TEST REPORT

FCC ID	2BN8F-VDP80	
Test Report No:	TCT250317E008	
Date of issue:	Mar. 20, 2025	
Testing laboratory:	SHENZHEN TONGCE TESTIN	G LAB
Testing location/ address:	2101 & 2201, Zhenchang Facto Fuhai Subdistrict, Bao'an Distric 518103, People's Republic of C	ct, Shenzhen, Guangdong,
Applicant's name::	NUMLAKE TECH LIMITED	
Address:	UNIT 1505, 15/F WORKINGPC HAU FOOK STREET TSIM SH	ORT COMMERCIAL BUILDING 3 A TSUI HONG KONG, China
Manufacturer's name:	NUMLAKE TECH LIMITED	
Address:	HAU FOOK STREET TSIM SH	
Standard(s) :	FCC CFR Title 47 Part 15 Subp FCC KDB 558074 D01 15.247 ANSI C63.10:2020	
Product Name::	Doorbell Camera	
Trade Mark:	N/A (C)	
Model/Type reference :	P80, M60, M70, M80, M90, T60 U90, N60, N70, N80, N90, P60), T70, T80, T90, U60, U70, U80, , P70, P90
Rating(s):	Rechargeable Li-ion Battery DC	C 3.7V
Date of receipt of test item	Mar. 17, 2025	
Date (s) of performance of test:	Mar. 17, 2025 ~ Mar. 20, 2025	
Tested by (+signature) :	Onnado YE	Onnado Janges
Check by (+signature) :	Beryl ZHAO	Boyl 22 TCT
Approved by (+signature):	Tomsin	Jomsines 32
TONGCE TESTING LAB. Th	his document may be altered or ly, and shall be noted in the revi	ne written approval of SHENZHEI revised by SHENZHEN TONGCI ision section of the document. The

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1. General Product Information

1.1. EUT description

Product Name:	Doorbell Camera		
Model/Type reference:	P80		Res and a second
Sample Number	TCT250317E008-0101	-1.	
Bluetooth Version:	V5.0		
Operation Frequency:	2402MHz~2480MHz		
Channel Separation:	2MHz		
Number of Channel:	40		
Modulation Type:	GFSK	Z.	
Antenna Type:	Internal Antenna		
Antenna Gain:	1.65dBi		
Rating(s):	Rechargeable Li-ion Batte	ry DC 3.7V	

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

No. Model No.		Tested with			
1	P80	\boxtimes			
Other models	Other models M60, M70, M80, M90, T60, T70, T80, T90, U60, U70, U80, U90, N60, N70, N80, N90, P60, P70, P90				
Note: P80 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of P80 can represent the remaining models.					

1.3. Operation Frequency

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: Channel 0, 19 & 39 have been tested.							

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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:	22.1 °C	22.7 °C		
Humidity:	52 % RH	57 % RH		
Atmospheric Pressure:	1010 mbar	1010 mbar		
Test Software:				
Software Information:	ETF GUI Tool(Version:1.3.	3d)		
Power Level:	7			
Test Mode:				
Engineer mode:	ngineer 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.

3.2. 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	
Adapter	EP-TA200	R37M4PR7QD4SE3		SAMSUNG	

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:

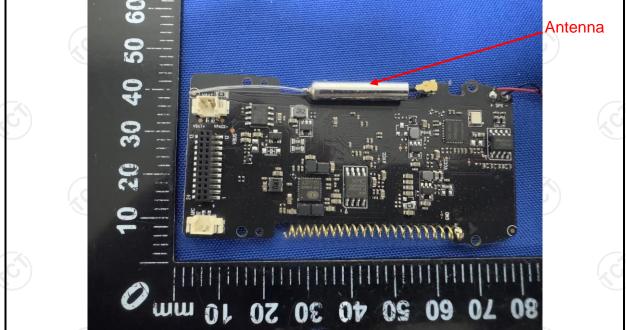
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 internal antenna which permanently attached, and the best case gain of the antenna is 1.65dBi.



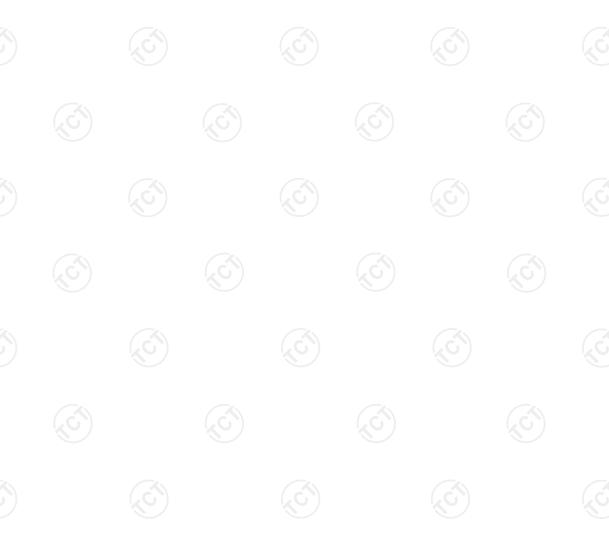
5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207				
Fest Method:	ANSI C63.10:2020	ANSI C63.10:2020				
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
	Frequency range	Limit (dBuV)			
	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Referenc	e Plane				
Гest Setup:	40cm E.U.T AC power B0cm LISN Filter AC power Filter AC power Filter AC power EMI EMI Remark EUT: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Mode:	Charging + Transmittir	ng Mode				
Test Procedure:	 The E.U.T is connerimpedance stabilizy provides a 500hm/s measuring equipme The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables ANSI C63.10:2020 conducted interference cables and the interface cables and the	zation network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm tern diagram of the line are checke nce. In order to fin e positions of equ s must be chang	(L.I.S.N.). This pedance for the ected to the mains a 50ohm/50uh nination. (Please test setup and ed for maximum nd the maximum upment and all o ged according to			
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. 20, 2026		
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		

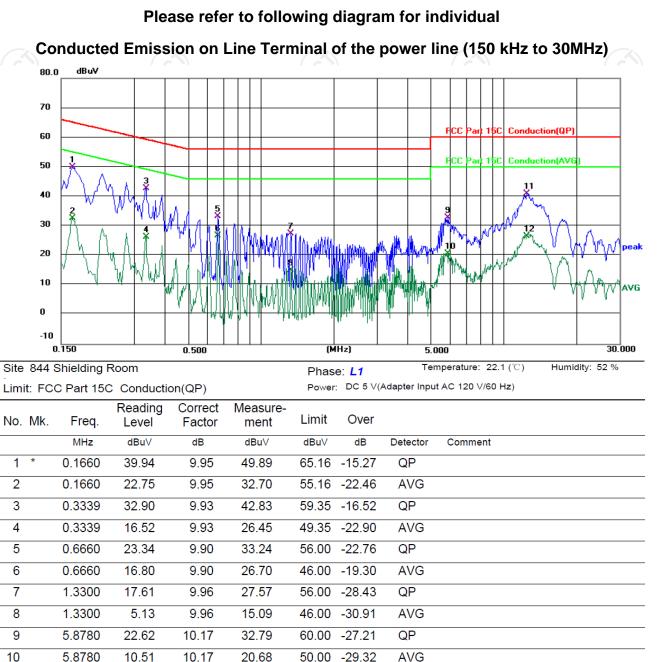


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5.2.3. Test data

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Note:

12.4778

12.4778

30.72

16.24

10.35

10.35

41.07

26.59

11

12

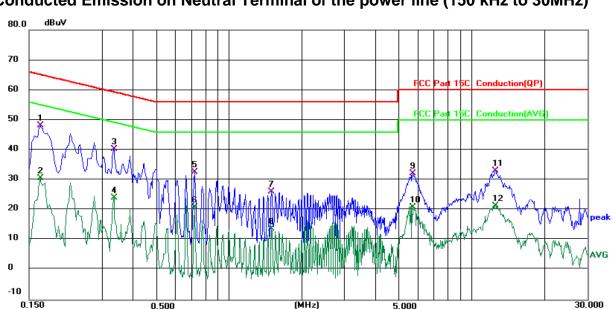
Freq. = Emission frequency in MHz	
Reading level (dBµV) = Receiver reading	
Corr. Factor (dB) = LISN factor + Cable loss	
Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)	
Limit (dB μ V) = Limit stated in standard	
Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)	
Q.P. =Quasi-Peak	
AVG =average	
* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz	

60.00 -18.93

50.00 -23.41

QP

AVG



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

Site 84	Site 844 Shielding Room				Phase: N Temperature: 22.1 (°C)			perature: 22.1 (℃)	Humidity: 52 %
Limit: F	CC Part 15	C Conductio	on(QP)		Power:	DC 5 V(A	dapter Input	AC 120 V/60 Hz)	
No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment	
1 *	0.1660	38.21	9.94	48.15	65.16	-17.01	QP		
2	0.1660	20.57	9.94	30.51	55.16	-24.65	AVG		
3	0.3339	30.29	9.93	40.22	59.35	-19.13	QP		
4	0.3339	14.26	9.93	24.19	49.35	-25.16	AVG		
5	0.7217	22.70	9.94	32.64	56.00	-23.36	QP		
6	0.7217	10.98	9.94	20.92	46.00	-25.08	AVG		
7	1.4979	16.03	10.00	26.03	56.00	-29.97	QP		
8	1.4979	3.79	10.00	13.79	46.00	-32.21	AVG		
9	5.7259	21.92	10.18	32.10	60.00	-27.90	QP		
10	5.7259	10.84	10.18	21.02	50.00	-28.98	AVG		
11	12.5700	22.64	10.41	33.05	60.00	-26.95	QP		
12	12.5700	10.93	10.41	21.34	50.00	-28.66	AVG		

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

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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 (Lowest 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	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	No.
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 EUT transmit continuously. Make the measurement with the spectrum and resolution bandwidth (RBW) = 100 kHz. Set th Video bandwidth (VBW) = 300 kHz. In order to an accurate measurement. The 6dB bandwidt be greater than 500 kHz. Measure and record the results in the test report 	lyzer's ne o make h must
Test Result:	PASS	

5.4.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		

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:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
Test Procedure:	 The RF output of EUT 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	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

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Test Requirement:	FCC Part15 C Section 1	5.247 (d)	í, ć
Test Method:	KDB 558074 D01 v05r02	2	6
Limit:	frequency band, the non-restricted bands sha 30dB relative to the max RF conducted measure which fall in the restricted	vidth outside of the authoriz emissions which fall in all be attenuated at least 20 c kimum PSD level in 100 kHz ement and radiated emission ed bands, as defined in Sect mply with the radiated emission 15.209(a).	the B / by ons tion
Test Setup:	Spectrum Analyzer	EUT	
Test Mode:	Refer to item 3.1	(\mathcal{O})	(c
	analyzer by RF cable compensated to the r 2. Set to the maximum p EUT transmit continu 3. Set RBW = 100 kHz, V	esults for each measuremen ower setting and enable the	t.
Test Procedure:	bandwidth outside of shall be attenuated b maximum in-band pe maximum peak cond used. If the transmitte power limits based or a time interval, the at paragraph shall be 30 15.247(d). 4. Measure and record th 5. The RF fundamental f	the authorized frequency bar y at least 20 dB relative to the ak PSD level in 100 kHz whe ucted output power procedure or complies with the conducted of the use of RMS averaging of tenuation required under this 0 dB instead of 20 dB per the results in the test report. requency should be excluded on the operating frequency bar	nd e en e is ed over



5.6.2. Test Instruments

Spe	Name	Manufactu	urer	Model No.	Seria	I Number	Calibratio	on Du
Spectrum Analyzer Combiner Box		Agilent		N9020A	MY4	9100619	Jun. 26,	2025
		Ascentest		AT890-RFB		/	/	

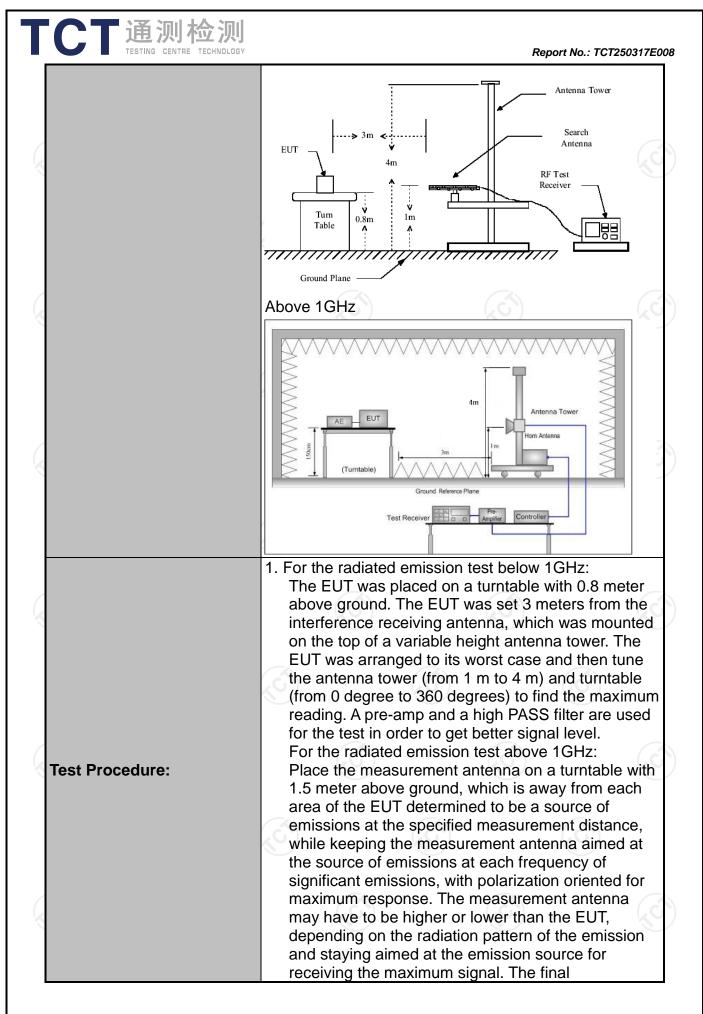
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15	C Section	15.209			K
Test Method:	ANSI C63.10):2020				
Frequency Range:	9 kHz to 25 (GHz				
Measurement Distance:	3 m	K	9		NO NO	
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Refer to item	n 3.1	((
	Frequency	quency Detector		VBW	Remar	·k
	9kHz- 150kHz Quasi-peak		RBW k 200Hz	1kHz	Quasi-peak	
Receiver Setup:	150kHz- 30MHz	Quasi-peal		30kHz	Quasi-peak	
	30MHz-1GHz	Quasi-peal	k 120KHz	300KHz	Quasi-peak	Value
		Peak	1MHz	3MHz	Peak Va	
	Above 1GHz	Peak	1MHz	10Hz	Average V	/alue
	Frequen	су	Field Stro (microvolts		Measuren Distance (m	
	0.009-0.4	490	2400/F(KHz)		300	
	0.490-1.7	705	24000/F(KHz)		30	
	1.705-3		30		30	
	30-88		100		3	
Limit:	88-216		150 200		3	
Lillit.	216-96 Above 9		<u> </u>		3	
		<u>, , , , , , , , , , , , , , , , , , , </u>				
	Frequency		Field Strength microvolts/meter)		ment ice Dete rs)	ector
	Above 1GH	,	500	3	Ave	rage
	Above IGH.	5000 3		Pe	eak	
	For radiated	emission: stance = 3m	s below 30		Computer	
Test setup:	0.8m	Turn table			Amplifier	
	Ground Plane 30MHz to 1GHz					

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	 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 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. Use the following spectrum analyzer settings: Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; 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

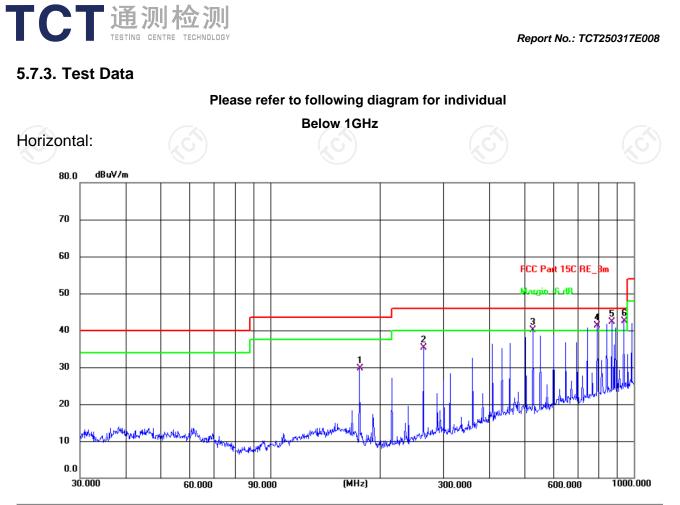
5.7.2. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI7	100529	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 20, 2026
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	Jan. 22, 2026
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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Site 3m Anechoic Chamber2

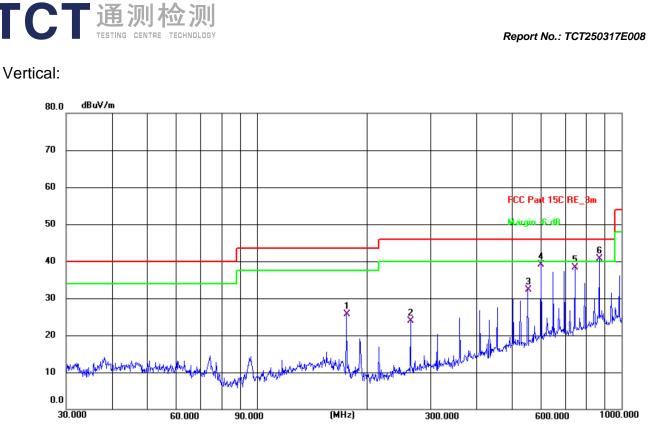
Polarization: Horizontal

Temperature: 22.7(C) Humidity: 57 %

Limit: F	FCC Part 15C F	RE_3m				Power:	DC 3.7 V		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	176.2686	48.44	-18.74	29.70	43.50	-13.80	QP	Ρ	
2	263.8190	54.13	-1 <mark>8.</mark> 91	35.22	46.00	-10.78	QP	Ρ	
3!	528.2458	51.97	-11.82	40.15	46.00	-5.85	QP	Р	
4 !	793.3958	48.26	-6.91	41.35	46.00	-4.65	QP	Ρ	
5!	869.1302	48.72	-6.39	42.33	46.00	-3.67	QP	Р	
6 *	938.8326	47.89	-5.40	42.49	46.00	-3.51	QP	Ρ	

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Site 3m Anechoic Chamber2 Polarization: Vertical Temperature: 22.7(C) Humidity: 57 % Limit: FCC Part 15C RE_3m DC 3.7 V Power: Frequency Reading Factor Level Limit Margin Detector P/F Remark No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 1 176.2686 44.50 -18.74 25.76 43.50 -17.74 QP Ρ 2 263.8190 42.78 -18.91 23.87 46.00 -22.13 QP Ρ 3 552.8832 43.70 -11.38 32.32 46.00 -13.68 QP Ρ 4 601.4265 49.17 -10.04 39.13 46.00 -6.87 QP Ρ 5 744.8660 46.22 -7.82 38.40 46.00 -7.60 QP Ρ 6 869.1302 47.10 -6.39 40.71 46.00 -5.29 QP Ρ

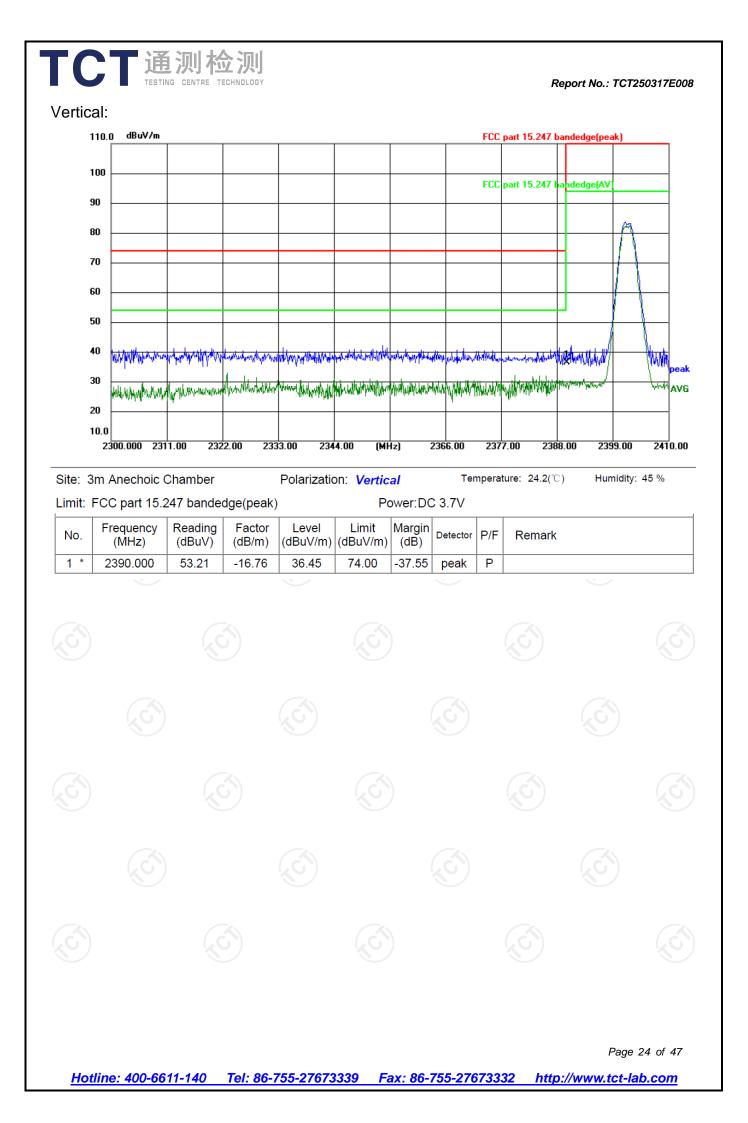
Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

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

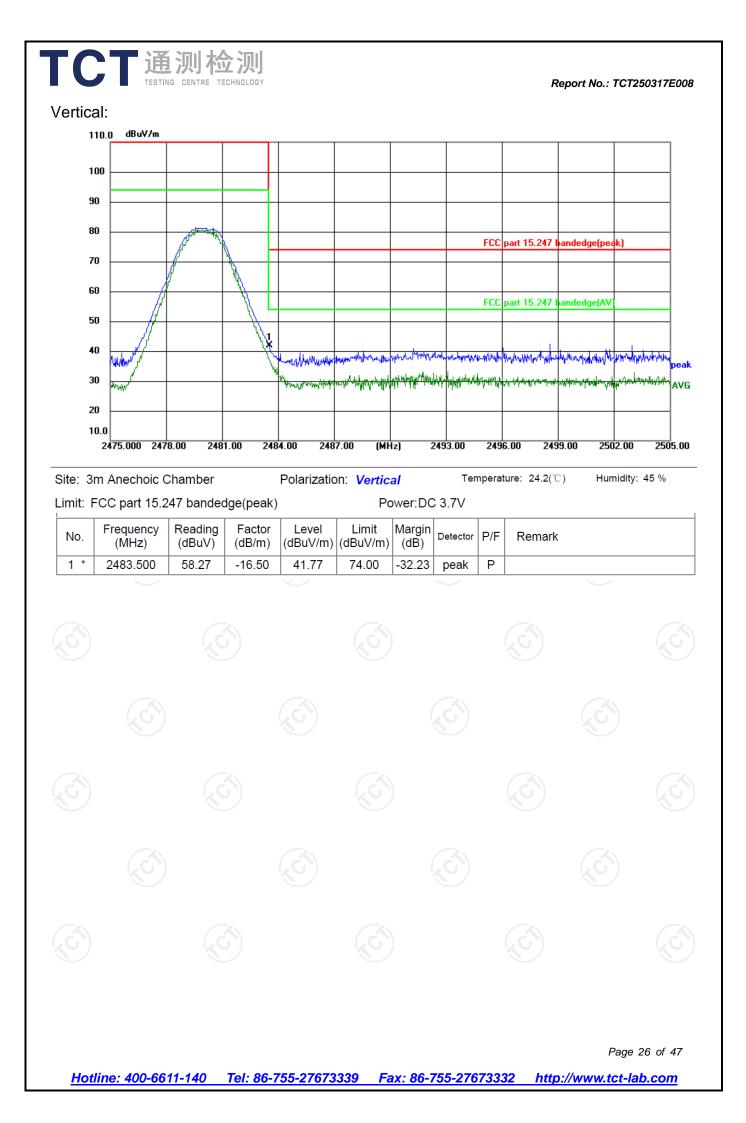
- 3. Freq. = Emission frequency in MHz
 - Measurement ($dB\mu V/m$) = Reading level ($dB\mu V$) + Corr. Factor (dB) Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
 - Limit ($dB\mu V/m$) = Limit stated in standard
 - Margin (dB) = Measurement (dB μ V/m) Limits (dB μ V/m)
 - * is meaning the worst frequency has been tested in the test frequency range

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11	0.0 dBuV/m		A 11	1				FCC	part 15.247	banded <u>c</u>	ge(peak)	
10	0						_					
90	,							FCC	part 15.247	banded <u>c</u>	je(AV)	
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20												
20 10 e: 3r	n Anechoic (11.00 232 Chamber	22.00 23	Polarizati	on: Horiz	ontal			7.00 23	38.00 C)	2399.0	D 241 y: 45 %
20 10 e: 3r).0 2300.000 23	11.00 232 Chamber	22.00 23	Polarizatio	on: Horiz	ontal ower:D0 Margin	Te	mpera				
20 10 e: 3r nit: F	n Anechoic - CC part 15.2	11.00 232 Chamber 247 bande Reading	22.00 23 dge(peak	Polarizatio	on: <i>Horiz</i> o Po Limit	ontal ower:D0 Margin	те С 3.7V	mpera	iture: 24.2(°			
20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			
20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			
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20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			
20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			
20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			
20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			
20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			
20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			
20 10 e: 3r nit: F o.	n Anechoic CC part 15.2 Frequency (MHz)	11.00 232 Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Horiz</i> o Po Limit (dBuV/m)	o ntal ower:DC Margin (dB)	Te C 3.7V Detector	P/F	iture: 24.2(°			

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orizo	0.0 dBu∀/m											
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11 e: 3r	n.0 2475.000 247 n Anechoic C	Chamber		Polarizat	ion: Horiz	ontal	2493.00 Te		6.00 249 ture: 24.2(°C	9.00 2		2505
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11 e: 3r nit: F No.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F No.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F No.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F No.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F No.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F lo.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F lo.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F Jo.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F No.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505
11 e: 3r nit: F No.	n Anechoic C CC part 15.2 Frequency (MHz)	Chamber 47 banded Reading (dBuV)	dge(pea Factor (dB/m)	Polarizat k) r Level (dBuV/m)	ion: <i>Horiz</i> o Po Limit (dBuV/m)	ontal ower:D0 Margin (dB)	2493.00 Te C 3.7V Detector	mpera	ture: 24.2(°C	9.00 2	502.00	2505



0 4 0 0 N 4

Above 1GHz

Low chann	el: 2402 IV	IHZ							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	55.99		-9.51	46.48		74	54	-7.52
7206	Н	46.05		-1.41	44.64		74	54	-9.36
	Н								
4804	V	56.21		-9.51	46.70	~	74	54	-7.30
7206	ςΟV	45.48	-420	-1.41	44.07	<u> </u>	74	54	-9.93
	V					<u> </u>			

Middle channel: 2440 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	Peak limit (dBµV/m)		Margin (dB)
4880	Н	56.13		-9.36	46.77	 74	54	-7.23
7320	Н	45.56		-1.15	44.41	 74	54	-9.59
	Н				(
ļ			Ň)				
4880	V	54.72		-9.36	45.36	 74	54	-8.64
7320	V	44.24		-1.15	43.09	 74	54	-10.91
	V							
				((\mathbf{a})		(, ć

High chann	nel: 2480 N	ЛНz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	Н	55.97		-9.20	46.77		74	54	-7.23
7440	С H	45.36		-0.96	44.40		74	54	-9.60
	Н								
4960	V	55.85		-9.20	46.65		74	54	-7.35
7440	V	44.47		-0.96	43.51		74	54	-10.49
	V	<u> </u>		V					

Note:

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

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

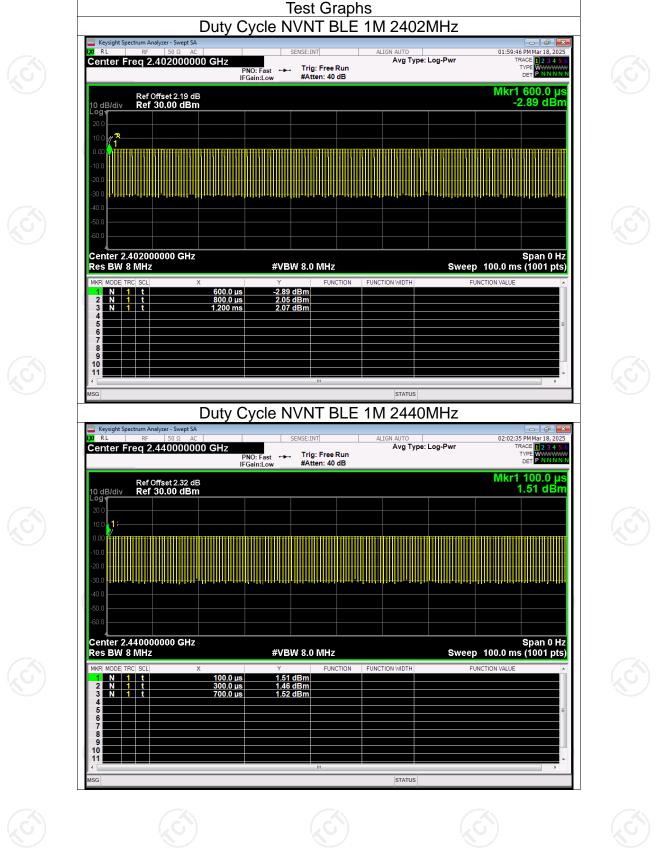
6. All the restriction bands are compliance with the limit of 15.209.



Appendix A: Test Result of Conducted Test

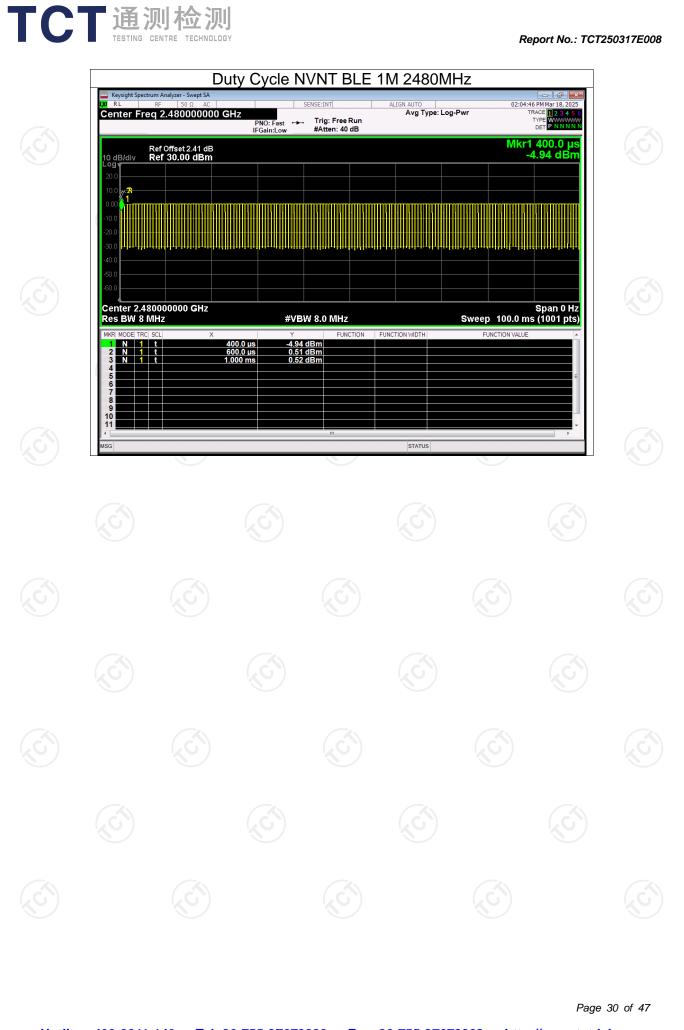
		Duty (Cycle			
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)		
NVNT	BLE 1M	2402	79.92	0.97		
NVNT	BLE 1M	2440	80.02	0.97		
NVNT	BLE 1M	2480	80.02	0.97		

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TCT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT250317E008



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Condition	Mode	aximum Cone Frequency (MHz)	ducted Po (dBm)		Limit (dBm)	Verdict
NVNT NVNT	BLE 1M BLE 1M	2402 2440	2.00 1.45	-6	30 30	Pass Pass
NVNT	BLE 1M	2440	0.40		30	Pass
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♦¹

Test Graphs Power NVNT BLE 1M 2402MHz

PNO: Fast ---- Trig: Free Run IFGain:Low #Atten: 30 dB

Avg Type: Log-Pwr Avg|Hold: 300/300

STATUS

Power NVNT BLE 1M 2440MHz

		:Fast ↔ n:Low	. Trig: Free #Atten: 30		Avg Hold: 2	00/200		
10 dB/div	Ref Offset 2.32 dB Ref 20.00 dBm					M	kr1 2.440 1.	078 G 454 d
10.0				↓ ¹				
0.00		 						
-10.0								
-20.0								
-30.0								
40.0								
-50.0								
60.0								
70.0								
Center 2.4 Res BW	40000 GHz 2.0 MHz	#VB	W 6.0 MHz			#Swoo	Span p 10.00 ms	6.000



01:59:52 PM Mar 18, 2025

Mkr1 2.402 150 GHz 2.000 dBm

TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

- r - X

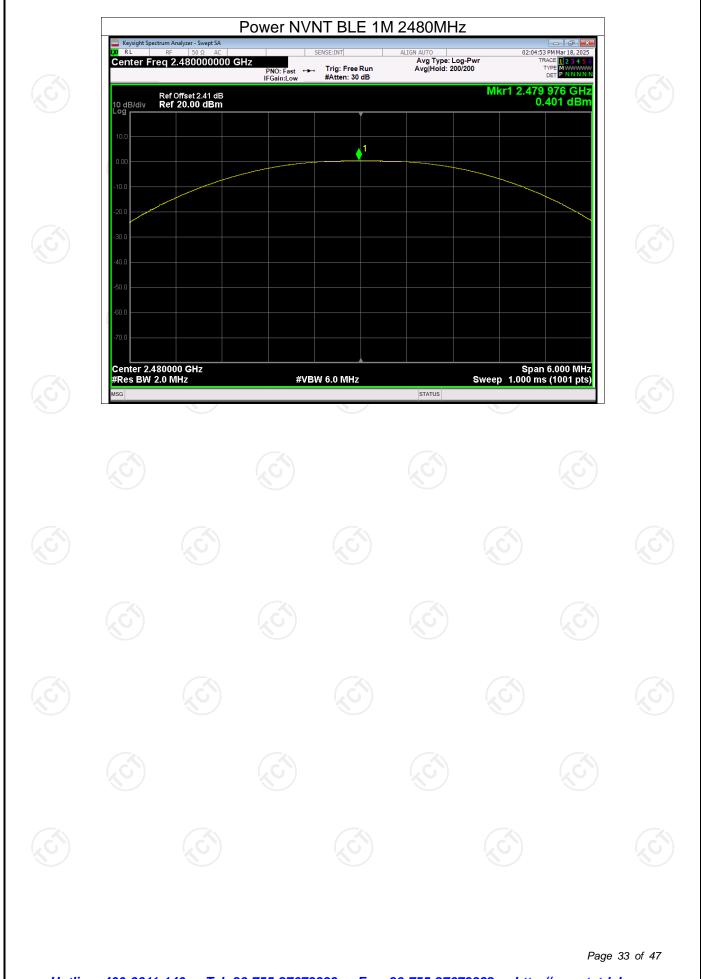
Keysight Spectrum Analyzer - Swept SA
 RL
 RF
 50 Ω
 AC

 Center Freq 2.402000000 GHz

Keysight Spectrum Analyzer - Swept

Ref Offset 2.19 dB Ref 20.00 dBm

10 dB/div Log



							Page	34 of 47
<u>Hotlin</u>	e: 400-6611-	<u>140 Tel: 8</u>	86-755-27673	339 Fax:	<u>86-755-2767</u>	<u>3332 http</u>	://www.tct-la	<u>ıb.com</u>

-6dB Bandwidth Frequency -6 dB Bandwidth Limit -6 dB Condition Verdict Mode **Bandwidth (MHz)** (MHz) (MHz) NVNT BLE 1M 2402 0.649 0.5 Pass NVNT BLE 1M 2440 0.655 0.5 Pass BLE 1M Pass NVNT 2480 0.653 0.5

Report No.: TCT250317E008





	rum Analyzer - Occupied BW RF 50 Ω AC cq 2.4800000000	GHZ #IFGain:Low	SENSE:INT Center Freq: 2.48000 → Trig: Free Run #Atten: 30 dB	ALIGN AUTO 00000 GHz Avg Hold: 400/40	Radio Std: 00 Radio Dev		
10 dB/div Log 12.4 2.41 -7.59 -17.6 -27.6 -37.6	Ref Offset 2.41 dB Ref 22.41 dBm		2	3	-5.	6163 dBm	
-47.6 -57.6 -67.6 Center 2.4 #Res BW 1	8 GHz 100 kHz ied Bandwidth		#VBW 300 Total Power	kHz 6.80 dBm		Span 3 MHz Sweep 1 ms	
Transmi x dB Ba	it Freq Error	502 MHz 15.458 kHz 653.3 kHz	% of OBW Por x dB	wer 99.00 % -6.00 dB			
MSG				STATUS			

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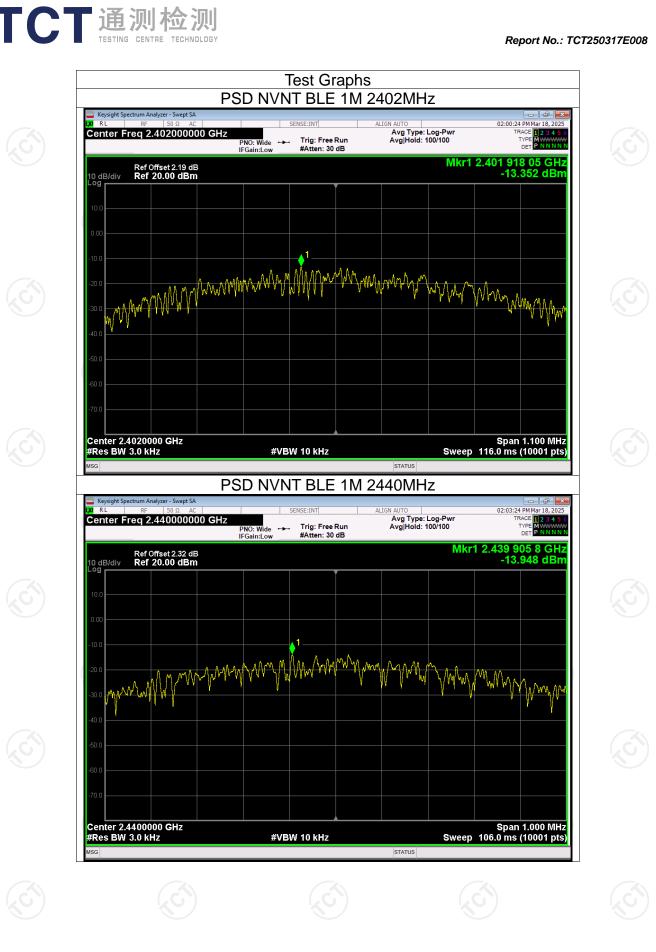
Hotline: 400-6611-140	Tel: 86-755-27673339	Fax: 86-755-27673332	http://www.tct-lab.com

	-	• • •	B 14	
Maximum	Power	Spectral	Densitv	Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	-13.35	8	Pass
NVNT	BLE 1M	2440	-13.95	8	Pass
NVNT	BLE 1M	2480	-13.94	8	Pass

TCT 通测检测 TESTING CENTRE TECHNOLOGY

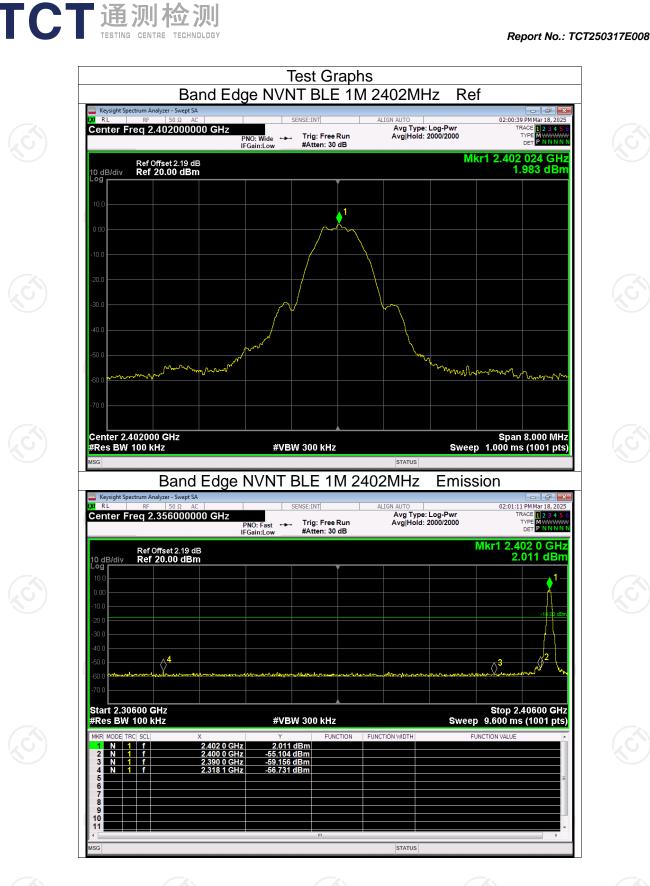
Report No.: TCT250317E008

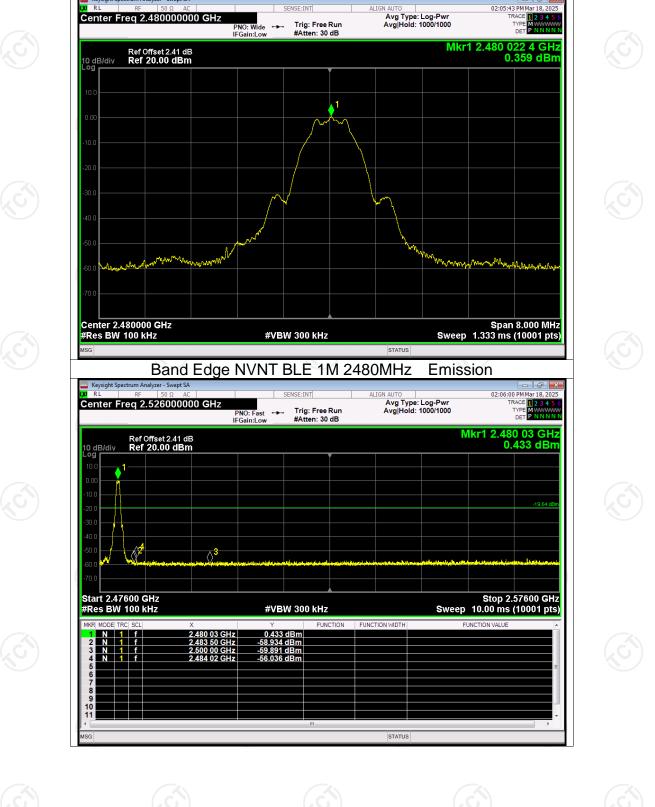


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TC	通测检 TESTING CENTRE TECH			Report No.: TCT250317E008
		PSD NVNT BLE	1M 2480MHz	
	Keysight Spectrum Analyzer - Swep Keysight Spectrum Analyzer - Swep Keysight Spectrum Analyzer - Swep Center Freq 2.480000	AC SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Run Avg Hold: 100/100	02:05:29 PM Mar 18, 2025 TRACE 12 3 4 5 6 Type M DET P NN NN N
	Ref Offset 2.41 10 dB/div Ref 20.00 dB	IFGain:Low #Atten: 30) dB	.479 961 94 GHz -13.943 dBm
	10 dB/div Ref 20.00 dE			
	0.00			
	-10.0	 1-		
	-20.0	Mha mar ann Mar Mar	MWWWWWWWWWWW	WARNA MANA ANA
	-20.0 -30.0 -40.0			W WWWWWWWWW
	-50.0			
	-60.0			
	-70.0			
	Center 2.4800000 GHz #Res BW 3.0 kHz	#VBW 10 kHz	Sweep 1	Span 1.100 MHz 16.0 ms (10001 pts)
	MSG		STATUS	
				_
l la dia	e: 400-6611-140	Fel: 86-755-27673339	Fax: 86-755-27673332	Page 39 of 47 http://www.tct-lab.com

Condition	Mod	le Fro	quency (N	Band Edg (Hz) Ma	e x Value (dE	Sc) lim	nit (dBc)	Verdic
NVNT	BLE	1M	2402		-58.71		-20	Pass
NVNT	BLE [·]		2480		-56.39		-20	Pass





Band Edge NVNT BLE 1M 2480MHz

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TCT通测检测 TESTING CENTRE TECHNOLOGY

🔤 Keysight S

Center Freg 2.480000000 GHz

KI RL

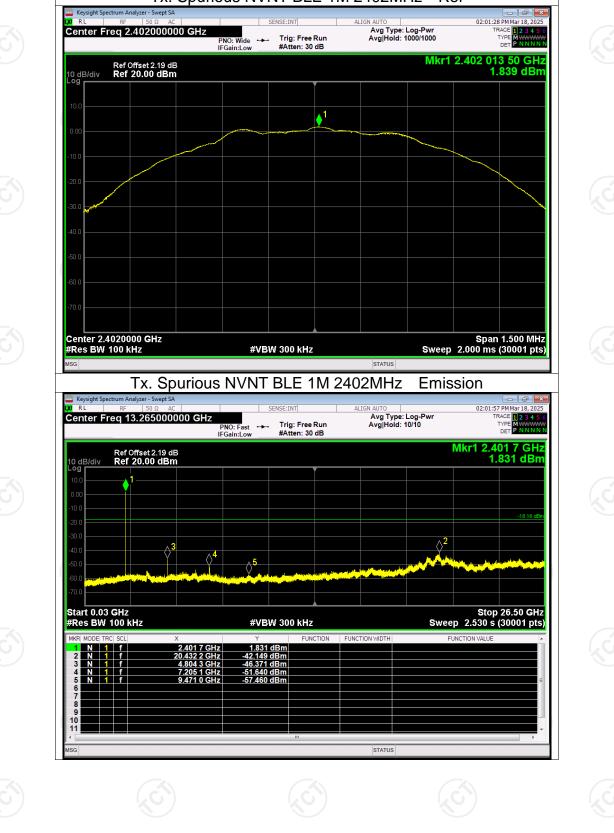
Report No.: TCT250317E008

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Ref

Avg Type: Log-Pwr Avg|Hold: 1000/1000

ГСТ	通测检测 TESTING CENTRE TECHNOLO	DGY			F	eport No.: TC	T250317E00
•		Conducted			on		
Condition NVNT NVNT NVNT	ModeFreeBLE 1MBLE 1MBLE 1M	equency (N 2402 2440 2480	MHZ) Ma	x Value (dl -43.98 -43.85 -42.69	Bc) Lim	it (dBc) -20 -20 -20	Verdict Pass Pass Pass
						Pag	e 43 of 47



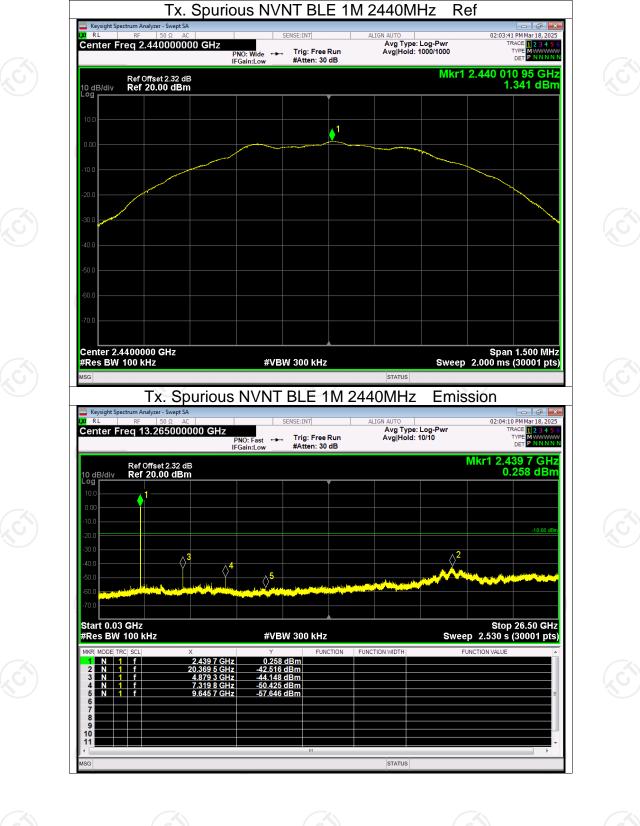
Test Graphs Tx. Spurious NVNT BLE 1M 2402MHz

TCT通测检测 TESTING CENTRE TECHNOLOGY

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Ref



TCT通测检测 TESTING CENTRE TECHNOLOGY

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Mkr1 2.480 015 15 GHz 0.311 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Loa **≜**1 Center 2.4800000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 2.000 ms (30001 pts) #VBW 300 kHz STATUS Tx. Spurious NVNT BLE 1M 2480MHz Emission Keysight Sp Analyzer - Swept S 02:06:49 PM Mar 18. 2 U RL E 1 2 3 4 5 E MWWWW T P N N N N Avg Type: Log-Pw Avg|Hold: 10/10 Center Freg 13.265000000 GHz Trig: Free Run #Atten: 30 dB TYPE PNO: Fast ↔→→ IFGain:Low Mkr1 2.480 2 GHz -1.970 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Log **r** 2^{2} \Diamond -}<mark>4</mark> ♦ Start 0.03 GHz #Res BW 100 kHz Stop 26.50 GHz Sweep 2.530 s (30001 pts) #VBW 300 kHz FUNCTION WIDTH FUNCTION MODE TRC Solution N 1 f N 1 f N 1 f N 1 f N 1 f N 1 f N 1 f 2.480 2 GHz 20.421 6 GHz 4.959 6 GHz 7.440 7 GHz 10.045 4 GHz -1.970 dBm -42.382 dBm -44.354 dBm -54.344 dBm -56.140 dBm 456780

Tx. Spurious NVNT BLE 1M 2480MHz

PNO: Wide IFGain:Low **н**н

Trig: Free Run #Atten: 30 dB Report No.: TCT250317E008

02:06:19 PM Mar 18, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

Ref

Avg Type: Log-Pwr Avg|Hold: 1000/1000



STATUS



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🔤 Keysight S

Center Freg 2.480000000 GHz

KI RL

