

RF Exposure Evaluation Report

Product : Trail Camera
Trade mark : Browning
Model/Type reference : BTC-PSMHD
Serial Number : N/A
Report Number : EED32P81242102
FCC ID : 2ALGTBTC-PSMHD
Date of Issue : Aug. 25, 2023
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
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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Aug. 25, 2023

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Check No.: 4225090823



2 Version

Version No.	Date	Description
00	Aug. 25, 2023	Original

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF EUT	4
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
4.4 TEST LOCATION	6
4.5 DEVIATION FROM STANDARDS	6
4.6 ABNORMALITIES FROM STANDARD CONDITIONS	6
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
5 SAR EVALUATION	7
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT	7
5.1.1 Limits	7
5.1.2 Test Procedure	7
5.1.3 EUT RF Exposure Evaluation	8

4 General Information

4.1 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:	Flat1, 4/F, Wah Wai Centre, 38-42 Au Pui Wan Street, Fotan, Shatin, Hong Kong
Factory:	Hooray Innovation Limited
Address of Factory:	Flat1, 4/F, Wah Wai Centre, 38-42 Au Pui Wan Street, Fotan, Shatin, Hong Kong

4.2 General Description of EUT

Product Name:	Trail Camera
Model No.(EUT):	BTC-PSMHD
Trade Mark:	Browning

4.3 Product Specification subjective to this standard

Frequency Range:	LTE Band 2: Tx: 1850-1910MHz; LTE Band 4: Tx: 1710-1755 MHz; LTE Band 5: Tx: 824-849 MHz; LTE Band 12: Tx: 699-716 MHz; LTE Band 13:TX:777 -787 MHz; LTE Band 25 :TX:1850-1915MHz; LTE Band 26:TX:824-849 MHz,814-824 MHz; LTE Band 66:Tx: 1710-1780MHz																													
Modulation Type:	QPSK, 16QAM																													
Antenna Type:	Dipole Antenna																													
Antenna Gain:	698-894MHz:6.10dBi; 1710-2155MHz:2.2dBi																													
Maximum tune up power	<table><tr><td>LTE Band 2:</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr><tr><td>LTE Band 4:</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr><tr><td>LTE Band 5:</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr><tr><td>LTE Band 12:</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr><tr><td>LTE Band 13:</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr><tr><td>LTE Band 25:</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr><tr><td>LTE Band 26:</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr><tr><td>LTE Band 26(PART 90S):</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr><tr><td>LTE Band 66:</td><td>25.00 dBm</td><td>(316.228 mW)</td></tr></table>			LTE Band 2:	25.00 dBm	(316.228 mW)	LTE Band 4:	25.00 dBm	(316.228 mW)	LTE Band 5:	25.00 dBm	(316.228 mW)	LTE Band 12:	25.00 dBm	(316.228 mW)	LTE Band 13:	25.00 dBm	(316.228 mW)	LTE Band 25:	25.00 dBm	(316.228 mW)	LTE Band 26:	25.00 dBm	(316.228 mW)	LTE Band 26(PART 90S):	25.00 dBm	(316.228 mW)	LTE Band 66:	25.00 dBm	(316.228 mW)
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LTE Band 66:	25.00 dBm	(316.228 mW)																												
Power Supply:	8*1.5V AA Batteries																													
Sample Received Date:	Aug. 10, 2023																													
Sample tested Date:	Aug. 10, 2023 to Aug. 14, 2023																													
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. The certified module ID is FCC ID:RI7ME310G1W3, and report numbers of this certified module are CN21N817001																														

This certified module will be integrated into a host that is a hunting camera.
In this report, this certified module is same as the original filling. We have verified the power and test for new radiated emission/exposure evaluation to demonstrate full compliance.

4.4 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

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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 Pth (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). Pth 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 ERP20cm 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.

5.1.2 Test Procedure

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

5.1.3 EUT RF Exposure Evaluation

For Stand alone:

Operating mode	Channel	Frequency (MHz)	Max. Tune up Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
LTE B2	18900	1800	25.00	2.20	27.20	25.05	319.8895	3060.000	PASS
LTE B4	20175	1732.5	25.00	2.20	27.20	25.05	319.8895	3060.000	PASS
LTE B5	20525	836.5	25.00	6.10	31.10	28.95	785.2356	1706.460	PASS
LTE B12	23155	713.5	25.00	6.10	31.10	28.95	785.2356	1443.300	PASS
LTE B13	23230	782	25.00	6.10	31.10	28.95	785.2356	1595.280	PASS
LTE B25	26365	1882.5	25.00	2.20	27.20	25.05	319.8895	3060.000	PASS
LTE B26	26915	836.5	25.00	6.10	31.10	28.95	785.2356	1670.760	PASS
LTE B26 (PART 90S)	26740	819	25.00	6.10	31.10	28.95	785.2356	1670.760	PASS
LTE B66	132422	1755	25.00	2.20	27.20	25.05	319.8895	3060.000	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15
- ③ The separation distance is 20cm.

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 ***