

RF Exposure Evaluation

E.U.T. : 2 way transmitter

Model Number : 1BER15SP

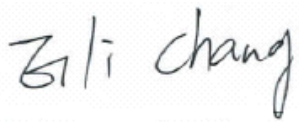
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Approved: 

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1 RF Exposure Evaluation

Frequency Range (MHz)	Continuous transmit power (dBm)	Averaging factor (dB)	Transmit power (dBm)	Tune-up power tolerance (dB)	Total Maximum power	
					(dBm)	(mW)
909.6	19.28	-15.05	4.23	(±)2	6.23	4.19759
913.8	19.06	-15.05	4.01	(±)2	6.01	3.99025
918.0	18.91	-15.05	3.86	(±)2	5.86	3.85478

Averaging factor in dB = $20\log$ (duty cycle)

The duration of one cycle = 198.3ms

Duty Cycle = Ton/duration = 35.04 ms / 198.3ms

Therefore, the averaging factor is found by $20\log 0.176702 = -15.05$ dB

Portable Device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio

frequency energy level in excess of the Commission's guidelines.

According to KDB 447498_D01_V06 4.3.1(1)

SAR exclusion thresholds by:

$[\text{max. power of channel, including tune-up tolerance, mW}] / (\text{min, test separation distances, mm}) * [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR

and ≤ 7.5 for 10-g extremity SAR.

Calculation

$$(4.19759/5) * (\sqrt{0.9096}) = 0.80067 \leq 3$$

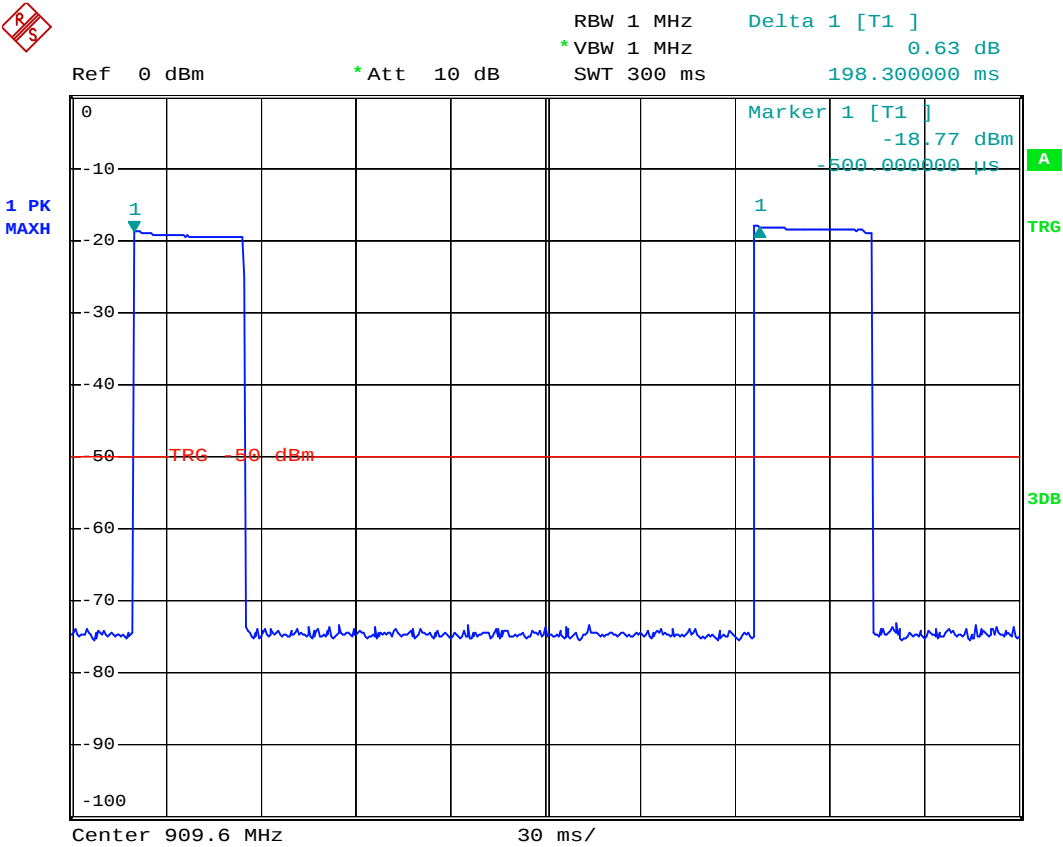
Conclusion

No SAR is required.

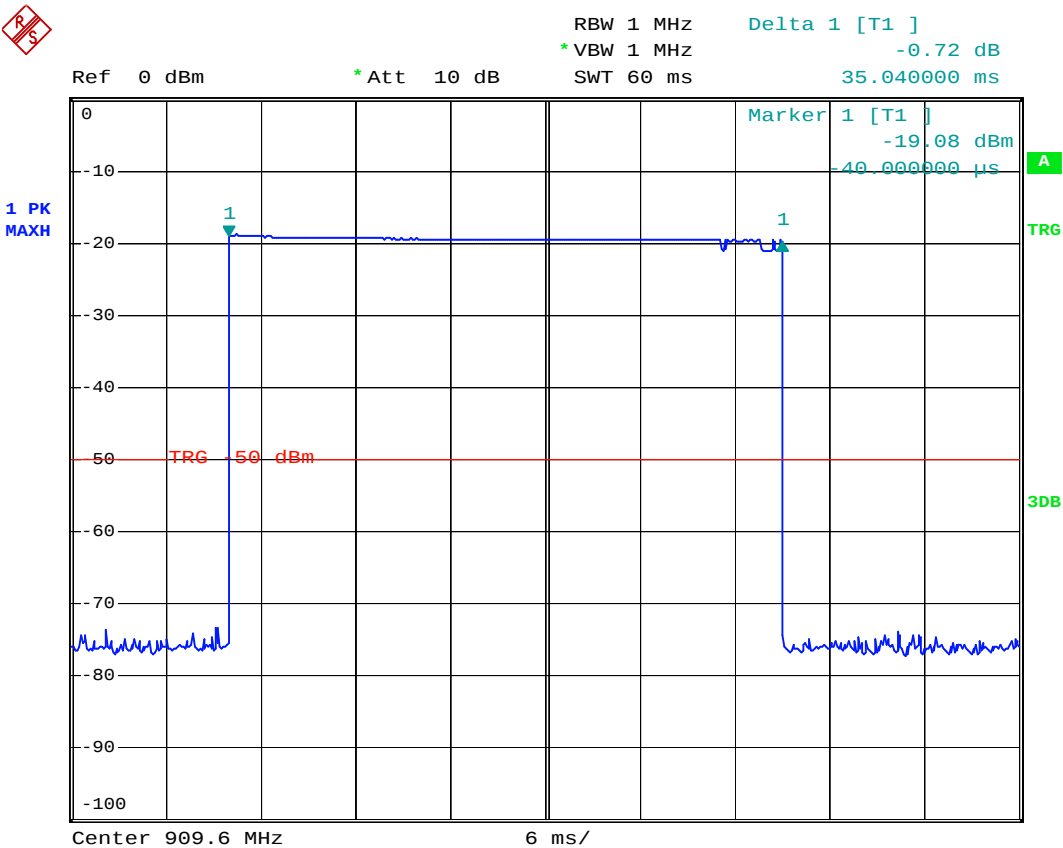
SIMULTANEOUS TRANSMISSION EVALUATION

N/A

Duty Cycle



Duration



Time Slot