Report No: CCIS15060045005

FCC REPORT

Applicant: UNIMAX Communications

Address of Applicant: 18201 McDurmott Street West Suite E Irvine, CA 92614

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: MXW2

Trade mark: UMX

FCC ID: P46-MXW2

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 10 Jun., 2015

Date of Test: 10 Jun., to 15 Jul., 2015

Date of report issued: 15 Jul., 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.

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.





2 Version

Version No.	Date	Description
00	15 Jul., 2015	Original

Prepared by: Date: 15 Jul., 2015

Report Clerk

Reviewed by: Date: 15 Jul., 2015

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.



Report No: CCIS15060045005

5 General Information

5.1 Client Information

Applicant:	UNIMAX Communications
Address of Applicant:	18201 McDurmott Street West Suite E Irvine, CA 92614

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	MXW2
Power supply:	Rechargeable Li-ion Battery DC3.7V-1300mAh
	Model: NB-0500700EU
AC adapter :	Input:100-240V AC,50/60Hz 0.2A
	Output:5V DC MAX 700mA

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
GPS mode	Keep the EUT in GPS receiver 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	DELL MONITOR E178F		N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	DELL MOUSE MO		N/A	DoC
HP	HP Printer		05257893	DoC
MERCURY	MERCURY Wireless router		12922104015	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	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2015	03-31-2016			
8	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2015	03-31-2016			
9	Printer	HP	HP LaserJet P1007	N/A	N/A	N/A			
10	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A			
11	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP	CCIS0023	03-28-2015	03-28-2016			
12	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	03-28-2015	03-28-2016			
13	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2015	03-31-2016			
14	Universal radio communication tester	Rhode & Schwarz	CMU200	CCIS0069	03-28-2015	03-28-2016			
15	Signal Analyzer	Rohde & Schwarz	FSIQ3	CCIS0088	04-08-2015	04-08-2016			

Cond	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

o.i Conducted									
Test Requirem	nent: F	CC Part 15 B Section 15.10	07						
Test Method:	A	NSI C63.4:2009							
Test Frequenc	cy Range: 1	50kHz to 30MHz							
Class / Severit	ty: C	class B							
Receiver setur	p: R	RBW=9kHz, VBW=30kHz							
Limit:		Limit (dRu\/)							
		Frequency range (MHz)	Quasi-peak	Average					
		0.15-0.5	66 to 56*	56 to 46*					
		0.5-5	56	46					
		0.5-30 60 50							
Test setup:	*	Decreases with the logarith	m of the frequency.						
Test procedure	H.	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test U.SN: Line Impedence Stabilization Network Test table height=0.8m The E.U.T and simulators	Filter — AC	power					
rest procedure	2	line impedance stabilizations line impedance stabilization 500hm/50uH coupling imposed 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.). The dedance for the measure also connected to the ohm/50uH coupling in a to the block diagram are checked for maximum d the maximum emist d all of the interface of	The provide a uring equipment. The main power through a pedance with 500hm at of the test setup and a conducted asion, the relative stables must be changed					
Test environm	ent: T	emp.: 23 °C Hun	nid.: 56% F	Press.: 1 01kPa					
Measurement	Record:			Uncertainty: 3.28dB					
Test Instrumer	nts: R	defer to section 5.7 for detai	ls	·					
Test mode:	R	defer to section 5.3 for detail	ls						

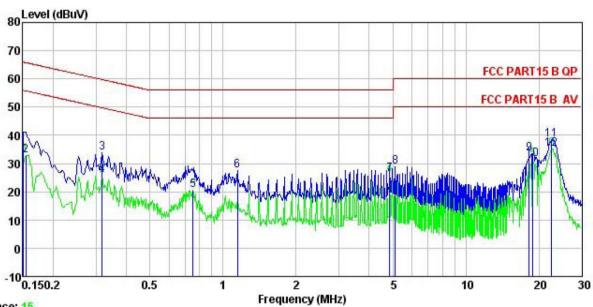




Measurement data:

Test voltage: AC 120V/60Hz

Line:



Trace: 15

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

EUT : Mobile Phone Test Mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: MT
Remark : MXW2

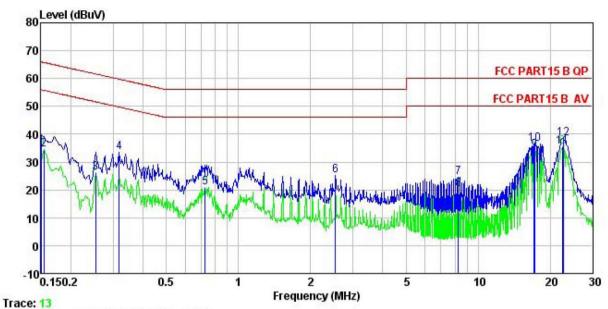
Remark

Kemark	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
-	MHz	dBu₹	<u>dB</u>	<u>d</u> B	dBu₹	dBu₹	<u>dB</u>	
1	0.150	30.17	0.27	10.78	41.22	66.00	-24.78	QP
2	0.154	21.95	0.27	10.78	33.00	55.78	-22.78	Average
3	0.318	22.87	0.26	10.74	33.87	59.75	-25.88	QP
1 2 3 4 5 6 7 8 9	0.318	14.74	0.26	10.74	25.74	49.75	-24.01	Average
5	0.751	9.57	0.23	10.79	20.59	46.00	-25.41	Average
6	1.147	16.25	0.25	10.89	27.39	56.00	-28.61	QP
7	4.848	15.01	0.29	10.86	26.16	46.00	-19.84	Average
8	5.112	17.74	0.30	10.85	28.89	60.00	-31.11	QP
9	18.232	22.39	0.33	10.91	33.63	60.00	-26.37	QP
10	18.920	20.10	0.34	10.92	31.36	50.00	-18.64	Average
11	22.416	27.26	0.43	10.90	38.59	60.00	-21.41	QP
12	22.535	23.97	0.44	10.89	35.30	50.00	-14.70	Average





Neutral:



Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : Mobile Phone Condition

EUT Model : MXW2
Test Mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: MT

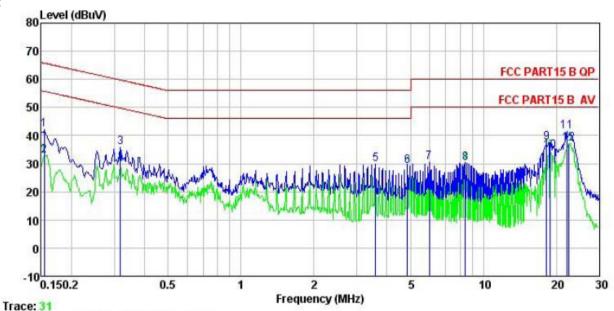
Kemark	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>ab</u>	<u>ab</u>	dBu∇	—dBu∇	<u>dB</u>	
1	0.150	28.72	0.25	10.78	39.75	66.00	-26.25	QP
2	0.154	23.33	0.25	10.78	34.36	55.78	-21.42	Average
3	0.253	15.12	0.26	10.75	26.13	51.64	-25.51	Average
1 2 3 4 5 6 7 8 9	0.318	22.67	0.26	10.74	33.67	59.75	-26.08	QP
5	0.727	9.92	0.18	10.78	20.88	46.00	-25.12	Average
6	2.540	13.87	0.29	10.94	25.10	56.00	-30.90	QP
7	8.279	13.47	0.26	10.86	24.59	60.00	-35.41	QP
8	8.279	9.11	0.26	10.86	20.23	50.00	-29.77	Average
9	17.109	23.00	0.25	10.91	34.16	50.00	-15.84	Average
10	17.199	25.29	0.25	10.91	36.45	60.00	-23.55	QP
11	22.416	24.30	0.37	10.90	35.57	50.00	-14.43	Average
12	22.655	27.29	0.38	10.89	38.56	60.00	-21.44	QP





Test voltage: AC 240V/60Hz

Line:



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

: Mobile Phone

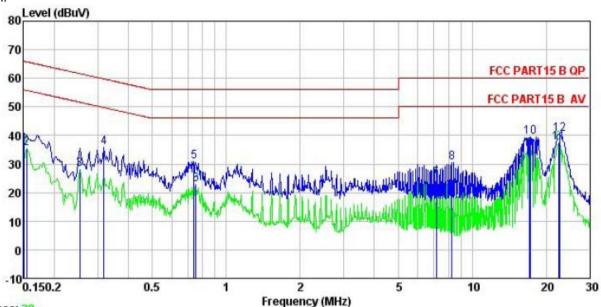
Model : MXW2
Test Mode : PC Mode
Power Rating : AC240V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: MT
Remark :

Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBu∜	<u>dB</u>	₫B	dBu₹	dBu√	dB	
0.154	30.94	0.27	10.78	41.99	65.78	-23.79	QP
0.154	21.95	0.27	10.78	33.00	55.78	-22.78	Average
0.318	24.87	0.26	10.74	35.87	59.75	-23.88	QP
0.318	18.74	0.26	10.74	29.74	49.75	-20.01	Average
3.584	18.82	0.28	10.90	30.00	56.00	-26.00	QP
4.848	18.01	0.29	10.86	29.16	46.00	-16.84	Average
5.993	19.34	0.31	10.82	30.47	60.00	-29.53	QP
8.412	18.92	0.31	10.87	30.10	50.00	-19.90	Average
18.232	26.39	0.33	10.91	37.63	60.00	-22.37	QP
18.920	23.10	0.34	10.92	34.36	50.00	-15.64	Average
22.063	30.10	0.42	10.90	41.42	60.00	-18.58	QP
22.535	25.97	0.44	10.89	37.30	50.00	-12.70	Average
	MHz 0. 154 0. 154 0. 318 0. 318 3. 584 4. 848 5. 993 8. 412 18. 232 18. 920 22. 063	MHz dBuV 0.154 30.94 0.154 21.95 0.318 24.87 0.318 18.74 3.584 18.82 4.848 18.01 5.993 19.34 8.412 18.92 18.232 26.39 18.920 23.10 22.063 30.10	### Level Factor ###################################	MHz dBuV dB dB 0.154 30.94 0.27 10.78 0.154 21.95 0.27 10.78 0.318 24.87 0.26 10.74 0.318 18.74 0.26 10.74 3.584 18.82 0.28 10.90 4.848 18.01 0.29 10.86 5.993 19.34 0.31 10.82 8.412 18.92 0.31 10.87 18.232 26.39 0.33 10.91 18.920 23.10 0.34 10.92 22.063 30.10 0.42 10.90	MHz dBuV dB dB dBuV 0.154 30.94 0.27 10.78 41.99 0.154 21.95 0.27 10.78 33.00 0.318 24.87 0.26 10.74 35.87 0.318 18.74 0.26 10.74 29.74 3.584 18.82 0.28 10.90 30.00 4.848 18.01 0.29 10.86 29.16 5.993 19.34 0.31 10.82 30.47 8.412 18.92 0.31 10.87 30.10 18.232 26.39 0.33 10.91 37.63 18.920 23.10 0.34 10.92 34.36 22.063 30.10 0.42 10.90 41.42	MHz dBuV dB dB dBuV dBuV 0.154 30.94 0.27 10.78 41.99 65.78 0.154 21.95 0.27 10.78 33.00 55.78 0.318 24.87 0.26 10.74 35.87 59.75 0.318 18.74 0.26 10.74 29.74 49.75 3.584 18.82 0.28 10.90 30.00 56.00 4.848 18.01 0.29 10.86 29.16 46.00 5.993 19.34 0.31 10.82 30.47 60.00 8.412 18.92 0.31 10.87 30.10 50.00 18.232 26.39 0.33 10.91 37.63 60.00 18.920 23.10 0.34 10.92 34.36 50.00 22.063 30.10 0.42 10.90 41.42 60.00	MHz dBuV dB dB dBuV dBuV dB 0.154 30.94 0.27 10.78 41.99 65.78 -23.79 0.154 21.95 0.27 10.78 33.00 55.78 -22.78 0.318 24.87 0.26 10.74 35.87 59.75 -23.88 0.318 18.74 0.26 10.74 29.74 49.75 -20.01 3.584 18.82 0.28 10.90 30.00 56.00 -26.00 4.848 18.01 0.29 10.86 29.16 46.00 -16.84 5.993 19.34 0.31 10.82 30.47 60.00 -29.53 8.412 18.92 0.31 10.87 30.10 50.00 -19.90 18.232 26.39 0.33 10.91 37.63 60.00 -22.37 18.920 23.10 0.34 10.92 34.36 50.00 -15.64 22.063 30.10 0.42





Neutral:



Trace: 29

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

: Mobile Phone

Model : MXW2

Test Mode : PC Mode

Power Rating : AC240V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: MT

Remork

Remark

Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBu∀	dB	₫B	dBu₹	dBu₹	dB	
0.150	29.72	0.25	10.78	40.75	66.00	-25.25	QP
0.154	24.33	0.25	10.78	35.36	55.78	-20.42	Average
0.253	17.12	0.26	10.75	28.13	51.64	-23.51	Average
0.318	24.67	0.26	10.74	35.67	59.75	-24.08	QP
0.739	19.83	0.19	10.79	30.81	56.00	-25.19	QP
0.751	11.78	0.19	10.79	22.76	46.00	-23.24	Average
7.137	13.68	0.26	10.81	24.75	50.00	-25.25	Average
8.279	19.47	0.26	10.86	30.59	60.00	-29.41	QP
17.109	24.00	0.25	10.91	35.16	50.00	-14.84	Average
17.199	28.29	0.25	10.91	39.45	60.00	-20.55	QP
22.416	26.30	0.37	10.90	37.57	50.00	-12.43	Average
22.655	29.29	0.38	10.89	40.56			
	Freq 0.150 0.154 0.253 0.318 0.739 0.751 7.137 8.279 17.109 17.199 22.416	Read Level MHz dBuV 0.150 29.72 0.154 24.33 0.253 17.12 0.318 24.67 0.739 19.83 0.751 11.78 7.137 13.68 8.279 19.47 17.109 24.00 17.199 28.29 22.416 26.30	Read LISN Level Factor MHz dBuV dB 0.150 29.72 0.25 0.154 24.33 0.25 0.253 17.12 0.26 0.318 24.67 0.26 0.739 19.83 0.19 0.751 11.78 0.19 7.137 13.68 0.26 8.279 19.47 0.26 17.109 24.00 0.25 17.199 28.29 0.25 22.416 26.30 0.37	Read LISN Cable Freq Level Factor Loss MHz dBuV dB dB 0.150 29.72 0.25 10.78 0.154 24.33 0.25 10.78 0.253 17.12 0.26 10.75 0.318 24.67 0.26 10.74 0.739 19.83 0.19 10.79 0.751 11.78 0.19 10.79 0.751 11.78 0.19 10.79 7.137 13.68 0.26 10.81 8.279 19.47 0.26 10.86 17.109 24.00 0.25 10.91 17.199 28.29 0.25 10.91 22.416 26.30 0.37 10.90	Read LISN Cable Level Factor Loss Level MHz dBuV dB dB dB dBuV 0.150 29.72 0.25 10.78 40.75 0.154 24.33 0.25 10.78 35.36 0.253 17.12 0.26 10.75 28.13 0.318 24.67 0.26 10.74 35.67 0.739 19.83 0.19 10.79 30.81 0.751 11.78 0.19 10.79 22.76 7.137 13.68 0.26 10.81 24.75 8.279 19.47 0.26 10.86 30.59 17.109 24.00 0.25 10.91 35.16 17.199 28.29 0.25 10.91 39.45 22.416 26.30 0.37 10.90 37.57	Read LISN Cable Limit Loss Level Line MHz dBuV dB dB dB dBuV dBuV 0.150 29.72 0.25 10.78 40.75 66.00 0.154 24.33 0.25 10.78 35.36 55.78 0.253 17.12 0.26 10.75 28.13 51.64 0.318 24.67 0.26 10.74 35.67 59.75 0.739 19.83 0.19 10.79 30.81 56.00 0.751 11.78 0.19 10.79 30.81 56.00 0.751 11.78 0.19 10.79 22.76 46.00 7.137 13.68 0.26 10.81 24.75 50.00 8.279 19.47 0.26 10.86 30.59 60.00 17.109 24.00 0.25 10.91 35.16 50.00 17.109 24.00 0.25 10.91 35.16 50.00 17.199 28.29 0.25 10.91 39.45 60.00 22.416 26.30 0.37 10.90 37.57 50.00	Read LISN Cable Limit Limit Over Limit MHz dBuV dB dB dBuV dBuV dB 0.150 29.72 0.25 10.78 40.75 66.00 -25.25 0.154 24.33 0.25 10.78 35.36 55.78 -20.42 0.253 17.12 0.26 10.75 28.13 51.64 -23.51 0.318 24.67 0.26 10.74 35.67 59.75 -24.08 0.739 19.83 0.19 10.79 30.81 56.00 -25.19 0.751 11.78 0.19 10.79 22.76 46.00 -23.24 7.137 13.68 0.26 10.81 24.75 50.00 -25.25 8.279 19.47 0.26 10.86 30.59 60.00 -29.41 17.109 24.00 0.25 10.91 35.16 50.00 -29.41 17.199 28.29 0.25 10.91 39.45 60.00

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 S	Section 1	5 100					
Test Method:								
	ANSI C63.4:2009							
Test Frequency Range:	30MHz to 6000N							
Test site:	Measurement D	istance:	3m (Se					
Receiver setup:	Frequency	Detec		RBW	VBV		Remark	
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value	
	Above 1GHz	Pea		1MHz	3MHz		Peak Value	
		Pea		1MHz	10H	Z	Average Value	
Limit:	Frequency		Limi	t (dBuV/m @	∮3m)		Remark	
	30MHz-88M			40.0			Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
	216MHz-960I			46.0			Quasi-peak Value	
	960MHz-1G	HZ		54.0		(Quasi-peak Value	
	Above 1GF	lz	54.0			Average Value		
Test setup:			74.0				Peak Value	
	Turn Table 0.8 Table O.8 A Above 1GHz	4m		Si	Antenna Searcl Antenn RF Test Receiver — Antenna Tow Horn Antenna Dectrum nalyzer Amplifier	h h na	iii iii ii i	





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								

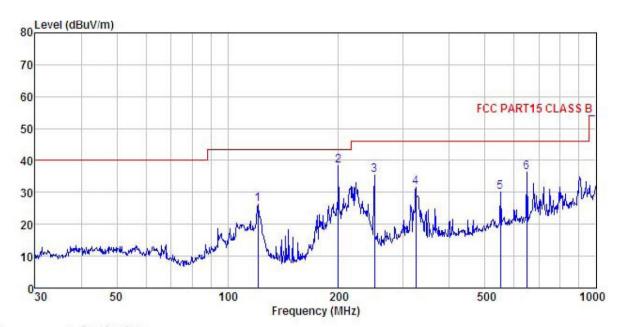




Measurement Data

Below 1GHz

Horizontal:



Site

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

: 450RF Pro

EUT : Mobile Phone Model : MXW2 Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: MT

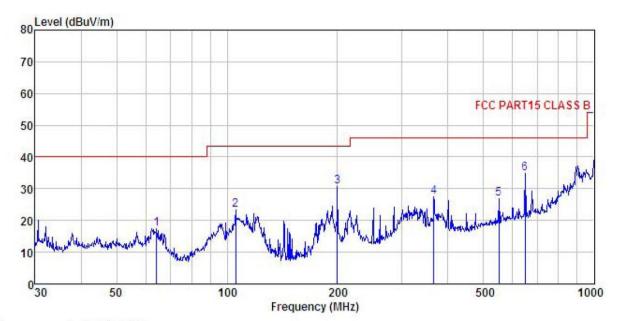
Remark

Freq								Remark
MHz	dBu∀	dB/m		dB	$\overline{dBuV/m}$	dBuV/m	dB	
120.699	44.17	10.38	1.13	29.39	26.29	43.50	-17.21	QP
199.986	55.18	10.57	1.38	28.83	38.30	43.50	-5.20	QP
250.301	50.23	12.07	1.62	28.54	35.38	46.00	-10.62	QP
324.456	44.72	13.53	1.86	28.51	31.60	46.00	-14.40	QP
550.948	39.18	17.57	2.54	29.10	30.19	46.00	-15.81	QP
649.660	43.75	18.64	2.79	28.78	36.40	46.00	-9.60	QP
	MHz 120. 699 199. 986 250. 301 324. 456 550. 948	Freq Level MHz dBuV 120.699 44.17 199.986 55.18 250.301 50.23 324.456 44.72 550.948 39.18	Freq Level Factor MHz dBuV dB/m 120.699 44.17 10.38 199.986 55.18 10.57 250.301 50.23 12.07 324.456 44.72 13.53 550.948 39.18 17.57	MHz dBuV dB/m dB 120.699 44.17 10.38 1.13 199.986 55.18 10.57 1.38 250.301 50.23 12.07 1.62 324.456 44.72 13.53 1.86 550.948 39.18 17.57 2.54	MHz dBuV dB/m dB dB 120.699 44.17 10.38 1.13 29.39 199.986 55.18 10.57 1.38 28.83 250.301 50.23 12.07 1.62 28.54 324.456 44.72 13.53 1.86 28.51 550.948 39.18 17.57 2.54 29.10	MHz dBuV dB/m dB dB dB dBuV/m 120.699 44.17 10.38 1.13 29.39 26.29 199.986 55.18 10.57 1.38 28.83 38.30 250.301 50.23 12.07 1.62 28.54 35.38 324.456 44.72 13.53 1.86 28.51 31.60 550.948 39.18 17.57 2.54 29.10 30.19	MHz dBuV dB/m dB dB dB dBuV/m dBuV/m dBuV/m 120.699 44.17 10.38 1.13 29.39 26.29 43.50 199.986 55.18 10.57 1.38 28.83 38.30 43.50 250.301 50.23 12.07 1.62 28.54 35.38 46.00 324.456 44.72 13.53 1.86 28.51 31.60 46.00 550.948 39.18 17.57 2.54 29.10 30.19 46.00	Freq Level Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dBuV/m dB 120.699 44.17 10.38 1.13 29.39 26.29 43.50 -17.21 199.986 55.18 10.57 1.38 28.83 38.30 43.50 -5.20 250.301 50.23 12.07 1.62 28.54 35.38 46.00 -10.62 324.456 44.72 13.53 1.86 28.51 31.60 46.00 -14.40 550.948 39.18 17.57 2.54 29.10 30.19 46.00 -15.81





Vertical:



Site

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

Pro : 450RF : Mobile Phone EUT : MXW2 Model

Test mode : PC Mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: MT

Remark

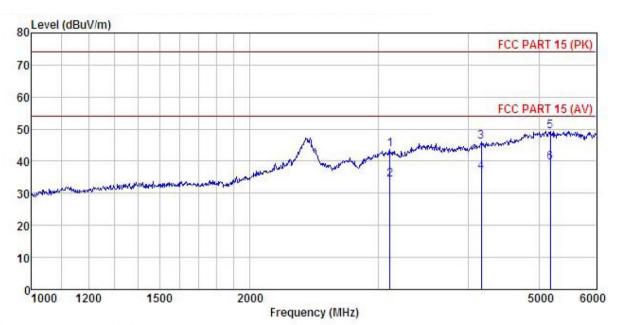
CHILLY									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
=	MHz	dBu∜	dB/m	dB	dB	dBuV/m	dBu√/m	dB	
1	64.208	35.46	10.97	0.74	29.76	17.41	40.00	-22.59	QP
2	105.642	39.30	12.63	1.01	29.49	23.45	43.50	-20.05	QP
3	199.986	47.50	10.57	1.38	28.83	30.62	43.50	-12.88	QP
4	365.539	39.72	14.48	2.00	28.63	27.57	46.00	-18.43	QP
4 5	550.948	35.82	17.57	2.54	29.10	26.83	46.00	-19.17	QP
6	649.660	42.06	18.64	2.79	28.78	34.71	46.00	-11.29	QP





Above 1GHz

Horizontal:



Site

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

: 450RF Pro

EUT : Mobile Phone

Model : MXW2 Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

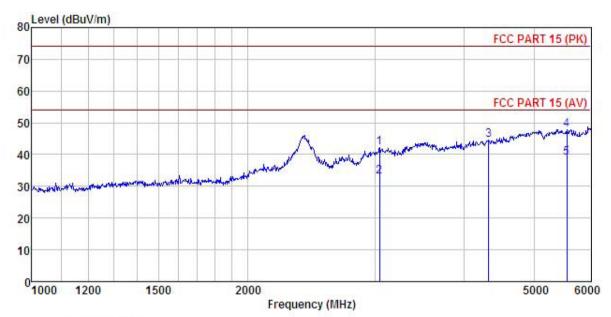
Test Engineer: MT Remark

mark	:									
		Read	Ant enna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
-	MHz	dBu∜	<u>dB</u> /m	dB	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>		
1	3115.568	47.47	28.76	8.05	40.62	43.66	74.00	-30.34	Peak	
2	3115.568	38.05	28.76	8.05	40.62	34.24	54.00	-19.76	Average	
3	4163.484	46.99	30.15	9.82	40.99	45.97	74.00	-28.03	Peak	
4	4163.484	37.76	30.15	9.82	40.99	36.74	54.00	-17.26	Average	
5	5187.438	46.52	31.96	11.01	40.08	49.41	74.00	-24.59	Peak	
6	5187.438	36.56	31.96	11.01	40.08	39.45	54.00	-14.55	Average	





Vertical:



Site

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

Pro : 450RF : Mobile Phone EUT

Model : MXW2
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: MT

Remark

	Freq		Antenna Factor				Limit Line	Over Limit	Remark	
ā	MHz	dBu₹	dB/m	₫B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
1 2	3049.588 3049.588		T15000000000000000000000000000000000000	7.93 7.93		42.13 33.06			Peak Average	
2	4320.298	44.85		10.01		44.45				
4 5	5553.047 5553.047	44.67 35.67							Peak Average	