

RF EXPOSURE EVALUATION REPORT

| APPLICANT | : | Vaultek Safe, Inc. |
|--------------|---|---|
| PRODUCT NAME | : | PRO VT/PRO VTi safe |
| MODEL NAME | : | PRO VT-BK,PRO VT-CM,PRO VT-WT, PRO VT-DT, PRO VT-TG,PRO VTi-BK, PRO VTi-CM, PRO VTi-WT, PRO VTi-DT, PRO VTi-TG |
| BRAND NAME | : | VAULTEK |
| FCC ID | : | 2AONI-PRO-VTI01 |
| STANDARD(S) | : | 47CFR 2.1093 KDB 447498 |
| ISSUE DATE | : | 2018-1-16 |

Tested by:

eng hu

Peng Fuwei (Test engineer)

Approved by: _

Peng Huarui (Supervisor)

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| Change History | | | |
|----------------|------------|-------------------|--|
| Issue | Date | Reason for change | |
| 1.0 | 2018-01-16 | First edition | |
| | | | |





1. Technical Information

Note: Provide by manufacturer.

1.1 Applicant and Manufacturer Information

| Applicant: | Vaultek Safe, Inc. | |
|-----------------------|--|--|
| Applicant Address: | 37 N Orange Ave.Suite 800B Orlando, FL 32801,United States | |
| Manufacturer: | Jeritech Electronics, Ltd. | |
| Manufacturer Address: | 3F and 1-1F, Guannanyong Industrial Estate, Shiqi Town, Panyu, | |
| Manufacturer Address: | GuangZhou, China | |

1.2 Equipment Under Test (EUT) Description

| EUT Type: | PRO VT/PRO VTi safe | |
|-------------------|-----------------------------------|--|
| Hardware Version: | R12 | |
| Software Version: | R12 | |
| Frequency Bands: | Bluetooth 4.2 LE:2402MHz-2480MHz; | |
| Modulation Mode: | Bluetooth 4.2 LE: GFSK; | |
| Antenna type: | PCB Antenna | |

Note1: According to the certificate holder, they declared that the models: PRO VT-BK, PRO VT-WT, PRO VT-CM, PRO VT-DT, PRO VT-TG, PRO VTi-BK, PRO VTi-CM, PRO VTi-WT, PRO-VTi-DT, PRO VTi-TG only the models and colors are different, they have the same substrate and material. The main measuring model is PRO VTi-BK, only the results for PRO VTi-BK were recorded in this report.





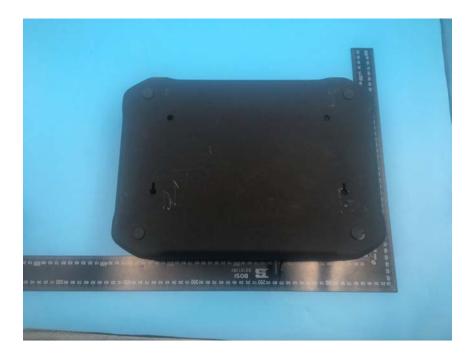
REPORT No. : SZ17120117S02

1.3 Photographs of the EUT

1. EUT front view



2. EUT rear view





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1.3.1 Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

| EUT Identity | Hardware Version | Software Version |
|-----------------|------------------|------------------|
| 1# | R12 | R12 |

1.4 Applied Reference Documents

Leading reference documents for testing:

| No. | Identity | Document Title |
|-----|-------------------|---|
| 1 | 47 CFR§2.1093 | Radio frequency Radiation Exposure Evaluation: portable |
| | | devices |
| 2 | KDB 447498 D01v06 | General RF Exposure Guidance |





2. Device Category And RF Exposure Limit

Per user manual, this device is a Safety. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

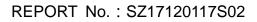
For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.







3. Measurement Of conducted Peak Output Power

1. Bluetooth peak output power

| Band | Channel | Frequency (MHz) | Output Power(dBm) GFSK |
|---------------------|---------|--------------------|------------------------------|
| Blueteeth | 0 | 2402 | -4.54 |
| Bluetooth 4.2 LE | 19 | 2440 | -4.50 |
| 4.2 LE | 39 | 2480 | -4.64 |

4. RF Exposure Evaluation

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f}(GHz)$] ≤ 3.0

The maximum tune-up limit power is 0.5mW @ 2.440GHz

When Safety is used on the hand, so use **5mm** as the most conservative minimum test separation distance,

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f}(GHz)$] =0.16 \leq 3.0

So SAR evaluation is not required for this device. Note: Declaration of the tune-up limit is -3.0dBm. Antenna Gain is 1.36dBi.





Annex A General Information

1. Identification of the Responsible Testing Laboratory

| Company Name: | Shenzhen Morlab Communications Technology Co., Ltd. | |
|-------------------------------|--|--|
| Department: | Morlab Laboratory | |
| Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang | |
| | Road, Block 67, BaoAn District, ShenZhen, GuangDong | |
| | Province, P. R. China | |
| Responsible Test Lab Manager: | Mr. Su Feng | |
| Telephone: | +86 755 36698555 | |
| Facsimile: | +86 755 36698525 | |

2. Identification of the Responsible Testing Location

| Name: | Shenzhen Morlab Communications Technology Co., Ltd. |
|----------|--|
| | Morlab Laboratory |
| Address: | FL.3, Building A, FeiYang Science Park, No.8 LongChang |
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_____ END OF REPORT ____

