

RF EXPOSURE EVALUATION

EUT Specification

EUT	Bluetooth Beacon				
Model Number	L03, L03BH,L03BA,L03H, L03A				
FCC ID	2AO94- L03				
Antenna gain (Max)	-0.28dBi				
Operation Frequency	2402-2480MHz				
Input Rating	3.0Vdc or 3.6Vdc, 20~30uA				
Standard	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01				
	General RF Exposure Guidance v06				
Modulation	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: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where • f(GHz) is the RF channel transmit frequency in GHz • Power and distance are rounded to the nearest mW and mm before calculation17 • The result is rounded to one decimal place for comparison 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

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exempted.



Calculated Result and Limit

Operation Mode: BLE								
Channel	Maximum	Tune up tolerance (dBm)	Maximum					
	Peak		tune-up Power					
	Conducted		(dBm)	(mW)	Calculated	Exclusion		
	Output				value	threshold		
	Power							
	(dBm)							
Lowest	2.01	2±1	3	2.00	0.62			
(2402MHz)					0.02			
Middle	1.96	1±1	2	1.58	0.49	3.0		
(2440MHz)						3.0		
Highest	1.07	1±1	2	1.58	0.50			
(2480MHz)	1.87	±		1.00	0.50			
Conclusion: the calculated value ≤3.0, SAR is exempted.								

The Maxinum power is less than the limit, complies with the exemption requirements, SAR is

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

91334-24-72-24-PP001.