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## APPLICATION CERTIFICATION FCC Part 15C On Behalf of Legamaster International B.V.

### e-Screen ETX slot-in Android box

Model No.: RK3399

FCC ID: 2AKP8-RK3399

Prepared for : Legamaster International B.V.

Address : Kwinkweerd 62, NL-7241 CW Lochem Postbus 111, NL-7240

AC Lochem

Prepared by : Shenzhen Accurate Technology Co., Ltd.

Address : 1/F., Building A, Changyuan New Material Port, Science & Industry

Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

Tel: (0755) 26503290 Fax: (0755) 26503396

Report No. : ATE20181647

Date of Test : Sep. 06, 2018-Sep. 28, 2018

Date of Report : Sep. 29, 2018

Report No.: ATE20181647 Page 2 of 45

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## **Test Report Certification**

Applicant : Legamaster International B.V.

Address : Kwinkweerd 62, NL-7241 CW Lochem Postbus 111, NL-7240

AC Lochem

Manufacturer : Legamaster International B.V.

Address : Kwinkweerd 62, NL-7241 CW Lochem Postbus 111, NL-7240

AC Lochem

Product e-Screen ETX slot-in Android box

Model No. : RK3399

Trade name : Legamaster

Measurement Procedure Used:

### FCC Rules and Regulations Part 15 Subpart C Section 15.247 ANSI C63.10: 2013

The EUT was tested according to DTS test procedure of Aug. 24, 2018 KDB558074 D01 DTS Meas Guidance v05 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by SHENZHEN ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and SHENZHEN ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of SHENZHEN ACCURATE TECHNOLOGY CO. LTD.

Date of Test:	Sep. 06, 2018-Sep. 28, 2018
Date of Report:	Sep. 29, 2018
Prepared by :	Timphary
	( Tin Harig, Error ber)
Approved & Authorized Signer :	- em-
_	(Sean Liu, Manager)



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## 1. GENERAL INFORMATION

## 1.1.Description of Device (EUT)

EUT : e-Screen ETX slot-in Android box

Model Number : RK3399

Bluetooth version : BT V4.0 Dual Mode

This report is for BT V4.0 LE mode

Frequency Range : 2402MHz-2480MHz

Number of Channels : 40

Antenna Gain : 2dBi

Antenna type : External Antenna

Power Supply : DC  $12\sim19V$ 

Modulation mode : GFSK

Applicant : Legamaster International B.V.

Address : Kwinkweerd 62, NL-7241 CW Lochem Postbus 111,

NL-7240 AC Lochem

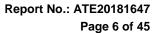
Manufacturer : Legamaster International B.V.

Address : Kwinkweerd 62, NL-7241 CW Lochem Postbus 111,

NL-7240 AC Lochem

Date of sample received: Sep. 06, 2018

Date of Test : Sep. 06, 2018-Sep. 28, 2018





# 1.2. Carrier Frequency of Channels

Channel	Frequeeny (MHz)	Channel	Frequeeny (MHz)	Channel	Frequeeny (MHz)	Channe 1	Frequeeny (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

# 1.3. Special Accessory and Auxiliary Equipment

PC Manufacturer: LENOVO

M/N: 4290-RT8

S/N: R9-FW93G 11/08

Adapter Manufacturer: N/A

INPUT: 100-240V 50/60Hz OUTPUT: DC 12V 5A



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## 1.4.Description of Test Facility

EMC Lab : Recognition of accreditation by Federal

Communications Commission (FCC)
The Designation Number is CN1189
The Registration Number is 708358

Listed by Innovation, Science and Economic

Development Canada (ISEDC)
The Registration Number is 5077A-2

Accredited by China National Accreditation Service

for Conformity Assessment (CNAS)

The Registration Number is CNAS L3193

Accredited by American Association for Laboratory

Accreditation (A2LA)

The Certificate Number is 4297.01

Name of Firm : Shenzhen Accurate Technology Co., Ltd.

Site Location : 1/F., Building A, Changyuan New Material Port,

Science

& Industry Park, Nanshan District, Shenzhen,

Guangdong, P.R. China

### 1.5. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2

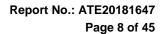
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2

(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2

(Above 1GHz)





# 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment** 

Kind of equipment	Manufacturer	Туре	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 06, 2018	Jan. 05, 2019
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 06, 2018	Jan. 05, 2019
Spectrum Analyzer	Rohde&Schwarz	FSV-40	101495	Jan. 06, 2018	Jan. 05, 2019
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 06, 2018	Jan. 05, 2019
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 06, 2018	Jan. 05, 2019
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 06, 2018	Jan. 05, 2019
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 06, 2018	Jan. 05, 2019
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 06, 2018	Jan. 05, 2019
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 06, 2018	Jan. 05, 2019
Open Switch and Control Unit	Rohde&Schwarz	OSP120 + OSP-B157	101244 + 100866	Jan. 06, 2018	Jan. 05, 2019
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 06, 2018	Jan. 05, 2019
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 06, 2018	Jan. 05, 2019
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 06, 2018	Jan. 05, 2019
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 06, 2018	Jan. 05, 2019





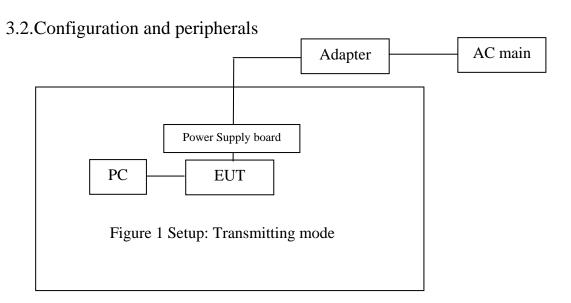
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## 3. OPERATION OF EUT DURING TESTING

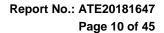
## 3.1. Operating Mode

The mode is used: BLE Transmitting mode

Low Channel: 2402MHz Middle Channel: 2440MHz High Channel: 2480MHz



(EUT: e-Screen ETX slot-in Android box)





# 4. TEST PROCEDURES AND RESULTS

FCC Rules	<b>Description of Test</b>	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	N/A
Section 15.203	Antenna Requirement	Compliant

Note: The power supply mode of the EUT is DC 12-19V, According to the FCC standard requirements, conducted emission is not applicable.



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## 5. 6DB BANDWIDTH MEASUREMENT

## 5.1.Block Diagram of Test Setup



(EUT: e-Screen ETX slot-in Android box)

## 5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

## 5.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT and simulator as shown as Section 5.1.
- 5.4.2. Turn on the power of all equipment.
- 5.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

### 5.5.Test Procedure

- 5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 5.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.
- 5.5.3.The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

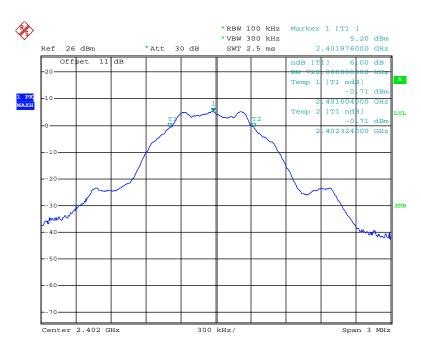


## 5.6.Test Result

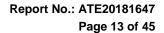
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit(MHz)	PASS/FAIL
0	2402	0.720	0.5	PASS
19	2440	0.720	0.5	PASS
39	2480	0.720	0.5	PASS

The spectrum analyzer plots are attached as below.

### channel 0

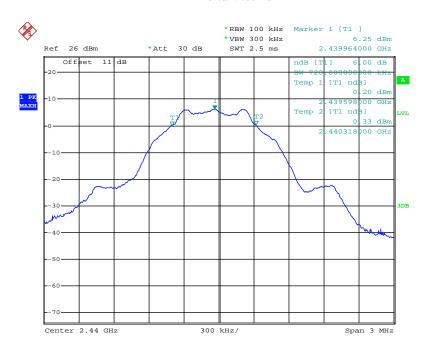


Date: 11.UÓ\$.2018 15:19:47



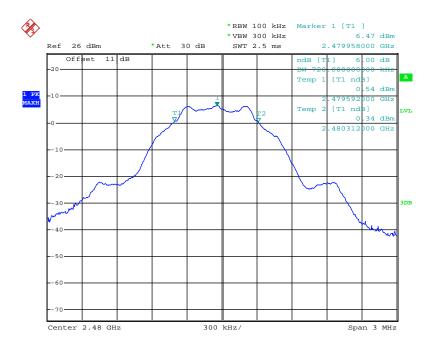


### channel 19



Date: 11.UÓ\$.2018 15:21:16

### channel 39



Date: 11.UÓŞ.2018 15:21:53



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## 6. MAXIMUM PEAK OUTPUT POWER

## 6.1.Block Diagram of Test Setup



(EUT: e-Screen ETX slot-in Android box)

## 6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

## 6.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 6.4. Operating Condition of EUT

- 6.4.1. Setup the EUT and simulator as shown as Section 6.1.
- 6.4.2. Turn on the power of all equipment.
- 6.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

#### 6.5. Test Procedure

- 6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 6.5.2.Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.
- 6.5.3. Measurement the maximum peak output power.



## 6.6.Test Result

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Limit (dBm)	Pass / Fail	
0	2402	5.92	30	PASS	
19	2440	6.93	30	PASS	
39	2480	6.94	30	PASS	

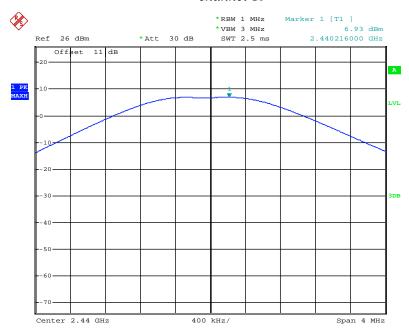
The spectrum analyzer plots are attached as below.

# 

Date: 11.UÓŞ.2018 15:24:08



### channel 19

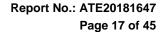


Date: 11.UÓ\$.2018 15:24:42

### channel 39



Date: 11.UÓŞ.2018 15:23:22





7. POWER SPECTRAL DENSITY MEASUREMENT

## 7.1.Block Diagram of Test Setup



(EUT: e-Screen ETX slot-in Android box)

## 7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

## 7.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 7.4. Operating Condition of EUT

- 7.4.1. Setup the EUT and simulator as shown as Section 7.1.
- 7.4.2. Turn on the power of all equipment.
- 7.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.



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## 7.5.Test Procedure

- 7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.
- 7.5.2.Measurement Procedure PKPSD:
- 7.5.3. This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.
  - 1. Set analyzer center frequency to DTS channel center frequency.
  - 2. Set the span to 1.5 times the DTS channel bandwidth.
  - 3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
  - 4. Set the VBW  $\geq$  3 x RBW.
  - 5. Detector = peak.
  - 6. Sweep time = auto couple.
  - 7. Trace mode = max hold.
  - 8. Allow trace to fully stabilize.
  - 9. Use the peak marker function to determine the maximum amplitude level.
  - 10. If measured value exceeds limit, reduce RBW (no less than 3kHz) and repeat.
- 7.5.4. Measurement the maximum power spectral density.

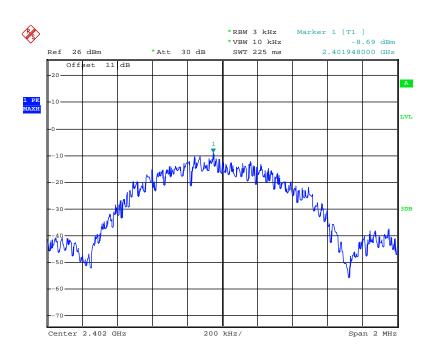


## 7.6.Test Result

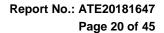
CHANNEL NUMBER	FREQUENCY (MHz)	PSD (dBm/3KHz)	LIMIT (dBm/3KHz)	PASS/FAIL
0	2402	-8.69	8	PASS
19	2440	-7.57	8	PASS
39	2480	-7.46	8	PASS

The spectrum analyzer plots are attached as below.

## channel 0

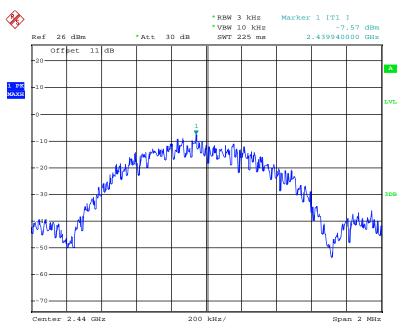


Date: 11.UÓ\$.2018 15:26:13



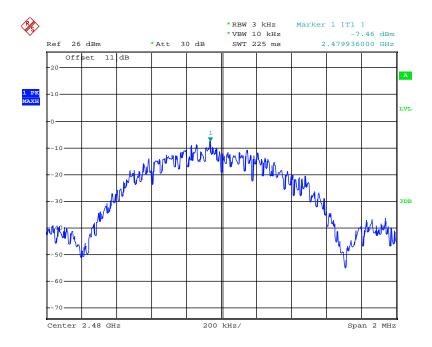






Date: 11.UÓŞ.2018 15:25:41

### channel 39



Date: 11.UÓ\$.2018 15:26:39



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## 8. BAND EDGE COMPLIANCE TEST

## 8.1.Block Diagram of Test Setup



(EUT: e-Screen ETX slot-in Android box)

## 8.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 8.3.EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 8.4. Operating Condition of EUT

- 8.4.1. Setup the EUT and simulator as shown as Section 8.1.
- 8.4.2. Turn on the power of all equipment.
- 8.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2480MHz TX frequency to transmit.



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### 8.5.Test Procedure

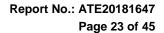
#### Conducted Band Edge:

- 8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 8.5.2.Set RBW of spectrum analyzer to 100 kHz and VBW to 300 kHz.
- Radiate Band Edge: 8.5.3.
- 8.5.4. The EUT is placed on a turntable, which is 0.1m above the ground plane and worked at highest radiated power.
- 8.5.5. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 8.5.6.EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 8.5.7.Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
- 8.5.8.RBW=1MHz, VBW=1MHz
- 8.5.9. The band edges was measured and recorded.

### 8.6.Test Result

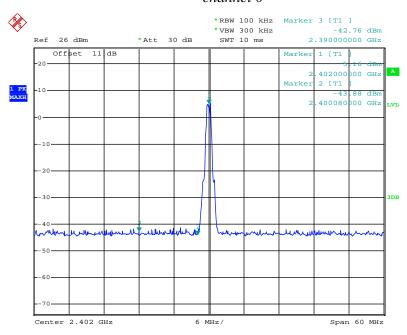
#### **Pass**

Channel	Frequency	Delta peak to band emission	Limit(dBc)
0	2.4GHz	49.04	20
39	2.4835GHz	50.95	20



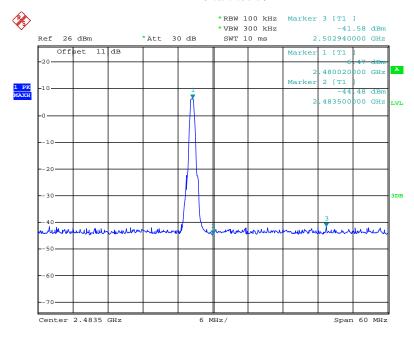


channel 0



Date: 11.UÓ\$.2018 15:29:30

#### channel 39



Date: 11.UÓ\$.2018 15:28:08



## **Radiated Band Edge Result**

Report No.: ATE20181647 Page 24 of 45

Site: 2# Chamber



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Tel:+86-0755-26503290
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Job No.: CLN65 XHUA #62

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: e-Screen ETX slot-in Android box

Mode: TX 2402MHz

Model: RK3399

Manufacturer: Legamaster International B.V.

Note: Report No.: ATE20181647

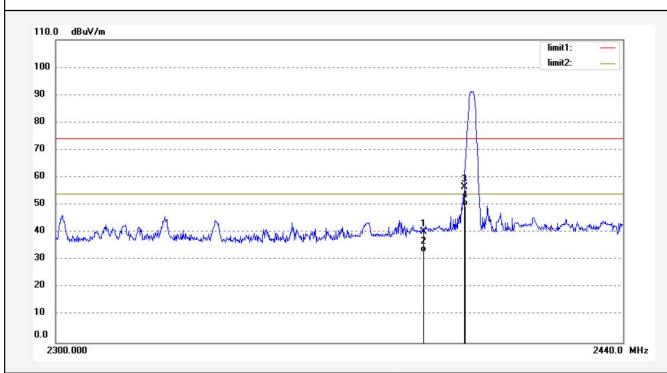
Polarization: Horizontal

Power Source: DC 12V

Date: 18/09/25/ Time: 14/21/48

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	39.44	0.79	40.23	74.00	-33.77	peak	150	318	
2	2390.000	32.14	0.79	32.93	54.00	-21.07	AVG	150	320	
3	2400.000	55.74	0.88	56.62	74.00	-17.38	peak	150	351	
4	2400.000	48.64	0.88	49.52	54.00	-4.48	AVG	150	355	



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Site: 2# Chamber

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Job No.: CLN65 XHUA #63 Polarization: Vertical

 Standard:
 FCC PK
 Power Source:
 DC 12V

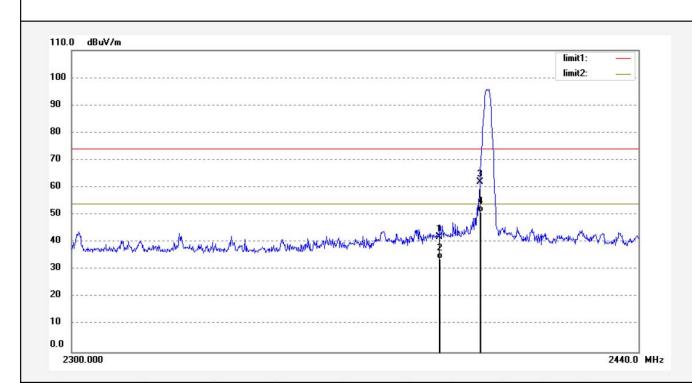
 Test item:
 Radiation Test
 Date: 18/09/25/

 Temp.( C)/Hum.(%)
 23 C / 48 %
 Time: 14/22/45

EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2402MHz Distance: 3m Model: RK3399

Manufacturer: Legamaster International B.V.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.18	0.79	41.97	74.00	-32.03	peak	150	193	
2	2390.000	33.12	0.79	33.91	54.00	-20.09	AVG	150	200	
3	2400.000	61.14	0.88	62.02	74.00	-11.98	peak	150	136	
4	2400.000	50.00	0.88	50.88	54.00	-3.12	AVG	150	140	



F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China

Distance: 3m

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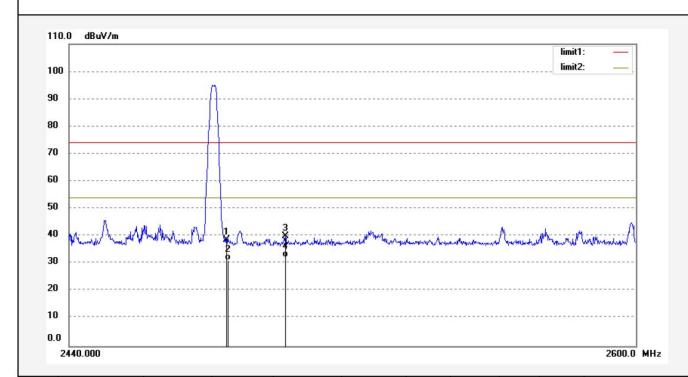
Job No.: CLN65 XHUA #61 Polarization: Horizontal Standard: FCC PK Power Source: DC 12V

Test item: Radiation Test Date: 18/09/25/
Temp.( C)/Hum.(%) 23 C / 48 % Time: 14/18/38

EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2480MHz
Model: RK3399

Manufacturer: Legamaster International B.V.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	37.50	1.10	38.60	74.00	-35.40	peak	150	126	
2	2483.500	30.12	1.10	31.22	54.00	-22.78	AVG	150	130	
3	2500.000	38.79	1.10	39.89	74.00	-34.11	peak	150	318	
4	2500.000	31.25	1.10	32.35	54.00	-21.65	AVG	150	320	



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Job No.: CLN65 XHUA #60

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: e-Screen ETX slot-in Android box

Mode: TX 2480MHz

Model: RK3399

Manufacturer: Legamaster International B.V.

Note: Report No.: ATE20181647

Polarization: Vertical
Power Source: DC 12V

Date: 18/09/25/ Time: 14/14/54

Engineer Signature: WADE

Distance: 3m

									limit1: limit2:	
100	0		٦							,
90										
80			-							
70										
60										
50										
50										
40		mound	Morion	y postavalni se se menene	سند المراسسية	en e	رياست. <b>معدد ا</b> لمعدد و	Annamen	Maurine	Marinian
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40 30 20 10 0.0	Manufe Survey M	Milaran	& Morrows	in the state of th	signician A. Armi			Kuma	or Marine can A	2600.0 MH

#### Note:

1

2

3

4

1. Emissions attenuated more than 20 dB below the permissible value are not reported.

36.33

42.41

33.50

38.90

2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

74.00

74.00

74.00

74.00

-37.67

-31.59

-40.50

-35.10

150

150

150

150

peak

peak

peak

peak

123

130

146

135

Result = Reading + Corrected Factor

-3.30

2.78

-6.20

-0.80

39.63

39.63

39.70

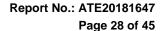
39.70

2483.500

2483.500

2500.000

2500.000

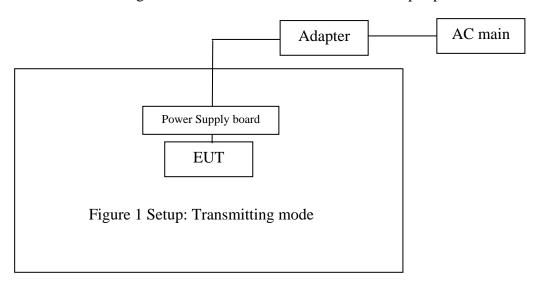




9. RADIATED SPURIOUS EMISSION TEST

## 9.1.Block Diagram of Test Setup

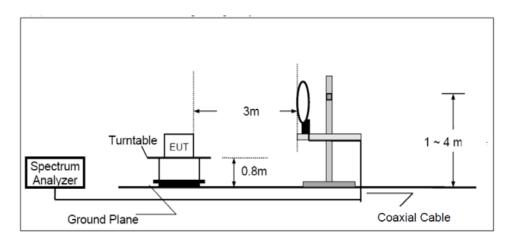
9.1.1. Block diagram of connection between the EUT and peripherals



(EUT: e-Screen ETX slot-in Android box)

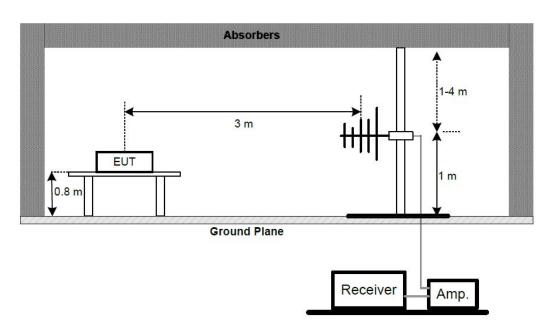
9.1.2.Semi-Anechoic Chamber Test Setup Diagram

(A) Radiated Emission Test Set-Up, Frequency below 30MHz

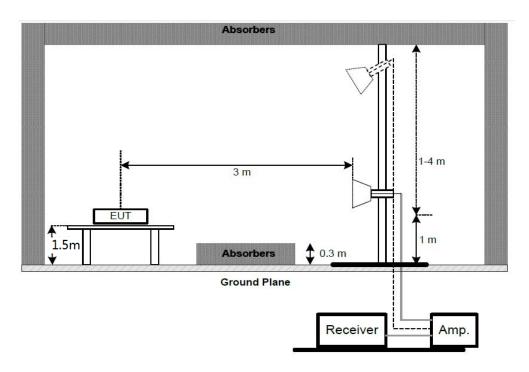




(B) Radiated Emission Test Set-Up, Frequency below 1GHz



### Above 1GHz:





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## 9.2. The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 9.3. Restricted bands of operation

#### 9.3.1.FCC Part 15.205 Restricted bands of operation

(a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

perii	nitted in any of the freque	ncy bands fisted below.	
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	$\binom{2}{}$
13.36-13.41			

<sup>&</sup>lt;sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

(b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

<sup>&</sup>lt;sup>2</sup>Above 38.6



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9.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

## 9.5. Operating Condition of EUT

- 9.5.1. Setup the EUT and simulator as shown as Section 9.1.
- 9.5.2. Turn on the power of all equipment.
- 9.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

#### 9.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground(Below 1GHz). The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 25GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain



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## 9.7.Data Sample

Frequency	Reading	Factor	Result	Limit	Margin	Remark
(MHz)	(dBµv)	(dB/m)	(dBµv/m)	(dBµv/m)	(dB)	
X.XX	28.66	-15.19	13.47	40.0	-26.53	QP

Frequency(MHz) = Emission frequency in MHz

Reading( $dB\mu\nu$ ) = Uncorrected Analyzer/Receiver reading

Factor (dB/m) = Antenna factor + Cable Loss - Amplifier gain

Result( $dB\mu\nu/m$ ) = Reading( $dB\mu\nu$ ) + Factor(dB/m)

Limit  $(dB\mu v/m) = Limit$  stated in standard

Margin (dB) = Result(dB $\mu$ v/m) - Limit (dB $\mu$ v/m)

QP = Quasi-peak Reading

#### Calculation Formula:

 $Margin(dB) = Result (dB\mu V/m) - Limit(dB\mu V/m)$ 

Result( $dB\mu V/m$ )= Reading( $dB\mu V$ )+ Factor(dB/m)

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

# 9.8. The Field Strength of Radiation Emission Measurement Results PASS.

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

- 2. \*: Denotes restricted band of operation.
- 3. The radiation emissions from 9kHz-30MHz and 18-25GHz are not reported, because the test values lower than the limits of 20dB.



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Below 1GHz



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Job No.: CLN65 XHUA #1
Standard: FCC Class B 3M Radiated

Test item: Radiation Test

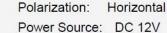
Temp.( C)/Hum.(%) 23 C / 48 %

EUT: e-Screen ETX slot-in Android box

Mode: TX 2402MHz Model: RK3399

Manufacturer: Legamaster International B.V.

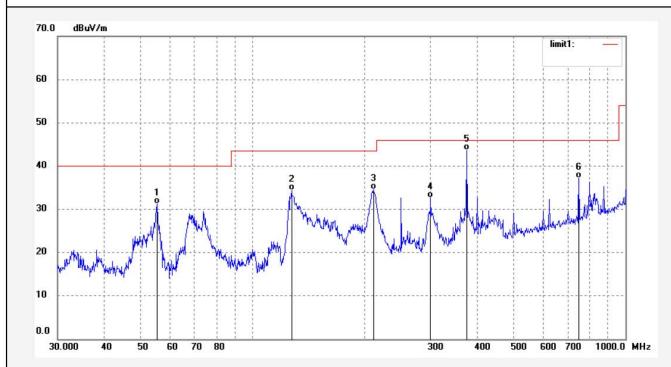
Note: Report NO.:ATE20181647



Date: 18/09/25/ Time: 11/05/22

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.4147	44.19	-13.03	31.16	40.00	-8.84	QP	150	192	
2	127.2176	48.09	-13.69	34.40	43.50	-9.10	QP	150	218	
3	210.7860	46.42	-11.94	34.48	43.50	-9.02	QP	150	301	
4	300.3672	41.64	-9.01	32.63	46.00	-13.37	QP	150	319	
5	375.9384	50.73	-7.06	43.67	46.00	-2.33	QP	150	310	
6	750.1082	37.50	-0.29	37.21	46.00	-8.79	QP	150	238	



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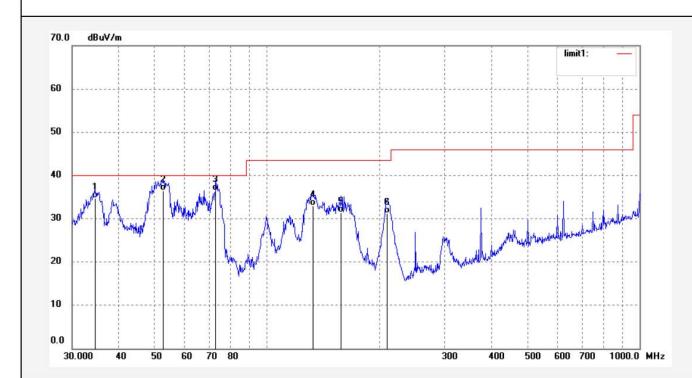
Job No.: CLN65 XHUA #2 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 12V

Test item: Radiation Test Date: 18/09/25/
Temp.( C)/Hum.(%) 23 C / 48 % Time: 11/06/21

EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2402MHz Distance: 3m Model: RK3399

Manufacturer: Legamaster International B.V.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.6385	45.10	-10.32	34.78	40.00	-5.22	QP	100	317	
2	52.7599	49.20	-12.79	36.41	40.00	-3.59	QP	100	319	
3	72.8465	52.88	-16.44	36.44	40.00	-3.56	QP	100	128	
4	133.1511	46.87	-13.89	32.98	43.50	-10.52	QP	100	129	
5	158.1123	46.00	-14.62	31.38	43.50	-12.12	QP	100	318	
6	210.0482	43.30	-11.99	31.31	43.50	-12.19	QP	100	128	



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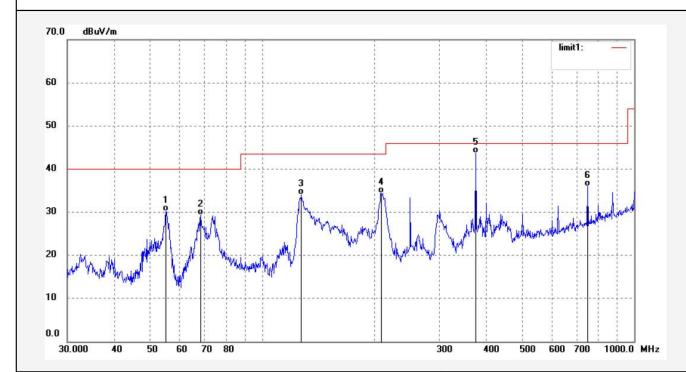
Job No.: CLN65 XHUA #4 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 12V

Test item: Radiation Test Date: 18/09/25/
Temp.( C)/Hum.(%) 23 C / 48 % Time: 11/08/36

EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2440MHz Distance: 3m Model: RK3399

Manufacturer: Legamaster International B.V.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.2207	43.13	-12.99	30.14	40.00	-9.86	QP	150	91	
2	68.3907	45.24	-15.95	29.29	40.00	-10.71	QP	150	325	
3	127.6645	47.68	-13.70	33.98	43.50	-9.52	QP	150	38	
4	209.3129	46.43	-12.02	34.41	43.50	-9.09	QP	150	216	
5	375.9384	50.78	-7.06	43.72	46.00	-2.28	QP	150	190	
6	750.1082	36.31	-0.29	36.02	46.00	-9.98	QP	150	281	





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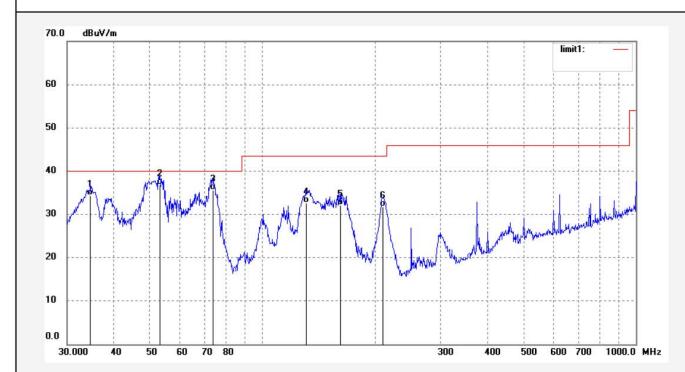
Job No.: CLN65 XHUA #3 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 12V

Test item: Radiation Test Date: 18/09/25/
Temp.( C)/Hum.(%) 23 C / 48 % Time: 11/07/32

EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2440MHz Distance: 3m Model: RK3399

Manufacturer: Legamaster International B.V.



No.         Freq. (MHz)         Reading (dBuV/m)         Factor (dB)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Detector (cm)         Height (cm)         Degree (deg.)         Remark           1         34.6385         44.63         -10.32         34.31         40.00         -5.69         QP         150         181           2         53.1313         49.70         -12.81         36.89         40.00         -3.11         QP         150         112           3         73.6170         52.10         -16.54         35.56         40.00         -4.44         QP         150         317           4         130.8369         46.50         -13.80         32.70         43.50         -10.80         QP         150         91           5         162.0414         46.55         -14.38         32.17         43.50         -11.33         QP         150         117           6         210.0482         43.75         -11.99         31.76         43.50         -11.74         QP         150         318											
2     53.1313     49.70     -12.81     36.89     40.00     -3.11     QP     150     112       3     73.6170     52.10     -16.54     35.56     40.00     -4.44     QP     150     317       4     130.8369     46.50     -13.80     32.70     43.50     -10.80     QP     150     91       5     162.0414     46.55     -14.38     32.17     43.50     -11.33     QP     150     117	No.		_		10.000.000.000.000.000			Detector		100	Remark
3 73.6170 52.10 -16.54 35.56 40.00 -4.44 QP 150 317 4 130.8369 46.50 -13.80 32.70 43.50 -10.80 QP 150 91 5 162.0414 46.55 -14.38 32.17 43.50 -11.33 QP 150 117	1	34.6385	44.63	-10.32	34.31	40.00	-5.69	QP	150	181	
4 130.8369 46.50 -13.80 32.70 43.50 -10.80 QP 150 91 5 162.0414 46.55 -14.38 32.17 43.50 -11.33 QP 150 117	2	53.1313	49.70	-12.81	36.89	40.00	-3.11	QP	150	112	
5 162.0414 46.55 -14.38 32.17 43.50 -11.33 QP 150 117	3	73.6170	52.10	-16.54	35.56	40.00	-4.44	QP	150	317	
	4	130.8369	46.50	-13.80	32.70	43.50	-10.80	QP	150	91	
6 210.0482 43.75 -11.99 31.76 43.50 -11.74 QP 150 318	5	162.0414	46.55	-14.38	32.17	43.50	-11.33	QP	150	117	
	6	210.0482	43.75	-11.99	31.76	43.50	-11.74	QP	150	318	





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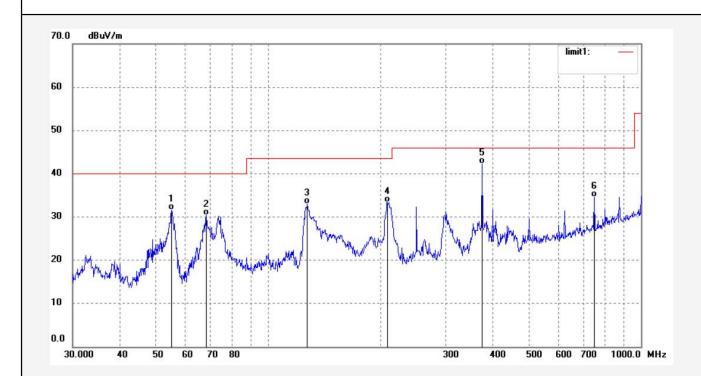
Job No.: CLN65 XHUA #5 Polarization: Horizontal Standard: FCC Class B 3M Radiated Power Source: DC 12V

Test item: Radiation Test Date: 18/06/25/
Temp.( C)/Hum.(%) 23 C / 48 % Time: 11/08/36

EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2480MHz Distance: 3m Model: RK3399

Manufacturer: Legamaster International B.V.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.2207	44.63	-12.99	31.64	40.00	-8.36	QP	150	321	
2	68.3906	46.24	-15.95	30.29	40.00	-9.71	QP	150	317	
3	127.6645	46.68	-13.70	32.98	43.50	-10.52	QP	150	13	
4	209.3129	45.43	-12.02	33.41	43.50	-10.09	QP	150	128	
5	375.9384	49.28	- <mark>7.06</mark>	42.22	46.00	-3.78	QP	150	185	
6	750.1082	34.81	-0.29	34.52	46.00	-11.48	QP	150	189	





EUT:

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Job No.: CLN65 XHUA #6 Polarization: Vertical Standard: FCC Class B 3M Radiated Power Source: DC 12V

Date: 18/09/25/ Time: 11/10/00

Engineer Signature: WADE

Distance: 3m

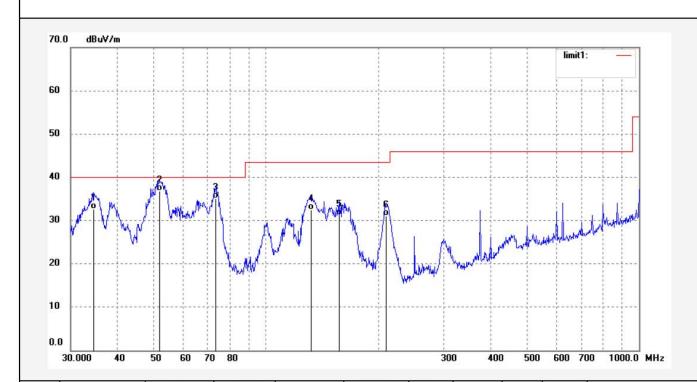
Test item: Radiation Test
Temp.( C)/Hum.(%) 23 C / 48 %

e-Screen ETX slot-in Android box

Mode: TX 2480MHz

Model: RK3399

Manufacturer: Legamaster International B.V.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.6385	43.10	-10.39	32.71	40.00	-7.29	QP	150	328	
2	52.0251	49.50	-12.73	36.77	40.00	-3.23	QP	150	176	
3	73.3593	51.64	-16.51	35.13	40.00	-4.87	QP	150	187	
4	132.2204	46.25	-13.84	32.41	43.50	-11.09	QP	150	192	
5	157.0072	46.00	-14.75	31.25	43.50	-12.25	QP	150	298	
6	210.0482	43.00	-11.99	31.01	43.50	-12.49	QP	150	312	



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#### Above 1GHz



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Polarization: Horizontal
Power Source: DC 12V

Date: 18/09/25/ Time: 14/05/35

Engineer Signature: WADE

Distance: 3m

Job No.: CLN65 XHUA #54

Standard: FCC PK

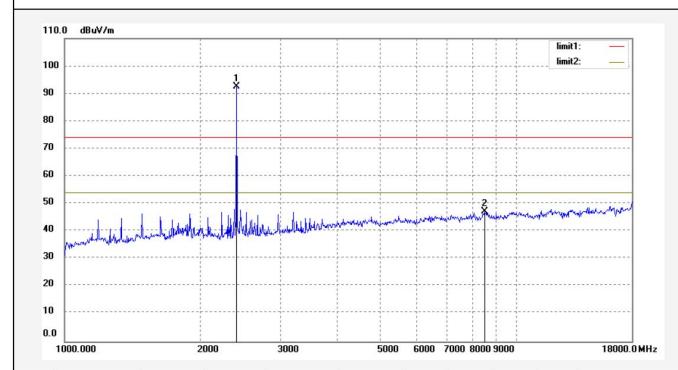
Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: e-Screen ETX slot-in Android box

Mode: TX 2402MHz Model: RK3399

Manufacturer: Legamaster International B.V.



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)		Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark	
1	2402.153	53.19	39.28	92.47			peak	150	19		
2	8514.456	-2.26	49.40	47.14	74.00	-26.86	peak	200	186		



Site: 2# Chamber Tel:+86-0755-26503290

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F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: CLN65 XHUA #55 Polarization: Vertical Standard: FCC PK Power Source: DC 12V

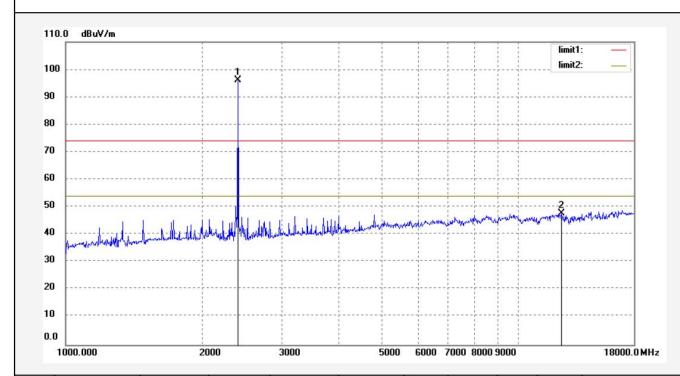
Test item: Radiation Test Date: 18/09/25/
Temp.( C)/Hum.(%) 23 C / 48 % Time: 14/06/36

EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2402MHz Distance: 3m

Model: RK3399

Manufacturer: Legamaster International B.V.



١	۱о.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1		2402.153	56.80	39.28	96.08			peak	150	139	
2		12469.611	-7.27	54.88	47.61	74.00	-26.39	peak	200	198	



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Job No.: CLN65 XHUA #57 Polarization: Horizontal Standard: FCC PK Power Source: DC 12V

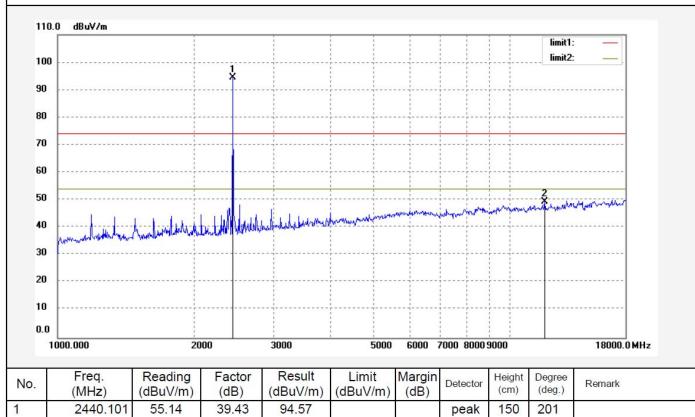
Test item: Radiation Test Date: 18/09/25/ Temp.( C)/Hum.(%) 23 C / 48 % Time: 14/09/10

EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2440MHz Distance: 3m Model: RK3399

Manufacturer: Legamaster International B.V.

Report No.: ATE20181647 Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.101	55.14	39.43	94.57			peak	150	201	
2	11940.535	-4.48	53.85	49.37	74.00	-24.63	peak	200	122	



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Job No.: CLN65 XHUA #56

Standard: FCC PK

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: e-Screen ETX slot-in Android box

Mode: TX 2440MHz

Model: RK3399

Manufacturer: Legamaster International B.V.

Note: Report No.: ATE20181647

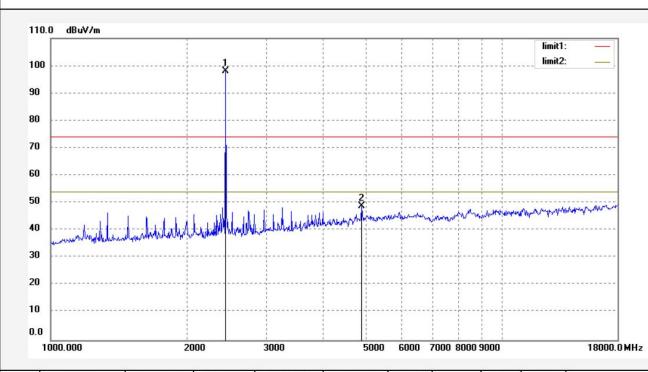
Polarization: Vertical

Power Source: DC 12V Date: 18/09/25/

Time: 14/08/08

Engineer Signature: WADE

Distance: 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.101	58.66	39.43	98.09			peak	150	19	
2	4880.151	4.21	44.73	48.94	74.00	-25.06	peak	150	312	



Model:

ACCURATE TECHNOLOGY CO., LTD.

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Job No.: CLN65 XHUA #58 Polarization: Horizontal Standard: FCC PK Power Source: DC 12V

Test item: Radiation Test Date: 18/09/25/ Temp.( C)/Hum.(%) 23 C / 48 % Time: 14/11/09

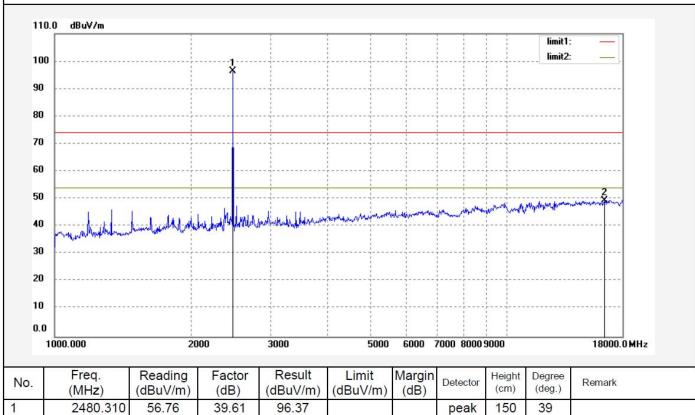
EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2480MHz Distance: 3m

Manufacturer: Legamaster International B.V.

Report No.: ATE20181647 Note:

RK3399



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.310	56.76	39.61	96.37			peak	150	39	
2	16409.819	-9.85	59.18	49.33	74.00	-24.67	peak	200	123	



Site: 2# Chamber

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Job No.: CLN65 XHUA #59 Polarization: Vertical Standard: FCC PK Power Source: DC 12V

Test item: Radiation Test Date: 18/09/25/ Temp.( C)/Hum.(%) 23 C / 48 % Time: 14/12/43

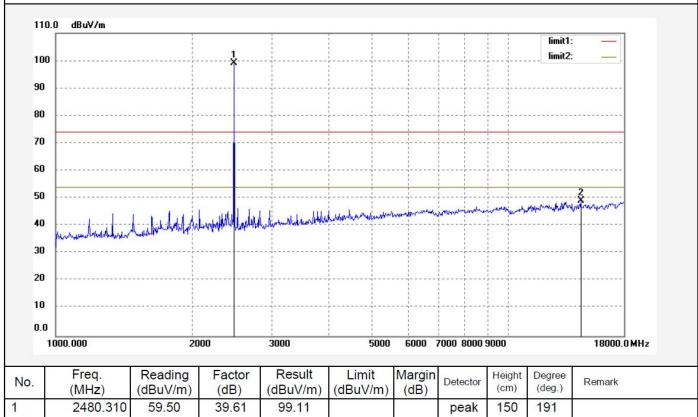
EUT: e-Screen ETX slot-in Android box Engineer Signature: WADE

Mode: TX 2480MHz Distance: 3m

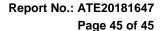
Model: RK3399

Manufacturer: Legamaster International B.V.

Note: Report No.: ATE20181647



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.310	59.50	39.61	99.11			peak	150	191	
2	14450.131	-11.16	60.27	49.11	74.00	-24.89	peak	200	310	





10.ANTENNA REQUIREMENT

## 10.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 10.2. Antenna Construction

The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b); The Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement.

