

SIL Radar Technology Inc.
6F-2&3, No.12, Fuxing 4th Rd., Qianzhen Dist., Kaohsiung City
80661, Taiwan

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Applicant's declaration concerning RF Radiation Exposure

We hereby indicate that the product
Product description: Non-contact physiological signal detector
Model No: SSR2D1P14AAPBXXC

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The integral antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter within the host device.

A safety statement concerning minimum separation distances from enclosure of the
Product: Non-contact physiological signal detector
will be integrated in the user's manual to provide end-users with transmitter operating
conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6M21902-18819-C-1
and the accompanying calculations.

Company: SIL Radar Technology Inc.
Address: 6F-2, No.12, Fuxing 4th Rd., Qianzhen Dist., Kaohsiung City 80661, Taiwan

Date: June 12, 2019

Signature 



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21902-18819-C-1

FCC ID: 2ATNJSSR2D1PPC

3.2 Equivalent isotropic radiated power

Because using an permanent antenna there are no deviations from the radiated test results according 3.1.

3.3 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{P G}{4 \pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain

Item	Unit	Value	Remarks
P	mW	67.2977	Peak value
D	dB		
AG	dBi	14	
G		25.1189	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.3363	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0

3.4 Out of Band Radiated Emissions

FCC Rule: 15.245 (b)(3), 15.35(b)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

For frequency above 1000 MHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.