RF Exposure Report

Report No.:	SA190212E02
FCC ID:	2ANPR-M-PWRSENS
Test Model:	M-PWRSENS
Received Date:	Feb. 12, 2019
Test Date:	Feb. 22, 2019
Issued Date:	Mar. 12, 2019
Applicant:	SensThys, Inc.
Address:	21060 Homestead Rd. Suite 226 Cupertino, CA 95014
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
FCC Registration / Designation Number:	723255 / TW2022

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SA190212E02	Original release.	Mar. 12, 2019

1 Certificate of Conformity

Product:	M-PWRSENS
Brand:	SensThys, Inc.
Test Model:	M-PWRSENS
Sample Status:	ENGINEERING SAMPLE
Applicant:	SensThys, Inc.
Test Date:	Feb. 22, 2019
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : _____ , **Date:** Mar. 12, 2019

Cindy Hsin / Specialist

Approved by : _____ , **Date:** Mar. 12, 2019

May Chen / Manager

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	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

2.2 MPE Calculation Formula

$Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 22cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Ant. No.	Antenna Net Gain (dBi)	Frequency range (MHz to MHz)	Antenna Type	Connecter Type	Cable Loss(dB)	Excluding cable loss Antenna Gain(dBic)
1	4.75	902~928	Patch	SMA Female	0.75	8.5
2	5.25	902~928	Patch	SMA Female	0.75	9

Note:
1. The EUT has four chain ports (chain 0 / chain 1 / chain 2 / chain 3) and can connect any one to function. When one chain port functions, another don't any function.
2. From the above conditions, the worst cases were found in **Chain 0**. Therefore only the test data of the mode was recorded in this report.

2.5 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
902.75 ~ 927.25	893.305	5.25	22	0.49198	0.60183

Note: Limit of Power Density= f/1500

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