Reference No. 1023620-2

STATEMENT ON EXPOSURE TO ELECTROMAGNETIC FIELDS

EQUIPMENT

Type of equipment:	Wireless Communication Hub
Type / Model:	AH20 and AH30
Manufacturer:	ASSA ABLOY AB
By request of:	ASSA ABLOY AB

STANDARD

47 CFR §1.1310 and §2.1093
RSS 102, Issue 4

CALCULATIONS

Calculations of power density are made according to equation (4) in OET Bulletin 65

Maximum peak output power at antenna input terminal (dBm):	*10.7*	*(Note 1)*
Maximum antenna gain (dBi):	*6*	*(Note 2)*
EIRP (dBm):	*16.7*	
EIRP (mW):	*46.774*	
Minimum separation distance (cm):	*20*	
Transmitting frequency range (MHz):	*2402 – 2480*	

Notes:

1 Value taken from test report 1023620-1 issued by Intertek Semko AB.
2 Value taken from test report 1023620-1 issued by Intertek Semko AB.

A worst case calculation of the Power Density (S) is as follows:

$$S = \frac{EIRP}{4 \times \pi \times r^2} = \frac{46.774}{4 \times \pi \times 20^2}$$

= 0.009 mW/ cm^2

The limit for General Population/Uncontrolled Exposure according to §1.1310 is a power density of 1.0 mW/cm^2.

The limit for General Population/Uncontrolled Exposure according to RSS-102, Issue 4 is a power density of 10 W/m^2 = 1.0 mW/cm^2

The requirements are fulfilled without further testing.

Intertek Semko AB, Radio& EMC

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