



TEST REPORT

WSET

WSET

FCC ID: 2ADYY-T15RA-1

Product: Laptop Computer

Model No.: T15RA

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E240800043A-LE

Issued Date: 12 October 2024

WSET

Issued for:

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

Issued By:

STREET FOTAN NT HONGKONG

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

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W5 ET

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Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.

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X	\times	\times	
WSET	WSCT WSCT WS	SCT WS	CT
	XXXX	X	X
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Test Certification

Product:

Laptop Computer

Model No.:

T15RA

Trade Mark:

TECNO

Applicant: W/

TECNO MOBILE LIMITED

WSET

Address:

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

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer:

TECNO MOBILE LIMITED 1/25/27

WSET

Address:

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test:

20 September 2024 to 12 October 2024

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

KDB 558074 D01 DTS Meas Guidance v04

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, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

WSET

(Wang Xiang)

Checked By:

(Chen Xu)

Approved By:

WSET

(Li Huaibi)

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Note:

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Test Result Summary 2.

	THE CT.	THE CT	THE CT.	W5CT
1	Requirement	CFR 47 Section	Result	WP 15
	Antenna requirement	§15.203/§15.247 (c)	PASS	
<i>T</i> °	AC Power Line Conducted Emission	W5 <i>ET</i> §15.207	PASS PASS	
_	Conducted Peak Output W5 [7] Power W5 [§15.247 (b)(3) §2.1046	W5 PASS	W5 ET
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
, ,	Power Spectral Density	§15.247 (e)	PASS	
	Band Edge W5 D	1§5.247(d) §2.1051, §2.1057	PASS W5 CT	WSCT
	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
7 /6				

- 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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W5 CT



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EUT Description 3.

	Product:	Laptop Computer W5 CT W5 CT	V5 CT
	Model No.:	T15RA	
	Trade Mark:	TECNO	
	Operation Frequency:	2402MHz~2480MHz	
	Channel Separation:	2MHz	X
	Number of Channel:	407 WSET WSET	V5 CT
/	Modulation Technology:	GFSK	
7	Antenna Type:	Integral Antenna	
	Antenna Gain:	1.78dBi	
		Adapter1: FC498U Input: 100-240V~50/60Hz 1.5A Max	
	WSCT [®] W	Output: PD:5.V3A 15.0W 9V3A	V5CT®
		12 V==3A 15V==3A	
/		20V 3.25A	
7	Operating Voltage:	PPS: 3.3-11V==-5A Max-5	
		Rechargeable Li-ion Polymer Battery: 156	
	×	Rated Voltage: 11.55V	X
		Rated Capacity: 6060mAh/70Wh	
	W5ET W	Typical Capacity: 6160mAh/71.14Wh	V5CT
/		Limited Charge Voltage: 13.2V	
/	Remark:	N/A.	

Configuration differences

Model Processor T15RA i5 i7 T15RA

Note: The prototypes of both configurations have been tested, and the T15RA (i7) has the worst test result, which is the main test model reported

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Operation Frequency each of channel

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	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
	W5CT		WSCT		WS C		W5C	ations
7	8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
								N A

Remark: Channel 0, 19 & 39 have been tested.

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Genera Information 4.

4.1. Test environment and mode

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

Test Mode:

Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m 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.

1	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	FC498U	1	/	TECNO

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the

Test Instruments.

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Facilities and Accreditations 5.

5.1. Facilities

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 32. 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

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5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

X	Commue			
	No.	Item	MU	
AW5CT°	1	Conducted Emission Test	±3.2dB	
	2	RF power, conducted	±0.16dB	X
	3 _{W5} [Spurious emissions, conducted ws [7]	±0.21dB	W5 CT
	4	All emissions, radiated(<1GHz)	±4.7dB	
	5	All emissions, radiated(>1GHz)	±4.7dB	
WS CT°	6	Temperature	±0.5°C	
	7 X	Humidity	±2.0%	X
	W5C	T WSCT WSCT WS	CT°	W5C

WSET	WSET	WSCT	WSCT	WSE	7
	\times	VSET .	WSET	WSET	WSET
WSET	WSET	WSCT	WSET	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	
	\times	YSET"	WSLT	WSET	WSET
WSET	WSET	WSCT	WSET		
		X	X	X	X

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5.4.MEASUREMENT INSTRUMENTS

	STILL THE STATE OF				MPLI		
X	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
<u> </u>	Test software // 5	CT° V	/5 EZ-EMC	CON-03A	- V	V5 CT	
	Test software	/	MTS8310	-	\searrow	-	X
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ 7	LS16 ^{W5}	16010222119	11/05/2023	11/04/2024	'5 E
\times	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
G	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	X
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	
X	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
.	Pre-Amplifier	CDSI	PAP-1G18-38	777	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
	9*6*6 Anechoic		X		11/05/2023	11/04/2024	X
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	7	11/05/2023	11/04/2024	15 E
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
C	System-Controller	CCS V	/5 C T N/A	N/A CT	N.C.R	N.C.R	
	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	X
	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA300 0	-	11/05/2023	11/04/2024	75 L
X	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	
14	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
	Power sensor	Anritsu	MX248XD		11/05/2023	11/04/2024	X
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	ling

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Test Results and Measurement Data

6.1. Antenna requirement

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Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

6.

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 Integral Antenna. it meets the standards, and the best case gain of the antenna is 1.78dBi.

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6.2. Conducted Emission

6.2.1. Test Specification

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6.	2.1. Test Specification		7.8
\times	Test Requirement:	FCC Part15 C Section 15.207	
W5 CT°	Test Method:	ANSI C63.10:2014 W5 [7]	
	Frequency Range:	150 kHz to 30 MHz	/
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	
$\overline{}$	WSET WSE	Frequency range Limit (dBuV)	47
X	Limits:	(MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46*	
W5 CT	WSET	W5 0.5-5 W5 56 465 77 5-30 60 50	_/
	\times	Reference Plane	
	WSCT WSC		97
WSET	Test Setup:	E.U.T Adapter Filter Ac power	
	WSET WSE	Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	47 °
\times	Test Mode:	Charging + Transmitting Mode	
WSCT	WSCT	1. 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.	
		2. The peripheral devices are also connected to the main	
WSET	WSET WSE	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). 3. Both sides of A.C. line are checked for maximum	
	WSET	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.	
	Test Result:	PASS	() duo

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W5C7

1W5 C7

1W5C

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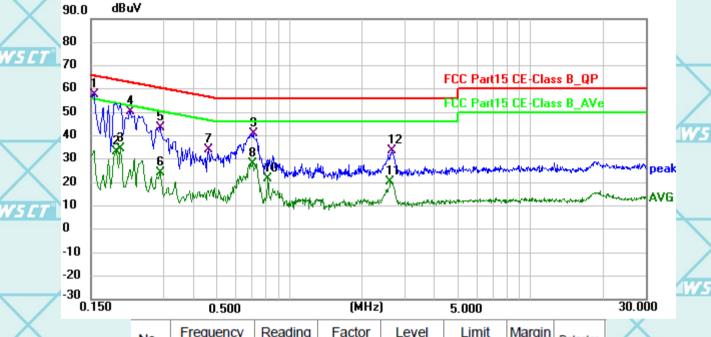


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6.2.2. Test data (worst case)

The worst mode is BLE 2M Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



	No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	4
W5 CT	1 *	0.1545	37.10	20.73	57.83	65.75	-7.92	QP	L
	2	0.1905	12.58	20.70	33.28	54.01	-20.73	AVG	
	3	0.1995	13.86	20.69	34.55	53.63	-19.08	AVG	
WSET	4	0.2175	29.75	20.68	50.43	62.91	-12.48	QP	
	5	0.2895	22.84	20.64	43.48	60.54	-17.06	QP	1
X	6	0.2895	3.59	20.64	24.23	50.54	-26.31	AVG	
	7	0.4605	13.48	20.53	34.01	56.68	-22.67	QP	/
W5 CT	8	0.7035	7.37	20.54	27.91	46.00	-18.09	AVG	И
	9	0.7080	20.54	20.54	41.08	56.00	-14.92	QP	
X	10	0.8160	1.03	20.59	21.62	46.00	-24.38	AVG	
1440.00	11	2.6160	-0.24	20.60	20.36	46.00	-25.64	AVG	
WSET	12	2.6745	12.99	20.60	33.59	56.00	-22.41	QP	7

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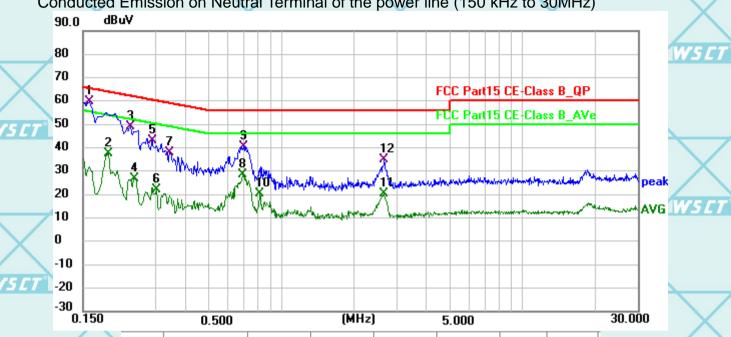




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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



WSET	No.	(MHz)	(dBuV)	Factor (dB)	(dBuV)	(dBuV)	(dB)	Detector	W
	1 *	0.1590	39.20	20.72	59.92	65.52	-5.60	QP	
X	2	0.1905	16.64	20.70	37.34	54.01	-16.67	AVG	X
WE CE	3	0.2355	28.33	20.67	49.00	62.25	-13.25	QP	West
V5 CT	4	0.2445	6.34	20.66	27.00	51.94	-24.94	AVG	W5 CT
	5	0.2895	22.47	20.64	43.11	60.54	-17.43	QP	
	6	0.3030	1.34	20.63	21.97	50.16	-28.19	AVG	
W5 CT	7	0.3435	17.46	20.60	38.06	59.12	-21.06	QP	TV.
	8	0.6900	7.78	20.54	28.32	46.00	-17.68	AVG	
X	9	0.6990	19.83	20.54	40.37	56.00	-15.63	QP	X
	10	0.8160	-0.36	20.59	20.23	46.00	-25.77	AVG	
V5 CT	11	2.6520	-0.31	20.60	20.29	46.00	-25.71	AVG	W5 CT
	12	2.6655	14.40	20.60	35.00	56.00	-21.00	QP	
. X					X			_	

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)

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

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

Q.P. =Quasi-Peak AVG =average

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

VSCT WSC

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W5 CT

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CT WS I

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6.3. Conducted Output Power

6.3.1. Test Specification W5 ET

W5 C7

W5C7

X	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
WSET	Test Method:	KDB558074 W5 [T] W5 [T]	
	Limit:	30dBm	\times
X	Test Setup:	Spectrum Analyzer EUT	W5ET
WSET	Test Mode:	Refer to item 4.1	
WSCT	Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following:	WSCT
X	Test Result:	PASS	
WSCT	WSCT	WSCT WSCT WSCT	

M	YSET .	WSET	WSET	WSI	W	SET [®]
WSET	WSG		WSCT	WSET	WSET	
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6.3.2. Test Data

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W5 C1

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	BLE 1M							
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result				
0	Lowest	9.66	30.00	PASS				
1	Middle	9.64	30.00	PASS				
	Highest	9.45	30.00	PASS				

7	BLE 2M							
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result				
0	Lowest	9.81 <i>5 [T</i>	30.00	PASS [7]				
	Middle	9.75	30.00	PASS				
	Highest	9.33	30.00	PASS				
				The same of the sa				

Test plots as follows:

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WS CT

WS C WS CI W5C W5 CI

WS ET

W5 CI W5 CT

> W5C1 WS CT WS CT W5 E1

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W5 CT

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6.4. Emission Bandwidth

		<i>pp p</i> 9			/	LAFE	
6/	1/	Toet	Sno	cific	ation		1 49 A
U.T.		1 621	Ope	CILIC	auvi		

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X	Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
W5 CT	Test Method:	KDB558074 W5 CT W5 CT	
	Limit:	>500kHz	\times
	Test Setup:	W.S	S C T
X		Spectrum Analyzer EUT	
WS CT	Test Mode:	Refer to item 4.1 W5 CT W5 CT	
	Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must 	5.5.7
WS ET [®]	Test Result:	be greater than 500 kHz. 4. Measure and record the results in the test report. PASS	X
	W50 W50	W-741 W-741 W-	5 <i>CT</i> 1

WSET WSET WSET WSET

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6.4.2. Test data

BI	LE 1M	WELT	WELT	MAG	CT	1
$\overline{}$	Test channel		6dB Emission	Bandwidth (kHz)		
X	rest channel	BT LE	mode	Limit	Result	
5 <i>C T</i> °	Lowest	0.70)4	>500k	W5 LT	
	Middle	0.64	18	>500k	PASS	
	Highest	0.66	64	>500k		/

BLE 2M WS CT WS CT WS CT

1			
V	15	E1	

W5 CT

	Test channel	6dB Emission Bandwidth (kHz)				
rest channel		BT LE mode	Limit	Result		
	Lowest	1.167	>500k	/		
	Middle	1.165	>500k	PASS		
	Highest	W5 [7] 1.223 W5 [7]	>500k	97		

Test plots as follows:

X	X /	X	X

WS ET

				/	
			/		

-		

W5CT°	WSET	WSET	WSET	W5CT

W5CT [®] 1	NS CT	W5 CT°	W5 CT	incationa Testino
				Carull Seg

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6.5. Power Spectral Density

6.5.1. Test Specification

W 5	STT WSTT WSTT	W51
Test Requirement:	FCC Part15 C Section 15.247 (e)	
Test Method:	KDB558074	
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.	\searrow
Test Setup:		W5
	Spectrum Analyzer EUT	
Test Mode:	Refer to item 4.1	
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 	W5
Test Result:	PASS	

W5CT WSET W5 CT W5 E1

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W5 CT

W5CT





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6.5.2. Test data

	Test channel	Power Spectral D	ensity (dBm/3kF	Hz)	W5CT
\bigvee	rest channel	BLE 1M	Limit	Result	
$/ \setminus$	Lowest	-6.49	8 dBm/3kHz		
NS CT®	Middle	-6.53	8 dBm/3kHz	PASS	
	Highest	-6.68	8 dBm/3kHz		\times

_	Toot obannal	Power Spectral Density (dBm/3kHz)						
	Test channel	BLE 2M	Limit	Result				
	Lowest	-8.68	8 dBm/3kHz					
9	Middle	-8.88	8 dBm/3kHz	PASS				
	Highest	-9.21	8 dBm/3kHz					

	Test plots as follows:	WSET	WSET	W5 ET	W5CT°
WSET	WSET	WSCI			ET
	W5 ET	WSET	WSCT	WSET	WSCT
WSET		WSCI			ET
	WSET	WSET	WSET	WSET	WSCT
$\overline{}$		X			

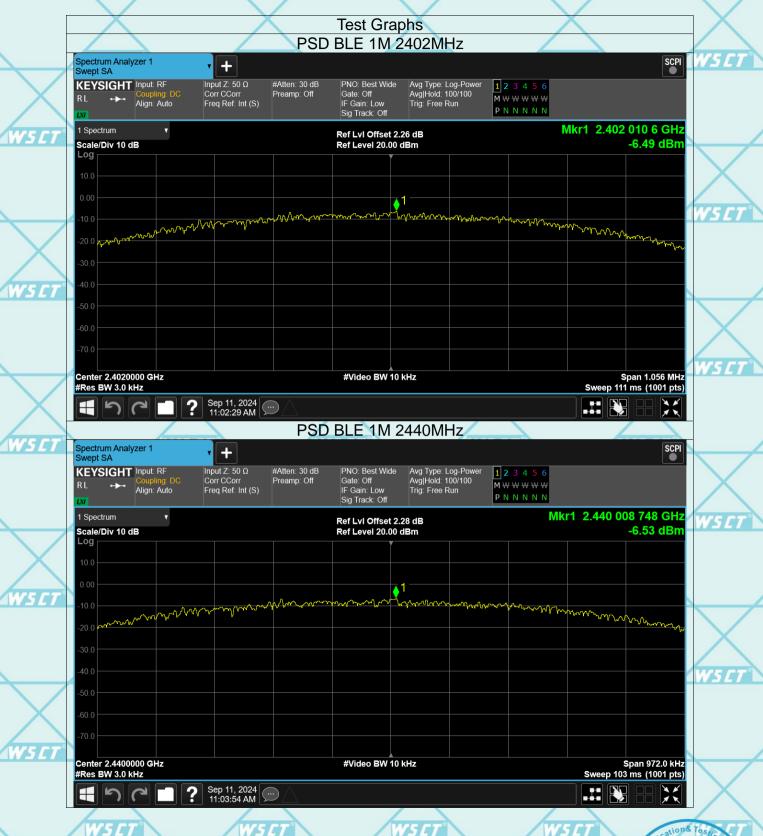
W5 CT WSET W5 CT W5 ET







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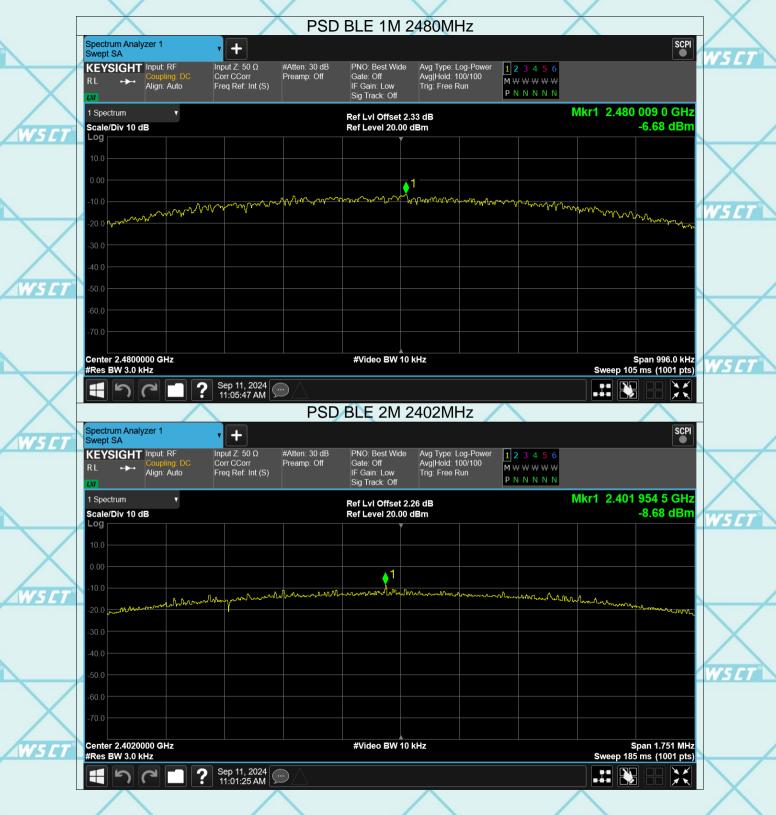




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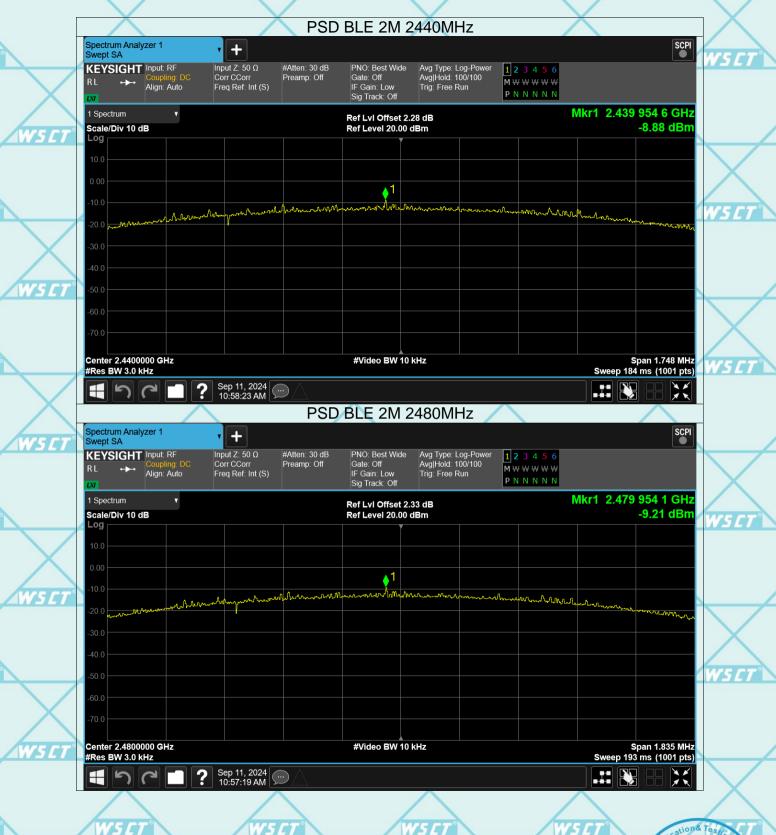




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6.6. Conducted Band Edge and Spurious Emission Measurement

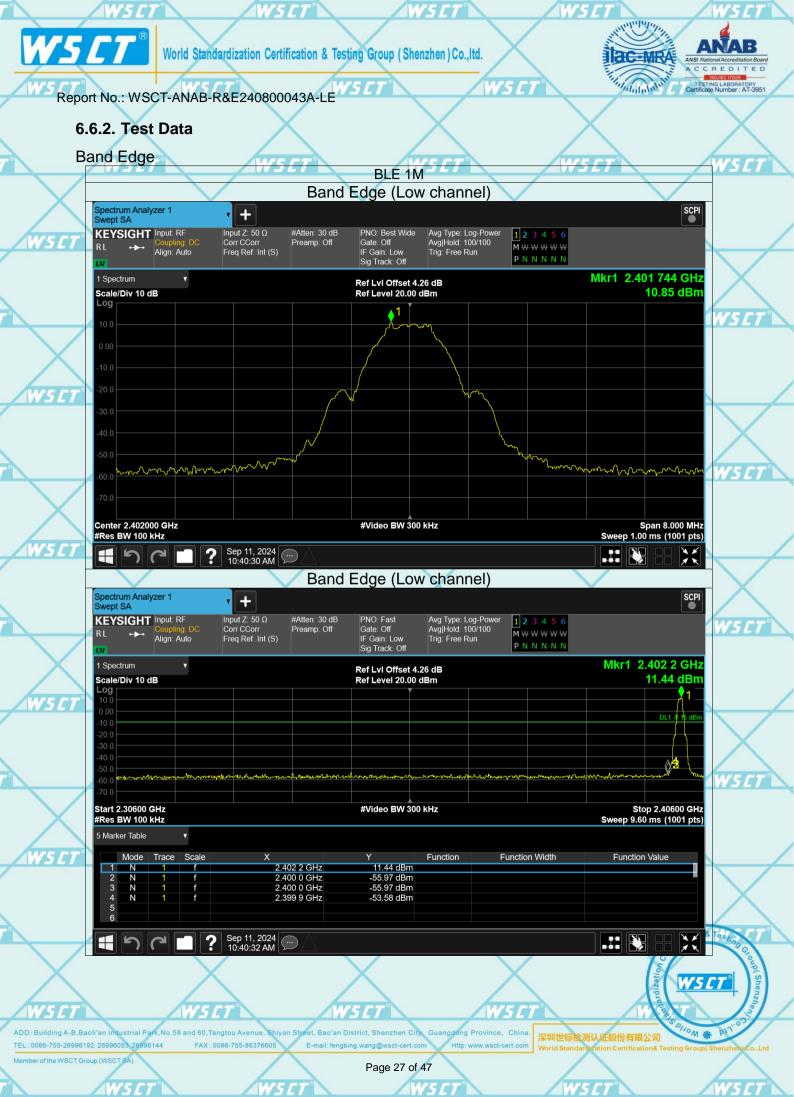
6.6.1. Test Specification

6.	6.1. Test Specification	T WSET WSET	W5CT"
	Test Requirement:	FCC Part15 C Section 15.247 (d)	
	Test Method:	KDB558074	
	Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).	WSET
_	Test Setup:	Spectrum Analyzer EUT	WSCT
7	Test Mode:	Refer to item 4.1	
	Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 	WSET
	Test Result:	PASS	X

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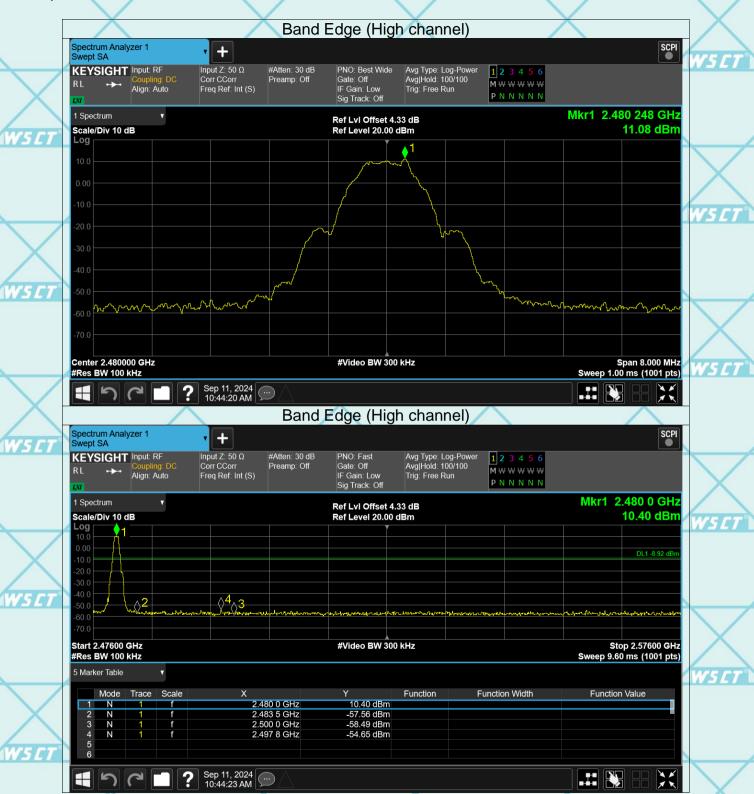




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World Standardization Certification & Testing Group (Shenzhen) Co..ltd. **ac-MRA** WSCT Report No.: WSCT-ANAB-R&E240800043A-LE Conducted RF Spurious Emission Test Graphs Tx. Spurious BLE 1M 2402MHz Ref Spectrum Analyzer 1 Swept SA + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) PNO: Best Wide Gate: Off #Atten: 30 dB Preamp: Off Avg Type: Log-Power Avg|Hold: 100/100 Trig: Free Run KEYSIGHT Input: RF 1 2 3 4 5 6 M ₩ ₩ ₩ ₩ Align: Auto PNNNNN



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6.7. Radiated Spurious Emission Measurement

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6.	7.1. Test Specification					5		Wall
	ти тосторошном							1
X	Test Requirement:	FCC Part15	C Section	15.209				
WSET	Test Method:	ANSI C63.10):2014	WSET		W5	LT.	
	Frequency Range:	9 kHz to 25 (GHz					$\overline{}$
	Measurement Distance:	3 m						
	Antenna Polarization: 1/5 [Horizontal &	Vertical		W5	77		W5CT
	Operation mode:	Refer to item	4.1					
		Frequency	Detector	RBW	VBW	Remai	·k	
W5 CT	W5CT°	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak	Value	
	Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak	Value	
	X	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak	Value	X
			Peak	1MHz	3MHz	Peak Va		
	WSET WSE	Above 1GHz	Peak	1MHz	10Hz	Average \	/alue /	W5CT°
X	\times	Frequen	cv	Field Stre	_	Measuren		
			-	(microvolts	,	Distance (m	eters)	
W5 CT	WSET	0.009-0.4		2400/F(F	207	300	77	
40767		0.490-1.7 1.705-3		24000/F(30	NHZ)	30		
		30-88		100		3		
		88-216		150		3		
	Limit:	216-96		200		3		
$\overline{}$	LIMICT WS CT	Above 9		500		3	-/	(W5CT°
			<u>.</u>					
X	X		Field	Cananasa	Measure	ment		
		Frequency		Strength (olts/meter)	Distan	ce Det	ector	
AWS CT"	W5 CT	WSCT		AWS LI	(meter		CT N	
		Above 1GHz	,	500 5000	3		rage eak	
	\wedge			3000			Zak	
	WSET WSET	For radiated	emissions	below 30)MHz			W5 ET
		Di	stance = 3m			Computer		
X	X	 						
			1) _	Pre -	-Amplifier		
W5CT"	Test setup: WSET			-/				
		EUT	3					
	X		Turn table					X

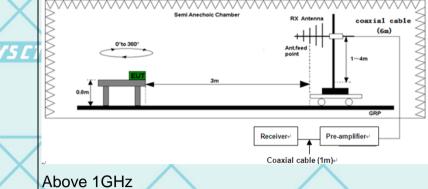
30MHz to 1GHz

Ground Plane





Report No.: WSCT-ANAB-R&E240800043A-LE



Coaxial cable (1m)

Test Procedure:

15 E

 For the radiated emission test below 1GHz: The EUT was placed on a turntable with 0.1 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 (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 maximizes the emissions. The measurement

antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 mys above the ground or reference ground plane

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R E D I T E D ber: AT-3951

W5 CT	rt No.: WSCT-ANAB-R&E240800043	3A-1 F STITE LADO Certificate Number
Repo	WS ET WS ET	2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak
	WSET WSET	(2) Set RBVV=100 kHZ 10(1 < 1 GHZ; VBVV 2RBVV;
WSET	W5 ET	Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.
	WSCT WSCT	For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T,
WSET	Test mode: W5 [7]	Refer to section 4.1 for details
	Test results:	PASS

Note: Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Attenuation factor + Cable loss Level $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit (dBµV) = Limit stated in standard

Margin $(dB) = Level (dB\mu V) - Limits (dB\mu V)$

WS ET

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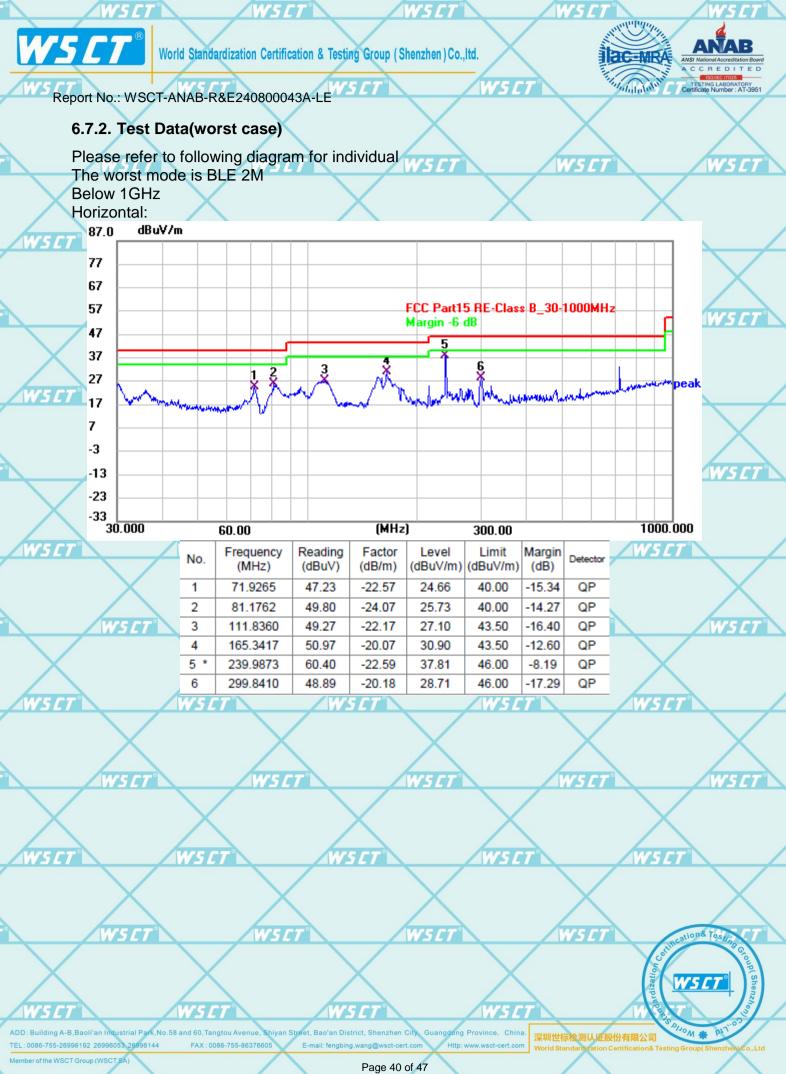
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W5 C1

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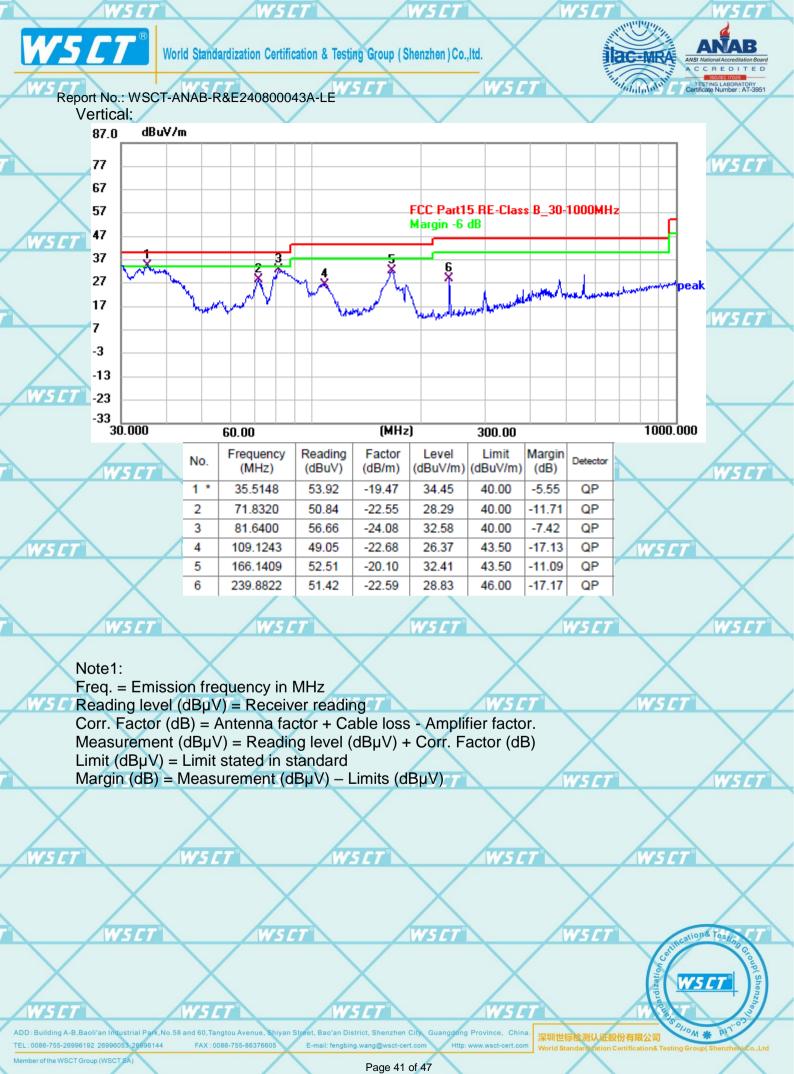
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W5 CT

W5 CT W5 CT



W5 CT W5 C

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WS CT WS CT



W5 ET





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Above 1GHz

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

signal/5_CT W5_CT W5_CT

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

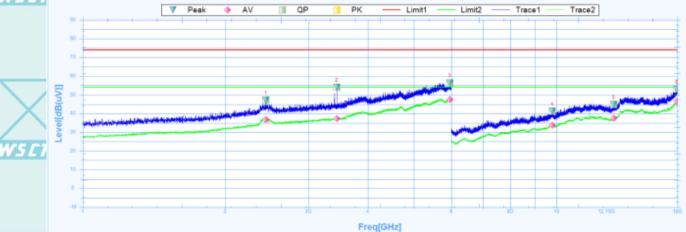
Note 3 BLE 1M and 2M both tested the report and only recorded the worst-case scenario 1M:

Low channel: 2402MHz

Horizontal:

W5 E

W5C



<u>7-14 a</u>

/	Susputed Data List										
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
L	1	2435.6250	47.23	27.38	19.85	74	-26.77	0.5	Horizontal	PK	Pass
	1	2435.6250	36.9	27.38	9.52	54	-17.1	0.5	Horizontal	AV	Pass
	2	3437.5000	54.13	28.46	25.67	74	-19.87	352.9	Horizontal	PK	Pass
	2	3437.5000	37.18	28.46	8.72	54	-16.82	352.9	Horizontal	AV	Pass
	3	5953.7500	56.38	32.73	23.65	74	-17.62	69.8	Horizontal	PK	Pass
	3	5953.7500	47.46	32.73	14.73	54	-6.54	69.8	Horizontal	AV	Pass
	4	9799.5000	41.22	11.89	29.33	74	-32.78	338.9	Horizontal	PK	Pass
	4	9799.5000	33.7	11.89	21.81	54	-20.3	338.9	Horizontal	AV	Pass
	5	13203.0000	44.75	16.74	28.01	74	-29.25	63	Horizontal	PK	Pass
L	5	13203.0000	37.55	16.74	20.81	54	-16.45	63	Horizontal	AV	Pass
	6	17962.5000	52.96	23.66	29.3	74	-21.04	169.5	Horizontal	PK	Pass
	6	17962.5000	46.34	23.66	22.68	54	-7.66	169.5	Horizontal	AV	Pass

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

WSET WSET WSET

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WSET WSET

SET .







Report No.: WSCT-ANAB-R&E240800043A-LE

17953.5000

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

46.05

23.6

W5CT

298.6

Vertical

-7.95

Vertical: ▼ Peak Trace2 Trace1

						ried[On2]							
4		Susputed Data List											
WS CT	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict		
	1	2435.6250	47.19	27.38	19.81	74	-26.81	59	Vertical	PK	Pass		
	1	2435.6250	37.26	27.38	9.88	54	-16.74	59	Vertical	AV	Pass		
	2	3533.7500	46.58	28.58	18	74	-27.42	1.3	Vertical	PK	Pass		
	2	3533.7500	37.72	28.58	9.14	54	-16.28	1.3	Vertical	AV	Pass		
X	3	5744.3750	74.7	32.39	42.31	74	0.7	37.6	Vertical	PK	Fail		
	3	5744.3750	47.47	32.39	15.08	54	-6.53	37.6	Vertical	AV	Pass		
WSCI	4	8461.5000	39.16	9.16	30	74	-34.84	359.3	Vertical	PK	Pass		
112131	4	8461.5000	31.2	9.16	22.04	54	-22.8	359.3	Vertical	AV	Pass		
	5	11482.5000	45.58	16.08	29.5	74	-28.42	13	Vertical	PK	Pass		
	5	11482.5000	37.71	16.08	21.63	54	-16.29	13	Vertical	AV	Pass		
	6	17953.5000	53.33	23.6	29.73	74	-20.67	298.6	Vertical	PK	Pass		

22.45

WSCT	WSET	WSET	WSET	WSET	
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W5 CT

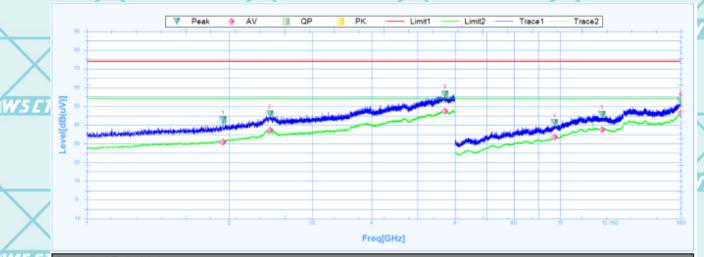




Report No.: WSCT-ANAB-R&E240800043A-LE

Middle channel: 2440MHz

Horizontal:



W5CT°

W5 CT

Susputed Data List

W5 E

	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict			
	1	1941.2500	42.83	25.64	17.19	74	-31.17	167.9	Horizontal	PK	Pass			
	1	1941.2500	30.92	25.64	5.28	54	-23.08	167.9	Horizontal	AV	Pass			
	2	2438.1250	45.8	27.39	18.41	74	-28.2	341.2	Horizontal	PK	Pass			
	2	2438.1250	37.18	27.39	9.79	54	-16.82	341.2	Horizontal	AV	Pass			
	3	5717.5000	56.55	32.35	24.2	74	-17.45	1.4	Horizontal	PK	Pass			
ç	3	5717.5000	47.42	32.35	15.07	54	-6.58	1.4	Horizontal	AV	Pass			
4	4	9745.5000	41.26	11.75	29.51	74	-32.74	280.6	Horizontal	PK	Pass			
	4	9745.5000	33.54	11.75	21.79	54	-20.46	280.6	Horizontal	AV	Pass			
	5	12268.5000	45.74	16.48	29.26	74	-28.26	0	Horizontal	PK	Pass			
	5	12268.5000	37.55	16.48	21.07	54	-16.45	0	Horizontal	AV	Pass			
	6	17998.5000	52.64	23.92	28.72	74	-21.36	359.5	Horizontal	PK	Pass			
	6	17998.5000	46.23	23.92	22.31	54	-7.77	359.5	Horizontal	AV	Pass			

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W5CT

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WSET WSET

W5C1







W5 CT

Report No.: WSCT-ANAB-R&E240800043A-LE Vertical:



	Susputed Data List													
<i>C1</i>	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict			
	1	1451.2500	39.32	25.05	14.27	74	-34.68	336.3	Vertical	PK	Pass			
	1	1451.2500	30.09	25.05	5.04	54	-23.91	336.3	Vertical	AV	Pass			
	2	2439.3750	48.56	27.39	21.17	74	-25.44	9.4	Vertical	PK	Pass			
	2	2439.3750	37.16	27.39	9.77	54	-16.84	9.4	Vertical	AV	Pass			
	3	5675.6250	56.37	32.28	24.09	74	-17.63	96.1	Vertical	PK	Pass			
	3	5675.6250	47.36	32.28	15.08	54	-6.64	96.1	Vertical	AV	Pass			
C T	4	10893.0000	44.95	15.02	29.93	74	-29.05	281.8	Vertical	PK	Pass			
	4	10893.0000	36.56	15.02	21.54	54	-17.44	281.8	Vertical	AV	Pass			
	5	13668.0000	48.3	18.17	30.13	74	-25.7	109.7	Vertical	PK	Pass			
	5	13668.0000	41.06	18.17	22.89	54	-12.94	109.7	Vertical	AV	Pass			
	6	17965.5000	53.37	23.68	29.69	74	-20.63	334.4	Vertical	PK	Pass			
	6	17965.5000	46.36	23.68	22.68	54	-7.64	334.4	Vertical	AV	Pass			

	6	3	17965.5000	46.36	23.68	22.68	54	-7.64	334.4	Vertical	AV	Pass	V5 CT
W	VSET			WSET		WSG		W	SET		W.S	CT CT	
		/II	VS CT		WSCT		WSE			WSG			WS CT
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		/V	VS ET		WSET		WSE	7		WSE		incations)	esting T
W	VS ET	1		WSET		WSE		W	SCT		ngardizatio,	<u>W5.C</u>	7 Shenzhen
			dustrial Park,No.58 8053 26996144	8 and 60, Tangtou Ave FAX: 0086-755-86		et, Bao'an District, S E-mail: fengbing.wang		dong Province, Http://www.wsct-c	7米4	川世标检测认证 rld Standardizatio	E股份有限公司 on Certification& Tes	Sting Group(Sh	

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W5 CT





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Report No.: WSCT-ANAB-R&E240800043A-LE

W5 CT

High channel: 2480MHz Horizontal:

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L	Susputed Data List													
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict			
	1	2185.6250	41.28	26.53	14.75	74	-32.72	175	Horizontal	PK	Pass			
	1	2185.6250	32.96	26.53	6.43	54	-21.04	175	Horizontal	AV	Pass			
/	2	3499.3750	47.16	28.5	18.66	74	-26.84	208.5	Horizontal	PK	Pass			
	2	3499.3750	37.42	28.5	8.92	54	-16.58	208.5	Horizontal	AV	Pass			
	3	5724.3750	56.63	32.36	24.27	74	-17.37	360.1	Horizontal	PK	Pass			
Ţ	3	5724.3750	47.41	32.36	15.05	54	-6.59	360.1	Horizontal	AV	Pass			
L	4	10203.0000	41.63	12.98	28.65	74	-32.37	0.1	Horizontal	PK	Pass			
	4	10203.0000	34.39	12.98	21.41	54	-19.61	0.1	Horizontal	AV	Pass			
	5	11442.0000	46.29	15.96	30.33	74	-27.71	93.1	Horizontal	PK	Pass			
	5	11442.0000	37.66	15.96	21.7	54	-16.34	93.1	Horizontal	AV	Pass			
	6	17968.5000	53.71	23.71	30	74	-20.29	108.6	Horizontal	PK	Pass			
,	6	17968.5000	46.43	23.71	22.72	54	-7.57	108.6	Horizontal	AV	Pass			

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

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World Standard Pation Certification& Testing Group(Shenzhen) Co.,Ltd

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W5C1

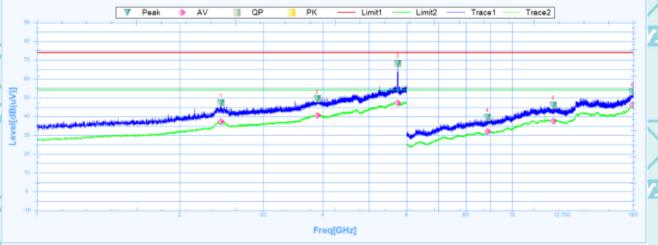






Report No.: WSCT-ANAB-R&E240800043A-LE

Vertical:



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Y	outputed but List											
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	-
	1	2440.0000	47.29	27.4	19.89	74	-26.71	0.5	Vertical	PK	Pass	
	1	2440.0000	37.23	27.4	9.83	54	-16.77	0.5	Vertical	AV	Pass	
	2	3890.6250	49.46	29.44	20.02	74	-24.54	202.5	Vertical	PK	Pass	Ľ
/	2	3890.6250	40.7	29.44	11.26	54	-13.3	202.5	Vertical	AV	Pass	
	3	5748.7500	68.31	32.4	35.91	74	-5.69	256.2	Vertical	PK	Pass	
1	3	5748.7500	47.22	32.4	14.82	54	-6.78	256.2	Vertical	AV	Pass	
7	4	8872.5000	39.43	9.68	29.75	74	-34.57	34.4	Vertical	PK	Pass	
	4	8872.5000	31.91	9.68	22.23	54	-22.09	34.4	Vertical	AV	Pass	
	5	12207.0000	45.94	16.53	29.41	74	-28.06	6.3	Vertical	PK	Pass	
	5	12207.0000	37.49	16.53	20.96	54	-16.51	6.3	Vertical	AV	Pass	
	6	17935.5000	52.91	23.49	29.42	74	-21.09	248.4	Vertical	PK	Pass	
	6	17935.5000	46.06	23.49	22.57	54	-7.94	248.4	Vertical	AV	Pass	

Note:

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 2. Emission Level= Reading Level+Probe Factor +Cable Loss.

3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

Please refer to Annex "Set Up Photos-15C" for test setup photos

*****END OF REPORT*****

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

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