

# TEST REPORT

FCC ID: 2AIZN-X1101B

**Product: Tablet** 

Model No.: X1101B

WSCT

**Trade Mark: Infinix** 

Report No.: WSCT-ANAB-R&E241100056A-LE

Issued Date: 14 November 2024

W5 CT

WSET

Issued for:

WS CT

INFINIX MOBILITY 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 5 77

TEL: +86-755-26996192

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		/	$\checkmark$		
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DD: Building A-B,Baoli'a	n Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan	Street, Bao'an District, Shenzhen City	Guangdong Province, China.	別世标絵測认近股份有限公司	OM # PUTION
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VS CT WS CT





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## **Test Certification**

Product:

Tablet 775 WSET

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

Model No.:

X1101B

**Trade Mark:** 

Infinix

Applicant:

INFINIX MOBILITY LIMITED

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

MEI STREET FOTAN NT HONGKONG

Manufacturer:

INFINIX MOBILITY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN  $^{W5}$  [7]

MEI STREET FOTAN NT HONGKONG

**Date of Test:** 

29 September 2024 to 13 November 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 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.

W5 CT

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Tested By:

(Wang Xiang)

Checked By:

( Qin Shuiguan)

WSET.

Approved By: W5 CT

(Li Huaibi)

Date:

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W5 CT

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#### **Test Result Summary** 2.

	WELL THE THE PARTY OF THE PARTY	TO ME CT	WELT	W5 CT
7	Requirement	CFR 47 Section	Result	Walt
	Antenna requirement	§15.203/§15.247 (c)	PASS	
<b>7°</b>	AC Power Line Conducted Emission	<b>W5 ET</b> §15.207	PASS PASS	
_	Maximum conducted output power W5L		W5 PASS	W5 CT
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
	Power Spectral Density	§15.247 (e)	PASS	
	Band Edge W5 L	1§5.247(d) §2.1051, §2.1057	PASS	WSLT
	Spurious Emission	§15.205/§15.209 §2.1053, §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.

1	W5 CT	W5 CT	W5C	7	W5LT°	WS ET	1
					/		

WS E7

W5 CT W5 E1 W5 CI W5 CI

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Report No.: WSCT-ANAB-R&E241100056A-LE

# 3. EUT Description

	Product Name:	Tablet WS CT WS CT	V5 ET
$\times$	Model :	X1101B	
	Trade Mark:	Infinix	
WS CT	Software version:	X1101B-M1101CDEGHIJKL	
	Hardware version:	V1.0	X
	Operation Frequency:	2402MHz~2480MHz	V5 CT
	Channel Separation:	2MHz	
	Number of Channel:	40	
WSET	Modulation Technology:	GFSK W5CT W5CT	
	Antenna Type:	Internal Antenna	$\times$
	Antenna Gain:	1dBi WSET WSET	V5 CT
WSET		Adapter1: U180XKB Input: 100-240V~50/60Hz 0.6A Output: 5.0V2.4A , 7.5V2.4A 18W max Adapter2: U180XED	
	Operating Voltage:	Input: 100-240V~50/60Hz 0.6A Output: 5.0V2.4A , 7.5V2.4A 18W max Rechargeable Li-ion Polymer Battery: BL-68CX	X
X		Rated Voltage: 3.85V W5 C7 Rated Capacity: 6800mAh /26.18Wh Typical Capacity: 7000mAh /26.95Wh Limited Charge Voltage: 4.4V	VS CT®
W5 CT	Remark:	N/A. WSET WSET WSET	
	Note: 1 NI/A standa for no or	policoble	

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

2. Antenna gain provided by the customer.

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Report No.: WSCT-ANAB-R&E241100056A-LE

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Operation Frequency each of channel

	eporation i requeste y cash or channel							
,	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
0		WSCT		WSET		WSCT		W5CT°
	8	2418MHz	18	2438MHz	28	2458MHz	38	/ 2478MHz
	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
	Remark: Channel 0. 19 & 39 have been tested.							

W5CI W5 CT W5 C7 W5 CT W5 C1 WS CI W5CI W5 CI WS CT W5 CT W5 CT WS ET W5 C WSE W5E W5C tion& Test W5C1 WS ET W5 CI WS [] W5CT

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#### Genera Information 4.

#### 4.1. Test environment and mode

	Operating Environment:		
	Temperature:	25.0 °C	
	Humidity:	56 % RH	1
	Atmospheric Pressure:	1010 mbar	/
7	Test Mode:		W
	Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The	
6	WE CT WE CT	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.

9	Equipment	Model No.	Serial No.	FCC ID	Trade Name
		X	X	1	/

#### 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
- 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

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

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

	Accreditation (ANA	Ab).Certification Num	ber. A1-3931		
	WSET	WSET	WSCT	WSLT	WSET
WS	WS	ET WS		SET W	SCT
	WSET	WSET	WSET	WSET	WSET
WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		$\times$	SCT
	WSET	WSET	WSET	WSET	WSCT
WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.2cm} \rangle$			SCT
	WSET	WSCT	WSET		cations tosa
Wist	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		Service	WSLT WSLT

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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 %.

W5 CT

	No.	Item	MU	
W5CT°	1	Power Spectral Density	±3.2dB	
	2	Duty Cycle and Tx-Sequence and Tx-Gap	±1%	X
	3W5C	Medium Utilisation Factor W5 [7]	±1.3%	W5 ET
	4	Occupied Channel Bandwidth	±2.4%	
	5	Transmitter Unwanted Emission in the out-of Band	±1.3%	
WS CT	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
	7 X	Receiver Spurious Emissions	±2.5%	X
	8W5C	Conducted Emission Test W5 [7] W5	±3.2dB	W5CT"
$\sim$	9	RF power, conducted	±0.16dB	
W/	10	Spurious emissions, conducted	±0.21dB	
<u> WSET</u>	11	All emissions, radiated(<1GHz)	±4.7dB	
	12	All emissions, radiated(>1GHz)	±4.7dB	X
	13/5 L	Temperature W5 CT W5 CT WS	±0.5°C	W5ET
X	14	Humidity	±2.0%	

	WSET	WSET	WSET	WSET	WSCT
WSCT	$\rangle$		$\langle \hspace{0.1cm} \rangle$		er e

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## **5.4.MEASUREMENT INSTRUMENTS**

	5.4.WEASUREWENT INSTRUMENTS						$\wedge$
_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	'5 C 1
<	Test software		EZ-EMC	CON-03A	-	X-	
_	Test software		MTS8310	WSIT	- /	VSCT*	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025	
	LISN	AFJ	LS16	16010222119	11/05/2024	11/04/2025	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	75 C I
<	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025	
C	Coaxial cable	Megalon	LMR400	N/A	11/05/2024	11/04/2025	
	GPIB cable	Megalon	GPIB	N/A	11/05/2024	11/04/2025	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2024	11/04/2025	
	Pre Amplifier	H.P.ET	HP8447E 5 /	2945A02715	11/05/2024	11/04/2025	15 E I
1	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2024	11/04/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	07/29/2024	07/28/2025	
C	9*6*6 Anechoic	<i>ET V</i>	VS ET .	W.S.ET	11/05/2024	11/04/2025	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2024	11/04/2025	$\times$
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2024	11/04/2025	15 E I
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2024	11/04/2025	
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
C	Turn Table	ccs	/5/7N/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	-	11/05/2024	11/04/2025	
	Loop Antenna	EMCO	6502W5	00042960	11/05/2024	11/04/2025	15 E I
1	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2024	11/04/2025	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2024	11/04/2025	
4	Power sensor	Anritsu	MX248XD	WSLI	11/05/2024	11/04/2025	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2024	11/04/2025	X

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6.

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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:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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 Internal Antenna. it meets the standards, and the best case gain of the antenna is 1dBi.

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# 6.2. Conducted Emission

#### 6.2.1. Test Specification

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**W5CT** 

6.	2.1. Test Specification		
X	Test Requirement:	FCC Part15 C Section 15.207	
WSET	Test Method: 5 [7]	ANSI C63.10:2014 W5 [T] W5 [T]	
	Frequency Range:	150 kHz to 30 MHz	
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	CT.
WSET	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	
	WSET WSE	40cm LISN W5	ET"
WSET	Test Setup:	E.U.T Adapter  Test table/Insulation plane  Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	LT.
$\times$	Test Mode:	Charging + Transmitting Mode	
WSET	WSCT	1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a Foothy/Fourt equaling impedance for the	
	$\times$	provides a 50ohm/50uH coupling impedance for the measuring equipment.	
		2. The peripheral devices are also connected to the main	
WSET	WSCT WSC 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).  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.	77
	Test Result:	PASS	Group(

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WELT

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#### **EUT OPERATING CONDITIONS** 6.2.2

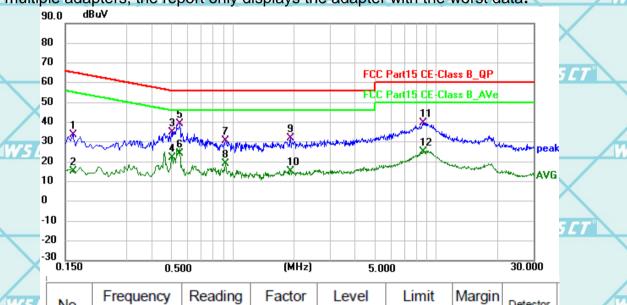
The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

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

For multiple adapters, the report only displays the adapter with the worst data.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
1	0.1635	12.90	20.72	33.62	65.28	-31.66	QP	X
2	0.1635	-5.60	20.72	15.12	55.28	-40.16	AVG	
3	0.5010	14.55	20.51	35.06	56.00	-20.94	QP	5 L
4	0.5010	1.44	20.51	21.95	46.00	-24.05	AVG	
5 *	0.5505	18.69	20.52	39.21	56.00	-16.79	QP	
6	0.5505	3.77	20.52	24.29	46.00	-21.71	AVG	
7	0.9195	9.99	20.64	30.63	56.00	-25.37	QP	
8	0.9195	-1.78	20.64	18.86	46.00	-27.14	AVG	X
9	1.9230	11.12	20.61	31.73	56.00	-24.27	QP	
10	1.9230	-5.48	20.61	15.13	46.00	-30.87	AVG	5 /
11	8.6684	19.31	20.48	39.79	60.00	-20.21	QP	
12	8.6684	4.62	20.48	25.10	50.00	-24.90	AVG	

W5 CT" W5ET° (WSET W5 CT"

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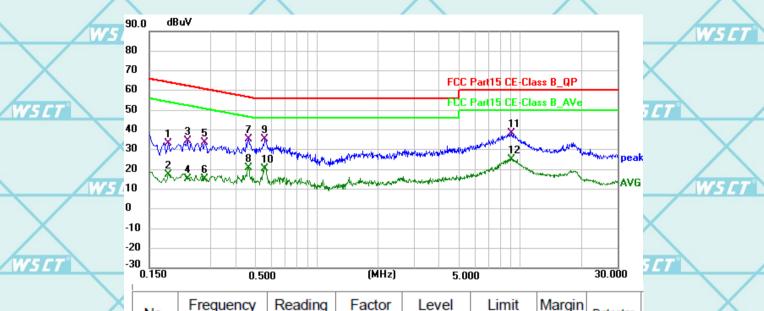






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### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Detector No. (MHz) (dBuV) (dBuV) (dB) (dBuV) (dB) 1 0.1860 12.60 20.70 33.30 64.21 -30.91QP 0.1860 20.70 17.32 54.21 -36.89 AVG 2 -3.383 0.2310 20.67 34.29 62.41 -28.12 QΡ 13.62 0.2310 -5.3520.67 15.32 52.41 -37.094 AVG 5 0.2805 20.64 33.64 60.80 -27.16QP 13.00 6 0.2805 20.64 50.80 -35.40-5.2415.40 AVG 7 20.53 -21.52 QP 0.4605 14.63 35.16 56.68 W5 0.4605 0.45 20.53 20.98 46.68 -25.70AVG 8 9 \* 14.72 20.52 35.24 -20.76QP 0.5550 56.00 20.52 -25.66 AVG 10 0.5550 -0.1820.34 46.00

20.47

20.47

38.15

24.93

Note1:

Freq. = Emission frequency in MHz

11

12

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

9.0195

9.0195

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

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

17.68

4.46

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

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

Q.P. =Quasi-Peak AVG =average

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

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-21.85

-25.07

60.00

50.00

W5E

QP

AVG







Report No.: WSCT-ANAB-R&E241100056A-LE

## 6.3. Conducted Output Power

# 6.3.1. Test Specification W5 ET

W5 ET

W5 CT

W5CT°

W5 CT

X	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
W5 ET	Test Method:	KDB558074	
	Limit:	30dBm	$\times$
X	Test Setup:	Spectrum Analyzer EUT	WS ET*
WSET	Test Mode:	Refer to item 4.1 W5 CT W5 CT	
WSET	Test Procedure:	<ol> <li>The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04.</li> <li>Set spectrum analyzer as following:         <ul> <li>a) Set the RBW ≥ DTS bandwidth.</li> <li>b) Set VBW ≥ 3 x RBW.</li> <li>c) Set span ≥ 3 x RBW</li> <li>d) Sweep time = auto couple.</li> <li>e) Detector = peak.</li> <li>f) Trace mode = max hold.</li> <li>g) Allow trace to fully stabilize.</li> <li>h) Use peak marker function to determine the peak amplitude level.</li> </ul> </li> </ol>	WSET*
X	Test Result:	PASS	
WSET	WSET	WSCT WSCT WSCT	

WSET WSET WSET WSET WSET

W5 CT

WSET

W5 CT

W5 ET

WSCT OF CHARLES OF CHA

WSET

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WELT

*AWSET* 

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WSET WSE





W5 CI

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W5CT

### 6.3.2. Test Data

WS CT

W5 C1

WS CI

	BLE 1M						
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result			
0	Lowest	-4.79	30.00	PASS			
	Middle	-3.13	30.00	PASS			
	Highest	-3.75	30.00	PASS			

		THE RESIDENCE AND ASSESSMENT OF THE RESIDENCE ASSESSMENT O			
BLE 2M					
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	
	Lowest	-4.7 <i>5 ET</i>	30.00	PASS [7]	
	Middle	-3.15	30.00	PASS	
	Highest	-3.58	30.00	PASS	

Test plots as follows:

<b>\</b> /	<b>\</b> /	V		<b>\</b>	
$\wedge$	$\wedge$	$\wedge$	$\wedge$	$\wedge$	
			/ >		
		~	7		

W5 CT	WSCT	W5CT*	W5CT°	W5CT°

WSCT	WS CT	WSET	W5CT°	W5 CT

	W5CT*	WSIT	WSCT	TAKE CT.
W5 CT				

WSCT WSCT WSCT WSCT CALLORS TO SUPPLY CALLORS TO

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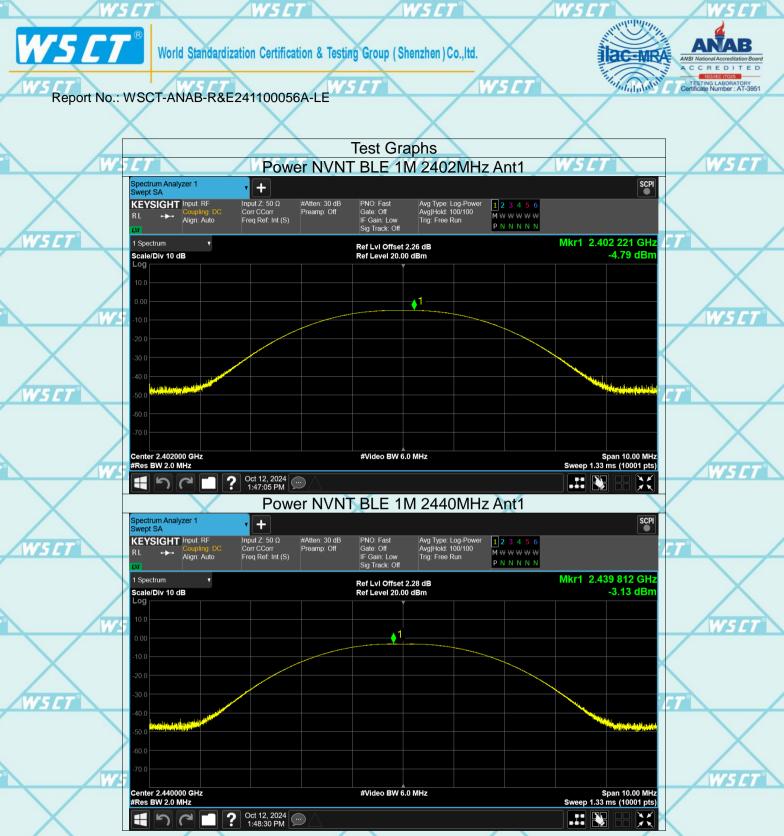
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VSCT WSC

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W5CT W5C

W5C1



WSET WSET WSET WSET

WS CT WS CT WS CT WS CT WS CT WS CT WS CT

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### 6.4. Emission Bandwidth

# 6.4.1. Test Specification W5 C

WSET

W5CT

W5ET°

W5 CT

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
WSET	Test Method:	KDB558074 W5 CT W5 CT	
	Limit:	>500kHz	
	Test Setup:	WS D	7
X		Spectrum Analyzer EUT	
WSCT	Test Mode:	Refer to item 4.1 W5_C7	
WSET	Test Procedure:	<ol> <li>The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li> </ol>	<i>,,</i> ,
	Test Result:	4. Measure and record the results in the test report.  PASS  W51	77
\ /			

WSET WSET WSET WSET WSET

W5 CT

WSET

W5 CT

W5 CT

WSCT ON STREET

WSET

WELT

WELT

AWS CT

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WSCT

W5CT°

WS CT

WS ET

WS CI

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W5 C1

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6.4.2. Test data

BLE 1M

Test channel

Lowest

Middle

Highest

W5C7

6dB Emission Bandwidth (kHz) BT LE mode Result Limit >500k >500k **PASS** 

>500k

BLE 2M

669.5

657.5

659.8

Test channel	6dB Emission Bandwidth (kHz)				
rest chamilei	BT LE mode	Limit	Result		
Lowest	W 1137	W5>500k	W5 ET		
Middle	1145	>500k	PASS		
Highest	1145	>500k			
WSLT	WSET WSET	W5			

Test plots as follows:

WS CT

	<b>\</b>	\	

W5CT°	WSCT	WSET	WSET	WSCT

WSET	W5CT°	WSET	W5 CT	W5CT"

WS ET	WSIT	WSIT	WSET	AFE FT	

W5 CT	W5 E	T	V5 CT°	WSET	scation& Testin
				V <sub>S</sub>	Set The Set of the Set

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W5CT



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# 6.5. Power Spectral Density

## 6.5.1. Test Specification

	/W5/T / W5/	T WSTT WSTT	W5CT"
	Test Requirement:	FCC Part15 C Section 15.247 (e)	
	Test Method:	KDB558074	
WS ET	Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.	X
	Test Setup:		WSET
X		Spectrum Analyzer EUT	
WSET	Test Mode:	Refer to item 4.1	
WSCT	Test Procedure:	<ul> <li>was compensated to the results for each measurement.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. 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)</li> <li>5. 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.</li> <li>6. Measure and record the results in the test report.</li> </ul>	WSCT
	Test Result:	PASS	X

WSCT WSCT WSCT WSCT

WSCT WSCT WSCT

W5 ET

WSCT Street Stre

WSCT

WSIT

WELT

IWS CT

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SET WSET

15 CT

TV

W5C



W5 E1

W5 CT

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lac-MRA



Report No.: WSCT-ANAB-R&E241100056A-LE

6.5.2. Test data

W5CT"

_	Test channel	Power Spectral D	ensity (dBm/3kH	lz)
	rest chamilei	BLE 1M	Limit	Result
\	Lowest	-21.69	8 dBm/3kHz	
0	Middle	-13.76	8 dBm/3kHz	PASS
	Highest	-20.27	8 dBm/3kHz	

_	Toot abannal	Power Spectral D	ensity (dBm/3kHz)		
	Test channel	BLE 2M	Limit	Result	
	Lowest	-18.75	8 dBm/3kHz		
	Middle	-13.08	8 dBm/3kHz	PASS	
	Highest	-19.79	8 dBm/3kHz		

	Test plots as follows:	WSET	WSET	W5 CT	WSET
WSE	T WSET	WSCI	WS		TT .
	WSET	WSET	WSET	WSLT	WSET
WSE	$\langle  \times$	WSCI			ET .
	WSCT	WSET	WSET	WSET	WSET
WSE	$\langle  \times$	WSCI			er -
<b>\</b>	WSLT	WSET	WSET	$\times$	stifications Testing 7
					Till.

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W5 CT

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SET WSET









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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"
$\times$	Test Requirement:	FCC Part15 C Section 15.247 (d)	
WSET	Test Method:	KDB558074	
WSET	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
	Test Mode:	Refer to item 4.1	
WSCT	Test Procedure:	<ol> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>	WSET
	Test Result:	PASS	X

AWSLI

W5 C

W5 CT°

WSCT STEPLES

WSET

1W5 E7

WELT

IWS CT

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WS CT WS C

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WSCT WSCT



























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# **6.7. Radiated Spurious Emission Measurement**

6.7.1.	<b>Test Si</b>	pecification	1
9		o o o i i i o a ci o i i	

**W5**CT"

W5C7

W5CT

W5 CT

9.	7.1. Test Specification						
	Test Requirement:	FCC Part15	C Section	n 15.209		X	
7	Test Method:	ANSI C63.10	0:2014	WSCI		WSCT	
	Frequency Range:	9 kHz to 25 (	GHz			/	1
	Measurement Distance:	3 m					/
	Antenna Polarization: W5 [	Horizontal &	Vertical		WSL	7	W
	Operation mode:	Refer to item	1 4.1				
		Frequency	Detecto	r RBW	VBW	Remark	
70	WSLT	9kHz- 150kHz	Quasi-pe	ak 200Hz	1kHz	Quasi-peak Value	
	Receiver Setup:	150kHz- 30MHz	Quasi-pe	ak 9kHz	30kHz	Quasi-peak Value	1
	X Soupi	30MHz-1GHz	Quasi-pe	ak 100KHz	300KHz	Quasi-peak Value	
			Peak	1MHz	3MHz	Peak Value	/
	WS CT WS CT	Above 1GHz	Peak	1MHz	10Hz	Average Value	W
/							1
	$\times$	Frequen	icv	Field Stre	•	Measurement	
				(microvolts	,	Distance (meters)	
	W5CT*	0.009-0.4		2400/F(I	201	300	
	11-12	0.490-1.7		24000/F(	KHz)	30	_
		1.705-3 30-88		30 100		30	
		88-216		150		3	
	Limit: W.S.C.	216-96		200		3	4
_,	Limit; <sub>CT</sub> W5 C1	Above 9		500		3	W
		7.120.000		000			
			Ei.	eld Strength	Measurer	nent	
		Frequency		rovolts/meter)	Distand	Detector	
	W5CT*	/ W-51-7	(1110	is rond/motor)	(meter	s)	

For radiated emissions below 30MHz

W5CT°

Test setup:

W5ET W5E

Computer

Pre -Amplifier

Receiver

Ground Plane

30MHz to 1GHz

WE TT

WSET WSET

WSIT

WSIT

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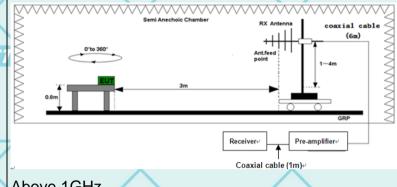
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SET WSET





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Above 1GHz

1. 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 m. above the ground or reference ground plane. Corrected Reading: Antenna Factor + Cable Loss +

Test Procedure:

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	WSCT	AWS CT
Report No . WSCT	-ANAR-R&F2/1100056A-L	

Repo	rt No.: WSCT-ANAB-R&E241100056	A-LE	$\overline{}$
	$\vee$	Read Level - Preamp Factor = Level	
		3. For measurement below 1GHz, If the emission level	
	WSET WSET	of the EUT measured by the peak detector is 3 dB	W5 CT
$\overline{}$	Wald	lower than the applicable limit, the peak emission	WELL
X	$\times$	level will be reported. Otherwise, the emission	
		measurement will be repeated using the quasi-peak	
W5 CT	WSCT	detector and reported.	
		Use the following spectrum analyzer settings:     (1) Span shall wide enough to fully capture the	
	$\times$	emission being measured;	X
	WSET WSET	(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;	W5 ET
		Sweep = auto; Detector function = peak; Trace =	
X	X	max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz	
		for peak measurement.	
W5 CT	W5 CT"	For average measurement: VBW = 10 Hz, when	
		duty cycle is no less than 98 percent. VBW ≥ 1/T,	
	X		X
		when duty cycle is less than 98 percent where T is	$\angle$
	WSET WSET	the minimum transmission duration over which the transmitter is on and is transmitting at its maximum	WS CT
		power control level for the tested mode of operation.	
	Toot made:		
AVIOLET S	Test mode:	Refer to section 4.1 for details	
AW5 CT	Test results:	PASS 14	
		X X	

Note 1: The symbol of "--" in the table which means not application.

For the test data above 1 GHz, According the ANSI C63.10-2013, where limits are specified for both average Note 2: and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB Note 3: lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode

is worst.





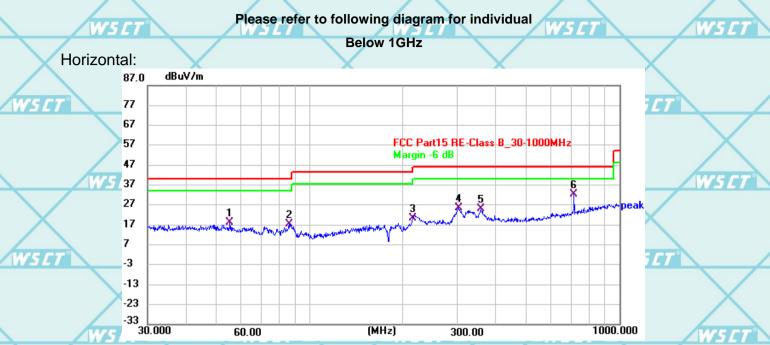
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W5 CT

#### 6.7.2. Test Data



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	55.4390	37.68	-19.68	18.00	40.00	-22.00	QP
	2	86.0491	41.34	-23.92	17.42	40.00	-22.58	QP
	3	215.9293	44.49	-24.04	20.45	43.50	-23.05	QP
5	4	302.2160	45.44	-20.12	25.32	46.00	-20.68	QP
	5	356.9886	44.03	-19.01	25.02	46.00	-20.98	QP
	6 *	714.1734	44.56	-12.07	32.49	46.00	-13.51	QP
	_	_		_				

(MHz)

300.00

WSCI W5 CI W5 C tion& Tes

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60.00

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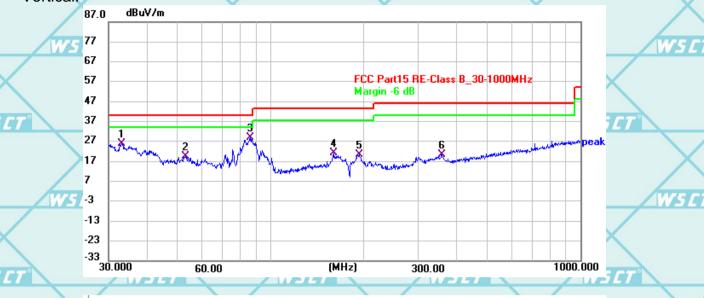




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Vertical: 87.0 dBuV/m





Frequency Reading Factor Level Margin Limit No. Detector (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 33.1967 45.39 -19.5325.86 40.00 -14.14 QP 1 2 53.1313 38.30 -18.9719.33 40.00 -20.67QP 3 \* 86.0114 52.98 -23.91 29.07 40.00 -10.93 QΡ 21.12 43.50 -22.38 QP 4 160.4160 40.78 -19.665 193.5181 43.70 -23.19 20.51 43.50 -22.99 QP 358.8713 39.40 -18.97 20.43 -25.57 QP 6 46.00

W5 CI

Note1:

Freg. = 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 $\mu$ V) - Limits (dB $\mu$ V)

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W5C1





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# Above 1GHz

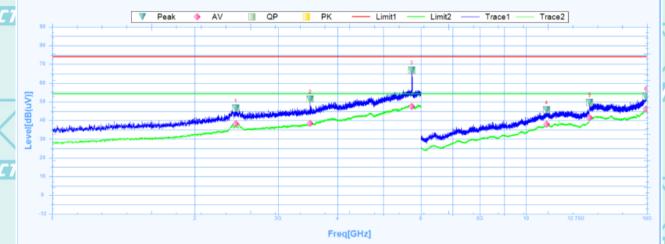
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

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

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

Low channel: 2402MHz

Horizontal:



Susputed Data List Reading Deg Factor Level Limit Margin Freq. Verdict NO. **Polarity** Trace [MHz] [dB(uV)] [dB] [dB(uV)] [dB] [dB] [°] 27.39 -27.44 360.1 2438.7500 46.56 19.17 74 Horizontal PΚ Pass 2438.7500 38.15 27.39 10.76 54 -15.85 360.1 Horizontal ΑV Pass 3505.0000 51.47 28.51 22.96 74 -22.53 341.2 PK Pass Horizontal 3505.0000 38.29 28.51 9.78 54 -15.71 341.2 Horizontal ΑV Pass 3 5736.8750 66.88 32.38 34.5 74 -7.12 29.2 PΚ Horizontal Pass 47.51 -6.49 3 5736.8750 32.38 15.13 54 29.2 Horizontal ΑV Pass -28.24 11046.0000 45.76 15.77 29.99 74 41.6 Horizontal PΚ Pass 4 37.89 54 -16.11 11046.0000 15.77 22.12 41.6 ΑV Pass Horizontal 5 13626.0000 49.64 18.05 31.59 74 -24.36 PK Horizontal Pass 5 13626.0000 41.55 18.05 23.5 54 -12.45 0 Horizontal ΑV Pass 6 17904.0000 52.85 23 29 29.56 74 -21.15 168.3 Horizontal PK Pass 6 17904.0000 46.12 23.29 22.83 54 -7.88 168.3 Horizontal ΑV Pass

	WSCT	WSET	W5 CT	WSET	V5 CT
W5CT	W5ET <sup>®</sup>	WSET	W5CT"	W5CT <sup>®</sup>	
					7

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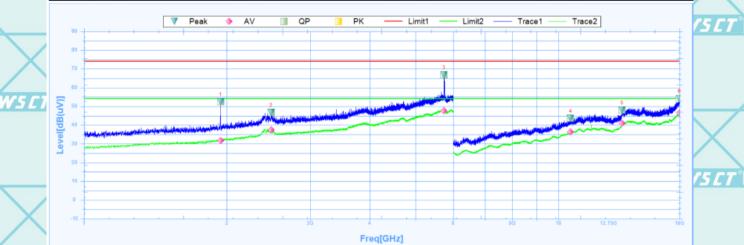




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W5CT

### Vertical:



W5 E

W5 E

U	Suspu	ted Data Lis	it								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1940.6250	52.59	25.63	26.96	74	-21.41	62.6	Vertical	PK	Pass
	1	1940.6250	31.83	25.63	6.2	54	-22.17	62.6	Vertical	AV	Pass
	2	2479.3750	46.68	27.53	19.15	74	-27.32	90.1	Vertical	PK	Pass
	2	2479.3750	37.47	27.53	9.94	54	-16.53	90.1	Vertical	AV	Pass
	3	5737.5000	66.8	32.38	34.42	74	-7.2	1.4	Vertical	PK	Pass
7	3	5737.5000	47.74	32.38	15.36	54	-6.26	1.4	Vertical	AV	Pass
	4	10603.5000	43.63	14.33	29.3	74	-30.37	238.9	Vertical	PK	Pass
	4	10603.5000	36.4	14.33	22.07	54	-17.6	238.9	Vertical	AV	Pass
	5	13612.5000	48.08	18	30.08	74	-25.92	358.4	Vertical	PK	Pass
	5	13612.5000	41.03	18	23.03	54	-12.97	358.4	Vertical	AV	Pass
	6	17983.5000	54.18	23.81	30.37	74	-19.82	277	Vertical	PK	Pass
	6	17983.5000	46.49	23.81	22.68	54	-7.51	277	Vertical	AV	Pass

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W5CT





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Report No.: WSCT-ANAB-R&E241100056A-LE

Middle channel: 2440MHz

Horizontal:

Peak AV OP PK Limit1 Limit2 Trace1 Trace2

Freq[GHz]

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	Suspu	ted Data Lis	it								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2467.5000	46.36	27.49	18.87	74	-27.64	31.4	Horizontal	PK	Pass
	1	2467.5000	36.23	27.49	8.74	54	-17.77	31.4	Horizontal	AV	Pass
	2	3403.7500	58.81	28.44	30.37	74	-15.19	217.9	Horizontal	PK	Pass
	2	3403.7500	37.61	28.44	9.17	54	-16.39	217.9	Horizontal	AV	Pass
ī	3	5901.2500	57.4	32.64	24.76	74	-16.6	11.4	Horizontal	PK	Pass
-	3	5901.2500	47.08	32.64	14.44	54	-6.92	11.4	Horizontal	AV	Pass
	4	11059.5000	44.73	15.81	28.92	74	-29.27	38	Horizontal	PK	Pass
	4	11059.5000	37.85	15.81	22.04	54	-16.15	38	Horizontal	AV	Pass
	5	13983.0000	49.77	19.08	30.69	74	-24.23	251.9	Horizontal	PK	Pass
	5	13983.0000	41.92	19.08	22.84	54	-12.08	251.9	Horizontal	AV	Pass
	6	17992.5000	53.4	23.88	29.52	74	-20.6	-0.1	Horizontal	PK	Pass
	6	17992.5000	46.66	23.88	22.78	54	-7.34	-0.1	Horizontal	AV	Pass

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### Vertical:



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4	Suspu	usputed Data List										
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
ſ	1	1744.3750	45.41	24.97	20.44	74	-28.59	140.3	Vertical	PK	Pass	
-[	1	1744.3750	30.99	24.97	6.02	54	-23.01	140.3	Vertical	AV	Pass	
1	2	2425.6250	45.94	27.35	18.59	74	-28.06	270.6	Vertical	PK	Pass	
	2	2425.6250	37	27.35	9.65	54	-17	270.6	Vertical	AV	Pass	
	3	5753.1250	66.69	32.4	34.29	74	-7.31	325.6	Vertical	PK	Pass	
7	3	5753.1250	47.45	32.4	15.05	54	-6.55	325.6	Vertical	AV	Pass	
	4	11272.5000	46	15.64	30.36	74	-28	194.6	Vertical	PK	Pass	
	4	11272.5000	36.72	15.64	21.08	54	-17.28	194.6	Vertical	AV	Pass	
	5	13605.0000	49.01	17.98	31.03	74	-24.99	7.1	Vertical	PK	Pass	
	5	13605.0000	41.59	17.98	23.61	54	-12.41	7.1	Vertical	AV	Pass	
	6	17986.5000	54.05	23.83	30.22	74	-19.95	313	Vertical	PK	Pass	
	6	17986.5000	46.73	23.83	22.9	54	-7.27	313	Vertical	AV	Pass	

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High channel: 2480MHz

Horizontal:



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	2518.1250	46.15	27.62	18.53	74	-27.85	57.8	Horizontal	PK	Pass
1	2518.1250	36.24	27.62	8.62	54	-17.76	57.8	Horizontal	AV	Pass
2	3405.0000	54.72	28.44	26.28	74	-19.28	5.4	Horizontal	PK	Pass
2	3405.0000	37.33	28.44	8.89	54	-16.67	5.4	Horizontal	AV	Pass
3	5753.7500	68.81	32.41	36.4	74	-5.19	24.5	Horizontal	PK	Pass
3	5753.7500	47.36	32.41	14.95	54	-6.64	24.5	Horizontal	AV	Pass
4	11457.0000	45.2	16.01	29.19	74	-28.8	111	Horizontal	PK	Pass
4	11457.0000	37.68	16.01	21.67	54	-16.32	111	Horizontal	AV	Pass
5	14299.5000	49.69	18.82	30.87	74	-24.31	84.6	Horizontal	PK	Pass
5	14299.5000	41.78	18.82	22.96	54	-12.22	84.6	Horizontal	AV	Pass
6	17992.5000	54.11	23.88	30.23	74	-19.89	152.8	Horizontal	PK	Pass
6	17992.5000	46.59	23.88	22.71	54	-7.41	152.8	Horizontal	AV	Pass

14299.5000         41.78         18.82         22.96         54         -12.22         84.6         Horizontal         AV         Pass           17992.5000         54.11         23.88         30.23         74         -19.89         152.8         Horizontal         PK         Pass           17992.5000         46.59         23.88         22.71         54         -7.41         152.8         Horizontal         AV         Pass   W5 [T] W5 [T] W5 [T] W5 [T]
17992.5000 46.59 23.88 22.71 54 -7.41 152.8 Horizontal AV Pass  W5 CT W5 CT W5 CT
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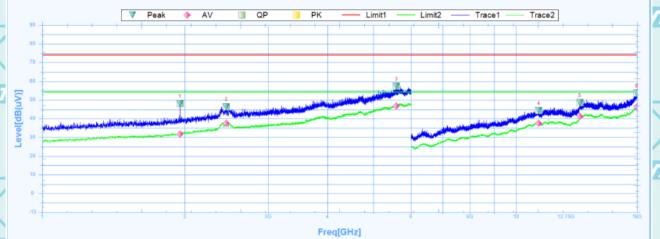




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### Vertical:



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51	Suspu	ıted Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	1952.5000	48.09	25.69	22.4	74	-25.91	331.7	Vertical	PK	Pass	7
	1	1952.5000	31.69	25.69	6	54	-22.31	331.7	Vertical	AV	Pass	1
/	2	2446.8750	46.44	27.42	19.02	74	-27.56	0.5	Vertical	PK	Pass	
	2	2446.8750	37.46	27.42	10.04	54	-16.54	0.5	Vertical	AV	Pass	
1	3	5591.8750	57.37	32.15	25.22	74	-16.63	1.4	Vertical	PK	Pass	
4	3	5591.8750	46.87	32.15	14.72	54	-7.13	1.4	Vertical	AV	Pass	
	4	11172.0000	44.4	15.78	28.62	74	-29.6	358.3	Vertical	PK	Pass	
	4	11172.0000	37.6	15.78	21.82	54	-16.4	358.3	Vertical	AV	Pass	
	5	13630.5000	48.59	18.06	30.53	74	-25.41	359.5	Vertical	PK	Pass	,
	5	13630.5000	41.19	18.06	23.13	54	-12.81	359.5	Vertical	AV	Pass	,
	6	17992.5000	53.69	23.88	29.81	74	-20.31	314.2	Vertical	PK	Pass	1
/	6	17992.5000	46.31	23.88	22.43	54	-7.69	314.2	Vertical	AV	Pass	

Note:

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- 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.
- 4. EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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## 6.7.3. Restricted Bands Requirements

Test result for GFSK Mode (the worst case)

	rest result it	est result for GFSK wode (the			worst case)				
	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector	
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V		
Low Channel								Aug.	
4	2390	61.51	-8.76	52.75	74	21.25	ł	PK	
	2390	55.74	-8.76	46.98	54	7.02	Н	AV	
	2390	63.04	-8.73	54.31	74	19.69	V	PK	
	2390	56.65	-8.73	47.92	54	6.08	>	AV	
		High Channel							
	2483.5	63.42	-8.76	54.66	74	19.34	H	PK	
Y	2483.5	53.48	-8.76	44.72	54	9.28	Ι	AVWS	
	2483.5	63.63	-8.73	54.90	74	19.10	V	PK PK	
	2483.5	55.06	-8.73	46.33	54	7.67	V	AV	
	Note: Fred - En	niccion fraguano	ov in MHz						

Note: Freq. = Emission frequency in MHz

Reading level  $(dB\mu V)$  = Receiver reading Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit  $(dB\mu V)$  = Limit stated in standard Margin (dB) = Level  $(dB\mu V)$  – Limits  $(dB\mu V)$ 

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