



RF Exposure Evaluation

FCC ID: 2AB6X52691

1 Client Information

Applicant	:	ELECTRONICA INTEGRAL DE SONIDO S.A.
Address	:	Pol. Malpica, C/F-Oeste, Grupo Quejido, 87-88, Zaragoza, Spain
Manufacturer	:	Shenzhen AOK Science And Technology Co., Ltd
Address	:	No.3 Bldg., Guihutang Street, Guhua Village, Guanlan Town, Bao'an, Shenzhen, China

2 General Description of EUT (Equipment Under Test)

Product Name	:	IN-WALL BLUETOOTH AUDIO RECEIVER
Models No.	:	52691
Trademark	:	EISSOUND
Product Description	Operation Frequency:	2402MHz~2480MHz
	Transfer Rate:	1/2/3 Mbits/s
	Number of Channel:	79 Channels
	Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8-DPSK
	Modulation Technology:	FHSS
	Antenna Type:	Integral PCB Antenna
	Antenna Gain:	0 dBi
Power Supply	:	DC 15V from external power supply

Note:

More test information about the EUT please refer to the RF Test Report.



MPE Calculations

FCC Requirement

According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies V05R02

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 50 mm are determined by:

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0$ for 10-g SAR

Calculation:

The maximum power is 3.97 dBm (2.495mW) @2.402GHz
Separation Distance is 5mm

For 1-g SAR Result: $(2.495\text{mW} / 5\text{mm}) \cdot [\sqrt{2.402(\text{GHz})}] = 0.773 < 3.0$ for 1-g SAR

So standalone SAR measurements are not required.