

RF TEST REPORT

FCC ID: 2BTY9-PBE1020

Test Report No.....: RF251229036-01-001

Product(s) Name.....: JUCANI Wireless Charging POWER BANK

Model(s).....: PBE1020, PB-Elite-10K-20W

Trade Mark.....: 

Applicant.....: jucani inc

Address.....: Suite A2, 7498 Colchester Court San Diego, California 92154

Receipt Date.....: 2025.12.31

Test Date.....: 2026.01.07 ~ 2026.01.29

Issued Date.....: 2026.01.30

Standards.....: 47 CFR FCC Part 15, Subpart C;

ANSI C63.10:2020

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
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<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

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History of this test report

Original Report Issue Date: 2026.01.30

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. General Information

1.1 Applicant

jucani inc

Suite A2, 7498 Colchester Court San Diego, California 92154

1.2 Manufacturer

jucani inc

Suite A2, 7498 Colchester Court San Diego, California 92154

1.3 Basic Description of Equipment Under Test

Sample No.	POC251229036-S001
Product name	JUCANI Wireless Charging POWER BANK
Model name	PBE1020, PB-Elite-10K-20W
Test model	PBE1020
Model difference	Only the model name and colors are different
Trade mark	
Power supply:	DC 5V from adapter or DC 3.85V from battery
WPT Output Power:	15W Max/10W/7.5W/5W
Modulation type	ASK
Operating frequency	111-205kHz
Antenna type	Coil Antenna
Antenna Gain	0 dBi

1.4 Application of Standard

47 CFR FCC Part 15, Subpart C and ANSI C63.10:2020

1.5 Independent Operation Modes

The basic operation modes are:

- A. Charging+Wireless charging(15W)
- B. Charging+Wireless charging(10W)
- C. Charging+Wireless charging(7.5W)
- D. Charging+Wireless charging(5W)
- E. Wireless charging(15W)
- F. Wireless charging(10W)
- G. Wireless charging(7.5W)
- H. Wireless charging(5W)

2. Summary of Test Results

2.1 Summary of Test Items

47 CFR FCC Part 15, Subpart C		
Test Item	FCC Clause	Results
AC Power Conducted Emission	15.207	Pass
Radiated Emission	15.209	Pass
Antenna Requirement	15.203	Pass
20dB Bandwidth	15.215(c)	Pass
Note: Pass: The EUT complies with the essential requirements in the standard.		

2.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Wireless charger load	EESON	SLY-YZB-A01	/
Power Supply Unit	GOLDEN LAKE	VCA7JBUH	J520476BA1012154

2.3 Test Condition

Applicable to	Environmental conditions	Input Power	Tested by
AC Power Conducted Emission	22.9°C, 51 % RH	120Vac, 60Hz	Lemon He
Radiated Emission	23.1°C, 48 % RH	120Vac, 60Hz	Lemon He
20dB Bandwidth	22.9°C, 51 % RH	120Vac, 60Hz	Lemon He

2.4 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

2.5 Test Instruments

No.	Equipment	Manufacturer	Type No.	Serial No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal. Due date (yyyy/mm/dd)
Radiated Emissions							
1	Test receiver	Rohde&Schwarz	ESU	100184	JLE011	2025/3/1	2026/2/28
2	Log periodic antenna	Schwarzbeck	VULB 9168	1151	JLE012	2025/4/12	2026/4/11
3	Low frequency amplifier	/	LNA 0920N	2014	JLE023	2025/3/1	2026/2/28
4	High frequency amplifier	Schwarzbeck	BBV 9718	9718-284	JLE024	2025/3/1	2026/2/28
5	Horn Antenna	SCHWARZBECK	BBHA 9120 D	02670	JLE028	2025/4/12	2026/4/11
6	Temp&Humidity Recorder	Meideshi	JR900	/	JLE021	2025/4/15	2026/4/14
7	Horn Antenna	SCHWARZBECK	BBHA 9170	9170#685	JLE029	2024/7/15	2027/7/14
8	Loop Antenna	SCHWARZBECK	FMZB151 9B	00029	JLE030	2024/7/15	2027/7/14
9	Broadband preamplifier	Schwarzbeck	BBV9721	9721-019	JLE025	2025/3/1	2026/2/28
10	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				
RF Conducted Emission							
1	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2025/3/1	2026/2/28
Conducted Emission							
1	LISN	Rohde&Schwarz	ENV216	100075	JLE002	2025/3/1	2026/2/28
2	ISN	Schwarzbeck	CATE 5 8158	#171	JLE003	2025/2/21	2026/2/20
3	Test receiver	Rohde&Schwarz	ESCI	100718	JLE010	2025/3/1	2026/2/28
4	Pulse limiter	Rohde&Schwarz	ESH3-Z2	102299	JLE047	2025/3/1	2026/2/28
5	Temp&Humidity Recorder	Meideshi	JR900	/	JLE020	2025/4/15	2026/4/14
6	Test software	Farad Technology Co., Ltd	EZ-EMC Ver.TW-03A2				

2.6 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Uncertainty	
Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 102\text{kHz}$
RF power conducted	$\pm 0.243\text{dB}$
Power Spectral Density	$\pm 0.743\text{dB}$
Conducted Spurious Emission	$\pm 1.328\text{dB}$
Conducted emission(9kHz~30MHz) AC main	$\pm 2.68\text{dB}$
Radiated emission(9kHz~30MHz)	$\pm 3.50\text{dB}$
Radiated emission (30MHz~1GHz)	$\pm 4.20\text{dB}$
Radiated emission (1GHz~18GHz)	$\pm 5.10\text{dB}$
Radiated emission (18GHz~40GHz)	$\pm 5.26\text{dB}$

2.7 Test Location

Company:	Shenzhen Haiyun Standard Technical Co., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier	CN0145
A2LA Certificate Number	6823.01

3. Test Procedure And Results

3.1 AC Power Line Conducted Emission

3.1.1 Limit

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 ~ 0.50	79	66	66 - 56	56 - 46
0.50 ~ 5.00	73	60	56	46
5.00 ~ 30.0	73	60	60	50

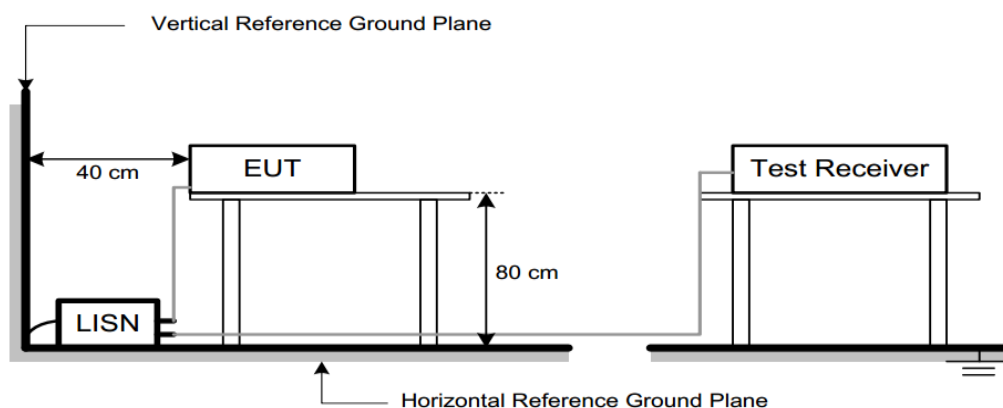
Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 Test Procedure

- a) The EUT was placed 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (AMN). All other support equipment powered from additional AMN. The AMN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b) Interconnecting cables that hang closer than 0.4 m to the ground plane shall be folded back and forth in the center forming a bundle 0.3 m to 0.4 m long.
- c) The frequency range from 150 kHz to 30 MHz was searched.
- d) Actual test configuration, please refer to the related Item – EUT Test Photos.
- e) The thickness of the insulation shall not be more than 150 mm.

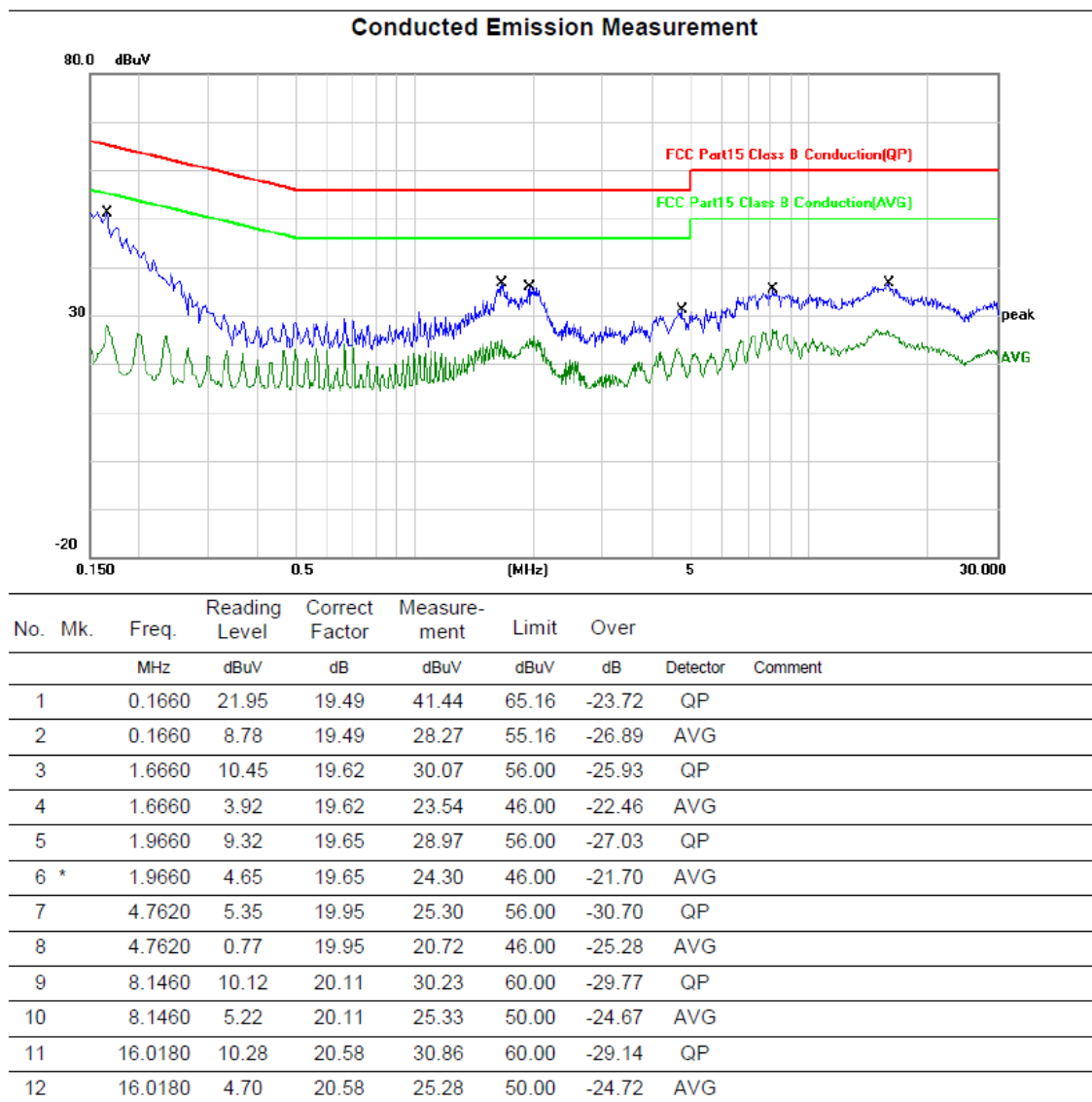
3.1.3 Test Setup



3.1.4 Test Result

The test mode A is found to be the worst case and recorded.

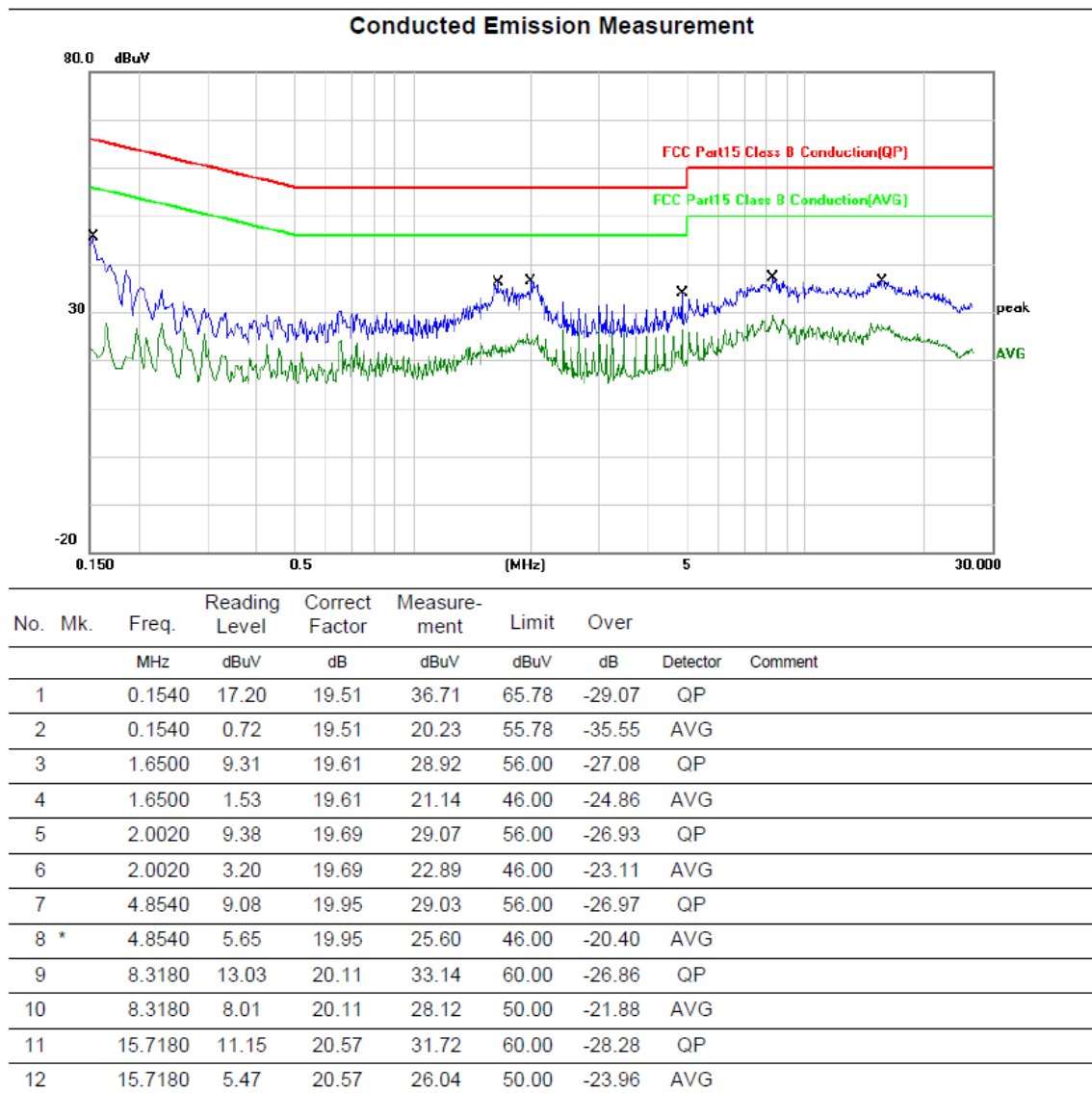
Test Frequency range:	150kHz~30MHz
Test mode:	A
Test voltage:	AC 120V/60Hz
Phase	Line



Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement - Limit

Test Frequency range:	150kHz~30MHz
Test mode:	A
Test voltage:	AC 120V/60Hz
Phase	Neutral



Note:

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement - Limit

3.2 Radiated Emissions

3.2.1 Limit

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

(4) The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

3.2.2 Test Procedure

Below 30MHz

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

30MHz~1GHz

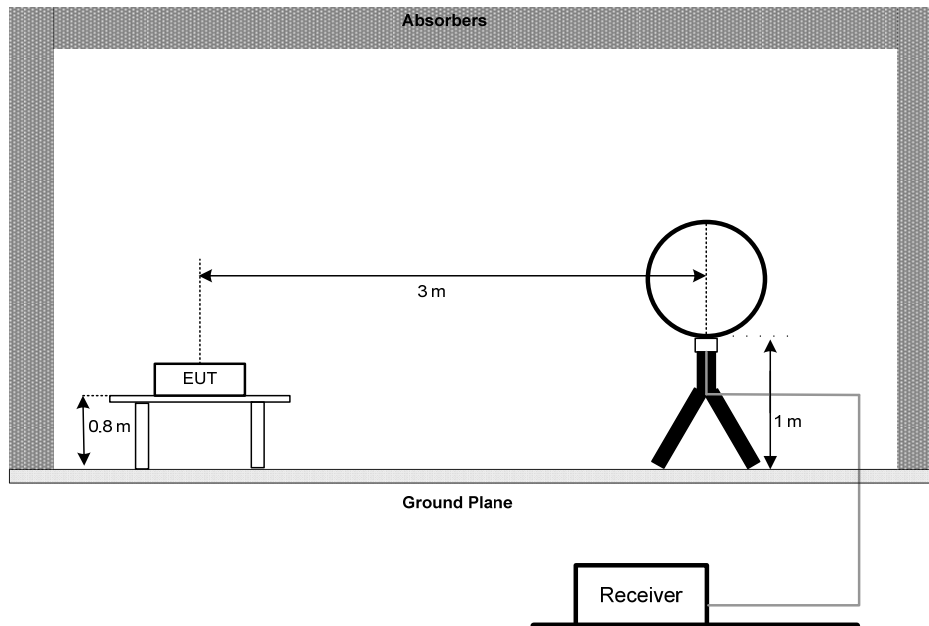
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of

the antenna are set to make the measurement.

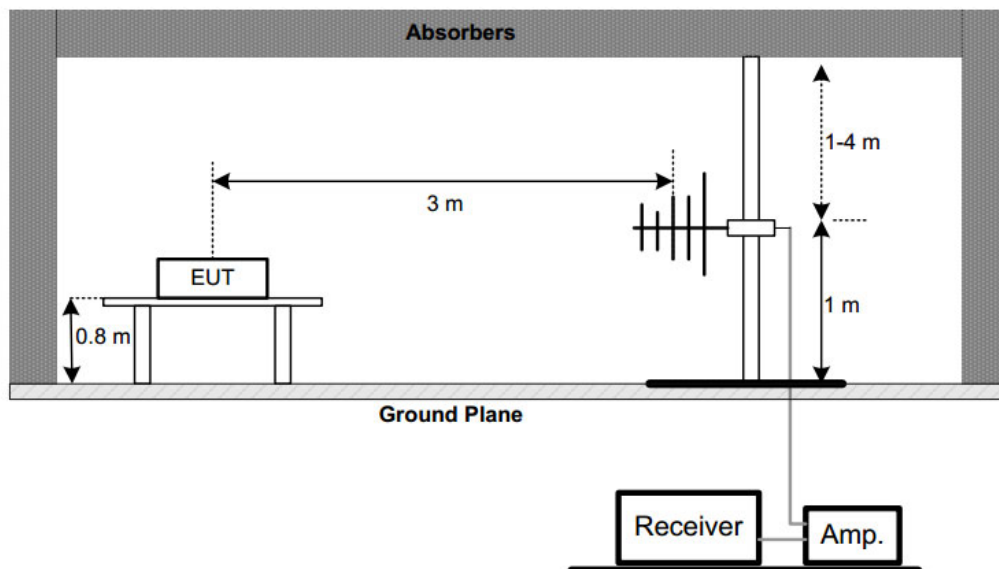
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

3.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency Below 30MHz



(B) Radiated Emission Test Set-Up Frequency Below 1 GHz

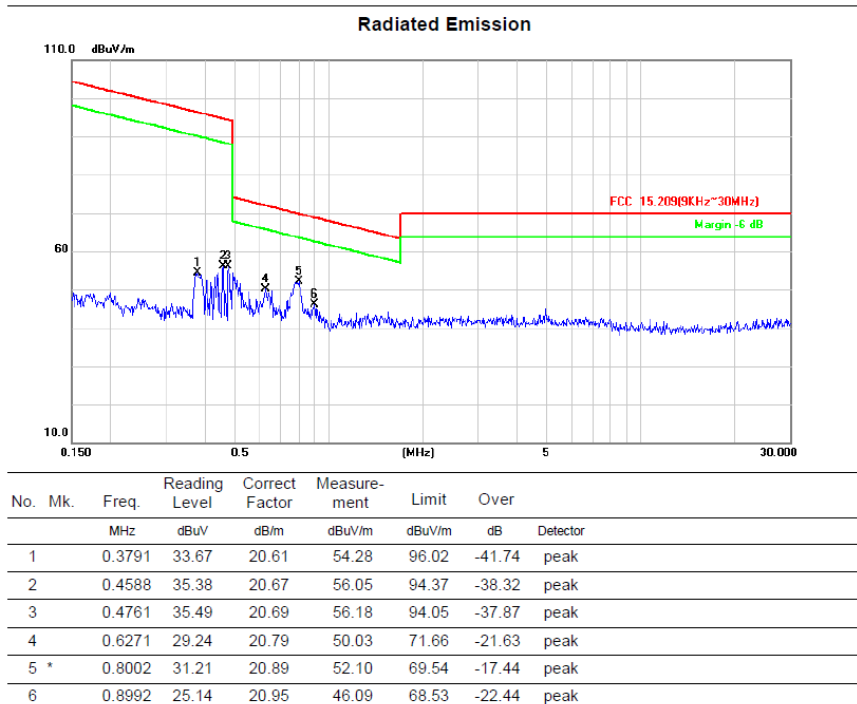
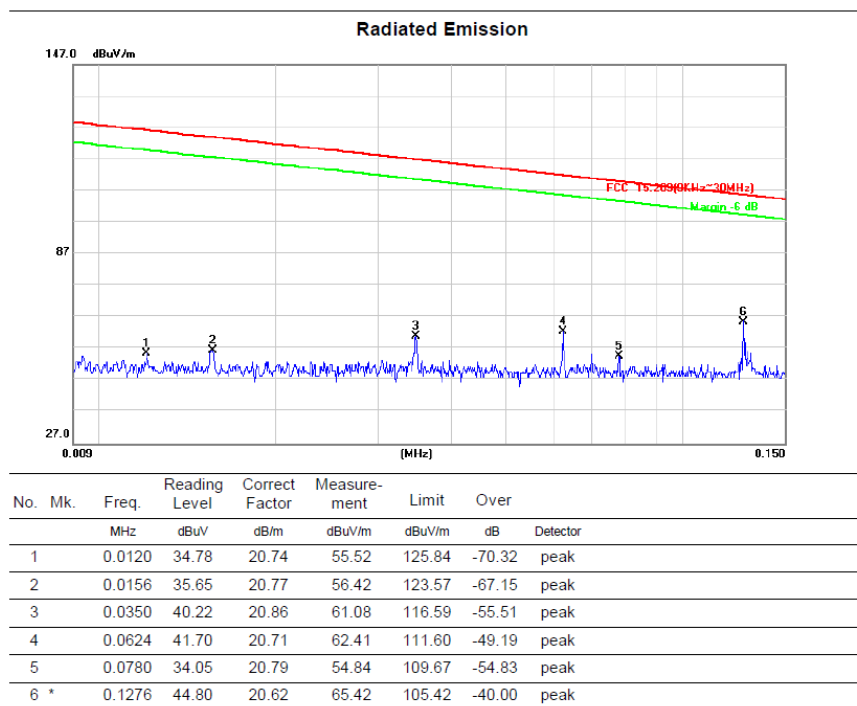


3.2.4 Test Result

The test mode A is found to be the worst case and recorded.

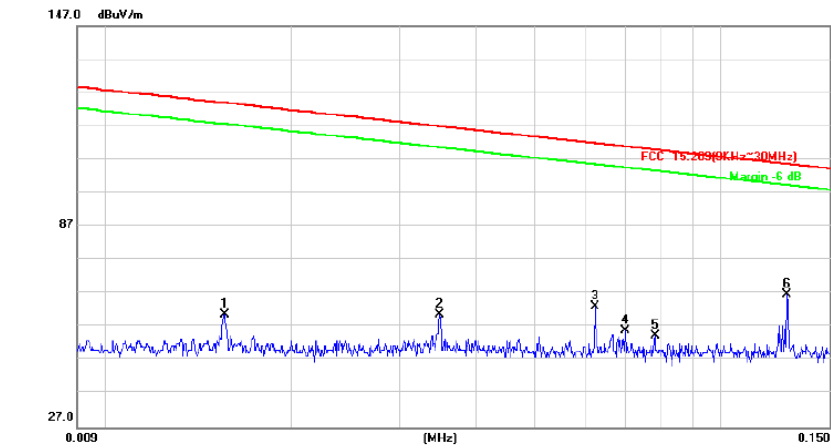
Below 30MHz	Test mode: A
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Parallel



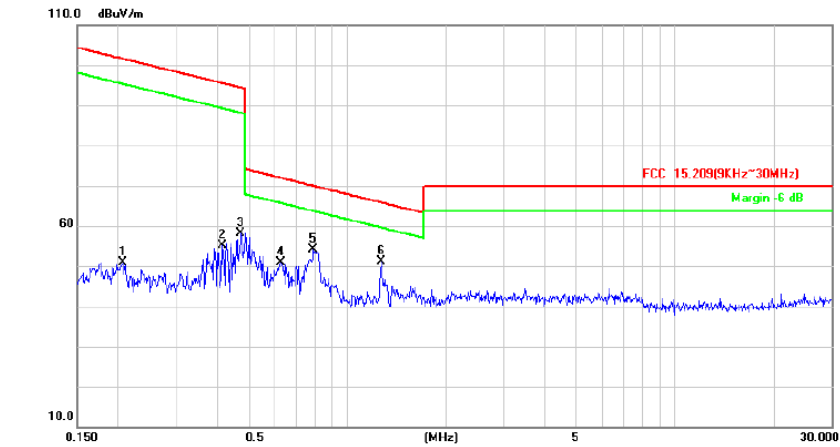
Perpendicular

Radiated Emission



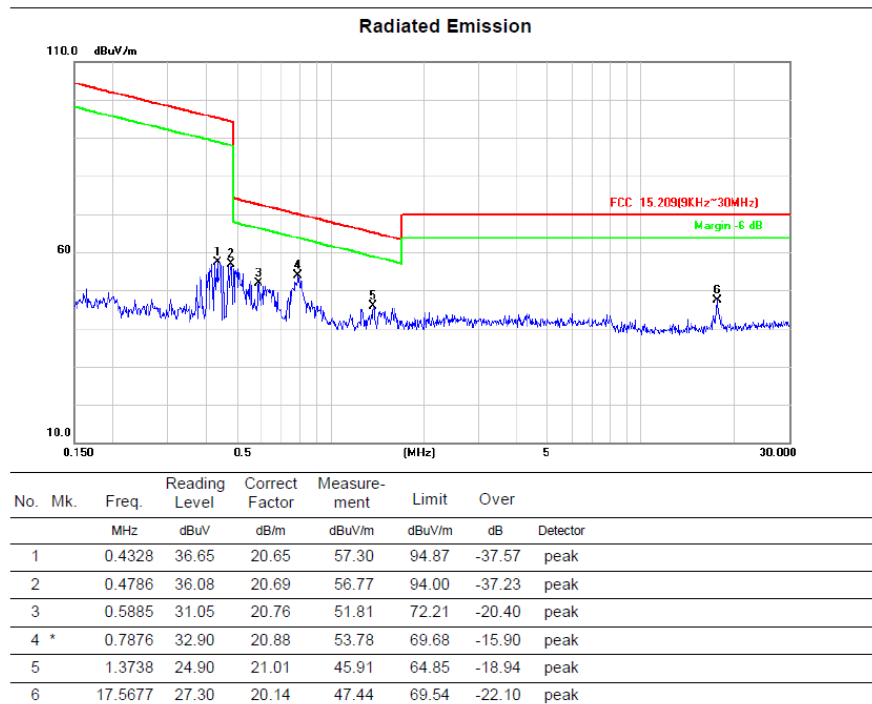
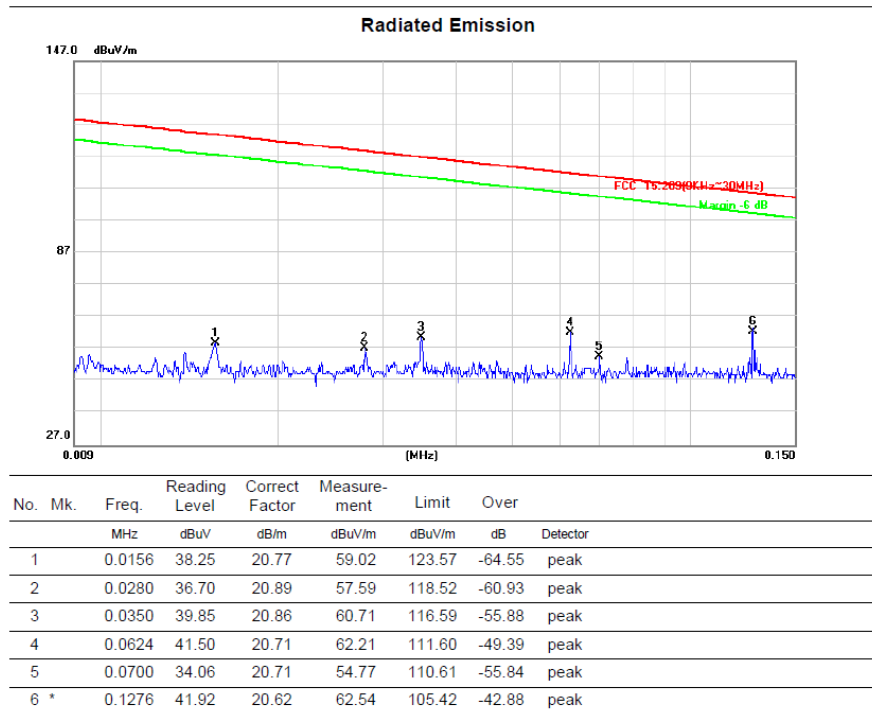
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector
1		0.0156	39.88	20.77	60.65	123.57	-62.92	peak
2		0.0350	39.85	20.86	60.71	116.59	-55.88	peak
3		0.0624	42.46	20.71	63.17	111.60	-48.43	peak
4		0.0700	35.19	20.71	55.90	110.61	-54.71	peak
5		0.0781	33.56	20.79	54.35	109.66	-55.31	peak
6	*	0.1276	46.00	20.62	66.62	105.42	-38.80	peak

Radiated Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	dBuV	Factor	ment	dBuV/m	dB	Detector
1		0.2061	30.34	20.46	50.80	101.28	-50.48	peak
2		0.4148	34.52	20.64	55.16	95.24	-40.08	peak
3		0.4736	37.46	20.69	58.15	94.09	-35.94	peak
4		0.6271	30.19	20.79	50.98	71.66	-20.68	peak
5		0.7876	33.35	20.88	54.23	69.68	-15.45	peak
6	*	1.2688	30.18	21.01	51.19	65.54	-14.35	peak

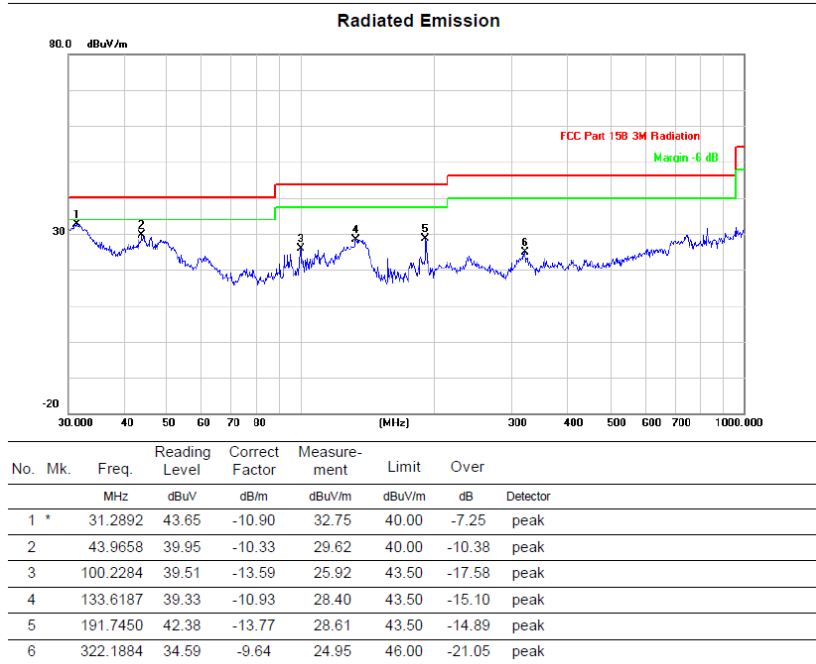
Ground- parallel



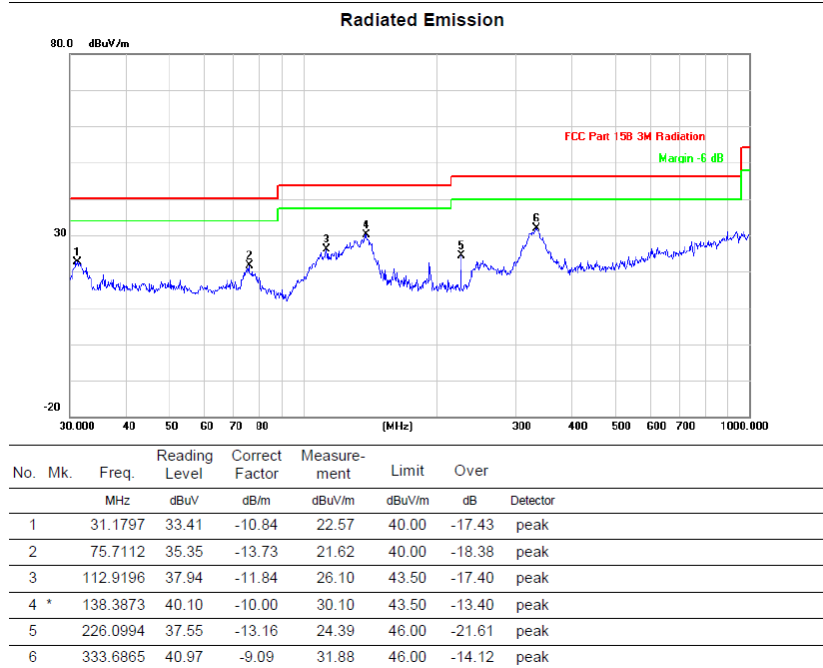
Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

Vertical



Horizontal

**Note:**

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement – Limit

3.3 20dB bandwidth measurement

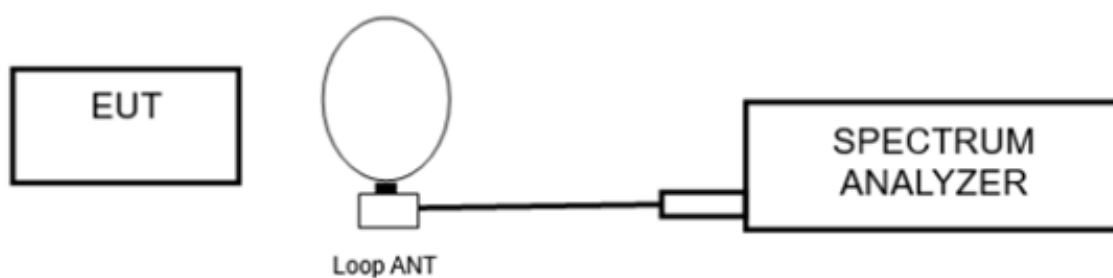
3.3.1 Test standard

FCC Part 15.215(c)

3.3.2 Test Procedure

Test Method	
☐ Conducted Measurement	☒ Radiated Measurement
Environmental Conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

3.3.3 Test Setup

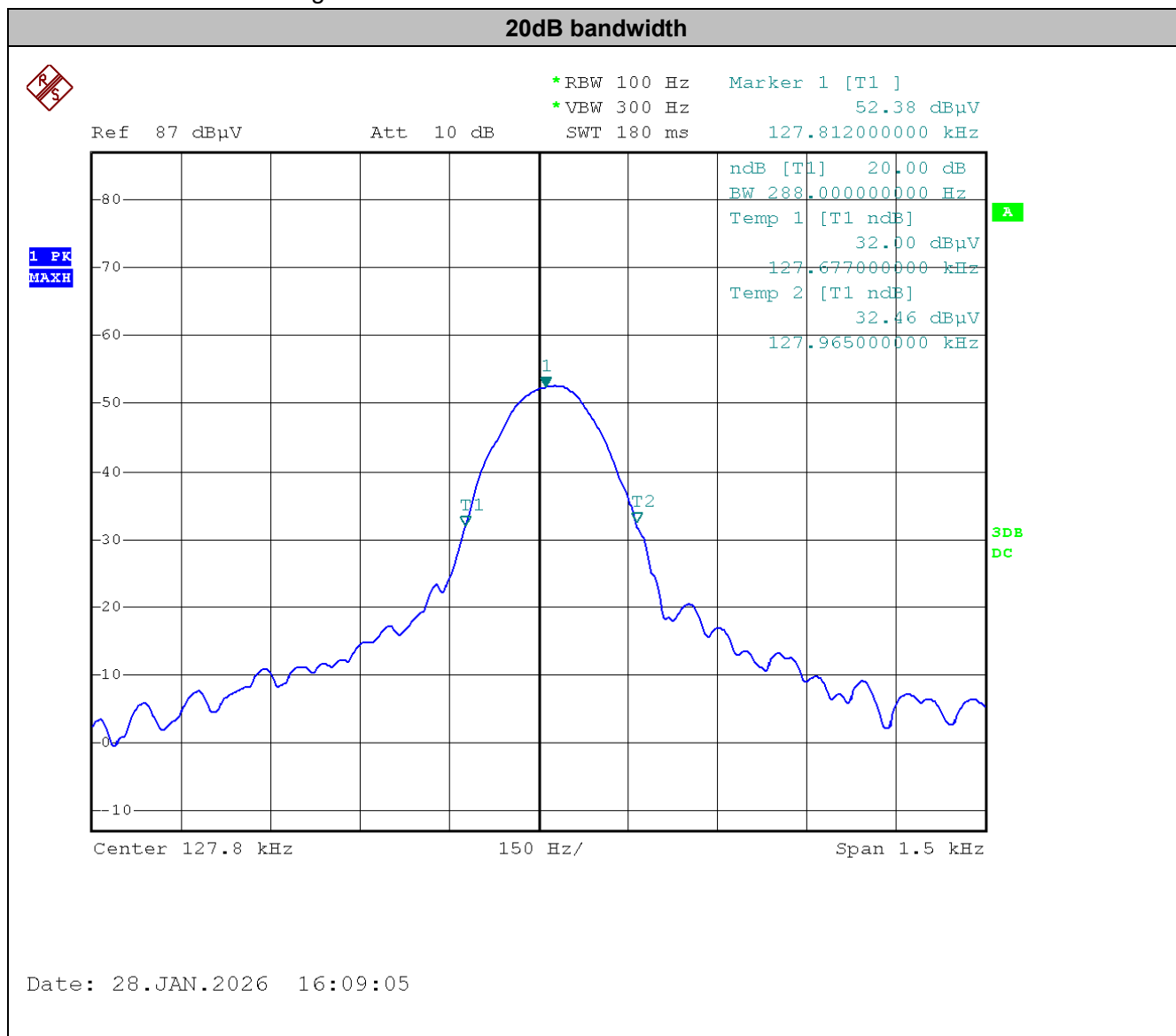


3.3.4 Test results

Test mode	20dB bandwidth (kHz)
A	0.288

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 100 Hz to perform the occupied bandwidth test.

For details refer to following test result.



4. Antenna Requirement

Test Specification

Test standard : Part 15.203

According to the manufacturer declared, the EUT has a coil antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

(END OF REPORT)