

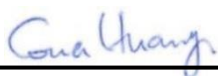
# FCC SAR TEST REPORT

FCC ID : 2AJN7-TP00145DL  
Equipment : Notebook Computer  
Brand Name : Lenovo  
Model Name : TP00145D, TP00145E  
Applicant : LC Future Center Limited Taiwan Branch  
7F., No.780, Beian Rd., Zhongshan Dist., Taipei 104, Taiwan  
Manufacturer : Lenovo PC HK Limited  
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay,  
Hong Kong, P.R. China  
Standard : FCC 47 CFR Part 2 (2.1093)

Equipment: Quectel EM061K-GL and MediaTek MT7925B14L tested inside of Lenovo Notebook Computer.

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



**Sporton International Inc. EMC & Wireless Communications Laboratory**



## **Table of Contents**

|                                                             |           |
|-------------------------------------------------------------|-----------|
| <b>1. Statement of Compliance .....</b>                     | <b>4</b>  |
| <b>2. Guidance Applied.....</b>                             | <b>4</b>  |
| <b>3. Equipment Under Test (EUT) Information .....</b>      | <b>5</b>  |
| 3.1 General Information .....                               | 5         |
| 3.2 General LTE SAR Test and Reporting Considerations ..... | 7         |
| <b>4. RF Exposure Limits.....</b>                           | <b>10</b> |
| 4.1 Uncontrolled Environment.....                           | 10        |
| 4.2 Controlled Environment.....                             | 10        |
| <b>5. Simultaneous Transmission Analysis .....</b>          | <b>11</b> |
| 5.1 Body Exposure Conditions .....                          | 11        |
| 5.2 SPLSR Evaluation and Analysis .....                     | 12        |
| <b>6. References.....</b>                                   | <b>14</b> |
| <b>Appendix A. Test Setup Photos and Antenna Location</b>   |           |

## History of this test report

| Report No.  | Version | Description             | Issued Date   |
|-------------|---------|-------------------------|---------------|
| FA4D0660-05 | 01      | Initial issue of report | Mar. 31, 2025 |
|             |         |                         |               |
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## 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) for LC Future Center Limited Taiwan Branch, Notebook Computer, TP00145D, TP00145E, are as follows.

| Equipment Class | Frequency Band   | Highest SAR Summary | Highest Simultaneous Transmission<br>1g SAR (W/kg) |
|-----------------|------------------|---------------------|----------------------------------------------------|
|                 |                  | Body                |                                                    |
|                 |                  | 1g SAR (W/kg)       |                                                    |
| Licensed        | WCDMA II         | 0.94                | 0.94                                               |
|                 | WCDMA IV         | 0.81                |                                                    |
|                 | WCDMA V          | 0.62                |                                                    |
|                 | LTE Band 7       | 0.70                |                                                    |
|                 | LTE Band 12 / 17 | 0.68                |                                                    |
|                 | LTE Band 13      | 0.66                |                                                    |
|                 | LTE Band 14      | 0.62                |                                                    |
|                 | LTE Band 2 / 25  | 0.82                |                                                    |
|                 | LTE Band 5 / 26  | 0.59                |                                                    |
|                 | LTE Band 30      | 0.66                |                                                    |
|                 | LTE Band 38 / 41 | 0.59                |                                                    |
|                 | LTE Band 4 / 66  | 0.84                |                                                    |
|                 | LTE Band 71      | 0.57                |                                                    |

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

**Reviewed by: Jason Wang**

**Report Producer: Carlie Tsai**

## 2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05

### **3. Equipment Under Test (EUT) Information**

#### **3.1 General Information**

| Product Feature & Specification                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment Name                                                                                                                                                                                                                                                   | Notebook Computer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Brand Name                                                                                                                                                                                                                                                       | Lenovo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Model Name                                                                                                                                                                                                                                                       | TP00145D, TP00145E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| FCC ID                                                                                                                                                                                                                                                           | 2AJN7-TP00145DL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Integrated WWAN Module                                                                                                                                                                                                                                           | Brand Name: Quectel<br>Model Name: EM061K-GL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Integrated WLAN Module                                                                                                                                                                                                                                           | Brand Name: MediaTek<br>Model Name: MT7925B14L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Integrated NFC Module                                                                                                                                                                                                                                            | Brand Name: Foxconn<br>Model Name: T77H747                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Wireless Technology and Frequency Range                                                                                                                                                                                                                          | WCDMA Band II: 1850 MHz ~ 1910 MHz<br>WCDMA Band IV: 1710 MHz ~ 1755 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 66: 1710 MHz ~ 1780 MHz<br>LTE Band 71: 663 MHz ~ 698 MHz<br>WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz<br>WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz<br>WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz<br>WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz<br>WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz<br>WLAN 5.9 GHz Band: 5850 MHz ~ 5895 MHz<br>WLAN 6GHz Band: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz<br>Bluetooth: 2400 MHz ~ 2483.5 MHz<br>NFC: 13.56 MHz |
| Mode                                                                                                                                                                                                                                                             | RMC 12.2Kbps<br>HSDPA<br>HSUPA<br>DC-HSDPA<br>LTE: QPSK, 16QAM<br>WLAN: 802.11a/b/g/n/ac/ax/be<br>HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160<br>Bluetooth BR/EDR/LE<br>NFC: ASK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| EUT Stage                                                                                                                                                                                                                                                        | Production Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Remark:</b><br>1. Based on original filing FCC ID: 2AJN7-TP00145DL, Sporton Report no.: FA4D0660 to added MediaTek MT7925B14L WLAN/BT module from Sporton Report no.: FA4D0660-04, FCC ID: RAS-MT7925B14L and evaluated Sim-Tx analysis include in section 5. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| WWAN Antenna Information |              |                             |                |      |
|--------------------------|--------------|-----------------------------|----------------|------|
| Main Antenna             | Manufacturer | Amphenol Taiwan Corporation | Peak gain(dBi) | 1.93 |
|                          | Part number  | DC330025X10                 | Type           | PIFA |
|                          | Manufacturer | Speed                       | Peak gain(dBi) | 1.93 |
|                          | Part number  | DC330025Y10                 | Type           | PIFA |

| WLAN Antenna Information |                 |                             |          |                |          |
|--------------------------|-----------------|-----------------------------|----------|----------------|----------|
| Antenna 1                | Manufacturer    | SPEEDWIRE                   |          |                |          |
|                          | Antenna Type    | PIFA Antenna                |          | PIFA Antenna   |          |
|                          | Part number     | DC330025Y00                 |          | DC330025Y00    |          |
|                          | Peak gain (dbi) | Main Antenna :              |          | Aux Antenna :  |          |
|                          |                 | WLAN(2.4G):                 | 1.43 dBi | BT/WLAN(2.4G): | 1.92 dBi |
|                          |                 | WLAN(5G B1):                | 0.54 dBi | WLAN(5G B1):   | 2.84 dBi |
|                          |                 | WLAN(5G B2):                | 1.59 dBi | WLAN(5G B2):   | 2.84 dBi |
|                          |                 | WLAN(5G B3):                | 2.22 dBi | WLAN(5G B3):   | 2.46 dBi |
|                          |                 | WLAN(5G B4):                | 2.26 dBi | WLAN(5G B4):   | 2.22 dBi |
|                          |                 | UNII4:                      | 1.87 dBi | UNII4:         | 1.07 dBi |
|                          |                 | UNII5:                      | 2.05 dBi | UNII5:         | 1.74 dBi |
|                          |                 | UNII6:                      | 2.05 dBi | UNII6:         | 2.05 dBi |
|                          |                 | UNII7:                      | 1.25 dBi | UNII7:         | 2.05 dBi |
|                          |                 | UNII8:                      | 2.32 dBi | UNII8:         | 0.9 dBi  |
| Antenna 2                | Manufacturer    | Amphenol Taiwan Corporation |          |                |          |
|                          | Antenna Type    | PIFA Antenna                |          | PIFA Antenna   |          |
|                          | Part number     | DC330025X00                 |          | DC330025X00    |          |
|                          | Peak gain (dbi) | Main Antenna :              |          | Aux Antenna :  |          |
|                          |                 | WLAN(2.4G):                 | 1.43 dBi | BT/WLAN(2.4G): | 1.92 dBi |
|                          |                 | WLAN(5G B1):                | 0.54 dBi | WLAN(5G B1):   | 2.84 dBi |
|                          |                 | WLAN(5G B2):                | 1.59 dBi | WLAN(5G B2):   | 2.84 dBi |
|                          |                 | WLAN(5G B3):                | 2.22 dBi | WLAN(5G B3):   | 2.46 dBi |
|                          |                 | WLAN(5G B4):                | 2.26 dBi | WLAN(5G B4):   | 2.22 dBi |
|                          |                 | UNII4:                      | 1.87 dBi | UNII4:         | 1.07 dBi |
|                          |                 | UNII5:                      | 2.05 dBi | UNII5:         | 1.74 dBi |
|                          |                 | UNII6:                      | 2.05 dBi | UNII6:         | 2.05 dBi |
|                          |                 | UNII7:                      | 1.25 dBi | UNII7:         | 2.05 dBi |
|                          |                 | UNII8:                      | 2.32 dBi | UNII8:         | 0.9 dBi  |

### 3.2 General LTE SAR Test and Reporting Considerations

| Summarized necessary items addressed in KDB 941225 D05 v02r05           |                   |             |                 |                                                                                                                                                                                                        |                                                               |             |                  |             |                  |             |                  |             |
|-------------------------------------------------------------------------|-------------------|-------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
| FCC ID                                                                  |                   |             |                 | 2AJN7-TP00145DL                                                                                                                                                                                        |                                                               |             |                  |             |                  |             |                  |             |
| Equipment Name                                                          |                   |             |                 | Notebook Computer                                                                                                                                                                                      |                                                               |             |                  |             |                  |             |                  |             |
| Operating Frequency Range of each LTE transmission band                 |                   |             |                 | LTE Band 2: 1850 MHz ~ 1910 MHz                                                                                                                                                                        |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 4: 1710 MHz ~ 1755 MHz                                                                                                                                                                        |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 5: 824 MHz ~ 849 MHz                                                                                                                                                                          |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 7: 2500 MHz ~ 2570 MHz                                                                                                                                                                        |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 12: 699 MHz ~ 716 MHz                                                                                                                                                                         |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 13: 777 MHz ~ 787 MHz                                                                                                                                                                         |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 14: 788 MHz ~ 798 MHz                                                                                                                                                                         |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 17: 704 MHz ~ 716 MHz                                                                                                                                                                         |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 25: 1850 MHz ~ 1915 MHz                                                                                                                                                                       |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 26: 814 MHz ~ 849 MHz                                                                                                                                                                         |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 30: 2305 MHz ~ 2315 MHz                                                                                                                                                                       |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 38: 2570 MHz ~ 2620 MHz                                                                                                                                                                       |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 41: 2496 MHz ~ 2690 MHz                                                                                                                                                                       |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 66: 1710 MHz ~ 1780 MHz                                                                                                                                                                       |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 71: 663 MHz ~ 698 MHz                                                                                                                                                                         |                                                               |             |                  |             |                  |             |                  |             |
| Channel Bandwidth                                                       |                   |             |                 | LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                     |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                     |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz                                                                                                                                                                   |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                                  |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz                                                                                                                                                                  |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 13: 5MHz, 10MHz                                                                                                                                                                               |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 14: 5MHz, 10MHz                                                                                                                                                                               |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 17: 5MHz, 10MHz                                                                                                                                                                               |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                    |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz                                                                                                                                                           |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 30: 5MHz, 10MHz                                                                                                                                                                               |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                                 |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                                 |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                    |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                                 |                                                               |             |                  |             |                  |             |                  |             |
| uplink modulations used                                                 |                   |             |                 | QPSK / 16QAM                                                                                                                                                                                           |                                                               |             |                  |             |                  |             |                  |             |
| LTE Voice / Data requirements                                           |                   |             |                 | Data only                                                                                                                                                                                              |                                                               |             |                  |             |                  |             |                  |             |
| LTE MPR permanently built-in by design                                  |                   |             |                 | Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3                                                                                                                                |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         |                   |             |                 | Modulation                                                                                                                                                                                             | Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> ) |             |                  |             |                  |             | MPR (dB)         |             |
|                                                                         |                   |             |                 |                                                                                                                                                                                                        | 1.4 MHz                                                       | 3.0 MHz     | 5 MHz            | 10 MHz      | 15 MHz           | 20 MHz      |                  |             |
|                                                                         |                   |             |                 | QPSK                                                                                                                                                                                                   | > 5                                                           | > 4         | > 8              | > 12        | > 16             | > 18        | ≤ 1              |             |
|                                                                         |                   |             |                 | 16 QAM                                                                                                                                                                                                 | ≤ 5                                                           | ≤ 4         | ≤ 8              | ≤ 12        | ≤ 16             | ≤ 18        | ≤ 1              |             |
|                                                                         |                   |             |                 | 16 QAM                                                                                                                                                                                                 | > 5                                                           | > 4         | > 8              | > 12        | > 16             | > 18        | ≤ 2              |             |
|                                                                         |                   |             |                 | 64 QAM                                                                                                                                                                                                 | ≤ 5                                                           | ≤ 4         | ≤ 8              | ≤ 12        | ≤ 16             | ≤ 18        | ≤ 2              |             |
|                                                                         |                   |             |                 | 64 QAM                                                                                                                                                                                                 | > 5                                                           | > 4         | > 8              | > 12        | > 16             | > 18        | ≤ 3              |             |
| 256 QAM                                                                 | ≥ 1               |             |                 |                                                                                                                                                                                                        |                                                               |             | ≤ 5              |             |                  |             |                  |             |
| LTE A-MPR                                                               |                   |             |                 | In the base station simulator configuration, Network Setting value is set to NS_01 to disable A-MPR during SAR testing and the LTE SAR tests was transmitting on all TTI frames (Maximum TTI)          |                                                               |             |                  |             |                  |             |                  |             |
| Spectrum plots for RB configuration                                     |                   |             |                 | A properly configured base station simulator was used for the SAR and power measurement; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report. |                                                               |             |                  |             |                  |             |                  |             |
| Power reduction applied to satisfy SAR compliance                       |                   |             |                 | Yes, Proximity Sensor and power verification include in Report no.: FA4D0660.                                                                                                                          |                                                               |             |                  |             |                  |             |                  |             |
| Transmission (H, M, L) channel numbers and frequencies in each LTE band |                   |             |                 |                                                                                                                                                                                                        |                                                               |             |                  |             |                  |             |                  |             |
| LTE Band 2                                                              |                   |             |                 |                                                                                                                                                                                                        |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz |                                                                                                                                                                                                        | Bandwidth 5 MHz                                               |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |
|                                                                         | Ch. #             | Freq. (MHz) | Ch. #           | Freq. (MHz)                                                                                                                                                                                            | Ch. #                                                         | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L                                                                       | 18607             | 1850.7      | 18615           | 1851.5                                                                                                                                                                                                 | 18625                                                         | 1852.5      | 18650            | 1855        | 18675            | 1857.5      | 18700            | 1860        |
| M                                                                       | 18900             | 1880        | 18900           | 1880                                                                                                                                                                                                   | 18900                                                         | 1880        | 18900            | 1880        | 18900            | 1880        | 18900            | 1880        |
| H                                                                       | 19193             | 1909.3      | 19185           | 1908.5                                                                                                                                                                                                 | 19175                                                         | 1907.5      | 19150            | 1905        | 19125            | 1902.5      | 19100            | 1900        |
| LTE Band 4                                                              |                   |             |                 |                                                                                                                                                                                                        |                                                               |             |                  |             |                  |             |                  |             |
|                                                                         | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz |                                                                                                                                                                                                        | Bandwidth 5 MHz                                               |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |
|                                                                         | Ch. #             | Freq. (MHz) | Ch. #           | Freq. (MHz)                                                                                                                                                                                            | Ch. #                                                         | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L                                                                       | 19957             | 1710.7      | 19965           | 1711.5                                                                                                                                                                                                 | 19975                                                         | 1712.5      | 20000            | 1715        | 20025            | 1717.5      | 20050            | 1720        |
| M                                                                       | 20175             | 1732.5      | 20175           | 1732.5                                                                                                                                                                                                 | 20175                                                         | 1732.5      | 20175            | 1732.5      | 20175            | 1732.5      | 20175            | 1732.5      |
| H                                                                       | 20393             | 1754.3      | 20385           | 1753.5                                                                                                                                                                                                 | 20375                                                         | 1752.5      | 20350            | 1750        | 20325            | 1747.5      | 20300            | 1745        |

| LTE Band 5  |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|-------------|-------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
|             | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |                  |             |                  |             |
| L           | 20407             | 824.7       | 20415            | 825.5       | 20425            | 826.5       | 20450            | 829         |                  |             |                  |             |
| M           | 20525             | 836.5       | 20525            | 836.5       | 20525            | 836.5       | 20525            | 836.5       |                  |             |                  |             |
| H           | 20643             | 848.3       | 20635            | 847.5       | 20625            | 846.5       | 20600            | 844         |                  |             |                  |             |
| LTE Band 7  |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |                  |             |                  |             |
| L           | 20775             | 2502.5      | 20800            | 2505        | 20825            | 2507.5      | 20850            | 2510        |                  |             |                  |             |
| M           | 21100             | 2535        | 21100            | 2535        | 21100            | 2535        | 21100            | 2535        |                  |             |                  |             |
| H           | 21425             | 2567.5      | 21400            | 2565        | 21375            | 2562.5      | 21350            | 2560        |                  |             |                  |             |
| LTE Band 12 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |                  |             |                  |             |
| L           | 23017             | 699.7       | 23025            | 700.5       | 23035            | 701.5       | 23060            | 704         |                  |             |                  |             |
| M           | 23095             | 707.5       | 23095            | 707.5       | 23095            | 707.5       | 23095            | 707.5       |                  |             |                  |             |
| H           | 23173             | 715.3       | 23165            | 714.5       | 23155            | 713.5       | 23130            | 711         |                  |             |                  |             |
| LTE Band 13 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             |                  |             | Bandwidth 10 MHz |             |                  |             |                  |             |                  |             |
|             | Channel #         |             | Freq.(MHz)       |             | Channel #        |             | Freq.(MHz)       |             |                  |             |                  |             |
| L           | 23205             |             | 779.5            |             | 23230            |             | 782              |             |                  |             |                  |             |
| M           | 23230             |             | 782              |             |                  |             |                  |             |                  |             |                  |             |
| H           | 23255             |             | 784.5            |             |                  |             |                  |             |                  |             |                  |             |
| LTE Band 14 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             |                  |             | Bandwidth 10 MHz |             |                  |             |                  |             |                  |             |
|             | Channel #         |             | Channel #        |             | Channel #        |             | Freq.(MHz)       |             |                  |             |                  |             |
| L           | 23305             |             | 790.5            |             | 23330            |             | 793              |             |                  |             |                  |             |
| M           | 23330             |             | 793              |             |                  |             |                  |             |                  |             |                  |             |
| H           | 23355             |             | 795.5            |             |                  |             |                  |             |                  |             |                  |             |
| LTE Band 17 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             |                  |             | Bandwidth 10 MHz |             |                  |             |                  |             |                  |             |
|             | Channel #         |             | Freq.(MHz)       |             | Channel #        |             | Freq. (MHz)      |             |                  |             |                  |             |
| L           | 23755             |             | 706.5            |             | 23780            |             | 709              |             |                  |             |                  |             |
| M           | 23790             |             | 710              |             | 23790            |             | 710              |             |                  |             |                  |             |
| H           | 23825             |             | 713.5            |             | 23800            |             | 711              |             |                  |             |                  |             |
| LTE Band 25 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 26047             | 1850.7      | 26055            | 1851.5      | 26065            | 1852.5      | 26090            | 1855        | 26115            | 1857.5      | 26140            | 1860        |
| M           | 26340             | 1880        | 26340            | 1880        | 26340            | 1880        | 26340            | 1880        | 26340            | 1880        | 26340            | 1880        |
| H           | 26683             | 1914.3      | 26675            | 1913.5      | 26665            | 1912.5      | 26640            | 1910        | 26615            | 1907.5      | 26590            | 1905        |
| LTE Band 26 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 26697             | 814.7       | 26705            | 815.5       | 26715            | 816.5       | 26740            | 819         | 26765            | 821.5       |                  |             |
| M           | 26865             | 831.5       | 26865            | 831.5       | 26865            | 831.5       | 26865            | 831.5       | 26865            | 831.5       |                  |             |
| H           | 27033             | 848.3       | 27025            | 847.5       | 27015            | 846.5       | 26990            | 844         | 26965            | 841.5       |                  |             |
| LTE Band 30 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             |                  |             | Bandwidth 10 MHz |             |                  |             |                  |             |                  |             |
|             | Channel #         |             | Freq.(MHz)       |             | Channel #        |             | Freq.(MHz)       |             |                  |             |                  |             |
| L           | 27685             |             | 2307.5           |             | 27710            |             | 2310             |             |                  |             |                  |             |
| M           | 27710             |             | 2310             |             |                  |             |                  |             |                  |             |                  |             |
| H           | 27735             |             | 2312.5           |             |                  |             |                  |             |                  |             |                  |             |

| LTE Band 38 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|-------------|-------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
|             | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |                  |             |                  |             |
| L           | 37775             | 2572.5      | 37800            | 2575        | 37825            | 2577.5      | 37850            | 2580        |                  |             |                  |             |
| M           | 38000             | 2595        | 38000            | 2595        | 38000            | 2595        | 38000            | 2595        |                  |             |                  |             |
| H           | 38225             | 2617.5      | 38200            | 2615        | 38175            | 2612.5      | 38150            | 2610        |                  |             |                  |             |
| LTE Band 41 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |                  |             |                  |             |
| L           | 39675             | 2498.5      | 39700            | 2501        | 39725            | 2503.5      | 39750            | 2506        |                  |             |                  |             |
| LM          | 40148             | 2545.8      | 40160            | 2547        | 40173            | 2548.3      | 40185            | 2549.5      |                  |             |                  |             |
| M           | 40620             | 2593        | 40620            | 2593        | 40620            | 2593        | 40620            | 2593        |                  |             |                  |             |
| HM          | 41093             | 2640.3      | 41080            | 2639        | 41068            | 2637.8      | 41055            | 2636.5      |                  |             |                  |             |
| H           | 41565             | 2687.5      | 41540            | 2685        | 41515            | 2682.5      | 41490            | 2680        |                  |             |                  |             |
| LTE Band 66 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 1.4 MHz |             | Bandwidth 3 MHz  |             | Bandwidth 5 MHz  |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L           | 131979            | 1710.7      | 131987           | 1711.5      | 131997           | 1712.5      | 132022           | 1715        | 132047           | 1717.5      | 132072           | 1720        |
| M           | 132322            | 1745        | 132322           | 1745        | 132322           | 1745        | 132322           | 1745        | 132322           | 1745        | 132322           | 1745        |
| H           | 132665            | 1779.3      | 132657           | 1778.5      | 132647           | 1777.5      | 132622           | 1775        | 132597           | 1772.5      | 132572           | 1770        |
| LTE Band 71 |                   |             |                  |             |                  |             |                  |             |                  |             |                  |             |
|             | Bandwidth 5 MHz   |             | Bandwidth 10 MHz |             | Bandwidth 15 MHz |             | Bandwidth 20 MHz |             |                  |             |                  |             |
|             | Ch. #             | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) | Ch. #            | Freq. (MHz) |                  |             |                  |             |
| L           | 133147            | 665.5       | 133172           | 668         | 133197           | 670.5       | 133222           | 673         |                  |             |                  |             |
| M           | 133297            | 680.5       | 133297           | 680.5       | 133297           | 680.5       | 133297           | 680.5       |                  |             |                  |             |
| H           | 133447            | 695.5       | 133422           | 693         | 133397           | 690.5       | 133372           | 688         |                  |             |                  |             |

## **4. RF Exposure Limits**

### **4.1 Uncontrolled Environment**

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

### **4.2 Controlled Environment**

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**Limits for Occupational/Controlled Exposure (W/kg)**

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.4        | 8.0          | 20.0                           |

**Limits for General Population/Uncontrolled Exposure (W/kg)**

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.08       | 1.6          | 4.0                            |

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

## 5. Simultaneous Transmission Analysis

| NO. | Simultaneous Transmission Configurations | Body |
|-----|------------------------------------------|------|
| 1.  | WWAN + WLAN2.4GHz Main + WLAN2.4GHz AUX  | Yes  |
| 2.  | WWAN + WLAN5GHz MIMO + Bluetooth AUX     | Yes  |
| 3.  | WWAN + WLAN2.4GHz AUX + WLAN5/6GHz Main  | Yes  |

**General Note:**

1. The MediaTek MT7925B14L WLAN/BT module (FCC ID: RAS-MT7925B14L) is integrated into this host.
2. The Scaled SAR summation is calculated based on the same configuration and test position.
3. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - i) Scalar SAR summation < 1.6W/kg.
  - ii)  $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - iii) If  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary.
  - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.
  - v) The SPLSR calculated results please refer to section 5.2.

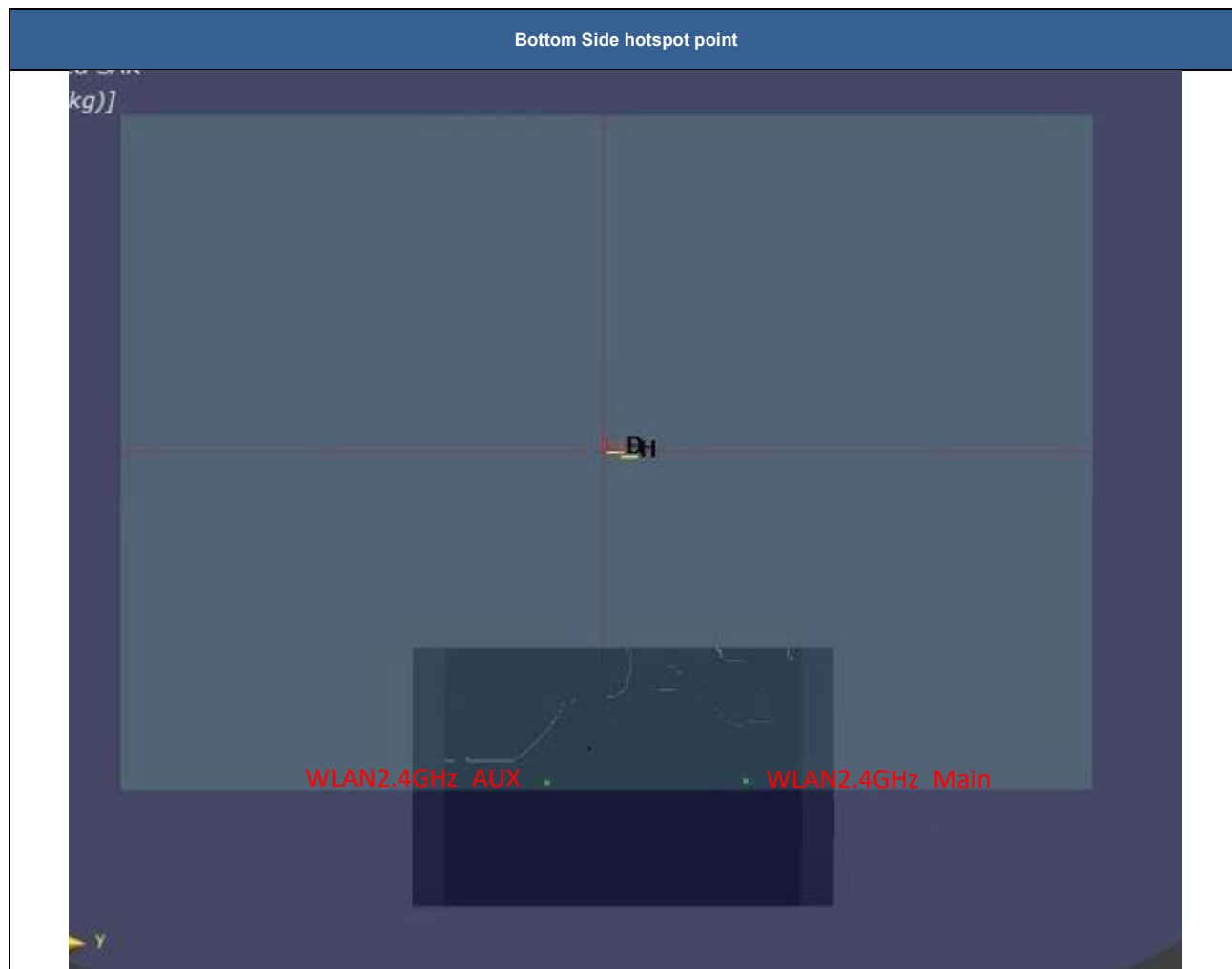
### 5.1 Body Exposure Conditions

| Exposure Position  | 1                             | 2                                | 3                               | 4                                | 5                               | 6                              | 7                              | 1+2+3                | 1+6+7                | 1+3+4                | 1+2+3 | 1+2+3   | 1+6+7 | 1+6+7   | 1+3+4 | 1+3+4   |
|--------------------|-------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|--------------------------------|--------------------------------|----------------------|----------------------|----------------------|-------|---------|-------|---------|-------|---------|
|                    | Maximum WWAN<br>1g SAR (W/kg) | WLAN2.4GHz Main<br>1g SAR (W/kg) | WLAN2.4GHz AUX<br>1g SAR (W/kg) | WLAN5/6GHz Main<br>1g SAR (W/kg) | WLAN5/6GHz AUX<br>1g SAR (W/kg) | WLAN5GHz MIMO<br>1g SAR (W/kg) | Bluetooth AUX<br>1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | Summed 1g SAR (W/kg) | SPLSR | Case No | SPLSR | Case No | SPLSR | Case No |
| Bottom Side at 0mm | 0.936                         | 0.569                            | 0.559                           | 1.168                            | 1.177                           | 1.156                          | 0.020                          | 2.064                | 2.112                | 2.663                | 0.020 | Case 2  | 0.020 | Case 3  | 0.040 | Case 1  |

## 5.2 SPLSR Evaluation and Analysis

### General Note:

1. According to antenna location in the Appendix A the minimum distance between each transmit antenna is using for SPLSR analysis
2.  $SPLSR = (SAR_1 + SAR_2)^{1.5} / (min. \text{ separation distance, mm})$ . If  $SPLSR \leq 0.04$ , simultaneously transmission SAR measurement is not necessary.
3. The detail hotspot point for each transmitter in each exposure condition are showing as below figure and the minimum 3D distance for each sum combination is used for SPLSR analysis.



|        | Band            | Position    | SAR (W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |      | 3D/Minimum<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|--------|-----------------|-------------|------------|-------------|------------------------|-------|------|--------------------------------|-------------------------|------------------|---------------------|
|        |                 |             |            |             | X                      | Y     | Z    |                                |                         |                  |                     |
| Case 1 | WLAN2.4GHz_Aux  | Bottom Side | 0.559      | 0mm         | 106                    | -18.5 | -177 | 61.3                           | 1.73                    | 0.04             | Not required        |
|        | WLAN5GHz_Main   |             | 1.168      | 0mm         | 102.3                  | 42.7  | -177 |                                |                         |                  |                     |
|        | WCDMA II        | Bottom Side | 0.936      | 0mm         |                        |       |      | 181.0                          | 2.10                    | 0.02             | Not required        |
|        | WLAN5GHz_Main   |             | 1.168      | 0mm         |                        |       |      |                                |                         |                  |                     |
|        | WCDMA II        | Bottom Side | 0.936      | 0mm         |                        |       |      | 198.0                          | 1.50                    | 0.01             | Not required        |
|        | WLAN2.4GHz_Aux  |             | 0.559      | 0mm         |                        |       |      |                                |                         |                  |                     |
| Case 2 | Band            | Position    | SAR (W/kg) | Gap<br>(mm) | SAR peak location (mm) |       |      | 3D/Minimum<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|        |                 |             |            |             | X                      | Y     | Z    |                                |                         |                  |                     |
|        | WCDMA II        | Bottom Side | 0.936      | 0mm         |                        |       |      | 198.0                          | 1.50                    | 0.01             | Not required        |
|        | WLAN2.4GHz_Aux  |             | 0.559      | 0mm         |                        |       |      |                                |                         |                  |                     |
|        | WCDMA II        | Bottom Side | 0.936      | 0mm         |                        |       |      | 181.0                          | 1.51                    | 0.01             | Not required        |
|        | WLAN2.4GHz_Main |             | 0.569      | 0mm         |                        |       |      |                                |                         |                  |                     |
| Case 3 | Band            | Position    | SAR (W/kg) | Gap<br>(mm) | SAR peak location (cm) |       |      | 3D/Minimum<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|        |                 |             |            |             | X                      | Y     | Z    |                                |                         |                  |                     |
|        | WCDMA II        | Bottom Side | 0.936      | 0mm         |                        |       |      | 181.0                          | 2.09                    | 0.02             | Not required        |
|        | WLAN5GHz_MIMO   |             | 1.156      | 0mm         |                        |       |      |                                |                         |                  |                     |
|        | WCDMA II        | Bottom Side | 0.936      | 0mm         |                        |       |      | 181.0                          | 0.96                    | 0.01             | Not required        |
|        | Bluetooth       |             | 0.02       | 0mm         |                        |       |      |                                |                         |                  |                     |
|        | Band            | Position    | SAR (W/kg) | Gap<br>(mm) | SAR peak location (cm) |       |      | 3D/Minimum<br>distance<br>(mm) | Summed<br>SAR<br>(W/kg) | SPLSR<br>Results | Simultaneous<br>SAR |
|        |                 |             |            |             | X                      | Y     | Z    |                                |                         |                  |                     |
|        | WLAN5GHz_MIMO   | Bottom Side | 1.156      | 0mm         | 106                    | -18.5 | -177 | 61.3                           | 1.18                    | 0.02             | Not required        |
|        | Bluetooth       |             | 0.02       | 0mm         | 102.3                  | 42.7  | -177 |                                |                         |                  |                     |

## **6. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [6] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [7] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [8] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [9] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [10] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.