

WSCT

TEST REPORT

WSET

WSET

W5CT

Product: Al Ring

W5ET

Model No.: XR1

FCC ID: 2AIZN-XR1

Trade Mark: Infinix

Report No.: WSCT-ANAB-R&E250100004A-LE

Issued Date: 19 February 2025

WSET

Issued for:

INFINIX MOBILE LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 W5 ESHAN MEI STREET FOTAN NT HONGKONG

Issued By:

WSE

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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Test Certification

Al Ring **Product:**

Model No.: XR1

Infinix **Trade Mark:**

Applicant: **INFINIX MOBILE LIMITED**

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

WSCT

19-25 SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer: INFINIX MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

19-25 SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 12 January 2025 to 19 February 2025

Applicable FCC CFR Title 47 Part 15 Subpart C Section 15.247

Standards: 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:

(Wang Xiang)

Checked By:

(Chen Xu)

Approved By:

Date:

(Li Huaibi)

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Test Result Summary 2.

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/	Requirement	CFR 47 Section	Result	(W5CT)
X (Antenna requirement	§15.203/§15.247 (c)	PASS	
ET°	AC Power Line Conducted Emission	W5 ET §15.207	PASS PASS	\bigvee
	Conducted Peak Output W5 [7] Power W5 [§15.247 (b)(3) §2.1046	W5 PASS	WS LT°
CT.	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
	Power Spectral Density	§15.247 (e)	PASS	
	Band Edge W5/	1§5.247(d) §2.1051, §2.1057	PASS	WSCT
\leq	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.

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EUT Description 3.

Product Name:	Al Ring WSET WSET	VS CT
Model :	XR1	
Trade Mark:	Infinix	
Operation Frequency:	2402MHz~2480MHz	$\overline{}$
Channel Separation:	2MHz	X
Number of Channel:	407 WSET WSET	V5 ET
Modulation Technology:	GFSK	
Antenna Type;	PCB Antenna WSCT	,
Antenna Gain:	-4.22dBi.	
WSET	Charging Box Battery: Li-ion Battery: WET 411830 Voltage: 3.8V	VS CT
Operating Voltage	Rated Capacity: 250mAh 0.95Wh Ring Battery: Li-ion Battery: 150732	
\times	Voltage: 3.7V Rated Capacity: 15mAh	X
Remark:	N/A. WSET WSET	V5CT
	Model: Trade Mark: Operation Frequency: Channel Separation: Number of Channel: Modulation Technology: Antenna Type: Antenna Gain: WSCT W	Model: XR1 Trade Mark: Infinix Operation Frequency: 2402MHz~2480MHz Channel Separation: 2MHz Number of Channel: 407 Modulation Technology: GFSK Antenna Type: PCB Antenna Antenna Gain: -4,22dBi. Charging Box Battery: Li-ion Battery: WET 411830 Voltage: 3.8V Rated Capacity: 250mAh 0.95Wh Ring Battery: Li-ion Battery: Li-ion Battery: Usinon Battery: 150732 Voltage: 3.7V Rated Capacity: 18mAh 0.067Wh Li-ion Battery: 170725 Voltage: 3.7V Rated Capacity: 15mAh

Operation Frequency each of 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
W5 CT		<u> </u>		W5C		W5 C	7°
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	XCU32	\times	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 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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5. Facilities and Accreditations

5.1. Facilities

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

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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

	Accreditation (ANAB). Certification	n Number. At-3	9931		
	WSLT	WSE		VS CT	WSCT	WSET
WSC		WSET	WSET	WSET		567
	WSCT	WSEI		WSET	W5 ET	WSET
WSC		WSET	WSET	WSGI		SET
	WSCT	WSEI		WSET	WSET	WSET
WSE		WSET	WSCT	WSEI	W	SCT
	WSCT	WSEI		WSET		cations tests
WSE		WSCT	WSET	WSEI	IN	Continue Testing County (Shenzh

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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 %.

	No.	Item	MU	
W5CT°	1	Power Spectral Density	±3.2dB	
	2	Duty Cycle and Tx-Sequence and Tx-Gap	±1%	X
	3 _{W5}	Medium Utilisation Factor W5 [7]	±1.3%	W5 CT
	4	Occupied Channel Bandwidth	±2.4%	
	5	Transmitter Unwanted Emission in the out-of Band	±1.3%	
<u> WSET</u>	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
	7 X	Receiver Spurious Emissions	±2.5%	X
	8W5[Conducted Emission Test W5 [7] W5	±3.2dB	W5 CT
\sim	9	RF power, conducted	±0.16dB	
	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 C	Temperature WSET WSET WS	±0.5°C	W5 CT
X	14	Humidity	±2.0%	

WS CT	WSET	WSCT	W5 Ci	W5	
	VSET	WSET	WSET	WSET	WSET
WSET	WSCT	WSET			
	X	X	X	X	X



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5.4.MEASUREMENT INSTRUMENTS

	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	'5 C
	Test software		EZ-EMC	CON-03A	ı	X-	
	Test software		MTS8310	WSCT	- /	15	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025	
	LISN	AFJ	LS16	16010222119	11/05/2024	11/04/2025	\wedge
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	'5 C
/	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025	
Ź	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	\wedge
	Pre Amplifier	H.P.ET	HP8447E 5 /	2945A02715	11/05/2024	11/04/2025	15 C
	Pre-Amplifier	CDSI	PAP-1G18-38	-	11/05/2024	11/04/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2024	11/04/2025	
Ż	9*6*6 Anechoic	ET V	YS CT .	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	/ E /
	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	
4	Turn Table	ccs	V5 / 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	-	11/05/2024	11/04/2025	
	Loop Antenna	EMCO	6502W5 L	00042960	11/05/2024	11/04/2025	15 C
/	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2024	11/04/2025	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2024	11/04/2025	
7	Power sensor	Anritsu	MX248XD	WSET	11/05/2024	11/04/2025	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2024	11/04/2025	X

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Test Results and Measurement Data 6.

6.1. Antenna requirement

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Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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

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

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

E.U.T Antenna:

The Bluetooth antenna is a PCB Antenna. it meets the standards, and the best case gain of the antenna is -4.22dBi...

Please refer to the attachment "XR1 Internal Photo" for the antenna location

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6.2. Conducted Emission

6.	2.1. Test Specification		
\times	Test Requirement:	FCC Part15 C Section 15.207	
WSCT	Test Method: 5	ANSI C63.10:2014 W5 [7] W5 [7]	
ZW2/5/	Frequency Range:	150 kHz to 30 MHz	$\overline{}$
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	
	WSET WSE	WS CT WS CT WS	ET
		Frequency range Limit (dBuV) (MHz) Quasi-peak Average	
	Limits:	(MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46*	
WSET	WSET	ws 0.5-5 ws 56 465 7	
		5-30 60 50	
	X	Reference Plane	X
	WSET WSE	40cm 10cm LISN	ET.
			77.
X	\times	E.U.T Adapter Filter AC power	
	Test Setup:	[EMI]	
W5 CT	WS ET	Test table/Insulation plane	
		Test table/insulation plane	
		Remark	
	WS CT WS C	E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	ET
\sim	Test Mode:	Charging + Transmitting Mode	
W5CT*	WSET	1. The E.U.T is connected to an adapter through a line impedance stabilization 5 network (L.I.S.N.).5 This	
		provides a 50ohm/50uH coupling impedance for the	
	\times	measuring equipment.	X
		2. The peripheral devices are also connected to the main	
	WSCT WSC	power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please	7.9.A
\times	Test Procedure:	refer to the block diagram of the test setup and	
		photographs).	
W5 CT	WS ET	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	
	WSCT	ANSI C63.10:2014 on conducted measurement.	T)
	Test Result:	PASS	Gromb(





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6.2.2. EUT OPERATING CONDITIONS

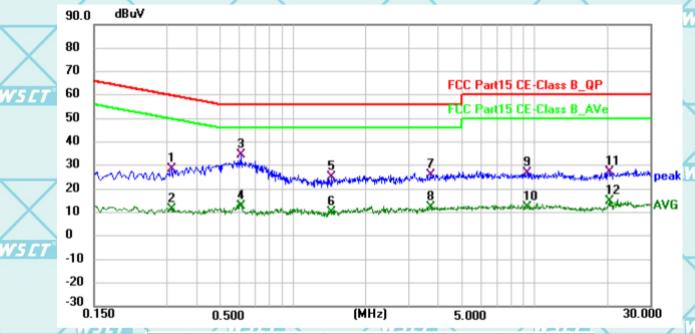
The EUT is working in the Normal link mode. All modes have been tested and normal link mode is

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)

The worst mode is GFSK



Reading Factor Margin Frequency Level Limit Detector No. (dBuV) (MHz) (dB) (dBuV) (dBuV) (dB) 7.84 31.46 QP 0.3120 20.62 28.46 59.92 1 0.3120 -9.45 20.62 11.17 49.92 -38.75 AVG 2 QP 3 0.6090 13.99 20.53 34.52 56.00 -21.48 4 0.6090 -7.71 20.53 46.00 -33.18 AVG 12.82 5 1.4415 4.33 20.64 24.97 56.00 -31.03 QP 6 1.4415 -10.7120.64 9.93 46.00 -36.07 AVG 7 3.7320 5.35 20.59 25.94 56.00 -30.06 QP 8 3.7320 20.59 12.42 46.00 -33.58 AVG -8.179 9.3255 6.54 20.46 27.00 60.00 -33.00 QP 10 9.3255 -8.43 20.46 12.03 50.00 -37.97 AVG 11 20.3190 6.87 20.28 27.15 60.00 -32.85 QP

20.28

NS C

12

-5.58

20.3190

14.70

AVG

-35.30

50.00





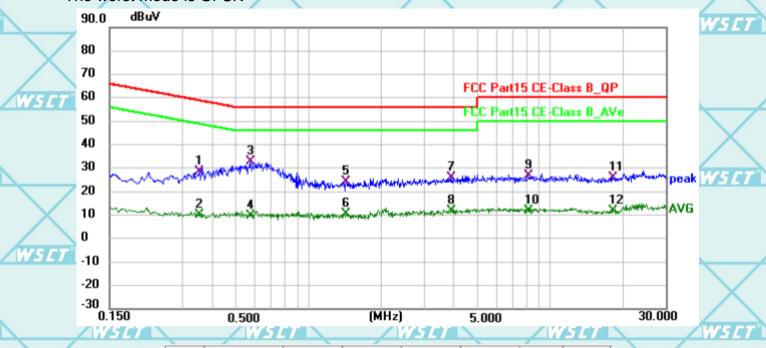
W5C



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

The worst mode is GFSK



Factor

20.49

20.23

20.23

Level

No. Detector (dBuV) (dB) (dBuV) (dB) (MHz) (dBuV) 0.3525 7.81 20.60 28.41 58.90 -30.49 QP 1 2 0.3525 -38.70 AVG -10.4020.60 10.20 48.90 3 0.5730 12.15 20.52 32.67 56.00 -23.33 QP -36.24 4 0.5730 -10.7620.52 9.76 46.00 AVG 5 1.4325 3.70 20.64 24.34 56.00 -31.66 QP W5 CI 46.00 -35.67 AVG 6 1.4325 -10.3120.64 10.33 7 -30.02 3.8895 5.40 20.58 25.98 56.00 QP 3.8895 20.58 46.00 -34.02 AVG 8 -8.60 11.98 9 6.10 20.49 26.59 60.00 -33.41 QP 8.0834

-8.54

5.66

-8.35

Reading

Frequency

8.0834

18.0869

18.0869

11.95

25.89

11.88

AVG

QP

AVG

10

11

12

50.00

60.00

50.00

Limit

Margin

-38.05

-34.11

-38.12

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6.3. Conducted Output Power

6.3.1. Test Specification W5 ET

(WSET)

WSET

W5CT

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

W5 [6.3.2. Test Data 5 []

WSET

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	BLE 1M	1		
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	W
Lowest	6.76	30.00	PASS	
Middle	7.36	30.00	PASS	
Highest	7.745 57	30.00	PASS [7]	
BLE 2M				
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	Tes
Lowest	6.81	30.00	PASS	T COU
Middle	7.3	30.00	PASS W5	[7°
Highest	7.68	30.00	PASS	
	Lowest Middle Highest Test channel Lowest Middle	Test channel Maximum Conducted Output Power (dBm) Lowest 6.76 Middle 7.36 Highest 7.74 BLE 2N Test channel Maximum Conducted Output Power (dBm) Lowest 6.81 Middle 7.3	Comput Power (dBm) Comput (dBm)	Test channel Maximum Conducted Output Power (dBm) Limit (dBm) Result Lowest 6.76 30.00 PASS Middle 7.36 30.00 PASS Highest 7.74 30.00 PASS BLE 2M Test channel Maximum Conducted Output Power (dBm) Limit (dBm) Result Lowest 6.81 30.00 PASS Middle 7.3 30.00 PASS

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: fendbing.wang@wscf-cert.com Http://www.wscf-cert.com

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WSET

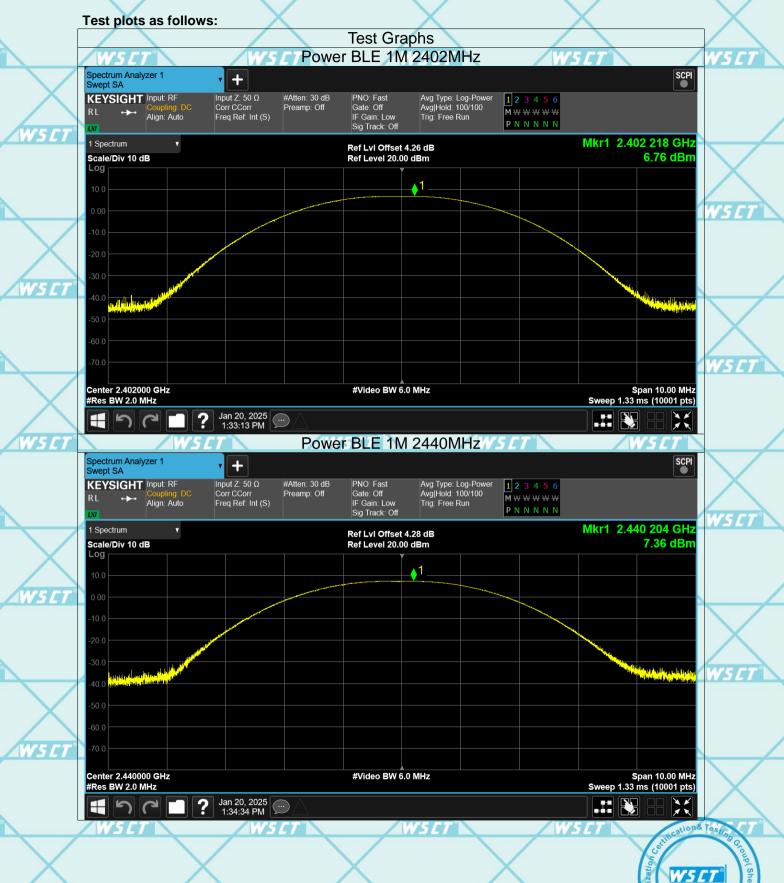






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W5 CT



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W5 CT Power BLE 2M 2440MHz Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 100/100 Trig: Free Run Input Z: 50 Ω KEYSIGHT Input: RF #Atten: 30 dB PNO: Fast 1 2 3 4 5 6 Gate: Off IF Gain: Low Corr CCorr Freq Ref: Int (S) Preamp: Off M ₩ ₩ ₩ ₩ Align: Auto Sig Track: Off Mkr1 2.440 470 GHz 1 Spectrum Ref Lvi Offset 4.28 dB Ref Level 20.00 dBm 7.30 dBm Scale/Div 10 dB **▲**1 Center 2.440000 GHz #Res BW 2.0 MHz #Video BW 6.0 MHz Span 10.00 MHz Sweep 1.33 ms (10001 pts) Jan 20, 2025 1:27:24 PM Power BLE 2M 2478MHz SCPI Spectrum Analyzer 1 + #Atten: 30 dB Preamp: Off Input Z: 50 Ω KEYSIGHT Input: RF PNO: Fast Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) M ₩ ₩ ₩ ₩ Align: Auto IF Gain: Low Sig Track: Off Trig: Free Run Mkr1 2.478 429 GHz Ref LvI Offset 4.33 dB Ref Level 20.00 dBm 7.68 dBm Scale/Div 10 dB The state of the s

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#Video BW 6.0 MHz

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Jan 20, 2025 1:29:51 PM

Center 2.478000 GHz #Res BW 2.0 MHz

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Span 10.00 MHz Sweep 1.33 ms (10001 pts)







Report No.: WSCT-ANAB-R&E250100004A -LE

6.4. Emission Bandwidth

6.4.1. Test Specification V5 51

WS ET

W5 CT

W5 C1

W5C7

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
W5ET	Test Method:	KDB558074 W5 LT W5 LT	
	Limit:	>500kHz	\times
	Test Setup:		WSET
		Spectrum Analyzer EUT	
WSET	Test Mode:	Refer to item 4.1	
	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 	WSET
WSET		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. 4. Measure and record the results in the test report.	
	Test Result:	PASS PASS	\triangle
	/ W-51-9-1	WSIGN	WSLT

W5 C1 W5 C7 W5 C W5 CT

W5 ET

W5 ET

W5 ET

W5 E1

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W5 CT

W5ET





Report No.: WSCT-ANAB-R&E250100004A -LE

W5CT°

6.4.2. Test data

В	LE 1M	WELT	W.	7.72	W 5
egraphise	Test channel	6dB Emi	ission Bandwidth (kHz)	44
X	rest channel	BT LE mode	Limit	Result	
V5 CT	Lowest	0.649	>500k	WSCT	
	Middle	0.647	>500k	PASS	
	Highest	0.663	>500k		

BLE 2M 6dB Emission Bandwidth (kHz) Test channel BT LE mode Limit Result WS CT Lowest 1.099 >500k WS C1 Middle 1.087 >500k **PASS** 1.105 >500k Highest

Test plots as follows:

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		V		
X	X		X	_

W5CT°	WSCT	WSET	WSET	W5 CT

WSET® WSET® WSET®	V5 CT	W5 CT "
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W5CT°	WSET	WSET	WSET	W5CT

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7			WSET	/ /	STATE	Ser ou	

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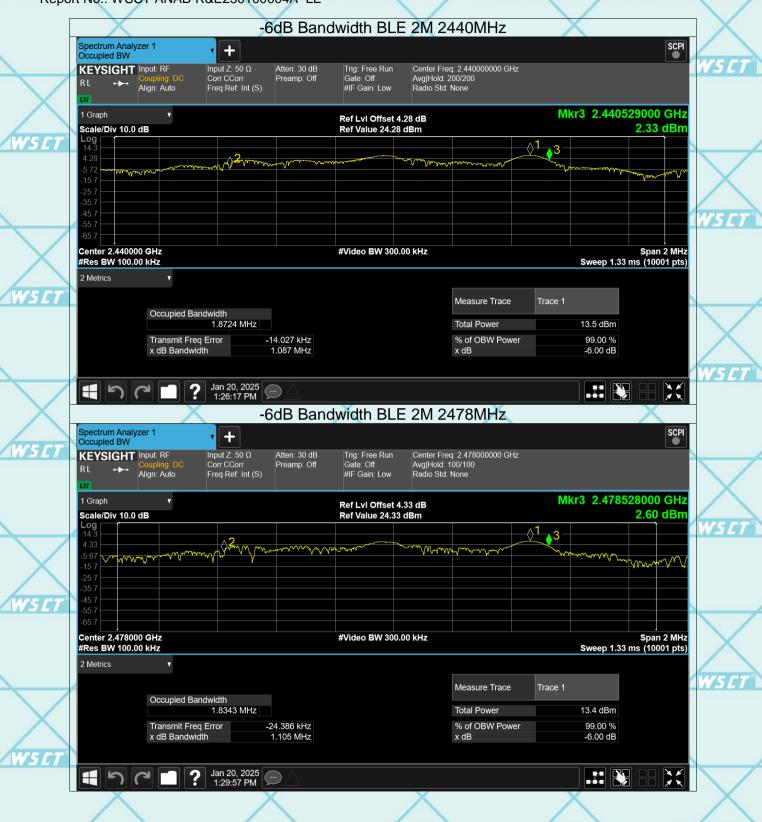
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W5 CT



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6.5. Power Spectral Density

6.5.1. Test Specification

	WSFT WSF	T WSIT	WSET
∇	Test Requirement:	FCC Part15 C Section 15.247 (e)	
	Test Method:	KDB558074	
WSET°	Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.	
$\overline{}$	Test Setup:	Spectrum Analyzer EUT	W5ET*
Week	Test Mode:	Refer to item 4.1	
WSCT	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. 	WSCT
	Test Result:	PASS	X

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6.5.2. Test data

WS E1

	Test channel	Power Spectral D	ensity (dBm/3kF	Hz)	W5 L
	rest chamilei	BLE 1M	Limit	Result	
	Lowest	6.08	8 dBm/3kHz		
'5 C T "	Middle	6.72	8 dBm/3kHz	PASS	
	Highest	6.95	8 dBm/3kHz		\times

Toot channel		Power Spectral Density (dBm/3kHz)			
	Test channel	BLE 2M	Limit	Result	
	Lowest	6.7	8 dBm/3kHz		
	Middle	W 2.97	8 dBm/3kHz	PASS	
	Highest	7.58	8 dBm/3kHz		

Test plots as follows: WS CT W5C1 W5 C7 W5 E1 WSE W5 CT WS ET W5 ET W5E1 W5C1 WS C WS CI W5C W5 CI W5 CT

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WS ET

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W5 C1





WSET



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6.6. Conducted Band Edge and Spurious Emission Measurement

6.	6.1. Test Specification	WSET WSET	W5 CT
	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).	WS ET
ET"	Test Setup:	Spectrum Analyzer EUT	WS ET
/	Test Mode:	Refer to item 4.1	
ET"	Test Procedure:	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	WSCT
	Test Result:	PASS	X

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Report No.: WSCT-ANAB-R&E250100004A -LE Band Edge BLE 2M 2478MHz Ref SCPI Spectrum Analyzer 1 + Input Z: 50 Ω #Atten: 30 dB Preamp: Off PNO: Best Wide Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF **1 2 3 4 5** 6 Corr CCorr ____ M ₩ ₩ ₩ ₩ Align: Auto Freq Ref: Int (S) IF Gain: Low Sig Track: Off Trig: Free Run 1 Spectrum Mkr1 2.478 464 GHz Ref LvI Offset 4.33 dB Ref Level 20.00 dBm 7.58 dBm Scale/Div 10 dB /V/V/m MMMMMM 75 C 1 marhones Center 2.478000 GHz #Res BW 100 kHz Span 8.000 MHz Sweep 1.00 ms (1001 pts) #Video BW 300 kHz Jan 20, 2025 1:30:06 PM ⊞ Band Edge BLE 2M 2478MHz Emission Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 100/100 Trig: Free Run Input Z: 50 Ω #Atten: 30 dB PNO: Fast KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off M ₩ ₩ ₩ ₩ Align: Auto PNNNNN Mkr1 2.478 5 GHz Ref Lvl Offset 4.33 dB 7.57 dBm Scale/Div 10 dB Ref Level 20.00 dBm DI 1 -12 42 dE **∆**3 Start 2.47400 GHz #Video BW 300 kHz Stop 2.57400 GHz #Res BW 100 kHz Sweep 9.60 ms (1001 pts) 5 Marker Table Function Width Function Value Mode Scale Function -58.93 dBm -57.65 dBm -55.48 dBm 2.483 5 GHz 2.500 0 GHz 2.484 9 GHz Ν 5 Jan 20, 2025 1:30:09 PM

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World Standardization Certification & Testing Group (Shenzhen) Co..ltd. **ac-MRA** WSEI Report No.: WSCT-ANAB-R&E250100004A -LE Conducted RF Spurious Emission Test Graphs Tx. Spurious BLE 1M 2402MHz Ref Spectrum Analyzer 1 Swept SA SCPI + 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 M ₩ ₩ ₩ ₩ Align: Auto PNNNNN Mkr1 2.402 229 5 GHz Ref LvI Offset 4.26 dB Ref Level 20.00 dBm 6.71 dBm Scale/Div 10 dB

Center 2.4020000 GHz #Res BW 100 kHz Span 1.500 MHz Sweep 1.00 ms (1001 pts) #Video BW 300 kHz Jan 20, 2025 1:32:36 PM Tx. Spurious BLE 1M 2402MHz Emission 15 C I SCPI Spectrum Analyzer 1 + wept SA Input Z: 50 Ω Avg Type: Log-Power Avg|Hold: 10/10 KEYSIGHT Input: RF #Atten: 30 dB PNO: Fast 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) ____ M ₩ ₩ ₩ ₩ ₩ Align: Auto IF Gain: Low Sig Track: Off Trig: Free Run PNNNN Mkr1 2.402 6 GHz Ref Lvl Offset 4.26 dB 6.62 dBm Ref Level 20.00 dBm DL1 13.29 dB **∆**5 Start 30 MHz #Video BW 300 kHz Stop 26.50 GHz #Res BW 100 kHz Sweep ~2.53 s (30001 pts)

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Jan 20, 2025 1:33:07 PM

2.402 6 GHz

4.804 3 GHz 4.804 3 GHz 4.804 3 GHz 7.206 9 GHz 9.433 9 GHz

5 Marker Table

Mode

N N

Trace

Scale

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Function Value

6.62 dBm

-16.07 dBm -16.07 dBm -45.92 dBm

Function

Function Width





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6.7. Radiated Spurious Emission Measurement

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6.	7.1. Test Specification	Wall Wall W	VSLI
\sim	Test Requirement:	FCC Part15 C Section 15.209	
	. /		
W5CT°	Test Method:	ANSI C63.10:2014	
	Frequency Range:	9 kHz to 25 GHz	egraphise
	Measurement Distance:	3 m	\wedge
	Antenna Polarization: W5 [7]	Horizontal & Vertical W5 [7]	V5 CT
	Operation mode:	Refer to item 4.1	
		Frequency Detector RBW VBW Remark	
W5CT"	WS CT [®]	9kHz- 150kHz Quasi-peak 200Hz 1kHz Quasi-peak Value	
	Receiver Setup:	150kHz- Quasi-peak 9kHz 30kHz Quasi-peak Value	
	X X	30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-peak Value	X
		Above 1GHz Peak 1MHz 3MHz Peak Value	
$\overline{}$	WSET* WSET	Peak 1MHz 10Hz Average Value	NS CT
		Field Strength Measurement	
		Frequency (microvolts/meter) Distance (meters)	
		0.009-0.490 2400/F(KHz) 300	
AWS CT	WSET	0.490-1.705 24000/F(KHz) 30	
		1.705-30 30 30	\/
		30-88 100 3 88-216 150 3	\wedge
	Limit:	245,050	
$\overline{}$	LIMIS ET WS E1	Above 960 500 3	NS CT
		Field Strength Measurement	
WSET	WSET	Frequency (microvolts/meter) Distance (meters) Detector	
		500 3 Average	
	\times	Above 1GHz 5000 3 Peak	X
	WSET WSET	For radiated emissions below 30MHz	WS ET
		Distance = 3m	
X	X	tonpute	
Augus	THE COLUMN TWO IS NOT	Pre -Amplifier	
WS CT"	Test setup: W5 [7]		

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30MHz to 1GHz

W5E7

Ground Plane

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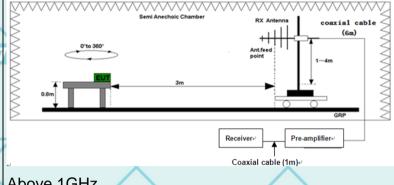
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Above 1GHz

Coaxial cable (1m)

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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Test Procedure:



Report No.: WSCT-ANAB-R&E250100004A -LE 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 detector and reported. 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: VBW ≥RBW:</p> Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f \Box 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Test mode: Refer to section 4.1 for details Test results: PASS Note: Freq. = Emission frequency in MHz Reading level (dBµV) = Receiver reading WSE Corr. Factor (dB) = Attenuation factor + Cable loss Level (dBµV) = Reading level (dBµV) + Corr. Factor (dB) Limit (dBµV) = Limit stated in standard Margin (dB) = Level (dB μ V) - Limits (dB μ V)

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Report No.: WSCT-ANAB-R&E250100004A -LE

6.7.2. Test Data(Worst case)

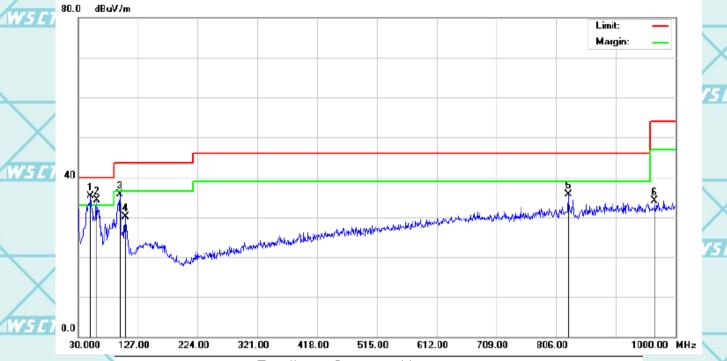
Please refer to following diagram for individual

Below 1GHz

AWS ET

The worst mode is BLE 1M

Horizontal:



/	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
5			MHz	dBu∀	dΒ	dBuV/m	dBuV/m	dΒ	Detector
	1	*	50.3700	37.48	-2.14	35.34	40.00	-4.66	QP
	2	ļ	60.0700	37.22	-2.82	34.40	40.00	-5.60	QP
	3		97.9000	41.42	-5.68	35.74	43.50	-7.76	QP
>	4	,	106.6300	35.04	-4.90	30.14	43.50	-13.36	QP
	5	1	325.4000	29.23	6.45	35.68	46.00	-10.32	QP
•	6	!	966.0500	25.89	8.23	34.12	54.00	-19.88	QP

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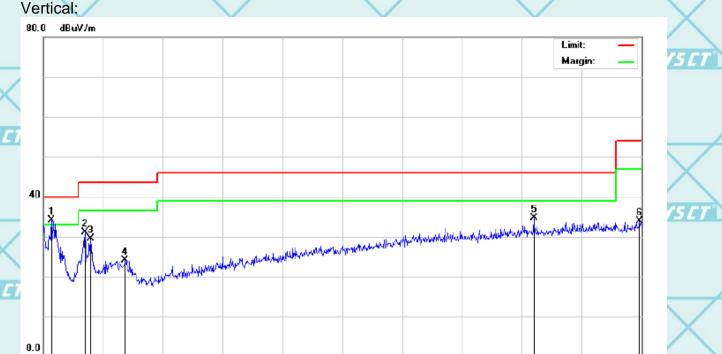
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Report No.: WSCT-ANAB-R&E250100004A -LE



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
ľ			MHz	dBuV	dΒ	dBuV/m	dBuV/m	dΒ	Detector
	1	*	43.5800	36.07	-1.88	34.19	40.00	-5.81	QP
>	2		97.9000	36.75	-5.68	31.07	43.50	-12.43	QP
	3		106.6300	34.47	-4.90	29.57	43.50	-13.93	QP
2	4		162.8900	26.02	-2.00	24.02	43.50	-19.48	QP
	5		825.4000	28.32	6.45	34.77	46.00	-11.23	QP
	6		997.0900	25.40	8.51	33.91	54.00	-20.09	QP

515.00

612.00

709.00

806.00

Note1:

30.000

127.00

224.00

321.00

418.00

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)

1000.00 MHz

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Report No.: WSCT-ANAB-R&E250100004A -LE

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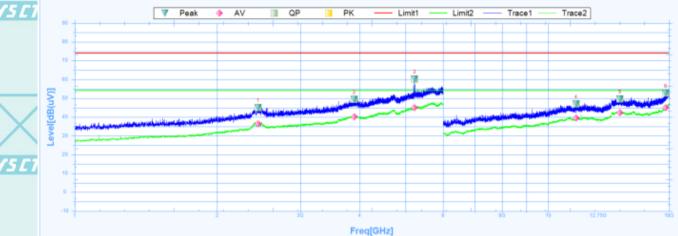
Above 1GHz(The worst mode is BLE 1M)

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.

Low channel: 2402MHz

Horizontal:



V5 ET

Susputed Data List Reading Factor Level Limit Margin Deg NO. Polarity **Trace** Verdict [dB(uV)] [MHz] [dB] [dB(uV)] [dB] [dB] [°] 2440.6250 44.98 7.71 37.27 74 -29.02 3.5 Horizontal PK Pass 2440.6250 36.3 7.71 28.59 54 -17.7 3.5 ΑV Pass Horizontal 3896.8750 49.44 11.7 37.74 74 -24.56 75 Horizontal PΚ Pass 40.23 28.53 54 -13.77 75 ΑV Pass 3896.8750 11.7 Horizontal 5221.8750 60.33 18.62 41.71 74 -13.67 3.5 PK Pass Horizontal 5221.8750 44.94 18.62 26.32 54 -9.06 Horizontal ΑV Pass 11454.0000 46.91 39.09 7.82 74 -27.09 15 Horizontal PK Pass 54 -14.61 15 ΑV 11454.0000 39.39 39.09 0.3 Horizontal Pass 14178.0000 49.72 41.27 8.45 74 -24.28 261 Horizontal PK Pass 5 14178.0000 Pass 42.37 41.27 54 -11.63 261 ΑV 1.1 Horizontal 17707.5000 52.74 44.54 8.2 74 -21.26 208.4 Horizontal PK Pass 6 17707.5000 44.93 44.54 0.39 54 -9.07 208.4 Horizontal ΑV Pass

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Vertical:



5 <i>C 1</i>	Suspu	ted Data Lis	st								
, , ,	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1394.3750	38.96	25.08	13.88	74	-35.04	360.1	Vertical	PK	Pass
	1	1394.3750	29.86	25.08	4.78	54	-24.14	360.1	Vertical	AV	Pass
	2	2438.7500	48.66	27.39	21.27	74	-25.34	81.8	Vertical	PK	Pass
	2	2438.7500	37.84	27.39	10.45	54	-16.16	81.8	Vertical	AV	Pass
X	3	3875.0000	49.74	29.4	20.34	74	-24.26	233.7	Vertical	PK	Pass
	3	3875.0000	40.66	29.4	11.26	54	-13.34	233.7	Vertical	AV	Pass
SCI	4	7162.5000	36.7	7.01	29.69	74	-37.3	285.4	Vertical	PK	Pass
	4	7162.5000	28.89	7.01	21.88	54	-25.11	285.4	Vertical	AV	Pass
	5	10975.5000	43.95	15.48	28.47	74	-30.05	182.6	Vertical	PK	Pass
	5	10975.5000	37.03	15.48	21.55	54	-16.97	182.6	Vertical	AV	Pass
	6	14295.0000	49.33	18.83	30.5	74	-24.67	106.1	Vertical	PK	Pass
	6	14295.0000	41.28	18.83	22.45	54	-12.72	106.1	Vertical	AV	Pass

	ľ	14293.0000	41.20	10.03	22.40	34	-12.72	100.1	Verucai	Av	FdSS	
WSG		/	WSET		WSE		W	SET		WS	778	
		VS CT		W5 CT		WSE			WSG			VS ET
WSEI			WSET		WSG			SET		WS	77	
		VS CT		WSEI		WSE		,	WSG		acation& Te	
Wester			WEET		West.					abrdization Con	W5C1	Sing Group (Shenzhe

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W5ET





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W5 CT

Middle channel: 2440MHz Horizontal:



W5[T]

W5 E

W5 E

Z	Susputed Data List													
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict			
	1	2453.1250	47.75	7.75	40	74	-26.25	78.2	Horizontal	PK	Pass			
	1	2453.1250	37.9	7.75	30.15	54	-16.1	78.2	Horizontal	AV	Pass	Ú		
	2	3871.8750	50.65	11.5	39.15	74	-23.35	238.4	Horizontal	PK	Pass			
	2	3871.8750	41.4	11.5	29.9	54	-12.6	238.4	Horizontal	AV	Pass			
	3	5656.2500	57.01	21.07	35.94	74	-16.99	334	Horizontal	PK	Pass			
3	3	5656.2500	48.15	21.07	27.08	54	-5.85	334	Horizontal	AV	Pass			
24	4	11745.0000	45.96	38.83	7.13	74	-28.04	251.9	Horizontal	PK	Pass			
	4	11745.0000	40.41	38.83	1.58	54	-13.59	251.9	Horizontal	AV	Pass			
	5	14124.0000	49.55	41.34	8.21	74	-24.45	132.4	Horizontal	PK	Pass			
	5	14124.0000	41.72	41.34	0.38	54	-12.28	132.4	Horizontal	AV	Pass			
	6	17916.0000	52.29	45.94	6.35	74	-21.71	359.6	Horizontal	PK	Pass	3		
,	6	17916.0000	45.7	45.94	-0.24	54	-8.3	359.6	Horizontal	AV	Pass			

W5 C W5 CI W5 E1 W5 C W5C1 W5 CT

W5C1 WS ET WS CT W5 E1

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W5CT

W5C1

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W5 CT

Report No.: WSCT-ANAB-R&E250100004A -LE Vertical:



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W5 C

·	Susputed Data List												
7	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict		
	1	2440.0000	47.85	7.71	40.14	74	-26.15	360.1	Vertical	PK	Pass		
	1	2440.0000	37.85	7.71	30.14	54	-16.15	360.1	Vertical	AV	Pass		
	2	3868.7500	50.05	11.47	38.58	74	-23.95	124.8	Vertical	PK	Pass		
	2	3868.7500	41.52	11.47	30.05	54	-12.48	124.8	Vertical	AV	Pass		
	3	5676.2500	57.74	21.17	36.57	74	-16.26	167.9	Vertical	PK	Pass		
•	3	5676.2500	47.99	21.17	26.82	54	-6.01	167.9	Vertical	AV	Pass		
Ţ	4	10975.5000	44.97	39.47	5.5	74	-29.03	232.8	Vertical	PK	Pass		
_	4	10975.5000	37.1	39.47	-2.37	54	-16.9	232.8	Vertical	AV	Pass		
	5	14247.0000	49.7	41.18	8.52	74	-24.3	164.7	Vertical	PK	Pass		
	5	14247.0000	41.61	41.18	0.43	54	-12.39	164.7	Vertical	AV	Pass		
	6	17896.5000	53.4	45.81	7.59	74	-20.6	191	Vertical	PK	Pass		
	6	17896.5000	45.77	45.81	-0.04	54	-8.23	191	Vertical	AV	Pass		

WSET	W5 CT	WSCT	WSET	WSCT	
WS	CT WS	CT WS	CT W.	TET WS	17
WSET	WSET	WSET	WSCT	WSCT	

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W5ET





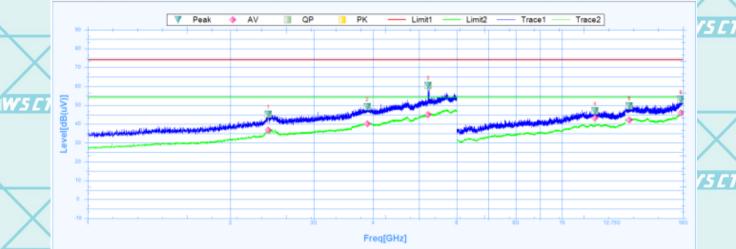
Report No.: WSCT-ANAB-R&E250100004A -LE

W5 CT

W5 [T]

High channel: 2480MHz

Horizontal:



W5 E

W5 E

L	Suspu	Susputed Data List													
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	1			
	1	2402.5000	45.32	7.58	37.74	74	-28.68	-0.1	Horizontal	PK	Pass				
	1	2402.5000	36.81	7.58	29.23	54	-17.19	-0.1	Horizontal	AV	Pass	1			
	2	3886.8750	49.18	11.63	37.55	74	-24.82	280.6	Horizontal	PK	Pass				
	2	3886.8750	40.21	11.63	28.58	54	-13.79	280.6	Horizontal	AV	Pass				
	3	5223.7500	60.42	18.65	41.77	74	-13.58	210.1	Horizontal	PK	Pass				
¥	3	5223.7500	45.05	18.65	26.4	54	-8.95	210.1	Horizontal	AV	Pass				
	4	11745.0000	46.92	38.83	8.09	74	-27.08	111.5	Horizontal	PK	Pass				
	4	11745.0000	43.19	38.83	4.36	54	-10.81	111.5	Horizontal	AV	Pass				
	5	13869.0000	49.66	41.16	8.5	74	-24.34	359.9	Horizontal	PK	Pass				
	5	13869.0000	42.08	41.16	0.92	54	-11.92	359.9	Horizontal	AV	Pass				
	6	17820.0000	52.99	45.29	7.7	74	-21.01	287.2	Horizontal	PK	Pass	1			
/	6	17820.0000	45.87	45.29	0.58	54	-8.13	287.2	Horizontal	AV	Pass				

W5 E1 W5 CI

> W5C1 WS ET WS CT W5 E1

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W5C1



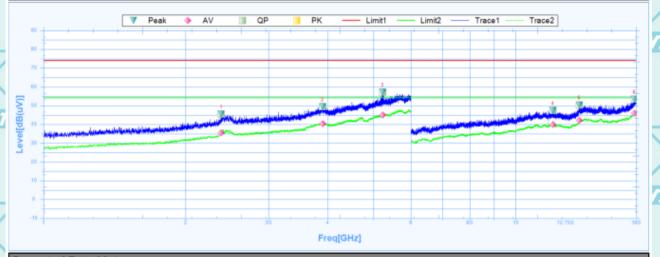




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W5 CT

Vertical:



Suspu	usputed Data List									
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2378.7500	45.38	6.93	38.45	74	-28.62	0	Vertical	PK	Pass
1	2378.7500	35.58	6.93	28.65	54	-18.42	0	Vertical	AV	Pass
2	3900.0000	49.51	11.73	37.78	74	-24.49	356.2	Vertical	PK	Pass
2	3900.0000	40.38	11.73	28.65	54	-13.62	356.2	Vertical	AV	Pass
3	5224.3750	57.2	18.66	38.54	74	-16.8	3	Vertical	PK	Pass
3	5224.3750	45.04	18.66	26.38	54	-8.96	3	Vertical	AV	Pass
4	11989.5000	47.49	38.61	8.88	74	-26.51	81.8	Vertical	PK	Pass
4	11989.5000	39.95	38.61	1.34	54	-14.05	81.8	Vertical	AV	Pass
5	13629.0000	50.29	40.54	9.75	74	-23.71	24.4	Vertical	PK	Pass
5	13629.0000	42.12	40.54	1.58	54	-11.88	24.4	Vertical	AV	Pass
6	17836.5000	53.36	45.4	7.96	74	-20.64	12	Vertical	PK	Pass
6	17836.5000	45.89	45.4	0.49	54	-8.11	12	Vertical	AV	Pass
	NO. 1 1 2 2 3 3 4 4 5 5 6	NO. Freq. [MHz] 1 2378.7500 1 2378.7500 2 3900.0000 2 3900.0000 3 5224.3750 3 5224.3750 4 11989.5000 4 11989.5000 5 13629.0000 5 13629.0000 6 17836.5000	NO. [MHz] [dB(uV)] 1 2378.7500 45.38 1 2378.7500 35.58 2 3900.0000 49.51 2 3900.0000 40.38 3 5224.3750 57.2 3 5224.3750 45.04 4 11989.5000 47.49 4 11989.5000 39.95 5 13629.0000 50.29 5 13629.0000 42.12 6 17836.5000 53.36	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] 1 2378.7500 45.38 6.93 1 2378.7500 35.58 6.93 2 3900.0000 49.51 11.73 2 3900.0000 40.38 11.73 3 5224.3750 57.2 18.66 3 5224.3750 45.04 18.66 4 11989.5000 47.49 38.61 4 11989.5000 39.95 38.61 5 13629.0000 50.29 40.54 5 13629.0000 42.12 40.54 6 17836.5000 53.36 45.4	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] 1 2378.7500 45.38 6.93 38.45 1 2378.7500 35.58 6.93 28.65 2 3900.0000 49.51 11.73 37.78 2 3900.0000 40.38 11.73 28.65 3 5224.3750 57.2 18.66 38.54 3 5224.3750 45.04 18.66 26.38 4 11989.5000 47.49 38.61 8.88 4 11989.5000 39.95 38.61 1.34 5 13629.0000 50.29 40.54 9.75 5 13629.0000 53.36 45.4 7.96	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] 1 2378.7500 45.38 6.93 38.45 74 1 2378.7500 35.58 6.93 28.65 54 2 3900.0000 49.51 11.73 37.78 74 2 3900.0000 40.38 11.73 28.65 54 3 5224.3750 57.2 18.66 38.54 74 3 5224.3750 45.04 18.66 26.38 54 4 11989.5000 47.49 38.61 8.88 74 4 11989.5000 39.95 38.61 1.34 54 5 13629.0000 50.29 40.54 9.75 74 5 13629.0000 42.12 40.54 1.58 54 6 17836.5000 53.36 45.4 7.96 74	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] 1 2378.7500 45.38 6.93 38.45 74 -28.62 1 2378.7500 35.58 6.93 28.65 54 -18.42 2 3900.0000 49.51 11.73 37.78 74 -24.49 2 3900.0000 40.38 11.73 28.65 54 -13.62 3 5224.3750 57.2 18.66 38.54 74 -16.8 3 5224.3750 45.04 18.66 26.38 54 -8.96 4 11989.5000 47.49 38.61 8.88 74 -26.51 4 11989.5000 39.95 38.61 1.34 54 -14.05 5 13629.0000 50.29 40.54 9.75 74 -23.71 5 13629.0000 53.36 45.4 7.96 74 -20.64	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] Deg [°] 1 2378.7500 45.38 6.93 38.45 74 -28.62 0 1 2378.7500 35.58 6.93 28.65 54 -18.42 0 2 3900.0000 49.51 11.73 37.78 74 -24.49 356.2 2 3900.0000 40.38 11.73 28.65 54 -13.62 356.2 3 5224.3750 57.2 18.66 38.54 74 -16.8 3 3 5224.3750 45.04 18.66 26.38 54 -8.96 3 4 11989.5000 47.49 38.61 8.88 74 -26.51 81.8 4 11989.5000 39.95 38.61 1.34 54 -14.05 81.8 5 13629.0000 50.29 40.54 9.75 74 -23.71 24.4	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] Deg [°] Polarity 1 2378.7500 45.38 6.93 38.45 74 -28.62 0 Vertical 1 2378.7500 35.58 6.93 28.65 54 -18.42 0 Vertical 2 3900.0000 49.51 11.73 37.78 74 -24.49 356.2 Vertical 2 3900.0000 40.38 11.73 28.65 54 -13.62 356.2 Vertical 3 5224.3750 57.2 18.66 38.54 74 -16.8 3 Vertical 3 5224.3750 45.04 18.66 26.38 54 -8.96 3 Vertical 4 11989.5000 47.49 38.61 8.88 74 -26.51 81.8 Vertical 5 13629.0000 50.29 40.54 9.75 74 -23.71 24.4 Ver	NO. Freq. [MHz] Reading [dB(uV)] Factor [dB] Level [dB(uV)] Limit [dB] Margin [dB] Deg [°] Polarity Trace 1 2378.7500 45.38 6.93 38.45 74 -28.62 0 Vertical PK 1 2378.7500 35.58 6.93 28.65 54 -18.42 0 Vertical AV 2 3900.0000 49.51 11.73 37.78 74 -24.49 356.2 Vertical PK 2 3900.0000 40.38 11.73 28.65 54 -13.62 356.2 Vertical PK 3 5224.3750 57.2 18.66 38.54 74 -16.8 3 Vertical PK 3 5224.3750 45.04 18.66 26.38 54 -8.96 3 Vertical PK 4 11989.5000 47.49 38.61 8.88 74 -26.51 81.8 Vertical PK 5 13

Note:

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

	WS ET	WSET	W	SET	W5 CT	WSET
X		X	X	\times		X
WSET		WS CT	WSET	WSET	W	SET
	\times	\times			\mathbf{X}	\times
	W5 ET	WSET	W	SET	WSET	incationa Testino
						S Ground

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WSET





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WS CI

6.7.3. Restricted Bands Requirements

Test result for GESK Mode (the worst case)

	restresuit for GFSK Mode (the worst case)							
_	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
1	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
	Low Channel							
Z	2390	68.12	-8.76	59.36	74	-14.64	¥	PK
	2390	48.90	-8.76	40.14	54	-13.86	Н	AV
	2390	67.86	-8.73	59.13	74	-14.87	V	PK
_	2390	46.66	-8.73	37.93	54	-16.07	V/5	AV
/	High Channel							
\	2483.5	67.32	-8.76	58.56	74	-15.44	Н	PK
ý	2483.5	45.11	-8.76	36.35	54	-17.65	H	AV
	2483.5	67.26	-8.17	59.09	74	-14.91	V	PK
	2483.5	49.45	-8.17	41.28	54	-12.72	V	AV
	Note: Freq. – Emission frequency in MHz							

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 μ V) – Limits (dB μ V)

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

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WS CT NSCI WS CI W5 C1

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