RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

| Product Description | Z-Wave Siren |
|---------------------|---------------|
| Model Name | NAS-AB02Z |
| FCC ID | Z52NAS-AB02WO |

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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:

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

Where f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

According to the follow transmitter output power (Pt) formula: Pt= (E x d) 2 / (30 x gt) Pt=transmitter output power in watts gt=numeric gain of the transmitting antenna (unitess) E=electric field strength in V/m d=measurement distance in meters (m)

 $P_t=0.01mW$

The result for RF exposure evaluation SAR=(0.01mW /5mm) .[$\sqrt{0.9084}$ (GHz)]= 0.002<3.0 for 1-g SAR

4. CONCLUSION

The SAR evaluation is not required.