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## Supplementary RF Exposure Report

**Report No.:** SA120522E09N-1

**FCC ID:** UZ7MC92N0

**Test Model:** MC92N0

**Received Date:** Mar. 23, 2015

**Test Date:** Apr. 13, 2015

**Issued Date:** May 13, 2015

**Applicant:** Zebra Technologies Corporation

**Address:** 1 Zebra Plaza, Holtsville, NY 11742

**Manufacturer:** Symbol Technologies, Inc.

**Address:** 1 Zebra Plaza, Holtsville, NY 11742

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

**Lab Address:** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin  
Chu Hsien 307, Taiwan R.O.C.

**Test Location (1):** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin  
Chu Hsien 307, Taiwan R.O.C.

**Test Location (2):** No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin  
Chu Hsien 307, Taiwan R.O.C.

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**Report Issue History Record of EUT (MC92N0)**

| Attachment No. | Issue Date    | Description                                                                                                                               |
|----------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 120522E09      | Aug. 08, 2012 | Original                                                                                                                                  |
| 120522E09N     | May 13, 2015  | 1. Added Bluetooth 4.0 technology used for the EUT<br>2. Added new SKU: SE4750<br>3. Changed the battery<br>4. Changed the version of EUT |

**Release Control Record**

| Issue No.      | Description       | Date Issued  |
|----------------|-------------------|--------------|
| SA120522E09N-1 | Original release. | May 13, 2015 |

## 1 Certificate of Conformity

**Product:** Mobile Computer

**Brand:** Symbol

**Test Model:** MC92N0

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Zebra Technologies Corporation

**Test Date:** Apr. 13, 2015

**Standards:** FCC Part 2 (Section 2.1093)

KDB 447498 D03

IEEE C95.1

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** May 13, 2015  
Elsie Hsu / Specialist

**Approved by :**  , **Date:** May 13, 2015  
May Chen / Manager

## 2 Evaluation Result

Following FCC KDB 447498 D01 “General SAR test exclusion guidance”

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  
$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot [\sqrt{f(\text{GHz})}]$$
$$\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
  - $f(\text{GHz})$  is the RF channel transmit frequency in GHz.
  - Power and distance are rounded to the nearest mW and mm before calculation.
  - The result is rounded to one decimal place for comparison. The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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.
- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50mm) · (  $f(\text{MHz})/150$ )] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

### 3 SAR Test Exclusion Thresholds

There are Bluetooth technology and WLAN technology used for the EUT.  
This report has recorded the No SAR evaluation at the Bluetooth technology.

#### For BT EDR

| Frequency (GHz) | Max. Power (mW) | Min. test separation distance (mm) | SAR test exclusion calculation value <sup>(NOTE 2)</sup> | 10-g extremity SAR test exclusion thresholds | Result |
|-----------------|-----------------|------------------------------------|----------------------------------------------------------|----------------------------------------------|--------|
| 2.402 ~ 2.480   | 2.636           | 5                                  | 0.8302                                                   | 7.5                                          | Pass   |

**NOTE:** 1. The antenna type is Chip antenna with -3.31dBi gain.  
2. Calculate SAR test exclusion thresholds from condition "1" formulas.

#### For BT LE

| Frequency (GHz) | Max. Power (mW) | Min. test separation distance (mm) | SAR test exclusion calculation value <sup>(NOTE 2)</sup> | 10-g extremity SAR test exclusion thresholds | Result |
|-----------------|-----------------|------------------------------------|----------------------------------------------------------|----------------------------------------------|--------|
| 2.402 ~ 2.480   | 2.158           | 5                                  | 0.6797                                                   | 7.5                                          | Pass   |

**NOTE:** 1. The antenna type is Chip antenna with -3.31dBi gain.  
2. Calculate SAR test exclusion thresholds from condition "1" formulas.

### 4 Conclusion

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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