

Exclusion from SAR Evaluation per FCC Low threshold:

Please refer to the location of transmitting antenna on the IBM Laptop. Per location of the antenna, the distance from the user will be greater than 2.5 cm. The following formula was used to determine if SAR evaluation is required or not for TCB approval.

$$(120/f_{\text{GHz}}) \text{ mW}, d \geq 2.5 \text{ cm}$$

$$(120/2.441) = 49.16 \text{ mW}$$

EUT transmitter is 3.7 dBm + 1.5 dBi = 5.22 dBm EIRP

The maximum EIRP transmission power is 3.32 mW (5.22dBm)

Since the transmitter power output is less than 49.16 mW, it is excluded from SAR evaluation per the TCB Exclusion List.

Actiontec has provided installation instructions to show how the antenna is to be installed in the Laptop and the antenna that has been approved with the module must be used.