	TECT DEDO	от		
	TEST REPO	RI		
FCC ID	2AOKUNOTE13	2AOKUNOTE13		
Test Report No:	TCT240318E066	(E)		
Date of issue:	Apr. 28, 2024			
Testing laboratory: :	SHENZHEN TONGCE TEST	ING LAB		
Testing location/ address:	2101 & 2201, Zhenchang Fac Subdistrict, Bao'an District, S People's Republic of China	· / •		
Applicant's name: :	SHENZHEN TUGAO INTELL	IGENT CO., LTD		
Address:	8th Floor, Bldg A, Jinggang S Bao'an District, Shenzhen, Cl		/ Park, Fuyong,	
Manufacturer's name :	SHENZHEN TUGAO INTELL	IGENT CO., LTD		
Address:	8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China			
Standard(s):	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013			
Product Name::	Smartphone			
Trade Mark:	HOTWAV			
Model/Type reference :	Note 13, Note, Note 11, Note 11 Pro, Note 15, Note 15 Pro, Note 16, Note 16 Pro, Note 17, Note 17 Pro, Note 18, Note 18 Pro, Note 19, Note 19 Pro, Note 20, Note 20 Pro, Note 21, Note 21 Pro			
Rating(s):	Refer to EUT description of p	age 3		
Date of receipt of test item	Mar. 18, 2024			
Date (s) of performance of test:	Mar. 18, 2024 ~ Apr. 28, 2024			
Tested by (+signature) :	Aaron MO	Aaron 160	CETR	
Check by (+signature) :	Beryl ZHAO	Bayl the P		
Approved by (+signature):	Tomsin	Jomsie	BY	

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1. General Product Information

1.1. EUT description

Product Name:	Smartphone
Model/Type reference:	Note 13
Sample Number:	TCT240318E060-0101
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Modulation Technology:	802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n: Orthogonal Frequency Division Multiplexing(OFDM)
Data speed:	802.11b: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps 802.11n: Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	-2.31dBi
Rating(s):	Adapter Information: Model: HJ-0502000W2-US Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2.0A, 10.0W Rechargeable Li-ion Battery DC 3.87V

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	Note 13	\boxtimes	
Other models	Note, Note 11, Note 11 Pro, Note 15, Note 15 Pro, Note 16, Note 16 Pro, Note 17, Note 17 Pro, Note 18, Note 18 Pro, Note 19, Note 19 Pro, Note 20, Note 20 Pro, Note 21, Note 21 Pro		
Note: Note 13 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 Note 13 can represent the remaining models.			

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1.3. Operation Frequency

For 802.11b/g/n (HT20)

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
/	1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
X	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz		

For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		- (
<u>(</u> G`)	(5)5	2432MHz	8	2447MHz	G`)	(2
3	2422MHz	6	2437MHz	9	2452MHz		(

Note:

In section 15.31(*m*), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz



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 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:	22.5 °C	23.7 °C
Humidity:	41 % RH	54 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar

Test Mode:

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

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

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it
was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps













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	Madal No	Seriel No.		Trada Nama
Equipment	Model No.	Serial No.	FCC ID	Trade Name
$\langle \mathcal{C} \rangle$			/	

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-1
 - SHENZHEN TONGCE TESTING LAB
 - CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry 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 WIFI antenna is Internal antenna which permanently attached, and the best case gain of the antenna is 2.12dBi.





5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	6
Test Method:	ANSI C63.10:2013		
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto
	Frequency range	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	
Test Setup: Test Mode:	40cm E.U.T AC powe Test table/Insulation plane Remarkc E.U.T. Equipment Under Test LISN: Line Impedence Stabilization No Test table height=0.8m Charging + Transmittin	EMI Receiver	- AC power
Test Procedure:	 The E.U.T is connelline impedance staprovides 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 C63.10:2013 conducted interface 	bilization network 50uH coupling im nt. ces are also conne ISN that provides with 50ohm term diagram of the line are checkence. In order to fir e positions of equ s must be chang	(L.I.S.N.). This pedance for the ected to the mair a 50ohm/50uh nination. (Please test setup and d for maximum nd the maximum ipment and all o ed according to

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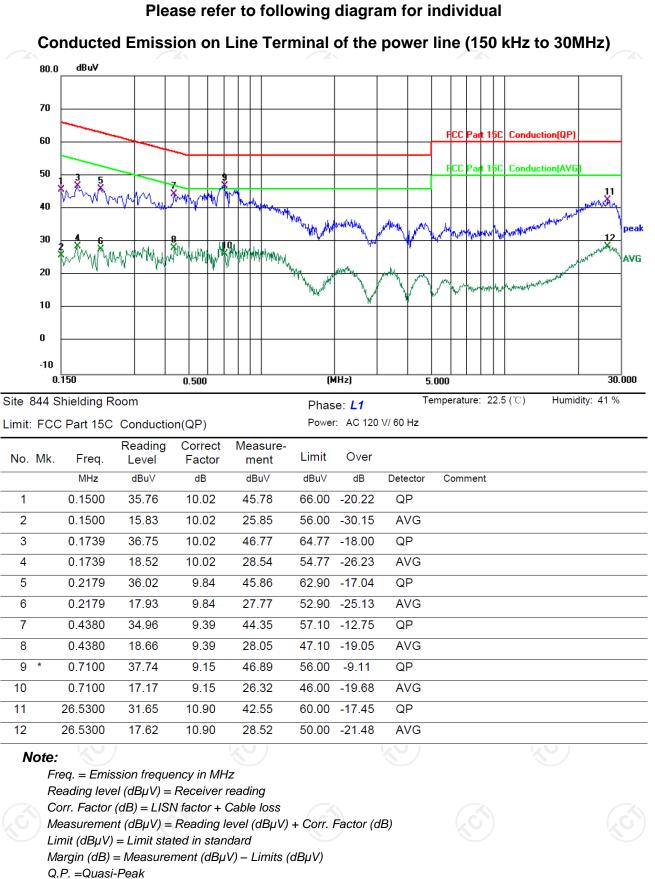
5.2.2. Test Instruments

Cond	ucted Emission	Shielding R	oom Test Site (8	43)
Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI3	100898	Jun. 29, 2024
Line Impedance Stabilisation Newtork(LISN)	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025
Line-5	ТСТ	CE-05	/	Jul. 03, 2024
EMI Test Software	Shurple Technology	EZ-EMC	1	1 6



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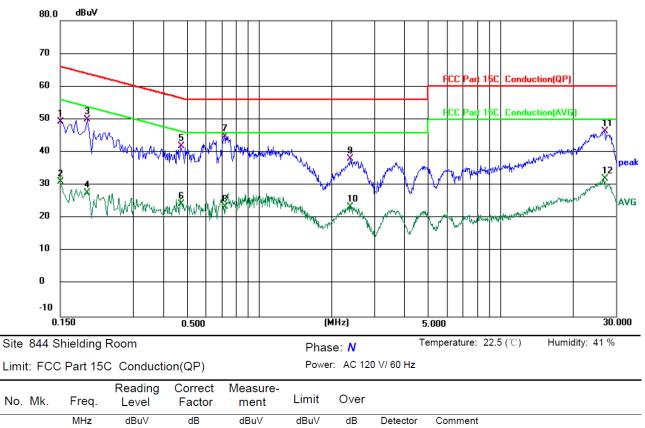
5.2.3. Test data



AVG =average

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





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

	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
-			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
	1		0.1500	39.33	10.00	49.33	66.00	-16.67	QP	
	2		0.1500	21.05	10.00	31.05	56.00	-24.95	AVG	
-	3		0.1940	39.94	10.01	49.95	63.86	-13.91	QP	
	4		0.1940	17.65	10.01	27.66	53.86	-26.20	AVG	
	5		0.4739	32.58	9.34	41.92	56.45	-14.53	QP	
	6		0.4739	15.05	9.34	24.39	46.45	-22.06	AVG	
	7	*	0.7179	35.63	9.11	44.74	56.00	-11.26	QP	
	8		0.7179	14.29	9.11	23.40	46.00	-22.60	AVG	
	9		2.3940	28.04	10.04	38.08	56.00	-17.92	QP	
-	10		2.3940	13.42	10.04	23.46	46.00	-22.54	AVG	
	11		26.9619	35.57	10.87	46.44	60.00	-13.56	QP	
1	12		26.9619	21.17	10.87	32.04	50.00	-17.96	AVG	

Note:

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

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5.3. Maximum Conducted (Average) 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:	Transmitting mode with modulation
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report.
Test Result:	PASS
$(\chi \dot{\mathcal{O}})$	

5.3.2. Test Instruments

	R	F Test Room	I	
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB		



5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15	5.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02	2
Limit:	>500kHz	
Test Setup:		
	Spectrum Analyzer	EUT
Test Mode:	Transmitting mode with m	nodulation
Test Procedure:	EUT transmit continue 2. Make the measuremen resolution bandwidth Video bandwidth (VBV an accurate measuren be greater than 500 k	nt with the spectrum analyzer's (RBW) = 100 kHz. Set the W) = 300 kHz. In order to mak ment. The 6dB bandwidth mus
Test Result:	PASS	

5.4.2. Test Instruments

	R	F Test Room	1	
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
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	C
Limit:	The peak power spectral density shall not be great than 8dBm in any 3kHz band at any time intervation continuous transmission.	
Test Setup:		, c
	Spectrum Analyzer EUT	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	 The RF output of EUT was connected to the spect analyzer by RF cable and attenuator. The path low 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 resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the sto at least 1.5 times the OBW. Detector = RMS, Sweep time = auto couple. Employ trace averaging (RMS) mode over a mining of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 	ss er's pan
Test Result:	PASS	

5.5.2. Test Instruments

	R	F Test Room	ı	
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 28, 2024
Combiner Box	Ascentest	AT890-RFB		

5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz
Test Procedure:	 bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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5.6.2. Test Instruments

		R	F Test Room	1				
E	quipment	Manufacturer	Model	Serial	Number	Calibration	ו Due	
- 7	trum Analyzer	Agilent	N9020A	MY49	9100619	Jun. 28, 2024		
Со	mbiner Box	Ascentest	AT890-RFB	<u></u>	/	1		
	S	Ś	1	$\langle \mathcal{O} \rangle$		Ś		
						Dara	18 of 8	
	e: 400-6611-140	Tel: 86-755-2767	2220 Fam. 0 0	-755-276	70000 64	t <u>p://www.tct-la</u>		

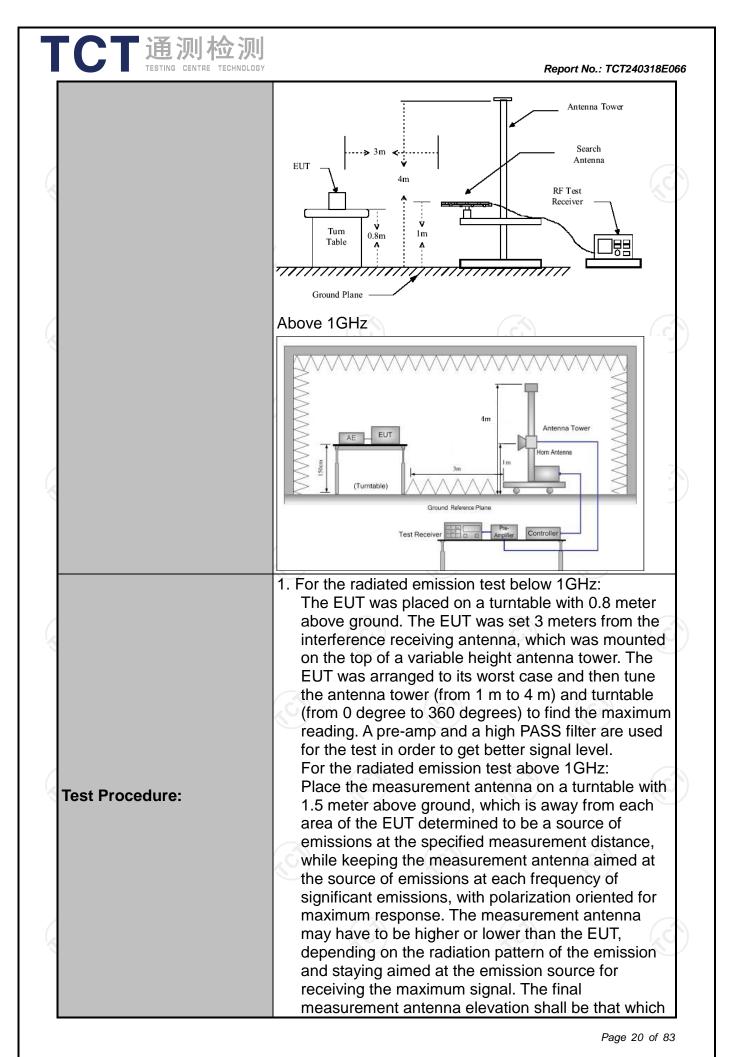


5.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification

Test Requirement:	FCC Part15	C Section	15.209	\mathbf{G}			
Test Method:	ANSI C63.10	0:2013					
Frequency Range:	9 kHz to 25 (GHz	~/~				
Measurement Distance:	3 m	(<u>6</u>)				
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Transmitting	mode wit	h modulat	ion	(
	Frequency	Frequency Detector RBW		VBW	Remark		
	9kHz- 150kHz	Quasi-peal	< 200Hz	1kHz	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peal		30kHz	Quasi-peak Value		
	30MHz-1GHz	Quasi-peal	120KHz	300KHz	Quasi-peak Value		
		Peak	1MHz	3MHz	Peak Value		
	Above 1GHz	Peak	1MHz	10Hz	Average Value		
		Tean					
	Frequen	ісу	Field Stre (microvolts	•	Measurement Distance (meters)		
	0.009-0.4	190	2400/F(I		300		
	0.490-1.7		2400/F(1 24000/F(300		
	1.705-3		30	1112)	30		
	30-88		100		3		
_imit:	88-216	1	150		3		
	216-96	200		3			
	Above 9		500		3		
		A l	/		(
	Frequency		d Strength	Measure Distan			
		(micro	ovolts/meter)	(mete	ers)		
	Above 1GHz		500	3			
	Above TGH2	<u> </u>	5000	3			
	For radiated	emission	s below 30)MHz			
	Di	stance = 3m			Computer		
	L		_				
	Í	16		Pre -/	Amplifier		
			ΖЕг				
Test setup:	EUT						
		□ Turn table	1m				
	0.8m						
					teceiver		
		Ground	I Plane				
	30MHz to 10	GH7					

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	 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: Span shall wide enough to fully capture the emission being measured; 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. VBW \geq 1/T, 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 results:	PASS



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5.7.2. Test Instruments

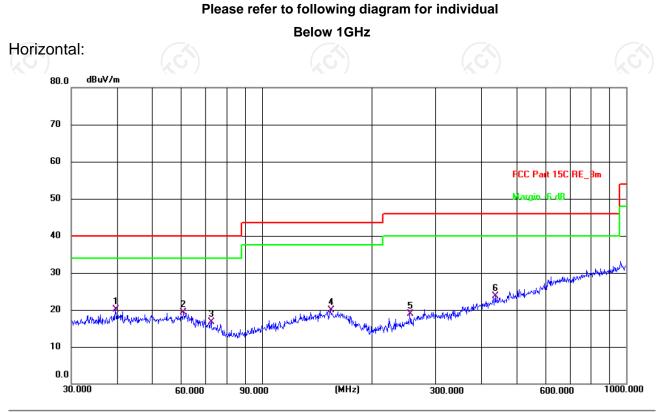
	Radiated En	nission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESIB7	100197	Jun. 29, 2024
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 29, 2024
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025
Pre-amplifier	HP	8447D	2727A05017	Jun. 27, 2024
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jul. 02, 2024
Broadband Antenna	Schwarzbeck	VULB9163	340	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jul. 01, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025
Antenna Mast	Keleto	RE-AM	/	/
Coaxial cable	SKET	RC-18G-N-M	1	Jan. 31, 2025
Coaxial cable	SKET	RC_40G-K-M	/	Jan. 31, 2025
EMI Test Software	Shurple Technology	EZ-EMC		1



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



5.7.3. Test Data



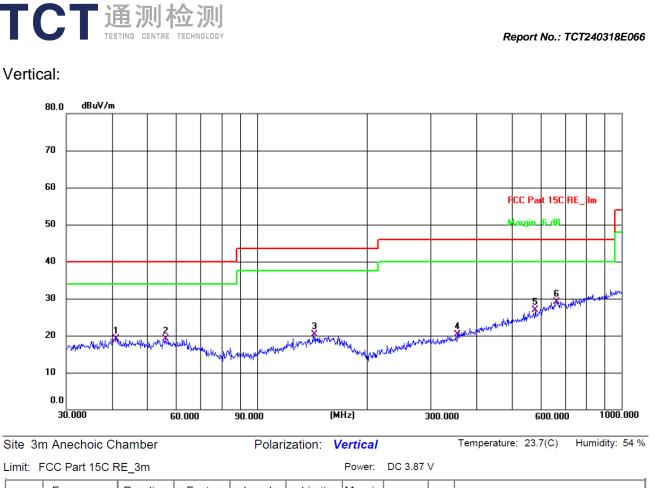
 Site 3m Anechoic Chamber
 Polarization:
 Horizontal
 Temperature:
 23.7(C)
 Humidity:
 54 %

 Limit:
 ECC Part 15C RE 3m
 Power:
 DC.3.87 V

-	.imit: F	-CC Part 15C F	K⊑_3m				Power:	DC 3.87	V	
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
ſ	1 *	39.5757	6.08	14.07	20.15	40.00	-19.85	QP	Р	
ſ	2	60.9174	5.93	13.33	19.26	40.00	-20.74	QP	Ρ	
	3	72.5915	4.96	11.75	16.71	40.00	-23.29	QP	Р	
ſ	4	154.2786	4.72	15.17	19.89	43.50	-23.61	QP	Р	
	5	254.7282	5.73	13.08	18.81	46.00	-27.19	QP	Ρ	
	6	437.1200	5.69	17.96	23.65	46.00	-22.35	QP	Ρ	

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	40.9880	5.06	14.12	19.18	40.00	-20.82	QP	Ρ	
2	56.1974	5.49	13.60	19.09	40.00	-20.91	QP	Ρ	
3	143.3260	5.99	14.34	20.33	43.50	-23.17	QP	Ρ	
4	355.4272	4.68	15.54	20.22	46.00	-25.78	QP	Ρ	
5	580.7024	5.89	20.98	26.87	46.00	-19.13	QP	Ρ	
6 *	663.4728	6.03	22.99	29.02	46.00	-16.98	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 all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (Middle channel and 802.11b) was submitted only.

3. Freq. = Emission frequency in MHz

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

Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

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

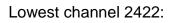
 $Margin (dB) = Measurement (dB\mu V/m) - Limits (dB\mu V/m)$

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

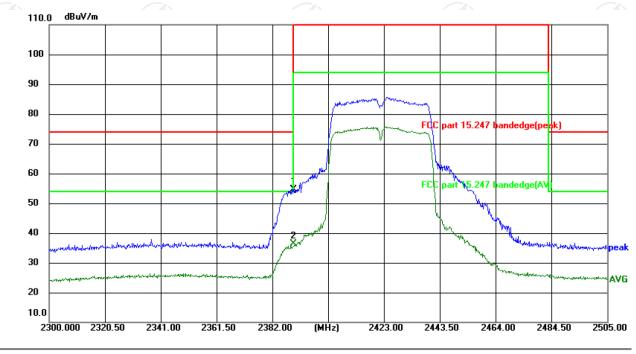
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Test Result of Radiated Spurious at Band edges



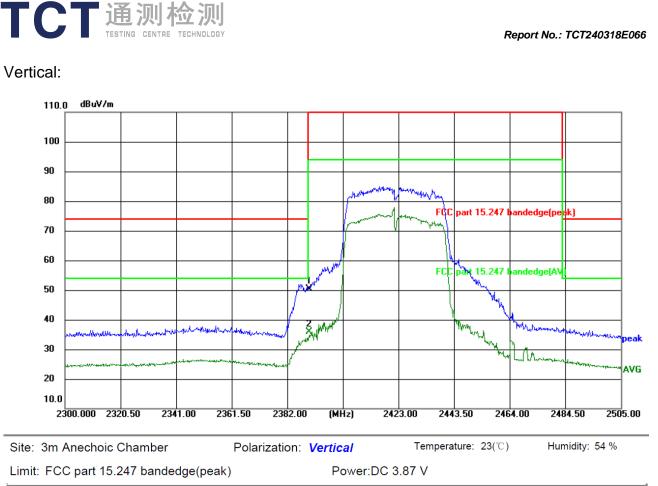
Horizontal:



Site: 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 23(°C) Humidity: 54 %

Limit:	FCC part 15.	247 bande	edge(peak)	P	ower:D	C 3.87 V	'	
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2390.000	70.40	-15.86	54.54	74.00	-19.46	peak	Ρ	
2 *	2390.000	52.25	-15.86	36.39	54.00	-17.61	AVG	Ρ	
						1			

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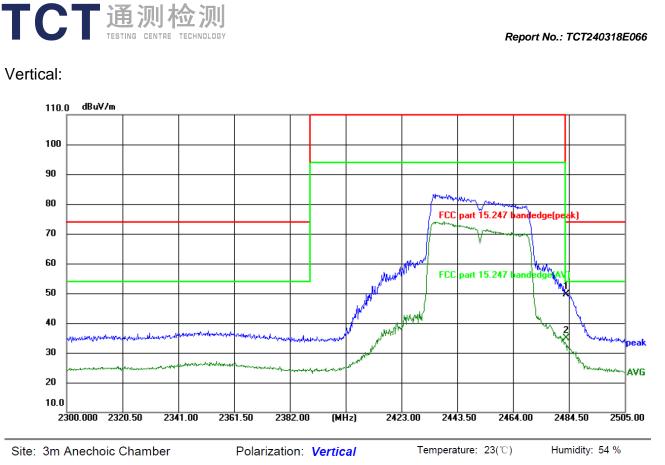


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2390.000	66.13	-15.86	50.27	74.00	-23.73	peak	Ρ	
2 *	2390.000	51.74	-15.86	35.88	54.00	-18.12	AVG	Ρ	

Note: Measurements were conducted in all two channels (high, low) and all modulation (802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11n(HT40) was submitted only.

 Image: Solution of the second seco

T(CT i		金 测						F	Report No.:	TCT240318E	E066
Highe Horizo	st channel ontal:	2452:										
	110.0 dBuV/m	1		1		1			1		1	1
	100											
:	90 00							former	and the second	miner		-
1	во							m	my m			-
;	70							FLL	part 15.247	bandedge(pe	akj	-
I	60					. M	uddelle Winghand			<u> </u>		-
,	50					And I	WWW	FUU	part 15.247	handedge(AY	Market .	
	40				and the most of the					סייי 	han with the	-
:	30		dianan beri alterayatekingkan	n fallen filler och som som som som	- And much	/// 					"Monore to	peak
:	20	4 ¹ 11 ¹¹ 1212 1111	gaanse of the second and the second									AVG
	10.0 2300.000 232	20.50 234	1.00 23	61.50 23	82.00 (M	Hz)	2423.00	244	I3.50 24	64.00 244	34.50 250	5.00
	Bm Anechoic FCC part 15.2	247 bande)		ower:D0	Te C 3.87 V		ature: 23(℃) Hur	nidity: 54 %	
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)		Limit (dBuV/m)		Detector		Remark	(
1	2483.500 2483.500	74.38 62.33	-15.87 -15.87	58.51 46.46	74.00 54.00	-15.49 -7.54	peak AVG	P P				_
				1	6)					(.	3



Limit: FCC part 15.247 bandedge(peak)

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector	P/F	Remark
1	2483.500	65.40	-15.87	49.53	74.00	-24.47	peak	Ρ	
2 *	2483.500	50.82	-15.87	34.95	54.00	-19.05	AVG	Ρ	

Power:DC 3.87 V

Note:

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode 802.11n(HT40) was submitted only.

			M	odulation T	ype: 802.11	lb			
			L	ow channe	I: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	45.21		0.75	45.96		74	54	-8.04
7236	Н	34.33		9.87	44.20		74	54	-9.80
	Н								
4824	V	44.64		0.75	45.39		74	54	-8.61
7236	V	34.85	(2G	9.87	44.72	G`}	74	54	-9.28
	V				~				

Above 1GHz

	Middle channel: 2437 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4874	Н	45.15		0.97	46.12		74	54	-7.88				
7311	Н	34.39		9.83	44.22		74	54	-9.78				
	H				(
			KO.)	X								
4874	V	44.12		0.97	45.09	·	74	54	-8.91				
7311	V	34.29		9.83	44.12		74	54	-9.88				
	V												
(c)				((

			H	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H	45.78		1.18	46.96		74	54	-7.04
7386	E.	34.19		10.07	44.26		74	54	-9.74
	Н								
4924	V	45.37		1.18	46.55		74	54	-7.45
7386	V	35.84		10.07	45.91		74	54	-8.09
	V			0	ノ				

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. The highest test frequency is 25GHz.

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.

FCT通测检测 TESTING CENTRE TECHNOLOGY

TC	TEST	刻检					Repo	ort No.: TCT24	40318E066
			Μ	odulation T	ype: 802.1	1g			
			L	ow channe	l: 2412 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	45.02		0.75	45.77		74	54	-8.23
7236	Н	35.14		9.87	45.01		74	54	-8.99
	Н			(J				
4824	V	46.39		0.75	47.14		74	54	-6.86
7236	V	35.24		9.87	45.11		74	54	-8.89
	V		1 20)	(G`)		(<u>,</u> G)	

			Mi	ddle chann	el: 2437 MI	Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	45.94		0.97	46.91		74	54	-7.09
7311	Н	36.75		9.83	46.58		74	54	-7.42
	Н								
				2	(
4874	V	45.81		0.97	46.78	0)	74	54	-7.22
7311	V	35.77		9.83	45.60		74	54	-8.40
	V								

(\mathbf{G})		() F	ligh channe	el: 2462 MH	Z	(\mathbf{G})		
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H_	45.36		1.18	46.54		74	54	-7.46
7386	H	35.97		10.07	46.04	<u> </u>	74	54	-7.96
	Н			/	×	<u> </u>			
4924	V	46.01		1.18	47.19		74	54	-6.81
7386	V	36.21		10.07	46.28		74	54	-7.72
	V	Ú ,		(20	5)		<u> </u>		
Matai			7						

Note:

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

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

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

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.

TC		的加检					Repo	ort No.: TCT24	40318E066
			Modu	lation Type	: 802.11n (l	HT20)			
			L	ow channe	l: 2412 MH	z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4824	Н	46.54		0.75	47.29		74	54	-6.71
7236	Н	35.96		9.87	45.83		74	54	-8.17
· · · · · ·	Н			()	· · · ·				
4824	V	46.75		0.75	47.50		74	54	-6.50
7236	V	36.32	6	9.87	46.19		74	54	-7.81
	V)	(<u> </u>			

			Mi	ddle chann	el: 2437 Mł	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	45.02		0.97	45.99		74	54	-8.01
7311	Н	35.34		9.83	45.17		74	54	-8.83
	Н								
				2	(
4874	V	45.76		0.97	46.73	<u> </u>	74	54	-7.27
7311	V	36.81		9.83	46.64		74	54	-7.36
	V								

(c)		()	F	ligh channe	el: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	H_	45.03		1.18	46.21		74	54	-7.79
7386	H	36.84		10.07	46.91	<u> </u>	74	54	-7.09
	Н			/	(<u> </u>			
4924	V	44.10		1.18	45.28		74	54	-8.72
7386	V	35.69		10.07	45.76		74	54	-8.24
(.)	V	(J . t		(, (5)		\mathcal{S}^{2}		(
Mater			7						

Note:

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

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

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

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.

TC		MG CENTRE TEC					Repo	ort No.: TCT24	40318E066
			Modu	lation Type	: 802.11n (ł	HT40)			
			L	ow channe	I: 2422 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4844	Н	45.11		0.75	45.86		74	54	-8.14
7266	Н	35.36		9.87	45.23		74	54	-8.77
·/	Н			0	· · · ·				
4824	V	45.91		0.75	46.66		74	54	-7.34
7236	V	35.84	6	9.87	45.71	×	74	54	-8.29
	V					G '}		(<u>,</u> G)	

			Mi	ddle chann	el: 2437 Mł	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	45.12		0.97	46.09		74	54	-7.91
7311	Н	34.40		9.83	44.23		74	54	-9.77
	Н								
				6	(
4874	V	45.79		0.97	46.76		74	54	-7.24
7311	V	35.42	()	9.83	45.25		74	54	-8.75
	V								

					- A .				
			F	ligh channe	el: 2452 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	H.	45.09		1.18	46.27		74	54	-7.73
7356	H	34.34		10.07	44.41	<u> </u>	74	54	-9.59
	H			/	X	<u> </u>			
4904	V	45.01		1.18	46.19		74	54	-7.81
7356	V	34.38		10.07	44.45		74	54	-9.55
	V	U t		(, (<u> </u>		
Mada									

Note:

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

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

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

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.

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.

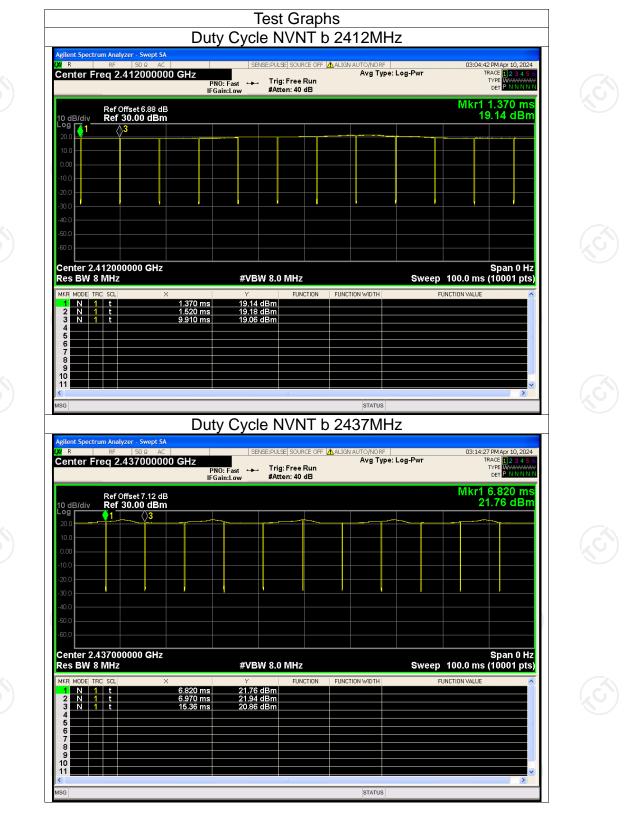
6. All the restriction bands are compliance with the limit of 15.209.



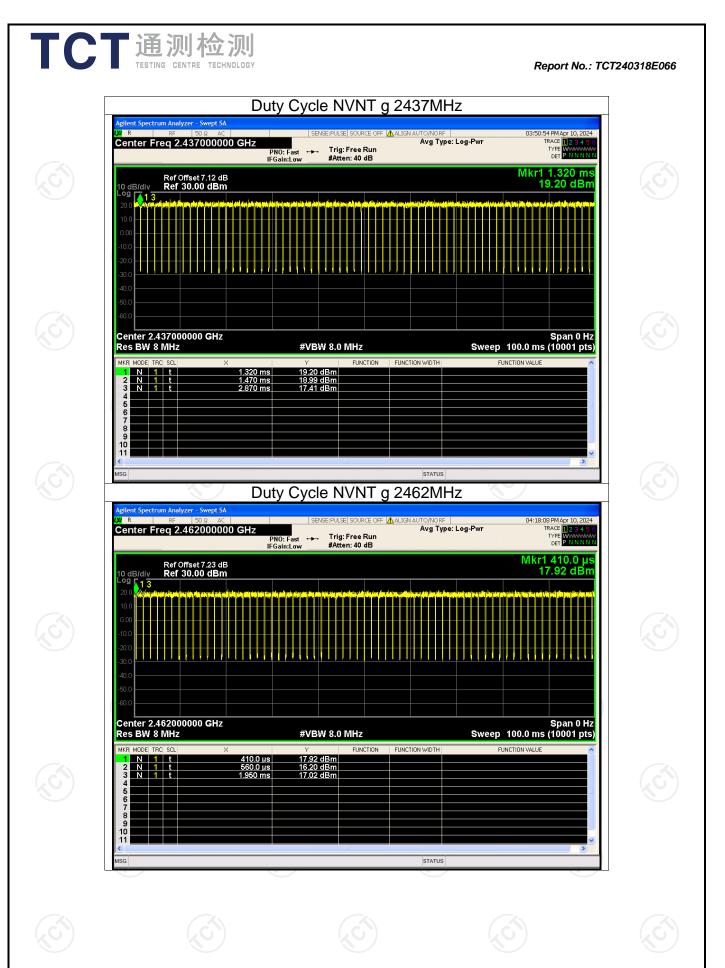
Appendix A: Test Result of Conducted Test

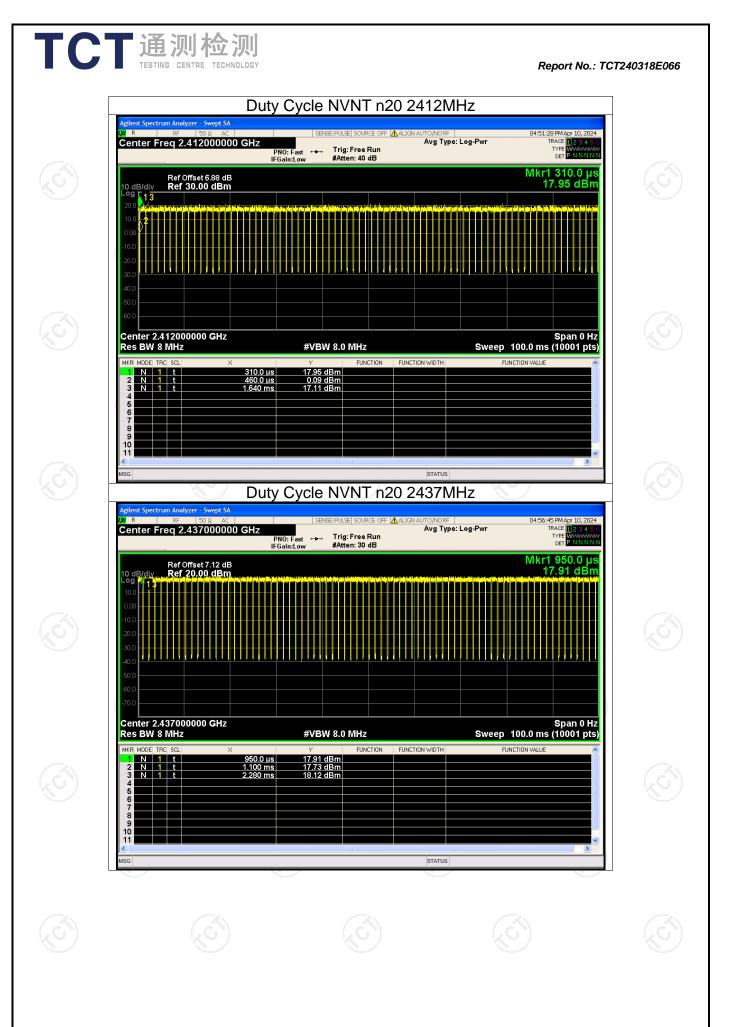
		ſ	Duty Cycle		
Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	98.25	0	0.12
NVNT	b	2437	98.36	0	0.12
NVNT	q	2462	98.38	0	0.12
NVNT	g	2412	90.70	0.42	0.72
NVNT	g	2437	90.81	0.42	0.71
NVNT	g	2462	90.69	0.42	0.72
NVNT	n20	2412	89.21	0.5	0.85
NVNT	n20	2437	89.23	0.49	0.85
NVNT	n20	2462	88.39	0.54	0.85
NVNT	n40	2422	83.41	0.79	0.88
NVNT	n40	2437	83.28	0.79	0.88
NVNT	n40	2452	83.50	0.78	0.88



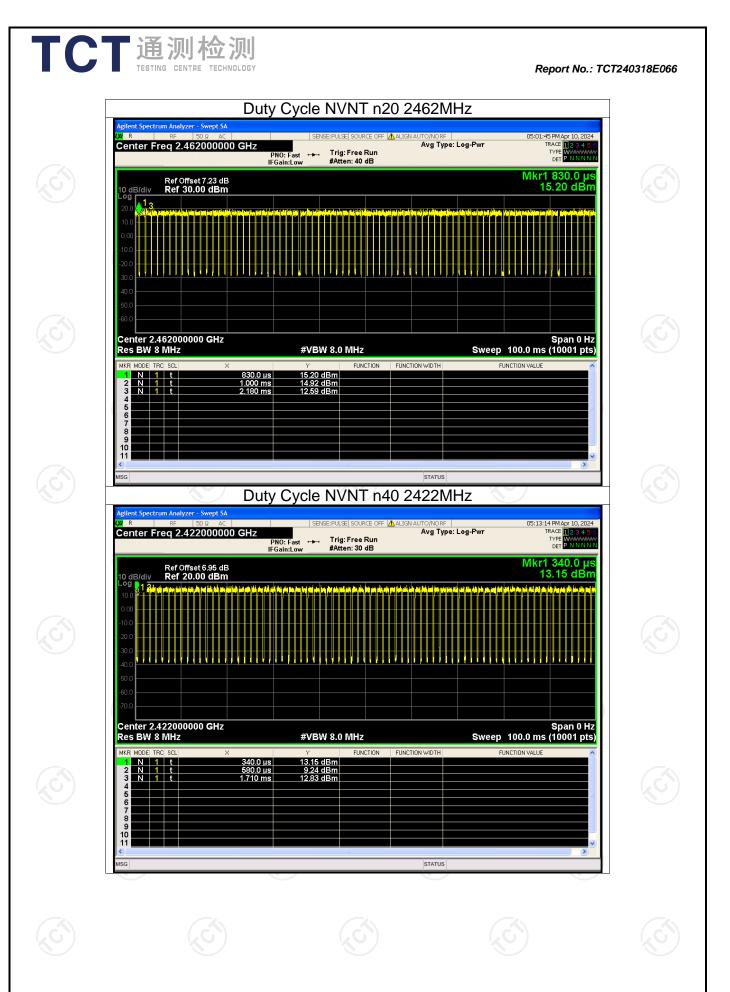


	nt Spectrum Analyzer - Swept SA RF 50 Ω AC	Ity Cycle NVNT b 2462	NORF 03:17:11 PM Apr 10, 2024	
Ce	nter Freq 2.462000000 GHz	Av PNO: Fast +++ Trig: Free Run FGain:Low #Atten: 40 dB	g Type: Log-Pwr TRACE 12 3 4 5 6 TYPE WANNAW DET P N N N N	
10	Ref Offset 7.23 dB B/div Ref 30.00 dBm		Mkr1 7.890 ms 18.21 dBm	,
20 10				
0.0 -10				
-20.				
-40.				
	nter 2.462000000 GHz		Span 0 Hz	G
MKE	BW 8 MHz	#VBW 8.0 MHz	Sweep 100.0 ms (10001 pts)	
3	N 1 t 7.890 ms N 1 t 8.050 ms N 1 t 16.44 ms	18.21 dBm 18.32 dBm 17.65 dBm		
5 6 7 8				
9 10 11				
MSG		12.5.4.1	TATUS	6
	nt Spectrum Analyzer - Swept SA	ity Cycle NVNT g 2412		
Ce	nter Freq 2.412000000 GHz	SENSE:PULSE SOURCE OFF ▲ ALIGN AUTO; Av PNO: Fast ↔ Trig: Free Run FGain:Low #Atten: 40 dB	NORF 03:21:50 PM Apr 10, 2024 g Type: Log-Pwr TRACE 12:3 4 5 6 TYPE WWWWW DET P NNNNN	
10	Ref Offset 6.88 dB IB/div Ref 30.00 dBm		Mkr1 100.0 μs 18.41 dBm	
20 10	1 3			
-10				6
-20.				
-40.				
-60.	nter 2.412000000 GHz			
Re	BW 8 MHz	#VBW 8.0 MHz	Span 0 Hz Sweep 100.0 ms (10001 pts)	
1	N 1 t 100.0 μs N 1 t 260.0 μs N 1 t 1.650 ms	18.41 dBm 16.49 dBm		(
3				X

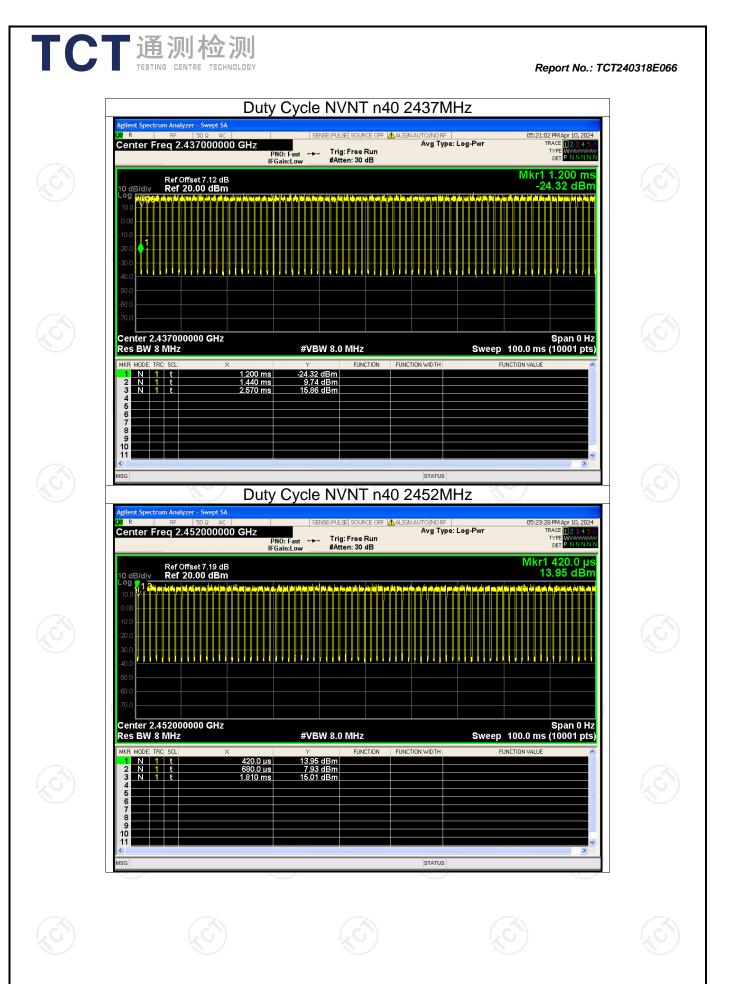




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Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	15.97	0	15.97	30	Pass
NVNT	b	2437	17.62	0	17.62	30	Pass
NVNT	b	2462	15.04	0	15.04	30	Pass
NVNT	g	2412	14.40	0.42	14.82	30	Pass
NVNT	g	2437	16.44	0.42	16.86	30	Pass
NVNT	g	2462	14.23	0.42	14.65	30	Pass
NVNT	n20	2412	13.18	0.50	13.68	30	Pass
NVNT	n20	2437	15.48	0.49	15.97	30	Pass
NVNT	n20	2462	12.73	0.54	13.27	30	Pass
NVNT	n40	2422	13.01	0.79	13.80	30	Pass
NVNT	n40	2437	14.56	0.79	15.35	30	Pass
NVNT	n40	2452	12.17	0.78	12.95	30	Pass
()	(\mathbf{O})			(.G)		(\mathcal{G})	

Maximum Conducted Output Power



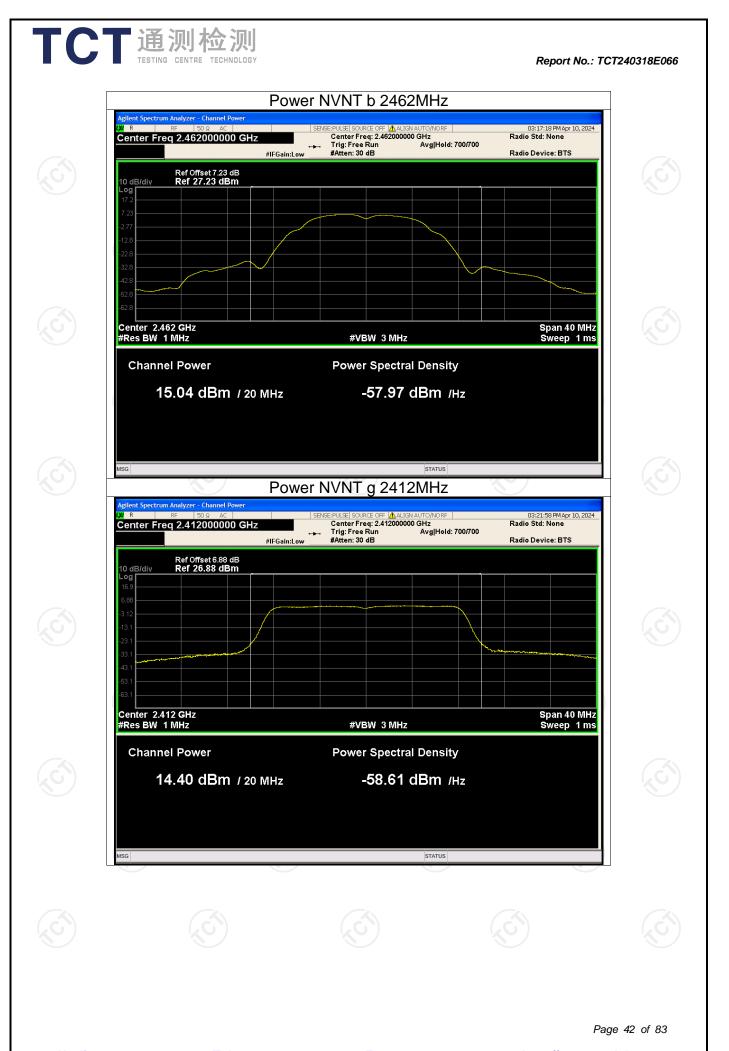
03:04:49 PM Apr 10, 2024 Radio Std: None

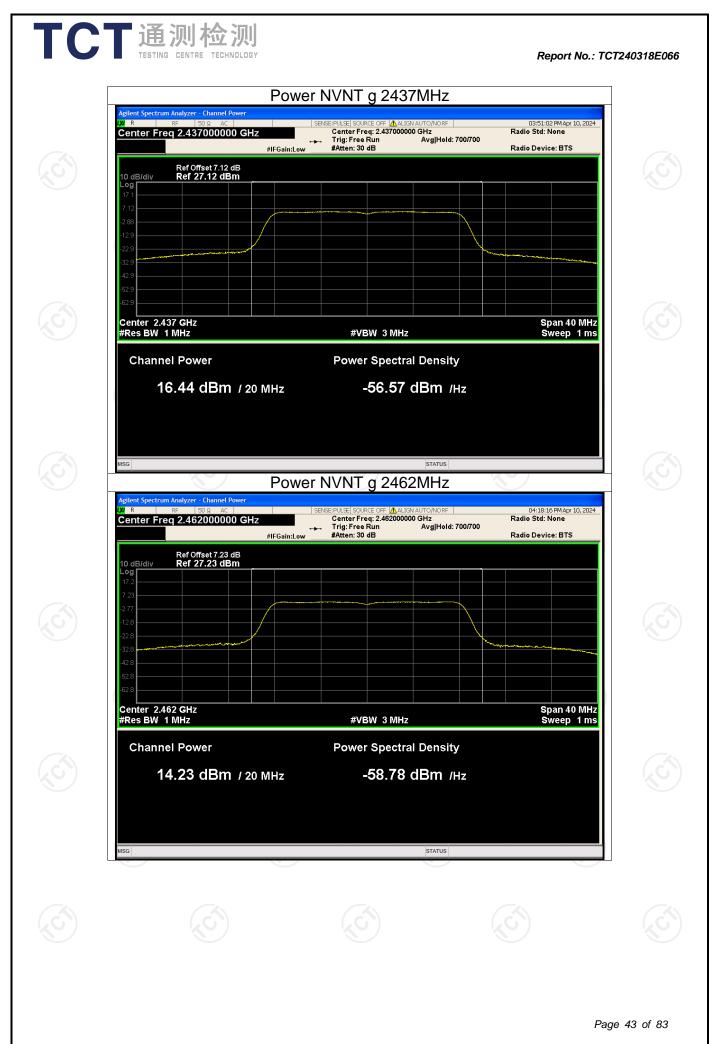


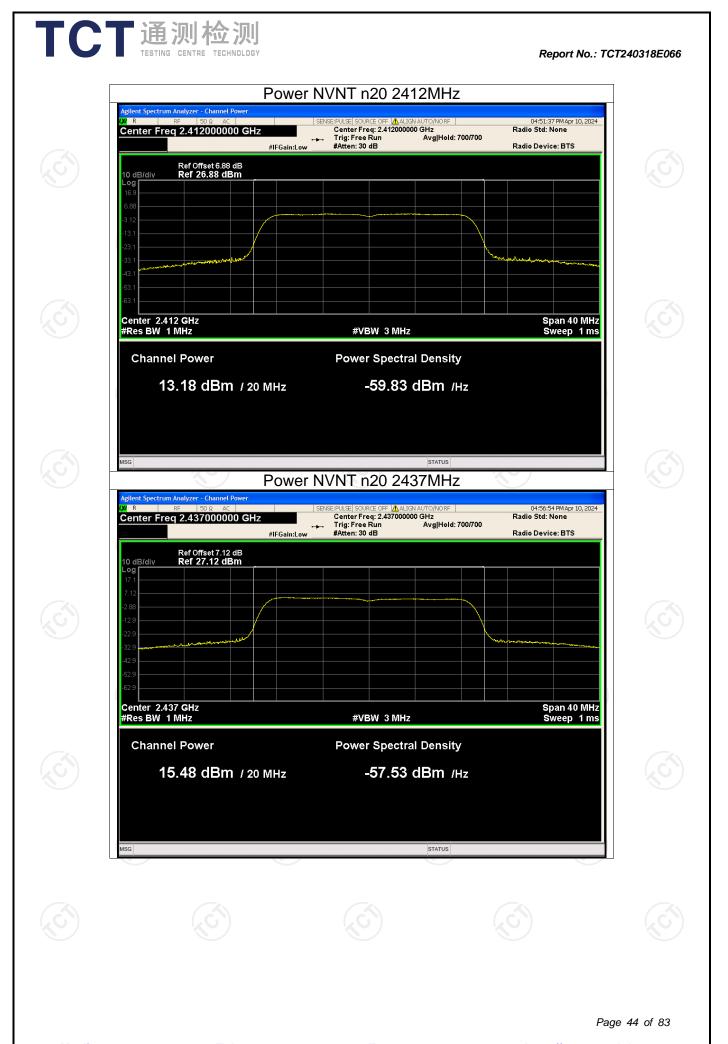


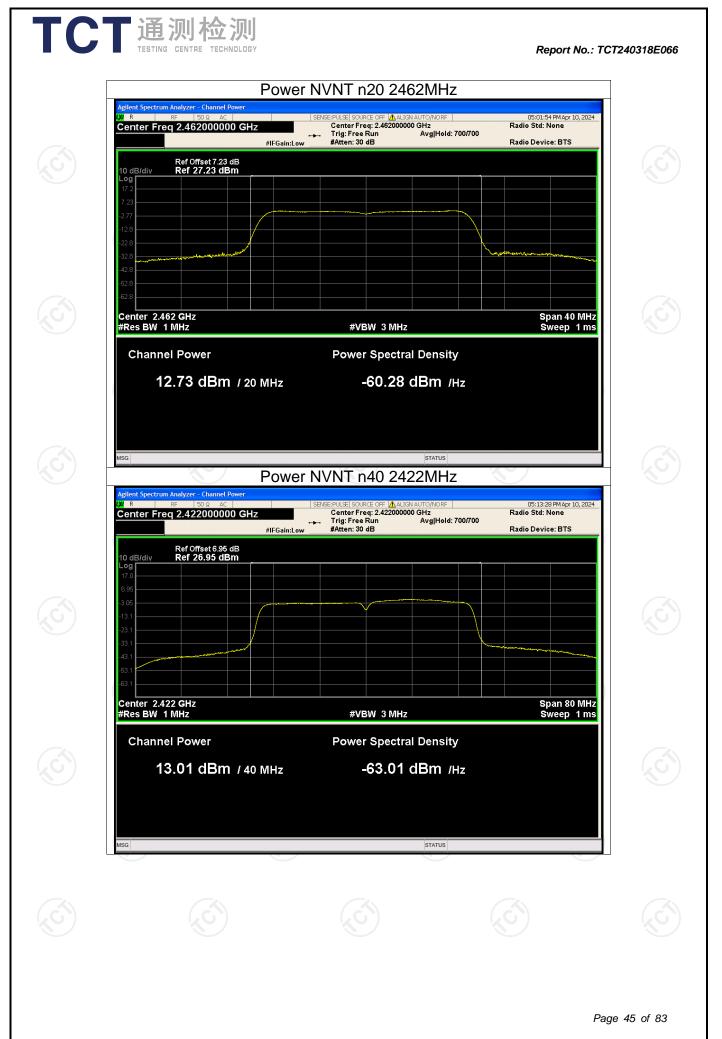
Report No.: TCT240318E066

Span 40 MHz Sweep 1 ms

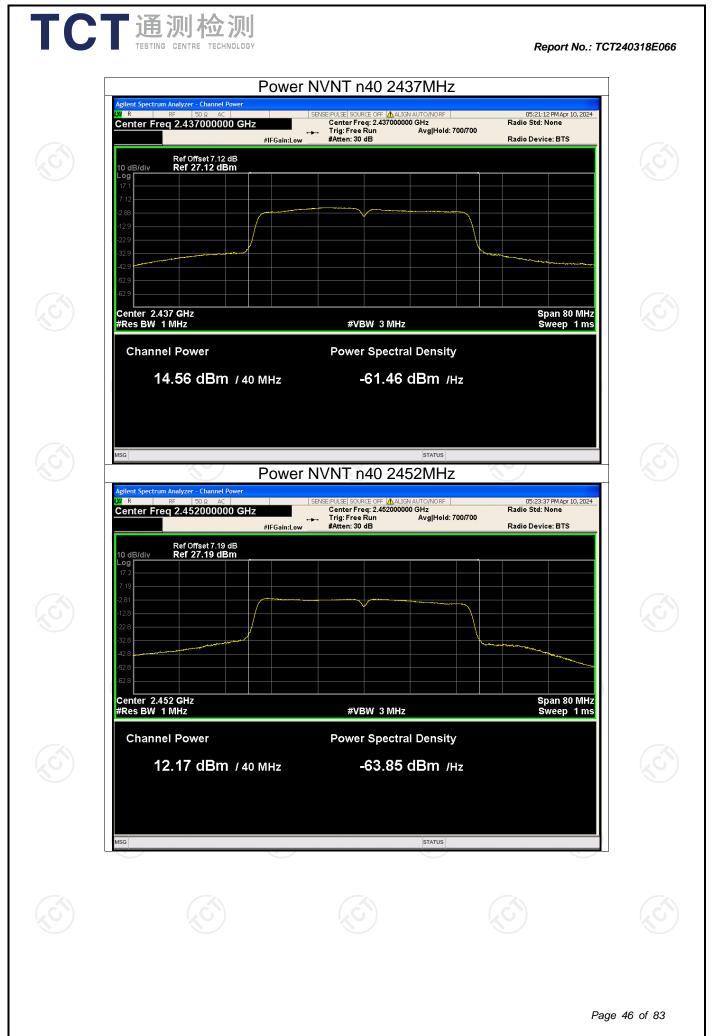








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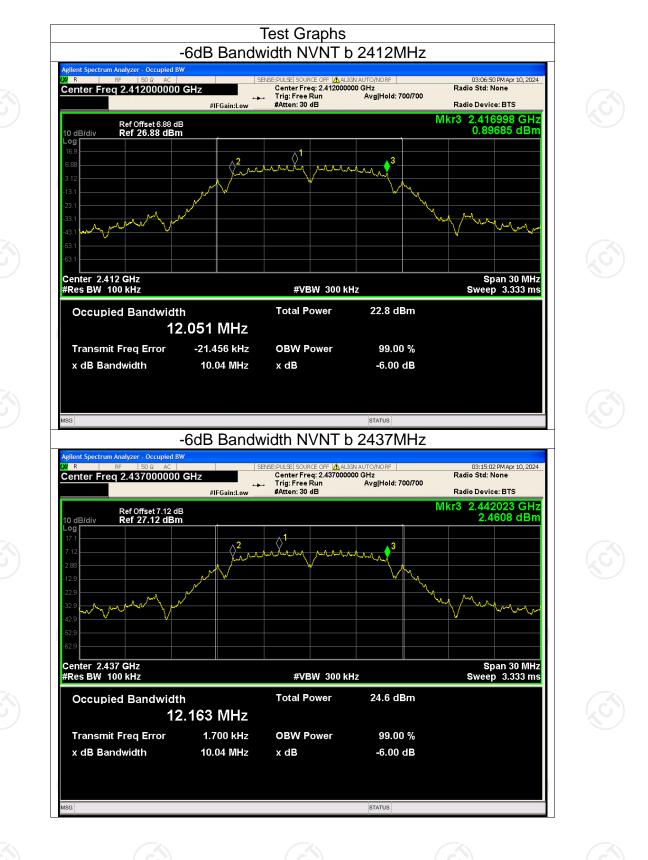


TCT	通测检测
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Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict		
b	2412	10.039	0.5	Pass		
b	2437	10.043	0.5	Pass		
b	2462	9.574	0.5	Pass		
g	2412	16.336	0.5	Pass		
g	2437	16.333	0.5	Pass		
g	2462	16.347	0.5	Pass		
n20	2412	17.400	0.5	Pass		
n20	2437	17.012	0.5	Pass		
n20	2462	17.422	0.5	Pass		
n40	2422	35.120	0.5	Pass		
n40	2437	35.114	0.5	Pass		
n40	2452	35.764	0.5	Pass		
	b b g g g n20 n20 n20 n20 n20 n40 n40	ModeFrequency (MHz)b2412b2437b2462g2412g2437g2462n202412n202437n202462n402422n402437	ModeFrequency (MHz)-6 dB Bandwidth (MHz)b241210.039b243710.043b24629.574g241216.336g243716.333g246216.347n20241217.400n20243717.012n20246217.422n40242235.120n40243735.114	ModeFrequency (MHz)-6 dB Bandwidth (MHz)Limit -6 dB Bandwidth (MHz)b241210.0390.5b243710.0430.5b24629.5740.5g241216.3360.5g243716.3330.5g246216.3470.5g246216.3470.5n20241217.4000.5n20243717.0120.5n40242235.1200.5n40243735.1140.5		

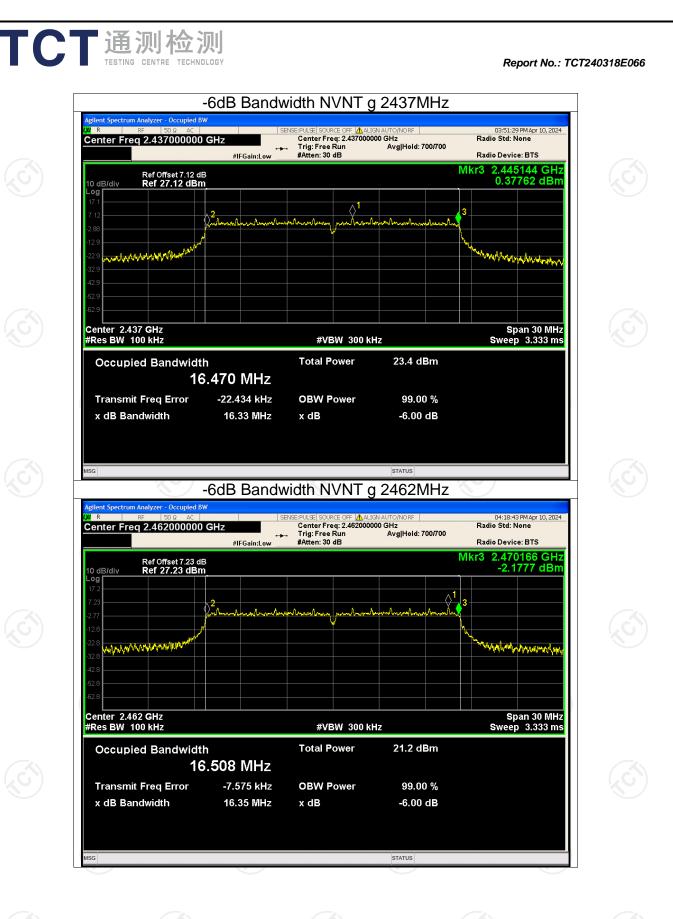
-6dB Bandwidth

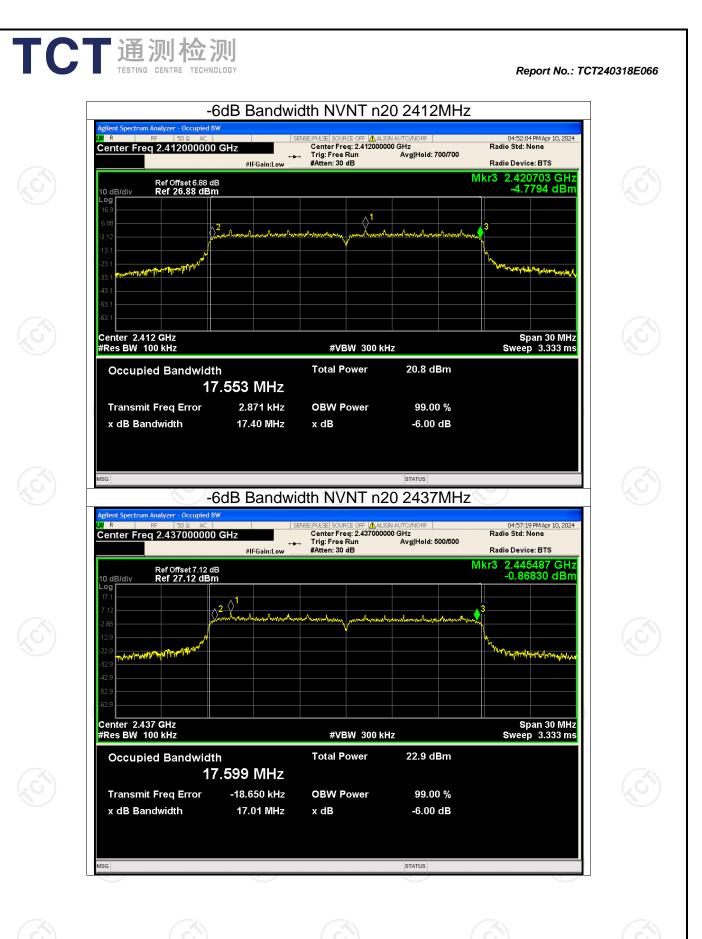
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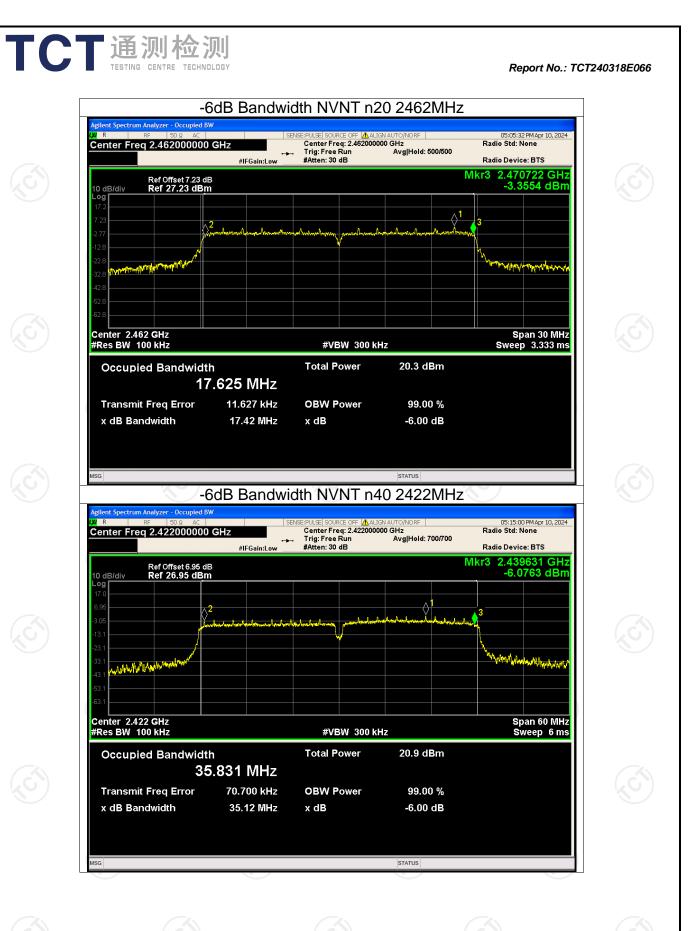
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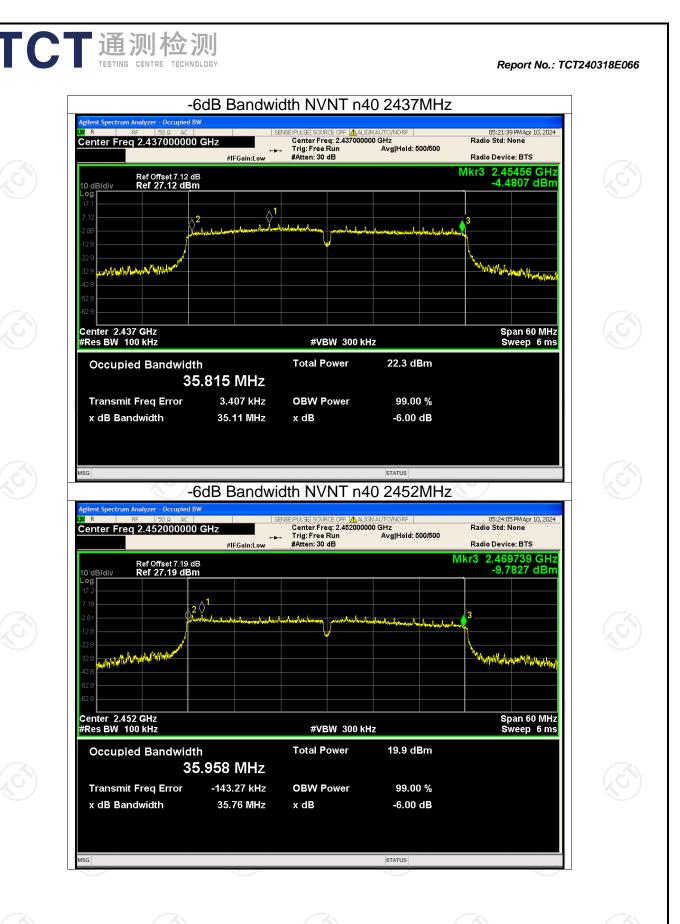


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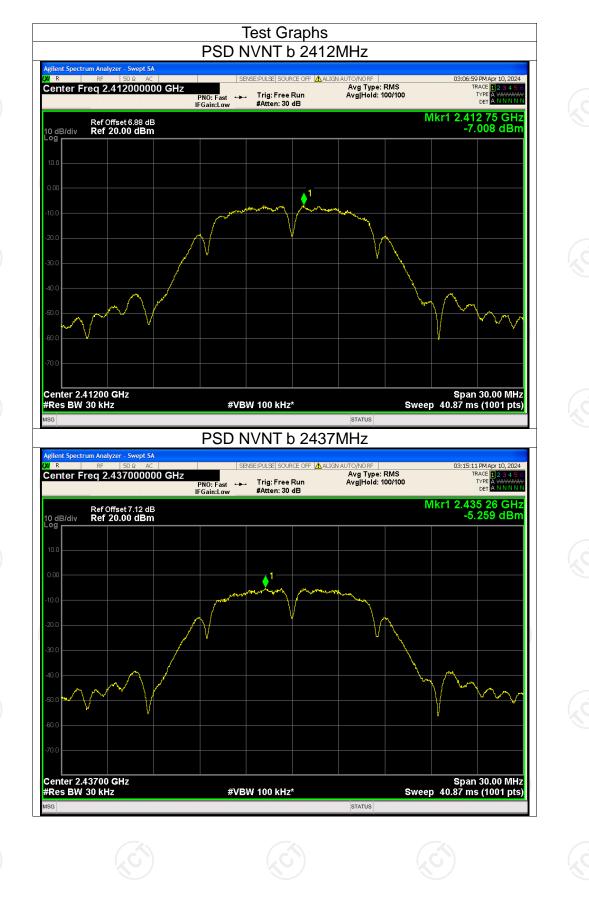
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Total PSD (dBm/3kHz)	Limit (dBm/ 3kHz)	Verdict
NVNT	b	2412	-7.01	0	-7.01	-17.01	8	Pass
NVNT	b	2437	-5.26	0	-5.26	-15.26	8	Pass
NVNT	b	2462	-7.98	0	-7.98	-17.98	8	Pass
NVNT	g	2412	-10.10	0.42	-9.68	-19.68	8	Pass
NVNT	g	2437	-8.60	0.42	-8.18	-18.18	8	Pass
NVNT	g	2462	-10.62	0.42	-10.20	-20.20	8	Pass
NVNT	n20	2412	-12.49	0.50	-11.99	-21.99	8	Pass
NVNT	n20	2437	-9.39	0.49	-8.90	-18.90	8	Pass
NVNT	n20	2462	-12.59	0.54	-12.05	-22.05	8	Pass
NVNT	n40	2422	-14.25	0.79	-13.46	-23.46	8	Pass
NVNT	n40	2437	-12.80	0.79	-12.01	-22.01	8	Pass
NVNT	n40	2452	-15.68	0.78	-14.90	-24.90	8	Pass
Nate: Tet				/001-11-)		1.1.1_\		

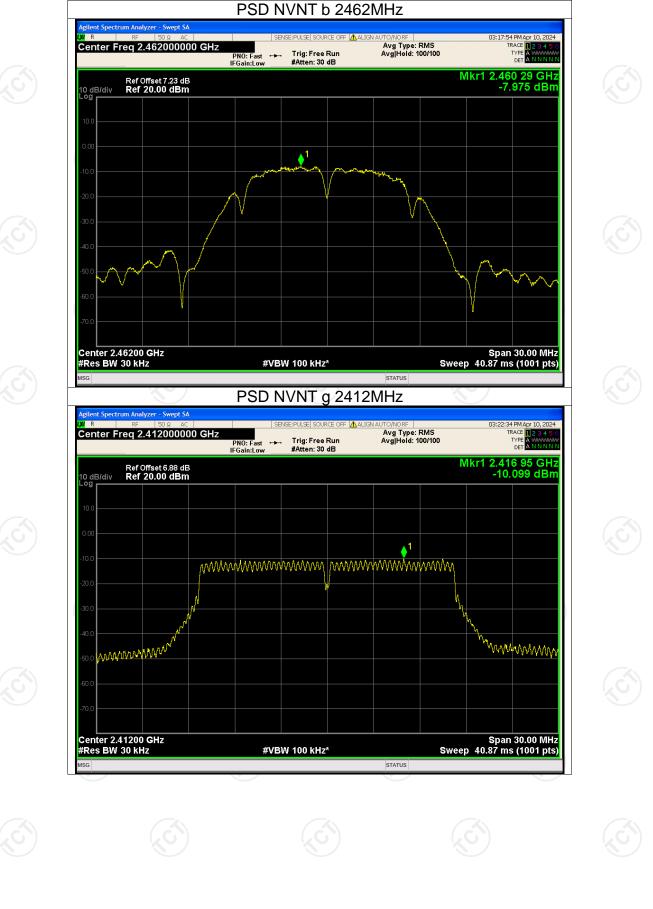
Note: Total PSD (dBm/3kHz) = Total PSD (dBm/30kHz) +10log(3kHz/30kHz)

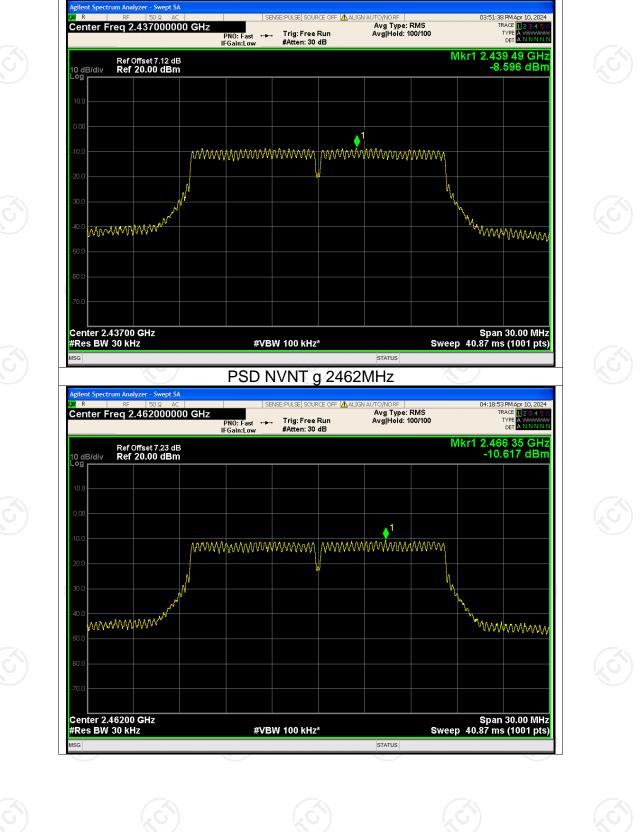
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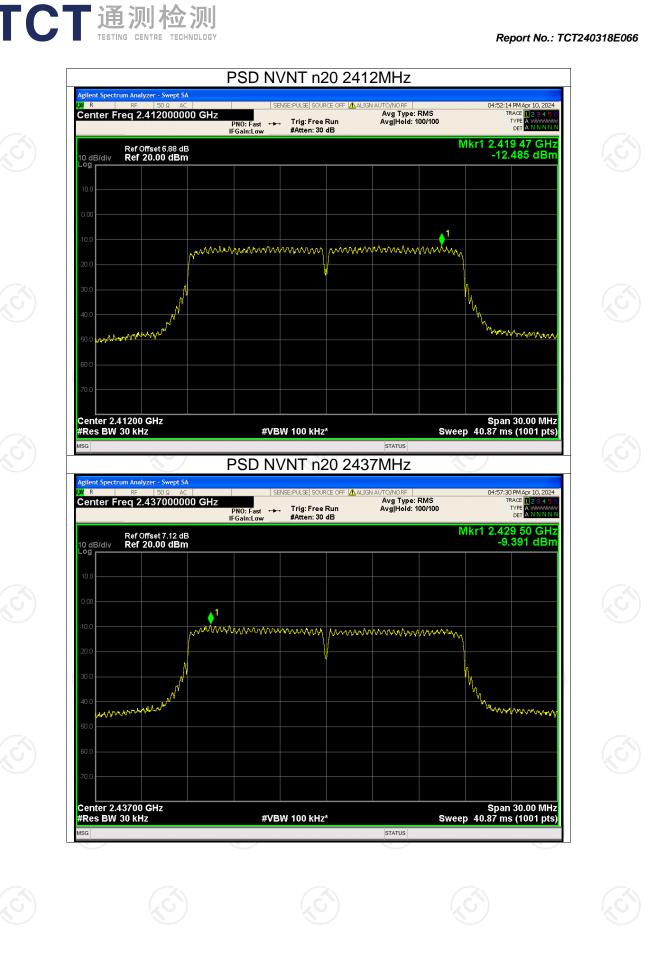


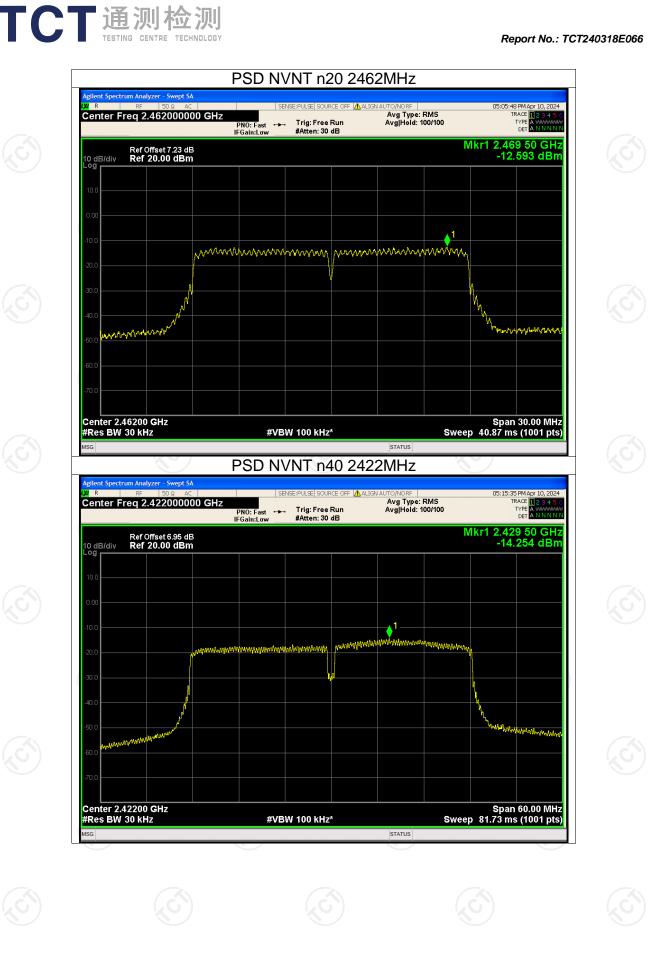
PSD NVNT g 2437MHz

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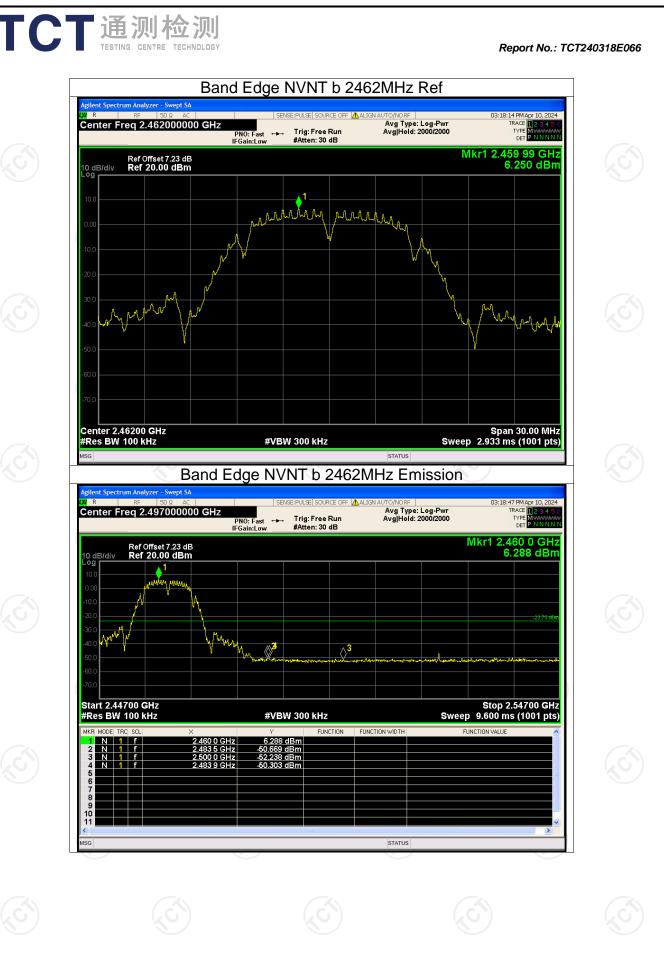


Band Edge								
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict			
NVNT	b	2412	-56.65	-30	Pass			
NVNT	b	2462	-56.55	-30	Pass			
NVNT	g	2412	-46.58	-30	Pass			
ŃVNT	g	2462	-39.61	-30	Pass			
NVNT	n20	2412	-39.85	-30	Pass			
NVNT	n20	2462	-37.03	-30	Pass			
NVNT 🔍	n40	2422	-39.82	-30	Pass			
NVNT	n40	2452	-34.95	-30	Pass			

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Band Edge NVNT g 2412MHz Ref gilent Spectrum Analyze SENSE:PULSE SOURCE OFF |▲ ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 2000/2000 03:34:04 PM Ap TRACE Apr 10, 2024 Center Freq 2.412000000 GHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 30 dB TYPE DET Mkr1 2.413 26 GHz -1.154 dBm Ref Offset 6.88 dB Ref 20.00 dBm 10 dB/div 1 Morenty when hyper to Now May Man Marsham the second se www. Center 2.41200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.933 ms (1001 pts) #VBW 300 kHz STATUS

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U F

10 dB/di -og **r**

Center Freq 2.377000000 GHz

Ref Offset 6.88 dB Ref 20.00 dBm

Band Edge NVNT g 2412MHz Emission SENSE:PULSE SOURCE OFF 🔥 ALIGN

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

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

Report No.: TCT240318E066

TRACE TYPE

TYPE DET

Mkr1 2.413 3 GHz -1.221 dBm

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Band Edge NVNT n20 2412MHz Ref

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Report No.: TCT240318E066

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Band Edge NVNT n20 2462MHz Ref

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

SENSE:PULSE SOURCE OFF ALIGN AUTO/NORF Avg Type: Log-Pwr Trig: Free Run Avg|Hold: 2000/2000

FCT通测检测 TESTING CENTRE TECHNOLOGY

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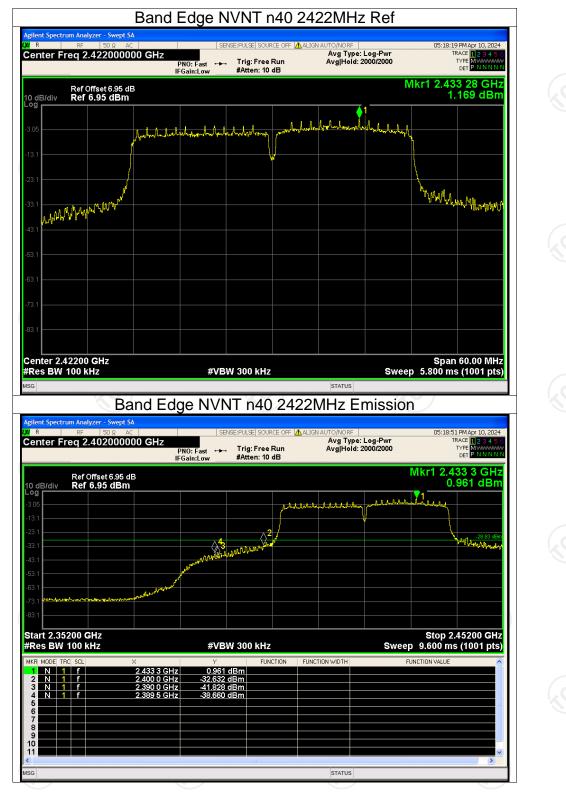
Center Freq 2.462000000 GHz

Report No.: TCT240318E066

46 PM Ap TRACE

TYPE DET

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Band Edge NVNT n40 2452MHz Ref

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

SENSE:PULSE| SOURCE OFF |▲ ALIGN AUTO/NORF | Avg Type: Log-Pwr -→ Trig: Free Run Avg|Hold: 2000/2000

Center Freq 2.452000000 GHz 10 dB/div

gilent Spectr

Ref Offset 7.19 dB Ref 20.00 dBm

Report No.: TCT240318E066

48 PM Ap TRACE

TYPE DET

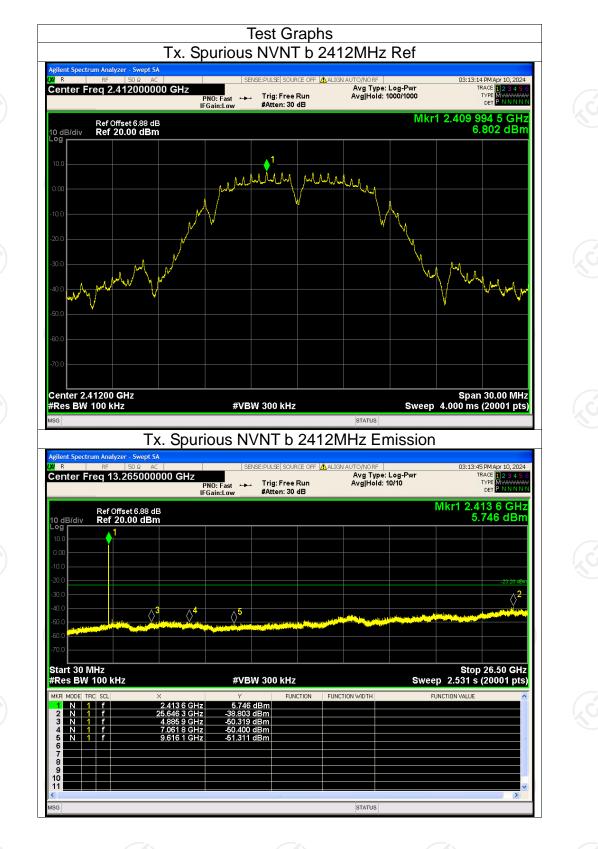
Mkr1 2.435 74 GHz -0.173 dBm

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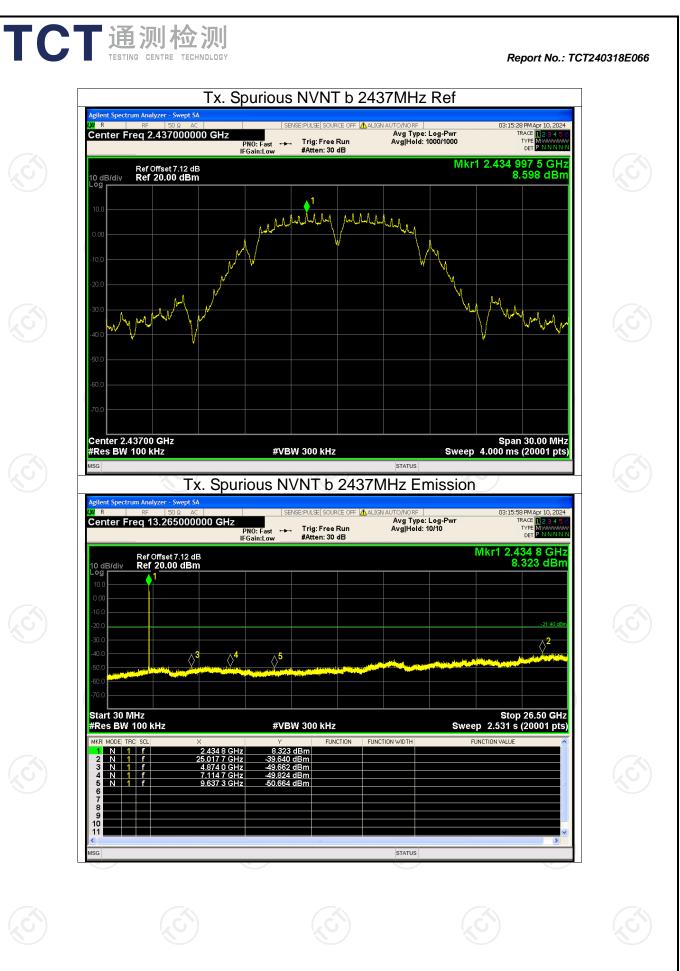
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	-45.60	-30	Pass
NVNT	b	2437	-48.23	-30	Pass
NVNT	b	2462	-44.83	-30	Pass
ŃVNT	g	2412	-37.01	-30	Pass
NVNT	g	2437	-45.55	-30	Pass
NVNT	g	2462	-52.78	-30	Pass
NVNT 🖉	n20	2412	-42.63	-30	Pass
NVNT 🛸	n20	2437	-44.67	-30	Pass
NVNT	n20	2462	-51.60	-30	Pass
NVNT	n40	2422	-51.11	-30	Pass
NVNT	n40	2437	-62.31	-30	Pass
NVNT	n40	2452	-49.26	-30	Pass

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Tx. Spurious NVNT n20 2412MHz Ref

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