



TEST REPORT

FCC ID: 2AXYP-OSW-806N

Product: Smart Watch

Trade Mark: oraimo

Model No.: OSW-806N

Report No.: WSCT-ANAB-R&E240900046A-BT

Issued Date: 30 September 2024

Issued for:

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

Issued By:

WSET

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, Guangdong, China.

TEL: +86-755-26996192

FAX: +86-755-86376605

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Test Certification 1.

Product: Smart Watch

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Model No.:

OSW-806N

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Model:

ORAIMO TECHNOLOGY LIMITED

Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

ORAIMO TECHNOLOGY LIMITED

Manufacturer: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

Date of receipt: 10 September 2024

Date of Test: 11 September 2024 ~ 29 September 2024

Applicable Standards:

FCC CFR Title 47 Part 15 Subpart C Section 15.247

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.

WSLT

Tested By:

Checked By:

WSET

(Wang Xiang)

(Qin Shuiguan)

WSET

Approved By:

(Li Huaibi)

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Test Result Summary 2.

	Annual Annual		Annual A
1	Requirement	CFR 47 Section	Result
	Antenna Requirement	§15.203/§15.247 (c)	PASS
7	AC Power Line Conducted Emission	W5 CT §15,207 W5 CT	PASS
_	Maximum conducted output power ws/	§15.247 (b)(1) §2.1046	W5 PASS
	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS
#	Carrier Frequencies Separation	§15.247 (a)(1)	PASS
	Hopping Channel Number	§15.247 (a)(1)	PASS
7	Dwell Time	§15.247 (a)(1)	PASS
	Radiated Emission	§15.205/§15.209 W-§2.1053, §2.1057 W-5-77	PASS
	Band Edge	§15.247(d) §2.1051, §2.1057	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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EUT Description 3.

	Product Name:	Smart Watch W5 [7]	VS ET
/	Model :	OSW-806N	
	Trade Mark:	oraimo	
LI	Software version:	V1.13	$\overline{}$
	Hardware version:	Z1650V2.0	\times
	Frequency Range:	2402-2480MHz(TX/RX)	V5 ET
/	Channel Separation:	1MHz	
_	Number of Channel:	79	
	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK	
	Antenna Type	Wire Antenna	
_	Antenna Gain:	-0.91dBi	WS ET 1
<u></u>	Operating Voltage	Rechargeable Li-ion Polymer Battery: 502426 Rated Voltage: 3.7V Typical Capacity: 300mAh/1.11Wh	
	Remark:	N/A.	\bigvee
		^ ^	

Note: 1. N/A stands for no applicable.

2. Antenna gain provided by the applicant

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Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	W05 E7	2402MHz	V20	2422MHz	40	2442MHz	6057	2462MHz
7	1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
		X		X		X		X
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	X		X		\times		×	
	18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
	V19 [7	2421MHz	V39 C7	2441MHz	59 6	2461MHz	W5 C	7
_		01 100	0.0701				20014 05	DOLO

Remark: Channel 0, 39 &78 have been tested for GFSK, $\pi/4$ -DQPSK, 8DPSK modulation mode.

modul	ation mode.			
WSET	WSET	WSET	WSCT	WSCT
		$\langle \hspace{0.1cm} \rangle$		
WS	ET W	ET WS	ET WS	WSET
WSET	WSET	WSCT	WSET	WSET
WS	CT W	ET WS	CT WS	WSET
A CONTRACTOR OF THE PARTY OF TH	Marie Carrie	Mark Committee	The state of the s	MARKET
WSCT	WSET	WSET	WSET	WSET
		$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \times $
WSCT		WS CT WS	$\langle \hspace{0.1cm} \rangle$	$\langle \times $
WS	FT WS	ET WS	CT WS	WSET
		$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \times $
WSET	WSET	WS ET	WSIT	WSET WSET
WS	WSET	ET WS	WSIT	WSET WSET
WSET	WSET	WS ET	WSIT	WSET

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Genera Information 4.

4.1. Test environment and mode

7	Operating Environment:		
1	Temperature:	25.0 °C	
À	Humidity:	56 % RH	
	Atmospheric Pressure:	1010 mbar	X
	Test Mode:		W5 L
	Engineering mode:	Keep the EUT in continuous transmitting	
1		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 are shown in Test Results of the following pages.

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
	X	X	1	X /

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, 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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Facilities and Accreditations 5.

5.1. Facilities

All measurement facilities used to collect the measurement data are located at

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Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China.

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

CNAS - Registration Number: L3732

China National Accreditation Service for Conformity Assessment. The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

ANAB - Certificate Number: AT-3951

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

The reported uncertainty of measurement y ± 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 %.

		nes el appreximately es 70.	
X	No.	Item	MU
WSET	7	Conducted Emission Test W 5 [7] W 5 [7]	±3.2dB/5//
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
\times	5	All emissions, radiated(>1GHz)	±4.7dB
WSET	6	Temperature W5CT W5CT	±0.5°C/5//
	7	Humidity	±2.0%

	7	Humidity	X	\times	±2.0%	\times
	WSE	7	WSLT	WSET	WSLT	WSET
WSET		WSLIT	WSI		SET	WSET
	WSI		WSCI	WSET	WSET	WSCT
WSET		WSCT	WSI		X	WSET
	WSI		WSET	WSCT	WSET	WSCT
WSET		WSET	WSI		\times	WSET
	WSI		WSET	WSET	WSET	X
X		X	\rightarrow		\times	WSCT Street

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5.4. MEASUREMENT INSTRUMENTS

	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	75 L
\langle	Test software	-	EZ-EMC	CON-03A	-	X-	
	Test software		MTS8310	WELT	- /	18.5 7	
7	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	\times
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	75 L
/	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
4	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	\nearrow
	Pre Amplifier	H.P	HP8447E	2945A02715	11/05/2023	11/04/2024	15 L
/	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
1	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2023	7/28/2024	
7	9*6*6 Anechoic	ET . V	VSET .	WS ET	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	<u> </u>	11/05/2023	11/04/2024	×
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	75.1
/	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
4	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	-	11/05/2023	11/04/2024	
	Loop Antenna	EMCO	6502W51	00042960	11/05/2023	11/04/2024	15 L
1	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
1	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
9	Power sensor	Anritsu	MX248XD	WSEI	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	X

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Test Results and Measurement Data 6.

6.1. Antenna requirement

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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. permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is a Wire Antenna. it meets the standards, and the best case gain of the antenna is -0.91dBi.





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Conducted Emission 6.2.

_	6.2.1. Test Specification	T WSET WSET	W5ET
	Test Requirement:	FCC Part15 C Section 15.207	
7	Test Method:	ANSI C63.10:2014 W5 [7]	
	Frequency Range:	150 kHz to 30 MHz	\times
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	
	Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50	WSCT
	\times	Reference Plane	X
7	WSET	40cm 80cm Filter AC power	WSET
7	Test Setup: WSCT WSC	Test table/Insulation plane Remark E U T: Equipment Under Test LISN: Line Impedence Stabilization Network	WSET
7	Test Mode:	Test table height=0.8m Refer to item 4.1	W-141
		1. The E.U.T is connected to an adapter through a line	
_	WSET WSE	 impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH 	X
	Test Procedure:	coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).	
	WSET	3. 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 C63.10:2014 on conducted measurement.	Craul

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PASS

Test Result:





6.2.2. EUT OPERATING CONDITIONS

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The EUT is working in the Normal link mode. All modes have been tested and normal link mode is W.S.E. worst.

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.

WSET	WSE	T WAS	ET	WSCT	WSET
WSET	WSET	WSET	WSET	WS	
WSLI	\times			WSCT	WSET
WSCT	WSCT	WSET	WSCT	WS	
WSET	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$			WSET	WSET
WSCT	WSET	WSET	WSCT	WS	
WSLI	\times			WSET	WSET
WSET	WSET	WSET	WSET	WS	
WSET	WSE			X	X
WSCT	WSET	WSET	WSET	Oardization Co.	WSLT Shenzy
ADD: Building A-B, Baoli'an Industrial Park TEL: 0086-755-26996192 26996053 2699614 Member of the WSCT Group (WSCT SA)	,No.58 and 60,Tangtou Avenue, Shiyan S		uangdong Province, China.	I世标检测认证股份有限公司 Id Standard cation Certifications Tes	Sting Group(Shenzheh) CoLtd

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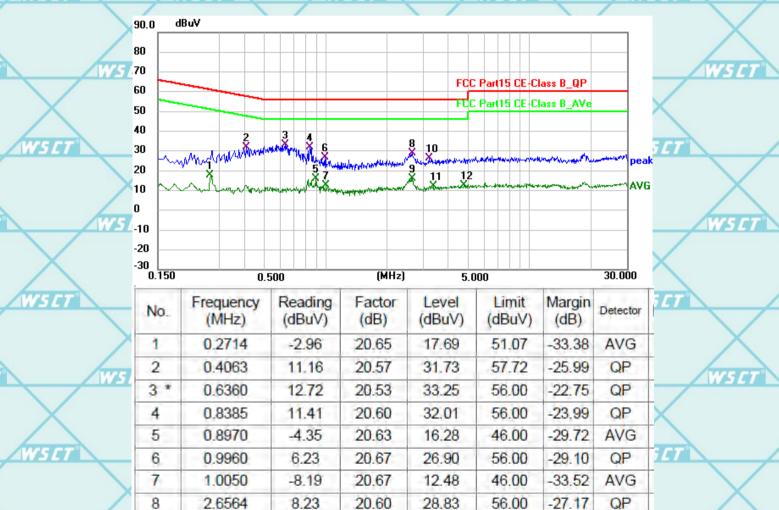


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6.2.3. Test data

	THE PARTY	TAKE P. P. P.	Take -				77	7.
7	Temperature	20 ℃	Relative Humidity	48%		/	1.6	2
	Pressure	1010 hPa	Test Mode	Bluetooth + charging	X			

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



WSC1

2.6564

3.2100

3.3990

4.7804

-4.39

5.88

-8.41

-7.81

20.60

20.59

20.59

20.57

WSE

16.21

26.47

12.18

12.76

WSE

-29.79

-29.53

-33.82

-33.24

AVG

QP

AVG

AVG

W5C1

46.00

56.00

46.00

46.00

9

10

11

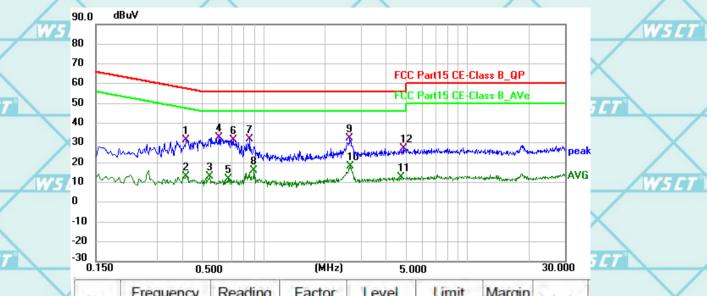
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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



×	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
7	1	0.4155	11.13	20.56	31.69	57.54	-25.85	QP	
	2	0.4155	-7.33	20.56	13.23	47.54	-34.31	AVG	
	-3	0.5415	-7.45	20.52	13.07	46.00	-32.93	AVG	X
	4 *	0.6045	12.42	20.53	32.95	56.00	-23.05	QP	74
	5	0.6675	-8.60	20.54	11.94	46.00	-34.06	AVG	14
X	6	0.7080	10.78	20.54	31.32	56.00	-24.68	QP	Ī
	7	0.8520	11.16	20.61	31.77	56.00	-24.23	QP	
7.	8.	0.8970	-4.73	20.63	15.90	46.00	-30.10	AVG	_
İ	9	2.6475	11.82	20.60	32.42	56.00	-23.58	QP	/
	10	2.6520	-2.51	20.60	18.09	46.00	-27.91	AVG	\wedge
	11	4.7040	-7.77	20.57	12.80	46.00	-33.20	AVG	5 <i>C T</i>
	12	4.8840	6.46	20.57	27.03	56.00	-28.97	QP	

Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN Factor + Cable loss

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

Limit (dBµV) = 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.

Note1: Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case

Mode (GFSK) was submitted only.

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6.3. Conducted Output Power

6.3.1. Test Specification

X	Y Y
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2014
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.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
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.
Test Result:	PASS

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4W5CT

WSIT

4W5ET

DD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shlyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chin EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

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6.3.2. Test Data

		GFSK mo	ode	
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result
1	Lowest	8.9	20.97	PASS
	Middle	8.58	20.97	PASS
	Highest	9.58	20.97	PASS

7		Pi/4DQPSK	mode	
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result
	Lowest	5.425	20.97	PASS [7]
	Middle	8.64	20.97	PASS
	Highest	9.63	20.97	PASS

WSLT N WSET \ WSET N 8DPSK mode Maximum conducted Limit (dBm) Test channel Result output power (dBm) WS ET **PASS** Lowest 5.43 20.97 **PASS** Middle 8.67 20.97 Highest 20.97 **PASS** 9.65

X	X	\times	X	\times
WSET	WSET	WSET	WSCT	WSET
				7

	15 ET	WSET	WSET	WSET	WSET
A .	A-1 -1 -1				

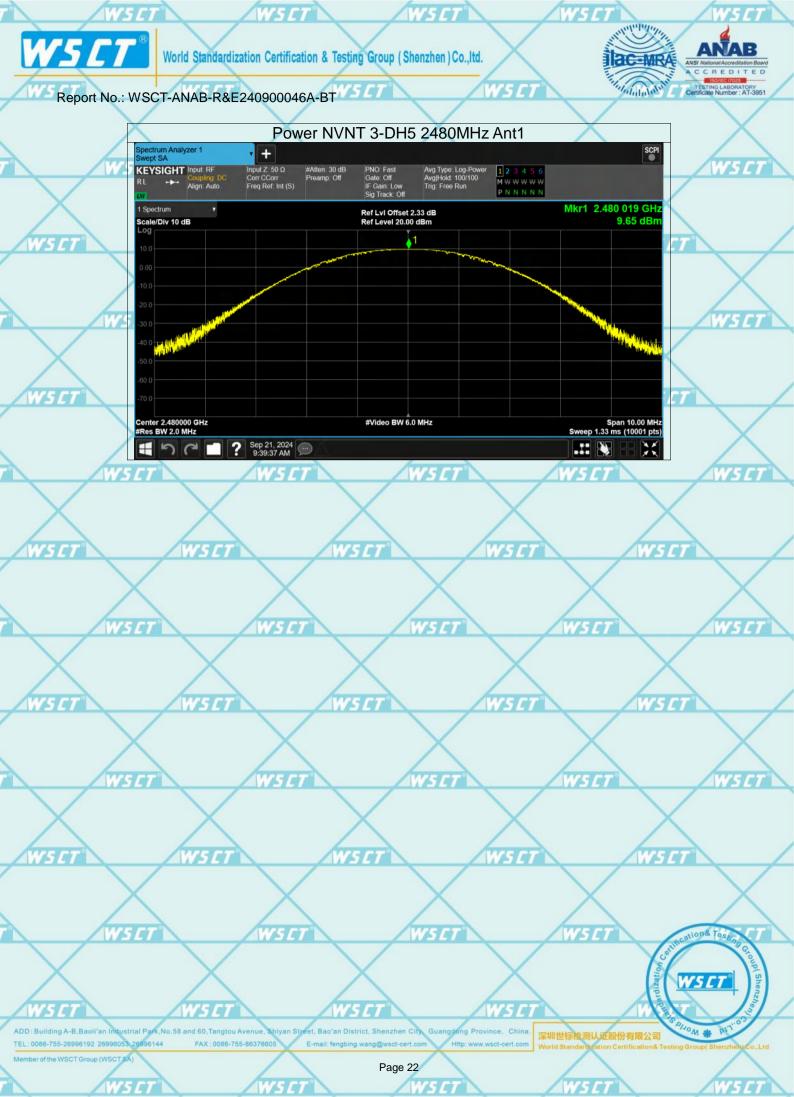
WSET	WSL	7	VS CT	WSET	ation& Testin
				Cost.	a Crouple
	X	X	X	tio .	D D













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W5 CT

6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

W5ET

WSLT

WSET

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
WSET	Test Method:	ANSI C63.10:2014 W5 [7] W5 [7]	
	Limit:	N/A	\times
X	Test Setup:	Spectrum Analyzer EUT	WSLT
WSLT	Test Mode:	Transmitting mode with modulation	
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. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤ RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 	WSCT
	Test Result:	PASS	

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W5 ET

6.4.2. Test data

Z Test channel	200	dB Occupy Band	lwidth (MHz))
rest chamile	GFSK	π/4-DQPSK	8DPSK	Conclusion
Lowest	0.9613	1.276	1.178	PASS
Middle	0.9324	1.281	1.231	PASS
Highest	1.076	1.347	1.305	PASS
	LIFE		IF17A	

W5 ET Test plots as follows: WSEI WSEI WSEI W5 CT W5C1 W5C W5 ET W5C7 W5 CT W5E7 WSEI W5 ET W5 ET W5 ET W5 ET W5 ET

WSE WSE W5 C W5E

WSE

W5C1 WSEI W5C WSE W5 ET

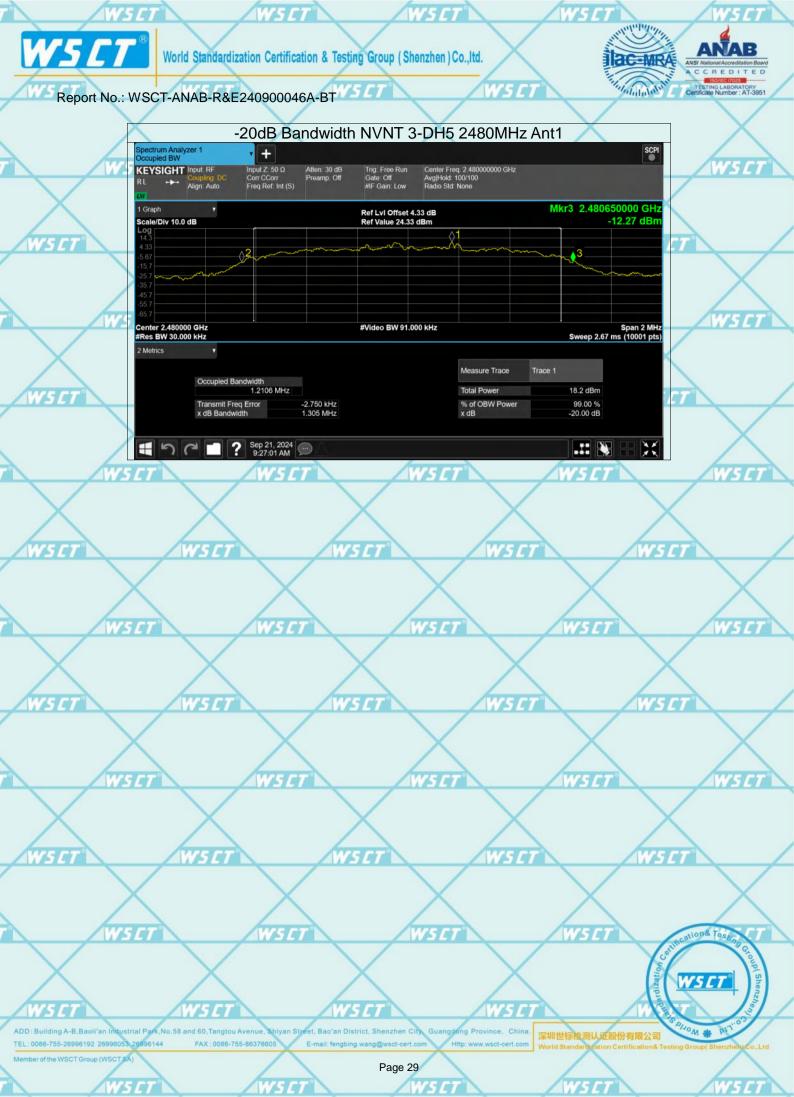
W5 ET













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W5EI

Carrier Frequencies Separation 6.5.

6.5.1. Test Specification

W5 CT

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
WSET	Test Method:	ANSI C63.10:2014 W5 [7]	
	Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.	WSET
WSET	Test Setup:	Spectrum Analyzer EUT W5///	
	Test Mode:	Hopping mode	$\overline{}$
WSCT	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 = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report. 	WSET
	Test Result:	PASS	

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W5 CT

6.5.2. Test data

	A STATE OF THE STA	WELL		ALC:	WSIT
1		GFSK mo	ode		
\	Test channel	Carrier Frequencies Separation (MHz)	Limit ((2/3*20dB BW MHz))	Result	
	Lowest	0.996	0.641	PASS 77	
	Middle	1.002	0.622	PASS	\times
	Highest	1.002	0.717	PASS	
					1 47 9 8

WSLT

W5 ET

		Pi/4 DQPSK mode			
-	Test channel	Carrier Frequencies Separation (MHz)	Limit ((2/3*20dB BW MHz))	Result	
	Lowest	0.988	0.851	PASS	
	Middle	1.01	0.854	PASS	
	Highest	W5 [7 1.002 M	5 <i>LT</i> 0.898	SET PASS	

WSCT

1	Test channel	Carrier Frequencies Separation (MHz)	Limit ((2/3*20dB BW MHz))	Result
	Lowest	1.002	0.785	PASS
	Middle	0.998	0.821	PASS
	Highest	1.002	0.870	PASS

Test plots as follows:

WSCT WSCT WSCT WSCT

WSET WSET WSET WSET WSET

WSET WSET WSET WSET

WSCT WSCT WSCT WSCT

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WSCT WSCT

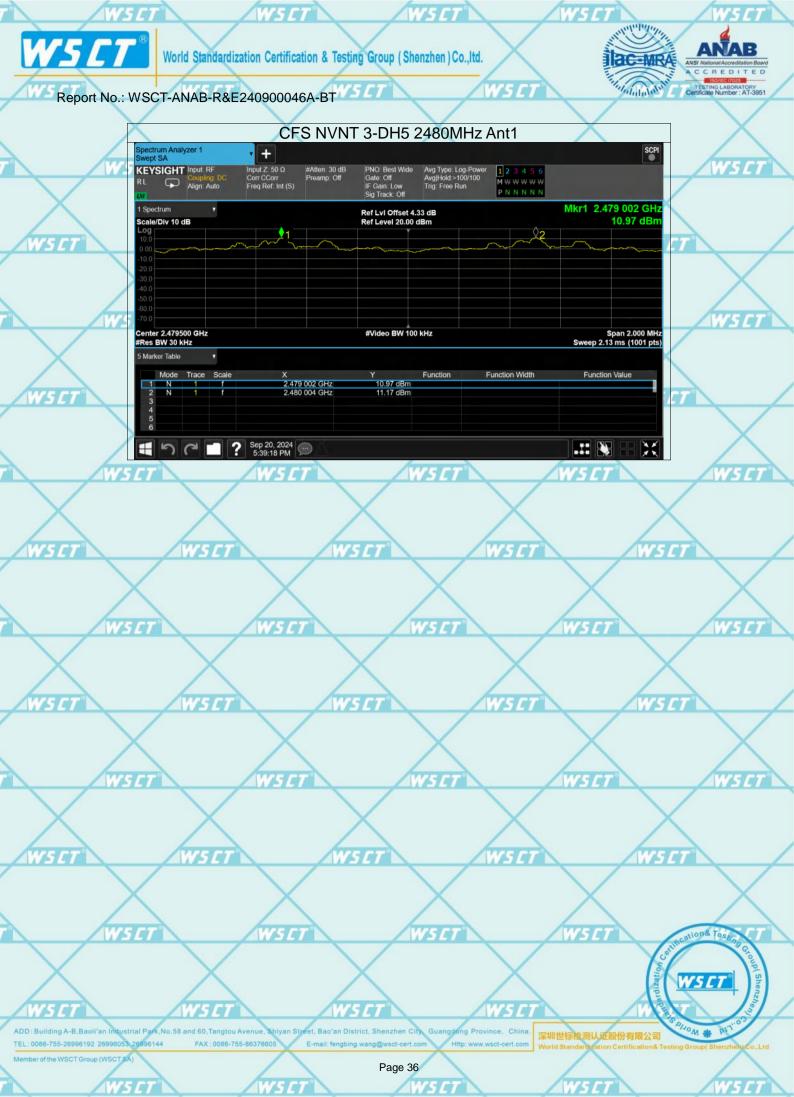
W5CT











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Hopping Channel Number 6.6.

W5 CT

W5 CT

W5C7

6.6.1. Test Specification

			4
WSCT	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
	Test Method:	ANSI C63.10:2014	
	Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.	\times
WSET	Test Setup:	Spectrum Analyzer EUT	WS ET
	Test Mode:	Hopping mode	
WSET		 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 	WSET
WSET	Test Procedure:	 EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. The number of hopping frequency used is defined as the number of total channel. 	W5ET
	Test Result:	7. Record the measurement data in report. PASS	WSCT

W5 CT

W5 ET

W5E7

W5 E1

W5CT







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WSET

Test data

Mode	Hopping channel numbers	Limit	Result	1
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS	

WS ET Test plots as follows: Test Graphs Hopping No. NVNT 1-DH5 2402MHz Ant1 SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) 1 2 3 4 5 6 M W W W W W KEYSIGHT Input RF Align: Auto Mkr1 2.402 004 0 GHz Ref LvI Offset 4.26 dB Ref Level 20.00 dBm 6.89 dBm Scale/Div 10 dB Start 2.40000 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 2.48350 GHz eep 8.00 ms (1001 pts) X 2.402 004 0 GHz 2.479 993 0 GHz ? Sep 20, 2024 Hopping No. NVNT 2-DH5 2402MHz Ant1 pectrum Analyzer 1 wept SA + SCPI Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) 1 2 3 4 5 6 M W W W W W KEYSIGHT Input RF Align: Auto Mkr1 2.401 837 0 GHz Ref LvI Offset 4.26 dB Ref Level 20.00 dBm WWw.www.naan #Video BW 300 kHz Start 2.40000 GHz #Res BW 100 kHz Stop 2.48350 GHz ep 8.00 ms (1001 pts) A 2.401 837 0 GHz 2.480 410 5 GHz ion& Tes .:: 🔊 X

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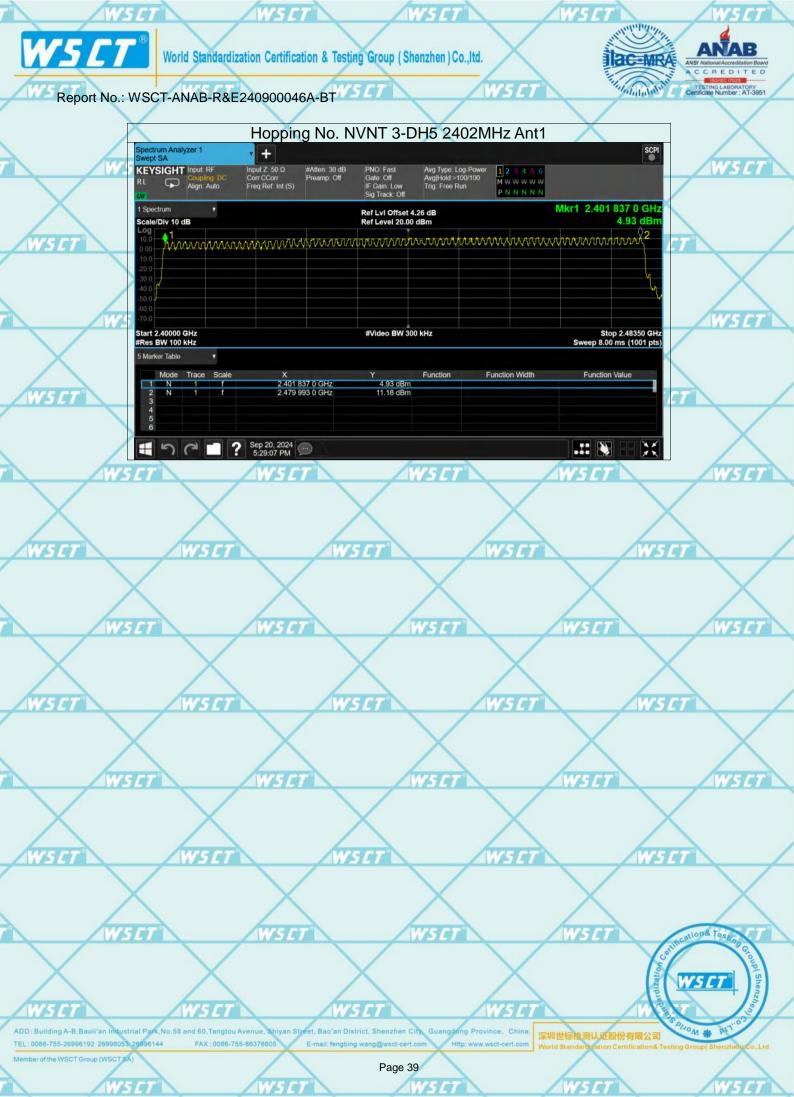
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W5 ET

6.7. Dwell Time

W5ET

W5 CT

W5 ET

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
WSET	Test Method:	ANSI C63.10:2014 W5 [7] W5 [7]	
	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
X	Test Setup:	Spectrum Analyzer EUT	
WSET	Test Mode:	Hopping mode W5.77 W5.77	
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. 	WSCT
	Test Result:	PASS	(M) 3 3 3
	7 11-11-1	Way Way	WELL

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WSET

WSET

WSLT

WSET

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4W5ET

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WSET

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6.7.2. Test Data

	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
	1-DH1	2402	0.406	129.108	318	31600	400	Pass
	1-DH1	2441	0.405	129.195	319	31600	400	Pass
Ì	1-DH1	2480	0.405	128.79	318	31600	400	Pass
	1-DH3	2402	1.661	249.15	150	31600	400	Pass
	1-DH3	2441	1.659	262.122	158	31600	400	Pass
3	1-DH3	2480	1.662	272.568	164	31600	400	Pass
	1-DH5	2402	2.909	299.627	103	31600	400	Pass
	1-DH5	2441	2.909	279.264	96	31600	400	Pass
	1-DH5	2480	2.909	311.263	107	31600	400	Pass

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 x 79) (s), Hops Over Occupancy Time comes to $(1600/2/79) \times (0.4 \times 79) = 320 \text{ hops}$

For DH3, With channel hopping rate (1600 / 4 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 4 / 79) x (0.4 x 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 $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67 \text{ hops}$

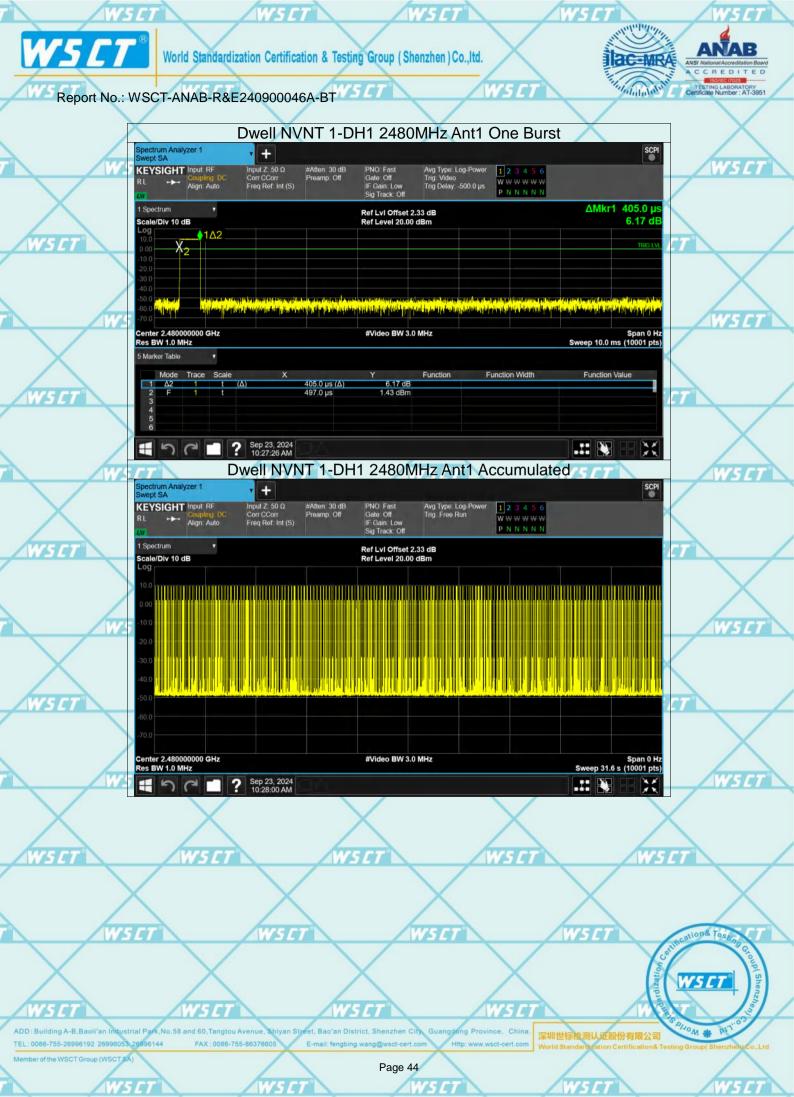
2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

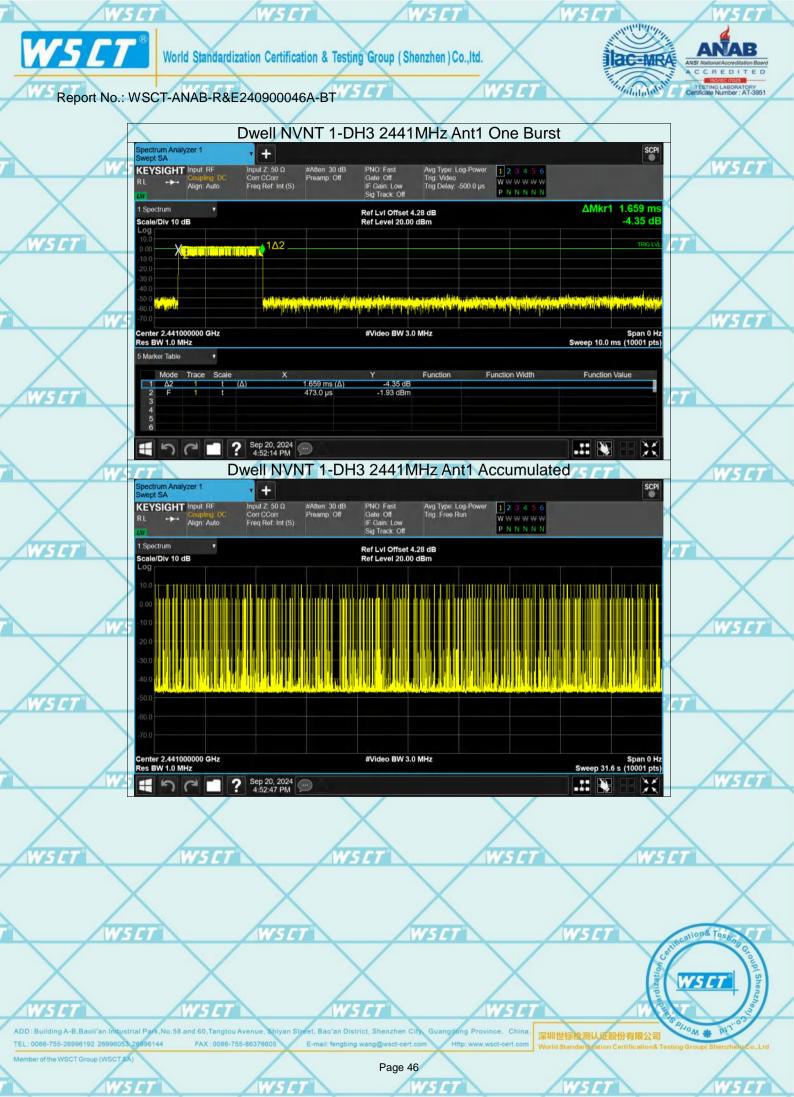
WILL	AW3L/	AW3L/	AW3L/ B	WSLI	
WS	W.	SET V	VSET.	WSET	WSCT
WSCT	WSCT	WSET	WSLT	WSCT	
WS		\times	V5ET	WSET	WSCT
WSCT	WSLT	WSET	WSET	WSET	

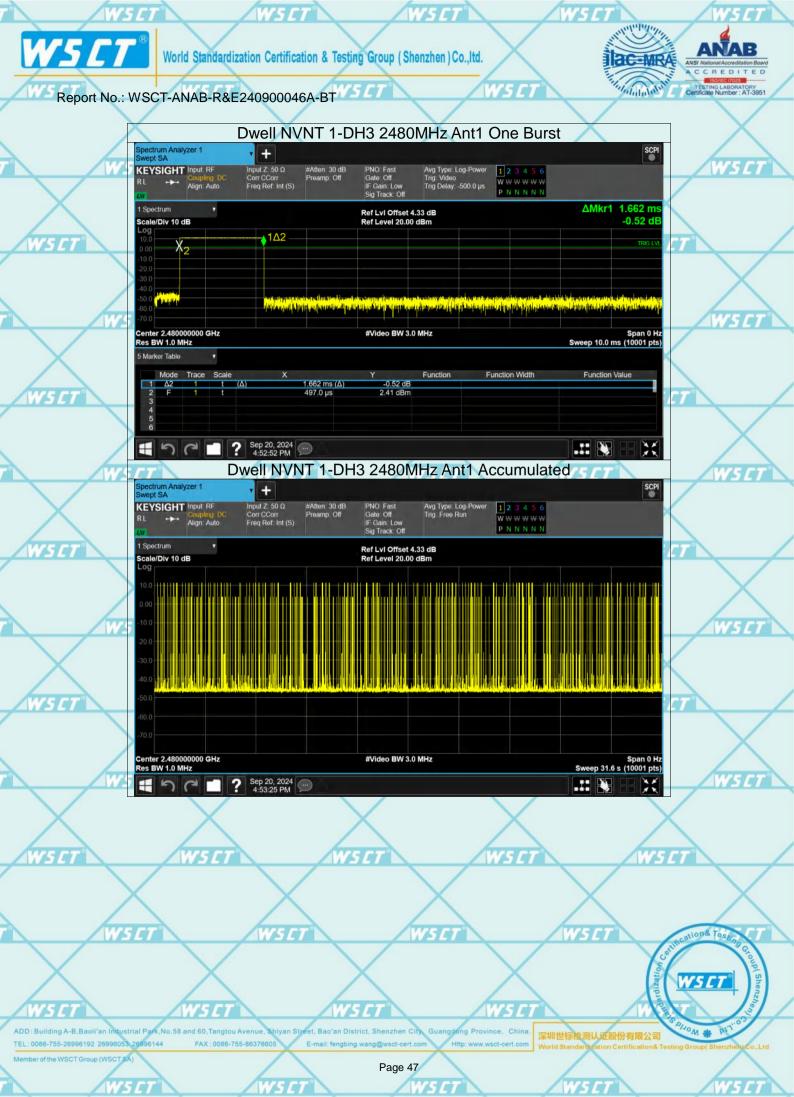




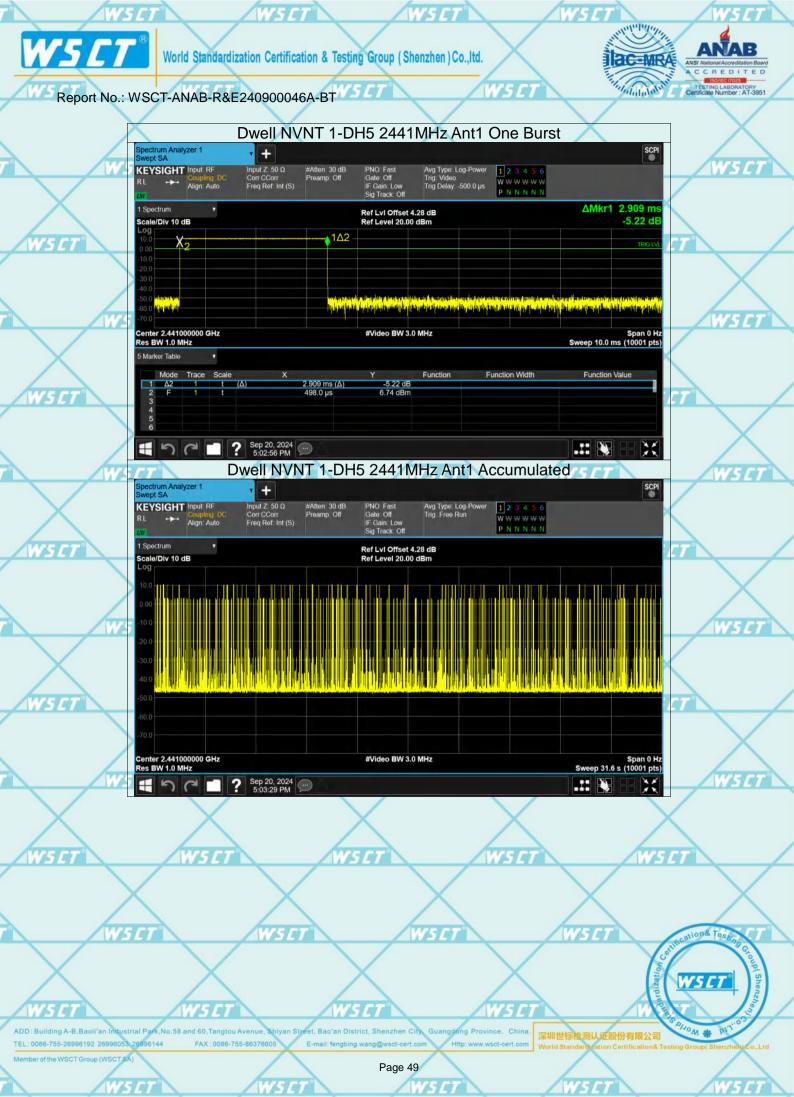




















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6.8. **Pseudorandom Frequency Hopping Sequence**

FCC Part15 C Section 15.247 (a)(1) requirement: Test Requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is

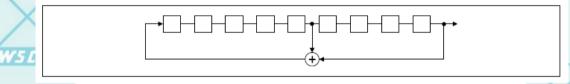
Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

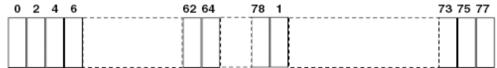
- Number of shift register stages: 9
- Length of pseudo-random sequence: 29-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)

15 C I



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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6.9. Conducted Band Edge Measurement

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	Test Requirement:	FCC Part15 C Section 15.247 (d)	
7	Test Method:	ANSI C63.10:2014 W5 [7] W5 [7]	
7	Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.	WSC
7	Test Setup:	Spectrum Analyzer EUT	\setminus
	Test Mode:	Transmitting mode with modulation	
7	Test Procedure:	 The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report. 	WSE
	Test Result:	PASS	744
-	711713	17779	WSL

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W5 ET

WSET

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6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

Test Requirement:

FCC Part15 C Section 15.247 (d)

ANSI C63.10:2014

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

Spectrum Analyzei

Test Setup:

75 C

Test Mode:

Test Procedure:

Transmitting mode with modulation

- The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014
 Measurement Guidelines
 The RF output of FLIT was connected to the
- 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.

3. Set to the maximum power setting and enable the EUT transmit continuously.

- Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Test Result: PASS

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W5ET

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Radiated Spurious Emission Measurement 6.11.

6.11.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2014
Frequency Range:	9 kHz to 25 GHz
Measurement Distance:	3 m
Antenna Polarization:	Horizontal & Vertical

Receiver Setup:

Frequency	Detector	KBW	VBW	Remark
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
150kHz-	Quasi-peak	9kHz	30kHz	Quasi-peak Value
30MHz		WSIT		WELT
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Ab a a 401 I=	Peak	1MHz	3MHz	Peak Value
Above 1GHz	Peak	1MHz	10Hz	Average Value

W5 E1

WSET WSE	Frequency	Field Strength	Measurement
	Trequency	(microvolts/meter)	Distance (meters)
	0.009-0.490	2400/F(KHz)	300
	0.490-1.705	24000/F(KHz)	30
	1.705-30	30	30
WSET	30-88	100	/35//
	88-216	150	3
Limit:	216-960	200	3

	MARKET POPULATION		
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Above 4CH=	500	3	Average
Above 1GHz	5000	3	Poak

For radiated emissions below 30MHz

	Distance = 3m	Computer
WSET WSET		Pre -Amplifier
Test setup:	EUT	
	Turn table Ground Plane	Receiver

30MHz to 1GHz





Report No.: WSCT-ANAB-R&E240900046A-BT Coaxial cable (1m) Above 1GHz Test Mode: Transmitting mode with modulation The testing follows the guidelines **Spurious** Radiated **Emissions** of **ANSI** C63.10:2014 Measurement Guidelines. For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable

Test Procedure:

(from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final

measurement antenna elevation shall be that which

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Test results:

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WSET WSET	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.	WSCI
	3. Set to the maximum power setting and enable the EUT transmit continuously.	
WSLT	4. Use the following spectrum analyzer settings:	
	(1) Span shall wide enough to fully capture the emission being measured;	$\overline{}$
	(2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz	
WSCT WSCI	for f>1GHz ; VBW≥RBW;	W5CT
	Sweep = auto; Detector function = peak; Trace = max hold for peak	
WSIT	(3) For average measurement: use duty cycle correction factor method per	
	15.35(c). Duty cycle = On time/100 milliseconds	
\times	On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn*Ln	X
WSET WSE	Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.	WSI
	Average Emission Level = Peak Emission Level + 20*log(Duty cycle)	
WSCT	Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level	

	Note 1:	for the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average
		nd peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the
7		verage limit, it is unnecessary to perform an average measurement.

- Note 2: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.
- The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode Note 3: is worst.

PASS

WSE

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W5C

Test Data 6.11.2.

Please refer to following diagram for individual

W5 CI Below 1GHz

Horizontal:



					~ /		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	85.2607	37.74	-23.91	13.83	40.00	-26.17	QP
2 *	116.5912	40.66	-21.74	18.92	43.50	-24.58	QP
3	177.5869	38.11	-21.99	16.12	43.50	-27.38	QP
4	194.7947	41.05	-23.27	17.78	43.50	-25.72	QP
5	285.9778	38.69	-20.74	17.95	46.00	-28.05	QP
6	337.9554	37.82	-19.09	18.73	46.00	-27.27	QP

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W5C1

W5 CI

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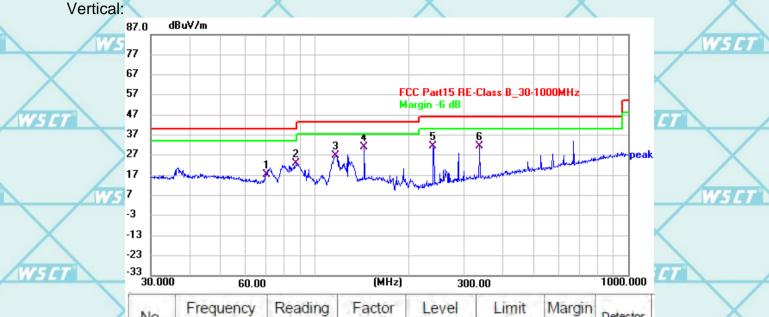
Report No.: WSCT-ANAB-R&E240900046A-BT





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W5CT°



>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
5	1	70.1825	39.79	-22.35	17.44	40.00	-22.56	QP	
	2	87.6095	46.72	-23.95	22.77	40.00	-17.23	QP	
Ì	3	116.9495	48.57	-21.75	26.82	43.50	-16.68	QP	
	4 *	144.0188	51.14	-19.89	31.25	43.50	-12.25	QP	3
	5	239.9873	53.96	-22.59	31.37	46.00	-14.63	QP	
>	6	336.0352	50.84	-19.13	31.71	46.00	-14.29	QP	Ī

Note1:577

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

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)

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DD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

DD: Building A-B,Baoil an Industrial Park,No.58 and 60, langtou Avenue, Stilyan Street, Bao an District, Shenzhen City, Guangdong Province, Chini EL:0086-755-26996192 26996053 26996144 FAX:0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

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WSCT

W5C1





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Above 1GHz

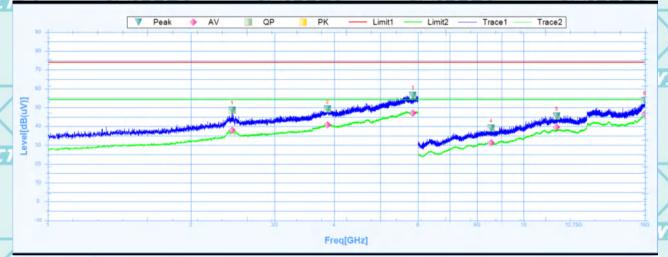
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental

Note 2: The spurious above 18G is noise only, do not show on the report.

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

Low channel: 2402MHz

Horizontal:



Susputed Data List Deg Reading Factor Level Limit Margin NO. Polarity Verdict Trace [MHz] [dB(uV)] [dB] [dB(uV)] [dB] [dB] ["] 2438.7500 48.46 27.39 21.07 74 -25.54 360.1 Horizontal PK Pass 2438.7500 38 27.39 10.61 54 -16 360.1 Horizontal AV Pass 3873.1250 49.14 29.4 19.74 74 -24.86 252.8 PK Horizontal Pass 3873.1250 40.74 29.4 11.34 54 -13.26 252.8 Horizontal AV Pass 3 56.44 32.57 23.87 74 -17.56 0.8 PK 5856.2500 Horizontal Pass 3 5856.2500 47.1 32.57 14.53 54 -6.90.8 Horizontal AV Pass 8551.5000 39 9.28 29.72 74 -35 345.6 Horizontal PK Pass 8551.5000 31.26 9.28 21.98 54 -22.74 345.6 Horizontal AV Pass 11746.5000 45.4 16.11 29.29 74 -28.6 15.3 Horizontal PK Pass 5 11746.5000 39.39 16.11 23.28 54 -14.61 15.3 Horizontal AV Pass 17994.0000 53.64 23.89 29.75 74 -20.36 PK 6 130 Horizontal Pass 17994.0000 46.6 54 23.89 22.71 -7.4 130 Horizontal AV Pass

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W5 CT

Vertical:



WS E

W5 C

Suspi	ited Data Lis	t								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2400.6250	46.17	27.26	18.91	74	-27.83	159.4	Vertical	PK	Pass
1	2400.6250	37.6	27.26	10.34	54	-16.4	159.4	Vertical	AV	Pass
2	3913.1250	49.72	29.49	20.23	74	-24.28	16.6	Vertical	PK	Pass
2	3913.1250	41.29	29.49	11.8	54	-12.71	16.6	Vertical	AV	Pass
3	5740.0000	73.08	32.38	40.7	74	-0.92	276.6	Vertical	PK	Pass
3	5740.0000	47.52	32.38	15.14	54	-6.48	276.6	Vertical	AV	Pass
4	11770.5000	45.59	16.13	29.46	74	-28.41	193.4	Vertical	PK	Pass
4	11770.5000	37.86	16.13	21.73	54	-16.14	193.4	Vertical	AV	Pass
5	14247.0000	49.17	18.87	30.3	74	-24.83	287.8	Vertical	PK	Pass
5	14247.0000	41.59	18.87	22.72	54	-12.41	287.8	Vertical	AV	Pass
6	17953.5000	53.51	23.6	29.91	74	-20.49	354.6	Vertical	PK	Pass
6	17953.5000	46.34	23.6	22.74	54	-7.66	354.6	Vertical	AV	Pass

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W5 ET

W5ET

VS CT





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W5 CT

Middle channel: 2441MHz

Horizontal:



Suspi	ited Data Lis	t								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2401.8750	46.34	27.27	19.07	74	-27.66	83	Horizontal	PK	Pass
1	2401.8750	36.73	27.27	9.46	54	-17.27	83	Horizontal	AV	Pass
2	3933.7500	49.12	29.54	19.58	74	-24.88	231.2	Horizontal	PK	Pass
2	3933.7500	40.28	29.54	10.74	54	-13.72	231.2	Horizontal	AV	Pass
3	5955.6250	56.46	32.73	23.73	74	-17.54	326.9	Horizontal	PK	Pass
3	5955.6250	47.54	32.73	14.81	54	-6.46	326.9	Horizontal	AV	Pass
4	10192.5000	41.61	12.95	28.66	74	-32.39	176.6	Horizontal	PK	Pass
4	10192.5000	34.52	12.95	21.57	54	-19.48	176.6	Horizontal	AV	Pass
5	14322.0000	49.69	18.79	30.9	74	-24.31	343.5	Horizontal	PK	Pass
5	14322.0000	41.64	18.79	22.85	54	-12.36	343.5	Horizontal	AV	Pass
6	17986.5000	52.61	23.83	28.78	74	-21.39	195.7	Horizontal	PK	Pass
6	17986.5000	46.84	23.83	23.01	54	-7.16	195.7	Horizontal	AV	Pass

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深圳世标检测认证股份有限公司
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WSCT





Report No.: WSCT-ANAB-R&E240900046A-BT

W5ET°

Vertical:



WS E1

W5E

Suspu	ited Data Lis	t								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2439.3750	48.71	27.39	21.32	74	-25.29	360.1	Vertical	PK	Pass
1	2439.3750	37.24	27.39	9.85	.54	-16.76	360.1	Vertical	AV	Pass
2	3422.5000	46.3	28.45	17.85	74	-27.7	9.9	Vertical	PK	Pass
2	3422.5000	37.1	28.45	8.65	54	-16.9	9.9	Vertical	AV	Pass
3	5743.7500	69.45	32.39	37.06	74	-4.55	151.1	Vertical	PK	Pass
3	5743.7500	46.8	32.39	14.41	.54	-7.2	151.1	Vertical	AV	Pass
4	8934.0000	39.57	9.8	29.77	74	-34.43	254.3	Vertical	PK	Pass
4	8934.0000	31.85	9.8	22.05	.54	-22.15	254.3	Vertical	AV	Pass
5	11745,0000	46.14	16.11	30.03	74	-27.86	185	Vertical	PK	Pass
5	11745.0000	40.03	16.11	23.92	54	-13.97	185	Vertical	AV	Pass
6	17992.5000	54.03	23.88	30.15	74	-19.97	171.8	Vertical	PK	Pass
6	17992.5000	46.54	23.88	22.66	54	-7.46	171.8	Vertical	AV	Pass

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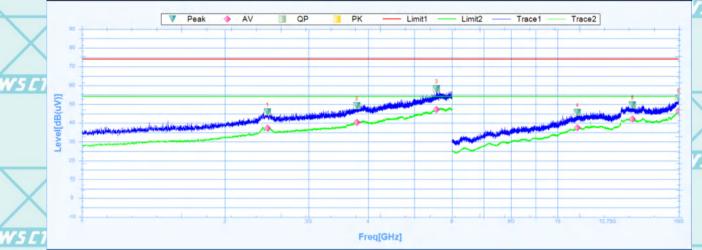


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W5 ET

High channel: 2480MHz

Horizontal:



Suspi	ited Data Lis	t								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2454.3750	45.82	27.44	18.38	74	-28.18	0.4	Horizontal	PK	Pass
1	2454.3750	37.25	27.44	9.81	54	-16.75	0.4	Horizontal	AV	Pass
2	3788.1250	49.12	29.19	19.93	74	-24.88	341	Horizontal	PK	Pass
2	3788.1250	40.42	29.19	11.23	54	-13.58	341	Horizontal	AV	Pass
3	5570.6250	58.21	32.11	26.1	74	-15.79	284.9	Horizontal	PK	Pass
3	5570.6250	47.16	32.11	15.05	54	-6.84	284.9	Horizontal	AV	Pass
4	11013.0000	45.72	15.66	30.06	74	-28.28	211.2	Horizontal	PK	Pass
4	11013.0000	37.4	15.66	21.74	54	-16.6	211.2	Horizontal	AV	Pass
5	14380.5000	49.66	18.74	30.92	74	-24.34	296.1	Horizontal	PK	Pass
5	14380.5000	42.12	18.74	23.38	54	-11.88	296.1	Horizontal	AV	Pass
6	17986.5000	53.22	23.83	29.39	74	-20.78	-0.1	Horizontal	PK	Pass
6	17986.5000	46.61	23.83	22.78	54	-7.39	-0.1	Horizontal	AV	Pass

	6	17986.5000	53.22	23.83	29.39	74	-20.78	-0.1	Horizontal	PK	Pass	
X	6	17986.5000	46.61	23.83	22.78	54	-7.39	-0.1	Horizontal	AV	Pass	
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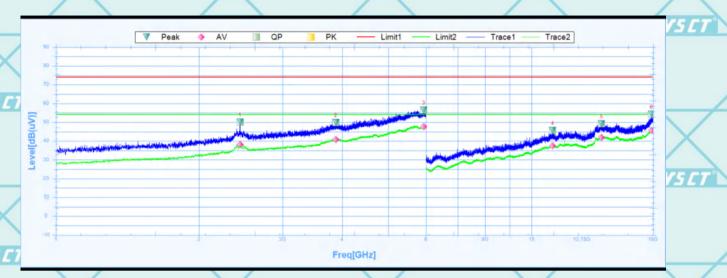






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Vertical:



Susputed Data List.										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2438.1250	50.03	27.39	22.64	74	-23.97	0.6	Vertical	PK	Pass
1	2438.1250	38.09	27.39	10.7	54	-15.91	0.6	Vertical	AV	Pass
2	3877.5000	49.8	29.41	20.39	74	-24.2	329.3	Vertical	PK	Pass
2	3877.5000	40.73	29.41	11.32	54	-13.27	329.3	Vertical	AV	Pass
3	5938.7500	56.47	32.7	23.77	74	-17.53	243.2	Vertical	PK	Pass
3	5938.7500	47.73	32.7	15.03	54	-6.27	243.2	Vertical	AV	Pass
4	11083.5000	45.59	15.88	29.71	74	-28.41	138.3	Vertical	PK	Pass
4	11083.5000	37.55	15.88	21.67	54	-16.45	138.3	Vertical	AV	Pass
5	14037.0000	49.13	19.09	30.04	74	-24.87	-0.1	Vertical	PK	Pass
5	14037.0000	41.87	19.09	22.78	54	-12.13	-0.1	Vertical	AV	Pass
6	17872.5000	54.38	23.09	31.29	74	-19.62	-0.1	Vertical	PK	Pass
6	17872.5000	45.71	23.09	22.62	54	-8.29	-0.1	Vertical	AV	Pass

Note:

- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 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.
- Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.
- 5. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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