







Certificate #5768.01 For Question,
Please Contact with WSCT
www.wsct-cert.com

TEST REPORT

FCC ID: 2A5UI-BM7IIDS

Product: LCD monitors
Model No.: BM7IIDS

Additional Model No.: BM7DS ,LH6W,LH6X,LH6P,LS7P ,RECKEY II BT II ,BTIII WRX ,WTX,LH5X,Keygrip J,Keygrip N,Pico Mini,LINKEY Mini,LINKEY CTRL,LH5PIII.WRV7

Trade Mark: PortKeys

Report No.: WSCT-A2LA-R&E240600028A-15B

Issued Date: 22 July 2024

Issued for:

SHENZHEN PORTKEYS ELECTRONIC TECHNOLOGY CO.,LTD Room 201, Building 1, No. 101, ShangWei Road, ShangWei Village, ZhangKengJing Community, GuanHu Street, LongHua District, ShenZhen

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd.
Building A-B, Baoshi Science & Technology Park, Baoshi Road, Testing 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(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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Report No.: WSCT-A2LA-R&E240600028A-15B

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Test Certification

Product: LCD monitors

Model No.:

BM7IIDS

Additional Model:

BM7DS ,LH6W,LH6X,LH6P,LS7P ,RECKEY II BT II ,BTIII WRX ,WTX,LH5X,Keygrip J,Keygrip N,Pico Mini,LINKEY

Mini, LINKEY CTRL, LH5PIII, WRV7

Trade Mark:

Port Keys

Applicant:

SHENZHEN PORTKEYS ELECTRONIC TECHNOLOGY CO.,LTD

Address:

Room 201, Building 1, No. 101, ShangWei Road, ShangWei Village, ZhangKengJing Community, GuanHu Street, LongHua District,

ShenZhen

Manufacturer:

SHENZHEN PORTKEYS ELECTRONIC TECHNOLOGY CO.,LTD

Address:

Room 201, Building 1, No. 101, ShangWei Road, ShangWei Village, ZhangKengJing Community, GuanHu Street, LongHua District,

ShenZhen

Date of Test:

11 June 2024 to 22 July 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: _	(Wang Xiang)	Checked By:	(Chen Xu)	Lation & Testing G
WSET Approved By:	(Liu Fuxin)	Date: V5	2 July	WSET WOM * PILOS

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GENERAL DESCRIPTION OF EUT

Equipment Type:	LCD monitors
Model No.:	BM7IIDS
Additional Model:	BM7DS ,LH6W,LH6X,LH6P,LS7P ,RECKEY II BT II ,BTIII WRX ,WTX,LH5X,Keygrip J,Keygrip N,Pico Mini,LINKEY Mini,LINKEY CTRL,LH5PIII,WRV7
Trade Mark	Port <u>ke</u> ys
Power Supply	DC 12V
Remark:	N/A.

Models difference:

BM7IIDS, BM7DS, LH6W,LH6X,LH6P,LS7P, RECKEYII BTII,BTIII WRX,WTX,LH5X,Keygrip J,Keygrip N,Pico Mini,LINKEY Mini,LINKEY CTRL,LH5PIII,WRV7 are series models, only the appearance size is different, the main test is BM7IIDS.

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Test Result Summary 3.

ZIPINES ZIPIN		Z P T R Z
Requirement	CFR 47 Section	Result
CONDUCTED EMISSION	§15.107	PASS
RADIATED EMISSION	§15.109	PASS

	CONDUCTED EMISSION	§15.107	PASS
AW5197	RADIATED EMISSION	§15.109	PASS
	Note:	ement	VISTO VISTO
1	PASS: Test item meets the require Real: Test item does not meet the	onone.	
X	3. N/A: Test case does not apply to t	X	X
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	WATER		V 43 4 4 1
X	VIA-141	WESTER	WHEN
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	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	Descript	tion	X
1 AV	Mode 1	Description BT	W-747	17510
	Model 2	Wi-F		110190
X	Wieder	X	\times	
ATHE	1775	ATTEN	WSET	44
	X	X	X	X
_				
172	TET	STATE NUMBER	11751-1	WSIET
SYSTATE	AV STATE	AVF14TA	WSIGT	41
/		\wedge		
AVV	747	STET AVEIET	WSET	17574
	X	X	X /	
17674	WSG	N/S/M	WAS AWAS	To a second
	X	X	X	X
1	TET N	Ha WHA	WSCI	AV-TOT
				1
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	X	X	X	X
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4.1. CONFIGURATION OF SYSTEM UNDER TEST

Mode 1&2

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1.2m cable

Laptop

HDMI

EUT

(EUT: LCD monitors)

I/O Port of EUT					
I/O Port Type	Q'TY	Cable	Tested with		
Power	1	1.2m cable, unshielded	1		
HDMI	X	1.5m 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	X /	60-12-3-B	X	/
2	Laptop	HP	/	And a	1

Note:

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

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WE			$\langle \ \rangle$	174	1619
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NV51	W	THE WAY	TO W	5141	WESTER
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World Stank of Days Commonton	To Group (Shenz)	N/F191	VI-198	VI-18	,
World Star Vi Crano Cermication	世标检測认证股份 AD TE	D:Building A-B Baoshi Science & To :86 755-26996192 26992306 FAX:	and the second s	an District, Shenzhen, Guangdo ang@wsct-cert.com Http://www.wsc	ng, China

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MEASUREMENT INSTRUMENTS 5.

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	7
X	Test software		EZ-EMC	CON-03A		X	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
1	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mastic	AN3016	04/10040	11/05/2023	11/04/2024	×
	pre-amplifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	
	System Controller	CT	SC100		11/05/2023	11/04/2024	1
V	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
3	Horn Antenna	SCHWARZBECK	9120D	1141	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	6
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	^
	9*6*6 Anechoic	17474	1774		11/05/2023	11/04/2024	7

ATTE	WSET	WHAT	WSIG	WSEI	
		$\langle \hspace{0.1cm} \rangle$			X
AVE	THE ATT	ET AVE	GT AV	146	N-FET
W-141	W5101	WEIGH	W5191	W-191	
					7/2-741
VIETUT	WATER A	NIE I II	N/2-1-9	VI6390	,
					V/-5100
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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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Certificate #5768.01 **Measurement Uncertainty**

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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 %.

7	No.	Item	MU
		Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
1	4	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature	±0.5°C
	7 X	Humidity	±2.0%

	WATER	1779	17/5/4	WSG	WATER
	X	\times	1514T		700
7	WESTER	NEG	WSGI	N/F3/4/F	MATERIA
	WESTER	W-Top W	FT THE TWO	NV	7191
/	Wester	NV5101	WSTO	WASTER	WSter
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7. EMC EMISSION TEST

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7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

b,			LTBM	- A T A T A	PLIATED IN	
FREQUENCY (MHz)		Class A (dBuV)		Class B	Standard	
	TINEQUEINOT (IVII 12)	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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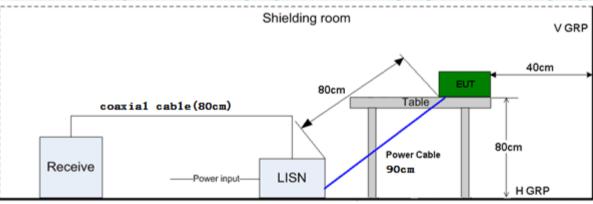
Certificate #5768.01

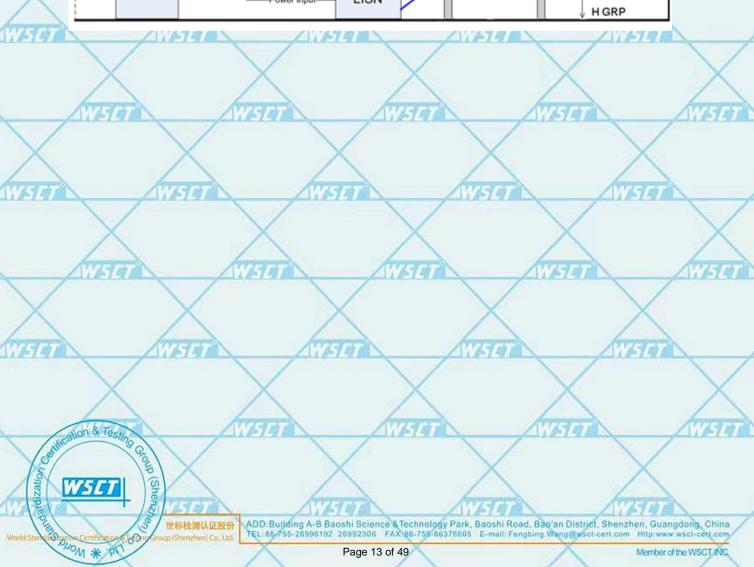
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TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power 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.
- 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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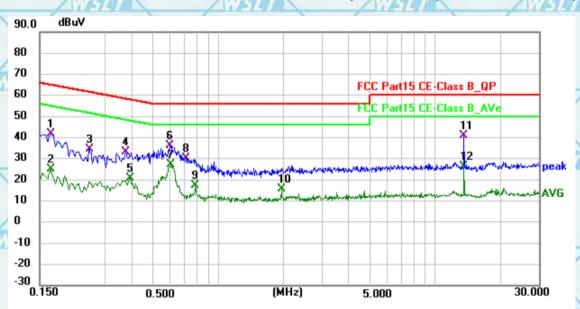
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7.1.2. Test Results

,	Temperature	20 ℃	Relative Humidity	48%
	Pressure	1010 hPa	Test Mode	Mode 2(the worst case)

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Á
_ 1	0.1680	21.08	20.72	41.80	65.06	-23.26	QP	
2	0.1680	4.31	20.72	25.03	55.06	-30.03	AVG	
3	0.2535	13.91	20.66	34.57	61.64	-27.07	QP	
4	0.3750	12.58	20.59	33.17	58.39	-25.22	QP	-
5	0.3930	0.40	20.57	20.97	48.00	-27.03	AVG	1
6	0.5955	15.57	20.52	36.09	56.00	-19.91	QP	
7 *	0.6045	6.62	20.53	27.15	46.00	-18.85	AVG	
8	0.7125	9.87	20.55	30.42	56.00	-25.58	QP	
9	0.7845	-3.09	20.58	17.49	46.00	-28.51	AVG	1
10	1.9590	-4.83	20.61	15.78	46.00	-30.22	AVG	
11	13.5645	20.59	20.25	40.84	60.00	-19.16	QP	1
12	13.5645	6.19	20.25	26.44	50.00	-23.56	AVG	

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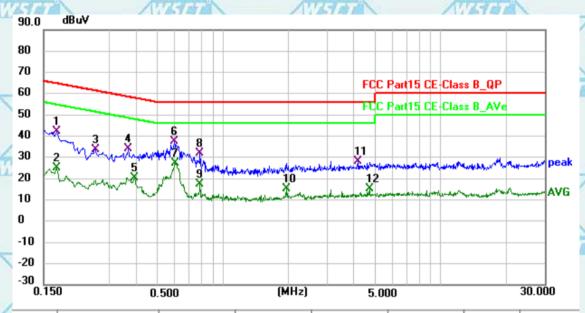




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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



1	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
	1	0.1724	42.13	0.00	42.13	64.84	-22.71	QP
	2	0.1724	25.13	0.00	25.13	54.84	-29.71	AVG
1	3	0.2580	33.81	0.00	33.81	61.50	-27.69	QP
	4	0.3660	33.97	0.00	33.97	58.59	-24.62	QP
4	5	0.3930	20.57	0.00	20.57	48.00	-27.43	AVG
	6 *	0.5955	37.64	0.00	37.64	56.00	-18.36	QP
	7	0.6000	27.11	0.00	27.11	46.00	-18.89	AVG
	8	0.7844	31.86	0.00	31.86	56.00	-24.14	QP
7	9	0.7844	17.30	0.00	17.30	46.00	-28.70	AVG
	10	1.9590	15.28	0.00	15.28	46.00	-30.72	AVG
4	11	4.1820	28.19	0.00	28.19	56.00	-27.81	QP
1	12	4.6994	15.11	0.00	15.11	46.00	-30.89	AVG

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = 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

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

Q.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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7.2. RADIATED EMISSION MEASUREMENT

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:

Frequenci		Field Strength		urement Dist	ance
(MHz)	((micorvolts/mete	er)	(meters)	
0.009~0.4	.90	2400/F(KHz)		300	
0.490~1.7	05	24000/F(KHz)		30	
1.705~30	0.0	30	-	30	
30~88	11-1-1-1	100	7	3	-
88~216		150		3	
216~960	0	200		3	X
Above 96	60	500		3	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

4	FREQUENCY (MHz)	Limit (dBu\	//m) (at 3M)
ú	TINEQUENCT (MITZ)	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	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&E240600028A-15B

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.











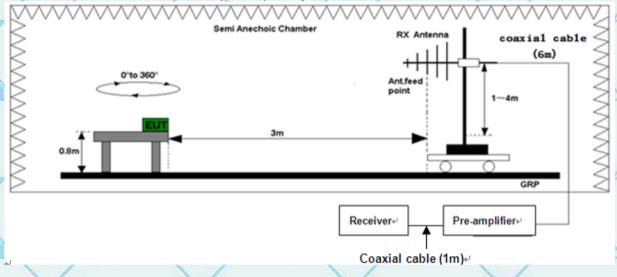
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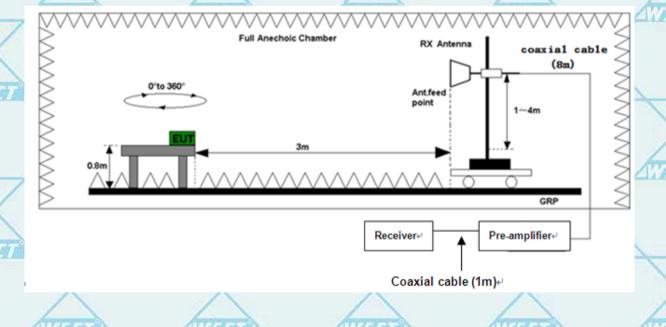
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TEST SETUP

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



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



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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









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7.2.2. Test Results

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Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2(the worst case)

Please refer to following diagram for individual **Below 1GHz**

Horizontal:



	No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	141
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		37.0248	34.58	-1.87	32.71	40.00	-7.29	QP
	2	N	186.4409	43.01	-5.13	37.88	43.50	-5.62	QP
_	3		232.5318	41.97	-4.32	37.65	46.00	-8.35	QP
	4	*	272.2776	45.56	-3.24	42.32	46.00	-3.68	QP
2	7 5	A	322.1886	41.48	-1.85	39.63	46.00	-6.37	QP
V	6		893.8567	27.95	7.49	35.44	46.00	-10.56	QP

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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





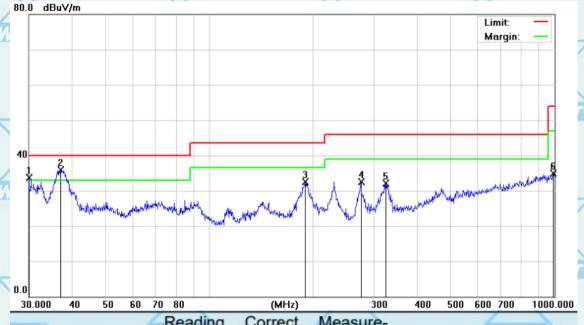




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Vertical:

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4	No.	Mk.	Freq.	Reading Level	Correct	Measure- ment	Limit	Over	THE STATE OF
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	1 /	30.0000	36.21	-2.60	33.61	40.00	-6.39	QP
	2	XI	37.0248	37.75	-1.87	35.88	40.00	-4.12	QP
1	3		189.7385	37.79	-5.34	32.45	43.50	-11.05	QP
1	4		275.1570	35.71	-3.19	32.52	46.00	-13.48	QP
M	5	1	324.4561	33.84	-1.80	32.04	46.00	-13.96	QP
	6	-	993.0114	26.40	8.55	34.95	54.00	-19.05	QP

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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ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992300 FAX-86-755-86376605 E-mail: Fengbing.Wang@wsci-cert.com Http://www.wsci-cert.com









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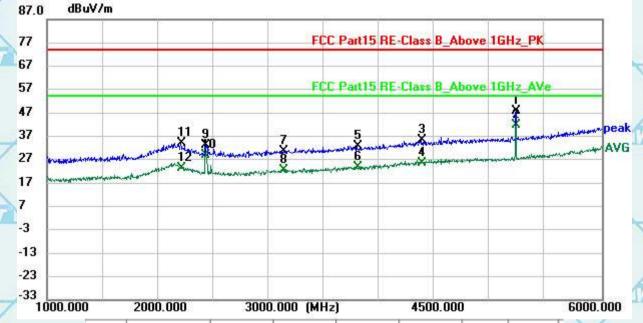
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TEST RESULTS

Above 1GHz(1~26GHz) : (Mode 2—worst case)

Note: The spurious above 6G is noise only, do not show on the report.

Horizontal:



	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	1
1	2 *	5227.500	35.83	5.99	41.82	54.00	-12.18	AVG	
ľ	3	4377.500	32.81	2.51	35.32	74.00	-38.68	peak	
5	4	4377.500	23.13	2.51	25.64	54.00	-28.36	AVG	
4	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	
	8	3133.125	24.58	-1.98	22.60	54.00	-31.40	AVG	K
7	9	2438.750	37.04	-3.91	33.13	74.00	-40.87	peak	1
	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	
-	12	2211.250	25.39	-1.87	23.52	54.00	-30.48	AVG	

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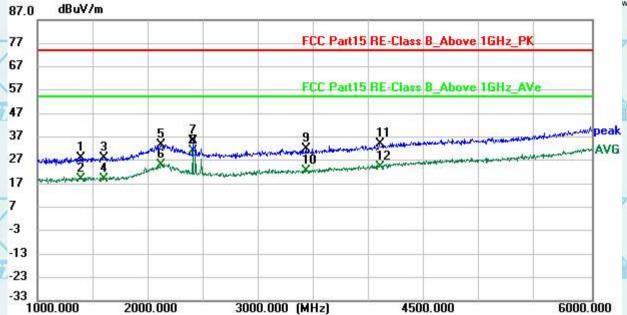


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Vertical:

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1	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	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	1
7	4	1603.750	26.36	-7.41	18.95	54.00	-35.05	AVG	k
	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	
	8 *	2401.875	35.05	-4.03	31.02	54.00	-22.98	AVG	1
	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	1
1	12	4088.750	22.77	1.35	24.12	54.00	-29.88	AVG	

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.

****END OF REPORT****

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ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992300 FAX-86-755-86376605 E-mail: Fengbing.Wang@wsci-cert.com Http://www.wsci-cert.com