RF Exposure Evaluation

The EUT is a Wireless Module used in a mobile application. It will be located at least 20 cm from any body part of the user or nearby persons. For mobile wireless devices the RF Exposure Limit is Maximum Permissible Exposure (MPE).

The maximum conducted output power is 18.9 dBm (78 mW); maximum antenna gain is 2.0 dBi.
Therefore, to comply with RF Exposure Requirement, the MPE is calculated.
The maximum Peak EIRP calculated is 0.123 W.

The Power Density can be calculated using the formula
$S = EIRP/ 4\pi D^2$
Where: S is Power Density in W/m^2
D is the distance from the antenna in meters.

It is considered that 20 cm is the minimum distance that any persons will be next to the EUT.
At 0.2 m, $S = 0.245\ W/m^2$, which is below the FCC MPE Limit of $10\ W/m^2$ for uncontrolled environment.