	之 须 J SHNOLOGY		
	TEST REPOR	Т	
FCC ID	2AVEN-CK829BLE		
Test Report No:	TCT250306E025		
Date of issue:	Mar. 12, 2025		
Testing laboratory: :	SHENZHEN TONGCE TESTING	G LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factor Fuhai Subdistrict, Bao'an Distric 518103, People's Republic of Ch	t, Shenzhen, Guangdong,	
Applicant's name: :	Shenzhen Unique Scales Co., L	td 🕜 🕜	
Address:	301&601, no.22, Huanping Road Street, Longgang District, Shenz		
Manufacturer's name :	Shenzhen Unique Scales Co., L	td	
Address:	301&601, no.22, Huanping Road, Gaoqiao Community, Pingdi Street, Longgang District, Shenzhen City, China		
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::	Kitchen scale		
Trade Mark:	N/A		
Model/Type reference :	Refer to model list of page 3		
Rating(s):	Battery: DC 3V(AAA*2)		
Date of receipt of test item	Mar. 06, 2025		
Date (s) of performance of test:	Mar. 06, 2025 ~ Mar. 12, 2025		
Tested by (+signature) :	Yannie ZHONG	Yannie Zosteczy	
Check by (+signature) :	Beryl ZHAO	Boy 2 TCT	
Approved by (+signature):	Tomsin	Toms it's st	
General disclaimer:			

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Table of Contents

TCT通测检测 TESTING CENTRE TECHNOLOGY

1. General Product Information 1.1. EUT description	
-	
1.2. Model(s) list	
1.3. Operation Frequency	
2. Test Result Summary	
3. General Information	
3.1. Test environment and mode	6
3.2. Description of Support Units	6
4. Facilities and Accreditations	
4.1. Facilities	
4.2. Location	7
4.3. Measurement Uncertainty	
5. Test Results and Measurement Data	
5.1. Antenna requirement	8
5.2. Conducted Emission	
5.3. Conducted Output Power	
5.4. Emission Bandwidth	
5.5. Power Spectral Density	
5.6. Conducted Band Edge and Spurious Emission Measurement	13
5.7. Radiated Spurious Emission Measurement	
Appendix A: Test Result of Conducted Test	
Appendix B: Photographs of Test Setup	
Appendix C: Photographs of EUT	



1. General Product Information

1.1. EUT description

Product Name:	Kitchen scale		
Model/Type reference:	CK829BLE		
Sample Number	TCT250306E025-0101		
Bluetooth Version:	V4.0		$\langle \mathcal{C} \rangle$
Operation Frequency:	2402MHz~2480MHz		
Channel Separation:	2MHz	(\mathbf{c}^{*})	(G)
Number of Channel:	40		
Modulation Type:	GFSK		
Antenna Type:	PCB Antenna		
Antenna Gain:	2.81dBi		
Rating(s):	Battery: DC 3V(AAA*2)	$\langle \mathcal{O} \rangle$	

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

		X		X~			/
No.			Mode	l No.			Tested with
			CK829	9BLE			\boxtimes
Other mode	CK780 CK78 CK78 CK81 CK80 CK81 CK82 CK832, CK832, CK832, CK857, CK	BLE, CK78 (88-2, CK78 (9BLE, CK7 (99BLE, CK7 (9BLE, CK8 (9BLE, CK7 (5, CK822B (6BLE, CK8 (CK833BLE (38, CK839, (CK858BLE (861, CK77)	1, CK782, CI 39, CK790, C 93BLE, CK7 6798BLE, CI 01-M01, CK8 82BLE-X01, LE, CK802, 28BLE, CK8 5, CK835, CH CK850, CK8 5, CK868, CH	 (783, CK78 (783, CK78 (791, CK7 95BLE, CK (800, CK80 305BLE, CK (805, CK803, CK8 (836, CK83 51, CK852, (860, CK79 (862, CK86 	2K772, CK77 6, CK787, C 93, CK781B 796BLE, CK 1, CK806BL (811BLE, CK 808BLE, CK 823, CK825E 830, CK825E 830, CK829BL 7, CK855, CK8 7BLE, CK83 5, CK863BL , CK869BLE	K788, LE, 797, E, &821, &813, BLE, BLE, BLE, E-x01, 356, 3-X01, E,	
Note: CK829BL ayout, only diff							circuit and PCB ing models.
S)		S)	K.)	KO)		S)
1.3. Op	eration Fr	equency					
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Unding	400 6644 440	Tol: 96 75	5-27673330	Fax: 86-755-	07670000 b	ttr-//www.t	Page 3 of 45

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

Report No.: TCT250306E025

TC	通测 TESTING CENTR	检测			F	Report No.: TC	T250306E025
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
	 2418MHz	 18	 2438MHz	28	2458MHz	38	 2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: C	hannel 0, 19	& 39 have	e been tested.				
<u>Hotline</u>	:: 400-6611-140) <u>Tel:</u> 86-	755-27673339	Fax: 86-755	5-27673332 http	Pa D://www.tct	age 4 of 45 - lab.com



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	N/A
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.

Page 5 of 45

3. General Information

3.1. Test environment and mode

Operating Environment:	
Condition	Radiated Emission
Temperature:	24.5 °C
Humidity:	47 % RH
Atmospheric Pressure:	1010 mbar
Test Software:	
Software Information:	Default program
Power Level:	Default
Test Mode:	
Engineer mode:	Keep the EUT in continuous transmitting by select channel.
above the ground plane of 3 polarities were performed. E the EUT continuously worki axis (X, Y & Z) and con	8m & 1.5m for the measurement below & above 1GHz m chamber. Measurements in both horizontal and vertical During the test, each emission was maximized by: having ng, investigated all operating modes, rotated about all 3 sidered typical configuration to obtain worst position, g cables rotating the turntable varving antenna beight

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
S 1		(C)		1

Note:

use.

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
 Grounding was established in accordance with the manufacturer's requirements and conditions for the intended

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)
furnished by the responsible permanently attached antenn intentional radiator, the manu can be replaced by the user, connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2 Point-to-point operations may greater than 6dBi provided th	be designed to ensure that no antenna other than that party shall be used with the device. The use of a na or of an antenna that uses a unique coupling to the infacturer may design the unit so that a broken antenna but the use of a standard antenna jack or electrical 2400-2483.5 MHz band that is used exclusively for fixed. If employ transmitting antennas with directional gain the maximum conducted output power of the intentional or every 3 dB that the directional gain of the antenna
E.U.T Antenna:	
The Bluetooth antenna is PC case gain of the antenna is 2	B antenna which permanently attached, and the best .81dBi.
Antenna P	
Own	10 00 20 40 30 50 J0 u

Page 8 of 45

5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	
Test Method:	ANSI C63.10:2020		
Frequency Range:	150 kHz to 30 MHz	(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*
	0.5-5	56	46
	5-30	60	50
	Referenc		
Test Setup:	E.U.T AC powe Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Na Test table height=0.8m	EMI Receiver	r – AC power
Test Mode:	Transmitting Mode		<u>e</u>
Test Procedure:	 The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 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 photographs). Both sides of A.C. line are checked for maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2020 on conducted measurement. 		
Test Result:	N/A; Because the EUT		



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	1	1



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	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 sh than 8dBm in any 3kHz band at an continuous transmission.	
Test Setup:	Spectrum Analyzer EUT	
Test Mode:	Refer to item 3.1	
Test Procedure:	 The RF output of EUT was connect analyzer by RF cable. The path los compensated to the results for eace Set to the maximum power setting a EUT transmit continuously. Make the measurement with the sp resolution bandwidth (RBW): 3 kH kHz. Video bandwidth VBW ≥ 3 x I make an accurate measurement, s times DTS Channel Bandwidth. (6 Detector = peak, Sweep time = auto mode = max hold, Allow trace to fu 	ss was ch measurement. and enable the bectrum analyzer's $z \le RBW \le 100$ RBW. In order to set the span to 1.5 dB BW) o couple, Trace
	the peak marker function to detern power level. 5. Measure and record the results in t	

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	/	1

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 1	5.247 (d)	
Test Method:	KDB 558074 D01 v05r0	2	e
Limit:	In any 100 kHz bandy frequency band, the non-restricted bands sh 30dB relative to the ma RF conducted measur which fall in the restrict 15.205(a), must also co limits specified in Section	emissions which fa all be attenuated at lea ximum PSD level in 10 ement and radiated ed bands, as defined i omply with the radiated	II in the st 20 dB / 00 kHz by emissions in Section
Test Setup:	Spectrum Analyzer	EUT	
Test Mode:	Refer to item 3.1	$\langle \mathcal{O} \rangle$	ACC ACC
Test Procedure:	 2. Set to the maximum p EUT transmit continu 3. Set RBW = 100 kHz, Unwanted Emissions bandwidth outside of shall be attenuated b maximum in-band pe maximum peak cond used. If the transmitt power limits based of a time interval, the a paragraph shall be 3 15.247(d). 4. Measure and record to 5. The RF fundamental 	e. The path loss was results for each measu ower setting and enab uously. VBW=300 kHz, Peak E s measured in any 100 f the authorized frequer by at least 20 dB relative eak PSD level in 100 kH flucted output power pro- er complies with the co n the use of RMS avera- ttenuation required unc 0 dB instead of 20 dB p	rement. le the Detector. kHz ncy band e to the Hz when bcedure is inducted aging over ler this ber port. ccluded



5.6.2. Test Instruments

	Name	Manufacturer	Model No.	Serial Numbe	r Calibration	Due
Sp Ar	ectrum nalyzer	Agilent	N9020A	MY49100619	Jun. 26, 20	25
	biner Box	Ascentest	AT890-RFB	1	/	

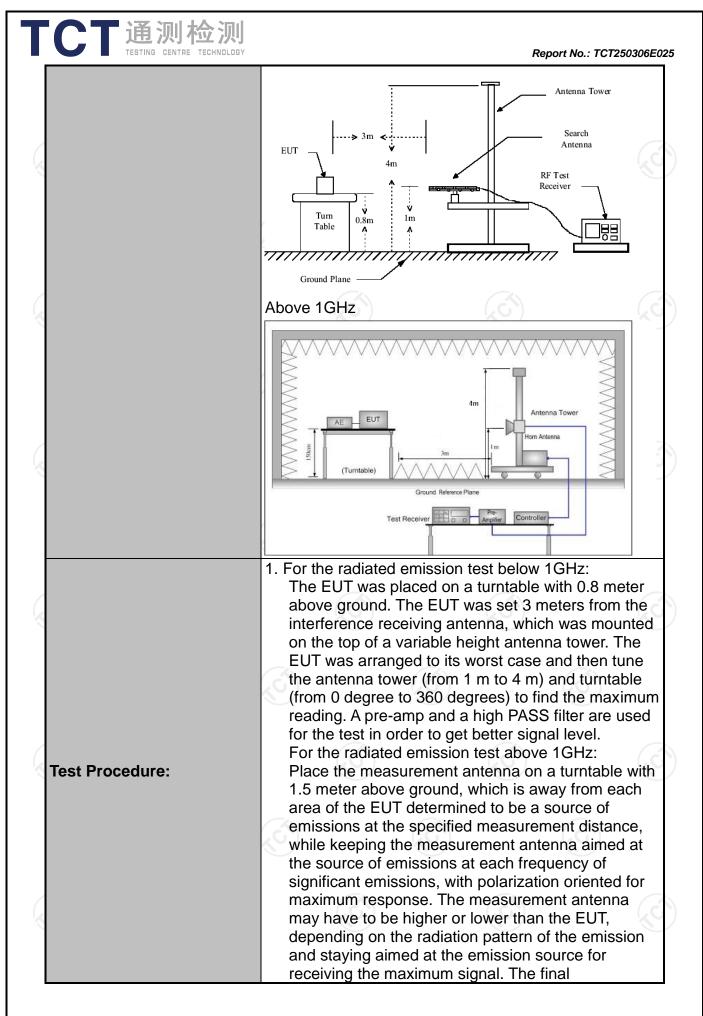
5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15	C Section	15.209			8
Test Method:	ANSI C63.10):2020				
Frequency Range:	9 kHz to 25 (GHz	3			
Measurement Distance:	3 m	K	9		S.	
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Refer to item		((
	Frequency	Detector	RBW	VBW	Remark	~
	9kHz- 150kHz	Quasi-peal		1kHz	Quasi-peak V	
Receiver Setup:	150kHz- 30MHz	Quasi-peal		30kHz	Quasi-peak Val	
	30MHz-1GHz	Quasi-peal	k 120KHz	300KHz	Quasi-peak V	/alue
	Above 1GHz	Peak	1MHz	3MHz	Peak Valu	le
		Peak	1MHz	10Hz	Average Va	lue
	Frequen	су	Field Stre (microvolts	•	Measureme Distance (met	
	0.009-0.4	490	2400/F(I	,	300	
	0.490-1.7		24000/F(KHz)	30	
	1.705-3		30		30	
	30-88		<u>100</u> 150		3	
Limit:	216-96		200		3	
	Above 9		500		3	/
		(دَ		$\langle \mathbf{O} \rangle$		K
	Frequency		d Strength ovolts/meter)	Measure Distan (meter	ce Detec	tor
	Above 1GH	. (500	3	Avera	ige
	Above IGH.	2	5000	3	Pea	k
Test setup:	For radiated	Turn table	s below 30	Pre -/	Computer	

Page 15 of 45



CT 通测检测 TESTING CENTRE TECHNOLOGY	Report No.: TCT250306E
	 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

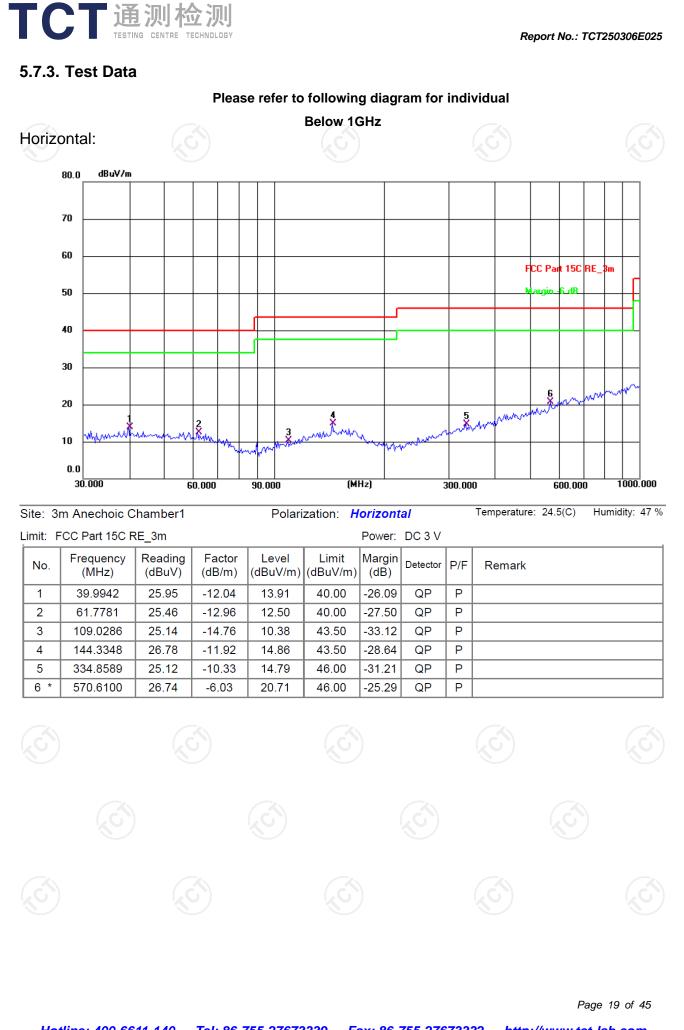
5.7.2. Test Instruments

TCT通测检测 TESTING CENTRE TECHNOLOGY

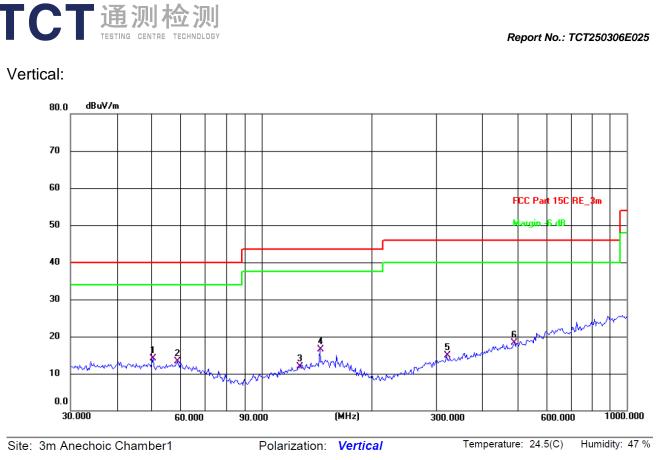
	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI7	100529	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 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	1	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	KO (Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM		
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	

Page 18 of 45

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



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



Limit:	FCC Part 15C F	RE_3m				Power:	DC 3 V		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	50.4089	26.39	-12.31	14.08	40.00	-25.92	QP	Ρ	
2	58.8185	25.90	-12.68	13.22	40.00	-26.78	QP	Ρ	
3	126.3286	24.92	-12.93	11.99	43.50	-31.51	QP	Ρ	
4	144.3348	28.39	-11.92	16.47	43.50	-27.03	QP	Ρ	
5	321.0608	25.50	-10.53	14.97	46.00	-31.03	QP	Ρ	
6	492.4685	26.11	-7.75	18.36	46.00	-27.64	QP	Ρ	

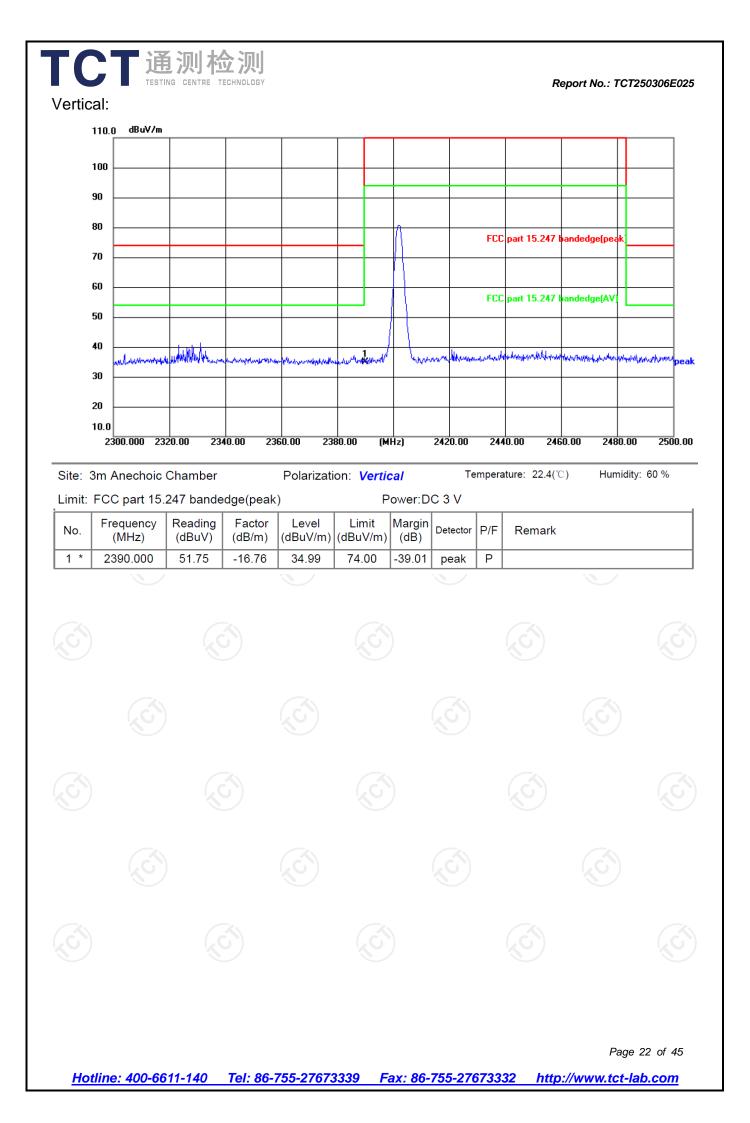
Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

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

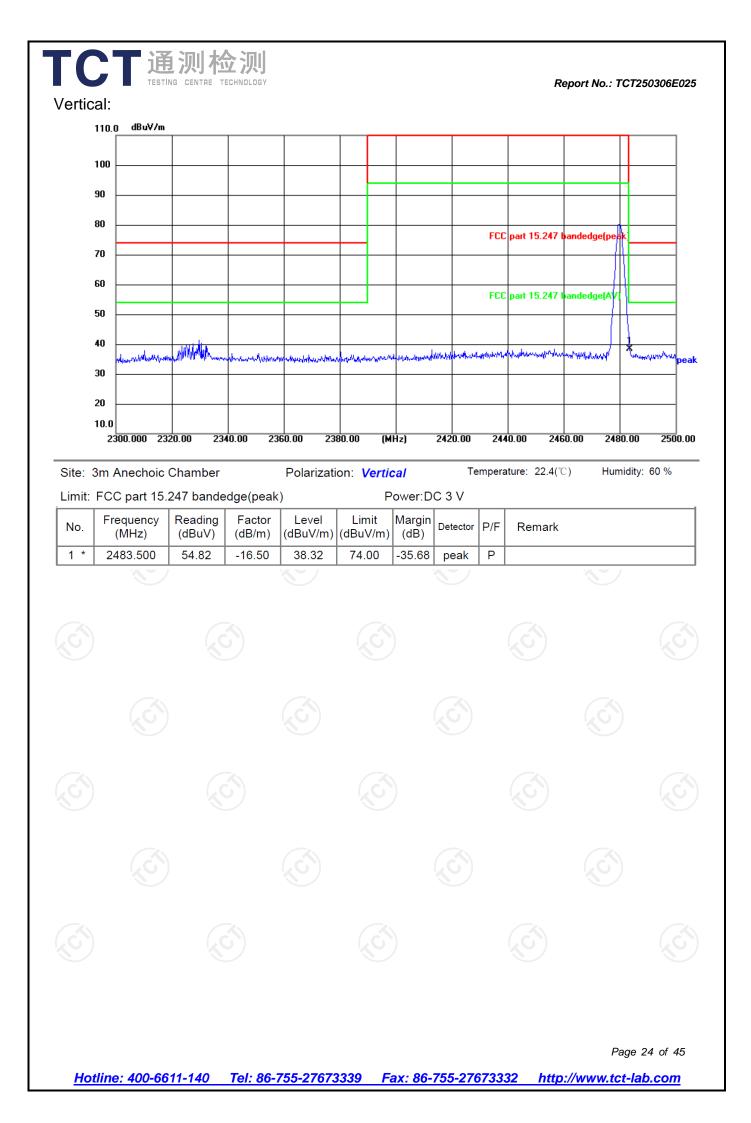
- 3. Freq. = Emission frequency in MHz
 - Measurement ($dB\mu V/m$) = Reading level ($dB\mu V$) + Corr. Factor (dB) Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
 - Limit (dBµV/m) = Limit stated in standard
 - Margin (dB) = Measurement (dB μ V/m) Limits (dB μ V/m)
 - * is meaning the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

Page 20 of 45

	ntal:												
1	10.0 dBuV/m												
10	00												
91						Λ							
81 71									FCC	part 15.247	bandedge(pe	sk	
6													
5									FCC	part 15.247	bandedge(AV		
4		and the second second			1		<u> </u>						
3		a Martin Martin	and the second	human	- Junitra	andred	Water	HANNI JANAKANA M	with-rail	an a	n Manana ang ang ang ang ang ang ang ang an	Mr. Lehhur	Kantara
20	ı							_					
: 31	n Anechoic (CC part 15.2	Chamber 247 bande	dge(peak	Polarizatio		Pow	tal ′er:D0			10.00 241		30.00 nidity:	25 60 %
: 3r it: F	2300.000 23 n Anechoic (CC part 15.2 Frequency (MHz)	Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Ho</i> Lim (dBuV	orizon Pow nit Ma //m) (<i>tal</i> /er:DC argin dB)	Te C 3 V Detector	mpera		C) Hur		
: 3r it: F	2300.000 23: n Anechoic d CC part 15.2 Frequency	Chamber 247 bande Reading	dge(peak Factor	Polarizatio)	on: <i>H</i> o	orizon Pow nit Ma //m) (<i>tal</i> rer:D0	Te C 3 V	mpera	iture: 22.4(°	C) Hur		
: 3r it: F	2300.000 23 n Anechoic (CC part 15.2 Frequency (MHz)	Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Ho</i> Lim (dBuV	orizon Pow nit Ma //m) (<i>tal</i> /er:DC argin dB)	Te C 3 V Detector	mpera	iture: 22.4(°	C) Hur		
: 3r it: F	2300.000 23 n Anechoic (CC part 15.2 Frequency (MHz)	Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Ho</i> Lim (dBuV	orizon Pow nit Ma //m) (<i>tal</i> /er:DC argin dB)	Te C 3 V Detector	mpera	iture: 22.4(°	C) Hur		
: 3r it: F	2300.000 23 n Anechoic (CC part 15.2 Frequency (MHz)	Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Ho</i> Lim (dBuV	orizon Pow nit Ma //m) (<i>tal</i> /er:DC argin dB)	Te C 3 V Detector	mpera	iture: 22.4(°	C) Hur		
: 3r it: F	2300.000 23 n Anechoic (CC part 15.2 Frequency (MHz)	Chamber 247 bande Reading (dBuV)	dge(peak Factor (dB/m)	Polarizatio	on: <i>Ho</i> Lim (dBuV	orizon Pow nit Ma //m) (<i>tal</i> /er:DC argin dB)	Te C 3 V Detector	mpera	iture: 22.4(°	C) Hur		



110).() dBuV/m											
10)											
90												_
80								FCC	part 15.247	bandedge(p	eak	
70											\mathbb{H}	
60								FCC	part 15.247	andedge(A	怚	
50 40											×	
40 30	and a second and a second	Whitehan	uteden strenden terret	hourseman	an international states and	the here the production is	algerender utbewe	Antonia	aller millions	manahan	her.	eller and the second
20												
10.	o											
: 3m	2300.000 232 Anechoic C CC part 15.2	Chamber 247 bandeo		Polarizatio		-		244	0.00 246 ure: 22.4(°		480.00 umidity:	250 0.0
: 3m it: F(Anechoic C CC part 15.2 Frequency	Chamber 247 bandeo Reading	dge(peak) Factor	Polarizatio	on: <i>Horizo</i> Po Limit	ontal ower:DC Margin	Tem	nperat		C) H		
: 3m it: F0	Anechoic C CC part 15.2	Chamber 247 bandeo	dge(peak)	Polarizatio	on: <i>Horizo</i> Po	ontal ower:DC Margin	Tem 3 V	nperat	ure: 22.4(°	C) H		
: 3m it: F(Anechoic C CC part 15.2 Frequency (MHz)	Chamber 247 bandeo Reading (dBuV)	dge(peak) Factor (dB/m)	Polarizatio	on: <i>Horizo</i> Po Limit (dBuV/m)	ontal ower:DC Margin (dB)	Tem 3 V Detector	perat	ure: 22.4(°	C) H		
: 3m it: F(Anechoic C CC part 15.2 Frequency (MHz)	Chamber 247 bandeo Reading (dBuV)	dge(peak) Factor (dB/m)	Polarizatio	on: <i>Horizo</i> Po Limit (dBuV/m)	ontal ower:DC Margin (dB)	Tem 3 V Detector	perat	ure: 22.4(°	C) H		
: 3m it: F(Anechoic C CC part 15.2 Frequency (MHz)	Chamber 247 bandeo Reading (dBuV)	dge(peak) Factor (dB/m)	Polarizatio	on: <i>Horizo</i> Po Limit (dBuV/m)	ontal ower:DC Margin (dB)	Tem 3 V Detector	perat	ure: 22.4(°	C) H		
: 3m it: F(Anechoic C CC part 15.2 Frequency (MHz)	Chamber 247 bandeo Reading (dBuV)	dge(peak) Factor (dB/m)	Polarizatio	on: <i>Horizo</i> Po Limit (dBuV/m)	ontal ower:DC Margin (dB)	Tem 3 V Detector	perat	ure: 22.4(°	C) H		



Above 1GHz

Low channe	el: 2402 M	lHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	A \ /	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	53.85		-9.51	44.34		74	54	-9.66
7206	Н	44.16		-1.41	42.75		74	54	-11.25
	Н								
								1	
4804	V	53.07		-9.51	43.56		74	54	-10.44
7206	V	44.12		-1.41	42.71	<u>.C</u>	74	54	-11.29
	V				``				

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)	AV limit (dBµV/m)	Margin (dB)
4880	Н	53.35		-9.36	43.99	 74	54	-10.01
7320	Н	43.99		-1.15	42.84	 74	54	-11.16
	H			<u> </u>	/	 		
ļ			Ň)				
4880	V	54.08		-9.36	44.72	74	54	-9.28
7320	V	43.99		-1.15	42.84	 74	54	-11.16
	V					 		
				(.6				(, ć

High chann	nel: 2480 N	ЛНz		No.					
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)		n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4960	Н	53.47		-9.20	44.27		74	54	-9.73
7440	Н	43.32		-0.96	42.36		74	54	-11.64
	Η								
4960	V	54.96		-9.20	45.76		74	54	-8.24
7440	V	43.80		-0.96	42.84		74	54	-11.16
	V	<u> </u>		V	J				

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.



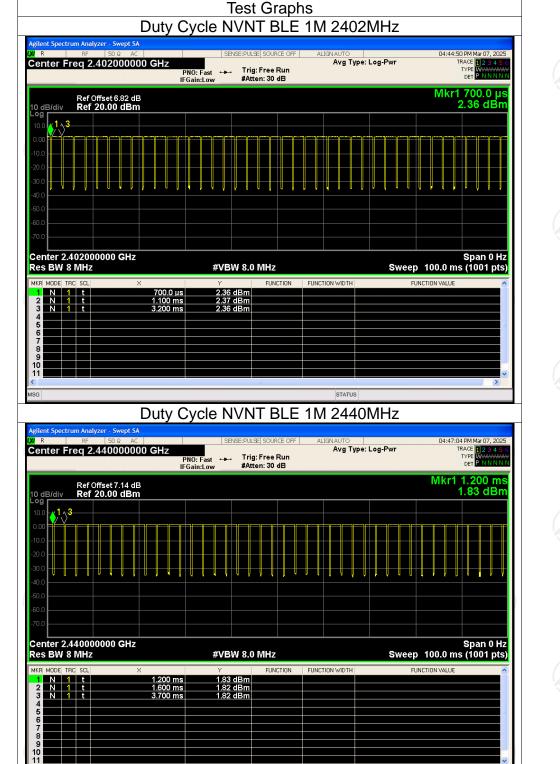
Appendix A: Test Result of Conducted Test

(i)		Duty	Cycle		(3
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	P
NVNT	BLE 1M	2402	88.01	0.55	0.48	1
NVNT	BLE 1M	2440	88.01	0.55	0.48	
NVNT	BLE 1M	2480	91.31	0.39	0.48	

			Page	26 of 45

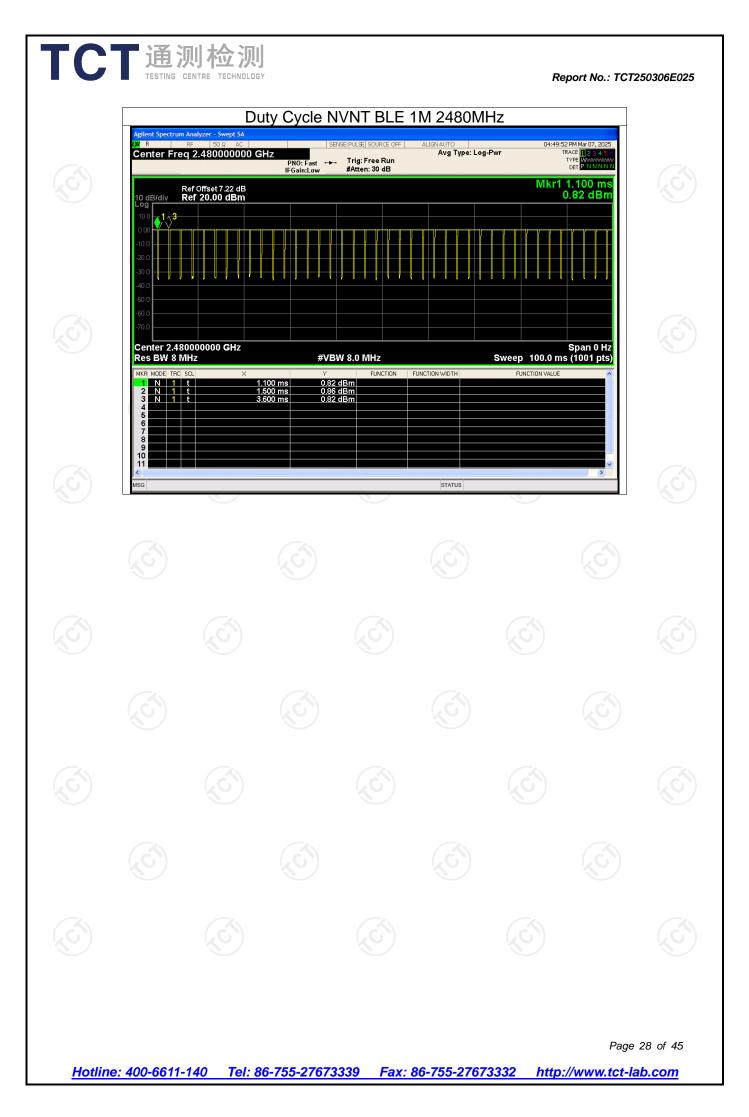
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

STATUS





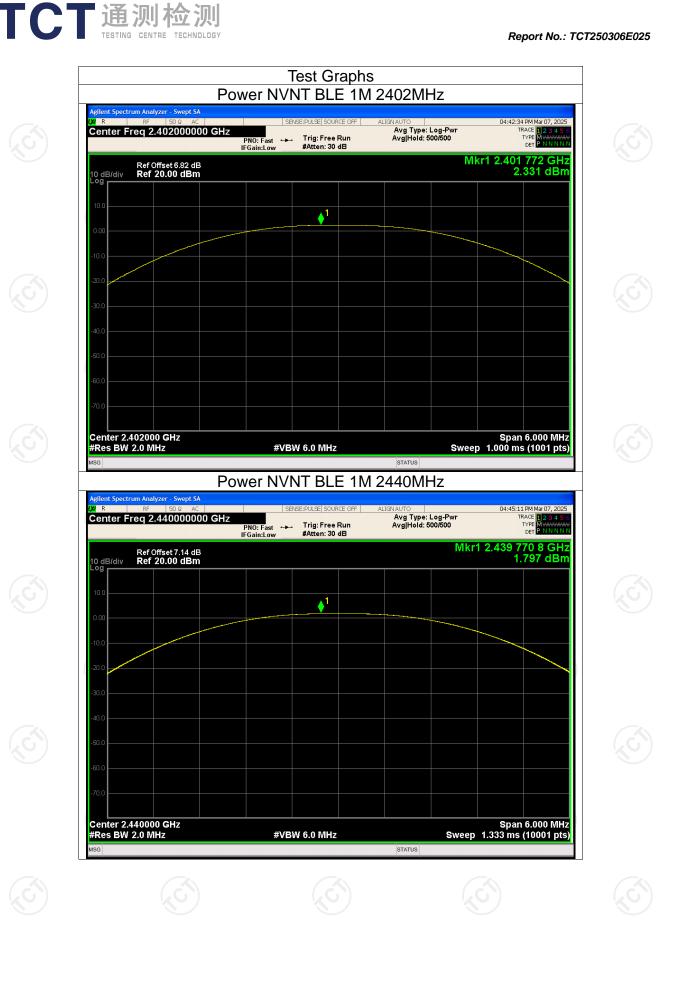




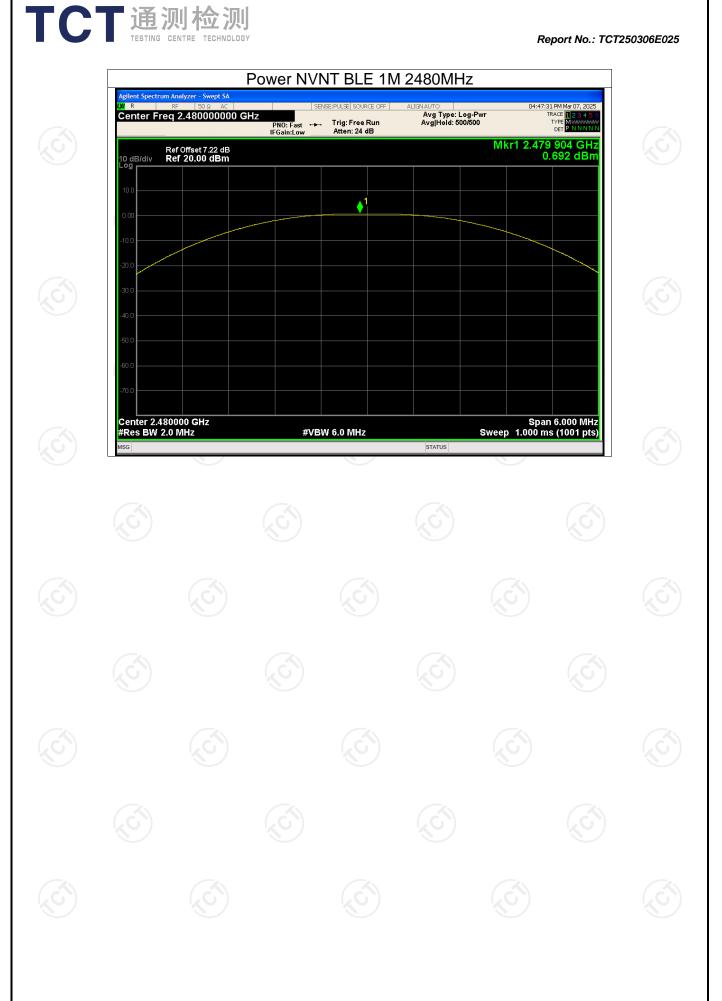
t	Verdict	Limit (dBm)	Dutput Pov ducted er (dBm)	Frequency (MHz)	Mode	Condition	C
	Pass Pass Pass	30 30 30 30	2.33 .80 0.69	2402 2440 2480	BLE 1M BLE 1M BLE 1M	NVNT NVNT NVNT	

TCT通测检测 TESTING CENTRE TECHNOLOGY

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



Page 30 of 45



Page 31 of 45

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

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

			(MHZ)	(MH		Bandwidt		
NVI NVI NVI	NT B	LE 1M LE 1M LE 1M	2402 2440 2480	0.66 0.65 0.66	59	0.5 0.5 0.5	5	Pass Pass Pass

		-6	dB Bandwidth		
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	0.668	0.5	Pass
NVNT	BLE 1M	2440	0.659	0.5	Pass
NVNT	BLE 1M	2480	0.661	0.5	Pass

Page 32 of 45



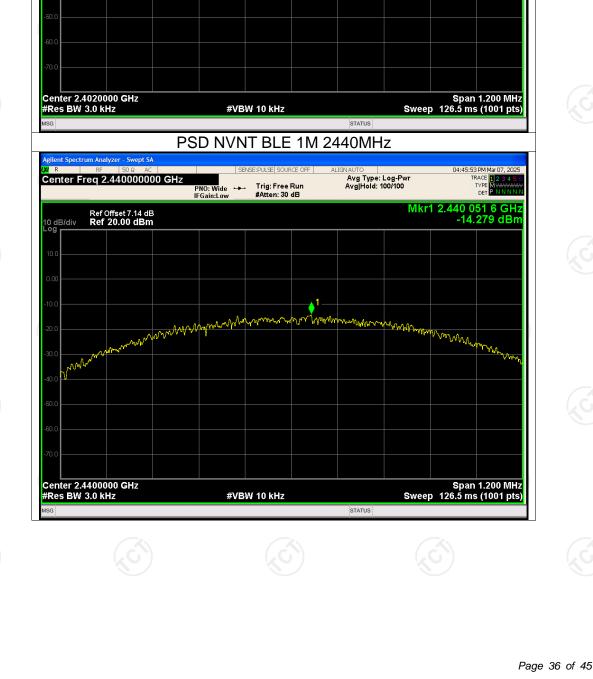




C	ondition	Mode	Frequency (MHz)	Spectral Densit Conducted P (dBm/3kHz	SD Limit	Verdict
5	NVNT NVNT NVNT	BLE 1M BLE 1M BLE 1M	2402 2440 2480	-13.83 -14.28 -15.23	8 8 8 8	Pass Pass Pass

TCT通测检测 TESTING CENTRE TECHNOLOGY

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



1 ym mmphannynynynin man Num

ø

Test Graphs PSD NVNT BLE 1M 2402MHz

Avg Type: Log-Pwr Avg|Hold: 100/100

SENSE:PULSE SOURCE OFF

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

TCT通测检测 TESTING CENTRE TECHNOLOGY

F

10 dB/div Log

gilent Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Ref Offset 6.82 dB Ref 20.00 dBm

Report No.: TCT250306E025

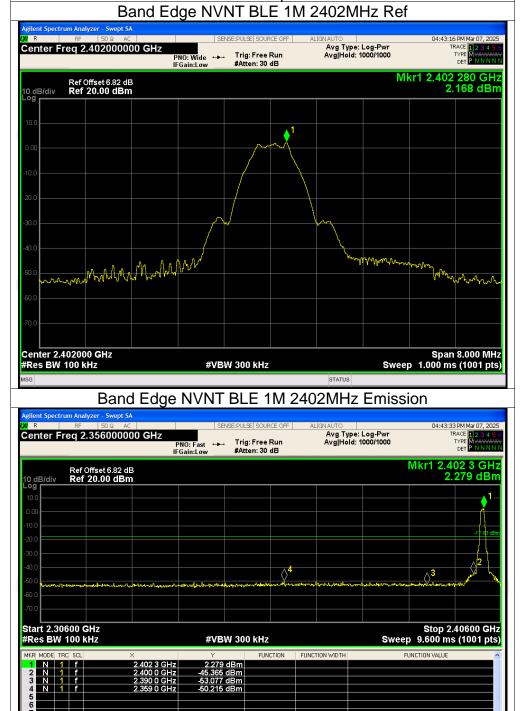
04:43:07 PM Mar 07, 2025

Mkr1 2.402 051 6 GHz -13.828 dBm

TRACE 123456 TYPE MMMMMM DET PNNNNN

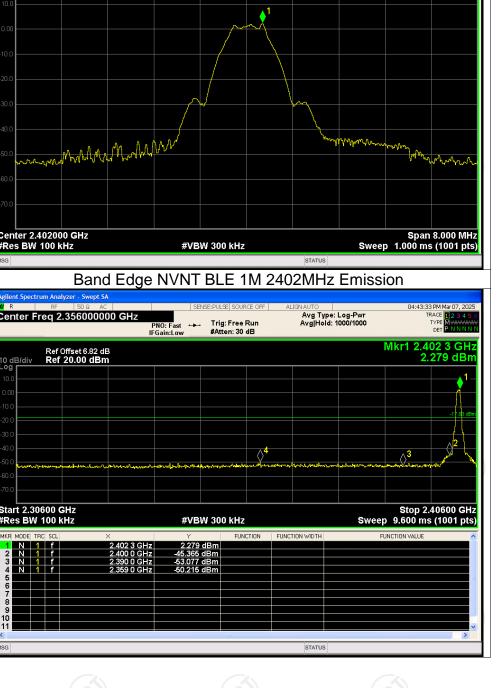
	BLE 1M 2480N	PSD NVN		
ALIGNAUTO 04:48:12 PM Mar 07, 2025 Avg Type: Log-Pwr TRACE 12:34:5 6 Avg Hold: 100/100 Type M Det P NNN N	Avg T	GHz PNO: Wide IFGain:Low	Agilent Spectrum Analyzer - Swept SA	
Mkr1 2.480 051 6 GHz -15.226 dBm	1		Ref Offset 7.22 dB 10 dB/div Ref 20.00 dBm 10.0 	
		ng Mprodugana (magadana) 	-20 0 -30 0 -40 0 -60 0 -70 0	
Span 1.200 MHz Sweep 126.5 ms (1001 pts)	10 kHz Statu	#VB\	Center 2.4800000 GHz #Res BW 3.0 kHz Msg	

Condi		Mode F	requency (I	Band Edg MHz) Ma	e x Value (dE	Bc) Lim	nit (dBc)	Verdict
NVN	IT E	BLE 1M	2402		-52.38		-20	Pass
NVN	NI E	BLE 1M	2480		-51.36	S	-20	Pass

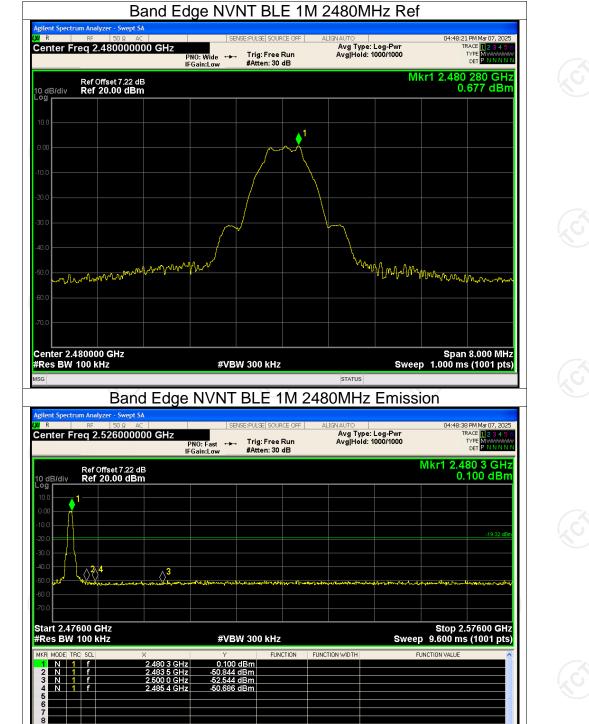


Test Graphs

TCT通测检测 TESTING CENTRE TECHNOLOGY



Report No.: TCT250306E025



TCT通测检测 TESTING CENTRE TECHNOLOGY

10 11 MSG



Report No.: TCT250306E025

Page 40 of 45





STATUS

	通测检测 ESTING CENTRE TECHNOLO		_	Report No.: TC	CT250306E02
Condition		Conducted	us Emissi x Value (d	nit (dBc)	Verdict
NVNT	BLE 1M	2402	-42.65	-20	Pass
NVNT	BLE 1M	2440	-41.98	-20	Pass
NVNT	BLE 1M	2480	-40.91	-20	Pass
				Pag	ge 41 of 45



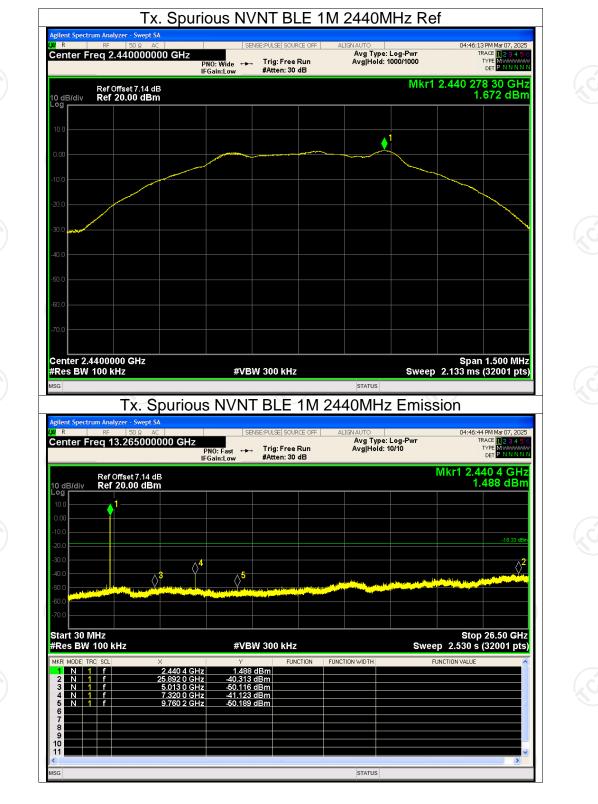
TCT通测检测 TESTING CENTRE TECHNOLOGY

Center Freq 13.265000000 GHz TRACE 1234 TYPE MWWW DET PNNN Avg Type: Log-Pwr Avg|Hold: 10/10 PNO: Fast $\leftrightarrow \rightarrow$ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.401 5 GHz -0.130 dBm Ref Offset 6.82 dB Ref 20.00 dBm 10 dB/di Log r \Diamond^4 Ő **⊘**3 **⊘**⁵ Stop 26.50 GHz Sweep 2.530 s (32001 pts) Start 30 MHz #Res BW 100 kHz #VBW 300 kHz FUNCTION WIDTH TION N 1 f N 1 f N 1 f N 1 f dBn dBn dBn dBn 0 G 7 G 0 G 9 G

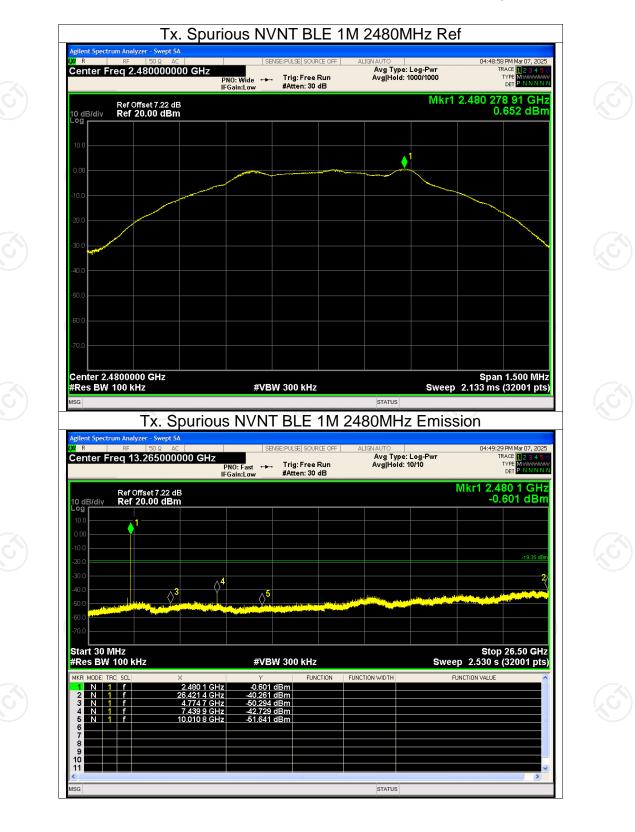
Report No.: TCT250306E025

04:43:53 PM Mar 07, 2025 TRACE 123456 TYPE MWWWW DET PNNNNN

04:44:24 PM Mar 07, 2025



Report No.: TCT250306E025



TCT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT250306E025

