Exhibit: RF Exposure – FCC

FCC ID: XEY-ZX-MS
IC: 8410A-ZXMS

SAR Calculations: 902.8 – 927.7 MHz FHSS transmitter

The EUT contains a 902 – 928 MHz FHSS transmitters. The firmware guarantees simultaneous operation will not occur and therefore antenna co-location testing is not applicable. This device is designed to be operated handheld and for the purpose of demonstrating compliance with MPE requirements and SAR exemption; we present for a worst case 5mm distance and 100 % duty cycle.

FCC Requirements: SAR test exclusion guidance

As per FCC KDB 447498 D01 Section 4.3.1 a), the 1-g extremity SAR Test Exclusion Threshold for 100 MHz to 6 GHz at test separation distances ≤ 50 mm is determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] [$\sqrt{}$f(GHz)] ≤ 3.0

Performing the calculation, of the worst case mentioned above, using the maximum power measured of 11.83mW (see Table 16, page 26 on TR-7169005571-FCC-ISED-ZX Motion Sensor.pdf) yields to:

$$\frac{11.83}{5} \cdot \sqrt{0.927525} = 2.28,$$

2.28 is below the 3.0 worst case limit, so this device complies with FCC requirements

ISED Requirements: SAR test exclusion guidance

As per Table 1 in RSS-102, Section 2.5.1 at 1900MHz is 7mW at 5mm or less.

This device has effective isotropic radiated power (as worst-case vertical polarization at 915MHz, with a peak value of 100 dBµV/m[i] - 95.2 (factor to convert to EIRP at 3 meters) of 4.8dBm, or 3mW.

- 3mW is less than 7mW limit as per section 2.5.1 on RS-102, thus the device meets the exception rules.

[i] See Graph 21 in page 58 in TR-7169005571-FCC-ISED-ZX Motion Sensor.pdf