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TEST REPORT

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.

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		\checkmark			
WSET		VSET	WSET	WSET	WSE
X	X	X		X	X
WSET	WSET	WSET	W	ET	WSET
WSET		V5ET	WSET	WSET	WSET
X	X	X		X	X
WSET	WSET	WSET	W	777	WSCT
WSET		V5ET	WSET	WSET	WSET
X	X	X		X	X
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1. GENERAL INFORMATION

	Product:	Mobile Phone
	Model No.:	B2
	Additional Model:	N/A
80	Applicant:	TECNO MOBILE LIMITED
and the second	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

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.

Tested By: Pu ShiXi

(Pu Shixi)

Check By: Qin Shuiquan

(Qin Shuiquan)

Approved By:

(Wang Fengbing)

Date: Nov. 19, 2018

Date: Nov. 19, 2018

Date: NOV.

WSET OF

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For Question,

2. GENERAL DESCRIPTION OF EUT

. OLITEITAL	DESCRIPTION OF LOT
Equipment Type:	Mobile Phone www.wsct-cert.d
Test Model:	B2 W5 T W5 T W5 T W
Additional Model:	N/A
Trade Mark:	TECNO WSCT WSCT
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
Hardware version:	V1.1
Software version:	B2-F8017F-GO-180919V48
Extreme Temp. Tolerance:	-10°C to +55°C
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
Adapter Information:	Adapter: A8-501000 Input: AC 100-240V 50/60Hz 200mA Output: DC 5V1.0A
Deviation	None
Condition of Test Sample	Normal

WSET WSET WSET WSET WSET WSET WSET WSET

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2.1. TEST DESCRIPTION

2.1.1 MEASUREMENT UNCERTAINTY

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The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on way well-cert.com standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately 95 % •

	No.	Item	Uncertainty	
W5ET*	1/W/5	Conducted Emission Test	±3.2dB 5 7	WSET
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	
WSE	4	All emissions, radiated(<1G)	±4.7dB W5LT	WSET
	5	All emissions, radiated(>1G)	±4.7dB	
	6	Temperature	±0.5°C	
WSET	7	Humidity	±2% w5 - 7	WSET
WSE		WSET WSE	WSET	WSCT
WSET	WS	ET WSET	WSET	WSET
WSE		WSCT		WSET
WSET	W	ET WSET	WSET	WSET
WSL	7	WSET WS		WSET
WSET		WSET	WSET	W5ET
\rightarrow		WSET WS	$\langle \hspace{0.1cm} \hspace{0.1cm}$	X
Certification	d lesting			X

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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 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	47
1	Model 2	Video Playing	
	Mode 3	Exchange data with computer	
Z	Mode 4	ET WSETFM WSET	

		/				
	For Conducted Emission					
Final Test Mode	Test with Keyboard and Mouse	L				
Mode 1	Mode 1 Video Recording					
Model 2	Video Playing					
Mode 3	Exchange data with computer					
Mode 4	ET WSET FM WSET					

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					

WSET	WSET	WSET	WSET	WSET	
\rightarrow			X	X	X
W5L	W	SET° W	SET	W5LT*	WSET°
WSET	WSET	WSET	WSET	WSET	$\overline{}$
ortification	W	SET W	SET	WSET	WSET

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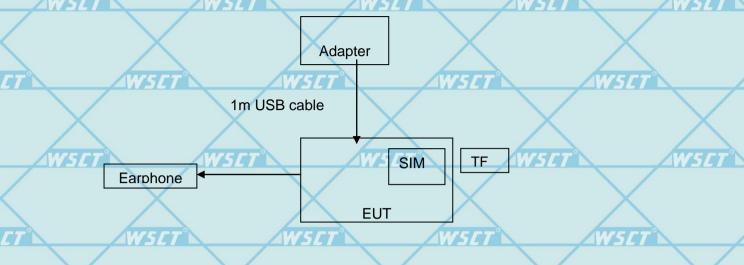


2.1.3 CONFIGURATION OF SYSTEM UNDER TEST

NVLAP LAB CODE 6001-

Mode 1&2&4&5:

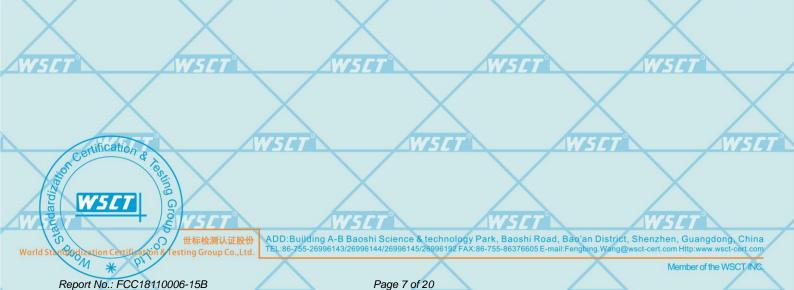
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W5ET (EUT: Mobile Phone) W5ET

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









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

	<i>y</i>					
	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
\	1	Adapter	/	CU-52JT	/	/
7	2	Keyboard	HP-7-7	SK-2880	435302-AA-	W5CT"
	3	Mouse	DELL	MS111-1	1	/

Note:

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

WSET WSET WSET W	SET
WSET WSET WSET	WSET
\times	SET
WSET WSET WSET	WSET
\times	SET
WSET WSET WSET	WSET
\times	(SET)
	WSET
WSCT WSCT WSCT WSCT WSCT WSCT WSCT WSCT	X

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3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

7					
		FCC Part15 , Subpart B			
	Standard Section	Test Item	Judgment	Remark	
	15.107	CONDUCTED EMISSION	PASS		
	15.109	RADIATED EMISSION	PASS		

NOTE:

	(1)" N/A" denotes test is	s not applicable in this to		
WSET*	W5ET*	WSET	WSET	WSET
	\vee		\vee	\vee
	WSET V	VSET [®]	V5ET W	SET WSET
\times		\sim	\sim	
WSET"	WSET	WSET	WSET	WSET
	\times	\times	\times	\times
	NAC CE	VCCC .	W.C. C.	Week August 1
	WSET [®]	VSET [®]	W5ET° W	SET [®] WSET
X	X	X	X	X
WSET	WSET	WSET	WSET	WSET
Z173614X				
	X	X	X	X
	WSET	VSET	WSET W	VSET WSET
X	X	X	X	X
WSET	WSET	WSET	WSET	W5ET*
	\/ \	\/	\/	
				\wedge
certif	ication	VSET .	WSET V	ISCT WSCT
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4. MEASUREMENT INSTRUMENTS

		/					
	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	4
	ESCI Test Receiver	R&S	ESCI	100005	08/19/2018	08/18/2019	
	LISN	AFJ	LS16	16010222119	08/19/2018	08/18/2019	
0	LISN(EUT)	Mestec W5/	AN3016	04/10040	08/19/2018	08/18/2019	
	pre-amplifier	CDSI	PAP-1G18-38		08/19/2018	08/18/2019	
	System Controller	СТ	SC100	-	08/19/2018	08/18/2019	
	Bi-log Antenna	Chase	CBL6111C	2576	08/19/2018	08/18/2019	7
7	Spectrum analyzer	R&S	FSU26	200409	08/19/2018	08/18/2019	
	Horn Antenna	SCHWARZBECK	9120D	1141	08/19/2018	08/18/2019	
0	Bi-log Antenna	SCHWAREBECK	VULB9163	9163/340	08/19/2018	08/18/2019	
	Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2018	10/12/2019	
	9*6*6 Anechoic	Χ	-X		08/21/2018	08/20/2019	<

	WSET	WSET	WSET	WSET	WSET
WSET	X	\times	7 W5		
	WSET	WSCT	WSET	WSET	WSET
WSET			$\langle \hspace{0.1cm} \rangle$		CT.
	WSET	WSET	WSET	WSET	WSET
WSET		\rightarrow			TET .
	\times	WSET	WSET	WSET	WSET
l'en	ertification & co				/

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5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
FREQUENCY (MITZ)	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	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
7	IF Bandwidth W5 [T]	<i>W5E</i> 9 kHz <i>W5ET</i> 1

	WSET	WSET	W5ET	W5ET*	WSET
WSE	$\langle \hspace{0.1cm} \rangle$	$\langle \ \rangle$			ET
	WSET	WSET	WSET	WSET	WSET
WSE	$\langle \hspace{0.1cm} \rangle$	$\langle \ \rangle$	T WS		ET
	\times	WSET	WSET	WSET	WSET
ardizani	WSET 0				

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For Question

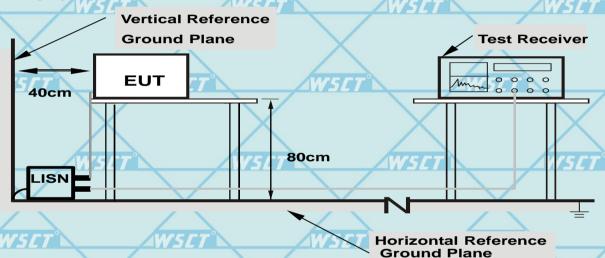
5.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being confected that 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

5.1.4 TEST SETUP



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.





TESTING NVLAP LAB CODE 600142-0

AVG:

30.000



5.1.6 TEST RESULTS

0.0 0.150

This is the worst pattern data

	The let the treat p	allotti dalla			or adoption.
	Temperature	26 ℃	Relative Humidity	E/10/	Contact with WSCT w.wsct-cert.com
	Pressure	1010hPa	Phase	L/N	August 1
_	Test Mode	Mode 3	<u>A</u>	VSL	WSLI

L:
80.0 dBuV

0.5

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
W	1		0.1758	39.78	10.41	50.19	64.68	-14.49	QP
	2		0.1819	24.58	10.41	34.99	54.39	-19.40	AVG
	3		0.5299	33.55	10.47	44.02	56.00	-11.98	QP
7	4	*	0.5340	25.14	10.47	35.61	46.00	-10.39	AVG
	5		1.3420	17.84	10.56	28.40	56.00	-27.60	QP
- km	6		1.5740	7.86	10.60	18.46	46.00	-27.54	AVG
118	7		2.6820	25.10	10.67	35.77	56.00	-20.23	QP
	8		2.6820	14.78	10.67	25.45	46.00	-20.55	AVG
7	9		7.0140	12.41	10.73	23.14	50.00	-26.86	AVG
	10		7.1820	21.15	10.73	31.88	60.00	-28.12	QP
	11		13.4620	14.98	10.98	25.96	50.00	-24.04	AVG
Certifical	12		13.5700	24.69	10.98	35.67	60.00	-24.33	QP

(MHz)

Walter |

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80.0

dBuV

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N5E1

V	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		ć
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
ľ	1		0.1819	38.06	10.41	48.47	64.39	-15.92	QP	
	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	
	4	*	0.5340	26.67	10.47	37.14	46.00	-8.86	AVG	4
V.	5		1.4660	23.96	10.58	34.54	56.00	-21.46	QP	-12
	6		1.5620	15.42	10.59	26.01	46.00	-19.99	AVG	
	7		3.2020	7.58	10.67	18.25	46.00	-27.75	AVG	
1	8		3.9380	22.20	10.68	32.88	56.00	-23.12	QP	
/	9		7.5340	8.37	10.74	19.11	50.00	-30.89	AVG	
V	10		7.7580	18.02	10.74	28.76	60.00	-31.24	QP	B
	11		13.4980	12.93	10.98	23.91	50.00	-26.09	AVG	
	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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5.2 RADIATED EMISSION MEASUREMENT

5.2.1 Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

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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
7	5/7° 1.705~30.0 W5/7	30 W5CT	30 /
	30~88	100	3
	88~216	150	3
	216~960	200	WELT 3
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MHz)	Limit (dBuV/m) (at 3M)				
FREQUENCY (MHz)	PEAK	AVERAGE			
Above 1000	74	54 W.S			

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	<i>SET</i> W-1000 MHz W <i>SET</i>
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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5.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to Temperature 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 W5222 and performed pretest to three orthogonal axis. The worst case emissions were reported

S.2.3 DEVIATION FROM TEST STANDARD

No deviation

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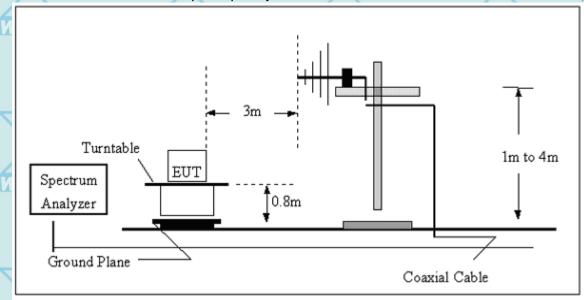




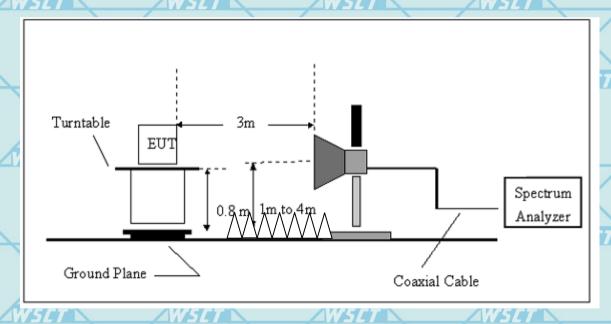
5.2.4 TEST SETUP

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

For Question,
Please Contact with WSCT
www.wsct-cert.com



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



5.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.





TESTING
NVLAP LAB CODE 600142-0

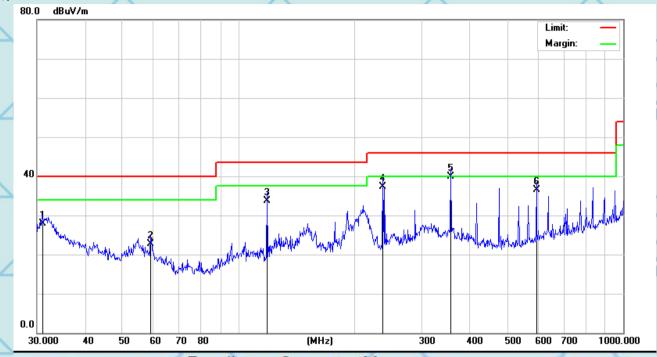


5.2.5.1 TEST RESULTS (Between 30M - 1000 MHz)

This is the worst pattern data

•	ino io trie worst patteri	i data			I OI QUESTION,	
	Temperature	20 ℃	Relative Humidity	48%	Please Contact with WS	3CT
	Tomporataro	20 0	Trolative Harrialty	1070	www.wsct-cert.com	
	Pressure	1010 hPa	Polarization :	Horizonta	ıl/Vertical	
					W/S	F7
_/	Test Mode	Mode 3				5/





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	Trans.
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	1	31.0704	23.53	4.38	27.91	40.00	-12.09	QP
_2		59.2325	28.79	-6.12	22.67	40.00	-17.33	QP
3	1	18.6012	36.49	-2.70	33.79	43.50	-9.71	QP
4	2	37.4758	42.68	-5.30	37.38	46.00	-8.62	QP
L 5	* 3	56.6757	41.72	-1.78	39.94	46.00	-6.06	QP
6	5	95.1327	35.68	0.88	36.56	46.00	-9.44	QP

WSET WSET

WSET WSET



WSET

ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com/









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

-3.01

-5.30

-1.50

1.41

30.38

24.30

34.08

35.66

43.50

46.00

46.00

46.00

-13.12

-21.70

-11.92

-10.34

QP

QP

QP

QP

33.39

29.60

35.58

34.25

WSET WSET WSET

世标检测认证股份 Condition Certification & Festing Group Co.,Ltd.

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ertification

3

4

5

6

104,1701

237,4760

356,6758

595.1329







5.2.5.2 TEST RESULTS (1GHz to 25GHz)

This is the worst pattern data

For Question,
Please Contact with WSCT
www.wsct-cert.com

	The lettre wordt p	attern data		
1	Temperature	20 °C _{1/5/7}	Relative Humidity	48%
_	Pressure	1010 hPa	Test Mode	Mode 3

	Freq.	Ant.	Emission		Limit		Over(dB)	
	(MHz)	Pol.	Level(dBuV)		3m(dBuV/m)		AVIET CONTRACTOR OF THE PARTY O	
1		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
4	1618.77	H	58.63	39.92	74	54	-15.37	-14.08
1	2380.43	H/I	59.28	40.28	74	54	-14.72	-13.72

Remark:

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.

WSET	WSET	WSET	WSET	WSET
W5ET W5ET	EN	D OF REPORT		SET
W5ET*	WSET	WSET	WSET	WSET
WSET WSET	WS	T W	5 <i>LT</i> W	SET
WSLT	WSET	WSLT	WSLT	WSET
WSET WSET				SET
	WSCT	WSET	WSET	WSET
Certification & Popular				

Report No.: FCC18110006-15B

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