

4 FCC §15.247 (i), §2.1093 & IC RSS-102 - RF Exposure Information

4.1 Applicable Standards

FCC §15.247(i) and §2.1093. According to KDB 447498 1) c), portable device with output power $>60/f_{\text{GHz}}$ mW shall include SAR data for equipment approval.

IC RSS-102 §2.5.1, above 2.2 GHz up to 3 GHz, if the output power (the higher of the conducted or radiated – EIRP, source-based time Average output) is less than or equal to 20 mW for general public use and 100 mW for controlled use, SAR evaluation can be exempted.

4.2 Results

Maximum peak output power of device: -0.49 dBm

Antenna Gain: 3.3 dBi

EIRP = $-0.49 + 3.3 = 2.81$ dBm = 1.91 mW

$60/f_{\text{GHz}} = 60/2.440 = 24.59$ mW

The EIRP of EUT was less than the SAR threshold; the SAR measurement is not required.