



TEST REPORT

FCC ID: 2ADYY-TU01AIR-R

Product: TWS Earphone

Model No.: TU01 Air

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E240800039A-BT

Issued Date: 28 August 2024

Issued for:

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

Issued By:

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

TEL: +86-755-26996192 FAX: +86-755-86376605

W5ET

WSE

WSET

Note: This report shall not be reproduced except in full, without the written approval of World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. This document may be altered or revised by World Standardization Certification Testing Group (Shenzhen) Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

深圳世标检测认证股份有限公司

Page 1 of 74

WS CT

Report No.: WSCT-ANAB-R&E240800039A-BT





TABLE OF CONTENTS

	WSET WSET WSET WSET	7
\/·	Test Certification3	
2.	Test Result Summary 4	
W5 [3.	EUT Description5	
4.	Genera Information7	
	4.1. TEST ENVIRONMENT AND MODE	
	4.2. DESCRIPTION OF SUPPORT UNITS	
5.	Facilities and Accreditations	
	5.1. FACILITIES	
WSET	5.2. ACCREDITATIONS	
	5.3. MEASUREMENT UNCERTAINTY	7
	5.4. MEASUREMENT INSTRUMENTS10	
6.	Test Results and Measurement Data	
	6.1. ANTENNA REQUIREMENT11	
X	6.2. CONDUCTED EMISSION	
WSET	6.3. CONDUCTED OUTPUT POWER	
	6.4. 20DB OCCUPY BANDWIDTH21	7
	6.5. CARRIER FREQUENCIES SEPARATION	
	6.6. HOPPING CHANNEL NUMBER	
	6.7. DWELL TIME	
X	6.8. PSEUDORANDOM FREQUENCY HOPPING SEQUENCE	
WSET	6.9. CONDUCTED BAND EDGE MEASUREMENT	
	6.10. CONDUCTED SPURIOUS EMISSION MEASUREMENT	7
	6.11. RADIATED SPURIOUS EMISSION MEASUREMENT	
	WSET WSET WSET WSET	1
/	The state of the s	
X	\times \times \times \times	
MI 3 3 3	WSET WSET WSET WSET	
WSET	WSET WSET WSET WSET	7

WSET

W5 CT

WSET

WSET



W5 C

WSET

WSET.

DD: Building A-B,Baoll'an Industrial Park,No.58 and 60, Tangtou Avenue, Shlyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chin EL: 0088-755-26996192 26998053 26996144 FAX: 0088-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司

ing Group(Shenzhen) Co.,Ltd





Report No.: WSCT-ANAB-R&E240800039A-BT

1. **Test Certification**

TWS Earphone Product:

Model No.: TU01 Air

TECNO Trade Mark:

TECNO MOBILE LIMITED Applicant:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

19-25 SHAN MEI STREET FOTAN NT HONGKONG

TECNO MOBILE LIMITED Manufacturer:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

WSET

19-25 SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 15 August 2024 to 28 August 2024

Applicable FCC CFR Title 47 Part 15 Subpart C Section 15.247 Standards:

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.

Tested By:

(Wang Xiang)

WSCT

Checked By:

Chan &

(Chen Xu)

W5 CI

Approved By:

(Li Huaibi)

WSCT

WSET

WSET

W5 C1

WST

Page 3 of 74

深圳世标检测认证股份有限公司

WSET







WSET

NS E

WSEI

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

Report No.: WSCT-ANAB-R&E240800039A-BT

Test Result Summary 2.

	The second second			7
1	Requirement	CFR 47 Section	Result	A
	Antenna Requirement	§15.203/§15.247 (c)	PASS	
A	AC Power Line Conducted Emission	\\ \begin{align*} \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \text{ \qqq \	NA NA	-
_	Conducted Peak Output Power	§15.247 (b)(1) §2.1046	PASS	1
	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)	W5 PASS	5
	Dwell Time	§15.247 (a)(1)	PASS	
	Radiated Emission	§15.205/§15.209 §2.1053, §2.1057	PASS 511	
	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.

WS ET WS ET W5 CT W5E

Page 4 of 74

Mahalala



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

WSET Report No.: WSCT-ANAB-R&E240800039A-BT

EUT Description 3.

			/
	Product Name:	TWS Earphone ws	V5 ET
\times	Model:	TU01 Air	
WSET	Trade Mark:	TECNO	,
	Operation Frequency:	2402MHz~2480MHz	
	Channel Separation:	1MHz	\times
	Number of Channel:	797 WSCT WSCT	VSET
\times	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK	
WSET	Modulation Technology:	FHSS WSET WSET WSET	
	Antenna Type:	PIFA Antenna	X
	Antenna Gain:	-0.78dBi	VSET
WSEI		Rechargeable Li-ion Battery: 14340SK Rated Capacity: 840mAh Nominal Voltage: 3.87V Rated Energy:3.26Wh	
	Operating Voltage	Limited Charge Voltage: 4.45V Rechargeable Li-ion Battery: CP1154AA Nominal Voltage: 3.70V Rated Energy: 0.204Wh Rated Capacity: 55mAh	WSLT
X	Remark:	Limited Charge Voltage: 4.20V N/A.	
LACE FT	iii a a a a a a a a a a a a a a a a a a		

W5E1 WS ET W5 C1 WSE

WSET W5 ET W5 ET W5E1

Page 5 of 74

W5 ET

W5 ET





Report No.: WSCT-ANAB-R&E240800039A-BT

W5 ET

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

						•		
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	MO5 [7	2402MHz	1 20 1	2422MHz	40	2442MHz	605	2462MHz
	1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	X		X		X		X	
	18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
_	∠ ₩19 <i>⊑</i> 7	2421MHz	4/39 67	2441MHz	59 5	2461MHz	W5E	7 -
	Domark	Channal 0 2	0 9 70 ha	va boon too	tod for C		JDCK OF	DDCK

Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK

modula	ation mode.	X	X	X	
WSET	WSET	WSET	WSET	WSET	
				\times	X
WS	CT W.5	ET WS	CT W	SET	WSET
WSET	WSET	WSET	WSET	WSCT	
WS	$\langle \hspace{0.1cm} \rangle$	$\langle \ \ \rangle$		SET	WSET
WSET	WSET	WSET	WSET	WSET	
WS		$\langle \hspace{0.1cm} \rangle$		SIT	WSET
WSET	WSET	WSET	WSET	WSCT	
WS		$\langle \hspace{0.1cm} \rangle$		\times	Tests
WSET	WSET	WSET	WSET	WS.	Testing Group (Shenzhen)
				A PHONE	17.03

VSET

Page 6 of 74

WS CT WS CT







Report No.: WSCT-ANAB-R&E240800039A-BT

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	

Test Mode:

Engineering mode:

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

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

4.2. 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.

1	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	XCU32	/	1	/

Note:

- 1. 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.

WSET WSET WSET

Shear Salan A Para Salan A Pa

WSET

WSET

W5 E7

D: Building A-B, Baoll'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chi L: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Hittp: www.wsct-cert.c





Report No.: WSCT-ANAB-R&E240800039A-BT

IW5 CT"

5. Facilities and Accreditations

5.1. Facilities

WS CT WS CT

WSET

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

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

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

WSET	WSET	WS	T W	ISET	WSET
WSCT	WSCT	WSGT	WSCT	WSET	
WSET				VSIT.	WSET
WSCT	WSET	WSET	WSET	WSET	
WSET	\times	\rangle		VSET	WSET
WSET	WSCT	WSET	WSET	WSET	
WSET		$\langle \ \rangle$		\times	one task
WSCT	WSET	WSET	WSET	A Contraction of the contraction	ona Testing Group (Shenzhen)

Page 8 of 74



Report No.: WSCT-ANAB-R&E240800039A-BT

W5 CT

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 %.

		ites of dipproximitations for		_
WSET	No.	Item	MU	
	1	Conducted Emission Test	±3.2dB	\setminus
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	W5 C
X	4	All emissions, radiated(<1GHz)	±4.7dB	
WSET	5	All emissions, radiated(>1GHz)	±4.7dB/5/7	
	6	Temperature	±0.5°C	X
	7	Humidity	±2.0%	W/4

WSET	WSET	WSCT	WSET	WSET	
	$\langle \hspace{0.1cm} \rangle$	<)	X	WSET	WSET
WSCI	WSLI	WSET	WSET	WSET	
	WS WS	<i>E7</i> M	VSIII	WSET	WSET
WSCT	WSLT	WSET	WSET	WSET	
			VSCT .	X	na testino co
				(gen)	Scral

W5 CT

ac-MRA



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

Report No.: WSCT-ANAB-R&E240800039A-BT

5.4. MEASUREMENT INSTRUMENTS

3.4. WEASONEWENT INSTRUMENTS						L,	
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	5
(Test software		EZ-EMC	CON-03A	-	Χ-	
7	Test software	- /	MTS8310	WST	- /	15.57	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	Z
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	47
<	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
7	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	
	Pre Amplifier	H.P. T	HP8447E	2945A02715	11/05/2023	11/04/2024	75
	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
7	9*6*6 Anechoic	ET V	ISET .	WSET	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	\rangle
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	75
,	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	
7	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	7
	Loop Antenna	EMCO	6502W57	00042960	11/05/2023	11/04/2024	75
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	
4	Power sensor	Anritsu	MX248XD	WSET	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	>

Page 10 of 74







Report No.: WSCT-ANAB-R&E240800039A-BT

Test Results and Measurement Data 6.

6.1. Antenna requirement

WSET

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 PIFA Antenna. it meets the standards, and the best case gain of the antenna is -0.78dBi.

Please refer to the attachment "TU01 Air(R) Internal Photo" for the antenna location

Page 11 of 74



WSET

WS E1

W5 CT

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





Report No.: WSCT-ANAB-R&E240800039A-BT

Conducted Emission 6.2.

W5 CT

/	6.2.1. Test Specification 5	T WSET WSET	W5 E
	Test Requirement:	FCC Part15 C Section 15.207	
	Test Method: 577	ANSI C63.10:2014 W5_T W5_T	
	Frequency Range:	150 kHz to 30 MHz	\times
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	WSI
	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	
	X	Reference Plane	X
	WSET WSE	40cm 80cm LISN Filter AC power	WSL
	Test Setup:	Test table/Insulation plane Remark	\times
	WSET WSE	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	WSL
	Test Mode:	Refer to item 4.1	
	WSET WSE	 The E.U.T is connected to an adapter 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 	\times
	Test Procedure:	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).	
	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	X
		ANSI C63.10:2014 on conducted measurement	, ci

W5 CT

Test Result:

NA







Report No.: WSCT-ANAB-R&E240800039A-BT

Well

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 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.

Test data:

Note: EUT is powered by batteries and cannot transmit normally while charging. This project does not require testing

WSET	WSCT	WSET	WSET	WSET
Wist	$\langle \hspace{0.1cm} \rangle$	$\langle \rangle$	$\langle \rangle$	\times
WSCT	WSET	WSCT	WSET	WSCT
WSL	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \hspace{0.1cm}$	$\langle \rangle$	\times
WSET	WSCT	WSGT	WSET	WSGT
WSI	$\langle \hspace{0.1cm} \rangle$	$\langle \rangle$	$\langle \hspace{0.1cm} \rangle$	(
WSGT	WSET	WSGT	WSET	WSCT
Wist	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	$\langle \rangle$	$\langle \rangle$	
WSGT	WSET	WSGT	WSET	WSC7 WSC7
ADD Building A B Bacilian Infrastrial	Day No 58 and 50 Touriou August Shires	Start Basins District Shooshes City Course	Mar Browinson China	Sp 140 11 1000

Page 13 of 74



W5ET

WS ET

W5 ET

W5 C1

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



W5 CT

WSET



WSEI

Report No.: WSCT-ANAB-R&E240800039A-BT

Conducted Output Power 6.3.

6.3.1. Test Specification

	X	X X X	•
1	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.	WS
7	Test Setup:	Spectrum Analyzer EUT	W/S
	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.	WS
	Test Result:	PASS	2
			FITTI

W5 ET

WSET WSET W5 ET W5E1

W5CT

Page 14 of 74

W5 CT

ANAB
ANSI National Accreditation Board

W5 ET

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

Report No.: WSCT-ANAB-R&E240800039A-BT

No.. WSC1-ANAD-R&E240000039A-D1

6.3.2. Test Data

W5 ET

WS E1

W5 CI

	GFSK mode						
	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
1	Lowest	6.50	20.97	PASS			
II.	Middle	6.67	20.97	PASS			
	Highest	6.39	20.97	PASS			

Pi/4DQPSK mode					
channel	Peak Output Power (dBm)	Limit (dBm)	Result		
west	6.915	20.97	PASS 77		
iddle	6.95	20.97	PASS		
ghest	6.69	20.97	PASS		
	channel owest iddle ghest	channel Peak Output Power (dBm) owest 6.915	channel Peak Output Power (dBm) Limit (dBm) owest 6.91 20.97 iddle 6.95 20.97		

_						
	8DPSK mode					
1	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
	Lowest	6.88	20.97	PASS		
	Middle	6.94	20.97	PASS		
	Highest	W5 6.65	20.97	PASS		

Test plots as follows:

WSET WSET	WSCT	WSET	WSET
			\setminus
WSET	WSET	CT W5	CT WS CT

WSET WSET WSET

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

深圳世标检测认证股份有限公司 World Standard ration Certification& Tes

Norld Standard ration Certification& Testing Grou

fember of the WSCT Group (WSCT SA)

WSET

Page 15 of 74

WSCT WSL







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. TEL: 0086-755-26996192 26998053 26996144 FAX: 0086-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard Lation Certifications Testing Group! Shenzhen Co.,Ltd





W5 CI



Report No.: WSCT-ANAB-R&E240800039A-BT





深圳世标检测认证股份有限公司
World Standards Internation Certification & Testing Group! Shenzhen Co., Ltd

ation& Tes

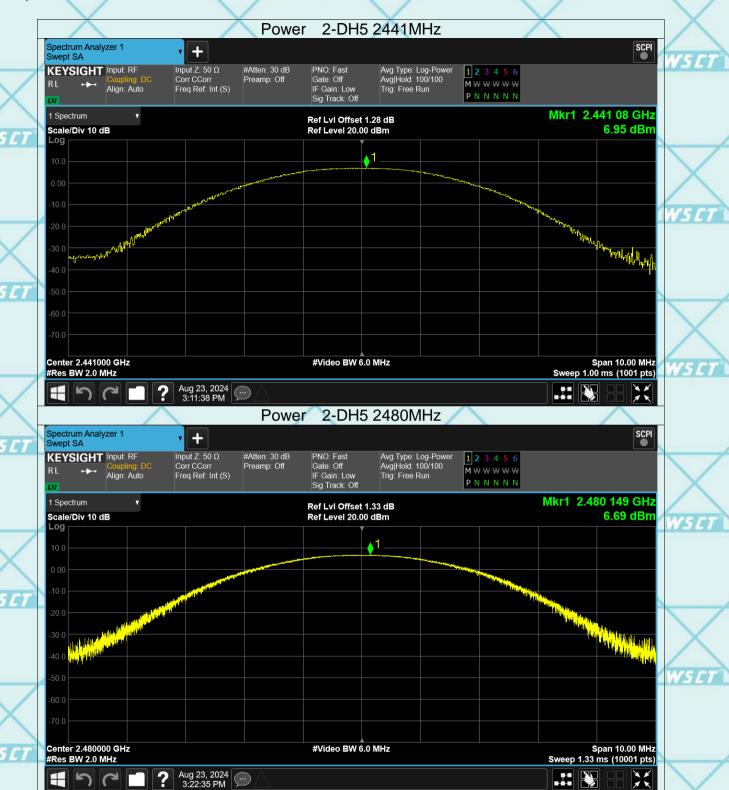




W5 CT



Report No.: WSCT-ANAB-R&E240800039A-BT









W5 CI



Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. TEL: 0086-755-26996192 26998053 26996144 FAX: 0086-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard Fation Certification & Testing Group(Shenzhen) Co.,Ltd

ation& Tes















Report No.: WSCT-ANAB-R&E240800039A-BT

20dB Occupy Bandwidth 6.4.

W5E7

W5 CT

W5 LT

W5 ET

6.4.1. Test Specification

			•
West and	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
ZVEIGE	Test Method:	ANSI C63.10:2014	
	Limit:	N/A	\wedge
X	Test Setup:	Spectrum Analyzer EUT	WSET
WSET	Test Mode:	Transmitting mode with modulation	
WSET	Test Procedure:	 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. 4. Use the following spectrum analyzer settings for 20dB 	WSCT
WSET		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. 5. Measure and record the results in the test report.	WSET
	Test Result:	PASS	X
	(many)		Array Control

W5ET W5 ET W5 ET W5E1

Page 21 of 74





Report No.: WSCT-ANAB-R&E240800039A-BT

W5 CT

6.4.2. Test data

Test channel	-20	dB Occupy Band	dwidth (MHz	2)
rest channel	GFSK	π/4-DQPSK	8DPSK	Conclusion
Lowest	1.089W5	1.386	1.360	PASS//5
Middle	1.045	1.402	1.340	PASS
Highest	1.027	1.376	1.351	PASS

W5 CT W5 CT W5 CT W5 CT W5 CT

WSET WSET WSET WSET

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSET WSET WSET WSET

WSCT WSCT WSCT WSCT

WSET WSET WSET WSET WSET

WSET WSET WSET WSET

WSET WSET WSET WSET

WSCT WSCT WSCT

ADD: Building A-B, Baoli an industrial Park, No.5e and 60, Tangtou Avenue. Shiyan Street, Bao an District, Shenzhen City, Guangdong Province. China. TEL: 0086-755-26996192. 26996053. 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

/ang@wsct-cert.com Http://www.wsct-cert.com World Standards attion Certification & Testing Group(Shenzhen) Co., I

Page 22 of 74

WSET

W5CT

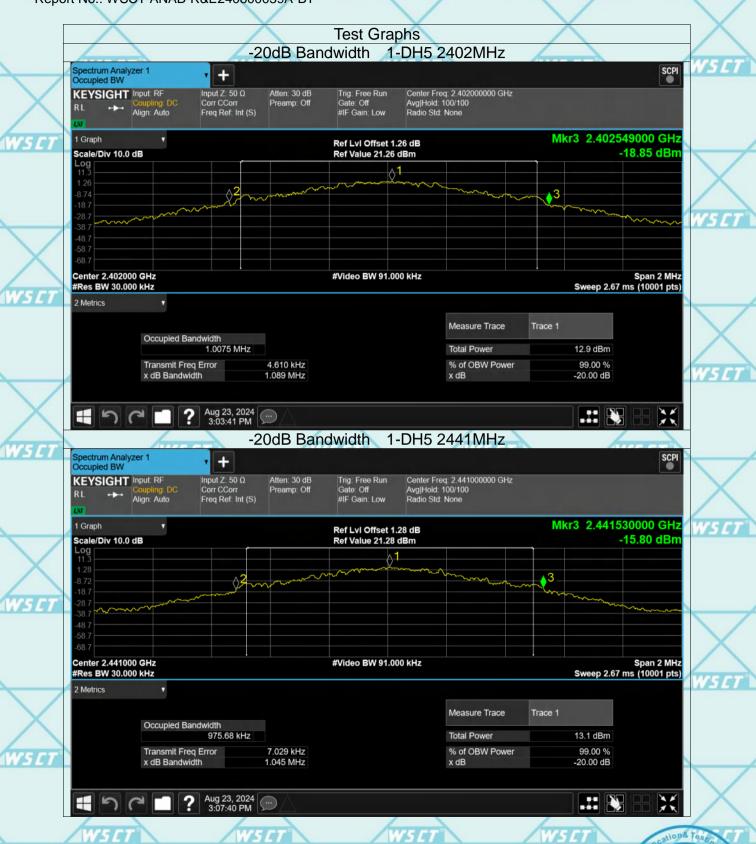




WSCI



Report No.: WSCT-ANAB-R&E240800039A-BT



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

TEL: 0086-755-26996192 26998053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standards fation Certification & Testing Group(Shenzhen) Co.







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoli'an Industrial Park, No.58 and 69, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.
TEL: 0086-755-26996192 26998053 26998144 FAX: 0086-755-88378605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard Fation Certifications Testing Group: Shenzhen, Co., Ltd.







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605

Page 25 of 74







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605

Page 26 of 74





CREDITED





W5 CT

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



W5 CT



Report No.: WSCT-ANAB-R&E240800039A-BT

Carrier Frequencies Separation 6.5.

6.5.1. Test Specification

6.5.1. Test Specification	PIGE VIEIGE	UEIT
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2014 W5 [7] 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.	WSG
Test Setup:	Spectrum Analyzer EUT W5[7]	
Test Mode:	Hopping mode	
	 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. 	WSIG
Test Procedure:	5. Use the following spectrum analyzer settings:	\ /

Toet Posult:	DASS
	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. 6. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
	Span = wide enough to capture the peaks of two adjacent

		WSET	W-5-5-7	WSET	WFF	W-1-1
	X	X	X		X	X
1		(max)	(m)			
	WSLI	W-7-1-1	WSL	7 W		V5L/

Page 28 of 74



W5 CT

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

Report No.: WSCT-ANAB-R&E240800039A-BT

WSET



6.5.2. Test data

	WETT		Z-7-7-1			
*	GFSK mode					
	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result		
	Lowest	0.958	0.726	PASS		
	Middle	0.988	0.697	PASS		
	Highest	1.004	0.685	PASS		

	Pi/4 DQPSK mode				
0	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result	
	Lowest	1.162	0.924	PASS	
	Middle	1.158	0.935	PASS	
Highest		W5CT 1.146	0.917	5 CT PASS	

		8DPSK m	ode		
	Test channel Carrier Frequencies Separation (MHz)		Limit (MHz)	Result	
Lowest Middle		1.002	0.907	PASS	
		1.010	0.893	PASS	
,	Highest	1.010	0.901	PASS	

WSET N	WSL	T WS	7-7 W	7-7-1 W.F	74/
	X	X	\sim	X	X
	WSET	WSET	WSET	WSCT	WSCT
	1177	11713			

WSIT	WSTT	WSET	WSIT	WSET

MICHT	WSET	WELT	METT
AVILI BOOK		/ 1/2/3/	

Page 29 of 74







Report No.: WSCT-ANAB-R&E240800039A-BT



TEL: 0086-755-26996192 26998053 26998144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com Web Wood Group (WSCT-SA)

Shiyan Street, Bao'an District, Shenzhen City, Gua

深圳世标检测认证股份有限公司
World Standard Cation Certifications Testing Group(Shenzh

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue,





WSET



Report No.: WSCT-ANAB-R&E240800039A-BT



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

深圳世标检测认证股份有限公司 World Standard Station Certification & Testing Group(Shenzhen) Co.,Ltd

W5 C1

Page 31 of 74

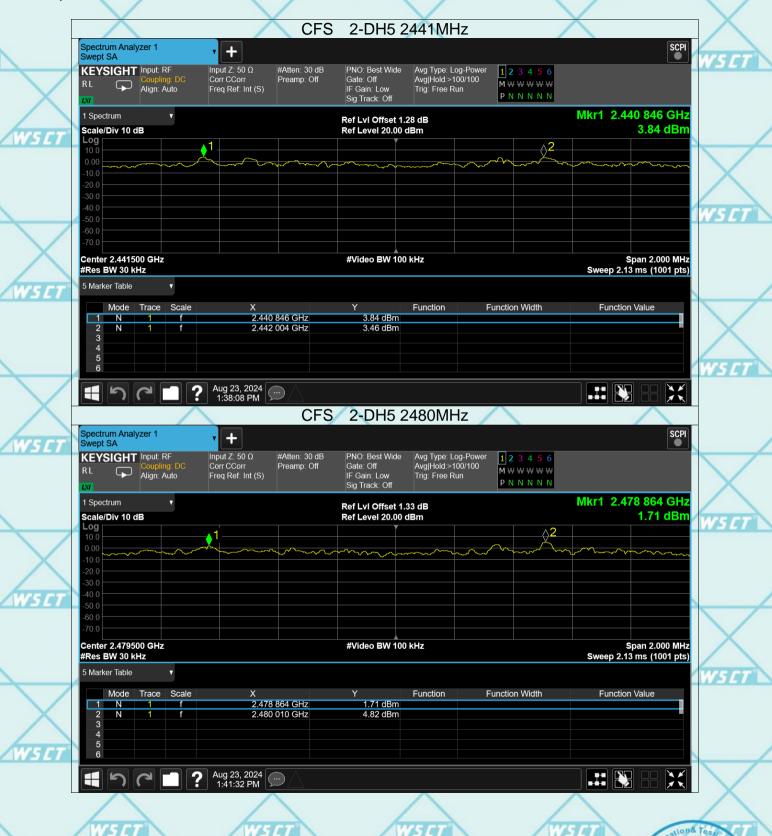




W5 CT



Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605

10M #

Page 32 of 74

W5 C1



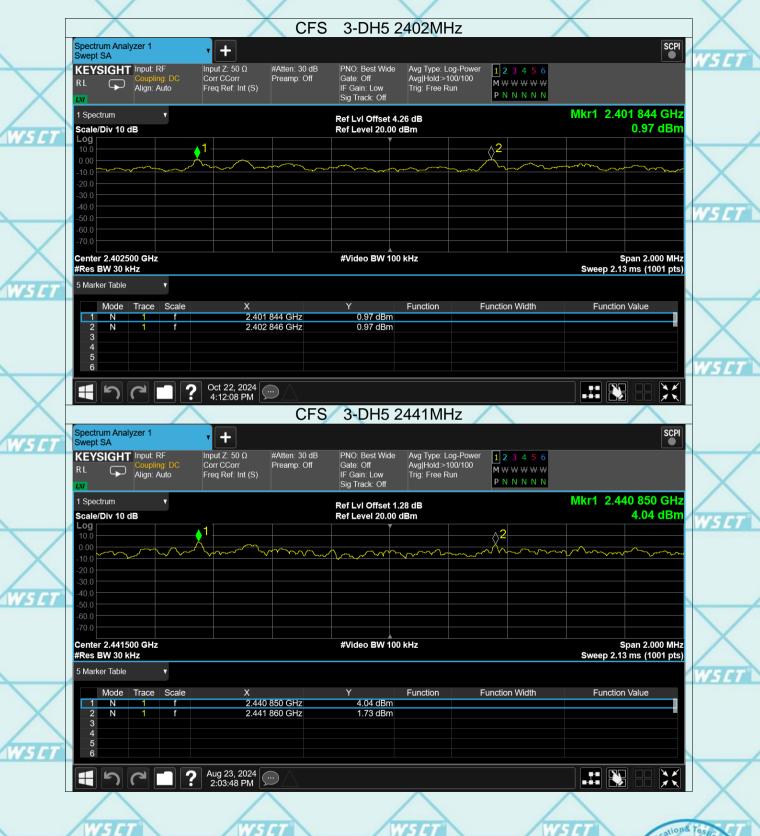


WSET

ANSI National Accreditation Board
A C C R E D I T E D

EQUIENCE POSS
TESTING LABORATORY

Report No.: WSCT-ANAB-R&E240800039A-BT



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

TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard ration Certifications Testing Group(Shenzhen) Co.,Lt

W5 C1





W5E











Report No.: WSCT-ANAB-R&E240800039A-BT

W5CT"

6.6. Hopping Channel Number

WSET

W5LT

W5 ET

6.6.1. Test Specification

WSET	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.	\triangle
WSET	Test Setup:	Spectrum Analyzer EUT	WSET
	Test Mode:	Hopping mode	
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 = 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. The number of hopping frequency used is defined as 	
	Test Result:	the number of total channel. 7. Record the measurement data in report. PASS	X
	WE14	TIPITAL TIPITAL	WSLI

AWS LT

W5ET

WSET

W5 ET

WELT

WSET

WSET

WSET

WSET

WSET

WSIT

METT

WELTT

4WSET

D: Building A-B,Baoll'an Intustrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Ch L: 0086-755-26996192 26996053 28996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com 深圳世标检測认証股份有限公司 *** かい

Member of the WSCT Group (WSCT SA)

Page 35 of 74

WSCT







Report No.: WSCT-ANAB-R&E240800039A-BT

W5CT

6.6.2. Test data

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

Test plots as follows: W5 CT WSET W5 ET W5 CT W5 ET W5CI WS ET W5E1 WS CT WS CT W5 ET WSET WS ET W5E7 WS ET W5E WSE

WS ET WS ET W5 CT W5 ET

W5CT

Page 36 of 74

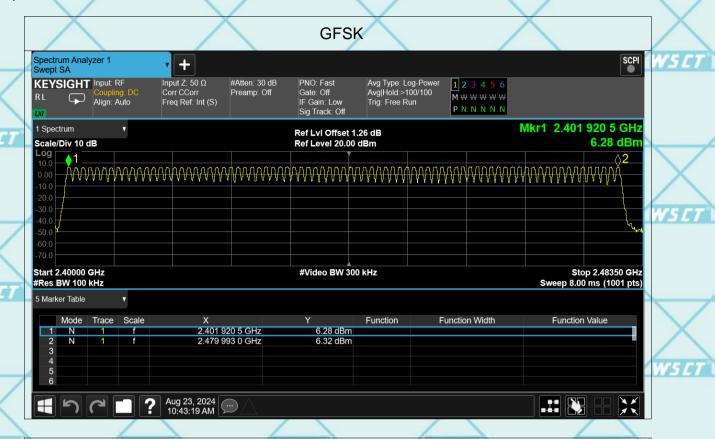
W5 ET

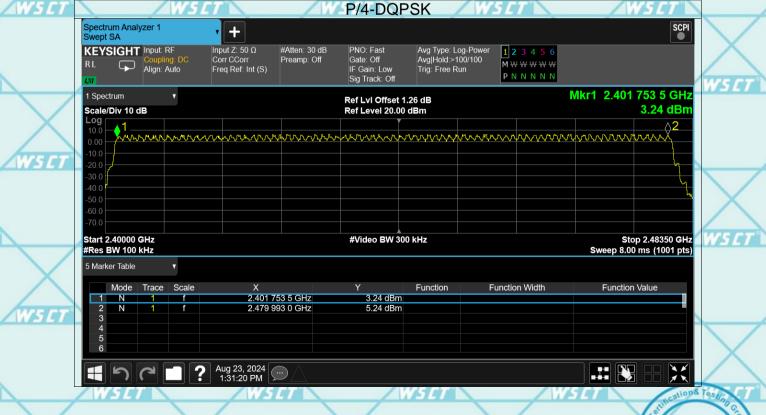






Report No.: WSCT-ANAB-R&E240800039A-BT





ADD: Building A-B,Baoll'an Industrial Park,No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. TEL: 0088-755-26996192-26996053-26996144 FAX: 0088-755-86378605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard ration Certification & Testing Group(Shenzhen)

Page 37 of 74

WSET

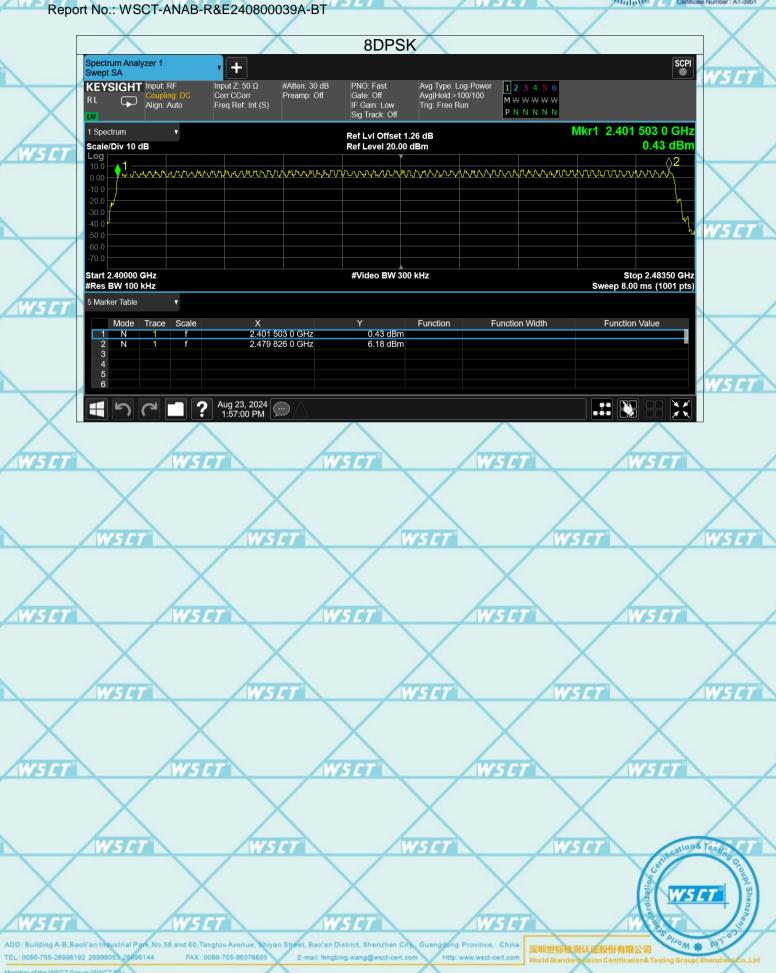
CT WSCT







Report No.: WSCT-ANAB-R&E240800039A-BT



Page 38 of 74

W5E







Report No.: WSCT-ANAB-R&E240800039A-BT

6.7. **Dwell Time**

6.7.1. Test Specification

WS ET

W5 CT

W5 ET

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
WSLT	Test Method:	ANSI C63.10:2014 W5 [T] W5 [T]	
	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.	VSET
X	Test Setup:	Spectrum Analyzer EUT	
WSET	Test Mode:	Hopping mode W5 [T] W5 [T]	
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	
	17574	Wall	NSLT

W5ET

W5 ET

W5 ET

W5 E1

Page 39 of 74





Report No.: WSCT-ANAB-R&E240800039A-BT

6.7.2. Test Data

Total Dwell Time Frequency Burst **Period Time** Limit Verdict Mode **Pulse Time** (MHz) (ms) (ms) Count (ms) (ms) 1-DH1 2402 0.372 186.372 501 31600 400 Pass 2441 1-DH1 400 Pass 0.37 117.29 317 31600 1-DH1 2480 0.372 118.296 318 31600 400 Pass 1-DH3 2402 1.627 314.011 193 31600 400 **Pass** 1-DH3 2441 1.628 257.224 158 31600 400 Pass 1-DH3 2480 1.627 250.558 154 31600 400 Pass 1-DH5 2402 2.887 326.231 113 31600 400 **Pass** 400 Pass 1-DH5 2441 2.875 304.75 106 31600 400 1-DH5 2480 2.877 304.962 106 31600 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) x (0.4 x 79) = 320 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 $(1600 / 4 / 79) \times (0.4 \times 79) = 160 \text{ hops}$

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

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

Test plots as follows:

WSE WSE

Page 40 of 74

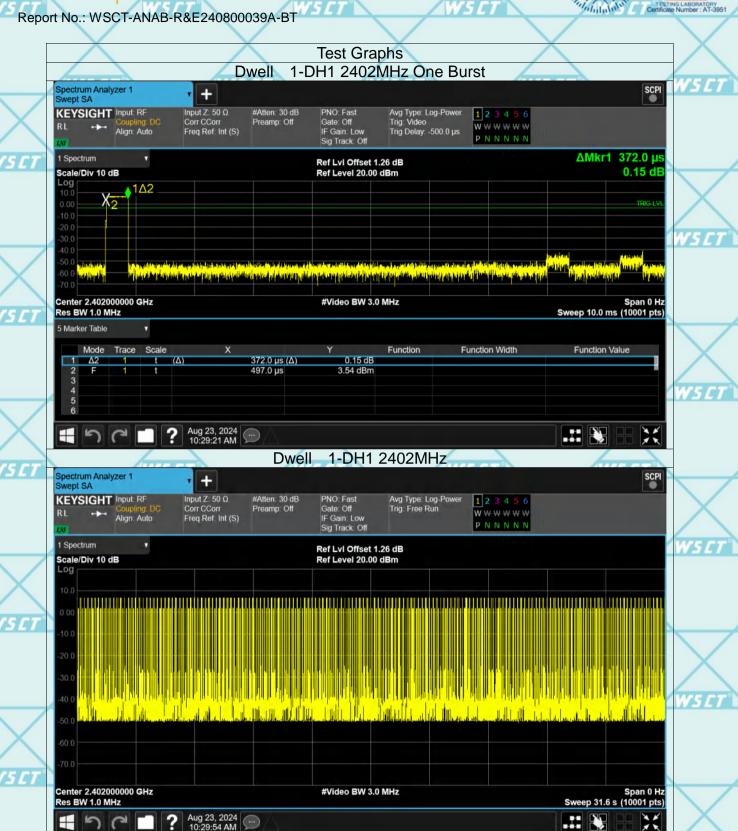
ion& Tes







Report No.: WSCT-ANAB-R&E240800039A-BT





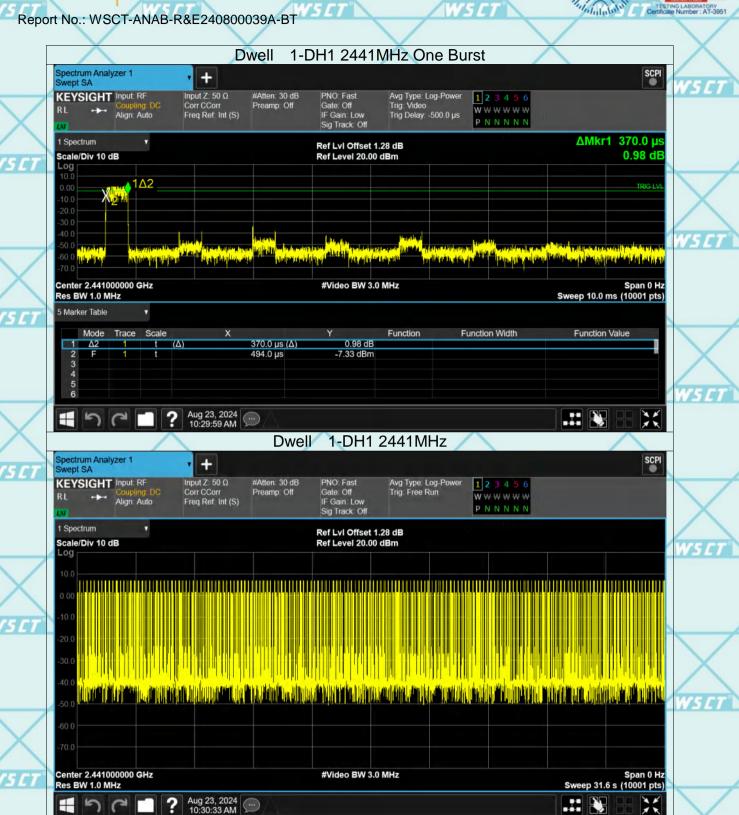
Page 41 of 74







Report No.: WSCT-ANAB-R&E240800039A-BT





tion& Tes

W5 C1





W5 CI



Report No.: WSCT-ANAB-R&E240800039A-BT



ng A-B,Baoli'an Industrial Park,No.58 a FAX:0086-755-8637660

Page 43 of 74

W5 C1



W5CT



W5 CI



Report No.: WSCT-ANAB-R&E240800039A-BT



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

L: 0086-755-26996192-26996053-26996144 FAX: 0086-755-88378605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司 World Standard ration Certification& Testing Group(Shenzhen) Co.,Ltd



W5 CT



W5 CI



Report No.: WSCT-ANAB-R&E240800039A-BT



ing A-B,Baoli'an Industrial Park,No.58 ar TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376608

Page 45 of 74

W5 C1



W5 CT



W5 CI

ANSI National Accreditation Board
A C C R E D I T E D

SOUSCEROSS
TESTING LABORATORY

Report No.: WSCT-ANAB-R&E240800039A-BT



DD: Building A-B,Baoli'an Industrial Park,No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. EL: 0086-755-26996192 26996053 28996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard ration Certification& Testing Group(Shenzhen) Co.,Lt

Page 46 of 74

WSET

ET

WSE

VSCT



WSCT"



W5 CI



Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoll'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard ration Certification & Testing Group(Shenzhen) Co.,Lt

Page 47 of 74

WSET

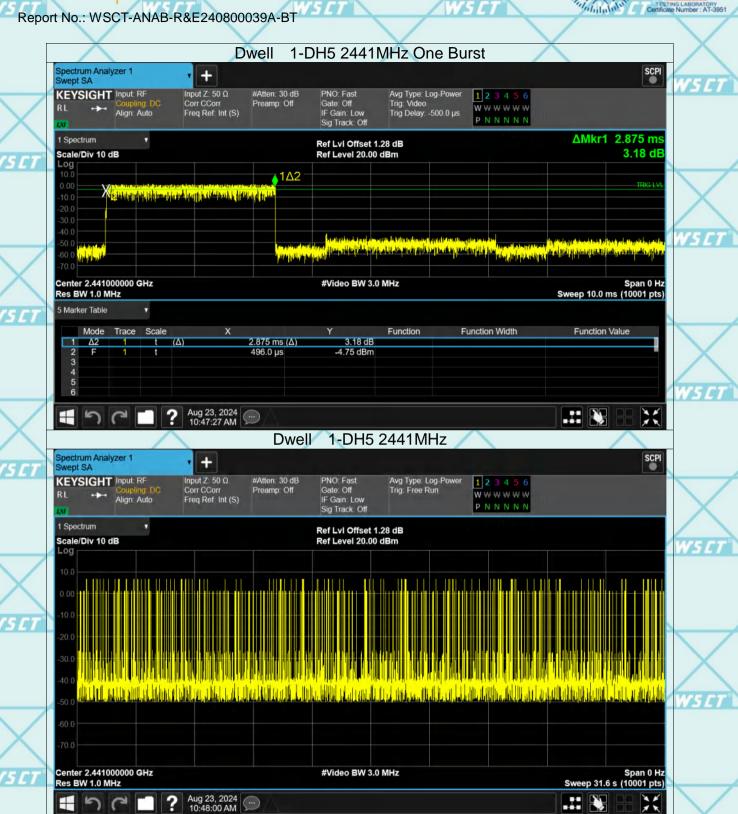
WSET







Report No.: WSCT-ANAB-R&E240800039A-BT





ation& Tes

Ш

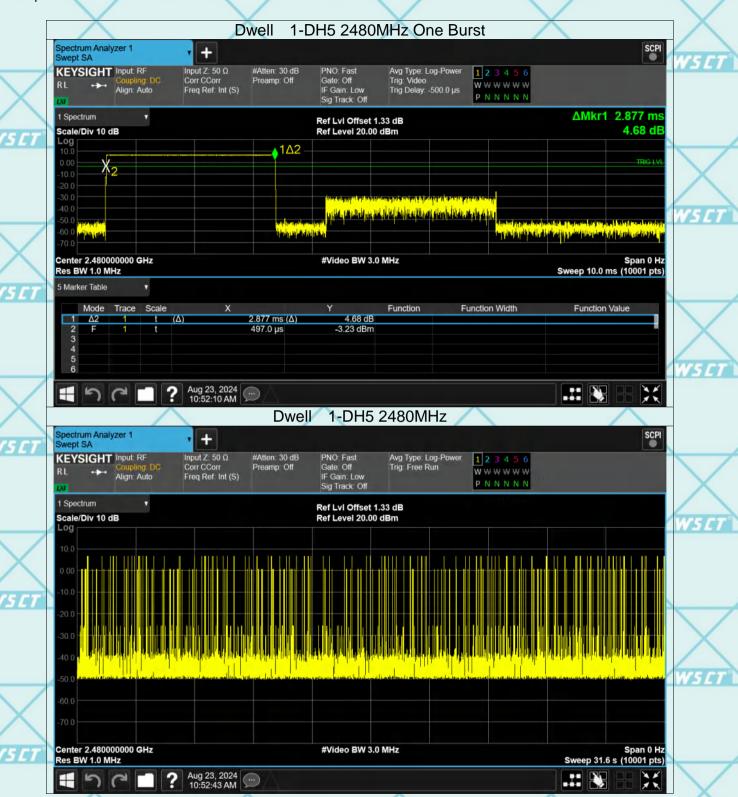




W5 CI



Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoll'an Industrial Park, No.58 and 60, Tangtou Avenue, Shlyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Hitp: www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard Entire Certification & Testing Group(Shenzhen) Co., Ltd

ation& Tes

Page 49 of 74







Report No.: WSCT-ANAB-R&E240800039A-BT

6.8. Pseudorandom Frequency Hopping Sequence

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

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)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

0 2 4 6 62 64 78 1 73 75 77

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.

W5 ET

W5

WSET

WSET

WSET

WSCT WSCT WSCT

WSET

W557

AWS LI

DD: Building A-B,Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chi EL: 0086-755-26996192 26996053 29996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.c

深圳世标检测认证股份有限公司
World Standard atton Certification & Testing Groupt Shenzhel

fember of the WSCT Group (WSCT SA)

Page 50 of 74

SET

WSET







Report No.: WSCT-ANAB-R&E240800039A-BT

6.9. Conducted Band Edge Measurement

6.9.1. Test Specification 5

WSET

WSET

W5ET

W5 ET

X	Test Requirement:	FCC Part15 C Section 15.247 (d)	
SET	Test Method:	ANSI C63.10:2014 W5 [T] W5 [T]	
<u> </u>	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.	WSET
SET	Test Setup:	Spectrum Analyzer EUT	\bigvee
	Test Mode:	Transmitting mode with modulation	
SET	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. 	WSET
	Test Result:	PASS	WSP
	LIFE TO THE PARTY OF THE PARTY		117.

WSET

WSET

WSET

WSET

WSET SOLLOW BOTTO

VSCT WSC

WSET

WSET.

DD: Building A-B,Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chi EL: 0086-755-26996192 26998053 29996144 FAX: 0088-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司

Seation Certification& Testing Group(Shenzhen) Co.,Lt







Report No.: WSCT-ANAB-R&E240800039A-BT

6.9.2. Test Data



Page 52 of 74

rage

ET WSET

TEL: 0086-755-26996192 26996053 26896144

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue.

FAX: 0086-755-86376605







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. TEL: 0088-755-26998192 26998053, 28698144 FAX: 0088-755-88376805 E-mail: fengbing.wang@wsct-cert.com Hittp: www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard Station Certification & Testing Group(Shenzhen) Co., Ltd

Page 53 of 74

SET

W

WSET

ation& Tes



W5E

W5 E

W5 CI

W5 C

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



W5 CT



Report No.: WSCT-ANAB-R&E240800039A-BT

Conducted Spurious Emission Measurement 6.10.

6.10.1. Test Specification

0.10.1. Test 3	specification	17-7-5-1
Test Requireme	nt: FCC Part15 C Section 15.247 (d)	
Test Method:	ANSI C63.10:2014	
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.	WSLI
Test Setup:	Spectrum Analyzer EUT W5577	
Test Mode:	Transmitting mode with modulation	\times
Test Procedure:	2. 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	WSET
Test Result:	PASS	X

WSET WSET WS ET

W5CT

Page 54 of 74

WSEI







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue.

TEL: 0086-755-26996192 26996053 26996144

FAX: 0086-755-86376605

MON #

Shiyan Street, Bao'an District, Shenzhen City, Gu







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B,Baotl'an Industrial Park,No.58 and 60, Tangtou Avenue, Shlyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192, 26998053, 26998144 FAX: 0086-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司 World Standard Fation Certification & Testing Group(Shenzhen) Co.,Lit

ation& Tes

W5 C1

Page 56 of 74

lember of the WSCT Group (WSCT SA)







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue TEL: 0086-755-26996192 26996053 26996144 FAX:0086-755-86376605

MAN #

Page 57 of 74

ation& Tes

W5 C1







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B,Baoll'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. TEL: 0086-755-26996192. 26996053. 26996144 FAX: 0086-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

深圳世标检测认证股份有限公司 World Standard Station Certification& Testing Group(Shenzhen) Co.,Ltd

Page 58 of 74

SET

W5

WSET

ation& Tes

W5 C1







Report No.: WSCT-ANAB-R&E240800039A-BT



W5 C1 ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue. Shiyan Street, Bao'an District, Shenzhen City, Gua

TEL: 0086-755-26996192 26996053 26996144 FAX:0086-755-86376605

Aug 23, 2024 3:12:20 PM

MAN #

ation& Tes





W5 CI

ANSI National Accreditation Board
A C C R E D I T E D

ESQUEE ROSS
TESTING LABORATORY

Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B,Baotl'an Industrial Park,No.58 and 60, Tangtou Avenue, Shlyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192, 26998053, 26998144 FAX: 0086-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standards Attion Certification & Testing Group! Shenzhen, Co., Ltd

W5 C1







Report No.: WSCT-ANAB-R&E240800039A-BT











Report No.: WSCT-ANAB-R&E240800039A-BT





深圳世标检测认证股份有限公司
World Standards Attion Certification & Testing Group! Shenzhen, Co., Ltd

ation& Tes

W5 C1







Report No.: WSCT-ANAB-R&E240800039A-BT



ADD: Building A-B, Baoil'an Industrial Park, No.58 and 60, Tangtou Avenue. Shiyan Street, Bao'an District, Shenzhen City. Guangdong Province. China. TEL: 0086-755-26996192 26996053 29996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard Pation Certification & Testing Group(Shenzhen) Co.,Lt

W5 C1

Page 63 of 74

WSET

ET

WSET



W5 ET

WS E1

W5 ET

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





Report No.: WSCT-ANAB-R&E240800039A-BT

6.11. **Radiated Spurious Emission Measurement**

6.11.1. Test Specification

۲.						
	Test Requirement:	FCC Part15	C Section 1	15.209		X
-	Test Method:	ANSI C63.10	:2014	WSCT		WSIT
	Frequency Range:	9 kHz to 25 C	SHz			
	Measurement Distance:	3 m				
	Antenna Polarization: W5 []	Horizontal &	Vertical		W5	
		Frequency	Detector	RBW	VBW	Remark
	X	0kHz- 150kHz	Ouasi-poak	20047	1kHz	Quasi-peak Value

ď	Receiver	Setup:

Quasi-peak	200Hz	1kHz	Quasi-peak Value
Quasi-peak	9kHz	30kHz	Quasi-peak Value
	WSIT		WSIT
Quasi-peak	100KHz	300KHz	Quasi-peak Value
Peak	1MHz	3MHz	Peak Value
Peak	1MHz	10Hz	Average Value
	Quasi-peak Quasi-peak Peak	Quasi-peak 9kHz Quasi-peak 100KHz Peak 1MHz	Quasi-peak9kHz30kHzQuasi-peak100KHz300KHzPeak1MHz3MHz

W5 CT

			1.0
WSCT WSC	Frequency	Field Strength	Measurement
	rrequericy	(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	//354/
	88-216	150	3
Limit:	216-960	200	3
			_

	A -W sale sale	and the same and t	
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Above 4CH-	500	3	Average
Above 1GHz	5000	3	Peak

For radiated emissions below 30MHz

WSET WSE

WSET

Test setup:

Distance = 3m Computer Pre -Amplifier EUT Receiver Ground Plane

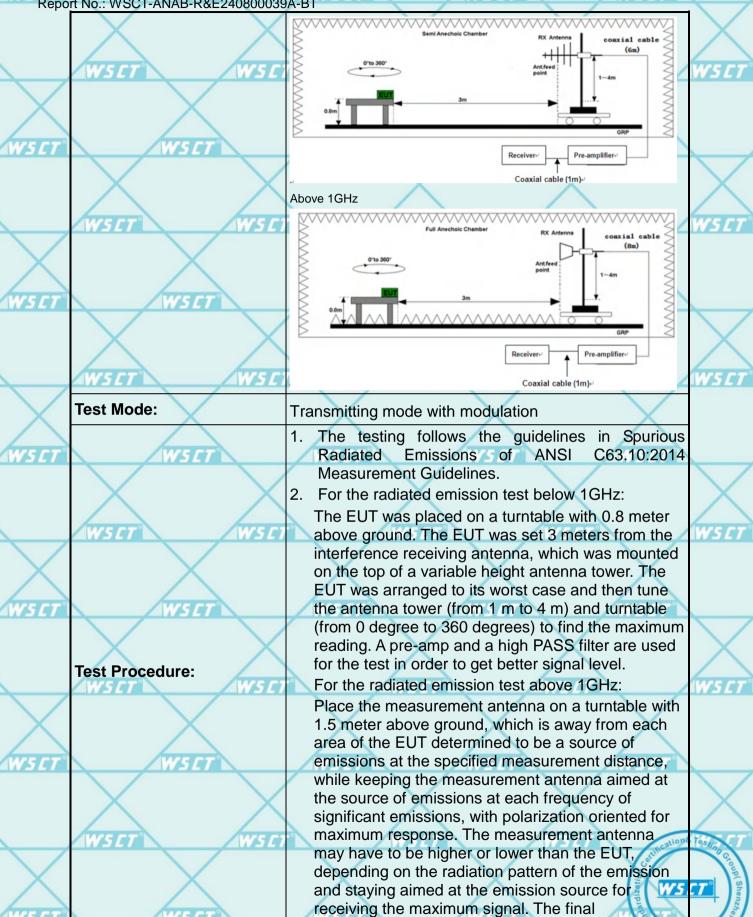
30MHz to 1GHz

Page 64 of 74





Report No.: WSCT-ANAB-R&E240800039A-BT



WSI





Report No.: WSCT-ANAB-R&E240800039A-BT

measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

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

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

Test results: PASS

WSCI

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

WSET WSET WSET WSET

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

l: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

Page 66 of 74

深圳世标检测认证股份有限公司

VSCT WSC

TT W

SET WSET







Report No.: WSCT-ANAB-R&E240800039A-BT

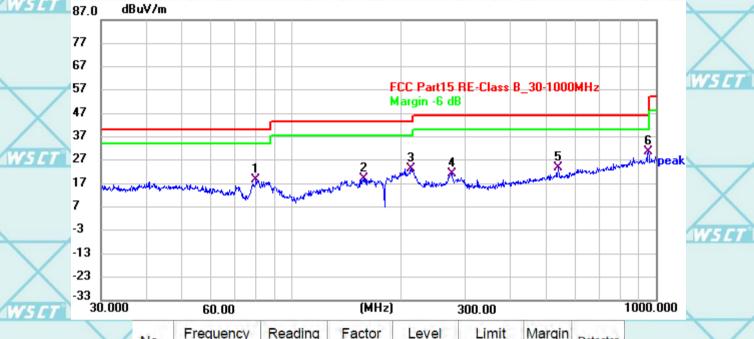
6.11.2. **Test Data**

Please refer to following diagram for individual

Below 1GHz

The worst mode is GFSK

Horizontal:



\times	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	(dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	79.9053	42.80	-23.96	18.84	40.00	-21.16	QP	
WSE	2	158.2510	38.82	-19.58	19.24	43.50	-24.26	QP	
	3	212.8285	47.61	-24.07	23.54	43.50	-19.96	QP	1
	4	276.1235	42.22	-21.15	21.07	46.00	-24.93	QP	/
WSET	5	540.1874	38.81	-15.02	23.79	46.00	-22.21	QP	74
	6 *	952.9287	40.11	-9.32	30.79	46.00	-15.21	QP	

WS ET NS ET WS ET

Page 67 of 74

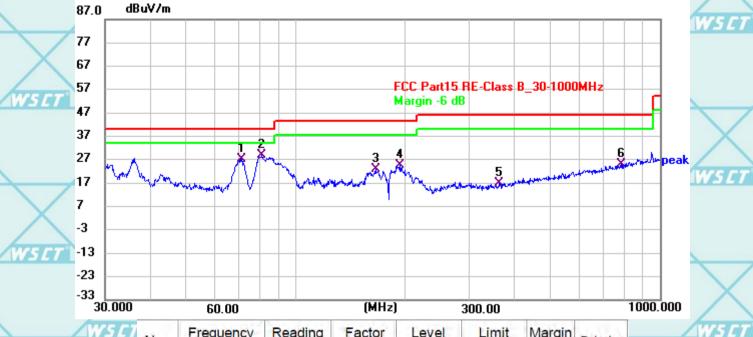






Report No.: WSCT-ANAB-R&E240800039A-BT Vertical:

W5 CT



Wister	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
X	1	71.2363	49.81	-22.42	27.39	40.00	-12.61	QP	
	2 *	81.1406	52.98	-24.07	28.91	40.00	-11.09	QP	4
W5 CT	3	166.4324	43.21	-20.16	23.05	43.50	-20.45	QP	H
\sim	4	193.8577	47.62	-23.19	24.43	43.50	-19.07	QP	
	5	363.3028	35.83	-18.95	16.88	46.00	-29.12	QP	
WSCI	6	783.7182	36.36	-11.21	25.15	46.00	-20.85	QP	

WSET

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

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

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)

MILL

W5CT"

AWS LT

WSCT WSCT WSCT WSCT WSCT

W5 ET

WSET

WEFT

WELT

Continuations Testing Courses Sher

WSET

WSCT

WELT

4WSET

深圳世标检测认证股份有限公司
World Standard Latin Certifications Testing Groupt Shenzhen)

0: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chi : 0086-755-26996192, 26996053, 26996144 FAX: 0088-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

Member of the WSCT Group (WSCT 8A)

Page 68 of 74

WSET







Report No.: WSCT-ANAB-R&E240800039A-BT

WSET

Above 1GHz

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

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

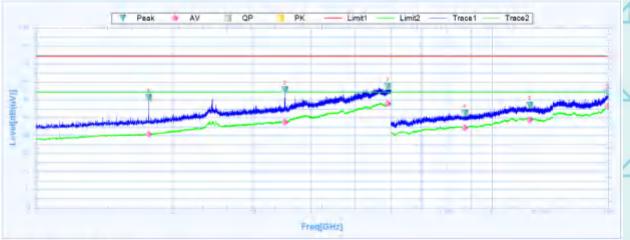
The worst mode is GFSK

WSCT WSCT

WSET

Low channel: 2402MHz

Horizontal:



WSET

WS E1

- 1	Suspu	ited Data Lis	t								
ı	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
Ī	1	1766.8750	51.12	24.98	26.14	74	-22.88	359	Horizontal	PK	Pass
	1	1766.8750	30.98	24.98	6	54	-23.02	359	Horizontal	AV	Pass
/	2	3515.6250	55.71	28.54	27.17	74	-18,29	175.6	Horizontal	PK	Pass
	2	3515.6250	37.55	28.54	9.01	54	-16.45	175.6	Horizontal	AV	Pass
	3	5913.7500	57.36	32.66	24.7	74	-16.64	307.1	Horizontal	PK	Pass
	3	5913.7500	47.79	32.66	15.13	54	-6.21	307.1	Horizontal	AV	Pass
	4	8713.5000	42.58	9.34	33.24	74	-31.42	210.8	Horizontal	PK	Pass
1	4	8713.5000	34.46	9.34	25.12	54	-19.54	210.8	Horizontal	AV	Pass
1	5	12100.5000	47.04	16.68	30.36	74	-26.96	351.1	Horizontal	PK	Pass
1	5	12100.5000	38.85	16.68	22.17	54	-15.15	351.1	Horizontal	AV	Pass
1	3	17955.0000	53.77	23.61	30.16	74	-20.23	360	Horizontal	PK	Pass
	В	17955.0000	46.57	23.61	22.96	54	-7.43	360	Horizontal	AV	Pass

WSCT WSCT WSCT WSCT WSCT

WSET

WSET.

WEFT

WSET

WSET Shenzing

WS CT WS

WSCT

AWSLI

DD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Stueet, Bao'an District, Shenzhen City, Guangdong Province, China EL: 0088-755-26996192 26996053 26996144 FAX: 0088-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard attion Certification & Testing Group(Shenzhen) Co., L

ember of the WSCT Group (WSCT SA)

Page 69 of 74

WSCT

WSET



W5

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

WSET





Report No.: WSCT-ANAB-R&E240800039A-BT

W5 CT

TESTING LABORATORY Certificate Number : AT-3951

Vertical:

II QP Limit2 7 Peak W5E7

W5CT

WSET

Freq[GHz]

Suspu	ted Data Lis	•	1	-		1 1	_	i i		
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2405.0000	46.49	27.28	19.21	74	-27.51	200.6	Vertical	PK	Pass
1	2405.0000	37,45	27.28	10.17	54	-16,55	200.6	Vertical	AV	Pass
2	3596.8750	51.32	28.73	22.59	74	-22.68	323.7	Vertical	PK	Pass
2	3596.8750	38.19	28.73	9.46	54	-15.81	323.7	Vertical	AV	Pass
3	5657.5000	56.86	32.25	24.61	74	-17.14	121.7	Vertical	PK	Pass
3	5657.5000	48.01	32.25	15.76	54	-5.99	121.7	Vertical	AV	Pass
4	9079.5000	43.65	9.91	33.74	74	-30.35	4.6	Vertical	PK	Pass
4	9079,5000	35.39	9.91	25.48	54	-18.61	4.6	Vertical	AV	Pass
5	13606.5000	50.16	17.99	32.17	74	-23.84	289.8	Vertical	PK	Pass
5	13606.5000	42.36	17.99	24.37	54	-11.64	289.8	Vertical	AV	Pass
6	17908.5000	53.16	23.32	29.84	74	-20.84	1.7	Vertical	PK	Pass
6	17908.5000	46.28	23.32	22.96	54	-7.72	1.7	Vertical	AV	Pass

WSET WS ET WSE WSET

W5 ET

W5ET WSET W5 ET WSET

Page 70 of 74

W5 CT

W5 ET







Report No.: WSCT-ANAB-R&E240800039A-BT

Middle channel: 2440MHz

Horizontal:

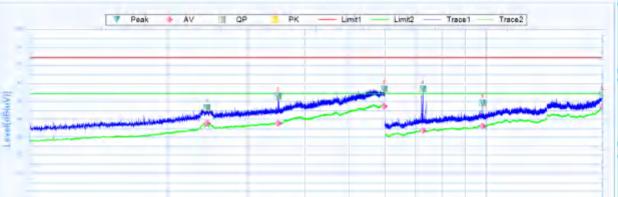
WS CT

WSET

WSCT

WSET

WSET



WSET

W5E

W5 ET

Freq[GHz]

Susp	uted Data Lis	st								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1.	2446.8750	46.37	27.42	18.95	74	-27.63	165.2	Horizontal	PK	Pass
1.	2446.8750	37.69	27.42	10.27	54	-16.31	165.2	Horizontal	AV	Pass
2	3503.7500	52.72	28.51	24.21	74	-21.28	178.3	Horizontal	PK	Pass
2	3503.7500	37.72	28.51	9.21	54	-16.28	178.3	Horizontal	AV	Pass
3	5986.2500	56.73	32.78	23.95	74	-17.27	115	Horizontal	PK	Pass
3	5986.2500	47.32	32.78	14.54	54	-6.68	115	Horizontal	AV	Pass
4	7275.0000	56.68	6.9	49.78	74	-17.32	83	Horizontal	PK	Pass
4	7275.0000	33.83	6.9	26.93	54	-20.17	83	Horizontal	AV	Pass
5	9834.0000	48.93	11.98	36.95	74	-25.07	105.8	Horizontal	PK	Pass
5	9834.0000	36.26	11.98	24.28	54	-17.74	105.8	Horizontal	AV	Pass
6	17992,5000	53.36	23.88	29.48	74	-20.64	139,2	Horizontal	PK	Pass
6	17992.5000	46.92	23.88	23.04	54	-7.08	139.2	Horizontal	AV	Pass

WSET WSET WSET WSET WSET

WSET WSET WSET

WSET

W5 ET

深圳世标检测认证股份有限公司

WSET

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

WSET

Member of the WSCT Group (WSCT SA)

W5ET

Page 71 of 74

W5 ET

WSET WSET

W5 ET



W5 E

W5 E

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

WSET





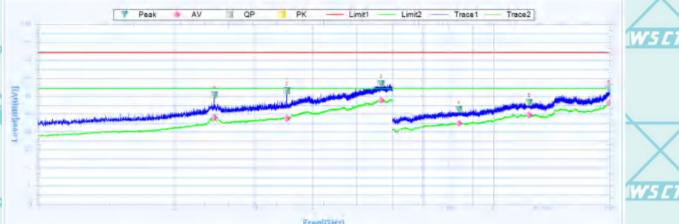
Report No.: WSCT-ANAB-R&E240800039A-BT

W5 CT

W5 CT

TESTING LABORATORY Certificate Number : AT-3951

Vertical:



WS ET

Freq[GHz]

	Transfer of the	CUINCE			2575	2-1151	21.51			
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	[dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2438.1250	50.83	27.39	23.44	74	-23.17	67.8	Vertical	PK	Pass
1	2438.1250	38.17	27.39	10.78	54	-15.83	67.8	Vertical	AV	Pass
2	3522,5000	53.03	28.55	24.48	74	-20,97	27.3	Vertical	PK	Pass
2	3522.5000	37.6	28.55	9.05	54	-16.4	27.3	Vertical	AV	Pass
3	5667.5000	56.94	32.27	24.67	74	-17.06	100.2	Vertical	PK	Pass
3	5667.5000	47.69	32.27	15.42	54	-6.31	100.2	Vertical	AV	Pass
4	8397.0000	42.52	9.09	33.43	74	-31.48	331.6	Vertical	PK	Pass
4	8397,0000	34.96	9.09	25.87	54	-19.04	331.6	Vertical	AV	Pass
5	11968.5000	46.64	16.74	29.9	74	-27,36	2.4	Vertical	PK	Pass
5	11968.5000	39.47	16.74	22.73	54	-14.53	2.4	Vertical	AV	Pass
3	17937.0000	53.75	23.5	30.25	74	-20.25	157	Vertical	PK	Pass
8	17937.0000	46.42	23.5	22.92	54	-7.58	157	Vertical	AV	Pass

WSET WS ET WSE WSET

W5 ET

WS ET WSET W5 ET WSET

Page 72 of 74 WSET

W5 CT

W5 ET



WSET





WSET

W5 E1

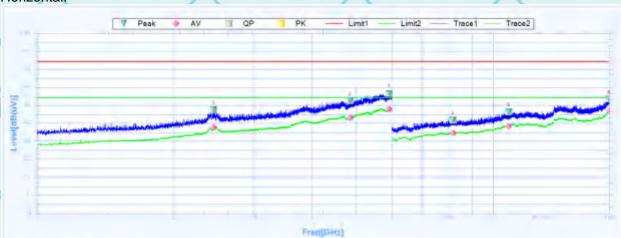
W5 ET

Report No.: WSCT-ANAB-R&E240800039A-BT

High channel: 2480MHz

Horizontal:





W5CT

WSET

W5 C

WSET

Suspi	uted Data Lis	t								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2438.1250	47.53	27.39	20.14	74	-26.47	114.4	Horizontal	PK	Pass
1	2438.1250	37.69	27.39	10.3	54	-16,31	114.4	Horizontal	AV	Pass
2	4861.2500	52.46	31.32	21.14	74	-21.54	359.5	Horizontal	PK	Pass
2	4861.2500	43.07	31.32	11.75	54	-10.93	359.5	Horizontal	AV	Pass
3	5921.8750	56.6	32.67	23.93	74	-17.4	358.8	Horizontal	PK	Pass
3	5921.8750	47.86	32.67	15.19	54	-8.14	358.8	Horizontal	AV	Pass
4	8175.0000	41.73	8.68	33.05	74	-32.27	171.5	Horizontal	PK	Pass
4	8175.0000	34.66	8.68	25,98	54	-19,34	171.5	Horizontal	AV	Pass
5	10831.5000	46.27	14.82	31.45	74	-27.73	307.8	Horizontal	PK	Pass
5	10831.5000	38.36	14.82	23.54	54	-15.64	307.8	Horizontal	AV	Pass
6	17986.5000	53.31	23.83	29.48	74	-20.69	251.6	Horizontal	PK	Pass
6	17986.5000	46.69	23.83	22.86	54	-7.31	251.6	Horizontal	AV	Pass

lember of the WSCT Group (WSCT SA)

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Ave

FAX: 0086-755-86376605

Page 73 of 74

WSET

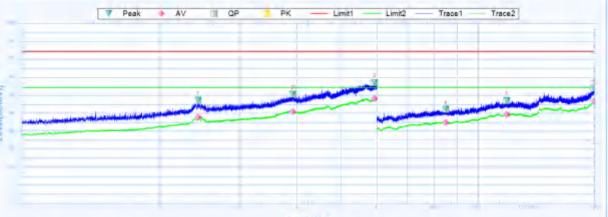
WSET







Report No.: WSCT-ANAB-R&E240800039A-BT Vertical:



Freq[GHz]

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2435.6250	47.25	27.38	19.87	74	-26.75	63	Vertical	PK	Pass
1	2435.6250	37.67	27.38	10.29	54	-16.33	63	Vertical	AV	Pass
2	3928.1250	50.61	29.53	21.08	74	-23.39	22.5	Vertical	PK	Pass
2	3928.1250	40.76	29.53	11.23	54	-13.24	22.5	Vertical	AV	Pass
3	5938.1250	56.99	32.7	24.29	74	-17.01	53.5	Vertical	PK	Pass
3	5938.1250	48.08	32.7	15.38	54	-5.92	53.5	Vertical	AV	Pass
4	8499.0000	42.09	9.22	32.87	74	-31.91	55.4	Vertical	PK	Pass
4	8499.0000	34.93	9.22	25.71	54	-19.07	55.4	Vertical	AV	Pass
5	11562,0000	47.1	16.2	30.9	74	-26.9	122.4	Vertical	PK	Pass
5	11562.0000	39.19	16.2	22.99	54	-14.81	122.4	Vertical	AV	Pass
6	17964,0000	53,95	23.67	30.28	74	-20.05	37.5	Vertical	PK	Pass
6	17964.0000	46.8	23.67	23.13	54	-7.2	37.5	Vertical	AV	Pass

- 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.

	WSET	*****END OF I	REPORT****	WSET	SET.
		\triangle			
WSCT	WSET	WSET	WSET	WSET	
	X	X	X	X	X

FAX:0086-755-8637660

Page 74 of 74