



RF Exposure Evaluation

FCC ID: 2BM94-3S

According to KDB 447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a).

EUT Specification

Product Name:	Smart glasses
Trade Mark:	Fast Metal
Model/Type Reference:	FMi32BKSMS1
Listed Model(s):	FMi32TTFBS1, FMi33BKSM02, iGlass-3S, FMi3
Model Differences:	Only the model names are different
Frequency Band (Operating)	BT: 2402MHz ~ 2480MHz BLE: 2402MHz ~ 2480MHz
Device Category	<input checked="" type="checkbox"/> Portable (<5mm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Fixed (>20cm separation) <input type="checkbox"/> Others ____
Antenna Diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Antenna Gain (Max)	BT: 0.10dBi

Limit

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:

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

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 values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.

**Measurement Result**

Mode	Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up Power (dBm)	Result	Limit	Verdict
GFSK	2480	3.12	4	0.791	3.0	Pass
π /4-DQPSK	2480	3.13	4	0.791	3.0	Pass
8-DPSK	2480	3.47	4.5	0.888	3.0	Pass
BLE 1M	2480	3.11	4	0.791	3.0	Pass
BLE 2M	2480	3.00	4	0.791	3.0	Pass

Note:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.

*****THE END*****