



RF EXPOSURE EVALUATION

FCC ID: 2BTHB-GM80

Product Name	:	Smart Eyewear
Model Name	:	GM-80
Additional Models	:	GM-81,GM-82,GM-86,GM-87,GM-88
Models Difference	:	The frames and lenses vary in shape and color.
Specification	:	BT 6.0 BDR+EDR
Operation Frequency	:	2402-2480MHz
Number of Channel	:	79 channels for BDR+EDR
Type of Modulation	:	GFSK, $\pi/4$ -DQPSK,8DPSK For DSS
Antenna installation	:	Ceramic antenna
Antenna Gain	:	1.2 dBi
Rated Power Supply	:	Input: DC 5V 0.06A Battery: Li-ion Battery :400826 Rated Voltage: 3.7V Rated Capacity:80mAh
Hardware Version	:	V1
Software Version	:	V1



Standard Requirement

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance v06, section 4. 3. 1.

The 1-g and 10-g SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50\text{mm}$ are determined by:

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

- $f(\text{GHz})$ 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 $\leq 50\text{mm}$ and for transmission frequencies between 100MHz and 6GHz. When the minimum test separation distance is $< 5\text{mm}$, a distance of 5mm is applied to determine SAR test exclusion. Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.

Test Result

	Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Distance(mm)	Calculation results	Limit	Operating Mode
Left	2402	2.40	2.40 ± 1	2.187762	5	0.678136	3	3DH5
Right	2480	1.69	1.69 ± 1	1.857804	5	0.585135	3	3DH5



Simultaneous transmit Result

Left Maximum power ratio	Left Maximum power ratio	Simultaneous Maximum Power ratio	Maximum Power Limits ratio	Test result
0.226045	0.195045	0.42109	1	PASS

Both of the Left and Right can transmit simultaneously, the formula of calculated the exposure is: (Calculation results1/Limit1)+(Calculation results2/Limit2)+.....etc.<1
Therefore, the calculation of this situation is $(0.678136/3) + (0.585135/3) = 0.42109$.

According to KDB 447498, The device only support BT function, Simultaneous transmit Result is meet the requirement and no simultaneous SAR measurement is required.

Signature

A handwritten signature in black ink that reads "Simon Pu".

Simon Pu

Manager

Date: 2026-06-25