

### 13. Maximum Permissible Exposure (MPE)

#### 13.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with § 2.1091 Radiofrequency radiation exposure evaluation: mobile devices of the FCC CFR 47 Rules, CFR 1.1310 (b) Radio frequency Radiation Exposure Requirement.

#### 13.2. Special Accessories

Not available for this EUT intended for grant.

#### 13.3. Equipment Modifications

Not available for this EUT intended for grant.

#### 13.4. Limitation

| Frequency Range (MHz)                               | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| 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                      |
| 1500-15000  | /                             | /                             | 1.0                                 | 30                      |

F = frequency in MHz

\* = Plane-wave equipment power density

#### 13.5. Exposure (MPE) Evaluation

The evaluation and calculation as deduces below presents only worst-case that produces highest value of the result:

Operation Configuration of the Worst-Case picked up to evaluate:

**LTE Band 2 / 4 / 13**

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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# Operation in LTE band 2 (1850 – 1910 MHz) \*Int. Antenna

BAND 2 / BW: 15M / 16QAM / RB: 1, 0

| EUT                                       |                       |       | Measurement  |             |              |            |       |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band                            | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP  | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm   | dBm   |
| LTE BAND 2<br>BW: 15M<br>16QAM<br>RB: 1,0 | 1857.5                | 18675 | V            | 18.66       | 9.95         | -4.47      | 24.14 | 33.01 |
|   |                       |       | H            | 16.26       | 9.95         | -4.47      | 21.74 | 33.01 |
|   | 1880.0                | 18900 | V            | 20.11       | 10.02        | -4.5       | 25.63 | 33.01 |
|   |                       |       | H            | 17.33       | 10.02        | -4.5       | 22.85 | 33.01 |
|   | 1902.5                | 19125 | V            | 19.34       | 10.09        | -4.54      | 24.89 | 33.01 |
|   |                       |       | H            | 16.16       | 10.08        | -4.53      | 21.71 | 33.01 |

**Power Density = EIRP\*Duty Cycle/(4πR<sup>2</sup>)**

Duty Cycle is 1 for LTE band operation and R is 20cm.

|  |            |                       |
|--|------------|-----------------------|
| EIRP   | 25.63      | (dBm)                 |
| EIRP   | 365.595    | (mW)                  |
| Duty cycle:  | 1          | (%)                   |
| Maximum Pav :  | 3.65594792 | (mW)                  |
| Prediction distance:   | 20         | (cm)                  |
| Prediction frequency:  | 1880       | (MHz)                 |
| MPE limit for uncontrolled exposure at prediction frequency: | 1.0000     | (mW/cm <sup>2</sup> ) |
| Power density at predication frequency at 20 (cm) distance   | 0.00073    | (mW/cm <sup>2</sup> ) |

## Measurement Result

The predicted power density level at 20 cm is 0.00073 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 1880MHz.

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# Operation in LTE band 4 (1710 to 1755 MHz) \*Int. Antenna

BAND 4 / BW: 10M / 16QAM / RB: 1,49

| EUT   |                       |       | Measurement  |             |              |            |       |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP  | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm   | dBm   |
| LTE<br>BAND 4<br>BW: 10M<br>16QAM<br>RB: 1,49 | 1715.0                | 20000 | V            | 16.57       | 9.5          | -4.31      | 21.76 | 30.00 |
|   |                       |       | H            | 20.54       | 9.5          | -4.31      | 25.73 | 30.00 |
|   | 1732.0                | 20175 | V            | 15.11       | 9.56         | -4.31      | 20.35 | 30.00 |
|   |                       |       | H            | 18.5        | 9.56         | -4.31      | 23.75 | 30.00 |
|   | 1750.0                | 20350 | V            | 15.61       | 9.62         | -4.33      | 20.89 | 30.00 |
|   |                       |       | H            | 19.22       | 9.62         | -4.33      | 24.51 | 30.00 |

**Power Density = EIRP\*Duty Cycle/(4πR<sup>2</sup>)**

**Duty Cycle is 1 for LTE band operation and R is 20cm.**

|  |            |                       |
|--|------------|-----------------------|
| EIRP   | 25.73      | (dBm)                 |
| EIRP   | 374.111    | (mW)                  |
| Duty cycle:  | 1          | (%)                   |
| Maximum Pav :  | 3.74110588 | (mW)                  |
| Prediction distance:   | 20         | (cm)                  |
| Prediction frequency:  | 1715       | (MHz)                 |
| MPE limit for uncontrolled exposure at prediction frequency: | 1.0000     | (mW/cm <sup>2</sup> ) |
| Power density at predication frequency at 20 (cm) distance   | 0.00074    | (mW/cm <sup>2</sup> ) |

## Measurement Result

The predicted power density level at 20 cm is 0.00074 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 1715MHz.

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# Operation in LTE band 13 (777 to 787 MHz) \* Int. Antenna

BAND 13 / BW: 5M / QPSK / RB: 1, 0

| EUT   |                       |       | Measurement  |             |              |            |       |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band                              | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP   | Limit |
|   | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm   | dBm   |
| LTE<br>BAND 13<br>BW: 5M<br>QPSK<br>RB: 1,0 | 779.5                 | 23205 | V            | 13.16       | 3.27         | -2.91      | 13.52 | 34.77 |
|   |                       |       | H            | 19.78       | 3.28         | -2.91      | 20.15 | 34.77 |
|   | 782.0                 | 23230 | V            | 14.25       | 3.29         | -2.91      | 14.63 | 34.77 |
|   |                       |       | H            | 21.33       | 3.29         | -2.91      | 21.71 | 34.77 |
|   | 784.5                 | 23255 | V            | 12.17       | 3.29         | -2.91      | 12.55 | 34.77 |
|   |                       |       | H            | 19.9        | 3.29         | -2.91      | 20.29 | 34.77 |

$$\text{Power Density} = \text{EIRP} \cdot \text{Duty Cycle} / (4\pi R^2)$$

Duty Cycle is 1 for LTE band operation and R is 20cm.

|  |            |                       |
|--|------------|-----------------------|
| ERP  | 21.71      | (dBm)                 |
| ERP  | 148.252    | (mW)                  |
| Duty cycle:  | 1          | (%)                   |
| Maximum Pav :  | 1.48251809 | (mW)                  |
| Prediction distance:   | 20         | (cm)                  |
| Prediction frequency:  | 782        | (MHz)                 |
| MPE limit for uncontrolled exposure at prediction frequency: | 0.5213     | (mW/cm <sup>2</sup> ) |
| Power density at predication frequency at 20 (cm) distance   | 0.00030    | (mW/cm <sup>2</sup> ) |

## Measurement Result

The predicted power density level at 20 cm is 0.0003 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 0.5213 mW/cm<sup>2</sup> at 782MHz.

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# Operation in LTE band 2 (1850 – 1910 MHz) \*Ext. Antenna

BAND 2 / BW: 15M / QPSK / RB: 1, 0

| EUT   |                       |       | Measurement  |             |              |            |       |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band                              | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP  | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm   | dBm   |
| LTE<br>BAND 2<br>BW: 15M<br>QPSK<br>RB: 1,0 | 1857.5                | 18675 | V            | 11.45       | 9.95         | -4.47      | 16.93 | 33.01 |
|   |                       |       | H            | 20.1        | 9.95         | -4.47      | 25.59 | 33.01 |
|   | 1880.0                | 18900 | V            | 11.97       | 10.02        | -4.5       | 17.49 | 33.01 |
|   |                       |       | H            | 21.06       | 10.02        | -4.5       | 26.58 | 33.01 |
|   | 1902.5                | 19125 | V            | 11.23       | 10.09        | -4.54      | 16.79 | 33.01 |
|   |                       |       | H            | 20.31       | 10.08        | -4.53      | 25.86 | 33.01 |

$$\text{Power Density} = \text{EIRP} \times \text{Duty Cycle} / (4\pi R^2)$$

Duty Cycle is 1 for LTE band operation and R is 20cm.

|  |           |                       |
|--|-----------|-----------------------|
| EIRP   | 26.58     | (dBm)                 |
| EIRP   | 454.988   | (mW)                  |
| Duty cycle:  | 1         | (%)                   |
| Maximum Pav :  | 4.5498806 | (mW)                  |
| Prediction distance:   | 20        | (cm)                  |
| Prediction frequency:  | 1880      | (MHz)                 |
| MPE limit for uncontrolled exposure at prediction frequency: | 1.0000    | (mW/cm <sup>2</sup> ) |
| Power density at predication frequency at 20 (cm) distance   | 0.00091   | (mW/cm <sup>2</sup> ) |

## Measurement Result

The predicted power density level at 20 cm is 0.00091 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 1880MHz.

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# Operation in LTE band 4 (1710 to 1755 MHz) \*Ext. Antenna

BAND 4 / BW: 20M / 16QAM / RB: 1, 0

| EUT  |                       |       | Measurement  |             |              |            |       |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band                               | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP  | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm   | dBm   |
| LTE<br>BAND 4<br>BW: 20M<br>16QAM<br>RB: 1,0 | 1720.0                | 20050 | V            | 22.58       | 9.48         | -4.31      | 27.75 | 30.00 |
|  |                       |       | H            | 15.3        | 9.49         | -4.31      | 20.48 | 30.00 |
|  | 1732.5                | 20175 | V            | 23.54       | 9.53         | -4.31      | 28.76 | 30.00 |
|  |                       |       | H            | 15.68       | 9.53         | -4.31      | 20.9  | 30.00 |
|  | 1745.0                | 20300 | V            | 21.38       | 9.57         | -4.31      | 26.64 | 30.00 |
|  |                       |       | H            | 14.08       | 9.57         | -4.31      | 19.34 | 30.00 |

$$\text{Power Density} = \text{EIRP} \times \text{Duty Cycle} / (4\pi R^2)$$

Duty Cycle is 1 for LTE band operation and R is 20cm.

|  |            |                       |
|--|------------|-----------------------|
| EIRP   | 28.76      | (dBm)                 |
| EIRP   | 751.623    | (mW)                  |
| Duty cycle:  | 1          | (%)                   |
| Maximum Pav :  | 7.51622894 | (mW)                  |
| Prediction distance:   | 20         | (cm)                  |
| Prediction frequency:  | 1832.5     | (MHz)                 |
| MPE limit for uncontrolled exposure at prediction frequency: | 1.0000     | (mW/cm <sup>2</sup> ) |
| Power density at predication frequency at 20 (cm) distance   | 0.00150    | (mW/cm <sup>2</sup> ) |

## Measurement Result

The predicted power density level at 20 cm is 0.0015 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 1832.5MHz.

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# Operation in LTE band 13 (777 to 787 MHz) \*Ext. Antenna

BAND 13 / BW: 5M / QPSK / RB: 1, 0

| EUT                                      |                       |       | Measurement  |             |              |            |       |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band                           | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP   | Limit |
|  | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm   | dBm   |
| LTE BAND 13<br>BW: 5M<br>QPSK<br>RB: 1,0 | 779.5                 | 23205 | V            | 14.35       | 3.27         | -2.91      | 14.71 | 34.77 |
|  |                       |       | H            | 21.18       | 3.28         | -2.91      | 21.55 | 34.77 |
|  | 782.0                 | 23230 | V            | 15.61       | 3.29         | -2.91      | 15.99 | 34.77 |
|  |                       |       | H            | 23.16       | 3.29         | -2.91      | 23.54 | 34.77 |
|  | 784.5                 | 23255 | V            | 14.17       | 3.29         | -2.91      | 14.55 | 34.77 |
|  |                       |       | H            | 20.92       | 3.29         | -2.91      | 21.3  | 34.77 |

$$\text{Power Density} = \text{EIRP} \times \text{Duty Cycle} / (4\pi R^2)$$

Duty Cycle is 1 for LTE band operation and R is 20cm.

|  |            |                       |
|--|------------|-----------------------|
| ERP  | 23.54      | (dBm)                 |
| ERP  | 225.944    | (mW)                  |
| Duty cycle:  | 1          | (%)                   |
| Maximum Pav :  | 2.25943577 | (mW)                  |
| Prediction distance:   | 20         | (cm)                  |
| Prediction frequency:  | 782        | (MHz)                 |
| MPE limit for uncontrolled exposure at prediction frequency: | 0.5213     | (mW/cm <sup>2</sup> ) |
| Power density at predication frequency at 20 (cm) distance   | 0.00045    | (mW/cm <sup>2</sup> ) |

## Measurement Result

The predicted power density level at 20 cm is 0.00045 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 0.5213 mW/cm<sup>2</sup> at 782MHz.

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SGS Taiwan Ltd.

No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

[www.tw.sgs.com](http://www.tw.sgs.com)

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