	TEST REPOR	Т	
FCC ID	ZZ2-P402W		
Test Report No:	TCT241016E013		
Date of issue:	Oct. 26, 2024	S	No.
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, G	
Applicant's name: :	Amcrest Technologies LLC		
Address:	16727 Park Row Dr. Houston, T	exas 77084, Ur	nited States
Manufacturer's name :	Amcrest Industries LLC.		
Address:	16727 Park Row Dr. Houston, T	exas 77084, Ur	nited States
Standard(s):	FCC CFR Title 47 Part 15 Subpart E Section 15.407 KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 789033 D02 General U-NII Test Procedures New Rules v02r01		
	1080P HD Dual-Lens Pan/Tilt Wi-Fi Outdoor Security Camera		
Product Name:	1080P HD Dual-Lens Pan/Tilt W	'i-Fi Outdoor Se	curity Camera
	1080P HD Dual-Lens Pan/Tilt W N/A	'i-Fi Outdoor Se	ecurity Camera
Trade Mark :		'i-Fi Outdoor Se	ecurity Camera
Product Name : Trade Mark : Model/Type reference : Rating(s) :	N/A		ecurity Camera
Trade Mark : Model/Type reference :	N/A P402W		ecurity Camera
Trade Mark : Model/Type reference : Rating(s) : Date of receipt of test item : Date (s) of performance of	N/A P402W Refer to EUT description of page Oct. 16, 2024		ecurity Camera
Trade Mark : Model/Type reference : Rating(s) : Date of receipt of test item 	N/A P402W Refer to EUT description of page Oct. 16, 2024	e 3	ecurity Camera
Trade Mark : Model/Type reference : Rating(s) :	N/A P402W Refer to EUT description of page Oct. 16, 2024 Oct. 16, 2024 ~ Oct. 26, 2024	e 3	

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1. General Product Information

1.1. EUT description

Product Name:	1080P HD Dual-Lens Pan/Tilt Wi-Fi Outdoor Security	Camera
Model/Type reference:	P402W	
Sample Number	TCT241016E007-0101	
Operation Frequency:	Band 1: 5180 MHz ~ 5240 MHz Band 3: 5745 MHz ~ 5825 MHz	
Channel Bandwidth:	802.11a: 20MHz 802.11n: 20MHz, 40MHz 802.11ac: 20MHz, 40MHz 802.11ax: 20MHz, 40MHz	S
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)	
Modulation Type:	256QAM, 64QAM, 16QAM, BPSK, QPSK	
Antenna Type:	Rod Antenna	
Antenna Gain:	Band 1: 1.60dBi Band 3: 5.46dBi	
Rating(s):	Adapter 1 Information: MODEL: BS12A-1201000US Input: AC 100-240V, 50/60Hz, 0.4A Max. Output: DC 12V, 1000mA Adapter 2 Information: MODEL: TPQ-368D120100UW01 Input: AC 100-240V, 50/60Hz, 0.4A Max. Output: DC 12.0V, 1.0A	

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

1.2. Model(s) list

None.

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1.3. Test Frequency

Band 1

_				
20MHz			40MHz	
	Channel	Frequency	Channel	Frequency
	36	5180	38	5190
	40	5200	46	5230
	48	5240	(
		KU)		0

Band 3

20MHz		1	40MHz
Channel	Frequency	Channel	Frequency
149	5745	151	5755
157	5785	159	5795
165	5825	(
,	XU /		

Note:

C.

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:



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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(a)	PASS
26dB Emission Bandwidth& 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Restricted Bands around fundamental frequency	§15.407(b)	PASS
Radiated Emission	§15.407(b)	PASS
Frequency Stability	§15.407(g)	PASS
loto:	51) (<u>(</u> 01)	

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.

5. For the band 5.15-5.25GHz, EUT meet the requirements of 15.407(a)(ii).

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3. General Information

3.1. Test environment and mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	24.1 °C	24.5 °C
Humidity:	53 % RH	48 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar

Test Software:

Software Information:	putty	0
Power Level:	Band 1: 14 Band 3: 16	

Test Mode:

Engineer mode:

Keep the EUT in continuous transmitting by select channel and modulations with max duty cycle

The sample was placed 0.8m/1.5m for blow/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 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	No.
802.11a	6 Mbps	
802.11n(HT20)	6.5 Mbps	
802.11n(HT40)	13.5 Mbps	
802.11ac(VHT20)	6.5 Mbps	
802.11ac(VHT40)	13.5 Mbps	
802.11ax(HE20)	6.5Mbps	6
802.11ax(HE40)	13.5Mbps	

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TCT通测检测 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	1	1		
K l	Ke l			

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
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 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.



TCT通测检测 TESTING CENTRE TECHNOLOGY

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.

E.U.T Antenna:

Antenna -

The WIFI antenna is rod antenna which permanently attached, and the best case gain of the antenna is 5.46dBi of Band 3.



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5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	No.	
Test Method:	ANSI C63.10:2013			
Frequency Range:	150 kHz to 30 MHz	<u>(</u> ()		
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	61	661	
Test Setup:	40cm E.U.T AC power Test table/Insulation plane Remarkc E.U.T: Equipment Under Test LISN Line Impedence Stabilization N Test table height=0.8m	EMI Receiver	- AC power	
Test Mode:	Transmitting Mode			
Test Procedure:	 The E.U.T and simulators are connected to the main power 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 conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 			

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5.2.2. Test Instruments

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







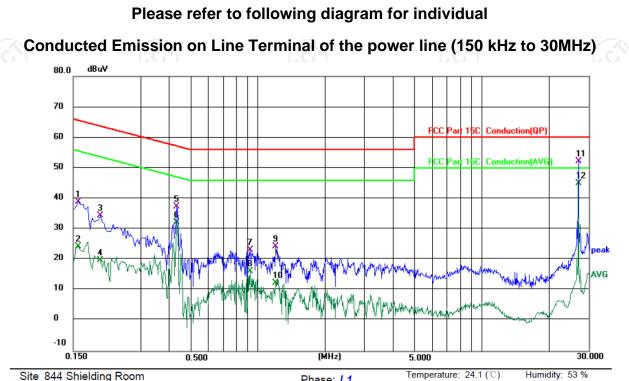






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5.2.3. Test data



Phase: L1 Power: AC 120 V/ 60 Hz Limit: FCC Part 15C Conduction(QP) Reading Correct Measure No. Mk. Limit Over Freq. Level Factor ment MHz dBuV dB dBuV dBuV dB Detector Comment 1 0.1580 29.29 9.67 38.96 65.57 -26.61 QP 2 0.1580 14.65 9.67 24.32 55.57 -31.25 AVG 3 0.1980 24.70 9.65 34.35 63.69 -29.34 QP 0.1980 4 10.23 9.65 19.88 53.69 -33.81 AVG 0.4339 27.31 10.09 37.40 57.18 -19.78 QP 5 0.4339 22.05 10.09 32.14 47.18 -15.04 AVG 6 7 0.9260 12.44 10.66 23.10 56.00 -32.90 QP 8 0.9260 5.59 10.66 16.25 46.00 -29.75 AVG 9 1.2019 14.65 9.76 24.41 56.00 -31.59 QP 10 1.2019 2.59 9.76 12.35 46.00 -33.65 AVG 27.0019 41.56 10.71 52.27 60.00 -7.73 QP 11 -5.02 27.0019 34.27 10.71 AVG 44.98 50.00 12

Note:

Freq. = Emission frequency in MHz Reading level ($dB\mu V$) = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

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

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

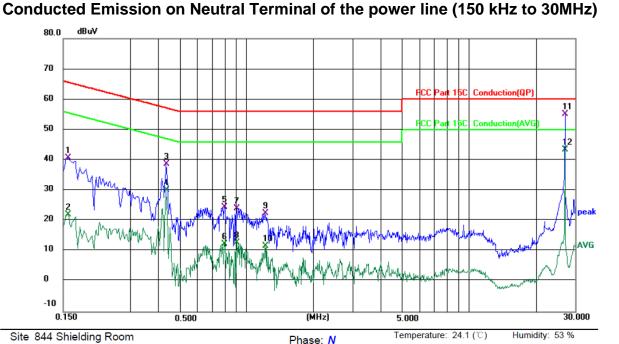
Q.P. =Quasi-Peak

AVG =average

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

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	•					13e. /		
Limit: F	CC Part 15	C Conduct	ion(QP)		Pow	er: AC 12	20 V/ 60 Hz	
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1580	31.13	9.65	40.78	65.57	-24.79	QP	
2	0.1580	12.40	9.65	22.05	55.57	-33.52	AVG	
3	0.4340	28.61	10.07	38.68	57.18	-18.50	QP	
4	0.4340	19.99	10.07	30.06	47.18	-17.12	AVG	
5	0.7980	14.10	10.48	24.58	56.00	-31.42	QP	
6	0.7980	1.94	10.48	12.42	46.00	-33.58	AVG	
7	0.9060	13.60	10.60	24.20	56.00	-31.80	QP	
8	0.9060	2.18	10.60	12.78	46.00	-33.22	AVG	
9	1.2140	12.83	9.72	22.55	56.00	-33.45	QP	
10	1.2140	1.98	9.72	11.70	46.00	-34.30	AVG	
11 *	26.9980	44.38	10.65	55.03	60.00	-4.97	QP	
12	26.9980	32.73	10.65	43.38	50.00	-6.62	AVG	

Note:

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

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

Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ax(HE40) and the worst case Mode (Lowest channel and 802.11n(HT20)) was submitted only.

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5.3. Maximum Conducted Output Power

5.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 2.1046	on 15.407(a)& Part 2 J Section			
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E Frequency Band (MHz) 5180 - 5240 24dBm(250mW) for client device 24dBm(250mW) or 11 dBm +				
		Limit			
	5180 - 5240	24dBm(250mW) for client device			
Limit:	5260 - 5320 5470 - 5725	24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz 24dBm(250mW) or 11 dBm + 10 log B, B is the 26 dB emission bandwidth in megahertz			
	5745 - 5825	30dBm(1W)			
Test Setup:	Spectrum Analyzer	EUT			
Test Mode:	Transmitting mode w	vith modulation			
Test Procedure:	KDB789033 D02 Rules v02r01 Se 2. The RF output of meter by RF cab to the results for 3. Set to the maximu EUT transmit cor	EUT was connected to the power le. The path loss was compensated each measurement. Im power setting and enable the ntinuously. lucted output power and record the			
Test Result:	PASS				
Remark:	+10log(1/x) X is duty	ower= measurement power v cycle=1, so 10log(1/1)=0 ower= measurement power			

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Power Meter	Agilent	E4418B	MY45100357	Jun. 26, 2025
Power Sensor	Agilent	8184A	MY41096530	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		

			_	

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5.4. 6dB Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 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	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	1 (0)	1 (c





5.5. 26dB Bandwidth and 99% Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Limit:	No restriction limits
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW. Set the Video bandwidth (VBW) = 3 *RBW. In order to make an accurate measurement. Measure and record the results in the test report.
Test Result:	PASS
\mathcal{C}	

5.5.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	1	1





5.6. Power Spectral Density

5.6.1. Test Specification

-	
Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F
Limit:	≤11.00dBm/MHz for Band 1 5150MHz-5250MHz(client device) ≤11.00dBm/MHz for Band 2A&2C 5250-5350&5470-5725 ≤30.00dBm/500KHz for Band 3 5725MHz-5850MHz The e.i,r,p spectral density for Band 1 5150MHz – 5250 MHz should not exceed 10dBm/MHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. Allow the sweeps to continue until the trace stabilizes. Use the peak marker function to determine the maximum amplitude level. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for
	measurements above 1 GHz, so as to simulate a near free-space environment.

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB		

5.7. Band edge 5.7.1. Test Specification Test Requirement: FCC CFR47 Part 15E Section 15.407

Test Method:	ANSI C63.10 20	013		C.	
	In un-restricted ba For Band 1&2A&2 For Band 3:		z	$\overline{\mathcal{C}}$	
	Frequency (MHz)	Limit (dBm/MHz)	Frequency (MHz)	Limit (dBm/MHz)	
	< 5650	-27	5850~5855	27~15.6	
	5650~5700	-27~10	5855~5875	15.6~10	
Limit:	5700~5720	10~15.6	5875~5925	10~-27	
	5720~5725	15.6~27	> 5925	-27	
	$E[dB\mu V/m] = EIR$				
	In restricted band				
	Detec		Limit@	93m	
	Pea	k	74dBµ	ıV/m	
	AVG	6	54dBµ		
	(Turnave	Ground Reference Re Test Receiver	he Contolor		
Test Mode:	Transmitting mo	de with modu	ulation		
Test Procedure:	 Transmitting mode with modulation 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 				

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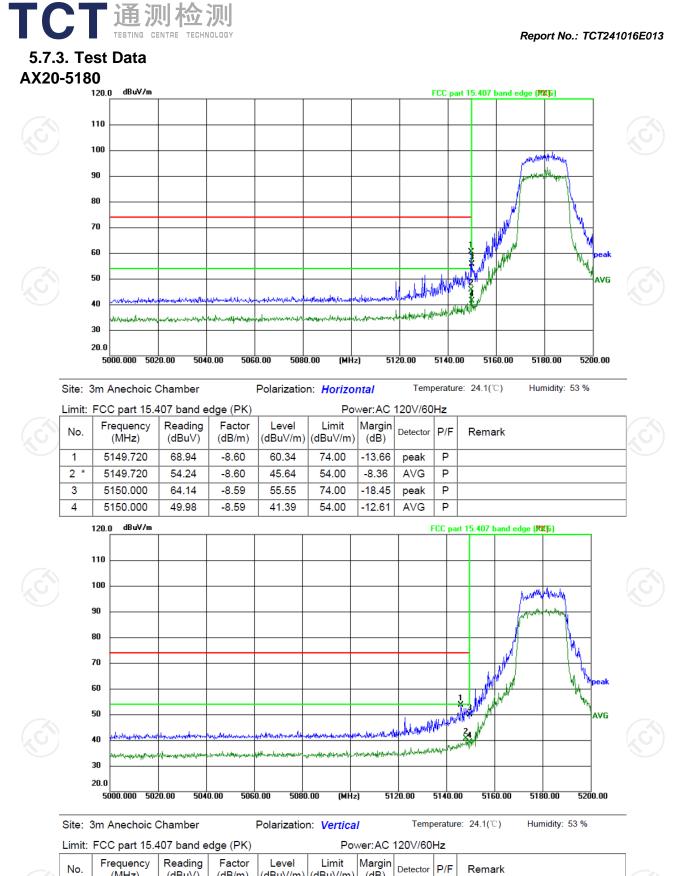
	Report No.: TCT241016E
	 Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
Test Result:	PASS

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5.7.2. Test Instruments

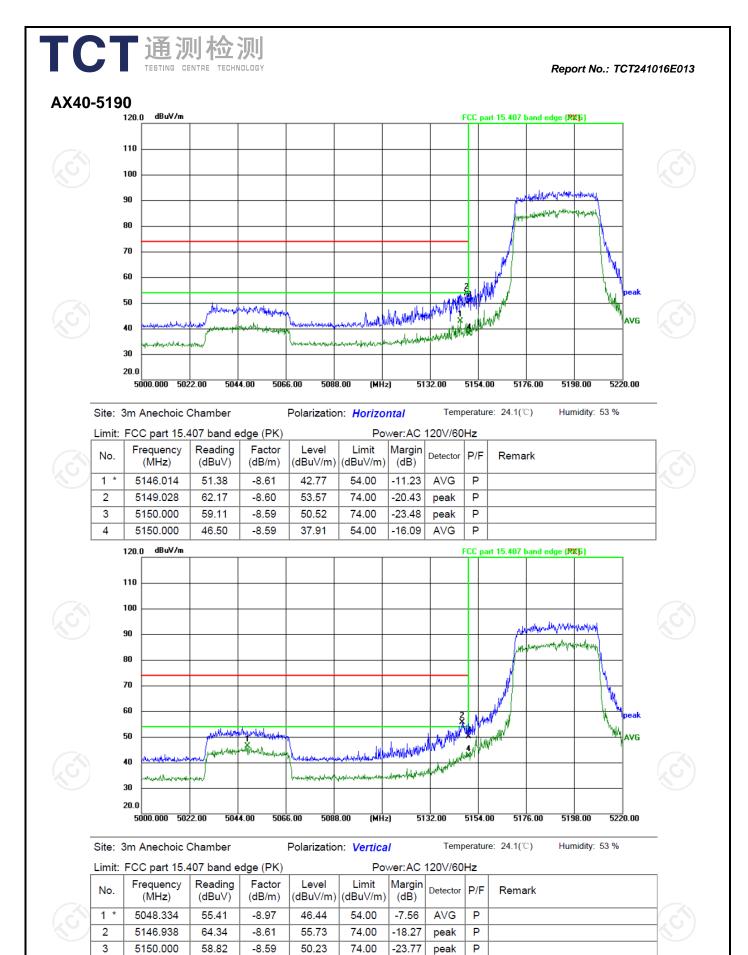
Radiated Emission Test Site (966)										
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due						
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025						
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025						
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025						
Pre-amplifier	SKET	LNPA_0118G- 45	SK202101210 2	Jan. 31, 2025						
Pre-amplifier	SKET	LNPA_1840G- 50	SK202109203 500	Jan. 31, 2025						
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025						
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025						
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025						
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025						
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025						
Coaxial cable	SKET	RE-03-D	1	Jun. 26, 2025						
Coaxial cable	SKET	RE-03-M	1	Jun. 26, 2025						
Coaxial cable	SKET	RE-03-L	1	Jun. 26, 2025						
Coaxial cable	SKET	RE-04-D	(\mathbf{C})	Jun. 26, 2025						
Coaxial cable	SKET	RE-04-M	1	Jun. 26, 2025						
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025						
Antenna Mast	Keleto	RE-AM	\mathcal{D}_{I}							
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/						

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X	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
5)	1	5146.000	62.28	-8.61	53.67	74.00	-20.33	peak	Ρ		(\mathbf{x})
	2 *	5148.220	49.28	-8.60	40.68	54.00	-13.32	AVG	Ρ		
	3	5150.000	58.44	-8.59	49.85	74.00	-24.15	peak	Ρ		
	4	5150.000	47.68	-8.59	39.09	54.00	-14.91	AVG	Ρ		

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

-11.25

Ρ

AVG

54.00

5150.000

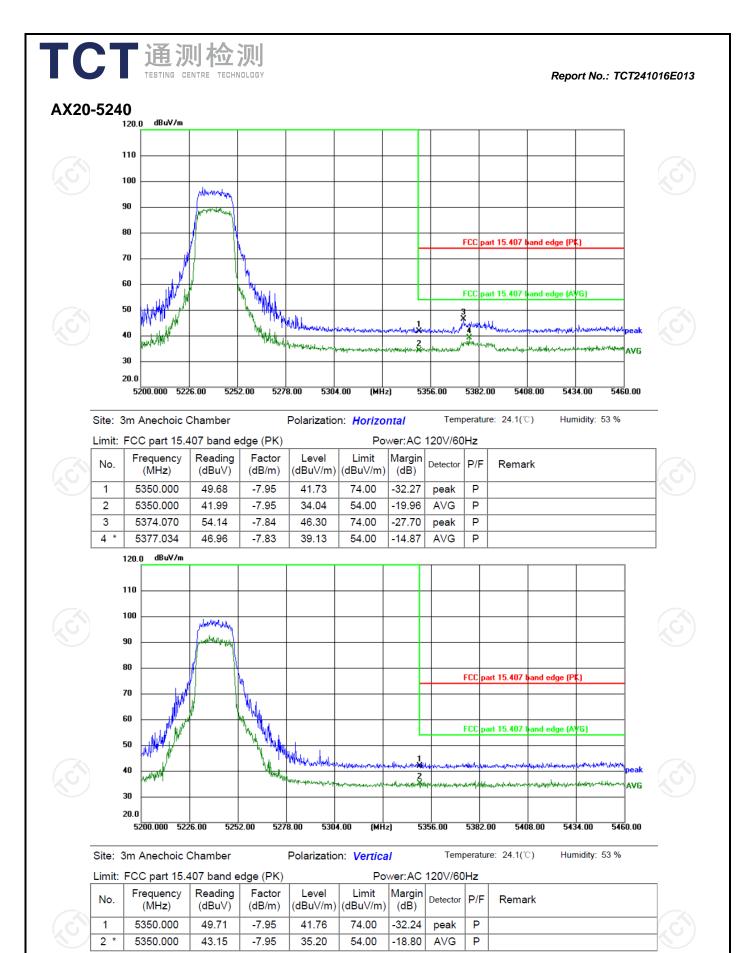
4

51.34

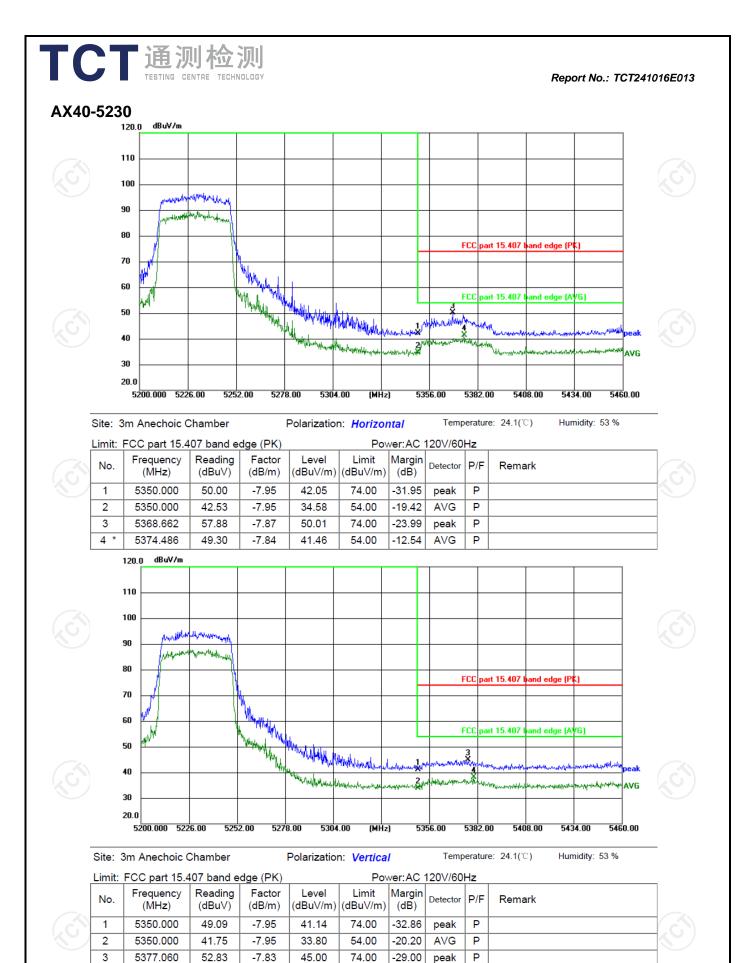
-8.59

42.75

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54.00

-15.82

38.18

Ρ

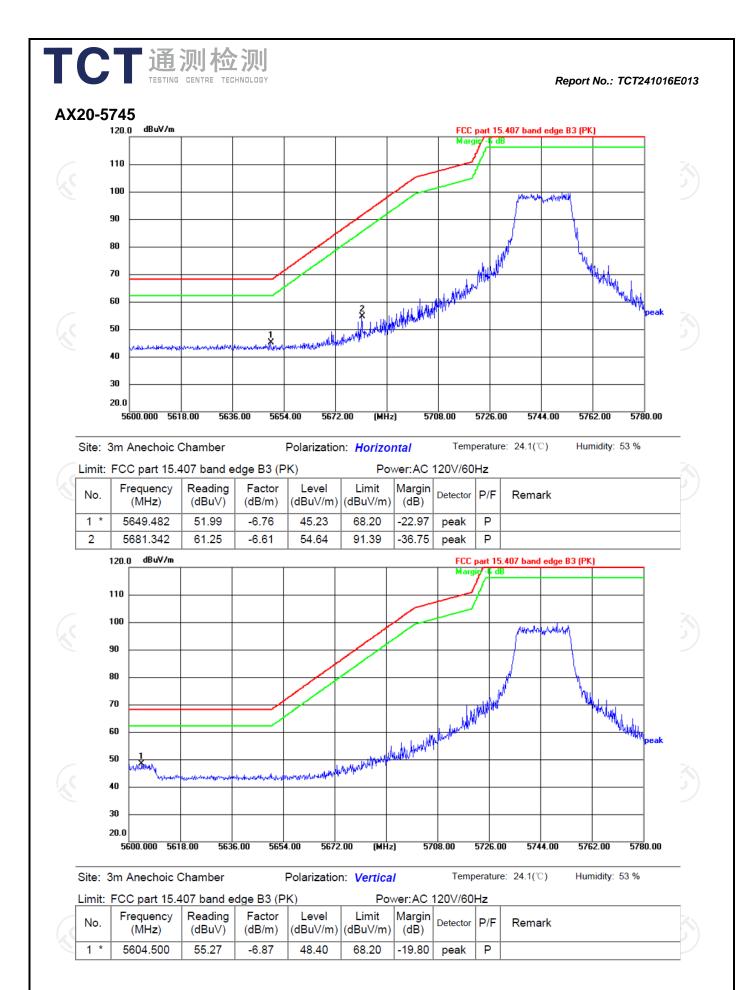
AVG

5380.206

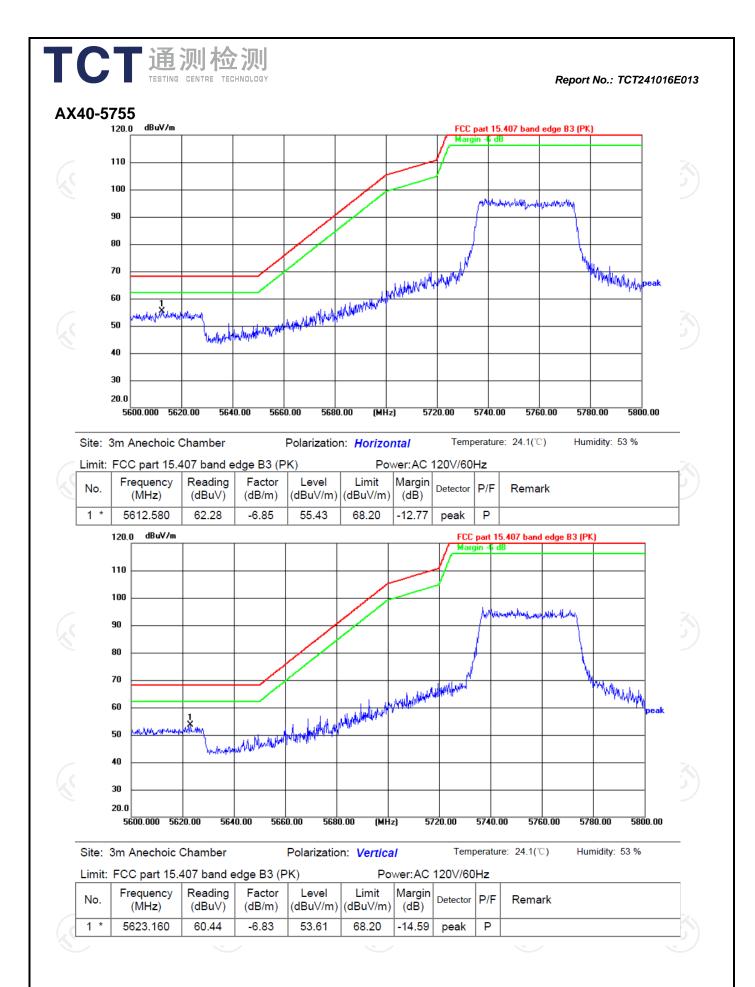
4 *

-7.82

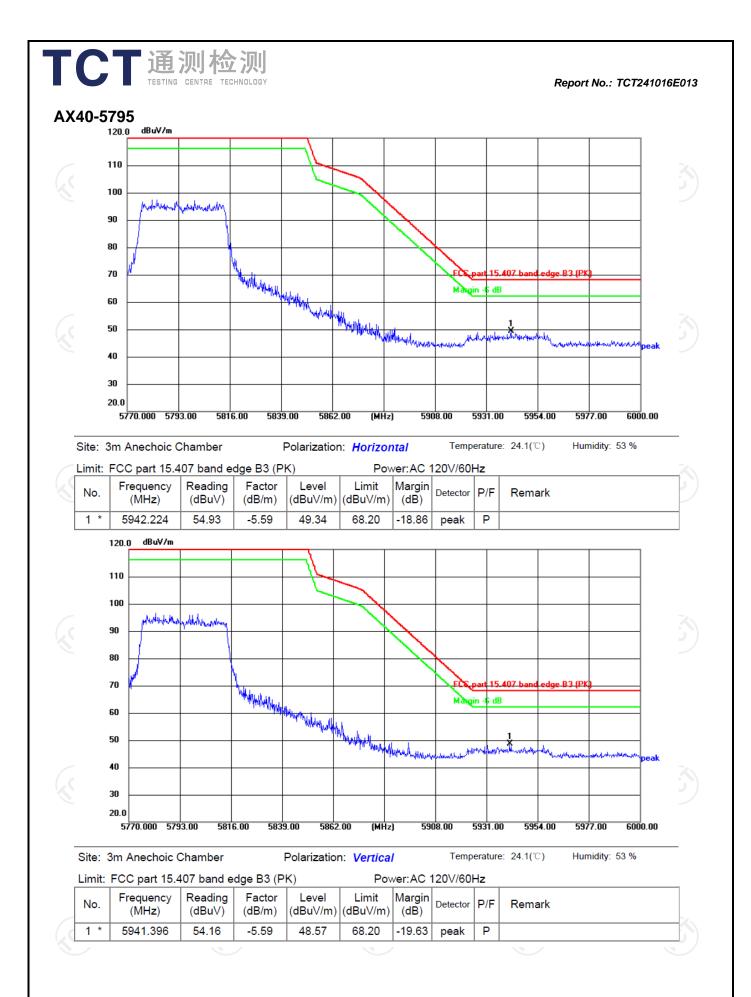
46.00



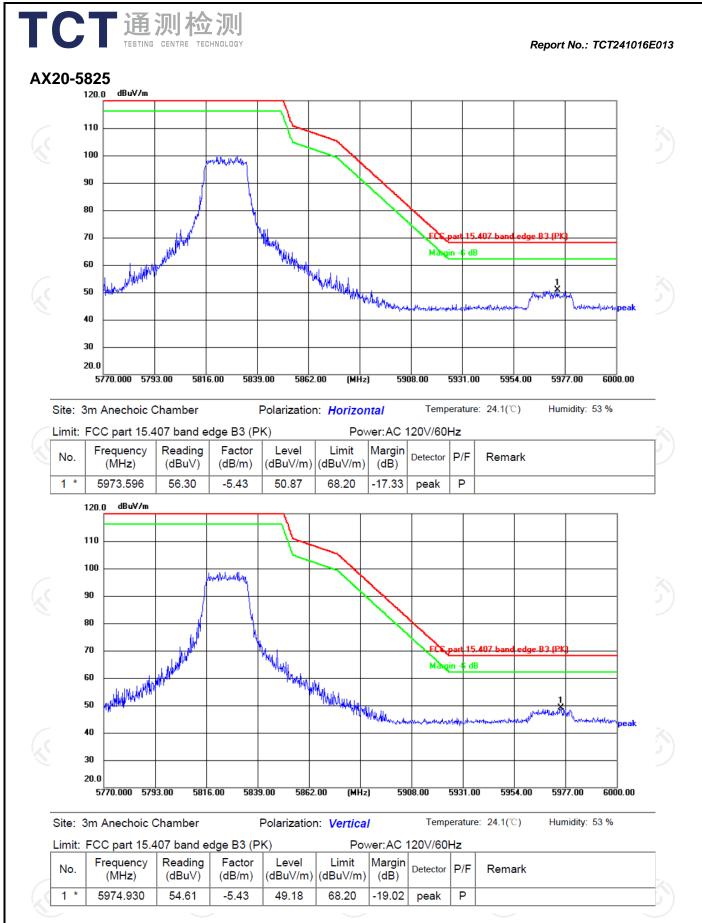
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Note: All modulation (802.11a, 802.11n, 802.11ac, 802.11ax) have been tested, only the worst case in 802.11ax be reported.

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5.8. Unwanted Emissions

5.8.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 S	ection 15	.407 & 1	5.209 & 15.205						
Test Method:	KDB 789033	3 D02 v02r	01								
Frequency Range:	9kHz to 40G	9kHz to 40GHz									
Measurement Distance:	3 m										
Antenna Polarization:	Horizontal &	Vertical									
Operation mode:	Transmitting	mode wit	h modulat	ion							
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz	Detector Quasi-peak Quasi-peak Quasi-peak Peak Peak	9kHz	VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value						
	per FCC Par general field below table, In restricted	Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table, In restricted bands:									
	Frequer Above 7		Detec Pea AVC	k	Limit@3m 74dBµV/m 54dBµV/m						
l imit			Field Strengt		Measurement						
Limit:	Frequency		(microvolts/m	ieter)	Distance (meters)						
Limit:	0.009-0.490		2400/F(KHz)		300						
Limit:	0.009-0.490 0.49 -1.705	3)	2400/F(KHz) 24000/F(KHz		300 3						
Limit:	0.009-0.490 0.49 -1.705 1.705-30		2400/F(KHz) 24000/F(KHz 30		300 3 30						
Limit:	0.009-0.490 0.49 -1.705 1.705-30 30-88		2400/F(KHz) 24000/F(KHz 30 100		300 3 30 3						
Limit:	0.009-0.490 0.49 -1.705 1.705-30 30-88 88-216	3) 	2400/F(KHz) 24000/F(KHz 30 100 150		300 3 30 3 3 3						
Limit:	0.009-0.490 0.49 -1.705 1.705-30 30-88		2400/F(KHz) 24000/F(KHz 30 100		300 3 30 3						
Limit:	0.009-0.490 0.49 -1.705 1.705-30 30-88 88-216 216-960		2400/F(KHz) 24000/F(KHz 30 100 150 200 500		300 3 30 3 3 3 3						
Limit: Test setup:	0.009-0.490 0.49 -1.705 1.705-30 30-88 88-216 216-960 Above 960 In un-restrict For radiated	ed bands:	2400/F(KHz) 24000/F(KHz) 30 100 150 200 500 68.2dBu ¹	y/m)MHz Pre-/	300 3 30 3 3 3 3						

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CT 通测检测	
TESTING CENTRE TECHNOLOGY	Report No.: TCT241016E0
	EUT Turm Table Antenna Antenna RF Test Receiver Turm Table
	Ground Plane
	Above 1GHz
	Horn Anlanda Tower Horn Anlanda Tower UTUrntable) Ground Reference Plane Test Receiver
	1. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter camber. The table
Test Procedure:	 was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen
Test results:	reported in a data sheet.
restresults.	

5.8.2. Test Instruments

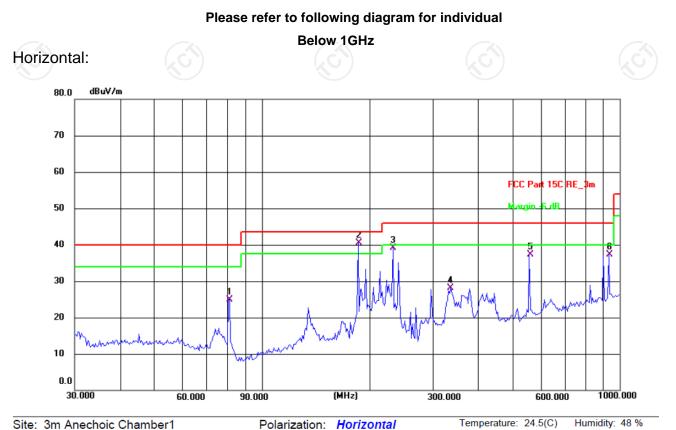
TCT通测检测 TCT通测检测

Radiated Emission Test Site (966)									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025					
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025					
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025					
Pre-amplifier	SKET	LNPA_0118G- 45	SK202101210 2	Jan. 31, 2025					
Pre-amplifier	SKET	LNPA_1840G- 50	SK202109203 500	Jan. 31, 2025					
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025					
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025					
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025					
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025					
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Feb. 02, 2025					
Coaxial cable	SKET	RE-03-D	1	Jun. 26, 2025					
Coaxial cable	SKET	RE-03-M	1	Jun. 26, 2025					
Coaxial cable	SKET	RE-03-L	1	Jun. 26, 2025					
Coaxial cable	SKET	RE-04-D	(G)	Jun. 26, 2025					
Coaxial cable	SKET	RE-04-M	/	Jun. 26, 2025					
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025					
Antenna Mast	Keleto	RE-AM	21						
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/					

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5.8.3. Test Data

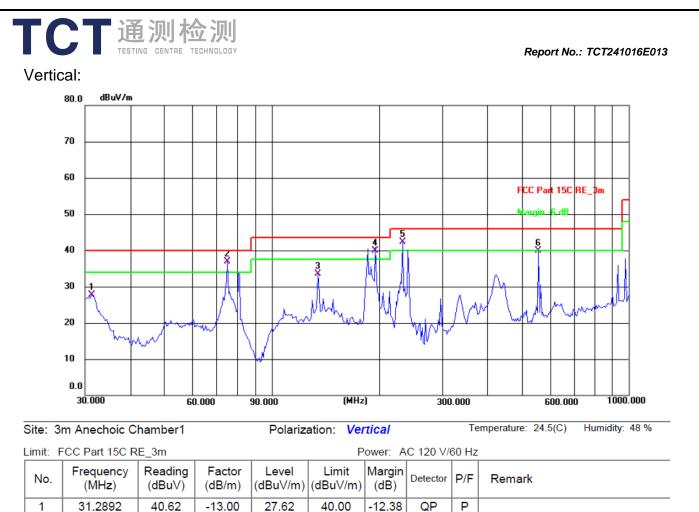
TCT通测检测 TESTING CENTRE TECHNOLOGY



Limit: FCC Part 15C RE_3m Power: AC 120 V/60 Hz Frequency Reading Factor Level Limit Margin Detector P/F No. Remark (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 80.6441 41.24 -16.37 24.87 40.00 -15.13 QP Ρ 1 2 185.7882 54.40 -13.92 40.48 43.50 -3.02 QP Ρ * 46.00 3 232.5318 53.26 -14.16 39.10 -6.90 QP Ρ 337.2155 38.25 -10.21 28.04 46.00 -17.96 4 QP Ρ 5 558.7301 43.58 -6.19 37.39 46.00 -8.61 QP Ρ 6 932.2715 37.91 -0.59 37.32 46.00 -8.68 QP Ρ

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Report No.: TCT241016E013



	•	•••=••=						<u> </u>	· ·	
Γ	2 *	75.1821	51.66	-14.85	36.81	40.00	-3.19	QP	Р	
	3	134.5591	45.88	-12.37	33.51	43.50	-9.99	QP	Р	
	4 !	195.1363	54.40	-14.48	39.92	43.50	-3.58	QP	Р	
	5!	232.5318	56.46	-14.16	42.30	46.00	-3.70	QP	Р	
	6	558.7300	46.00	-6.19	39.81	46.00	-6.19	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

- Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40), 802.11ax(HE20), 802.11ax(HE40) and the worst case Mode (Lowest channel and 802.11n(HT20)) was submitted only.
- 3.Measurement (dBµV) = Reading level + Correction Factor, correction Factor= Antenna Factor + Cable loss Pre-amplifier.

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		ペリ イルビ パ EENTRE TECHNOL	OGY				Repo	rt No.: TCT24	41016E01
				Modulation Ty	/pe: Band 1				
				11a CH36:	5180MHz				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emission Level		Peak limit		Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	− (dBµV/m)	(dBµV/m)	(dB)
10360	Н	38.13		1.78	39.91		68.2		-28.29
15540	H	39.24		5.21	44.45		74	54	-9.55
	(KH)		5)		<u> </u>	
					e				
10360	V	38.62		1.78	40.4		68.2		-27.8
15540	V	40.98		5.21	46.19		- 74	54	-7.81
$\mathcal{G}^{\underline{n}}$	V					(, G`)		6.)
				11a CH40: 5	5200MHz				
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)	Margir (dB)
10400	Н	39.55		1.83	41.38	(ubµ v/m)	68.2		-26.82
15600	H	40.03		5.23	41.36		74	 54	-20.02
	<u>н</u> Н			5.23					
		$(\overline{\mathbf{c}})$				($\overline{\mathbf{O}}$		-(
10400	V	40.39		1.83	42.22		68.2		-25.98
15600	V	41.64		5.23	46.87		74	54	-7.13
	V			5.25	40.07	 X			-7.13
	v			11a CH48: {	5240MHz				
	1	Peak	AV	Correction					
Frequency	Ant. Pol.	reading	reading	Factor	Emission Level			AV limit	Margir
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	38.12		1.85	39.97		68.2		-28.23
15720	Н	39.65		5.25	44.9		74	54	-9.1
	Н								
	(G)		(.C)		(, ((G)	
10480	V	38.18		1.85	40.03	J	68.2		-28.17
15720	V	40.59		5.25	45.84		74	54	-8.16
	V								
			11	n(HT20) CH3	86: 5180MH	z			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissic	on Level	Peak limit		Margir
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10360	H	41.71		1.78	43.49)	68.2		-24.71
15540	Н	40.8		5.21	46.01		74	54	-7.99
	Н								
					1				
10360	V	42.02		1.78	43.8		68.2		-24.4
15540	V	41.48		5.21	46.69		74	54	-7.31
	V								

		川<u></u>(で) CENTRE TECHNOL	.OGY				Repo	ort No.: TCT2	41016E0 ⁻
							-1-		
			11	n(HT20) CH	40: 5200MH	lz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor	Emissio		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margi (dB)
(11112)	11/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dbµ v/m)	(αυμν/π)	(ub)
10400	Н	40.12		1.83	41.95		68.2		-26.2
15600	Н	41.24		5.23	46.47		74	54	-7.53
	Н								
	(\mathcal{G})		(, C))		5)		(G)	
10400	V	40.03		1.83	41.86		68.2		-26.34
15600	V	39.76		5.23	44.99		74	54	-9.01
	V								
			11	n(HT20) CH	48: 5240MF	Ηz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissic	on Level	Peak limit	AV limit	Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	ΎΗ.	41.97		1.85	43.82)	68.2		-24.38
15720	Н	41.44		5.25	46.69		74	54	-7.31
	Н								
				G	1				
10480	V	40.16		1.85	42.01		68.2		-26.19
15720	V	40.87		5.25	46.12		74	54	-7.88
	V								
			11	n(HT40) CH	38: 5190MH	Ηz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissi Peak	on Level	Peak limit (dBµV/m)		Margi (dB)
		· · /	,	. ,	(dBµV/m)	(dBµV/m)			
10380	Н	42.09		1.80 🕓	43.89	(68.2		-24.3
15570	Н	41.86		5.22	47.08		74	54	-6.92
	Н								
				-					
10380	V	40.82	-6.6	1.80	42.62	()	68.2		-25.5
15570	V	39.5		5.22	44.72	J	74	54	-9.28
	V								
			11	n(HT40) CH	46: 5230MH	lz			
Frequency	Ant. Pol.	Peak reading	AV Correctio		Emission Level		Peak limit AV limit		Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10460	Н	41.63		1.85	43.48	X	68.2	4	-24.72
15690	KH)	39.44	<u> </u>	5.08	44.52	9)	74	54	-9.48
	Н								
10460	V	41.41		1.85	43.26		68.2		-24.94
15690	V	40.37		5.08	45.45	(74	54	-8.55
10000	V								-0.00

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		则硷沙	OGY				Repo	ort No.: TCT2	41016E01
			11a	c(VHT20) CH	136: 5180M	Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor		on Level	Peak limit (dBµV/m)		Margi (dB)
(11112)	11/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	,		(0D)
10360	Н	40.54		1.78	42.32		68.2		-25.88
15540	Н	39.43		5.21	44.64		74	54	-9.36
	Н				/	×			
	(\mathcal{O})		(, (, (, (, (, (, (, (, (, (, (, (, (, ()			-	(\mathcal{O})	
10360	V	38.97		1.78	40.75	/ <u></u>	68.2		-27.45
15540	V	39.62		5.21	44.83		74	54	-9.17
	V								
<u></u>		- 1.	11a	c(VHT20) CH	40: 5200M	Hz			
		Peak	AV	Correction					
Frequency (MHz)	Ant. Pol. H/V	reading	reading	Factor		on Level	Peak limit (dBµV/m)		Margii (dB)
~ /		(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)		、 I	~ /
10400	H	39.53		1.83	41.36)	68.2		-26.84
15600	Н	40.12		5.23	45.35		74	54	-8.65
	Н								
10400	V	39.66		1.83	41.49		68.2		-26.7
15600	V	39.45		5.23	44.68		74	54	-9.32
	V								
	<u> </u>		1	1ac(VHT20)	CH48:5240)			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor		on Level	Peak limit	AV limit	Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	37.48		1.85	39.33	(* p ·)	68.2		-28.87
15720	H	38.95		5.25	/		74	54	
					44.2				-9.8
	Н								
40400		20.0		4.05	40.05		<u> </u>		00.47
10480	V	38.2	<u>+</u> ,G	1.85	40.05	5)	68.2		-28.1
15720	V	39.45		5.25	44.7	/	74	54	-9.3
	V								
	-		•	1ac(VHT40)	CH38:5190		-	r	
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit		Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10380	Ĥ	40.23		1.80	42.03	<u> </u>	68.2	4	-26.17
15570	ΎΗ)	39.76	<u> </u>	5.22	44.98)	74	54	-9.02
	Н								
	V	38.34		1.80	40.14		68.2		-28.06
10380	v	00.04		1.00	40.14				
10380 15570	V	39.51		5.22	44.73		74	54	-9.27

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

	通 TESTING	CENTRE TECHNO			01140 5000		Repo	rt No.: TCT24	41016E01
			11	lac(VHT40)					
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading (dBµV)	Correction Factor	Emissi	on Level	Peak limit (dBµV/m)		Margir (dB)
(11112)	11/ V	(dBµV)		(dB/m)	Peak (dBµV/m)	AV (dBµV/m)			(ub)
10460	Н	38.62		1.85	40.47		68.2		-27.73
15690	Н	39.53		5.08	44.61		74	54	-9.39
	Н								
						<u>X</u>	1		
10460	V	39.41	÷ x O)	1.85	41.26)	68.2	<u> </u>	-26.94
15690	V	40.36		5.08	45.44		74	54	-8.56
	V								
				x(HE20) CH	36: 5180MF	lz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor	Emissi	on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margir (dB)
(11112)	1 1/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμν/π)	(ασμν/π)	(UD)
10360	H	39.18	$\pm c$	1.78	40.96		68.2		-27.24
15540	H	40.49		5.21	45.7	J	74	54	-8.3
	Н								
	T		<u>г г</u>						
10360	V	38.77		1.78	40.55	(68.2		-27.65
15540	V	40.64		5.21	45.85	<	74	54	-8.15
	V								
	1	Deal		(HE20) CH	40: 5200ivif	1Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor	Emissio		Peak limit (dBµV/m)	AV limit (dBuV/m)	Margin (dB)
((dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV	(abp ())	(0.2 µ 1))	(02)
10400	Н	39.73		1.83	41.56		68.2		-26.64
15600	Н	40.56		5.23	45.79		74	54	-8.21
	Н								
	1	1			r				
10400	V	39.02		1.83	40.85	<u> </u>	68.2		-27.35
15600	V	39.27	-+	5.23	44.5	())	74	54	-9.5
	V								
	-			1ax(HE20)	CH48:5240				
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor	Emissio			AV limit (dBµV/m)	Margi (dB)
(11112)	11/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(ασμν/π)	(ub)
10480	Н	38.18		1.85	40.03		68.2		-28.17
15720	H	39.64		5.25	44.89		74	54	-9.11
	Η		-KV		X	·)		<u> </u>	
			-						
10480	V	38.8		1.85	40.65		68.2		-27.5
15720	V	39.45		5.25	44.7	/	74	54	-9.3
	V)	/			

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ГС	通	则检测	则						
	TESTING (CENTRE TECHNOL					Repo	ort No.: TCT24	41016E013
			r	11ax(HE40) (CH38:5190			[
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor	Emissic		Peak limit (dBµV/m)		Margin (dB)
(11112)	11/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(abp v/m)		(UD)
10380	Н	40.46		1.80	42.26		68.2		-25.94
15570	Н	39.91		5.22	45.13		74	54	-8.87
	Н								
		-				X			
10380		38.59	- 1 20	1.80	40.39		68.2	$(\mathbf{x}\mathbf{G}^{\mathbf{a}})$	-27.81
15570	V	38.32		5.22	43.54		74	54	-10.46
	V								
				11ax(HE40) (CH46:5230				
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissi	on Level	Peak limit		Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10460	H	38.62		1.85	40.47		68.2		-27.73
15690	H	39.04		5.08	44.12	/	74	54	-9.88
	Н								
10460	V	39.46		1.85	41.31	(68.2		-26.89
15690	V	40.33		5.08	45.41		74	54	-8.59
	V								

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 40GHz.

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.

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	i Lotino (Керс		41010E013
			Ν	Iodulation Ty	ype: Band 3	3			
				11a CH149:	5745MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11490	Н	44.23		2.48	46.71		74	54	-7.29
17235	Н	37.24		6.50	43.74		68.2		-24.46
	(, H)		-		(, (5)		(, G)	
				/	l l				
11490	V	45.91		2.48	48.39		74	54	-5.61
17235	V	38.82		6.50	45.32		68.2		-22.88
	V				((<u> </u>		
				11a CH157:	5785MHz				
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)
11570	Н	43.38		2.42	45.8		74	54	-8.2
17355	Н	38.69		7.03	45.72		68.2		-22.48
<u> </u>	Н				·				
		<u> (0)</u>		- Ko)	($\langle 0 \rangle$		KO)
11570	V	43.53		2.42	45.95		74	54	-8.05
17355	V	39.31		7.03	46.34		68.2		-21.86
	V				(X			
				11a CH165:	5825MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	on Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11650	Н	43.78		2.41	46.19		74	54	-7.81
17475	Н	36.06		7.41	43.47		68.2		-24.73
	Н								
			(.G			ci i i	•		
11650	V	43.27		2.41	45.68	J	74	54	-8.32
17475	V	38.54		7.41	45.95		68.2		-22.25
	V								
			11r	(HT20) CH1	49: 5745M	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)
11490	K H	44.23	- RO	2.48	46.71	(74	54	-7.29
17235	Н	38.36		6.50	44.86		68.2		-23.34
	H								-23.34
		<u> </u>	L			I			<u></u>
11490	V	44.71		2.48	47.19		74	54	-6.81
17235	V	37.02		6.50	43.52		68.2		-24.68
	V								-24.00
	v								

TCT通测检测 TESTING CENTRE TECHNOLOGY

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	」 更え TESTING	则检测 CENTRE TECHNOL	.OGY				Repo	ort No.: TCT2	41016E0
			11r	n(HT20) CH1	57: 5785M	Hz			
_		Peak	AV	Correction					
Frequency (MHz)	Ant. Pol. H/V	reading	reading	Factor		on Level	Peak limit (dBµV/m)		Margi (dB)
()		(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	((p)	()
11570	Н	44.32		2.42	46.74		74	54	-7.26
17355	Н	39.95		7.03	46.98		68.2		-21.22
	Н				/				
	(2G)		(20)			3)		(20)	
11570	V	44.36		2.42	46.78		74	54	-7.22
17355	V	39.18		7.03	46.21		68.2		-21.99
<u></u>	V								
				n(HT20) CH1	65: 5825M	Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit		Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11650	H	45.36		2.41	47.77)	74	54	-6.23
17475	Н	37.23		7.41	44.64		68.2		-23.56
	Н								
11650	V	45.72		2.41	48.13		74	54	-5.87
17475	V	40.66		7.41	48.07		68.2		-20.13
	V								
			11r	n(HT40) CH1	51: 5755M	Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit		Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11510	Н	44.23		2.47	46.7	(674	54	-7.3
17265	H	37.46		6.62	44.08		68.2		-24.12
	Н								
						-			
11510	V	44.79		2.47	47.26		74	54	-6.74
17265	V	38.08		6.62	44.7	J	68.2		-23.5
	V								
			11r	n(HT40) CH1	59: 5795M	Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor		on Level	Peak limit		Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11590	H	44.48		2.40	46.88	· · · ·	74	54	-7.12
17385	H H	38.86	<u>k</u> o	7.15	46.01	<u>)</u>	68.2		-22.19
	Н								
				1	r	1			
11590	V	44.03		2.40	46.43		74	54	-7.57
17385	V	37.74		7.15	44.89		68.2		-23.31
	V								

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		则检测 CENTRE TECHNOL	.OGY				Repo	ort No.: TCT2	41016E01
			11ac	:(VHT20) CH	149: 5745	MHz			
Frequency	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor		on Level	Peak limit		Margii
(MHz)	Π/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11490	Н	44.72		2.48	47.2		74	54	-6.8
17235	Н	37.34		6.50	43.84		68.2		-24.36
	Ŧ								
	(20)		(2G)			5)		(\mathcal{G})	
11490		44.81		2.48	47.29	ノ <u></u>	74	54	-6.71
17235	V	38.12		6.50	44.62		68.2		-23.58
	V								
			11ac	(VHT20) CH	157: 5785	MHz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margii
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11570	ΎΗ/	43.83		2.42	46.25	J	74	54	-7.75
17355	Н	36.52		7.03	43.55		68.2		-24.65
	Н								
11570	V	43.41		2.42	45.83		74	54	-8.17
17355	V	38.96		7.03	45.99		68.2		-22.21
	V								
			11ac	(VHT20) CH	165: 5825	ИHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	on Level AV (dBµV/m)	Peak limit (dBµV/m)		Margii (dB)
11650	н	44.98		2.41	47.39	(74	54	-6.61
17475	H	38.85		7.41	46.26		68.2		-21.94
	H								
11650	V	44.71		2.41	47.12		74	54	-6.88
17475	V	40.24		7.41	47.65	2	68.2		-20.55
	V								
	•			:(VHT40) CH	151 5755				
Frequency	Ant. Pol.	Peak reading	AV	Correction Factor		on Level	Peak limit	AV limit	Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11510	H	44.79		2.47	47.26		74	54	-6.74
17265	K H	37.62	<u> </u>	6.62	44.24	9)	68.2	$(\underline{\mathbf{G}})$	-23.96
	Н								
11510	V	43.95		2.47	46.42		74	54	-7.58
17265	V	36.13		6.62	42.75		68.2		-25.45
	V								<u> </u>

		则 松)	.OGY				Rep	ort No.: TCT2	41016E0
				CHT40) CH	1159: 57951	MHZ	-		
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor		on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margii (dB)
(11112)	11/ 0	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(abµ v/m)	(abp v/m)	(02)
11590	Н	43.83		2.40	46.23		74	54	-7.77
17385	Н	37.12		7.15	44.27		68.2		-23.93
	Н								
	(2G)		(26)			51)		(\mathcal{G})	
11590	V	42.45		2.40	44.85		74	54	-9.15
17385	V	38.94		7.15	46.09		68.2		-22.1
<u></u>	V								
			11a	x(HE20) CH	149: 5745N	1Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11490	ΎΗ/	45.69		2.48	48.17	J	74	54	-5.83
17235	Н	37.96		6.50	44.46		68.2		-23.74
	Н								
				G					
11490	V	45.54		2.48	48.02	1	74	54	-5.98
17235	V	38.41		6.50	44.91		68.2		-23.29
	V								
			11a	x(HE20) CH	157: 5785N	1Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor		on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margi (dB)
()		(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	((()
11570	Н	43.84		2.42	46.26	(74	54	-7.74
17355	Н	36.51		7.03	43.54		68.2		-24.66
	Н								
	<u></u>					-			
11570	V	44.08	Ú +	2.42	46.5	<u>()</u>	74	54	-7.5
17355	V	38.95		7.03	45.98		68.2		-22.22
	V								
			11a	x(HE20) CH ⁻	165: 5825N	1Hz			
Frequency	Ant. Pol.	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit	AV limit	Margi
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11650	H	43.03		2.41	45.44		74	54	-8.56
17475	KH)	39.76	<u>K</u>	7.41	47.17	9)	68.2	<u>ko</u>)	-21.03
	Н								
11650	V	43.68		2.41	46.09		74	54	-7.91
17475	V	39.55		7.41	46.96	(68.2		-21.24
51713	V			1.71	-0.00	1	-00.Z		41.44

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	通	则检测	则						
	TESTING (CENTRE TECHNOI					Rep	ort No.: TCT2	41016E01
			11a	x(HE40) CH	151: 5755N	1Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor		on Level	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	11/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(ασμν/π)	(ubµ v/m)	(UD)
11510	Н	43.25		2.47	45.72		74	54	-8.28
17265	Н	37.12		6.62	43.74		68.2		-24.46
	Н								
						<u>X</u>	-		
11510	V	43.7	-4,0	2.47	46.17	5)	74	54	-7.83
17265	V	36.54		6.62	43.16		68.2		-25.04
	V								
			11a	x(HE40) CH	159: 5795N	1Hz			
Frequency	Ant. Pol. H/V	Peak reading	AV reading	Correction Factor	Emissio	on Level	Peak limit		Margin
(MHz)	Π/ V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11590	Ĥ	44.68	-+	2.40	47.08		74	54	-6.92
17385	H	37.16		7.15	44.31	J	68.2	· · · · ·	-23.89
	Н								
11590	V	43.54		2.40	45.94		74	54	-8.06
17385	V	38.02		7.15	45.17		68.2		-23.03
	V								

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 40GHz.

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.





5.9. Frequency Stability Measurement

5.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055					
Test Method:	ANSI C63.10: 2013					
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal suppl voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at temperature of 20 degrees C.					
	Temperature Chamber					
Test Setup:	Spectrum Analyzer EUT					
	AC/DC Power supply The EUT was placed inside the environmental tes					
Test Procedure:	chamber and powered by nominal AC/DC voltage. In Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The suppli- voltage was then adjusted on the EUT from 85% to 115% and the frequency record.					
Test Result:	PASS					
Remark:	Pre-scan was performed at all models(11a,11n,11ac, 11ax), the worst case (11ax) was found and test data was shown in this report.					

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Test plots as follows:

Test mode:	802.11ax(HE20) Freq	uency(MHz):	5180
Temperature (°C)	Voltage(V _{AC})	Measurement	Delta	Result
	voltage(vac)	Frequency(MHz	z) Frequency(F	lz)
45		5180.08	80000	PASS
35		5180.08	80000	PASS
25	120V	5180.08	80000	PASS
15	1200	5180.08	80000	PASS
5		5180.06	60000	PASS
0		5180.06	60000	PASS
	102V	5180.08	80000	PASS
25	120V	5180.06	60000	PASS
	138V	5180.08	80000	PASS

Test mode:	802.11ax(HE20)	Freque	ency(MHz):		5200	
Temperature (°C)	Voltage(V _{AC})	Measurement		Delta		Result	
	Voltago(VAC)	Frequenc	Frequency(MHz)		(Hz)	Result	
45		5200.08		80000		PASS	
35		5200.08		80000		PASS	
25	120V	5200.10		100000		PASS	
15	1200	5200	.08	80000	80000		
5		5200	5200.08			PASS	
0	(c)	5200	.08	80000		PASS	
	102V	5200	.08	80000		PASS	
25	120V	5200	.08	80000		PASS	
	138V		.08	80000		PASS	<u></u>
(G)	(\mathbf{C})			(.C			G)

Test mode:	802.11ax(HE20) Freque	ency(MHz):	5240
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45 (20)		5240.08	6 80000	PASS
35		5240.08	80000	PASS
25	120V	5240.08	80000	PASS
15	1200	5240.08	80000	PASS
5		5240.08	80000	PASS
0		5240.08	80000	PASS
	102V	5240.08	80000	PASS
25	120V	5240.08	80000	PASS
	138V	5240.10	100000	PASS



Test mode:	802.11ax	(HE20)	Frequency(MHz):		5745		
Temperature (°C)	Voltage(V _{AC})	Measu	rement	Delta	Delta		
Temperature (C)	voltage(vac)	Frequen	icy(MHz)	Frequency(Hz)		Result	
45		574	5.02	20000		PASS	
35		5745		0		PASS	
25	120V	574	5.02	20000		PASS	
15	1200	574	5.02	20000		PASS	
5 ()		574	45.02 20000		PASS		
0		574	5.02	20000		PASS	
	102V	574	5.02	20000		PASS	

5745.02

5745.02

20000

20000

Test mode:	Test mode: 802.11ax(H		HE20) Frequency(MHz):			5785	
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)		Delta Frequency(Hz)		Result	
45		5785	5.02	20000		PASS	
35		5785.02		20000		PASS	
25	120V	5785.02		20000		PASS	
15	1200	5785.02		20000	7	PASS	
5		5785	5.02	20000		PASS	
0		5785.02		20000		PASS	
(\mathbf{G})	102V	5785	5.02	20000		PASS	
25	120V	578	85	0		PASS	
	138V	5785	5.02	20000		PASS	

Test mode:	802.11ax(HE20) Freque	ency(MHz):	5825
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5825	0	PASS
35		5825.02	20000	PASS
25	120V	5825.02	5825.02 20000	
15	1200	5825.02	20000	PASS
5		5825.02	5825.02 20000	
0		5825.02	20000	PASS
	102V	5825.02	20000	PASS
25	120V	5825.04	40000	PASS
	138V	5825.02	20000	PASS

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PASS

PASS



120V

138V

25



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Test mode:	802.11ax	(HE40) Freque		ency(MHz):	5190
Temperature (°C)	Voltage(V _{AC})	Measu	rement	Delta	Result
	vollage(vac)	Frequen	cy(MHz)	Frequency(F	Hz)
45		5190	0.08	80000	PASS
35		5190	0.04	40000	PASS
25	120V	5190	5190.08 80000		PASS
15	1200	5190	0.04	40000	PASS
5		5190	0.08	60008	PASS
0		5190	0.08	80000	PASS
	102V	5190	3.08	80000	PASS
25	120V	519	0.08	80000	PASS
(<u>k</u> G`)	138V	5190	0.04	40000	PASS

Test mode:	802.11ax(HE40) Freque		ency(MHz):		5230
Temperature (°C)	rature (°C) Voltage(V _{AC})		Measurement Frequency(MHz)		Hz)	Result
45			0.08	80000		PASS
35		523	0.08	80000		PASS
25	120V	5230.08		80000		PASS
15	1200	523	0.12	120000		PASS
5		523	80.0	80000		PASS
0		523	0.08	80000		PASS
(\mathbf{G})	102V	523	0.08	80000		PASS
25	120V 🔍	523	0.04	40000		PASS
	138V	523	0.08	80000		PASS

Test mode:	802.11ax(HE40) Frequ	ency(MHz):	5755
Temperature (°C)	Voltage(V _{AC})	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45		5755	0	PASS
35		5755.04	40000	PASS
25	120V	5755.04	40000	PASS
15	1200	5755.04	40000	PASS
5		5755	0	PASS
0		5755	0	PASS
	102V	5755	0	PASS
25	120V	5755	0	PASS
	138V	5755	0	PASS

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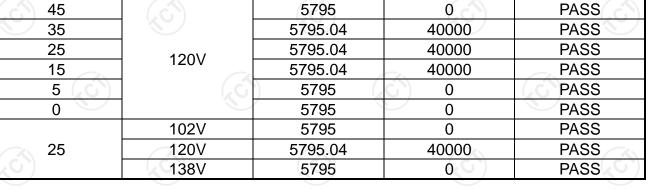












Measurement

Frequency(MHz)

Frequency(MHz):

Delta

Frequency(Hz)

Voltage(V_{AC})

802.11ax(HE40)

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5795

Result



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Test mode:

Temperature (°C)















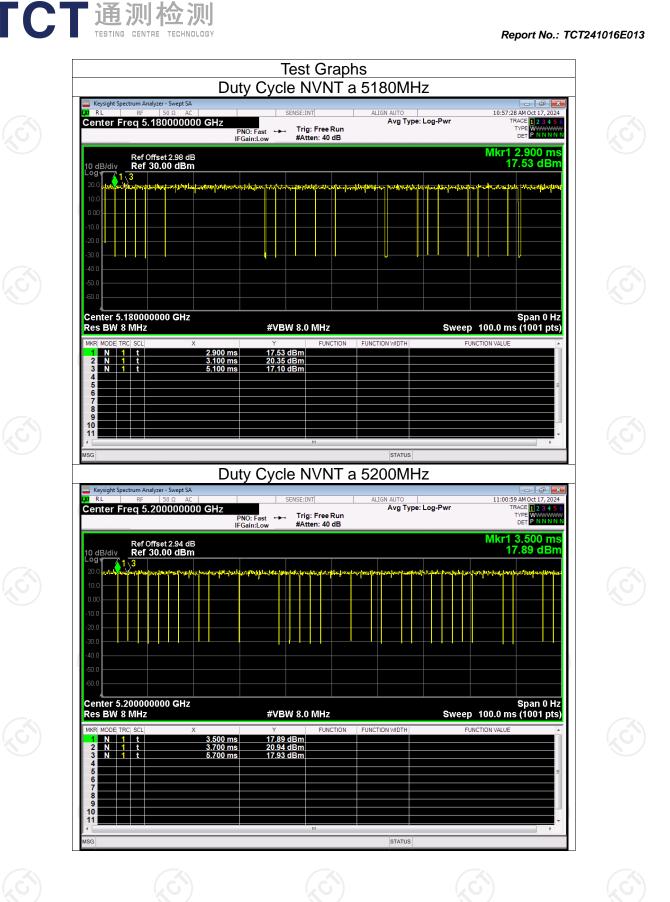
Report No.: TCT241016E013



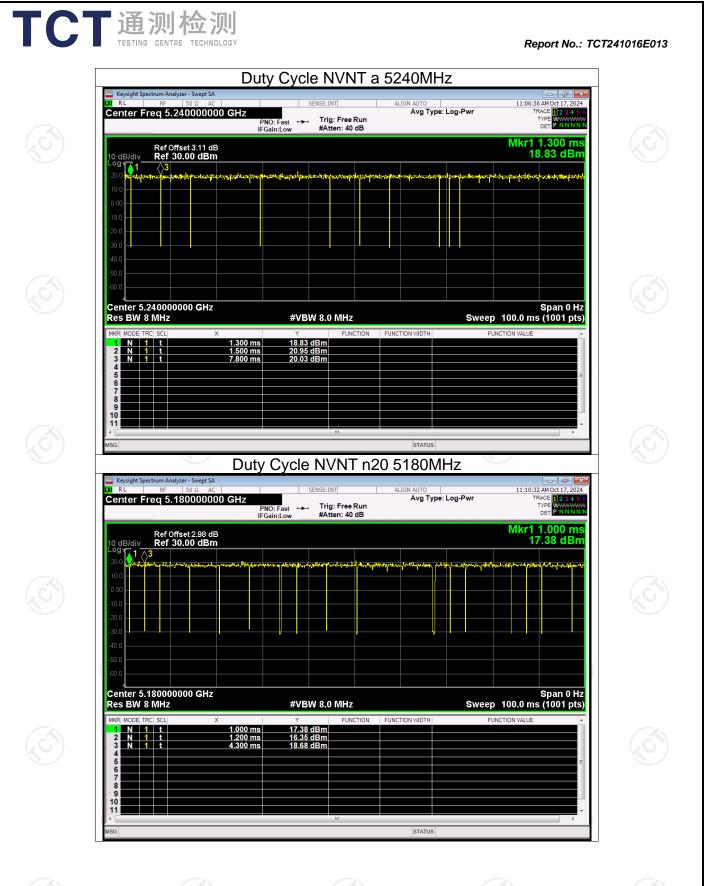
Appendix A:	Test Result of	Conducted Test
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Condition	Mode	Frequency	Duty Cycle	Correction Factor	ć
Condition	wode	(MHz)	(%)	(dB)	
NVNT	а	5180	96.9	0.14	
NVNT	а	5200	96.9	0.14	
NVNT	а	5240	99	0	
NVNT	n20	5180	97.3	0.12	
NVNT	n20	5200	99.2	0	
NVNT	n20	5240	98.1	0	
NVNT	n40	5190	98.3	0	6
NVNT	n40	5230	98.5	0	
NVNT	ac20	5180	97.7	0.10	
NVNT	ac20	5200	99.3	0	
NVNT	ac20	5240	98	0	
NVNT	ac40	5190	97.8	0.10	
NVNT	ac40	5230	99.6	0	
NVNT	ax20	5180	96.9	0.14	
NVNT	ax20	5200	98.9	0	
NVNT	ax20	5240	96.2	0.17	8
NVNT	ax40	5190	97.6	0.11	
NVNT	ax40	5230	97.1	0.13	
NVNT	а	5745	94.6	0.24	
NVNT	а	5785	99.2	0	
NVNT	а	5825	98.4	0	
NVNT	n20	5745	97.8	0.1	
NVNT	n20	5785	98.4	0	
NVNT	n20	5825	99.4	0	180
NVNT	n40	5755	99.1	0	
NVNT	n40	5795	99.1	0	
NVNT	ac20	5745	98.9	0	
NVNT	ac20	5785	99.4	0	
NVNT	ac20	5825	98.8	0	
NVNT	ac40	5755	98.9	0	
NVNT	ac40	5795	98.7	0	
NVNT	ax20	5745	97.1	0.13	3
NVNT	ax20	5785	98.9	0	
NVNT	ax20	5825	98.6	0	
NVNT	ax40	5755	99.4	0	
NVNT	ax40	5795	98.2	0	

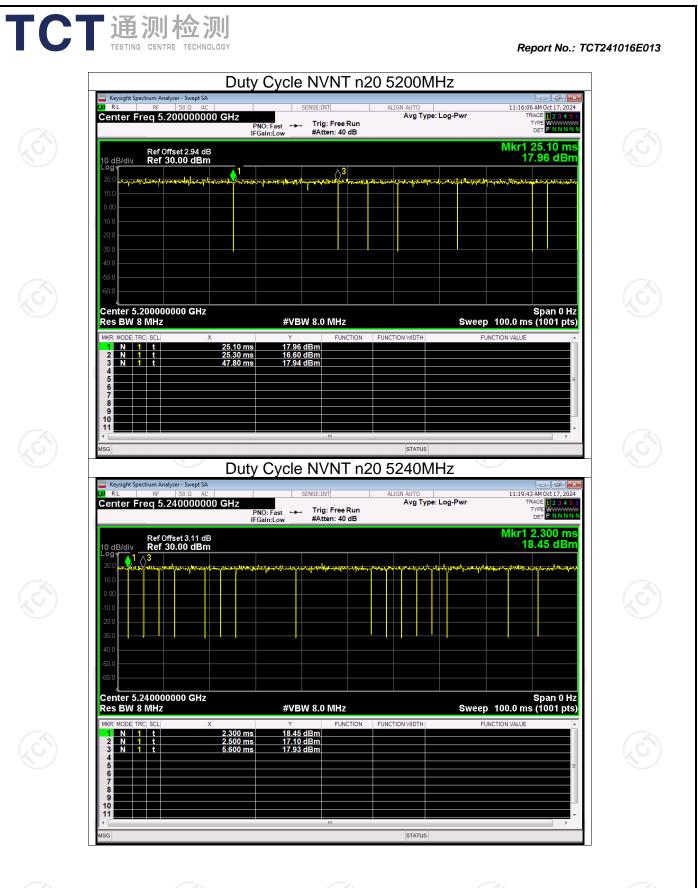
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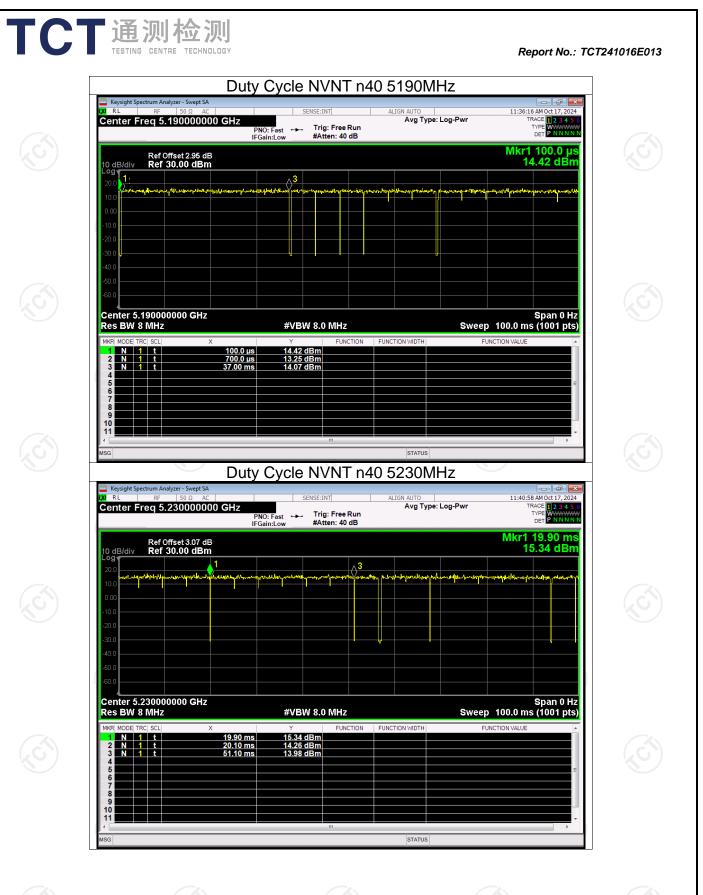
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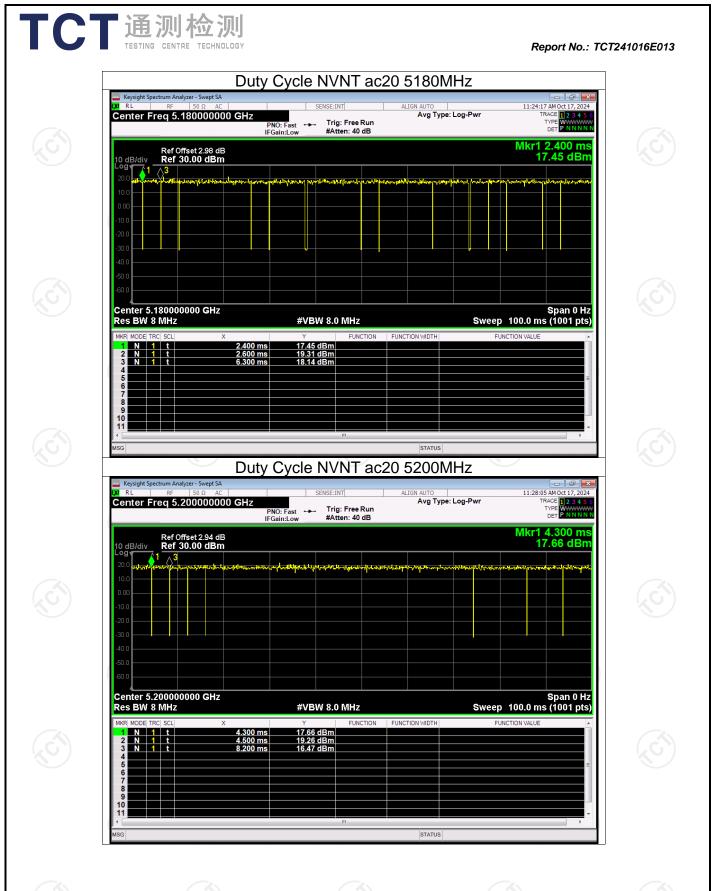
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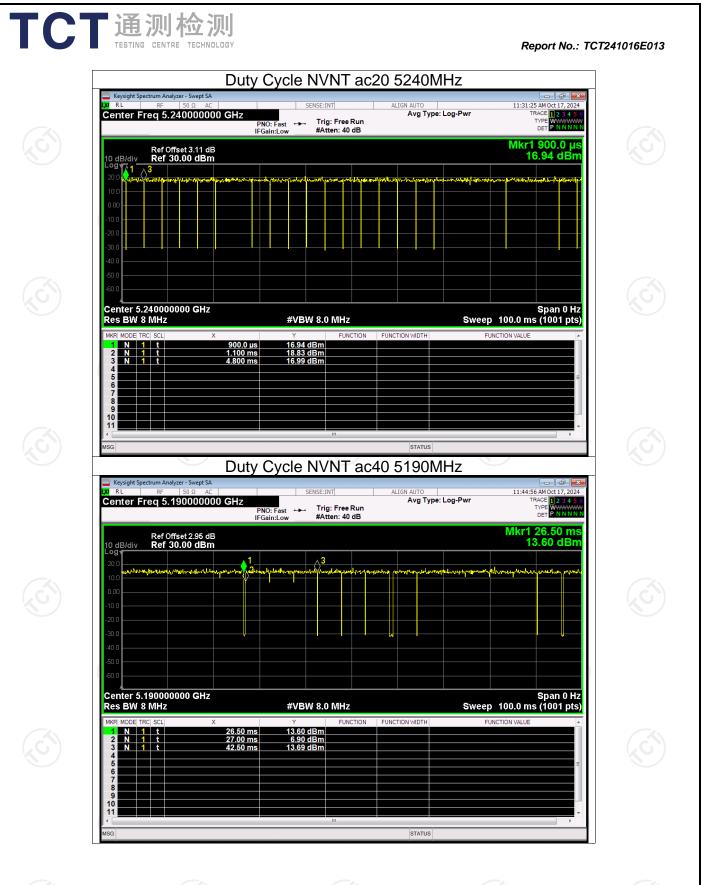


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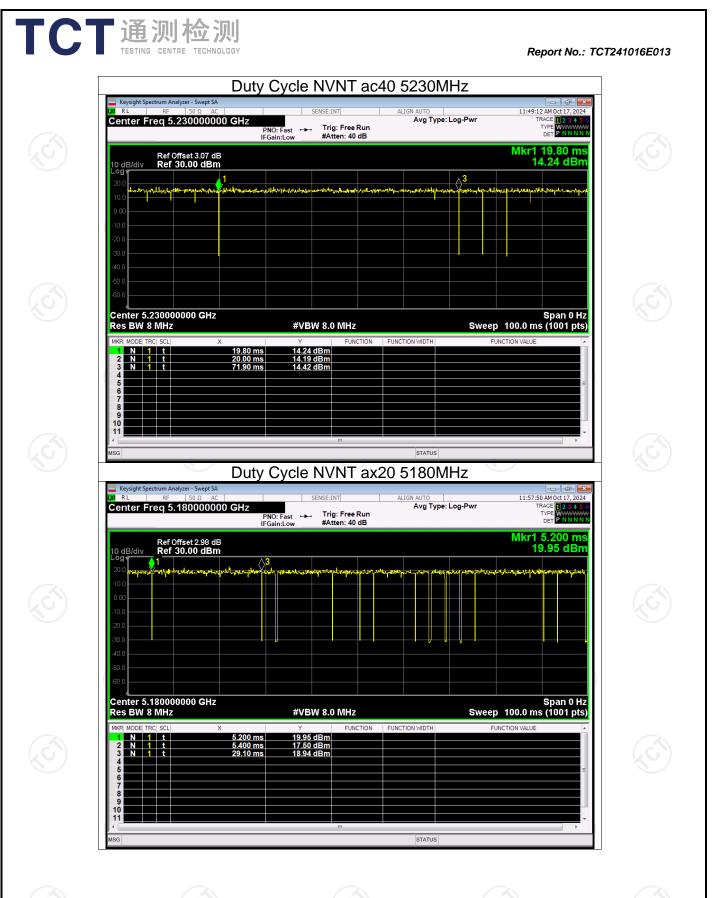


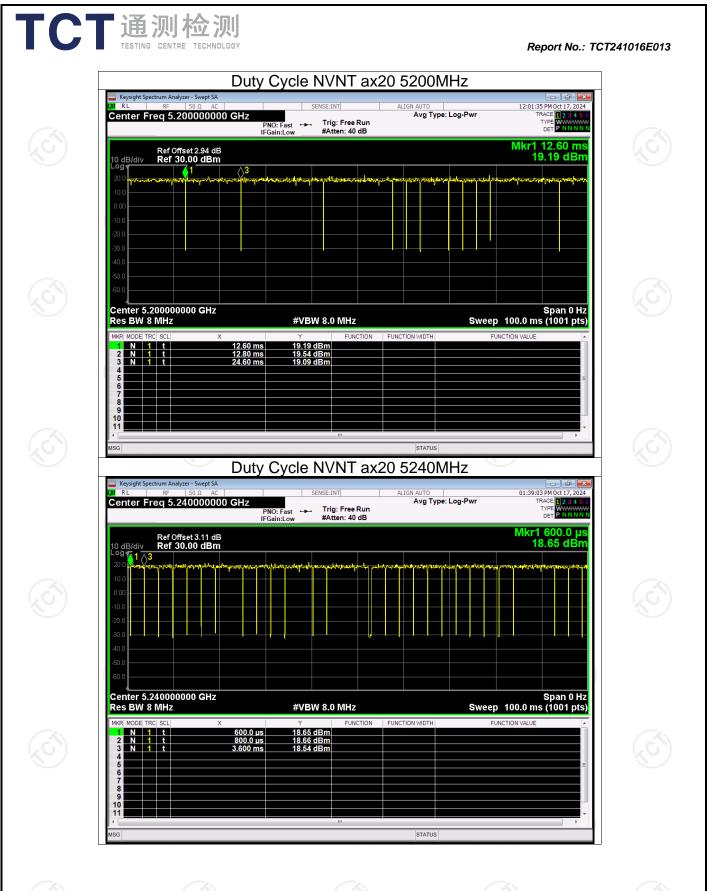
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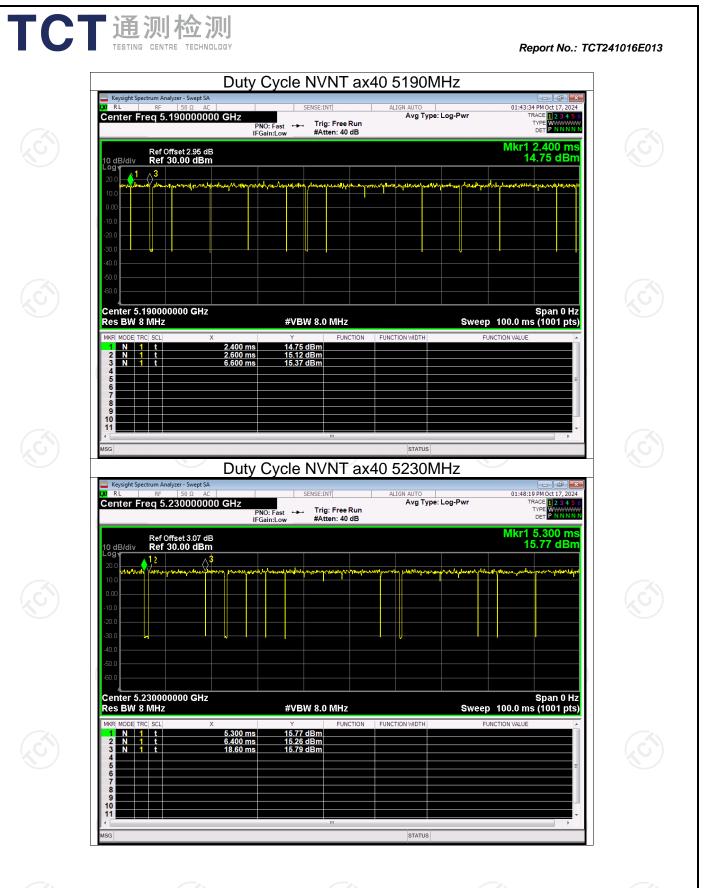


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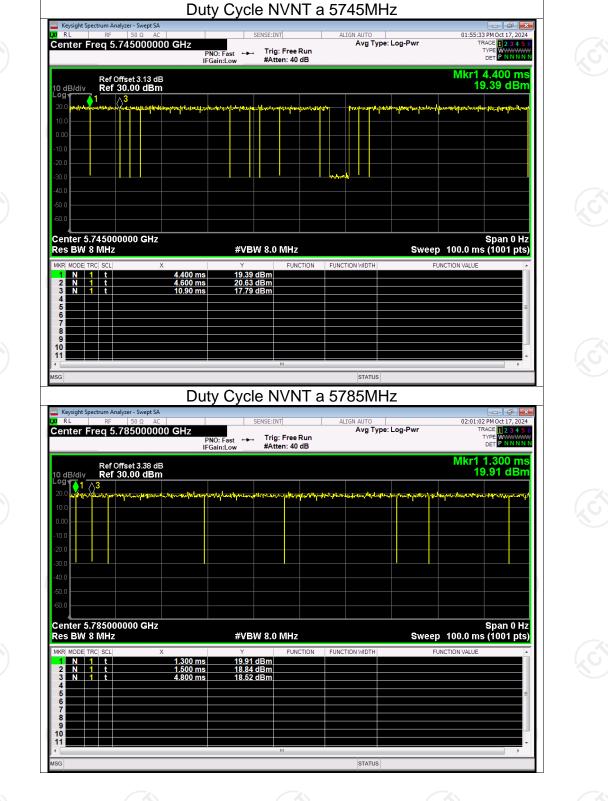








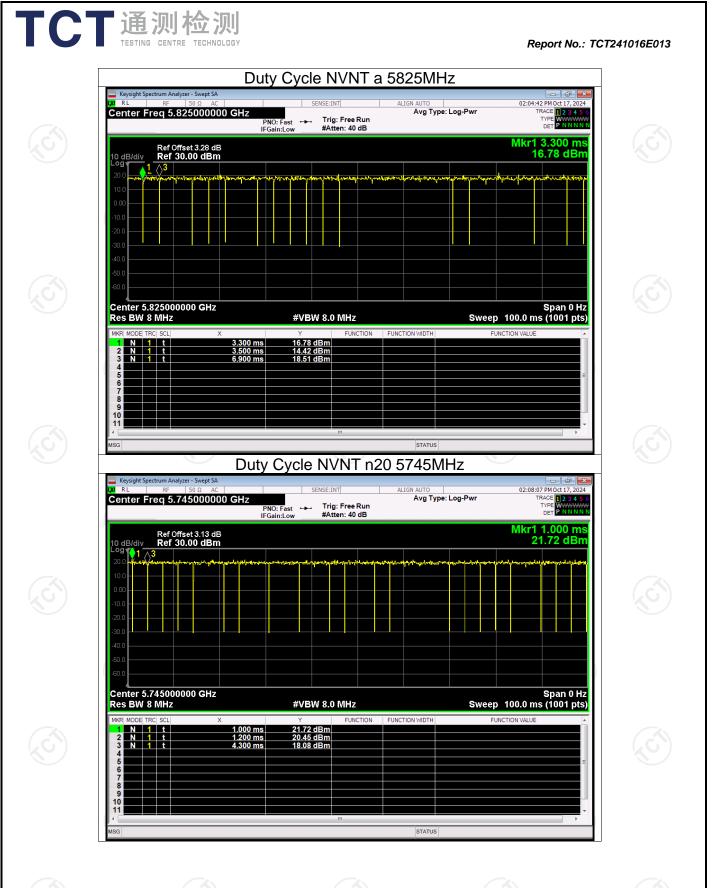
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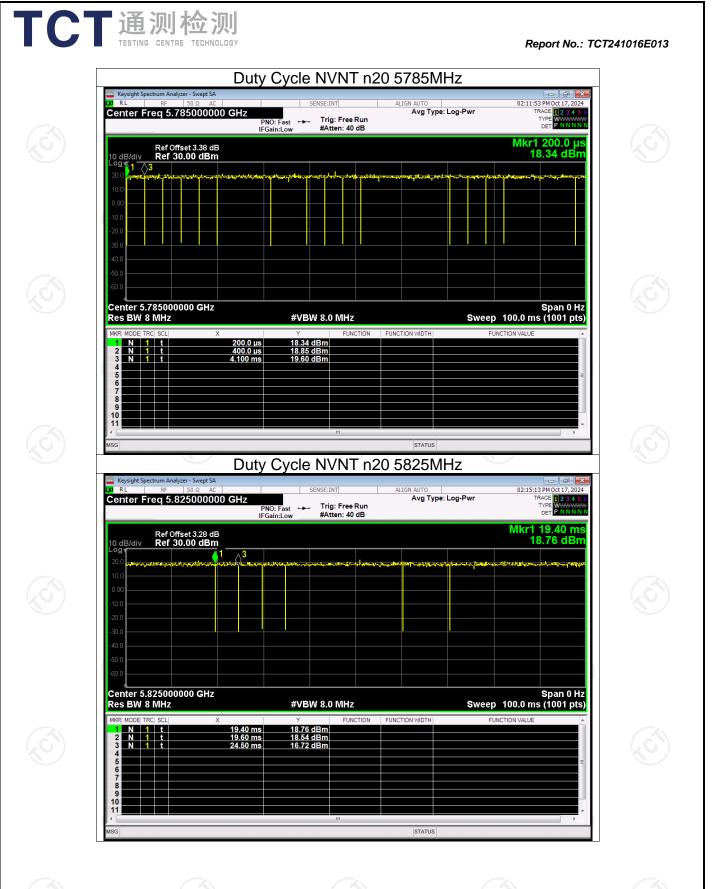
Test Graphs

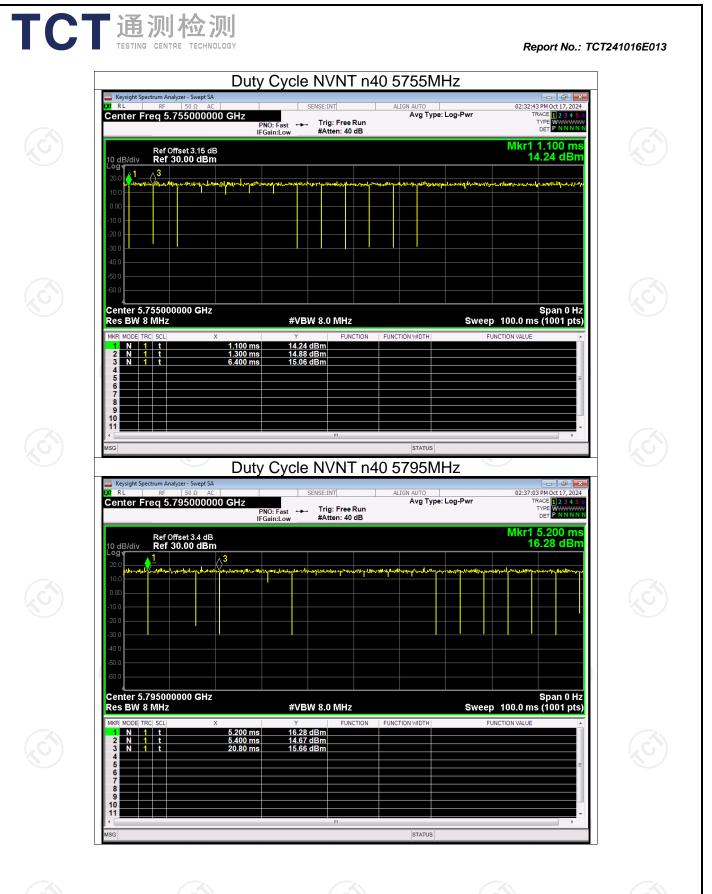
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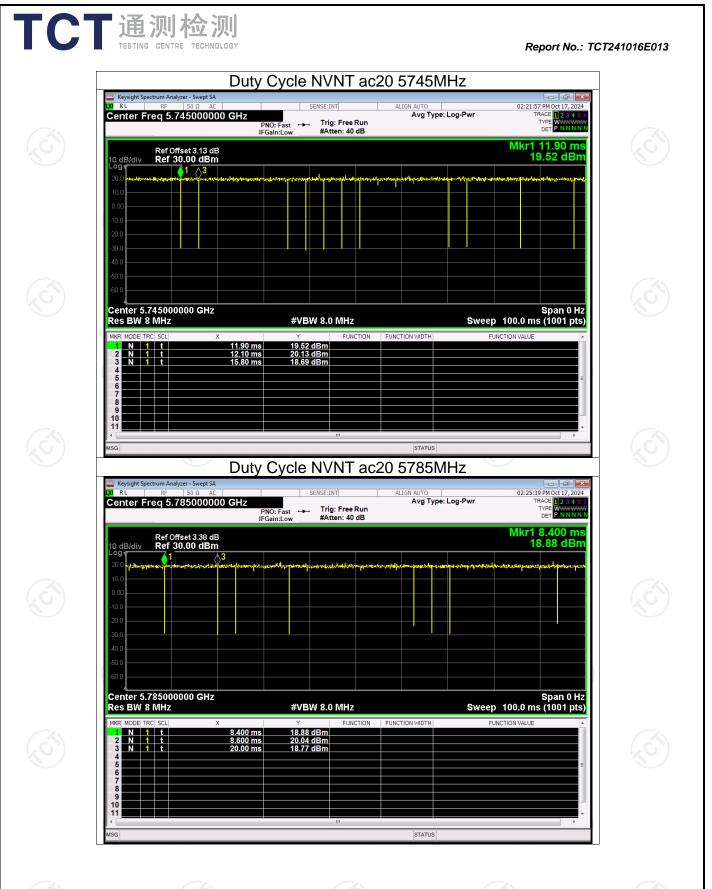


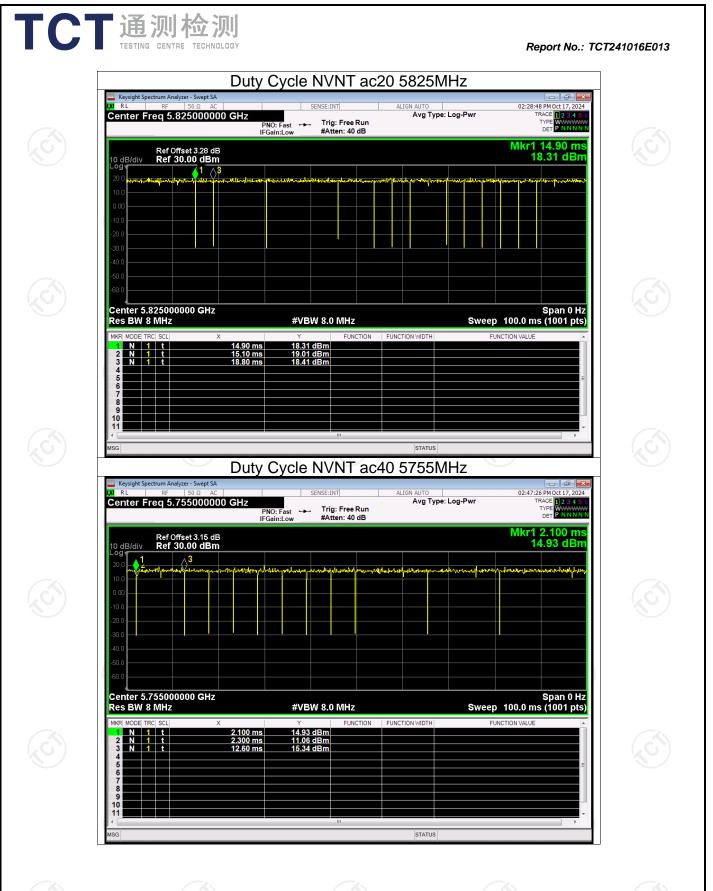
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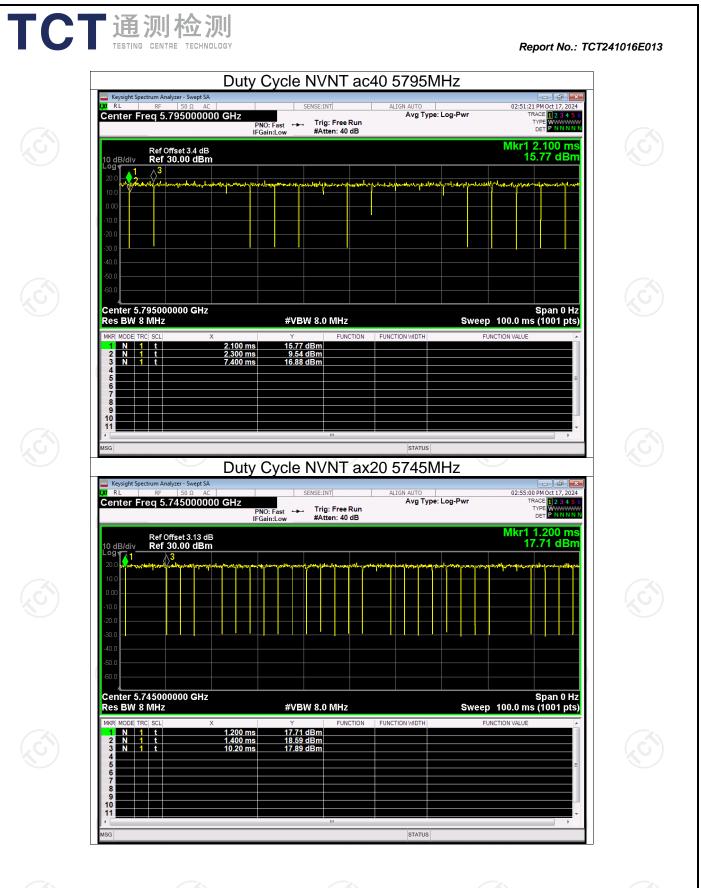
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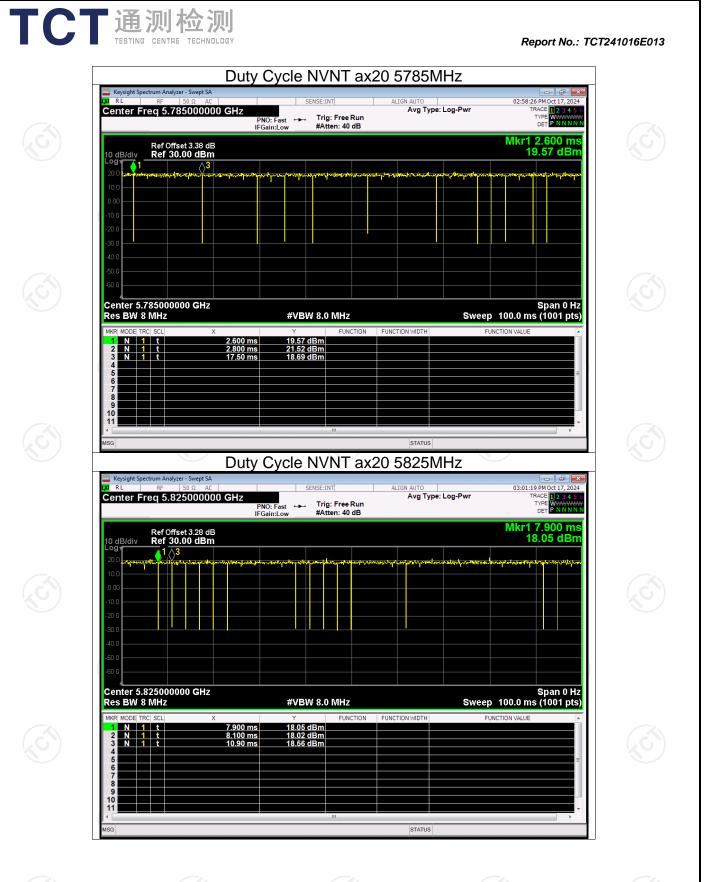




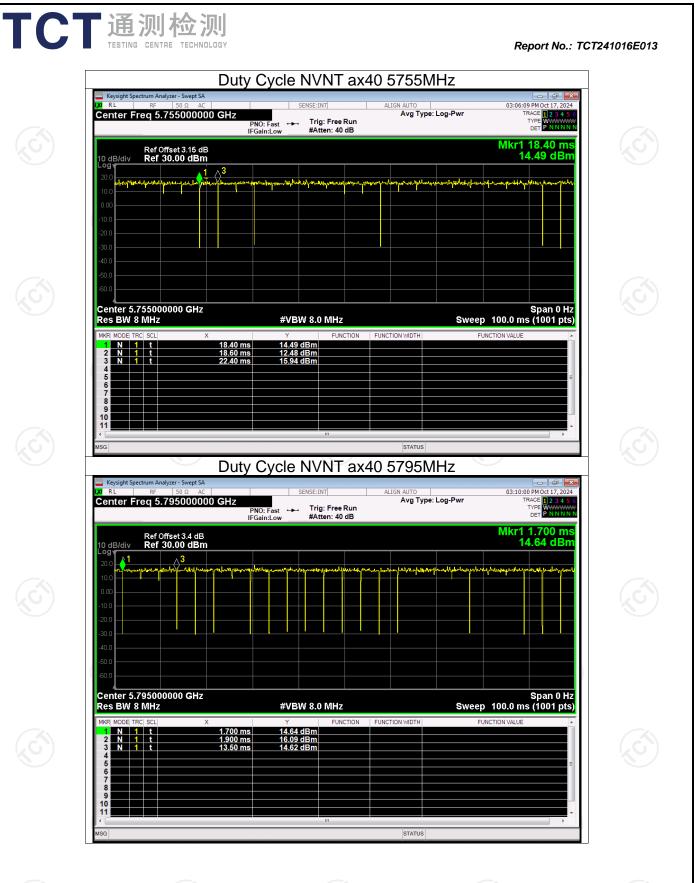
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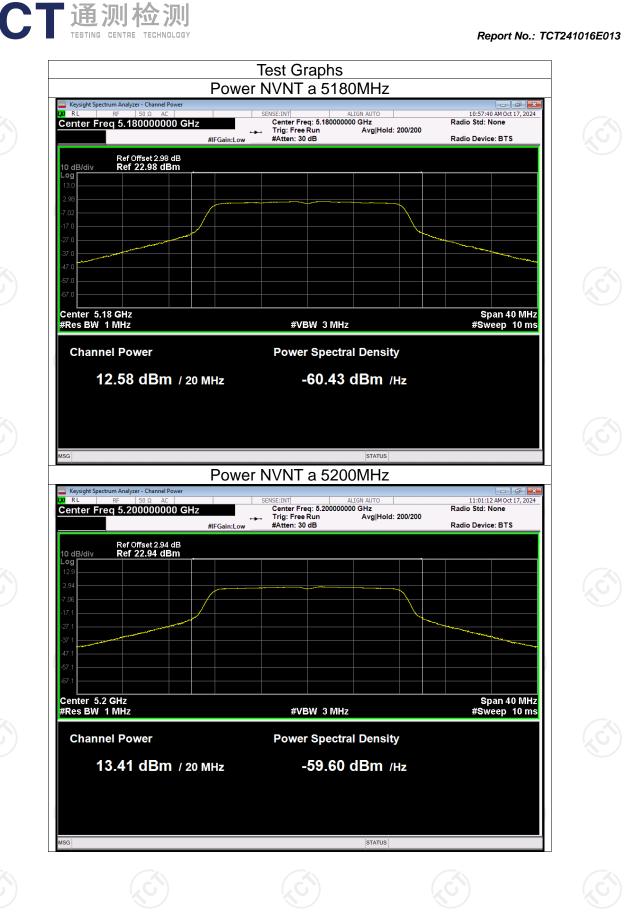




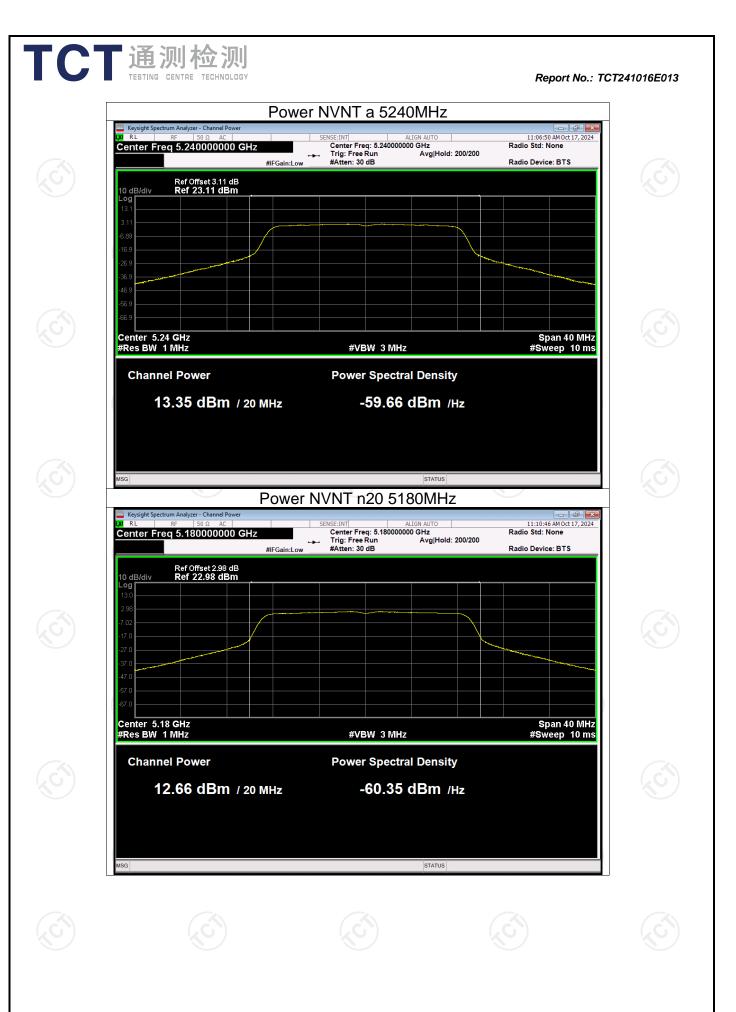
Condition	Mode	Frequency (MHz)	um Conducted C Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5180	12.58	0.14	12.72	24	Pass
NVNT	а	5200	13.41	0.14	13.55	24	Pass
NVNT	а	5240	13.35	0	13.35	24	Pass
NVNT	n20	5180	12.66	0.12	12.78	24	Pass
NVNT	n20	5200	13.12	0	13.12	24	Pass
NVNT	n20	5240	13.22	0	13.22	24	Pass
NVNT	n40	5190	12.71	0	12.71	24	Pass
NVNT	n40	5230	13.03	0	13.03	24	Pass
NVNT	ac20	5180	12.60	0.10	12.70	24	Pass
NVNT	ac20	5200	12.95	0	12.95	24	Pass
NVNT	ac20	5240	13.05	0	13.05	24	Pass
NVNT	ac40	5190	12.55	0.10	12.65	24	Pass
NVNT	ac40	5230	12.98	0	12.98	24	Pass
NVNT	ax20	5180	13.44	0.14	13.58	24	Pass
NVNT	ax20	5200	13.84	0	13.84	24	Pass
NVNT	ax20	5240	13.75	0.17	13.92	24	Pass
NVNT	ax40	5190	13.39	0.11	13.50	24	Pass
NVNT	ax40	5230	13.72	0.13	13.85	24	Pass
NVNT	a	5745	13.83	0.24	14.07	30	Pass
NVNT	a	5785	13.46	0	13.46	30	Pass
NVNT	a	5825	12.72	0	12.72	30	Pass
NVNT	n20	5745	14.87	0.10	14.97	30	Pass
NVNT	n20	5785	14.49	0	14.49	30	Pass
NVNT	n20	5825	13.83	0	13.83	30	Pass
NVNT	n40	5755	14.57	0	14.57	30	Pass
NVNT	n40	5795	14.31	0	14.31	30	Pass
NVNT	ac20	5745	14.83	0	14.83	30	Pass
NVNT	ac20	5785	14.50	0	14.50	30	Pass
NVNT	ac20	5825	13.78	0	13.78	30	Pass
NVNT	ac40	5755	14.72	0	14.72	30	Pass
NVNT	ac40	5795	14.36	0	14.36	30	Pass
NVNT	ax20	5745	14.70	0.13	14.83	30	Pass
NVNT	ax20	5785	14.51	0.15	14.51	30	Pass
NVNT	ax20	5825	13.92	0	13.92	30	Pass
NVNT	ax40	5755	14.50	0	14.50	30	Pass
NVNT	ax40	5795	14.23	0	14.23	30	Pass
		0100	9		17.20		1 000

Maximum Conducted Output Power

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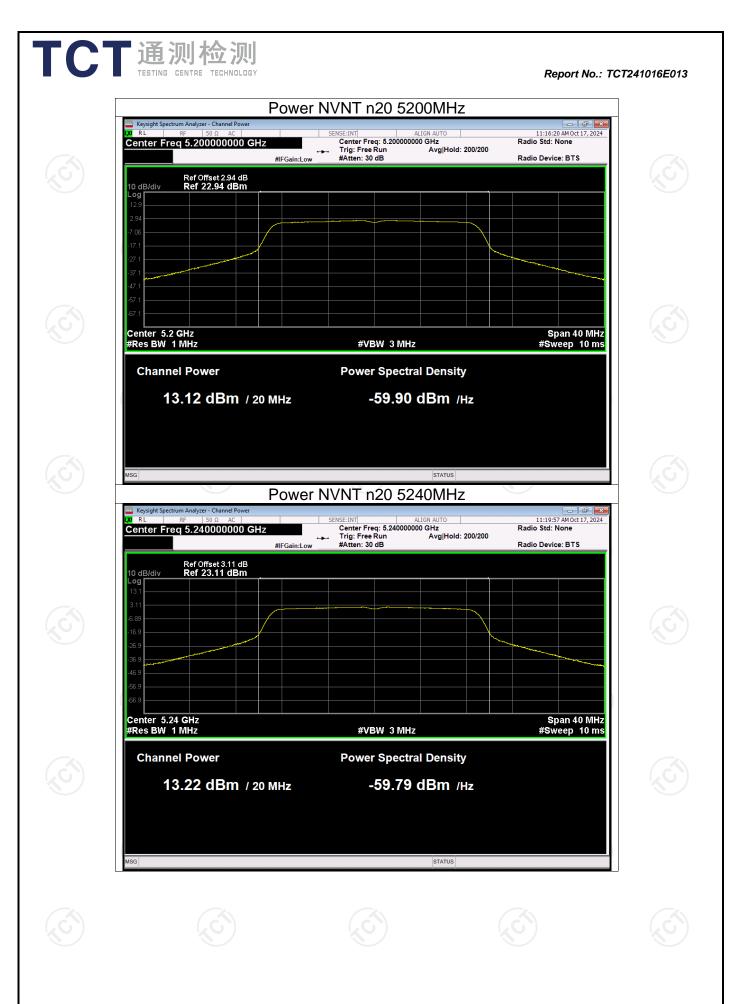


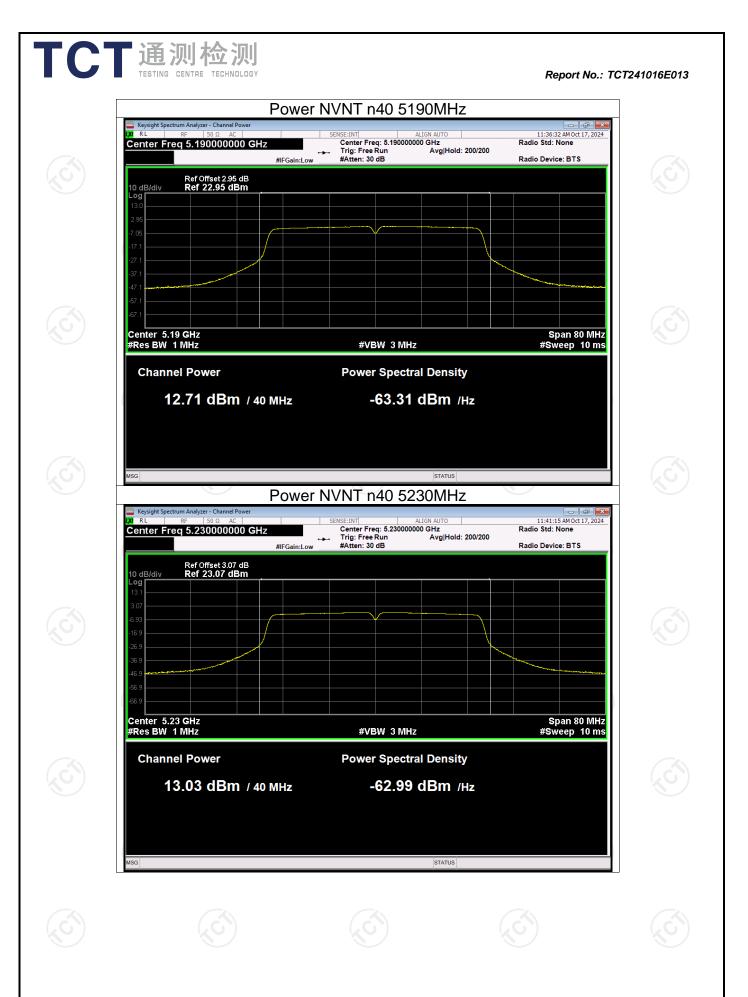
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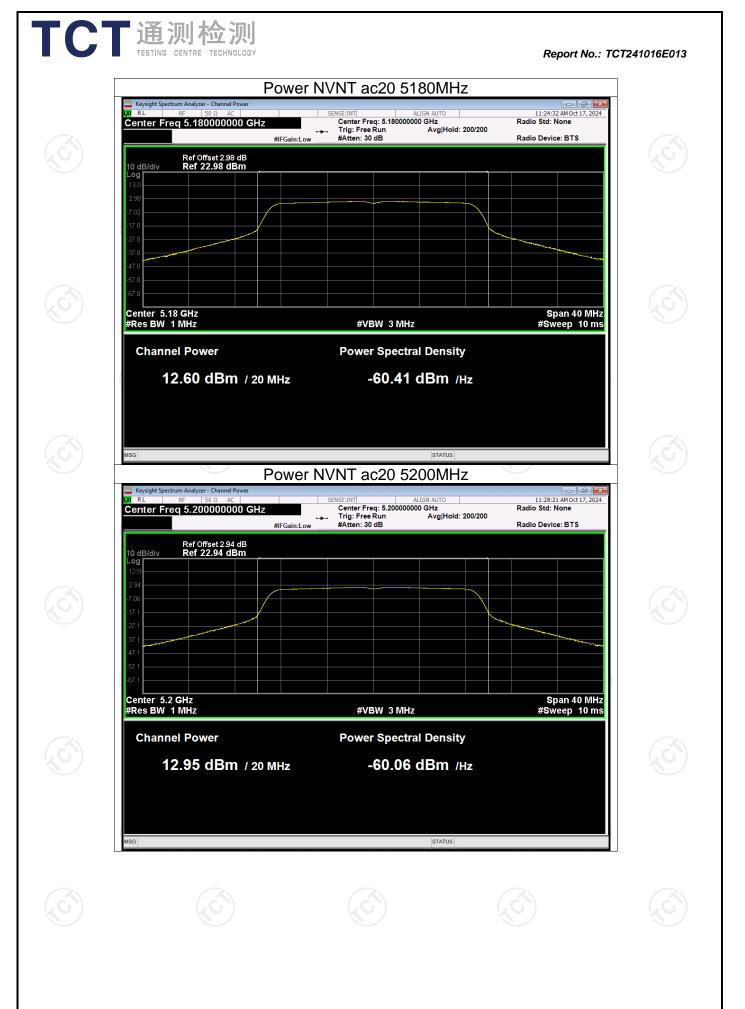
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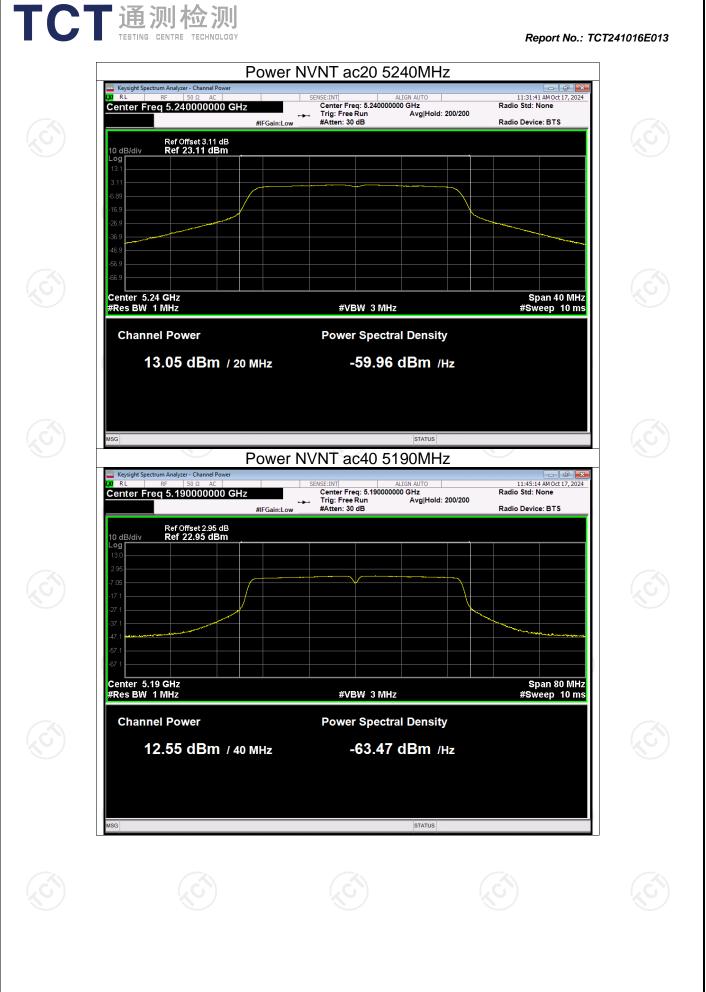




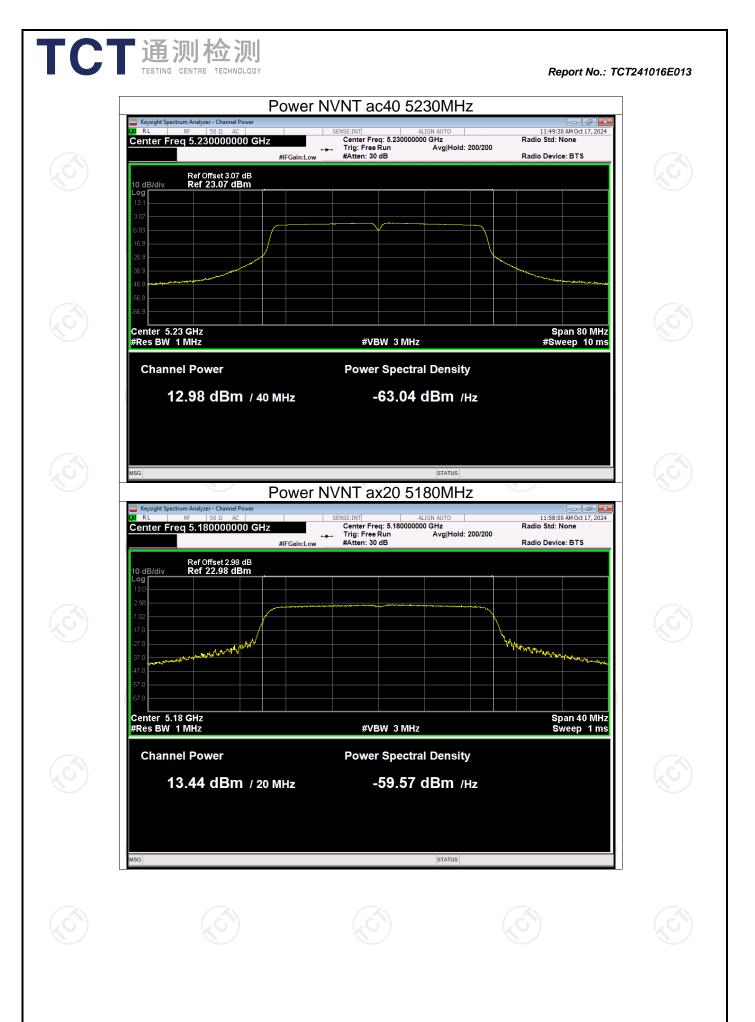
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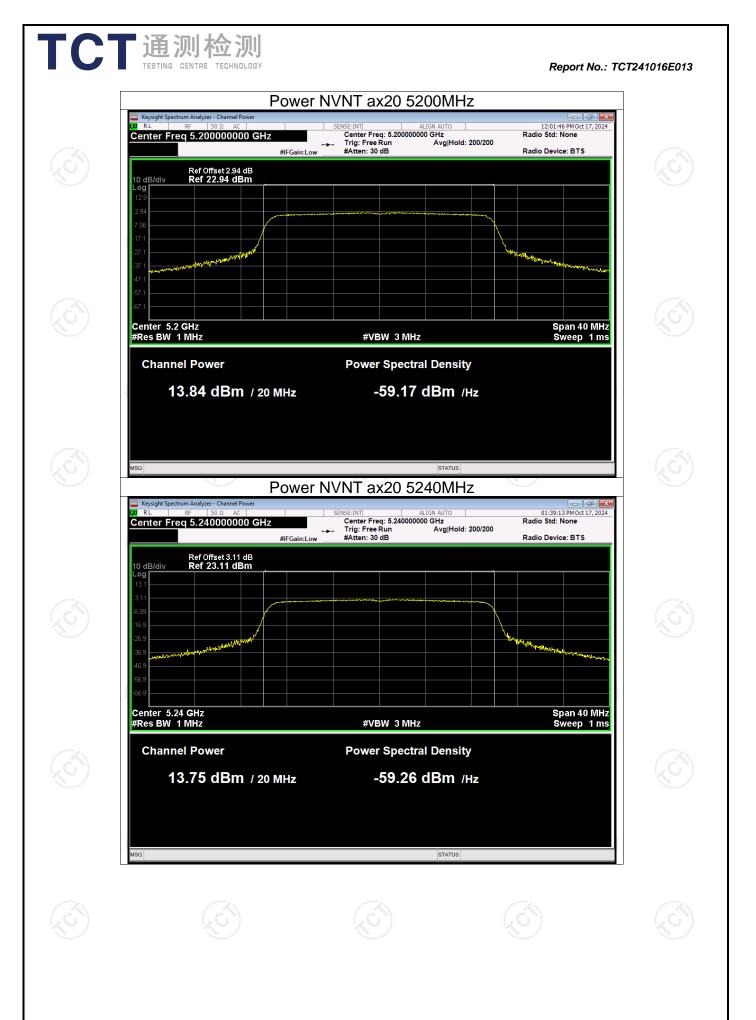
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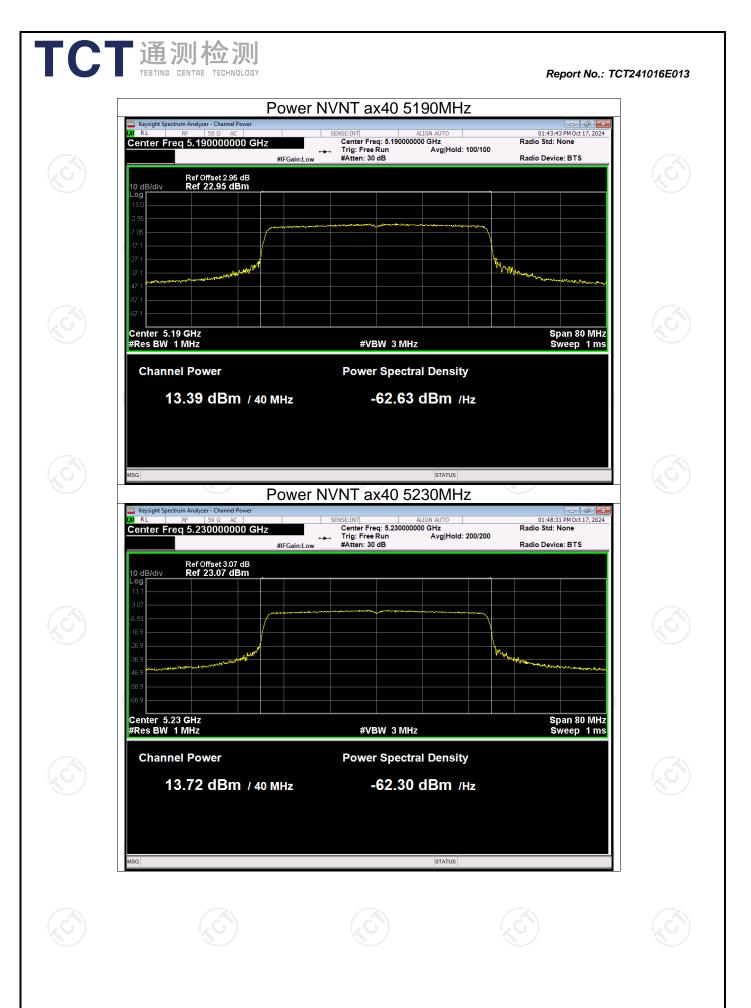
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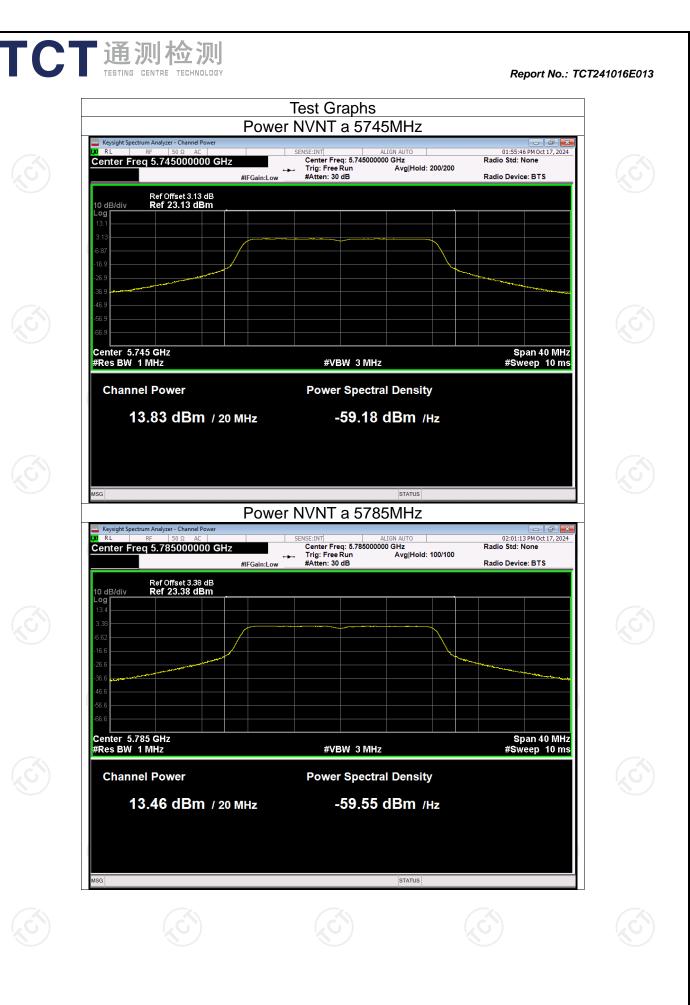
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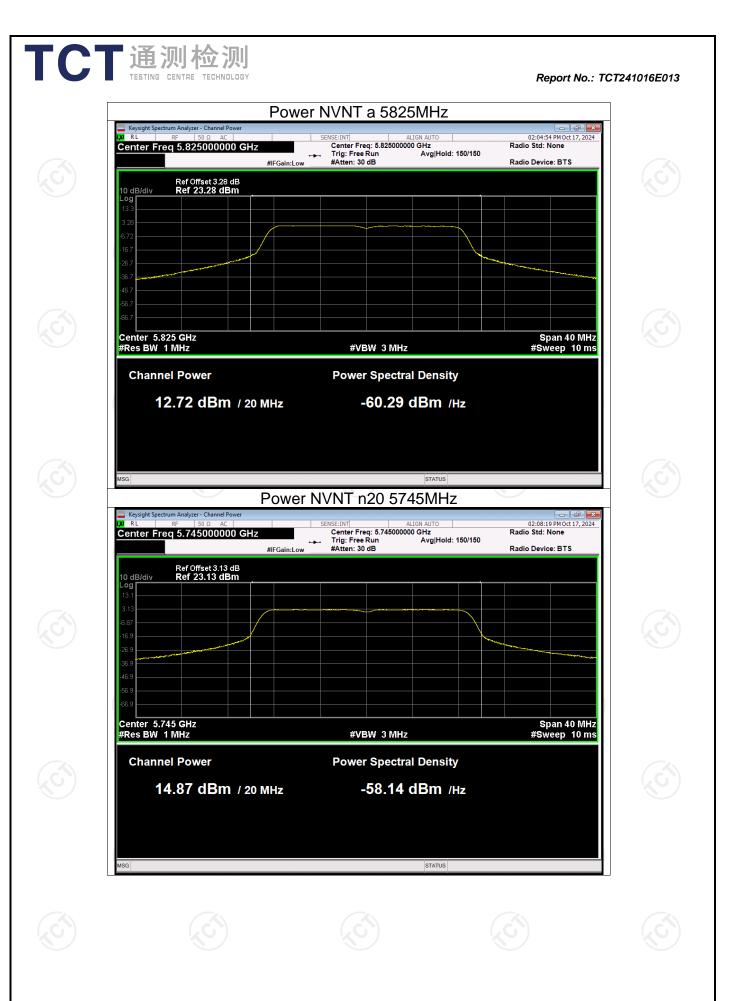
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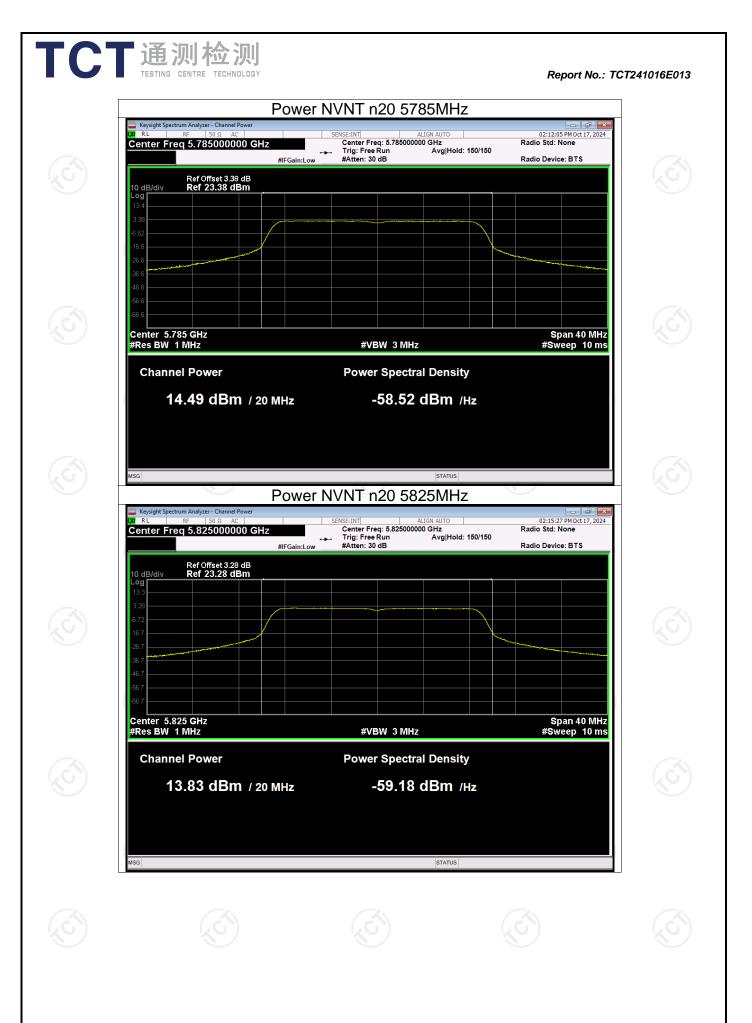
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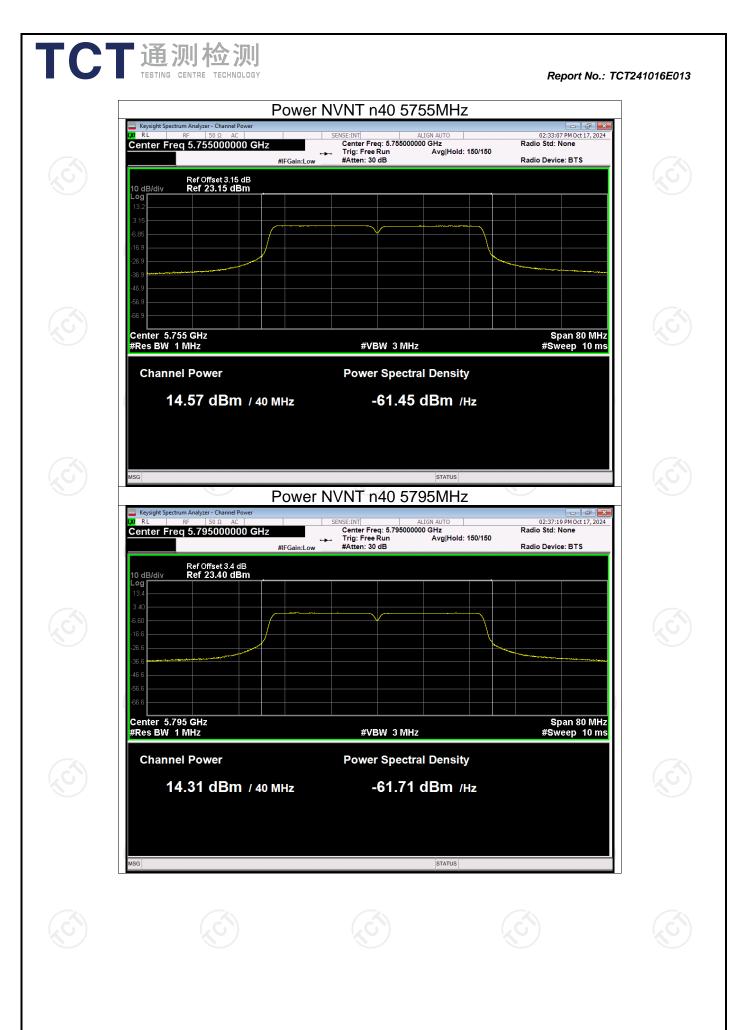
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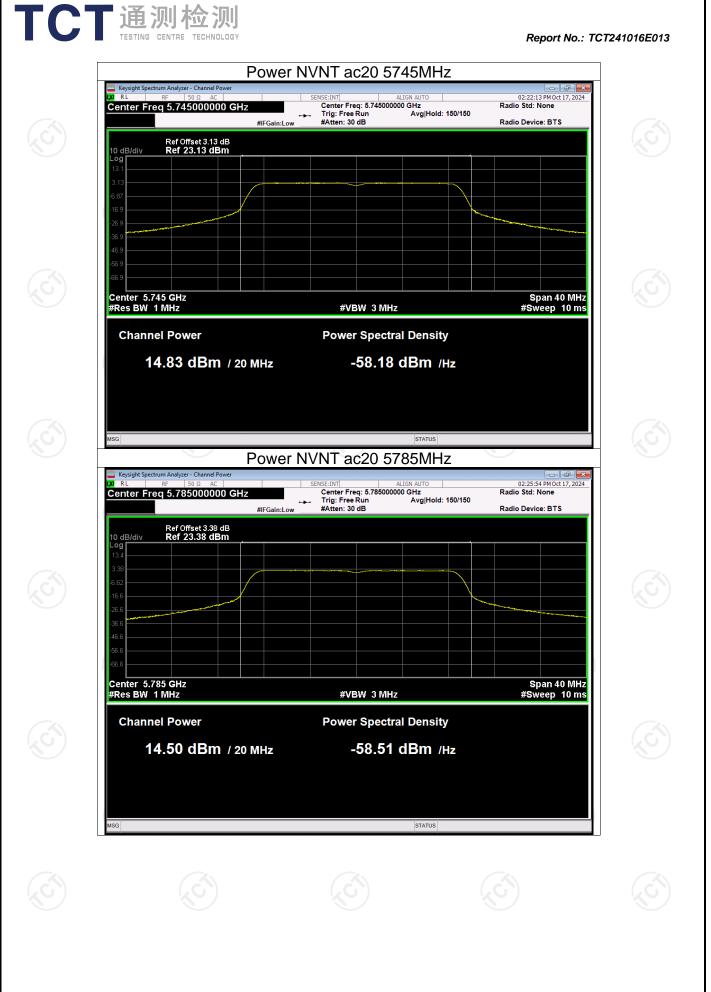


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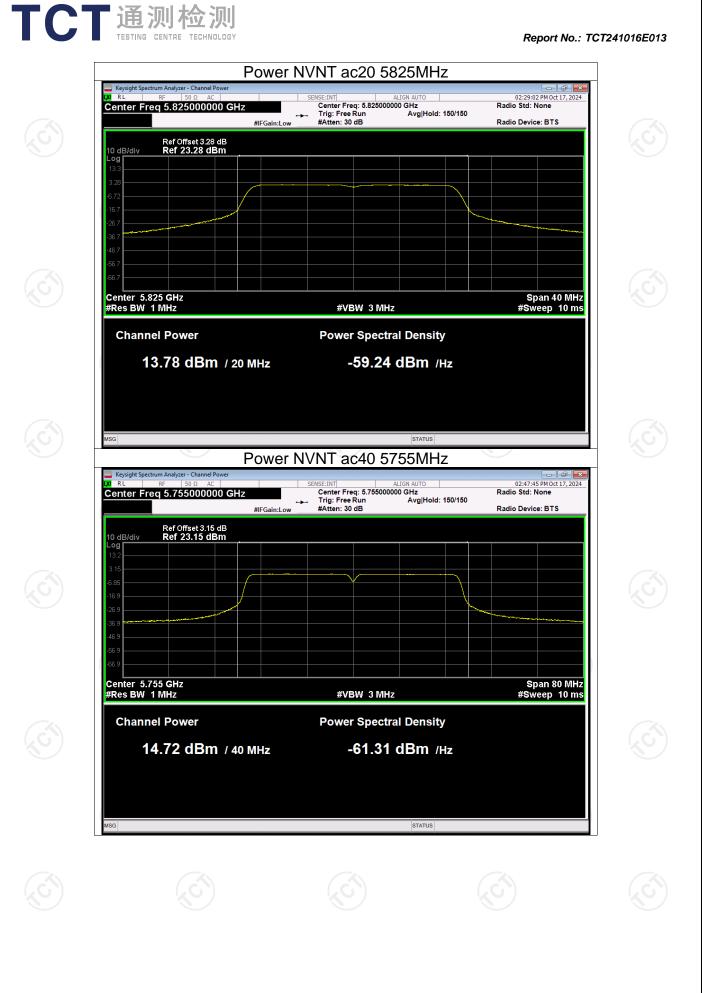


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