Report No: CCIS15120102004

FCC REPORT

Applicant: Aqua trading (shenzhen) limited

Address of Applicant: No.22D, NEO Building Block B, No.6011. Shennan avenue

Futian District, Shenzhen China

Equipment Under Test (EUT)

Product Name: Smartphone

Model No.: EK4

Trade mark: AKUA

FCC ID: 2AGE2-EK4

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 31 Dec., 2015

Date of Test: 31 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.





Version

Version No.	Date	Description
00	13 Jan., 2016	Original

Cavey Chen
Test Engineer Tested by: Date: 13 Jan., 2016

Reviewed by: Date: 13 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:	Aqua trading (shenzhen) limited
Address of Applicant:	No.22D, NEO Building Block B, No.6011. Shennan avenue Futian District, Shenzhen China
Manufacturer:	Aqua trading (shenzhen) limited
Address of Manufacturer:	No.22D, NEO Building Block B, No.6011. Shennan avenue Futian District, Shenzhen China
Factory:	ShenZhen IDWELL Technology CO., Ltd
Address of Factory:	Building A2, Zhengfeng Industrial Park, Fengtang Road, Fuyong, Baoan, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Smartphone
Model No.:	EK4
Power supply:	Rechargeable Li-ion Battery DC3.8V-1400mAh
	Model: aifeng4S
AC adapter :	Input:100-240V AC,50/60Hz 0.15A
	Output:5V DC MAX 1000mA

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 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.



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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	DELL KEYBOARD		N/A	DoC
DELL	DELL MOUSE		N/A	DoC
HP	HP Printer		05257893	DoC
MERCURY	MERCURY Wireless router		12922104015	FCC ID
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



Report No: CCIS15120102004

5.7 Test Instruments list

Radia	Radiated Emission:									
Item Test Equipment		Test Equipment Manufacturer		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	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-28-2015	03-28-2016				
3	Horn Antenna	SCHWARZBECK	BBHA9120D	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	7 EMI Test Receiver Rohde & Schwarz		ESRP7	CCIS0167	03-28-2015	03-28-2016				

Cond	Conducted Emission:										
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date					
iteiii	rest Equipment	Wallulacturel	Wodel No.	No.	(mm-dd-yy)	(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 & Schwi		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

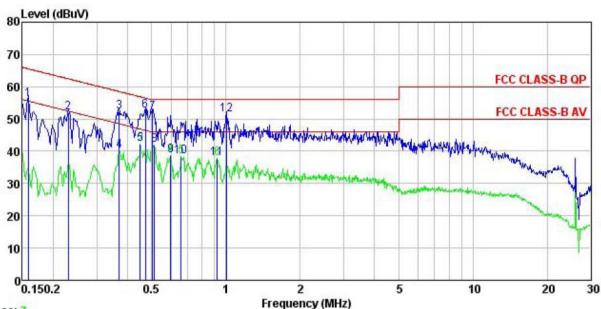
Test Requirement:	FCC Part 15 B Section 15.10)7					
Test Method:	ANSI C63.4:2009						
Test Frequency Range:	150kHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Lir	mit (dBµV)				
	, , ,	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	0.5-30 * Decreases with the logarith	60	50				
Test setup:	Reference Plan	· ·	•				
Taskanasakan	AUX Equipment Test table/Insulation plane Remark E U.T: Equipment Under Test LISN 40cm 80cl E.U.T Test table/Insulation plane	Filter — A EMI Receiver	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 mease also connected to ohm/50uH coupling as to the block diagrate checked for maximal the maximum end all of the interface	. The provide a 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					
Test mode:	Refer to section 5.3 for detail	ls					
Test results:	Pass						





Measurement data:

Line:



Trace: 7

: CCIS Shielding Room : FCC CLASS-B QP LISN LINE Site Condition

Pro EUT : 1020RF : Smartphone Model : EK4 Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

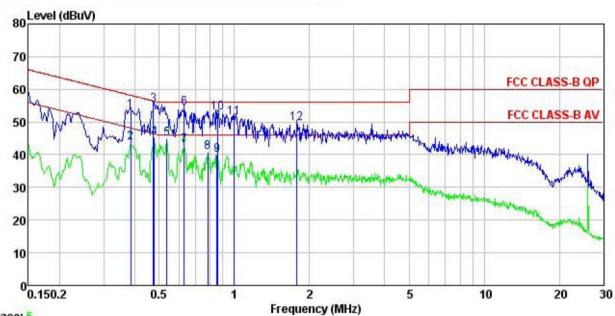
Test Engineer: Carey Remark :

Kemark								
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>dB</u>	dB	dBu₹	dBu∜	dB	
1	0.158	45.08	0.27	10.78	56.13	65.56	-9.43	QP
2	0.230	40.82	0.27	10.75	51.84	62.44	-10.60	QP
3	0.369	41.39	0.27	10.73	52.39	58.52	-6.13	QP
1 2 3 4 5 6 7 8 9	0.369	29.06	0.27	10.73	40.06	48.52	-8.46	Average
5	0.449	31.05	0.29	10.74	42.08	46.89	-4.81	Average
6	0.471	41.42	0.29	10.75	52.46	56.49	-4.03	QP
7	0.505	40.94	0.29	10.76	51.99	56.00	-4.01	QP
8	0.513	30.74	0.28	10.76	41.78	46.00	-4.22	Average
9	0.598	27.56	0.25	10.77	38.58	46.00	-7.42	Average
10	0.658	27.31	0.23	10.77	38.31	46.00	-7.69	Average
11	0.923	26.84	0.24	10.85	37.93	46.00	-8.07	Average
12	1.005	40.16	0.25	10.87	51.28	56.00	-4.72	QP





Neutral:



Trace: 5 Site

: CCIS Shielding Room : FCC CLASS-B QP LISN NEUTRAL Condition

Pro 1020RF EUT : Smartphone Model : EK4
Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey Remark

:	Road	LICH	Coblo		Limit	Orror	
Freq			Loss	Level	Line		Remark
MHz	dBu∜	d₿	₫B	dBu₹	dBu₹	dB	
0.385	42.35	0.25	10.72	53.32	58.17	-4.85	QP
0.385	32.59	0.25	10.72	43.56	48.17	-4.61	Average
0.474	44.23	0.28	10.75	55.26	56.45	-1.19	QP
0.479	34.12	0.28	10.75	45.15	46.36	-1.21	Average
0.538	33.92	0.27	10.76	44.95	46.00	-1.05	Average
0.630	43.44	0.21	10.77	54.42	56.00	-1.58	QP
0.630	31.82	0.21	10.77	42.80	46.00	-3.20	Average
0.783	29.79	0.19	10.81	40.79	46.00	-5.21	Average
0.853	28.97	0.20	10.83	40.00	46.00	-6.00	Average
0.857	41.82	0.20	10.83	52.85	56.00	-3.15	QP
1.000	40.36	0.22	10.87	51.45	56.00	-4.55	QP
1.781	38.23	0.28	10.95	49.46	56.00	-6.54	QP
	Freq 0.385 0.385 0.474 0.479 0.538 0.630 0.630 0.783 0.853 0.857 1.000	Read Level MHz dBuV 0.385 42.35 0.385 32.59 0.474 44.23 0.479 34.12 0.538 33.92 0.630 43.44 0.630 31.82 0.783 29.79 0.853 28.97 0.857 41.82 1.000 40.36	Read LISN Level Factor MHz dBuV dB 0.385 42.35 0.25 0.385 32.59 0.25 0.474 44.23 0.28 0.479 34.12 0.28 0.538 33.92 0.27 0.630 43.44 0.21 0.630 31.82 0.21 0.783 29.79 0.19 0.853 28.97 0.20 0.857 41.82 0.20 1.000 40.36 0.22	Read LISN Cable Freq Level Factor Loss MHz dBuV dB dB 0.385 42.35 0.25 10.72 0.385 32.59 0.25 10.72 0.474 44.23 0.28 10.75 0.479 34.12 0.28 10.75 0.538 33.92 0.27 10.76 0.630 43.44 0.21 10.77 0.630 31.82 0.21 10.77 0.783 29.79 0.19 10.81 0.853 28.97 0.20 10.83 0.857 41.82 0.20 10.83 1.000 40.36 0.22 10.87	Read LISN Cable Freq Level Factor Loss Level MHz dBuV dB dB dB dBuV 0.385 42.35 0.25 10.72 53.32 0.385 32.59 0.25 10.72 43.56 0.474 44.23 0.28 10.75 55.26 0.479 34.12 0.28 10.75 45.15 0.538 33.92 0.27 10.76 44.95 0.630 43.44 0.21 10.77 54.42 0.630 31.82 0.21 10.77 42.80 0.783 29.79 0.19 10.81 40.79 0.853 28.97 0.20 10.83 40.00 0.857 41.82 0.20 10.83 52.85 1.000 40.36 0.22 10.87 51.45	Read LISN Cable Limit Limit Line MHz dBuV dB dB dBuV dBuV 0.385 42.35 0.25 10.72 53.32 58.17 0.385 32.59 0.25 10.72 43.56 48.17 0.474 44.23 0.28 10.75 55.26 56.45 0.479 34.12 0.28 10.75 45.15 46.36 0.538 33.92 0.27 10.76 44.95 46.00 0.630 43.44 0.21 10.77 54.42 56.00 0.630 31.82 0.21 10.77 42.80 46.00 0.783 29.79 0.19 10.81 40.79 46.00 0.853 28.97 0.20 10.83 40.00 46.00 0.857 41.82 0.20 10.83 52.85 56.00 1.000 40.36 0.22 10.87 51.45 56.00	Read LISN Cable Freq Level Factor Loss Level Limit Limit Over Limit MHz dBuV dB dB dBuV dBuV dB 0.385 42.35 0.25 10.72 53.32 58.17 -4.85 0.385 32.59 0.25 10.72 43.56 48.17 -4.61 0.474 44.23 0.28 10.75 55.26 56.45 -1.19 0.479 34.12 0.28 10.75 45.15 46.36 -1.21 0.538 33.92 0.27 10.76 44.95 46.00 -1.05 0.630 43.44 0.21 10.77 54.42 56.00 -1.58 0.630 31.82 0.21 10.77 42.80 46.00 -5.21 0.853 28.97 0.20 10.83 40.00 46.00 -5.21 0.857 41.82 0.20 10.83 52.85 56.00 -3.15 1.000 40.36 0.22 10.87 51.45

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	Dete	ctor	RBW	VB۱	N Remark		
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value	
	Above 1GHz	Above 1GHz Peak RMS		1MHz	3MF			
Limit:	Frequenc			1MHz (dBuV/m @		dz 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	∃z		74.0			Peak Value	
Test setup:	Below 1GHz				Antenna	_		
	Search Antenna RF Test Receiver Tum Table A Ground Plane							
	Above 1GHz							
	SOCM SOCM	E EUT	G Test Recei	3m round Reference Plane	Horn Antenn	Contro	intenna Tower	





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							

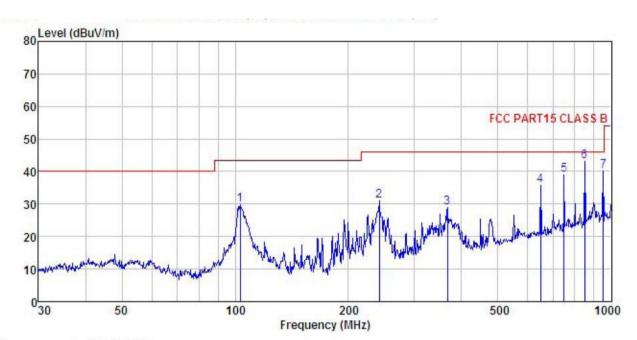




Measurement Data

Below 1GHz

Horizontal:



Site

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

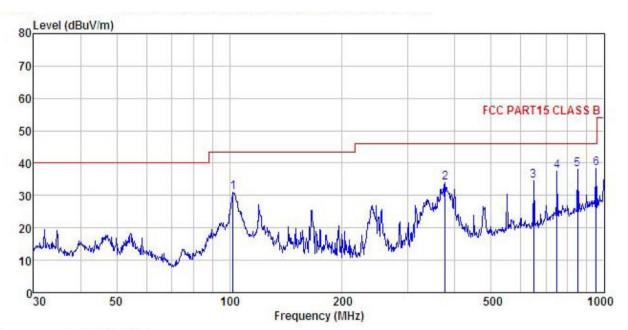
Job No. : 1020RF : Smartphone : EK4 EUT Model Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey

:								
Freq						Limit Line	Over Limit	Remark
MHz	dBu∜	<u>dB</u> /m	₫B	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
103.080	45.41	12.87	0.99	29.51	29.76	43.50	-13.74	QP
241.676	45.95	12.09	1.58	28.59	31.03	46.00	-14.97	QP
366.823	40.99	14.48	2.00	28.64	28.83	46.00	-17.17	QP
649.660	42.99	18.64	2.79	28.78	35.64	46.00	-10.36	QP
750.108	44.91	19.43	3.04	28.48	38.90	46.00	-7.10	QP
851.035	47.32	20.60	3.25	28.00	43.17	46.00	-2.83	QP
952.094	42.83	21.43	3.46	27.71	40.01	46.00	-5.99	QP
	Freq MHz 103.080 241.676 366.823 649.660 750.108 851.035	Read. Freq Level MHz dBuV 103.080 45.41 241.676 45.95 366.823 40.99 649.660 42.99 750.108 44.91 851.035 47.32	ReadAntenna Freq Level Factor MHz dBuV dB/m 103.080 45.41 12.87 241.676 45.95 12.09 366.823 40.99 14.48 649.660 42.99 18.64 750.108 44.91 19.43 851.035 47.32 20.60	ReadAntenna Cable Freq Level Factor Loss MHz dBuV dB/m dB 103.080 45.41 12.87 0.99 241.676 45.95 12.09 1.58 366.823 40.99 14.48 2.00 649.660 42.99 18.64 2.79 750.108 44.91 19.43 3.04 851.035 47.32 20.60 3.25	ReadAntenna Cable Preamp Loss Factor MHz dBuV dB/m dB dB 103.080 45.41 12.87 0.99 29.51 241.676 45.95 12.09 1.58 28.59 366.823 40.99 14.48 2.00 28.64 649.660 42.99 18.64 2.79 28.78 750.108 44.91 19.43 3.04 28.48 851.035 47.32 20.60 3.25 28.00	ReadAntenna Cable Preamp Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 103.080 45.41 12.87 0.99 29.51 29.76 241.676 45.95 12.09 1.58 28.59 31.03 366.823 40.99 14.48 2.00 28.64 28.83 649.660 42.99 18.64 2.79 28.78 35.64 750.108 44.91 19.43 3.04 28.48 38.90 851.035 47.32 20.60 3.25 28.00 43.17	ReadAntenna Cable Preamp Limit	ReadAntenna Cable Preamp Limit Over





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : 1020RF Condition

Job No. EUT Smartphone Model : EK4
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey

Re

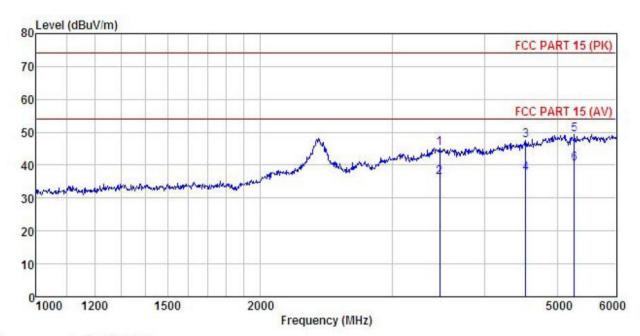
emark	: Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	dBu∜	dB/m	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>	
1	102.360	46.71	12.92	0.98	29.51	31.10	43.50	-12.40	QP
2	377.259	45.96	14.57	2.04	28.68	33.89	46.00	-12.11	QP
2	649.660	41.76	18.64	2.79	28.78	34.41	46.00	-11.59	QP
4	750.108	43.51	19.43	3.04	28.48	37.50	46.00	-8.50	QP
4 5	851.035	42.10	20.60	3.25	28.00	37.95	46.00	-8.05	QP
6	952.094	41.10	21.43	3.46	27.71	38.28	46.00	-7.72	QP





Above 1GHz

Horizontal:



Site

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

: 1020RF Job No. EUT : Smartphone Model : EK4 Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey

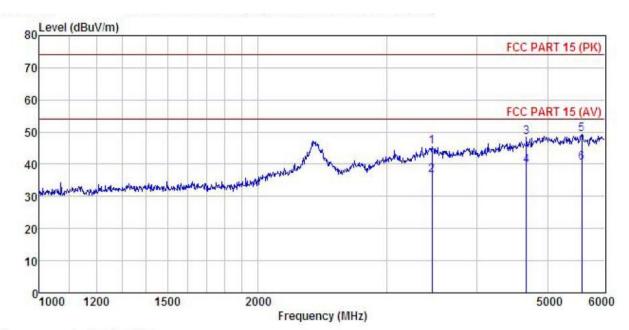
Rem

emari	K :								
	Freq		Antenna Factor		Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu∜	dB/m	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>	
1	3480.112	47.22	28.76	8.74	39.46	45.26	74.00	-28.74	Peak
2	3480.112	38.15	28.76	8.74	39.46	36.19	54.00	-17.81	Average
3	4536.905	47.03	30.81	10.27	40.62	47.49	74.00	-26.51	Peak
4	4536.905	37.13	30.81	10.27	40.62	37.59	54.00	-16.41	Average
5	5273.809 5273.809	46.59 37.79	31.71	11.10 11.10	40.13			-24.73 -13.53	Peak Average
									The second secon





Vertical:



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

: 1020RF Job No. EUT : Smartphone : EK4 Model Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey

123456

arl	ζ :									
	Free		Antenna Factor		Preamp Factor		Limit Line	Over	Remark	
	rred	Peact	ractor	LUSS	ractor	rever	LILIC	TIMIT	Remark	
Ē	MHz	dBu∀	dB/m	₫B	₫B	dBuV/m	dBuV/m	<u>dB</u>		-
	3467.664	47.23		8.72	AT 1700 TO 1700 TO 1	45.37		-28.63		
	3467.664	38.38	28.76	8.72	39.34	36.52	54.00	-17.48	Average	
3	4677.225	47.08	31.24	10.43	40.43	48.32	74.00	-25.68	Peak	
	4677.225	38.39	31.24	10.43	40.43	39.63	54.00	-14.37	Average	
i	5575.028	46.13	32.08	11.44	40.35	49.30		-24.70		
1	5575, 028	37, 13	32, 08	11.44	40, 35	40, 30	54,00	-13.70	Average	