

Shenzhen Toby Technology Co., Ltd.



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RF Exposure Evaluation FCC ID: 2BC29-FLIK02

1. Client Information

Applicant	Flicked LLC
Address	8 The Green, Suite B, Dover, DE, 19901
Manufacturer	Flicked LLC
Address	8 The Green, Suite B, Dover, DE, 19901

2. General Description of EUT

EUT Name	:	Flik					
HVIN/Model(s) No.	*	Flik 02					
Model Different	Y	- CORP TO THE PROPERTY OF THE					
Product Description	1	Operation Frequency:	433.846 MHz				
		Antenna Gain:	PCB Antenna(1 dBi)				
Power Rating TX		DC CR2032 3V					
Power Rating RX		Input: DC 5V DC 1.5V AA Rechargeable Li-ion battery					
Software Version		N/A					
Hardware Version		: N/A					

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

Flipper Zero: Portable handheld electronic device featuring virtual pet, designed for education, development and prototyping of electronics and software.

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The RF Exposure Evaluation for FCC:

SAR Test Exclusion Calculations

FCC: According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula (B.2).

$$P_{\rm th} \, ({\rm mW}) = \begin{cases} ERP_{\rm 20 \, cm} (d/20 \, {\rm cm})^x & d \leq 20 \, {\rm cm} \\ \\ ERP_{\rm 20 \, cm} & 20 \, {\rm cm} < d \leq 40 \, {\rm cm} \end{cases}$$

where

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

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





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Calculation:

Frequency (MHz)	Max. Output Power (dBuV/m)	Max. Output Power (dBm)	Tolerance ± (dB)	Output power (Max. Turn-up Procedure) (mW)	Limit P _{th} (mW)	
433.846MHz	67.93	-22.63	-22±1	0.005	22	

Note: For conducted measurements below 1000 MHz, the field strength shall be computed as specified in item d), and then an additional 4.7 dB shall be added as an upper bound on the field strength that would be observed on a test range with a ground plane for frequencies between 30 MHz and 1000 MHz, or an additional 6 dB shall be added for frequencies below 30 MHz.

 $E = EIRP - 20 \log d + 104.8$

where

E is the electric field strength in $dB\mu V/m$

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

So: EIRP=E+20log3-104.8-(4.7 or 6)

Note: At separation distance of ≤5 mm

Conclusion:

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 REPORT----

