

MPE CALCULATION (FCC ID: 2ALBDPT30U)

RF Exposure Requirements: 47 CFR §1.1307(b)
RF Radiation Exposure Limits: 47 CFR §1.1310
RF Radiation Exposure Guidelines: FCC OST/OET Bulletin Number 65
EUT Frequency Band: BLE: 2402-2480MHz
Limits for General Population/Uncontrolled Exposure in the band of: 300 - 1500 MHz,
Power Density Limit: f/1500 mW/cm²

Limits for General Population/Uncontrolled Exposure in the band of: 1500 - 100,000 MHz
Power Density Limit: 1 mW / cm²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$
Where, S = Power Density
P = Power Input to Antenna
G = Antenna Gain
R = distance to the center of radiated antenna

Prediction distance 20 cm

EUT: Telematics Device

Radio	Frequency (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	Separation distance (cm)	Power Density (mW/ cm ²)	MPE Limit (mW/ cm ²)
BLE	2402-2480	2.514	5.3	20	0.0012	1

The above results show that the device complies with the MPE requirement.

ISED RF Exposure Exemption (ISED ID: 23529-PT30U)

Exposure Requirements: RSS-102 Issue 5: Feb 2021

RF Radiation Exposure Limits: RSS-102 Issue 5: Feb 2021

RF Radiation Exposure Guidelines: RSS-102 Issue 5: Feb 2021

EUT Frequency Band: BLE: 2402-2480MHz

Limits for General Population/Uncontrolled Exposure in the band of: 300 - 6,000 MHz

Exemption limit for Routine Evaluation: $1.31 \times 10^{-2} f^{0.6834} \text{ W}$

Radio	Frequency (MHz)	Max E.I.R.P (dBm)	Max E.I.R.P (W)	Evaluation Exemption limit (W)
BLE	2402-2480	7.814	0.006	2.736

The above results show that the E.I.R.P of this device is below the exemption limit for Routine Evaluation.

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