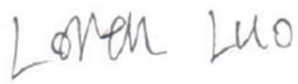
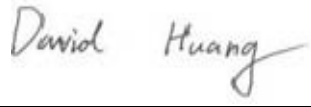


RF EXPOSURE REPORT



Report No.: 16070898-FCC-H2

Supersede Report No.: N/A

Applicant	Unimax Communications	
Product Name	Mobile Phone	
Model No.	MXG-408	
Serial No.	N/A	
Test Standard	FCC 2.1093:2015	
Test Date	July 22 to August 15, 2016	
Issue Date	August 16, 2016	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification ☒		
Equipment did not comply with the specification ☐		
		
Loren Luo Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070898-FCC-H2	NONE	Original	August 16, 2016

2. Customer information

Applicant Name	Unimax Communications
Applicant Add	18201 Mcdurmott St. West Suite E, Irvine, CA 92614
Manufacturer	Unimax Communications LLC
Manufacturer Add	18201 Mcdurmott St. West Suite E, Irvine, CA 92614

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT:	Mobile Phone
Main Model:	MXG-408
Serial Model:	N/A
Date EUT received:	July 21, 2016
Test Date(s):	July 22 to August 15, 2016
Antenna Gain:	GSM850: 0.33dBi PCS1900: 3.92dBi UMTS-FDD Band V: 0.33dBi UMTS-FDD Band II: 3.92dBi Bluetooth/BLE/WIFI: 1.98dBi
Antenna Type:	PIFA antenna
Type of Modulation:	GSM / GPRS: GMSK EGPRS: GMSK,8PSK UMTS-FDD: QPSK 802.11b/g/n: DSSS, OFDM Bluetooth: GFSK, π /4DQPSK, 8DPSK BLE: GFSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz; RX: 1932.4 ~ 1987.6 MHz WIFI: 802.11b/g/n(20M): 2412-2462 MHz WIFI: 802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

Number of Channels: GSM 850: 124CH
PCS1900: 299CH
UMTS-FDD Band V : 102CH
UMTS-FDD Band II : 277CH
WIFI :802.11b/g/n(20M): 11CH
WIFI :802.11n(40M): 7CH
Bluetooth: 79CH
BLE: 40CH

Port: Earphone Port, USB Port

Input Power: Adapter:
Model:UMXCHG
Input: AC 100-240V~50/60Hz;0.15A
Output: DC 5.0V,500mA
Battery:
Model:BU1350
Spec: 3.7V,1350mAh(4.995Wh)

Trade Name : Unimax Communications

FCC ID: P46-UMX40INT

5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

5.2 Test Result

Bluetooth Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	0.608	1±1	2	1.585	0.49	3
	Mid	2441	1.298	1±1	2	1.585	0.50	3
	High	2480	1.047	1±1	2	1.585	0.50	3
π /4 DQPSK	Low	2402	1.390	1.5±1	2.5	1.778	0.55	3
	Mid	2441	1.988	1.5±1	2.5	1.778	0.56	3
	High	2480	1.837	1.5±1	2.5	1.778	0.56	3
8-DPSK	Low	2402	1.270	1.5±1	2.5	1.778	0.55	3
	Mid	2441	1.880	1.5±1	2.5	1.778	0.56	3
	High	2480	1.736	1.5±1	2.5	1.778	0.56	3

WIFI Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
802.11b	Low	2412	8.66	8.5±1	9.5	8.913	2.77	3
	Mid	2442	8.31	8.5±1	9.5	8.913	2.78	3
	High	2472	8.02	8.5±1	9.5	8.913	2.80	3
802.11g	Low	2412	8.96	8.5±1	9.5	8.913	2.77	3
	Mid	2442	8.53	8.5±1	9.5	8.913	2.78	3
	High	2472	9.07	8.5±1	9.5	8.913	2.80	3
802.11n (20M)	Low	2412	8.98	8.5±1	9.5	8.913	2.77	3
	Mid	2442	8.55	8.5±1	9.5	8.913	2.78	3
	High	2472	9.02	8.5±1	9.5	8.913	2.80	3

BLE Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	-0.451	0.5±1	1.5	1.413	0.44	3
	Mid	2440	0.659	0.5±1	1.5	1.413	0.44	3
	High	2480	0.946	0.5±1	1.5	1.413	0.44	3

Result: Compliance

No SAR measurement is required.