

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	CN22SO5L (FCC-MPE) 001	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	238521273	Seite 1 von 9 Page 1 of 9
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2021-10-14	
<b>Auftraggeber:</b> <i>Client:</i>	Eve Systems LLC 100 Pine St., Suite 1250, San Francisco CA 94111 USA			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Eve Outdoor Cam			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	20ECA4101			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC Certification			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	IEEE Std C95.1 47 CFR §2.1091 47 CFR §1.1310			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2021-10-22			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003150447-003 & 006 A003162046-002 & 005			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2021-12-14 - 2021-12-20			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	Taipei Testing Laboratories			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>überprüft von:</b> <i>compiled by:</i>	 Ryan Chen	<b>genehmigt von:</b> <i>authorized by:</i>	 Brenda Chen	
<b>Datum:</b> <i>Date:</i>	2022-01-14	<b>Ausstellungsdatum:</b> <i>Issue date:</i>	2022-01-14	
<b>Stellung / Position:</b>	Senior Project Manager	<b>Stellung / Position:</b>	Senior Project Manager	
<b>Sonstiges / Other:</b>				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>  <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

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### HISTORY OF THIS TEST REPORT

Report No.	Description	Date Issued
CN22SO5L (FCC-MPE) 001	Original Release	2022-01-14

# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:  
**Appendix EP - Photographs of EUT**

## 1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

## 2 Test Sites

### 2.1 Test Facilities

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.  
Taipei City 105  
Taiwan (R.O.C.)

### 2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,  
New Taipei City 244  
Taiwan (R.O.C.)

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The EUT is Eve Outdoor Cam. It contains Bluetooth & THREAD compatible module enabling the user to communicate data through Bluetooth interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

#### 3.2 Ratings and System Details

##### Basic Information of EUT

Item	EUT Information
Kind of Equipment/Test Item	Eve Outdoor Cam
Type Identification	20ECA4101
FCC ID	SNE-ODC-001

##### Technical Specification of EUT

Item	EUT Information
Operating Frequency	Bluetooth LE: 2402 ~ 2480 MHz THREAD: 2405 ~ 2480 MHz
Modulation	GFSK
Operation Voltage	5 Vdc
Antenna Type	PCB
Antenna Gain	4.2 dBi

## 4 Maximum Permissible Exposure Evaluation

### 4.1 Introduction

This Standard specifies requirements for, and provides guidance on, assessing compliance with the exposure limits of radiofrequency (RF) safety standards such as IEEE Std C95.1. This includes methodologies for making an assessment (by measurement or computation) of human exposure to ambient RF fields and induced body currents in the frequency range of 0 kHz to 300 GHz.

This Standard may also be used as a guide for making low-level environmental exposure assessments in areas around RF sources listed above, as well as other sources such as Wi-Fi devices.

### 4.2 Reference Levels

Where appropriate, the reference levels are derived from the basic restrictions by mathematical modelling and by extrapolation from the results of laboratory investigations at specific frequencies. They are given for the condition of maximum coupling of the field to the exposed individual, thereby providing maximum protection.

According to FCC 1.1310, the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

The FCC MPE limits from 47 CFR §1.1310 are shown in the table below

Frequency Range [MHz]	Electric Field Strength [V/m]	Magnetic Field Strength [A/m]	Power Density [mW/cm <sup>2</sup> ]	Average Time [minutes]
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	*100	6
3.0 – 30	1842/f	4.89/f	*900/f <sup>2</sup>	6
30 – 300	61.4	0.163	1.0	6
300 – 1500			f/300	6
1500 – 100000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	*100	30
1.34 – 30	824/f	2.19/f	*180/f <sup>2</sup>	30
30 – 300	27.5	0.073	0.2	30
300 – 1500			f/1500	30
1500 – 100000			1.0	30

NOTE –

- (1)  $f$  is the frequency in MHz.
- (2) Provided that basic restrictions are met and adverse indirect effects can be excluded, field strength values can be exceeded. For the specific case of occupational exposures at frequencies up to 100 kHz, the derived electric fields can be increased by a factor of 2 under conditions in which adverse indirect effects from contact with electrically charged conductors can be excluded.
- (3) For frequencies between 100 kHz and 10 GHz, the quantities  $S_{eq}$ , E2 and H2 are averages over any 6 minutes.
- (4) For frequencies exceeding 10 GHz,  $S_{eq}$ , the quantities E2 and H2 are averages over any  $68/f$  1.05 minutes ( $f$  in GHz).

### 4.3 Classification of the Assessment Methods

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. So, this product under normal use is located on electromagnetic far field between the human body.

#### MPE Calculation Method according to KDB 447487 D01 General RF Exposure Guidance v06

Power Density:  $S_{(mW/cm^2)} = PG/4\pi R^2$  or  $EIRP/4\pi R^2$

Where:

S = power density (mW/cm<sup>2</sup>)

P = power input to the antenna (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (cm)



## 5 Test Results

### 5.1 Maximum Power Density

The maximum power density at a distance of 20 cm are shown as below:

Mode	Frequency (MHz)	Average Output Power (dBm)	Average Output Power (mW)	Antenna Gain (dBi)	Power Density (mW/cm <sup>2</sup> )	Limit of Power Density (mW/cm <sup>2</sup> )	Pass / Fail
BLE	2402	6.77	4.75	4.2	0.002	1	Pass
Thread	2405	6.66	4.63	4.2	0.002	1	Pass