

## RADIO FREQUENCY EXPOSURE

### Limit

According to §1.1310 and §2.1091 RF exposure is calculated.

**Table: Limits for General Population/Uncontrolled Exposure**

| Frequency Range<br>(MHz) | Power Density (S)<br>(mW/cm <sup>2</sup> ) |
|--------------------------|--------------------------------------------|
| 0.3–1.34                 | *(100)                                     |
| 1.34–30                  | *(180/f <sup>2</sup> )                     |
| 30–300                   | 0.2                                        |
| 300–1500                 | f/1500                                     |
| 1500–100,000             | 1.0                                        |

F = frequency in MHz

\* = Plane-wave equivalent power density

### Maximum Permissible Exposure

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

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna.

Note:

1. Manufacturer declared that the maximum antenna gain is 1.2dBi(Max.) for 2402-2480MHz, 2412~2462MHz and 5150.00~5250.00MHz/5745.00~5825.00MHz separately.
2. Manufacturer declared that the nearest distance between human and the EUT is 20cm.
3. Only record worst case data.

## Conducted Power Results:

### Bluetooth

| Mode           | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|----------------|---------|-----------------|-----------------------------------|
| GFSK           | 00      | 2402            | 3.24                              |
|                | 40      | 2441            | 3.12                              |
|                | 78      | 2480            | 3.16                              |
| $\pi/4$ -DQPSK | 00      | 2402            | 1.49                              |
|                | 40      | 2441            | 2.15                              |
|                | 78      | 2480            | 2.01                              |
| 8-DPSK         | 00      | 2402            | 2.10                              |
|                | 40      | 2441            | 2.36                              |
|                | 78      | 2480            | 2.15                              |
| BLE            | 0       | 2402            | -0.554                            |
|                | 19      | 2440            | 0.238                             |
|                | 39      | 2480            | -0.847                            |

### 2.4GHz WLAN

| 2.4GHz WLAN IEEE 802.11b   |           |       |       |           |       |       |
|----------------------------|-----------|-------|-------|-----------|-------|-------|
| Frequency (MHz)            | Antenna 0 |       |       | Antenna 1 |       |       |
|                            | 2412      | 2437  | 2462  | 2412      | 2437  | 2462  |
| Peak Conducted Power (dBm) | 15.28     | 15.44 | 15.39 | 15.02     | 15.21 | 15.43 |
| 2.4GHz WLAN IEEE 802.11g   |           |       |       |           |       |       |
| Frequency (MHz)            | Antenna 0 |       |       | Antenna 1 |       |       |
|                            | 2412      | 2437  | 2462  | 2412      | 2437  | 2462  |
| Peak Conducted Power (dBm) | 14.07     | 14.11 | 14.20 | 14.41     | 14.27 | 14.15 |
| 2.4GHz WLAN IEEE 802.11n20 |           |       |       |           |       |       |
| Frequency (MHz)            | Antenna 0 |       |       | Antenna 1 |       |       |
|                            | 2412      | 2437  | 2462  | 2412      | 2437  | 2462  |
| Peak Conducted Power (dBm) | 13.51     | 13.67 | 13.65 | 13.63     | 13.80 | 14.07 |
| 2.4GHz WLAN IEEE 802.11n40 |           |       |       |           |       |       |
| Frequency (MHz)            | Antenna 0 |       |       | Antenna 1 |       |       |
|                            | 2422      | 2437  | 2452  | 2422      | 2437  | 2452  |
| Peak Conducted Power (dBm) | 12.45     | 12.61 | 12.69 | 13.02     | 13.10 | 13.25 |

**5GHz WLAN**

| 5.2GHz WLAN IEEE 802.11a         |           |       |       |           |       |       |
|----------------------------------|-----------|-------|-------|-----------|-------|-------|
| Frequency<br>(MHz)               | Antenna 0 |       |       | Antenna 1 |       |       |
|                                  | 5180      | 5220  | 5240  | 5180      | 5220  | 5240  |
| Peak Conducted<br>Power<br>(dBm) | 13.15     | 13.18 | 13.19 | 13.42     | 13.43 | 13.47 |
| 5GHz WLAN IEEE 802.11n HT20      |           |       |       |           |       |       |
| Frequency<br>(MHz)               | Antenna 0 |       |       | Antenna 1 |       |       |
|                                  | 5180      | 5220  | 5240  | 5180      | 5220  | 5240  |
| Peak Conducted<br>Power<br>(dBm) | 12.33     | 12.45 | 12.33 | 12.74     | 12.72 | 12.78 |
| 5GHz WLAN IEEE 802.11n HT40      |           |       |       |           |       |       |
| Frequency<br>(MHz)               | Antenna 0 |       |       | Antenna 1 |       |       |
|                                  | 5190      | /     | 5230  | 5190      | /     | 5230  |
| Peak Conducted<br>Power<br>(dBm) | 12.85     | /     | 12.78 | 12.56     | /     | 12.76 |

| 5.8GHz WLAN IEEE 802.11a         |           |       |       |           |       |       |
|----------------------------------|-----------|-------|-------|-----------|-------|-------|
| Frequency<br>(MHz)               | Antenna 0 |       |       | Antenna 1 |       |       |
|                                  | 5745      | 5785  | 5825  | 5745      | 5785  | 5825  |
| Peak Conducted<br>Power<br>(dBm) | 13.01     | 13.12 | 13.09 | 13.42     | 13.56 | 13.68 |
| 5GHz WLAN IEEE 802.11n HT20      |           |       |       |           |       |       |
| Frequency<br>(MHz)               | Antenna 0 |       |       | Antenna 1 |       |       |
|                                  | 5745      | 5785  | 5825  | 5745      | 5785  | 5825  |
| Peak Conducted<br>Power<br>(dBm) | 12.57     | 12.41 | 12.45 | 12.82     | 12.58 | 12.80 |
| 5GHz WLAN IEEE 802.11n HT40      |           |       |       |           |       |       |
| Frequency<br>(MHz)               | Antenna 0 |       |       | Antenna 1 |       |       |
|                                  | 5755      | /     | 5795  | 5755      | /     | 5795  |
| Peak Conducted<br>Power<br>(dBm) | 12.20     | /     | 12.15 | 12.39     | /     | 12.81 |

**Manufacturing tolerance:****Manufacturing tolerance:****Bluetooth4.0(DSS)**

| Mode          | Channel | Frequency (MHz) | Conducted Output<br>Tune-up<br>Tolerance(Peak)<br>(dBm) |
|---------------|---------|-----------------|---------------------------------------------------------|
| GFSK          | 00      | 2402            | $3.0 \pm 1.0$                                           |
|               | 39      | 2441            | $3.0 \pm 1.0$                                           |
|               | 78      | 2480            | $3.0 \pm 1.0$                                           |
| $\pi/4$ DQPSK | 00      | 2402            | $2.0 \pm 1.0$                                           |
|               | 39      | 2441            | $2.0 \pm 1.0$                                           |
|               | 78      | 2480            | $2.0 \pm 1.0$                                           |
| 8-DPSK        | 00      | 2402            | $2.0 \pm 1.0$                                           |
|               | 39      | 2441            | $2.0 \pm 1.0$                                           |
|               | 78      | 2480            | $2.0 \pm 1.0$                                           |

**Bluetooth4.0(DTS)**

| Mode | Channel | Frequency (MHz) | Conducted Output<br>Tune-up<br>Tolerance(Peak)<br>(dBm) |
|------|---------|-----------------|---------------------------------------------------------|
| GFSK | 00      | 2402            | $0 \pm 1.0$                                             |
|      | 39      | 2440            | $0 \pm 1.0$                                             |
|      | 78      | 2480            | $0 \pm 1.0$                                             |

**2.4GWLAN**

| Mode            | Channel | Frequency (MHz) | Conducted Output<br>Tune-up<br>Tolerance(Peak)<br>(dBm) |
|-----------------|---------|-----------------|---------------------------------------------------------|
| 802.11b         | 01      | 2412            | $16.0 \pm 2.0$                                          |
|                 | 06      | 2437            | $16.0 \pm 2.0$                                          |
|                 | 11      | 2462            | $16.0 \pm 2.0$                                          |
| 802.11g         | 01      | 2412            | $15.0 \pm 2.0$                                          |
|                 | 06      | 2437            | $15.0 \pm 2.0$                                          |
|                 | 11      | 2462            | $15.0 \pm 2.0$                                          |
| 802.11n<br>HT20 | 01      | 2412            | $14.0 \pm 2.0$                                          |
|                 | 06      | 2437            | $14.0 \pm 2.0$                                          |
|                 | 11      | 2462            | $14.0 \pm 2.0$                                          |
| 802.11n<br>HT40 | 03      | 2422            | $14.0 \pm 2.0$                                          |
|                 | 06      | 2437            | $14.0 \pm 2.0$                                          |
|                 | 09      | 2452            | $14.0 \pm 2.0$                                          |

**5.2GWLAN**

| Mode            | Channel | Frequency (MHz) | Conducted Output<br>Tune-up<br>Tolerance(Peak)<br>(dBm) |
|-----------------|---------|-----------------|---------------------------------------------------------|
| 802.11a         | 36      | 5180            | 14.0 ± 2.0                                              |
|                 | 44      | 5220            | 14.0 ± 2.0                                              |
|                 | 48      | 5240            | 14.0 ± 2.0                                              |
| 802.11n<br>HT20 | 36      | 5180            | 13.0 ± 2.0                                              |
|                 | 44      | 5220            | 13.0 ± 2.0                                              |
|                 | 48      | 5240            | 13.0 ± 2.0                                              |
| 802.11n<br>HT40 | 38      | 5190            | 13.0 ± 2.0                                              |
|                 | 46      | 5230            | 13.0 ± 2.0                                              |

**5.8GWLAN**

| Mode            | Channel | Frequency (MHz) | Conducted Output<br>Tune-up<br>Tolerance(Peak)<br>(dBm) |
|-----------------|---------|-----------------|---------------------------------------------------------|
| 802.11a         | 149     | 5745            | 14.0 ± 2.0                                              |
|                 | 157     | 5785            | 14.0 ± 2.0                                              |
|                 | 165     | 5825            | 14.0 ± 2.0                                              |
| 802.11n<br>HT20 | 149     | 5745            | 13.0 ± 2.0                                              |
|                 | 157     | 5785            | 13.0 ± 2.0                                              |
|                 | 165     | 5825            | 13.0 ± 2.0                                              |
| 802.11n<br>HT40 | 151     | 5755            | 13.0 ± 2.0                                              |
|                 | 159     | 5795            | 13.0 ± 2.0                                              |

## Evaluation Results

### Standalone MPE

BT

| Band/Mode | f (GHz) | ANT<br>Max.<br>Tune Up<br>Power<br>(dBm) | ANT<br>Max.<br>Tune Up<br>Power<br>(mW) | ANT<br>MPE<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|-----------|---------|------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
| GFSK      | 2.402   | 3.0 ± 1.0                                | 2.5119                                  | 0.0007                              | 1.0                            |
|           | 2.441   | 3.0 ± 1.0                                | 2.5119                                  | 0.0007                              | 1.0                            |
|           | 2.480   | 3.0 ± 1.0                                | 2.5119                                  | 0.0007                              | 1.0                            |
| π/4-DQPSK | 2.402   | 2.0 ± 1.0                                | 1.9953                                  | 0.0005                              | 1.0                            |
|           | 2.441   | 2.0 ± 1.0                                | 1.9953                                  | 0.0005                              | 1.0                            |
|           | 2.480   | 2.0 ± 1.0                                | 1.9953                                  | 0.0005                              | 1.0                            |
| 8-DPSK    | 2.402   | 2.0 ± 1.0                                | 1.9953                                  | 0.0005                              | 1.0                            |
|           | 2.441   | 2.0 ± 1.0                                | 1.9953                                  | 0.0005                              | 1.0                            |
|           | 2.480   | 2.0 ± 1.0                                | 1.9953                                  | 0.0005                              | 1.0                            |
| BLE       | 2.402   | 3.0 ± 1.0                                | 2.5119                                  | 0.0007                              | 1.0                            |
|           | 2.440   | 3.0 ± 1.0                                | 2.5119                                  | 0.0007                              | 1.0                            |
|           | 2.480   | 3.0 ± 1.0                                | 2.5119                                  | 0.0007                              | 1.0                            |

2.4G WIFI:

| Test    | Mode    | Channel | ANT<br>Max.<br>Tune Up<br>Power<br>(dBm) | ANT<br>Max.<br>Tune Up<br>Power<br>(mW) | ANT<br>MPE<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|---------|---------|---------|------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
| 802.11b | Chain 0 | 1       | 16.0 ± 2.0                               | 63.0957                                 | 0.0166                              | 1.0                            |
|         |         | 6       | 16.0 ± 2.0                               | 63.0957                                 | 0.0166                              | 1.0                            |
|         |         | 11      | 16.0 ± 2.0                               | 63.0957                                 | 0.0166                              | 1.0                            |
|         | Chain 1 | 1       | 16.0 ± 2.0                               | 63.0957                                 | 0.0166                              | 1.0                            |
|         |         | 6       | 16.0 ± 2.0                               | 63.0957                                 | 0.0166                              | 1.0                            |
|         |         | 11      | 16.0 ± 2.0                               | 63.0957                                 | 0.0166                              | 1.0                            |

| Test    | Mode    | Channel | ANT<br>Max.<br>Tune Up<br>Power<br>(dBm) | ANT<br>Max.<br>Tune Up<br>Power<br>(mW) | ANT<br>MPE<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|---------|---------|---------|------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
| 802.11g | Chain 0 | 1       | 15.0 ± 2.0                               | 50.1187                                 | 0.0132                              | 1.0                            |
|         |         | 6       | 15.0 ± 2.0                               | 50.1187                                 | 0.0132                              | 1.0                            |
|         |         | 11      | 15.0 ± 2.0                               | 50.1187                                 | 0.0132                              | 1.0                            |
|         | Chain 1 | 1       | 15.0 ± 2.0                               | 50.1187                                 | 0.0132                              | 1.0                            |
|         |         | 6       | 15.0 ± 2.0                               | 50.1187                                 | 0.0132                              | 1.0                            |
|         |         | 11      | 15.0 ± 2.0                               | 50.1187                                 | 0.0132                              | 1.0                            |

| Test      | Mode    | Channel | ANT<br>Max.<br>Tune Up<br>Power<br>(dBm) | ANT<br>Max.<br>Tune Up<br>Power<br>(mW) | ANT<br>MPE<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|-----------|---------|---------|------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
| 802.11n20 | Chain 0 | 1       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           |         | 6       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           |         | 11      | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           | Chain 1 | 1       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           |         | 6       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           |         | 11      | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |

| Test      | Mode    | Channel | ANT<br>Max.<br>Tune Up<br>Power<br>(dBm) | ANT<br>Max.<br>Tune Up<br>Power<br>(mW) | ANT<br>MPE<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|-----------|---------|---------|------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
| 802.11n40 | Chain 0 | 3       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           |         | 6       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           |         | 9       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           | Chain 1 | 3       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           |         | 6       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|           |         | 9       | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |

## 5G WIFI

| Test    | Mode    | Channel | ANT<br>Max.<br>Tune Up<br>Power<br>(dBm) | ANT<br>Max.<br>Tune Up<br>Power<br>(mW) | ANT<br>MPE<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|---------|---------|---------|------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
| 802.11a | Chain 0 | 36      | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 40      | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 48      | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 149     | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 157     | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 165     | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         | Chain 1 | 36      | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 40      | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 48      | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 149     | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 157     | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |
|         |         | 165     | 14.0 ± 2.0                               | 39.8107                                 | 0.0104                              | 1.0                            |

| Test      | Mode    | Channel | ANT<br>Max.<br>Tune Up<br>Power<br>(dBm) | ANT<br>Max.<br>Tune Up<br>Power<br>(mW) | ANT<br>MPE<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|-----------|---------|---------|------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
| 802.11n20 | Chain 0 | 36      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 40      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 48      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 149     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 157     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 165     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           | Chain 1 | 36      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 40      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 48      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 149     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 157     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 165     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |

| Test      | Mode    | Channel | ANT<br>Max.<br>Tune Up<br>Power<br>(dBm) | ANT<br>Max.<br>Tune Up<br>Power<br>(mW) | ANT<br>MPE<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) |
|-----------|---------|---------|------------------------------------------|-----------------------------------------|-------------------------------------|--------------------------------|
| 802.11n40 | Chain 0 | 38      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 46      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 151     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 159     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           | Chain 1 | 38      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 46      | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 151     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |
|           |         | 159     | 13.0 ± 2.0                               | 31.6228                                 | 0.0083                              | 1.0                            |

#### Simultaneous transmission MPE

According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

$\sum$  of MPE ratios  $\leq 1.0$

#### 2.4G WIFI:

| Mode                     | Channel No. | Frequency<br>(MHz) | $\sum$ MPE ratios | Limit | Results |
|--------------------------|-------------|--------------------|-------------------|-------|---------|
| Chain 0+Chain 1+ Chain 2 |             |                    |                   |       |         |
| IEEE 802.11b             | 1           | 2412               | N/A               | 1.000 | Pass    |
|                          | 6           | 2442               | N/A               | 1.000 | Pass    |
|                          | 11          | 2462               | N/A               | 1.000 | Pass    |
| IEEE 802.11g             | 1           | 2412               | N/A               | 1.000 | Pass    |
|                          | 6           | 2442               | N/A               | 1.000 | Pass    |
|                          | 11          | 2462               | N/A               | 1.000 | Pass    |
| IEEE 802.11n<br>HT20     | 1           | 2412               | 0.0208            | 1.000 | Pass    |
|                          | 6           | 2442               | 0.0208            | 1.000 | Pass    |
|                          | 11          | 2462               | 0.0208            | 1.000 | Pass    |
| IEEE 802.11n<br>HT40     | 3           | 2422               | 0.0208            | 1.000 | Pass    |
|                          | 6           | 2442               | 0.0208            | 1.000 | Pass    |
|                          | 9           | 2452               | 0.0208            | 1.000 | Pass    |

## 5G WIFI:

| Mode            | Channel No. | Frequency (MHz) | $\Sigma$ MPE ratios | Limit | Results |
|-----------------|-------------|-----------------|---------------------|-------|---------|
| Chain 0+Chain 1 |             |                 |                     |       |         |
| IEEE 802.11a    | 36          | 5180            | N/A                 | 1.000 | Pass    |
|                 | 40          | 5200            | N/A                 | 1.000 | Pass    |
|                 | 48          | 5240            | N/A                 | 1.000 | Pass    |
|                 | 149         | 5745            | N/A                 | 1.000 | Pass    |
|                 | 157         | 5785            | N/A                 | 1.000 | Pass    |
|                 | 165         | 5825            | N/A                 | 1.000 | Pass    |
| IEEE 802.11n20  | 36          | 5180            | 0.0166              | 1.000 | Pass    |
|                 | 40          | 5200            | 0.0166              | 1.000 | Pass    |
|                 | 48          | 5240            | 0.0166              | 1.000 | Pass    |
|                 | 149         | 5745            | 0.0166              | 1.000 | Pass    |
|                 | 157         | 5785            | 0.0166              | 1.000 | Pass    |
|                 | 165         | 5825            | 0.0166              | 1.000 | Pass    |
| IEEE 802.11n40  | 38          | 5190            | 0.0166              | 1.000 | Pass    |
|                 | 46          | 5230            | 0.0166              | 1.000 | Pass    |
|                 | 151         | 5755            | 0.0166              | 1.000 | Pass    |
|                 | 159         | 5795            | 0.0166              | 1.000 | Pass    |

**Maximum Simultaneous transmission MPE Ratio for BT and 2.4GWIFI**

| Maximum MPE ratio<br>BT | Maximum MPE ratio<br>2.4GWLAN | $\Sigma$ MPE ratios | Limit | Results |
|-------------------------|-------------------------------|---------------------|-------|---------|
| 0.0007                  | 0.0208                        | 0.0215              | 1.000 | Pass    |

**Maximum Simultaneous transmission MPE Ratio for BT and 5GWIFI**

| Maximum MPE ratio<br>BT | Maximum MPE ratio<br>5GWLAN | $\Sigma$ MPE ratios | Limit | Results |
|-------------------------|-----------------------------|---------------------|-------|---------|
| 0.0007                  | 0.0166                      | 0.0173              | 1.000 | Pass    |

Note: 1)The estimation distance is 20cm

2) 2.4GWIFI and 5GWIFI share the same antennas and can not transmit Simultaneously.

**Conclusion**

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

.....THE END OF REPORT.....