

FCC RF Exposure

EUT Description: **Helmet Bluetooth headset**

Model No.: **S2**

FCC ID: **2A8HB-S2**

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance V06 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:

$$\left[\frac{(\text{max power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}$$

Where:

$\text{Result} = P/D \cdot \sqrt{F}$

F= the RF channel transmit frequency in GHz

P=Maximum turn-up power in mw

D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

	Output power (dBm)	Tune Up Power (dBm)	Max Tune Up power dBm/mW	Min test separation distance mm	Result	Limit	SAR Test Exclusion
BR	3.3	2.5±1(3.5)	2.239	5	0.694	3.0	Pass
Note: PK Output power= conducted power. Conducted power see the test report HK2208223732-E , antenna gain=2.54dBi.							

Per KDB 447498 D01 when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.694 which is ≤ 3 , SAR testing is not required.

Note: Exclusion Thresholds Results= $\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [\sqrt{f(\text{GHz})}]$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Distance=5mm