

RF Exposure Evaluation Report

Product Name : BIKE POWER TRAINER

Model No. : NOZA ONE

FCC ID : 2A2P5NOZAONE

Applicant : Acer Gadget Inc.

Address : 6th Floor, No. 68 Ruiguang Road, Neihu District, Taipei City

Date of Receipt : Jul. 13, 2021

Date of Declaration : Aug. 06, 2021

Report No. : 2170524R-RFUSMPEV02

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.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Aug. 06, 2021

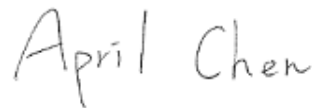
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Product Name	BIKE POWER TRAINER	
Applicant	Acer Gadget Inc.	
Address	6th Floor, No. 68 Ruiguang Road, Neihu District, Taipei City	
Manufacturer	Acer Gadget Inc.	
Model No.	NOZA ONE	
FCC ID.	2A2P5NOZAONE	
Trade Name	XPLOVA	
Applicable Standard	KDB 447498 D01 v06	☒ Minimum test separation distance ≥ 20 cm ☐ For low power devices
Test Result	Complied	

Documented By

:



(Senior Project Specialist / April Chen)

Tested By

:



(Senior Engineer / Wen Lee)

Approved By

:



(Manager / Tim Sung)

Revision History

Report No.	Version	Description	Issued Date
2170524R-RFUSMPEV02	V1.0	Initial issue of report.	Aug. 06, 2021

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	BIKE POWER TRAINER
Trade Name	XPLOVA
Model No.	NOZA ONE
FCC ID.	2A2P5NOZAONE
Frequency Range	Bluetooth V5.0: 2402 – 2480MHz ANT+: 2457MHz
Channel Separation	Bluetooth V5.0: 2MHz
Channel Number	Bluetooth V5.0: 40CH ANT+: 1CH
Type of Modulation	Bluetooth V5.0: GFSK (1Mbps) ANT+: GFSK
Channel Control	Auto
Antenna Type	Coil Antenna
Antenna Gain	Refer to the table “Antenna List”

1.2. Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Acer	NOZA ONE	Coil Antenna	4.3dBi for 2.4GHz

2. RF Exposure Evaluation

2.1. Standard Applicable

According to KDB 447498 D01 (7.1), A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits.

2.2. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

2.3. Test Result of RF Exposure Evaluation

Product : BIKE POWER TRAINER
Test Item : RF Exposure Evaluation

2.4G Peak Gain : 4.3dBi

Band	Frequency (MHz)	Conducted maximum Peak Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
BLE	2440	5.15	3.273	0.0018	1	Pass

Note: The conducted output power is refer to original report No.: 2170524R-RFUSBLEV01 from the DEKRA.

2.4G Peak Gain : 4.3dBi

Band	Frequency (MHz)	Conducted maximum Peak Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
ANT+	2457	5.33	3.412	0.0018	1	Pass

Note: The conducted output power is refer to original report No.: 2170524R-RFUSOTHV13 from the DEKRA.