

FCC REPORT

Applicant: AZUMI S.A

Address of Applicant: Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza,
Piso 16 of. 16-01, Marbella, Ciudad de Panamá City, Rep.
Panamá

Equipment Under Test (EUT)

Product Name: Mobile phone

Model No.: A35S

FCC ID: QRP-AZUMIA35S

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 28 Sep., 2015

Date of Test: 28 Sep., to 12 Oct., 2015

Date of report issued: 12 Oct., 2015

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.

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2 Version

Version No.	Date	Description
00	12 Oct., 2015	<p><i>This report was amended on the report CCIS14050033904 following FCC Class II Permissive Change Procedure.</i></p> <p><i>The differences as below: Remove the GPS function and electrodynamics induction, and the camera pixel was changed, and the Bluetooth/WIFI antenna location was changed. Base on the differences description, all data has been re-tested in this report.</i></p>

Tested by:**Date:**

12 Oct., 2015

Test Engineer**Reviewed by:****Date:**

12 Oct., 2015

Project Engineer

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4 Test Summary

Test Item	Section in CFR 47	Uncertainty	Result
Conducted Emission	Part 15.107	±3.28dB	Pass
Radiated Emission	Part 15.109	±4.88dB	Pass

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

5 General Information

5.1 Client Information

Applicant:	AZUMI S.A
Address of Applicant:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panamá City, Rep. Panamá
Manufacturer:	AZUMI (HK) Limited
Address of Manufacturer:	RM 2309, 23/F HO KING COMM CTR, 2-16 FAYUEN ST, MONGKOK KOWLOON, HONG KONG

5.2 General Description of E.U.T.

Product Name:	Mobile phone
Model No.:	A35S
Power supply:	Rechargeable Li-ion Battery DC3.8V,1450mAh
AC adapter :	Model: A35S Input:100-240V AC,50/60Hz 0.15A Output:5.0V DC MAX 750mA

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

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
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

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	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	03-28-2015	03-28-2016
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
5	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016
6	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016
7	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
8	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A
9	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016
10	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016

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	11-10-2012	11-09-2015
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

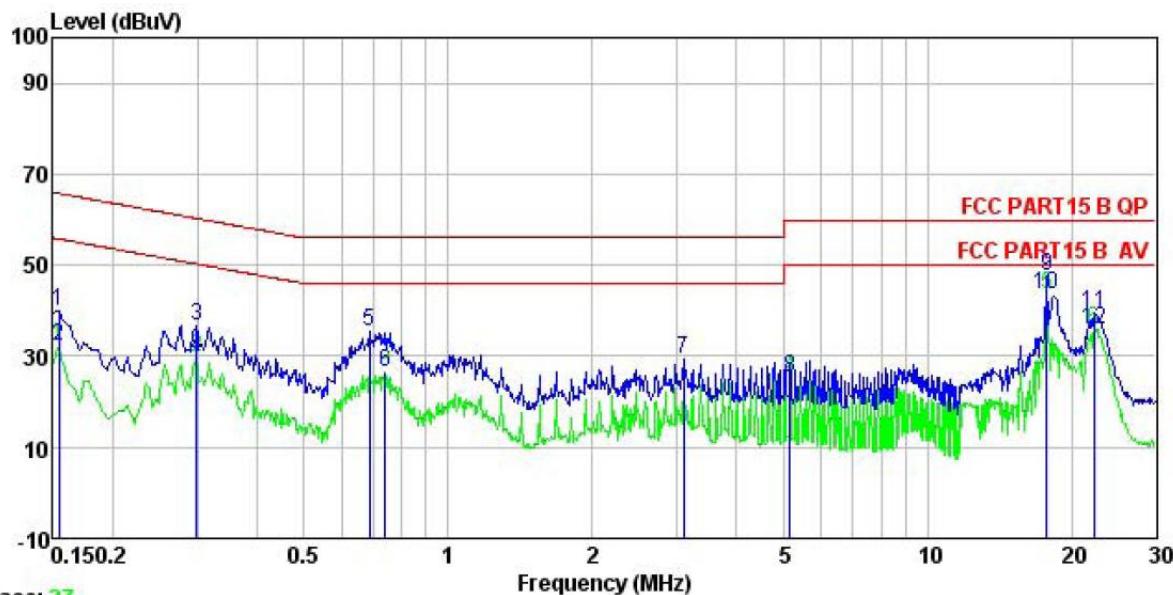
6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107					
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)	Limit (dB μ V)				
		Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
* Decreases with the logarithm of the frequency.						
Test setup:	<p>Reference Plane</p> <p>LISN</p> <p>40cm</p> <p>80cm</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>					
Test procedure	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). They provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement. 					
Test environment:	Temp.:	23 °C	Humid.:	56%	Press.:	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					

Measurement data:

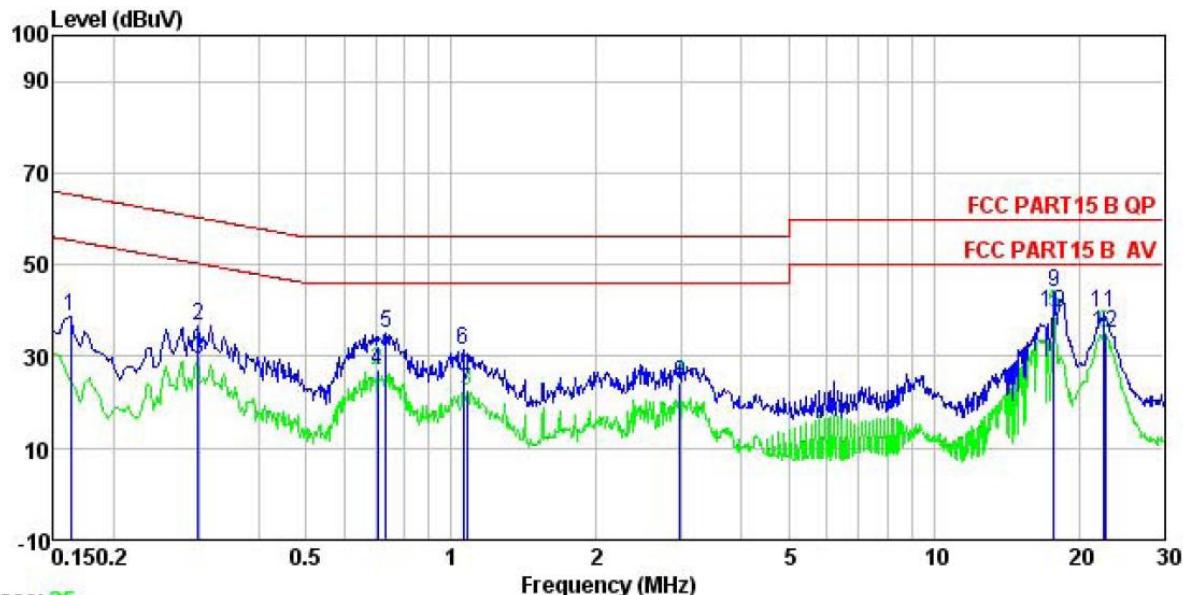
Line:



Site : CCIS Shielding Room
Condition : FCC PART15 B QP LISN LINE
EUT : Mobile phone
Model : A35S
Test Mode : PC mode
Power Rating : AC120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: Zora
Remark :

Freq	Read	LISN	Cable	Limit	Over	Remark	
	MHz	Level	Factor	Loss	Level	Line	Limit
1	0.154	28.96	0.27	10.78	40.01	65.78	-25.77 QP
2	0.154	21.19	0.27	10.78	32.24	55.78	-23.54 Average
3	0.299	25.84	0.26	10.74	36.84	60.28	-23.44 QP
4	0.299	18.59	0.26	10.74	29.59	50.28	-20.69 Average
5	0.686	24.32	0.22	10.77	35.31	56.00	-20.69 QP
6	0.739	15.33	0.22	10.79	26.34	46.00	-19.66 Average
7	3.107	18.04	0.27	10.92	29.23	56.00	-26.77 QP
8	5.166	14.24	0.30	10.84	25.38	50.00	-24.62 Average
9	17.755	36.36	0.33	10.90	47.59	60.00	-12.41 QP
10	17.755	32.47	0.33	10.90	43.70	50.00	-6.30 Average
11	22.298	28.12	0.42	10.90	39.44	60.00	-20.56 QP
12	22.298	24.73	0.42	10.90	36.05	50.00	-13.95 Average

Neutral:



Notes:

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

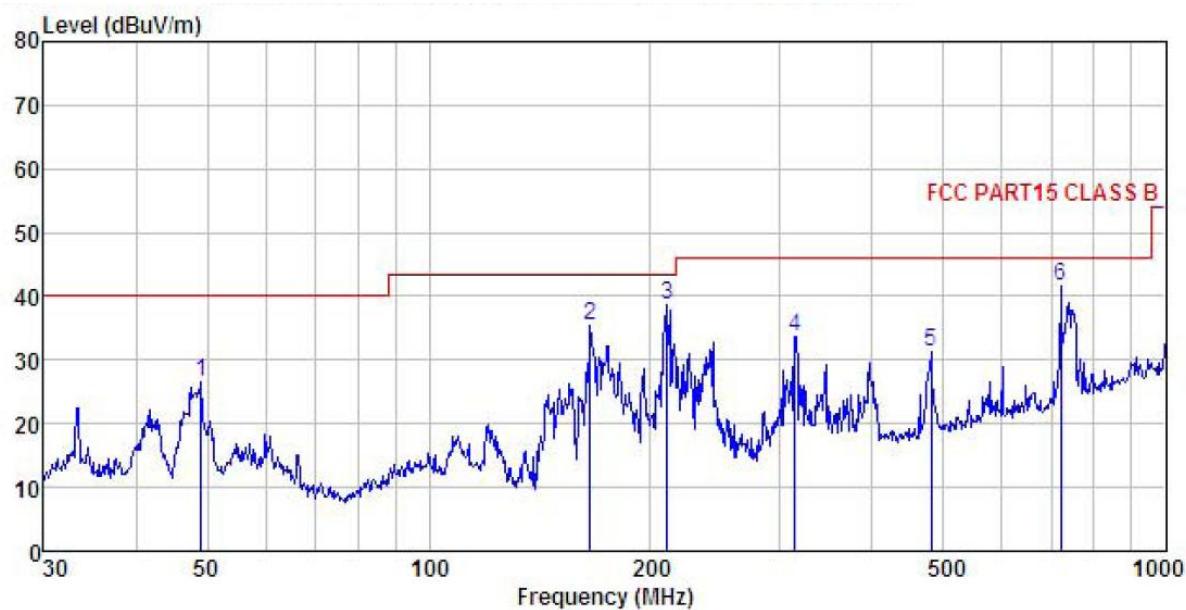
6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:2009								
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	120kHz	300kHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	RMS	1MHz	3MHz	Average	Value				
	Frequency	Limit (dBuV/m @3m)		Remark					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
Test setup:	Above 1GHz								
	74.0								
Below 1GHz									
Above 1GHz									

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 chamber. 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**

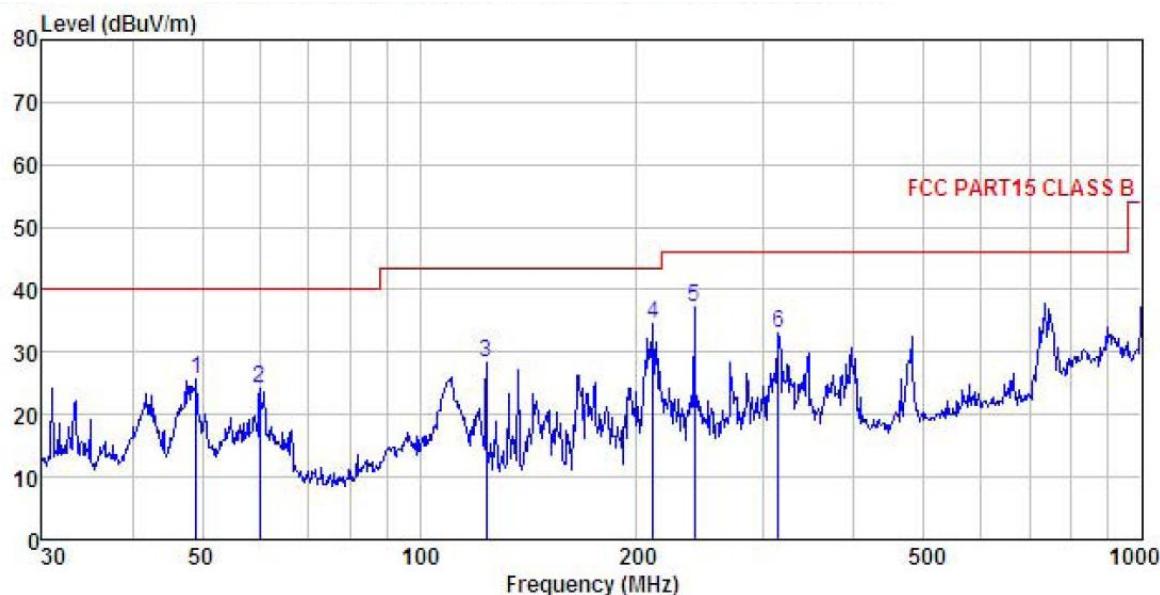
Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
EUT : Mobile phone
Model : A35S
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

	Freq	ReadAntenna Level	Cable Factor	Preamp Loss	Limit Factor	Line Level	Over Line Limit	Over Line Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	49.014	42.44	13.31	0.60	29.83	26.52	40.00	-13.48 QP
2	165.487	54.49	8.82	1.34	29.09	35.56	43.50	-7.94 QP
3	210.786	55.18	10.90	1.44	28.76	38.76	43.50	-4.74 QP
4	314.377	47.09	13.26	1.82	28.48	33.69	46.00	-12.31 QP
5	480.528	41.70	16.07	2.35	28.92	31.20	46.00	-14.80 QP
6	721.726	48.21	19.10	2.97	28.58	41.70	46.00	-4.30 QP

Vertical:

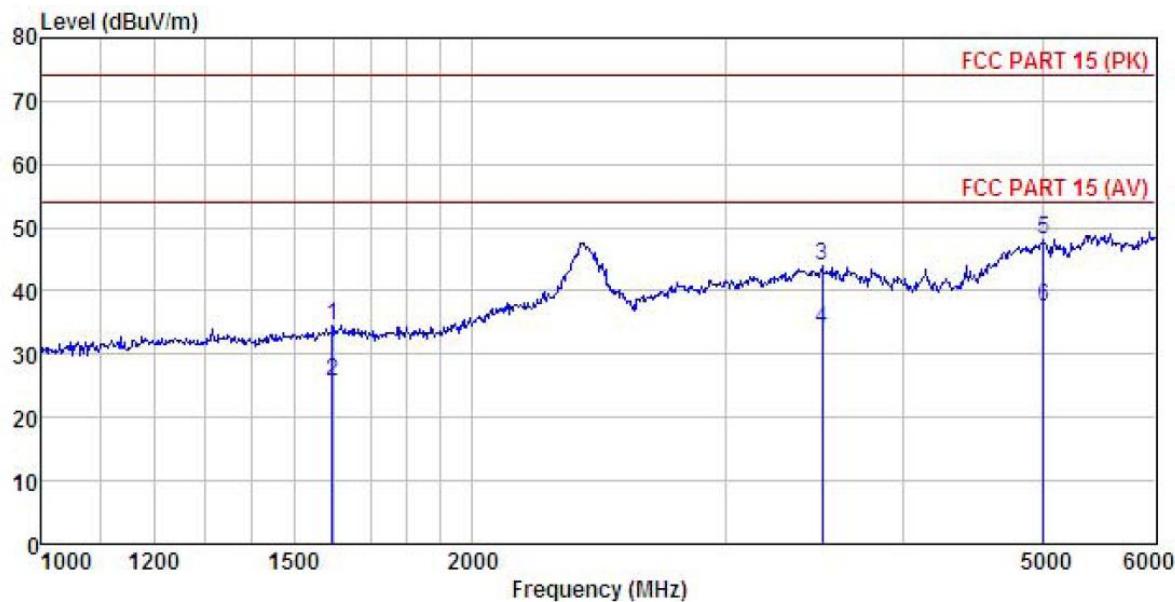


Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL
EUT : Mobile phone
Model : A35S
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Lora
REMARK :

Freq	ReadAntenna		Cable Preamp		Limit Line	Over Limit	Remark	
	MHz	Level	Antenna Factor	Cable Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	49.014	41.73	13.31	0.60	29.83	25.81	40.00	-14.19 QP
2	60.069	40.47	12.69	0.69	29.77	24.08	40.00	-15.92 QP
3	123.699	46.63	9.90	1.15	29.37	28.31	43.50	-15.19 QP
4	210.786	50.88	10.90	1.44	28.76	34.46	43.50	-9.04 QP
5	239.987	51.99	12.09	1.58	28.59	37.07	46.00	-8.93 QP
6	314.377	46.38	13.26	1.82	28.48	32.98	46.00	-13.02 QP

Above 1GHz

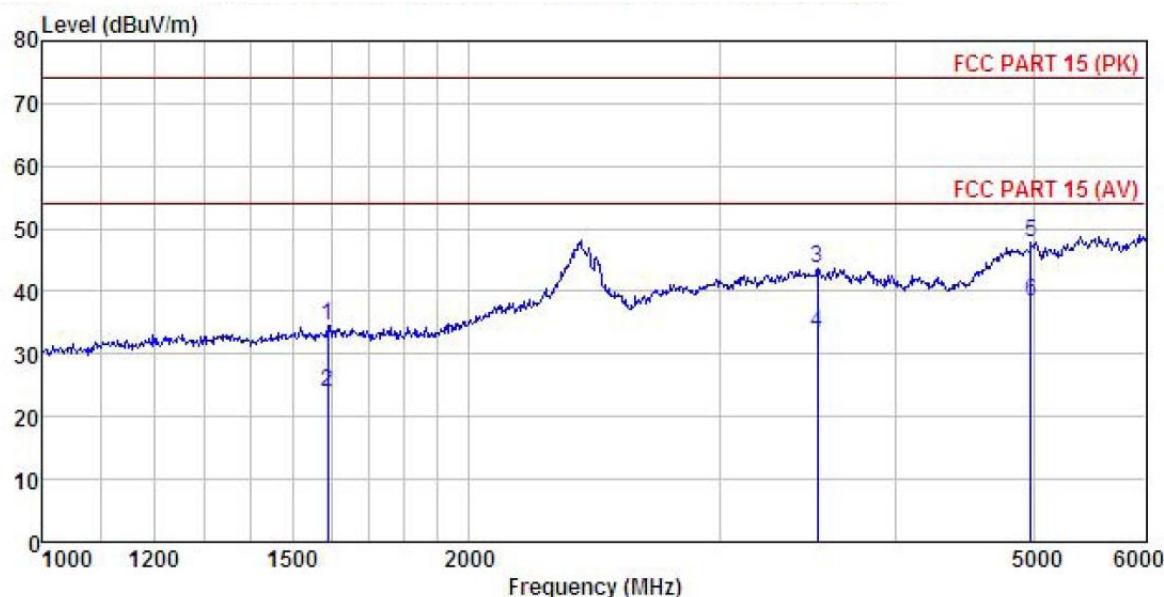
Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
EUT : Mobile phone
Model : A35S
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	1595.231	45.51	24.98	5.08	40.97	34.60
2	1595.231	36.52	24.98	5.08	40.97	25.61
3	3508.231	46.03	28.95	8.79	39.71	44.06
4	3508.231	35.86	28.95	8.79	39.71	33.89
5	5008.886	45.45	31.85	10.78	39.99	48.09
6	5008.886	34.84	31.85	10.78	39.99	37.48

Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
EUT : Mobile phone
Model : A35S
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1589.035	45.43	24.98	5.06	40.97	34.50	74.00	-39.50 Peak
2	1589.035	34.86	24.98	5.06	40.97	23.93	54.00	-30.07 Average
3	3521.911	45.58	29.01	8.83	39.71	43.71	74.00	-30.29 Peak
4	3521.911	35.12	29.01	8.83	39.71	33.25	54.00	-20.75 Average
5	4979.731	45.32	31.74	10.75	40.00	47.81	74.00	-26.19 Peak
6	4979.731	35.89	31.74	10.75	40.00	38.38	54.00	-15.62 Average