Report No: CCIS15080065004

FCC REPORT

Applicant: Telcare

Address of Applicant: 4350 East-West Highway, Suite 1111 Bethesda, MD 20814

USA

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: BGM2.0

Trade mark: Telcare

FCC ID: YPTTELCBGM03

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 14 Aug., 2015

Date of Test: 14 Aug., to 18 Sep., 2015

Date of report issued: 21 Sep., 2015

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.

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





2 Version

Version No.	Date	Description
00	21 Sep., 2015	Original

Tested by: Query (hen Date: 21 Sep., 2015

Test Engineer

Reviewed by: Date: 21 Sep., 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.



Report No: CCIS15080065004

5 General Information

5.1 Client Information

Applicant:	Telcare
Address of Applicant:	4350 East-West Highway, Suite 1111 Bethesda, MD 20814 USA
Manufacturer:	Teleepoch
Address of Manufacturer:	Room 308, Building-A, Unisplendour Information Harbor,
	Hi-Tech Park North, Nan Shan District, Shenzhen, P.R.China

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	BGM2.0
Power supply:	Rechargeable Li-ion Battery DC3.8V-1800mAh
	Model: S-TR-010L-048050U
AC adapter :	Input:100-240V AC,50/60Hz 0.19A
	Output:4.8V DC MAX 0.5A

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.



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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	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	Printer	CB495A	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: +86-755-23118282 Fax: +86-755-23116366





5.7 Test Instruments list

Radia	ated 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	oment 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

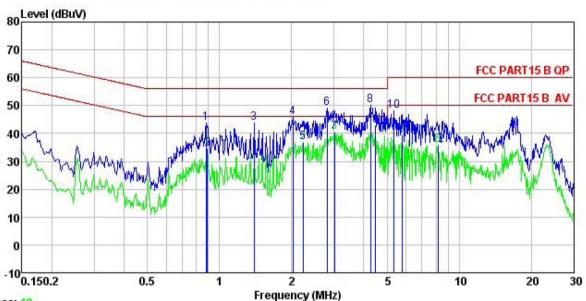
Test Requirement:	FCC Part 15 B Section 15.10)7	
Test Method:	ANSI C63.4:2009		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Fraguency range (MHz)	Limit	(dBµV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	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 — AC p	
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.). To be dance for the measure also connected to the ohm/50uH coupling important to the block diagram as to the block diagram and the maximum emissed all of the interface case.	he provide a uring equipment. e main power through pedance with 50ohm of the test setup and m conducted sion, the relative ables must be changed
Test environment:	Temp.: 23 °C Hun	nid.: 56% Pr	ess.: 1 01kPa
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: 10

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

pro EUT : 650RF

: Mobile Phone Model : BGM2.0 Model : DGMZ.0
Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer:

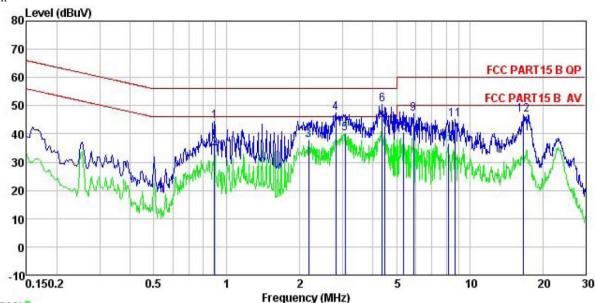
Remark

	Freq	3400000000000	LISN Factor	Cable Loss		Limit Line		Remark	
	MHz	dBu∀	dB	dB	dBu∀	dBu∀	dB		
1	0.880	32.76	0.24	10.83	43.83	56.00	-12.17	QP	
2	0.890	23.36	0.24	10.84	34.44	46.00	-11.56	Average	
3	1.396	32.60	0.25	10.91	43.76	56.00	-12.24	QP	
4	2.023	34.47	0.26	10.96	45.69	56.00	-10.31	QP	
1 2 3 4 5 6 7 8 9	2.237	25.60	0.26	10.95	36.81	46.00	-9.19	Average	
6	2.809	37.76	0.27	10.93	48.96	56.00	-7.04	QP	
7	3.025	29.20	0.27	10.92	40.39	46.00	-5.61	Average	
8	4.269	38.91	0.28	10.88	50.07	56.00	-5.93	QP	
9	4.478	31.53	0.29	10.87	42.69	46.00	-3.31	Average	
10	5.362	37.11	0.30	10.84	48.25	60.00	-11.75	QP	
11	5.774	28.33	0.31	10.83	39.47	50.00	-10.53	Average	
12	8.148	24.53	0.32	10.86	35.71	50.00	-14.29	Average	





Neutral:



Trace: 8

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL

Condition : 650RF

pro EUT : Mobile Phone Model : BGM2.0
Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Remark

-	Read				Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Kemark	
MHz	dBu∀	dB	₫B	dBu₹	₫₿uѶ	dB		
0.890	33.46	0.21	10.84	44.51	56.00	-11.49	QP	
0.890	23.85	0.21	10.84	34.90	46.00	-11.10	Average	
2.178	26.45	0.29	10.95	37.69	46.00	-8.31	Average	
2.809	36.12	0.29	10.93	47.34	56.00	-8.66	QP	
3.074	29.10	0.29	10.92	40.31	46.00	-5.69	Average	
4.361	39.23	0.29	10.88	50.40	56.00	-5.60	QP	
4.478	31.73	0.28	10.87	42.88	46.00	-3.12	Average	
5.362	29.22	0.27	10.84	40.33	50.00	-9.67	Average	
5.867	36.14	0.27	10.82	47.23	60.00	-12.77	QP	
8.148	25.40	0.26	10.86	36.52	50.00	-13.48	Average	
8.729	34.02	0.25	10.89	45.16	60.00	-14.84	QP	
16.661	35.64	0.25	10.91	46.80	60.00	-13.20	QP	
	0.890 0.890 2.178 2.809 3.074 4.361 4.478 5.362 5.867 8.148 8.729	MHz dBuV 0.890 33.46 0.890 23.85 2.178 26.45 2.809 36.12 3.074 29.10 4.361 39.23 4.478 31.73 5.362 29.22 5.867 36.14 8.148 25.40 8.729 34.02	Freq Level Factor MHz dBuV dB 0.890 33.46 0.21 0.890 23.85 0.21 2.178 26.45 0.29 2.809 36.12 0.29 3.074 29.10 0.29 4.361 39.23 0.29 4.478 31.73 0.28 5.362 29.22 0.27 5.867 36.14 0.27 8.148 25.40 0.26 8.729 34.02 0.25	MHz dBuV dB dB 0.890 33.46 0.21 10.84 0.890 23.85 0.21 10.84 2.178 26.45 0.29 10.95 2.809 36.12 0.29 10.93 3.074 29.10 0.29 10.92 4.361 39.23 0.29 10.84 4.478 31.73 0.28 10.87 5.362 29.22 0.27 10.84 5.867 36.14 0.27 10.82 8.148 25.40 0.26 10.86 8.729 34.02 0.25 10.89	MHz dBuV dB dB dBuV 0.890 33.46 0.21 10.84 44.51 0.890 23.85 0.21 10.84 34.90 2.178 26.45 0.29 10.95 37.69 2.809 36.12 0.29 10.93 47.34 3.074 29.10 0.29 10.92 40.31 4.361 39.23 0.29 10.88 50.40 4.478 31.73 0.28 10.87 42.88 5.362 29.22 0.27 10.84 40.33 5.867 36.14 0.27 10.82 47.23 8.148 25.40 0.26 10.86 36.52 8.729 34.02 0.25 10.89 45.16	MHz dBuV dB dB dBuV dBuV 0.890 33.46 0.21 10.84 44.51 56.00 0.890 23.85 0.21 10.84 34.90 46.00 2.178 26.45 0.29 10.95 37.69 46.00 2.809 36.12 0.29 10.93 47.34 56.00 3.074 29.10 0.29 10.92 40.31 46.00 4.361 39.23 0.29 10.88 50.40 56.00 4.478 31.73 0.28 10.87 42.88 46.00 5.362 29.22 0.27 10.84 40.33 50.00 5.867 36.14 0.27 10.82 47.23 60.00 8.148 25.40 0.26 10.86 36.52 50.00 8.729 34.02 0.25 10.89 45.16 60.00	MHz dBuV dB dB dBuV dBuV dB 0.890 33.46 0.21 10.84 44.51 56.00 -11.49 0.890 23.85 0.21 10.84 34.90 46.00 -11.10 2.178 26.45 0.29 10.95 37.69 46.00 -8.31 2.809 36.12 0.29 10.93 47.34 56.00 -8.69 3.074 29.10 0.29 10.92 40.31 46.00 -5.69 4.361 39.23 0.29 10.88 50.40 56.00 -5.60 4.478 31.73 0.28 10.87 42.88 46.00 -3.12 5.362 29.22 0.27 10.84 40.33 50.00 -9.67 5.867 36.14 0.27 10.82 47.23 60.00 -12.77 8.148 25.40 0.26 10.86 36.52 50.00 -13.48 8.729 34.02 0.25	MHz dBuV dB dB dBuV dBuV dB 0.890 33.46 0.21 10.84 44.51 56.00 -11.49 QP 0.890 23.85 0.21 10.84 34.90 46.00 -11.10 Average 2.178 26.45 0.29 10.95 37.69 46.00 -8.31 Average 2.809 36.12 0.29 10.93 47.34 56.00 -8.66 QP 3.074 29.10 0.29 10.92 40.31 46.00 -5.69 Average 4.361 39.23 0.29 10.88 50.40 56.00 -5.60 QP 4.478 31.73 0.28 10.87 42.88 46.00 -3.12 Average 5.867 36.14 0.27 10.82 47.23 60.00 -12.77 QP 8.148 25.40 0.26 10.86 36.52 50.00 -13.48 Average 8.729 34.02

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

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-			300kHz		Quasi-peak Value		
	Above 1GHz	Pe		1MHz	3MHz 3MHz		Peak Value		
Limit:	Frequenc	RM v		1MHz 3MF _imit (dBuV/m @3m)			dz Average Value Remark		
Lillit.	30MHz-88M		Liiiit	40.0	20111)	(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								
	Search Antenna RF Test Receiver Turn Table 0.8m Im Ground Plane								
	Above 1GHz								
	SOCM SOCM	E EUT	G Test Recei	3m round Reference Plan	Horn Antenne	Contro	antenna 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							

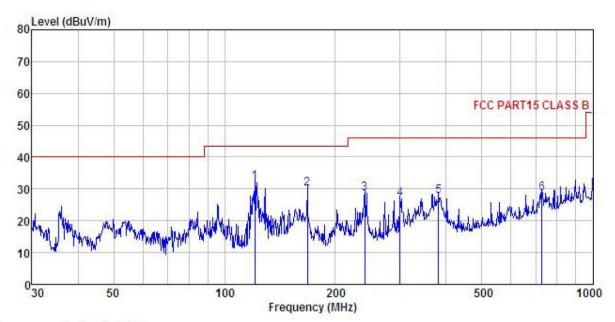




Measurement Data

Below 1GHz

Horizontal:



Site

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

EUT Mobile Phone

Model : BGM2.0
Test mode : PC mode
Power Rating : AC120V/60Hz

Environment: Temp: 25.5°C Huni: 55%

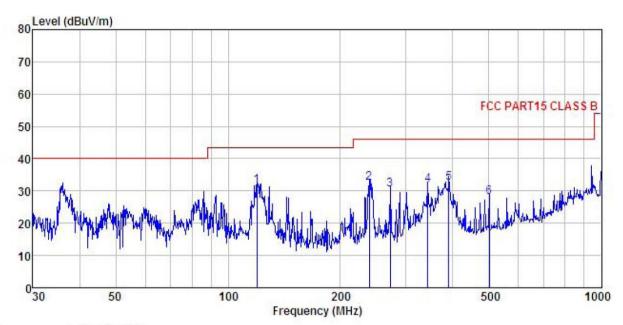
Test Engineer: Winner REMARK :

munut		Read	Antenna	Cable	Preamp		Limit	Over		
	Freq		Factor						Remark	
-	MHz	dBu₹	$\overline{-dB/m}$	dB	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>		
1	120.699	49.95	10.38	1.13	29.39	32.07	43.50	-11.43	QP	
2	167.824	48.84	8.90	1.34	29.07	30.01	43.50	-13.49	QP	
1 2 3 4 5	239.987	43.64	12.09	1.58	28.59	28.72	46.00	-17.28	QP	
4	299.316	40.44	13.03	1.77	28.45	26.79	46.00	-19.21	QP	
5	381.249	39.73	14.64	2.05	28.70	27.72	46.00	-18.28	QP	
6	726.805	35.22	19.15	2.98	28.57	28.78	46.00	-17.22	QP	





Vertical:



Site Condition

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

EUT : Mobile Phone

: BGM2.0 Model Test mode : PC mode Power Rating : AC120V/60Hz

Environment : Temp:25.5°C
Test Engineer: Winner
REMARK : Huni:55%

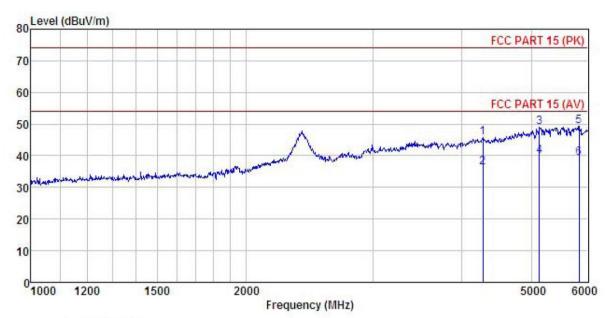
			ReadAntenna Cable Level Factor Loss						Remark
_	MHz	dBu∜	<u>dB</u> /π		<u>d</u> B	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	119.436	49.33	10.58	1.12	29.39	31.64	43.50	-11.86	QP
2	239.147	47.53	12.04	1.57	28.60	32.54	46.00	-13.46	QP
3	272.278	44.88	12.46	1.69	28.50	30.53	46.00	-15.47	QP
3 4	343.180	44.35	14.17	1.92	28.55	31.89	46.00	-14.11	QP
5	390.723	44.38	14.87	2.09	28.74	32.60	46.00	-13.40	QP
6	501.179	37.93	16.63	2.41	28.96	28.01	46.00	-17.99	QP





Above 1GHz

Horizontal:



Site

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

: Mobile Phone

Model : BGM2.0

Test mode : PC mode

Power Rating : AC120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: Winner

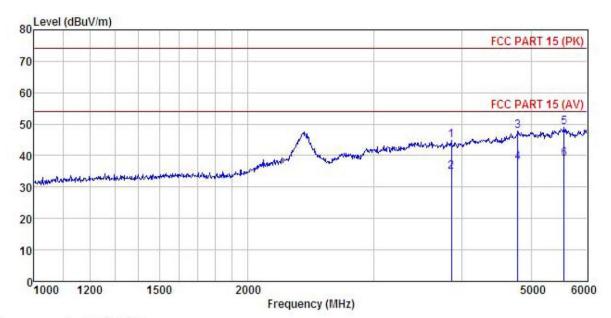
REMARK :

EMAK		_					-			
	Freq		Antenna Factor				Limit Line		Remark	
-	MHz	dBu₹	<u>dB</u> /m		<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
1	4276.423	46.22	30.35	9.97	40.88	45.66	74.00	-28.34	Peak	
2	4276.423	36.82	30.35	9.97	40.88	36.26	54.00	-17.74	Average	
3	5133.956	46.10	32.08	10.94	40.05	49.07	74.00	-24.93	Peak	
4	5133.956	36.79	32.08	10.94	40.05	39.76	54.00	-14.24	Average	
5	5830.433	45.48	32.65	11.73	40.67	49.19	74.00	-24.81	Peak	
6	5830, 433	35, 66	32, 65	11, 73	40, 67	39, 37	54,00	-14.63	Average	





Vertical:



Site

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

: Mobile Phone

Model : BGM2.0

Test mode : PC mode

Power Rating : AC120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: Winner

REMARK EUT

REMARK

CHITHA										
	Freq		Antenna Factor				Limit Line	Over Limit	Remark	
-	MHz	−−dBuV	<u>dB</u> /m		<u>d</u> B	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>		
1	3861.233	46.48	29.70	9.39	40.74	44.83	74.00	-29.17	Peak	
2	3861.233	36.51	29.70	9.39	40.74	34.86	54.00	-19.14	Average	
3	4787.449	46.07	31.50	10.55	40.27	47.85	74.00	-26.15	Peak	
4	4787.449	36.07	31.50	10.55	40.27	37.85	54.00	-16.15	Average	
5	5565.048	45.84	32.09	11.44	40.35	49.02	74.00	-24.98	Peak	
6	5565.048	35.76	32.09	11.44	40.35	38.94	54.00	-15.06	Average	