

RF EXPOSURE REPORT



Applicant: Sonova Consumer Hearing GmbH
Im Heidkampe 9, 30659 Hannover, Germany
Manufacturer: Sonova Consumer Hearing GmbH
Im Heidkampe 9, 30659 Hannover, Germany
Product Name: MOMENTUM 5
Brand Name: SENNHEISER
Model No.: M5AEBT
FCC ID 2A3ULM5AEBT
Date of EUT Received: Dec. 11, 2025
Issue Date: Mar. 13, 2026

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §1.1307 & KDB 447498 D04 v01.

The results of this report relate to the specific sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2512001005ES	00	Original	Mar. 13, 2026	Kimmy Chiou	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Test Item Description	Wireless Headphones
Product Name	MOMENTUM 5
Brand Name	SENNHEISER
Model No.	M5AEBT
Status of EUT	Engineering sample
Hardware Version	0x01
Firmware Version	6.6.1
Power Ratings	5Vdc, 800 mA (from Type-C USB) 3.7Vdc, 700mAh (from battery)
Power Supply (Nominal & Testing)	5Vdc, 800 mA (from Type-C USB) 3.7Vdc, 700mAh (from battery)
Cable supplied	1.2m USB C-C shielded cable without core
Test Software (Name/Version)	BlueTest3

Note:

- Variant information of main & alternate battery sources is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
- The two battery sources are identified as the 1st battery and the 2nd battery. In response to the above differences, Unwanted Emissions was performed, and the data is presented as 1st and 2nd.

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1.2 RF Specification

Technology	Bluetooth
Operating Frequency	BDR & EDR: 2402 - 2480MHz BLE 1M/2M: 2402 - 2480MHz QHS: 2402 - 2480MHz (for Frequency Band: 2400-2483.5MHz)
No. of channels	BDR & EDR: 79 BLE 1M/2M: 40 QHS: 40
Channel Spacing	BDR & EDR: 1MHz BLE 1M/2M: 2MHz QHS: 2MHz
Channel Bandwidth	BDR & EDR: 79MHz, BLE 1M/2M: 80MHz QHS: 80MHz
Data Transfer Rate	BDR: 1Mbps , EDR: 2Mbps/3Mbps BLE 4.0: 1Mbps , BLE 5.4: 2Mbps QHS: HSL2- 2Mbps, HSL 3- 3Mbps, HSL 4- 4Mbps, HSL 5- 5Mbps, HSL 6- 6Mbps (Representative Rate: 6Mbps)
Modulation Type	BDR & EDR: GFSK, $\pi/4$ DQPSK, 8DPSK BLE 1M/2M: GFSK QHS: $\pi/4$ QPSK (HSL2, HSL3), $\pi/4$ DQPSK (HSL4), 8PSK (HSL5), D8PSK (HSL6)
Transmission Technology	BDR & EDR: FHSS BLE 1M/2M and QHS: DSSS
Maximum Transmit Power	9.59 dBm
Dwell Time	< 0.4s
Operating Temperature range	0°C - +40°C

1.3 Evaluation site

Laboratory	Site Address		FCC Designation number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	☒	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	TW3702
	☐	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E	
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Nei Hu District, Taipei City, 222 Taiwan.	TW0029	23862	

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1.4 Antenna Information:

Antenna Type	Freq. (GHz)	Peak Antenna Gain (dBi)
FPC	2.4GHz	1.64

Note: Antenna information is provided by the applicant.

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2 DETERMINATION OF MPE EXEMPTION

2.1 FCC

2.1.1 Single RF Source

As per §1.1307(b)(3)(i),

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

- (C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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Table 1 to § 1.1307(b)(3)(i)(C) –

Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)			Minimum Distance			Threshold ERP (W)
fL		fH	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	
0.3	-	1.34	159m	-	35.6m	1920 R ²
1.34	-	30	35.6m	-	1.6m	3450 R ² /f ²
30	-	300	1.6m	-	159mm	3.83 R ²
300	-	1500	159mm	-	31.8mm	0.0128 R ² f
1500	-	100000	31.8mm	-	0.5mm	19.2R ²

R= minimum separation distance in meter

f = frequency in MHz

2.1.2 Multiple RF Sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

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2.1.3 Single RF Source Evaluation Results

ANT	Frequency (MHz)	Distance (cm)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (mW)	x	ERP _{20cm} (mW)	P _{th} (mW)	P or ERP /P _{th}
BT	2402	3.05	10	1.64	9.49	8.892	1.898	3060.00	86.21	0.116
BLE	2402	3.05	10	1.64	9.49	8.892	1.898	3060.00	86.21	0.116
QHS	2402	3.05	10	1.64	9.49	8.892	1.898	3060.00	86.21	0.116

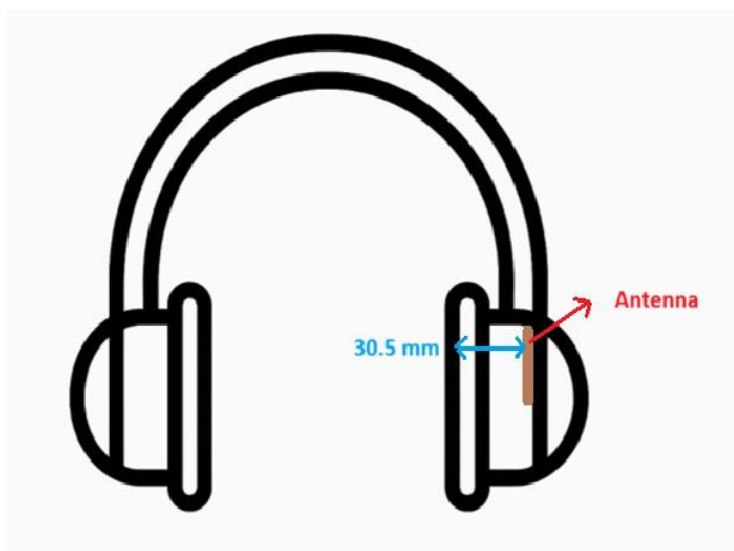
Note: For conservativeness, the lowest uplink frequency of each band is used to determine the minimum separation distance of that band. All the single RF source results (P or ERP) are less than their corresponding threshold (P_{th} or ERP_{th}), so they are exempt from RF exposure testing.

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2.1.4 Antenna location



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