





Product Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue Test Standards

- Trail Camera BROWNING BTC-PSM, BTC-PSM-IF N/A EED32N80406801 2ALGTBTC-PSM Jul. 15, 2021
- 47 CFR Part 24 Subpart E 47 CFR Part 27 Subpart L

Test result

Prepared for:

5

Prometheus Group LLC P.O. Box 130100 Birmingham, Alabama 35213-0100 USA

PASS

Prepared by:

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form Compiled by: Reviewed by: Tom, Chen Aaron Ma David Wang Date: Jul. 15, 2021 David Wang Check No.:2433270521 Report Seal



2	Version		G	(a) (b)
	Version No.	Date	C	Description
	00	Jul. 15, 2021		Original
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3 Test Summary			
Test Item	Test Requirement	Result	
47 CFR Part 24 Subpart E	<u> </u>		
RF output power	Part 2.1046/Part 24.232	Note 1	
99% &26dB Occupied Bandwidth	Part 2.1049	Note 1	
Peak to average power ratio	Part 24.232	Note 1	
Spurious emissions	Part 2.1053/Part 24.238	PASS	
Spurious emissions at antenna terminals	Part 24.238	Note 1	
Frequency stability	Part 2.1055/Part 24.235	Note 1	
47 CFR Part 27 Subpart L			
RF output power	Part 2.1046/Part 27.50	Note 1	
99% &26dB Occupied Bandwidth	Part 2.1049	Note 1	
Peak to average power ratio	Part 24.232	Note 1	
Spurious emissions	Part 2.1053/Part 27.53	PASS	
Spurious emissions at antenna terminals	Part 27.53	Note 1	
Frequency stability	Part 2.1055/Part 25.54	Note 1	

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.

- Tx: In this whole report Tx (or tx) means Transmitter.
- Rx: In this whole report Rx (or rx) means Receiver.
- RF: In this whole report RF means Radiated Frequency.
- CH: In this whole report CH means channel.
- Volt: In this whole report Volt means Voltage.
- Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

Note 1: Refer to FCC ID: QIPEXS62-W report.

Model No.: BTC-PSM, BTC-PSM-IF

Only the model BTC-PSM was tested, BTC-PSM compared with BTC-PSM-IF, all RF parts of the product, Their electrical circuit design, layout, components used and internal wiring are identical, except only the model name, IR LED illumination board, IR LED component and the plastic lens at the IR illumination area are different, specific use models see the table below:

BTC-PSM is equipped with 850nm IR LEDs for illumination

BTC-PSM-IF is equipped with 940nm IR LEDs for illumination



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4 CONTE	NT		<u></u>		
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5.1 Tes 5.1.1 5.1.2 5.2 Tes	T SETUP For Conducted test For Radiated Emiss T ENVIRONMENT	setup ions test setup			5 5
6 GENER	AL INFORMATION	<u> </u>	<u> </u>	<u> </u>	6
6.1 CLIE 6.2 GEN 6.3 DES 6.4 TES 6.5 DEV 6.6 ABN 6.7 OTH 6.8 MEA	ENT INFORMATION NERAL DESCRIPTION O SCRIPTION OF SUPPOR IT LOCATION (IATION FROM STANDA IORMALITIES FROM ST HER INFORMATION REC ASUREMENT UNCERTA	RDS ANDARD CONDITIONS QUESTED BY THE CUSTON INTY (95% CONFIDENCE	MER LEVELS, K=2)		
7 EQUIPN	IENT LIST				8
8 FIELD S	TRENGTH OF SPU	RIOUS RADIATION	<u> </u>	<u> </u>	9
PHOTOGI	RAPHS OF TEST SE	ETUP			14
PHOTOGI	RAPHS OF EUT CO	NSTRUCTIONAL DET	AILS		16





5.2 Test Environment

	· (
Operating Environm	nent:	6	5)	(C)	
Temperature:	24.0 °C				
Humidity:	56 % RH				
Atmospheric Pressure:	1010mbar	(i)	(i)		12
- COL 19 1		1 (10) Y 1	- 1905 W L		1 10 10 10 10 10 10 10 10 10 10 10 10 10

6 General Information

6.1 Client Information

Applicant:	Prometheus Group LLC
Address of Applicant:	P.O. Box 130100 Birmingham, Alabama 35213-0100 USA
Manufacturer:	Hooray Innovation Limited
Address of Manufacturer:	Flat 3, 15/F, Wah Yiu Industrial Building, 30-32 Au Pui Wan Street, Shatin, HK.
Factory:	Hooray Innovation Limited
Address of Factory:	Flat 3, 15/F, Wah Yiu Industrial Building, 30-32 Au Pui Wan Street, Shatin, HK.

6.2 General Description of EUT

Product Name:	Trail Camera	~
Model No. (EUT):	BTC-PSM	<u>(</u>)
Add Model No.:	BTC-PSM-IF	\sim
Trade Mark:	BROWNING	
Frequency Band:	LTE Band 2 TX:1850~1910MHz RX:1930~1990MHz LTE Band 4 TX:1710~1755MHz RX:2110~2155MHz LTE Band 12 TX:699~716MHz RX:729~746MHz LTE Band 13 TX: 777~787MHz RX:746~756MHz	(A)
Modulation Type:	LTE: QPSK,16QAM	
Sample Type:	Fix Location	
Antenna Type:	Dipole Antenna	No.
Antenna Gain:	42dBi	57)
Power Supply:	8X1.5V Batteries; size AA	
Test Voltage:	DC 12V	
Sample Received Date:	Jun. 15, 2021	(3)
Sample tested Date:	Jun. 15, 2021 to Jul. 07, 2021	(S)



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6.3 Description of Support Units

The EUT has been tested independently.

6.4 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

6.5 Deviation from Standards

None.

6.6 Abnormalities from Standard Conditions

None.

6.7 Other Information Requested by the Customer

None.

6.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
2		0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-18GHz)	
3	Padiated Spurious omission test	4.3dB (30MHz-1GHz)	
3	Radiated Spunous emission test	4.5dB (1GHz-12.75GHz)	
	Conduction emission	3.5dB (9kHz to 150kHz)	
4	Conduction emission	3.1dB (150kHz to 30MHz)	
5	Temperature test	0.64°C	
6	Humidity test	3.8%	
7	DC power voltages	0.026%	

Hotline:400-6788-333











Equipment List 7

		3M full-anecho	ic Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	(A	- 0
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Communication Antenna	Schwarzbeck	CLSA 0110L	1014		
Horn Antenna	ETS- LINDGREN	3117	57407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022
Communication test set	R&S	CMW500	102898	12-31-2020	12-30-2021
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-31-2020	12-30-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001		- 7
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002	67	(6
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003		
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001		
Cable line	Times	EMC104-NMNM- 1000	SN160710	(<u>()</u>
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001		
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001		
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		- (2













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8 Field strength of spurious radiation

13	Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	6
6		0.009MHz-30MHz	Peak	10kHz	30kHz	Peak	(\mathcal{C})
1		30MHz-1GHz	Peak	120kHz	300kHz	Peak	
		Above 1GHz	Peak	1MHz	3MHz	Peak	
Cr.	Measurement Procedure:	 Scan up to 10th harmor The technique used to antenna substitution mactual ERP/EIRP emiss Test procedure as below: The EUT was powered Anechoic Chamber. The length. modulation mo frequency of the transm The EUT was set 3 me interference receiving a 	nic, find the max find the Spuriou ethod. Substitut sion levels of the ON and placed e antenna of the de and the mea nitter under test. ters(above 18G	imum radia is Emission ion method e EUT. on a 0.8m e transmitte suring rece Hz the dista	tion freque s of the tra was perfo hight table r was exte iver shall l ance is 1 n	ency to measu ansmitter was to prmed to detern ended to its ma be tuned to the meter) away fro	re. the mine the fully aximum om the o boight
		 anternerence-receiving a antenna tower. 3) The disturbance of the raising and lowering from 360° the turntable. After measurement was maded and horizontal polarization. 	transmitter was om 1m to 4m the r the fundamen de. formed with the tion.	was mounte maximized receive ar tal emissior EUT and th	on the tes on the tes ntenna anc n was max ne receive	op of a variabl st receiver disp l by rotating th imized, a field antenna in bo	e-neignt ilay by rough strength th vertical
C.		 5) The transmitter was the the antenna was appro 6) A signal at the disturba radiating cable. With be polarized, the receive a reading at the test recemeasured field strength 7) The output power into the strength of the strengt	en removed and ximately at the s nce was fed to t oth the substitut antenna was rais viver. The level of n level in step 3) he substitution	replaced w same locati the substitu ion and the sed and low of the signa) is obtained antenna wa	vith anothe on as the tion anten receive an vered to ok l generato d for this s	er antenna. The center of the tr na by means c ntennas horizo otain a maximu r was adjusted et of conditions asured	e center of ansmitter. If a non- ntally Im until the s.
C>.		 7) The output power into the second second	ne substitution a peated with both n by the followin sm) – cable loss 3m) – cable loss 3m) – cable loss tput power into to vest channel, the ments are perfor ound the X axis res until all frequ	antenna wa n antennas g formula: (dB) + ante s (dB) + ant the substitu e middle ch rmed in X, ` positioning uencies me	tion anten ry, Z axis p which it is asured wa	asured. (dBd) (dBi) na. Highest chann ositioning for E worse case. is complete.	el EUT
	Limit:	Attenuated at least 43+10k	a(P)			o oompiete.	
			· 3\' /				



Measurement Data

Remark: Only the worst case was recorded in the report.

	Mode:	LTE						
	Band:	Band 2		C	hannel:	18	900	
	Remark:	0	1	20				6
	6			37)		G		G
Susp	ected List							
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	99.4659	150	80	-75.58	-13.00	62.58	PASS	Horizonta
2	270.0260	150	13	-72.55	-13.00	59.55	PASS	Horizonta
3	552.9346	150	156	-75.33	-13.00	62.33	PASS	Horizonta
4	2414.3414	150	360	-45.61	-13.00	32.61	PASS	Horizonta
5	7667.4834	150	347	-50.96	-13.00	37.96	PASS	Horizonta
6	17602.4801	150	227	-42.92	-13.00	29.92	PASS	Horizonta
7	120.0340	150	3	-66.01	-13.00	53.01	PASS	Vertical
8	160.0060	150	3	-62.89	-13.00	49.89	PASS	Vertical
9	739.2118	150	3	-70.00	-13.00	57.00	PASS	Vertical
10	2556.5557	150	110	-45.34	-13.00	32.34	PASS	Vertical
11	7401.2201	150	301	-51.24	-13.00	38.24	PASS	Vertical
12	14350.3175	150	32	-44.01	-13.00	31.01	PASS	Vertical

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Mode:	LTE		
Band:	Band 4	Channel:	20175
Remark:			·

Susp	Suspected List							
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	139.8260	150	324	-74.57	-13.00	61.57	PASS	Horizontal
2	270.0260	150	256	-72.11	-13.00	59.11	PASS	Horizontal
3	731.8384	150	3	-72.84	-13.00	59.84	PASS	Horizontal
4	2687.3687	150	93	-45.77	-13.00	32.77	PASS	Horizontal
5	9715.0858	150	237	-47.71	-13.00	34.71	PASS	Horizontal
6	14363.0682	150	256	-43.35	-13.00	30.35	PASS	Horizontal
7	120.0340	150	3	-64.71	-13.00	51.71	PASS	Vertical
8	160.0060	150	3	-64.51	-13.00	51.51	PASS	Vertical
9	726.2112	150	3	-58.95	-13.00	45.95	PASS	Vertical
10	2704.1704	150	90	-45.58	-13.00	32.58	PASS	Vertical
11	5031.8516	150	110	-53.26	-13.00	40.26	PASS	Vertical
12	14404.3202	150	64	-42.64	-13.00	29.64	PASS	Vertical
6	51	6	S 1	(,	2		(2))





















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Mode:			
Band:	Band 12	Channel:	18900
Remark:			



Susp	Suspected List							
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	62.4045	150	13	-74.90	-13.00	61.90	PASS	Horizontal
2	120.0340	150	3	-73.65	-13.00	60.65	PASS	Horizontal
3	270.0260	150	13	-72.08	-13.00	59.08	PASS	Horizontal
4	5022.8511	150	192	-53.93	-13.00	40.93	PASS	Horizontal
5	9724.0862	150	118	-47.85	-13.00	34.85	PASS	Horizontal
6	16501.4251	150	90	-42.63	-13.00	29.63	PASS	Horizontal
7	71.9124	150	3	-72.60	-13.00	59.60	PASS	Vertical
8	160.0060	150	3	-62.51	-13.00	49.51	PASS	Vertical
9	548.4717	150	183	-71.14	-13.00	58.14	PASS	Vertical
10	5058.1029	150	156	-54.06	-13.00	41.06	PASS	Vertical
11	9292.0646	150	257	-48.72	-13.00	35.72	PASS	Vertical
12	14474.0737	150	284	-42.75	-13.00	29.75	PASS	Vertical
	<u></u>	6	2	6	2		12	1















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Mode:	LTE	U	
Band:	Band 13	Channel:	20525
Remark:			

								(3)
Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	39.8960	150	80	-73.52	-13.00	60.52	PASS	Horizontal
2	137.1094	150	13	-74.92	-13.00	61.92	PASS	Horizontal
3	270.0260	150	360	-72.06	-13.00	59.06	PASS	Horizontal
4	5028.8514	150	301	-53.79	-13.00	40.79	PASS	Horizontal
5	9730.8365	150	13	-47.75	-13.00	34.75	PASS	Horizontal
6	14396.0698	150	107	-43.95	-13.00	30.95	PASS	Horizontal
7	120.0340	150	3	-67.36	-13.00	54.36	PASS	Vertical
8	160.0060	150	3	-63.16	-13.00	50.16	PASS	Vertical
9	284.9670	150	258	-70.34	-13.00	57.34	PASS	Vertical
10	5020.6010	150	310	-53.79	-13.00	40.79	PASS	Vertical
11	11191.9096	150	292	-47.30	-13.00	34.30	PASS	Vertical
12	16498.4249	150	0	-42.43	-13.00	29.43	PASS	Vertical



















