





## SAR exemption evaluation

Applicant Bosch Sensortec GmbH

**FCC ID** 2AO4I-18N0

**Product** IoTHub

Model IoTHub

Report No. RXA1705-0136SAR

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## **Conducted Power**

Network Standards	Carrier frequency Conducted Output Power (MHz) (dBm)		Conclusion
Bluetooth (Low Energy)	2402	-0.66	PASS
	2440	-0.54	PASS
	2480	-1.01	PASS

Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR

- > f(GHz) is the RF channel transmit frequency in GHz
- > Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Bluetooth	Distance (mm)	MAX Power (dBm)	Frequency (MHz)	Ratio	Evaluation
Head	5	-0.54	2480	0.28	No
Body-worn	10	-0.54	2480	0.09	No

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