CC ID						
	2AQRM-A67L					
est Report No:	TCT241031E010	$\left(\mathbf{C}^{*}\right)$				
Date of issue:	Dec. 11, 2024					
esting laboratory:	SHENZHEN TONGCE TESTING	SHENZHEN TONGCE TESTING LAB				
esting location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China					
Applicant's name: :	FOXX Development Inc.					
\ddress:	3480 Preston Ridge Road, Suite	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA				
lanufacturer's name :	FOXX Development Inc.					
ddress:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA					
Standard(s):	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020					
Product Name:	Smart Phone					
rade Mark :	FOXXD, FOXX, MIRO					
Iodel/Type reference :	A67L	NO NO	/			
Rating(s):	Rechargeable Li-ion Battery DC Power Adapter: Model: Foxx-22 Input: AC 100-240V, 50/60Hz, 0 Output: DC 5V, 2000mA		Ś			
Date of receipt of test item	Oct. 31, 2024	Ś)			
Date (s) of performance of est:	Oct. 31, 2024 ~ Dec. 09, 2024		. <i>C</i> ks			
ested by (+signature) :	Aaron MO					
Check by (+signature) :	Beryl ZHAO					
Approved by (+signature): General disclaimer:	Tomsin Tomsin 33					

test results in the report only apply to the tested sample.

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TCT 通测检测 TESTING CENTRE TECHNOLOGY

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1. General Product Information

1.1. EUT description

Product Name:	Smart Phone	
Model/Type reference:	A67L	
Sample Number:	TCT241031E009-0101	2.
Bluetooth Version:	V4.2 (This report is for BLE)	
Operation Frequency:	2402MHz~2480MHz	
Channel Separation:	2MHz	
Data Rate:	LE 1M PHY	
Number of Channel:	40	
Modulation Type:	GFSK	\mathcal{O}
Antenna Type:	PIFA Antenna	
Antenna Gain:	-3.21dBi	
Rating(s):	Rechargeable Li-ion Battery DC 3.85V Power Adapter: Model: Foxx-22 Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2000mA	9

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

1.2. Model(s) list

None.

1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
<u>О</u>	0	J	(<i>D</i>		<u> </u>	
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Channel 0, 19 & 39 have been tested.							

Report No.: TCT241031E010



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.

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3. General Information

3.1. Test environment and mode

Operating Environment:					
Condition	Conducted Emission	Radiated Emission			
Temperature:	24.6 °C	25.2 °C			
Humidity:	51 % RH	48 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Software:		·			
Software Information:	Engineering mode				
Power Level:	Default				
Test Mode:	•				
Engineer mode:	Keep the EUT in continuou	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.

3.2. Description of Support Units

Engineer mode:

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
\bigcirc ,				1

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.



4. Facilities and Accreditations

4.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab 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
- SHENZHEN TONGCE TESTING LAB
- CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339

4.3. 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	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB



5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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, 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.

15.247(c) (1)(i) requirement:

(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.

E.U.T Antenna:

The Bluetooth antenna is PIFA antenna which permanently attached, and the best case gain of the antenna is -3.21dBi.



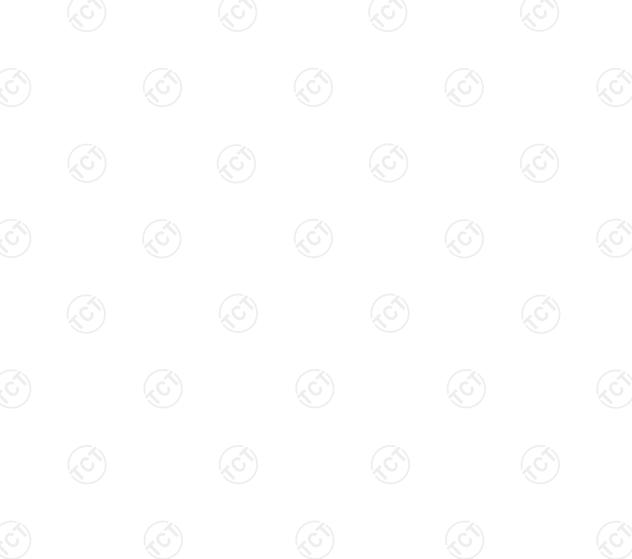
5.2. Conducted Emission

5.2.1. Test Specification

Limits: 0.15-0.5 66 to 56* 56 to 10 0.5-5 56 4 5-30 60 5 Reference Plane Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Image	FCC F	FCC Part15 C Section 15.207					
Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto Limits: Frequency range Limit (dBuV) (MHz) Quasi-peak Ave 0.15-0.5 66 to 56* 56 to 0.5-5 56 4 5-30 60 5 Reference Plane	ANSI	63.10:2020					
Limits: Frequency range Limit (dBuV) (MHz) Quasi-peak Ave 0.15-0.5 66 to 56* 56 to 0.5-5 56 4 5-30 60 5 Reference Plane Image: Colspan="2">ENT procedure: Reference Plane Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2">Colspan="2"	150 kł	150 kHz to 30 MHz					
Limits: Image: Constraint of the second	RBW=	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
Imits: Quasi-peak Ave 0.15-0.5 66 to 56* 56 to 0.5-5 56 4 5-30 60 5 Reference Plane Imit Colspan="2">Imit Colspan="2" Imit Colspan="2" Im	Fre	quency range	Limit (dBuV)			
0.5-5 56 4 5-30 60 5 Reference Plane 40cm 40cm Fest Setup: E.U.T AC power Fest table/Insulation plane EMI Filter Remark E.U.T AC power Remark E.U.T EMI Receiver EMI Receiver LISN Line Impedence Stabilization Network EMI Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter throug impedance stabilization network (L.I.S.N provides a 500hm/50uH coupling impedance measuring equipment. 2. The peripheral devices are also connected to power through a LISN that provides a 50oh coupling impedance with 500hm termination. refer to the block diagram of the test se photographs). 3. Both sides of A.C. line are checked for m conducted interference. In order to find the m emission, the relative positions of equipment at the interface cables must be changed according to the interface cables must be changed according to the interface cables must be changed according to the interface cables must be changed according the interface cables must be changed acc		(MHz)	Quasi-peak	Average			
Test Setup: Ference Plane Test Setup: Image: Charging + Transmitting Mode Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter throug impedance stabilization network (L.I.S.N provides a 500hm/50uH coupling impedance measuring equipment. 2. The peripheral devices are also connected to power through a LISN that provides a 500hm/50uH coupling impedance stabilization. 2. The peripheral devices are also connected to power through a LISN that provides a 500hm/s0uH coupling impedance stabilization. 2. The peripheral devices are also connected to power through a LISN that provides a 500hm/s0uH coupling impedance measuring equipment. 3. Both sides of A.C. line are checked for m conducted interference. In order to find the m emission, the relative positions of equipment at the interface cables must be changed accordinates.		0.15-0.5	66 to 56*	56 to 46*			
Test Setup: Reference Plane Image: Test Setup: Image: Test table/Insulation plane 80cm Image: Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter throug impedance stabilization network (L.I.S.N provides a 500hm/50uH coupling impedance measuring equipment. 2. The peripheral devices are also connected to power through a LISN that provides a 500hm (S00hm termination.) refer to the block diagram of the test se photographs). 3. Both sides of A.C. line are checked for m conducted interference. In order to find the m emission, the relative positions of equipment at the interface cables must be changed accomposition.		0.5-5	56	46			
Test Setup: Image: Constrained in the set of the set		5-30	60	50			
Test Setup: Image: Test table/Insulation plane 80cm Image: Filter Ac power Remark: E.U.T. AC power Image: Filter Ac power Image: Stable/Insulation plane Remark: EMI EMI EMI Image: Stable/Insulation plane Remark: EMI EMI EMI EMI Test Mode: Charging + Transmitting Mode 1. The E.U.T is connected to an adapter through impedance stabilization network (L.I.S.N provides a 50ohm/50uH coupling impedance measuring equipment. 2. The peripheral devices are also connected to power through a LISN that provides a 50oh coupling impedance with 50ohm termination. refer to the block diagram of the test se photographs). 3. Both sides of A.C. line are checked for m conducted interference. In order to find the m emission, the relative positions of equipment at the interface cables must be changed according to the interface c		Reference Plane					
 Test Procedure: Test Procedure: Test Procedure: The peripheral devices are also connected to the power through a LISN that provides a 500hm termination. refer to the block diagram of the test se photographs). Both sides of A.C. line are checked for m conducted interference. In order to find the m emission, the relative positions of equipment a the interface cables must be changed accord 	est Setup: E.U.T AC power 80cm LISN Test table/Insulation plane Fil Remarkc E.U.T. Equipment Under Test EMI LISN: Line Impedence Stabilization Network						
 Test Procedure: impedance stabilization network (L.I.S.N provides a 50ohm/50uH coupling impedance measuring equipment. The peripheral devices are also connected to power through a LISN that provides a 50oh coupling impedance with 50ohm termination. refer to the block diagram of the test se photographs). Both sides of A.C. line are checked for m conducted interference. In order to find the m emission, the relative positions of equipment a the interface cables must be changed accertain. 	Charg	Charging + Transmitting Mode					
ANSI C03.10.2020 OII COIIducteu measureme	impore prove mea 2. The pow coup refe pho 3. Both cone emis the	 impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and 					
Test Result: PASS							

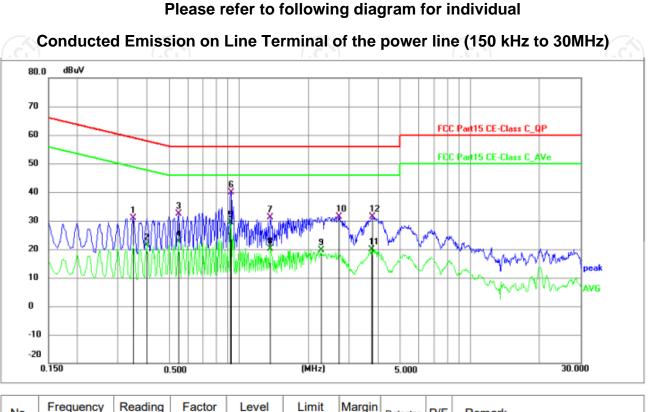
5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer Model		Serial Number	Calibration Due		
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025		
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025		
Attenuator	N/A	10dB	164080	Jun. 26, 2025		
Line-5	тст	CE-05	/	Jun. 26, 2025		
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1		



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5.2.3. Test data



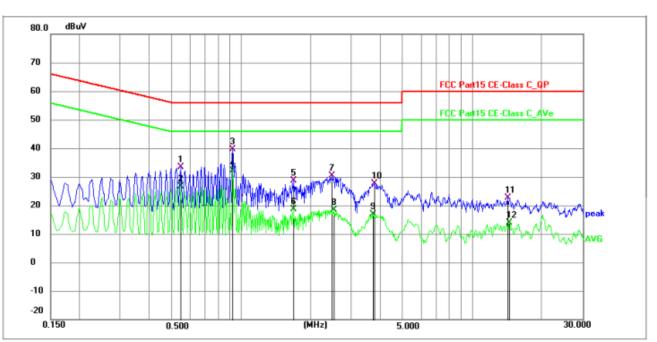
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3480	20.29	10.57	30.86	59.01	-28.15	QP	Р	
2	0.3975	10.84	10.57	21.41	47.91	-26.50	AVG	Р	
3	0.5460	21.68	10.60	32.28	56.00	-23.72	QP	Р	
4	0.5460	12.03	10.60	22.63	46.00	-23.37	AVG	Р	
5	0.9193	18.62	10.67	29.29	46.00	-16.71	AVG	Р	
6 *	0.9240	29.10	10.67	39.77	56.00	-16.23	QP	Р	
7	1.3691	20.55	10.66	31.21	56.00	-24.79	QP	Р	
8	1.3691	9.51	10.66	20.17	46.00	-25.83	AVG	Р	
9	2.2694	8.84	10.67	19.51	46.00	-26.49	AVG	Р	
10	2.7105	20.73	10.67	31.40	56.00	-24.60	QP	Р	
11	3.7454	9.21	10.65	19.86	46.00	-26.14	AVG	Р	
12	3.7860	20.67	10.66	31.33	56.00	-24.67	QP	Р	
X		N.)			X X X X

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

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

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Conducted Emission on Neutral Terminal of th	ne power line (150 kHz to 30MHz)
--	----------------------------------

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.5460	22.88	10.60	33.48	56.00	-22.52	QP	Р	
2	0.5460	16.04	10.60	26.64	46.00	-19.36	AVG	Р	
3	0.9193	28.85	10.67	39.52	56.00	-16.48	QP	Р	
4 *	0.9193	21.58	10.67	32.25	46.00	-13.75	AVG	Р	
5	1.6935	17.85	10.67	28.52	56.00	-27.48	QP	Р	
6	1.6935	7.98	10.67	18.65	46.00	-27.35	AVG	Р	
7	2.4810	19.75	10.67	30.42	56.00	-25.58	QP	Р	
8	2.5304	7.80	10.67	18.47	46.00	-27.53	AVG	Р	
9	3.7364	6.14	10.65	16.79	46.00	-29.21	AVG	Р	
10	3.7635	16.96	10.66	27.62	56.00	-28.38	QP	Р	
11	14.2393	11.81	10.82	22.63	60.00	-37.37	QP	Р	
12	14.5091	3.20	10.79	13.99	50.00	-36.01	AVG	Р	

Note1:

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 μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak

AVG =average

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

Note2: Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Highest channel) was submitted only.

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5.3. Conducted Output Power

5.3.1. 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 3.1
Test Procedure:	 Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

5.3.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/	1	/

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5.4. Emission Bandwidth

5.4.1. 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 3.1
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/	3	

5.5. Power Spectral Density

5.5.1. 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:	
Test Mode:	Refer to item 3.1
	1. The RF output of EUT was connected to the spectrum
Test Procedure:	 The RF output of EoT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. 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) 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. Measure and record the results in the test report.
Test Result:	PASS

5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/	/	/

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.247 (d)	, ć
Test Method:	KDB 558074 D01 v05r0	02	e
Limit:	frequency band, the non-restricted bands sh 30dB relative to the ma RF conducted measu which fall in the restrict	width outside of the a emissions which fa nall be attenuated at lea aximum PSD level in 10 rement and radiated ted bands, as defined i omply with the radiated on 15.209(a).	II in the st 20 dB / 00 kHz by emissions in Section
Test Setup:	Spectrum Analyzer	EUT)
Test Mode:	Refer to item 3.1	(\mathcal{G})	(c
Test Procedure:	analyzer by RF cab compensated to the 2. Set to the maximum EUT transmit contin 3. Set RBW = 100 kHz, Unwanted Emission bandwidth outside of shall be attenuated maximum in-band p	VBW=300 kHz, Peak D is measured in any 100 of the authorized frequer by at least 20 dB relativ eak PSD level in 100 kH ducted output power pro	rement. le the Detector. kHz ncy band e to the Hz when
	power limits based of a time interval, the a paragraph shall be 3 15.247(d). 4. Measure and record 5. The RF fundamental	the results in the test re frequency should be ex- in the operating freque	nducted aging over ler this per port. ccluded



5.6.2. Test Instruments

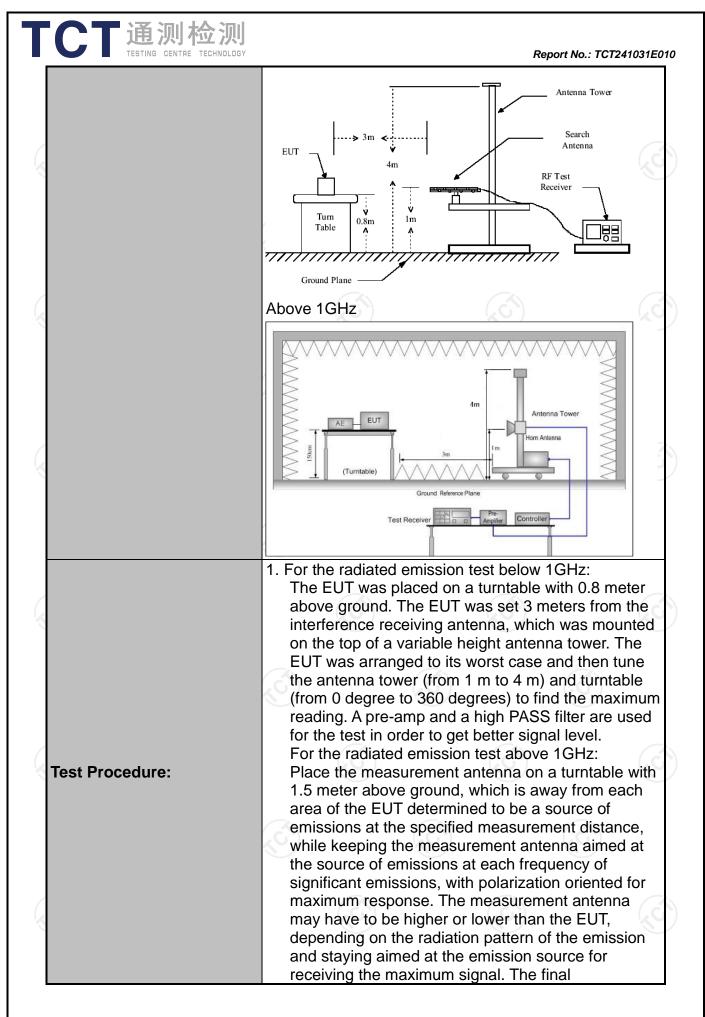
-	Name	Manufa	cturer	Model No.	Seria	al Number	Calibratio	on Due
Spectrum Analyzer Test Software		Agil	ent	N9020A	MY5	0101018	Jun. 26,	2025
		TST Pass		1		1	/	

5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15	C Sectio	n 15.209			K
Test Method:	ANSI C63.10):2020				
Frequency Range:	9 kHz to 25 (GHz				
Measurement Distance:	3 m		\mathbf{O}		S.	
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Refer to item	1 3.1	(6		(
	Frequency	Detector	r RBW	VBW	Remark	K
	9kHz- 150kHz	Quasi-pea		1kHz	Quasi-pea Value	
Receiver Setup:	150kHz- 30MHz	Quasi-pea	ak 9kHz	30kHz	Quasi-pea Value	ak
	30MHz-1GHz	Quasi-pea	ak 120KHz	300KHz	Quasi-pea Value	ak
	Above 1GHz	Peak	1MHz	3MHz	Peak Valu	ie
		Peak	1MHz	10Hz	Average Va	lue
	Frequer	ісу	Field Str (microvolts	-	Measurement Distance (meters	
	0.009-0.4	490	2400/F(
	0.490-1.7	705	24000/F(KHz)		30	
	1.705-30		30		30	
	30-88		100		3	
1 :	88-216		150		3	
Limit:	216-960 Above 960		200 500		3	-(
	Frequency Above 1GHz	(mici	eld Strength rovolts/meter) 500 5000	Measurer Distan (meter 3 3	ce Detec	ige
	For radiated	emissior stance = 3m	ns below 30	OMHz	Computer	Ŕ
Test setup:	EUT 0.8m EUT Turn table Receiver					
		1	nd Plane		Receiver	



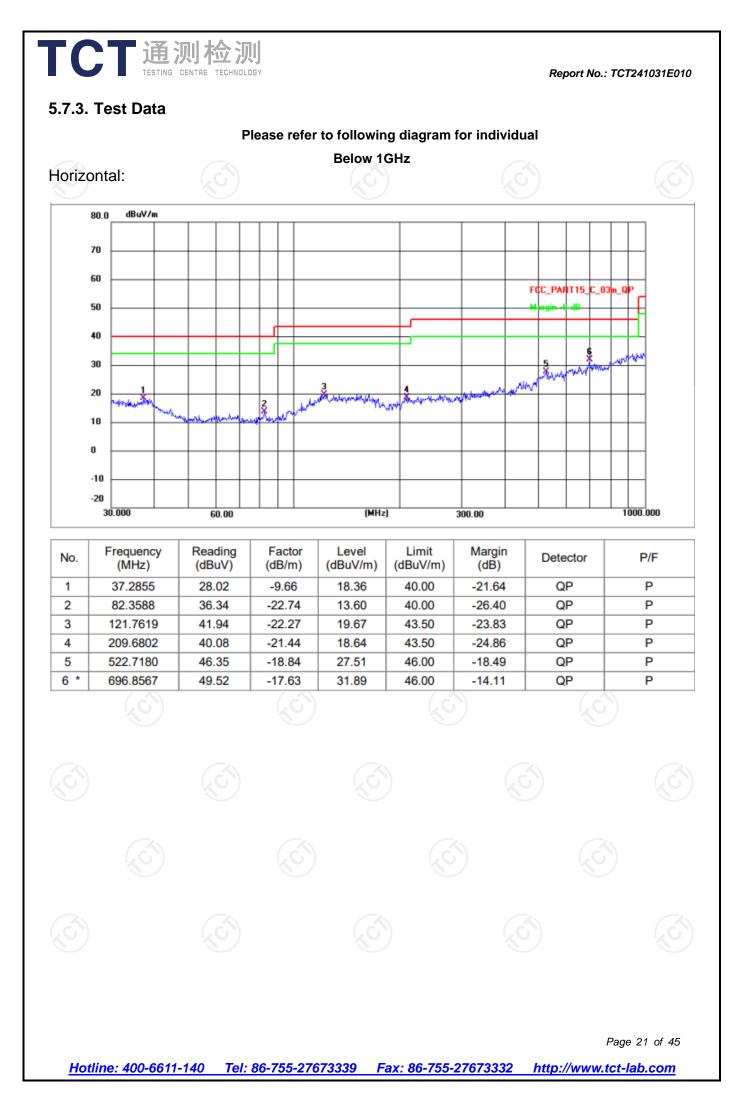
CT通测检测 TESTING CENTRE TECHNOLOGY	Report No.: TCT241031E
	 measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, 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. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 3.1 for details
Test results:	PASS

5.7.2. Test Instruments

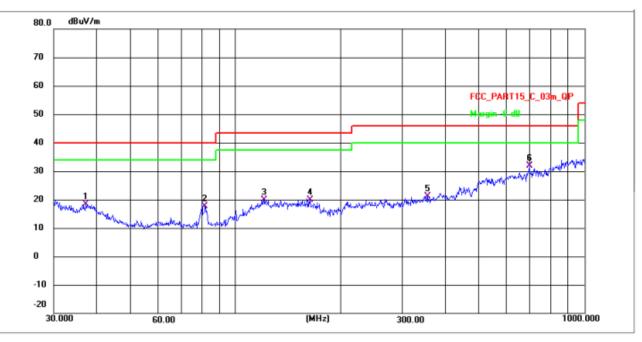
Radiated Emission Test Site (966)							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025			
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025			
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025			
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025			
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025			
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025			
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025			
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025			
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025			
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025			
Coaxial cable	SKET	RE-03-M) /	Jun. 26, 2025			
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025			
Coaxial cable	SKET	RE-04-D	1	Jun. 26, 2025			
Coaxial cable	SKET	RE-04-M	R	Jun. 26, 2025			
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025			
Antenna Mast	Keleto	RE-AM	1				
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2				

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Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	37.2855	28.07	-9.66	18.41	40.00	-21.59	QP	Р
2	81.6400	27.05	-9.31	17.74	40.00	-22.26	QP	Р
3	120.4877	42.11	-22.28	19.83	43.50	-23.67	QP	Р
4	163.4681	41.68	-21.88	19.80	43.50	-23.70	QP	Р
5	354.1831	41.45	-20.20	21.25	46.00	-24.75	QP	Р
6 *	696.8567	49.52	-17.63	31.89	46.00	-14.11	QP	Р
		(.c.)		(.6)		(.0		(.C.)

XV.

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 (Highest channel) was submitted only.

 Freq. = Emission frequency in MHz Measurement (dBμV/m) = Reading level (dBμV) + Corr. Factor (dB) Correction Factor= Antenna Factor + Cable loss – Pre-amplifier Limit (dBμV/m) = Limit stated in standard

Margin (dB) = Measurement (dB μ V/m) – Limits (dB μ V/m)

* is meaning the worst frequency has been tested in the test frequency range

Test Result of Radiated Spurious at Band edges													
		•	•										
Test Cha	nnel: Lov	vest channe	l, Test Polar	ization: Ve	rtical								
Reading	Factor	Level	Limit	Marging	Detector	Result							
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)									
67.46	-16.45	51.01	74	-22.99	Peak	Pass							
66.34	-15.86	50.48	74	-23.52	Peak	Pass							
67.47	-15.82	51.65	74	-22.35	Peak	Pass							
Test Chan	nel: Lowe	est channel,	Test Polariz	ation: Hori	zontal								
Reading	Factor	Level	Limit	Marging	Detector	Result							
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)									
67.78	-16.45	51.33	74	-22.67	Peak	Pass							
66.66	-15.86	50.8	74	-23.2	Peak	Pass							
67.79	-15.82	51.97	74	-22.03	Peak	Pass							
Test Chai	nnel: Hig	hest channe	I, Test Polar	ization: Ve	rtical								
Reading	Factor	Level	Limit	Marging	Detector	Result							
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)									
68.84	-16.6	52.24	74	-21.76	Peak	Pass							
67.12	-16.45	50.67	74	-23.33	Peak	Pass							
Test Chan	nel: High	est channel,	Test Polariz	ation: Hor	izontal								
Reading	Factor	Level	Limit	Marging	Detector	Result							
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)									
68.66	-16.6	52.06	74	-21.94	Peak	Pass							
66.73	-16.45	50.28	74	-23.72	Peak	Pass							
	Test Cha Reading (dBμV) 67.46 66.34 67.47 Test Chan Reading (dBμV) 67.78 66.66 67.78 66.66 67.79 Test Chan Reading (dBμV) 68.84 67.12 Test Chan Reading (dBμV) 68.84 67.12 Test Chan Reading (dBμV) 68.84 67.12 Test Chan Reading (dBμV)	Test Charmel: Low Reading Factor (dBµV) (dB) 67.46 -16.45 66.34 -15.86 67.47 -15.82 Test Charmel: Low 10 (dBµV) (dB) 66.34 -15.82 67.47 -15.82 Test Charmel: Low 10 (dBµV) (dB) 66.66 -15.86 67.78 -16.45 66.66 -15.86 67.79 -15.82 Test Charmel: Low 10 66.66 -15.86 67.79 -15.82 Reading Factor (dBµV) (dB) 68.84 -16.6 67.12 -16.45 68.84 -16.6 67.12 -16.45 Reading Factor (dBµV) (dB) 68.84 -16.6 67.12 -16.45 Reading Factor (dBµV) (dB) </td <td>Test Wode: 1 Mbp Test Charrel: Lowest channel Reading Factor Level (dBµV) (dB) (dBµV/m) 67.46 -16.45 51.01 66.34 -15.86 50.48 67.47 -15.82 51.65 Test Charrel: Lowel 66.34 -15.82 51.65 Test Charrel: Lowel (dBµV) (dB) (dBµV/m) 67.78 -16.45 51.33 66.66 -15.86 50.8 67.79 -15.82 51.97 Test Charrel: Hig-est Channel 408µV/m) 68.84 -16.6 52.24 (dBµV) (dB) (dBµV/m) 68.84 -16.6 52.24 67.12 -16.45 50.67 Test Charrel: Hig-est Channel (dBµV) (dB) (dBµV/m) 68.84 -16.6 52.06 (dBµV) (dB) (dBµV/m) 68.66 -16.6 52.06</td> <td>Test Wode: 1 Mbby UE 1M PH Test Charnel: Lowest channel, Test Polari Reading Factor Level Limit (dBµV) (dB) (dBµV/m) (dBµV/m) 67.46 -16.45 51.01 74 66.34 -15.86 50.48 74 67.47 -15.82 51.65 74 Test Charrel: Lowest channel, Test Polariz Reading Factor Level Limit (dBµV) (dB) (dBµV/m) (dBµV/m) 67.78 -16.45 51.33 74 66.66 -15.86 50.8 74 67.79 -15.82 51.97 74 66.66 -15.86 50.8 74 67.79 -15.82 51.97 74 Test Charrel: Higher diameter (dBµV) (dB) (dBµV/m) (dBµV/m) 68.84 -16.6 52.24 74 67.12 -16.45 50.67 74 Test Charrel: Higher diameter</td> <td>Test Hode: 1 Mbps (LE 1M PHY) Test Channel: Lowest channel, Test Polarization: Verent Reading Factor Level Limit Marging (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) (dB) 67.46 -16.45 51.01 74 -22.99 66.34 -15.86 50.48 74 -23.52 67.47 -15.82 51.65 74 -22.35 Test Channel: Lowest channel, Test Polarization: Hori Reading Factor Level Limit Marging (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 66.66 -15.86 51.33 74 -22.67 66.66 -15.86 50.8 74 -23.2 67.79 -15.82 51.97 74 -22.03 Test Channel: Higher Marging (dBµV) (dB) (dBµV/m) (dB) 68.84 -16.6 52.24 74 -21.76 67.12 -16.45 50.67 74 -</td> <td>Test Mode: 1 Mbp: LE 1M PHY: Test Channel: Lowet channel, Test Polarization: Vertical Reading Factor Level Limit Marging Detector (dBµV) (dB) (dBµV/m) (dBµ (dB) (dBµV/m) (dB) 67.46 -16.45 51.01 74 -22.99 Peak 66.34 -15.86 50.48 74 -23.52 Peak 67.47 -15.82 51.65 74 -22.35 Peak 67.47 -16.45 51.33 74 -22.67 Peak 66.66 -15.86 50.8 74 -23.2 Peak 67.79 -15.82 51.97 74 -22.03 Peak 67.79 -15.82 51.97 74 -23.33</td>	Test Wode: 1 Mbp Test Charrel: Lowest channel Reading Factor Level (dBµV) (dB) (dBµV/m) 67.46 -16.45 51.01 66.34 -15.86 50.48 67.47 -15.82 51.65 Test Charrel: Lowel 66.34 -15.82 51.65 Test Charrel: Lowel (dBµV) (dB) (dBµV/m) 67.78 -16.45 51.33 66.66 -15.86 50.8 67.79 -15.82 51.97 Test Charrel: Hig-est Channel 408µV/m) 68.84 -16.6 52.24 (dBµV) (dB) (dBµV/m) 68.84 -16.6 52.24 67.12 -16.45 50.67 Test Charrel: Hig-est Channel (dBµV) (dB) (dBµV/m) 68.84 -16.6 52.06 (dBµV) (dB) (dBµV/m) 68.66 -16.6 52.06	Test Wode: 1 Mbby UE 1M PH Test Charnel: Lowest channel, Test Polari Reading Factor Level Limit (dBµV) (dB) (dBµV/m) (dBµV/m) 67.46 -16.45 51.01 74 66.34 -15.86 50.48 74 67.47 -15.82 51.65 74 Test Charrel: Lowest channel, Test Polariz Reading Factor Level Limit (dBµV) (dB) (dBµV/m) (dBµV/m) 67.78 -16.45 51.33 74 66.66 -15.86 50.8 74 67.79 -15.82 51.97 74 66.66 -15.86 50.8 74 67.79 -15.82 51.97 74 Test Charrel: Higher diameter (dBµV) (dB) (dBµV/m) (dBµV/m) 68.84 -16.6 52.24 74 67.12 -16.45 50.67 74 Test Charrel: Higher diameter	Test Hode: 1 Mbps (LE 1M PHY) Test Channel: Lowest channel, Test Polarization: Verent Reading Factor Level Limit Marging (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) (dB) 67.46 -16.45 51.01 74 -22.99 66.34 -15.86 50.48 74 -23.52 67.47 -15.82 51.65 74 -22.35 Test Channel: Lowest channel, Test Polarization: Hori Reading Factor Level Limit Marging (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 66.66 -15.86 51.33 74 -22.67 66.66 -15.86 50.8 74 -23.2 67.79 -15.82 51.97 74 -22.03 Test Channel: Higher Marging (dBµV) (dB) (dBµV/m) (dB) 68.84 -16.6 52.24 74 -21.76 67.12 -16.45 50.67 74 -	Test Mode: 1 Mbp: LE 1M PHY: Test Channel: Lowet channel, Test Polarization: Vertical Reading Factor Level Limit Marging Detector (dBµV) (dB) (dBµV/m) (dBµ (dB) (dBµV/m) (dB) 67.46 -16.45 51.01 74 -22.99 Peak 66.34 -15.86 50.48 74 -23.52 Peak 67.47 -15.82 51.65 74 -22.35 Peak 67.47 -16.45 51.33 74 -22.67 Peak 66.66 -15.86 50.8 74 -23.2 Peak 67.79 -15.82 51.97 74 -22.03 Peak 67.79 -15.82 51.97 74 -23.33							

Test Result of Radiated Spurious at Band edges



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Above 1GHz

Modulation	Туре:								
Low channe	el: 2402 MI	Hz							
Frequency (MHz)	Ant. Pol.H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	58.93		-9.51	49.42		74	54	-4.58
7206	Н	48.26		-1.41	46.85		74	54	-7.15
	Н							· · · ·	
	(\mathbf{G})		(.0		(.)		((c)	
4804	V	58.72	(-9.51	49.21	J	74	54	-4.79
7206	V	49.36		-1.41	47.95		74	54	-6.05
	V								
	-				X	(1		(A)

Middle char	nel: 2440	MHz)	K.)	X	\mathbf{O}		
Frequency (MHz)	Ant. Pol.H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	H.	57.52	(-9.36	48.16		74	54	-5.84
7320	H	48.23		-1.14	47.09	· · · ·	74	54	-6.91
	Н								
4880	V	57.97		-9.36	48.61	/	74	54	-5.39
7320	V	48.84		-1.14	47.70	🖌	74	54	-6.30
	V				/ <u></u>		<u> </u>		

High channel: 2480 MHz

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Ant	Peak	AV	Correction	Emissic	n Level	Peak	A)/ limit	Margin				
Pol.H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	limit (dBµV/m)	(dBµV/m)	(dB)				
Н	59.59		-9.20	50.39		74	54	-3.61				
Н	49.17		-0.96	48.21	/	74	54	-5.79				
Н			🔍)		5		<u>(</u>)				
			e									
V	58.54		-9.20	49.34		74	54	-4.66				
V	47.96		-0.96	47.00		74	54	-7.00				
V		(()								
	Ant. Pol.H/V H H H V V	Ant. Pol.H/V Peak reading (dBµV) H 59.59 H 49.17 H V 58.54 V 58.54	Ant. Pol.H/V Peak reading (dBμV) AV reading (dBμV) H 59.59 H 49.17 H V 58.54 V 47.96	Ant. Pol.H/V Peak reading (dBµV) AV reading (dBµV) Correction Factor (dB/m) H 59.59 -9.20 H 49.17 -0.96 H V 58.54 -9.20 V 47.96 -0.96	Ant. Pol.H/V Peak reading (dBµV) AV reading (dBµV) Correction Factor (dB/m) Emission Peak (dBµV/m) H 59.59 -9.20 50.39 H 49.17 -0.96 48.21 H V 58.54 -9.20 49.34 V 47.96 -0.96 47.00	Ant. Pol.H/V Peak reading (dBµV) AV reading (dBµV) Correction Factor (dB/m) Emission Level H 59.59 -9.20 50.39 H 49.17 -0.96 48.21 H V 58.54 -9.20 49.34 V 47.96 -0.96 47.00	Ant. Pol.H/V Peak reading (dBµV) AV reading (dBuV) Correction Factor (dB/m) Emission Level Peak (dBµV/m) Peak limit (dBµV/m) H 59.59 -9.20 50.39 74 H 49.17 -0.96 48.21 74 H 74 V 58.54 -9.20 49.34 74 V 47.96 -0.96 47.00 74	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				

Note:

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

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

Appendix A: Test Result of Conducted Test

1. Duty Cycle

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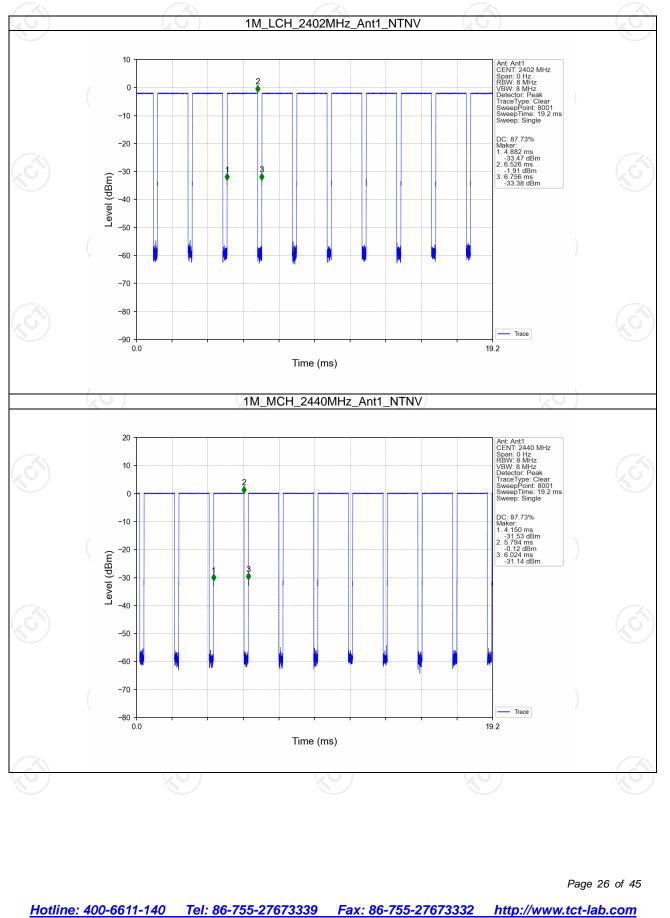
- 1.1 Test Result
- 1.1.1 Ant1

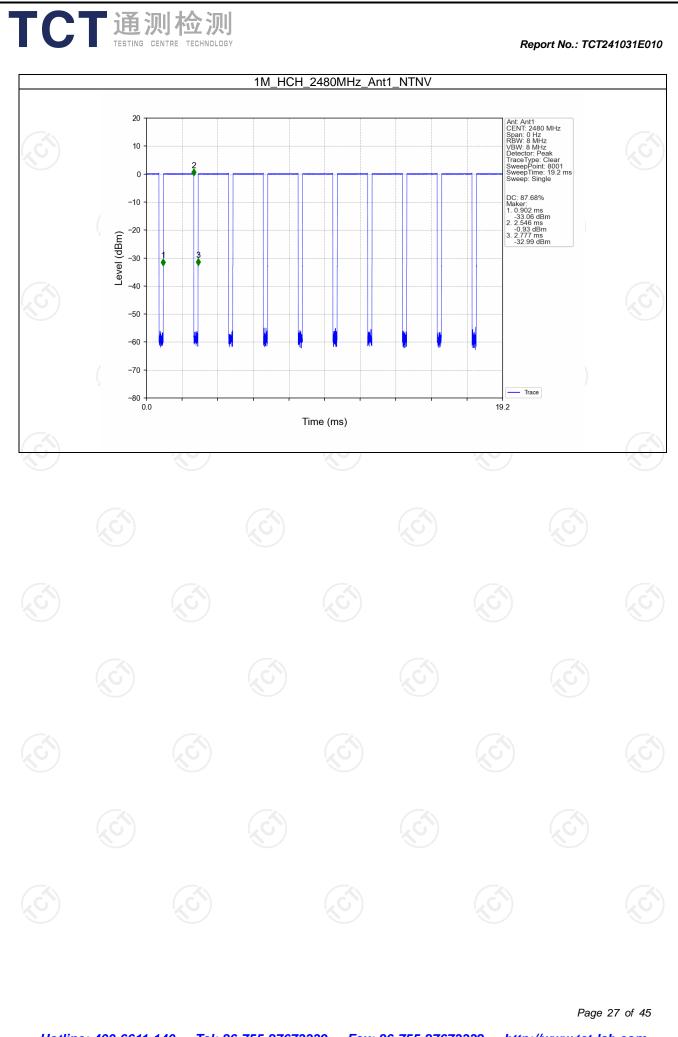
Ant1											
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC				
Туре	Туре	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)				
		2402	1.644	1.874	87.73	0.57	0.13				
1M	SISO	2440	1.644	1.874	87.73	0.57	0.13				
$\langle \mathbf{O} \rangle$		2480	1.644	1.875	87.68	0.57	0.13				





1.2.1 Ant1





2. Bandwidth

2.1 Test Result

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2.1.1 OBW

Mada	TX	Frequency		99% Occupied Ba	Verdict		
Mode Ty	Туре	(MHz)	ANT	Result	Limit	verdict	
		2402	1	1.020		Pass	
1M	SISO	2440	1	1.022	/	Pass	
		2480	1	1.022	/	Pass	

2.1.2 6dB BW

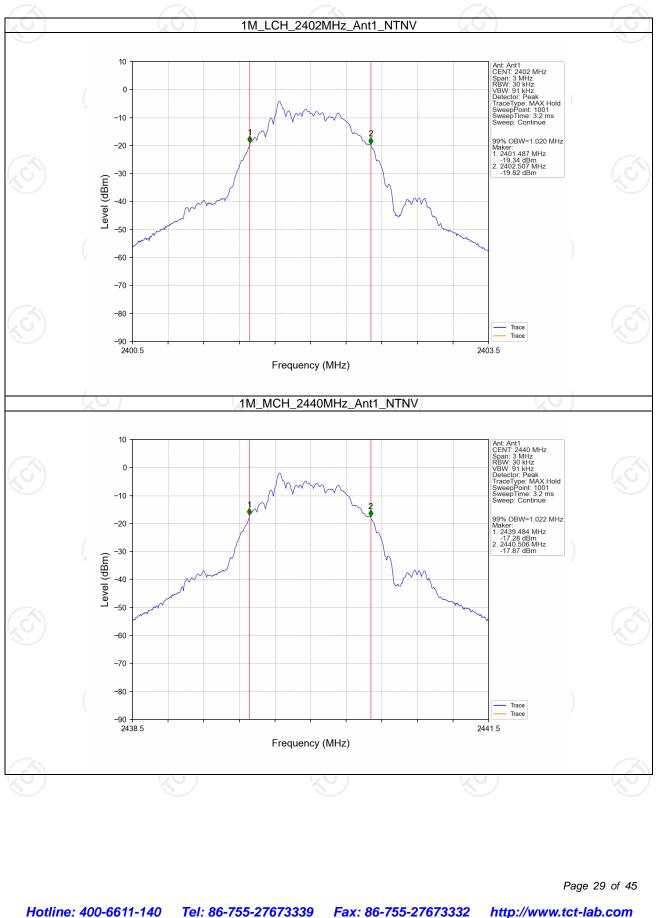
Mode	TX	Frequency	ANT	6dB Bandv	Vardiat	
wode	Туре	(MHz)	ANT	Result	Limit	Verdict
		2402	1	0.683	>=0.5	Pass
1M	SISO	2440	1	0.682	>=0.5	Pass
		2480	1	0.678	>=0.5	Pass



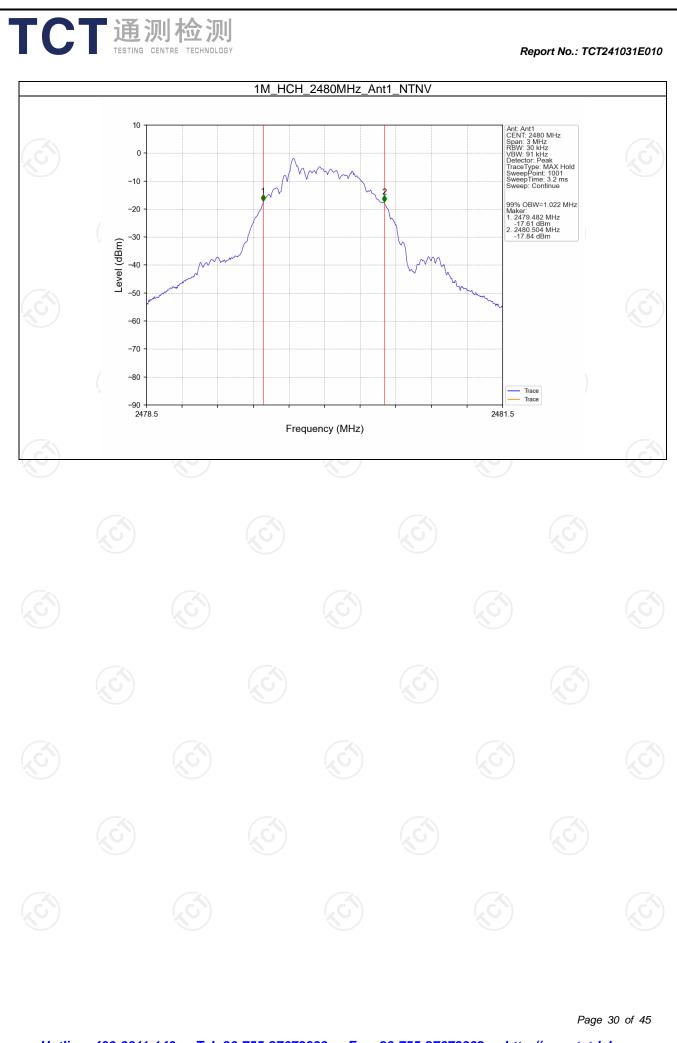


2.2 Test Graph

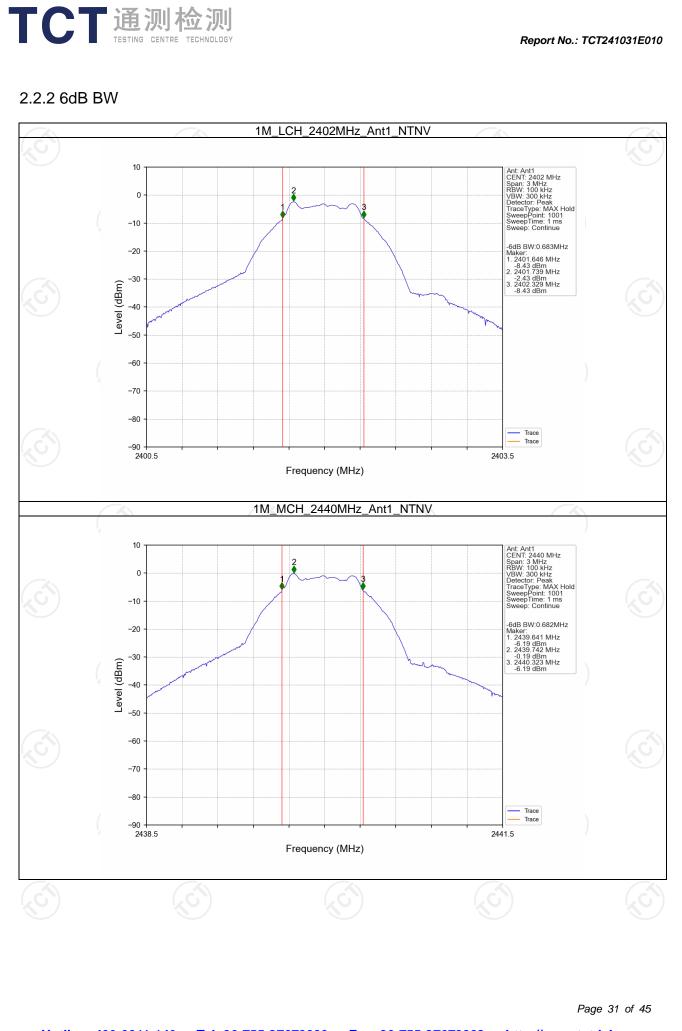
2.2.1 OBW

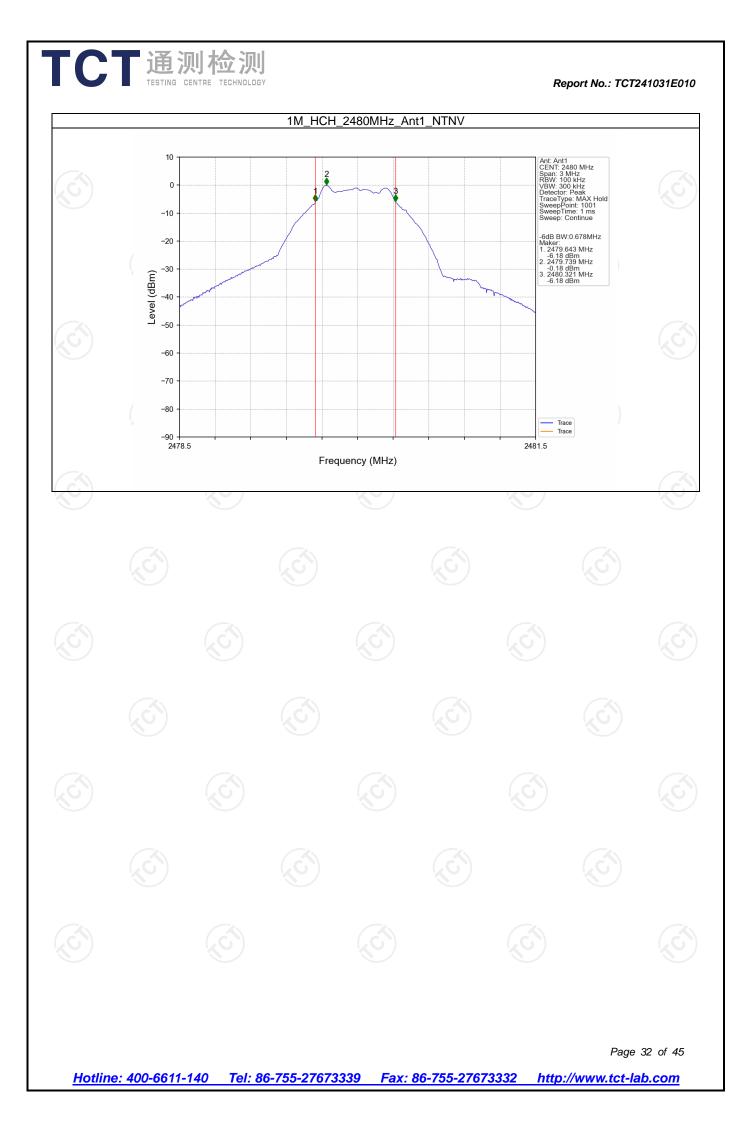


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3. Maximum Conducted Output Power

3.1 Test Result

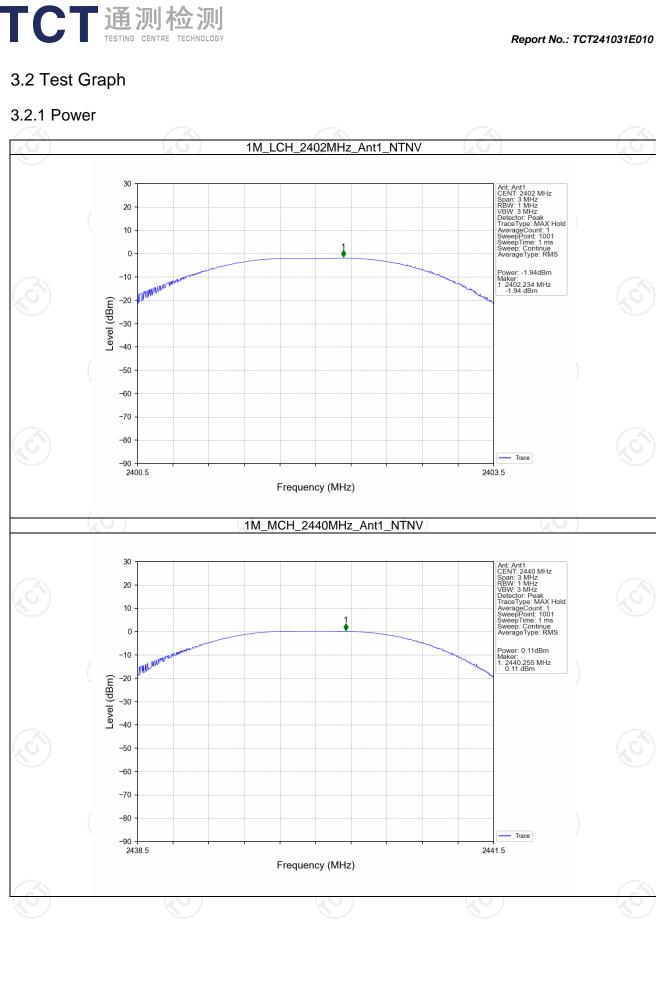
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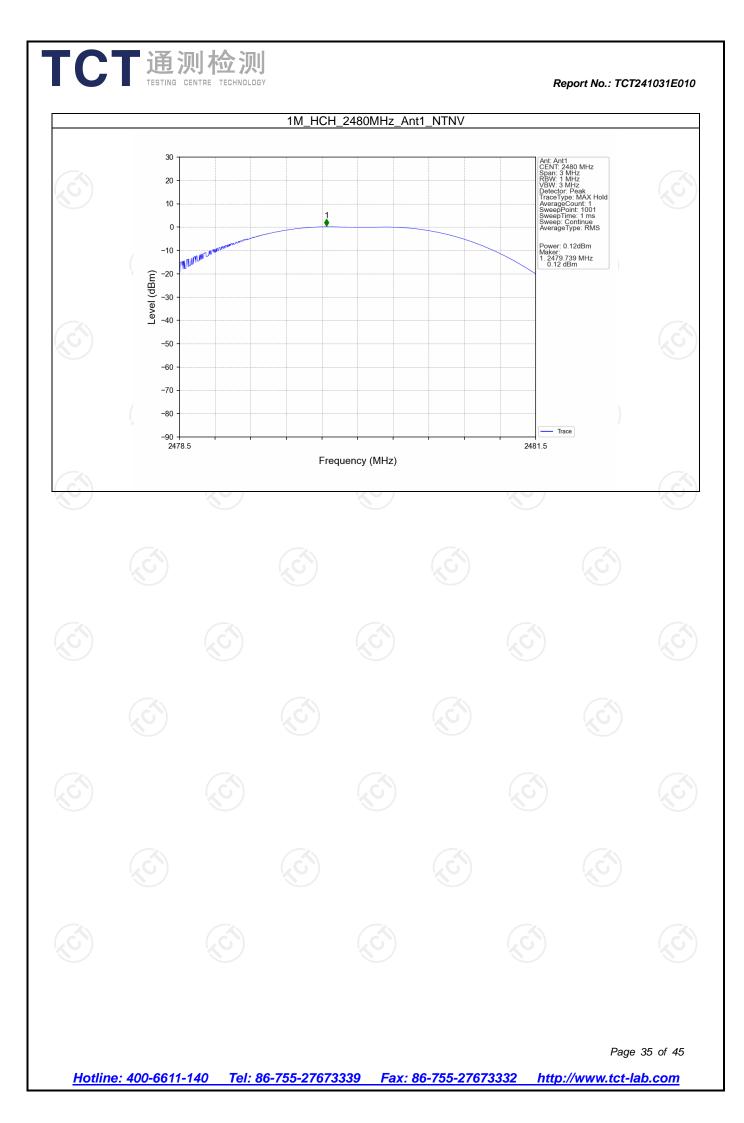


3.1.1 Power

1M			uency I IHz) 402	Maximum Peal ANT1 -1.94	Conducted C	output Power (Limit <=30	dBm)	Verdict Pass
	SISO	24	140 180	0.11 0.12		<=30 <=30		Pass Pass
NOTE 1: ANTEN	na Gain: Ant							



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4. Maximum Power Spectral Density

4.1 Test Result



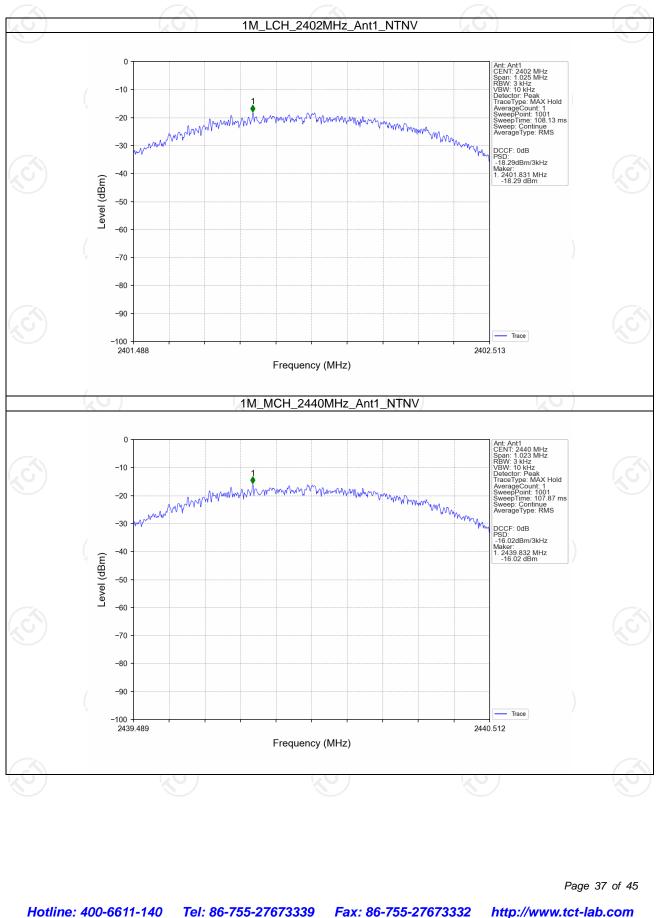
4.1.1 PSD

LimitVerdict<=8Pass<=8Pass<=8Pass<=8Pass	9 <=8 2 <=8	Ma AN -18. -16. -16.	Frequency (MHz) 2402 2440 2480	TX Type	S	Mode 1M
	<u></u>	Ś		Ant1: -3.21dBi;	enna Gain: A	Note1: Anter

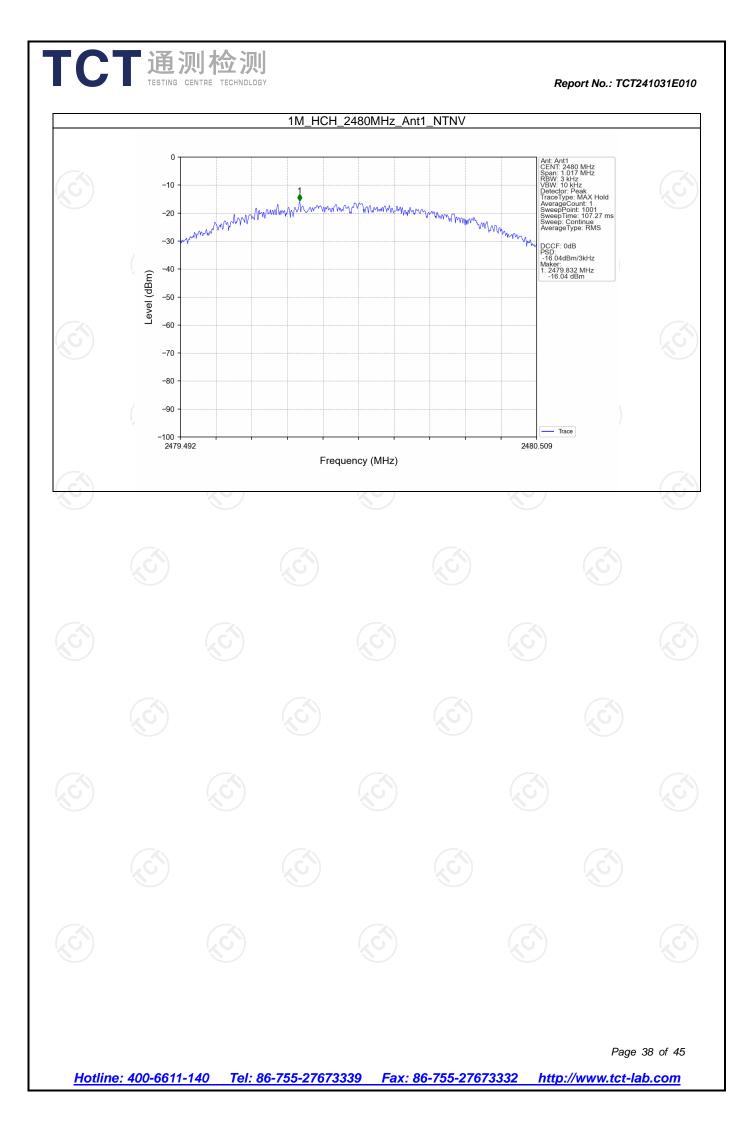


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4.2.1 PSD



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

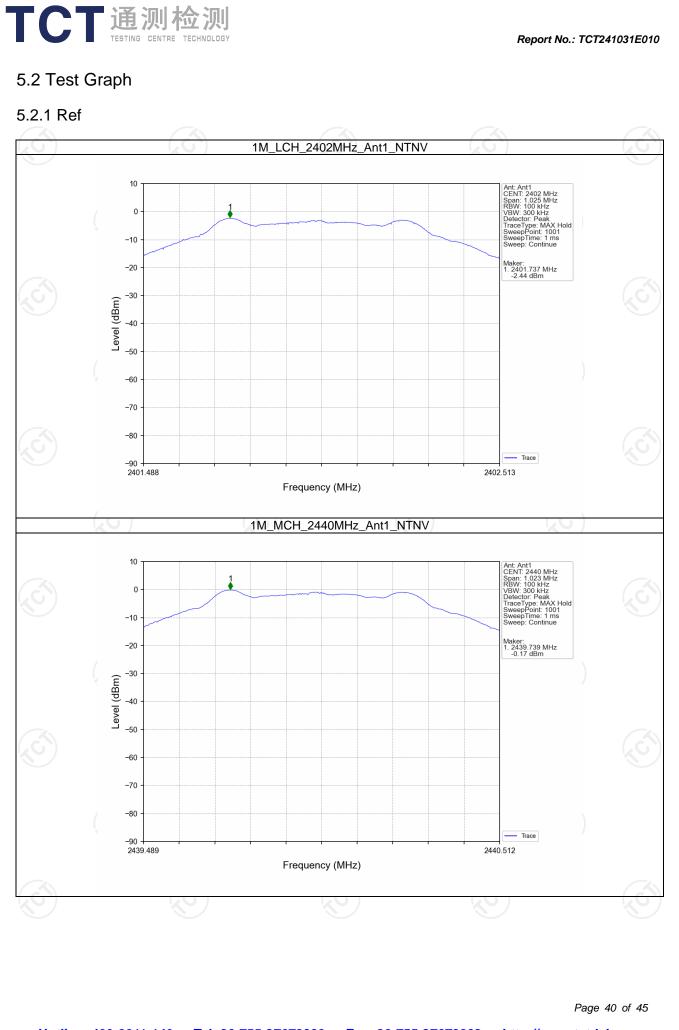
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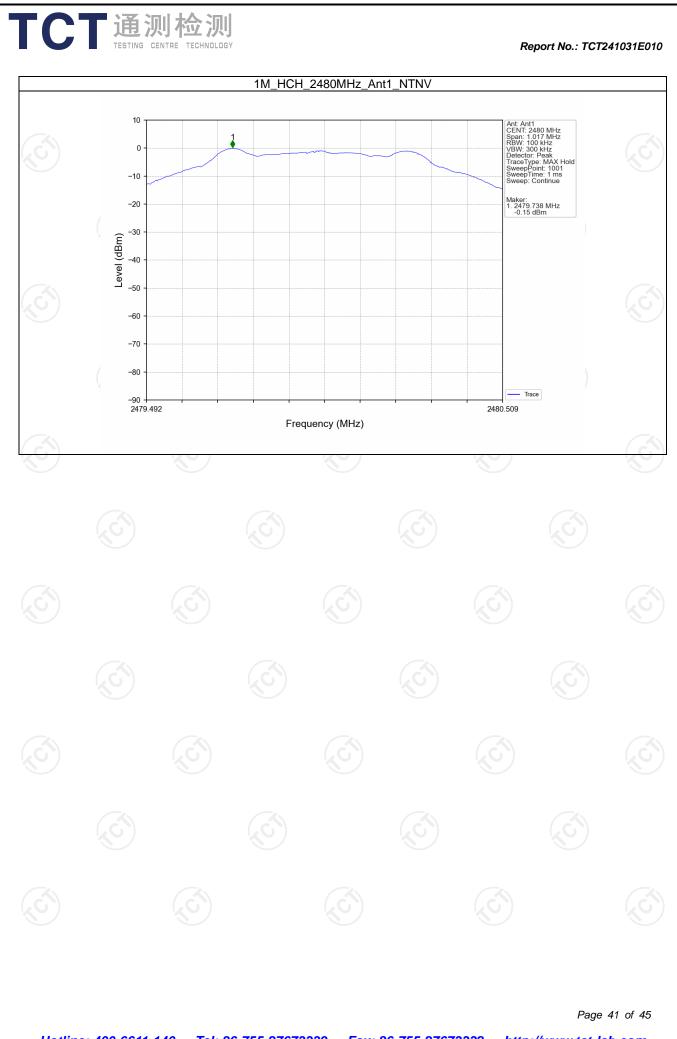
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402		-2.44
1M	SISO	2440	1	-0.17
		2480	1	-0.15
Note1: Refer to FCC establish the referen		d ANSI C63.10-2020, the	channel contains th	e maximum PSD level was used to

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	/ 1	-0.15	-20.15	Pass
1M	SISO	2440	1	-0.15	-20.15	Pass
		2480	1	-0.15	-20.15	Pass
	r to FCC Part 1 e reference leve		C63.10-2020	, the channel contains the ma	aximum PSD lev	el was used to



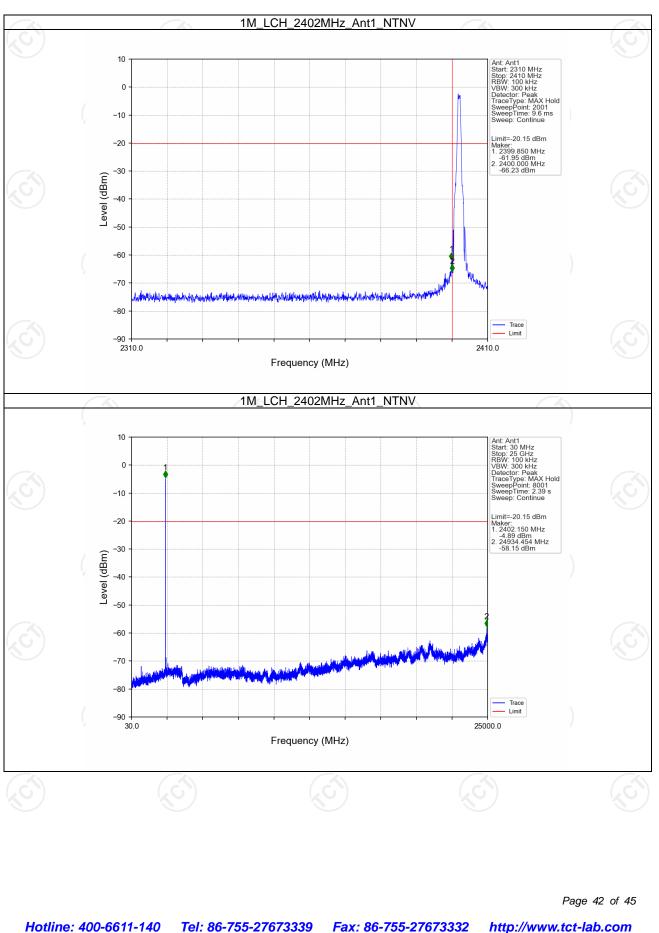




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5.2.2 CSE

TCT通测检测 TESTING CENTRE TECHNOLOGY



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