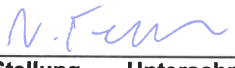
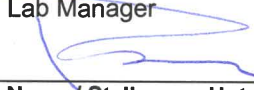


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Kunden Referenz-Nr.: - <i>Client Reference No.:</i>		Auftragsdatum 2018-12-27 <i>Order date:</i>			
Auftraggeber: Axis Communication AB <i>Client:</i> Emdalavägen 14 223 69 Lund Sweden		Kahsay Tsegay Kahsay.Tsegay@axis.com +46 46 272 1800			
Prüfgegenstand: Network Video Door Station <i>Test item:</i>					
Bezeichnung / Typ-Nr.: AXIS A8207-VE <i>Identification / Type No.:</i> FCC ID: PNB-AXISA8207-VE					
Auftrags-Inhalt: RF Exposure Evaluation <i>Order content:</i>					
Prüfgrundlage: FCC 47 CFR §1.1310 <i>Test specification:</i>					
Wareneingangsdatum: N/A <i>Date of receipt:</i>					
Prüfmuster-Nr.: N/A <i>Test sample No.:</i>					
Prüfzeitraum: N/A <i>Testing period:</i>					
Ort der Prüfung: Lund, Sweden <i>Place of testing:</i>					
Prüflaboratorium: TÜV Rheinland Sweden <i>Testing laboratory:</i>					
Prüfergebnis: See detail in report <i>Test results:</i>					
Geprüft von Niall Forrester <i>Tested by:</i> Technical Expert 2019-05-22 		Kontrolliert von Per Isacsson <i>Reviewed by:</i> Lab Manager 2019-05-22 			
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sontiges / <i>Other:</i>					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test or accreditation mark/logo</i>					

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Revisions Revisions			
Revision Revision	Datum Date	Anmerkung Remark	Verfasser Author
001	2019-05-22	First Release	Niall Forrester

Note: Latest revision report will replace all previous reports

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PRODUCT INFORMATION

1.1 Equipment under Test (EUT) description

Model name:	Axis A8207-VE Network Video Door Station
Manufacturer:	Axis Communication AB
Model number:	AXIS A8207-VE
Type Number:	PNB-AXISA8207-VE
Description:	Network Video Door Station

1.2 Wireless Technologies and Frequency Bands supported by the DUT

Technology	Band	Frequency Range (Tx)	Evaluation Performed
T-coil induction loop	Audio	≤4kHz	NO*
RFID	125 kHz	125 kHz	NO*
RFID	13.56 MHz	13.56 MHz	YES

*No limits defined for frequencies below 0.3 MHz

1.3 Coil Current, Voltage and E-Field Strength

Technology	Band	Antenna Type	Maximum Current (mA)	Maximum Voltage Applied (V)	E-Field Strength* dBμV/m @3m
T-coil induction loop	Audio	Coil	625	5	N/A
RFID	125 kHz	Coil	330	3.3	60
RFID	13.56 MHz	PCB Printed 5-turn Antenna	250	3.3	50

Maximum Current and Maximum Voltage Applied are based on details supplied by the device manufacturer.

Measured E-Field strength figures are worst cases taken from the graphs in report:
"60236958-002_Axis_A8207-VE_FCC Part 15.225_RFID_125 kHz_13_56_MHz"

Figures are rounded up to next multiple of 10 dBμV/m. These represent the field strength measured at 3m distance from the DUT.

EVALUATION

1.4 Summary

At 20cm, the device is compliant with the "General Population / Uncontrolled" requirements set out in FCC 47 CFR §1.1310 Table 1 (B) for all wireless technologies supported by the device where a limit is defined.

- T.coil induction loop: No limit defined
- RFID 125 kHz: No limit defined
- RFID 13.56 MHz: Device is compliant with limits at 20cm distance

1.5 Limits

Extract from 47 CFR § 1.1310 - Radiofrequency radiation exposure limits

Table 1B
Limits for Maximum Permissible Exposure (MPE)
(Limits for general Population / Uncontrolled Exposure)

Frequency Range (MHz)	Electric Field strength (V/m)	Magnetic Field strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3 - 1.34	614	1.63	*100	30
1.34 - 30	824/f	2-19/f	*180/f ²	30
30 - 300	27.5	0.073	0.2	30
300 - 1500	-	-	f/1500	30
1500 - 10000	-	-	1.0	30

Notes:

1. f = frequency in MHz
2. * = Plane-wave equivalent power density

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1.6 Detailed Calculations

Based on the assumption of a $1/r^3$ electric field roll-off with distance r , the maximum measured electric field strength at 3m can be used to calculate the maximum electric field strength at distance r from the DUT

$$E_r = E_{3m} + 20 \log \left[\left(\frac{3}{r} \right)^3 \right]$$

Where:

- r is the distance from the device in meters
- E_r is the field strength at distance r (in dB μ V/m)
- E_{3m} is the maximum field strength measured at 3m

The limit for E_r in this case, from the table above is: $(824 / 13.56) \text{ V/m} = 60.77 \text{ V/m}$ or 155.67 dB μ V/m

The E-field strength at 20cm from the device has been calculated below and compared to the limit:

Technology	Band	E_{3m} dB μ V/m	r (cm)	E_r dB μ V/m	E_r V/m	Limit V/m
RFID	13.56 MHz	50	20	120.57	1.07	60.77