

SAR Exclusion Calculation**Project: G5426v2****Report number: G7454TR1****Date: 4th June 2026****Customer Details**

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Equipment Under Test: MODUS-H**Operating frequency bands: BLE 2400MHz to 2483.5MHz**

SAR Exclusion Calculation - FCC

The calculation is according to the FCC Knowledge Database (KDB) document KDB 447498 D01 General RF Exposure Guidance V06.

Section 4.3.1 General SAR Test Exclusion Bands was applied. Section 4.3.1 a) for 100MHz to 6GHz and test separation distances $\leq 50\text{mm}$ was specifically applied. According to this section the SAR test exclusion thresholds are determined by the following:

$$\text{Threshold} = \left[\frac{P(\text{mW})}{d(\text{mm})} \right] \cdot \sqrt{f(\text{GHz})}$$

Where

P is the maximum power of the channel including tune-up tolerance in mW

d is the minimum test separation distance in mm

f is the RF channel frequency in GHz

The minimum test separation distance was considered to be 5 mm for the Bluetooth Low Energy, in consultation with Section 4.2.2 *Body-worn accessory exposure conditions*.

This evaluation of the threshold is compared to the threshold limit.

- a. Limit for 1-g head or body worn devices: threshold limit ≤ 3
- b. Limit for 10-g extremity worn devices: threshold limit ≤ 7.5

Since the device is body worn the a limit applies.

Bluetooth Low Energy

For this apparatus, the calculated threshold was evaluated using a distance of 5 mm, and the results are tabulated in the table below.

The power level values are taken from the G7453TR1 report

Frequency (GHz)	Power (mW)	EIRP (mW)	Dist (mm)	Calculated Threshold	Threshold Limit	SAR Test required
2.402	0.8054	0.9683	5	0.30	3.0	No
2.440	0.8279	0.9954	5	0.31	3.0	No
2.480	0.7499	0.9016	5	0.28	3.0	No

Table 1 Calculation of threshold BLE

Notes 1: EIRP calculated using an antenna gain of 0.8 dBi.

Note 2: A minimum distance of 5mm is applied per FCC guidelines for distances $< 5\text{mm}$.

Note 3: Calculated threshold results rounded to two decimal places

Conclusion

For the required stated distance, the apparatus met the exclusion requirements for SAR testing (FCC).

Prepared by:



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