

## RF EXPOSURE EVALUATION

### EUT Specification

<b>EUT</b>	Bluetooth Beacon
<b>Model Number</b>	M4 Pro
<b>Series Model</b>	M4P-T(SL)AA, M4P-T(SL)AAX, M4P-T(SL)ANX, M4P-T(SL)AN
<b>FCC ID</b>	2A88A-M4P
<b>Antenna gain (Max)</b>	0.69dBi
<b>Operation Frequency</b>	2402-2480MHz
<b>Input Rating</b>	DC 3.0V
<b>Standard</b>	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01 General RF Exposure Guidance v06
<b>Modulation</b>	BLE

### Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

#### Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### Limits

The 1-g and 10-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 and  $\leq 7.5$  for 10-g extremity SAR, where  $\cdot f(\text{GHz})$  is the RF channel transmit frequency in GHz  $\cdot$  Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>  $\cdot$  The result is rounded to one decimal place for comparison  $\cdot$  The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

### Calculated Result and Limit

Operation Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	7.59	7±1	8	6.31	1.96	3.0
Middle (2440MHz)	7.45	7±1	8	6.31	1.97	
Highest (2480MHz)	7.42	7±1	8	6.31	1.99	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

The Maximum power is less than the limit, complies with the exemption requirements, SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.:  
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