Test Report Number:	LCZE2508001	Total Pag	1 <b>e(s):</b> 2					
Applicant Name:	ARTCILUX LIGHTING (HK) CO., LIMITED							
Applicant Address:	RM 705, 7/F, FA YUAN COMMERCIAL BUILDING, NOS. 75-77, FA YUEN STREET, KOWLOON, HK.							
Product Name:	Wireless hand sweep induction remote control switch							
Model / Type Reference:	2S-S1312SE.2IR							
FCC ID:	2BRRC-S1312SE-2IR							
Date of Issue:	2025-08-11							
Testing Laboratory: LCTECH Guangdong Testing Services Co., Ltd.								
		and Enterprise Deve an, Guangdong, China	-	enter, Guangyuan	Road,			
Test Specification:	KDB 447498 D04 Interim General RF Exposure Guidance v01							
Test Result:	Passed							
Compiled by:		Reviewed by:						
2025-08-11 Rex He	Rex He	2025-08-11 Te	ension Li	Tension (i				
Date Name	Signature	Date	Name	Signature				
Remark:								
N/A								

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## RF Exposure evaluation

According to 447498 D04 Interim General RF Exposure Guidance v01

$$P_{\rm th} \, ({\rm mW}) = ERP_{\rm 20 \, cm} \, ({\rm mW}) = \begin{cases} 2040 f & 0.3 \, {\rm GHz} \le f < 1.5 \, {\rm GHz} \\ \\ 3060 & 1.5 \, {\rm GHz} \le f \le 6 \, {\rm GHz} \end{cases} \tag{B.1}$$

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20 \text{ cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and  $ERP_{20cm}$  is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

	Distance (mm)										
Frequency (MHz)		5	10	15	20	25	30	35	40	45	50
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

eirp = pt x gt = (EXd) 2/30

where: pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- 10 ((dBuV/m)/20) /10 6

d = measurement distance in meters (m)---3m Sopt = (EXd) 2/30 x gt

Frequency(MHz)	Field Strength	eirp(mW)	limit (mW)	min. distance
	(dBuv/m)			(cm)
2420	77.19	0.016	3	0.50

Then SAR evaluation is not required