

## RF Exposure Evaluation Report

**Report Reference No.**..... : **MTEB24050284-H**

**FCC ID**..... : **A4C-10017A**

Compiled by

( position+printed name+signature)..: File administrators Alisa Luo



Supervised by

( position+printed name+signature)..: Test Engineer Sunny Deng



Approved by

( position+printed name+signature)..: Manager Yvette Zhou



Date of issue..... : **May 29, 2024**

**Representative Laboratory Name.** : **Shenzhen Most Technology Service Co., Ltd.**

Address..... : No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name**..... : **RM ACQUISITIONS LLC**

Address..... : 1100 West Idaho Street SUITE 310, Boise, Idaho. 83702.

**Test specification/ Standard**..... : **47 CFR Part 1.1307; 47 CFR Part 1.1310**  
**KDB447498D01 General RF Exposure Guidance v06**

TRF Originator..... : Shenzhen Most Technology Service Co., Ltd.

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**Test item description**..... : GPS navigator

Trade Mark..... : **RAND M: NALLY**

Model/Type reference..... : RandTab6

Listed Models ..... : N/A

Modulation Type..... : GFSK  
GFSK,  $\pi/4$ DQPSK, 8DPSK  
b: DSSS, CCK g/n: BPSK, QPSK, QAM  
OFDM

Operation Frequency..... : BT: From 2402MHz to 2480MHz  
WIFI 2.4G: From 2412MHz to 2462MHz  
WIFI 5G: From 5180MHz-5240MHz  
From 5260MHz-5320MHz  
From 5500MHz-5720MHz  
From 5745MHz-5825MHz

Hardware Version..... : RANDTAB6-MAIN-V01A-1

Software Version..... : RandTab6-userdebug 13 TP1A.20220624.014  
RandTab6\_mp\_240429\_66 release-keys

Rating..... : DC 3.7V (by Battery)  
DC 5V (by USB Port)  
DC 5V (by Car Charger)

Result..... : **PASS**

TEST REPORT

Equipment under Test : GPS navigator

Model /Type : RandTab6

Listed Models : N/A

Remark : N/A

Applicant : RM ACQUISITIONS LLC

Address : 1100 West Idaho Street SUITE 310, Boise, Idaho. 83702.

Manufacturer : SHEN ZHEN APICAL TECHNOLOGY CO., LTD

Address : 9/F,B Building, Tinghua Unis Infoport, Langshan RD, North district, Hi-tech Industrial Park, Nanshan, Shenzhen

|              |      |
|--------------|------|
| Test Result: | PASS |
|--------------|------|

The test report merely corresponds to the test sample.  
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

| Revision | Issue Date | Revisions     | Revised By |
|----------|------------|---------------|------------|
| 00       | 2024-05-29 | Initial Issue | Alisa Luo  |
|          |            |               |            |
|          |            |               |            |

## 2. SAR Evaluation

### 2.1 RF Exposure Compliance Requirement

#### 2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 2.1.2 Limits

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—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> ) | 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                       |

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

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.

## 2.1.3 EUT RF Exposure

Antenna Gain: 2.3dBi  
BT classic

| GFSK             |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(2402MHz)  | 2.133                   | $2.133 \pm 1$           | 3.133                 |
| Middle(2441MHz)  | 2.558                   | $2.558 \pm 1$           | 3.558                 |
| Highest(2480MHz) | 2.493                   | $2.493 \pm 1$           | 3.493                 |

| $\pi/4$ DQPSK    |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(2402MHz)  | 3.017                   | $3.017 \pm 1$           | 4.017                 |
| Middle(2441MHz)  | 3.406                   | $3.406 \pm 1$           | 4.406                 |
| Highest(2480MHz) | 3.356                   | $3.356 \pm 1$           | 4.356                 |

| 8DPSK            |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(2402MHz)  | 3.174                   | $3.174 \pm 1$           | 4.174                 |
| Middle(2441MHz)  | 3.668                   | $3.668 \pm 1$           | 4.668                 |
| Highest(2480MHz) | 3.651                   | $3.651 \pm 1$           | 4.651                 |

| Worst case: 8DPSK |                                           |                                          |                    |                                                  |       |        |
|-------------------|-------------------------------------------|------------------------------------------|--------------------|--------------------------------------------------|-------|--------|
| Channel           | Maximum Peak Conducted Output Power (dBm) | Maximum Peak Conducted Output Power (MW) | Antenna Gain (dBi) | Power Density at R = 20 cm (mW/cm <sup>2</sup> ) | Limit | Result |
| Middle(2441MHz)   | 4.668                                     | 2.93                                     | 2.3                | 0.0009                                           | 1.0   | Pass   |

Note: 1) Refer to report **MTEB24050284-R3** for EUT test Max Conducted average Output Power value.

Note: 2)  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (2.93 \cdot 1.69) / (4 \cdot 3.1416 \cdot 20^2) = 0.0009$

Note: 3) EUT's Bluetooth module is more than 20cm away from the human body.

Antenna gain: 2.73dBi  
WIFI 2.4G

| 802.11b          |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2412MHz)  | 12.74                      | $12.74 \pm 1$              | 13.74                 |
| Middle(2437MHz)  | 12.87                      | $12.87 \pm 1$              | 13.87                 |
| Highest(2462MHz) | 13.31                      | $13.31 \pm 1$              | 13.31                 |

| 802.11g          |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2412MHz)  | 14.80                      | $14.80 \pm 1$              | 15.80                 |
| Middle(2437MHz)  | 14.87                      | $14.87 \pm 1$              | 15.87                 |
| Highest(2462MHz) | 15.35                      | $15.35 \pm 1$              | 16.35                 |

| 802.11n(H20)     |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2412MHz)  | 14.30                      | $14.30 \pm 1$              | 15.30                 |
| Middle(2437MHz)  | 14.23                      | $14.23 \pm 1$              | 15.23                 |
| Highest(2462MHz) | 14.77                      | $14.77 \pm 1$              | 15.77                 |

| 802.11n(H40)     |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(2422MHz)  | 14.08                      | $14.08 \pm 1$              | 15.08                 |
| Middle(2437MHz)  | 14.38                      | $14.38 \pm 1$              | 15.38                 |
| Highest(2452MHz) | 14.47                      | $14.47 \pm 1$              | 15.47                 |

## WIFI 2.4G

| Worst case: 802.11g |                                   |                                  |                       |                                                              |       |        |
|---------------------|-----------------------------------|----------------------------------|-----------------------|--------------------------------------------------------------|-------|--------|
| Channel             | Maximum<br>tune-up Power<br>(dBm) | Maximum tune-up<br>Power<br>(MW) | Antenna Gain<br>(dBi) | Power<br>Density<br>at R = 20<br>cm<br>(mW/cm <sup>2</sup> ) | Limit | Result |
| Lowest(2412MHz)     | 16.35                             | 43.15                            | 2.73                  | 0.016                                                        | 1.0   | Pass   |

Note: 1) Refer to report **MTEB24050284-R2** for EUT test Max Conducted average Output Power value.

Note: 2)  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (43.15 \cdot 1.87) / (4 \cdot 3.1416 \cdot 20^2) = 0.016$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

Antenna gain: 3.47dBi

## WIFI 5G U-NII 1

| IEEE for 802.11a |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(5180MHz)  | 9.967                      | 9.967±1                    | 10.967                |
| Middle(5200MHz)  | 10.200                     | 10.200±1                   | 10.200                |
| Highest(5240MHz) | 11.986                     | 11.986±1                   | 12.986                |

| IEEE for 802.11n(HT20) |                            |                            |                       |
|------------------------|----------------------------|----------------------------|-----------------------|
| Test channel           | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                        |                            |                            | (dBm)                 |
| Lowest(5180MHz)        | 9.660                      | 9.660±1                    | 10.660                |
| Middle(5200MHz)        | 9.842                      | 9.842±1                    | 10.842                |
| Highest(5240MHz)       | 11.350                     | 11.350 ± 1                 | 12.350                |

| IEEE for 802.11n(HT40) |                            |                            |                       |
|------------------------|----------------------------|----------------------------|-----------------------|
| Test channel           | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                        |                            |                            | (dBm)                 |
| Lowest(5190MHz)        | 3.487                      | 3.487±1                    | 4.487                 |
| Highest(5230MHz)       | 8.813                      | 8.813 ± 1                  | 9.813                 |

| IEEE for 802.11ac(HT20) |                            |                            |                       |
|-------------------------|----------------------------|----------------------------|-----------------------|
| Test channel            | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                         |                            |                            | (dBm)                 |
| Lowest(5180MHz)         | 9.681                      | 9.681±1                    | 10.681                |
| Middle(5200MHz)         | 9.978                      | 9.978±1                    | 10.978                |
| Highest(5240MHz)        | 11.563                     | 11.563±1                   | 11.563                |



| IEEE for 802.11 ac(HT40) |                            |                            |                       |
|--------------------------|----------------------------|----------------------------|-----------------------|
| Test channel             | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                          |                            |                            | (dBm)                 |
| Lowest(5190MHz)          | 3.546                      | 3.546±1                    | 4.546                 |
| Highest(5230MHz)         | 9.047                      | 9.047±1                    | 10.047                |

| IEEE for 802.11ac(HT80) |                            |                            |                       |
|-------------------------|----------------------------|----------------------------|-----------------------|
| Test channel            | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                         |                            |                            | (dBm)                 |
| (5210MHz)               | 0.424                      | 0.424±1                    | 1.424                 |

| Worst case: IEEE for 802.11a |                                           |                                           |              |                               |       |        |
|------------------------------|-------------------------------------------|-------------------------------------------|--------------|-------------------------------|-------|--------|
| Channel                      | Maximum Peak<br>Conducted<br>Output Power | Maximum Peak<br>Conducted Output<br>Power | Antenna Gain | Power Density<br>at R = 20 cm | Limit | Result |
|                              | (dBm)                                     | (MW)                                      | (dBi)        | (mW/cm <sup>2</sup> )         |       |        |
| Highest<br>(5240MHz)         | 12.986                                    | 19.89                                     | 3.47         | 0.009                         | 1.0   | Pass   |

Note: 1) Refer to report **MTEB24050284-R1** for EUT test Max Conducted average Output Power value.

Note: 2)  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (19.89 \cdot 2.22) / (4 \cdot 3.1416 \cdot 20^2) = 0.009$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

Antenna gain: 3.47dBi

WIFI 5G U-NII 2A

| IEEE for 802.11a |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(5260MHz)  | 11.912                  | 11.912±1                | 12.912                |
| Middle(5280MHz)  | 11.914                  | 11.914±1                | 12.914                |
| Highest(5320MHz) | 11.122                  | 11.122±1                | 12.122                |

| IEEE for 802.11n(HT20) |                         |                         |                       |
|------------------------|-------------------------|-------------------------|-----------------------|
| Test channel           | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                        |                         |                         | (dBm)                 |
| Lowest(5260MHz)        | 11.631                  | 11.631±1                | 12.631                |
| Middle(5280MHz)        | 11.587                  | 11.587±1                | 12.587                |
| Highest(5320MHz)       | 10.681                  | 10.681 ± 1              | 11.681                |

| IEEE for 802.11n(HT40) |                         |                         |                       |
|------------------------|-------------------------|-------------------------|-----------------------|
| Test channel           | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                        |                         |                         | (dBm)                 |
| Lowest(5270MHz)        | 9.751                   | 9.751±1                 | 10.751                |
| Highest(5310MHz)       | 4.582                   | 4.582 ± 1               | 5.582                 |

| IEEE for 802.11ac(HT20) |                         |                         |                       |
|-------------------------|-------------------------|-------------------------|-----------------------|
| Test channel            | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                         |                         |                         | (dBm)                 |
| Lowest(5260MHz)         | 11.792                  | 11.792±1                | 11.792                |
| Middle(5280MHz)         | 11.679                  | 11.679±1                | 11.679                |
| Highest(5320MHz)        | 10.758                  | 10.758±1                | 11.758                |

| IEEE for 802.11 ac(HT40) |                            |                            |                       |
|--------------------------|----------------------------|----------------------------|-----------------------|
| Test channel             | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                          |                            |                            | (dBm)                 |
| Lowest(5270MHz)          | 9.715                      | 9.715±1                    | 10.715                |
| Highest(5310MHz)         | 4.742                      | 4.742±1                    | 5.742                 |

| IEEE for 802.11ac(HT80) |                            |                            |                       |
|-------------------------|----------------------------|----------------------------|-----------------------|
| Test channel            | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                         |                            |                            | (dBm)                 |
| (5290MHz)               | 1.575                      | 1.575±1                    | 2.575                 |

| Worst case: IEEE for 802.11a |                                           |                                           |              |                               |       |        |
|------------------------------|-------------------------------------------|-------------------------------------------|--------------|-------------------------------|-------|--------|
| Channel                      | Maximum Peak<br>Conducted<br>Output Power | Maximum Peak<br>Conducted Output<br>Power | Antenna Gain | Power Density<br>at R = 20 cm | Limit | Result |
|                              | (dBm)                                     | (MW)                                      | (dBi)        | (mW/cm <sup>2</sup> )         |       |        |
| Middle<br>(5300MHz)          | 12.914                                    | 19.56                                     | 3.47         | 0.009                         | 1.0   | Pass   |

Note: 1) Refer to report **MTEB24050284-R1** for EUT test Max Conducted average Output Power value.

Note: 2)  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (23.50 \cdot 2.22) / (4 \cdot 3.1416 \cdot 20^2) = 0.009$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

Antenna gain: 3.47dBi

WIFI 5G U-NII 2C

| IEEE for 802.11a |                         |                         |                       |
|------------------|-------------------------|-------------------------|-----------------------|
| Test channel     | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                  |                         |                         | (dBm)                 |
| Lowest(5500MHz)  | 11.308                  | 11.308±1                | 12.308                |
| Middle(5600MHz)  | 12.082                  | 12.082±1                | 13.082                |
| Highest(5700MHz) | 11.824                  | 11.824±1                | 12.824                |

| IEEE for 802.11n(HT20) |                         |                         |                       |
|------------------------|-------------------------|-------------------------|-----------------------|
| Test channel           | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                        |                         |                         | (dBm)                 |
| Lowest(5500MHz)        | 10.880                  | 10.880±1                | 11.880                |
| Middle(5600MHz)        | 11.736                  | 11.736±1                | 12.736                |
| Highest(5700MHz)       | 11.460                  | 11.460±1                | 12.460                |

| IEEE for 802.11n(HT40) |                         |                         |                       |
|------------------------|-------------------------|-------------------------|-----------------------|
| Test channel           | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                        |                         |                         | (dBm)                 |
| Lowest(5510MHz)        | 4.559                   | 4.559±1                 | 5.559                 |
| Middle(5590MHz)        | 9.230                   | 9.230±1                 | 10.230                |
| Highest(5670MHz)       | 9.167                   | 9.167±1                 | 10.167                |

| IEEE for 802.11ac(HT20) |                         |                         |                       |
|-------------------------|-------------------------|-------------------------|-----------------------|
| Test channel            | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |
|                         |                         |                         | (dBm)                 |
| Lowest(5500MHz)         | 11.199                  | 11.199±1                | 12.199                |
| Middle(5600MHz)         | 11.788                  | 11.788±1                | 12.788                |
| Highest(5700MHz)        | 11.525                  | 11.525±1                | 12.525                |

| IEEE for 802.11 ac(HT40) |                            |                            |                       |
|--------------------------|----------------------------|----------------------------|-----------------------|
| Test channel             | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                          |                            |                            | (dBm)                 |
| Lowest(5510MHz)          | 4.811                      | 4.811±1                    | 5.811                 |
| Middle(5590MHz)          | 9.455                      | 9.455±1                    | 10.455                |
| Highest(5670MHz)         | 9.372                      | 9.372±1                    | 10.372                |

| IEEE for 802.11ac(HT80) |                            |                            |                       |
|-------------------------|----------------------------|----------------------------|-----------------------|
| Test channel            | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                         |                            |                            | (dBm)                 |
| Lowest(5530MHz)         | 1.296                      | 1.296±1                    | 2.296                 |
| Highest(5610MHz)        | 8.197                      | 8.197±1                    | 9.197                 |

| Worst case: IEEE for 802.11a |                                           |                                           |              |                               |       |        |
|------------------------------|-------------------------------------------|-------------------------------------------|--------------|-------------------------------|-------|--------|
| Channel                      | Maximum Peak<br>Conducted<br>Output Power | Maximum Peak<br>Conducted Output<br>Power | Antenna Gain | Power Density<br>at R = 20 cm | Limit | Result |
|                              | (dBm)                                     | (MW)                                      | (dBi)        | (mW/cm <sup>2</sup> )         |       |        |
| Highest<br>(5700MHz)         | 13.082                                    | 20.33                                     | 3.47         | 0.009                         | 1.0   | Pass   |

Note: 1) Refer to report **MTEB24050284-R1** for EUT test Max Conducted average Output Power value.

Note: 2)  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (20.33 \cdot 2.22) / (4 \cdot 3.1416 \cdot 20^2) = 0.009$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

Antenna gain: 3.47dBi

## WIFI 5G U-NII 3

| IEEE for 802.11a |                            |                            |                       |
|------------------|----------------------------|----------------------------|-----------------------|
| Test channel     | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                  |                            |                            | (dBm)                 |
| Lowest(5745MHz)  | 12.488                     | 12.488±1                   | 13.488                |
| Middle(5785MHz)  | 12.325                     | 12.325±1                   | 13.325                |
| Highest(5825MHz) | 10.910                     | 10.910±1                   | 11.910                |

| IEEE for 802.11n(HT20) |                            |                            |                       |
|------------------------|----------------------------|----------------------------|-----------------------|
| Test channel           | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                        |                            |                            | (dBm)                 |
| Lowest(5745MHz)        | 12.051                     | 12.051±1                   | 13.051                |
| Middle(5785MHz)        | 11.899                     | 11.899±1                   | 12.899                |
| Highest(5825MHz)       | 10.475                     | 10.475 ± 1                 | 11.475                |

| IEEE for 802.11n(HT40) |                            |                            |                       |
|------------------------|----------------------------|----------------------------|-----------------------|
| Test channel           | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                        |                            |                            | (dBm)                 |
| Lowest(5755MHz)        | 10.008                     | 10.008±1                   | 10.008                |
| Highest(5795MHz)       | 5.411                      | 5.411 ± 1                  | 6.411                 |

| IEEE for 802.11ac(HT20) |                            |                            |                       |
|-------------------------|----------------------------|----------------------------|-----------------------|
| Test channel            | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                         |                            |                            | (dBm)                 |
| Lowest(5745MHz)         | 12.145                     | 12.145±1                   | 13.145                |
| Middle(5785MHz)         | 12.048                     | 12.048±1                   | 13.048                |
| Highest(5825MHz)        | 10.536                     | 10.536±1                   | 11.536                |

| IEEE for 802.11 ac(HT40) |                            |                            |                       |
|--------------------------|----------------------------|----------------------------|-----------------------|
| Test channel             | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                          |                            |                            | (dBm)                 |
| Lowest(5755MHz)          | 10.179                     | 10.179±1                   | 11.179                |
| Highest(5795MHz)         | 5.559                      | 5.559±1                    | 6.559                 |

| IEEE for 802.11ac(HT80) |                            |                            |                       |
|-------------------------|----------------------------|----------------------------|-----------------------|
| Test channel            | Peak Output Power<br>(dBm) | Tune up tolerance<br>(dBm) | Maximum tune-up Power |
|                         |                            |                            | (dBm)                 |
| (5775MHz)               | 2.181                      | 2.181±1                    | 3.181                 |

| Worst case: IEEE for 802.11a |                                           |                                           |              |                               |       |        |
|------------------------------|-------------------------------------------|-------------------------------------------|--------------|-------------------------------|-------|--------|
| Channel                      | Maximum Peak<br>Conducted<br>Output Power | Maximum Peak<br>Conducted Output<br>Power | Antenna Gain | Power Density<br>at R = 20 cm | Limit | Result |
|                              | (dBm)                                     | (MW)                                      | (dBi)        | (mW/cm <sup>2</sup> )         |       |        |
| Lowest<br>(5745MHz)          | 13.488                                    | 22.32                                     | 3.47         | 0.010                         | 1.0   | Pass   |

Note: 1) Refer to report **MTEB24050284-R1** for EUT test Max Conducted average Output Power value.

Note: 2)  $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2) = (22.32 \cdot 2.22) / (4 \cdot 3.1416 \cdot 20^2) = 0.010$

Note: 3) EUT's Wifi module is more than 20cm away from the human body.

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