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TEST REPORT

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WSFT

FCC ID: 2ADYY-CM5 Product: Mobile Phone Model No.: CM5 Trade Mark: TECNO Report No.: WSCT-ANAB-R&E241100063A-BT Issued Date: 05 December 2024

TECNO MOBILE LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

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Issued for: [7]

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China 5 TEL: +86-755-26996192

Issued By:

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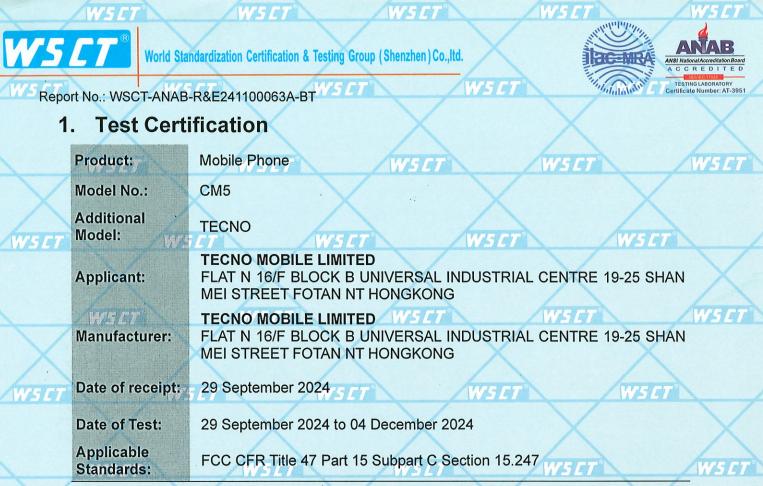
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The above equipment has been tested by World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Checked By: 5 C

Tested By:

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(Wang Xiang)

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(Qin Shuiquan)

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Approved By:

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wsr (Li Huaibi)

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Date: 05 J

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2. Test Result Summary

	Requirement	Result	W5 <i>CT</i>				
$\boldsymbol{\times}$	Antenna Requirement	§15.203/§15.247 (c)	PASS				
wsct°	AC Power Line Conducted Emission	W5CT §15.207 W5CT	PASS	\checkmark			
	Maximum conducted output	§15.247 (b)(1) §2.10467	PASS	WSET			
NS ET	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS				
	Carrier Frequencies Separation	§15.247 (a)(1)	PASS	\mathbf{i}			
	Hopping Channel Number	§15.247 (a)(1)	PASS	WSET			
\bigtriangledown	Dwell Time	§15.247 (a)(1)	PASS				
WSET	Radiated Emission	§15.205/§15.209 W-§2.1053, §2.1057 W5 C7	PASS				
	Band Edge	§15.247(d) §2.1051, §2.1057	PASS	WETT			
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.							
VSET	WSET WSET	T WSCT WSCT WSCT	WSET WSET	WSET			
	WSET WSE		\mathbf{X}	C Test			
	WHEFT	WEIT	dardization Continues	s testing droup Shenzh			

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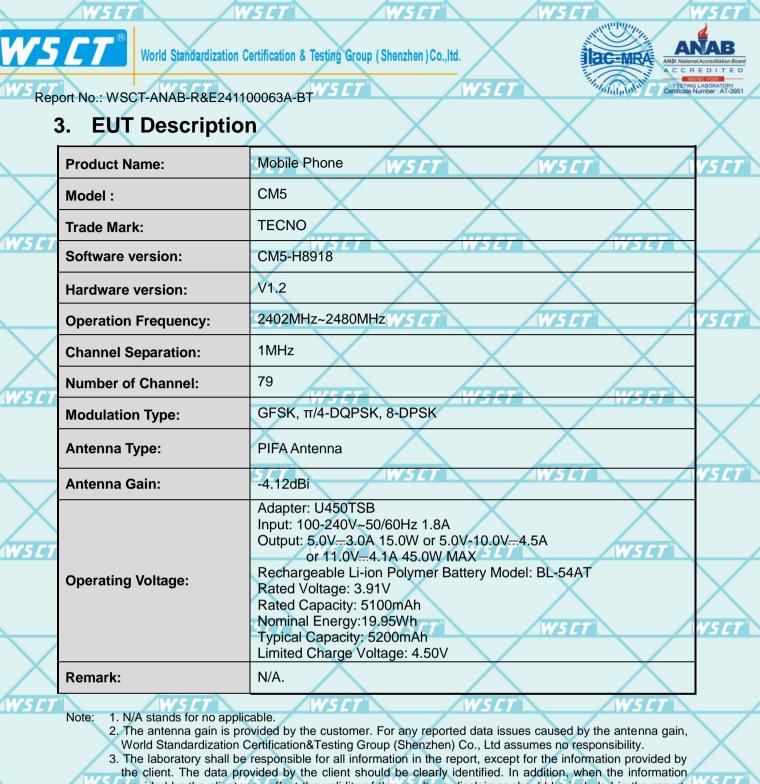
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the client. The data provided by the client should be clearly identified. In addition, when the information provided by the client may affect the validity of the results, a disclaimer should be included in the report. When the laboratory is not responsible for sampling (such as when the sample is provided by the customer), the results should be declared in the report as applicable to the received sample.

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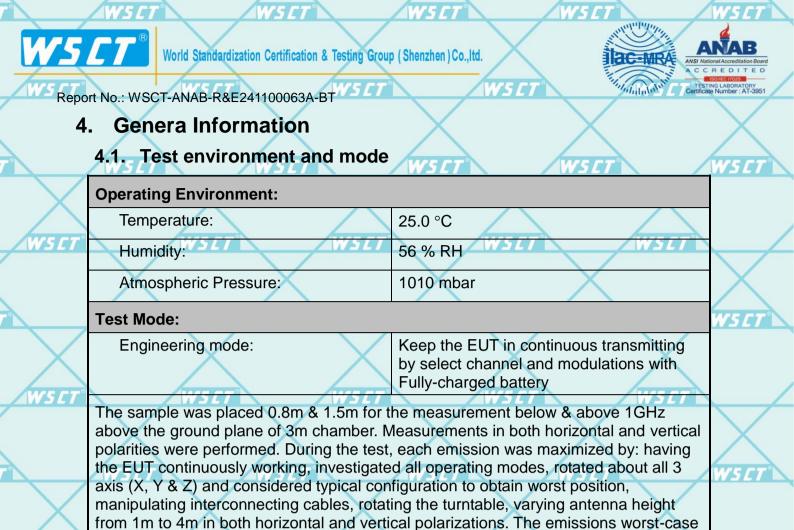
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		_	\sim						\wedge
	Operatio	n Frequenc	y each o	t channel to	or GFSK,	π/4-DQPS	K, 80PS		
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	W5 [7]
	0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz	
\wedge	1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz	
WSET		WSCT		WSCT		WSIT		WETT	
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz	
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz	X
	<u>/</u>		<u> </u>		<u> </u>		<i>.</i>		
	18_7	2420MHz	38 7	2440MHz	58	2460MHz	Z 785 L	2480MHz	WSCT®
\sim	19	2421MHz	39	2441MHz	59	2461MHz		- >	
	Remark:	Channel 0, 3	9 &78 ha	ve been tes	ted for G	FSK, π/4-D0	QPSK, 8[DPSK	
WEFT	modulatio	on mode.							

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C T	Equipment	Model No.	Serial No. FCC ID		Trade Name	
	\times	\times	\mathbf{X}	/	/	

accessories or support units. The following support units or accessories were used to

The EUT has been tested as an independent unit together with other necessary

are shown in Test Results of the following pages.

Description of Support Units

form a representative test configuration during the tests.

Note:

4.2.

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

use.

3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, 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.

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5. Facilities and Accreditations

5.1.Facilities

All measurement facilities used to collect the measurement data are located at Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

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The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS ANAB - Certificate Number: AT-3951

W5 C The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951





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5.3. Measurement Uncertainty

	No.	Item	MU	
	1	Duty Cycle and Tx-Sequence and Tx-Gap	±1%	
WSET	2	Dwell Time and Minimum Frequency Occupation	±1.2%	
	3	Medium Utilisation Factor	±1.3%	\mathbf{X}
	4	Occupied Channel Bandwidth	±2.4%	
	5	Transmitter Unwanted Emission in the out-of Band	±1.3%	
	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
WSET	7	Receiver Spurious Emissions W5C7	±2.5%	
	8	Conducted Emission Test	±3.2dB	\mathbf{X}
	9	RF power, conducted	±0.16dB	WSTT
	10	Spurious emissions, conducted	±0.21dB	
	11	All emissions, radiated(<1GHz)	±4.7dB	
W5CT	12	All emissions, radiated(>1GHz)	±4.7dB	
	13	Temperature	±0.5°C	X
	14	Humidity WSCT WSCT	±2.0%	WIT
Note:		eported uncertainty of measurement $y \pm U$, where expended uncertainty U is barrainty multiplied by a coverage factor of k=2, providing a level of confidence of a		

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 The Ulab is less than Ucispr, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an

adjustment is made follows : any additionan uncertaimty in the test system over and

above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

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5.4. MEASUREMENT INSTRUMENTS

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	5.4. WEASU	REMENTING			X		
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	SET
Х	Test software	<	EZ-EMC	CON-03A	-	Χ-	
-///	Test software		MTS8310	WSET	- /-	rert"	
	EMI Test Receiver	R&S	ESCI	100005	11/04/2024	11/03/2025	\checkmark
	LISN	AFJ	LS16	16010222119	11/04/2024	11/03/2025	\mathbf{X}
	LISN(EUT)	Mestec	AN3016	04/10040	11/04/2024	11/03/2025	SET
\times	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/04/2024	11/03/2025	
5 <i>C 1</i>	Coaxial cable	Megalon	LMR400	N/A	11/04/2024	11/03/2025	
	GPIB cable	Megalon	GPIB	N/A	11/04/2024	11/03/2025	\checkmark
	Spectrum Analyzer	R&S	FSU	100114	11/04/2024	11/03/2025	\wedge
	Pre Amplifier	H.P.CT	HP8447E 5 /	2945A02715	11/04/2024	11/03/2025	5 CT °
	Pre-Amplifier	CDSI	PAP-1G18-38	\sim	11/04/2024	11/03/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
5 <i>C 1</i>	9*6*6 Anechoic	CT V	VS CT	WSET	11/04/2024	11/03/2025	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/04/2024	11/03/2025	\times
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/04/2024	11/03/2025	SET
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/04/2024	11/03/2025	
Х	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
5 <i>C'</i> 1	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
	Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA300 0	-	11/04/2024	11/03/2025	\smallsetminus
	Loop Antenna	EMCO	6502 <i>W5</i> /	00042960	11/04/2024	11/03/2025	/ <i>5 [T</i> * *
\checkmark	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/04/2024	11/03/2025	
	Power meter	Anritsu	ML2487A	6K00003613	11/04/2024	11/03/2025	
5 <i>C 1</i>	Power sensor	Anritsu	MX248XD	<u>WSET</u>	11/04/2024	11/03/2025	- /
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/04/2024	11/03/2025	\times

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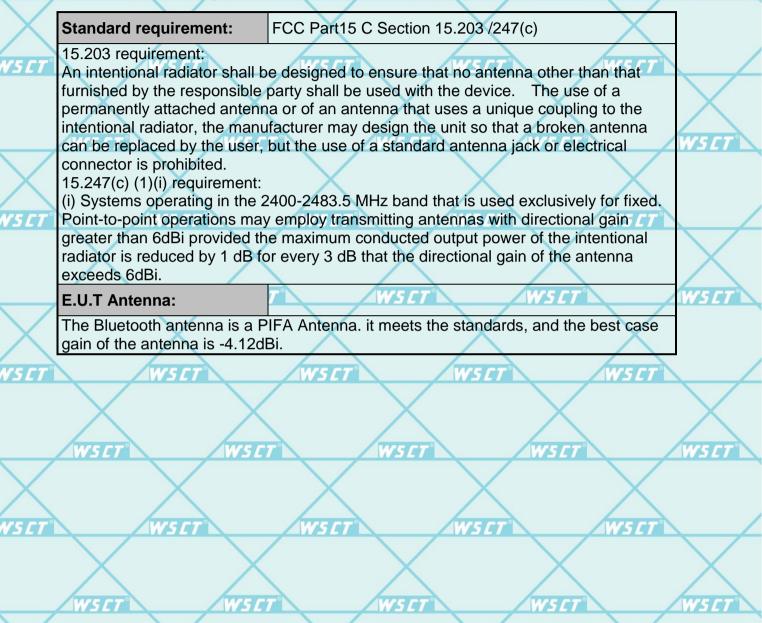
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Test Results and Measurement Data 6.

6.1.//5 Antenna requirement



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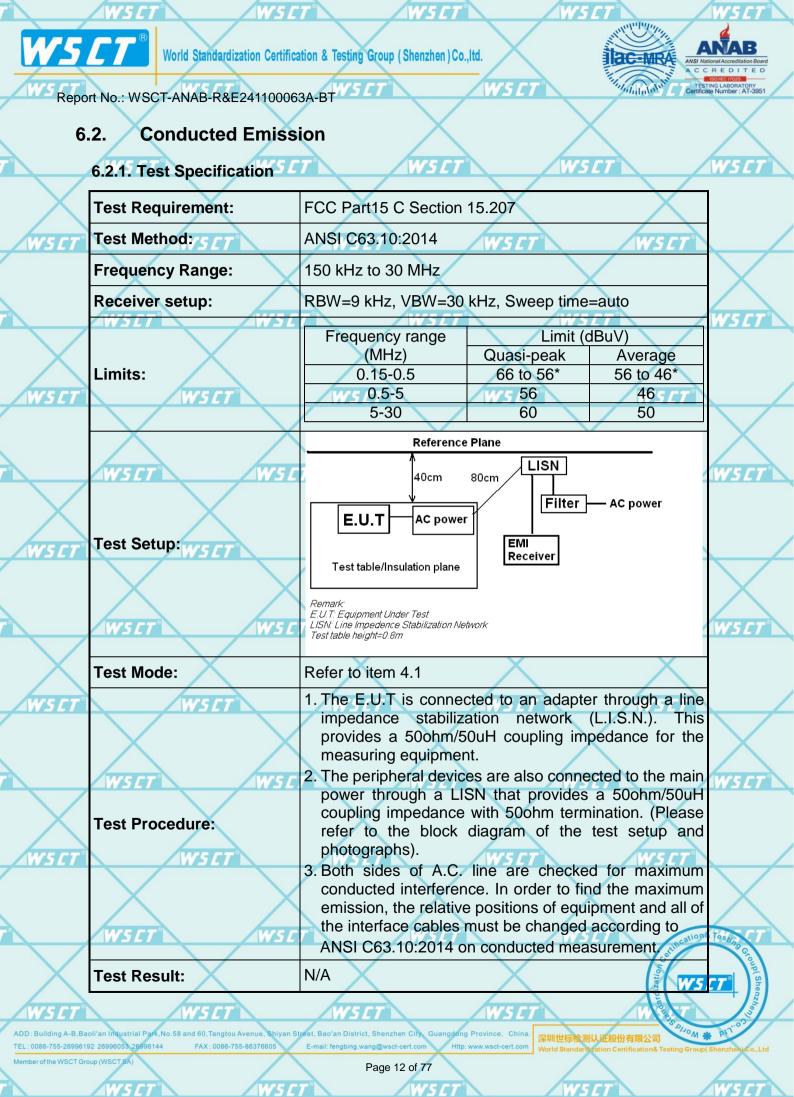
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6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is WS CT worst.

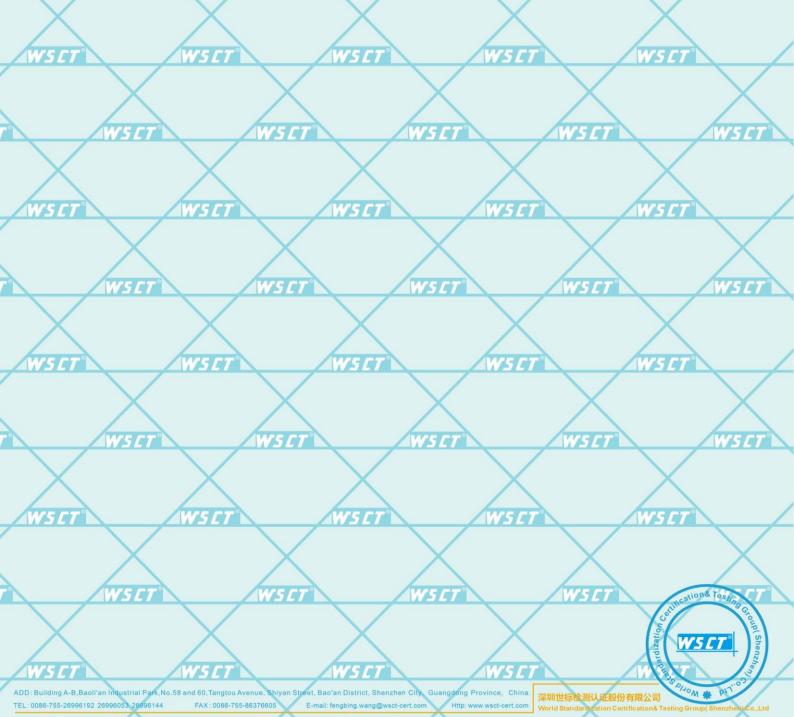
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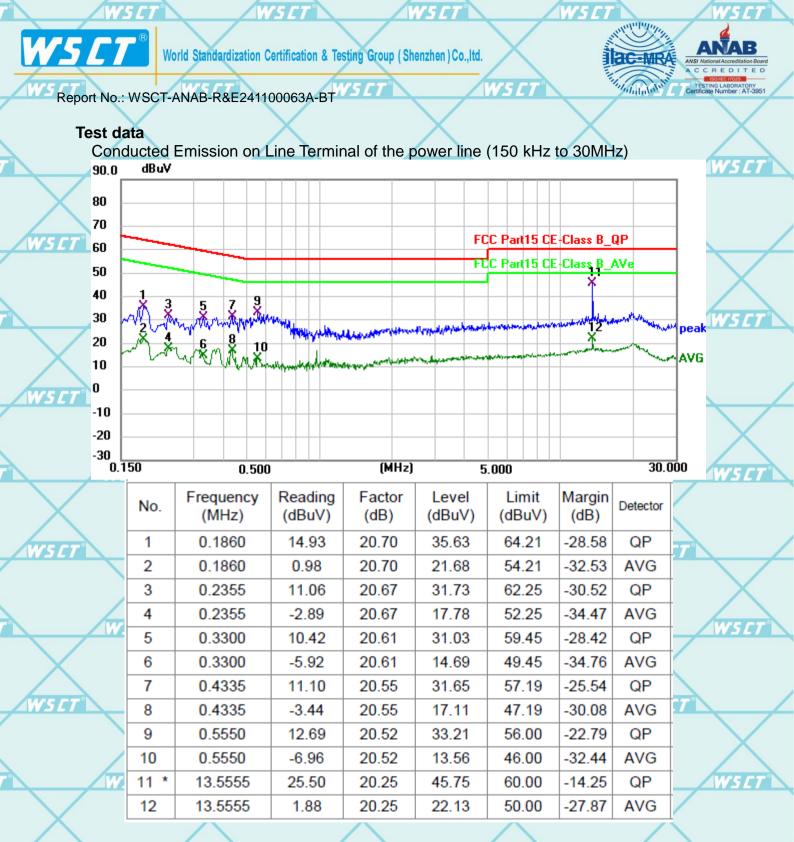
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Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.



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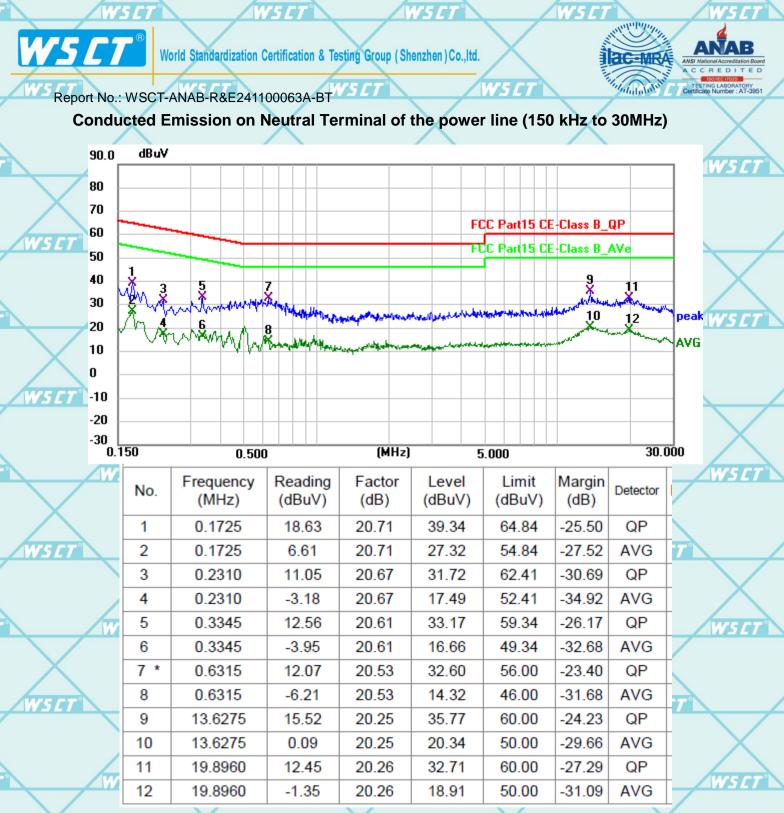
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Note1:

Freq. = Emission frequency in MHz

- Reading level ($dB\mu V$) = Receiver reading r_{5}
- Corr. Factor (dB) = LISN Factor + Cable loss
- Measurement $(dB\mu V) = Reading level (dB\mu V) + Corr. Factor (dB)$
- Limit (dB μ V) = Limit stated in standard
- Margin (dB) = Measurement (dB μ V) Limits (dB μ V)
- Q.P. =Quasi-Peak AVG =average
- * is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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6.3. Conducted Output Power

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6.3.1. Test Specification

X	X	X X X	
	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
5 <i>CT</i>	Test Method:	ANSI C63.10:2014	
SET	Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.	WSET
	Test Setup:	Spectrum Analyzer EUT	WSET
\mathbf{X}	Test Mode:	Transmitting mode with modulation	
567	Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.	WSET
	Test Result:	PASS	\bigtriangleup
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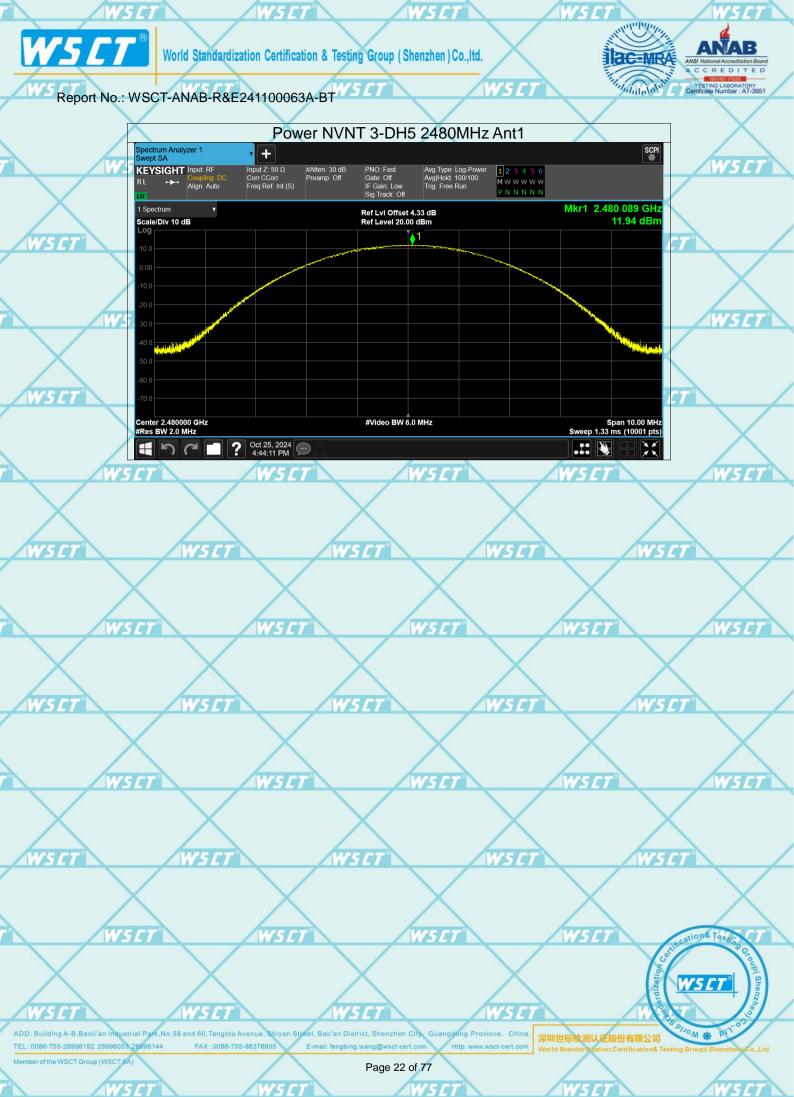
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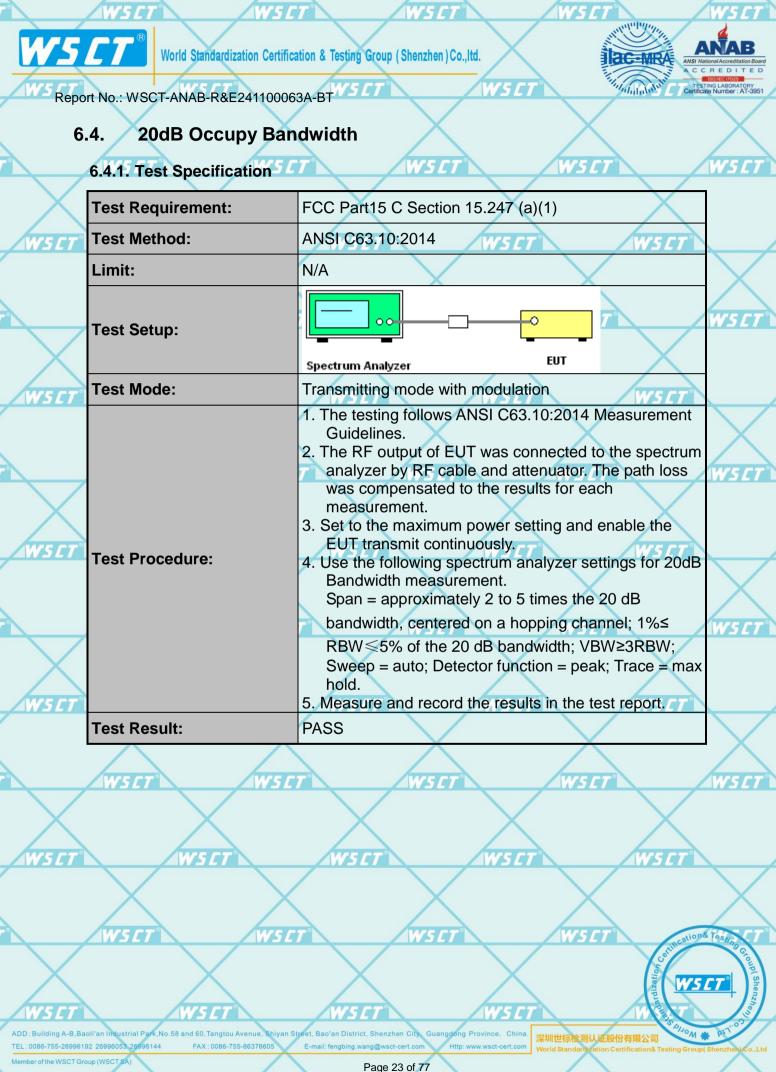
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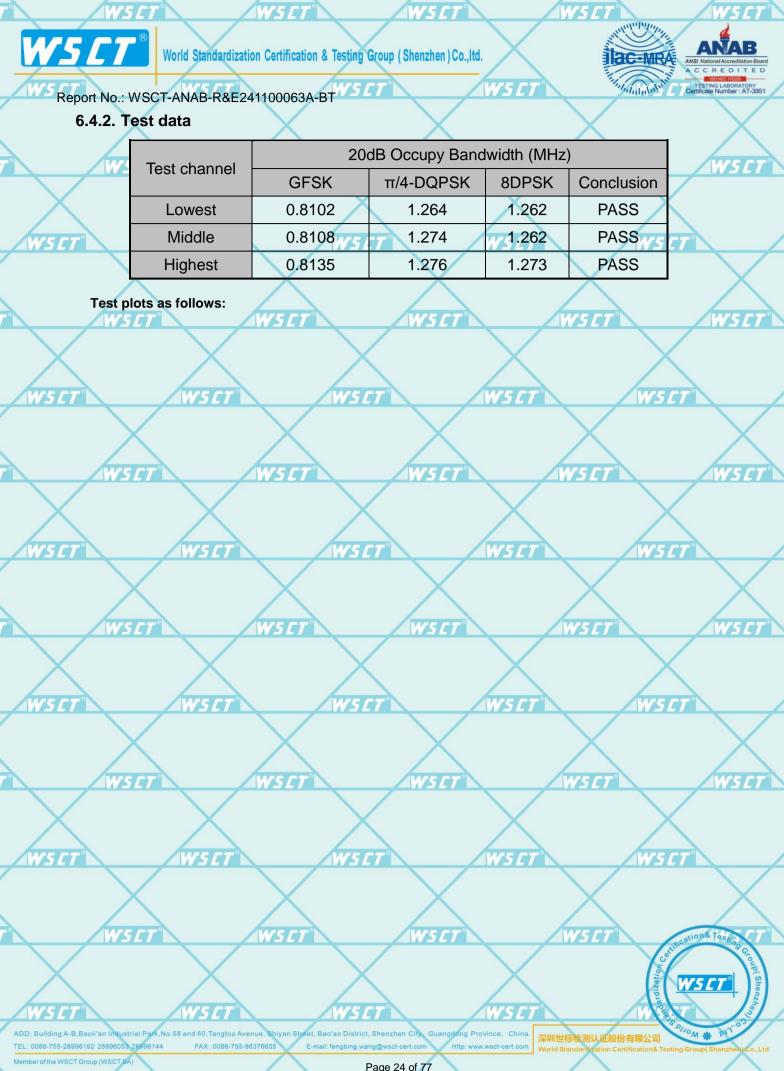
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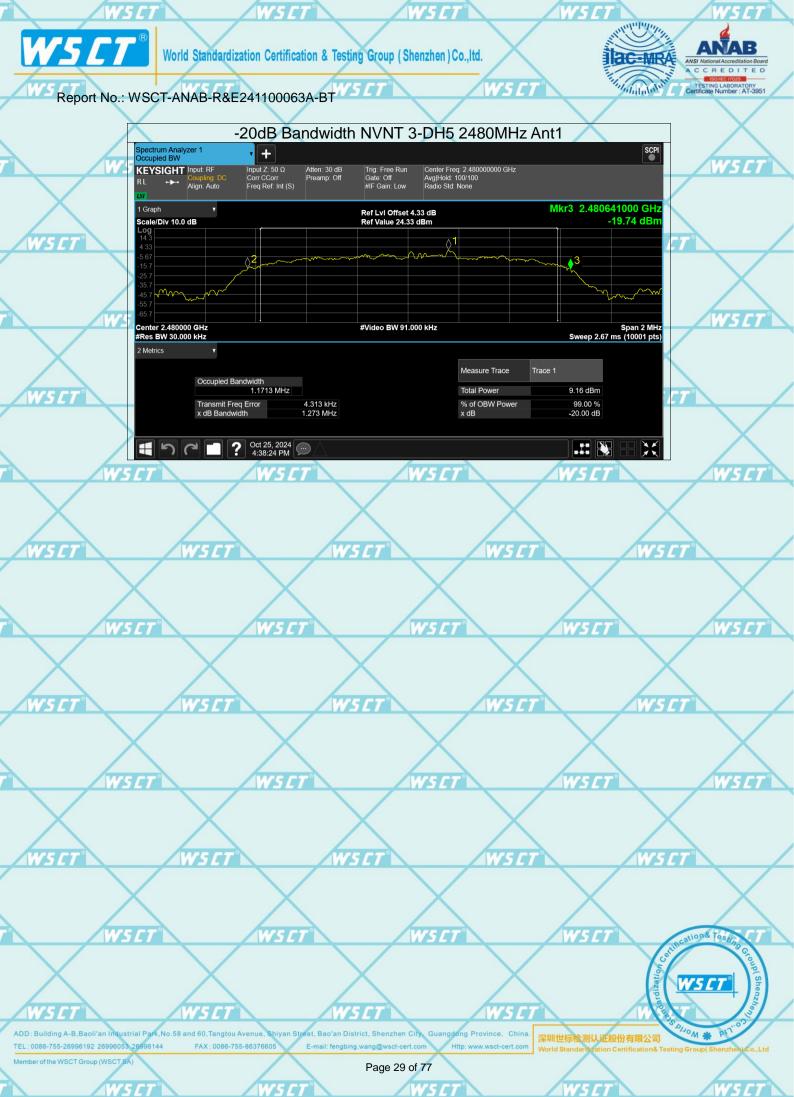
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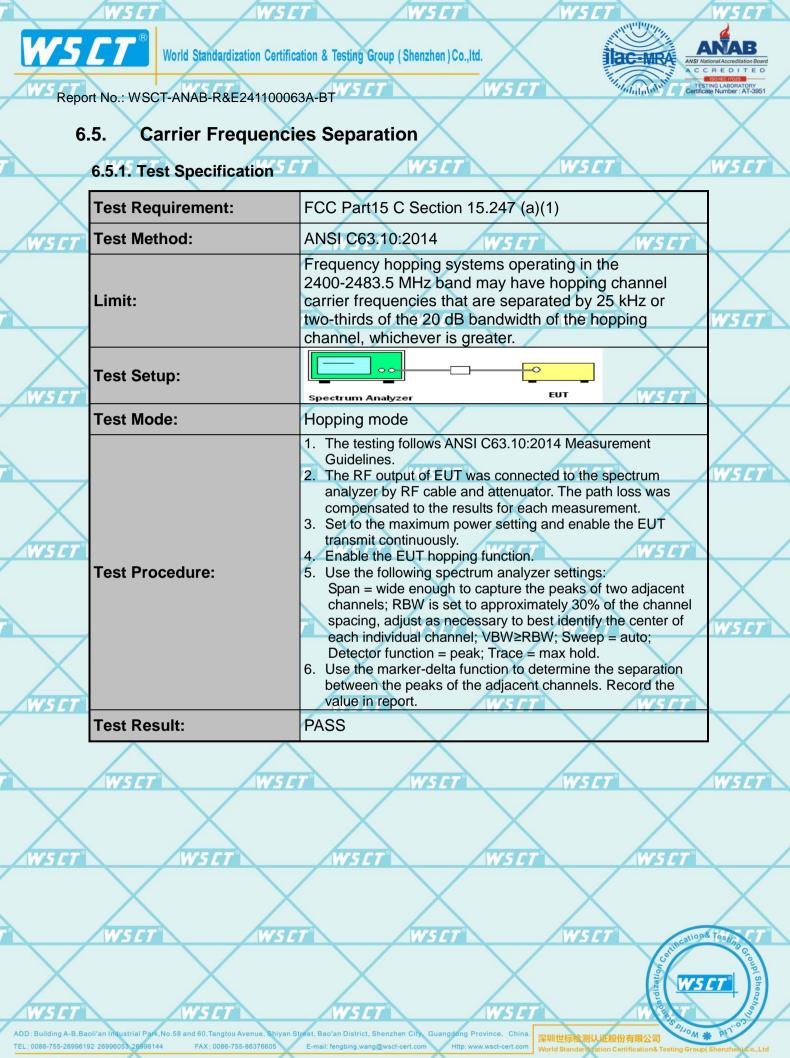












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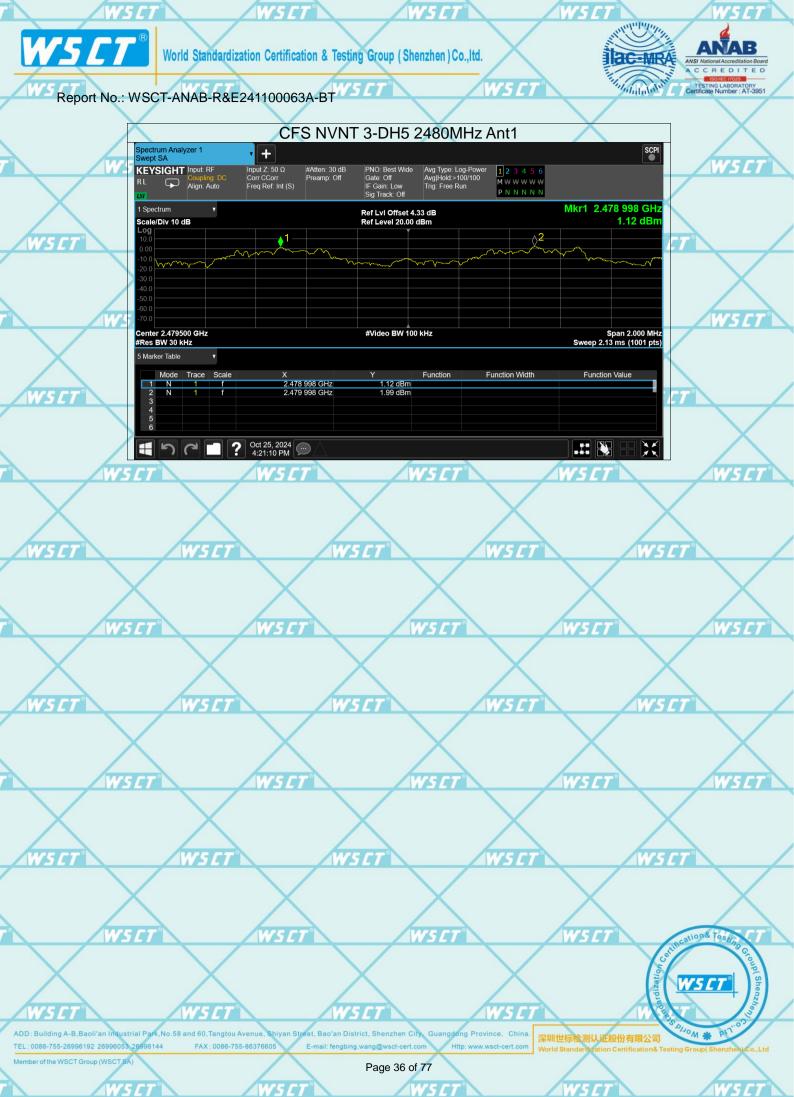
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6.6. Hopping Channel Number

6.6.1. Test Specification

X	X	X X X	
	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
	Test Method:	ANSI C63.10:2014	\checkmark
	Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.	\leq
	Test Setup:	Spectrum Analyzer EUT	<u>YS CT</u> °
	Test Mode:	Hopping mode	$\overline{}$
	Test Procedure:	 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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = 	VSET
	Test Result:	PASS	\wedge
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	WSET	WISTER WISTER	

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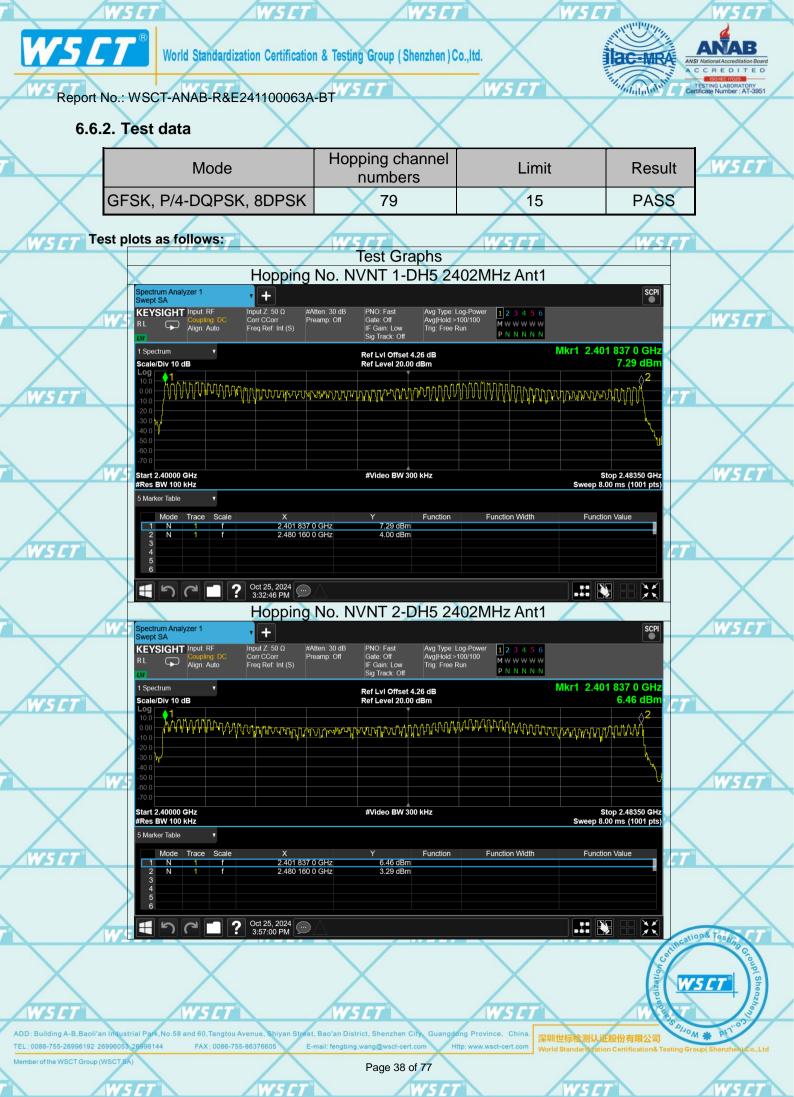
tion& Test

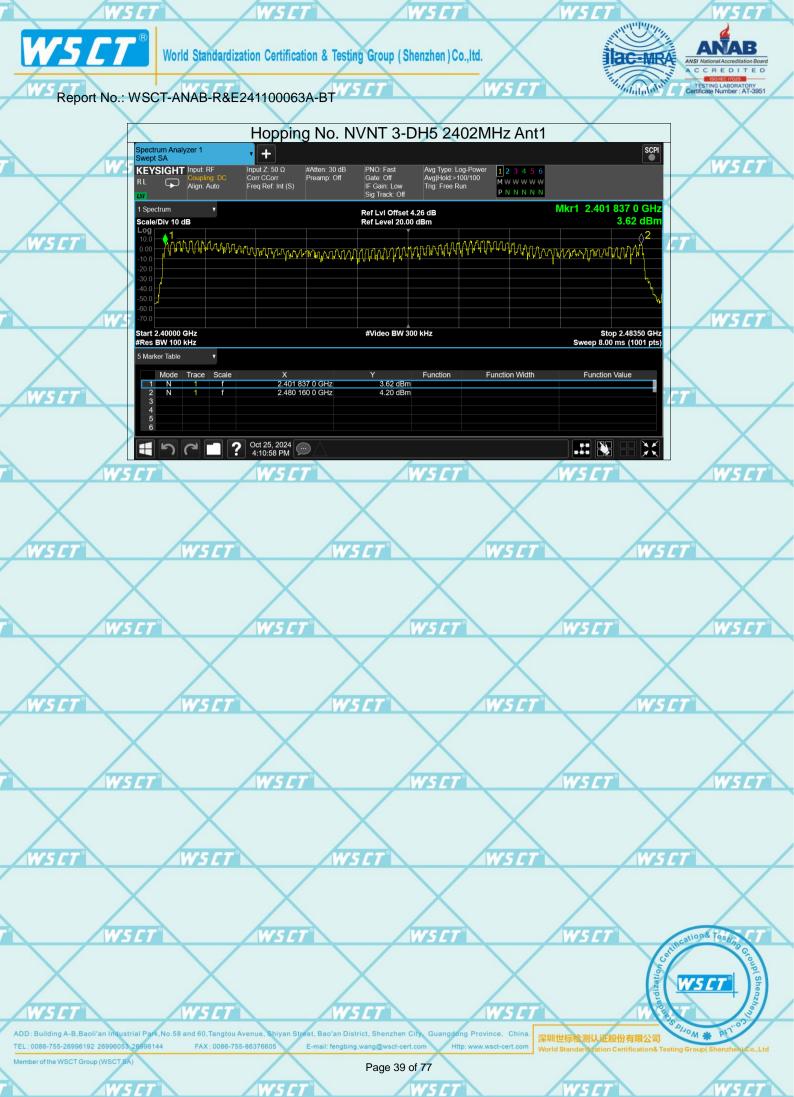
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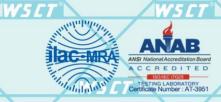
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WSCI

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6.7. Dwell Time

6.7.1. Test Specification 5

\times	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
WSET	Test Method:	ANSI C63.10:2014 W5CT W5CT	
	Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.	WSET
\times	Test Setup:	Spectrum Analyzer EUT	
WSET	Test Mode:	Hopping mode WSCT WSCT	
WSET WSET	Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. 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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 	WSET
	Test Result:	PASS	
$\overline{}$			

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6.7.2. Test Data

	WEFT				C FT N		E FT N		140
	Mode	Frequency	Pulse Time	Total Dwell Time	Burst	Period Time	Limit	Verdict	
		(MHz)	(ms)	(ms)	Count	(ms)	(ms)		
\mathbf{X}	1-DH1	2402	0.374	118.558	317	31600	400	Pass	
	1-DH1	2441	0.375	117.375	313	31600	400	Pass	
	1-DH1	2480	0.374	117.81	315 🧹	31600	400	Pass	1
	1-DH3	2402	1.631	241.388	148	31600	400	Pass	
	1-DH3	2441	1.631	272.377	167	31600	400	Pass	
	1-DH3	2480	1.631	272.377	167	31600	400	Pass	
	1-DH5	2402	2.879	325.327	113	31600	400	Pass	
	1-DH5	2441	2.879	328.206	114	31600	400	Pass	
	1-DH5	2480	2.876	301.98	105	31600 🧹	400	Pass	/
	WEFT	-0	WELT		C C T		- FT		100

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Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate (1600 / 2 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

For DH3, With channel hopping rate (1600 / 4 / 79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 4 / 79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:



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WSET



