

### 13.5 Bluetooth Conducted Power

Average Power (dBm)(Bluetooth)				
Channel	Frequency (MHz)	GFSK	$\pi/4$ -DQPSK	8DPSK
CH 01	2402	6.93	5.94	6.03
CH 39	2441	7.48	6.46	6.49
CH 78	2480	<b>7.61</b>	6.52	6.61

Average Power (dBm)		
Channel	Frequency (MHz)	BLE
CH 00	2402	0.28
CH 20	2442	<b>0.51</b>
CH 39	2480	0.48

**Note:**

- Per KDB 447498 D01v06, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:  

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

Channel	Frequency (GHz)	Max. tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 78	2.480	8.0	6.31	5	1.98	3.0
CH 20	2.442	1.0	1.26	5	0.39	3.0

- The max. tune-up power was provided by manufacturer, base on the result of note 1, RF exposure evaluation is not required.
- The output power of all data rate were pre-scan, just the worst case of all mode were shown in report.
- When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm according is applied to determine SAR test exclusion.