RF Exposure Report

Report No.:	SABDBO-WTW-P21100529
FCC ID:	G7H-SPRFTR002
Test Model:	PARARFTRDR002
Received Date:	2021/10/16
Test Date:	2022/4/7 ~ 2022/4/13
Issued Date:	2022/5/4
Applicant:	Semnox Solutions Private Limited
Address:	No.4-1-145, 3rd Floor, Punja Building Annexe, M G Road, Lalbagh, Mangalore, India - 575003
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
FCC Registration / Designation Number:	198487 / TW2021

Testing Laboratory
2021

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SABDBO-WTW-P21100529	Original release.	2022/5/4

1 Certificate of Conformity

Product:	Parafait RF Tag Reader 2
Brand:	Parafait
Test Model:	PARARFTRDR002
Sample Status:	Engineering sample
Applicant:	Semnox Solutions Private Limited
Test Date:	2022/4/7 ~ 2022/4/13
Standards:	FCC Part 2 (Section 2.1091)
References Test Guidance:	KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Jessica Cheng , **Date:** 2022/5/4

Jessica Cheng / Senior Specialist

Approved by : Jeremy Lin , **Date:** 2022/5/4

Jeremy Lin / Project Engineer

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (EIRP) (dBm)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
13.56	-33.13	20	0.0000000967676	0.978

NOTE:
1. Max Power: 22.1dBuV/m = -33.13dBm
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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