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# **TEST REPORT**

TESTING NVLAP LAB CODE 600142-0

FCC ID: 2ADYY-B2 Product: Mobile Phone Model No.: B2 Additional Model No.: N/A Trade Mark: TECNO Report No.: FCC18110006A-15B Issued Date: Nov. 17, 2018

**Issued for:** 

TECNO MOBILE LIMITED ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

Issued By:

World Standardization Certification & Testing Group Co., Ltd. Building A-B, Baoshi Science & Technology Park, Baoshi Road, com Bao'an District, Shenzhen, Guangdong, China TEL: +86-755-26996192 FAX: +86-755-86376605

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 Co.,Ltd. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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Table of Contents

WSE

15E

151

WSE

15

V5E

151

Page 2 of 20

Page

3

4

5

9

10

11

11

15

75

15E

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- 1. GENERAL INFORMATION
- 2. GENERAL DESCRIPTION OF EUT 2.1. TEST DESCRIPTION
- **3. SUMMARY OF TEST RESULTS**
- 4. MEASUREMENT INSTRUMENTS

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151

5. EMC EMISSION TEST 5.1 CONDUCTED EMISSION MEASUREMENT 5.2 RADIATED EMISSION MEASUREMENT

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**1. GENERAL INFORMATION** 

Product:	Mobile Phone
Model No.:	B2
Additional Model:	N/A
Applicant:	TECNO MOBILE LIMITED
Address:	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C
Data of receipt:	Nov. 02, 2018
Date of Test:	Nov. 02, 2018 to Nov. 14, 2018
Applicable Standards:	FCC Rules Part15 Subpart B. ANSI C63.4-2014 .

TESTING NVLAP LAB CODE 600142-0

The above equipment has been tested by World Standardization Certification & Testing Group 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.

Date: Nov. 19,2018 Pu Shixi **Tested By:** (Pu Shixi) ticatic Qin Shujayan Check By: Date: Nov (Qin Shuiquan) WSCJ Date: VOU Approved By: (Wang Fengbing)

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2.	GENERALI	DESCRIPTION OF EUT For Question	
	Equipment Type:	Mobile Phone Please Contact with www.wsct-cert.c	wsc <sup>-</sup>
4	Test Model:	B2 WSET WSET WSET W	52
	Additional Model:	N/A	
	Trade Mark:	TECNO	
_	Applicant:	TECNO MOBILE LIMITED	
/	Address:	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG	X
	Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.	
	Address:	1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C	
	Hardware version:	V1.1	
	Software version:	B2-F8017F-GO-180919V48	
2	Extreme Temp. Tolerance:	-10℃ to +55℃	52
	Battery information:	Li-Polymer Battery : BL-30VT Voltage: 3.85V Rated Capacity: 3000mAh/11.55Wh Typical Capacity: 3050mAh/11.74Wh Limited Charge Voltage: 4.4V	
2	Adapter Information:	Adapter: A8-501000 Input: AC 100-240V 50/60Hz 200mA Output: DC 5V1.0A	× 51
	Deviation	None	
	Condition of Test Sample	Normal	

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Page 4 of 20

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### 2.1. TEST DESCRIPTION

**2.1.1 MEASUREMENT UNCERTAINTY** The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on "a" wave-cert.com standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** %  $\circ$ 

X			V V	Y
$\sim$	No.	Item	Uncertainty	$\wedge$
AWSET	1 W5	Conducted Emission Test	+3.2dB 507	WSET
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	
WSE	4	All emissions, radiated(<1G)	±4.7dB W5CT	WSET
	5	All emissions, radiated(>1G)	±4.7dB	
$\mathbf{X}$	6	Temperature	±0.5°C	$\mathbf{X}$
WSET	7	Humidity	±2%	WSET

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Report No.: FCC18110006-15B

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Page 5 of 20

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2.1.2 DESCRIPTION OF TEST MODES





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To investigate the maximum EMI emission characteristics generates from EUT, the test system<sup>ct-cert.com</sup> 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
Mode 1	Video Recording
Model 2	Video Playing
Mode 3	Exchange data with computer
Mode 4	ET WSET FM WSET

For Conducted Emission							
Final Test Mode	Test with Keyboard and Mouse						
Mode 1	Video Recording						
Model 2	Video Playing						
Mode 3	Exchange data with computer						
Mode 4 WSCT M							

For Radiated Emission							
Final Test Mode	Test with Keyboard and Mouse						
Mode 1 Video Recording							
Model 2	Video Playing						
Mode 3	Exchange data with computer						
Mode 4	CT WSCTFM WSCT						



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Report No.: FCC18110006-15B

Page 6 of 20







2.1.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)NG NVLAP LAB CODE 600142-0

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

					/	
$\sim$	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
$ \land $	1	Adapter	/	CU-52JT	/	/
WSET	2	Keyboard	HP5C7	SK-2880	435302-AA-	WSCT <sup>®</sup>
	3	Mouse	DELL	MS111-1		/

Note:

(1) (2) The support equipment was authorized by Declaration of Confirmation.

For detachable type I/O cable should be specified the length in cm in <sup>r</sup> Length <sup>a</sup> column.



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Report No.: FCC18110006-15B

Page 8 of 20



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## **3. SUMMARY OF TEST RESULTS**

Test procedures according to the technical standards:

### FCC Part15, Subpart B

567	Standard Section	Test Item	Judgment	Remark
	15.107	CONDUCTED EMISSION	PASS	
	15.109	RADIATED EMISSION	PASS	

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(1)" N/A" denotes test is not applicable in this test report.

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Report No.: FCC18110006-15B

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Page 9 of 20

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## 4. MEASUREMENT INSTRUMENTS

ufacturer Type N	o. Serial No.	Last Calibrated	Calibrated until
R&S ESCI	100005	08/19/2018	08/18/2019
AFJ LS16	16010222119	08/19/2018	08/18/2019
lestec W5/ 7 AN301	6 04/10040	08/19/2018	08/18/2019
CDSI PAP-1G1	8-38	08/19/2018	08/18/2019
CT SC10	0 -	08/19/2018	08/18/2019
Chase CBL611	1C 2576	08/19/2018	08/18/2019
R&S FSU2	6 200409	08/19/2018	08/18/2019
ARZBECK 9120E	D 1141	08/19/2018	08/18/2019
AREBECK VULB91	63 9163/340	08/19/2018	08/18/2019
H.P. HP8447	7E 2945A02715	10/13/2018	10/12/2019
>	< -	08/21/2018	08/20/2019
	ufacturerType NR&SESCIAFJLS16lestecAN301CDSIPAP-1G1CTSC100ChaseCBL611R&SFSU20/ARZBECK9120E'AREBECKVULB91H.P.HP8442	ufacturer       Type No.       Serial No.         R&S       ESCI       100005         AFJ       LS16       16010222119         lestec       AN3016       04/10040         CDSI       PAP-1G18-38          CT       SC100       -         Chase       CBL6111C       2576         R&S       FSU26       200409         /ARZBECK       9120D       1141         /AREBECK       VULB9163       9163/340         H.P.       HP8447E       2945A02715	ufacturer       Type No.       Serial No.       Last Calibrated Calibrated         R&S       ESCI       100005       08/19/2018         AFJ       LS16       16010222119       08/19/2018         lestec       AN3016       04/10040       08/19/2018         CDSI       PAP-1G18-38        08/19/2018         CT       SC100       -       08/19/2018         Chase       CBL6111C       2576       08/19/2018         Chase       FSU26       200409       08/19/2018         /ARZBECK       9120D       1141       08/19/2018         H.P.       HP8447E       2945A02715       10/13/2018            08/21/2018



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Page 10 of 20

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151







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## 5. EMC EMISSION TEST

#### 5.1 CONDUCTED EMISSION MEASUREMENT

#### 5.1.1 POWER LINE CONDUCTED EMISSION Limits (Free

ISSION Limits (Frequency Range 150KHz-30MHz)

A					A
	Class A	(dBuV)	Class B	Standard	
	Quasi-peak Average Quasi-peak Average		Standard		
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
W5_5.0 -30.0	73.00	60.00	<i>LT</i> 60.00	50.00 <i>LT</i>	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
$\sim$	Start Frequency	0.15 MHz
	Stop Frequency	30 MHz
WSET	WIF Bandwidth W5CT	W5[9 kHz W5[7





Report No.: FCC18110006-15B

9

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Page 11 of 20







#### 5.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being confected tact with WSCT to the power mains through a line impedance stabilization network (LISN). All other support wsct-cert.com 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.

#### 5.1.3 DEVIATION FROM TEST STANDARD

No deviation



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

Report No.: FCC18110006-15B

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Report No.: FCC18110006-15B

Page 13 of 20

WSCT <sup>®</sup>	World	d Standardization	Certification &	Testing Group	Co.,Ltd.				
	1				NVLA	P LAB CODE 600	142-0	E For Ques	tion
W	80.0 dB						Limi	it:	with WSCT ert.com
WISET WI	40	m	Munin	Why Mar and Marken	MM AMAN	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	, Ann	$\wedge$	WSET
WISET	0.0	0.1	5 Reading	(MHz) Correct	Measure	-		30.000	$\overline{}$
w	No. N	Mk. Freq.	Level	Factor	ment	Limit	Over		WSET
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
$\mathbf{X}$	1	0.1819	38.06	10.41	48.47	64.39	-15.92	QP	
AWSET <sup>®</sup>	2	0.1819	21.15	10.41	31.56	54.39	-22.83	AVG	
-	3	0.5299	34.97	10.47	45.44	56.00	-10.56	QP	$\mathbf{X}$
	4 '	0.5340	26.67	10.47	37.14	46.00	-8.86	AVG	
W-	5	1.4660	23.96	10.58	34.54	56.00	-21.46	QP	WSET
X	6	1.5620	15.42	10.59	26.01	46.00	-19.99	AVG	
WSET	7	3.2020	7.58	10.67	18.25	46.00	-27.75	AVG	
	8	3.9380	22.20	10.68	32.88	56.00	-23.12	QP	$\smallsetminus$
7	9	7.5340	8.37	10.74	19.11	50.00	-30.89	AVG	$\wedge$
W	10	7.7580	18.02	10.74	28.76	60.00	-31.24	QP	WSET°
$\mathbf{X}$	11	13.4980	12.93	10.98	23.91	50.00	-26.09	AVG	
WSET	12	13.7780	20.90	10.99	31.89	60.00	-28.11	QP	

Note: 1.All the modes have been investigated, and only worst mode is presented in this report. 2.Over=Reading Level + Correct Factor - Limit.

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Page 14 of 20

Report No.: FCC18110006-15B

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#### 5.2 RADIATED EMISSION MEASUREMENT

#### 5.2.1 Radiated Emission Limits

on Limits (Frequency Range 9kHz-1000MHz)

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)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
5c7° 1.705~30.0 w5c	30 w5c7	-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)			
	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
Start Frequency	5CT1000 MHzW5CT
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted   wscr   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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Report No.: FCC18110006-15B

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Page 15 of 20







#### **5.2.2 TEST PROCEDURE**

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 10H2. The www.wsct-cert.com 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. Note:

Both horizontal and vertical antenna polarities were tested work and performed pretest to three orthogonal axis. The worst case emissions were reported

#### 5.2.3 DEVIATION FROM TEST STANDARD

No deviation

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Page 18 of 20



Note: 1.All the modes have been investigated, and only worst mode is presented in this report. 2.Over=Reading Level+ Correct Factor - Limit.

Report No.: FCC18110006-15B

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Page 19 of 20







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#### 5.2.5.2 TEST RESULTS (1GHz to 25GHz)

This is the worst pattern data						www.wsct-cert.	com	
Temperature	20 °C	15/TT		Relative Hu	umidity	48%		75
Pressure	1010 h	)10 hPa		Test Mode		Mode 3		
	$\overline{\mathbf{V}}$		V		$\overline{\mathbf{V}}$		V	
Freq.	Ant.	Emis	ssion	Limi	t	Over	(dB)	
(MHz)	Pol.	Level(	dBuV)	3m(dBu)	V/m)			
	H/V	PK	AV	PK	AV	PK	AV	
1777.89	V	58.37	39.72	74	54	-15.63	-14.28	
2177.71	V	59.34	39.60	74	54	-14.66	-14.40	/
1618.77	Н	58.63	39.92	74	54	-15.37	-14.08 🧹	
2380.43	H	59.28	40.28	5674	54	-14.72	-13.72	5
1618.77 2380.43	Н	58.63 59.28	39.92 40.28	74 74	54 54	-15.37 -14.72	-14.08 -13.72	5.

#### Remark:

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All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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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Report No.: FCC18110006-15B

9

Page 20 of 20

150

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