



# RF EXPOSURE EVALUATION REPORT

**FCC ID** : PKRISGMD2000  
**Equipment** : Wireless Module  
**Brand Name** : Inseego  
**Model Name** : MD2000  
**Applicant** : Inseego Corporation  
9710 Scranton Road Suite 200, San Diego, CA 92121  
**Standard** : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1091 and it complies with applicable limit.

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Approved by: Cona Huang / Deputy Manager

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## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FA090125   | Rev. 01 | Initial issue of report | Oct. 07, 2020 |
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**1. Description of Equipment Under Test (EUT)**

| Product Feature & Specification         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT Type                                | Wireless Module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Brand Name                              | Inseego                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Model Name                              | MD2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| FCC ID                                  | PKRISGMD2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Wireless Technology and Frequency Range | WCDMA Band II: 1850 MHz ~ 1910 MHz<br>WCDMA Band V: 824 MHz ~ 849 MHz<br>LTE Band 2: 1850 MHz ~ 1910 MHz<br>LTE Band 4: 1710 MHz ~ 1755 MHz<br>LTE Band 5: 824 MHz ~ 849 MHz<br>LTE Band 7: 2500 MHz ~ 2570 MHz<br>LTE Band 12: 699 MHz ~ 716 MHz<br>LTE Band 13: 777 MHz ~ 787 MHz<br>LTE Band 14: 788 MHz ~ 798 MHz<br>LTE Band 17: 704 MHz ~ 716 MHz<br>LTE Band 25: 1850 MHz ~ 1915 MHz<br>LTE Band 26: 814 MHz ~ 849 MHz<br>LTE Band 30: 2305 MHz ~ 2315 MHz<br>LTE Band 38: 2570 MHz ~ 2620 MHz<br>LTE Band 41: 2496 MHz ~ 2690 MHz<br>LTE Band 42: 3550 MHz ~ 3600MHz<br>LTE Band 48: 3550 MHz ~ 3700MHz<br>LTE Band 66: 1710 MHz ~ 1780 MHz<br>LTE Band 71: 663 MHz ~ 698 MHz<br>5G NR n2 : 1850 MHz ~ 1910 MHz<br>5G NR n12 : 699 MHz ~ 716 MHz<br>5G NR n25 : 1850 MHz ~ 1915 MHz<br>5G NR n66 : 1710 MHz ~ 1780 MHz<br>WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz<br>WLAN 5.2GHz Band: 5150 MHz ~ 5250 MHz<br>WLAN 5.3GHz Band: 5250 MHz ~ 5350 MHz<br>WLAN 5.6GHz Band: 5470 MHz ~ 5725 MHz<br>WLAN 5.8GHz Band: 5725 MHz ~ 5825 MHz<br>Bluetooth: 2400 MHz ~ 2483.5 MHz |
| Mode                                    | RMC 12.2Kbps<br>HSDPA<br>HSUPA<br>LTE: QPSK, 16QAM, 64QAM<br>5G NR: DFT-s-OFDM/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM<br>WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80<br>Bluetooth BR/EDR/LE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EUT Stage                               | Identical Prototype                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

**Reviewed by: Jason Wang**

**Report Producer: Paula Chen**

## **2. Maximum RF average output power among production units**

| Mode  |         | Maximum Average power(dBm) |
|-------|---------|----------------------------|
| WCDMA | Band II | 25.70                      |
|       | Band V  | 25.20                      |
| LTE   | Band 2  | 25.70                      |
|       | Band 4  | 25.70                      |
|       | Band 5  | 25.20                      |
|       | Band 7  | 25.20                      |
|       | Band 12 | 25.20                      |
|       | Band 13 | 25.20                      |
|       | Band 14 | 25.20                      |
|       | Band 17 | 25.20                      |
|       | Band 25 | 25.70                      |
|       | Band 26 | 25.20                      |
|       | Band 30 | 24.00                      |
|       | Band 38 | 25.20                      |
|       | Band 41 | 27.20                      |
|       | Band 66 | 25.20                      |
|       | Band 71 | 25.20                      |

| Mode        |                 | Maximum Average power(dBm) |
|-------------|-----------------|----------------------------|
| 2.4GHz WLAN | 2Tx Total Power | 22.50                      |
| 5GHz WLAN   | 2Tx Total Power | 22.50                      |

### 3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 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                        |
| 1500-100,000                                                   |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 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                       |
| 1500-100,000                                                   |                               |                               | 1.0                                 | 30                       |

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

## 4. Radio Frequency Radiation Exposure Evaluation

### 4.1. Standalone Power Density Calculation

| Band         | Antenna Gain (dBi) | Maximum Power (dBm) | Maximum ERP (dBm) | Maximum ERP (W) | Maximum EIRP (dBm) | Maximum EIRP (W) | Maximum Output Power Limit (W) | Average EIRP (mW) | Power Density at 20cm (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Power Density / Limit |
|--------------|--------------------|---------------------|-------------------|-----------------|--------------------|------------------|--------------------------------|-------------------|---------------------------------------------|-----------------------------|-----------------------|
| WCDMA Band 2 | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 2.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| WCDMA Band 4 | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 1.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| WCDMA Band 5 | 4.00               | 24.00               | 25.850            | 0.385           | 28.000             | 0.631            | 7.000                          | 630.957           | 0.126                                       | 0.549                       | 0.229                 |
| LTE Band 2   | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 2.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| LTE Band 4   | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 1.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| LTE Band 5   | 4.00               | 24.00               | 25.850            | 0.385           | 28.000             | 0.631            | 7.000                          | 630.957           | 0.126                                       | 0.549                       | 0.229                 |
| LTE Band 7   | 7.00               | 24.00               | 28.850            | 0.767           | 31.000             | 1.259            | 2.000                          | 1258.925          | 0.251                                       | 1.000                       | 0.251                 |
| LTE Band 12  | 3.20               | 24.00               | 25.050            | 0.320           | 27.200             | 0.525            | 3.000                          | 524.807           | 0.104                                       | 0.466                       | 0.224                 |
| LTE Band 13  | 3.50               | 24.00               | 25.350            | 0.343           | 27.500             | 0.562            | 3.000                          | 562.341           | 0.112                                       | 0.518                       | 0.216                 |
| LTE Band 14  | 3.60               | 24.00               | 25.450            | 0.351           | 27.600             | 0.575            | 3.000                          | 575.440           | 0.115                                       | 0.525                       | 0.218                 |
| LTE Band 17  | 3.20               | 24.00               | 25.050            | 0.320           | 27.200             | 0.525            | 3.000                          | 524.807           | 0.104                                       | 0.469                       | 0.223                 |
| LTE Band 25  | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 2.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| LTE Band 26  | 4.00               | 24.00               | 25.850            | 0.385           | 28.000             | 0.631            | 7.000                          | 630.957           | 0.126                                       | 0.543                       | 0.231                 |
| LTE Band 30  | -0.60              | 24.00               | 21.250            | 0.133           | 23.400             | 0.219            | 0.250                          | 218.776           | 0.044                                       | 1.000                       | 0.044                 |
| LTE Band 38  | 7.00               | 24.00               | 28.850            | 0.767           | 31.000             | 1.259            | 2.000                          | 1258.925          | 0.251                                       | 1.000                       | 0.251                 |
| LTE Band 41  | 5.00               | 26.00               | 28.850            | 0.767           | 31.000             | 1.259            | 2.000                          | 1258.925          | 0.251                                       | 1.000                       | 0.251                 |
| LTE Band 42  | 3.50               | 19.50               | 20.850            | 0.122           | 23.000             | 0.200            | 0.200                          | 199.526           | 0.040                                       | 1.000                       | 0.040                 |
| LTE Band 48  | 3.50               | 19.50               | 20.850            | 0.122           | 23.000             | 0.200            | 0.200                          | 199.526           | 0.040                                       | 1.000                       | 0.040                 |
| LTE Band 66  | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 1.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| LTE Band 71  | 3.10               | 24.00               | 24.950            | 0.313           | 27.100             | 0.513            | 3.000                          | 512.861           | 0.102                                       | 0.442                       | 0.231                 |
| 5G FR1 n2    | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 2.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| 5G FR1 n12   | 3.20               | 24.00               | 25.050            | 0.320           | 27.200             | 0.525            | 3.000                          | 524.807           | 0.104                                       | 0.466                       | 0.224                 |
| 5G FR1 n25   | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 2.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| 5G FR1 n66   | 6.00               | 24.00               | 27.850            | 0.610           | 30.000             | 1.000            | 1.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |
| 2.4GHz WLAN  | 17.00              | 17.00               | 31.850            | 1.531           | 34.000             | 2.512            | 3.980                          | 2511.886          | 0.500                                       | 1.000                       | 0.500                 |
| 5GHz WLAN    | 13.00              | 17.00               | 27.850            | 0.610           | 30.000             | 1.000            | 1.000                          | 1000.000          | 0.199                                       | 1.000                       | 0.199                 |

#### <EN-DC Simtaneous Transmission analysis>

| EN-DC                        |                                | Σ (Power Density / Limit)<br>of<br>LTE + 5G NR |
|------------------------------|--------------------------------|------------------------------------------------|
| LTE<br>Power Density / Limit | 5G NR<br>Power Density / Limit |                                                |
| 0.251                        | 0.224                          | 0.475                                          |

#### General Note:

- The device support 5G FR1 NSA mode, consider colocation analysis to selected worst case LTE and 5G NR power density / limit to summation to show compliance
- Σ(Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for LTE + 5G NR.
- Considering the collocation with the four transmitters of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 2 collocated transmitters is compliant

**4.2. EN-DC active and transmit with WLAN**

| Band            | Antenna Gain (dBi) | Maximum Power (dBm) | Maximum EIRP (dBm) | Maximum EIRP (W) | Average EIRP (mW) | Power Density at 20cm (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Power Density / Limit |
|-----------------|--------------------|---------------------|--------------------|------------------|-------------------|---------------------------------------------|-----------------------------|-----------------------|
| WCDMA Band 2    | 6.00               | 24.00               | 30.0               | 1.00             | 1000.00           | 0.199                                       | 1.000                       | 0.199                 |
| WCDMA Band 4    | 5.80               | 24.00               | 29.8               | 0.95             | 954.99            | 0.190                                       | 1.000                       | 0.190                 |
| WCDMA Band 5    | 3.60               | 24.00               | 27.6               | 0.58             | 575.44            | 0.115                                       | 0.549                       | 0.209                 |
| LTE Band 2      | 6.00               | 24.00               | 30.0               | 1.00             | 1000.00           | 0.199                                       | 1.000                       | 0.199                 |
| LTE Band 4      | 5.80               | 24.00               | 29.8               | 0.95             | 954.99            | 0.190                                       | 1.000                       | 0.190                 |
| LTE Band 5      | 3.60               | 24.00               | 27.6               | 0.58             | 575.44            | 0.115                                       | 0.549                       | 0.209                 |
| LTE Band 7      | 7.00               | 24.00               | 31.0               | 1.26             | 1258.93           | 0.251                                       | 1.000                       | 0.251                 |
| LTE Band 12     | 3.20               | 24.00               | 27.2               | 0.52             | 524.81            | 0.104                                       | 0.466                       | 0.224                 |
| LTE Band 13     | 3.50               | 24.00               | 27.5               | 0.56             | 562.34            | 0.112                                       | 0.518                       | 0.216                 |
| LTE Band 14     | 3.60               | 24.00               | 27.6               | 0.58             | 575.44            | 0.115                                       | 0.525                       | 0.218                 |
| LTE Band 17     | 3.20               | 24.00               | 27.2               | 0.52             | 524.81            | 0.104                                       | 0.469                       | 0.223                 |
| LTE Band 25     | 6.00               | 24.00               | 30.0               | 1.00             | 1000.00           | 0.199                                       | 1.000                       | 0.199                 |
| LTE Band 26     | 3.60               | 24.00               | 27.6               | 0.58             | 575.44            | 0.115                                       | 0.543                       | 0.211                 |
| LTE Band 30     | -0.60              | 24.00               | 23.4               | 0.22             | 218.78            | 0.044                                       | 1.000                       | 0.044                 |
| LTE Band 38     | 7.00               | 24.00               | 31.0               | 1.26             | 1258.93           | 0.251                                       | 1.000                       | 0.251                 |
| LTE Band 41     | 5.00               | 26.00               | 31.0               | 1.26             | 1258.93           | 0.251                                       | 1.000                       | 0.251                 |
| LTE Band 42     | 3.50               | 19.50               | 23.0               | 0.20             | 199.53            | 0.040                                       | 1.000                       | 0.040                 |
| LTE Band 48     | 3.50               | 19.50               | 23.0               | 0.20             | 199.53            | 0.040                                       | 1.000                       | 0.040                 |
| LTE Band 66     | 5.80               | 24.00               | 29.8               | 0.95             | 954.99            | 0.190                                       | 1.000                       | 0.190                 |
| LTE Band 71     | 3.10               | 24.00               | 27.1               | 0.51             | 512.86            | 0.102                                       | 0.442                       | 0.231                 |
| 5G FR1 n2       | 6.00               | 24.00               | 30.0               | 1.00             | 1000.00           | 0.199                                       | 1.000                       | 0.199                 |
| 5G FR1 n12      | 3.20               | 24.00               | 27.2               | 0.52             | 524.81            | 0.104                                       | 0.466                       | 0.224                 |
| 5G FR1 n25      | 6.00               | 24.00               | 30.0               | 1.00             | 1000.00           | 0.199                                       | 1.000                       | 0.199                 |
| 5G FR1 n66      | 5.80               | 24.00               | 29.8               | 0.95             | 954.99            | 0.190                                       | 1.000                       | 0.190                 |
| WLAN2.4GHz Band | 6.0                | 17.0                | 23.0               | 0.20             | 199.53            | 0.040                                       | 1.000                       | 0.040                 |
| WLAN5GHz Band   | 6.0                | 17.0                | 23.0               | 0.20             | 199.53            | 0.040                                       | 1.000                       | 0.040                 |

**<EN-DC Simtaneous Transmission analysis with WLAN>**

| EN-DC                        |                                | WLAN<br>Power Density / Limit | $\Sigma$ (Power Density / Limit)<br>of<br>LTE + 5G NR + WLAN |
|------------------------------|--------------------------------|-------------------------------|--------------------------------------------------------------|
| LTE<br>Power Density / Limit | 5G NR<br>Power Density / Limit |                               |                                                              |
| 0.251                        | 0.224                          | 0.04                          | 0.515                                                        |

**General Note:**

1. The device support 5G FR1 NSA mode, consider colocation analysis to selected worst case LTE and 5G NR power density / limit to summation to show compliance
2.  $\Sigma$  (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for LTE + 5G NR + WLAN when EN-DC is active.
3. Considering the collocation with the three transmitters of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 3 collocated transmitters is compliant

**Conclusion:**

Based on 47 CFR §2.1091, the analysis concludes that this product when transmitting in standalone within a host device, is compliant with the FCC RF exposure requirements in mobile exposure condition, provided the conducted power and antenna gain do not exceed the limits for each given frequency band per wireless technology as follow table:

| Device | Band         | Maximum Conducted Power (dBm) | Standalone Maximum Antenna Gain (dBi) | Collocated Maximum Antenna Gain (dBi) |
|--------|--------------|-------------------------------|---------------------------------------|---------------------------------------|
| MD2000 | WCDMA Band 2 | 24.0                          | 6.0                                   | 6.0                                   |
|        | WCDMA Band 4 | 24.0                          | 6.0                                   | 5.8                                   |
|        | WCDMA Band 5 | 24.0                          | 4.0                                   | 3.6                                   |
|        | LTE Band 2   | 24.0                          | 6.0                                   | 6.0                                   |
|        | LTE Band 4   | 24.0                          | 6.0                                   | 5.8                                   |
|        | LTE Band 5   | 24.0                          | 4.0                                   | 3.6                                   |
|        | LTE Band 7   | 24.0                          | 7.0                                   | 7.0                                   |
|        | LTE Band 12  | 24.0                          | 3.2                                   | 3.2                                   |
|        | LTE Band 13  | 24.0                          | 3.5                                   | 3.5                                   |
|        | LTE Band 14  | 24.0                          | 3.6                                   | 3.6                                   |
|        | LTE Band 17  | 24.0                          | 3.2                                   | 3.2                                   |
|        | LTE Band 25  | 24.0                          | 6.0                                   | 6.0                                   |
|        | LTE Band 26  | 24.0                          | 4.0                                   | 3.6                                   |
|        | LTE Band 30  | 24.0                          | -0.6                                  | -0.6                                  |
|        | LTE Band 38  | 24.0                          | 7.0                                   | 7.0                                   |
|        | LTE Band 41  | 26.0                          | 5.0                                   | 5.0                                   |
|        | LTE Band 42  | 19.5                          | 3.5                                   | 3.5                                   |
|        | LTE Band 48  | 19.5                          | 3.5                                   | 3.5                                   |
|        | LTE Band 66  | 24.0                          | 6.0                                   | 5.8                                   |
|        | LTE Band 71  | 24.0                          | 3.1                                   | 3.1                                   |
|        | 5G FR1 n2    | 24.0                          | 6.0                                   | 6.0                                   |
|        | 5G FR1 n12   | 24.0                          | 3.2                                   | 3.2                                   |
|        | 5G FR1 n25   | 24.0                          | 6.0                                   | 6.0                                   |
|        | 5G FR1 n66   | 24.0                          | 6.0                                   | 5.8                                   |
|        | 2.4GHz WLAN  | 17.0                          | 17.0                                  | 6.0                                   |
|        | 5GHz WLAN    | 17.0                          | 13.0                                  | 6.0                                   |