FCC ID: 2BPQH-RDRMRS

According to KDB447498 D01 General RF Exposure Guidance V06
Because the frequency is below 100M, calculate the exemption value for the SAR corresponding frequency first.

A.The 1-g SAR 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)]·[√f(GHZ)] ≤ 3.0 for 1-g SAR and ≤ 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

When the minimum test separation distance is < 50 mm, a distance of 50 mm is applied to determine SAR test exclusion.

F=100MHz,d=50mm

[P(mW)/50mm]*√0.1GHz≤3.0

Derived：
P(mW)≤(3*50)/√0.1=474mW

B. 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 (also illustrated in Appendix B):
1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)·(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz

Pa(mW)+(d-50mm)/150=474+(50-50)/(100/150)=474mW

C. For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding
test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f(MHz))]
2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by ½

test separation distances > 50 mm and < 200 mm as follows:
Pb(mW)*[1+log(100/f(MHz))]= 474mW*[1+log(100/f(MHz))]

test separation distances ≤ 50 mm as follows:
Pb(mW)*[1+log(100/f(MHz))]*0.5=474mW*[1+log(100/f(MHz))]*0.5=237*[1+log(100/f(MHz))]

125kHz
Antenna: Induction coil
D<50mm

Frequency	Max Output power (dBuV/m)	Max Output power (mW)
125kHz	66.85	0.00145

SAR Exemption Power=237*[1+log(100/f(MHz))]= 237*[1+log(100/0.125)]=925mW

0.00145mW<925mW

13.56MHz
Antenna: Induction coil
D<50mm

Frequency	Max Output power (dBuV/m)	Max Output power (mW)
13.56MHz	62.16	0.00049

SAR Exemption Power=237*[1+log(100/f(MHz))]= 237*[1+log(100/13.56)]=443mW

0.00049mW<443mW

125kHz and 13.56MHz cannot be emitted simultaneously.

Conclusion:
The maximum results have not exceeded the limit, no SAR is required .

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