	TEST RE	PORT	-	
FCC ID	2BMR6-K10			
Test Report No:	TCT250227E014			
Date of issue:	Mar. 11, 2025		Sec. 1	S
Testing laboratory::	SHENZHEN TONGCE	E TESTING I	_AB	<u></u>
Testing location/ address:	2101 & 2201, Zhencha Fuhai Subdistrict, Bao 518103, People's Rep	an District, S	Shenzhen, Gu	
Applicant's name: :	MEGA MULTIMEDIA	AI, INC.		
Address:	6565 Sunset Blvd Ste United States	402, Los An	geles, Califor	nia 90028, 🔍
Manufacturer's name :	MEGA MULTIMEDIA	AI, INC.		
Address:	6565 Sunset Blvd Ste United States			
Standard(s):	FCC CFR Title 47 Par FCC KDB 558074 D0' ANSI C63.10:2020			
Product Name::	INDOOR CAMERA			
Trade Mark:	Alaga			
Model/Type reference:	K10, K30, K50, A-CW	1303B, A-CV	V1303B-H, C	W1303B
Rating(s):	Input: DC 5 V, 1 A Adapter Information 1/ MODEL: BS05A-0501 INPUT: AC 100-240 V OUTPUT: DC 5 V, 100	000US ′, 50/60 Hz, (0.25 A Max	Ś
Date of receipt of test item	Feb. 27, 2025	S		
Date (s) of performance of test:	Feb. 27, 2025 ~ Mar. ′	11, 2025		
Tested by (+signature) :	Aaron MO		Aaron 100	GCET
Check by (+signature) :	Beryl ZHAO		Boyl 2 FT	CT

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	3
	1.2. Model(s) list	
	1.3. Operation Frequency	4
2.	Test Result Summary	5
3.	General Information	6
	3.1. Test environment and mode	6
	3.2. Description of Support Units	6
4.	Facilities and Accreditations	7
	4.1. Facilities	7
	4.2. Location	7
	4.3. Measurement Uncertainty	7
5.	Test Results and Measurement Data	8
	5.1. Antenna requirement	8
	5.2. Conducted Emission	
	5.3. Conducted Output Power	13
	5.4. Emission Bandwidth	14
	5.5. Power Spectral Density	
	5.6. Conducted Band Edge and Spurious Emission Measurement	16
	5.7. Radiated Spurious Emission Measurement	
Α	ppendix A: Test Result of Conducted Test	
Α	ppendix B: Photographs of Test Setup	
A	ppendix C: Photographs of EUT	
K.		



1. General Product Information

1.1. EUT description

Product Name:	INDOOR	CAMERA				
Model/Type reference:	K10			S S		
Sample Number:	TCT2502	27E014-01	01			
Bluetooth Version:	V5.4					
Operation Frequency:	2402MHz	z~2480MHz				
Channel Separation:	2MHz	(\mathbf{c}^{*})		(\mathbf{c}^{*})		(\mathbf{c}^{*})
Data Rate:	LE 1M PI	HY, LE 2M F	РНҮ			
Number of Channel:	40					
Modulation Type:	GFSK		S.		No.	
Antenna Type:	Chip Ante	enna				
Antenna Gain:	1.04dBi					
Rating(s):	MODEL: INPUT: A	5 V, 1 A nformation BS05A-050 C 100-240 : DC 5 V, 10	1000US V, 50/60 Hz	z, 0.25 A M	lax	

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).	T	ested with
1		K10			\boxtimes
Other models	K30, K50, A	A-CW1303B, A-CW	/1303B-H, CW1	303B	
different on the		are derivative models le pixel and product ap			

Report No.: TCT250227E014

0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
(1)	2404MHz	<u> </u>	2424MHz	21	2444MHz	31	2464MHz
			@	·			
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark: Ch	nannel 0, 19	& 39 have b	een tested.	R.			

Channel

Frequency

1.3. Operation Frequency

Page 4 of 57

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Report No.: TCT250227E014

Channel

Frequency





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.

Page 5 of 57

3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	24.3 °C	24.3 °C
Humidity:	51 % RH	50 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Software:		
Software Information:	SSCOM	
Power Level:	Default	
Test Mode:		

Engineer mode:

Keep the EUT in continuous transmitting by select channel and modulations.

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
				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.

Page 6 of 57



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:

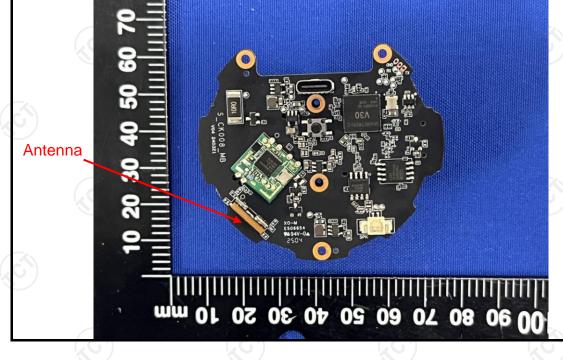
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 chip antenna which permanently attached, and the best case gain of the antenna is 1.04dBi.



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	Áverage
Limits:	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	Referenc	e Plane	
Test Setup:	40cm E.U.T AC powe Test table/Insulation plane	Filter	r AC power
	Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m	EMI Receiver	
Test Mode:	Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization N Test table height=0.8m Transmitting Mode	EMI Receiver	
Test Mode: Test Procedure:	Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization IN Test table height=0.8m Transmitting Mode 1. The E.U.T is connerimpedance stabilization provides a 500hm/s measuring equipme 2. The peripheral device power through a LI coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interference emission, the relative the interface cables	EMI Receiver etwork etwork etwork etwork etwork etwork fould to an adapted ation network 50uH coupling im nt. tes are also conner SN that provides e with 50ohm term diagram of the line are checked nce. In order to fin the positions of equals s must be changed	(L.I.S.N.). This pedance for the ected to the main a 50ohm/50uh nination. (Please test setup and ed for maximum nd the maximum ipment and all co jed according to
	Remark E.U.T: Equipment Under Test LISN Line Impedence Stabilization N Test table height=0.8m Transmitting Mode 1. The E.U.T is conner impedance stabiliz provides a 50ohm/s measuring equipme 2. The peripheral device power through a Li coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interferent emission, the relative	EMI Receiver etwork etwork etwork etwork etwork etwork fould to an adapted ation network 50uH coupling im nt. tes are also conner SN that provides e with 50ohm term diagram of the line are checked nce. In order to fin the positions of equals s must be changed	(L.I.S.N.). This apedance for the ected to the main a 500hm/50ul- nination. (Please test setup and ed for maximum nd the maximum ipment and all co ged according to

5.2.2. Test Instruments

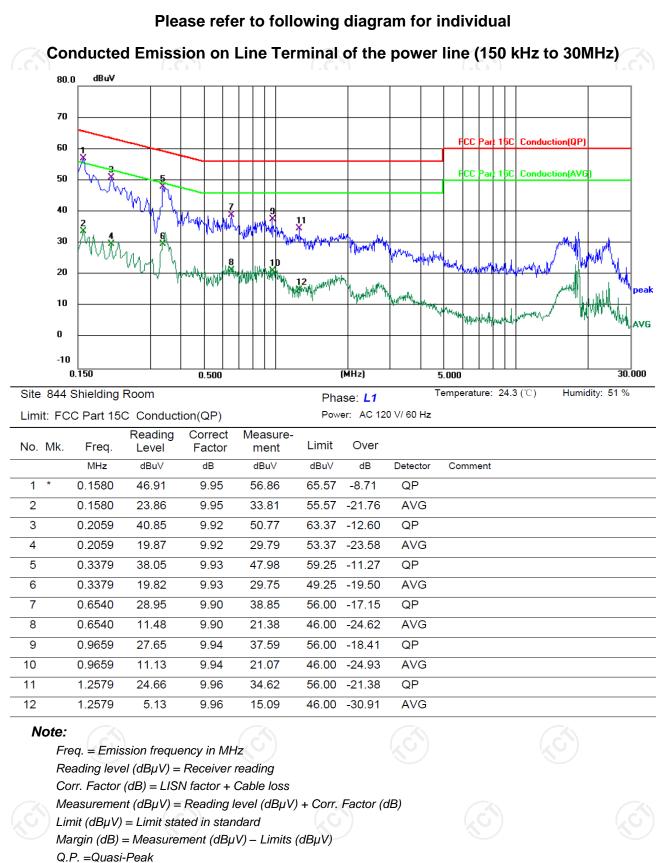
Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date	
EMI Test Receiver	R&S	ESCI3	100898	Jun. 27, 2024	Jun. 26, 2025	
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 21, 2025	Jan. 20, 2026	
Attenuator	N/A	10dB	164080	Jun. 27, 2024	Jun. 26, 2025	
Line-5	тст	CE-05	/	Jun. 27, 2024	Jun. 26, 2025	
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	(G)	10	



Page 10 of 57

5.2.3. Test data

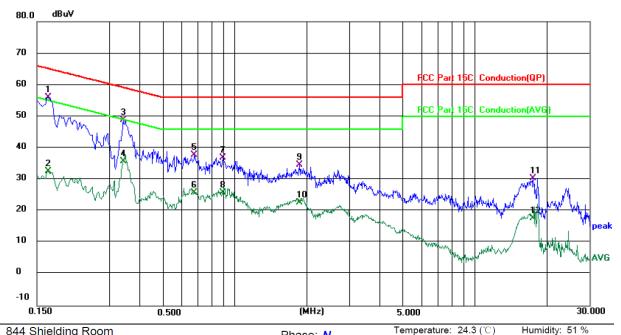
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AVG =average

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

Report No.: TCT250227E014



Phase: N

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

Site 844 Shielding Room

Power: AC 120 V/ 60 Hz Limit: FCC Part 15C Conduction(QP) Correct Reading Measure-Limit Over No. Mk. Freq. Level Factor ment

	MHz	dBuV	dB	dBu∨	dBuV	dB	Detector	Comment
1 *	0.1660	46.10	9.94	56.04	65.16	-9.12	QP	
2	0.1660	22.71	9.94	32.65	55.16	-22.51	AVG	
3	0.3420	38.88	9.93	48.81	59.15	-10.34	QP	
4	0.3420	25.95	9.93	35.88	49.15	-13.27	AVG	
5	0.6820	27.83	9.94	37.77	56.00	-18.23	QP	
6	0.6820	15.90	9.94	25.84	46.00	-20.16	AVG	
7	0.8940	26.96	9.96	36.92	56.00	-19.08	QP	
8	0.8940	16.01	9.96	25.97	46.00	-20.03	AVG	
9	1.8660	24.58	10.01	34.59	56.00	-21.41	QP	
10	1.8660	12.75	10.01	22.76	46.00	-23.24	AVG	
11	17.5100	19.86	10.56	30.42	60.00	-29.58	QP	
12	17.5100	7.19	10.56	17.75	50.00	-32.25	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

AVG =average

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

Note2: Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 1M speed modulation. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Lowest channel) was submitted only.



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

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/		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

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	1



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 greated 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.5. Measure and record the results in the test report.					

5.5.2. Test Instruments

Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/	/
(c)		(\mathcal{C})	(\mathcal{O})	(,	GN)

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 7	15.247 (d)	
Test Method:	KDB 558074 D01 v05r0)2	e
Limit:	In any 100 kHz band 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 nall be attenuated at lea aximum PSD level in 10 rement and radiated ted bands, as defined i comply with the radiated	II in the ast 20 dB / 00 kHz by emissions in Section
Test Setup:	Spectrum Analyzer	— <mark>- С</mark>	
Test Mode:	Refer to item 3.1	(\mathcal{S})	Ŕ
Test Procedure:	 compensated to the 2. Set to the maximum period 3. Set RBW = 100 kHz, Unwanted Emission bandwidth outside of shall be attenuated to maximum in-band period maximum peak condused. If the transmitted 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 power setting and enab uously. VBW=300 kHz, Peak I s measured in any 100 f the authorized frequer by at least 20 dB relativ eak PSD level in 100 kH ducted output power pro- ter complies with the co on the use of RMS avera attenuation required unc 30 dB instead of 20 dB p the results in the test re- frequency should be ex-	rement. le the Detector. kHz ncy band e to the Hz when ocedure is onducted aging over der this per
	against the limit line	in the operating freque	



5.6.2. Test Instruments

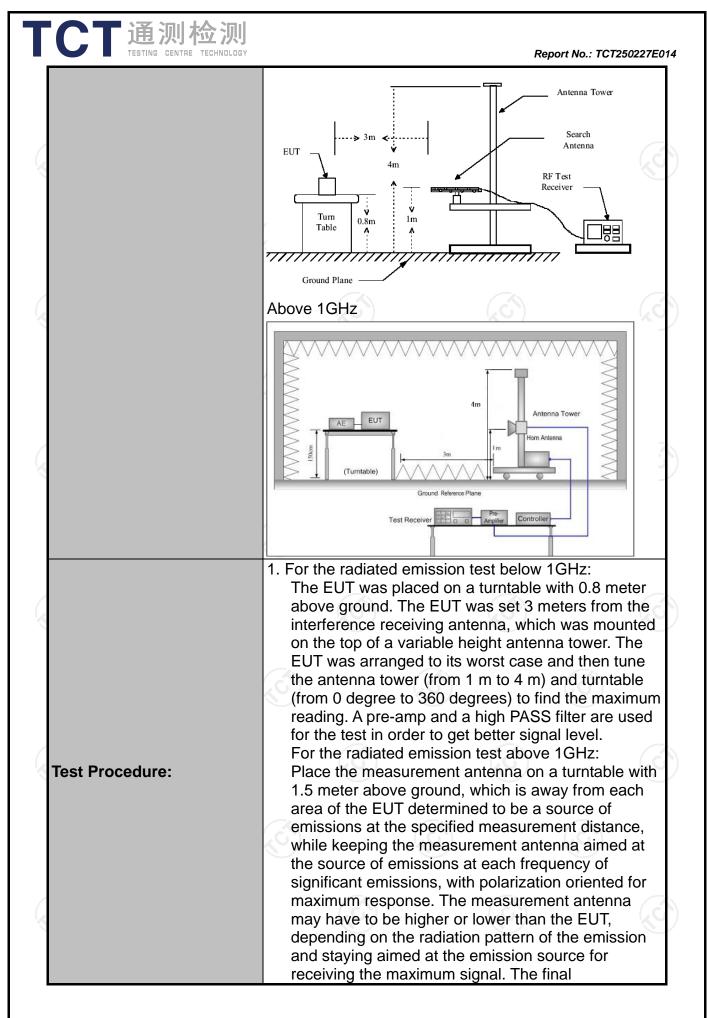
Agilent ox Ascentest	N9020A	Number MY49100619	Jun. 27, 2024	Jun. 26, 2025
ox Ascentest	AT890-RFB	,	1	+
		/	/	/
^(C)		(C)	(S)

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			
Test Method:	ANSI C63.10):2020				
Frequency Range:	9 kHz to 25 (GHz	~			6
Measurement Distance:	3 m	X	9)		K.	Ĵ
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Refer to item 3.1					G
	Frequency	Detector	RBW	VBW		Remark
	9kHz- 150kHz	Quasi-peak		1kHz		si-peak Value
Receiver Setup:	150kHz- 30MHz	Quasi-peak		30kHz		si-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	si-peak Value
		Peak	1MHz	3MHz		eak Value
	Above 1GHz	Peak	1MHz	10Hz		erage Value
	Frequen	су	Field Stro (microvolts			asurement nce (meters)
	0.009-0.4		2400/F(KHz)		300
	0.490-1.705		24000/F	(KHz)	30	
	1.705-30		30		30	
	30-88		100		3	
	88-216		150		3	
Limit:	216-96		200		3	
	Above 960		500			3
			Field Strength		ment	
	Frequency		volts/meter)	Distand (meters		Detector
	Above 1GHz	,	500		(.c	Average
			5000	3	8	Peak
	For radiated	emissions	s below 30	MHz		
	Di	stance = 3m			Compu	ter
	Pre -Amplifier					
Test setup:						
lest setup.	EUT 0.8m Turn table					
	Ground Plane					
	30MHz to 10					



CT通测检测	
TESTING CENTRE TECHNOLOGY	Report No.: TCT250227E014
	 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.
	when duty cycle is no less than 96 percent. VBW 2 1/1, when duty cycle is 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

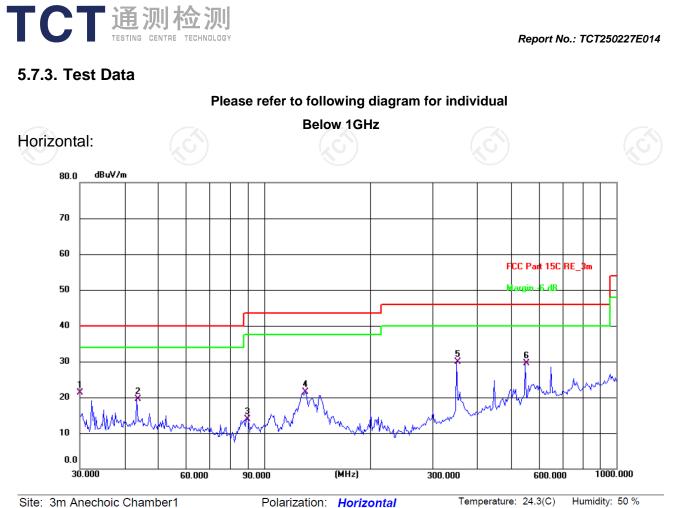
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5.7.2. Test Instruments

	F	Radiated Emissio	n Test Site (966)		
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024	Jun. 26, 2025
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 27, 2024	Jun. 26, 2025
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 23, 2025	Jan. 22, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	1	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	P	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	1	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	1	Jun. 27, 2024	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/	/
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	1	1

Page 21 of 57

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Site: 3m Anechoic Chamber1 Polarization: Horizontal

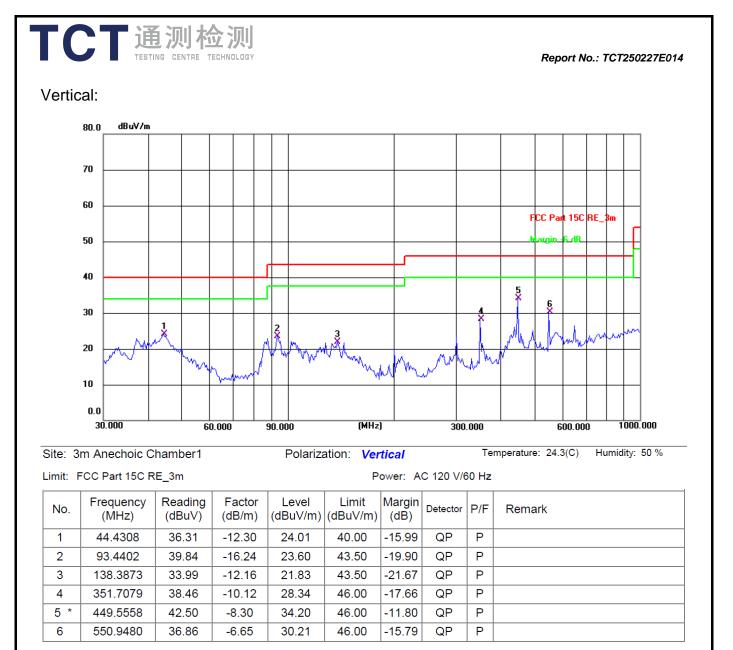
Limit: FCC Part 15C RE_3m

Power: AC 120 V/60 Hz

		_							
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	30.0000	34.19	-12.90	21.29	40.00	-18.71	QP	Р	
2	43.5057	31.73	-12.27	19.46	40.00	-20.54	QP	Р	
3	88.9639	30.72	-16.74	13.98	43.50	-29.52	QP	Ρ	
4	130.8369	34.12	-12.53	21.59	43.50	-21.91	QP	Р	
5 *	351.7079	40.02	-10.12	29.90	46.00	-16.10	QP	Р	
6	550.9480	36.13	-6.65	29.48	46.00	-16.52	QP	Ρ	

Page 22 of 57





- **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. Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 1M speed modulation. 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

 $\begin{aligned} \textit{Measurement} (\textit{dB}\mu\textit{V/m}) = \textit{Reading level} (\textit{dB}\mu\textit{V}) + \textit{Corr. Factor} (\textit{dB}) \\ \textit{Correction Factor} = \textit{Antenna Factor} + \textit{Cable loss} - \textit{Pre-amplifier} \end{aligned}$

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

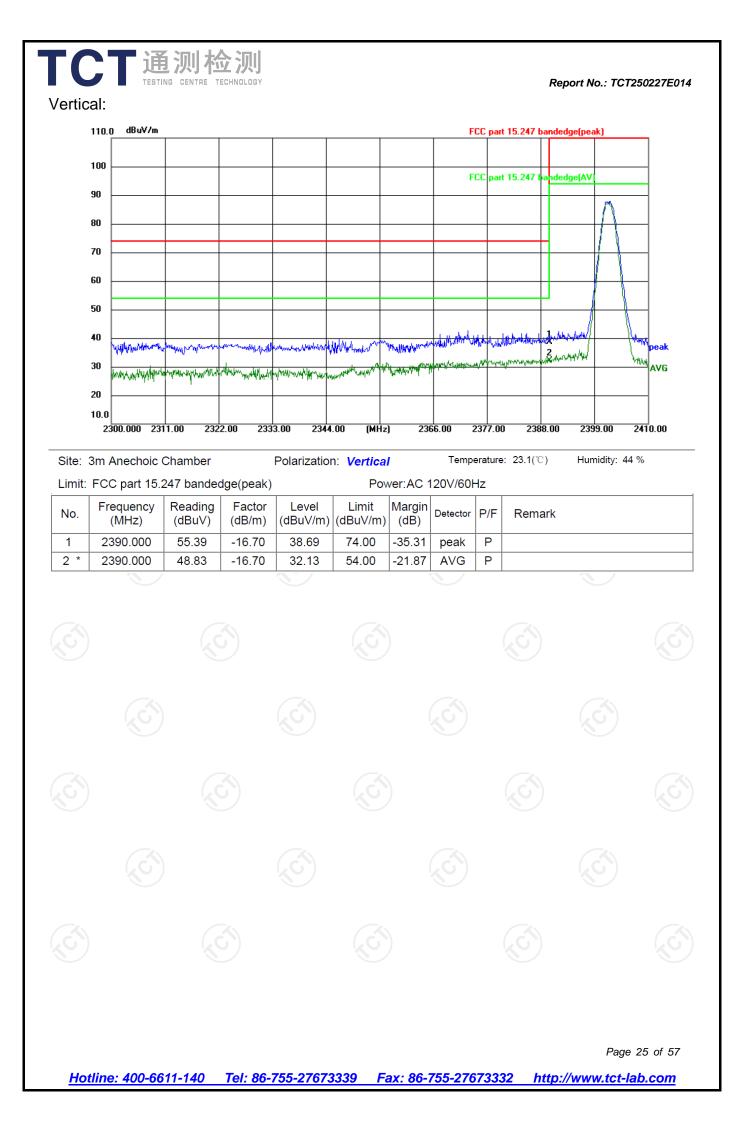
Margin (dB) = Measurement (dB μ V/m) – Limits (dB μ V/m)

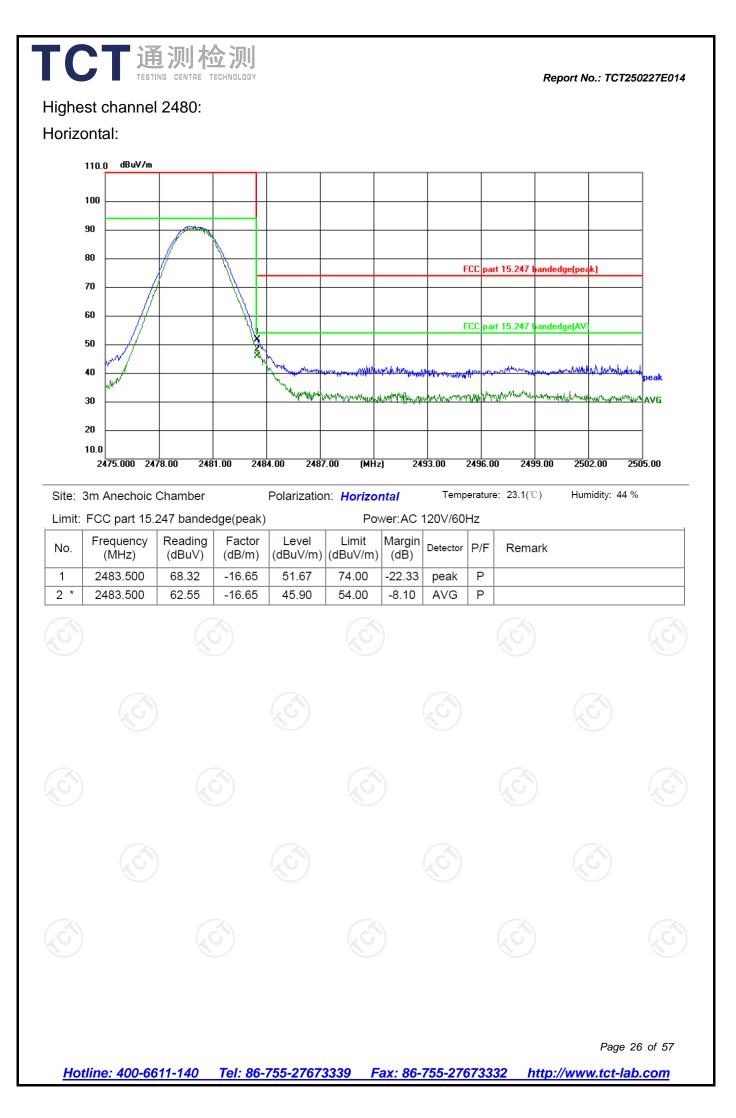
 * is meaning the worst frequency has been tested in the test frequency range

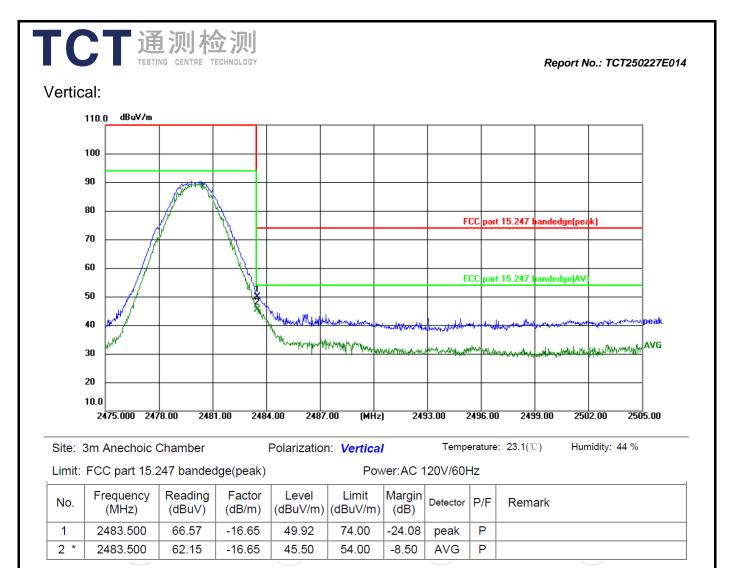
Page 23 of 57

TCT通测检测 TCT通测检测 Report No.: TCT250227E014 Test Result of Radiated Spurious at Band edges Lowest channel 2402: Horizontal: dBuV/m FCC part 15.247 bandedge(peak) 110.0 100 FCC part 15.247 bandedge(AV 90 80 70 60 50 Ĵ 40 altrade and the state of the st WILMMAN AMMANA MILLING WILMMAN well-have films water a filler water 30 the state of the s AVG Hiller La Milling Hawkard and difference M/WW-10--761900 20 10.0 2300.000 2311.00 2322.00 2333.00 2344.00 (MHz) 2366.00 2377.00 2388.00 2399.00 2410.00 Humidity: 44 % Temperature: 23.1(℃) Site: 3m Anechoic Chamber Polarization: Horizontal Limit: FCC part 15.247 bandedge(peak) Power: AC 120V/60Hz Reading Frequency Factor Level Limit Margin P/F No. Detector Remark (MHz) (dBuV) (dB/m)(dBuV/m) (dBuV/m) (dB) 2390.000 58.10 -16.70 41.40 74.00 -32.60 Ρ 1 peak 2390.000 49.90 -16.70 33.20 54.00 -20.80 Ρ 2 * AVG

Page 24 of 57







Note: Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report,



CT通测检测 TESTING CENTRE TECHNOLOGY

Above 1GHz

Low char	nnel: 2402	MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4804	Н	56.34		-9.51	46.83		74	54	-7.17
7206	Н	46.58		-1.41	45.17		74	54	-8.83
	Н								
4804	V	56.70		-9.51	47.19		74	54	-6.81
7206	V	46.15		-1.41	44.74	<u>. (,)</u> -	74	54	-9.26
	V				``	<u> </u>			

Middle channel: 2440 MHz

Frequency	Ant Pol	Peak	AV	Correction	Emissio	on Level	Peak limit	AV/ limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)		(dBµV/m)		(dB)
4880	Н	56.03		-9.36	46.67		74	54	-7.33
7320	Н	46.96		-1.15	45.81		74	54	-8.19
	Н				/				
			K0				•	KO /	
4880	V	55.47		-9.36	46.11	<u> </u>	74	54	-7.89
7320	V	45.21		-1.15	44.06		74	54	-9.94
	V								

High chanr	nel: 2480 N	ЛНz		6)				2
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)
4960	Н	55.83	-+	-9.20	46.63		74	54	-7.37
7440	H	44.67		-0.96	43.71		74	54	-10.29
	Н								
						-	-		
4960	V	54.28		-9.20	45.08		74	54	-8.92
7440	V	45.10		-0.96	44.14		74	54	-9.86
<u> </u>	V				/				<u> </u>

Note:

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

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

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

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

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

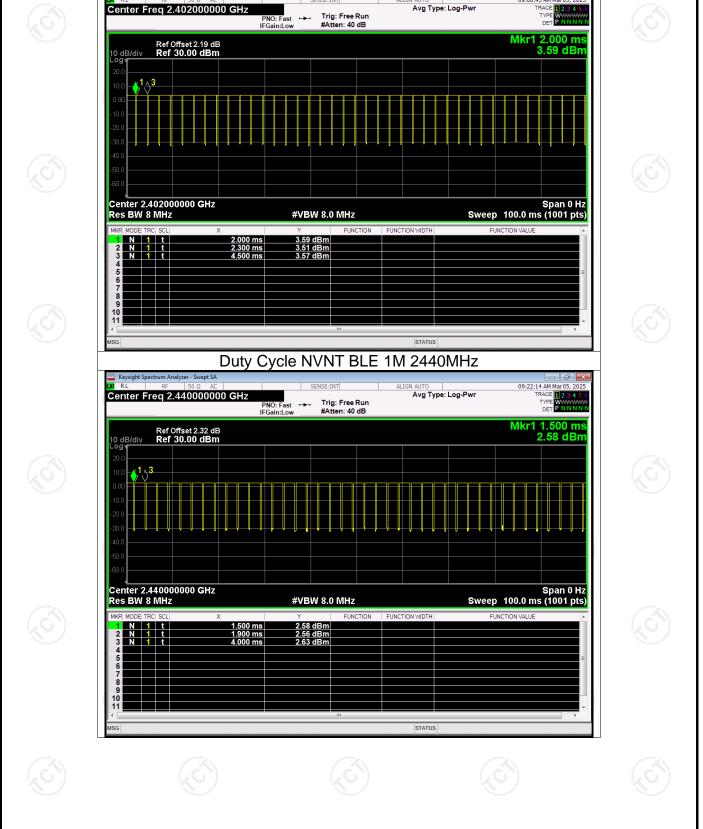
6. Speed for 1M and 2M modulations of EUT have been tested, but the test data only show the worst case in this report, and we found the worst case is 1M speed modulation.

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



Appendix A: Test Result of Conducted Test

		Duty (
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	
NVNT NVNT NVNT NVNT	BLE 1M BLE 1M BLE 1M BLE 2M	2402 2440 2480 2402	92.01 88.01 92.01 62.94	0.36 0.55 0.36 2.01	
NVNT NVNT	BLE 2M BLE 2M	2440 2480	61.34 61.54	2.12 2.11	
				Page 2	9 of 57



Test Graphs Duty Cycle NVNT BLE 1M 2402MHz

Avg Type: Log-Pwr

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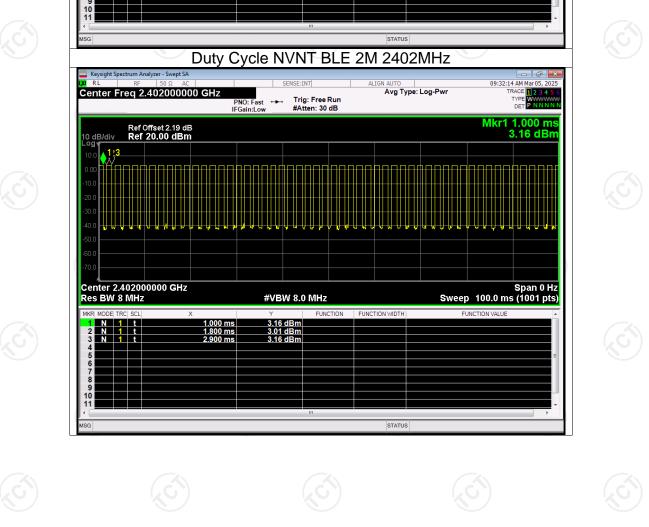
Keysight Spectrum Analyzer - Swept S/

Center Freq 2.402000000 GHz

Report No.: TCT250227E014

09:06:45 AM Mar 05, 2025

Page 30 of 57



Ref Offset 2.41 dB Ref 30.00 dBm

PNO: Fast +++

Keysight S

Center Freq 2.480000000 GHz

Duty Cycle NVNT BLE 1M 2480MHz

Trig: Free Run #Atten: 40 dB ALIGN

Avg Type: Log-Pwr

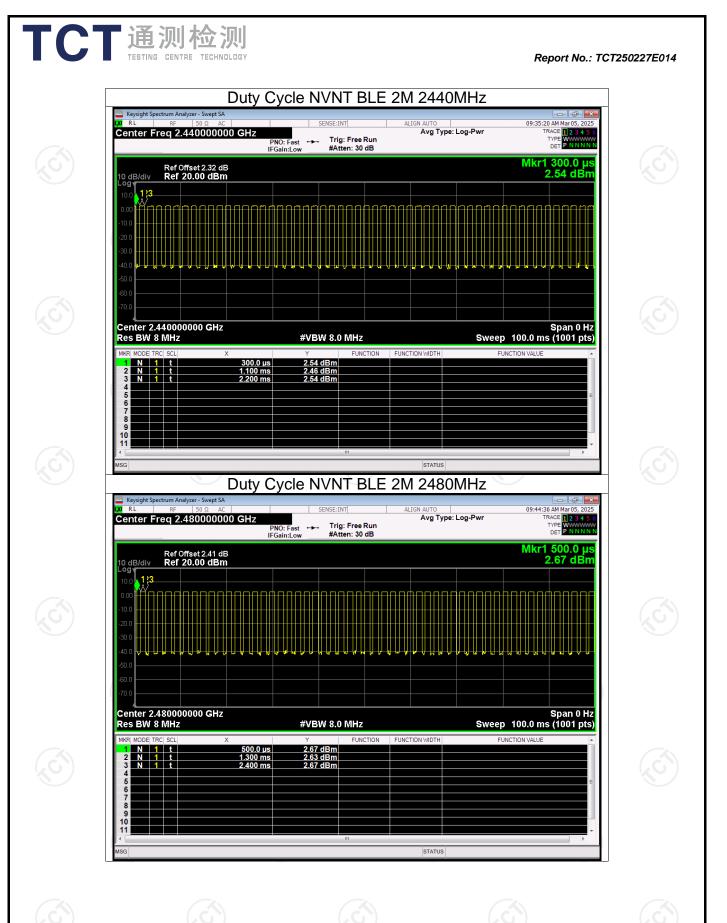
Page 31 of 57

Report No.: TCT250227E014

09:25:43 AM Mar 05, 2025 TRACE 1 2 3 4 5

TYP DE

Mkr1 2.200 ms 2.60 dBm



Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	3.58	30	Pass
NVNT	BLE 1M	2440	2.55	30	Pass
NVNT	BLE 1M	2480	2.70	30	Pass
NVNT	BLE 2M	2402	3.15	30	Pass
NVNT	BLE 2M	2440	2.51	30	Pass
NVNT	BLE 2M	2480	2.64	30	Pass

Maximum Conducted Output Power









TCT通测检测 TCT通测检测







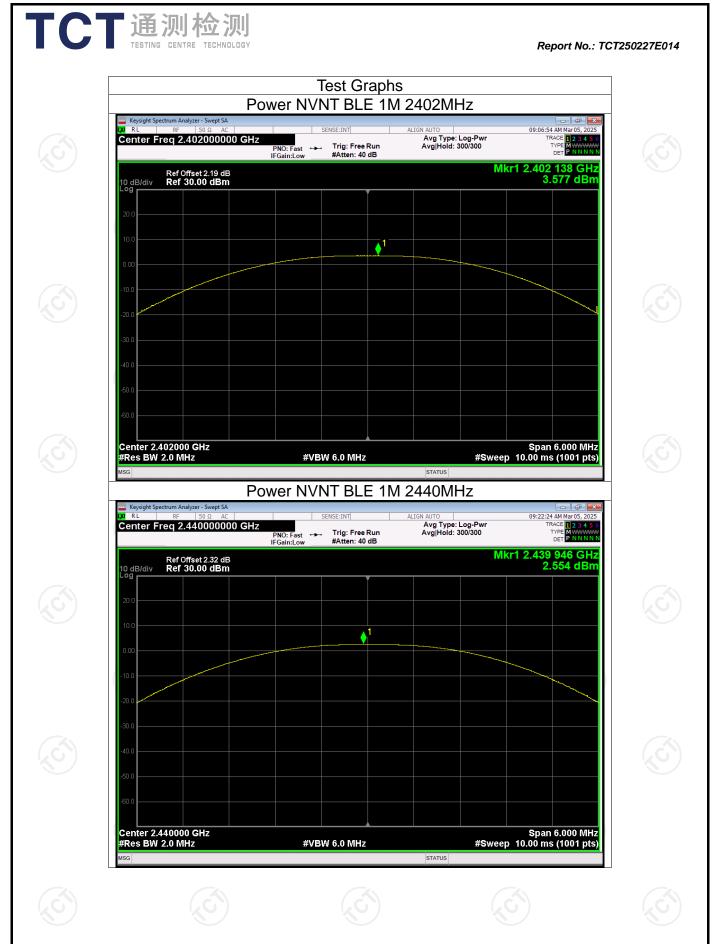


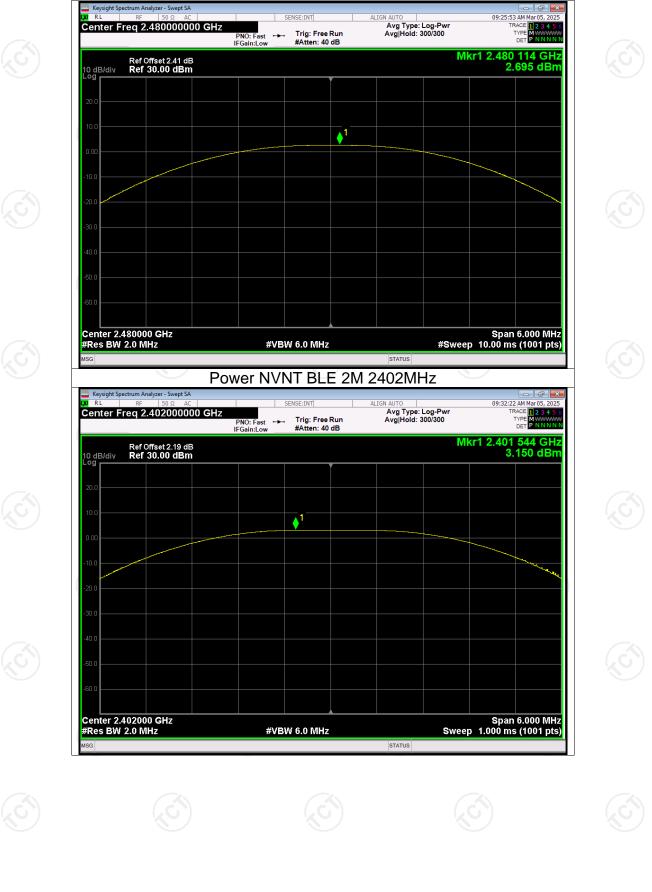




Page 33 of 57

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Power NVNT BLE 1M 2480MHz

Report No.: TCT250227E014

Page 35 of 57



09:35:31 AM Mar 05, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N Avg Type: Log-Pwr Avg|Hold: 300/300 Center Freq 2.440000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast ↔→ IFGain:Low Mkr1 2.439 490 GHz 2.511 dBm Ref Offset 2.32 dB Ref 20.00 dBm 10 dB/div Log **≜**¹ Center 2.440000 GHz #Res BW 2.0 MHz Span 6.000 MHz #Sweep 10.00 ms (1001 pts) #VBW 6.0 MHz STATUS Power NVNT BLE 2M 2480MHz Keysight Spectrum Analyzer - Swept SA 09:44:45 AM Mar 05 KI RL Center Freq 2.480000000 GHz TYPE MWWWW DET P NNNN Avg Type: Log-Pw Avg|Hold: 300/300 PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB Mkr1 2.479 556 GHz 2.636 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Log **♦**¹ Center 2.480000 GHz #Res BW 2.0 MHz Span 6.000 MHz Sweep 1.000 ms (1001 pts) #VBW 6.0 MHz STATUS

Power NVNT BLE 2M 2440MHz

Report No.: TCT250227E014











KI RL

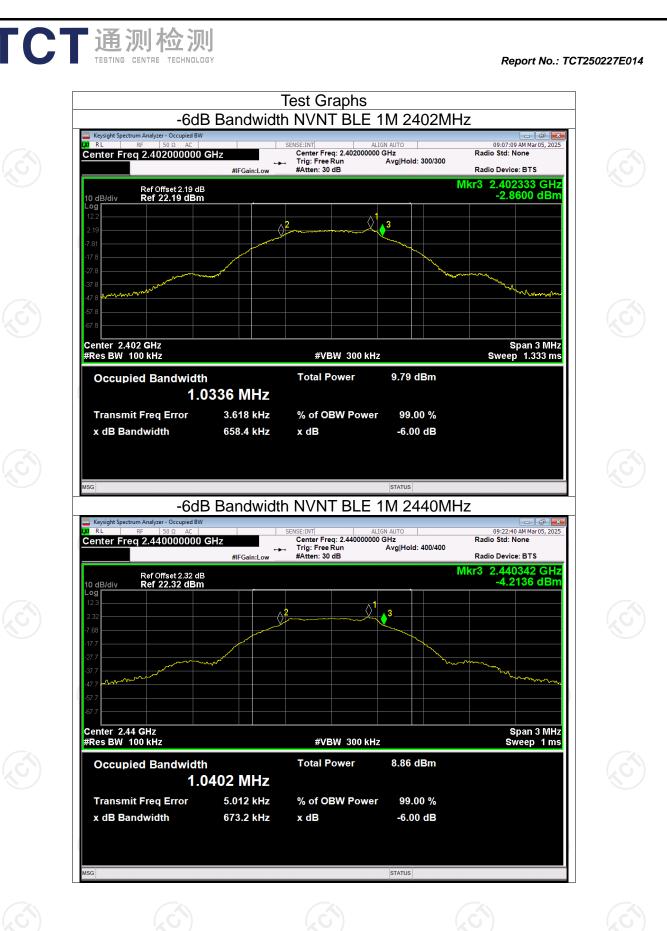
Keysight Spectrum Analyzer - Swept S

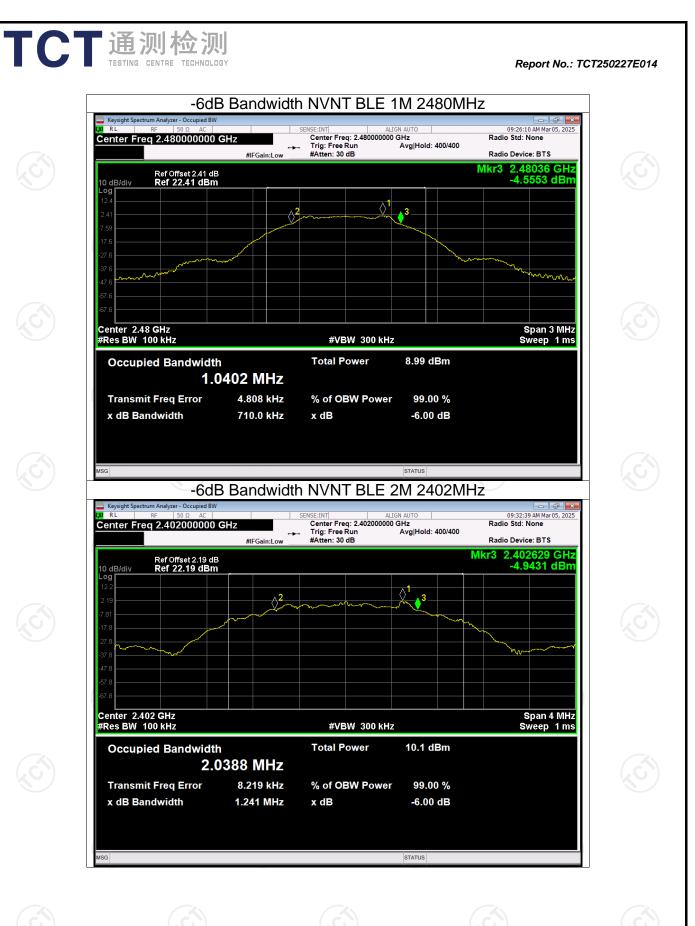
Page 36 of 57



-6dB Bandwidth								
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict			
NVNT	BLE 1M	2402	0.658	0.5	Pass			
NVNT	BLE 1M	2440	0.673	0.5	Pass			
NVNT	BLE 1M	2480	0.710	0.5	Pass			
NVNT	BLE 2M	2402	1.241	0.5	Pass			
NVNT	BLE 2M	2440	1.242	0.5	Pass			
NVNT 🐇	BLE 2M	2480	1.244	0.5	Pass			

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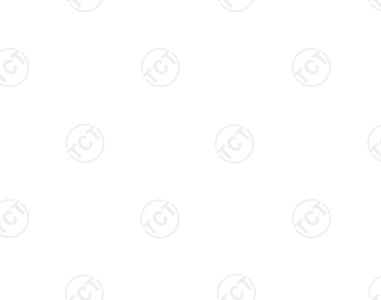


Page 39 of 57



Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict				
NVNT	BLE 1M	2402	-12.66	8	Pass				
NVNT	BLE 1M	2440	-13.61	8	Pass				
NVNT	BLE 1M	2480	-13.44	8	Pass				
NVNT	BLE 2M	2402	-16.23	8	Pass				
NVNT	BLE 2M	2440	-16.95	8	Pass				
NVNT	BLE 2M	2480	-16.76	8	Pass				

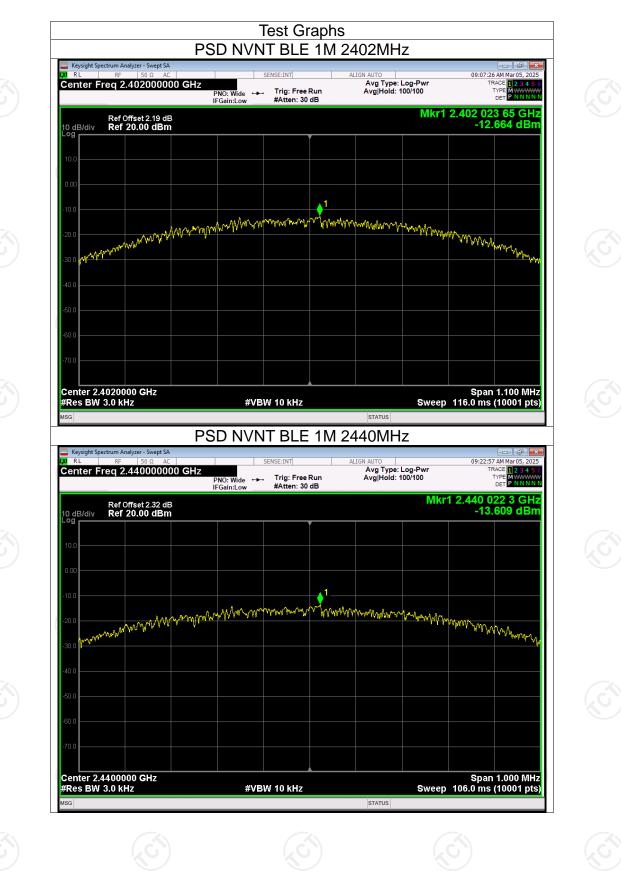
Maximum Power Spectral Density Level



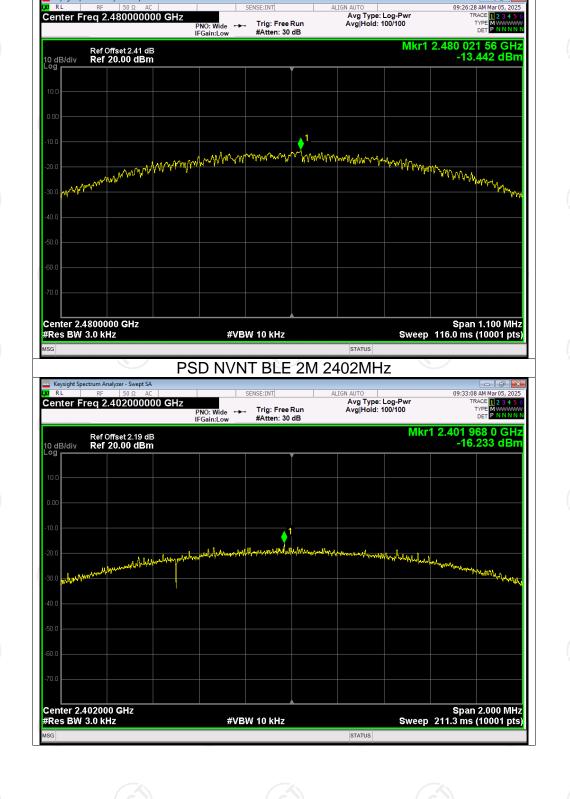
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Page 41 of 57

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Report No.: TCT250227E014



PSD NVNT BLE 1M 2480MHz

Report No.: TCT250227E014

Page 43 of 57

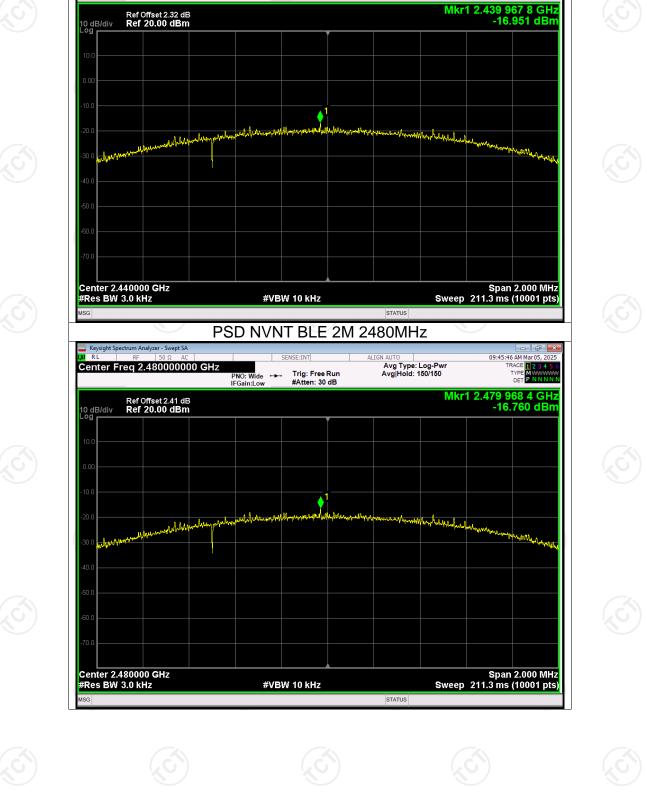


TCT通测检测 TESTING CENTRE TECHNOLOGY

🔤 Keysight Spe

Center Freg 2.480000000 GHz

a RL



PSD NVNT BLE 2M 2440MHz

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low **н**н

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

a RL

🔤 Keysight Spectrum Analyzer - Swept S

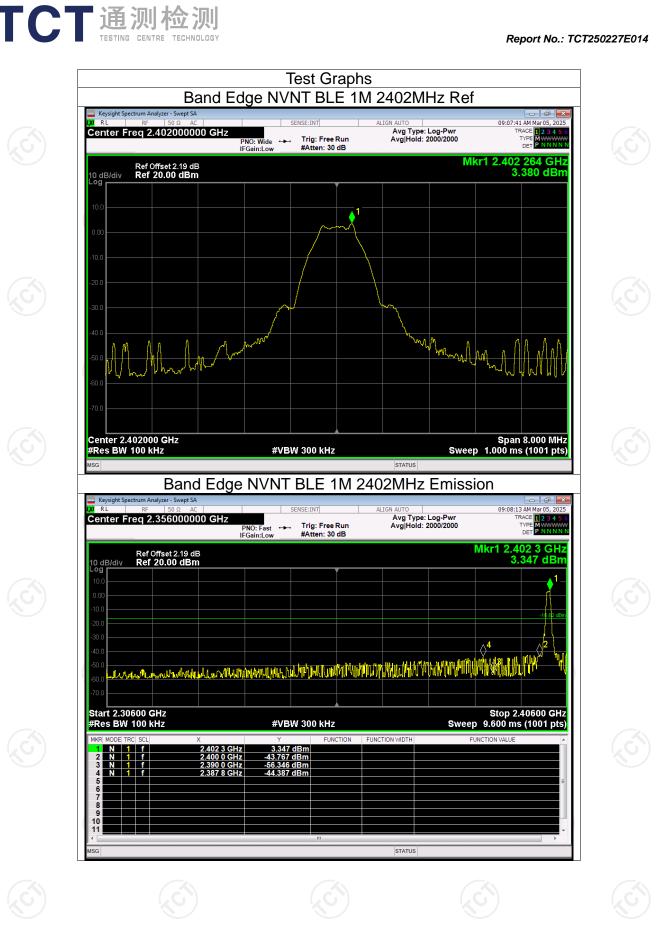
Center Freg 2.440000000 GHz

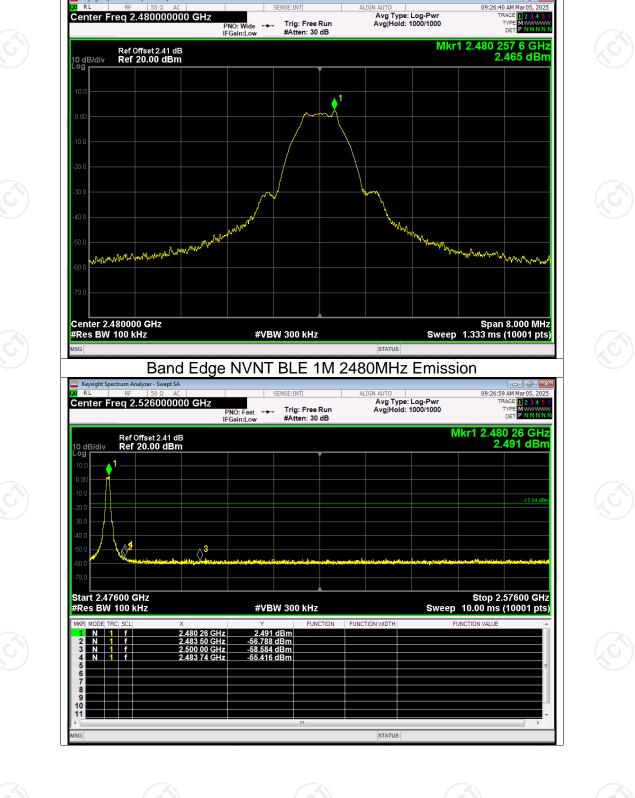
Report No.: TCT250227E014

Page 44 of 57

36:22 AM Mar 05, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

Condit NVN NVN	T BL	ode Fre E 1M E 1M	equency (M 2402 2480	Band Edg 1Hz) Ma	e x Value (dl -47.76 -57.88	Bc) Lin	nit (dBc) -20 -20	Verdic Pass Pass
NVN NVN NVN	T BL	E 2M E 2M E 2M	2480 2402 2480		-56.89 -56.62		-20 -20 -20	Pass Pass Pass





Band Edge NVNT BLE 1M 2480MHz Ref

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FCT通测检测 TESTING CENTRE TECHNOLOGY

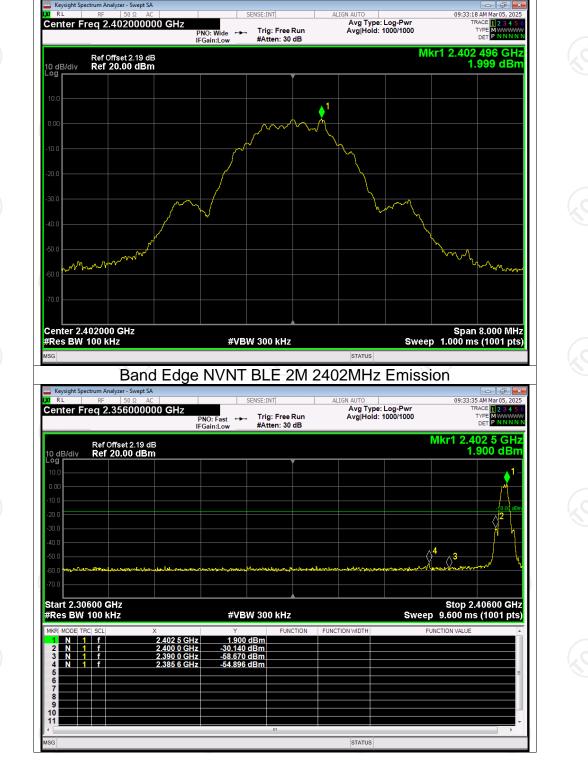
🔤 Keysight S

Center Freg 2.480000000 GHz

KI RL

Report No.: TCT250227E014

Page 47 of 57



Band Edge NVNT BLE 2M 2402MHz Ref

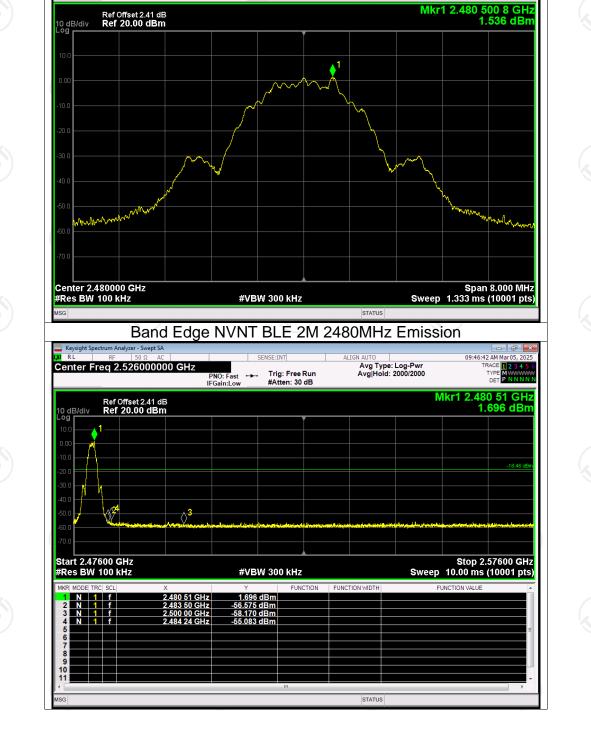
FCT通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT250227E014









Band Edge NVNT BLE 2M 2480MHz Ref

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low

нн

Avg Type: Log-Pwr Avg|Hold: 2000/2000

FCT通测检测 TESTING CENTRE TECHNOLOGY

🔤 Keysight S

Center Freg 2.480000000 GHz

KI RL

Report No.: TCT250227E014

09:46:09 AM Mar 05, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

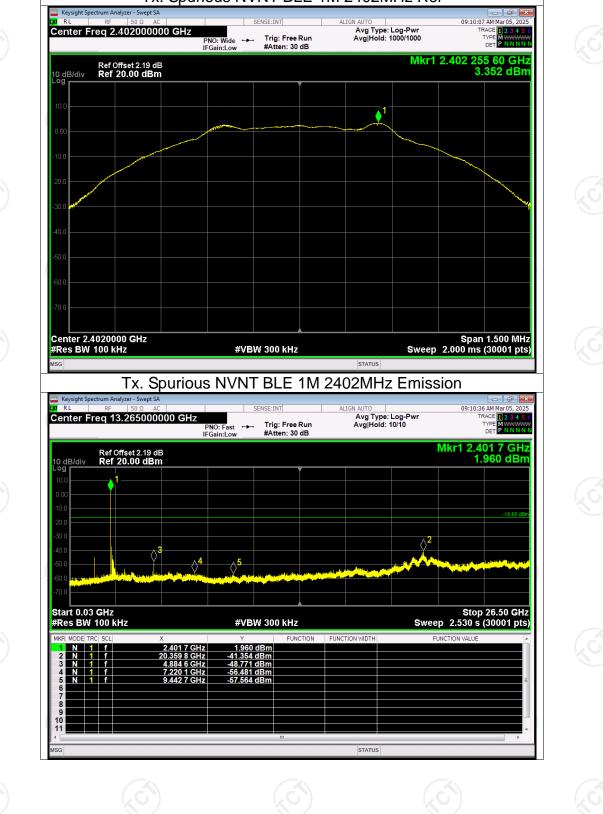
Page 49 of 57

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict			
NVNT	BLE 1M	2402	-44.70	-20	Pass			
NVNT	BLE 1M	2440	-44.66	-20	Pass			
NVNT	BLE 1M	2480	-44.94	-20	Pass			
NVNT	BLE 2M	2402	-44.68	-20	Pass			
NVNT	BLE 2M	2440	-44.02	-20	Pass			
NVNT	BLE 2M	2480	-44.13	-20	Pass			

Conducted RF Spurious Emission

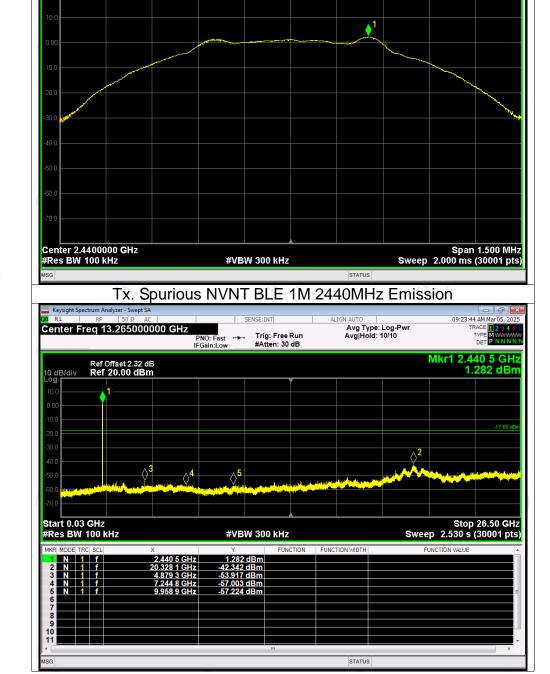


Hotlin	e: 400-6611-	140 Tel: 8	6-755-27673	3339 Fax:	<u>86-755-2767</u>	3332 http	Page :// www.tct-la	50 of 57



Test Graphs Tx. Spurious NVNT BLE 1M 2402MHz Ref





Tx. Spurious NVNT BLE 1M 2440MHz Ref

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low

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



🔤 Keysight Sp

10 dB/div Loa

Center Freg 2.440000000 GHz

Ref Offset 2.32 dB Ref 20.00 dBm

KI RL



09:23:15 AM Mar 05, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

Mkr1 2.440 252 00 GHz 2.320 dBm



Center 2.4800000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 2.000 ms (30001 pts) #VBW 300 kHz STATUS

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low

Tx. Spurious NVNT BLE 1M 2480MHz Emission

alyzer - Swept SA Keysight Spe U RL 09:29:00 AM Mar 05 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 1.009 dBm Ref Offset 2.41 dB Ref 20.00 dBm 10 dB/div Log **r** -17.54 d **⊘**² ¢ **⊘**⁴ **⊘**⁵ Start 0.03 GHz #Res BW 100 kHz Stop 26.50 GHz Sweep 2.530 s (30001 pts)

Report No.: TCT250227E014

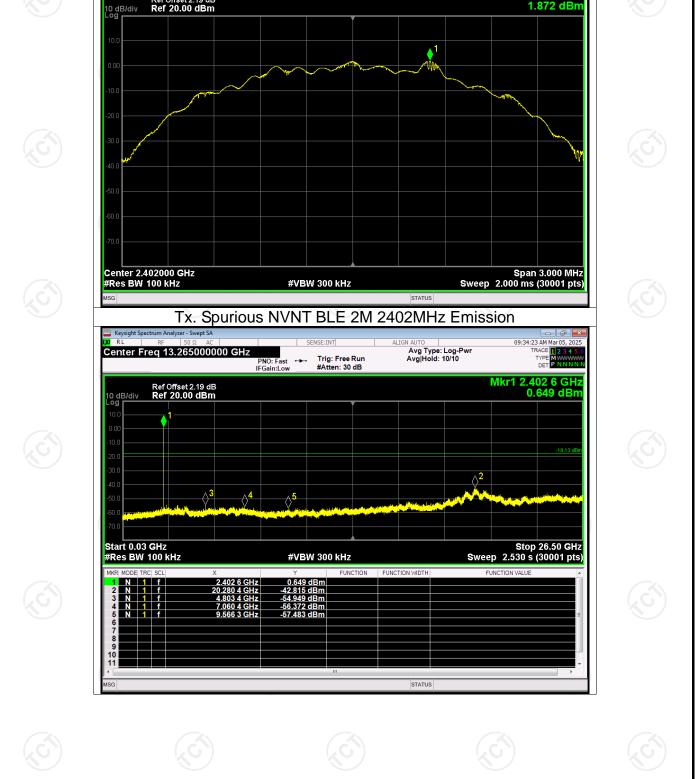
09:28:31 AM Mar 05, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N

Mkr1 2.480 249 65 GHz 2.463 dBm

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

V

Page 53 of 57



Tx. Spurious NVNT BLE 2M 2402MHz Ref

Trig: Free Run #Atten: 30 dB

PNO: Wide IFGain:Low

нн

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

🔤 Keysight S KI RL Center Freg 2.402000000 GHz

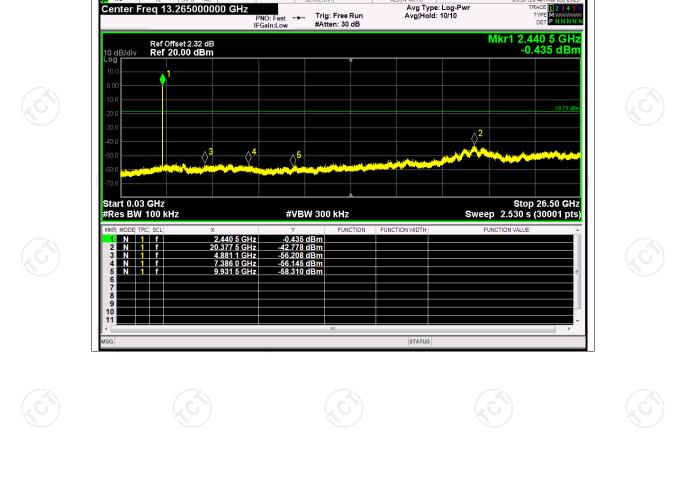
Ref Offset 2.19 dB Ref 20.00 dBm

Report No.: TCT250227E014

09:33:53 AM Mar 05, 2025 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N

Mkr1 2.402 500 4 GHz 1.872 dBm

Page 54 of 57



 N
 RL
 RF
 SQL AC
 SENSE:NT
 ALIGN UP: Log-PWr AvgType: L

Tx. Spurious NVNT BLE 2M 2440MHz Ref

🔤 Keysight S

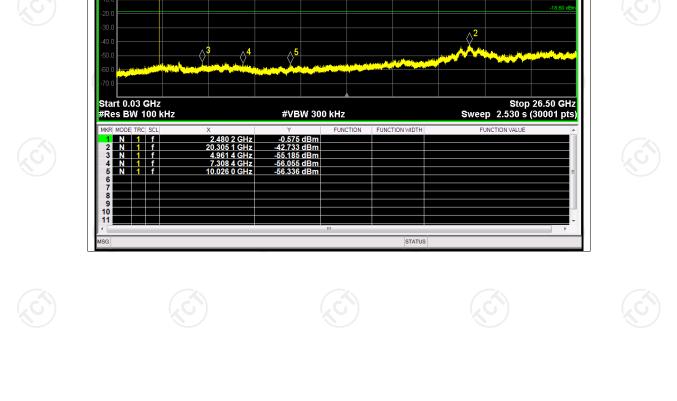
Keysight Spe

U RL

Tx. Spurious NVNT BLE 2M 2440MHz Emission

Report No.: TCT250227E014

09:37:10 AM Mar 05





Tx. Spurious NVNT BLE 2M 2480MHz Ref

🔤 Keysight S

Keysight Spe

10 dB/div Log **r**

Center Freg 13.265000000 GHz

Ref Offset 2.41 dB Ref 20.00 dBm

Tx. Spurious NVNT BLE 2M 2480MHz Emission

Trig: Free Run #Atten: 30 dB

PNO: Fast ↔→→ IFGain:Low Avg Type: Log-Pw Avg|Hold: 10/10

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Page 56 of 57

Report No.: TCT250227E014

09:47:31 AM Mar 05

TYPE

Mkr1 2.480 2 GHz -0.575 dBm

E 1 2 3 4 5 E M WWW T P N N N N

