



RF Exposure Evaluation

FCC ID: 2A6VF-AF01

1. Client Information

Applicant	:	Averia Electronics Inc.
Address	:	142W 57th Street, Floor 11, New York, NY 10019
Manufacturer	:	Averia Electronics Inc.
Address	:	142W 57th Street, Floor 11, New York, NY 10019

2. General Description of EUT

EUT Name	:	Averia Flashlight	
Model(s) No.	:	AF01, 001	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is Strap color, other LEDs.	
Sample ID	:	HC-C-202311-0064-01-01-1#& HC-C-202311-0064-01-01-2#	
Product Description	:	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
	:	Number of Channel:	40 channels
	:	Antenna Gain:	-2.96dBi PCB Antenna
Power Rating	:	USB Input: DC 5.0V, 500mA DC 3.7V by 550mAh Rechargeable Li-ion battery	
Software Version	:	0.1.x	
Hardware Version	:	AEC_FL_v00	
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.			

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}] \leq 7.5.0$ for 10-g SAR

2. Calculation:

Test separation: 5mm						
Bluetooth LE Mode(1Mbps)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	0.951	0±1	1	1.259	0.390	3.0
2.440	0.707	0±1	1	1.259	0.393	3.0
2.480	0.627	0±1	1	1.259	0.397	3.0

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

-----END OF THE REPORT-----

