FCC REPORT

Applicant: Interglobe Connection Corp

Address of Applicant: 7500 NW 25th Street 112 Miami, Florida 33122 USA

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: MINI R150

Trade mark: SOLE

FCC ID: 2AC7INSOLE-R150

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 30 Dec., 2015

Date of Test: 30 Dec., to 12 Jan., 2016

Date of report issued: 13 Jan., 2016

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.

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





2 Version

Version No.	Date	Description
00	12 Jan., 2016	Original

Tested by:

Steven Gu

Date: 12 Jan., 2016

Test Engineer

Reviewed by: Over Chen Date: 12 Jan., 2016

Project Engineer





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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		

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



5 General Information

5.1 Client Information

Applicant:	Interglobe Connection Corp
Address of Applicant:	7500 NW 25th Street 112 Miami, Florida 33122 USA

5.2 General Description of E.U.T.

Product Name:	Mobile Phone	
Model No.:	MINI R150	
Power supply:	Rechargeable Li-ion Battery DC3.7V-500mAh	
AC adapter :	Input:100-240V AC, 50/60Hz 0.15A Output:5V DC MAX 500mA	

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			

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
NAKAMICHI	Bluetooth earphone	T8	N/A	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



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 SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017					
2	2 BiConiLog Antenna SCHWARZBECK		VULB9163	CCIS0005	03-28-2015	03-28-2016					
3	Horn Antenna	Horn Antenna SCHWARZBECK		CCIS0006	03-28-2015	03-28-2016					
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016					
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016					
6	Spectrum analyzer 9k-30GHz Rohde & Schwarz		FSP30	CCIS0023	03-28-2015	03-28-2016					
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016					

Cond	Conducted Emission:									
Item	Test Equipment	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	08-23-2014	08-22-2017				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016				
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016				
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016				



6 Test results and Measurement Data

6.1 Conducted Emission

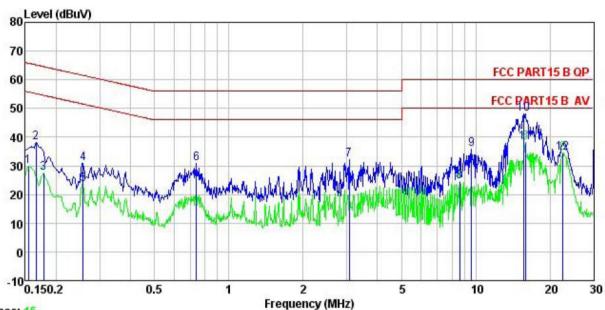
Test Requirement:	FCC Part 15 B Section 15.10)7					
Test Method:	ANSI C63.4:2009						
Test Frequency Range:	150kHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Lir	mit (dBµV)				
	, , ,	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	0.5-30 * Decreases with the logarith	60	50				
Test setup:	Reference Plan	· ·	•				
	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	Filter A	C power				
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.) bedance for the mea e also connected to ohm/50uH coupling s to the block diagra e checked for maxim and the maximum en d all of the interface	asuring equipment. the main power through impedance with 50ohm am of the test setup and mum conducted hission, the relative cables must be changed				
Test environment:	Temp.: 23 °C Hun	nid.: 56%	Press.: 101kPa				
Measurement Record:			Uncertainty: ±3.28dB				
Test Instruments:	Refer to section 5.7 for detail	ls					
	Defer to coetion 5 2 for detail	lo					
Test mode:	Refer to section 5.3 for detail	IS .					





Measurement data:

Line:



Trace: 15

: CCIS Shielding Room : FCC PART15 B QP LISN LINE Site Condition

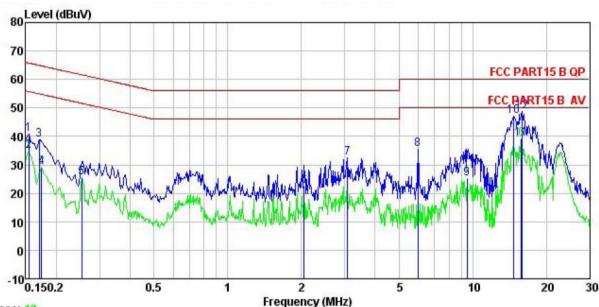
EUT : Mobile Phone Model : MINI R150
Test Mode : PC mode
Power Rating : AC120/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: steven Remark :

temark									
	Fred	Read	LISN Factor	Cable Loss		Limit Line	Over	Remark	
	rred	rever	ractor	LUSS	rever	Line	LIMIT	Kemark	
10000	MHz	dBu∀	₫B	₫B	dBu∜	dBu∜	₫B		-
1	0.154	18.97	0.27	10.78	30.02	55.78	-25.76	Average	
2	0.166	27.06	0.27	10.77	38.10	65.16	-27.06	QP	
3	0.178	16.34	0.28	10.77	27.39	54.59	-27.20	Average	
4	0.258	19.92	0.27	10.75	30.94	61.51	-30.57	QP	
1 2 3 4 5 6 7 8 9	0.258	12.66	0.27	10.75	23.68	51.51	-27.83	Average	
6	0.739	19.79	0.22	10.79	30.80	56.00	-25.20	QP	
7	3.074	21.10	0.27	10.92	32.29	56.00	-23.71	QP	
8	8.592	13.40	0.31	10.88	24.59	50.00	-25.41	Average	
9	9.603	24.67	0.31	10.92	35.90	60.00	-24.10	QP	
10	15.635	36.89	0.32	10.91	48.12	60.00	-11.88	QP	
11	15.885	26.79	0.32	10.91	38.02	50.00	-11.98	Average	
12	22.535	23.09	0.44	10.89	34.42			Average	



Neutral:



Trace: 13

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

EUT : Mobile Phone Model : MINI R150 Test Mode : PC mode

Power Rating: AC120/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: steven

Remark

	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBu∜	dB	₫B	dBu₹	dBu∀	<u>dB</u>	
1	0.154	29.82	0.25	10.78	40.85	65.78	-24.93	QP
2	0.154	23.94	0.25	10.78	34.97	55.78	-20.81	Average
3	0.170	27.79	0.25	10.77	38.81	64.94	-26.13	QP
2 3 4 5 6 7 8 9	0.174	18.00	0.25	10.77	29.02	54.77	-25.75	Average
5	0.253	14.46	0.26	10.75	25.47	51.64	-26.17	Average
6	2.055	11.25	0.29	10.96	22.50	46.00	-23.50	Average
7	3.090	21.19	0.29	10.92	32.40	56.00	-23.60	QP
8	5.993	24.37	0.27	10.82	35.46	60.00	-24.54	QP
9	9.502	13.88	0.25	10.92	25.05	50.00	-24.95	Average
10	14.750	36.00	0.25	10.90	47.15	60.00	-12.85	QP
11	15.801	28.11	0.25	10.91	39.27	50.00	-10.73	Average
12	15.970	37.51	0.25	10.91	48.67	60.00	-11.33	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.





6.2 Radiated Emission

0.2 Radiated Ellission								
Test Requirement:	FCC Part 15 B Section 15.109							
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Chan	nber)		
Receiver setup:	Frequency Detector RBW VBW Remai							
·	30MHz-1GHz						Quasi-peak Value	
	Above 1GHz	Pea RM		1MHz	3MF		Peak Value	
Limit:	Frequenc			1MHz (dBuV/m @		12	Average Value Remark	
Lilliu.	30MHz-88M		LIIIII	40.0	<i>(</i> 3111)	(Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
	216MHz-960			46.0			Quasi-peak Value	
	960MHz-1G			54.0			Quasi-peak Value	
				54.0			Average Value	
	Above 1GI	Ηz		74.0			Peak Value	
Test setup:	Below 1GHz				Antenna	_		
	Search Antenna Tum 0.8m 1m RF Test Receiver Ground Plane							
	Above 1GHz							
	SOCM SOCM	E EUT	G Test Recei	Horn Anlenna Antenna Tower Ground Reference Plane t Receiver Amplier Controller				





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.							
	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.							
Test environment:	Temp.: 25 °C Humid.: 55% Press.: 1 01kPa							
Measurement Record:	Uncertainty: ±4.88dB							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

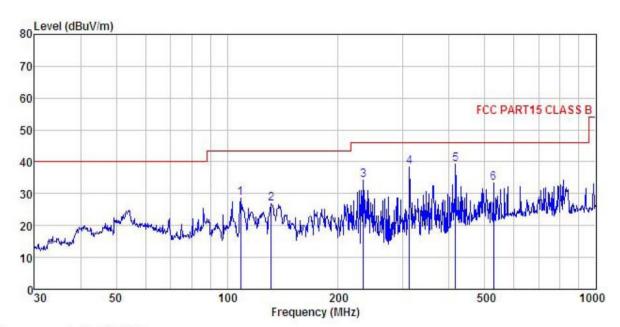




Measurement Data

Below 1GHz

Horizontal:



Site

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

EUT : Mobile Phone Model : MINI R150 Test mode : PC Mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: steven

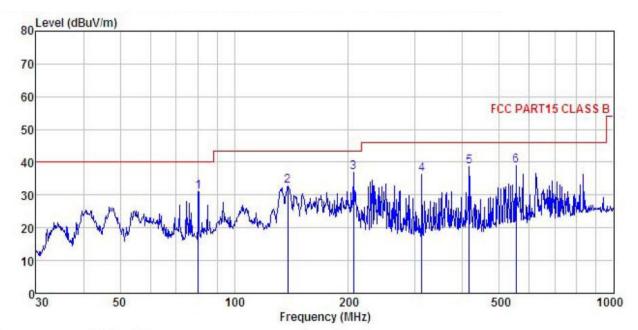
REMARK

Freq							Over Limit	Remark
MHz	dBu∜		₫B	dB	$\overline{dBuV/m}$	dBuV/m	dB	
108.647	44.60	12.39	1.03	29.47	28.55	43.50	-14.95	QP
131.758	46.18	8.82	1.21	29.32	26.89	43.50	-16.61	QP
234.168	49.59	11.83	1.55	28.63	34.34	46.00	-11.66	QP
312.179	51.70	13.22	1.81	28.48	38.25	46.00	-7.75	QP
416.179	50.60	15.39	2.16	28.81	39.34	46.00	-6.66	QP
528.246	42.72	17.15	2.48	29.04	33.31	46.00	-12.69	QP
	MHz 108.647 131.758 234.168 312.179	Freq Level MHz dBuV 108.647 44.60 131.758 46.18 234.168 49.59 312.179 51.70 416.179 50.60	Freq Level Factor MHz dBuV dB/m 108.647 44.60 12.39 131.758 46.18 8.82 234.168 49.59 11.83 312.179 51.70 13.22 416.179 50.60 15.39	Freq Level Factor Loss MHz dBuV dB/m dB 108.647 44.60 12.39 1.03 131.758 46.18 8.82 1.21 234.168 49.59 11.83 1.55 312.179 51.70 13.22 1.81 416.179 50.60 15.39 2.16	Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 108.647 44.60 12.39 1.03 29.47 131.758 46.18 8.82 1.21 29.32 234.168 49.59 11.83 1.55 28.63 312.179 51.70 13.22 1.81 28.48 416.179 50.60 15.39 2.16 28.81	Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dB dBuV/m 108.647 44.60 12.39 1.03 29.47 28.55 131.758 46.18 8.82 1.21 29.32 26.89 234.168 49.59 11.83 1.55 28.63 34.34 312.179 51.70 13.22 1.81 28.48 38.25 416.179 50.60 15.39 2.16 28.81 39.34	Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m 108.647 44.60 12.39 1.03 29.47 28.55 43.50 131.758 46.18 8.82 1.21 29.32 26.89 43.50 234.168 49.59 11.83 1.55 28.63 34.34 46.00 312.179 51.70 13.22 1.81 28.48 38.25 46.00 416.179 50.60 15.39 2.16 28.81 39.34 46.00	Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 108.647 44.60 12.39 1.03 29.47 28.55 43.50 -14.95 131.758 46.18 8.82 1.21 29.32 26.89 43.50 -16.61 234.168 49.59 11.83 1.55 28.63 34.34 46.00 -11.66 312.179 51.70 13.22 1.81 28.48 38.25 46.00 -7.75 416.179 50.60 15.39 2.16 28.81 39.34 46.00 -6.66





Vertical:



Site

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

EUT : Mobile Phone Model : MINI R150 Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5 C Huni:55%

Test Engineer: steven

REMARK

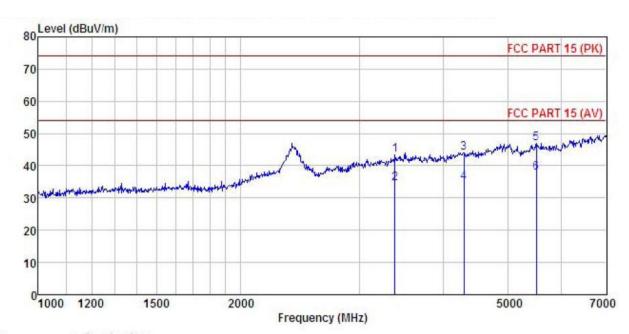
Freq							Over Limit	Remark
MHz	dBu∀	dB/m	<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
80.362	51.19	8.69	0.85	29.64	31.09	40.00	-8.91	QP
138.387	52.41	8.30	1.25	29.28	32.68	43.50	-10.82	QP
206.398	53.49	10.77	1.41	28.79	36.88	43.50	-6.62	QP
312.179	49.80	13.22	1.81	28.48	36.35	46.00	-9.65	QP
416.179	49.90	15.39	2.16	28.81	38.64	46.00	-7.36	QP
552.883	47.83	17.62	2.54	29.09	38.90	46.00	-7.10	QP
	MHz 80.362 138.387 206.398 312.179 416.179	MHz dBuV 80.362 51.19 138.387 52.41 206.398 53.49 312.179 49.80 416.179 49.90	Freq Level Factor MHz dBuV dB/m 80.362 51.19 8.69 138.387 52.41 8.30 206.398 53.49 10.77 312.179 49.80 13.22 416.179 49.90 15.39	Freq Level Factor Loss MHz dBuV dB/m dB 80.362 51.19 8.69 0.85 138.387 52.41 8.30 1.25 206.398 53.49 10.77 1.41 312.179 49.80 13.22 1.81 416.179 49.90 15.39 2.16	MHz dBuV dB/m dB dB 80.362 51.19 8.69 0.85 29.64 138.387 52.41 8.30 1.25 29.28 206.398 53.49 10.77 1.41 28.79 312.179 49.80 13.22 1.81 28.48 416.179 49.90 15.39 2.16 28.81	Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dB dBuV/m 80.362 51.19 8.69 0.85 29.64 31.09 138.387 52.41 8.30 1.25 29.28 32.68 206.398 53.49 10.77 1.41 28.79 36.88 312.179 49.80 13.22 1.81 28.48 36.35 416.179 49.90 15.39 2.16 28.81 38.64	MHz dBuV dB/m dB dB dBuV/m dBuV/m 80.362 51.19 8.69 0.85 29.64 31.09 40.00 138.387 52.41 8.30 1.25 29.28 32.68 43.50 206.398 53.49 10.77 1.41 28.79 36.88 43.50 312.179 49.80 13.22 1.81 28.48 36.35 46.00 416.179 49.90 15.39 2.16 28.81 38.64 46.00	MHz dBuV dB/m dB dB dBuV/m dBuV/m <t< td=""></t<>





Above 1GHz

Horizontal:



Site

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

: Mobile Phone

Model : MINI R150

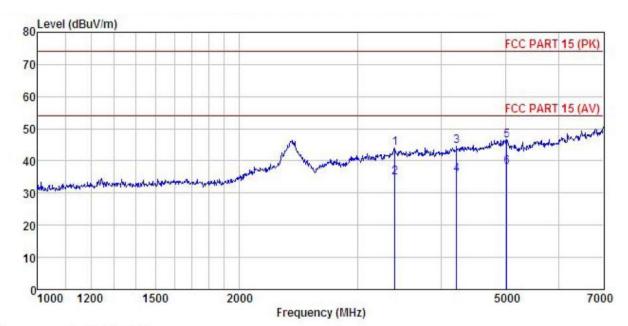
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: steven
REMARK :

		Pood	Antenna	Cabla	Dynama		Limit	Over	
	Freq		Factor		Preamp Factor			Limit	Remark
-	MHz	dBu∜	<u>dB</u> /m	₫B	dB	dBuV/m	dBu√/m	<u>dB</u>	
1	3394.076	45.31	28.46	8.59	38.84	43.52	74.00	-30.48	Peak
2	3394.076	36.24	28.46	8.59	38.84	34.45	54.00	-19.55	Average
3	4295.151	44.57	30.38	9.98	40.86	44.07	74.00	-29.93	Peak
4	4295.151	35.47	30.38	9.98	40.86	34.97	54.00	-19.03	Average
5	5509.992	43.71	32.04	11.37	40.26	46.86	74.00	-27.14	Peak
6	5509.992	34.59	32.04	11.37	40.26	37.74	54.00	-16.26	Average





Vertical:



Site

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

EUT : Mobile Phone Model : MINI R150 Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: steven REMARK :

THEFT									
	Freq		Antenna Factor				Limit Line	Over Limit	
-	MHz	dBu₹	$\overline{dB/m}$	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>	
1	3413.948	45.91	28.53	8.63	38.96	44.11	74.00	-29.89	Peak
2	3413.948	36.54	28.53	8.63	38.96	34.74	54.00	-19.26	Average
3	4220.584	45.45	30.24	9.89	40.94	44.64	74.00	-29.36	Peak
4	4220.584	36.57	30.24	9.89	40.94	35.76	54.00	-18.24	Average
5	5018.643	43.77	31.85	10.80	39.99			-27.57	
6	5018, 643	35, 47	31.85	10.80	39, 99	38, 13	54,00	-15.87	Average