

# RF EXPOSURE ANALYSIS

#### **EQUIPMENT**

Type of equipment:

Wireless Communication Hub

Type / Model:

AH20/30

Manufacturer:

**ASSA ABLOY AB** 

By request of:

**ASSA ABLOY AB** 

Operating frequencies: 2405 – 2480 MHz

## REQUIREMENT

EN 62479:2010 CFR 47 §1.1310 RSS-102 issue 5 (2015)

## **CALCULATIONS**

Highest measured conducted output power is 5.4 dBm or 3.5 mW.

The internal antenna has a maximum antenna gain of 4 dBi the EIRP is 9.4 dBm or 8.7 mW.

The maximum duty cycle is 1% giving a time-averaged maximum EIRP of 0.09 mW.



#### **LIMITS & EVALUATIONS:**

Standard	Reference for limit	Limit	Unit	Values	Result
EN 62479	EN62479 <sup>1</sup>	20	mW	8.7	PASS
KDB 447498 D01	KDB 447498 D01 <sup>2</sup>	3.0	-	0.01	PASS
RSS-102 issue 5 (2015)	RSS-102 issue 5 (2015) <sup>3</sup>	3.94	mW	0.09	PASS

<sup>&</sup>lt;sup>1</sup>From Table A.1 for general public and head and trunk.

<sup>2</sup>Section 4.3.1 a): For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following: [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [ $\sqrt{f(GHz)}$ ] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR.

2480 MHz and 5 mm test separation used in calculation.

<sup>3</sup>Section 2.5.2 Table 1: SAR evaluation – Exemption limits for routine evaluation based on frequency and separation distance.

2480 MHz and 5 mm test separation used in calculation.

## **Summary:**

All requirements are fulfilled

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