中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

RF EXPOSURE
EVALUATION REPORT

Applicant: **Taxi Butler**

Address: Keizersgracht 169, Amsterdam, Netherlands 1016 DP

FCC ID: **2AQJV-PRO**

Product Name: **TAXIBUTLER**

Standard(s): **47 CFR §1.1307**

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **CR230850073-00B**

Date Of Issue: **2023/9/22**

Reviewed By: **Calvin Chen**

Title: RF Engineer

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230850073-00B	Original Report	2023/9/22

1. RF EXPOSURE EVALUATION

1.1 Applicable Standard

According to §1.1307(b)(3)(ii)(B)

Simultaneous Transmission with both SAR-based and MPE-Based Test Exemptions

This case is described in detail in § 1.1307(b)(3)(ii)(B) and covers the situations where both SAR-based and MPE-based exemption may be considered for test exemption in fixed, mobile, or portable device exposure conditions. For these cases, a device with multiple RF sources transmitting simultaneously will be considered an RF exempt device if the condition of Formula (1) is satisfied.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

$$\sum_{i=1}^{a}\frac{P_i}{P_{th,i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{th,j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k}\leq 1 \qquad (1)$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for P_{th}, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source *i* at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$ = the exemption threshold power (P_{th}) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source *i*.

ERP_j = the ERP of fixed, mobile, or portable RF source *j*.

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source *j*, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source *k* either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure\ Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source *k*, as applicable from § 1.1310 of this chapter.

1.2 EUT Information▲:

Operation Modes	Operation Frequency (MHz)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	Max Gain Allowed for Module (dBi)
BDR/EDR	2402-2480	11.4	2.0	2.0
BLE	2402-2480	10	2.0	2.0
2.4G WLAN	2412-2462	15.36	2.0	2.0
WCDMA B2	1850-1910	24	4.5	9.01
WCDMA B5	824-849	24	1.1	10.41
LTE B2	1850-1910	24	4.5	9.01
LTE B4	1710-1755	24	4.5	6.00
LTE B5	824-849	24	1.1	10.41
LTE B17	704-716	24	1.1	9.74

1.3 Measurement Result

Radio	Frequency (MHz)	λ /2 Π (mm)	Distance (mm)	Exemption ERP (mW)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP	
							dBm	mW
BDR/EDR	2402-2480	19.88	200	768	11.4	2.0	11.25	13.34
BLE	2402-2480	19.88	200	768	10	2.0	9.85	9.66
2.4G WLAN	2412-2462	19.80	200	768	15.36	2.0	15.21	33.19
WCDMA B2	1850-1910	25.81	200	768	24	4.5	26.35	431.52
WCDMA B5	824-849	57.94	200	422	24	1.1	22.95	197.24
LTE B2	1850-1910	25.81	200	768	24	4.5	26.35	431.52
LTE B4	1710-1755	27.92	200	768	24	4.5	26.35	431.52
LTE B5	824-849	57.94	200	422	24	1.1	22.95	197.24
LTE B17	704-716	67.82	200	360	24	1.1	22.95	197.24
Note: The devices contain certified WWAN Module, FCC ID: N7NHL7688, Date of Grant: 08/26/2016. BT/Wi-Fi Module FCC ID: TFB-1003, Date of Grant: 05/27/2016.								

Note:
The Conducted output power comes from module report.

The WWAN and WiFi or Bluetooth can transmit simultaneously.

$$\sum_{i=1}^{a}\frac{P_i}{P_{\mathrm{th},i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{\mathrm{th},j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k}$$

$=P_{WWAN} / P_{th} + P_{WiFi} / P_{th}$

=431.52/768 + 33.19/768

=0.606

< 1.0

Result: The device meet FCC MPE at 20 cm distance.

===== END OF REPORT =====