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[1]	20	mW	8.7	PASS
KDB 447498 D01	KDB 447498 D01[2]	3.0	-	0.01	PASS
RSS-102 issue 5 (2015)	RSS-102 issue 5 (2015)[3]	3.94	mW	0.09	PASS

[1]From Table A.1 for general public and head and trunk.

[2]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)] · [√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.

[3]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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