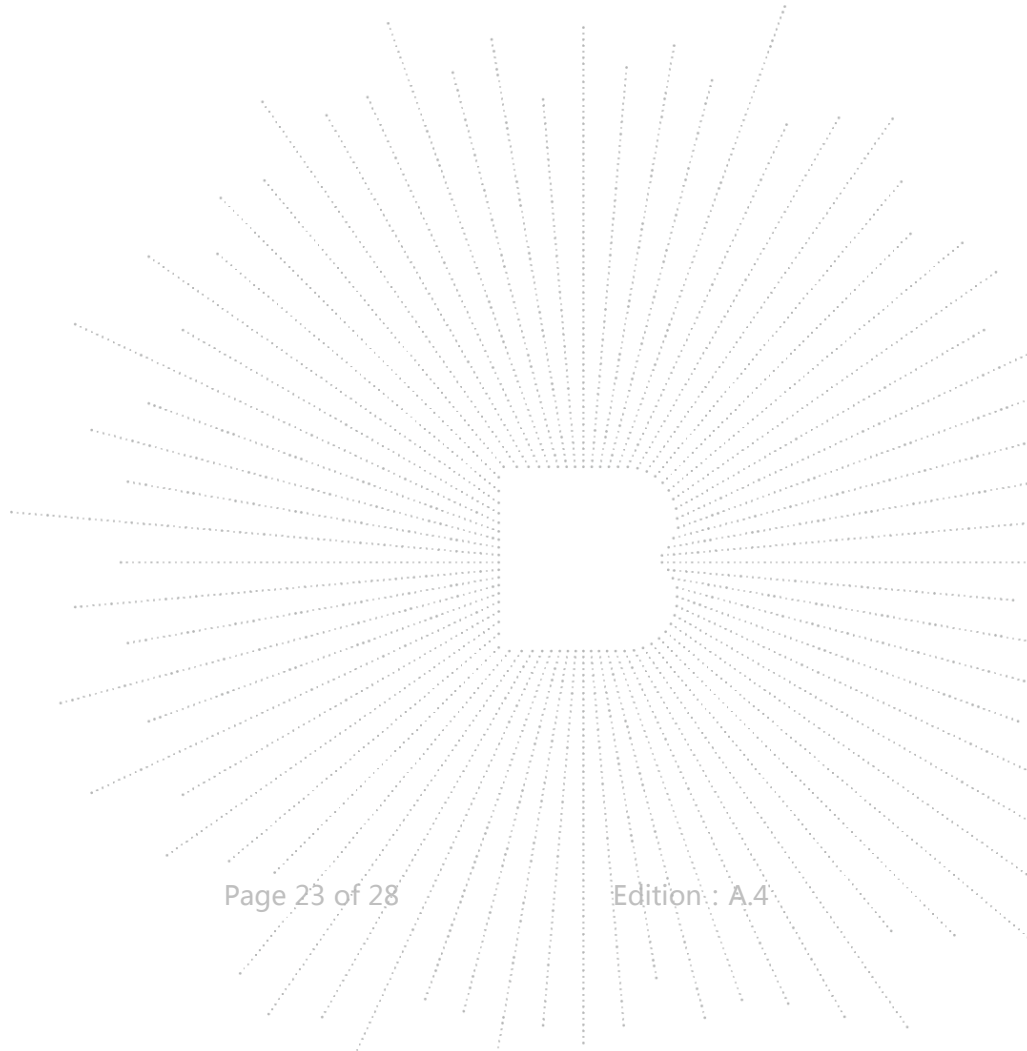
10.3 Test Procedure

- a. The testing was performed in a fully-anechoic chamber. The transmit antenna was located at a distance of 3 meters from the Product.
- b. The frequency range is swept from 80MHz to 1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz, with the signal 80% amplitude modulated with a 1 kHz sine wave, and the step size was 1%.
- c. The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised and to be able to respond, but should not exceed 5 s at each of the frequencies during the scan.
- d. The test was performed with the Product exposed to both vertically and horizontally polarized fields on each of the four sides.
- e. For Broadcast reception function: Group 2 not apply in this test.

10.4 Test Results

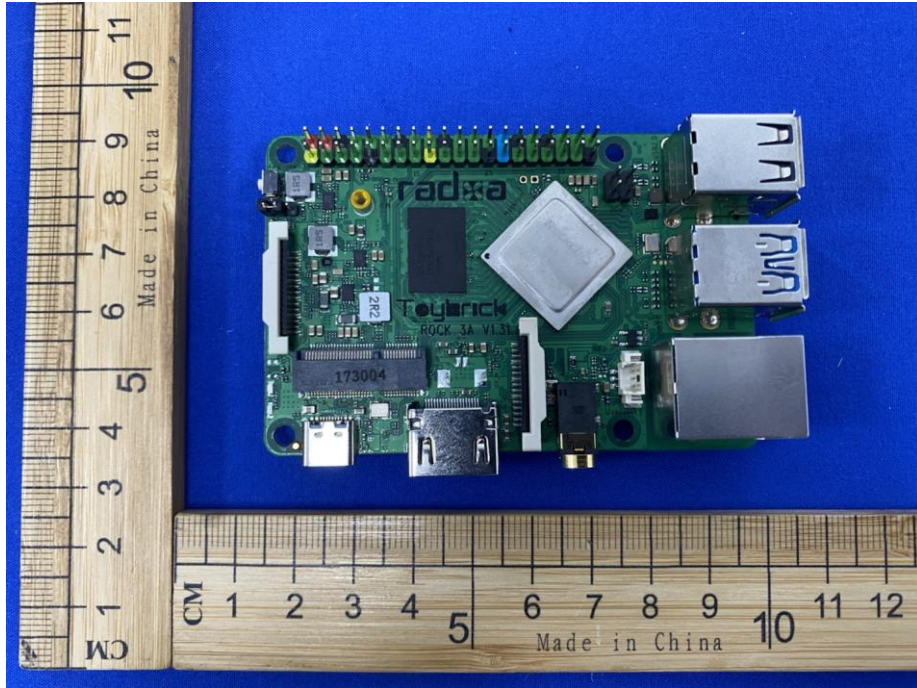
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Mode:	Working
Test Voltage :	AC 230V/50Hz		

Frequency	Position	Field Strength (V/m)	Required Level	Performance Criterion
80 - 1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz	Front, Right, Back, Left	3	A	A

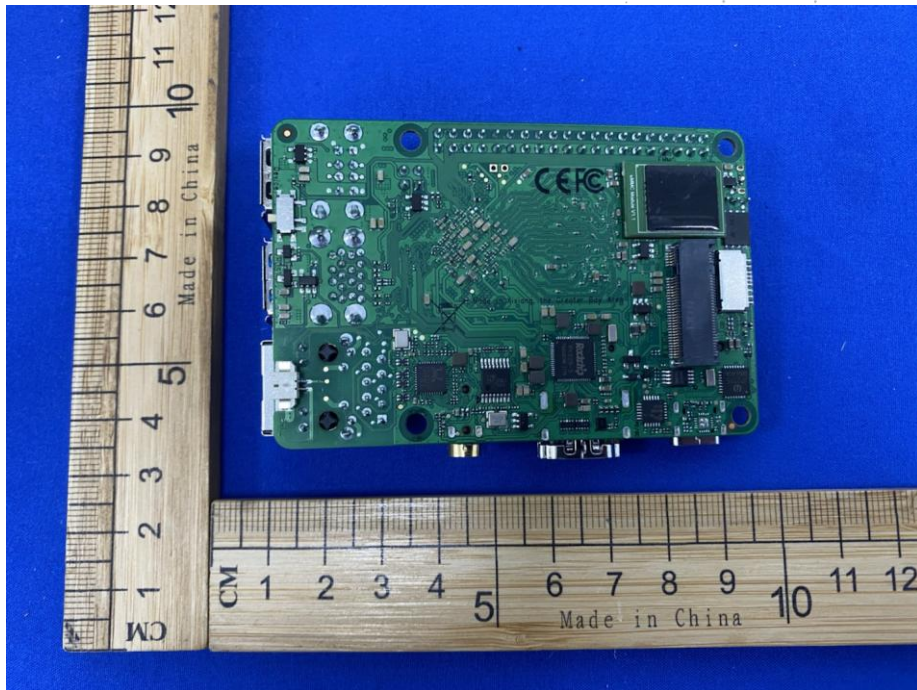


11. EUT Photographs

EUT Photo 1

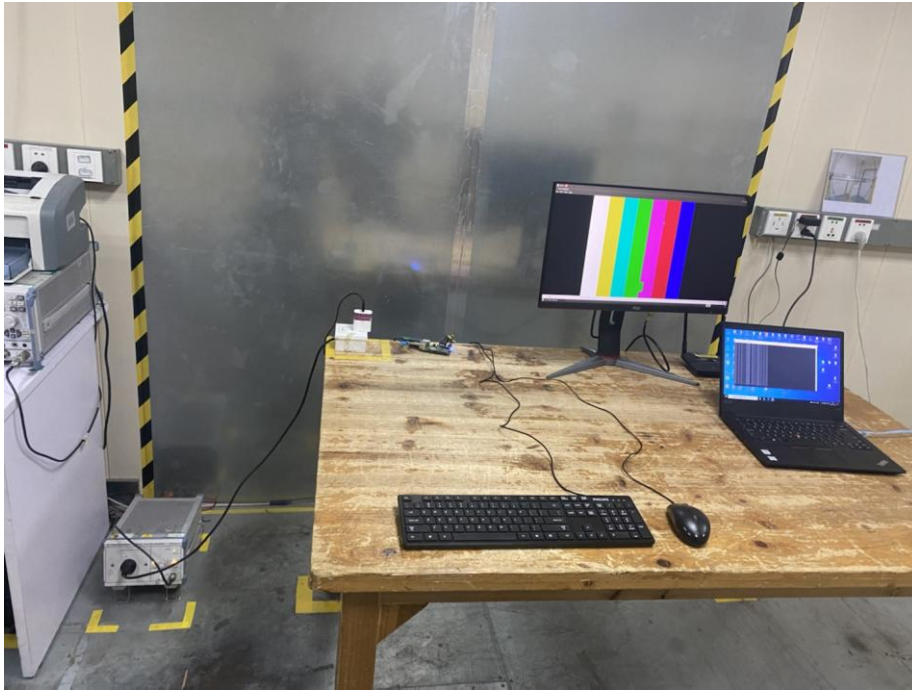


EUT Photo 2



12. EUT Test Setup Photographs

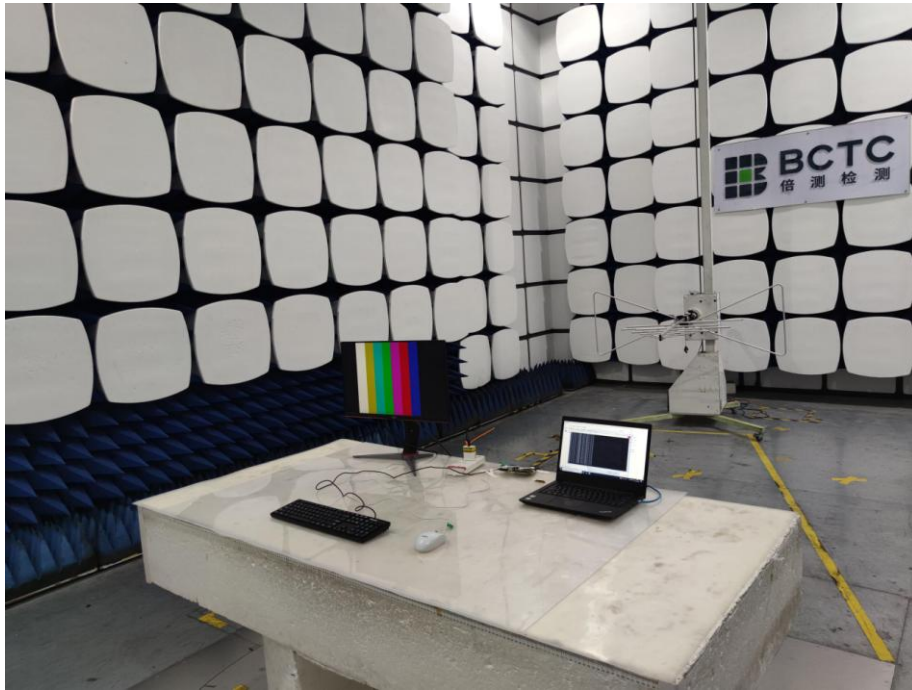
Conducted Emissions



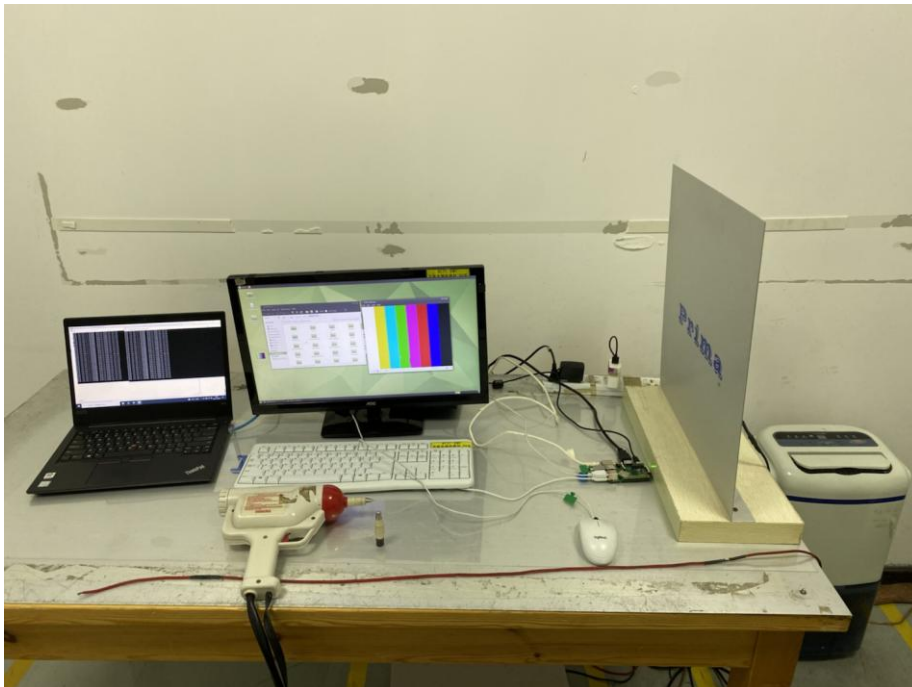
TELE



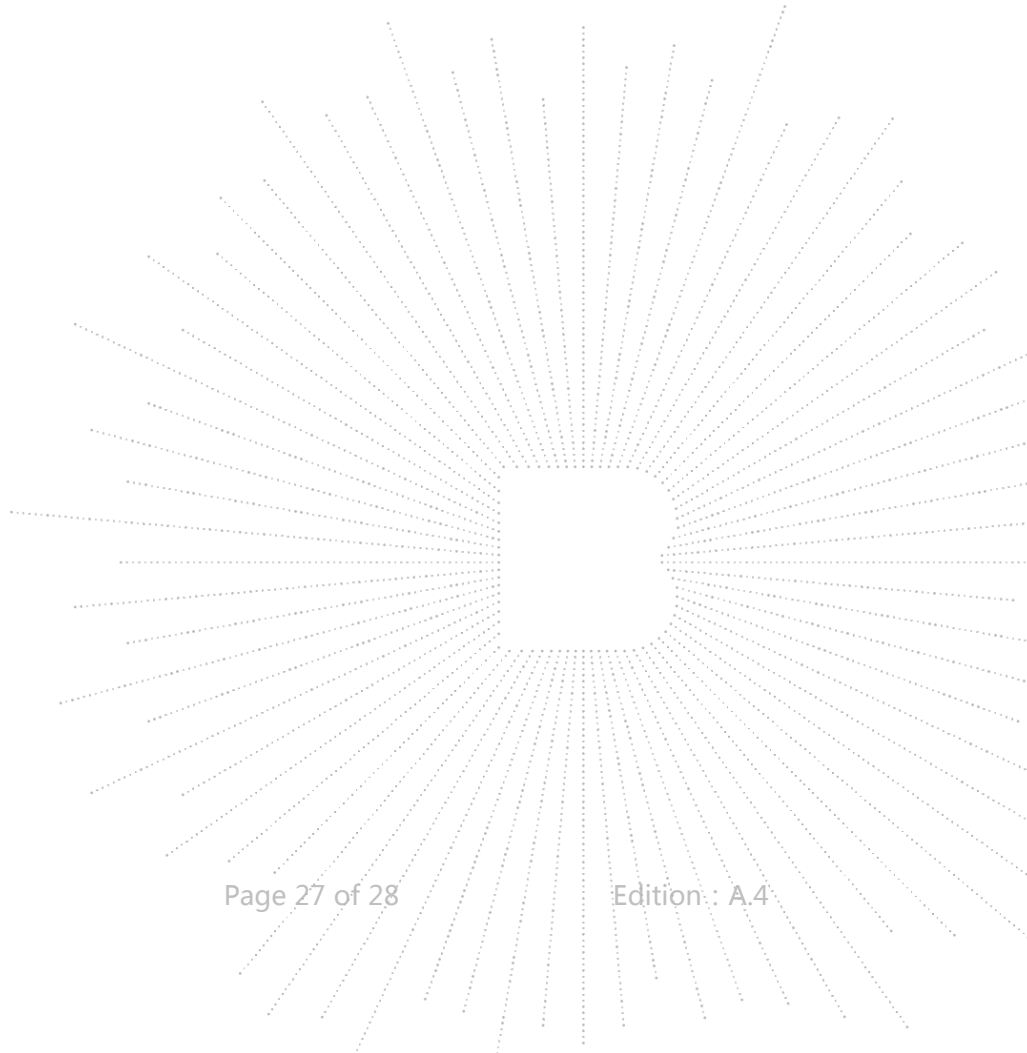
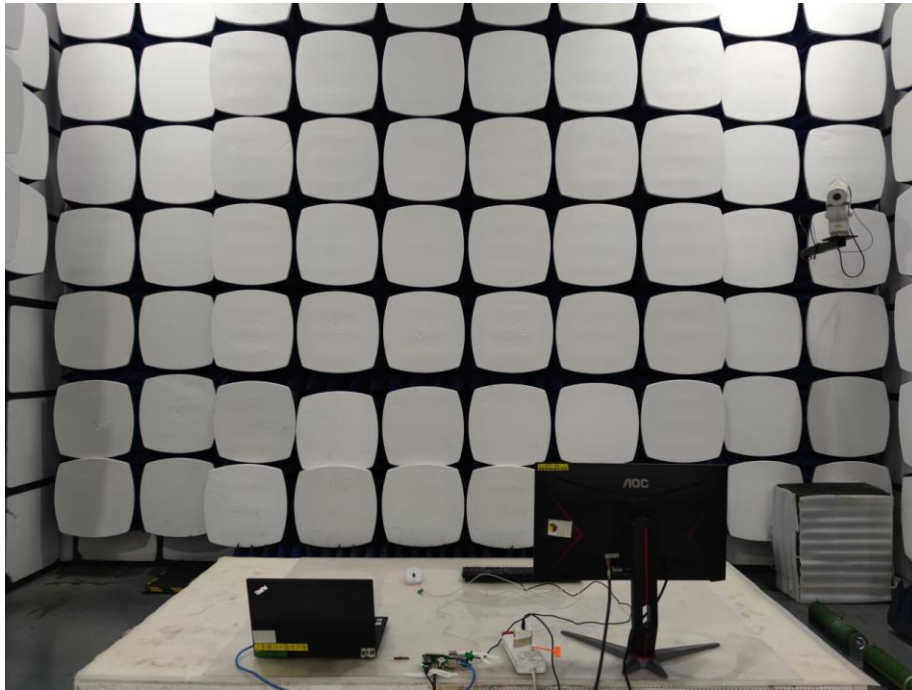
Radiated emissions



ESD



RS



STATEMENT

- 1.The equipment lists are traceable to the national reference standards.
- 2.The test report can not be partially copied unless prior written approval is issued from our lab.
- 3.The test report is invalid without stamp of laboratory.
- 4.The test report is invalid without signature of person(s) testing and authorizing.
- 5.The test process and test result is only related to the Unit Under Test.
- 6.The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

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TEL : 400-788-9558

P.C.: 518103

FAX : 0755-33229357

Website : <http://www.chnbctc.com>

E-Mail : bctc@bctc-lab.com.cn

***** END *****