

# CCIS Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCIS13120054004

## FCC REPORT

SENWA MEXICO, S.A. DE C.V **Applicant:** 

Av. Javier Barros Sierra 540, Torre I, Planta 5; COL. LOMAS DE

SANTA FE DELEGACION ALVARO OBREGON C.P. 01210 **Address of Applicant:** 

MEXICO.DISTRITO FEDERAL

#### **Equipment Under Test (EUT)**

Product Name: **Smart Phone** 

Model No.: S615

FCC ID: 2AAA6- S615

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 05 Dec., 2013

Date of Test: 06 Dec., 2013 to 19 Dec., 2013

Date of report issued: 20 Dec., 2013

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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



#### 2 Version

Version No.	Date	Description
00	20 Dec., 2013	Original

Prepared by:	Shirtey Li	Date:	20 Dec., 2013
	Report Clerk	_	
Reviewed by:	Zu . 2 for	Date:	20 Dec., 2013
	Project Engineer		



### 3 Contents

		Page
1	1 COVER PAGE	1
2	2 VERSION	2
3	3 CONTENTS	3
4	4 TEST SUMMARY	4
5	5 GENERAL INFORMATION	5
	5.1 CLIENT INFORMATION 5.2 GENERAL DESCRIPTION OF E.U.T 5.3 TEST MODE 5.4 DESCRIPTION OF SUPPORT UNITS 5.5 LABORATORY FACILITY 5.6 LABORATORY LOCATION 5.7 TEST INSTRUMENTS LIST	
6	6 TEST RESULTS AND MEASUREMENT DATA	8
	6.1 CONDUCTED EMISSION	11
7	7 TEST SETUP PHOTO	17
8	8 FUT CONSTRUCTIONAL DETAILS	19



### 4 Test Summary

Test Item	n Section in CFR 47		
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:	SENWA MEXICO,S.A.DE C.V
Address of Applicant:	Av. Javier Barros Sierra 540, Torre I, Planta 5; COL. LOMAS DE SANTA
	FE DELEGACION ALVARO OBREGON C.P. 01210
	MEXICO, DISTRITO FEDERAL
Manufacturer/Factory:	Shenzhen Gold Star Group Co., LTD
Address of Manufacturer/	307-308, building B, High-Tech Plaza Phase I, Tian An Cyber Park,
Factory:	Futian Shenzhen, China

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

Product Name:	Smart Phone
Model No.:	S615
Power supply:	DC 5V from USB port

#### 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+Play mode	Keep the EUT in Charging+Play 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 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
HP	Printer	CB495A 05257893		DoC
MERCURY	Wireless router	MW150R	12922104015	FCC ID

#### 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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Page 6 of 19



#### 5.7 Test Instruments list

Radia	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 2013	June 08 2014	
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	May 25 2013	May 24 2014	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 25 2013	May 24 2014	
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
5	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2013	Mar. 31 2014	
6	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2013	Mar. 31 2014	
7	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2013	Mar. 31 2014	
8	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2013	Mar. 31 2014	
9	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2013	Mar. 31 2014	
10	Amplifier(10kHz- 1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2013	Mar. 31 2014	
11	Amplifier(1GHz- 18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2013	June 08 2014	
12	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2013	Mar. 31 2014	
13	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2013	Mar. 29 2014	
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 2013	May. 24 2014	
17	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2013	Mar. 31 2014	
18	Loop antenna	Laplace instrument	RF300	EMC0701	Aug. 12 2013	Aug. 11 2014	
19	Universal radio		CMU200	CCIS0069	May. 25 2013	May. 24 2014	
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	May. 25 2013	May. 24 2014	

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 2013	June 08 2014				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2013	May. 24 2014				
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2013	Mar. 31 2014				
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2013	Mar. 31 2014				

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#### 6 Test results and Measurement Data

#### 6.1 Conducted Emission

Test Requirement:	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				
Limit:		Limi	it (dBµV)		
	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		
Test setup:	Reference Plane				
Test procedure	AUX Equipment E.U.T  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m  1. The E.U.T and simulators are impedance stabilization netwo	EMI Receiver			
	<ol> <li>impedance for the measuring</li> <li>The peripheral devices are als that provides a 50ohm/50uH of (Please refers to the block diation)</li> <li>Both sides of A.C. line are chorder to find the maximum emof the interface cables must be conducted measurement.</li> </ol>	o connected to the ma oupling impedance wit gram of the test setup ecked for maximum co ssion, the relative pos	th 50ohm termination. and photographs). onducted interference. In sitions of equipment and all		
Test environment:	Temp.: 23 °C Humid	d.: 56% F	Press.: 1 01kPa		
Measurement Record:		<u>i</u>	Uncertainty: 3.28dB		
Test Instruments:	Refer to section 5.7 for details		2.130.10.11.1.		
Test mode:	Refer to section 5.7 for details				
Test results:	Pass				
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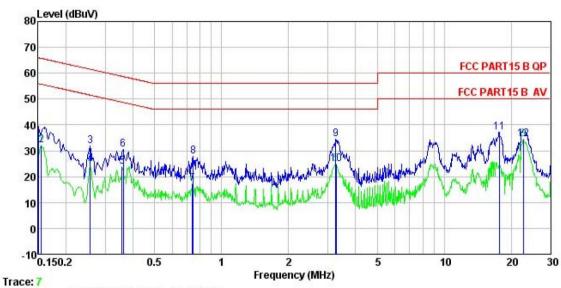
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#### Measurement data:

Line:



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

Job NO. Test Mode

Job NO. : 540RF
Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

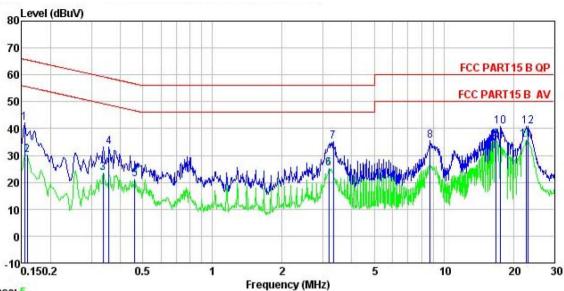
Test Engineer: Joe

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu₹	d₿	dB	dBu₹	dBu∜	dB	7
1	0.150	28. 29	10.25	0.79	39.33	66.00	-26.67	QP
2	0.155	21.12	10.25	0.79	32.16	55.74	-23.58	Average
3	0.258	21.01	10.24	0.75	32.00	61.51	-29.51	QP
4	0.258	13.77	10.24	0.75	24.76	51.51	-26.75	Average
1 2 3 4 5 6 7 8 9	0.358	12.80	10.27	0.73	23.80	48.78	-24.98	Average
6	0.361	19.61	10.27	0.73	30.61	58.69	-28.08	QP
7	0.739	6.42	10.18	0.78	17.38	46.00	-28.62	Average
8	0.747	17.03	10.19	0.79	28.01	56.00	-27.99	QP
9	3.258	23.46	10.29	0.91	34.66	56.00	-21.34	QP
10	3.276	13.69	10.29	0.91	24.89	46.00	-21.11	Average
11	17.661	26.11	10.29	0.92	37.32	60.00	-22.68	QP
12	22.655	23.20	10.45	0.90	34.55	50.00	-15.45	Average



Project No.: CCIS131200540RF

#### Neutral:



Trace: 5

: CCIS Conducted Test Site : FCC PART15 B QP LISN NEUTRAL

Site : CCIS Cond Condition : FCC PARTI Job NO. : 540RF Test Mode : PC mode

Test Mode : PC mode Power Rating : AC 120V/60Hz Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: Joe

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	dB	dBu₹	dBu₹	<u>dB</u>	
1	0.154	31.10	10.27	0.79	42.16	65.78	-23.62	QP
2	0.158	19.21	10.26	0.78	30.25	55.56	-25.31	Average
2	0.337	12.40	10.25	0.73	23.38	49.27	-25.89	Average
4	0.358	22.13	10.25	0.73	33.11	58.78	-25.67	QP
4 5 6 7	0.461	10.08	10.27	0.75	21.10	46.67	-25.57	Average
6	3.190	13.94	10.28	0.91	25.13	46.00	-20.87	Average
7	3.328	23.98	10.28	0.91	35.17	56.00	-20.83	QP
8 9	8.729	24.49	10.24	0.89	35.62	60.00	-24.38	QP
9	16.839	24.62	10.27	0.91	35.80	50.00	-14.20	Average
10	17.568	29.52	10.29	0.92	40.73	60.00	-19.27	QP
11	22.655	24.55	10.45	0.90	35.90	50.00	-14.10	Average
12	23.140	29.41	10.48	0.89	40.78	60.00	-19.22	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

Italiated Emission								
Test Requirement:	FCC Part15 B Section 15.109							
Test Method:	ANSI C63.4:2003	ANSI C63.4:2003						
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency							
	30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	Above 10112	Peak	1MHz	10Hz	Average Value			
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Remark			
	30MHz-8	8MHz	40.0	)	Quasi-peak Value			
	88MHz-2	16MHz	5	Quasi-peak Value				
	216MHz-9	60MHz	)	Quasi-peak Value				
	960MHz-	216MHz-960MHz 46.0 960MHz-1GHz 54.0						
	Above 1	960MHz-1GHz 54.0 Above 1GHz 54.0						
	Above	GHZ	74.0	)	Average Value Peak Value			
Test setup:	Ground Plane —  Above 1GHz	Sm Im	S <sub>S</sub>	Antenna Tower  Search Antenna  RF Test Receiver  Antenna Tower  Antenna Tower  Antenna Tower  Amplifier				



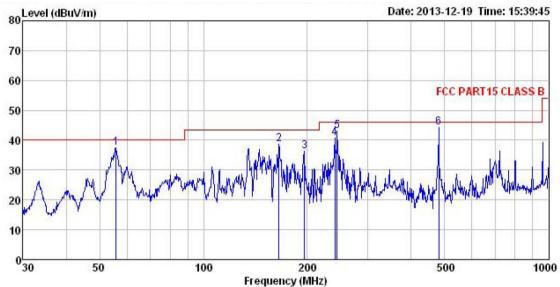
	T						
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.						
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.						
	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.						
	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.						
	and then reported in a data sheet.						
Test environment:	and then reported in a data sheet.  Temp.: 25 °C Humid.: 55% Press.: 1 01kPa						
Test environment:  Measurement Record:							
	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa						
Measurement Record:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa Uncertainty: 4.88dB						



#### **Measurement Data**

Below 1G

Horizontal:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL : 540RF Site Condition

Job NO. EUT

: Mobile phone Model : S615
Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C
Test Engineer: A-bomb

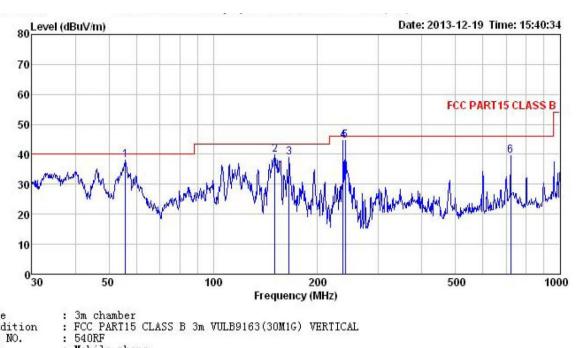
Huni:55%

	Life Incol.		Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∀	<u>dB</u> /m	<u>d</u> B	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1	55.805	51.92	12.99	1.36	28.83	37.44	40.00	-2.56	QP
2	165.487	56.70	8.82	2.62	29.33	38.81	43.50	-4.69	QP
3	196.510	52.84	10.57	2.84	29.82	36.43	43.50	-7.07	QP
4	239.987	55.48	12.09	2.82	29.64	40.75	46.00	-5.25	QP
5	244.232	57.88	12.08	2.82	29.62	43.16	46.00	-2.84	QP
6	480.528	55.29	16.07	3.46	30.52	44.30	46.00	-1.70	QP

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Vertical:



Site

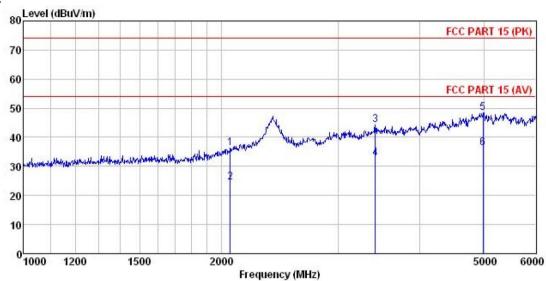
Condition
Job NO. EUT : Mobile phone Model : S615
Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: A-bomb

1000	THETHOUT.	TI DOMED							
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu₹		dB	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1	55.805	52.67	12.99	1.36	28.83	38.19	40.00	-1.81	QP
2	150.538	58.43	8.29	2.52	29.27	39.97	43.50	-3.53	QP
1 2 3 4 5 6	165.487	56.84	8.82	2.62	29.33	38.95	43.50	-4.55	QP
4	236.645	59.57	11.93	2.83	29.65	44.68	46.00	-1.32	QP
5	239.987	59.31	12.09	2.82	29.64	44.58	46.00	-1.42	QP
6	721, 726	46, 89	19, 10	4.26	30, 55	39, 70	46,00	-6.30	ΩP



#### Above 1 G

Horizontal:



Site

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

540RF Job NO. EUT Mobile phone Model : S615
Test mode : PC mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C

Huni:55%

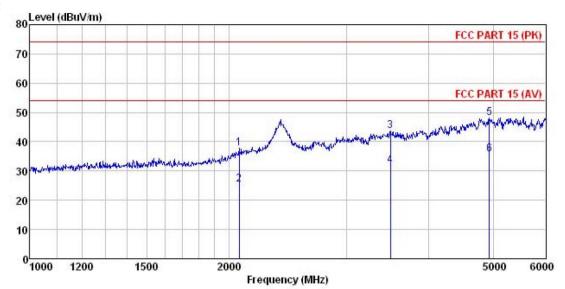
Test Engineer: A-bomb

ReadAntenna Cable Preamp Over Limit Loss Factor Level Line Limit Remark Freq Level Factor dBu∀ dB/m dB dBuV/m dBuV/m MHz ďΒ 26.45 26.45 28.53 28.53 31.79 31.79 2058.709 2058.709 40.67 40.67 38.96 38.96 74.00 -37.78 Peak 54.00 -29.61 Average 74.00 -29.86 Peak 54.00 -21.15 Average 4.94 4.94 6.41 45.50 33.67 36.22 24.39 23456 48. 16 36. 87 47. 47 35. 24 3418.313 3418.313 44.14 32.85 6.41 9.12 74.00 -25.60 Peak 4988.864 39.98 48.40 9.12 39.98 36.17 54.00 -17.83 Average 4988.864

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Project No.: CCIS131200540RF

Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL : 540RF Condition

Job NO. EUT : Mobile phone Model : S615 Test mode : PC mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: A-bomb

Freq						Limit Line	Over Limit	Remark
MHz	dBu∜	dB/m	₫B	dB	dBuV/m	dBuV/m	dB	
2069.805	46.85	26.71	4.97					
3498.869	48.04	28.86	6.27	39.58	43.59	74.00	-30.41	Peak
4935.518	47.58	31.64	9.06	40.05	48.23	74.00	-25.77	Peak
	MHz 2069. 805 2069. 805 3498. 869 3498. 869 4935. 518	MHz dBuV 2069.805 46.85 2069.805 34.22 3498.869 48.04 3498.869 36.44 4935.518 47.58	Freq Level Factor  MHz dBuV dB/m  2069.805 46.85 26.71 2069.805 34.22 26.71 3498.869 48.04 28.86 3498.869 36.44 28.86 4935.518 47.58 31.64	Freq Level Factor Loss  MHz dBuV dB/m dB  2069.805 46.85 26.71 4.97 2069.805 34.22 26.71 4.97 3498.869 48.04 28.86 6.27 3498.869 36.44 28.86 6.27 4935.518 47.58 31.64 9.06	Freq Level Factor Loss Factor  MHz dBuV dB/m dB dB  2069.805 46.85 26.71 4.97 40.62 2069.805 34.22 26.71 4.97 40.62 3498.869 48.04 28.86 6.27 39.58 3498.869 36.44 28.86 6.27 39.58 4935.518 47.58 31.64 9.06 40.05	MHz dBuV dB/m dB dB dBuV/m 2069.805 46.85 26.71 4.97 40.62 37.91 2069.805 34.22 26.71 4.97 40.62 25.28 3498.869 48.04 28.86 6.27 39.58 43.59 3498.869 36.44 28.86 6.27 39.58 31.99 4935.518 47.58 31.64 9.06 40.05 48.23	Freq Level Factor Loss Factor Level Line  MHz dBuV dB/m dB dB dBuV/m dBuV/m  2069.805 46.85 26.71 4.97 40.62 37.91 74.00  2069.805 34.22 26.71 4.97 40.62 25.28 54.00  3498.869 48.04 28.86 6.27 39.58 43.59 74.00  3498.869 36.44 28.86 6.27 39.58 31.99 54.00  4935.518 47.58 31.64 9.06 40.05 48.23 74.00	Freq Level Factor Loss Factor Level Line Limit  MHz dBuV dB/m dB dB dBuV/m dBuV/m dB  2069.805 46.85 26.71 4.97 40.62 37.91 74.00 -36.09 2069.805 34.22 26.71 4.97 40.62 25.28 54.00 -28.72 3498.869 48.04 28.86 6.27 39.58 43.59 74.00 -30.41 3498.869 36.44 28.86 6.27 39.58 31.99 54.00 -22.01 4935.518 47.58 31.64 9.06 40.05 48.23 74.00 -25.77

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