



## RF Exposure Evaluation

### FCC ID: XUJCRT511SV2

According to KDB 447498 D04 Interim General RF Exposure Guidance V01 . and part 2.1093.

#### EUT Specification

Product Name:	SMART TPMS DIAGNOSTIC SYSTEM
Trade Mark:	LAUNCH
Model/Type Reference:	Creader TPMS 511S V2
Listed Model(s):	Creader TPMS 5011 V2
Model Differences:	All these models are identical in the same PCB, layout, electrical circuit and enclosure. The difference is the color of the plastic sleeve.
Frequency Band (Operating)	RF ID: 125kHz
Device Category	<input checked="" type="checkbox"/> Portable (<5mm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Fixed (>20cm separation) <input type="checkbox"/> Others ____
Antenna Diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> TX diversity <input type="checkbox"/> RX diversity <input type="checkbox"/> TX/RX diversity
Antenna Gain (Max)	0dBi

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China  
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No: CTC-TR-065\_A1

For anti-fake verification, please visit the official website of China Inspection And Testing Society : [yz.cnca.cn](http://yz.cnca.cn)

**Measurement Result**

$$e_{\text{irp}} = p_t \times g_t = (E \times d)^2 / 30$$

where:

$p_t$  = transmitter output power in watts,

$g_t$  = numeric gain of the transmitting antenna (unitless),

$E$  = electric field strength in V/m, ---  $10^{((\text{dBuV/m})/20)/10^6}$

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

$$\text{So } p_t = (E \times d)^2 / (30 \times g_t)$$

125kHz Field strength = 75.03 dBuV/m @3m

Ant gain 0dBi, Ant numeric gain = 1

$$\text{So } p_t = \{[10^{(75.03/20)/10^6} \times 3]^2 / (30 \times 1)\} \times 1000 \text{ mW} = 0.01 \text{ mW}$$

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.

\*\*\*\*\*THE END\*\*\*\*\*