Test Report Number:	**LCZE24120045**	***Total Page(s):3***
Applicant Name:	Infinite Candle Limited Trading as Sonua	
Applicant Address:	32 Campion Avenue, Abbeyfort, Kinsale, Co.Cork, Ireland, P17 R266.	
Test item:	Electronic flameless candle light	
Model / Type Reference:	CL-P198	
FCC ID:	2BNGT-CAN-I-V1	
Date of Issue:	2025-01-10	
Testing Laboratory:	LCTECH Guangdong Testing Services Co., Ltd. 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China	
Test Specification:	KDB 447498 D01 General RF Exposure Guidance v06	
Test Result:	Passed	

Compiled by:			**Reviewed by:**		
2025-01-10	Rex He	Rex He	2025-01-10	Tension Li	Tension Li
Date	*Name*	*Signature*	*Date*	*Name*	*Signature*

Remark:

N/A

RF Exposure Evaluation

Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density(mW /cm^2)	Averaging time (minutes)
(A)Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f^2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B)Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f^2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequencyinMHz

Friis transmission formula:**Pd = (Pout*G)/(4*pi*r^2)**

Where

Pd =power density in mW/cm^2, **Pout**= output power to antenna in mW;

G = gain of antenna in linear scale,**Pi**=3.1416;

R = distance between observationpoint andcenter of theradiatorincm

Pdid the limit of MPE,1mW/cm^2.If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Test Procedure

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

Test Result of RF Exposure Evaluation

BLE mode

Channel	Output power to antenna(dBm)	Output power to antenna(mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
BLE_2M 2402MHz	0.981	1.25	0.00062	1.0	PASS

Remark: antenna gain=2.5dBi

The max power density is less than MPE exempt limit, so it is compliance.