

RF Exposure Requirements

Product Description: LM540 Class 1 Bluetooth USB Adapter

Model No.: 540-0542

FCC ID: VVXLM540-1

According to the KDB 447498 D01 General RF Exposure, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

Conducted Output Power (mW)	Antenna Gain (dBi)	EIRP Output Power (mW)	Source-based time-averaged maximum EIRP Output Power (mW)	Minimum Distance (mm)	SAR Test Exclusion Thresholds(mW)
55.59	2	88.10	4.72	5	10

Remark: Duty factor is 5.36%, refer to follow plots for more details.

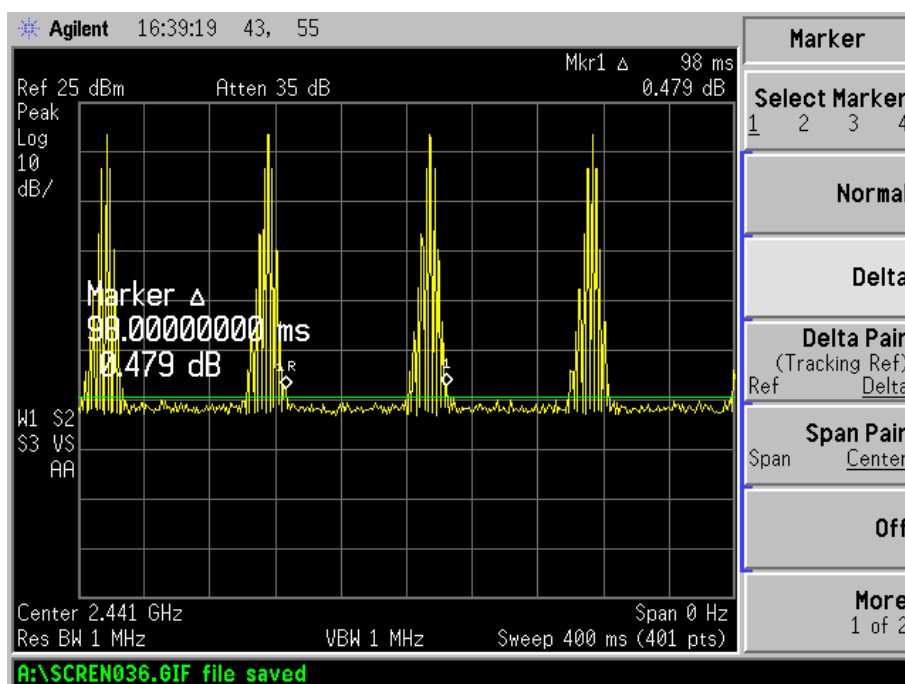
Calculation formula: Source-based time-averaged maximum EIRP Output Power (mW) = maximum EIRP Output Power (mW)*Duty factor=88.10 mW * 5.36%=4.72 mW < 10mW

Duty cycle=(Ton/T)*100%=5.25/98*100%=5.36%

So the transmitter complies with the RF exposure requirements and the SAR is not required.

Plots:

a period of transmitting(T)=98ms



a slot of pulse=0.525ms,total pulse=10, $T_{on}=(0.525*10)=5.25ms$

