

FCC RF Exposure Report



Product name : CMWA 6120
Applicant : SKF
FCC ID : 2AJ99-CMWA-6120
IC : 26053-CMWA6120

Test report No. : P000580120 004 V3.0

Laboratory information

Accreditation

Kiwa Nederland B.V. 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 L015 and is granted by the Dutch Council For Accreditation (RvA: Raad voor Accreditatie).

Kiwa Nederland B.V. 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.

Kiwa Nederland B.V. 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 Kiwa Nederland B.V. is: 4173A. The CABID is NL0001.

Kiwa Nederland B.V. 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 Kiwa Nederland B.V.

Testing Location

Test Site	Kiwa Nederland B.V.
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	By
v0.5	05-05-2026	First draft	TK
v1.0	28-05-2026	Initial release	PvW
v2.0	03-06-2026	Updated address, Mira modulation and model variation	TK
v3.0	05-08-2026	Updated seperation distance form 30cm to 20cm	TK

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1 General Description

1.1 Applicant

Client name:	SKF
Address:	Meidoornkade 14
Zip code:	3992 AE, Houten
Telephone:	--
E-mail:	ludo.gommers@skf.com
Contact name:	Ludo Gommers

1.2 Manufacturer

Manufacturer name:	SKF France
Address:	204 Boulevard Charles de Gaulle
Zip code:	37540, Saint Cyr sur Loire
Telephone:	--
E-mail:	narges.mobarhani@skf.com
Contact name:	Narges Mobarhani

1.3 Tested Equipment Under Test (EUT)

Product name:	CMWA 6120
Brand name:	SKF
FCC ID:	2AJ99-CMWA-6120
IC:	26053-CMWA6120
Product description:	Wireless vibration sensor
Variant model(s):	CMWA 6120, CMWA 6120-EX, CMWA 6420
Batch and/or serial No.	--
Software version:	--
Hardware version:	--
Date of receipt:	15-04-2026
Tests started:	20-04-2026
Testing ended:	05-05-2026

1.4

Applicable standards

47 CFR § 1.1307 (b)(1)(i)(A)

1.5 Conclusions

The sample of the product showed **NO NON-COMPLIANCES** to the specifications stated in paragraph 1.4 of this report.

The results of the test as stated in this report, are exclusively applicable to the product items as identified in this report. Kiwa Nederland B.V. accepts no responsibility for any properties of product items in this test report, which are not supported by the tests as specified in paragraph 1.4 "*Applicable standards*".

Assessment is performed by:

Name : Ing. T. Keltjens

Review of assessment methods and report by:

Name : P. van Wanrooij, BASc

The above conclusions have been verified by the following signatory:

Date 10-08-2026

Name : ing. R. van Barneveld

Function : Test Engineer

Signature :



2 SAR exclusion Evaluation

2.1 Transmitter specifications

Transmitter 1

Variable (unit)	Value	Symbol
Conducted time-averaged output power (mW)	1.91	P
Time-averaged output power ERP (mW)	1.34	P_{ERP}
Operating frequency range (MHz)	2480	f
Separation distance (cm)	20	d
Separation distance (m)	0.2	R

*power values taken from test report P000580120 002 V1.0

Transmitter 2

Variable (unit)	Value	Symbol
Conducted time-averaged output power (mW)	1.91	P
Time-averaged output power ERP (mW)	1.34	P_{ERP}
Operating frequency range (MHz)	2480	f
Separation distance (cm)	20	d
Separation distance (m)	0.2	R

*power values taken from test report P000580120 002 V1.0

2.2 Evaluation calculations

Transmitter 1

Transmitter 1 is evaluated according to method B of KDB 447498 D04 v01

Method B:

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

Where:

$$x = -\log_{10} \left(\frac{60}{ERP_{20cm} * \sqrt{f}} \right)$$

$$ERP_{20cm}(mW) = \begin{cases} 2040 * f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6.0 \text{ GHz} \end{cases}$$

Filling in the values of d (cm) and f (GHz) as reported in clause 2.1 in the equations above gives the result:

$P_{th} = 3060 \text{ mW}$

$P_{ERP} = 1.34 \text{ mW}$ which is less than the calculated P_{th} so the EUT complies with the SAR based exemption requirement.

Transmitter 2

Transmitter 2 is evaluated according to method A/B/C of KDB 447498 D04 v01

Method B:

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

Where:

$$x = -\log_{10} \left(\frac{60}{ERP_{20cm} * \sqrt{f}} \right)$$

$$ERP_{20cm}(mW) = \begin{cases} 2040 * f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6.0 \text{ GHz} \end{cases}$$

Filling in the values of d (cm) and f (GHz) as reported in clause 2.1 in the equations above gives the result:

$P_{th} = 3060 \text{ mW}$

$P_{ERP} = 1.34 \text{ mW}$ which is less than the calculated P_{th} so the EUT complies with the SAR based exemption requirement.

2.3 Conclusion

Since the EUT does not cause exposure in excess of the general population limit (defined in 47 CFR 1.1310 e) (ii)), no additional mitigation actions are required.

<<END OF REPORT>>