

# **1mW Test Exemption justification according to KDB 447498-D04 Interim General RF Exposure Guidance v01**

Model Name: alfapump  
Product description: alfapump system  
Manufacturer: Sequana Medical NV  
Kortrijksesteenweg 1112  
9051 SINT DENIJS WESTREM  
BELGIUM

FCC ID: 2DBJN01473

## **Description of EuT:**

Fully implantable, battery operated, medical device. It is programmable via the Smart Charger through wireless communication (TX frequency 907 MHz). The alfapump is designed to slowly and continuously transport ascites from the peritoneal cavity to the bladder, allowing the ascites to be eliminated from the body through normal urination. The ascetic fluid is transported according to a programmed schedule determined by the physician.

## **Determination of TX power**

Test report 80181315-00 Rev\_0 issued by CSA Group Bayern GmbH lists under item 5.1.5 a measured maximum field strength of 84,7dB $\mu$ V/m at 3m test distance with a transmission frequency of 907 MHz. The measurement was performed according to FCC Part 15.249(a).

According to ANSI C63.10-2020 Annex G.2 the field strength can be converted by following formula to EIRP:

$$\text{EIRP} = (E \times d)^2 / 30$$

Where

E is the field strength in V/m

D is the measurement in m

The calculation with the values taken from the test report 80181315-00 Rev\_0

$$\text{EIRP} = (0,018\text{V/m} \times 3\text{m})^2 / 30$$

$$\text{EIRP} = 0,0972 \text{ mW}$$

#### Conclusion

The calculated EIRP of approximately 0,1mW is below the 1mW exemption limit according to KDB 447498-D04 v01 item 2.1.2 resulting in test exemption for the above named product.