

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Visit Smoke alarm transmitter
Model Name	BE1284
FCC ID	2APAKBE1284

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 ≤ 50 mm are determined by:

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

3. CALCULATION

According to the follow transmitter output power (P_t) formula :

$$P_t = (E \times d)^2 / (30 \times g_t)$$

P_t =transmitter output power in watts

g_t =numeric gain of the transmitting antenna (unitless)

E=electric field strength in V/m

d=measurement distance in meters (m)

$$P_t = 0.014 \text{ mW}$$

The result for RF exposure evaluation

$$\text{SAR} = (0.014 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{0.43392(\text{GHz})}] = 0.0018 < 3.0 \text{ for 1-g SAR}$$

4. CONCLUSION

The SAR evaluation is not required.



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