

## TABLE OF CONTENTS

1.	Test Certification			•••••	3
2.	Test Result Summary	•••••	<u> </u>	•••••	4
3.	EUT Description	•••••	•••••	•••••	5
4.	General Information		••••••		6
	4.1. Test environment and mode	$\sim$		$\sim$	6
	4.2. Description of Support Units			•••••	6
5.	Facilities and Accreditations				7
	5.1. Facilities	•••••		•••••	7
	5.2. Location		•••••		7
	5.3. Measurement Uncertainty		••••••		7
6.	Test Results and Measurement Data	a	•••••		
	6.1. Antenna requirement	••••••		•••••	8
	6.2. Conducted Emission	••••••			9
	6.3. Conducted Output Power	••••••		•••••	14
	6.4. Emission Bandwidth				17
	6.5. Power Spectral Density		•••••		20
	6.6. Conducted Band Edge and Spurious	Emission Me	easuremen	ıt	23
	6.7. Radiated Spurious Emission Measure	ement		••••••	
Α	ppendix A: Photographs of Test Setu	р			
Α	ppendix B: Photographs of EUT				

Page 2 of 51

# TCT通测检测 1. Test Certification

Product:	Smart Watch	
Model No.:	1963YH	
Additional Model No.:	1963, CARE C303, 1963A, 1963B, 1963C, 1963D, 1963E, 1963F, 1963G, 1963-01, 2022	Ċ
Trade Mark:	N/A	
Applicant:	Joint Chinese Ltd	
Address:	Building 6, Huafeng Tech Park, Luotian Industrial Area, Songgang Town, Baoan, Shenzhen, 518125 China	
Manufacturer:	Joint Chinese Ltd	S
Address:	Building 6, Huafeng Tech Park, Luotian Industrial Area, Songgang Town, Baoan, Shenzhen, 518125 China	
Date of Test:	Jul. 28, 2020 – Aug. 06, 2020	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013	S

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

51
ot



## 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS (
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

#### Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

5. After pre-testing the two earphones, the two earphones are left and right ears respectively; we found that the left earphone is the worst case, so the results are recorded in this report.

Page 4 of 51



## 3. EUT Description

Product:	Smart Watch
Model No.:	1963YH
Additional Model No.:	1963, CARE C303, 1963A, 1963B, 1963C, 1963D, 1963E, 1963F, 1963G, 1963-01, 2022
Trade Mark:	N/A
Hardware Version:	1963B-V1.0
Software Version:	1963YH_V100_1
Bluetooth Version:	V4.2
Operation Frequency:	2402MHz~2480MHz
Channel Separation: 2MHz	
Number of Channel:	40
Modulation Type:	GFSK
Antenna Type:	Ceramic Antenna
Antenna Gain:	0dBi
Power Supply: Rechargeable Li-ion Battery DC 3.7V	
Remark:       All models above are identical in interior structure, circuits and components, and just model names a for the marketing requirement.	

**Note:** The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark:	Remark: Channel 0, 19 & 39 have been tested.						

### **Operation Frequency each of channel**

## 4. General Information

## 4.1. Test environment and mode

Operating Environment:				
Condition	Conducted Emission	Radiated Emission		
Temperature:	25.0 °C	25.0 °C		
Humidity:	55 % RH	55 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		

### Test Mode:

Engineering mode:	Keep the EUT in continuous transmitting by select
	channel and modulations with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

## 4.2. Description of 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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	I		<u>ک</u> ۱	

Note:

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

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

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

## 5. Facilities and Accreditations

## 5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab.

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

## 5.2. Location

Shenzhen Tongce Testing Lab.

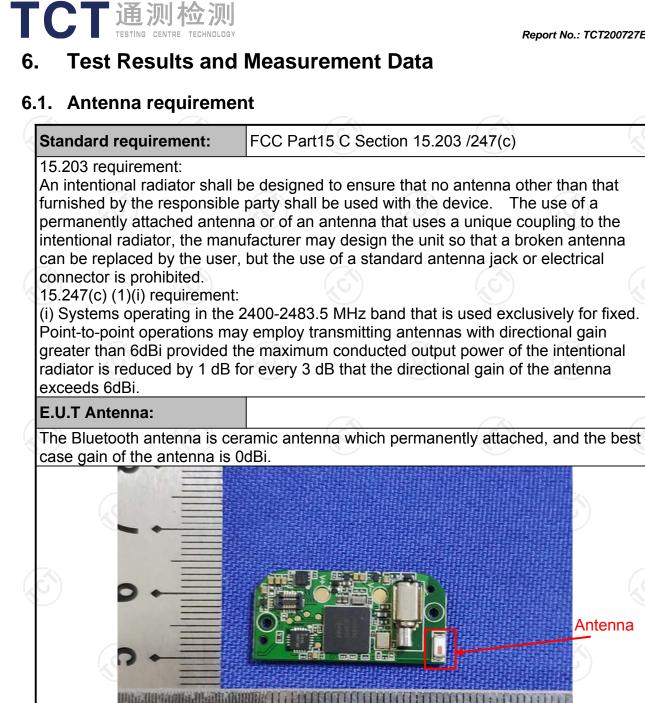
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

## 5.3. 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	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



Antenna



## 6.2. Conducted Emission

### 6.2.1. Test Specification

Test Requirement:					
	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	$\mathcal{C}$			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto		
	Frequency range	Limit (	dBuV)		
	(MHz)	Quasi-peak	Average 🖉		
Limits:	0.15-0.5	66 to 56*	56 to 46* 📎		
Linits.	0.5-5	56	46		
	5-30	60	50		
		nce Plane	$(\mathcal{G})$		
Test Setup:	E.U.T Adap Test table/Insulation plan Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	ne EMI Receiver			
Test Mode:	Charging + Transmittin	ig Mode			
Test Procedure:	<ul> <li>Charging + Transmitting Mode</li> <li>1. The E.U.T is connected to an adapter through a impedance stabilization network (L.I.S.N.). The provides a 50ohm/50uH coupling impedance for measuring equipment.</li> <li>2. The peripheral devices are also connected to the measuring impedance with 50ohm termination. (Ple refer to the block diagram of the test setup a photographs).</li> <li>3. Both sides of A.C. line are checked for maximed interference. In order to find the maximed interface cables must be changed according ANSI C63.10: 2013 on conducted measurement.</li> </ul>				
Test Result:	PASS				

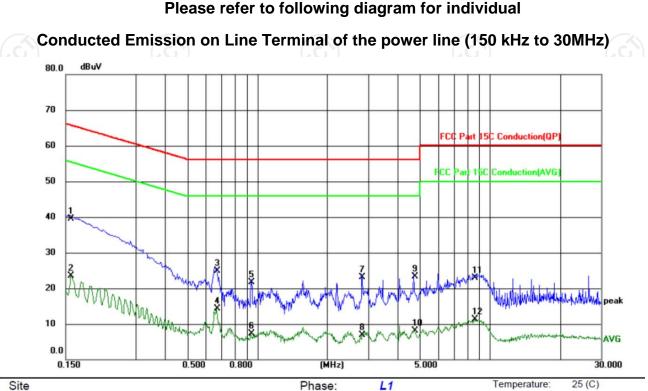
### 6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Test Receiver	R&S	ESPI	101402	Jul. 27, 2021		
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2020		
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 08, 2020		
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A		

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 10 of 51

6.2.3. Test data



Limit: FCC Part 15C Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %RH

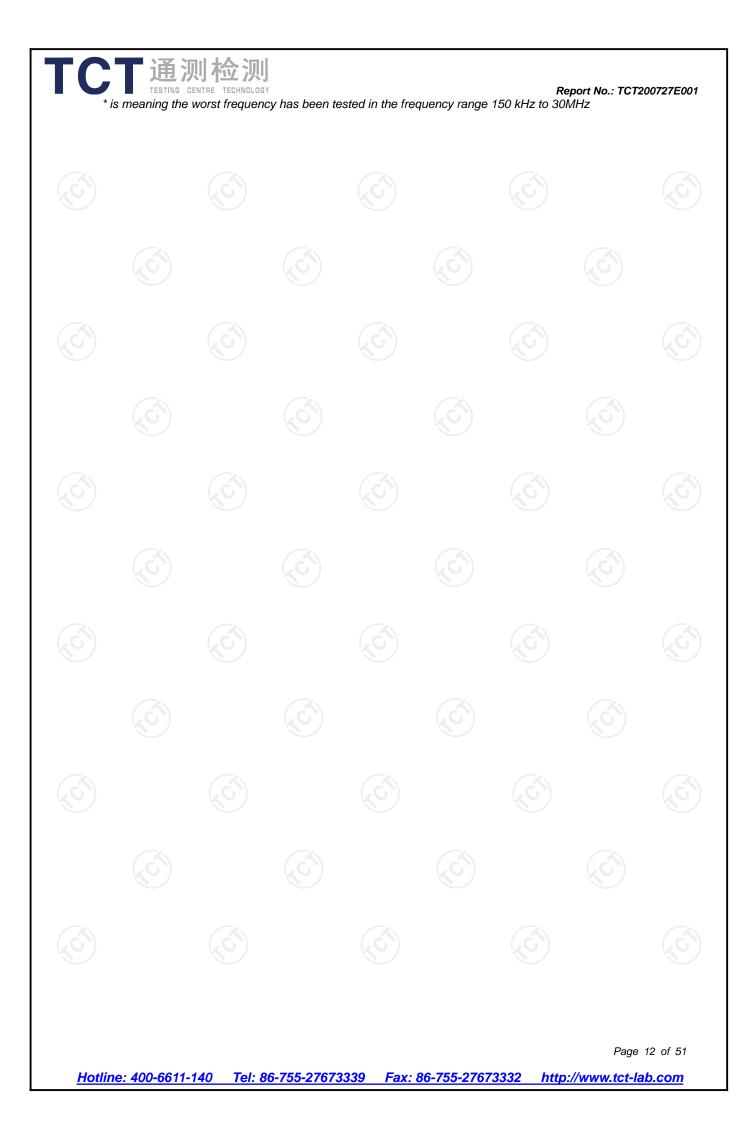
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1580	29.34	10.22	39.56	65.57	-26.01	QP	
2		0.1580	13.23	10.22	23.45	55.57	-32.12	AVG	
3		0.6700	14.63	10.23	24.86	56.00	-31.14	QP	
4		0.6700	4.01	10.23	14.24	46.00	-31.76	AVG	
5		0.9420	11.36	10.33	21.69	56.00	-34.31	QP	
6		0.9420	-3.11	10.33	7.22	46.00	-38.78	AVG	
7		2.8220	12.68	10.46	23.14	56.00	-32.86	QP	
8		2.8220	-3.50	10.46	6.96	46.00	-39.04	AVG	
9		4.7460	12.86	10.48	23.34	56.00	-32.66	QP	
10		4.7460	-2.43	10.48	8.05	46.00	-37.95	AVG	
11		8.5780	12.36	10.54	22.90	60.00	-37.10	QP	
12		8.5780	0.69	10.54	11.23	50.00	-38.77	AVG	

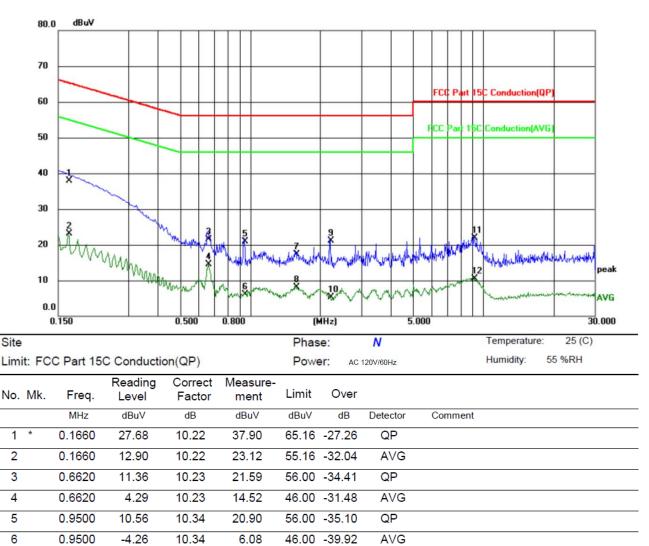
#### Note:

Freq. = Emission frequency in MHz Reading level  $(dB\mu V)$  = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)Limit  $(dB\mu V)$  = Limit stated in standard Margin (dB) = Measurement  $(dB\mu V)$  – Limits  $(dB\mu V)$ Q.P. =Quasi-Peak AVG =average

Page 11 of 51

Report No.: TCT200727E001





56.00 -38.70

46.00 -37.97

56.00 -34.90

46.00 -40.64

60.00 -38.08

50.00 -39.43

QP

AVG

QP

AVG QP

AVG

#### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

#### Note1:

7

8

9 10

11

12

Freq. = Emission frequency in MHz

6.89

-2.38

10.65

-5.09

11.36

0.01

10.41

10.41

10.45

10.45

10.56

10.56

17.30

8.03

21.10

5.36

21.92

10.57

Reading level  $(dB\mu V) = Receiver reading$ 

Corr. Factor (dB) = LISN factor + Cable loss

Measurement  $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor (dB)$ 

*Limit*  $(dB\mu V) = Limit$  stated in standard

Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

Q.P. =Quasi-Peak

1.5780

1.5780

2.2020

2.2020

9.1700

9.1700

TCT通测检测 TCT通测检测

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



## 6.3. Conducted Output Power

### 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074 D01 v05r02
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ul> <li>Set spectrum analyzer as following: <ul> <li>a) Set the RBW ≥ DTS bandwidth.</li> <li>b) Set VBW ≥ 3 × RBW.</li> <li>c) Set span ≥ 3 × RBW</li> <li>d) Sweep time = auto couple.</li> <li>e) Detector = peak.</li> <li>f) Trace mode = max hold.</li> <li>g) Allow trace to fully stabilize.</li> <li>h) Use peak marker function to determine the peak amplitude level.</li> </ul> </li> </ul>
Test Result:	PASS

### 6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020	
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020	
Antenna Connector	О тст	RFC-01	N/A 🧐	Sep. 11, 2020	

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

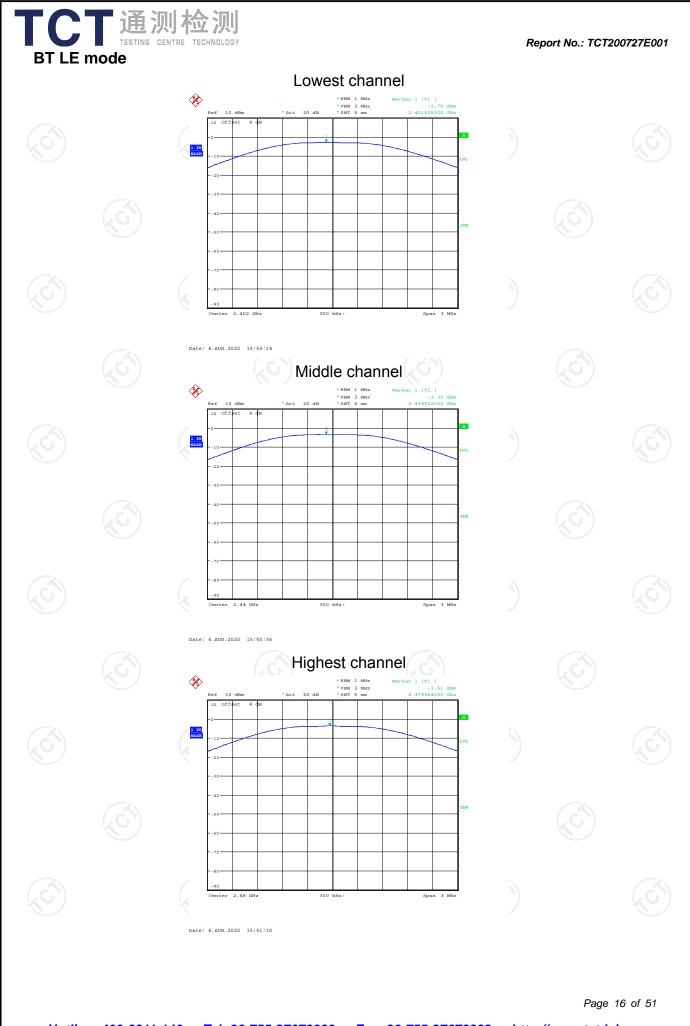
## 6.3.3. Test Data

TCT 通测检测 TESTING CENTRE TECHNOLOGY

BT LE mode						
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result			
Lowest	-2.76	30.00	PASS			
Middle	-3.30	30.00	PASS			
Highest	-3.61	30.00	PASS			

#### Test plots as follows:

Test plots as folic	ows:			
<u>Hotline: 400-661</u>	1-140 Tel: 86-755-27(	673339 Fax: 86-	755-27673332 http	Page 15 of 51 ://www.tct-lab.com





## 6.4. Emission Bandwidth

### 6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	>500kHz					
Test Setup:	Spectrum Analyzer	EUT				
Test Mode:	Refer to item 4.1					
Test Procedure:	EUT transmit continuo 2. Make the measurement resolution bandwidth (I Video bandwidth (VBW	t with the spectrum analyzer's RBW) = 100 kHz. Set the /) = 300 kHz. In order to make nent. The 6dB bandwidth must Iz.				
Test Result:	PASS					

### 6.4.2. Test Instruments

	RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020				
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 11, 2020				
Antenna Connector	🕥 тст	RFC-01	N/A	Sep. 11, 2020				

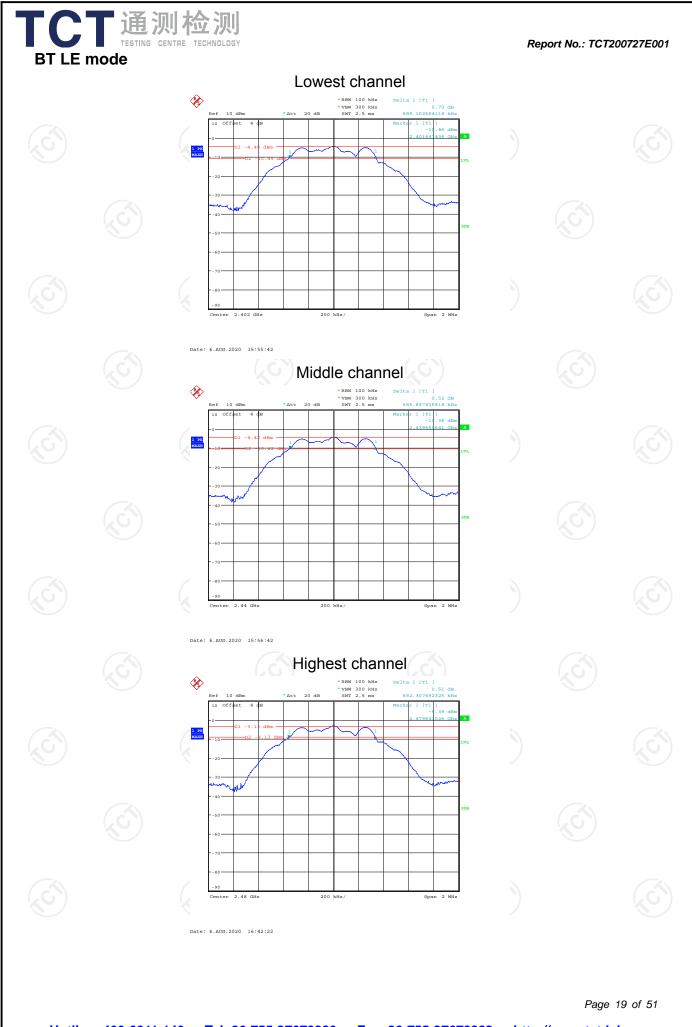
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.4.3. Test data

Test channel	6dB Emission Bandwidth (kHz)					
	BT LE mode	Limit	Result			
Lowest	689.10	>500k	12 and 1			
Middle	685.90	>500k	PASS			
Highest	692.31	>500k				
		$\mathcal{O}$				

Test plots as follows:

	DIS AS TOHOU	vs.						
Hotlin	<u>e: 400-6611</u>	-140 Tel: 8	36-755-27673	3339 Fax:	<u>86-755-2767</u>	' <u>3332 http</u>	Page <mark>://www.tct-la</mark>	18 of 51 1 <b>b.com</b>



## 6.5. Power Spectral Density

### 6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074 D01 v05r02
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)</li> <li>Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.</li> <li>Measure and record the results in the test report.</li> </ol>
Test Result:	PASS

### 6.5.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020		
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020		
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020		

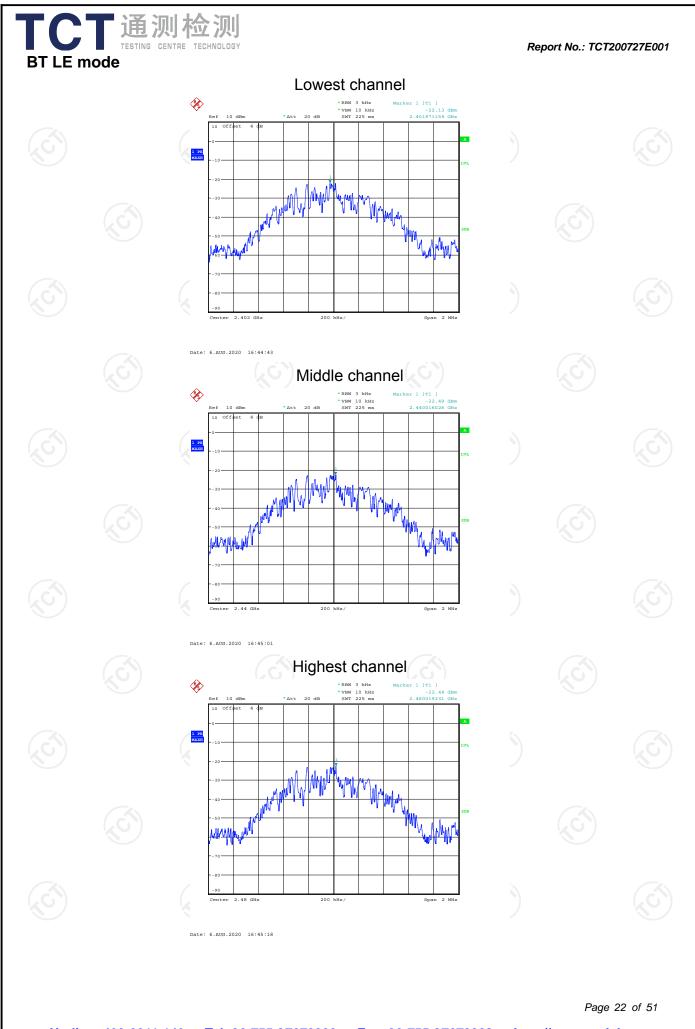
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to

international system unit (SI).

## 6.5.3. Test data

	Toot shapped	Power Spectral Density (dBm/3kHz)				
(	Test channel	BT LE mode	Limit	Result		
0	Lowest	-22.13	8 dBm/3kHz	Ĩ		
	Middle	-22.49	8 dBm/3kHz	PASS		
	Highest	-22.44	8 dBm/3kHz	$\langle \mathcal{O} \rangle$		

Test pl	ots as follov	vs:						
<u>Hotlir</u>	ne: 400-6611·	-140 Tel: 8	86-755-27673	3339 Fax:	<u>86-755-2767</u>	3332 http	Page ://www.tct-la	21 of 51 1 <b>b.com</b>



## TCT通测检测 TESTING CENTRE TECHNOLOGY

## 6.6. Conducted Band Edge and Spurious Emission Measurement

## 6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB a 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted</li> </ol>
	<ul> <li>power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>4. Measure and record the results in the test report.</li> <li>5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ul>

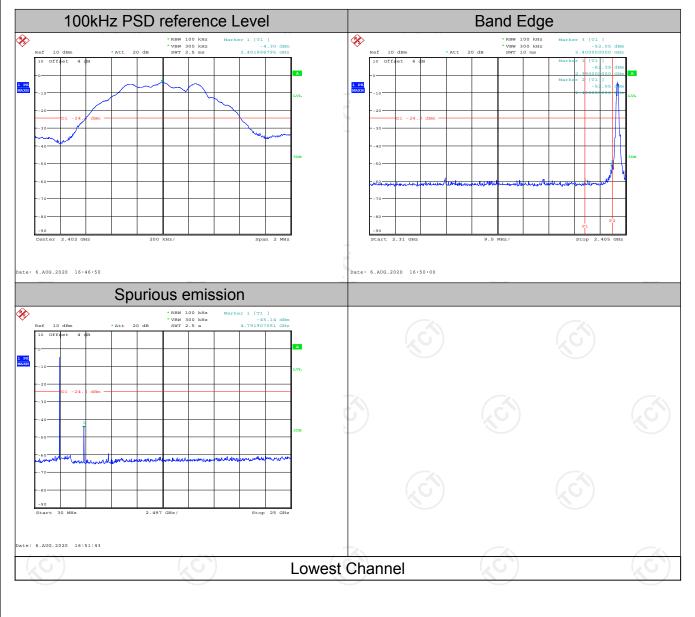
Page 23 of 51

### 6.6.2. Test Instruments

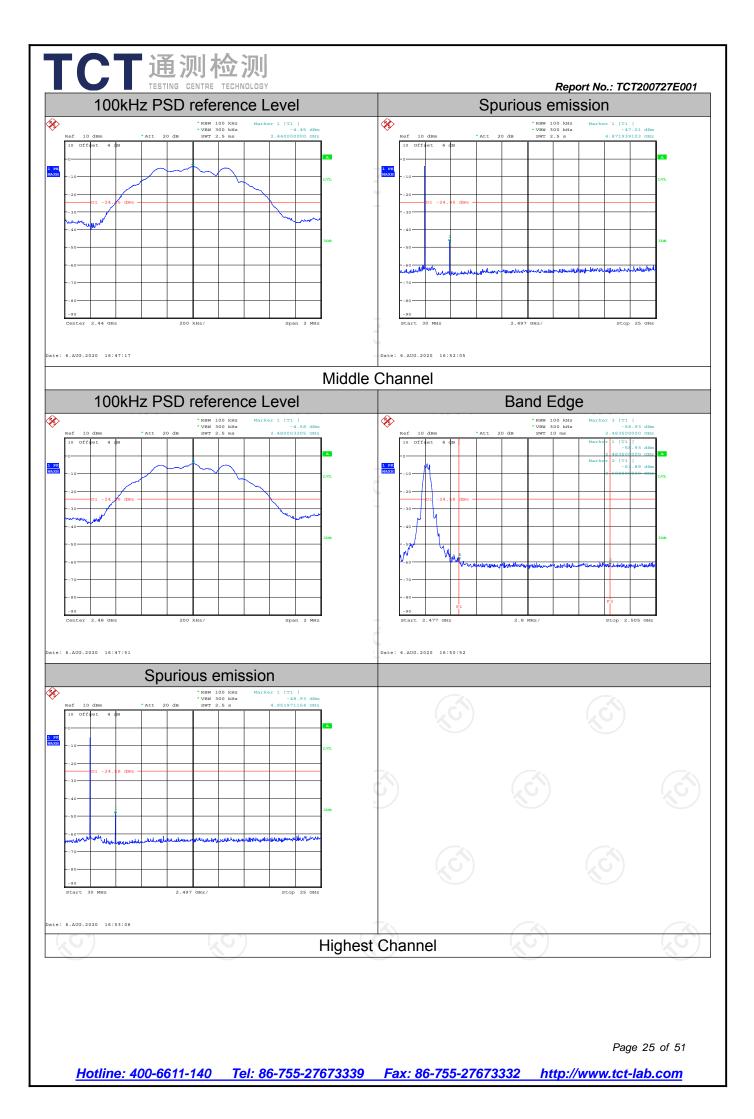
	RF Test Room											
Equipment	Manufacturer	Model	Serial Number	Calibration Due								
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020								
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020								
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020								

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.6.3. Test Data



Page 24 of 51



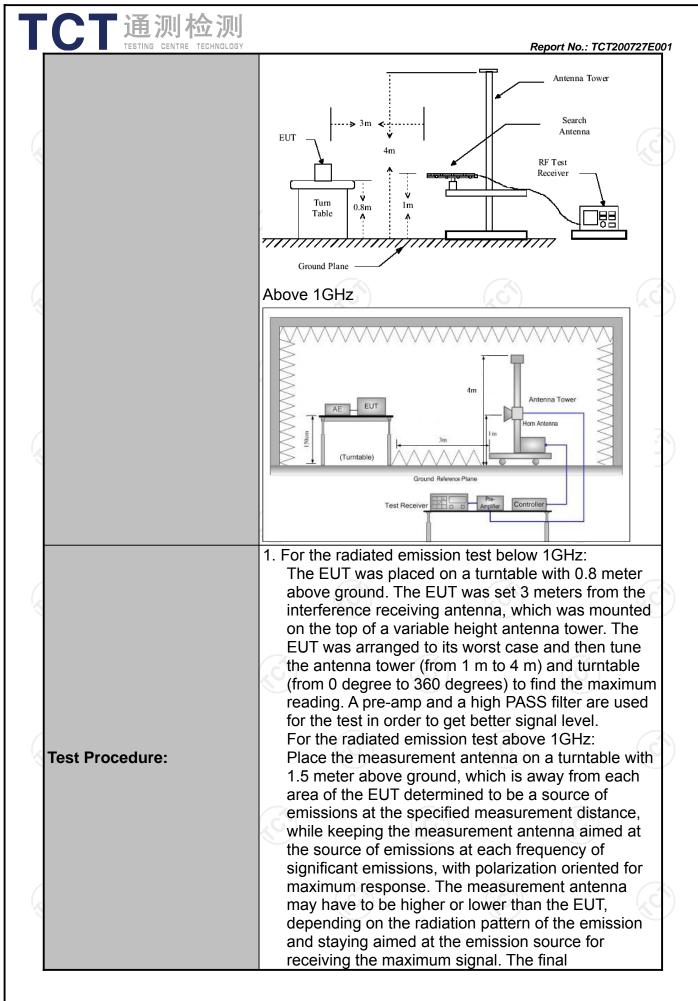
## 6.7. Radiated Spurious Emission Measurement

### 6.7.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15	C Section	15.209				
Test Method:	ANSI C63.10	): 2013					
Frequency Range:	9 kHz to 25 (	GHz	3				
Measurement Distance:	3 m	X	9		8		
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Refer to item	14.1	(				
	Frequency 9kHz- 150kHz	Detector Quasi-peal	RBW	VBW 1kHz	Remark Quasi-peak Value		
	150kHz- 30MHz	Quasi-peak		30kHz	Quasi-peak Value		
Receiver Setup:	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	Above IGHZ	Peak	1MHz	10Hz	Average Value		
	Frequen	ю	Field Stro (microvolts		Measurement Distance (meters)		
	0.009-0.4	190	2400/F(I		300		
	0.490-1.7		24000/F(		30		
	1.705-3	80	30		30		
	30-88		<u> </u>		3		
	88-216		150		3		
Limit:	216-96		200		3		
	Above 9	60	500		3		
		(	(G)				
	Frequency		Field Strength (microvolts/meter)		ement nce Detector rs)		
			500		Average		
	Above 1GHz	2	5000	3	Peak		
Test setup:	EUT 0.8m	stance = 3m		Pre -/	Computer		
	30MHz to 1GHz						

Page 26 of 51



## 6.7.2. Test Instruments

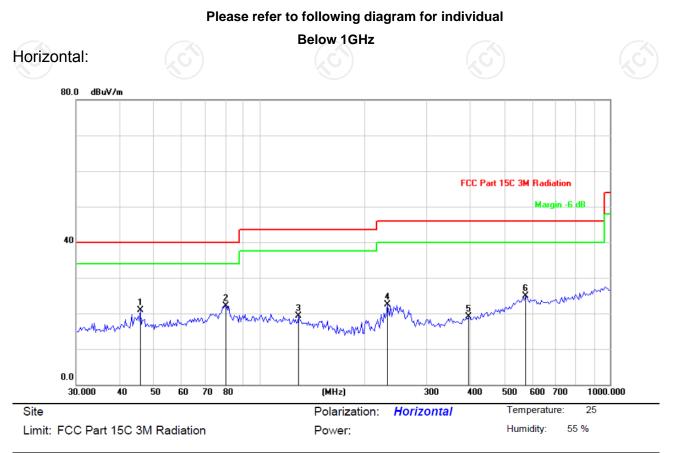
	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 27, 2021
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2020
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 27, 2020
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 06, 2020
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	бу тст	RE-high-04	N/A	Sep. 08, 2020
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Page 29 of 51

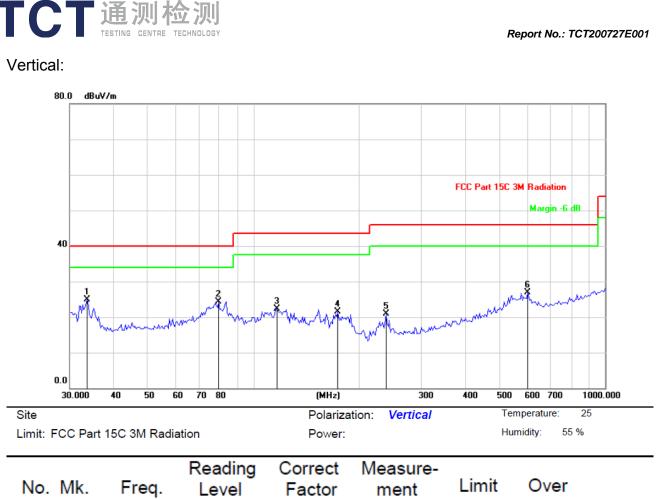
### 6.7.3. Test Data

TCT通测检测 TCT通测检测



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		45.7333	31.40	-10.58	20.82	40.00	-19.18	peak
2	*	80.2383	38.99	-16.88	22.11	40.00	-17.89	peak
3		129.3923	34.80	-15.57	19.23	43.50	-24.27	peak
4		231.8531	35.74	-13.30	22.44	46.00	-23.56	peak
5		395.5071	28.06	-8.98	19.08	46.00	-26.92	peak
6		573.9882	30.99	-6.10	24.89	46.00	-21.11	peak

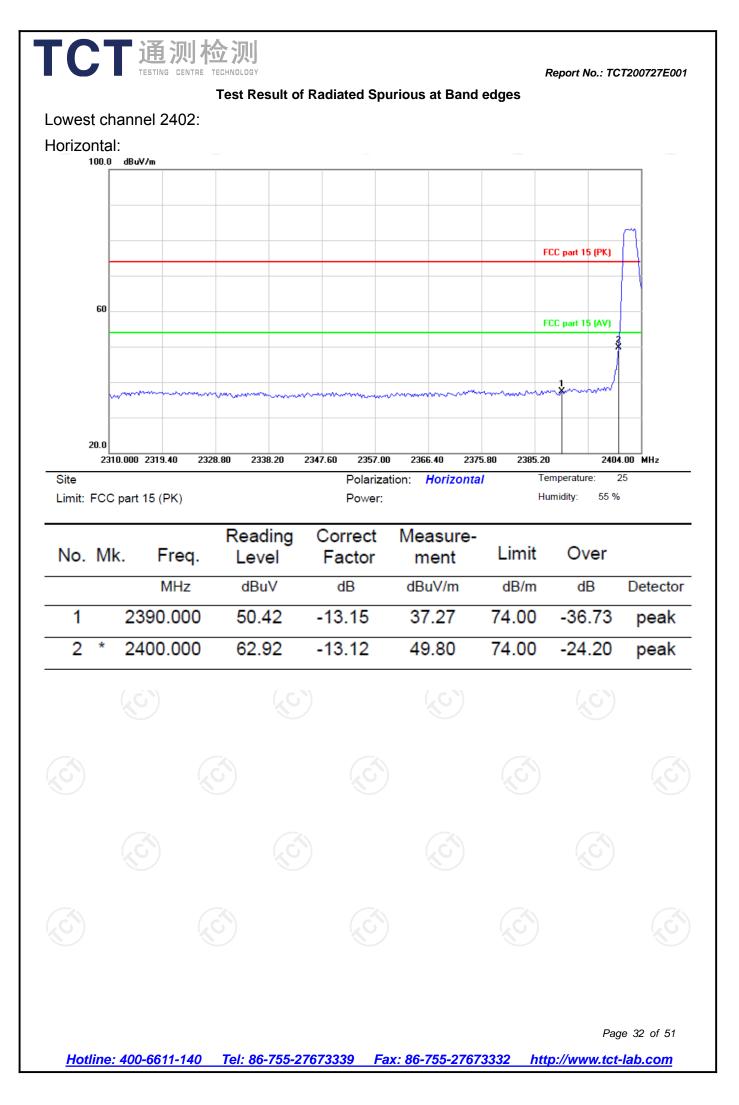
Report No.: TCT200727E001

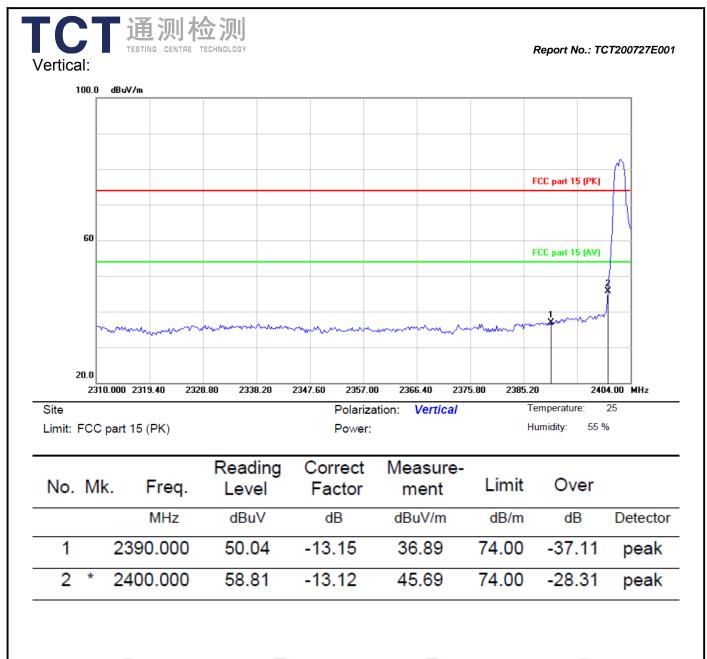


	Over	Limit	ment	Factor	Level	k. Freq.	No. Mk
Detector	dB	dB/m	dBuV/m	dB	dBuV	MHz	
peak	-15.04	40.00	24.96	-11.16	36.12	33.5700	1 *
peak	-15.62	40.00	24.38	-16.99	41.37	79.6764	2
peak	-21.24	43.50	22.26	-11.02	33.28	116.4476	3
peak	-22.05	43.50	21.45	-15.50	36.95	173.8146	4
peak	-25.16	46.00	20.84	-13.10	33.94	238.4626	5
peak	-19.18	46.00	26.82	-5.42	32.24	602.9287	6

- **Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported
  - 2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Lowest channel) was submitted only.
  - 3. Freq. = Emission frequency in MHz
    - Measurement  $(dB\mu V/m) = Reading \, level \, (dB\mu V) + Corr. Factor (dB)$
    - Correction Factor= Antenna Factor + Cable loss Pre-amplifier
    - *Limit*  $(dB\mu V/m) = Limit$  stated in standard
    - Margin (dB) = Measurement (dB $\mu$ V/m) Limits (dB $\mu$ V/m)
    - Any value more than 10dB below limit have not been specifically reported
    - $^{\ast}$  is meaning the worst frequency has been tested in the test frequency range

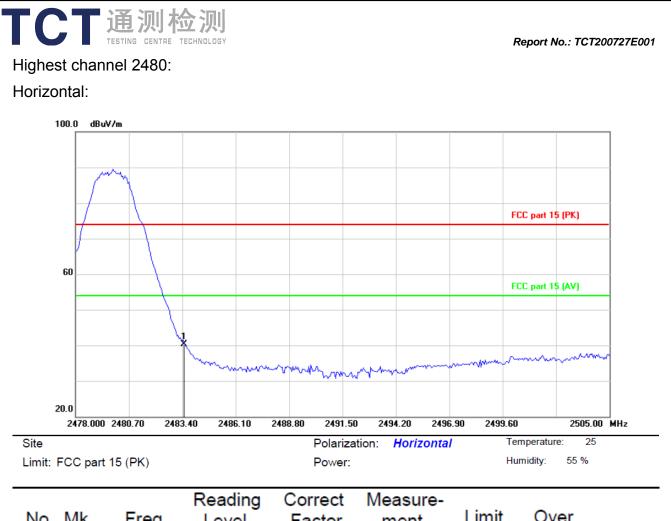
Page 31 of 51







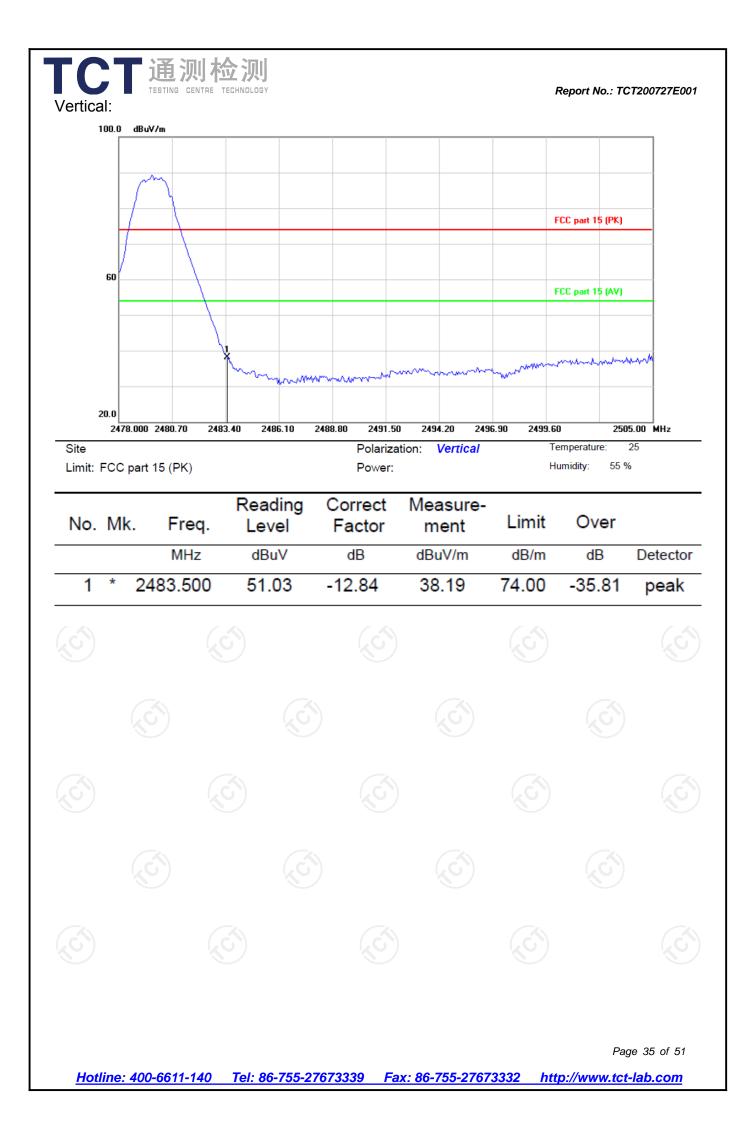
Page 33 of 51



	No.	Mł	k. Freq.			ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	
-	1	*	2483.500	53.19	-12.84	40.35	74.00	-33.65	peak	



Page 34 of 51



#### Above 1GHz

Low chann	el: 2402 IV	IHZ							
Frequency	Ant. Pol.	Peak	AV	Correction		on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV  (dBµV/m)		(dBµV/m)	(dĔ)
4804	Н	45.82		0.66	46.48		74	54	-7.52
7206	Н	36.75		9.50	46.25		74	54	-7.75
	Н								
4804	V	44.97		0.66	45.63	×	74	54	-8.37
7206	V	35.24	-4,0	9.50	44.74	<u>, C <del>-</del></u>	74	54	-9.26
	V					<u> </u>			

#### Middle channel: 2440 MHz

**通测检测** TESTING CENTRE TECHNOLOGY

. . . . . . . . .

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	Н	43.48		0.99	44.47	 74	54	-9.53
7320	Н	34.15		9.87	44.02	 74	54	-9.98
	Н			·	/	 		
			KO.					
4880	V	44.68		0.99	45.67	 74	54	-8.33
7320	V	34.09		9.87	43.96	 74	54	-10.04
	V					 		

#### High channel: 2480 MHz

requency	Ant Pol	Peak	AV	Correction	Emission Level		Peak limit	t AV limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)		(dBu)/m		(dB)
4960	H	46.34		1.33	47.67		74	54	-6.33
7440	H	37.17		10.22	47.39	<u> </u>	74	54	-6.61
	Н								
4960	V	47.02		1.33	48.35		74	54	-5.65
7440	V	36.56		10.22	46.78		74	54	-7.22
	V				J				· · · · · · · · · · · · · · · · · · ·

#### Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "----"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. All the restriction bands are compliance with the limit of 15.209.

