

REPORT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

No. 2508043STO-106

EQUIPMENT

Equipment: 13.56 MHz OSDP RFID reader
Type/Model: A4030-E, A4131-E
Additional type/model*: A4130-E
Manufacturer: Axis Communications AB
Tested by request of: Axis Communications AB

*See opinions and interpretations clause 2.2

SUMMARY

Based on the assessment in this statement, the equipment is determined to **comply** with the following requirements without testing:

CFR 47 §1.1307
RSS-102 Issue 6

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Revision History

Test report number	Date	Description	Changes
2508043STO-106	March 11, 2026	First release	--

CONTENTS

	Page
1 Client Information	4
2 Equipment	4
2.1 Identification of the equipment	4
2.2 Opinions and interpretations	4
3 Test Specifications	5
3.1 Standards	5
3.2 Additions, deviations and exclusions from standards	5
3.3 Decision rule	5
4 Summary	5
5 RF Exposure, single transmitter	6
5.1 Limits	6
5.2 Calculations	7
5.3 Results	7

1 CLIENT INFORMATION

This assessment has been done by request of:

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Name of contact	Alexander Holmström
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2 EQUIPMENT

2.1 Identification of the equipment

Equipment:	13.56 MHz OSDP RFID reader
Type/Model:	A4030-E, A4131-E
Additional model:	A4130-E
Brand name:	AXIS
Manufacturer:	Axis Communications AB
Transmitter frequency range:	13.553 – 13.567 MHz
Measured output power eirp:	A4030-E: -40.3 dBm A4131-E: -37.1 dBm
User separation distance:	5mm
Exposure conditions:	☐ Controlled environment (occupational) ☒ Uncontrolled environment (general population)
Region of body:	☐ Head or trunk ☒ Limbs

2.2 Opinions and interpretations

The following type is also included as additional type in this test report:
A4130-E

The difference as compared to the tested type is (according to the manufacturer):
The A4030-E, A4130-E, and A4131-E are new Axis 13.56MHz RFID card readers. A4030-E and A4130-E have the same functionality but different mechanical formfactor. A4131-E is the same as A4130-E with the only difference being that A4131-E has touch keypad functionality with backlight.

The difference is considered not to affect EMC-characteristics when compared to the tested type. Therefore, the tests performed is also considered to cover the additional types.

3 TEST SPECIFICATIONS

3.1 Standards

CFR 47: Code of Federal Regulations Title 47: Telecommunications §1.1307.

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

3.2 Additions, deviations and exclusions from standards

No additions, deviations or exclusions have been made from standards.

3.3 Decision rule

The statements of conformity are reported as:

Passed – When the measured values are within the specified limits.

Failed – When one or more measures values are outside the specified limits.

4 SUMMARY

The evaluation has been carried out at the Intertek Semko AB premises in Kista, Sweden.

The results in this report apply only to sample tested:

Test	Result
RF Exposure, single transmitter	PASS
RF Exposure, multiple simultaneous transmitters	NA ¹

¹EUT only has a single transmitter or transmitters cannot operate simultaneously

5 RF EXPOSURE, SINGLE TRANSMITTER

Result:	PASS
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5.1 Limits

Reference: 47 CFR §1.1307(b)(3)(i)(A) 1 mW blanket exemption.

Device is exempt from routine RF exposure evaluation when the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

Reference: RSS-102 Issue 6 – Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands).

Section 6.3, Table 11: SAR evaluation – Exemptions limits for routine evaluation based on frequency and separation distance

Frequency	Exemptions limits				
	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm
≤300	45 mW	116 mW	139 mW	163 mW	189 mW
450	32 mW	71 mW	87 mW	104 mW	124 mW
835	21 mW	32 mW	41 mW	54 mW	72 mW
1900	6 mW	10 mW	18 mW	33 mW	57 mW
2450	3 mW	7 mW	16 mW	32 mW	56 mW
3500	2 mW	6 mW	15 mW	29 mW	50 mW
5800	1 mW	5 mW	13 mW	23 mW	32 mW

Frequency	Exemptions limits				
	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm
≤300	216 mW	246 mW	280 mW	319 mW	362 mW
450	147 mW	175 mW	208 mW	248 mW	296 mW
835	96 mW	129 mW	172 mW	228 mW	298 mW
1900	92 mW	138 mW	194 mW	257 mW	323 mW
2450	89 mW	128 mW	170 mW	209 mW	245 mW
3500	72 mW	94 mW	114 mW	134 mW	158 mW
5800	41 mW	54 mW	74 mW	102 mW	128 mW

For limb-worn devices where the 10 gram value applies, the exemption limits for routine evaluation in Table 1 are multiplied by a factor of 2.5.

5.2 Calculations

EIRP: $Power\ to\ antenna\ (dBm) + Antenna\ gain\ (dBi) = EIRP\ dBm$
Measured EIRP = -40.3 dBm (A4030-E)
Measured EIRP = -37.1 dBm (A4131-E)

Conversion dBm to W:

EIRP (A4030-E): $1\ mW * 10^{\left(\frac{EIRP_{dBm}}{10}\right)} = 0.000093\ mW$
EIRP (A4131-E): $1\ mW * 10^{\left(\frac{EIRP_{dBm}}{10}\right)} = 0.000195\ mW$

5.3 Results

Standard	Reference for limit	Value	Unit	Limit	Result
§1.1307 (A4030-E)	(b)(3)(i)(A)	0.000093	mW	1	PASS
RSS-102 (A4030-E)	RSS-102	0.000093	mW	112.5	PASS
§1.1307 (A4131-E)	(b)(3)(i)(A)	0.000195	mW	1	PASS
RSS-102 (A4131-E)	RSS-102	0.000195	mW	112.5	PASS