



TEST REPORT

FCC ID: 2ADYY-CM5

Product: Mobile Phone

WSET"

Model No.: CM5

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E241100063A-15B

Issued Date: 05 December 2024

WSET"

Issued for:

WSE

TECNO MOBILE 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, Shivan Street, Bao'an District, Shenzhen City, Guangdong Province, China

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WSCT

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Report No.: WSCT-ANAB-R&E241100063A-15B

Test Certification

Product:

Mobile Phone

Model No.:

CM₅

Additional

Applicant:

TECNO

Model:

TECNO MOBILE LIMITED

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

WSCT

MEI STREET FOTAN NT HONGKONG

Manufacturer:

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

W5ET

MEI STREET FOTAN NT HONGKONG

Date of receipt:

29 September 2024

Date of Test:

29 September 2024 to 04 December 2024

Applicable Standards: FCC CFR Title 47 Part 15 Subpart B

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.

WSCT

WSET"

W5 CT°

WSET

Tested By:

liang Guarliang (Jiang Guanliang)

Checked By:

(Qin Shuiquan)

Date: 01- V

Approved By:

(Li Huaibi)

WSET

WSET

WSET

WS CT

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W5 CT

GENERAL DESCRIPTION OF EUT

	Product Name:	Mobile Phone
_	Model:	CM5
	Trade Mark:	TECNO
51	Software version:	CM5-H8918 W5 CT W5 CT
	Hardware version:	V1.2
<u></u>	Operating Voltage:	Adapter: U450TSB Input: 100-240V~50/60Hz 1.8A Output: 5.0V3.0A 15.0W or 5.0V-10.0V4.5A
	Remark:	N/A.
	Note: 1 N/A stands for	no applicable

Moto	1. N/A stands for no appli	achla			15 CT
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Test Result Summary 3.

1	Requirement	CFR 47 Section	Result
	CONDUCTED EMISSION	§15.107	PASS
0	RADIATED EMISSION	WSET §15.109 WSET	PASS/5 [T

- 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.

V5 CT	WS CT	W5 CT	W5 CT	W5CT°

W5CT°	WSCT	W5 CT	W5 CT°	W5CT°

W5 CT°	WSET	W5 ET	W5 CT	WSET [®]	١

- /						-36-
	W5 CT°	WSET	WSET	W5CT	WSCT	0
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TEST METHODOLOGY 4.

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

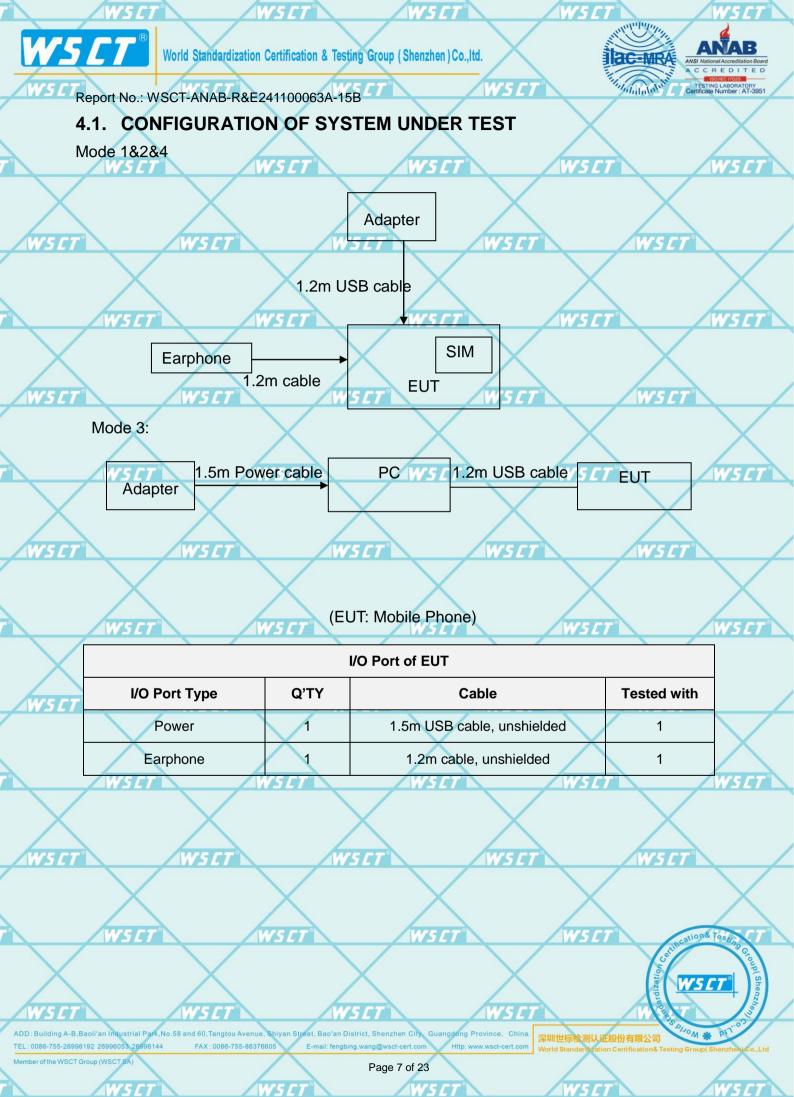
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,	Pretest Mode	De	escription		
W	Mode 1	Video	Recording	ACT.	WSET
	Model 2		eo Playing		
X	Mode 3	Exchange d	lata with computer	\times	
WSET	Mode 4	77/57	FM	WSG	
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DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary W51 accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

<u> </u>	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	//	U450TSB	V	/
	2	PC	Lenovo	TP00067A	PF-OGT3MS	/

1	Adapter	X/	U450TSB	X /	/	
2	PC	Lenovo	TP00067A	PF-OGT3MS	/	
	NS FT	WSCT	WSCT	WSIT		WE

Note:

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- 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 FLength column.

WSET	W5 ET	W5 ET	WSET	W5 ET	_/
WSI	WS	ET W	SET W	SCT WSC	7
WSET	WSET	WSET	WSET	WSET	
WSI	$\langle \hspace{0.1cm} \rangle$		\times	SET WSE	7
WSET	WSLT	WSCT	WSCT	WSET	
WSI	$\langle \hspace{0.1cm} \rangle$		\times	SET WSE	
WSET	WSET	WSET	WSCT	WSET	
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				(Sp) 1.00	

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W5 CT



MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
	Test software		EZ-EMC	CON-03A		\ <u>-</u>	
	ESCI Test Receiver	R&S	ESCI	100005	11/04/2024	11/03/2025	
75 L	LISN W51	7° AFJ W	5 [T LS16	16010222119	11/04/2024	11/03/2025	
	LISN(EUT)	Mestec	AN3016	04/10040	11/04/2024	11/03/2025	
	pre-amplifier	CDSI	PAP-1G18-38		11/04/2024	11/03/2025	
	System Controller	WCT7°	SC100 57	- /	11/04/2024	11/03/2025	ET
	Bi-log Antenna	Chase	CBL6111C	2576	11/04/2024	11/03/2025	
\nearrow	Spectrum analyzer	R&S	FSU26	200409	11/04/2024	11/03/2025	
75 L	Horn Antenna	SCHWARZBECK	5 _ 79120D	1141	11/04/2024	11/03/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
	Pre Amplifier	Н.Р.	HP8447E	2945A02715	11/04/2024	11/03/2025	
	9*6*6 Anechoic	WSCT	WSCI	- /	11/04/2024	11/03/2025	5 CT

WSCT	WSET	WSET	WSCT	WSET	
		\times	X	W5 ET	WSET
WSCT	WSET	WSET	WSET	WSET	
		\times	X	WSET	WSET
X	X	X	X	X	
W5LT"	WSET	WSET	WSET	W5ET	\ /

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6. Facilities and Accreditations

6.1. Facilities

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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."

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

Accre	ditation (ANAB).Certific	ation Number: AT-3951	X	$\langle \hspace{0.1cm} \rangle$	
W	SET W.	SET WS	ET W5	W5	CT°
WSET	WSET	WSET	WSET	WSET	
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	\times	WS WS		$\langle \hspace{0.1cm} \rangle$	(T)
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6.3. Measurement Uncertainty

	/			
	No.	Item	MU	W5C7 °N
X	1	Conducted Emission Test	±3.2dB	
W5CT°	2	RF power, conducted W5 [7] W5 [7]	±0.16dB5	
	3	Spurious emissions, conducted	±0.21dB	\times
	4	All emissions, radiated(<1GHz)	±4.7dB	WSET
	5	All emissions, radiated(>1GHz)	±4.7dB	
X	6	Temperature	±0.5°C	
W5 CT	7	Humidity CT W5 CT W5 CT	±2.0%/5 <i>[T</i>]	

Note:

- 1. The reported uncertainty of measurement y ± 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 %.
- The Ulab is less than Ucispr, compliance is deemed to occur if no measured disturbance level exceeds the
 disturbance limit;non-compliance is deemed to occur if any measured disturbance level exceeds the
 disturbance limit.
- 3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an adjustment is made follows: any additionan uncertainty in the test system over and above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

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EMC EMISSION TEST 7.

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

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4		J 1007	

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7	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard	
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru	
	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	1
	5.0 -30.0	73.00	60.00	60.00	50.00	FCC	

Note:

(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.

WSEI

The following table is the setting of the receiver

	Receiver Parameters	Setting
	Attenuation	10 dB
L	Start Frequency	0.15 MHz
	Stop Frequency	30 MHz
	IF Bandwidth	9 kHz

WSC WS ET W5 E1

W5CI





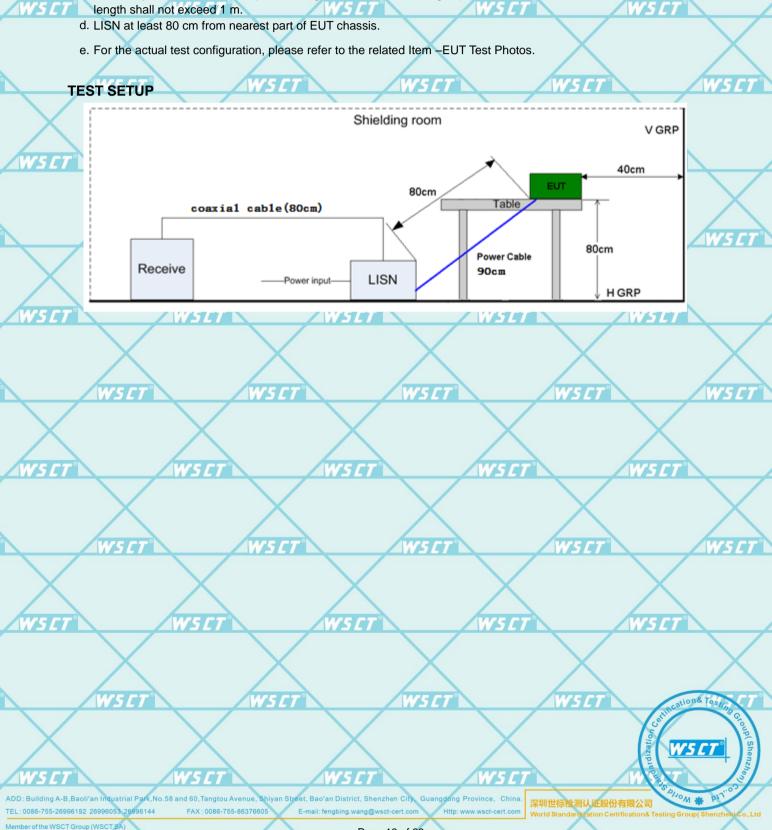
Report No.: WSCT-ANAB-R&E241100063A-15B

TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

WSCI

- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.



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W5 C7



W5 CT

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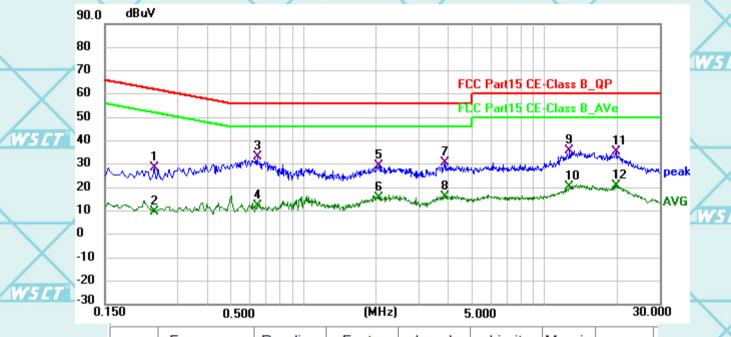


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7.2. Test Results

,	Temperature	20 ℃	Relative Humidity	48%	WSLI
	Pressure	1010 hPa	Test Mode	Mode 3(the worst case)	

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



V	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
	1	0.2400	8.02	20.67	28.69	62.10	-33.41	QP	
	2	0.2400	-10.95	20.67	9.72	52.10	-42.38	AVG	
	3 *	0.6450	12.60	20.53	33.13	56.00	-22.87	QP	-
	4	0.6450	-8.38	20.53	12.15	46.00	-33.85	AVG	
	5	2.0535	8.73	20.61	29.34	56.00	-26.66	QP	
_	6	2.0535	-5.05	20.61	15.56	46.00	-30.44	AVG	
4	7	3.8670	10.09	20.59	30.68	56.00	-25.32	QP	
	8	3.8670	-4.54	20.59	16.05	46.00	-29.95	AVG	
	9	12.6825	15.46	20.30	35.76	60.00	-24.24	QP	
	10	12.6825	0.13	20.30	20.43	50.00	-29.57	AVG	7°
1	11	19.7744	15.26	20.26	35.52	60.00	-24.48	QP	
/	12	19.7744	0.54	20.26	20.80	50.00	-29.20	AVG	

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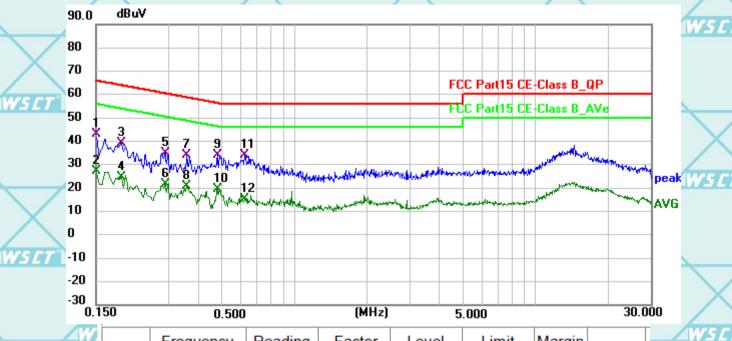




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W5CT°

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



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	7
	1	0.1500	22.26	20.73	42.99	66.00	-23.01	QP	
	2	0.1500	6.68	20.73	27.41	56.00	-28.59	AVG	7
	3	0.1905	18.42	20.70	39.12	64.01	-24.89	QP	
	4	0.1905	3.88	20.70	24.58	54.01	-29.43	AVG	Ī
	5	0.2895	14.40	20.64	35.04	60.54	-25.50	QP	
	6	0.2895	1.12	20.64	21.76	50.54	-28.78	AVG	7
	7	0.3570	13.68	20.60	34.28	58.80	-24.52	QP	
	8	0.3570	0.24	20.60	20.84	48.80	-27.96	AVG	
	9	0.4785	13.46	20.52	33.98	56.37	-22.39	QP	
	10	0.4785	-1.21	20.52	19.31	46.37	-27.06	AVG	Ī
	11 *	0.6225	13.40	20.53	33.93	56.00	-22.07	QP	
4	12	0.6225	-5.42	20.53	15.11	46.00	-30.89	AVG	7

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading / 5

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

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)

Q.P. =Quasi-Peak AVG =average

WSET

W5 C1

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^{*} 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

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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:

ĺ	Frequencies	Field Strength	Measurement Distance			
	(MHz)	(micorvolts/meter)	(meters)			
4	0.009~0.490	2400/F(KHz)	300			
4	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	W5L 3 W5 L			
	Above 960	500	3			

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)				
FREQUENCT (MINZ)	PEAK	AVERAGE			
Above 1000	W57-74	WS CT 54 WS C			

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	5 7 W 5 1000 MHz W 5 7 7
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

1	Receiver Parameter	Setting
	Attenuation	Auto
	Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
	Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
	Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP







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W5CT°

TEST PROCEDURE

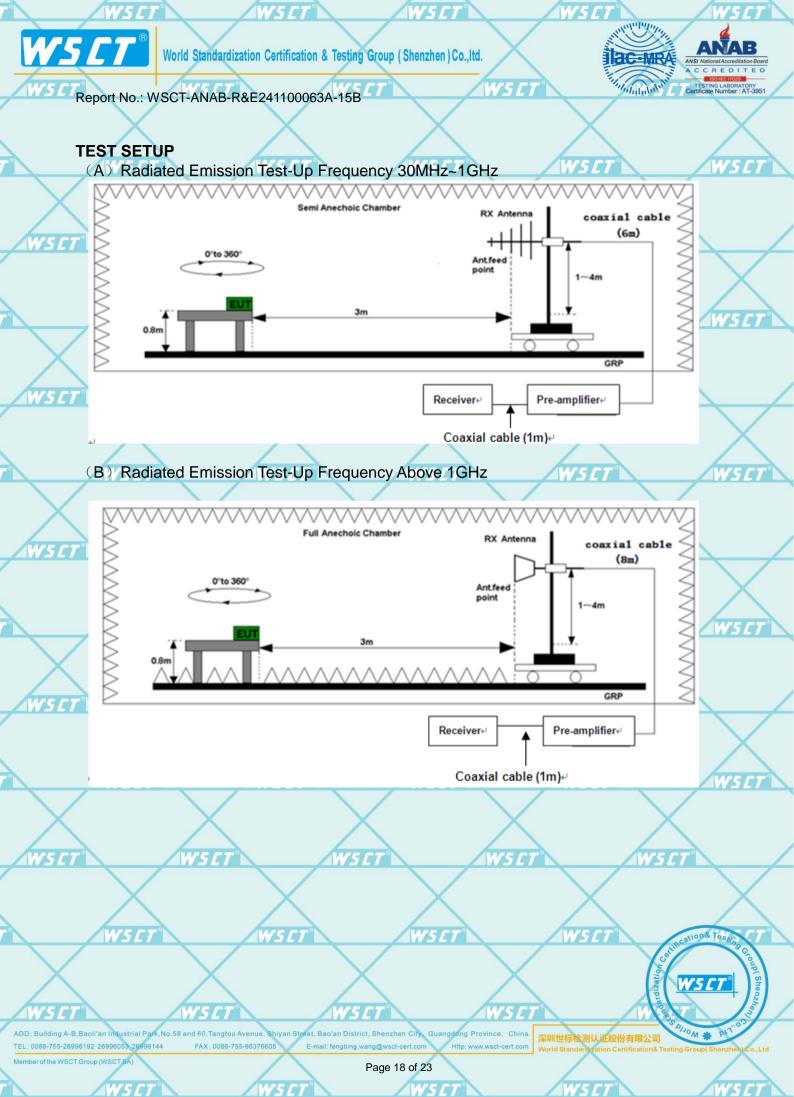
a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

WSLI

- 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.

WSET	W5 ET	WSET	W5ET*	WSET	
W5 L	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$			VS CT
WSET	WSCT	WSCT	WSLT	WSET	/
7 W5 I	T WS	WS WS		ET V	VS CT
WSET	WSET	WSET	WSET	WSCT	
WSI	WS I	T WS	LT WS	ET M	VS CT
WSET	WSET	WSCT	WSET	WSCT	
7 W5 L		WS		777 cation to	
WSET	WSCT	WSCT	WSCT	Continuation & Total	Group (Shenzhen)
	I Park,No.58 and 60,Tangtou Avenue, Shiyan		angdong Province, China. 深圳世标检测	N认证股份有限公司 * Parameter	nzhen) Co.,Ltd

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W5 CT

7.3.2. Test Results

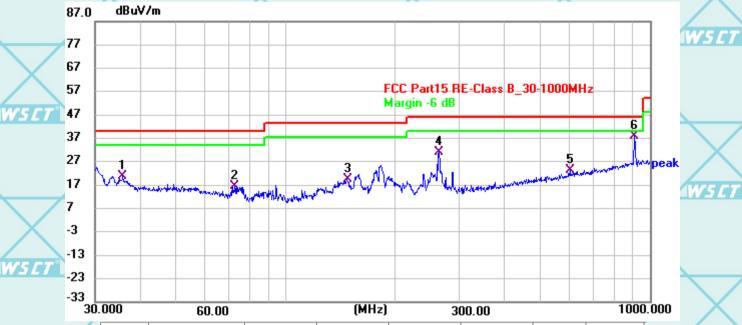
_	Temperature	20 ℃ W55	Relative Humidity	48% W517	W5C1
	Pressure	1010 hPa	Test Mode	Mode 3(the worst case)	

Please refer to following diagram for individual

Below 1GHz

W5 CT

Horizontal:



7	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	_
	1	35.8590	40.04	-19.45	20.59	40.00	-19.41	QP	
	2	72.8147	39.48	-22.83	16.65	40.00	-23.35	QP	
	3	147.5329	39.05	-19.56	19.49	43.50	-24.01	QP	-7
	4	263.9347	52.69	-21.52	31.17	46.00	-14.83	QP	
	5	604.8633	36.97	-13.56	23.41	46.00	-22.59	QP	
7	6 *	909.2680	47.69	-9.85	37.84	46.00	-8.16	QP	

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W5C

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W5C7

Vertical: 87.0



									_
7	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	7
	1 *	30.0717	54.88	-19.14	35.74	40.00	-4.26	QP	
	2	56.0252	49.29	-19.86	29.43	40.00	-10.57	QP	7
	3	86.8067	54.07	-23.84	30.23	40.00	-9.77	QP	
	4	158.8070	46.44	-19.64	26.80	43.50	-16.70	QP	
V	5	263.5878	42.37	-21.53	20.84	46.00	-25.16	QP	
	6	911.6624	47.07	-9.84	37.23	46.00	-8.77	QP	7

Note1:

Freq. = Emission frequency in MHz

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

WS CI

W5 C1

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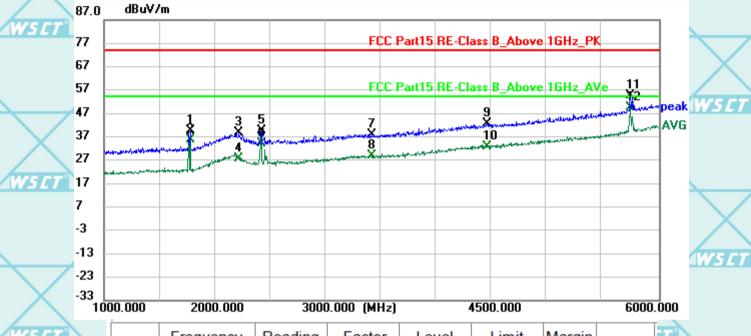
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TEST RESULTS

W5 ET

Above 1GHz(1~6GHz) :(Mode 3—worst case) W5 L1 Note: The spurious above 6G is noise only, do not show on the report. Horizontal:



1 A -W III	

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	7
	1	1783.750	46.78	-7.12	39.66	74.00	-34.34	peak	
1	2	1783.750	42.92	-7.12	35.80	54.00	-18.20	AVG	
	3	2220.000	40.58	-1.96	38.62	74.00	-35.38	peak	/
	4	2220.000	29.44	-1.96	27.48	54.00	-26.52	AVG	
	5	2423.750	43.45	-3.98	39.47	74.00	-34.53	peak	
	6	2423.750	37.95	-3.98	33.97	54.00	-20.03	AVG	
	7	3410.625	39.43	-1.33	38.10	74.00	-35.90	peak	
	8	3410.625	30.13	-1.33	28.80	54.00	-25.20	AVG	
1	9	4456.875	39.94	2.83	42.77	74.00	-31.23	peak	
	10	4456.875	30.10	2.83	32.93	54.00	-21.07	AVG	
	11	5746.875	46.46	8.10	54.56	74.00	-19.44	peak	
	12 *	5746.875	41.26	8.10	49.36	54.00	-4.64	AVG	7

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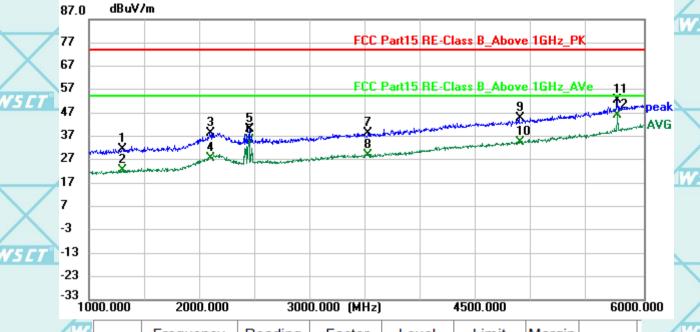




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W5CT°

Vertical:



V	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	7
	1	1302.500	39.54	-7.87	31.67	74.00	-42.33	peak	
	2	1302.500	30.25	-7.87	22.38	54.00	-31.62	AVG	7
/	3	2097.500	40.59	-2.05	38.54	74.00	-35.46	peak	
	4	2097.500	29.66	-2.05	27.61	54.00	-26.39	AVG	
W	5	2446.250	43.98	-3.87	40.11	74.00	-33.89	peak	
	6	2446.250	39.29	-3.87	35.42	54.00	-18.58	AVG	7
	7	3518.750	39.63	-1.06	38.57	74.00	-35.43	peak	
	8	3518.750	30.00	-1.06	28.94	54.00	-25.06	AVG	
	9	4881.250	39.91	4.70	44.61	74.00	-29.39	peak	. / _
	10	4881.250	29.72	4.70	34.42	54.00	-19.58	AVG	
/	11	5766.875	44.04	8.25	52.29	74.00	-21.71	peak	
V.	12 *	5766.875	37.86	8.25	46.11	54.00	-7.89	AVG	-

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.

Over= Emission Level - Limit.

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

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