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TEST REPORT

FCC ID: 2ADYY-AE10

Product: Mobile Phone

Model No.: AE10

Trade Mark: TECNO

Report No.: WSCT-A2LA-R&E240300009A-15B

Issued Date: 11 July 2024

Issued for:

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, Baoshi Science & Technology Park, Baoshi Road,
Bao'an District, Shenzhen, Guangdong, China

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Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.

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Certificate #5768.01

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Report No.: WSCT-A2LA-R&E240300009A-15B

1. Test Certification

Product: Mobile Phone

Model No.: AE10

Additional Model:

TECNO

Applicant: TECNO MOBILE LIMITED

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

STREET FOTAN NT HONGKONG

Manufacturer: TECNO MOBILE LIMITED

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

STREET FOTAN NT HONGKONG

Date of receipt: 14 February 2024

Date of Test: 15 February 2024 to 11 July 2024

Applicable FCC CFR Title 47 Part 15 Subpart B Standards:

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:

(Wang Xiang)

Checked By:

(Qin Shuiquan)

Approved By:

(Liu Fuxin)

Date:

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2. GENERAL DESCRIPTION OF EUT

DEGGKII TIGIT GI EGI	www.wsct-c
Mobile Phone	100
AE10	/
TECNO	
AE10-H833A-U-OP-240421V2267	144
V2.0	
Adapter: U700TSA Input: 100-240V~50/60Hz 2.0A Output: 5.0V3.0A 15.0W	
N/A.	
	Mobile Phone AE10 TECNO AE10-H833A-U-OP-240421V2267 V2.0 Adapter: U700TSA Input: 100-240V~50/60Hz 2.0A Output: 5.0V3.0A 15.0W

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



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3. Test Result Summary

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	Z11/47#@\ Z17/47#		Z LATHE X
7	Requirement	CFR 47 Section	Result
	CONDUCTED EMISSION	§15.107	PASS
	RADIATED EMISSION	§15.109	PASS

	CONDUCTED LIMISSION	313.107	FASS	
AVISTA	RADIATED EMISSION	§15.109	PASS	/
	No.	\times	X	X
	Note: 1. PASS: Test item meets the require	ement.	175797	17270
	2. Fail: Test item does not meet the			
	3. N/A: Test case does not apply to	the test object.	X	
AVISTA	4. The test result judgment is decide	d by the limit of test standard.	SUI WSUI	
	X		X	X
	AVI-TO	TITE TO THE TOTAL PARTY.	NYSTT	AWSTET
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VISTA III	WASTRE	Wiston	1100 NV5100	
×				
	AVETO	AVSTO	AVISTATA	AVETO
X	X	X	XX	
AVITA	WEIT	WHIT	274	
	X		X	X

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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.

/	Pretest Mode	Description
Ą	Mode 1	Video Recording
	Model 2	Video Playing
Mode 3		Exchange data with computer
	Mode 4	FM _

Note: The EUT has been tested in both folded and unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)

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WEIGH	N/FIET	NISIA	VIETA	V6144
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WEIGH	WSBI	NYSIGI	Waster	W/5191
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4.1. CONFIGURATION OF SYSTEM UNDER TEST

Mode 1&2&4

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Adapter

100cm USB

SIM
EuT

Mode 3:

Adapter 1.5m Power cable PC 1.2m USB cable EUT

(EUT: Mobile Phone)

/	I/O Port of EUT				
1	I/O Port Type	Q'TY	Cable	Tested with	
	Power	1	1.5m USB cable, unshielded	1	
	Earphone	1	1.2m cable, unshielded	1	

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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 accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	\/\	U700TSA	X	/
2	PC	Lenovo	TP00067A	PF-OGT3MS	/

Note:

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

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	WEIGH	N/ESTER	WEIGH	WISIN B	NE IN
N 157					74
	VISIO	Wister	WSIG	WESTER	NISTAT
NIFE OF					700
	X	7/4/4	N/5191	WEIGH	VIA 100
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MEASUREMENT INSTRUMENTS 5.

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	7
	Test software	\	EZ-EMC	CON-03A			
^	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
1	LISN AV54	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	J
	pre-amplifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	0
	System Controller	W CT 7	SC100-77	-	11/05/2023	11/04/2024	7
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
×	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
7	Horn Antenna	SCHWARZBECK	9120D	1141	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2023	7/28/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	×
	9*6*6 Anechoic	1777	17734	- /	11/05/2023	11/04/2024	7

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6. Facilities and Accreditations

6.1. Facilities

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, 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

CNAS - Registration Number: L3732

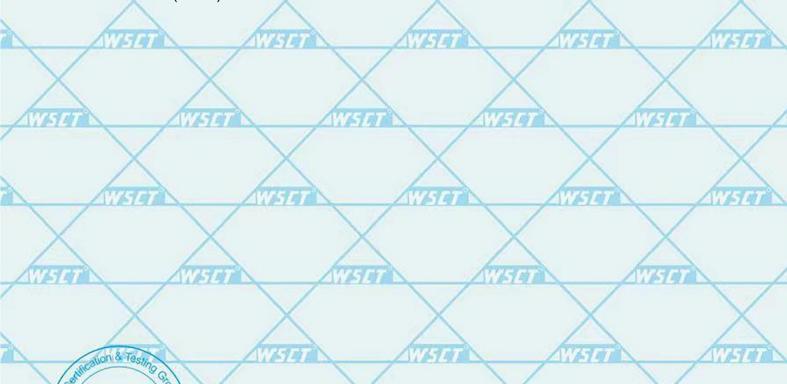
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

A2LA - Certificate Number: 5768.01

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number: 5768.01



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6.3. Measurement Uncertainty

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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
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
7	4	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature W507	±0.5°C
	7	Humidity	±2.0%

WHE	1779	1759	NV5191	WHI
	HI WH			191
WHI	NV.FI BY	WEIGH	WESTER	WASTER
	75191 NV51		W.	191
WATER	AVVSTAT	WEIGH	WETER	WESTON
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7. EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

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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	
	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	

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.

The following table is the setting of the receiver

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

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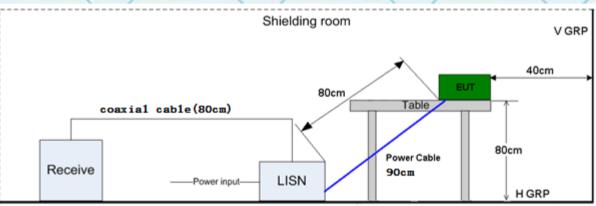
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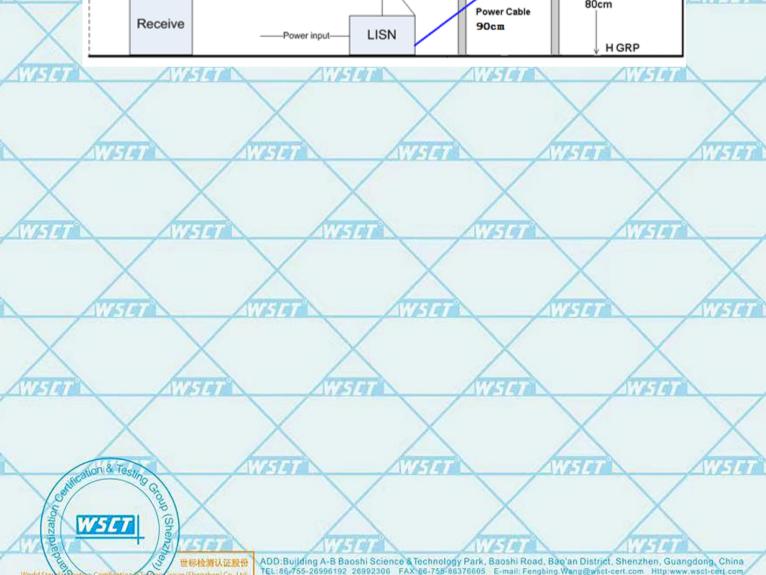
TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mainswwwsct-cert.com 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.
- 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

TEST SETUP

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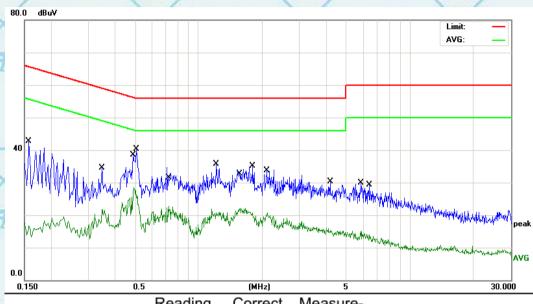
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7.2. Test Results

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

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



				Reading	Correct	Measure-	,		
	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
?			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
5	1		0.1580	32.31	10.45	42.76	65.56	-22.80	QP
	2		0.3500	11.28	10.48	21.76	48.96	-27.20	AVG
	3		0.4940	17.92	10.52	28.44	46.10	-17.66	AVG
	4	*	0.5100	29.77	10.52	40.29	56.00	-15.71	QP
	5		0.7220	12.27	10.53	22.80	46.00	-23.20	AVG
1	6		1.2140	25.03	10.58	35.61	56.00	-20.39	QP
5	7		1.5740	11.53	10.64	22.17	46.00	-23.83	AVG
	8		1.8020	24.48	10.68	35.16	56.00	-20.84	QP
	9		2.1140	9.94	10.71	20.65	46.00	-25.35	AVG
	10		4.1979	19.58	10.73	30.31	56.00	-25.69	QP
	11		5.8500	4.40	10.76	15.16	50.00	-34.84	AVG
1	12		6.4180	18.45	10.77	29.22	60.00	-30.78	QP

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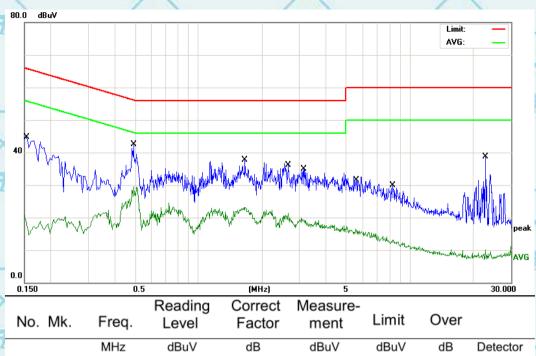






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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) Please Contact with WSCT www.wsct-cert.com



	0.150		0.5		(MHz)	5			30.000
)	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-7			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1500	10.27	10.45	20.72	55.99	-35.27	AVG
	2		0.1539	34.26	10.45	44.71	65.78	-21.07	QP
	3	*	0.4940	31.93	10.52	42.45	56.10	-13.65	QP
>	4		0.4940	19.06	10.52	29.58	46.10	-16.52	AVG
	5		1.6420	12.42	10.65	23.07	46.00	-22.93	AVG
9	6		1.6620	27.01	10.66	37.67	56.00	-18.33	QP
	7		2.6540	10.49	10.72	21.21	46.00	-24.79	AVG
	8		3.1460	24.16	10.72	34.88	56.00	-21.12	QP
	9		5.5380	5.77	10.75	16.52	50.00	-33.48	AVG
>	10		8.2500	19.16	10.80	29.96	60.00	-30.04	QP
	11		22.7139	27.57	11.09	38.66	60.00	-21.34	QP
5	12		22.7139	-1.07	11.09	10.02	50.00	-39.98	AVG

Note1:

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 (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

O.P. =Quasi-Peak AVG =average

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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

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)
4	0.009~0.490	2400/F(KHz)	300
ш	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	3
-	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV	//m) (at 3M)
FREQUENCT (MINZ)	PEAK	AVERAGE
Above 1000	74	54

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		
À.	Start Frequency	1000 MHz		
	Stop Frequency	10th carrier harmonic		
	RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average		

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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TEST PROCEDURE

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- 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.
- 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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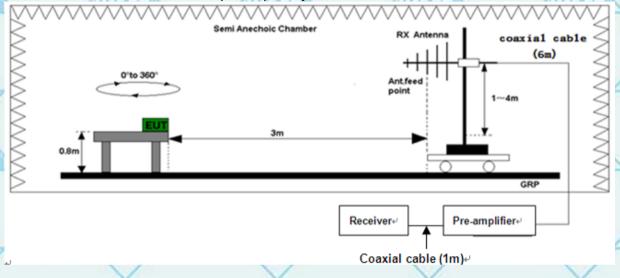
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TEST SETUP

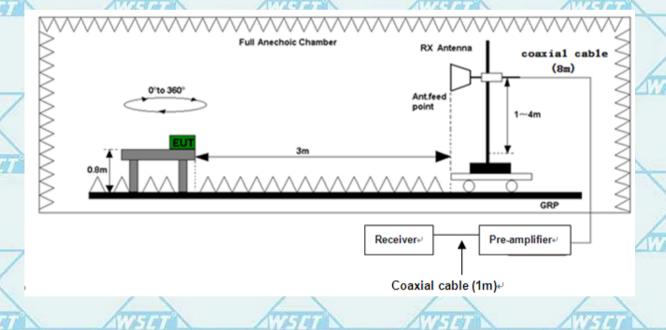
(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



(B) Radiated Emission Test-Up Frequency Above 1GHz

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7.3.2. Test Results

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

Please refer to following diagram for individual

Below 1GHz

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	4
1		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		30.8535	35.89	-3.20	32.69	40.00	-7.31	QP
2	1	36.8952	33.11	-2.42	30.69	40.00	-9.31	QP
3	*	68.1512	39.33	-5.13	34.20	40.00	-5.80	QP
4		194.4533	34.31	-6.10	28.21	43.50	-15.29	QP
74.5		570.6100	27.64	2.81	30.45	46.00	-15.55	QP
6		896.9964	27.60	6.94	34.54	46.00	-11.46	QP

World Stand 1857 pts Certification 19 Pts Stroup (Shear)







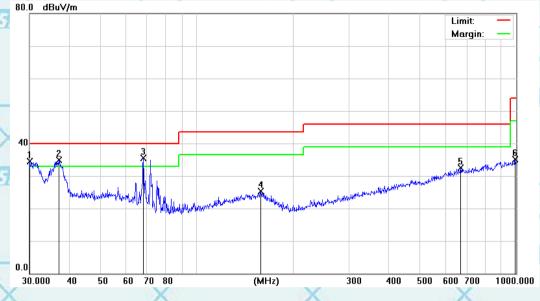


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3	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	GA.
ĺ			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	1/	30.1054	37.61	-3.20	34.41	40.00	-5.59	QP
	2		37.0248	37.25	-2.40	34.85	40.00	-5.15	QP
	3	*	68.1514	40.72	-5.13	35.59	40.00	-4.41	QP
	4		158.6677	27.29	-2.00	25.29	43.50	-18.21	QP
3	5	7	670.4893	27.88	4.70	32.58	46.00	-13.42	QP
	6	ć	993.0114	27.27	7.76	35.03	54.00	-18.97	QP

Note1:

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

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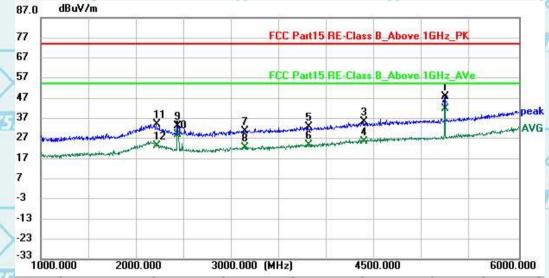
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TEST RESULTS

Above 1GHz(1~26GHz) :(Mode 3—worst case)

Horizontal:



2	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	5227.500	41.84	5.99	47.83	74.00	-26.17	peak	
	2 *	5227.500	35.83	5.99	41.82	54.00	-12.18	AVG	7
	3	4377.500	32.81	2.51	35.32	74.00	-38.68	peak	
?	4	4377.500	23.13	2.51	25.64	54.00	-28.36	AVG	
τ	5	3798.750	32.46	0.12	32.58	74.00	-41.42	peak	
	6	3798.750	23.46	0.12	23.58	54.00	-30.42	AVG	
	7	3133.125	32.71	-1.98	30.73	74.00	-43.27	peak	K
	8	3133.125	24.58	-1.98	22.60	54.00	-31.40	AVG	
	9	2438.750	37.04	-3.91	33.13	74.00	-40.87	peak	2
	10	2438.750	32.64	-3.91	28.73	54.00	-25.27	AVG	
	11	2211.250	35.78	-1.87	33.91	74.00	-40.09	peak	
5	12	2211.250	25.39	-1.87	23.52	54.00	-30.48	AVG	

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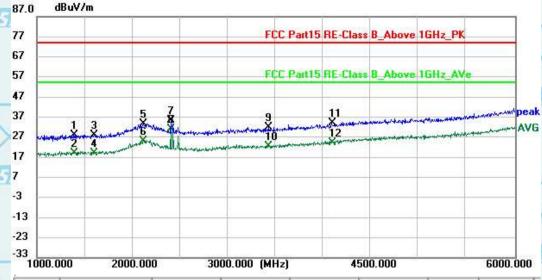


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Vertical:



>	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	1	1386.875	35.66	-7.48	28.18	74.00	-45.82	peak
	2	1386.875	26.38	-7.48	18.90	54.00	-35.10	AVG
	3	1603.750	35.54	-7.41	28.13	74.00	-45.87	peak
	4	1603.750	26.36	-7.41	18.95	54.00	-35.05	AVG
	5	2115.625	35.53	-1.75	33.78	74.00	-40.22	peak
>	6	2115.625	26.65	-1.75	24.90	54.00	-29.10	AVG
	7	2401.875	39.59	-4.03	35.56	74.00	-38.44	peak
7	8 *	2401.875	35.05	-4.03	31.02	54.00	-22.98	AVG
	9	3424.375	33.06	-1.31	31.75	74.00	-42.25	peak
	10	3424.375	23.95	-1.31	22.64	54.00	-31.36	AVG
	11	4088.750	32.60	1.35	33.95	74.00	-40.05	peak
	12	4088.750	22.77	1.35	24.12	54.00	-29.88	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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Test Setup Photographs

Please refer to Annex "Set Up Photos-15B" for test setup photos

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