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FCC SAR Exclusion Report

Product name : NOVA

Applicant : SenseGlove

FCC ID : 2A24H-NOVA01

Test report No.: P000023260 002 Ver 2.0

laboratory certification approvals



Laboratory information

Accreditation

Telefication complies with the accreditation criteria for test laboratories as laid down in ISO/IEC 17025:2017. The accreditation covers the quality system of the laboratory as well as the specific activities as described in the authorized annex bearing the accreditation number LO21 and is granted on 30 November 1990 by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

Telefication is designated by the FCC as an Accredited Test Firm for compliance testing of equipment subject to Certification under Parts 15 & 18. The Designation number is: NL0001.

Telefication is a Wireless Device Testing laboratory recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements.

The Industry Canada company number for Telefication is: 4173A.

Telefication is a registered Conformity Assessment body (CAB) under the Japan-EC MRA (Agreement on Mutual Recognition between Japan and the European Community). The registration number is: 201.

Documentation

The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at Telefication Netherlands.

Testing Location

2048			
Test Site	Kiwa Telefication BV		
Test Site location	Wilmersdorf 50		
	7327 AC Apeldoorn		
	The Netherlands		
	Tel. +31 88998 3393		
Test Site FCC	NL0001		
CABID	NL0001		



Revision History

Version	Date	Remarks	Ву
v1.00	10-08-2021	Release version	PvW
V2.0	09-03-2022	Changed calculation distance to 5 mm	PvW



Table of Contents

R	evision History					
1 General Description						
		Applicant				
		Manufacturer				
		Tested Equipment Under Test (EUT)				
	1.4	SAR Measurement Evaluation				
	1.4.1	Maximum Output Power				
		SAR Testing Exclusions Portable use				



1 General Description

1.1 Applicant

Client name: SenseGlove B.V.

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Zip code: 2629 JD

Telephone: 0031 0636548263

E-mail: Johannes@senseglove.com

Contact name: Mr. Johannes Luijten

1.2 Manufacturer

Manufacturer name: SenseGlove B.V.

Address: Molengraaffsingel 12, Delft, the Netherlands

Zip code: 2629 JD

Telephone: 0031 0636548263

E-mail: Johannes@senseglove.com

Contact name: Mr. Johannes Luijten

1.3 Tested Equipment Under Test (EUT)

Product name: NOVA
Brand name: SenseGlove
FCC ID: 2A24H-NOVA01

Product type: Wireless haptic and force feedback gloves

Model(s):

Batch and/or serial No. NOVA-DEV1-L

Software version: --

 Date of receipt:
 09-08-2021

 Tests started:
 09-08-2021

 Testing ended:
 09-08-2021



1.4 SAR Measurement Evaluation

1.4.1 Maximum Output Power

The maximum radiated power including tune-up tolerance is shown as below.

Mode	Output power (dBm)	
Bluetooth	0.3	

^{*} from Telefication test report no. P000023260 001

1.4.2 SAR Testing Exclusions, Portable use

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. For the test separation distance <= 50 mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. For the test separation distance > 50 mm, and the frequency at 100 MHz to 1500 MHz

$$\left[\text{(Threshold at 50 mm in Step 1)} + \text{(Test Separation Distance} - 50 \text{ mm)} \times \left(\frac{f_{\text{(MHz)}}}{150} \right) \right]_{\text{(mW)}}$$

For the test separation distance > 50 mm, and the frequency at > 1500 MHz to 6 GHz

[(Threshold at 50 mm in Step 1) + (Test Separation Distance -50 mm) $\times 10$]_(mW)

Mode	Max. Tune- up Power (dBm)	Max. Tune- up Power (mW)	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
Bluetooth	0.3	1.07	5	0.33	No

Note:

- When separation distance <= 50 mm and the calculated result shown in above table is <= 3.0, the SARtesting exclusion is applied.
- 2. When separation distance > 50 mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.