

Report No.: SEWM2309000365RG02

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TEST REPORT

Application No.:SEWM2309000365RGApplicant:Gen2Wave USA LLC

Address of Applicant: 980 N. Federal Hwy, Suite 110, Boca Raton, Florida, 33432 United States

Manufacturer: Gen2wave

Address of Manufacturer: 7th fl., Point town B/D, Gumi-ro 11, Bundang-gu, Seongnam-si, Gyeonggi-

do, #13637, Rep of Korea

EUT Description: Rugged mobile computer

Model No.: Prime RS01
FCC ID: 2BCW4-RS01

Standards: FCC 47 CFR Part 1.1307

FCC 47 CFR Part 1.1310 FCC KDB 447498 D01 v06

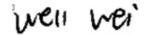
 Date of Receipt:
 2024/01/03

 Date of Issue:
 2024/01/08

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Well Wei Wireless Laboratory Manager



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1 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2024/01/08		Original		

Prepared By	(Nick Hu) / Test Engineer
Checked By	(Stone Gu) / Reviewer



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2 **General Information**

2.1 Client Information

Applicant:	Gen2Wave USA LLC	
Address of Applicant:	980 N. Federal Hwy, Suite 110, Boca Raton, Florida, 33432 United States	
Manufacturer:	Gen2wave	
Address of Manufacturer:	7th fl., Point town B/D, Gumi-ro 11, Bundang-gu, Seongnam-si, Gyeonggi-do, #13637, Rep of Korea	

2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327





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2.3 General Description of EUT

EUT Description:	Rugged mobile computer		
Model No.:	Prime RS01		
Hardware Version:	1.02		
Software Version:	MT918_EQ000_2774.3A84745.A0F816C.84C1BFC_231106_100_V01_T01		
	RF Conducted	SN: AWM70886	
IMEI/SN:	RSE	IMEI1: 860284060012401	
		IMEI2: 860284060012464	
Operation Frequency:	13.56MHz		
Modulation Type:	ASK		
NFC Type:	Type A		
Domark:			

Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be evaluated as below.

For test separation distances \leq 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

The power threshold at 50 mm/100 MHz in 4.3.1 b) is multiplied by $[1 + \log(100/\text{f}(\text{MHz}))]$ where f is 13.56 MHz The power threshold in 4.3.1 b) is [Power allowed at numeric threshold for 50 mm in 4.3.1 a)] + [(test separation distance – 50 mm)·(f(MHz)/150)] mW, for 100 MHz to 1500 MHz where test separation distance is 50 mm, frequency is 100 MHz.

Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/\sqrt{f(GHz)}]$ (test separation distance)

Hence, SAR test exclusion threshold is calculated in reverse sequence:

- a): $[3/\sqrt{0.1}]\cdot 50 = 474.3416$ mW
- b): 474.3416 + (50-50)·(100/150) = 474.3416mW
- c): 474.3416·[1+log(100/13.56)] = 885.9470mW
- d): 885.9470 · 0.5 = 442.974mW

So the SAR test exclusion power threshold for NFC(13.56MHz) is 442.974mW(equal to 26.464dBm).



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3.1.2 Test Result

Also, the maximum power of NFC is -50.31dBm (converted from 44.89 dBuV/m at 3m) and it is far below the exclusion threshold (26.464dBm), so SAR test for NFC can be excluded.

---End of Report---



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