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RF Exposure Evaluation

FCC ID: XUJLAUNCHITPMS

According to KDB 447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a).

EUT Specification

Product Name:	Modular activation programming tool			
Trade Mark:	LAUNCH			
Model/Type Reference:	LAUNCH i-TPMS			
Listed Model(s):				
Model Differences:	1			
Frequency Band (Operating)	BT: 2402MHz ~ 2480MHz RF ID 125KHz			
Device Category	☑Portable (<5mm separation) ☐Mobile (>20cm separation) ☐Fixed (>20cm separation) ☐Others			
Antenna Diversity	□Single antenna □Multiple antennas □TX diversity □RX diversity □TX/RX diversity			
Antenna Gain (Max)	BT: -1.36dBi			

Limit

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

Where:

- -f_(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 values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

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Measurement Result

Mode	Frequency (MHz)	Maximum Power (dBm)	Tune Up Tolerance (dB)	Max. Tune Up Power (dBm)	Result	Limit	Verdict
GFSK (BLE)	2480	3.12	±1	4.0	0.79	3.0	Pass
8-DPSK (EDR)	2480	3.84	±1	5.0	1.00	3.0	Pass

eirp = pt x gt = $(E \times d)^2/30$

where:

pt = transmitter output power in watts,

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

E = electric field strength in V/m, --- 10^{((dBuV/m)/20)}/10⁶

d = measurement distance in meters (m), --- 3m

So pt = $(E \times d)^2/(30 \times gt)$

125kHz Field strength = 73.23 dBuV/m @3m Ant gain 0dBi, Ant numeric gain = 1

So pt = ${[10^{(73.23/20)}/10^6 \times 3]^2/(30 \times 1)} \times 1000 \text{ mW} = 0.0063 \text{ mW} = -22.0 \text{ dBm}$

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

Note:

- 1. Calculate in the worst-case mode.
- 2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
- 3. For a more detailed features description, please refer to the RF Test Report.

CTC Laboratories, Inc.

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