



RF EXPOSURE EVALUATION REPORT

Applicant: MAYTON

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FCC ID: 2BAG8-MAYTONAP3

Product Name: AutoPro Dual

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: CR230740691-00G

Date Of Issue: 2023/9/14

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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	CR230740691-00G	Original Report	2023/9/14

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Type:	Mayton AutoPro Dual
EUT Model:	MAYTON-AP3
Multiple Models:	MAYTONAP3.5
Rated Input Voltage:	DC 5V from USB
Serial Number:	28K7-1
EUT Received Date:	2023/7/19
EUT Received Status:	Good

Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.

2. RF EXPOSURE EVALUATION

2.1 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.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

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

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 $\lambda/2\pi$ 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](#).

2.2 Measurement Result

Radio	Frequency (MHz)	Distance (mm)	P _{th} (mW)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	The Greater of Conducted Power or ERP	
						dBm	mW
BDR/EDR	2402-2480	200	3060	5	-1.68	5	3.16
BLE	2402-2480	200	3060	1	-1.68	1	1.26
2.4G WLAN	2412-2462	200	3060	22	-0.85	22	158.49
5.2G WLAN	5180-5230	200	3060	14	1.85	14	25.12
5.3G WLAN	5260-5320	200	3060	14	1.85	14	25.12
5.6G WLAN	5500-5720	200	3060	14	1.85	14	25.12
5.8G WLAN	5745-5825	200	3060	15	1.85	15	31.62
WCDMA B2	1850-1910	200	3060	25	1.31	25	316.23
WCDMA B4	1710-1755	200	3060	25	-0.42	25	316.23
WCDMA B5	824-849	200	1681	25.5	-2.89	25.5	354.81
LTE B2	1850-1910	200	3060	24.5	1.31	24.5	281.84
LTE B4	1710-1755	200	3060	23	-0.42	23	199.53
LTE B5	824-849	200	1681	25.5	-2.89	25.5	354.81
LTE B17	704-716	200	1436	26.5	-1.36	26.5	446.68
LTE B25	1850-1915	200	3060	24	1.31	24	251.19
LTE B41	2496-2690	200	3060	20.5	-0.95	20.5	112.20
LTE B66	1710-1780	200	3060	23.5	-0.42	24	251.19
LTE B71	663-698	200	1353	26.5	-1.38	26.5	446.68

Note:

The WWAN, WiFi and Bluetooth can transmit simultaneously.

$$\begin{aligned}
 & \sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \\
 &= P_{WWAN} / P_{th} + P_{WiFi} / P_{th} + P_{Bluetooth} / P_{th} \\
 &= 446.68/1353 + 158.49/3060 + 3.16/3060 \\
 &= 0.383 \\
 &< 1.0
 \end{aligned}$$

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

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