

RF Exposure Assessment

Product	Reader and Communication Controller
Name and address of the applicant	ASSA ABLOY Global Solutions Norway AS P.O. Box 340, Anolittveien 1-3 N-1402 SKI - Norway
Name and address of the manufacturer	ASSA ABLOY Global Solutions Norway AS P.O. Box 340, Anolittveien 1-3 N-1402 SKI - Norway
Model	RCC 6470
Rating	Internal batteries (3x1.5V DC)
Trademark	VingCard ASSA ABLOY
Additional information	-
Evaluated according to	FCC Part 1.1307(b) RF Exposure Assessment FCC KDB 447498 D04 Interim General RF Exposure Guidance v01
Order number	PRJ0051915
Issue date	2024-10-31
Name and address of the testing laboratory	 <div> Nemko Scandinavia AS Instituttveien 6 2007 Kjeller, Norway www.nemko.com </div> <div> CAB Number: FCC: NO0001 ISED: NO0470 ISED No: 2040D-1 </div>
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Revision history

Revision	Date	Comment	Sign
A	2024-10-31	First Edition	JGE

GENERAL REMARKS

This report applies only to the samples tested. It is the manufacturer's responsibility to ensure the additional production units of this product are manufactured with identical electrical and mechanical components. The manufacturer is solely responsible for any modifications to the product that could result in non-compliance with the relevant regulations.

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Opinions expressed within this report regarding general assessments and qualifications for PASS or FAIL to the standards limits and requirements, are not part of the current accreditation. Neither are opinions expressed regarding model variants covered by the testing of this report.

1 Exposure Evaluation

1.1 EUT Technical Information

Product	Reader and Communication Controller
Manufacturer	ASSA ABLOY Global Solutions Norway AS
Model	RCC 6470
FCC ID	Y7V-RCC6470C1
Hardware identity and/or version	RCC6470C1
Software identity and/or version	Ver.1.4
Frequency Range	Zigbee: 2405-2480 MHz BLE: 2402-2480 MHz
Operating Modes	Zigbee Bluetooth Low Energy
Type of Modulation	Zigbee: Offset-QPSK BLE: GFSK
User Frequency Adjustment	None
Emission Class	Mobile or Fixed Device
Type of Power Supply	External battery 4.5V DC (3x1.5 V) during radiated tests Regulated power supply 4.5 V DC during conducted tests
Antenna Type	Internal
Number of Antennas	1
Prediction Distance (declared)	20 cm

1.2 Evaluation Summary

The EUT has been evaluated to FCC 1.1307(b) and has been found to be exempt from SAR Evaluation.

FCC 1.1307(b)(3)(i)(B)				
KDB 447498 D04				
Determination of Exemption for Single RF Sources	BLE	Zigbee		
Average Output Power, Conducted	4.2	5.4	mW	
Average Output Power, Radiated	2.3	2.0	mW	
Separation Distance d (cm)(valid for d ≤40 cm)	20	20	cm	
Frequency f (GHz) (valid for f ≥300MHz and f ≤6 GHz)	2.4	2.4	GHz	
ERP @20cm (mW)	3060	3060	mW	
value used in Threshold calculation	1.90	1.90		
Threshold value at Separation distance d (mW)	3060	3060	mW	
Verdict:	EXEMPTED	EXEMPTED		

BLE and Zigbee are never transmitting simultaneously.

The above calculation is based on the formulas from FCC Part 1.1307(b)(3)(B).

Radiated Output Power values are from Nemko Test Reports REP025649 and REP025650.

The evaluation is valid at the declared separation distance of 20cm.

