



Registration  
No.788871

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## MPE REPORT

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Report No.: SRTC2018-9004(F)-18082703(I)

Product Name: Passive Car Key

Product Model: HUF2725

Applicant: Huf Hülsbeck & Fürst GmbH & Co. KG

Manufacturer: Huf Hülsbeck & Fürst GmbH & Co. KG

Specification: FCC Part §2.1093, §1.1307(b)

FCC ID: YGOHUF2725

The State Radio\_monitoring\_center Testing Center (SRTC)  
15th Building, No.30, Shixing Street, Shijingshan District, Beijing, P.R.China  
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## **1. GENERAL INFORMATION**

### **1.1 Notes of the test report**

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The test results relate only to individual items of the samples which have been tested.

### **1.2 Information about the testing laboratory**

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China
City:	Beijing
Country or Region:	P.R.China
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### **1.3 Applicant's details**

Company:	Huf Hüsbeck & Fürst GmbH & Co. KG
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Contacted person:	Thomas Herzog
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Email:	Thomas.Herzog@huf-group.com

### **1.4 Manufacturer's details**

Company:	Huf Hüsbeck & Fürst GmbH & Co. KG
Address:	Steeger Straße 17 42551 Velbert
City:	Velbert
Country or Region:	Germany
Contacted person:	Thomas Herzog
Tel:	+49 (0)2051 272-877
Fax:	+49 (0)2051 272-700-877
Email:	Thomas.Herzog@huf-group.com

## 1.5 Test environment

Date of Receipt of test sample at SRTC:	2018-08-27
Testing Start Date:	2018-08-28
Testing End Date:	2018-08-31

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	22-25	30-45

Normal Supply Voltage (V d.c.):	3.30
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## **2 DESCRIPTION OF THE DEVICE UNDER TEST**

### **2.1 Final Equipment Build Status**




Equipment Number	1
Operating Frequency	433.92MHz (TX) 125KHz (Receiver)
Antenna Type	PCB Printed loop Antenna
Antenna Gain	-15dBi
Modulation Type	FSK (TX) ASK (Receiver)
Power Supply	Battery
Software Revision	1.08
Hardware Revision	004
SN	Sample1: 1#

### **3 REFERENCE SPECIFICATION**

Specification	Version	Title
2.1093	June 23, 2015	Radiofrequency radiation exposure evaluation: portable devices.
1.1307(b)	Apr. 22, 1986	Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.
KDB447498	D01	General RF Exposure Guidance

## 4 RESULT SUMMARY

No.	Test case	FCC reference
1	MPE	FCC Part §2.1093, FCC Part §1.1307(b) KDB447498 D01

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: Mr. Chang Taosha 	Issued date:  20180907

## 5 Test Results

### 5.1 Test Result

Test conditions	Modulation type	State	Value	
		Test environment	Normal operation	
		Centre frequency	433.92MHz	
		Power Mode	P <sub>conducted</sub> (dBm)	P <sub>erp</sub> (dBm)
NTNV	FSK	Measured Effective Radiated Power	2.56	-12.44
LTLV	FSK		2.54	-12.46
LTHV	FSK		2.55	-12.45
HTLV	FSK		2.55	-12.45
HTHV	FSK		2.56	-12.44

Note:  $P_{erp} = P_{conducted} + \text{antenna gain}$

$P_{erp}$ : measured effective radiated power.

$P_{conducted}$ : maximum measured conducted power.



## 5.2 SAR Test Exclusion Thresholds

According to the KDB447498 4.3.1(a)

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g 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  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

Summary of Transmitters

Mode/Band	Freq (MHz)	Max. power of channel, including tune-up tolerance, (dBm)	Max. power of channel, including tune-up tolerance, (mW)	Min. test separation distance, (mm)	The calculation results (1g)	SAR test exclusion Threshold (1g)	SAR Required
FSK	433.92	3	2	5	0.27	$\leq 3.0$	No

---End of Test Report---