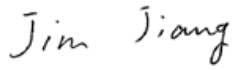
CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
Tel: +86-755-27521059 Fax: +86-755-27521011 http://www.sz-ctc.org.cn

TEST REPORT

Report No. ·····:	**CTC20211677E08**
FCC ID……..:	**2AY37-S-13**
Applicant·····:	**Shenzhen Times Innovation Technology Co., Ltd.**
Address·····:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen China
Manufacturer·····:	Shenzhen Times Innovation Technology Co., Ltd.
Address·····:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen China
Product Name·····:	**Car Bluetooth Player**
Trade Mark·····:	Baseus
Model/Type reference·····:	S-13
Listed Model(s) ·····:	S-09, S-09A, S-13, S-13A, S-16, S-16A
Standard·····:	**FCC CFR Title 47 Part 15 Subpart C Section 15.239**
Date of receipt of test sample…:	Oct. 15, 2021
Date of testing……..:	Oct. 15, 2021 to Dec. 03, 2021
Date of issue……...:	Dec. 03, 2021
Result……:	**PASS**

Compiled by: (Printed name+signature)	Jim Jiang	
Supervised by: (Printed name+signature)	Miller Ma	
Approved by: (Printed name+signature)	Totti Zhao	

Testing Laboratory Name……:	**CTC Laboratories, Inc.**
Address……:	1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Table of Contents Page

1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.239: Operation in the band 88-108 MHz.
ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Date of issue	Description
01	Dec. 03, 2021	Original

1.3. Test Description

FCC Part 15 Subpart C (15.239)			
Test Item	**Standard Section**	**Result**	**Test Engineer**
Antenna Requirement	15.203	Pass	Jim Jiang
Conducted Emission	15.207	N/A	N/A
Transmitter Radiated Spurious	15.209	Pass	Jim Jiang
Field Strength of Fundamental Emissions	15.239	Pass	Jim Jiang
20dB Bandwidth	15.239	Pass	Jim Jiang

Note:
1. The measurement uncertainty is not included in the test result.
2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

1.4. Test Facility

CTC Laboratories, Inc.
Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation
The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5365
CTC Laboratories, Inc. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation. Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 4340.01
CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements fo r the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)
CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)
CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained inour files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

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 TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the CTC Laboratories, Inc. 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.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.42 dB	(1)
Transmitter power Radiated	2.14 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.20 dB	(1)
Radiated Emissions 30~1000MHz	4.70 dB	(1)
Radiated Emissions 1~18GHz	5.00 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)
Occupied Bandwidth	---------	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C~27°C
Relative Humidity:	40%~60%
Atmospheric Pressure:	101kPa

2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shenzhen Times Innovation Technology Co., Ltd.
Address:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen China
Manufacturer:	Shenzhen Times Innovation Technology Co., Ltd.
Address:	5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen China
Factory:	Shenzhen Lohee Technology Co., Ltd.
Address:	6F, Building B1, Anle Industrial Zone, No. 172, Hangcheng Avenue, Xixiang Street, Baoan District, Shenzhen China

2.2. General Description of EUT

Product Name:	Car Bluetooth Player
Trade Mark:	Baseus
Model/Type reference:	S-13
Listed Model(s):	S-09, S-09A, S-13, S-13A, S-16, S-16A
Model Difference:	All these models are identical in the same PCB, layout and electrical circuit. The difference is the model. Model S-13 was selected as the EUT in this report.
Power supply:	Input: DC12-24V 3A Total Output: 36W USB1 Output: DC5V 3A, DC9V 3A, DC12V 2.4A Type-C Output: DC5V 3A, DC9V 3A, DC12V 2.4A USB2 Output: DC5V 1.5A
Hardware version:	S-13-MAIN_V2.0
Software version:	V2.3
FM Transmitter	
Modulation:	ASK
Operation frequency:	88.1MHz~107.9MHz
Antenna type:	Metal Antenna
Antenna gain:	2dBi

2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
/	/	/	/
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/
Test Software Information			
Name	Version	/	/
/	/	/	/

2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. FM, 20 channels are provided to the EUT. Channels 01/11/20 were selected for testing.
Operation Frequency List:

Channels	Frequency (MHz)	Channels	Frequency (MHz)	Channels	Frequency (MHz)
01	88.1	09	90.7	17	107.3
02	88.3	10	90.9	18	107.5
03	88.5	11	106.1	19	107.7
04	88.7	12	106.3	20	107.9
05	88.9	13	106.5		
06	90.1	14	106.7		
07	90.3	15	106.9		
08	90.5	16	107.1		

Test mode

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

2.5. Measurement Instruments List

Tonscend JS0806-2 Test system					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
2	Spectrum Analyzer	Rohde & Schwarz	FUV40-N	101331	Mar. 15, 2022
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 25, 2021
4	Signal Generator	Agilent	E8257D	MY46521908	Dec. 25, 2021
5	Power Sensor	Agilent	U2021XA	MY5365004	Dec. 25, 2021
6	Power Sensor	Agilent	U2021XA	MY5365006	Dec. 25, 2021
7	Simultaneous Sampling DAQ	Agilent	U2531A	TW54493510	Dec. 25, 2021
8	Climate Chamber	TABAI	PR-4G	A8708055	Dec. 25, 2021
9	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	116410	Dec. 25, 2021
10	Climate Chamber	ESPEC	MT3065	/	Dec. 25, 2021
11	300328 v2.2.2 test system	TONSCEND	v2.6	/	/

Radiated Emission and Transmitter spurious emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	Rohde & Schwarz	ESCI	100658	Dec. 25, 2021
2	High pass filter	micro-tranics	HPM50111	142	Dec. 25, 2021
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec. 25, 2021
4	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec. 25, 2021
5	Loop Antenna	LAPLAC	RF300	9138	Dec. 25, 2021
6	Spectrum Analyzer	Rohde & Schwarz	FSU26	100105	Dec. 25, 2021
7	Horn Antenna	Schwarzbeck	BBHA 9120D	647	Dec. 25, 2021
8	Pre-Amplifier	HP	8447D	1937A03050	Dec. 25, 2021
9	Pre-Amplifier	EMCI	EMC051835	980075	Dec. 25, 2021
10	Antenna Mast	UC	UC3000	N/A	N/A
11	Turn Table	UC	UC3000	N/A	N/A
12	Cable Below 1GHz	Schwarzbeck	AK9515E	33155	Dec. 25, 2021
13	Cable Above 1GHz	Hubersuhner	SUCOFLEX102	DA1580	Dec. 25, 2021
14	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 25, 2021
15	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	Dec. 25, 2021
16	RF Connection Cable	Chengdu E-Microwave	---	---	Dec. 25, 2021

17	High pass filter	Compliance Direction systems	BSU-6	34202	Dec. 25, 2021
18	Attenuator	Chengdu E-Microwave	EMCAXX-10RNZ-3	---	Dec. 25, 2021
19	High and low temperature box	ESPEC	MT3065	12114019	Dec. 25, 2021

Conducted Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101112	Dec. 25, 2021
2	LISN	R&S	ENV216	101113	Dec. 25, 2021
3	EMI Test Receiver	R&S	ESCI	100658	Dec. 25, 2021

Note:
1. The Cal. Interval was one year.
2. The cable loss has calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Conducted Emission

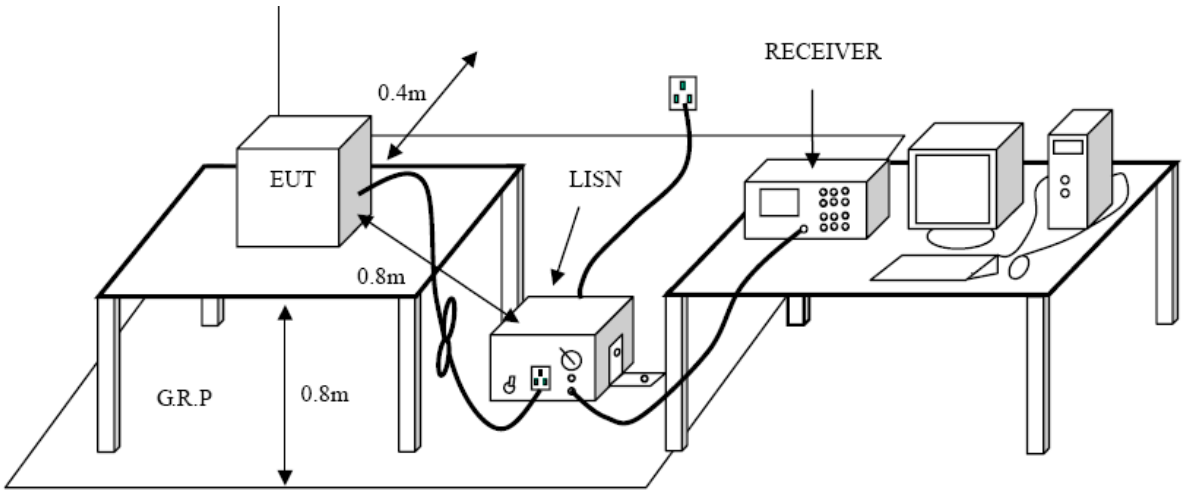
Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
7. During the above scans, the emissions were maximized by cable manipulation.

Test Mode

Please refer to the clause 2.4.

Test Results

Not applicable.

3.2. Radiated Emission

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency (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
960~1000	500	3

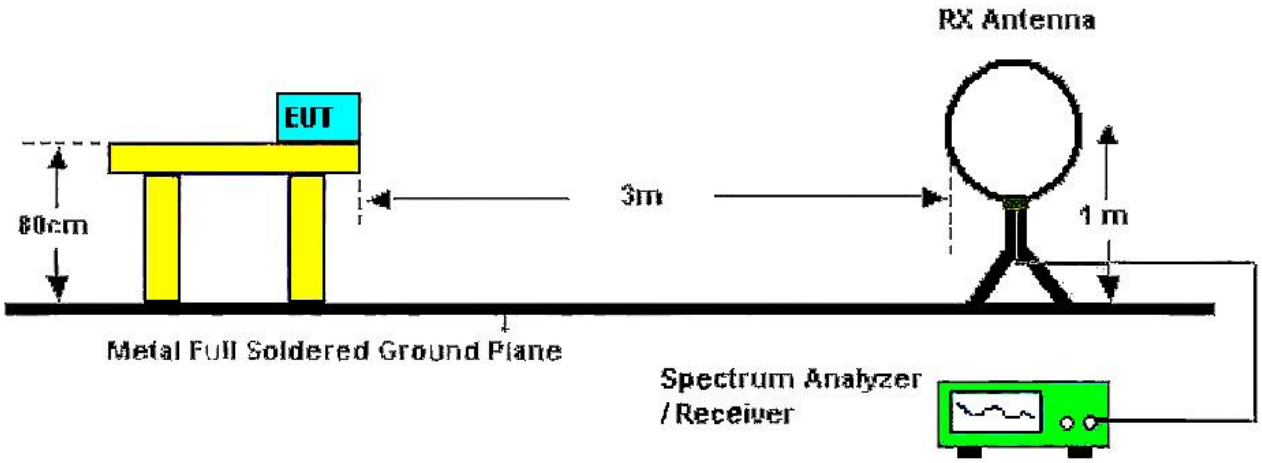
Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

Note:

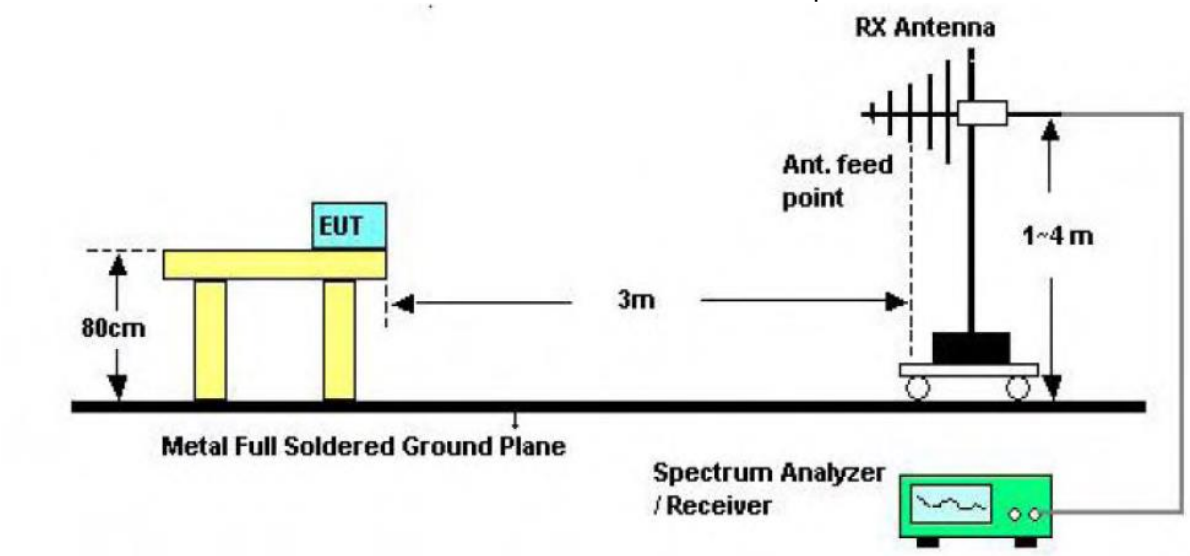
(1) The tighter limit applies at the band edges.

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

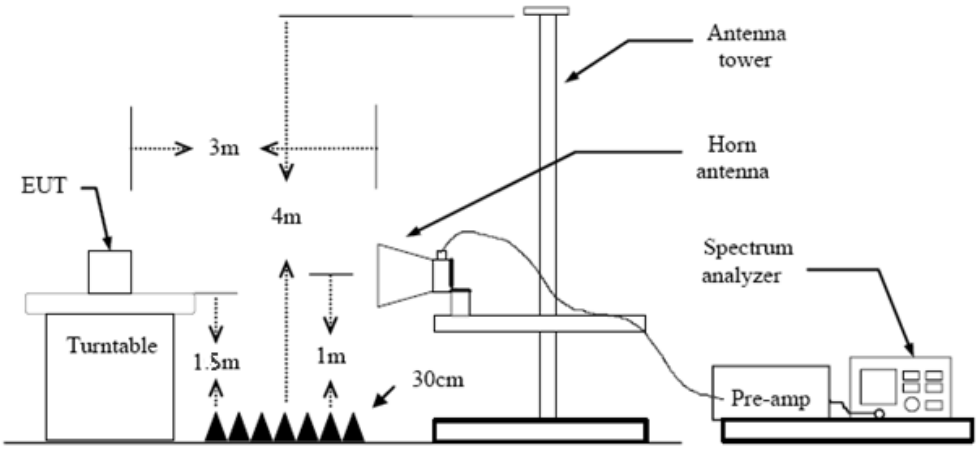
Test Configuration



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings

(1) Span shall wide enough to fully capture the emission being measured;
(2) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
(3) From 1 GHz to 10th harmonic:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW=10Hz with Peak Detector for Average Value.

Test Mode

Please refer to the clause 2.4.

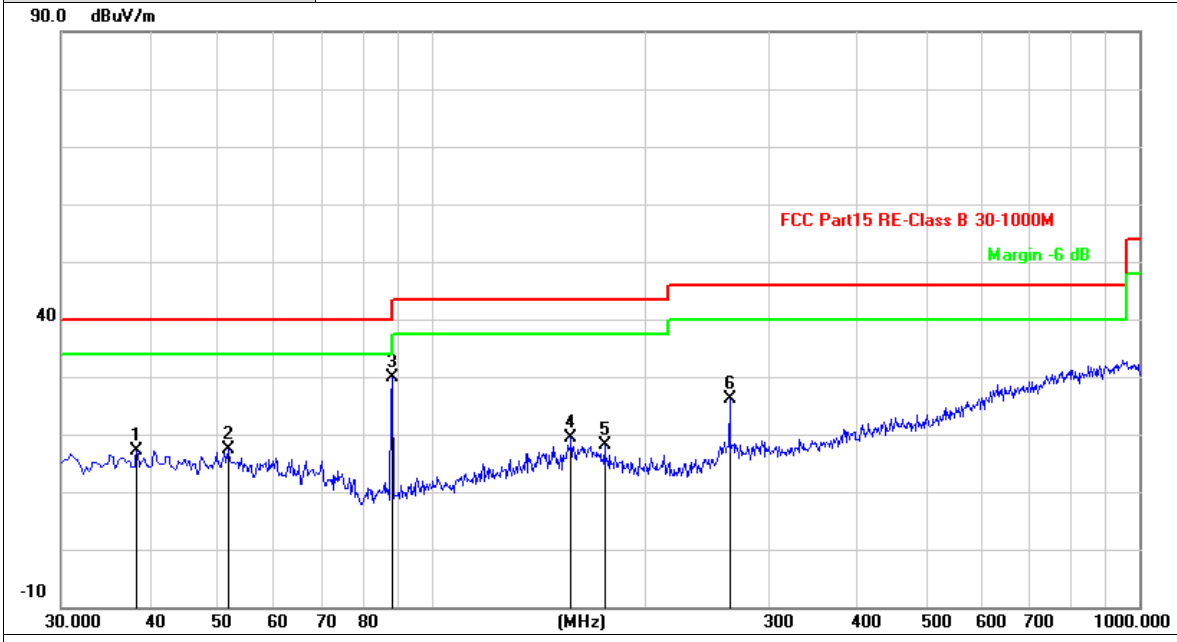
Test Result

9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz-1GHz

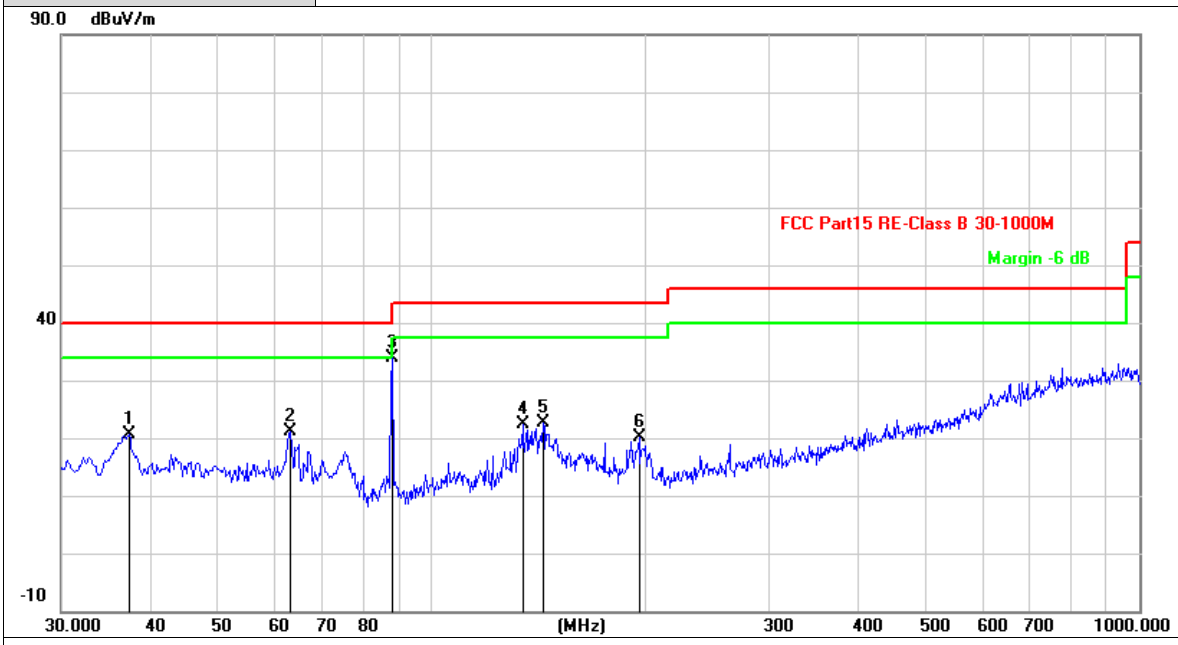
Ant. Pol.	Horizontal
Test Mode:	TX FM Mode 88.1MHz
Remark:	Only worse case is reported



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.4065	-14.28	31.51	17.23	40.00	-22.77	QP
2	51.6632	-14.80	32.11	17.31	40.00	-22.69	QP
3	88.2000	-19.66	49.60	29.94	43.50	-13.56	QP
4	158.0399	-14.35	33.70	19.35	43.50	-24.15	QP
5	176.1465	-15.52	33.62	18.10	43.50	-25.40	QP
6	264.4166	-15.62	41.67	26.05	46.00	-19.95	QP

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX FM Mode 88.1MHz
Remark:	Only worse case is reported

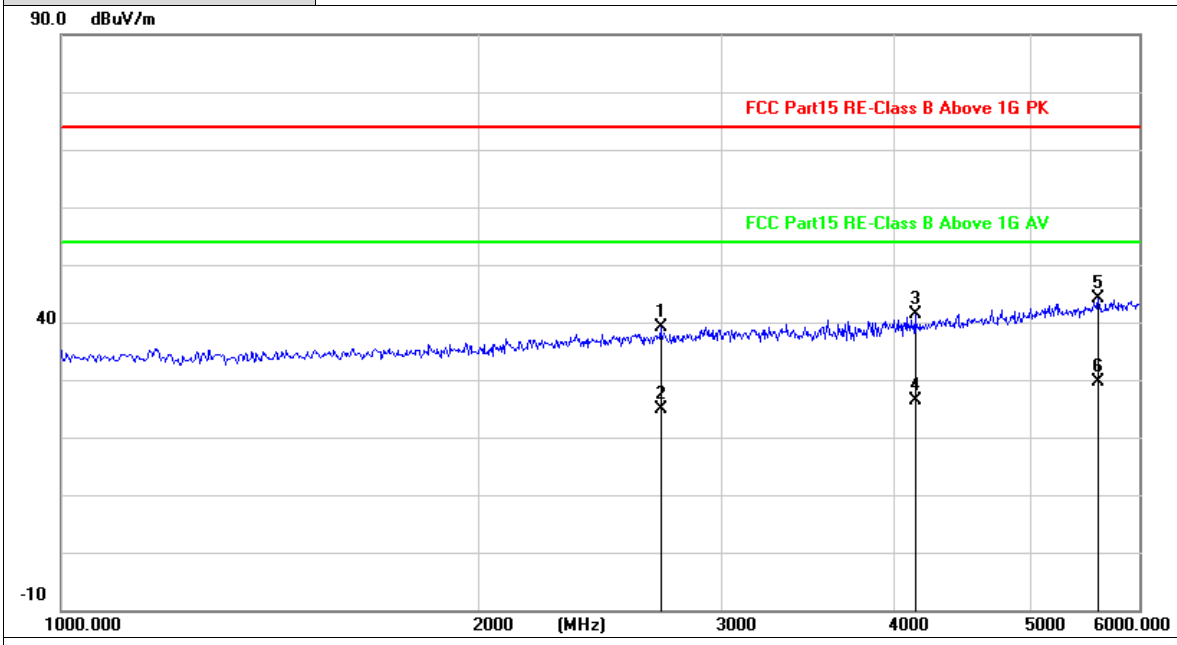


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.4365	-14.41	35.14	20.73	40.00	-19.27	QP
2	63.3033	-16.30	37.36	21.06	40.00	-18.94	QP
3	88.2000	-19.66	53.60	33.94	43.50	-9.56	QP
4	134.7600	-15.44	37.73	22.29	43.50	-21.21	QP
5	144.1366	-14.85	37.59	22.74	43.50	-20.76	QP
6	196.8400	-17.56	37.57	20.01	43.50	-23.49	QP

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

Above 1GHz

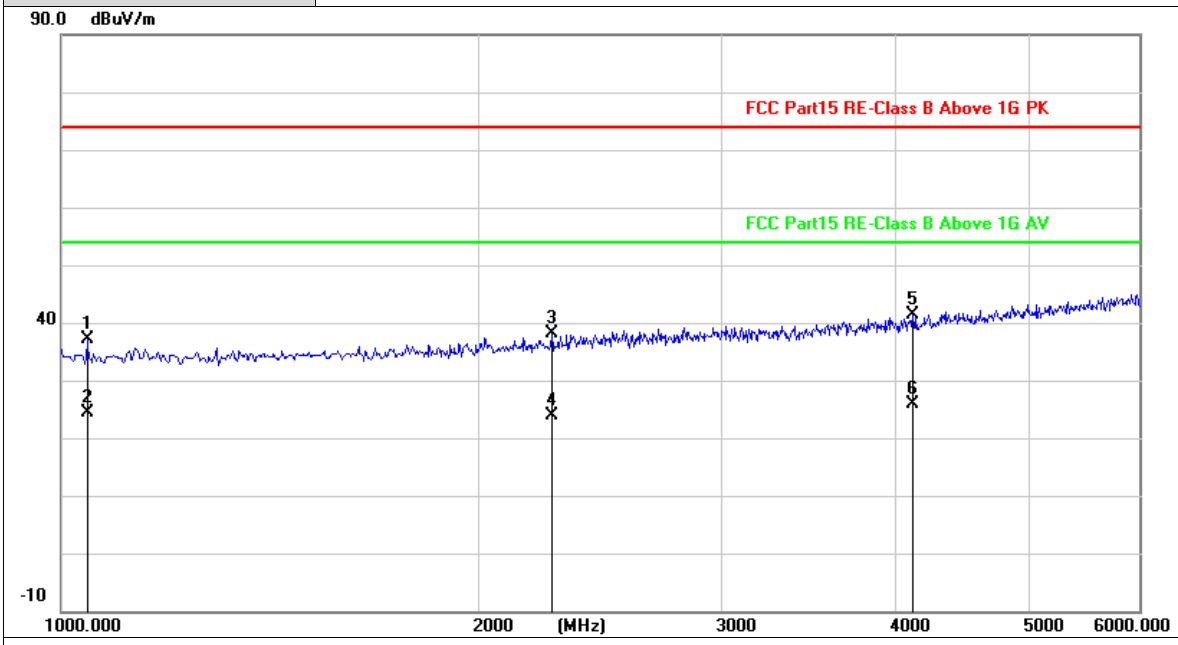
Ant. Pol.	Horizontal
Test Mode:	TX FM Mode 107.9MHz
Remark:	Only worse case is reported



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2710.000	-2.36	41.57	39.21	74.00	-34.79	peak
2	2710.000	-2.36	27.16	24.80	54.00	-29.20	AVG
3	4140.000	1.36	39.94	41.30	74.00	-32.70	peak
4	4140.000	1.36	24.94	26.30	54.00	-27.70	AVG
5	5610.000	5.03	38.98	44.01	74.00	-29.99	peak
6	5610.000	5.03	24.67	29.70	54.00	-24.30	AVG

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX FM Mode 107.9MHz
Remark:	Only worse case is reported



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1045.000	-9.80	46.93	37.13	74.00	-36.87	peak
2	1045.000	-9.80	34.20	24.40	54.00	-29.60	AVG
3	2260.000	-4.05	42.08	38.03	74.00	-35.97	peak
4	2260.000	-4.05	27.95	23.90	54.00	-30.10	AVG
5	4125.000	1.32	40.15	41.47	74.00	-32.53	peak
6	4125.000	1.32	24.68	26.00	54.00	-28.00	AVG

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

Field Strength of Fundamental Emissions

TX FM Mode 88.1MHz					
Frequency (MHz)	Antenna Polarization (Horizontal/Vertical)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
88.0879	Horizontal	51.68	68.00	-16.32	Peak
88.0879	Horizontal	35.30	48.00	-12.70	Average
88.1119	Vertical	49.97	68.00	-18.03	Peak
88.1119	Vertical	34.65	48.00	-13.35	Average

TX FM Mode 106.1MHz					
Frequency (MHz)	Antenna Polarization (Horizontal/Vertical)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
106.0960	Horizontal	50.44	68.00	-17.56	Peak
106.0960	Horizontal	35.02	48.00	-12.98	Average
106.0879	Vertical	53.59	68.00	-14.41	Peak
106.0879	Vertical	37.11	48.00	-10.89	Average

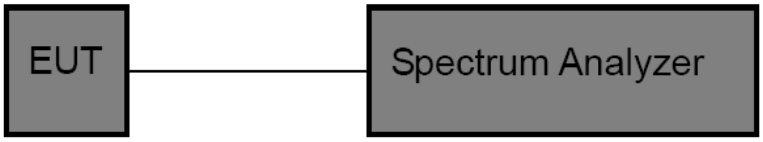
TX FM Mode 107.9MHz					
Frequency (MHz)	Antenna Polarization (Horizontal/Vertical)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
107.8960	Horizontal	51.41	68.00	-16.59	Peak
107.8960	Horizontal	35.51	48.00	-12.49	Average
107.9120	Vertical	51.64	68.00	-16.36	Peak
107.9120	Vertical	35.25	48.00	-12.75	Average

3.3. 20dB Bandwidth

Limit

N/A

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. 20dB bandwidth Spectrum Setting:
   (1) Set the video bandwidth (VBW) ≥ 3 RBW.
   (2) Detector = Peak.
   (3) Trace mode = Max hold.
   (4) Sweep = Auto couple.

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

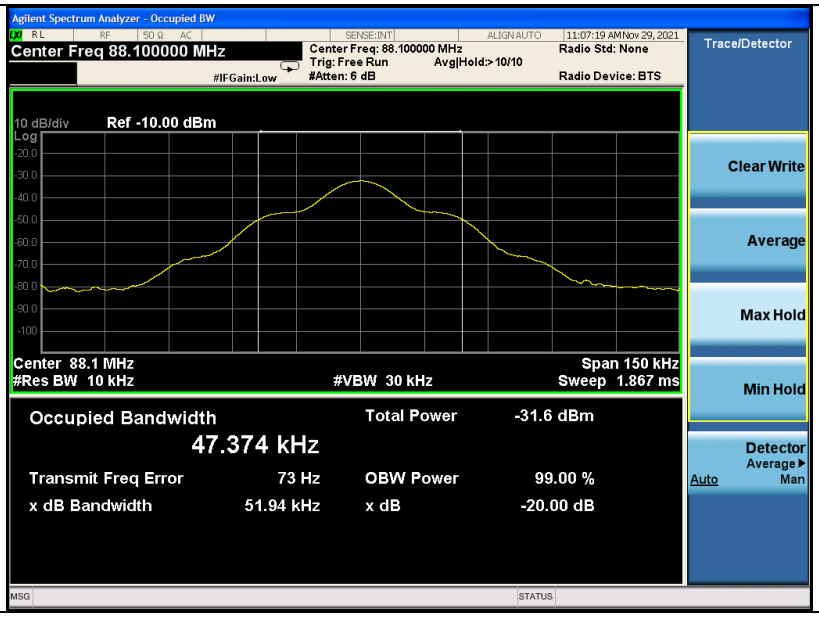
Test Mode

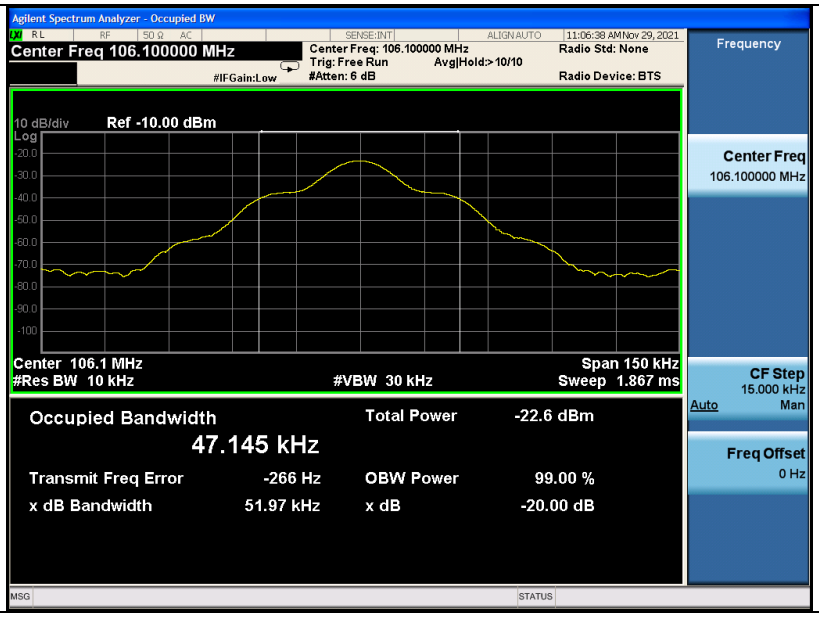
Please refer to the clause 2.4.

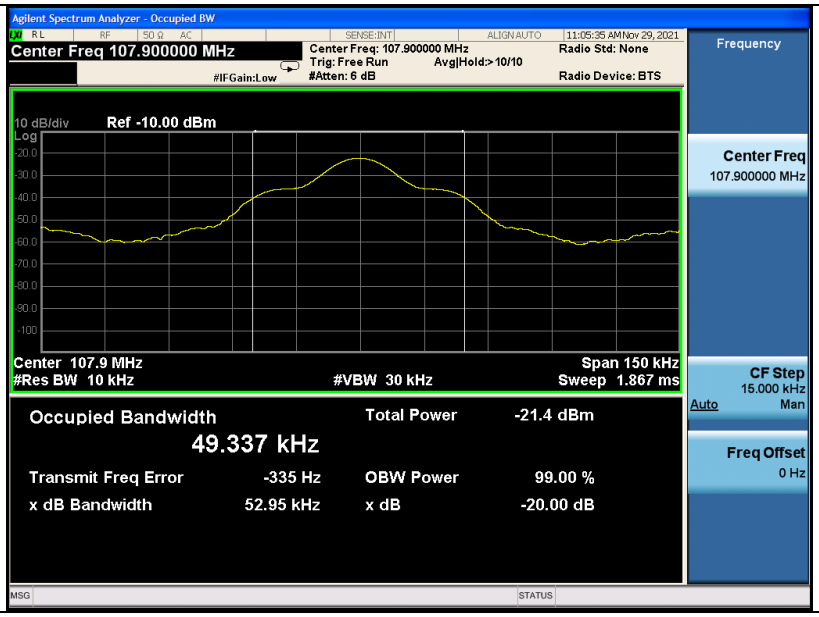
Test Results

Mode	Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)
TX	88.1	51.94	200
	106.1	51.97	200
	107.9	52.95	200

s


Agilent Spectrum Analyzer - Occupied BW
Center Freq 88.100000 MHz
Center Freq: 88.100000 MHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 6 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
11:07:19 AM Nov 29, 2021
Trace/Detector
10 dB/div
Ref -10.00 dBm
Log
Clear Write
Average
Max Hold
Min Hold
Center 88.1 MHz
#Res BW 10 kHz
#VBW 30 kHz
Span 150 kHz
Sweep 1.867 ms
Occupied Bandwidth
47.374 kHz
Total Power -31.6 dBm
Transmit Freq Error 73 Hz
OBW Power 99.00 %
x dB Bandwidth 51.94 kHz
x dB -20.00 dB
Detector
Average
Auto
Man
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
Center Freq 106.100000 MHz
Center Freq: 106.100000 MHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 6 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
11:06:38 AM Nov 29, 2021
Frequency
10 dB/div
Ref -10.00 dBm
Log
Center Freq
106.100000 MHz
CF Step
15.000 kHz
Auto
Man
Freq Offset
0 Hz
Center 106.1 MHz
#Res BW 10 kHz
#VBW 30 kHz
Span 150 kHz
Sweep 1.867 ms
Occupied Bandwidth
47.145 kHz
Total Power -22.6 dBm
Transmit Freq Error -266 Hz
OBW Power 99.00 %
x dB Bandwidth 51.97 kHz
x dB -20.00 dB
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
Center Freq 107.900000 MHz
Center Freq: 107.900000 MHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 6 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
11:05:35 AM Nov 29, 2021
Frequency
10 dB/div
Ref -10.00 dBm
Log
Center Freq
107.900000 MHz
CF Step
15.000 kHz
Auto
Man
Freq Offset
0 Hz
Center 107.9 MHz
#Res BW 10 kHz
#VBW 30 kHz
Span 150 kHz
Sweep 1.867 ms
Occupied Bandwidth
49.337 kHz
Total Power -21.4 dBm
Transmit Freq Error -335 Hz
OBW Power 99.00 %
x dB Bandwidth 52.95 kHz
x dB -20.00 dB
MSG
STATUS

3.4. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):
(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

**************************THE END**************************