

RF Exposure Evaluation Report

Product Name : SEDA Care Management Mattress System

Model No. : SP-600

FCC ID : 2AV2GSP600

Applicant : SEDA CHEMICAL PRODUCTS CO., LTD.

Address : 2F., No. 56, Bade Rd., Yingge Dist., New Taipei City 23942,
Taiwan (R.O.C.)

Date of Receipt : Feb. 10, 2020

Date of Declaration : Mar. 16, 2020

Report No. : 2020125R-E3082100014

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Mar. 16, 2020
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Applicant	SEDA CHEMICAL PRODUCTS CO., LTD.	
Address	2F., No. 56, Bade Rd., Yingge Dist., New Taipei City 23942, Taiwan (R.O.C.)	
Manufacturer	SEDA CHEMICAL PRODUCTS CO., LTD.	
Model No.	SP-600	
FCC ID.	2AV2GSP600	
Trade Name	SEDA	
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance \geq 20 cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By : Anita Chou
 (Senior Engineering Adm. Specialist / Anita Chou)

Tested By : wen Lee
 (Senior Engineer / Wen Lee)

Approved By : Vincent Lin
 (Director / Vincent Lin)

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	SEDA Care Management Mattress System
Trade Name	SEDA
Model No.	SP-600
FCC ID.	2AV2GSP600
Frequency Range	2402-2480MHz
Channel Number	40CH
Type of Modulation	GFSK(1Mbps)
Antenna Type	Chip Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	YAGEO	ANT8010LL04R2400A	Chip Antenna	5.46 dBi for 2.4 GHz

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 (Power(mW)/separation (mm)*sqrt(f(GHz)) \leq 3.0), SAR is required as shown in the table below where calculated values are greater than 3.0:

- 1.) Operation frequency = 2450MHz and antenna separation distance = 5mm,
SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum output power Peak Gain: 5.46 dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (\leq 3.0 SAR is not required)
	Power (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
2402 – 2480	1.33	6.79	4.78	10	1.504

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 2020125R-RFUSP03V00-A from the DEKRA.