FCC ID: SZO-RR02

SAR exclusion threshold justification

The SAR exclusion threshold is calculated according to KDB 447498 D01 4.3.1.1:
Formula:

(power of channel, mW)/(min. test separation distance, mm)] [√f(GHz)] ≤ 3.0

Power of channel is calculated by use of maximum conducted peak power measured (=16.4dBm).
Duty cycle correction (=-30.6dB) is applied to calculate the average value.
Both values are taken out of test report T39567-00-01JP.
Antenna gain (=3dBi) is taken out of the antenna data sheet Laird – RD2458 (ANT-SPEC-RD2458-0408) for the 2.4GHz band.

Calculation:

Radiated power of channel

16.4dBm-30.6dB+3dBi = -11.2dBm

-11.2dBm = 0.08mW

Calculation of exclusion threshold

(0.08mW/5mm)x2.48GHz = 0.04

Result

The calculation shows that the 1-g SAR exclusion threshold of 3.0 is kept at a distance of 5mm and at the highest used frequency of 2480MHz.