



FCC RF EXPOSURE REPORT

For

Personal Computer

MODEL NUMBER: Tiburn NCC-1701-A

FCC ID: 2AR77TIBURNNCC1701A

REPORT NUMBER:4788636465-12

ISSUE DATE: December 21, 2018

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	12/21/2018	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Tiburn Technology Co., Ltd.
Address: 606, 6 / f, Building 10, No. 44, Beisanhuan middle road, Haidian district, Beijing

Manufacturer Information

Company Name: Tiburn Technology Co., Ltd.
Address: 606, 6 / f, Building 10, No. 44, Beisanhuan middle road, Haidian district, Beijing

EUT Description

EUT Name: Personal Computer
Model: Tiburn NCC-1701-A
Brand Name: Tiburn
Series Model: Tiburn NCC-1701-A*, 1000*
(Where * maybe any alphanumeric character, symbol or blank of 0~7 digits, for marketing purpose.)
Model Difference: All the same except for the model name.
Sample Received Date: December 2, 2018
Sample ID: 12467549
Sample Status: Normal
Date of Tested: December 10, 2018 ~ December 20, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	PASS
KDB-447498 D01 V06	PASS

Tested By:

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Shawn Wen
Laboratory Leader



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320. VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2 : For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OATS.



4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
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/150	30
1500-100,000	--	--	1.0	30
Note 1: f = frequency in MHz, * means Plane-wave equivalent power density				
Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.				
Note 3: The limit value 1.0mW/cm ² is available for this EUT.				

MPE CALCULATION METHOD

$$S = PG / (4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

BLE Mode					
Frequency	Output Power	Output Power	Power Density	Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	--
2402~2480	1.0	1.26	0.0004	1.0	Complies

9560NGW BT Mode					
Frequency	Output Power	Output Power	Power Density	Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	--
2402~2480	12	15.85	0.006	1.0	Complies

9560NGW 2.4G WiFi Mode					
Frequency	Output Power	Output Power	Power Density	Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	--
2412~2472	30	1000	0.354	1.0	Complies

9560NGW 5G WiFi Mode					
Frequency	Output Power	Output Power	Power Density	Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	--
5150~5825	30	316.23	0.096	1.0	Complies

Note: 1. Antenna Gain=2.10dBi (Numeric 1.62) for BT; Antenna Gain=2.5dBi (Numeric 1.78) for 9560NGW 2.4G, Antenna Gain=1.85dBi (Numeric 1.1.53) for 9560NGW 5.8G, $\pi=3.141$.

2. The BLE power comes from turn up power which declared by customer. The power of the 9560NGW module comes from the original test report.

3. The minimum separation distance of the device is greater than 20 cm.

4. All of transmitter function can Tx simultaneously for the EUT, so the combined Power Density is $0.004+0.006+0.354+0.096=0.46\text{mW/cm}^2$ less than 1.0mW/cm^2 .

5. Calculate by WORST-CASE mode.



END OF REPORT