

RF Exposure Evaluation Report

Product : TRAIL CAMERA
Trade mark : BROWNING
Model/Type reference : BTC-PSMHD-AI
Serial Number : N/A
Report Number : EED32Q81528302
FCC ID : 2ALGTBTC-PSMHD-AI
Date of Issue : Nov. 25, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Prometheus Group LLC
2 Perimeter Park S, suite 305E, Birmingham, Alabama 35243 USA

Prepared by:

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1 Version

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3 General Information

3.1 Client Information

Applicant:	Prometheus Group LLC
Address of Applicant:	2 Perimeter Park S, suite 305E, Birmingham, Alabama 35243 USA
Manufacturer:	Hooray Innovation Limited
Address of Manufacturer:	Flat 1, 4/F, Wah Wai Centre, 38-42 Au Pui Wan Street, Fotan, Shatin, Hong Kong
Factory:	Hooray Innovation Limited
Address of Factory:	Flat 1, 4/F, Wah Wai Centre, 38-42 Au Pui Wan Street, Fotan, Shatin, Hong Kong

3.2 General Description of EUT

Product Name:	TRAIL CAMERA
Model No.(EUT):	BTC-PSMHD-AI
Trade Mark:	BROWNING

3.3 Product Specification subjective to this standard

Frequency Range:	FDD band 2:UL:1850-1910MHz,DL:1930–1990MHz; FDD band 4:UL:1710–1755MHz,DL:2110–2155MHz; FDD band 12:UL:699–716MHz,DL:729–746MHz; FDD band 13:UL:777–787MHz,DL:746–756MHz; FDD band 14: UL: 788- 798,DL:758 MHz-768 MHz; FDD band 25: UL:1850–1915MHz,DL:1930–1995 MHz; FDD band 66:UL:1710 – 1780 MHz,DL:2110 – 2200MHz	
Modulation Type:	QPSK, 16QAM	
Test Power Grade:	Default	
Test Software of EUT:	RF Test	
Antenna Type:	External Antenna	
Antenna Gain:	2.2dBi	
Power Supply:	Adapter:	INPUT:100-240V~50/60Hz OUTPUT: 12V, 3.33A
Sample Received Date:	Sep. 27, 2024	
Sample tested Date:	Sep. 27, 2024 to Oct. 24, 2024	
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

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

where

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

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

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

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

LTE Band	Channel	Frequency (MHz)	Max. Conducted Output power(dBm)	Max. Tune-up Conducted Output power(dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2	19100	1900	23.77	24.00	2.20	24.05	254.10	3060.00	Pass
4	20050	1720	22.25	23.00	2.20	23.05	201.84	3060.00	Pass
12	23095	707.5	26.38	27.00	2.20	27.05	506.99	1443.30	Pass
13	23230	782	23.67	24.00	2.20	24.05	254.10	1595.28	Pass
14	23305	790.5	23.52	24.00	2.20	24.05	254.10	1612.62	Pass
25	26590	1905	22.95	23.00	2.20	23.05	201.84	3060.00	Pass
66	132047	1717.5	23.06	24.00	2.20	24.05	254.10	3060.00	Pass

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15;
- ③EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;
- ⑤The estimation distance is 20cm;
- ⑥The test data please refer to the report of EED32Q81528301 and only the worst case data was recorded in the report.
- ⑦The Max. Tune-up Conducted Output power(dBm) is declared by client.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***