

Report No: CCISE181211906

# **FCC REPORT**

Applicant:	PCD, LLC
Address of Applicant:	1500 Tradeport Drive, Suit A   Orlando, FL32824
Equipment Under Test (E	EUT)
Product Name:	Smart Phone
Model No.:	PL620
FCC ID:	2ALJJPL620
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	25 Dec., 2018
Date of Test:	26 Dec.,2018 to 16 Jan., 2019
Date of report issued:	18 Jan., 2019
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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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## 2 Version

Version No.	Date	Description
00	18 Jan., 2019	Original

Tested by:

ang Test Enginder

Date:

Date:

18 Jan., 2019

18 Jan., 2019

Reviewed by:

Dimer hand

**Project Engineer** 

# <u>CCIS</u>

#### Report No: CCISE181211906

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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: Pass: The EUT complies with the essential requirements in the standard. N/A: The EUT not applicable of the test item.				



# **5** General Information

## **5.1 Client Information**

Applicant:	PCD, LLC
Address of Applicant:	1500 Tradeport Drive, Suit A   Orlando, FL32824
Manufacturer/ Factory:	SHENZHEN HUAYUESHITONG SOFTWARE TECHNOLOGY CO., LIMITED
Address:	Room 1110, Oriental Science and Technology Building, Keyuan Road 16, Nanshan District, Shenzhen

## 5.2 General Description of E.U.T.

Product Name:	Smart Phone
Model No.:	PL620
Power supply:	Rechargeable Li-ion Battery DC3.8V-3000mAh
AC adapter :	Model: PL620 Input: AC100-240V, 50/60Hz, 0.25A Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

#### 5.3 Test Mode

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 second s				

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)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)



## 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	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	1.00m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.15m	EUT	Headset

## 5.8 Laboratory Facility

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

#### FCC - Registration No.: 727551

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

#### IC - Registration No.: 10106A-1

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.

#### CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

#### 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: <a href="https://portal.a2la.org/scopepdf/4346-01.pdf">https://portal.a2la.org/scopepdf/4346-01.pdf</a>

#### 5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com



# 5.10 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	07-22-2017	07-21-2020	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019	
EMI Test Software	AUDIX	E3	Version: 6.110919b		b	
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019	
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019	
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019	

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	03-07-2018	03-06-2019	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019	
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-07-2018	03-06-2019	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



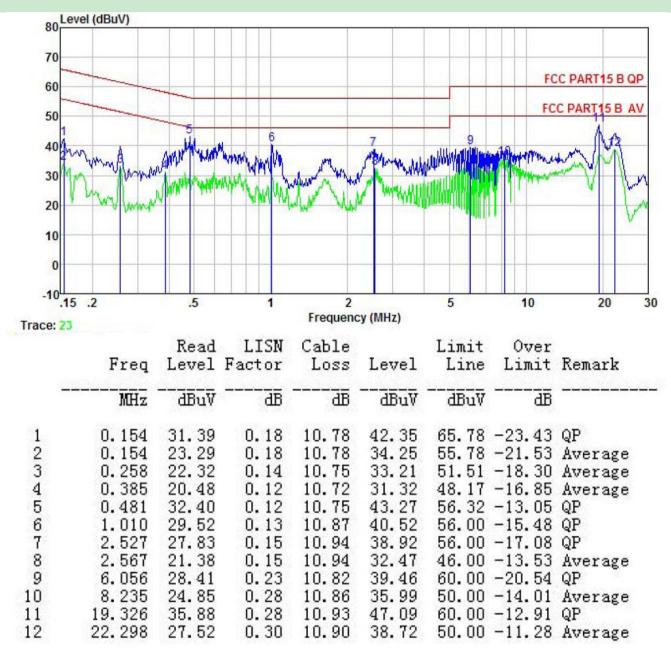
# 6 Test results and Measurement Data

## 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	)7	
Test Method:	ANSI C63.4:2014		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit	(dBµV)
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
Testestur	* Decreases with the logarith		
Test setup:	Reference Plar		_
	LISN       40cm       80cr         AUX       Equipment       E.U.T         Fequipment       E.U.T         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	<ol> <li>The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp</li> <li>The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs).</li> <li>Both sides of A.C. line are interference. In order to fir positions of equipment and according to ANSI C63.4:</li> </ol>	on network(L.I.S.N.). The bedance for the measure also connected to the ohm/50uH coupling imp s to the block diagram of the checked for maximum and the maximum emiss d all of the interface ca	ne provide a ring equipment. a main power through bedance with 500hm of the test setup and n conducted ion, the relative bles must be changed
Test environment:	Temp.: 22.5 °C Hum	nid.: 55% Pro	ess.: 101kPa
Test Instruments:	Refer to section 5.9 for detail	ls	
Test mode:	Refer to section 5.3 for detail	ls	
Test results:	Pass		
	1		

#### Measurement data:

Product name:	Smart Phone	Product model:	PL620
Test by:	Caffrey	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%



Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

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.





Product name	e: S	Smart Phone			Product m	odel:	PL620	
Test by:	C	Caffrey			Test mode	: F	PC mode	
Test frequence	<b>:y:</b> 1	50 kHz ~ 30	) MHz		Phase:	1	Neutral	
Test voltage:	A	C 120 V/60	Hz		Environme	ent:	۲emp: 22.5°	C Huni: 55%
80 Level	(dBuV)							
80	(ubuv)							
70								
60								FCC PART15 B QP
								CC PART15 B AV
50								CC PARTIS D AV
40		4			7		9	all the
PM M	A.M	, with wet	wither the	A	markery		and the second	AN MAN
30	Mr mark	What was and		AM Tus	1 mile m	LA MANY MARTIN	ateria da anterio da a	
20	WW June	A Manakalan	m Walter A		- Manhard	MANHAN ANA A		
				WY W	N			
10								
0								
0								
-10 -15 .	2	.5	1	2		5	10	20
-10.15 .	2	.5	1	China	icy (MHz)	5	10	20
10	2			Frequen		- 217 00 10 10 10 10 10 10		20
-10 <mark>.15</mark> .	2 Freq	.5 Read Level	LISN	China		5 Limit Line	Over	20 Remark
-10 <mark>.15</mark> .	Freq	Read Level	LISN Factor	Frequen Cable Loss	lcy (MHz) Level	Limit Line	Over Limit	
-10 <mark>.15</mark> .		Read	LISN	Frequen Cable	icy (MHz)	Limit	Over Limit	
-10.15 .	Freq MHz	Read Level i dBuV	LISN Factor dB	Frequen Cable Loss dB	Level dBuV	Limit Line dBuV	Over Limit dB	Remark
-10 <mark>.15</mark> . Trace: 21	Freq	Read Level	LISN Factor	Frequen Cable Loss	lcy (MHz) Level	Limit Line dBuV 65.78	Over Limit  dB -25.47	Remark
-10.15 .	Freq MHz 0.154	Read Level dBuV 28.55	LISN Factor dB 0.98	Frequen Cable Loss dB 10.78	Level dBuV 40.31	Limit Line dBuV 65.78 55.78 51.64	Over Limit  dB -25.47 -22.86 -18.21	Remark  QP Average Average
-10 <mark>.15 .</mark> Trace: 21	Freq MHz 0.154 0.154 0.253 0.481	Read Level dBuV 28.55 21.16 21.73 27.48	LISN Factor dB 0.98 0.98 0.95 0.95	Frequen Cable Loss dB 10.78 10.78 10.75 10.75	Level dBuV 40.31 32.92 33.43 39.20	Limit Line dBuV 65.78 55.78 51.64 56.32	Over Limit  dB -25.47 -22.86 -18.21 -17.12	Remark  QP Average Average QP
-10 <mark>.15 .</mark> Trace: 21	Freq MHz 0.154 0.154 0.253 0.481 0.608	Read Level dBuV 28.55 21.16 21.73 27.48 18.08	LISN Factor dB 0.98 0.98 0.95 0.97 0.97	Frequen Cable Loss dB 10.78 10.78 10.75 10.75 10.77	Level dBuV 40.31 32.92 33.43 39.20 29.82	Limit Line dBuV 65.78 55.78 51.64 56.32 46.00	Over Limit  dB -25.47 -22.86 -18.21 -17.12 -16.18	Remark QP Average Average QP Average
-10.15 . Trace: 21	Freq MHz 0.154 0.253 0.481 0.608 1.016	Read Level dBuV 28.55 21.16 21.73 27.48 18.08 24.34	LISN Factor dB 0.98 0.98 0.95 0.95 0.97 0.97 0.97	Frequen Cable Loss dB 10.78 10.78 10.75 10.75 10.77 10.87	Level dBuV 40.31 32.92 33.43 39.20 29.82 36.18	Limit Line dBuV 65.78 55.78 51.64 56.32 46.00 56.00	Over Limit 	Remark QP Average Average QP Average QP
-10 <mark>.15 .</mark> Trace: 21	Freq MHz 0.154 0.253 0.481 0.608 1.016 2.474	Read Level dBuV 28.55 21.16 21.73 27.48 18.08 24.34 25.03	LISN Factor dB 0.98 0.98 0.95 0.97 0.97 0.97 0.97 0.99	Frequen Cable Loss dB 10.78 10.78 10.75 10.75 10.77 10.87 10.94	Level dBuV 40.31 32.92 33.43 39.20 29.82 36.18 36.96	Limit Line dBuV 65.78 55.78 51.64 56.32 46.00 56.00 56.00	Over Limit  dB -25.47 -22.86 -18.21 -17.12 -16.18 -19.82 -19.04	Remark  QP Average Average QP Average QP QP
-10 .15 . Trace: 21	Freq MHz 0.154 0.253 0.481 0.608 1.016 2.474 8.192	Read Level dBuV 28.55 21.16 21.73 27.48 18.08 24.34 25.03 18.42	LISN Factor dB 0.98 0.98 0.95 0.97 0.97 0.97 0.99 1.02	Frequent Cable Loss dB 10.78 10.78 10.75 10.75 10.77 10.87 10.94 10.86	Level dBuV 40.31 32.92 33.43 39.20 29.82 36.18 36.96 30.30	Limit Line dBuV 65.78 55.78 51.64 56.32 46.00 56.00 56.00 50.00	Over Limit 	Remark QP Average Average QP Average QP Average QP Average
-10.15 . Trace: 21	Freq MHz 0.154 0.253 0.481 0.608 1.016 2.474 8.192 8.456	Read Level dBuV 28.55 21.16 21.73 27.48 18.08 24.34 25.03 18.42 26.15	LISN Factor dB 0.98 0.98 0.95 0.97 0.97 0.97 0.97 0.99 1.02 1.02	Frequen Cable Loss dB 10.78 10.78 10.75 10.75 10.75 10.77 10.87 10.87 10.86 10.87	Level dBuV 40.31 32.92 33.43 39.20 29.82 36.18 36.96 30.30 38.04	Limit Line dBuV 65.78 55.78 51.64 56.32 46.00 56.00 56.00 50.00 60.00	Over Limit -25.47 -22.86 -18.21 -17.12 -16.18 -19.82 -19.04 -19.70 -21.96	Remark QP Average Average QP Average QP Average QP
-10.15 . Trace: 21	Freq MHz 0.154 0.253 0.481 0.608 1.016 2.474 8.192 8.456 19.326	Read Level dBuV 28.55 21.16 21.73 27.48 18.08 24.34 25.03 18.42 26.15 35.96	LISN Factor dB 0.98 0.98 0.95 0.97 0.97 0.97 0.97 1.02 1.02 0.71	Frequen Cable Loss dB 10.78 10.78 10.75 10.75 10.77 10.87 10.94 10.86 10.87 10.93	Level dBuV 40.31 32.92 33.43 39.20 29.82 36.18 36.96 30.30 38.04 47.60	Limit Line dBuV 65.78 55.78 51.64 56.32 46.00 56.00 56.00 50.00 60.00 60.00	Over Limit -25.47 -22.86 -18.21 -17.12 -16.18 -19.82 -19.04 -19.70 -21.96 -12.40	Remark QP Average Average QP Average QP Average QP Average QP QP
-10 .15 . Trace: 21	Freq MHz 0.154 0.253 0.481 0.608 1.016 2.474 8.192 8.456	Read Level dBuV 28.55 21.16 21.73 27.48 18.08 24.34 25.03 18.42 26.15	LISN Factor dB 0.98 0.98 0.95 0.97 0.97 0.97 0.97 0.99 1.02 1.02	Frequen Cable Loss dB 10.78 10.78 10.75 10.75 10.75 10.77 10.87 10.87 10.86 10.87	Level dBuV 40.31 32.92 33.43 39.20 29.82 36.18 36.96 30.30 38.04	Limit Line dBuV 65.78 55.78 51.64 56.32 46.00 56.00 56.00 50.00 60.00 50.00	Over Limit 	Remark QP Average Average QP Average QP Average QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

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.



# CCIS

# 6.2 Radiated Emission

Test Requirement:	FCC Part 15 B	Section 1	5.109				
Test Method:	ANSI C63.4:201	4					
Test Frequency Range:	30MHz to 6000	MHz					
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Chan	nber)	
Receiver setup:	Frequency	Dete	ctor	RBW	VB\	Ν	Remark
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value
	Above 1GHz	Pea		1MHz	3MF		Peak Value
Limit:	Frequenc	RM		1MHz (dBuV/m @	3MF	HZ	Average Value Remark
Limit.	30MHz-88M		LIIIII	40.0	soni)	0	Quasi-peak Value
	88MHz-216M			43.5			Quasi-peak Value
	216MHz-960			46.0			Quasi-peak Value
	960MHz-1G			54.0			Quasi-peak Value
				54.0			Average Value
	Above 1G	72		74.0			Peak Value
Test setup:	Below 1GHz						
	EUT Turn Table Oround Plane – Above 1GHz	Im Im A	Ŵ		Antenna - Searc Antenn RF Test 		



Test Procedure:	ground degrees 2. The EU antenna tower. 3. The ant ground horizont measur 4. For eac and the and the find the 5. The tes Bandwid 6. If the er limit spe EUT wo margin	at a 3 meter s to determine T was set 3 m a, which was n enna height is to determine tal and vertica ement. h suspected on n the antenna rotatable tab maximum rea t-receiver sys dth with Maxi nission level of poid be report would be ret	semi-anechol the position neters away f mounted on t s varied from the maximun al polarization emission, the a was tuned t le was turned ading. tem was set mum Hold M of the EUT in esting could I ed. Otherwis ested one by	ic camber. The of the highes from the inter he top of a va- one meter to n value of the as of the anter EUT was an o heights from to Peak Deter ode. peak mode vo be stopped an e the emission one using peak	table was st radiation. ference-rec ariable-heig o four meter field streng ranged to it m 1 meter t ees to 360 ect Function was 10dB k nd the peak ons that did eak, quasi-p	ceiving ght antenna rs above the gth. Both t to make the rs worst case o 4 meters degrees to and Specified ower than the c values of the not have 10dB peak or
Test environment:	Temp.:	e method as s 24 °C	Humid.:	57%	Press.:	1 01kPa
	-			57 /0	11033	ιυικγα
Test Instruments:		ection 5.9 for				
Test mode:	Refer to se	ection 5.3 for	details			
Test results:	Passed					
Remark:	All of the c recorded	bserved valu	e above 6GH	Iz ware the n	niose floor ,	which were no



#### Measurement Data:

Below	1GHz:
-------	-------

	Name:	Smart Pho	one		Prod	luct mode	l: PL	_620		
Fest By:		Caffrey			Test	mode:	PC	C mode		
Test Free	quency:	30 MHz ~	1 GHz		Pola	rization:	Ve	ertical		
Fest Volt	tage:	AC 120/60	OHz		Envi	ronment:	Те	<b>mp: 24</b> ℃	Hun	i: 57%
Lovo	el (dBuV/m)									
80	a (ubuv/m)									
70									_	
60								FCC PAR	T15 CL	ASSB
50										
40						2		3	4	e
40				4		Ī				
30				A					J.M	halide
30 20				A		M, M	y which when	and we have	nisher with	handtha
20	the particular sources	mark and	wind	Au	Lement	muum	the second where the second	mouldened	nether which	hand
	when produced the second	northeres	wind	A	ndulement	Mulum	which	mulation	as a start of the	wint
20	<sup>ин</sup> иции 50	no la maria	100		200	Mulum	which and	500	-starter web	100
20 10	<sup>иц</sup> и, милим 50		100		lency (MHz	Martalan Latar	which a	500	n share and	100
20 10		Read	100 Antenna	Cable	lenc <mark>y (</mark> MHz Preamp	and man	Limit	500 Over		
20 10	Freq	Read/ Level	100 Antenna Factor	Cable Loss	iency (MHz Preamp Factor	Level	Line	500 Over Limit		
20 10		Read/ Level	100 Antenna	Cable	iency (MHz Preamp Factor	and man	Line	500 Over Limit		
20 10 0 30	Freq MHz 147.921	Read/ Level dBuV 49.44	100 Antenna Factor dB/m 8.50	Cable Loss dB 2.50	iency (MHz Preamp Factor dB 29.23	Level dBuV/m 31.21	Line dBuV/m 43.50	500 500 Uver Limit 	Rema QP	
20 10 0 30	Freq MHz	Read/ Level dBuV 49.44 50.95	100 Antenna Factor dB/m 8.50 12.97	Cable Loss dB 2.50 2.82	iency (MHz Preamp Factor dB 29.23 28.59	Level dBuV/m	Line dBuV/m 43.50 46.00	500 Over Limit 	Rema  QP QP	
20 10 0 30	Freq MHz 147.921 239.987 480.528 721.726	Read/ Level dBuV 49.44 50.95 49.19 42.02	100 Antenna Factor dB/m 8.50 12.97 16.97 20.33	Cable Loss dB 2.50 2.82 3.46 4.26	iency (MHz Preamp Factor dB 29.23 28.59 28.92 28.58	Level dBuV/m 31.21 38.15 40.70 38.03	Line dBuV/m 43.50 46.00 46.00 46.00	500 500 Over Limit 	Rema QP QP QP QP QP	
20 10 0 30	Freq MHz 147.921 239.987 480.528	Read/ Level dBuV 49.44 50.95 49.19 42.02 39.42	100 Antenna Factor dB/m 8.50 12.97 16.97	Cable Loss dB 2.50 2.82 3.46	iency (MHz Preamp Factor dB 29.23 28.59 28.92 28.58	Level dBuV/m 31.21 38.15 40.70	Line dBuV/m 43.50 46.00 46.00 46.00 46.00	500 Over Limit 	Rema QP QP QP QP QP QP QP	



Produc	t Name:	Smart Ph	one		Pro	duct mod	el:	PL620	
est By	y:	Caffrey			Tes	t mode:		PC mode	
est Fr	equency:	30 MHz ~	1 GHz		Pola	arization:		Horizontal	
Test Vo	oltage:	AC 120/6	0Hz		Env	rironment	•	<b>Temp: 24</b> ℃	C Huni: 57%
Le	vel (dBuV/m)								
80									
70									
60								FCC PA	RT15 CLASS B
50						-			
						1		3	6
40									4 51
30				1				_	
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10	handless annothing the	mahlemaster	man	hughert	WWW MAN				
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<sup>0</sup> 30	50		100	Fred	200 uency (MH	7)		500	100
		Read	Intenna	100000000000000000000000000000000000000		2)	Limit	Over	
						Lorrol			Remark
	Free	l Level	Factor	LOSS	ractor	rever	5110		
	Free MH:		Factor dB/m	Loss dB		dBuV/m			
1		- dBu⊽			<u>a</u> b		dBuV∕π		- <u></u>
1 2 2	MH: 121.123 239.98	dBuV 3 43.32 7 58.06	dB/m 10.03 12.97	dB 2.18 2.82	dB 29.38 28.59	dBuV/m 26.15 45.26	dBuV/π 43.50 46.00	dB -17.35 -0.74	 QP QP
1 2 3 4	MH: 121.12: 239.98 480.528	dBuV dBuV 3 43.32 7 58.06 3 52.64	dB/m 10.03 12.97 16.97	dB 2.18 2.82 3.46		dBuV/m 26.15 45.26 44.15	dBuV/m 43.50 46.00 46.00	dB -17.35 -0.74 -1.85	QP QP QP
1 2 3 4 5 6	MH: 121.123 239.98	dBuV 43.32 58.06 52.64 40.22 37.96	dB/m 10.03 12.97 16.97	dB 2.18 2.82	dB 29.38 28.59 28.92 28.58 27.79	dBuV/m 26.15 45.26 44.15 36.23	dBuV/π 43.50 46.00 46.00 46.00 46.00	dB -17.35 -0.74	QP QP QP QP QP QP

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



#### Above 1GHz:

roduct	Name:	Smart Ph	one		Pro	duct mode	el: F	PL620	
est By:		Caffrey			Tes	t mode:	F	PC mode	
est Fred	quency:	1 GHz ~ (	6 GHz		Pola	arization:	١	/ertical	
est Volt	age:	AC 120/6	i0Hz		Env	ironment:		<b>ſemp: 24</b> ℃	Huni: 57%
80	l (dBuV/m)								
								FCC	PART 15 (PK)
70									
60									
								FCC	PART 15 (AV)
50									5
1000						. 3		In Include	hand Myny you
40						1		4 Martin Martin	a to walk .
40			In Los Abob	a when when	war a property and	whenter	mentania	Anna an	6
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	R. Jacobi Decontemportan	www.mn.m	Martin Alexa	the shade the second	wardening	when the main the	handerson	Annar an	6
40 30 m/dn 20	B. Inter W. Stern Manyalin Ann	www.tmp.mu	niretrat./www.	in the second second	war, righ, she fire	when when when when when when when when	www.www	Annan.	
20	B. Igar (18) Berntanya (natara	mum	dina production de la constante	the state of the s	Weer right and a river	2 2	www.www	Anarata.	6
	B. Jacobi Microbiologica	www.thopha	ntras trade that the	and the second	warthing	waywellinght	handanan		
20					War La	waywelkindow 2	handana		
20		1500		2000	uency (MHz		handarina		5000 600
20		1500		2000 Frequ		)	Limit		
20		1500 Read/	2	2000 Frequ Cable	uency (MHz Preamp	)	Limit	Over	
20	1200	1500 Read/	2 Antenna	2000 Frequ Cable	uency (MHz Preamp Factor	)	Limit Line	Over Limit	5000 600
20 10 0 1000	1200 Freq MHz	1500 Read/ Level	2 Antenna Factor 	2000 Frequences Loss dB	uency (MHz Preamp Factor dB	) Level dBuV/m	Limit Line dBuV/n	Over Limit	5000 600 Remark
20 10 0 1000 -	1200 Freq	1500 Read/ Level dBuV	2 Antenna Factor 	2000 Freq Cable Loss	uency (MHz Preamp Factor dB 41.53	) Level dBuV/m 37.36 27.93	Limit Line dBuV/n 74.00 54.00	Over Limit 1 -36.64 1 -26.07	5000 600 Remark Peak Average
20 10 0 1000 1000	1200 Freq MHz 2961.827 2961.827 3227.832	1500 Read/ Level dBuV 45.05 35.62 46.34	2 Antenna Factor 	2000 Frequ Cable Loss dB 5.31 5.31 5.45	uency (MHz Preamp Factor dB 41.53 41.53 41.40	) Level dBuV/m 37.36 27.93 39.13	Limit Line dBuV/n 74.00 54.00 74.00	Over Limit 	5000 600 Remark  Peak Average Peak
20 10 0 1000 	1200 Freq MHz 2961.827 2961.827 3227.832 3227.832	1500 Read/ Level dBuV 45.05 35.62 46.34 36.89	2 Antenna Factor 	2000 Frequence Cable Loss dB 5.31 5.31 5.45 5.45	uency (MHz Preamp Factor dB 41.53 41.53 41.40 41.40	) Level dBuV/m 37.36 27.93 39.13 29.68	Limit Line dBuV/n 74.00 54.00 74.00 54.00	Over Limit 	5000 600 Remark Peak Average Peak Average
20 10 0 1000 	1200 Freq MHz 2961.827 2961.827 3227.832 3227.832	1500 Read/ Level dBuV 45.05 35.62 46.34 36.89	2 Antenna Factor dB/m 28.53 28.53 28.74 28.74 32.07	2000 Frequ Cable Loss dB 5.31 5.31 5.45	uency (MHz Preamp Factor dB 41.53 41.53 41.40 41.40 41.94	) Level dBuV/m 37.36 27.93 39.13 29.68 44.78	Limit Line dBuV/n 74.00 54.00 54.00 54.00 74.00	Over Limit dB -36.64 -26.07 -34.87 -24.32 -29.22	5000 600 Remark Peak Average Peak Average



Product	Name:	Smart Ph	ione		Pro	duct mod	el: F	PL620		
est By:		Caffrey			Tes	st mode:	F	PC mode		
Test Free	quency:	1 GHz ~	6 GHz		Pol	arization:	H	Horizontal		
Fest Volt	tage:	AC 120/6	60Hz		Env	vironment	:	<b>Гетр: 24</b> ℃	: Hur	ni: 57%
Leve	l (dBuV/m)									
80								FCC	PART 1	5 (PK)
70										
60									-	_
								FCC	PART 1	5 (AV)
50									27	5
40						1		a har bear	produced	MAMM
10			1 15 2	in a second	Monaharan	mont	minin	10.4411.1	4	6
		the state of the state of the	, M. M. Mars	UN JUNE AND DESTRUCTION	No. of the local data					
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20	derombally garages and	perous Assents	hard a share and and a share a	and provide and	<b>V</b> • • • •	2				
	an an half of a large marked	prove the parts	he was a second and a second and a second a s		<b>N</b> . <b>A</b> . <b>B</b> . <b>C</b> .	2				
20					<b>N</b> .	2				
20 10		1500		2000	uency (MH				5000	600
20	) 1200	1500 Read/	Antenna	2000 Freq Cable	uency(MH Preamp	z)	Limit	Over	5000	600
20 10		1500 Read/	Antenna	2000 Freq	uency(MH Preamp	z)	Limit	Over	5000	600
20	) 1200	1500 Read/	Antenna Factor	2000 Freq Cable Loss	uency (MH Preamp Factor	z)	Limit Line	Over Limit	5000	600
20	) 1200 Freq MHz	1500 Read/ Level dBuV	Antenna Factor dB/m	2000 Freq Cable Loss dB	uency (MH Preamp Factor dB	z) Level dBuV/m	Limit Line dBuV/m	Over Limit dB	5000 Remar	600
20 10 0 1000	) 1200 Freq MHz 2972.460 2972.460	1500 Read/ Level dBuV 45.83 36.21	Antenna Factor 	2000 Freq Cable Loss dB 5.32 5.32	uency (MH Preamp Factor dB 41.53 41.53	z) Level dBuV/m 38.17 28.55	Limit Line dBuV/m 74.00 54.00	Over Limit  dB -35.83 -25.45	5000 Remar  Peak Avera	600 k
20 10 0 1000 1000	0 1200 Freq MHz 2972.460 2972.460 4710.867	1500 Read/ Level dBuV 45.83 36.21 46.14	Antenna Factor 	2000 Freq Cable Loss dB 5.32 5.32 6.85	uency (MH Preamp Factor dB 41.53 41.53 41.96	z) Level dBuV/m 38.17 28.55 42.48	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit  dB -35.83 -25.45 -31.52	5000 Remar  Peak Avera Peak	600 k
20 10 0 1000 	2972.460 2972.460 4710.867 4710.867	1500 Read/ Level dBuV 45.83 36.21 46.14 36.58	Antenna Factor dB/m 28.55 28.55 31.45 31.45	2000 Freq Cable Loss dB 5.32 5.32 6.85 6.85	uency (MH Preamp Factor dB 41.53 41.53 41.96 41.96	z) Level dBuV/m 38.17 28.55 42.48 32.92	Limit Line dBuV/m 74.00 54.00 74.00 54.00	Over Limit 	5000 Remar  Peak Avera Peak Avera	600 k
20 10 0 1000 	0 1200 Freq MHz 2972.460 2972.460 4710.867	1500 Read/ Level dBuV 45.83 36.21 46.14	Antenna Factor dB/m 28.55 28.55 31.45 31.45 32.74	2000 Freq Cable Loss dB 5.32 6.85 6.85 7.55	uency (MH Preamp Factor dB 41.53 41.53 41.96	z) Level dBuV/m 38.17 28.55 42.48 32.92 44.92	Limit Line dBuV/m 74.00 54.00 74.00 54.00 74.00	Over Limit  dB -35.83 -25.45 -31.52	5000 Remar  Peak Avera Peak Avera Peak	600 k ge