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TEST REPORT

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FCC ID: 2AIZN-XR1 Product: AI Ring W577 Model No.: XR17 W577 Trade Mark: Infinix Report No.: WSCT-ANAB-R&E250100004A-15B [7] Issued Date: 19 February 2025 77

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

Issued for:5 [7]

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: +86-755-26996192

FAX: +86-755-86376605

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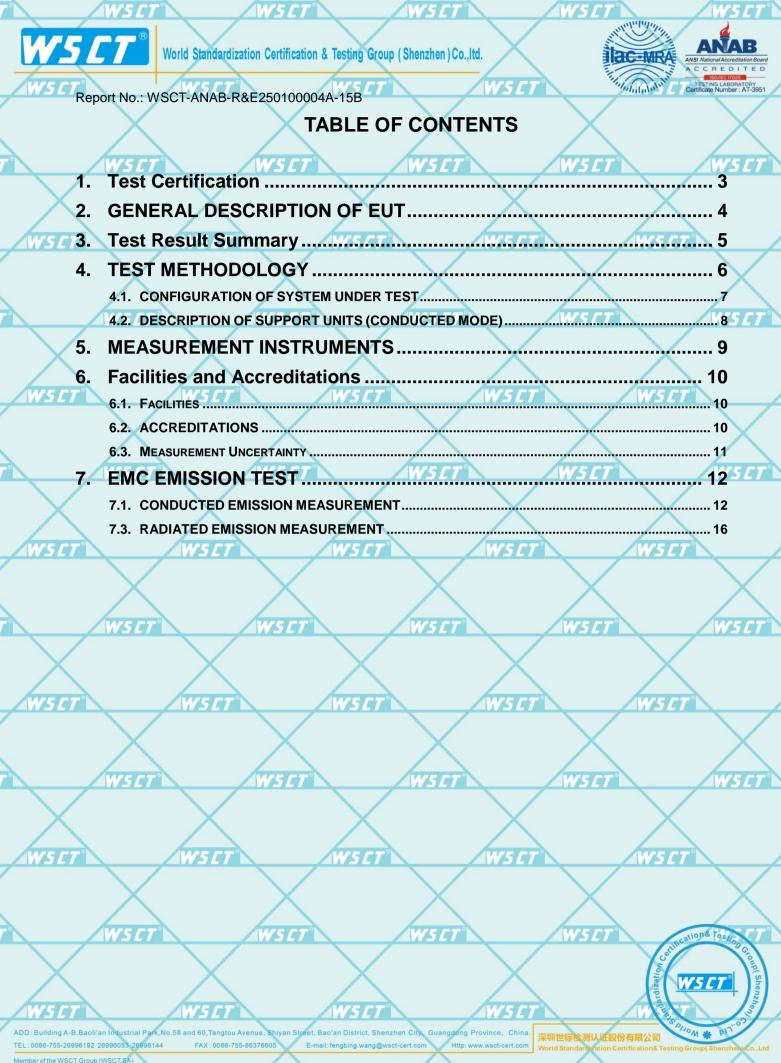
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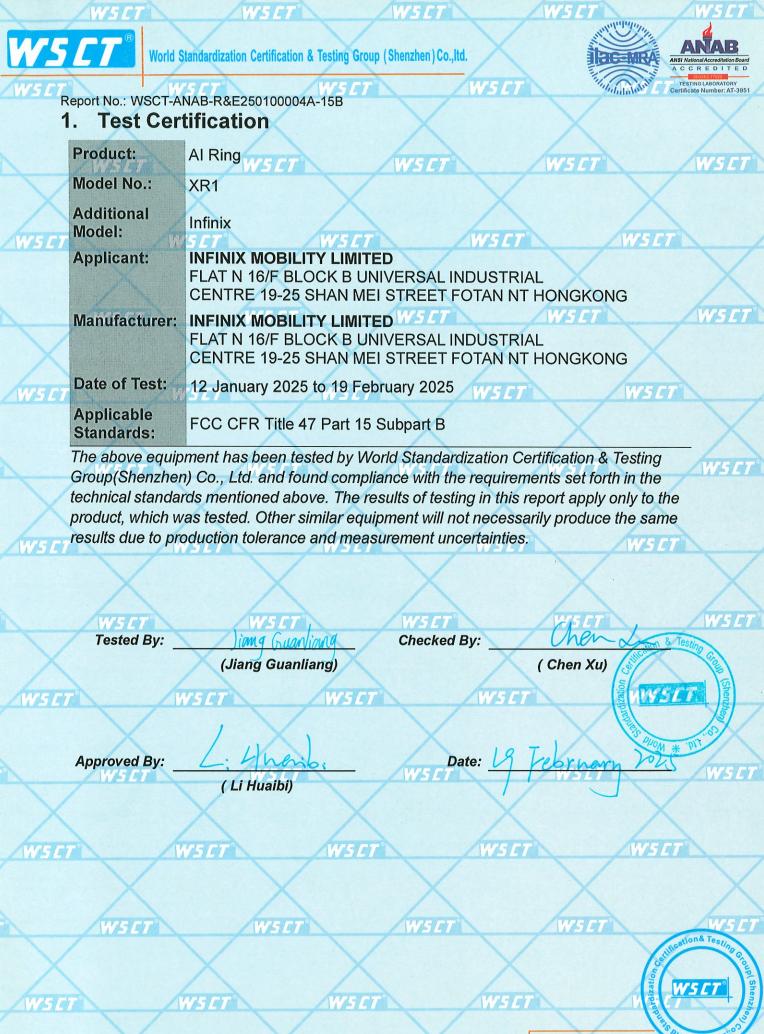


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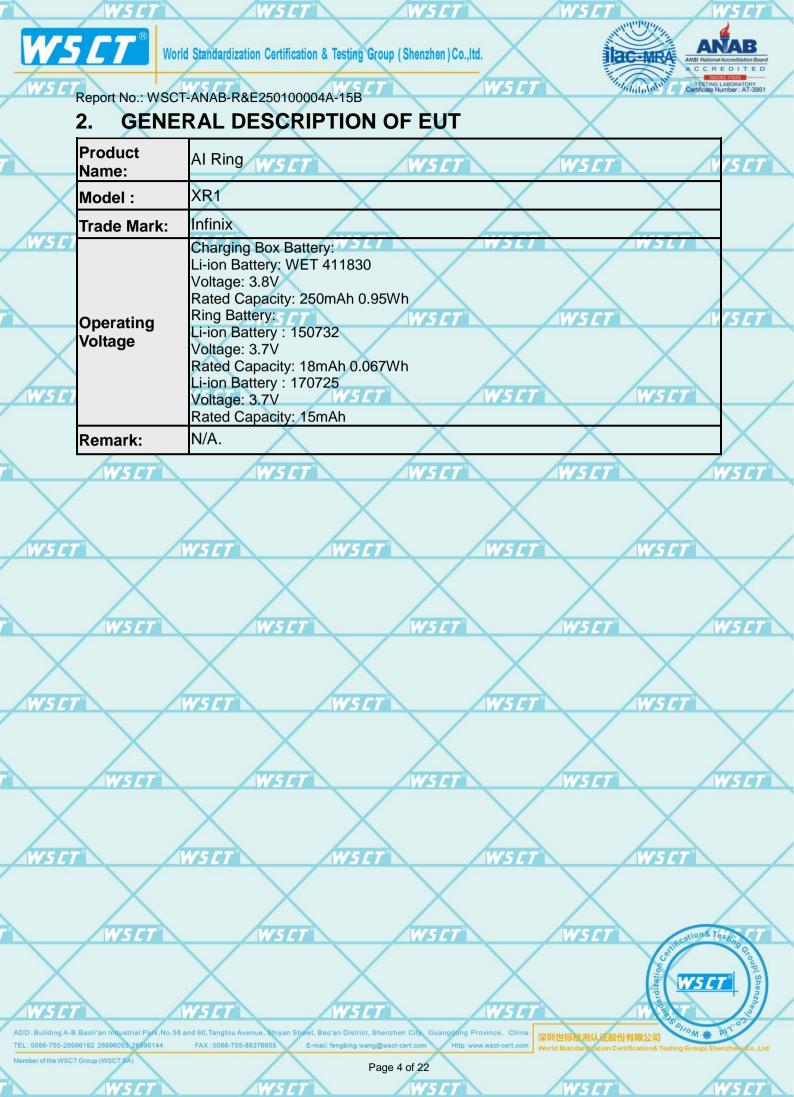
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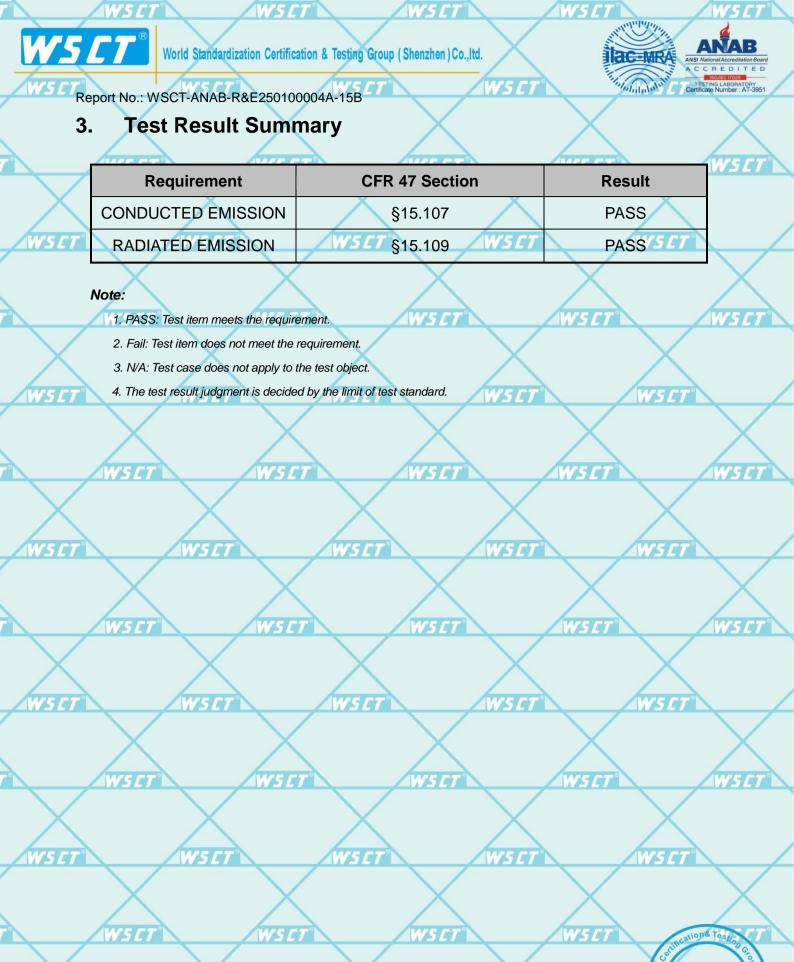


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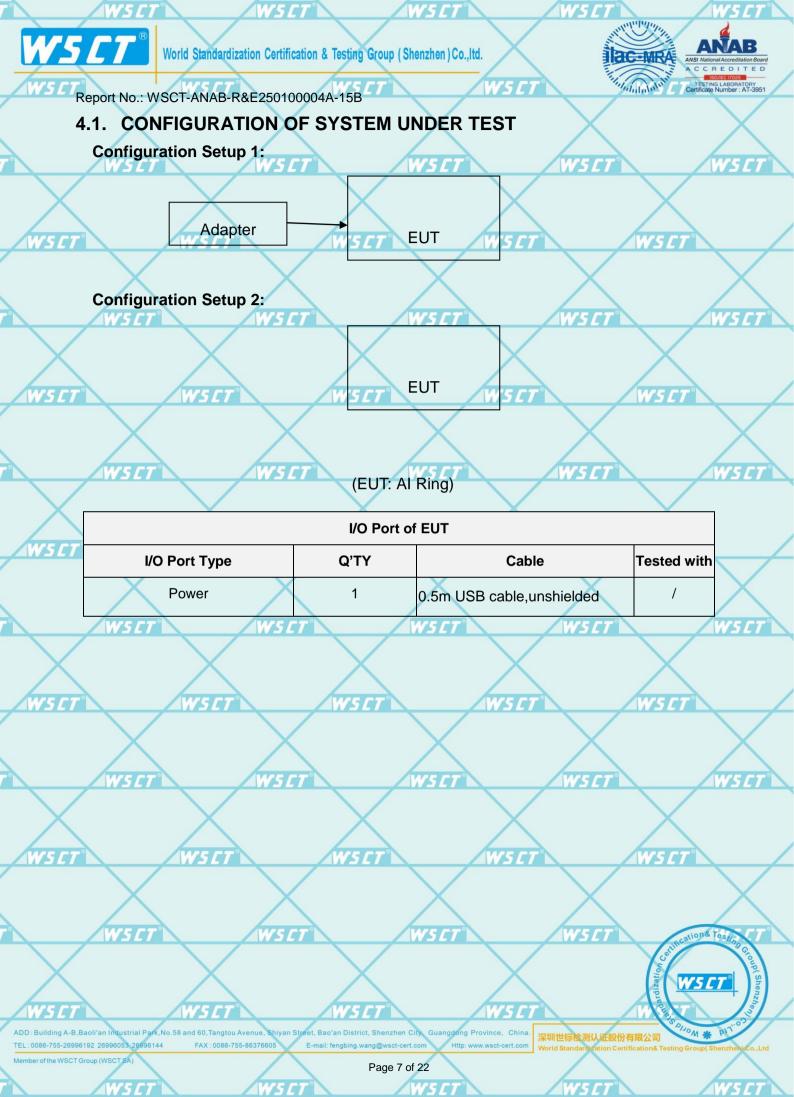
4. TEST METHODOLOGY

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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	Pretest Mode		Description		\wedge
r ws		SCT° W	Charging	WSCT	WSET
	Mode 2		Bluetooth		
				/	
WSET	WSET	WSLT	WSET	ws	c7 /
	X	\land /	\mathbf{X}	\mathbf{X}	
	5 <i>CT</i>	ISET W	SCT	WSLT	WSET
					/
	X				$\langle \rangle$
WSET	WSET	WS ET	WSET	ws	
	X	X	X	X	X
	5 <i>CT</i>	ISET W	527	WSET	WSET
X	X	X	X	\rightarrow	$\langle $
WSET	WSET	WSET	WSET	ws	
	X	X	X	X	X
	5 <i>CT</i> W	ISET W	5.27	WSET	WSET
X	X	X	X		$\langle \rangle$
WSET	WSET	WSET		W5	
	X	\times	X	X	X
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4.2. DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary WSCI accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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WSC	ltem	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	/	XCU32		/

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Note: The support equipment was authorized by Declaration of Confirmation. (1) (2) For detachable type I/O cable should be specified the length in cm in ^rLength₁ column.

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5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
	Test software		EZ-EMC	CON-03A		_	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025	
W5	T LISN W51	7 AFJ W	5 <i>CT</i> LS16	16010222119	11/05/2024	11/04/2025	/
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2024	11/04/2025	
	System Controller	WCTT	SC100 <i>5 [[</i> 7	<u> </u>	11/05/2024	11/04/2025	5 <i>CT</i> °
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2024	11/04/2025	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2024	11/04/2025	
ws.	Horn Antenna W51	SCHWARZBECK	5 <i>CT</i> 9120D	w1141 7	11/05/2024	11/04/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2024	11/04/2025	\square
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2024	11/04/2025	
	9*6*6 Anechoic	WSET	WSET	<u> </u>	11/05/2024	11/04/2025	SCT

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Facilities and Accreditations

6.1.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,

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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."

6.2. 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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6.3. Measurement Uncertainty

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based 15 C1 on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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WSET	No.	Item	MU	
	1	Conducted Emission Test	±3.2dB	$\mathbf{\mathbf{\nabla}}$
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	W5 <i>CT</i> 🔪
\mathbf{X}	4	All emissions, radiated(<1GHz)	±4.7dB	
WSET	5	All emissions, radiated(>1GHz)7 w5c7	±4.7dB/5_7	
	6	Temperature	±0.5°C	\mathbf{X}
	7	Humidity	±2.0%	WSIT



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EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

- Y-						
	FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
		Quasi-peak	Average	Quasi-peak	Average	Stanuaru
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
	0.50 -5.0	73.00	60.00	C 56.00	46.00	FCC
/	5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

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- (1) The tighter limit applies at the band edges.
 - (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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The following table is the setting of the receiver

\wedge	Receiver Parameters	Setting	
	Attenuation	10 dB	
	Start Frequency	0.15 MHz	
	Stop Frequency	30 MHz	
	IF Bandwidth	9 kHz	
	WEET' WEET'	WEET WEET	WEE

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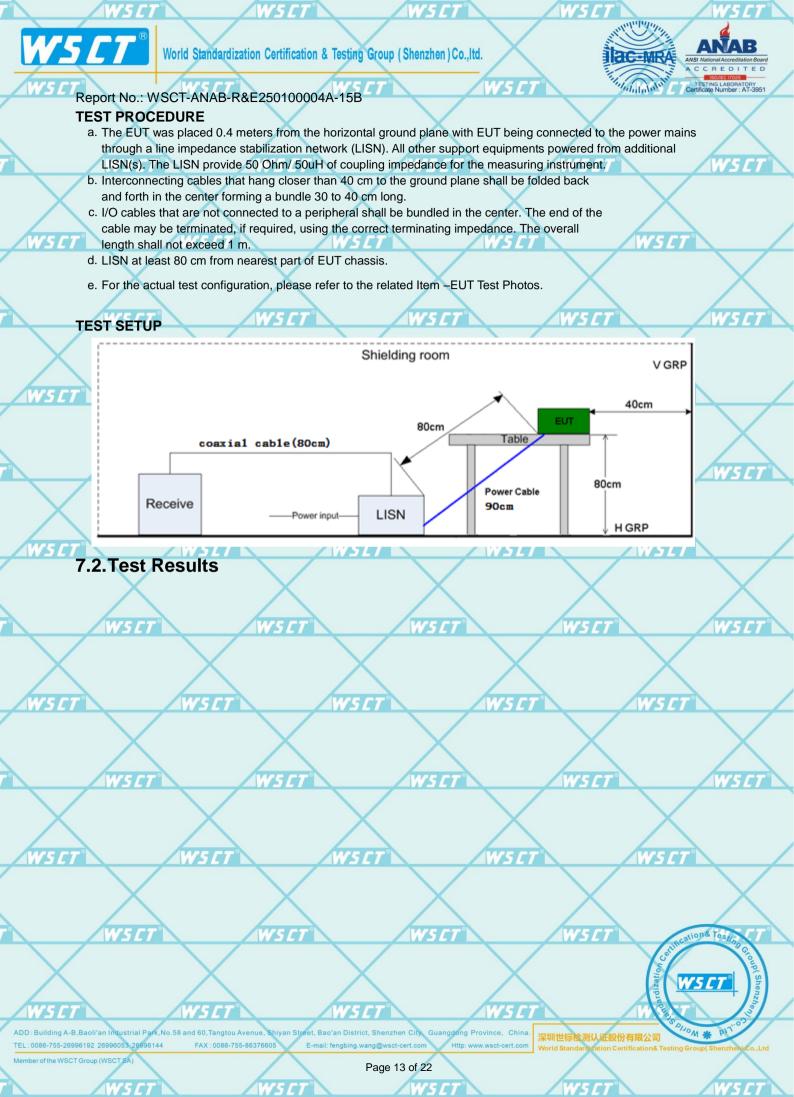
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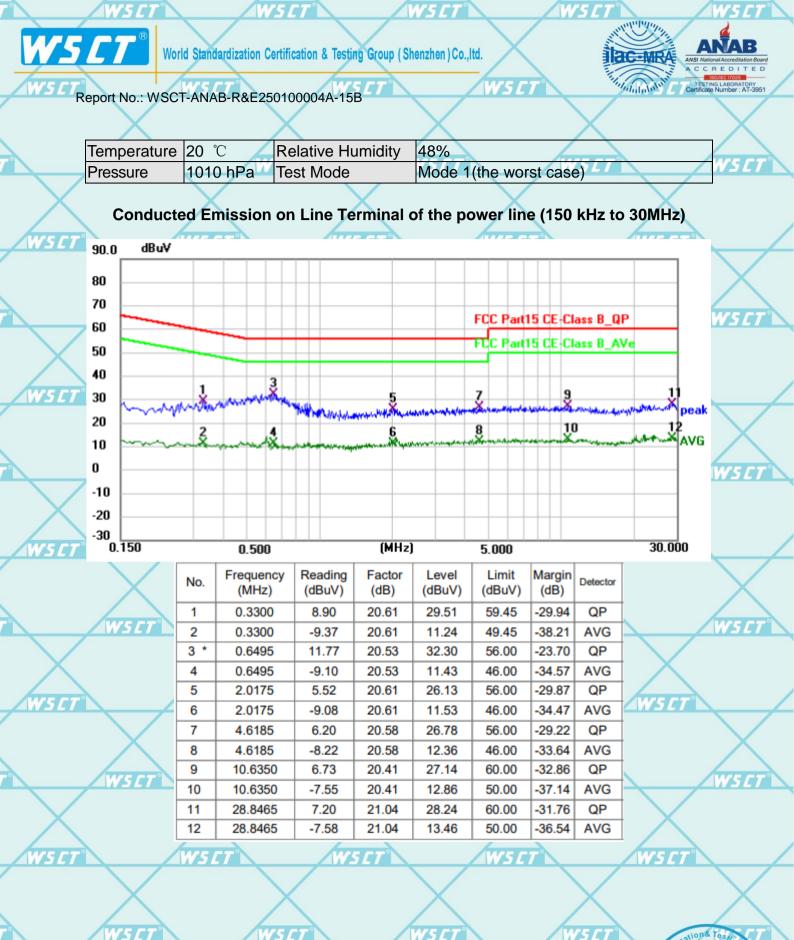
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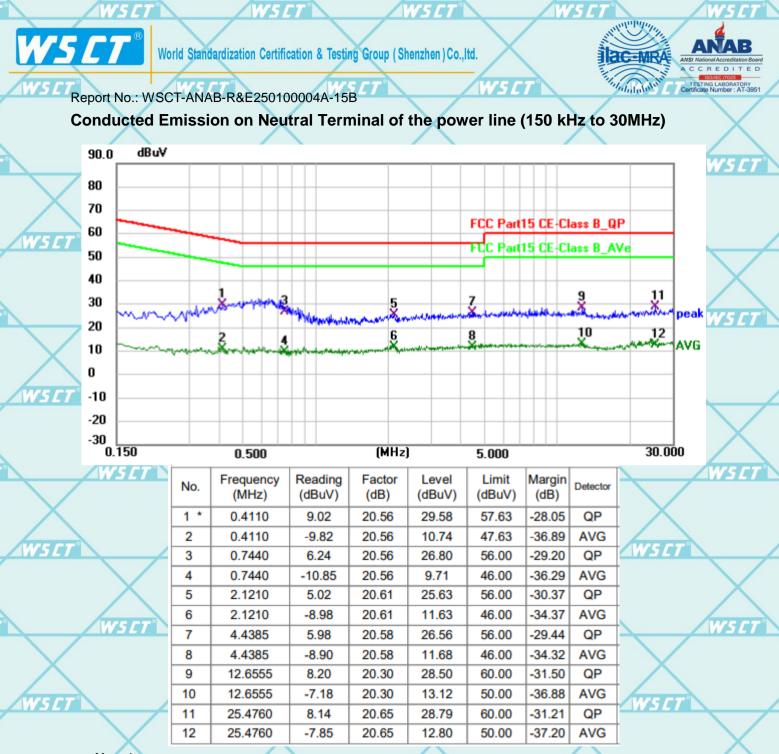




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Note1:

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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.

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7.3.RADIATED EMISSION MEASUREMENT

7.3.1. Radiated Emission Limits

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

	Frequencies	Field Strength	Measurement Distance
	(MHz)	(micorvolts/meter)	(meters)
6	0.009~0.490	2400/F(KHz)	300
-	0.490~1.705	24000/F(KHz)	30
	1.705~30.0	30	30
	30~88	100	3
	88~216	150	3
~	216~960	200	<u>3</u>
	Above 960	500	3

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBu∨	′/m) (at 3M)
	PEAK	AVERAGE
Above 1000	WSET74	WSET 54 WSL
lotoc		

Notes:

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(1) The limit for radiated test was performed according to FCC PART 15B.

(2) The tighter limit applies at the band edges.

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W5 (3) Emission level (dBuV/m)=20log Emission level (uV/m). W5 CT

\langle / \rangle		
X	Spectrum Parameter	Setting
/	Attenuation	Auto
VS CT	Start Frequency	5 CT W51000 MHz W5 CT
	Stop Frequency	10th carrier harmonic
	RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average
	band)	

	Receiver Parameter	Setting	
\bigvee	Attenuation	Auto	
X	Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP	
$\langle \rangle$	Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP	
<u>'S CT</u> °	Start ~ Stop Frequency	5.57 30MHz~1000MHz / RB 120kHz for QP5.57	

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TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

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- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

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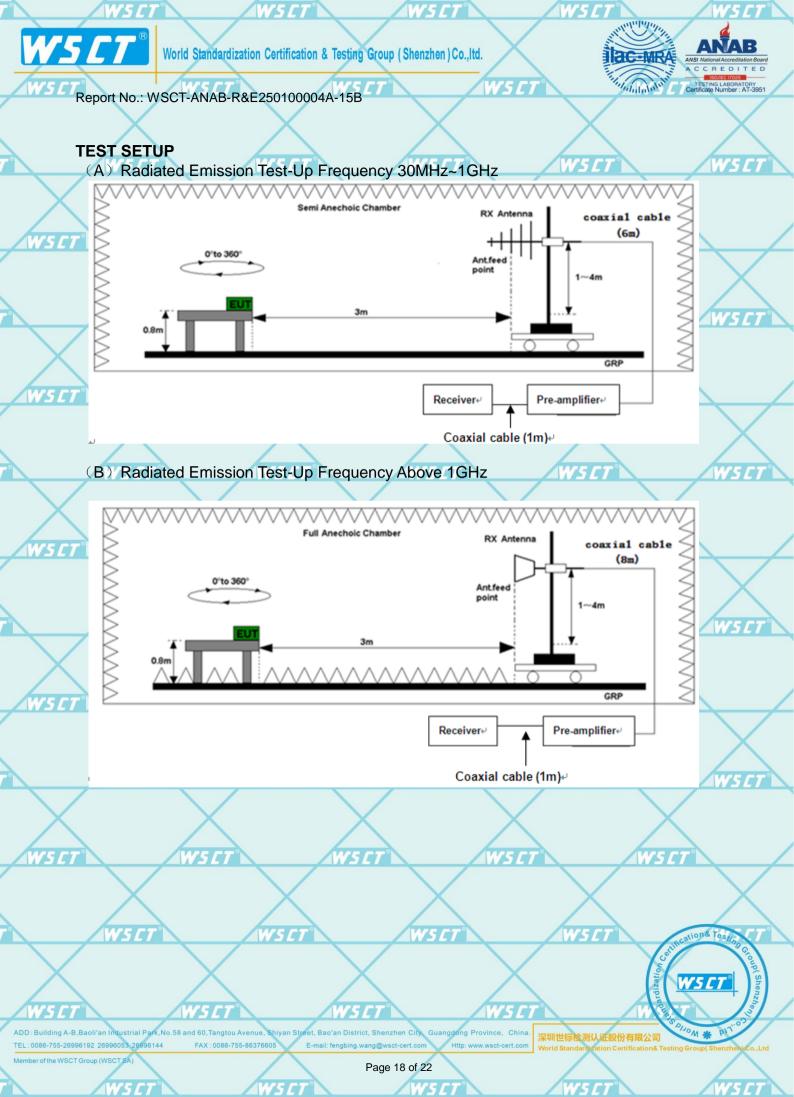
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f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

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	WSET	WSET	WSET	WSET	WSLT	
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	WSET	WSET	WSET	WSET	dardization Cas	SCT (oup) (Shenz/hag
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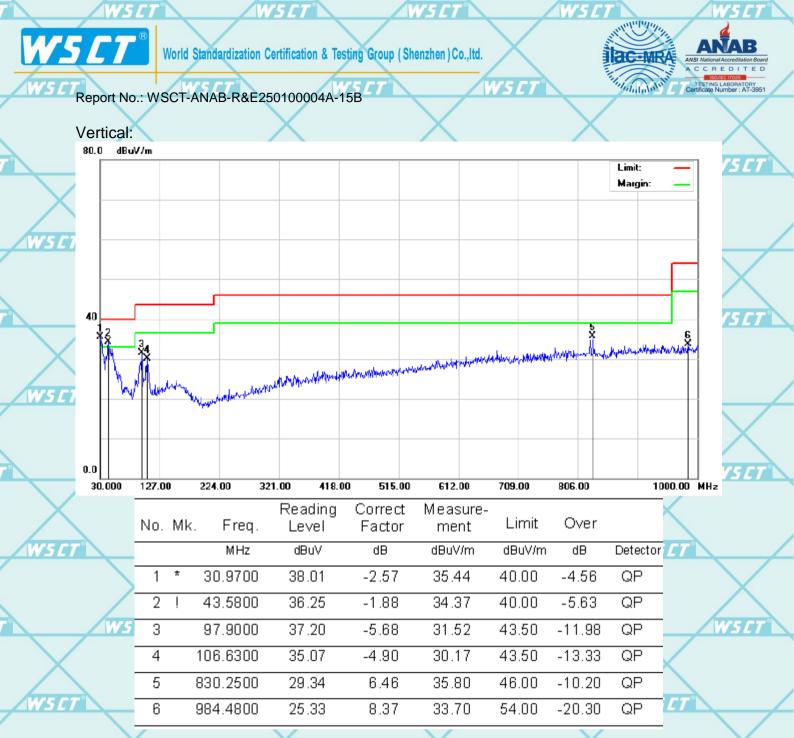
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Note1:

Freq. = Emission frequency in MHz

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

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

Measurement (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB)

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

Margin (dB) = Measurement (dBµV) - Limits (dBµV)

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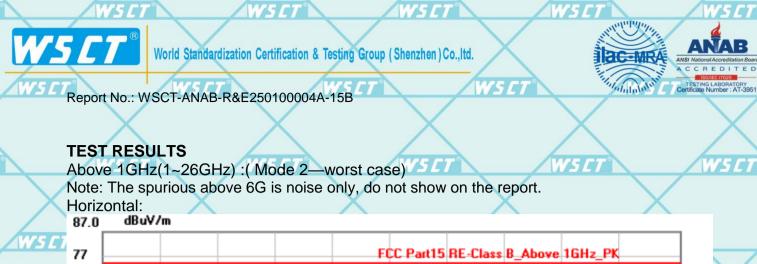
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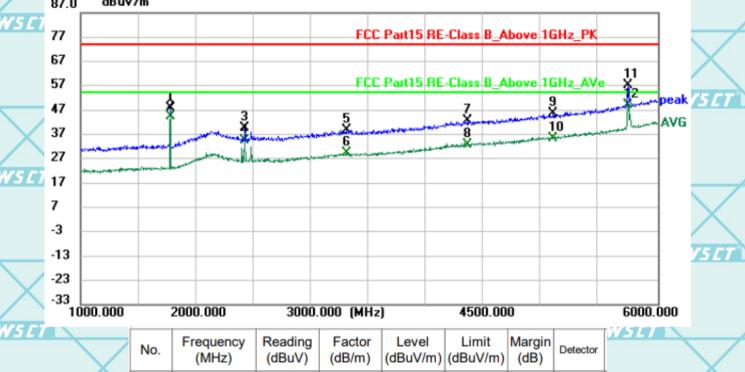
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		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
	1	1782.500	54.84	-7.12	47.72	74.00	-26.28	peak	Ĩ
WSET	2	1782.500	51.36	-7.12	44.24	54.00	-9.76	AVG	[
	3	2426.250	43.58	-3.96	39.62	74.00	-34.38	peak	$\overline{}$
X	4	2426.250	38.64	-3.96	34.68	54.00	-19.32	AVG	
	5	3309.375	40.45	-1.57	38.88	74.00	-35.12	peak	$\langle \rangle$
WSCT°	6	3309.375	30.73	-1.57	29.16	54.00	-24.84	AVG	W5CT °
	7	4356.250	40.28	2.41	42.69	74.00	-31.31	peak	
X	8	4356.250	30.41	2.41	32.82	54.00	-21.18	AVG	[
	9	5100.000	39.94	5.57	45.51	74.00	-28.49	peak	[
WSET	10	5100.000	29.63	5.57	35.20	54.00	-18.80	AVG	
$\mathbf{\nabla}$	11	5747.500	49.24	8.11	57.35	74.00	-16.65	peak	
\land	12 *	5747.500	41.09	8.11	49.20	54.00	-4.80	AVG	
	1		100			free and a	0		

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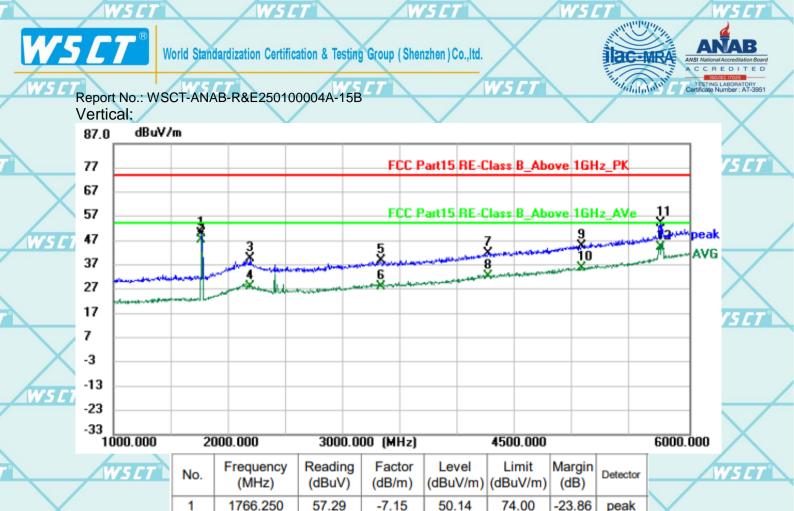
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-35.41

-25.81

-32.02

-21.73

-29.17

-18.41

-19.76

-9.58

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Remark:	
Nemark.	

WSC1

WSC1

5 C

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Freq. = Emission frequency in MHz

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

V5 /

1766.250

2191.875

2191.875

3321.250

3321.250

4257.500

4257.500

5068.125

5068.125

5753.750

5753.750

54.61

41.27

29.84

40.14

29.74

39.98

30.27

39.37

30.13

46.08

36.26

Over= Emission Level - Limit.

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All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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

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