

Report No: CCISE200901105

FCC REPORT

Applicant:	JiangXi Lesia Technology Co., Limited			
Address of Applicant:	Yangjiahu District(South Of Xiangxing Avenue), Industrial Park, Gao'An City, Jlangxi Province, China			
Equipment Under Test (E	EUT)			
Product Name:	SMARTPHONE			
Model No.:	K6, KC6012			
Trade mark:	LESIA			
FCC ID:	2ATFDLESIAK6			
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B			
Date of sample receipt:	04 Sep., 2020			
Date of Test:	05 Sep., to 29 Oct., 2020			
Date of report issued:	30 Oct., 2020			
Test Result:	PASS*			

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description				
00	30 Oct., 2020	Original				

Tested by:

YT Yang Test Engineer

Date: 30 Oct., 2020

30 Oct., 2020

Date:

Winner Mang

Reviewed by:

Project Engineer

Project No.: CCISE2009011

<u>CCIS</u>

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4 Test Summary

Test Item	Section in CFR 47	Result			
Conducted Emission	Part 15.107	Pass			
Radiated Emission	Part 15.109	Pass			
Remark:					
1. Pass: The EUT complies with the esse	1. Pass: The EUT complies with the essential requirements in the standard.				
2. N/A: The EUT not applicable of the test item.					
Test Method: ANSI C63.4:2014					



5 General Information

5.1 Client Information

Applicant:	JiangXi Lesia Technology Co., Limited
Address:	Yangjiahu District(South Of Xiangxing Avenue), Industrial Park,Gao'An City,Jlangxi Province,China
Manufacturer/ Factory:	JiangXi Lesia Technology Co., Limited
Address:	Yangjiahu District(South Of Xiangxing Avenue), Industrial Park,Gao'An City,Jlangxi Province,China

5.2 General Description of E.U.T.

Product Name:	SMARTPHONE
Model No .:	K6, KC6012
Power supply:	Rechargeable Li-ion Battery DC3.8V-3000mAh
AC adapter:	Model: SMART SERIES Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1000mA
Remark:	Model No.: K6, KC6012 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode and test samples plans

Operating mode	Detail description			
PC mode	Keep the EUT in Downloading mode(Worst case)			
Charging+Recording mode	Keep the EUT in Charging+Recording mode			
Charging+Playing mode	Keep the EUT in Charging+Playing mode			
FM mode	Keep the EUT in FM receiver mode			
GPS mode	Keep the EUT in GPS receiver mode			

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.5 Description of Support Units

Manufacturer	Description	Model Serial Numb		FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
DELL	MONITOR	SE2018HR 3M7QPY2		DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s)/Grant(s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	То
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>

5.10 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: <u>http://www.ccis-cb.com</u>



5.11 Test Instruments list

Radiated Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021		
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021		
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021		
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021		
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020		
EMI Test Software	AUDIX	E3	Version: 6.110919b		b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021		
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021		
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021		
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020		
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021		
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021		
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021		

Conducted Emission:							
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021		
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021		
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021		
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021		
Cable	HP	10503A	N/A	03-05-2020	03-04-2021		
EMI Test Software	AUDIX	E3	Version: 6.110919b				



6 Test results and Measurement Data

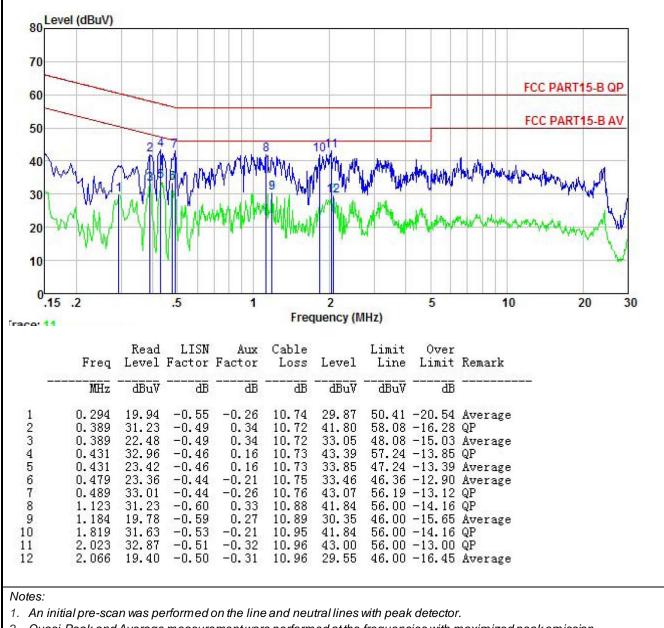
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107							
Test Frequency Range:	150kHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz							
Limit:	Limit (dBu)/)							
Linnt.	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	0.5-30	60	50					
	* Decreases with the logarithm	of the frequency.						
Test setup:	Reference Plane							
Trad procedure	Test table/Insulation plane Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver						
Test procedure	 The E.U.T and simulators are impedance stabilization netwo coupling impedance for the n The peripheral devices are a LISN that provides a 500hm/s termination. (Please refers to photographs). Both sides of A.C. line are interference. In order to find positions of equipment and according to ANSI C63.4(late) 	ork(L.I.S.N.). The provi neasuring equipment. Iso connected to the m 50uH coupling impedat the block diagram of t checked for maximum d the maximum emissi I all of the interface cal	ide a 50ohm/50uH nain power through a nce with 50ohm the test setup and conducted ion, the relative oles must be changed					
Test Instruments:	Refer to section 5.11 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Pass							



Measurement data:

Product name:	SMARTPHONE	Product model:	K6
Test by:	YT	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp:22.5℃ Huni:55%

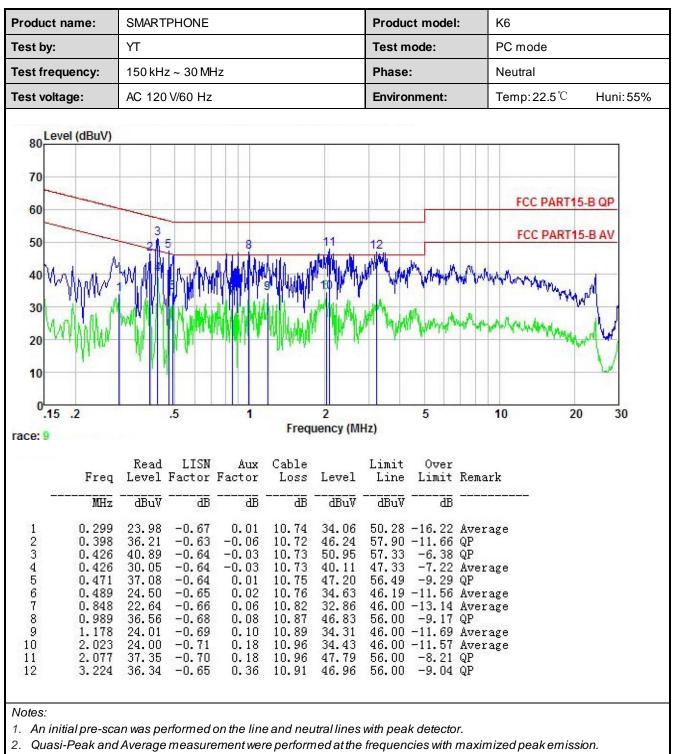


2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3. Final Level = Receiver Read level + LISN Factor + Cable Loss.







3. Final Level = Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109								
Test Frequency Range:	30MHz to 6000MHz								
Test site:	Measurement Dis	tance: 3m (Sem	i-Anechoic (Chamber)				
Receiver setup:	Frequency	Detecto				Remark			
	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value			
		Peak	t 1MHz		3MHz	Peak Value			
	Above 1GHz	RMS		1MHz	3MHz	Average Value			
Limit:	Frequenc		Lin	nit (dBuV/m	@3m)	Remark			
	30MHz-88M			40.0		Quasi-peak Value			
	88MHz-216N		43.5			Quasi-peak Value			
	216MHz-960			46.0		Quasi-peak Value			
	960MHz-1G	iHz		54.0		Quasi-peak Value			
	Above 1G	-Iz		54.0		Average Value			
Test setup:				74.0		Peak Value			
	Below 1GHz								
		EUT		Horn Antenna Horn Antenna ence Plane	Antenna Tower				
Test Procedure:	ground at a 3 m degrees to dete	neter semi-a ermine the p set 3 meters inted on the	anecl bositi awa top	noic camber on of the hig ay from the in of a variable	. The table phest radiat nterference -height ant	-receiving antenna, tenna tower.			
	ground to deter horizontal and measurement.					trength. Both set to make the			

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



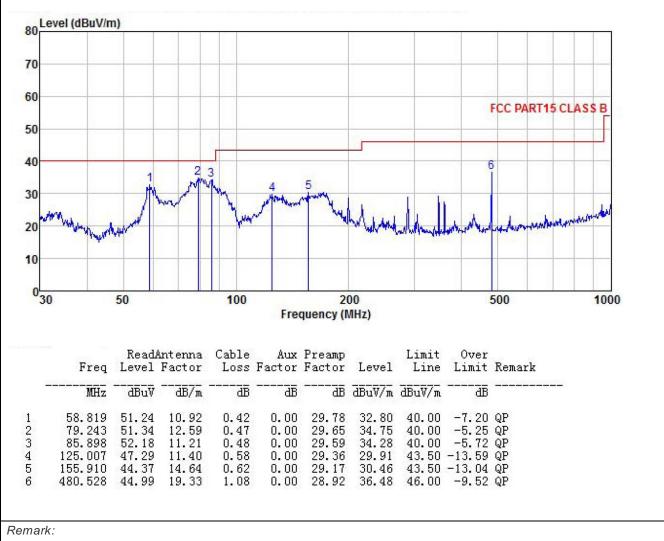
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded

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Measurement Data:

Below 1GHz:

Product Name:	SMARTPHONE	Product Model:	K6	
Test By:	YT	Test mode:	PC mode	
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical	
Test Voltage:	AC 120/60Hz	Environment:	Temp:24℃	Huni: 57%



1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

3. The Aux Factor is a notch filter switch box loss, this item is not used.



me:	SMAR	TPHONE	-			Pro	oduct Mo	K6			
	YT 30 MHz ~ 1 GHz						st mode:	PC mode Horizontal			
ency:							larization				
Test Voltage: AC 120/				120/60Hz					Temp:24 [°] C Huni:5		
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al marked and and	50		100	Freq	200 uency (Mi			500)		1000
	50 ReadA	ntenna Factor	Cable	Aux	uency (Mi Preamp	Hz)	Limit Line	Over			1000
	50 ReadA Level		Cable	Aux Factor	uency (Mi Preamp Factor	Hz) Level	Limit Line dBuV/m	Over Limit	Remark		1000
	e:	YT ency: 30 M⊦	YT ancy: 30 MHz ~ 1 GH e: AC 120/60Hz	YT ency: 30 MHz ~ 1 GHz e: AC 120/60Hz	YT ancy: 30 MHz ~ 1 GHz e: AC 120/60Hz	YT ancy: 30 MHz ~ 1 GHz e: AC 120/60Hz I (dBuV/m)	YT Tex ency: 30 MHz ~ 1 GHz Po e: AC 120/60Hz En	YT Test mode: ency: 30 MHz ~ 1 GHz Polarization e: AC 120/60Hz Environmen I (dBuV/m) Image: Comparison of the second of the secon	YT Test mode: ency: 30 MHz ~ 1 GHz Polarization: e: AC 120/60Hz Environment:	YT Test mode: PC mo ency: 30 MHz ~ 1 GHz Polarization: Horizon e: AC 120/60Hz Environment: Temp: I (dBuV/m) I (dBuV/m) I (dBuV/m) I (dBuV/m)	YT Test mode: PC mode ency: 30 MHz ~ 1 GHz Polarization: Horizontal e: AC 120/60Hz Environment: Temp: 24°C I (dBuV/m) FCC PART15 CLAS

3. The Aux Factor is a notch filter switch box loss, this item is not used.





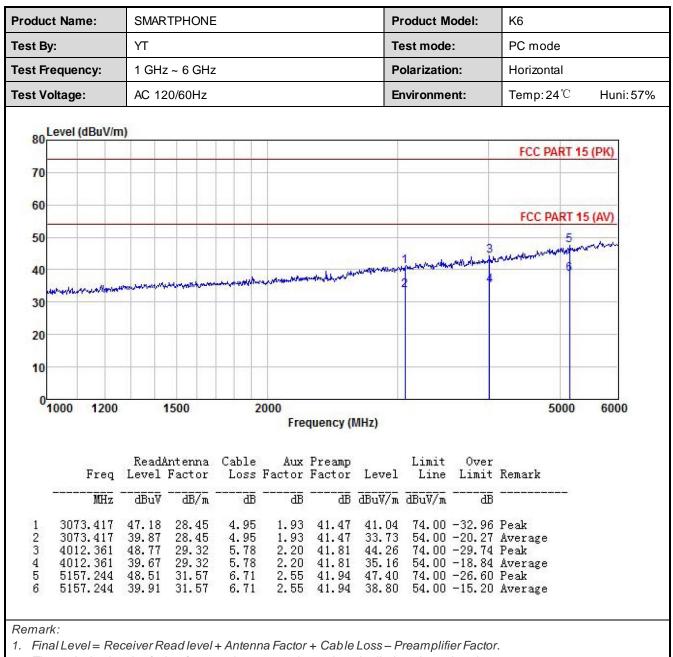
roduc	t Name:	:	SMARTPHONE						oduct M	K6								
est By	/:		ΥT					Те	st mode	PC mode								
est Fr	equency	/:	1 GH	z ~ 6 GH	z			Po	olarizatio	n:	Vertical				Vertical			
est Vo	oltage:		AC 1	20/60Hz				En	vironme	nt:	Temp:24℃ Huni:		Huni: 57%					
	Level (dE	BuV/m	n)															
80	cororitat		.,								FCC F	PART 1	15 (PK)					
70																		
60		_																
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20										_								
10																		
0	1000	1200		1500		2000 Fre	equency (MHz)				5000	6000					
	F	req		Antenna Factor			Preamp Factor	Level	Limit Line		Remark							
	<u>-</u>	WHz -	dBu∛	<u></u>	ā	<u>a</u> B	<u>a</u> B	dBuV/m	dBuV/m	<u>a</u> B								
1 2 3	2979.2 2979.2 3640.3	202	47.97 38.78 49.40	28.37 28.37 28.88	4.87 4.87 5.44	1.89	41.52	41.58 32.39 44.33	54.00	-32.42 -21.61 -29.67	Average							

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

2. The emission levels of other frequencies are very lower than the limit and not show in test report.





2. The emission levels of other frequencies are very lower than the limit and not show in test report.