

Assessment Report

Test report no.: 26012351-49699-0

Date of issue: 2026-06-24

Test result: The test item - **passed** - and complies with the listed standards.

Applicant

HYDAC Electronic GmbH

Manufacturer

Same as applicant

Test Item

HNT 206-F31-15-000

RF Exposure evaluation according to:

Canada RSS-102 Issue 6

Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
Calculation

Tested by
(name, function, signature)

Andreas Marx
Lab Expert



Approved by
(name, function, signature)

Andreas Bender
Deputy Managing Director



Applicant and Test item details	
Applicant	HYDAC Electronic GmbH Hauptstrasse 27 66128, Saarbrücken, Germany
Manufacturer	Same as applicant
Test item description	Continuous, non-contact level sensor with PCR radar technology
Model/Type reference	HNT 206-F31-15-000
Standard specific information	
Frequency	57GHz – 71 GHz
Technology	57-64 GHz Radar
Antenna	On-Package Antenna with external lens
Power supply	24 V DC Vnom, 18 - 30 V DC
Temperature range	-25 °C – +70 °C
Company number:	35649
IC (ISED CERTIFICATION NUMBER)	35649-HNT200AA
HMN (HOST MARKETING NAME)	N/A
PMN (PRODUCT MARKETING NAME)	HNT 200
HVIN (HARDWARE VERSION IDENTIFICATION NO.)	HNT206A0
FVIN (FIRMWARE VERSION IDENTIFICATION NO.)	HNT200RF00

Disclaimer and Notes

The content of this report relates to the mentioned test sample(s) only.

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Within this test report, a ☒ point / ☐ comma is used as a decimal separator.
If otherwise, a detailed note is added adjoined to its use.

Decision rule: See parent Test Report IBL-Lab GmbH.

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2 GENERAL INFORMATION

2.1 Administrative details

Testing laboratory	IBL-Lab GmbH Heinrich-Hertz-Allee 7 66386 St. Ingbert / Germany Fon: +49 6894 38938-0 Fax: +49 6894 38938-99 URL: http://ib-lenhardt.com/ E-Mail: info@ib-lenhardt.com
Accreditation / Designation	The testing laboratory is accredited by Deutsche Akkreditierungsstelle GmbH (DAkkS) in compliance with DIN EN ISO/IEC 17025:2018. Scope of testing and registration number: • Attachment to the accreditation certificate D-PL-21375-01-00 ○ Electronics ○ Electromagnetic Compatibility ○ Radio ○ Electromagnetic Compatibility and Telecommunication (FCC requirements) ○ Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards ○ Automotive EMC Website DAkkS: https://www.dakks.de/ The Deutsche Akkreditierungsstelle GmbH (DAkkS) is also a signatory to the ILAC Mutual Recognition Arrangement. • Designations ○ FCC Testing Laboratory Designation Number DE0024 ○ ISED ISED Company Number 27156 Testing Laboratory CAB Identifier DE0020 ○ Krafftahrt-Bundesamt KBA-P 00120-23
Testing location	IBL-Lab GmbH Heinrich-Hertz-Allee 7 66386 St. Ingbert / Germany
Date of receipt of test samples	-
Start – End of tests	- - -

2.2 Possible test case verdicts

Test sample meets the requirements	P (PASS)
Test sample does not meet the requirements	F (FAIL)
Requirement does not apply to the test sample	N/A (Not applicable)
Requirement not performed	N/P (Not performed)
Requirement not available	N/V (Not available)

2.3 Observations

No additional observations other than the reported observations within this test report have been made.

2.4 Opinions and Interpretations

No additional appropriate opinions or interpretations according ISO/IEC 17025:2017 clause 7.8.7 are within this test report.

2.5 Document History

-0 Initial Version

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3 ENVIRONMENTAL & TEST CONDITIONS

3.1 Environmental conditions of test lab

Temperature	25°C ± 5°C
Relative humidity	25-75% r.H.
Barometric Pressure	860-1060 mbar
Power supply	230/400 V AC 50Hz

4 TEST STANDARDS AND REFERENCES

Test standard (accredited)	Description
RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

Test standard (not accredited)	Description
-	-

Reference	Description
RSS-102.NS.MEAS Issue 1	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102
RSS-102.SAR.MEAS Issue 1	Measurement Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102
Notice 2016-DRS001	Applicability of Latest FCC RF Exposure KDB Procedures and Other Procedures
KDB 447498 D01: General RF exposure guidance v 06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

5 DEVICE DATA

Model name*	HNT 206-F31-15-000		
Serial number*	See parent test report		
Hardware version*	See parent test report		
Software version*	See parent test report		

*: as declared by applicant

Parameters declared by the manufacturer:
The declared maximum output powers including tune-up tolerances* are used with regard to the maximum antenna gains to find the maximum EIRP and ERP values.
*: The range of expected maximum output power variations from the rated nominal maximum output power specified for the product or wireless mode.

Device	☒ mobile ☐ portable
Safety Distance* [cm], Antenna to any body part	≥ 20 cm
Module integration	☐ yes ☒ no

*from antenna to any body part

Type	Band [GHz]	Simultaneous transmission	Max. EIRP (average) [dBm]
Radar	60	N/A	-7.04

Measurements of power levels and declared antenna gains detailed in this test report and were taken from the following RF module test report(s). EUT test information such as test equipment used, date of actual test, environmental conditions, measurement uncertainty and the person who performed the original tests are referenced in the listed test report/s.

Type	Test Report	Radio Standard	Issued by	Band [GHz]	EIRP: RF output Power + Antenna Gain (average) [dBm]	P.
Radar	26012351-49466-0	RSS-210, Issue 11 (2024-06)	IBL-Lab GmbH	60	9.30 peak Duty cycle [%]: 1.53 Calculated: -8.85	-11.0

5.1 Abbreviations used in this test report

APD	Absorbed power density
CB	Certification body
CAB	Conformity assessment bodies
CEM	Computational electromagnetics
EIRP	Effective isotropic radiated power
ER	Exposure ratio
EUT	Equipment under test
FRL	Field reference level
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
IPD	Incident power density
ISED	Innovation, Science and Economic Development Canada
Hz	Hertz
LPD	Localized power density
NS	Nerve stimulation
PD	Power density
pIPD	Spatial peak power density
psPD	Peak spatial-averaged power density
RF	Radio frequency
RL	Reference level
RMS	Root mean square
SAR	Specific absorption rate
SI	International system of units
SPLSR	SAR to peak location separation ratio
TPD	Time-averaged PD
TAS	Time averaged SAR
TER	Total exposure ratio
WPT	Wireless power transfer

6 MPE ASSESSMENT REQUIREMENTS

6.1 ISED RSS-102 Issue 6 - Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

6.1.1 RSS-102 Section 5.2.1 - Internal electric field

The limits for the internal electric field strength are intended to prevent the occurrence of **NS**. The basic restrictions for internal electric field strengths in excitable tissues, as shown in **table 2**, shall not be exceeded for frequencies between **3 kHz and 10 MHz**, inclusive.

Table 2: Internal electric field strength basic restrictions (3 kHz to 10 MHz)

Condition	Instantaneous RMS internal electric field strength (VRMS/m) (any part of the body)
Uncontrolled environment	$1.35 \times 10^{-4}f$
Controlled environment	$2.7 \times 10^{-4}f$

Note: f is frequency in Hz.

6.1.2 RSS-102 Section 5.2.2 - SAR

Table 3: SAR basic restrictions limits (100 kHz to 6 GHz)

Body region	Uncontrolled environment average SAR (W/kg)	Controlled environment average SAR (W/kg)	Averaging time (minutes)	Averaging mass (g)
Whole body	0.08	0.4	6	whole body
Localized head, neck and trunk	1.6	8	6	1
Localized limbs	4	20	6	10

6.1.3 RSS-102 Section 5.2.3 - Localized APD

Table 4: Localized APD basic restrictions limits (6 GHz-300 GHz)

Exposure scenario	Local APD (W/m ²)	Exposure duration (minutes)
Uncontrolled environment	20	6
Controlled environment	100	6

Local APD shall be averaged over a square 4 cm² surface area of the body. For localized APD above 30 GHz, an additional constraint, the spatial peak exposure, shall be imposed. The spatial peak is:

- two times the limits of the 4 cm² restrictions
- not averaged over an area

6.1.4 RSS-102 Section 5.3 - Reference levels

The following sections summarize the reference levels associated with NS, SAR and RF field strengths from 3 kHz to 300 GHz.

6.1.5 RSS-102 Section 5.3.1 - Electric and magnetic field strength levels (3 kHz to 10 MHz)

Table 5: Electric field strength reference levels

Frequency range (MHz)	Reference level basis	Reference level (ERL) for uncontrolled environment (V_{RMS}/m)	Reference level (ERL) for controlled environment (V_{RMS}/m)	Reference period
0.003 -10	NS	83	170	Instantaneous
1.10-10	SAR	$87/f^{0.5}$	N/A	6 minutes
1.29-10	SAR	N/A	$193/f^{0.5}$	6 minutes

Note: f is frequency in MHz.

Table 6: Magnetic field strength reference levels

Frequency range (MHz)	Reference level basis	Reference level (ERL) for uncontrolled environment (A_{RMS}/m)	Reference level (ERL) for controlled environment (A_{RMS}/m)	Reference period
0.003 -10	NS	90	180	Instantaneous
0.10-10	SAR	$0.73/f$	$1.6/f$	6 minutes

Note: f is frequency in MHz.

6.1.6 RSS-102 Section 5.3.2 - Electric field strength levels, magnetic field strength levels and power density levels (10 MHz to 300 GHz)

Table 7: RF field strength and power density limits for devices used by the general public (uncontrolled environment)

Frequency Range [MHz]	Electric Field [V/m rms]	Magnetic Field [A/m rms]	Power Density [W/m ²]	Reference Period [minutes]
10-20	27.46	0.0728	2	6
20-48	$58.07/f^{0.25}$	$0.1540/f^{0.25}$	$8.944/f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	$3.142 f^{0.3417}$	$0.008335 f^{0.3417}$	$0.02619 f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	$616000/f^{1.2}$
150000-300000	$0.158 f^{0.5}$	$4.21 \times 10^{-4} f^{0.5}$	$6.67 \times 10^{-5} f$	$616000/f^{1.2}$

Note: f is frequency in MHz.

**Table 6: RF field strength and power density limits for controlled-use devices
(controlled environment)**

Frequency Range [MHz]	Electric Field [V/m rms]	Magnetic Field [A/m rms]	Power Density [W/m ²]	Reference Period [minutes]
10-20	61.4	0.163	10	6
20-48	$129.8/f^{0.25}$	$0.3444/f^{0.25}$	$44.72/f^{0.5}$	6
48-100	49.33	0.1309	6.455	6
100-6000	$15.60 f^{0.25}$	$0.04138 f^{0.25}$	$0.6455 f^{0.5}$	6
6000-15000	137	0.364	50	6
15000-150000	137	0.364	50	$616000/f^{1.2}$
150000-300000	$0.354 f^{0.5}$	$9.40 \times 10^{-4} f^{0.5}$	$3.33 \times 10^{-5} f$	$616000/f^{1.2}$

Note: f is frequency in MHz.

6.1.7 RSS-102 Section 5.3.3 - Localized IPD

The localized IPD limits and exposure duration above **6 GHz and up to 300 GHz** are summarized in table 9.

**Table 9: Reference levels for local electromagnetic field exposure above
6 GHz and up to 300 GHz**

Exposure scenario	Local incident power density (W/m ²)	Exposure duration (minutes)
Uncontrolled environment	$55/f^{0.177}$	6
Controlled environment	$275/f^{0.177}$	6

Note: f is frequency in GHz.

Localized IPD is to be averaged over a square 4 cm² surface area of the body.

For localized IPD frequencies above 30 GHz, an additional constraint, the spatial peak exposure, shall be imposed. The spatial peak limit is:

- two times the limits of the 4 cm² restrictions
- not averaged over an area

6.2 Clauses (normative) of the standard

Clause	Requirement + Test	Result - Remark	Verdict
4	Certification requirements		P
4.5	Manuals requirements		P
4.5.1	The applicant is responsible for providing proper instructions to the user of the radio device and any usage restrictions including limits of exposure duration. The user manual shall provide installation and operating instructions, as well as any special usage conditions (e.g. proper accessory requirements, including the proper orientation of the device in the accessory and maximum antenna gain in the case of detachable antenna), in order to ensure compliance with applicable limits.		P
	the compliance separation distance shall be clearly stated in a prominent location in the user manual	This equipment complies with the ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of ≥ 20 cm from any body part of nearby persons.	P
	The user manual for devices intended for controlled use shall include:	Uncontrolled use	N/A
	information relating to the operating characteristics of the device		N/A
	the operating instructions to ensure compliance with applicable limits		N/A
	information on the installation and operation of accessories to ensure compliance with applicable limits and...		N/A
	contact information where the user can obtain Canadian information on RF exposure and compliance		N/A
4.5.2	Module integration manual	No module integration	N/A
	In cases where module integration will be performed by the host manufacturer, the module manufacturer shall provide a detailed module integration manual with specific instructions.		N/A
	These specific instructions will detail how to configure all of the control and operating parameters that are accessible by the host product for power control to ensure host compliance with the requirements of RSS-102.		N/A
	When the module is only approved for use by the module manufacturer or specific host manufacturers with whom the module manufacturer will directly		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	engage, the module integration manual may be simplified.		
6	Exemption limits for routine evaluations		P
	This section specifies the exemption limits for routine evaluations.		P
6.1	General		P
	All transmitters are exempt from routine NS, SAR, APD, IPD and/or FRL exposure evaluations provided that they comply with the appropriate requirements specified in the following sections. If the equipment under test (EUT) meets the appropriate requirements outlined in the following sections, applicants are required to submit a properly signed declaration of compliance (refer to Annex B).		P
	In addition, the following information, where applicable, shall also be part of the RF exposure technical brief:		P
	the root mean square (RMS) current:	No WPT	N/A
	the number of turns of the coil	No WPT	N/A
	the maximum output power	See manual	P
	the information that demonstrates how the maximum output power of the transmitter was derived.....:	Accredited RF test reports, see chapter 5	P
	the rationale for the separation distances applied (see table 10, table 11 and table 12), which must be based on the most conservative exposure condition for the applicable radio apparatus module or host platform test procedure requirements.....:	≥ 20 cm	P
	For an EUT that overlaps a frequency range with 2 types of evaluation (e.g. below 6 GHz and above 6 GHz), both exemption limits (e.g. SAR exemption limit and the APD exemption limit) shall be met to be exempt from the routine evaluation(s).	No overlapping frequency	N/A
	If the EUT does not meet the appropriate exemption limit, a complete NS, SAR, APD, IPD and/or FRL evaluation shall be performed. However, the exemption limits in table 10, table 11 and table 12, may be applied to reduce the number of test configurations (e.g. possibly eliminating the need for testing of a tablet edge). The RF exposure technical brief (refer to section 4.3) shall include a rationale for the separation distances applied, based on the	☒ EUT meets the appropriate limit ☐ EUT does not meet the appropriate limit ☐ NS ☐ SAR ☐ APD ☐ IPD ☐ FRL	P

Clause	Requirement + Test	Result - Remark	Verdict
	applicable radio apparatus module or host platform test procedure requirements. It is emphasized that exemption from routine evaluation is not an exemption from compliance with the applicable exposure limit(s) and the other relevant requirements.		
6.2	NS exemption limits		N/A
	This section specifies the NS exemption limits.	No frequency ≤ 10 MHz	N/A
6.2.1.	General		N/A
	NS exemption limits only apply to devices using near-field (non-radiative) technologies. The following sections outline exemption limits for inductive and capacitive systems.		N/A
6.2.2.	Inductive systems	No inductive system	N/A
	This section specifies the NS exemption limits for inductive systems.		N/A
	Section 6.2.2 applies to inductively-coupled systems, which deliver current to a transmission coil to couple energy through the magnetic field to a receiver (e.g. for wireless power transfer). An inductively coupled system is exempt from routine NS evaluation when the product of the number of turns, n , and RMS current, I_{RMS} (in amperes), in the transmission coil is less than or equal to the result on the right-hand side of equation (1), where x represents the separation distance in millimetres between the coil and exposed tissue.		N/A
	$nI_{rms} \leq 24 \left(\frac{7.827}{(x+0.2786)^{0.1557}} - 3.953 \right)^{-1} \dots$		N/A
	the geometry of the transmission coil is circular or square	☐ circular ☐ square	N/A
	the outer dimension (diameter for circular coils or edge length for square coils) of the transmission coil is less than or equal to 100 mm		N/A
	the minimum separation distance x is greater than or equal to 0.15 mm and $\therefore$		N/A
	the maximum separation distance x is less than or equal to 50 mm		N/A
6.2.3.	Capacitive systems	No capacitive system	N/A
	Exemption limits for capacitive systems are not currently available, therefore a detailed NS evaluation as per section 7.3 shall be performed.		N/A

Clause	Requirement + Test					Result - Remark					Verdict
6.3	SAR exemption limits										N/A
Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance											
f	≤ 5 mm	10 mm	15 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	≥ 50 mm	
[MHz]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	
≤ 300	45	116	139	163	189	216	246	280	319	362	
450	32	71	87	104	124	147	175	208	248	296	
835	21	32	41	54	72	96	129	172	228	298	
1900	6	10	18	33	57	92	138	194	257	323	
2450	3	7	16	32	56	89	128	170	209	245	
3500	2	6	15	29	50	72	94	114	134	158	
5800	1	5	13	23	32	41	54	74	102	128	
	Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation . The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.					≥ 20 cm					N/A
	For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 11 are multiplied by a factor of 2.5.										N/A
	For controlled-use devices where the 8 W/kg for 1 gram of tissue applies, the exemption limits for routine evaluation in table 11 Table 11 are multiplied by a factor of 5.										N/A
	For implanted medical devices, the exemption limit for routine SAR evaluation is set at an output power of 1 mW, regardless of frequency.										N/A
	Output Power level.....:										N/A
6.4	Localized APD exemption limits										N/A
	Devices operating at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distances defined in table 12 are exempt from APD evaluation . The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device, must be less than or equal to 20 cm for these exemption limits to apply.					No APD					N/A

Clause	Requirement + Test				Result - Remark					Verdict
Table 11: APD evaluation exemption limits for routine evaluation										
F	≤ 5 mm	10 mm	15 mm	20 mm	25 mm	30 mm	35 mm	40 mm	45 mm	≥ 50 mm
[GHz]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]	[mW]
7	3	13	26	40	57	82	117	161	201	240
9	3	13	21	35	57	80	108	146	186	229
20	3	9	15	24	36	49	65	85	106	131
30	3	14	24	38	56	78	105	137	173	214
	For controlled-use devices where the 100 W/m2 limit applies, the exemption limits for routine evaluation in table 12 are multiplied by a factor of 5.									N/A
	Output Power level.....:									N/A
6.5	IPD exemption limit									N/A
	A transmitter producing emissions in the 6GHz -30 GHz frequency range (i.e. where the occupied bandwidth (99% emission bandwidth) is fully contained within this range) is exempt from routine IPD evaluation if the output power (adjusted for tune-up tolerance) is less than or equal to 1 mW (0 dBm) .									N/A
	Output Power level.....:									N/A
6.6	FRL Field reference level exposure exemption limits									P
	Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device’s radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:				≥ 20 cm See chapter 7					P
	below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance).									N/A
	at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where <i>f</i> is in MHz									N/A
	at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)									N/A
	at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W									N/A

Clause	Requirement + Test	Result - Remark	Verdict
	(adjusted for tune-up tolerance), where f is in MHz		
	at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance)		P
7	Evaluation methods		N/A
7.1.5.	Devices with multiple transmitters		N/A
	Devices with multiple transmitters may be subject to evaluation by a combination of the evaluation methods specified in RSS-102, as applicable to each transmitter in the device.		N/A
	In addition, all transmitters that transmit simultaneously shall be accounted for in the overall declaration of compliance of the device.	No simultaneous transmission	N/A
7.1.7	Devices employing sensors or mechanisms to set transmission power levels	No such device	N/A
7.1.7.1	General requirements		N/A
	RF exposure mitigation strategies employed in devices can include the use of sensors or mechanisms to determine a device operating state. The operating state is employed to select specific output power for transmissions from the device. Sensors or mechanisms used for this purpose shall be validated by the manufacturer where applicable. The implementation of the sensors or mechanisms within a final product shall be validated by an ISED-recognized test laboratory. The validations are required to be completed before a device can be declared compliant to RSS-102.		N/A
	Examples of sensors or mechanisms that need to be validated include, but are not limited to, the following:		N/A
	proximity sensors		N/A
	motion sensors including, gyroscopes and accelerometers		N/A
	hall effect or gravity sensors		N/A
	voice routing (where the presence of audio is employed to determine operating state)		N/A
	Others		N/A
7.1.7.2	Manufacturer validation requirements		N/A
	In the RF exposure technical brief, manufacturers shall clearly indicate, which RF exposure mitigation sensors or mechanisms are integrated in their		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	device and the corresponding validation, which shall include the following:		
	the procedures employed to validate the sensor or mechanism.....:		N/A
	applicable operating states		N/A
	the threshold(s) or limits used to establish or identify a given operating state		N/A
	details of how the specific threshold(s) was (were) established including how device uncertainties/component specifications were considered in establishing the threshold(s). For example, motion sensors that use accelerometers have a predefined acceleration (in m/s) that is used to distinguish between when a device is in motion and when it is resting on a table.:		N/A
	details of all applicable and foreseeable use cases employed to determine thresholds and		N/A
	measurement results of the validations performed.....:		N/A
	This section (manufacturer validation requirements) applies for all sensor-type validations except for proximity sensors, which shall be validated using the procedures outlined in section 7.7 of IEC/IEEE 62209-1528.....:		N/A
7.1.8	SAR estimation for exempted transmitters		N/A
	SAR values from exempted transmitters shall be included in the total exposure assessment. A SAR value of 0.4 W/kg for 1 g, 1 W/kg for 10 g , or an estimated SAR value based on the ratio of the power level and the power exemption limit may be used to determine the standalone SAR value for test configurations that do not require a SAR evaluation based on test reductions or on the exemption limits outlined in section 6.3. The estimated SAR value, $SAR_{estimated}$, is calculated using equation	No SAR device	N/A
	SAR_{limit} is the applicable SAR limit (e.g. 1.6 W/kg for 1 g or 4 W/kg for 10 g)		N/A
	$SAR_{estimated} = \frac{P_{max}}{P_{max,exemption}} \times 0.25 \times SAR_{limit} W/kg$ P_{max} is the maximum power level including tune-up tolerance for the exempted transmitter		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	$P_{max,exemption}$ is the maximum power level of exemption at the same frequency and distance for the exempted transmitter		
7.1.9	APD estimation for exempted transmitters		N/A
	APD values from exempted transmitters shall be included in the total exposure assessment. An APD value of 5 W/m ² or an estimated APD value based on the ratio of the power level and the power exemption limit may be employed to determine the standalone APD value for test configurations that do not require an APD evaluation based on test reductions or on the exemption limits outlined in section 6.4. The estimated APD value, $APD_{estimated}$, is calculated using equation (3):	No APD device	N/A
	$APD_{estimated} = \frac{P_{max}}{P_{max,exemption}} \times 0.5 \text{ W/m}^2$ P_{max} is the maximum power level including tune-up tolerance for the exempted transmitter $P_{max,exemption}$ is the maximum power level of exemption at the same frequency and distance		
	SAR_{limit} is the applicable SAR limit (e.g. 1.6 W/kg for 1 g or 4 W/kg for 10 g)		N/A
7.1.10	WPT devices		N/A
	The following sections outline the requirements for WPT devices.	No WPT device	N/A
7.1.10.1	WPT clients		N/A
	There are no RF exposure requirements for the WPT subassembly of WPT clients. However, the RSS-102 requirements apply to other wireless modules included in the WPT device.		N/A
7.1.10.2	WPT sources		N/A
	The operating frequency of a WPT source will determine the required RF exposure assessment.:		N/A
7.1.10.2.1	Exemption from routine evaluation		N/A
	Type 2 WPT sources (as defined in RSS-216, Wireless Power Transfer Devices)		N/A
	RSS-216: Type 2 includes all WPT source subassemblies that use some form of modulation on the wireless power transfer frequency for transmitting information (including WPT source subassemblies using load modulation techniques – see definition in Section 4.7) and that comply with the following two conditions:		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	Fundamental emissions are below 490 kHz; and		N/A
	All emissions radiated by the device are at least 40 dB below the general field strength limits for licence-exempt radio apparatus set out in RSS-Gen.		N/A
	The WPT subassembly of Type 2 WPT sources (RSS-216) are exempt from all of the routine RF exposure evaluations specified in RSS-102.		N/A
	Type 1 and Type 3 WPT sources (as defined in RSS-216)		N/A
	RSS-216: Type 1 includes WPT source subassemblies that are incapable of transmitting any form of intelligent communication wirelessly (including communication related to power transfer management). Type 1 WPT source subassemblies are classified as interference-causing equipment, specifically Industrial, Scientific and Medical (ISM) equipment.		N/A
	RSS-216: Type 3 includes all WPT source subassemblies that cannot be classified as either Type 1 or Type 2, i.e. WPT source subassemblies that use some form of modulation on the power transfer frequency for transmitting intelligent communication and which do not meet one or both of the conditions listed for Type 2 WPT.		N/A
	Provided the requirements below are met, the WPT subassembly of Type 1 and Type 3 WPT sources is exempt from routine FRL and/or SAR evaluation.		N/A
	a. However, this exemption does not extend to NS evaluation. NS evaluation exemption shall be on the basis of the provisions outline in 6.2.		N/A
	b. Wireless power transfer frequency is below 1 MHz		N/A
	c. Output power from each primary coil (i.e. transmitter coil in the WPT source device) is less than or equal to 5 W.....		N/A
	d. The system may consist of more than one primary coil, charging one or more clients. If more than one primary coil are present, the coil pairs may be powered on at the same time		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	e. The WPT client device is placed in direct contact with or docked onto the WPT source		N/A
	f. The maximum coupling surface area of the WPT source is less than or equal to 400 cm ²		N/A
	g. The total leakage fields from all simultaneous transmitting coils are proven to be less than 30% of the applicable limits, as set out in section 5, at 10 cm from the WPT system in all directions.....		N/A
	h. The total leakage fields shall be calculated or measured based on actual and typical WPT clients of types selected such that they provide worst-case conditions. For WPT source devices with multiple fixed wireless power transfer zones that are only capable of powering/charging one client at a time, this requirement shall be met separately for each zone.		N/A
	For all types of WPT sources, it is emphasized that exemption from routine evaluation is not an exemption from compliance with the applicable exposure limit(s) and the other relevant requirements.		N/A
7.1.10.2.2	Required configuration during the assessment		N/A
	RF exposure shall be evaluated with the client devices charged/powered by the source device at maximum output power. Additionally, all transmitters, including those not used for wireless power transfer, shall be active simultaneously and at maximum power.		N/A
	For WPT sources designed as table top devices (e.g. wireless charging pads), the maximum allowable separation distance for any SAR-based assessment is 10 cm. Refer to RSS-102.NS.MEAS, Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102 for the allowable separation distance provisions for NS-based assessment.		N/A
7.1.11	Novel products/technologies	No Novel products/technologies	N/A
7.2	Assessment hierarchy		N/A
	Basic Restrictions:		--

Clause	Requirement + Test	Result - Remark	Verdict
	Measurement-based		N/A
	Computational		N/A
	Reference Levels:		--
	Measurement-based		N/A
	Computational		N/A
	The assessment method hierarchy is based on an approach that is optimized to minimize the amount of analysis required to determine compliance of a device to the exposure limits outlined in section 5. If it is permitted to assess a device against the reference levels, one may choose to perform the assessment via measurements or simulations. If compliance cannot be demonstrated against the reference levels, a subsequent analysis shall be performed against the basic restrictions to demonstrate compliance against the requirements of RSS-102.		N/A
7.3	Nerve stimulation		N/A
	Devices that operate within the frequency range of 3 kHz to 10 MHz shall have an assessment against NS. Furthermore, portable devices operating between 100 kHz and 10 MHz shall also have an assessment against SAR as outlined in section 7.4.	No frequencies $\leq$ 10 MHz	N/A
	NS compliance may be determined by measurements or simulations. All measurement-based NS evaluations shall be completed in accordance with RSS-102.NS.MEAS. All computational-based NS evaluations shall be completed in accordance with RSS-102.NS.SIM, Simulation Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102.		N/A
	For NS, a basic restriction assessment is generally preferred, particularly when the exposure region is within the reactive near-field region of the transmitting antenna(s), which is often the case below 10 MHz.		N/A
	When the practical limitations of the test equipment or tissue-equivalent phantom prevent a measurement-based assessment, a simulation (computational) assessment against the basic restrictions may be performed.		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	It is permissible to assess against the reference levels when an assessment against the basic restrictions is not feasible or practical. In these situations, the reference levels become levels that shall not be exceeded.		N/A
7.4	SAR		N/A
	Portable devices (operated at 20 cm or less from the body) containing a radiating element operating at a frequency between 100 kHz and 6 GHz shall undergo a SAR evaluation.		N/A
	SAR compliance may be assessed by measurements or by simulations. All measurement-based SAR evaluations shall be completed in accordance with RSS- 102.SAR.MEAS. All computational-based SAR evaluations shall be completed in accordance with RSS-102.SAR.SIM, Simulation Procedure for Assessing Specific Absorption Rate (SAR) Compliance in Accordance with RSS-102 (currently in development).		N/A
7.5	LPD Localized power density		N/A
	Devices that have a radiating element that operate above 6 GHz and up to 300 GHz shall undergo a power density evaluation.		N/A
	Portable devices operating between 6 GHz and 10 GHz shall normally be assessed in accordance with the requirements for localized APD-based analyses found in section 7.5.1. Portable devices may be assessed against the reference levels (localized IPD) when an assessment against the basic restrictions is not feasible or practical. In these situations, the reference levels become levels that shall not be exceeded.		N/A
	Mobile devices should be assessed in accordance with the requirements for localized IPD-based analyses found in section 7.5.2.		N/A
7.5.1	Localized absorbed power density		N/A
	Portable devices operating from 6 GHz to 7.125 GHz shall be assessed in accordance with the requirements outlined in the relevant annex of RSS-102.SAR.MEAS.		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	Localized APD requirements for portable devices operating above 7.125 GHz are currently not available. Meanwhile, these portable devices can be evaluated in accordance with the requirements outlined in section 7.5.2.		N/A
7.5.2	Localized incident power density		N/A
	Localized IPD compliance may be determined by measurements or by simulations. All measurement-based localized IPD evaluations shall be completed in accordance with RSS-102.IPD.MEAS, Measurement Procedure for Assessing Incident Power Density (IPD) Compliance in Accordance with RSS-102. All computational-based localized IPD evaluations shall be completed in accordance with RSS-102.IPD.SIM, Simulation procedure for assessing incident power density (IPD) compliance in accordance with RSS-102.		N/A
	For portable devices operating above 6 GHz, but not in the 60 GHz band, a General Inquiry form shall be submitted to ISED to describe the proposed method and how it can be employed to perform a conservative RF exposure assessment.		N/A
7.6	Field reference level (FRL) evaluation		N/A
	Mobile devices or other apparatus under the scope of RSS-102 requiring an FRL exposure evaluation shall be assessed in accordance with the requirements outlined in the latest version of IEEE C95.3.		N/A
	If the device is designed such that more than one antenna can transmit at the same time (i.e. simultaneous transmission), the FRL exposure evaluation shall be conducted while all antennas are transmitting. The individual exposure level ratio of each transmitting antenna shall be totalled and used for compliance purposes. Alternatively, a probe shape to the reference levels limits specified in 5.3 with a wide enough bandwidth to capture all the simultaneous transmission may be used to perform the FRL assessment without summing the individual exposure level ratio.		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	If the device has more than one antenna, but is not designed to have more than one antenna transmit at the same time, the FRL exposure evaluation of the device shall be performed for each of the individually transmitting antennas. The maximum FRL value shall be recorded and used for compliance purposes.		N/A
	If the device combines groups of simultaneous and non-simultaneous transmitting antennas, the worst-case of the above scenarios applies.		N/A
	An FRL evaluation is permitted for devices with antennas operating in the far field with separation distance of less than 20 cm ; the exposure condition shall be in the far field of the antenna.		N/A
8	Total exposure		N/A
	Compliance with the limits to prevent NS and thermal effects is demonstrated if the worst-case total exposure ratios (TERs) corresponding to each effect are less than or equal to 1. These TERs are evaluated separately, based on the corresponding NS- or thermal-based exposure ratios and in accordance with the following sections.		N/A
8.1	NS-based total exposure ratio (3 kHz to 10 MHz)		N/A
	The frequency range associated with the NS-based limits are outlined in sections 5.2.1 and 5.3.1. As a result, the NS-based TER, denoted by TER_{NS} can be evaluated based on the NS-based exposure ratios obtained in RSS-102.NS.MEAS and/or RSS-102.NS.SIM in equation (4).		N/A
	$TER_{NS} = \sum_{n=1}^N ER_{NS-BR,n} + \max \left[\sum_{m=1}^M ER_{NS-ERL,m}, \sum_{m=1}^M ER_{NS-HRL,m} \right]$ N is the number of simultaneously operating transmitters for which an assessment against the basic restriction for internal E-field has been performed $ER_{NS-BR,n}$ is the NS-based exposure ratio of the n-th simultaneously operating transmitter for which an assessment against the basic restriction for internal E- field has been performed M is the number of simultaneously operating transmitters for which an assessment against the NS-based reference levels has been performed $ER_{NS-ERL,m}$ is the NS-based exposure ratio of the m-th simultaneously operating transmitter for which an assessment against the NS-based reference level for incident E-field has been performed and		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	$ER_{NS-HRL,m}$ is the NS-based exposure ratio of the m-th simultaneously operating transmitter for which an assessment against the NS-based reference level for incident H-field has been performed		
	The maximum TER_{NS} values shall be provided in the RF exposure technical brief for each exposure condition, and the highest value shall be clearly indicated. Compliance with NS-based limits is demonstrated if the worst-case $TER_{NS} \leq 1$.		N/A
	Situations where the $TER_{NS} > 1$ shall be reported to ISED via a General Inquiry form. Alternative methods considering point-by-point evaluations may be considered on a case-by-case basis.		N/A
8.2	Thermal-based total exposure ratio		N/A
	The thermal-based exposure ratio is divided into two key components:		N/A
	the thermal-based ER at and below 10 MHz, denoted $ER_{therm \leq 10 \text{ MHz}}$		N/A
	the thermal-based ER above 10 MHz, denoted $ER_{therm > 10 \text{ MHz}}$		N/A
	To evaluate the TER, the NS-based exposure ratio shall not be added to the thermal-based exposure ratios. Each shall be assessed separately.		N/A
8.2.1	Thermal-based ER below 10 MHz		N/A
	The exposure ratio (ER_{EH-SAR}) for transmitters operating between 100 kHz and 10 MHz for which compliance was determined against the SAR-based reference levels for the incident E- and/or H-fields is shown in equation (5).		N/A
	$ER_{EH-SAR,a} = \begin{cases} \left(\frac{H_{SAR,a}}{H_{RL-SAR,a}} \right)^2, & 100 \text{ kHz} \leq f_a < f_{env} \\ \max \left[\left(\frac{E_{SAR,a}}{E_{RL-SAR,a}} \right)^2, \left(\frac{H_{SAR,a}}{H_{RL-SAR,a}} \right)^2 \right], & f_{env} \leq f_a < 10 \text{ MHz} \end{cases}$ $H_{SAR,a}$ is the RMS of the incident H-field from the a-th transmitter, time-averaged in accordance with a SAR-based assessment $H_{RL-SAR,a}$ is the SAR-based reference level for the incident H-field, which is applicable to the a-th transmitter $E_{SAR,a}$ is the RMS of the incident E-field from the a-th transmitter, time-averaged in accordance with a SAR-based assessment $E_{RL-SAR,a}$ is the SAR-based reference level for the incident E-field that is applicable to the a-th transmitter. f_a is the operating frequency of the a-th transmitter and f_{env} is 1.10 MHz when considering the limits for uncontrolled environments and 1.29 MHz when considering the limits for controlled environments, in accordance with Health Canada's Safety Code 6		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	The exposure ratio resulting from SAR-based assessments on the basic restriction (ER_{SAR-BR}) for transmitters operating at or below 10 MHz is shown in equation (6).		N/A
	$ER_{SAR-BR,b} = \frac{SAR_b}{SAR_{limit-BR}}$ SAR_b is the SAR value for the b-th transmitter/test frequency and $SAR_{limit-BR}$ is the basic restriction limit that is applicable to the b-th transmitter/test frequency.		
	The exposure ratio resulting from a SAR assessments based on the reference level (ER_{SAR-RL}) for transmitters operating at or below 10 MHz is shown in equation (7).		N/A
	$ER_{SAR-RL,c} = \frac{SAR_c}{SAR_{limit-RL}}$ SAR_c is the SAR value for the c-th transmitter/test frequency and $SAR_{limit-RL}$ is the reference level that is applicable to the c-th transmitter/test frequency		N/A
	The ER associated with the thermal-based ER at or below 10 MHz, $ER_{therm \leq 10 \text{ MHz}}$ is shown in equation(8)		N/A
	$ER_{therm \leq 10 \text{ MHz}} = \sum_{a=1}^A ER_{EH-SAR,a} \sum_{b=1}^B ER_{SAR-BR,b} \sum_{c=1}^C ER_{SAR-RL,c}$		N/A
8.2.2	Thermal-based ER above 10 MHz		N/A
	Thermal-based ER for transmitters above 10 MHz can be calculated using SAR-, APD-, and IPD-based measurements/simulation results as outlined in sections 8.2.2.1, 8.2.2.2 and 8.2.2.3, respectively. The exposure from exempted transmitters shall be included in the determination of the thermal-based ER above 10 MHz.		N/A
8.2.2.1	SAR-based ER (above 10 MHz to 6 GHz)		N/A
	The thermal-based ER for transmitters operating above 10 MHz ($ER_{therm > 10 \text{ MHz}}$) is evaluated based on the operating frequency or test frequency and the type of measurement or simulation result. The ER resulting from SAR-based measurements / simulations above 10 MHz to 6 GHz can be calculated using equation (9)		N/A
	$ER_{therm > 10 \text{ MHz},t} = \frac{SAR_t}{SAR_{limit,t}}, 10 \text{ MHz} < f_t \leq 6 \text{ GHz}$ SAR_t is the SAR value of the t-th transmitter/test frequency		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	$SAR_{limit,t}$ is the basic restriction limit that is applicable for the t-th transmitter and f_t is the operating frequency / test frequency of the t-th transmitter		
	The ER resulting from SAR-based exempted transmitters can be calculated using equation (10):		N/A
	$ER_{therm>10MHz,u} = \frac{SAR_{estimated,u}}{SAR_{limit,u}}, 10\text{ MHz} < f_u \leq 6\text{ GHz}$ $SAR_{estimated,u}$ is the SAR value of the u-th transmitter/test frequency (refer to section 7.1.8) $SAR_{limit,u}$ is the basic restriction limit that is applicable for the u-th transmitter and f_u is the operating frequency / test frequency of the u-th transmitter		N/A
8.2.2.2	APD-based ER (above 6 GHz to 10 GHz)		N/A
	ER from APD-based measurements above 6 GHz to 10 GHz can be calculated using equation (11):		N/A
	$ER_{therm>10MHz,v} = \frac{APD_v}{APD_{limit,v}}, 6\text{ GHz} < f_v \leq 10\text{ GHz}$ APD_v is the SAR value of the v-th transmitter/test frequency $APD_{limit,v}$ is the basic restriction limit that is applicable for the v-th transmitter and f_v is the operating frequency / test frequency of the v-th transmitter		N/A
	The ER resulting from APD-based exempted transmitters can be calculated using equation (12):		N/A
	$ER_{therm>10MHz,w} = \frac{APD_{estimated,w}}{APD_{limit,w}}, 6\text{ GHz} < f_w \leq 30\text{ GHz}$ $APD_{estimated,w}$ is the SAR value of the v-th transmitter/test frequency $APD_{limit,w}$ is the basic restriction limit that is applicable for the v-th transmitter and f_w is the operating frequency / test frequency of the v-th transmitter		N/A
	$ER_{therm>10MHz,w} = \frac{APD_{estimated,w}}{APD_{limit,w}}, 6\text{ GHz} < f_w \leq 30\text{ GHz}$ $APD_{estimated,w}$ is the SAR value of the w-th transmitter/test frequency $APD_{limit,w}$ is the basic restriction limit that is applicable for the w-th transmitter and f_w is the operating frequency / test frequency of the w-th transmitter		N/A
8.2.2.3	IPD-based ER (above 6 GHz to 300 GHz)		N/A
	IPD-based measurements above 6 GHz to 30 GHz can be calculated using equation (13):		N/A
	$ER_{therm>10MHz,x} = \frac{psPD_x}{psPD_{limit,x}}, 6\text{ GHz} < f_x \leq 30\text{ GHz}$ $psPD_x$ is the SAR value of the x-th transmitter/test frequency $psPD_{limit,x}$ is the basic restriction limit that is applicable for the x-th transmitter and f_x is the operating frequency / test frequency of the x-th transmitter		N/A
	PD-based measurements above 30 GHz to 300 GHz can be calculated using equation (14):		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	$ER_{therm>10MHz,y} = \max \left[\frac{psPD_y}{psPD_{limit,y}}, \frac{pPD_y}{pPD_{limit,y}} \right], 30 \text{ GHz} < f_y \leq 300 \text{ GHz}$ $psPD_y$ is the peak spatial-average power density value for the y-th transmitter $psPD_{limit,y}$ is the applicable peak spatial-average power density reference level limit for the y-th transmitter pPD_y is the spatial peak power density value for the y-th transmitter $pPD_{limit,y}$ is the applicable spatial peak power density reference level limit for the y-th transmitter and f_y is the operating frequency/test frequency the y-th transmitter		N/A
8.2.2.4	Devices producing emissions in the 6 GHz to 30 GHz range under the 1 mW exemption		N/A
	The ER for a transmitter producing emissions in the 6 GHz to 30 GHz frequency range and is exempted in accordance with section 6.5 (i.e. where the occupied bandwidth (99% emission bandwidth) and is fully contained within this range) shall be accounted for by using equation (15):		N/A
	$ER_{exempted_{1mW,z}} = 0.1 \left(\frac{\max[P_{cond,z}, P_{EIRP,z}]}{1mW} \right)$ $ER_{exempted_{1mW,z}}$ is the exposure ratio associated with the z-th exempted transmitter $P_{cond,z}$ is the maximum source based, time-averaged conducted power produced by the the z-th exempted transmitter (mW) (i.e. delivered to a perfectly matched, load/antenna, adjusted for tune-up tolerance) and $P_{EIRP,z}$ is the maximum source based, time-averaged EIRP produced by the the z-th exempted transmitter (mW), adjusted for tune-up tolerance		N/A
	The exposure ratio contribution from exempted transmitters ($ER_{exempted_{1mW,z}}$) shall be included in the TER evaluation for all device surfaces and edges that are within 25 mm of the associated antenna.		N/A
8.2.3	TER		N/A
	The various $ER_{therm \leq 10MHz}$ and $ER_{therm > 10MHz}$ from each of the different transmitters and different exposure metrics can be combined to determine the TER for all transmitters (TER_{therm}) using equation (16):		N/A
	$TER_{therm} = ER_{therm \leq 10} + \sum_{t=1}^T ER_{therm > 10MHz,t} + \sum_{u=1}^U ER_{therm > 10MHz,u}$ $+ \sum_{v=1}^V ER_{therm > 10MHz,v} + \sum_{w=1}^W ER_{therm > 10MHz,w} + \sum_{x=1}^X ER_{therm > 10MHz,x}$ $+ \sum_{y=1}^Y ER_{therm > 10MHz,y} + \sum_{z=1}^Z ER_{therm > 10MHz,z}$		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	T is the number of simultaneously operating transmitters for which an assessment against the basic restriction for SAR may have been performed (refer to section 8.2.2.1) U is the number of simultaneously operating exempted transmitters for which an estimate against the basic restriction for SAR may have been performed (refer to section 8.2.2.1) V is the number of simultaneously operating transmitters for which an assessment against the basic restriction for APD may have been performed (refer to section 8.2.2.2) W is the number of simultaneously operating exempted transmitters for which an estimate against the basic restriction for APD may have been performed (refer to section 8.2.2.2) X is the number of simultaneously operating transmitters (operating between 6 GHz and 30 GHz) for which an assessment against the IPD level may have been performed (refer to section 8.2.2.3) Y is the number of simultaneously operating transmitters (operating between 30 GHz and 300 GHz) for which an assessment against the IPD level may have been performed (refer to section 8.2.2.3) and Z is the number of simultaneously operating transmitters for which the 1 mW exemption as outlined in section 6.5 applies (refer to section 8.2.2.4)		
	Only contributions from unique transmitters shall be included in the calculation of the TER_{therm} . For instance, both APD and $psPD$ evaluations in the 6 GHz to 10 GHz frequency range for the same transmitter should not be summed; the maximum ER is to be employed in this instance.		N/A
	Compliance with the SAR-PD-based RF exposure limits is achieved if $TER_{therm} \leq 1$. Refer to section 8.2.4 if $TER_{therm} > 1$ and if the device contains multiple antennas or multiple transmitters.		N/A
8.2.4	Devices with multiple antennas or multiple transmitters		N/A
	The determination of $TER_{therm} > 10\text{ MHz}$ in section 8.2.3 assumes that all transmitters are simultaneously transmitting from the same location. However, ISED accepts the FCC's SAR to peak location separation ratio (SPLSR) method to determine test reduction for simultaneous transmission when $TER_{therm} > 1$ for SAR and APD applications (below 10 GHz). The SPLSR is calculated in accordance with equation (17):		N/A
	Note: Simultaneously transmitting antenna combinations must be considered one pair at a time to determine SPLSR for test reduction consideration.		N/A

Clause	Requirement + Test	Result - Remark	Verdict
	Simultaneous transmission testing may be exempted when the transmitters are considered to be spatially separated as follows:		N/A
	SPLSR ≤ 0.02 for head, neck and trunk exposure conditions		N/A
	SPLSR ≤ 0.013 for limb exposure conditions		N/A
	To apply SPLSR, the separation distance and configuration for each individual transmitter shall be the same. This may imply conducting additional SAR measurements on test conditions that are normally exempted through test reduction.		N/A
	All other situations where the TER exceeds unity shall be reported to ISED. Alternative methods considering point-by-point evaluations may be considered on a case-by-case basis. The TER shall be documented in the RF exposure technical brief.		N/A
	$SPLSR = \frac{\left(\max \left[\frac{SAR_1}{SAR_{limit}}, \frac{APD_1}{APD_{limit}} \right] + \max \left[\frac{SAR_2}{SAR_{limit}}, \frac{APD_2}{APD_{limit}} \right] \right)^{1.5}}{Distance}$ - SAR₁ and SAR₂ are the SAR value for the 1st and 2nd transmitter, respectively - SAR_{limit} is the applicable basic restriction limit - APD₁ and APD₂ is the APD value for the 1st and 2nd transmitter, respectively - APD_{limit} is the applicable basic restriction limit and - Distance is the separation distance between the peak exposure location of the 1st and 2nd transmitter in mm		N/A

7 MPE CALCULATION METHOD

7.1 Standalone MPE Calculation Method

Conversion of output power

$$P(mW) = 10^{\left(\frac{Lp(dBm)}{10}\right)} \times 1mW$$

E:	E-field strength [V/m]
P:	Power input to antenna [W]
G:	Gain of the antenna in the direction of interest relative to an isotropic radiator [dBi]
PG:	EIRP (effective isotropic radiated power) [W]
r:	Distance [m]

$$E = \frac{\sqrt{30PG}}{r}$$

S:	Power density [W/m ²]
P:	Power input to antenna [W]
G:	Gain of the antenna in the direction of interest relative to an isotropic radiator [dBi]
PG:	EIRP (effective isotropic radiated power) [W]
r:	Distance [m]

$$S = \frac{PG}{4\pi r^2}$$

The EUT is a wireless device with a distance of the antenna of ≥ 20 cm from any body part of nearby persons.

Type	Band [GHz]	Max. EIRP [dBm]	Max. EIRP [W]	Power Density [W/m ²]	Reference	ISED Limit [W/m ²]	ISED Verdict	ISED Exemp. [W]	ISED Exemp. fulfilled
Manufacturer declared values									
Radar	60	-7.04	0.0001977	0.0003934	6.6 Field ref. levels exposure exemptions	N/A	N/A	5	P
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Measured values for reference									
Radar	60	-8.85	0.0001304	0.00026	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Tune-up tolerance, see chapter 4.1; for the specific value, please see the following KDB 447498 D01: General RF exposure guidance v 06 - RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

Requirement: Each device must be evaluated for SAR or MPE compliance in the required operating modes and test configurations, at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than **2 dB** lower than the maximum *tune-up tolerance limit*.

The range of expected maximum output power variations from the rated nominal maximum output power specified for the product or wireless mode is referred to as the tune-up tolerance in this document. All devices must be tested within the *tune-up tolerance specification range*.

Verdict: Passed

7.2 RSS-102 Section 7.2 – Nerve Stimulation

Frequency (kHz)	Location						Max	Limit	Verdict
	Upper	Back	Left	Right	Top	Bottom			
	H-Field measurements [A/m]						[A/m]	[A/m]	
									N/A
	E-Field measurements [V/m]						[V/m]	[V/m]	--
									N/A

7.3 RSS-102 Section 8 Simultaneous transmission MPE – Total exposure

Type	Band [GHz]	Max. EIRP [dBm]	Max. EIRP [W]	Power Density [W/m²]	Power Density [mW/cm²]	ISED Limit [W/m²]	ISED Verdict	ISED Exemp. EIRP [W]	ISED Exemp. fulfilled
						N/A	-	N/A	
						N/A	-	N/A	
						N/A	-	N/A	
						N/A	-	N/A	
$\Sigma(f_k)$	-	-	-			N/A	N/A	N/A	N/A

8 MPE CONCLUSION

ISED: The results do comply with the requirements.

9 LIST OF EQUIPMENT USED

#	Equipment Class	ID	Calibration due date
	N/A		

Annex 1 - RSS-102 Annex A – RF exposure technical brief cover sheet

The worst-case values of APD, IPD, SAR, NS and/or FRL shall be reported in the sections below. Values or the following codes must be reported: N/A for not applicable, N/P for Not Performed or N/V for Not Available.

Product Information			
HVIN:	--	ISED Certification #:	--
PMN:	--	# of Transmitters:	--
HMN:	--	General Public / Control Use Limits	--
FVIN:	--	--	--

	APD Reported Value N/A				IPD			
Test Lab	IBL-Lab GmbH Heinrich-Hertz-Allee 7 66386 St. Ingbert / Germany							
Exposure Condition	Head	Body	Limb	Hotspot	Head	Body	Limb	Hotspot
Compliance Distance (mm)								
APD or IPD Value (W/m²)								
pAPD or pIPD Value (W/m²)								
Measured or Simulated	measured	measured	measured	measured	measured	measured	measured	measured

	SAR				NS				FRL
Test Lab	IBL-Lab GmbH Heinrich-Hertz-Allee 7 66386 St. Ingbert / Germany								
ExposureCondition	Head	Body	Limb	Hotspot	Body / Torso / Head	Leg	Arm	Hand / Foot	FRL
SAR Value (W/kg)					--	--	--	--	--
Power Density (W/m²)	--	--	--	--	--	--	--	--	
Electric FS (V/m)	--	--	--	--					--
Int. Elect FS Basic Restriction (V/m)	--	--	--	--		--	--	--	--
Magnetic FS (A/m)	--	--	--	--					--
Compliance Distance (mm)									
Measured or Simulated	measured	measured	measured	measured	measured	measured	measured	measured	--
Measured or Calculated	--	--	--	--	--	--	--	--	measured

Agreement Signature			
ATTESTATION: I attest that the information in this Annex is correct; that the Technical Brief was prepared and the information contained therein is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the applicable RF exposure limits set forth in RSS-102.			
Applicant/Agent Name:	Andreas Bender	Applicant/Agent Title:	Deputy Managing Director (IBL-Lab GmbH)
Applicant/Agent Signature:	--	--	--

Annex 2 - RSS-102 Annex B – Declaration of RF exposure compliance for exemption from routine evaluation limits

Submission of this annex is only required if the device meets the exemption limits for the routine evaluation in section 6 of RSS-102.

Product Information			
HVIN:	HNT206A0	ISED Certification #:	35649-HNT200AA
PMN:	HNT 200	FVIN:	HNT200RF00
HMN:	N/A	Test Lab (Optional):	IBL-Lab GmbH Heinrich-Hertz-Allee 7 66386 St. Ingbert / Germany

Applicable Exemption Limit					
	NS	SAR	APD	IPD	FRL
Select Limit used for Exemption	☐	☐	☐	☐	☒

Agreement Signature			
ATTESTATION: I attest the radiocommunication apparatus meets the exemption from routine evaluation limits Section 6 of RSS-102; that the Technical Brief was prepared and the information contained therein is correct, that the device evaluation was performed or supervised by the undersigned, that the applicable measurement methods and evaluation methodologies have been followed and that the device meets the SAR,NS, APD, IPD and/or FRL exposure limits of RSS-102.			
Applicant/Agent Name:	Andreas Bender	Applicant/Agent Title:	Deputy Managing Director (IBL-Lab GmbH)
Applicant/Agent Signature:		--	2026-06-24

End of Assessment Report
