

Report No.: TB-MPE163916

Page: 1 of 4

Maximum Permissible Exposure Evaluation

FCC ID: 2ASB5-CCB007AA

1. Client Information

Applicant		CAMELLIA LABS. INC
Addres	- 7	155,BOVET RD,SUITE 302,SAN MATEO,CA USA-94402
Manufacturer		Shenzhen Sun Cupid Industries Ltd. Longgang Branch
Address		No. 7, Gao Ke Blvd., Bao Long Sub-district, Long Gang District, Shen Zhen, Guang Dong, China.

TB-RF-075-1. 0



Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE163916

Page: 2 of 4

2. General Description of EUT

EUT Name	:	The Chai Brewer			
Models No.	÷	CCB007AA			
Model Difference	:	N/A			
Product Description		Operation Frequency:	Bluetooth (BLE): 2402~2480 MHz		
		RF Output Power:	BLE: -0.285 dBm(Max)		
		Antenna Gain:	2.81 dBi PCB Antenna		
Power Rating		AC 120V/60 Hz			
Software Version	4	N/A			
Hardware Version	:	N/A			
Connecting I/O Port(S)	P:	Please refer to the User's Manual			

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

Tel: +86 75526509301



Report No.: TB-MPE163916

Page: 3 of 4

MPE Calculations for BLE

1. Antenna Gain:

PCB Antenna: 2.81dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=(PG)/4\pi R^2$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

Frequency (GHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
2.402	-0.285	0±1	1 1	2.81	20	0.00047835
2.442	-1.072	-1±1	0	2.81	20	0.00037996
2.480	-2.205	-2±1	-1	2.81	20	0.00030182



Report No.: TB-MPE163916

Page: 4 of 4

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For BLE: 2402~2480 MHz MPE limit S: 1mW/ cm²

The MPE is calculated as 0.00047835mW / cm² < limit 1mW / cm². So, RF exposure limit

warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

----END OF REPORT----