



# FCC Test Report

Report No: FCS202508252W01

Issued for

Applicant:	Shantou Chenghai Pengpo Toy Factory
Address:	2nd Floor, No. 19 Changrong Second Lane, Lingting Industrial Zone, Chenghua Street, Chenghai District, Shantou City
Product Name:	Wireless remote control car
Brand Name:	N/A
Model Name:	PB068-1
Series Model:	PB068-2, PB068-3
FCC ID:	2BRNC-PB068-1
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 <a href="http://www.FCS-lab.com">http://www.FCS-lab.com</a>	

## TEST RESULT CERTIFICATION

Applicant's Name .....: Shantou Chenghai Pengpo Toy Factory  
Address .....: 2nd Floor, No. 19 Changrong Second Lane, Lingting Industrial Zone, Chenghua Street, Chenghai District, Shantou City  
Manufacture's Name .....: Shantou Chenghai Pengpo Toy Factory  
Address .....: 2nd Floor, No. 19 Changrong Second Lane, Lingting Industrial Zone, Chenghua Street, Chenghai District, Shantou City

### Product Description

Product Name .....: Wireless remote control car  
Brand Name .....: N/A  
Model Name .....: PB068-1  
Series Model .....: PB068-2, PB068-3  
Test Standards .....: 47 CFR Part 15, Subpart C 15.227  
Test Procedure .....: ANSI C63.10:2013

This device described above has been tested by Flux Compliance Service Laboratory, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test .....:

Date (s) of performance of tests : Aug. 12, 2025 ~ Aug. 19, 2025

Date of Issue .....: Aug. 19, 2025

Test Result .....: Pass

Tested by

*Scott Shen*

(Scott Shen)

Reviewed by

*Duke Qian*

(Duke Qian)

Approved by

*Jack Wang*

(Jack Wang)



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### Revision History

Rev.	Issue Date	Contents
00	Aug. 19, 2025	Initial Issue

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

<b>47 CFR Part 15,Subpart C 15.227</b>			
Standard Section	Test Item	Judgment	Remark
15.203	Antenna Requirements	PASS	--
15.215 (c)	20dB Occupied Bandwidth	PASS	--
15.207	AC Power Line Conducted Emissions	N/A	--(1)
15.227(a)(b) & 15.209	Field Strength of the Fundamental Signal&Spurious Emissions	PASS	--

### NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

## 1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 ISED Number: 25801 CAB ID : CN0097	

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	$\pm 4.13$ dB
2	Conducted Emission (150KHz-30MHz)	$\pm 4.74$ dB
3	All emissions, radiated 9kHz-30MHz	$\pm 3.10$ dB
4	All emissions, radiated 30MHz-1000MHz	$\pm 3.20$ dB
5	Occupied Channel Bandwidth	$\pm 3.5\%$

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless remote control car												
Trade Mark	N/A												
Model Name	PB068-1												
Series Model	PB068-2, PB068-3												
Model Difference	Only the color and model names are different												
Product Description	<p>The EUT is a Wireless remote control car</p> <table border="1"><tr><td>Operation Frequency:</td><td>27 MHz</td></tr><tr><td>Modulation Type:</td><td>ASK</td></tr><tr><td>Radio Technology:</td><td>27 MHz</td></tr><tr><td>Number Of Channel:</td><td>1</td></tr><tr><td>Antenna Designation:</td><td>Please refer to the Note 3.</td></tr><tr><td>Antenna Gain (dBi)</td><td>0 dBi</td></tr></table>	Operation Frequency:	27 MHz	Modulation Type:	ASK	Radio Technology:	27 MHz	Number Of Channel:	1	Antenna Designation:	Please refer to the Note 3.	Antenna Gain (dBi)	0 dBi
Operation Frequency:	27 MHz												
Modulation Type:	ASK												
Radio Technology:	27 MHz												
Number Of Channel:	1												
Antenna Designation:	Please refer to the Note 3.												
Antenna Gain (dBi)	0 dBi												
Channel List	Please refer to the Note 2.												
Power Supply	DC 3V (AA Battery 1.5V*2)												
Battery	DC 3V (AA Battery 1.5V*2)												
Hardware version number	V1.0												
Software version number	V1.0												
Connecting I/O Port(s)	Please refer to the Note 1.												

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2.

Channel List	
Channel	Frequency (MHz)
00	27

3.

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Spring Antenna	N/A	0	27 MHz ANT

Note: The antenna information refere the manufacturer provide report, applicable only to the tested sample identified in the report.

## 2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX (27MHz)	ASK

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.
- (2) The battery is fully-charged during the radited test.

## 2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

RF Function	Mode Or Modulation type	ANT Gain(dBi)	Power Class	Software For Testing
27MHz	ASK	0	0	Button launch

## 2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

### Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
N/A	N/A	N/A	N/A	N/A

### Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
N/A	N/A	N/A	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in «Length» column.
- (2) "YES" is means "with core"; "NO" is means "without core".

## 2.5 EQUIPMENTS LIST

### Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2024.08.28	2025.08.27
Signal Analyzer	R&S	FSV40-N	FCS-E012	2024.08.28	2025.08.27
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2024.08.28	2025.08.27
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2024.08.28	2025.08.27
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2024.08.28	2025.08.27
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2024.08.28	2025.08.27
Pre-Amplifier(0.1M-3GHz)	EMCI	EM330N	FCS-E004	2024.08.28	2025.08.27
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2024.08.28	2025.08.27
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2024.08.28	2025.08.27
Temperature & Humidity	HTC-1	victor	FCS-E005	2024.08.28	2025.08.27
Low frequency cable (9k-1GHz)	Gemma Technology	R03	FCS-E031	2024.08.28	2025.08.27
Low frequency cable (1-18GHz)	Gemma Technology	R04	FCS-E032	2024.08.28	2025.08.27
Low frequency cable (18-40GHz)	Gemma Technology	R05	FCS-E033	2024.08.28	2025.08.27
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

### RF Connected Test

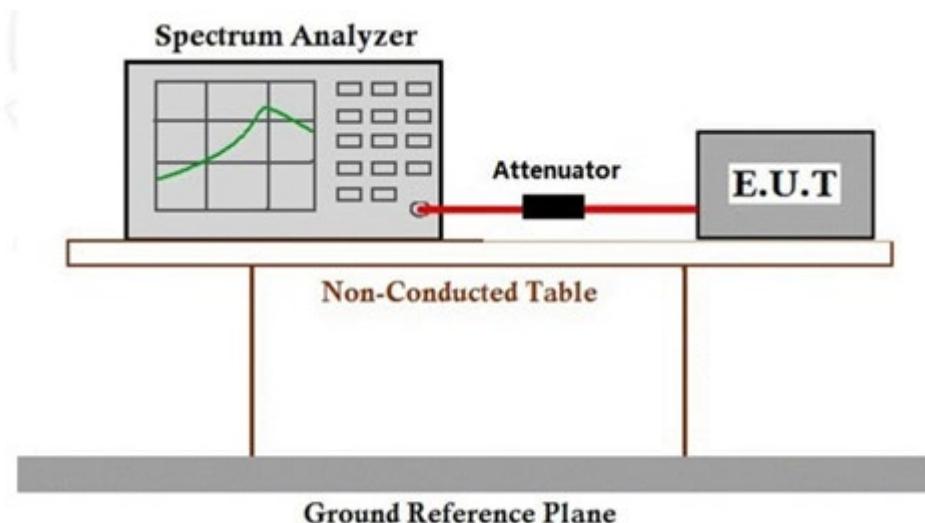
Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2024.08.28	2025.08.27
Spectrum Analyzer	Agilent	E4447A	MY50180039	2024.08.28	2025.08.27
Spectrum Analyzer	R&S	FSV-40	101499	2024.08.28	2025.08.27
Power Sensor	Agilent	UX2021XA	FCS-E021	2024.08.28	2025.08.27
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

### 3. 20DB OCCUPIED BANDWIDTH

#### 3.1 TEST PROCEDURE

1. Set RBW = 300 Hz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

#### 3.2 Test Setup Diagram



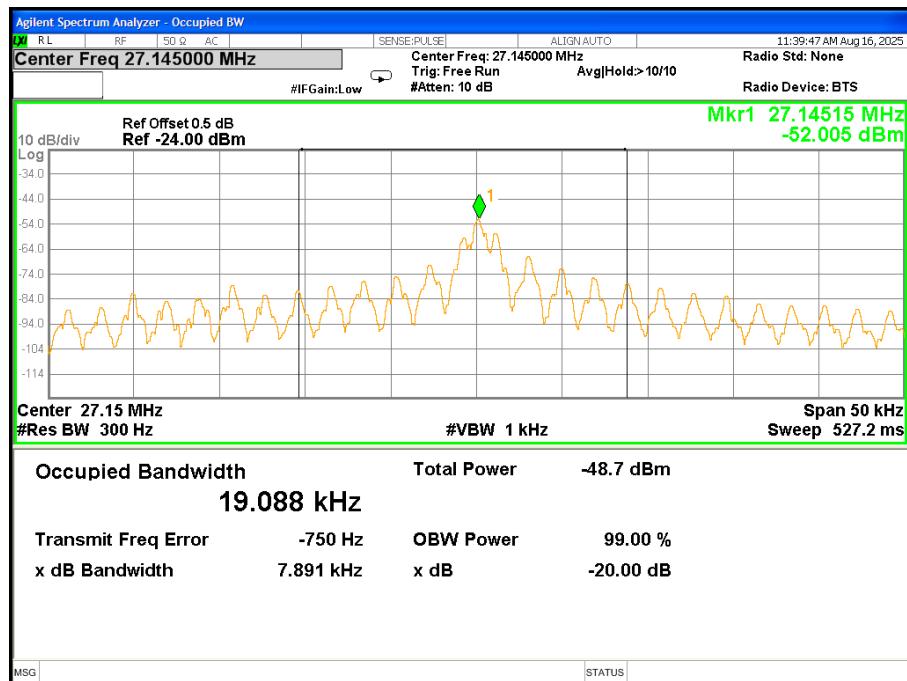
#### 3.3 Measurement procedure and data

cable loss=0.9

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:  
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel  
 $RBW \geq 1\%$  of the 20 dB bandwidth,  $VBW \geq RBW$   
Sweep= auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

### 3.4 TEST RESULTS

Freq. (MHz)	20 dB bandwidth Result (kHz)	Conclusion
27	7.891	PASS



## 4. RADIATED EMISSION MEASUREMENT

### 4.1 LIMIT

The field strength of any emission within this band shall not exceed 10,000 microvolts/meter at 3 meters.

#### LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

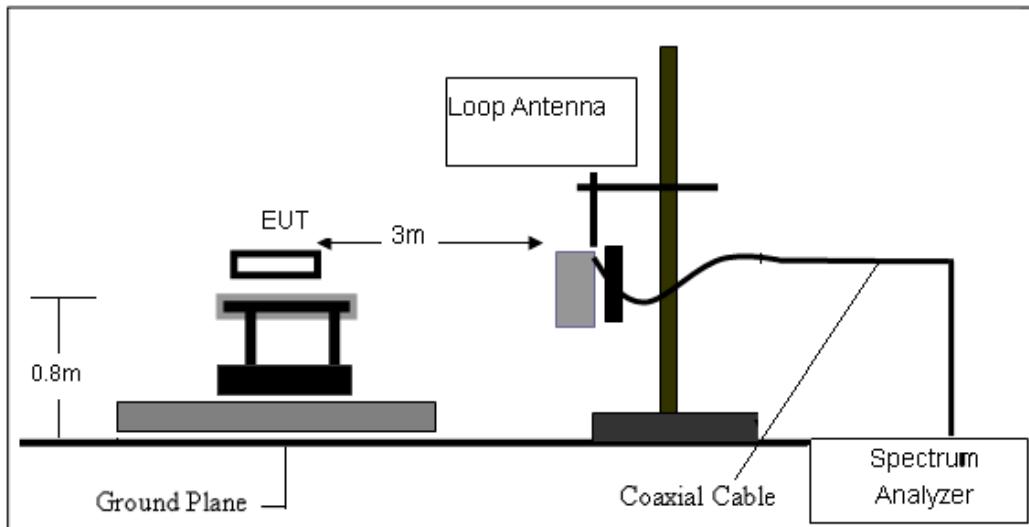
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Receiver setup:

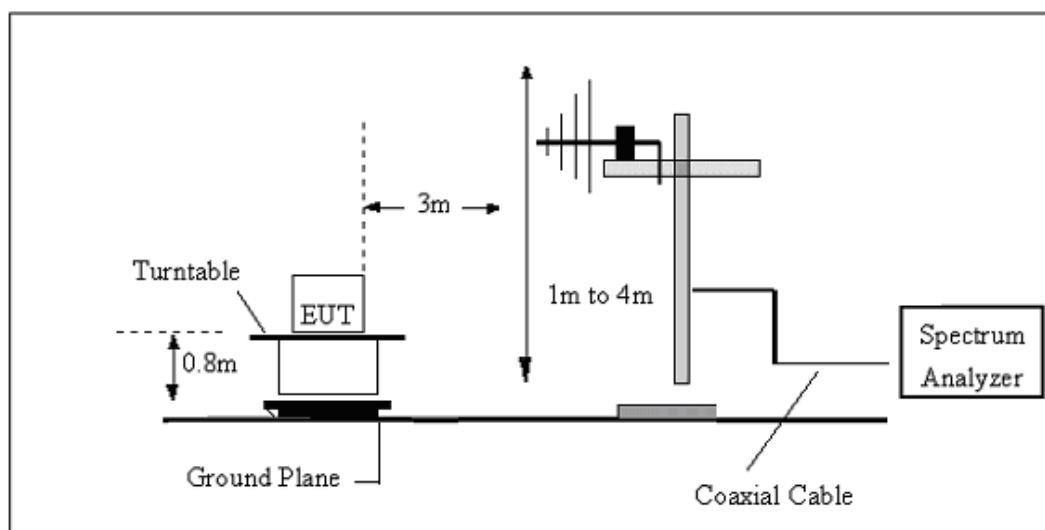
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

## 4.2 TEST SETUP

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



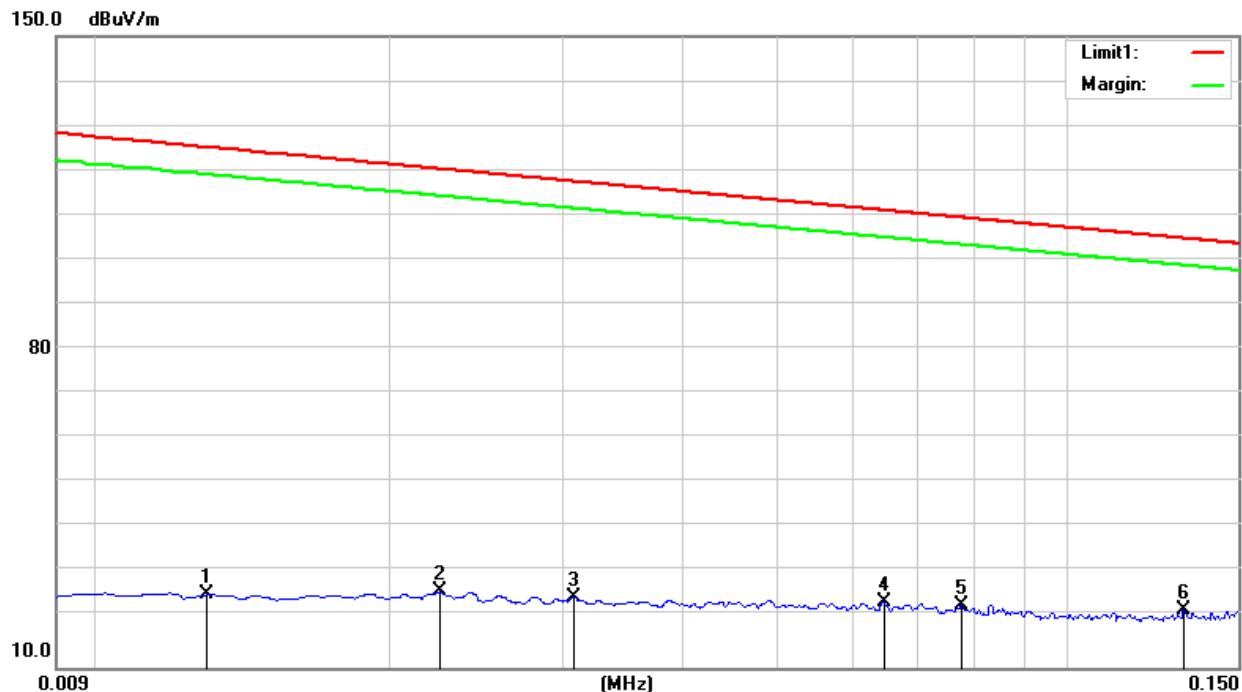
### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



### 4.3 TEST RESULTS

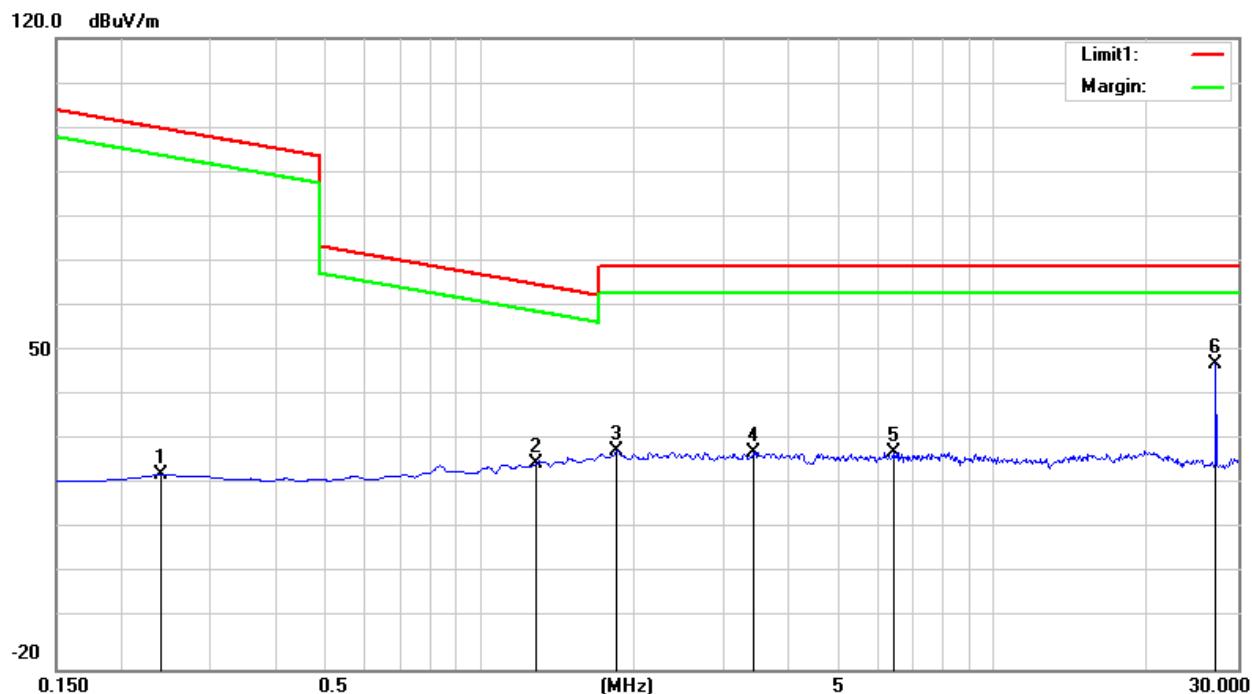
Mode1 :

9KHz-150KHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0130	6.56	19.59	26.15	125.33	-99.18	peak
2	0.0224	6.77	20.05	26.82	120.60	-93.78	peak
3	0.0310	5.78	19.88	25.66	117.78	-92.12	peak
4	0.0646	5.37	19.09	24.46	111.40	-86.94	peak
5	0.0777	5.23	18.67	23.90	109.80	-85.90	peak
6	0.1320	5.28	17.54	22.82	105.19	-82.37	peak

## 150KHz-30MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.2396	3.46	19.83	23.29	100.01	-76.72	peak
2	1.2892	5.29	20.26	25.55	65.40	-39.85	peak
3 *	1.8515	8.18	20.37	28.55	69.50	-40.95	peak
4	3.4335	7.80	20.23	28.03	69.50	-41.47	peak
5	6.4185	7.72	20.41	28.13	69.50	-41.37	peak

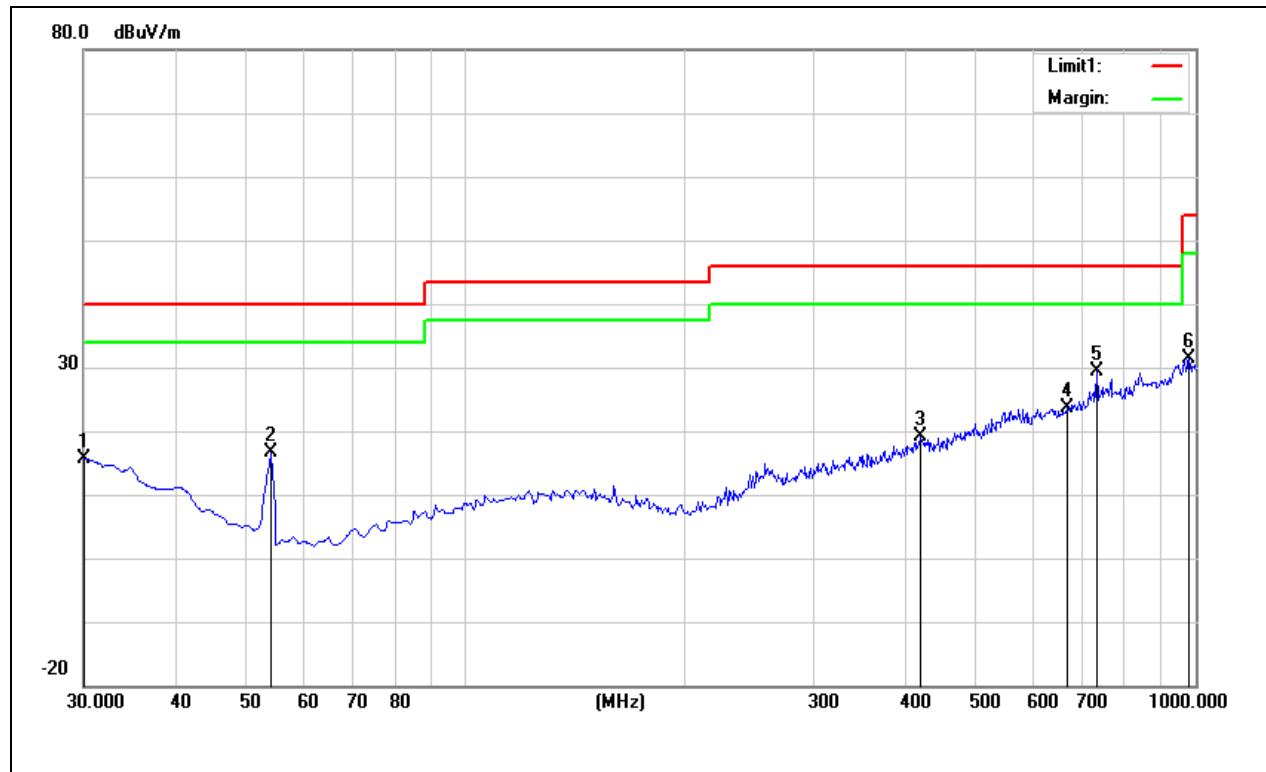
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Remark
6	27.1452	27.27	20.43	47.70	80.00	-21.80	Peak	Fundamental Wave

## Note:

- (1) Pre-scan in the all of mode, the worst case in of was recorded.
- (2) The peak value is less than AV limit, so AV measure is not need.

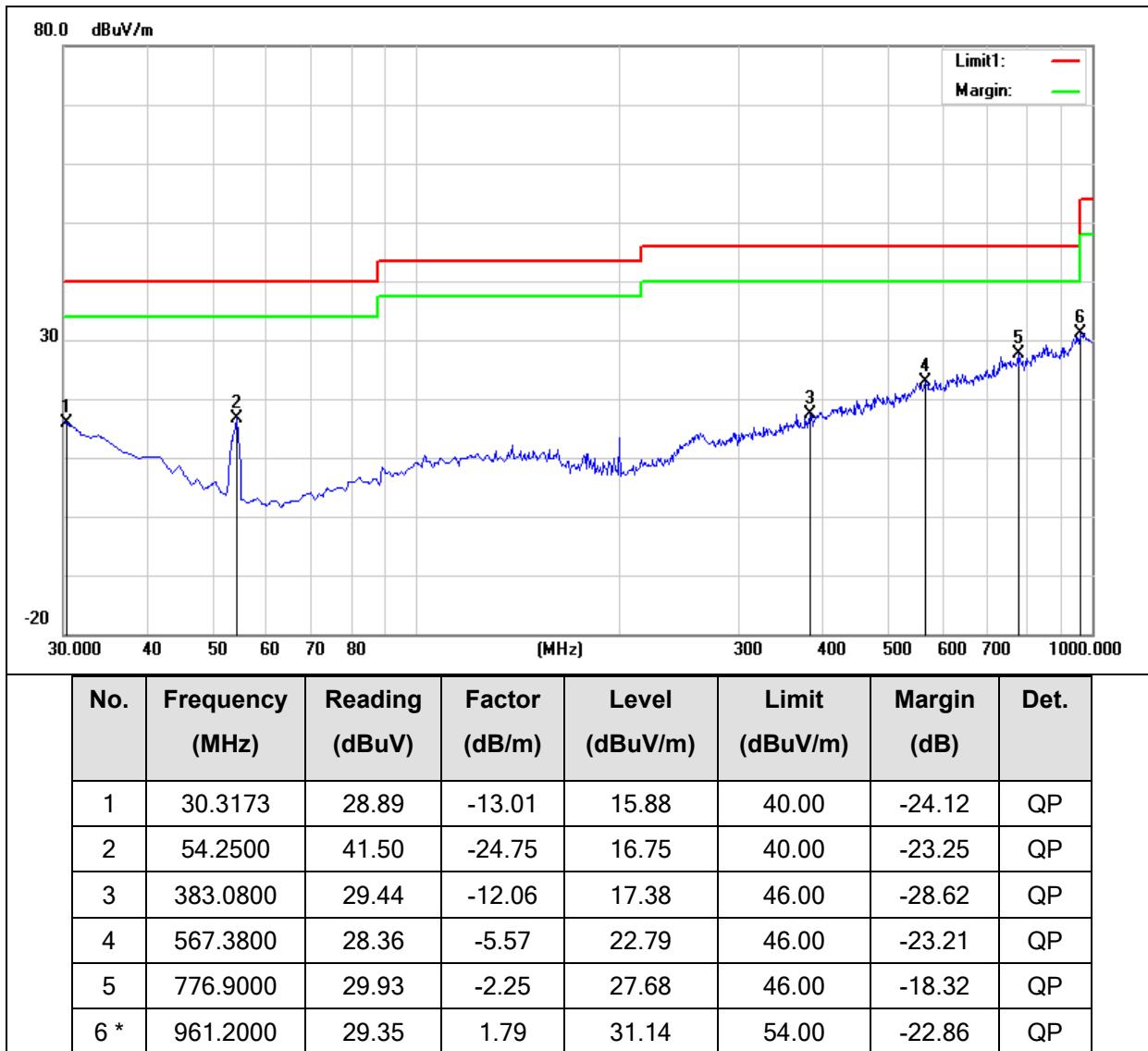
## 30MHz-1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	
1	30.0000	28.59	-12.85	15.74	40.00	-24.26	QP	
2	54.2500	41.42	-24.75	16.67	40.00	-23.33	QP	
3	420.9100	29.11	-10.09	19.02	46.00	-26.98	QP	
4	667.2900	28.15	-4.64	23.51	46.00	-22.49	QP	
5	733.2500	31.78	-2.35	29.43	46.00	-16.57	QP	
6 *	980.6000	28.82	2.63	31.45	54.00	-22.55	QP	

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



#### Remarks:

1. Emission Level = Reading + Factor;
2. Factor = Antenna Factor + Cable Loss – Pre-amplifier;
3. Margin = Emission Level - Limit.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 5. ANTENNA REQUIREMENT

### 5.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 5.2 EUT ANTENNA

The antennas used for this product are Spring Antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 0 dBi.

※※※※※END OF THE REPORT※※※※※