

Certification Exhibit

FCC ID: U4A-MODBLE9052

IC: 6982A-MODBLE9052

FCC Rule Part: 15.247

IC Radio Standards Specification: RSS-247

ACS Project Number: 15-0143

Manufacturer: Assa Abloy Inc.

Model: BLE9052

RF Exposure

General Information:

Applicant: Assa Abloy Inc.
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Dipole Antenna
 Antenna Gain: 1.05 dBi
 Maximum Transmitter Conducted Power: 0.35 dBm, 1.08 mW
 Maximum System EIRP: 1.4 dBm, 1.38 mW
 Exposure Conditions: Greater than 20 centimeters

Per IC RSS-102 Issue section 2.5.2, this device is exempt from routine RF exposure evaluation. The source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834} \text{ W}$ (adjusted for tune-up tolerance), where f is 2405 MHz;

$$1.31 \times 10^{-2} 2475^{0.6834} \text{ W} = 2.7 \text{ W EIRP}$$

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

MPE Calculator for Mobile Equipment							
Limits for General Population/Uncontrolled Exposure*							
Transmit Frequency (MHz)	Radio Power (dBm)	Power Density Limit (mW/Cm2)	Radio Power (mW)	Antenna Gain (dBi)	Antenna Gain (mW eq.)	Distance (cm)	Power Density (mW/cm^2)
2480	0.35	1.00	1.08	1.05	1.274	20	0.0003