# **FCC REPORT**

**Applicant:** Canales Electronicos De Ventas SAS

Address of Applicant: Cra 51 # 9C Sur-85 Bodega 403 Medellin, Colombia

# **Equipment Under Test (EUT)**

Product Name: Mobile Phone

Model No.: Kingo T 4.5

FCC ID: 2ACHQ-KINGOT45

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 05 Jun., 2014

**Date of Test:** 06 Jun., to 18 Jun., 2014

Date of report issued: 19 Jun., 2014

Test Result: Pass \*

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

#### 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.



# 2 Version

Version No.	Date	Description
00	19 Jun., 2014	Original

Prepared by:

Date: 19 Jun., 2014

Reviewed by: Date: 19 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:	Canales Electronicos De Ventas SAS
Address of Applicant:	Cra 51 # 9C Sur-85 Bodega 403 Medellin, Colombia
Manufacturer :	Canales Electronicos De Ventas SAS
Address of Manufacturer:	Cra 51 # 9C Sur-85 Bodega 403 Medellin, Colombia

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

Product Name:	Mobile Phone
Model No.:	Kingo T 4.5
Power supply:	Rechargeable Li-ion Battery DC3.7V-1500mAh
AC adapter :	Input: AC 100-240V 50/60Hz 0.2A Output: DC 5V, 500mA

#### 5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case for Radiated Emission)
Playing mode	Keep the EUT in Playing mode(Worst case for Conducted Emission)
Charging+recording mode	Keep the EUT in Charging+recording 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	HP Printer		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: 0755-23118282 Fax: 0755-23116366



# 5.7 Test Instruments list

Radiated Emission:							
Item	Test Equipment	Manufacturer	acturer Model 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	July 09 2013	July 08 2014	
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 25 2013	June 24 2014	
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	June 25 2013	June 24 2014	
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	July 09 2013	July 08 2014	
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	June. 25 2013	June. 24 2014	
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	June. 25 2013	June. 24 2014	
20	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	June. 25 2013	June. 24 2014	

Conducted Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date			
110111	root Equipment	Mariaratarar	model No.	No.	(mm-dd-yy)	(mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	July 09 2013	July 08 2014			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	June 25 2013	June. 24 2014			
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2014	Mar. 31 2015			
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2014	Mar. 31 2015			



# 6 Test results and Measurement Data

#### 6.1 Conducted Emission

Test Requirement:	FCC Part15 B Section 15.107								
Test Method:	ANSI C63.4:2003	ANSI C63.4:2003							
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz							
Class / Severity:	Class B	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz	RBW=9kHz, VBW=30kHz							
Limit:	· ·	l imait /	4D\()						
	Frequency range (MHz)    Comparison								
	0.15-0.5	66 to 56*	Average 56 to 46*						
	0.5-5	56	46						
	0.5-30	60	50						
Test setup:	Reference Plane	e							
Test procedure	AUX 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 mediate provides a 500hm/50uH of (Please refers to the block diated as the provides of A.C. line are chorder to find the maximum emof the interface cables must be conducted measurement.	connected to the main pork(L.I.S.N.). The provide easuring equipment. So connected to the main coupling impedance with gram of the test setup are ecked for maximum condission, the relative positive changed according to A	ower through a line a 50ohm/50uH  power through a LISN 50ohm termination. nd photographs). ducted interference. In ons of equipment and all ANSI C63.4: 2003 on						
Test environment:	Temp.: 23 °C Humio	d.: 56% Pre	ess.: 1 01kPa						
Measurement Record:			Uncertainty: 3.28dB						
Test Instruments:	Refer to section 5.7 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Pass								

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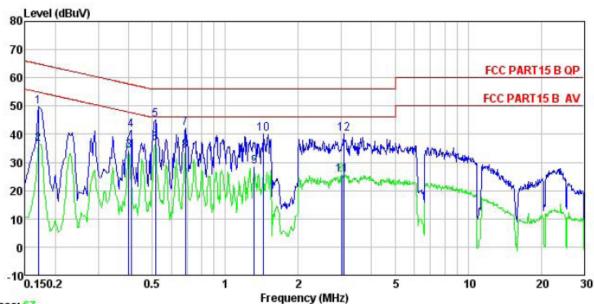
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#### Measurement data:

#### Playing mode

Line:



Trace: 67

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

Job. no : 411RF EUT : Mobile Phone Model : Kingo T 4.5 Test Mode : Palying mode

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

Test Engineer: Carey

Remark

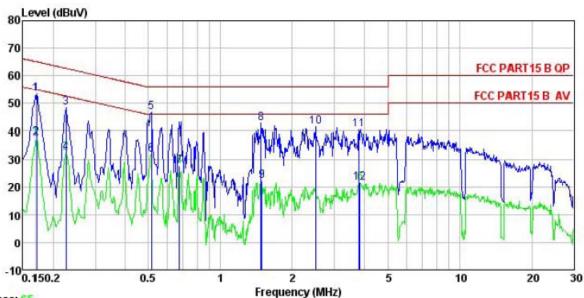
Kemark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark	
-	MHz	dBu∀	<u>d</u> B	dB	dBu₹	dBu∜	dB		-
1	0.170	38.67	0.27	10.77	49.71	64.94	-15.23	QP	
2	0.170	25.42	0.27	10.77	36.46	54.94	-18.48	Average	
3	0.400	23.24	0.28	10.72	34.24	47.86	-13.62	Average	
1 2 3 4 5 6 7 8 9	0.410	30.41	0.28	10.72	41.41	57.64	-16.23	QP	
5	0.516	33.95	0.28	10.76	44.99	56.00	-11.01	QP	
6	0.516	25.93	0.28	10.76	36.97	46.00	-9.03	Average	
7	0.686	31.06	0.22	10.77	42.05	56.00	-13.95	QP	
8	0.686	23.32	0.22	10.77	34.31	46.00	-11.69	Average	
9	1.317	17.40	0.25	10.91	28.56	46.00	-17.44	Average	
10	1.441	28.99	0.26	10.92	40.17	56.00	-15.83	QP	
11	3.025	14.32	0.27	10.92	25.51	46.00	-20.49	Average	
12	3.074	28.81	0.27	10.92	40.00	56.00	-16.00	QP	

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#### Neutral:



Trace: 65

Site : CCIS Shielding Room

: FCC PART15 B QP LISM NEUTRAL Condition

Job. no : 411RF EUT

: Mobile Phone Model : Kingo T 4.5 Test Mode : Palying mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Carey
Remark

Remark

: Freq			Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBu∜	d₿	₫B	dBu₹	dBu∀	dB	
0.170	42.33	0.25	10.77	53.35	64.94	-11.59	QP
0.170	26.41	0.25	10.77	37.43	54.94	-17.51	Average
0.226	37.30	0.25	10.75	48.30	62.61	-14.31	QP
0.226	21.57	0.25	10.75	32.57	52.61	-20.04	Average
0.516	35.88	0.28	10.76	46.92	56.00	-9.08	QP
0.516	20.65	0.28	10.76	31.69			
	16.55	0.19	10.77		46.00	-18.49	Average
1.480	31.48	0.26	10.92	42.66	56.00	-13.34	QP
1.487	10.97	0.26	10.92	22.15	46.00	-23.85	Average
	30.18		10.94		56.00	-14.59	QP
3.779	29.41	0.29	10.90		56.00	-15.40	QP
3.820	10.50	0.29	10.90	21.69	46.00	-24.31	Average
	MHz 0.170 0.170 0.226 0.226 0.516 0.516 0.675 1.480 1.487 2.500 3.779	MHz dBuV  0.170 42.33 0.170 26.41 0.226 37.30 0.226 21.57 0.516 35.88 0.516 20.65 0.675 16.55 1.480 31.48 1.487 10.97 2.500 30.18 3.779 29.41	MHz         dBuV         dB           0.170         42.33         0.25           0.170         26.41         0.25           0.26         37.30         0.25           0.26         21.57         0.25           0.516         35.88         0.28           0.516         20.65         0.28           0.675         16.55         0.19           1.480         31.48         0.26           1.487         10.97         0.26           2.500         30.18         0.29           3.779         29.41         0.29	MHz         dBuV         dB         dB           0.170         42.33         0.25         10.77           0.170         26.41         0.25         10.77           0.226         37.30         0.25         10.75           0.226         21.57         0.25         10.75           0.516         35.88         0.28         10.76           0.516         20.65         0.28         10.76           0.675         16.55         0.19         10.77           1.480         31.48         0.26         10.92           1.487         10.97         0.26         10.92           2.500         30.18         0.29         10.94           3.779         29.41         0.29         10.90	MHz         dBuV         dB         dB         dBuV           0.170         42.33         0.25         10.77         53.35           0.170         26.41         0.25         10.77         37.43           0.226         37.30         0.25         10.75         48.30           0.226         21.57         0.25         10.75         32.57           0.516         35.88         0.28         10.76         46.92           0.516         20.65         0.28         10.76         31.69           0.675         16.55         0.19         10.77         27.51           1.480         31.48         0.26         10.92         42.66           1.487         10.97         0.26         10.92         22.15           2.500         30.18         0.29         10.94         41.41           3.779         29.41         0.29         10.90         40.60	MHz         dBuV         dB         dB         dBuV         dBuV           0.170         42.33         0.25         10.77         53.35         64.94           0.170         26.41         0.25         10.77         37.43         54.94           0.226         37.30         0.25         10.75         48.30         62.61           0.226         21.57         0.25         10.75         32.57         52.61           0.516         35.88         0.28         10.76         46.92         56.00           0.516         20.65         0.28         10.76         46.92         56.00           0.575         16.55         0.19         10.77         27.51         46.00           0.675         16.55         0.19         10.77         27.51         46.00           1.480         31.48         0.26         10.92         42.66         56.00           1.487         10.97         0.26         10.92         22.15         46.00           2.500         30.18         0.29         10.94         41.41         56.00           3.779         29.41         0.29         10.90         40.60         56.00	MHz         dBuV         dB         dB         dBuV         dBuV         dB           0.170         42.33         0.25         10.77         53.35         64.94         -11.59           0.170         26.41         0.25         10.77         37.43         54.94         -17.51           0.226         37.30         0.25         10.75         48.30         62.61         -14.31           0.226         21.57         0.25         10.75         32.57         52.61         -20.04           0.516         35.88         0.28         10.76         31.69         46.00         -9.08           0.516         20.65         0.28         10.76         31.69         46.00         -14.31           0.675         16.55         0.19         10.77         27.51         46.00         -18.49           1.480         31.48         0.26         10.92         42.66         56.00         -13.34           1.487         10.97         0.26         10.92         22.15         46.00         -23.85           2.500         30.18         0.29         10.94         41.41         56.00         -14.59           3.779         29.41         0.29

#### 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

0.2 Radiated Lillission								
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	120 kHz	300KHz	Quasi-peak Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
	7 DOVE TOTIZ	Peak	1MHz 10Hz		Average Value			
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Remark			
	30MHz-8	88MHz	40.0		Quasi-peak Value			
	88MHz-2	16MHz	43.5	5	Quasi-peak Value			
	216MHz-9		46.0		Quasi-peak Value			
	960MHz-	-1GHz	54.0		Quasi-peak Value			
	Above 1	IGHz	54.0		Average Value			
			74.0	)	Peak Value			
	Ground Plane –  Above 1GHz		s	Antenna Tower  Search Antenna  RF Test Receiver  Antenna Tower  Horn Antenna  pectrum  nnalyzer				



Test Procedure:	<ol> <li>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.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> </ol>							
	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.							
	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							

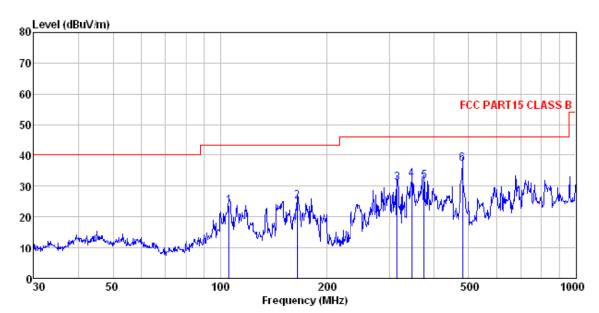


#### **Measurement Data**

#### Pc mode

Below 1GHz

Horizontal:



Site

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

Pro : 411RF

: Mobile Phone : Kingo T4.5 : PC MODE EUT Model Test mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C

Huni:55%

Test Engineer: Carey REMARK :

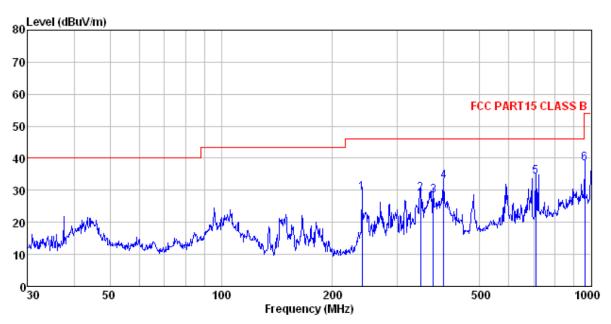
	•								
	Freq		Antenna Factor						Remark
_	MHz	dBu∜	dB/m	B	dB	dBuV/m	dBuV/m	B	
1	106.013	39.44	12.59	1.01	29.48	23.56	43.50	-19.94	QP
2	164.908	44.04	8.82	1.34	29.09	25.11	43.50	-18.39	QP
3	314.377	44.41	13.26	1.82	28.48	31.01	46.00	-14.99	QP
4	345.595	44.48	14.20	1.92	28.55	32.05	46.00	-13.95	QP
5	374.623	43.81	14.54	2.03	28.67	31.71	46.00	-14.29	QP
6	480.528	47.71	16.07	2.35	28.92	37.21	46.00	-8.79	QP

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Vertical:



Site

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

411RF Pro EUT : Mobile Phone
Model : Kingo T4.5
Test mode : PC MODE
Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55%

Test Engineer: Carey REMARK :

123456

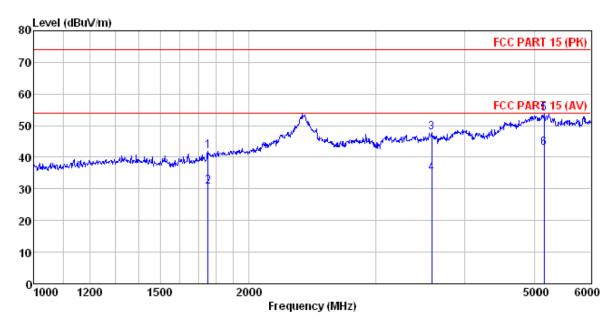
MNN	:								
		Read#	Intenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	•								
	MHz	dBuV	dB/m	B	ab.	dBuV/m	dBuV/m	dB	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ша.	ш, ж			ша,, ж	ши, ж		
	239.987	44.03	12.09	1.58	28.59	20 11	46.00	-16.89	OP
	345.595	41.48	14.20	1.92	28.55	29.05	46.00	-16.95	QP
	374.623	40.57	14.54	2.03	28.67	28.47	46.00	-17.53	QP
	399.030	44.26	15.06	2.12	28.77	32.67	46.00	-13.33	QP
	709.182	40.95	18.91	2.94	28.63	34.17	46.00	-11.83	QΡ
	962.162	41.07	21.49	3.47	27.65	38.38	54.00	-15.62	QΡ
									~-

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Above 1GHz

Horizontal:



Site

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

: 411RF Pro

EUT : Mobile Phone Model : Kingo T4.5 Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25 C Huni:55% Atmos:101Kpa

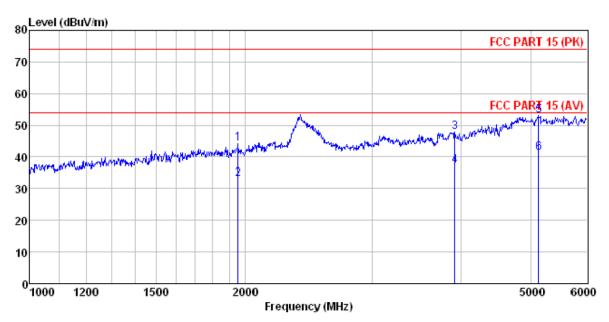
Test Engineer: Carey

Remark

	Freq			Cable Preamp Loss Factor Le					
	MHz	dBu∀	dB/m		B	$\overline{dB} \overline{uV}/\overline{m}$	dBuV/m	dB	
1 2	1752.110 1752.110			4.52	40.98 40.98	30.76	54.00		Average
3 4	3594.181 3594.181	39.89	29.16	6.10 6.10	40.33		54.00		Average
5 6	5152.386 5152.386	52.60 41.54			40.06 40.06			-20.26 -11.32	reak Average



Vertical:



Site

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

Pro : 411RF EUT : Mobile Phone

: Aingo T4.5
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25°C Huni:55% Atmos:101Kpa
Test Engineer: Carey
Remark :

marı									
	F		Antenna					Over	D
	rreq	rever	Factor	ross	ractor	rever	Line	Limit	Kemark
-	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1950.969	54.41	25.93		40.88			-29.75	
2	1950.969	43.08	25.93						Average
3	3916.979	51.39	29.77	7.59	40.94	47.81	74.00	-26.19	Peak
4	3916.979	40.85	29.77						Average
5	5133.956	51.98	32.08	9.13	40.05	53.14	74.00	-20.86	Peak
6	5133.956	40.26	32.08	9.13	40.05	41.42	54.00	-12.58	Average