FCC ID: 2BL3Q-HN101

### **RF Exposure Evaluation**

- 1. The corresponding SAR Exclusion Threshold condition, listed below:
- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] .[Vf(GHz)]≤3.0 for 1-g SAR and≤7.5 for 10-g extremity SAR,16 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 test exclusions are applicable only when the minimum test separation distance is≤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 is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
- a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm):( f(MHz)/1 50)] mW, at 100MHz to 1 500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)-10] mW at > 1500 MHz and≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
- a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1+log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
- b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by /2 for test separation distances≤50 mm.
- c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

# 2. CL ASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as Portable Device.

#### **EUT Specification**

FCC ID	2BL3Q-HN101	1/4.	14.	1/4.
PRODUCT:	Car keys			
MODEL NO.:	HN101	10	10	
ST ANDARDS:	FCC Part 15.231 KDB 447498 D01 V06 ANSI C95.1- 1999 FCC §1.1310	Maxian	Maxlan	Max
Antenna type:	PCB antenna			
Antenna gain (Max)	2.1dBi			
Evaluation applied	<ul><li>☐ MPE Evaluation</li><li>☒ SAR Evaluation</li></ul>	130	13/0	



# MAXLAB Testing Co.,Ltd.

# FCC ID: 2BL3Q-HN101

# 3. SAR TEST EXCLUSION THRESHOLDS

#### The measured conducted PK Power

Mode	Frequency(MHz)	Field strength(dBuV/m@3)	EIRP (dBm)	
TX	433.92	65.08	-30.08	

Note:

EIRP=E<sub>Meas</sub>+20log(d<sub>Meas</sub>)-104.7

EIRP is the equivalent isotropically radiated power, in dBm

 $E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in dBuV/m  $\,$ 

 $d_{\text{Meas}}$  is the measurement distance, in  $\boldsymbol{m}$ 

EIRP=E+20log(d)-104.7

The tuned conducted PK Power (declared by client)

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	Mode	Frequency(MHz)	Target Power (dBm)	Tolerance ±(dBm)
Ī	TX	433.92	-30	1

	Minimum	RF Output power		Result	Limit	
Frequency (MHz)	Separation distance (mm)	(dBm)	(mW)	No	for 1-g SAR	Verdict
433.92	5	-29	0.00126	0.000269	3.0	Exempt from
_10	-70	-/0	_\( \)	.10		SAR

### Conclusion

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.