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TEST REPORT

FCC ID: 2ADYY-T16RAPRO

Product: Laptop Computer

Model No.: T16RA Pro

Trade Mark: TECNO

Report No.: WSCT-A2LA-R&E240300011A-15B

Issued Date: 07 April 2024

Issued for:

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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TABLE OF CONTENTS

	ATTERNATION OF THE PARTY OF THE	1966	MILES AND A	01340
1.	Test Certification		111111111111111111111111111111111111111	3
2.	GENERAL DESCRIPTION OF EUT	X	<u>X</u>	4
72743.	Test Result Summary	WATER A	NILTER OF	5
4.	TEST METHODOLOGY			6
•••	4.1. CONFIGURATION OF SYSTEM UNDER TEST	\wedge	\wedge	
	4.2. DESCRIPTION OF SUPPORT UNITS (CONDU			18517
5.	MEASUREMENT INSTRUMENTS			9
6.	Facilities and Accreditations		1	10
W5/47	6.1. FACILITIES	AWSET	AWSET	10
	6.2. ACCREDITATIONS			10
	6.3. MEASUREMENT UNCERTAINTY			11
7.	EMC EMISSION TEST	75147	WST	25//
X	7.1. CONDUCTED EMISSION MEASUREMENT	X	X	
	7.2. RADIATED EMISSION MEASUREMENT			16
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Report No.: WSCT-A2LA-R&E240300011A-15B

1. Test Certification

Product: Laptop Computer

Model No.: T16RA Pro

Trade Mark: TECNO

Applicant: TECNO MOBILE LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer: TECNO MOBILE LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 04 March 2024 to 06 April 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.

Tested By:

Way Kiary

(Wang Xiang)

Checked By:

(No Peivun)

Approved By:

(Liu Fuxin)

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2. GENERAL DESCRIPTION OF EUT

				www.wact-ce
Equipment Type:	Laptop Computer	WSIA	77579	ATE
Test Model:	T16RA Pro	\vee		
Trade Mark	TECNO			
Rechargeable Li-Polymer Battery:	Model: N160 Nominal Voltage: 11.61V Rated Capacity: 8612mAh Rated Energy: 99.99Wh Limited Charge Voltage: 13.3	35V 5747	WEST OF THE STREET	
Adapter:	Adapter: A879-200500C-US1 Input: 100-240V~50/60Hz 2.5 Output:PD:5V3A/9V3A PPS 3.3-11V5A 55W Max	1 5A \/12V 3A/15V 		77
Remark:	N/A.	\vee	\sim	

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3. Test Result Summary

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1	Requirement	CFR 47 Section	Result
	CONDUCTED EMISSION	§15.107	PASS
	RADIATED EMISSION	§15.109	PASS

A17-19-	RADIATED EMISSION	116141	§15.109	PASS	
		X	X	X	X
	Note: 1. PASS: Test item meets the req	quirement.	WSLI	N/274	WATER
	2. Fail: Test item does not meet t				
	3. N/A: Test case does not apply				
AWSET	4. The test result judgment is dec	cided by the limit of te	st standard.	WHIT	
	\times	×	X	X	X
	NVESTED NVE	74	NIST 4	A7194	WHAT
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4. TEST METHODOLOGY

Pretest Mode

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.

Description

	Fretest Mode	Description	
1876	Mode 1	Video Recording	WATER
1	Model 2	Video Playing	/
X	Mode 3	TF Card Playing	
WEIGH	NV5147	WETER WE	THE STATE OF THE S
	X	\times \times \times	X
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X	X	\times \times \times	
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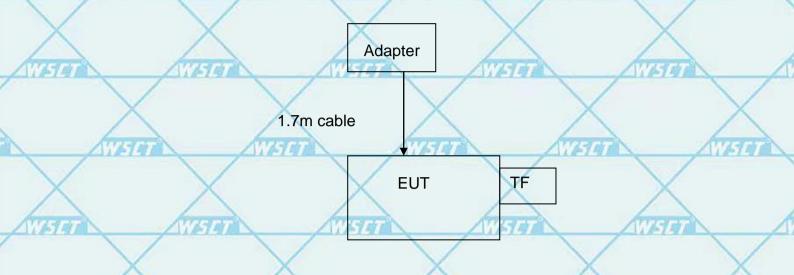
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CONFIGURATION OF SYSTEM UNDER TEST

Mode 1&2&4

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(EUT: Laptop Computer)

	I/O Port of EUT					
I	I/O Port Type	Q'TY	Cable	Tested with		
	Power	1	1.7m 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	SSD	jiangbolong	1TB	X	/

Note:	The support of	AV/3717	ovined by Dodovet	on of Confirmation.	AVSTIT
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6					
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	\times	X	X	X	X
- Au	579	NETH A	WSIG	WESTER	11514
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5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	7
×	Test software		EZ-EMC	CON-03A		X	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
7	LISN W54	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mastic	AN3016	04/10040	11/05/2023	11/04/2024	V
	pre-amplifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	ſ
	System Controller	CT	SC100		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	SCHWAREBECK	VULB9163	9163/340	11/05/2023	11/04/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	?
	9*6*6 Anechoic	17270	17250	- /	11/05/2023	11/04/2024	3

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Page 9 of 21

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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 32. 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
9	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
20	6	Temperature	±0.5°C
	7	Humidity	±2.0%

M	999	1777	NIE I	1774	WEIT
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	701	WESTER	NV5141	WHAT	N/SI B
WSI	Wister				1 -19 1
	100	NV-101	WSIG	WESTER	W/S/AT
WESTER	WATE	$\langle \cdot \rangle$			7519
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Page 11 of 21

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7. EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

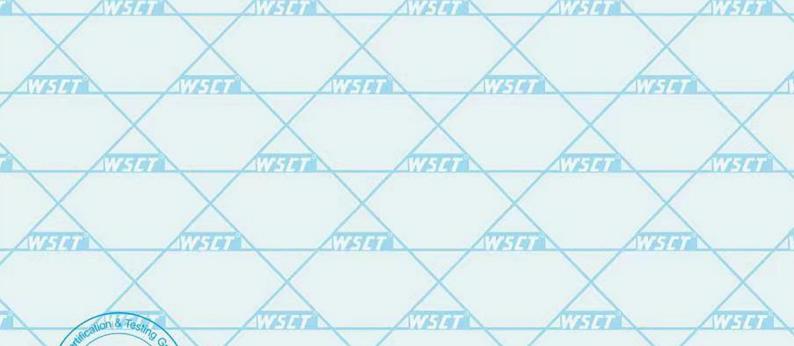
		AND THE PART OF TH				
9	FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
	0.50 -5.0	73.00	60.00	56.00	46.00	FCC
1	5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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.

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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80cm

H GRP

Power Cable

90cm



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TEST PROCEDURE

Receive

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- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains www.wsct-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.

Power input-

Shielding room VGRP coaxia1 cab1e(80cm)

WETER WETER

LISN

WEIGH WEIGH WEIGH

WETAT WETAT

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Page 13 of 21







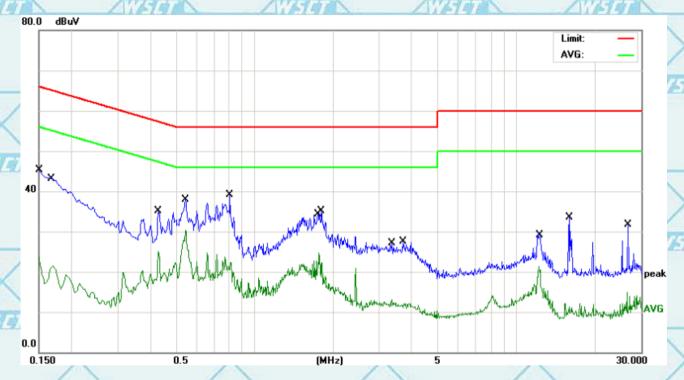
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7.1.2. Test Results

Ten	nperature	20 ℃	Relative Humidity	48%
Pre	ssure	1010 hPa	Test Mode	Adapter: Mode 3(the worst case)

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



	Nο	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
7	140.	IVIK.	<u> </u>						
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1500	34.78	10.45	45.23	65.99	-20.76	QP
4	2		0.1700	10.99	10.45	21.44	54.96	-33.52	AVG
	3		0.4300	24.67	10.50	35.17	57.25	-22.08	QP
	4	*	0.5460	19.86	10.52	30.38	46.00	-15.62	AVG
	5		0.8059	28.65	10.54	39.19	56.00	-16.81	QP
	6		1.7700	13.96	10.67	24.63	46.00	-21.37	AVG
7	7		1.8060	24.34	10.68	35.02	56.00	-20.98	QP
	8		3.3580	2.44	10.72	13.16	46.00	-32.84	AVG
2	9		3.6820	16.79	10.73	27.52	56.00	-28.48	QP
1	10		12.2380	10.24	11.00	21.24	50.00	-28.76	AVG
	11		15.9100	22.31	11.17	33.48	60.00	-26.52	QP
	12		26.5500	3.70	11.15	14.85	50.00	-35.15	AVG

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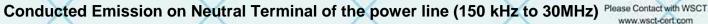






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				Reading	Correct	Measure-			
	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
1			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1500	11.28	10.45	21.73	55.99	-34.26	AVG
	2		0.1700	31.11	10.45	41.56	64.96	-23.40	QP
1	3		0.5460	26.71	10.52	37.23	56.00	-18.77	QP
	4	*	0.5460	20.06	10.52	30.58	46.00	-15.42	AVG
	5		0.7539	25.05	10.54	35.59	56.00	-20.41	QP
	6		0.7780	12.34	10.54	22.88	46.00	-23.12	AVG
4	7		1.7740	12.05	10.67	22.72	46.00	-23.28	AVG
	8		1.8060	22.15	10.68	32.83	56.00	-23.17	QP
	9		2.4380	8.64	10.71	19.35	46.00	-26.65	AVG
N	10		3.5140	13.61	10.73	24.34	56.00	-31.66	QP
	11		13.1420	16.65	11.06	27.71	60.00	-32.29	QP
	12		13.1420	7.89	11.06	18.95	50.00	-31.05	AVG

Note1:

Freq. = Emission frequency in MHz

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

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

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

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

Q.P. =Quasi-Peak AVG =average

neaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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Page 15 of 21









7.2. RADIATED EMISSION MEASUREMENT

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7.2.1. 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
7	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490	2400/F(KHz)	300
	0.490~1.705	24000/F(KHz)	30
4	1.705~30.0	30	30
À	30~88	100	3
	88~216	150	3
	216~960	200	X 3 X
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Λ				
2	EDEOLIENOV (MH2)	Limit (dBuV/m) (at 3M)			
	FREQUENCY (MHz)	PEAK	AVERAGE		
ľ	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	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











Report No.: WSCT-A2LA-R&E240300011A-15B

TEST PROCEDURE

Certificate #5768.01

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Member of the WSCT IN

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For the 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.

WHITE	WSTAT	N/FIA	WHITE	WEIGH	
NVE9		$\langle \ \rangle$	\times	\times	HIE
W-101	WESTER	WHITE	Wester	WHAT	
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WEIGH	W/5197	WETAT	W-5197	NV-514	,
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Page 17 of 21









Report No.: WSCT-A2LA-R&E240300011A-15B

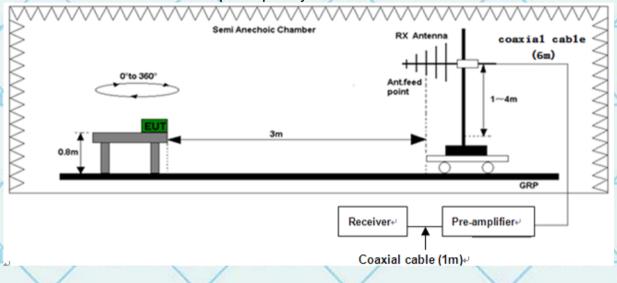
TEST SETUP

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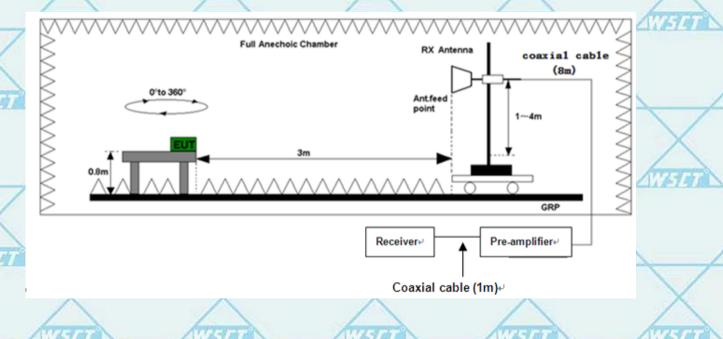
(A) Radiated Emission Test-Up Frequency 30MHz~1GHz

Certificate #5768.01

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



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



WSGT WSGT WSGT

ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86/755-26998192 26992308 FAX-86-755-86376605 E-mail: Fengbing Wang@wsct-cert.com Http://www.wsct-cert.com









Report No.: WSCT-A2LA-R&E240300011A-15B

7.2.2. Test Results

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For Question,
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	Temperature	20 ℃ /		Relative Humidity	48%	1		
,	Pressure	1010 hPa	E	Test Mode	Adapter: Mode 3(the worst case)	Ti	414	

Please refer to following diagram for individual Below 1GHz





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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	141	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
	1	*	30.2111	38.17	-1.72	36.45	40.00	-3.55	QP	7
	2	117	38.3462	33.97	-0.73	33.24	40.00	-6.76	QP	- 1
<	3		74.3955	34.72	-4.17	30.55	40.00	-9.45	QP	
	4		178.7584	36.47	-2.17	34.30	43.50	-9.20	QP	
9	5	1	331.3546	40.93	0.93	41.86	46.00	-4.14	QP	
	6	9	993.0114	27.20	14.44	41.64	54.00	-12.36	QP	>

WSET Sheppy

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ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86:755-26996192 26992306 FAX-86-755-86376605: E-mail: Fengbing.Wang@wsci-cert.com Http://www.wsci-cert.com





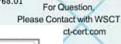


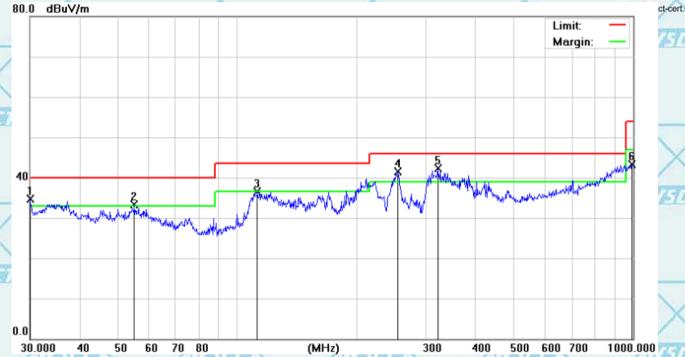


Report No.: WSCT-A2LA-R&E240300011A-15B









No	o. M	k. Freq	Reading Level	Correct Factor	A T T I will sale all	Limit	Over	746
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1 !	30.000	0 36.37	-1.73	34.64	40.00	-5.36	QP
	2 /	55.027	4 34.82	-1.45	33.37	40.00	-6.63	QP
7	3	112.524	4 39.31	-2.85	36.46	43.50	-7.04	QP
7	4 !	254.728	4 43.12	-1.56	41.56	46.00	-4.44	QP
L	5 *	321.060	8 41.51	0.76	42.27	46.00	-3.73	QP
(3	993.011	4 28.96	14.44	43.40	54.00	-10.60	QP

Note:

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 μ V) - Limits (dB μ V)

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TEST RESULTS

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

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,	Freq.	Ant.	Emission		Limit		Over(dB)		
	(MHz)	Pol.	Level(dBuV)		3m(dBuV/m)				
		H/V	PK	AV	PK	AV	PK	AV	
7	1754.45	V	58.56	40.03	74	54	-15.44	-13.97	
_	2942.65	V	58.27	40.69	74	54	-15.73	-13.31	
	1867.48	Н	58.54	39.88	74	54	-15.46	-14.12	
	2883.40	Н	58.44	39.44	74	54	-15.56	-14.56	

Remark:

S NOW * PIT

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.

WET	NV-3	****END OF REP	PORT****	111	WEIGH
WETER	W.ST.	WEIGH	WETER	WEIGH	
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WATE	WSIN .	WETAT	W65191	Wester	
WEIG		AVE	AW.	741	Wester
NVSIAI	NATE OF THE PARTY	WEIGH	WASTER	N/F/4	
X				747	WASTER OF
Autication & Testy	30 6				

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