

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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1 Cover Page

RF Exposure REPORT

Test Result:	Pass*	
Date of Issue:	2021-07-28	
Date of Test:	2019-04-17 to 2019-04-22 & 2021-07-03 to 2021-07-22	
Date of Receipt:	2018-10-31 & 2021-07-01	
	KDB447498 D01 General RF Exposure Guidance v06	
Standard(s) :	FCC Rules 47 CFR §2.1093	
Add Model No.:	Phonak RemoteControl	
Model No.:	Remote Control	
EUT Name:	Remote Control AudioNova	
Equipment Under Test (EUT):		
-	People's Republic of China 215216	
Address of Factory:	No.149 West Tun Cun Road Tongli Town Wujiang Suzhou Jiangsu	
Factory:	WUJIANG CENTURY BILLION ELECTRONIC TECHNOLOGY CO., LTD	
Address of Manufacturer:	Laubisrütistrasse 28, CH-8712 Stäfa · Switzerland	
Manufacturer:	Sonova AG	
Address of Applicant:	4520 Weaver Parkway, Warrenville Illinois United States.	
Applicant:	Sonova USA Inc.	
Application No.: FCC ID:	KWC-RC1	
Application No :	SHEM2106006707CR	

* In the configuration tested, the EUT complied with the standards specified above.

parlan shan

Parlam Zhan Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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Revision Record				
Version	Description	Date	Remark	
00	Components change and update product name	2021-07-28	Base on SHEM181000962602	

Authorized for issue by:		
	Bul wu	
	Bill Wu / Project Engineer	
	parlam zhan	
	Parlam Zhan /Reviewer	



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3 General Information

3.1 General Description of E.U.T.

·	
Power supply:	DC 3V By CR2032

3.2 Details of E.U.T.

•	
Antenna Gain	-3dBi (Provided by manufacturer)
Antenna Type	Monopole Antenna
Channel Spacing	2MHz
Modulation Type	GFSK
Data Rate:	1Mbps
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz
S/N:	000421
Frimware Version:	V5



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3.3 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China. Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory Company Number: 8617A

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits

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

[(max power of channel)/(min test separation distance)]*[$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is \leq 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. For 2.4G band device, the limit of worse case is

P_{max}≤3.0*D_{min})/√f =3.0*5/√2.480 =9.525mW



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM210600670701.

Test Data:

Test Mode	Test Channel	Power[dBm]	Peak Power (mW)
BLE	2402	0.79	1.20
BLE	2442	1.01	1.26
BLE	2480	0.29	1.07

5.2 RF Exposure Calculation

The Max Conducted Peak Output Power is 1.26mW.

Max Conducted Peak Output Power = 1.26 mW < 9.525mW

So the SAR report is not required.

--End of the Report--



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