

 Prüfbericht - Nr.:
 50060522 001
 Seite 1 von 2

 Test Report No.
 Page 1 of 2

## **Appendix IV- RF Exposure statement**

Evaluate standard : FCC KDB # 447498 D01 V06

RSS-102 Issue 5

The maximum measured transmitter power is the following:

Frequency	Maximum Conducted (average)	Maximum Conducted (average)	
[GHz]	Output Power	Output Power	
	[dBm]	[mW]	
2.402	-3.36	0.46131757	

## **Evaluation for FCC**

According to FCC KDB # 447498 D01 V06, Clause 4.3.1

(a) For 100MHz to 6 GHz and test separation distances  $\leq$  50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

 $\frac{\text{(max. power of channel, including tune - up tolerance, mW)}}{\text{(GHz)}} \times \sqrt{f(\text{GHz})}$ 

(min. test separation distance, mm)

 $\leq$  3.0, for 1-g SAR, and  $\leq$  7.5, for 10-g extremity SAR

So, the max allowed power for 1-g SAR with distance 5mm at 2402MHz is 9.68 mW

And the max allowed power for 10-g extremity SAR with distance 5mm at 2402MHz is 24.20mW

The EUT is well below the SAR test exclusion thresholds.

Produkte Products

 Prüfbericht - Nr.:
 50060522 001

 Test Report No.
 Seite 2 von 2

 Page 2 of 2

## **Evaluation for IC**

 ${\bf Table~1:~SAR~evaluation-Exemption~limits~for~routine~evaluation~based} \\ {\bf on~frequency~and~separation~distance}^{4,5}$ 

Frequency	Exemption Limits (mW)					
(MHz)	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm	
≤300	71 mW	101 mW	132 mW	162 mW	193 mW	
450	52 mW	70 mW	88 mW	106 mW	123 mW	
835	17 mW	30 mW	42 mW	55 mW	67 mW	
1900	7  mW	10 mW	18 mW	34 mW	60 mW	
2450	4 mW	7 mW	15 mW	30 mW	52 mW	
3500	2 mW	6 mW	16 mW	32 mW	55 mW	
5800	1 mW	6 mW	15 mW	27 mW	41 mW	

Frequency	Exemption Limits (mW)						
(MHz)	At separation	At separation	At separation	At separation	At separation		
	distance of	distance of	distance of	distance of	distance of		
	30 mm	35 mm	40 mm	45 mm	≥50 mm		
≤300	223 mW	254 mW	284 mW	315 mW	345 mW		
450	141 mW	159 mW	177 mW	195 mW	213 mW		
835	80 mW	92 mW	105 mW	117 mW	130 mW		
1900	99 mW	153 mW	225 mW	316 mW	431 mW		
2450	83 mW	123 mW	173 mW	235 mW	309 mW		
3500	86 mW	124 mW	170 mW	225 mW	290 mW		
5800	56 mW	$71~\mathrm{mW}$	85 mW	97 mW	106 mW		

RSS-102 section 2.5.1 Exemption Limits for Routine Evaluation, Table 1 shows the SAR evaluation for a device with a separation distance of 5mm at 2450MHz is 4mW.

The EUT is well below the SAR test exclusion thresholds.

## Conclusion

SAR data is not required for either FCC or IC.