Report No: CCIS12110028004

FCC REPORT

Applicant:	Star Computer Group
Address of Applicant:	2175 NORTHWEST 115TH AVE. DORAL, FL 33172, USA

Equipment Under Test (EUT)

Product Name:	smart mobile phone
Model No.:	E-380
Trade mark:	ARGOM TECH
FCC ID:	Q34-E380
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B: 2011
Date of sample receipt:	30 Nov., 2012
Date of Test:	01 Dec., to 04 Dec., 2012
Date of report issued:	18 Dec., 2012
Test Result :	Pass *

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

Authorized Signature:

Bruce Zhang
Laboratory Manager

2 Version

Version No.	Date	Description
00	18 Dec., 2012	*Original*

Prepared By:  ***Date:*** 18 Dec., 2012

Report Clerk

Check By:  ***Date:*** 18 Dec., 2012

Project Engineer

3 Contents

Page

4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	Pass
Readiated Emissions	Part15.109	Pass

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

5 General Information

5.1 Client Information

Applicant:	Star Computer Group
Address of Applicant:	2175 NORTHWEST 115TH AVE. DORAL, FL 33172, USA
Manufacturer:	GUANGZHOU SOQOO COMMUNICATION TECHNOLOGY CO.,LTD
Address of Manufacturer:	Building B, No.2, Yiheng Road, Avenue 2, Tiantougang Industry District, Tianhe District, Guangzhou, Guangdong, China
Factory:	ragentek (huizhou) electronics co., LTD
Address of Factory:	Floor 4,Tower 2, Hangtian Science&technology Park, Zhongkai High Tech District, Huizhou, Guangdong, China

5.2 General Description of E.U.T.

Product Name:	smart mobile phone
Model No.:	E-380
Trade mark:	ARGOM TECH
AC adapter:	Input:100-240V AC,50/60Hz 0.15A Output:5V DC MAX500mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/1300mAh

5.3 Operating Modes

Operating mode	Detail description
Downloading mode	Keep the EUT in Downloading mode(Worst case)
Camera mode	Keep the EUT in Camera mode
Play mode	Keep the EUT in Play mode
Recording mode	Keep the EUT in Recording mode
FM mode	Keep the EUT in FM receiever mode
GPS mode	Keep the EUT in GPS receiever 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

5.5 Deviation from Standards

None

5.6 Abnormalities from Standard Conditions

None.

5.7 Other Information Requested by the Customer

None.

5.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC —Registration No.:** 817957

China Certification & Inspection Services Co., Ltd., Shenzhen 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

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

5.9 Test Location

All tests were performed at:

China Certification & Inspection Services Co., Ltd.
Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China
Tel: 0755-23118282
Fax: 0755-23116366

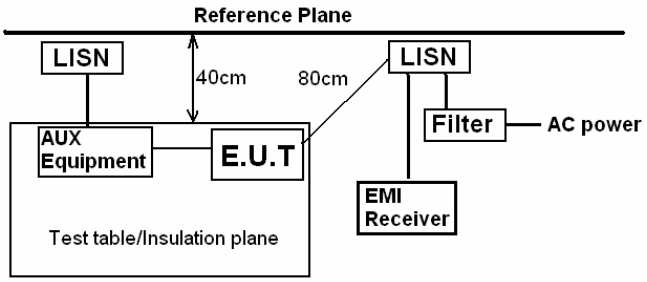
6 Test Instruments list

Radiated Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (dd-mm-yy)**	**Cal.Due date (dd-mm-yy)**
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr.01 2012	Mar. 31 2013
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 03 2013
4	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May. 29 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2012	Mar. 31 2013
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2012	Mar. 31 2013
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2012	Mar. 31 2013
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2012	Mar. 31 2013
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2012	Mar. 31 2013
11	Amplifier(10KHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2012	Mar. 31 2013
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 08 2013
13	Spectrum analyzer	Rohde & Schwarz	FSP	CCIS0023	May 29 2012	May 28 2013
14	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A
15	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A

Conducted Emission:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (dd-mm-yy)**	**Cal.Due date (dd-mm-yy)**
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 08 2013
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	May 25 2012	May. 24 2013
3	LISN	CHASE	MN2050D	CCIS0074	Apr. 01 2012	Mar. 31 2013
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2012	Mar. 31 2013

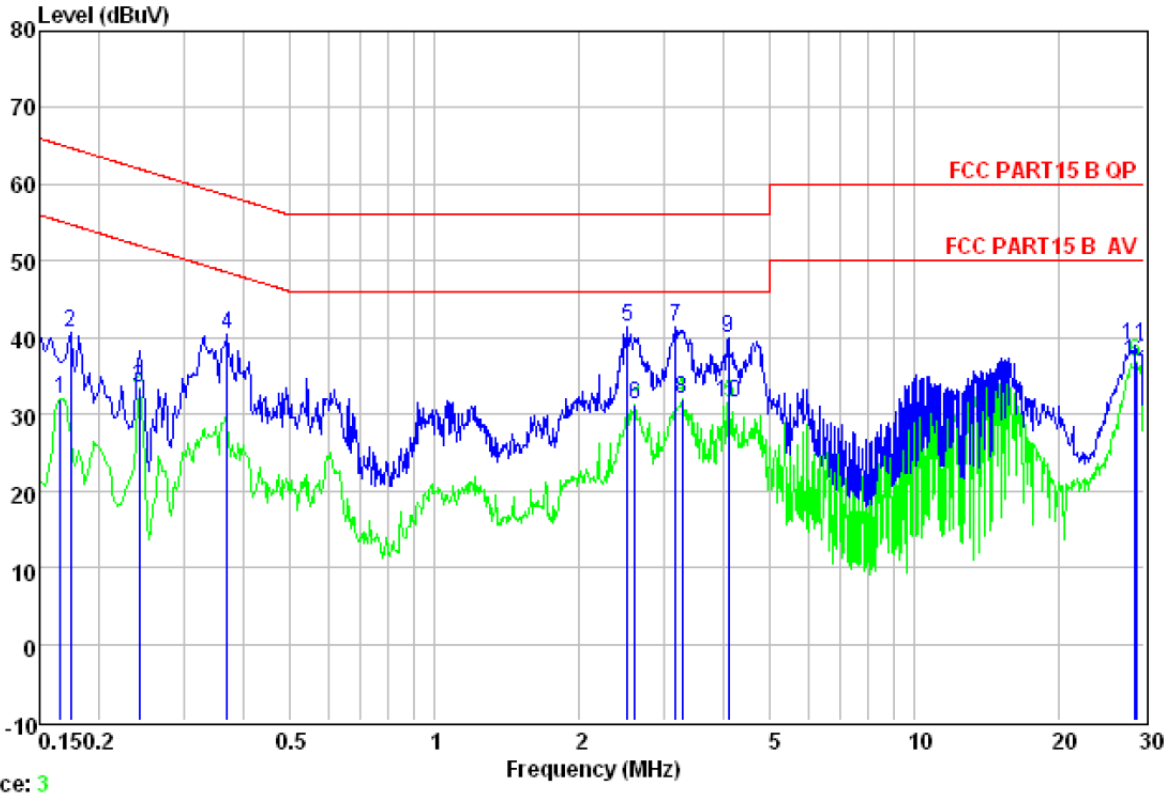
7 Test results and Measurement Data

7.1 Conducted Emissions

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:	<table><tr><td rowspan="2">Frequency range (MHz)</td><td colspan="2">Limit (dBµV)</td></tr><tr><td>Quasi-peak</td><td>Average</td></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>0.5-30</td><td>60</td><td>50</td></tr></table>
Test setup:	 *Remark:* *E.U.T: Equipment Under Test* *LISN: Line Impedence Stabilization Network* *Test table height=0.8m*
Test procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 3. 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: 2003 on conducted measurement.
Test environment:	Temp.: 23 °C Humid.: 56% Press.: 1 01kPa
Measurement Record:	Uncertainty: 3.28dB
Test Instruments:	Refer to section 6 for details
Test mode:	Pre-scan all test mode in the section 5.3, and found the bleow mode which it is worse case mode.
Test results:	Pass

Measurement data:

Line:

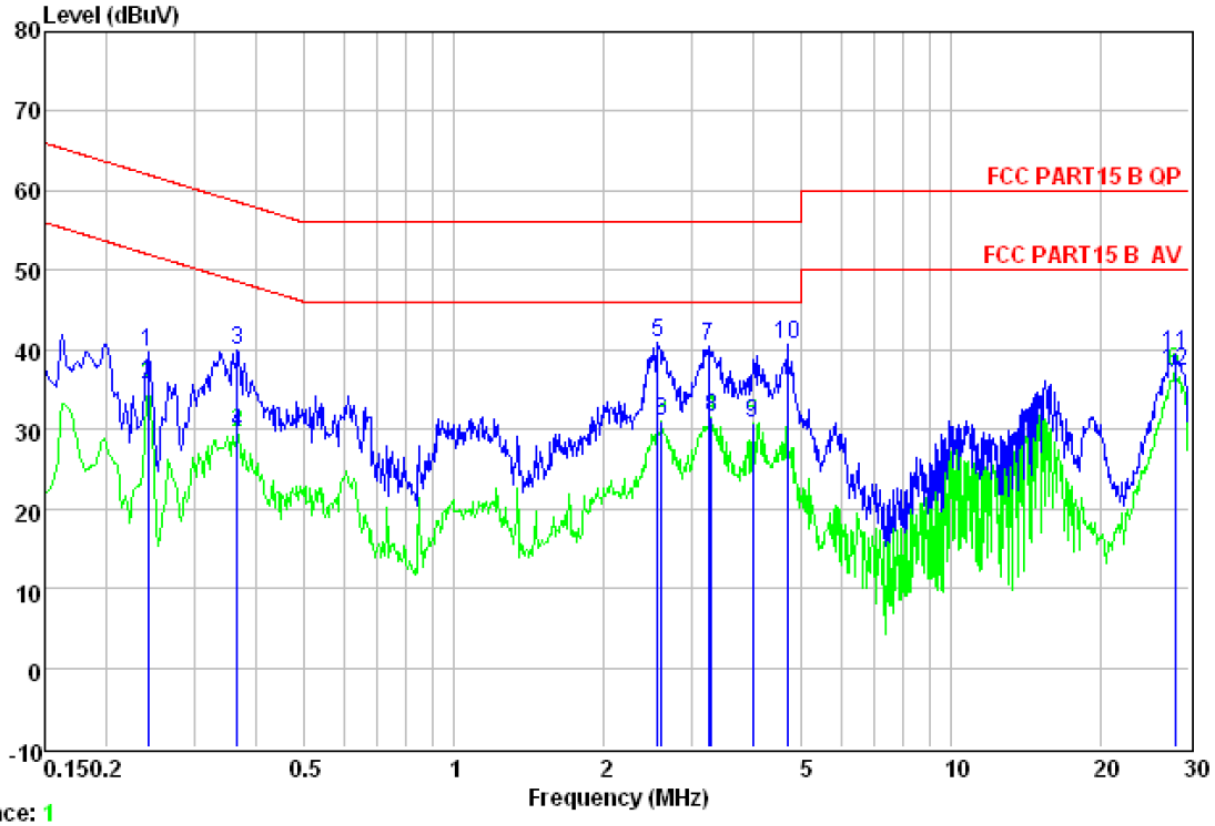


Trace: 3

Site :
Condition : FCC PART15 B QP LISN LINE
Job. no : 280RF
EUT : Smart mobile phone
Model : E-380
Test Mode : Downloading mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 'C Huni:56% Atmos:101KPa
Test Engineer: Winner

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.166	21.00	10.24	0.78	32.02	55.16	-23.14	Average
2	0.174	29.59	10.23	0.77	40.59	64.77	-24.18	QP
3	0.242	22.45	10.23	0.75	33.43	52.04	-18.61	Average
4	0.369	29.51	10.27	0.72	40.50	58.52	-18.02	QP
5	2.513	30.16	10.28	0.94	41.38	56.00	-14.62	QP
6	2.608	19.98	10.28	0.94	31.20	46.00	-14.80	Average
7	3.173	30.22	10.29	0.91	41.42	56.00	-14.58	QP
8	3.276	20.76	10.29	0.90	31.95	46.00	-14.05	Average
9	4.092	28.84	10.29	0.89	40.02	56.00	-15.98	QP
10	4.114	20.43	10.29	0.89	31.61	46.00	-14.39	Average
11	28.755	27.30	10.81	0.87	38.98	60.00	-21.02	QP
12	28.908	25.13	10.81	0.87	36.81	50.00	-13.19	Average

Neutral:



Trace: 1

```
Site          :
Condition     : FCC PART15 B QP LISN NEUTRAL
Job. no       : 280RF
EUT           : Smart mobile phone
Model         : E-380
Test Mode     : Downloading mode
Power Rating  : AC 120V/60Hz
Environment   : Temp: 23 'C Huni:56%  Atmos:101KPa
Test Engineer: Winner
```

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.242	28.75	10.23	0.75	39.73	62.04	-22.31	QP
2	0.242	24.59	10.23	0.75	35.57	52.04	-16.47	Average
3	0.365	28.98	10.25	0.72	39.95	58.61	-18.66	QP
4	0.365	18.64	10.25	0.72	29.61	48.61	-19.00	Average
5	2.567	29.80	10.27	0.94	41.01	56.00	-14.99	QP
6	2.608	19.69	10.27	0.94	30.90	46.00	-15.10	Average
7	3.241	29.16	10.28	0.90	40.34	56.00	-15.66	QP
8	3.293	20.30	10.28	0.90	31.48	46.00	-14.52	Average
9	3.985	19.64	10.28	0.89	30.81	46.00	-15.19	Average
10	4.672	29.47	10.27	0.87	40.61	56.00	-15.39	QP
11	28.152	27.79	10.75	0.87	39.41	60.00	-20.59	QP
12	28.152	25.74	10.75	0.87	37.36	50.00	-12.64	Average

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

7.2 Radiated Emission

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:

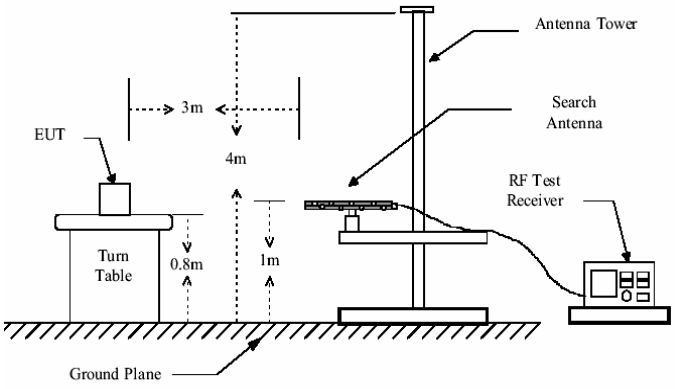
Frequency	Detector	RBW	VBW	Remark
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz	Average Value

Limit:

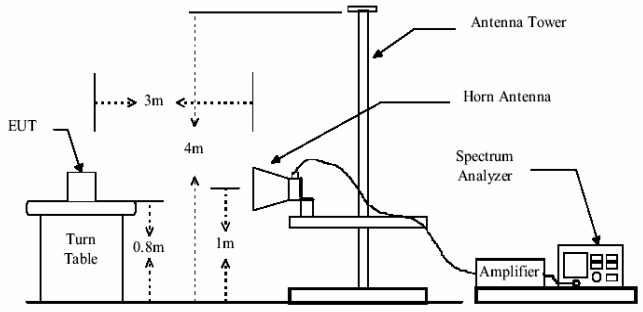
Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test setup:

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 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 6 for details
Test mode:	Pre-scan all test mode in the section 5.3, and found the bleow mode which it is worse case mode.
Test results:	Passed

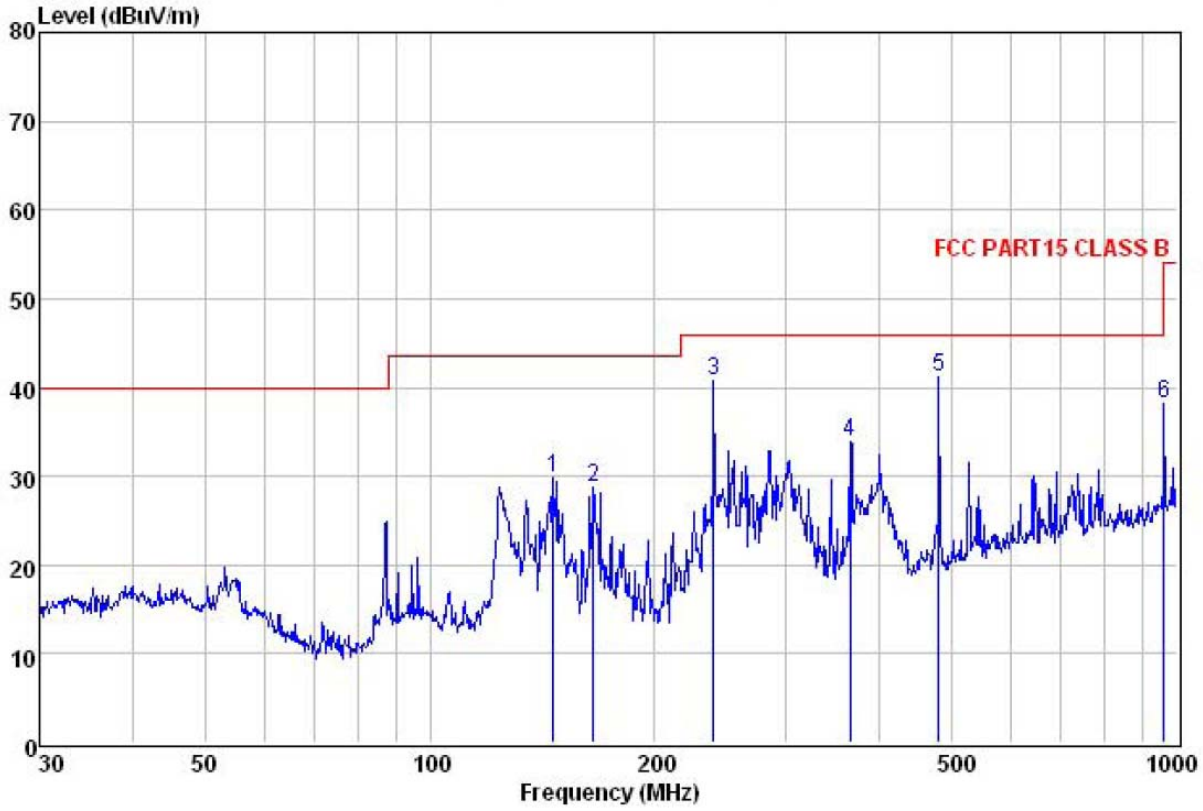
Remark:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.

Measurement Data

Below 1GHz

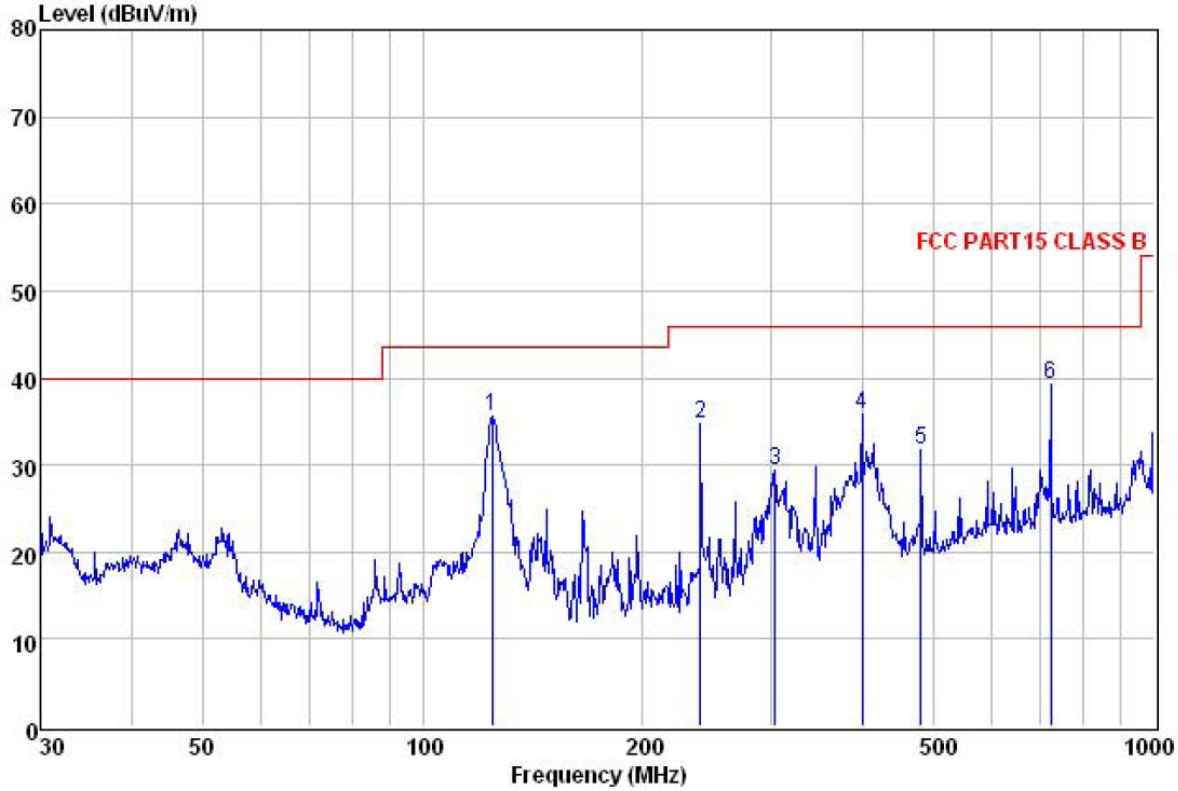
Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
Job No. : 280RF
EUT : Smart mobile phone
Model : E-380
Test mode : Downloading mode
Power Rating : AC 120V/60Hz
Environment : Temp:25℃ Huni:55% Atmos:101Kpa
Test Engineer: Winner

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	146.374	48.33	8.23	2.47	29.28	29.75	43.50	-13.75	QP
2	165.487	46.58	8.82	2.62	29.33	28.69	43.50	-14.81	QP
3	239.987	55.51	12.09	2.82	29.64	40.78	46.00	-5.22	QP
4	365.539	46.17	14.48	3.09	29.75	33.99	46.00	-12.01	QP
5	480.528	52.19	16.07	3.46	30.52	41.20	46.00	-4.80	QP
6	962.162	42.42	21.49	4.27	29.90	38.28	54.00	-15.72	QP

Vertical:

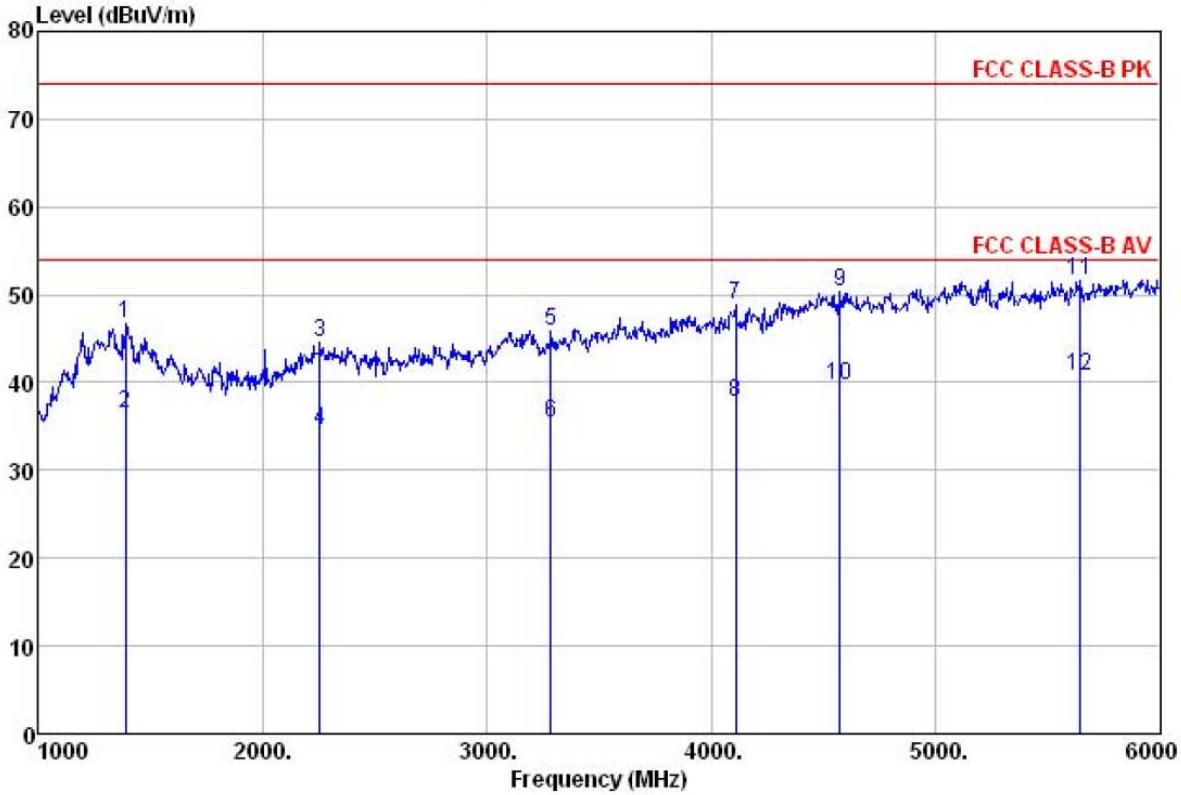


Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) VERTICAL
Job No. : 280RF
EUT : Smart mobile phone
Model : E-380
Test mode : Downloading mode
Power Rating : AC 120V/60Hz
Environment : Temp:25℃ Huni:55% Atmos:101Kpa
Test Engineer: Winner

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	124.569	53.25	9.80	2.22	29.62	35.65	43.50	-7.85	QP
2	239.987	49.40	12.09	2.82	29.64	34.67	46.00	-11.33	QP
3	303.544	42.86	13.11	2.95	29.45	29.47	46.00	-16.53	QP
4	399.030	47.67	15.06	3.08	29.89	35.92	46.00	-10.08	QP
5	480.528	42.76	16.07	3.46	30.52	31.77	46.00	-14.23	QP
6	721.726	46.48	19.10	4.26	30.55	39.29	46.00	-6.71	QP

Above 1GHz

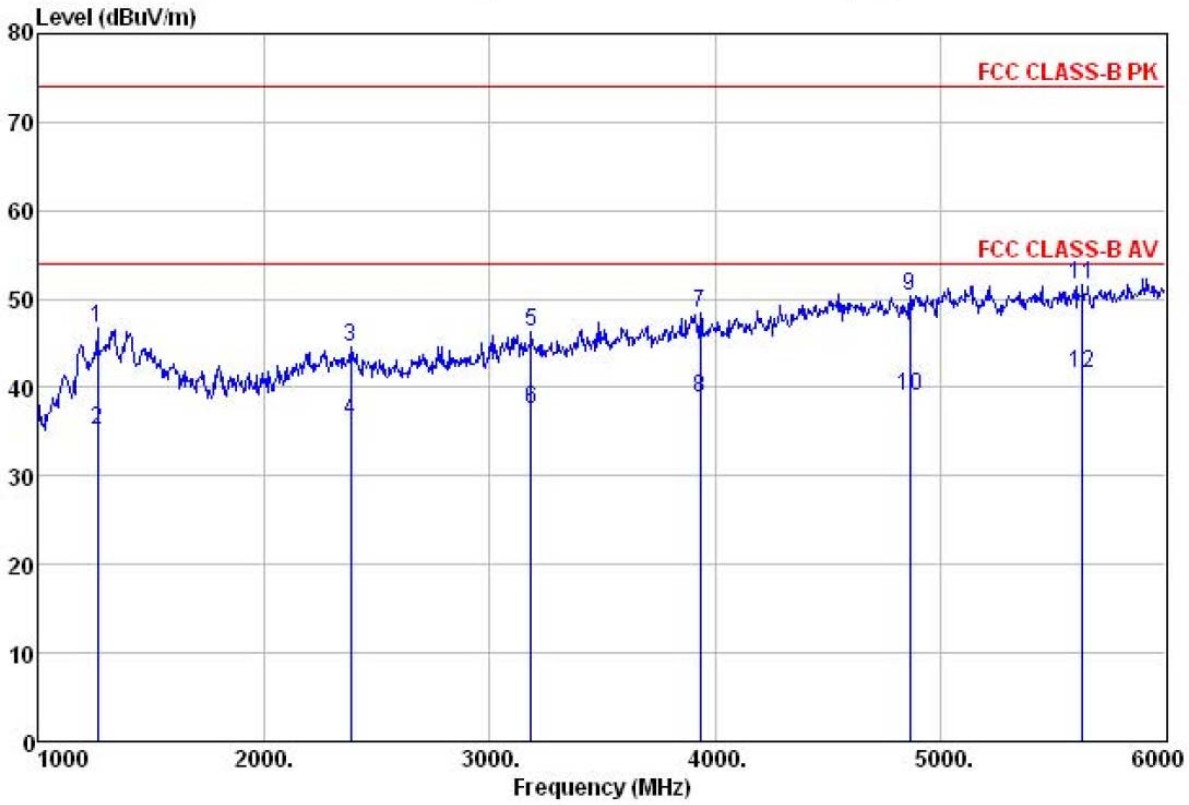
Horizontal:



Site : 3m chamber
Condition : FCC CLASS-B PK 3m BBHA9120(>1GHZ) HORIZONTAL
Job No. : 280RF
Test mode : downloading mode
Test Engineer: Joe

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1385.000	39.68	25.50	2.86	21.39	46.65	74.00	-27.35	Peak
2	1385.000	29.42	25.50	2.86	21.39	36.39	54.00	-17.61	Average
3	2255.000	43.32	28.02	3.72	30.50	44.56	74.00	-29.44	Peak
4	2255.000	33.42	28.02	3.72	30.50	34.66	54.00	-19.34	Average
5	3285.000	41.46	28.41	4.66	28.71	45.82	74.00	-28.18	Peak
6	3285.000	30.95	28.41	4.66	28.71	35.31	54.00	-18.69	Average
7	4110.000	39.60	30.06	5.38	26.29	48.75	74.00	-25.25	Peak
8	4110.000	28.67	30.06	5.38	26.29	37.82	54.00	-16.18	Average
9	4575.000	38.14	30.92	5.72	24.43	50.35	74.00	-23.65	Peak
10	4575.000	27.46	30.92	5.72	24.43	39.67	54.00	-14.33	Average
11	5645.000	36.97	32.13	6.37	23.83	51.64	74.00	-22.36	Peak
12	5645.000	25.98	32.13	6.37	23.83	40.65	54.00	-13.35	Average

Vertical:



Site : 3m chamber
Condition : FCC CLASS-B PK 3m BBHA9120(>1GHZ) VERTICAL
Job No. : 280RF
Test mode : downloading moe
Test Engineer: Joe

	Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1260.000	37.90	25.50	2.69	19.42	46.67	74.00	-27.33	Peak
2	1260.000	26.47	25.50	2.69	19.42	35.24	54.00	-18.76	Average
3	2385.000	43.41	27.58	3.81	30.15	44.65	74.00	-29.35	Peak
4	2385.000	35.13	27.58	3.81	30.15	36.37	54.00	-17.63	Average
5	3185.000	42.12	28.76	4.55	29.20	46.23	74.00	-27.77	Peak
6	3185.000	33.50	28.76	4.55	29.20	37.61	54.00	-16.39	Average
7	3935.000	40.23	29.78	5.23	26.80	48.44	74.00	-25.56	Peak
8	3935.000	30.55	29.78	5.23	26.80	38.76	54.00	-15.24	Average
9	4865.000	36.98	31.57	5.91	24.03	50.43	74.00	-23.57	Peak
10	4865.000	25.64	31.57	5.91	24.03	39.09	54.00	-14.91	Average
11	5630.000	36.90	32.11	6.35	23.82	51.54	74.00	-22.46	Peak
12	5630.000	27.05	32.11	6.35	23.82	41.69	54.00	-12.31	Average