

# RF Exposure Evaluation

## FCC ID: 2AMMQ-SCC001

### 1. Client Information

**Applicant** : Swift IoT Tech (Shenzhen) Co., LTD.  
**Address** : Suite 617, Building A, Dachong Business Center, 9680 Shennan Boulevard, Nanshan District, Shenzhen, Guangdong, China  
**Manufacturer** : Leafware LLC  
**Address** : 24788 SE 13TH PL, Sammamish, WA 98075, United States

### 2. General Description of EUT

<b>EUT Name</b>	:	Smart Car Charger
<b>Models No.</b>	:	SC001, 001
<b>Model Difference</b>	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.
<b>Product Description</b>	Operation Frequency:	Bluetooth V4.0(BLE): 2402~2480 MHz
	RF Output Power:	BLE: -0.98dBm
	Antenna Gain:	-3dBi Ceramic Antenna
<b>Power Supply</b>	:	DC Voltage supplied by battery.
<b>Power Rating</b>	:	DC 12V/DC 24V by battery.
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

**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  $\leq 5$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

**2. Calculation:**

Test separation: 5mm						
BLE Mode (GFSK)						
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	-0.980	-1±0.5	-0.5	0.891	0.276	3.0
2.442	-1.350	-1±0.5	-0.5	0.891	0.279	3.0
2.480	-1.366	-1±0.5	-0.5	0.891	0.281	3.0

**So standalone SAR measurements are not required.**

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