e 1 of 35 FCC ID: 2BEI5-MC054VRC3A

### FCC TEST REPORT

### **FOR**

Shenzhen Merrytek Technology Co.,Ltd

Lighting Control Switch (Motion Sensor)

Test Model: MC054V RC3 A

Additional Model No.: Please Refer to Page 6

Prepared for : Shenzhen Merrytek Technology Co.,Ltd

Rm 101-1101, 17th Building, Dianda Guyuan Industrial Park,

Report No.: LCSA10203086EA

Address : Mashantou Community, Matian Street, Guangming District,

Shenzhen, China, 518106

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd

Address 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : October 27, 2023

Number of tested samples : 2

Sample No. : A10203086-1, A10203086-2

Sample number : Prototype

Date of Test : October 27, 2023 ~ November 17, 2023

Date of Report : November 17, 2023



Shenzhen LCS Compliance Testing Laboratory Ltd.

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Page 2 of 35

FCC ID: 2BEI5-MC054VRC3A

**FCC TEST REPORT** 

FCC CFR 47 PART 15 C (15.249)

Report Reference No. .....: LCSA10203086EA

Date of Issue.....: November 17, 2023

Testing Laboratory Name .....: Shenzhen LCS Compliance Testing Laboratory Ltd.

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

Full application of Harmonised standards

Testing Location/ Procedure ........ Partial application of Harmonised standards

Applicant's Name .....: Shenzhen Merrytek Technology Co.,Ltd

Rm 101-1101, 17th Building, Dianda Guyuan Industrial Park,

Address.....: Mashantou Community, Matian Street, Guangming District,

Shenzhen, China, 518106

**Test Specification** 

Standard ...... : FCC CFR 47 PART 15 C(15.249) / ANSI C63.10: 2013

Test Report Form No.....: LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.....: Lighting Control Switch (Motion Sensor)

Trade Mark .....: merrytek

Test Model .....: MC054V RC3 A

Ratings.....: Input: 220-240Vac 50/60Hz

Max. Load: 800W-Inductive

1200W-Resistive

Result .....: Positive

Compiled by:

Supervised by:

Approved by:

Report No.: LCSA10203086EA

Vera Dang

Vera Deng/ Administrator

stina

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

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Cary Luo/ Technique principal







November 17, 2023 Test Report No.: LCSA10203086EA Date of issue

: MC054V RC3 A Test Model.....

EUT.....: : Lighting Control Switch (Motion Sensor)

: Shenzhen Merrytek Technology Co.,Ltd Applicant.....

Rm 101-1101, 17th Building, Dianda Guyuan Industrial Park,

: Mashantou Community, Matian Street, Guangming District, Address.....

Shenzhen, China, 518106

Telephone.....

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Manufacturer..... : Shenzhen Merrytek Technology Co.,Ltd

Rm 101-1101, 17th Building, Dianda Guyuan Industrial Park,

: Mashantou Community, Matian Street, Guangming District, Address.....

Shenzhen, China, 518106

Telephone..... Fax.....

: Shenzhen Merrytek Technology Co.,Ltd Factory.....

Rm 101-1101, 17th Building, Dianda Guyuan Industrial Park,

Address..... : Mashantou Community, Matian Street, Guangming District,

Shenzhen, China, 518106

Telephone.....

Fax.....

Test Result	Positive

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.





FCC ID: 2BEI5-MC054VRC3A

# Revision History

Report Version	Issue Date	Revision Content	Revised By
000	November 17, 2023	Initial Issue	















#### FCC ID: 2BEI5-MC054VRC3A

### **TABLE OF CONTENTS**

1. GENERAL INFORMATION	9	6
1.1 Description of Device (EUT)		6
1.2. Support Equipment List		
1.3. External I/O		7
1.4. Description of Test Facility		
1.5. Statement of the measurement uncertaint		
1.6. Measurement Uncertainty		
1.7. Description of Test Modes		8
2. TEST METHODOLOGY		9
2.1. EUT Configuration		9
2.2. EUT Exercise		
2.3. General Test Procedures		
3. CONNECTION DIAGRAM OF TEST SYST	Γ <b>ΕΜ</b>	
3.1. Justification		10
3.2. EUT Exercise Software		10
3.3. Special Accessories		
3.4. Block Diagram/Schematics		
3.5. Equipment Modifications		
3.6. Test Setup		
4. SUMMARY OF TEST RESULTS	••••••	11
5. ANTENNA REQUIREMENT		12
6. POWER LINE CONDUCTED EMISSIONS		13
7. RADIATED EMISSION MEASUREMENT	The state of the s	16
8. RESULTS FOR BAND EDGE TESTING		26
9. 20 DB BANDWIDTH MEASUREMENT		32
10. LIST OF MEASURING EQUIPMENT		34
11. TEST SETUP PHOTOGRAPHS OF THE	EUT	35
12. EXTERIOR PHOTOGRAPHS OF THE E		
13. INTERIOR PHOTOGRAPHS OF THE EU		



















Page 6 of 35 FCC ID: 2BEI5-MC054VRC3A Report No.: LCSA10203086EA

### 1. GENERAL INFORMATION

### 1.1 Description of Device (EUT)

EUT : Lighting Control Switch (Motion Sensor)

Test Model : MC054V RC3 A

Additional Model No. : MC054V RC2 A/B/C/D, MC054V RC3 A/B/C/D, MC054V RC4

A/B/C/D

Model Declaration : PCB board, structure and internal of these model(s) are the

same, So no additional models were tested

Power Supply : Input: 220-240Vac 50/60Hz

Max. Load: 800W-Inductive 1200W-Resistive

Hardware Version : /

Software Version : /

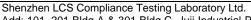
5.8G

Frequency Range : 5725MHz-5875MHz

Channel Number : 1channels(5800MHz)

Modulation Type : 5.8G microwave

Antenna Description : Internal Antenna, 5.8dBi(Max.)





Page 7 of 35 FCC ID: 2B

FCC ID: 2BEI5-MC054VRC3A Report No.: LCSA10203086EA

### 1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
		1		

#### 1.3. External I/O

I/O Port Description	Quantity	Cable	

### 1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

### 1.5. Statement of the 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 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.

### 1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
元 於 · 則 於 ? ?	9KHz~30MHz	±3.10dB	(1)
I IIII Testing Las	30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty :	200MHz~1000MHz	±3.10dB	(1)
	1GHz~26.5GHz	±3.80dB	(1)
	26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty:	150kHz~30MHz	±1.63dB	(1)
Power disturbance :	30MHz~300MHz	±1.60dB	(1)
Occupied Channel :	1GHz-40GHz	±5%	(1)
Bandwidth			

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



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Page 8 of 35 FCC ID: 2BEI5-MC054VRC3A Report No.: LCSA10203086EA

### 1.7. Description of Test Modes

Operates in the unlicensed ISM Band at 5.8GHz. The EUT works in the X-axis,

Y-axis, Z-axis. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Mode of Operations	Frequency Range (MHz)		Data Rate (Mbps)	
5.8G microwave	5800		/	
F	For Conducted Em	ission		
Test Mode	- 1 T.	份	TX Mode	
	For Radiated Emis	ssion		
Test Mode	MS CS Testing	•	TX Mode	STORT

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX.

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上京 立语检测股份





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### 2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd.

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### 2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

#### 2.3. General Test Procedures

#### 2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.



### 3. CONNECTION DIAGRAM OF TEST SYSTEM

#### 3.1. Justification

The system was configured for testing in a continuous transmit condition.

#### 3.2. EUT Exercise Software

Press the corresponding button, and change the channel.

### 3.3. Special Accessories

N/A

### 3.4. Block Diagram/Schematics

Please refer to the related document

### 3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

### 3.6. Test Setup

Please refer to the test setup photo.



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### 4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C §15.249						
FCC Rules Description Of Test						
Antenna Requirement	Compliant					
Power Line Conducted Emissions	Compliant					
Radiated Emissions Measurement	Compliant					
Band Edges Measurement	Compliant					
20 dB Bandwidth	Compliant					
	Description Of Test  Antenna Requirement  Power Line Conducted Emissions  Radiated Emissions Measurement  Band Edges Measurement					

Remark: N/A\* - Not Applicable for this device!!!







### 5. ANTENNA REQUIREMENT

### 5.1. Standard Applicable

According to § 15.203 and RSS-Gen, 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 an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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.

### 5.2. Antenna Connected Construction

The EUT use Internal Antenna and maximum antenna gain is 5.80dBi, antenna cannot replacement, meets FCC Part §15.203 antenna requirement. Please see EUT photo for details.

### 5.3. Results

Compliance



LCS Testing Lab
LCS Testing Lab





### 6. POWER LINE CONDUCTED EMISSIONS

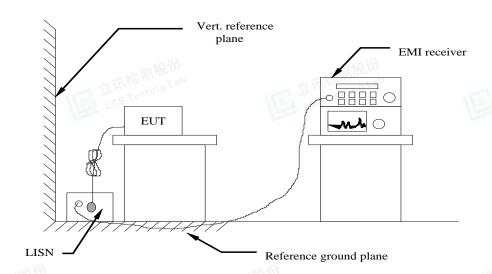
### 6.1. Standard Applicable

According to §15.207 (a) & RSS-Gen § 8.8: For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range	Limits (dBµV)				
(MHz)	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			

<sup>\*</sup> Decreasing linearly with the logarithm of the frequency

### 6.2. Block Diagram of Test Setup



### 6.3. Test Results

### PASS.

The test data please refer to following page.

Temperature	<b>23.5</b> ℃	Humidity	53.6%
Test Engineer	Joker Hu	Configurations	TX

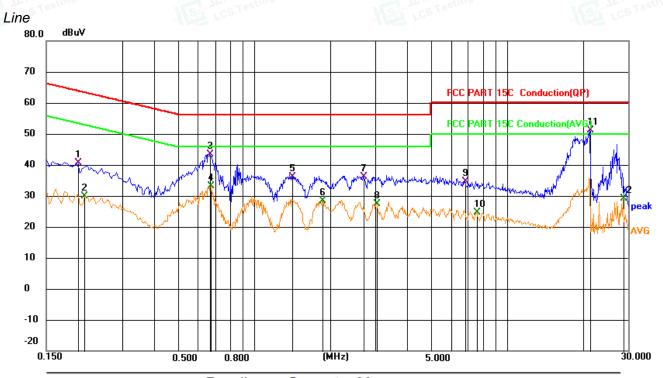


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### AC Conducted Emission @ AC 120V/60Hz (worst case)



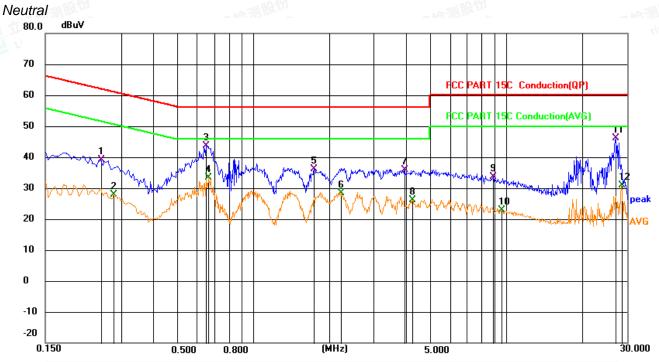
		Level	Factor	ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	0.1996	20.93	19.63	40.56	63.63	-23.07	QP
	0.2131	10.30	19.63	29.93	53.08	-23.15	AVG
	0.6675	23.76	19.65	43.41	56.00	-12.59	QP
	0.6720	13.51	19.65	33.16	46.00	-12.84	AVG
	1.4144	16.58	19.66	36.24	56.00	-19.76	QP
	1.8510	8.63	19.68	28.31	46.00	-17.69	AVG
	2.6971	16.48	19.68	36.16	56.00	-19.84	QP
	3.0481	7.80	19.70	27.50	46.00	-18.50	AVG
	6.7786	14.89	19.72	34.61	60.00	-25.39	QP
	7.5706	4.77	19.75	24.52	50.00	-25.48	AVG
*	21.1921	30.89	20.14	51.03	60.00	-8.97	QP
	28.6846	9.05	20.08	29.13	50.00	-20.87	AVG
		0.2131 0.6675 0.6720 1.4144 1.8510 2.6971 3.0481 6.7786 7.5706	0.1996 20.93 0.2131 10.30 0.6675 23.76 0.6720 13.51 1.4144 16.58 1.8510 8.63 2.6971 16.48 3.0481 7.80 6.7786 14.89 7.5706 4.77 * 21.1921 30.89	0.1996     20.93     19.63       0.2131     10.30     19.63       0.6675     23.76     19.65       0.6720     13.51     19.65       1.4144     16.58     19.66       1.8510     8.63     19.68       2.6971     16.48     19.68       3.0481     7.80     19.70       6.7786     14.89     19.72       7.5706     4.77     19.75       *     21.1921     30.89     20.14	0.1996       20.93       19.63       40.56         0.2131       10.30       19.63       29.93         0.6675       23.76       19.65       43.41         0.6720       13.51       19.65       33.16         1.4144       16.58       19.66       36.24         1.8510       8.63       19.68       28.31         2.6971       16.48       19.68       36.16         3.0481       7.80       19.70       27.50         6.7786       14.89       19.72       34.61         7.5706       4.77       19.75       24.52         *       21.1921       30.89       20.14       51.03	0.1996       20.93       19.63       40.56       63.63         0.2131       10.30       19.63       29.93       53.08         0.6675       23.76       19.65       43.41       56.00         0.6720       13.51       19.65       33.16       46.00         1.4144       16.58       19.66       36.24       56.00         1.8510       8.63       19.68       28.31       46.00         2.6971       16.48       19.68       36.16       56.00         3.0481       7.80       19.70       27.50       46.00         6.7786       14.89       19.72       34.61       60.00         *       21.1921       30.89       20.14       51.03       60.00	0.1996       20.93       19.63       40.56       63.63       -23.07         0.2131       10.30       19.63       29.93       53.08       -23.15         0.6675       23.76       19.65       43.41       56.00       -12.59         0.6720       13.51       19.65       33.16       46.00       -12.84         1.4144       16.58       19.66       36.24       56.00       -19.76         1.8510       8.63       19.68       28.31       46.00       -17.69         2.6971       16.48       19.68       36.16       56.00       -19.84         3.0481       7.80       19.70       27.50       46.00       -18.50         6.7786       14.89       19.72       34.61       60.00       -25.39         7.5706       4.77       19.75       24.52       50.00       -25.48         *       21.1921       30.89       20.14       51.03       60.00       -8.97



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Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
MHz	dBuV	dB	dBuV	dBuV	dB	Detector
0.2491	19.41	19.63	39.04	61.79	-22.75	QP
0.2806	8.21	19.63	27.84	50.80	-22.96	AVG
0.6495	24.03	19.65	43.68	56.00	-12.32	QP
0.6630	13.66	19.65	33.31	46.00	-12.69	AVG
1.7430	16.47	19.67	36.14	56.00	-19.86	QP
2.2290	8.69	19.69	28.38	46.00	-17.62	AVG
3.9526	16.11	19.80	35.91	56.00	-20.09	QP
4.2495	6.39	19.80	26.19	46.00	-19.81	AVG
8.8711	13.80	19.85	33.65	60.00	-26.35	QP
9.6135	2.97	19.85	22.82	50.00	-27.18	AVG
27.0331	26.07	20.04	46.11	60.00	-13.89	QP
28.5586	10.73	20.08	30.81	50.00	-19.19	AVG
	MHz 0.2491 0.2806 0.6495 0.6630 1.7430 2.2290 3.9526 4.2495 8.8711 9.6135 27.0331	Freq. Level  MHz dBuV  0.2491 19.41  0.2806 8.21  0.6495 24.03  0.6630 13.66  1.7430 16.47  2.2290 8.69  3.9526 16.11  4.2495 6.39  8.8711 13.80  9.6135 2.97  27.0331 26.07	Freq.         Level         Factor           MHz         dBuV         dB           0.2491         19.41         19.63           0.2806         8.21         19.63           0.6495         24.03         19.65           0.6630         13.66         19.65           1.7430         16.47         19.67           2.2290         8.69         19.69           3.9526         16.11         19.80           4.2495         6.39         19.80           8.8711         13.80         19.85           9.6135         2.97         19.85           27.0331         26.07         20.04	Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV           0.2491         19.41         19.63         39.04           0.2806         8.21         19.63         27.84           0.6495         24.03         19.65         43.68           0.6630         13.66         19.65         33.31           1.7430         16.47         19.67         36.14           2.2290         8.69         19.69         28.38           3.9526         16.11         19.80         35.91           4.2495         6.39         19.80         26.19           8.8711         13.80         19.85         33.65           9.6135         2.97         19.85         22.82           27.0331         26.07         20.04         46.11	Freq.         Level         Factor         ment         Limit           MHz         dBuV         dBuV         dBuV         dBuV           0.2491         19.41         19.63         39.04         61.79           0.2806         8.21         19.63         27.84         50.80           0.6495         24.03         19.65         43.68         56.00           0.6630         13.66         19.65         33.31         46.00           1.7430         16.47         19.67         36.14         56.00           2.2290         8.69         19.69         28.38         46.00           3.9526         16.11         19.80         35.91         56.00           4.2495         6.39         19.80         26.19         46.00           8.8711         13.80         19.85         33.65         60.00           9.6135         2.97         19.85         22.82         50.00           27.0331         26.07         20.04         46.11         60.00	Freq.         Level         Factor         ment         Limit         Margin           MHz         dBuV         dB         dBuV         dBuV         dB           0.2491         19.41         19.63         39.04         61.79         -22.75           0.2806         8.21         19.63         27.84         50.80         -22.96           0.6495         24.03         19.65         43.68         56.00         -12.32           0.6630         13.66         19.65         33.31         46.00         -12.69           1.7430         16.47         19.67         36.14         56.00         -19.86           2.2290         8.69         19.69         28.38         46.00         -17.62           3.9526         16.11         19.80         35.91         56.00         -20.09           4.2495         6.39         19.80         26.19         46.00         -19.81           8.8711         13.80         19.85         33.65         60.00         -26.35           9.6135         2.97         19.85         22.82         50.00         -27.18           27.0331         26.07         20.04         46.11         60.00         -13.89

<sup>\*\*\*</sup>Note:

- 1). Pre-scan all modes and recorded the worst case results in this report(GFSK).
- 2). Measurement = Reading + Correct, Margin = Measurement Limit. Correct Factor= Lisn Factor+Cable Factor



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### 7. RADIATED EMISSION MEASUREMENT

### 7.1. Standard Applicable

According to FCC § 15.249: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) and 15.249 limit in the table below has to be followed.

Fundamental	Field Strength of fundamental	Field Strength of harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
902-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

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	测 3 二 元 首
Above 960	500	3

#### According to RSS-210 B.10:

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

The field strength limits shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.

Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

### 7.2. Instruments Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 <sup>th</sup> carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average



of 35 FCC ID: 2BEI5-MC054VRC3A

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

#### 7.3. Test Procedure

### 1) Sequence of testing 9 kHz to 30 MHz

#### Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

#### **Premeasurement:**

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.0 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

#### **Final measurement:**

- --- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.



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#### 2) Sequence of testing 30 MHz to 1 GHz

#### Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

#### **Premeasurement:**

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

#### **Final measurement:**

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.





Page 19 of 35 FCC ID: 2BEI5-MC054VRC3A Report No.: LCSA10203086EA

### 3) Sequence of testing 1 GHz to 18 GHz

### Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

#### **Premeasurement:**

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

#### **Final measurement:**

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm$  45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



### 4) Sequence of testing above 18 GHz

#### Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

#### **Premeasurement:**

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

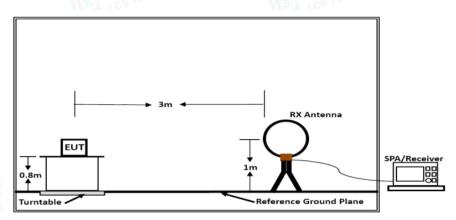
#### **Final measurement:**

- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

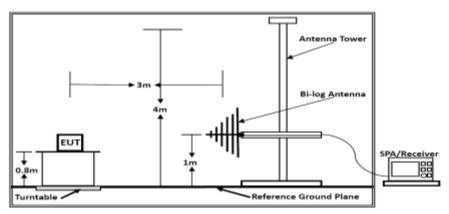




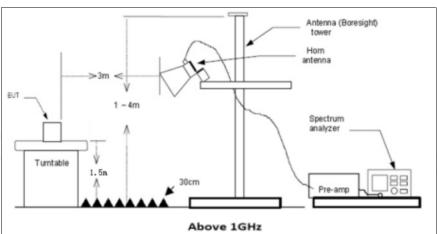
### 7.4. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

### 7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



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#### Page 22 of 35

FCC ID: 2BEI5-MC054VRC3A

Report No.: LCSA10203086EA

### 7.6. Test Results of Radiated Emissions (9 KHz~30 MHz)

AND T	- 11.71° ANV	4 71.77 400	4 31.11
Temperature	23.8℃	Humidity	52.1%
Test Engineer	Joker Hu	Configurations	TX

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

#### Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

### 7.7. Test Results of Radiated Emissions (30 MHz – 1000 MHz)

Temperature	23.8℃	Humidity	52.1%
Test Engineer	Joker Hu	Configurations	TX

#### PASS.

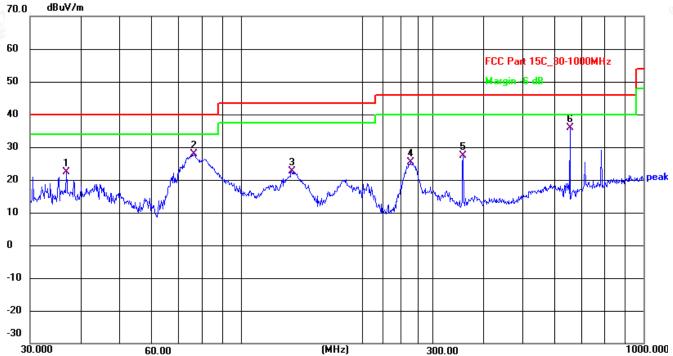
The test data please refer to following page.



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Vertical dBuV/m

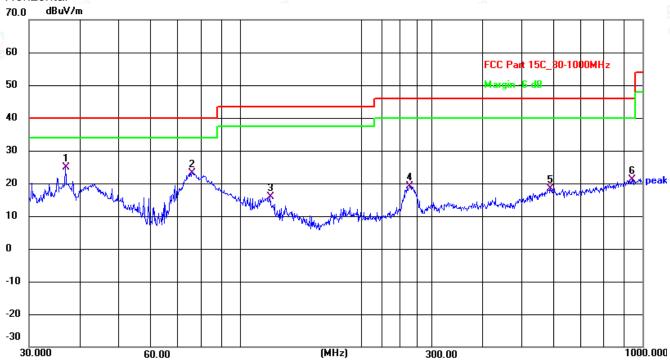


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8952	40.09	-17.70	22.39	40.00	-17.61	QP
2	76.5119	47.54	-19.74	27.80	40.00	-12.20	QP
3	133.6187	43.28	-20.69	22.59	43.50	-20.91	QP
4	263.8190	40.89	-15.48	25.41	46.00	-20.59	QP
5	356.6757	42.31	-14.83	27.48	46.00	-18.52	QP
6	656.5300	46.81	-11.04	35.77	46.00	-10.23	QP



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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8953	42.47	-17.70	24.77	40.00	-15.23	QP
2	76.2442	42.92	-19.73	23.19	40.00	-16.81	QP
3	119.0179	35.68	-19.85	15.83	43.50	-27.67	QP
4	263.8190	34.55	-15.48	19.07	46.00	-26.93	QP
5	590.9737	28.95	-10.58	18.37	46.00	-27.63	QP
6	942.1304	29.22	-8.09	21.13	46.00	-24.87	QP

- 1). Pre-scan all modes and recorded the worst case results in this report (GFSK).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Level = Reading + Factor, Margin = Level Limit, Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor







Page 25 of 35

FCC ID: 2BEI5-MC054VRC3A

Report No.: LCSA10203086EA

### 7.8. Results for Radiated Emissions (1 – 40 GHz)

Frequency: 5760MHz

Field Strength of Fundamental (TX-5800 MHz)							
Frequency (MHz) Pol. Measure Result Peak Limit AVG Limit (PK, dBuV/m) (dBuV/m) Result							
5800	Н	90.44	114	94	Pass		
5800	V	92.44	114	94	Pass		

Freq. GHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/ m	Margin dB	Remark	Pol.
17.28	63.17	33.23	35.04	3.91	65.27	74.00	-8.73	Peak	Horizontal
17.28	43.90	33.23	35.04	3.91	46.00	54.00	-8.00	Average	Horizontal
17.28	57.08	33.23	35.04	3.91	59.18	74.00	-14.82	Peak	Vertical
17.28	43.29	33.23	35.04	3.91	45.39	54.00	-8.61	Average	Vertical

#### Notes:

- 1). Measuring frequencies from 9 KHz  $10^{th}$  harmonic (ex. 40GHz), No emission found between lowest internal used/generated frequency to 30 MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz 10<sup>th</sup> harmonic (ex. 40GHz) were made with an instrument using Peak detector mode.
- 3). 18~25 GHz at least have 20dB margin. No recording in the test report.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level Limit,

Factor = Antenna Factor + Cable Loss - Preamp Factor

5). Note: The AV value is not recorded because the peak value does not exceed the AV limit.



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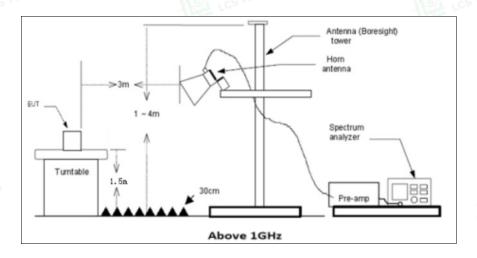
### 8. RESULTS FOR BAND EDGE TESTING

### 8.1. Standard Applicable

According to FCC §15.249 (d): Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to RSS-210 B.10 (b): Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emissions or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

### 8.2. Test Setup Layout



### 8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

#### 8.4. Test Procedures

#### 3) Sequence of testing 1 GHz to 18 GHz

#### Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.



#### **Premeasurement:**

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

#### **Final measurement:**

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

### 8.5. Measuring Instruments and Setting

Temperature	23.5℃	Humidity	52.1%
Test Engineer	Joker Hu	Configurations	TX

#### **PASS**

### Remark:

- 1. The other emission levels were very low against the limit.
- 2. The average measurement was not performed when the peak measured data under the limit of average detection.
- 3. Please refer to following test plots;



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Scan code to check authenticity



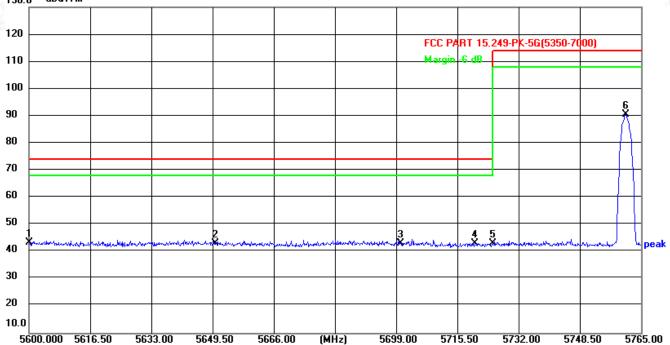
Page 28 of 35

FCC ID: 2BEI5-MC054VRC3A

Report No.: LCSA10203086EA

Channel Frequency: 5800MHz

Horizontal dBuV/m 130.0



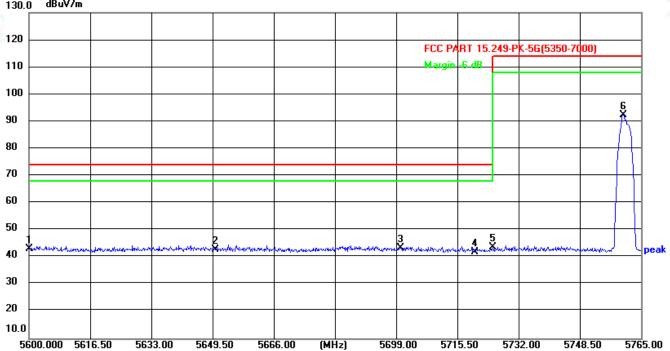
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5600.000	46.70	-3.31	43.39	74.00	-30.61	peak
2	5650.000	46.58	-3.35	43.23	74.00	-30.77	peak
3	5700.000	46.70	-3.40	43.30	74.00	-30.70	peak
4	5720.000	46.57	-3.43	43.14	74.00	-30.86	peak
5	5725.000	46.59	-3.42	43.17	74.00	-30.83	peak
6	5760.875	93.89	-3.45	90.44	114.00	-23.56	peak



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No	<b>)</b> .	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1		5600.000	46.41	-3.31	43.10	74.00	-30.90	peak
2	2	5650.000	46.22	-3.35	42.87	74.00	-31.13	peak
3	3	5700.000	46.77	-3.40	43.37	74.00	-30.63	peak
4	ļ	5720.000	45.49	-3.43	42.06	74.00	-31.94	peak
5	5	5725.000	47.21	-3.42	43.79	74.00	-30.21	peak
6	6	5760.215	95.89	-3.45	92.44	114.00	-21.56	peak







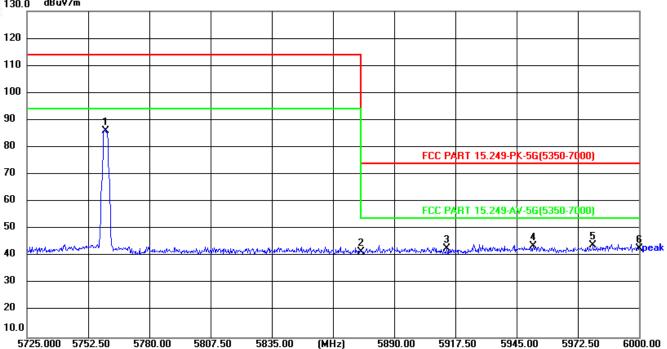






Channel Frequency: 5800MHz

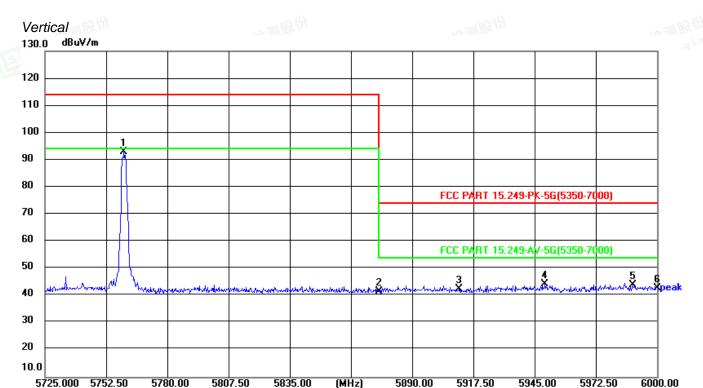




No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5760.450	89.54	-3.45	86.09	114.00	-27.91	peak
2	5875.000	45.34	-3.57	41.77	74.00	-32.23	peak
3	5913.650	46.36	-3.61	42.75	74.00	-31.25	peak
4	5952.425	47.36	-3.64	43.72	74.00	-30.28	peak
5	5979.375	47.62	-3.67	43.95	74.00	-30.05	peak
6	6000.000	46.42	-3.69	42.73	74.00	-31.27	peak
1/2	工记证 Los Testing Lab		LCS Tes	ting Lab	E	LCS Test	ing Lab







No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5760.475	96.42	-3.45	92.97	114.00	-21.03	peak
2	5875.000	45.28	-3.57	41.71	74.00	-32.29	peak
3	5910.900	46.14	-3.60	42.54	74.00	-31.46	peak
4	5949.675	48.00	-3.64	44.36	74.00	-29.64	peak
5	5989.000	47.83	-3.68	44.15	74.00	-29.85	peak
6	6000.000	46.42	-3.69	42.73	74.00	-31.27	peak

Notes:

Measured Level = Reading Level + Factor, Margin = Measured Level - Limit, Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor

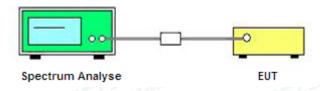


### 9. 20 DB BANDWIDTH MEASUREMENT

### 9.1. Standard Applicable

§15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### 9.2. Block Diagram of Test Setup



#### 9.3. Test Procedure

Use the following spectrum analyzer settings:

Span = 150MHz

RBW = 3MHz

VBW = 10MHz

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).



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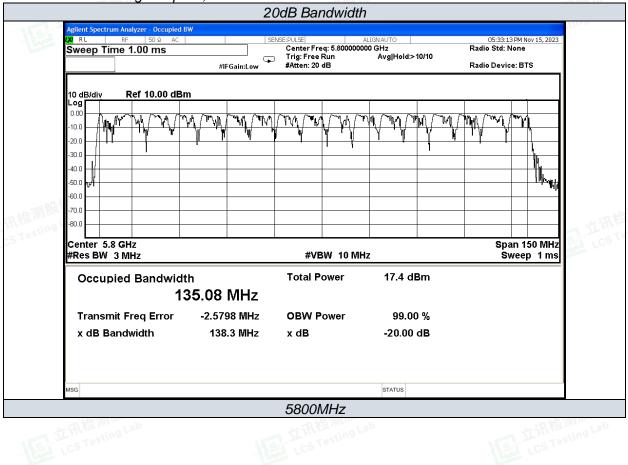
#### 9.4. Test Results

		The same of the sa	10 to
Temperature	23.8℃	Humidity	52.1%
Test Engineer	Joker Hu		

Test Result of 20dB Bandwidth Measurement							
Test Frequency	Test Frequency 99% Bandwidth 20dB Bandwidth Limit						
(MHz) (MHz)		(MHz)	(kHz)				
5800	5800 135.08 138.3 Non-Specified						

#### Remark:

- Test results including cable loss;
- Please refer following test plots;





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## 10. LIST OF MEASURING EQUIPMENT

10	). LIST OF MEASUR	ING EQUIPM	ENT			
Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022-10-29 2023-10-28	2023-10-28 2024-10-27
2	DC Power Supply	Agilent	E3642A	N/A	2022-10-29 2023-10-28	2023-10-28 2024-10-27
3	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2023-10-05	2024-10-04
4	EMI Test Software	AUDIX	E3	/	N/A	N/A
5	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2023-06-09	2024-06-08
6	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
10	EMI Test Receiver	R&S	ESR 7	101181	2023-06-09	2024-06-08
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29 2023-10-28	2023-10-28 2024-10-27
12	Broadband Preamplifier	/	BP-01M18G	P190501	2023-06-09	2024-06-08
13	EMI Test Receiver	R&S	ESPI	101940	2023-08-15	2024-08-14
14	Artificial Mains	R&S	ENV216	101288	2023-06-09	2024-06-08
15	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2023-06-09	2024-06-08
16	EMI Test Software	Farad	EZ	/	N/A	N/A
10	Livii Test Gottware	i aiau	L-C	. 115	IN/A	



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### 11. TEST SETUP PHOTOGRAPHS OF THE EUT

Please refer to separated files for Test Setup Photos of the EUT.

### 12. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

### 13. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF REPORT-----

