

FCC 47 CFR § 1.1307
FCC 47 CFR § 1.1310
FCC 47 CFR § 2.1091

RF EXPOSURE EVALUATION REPORT

For
XAG APC 4 AutoPilot Console Mainframe

MODEL NUMBER: M9HCM2.5CH

REPORT NUMBER: 03684300-1-RF-3

ISSUE DATE: August 7, 2026

FCC ID: 2A46G-M9HCM25CH

Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	August 7, 2026	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Guangzhou Xaircraft Technology CO.,LTD
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China

Manufacturer Information

Company Name: Guangzhou Xaircraft Technology CO.,LTD
Address: Building 1, No. 9 Xinrui Road, Huangpu District Guangzhou,P.R.
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EUT Information

EUT Name: XAG APC 4 AutoPilot Console Mainframe
Model: M9HCM2.5CH
Brand: XAG
Sample Received Date: June 5, 2026
Sample Status: Normal
Sample ID: 9835980
Date of Tested: June 6, 2026 to August 6, 2026

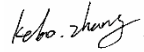
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
447498 D04 Interim General RF Exposure Guidance v01	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 1 Subpart I, section 1.1307 and KDB 447498 D04 Interim General RF Exposure Guidance v01.

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 ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202) 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 E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202
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Note:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

4. EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF EUT

EUT Name	XAG APC 4 AutoPilot Console Mainframe
Model	M9HCM2.5CH
Normal Test Voltage:	DC 12-24 V

5. REQUIREMENT

LIMIT AND CALCULATION METHOD

According to 447498 D04 Interim General RF Exposure Guidance v01:

2.1.2 1-mW Test Exemption

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

2.1.3 SAR-Based Exemption

A more comprehensive exemption, considering a variable power threshold that depends on both the *separation distance* and power, is provided in § 1.1307(b)(3)(i)(B). This exemption is applicable to the frequency range between 300 MHz and 6 GHz, with *test separation distances* between 0.5 cm and 40 cm, and for all RF sources in fixed, mobile, and portable device exposure conditions.

Accordingly, a RF source is considered an *RF exempt device* if its available maximum time-averaged (matched conducted) power or its effective radiated power (ERP), whichever is greater, are below a specified threshold. This exemption threshold was derived based on general population 1-g SAR requirements and is detailed in Appendix C.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

2.1.4 MPE-Based Exemption

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.¹⁰ For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

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	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

Threshold ERP(W)= $19.2R^2$

R(m): the minimum separation distance from the body of a nearby person

STAND ALONE E-FIELD POWER DENSITY CALCULATIONS RESULTS

Operating Mode	Max. Tune-up power (dBm)	Max. Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit Threshold-Option B (2.1.3) (mW)	Ratio
GSM850	25.81	2.29	28.10	25.95	49.19	1680.96	0.0293
GSM1900	22.81	1.59	24.40	22.25	20.99	3060	0.0069
WCDMA Band II	25.00	1.59	26.59	24.44	277.97	3060	0.2863
WCDMA Band IV	25.00	2.00	27.00	24.85	305.49	3060	0.3388
WCDMA Band V	25.00	2.29	27.29	25.14	326.59	1680.96	0.2863
LTE Band 2	25.00	1.59	26.59	24.44	277.97	3060	0.3388
LTE Band 4	25.00	2.00	27.00	24.85	305.49	3060	0.2863
LTE Band 5	25.00	2.29	27.29	25.14	326.59	1680.96	0.3388
LTE Band 25	25.00	1.59	26.59	24.44	277.97	3060	0.0908
LTE Band 26 (814-824)	25.00	2.53	27.53	25.38	345.14	1660.56	0.2078
LTE Band 26 (824-849)	25.00	2.53	27.53	25.38	345.14	1680.96	0.2053
Lora 400M	25.00	1.01	26.01	23.86	243.22	836.40	0.2908
Lora 2.4G	13.50	0.32	13.82	11.67	14.69	3060	0.0048
BT	8.00	2.30	10.30	8.15	6.53	3060	0.0021
BLE	8.00	2.30	10.30	8.15	6.53	3060	0.0021
WIFI2.4G	20.00	2.30	22.30	20.15	103.51	3060	0.0338
WIFI5G	19.00	2.80	21.80	19.65	92.26	3060	0.0301

For Multiple RF Source

The worst case of Simultaneously Transmission is:

$$\text{Lora 400M} + \text{LTE Band 2} + \text{WIFI 2.4G} = 0.2908 + 0.3388 + 0.0338 = 0.6634 < 1$$

Note:

1. The calculated distance is 20 cm.
2. The power comes from operation description.
3. The maximum calculations of above situations are less than the "1" limit.

END OF REPORT