RF EXPOSURE REPORT

Report No.: 16050009-FCC-H2

Supersede Report No.: N/A

Applicant	Micron Electronics LLC.
Product Name	Tracker
Model No.	Prime One X
Serial No.	N/A
Test Standard	FCC 2.1093:2014
Test Date	February 26 to March 10 , 2016
Issue Date	March 11, 2016
Test Result	☑ Pass ☐ Fail
Equipment complied with the specification	☑
Equipment did not comply with the specification	☐

Winnie Zhang	David Huang	
Winnie Zhang 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

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn

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

This page has been left blank intentionally.

CONTENTS

1. Report Revision History

Report No.	Report Version	Description	Issue Date
16050009-FCC-H2	NONE	Original	March 11, 2016

2. Customer information

Applicant Name	Micron Electronics LLC.
Applicant Add	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA
Manufacturer	Micron Electronics LLC.
Manufacturer Add	1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA

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:	Tracker
Main Model:	Prime One X
Serial Model:	N/A
Date EUT received:	February 25，2016
Test Date(s):	February 26 to March 10，2016
Antenna Gain:	Cellular CDMA:0dBi PCS CDMA:1.8dBi WIFI: 1.8dBi GPS: -3.4dBi
Type of Modulation:	CDMA: QPSK WIFI: 802.11b/g/n: DSSS, OFDM GPS: BPSK
RF Operating Frequency (ies):	Cellular CDMA TX: 824.7 ~ 848.37 MHz; RX: 869.7 ~ 893.37 MHz PCS CDMA TX: 1851.25 ~ 1908.75 MHz; RX: 1931.25 ~ 1988.75 MHz WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz GPS RX:1575.42 MHz
Input Power:	Adapter: Model:K05100-3 Input: AC 100-240V; 50/60Hz;0.3A Output: DC 5.0V,1000mA Battery: Model:Prime one Capacity: 3.8V,850mAh,3.23Wh Charge Voltage:4.35V
Port:	USB Port

Trade Name : Prime

FCC ID: ZKQ-1X

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:

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

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[17]
- 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.

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

WIFI Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
802.11b	Low	2412	**9.51**	8.55±1	9.55	9.016	2.80	3
	Mid	2437	9.01	8.55±1	9.55	9.016	2.81	3
	High	2462	8.74	8.55±1	9.55	9.016	2.83	3
802.11g	Low	2412	**9.41**	8.5±1	9.5	8.913	2.77	3
	Mid	2437	9.13	8.5±1	9.5	8.913	2.78	3
	High	2462	8.73	8.5±1	9.5	8.913	2.80	3
802.11n (20M)	Low	2412	9.30	8.5±1	9.5	8.913	2.77	3
	Mid	2437	**9.37**	8.5±1	9.5	8.913	2.78	3
	High	2462	9.02	8.5±1	9.5	8.913	2.80	3
802.11n (40M)	Low	2422	**9.28**	8.5±1	9.5	8.913	2.77	3
	Mid	2437	9.09	8.5±1	9.5	8.913	2.78	3
	High	2452	9.15	8.5±1	9.5	8.913	2.79	3

Result: Compliance

No SAR measurement is required.