



MAXIMUM PERMISSIBLE EXPOSURE EVALUATION REPORT

Applicant: Autel Robotics Co., Ltd.

Address: 601,701,801,901, Block B1, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, 518055, China

Product Name: EVO Max 4T V2, EVO Max 4N V2, EVO Max 4NZ V2

FCC ID: 2AGNTMDX1600958A

47 CFR §1.1310, 47 CFR §2.1091,

Standard(s): 47 CFR §15.247(i),47 CFR §15.407(f)

47 CFR §15.255(g)

Report Number: 2402A43113E-RF-00G

Report Date: 2025/1/25

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

Reviewed By: Pedro Yun

Peobo žwn

Approved By: Gavin Xu

Gowin Xu

Title: Project Engineer Title: RF Supervisor

Bay Area Compliance Laboratories Corp. (Dongguan)

No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China

Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

General Description Of Equipment under Test

EUT Name:	EVO Max 4T V2, EVO Max 4N V2, EVO Max 4NZ V2					
EUT Model:	MDX-1					
Rated Input Voltage:	DC 14.76V from battery					
EUT Received Date:	2024/11/5					
EUT Received Status:	Good					
Note:						

The device can install difference Gimbal camera, test was only performed with Gimbal camera 2# (Fusion 4NZ).

RF EXPOSURE EVALUATION (MPE)

RF Exposure Evaluation

Applicable Standard

According to subpart 15.247(i), 15.407(f)and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure										
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)						
0.3-1.34	614	1.63	*(100)	30						
1.34–30	824/f	2.19/f	*(180/f²)	30						
30–300	27.5	0.073	0.2	30						
300-1500	/	/	f/1500	30						
1500-100,000	/	/	1.0	30						

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculation formula

Prediction of power density at the distance of the applicable MPE limit

 $S = PG/4\pi R^2$ = 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, the power gain factor, is normally numeric gain;

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

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} \leq 1$$

Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance▲		Evaluation Distance (cm)	Power Density (mW/cm²)	MPE Limit (mW/cm²)
		(dBi)	(numeric)	(dBm)	(mW)			
SRD 900MHz	904-926	2.5	1.78	21.0	125.89	20.00	0.045	0.6
SRD 2.4G	2403.5-2475.5	2.6	1.82	26.0	398.11	20.00	0.144	1.0
SRD 5.2G	5154-5246	2.0	1.58	18.0	63.10	20.00	0.020	1.0
SRD 5.8G	5728-5847	2.0	1.58	26.5	446.68	20.00	0.141	1.0
WiFi 2.4G	2412-2462	3.4	2.19	21.5	141.25	20.00	0.062	1.0
WiFi 5.2G	5180-5240	1.1	1.29	19.0	79.43	20.00	0.020	1.0
WiFi 5.8G	5745-5825	2.8	1.91	17.0	50.12	20.00	0.019	1.0
Radar 60G*6	60000-62000	9.6	9.12	9.94	9.86	20.00	0.018	1.0

Note:

For Radar 60G, Radar EIRP is 19.54dBm, Maximum Conducted Power=19.54-9.6=9.94dBm Maximum Conducted Power (dBm)=EIRP(dBm)-Gain(dBi)

Note:

The Conducted output power including Tune-up Tolerance provided by manufacturer.

For Simultaneous transmission:

SRD, Wifi and 6 Radars can transmit simultaneously:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} \le 1$$

$$=S_{SRD}/S_{limit-SRD}+S_{Wifi}/S_{limit-Wifi}+S_{Radar\,60G}/S_{limit-\,Radar\,60G}*6$$

$$=0.144/1.0+0.062/1.0+0.018/1.0*6$$

=0.314

< 1.0

Result: The device meet FCC MPE at 20 cm distance

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EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402A43113E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402A43113E-RF-INP EUT INTERNAL PHOTOGRAPHS.

***** END OF REPORT *****

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