FCC REPORT

Applicant: Burg Realisation HongKong Limited

Address of Applicant:

Room 1002, 10th Floor Malaysia Building, 50 Gloucester Road,

Wanchai, Hong Kong, China

Equipment Under Test (EUT)

Product Name: Smart Watch Phone

Model No.: Burg 16A

Trade mark: BURG

FCC ID: YIABURG16A

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 10 Jun., 2014

Date of Test: 11 Jun., to 27 Jun., 2014

Date of report issued: 27 Jun., 2014

Test Result: Pass*

Authorized Signature:



Bruce Zhang 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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^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	27 Jun., 2014	Original

Prepared by: Date: 27 Jun., 2014

Report Clerk

Reviewed by: Date: 27 Jun., 2014

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part15.107	Pass		
Radiated Emission	Part15.109	Pass		

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	Burg Realisation HongKong Limited						
Address of Applicant:	Room 1002, 10th Floor Malaysia Building, 50 Gloucester R Wanchai, Hong Kong, China						
Manufacturer:	Guangzhou Youjia Communication Equipment Limited						
Address of Manufacturer:	Main Building, Meiyagao Jewelry Park, Shi Xin Road, Nancun Panyu Guangzhou, China.						
Factory	Guangzhou Youjia Communication Equipment Limited						
Address of Factory	Address of Factory Main Building, Meiyagao Jewelry Park, Shi Xin Road, Nancun Par Guangzhou, China.						

5.2 General Description of E.U.T.

Product Name:	Smart Watch Phone
Model No.:	Burg 16A
Power supply:	Rechargeable Li-ion Battery DC3.7V-300mAh

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case for Radiated Emission)
Communication mode	Keep the EUT in Communication mode(Worst case for Conducted Emission)
Charging+recording mode	Keep the EUT in Charging+recording mode
Charging+Play mode	Keep the EUT in Charging+Play 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.



Project No.: CCIS140400204RF

5.4 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	DELL MOUSE		N/A	DoC
HP	Printer	CB495A	05257893	DoC

5.5 Laboratory Facility

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

FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

● 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.

5.6 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

Shenzhen Zhongjian Nanfang Testing Co., Ltd. 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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5.7 Test Instruments list

Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2014	June 08 2015	
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2014	May 24 2015	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2014	May 24 2015	
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2014	Mar. 31 2015	
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2014	Mar. 31 2015	
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2014	Mar. 31 2015	
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2014	Mar. 31 2015	
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2014	Mar. 31 2015	
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2014	Mar. 31 2015	
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2014	June 08 2015	
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2014	Mar. 31 2015	
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2014	Mar. 29 2015	
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A	
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A	
16	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	May. 25 2014	May. 24 2015	
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2014	Mar. 31 2015	
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014	
19	Universal radio communication tester	Universal radio Rhode & Schwarz		CCIS0069	May. 25 2014	May. 24 2015	
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2014	May. 24 2015	

Cond	Conducted Emission:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2014	June 08 2015					
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2014	May. 24 2015					
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2014	Mar. 31 2015					
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015					

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6 Test results and Measurement Data

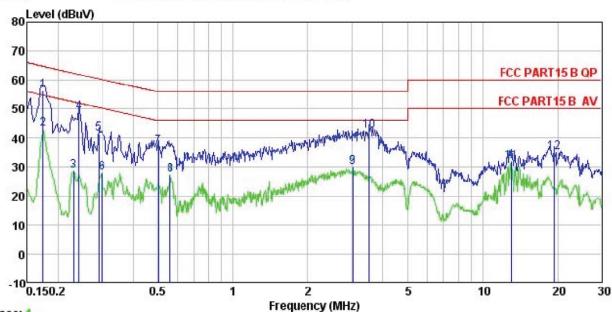
6.1 Conducted Emission

	FCC Part15 B Section 15.107							
Test Method:	ANSI C63.4:2003							
Test Frequency Range:	150kHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz	RBW=9kHz, VBW=30kHz						
Limit:		Limit (d	BuV)					
	Frequency range (MHz) Quasi-peak Average							
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5 56							
	0.5-30	60	50					
Test procedure	Reference Plane LISN 40cm 80cm AUX Equipment E.U.T Test table/Insulation plane Remark EU.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators are impedance stabilization network coupling impedance for the me	EMI Receiver	wer through a line					
	2. The peripheral devices are als that provides a 50ohm/50uH or (Please refers to the block diag.) 3. Both sides of A.C. line are che order to find the maximum emi of the interface cables must be conducted measurement.	o connected to the main poupling impedance with 5 gram of the test setup and ecked for maximum conduitsion, the relative position	Oohm termination. d photographs). ucted interference. In ns of equipment and all					
Test environment:	Temp.: 23 °C Humio	d.: 56% Pres	s.: 1 01kPa					
Measurement Record:			Uncertainty: 3.28dB					
Test Instruments:	Refer to section 5.7 for details		<u> </u>					
Test mode:	Refer to section 5.3 for details							
Test results:	Pass							



Measurement data:

Line:



Trace: 1

: CCIS Conducted test Site : FCC PART15 B QP LISN LINE Site Condition

Job. no EUT : Smart Watch Phone : Burg 16A

Model Test Mode : Communication mode

Power Rating: AC 120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Garen

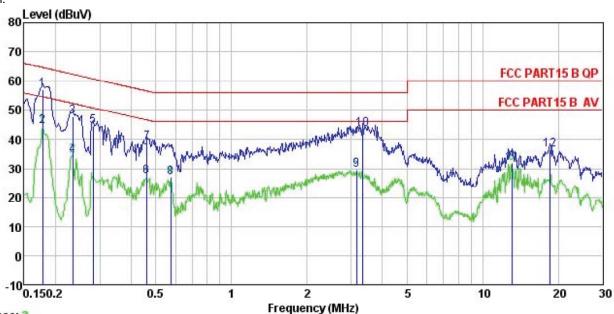
Remark

Condia	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>		dBu₹	dBu⊽		
1 2 3 4 5	0.174 0.174 0.230 0.242	45.40 32.19 17.49 37.66	0. 27 0. 27 0. 27 0. 27	10.77 10.77 10.75 10.75	56. 44 43. 23 28. 51 48. 68	54.77 52.44		Average Average
5 6 7 8 9	0.289 0.299 0.502 0.561	30.46 16.99 26.04 16.11	0.26 0.26 0.29 0.27	10.74 10.74 10.76 10.77	41.46 27.99 37.09 27.15	50.28 56.00	-18.91	Average
9 10 11 12	3. 025 3. 528 13. 057 19. 326	18.62 31.26 20.62 23.78	0. 27 0. 28 0. 32 0. 34	10.92 10.90 10.91 10.92	29. 81 42. 44 31. 85 35. 04	56.00 50.00	-13.56	Average

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Neutral:



Trace: 3

Site : CCIS Conducted test Site
Condition : FCC PART15 B QP LISN NEUTRAL

Job. no EUT

Smart Watch Phone

Model : Burg 16A

Test Mode : Communication mode

Power Rating : AC 120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Garen

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu√	<u>ab</u>	<u>ab</u>	dBu∀	dBu∀	<u>dB</u>	
1	0.178	46.07	0.25	10.77	57.09	64.59	-7.50	QP
2	0.178	33.54	0.25	10.77	44.56	54.59	-10.03	Average
3	0.234	36.90	0.25	10.75	47.90	62.30	-14.40	QP
4	0.234	23.56	0.25	10.75	34.56	52.30	-17.74	Average
2 3 4 5 6 7	0.282	33.37	0.26	10.74	44.37	60.76	-16.39	QP
6	0.459	16.17	0.28	10.75	27.20	46.71	-19.51	Average
7	0.461	27.80	0.28	10.75	38.83	56.67	-17.84	QP
8	0.573	16.00	0.25	10.77	27.02	46.00	-18.98	Average
8 9	3.156	18.25	0.29	10.91	29.45			Average
10	3.346	32.40	0.29	10.91	43.60		-12.40	
11	13.057	20.80	0.25	10.91	31.96	50.00	-18.04	Average
12	18.524	25.17	0.26	10.91	36.34	60.00	-23.66	QP

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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6.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109							
Test Method:	ANSI C63.4:2003							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency Detector RBW VBW Remark							
	30MHz-1GHz	Quasi-peak			Quasi-peak Value			
	Above 1GHz	Peak	1MHz 3MHz		Peak Value			
	715070 10112	Peak	1MHz	10Hz	Average Value			
Limit:	Freque		Limit (dBuV/		Remark			
	30MHz-8		40.0		Quasi-peak Value			
	88MHz-2		43.5		Quasi-peak Value			
	216MHz-9		46.0		Quasi-peak Value			
	960MHz-	1GHz	54.0		Quasi-peak Value			
	Above 1	GHz	54.0		Average Value			
	L	_	74.0)	Peak Value			
Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz Antenna Tower Horn Antenna Spectrum Analyzer Amplifier							

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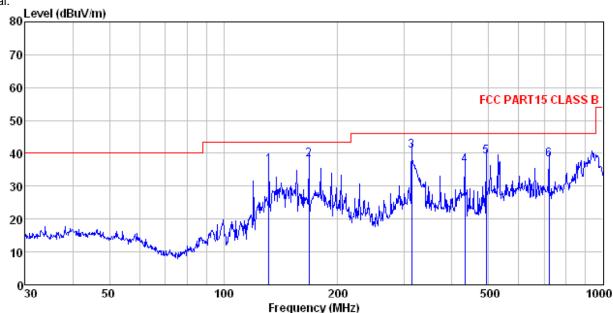
 at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 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. 							
Temp.: 25 °C Humid.: 55% Press.: 1 01kPa							
Uncertainty: 4.88dB							
Refer to section 5.7 for details							
Refer to section 5.3 for details							
4							



Measurement Data

Below 1GHz

Horizontal:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

EUT : Smart watch Phone

: Burg 16A : PC MODE Model Test mode : PC MODE
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Garen REMARK :

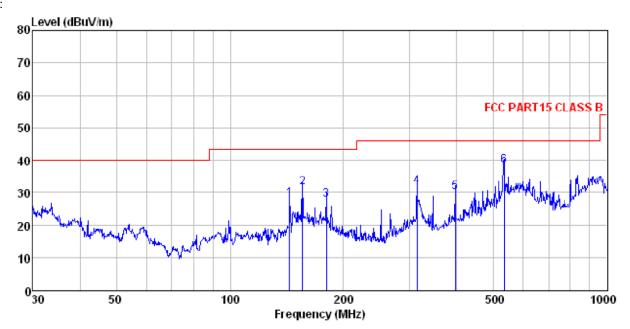
asilianar	•				-		.		
		KeadA	int enna	Cable	Preamp		Limit	Over	
	Frea	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	-								
_	MHz	dBu∀	—dB/π	B	a	dBuV/m	3B., 77-	dB	
	ишх	ana v	шуш	ш	ш	man/ iii	man/ iii	ш	
1	131.758	54.58	8.82	2.30	29.50	36.20	43.50	-7.30	QP
2	167.824	55.65	8.90	2.64	29.01	38.18	43.50	-5.32	QP
3	313.276	54.00	13.24	2.98	29.50	40, 72	46.00	-5.28	ΩP
4	432.546		15.53	3.16			46.00		-
									-
5	492.469	49.69	16.39	3.55	30.52	39.11	46.00	-6.89	QP
6	721.726	45.21	19.10	4.26	30.55	38.02	46.00	-7.98	QP
									-

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Vertical:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : Smart watch Phone Condition

EUT

: Burg 16A : PC MODE Model Test mode : PC MODE Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55%

Test Engineer: Garen REMARK :

Freq Level Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m dB dB dBuV/m dBuV/m dBuV/m dB 1 143.830 46.69 8.22 2.44 29.32 28.03 43.50 -15.47 QP 2 155.910 50.04 8.51 2.56 29.65 31.46 43.50 -12.04 QP 3 180.017 41.96 9.68 2.73 26.51 27.86 43.50 -15.64 QP 4 313.276 45.19 13.24 2.98 29.50 31.91 46.00 -14.09 QP 5 396.242 42.01 14.97 3.08 29.88 30.18 46.00 -15.82 QP		•				_			_	
1 143.830 46.69 8.22 2.44 29.32 28.03 43.50 -15.47 QP 2 155.910 50.04 8.51 2.56 29.65 31.46 43.50 -12.04 QP 3 180.017 41.96 9.68 2.73 26.51 27.86 43.50 -15.64 QP 4 313.276 45.19 13.24 2.98 29.50 31.91 46.00 -14.09 QP 5 396.242 42.01 14.97 3.08 29.88 30.18 46.00 -15.82 QP		Freq								
2 155.910 50.04 8.51 2.56 29.65 31.46 43.50 -12.04 QP 3 180.017 41.96 9.68 2.73 26.51 27.86 43.50 -15.64 QP 4 313.276 45.19 13.24 2.98 29.50 31.91 46.00 -14.09 QP 5 396.242 42.01 14.97 3.08 29.88 30.18 46.00 -15.82 QP	-	MHz	—dBu∜	<u>dB</u> /m	<u>d</u> B	<u>d</u> B	$\overline{dB} \overline{u} \overline{V} / \overline{m}$	dBuV/m	<u>dB</u>	
	3 4	155.910 180.017 313.276 396.242	50.04 41.96 45.19 42.01	8.51 9.68 13.24 14.97	2.56 2.73 2.98 3.08	29.65 26.51 29.50 29.88	31.46 27.86 31.91 30.18	43.50 43.50 46.00 46.00	-12.04 -15.64 -14.09 -15.82	QP QP QP QP

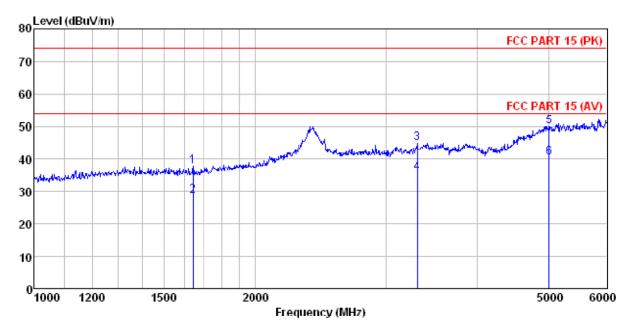
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Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

EUT : Smart watch Phone

Model : Burg 16A
Test mode : PC mode
Power Rating : AC 120V/60Hz

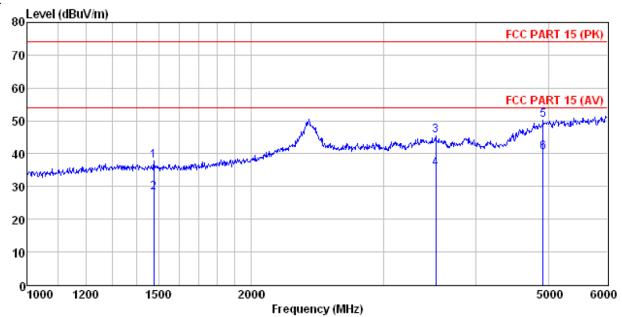
Environment: Temp:25°C Huni:55% Atmos:101Kpa
Test Engineer: Garen
Remark:

emar	: :									
		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
-						75-77-				
	MHz	dBu∀	ab/m	dВ	Ф	dBuV/m	apa v/m	dВ		
1	1642.661	49.78	24.86	4.23	40.97	37.90	74.00	-36.10	Peak	
2	1642.661	40.48	24.86	4.23	40.97				Average	
3	3315.761	50.01	28.33	6.22	39.62	44.94	74.00	-29.06	Peak -	
4	3315.761	40.89	28.33	6.22	39.62	35.82	54.00	-18.18	Average	
5	5006.774	49.03	31.85	9.12	39.99	50.01	74.00	-23.99	Peak	
6	5006.774	39.56	31.85	9.12	39.99	40.54	54.00	-13.46	Average	

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Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : Smart watch Phone

: Burg 16A Model Test mode : PC mode Power Rating : AC 120V/60Hz Environment : Temp:25°C Huni:55% Atmos:101Kpa

Test Engineer: Garen Remark :

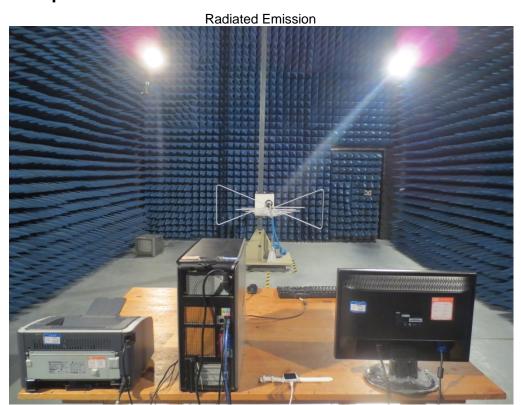
	Freq		ntenna Factor	Loss	Factor			Over Limit	Remark
	MHz	dBu∀	dB/m	d₿	dВ	dBuV/m	dBuV/m	ав	
1 2 3 4 5 6	1477.873 1477.873 3530.356 3530.356 4917.863 4917.863		25.35 25.35 29.01 29.01 31.61 31.61	3.85 3.85 6.21 6.21 9.02 9.02	39.83 39.83 40.10	27.97 45.36 35.56 50.06	74.00 54.00 74.00	-26.03 -28.64 -18.44 -23.94	Average Peak Average

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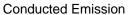


7 Test Setup Photo













8 EUT Constructional Details

Reference to the test report No. CCIS14040020401

-----End of report-----