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TEST REPORT

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FCC ID: 2ADYY-BD04AIR Product: TWS Earphone W5C7 Model No.: BD04 Air Trade Mark: TECNO Report No.: WSCT-ANAB-R&E240800038A-15B Issued Date: 28 August 20245C7

Issued for: [7]

TECNO MOBILE LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 W5 C 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 (TEL: +86-755-26996192

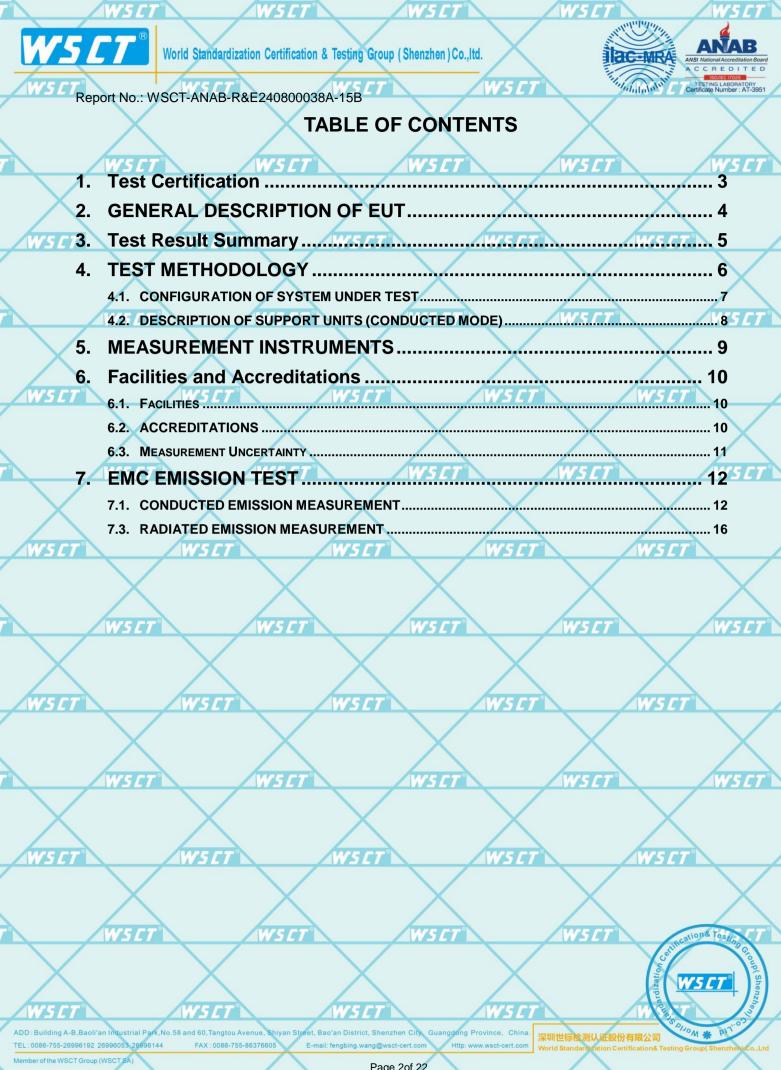
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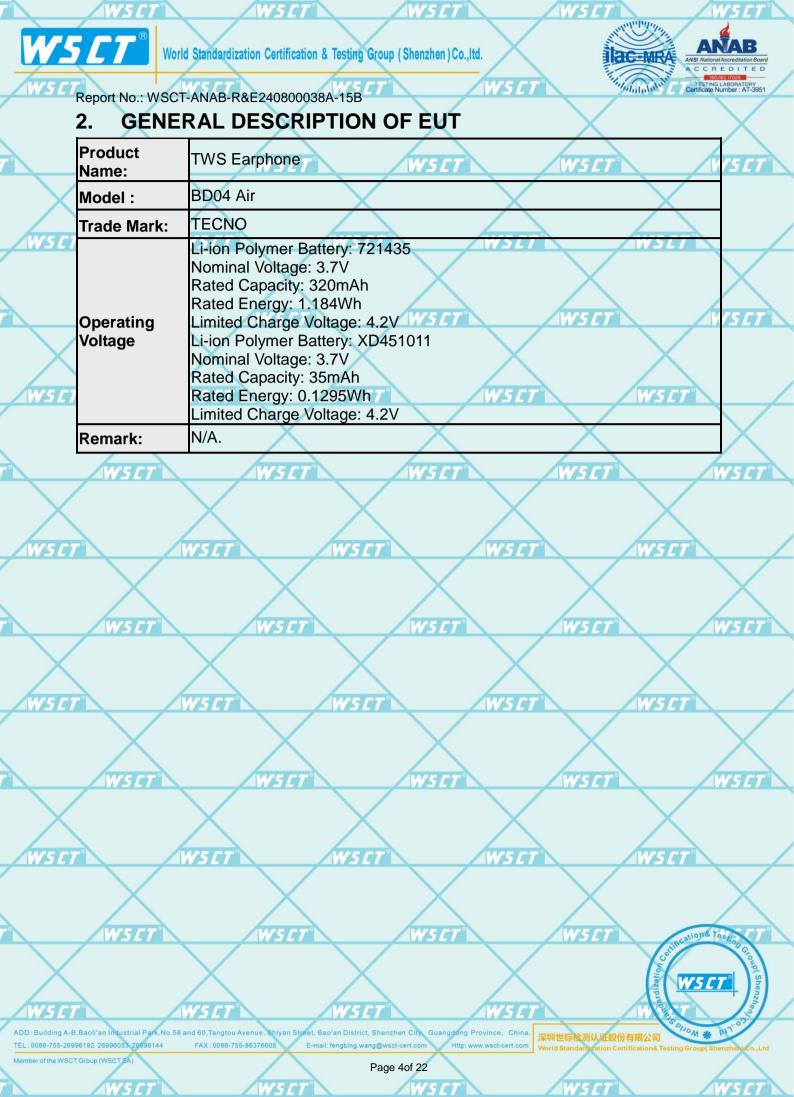
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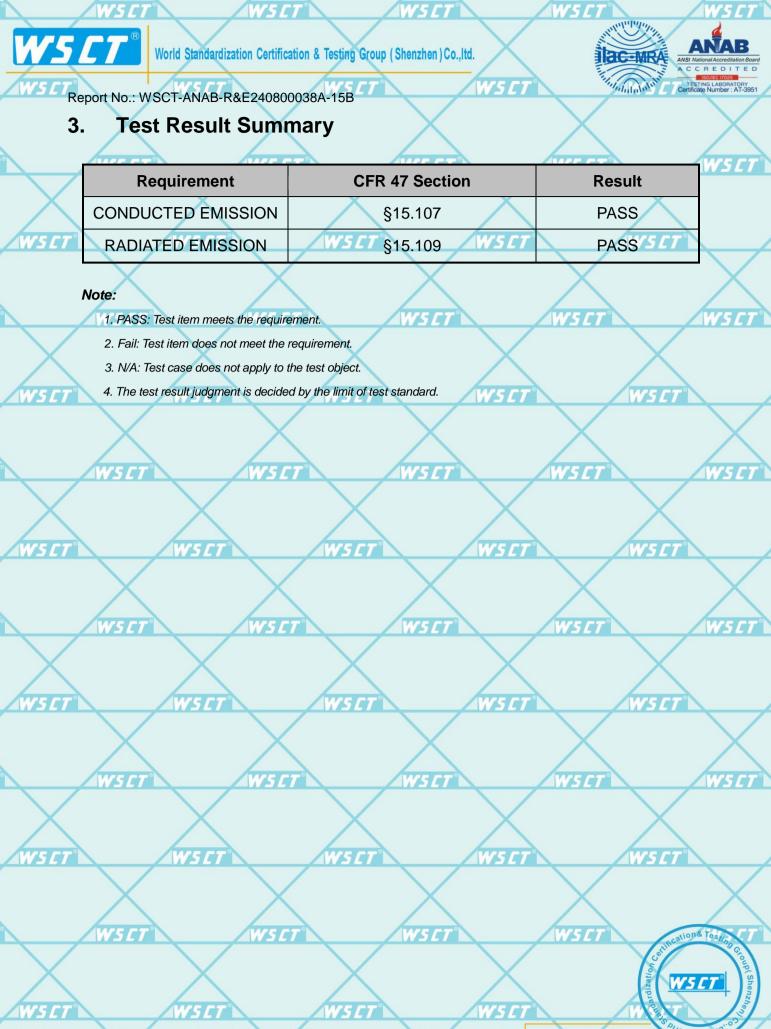
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WS CT _F	Report No.: WSCT-/ 1. Test Cei	ANAB-R&E240800038A-15B W5CT Certificate Number: AT-3951
	Product:	TWS Earphone WSCT WSCT WSCT
	Model No.:	BD04 Air
	Additional Model:	TECNO WSET WSET WSET
WSET	Applicant:	TECNO MOBILE LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
\searrow	Manufacturer:	TECNO MOBILE LIMITED WSCTWSCTFLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
WSET	Date of Test:	15 August 2024 to 28 August 2024
CHEISI	Applicable Standards:	FCC CFR Title 47 Part 15 Subpart B
	The above equi	ipment has been tested by World Standardization Certification & Testing

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	(Jiang Guanliang)	Checked By:	Chen Xu)	WSET"
Approved By: W5 [7]	USET WSET	\sim	August 2010	WSET ST
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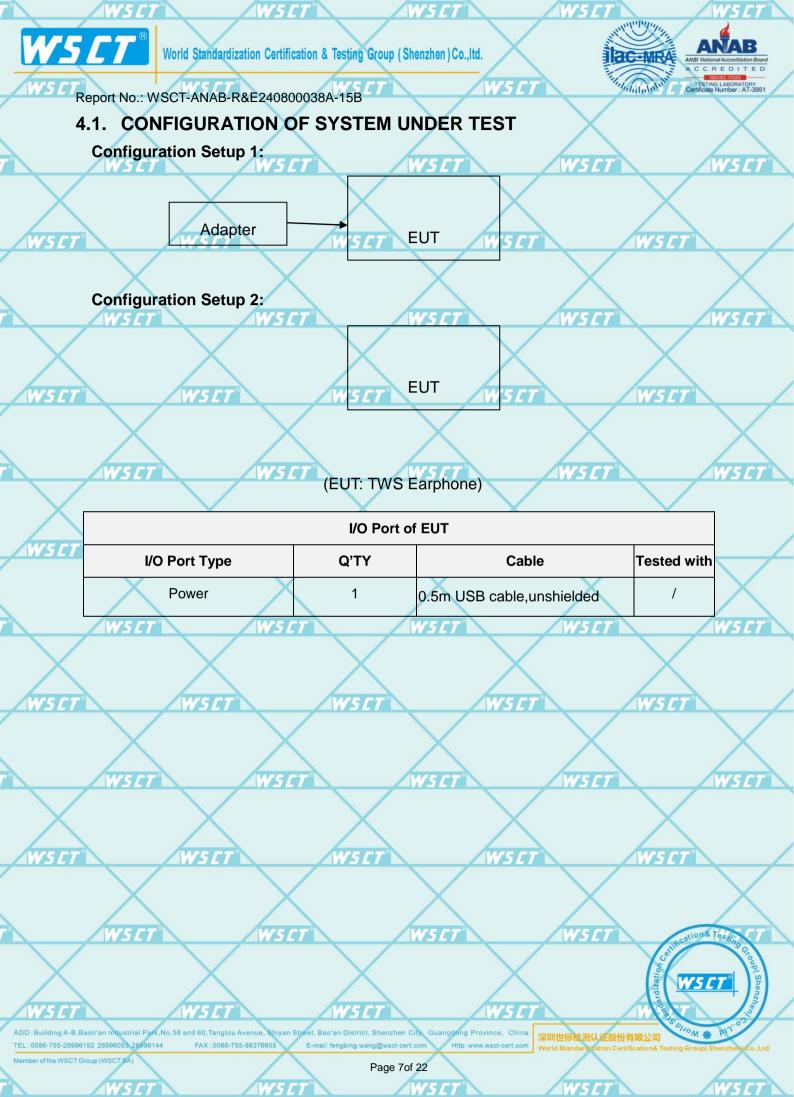
Report No.: WSCT-ANAB-R&E240800038A-15B

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	D	escription		
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	Mode 2	E	Bluetooth		
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	X	\land \land			
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TEL: 0086-755-26996192 26996053 Member of the WSCT Group (WSCT SA	X	5 E-mail: fengbing.wang@wsct-cert.com Page 6of 22	Http://www.wsct-cert.com	Standardization Certification& Tes	ting Group(Shenzhen) Co.,Ltd
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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 WSLI 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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W5C	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	SET
	Test software		EZ-EMC	CON-03A		V	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
W5	T LISN W50	7 AFJ W	5 <i>CT</i> LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
	System Controller	WCT7	SC1005 [7	<u> </u>	11/05/2023	11/04/2024	ET
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
ws	Horn Antenna W50	SCHWARZBECK	5 <i>LT</i> 9120D	w1141 7	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	
	9*6*6 Anechoic	WSET	WSET	<u> </u>	11/05/2023	11/04/2024	5 <i>CT</i> °

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Facilities and Accreditations

6.1.Facilities

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All measurement facilities used to collect the measurement data are located at World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China

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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

W5 C7The 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 15C1 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	
$\overline{}$	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%	WSET



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EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

	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
W 5 0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC
	WS 0.50 -5.0	FREQUENCY (MHz) Class A 0.15 -0.5 Quasi-peak 0.50 -5.0 73.00	Class A (dBuV) Quasi-peak Average 0.15 -0.5 79.00 66.00 0.50 -5.0 73.00 60.00	Class A (dBuV) Class B Quasi-peak Average Quasi-peak 0.15 -0.5 79.00 66.00 66 - 56 * 0.50 -5.0 73.00 60.00 56.00	Class A (dBuV) Class B (dBuV) Class A (dBuV) Class B (dBuV) Quasi-peak Average Quasi-peak Average 0.15 -0.5 79.00 66.00 66 - 56 * 56 - 46 * 0.50 -5.0 73.00 60.00 56.00 46.00

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

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\wedge	Receiver Parameters	Setting	
	Attenuation	10 dB	
VSLI	Start Frequency	0.15 MHz	
	Stop Frequency	30 MHz	
	IF Bandwidth	9 kHz	
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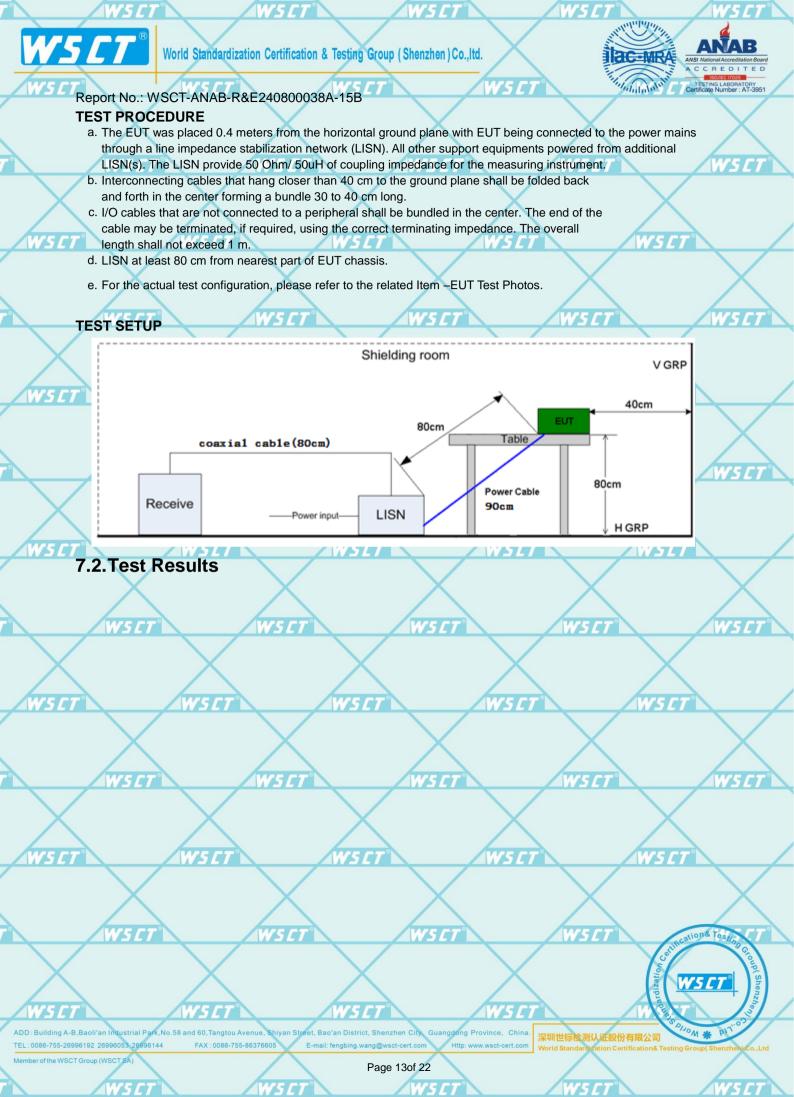
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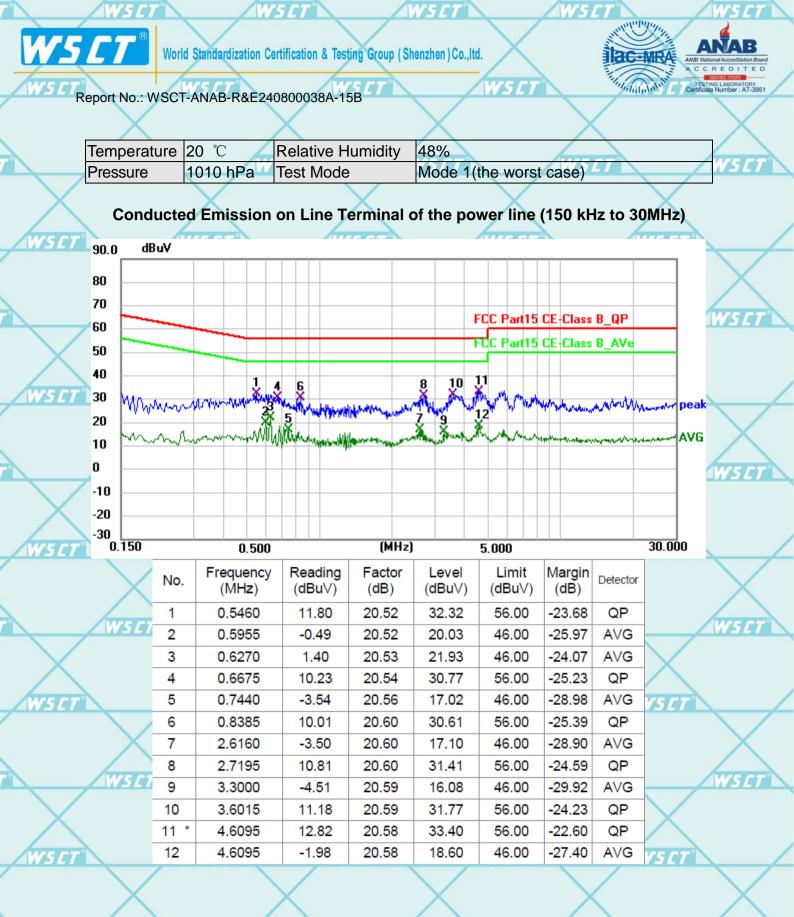
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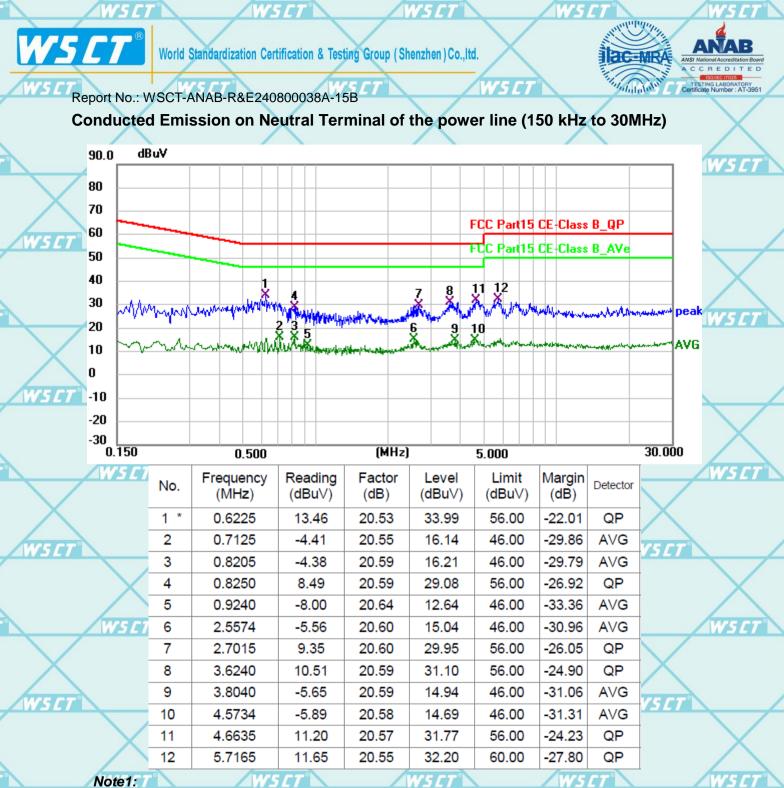
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voter:

Freq. = Emission frequency in MHz

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

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

- Measurement (dB μ V) = Reading level (dB μ 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)
ł	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
X	216~960	200	3 W5L
	Above 960	500	3

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBu∨	//m) (at 3M)
FREQUENCT (MINZ)	PEAK	AVERAGE
Above 1000	WSET74	WSET 54 WSE
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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

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X	Spectrum Parameter	Setting
/	Attenuation	Auto
VS CT	Start Frequency	'S C7 WS1000 MHz WSC7
	Stop Frequency	10th carrier harmonic
	RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average
	band)	

\triangleleft	Receiver Parameter	Setting			
	Attenuation	Auto			
	Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP			
	Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP			
<u>'S CT</u> °	Start ~ Stop Frequency	75_7 30MHz~1000MHz / RB 120kHz for QP5_7			

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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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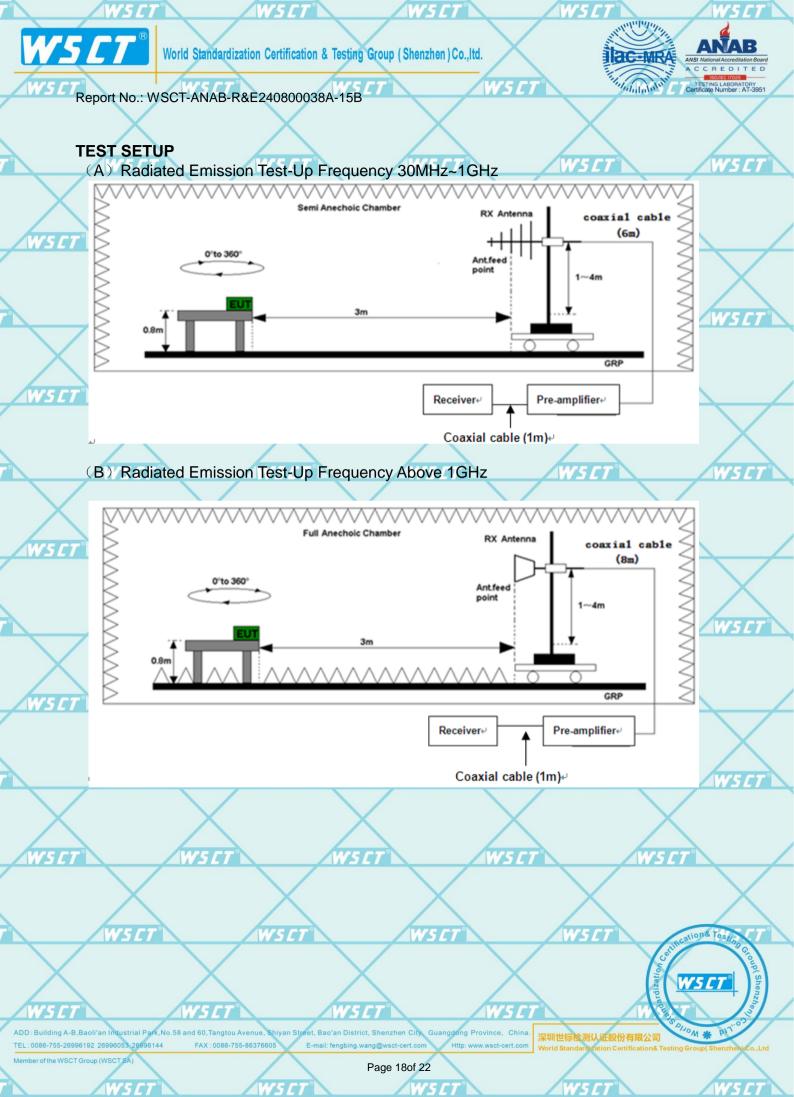
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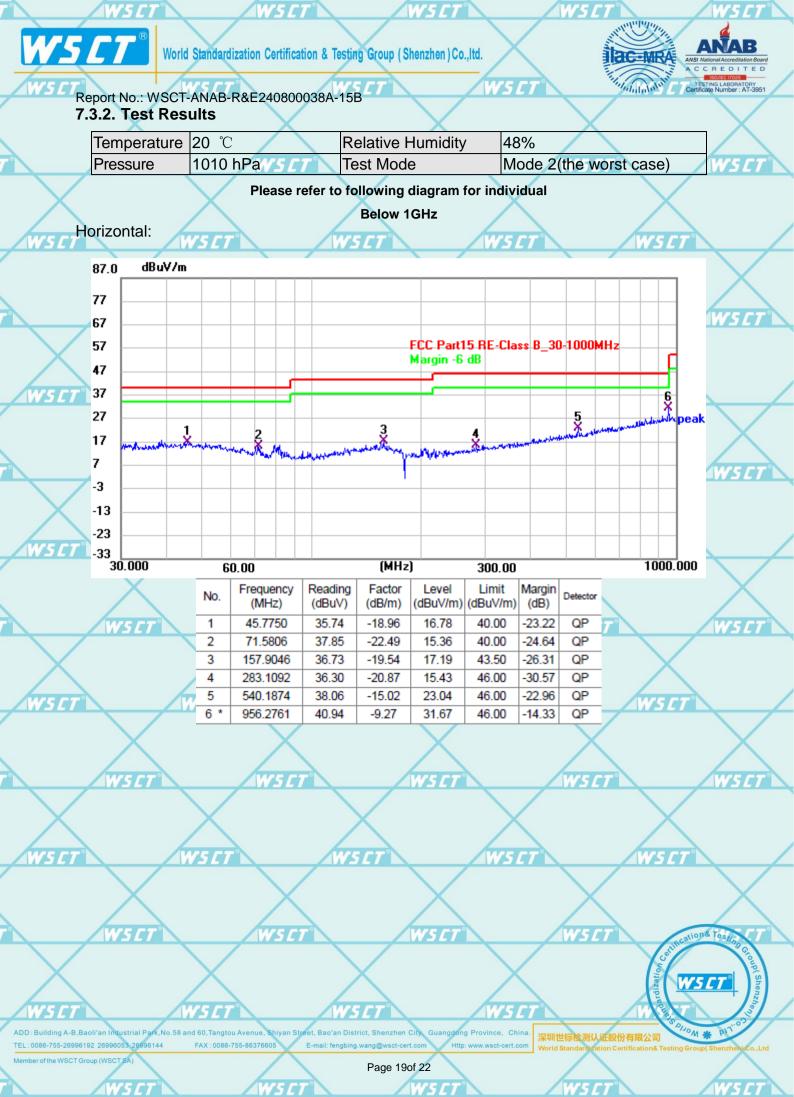
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

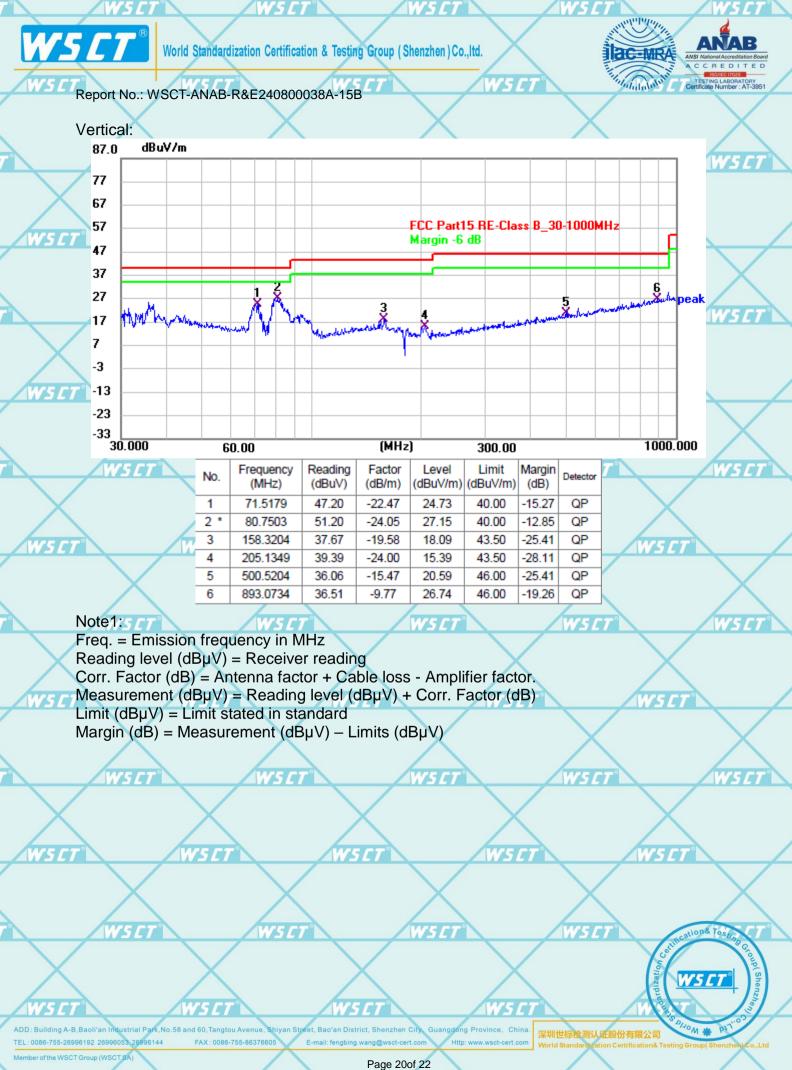
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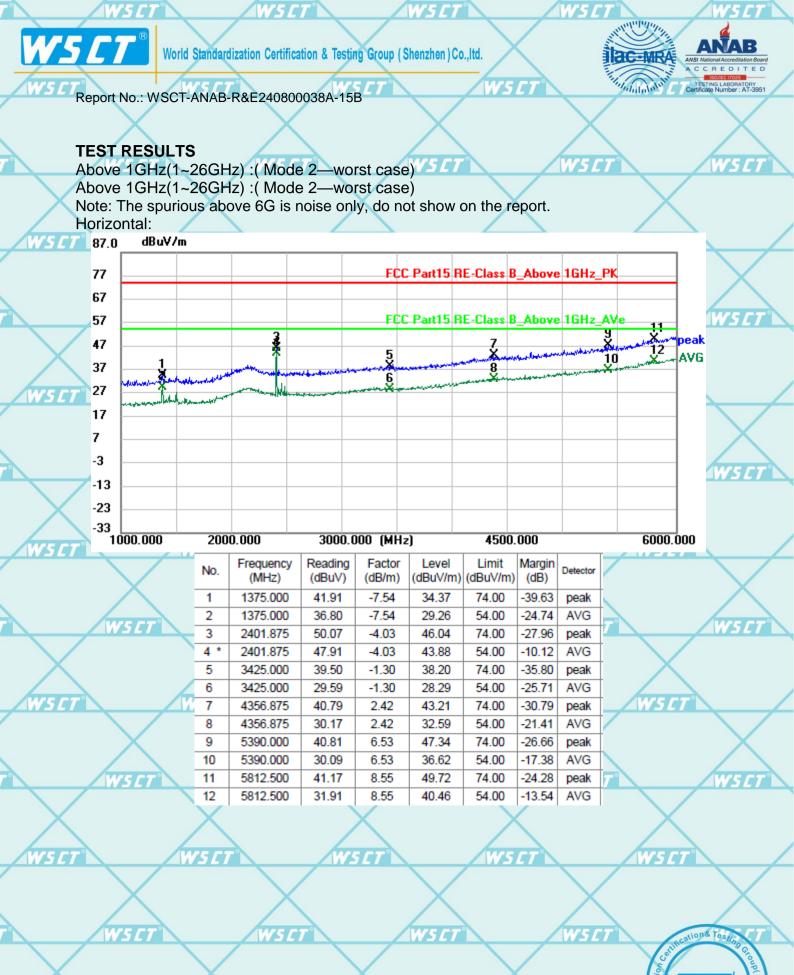
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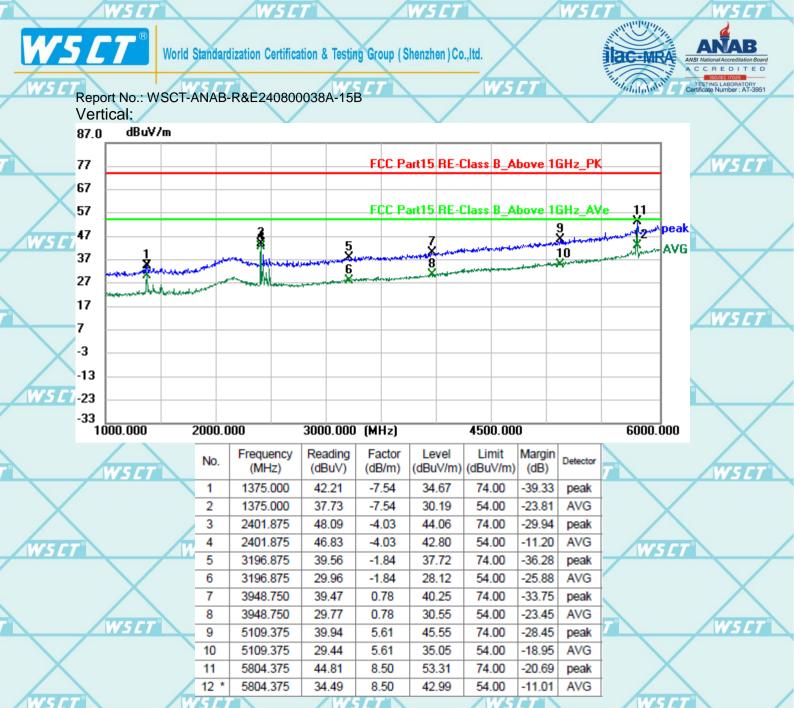
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Remark:

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.

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Over= Emission Level - Limit // 5 []

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

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