

RF EXPOSURE EVALUATION

Product Name	:	Anti-Lost Tracker
Model Name	:	ALT001-2
FCC ID	:	2AOUV-ALT001-2
Bluetooth Version	:	Bluetooth LE
Operating frequency	:	2402-2480MHz
Numbers of Channel	:	40
Antenna Type	:	Internal Antenna
Antenna Gain	:	2 dBi
Type of Modulation	:	GFSK
Power supply	:	DC 3V Battery
Device category	:	Portable (<20cm separation)

Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v05, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50\text{mm}$ are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \times \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g SAR extremity SAR, where}$$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

The test exclusions are applicable only when the minimum test separation distance is $\leq 50\text{mm}$ and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is $< 5\text{mm}$, a distance of 5mm is applied to determine SAR test exclusion.

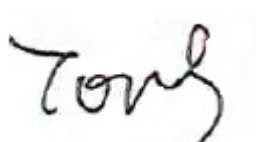
Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

One antenna is available for the EUT (BT product). The minimum separation distance is 5mm.

Channel Frequency (MHz)	Measurement Peak Output Power(dBm)
	GFSK
2402	-4.40
2440	1.69
2480	-3.06

Channel Frequency (MHz)	Tune up tolerance (dBm)	Max tune up conducted power(dBm)	Output Peak power (mW)	Calculation Result	Limits
2402	-4±1	-3	0.50	0.15535	3
2440	2±1	3	2.00	0.62347	3
2480	-3±1	-2	0.63	0.19873	3

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.



Client's signature:

Client's name / title: Tony Huang / Manager

Date: 2018-02-27

Telephone: +86-769-39022980

Fax No.: +86-769-21686200

Contact information / address

RM 905/907/909, 9th Floor, FengShuo Square, Yuanmei Road, Nancheng District, Dongguan City, Guangdong, PRC (523000)