FCC RF Exposure

Applicant	:	Shanghai Tanpin Technology Co.,Ltd
Address	:	Building C, No.888 Huanhu West 2nd Road, Lingang New Area, Pudong New Area, Shanghai, China
Product Name	:	Bluetooth module
Brand Mark	:	TOPYLINK
Model	:	TPL3131
Series model	:	TPL3131EVB
FCC ID	:	2BG7T-TPL3131
Report Number	:	BLA-EMC-202603-A0802
Date of Receipt	:	Mar. 04, 2026
Date of Test	:	Mar. 04, 2026 to Mar. 13, 2026
Test Standard	:	47 CFR Part 15, Part1.1307 47 CFR Part 15, Part2.1091 KDB447498D04 General RF Exposure Guidance v01
Test Result	:	Pass

Compiled by: Mark Chen **Review by:** Xavier **Approved by:** Steve Zheng

Issued Date: Apr. 15, 2026

BlueAsia Technical Services (Shenzhen) Co.,Ltd. BLA

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Revise Record

Version No.	Date	Description
01	Apr. 15, 2026	Original

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1 General information

1.1 General information

Applicant	Shanghai Tanpin Technology Co.,Ltd
Address	Building C, No.888 Huanhu West 2nd Road, Lingang New Area, Pudong New Area, Shanghai, China
Manufacturer	Shanghai Tanpin Technology Co.,Ltd
Address	Building C, No.888 Huanhu West 2nd Road, Lingang New Area, Pudong New Area, Shanghai, China
Factory	Nanjing Xuancai smart Manufacturing Co., Ltd
Address	Room 108, A1, Qingyun BuildingNo.266 Puyun Road, Yan Chuangyuan, Jiangbei Xinqu, Nanjing City, Jiangsu Province, China

1.2 General description of EUT

Product name	Bluetooth module
Model no.	TPL3131
Series model	TPL3131EVB
Differences of Series model	Since TPL3131EVB is based on TPL3131 with an additional connection socket added, the rest of the components are the same.
Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Rate data	1Mbps
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	PCB antenna
Antenna Gain	3.0dBi(Provided by customer)
Power supply	DC 3.3V
Hardware Version	N/A
Software Version	N/A
Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.	

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2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

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

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 $ERP_{20\text{cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	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

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

2.3 Result

EIRP = pt x gt = (E X d)2/30

Where:

pt = transmitter output power in watts,

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

E = electric field strength in V/m,

d = measurement distance in meters (m)

Spot = (EXd)2/30 x gt
Separation distance= 20cm

For BLE(Worst case) :
Max Output power = **-4.775**dBm @ 2480MHz
EIRP = -4.775dBm+3dBi= -1.775dBm,
So, ERP = -1.775-2.15= -3.925dBm=0.405mW< 3060 mW
Comply with RF exposure exemption limit.

----END OF REPORT----

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