

# RF Exposure Evaluation Report

Product Name : OCCSensaBLE Basic

Model No. : Basic

FCC ID : 2ARX9-OCCBASIC

Applicant : Open Platform Systems LLC

Address : 108 West 33<sup>rd</sup> St, Garden City Idaho United States, 83714

Date of Receipt : Mar. 15, 2019

Date of Declaration : May. 08, 2019

Report No. : 1930243R-SAUSP03V00

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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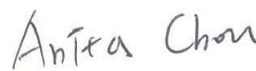
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Applicant	Open Platform Systems LLC
Address	108 West 33 <sup>rd</sup> St, Garden City Idaho United States, 83714
Manufacturer	Open Platform Systems LLC
Model No.	Basic
FCC ID.	2ARX9-OCCBASIC
Trade Name	OCCSensaBLE
Applicable Standard	FCC 47 CFR 1.1310
Test Result	Complied

Documented By :



( Senior Engineering Adm. Specialist / Anita Chou )

Tested By :



( Senior Engineer / Wen Lee )

Approved By :



( Director / Vincent Lin )

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	OCCSensaBLE Basic
Trade Name	OCCSensaBLE
Model No.	Basic
FCC ID.	2ARX9-OCCBASIC
Frequency Range	2402 – 2480MHz
Channel Number	40
Type of Modulation	GFSK(1Mbps)
Antenna Type	PCB Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Texas Instruments	DN0007	PCB Antenna	3.3dBi for 2.4GHz

## 2. RF Exposure Evaluation

### 2.1. Limits

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)

#### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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

## 2.2. Test Result of RF Exposure Evaluation

Product : OCCSensaBLE Basic  
Test Item : RF Exposure Evaluation

### BT Peak Gain: 3.3dBi

Band	Frequency (MHz)	Conducted Peak Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Pass/Fail
BLE	2402	3.11	2.046	0.0009	1	Pass
	2440	-2.04	0.625	0.0003	1	Pass
	2480	-6.00	0.251	0.0001	1	Pass

Note: The conducted output power is refer to report No.: 1930243R-RFUSP01V00 from the DEKRA.