

Bundesnetzagentur

BNetzA-CAB-02/21-102



SAR Test exclusion documentation according to FCC KDB 447498, RSS-102

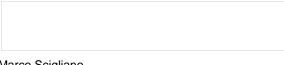
Report identification number: 1-1697/20-01-07 Exclusion (FCC_ISED)

contains the module with the following certification numbers				
FCC ID	2AAJCBR21			
ISED number	24305-BR21			
HVIN (Hardware Version Identification Number)	BR21			
PMN (Product Marketing Name)	MQB37W			
FVIN (Firmware Version Identification Number)	-/-			
HMN (Host Marketing Name)	-/-			

This report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Document authorised:

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Test report no.: 1-1697/20-01-07



EUT technologies:

Technologies:	Max. avg. EIRP
433 MHz Proprietary	-14.43 dBm (= 36.1µW)

NOTE: Test results taken from CTC Advanced GmbH report 1-1697/20-01-03 Max allowed field strength of 80.8 dB μ V/m@3m EIRP used for calculation as worst case.

SAR test exclusion according to KDB447498 (General RF Exposure Guidance v06)

Equation from Chapter 4.3.1: Standalone SAR test exclusion considerations page 11 and ff.

(1) Standalone SAR test exclusion for 100 MHz to 6 GHz at test separation distances ≤ 50mm

(Threshold_{1-g;10-g}) × $d_{seperation} / f^{0.5}$

where

Threshold1-g;10-g is 3 for 1-g; 7.5 for 10-gdseperationis the min. test separation distance; 5mm is used if the distance is lessfis the RF channel transmit frequency

The table below gives the calculated maximal power that could be used for source based time averaged conducted or radiated power, adjusted for tune up tolerance. If this is at or below the calculated value the DUT is exempted from SAR evaluation.

frequency	d _{separation}	Threshold _{1-g}	Powerlimit	P _{max-declared}		Exclusion
[MHz]	[mm]		[mW]	[dBm]	[mW]	Exclusion
433.00	5	3	22.80	-14.43	0.04	yes

SAR test exclusion according to RSS-102 Issue 5 Section 2.5.1/Table 1

The table below gives the calculated maximal power that could be used for source based time averaged conducted or radiated power, adjusted for tune up tolerance. If this is at or below the calculated value the DUT is exempted from SAR evaluation.

frequency	d separation	tissue volume	Powerlimit	P _{max-declared}		Exclusion
[MHz]	[mm]		[mW]	[dBm]	[mW]	Exclusion
433.00	5	1 g	52.00	-14.43	0.04	yes

The limits above are defined for body worn application and therefore cover all use cases.