

#### FCC ID: 2BL3Q-VW101

#### **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.

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Car keys			
VW101		10	
FCC Part 15.231 KDB 447498 D01 V06 ANSI C95.1- 1999 FCC §1.1310	MaxIap	MaxIap	Max
PCB Antenna			
2.1 dBi			
<ul> <li>☐ MPE Evaluation</li> <li>⊠ SAR Evaluation</li> </ul>	130	1310	1
	Car keys VW101 FCC Part 15.231 KDB 447498 D01 V06 ANSI C95.1- 1999 FCC §1.1310 PCB Antenna 2.1 dBi MPE Evaluation	Car keys         VW101         FCC Part 15.231         KDB 447498 D01 V06         ANSI C95.1- 1999         FCC §1.1310         PCB Antenna         2.1 dBi         □ MPE Evaluation	Car keys VW101 FCC Part 15.231 KDB 447498 D01 V06 ANSI C95.1- 1999 FCC §1.1310 PCB Antenna 2.1 dBi MPE Evaluation



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## 3. SAR TEST EXCLUSION THRESHOLDS

## The measured conducted PK Power

Mode	Frequency(MHz)	Field strength(dBuV/m@3)	EIRP (dBm)
ТХ	315	71.05	-24.11

#### Note:

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

EIRP is the equivalent isotropically radiated power, in dBm

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

 $d_{\mbox{\scriptsize Meas}}$  is the measurement distance, in m

EIRP=E+20log(d)-104.7

# The tuned conducted PK Power (declared by client)

Mode	Frequency(MHz)	Target Power (dBm)	Tolerance ±(dBm)	
ТХ	315	-24	1	

	Minimum	RF Output power		Result	Limit	
Frequency (MHz)	Separation distance (mm)	(dBm)	(mW)	Na	for 1-g SAR	Verdict
315	5	-23	0.005	0.000563	3.0	Exempt from
	-10	-0		.\0		SAR

## Conclusion

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