

# FCC SAR Test Report

APPLICANT : Guangdong OPPO Mobile  
Telecommunications Corp., Ltd.  
EQUIPMENT : Mobile Phone  
BRAND NAME : OPPO  
MODEL NAME : CPH2603  
FCC ID : R9C-OP23051  
STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.



Approved by: Si Zhang

**Sporton International Inc. (Shenzhen)**

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People's Republic of China



## Table of Contents

|                                                         |            |
|---------------------------------------------------------|------------|
| <b>1. Statement of Compliance</b>                       | <b>4</b>   |
| <b>2. Administration Data</b>                           | <b>5</b>   |
| <b>3. Guidance Applied</b>                              | <b>5</b>   |
| <b>4. Equipment Under Test (EUT) Information</b>        | <b>6</b>   |
| 4.1 General Information                                 | 6          |
| 4.2 General LTE SAR Test and Reporting Considerations   | 8          |
| 4.3 General 5G NR SAR Test and Reporting Considerations | 12         |
| <b>5. RF Exposure Limits</b>                            | <b>14</b>  |
| 5.1 Uncontrolled Environment                            | 14         |
| 5.2 Controlled Environment                              | 14         |
| <b>6. Specific Absorption Rate (SAR)</b>                | <b>15</b>  |
| 6.1 Introduction                                        | 15         |
| 6.2 SAR Definition                                      | 15         |
| <b>7. System Description and Setup</b>                  | <b>16</b>  |
| 7.1 E-Field Probe                                       | 17         |
| 7.2 Data Acquisition Electronics (DAE)                  | 17         |
| 7.3 Phantom                                             | 18         |
| 7.4 Device Holder                                       | 19         |
| <b>8. Measurement Procedures</b>                        | <b>20</b>  |
| 8.1 Spatial Peak SAR Evaluation                         | 20         |
| 8.2 Power Reference Measurement                         | 21         |
| 8.3 Area Scan                                           | 21         |
| 8.4 Zoom Scan                                           | 22         |
| 8.5 Volume Scan Procedures                              | 22         |
| 8.6 Power Drift Monitoring                              | 22         |
| <b>9. Test Equipment List</b>                           | <b>23</b>  |
| <b>10. System Verification</b>                          | <b>24</b>  |
| 10.1 Tissue Simulating Liquids                          | 24         |
| 10.2 Tissue Verification                                | 24         |
| 10.3 System Performance Check Results                   | 26         |
| <b>11. RF Exposure Positions</b>                        | <b>28</b>  |
| 11.1 Ear and handset reference point                    | 28         |
| 11.2 Definition of the cheek position                   | 29         |
| 11.3 Definition of the tilt position                    | 30         |
| 11.4 Body Worn Accessory                                | 31         |
| 11.5 Product Specific 10g SAR Exposure                  | 32         |
| 11.6 Wireless Router                                    | 32         |
| <b>12. Conducted RF Output Power (Unit: dBm)</b>        | <b>33</b>  |
| <b>13. Antenna Location</b>                             | <b>50</b>  |
| <b>14. SAR Test Results</b>                             | <b>51</b>  |
| 14.1 Head SAR                                           | 54         |
| 14.2 Hotspot SAR                                        | 74         |
| 14.3 Body Worn Accessory SAR                            | 86         |
| 14.4 Product specific 10g SAR                           | 98         |
| 14.5 Repeated SAR Measurement                           | 100        |
| 14.6 TDD LTE Linearity Data Analysis                    | 101        |
| <b>15. Simultaneous Transmission Analysis</b>           | <b>103</b> |
| 15.1 Head Exposure Conditions                           | 104        |
| 15.2 Hotspot Exposure Conditions                        | 106        |
| 15.3 Body-Worn Accessory Exposure Conditions            | 107        |
| 15.4 Product specific 10g SAR Exposure Conditions       | 108        |
| <b>16. Uncertainty Assessment</b>                       | <b>109</b> |
| <b>17. References</b>                                   | <b>110</b> |
| <b>Appendix A. Plots of System Performance Check</b>    |            |
| <b>Appendix B. Plots of High SAR Measurement</b>        |            |
| <b>Appendix C. DASY Calibration Certificate</b>         |            |
| <b>Appendix D. Test Setup Photos</b>                    |            |
| <b>Appendix E. Conducted RF Output Power Table</b>      |            |

## Revision History

| REPORT NO. | VERSION | DESCRIPTION              | ISSUED DATE   |
|------------|---------|--------------------------|---------------|
| FA3O3018   | Rev. 01 | Initial issue of report. | Dec. 18, 2023 |
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## 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Guangdong OPPO Mobile Telecommunications Corp., Ltd., Mobile Phone, CPH2603**, are as follows.

| Highest 1g SAR Summary |                |                  |                          |                              |                                |                                                    |
|------------------------|----------------|------------------|--------------------------|------------------------------|--------------------------------|----------------------------------------------------|
| Equipment Class        | Frequency Band |                  | Head<br>(Separation 0mm) | Hotspot<br>(Separation 10mm) | Body-worn<br>(Separation 15mm) | Highest Simultaneous Transmission<br>1g SAR (W/kg) |
|                        |                |                  | 1g SAR (W/kg)            |                              |                                |                                                    |
| Licensed               | GSM            | GSM850           | 0.97                     | 0.76                         | 0.46                           | 1.57                                               |
|                        |                | GSM1900          | 0.99                     | 0.92                         | 0.48                           |                                                    |
|                        | WCDMA          | WCDMA II         | 1.06                     | 0.62                         | 0.49                           |                                                    |
|                        |                | WCDMA IV         | 1.15                     | 0.60                         | 0.47                           |                                                    |
|                        |                | WCDMA V          | 0.75                     | 0.54                         | 0.47                           |                                                    |
|                        | LTE            | LTE Band 2       | 0.91                     | 0.51                         | 0.40                           |                                                    |
|                        |                | LTE Band 66/4    | 0.91                     | 0.62                         | 0.40                           |                                                    |
|                        |                | LTE Band 26/5    | 0.56                     | 0.50                         | 0.39                           |                                                    |
|                        |                | LTE Band 7       | 1.08                     | 0.77                         | 0.50                           |                                                    |
|                        |                | LTE Band 12/17   | 0.62                     | 0.57                         | 0.27                           |                                                    |
|                        |                | LTE Band 13      | 0.85                     | 0.75                         | 0.54                           |                                                    |
|                        |                | LTE Band 38      | 1.03                     | 0.50                         | 0.38                           |                                                    |
|                        |                | LTE Band 41      | 1.18                     | 0.55                         | 0.36                           |                                                    |
|                        |                | 5G NR            | FR1 n2                   | 0.95                         | 0.66                           |                                                    |
|                        | FR1 n26/n5     |                  | 1.10                     | 1.03                         | 0.62                           |                                                    |
|                        | FR1 n7         |                  | 1.05                     | 0.74                         | 0.40                           |                                                    |
|                        | FR1 n66        |                  | 1.04                     | 0.67                         | 0.49                           |                                                    |
|                        | FR1 n38        |                  | 1.18                     | 0.65                         | 0.41                           |                                                    |
|                        | FR1 n41        |                  | 1.15                     | 0.87                         | 0.60                           |                                                    |
| DTS                    | WLAN           | 2.4GHz WLAN      | 0.67                     | 0.18                         | 0.16                           | 1.48                                               |
| NII                    |                | 5GHz WLAN        | 1.12                     | 0.69                         | 0.70                           | 1.57                                               |
| DSS                    | Bluetooth      | 2.4GHz Bluetooth | 0.46                     | 0.17                         | <0.10                          | 1.57                                               |

| Highest 10g SAR Summary |                |            |                                                  |                                                  |
|-------------------------|----------------|------------|--------------------------------------------------|--------------------------------------------------|
| Equipment Class         | Frequency Band |            | Product Specific 10g SAR (W/kg) (Separation 0mm) | Highest Simultaneous Transmission 10g SAR (W/kg) |
| Licensed                | LTE            | LTE Band 7 | 1.88                                             | 2.69                                             |
|                         | 5G NR          | FR1 n26/n5 | 1.40                                             |                                                  |
|                         |                | FR1 n41    | 2.69                                             |                                                  |
| NII                     | WLAN           | 5GHz WLAN  | 2.79                                             | 2.79                                             |
| Date of Testing:        |                |            | 2023/11/11 ~ 2023/11/30                          |                                                  |

### Remark:

- This device supports LTE B4 / B5 / B17 and B66 / B26 / B12. Since the supported frequency span for LTE B4 / B5 / B17 falls completely within the supports frequency span for LTE B66 / B26 / B12, both LTE bands have the same target power, and both LTE bands share the same transmission path; therefore, SAR was only assessed for LTE B66 / B26 / B12.
- This device supports 5GNR n5 and n26. Since the supported frequency span for 5GNR n5 falls completely within the supports frequency span for n26, both 5GNR bands have the same target power, and both 5GNR bands share the same transmission path; therefore, SAR was only assessed for n26.

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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, 4.0 W/kg for Product Specific 10g 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.

## 2. Administration Data

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

| Testing Laboratory |                                                                                                                                                                            |                     |                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| Test Firm          | Sporton International Inc. (Shenzhen)                                                                                                                                      |                     |                                |
| Test Site Location | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055<br>People's Republic of China<br>TEL: +86-755-86379589<br>FAX: +86-755-86379595 |                     |                                |
| Test Site No.      | Sporton Site No.                                                                                                                                                           | FCC Designation No. | FCC Test Firm Registration No. |
|                    | SAR01-SZ                                                                                                                                                                   | CN1256              | 421272                         |

| Applicant    |                                                                                  |
|--------------|----------------------------------------------------------------------------------|
| Company Name | Guangdong OPPO Mobile Telecommunications Corp., Ltd.                             |
| Address      | NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China |

| Manufacturer |                                                                                  |
|--------------|----------------------------------------------------------------------------------|
| Company Name | Guangdong OPPO Mobile Telecommunications Corp., Ltd.                             |
| Address      | NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City, Guangdong, China |

## 3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- 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 648474 D04 SAR Evaluation Considerations for Wireless Handsets v01r03
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02
- FCC KDB 941225 D06 Hotspot Mode SAR v02r01

## 4. Equipment Under Test (EUT) Information

### 4.1 General Information

| Product Feature & Specification         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment Name                          | Mobile Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Brand Name                              | OPPO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Model Name                              | CPH2603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| FCC ID                                  | R9C-OP23051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| IMEI Code                               | Sample 1:<br>IMEI 1: 860306070103999<br>IMEI 2: 860306070103981<br>Sample 2:<br>IMEI 1: 860306070126891<br>IMEI 2: 860306070126883                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Wireless Technology and Frequency Range | GSM850: 824 MHz ~ 849 MHz<br>GSM1900: 1850 MHz ~ 1910 MHz<br>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 17: 704 MHz ~ 716 MHz<br>LTE Band 26: 814 MHz ~ 849 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>5G NR n2: 1850 MHz ~ 1910 MHz<br>5G NR n5: 824 MHz ~ 849 MHz<br>5G NR n7: 2500 MHz ~ 2570 MHz<br>5G NR n26: 814 MHz ~ 849 MHz<br>5G NR n66: 1710 MHz ~ 1780 MHz<br>5G NR n38: 2570 MHz ~ 2620 MHz<br>5G NR n41: 2496 MHz ~ 2690 MHz<br>WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz<br>WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz<br>WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz<br>WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz<br>WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz<br>NFC: 13.56 MHz |
| Mode                                    | GSM/GPRS/EGPRS<br>RMC/AMR 12.2Kbps<br>HSDPA<br>HSUPA<br>DC-HSDPA<br>HSPA+(16QAM uplink is supported)<br>LTE: QPSK, 16QAM, 64QAM<br>5G NR : CP-OFDM / DFT-s-OFDM, QPSK, 16QAM, 64QAM, 256QAM<br>WLAN 2.4GHz 802.11b/g/n HT20/HT40<br>WLAN 2.4GHz 802.11ac VHT20/VHT40<br>WLAN 2.4GHz 802.11ax HE20/HE40<br>WLAN 5GHz 802.11a/n HT20/HT40<br>WLAN 5GHz 802.11ac VHT20/VHT40/VHT80<br>WLAN 5GHz 802.11ax HE20/HE40/HE80<br>Bluetooth BR/EDR/LE<br>NFC: ASK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| HW Version                              | 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SW Version                              | ColorOS 14.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| GSM / (E)GPRS Transfer mode             | Class B – EUT cannot support Packet Switched and Circuit Switched Network simultaneously but can automatically switch between Packet and Circuit Switched Network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| EUT Stage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Production Unit                                                                                          |             |                                               |                                           |                     |  |      |             |         |                 |                   |      |                                                                                                       |         |                   |                   |      |              |         |                                |                                  |      |                                                                                                          |         |                                               |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------|-------------------------------------------|---------------------|--|------|-------------|---------|-----------------|-------------------|------|-------------------------------------------------------------------------------------------------------|---------|-------------------|-------------------|------|--------------|---------|--------------------------------|----------------------------------|------|----------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------|-------------------------------------------|
| <b>Remark:</b> <div>1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.</div> <div>2. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.</div> <div>3. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).</div> <div>4. The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode.</div> <div>5. This device does not support DTM operation and support GRPS/EGRPS mode up to multi-slot class 12.</div> <div>6. For dual SIM card mobile has two SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (single active). After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 slot to perform all tests.</div> <div>7. The device implements receiver detect mechanism trigger reduced power for the power management for SAR compliance at different exposure conditions (head, hotspot, body, and extremity). It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for 2G&amp;3G&amp;4G and Wi-Fi antennas accordingly. The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E and the detailed DSI descriptions of below table.</div> <table><tr><th>DSI</th><th>Trigger Conditions</th><th>Antenna No.</th><th colspan="2">Exposure conditions</th></tr><tr><td>DSI2</td><td>Receiver on</td><td>All Ant</td><td>Head Standalone</td><td>Head all Position</td></tr><tr><td>DSI6</td><td>Receiver on WWAN+ WLAN/BT<br/>Receiver on WWAN+WLAN 5GHz+BT<br/>Receiver on WWAN + WLAN2.4GHz+WLAN 5GHz</td><td>All Ant</td><td>Head Simultaneous</td><td>Head all Position</td></tr><tr><td>DSI1</td><td>Receiver off</td><td>All Ant</td><td>Body Worn/Extremity Standalone</td><td>Body Worn/Extremity all Position</td></tr><tr><td>DSI5</td><td>Receiver off WWAN+ WLAN/BT<br/>Receiver off WWAN+WLAN 5GHz+BT<br/>Receiver off WWAN + WLAN2.4GHz+WLAN 5GHz</td><td>All Ant</td><td>Hotspot<br/>Body-worn / Extremity Simultaneous</td><td>Hotspot/ Body Worn/Extremity all Position</td></tr></table> <div>8. For WLAN when transmit, when transmit simultaneously together with WWAN/BT, the device power will be reduced power at head and extremity exposure conditions.</div> <div>9. This device supports HPUE for LTE Band 41 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.</div> <div>10. 5G NR n41 supports HPUE, HPUE power and SAR testing performed separately.</div> <div>11. 5G NR n41 HUPE with higher power, 5G NR n41 HUPE SAR can represent power class 3 level SAR.</div> <div>12. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.</div> <div>13. For 5G NR EN-DC mode, standalone SAR performed for 5G NR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.</div> <div>14. This device has NFC function and the NFC SAR report will be separately submitted.</div> <div>15. This device supports 5G NR FR1 bands as following table, including NSA mode and SA mode. NSA and SA mode performed SAR separately.</div> |                                                                                                          | DSI         | Trigger Conditions                            | Antenna No.                               | Exposure conditions |  | DSI2 | Receiver on | All Ant | Head Standalone | Head all Position | DSI6 | Receiver on WWAN+ WLAN/BT<br>Receiver on WWAN+WLAN 5GHz+BT<br>Receiver on WWAN + WLAN2.4GHz+WLAN 5GHz | All Ant | Head Simultaneous | Head all Position | DSI1 | Receiver off | All Ant | Body Worn/Extremity Standalone | Body Worn/Extremity all Position | DSI5 | Receiver off WWAN+ WLAN/BT<br>Receiver off WWAN+WLAN 5GHz+BT<br>Receiver off WWAN + WLAN2.4GHz+WLAN 5GHz | All Ant | Hotspot<br>Body-worn / Extremity Simultaneous | Hotspot/ Body Worn/Extremity all Position |
| DSI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Trigger Conditions                                                                                       | Antenna No. | Exposure conditions                           |                                           |                     |  |      |             |         |                 |                   |      |                                                                                                       |         |                   |                   |      |              |         |                                |                                  |      |                                                                                                          |         |                                               |                                           |
| DSI2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Receiver on                                                                                              | All Ant     | Head Standalone                               | Head all Position                         |                     |  |      |             |         |                 |                   |      |                                                                                                       |         |                   |                   |      |              |         |                                |                                  |      |                                                                                                          |         |                                               |                                           |
| DSI6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Receiver on WWAN+ WLAN/BT<br>Receiver on WWAN+WLAN 5GHz+BT<br>Receiver on WWAN + WLAN2.4GHz+WLAN 5GHz    | All Ant     | Head Simultaneous                             | Head all Position                         |                     |  |      |             |         |                 |                   |      |                                                                                                       |         |                   |                   |      |              |         |                                |                                  |      |                                                                                                          |         |                                               |                                           |
| DSI1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Receiver off                                                                                             | All Ant     | Body Worn/Extremity Standalone                | Body Worn/Extremity all Position          |                     |  |      |             |         |                 |                   |      |                                                                                                       |         |                   |                   |      |              |         |                                |                                  |      |                                                                                                          |         |                                               |                                           |
| DSI5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Receiver off WWAN+ WLAN/BT<br>Receiver off WWAN+WLAN 5GHz+BT<br>Receiver off WWAN + WLAN2.4GHz+WLAN 5GHz | All Ant     | Hotspot<br>Body-worn / Extremity Simultaneous | Hotspot/ Body Worn/Extremity all Position |                     |  |      |             |         |                 |                   |      |                                                                                                       |         |                   |                   |      |              |         |                                |                                  |      |                                                                                                          |         |                                               |                                           |

**<5G NR>**

| Mode | Band | Duplex | SCS(KHz) | Bandwidths(BW)                      |
|------|------|--------|----------|-------------------------------------|
| NSA  | n5   | FDD    | 15       | 5, 10, 15, 20                       |
|      | n7   | FDD    | 15       | 5, 10, 15, 20, 25, 30, 40           |
|      | n66  | FDD    | 15       | 5, 10, 15, 20, 30, 40               |
|      | n38  | TDD    | 30       | 10, 15, 20, 30, 40                  |
|      | n41  | TDD    | 30       | 20, 30, 40, 50, 60, 70, 80, 90, 100 |
| SA   | n2   | FDD    | 15       | 5, 10, 15, 20                       |
|      | n5   | FDD    | 15       | 5, 10, 15, 20                       |
|      | n7   | FDD    | 15       | 5, 10, 15, 20, 25, 30, 40           |
|      | n26  | FDD    | 15       | 5, 10, 15, 20                       |
|      | n66  | FDD    | 15       | 5, 10, 15, 20, 30, 40               |
|      | n38  | TDD    | 30       | 10, 15, 20, 30, 40                  |
|      | n41  | TDD    | 30       | 20, 30, 40, 50, 60, 70, 80, 90, 100 |

## 4.2 General LTE SAR Test and Reporting Considerations

| Summarized necessary items addressed in KDB 941225 D05 v02r05           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------|--------|--------|----------|-------------------------------------------------------------------------|--|--|--|--|--|--|--|------------|---------------------------------------------------------------|--|--|--|--|--|----------|---------|---------|-------|--------|--------|--------|------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|---------|-----|--|--|--|--|--|-----|
| FCC ID                                                                  | R9C-OP23051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Equipment Name                                                          | Mobile Phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Operating Frequency Range of each LTE transmission band                 | 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 17: 704 MHz ~ 716 MHz<br>LTE Band 26: 814 MHz ~ 849 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| Channel Bandwidth                                                       | LTE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz<br>LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz<br>LTE Band 13: 5MHz, 10MHz<br>LTE Band 17: 5MHz, 10MHz<br>LTE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz<br>LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz<br>LTE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| uplink modulations used                                                 | QPSK / 16QAM / 64QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE Voice / Data requirements                                           | Voice and Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE Release Version                                                     | R15, Cat13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| CA Support                                                              | Supported, Uplink and Downlink                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE MPR permanently built-in by design                                  | <table><tr><th colspan="8">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</th></tr><tr><th rowspan="2">Modulation</th><th colspan="6">Channel bandwidth / Transmission bandwidth (N<sub>RB</sub>)</th><th rowspan="2">MPR (dB)</th></tr><tr><th>1.4 MHz</th><th>3.0 MHz</th><th>5 MHz</th><th>10 MHz</th><th>15 MHz</th><th>20 MHz</th></tr><tr><td>QPSK</td><td>&gt; 5</td><td>&gt; 4</td><td>&gt; 8</td><td>&gt; 12</td><td>&gt; 16</td><td>&gt; 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 1</td></tr><tr><td>16 QAM</td><td>&gt; 5</td><td>&gt; 4</td><td>&gt; 8</td><td>&gt; 12</td><td>&gt; 16</td><td>&gt; 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>≤ 5</td><td>≤ 4</td><td>≤ 8</td><td>≤ 12</td><td>≤ 16</td><td>≤ 18</td><td>≤ 2</td></tr><tr><td>64 QAM</td><td>&gt; 5</td><td>&gt; 4</td><td>&gt; 8</td><td>&gt; 12</td><td>&gt; 16</td><td>&gt; 18</td><td>≤ 3</td></tr><tr><td>256 QAM</td><td colspan="6">≥ 1</td><td>≤ 5</td></tr></table> |         |       |        |        |        |          | 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 |
| 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, when operating in receiver detect mechanism, head/ body-worn /hotspot/extremity will trigger reduced power for some bands applied to satisfy SAR compliance, the detail please referred to section 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE Carrier Aggregation Combinations                                    | Inter-Band and Intra-Band possible combinations and the detail power verification please referred to section 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |
| LTE Carrier Aggregation Additional Information                          | 1. This device supports LTE Carrier Aggregation (CA) in the uplink for intra-band with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per FCC Guidance.<br>2. This device supports maximum of 3 carriers in the downlink and 2 carriers in the uplink.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |        |        |        |          |                                                                         |  |  |  |  |  |  |  |            |                                                               |  |  |  |  |  |          |         |         |       |        |        |        |      |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |        |     |     |     |      |      |      |     |         |     |  |  |  |  |  |     |



| 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) | 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) | 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) | 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 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 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 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) | 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) | 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        |                  |             |                  |             |



# FCC SAR Test Report

Report No. : FA3O3018

|             |                   |             |                 |             |                 |             |                  |             |                  |             |                  |             |
|-------------|-------------------|-------------|-----------------|-------------|-----------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
| 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        |

**<For LTE Overlap Bands Description>**
**1) LTE Bands BW**

| Band        | 1.4 MHz | 3 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz |
|-------------|---------|-------|-------|--------|--------|--------|
| LTE Band 4  | Yes     | Yes   | Yes   | Yes    | Yes    | Yes    |
| LTE Band 66 | Yes     | Yes   | Yes   | Yes    | Yes    | Yes    |
| LTE Band 12 | Yes     | Yes   | Yes   | Yes    |        |        |
| LTE Band 17 |         |       | Yes   | Yes    |        |        |
| LTE Band 5  | Yes     | Yes   | Yes   | Yes    |        |        |
| LTE Band 26 | Yes     | Yes   | Yes   | Yes    | Yes    |        |

**2) LTE Bands tune up:**

| Band             | Antenna | DSI 1 | DSI 2 | DSI 5 | DSI 6 | Default Tune-up Limit |
|------------------|---------|-------|-------|-------|-------|-----------------------|
| LTE Band 4       | 3       | 22.3  | 19.3  | 20.3  | 17.8  | 24.3                  |
| LTE Band 66      | 3       | 22.3  | 19.3  | 20.3  | 17.8  | 24.3                  |
| LTE Band 4_ENDC  | 3       | 19.3  | 16.3  | 17.3  | 14.8  | 24.3                  |
| LTE Band 66_ENDC | 3       | 19.3  | 16.3  | 17.3  | 14.8  | 24.3                  |
| LTE Band 5       | 1       | 21.5  | 20    | 20    | 19    | 24.5                  |
| LTE Band 26      | 1       | 21.6  | 20.1  | 20.1  | 19.1  | 24.6                  |
| LTE Band 12      | 1       | 24.7  | 24.7  | 22.2  | 23.2  | 24.7                  |
| LTE Band 17      | 1       | 24.7  | 24.7  | 22.2  | 23.2  | 24.7                  |
| LTE Band 4       | 0       | 21.3  | 24.3  | 19.3  | 24.3  | 24.3                  |
| LTE Band 66      | 0       | 21.3  | 24.3  | 19.3  | 24.3  | 24.3                  |
| LTE Band 5       | 0       | 24.5  | 24.5  | 23.5  | 24.5  | 24.5                  |
| LTE Band 26      | 0       | 24.6  | 24.6  | 23.6  | 24.6  | 24.6                  |
| LTE Band 12      | 0       | 24.7  | 24.7  | 24.7  | 24.7  | 24.7                  |
| LTE Band 17      | 0       | 24.7  | 24.7  | 24.2  | 24.7  | 24.7                  |
| LTE Band 4       | 4       | 21.8  | 17.8  | 19.8  | 16.8  | 24.3                  |
| LTE Band 66      | 4       | 21.8  | 17.8  | 19.8  | 16.8  | 24.3                  |
| LTE Band 4_ENDC  | 4       | 18.8  | 14.8  | 16.8  | 13.8  | 24.3                  |
| LTE Band 66_ENDC | 4       | 18.8  | 14.8  | 16.8  | 13.8  | 24.3                  |

### 4.3 General 5G NR SAR Test and Reporting Considerations

| 5G NR Information                                         |                                                                                                                                                                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Frequency Range of each 5G NR transmission band | 5G NR n2: 1850 MHz ~ 1910 MHz<br>5G NR n5: 824 MHz ~ 849 MHz<br>5G NR n7: 2500 MHz ~ 2570 MHz<br>5G NR n26: 814 MHz ~ 849 MHz<br>5G NR n66: 1710 MHz ~ 1780 MHz<br>5G NR n38: 2570 MHz ~ 2620 MHz<br>5G NR n41: 2496 MHz ~ 2690 MHz |
| Channel Bandwidth                                         | The detail please refers to section 4.1 5G NR FR1 bands table.                                                                                                                                                                      |
| SCS                                                       | FDD: SCS15KHz, TDD: SCS30KHz                                                                                                                                                                                                        |
| uplink modulations used                                   | DFT-s-OFDM: QPSK / 16QAM / 64QAM / 256QAM<br>CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM                                                                                                                                                 |
| A-MPR (Additional MPR) disabled for SAR Testing?          | Yes                                                                                                                                                                                                                                 |
| LTE Anchor Bands for n5                                   | LTE B7/66                                                                                                                                                                                                                           |
| LTE Anchor Bands for n7                                   | LTE B2/4/66                                                                                                                                                                                                                         |
| LTE Anchor Bands for n41                                  | LTE B4/66                                                                                                                                                                                                                           |
| LTE Anchor Bands for n66                                  | LTE B2/5/7/12                                                                                                                                                                                                                       |
| LTE Anchor Bands for n38                                  | LTE B4/5/66                                                                                                                                                                                                                         |

| Transmission (H, M, L) channel numbers and frequencies in each 5G NR band |                |             |                 |             |                 |             |                 |             |
|---------------------------------------------------------------------------|----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| NR Band 2                                                                 |                |             |                 |             |                 |             |                 |             |
|                                                                           | Bandwidth 5MHz |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|                                                                           | Ch. #          | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L                                                                         | 370500         | 1852.5      | 371000          | 1855        | 371500          | 1857.5      | 372000          | 1860        |
| M                                                                         | 376000         | 1880        | 376000          | 1880        | 376000          | 1880        | 376000          | 1880        |
| H                                                                         | 381500         | 1907.5      | 381000          | 1905        | 380500          | 1902.5      | 380000          | 1900        |

| NR Band 5 |                |             |                 |             |                 |             |                 |             |
|-----------|----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
|           | Bandwidth 5MHz |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|           | Ch. #          | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L         | 165300         | 826.5       | 165800          | 829         | 166300          | 831.5       | 166800          | 834         |
| M         | 167300         | 836.5       | 167300          | 836.5       | 167300          | 836.5       | 167300          | 836.5       |
| H         | 169300         | 846.5       | 168800          | 844         | 168300          | 841.5       | 167800          | 839         |

| NR Band 7 |                   |                |                    |                |                    |                |                    |                |                    |                |                    |                |                    |                |
|-----------|-------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|
|           | Bandwidth<br>5MHz |                | Bandwidth<br>10MHz |                | Bandwidth<br>15MHz |                | Bandwidth<br>20MHz |                | Bandwidth<br>25MHz |                | Bandwidth<br>30MHz |                | Bandwidth<br>40MHz |                |
|           | Ch. #             | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) | Ch. #              | Freq.<br>(MHz) |
| L         | 500500            | 2502.5         | 501000             | 2505           | 501500             | 2507.5         | 502000             | 2510           | 502500             | 2512.5         | 503000             | 2515           | 504000             | 2520           |
| M         | 507000            | 2535           | 507000             | 2535           | 507000             | 2535           | 507000             | 2535           | 507000             | 2535           | 507000             | 2535           | 507000             | 2535           |
| H         | 513500            | 2567.5         | 513000             | 2565           | 512500             | 2562.5         | 512000             | 2560           | 511500             | 2557.5         | 511000             | 2555           | 510000             | 2550           |

| NR Band 26 |                |             |                 |             |                 |             |                 |             |
|------------|----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
|            | Bandwidth 5MHz |             | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             |
|            | Ch. #          | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L          | 163300         | 816.5       | 163800          | 819         | 164300          | 821.5       | 164800          | 824         |
| M          | 166300         | 831.5       | 166300          | 831.5       | 166300          | 831.5       | 166300          | 831.5       |
| H          | 169300         | 846.5       | 168800          | 844         | 168300          | 841.5       | 167800          | 839         |

| NR Band 66 |                   |             |                    |             |                    |             |                    |             |                    |             |                    |             |
|------------|-------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|--------------------|-------------|
|            | Bandwidth<br>5MHz |             | Bandwidth<br>10MHz |             | Bandwidth<br>15MHz |             | Bandwidth<br>20MHz |             | Bandwidth<br>30MHz |             | Bandwidth<br>40MHz |             |
|            | Ch. #             | Freq. (MHz) | Ch. #              | Freq. (MHz) | Ch. #              | Freq. (MHz) | Ch. #              | Freq. (MHz) | Ch. #              | Freq. (MHz) | Ch. #              | Freq. (MHz) |
| L          | 342500            | 1712.5      | 343000             | 1715        | 343500             | 1717.5      | 344000             | 1720        | 345000             | 1725        | 346000             | 1730        |
| M          | 349000            | 1745        | 349000             | 1745        | 349000             | 1745        | 349000             | 1745        | 349000             | 1745        | 349000             | 1745        |
| H          | 355500            | 1777.5      | 355000             | 1775        | 354500             | 1772.5      | 354000             | 1770        | 353000             | 1765        | 352000             | 1760        |

| NR Band 38 |                 |             |                 |             |                 |             |                 |             |                 |             |
|------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
|            | Bandwidth 10MHz |             | Bandwidth 15MHz |             | Bandwidth 20MHz |             | Bandwidth 30MHz |             | Bandwidth 40MHz |             |
|            | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) |
| L          | 515004          | 2575.02     | 515502          | 2577.51     | 516000          | 2580        | 517002          | 2585.01     | 518004          | 2590.02     |
| M          | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        | 519000          | 2595        |
| H          | 522996          | 2614.98     | 522498          | 2612.49     | 522000          | 2610        | 520998          | 2604.99     | 519996          | 2599.98     |



| NR Band 41      |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                 |             |                  |             |
|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|------------------|-------------|
| Bandwidth 20MHz |             | Bandwidth 30MHz |             | Bandwidth 40MHz |             | Bandwidth 50MHz |             | Bandwidth 60MHz |             | Bandwidth 70MHz |             | Bandwidth 80MHz |             | Bandwidth 90MHz |             | Bandwidth 100MHz |             |
| Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #           | Freq. (MHz) | Ch. #            | Freq. (MHz) |
| L 501204        | 2506.02     | 502200          | 2511        | 503202          | 2516.01     | 504204          | 2521.02     | 505200          | 2526        | 500202          | 2501.01     | 507204          | 2536.02     | 508200          | 2541        | 509202           | 2546.01     |
| M 518598        | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598          | 2592.99     | 518598           | 2592.99     |
| H 535998        | 2679.99     | 534996          | 2674.98     | 534000          | 2670        | 532998          | 2664.99     | 531996          | 2659.98     | 537000          | 2685        | 529998          | 2649.99     | 528996          | 2644.98     | 528000           | 2640        |

### <For NR Overlap Bands Description>

#### 1) NR Bands BW

|    | Band | Duplex | SCS(KHz) | Bandwidths(BW) |
|----|------|--------|----------|----------------|
| NR | n5   | FDD    | 15       | 5 10 15 20     |
|    | n26  | FDD    | 15       | 5 10 15 20     |

#### 2) NR Bands Tune up:

| Band | Antenna | DSI 1 | DSI 2 | DSI 5 | DSI 6 | Default Tune-up Limit |
|------|---------|-------|-------|-------|-------|-----------------------|
| n5   | 1       | 22.7  | 21.2  | 21.2  | 19.7  | 24.7                  |
| n26  | 1       | 22.7  | 21.2  | 21.2  | 19.7  | 24.7                  |
| n5   | 0       | 24.7  | 24.7  | 23.2  | 24.7  | 24.7                  |
| n26  | 0       | 24.7  | 24.7  | 23.2  | 24.7  | 24.7                  |

## 5. RF Exposure Limits

### 5.1 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.

### 5.2 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                            |

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.

## 6. Specific Absorption Rate (SAR)

### 6.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

### 6.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density ( $\rho$ ). The equation description is as below:

$$SAR = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dv} \right)$$

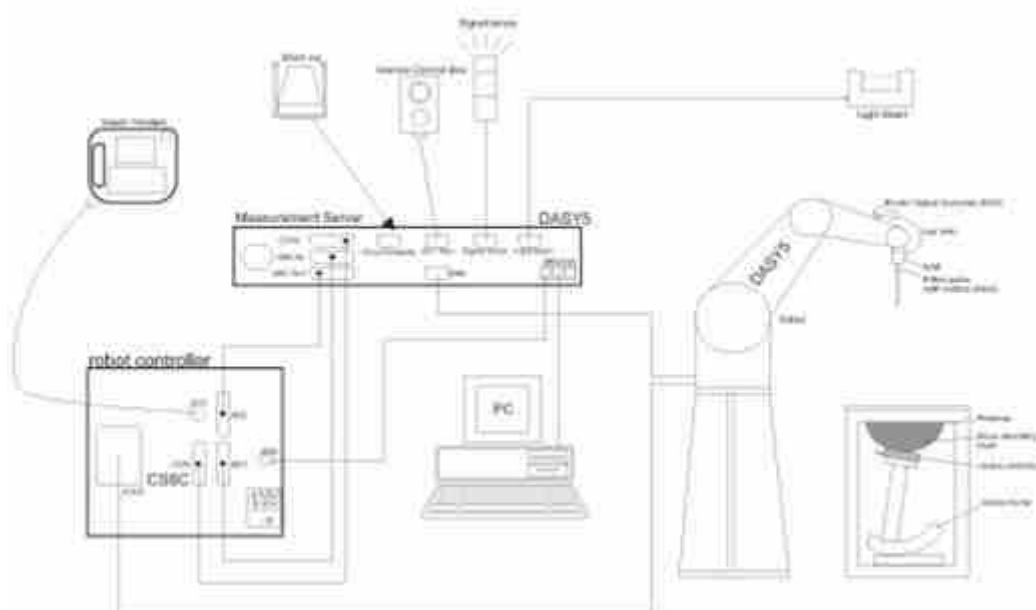
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

## 7. System Description and Setup

The DASY5 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

## 7.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

### <EX3DV4 Probe>

|                      |                                                                                                                                                           |                                                                                    |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Construction</b>  | Symmetric design with triangular core<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |  |
| <b>Frequency</b>     | 10 MHz – >6 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz – 6 GHz)                                                                                               |                                                                                    |
| <b>Directivity</b>   | $\pm 0.3$ dB in TSL (rotation around probe axis)<br>$\pm 0.5$ dB in TSL (rotation normal to probe axis)                                                   |                                                                                    |
| <b>Dynamic Range</b> | 10 $\mu$ W/g – >100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically <1 $\mu$ W/g)                                                                       |                                                                                    |
| <b>Dimensions</b>    | Overall length: 337 mm (tip: 20 mm)<br>Tip diameter: 2.5 mm (body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                      |                                                                                    |

## 7.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



**Photo of DAE**

### 7.3 Phantom

#### <SAM Twin Phantom>

|                          |                                                         |                                                                                    |
|--------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Shell Thickness</b>   | 2 ± 0.2 mm;<br>Center ear point: 6 ± 0.2 mm             |  |
| <b>Filling Volume</b>    | Approx. 25 liters                                       |                                                                                    |
| <b>Dimensions</b>        | Length: 1000 mm; Width: 500 mm; Height: adjustable feet |                                                                                    |
| <b>Measurement Areas</b> | Left Hand, Right Hand, Flat Phantom                     |                                                                                    |

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

#### <ELI Phantom>

|                        |                                                  |                                                                                     |
|------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Shell Thickness</b> | 2 ± 0.2 mm (sagging: <1%)                        |  |
| <b>Filling Volume</b>  | Approx. 30 liters                                |                                                                                     |
| <b>Dimensions</b>      | Major ellipse axis: 600 mm<br>Minor axis: 400 mm |                                                                                     |

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

## 7.4 Device Holder

### <Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

### <Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

## 8. Measurement Procedures

The measurement procedures are as follows:

### <Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

### <SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

### 8.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

## 8.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

## 8.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

|                                                                                                        | $\leq 3$ GHz                                                                                                                                                                                                                                                           | $> 3$ GHz                                              |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | $5 \pm 1$ mm                                                                                                                                                                                                                                                           | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm     |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location              | $30^\circ \pm 1^\circ$                                                                                                                                                                                                                                                 | $20^\circ \pm 1^\circ$                                 |
| Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$                 | $\leq 2$ GHz: $\leq 15$ mm<br>$2 - 3$ GHz: $\leq 12$ mm                                                                                                                                                                                                                | $3 - 4$ GHz: $\leq 12$ mm<br>$4 - 6$ GHz: $\leq 10$ mm |
|                                                                                                        | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                        |

## 8.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

|                                                                                                                                                                                                                                                                                                             |                                           |                                                                                             | $\leq 3$ GHz                                          | $> 3$ GHz                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------|
| Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$                                                                                                                                                                                                                      |                                           |                                                                                             | $\leq 2$ GHz: $\leq 8$ mm<br>2 – 3 GHz: $\leq 5$ mm * | 3 – 4 GHz: $\leq 5$ mm*<br>4 – 6 GHz: $\leq 4$ mm*                            |
| Maximum zoom scan spatial resolution, normal to phantom surface                                                                                                                                                                                                                                             | uniform grid: $\Delta z_{\text{Zoom}}(n)$ |                                                                                             | $\leq 5$ mm                                           | 3 – 4 GHz: $\leq 4$ mm<br>4 – 5 GHz: $\leq 3$ mm<br>5 – 6 GHz: $\leq 2$ mm    |
|                                                                                                                                                                                                                                                                                                             | graded grid                               | $\Delta z_{\text{Zoom}}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | $\leq 4$ mm                                           | 3 – 4 GHz: $\leq 3$ mm<br>4 – 5 GHz: $\leq 2.5$ mm<br>5 – 6 GHz: $\leq 2$ mm  |
|                                                                                                                                                                                                                                                                                                             |                                           | $\Delta z_{\text{Zoom}}(n>1)$ : between subsequent points                                   | $\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$          |                                                                               |
| Minimum zoom scan volume                                                                                                                                                                                                                                                                                    | x, y, z                                   |                                                                                             | $\geq 30$ mm                                          | 3 – 4 GHz: $\geq 28$ mm<br>4 – 5 GHz: $\geq 25$ mm<br>5 – 6 GHz: $\geq 22$ mm |
| Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.                                                                                                                                                           |                                           |                                                                                             |                                                       |                                                                               |
| * When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is $\leq 1.4$ W/kg, $\leq 8$ mm, $\leq 7$ mm and $\leq 5$ mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. |                                           |                                                                                             |                                                       |                                                                               |

## 8.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

## 8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASy measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

## 9. Test Equipment List

| Manufacturer  | Name of Equipment               | Type/Model    | Serial Number | Calibration   |               |
|---------------|---------------------------------|---------------|---------------|---------------|---------------|
|               |                                 |               |               | Last Cal.     | Due Date      |
| SPEAG         | 750MHz System Validation Kit    | D750V3        | 1099          | Dec. 15, 2021 | Dec. 14, 2024 |
| SPEAG         | 835MHz System Validation Kit    | D835V2        | 4d162         | Dec. 17, 2021 | Dec. 16, 2024 |
| SPEAG         | 1750MHz System Validation Kit   | D1750V2       | 1137          | Oct. 19, 2021 | Oct. 17, 2024 |
| SPEAG         | 1900MHz System Validation Kit   | D1900V2       | 5d182         | Dec. 20, 2021 | Dec. 19, 2024 |
| SPEAG         | 2450MHz System Validation Kit   | D2450V2       | 1040          | Apr. 25, 2023 | Apr. 24, 2024 |
| SPEAG         | 2600MHz System Validation Kit   | D2600V2       | 1070          | Dec. 20, 2021 | Dec. 19, 2024 |
| SPEAG         | 5000MHz System Validation Kit   | D5GHzV2       | 1341          | Dec. 13, 2021 | Dec. 12, 2024 |
| SPEAG         | Data Acquisition Electronics    | DAE4          | 1386          | Jul. 17, 2023 | Jul. 16, 2024 |
| SPEAG         | Dosimetric E-Field Probe        | EX3DV4        | 7576          | Aug. 23, 2023 | Aug. 22, 2024 |
| SPEAG         | SAM Twin Phantom                | QD 000 P40 CD | 1671          | NCR           | NCR           |
| SPEAG         | Phone Positioner                | N/A           | N/A           | NCR           | NCR           |
| Anritsu       | Radio communication analyzer    | MT8820C       | 6201300653    | Jul. 05, 2023 | Jul. 04, 2024 |
| Anritsu       | Radio communication analyzer    | MT8821C       | 6262314715    | Jul. 05, 2023 | Jul. 04, 2024 |
| Agilent       | Wireless Communication Test Set | E5515C        | MY50267224    | Jul. 05, 2023 | Jul. 04, 2024 |
| Keysight      | Network Analyzer                | E5071C        | MY46523671    | Oct. 16, 2023 | Oct. 15, 2024 |
| Speag         | Dielectric Assessment KIT       | DAK-3.5       | 1071          | Feb. 20, 2023 | Feb. 19, 2024 |
| Agilent       | Signal Generator                | N5181A        | MY50145381    | Dec. 27, 2022 | Dec. 26, 2023 |
| Anritsu       | Power Sensor                    | MA2411B       | 1542004       | Dec. 27, 2022 | Dec. 26, 2023 |
| Anritsu       | Power Meter                     | ML2495A       | 1339473       | Dec. 27, 2022 | Dec. 26, 2023 |
| R&S           | Power Sensor                    | NRP50S        | 101254        | Apr. 06, 2023 | Apr. 05, 2024 |
| R&S           | Power Sensor                    | NRP8S         | 109228        | Apr. 06, 2023 | Apr. 05, 2024 |
| R&S           | CBT BLUETOOTH TESTER            | CBT           | 100963        | Dec. 27, 2022 | Dec. 26, 2023 |
| R&S           | Spectrum Analyzer               | FSP7          | 100818        | Jul. 05, 2023 | Jul. 04, 2024 |
| TES           | Hygrometer                      | 1310          | 200505600     | Jul. 08, 2023 | Jul. 07, 2024 |
| Anymetre      | Thermo-Hygrometer               | JR593         | 2015030904    | Jul. 08, 2023 | Jul. 07, 2024 |
| SPEAG         | Device Holder                   | N/A           | N/A           | N/A           | N/A           |
| AR            | Amplifier                       | 5S1G4         | 0333096       | Note 1        |               |
| Mini-Circuits | Amplifier                       | ZVE-3W-83+    | 599201528     | Note 1        |               |
| Mini-Circuits | Amplifier                       | ZVA-183W-S+   | 726202215     | Note 1        |               |
| ARRA          | Power Divider                   | A3200-2       | N/A           | Note 1        |               |
| ET Industries | Dual Directional Coupler        | C-058-10      | N/A           | Note 1        |               |
| Weinschel     | Attenuator 1                    | 3M-10         | N/A           | Note 1        |               |
| Weinschel     | Attenuator 2                    | 3M-20         | N/A           | Note 1        |               |

### Note:

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data of dipole can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

## 10. System Verification

### 10.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 11.2.



**Fig 11.1 Photo of Liquid Height for Head SAR**



**Fig 11.2 Photo of Liquid Height for Body SAR**

### 10.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

| Frequency (MHz)  | Water (%) | Sugar (%) | Cellulose (%) | Salt (%) | Preventol (%) | DGBE (%) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) |
|------------------|-----------|-----------|---------------|----------|---------------|----------|---------------------------|-------------------------------|
| For Head         |           |           |               |          |               |          |                           |                               |
| 750              | 41.1      | 57.0      | 0.2           | 1.4      | 0.2           | 0        | 0.89                      | 41.9                          |
| 835              | 40.3      | 57.9      | 0.2           | 1.4      | 0.2           | 0        | 0.90                      | 41.5                          |
| 1800, 1900, 2000 | 55.2      | 0         | 0             | 0.3      | 0             | 44.5     | 1.40                      | 40.0                          |
| 2450             | 55.0      | 0         | 0             | 0        | 0             | 45.0     | 1.80                      | 39.2                          |
| 2600             | 54.8      | 0         | 0             | 0.1      | 0             | 45.1     | 1.96                      | 39.0                          |

Simulating Liquid for 5GHz, Manufactured by SPEAG

| Ingredients        | (% by weight) |
|--------------------|---------------|
| Water              | 64~78%        |
| Mineral oil        | 11~18%        |
| Emulsifiers        | 9~15%         |
| Additives and Salt | 2~3%          |

**<Tissue Dielectric Parameter Check Results>**

| Frequency (MHz) | Tissue Type | Liquid Temp. (°C) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) | Conductivity Target ( $\sigma$ ) | Permittivity Target ( $\epsilon_r$ ) | Delta ( $\sigma$ ) (%) | Delta ( $\epsilon_r$ ) (%) | Limit (%) | Date       |
|-----------------|-------------|-------------------|---------------------------|-------------------------------|----------------------------------|--------------------------------------|------------------------|----------------------------|-----------|------------|
| 750             | Head        | 22.6              | 0.885                     | 40.799                        | 0.89                             | 41.90                                | -0.56                  | -2.63                      | ±5        | 2023/11/16 |
| 750             | Head        | 22.3              | 0.887                     | 40.873                        | 0.89                             | 41.90                                | -0.34                  | -2.45                      | ±5        | 2023/11/17 |
| 835             | Head        | 22.4              | 0.914                     | 41.826                        | 0.90                             | 41.50                                | 1.56                   | 0.79                       | ±5        | 2023/11/19 |
| 835             | Head        | 22.6              | 0.911                     | 42.404                        | 0.90                             | 41.50                                | 1.22                   | 2.18                       | ±5        | 2023/11/27 |
| 1750            | Head        | 22.5              | 1.356                     | 38.633                        | 1.37                             | 40.10                                | -1.02                  | -3.66                      | ±5        | 2023/11/14 |
| 1750            | Head        | 22.6              | 1.350                     | 39.254                        | 1.37                             | 40.10                                | -1.46                  | -2.11                      | ±5        | 2023/11/26 |
| 1900            | Head        | 22.5              | 1.449                     | 40.009                        | 1.40                             | 40.00                                | 3.50                   | 0.02                       | ±5        | 2023/11/16 |
| 1900            | Head        | 22.5              | 1.453                     | 39.107                        | 1.40                             | 40.00                                | 3.79                   | -2.23                      | ±5        | 2023/11/25 |
| 2450            | Head        | 22.7              | 1.825                     | 39.664                        | 1.80                             | 39.20                                | 1.39                   | 1.18                       | ±5        | 2023/11/11 |
| 2450            | Head        | 22.2              | 1.810                     | 37.626                        | 1.80                             | 39.20                                | 0.56                   | -4.02                      | ±5        | 2023/11/28 |
| 2600            | Head        | 22.4              | 2.056                     | 37.589                        | 1.96                             | 39.00                                | 4.90                   | -3.62                      | ±5        | 2023/11/14 |
| 2600            | Head        | 22.7              | 2.053                     | 37.984                        | 1.96                             | 39.00                                | 4.74                   | -2.61                      | ±5        | 2023/11/29 |
| 5250            | Head        | 22.2              | 4.673                     | 35.938                        | 4.71                             | 35.95                                | -0.79                  | -0.03                      | ±5        | 2023/11/20 |
| 5250            | Head        | 22.3              | 4.764                     | 36.965                        | 4.71                             | 35.95                                | 1.15                   | 2.82                       | ±5        | 2023/11/27 |
| 5600            | Head        | 22.3              | 5.080                     | 35.374                        | 5.07                             | 35.50                                | 0.20                   | -0.35                      | ±5        | 2023/11/23 |
| 5600            | Head        | 22.4              | 5.207                     | 36.212                        | 5.07                             | 35.50                                | 2.70                   | 2.01                       | ±5        | 2023/11/30 |
| 5750            | Head        | 22.5              | 5.250                     | 35.137                        | 5.22                             | 35.35                                | 0.57                   | -0.60                      | ±5        | 2023/11/24 |
| 5750            | Head        | 22.8              | 5.382                     | 35.934                        | 5.22                             | 35.35                                | 3.10                   | 1.65                       | ±5        | 2023/11/29 |

### 10.3 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

#### <1g SAR>

| Date       | Frequency (MHz) | Tissue Type | Input Power (mW) | Dipole S/N | Probe S/N | DAE S/N | Measured 1g SAR (W/kg) | Targeted 1g SAR (W/kg) | Normalized 1g SAR (W/kg) | Deviation (%) |
|------------|-----------------|-------------|------------------|------------|-----------|---------|------------------------|------------------------|--------------------------|---------------|
| 2023/11/16 | 750             | Head        | 250              | 1099       | 7576      | 1386    | 2.250                  | 8.540                  | 8.8                      | 3.04          |
| 2023/11/17 | 750             | Head        | 250              | 1099       | 7576      | 1386    | 2.190                  | 8.540                  | 8.76                     | 2.58          |
| 2023/11/19 | 835             | Head        | 250              | 4d162      | 7576      | 1386    | 2.530                  | 9.640                  | 10.12                    | 4.98          |
| 2023/11/27 | 835             | Head        | 250              | 4d162      | 7576      | 1386    | 2.440                  | 9.640                  | 9.76                     | 1.24          |
| 2023/11/14 | 1750            | Head        | 250              | 1137       | 7576      | 1386    | 9.140                  | 36.500                 | 36.56                    | 0.16          |
| 2023/11/26 | 1750            | Head        | 250              | 1137       | 7576      | 1386    | 9.510                  | 36.500                 | 38.04                    | 4.22          |
| 2023/11/16 | 1900            | Head        | 250              | 5d182      | 7576      | 1386    | 9.950                  | 39.600                 | 39.8                     | 0.51          |
| 2023/11/25 | 1900            | Head        | 250              | 5d182      | 7576      | 1386    | 10.500                 | 39.600                 | 42                       | 6.06          |
| 2023/11/11 | 2450            | Head        | 250              | 1040       | 7576      | 1386    | 12.900                 | 52.700                 | 51.6                     | -2.09         |
| 2023/11/28 | 2450            | Head        | 250              | 1040       | 7576      | 1386    | 13.100                 | 52.700                 | 52.4                     | -0.57         |
| 2023/11/14 | 2600            | Head        | 250              | 1070       | 7576      | 1386    | 14.400                 | 56.200                 | 57.6                     | 2.49          |
| 2023/11/29 | 2600            | Head        | 250              | 1070       | 7576      | 1386    | 13.700                 | 56.200                 | 54.8                     | -2.49         |
| 2023/11/20 | 5250            | Head        | 100              | 1341       | 7576      | 1386    | 8.250                  | 80.700                 | 82.5                     | 2.23          |
| 2023/11/27 | 5250            | Head        | 100              | 1341       | 7576      | 1386    | 8.110                  | 80.700                 | 81.1                     | 0.50          |
| 2023/11/23 | 5600            | Head        | 100              | 1341       | 7576      | 1386    | 8.050                  | 84.500                 | 80.5                     | -4.73         |
| 2023/11/30 | 5600            | Head        | 100              | 1341       | 7576      | 1386    | 8.150                  | 84.500                 | 81.5                     | -3.55         |
| 2023/11/24 | 5750            | Head        | 100              | 1341       | 7576      | 1386    | 7.520                  | 80.600                 | 75.2                     | -6.70         |
| 2023/11/29 | 5750            | Head        | 100              | 1341       | 7576      | 1386    | 7.790                  | 80.600                 | 77.9                     | -3.35         |

#### <10g SAR>

| Date       | Frequency (MHz) | Tissue Type | Input Power (mW) | Dipole S/N | Probe S/N | DAE S/N | Measured 10g SAR (W/kg) | Targeted 10g SAR (W/kg) | Normalized 10g SAR (W/kg) | Deviation (%) |
|------------|-----------------|-------------|------------------|------------|-----------|---------|-------------------------|-------------------------|---------------------------|---------------|
| 2023/11/16 | 750             | Head        | 250              | 1099       | 7576      | 1386    | 1.480                   | 5.650                   | 5.92                      | 4.78          |
| 2023/11/17 | 750             | Head        | 250              | 1099       | 7576      | 1386    | 1.460                   | 5.650                   | 5.84                      | 3.36          |
| 2023/11/19 | 835             | Head        | 250              | 4d162      | 7576      | 1386    | 1.640                   | 6.260                   | 6.56                      | 4.79          |
| 2023/11/27 | 835             | Head        | 250              | 4d162      | 7576      | 1386    | 1.590                   | 6.260                   | 6.36                      | 1.60          |
| 2023/11/14 | 1750            | Head        | 250              | 1137       | 7576      | 1386    | 5.060                   | 19.200                  | 20.24                     | 5.42          |
| 2023/11/26 | 1750            | Head        | 250              | 1137       | 7576      | 1386    | 5.070                   | 19.200                  | 20.28                     | 5.63          |
| 2023/11/16 | 1900            | Head        | 250              | 5d182      | 7576      | 1386    | 5.190                   | 20.200                  | 20.76                     | 2.77          |
| 2023/11/25 | 1900            | Head        | 250              | 5d182      | 7576      | 1386    | 5.330                   | 20.200                  | 21.32                     | 5.54          |
| 2023/11/11 | 2450            | Head        | 250              | 1040       | 7576      | 1386    | 5.990                   | 24.600                  | 23.96                     | -2.60         |
| 2023/11/28 | 2450            | Head        | 250              | 1040       | 7576      | 1386    | 6.120                   | 24.600                  | 24.48                     | -0.49         |
| 2023/11/14 | 2600            | Head        | 250              | 1070       | 7576      | 1386    | 6.580                   | 24.600                  | 26.32                     | 6.99          |
| 2023/11/29 | 2600            | Head        | 250              | 1070       | 7576      | 1386    | 5.960                   | 24.600                  | 23.84                     | -3.09         |
| 2023/11/20 | 5250            | Head        | 100              | 1341       | 7576      | 1386    | 2.390                   | 23.100                  | 23.9                      | 3.46          |
| 2023/11/27 | 5250            | Head        | 100              | 1341       | 7576      | 1386    | 2.250                   | 23.100                  | 22.5                      | -2.60         |
| 2023/11/23 | 5600            | Head        | 100              | 1341       | 7576      | 1386    | 2.280                   | 24.000                  | 22.8                      | -5.00         |
| 2023/11/30 | 5600            | Head        | 100              | 1341       | 7576      | 1386    | 2.330                   | 24.000                  | 23.3                      | -2.92         |
| 2023/11/24 | 5750            | Head        | 100              | 1341       | 7576      | 1386    | 2.120                   | 22.700                  | 21.2                      | -6.61         |
| 2023/11/29 | 5750            | Head        | 100              | 1341       | 7576      | 1386    | 2.190                   | 22.700                  | 21.9                      | -3.52         |

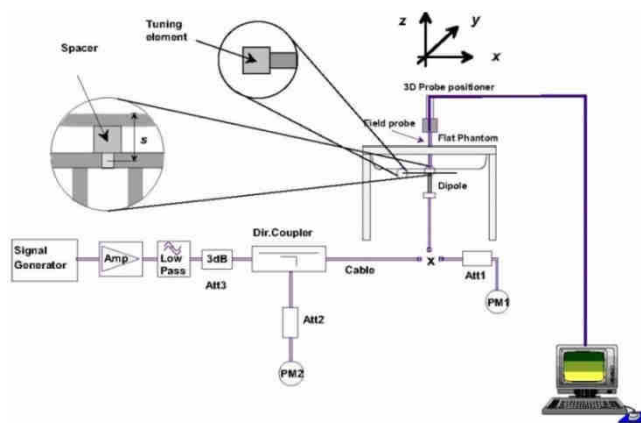


Fig 11.3.1 System Performance Check Setup



Fig 11.3.2 Setup Photo

## 11. RF Exposure Positions

### 11.1 Ear and handset reference point

Figure 12.1.1 shows the front, back, and side views of the SAM phantom. The center-of-mouth reference point is labeled "M," the left ear reference point (ERP) is marked "LE," and the right ERP is marked "RE." Each ERP is 15 mm along the B-M (back-mouth) line behind the entrance-to-ear-canal (EEC) point, as shown in Figure 12.1.2 The Reference Plane is defined as passing through the two ear reference points and point M. The line N-F (neck-front), also called the reference pivoting line, is normal to the Reference Plane and perpendicular to both a line passing through RE and LE and the B-M line (see Figure 12.1.3). Both N-F and B-M lines should be marked on the exterior of the phantom shell to facilitate handset positioning. Posterior to the N-F line the ear shape is a flat surface with 6 mm thickness at each ERP, and forward of the N-F line the ear is truncated, as illustrated in Figure 12.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

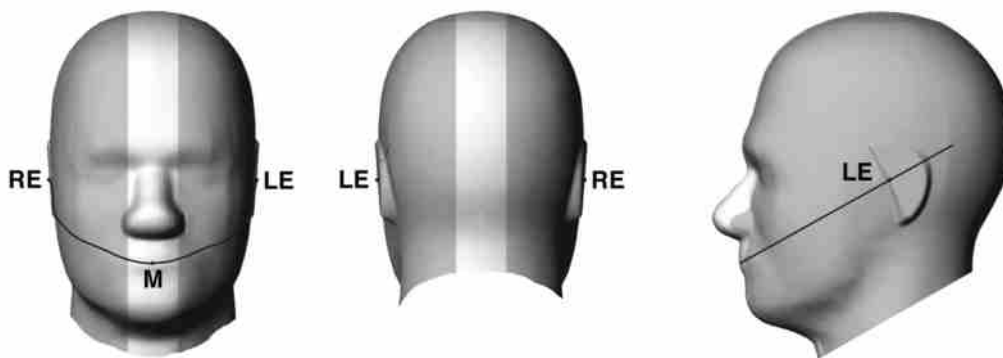


Fig 12.1.1 Front, back, and side views of SAM twin phantom

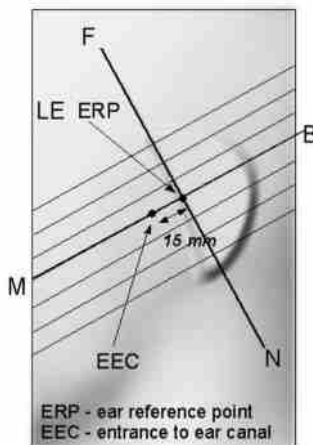


Fig 12.1.2 Close-up side view of phantom showing the ear region.

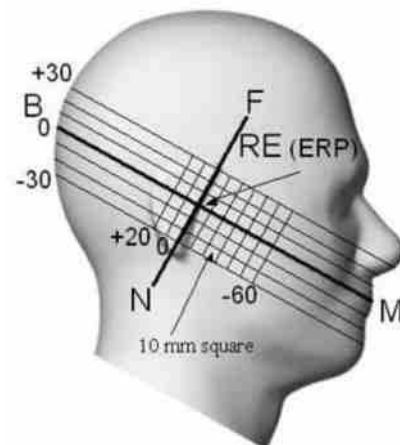
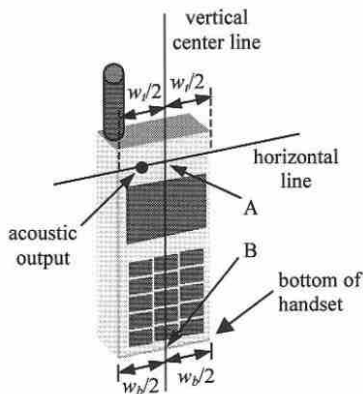


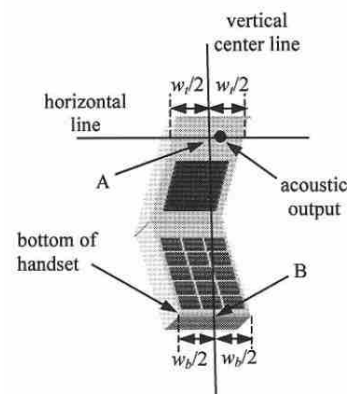
Fig 12.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

## 11.2 Definition of the cheek position

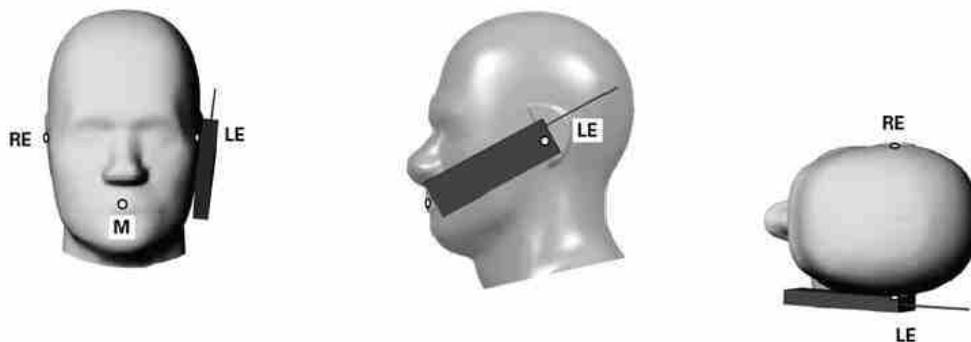
1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. Define two imaginary lines on the handset—the vertical centerline and the horizontal line. The vertical centerline passes through two points on the front side of the handset—the midpoint of the width  $w_t$  of the handset at the level of the acoustic output (point A in Figure 12.2.1 and Figure 12.2.2), and the midpoint of the width  $w_b$  of the bottom of the handset (point B). The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output (see Figure 12.2.1). The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily parallel to the front face of the handset (see Figure 12.2.2), especially for clamshell handsets, handsets with flip covers, and other irregularly-shaped handsets.
3. Position the handset close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 12.2.3), such that the plane defined by the vertical centerline and the horizontal line of the handset is approximately parallel to the sagittal plane of the phantom.
4. Translate the handset towards the phantom along the line passing through RE and LE until handset point A touches the pinna at the ERP.
5. While maintaining the handset in this plane, rotate it around the LE-RE line until the vertical centerline is in the plane normal to the plane containing B-M and N-F lines, i.e., the Reference Plane.
6. Rotate the handset around the vertical centerline until the handset (horizontal line) is parallel to the N-F line.
7. While maintaining the vertical centerline in the Reference Plane, keeping point A on the line passing through RE and LE, and maintaining the handset contact with the pinna, rotate the handset about the N-F line until any point on the handset is in contact with a phantom point below the pinna on the cheek. See Figure 12.2.3. The actual rotation angles should be documented in the test report.



**Fig 12.2.1 Handset vertical and horizontal reference lines—“fixed case”**



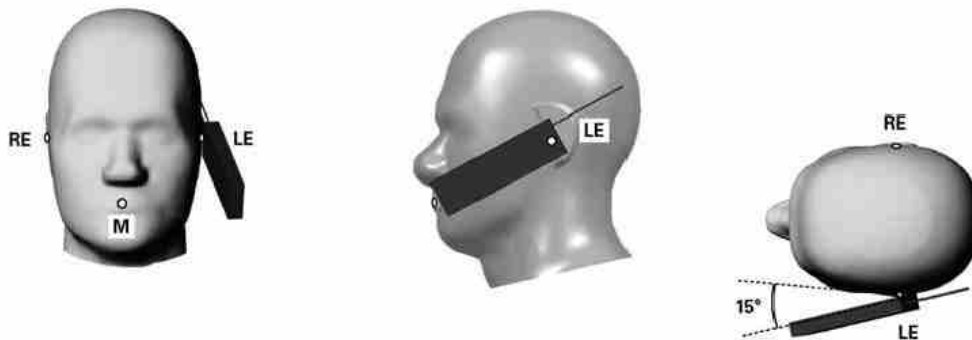
**Fig 12.2.2 Handset vertical and horizontal reference lines—“clam-shell case”**



**Fig 12.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.**

### 11.3 Definition of the tilt position

1. Ready the handset for talk operation, if necessary. For example, for handsets with a cover piece (flip cover), open the cover. If the handset can transmit with the cover closed, both configurations must be tested.
2. While maintaining the orientation of the handset, move the handset away from the pinna along the line passing through RE and LE far enough to allow a rotation of the handset away from the cheek by 15°.
3. Rotate the handset around the horizontal line by 15°.
4. While maintaining the orientation of the handset, move the handset towards the phantom on the line passing through RE and LE until any part of the handset touches the ear. The tilt position is obtained when the contact point is on the pinna. See Figure 12.3.1. If contact occurs at any location other than the pinna, e.g., the antenna at the back of the phantom head, the angle of the handset should be reduced. In this case, the tilt position is obtained if any point on the handset is in contact with the pinna and a second point

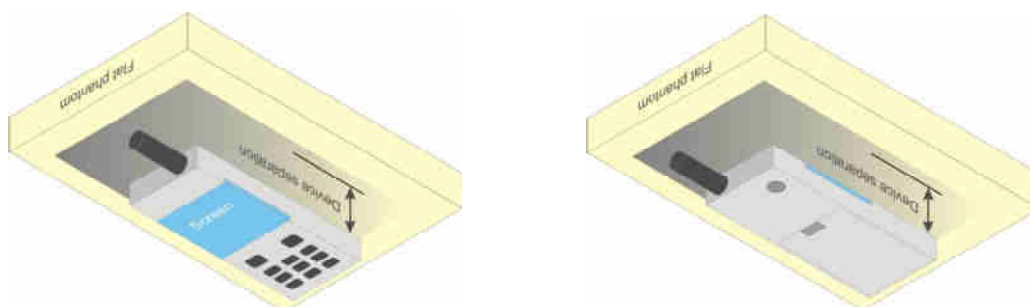


**Fig 12.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.**

## 11.4 Body Worn Accessory

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 11.4). Per KDB648474 D04v01r03, body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for body-worn accessory, measured without a headset connected to the handset is  $> 1.2 \text{ W/kg}$ , the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are test with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.



**Fig 12.4 Body Worn Position**

### 11.5 Product Specific 10g SAR Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, According to KDB648474 D04v01r03, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance

1. The normally required head and body-worn accessory SAR test procedures for handsets, including hotspot mode, must be applied.
2. The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq 25$  mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions.<sup>6</sup> The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

### 11.6 Wireless Router

Some battery-operated handsets have the capability to transmit and receive user through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06 v02r01 where SAR test considerations for handsets ( $L \times W \geq 9$  cm x 5 cm) are based on a composite test separation distance of 10mm from the front, back and edges of the device containing transmitting antennas within 2.5cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

## 12. Conducted RF Output Power (Unit: dBm)

The detailed conducted power table can refer to Appendix E.

### <GSM Conducted Power>

1. Per KDB 447498 D01, the maximum output power channel is used for SAR testing and for further SAR test reduction.
2. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
3. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.

### <WCDMA Conducted Power>

1. The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification.
2. The procedures in KDB 941225 D01v03r01 are applied for 3GPP Rel. 6 HSPA to configure the device in the required sub-test mode(s) to determine SAR test exclusion.
3. For HSPA+ devices supporting 16 QAM in the uplink, power measurements procedure is according to the configurations in Table C.11.1.4 of 3GPP TS 34.121-1.
4. For DC-HSDPA, the device was configured according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1, with the primary and the secondary serving HS-DSCH Cell enabled during the power measurement.

A summary of these settings are illustrated below:

**HSDPA Setup Configuration:**

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each
  - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
  - iii. Set RMC 12.2Kbps + HSDPA mode.
  - iv. Set Cell Power = -86 dBm
  - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
  - vi. Select HSDPA Uplink Parameters
  - vii. Set Delta ACK, Delta NACK and Delta CQI = 8
  - viii. Set Ack-Nack Repetition Factor to 3
  - ix. Set CQI Feedback Cycle (k) to 4 ms
  - x. Set CQI Repetition Factor to 2
  - xi. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

**Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH**

| Sub-test | $\beta_c$         | $\beta_d$         | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{hs}$<br>(Note 1,<br>Note 2) | CM (dB)<br>(Note 3) | MPR (dB)<br>(Note 3) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|----------------------|
| 1        | 2/15              | 15/15             | 64                | 2/15              | 4/15                                | 0.0                 | 0.0                  |
| 2        | 12/15<br>(Note 4) | 15/15<br>(Note 4) | 64                | 12/15<br>(Note 4) | 24/15                               | 1.0                 | 0.0                  |
| 3        | 15/15             | 8/15              | 64                | 15/8              | 30/15                               | 1.5                 | 0.5                  |
| 4        | 15/15             | 4/15              | 64                | 15/4              | 30/15                               | 1.5                 | 0.5                  |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ .  
 Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA,  $\Delta_{ACK}$  and  $\Delta_{NACK} = 30/15$  with  $\beta_{hs} = 30/15 * \beta_c$ , and  $\Delta_{CQI} = 24/15$  with  $\beta_{hs} = 24/15 * \beta_c$ .  
 Note 3: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{hs}/\beta_c = 24/15$ . For all other combinations of DPCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.  
 Note 4: For subtest 2 the  $\beta_c/\beta_d$  ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to  $\beta_c = 11/15$  and  $\beta_d = 15/15$ .

**Setup Configuration**

**HSUPA Setup Configuration:**

- a. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting \* :
  - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
  - ii. Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121
  - iii. Set Cell Power = -86 dBm
  - iv. Set Channel Type = 12.2k + HSPA
  - v. Set UE Target Power
  - vi. Power Ctrl Mode= Alternating bits
  - vii. Set and observe the E-TFCI
  - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtest's E-TFCI
- d. The transmitted maximum output power was recorded.

**Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH**

| Sub-test | $\beta_c$      | $\beta_d$      | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ (Note 1) | $\beta_{EC}$ | $\beta_{ed}$ (Note 4) (Note 5)                 | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Codes) | CM (dB) (Note 2) | MPR (dB) (Note 2) (Note 6) | AG Index (Note 5) | E-TFCI |
|----------|----------------|----------------|----------------|-------------------|-----------------------|--------------|------------------------------------------------|-------------------|----------------------|------------------|----------------------------|-------------------|--------|
| 1        | 11/15 (Note 3) | 15/15 (Note 3) | 64             | 11/15 (Note 3)    | 22/15                 | 209/25       | 1309/225                                       | 4                 | 1                    | 1.0              | 0.0                        | 20                | 75     |
| 2        | 6/15           | 15/15          | 64             | 6/15              | 12/15                 | 12/15        | 94/75                                          | 4                 | 1                    | 3.0              | 2.0                        | 12                | 67     |
| 3        | 15/15          | 9/15           | 64             | 15/9              | 30/15                 | 30/15        | $\beta_{ed1}$ : 47/15<br>$\beta_{ed2}$ : 47/15 | 4                 | 2                    | 2.0              | 1.0                        | 15                | 92     |
| 4        | 2/15           | 15/15          | 64             | 2/15              | 4/15                  | 2/15         | 56/75                                          | 4                 | 1                    | 3.0              | 2.0                        | 17                | 71     |
| 5        | 15/15          | 0              | -              | -                 | 5/15                  | 5/15         | 47/15                                          | 4                 | 1                    | 1.0              | 0.0                        | 12                | 67     |

Note 1: For sub-test 1 to 4,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CDI} = 30/15$  with  $\beta_{HS} = 30/15 * \beta_c$ . For sub-test 5,  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CDI} = 5/15$  with  $\beta_{HS} = 5/15 * \beta_c$ .

Note 2: CM = 1 for  $\beta_c/\beta_d = 12/15$ ,  $\beta_{HS}/\beta_c = 24/15$ . For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the  $\beta_c/\beta_d$  ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF0) to  $\beta_c = 10/15$  and  $\beta_d = 15/15$ .

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 5:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

**Setup Configuration**

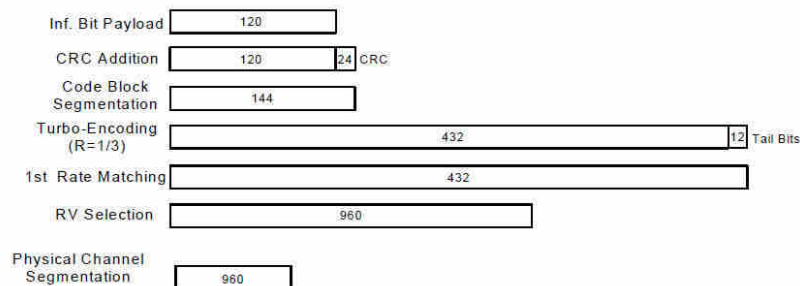
**DC-HSDPA 3GPP release 8 Setup Configuration:**

- a. The EUT was connected to Base Station referred to the Setup Configuration below
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
  - i. Set RMC 12.2Kbps + HSDPA mode.
  - ii. Set Cell Power = -25 dBm
  - iii. Set HS-DSCH Configuration Type to FRC (H-set 12, QPSK)
  - iv. Select HSDPA Uplink Parameters
  - v. Set Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters were set according to each Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121
    - a). Subtest 1:  $\beta_c/\beta_d=2/15$
    - b). Subtest 2:  $\beta_c/\beta_d=12/15$
    - c). Subtest 3:  $\beta_c/\beta_d=15/8$
    - d). Subtest 4:  $\beta_c/\beta_d=15/4$
  - vi. Set Delta ACK, Delta NACK and Delta CQI = 8
  - vii. Set Ack-Nack Repetition Factor to 3
  - viii. Set CQI Feedback Cycle (k) to 4 ms
  - ix. Set CQI Repetition Factor to 2
  - x. Power Ctrl Mode = All Up bits
- d. The transmitted maximum output power was recorded.

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

**C.8.1.12 Fixed Reference Channel Definition H-Set 12**
**Table C.8.1.12: Fixed Reference Channel H-Set 12**

| Parameter                                                                                                                                              | Unit      | Value |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|
| Nominal Avg. Inf. Bit Rate                                                                                                                             | kbps      | 60    |
| Inter-TTI Distance                                                                                                                                     | TTI's     | 1     |
| Number of HARQ Processes                                                                                                                               | Processes | 6     |
| Information Bit Payload ( $N_{INF}$ )                                                                                                                  | Bits      | 120   |
| Number Code Blocks                                                                                                                                     | Blocks    | 1     |
| Binary Channel Bits Per TTI                                                                                                                            | Bits      | 960   |
| Total Available SML's in UE                                                                                                                            | SML's     | 19200 |
| Number of SML's per HARQ Proc.                                                                                                                         | SML's     | 3200  |
| Coding Rate                                                                                                                                            |           | 0.15  |
| Number of Physical Channel Codes                                                                                                                       | Codes     | 1     |
| Modulation                                                                                                                                             |           | QPSK  |
| Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.               |           |       |
| Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used. |           |       |



**Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)**  
**Setup Configuration**

**HSPA+ 3GPP release 7 (uplink category 7) 16QAM, Setup Configuration:**

1. The EUT was connected to Base Station Agilent E5515C referred to the Setup Configuration.
2. The RF path losses were compensated into the measurements.
3. A call was established between EUT and Base Station with following setting \* :
  - i. Call Configs = 5.2E:HSPA+:UL with 16QAM
  - ii. Set the Gain Factors ( $\beta_c$  and  $\beta_d$ ) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.4, quoted from the TS 34.121-1 s5.2E
  - iii. Set Channel Params
  - iv. Set Cell Power = -86 dBm
  - v. Set Channel Type = HSPA
  - vi. Set UE Target Power = 21 dBm
  - vii. Power Ctrl Mode= All Up Bits
  - viii. Set Manual Uplink DPCH Bc/Bd = Manual
  - ix. Set Manual Uplink DPCH Bc and Bd=15,15(for 34.121-1 v8.10.0 table C11.1.4 sub-test 1)
  - x. Set HSPA Conn DL Channel Levels
  - xi. Set HS-SCCH Configs
  - xii. Set RB Test Mode Setup
  - xiii. Set Common HSUPA Parameters
  - xiv. Set Serving Grant
  - xv. Confirm that E-TFCI is equal to the target E-TFCI of 105 for sub-test 1, and other subtest's E-TFCI
4. The transmitted maximum output power was recorded.

**Table C.11.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM**

| Sub-test | $\beta_c$<br>(Note 3) | $\beta_d$ | $\beta_{HS}$<br>(Note 1) | $\beta_{ec}$ | $\beta_{ed}$<br>(2xSF2)<br>(Note 4)            | $\beta_{ed}$<br>(2xSF4)<br>(Note 4)            | CM<br>(dB)<br>(Note 2) | MPR<br>(dB)<br>(Note 2) | AG<br>Index<br>(Note 4) | E-TFCI<br>(Note 5) | E-TFCI<br>(boost) |
|----------|-----------------------|-----------|--------------------------|--------------|------------------------------------------------|------------------------------------------------|------------------------|-------------------------|-------------------------|--------------------|-------------------|
| 1        | 1                     | 0         | 30/15                    | 30/15        | $\beta_{ed1}$ : 30/15<br>$\beta_{ed2}$ : 30/15 | $\beta_{ed3}$ : 24/15<br>$\beta_{ed4}$ : 24/15 | 3.5                    | 2.5                     | 14                      | 105                | 105               |

Note 1:  $\Delta_{ACK}$ ,  $\Delta_{NACK}$  and  $\Delta_{CQI} = 30/15$  with  $\beta_{rs} = 30/15 * \beta_c$ .  
 Note 2: CM = 3.5 and the MPR is based on the relative CM difference, MPR = MAX(CM-1,0).  
 Note 3: DPDCH is not configured, therefore the  $\beta_c$  is set to 1 and  $\beta_d = 0$  by default.  
 Note 4:  $\beta_{ed}$  can not be set directly; it is set by Absolute Grant Value.  
 Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signaled to use the extrapolation algorithm.

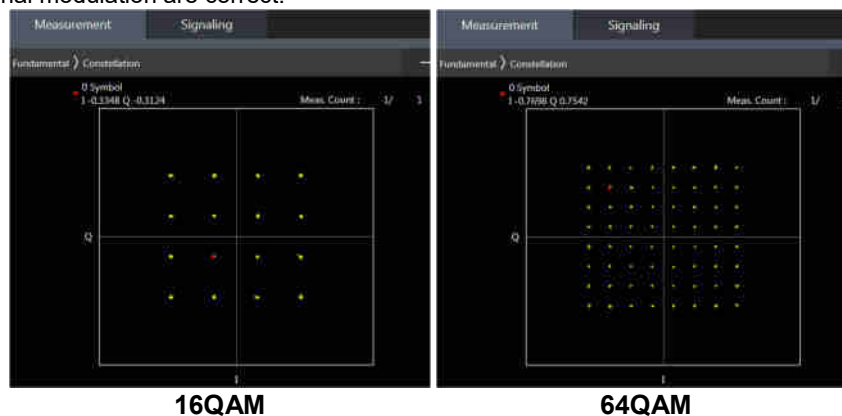
**Setup Configuration**

**<WCDMA Conducted Power>****General Note:**

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

**<LTE Conducted Power>**
**General Note:**

1. Anritsu MT8820C base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05v02r05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
7. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
9. LTE B4 / B5 / B17 SAR test was covered by B66 / B26 / B12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band
10. According to May 2017 TCB workshop, for 16QAM and 64QAM should be verified by checking the signal constellation with a call box to avoid incorrect maximum power levels due to MPR and other requirements associated with signal modulation, and the following figure is taken from the "Fundamental Measurement >> Modulation Analysis >> constellation" mode of the device connect to the MT8821C base station, therefore, the device 64QAM and 16QAM signal modulation are correct.

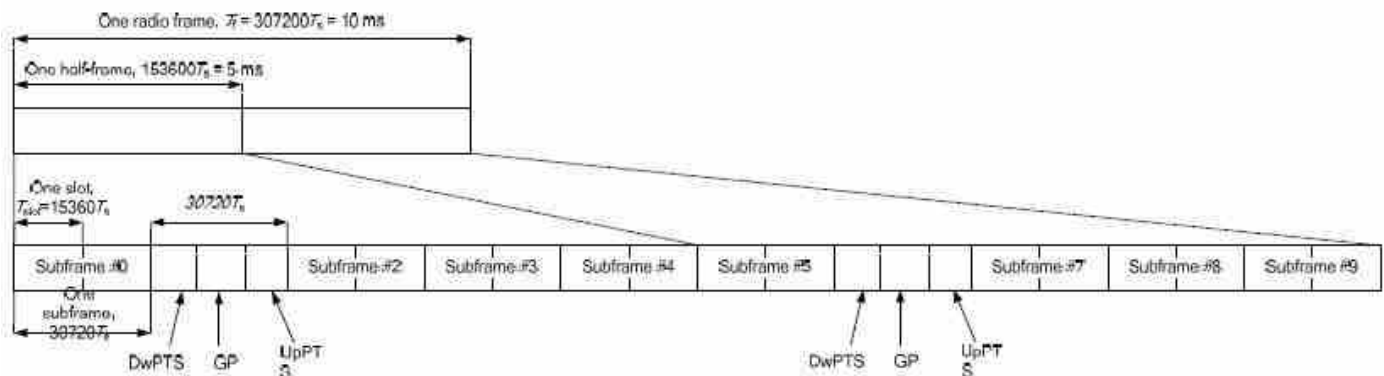


### <TDD LTE SAR Measurement>

TDD LTE configuration setup for SAR measurement

SAR was tested with a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by 3GPP.

- 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- “special subframe S” contains both uplink and downlink transmissions, it has been taken into consideration to determine the transmission duty factor according to the worst case uplink and downlink cyclic prefix requirements for UpPTS
- Establishing connections with base station simulators ensure a consistent means for testing SAR and recommended for evaluating SAR. The Anritsu MT8820C (firmware: #22.52#004) was used for LTE output power measurements and SAR testing.



**Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).**

**Table 4.2-2: Uplink-downlink configurations.**

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|
|                               |                                             | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms                                        | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms                                        | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms                                        | D               | S | U | U | U | D | S | U | U | D |

**Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).**

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | $6592 \cdot T_s$                 | $2192 \cdot T_s$               | $2560 \cdot T_s$                 | $7680 \cdot T_s$                   | $2192 \cdot T_s$               | $2560 \cdot T_s$                 |
| 1                              | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                              | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                              | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                              | $26336 \cdot T_s$                | $4384 \cdot T_s$               | $5120 \cdot T_s$                 | $7680 \cdot T_s$                   | $4384 \cdot T_s$               | $5120 \cdot T_s$                 |
| 5                              | $6592 \cdot T_s$                 |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 6                              | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                              | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  |                                |                                  |
| 8                              | $24144 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |
| 9                              | $13168 \cdot T_s$                |                                |                                  | -                                  | -                              | -                                |

| Special subframe (30720·T <sub>s</sub> ): Normal cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                    | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                         | 0~4                            | 7.13%                          | 8.33%                            |
|                                                                                    | 5~9                            | 14.3%                          | 16.7%                            |

| Special subframe(30720·T <sub>s</sub> ): Extended cyclic prefix in downlink (UpPTS) |                                |                                |                                  |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------|----------------------------------|
|                                                                                     | Special subframe configuration | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| Uplink duty factor in one special subframe                                          | 0~3                            | 7.13%                          | 8.33%                            |
|                                                                                     | 4~7                            | 14.3%                          | 16.7%                            |

The highest duty factor is resulted from:

For LTE TDD Power class 2

- Uplink-downlink configuration: 1. In a half-frame consisted of 5 subframes, uplink operation is in 2 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(2+0.167)/5 = 43.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(2+0.143)/5 = 42.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $43.3\%/42.9\% = 1.009$  is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.

For LTE TDD Power class 3

- Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.167)/5 = 63.3\%$
- for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is:  $(3+0.143)/5 = 62.9\%$
- For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix  $63.3\%/62.9\% = 1.006$  is applied to scale-up the measured SAR result. The scaled TDD LTE SAR = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.

The device can adjust uplink/downlink configuration automatically according to the transmitting power class level, as followings:

| LTE TDD Band | Power Class level | support uplink/downlink configuration |
|--------------|-------------------|---------------------------------------|
| LTE Band 41  | > 23              | 1,2,3,4,5                             |
|              | =23               | 0,1,2,3,4,5,6                         |
|              | < 23              | 0,1,2,3,4,5,6                         |

**<LTE Carrier Aggregation>****General Note:**

1. This device supports Carrier Aggregation on downlink for inter and intra band. For the device supports bands and bandwidths and configurations are provided as follow table was according to 3GPP.
2. In applying the existing power measurement procedures of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of frequency bands and CCs in each row need combination, and for this device that all the configurations were choose to power measurement.
3. All permutations exist. No restrictions on Pcell & Scell combinations.
4. The gray color table is covered by other combinations and no need to verify power.

| 2CC Downlink Carrier Aggregation |             |                                 | 3CC Downlink Carrier Aggregation |             |                                 |
|----------------------------------|-------------|---------------------------------|----------------------------------|-------------|---------------------------------|
| Number                           | Combination | Covered by Measurement Superset | Number                           | Combination | Covered by Measurement Superset |
| 1                                | 2A-2A       |                                 | 1                                | 2A-7A-7A    |                                 |
| 2                                | 2A-4A       |                                 | 2                                | 2A-7A-66A   |                                 |
| 3                                | 2A-5A       |                                 | 3                                | 2A-7C       |                                 |
| 4                                | 2A-7A       | 3CC-1                           | 4                                | 4A-4A-5A    |                                 |
| 5                                | 2A-12A      |                                 | 5                                | 4A-7C       |                                 |
| 6                                | 2A-17A      |                                 | 6                                | 12A-66A-66A |                                 |
| 7                                | 2A-38A      |                                 |                                  |             |                                 |
| 8                                | 2A-66A      | 3CC-2                           |                                  |             |                                 |
| 9                                | 4A-4A       | 3CC-4                           |                                  |             |                                 |
| 10                               | 4A-5A       | 3CC-4                           |                                  |             |                                 |
| 11                               | 4A-7A       |                                 |                                  |             |                                 |
| 12                               | 4A-12A      |                                 |                                  |             |                                 |
| 13                               | 4A-17A      |                                 |                                  |             |                                 |
| 14                               | 5A-7A       |                                 |                                  |             |                                 |
| 15                               | 5A-66A      |                                 |                                  |             |                                 |
| 16                               | 7A-7A       | 3CC-1                           |                                  |             |                                 |
| 17                               | 7A-26A      |                                 |                                  |             |                                 |
| 18                               | 7A-66A      | 3CC-2                           |                                  |             |                                 |
| 19                               | 12A-66A     | 3CC-6                           |                                  |             |                                 |
| 20                               | 66A-66A     | 3CC-6                           |                                  |             |                                 |
| 21                               | 7B          |                                 |                                  |             |                                 |
| 22                               | 2C          |                                 |                                  |             |                                 |
| 23                               | 7C          | 3CC-5                           |                                  |             |                                 |
| 24                               | 38C         |                                 |                                  |             |                                 |
| 25                               | 41C         |                                 |                                  |             |                                 |
| 26                               | 41A-41A     |                                 |                                  |             |                                 |

**LTE Carrier Aggregation Conducted Power (Downlink)**

- i. According to KDB941225 D05A v01r02, Uplink maximum output power measurement with downlink carrier aggregation active should be measured, using the highest output channel measured without downlink carrier aggregation, to confirm that uplink maximum output power with downlink carrier aggregation active remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output measured without downlink carrier aggregation active.
- ii. Uplink maximum output power with downlink carrier aggregation active does not show more than ¼ dB higher than the maximum output power without downlink carrier aggregation active, therefore SAR evaluation with downlink carrier aggregation active can be excluded.
- iii. The device supports downlink three carrier aggregation. For power measurement were control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
- iv. Selected highest measured power when downlink carrier aggregation is inactive for conducted power comparison with downlink carrier aggregation is active, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than ¼ dB higher than the maximum output power measured when downlink carrier aggregation inactive.
- v. For inter-band CA, the SCC selected highest bandwidth and near the middle of its transmission band. For SCC DL RB size and offset will base on the PCC corresponding RB allocation.
- vi. For non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vii. For Intra-band, contiguous CA, the downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements.

$$\text{Nominal channel spacing} = \left\lceil \frac{BW_{\text{Channel}(1)} + BW_{\text{Channel}(2)} - 0.1|BW_{\text{Channel}(1)} - BW_{\text{Channel}(2)}|}{0.6} \right\rceil 0.3 \text{ [MHz]}$$

**LTE 4x4 MIMO (Downlink)**

This device supports downlink 4x4 MIMO operations for LTE Band 4/7/38/41/66 only. Uplink transmission is limited to a single output stream. Power measurements were performed with downlink 4x4 MIMO active for the configuration with highest measured maximum conducted power with 4x4 downlink MIMO inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC Guidance, SAR for downlink 4x4 MIMO was not needed since the maximum average output power in 4x4 downlink MIMO mode was not > 0.25 dB higher than the maximum output power with downlink 4x4 MIMO inactive. When carrier aggregation is applicable, power measurements were performed with the downlink carrier aggregation and 4x4 DL MIMO active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

| 4X4 MIMO | Band                  |
|----------|-----------------------|
|          | LTE Band 4/7/38/41/66 |

**LTE Carrier Aggregation Conducted Power (Uplink)**

| LTE Uplink CA | 2CC Uplink Carrier Aggregation |
|---------------|--------------------------------|
| Intra-band    | Antenna Tx                     |
| CA_7C         | Ant 0/3/4                      |
| CA_38B        | Ant 0/3/4                      |
| CA_41C        | Ant 0/3/4                      |

**<Intra-band>**
**General Note:**

- i. The device supports intra-band uplink carrier aggregation for LTE B7/38/41 with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre 3GPP requirement.
- ii. The device supports uplink carrier aggregation with a maximum of two uplink component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when not-contiguous RB allocation is implemented. The conducted power and MPR setting in this device are permanently implemented pre the 3GPP requirement.
- iii. According Nov. 2017 TCB workshop, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.
- iv. Additional SAR measurement for LTE UL CA with other DL CA combinations active were not required since the maximum output power for this configuration was not > 0.25dB higher than the maximum output power for UL CA active.

**5G NR Output Power (Unit: dBm)**

**General Note:**

1. 5G NR n5/n7 /n66 /n38 /n41 is NSA mode.
2. 5G NR n2/n5/n7 /n26 /n66 /n38/n41 is SA mode.
3. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
  - a. For DFT-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, the CP-OFDM mode will not higher than DFT-OFDM mode, therefore, similar FCC KDB 941225 D05 procedure for other modulation output power for each RB allocation configuration is > not ½ dB higher than the same configuration in DFT-s QPSK and the reported SAR for the DFT-s QPSK configuration is ≤ 1.45 W/kg; CP-OFDM testing is not required.
  - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class2 and 3, for 16QAM/64QAM/256QAM and smaller bandwidth output power will spot check largest channel bandwidth worst RB configuration to ensure the 16QAM/64QAM/256QAM and smaller bandwidth output power will not ½ dB higher than the same configuration in the largest supported bandwidth.
  - c. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel
  - d. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
  - e. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested
  - f. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
  - g. Smaller bandwidth output power for each RB allocation configuration for this device will not ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device
4. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
5. 5G NR n41 supports HPUE, HPUE power and SAR testing performed separately.
6. 5G NR n41 HPUE with higher power, 5G NR n41 HPUE SAR can represent power class 3 level SAR.
7. NSA and SA mode should perform SAR separately. For the maximum power of NSA mode is the same as SA total power level, so SA SAR can represent NSA mode SAR.
8. 5G NR NSA mode, the power level is the same as 5G NR SA mode, so 5G NR NSA mode and SA mode power table only show one time.
9. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so only show DFT-s-OFDM power table and chose DFT-s-OFDM to perform SAR testing.
10. For DFT-s-OFDM and CP-OFDM output power measurement reduction, according to 38.101 maximum power reduction for the CP-OFDM mode will not higher than DFT-s-OFDM mode, therefore, CP-OFDM measurement is unnecessary.
11. For 5G NR EN-DC mode, standalone SAR performed for 5G NR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.

**<3GPP 38.101 MPR for EN-DC>**
**Table 6.2.2-1 Maximum power reduction (MPR) for power class 3**

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | $\leq 3.5^1$        | $\leq 1.2^1$         | $\leq 0.2^1$         |
|            |           | $\leq 0.5^2$        | $\leq 0.5^2$         | 0 <sup>2</sup>       |
|            | QPSK      | $\leq 1$            |                      | 0                    |
|            | 16 QAM    | $\leq 2$            |                      | $\leq 1$             |
|            | 64 QAM    | $\leq 2.5$          |                      |                      |
| CP-OFDM    | 256 QAM   | $\leq 4.5$          |                      |                      |
|            | QPSK      | $\leq 3$            |                      | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3$            |                      | $\leq 2$             |
|            | 64 QAM    | $\leq 3.5$          |                      |                      |
|            | 256 QAM   | $\leq 6.5$          |                      |                      |

NOTE 1: Applicable for UE operating in TDD mode with Pi/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0 dB MPR is 26 dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 with Pi/2 BPSK modulation and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40 % of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

**Table 6.2.2-2 Maximum power reduction (MPR) for power class 2**

| Modulation |           | MPR (dB)            |                      |                      |
|------------|-----------|---------------------|----------------------|----------------------|
|            |           | Edge RB allocations | Outer RB allocations | Inner RB allocations |
| DFT-s-OFDM | Pi/2 BPSK | $\leq 3.5$          | $\leq 0.5$           | 0                    |
|            | QPSK      | $\leq 3.5$          | $\leq 1$             | 0                    |
|            | 16 QAM    | $\leq 3.5$          | $\leq 2$             | $\leq 1$             |
|            | 64 QAM    | $\leq 3.5$          | $\leq 2.5$           |                      |
|            | 256 QAM   | $\leq 4.5$          |                      |                      |
| CP-OFDM    | QPSK      | $\leq 3.5$          | $\leq 3$             | $\leq 1.5$           |
|            | 16 QAM    | $\leq 3.5$          | $\leq 3$             | $\leq 2$             |
|            | 64 QAM    | $\leq 3.5$          |                      |                      |
|            | 256 QAM   | $\leq 6.5$          |                      |                      |

**<EN-DC combination>**

| ENDC        | LTE TX | NR TX |
|-------------|--------|-------|
| DC_2A_n7A   | ANT0   | ANT4  |
|             | ANT3   |       |
| DC_4A_n7A   | ANT3   | ANT0  |
|             | ANT4   | ANT3  |
|             |        | ANT4  |
| DC_66A_n7A  | ANT3   | ANT0  |
|             | ANT4   | ANT3  |
|             |        | ANT4  |
| DC_2A_n66A  | ANT0   | ANT4  |
|             | ANT3   |       |
| DC_7A_n66A  | ANT3   | ANT0  |
|             | ANT4   | ANT3  |
|             |        | ANT4  |
| DC_5A_n66A  | ANT0   | ANT0  |
|             | ANT1   | ANT3  |
|             |        | ANT4  |
| DC_12A_n66A | ANT0   | ANT0  |
|             | ANT1   | ANT3  |
|             |        | ANT4  |
| DC_4A_n38A  | ANT3   | ANT0  |
|             | ANT4   | ANT3  |
|             |        | ANT4  |
| DC_5A_n38A  | ANT0   | ANT0  |
|             | ANT1   | ANT3  |
|             |        | ANT4  |
| DC_66A_n38A | ANT3   | ANT0  |
|             | ANT4   | ANT3  |
|             |        | ANT4  |
| DC_4A_n41A  | ANT3   | ANT0  |
|             | ANT4   | ANT3  |
|             |        | ANT4  |
| DC_66A_n41A | ANT3   | ANT0  |
|             | ANT4   | ANT3  |
|             |        | ANT4  |
| DC_7A_n5A   | ANT0   | ANT0  |
|             | ANT3   | ANT1  |
|             | ANT4   |       |
| DC_66A_n5A  | ANT0   | ANT0  |
|             | ANT3   | ANT1  |
|             | ANT4   |       |

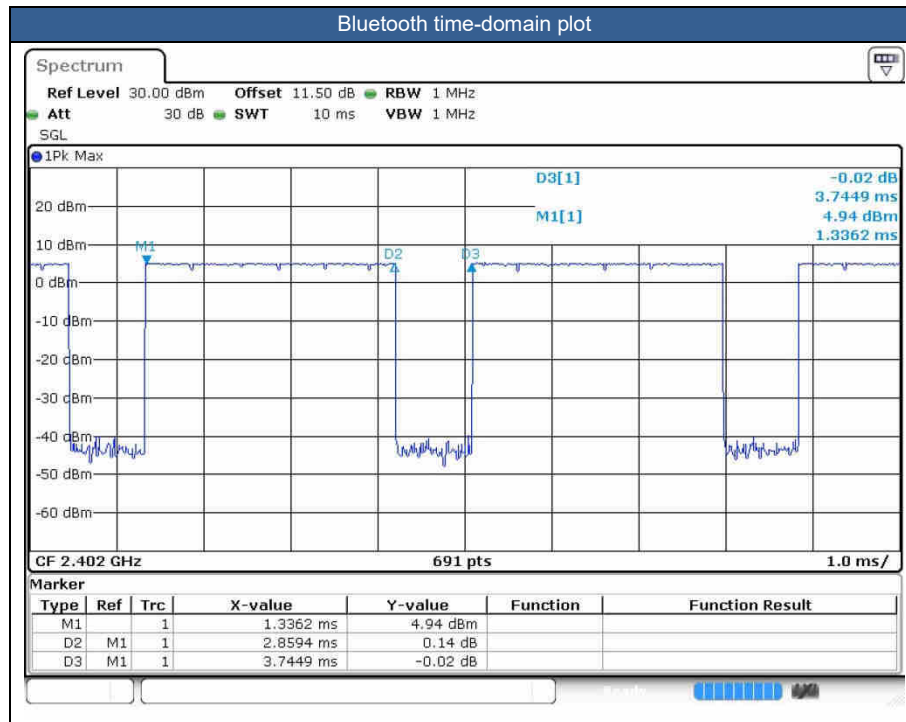
**<WLAN Conducted Power>****General Note:**

1. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
2. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
3. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
4. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
5. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
6. 802.11 ax supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
7. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
8. The 2.4GHz/5GHz/6GHz/BT WLAN can transmit in SISO/MIMO antenna mode.
9. When the single antenna RF power in MIMO mode is less than the single antenna RF power in SISO mode, SAR testing was performed on SISO mode, for MIMO SAR based on standalone SAR to be summed together as MIMO SAR; when the single antenna RF power in MIMO mode is larger than the single antenna RF power in SISO mode, SAR testing was performed on dual antenna.
10. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of two antennas respectively to calculate sum of the power for MIMO mode.

## <2.4GHz Bluetooth>

### General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 76.35% as following figure, according to Oct. 2016 TCB workshop for Bluetooth SAR scaling need further consideration and the maximum duty cycle is 100%, therefore the actual duty cycle will be scaled up to 100% for Bluetooth reported SAR calculation





### **13. Antenna Location**

The detailed antenna location information can refer to SAR Test Setup Photos.

## 14. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of WLAN/Bluetooth signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)\*Tune-up Scaling Factor
  - d. For BT/WLAN: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
  - e. For TDD LTE SAR measurement of power class 3, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = Measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
  - f. For TDD LTE SAR measurement of power class 2, the duty cycle 1:2.33 (42.9 %) was used perform testing and considering the theoretical duty cycle of 43.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 42.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 43.3%/42.9% = 1.009 is applied to scale-up the measured SAR result. The reported TDD LTE SAR (W/kg) = measured SAR (W/kg)\* Tune-up Scaling Factor\* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8$  W/kg or  $2.0$  W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  W/kg or  $1.5$  W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - $\leq 0.4$  W/kg or  $1.0$  W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required when the measured SAR is  $\geq 0.8$ W/kg. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The device implements receiver detect mechanism trigger reduced power for the power management for SAR compliance at different exposure conditions (head, hotspot, body, and extremity). It uses the receiver to indicate whether the user is making a call in head scenario or not. The selection between head and body power levels is based on the receiver detection mechanism. It can determine proximity to head or body and set the relevant power level for 2G&3G&4G and Wi-Fi antennas accordingly. The device will invoke corresponding work scenarios power level base on frequency bands/antennas, which can refer to appendix E.
5. For WLAN when transmit, when transmit simultaneously together with WWAN/BT, the device power will be reduced power at head and extremity exposure conditions.
6. This device supports HPUE for LTE Band 41 with class 2 level, HPUE power has been measured separately. For HPUE power is higher than power class 3 but with lower duty cycle, the maximum average power for class 2 and class 3 is almost the same, so we chose power class 3 full SAR testing and power class 2 verify the worst case of power class 3 SAR.
7. 5G NR n41 HUPE with higher power, 5G NR n41 HUPE SAR can represent power class 3 level SAR.
8. For 5G NR test, using FTM (Factory Test Mode) to perform SAR with default 100% transmission.
9. For 5G NR EN-DC mode, standalone SAR performed for 5G NR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5G NR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
10. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension  $> 15.0$  cm or an overall diagonal dimension  $> 16.0$  cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2$  W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the  $1.2$  W/kg SAR test reduction threshold.
  - a. For this device SAR for WWAN/WLAN transmitter scaled to maximum output power mode for product specific 10g SAR is higher than  $1.2$ W/kg of LTE Band 7, 5G NR n5 /n26/n41, therefore product specific 10g SAR is necessary.
  - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
  - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.

11. According to Nov. 2017 TCB workshop, when the reported 1gSAR for UL CA configuration is <1.2 W/kg, UL CA 1gSAR is not required for all required test channels (PCC based).
12. The following table "n/a" in the result means the SAR cube is too small to be detected.

**GSM Note:**

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode, SAR measurement is not required for the secondary mode.

**WCDMA Note:**

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is  $\leq \frac{1}{4}$  dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+ , and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+ ) are less than  $\frac{1}{4}$  dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+ .

**LTE Note:**

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is  $>$  not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B4 / B5 / B12 / B17 / B26 / B38 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
7. LTE B4 / B5 / B17 SAR test was covered by B66 / B26 / B12; according to April 2015 TCB workshop, SAR test for overlapping LTE bands can be reduced if
  - a. the maximum output power, including tolerance, for the smaller band is  $\leq$  the larger band to qualify for the SAR test exclusion
  - b. the channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band

**5G NR Note:**

1. For 5G NR test procedure was following step similar FCC KDB 941225 D05:
  - a. SAR testing start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
  - b. 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure
  - c. QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.
  - d. PI/2 BPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not  $\frac{1}{2}$  dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, PI/2 BPSK /16QAM/64QAM/256QAM SAR testing are not required.
  - e. Smaller bandwidth output power for each RB allocation configuration for this device will not  $\frac{1}{2}$  dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is  $\leq 1.45$  W/kg, smaller bandwidth SAR testing is not required for this device
  - f. For 5G FR1 n5/n7 /n38/n41/n66 the maximum bandwidth does not support three non-overlapping channels, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

**WLAN/Bluetooth Note:**

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. The 2.4GHz/5GHz WLAN can transmit in SISO/MIMO antenna mode.
7. When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n ac then ax) is selected.
8. When the single antenna RF power in MIMO mode is less than the single antenna RF power in SISO mode, SAR testing was performed on SISO mode, for MIMO SAR based on standalone SAR to be summed together as MIMO SAR; when the single antenna RF power in MIMO mode is larger than the single antenna RF power in SISO mode, SAR testing was performed on dual antenna.



## 14.1 Head SAR

| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode              | Test Position | Gap (mm) | Antenna | Power State | Ch.   | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|-------------------|---------------|----------|---------|-------------|-------|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 750MHz   |             |          |            |         |           |                   |               |          |         |             |       |             |        |                     |                     |                        |              |                           |                  |                        |                        |
| 01       | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 23095 | 707.5       | 1      | 24.42               | 24.70               | 1.067                  | -            | -                         | -0.09            | 0.314                  | 0.335                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 23095 | 707.5       | 1      | 24.42               | 24.70               | 1.067                  | -            | -                         | -0.08            | 0.058                  | 0.062                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 23095 | 707.5       | 1      | 24.42               | 24.70               | 1.067                  | -            | -                         | -0.07            | 0.579                  | 0.618                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Left Tilted   | 0mm      | Ant 1   | DSI 2       | 23095 | 707.5       | 1      | 24.42               | 24.70               | 1.067                  | -            | -                         | 0.02             | 0.076                  | 0.081                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 23095 | 707.5       | 1      | 23.44               | 23.70               | 1.062                  | -            | -                         | 0.13             | 0.272                  | 0.289                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 23095 | 707.5       | 1      | 23.44               | 23.70               | 1.062                  | -            | -                         | -0.05            | 0.051                  | 0.054                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 23095 | 707.5       | 1      | 23.44               | 23.70               | 1.062                  | -            | -                         | -0.04            | 0.526                  | 0.558                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Left Tilted   | 0mm      | Ant 1   | DSI 2       | 23095 | 707.5       | 1      | 23.44               | 23.70               | 1.062                  | -            | -                         | -0.17            | 0.067                  | 0.071                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Right Cheek   | 0mm      | Ant 1   | DSI 6       | 23095 | 707.5       | 1      | 22.89               | 23.20               | 1.074                  | -            | -                         | -0.14            | 0.222                  | 0.238                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Right Tilted  | 0mm      | Ant 1   | DSI 6       | 23095 | 707.5       | 1      | 22.89               | 23.20               | 1.074                  | -            | -                         | 0.03             | 0.041                  | 0.044                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 6       | 23095 | 707.5       | 1      | 22.89               | 23.20               | 1.074                  | -            | -                         | -0.12            | 0.410                  | 0.440                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Left Tilted   | 0mm      | Ant 1   | DSI 6       | 23095 | 707.5       | 1      | 22.89               | 23.20               | 1.074                  | -            | -                         | 0.1              | 0.054                  | 0.058                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Right Cheek   | 0mm      | Ant 1   | DSI 6       | 23095 | 707.5       | 1      | 22.87               | 23.20               | 1.079                  | -            | -                         | -0.03            | 0.242                  | 0.261                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Right Tilted  | 0mm      | Ant 1   | DSI 6       | 23095 | 707.5       | 1      | 22.87               | 23.20               | 1.079                  | -            | -                         | -0.07            | 0.045                  | 0.049                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 6       | 23095 | 707.5       | 1      | 22.87               | 23.20               | 1.079                  | -            | -                         | 0.19             | 0.432                  | 0.466                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Left Tilted   | 0mm      | Ant 1   | DSI 6       | 23095 | 707.5       | 1      | 22.87               | 23.20               | 1.079                  | -            | -                         | -0.06            | 0.060                  | 0.065                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Right Cheek   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.18            | 0.059                  | 0.079                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Right Tilted  | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Left Cheek    | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.02            | 0.085                  | 0.114                  |
| 02       | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Left Tilted   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.07            | 0.050                  | 0.067                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Right Cheek   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | 0.03             | 0.045                  | 0.062                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Right Tilted  | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Left Cheek    | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | 0.16             | 0.067                  | 0.093                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Left Tilted   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.29               | 21.50               | 1.050                  | -            | -                         | -0.13            | 0.401                  | 0.420                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.29               | 21.50               | 1.050                  | -            | -                         | 0.17             | 0.082                  | 0.087                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.29               | 21.50               | 1.050                  | -            | -                         | -0.15            | 0.811                  | 0.851                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Left Tilted   | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.29               | 21.50               | 1.050                  | -            | -                         | -0.02            | 0.104                  | 0.109                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.25               | 21.50               | 1.059                  | -            | -                         | 0.05             | 0.396                  | 0.419                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.25               | 21.50               | 1.059                  | -            | -                         | -0.19            | 0.082                  | 0.087                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.25               | 21.50               | 1.059                  | -            | -                         | 0.01             | 0.800                  | 0.847                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Left Tilted   | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.25               | 21.50               | 1.059                  | -            | -                         | -0.18            | 0.101                  | 0.107                  |
|          | LTE Band 13 | 10M      | QPSK       | 50      | 0         | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 23230 | 782         | 1      | 21.13               | 21.50               | 1.089                  | -            | -                         | 0.09             | 0.741                  | 0.807                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Right Cheek   | 0mm      | Ant 1   | DSI 6       | 23230 | 782         | 1      | 19.79               | 20.00               | 1.050                  | -            | -                         | 0.06             | 0.284                  | 0.298                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Right Tilted  | 0mm      | Ant 1   | DSI 6       | 23230 | 782         | 1      | 19.79               | 20.00               | 1.050                  | -            | -                         | -0.07            | 0.058                  | 0.061                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 6       | 23230 | 782         | 1      | 19.79               | 20.00               | 1.050                  | -            | -                         | -0.07            | 0.574                  | 0.602                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Left Tilted   | 0mm      | Ant 1   | DSI 6       | 23230 | 782         | 1      | 19.79               | 20.00               | 1.050                  | -            | -                         | -0.15            | 0.074                  | 0.078                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Right Cheek   | 0mm      | Ant 1   | DSI 6       | 23230 | 782         | 1      | 19.76               | 20.00               | 1.057                  | -            | -                         | -0.01            | 0.280                  | 0.296                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Right Tilted  | 0mm      | Ant 1   | DSI 6       | 23230 | 782         | 1      | 19.76               | 20.00               | 1.057                  | -            | -                         | 0.13             | 0.058                  | 0.061                  |
| 03       | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Left Cheek    | 0mm      | Ant 1   | DSI 6       | 23230 | 782         | 1      | 19.76               | 20.00               | 1.057                  | -            | -                         | 0.14             | 0.566                  | 0.598                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Left Tilted   | 0mm      | Ant 1   | DSI 6       | 23230 | 782         | 1      | 19.76               | 20.00               | 1.057                  | -            | -                         | -0.12            | 0.072                  | 0.076                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Right Cheek   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | 0.05             | 0.055                  | 0.074                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Right Tilted  | 0mm      | Ant 0   | DSI 2/DSI 6 | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Left Cheek    | 0mm      | Ant 0   | DSI 2/DSI 6 | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Left Tilted   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Right Cheek   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Right Tilted  | 0mm      | Ant 0   | DSI 2/DSI 6 | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Left Cheek    | 0mm      | Ant 0   | DSI 2/DSI 6 | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | 0.13             | 0.058                  | 0.077                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Left Tilted   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | -                | n/a                    | n/a                    |
| 835MHz   |             |          |            |         |           |                   |               |          |         |             |       |             |        |                     |                     |                        |              |                           |                  |                        |                        |
| 04       | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 189   | 836.4       | 1      | 26.43               | 27.50               | 1.279                  | -            | -                         | 0.04             | 0.362                  | 0.463                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 189   | 836.4       | 1      | 26.43               | 27.50               | 1.279                  | -            | -                         | -0.04            | 0.063                  | 0.081                  |



# FCC SAR Test Report

Report No. : FA3O3018

|    |             |     |      |    |    |                   |              |     |       |             |        |       |   |       |       |       |   |   |       |       |       |
|----|-------------|-----|------|----|----|-------------------|--------------|-----|-------|-------------|--------|-------|---|-------|-------|-------|---|---|-------|-------|-------|
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Left Cheek   | 0mm | Ant 1 | DSI 2       | 189    | 836.4 | 1 | 26.43 | 27.50 | 1.279 | - | - | 0.04  | 0.707 | 0.905 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Left Tilted  | 0mm | Ant 1 | DSI 2       | 189    | 836.4 | 1 | 26.43 | 27.50 | 1.279 | - | - | -0.13 | 0.093 | 0.119 |
| 03 | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Left Cheek   | 0mm | Ant 1 | DSI 2       | 128    | 824.2 | 1 | 26.42 | 27.50 | 1.282 | - | - | -0.06 | 0.755 | 0.968 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Left Cheek   | 0mm | Ant 1 | DSI 2       | 251    | 848.8 | 1 | 26.38 | 27.50 | 1.294 | - | - | 0.17  | 0.543 | 0.703 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Right Cheek  | 0mm | Ant 1 | DSI 6       | 189    | 836.4 | 1 | 24.93 | 26.00 | 1.279 | - | - | 0.16  | 0.256 | 0.328 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Right Tilted | 0mm | Ant 1 | DSI 6       | 189    | 836.4 | 1 | 24.93 | 26.00 | 1.279 | - | - | 0.1   | 0.045 | 0.058 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Left Cheek   | 0mm | Ant 1 | DSI 6       | 189    | 836.4 | 1 | 24.93 | 26.00 | 1.279 | - | - | -0.17 | 0.501 | 0.641 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Left Tilted  | 0mm | Ant 1 | DSI 6       | 189    | 836.4 | 1 | 24.93 | 26.00 | 1.279 | - | - | 0.07  | 0.066 | 0.084 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 189    | 836.4 | 1 | 26.31 | 27.50 | 1.315 | - | - | -0.04 | 0.092 | 0.121 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 189    | 836.4 | 1 | 26.31 | 27.50 | 1.315 | - | - | 0.13  | 0.058 | 0.076 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 189    | 836.4 | 1 | 26.31 | 27.50 | 1.315 | - | - | 0.12  | 0.130 | 0.171 |
|    | GSM850      | -   | -    | -  | -  | GPRS (4 Tx slots) | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 189    | 836.4 | 1 | 26.31 | 27.50 | 1.315 | - | - | 0.13  | 0.069 | 0.091 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Right Cheek  | 0mm | Ant 1 | DSI 2       | 4182   | 836.4 | 1 | 20.12 | 20.40 | 1.067 | - | - | -0.02 | 0.314 | 0.335 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Right Tilted | 0mm | Ant 1 | DSI 2       | 4182   | 836.4 | 1 | 20.12 | 20.40 | 1.067 | - | - | -0.14 | 0.058 | 0.062 |
| 04 | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Left Cheek   | 0mm | Ant 1 | DSI 2       | 4182   | 836.4 | 1 | 20.12 | 20.40 | 1.067 | - | - | -0.14 | 0.706 | 0.753 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Left Tilted  | 0mm | Ant 1 | DSI 2       | 4182   | 836.4 | 1 | 20.12 | 20.40 | 1.067 | - | - | 0.05  | 0.082 | 0.087 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Right Cheek  | 0mm | Ant 1 | DSI 6       | 4182   | 836.4 | 1 | 18.64 | 18.90 | 1.062 | - | - | -0.01 | 0.222 | 0.236 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Right Tilted | 0mm | Ant 1 | DSI 6       | 4182   | 836.4 | 1 | 18.64 | 18.90 | 1.062 | - | - | -0.07 | 0.041 | 0.044 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Left Cheek   | 0mm | Ant 1 | DSI 6       | 4182   | 836.4 | 1 | 18.64 | 18.90 | 1.062 | - | - | -0.13 | 0.500 | 0.531 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Left Tilted  | 0mm | Ant 1 | DSI 6       | 4182   | 836.4 | 1 | 18.64 | 18.90 | 1.062 | - | - | 0.14  | 0.058 | 0.062 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 4182   | 836.4 | 1 | 22.93 | 24.40 | 1.403 | - | - | 0.11  | 0.144 | 0.202 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 4182   | 836.4 | 1 | 22.93 | 24.40 | 1.403 | - | - | -0.09 | 0.087 | 0.122 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 4182   | 836.4 | 1 | 22.93 | 24.40 | 1.403 | - | - | -0.1  | 0.202 | 0.283 |
|    | WCDMA V     | -   | -    | -  | -  | RMC 12.2Kbps      | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 4182   | 836.4 | 1 | 22.93 | 24.40 | 1.403 | - | - | 0.03  | 0.109 | 0.153 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Right Cheek  | 0mm | Ant 1 | DSI 2       | 26865  | 831.5 | 1 | 19.79 | 20.10 | 1.074 | - | - | 0     | 0.253 | 0.272 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Right Tilted | 0mm | Ant 1 | DSI 2       | 26865  | 831.5 | 1 | 19.79 | 20.10 | 1.074 | - | - | -0.17 | 0.051 | 0.055 |
| 05 | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Left Cheek   | 0mm | Ant 1 | DSI 2       | 26865  | 831.5 | 1 | 19.79 | 20.10 | 1.074 | - | - | 0.04  | 0.524 | 0.563 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Left Tilted  | 0mm | Ant 1 | DSI 2       | 26865  | 831.5 | 1 | 19.79 | 20.10 | 1.074 | - | - | -0.12 | 0.071 | 0.076 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Right Cheek  | 0mm | Ant 1 | DSI 2       | 26865  | 831.5 | 1 | 19.76 | 20.10 | 1.081 | - | - | -0.02 | 0.250 | 0.270 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Right Tilted | 0mm | Ant 1 | DSI 2       | 26865  | 831.5 | 1 | 19.76 | 20.10 | 1.081 | - | - | 0.12  | 0.048 | 0.052 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Left Cheek   | 0mm | Ant 1 | DSI 2       | 26865  | 831.5 | 1 | 19.76 | 20.10 | 1.081 | - | - | -0.15 | 0.518 | 0.560 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Left Tilted  | 0mm | Ant 1 | DSI 2       | 26865  | 831.5 | 1 | 19.76 | 20.10 | 1.081 | - | - | -0.01 | 0.067 | 0.072 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Right Cheek  | 0mm | Ant 1 | DSI 6       | 26865  | 831.5 | 1 | 18.79 | 19.10 | 1.074 | - | - | 0.15  | 0.212 | 0.228 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Right Tilted | 0mm | Ant 1 | DSI 6       | 26865  | 831.5 | 1 | 18.79 | 19.10 | 1.074 | - | - | 0.12  | 0.042 | 0.045 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Left Cheek   | 0mm | Ant 1 | DSI 6       | 26865  | 831.5 | 1 | 18.79 | 19.10 | 1.074 | - | - | -0.08 | 0.427 | 0.459 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Left Tilted  | 0mm | Ant 1 | DSI 6       | 26865  | 831.5 | 1 | 18.79 | 19.10 | 1.074 | - | - | 0.12  | 0.056 | 0.060 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Right Cheek  | 0mm | Ant 1 | DSI 6       | 26865  | 831.5 | 1 | 18.71 | 19.10 | 1.094 | - | - | -0.08 | 0.199 | 0.218 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Right Tilted | 0mm | Ant 1 | DSI 6       | 26865  | 831.5 | 1 | 18.71 | 19.10 | 1.094 | - | - | 0.02  | 0.038 | 0.042 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Left Cheek   | 0mm | Ant 1 | DSI 6       | 26865  | 831.5 | 1 | 18.71 | 19.10 | 1.094 | - | - | -0.18 | 0.411 | 0.450 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Left Tilted  | 0mm | Ant 1 | DSI 6       | 26865  | 831.5 | 1 | 18.71 | 19.10 | 1.094 | - | - | 0.11  | 0.053 | 0.058 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 26865  | 831.5 | 1 | 23.27 | 24.60 | 1.358 | - | - | -0.02 | 0.153 | 0.208 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 26865  | 831.5 | 1 | 23.27 | 24.60 | 1.358 | - | - | -0.18 | 0.093 | 0.126 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 26865  | 831.5 | 1 | 23.27 | 24.60 | 1.358 | - | - | 0.15  | 0.197 | 0.268 |
|    | LTE Band 26 | 15M | QPSK | 1  | 37 | -                 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 26865  | 831.5 | 1 | 23.27 | 24.60 | 1.358 | - | - | -0.14 | 0.107 | 0.145 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 26865  | 831.5 | 1 | 22.28 | 23.60 | 1.355 | - | - | -0.17 | 0.120 | 0.163 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 26865  | 831.5 | 1 | 22.28 | 23.60 | 1.355 | - | - | 0     | 0.072 | 0.098 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 26865  | 831.5 | 1 | 22.28 | 23.60 | 1.355 | - | - | 0.08  | 0.155 | 0.210 |
|    | LTE Band 26 | 15M | QPSK | 36 | 20 | -                 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 26865  | 831.5 | 1 | 22.28 | 23.60 | 1.355 | - | - | 0.11  | 0.084 | 0.114 |
|    | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15            | Right Cheek  | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 1 | 19.94 | 21.20 | 1.337 | - | - | -0.15 | 0.340 | 0.454 |
|    | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15            | Right Tilted | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 1 | 19.94 | 21.20 | 1.337 | - | - | 0.11  | 0.064 | 0.086 |
|    | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15            | Left Cheek   | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 1 | 19.94 | 21.20 | 1.337 | - | - | -0.09 | 0.775 | 1.036 |
|    | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15            | Left Tilted  | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 1 | 19.94 | 21.20 | 1.337 | - | - | -0.1  | 0.092 | 0.123 |
|    | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15            | Right Cheek  | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 1 | 19.93 | 21.20 | 1.340 | - | - | -0.08 | 0.340 | 0.455 |
|    | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15            | Right Tilted | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 1 | 19.93 | 21.20 | 1.340 | - | - | 0.11  | 0.065 | 0.087 |
| 06 | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15            | Left Cheek   | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 1 | 19.93 | 21.20 | 1.340 | - | - | 0.09  | 0.818 | 1.096 |
|    | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15            | Left Cheek   | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 2 | 19.93 | 21.20 | 1.340 | - | - | 0.09  | 0.659 | 0.883 |
|    | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15            | Left Tilted  | 0mm | Ant 1 | DSI 2       | 166300 | 831.5 | 1 | 19.93 | 21.20 | 1.340 | - | - | -0.1  | 0.097 | 0.130 |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |     |    |              |              |     |       |             |        |        |   |       |       |       |   |   |       |       |       |
|---------|-------------|-----|------|-----|----|--------------|--------------|-----|-------|-------------|--------|--------|---|-------|-------|-------|---|---|-------|-------|-------|
|         | FR1 n26     | 20M | QPSK | 100 | 0  | DFT-15       | Left Cheek   | 0mm | Ant 1 | DSI 2       | 166300 | 831.5  | 1 | 19.88 | 21.20 | 1.355 | - | - | -0.06 | 0.735 | 0.996 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Right Cheek  | 0mm | Ant 1 | DSI 6       | 166300 | 831.5  | 1 | 18.54 | 19.70 | 1.306 | - | - | -0.06 | 0.241 | 0.315 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Right Tilted | 0mm | Ant 1 | DSI 6       | 166300 | 831.5  | 1 | 18.54 | 19.70 | 1.306 | - | - | 0.17  | 0.045 | 0.059 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Left Cheek   | 0mm | Ant 1 | DSI 6       | 166300 | 831.5  | 1 | 18.54 | 19.70 | 1.306 | - | - | 0.02  | 0.549 | 0.717 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Left Tilted  | 0mm | Ant 1 | DSI 6       | 166300 | 831.5  | 1 | 18.54 | 19.70 | 1.306 | - | - | -0.03 | 0.065 | 0.085 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Right Cheek  | 0mm | Ant 1 | DSI 6       | 166300 | 831.5  | 1 | 18.45 | 19.70 | 1.334 | - | - | 0.05  | 0.241 | 0.321 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Right Tilted | 0mm | Ant 1 | DSI 6       | 166300 | 831.5  | 1 | 18.45 | 19.70 | 1.334 | - | - | -0.06 | 0.046 | 0.061 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Left Cheek   | 0mm | Ant 1 | DSI 6       | 166300 | 831.5  | 1 | 18.45 | 19.70 | 1.334 | - | - | 0.18  | 0.579 | 0.772 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Left Tilted  | 0mm | Ant 1 | DSI 6       | 166300 | 831.5  | 1 | 18.45 | 19.70 | 1.334 | - | - | -0.16 | 0.069 | 0.092 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 166300 | 831.5  | 1 | 23.40 | 24.70 | 1.349 | - | - | 0.07  | 0.144 | 0.194 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 166300 | 831.5  | 1 | 23.40 | 24.70 | 1.349 | - | - | 0.01  | 0.086 | 0.116 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 166300 | 831.5  | 1 | 23.40 | 24.70 | 1.349 | - | - | 0.09  | 0.202 | 0.272 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 166300 | 831.5  | 1 | 23.40 | 24.70 | 1.349 | - | - | -0.07 | 0.105 | 0.142 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 166300 | 831.5  | 1 | 23.39 | 24.70 | 1.352 | - | - | 0.05  | 0.149 | 0.201 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 166300 | 831.5  | 1 | 23.39 | 24.70 | 1.352 | - | - | 0.03  | 0.091 | 0.123 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 166300 | 831.5  | 1 | 23.39 | 24.70 | 1.352 | - | - | 0.14  | 0.207 | 0.280 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 166300 | 831.5  | 1 | 23.39 | 24.70 | 1.352 | - | - | 0.16  | 0.107 | 0.145 |
| 1750MHz |             |     |      |     |    |              |              |     |       |             |        |        |   |       |       |       |   |   |       |       |       |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Cheek  | 0mm | Ant 3 | DSI 2       | 1413   | 1732.6 | 1 | 19.36 | 19.80 | 1.107 | - | - | -0.16 | 0.730 | 0.808 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Tilted | 0mm | Ant 3 | DSI 2       | 1413   | 1732.6 | 1 | 19.36 | 19.80 | 1.107 | - | - | -0.17 | 0.690 | 0.764 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Left Cheek   | 0mm | Ant 3 | DSI 2       | 1413   | 1732.6 | 1 | 19.36 | 19.80 | 1.107 | - | - | 0.05  | 0.446 | 0.494 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Left Tilted  | 0mm | Ant 3 | DSI 2       | 1413   | 1732.6 | 1 | 19.36 | 19.80 | 1.107 | - | - | 0.18  | 0.494 | 0.547 |
| 07      | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Cheek  | 0mm | Ant 3 | DSI 2       | 1312   | 1712.4 | 1 | 19.24 | 19.80 | 1.138 | - | - | -0.04 | 1.010 | 1.149 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Cheek  | 0mm | Ant 3 | DSI 2       | 1312   | 1712.4 | 2 | 19.24 | 19.80 | 1.138 | - | - | -0.04 | 0.843 | 0.959 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Cheek  | 0mm | Ant 3 | DSI 2       | 1513   | 1752.6 | 1 | 19.30 | 19.80 | 1.122 | - | - | -0.18 | 0.706 | 0.792 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Cheek  | 0mm | Ant 3 | DSI 6       | 1413   | 1732.6 | 1 | 17.83 | 18.30 | 1.114 | - | - | 0.16  | 0.517 | 0.576 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Tilted | 0mm | Ant 3 | DSI 6       | 1413   | 1732.6 | 1 | 17.83 | 18.30 | 1.114 | - | - | -0.12 | 0.488 | 0.544 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Left Cheek   | 0mm | Ant 3 | DSI 6       | 1413   | 1732.6 | 1 | 17.83 | 18.30 | 1.114 | - | - | -0.1  | 0.316 | 0.352 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Left Tilted  | 0mm | Ant 3 | DSI 6       | 1413   | 1732.6 | 1 | 17.83 | 18.30 | 1.114 | - | - | -0.15 | 0.350 | 0.390 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 1413   | 1732.6 | 1 | 23.95 | 24.80 | 1.216 | - | - | 0.05  | 0.096 | 0.117 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 1413   | 1732.6 | 1 | 23.95 | 24.80 | 1.216 | - | - | 0.03  | 0.034 | 0.041 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 1413   | 1732.6 | 1 | 23.95 | 24.80 | 1.216 | - | - | -0.02 | 0.054 | 0.066 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 1413   | 1732.6 | 1 | 23.95 | 24.80 | 1.216 | - | - | 0.12  | 0.037 | 0.045 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Right Cheek  | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.85 | 19.30 | 1.109 | - | - | 0.14  | 0.728 | 0.807 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Right Tilted | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.85 | 19.30 | 1.109 | - | - | 0.01  | 0.686 | 0.761 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Cheek   | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.85 | 19.30 | 1.109 | - | - | 0.08  | 0.415 | 0.460 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Tilted  | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.85 | 19.30 | 1.109 | - | - | -0.14 | 0.477 | 0.529 |
| 08      | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Right Cheek  | 0mm | Ant 3 | DSI 2       | 132072 | 1720   | 1 | 18.68 | 19.30 | 1.153 | - | - | 0.13  | 0.785 | 0.905 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Right Cheek  | 0mm | Ant 3 | DSI 2       | 132572 | 1770   | 1 | 18.78 | 19.30 | 1.127 | - | - | -0.02 | 0.722 | 0.814 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Right Cheek  | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.85 | 19.30 | 1.109 | - | - | 0.12  | 0.706 | 0.783 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Right Tilted | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.85 | 19.30 | 1.109 | - | - | -0.1  | 0.677 | 0.751 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Left Cheek   | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.85 | 19.30 | 1.109 | - | - | 0.19  | 0.410 | 0.455 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Left Tilted  | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.85 | 19.30 | 1.109 | - | - | 0.04  | 0.474 | 0.526 |
|         | LTE Band 66 | 20M | QPSK | 100 | 0  | -            | Right Cheek  | 0mm | Ant 3 | DSI 2       | 132322 | 1745   | 1 | 18.81 | 19.30 | 1.119 | - | - | 0.18  | 0.675 | 0.756 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Right Cheek  | 0mm | Ant 3 | DSI 6       | 132322 | 1745   | 1 | 17.45 | 17.80 | 1.084 | - | - | 0.16  | 0.515 | 0.558 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Right Tilted | 0mm | Ant 3 | DSI 6       | 132322 | 1745   | 1 | 17.45 | 17.80 | 1.084 | - | - | -0.15 | 0.486 | 0.527 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Cheek   | 0mm | Ant 3 | DSI 6       | 132322 | 1745   | 1 | 17.45 | 17.80 | 1.084 | - | - | -0.11 | 0.299 | 0.324 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Tilted  | 0mm | Ant 3 | DSI 6       | 132322 | 1745   | 1 | 17.45 | 17.80 | 1.084 | - | - | -0.09 | 0.345 | 0.374 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Right Cheek  | 0mm | Ant 3 | DSI 6       | 132322 | 1745   | 1 | 17.39 | 17.80 | 1.099 | - | - | 0.11  | 0.500 | 0.550 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Right Tilted | 0mm | Ant 3 | DSI 6       | 132322 | 1745   | 1 | 17.39 | 17.80 | 1.099 | - | - | 0.14  | 0.479 | 0.526 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Left Cheek   | 0mm | Ant 3 | DSI 6       | 132322 | 1745   | 1 | 17.39 | 17.80 | 1.099 | - | - | -0.01 | 0.290 | 0.319 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Left Tilted  | 0mm | Ant 3 | DSI 6       | 132322 | 1745   | 1 | 17.39 | 17.80 | 1.099 | - | - | 0.17  | 0.336 | 0.369 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745   | 1 | 23.29 | 24.30 | 1.262 | - | - | 0.07  | 0.085 | 0.107 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745   | 1 | 23.29 | 24.30 | 1.262 | - | - | -     | n/a   | n/a   |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745   | 1 | 23.29 | 24.30 | 1.262 | - | - | 0.14  | 0.056 | 0.071 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745   | 1 | 23.29 | 24.30 | 1.262 | - | - | -     | n/a   | n/a   |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745   | 1 | 22.29 | 23.30 | 1.262 | - | - | 0.04  | 0.070 | 0.088 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |             |     |      |     |    |        |              |     |       |             |        |      |   |       |       |       |   |   |       |       |       |
|----|-------------|-----|------|-----|----|--------|--------------|-----|-------|-------------|--------|------|---|-------|-------|-------|---|---|-------|-------|-------|
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745 | 1 | 22.29 | 23.30 | 1.262 | - | - | -     | n/a   | n/a   |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745 | 1 | 22.29 | 23.30 | 1.262 | - | - | 0.01  | 0.044 | 0.056 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745 | 1 | 22.29 | 23.30 | 1.262 | - | - | -     | n/a   | n/a   |
|    | LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Right Cheek  | 0mm | Ant 4 | DSI 2       | 132322 | 1745 | 1 | 17.46 | 17.80 | 1.081 | - | - | 0.16  | 0.499 | 0.540 |
|    | LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Right Tilted | 0mm | Ant 4 | DSI 2       | 132322 | 1745 | 1 | 17.46 | 17.80 | 1.081 | - | - | -0.19 | 0.201 | 0.217 |
|    | LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Left Cheek   | 0mm | Ant 4 | DSI 2       | 132322 | 1745 | 1 | 17.46 | 17.80 | 1.081 | - | - | -0.14 | 0.140 | 0.151 |
|    | LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Left Tilted  | 0mm | Ant 4 | DSI 2       | 132322 | 1745 | 1 | 17.46 | 17.80 | 1.081 | - | - | -0.18 | 0.072 | 0.078 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Right Cheek  | 0mm | Ant 4 | DSI 2       | 132322 | 1745 | 1 | 17.38 | 17.80 | 1.102 | - | - | -0.11 | 0.502 | 0.553 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Right Tilted | 0mm | Ant 4 | DSI 2       | 132322 | 1745 | 1 | 17.38 | 17.80 | 1.102 | - | - | 0.01  | 0.199 | 0.219 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Left Cheek   | 0mm | Ant 4 | DSI 2       | 132322 | 1745 | 1 | 17.38 | 17.80 | 1.102 | - | - | -0.02 | 0.139 | 0.153 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Left Tilted  | 0mm | Ant 4 | DSI 2       | 132322 | 1745 | 1 | 17.38 | 17.80 | 1.102 | - | - | -0.07 | 0.072 | 0.079 |
|    | LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Right Cheek  | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 16.53 | 16.80 | 1.064 | - | - | -0.03 | 0.412 | 0.438 |
|    | LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Right Tilted | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 16.53 | 16.80 | 1.064 | - | - | 0.01  | 0.162 | 0.172 |
|    | LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Left Cheek   | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 16.53 | 16.80 | 1.064 | - | - | -0.15 | 0.119 | 0.127 |
|    | LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Left Tilted  | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 16.53 | 16.80 | 1.064 | - | - | -0.19 | 0.061 | 0.065 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Right Cheek  | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 16.51 | 16.80 | 1.069 | - | - | -0.01 | 0.399 | 0.427 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Right Tilted | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 16.51 | 16.80 | 1.069 | - | - | 0.04  | 0.158 | 0.169 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Left Cheek   | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 16.51 | 16.80 | 1.069 | - | - | -0.03 | 0.110 | 0.118 |
|    | LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Left Tilted  | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 16.51 | 16.80 | 1.069 | - | - | -0.04 | 0.057 | 0.061 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.92 | 19.20 | 1.343 | - | - | -0.12 | 0.601 | 0.807 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.92 | 19.20 | 1.343 | - | - | -0.13 | 0.575 | 0.772 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.92 | 19.20 | 1.343 | - | - | -0.16 | 0.335 | 0.450 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.92 | 19.20 | 1.343 | - | - | -0.06 | 0.395 | 0.530 |
| 09 | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.87 | 19.20 | 1.358 | - | - | 0.14  | 0.764 | 1.038 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.87 | 19.20 | 1.358 | - | - | 0.17  | 0.725 | 0.985 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.87 | 19.20 | 1.358 | - | - | -0.17 | 0.397 | 0.539 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.87 | 19.20 | 1.358 | - | - | 0.12  | 0.459 | 0.623 |
|    | FR1 n66     | 40M | QPSK | 216 | 0  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.82 | 19.20 | 1.374 | - | - | 0.01  | 0.686 | 0.943 |
|    | FR1 n66     | 40M | QPSK | 216 | 0  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 17.82 | 19.20 | 1.374 | - | - | -0.13 | 0.682 | 0.937 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 16.84 | 18.20 | 1.368 | - | - | -0.09 | 0.477 | 0.652 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 16.84 | 18.20 | 1.368 | - | - | 0.13  | 0.457 | 0.625 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 16.84 | 18.20 | 1.368 | - | - | 0     | 0.266 | 0.364 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 16.84 | 18.20 | 1.368 | - | - | 0.18  | 0.314 | 0.429 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 16.83 | 18.20 | 1.371 | - | - | -0.05 | 0.544 | 0.746 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 16.83 | 18.20 | 1.371 | - | - | 0.03  | 0.522 | 0.716 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 16.83 | 18.20 | 1.371 | - | - | -0.11 | 0.315 | 0.432 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 16.83 | 18.20 | 1.371 | - | - | -0.18 | 0.365 | 0.500 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.86 | 23.70 | 1.213 | - | - | 0.11  | 0.073 | 0.089 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.86 | 23.70 | 1.213 | - | - | -     | n/a   | n/a   |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.86 | 23.70 | 1.213 | - | - | -     | n/a   | n/a   |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.86 | 23.70 | 1.213 | - | - | -     | n/a   | n/a   |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.85 | 23.70 | 1.216 | - | - | 0.12  | 0.084 | 0.102 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.85 | 23.70 | 1.216 | - | - | -     | n/a   | n/a   |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.85 | 23.70 | 1.216 | - | - | -     | n/a   | n/a   |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.85 | 23.70 | 1.216 | - | - | -     | n/a   | n/a   |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 16.08 | 17.20 | 1.294 | - | - | 0.04  | 0.452 | 0.585 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 16.08 | 17.20 | 1.294 | - | - | -0.04 | 0.167 | 0.216 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 16.08 | 17.20 | 1.294 | - | - | -0.1  | 0.098 | 0.127 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 16.08 | 17.20 | 1.294 | - | - | -0.19 | 0.058 | 0.075 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 16.04 | 17.20 | 1.306 | - | - | -0.11 | 0.515 | 0.673 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 16.04 | 17.20 | 1.306 | - | - | 0.03  | 0.192 | 0.251 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 16.04 | 17.20 | 1.306 | - | - | -0.13 | 0.110 | 0.144 |
|    | FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 16.04 | 17.20 | 1.306 | - | - | -0.11 | 0.064 | 0.084 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 14.52 | 15.70 | 1.312 | - | - | -0.06 | 0.301 | 0.395 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 14.52 | 15.70 | 1.312 | - | - | -0.09 | 0.118 | 0.155 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 14.52 | 15.70 | 1.312 | - | - | 0.01  | 0.069 | 0.091 |
|    | FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 14.52 | 15.70 | 1.312 | - | - | -0.19 | 0.041 | 0.054 |



# FCC SAR Test Report

Report No. : FA3O3018

|         |            |     |      |     |    |                   |              |     |       |             |        |        |   |       |       |       |   |   |       |       |       |
|---------|------------|-----|------|-----|----|-------------------|--------------|-----|-------|-------------|--------|--------|---|-------|-------|-------|---|---|-------|-------|-------|
|         | FR1 n66    | 40M | QPSK | 108 | 54 | DFT-15            | Right Cheek  | 0mm | Ant 4 | DSI 6       | 349000 | 1745   | 1 | 14.50 | 15.70 | 1.318 | - | - | 0.07  | 0.365 | 0.481 |
|         | FR1 n66    | 40M | QPSK | 108 | 54 | DFT-15            | Right Tilted | 0mm | Ant 4 | DSI 6       | 349000 | 1745   | 1 | 14.50 | 15.70 | 1.318 | - | - | 0.06  | 0.136 | 0.179 |
|         | FR1 n66    | 40M | QPSK | 108 | 54 | DFT-15            | Left Cheek   | 0mm | Ant 4 | DSI 6       | 349000 | 1745   | 1 | 14.50 | 15.70 | 1.318 | - | - | 0.06  | 0.078 | 0.103 |
|         | FR1 n66    | 40M | QPSK | 108 | 54 | DFT-15            | Left Tilted  | 0mm | Ant 4 | DSI 6       | 349000 | 1745   | 1 | 14.50 | 15.70 | 1.318 | - | - | 0.11  | 0.045 | 0.059 |
| 1900MHz |            |     |      |     |    |                   |              |     |       |             |        |        |   |       |       |       |   |   |       |       |       |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Right Cheek  | 0mm | Ant 3 | DSI 2       | 661    | 1880   | 1 | 21.58 | 21.80 | 1.052 | - | - | -0.16 | 0.851 | 0.895 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Right Tilted | 0mm | Ant 3 | DSI 2       | 661    | 1880   | 1 | 21.58 | 21.80 | 1.052 | - | - | 0.02  | 0.676 | 0.711 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Left Cheek   | 0mm | Ant 3 | DSI 2       | 661    | 1880   | 1 | 21.58 | 21.80 | 1.052 | - | - | -0.18 | 0.446 | 0.469 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Left Tilted  | 0mm | Ant 3 | DSI 2       | 661    | 1880   | 1 | 21.58 | 21.80 | 1.052 | - | - | -0.16 | 0.499 | 0.525 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Right Cheek  | 0mm | Ant 3 | DSI 2       | 512    | 1850.2 | 1 | 21.41 | 21.80 | 1.094 | - | - | 0.12  | 0.740 | 0.810 |
| 10      | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Right Cheek  | 0mm | Ant 3 | DSI 2       | 810    | 1909.8 | 1 | 21.56 | 21.80 | 1.057 | - | - | 0.18  | 0.933 | 0.986 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Right Cheek  | 0mm | Ant 3 | DSI 6       | 661    | 1880   | 1 | 20.66 | 20.80 | 1.033 | - | - | -0.19 | 0.602 | 0.622 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Right Tilted | 0mm | Ant 3 | DSI 6       | 661    | 1880   | 1 | 20.66 | 20.80 | 1.033 | - | - | -0.02 | 0.479 | 0.495 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Left Cheek   | 0mm | Ant 3 | DSI 6       | 661    | 1880   | 1 | 20.66 | 20.80 | 1.033 | - | - | 0.04  | 0.316 | 0.326 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Left Tilted  | 0mm | Ant 3 | DSI 6       | 661    | 1880   | 1 | 20.66 | 20.80 | 1.033 | - | - | -0.09 | 0.353 | 0.365 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 661    | 1880   | 1 | 23.29 | 24.80 | 1.416 | - | - | 0.08  | 0.050 | 0.071 |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 661    | 1880   | 1 | 23.29 | 24.80 | 1.416 | - | - | -     | n/a   | n/a   |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 661    | 1880   | 1 | 23.29 | 24.80 | 1.416 | - | - | -     | n/a   | n/a   |
|         | GSM1900    | -   | -    | -   | -  | GPRS (4 Tx slots) | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 661    | 1880   | 1 | 23.29 | 24.80 | 1.416 | - | - | -     | n/a   | n/a   |
| 11      | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Cheek  | 0mm | Ant 3 | DSI 2       | 9400   | 1880   | 1 | 17.75 | 18.40 | 1.161 | - | - | 0.07  | 0.908 | 1.055 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Tilted | 0mm | Ant 3 | DSI 2       | 9400   | 1880   | 1 | 17.75 | 18.40 | 1.161 | - | - | -0.13 | 0.702 | 0.815 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Left Cheek   | 0mm | Ant 3 | DSI 2       | 9400   | 1880   | 1 | 17.75 | 18.40 | 1.161 | - | - | 0.02  | 0.470 | 0.546 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Left Tilted  | 0mm | Ant 3 | DSI 2       | 9400   | 1880   | 1 | 17.75 | 18.40 | 1.161 | - | - | -0.03 | 0.503 | 0.584 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Cheek  | 0mm | Ant 3 | DSI 2       | 9262   | 1852.4 | 1 | 17.71 | 18.40 | 1.172 | - | - | -0.12 | 0.694 | 0.814 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Cheek  | 0mm | Ant 3 | DSI 2       | 9538   | 1907.6 | 1 | 17.71 | 18.40 | 1.172 | - | - | -0.07 | 0.695 | 0.815 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Tilted | 0mm | Ant 3 | DSI 2       | 9262   | 1852.4 | 1 | 17.71 | 18.40 | 1.172 | - | - | 0.09  | 0.664 | 0.778 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Tilted | 0mm | Ant 3 | DSI 2       | 9538   | 1907.6 | 1 | 17.71 | 18.40 | 1.172 | - | - | -0.16 | 0.701 | 0.822 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Cheek  | 0mm | Ant 3 | DSI 6       | 9400   | 1880   | 1 | 16.36 | 16.90 | 1.132 | - | - | -0.16 | 0.643 | 0.728 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Tilted | 0mm | Ant 3 | DSI 6       | 9400   | 1880   | 1 | 16.36 | 16.90 | 1.132 | - | - | 0.15  | 0.497 | 0.563 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Left Cheek   | 0mm | Ant 3 | DSI 6       | 9400   | 1880   | 1 | 16.36 | 16.90 | 1.132 | - | - | 0.18  | 0.333 | 0.377 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Left Tilted  | 0mm | Ant 3 | DSI 6       | 9400   | 1880   | 1 | 16.36 | 16.90 | 1.132 | - | - | 0.13  | 0.356 | 0.403 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 9400   | 1880   | 1 | 23.04 | 23.90 | 1.219 | - | - | 0.19  | 0.093 | 0.113 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 9400   | 1880   | 1 | 23.04 | 23.90 | 1.219 | - | - | 0.04  | 0.023 | 0.028 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 9400   | 1880   | 1 | 23.04 | 23.90 | 1.219 | - | - | 0.03  | 0.054 | 0.066 |
|         | WCDMA II   | -   | -    | -   | -  | RMC 12.2Kbps      | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 9400   | 1880   | 1 | 23.04 | 23.90 | 1.219 | - | - | -0.02 | 0.024 | 0.030 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.29 | 17.80 | 1.125 | - | - | 0.03  | 0.783 | 0.880 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Right Tilted | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.29 | 17.80 | 1.125 | - | - | -0.17 | 0.779 | 0.876 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.29 | 17.80 | 1.125 | - | - | 0.19  | 0.523 | 0.588 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.29 | 17.80 | 1.125 | - | - | -0.11 | 0.567 | 0.638 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 18700  | 1860   | 1 | 17.27 | 17.80 | 1.130 | - | - | 0.04  | 0.779 | 0.880 |
| 12      | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 19100  | 1900   | 1 | 17.25 | 17.80 | 1.135 | - | - | 0.19  | 0.800 | 0.908 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Right Tilted | 0mm | Ant 3 | DSI 2       | 18700  | 1860   | 1 | 17.27 | 17.80 | 1.130 | - | - | -0.15 | 0.756 | 0.854 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Right Tilted | 0mm | Ant 3 | DSI 2       | 19100  | 1900   | 1 | 17.25 | 17.80 | 1.135 | - | - | 0.13  | 0.797 | 0.904 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24 | -                 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.26 | 17.80 | 1.132 | - | - | 0.18  | 0.774 | 0.876 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24 | -                 | Right Tilted | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.26 | 17.80 | 1.132 | - | - | -0.18 | 0.763 | 0.864 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24 | -                 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.26 | 17.80 | 1.132 | - | - | 0.12  | 0.514 | 0.582 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24 | -                 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.26 | 17.80 | 1.132 | - | - | -0.19 | 0.563 | 0.637 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24 | -                 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 18700  | 1860   | 1 | 17.19 | 17.80 | 1.151 | - | - | 0.16  | 0.761 | 0.876 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24 | -                 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 19100  | 1900   | 1 | 17.25 | 17.80 | 1.135 | - | - | 0.18  | 0.771 | 0.875 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24 | -                 | Right Tilted | 0mm | Ant 3 | DSI 2       | 18700  | 1860   | 1 | 17.19 | 17.80 | 1.151 | - | - | 0.09  | 0.738 | 0.849 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24 | -                 | Right Tilted | 0mm | Ant 3 | DSI 2       | 19100  | 1900   | 1 | 17.25 | 17.80 | 1.135 | - | - | -0.07 | 0.754 | 0.856 |
|         | LTE Band 2 | 20M | QPSK | 100 | 0  | -                 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.25 | 17.80 | 1.135 | - | - | 0.04  | 0.781 | 0.886 |
|         | LTE Band 2 | 20M | QPSK | 100 | 0  | -                 | Right Tilted | 0mm | Ant 3 | DSI 2       | 18900  | 1880   | 1 | 17.25 | 17.80 | 1.135 | - | - | -0.15 | 0.774 | 0.878 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 18900  | 1880   | 1 | 16.24 | 16.80 | 1.138 | - | - | 0.07  | 0.622 | 0.708 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Right Tilted | 0mm | Ant 3 | DSI 6       | 18900  | 1880   | 1 | 16.24 | 16.80 | 1.138 | - | - | 0.02  | 0.619 | 0.704 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 18900  | 1880   | 1 | 16.24 | 16.80 | 1.138 | - | - | 0.1   | 0.405 | 0.461 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49 | -                 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 18900  | 1880   | 1 | 16.24 | 16.80 | 1.138 | - | - | 0.07  | 0.441 | 0.502 |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |     |    |        |              |     |       |             |             |             |   |       |       |       |   |   |       |       |       |
|---------|-------------|-----|------|-----|----|--------|--------------|-----|-------|-------------|-------------|-------------|---|-------|-------|-------|---|---|-------|-------|-------|
|         | LTE Band 2  | 20M | QPSK | 50  | 24 | -      | Right Cheek  | 0mm | Ant 3 | DSI 6       | 18900       | 1880        | 1 | 16.23 | 16.80 | 1.140 | - | - | -0.07 | 0.627 | 0.715 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24 | -      | Right Tilted | 0mm | Ant 3 | DSI 6       | 18900       | 1880        | 1 | 16.23 | 16.80 | 1.140 | - | - | -0.09 | 0.624 | 0.712 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24 | -      | Left Cheek   | 0mm | Ant 3 | DSI 6       | 18900       | 1880        | 1 | 16.23 | 16.80 | 1.140 | - | - | -0.13 | 0.408 | 0.465 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24 | -      | Left Tilted  | 0mm | Ant 3 | DSI 6       | 18900       | 1880        | 1 | 16.23 | 16.80 | 1.140 | - | - | -0.08 | 0.447 | 0.510 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49 | -      | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 18900       | 1880        | 1 | 22.11 | 22.80 | 1.172 | - | - | -0.1  | 0.079 | 0.093 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49 | -      | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 18900       | 1880        | 1 | 22.11 | 22.80 | 1.172 | - | - | 0.09  | 0.021 | 0.025 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49 | -      | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 18900       | 1880        | 1 | 22.11 | 22.80 | 1.172 | - | - | 0.02  | 0.044 | 0.052 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49 | -      | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 18900       | 1880        | 1 | 22.11 | 22.80 | 1.172 | - | - | 0.05  | 0.026 | 0.030 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24 | -      | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 18900       | 1880        | 1 | 21.08 | 21.80 | 1.180 | - | - | 0.04  | 0.061 | 0.072 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24 | -      | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 18900       | 1880        | 1 | 21.08 | 21.80 | 1.180 | - | - | 0.02  | 0.016 | 0.019 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24 | -      | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 18900       | 1880        | 1 | 21.08 | 21.80 | 1.180 | - | - | 0.18  | 0.034 | 0.040 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24 | -      | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 18900       | 1880        | 1 | 21.08 | 21.80 | 1.180 | - | - | 0.01  | 0.020 | 0.024 |
| 13      | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.57 | 18.20 | 1.156 | - | - | 0.02  | 0.818 | 0.946 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.57 | 18.20 | 1.156 | - | - | -0.19 | 0.761 | 0.880 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.57 | 18.20 | 1.156 | - | - | -0.13 | 0.445 | 0.514 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.57 | 18.20 | 1.156 | - | - | -0.1  | 0.494 | 0.571 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 372000      | 1860        | 1 | 17.55 | 18.20 | 1.161 | - | - | -0.03 | 0.751 | 0.872 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 380000      | 1900        | 1 | 17.52 | 18.20 | 1.169 | - | - | -0.08 | 0.713 | 0.834 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 372000      | 1860        | 1 | 17.55 | 18.20 | 1.161 | - | - | 0.13  | 0.620 | 0.720 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 380000      | 1900        | 1 | 17.52 | 18.20 | 1.169 | - | - | 0.04  | 0.691 | 0.808 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.56 | 18.20 | 1.159 | - | - | 0.16  | 0.783 | 0.907 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.56 | 18.20 | 1.159 | - | - | 0.09  | 0.726 | 0.841 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.56 | 18.20 | 1.159 | - | - | 0.17  | 0.437 | 0.506 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.56 | 18.20 | 1.159 | - | - | -0.19 | 0.475 | 0.550 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 372000      | 1860        | 1 | 17.54 | 18.20 | 1.164 | - | - | -0.18 | 0.709 | 0.825 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 380000      | 1900        | 1 | 17.51 | 18.20 | 1.172 | - | - | 0.11  | 0.711 | 0.833 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 372000      | 1860        | 1 | 17.54 | 18.20 | 1.164 | - | - | -0.13 | 0.612 | 0.712 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 380000      | 1900        | 1 | 17.51 | 18.20 | 1.172 | - | - | 0.11  | 0.681 | 0.798 |
|         | FR1 n2      | 20M | QPSK | 100 | 0  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.56 | 18.20 | 1.159 | - | - | 0.04  | 0.645 | 0.747 |
|         | FR1 n2      | 20M | QPSK | 100 | 0  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 376000      | 1880        | 1 | 17.56 | 18.20 | 1.159 | - | - | -0.08 | 0.644 | 0.746 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 376000      | 1880        | 1 | 16.07 | 16.70 | 1.156 | - | - | -0.09 | 0.579 | 0.669 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 376000      | 1880        | 1 | 16.07 | 16.70 | 1.156 | - | - | 0.05  | 0.539 | 0.623 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 376000      | 1880        | 1 | 16.07 | 16.70 | 1.156 | - | - | 0.16  | 0.315 | 0.364 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 376000      | 1880        | 1 | 16.07 | 16.70 | 1.156 | - | - | 0.05  | 0.350 | 0.405 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 376000      | 1880        | 1 | 16.01 | 16.70 | 1.172 | - | - | 0.16  | 0.554 | 0.649 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 376000      | 1880        | 1 | 16.01 | 16.70 | 1.172 | - | - | -0.08 | 0.514 | 0.603 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 376000      | 1880        | 1 | 16.01 | 16.70 | 1.172 | - | - | 0.07  | 0.301 | 0.353 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 376000      | 1880        | 1 | 16.01 | 16.70 | 1.172 | - | - | 0.09  | 0.345 | 0.404 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 376000      | 1880        | 1 | 21.35 | 22.70 | 1.365 | - | - | 0.08  | 0.077 | 0.105 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 376000      | 1880        | 1 | 21.35 | 22.70 | 1.365 | - | - | -     | n/a   | n/a   |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 376000      | 1880        | 1 | 21.35 | 22.70 | 1.365 | - | - | -0.07 | 0.044 | 0.060 |
|         | FR1 n2      | 20M | QPSK | 1   | 53 | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 376000      | 1880        | 1 | 21.35 | 22.70 | 1.365 | - | - | -     | n/a   | n/a   |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 376000      | 1880        | 1 | 21.24 | 22.70 | 1.400 | - | - | 0.07  | 0.073 | 0.102 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 376000      | 1880        | 1 | 21.24 | 22.70 | 1.400 | - | - | -     | n/a   | n/a   |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 376000      | 1880        | 1 | 21.24 | 22.70 | 1.400 | - | - | 0.06  | 0.041 | 0.057 |
|         | FR1 n2      | 20M | QPSK | 50  | 28 | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 376000      | 1880        | 1 | 21.24 | 22.70 | 1.400 | - | - | -     | n/a   | n/a   |
| 2600MHz |             |     |      |     |    |        |              |     |       |             |             |             |   |       |       |       |   |   |       |       |       |
|         | LTE Band 7  | 20M | QPSK | 1   | 49 | -      | Right Cheek  | 0mm | Ant 3 | DSI 2       | 21100       | 2535        | 1 | 16.29 | 17.30 | 1.262 | - | - | 0.06  | 0.571 | 0.721 |
| 14      | LTE Band 7  | 20M | QPSK | 1   | 49 | -      | Right Tilted | 0mm | Ant 3 | DSI 2       | 21100       | 2535        | 1 | 16.29 | 17.30 | 1.262 | - | - | -0.11 | 0.859 | 1.084 |
|         | LTE Band 7C | 20M | QPSK | 1   | 49 | -      | Right Tilted | 0mm | Ant 3 | DSI 2       | 21100+20902 | 2535+2515.2 | 1 | 16.24 | 16.60 | 1.086 | - | - | -0.1  | 0.802 | 0.871 |
|         | LTE Band 7  | 20M | QPSK | 1   | 49 | -      | Left Cheek   | 0mm | Ant 3 | DSI 2       | 21100       | 2535        | 1 | 16.29 | 17.30 | 1.262 | - | - | -0.08 | 0.386 | 0.487 |
|         | LTE Band 7  | 20M | QPSK | 1   | 49 | -      | Left Tilted  | 0mm | Ant 3 | DSI 2       | 21100       | 2535        | 1 | 16.29 | 17.30 | 1.262 | - | - | 0.03  | 0.467 | 0.589 |
|         | LTE Band 7  | 20M | QPSK | 1   | 49 | -      | Right Tilted | 0mm | Ant 3 | DSI 2       | 20850       | 2510        | 1 | 16.23 | 17.30 | 1.279 | - | - | 0.02  | 0.812 | 1.039 |
|         | LTE Band 7  | 20M | QPSK | 1   | 49 | -      | Right Tilted | 0mm | Ant 3 | DSI 2       | 21350       | 2560        | 1 | 16.17 | 17.30 | 1.297 | - | - | 0.12  | 0.801 | 1.039 |
|         | LTE Band 7  | 20M | QPSK | 50  | 24 | -      | Right Cheek  | 0mm | Ant 3 | DSI 2       | 21100       | 2535        | 1 | 16.22 | 17.30 | 1.282 | - | - | 0.07  | 0.560 | 0.718 |
|         | LTE Band 7  | 20M | QPSK | 50  | 24 | -      | Right Tilted | 0mm | Ant 3 | DSI 2       | 21100       | 2535        | 1 | 16.22 | 17.30 | 1.282 | - | - | 0.08  | 0.811 | 1.040 |
|         | LTE Band 7  | 20M | QPSK | 50  | 24 | -      | Left Cheek   | 0mm | Ant 3 | DSI 2       | 21100       | 2535        | 1 | 16.22 | 17.30 | 1.282 | - | - | -0.08 | 0.375 | 0.481 |



# FCC SAR Test Report

Report No. : FA3O3018

|              |     |      |     |    |   |              |     |       |             |             |               |   |       |       |       |      |       |       |       |       |
|--------------|-----|------|-----|----|---|--------------|-----|-------|-------------|-------------|---------------|---|-------|-------|-------|------|-------|-------|-------|-------|
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 21100       | 2535          | 1 | 16.22 | 17.30 | 1.282 | -    | -     | 0.04  | 0.453 | 0.581 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 20850       | 2510          | 1 | 16.19 | 17.30 | 1.291 | -    | -     | -0.17 | 0.795 | 1.027 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 21350       | 2560          | 1 | 16.20 | 17.30 | 1.288 | -    | -     | -0.1  | 0.779 | 1.004 |
| LTE Band 7   | 20M | QPSK | 100 | 0  | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 21100       | 2535          | 1 | 16.18 | 17.30 | 1.294 | -    | -     | -0.17 | 0.738 | 0.955 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.29 | 16.30 | 1.262 | -    | -     | 0.13  | 0.454 | 0.573 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.29 | 16.30 | 1.262 | -    | -     | -0.13 | 0.682 | 0.861 |
| LTE Band 7C  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 21100+20902 | 2535+2515.2   | 1 | 15.25 | 15.60 | 1.084 | -    | -     | 0.02  | 0.545 | 0.591 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.29 | 16.30 | 1.262 | -    | -     | -0.05 | 0.307 | 0.387 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.29 | 16.30 | 1.262 | -    | -     | -0.17 | 0.371 | 0.468 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 20850       | 2510          | 1 | 15.18 | 16.30 | 1.294 | -    | -     | -0.08 | 0.645 | 0.835 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 21350       | 2560          | 1 | 15.22 | 16.30 | 1.282 | -    | -     | -0.17 | 0.636 | 0.816 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.28 | 16.30 | 1.265 | -    | -     | -0.18 | 0.445 | 0.563 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.28 | 16.30 | 1.265 | -    | -     | -0.15 | 0.644 | 0.814 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.28 | 16.30 | 1.265 | -    | -     | -0.06 | 0.298 | 0.377 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.28 | 16.30 | 1.265 | -    | -     | 0.08  | 0.360 | 0.455 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 20850       | 2510          | 1 | 15.26 | 16.30 | 1.271 | -    | -     | -0.1  | 0.631 | 0.802 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 21350       | 2560          | 1 | 15.21 | 16.30 | 1.285 | -    | -     | -0.08 | 0.619 | 0.796 |
| LTE Band 7   | 20M | QPSK | 100 | 0  | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 21100       | 2535          | 1 | 15.25 | 16.30 | 1.274 | -    | -     | 0.03  | 0.598 | 0.762 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 21100       | 2535          | 1 | 23.90 | 24.30 | 1.096 | -    | -     | -0.1  | 0.120 | 0.132 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 21100       | 2535          | 1 | 23.90 | 24.30 | 1.096 | -    | -     | 0.14  | 0.062 | 0.068 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 21100       | 2535          | 1 | 23.90 | 24.30 | 1.096 | -    | -     | -0.04 | 0.185 | 0.203 |
| LTE Band 7C  | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 21100+20902 | 2535+2515.2   | 1 | 23.54 | 23.60 | 1.014 | -    | -     | 0.1   | 0.173 | 0.175 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 21100       | 2535          | 1 | 23.90 | 24.30 | 1.096 | -    | -     | -0.15 | 0.084 | 0.092 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 21100       | 2535          | 1 | 22.91 | 23.30 | 1.094 | -    | -     | 0.04  | 0.094 | 0.103 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 21100       | 2535          | 1 | 22.91 | 23.30 | 1.094 | -    | -     | 0.09  | 0.049 | 0.054 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 21100       | 2535          | 1 | 22.91 | 23.30 | 1.094 | -    | -     | 0.16  | 0.149 | 0.163 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 21100       | 2535          | 1 | 22.91 | 23.30 | 1.094 | -    | -     | 0.16  | 0.066 | 0.072 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.56 | 21.80 | 1.330 | -    | -     | 0.1   | 0.653 | 0.869 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.56 | 21.80 | 1.330 | -    | -     | -0.03 | 0.293 | 0.390 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.56 | 21.80 | 1.330 | -    | -     | -0.17 | 0.180 | 0.239 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.56 | 21.80 | 1.330 | -    | -     | 0.1   | 0.141 | 0.188 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 20850       | 2510          | 1 | 20.52 | 21.80 | 1.343 | -    | -     | 0.09  | 0.604 | 0.811 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 21350       | 2560          | 1 | 20.40 | 21.80 | 1.380 | -    | -     | -0.04 | 0.592 | 0.817 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.55 | 21.80 | 1.334 | -    | -     | 0.02  | 0.732 | 0.976 |
| LTE Band 7C  | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 21100+20902 | 2535+2515.2   | 1 | 20.50 | 21.10 | 1.148 | -    | -     | 0.02  | 0.684 | 0.785 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.55 | 21.80 | 1.334 | -    | -     | 0.04  | 0.295 | 0.393 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.55 | 21.80 | 1.334 | -    | -     | -0.1  | 0.179 | 0.239 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.55 | 21.80 | 1.334 | -    | -     | -0.16 | 0.141 | 0.188 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 20850       | 2510          | 1 | 20.54 | 21.80 | 1.337 | -    | -     | 0.02  | 0.627 | 0.838 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 21350       | 2560          | 1 | 20.39 | 21.80 | 1.384 | -    | -     | 0.12  | 0.592 | 0.819 |
| LTE Band 7   | 20M | QPSK | 100 | 0  | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 21100       | 2535          | 1 | 20.50 | 21.80 | 1.349 | -    | -     | 0.02  | 0.596 | 0.804 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 4 | DSI 6       | 21100       | 2535          | 1 | 19.51 | 20.80 | 1.346 | -    | -     | 0.17  | 0.519 | 0.699 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 4 | DSI 6       | 21100       | 2535          | 1 | 19.51 | 20.80 | 1.346 | -    | -     | -0.14 | 0.233 | 0.314 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 4 | DSI 6       | 21100       | 2535          | 1 | 19.51 | 20.80 | 1.346 | -    | -     | 0.02  | 0.143 | 0.192 |
| LTE Band 7   | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 4 | DSI 6       | 21100       | 2535          | 1 | 19.51 | 20.80 | 1.346 | -    | -     | -0.14 | 0.112 | 0.151 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 6       | 21100       | 2535          | 1 | 19.47 | 20.80 | 1.358 | -    | -     | 0.03  | 0.581 | 0.789 |
| LTE Band 7C  | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 6       | 21100+20902 | 2535+2515.2   | 1 | 19.46 | 20.10 | 1.159 | -    | -     | 0.01  | 0.543 | 0.629 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 4 | DSI 6       | 21100       | 2535          | 1 | 19.47 | 20.80 | 1.358 | -    | -     | 0.16  | 0.234 | 0.318 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 4 | DSI 6       | 21100       | 2535          | 1 | 19.47 | 20.80 | 1.358 | -    | -     | -0.16 | 0.142 | 0.193 |
| LTE Band 7   | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 4 | DSI 6       | 21100       | 2535          | 1 | 19.47 | 20.80 | 1.358 | -    | -     | 0.13  | 0.112 | 0.152 |
| LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.23 | 18.40 | 1.309 | 62.9 | 1.006 | 0.03  | 0.519 | 0.684 |
| LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.23 | 18.40 | 1.309 | 62.9 | 1.006 | 0.12  | 0.715 | 0.942 |
| LTE Band 38C | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 37901+38099 | 2585.1+2604.9 | 1 | 17.18 | 17.60 | 1.102 | 62.9 | 1.006 | 0.17  | 0.678 | 0.751 |
| LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.23 | 18.40 | 1.309 | 62.9 | 1.006 | 0.01  | 0.299 | 0.394 |
| LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.23 | 18.40 | 1.309 | 62.9 | 1.006 | -0.04 | 0.335 | 0.441 |
| LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.18 | 18.40 | 1.324 | 62.9 | 1.006 | 0.17  | 0.511 | 0.681 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |              |     |      |     |    |   |              |     |       |             |             |               |   |       |       |       |      |       |       |       |       |
|----|--------------|-----|------|-----|----|---|--------------|-----|-------|-------------|-------------|---------------|---|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.18 | 18.40 | 1.324 | 62.9 | 1.006 | -0.15 | 0.672 | 0.895 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.18 | 18.40 | 1.324 | 62.9 | 1.006 | 0.14  | 0.281 | 0.374 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.18 | 18.40 | 1.324 | 62.9 | 1.006 | 0.17  | 0.321 | 0.428 |
|    | LTE Band 38  | 20M | QPSK | 100 | 0  | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 38000       | 2595          | 1 | 17.14 | 18.40 | 1.337 | 62.9 | 1.006 | 0.14  | 0.653 | 0.878 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 38000       | 2595          | 1 | 15.67 | 16.90 | 1.327 | 62.9 | 1.006 | 0.13  | 0.384 | 0.513 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 38000       | 2595          | 1 | 15.67 | 16.90 | 1.327 | 62.9 | 1.006 | 0.17  | 0.506 | 0.676 |
|    | LTE Band 38C | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 37901+38099 | 2585.1+2604.9 | 1 | 15.55 | 16.10 | 1.135 | 62.9 | 1.006 | 0.07  | 0.473 | 0.540 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 3 | DSI 6       | 38000       | 2595          | 1 | 15.67 | 16.90 | 1.327 | 62.9 | 1.006 | 0.08  | 0.229 | 0.306 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 6       | 38000       | 2595          | 1 | 15.67 | 16.90 | 1.327 | 62.9 | 1.006 | -0.1  | 0.257 | 0.343 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 38000       | 2595          | 1 | 15.57 | 16.90 | 1.358 | 62.9 | 1.006 | -0.11 | 0.367 | 0.501 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 38000       | 2595          | 1 | 15.57 | 16.90 | 1.358 | 62.9 | 1.006 | -0.14 | 0.457 | 0.624 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 3 | DSI 6       | 38000       | 2595          | 1 | 15.57 | 16.90 | 1.358 | 62.9 | 1.006 | -0.19 | 0.217 | 0.297 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 6       | 38000       | 2595          | 1 | 15.57 | 16.90 | 1.358 | 62.9 | 1.006 | -0.06 | 0.241 | 0.329 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 38000       | 2595          | 1 | 24.08 | 24.40 | 1.076 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 38000       | 2595          | 1 | 24.08 | 24.40 | 1.076 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 38000       | 2595          | 1 | 24.08 | 24.40 | 1.076 | 62.9 | 1.006 | 0.04  | 0.051 | 0.055 |
|    | LTE Band 38C | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 37901+38099 | 2585.1+2604.9 | 1 | 23.51 | 23.60 | 1.021 | 62.9 | 1.006 | 0.03  | 0.049 | 0.050 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 38000       | 2595          | 1 | 24.08 | 24.40 | 1.076 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 38000       | 2595          | 1 | 23.07 | 23.40 | 1.079 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 38000       | 2595          | 1 | 23.07 | 23.40 | 1.079 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 38000       | 2595          | 1 | 23.07 | 23.40 | 1.079 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 38000       | 2595          | 1 | 23.07 | 23.40 | 1.079 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.13 | 23.40 | 1.340 | 62.9 | 1.006 | 0.08  | 0.697 | 0.939 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.13 | 23.40 | 1.340 | 62.9 | 1.006 | 0.13  | 0.287 | 0.387 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.13 | 23.40 | 1.340 | 62.9 | 1.006 | -0.14 | 0.138 | 0.186 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.13 | 23.40 | 1.340 | 62.9 | 1.006 | 0.03  | 0.122 | 0.164 |
| 15 | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.09 | 23.40 | 1.352 | 62.9 | 1.006 | 0.03  | 0.760 | 1.034 |
|    | LTE Band 38C | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 37901+38099 | 2585.1+2604.9 | 1 | 21.81 | 22.60 | 1.199 | 62.9 | 1.006 | 0.03  | 0.725 | 0.875 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.09 | 23.40 | 1.352 | 62.9 | 1.006 | -0.04 | 0.291 | 0.396 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.09 | 23.40 | 1.352 | 62.9 | 1.006 | 0.14  | 0.140 | 0.190 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.09 | 23.40 | 1.352 | 62.9 | 1.006 | -0.18 | 0.124 | 0.169 |
|    | LTE Band 38  | 20M | QPSK | 100 | 0  | - | Right Cheek  | 0mm | Ant 4 | DSI 2       | 38000       | 2595          | 1 | 22.02 | 23.40 | 1.374 | 62.9 | 1.006 | -0.02 | 0.653 | 0.903 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.99 | 22.40 | 1.384 | 62.9 | 1.006 | -0.02 | 0.575 | 0.800 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.99 | 22.40 | 1.384 | 62.9 | 1.006 | 0.02  | 0.228 | 0.317 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.99 | 22.40 | 1.384 | 62.9 | 1.006 | 0.13  | 0.110 | 0.153 |
|    | LTE Band 38  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.99 | 22.40 | 1.384 | 62.9 | 1.006 | -0.05 | 0.097 | 0.135 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.95 | 22.40 | 1.396 | 62.9 | 1.006 | -0.19 | 0.604 | 0.848 |
|    | LTE Band 38C | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 4 | DSI 6       | 37901+38099 | 2585.1+2604.9 | 1 | 20.75 | 21.60 | 1.216 | 62.9 | 1.006 | -0.02 | 0.564 | 0.690 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.95 | 22.40 | 1.396 | 62.9 | 1.006 | -0.08 | 0.231 | 0.324 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.95 | 22.40 | 1.396 | 62.9 | 1.006 | -0.12 | 0.111 | 0.156 |
|    | LTE Band 38  | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.95 | 22.40 | 1.396 | 62.9 | 1.006 | -0.1  | 0.098 | 0.138 |
|    | LTE Band 38  | 20M | QPSK | 100 | 0  | - | Right Cheek  | 0mm | Ant 4 | DSI 6       | 38000       | 2595          | 1 | 20.95 | 22.40 | 1.396 | 62.9 | 1.006 | 0.02  | 0.553 | 0.777 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 40620       | 2593          | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | 0.16  | 0.737 | 0.877 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 40620       | 2593          | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | 0.12  | 0.774 | 0.922 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 3 | DSI 2       | 40620       | 2593          | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | 0.16  | 0.450 | 0.535 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 40620       | 2593          | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | -0.02 | 0.544 | 0.647 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 39750       | 2506          | 1 | 16.92 | 17.80 | 1.225 | 62.9 | 1.006 | 0.02  | 0.658 | 0.811 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 40185       | 2549.5        | 1 | 16.54 | 17.80 | 1.337 | 62.9 | 1.006 | 0.15  | 0.659 | 0.886 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 41055       | 2636.5        | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | 0.08  | 0.649 | 0.808 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 41490       | 2680          | 1 | 16.98 | 17.80 | 1.208 | 62.9 | 1.006 | -0.01 | 0.651 | 0.790 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 39750       | 2506          | 1 | 16.92 | 17.80 | 1.225 | 62.9 | 1.006 | 0.15  | 0.690 | 0.850 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 40185       | 2549.5        | 1 | 16.54 | 17.80 | 1.337 | 62.9 | 1.006 | -0.02 | 0.681 | 0.915 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 41055       | 2636.5        | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | -0.12 | 0.682 | 0.850 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 41490       | 2680          | 1 | 16.98 | 17.80 | 1.208 | 62.9 | 1.006 | 0.05  | 0.687 | 0.835 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 39750       | 2506          | 1 | 16.92 | 17.80 | 1.225 | 62.9 | 1.006 | 0.09  | 0.502 | 0.619 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 40185       | 2549.5        | 1 | 16.54 | 17.80 | 1.337 | 62.9 | 1.006 | 0.04  | 0.508 | 0.683 |
|    | LTE Band 41  | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 41055       | 2636.5        | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | 0.14  | 0.464 | 0.578 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |                 |     |      |     |    |   |              |     |       |             |                 |                 |   |       |       |       |      |       |       |       |       |
|----|-----------------|-----|------|-----|----|---|--------------|-----|-------|-------------|-----------------|-----------------|---|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 41490           | 2680            | 1 | 16.98 | 17.80 | 1.208 | 62.9 | 1.006 | 0.15  | 0.433 | 0.526 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 40620           | 2593            | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | 0.12  | 0.739 | 0.902 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 40620           | 2593            | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | -0.06 | 0.774 | 0.945 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 3 | DSI 2       | 40620           | 2593            | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | -0.02 | 0.451 | 0.551 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 40620           | 2593            | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | 0.1   | 0.545 | 0.666 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 39750           | 2506            | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | 0.15  | 0.668 | 0.833 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 40185           | 2549.5          | 1 | 16.37 | 17.80 | 1.390 | 62.9 | 1.006 | -0.05 | 0.671 | 0.939 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 41055           | 2636.5          | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | 0.05  | 0.655 | 0.817 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 41490           | 2680            | 1 | 16.84 | 17.80 | 1.247 | 62.9 | 1.006 | -0.15 | 0.667 | 0.838 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 39750           | 2506            | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | 0.16  | 0.696 | 0.867 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 40185           | 2549.5          | 1 | 16.37 | 17.80 | 1.390 | 62.9 | 1.006 | 0.03  | 0.681 | 0.952 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 41055           | 2636.5          | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | 0.15  | 0.686 | 0.855 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 41490           | 2680            | 1 | 16.84 | 17.80 | 1.247 | 62.9 | 1.006 | 0.17  | 0.766 | 0.961 |
|    | LTE Band 41C    | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 41490+<br>41292 | 2680+<br>2660.2 | 1 | 16.60 | 17.30 | 1.175 | 62.9 | 1.006 | 0.03  | 0.647 | 0.764 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 41055           | 2636.5          | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | 0.03  | 0.517 | 0.645 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 41490           | 2680            | 1 | 16.37 | 17.80 | 1.390 | 62.9 | 1.006 | 0.11  | 0.491 | 0.686 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 41055           | 2636.5          | 1 | 16.87 | 17.80 | 1.239 | 62.9 | 1.006 | 0.15  | 0.477 | 0.594 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 41490           | 2680            | 1 | 16.84 | 17.80 | 1.247 | 62.9 | 1.006 | 0.17  | 0.476 | 0.597 |
| 16 | LTE Band 41 PC2 | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 41490           | 2680            | 1 | 19.90 | 20.80 | 1.230 | 42.9 | 1.009 | -0.03 | 0.952 | 1.182 |
|    | LTE Band 41 PC2 | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 41490           | 2680            | 2 | 19.90 | 20.80 | 1.230 | 42.9 | 1.009 | -0.01 | 0.896 | 1.112 |
|    | LTE Band 41     | 20M | QPSK | 100 | 0  | - | Right Cheek  | 0mm | Ant 3 | DSI 2       | 40620           | 2593            | 1 | 16.90 | 17.80 | 1.230 | 62.9 | 1.006 | -0.14 | 0.767 | 0.949 |
|    | LTE Band 41     | 20M | QPSK | 100 | 0  | - | Right Tilted | 0mm | Ant 3 | DSI 2       | 40620           | 2593            | 1 | 16.90 | 17.80 | 1.230 | 62.9 | 1.006 | 0.01  | 0.789 | 0.977 |
|    | LTE Band 41     | 20M | QPSK | 100 | 0  | - | Left Tilted  | 0mm | Ant 3 | DSI 2       | 40620           | 2593            | 1 | 16.90 | 17.80 | 1.230 | 62.9 | 1.006 | -0.02 | 0.509 | 0.630 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.48 | 16.30 | 1.208 | 62.9 | 1.006 | -0.11 | 0.556 | 0.676 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.48 | 16.30 | 1.208 | 62.9 | 1.006 | -0.13 | 0.584 | 0.710 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.48 | 16.30 | 1.208 | 62.9 | 1.006 | 0.17  | 0.339 | 0.412 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.48 | 16.30 | 1.208 | 62.9 | 1.006 | -0.02 | 0.410 | 0.498 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 39750           | 2506            | 1 | 15.28 | 16.30 | 1.265 | 62.9 | 1.006 | 0.01  | 0.525 | 0.668 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 40185           | 2549.5          | 1 | 14.96 | 16.30 | 1.361 | 62.9 | 1.006 | 0.15  | 0.509 | 0.697 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 41055           | 2636.5          | 1 | 15.30 | 16.30 | 1.259 | 62.9 | 1.006 | 0.13  | 0.518 | 0.656 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 41490           | 2680            | 1 | 15.44 | 16.30 | 1.219 | 62.9 | 1.006 | -0.03 | 0.511 | 0.627 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 39750           | 2506            | 1 | 15.28 | 16.30 | 1.265 | 62.9 | 1.006 | 0.02  | 0.569 | 0.724 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 40185           | 2549.5          | 1 | 14.96 | 16.30 | 1.361 | 62.9 | 1.006 | -0.07 | 0.533 | 0.730 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 41055           | 2636.5          | 1 | 15.30 | 16.30 | 1.259 | 62.9 | 1.006 | 0.09  | 0.550 | 0.697 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 41490           | 2680            | 1 | 15.44 | 16.30 | 1.219 | 62.9 | 1.006 | -0.14 | 0.565 | 0.693 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.40 | 16.30 | 1.230 | 62.9 | 1.006 | -0.14 | 0.567 | 0.702 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.40 | 16.30 | 1.230 | 62.9 | 1.006 | 0.15  | 0.593 | 0.734 |
|    | LTE Band 41C    | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 40620+<br>40422 | 2593+<br>2573.2 | 1 | 15.33 | 15.80 | 1.114 | 62.9 | 1.006 | 0.09  | 0.571 | 0.640 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Left Cheek   | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.40 | 16.30 | 1.230 | 62.9 | 1.006 | -0.19 | 0.340 | 0.421 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Left Tilted  | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.40 | 16.30 | 1.230 | 62.9 | 1.006 | -0.13 | 0.411 | 0.509 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 39750           | 2506            | 1 | 15.25 | 16.30 | 1.274 | 62.9 | 1.006 | 0.12  | 0.525 | 0.673 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 40185           | 2549.5          | 1 | 14.78 | 16.30 | 1.419 | 62.9 | 1.006 | 0.05  | 0.508 | 0.725 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 41055           | 2636.5          | 1 | 15.28 | 16.30 | 1.265 | 62.9 | 1.006 | 0.17  | 0.524 | 0.667 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 41490           | 2680            | 1 | 15.26 | 16.30 | 1.271 | 62.9 | 1.006 | -0.03 | 0.511 | 0.653 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 39750           | 2506            | 1 | 15.25 | 16.30 | 1.274 | 62.9 | 1.006 | 0.02  | 0.571 | 0.732 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 40185           | 2549.5          | 1 | 14.78 | 16.30 | 1.419 | 62.9 | 1.006 | -0.11 | 0.512 | 0.731 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 41055           | 2636.5          | 1 | 15.28 | 16.30 | 1.265 | 62.9 | 1.006 | 0.01  | 0.553 | 0.704 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 41490           | 2680            | 1 | 15.26 | 16.30 | 1.271 | 62.9 | 1.006 | 0.07  | 0.543 | 0.694 |
|    | LTE Band 41 PC2 | 20M | QPSK | 50  | 24 | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 18.33 | 19.30 | 1.250 | 42.9 | 1.009 | -0.1  | 0.719 | 0.907 |
|    | LTE Band 41     | 20M | QPSK | 100 | 0  | - | Right Cheek  | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.35 | 16.30 | 1.245 | 62.9 | 1.006 | 0.03  | 0.531 | 0.665 |
|    | LTE Band 41     | 20M | QPSK | 100 | 0  | - | Right Tilted | 0mm | Ant 3 | DSI 6       | 40620           | 2593            | 1 | 15.35 | 16.30 | 1.245 | 62.9 | 1.006 | -0.05 | 0.574 | 0.719 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 22.62 | 22.80 | 1.042 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 22.62 | 22.80 | 1.042 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 22.62 | 22.80 | 1.042 | 62.9 | 1.006 | -0.04 | 0.041 | 0.043 |
|    | LTE Band 41C    | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 40620+<br>40422 | 2593+<br>2573.2 | 1 | 22.17 | 22.30 | 1.030 | 62.9 | 1.006 | 0.04  | 0.039 | 0.040 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49 | - | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 22.62 | 22.80 | 1.042 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 41 PC2 | 20M | QPSK | 1   | 49 | - | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 25.63 | 25.80 | 1.040 | 42.9 | 1.009 | 0.13  | 0.056 | 0.059 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |                 |     |      |     |     |        |              |     |       |             |                 |                 |   |       |       |       |      |       |       |       |       |
|----|-----------------|-----|------|-----|-----|--------|--------------|-----|-------|-------------|-----------------|-----------------|---|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 21.65 | 21.80 | 1.035 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 21.65 | 21.80 | 1.035 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 21.65 | 21.80 | 1.035 | 62.9 | 1.006 | -0.04 | 0.040 | 0.042 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 40620           | 2593            | 1 | 21.65 | 21.80 | 1.035 | 62.9 | 1.006 | -     | n/a   | n/a   |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Right Cheek  | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 20.88 | 21.80 | 1.236 | 62.9 | 1.006 | -0.02 | 0.475 | 0.591 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Right Tilted | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 20.88 | 21.80 | 1.236 | 62.9 | 1.006 | 0.19  | 0.245 | 0.305 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Left Cheek   | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 20.88 | 21.80 | 1.236 | 62.9 | 1.006 | 0.1   | 0.136 | 0.169 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Left Tilted  | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 20.88 | 21.80 | 1.236 | 62.9 | 1.006 | 0.09  | 0.110 | 0.137 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Right Cheek  | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 20.82 | 21.80 | 1.253 | 62.9 | 1.006 | 0.17  | 0.473 | 0.596 |
|    | LTE Band 41C    | 20M | QPSK | 50  | 24  | -      | Right Cheek  | 0mm | Ant 4 | DSI 2       | 40620+<br>40422 | 2593+<br>2573.2 | 1 | 20.23 | 21.30 | 1.279 | 62.9 | 1.006 | 0.17  | 0.395 | 0.508 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Right Tilted | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 20.82 | 21.80 | 1.253 | 62.9 | 1.006 | 0.04  | 0.245 | 0.309 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Cheek   | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 20.82 | 21.80 | 1.253 | 62.9 | 1.006 | -0.05 | 0.138 | 0.174 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Tilted  | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 20.82 | 21.80 | 1.253 | 62.9 | 1.006 | 0.15  | 0.112 | 0.141 |
|    | LTE Band 41 PC2 | 20M | QPSK | 50  | 24  | -      | Right Cheek  | 0mm | Ant 4 | DSI 2       | 40620           | 2593            | 1 | 23.67 | 24.80 | 1.297 | 42.9 | 1.009 | -0.03 | 0.681 | 0.891 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Right Cheek  | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 19.97 | 20.80 | 1.211 | 62.9 | 1.006 | -0.12 | 0.368 | 0.448 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Right Tilted | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 19.97 | 20.80 | 1.211 | 62.9 | 1.006 | -0.15 | 0.195 | 0.237 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Left Cheek   | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 19.97 | 20.80 | 1.211 | 62.9 | 1.006 | 0.09  | 0.108 | 0.132 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Left Tilted  | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 19.97 | 20.80 | 1.211 | 62.9 | 1.006 | 0.04  | 0.088 | 0.107 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Right Cheek  | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 19.95 | 20.80 | 1.216 | 62.9 | 1.006 | -0.09 | 0.423 | 0.518 |
|    | LTE Band 41C    | 20M | QPSK | 50  | 24  | -      | Right Cheek  | 0mm | Ant 4 | DSI 6       | 40620+<br>40422 | 2593+<br>2573.2 | 1 | 19.22 | 20.30 | 1.282 | 62.9 | 1.006 | -0.05 | 0.346 | 0.447 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Right Tilted | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 19.95 | 20.80 | 1.216 | 62.9 | 1.006 | 0.11  | 0.195 | 0.239 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Cheek   | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 19.95 | 20.80 | 1.216 | 62.9 | 1.006 | 0.15  | 0.110 | 0.135 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Tilted  | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 19.95 | 20.80 | 1.216 | 62.9 | 1.006 | 0.12  | 0.089 | 0.109 |
|    | LTE Band 41 PC2 | 20M | QPSK | 50  | 24  | -      | Right Cheek  | 0mm | Ant 4 | DSI 6       | 40620           | 2593            | 1 | 22.53 | 23.80 | 1.340 | 42.9 | 1.009 | -0.17 | 0.513 | 0.693 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.16 | 16.70 | 1.132 | -    | -     | 0.18  | 0.600 | 0.679 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.16 | 16.70 | 1.132 | -    | -     | -0.05 | 0.885 | 1.002 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.16 | 16.70 | 1.132 | -    | -     | 0.1   | 0.403 | 0.456 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.16 | 16.70 | 1.132 | -    | -     | -0.18 | 0.492 | 0.557 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.15 | 16.70 | 1.135 | -    | -     | 0.04  | 0.608 | 0.690 |
| 17 | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.15 | 16.70 | 1.135 | -    | -     | 0.09  | 0.926 | 1.051 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.15 | 16.70 | 1.135 | -    | -     | 0     | 0.397 | 0.451 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.15 | 16.70 | 1.135 | -    | -     | 0.08  | 0.490 | 0.556 |
|    | FR1 n7          | 40M | QPSK | 216 | 0   | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 507000          | 2535            | 1 | 16.09 | 16.70 | 1.151 | -    | -     | -0.01 | 0.780 | 0.898 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 507000          | 2535            | 1 | 14.57 | 15.20 | 1.156 | -    | -     | -0.19 | 0.425 | 0.491 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 507000          | 2535            | 1 | 14.57 | 15.20 | 1.156 | -    | -     | 0.02  | 0.627 | 0.725 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 507000          | 2535            | 1 | 14.57 | 15.20 | 1.156 | -    | -     | 0.02  | 0.278 | 0.321 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 507000          | 2535            | 1 | 14.57 | 15.20 | 1.156 | -    | -     | 0.1   | 0.348 | 0.402 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 507000          | 2535            | 1 | 14.54 | 15.20 | 1.164 | -    | -     | 0.07  | 0.430 | 0.501 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 507000          | 2535            | 1 | 14.54 | 15.20 | 1.164 | -    | -     | -0.16 | 0.656 | 0.764 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 507000          | 2535            | 1 | 14.54 | 15.20 | 1.164 | -    | -     | -0.05 | 0.281 | 0.327 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 507000          | 2535            | 1 | 14.54 | 15.20 | 1.164 | -    | -     | -0.03 | 0.347 | 0.404 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 507000          | 2535            | 1 | 22.86 | 23.70 | 1.213 | -    | -     | 0.14  | 0.152 | 0.184 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 507000          | 2535            | 1 | 22.86 | 23.70 | 1.213 | -    | -     | -0.12 | 0.091 | 0.110 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 507000          | 2535            | 1 | 22.86 | 23.70 | 1.213 | -    | -     | -0.18 | 0.307 | 0.373 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 507000          | 2535            | 1 | 22.86 | 23.70 | 1.213 | -    | -     | 0.15  | 0.136 | 0.165 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 507000          | 2535            | 1 | 22.80 | 23.70 | 1.230 | -    | -     | 0.14  | 0.153 | 0.188 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 507000          | 2535            | 1 | 22.80 | 23.70 | 1.230 | -    | -     | 0.1   | 0.095 | 0.117 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 507000          | 2535            | 1 | 22.80 | 23.70 | 1.230 | -    | -     | 0     | 0.317 | 0.390 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 507000          | 2535            | 1 | 22.80 | 23.70 | 1.230 | -    | -     | 0     | 0.137 | 0.169 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 507000          | 2535            | 1 | 19.17 | 20.20 | 1.268 | -    | -     | -0.14 | 0.615 | 0.780 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 2       | 507000          | 2535            | 1 | 19.17 | 20.20 | 1.268 | -    | -     | -0.01 | 0.273 | 0.346 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 507000          | 2535            | 1 | 19.17 | 20.20 | 1.268 | -    | -     | -0.04 | 0.126 | 0.160 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 507000          | 2535            | 1 | 19.17 | 20.20 | 1.268 | -    | -     | 0.09  | 0.107 | 0.136 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 507000          | 2535            | 1 | 19.12 | 20.20 | 1.282 | -    | -     | 0.04  | 0.575 | 0.737 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 2       | 507000          | 2535            | 1 | 19.12 | 20.20 | 1.282 | -    | -     | 0.17  | 0.265 | 0.340 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 507000          | 2535            | 1 | 19.12 | 20.20 | 1.282 | -    | -     | 0.15  | 0.115 | 0.147 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 507000          | 2535            | 1 | 19.12 | 20.20 | 1.282 | -    | -     | -0.03 | 0.105 | 0.135 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |             |      |      |     |     |        |              |     |       |             |        |         |   |       |       |       |   |   |       |       |       |
|----|-------------|------|------|-----|-----|--------|--------------|-----|-------|-------------|--------|---------|---|-------|-------|-------|---|---|-------|-------|-------|
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 507000 | 2535    | 1 | 17.66 | 18.70 | 1.271 | - | - | 0.08  | 0.435 | 0.553 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 6       | 507000 | 2535    | 1 | 17.66 | 18.70 | 1.271 | - | - | 0.13  | 0.193 | 0.245 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 507000 | 2535    | 1 | 17.66 | 18.70 | 1.271 | - | - | 0.18  | 0.089 | 0.113 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 507000 | 2535    | 1 | 17.66 | 18.70 | 1.271 | - | - | 0.05  | 0.076 | 0.097 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 507000 | 2535    | 1 | 17.66 | 18.70 | 1.271 | - | - | -0.05 | 0.407 | 0.517 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 6       | 507000 | 2535    | 1 | 17.66 | 18.70 | 1.271 | - | - | -0.11 | 0.188 | 0.239 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 507000 | 2535    | 1 | 17.66 | 18.70 | 1.271 | - | - | 0.05  | 0.085 | 0.108 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 507000 | 2535    | 1 | 17.66 | 18.70 | 1.271 | - | - | 0.08  | 0.074 | 0.094 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.30 | 16.70 | 1.380 | - | - | -0.19 | 0.543 | 0.750 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.30 | 16.70 | 1.380 | - | - | 0.06  | 0.812 | 1.121 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.30 | 16.70 | 1.380 | - | - | -0.03 | 0.328 | 0.453 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.30 | 16.70 | 1.380 | - | - | 0.15  | 0.379 | 0.523 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.29 | 16.70 | 1.384 | - | - | -0.08 | 0.551 | 0.762 |
| 18 | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.29 | 16.70 | 1.384 | - | - | -0.02 | 0.851 | 1.177 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.29 | 16.70 | 1.384 | - | - | 0.18  | 0.331 | 0.458 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.29 | 16.70 | 1.384 | - | - | -0.06 | 0.384 | 0.531 |
|    | FR1 n38     | 40M  | QPSK | 100 | 0   | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 519000 | 2595    | 1 | 15.18 | 16.70 | 1.419 | - | - | -0.07 | 0.732 | 1.039 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.12 | 15.70 | 1.439 | - | - | -0.13 | 0.431 | 0.620 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.12 | 15.70 | 1.439 | - | - | 0.06  | 0.645 | 0.928 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.12 | 15.70 | 1.439 | - | - | 0     | 0.261 | 0.376 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.12 | 15.70 | 1.439 | - | - | 0.06  | 0.301 | 0.433 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.11 | 15.70 | 1.442 | - | - | 0.12  | 0.442 | 0.637 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.11 | 15.70 | 1.442 | - | - | -0.04 | 0.676 | 0.975 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.11 | 15.70 | 1.442 | - | - | 0.02  | 0.267 | 0.385 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.11 | 15.70 | 1.442 | - | - | 0.03  | 0.305 | 0.440 |
|    | FR1 n38     | 40M  | QPSK | 100 | 0   | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 14.07 | 15.70 | 1.455 | - | - | 0.03  | 0.614 | 0.894 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.62 | 25.20 | 1.439 | - | - | 0.17  | 0.139 | 0.200 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.62 | 25.20 | 1.439 | - | - | 0.12  | 0.091 | 0.131 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.62 | 25.20 | 1.439 | - | - | -0.13 | 0.312 | 0.449 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.62 | 25.20 | 1.439 | - | - | -0.17 | 0.122 | 0.176 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.51 | 25.20 | 1.476 | - | - | -0.18 | 0.135 | 0.199 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.51 | 25.20 | 1.476 | - | - | 0.19  | 0.087 | 0.128 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.51 | 25.20 | 1.476 | - | - | -0.11 | 0.303 | 0.447 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.51 | 25.20 | 1.476 | - | - | 0.04  | 0.118 | 0.175 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.42 | 20.20 | 1.507 | - | - | 0.01  | 0.611 | 0.921 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.42 | 20.20 | 1.507 | - | - | -0.07 | 0.225 | 0.339 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.42 | 20.20 | 1.507 | - | - | -0.16 | 0.105 | 0.158 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.42 | 20.20 | 1.507 | - | - | 0.04  | 0.095 | 0.143 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.38 | 20.20 | 1.521 | - | - | 0.06  | 0.578 | 0.879 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.38 | 20.20 | 1.521 | - | - | -0.14 | 0.220 | 0.335 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.38 | 20.20 | 1.521 | - | - | -0.16 | 0.104 | 0.158 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.38 | 20.20 | 1.521 | - | - | -0.07 | 0.093 | 0.141 |
|    | FR1 n38     | 40M  | QPSK | 100 | 0   | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 18.36 | 20.20 | 1.528 | - | - | 0.15  | 0.512 | 0.782 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 16.92 | 18.70 | 1.507 | - | - | 0.08  | 0.433 | 0.652 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 16.92 | 18.70 | 1.507 | - | - | 0.08  | 0.159 | 0.240 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 16.92 | 18.70 | 1.507 | - | - | -0.04 | 0.077 | 0.116 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 16.92 | 18.70 | 1.507 | - | - | -0.16 | 0.068 | 0.102 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 16.90 | 18.70 | 1.514 | - | - | 0.15  | 0.409 | 0.619 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 16.90 | 18.70 | 1.514 | - | - | -0.11 | 0.156 | 0.236 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 16.90 | 18.70 | 1.514 | - | - | -0.13 | 0.074 | 0.112 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 16.90 | 18.70 | 1.514 | - | - | 0.07  | 0.066 | 0.100 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.92 | 16.20 | 1.343 | - | - | 0.18  | 0.758 | 1.018 |
| 19 | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.92 | 16.20 | 1.343 | - | - | -0.07 | 0.854 | 1.147 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.92 | 16.20 | 1.343 | - | - | 0     | 0.481 | 0.646 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.92 | 16.20 | 1.343 | - | - | -0.08 | 0.511 | 0.686 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.87 | 16.20 | 1.358 | - | - | -0.05 | 0.735 | 0.998 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.87 | 16.20 | 1.358 | - | - | 0.01  | 0.834 | 1.133 |



# FCC SAR Test Report

Report No. : FA3O3018

|             |      |      |     |     |        |              |     |       |             |        |         |   |       |       |       |   |   |       |       |       |
|-------------|------|------|-----|-----|--------|--------------|-----|-------|-------------|--------|---------|---|-------|-------|-------|---|---|-------|-------|-------|
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.87 | 16.20 | 1.358 | - | - | 0.05  | 0.457 | 0.621 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.87 | 16.20 | 1.358 | - | - | 0.03  | 0.485 | 0.659 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.76 | 16.20 | 1.393 | - | - | -0.17 | 0.685 | 0.954 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.76 | 16.20 | 1.393 | - | - | -0.1  | 0.753 | 1.049 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.76 | 16.20 | 1.393 | - | - | 0.03  | 0.425 | 0.592 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.76 | 16.20 | 1.393 | - | - | 0.12  | 0.461 | 0.642 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 14.10 | 15.20 | 1.288 | - | - | 0.05  | 0.544 | 0.701 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 14.10 | 15.20 | 1.288 | - | - | -0.1  | 0.678 | 0.873 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 14.10 | 15.20 | 1.288 | - | - | -0.12 | 0.330 | 0.425 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 14.10 | 15.20 | 1.288 | - | - | -0.09 | 0.354 | 0.456 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 13.96 | 15.20 | 1.330 | - | - | -0.13 | 0.551 | 0.733 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 13.96 | 15.20 | 1.330 | - | - | -0.04 | 0.697 | 0.927 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 13.96 | 15.20 | 1.330 | - | - | 0.16  | 0.337 | 0.448 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 13.96 | 15.20 | 1.330 | - | - | 0.04  | 0.358 | 0.476 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 13.76 | 15.20 | 1.393 | - | - | -0.02 | 0.499 | 0.695 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 13.76 | 15.20 | 1.393 | - | - | 0.03  | 0.647 | 0.901 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.45 | 26.20 | 1.496 | - | - | -0.03 | 0.211 | 0.316 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.45 | 26.20 | 1.496 | - | - | 0.14  | 0.169 | 0.253 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.45 | 26.20 | 1.496 | - | - | -0.12 | 0.371 | 0.555 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.45 | 26.20 | 1.496 | - | - | 0.12  | 0.196 | 0.293 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.42 | 26.20 | 1.507 | - | - | -0.04 | 0.194 | 0.292 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.42 | 26.20 | 1.507 | - | - | -0.17 | 0.153 | 0.231 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.42 | 26.20 | 1.507 | - | - | 0.07  | 0.367 | 0.553 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.42 | 26.20 | 1.507 | - | - | 0.18  | 0.176 | 0.265 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | -0.15 | 0.535 | 0.823 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | -0.1  | 0.264 | 0.406 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | -0.09 | 0.118 | 0.182 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | 0.07  | 0.110 | 0.169 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.28 | 20.20 | 1.556 | - | - | -0.07 | 0.591 | 0.920 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.28 | 20.20 | 1.556 | - | - | 0.04  | 0.267 | 0.415 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.28 | 20.20 | 1.556 | - | - | 0     | 0.128 | 0.199 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.28 | 20.20 | 1.556 | - | - | 0.17  | 0.112 | 0.174 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 18.26 | 20.20 | 1.563 | - | - | 0.12  | 0.457 | 0.714 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.47 | 19.20 | 1.489 | - | - | -0.12 | 0.425 | 0.633 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.47 | 19.20 | 1.489 | - | - | 0.01  | 0.210 | 0.313 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.47 | 19.20 | 1.489 | - | - | 0.17  | 0.094 | 0.140 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.47 | 19.20 | 1.489 | - | - | 0.16  | 0.087 | 0.130 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.40 | 19.20 | 1.514 | - | - | -0.08 | 0.469 | 0.710 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.40 | 19.20 | 1.514 | - | - | 0.08  | 0.214 | 0.324 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.40 | 19.20 | 1.514 | - | - | 0.11  | 0.102 | 0.154 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.40 | 19.20 | 1.514 | - | - | 0.11  | 0.089 | 0.135 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 518598 | 2592.99 | 1 | 17.28 | 19.20 | 1.556 | - | - | 0.03  | 0.412 | 0.641 |



&lt;ENDC&gt;

| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Antenna | Power State | Ch.    | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|--------|---------------|----------|---------|-------------|--------|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 750MHz   |             |          |            |         |           |        |               |          |         |             |        |             |        |                     |                     |                        |              |                           |                  |                        |                        |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 23095  | 707.5       | 1      | 20.98               | 21.20               | 1.052                  | -            | -                         | -0.06            | 0.140                  | 0.147                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 23095  | 707.5       | 1      | 20.98               | 21.20               | 1.052                  | -            | -                         | 0.1              | 0.026                  | 0.027                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 23095  | 707.5       | 1      | 20.98               | 21.20               | 1.052                  | -            | -                         | -0.09            | 0.259                  | 0.272                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Left Tilted   | 0mm      | Ant 1   | DSI 2       | 23095  | 707.5       | 1      | 20.98               | 21.20               | 1.052                  | -            | -                         | -0.17            | 0.034                  | 0.036                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 23095  | 707.5       | 1      | 20.96               | 21.20               | 1.057                  | -            | -                         | 0.1              | 0.121                  | 0.128                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 23095  | 707.5       | 1      | 20.96               | 21.20               | 1.057                  | -            | -                         | -0.02            | 0.023                  | 0.024                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 23095  | 707.5       | 1      | 20.96               | 21.20               | 1.057                  | -            | -                         | 0.17             | 0.235                  | 0.248                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Left Tilted   | 0mm      | Ant 1   | DSI 2       | 23095  | 707.5       | 1      | 20.96               | 21.20               | 1.057                  | -            | -                         | 0.13             | 0.030                  | 0.032                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Right Cheek   | 0mm      | Ant 1   | DSI 6       | 23095  | 707.5       | 1      | 19.81               | 20.20               | 1.094                  | -            | -                         | -0.14            | 0.111                  | 0.121                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Right Tilted  | 0mm      | Ant 1   | DSI 6       | 23095  | 707.5       | 1      | 19.81               | 20.20               | 1.094                  | -            | -                         | 0.05             | 0.021                  | 0.023                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Left Cheek    | 0mm      | Ant 1   | DSI 6       | 23095  | 707.5       | 1      | 19.81               | 20.20               | 1.094                  | -            | -                         | 0.08             | 0.206                  | 0.225                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Left Tilted   | 0mm      | Ant 1   | DSI 6       | 23095  | 707.5       | 1      | 19.81               | 20.20               | 1.094                  | -            | -                         | 0.13             | 0.027                  | 0.030                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Right Cheek   | 0mm      | Ant 1   | DSI 6       | 23095  | 707.5       | 1      | 19.79               | 20.20               | 1.099                  | -            | -                         | -0.12            | 0.096                  | 0.106                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Right Tilted  | 0mm      | Ant 1   | DSI 6       | 23095  | 707.5       | 1      | 19.79               | 20.20               | 1.099                  | -            | -                         | -0.1             | 0.018                  | 0.020                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Left Cheek    | 0mm      | Ant 1   | DSI 6       | 23095  | 707.5       | 1      | 19.79               | 20.20               | 1.099                  | -            | -                         | -0.12            | 0.187                  | 0.206                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Left Tilted   | 0mm      | Ant 1   | DSI 6       | 23095  | 707.5       | 1      | 19.79               | 20.20               | 1.099                  | -            | -                         | 0.06             | 0.024                  | 0.026                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Right Cheek   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095  | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.18            | 0.059                  | 0.079                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Right Tilted  | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095  | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Left Cheek    | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095  | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.02            | 0.085                  | 0.114                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Left Tilted   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095  | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.07            | 0.050                  | 0.067                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Right Cheek   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095  | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | 0.03             | 0.045                  | 0.062                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Right Tilted  | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095  | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | -                | n/a                    | n/a                    |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Left Cheek    | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095  | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | 0.16             | 0.067                  | 0.093                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Left Tilted   | 0mm      | Ant 0   | DSI 2/DSI 6 | 23095  | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | -                | n/a                    | n/a                    |
| 835MHz   |             |          |            |         |           |        |               |          |         |             |        |             |        |                     |                     |                        |              |                           |                  |                        |                        |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 20525  | 836.5       | 1      | 16.72               | 17.00               | 1.067                  | -            | -                         | 0.09             | 0.140                  | 0.149                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 20525  | 836.5       | 1      | 16.72               | 17.00               | 1.067                  | -            | -                         | -0.16            | 0.026                  | 0.028                  |
| 20       | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 20525  | 836.5       | 1      | 16.72               | 17.00               | 1.067                  | -            | -                         | 0.13             | 0.299                  | 0.319                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Left Tilted   | 0mm      | Ant 1   | DSI 2       | 20525  | 836.5       | 1      | 16.72               | 17.00               | 1.067                  | -            | -                         | -0.06            | 0.034                  | 0.036                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 20525  | 836.5       | 1      | 16.66               | 17.00               | 1.081                  | -            | -                         | -0.09            | 0.121                  | 0.131                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 20525  | 836.5       | 1      | 16.66               | 17.00               | 1.081                  | -            | -                         | -0.11            | 0.023                  | 0.025                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Left Cheek    | 0mm      | Ant 1   | DSI 2       | 20525  | 836.5       | 1      | 16.66               | 17.00               | 1.081                  | -            | -                         | 0.01             | 0.235                  | 0.254                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Left Tilted   | 0mm      | Ant 1   | DSI 2       | 20525  | 836.5       | 1      | 16.66               | 17.00               | 1.081                  | -            | -                         | -0.03            | 0.030                  | 0.032                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Right Cheek   | 0mm      | Ant 1   | DSI 6       | 20525  | 836.5       | 1      | 15.75               | 16.00               | 1.059                  | -            | -                         | 0.16             | 0.097                  | 0.103                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Right Tilted  | 0mm      | Ant 1   | DSI 6       | 20525  | 836.5       | 1      | 15.75               | 16.00               | 1.059                  | -            | -                         | -0.05            | 0.018                  | 0.019                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Left Cheek    | 0mm      | Ant 1   | DSI 6       | 20525  | 836.5       | 1      | 15.75               | 16.00               | 1.059                  | -            | -                         | 0.17             | 0.204                  | 0.216                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Left Tilted   | 0mm      | Ant 1   | DSI 6       | 20525  | 836.5       | 1      | 15.75               | 16.00               | 1.059                  | -            | -                         | -0.05            | 0.021                  | 0.022                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Right Cheek   | 0mm      | Ant 1   | DSI 6       | 20525  | 836.5       | 1      | 15.67               | 16.00               | 1.079                  | -            | -                         | -0.13            | 0.097                  | 0.105                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Right Tilted  | 0mm      | Ant 1   | DSI 6       | 20525  | 836.5       | 1      | 15.67               | 16.00               | 1.079                  | -            | -                         | 0.07             | 0.019                  | 0.020                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Left Cheek    | 0mm      | Ant 1   | DSI 6       | 20525  | 836.5       | 1      | 15.67               | 16.00               | 1.079                  | -            | -                         | 0.15             | 0.201                  | 0.217                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Left Tilted   | 0mm      | Ant 1   | DSI 6       | 20525  | 836.5       | 1      | 15.67               | 16.00               | 1.079                  | -            | -                         | -0.17            | 0.026                  | 0.028                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Right Cheek   | 0mm      | Ant 0   | DSI 2/DSI 6 | 20525  | 836.5       | 1      | 23.26               | 24.50               | 1.330                  | -            | -                         | -0.15            | 0.150                  | 0.200                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Right Tilted  | 0mm      | Ant 0   | DSI 2/DSI 6 | 20525  | 836.5       | 1      | 23.26               | 24.50               | 1.330                  | -            | -                         | 0.14             | 0.091                  | 0.121                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Left Cheek    | 0mm      | Ant 0   | DSI 2/DSI 6 | 20525  | 836.5       | 1      | 23.26               | 24.50               | 1.330                  | -            | -                         | 0.09             | 0.193                  | 0.257                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Left Tilted   | 0mm      | Ant 0   | DSI 2/DSI 6 | 20525  | 836.5       | 1      | 23.26               | 24.50               | 1.330                  | -            | -                         | 0.15             | 0.105                  | 0.140                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Right Cheek   | 0mm      | Ant 0   | DSI 2/DSI 6 | 20525  | 836.5       | 1      | 22.47               | 23.50               | 1.268                  | -            | -                         | 0.13             | 0.117                  | 0.148                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Right Tilted  | 0mm      | Ant 0   | DSI 2/DSI 6 | 20525  | 836.5       | 1      | 22.47               | 23.50               | 1.268                  | -            | -                         | -0.07            | 0.070                  | 0.089                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Left Cheek    | 0mm      | Ant 0   | DSI 2/DSI 6 | 20525  | 836.5       | 1      | 22.47               | 23.50               | 1.268                  | -            | -                         | -0.06            | 0.151                  | 0.191                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Left Tilted   | 0mm      | Ant 0   | DSI 2/DSI 6 | 20525  | 836.5       | 1      | 22.47               | 23.50               | 1.268                  | -            | -                         | -0.13            | 0.082                  | 0.104                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Right Cheek   | 0mm      | Ant 1   | DSI 2       | 167300 | 836.5       | 1      | 16.85               | 18.20               | 1.365                  | -            | -                         | 0.15             | 0.170                  | 0.232                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Right Tilted  | 0mm      | Ant 1   | DSI 2       | 167300 | 836.5       | 1      | 16.85               | 18.20               | 1.365                  | -            | -                         | 0.07             | 0.032                  | 0.044                  |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |    |    |        |              |     |       |             |        |       |   |       |       |       |   |   |       |       |       |
|---------|-------------|-----|------|----|----|--------|--------------|-----|-------|-------------|--------|-------|---|-------|-------|-------|---|---|-------|-------|-------|
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Left Cheek   | 0mm | Ant 1 | DSI 2       | 167300 | 836.5 | 1 | 16.85 | 18.20 | 1.365 | - | - | -0.09 | 0.308 | 0.420 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Left Tilted  | 0mm | Ant 1 | DSI 2       | 167300 | 836.5 | 1 | 16.85 | 18.20 | 1.365 | - | - | -0.14 | 0.046 | 0.063 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Right Cheek  | 0mm | Ant 1 | DSI 2       | 167300 | 836.5 | 1 | 16.79 | 18.20 | 1.384 | - | - | 0.13  | 0.170 | 0.235 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Right Tilted | 0mm | Ant 1 | DSI 2       | 167300 | 836.5 | 1 | 16.79 | 18.20 | 1.384 | - | - | -0.03 | 0.033 | 0.046 |
| 21      | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Left Cheek   | 0mm | Ant 1 | DSI 2       | 167300 | 836.5 | 1 | 16.79 | 18.20 | 1.384 | - | - | -0.1  | 0.339 | 0.469 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Left Tilted  | 0mm | Ant 1 | DSI 2       | 167300 | 836.5 | 1 | 16.79 | 18.20 | 1.384 | - | - | 0.02  | 0.049 | 0.068 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Right Cheek  | 0mm | Ant 1 | DSI 6       | 167300 | 836.5 | 1 | 15.30 | 16.70 | 1.380 | - | - | -0.04 | 0.121 | 0.167 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Right Tilted | 0mm | Ant 1 | DSI 6       | 167300 | 836.5 | 1 | 15.30 | 16.70 | 1.380 | - | - | -0.04 | 0.023 | 0.032 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Left Cheek   | 0mm | Ant 1 | DSI 6       | 167300 | 836.5 | 1 | 15.30 | 16.70 | 1.380 | - | - | -0.09 | 0.275 | 0.380 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Left Tilted  | 0mm | Ant 1 | DSI 6       | 167300 | 836.5 | 1 | 15.30 | 16.70 | 1.380 | - | - | 0.02  | 0.033 | 0.046 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Right Cheek  | 0mm | Ant 1 | DSI 6       | 167300 | 836.5 | 1 | 15.28 | 16.70 | 1.387 | - | - | 0.18  | 0.121 | 0.168 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Right Tilted | 0mm | Ant 1 | DSI 6       | 167300 | 836.5 | 1 | 15.28 | 16.70 | 1.387 | - | - | -0.12 | 0.023 | 0.032 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Left Cheek   | 0mm | Ant 1 | DSI 6       | 167300 | 836.5 | 1 | 15.28 | 16.70 | 1.387 | - | - | 0.04  | 0.290 | 0.402 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Left Tilted  | 0mm | Ant 1 | DSI 6       | 167300 | 836.5 | 1 | 15.28 | 16.70 | 1.387 | - | - | 0.09  | 0.035 | 0.049 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 167300 | 836.5 | 1 | 23.31 | 24.70 | 1.377 | - | - | 0.18  | 0.144 | 0.198 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 167300 | 836.5 | 1 | 23.31 | 24.70 | 1.377 | - | - | -0.02 | 0.080 | 0.110 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 167300 | 836.5 | 1 | 23.31 | 24.70 | 1.377 | - | - | -0.17 | 0.202 | 0.278 |
|         | FR1 n5      | 20M | QPSK | 1  | 53 | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 167300 | 836.5 | 1 | 23.31 | 24.70 | 1.377 | - | - | 0.07  | 0.105 | 0.145 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 167300 | 836.5 | 1 | 23.29 | 24.70 | 1.384 | - | - | -0.06 | 0.149 | 0.206 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 167300 | 836.5 | 1 | 23.29 | 24.70 | 1.384 | - | - | 0.1   | 0.082 | 0.113 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 167300 | 836.5 | 1 | 23.29 | 24.70 | 1.384 | - | - | -0.1  | 0.207 | 0.286 |
|         | FR1 n5      | 20M | QPSK | 50 | 28 | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 167300 | 836.5 | 1 | 23.29 | 24.70 | 1.384 | - | - | -0.09 | 0.107 | 0.148 |
| 1750MHz |             |     |      |    |    |        |              |     |       |             |        |       |   |       |       |       |   |   |       |       |       |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Cheek  | 0mm | Ant 3 | DSI 2       | 132322 | 1745  | 1 | 15.73 | 16.30 | 1.140 | - | - | -0.12 | 0.365 | 0.416 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Tilted | 0mm | Ant 3 | DSI 2       | 132322 | 1745  | 1 | 15.73 | 16.30 | 1.140 | - | - | -0.14 | 0.344 | 0.392 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Left Cheek   | 0mm | Ant 3 | DSI 2       | 132322 | 1745  | 1 | 15.73 | 16.30 | 1.140 | - | - | 0.11  | 0.208 | 0.237 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Left Tilted  | 0mm | Ant 3 | DSI 2       | 132322 | 1745  | 1 | 15.73 | 16.30 | 1.140 | - | - | 0.17  | 0.239 | 0.273 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Right Cheek  | 0mm | Ant 3 | DSI 2       | 132322 | 1745  | 1 | 15.71 | 16.30 | 1.146 | - | - | -0.14 | 0.354 | 0.406 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Right Tilted | 0mm | Ant 3 | DSI 2       | 132322 | 1745  | 1 | 15.71 | 16.30 | 1.146 | - | - | 0.05  | 0.339 | 0.388 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Left Cheek   | 0mm | Ant 3 | DSI 2       | 132322 | 1745  | 1 | 15.71 | 16.30 | 1.146 | - | - | -0.06 | 0.205 | 0.235 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Left Tilted  | 0mm | Ant 3 | DSI 2       | 132322 | 1745  | 1 | 15.71 | 16.30 | 1.146 | - | - | 0.06  | 0.238 | 0.273 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Cheek  | 0mm | Ant 3 | DSI 6       | 132322 | 1745  | 1 | 14.23 | 14.80 | 1.140 | - | - | -0.08 | 0.258 | 0.294 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Tilted | 0mm | Ant 3 | DSI 6       | 132322 | 1745  | 1 | 14.23 | 14.80 | 1.140 | - | - | 0.15  | 0.244 | 0.278 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Left Cheek   | 0mm | Ant 3 | DSI 6       | 132322 | 1745  | 1 | 14.23 | 14.80 | 1.140 | - | - | 0.06  | 0.147 | 0.168 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Left Tilted  | 0mm | Ant 3 | DSI 6       | 132322 | 1745  | 1 | 14.23 | 14.80 | 1.140 | - | - | -0.01 | 0.169 | 0.193 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Right Cheek  | 0mm | Ant 3 | DSI 6       | 132322 | 1745  | 1 | 14.21 | 14.80 | 1.146 | - | - | -0.18 | 0.251 | 0.288 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Right Tilted | 0mm | Ant 3 | DSI 6       | 132322 | 1745  | 1 | 14.21 | 14.80 | 1.146 | - | - | -0.06 | 0.240 | 0.275 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Left Cheek   | 0mm | Ant 3 | DSI 6       | 132322 | 1745  | 1 | 14.21 | 14.80 | 1.146 | - | - | -0.08 | 0.145 | 0.166 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Left Tilted  | 0mm | Ant 3 | DSI 6       | 132322 | 1745  | 1 | 14.21 | 14.80 | 1.146 | - | - | -0.07 | 0.168 | 0.192 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745  | 1 | 23.29 | 24.30 | 1.262 | - | - | 0.07  | 0.085 | 0.107 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745  | 1 | 23.29 | 24.30 | 1.262 | - | - | -     | n/a   | n/a   |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745  | 1 | 23.29 | 24.30 | 1.262 | - | - | 0.14  | 0.056 | 0.071 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745  | 1 | 23.29 | 24.30 | 1.262 | - | - | -     | n/a   | n/a   |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745  | 1 | 22.29 | 23.30 | 1.262 | - | - | 0.04  | 0.070 | 0.088 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745  | 1 | 22.29 | 23.30 | 1.262 | - | - | -     | n/a   | n/a   |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745  | 1 | 22.29 | 23.30 | 1.262 | - | - | 0.01  | 0.044 | 0.056 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 132322 | 1745  | 1 | 22.29 | 23.30 | 1.262 | - | - | -     | n/a   | n/a   |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Cheek  | 0mm | Ant 4 | DSI 2       | 132322 | 1745  | 1 | 14.39 | 14.80 | 1.099 | - | - | 0.01  | 0.250 | 0.275 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Tilted | 0mm | Ant 4 | DSI 2       | 132322 | 1745  | 1 | 14.39 | 14.80 | 1.099 | - | - | 0     | 0.101 | 0.111 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Left Cheek   | 0mm | Ant 4 | DSI 2       | 132322 | 1745  | 1 | 14.39 | 14.80 | 1.099 | - | - | 0.18  | 0.070 | 0.077 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Left Tilted  | 0mm | Ant 4 | DSI 2       | 132322 | 1745  | 1 | 14.39 | 14.80 | 1.099 | - | - | -0.11 | 0.036 | 0.040 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Right Cheek  | 0mm | Ant 4 | DSI 2       | 132322 | 1745  | 1 | 14.33 | 14.80 | 1.114 | - | - | -0.14 | 0.252 | 0.281 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Right Tilted | 0mm | Ant 4 | DSI 2       | 132322 | 1745  | 1 | 14.33 | 14.80 | 1.114 | - | - | -0.04 | 0.105 | 0.117 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Left Cheek   | 0mm | Ant 4 | DSI 2       | 132322 | 1745  | 1 | 14.33 | 14.80 | 1.114 | - | - | -0.02 | 0.070 | 0.078 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -      | Left Tilted  | 0mm | Ant 4 | DSI 2       | 132322 | 1745  | 1 | 14.33 | 14.80 | 1.114 | - | - | -0.09 | 0.037 | 0.041 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -      | Right Cheek  | 0mm | Ant 4 | DSI 6       | 132322 | 1745  | 1 | 13.42 | 13.80 | 1.091 | - | - | -0.03 | 0.199 | 0.217 |



# FCC SAR Test Report

Report No. : FA3O3018

|             |     |      |     |    |        |              |     |       |             |        |      |   |       |       |       |   |   |       |       |       |
|-------------|-----|------|-----|----|--------|--------------|-----|-------|-------------|--------|------|---|-------|-------|-------|---|---|-------|-------|-------|
| LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Right Tilted | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 13.42 | 13.80 | 1.091 | - | - | -0.18 | 0.080 | 0.088 |
| LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Left Cheek   | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 13.42 | 13.80 | 1.091 | - | - | -0.12 | 0.056 | 0.061 |
| LTE Band 66 | 20M | QPSK | 1   | 49 | -      | Left Tilted  | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 13.42 | 13.80 | 1.091 | - | - | -0.09 | 0.029 | 0.031 |
| LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Right Cheek  | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 13.37 | 13.80 | 1.104 | - | - | 0.08  | 0.200 | 0.221 |
| LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Right Tilted | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 13.37 | 13.80 | 1.104 | - | - | -0.02 | 0.083 | 0.092 |
| LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Left Cheek   | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 13.37 | 13.80 | 1.104 | - | - | -0.16 | 0.056 | 0.061 |
| LTE Band 66 | 20M | QPSK | 50  | 24 | -      | Left Tilted  | 0mm | Ant 4 | DSI 6       | 132322 | 1745 | 1 | 13.37 | 13.80 | 1.104 | - | - | -0.13 | 0.029 | 0.032 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 14.69 | 16.20 | 1.416 | - | - | -0.18 | 0.301 | 0.426 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 14.69 | 16.20 | 1.416 | - | - | 0.13  | 0.288 | 0.408 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 14.69 | 16.20 | 1.416 | - | - | -0.07 | 0.168 | 0.238 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 14.69 | 16.20 | 1.416 | - | - | -0.07 | 0.198 | 0.280 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 14.61 | 16.20 | 1.442 | - | - | -0.01 | 0.383 | 0.552 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 14.61 | 16.20 | 1.442 | - | - | -0.18 | 0.363 | 0.523 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 14.61 | 16.20 | 1.442 | - | - | -0.08 | 0.199 | 0.287 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 349000 | 1745 | 1 | 14.61 | 16.20 | 1.442 | - | - | -0.14 | 0.230 | 0.332 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 13.67 | 15.20 | 1.422 | - | - | -0.01 | 0.239 | 0.340 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 13.67 | 15.20 | 1.422 | - | - | 0.09  | 0.229 | 0.326 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 13.67 | 15.20 | 1.422 | - | - | -0.06 | 0.133 | 0.189 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 13.67 | 15.20 | 1.422 | - | - | 0.14  | 0.157 | 0.223 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 13.62 | 15.20 | 1.439 | - | - | -0.02 | 0.304 | 0.437 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 13.62 | 15.20 | 1.439 | - | - | 0.05  | 0.289 | 0.416 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 13.62 | 15.20 | 1.439 | - | - | 0.14  | 0.158 | 0.227 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 349000 | 1745 | 1 | 13.62 | 15.20 | 1.439 | - | - | 0.02  | 0.183 | 0.263 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.86 | 23.70 | 1.213 | - | - | 0.11  | 0.073 | 0.089 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.86 | 23.70 | 1.213 | - | - | -     | n/a   | n/a   |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.86 | 23.70 | 1.213 | - | - | -     | n/a   | n/a   |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.86 | 23.70 | 1.213 | - | - | -     | n/a   | n/a   |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.85 | 23.70 | 1.216 | - | - | 0.12  | 0.084 | 0.102 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.85 | 23.70 | 1.216 | - | - | -     | n/a   | n/a   |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.85 | 23.70 | 1.216 | - | - | -     | n/a   | n/a   |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 349000 | 1745 | 1 | 22.85 | 23.70 | 1.216 | - | - | -     | n/a   | n/a   |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 12.85 | 14.20 | 1.365 | - | - | -0.06 | 0.211 | 0.288 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 12.85 | 14.20 | 1.365 | - | - | 0.08  | 0.084 | 0.115 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 12.85 | 14.20 | 1.365 | - | - | 0.11  | 0.049 | 0.067 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 12.85 | 14.20 | 1.365 | - | - | -0.09 | 0.029 | 0.040 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 12.81 | 14.20 | 1.377 | - | - | -0.18 | 0.258 | 0.355 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 12.81 | 14.20 | 1.377 | - | - | 0.07  | 0.096 | 0.132 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 12.81 | 14.20 | 1.377 | - | - | 0.09  | 0.055 | 0.076 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 349000 | 1745 | 1 | 12.81 | 14.20 | 1.377 | - | - | 0.02  | 0.032 | 0.044 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 11.42 | 12.70 | 1.343 | - | - | 0.1   | 0.155 | 0.208 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 11.42 | 12.70 | 1.343 | - | - | 0.01  | 0.059 | 0.079 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 11.42 | 12.70 | 1.343 | - | - | 0.03  | 0.035 | 0.047 |
| FR1 n66     | 40M | QPSK | 1   | 1  | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 11.42 | 12.70 | 1.343 | - | - | 0.09  | 0.021 | 0.028 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 11.36 | 12.70 | 1.361 | - | - | 0.17  | 0.183 | 0.249 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 11.36 | 12.70 | 1.361 | - | - | -0.01 | 0.068 | 0.093 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 11.36 | 12.70 | 1.361 | - | - | -0.02 | 0.039 | 0.053 |
| FR1 n66     | 40M | QPSK | 108 | 54 | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 349000 | 1745 | 1 | 11.36 | 12.70 | 1.361 | - | - | -0.1  | 0.023 | 0.031 |
| 1900MHz     |     |      |     |    |        |              |     |       |             |        |      |   |       |       |       |   |   |       |       |       |
| LTE Band 2  | 20M | QPSK | 1   | 49 |        | Right Cheek  | 0mm | Ant 3 | DSI 2       | 18900  | 1880 | 1 | 14.29 | 14.80 | 1.125 | - | - | 0.13  | 0.392 | 0.441 |
| LTE Band 2  | 20M | QPSK | 1   | 49 |        | Right Tilted | 0mm | Ant 3 | DSI 2       | 18900  | 1880 | 1 | 14.29 | 14.80 | 1.125 | - | - | 0.04  | 0.391 | 0.440 |
| LTE Band 2  | 20M | QPSK | 1   | 49 |        | Left Cheek   | 0mm | Ant 3 | DSI 2       | 18900  | 1880 | 1 | 14.29 | 14.80 | 1.125 | - | - | -0.18 | 0.262 | 0.295 |
| LTE Band 2  | 20M | QPSK | 1   | 49 |        | Left Tilted  | 0mm | Ant 3 | DSI 2       | 18900  | 1880 | 1 | 14.29 | 14.80 | 1.125 | - | - | -0.04 | 0.284 | 0.319 |
| LTE Band 2  | 20M | QPSK | 50  | 24 |        | Right Cheek  | 0mm | Ant 3 | DSI 2       | 18900  | 1880 | 1 | 14.26 | 14.80 | 1.132 | - | - | -0.04 | 0.388 | 0.439 |
| LTE Band 2  | 20M | QPSK | 50  | 24 |        | Right Tilted | 0mm | Ant 3 | DSI 2       | 18900  | 1880 | 1 | 14.26 | 14.80 | 1.132 | - | - | 0.17  | 0.382 | 0.433 |
| LTE Band 2  | 20M | QPSK | 50  | 24 |        | Left Cheek   | 0mm | Ant 3 | DSI 2       | 18900  | 1880 | 1 | 14.26 | 14.80 | 1.132 | - | - | -0.08 | 0.258 | 0.292 |
| LTE Band 2  | 20M | QPSK | 50  | 24 |        | Left Tilted  | 0mm | Ant 3 | DSI 2       | 18900  | 1880 | 1 | 14.26 | 14.80 | 1.132 | - | - | -0.04 | 0.282 | 0.319 |



# FCC SAR Test Report

Report No. : FA3O3018

|            |     |      |    |    |  |              |     |       |             |       |      |   |       |       |       |   |   |       |       |       |
|------------|-----|------|----|----|--|--------------|-----|-------|-------------|-------|------|---|-------|-------|-------|---|---|-------|-------|-------|
| LTE Band 2 | 20M | QPSK | 1  | 49 |  | Right Cheek  | 0mm | Ant 3 | DSI 6       | 18900 | 1880 | 1 | 13.24 | 13.80 | 1.138 | - | - | -0.16 | 0.311 | 0.354 |
| LTE Band 2 | 20M | QPSK | 1  | 49 |  | Right Tilted | 0mm | Ant 3 | DSI 6       | 18900 | 1880 | 1 | 13.24 | 13.80 | 1.138 | - | - | 0.17  | 0.311 | 0.354 |
| LTE Band 2 | 20M | QPSK | 1  | 49 |  | Left Cheek   | 0mm | Ant 3 | DSI 6       | 18900 | 1880 | 1 | 13.24 | 13.80 | 1.138 | - | - | -0.02 | 0.208 | 0.237 |
| LTE Band 2 | 20M | QPSK | 1  | 49 |  | Left Tilted  | 0mm | Ant 3 | DSI 6       | 18900 | 1880 | 1 | 13.24 | 13.80 | 1.138 | - | - | 0.02  | 0.226 | 0.257 |
| LTE Band 2 | 20M | QPSK | 50 | 24 |  | Right Cheek  | 0mm | Ant 3 | DSI 6       | 18900 | 1880 | 1 | 13.23 | 13.80 | 1.140 | - | - | -0.18 | 0.308 | 0.351 |
| LTE Band 2 | 20M | QPSK | 50 | 24 |  | Right Tilted | 0mm | Ant 3 | DSI 6       | 18900 | 1880 | 1 | 13.23 | 13.80 | 1.140 | - | - | -0.16 | 0.303 | 0.345 |
| LTE Band 2 | 20M | QPSK | 50 | 24 |  | Left Cheek   | 0mm | Ant 3 | DSI 6       | 18900 | 1880 | 1 | 13.23 | 13.80 | 1.140 | - | - | -0.16 | 0.205 | 0.234 |
| LTE Band 2 | 20M | QPSK | 50 | 24 |  | Left Tilted  | 0mm | Ant 3 | DSI 6       | 18900 | 1880 | 1 | 13.23 | 13.80 | 1.140 | - | - | -0.01 | 0.224 | 0.255 |
| LTE Band 2 | 20M | QPSK | 1  | 49 |  | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 18900 | 1880 | 1 | 22.11 | 22.80 | 1.172 | - | - | -0.1  | 0.079 | 0.093 |
| LTE Band 2 | 20M | QPSK | 1  | 49 |  | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 18900 | 1880 | 1 | 22.11 | 22.80 | 1.172 | - | - | 0.09  | 0.021 | 0.025 |
| LTE Band 2 | 20M | QPSK | 1  | 49 |  | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 18900 | 1880 | 1 | 22.11 | 22.80 | 1.172 | - | - | 0.02  | 0.044 | 0.052 |
| LTE Band 2 | 20M | QPSK | 1  | 49 |  | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 18900 | 1880 | 1 | 22.11 | 22.80 | 1.172 | - | - | 0.05  | 0.026 | 0.030 |
| LTE Band 2 | 20M | QPSK | 50 | 24 |  | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 18900 | 1880 | 1 | 21.08 | 21.80 | 1.180 | - | - | 0.04  | 0.061 | 0.072 |
| LTE Band 2 | 20M | QPSK | 50 | 24 |  | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 18900 | 1880 | 1 | 21.08 | 21.80 | 1.180 | - | - | 0.02  | 0.016 | 0.019 |
| LTE Band 2 | 20M | QPSK | 50 | 24 |  | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 18900 | 1880 | 1 | 21.08 | 21.80 | 1.180 | - | - | 0.18  | 0.034 | 0.040 |
| LTE Band 2 | 20M | QPSK | 50 | 24 |  | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 18900 | 1880 | 1 | 21.08 | 21.80 | 1.180 | - | - | 0.01  | 0.020 | 0.024 |
| 2600MHz    |     |      |    |    |  |              |     |       |             |       |      |   |       |       |       |   |   |       |       |       |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Cheek  | 0mm | Ant 3 | DSI 2       | 21100 | 2535 | 1 | 13.35 | 14.30 | 1.245 | - | - | 0.1   | 0.286 | 0.356 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Tilted | 0mm | Ant 3 | DSI 2       | 21100 | 2535 | 1 | 13.35 | 14.30 | 1.245 | - | - | 0.14  | 0.431 | 0.536 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Cheek   | 0mm | Ant 3 | DSI 2       | 21100 | 2535 | 1 | 13.35 | 14.30 | 1.245 | - | - | 0.08  | 0.193 | 0.240 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Tilted  | 0mm | Ant 3 | DSI 2       | 21100 | 2535 | 1 | 13.35 | 14.30 | 1.245 | - | - | -0.16 | 0.234 | 0.291 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Cheek  | 0mm | Ant 3 | DSI 2       | 21100 | 2535 | 1 | 13.24 | 14.30 | 1.276 | - | - | 0.03  | 0.281 | 0.359 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Tilted | 0mm | Ant 3 | DSI 2       | 21100 | 2535 | 1 | 13.24 | 14.30 | 1.276 | - | - | 0.05  | 0.406 | 0.518 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Cheek   | 0mm | Ant 3 | DSI 2       | 21100 | 2535 | 1 | 13.24 | 14.30 | 1.276 | - | - | -0.18 | 0.188 | 0.240 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Tilted  | 0mm | Ant 3 | DSI 2       | 21100 | 2535 | 1 | 13.24 | 14.30 | 1.276 | - | - | -0.15 | 0.227 | 0.290 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Cheek  | 0mm | Ant 3 | DSI 6       | 21100 | 2535 | 1 | 12.21 | 13.30 | 1.285 | - | - | 0.18  | 0.227 | 0.292 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Tilted | 0mm | Ant 3 | DSI 6       | 21100 | 2535 | 1 | 12.21 | 13.30 | 1.285 | - | - | 0     | 0.342 | 0.440 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Cheek   | 0mm | Ant 3 | DSI 6       | 21100 | 2535 | 1 | 12.21 | 13.30 | 1.285 | - | - | -0.02 | 0.153 | 0.197 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Tilted  | 0mm | Ant 3 | DSI 6       | 21100 | 2535 | 1 | 12.21 | 13.30 | 1.285 | - | - | 0.1   | 0.186 | 0.239 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Cheek  | 0mm | Ant 3 | DSI 6       | 21100 | 2535 | 1 | 12.18 | 13.30 | 1.294 | - | - | 0.07  | 0.223 | 0.289 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Tilted | 0mm | Ant 3 | DSI 6       | 21100 | 2535 | 1 | 12.18 | 13.30 | 1.294 | - | - | -0.14 | 0.322 | 0.417 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Cheek   | 0mm | Ant 3 | DSI 6       | 21100 | 2535 | 1 | 12.18 | 13.30 | 1.294 | - | - | 0.15  | 0.149 | 0.193 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Tilted  | 0mm | Ant 3 | DSI 6       | 21100 | 2535 | 1 | 12.18 | 13.30 | 1.294 | - | - | -0.1  | 0.180 | 0.233 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 21100 | 2535 | 1 | 23.90 | 24.30 | 1.096 | - | - | -0.1  | 0.120 | 0.132 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 21100 | 2535 | 1 | 23.90 | 24.30 | 1.096 | - | - | 0.14  | 0.062 | 0.068 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 21100 | 2535 | 1 | 23.90 | 24.30 | 1.096 | - | - | -0.04 | 0.185 | 0.203 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 21100 | 2535 | 1 | 23.90 | 24.30 | 1.096 | - | - | -0.15 | 0.084 | 0.092 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 21100 | 2535 | 1 | 22.91 | 23.30 | 1.094 | - | - | 0.04  | 0.094 | 0.103 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 21100 | 2535 | 1 | 22.91 | 23.30 | 1.094 | - | - | 0.09  | 0.049 | 0.054 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 21100 | 2535 | 1 | 22.91 | 23.30 | 1.094 | - | - | 0.16  | 0.149 | 0.163 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 21100 | 2535 | 1 | 22.91 | 23.30 | 1.094 | - | - | 0.16  | 0.066 | 0.072 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Cheek  | 0mm | Ant 4 | DSI 2       | 21100 | 2535 | 1 | 17.72 | 18.80 | 1.282 | - | - | -0.13 | 0.327 | 0.419 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Tilted | 0mm | Ant 4 | DSI 2       | 21100 | 2535 | 1 | 17.72 | 18.80 | 1.282 | - | - | -0.09 | 0.147 | 0.189 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Cheek   | 0mm | Ant 4 | DSI 2       | 21100 | 2535 | 1 | 17.72 | 18.80 | 1.282 | - | - | -0.01 | 0.090 | 0.115 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Tilted  | 0mm | Ant 4 | DSI 2       | 21100 | 2535 | 1 | 17.72 | 18.80 | 1.282 | - | - | -0.11 | 0.071 | 0.091 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Cheek  | 0mm | Ant 4 | DSI 2       | 21100 | 2535 | 1 | 17.68 | 18.80 | 1.294 | - | - | 0.06  | 0.367 | 0.475 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Tilted | 0mm | Ant 4 | DSI 2       | 21100 | 2535 | 1 | 17.68 | 18.80 | 1.294 | - | - | -0.11 | 0.148 | 0.192 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Cheek   | 0mm | Ant 4 | DSI 2       | 21100 | 2535 | 1 | 17.68 | 18.80 | 1.294 | - | - | 0     | 0.090 | 0.116 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Tilted  | 0mm | Ant 4 | DSI 2       | 21100 | 2535 | 1 | 17.68 | 18.80 | 1.294 | - | - | -0.08 | 0.071 | 0.092 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Cheek  | 0mm | Ant 4 | DSI 6       | 21100 | 2535 | 1 | 16.51 | 17.80 | 1.346 | - | - | -0.17 | 0.260 | 0.350 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Right Tilted | 0mm | Ant 4 | DSI 6       | 21100 | 2535 | 1 | 16.51 | 17.80 | 1.346 | - | - | -0.02 | 0.117 | 0.157 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Cheek   | 0mm | Ant 4 | DSI 6       | 21100 | 2535 | 1 | 16.51 | 17.80 | 1.346 | - | - | 0.17  | 0.072 | 0.096 |
| LTE Band 7 | 20M | QPSK | 1  | 49 |  | Left Tilted  | 0mm | Ant 4 | DSI 6       | 21100 | 2535 | 1 | 16.51 | 17.80 | 1.346 | - | - | 0.13  | 0.056 | 0.076 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Cheek  | 0mm | Ant 4 | DSI 6       | 21100 | 2535 | 1 | 16.46 | 17.80 | 1.361 | - | - | 0     | 0.292 | 0.397 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Right Tilted | 0mm | Ant 4 | DSI 6       | 21100 | 2535 | 1 | 16.46 | 17.80 | 1.361 | - | - | 0.02  | 0.118 | 0.160 |
| LTE Band 7 | 20M | QPSK | 50 | 24 |  | Left Cheek   | 0mm | Ant 4 | DSI 6       | 21100 | 2535 | 1 | 16.46 | 17.80 | 1.361 | - | - | -0.04 | 0.072 | 0.097 |



# FCC SAR Test Report

Report No. : FA3O3018

|  |            |     |      |     |     |        |              |     |       |             |        |      |   |       |       |       |   |   |       |       |       |
|--|------------|-----|------|-----|-----|--------|--------------|-----|-------|-------------|--------|------|---|-------|-------|-------|---|---|-------|-------|-------|
|  | LTE Band 7 | 20M | QPSK | 50  | 24  |        | Left Tilted  | 0mm | Ant 4 | DSI 6       | 21100  | 2535 | 1 | 16.46 | 17.80 | 1.361 | - | - | 0.03  | 0.056 | 0.077 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 507000 | 2535 | 1 | 12.79 | 13.70 | 1.233 | - | - | 0.01  | 0.301 | 0.371 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 507000 | 2535 | 1 | 12.79 | 13.70 | 1.233 | - | - | 0.01  | 0.444 | 0.547 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 507000 | 2535 | 1 | 12.79 | 13.70 | 1.233 | - | - | -0.01 | 0.202 | 0.249 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 507000 | 2535 | 1 | 12.79 | 13.70 | 1.233 | - | - | 0.1   | 0.247 | 0.305 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 507000 | 2535 | 1 | 12.75 | 13.70 | 1.245 | - | - | -0.06 | 0.305 | 0.380 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 2       | 507000 | 2535 | 1 | 12.75 | 13.70 | 1.245 | - | - | -0.08 | 0.464 | 0.577 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 507000 | 2535 | 1 | 12.75 | 13.70 | 1.245 | - | - | 0.11  | 0.199 | 0.248 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 507000 | 2535 | 1 | 12.75 | 13.70 | 1.245 | - | - | 0.14  | 0.246 | 0.306 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 507000 | 2535 | 1 | 11.38 | 12.20 | 1.208 | - | - | 0.08  | 0.213 | 0.257 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 507000 | 2535 | 1 | 11.38 | 12.20 | 1.208 | - | - | -0.16 | 0.314 | 0.379 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 507000 | 2535 | 1 | 11.38 | 12.20 | 1.208 | - | - | -0.01 | 0.143 | 0.173 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 507000 | 2535 | 1 | 11.38 | 12.20 | 1.208 | - | - | -0.14 | 0.175 | 0.211 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 507000 | 2535 | 1 | 11.32 | 12.20 | 1.225 | - | - | 0.07  | 0.216 | 0.265 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 3 | DSI 6       | 507000 | 2535 | 1 | 11.32 | 12.20 | 1.225 | - | - | 0.03  | 0.328 | 0.402 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 507000 | 2535 | 1 | 11.32 | 12.20 | 1.225 | - | - | 0.07  | 0.141 | 0.173 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 507000 | 2535 | 1 | 11.32 | 12.20 | 1.225 | - | - | 0.07  | 0.174 | 0.213 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 507000 | 2535 | 1 | 22.86 | 23.70 | 1.213 | - | - | 0.14  | 0.152 | 0.184 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 507000 | 2535 | 1 | 22.86 | 23.70 | 1.213 | - | - | -0.12 | 0.091 | 0.110 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 507000 | 2535 | 1 | 22.86 | 23.70 | 1.213 | - | - | -0.18 | 0.307 | 0.373 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 507000 | 2535 | 1 | 22.86 | 23.70 | 1.213 | - | - | 0.15  | 0.136 | 0.165 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 507000 | 2535 | 1 | 22.80 | 23.70 | 1.230 | - | - | 0.14  | 0.153 | 0.188 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 507000 | 2535 | 1 | 22.80 | 23.70 | 1.230 | - | - | 0.1   | 0.095 | 0.117 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 507000 | 2535 | 1 | 22.80 | 23.70 | 1.230 | - | - | 0     | 0.317 | 0.390 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 507000 | 2535 | 1 | 22.80 | 23.70 | 1.230 | - | - | 0     | 0.137 | 0.169 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 507000 | 2535 | 1 | 16.00 | 17.20 | 1.318 | - | - | 0.02  | 0.308 | 0.406 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 2       | 507000 | 2535 | 1 | 16.00 | 17.20 | 1.318 | - | - | 0.17  | 0.137 | 0.181 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 507000 | 2535 | 1 | 16.00 | 17.20 | 1.318 | - | - | -0.02 | 0.063 | 0.083 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 507000 | 2535 | 1 | 16.00 | 17.20 | 1.318 | - | - | 0.16  | 0.054 | 0.071 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 507000 | 2535 | 1 | 15.95 | 17.20 | 1.334 | - | - | 0.12  | 0.288 | 0.384 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 2       | 507000 | 2535 | 1 | 15.95 | 17.20 | 1.334 | - | - | -0.05 | 0.133 | 0.177 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 507000 | 2535 | 1 | 15.95 | 17.20 | 1.334 | - | - | 0.17  | 0.058 | 0.077 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 507000 | 2535 | 1 | 15.95 | 17.20 | 1.334 | - | - | 0.13  | 0.053 | 0.071 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 507000 | 2535 | 1 | 14.55 | 15.70 | 1.303 | - | - | -0.15 | 0.218 | 0.284 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 6       | 507000 | 2535 | 1 | 14.55 | 15.70 | 1.303 | - | - | 0.13  | 0.097 | 0.126 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 507000 | 2535 | 1 | 14.55 | 15.70 | 1.303 | - | - | 0.13  | 0.045 | 0.059 |
|  | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 507000 | 2535 | 1 | 14.55 | 15.70 | 1.303 | - | - | -0.03 | 0.038 | 0.050 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 507000 | 2535 | 1 | 14.52 | 15.70 | 1.312 | - | - | -0.17 | 0.204 | 0.268 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Right Tilted | 0mm | Ant 4 | DSI 6       | 507000 | 2535 | 1 | 14.52 | 15.70 | 1.312 | - | - | -0.01 | 0.094 | 0.123 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 507000 | 2535 | 1 | 14.52 | 15.70 | 1.312 | - | - | -0.1  | 0.041 | 0.054 |
|  | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 507000 | 2535 | 1 | 14.52 | 15.70 | 1.312 | - | - | -0.05 | 0.038 | 0.050 |
|  | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 519000 | 2595 | 1 | 12.19 | 13.70 | 1.416 | - | - | -0.1  | 0.272 | 0.385 |
|  | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 519000 | 2595 | 1 | 12.19 | 13.70 | 1.416 | - | - | 0.02  | 0.407 | 0.576 |
|  | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 519000 | 2595 | 1 | 12.19 | 13.70 | 1.416 | - | - | -0.02 | 0.164 | 0.232 |
|  | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 519000 | 2595 | 1 | 12.19 | 13.70 | 1.416 | - | - | -0.16 | 0.190 | 0.269 |
|  | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 519000 | 2595 | 1 | 12.14 | 13.70 | 1.432 | - | - | -0.13 | 0.276 | 0.395 |
|  | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 519000 | 2595 | 1 | 12.14 | 13.70 | 1.432 | - | - | -0.03 | 0.427 | 0.612 |
|  | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 519000 | 2595 | 1 | 12.14 | 13.70 | 1.432 | - | - | -0.11 | 0.166 | 0.238 |
|  | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 519000 | 2595 | 1 | 12.14 | 13.70 | 1.432 | - | - | -0.02 | 0.192 | 0.275 |
|  | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 519000 | 2595 | 1 | 11.21 | 12.70 | 1.409 | - | - | -0.13 | 0.216 | 0.304 |
|  | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 519000 | 2595 | 1 | 11.21 | 12.70 | 1.409 | - | - | -0.12 | 0.323 | 0.455 |
|  | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 519000 | 2595 | 1 | 11.21 | 12.70 | 1.409 | - | - | 0.01  | 0.130 | 0.183 |
|  | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 519000 | 2595 | 1 | 11.21 | 12.70 | 1.409 | - | - | 0.11  | 0.151 | 0.213 |
|  | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 519000 | 2595 | 1 | 11.12 | 12.70 | 1.439 | - | - | -0.12 | 0.219 | 0.315 |
|  | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 519000 | 2595 | 1 | 11.12 | 12.70 | 1.439 | - | - | -0.13 | 0.339 | 0.488 |
|  | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 519000 | 2595 | 1 | 11.12 | 12.70 | 1.439 | - | - | -0.14 | 0.132 | 0.190 |



# FCC SAR Test Report

Report No. : FA3O3018

|             |      |      |     |     |        |              |     |       |             |        |         |   |       |       |       |   |   |       |       |       |
|-------------|------|------|-----|-----|--------|--------------|-----|-------|-------------|--------|---------|---|-------|-------|-------|---|---|-------|-------|-------|
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 519000 | 2595    | 1 | 11.12 | 12.70 | 1.439 | - | - | -0.12 | 0.153 | 0.220 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.62 | 25.20 | 1.439 | - | - | 0.17  | 0.139 | 0.200 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.62 | 25.20 | 1.439 | - | - | 0.12  | 0.091 | 0.131 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.62 | 25.20 | 1.439 | - | - | -0.13 | 0.312 | 0.449 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.62 | 25.20 | 1.439 | - | - | -0.17 | 0.122 | 0.176 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.51 | 25.20 | 1.476 | - | - | -0.18 | 0.135 | 0.199 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.51 | 25.20 | 1.476 | - | - | 0.19  | 0.087 | 0.128 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.51 | 25.20 | 1.476 | - | - | -0.11 | 0.303 | 0.447 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 519000 | 2595    | 1 | 23.51 | 25.20 | 1.476 | - | - | 0.04  | 0.118 | 0.175 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 15.50 | 17.20 | 1.479 | - | - | 0.05  | 0.306 | 0.453 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 15.50 | 17.20 | 1.479 | - | - | 0.01  | 0.113 | 0.167 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 15.50 | 17.20 | 1.479 | - | - | 0.11  | 0.053 | 0.078 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 15.50 | 17.20 | 1.479 | - | - | -0.12 | 0.048 | 0.071 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 15.46 | 17.20 | 1.493 | - | - | 0.02  | 0.290 | 0.433 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 15.46 | 17.20 | 1.493 | - | - | -0.02 | 0.110 | 0.164 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 15.46 | 17.20 | 1.493 | - | - | 0.11  | 0.052 | 0.078 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 519000 | 2595    | 1 | 15.46 | 17.20 | 1.493 | - | - | 0.05  | 0.047 | 0.070 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 14.00 | 15.70 | 1.479 | - | - | 0.16  | 0.217 | 0.321 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 14.00 | 15.70 | 1.479 | - | - | -0.02 | 0.080 | 0.118 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 14.00 | 15.70 | 1.479 | - | - | 0.02  | 0.038 | 0.056 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 14.00 | 15.70 | 1.479 | - | - | -0.02 | 0.034 | 0.050 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 13.99 | 15.70 | 1.483 | - | - | 0.02  | 0.205 | 0.304 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 13.99 | 15.70 | 1.483 | - | - | -0.16 | 0.078 | 0.116 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 13.99 | 15.70 | 1.483 | - | - | 0.11  | 0.037 | 0.055 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 6       | 519000 | 2595    | 1 | 13.99 | 15.70 | 1.483 | - | - | -0.09 | 0.033 | 0.049 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.10 | 15.20 | 1.288 | - | - | 0.05  | 0.602 | 0.776 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.10 | 15.20 | 1.288 | - | - | -0.1  | 0.678 | 0.873 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.10 | 15.20 | 1.288 | - | - | -0.12 | 0.382 | 0.492 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 14.10 | 15.20 | 1.288 | - | - | -0.09 | 0.406 | 0.523 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 13.96 | 15.20 | 1.330 | - | - | -0.13 | 0.584 | 0.777 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 13.96 | 15.20 | 1.330 | - | - | -0.04 | 0.662 | 0.881 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 13.96 | 15.20 | 1.330 | - | - | 0.16  | 0.363 | 0.483 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 13.96 | 15.20 | 1.330 | - | - | 0.04  | 0.385 | 0.512 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 13.76 | 15.20 | 1.393 | - | - | -0.02 | 0.544 | 0.758 |
| FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 2       | 518598 | 2592.99 | 1 | 13.76 | 15.20 | 1.393 | - | - | 0.03  | 0.598 | 0.833 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 11.60 | 13.20 | 1.445 | - | - | 0.14  | 0.380 | 0.549 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 11.60 | 13.20 | 1.445 | - | - | -0.18 | 0.428 | 0.619 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 11.60 | 13.20 | 1.445 | - | - | 0.04  | 0.241 | 0.348 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 11.60 | 13.20 | 1.445 | - | - | -0.13 | 0.256 | 0.370 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 11.49 | 13.20 | 1.483 | - | - | 0.12  | 0.368 | 0.546 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 11.49 | 13.20 | 1.483 | - | - | 0.07  | 0.418 | 0.620 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 11.49 | 13.20 | 1.483 | - | - | 0.1   | 0.229 | 0.339 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 3 | DSI 6       | 518598 | 2592.99 | 1 | 11.49 | 13.20 | 1.483 | - | - | -0.08 | 0.243 | 0.360 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.45 | 26.20 | 1.496 | - | - | -0.03 | 0.211 | 0.316 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.45 | 26.20 | 1.496 | - | - | 0.14  | 0.169 | 0.253 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.45 | 26.20 | 1.496 | - | - | -0.12 | 0.371 | 0.555 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.45 | 26.20 | 1.496 | - | - | 0.12  | 0.196 | 0.293 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.42 | 26.20 | 1.507 | - | - | -0.04 | 0.194 | 0.292 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.42 | 26.20 | 1.507 | - | - | -0.17 | 0.153 | 0.231 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.42 | 26.20 | 1.507 | - | - | 0.07  | 0.367 | 0.553 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 0 | DSI 2/DSI 6 | 518598 | 2592.99 | 1 | 24.42 | 26.20 | 1.507 | - | - | 0.18  | 0.176 | 0.265 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 15.32 | 17.20 | 1.542 | - | - | -0.06 | 0.268 | 0.413 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 15.32 | 17.20 | 1.542 | - | - | 0.02  | 0.132 | 0.204 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 15.32 | 17.20 | 1.542 | - | - | -0.07 | 0.059 | 0.091 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 15.32 | 17.20 | 1.542 | - | - | -0.18 | 0.055 | 0.085 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 2       | 518598 | 2592.99 | 1 | 15.25 | 17.20 | 1.567 | - | - | -0.1  | 0.296 | 0.464 |



# FCC SAR Test Report

Report No. : FA3O3018

|             |      |      |     |     |        |              |     |       |       |               |   |       |       |       |   |   |       |       |       |
|-------------|------|------|-----|-----|--------|--------------|-----|-------|-------|---------------|---|-------|-------|-------|---|---|-------|-------|-------|
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 2 | 5185982592.99 | 1 | 15.25 | 17.20 | 1.567 | - | - | 0.1   | 0.134 | 0.210 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 2 | 5185982592.99 | 1 | 15.25 | 17.20 | 1.567 | - | - | 0.11  | 0.064 | 0.100 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 2 | 5185982592.99 | 1 | 15.25 | 17.20 | 1.567 | - | - | 0.03  | 0.056 | 0.088 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6 | 5185982592.99 | 1 | 14.31 | 16.20 | 1.545 | - | - | 0.11  | 0.213 | 0.329 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 6 | 5185982592.99 | 1 | 14.31 | 16.20 | 1.545 | - | - | -0.08 | 0.105 | 0.162 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 6 | 5185982592.99 | 1 | 14.31 | 16.20 | 1.545 | - | - | -0.07 | 0.047 | 0.073 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 6 | 5185982592.99 | 1 | 14.31 | 16.20 | 1.545 | - | - | 0.11  | 0.044 | 0.068 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Cheek  | 0mm | Ant 4 | DSI 6 | 5185982592.99 | 1 | 14.25 | 16.20 | 1.567 | - | - | -0.13 | 0.235 | 0.368 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Right Tilted | 0mm | Ant 4 | DSI 6 | 5185982592.99 | 1 | 14.25 | 16.20 | 1.567 | - | - | -0.03 | 0.106 | 0.166 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Cheek   | 0mm | Ant 4 | DSI 6 | 5185982592.99 | 1 | 14.25 | 16.20 | 1.567 | - | - | -0.03 | 0.051 | 0.080 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Tilted  | 0mm | Ant 4 | DSI 6 | 5185982592.99 | 1 | 14.25 | 16.20 | 1.567 | - | - | 0.12  | 0.044 | 0.069 |

| Plot No. | Band       | Mode              | Test Position | Gap (mm) | Antenna | Power State      | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|-------------------|---------------|----------|---------|------------------|-----|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| BT/WIFI  |            |                   |               |          |         |                  |     |             |        |                     |                     |                        |              |                           |                  |                        |                        |
|          | Bluetooth  | DH5 1Mbps         | Right Cheek   | 0mm      | Ant 7   | Full             | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | 0.03             | 0.171                  | 0.263                  |
|          | Bluetooth  | DH5 1Mbps         | Right Tilted  | 0mm      | Ant 7   | Full             | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | -0.07            | 0.203                  | 0.312                  |
| 22       | Bluetooth  | DH5 1Mbps         | Left Cheek    | 0mm      | Ant 7   | Full             | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | 0.02             | 0.297                  | 0.457                  |
|          | Bluetooth  | DH5 1Mbps         | Left Tilted   | 0mm      | Ant 7   | Full             | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | 0.05             | 0.279                  | 0.429                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | Ant 7   | 2.4G             | 11  | 2462        | 1      | 14.90               | 15.00               | 1.023                  | 100          | 1.000                     | 0.06             | 0.292                  | 0.299                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | Ant 7   | 2.4G             | 11  | 2462        | 1      | 14.90               | 15.00               | 1.023                  | 100          | 1.000                     | 0.17             | 0.346                  | 0.354                  |
| 23       | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | Ant 7   | 2.4G             | 11  | 2462        | 1      | 14.90               | 15.00               | 1.023                  | 100          | 1.000                     | 0.09             | 0.650                  | 0.665                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | Ant 7   | 2.4G             | 11  | 2462        | 1      | 14.90               | 15.00               | 1.023                  | 100          | 1.000                     | -0.08            | 0.403                  | 0.412                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | Ant 7   | 2.4G+5G          | 6   | 2437        | 1      | 13.48               | 14.00               | 1.127                  | 100          | 1.000                     | -0.02            | 0.146                  | 0.165                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | Ant 7   | 2.4G+5G          | 6   | 2437        | 1      | 13.48               | 14.00               | 1.127                  | 100          | 1.000                     | -0.04            | 0.173                  | 0.195                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | Ant 7   | 2.4G+5G          | 6   | 2437        | 1      | 13.48               | 14.00               | 1.127                  | 100          | 1.000                     | 0.06             | 0.318                  | 0.358                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | Ant 7   | 2.4G+5G          | 6   | 2437        | 1      | 13.48               | 14.00               | 1.127                  | 100          | 1.000                     | 0.02             | 0.202                  | 0.228                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | Ant 7   | 2.4G+WWAN        | 6   | 2437        | 1      | 12.94               | 13.50               | 1.138                  | 100          | 1.000                     | -0.13            | 0.130                  | 0.148                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | Ant 7   | 2.4G+WWAN        | 6   | 2437        | 1      | 12.94               | 13.50               | 1.138                  | 100          | 1.000                     | 0.02             | 0.155                  | 0.176                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | Ant 7   | 2.4G+WWAN        | 6   | 2437        | 1      | 12.94               | 13.50               | 1.138                  | 100          | 1.000                     | 0.07             | 0.284                  | 0.323                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | Ant 7   | 2.4G+WWAN        | 6   | 2437        | 1      | 12.94               | 13.50               | 1.138                  | 100          | 1.000                     | 0.16             | 0.180                  | 0.205                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | Ant 7   | 2.4G+5G+WWAN     | 6   | 2437        | 1      | 9.44                | 10.00               | 1.138                  | 100          | 1.000                     | -0.01            | 0.058                  | 0.066                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | Ant 7   | 2.4G+5G+WWAN     | 6   | 2437        | 1      | 9.44                | 10.00               | 1.138                  | 100          | 1.000                     | -0.1             | 0.069                  | 0.078                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | Ant 7   | 2.4G+5G+WWAN     | 6   | 2437        | 1      | 9.44                | 10.00               | 1.138                  | 100          | 1.000                     | -0.16            | 0.127                  | 0.144                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | Ant 7   | 2.4G+5G+WWAN     | 6   | 2437        | 1      | 9.44                | 10.00               | 1.138                  | 100          | 1.000                     | 0.14             | 0.080                  | 0.091                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | Ant 8   | 2.4G             | 6   | 2437        | 1      | 14.80               | 15.00               | 1.047                  | 100          | 1.000                     | 0.08             | 0.469                  | 0.491                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | Ant 8   | 2.4G             | 6   | 2437        | 1      | 14.80               | 15.00               | 1.047                  | 100          | 1.000                     | 0.18             | 0.053                  | 0.055                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | Ant 8   | 2.4G             | 6   | 2437        | 1      | 14.80               | 15.00               | 1.047                  | 100          | 1.000                     | 0.03             | 0.386                  | 0.404                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | Ant 8   | 2.4G             | 6   | 2437        | 1      | 14.80               | 15.00               | 1.047                  | 100          | 1.000                     | 0.17             | 0.087                  | 0.091                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | Ant 8   | 2.4G+5G          | 6   | 2437        | 1      | 13.41               | 14.00               | 1.146                  | 100          | 1.000                     | 0.01             | 0.198                  | 0.227                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | Ant 8   | 2.4G+5G          | 6   | 2437        | 1      | 13.41               | 14.00               | 1.146                  | 100          | 1.000                     | -0.03            | 0.027                  | 0.031                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | Ant 8   | 2.4G+5G          | 6   | 2437        | 1      | 13.41               | 14.00               | 1.146                  | 100          | 1.000                     | 0.1              | 0.193                  | 0.221                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | Ant 8   | 2.4G+5G          | 6   | 2437        | 1      | 13.41               | 14.00               | 1.146                  | 100          | 1.000                     | -0.14            | 0.044                  | 0.050                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | Ant 8   | 2.4G+WWAN        | 6   | 2437        | 1      | 12.99               | 13.50               | 1.125                  | 100          | 1.000                     | -0.12            | 0.176                  | 0.198                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | Ant 8   | 2.4G+WWAN        | 6   | 2437        | 1      | 12.99               | 13.50               | 1.125                  | 100          | 1.000                     | -0.16            | 0.024                  | 0.027                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | Ant 8   | 2.4G+WWAN        | 6   | 2437        | 1      | 12.99               | 13.50               | 1.125                  | 100          | 1.000                     | 0                | 0.172                  | 0.193                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | Ant 8   | 2.4G+WWAN        | 6   | 2437        | 1      | 12.99               | 13.50               | 1.125                  | 100          | 1.000                     | -0.15            | 0.039                  | 0.044                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Cheek   | 0mm      | Ant 8   | 2.4G+5G+WWAN     | 6   | 2437        | 1      | 9.42                | 10.00               | 1.143                  | 100          | 1.000                     | -0.05            | 0.079                  | 0.090                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Right Tilted  | 0mm      | Ant 8   | 2.4G+5G+WWAN     | 6   | 2437        | 1      | 9.42                | 10.00               | 1.143                  | 100          | 1.000                     | 0.04             | 0.011                  | 0.013                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Cheek    | 0mm      | Ant 8   | 2.4G+5G+WWAN     | 6   | 2437        | 1      | 9.42                | 10.00               | 1.143                  | 100          | 1.000                     | 0.18             | 0.077                  | 0.088                  |
|          | WLAN2.4GHz | 802.11b 1Mbps     | Left Tilted   | 0mm      | Ant 8   | 2.4G+5G+WWAN     | 6   | 2437        | 1      | 9.42                | 10.00               | 1.143                  | 100          | 1.000                     | 0.14             | 0.017                  | 0.019                  |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Cheek   | 0mm      | Ant 8+6 | 5G&2.4G+5G&5G+BT | 54  | 5270        | 1      | 16.91               | 17.50               | 1.146                  | 87.66        | 1.141                     | 0.18             | 0.453                  | 0.592                  |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Tilted  | 0mm      | Ant 8+6 | 5G&2.4G+5G&5G+BT | 54  | 5270        | 1      | 16.91               | 17.50               | 1.146                  | 87.66        | 1.141                     | 0.16             | 0.529                  | 0.691                  |
| 24       | WLAN5.3GHz | 802.11n-HT40 MCS0 | Left Cheek    | 0mm      | Ant 8+6 | 5G&2.4G+5G&5G+BT | 54  | 5270        | 1      | 16.91               | 17.50               | 1.146                  | 87.66        | 1.141                     | -0.07            | 0.848                  | 1.108                  |



# FCC SAR Test Report

Report No. : FA3O3018

|    |            |                     |              |     |         |                  |     |      |   |       |       |       |       |       |       |       |       |
|----|------------|---------------------|--------------|-----|---------|------------------|-----|------|---|-------|-------|-------|-------|-------|-------|-------|-------|
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Cheek   | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 54  | 5270 | 1 | 16.91 | 17.50 | 1.146 | 87.66 | 1.141 | 0.03  | 0.812 | 1.061 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Tilted  | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 54  | 5270 | 1 | 16.91 | 17.50 | 1.146 | 87.66 | 1.141 | -0.08 | 0.689 | 0.901 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Cheek   | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 62  | 5310 | 1 | 10.61 | 11.50 | 1.227 | 87.66 | 1.141 | -0.05 | 0.183 | 0.256 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Tilted  | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 62  | 5310 | 1 | 10.61 | 11.50 | 1.227 | 87.66 | 1.141 | 0.02  | 0.145 | 0.203 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Cheek  | 0mm | Ant 8+6 | 5G+WWAN          | 54  | 5270 | 1 | 14.05 | 15.00 | 1.245 | 87.66 | 1.141 | -0.14 | 0.155 | 0.220 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Tilted | 0mm | Ant 8+6 | 5G+WWAN          | 54  | 5270 | 1 | 14.05 | 15.00 | 1.245 | 87.66 | 1.141 | 0.13  | 0.191 | 0.271 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Cheek   | 0mm | Ant 8+6 | 5G+WWAN          | 54  | 5270 | 1 | 14.05 | 15.00 | 1.245 | 87.66 | 1.141 | 0.01  | 0.378 | 0.536 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Tilted  | 0mm | Ant 8+6 | 5G+WWAN          | 54  | 5270 | 1 | 14.05 | 15.00 | 1.245 | 87.66 | 1.141 | -0.14 | 0.268 | 0.380 |
|    | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 5G+WWAN+BT       | 58  | 5290 | 1 | 11.58 | 12.50 | 1.236 | 87.28 | 1.146 | 0.01  | 0.082 | 0.116 |
|    | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 5G+WWAN+BT       | 58  | 5290 | 1 | 11.58 | 12.50 | 1.236 | 87.28 | 1.146 | -0.05 | 0.101 | 0.143 |
|    | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G+WWAN+BT       | 58  | 5290 | 1 | 11.58 | 12.50 | 1.236 | 87.28 | 1.146 | 0.12  | 0.199 | 0.282 |
|    | WLAN5.3GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 5G+WWAN+BT       | 58  | 5290 | 1 | 11.58 | 12.50 | 1.236 | 87.28 | 1.146 | -0.03 | 0.141 | 0.200 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Cheek  | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 54  | 5270 | 1 | 13.11 | 14.00 | 1.227 | 87.66 | 1.141 | 0.07  | 0.117 | 0.163 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Tilted | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 54  | 5270 | 1 | 13.11 | 14.00 | 1.227 | 87.66 | 1.141 | -0.11 | 0.144 | 0.201 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Cheek   | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 54  | 5270 | 1 | 13.11 | 14.00 | 1.227 | 87.66 | 1.141 | -0.02 | 0.284 | 0.398 |
|    | WLAN5.3GHz | 802.11n-HT40 MCS0   | Left Tilted  | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 54  | 5270 | 1 | 13.11 | 14.00 | 1.227 | 87.66 | 1.141 | 0.05  | 0.201 | 0.282 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 122 | 5610 | 1 | 17.38 | 18.00 | 1.153 | 87.28 | 1.146 | -0.14 | 0.574 | 0.759 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 122 | 5610 | 1 | 17.38 | 18.00 | 1.153 | 87.28 | 1.146 | -0.08 | 0.590 | 0.780 |
| 25 | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 122 | 5610 | 1 | 17.38 | 18.00 | 1.153 | 87.28 | 1.146 | 0.05  | 0.845 | 1.117 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 122 | 5610 | 2 | 17.38 | 18.00 | 1.153 | 87.28 | 1.146 | 0.01  | 0.795 | 1.051 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 122 | 5610 | 1 | 17.38 | 18.00 | 1.153 | 87.28 | 1.146 | 0.04  | 0.574 | 0.759 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 106 | 5530 | 1 | 9.61  | 10.00 | 1.094 | 87.28 | 1.146 | -0.09 | 0.125 | 0.157 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 5G+WWAN          | 122 | 5610 | 1 | 12.55 | 13.50 | 1.245 | 87.28 | 1.146 | -0.1  | 0.182 | 0.260 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 5G+WWAN          | 122 | 5610 | 1 | 12.55 | 13.50 | 1.245 | 87.28 | 1.146 | -0.08 | 0.187 | 0.267 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G+WWAN          | 122 | 5610 | 1 | 12.55 | 13.50 | 1.245 | 87.28 | 1.146 | 0.12  | 0.291 | 0.415 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 5G+WWAN          | 122 | 5610 | 1 | 12.55 | 13.50 | 1.245 | 87.28 | 1.146 | -0.07 | 0.182 | 0.260 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 5G+WWAN+BT       | 122 | 5610 | 1 | 10.55 | 11.50 | 1.245 | 87.28 | 1.146 | -0.16 | 0.115 | 0.164 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 5G+WWAN+BT       | 122 | 5610 | 1 | 10.55 | 11.50 | 1.245 | 87.28 | 1.146 | -0.04 | 0.118 | 0.168 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G+WWAN+BT       | 122 | 5610 | 1 | 10.55 | 11.50 | 1.245 | 87.28 | 1.146 | 0.16  | 0.184 | 0.262 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 5G+WWAN+BT       | 122 | 5610 | 1 | 10.55 | 11.50 | 1.245 | 87.28 | 1.146 | -0.02 | 0.115 | 0.164 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 122 | 5610 | 1 | 12.08 | 13.00 | 1.236 | 87.28 | 1.146 | 0.01  | 0.162 | 0.229 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 122 | 5610 | 1 | 12.08 | 13.00 | 1.236 | 87.28 | 1.146 | -0.11 | 0.167 | 0.237 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 122 | 5610 | 1 | 12.08 | 13.00 | 1.236 | 87.28 | 1.146 | -0.09 | 0.259 | 0.367 |
|    | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 122 | 5610 | 1 | 12.08 | 13.00 | 1.236 | 87.28 | 1.146 | -0.07 | 0.162 | 0.229 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 155 | 5775 | 1 | 15.61 | 16.50 | 1.227 | 87.28 | 1.146 | -0.16 | 0.424 | 0.596 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 155 | 5775 | 1 | 15.61 | 16.50 | 1.227 | 87.28 | 1.146 | 0.13  | 0.699 | 0.983 |
| 26 | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 155 | 5775 | 1 | 15.61 | 16.50 | 1.227 | 87.28 | 1.146 | -0.12 | 0.766 | 1.077 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 5G&2.4G+5G&5G+BT | 155 | 5775 | 1 | 15.61 | 16.50 | 1.227 | 87.28 | 1.146 | -0.01 | 0.463 | 0.651 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 5G+WWAN          | 155 | 5775 | 1 | 11.59 | 12.50 | 1.233 | 87.28 | 1.146 | 0.11  | 0.169 | 0.239 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 5G+WWAN          | 155 | 5775 | 1 | 11.59 | 12.50 | 1.233 | 87.28 | 1.146 | 0.03  | 0.278 | 0.393 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G+WWAN          | 155 | 5775 | 1 | 11.59 | 12.50 | 1.233 | 87.28 | 1.146 | -0.05 | 0.305 | 0.431 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 5G+WWAN          | 155 | 5775 | 1 | 11.59 | 12.50 | 1.233 | 87.28 | 1.146 | -0.15 | 0.184 | 0.260 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 5G+WWAN+BT       | 155 | 5775 | 1 | 8.61  | 9.50  | 1.227 | 87.28 | 1.146 | 0.13  | 0.085 | 0.120 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 5G+WWAN+BT       | 155 | 5775 | 1 | 8.61  | 9.50  | 1.227 | 87.28 | 1.146 | -0.13 | 0.139 | 0.196 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 5G+WWAN+BT       | 155 | 5775 | 1 | 8.61  | 9.50  | 1.227 | 87.28 | 1.146 | -0.03 | 0.153 | 0.215 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 5G+WWAN+BT       | 155 | 5775 | 1 | 8.61  | 9.50  | 1.227 | 87.28 | 1.146 | -0.11 | 0.092 | 0.129 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Cheek  | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 155 | 5775 | 1 | 10.53 | 11.50 | 1.250 | 87.28 | 1.146 | 0.16  | 0.134 | 0.192 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 155 | 5775 | 1 | 10.53 | 11.50 | 1.250 | 87.28 | 1.146 | 0.11  | 0.221 | 0.317 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Cheek   | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 155 | 5775 | 1 | 10.53 | 11.50 | 1.250 | 87.28 | 1.146 | -0.07 | 0.242 | 0.347 |
|    | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Left Tilted  | 0mm | Ant 8+6 | 2.4G+5G+WWAN     | 155 | 5775 | 1 | 10.53 | 11.50 | 1.250 | 87.28 | 1.146 | -0.06 | 0.146 | 0.209 |



## 14.2 Hotspot SAR

| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode              | Test Position | Gap (mm) | Antenna | Power State | Ch.   | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|-------------------|---------------|----------|---------|-------------|-------|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 750MHz   |             |          |            |         |           |                   |               |          |         |             |       |             |        |                     |                     |                        |              |                           |                  |                        |                        |
| 27       | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 10mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.97               | 22.20               | 1.054                  | -            | -                         | -0.02            | 0.196                  | 0.207                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 10mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.97               | 22.20               | 1.054                  | -            | -                         | -0.09            | 0.323                  | 0.341                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Left Side     | 10mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.97               | 22.20               | 1.054                  | -            | -                         | 0.14             | 0.544                  | 0.574                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 10mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.96               | 22.20               | 1.057                  | -            | -                         | 0.19             | 0.192                  | 0.203                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 10mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.96               | 22.20               | 1.057                  | -            | -                         | 0.13             | 0.310                  | 0.328                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Left Side     | 10mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.96               | 22.20               | 1.057                  | -            | -                         | 0.07             | 0.482                  | 0.509                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 10mm     | Ant 0   | DSI 5       | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | 0.16             | 0.101                  | 0.136                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 10mm     | Ant 0   | DSI 5       | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.02            | 0.146                  | 0.196                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Left Side     | 10mm     | Ant 0   | DSI 5       | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.11            | 0.115                  | 0.154                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | 0.08             | 0.084                  | 0.113                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 10mm     | Ant 0   | DSI 5       | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | -0.01            | 0.092                  | 0.128                  |
| 28       | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 10mm     | Ant 0   | DSI 5       | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | 0.11             | 0.114                  | 0.158                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Left Side     | 10mm     | Ant 0   | DSI 5       | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | -0.06            | 0.091                  | 0.126                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | 0.19             | 0.060                  | 0.083                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 10mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.79               | 21.00               | 1.050                  | -            | -                         | 0.12             | 0.360                  | 0.378                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 10mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.79               | 21.00               | 1.050                  | -            | -                         | 0.12             | 0.534                  | 0.560                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Left Side     | 10mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.79               | 21.00               | 1.050                  | -            | -                         | 0.04             | 0.716                  | 0.751                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 10mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.74               | 21.00               | 1.062                  | -            | -                         | 0.12             | 0.319                  | 0.339                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 10mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.74               | 21.00               | 1.062                  | -            | -                         | -0.17            | 0.520                  | 0.552                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Left Side     | 10mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.74               | 21.00               | 1.062                  | -            | -                         | -0.09            | 0.623                  | 0.661                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 10mm     | Ant 0   | DSI 5       | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | 0.03             | 0.106                  | 0.142                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 10mm     | Ant 0   | DSI 5       | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | 0.06             | 0.176                  | 0.236                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Left Side     | 10mm     | Ant 0   | DSI 5       | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | 0.12             | 0.204                  | 0.273                  |
| 29       | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | -0.13            | 0.096                  | 0.129                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 10mm     | Ant 0   | DSI 5       | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | 0.03             | 0.083                  | 0.110                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 10mm     | Ant 0   | DSI 5       | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | 0.09             | 0.130                  | 0.173                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Left Side     | 10mm     | Ant 0   | DSI 5       | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | -0.05            | 0.163                  | 0.217                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | 0.01             | 0.069                  | 0.092                  |
|          | 835MHz      |          |            |         |           |                   |               |          |         |             |       |             |        |                     |                     |                        |              |                           |                  |                        |                        |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Front         | 10mm     | Ant 1   | DSI 5       | 189   | 836.4       | 1      | 26.43               | 27.50               | 1.279                  | -            | -                         | -0.11            | 0.359                  | 0.459                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Back          | 10mm     | Ant 1   | DSI 5       | 189   | 836.4       | 1      | 26.43               | 27.50               | 1.279                  | -            | -                         | 0.04             | 0.573                  | 0.733                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Left Side     | 10mm     | Ant 1   | DSI 5       | 189   | 836.4       | 1      | 26.43               | 27.50               | 1.279                  | -            | -                         | 0.09             | 0.595                  | 0.761                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Front         | 10mm     | Ant 0   | DSI 5       | 189   | 836.4       | 1      | 26.31               | 27.50               | 1.315                  | -            | -                         | -0.05            | 0.169                  | 0.222                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Back          | 10mm     | Ant 0   | DSI 5       | 189   | 836.4       | 1      | 26.31               | 27.50               | 1.315                  | -            | -                         | -0.13            | 0.273                  | 0.359                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Left Side     | 10mm     | Ant 0   | DSI 5       | 189   | 836.4       | 1      | 26.31               | 27.50               | 1.315                  | -            | -                         | -0.15            | 0.137                  | 0.180                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 189   | 836.4       | 1      | 26.31               | 27.50               | 1.315                  | -            | -                         | -0.1             | 0.190                  | 0.250                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Front         | 10mm     | Ant 1   | DSI 5       | 4182  | 836.4       | 1      | 20.12               | 20.40               | 1.067                  | -            | -                         | -0.03            | 0.347                  | 0.370                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Back          | 10mm     | Ant 1   | DSI 5       | 4182  | 836.4       | 1      | 20.12               | 20.40               | 1.067                  | -            | -                         | -0.07            | 0.498                  | 0.531                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Left Side     | 10mm     | Ant 1   | DSI 5       | 4182  | 836.4       | 1      | 20.12               | 20.40               | 1.067                  | -            | -                         | -0.1             | 0.504                  | 0.538                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Front         | 10mm     | Ant 0   | DSI 5       | 4182  | 836.4       | 1      | 22.05               | 23.40               | 1.365                  | -            | -                         | 0.14             | 0.159                  | 0.217                  |
| 30       | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Back          | 10mm     | Ant 0   | DSI 5       | 4182  | 836.4       | 1      | 22.05               | 23.40               | 1.365                  | -            | -                         | -0.07            | 0.273                  | 0.373                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Left Side     | 10mm     | Ant 0   | DSI 5       | 4182  | 836.4       | 1      | 22.05               | 23.40               | 1.365                  | -            | -                         | -0.07            | 0.128                  | 0.175                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 4182  | 836.4       | 1      | 22.05               | 23.40               | 1.365                  | -            | -                         | -0.16            | 0.198                  | 0.270                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Front         | 10mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.79               | 20.10               | 1.074                  | -            | -                         | 0.12             | 0.287                  | 0.308                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Back          | 10mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.79               | 20.10               | 1.074                  | -            | -                         | -0.11            | 0.435                  | 0.467                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Left Side     | 10mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.79               | 20.10               | 1.074                  | -            | -                         | -0.04            | 0.466                  | 0.500                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 20        | -                 | Front         | 10mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.76               | 20.10               | 1.081                  | -            | -                         | -0.03            | 0.280                  | 0.303                  |
| 31       | LTE Band 26 | 15M      | QPSK       | 36      | 20        | -                 | Back          | 10mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.76               | 20.10               | 1.081                  | -            | -                         | 0.02             | 0.431                  | 0.466                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 20        | -                 | Left Side     | 10mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.76               | 20.10               | 1.081                  | -            | -                         | -0.12            | 0.459                  | 0.496                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Front         | 10mm     | Ant 0   | DSI 5       | 26865 | 831.5       | 1      | 22.28               | 23.60               | 1.355                  | -            | -                         | -0.12            | 0.166                  | 0.225                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Back          | 10mm     | Ant 0   | DSI 5       | 26865 | 831.5       | 1      | 22.28               | 23.60               | 1.355                  | -            | -                         | -0.12            | 0.166                  | 0.225                  |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |     |    |              |             |      |       |       |        |        |   |       |       |       |   |   |       |       |       |
|---------|-------------|-----|------|-----|----|--------------|-------------|------|-------|-------|--------|--------|---|-------|-------|-------|---|---|-------|-------|-------|
|         | LTE Band 26 | 15M | QPSK | 1   | 37 | -            | Back        | 10mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.28 | 23.60 | 1.355 | - | - | 0.05  | 0.280 | 0.379 |
|         | LTE Band 26 | 15M | QPSK | 1   | 37 | -            | Left Side   | 10mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.28 | 23.60 | 1.355 | - | - | 0.15  | 0.125 | 0.169 |
|         | LTE Band 26 | 15M | QPSK | 1   | 37 | -            | Bottom Side | 10mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.28 | 23.60 | 1.355 | - | - | -0.19 | 0.199 | 0.270 |
|         | LTE Band 26 | 15M | QPSK | 36  | 20 | -            | Front       | 10mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.16 | 23.60 | 1.393 | - | - | 0.16  | 0.163 | 0.227 |
|         | LTE Band 26 | 15M | QPSK | 36  | 20 | -            | Back        | 10mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.16 | 23.60 | 1.393 | - | - | -0.04 | 0.275 | 0.383 |
|         | LTE Band 26 | 15M | QPSK | 36  | 20 | -            | Left Side   | 10mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.16 | 23.60 | 1.393 | - | - | -0.12 | 0.121 | 0.169 |
|         | LTE Band 26 | 15M | QPSK | 36  | 20 | -            | Bottom Side | 10mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.16 | 23.60 | 1.393 | - | - | 0.17  | 0.195 | 0.272 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Front       | 10mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.94 | 21.20 | 1.337 | - | - | -0.07 | 0.338 | 0.452 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Back        | 10mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.94 | 21.20 | 1.337 | - | - | 0.12  | 0.474 | 0.634 |
| 32      | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Left Side   | 10mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.94 | 21.20 | 1.337 | - | - | 0.05  | 0.772 | 1.032 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Left Side   | 10mm | Ant 1 | DSI 5 | 166300 | 831.5  | 2 | 19.94 | 21.20 | 1.337 | - | - | 0.05  | 0.652 | 0.871 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Front       | 10mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.93 | 21.20 | 1.340 | - | - | 0.12  | 0.332 | 0.445 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Back        | 10mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.93 | 21.20 | 1.340 | - | - | -0.08 | 0.470 | 0.630 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Left Side   | 10mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.93 | 21.20 | 1.340 | - | - | 0.16  | 0.711 | 0.953 |
|         | FR1 n26     | 20M | QPSK | 100 | 0  | DFT-15       | Left Side   | 10mm | Ant 1 | DSI 5 | 167800 | 839    | 1 | 19.88 | 21.20 | 1.355 | - | - | 0.06  | 0.569 | 0.771 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Front       | 10mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.96 | 23.20 | 1.330 | - | - | 0.14  | 0.141 | 0.188 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Back        | 10mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.96 | 23.20 | 1.330 | - | - | 0.04  | 0.227 | 0.302 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Left Side   | 10mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.96 | 23.20 | 1.330 | - | - | 0.08  | 0.111 | 0.148 |
|         | FR1 n26     | 20M | QPSK | 1   | 53 | DFT-15       | Bottom Side | 10mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.96 | 23.20 | 1.330 | - | - | 0.03  | 0.147 | 0.196 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Front       | 10mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.89 | 23.20 | 1.352 | - | - | -0.16 | 0.136 | 0.184 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Back        | 10mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.89 | 23.20 | 1.352 | - | - | 0.16  | 0.207 | 0.280 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Left Side   | 10mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.89 | 23.20 | 1.352 | - | - | 0.13  | 0.094 | 0.127 |
|         | FR1 n26     | 20M | QPSK | 50  | 28 | DFT-15       | Bottom Side | 10mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.89 | 23.20 | 1.352 | - | - | 0.06  | 0.138 | 0.187 |
| 1750MHz |             |     |      |     |    |              |             |      |       |       |        |        |   |       |       |       |   |   |       |       |       |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Front       | 10mm | Ant 3 | DSI 5 | 1413   | 1732.6 | 1 | 20.72 | 21.30 | 1.143 | - | - | 0.03  | 0.209 | 0.239 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Back        | 10mm | Ant 3 | DSI 5 | 1413   | 1732.6 | 1 | 20.72 | 21.30 | 1.143 | - | - | -0.16 | 0.396 | 0.453 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Left Side   | 10mm | Ant 3 | DSI 5 | 1413   | 1732.6 | 1 | 20.72 | 21.30 | 1.143 | - | - | -0.11 | 0.063 | 0.072 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Top Side    | 10mm | Ant 3 | DSI 5 | 1413   | 1732.6 | 1 | 20.72 | 21.30 | 1.143 | - | - | -0.13 | 0.356 | 0.407 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Front       | 10mm | Ant 0 | DSI 5 | 1413   | 1732.6 | 1 | 18.73 | 19.80 | 1.279 | - | - | -0.1  | 0.282 | 0.361 |
| 33      | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Back        | 10mm | Ant 0 | DSI 5 | 1413   | 1732.6 | 1 | 18.73 | 19.80 | 1.279 | - | - | 0.02  | 0.472 | 0.604 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Left Side   | 10mm | Ant 0 | DSI 5 | 1413   | 1732.6 | 1 | 18.73 | 19.80 | 1.279 | - | - | -0.19 | 0.212 | 0.271 |
|         | WCDMA IV    | -   | -    | -   | -  | RMC 12.2Kbps | Bottom Side | 10mm | Ant 0 | DSI 5 | 1413   | 1732.6 | 1 | 18.73 | 19.80 | 1.279 | - | - | 0.14  | 0.398 | 0.509 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Front       | 10mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.91 | 20.30 | 1.094 | - | - | 0.16  | 0.172 | 0.188 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Back        | 10mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.91 | 20.30 | 1.094 | - | - | 0.07  | 0.312 | 0.341 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Side   | 10mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.91 | 20.30 | 1.094 | - | - | -0.19 | 0.059 | 0.065 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Top Side    | 10mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.91 | 20.30 | 1.094 | - | - | 0.12  | 0.308 | 0.337 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Front       | 10mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.89 | 20.30 | 1.099 | - | - | -0.18 | 0.176 | 0.193 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Back        | 10mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.89 | 20.30 | 1.099 | - | - | 0.19  | 0.315 | 0.346 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Left Side   | 10mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.89 | 20.30 | 1.099 | - | - | -0.19 | 0.062 | 0.068 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Top Side    | 10mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.89 | 20.30 | 1.099 | - | - | -0.05 | 0.311 | 0.342 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Front       | 10mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.29 | 19.30 | 1.262 | - | - | 0.05  | 0.262 | 0.331 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Back        | 10mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.29 | 19.30 | 1.262 | - | - | -0.14 | 0.457 | 0.577 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Side   | 10mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.29 | 19.30 | 1.262 | - | - | -0.05 | 0.194 | 0.245 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Bottom Side | 10mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.29 | 19.30 | 1.262 | - | - | 0.07  | 0.364 | 0.459 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Front       | 10mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.28 | 19.30 | 1.265 | - | - | -0.07 | 0.271 | 0.343 |
| 34      | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Back        | 10mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.28 | 19.30 | 1.265 | - | - | -0.09 | 0.486 | 0.615 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Left Side   | 10mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.28 | 19.30 | 1.265 | - | - | 0.12  | 0.201 | 0.254 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Bottom Side | 10mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.28 | 19.30 | 1.265 | - | - | -0.11 | 0.375 | 0.474 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Front       | 10mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.61 | 19.80 | 1.045 | - | - | -0.01 | 0.147 | 0.154 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Back        | 10mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.61 | 19.80 | 1.045 | - | - | -0.19 | 0.307 | 0.321 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Left Side   | 10mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.61 | 19.80 | 1.045 | - | - | 0.01  | 0.301 | 0.314 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49 | -            | Top Side    | 10mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.61 | 19.80 | 1.045 | - | - | 0.13  | 0.044 | 0.046 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Front       | 10mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.59 | 19.80 | 1.050 | - | - | -0.18 | 0.142 | 0.149 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Back        | 10mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.59 | 19.80 | 1.050 | - | - | -0.1  | 0.295 | 0.310 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Left Side   | 10mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.59 | 19.80 | 1.050 | - | - | 0.16  | 0.288 | 0.302 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24 | -            | Top Side    | 10mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.59 | 19.80 | 1.050 | - | - | -0.07 | 0.042 | 0.044 |



# FCC SAR Test Report

Report No. : FA3O3018

|         |            |     |      |     |     |                   |             |      |       |       |        |        |   |       |       |       |   |   |       |       |       |
|---------|------------|-----|------|-----|-----|-------------------|-------------|------|-------|-------|--------|--------|---|-------|-------|-------|---|---|-------|-------|-------|
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Front       | 10mm | Ant 3 | DSI 5 | 349000 | 1745   | 1 | 19.99 | 21.20 | 1.321 | - | - | -0.19 | 0.251 | 0.332 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Back        | 10mm | Ant 3 | DSI 5 | 349000 | 1745   | 1 | 19.99 | 21.20 | 1.321 | - | - | 0     | 0.463 | 0.612 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Left Side   | 10mm | Ant 3 | DSI 5 | 349000 | 1745   | 1 | 19.99 | 21.20 | 1.321 | - | - | 0.04  | 0.095 | 0.126 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Top Side    | 10mm | Ant 3 | DSI 5 | 349000 | 1745   | 1 | 19.99 | 21.20 | 1.321 | - | - | 0.12  | 0.451 | 0.596 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Front       | 10mm | Ant 3 | DSI 5 | 349000 | 1745   | 1 | 19.95 | 21.20 | 1.334 | - | - | 0.07  | 0.281 | 0.375 |
| 35      | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Back        | 10mm | Ant 3 | DSI 5 | 349000 | 1745   | 1 | 19.95 | 21.20 | 1.334 | - | - | 0.02  | 0.503 | 0.671 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Left Side   | 10mm | Ant 3 | DSI 5 | 349000 | 1745   | 1 | 19.95 | 21.20 | 1.334 | - | - | -0.02 | 0.098 | 0.131 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Top Side    | 10mm | Ant 3 | DSI 5 | 349000 | 1745   | 1 | 19.95 | 21.20 | 1.334 | - | - | -0.11 | 0.478 | 0.637 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Front       | 10mm | Ant 0 | DSI 5 | 349000 | 1745   | 1 | 18.86 | 19.70 | 1.213 | - | - | 0.04  | 0.328 | 0.398 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Back        | 10mm | Ant 0 | DSI 5 | 349000 | 1745   | 1 | 18.86 | 19.70 | 1.213 | - | - | 0.03  | 0.503 | 0.610 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Left Side   | 10mm | Ant 0 | DSI 5 | 349000 | 1745   | 1 | 18.86 | 19.70 | 1.213 | - | - | -0.09 | 0.229 | 0.278 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Bottom Side | 10mm | Ant 0 | DSI 5 | 349000 | 1745   | 1 | 18.86 | 19.70 | 1.213 | - | - | 0.03  | 0.467 | 0.567 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Front       | 10mm | Ant 0 | DSI 5 | 349000 | 1745   | 1 | 18.85 | 19.70 | 1.216 | - | - | 0.16  | 0.330 | 0.401 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Back        | 10mm | Ant 0 | DSI 5 | 349000 | 1745   | 1 | 18.85 | 19.70 | 1.216 | - | - | -0.18 | 0.519 | 0.631 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Left Side   | 10mm | Ant 0 | DSI 5 | 349000 | 1745   | 1 | 18.85 | 19.70 | 1.216 | - | - | 0.02  | 0.237 | 0.288 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Bottom Side | 10mm | Ant 0 | DSI 5 | 349000 | 1745   | 1 | 18.85 | 19.70 | 1.216 | - | - | 0.17  | 0.495 | 0.602 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Front       | 10mm | Ant 4 | DSI 5 | 349000 | 1745   | 1 | 19.06 | 20.20 | 1.300 | - | - | -0.09 | 0.162 | 0.211 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Back        | 10mm | Ant 4 | DSI 5 | 349000 | 1745   | 1 | 19.06 | 20.20 | 1.300 | - | - | -0.15 | 0.351 | 0.456 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Left Side   | 10mm | Ant 4 | DSI 5 | 349000 | 1745   | 1 | 19.06 | 20.20 | 1.300 | - | - | 0.14  | 0.333 | 0.433 |
|         | FR1 n66    | 40M | QPSK | 1   | 108 | DFT-15            | Top Side    | 10mm | Ant 4 | DSI 5 | 349000 | 1745   | 1 | 19.06 | 20.20 | 1.300 | - | - | 0.12  | 0.066 | 0.086 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Front       | 10mm | Ant 4 | DSI 5 | 349000 | 1745   | 1 | 19.04 | 20.20 | 1.306 | - | - | -0.13 | 0.169 | 0.221 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Back        | 10mm | Ant 4 | DSI 5 | 349000 | 1745   | 1 | 19.04 | 20.20 | 1.306 | - | - | -0.11 | 0.367 | 0.479 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Left Side   | 10mm | Ant 4 | DSI 5 | 349000 | 1745   | 1 | 19.04 | 20.20 | 1.306 | - | - | 0.03  | 0.339 | 0.443 |
|         | FR1 n66    | 40M | QPSK | 108 | 54  | DFT-15            | Top Side    | 10mm | Ant 4 | DSI 5 | 349000 | 1745   | 1 | 19.04 | 20.20 | 1.306 | - | - | -0.12 | 0.070 | 0.091 |
| 1900MHz |            |     |      |     |     |                   |             |      |       |       |        |        |   |       |       |       |   |   |       |       |       |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Front       | 10mm | Ant 3 | DSI 5 | 661    | 1880   | 1 | 23.10 | 24.30 | 1.318 | - | - | 0.03  | 0.205 | 0.270 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Back        | 10mm | Ant 3 | DSI 5 | 661    | 1880   | 1 | 23.10 | 24.30 | 1.318 | - | - | -0.18 | 0.473 | 0.624 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Left Side   | 10mm | Ant 3 | DSI 5 | 661    | 1880   | 1 | 23.10 | 24.30 | 1.318 | - | - | -0.07 | 0.080 | 0.105 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Top Side    | 10mm | Ant 3 | DSI 5 | 661    | 1880   | 1 | 23.10 | 24.30 | 1.318 | - | - | -0.06 | 0.447 | 0.589 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Front       | 10mm | Ant 0 | DSI 5 | 661    | 1880   | 1 | 22.74 | 24.30 | 1.432 | - | - | 0.14  | 0.400 | 0.573 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Back        | 10mm | Ant 0 | DSI 5 | 661    | 1880   | 1 | 22.74 | 24.30 | 1.432 | - | - | -0.13 | 0.591 | 0.846 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Left Side   | 10mm | Ant 0 | DSI 5 | 661    | 1880   | 1 | 22.74 | 24.30 | 1.432 | - | - | -0.08 | 0.317 | 0.454 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Bottom Side | 10mm | Ant 0 | DSI 5 | 661    | 1880   | 1 | 22.74 | 24.30 | 1.432 | - | - | 0.19  | 0.545 | 0.781 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Back        | 10mm | Ant 0 | DSI 5 | 512    | 1850.2 | 1 | 22.55 | 24.30 | 1.496 | - | - | -0.14 | 0.532 | 0.796 |
| 36      | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Back        | 10mm | Ant 0 | DSI 5 | 810    | 1909.8 | 1 | 22.51 | 24.30 | 1.510 | - | - | -0.07 | 0.606 | 0.915 |
|         | GSM1900    | -   | -    | -   | -   | GPRS (4 Tx slots) | Back        | 10mm | Ant 0 | DSI 5 | 810    | 1909.8 | 2 | 22.51 | 24.30 | 1.510 | - | - | -0.07 | 0.596 | 0.900 |
|         | WCDMA II   | -   | -    | -   | -   | RMC 12.2Kbps      | Front       | 10mm | Ant 3 | DSI 5 | 9400   | 1880   | 1 | 18.24 | 18.90 | 1.164 | - | - | 0.02  | 0.160 | 0.186 |
|         | WCDMA II   | -   | -    | -   | -   | RMC 12.2Kbps      | Back        | 10mm | Ant 3 | DSI 5 | 9400   | 1880   | 1 | 18.24 | 18.90 | 1.164 | - | - | 0.16  | 0.324 | 0.377 |
|         | WCDMA II   | -   | -    | -   | -   | RMC 12.2Kbps      | Left Side   | 10mm | Ant 3 | DSI 5 | 9400   | 1880   | 1 | 18.24 | 18.90 | 1.164 | - | - | 0.14  | 0.048 | 0.056 |
|         | WCDMA II   | -   | -    | -   | -   | RMC 12.2Kbps      | Top Side    | 10mm | Ant 3 | DSI 5 | 9400   | 1880   | 1 | 18.24 | 18.90 | 1.164 | - | - | 0.05  | 0.316 | 0.368 |
|         | WCDMA II   | -   | -    | -   | -   | RMC 12.2Kbps      | Front       | 10mm | Ant 0 | DSI 5 | 9400   | 1880   | 1 | 18.28 | 19.40 | 1.294 | - | - | -0.14 | 0.261 | 0.338 |
| 37      | WCDMA II   | -   | -    | -   | -   | RMC 12.2Kbps      | Back        | 10mm | Ant 0 | DSI 5 | 9400   | 1880   | 1 | 18.28 | 19.40 | 1.294 | - | - | -0.01 | 0.479 | 0.620 |
|         | WCDMA II   | -   | -    | -   | -   | RMC 12.2Kbps      | Left Side   | 10mm | Ant 0 | DSI 5 | 9400   | 1880   | 1 | 18.28 | 19.40 | 1.294 | - | - | 0     | 0.215 | 0.278 |
|         | WCDMA II   | -   | -    | -   | -   | RMC 12.2Kbps      | Bottom Side | 10mm | Ant 0 | DSI 5 | 9400   | 1880   | 1 | 18.28 | 19.40 | 1.294 | - | - | 0.08  | 0.445 | 0.576 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49  | -                 | Front       | 10mm | Ant 3 | DSI 5 | 18900  | 1880   | 1 | 17.72 | 18.30 | 1.143 | - | - | -0.03 | 0.161 | 0.184 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49  | -                 | Back        | 10mm | Ant 3 | DSI 5 | 18900  | 1880   | 1 | 17.72 | 18.30 | 1.143 | - | - | 0.16  | 0.313 | 0.358 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49  | -                 | Left Side   | 10mm | Ant 3 | DSI 5 | 18900  | 1880   | 1 | 17.72 | 18.30 | 1.143 | - | - | 0.03  | 0.054 | 0.062 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49  | -                 | Top Side    | 10mm | Ant 3 | DSI 5 | 18900  | 1880   | 1 | 17.72 | 18.30 | 1.143 | - | - | 0.03  | 0.311 | 0.355 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24  | -                 | Front       | 10mm | Ant 3 | DSI 5 | 18900  | 1880   | 1 | 17.65 | 18.30 | 1.161 | - | - | 0.04  | 0.164 | 0.190 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24  | -                 | Back        | 10mm | Ant 3 | DSI 5 | 18900  | 1880   | 1 | 17.65 | 18.30 | 1.161 | - | - | 0.04  | 0.353 | 0.410 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24  | -                 | Left Side   | 10mm | Ant 3 | DSI 5 | 18900  | 1880   | 1 | 17.65 | 18.30 | 1.161 | - | - | 0.07  | 0.057 | 0.066 |
|         | LTE Band 2 | 20M | QPSK | 50  | 24  | -                 | Top Side    | 10mm | Ant 3 | DSI 5 | 18900  | 1880   | 1 | 17.65 | 18.30 | 1.161 | - | - | 0.09  | 0.321 | 0.373 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49  | -                 | Front       | 10mm | Ant 0 | DSI 5 | 18900  | 1880   | 1 | 18.02 | 18.80 | 1.197 | - | - | -0.07 | 0.231 | 0.276 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49  | -                 | Back        | 10mm | Ant 0 | DSI 5 | 18900  | 1880   | 1 | 18.02 | 18.80 | 1.197 | - | - | -0.03 | 0.421 | 0.504 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49  | -                 | Left Side   | 10mm | Ant 0 | DSI 5 | 18900  | 1880   | 1 | 18.02 | 18.80 | 1.197 | - | - | -0.06 | 0.195 | 0.233 |
|         | LTE Band 2 | 20M | QPSK | 1   | 49  | -                 | Bottom Side | 10mm | Ant 0 | DSI 5 | 18900  | 1880   | 1 | 18.02 | 18.80 | 1.197 | - | - | -0.04 | 0.405 | 0.485 |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |    |    |        |             |      |       |       |             |             |   |       |       |       |      |       |       |       |       |
|---------|-------------|-----|------|----|----|--------|-------------|------|-------|-------|-------------|-------------|---|-------|-------|-------|------|-------|-------|-------|-------|
|         | LTE Band 2  | 20M | QPSK | 50 | 24 | -      | Front       | 10mm | Ant 0 | DSI 5 | 18900       | 1880        | 1 | 17.99 | 18.80 | 1.205 | -    | -     | 0.13  | 0.230 | 0.277 |
| 38      | LTE Band 2  | 20M | QPSK | 50 | 24 | -      | Back        | 10mm | Ant 0 | DSI 5 | 18900       | 1880        | 1 | 17.99 | 18.80 | 1.205 | -    | -     | -0.12 | 0.422 | 0.509 |
|         | LTE Band 2  | 20M | QPSK | 50 | 24 | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 18900       | 1880        | 1 | 17.99 | 18.80 | 1.205 | -    | -     | 0.08  | 0.196 | 0.236 |
|         | LTE Band 2  | 20M | QPSK | 50 | 24 | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 18900       | 1880        | 1 | 17.99 | 18.80 | 1.205 | -    | -     | -0.13 | 0.412 | 0.496 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Front       | 10mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 18.01 | 18.70 | 1.172 | -    | -     | -0.17 | 0.170 | 0.199 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Back        | 10mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 18.01 | 18.70 | 1.172 | -    | -     | 0.06  | 0.350 | 0.410 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Left Side   | 10mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 18.01 | 18.70 | 1.172 | -    | -     | 0.02  | 0.067 | 0.079 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Top Side    | 10mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 18.01 | 18.70 | 1.172 | -    | -     | 0.01  | 0.345 | 0.404 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Front       | 10mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 17.96 | 18.70 | 1.186 | -    | -     | -0.13 | 0.174 | 0.206 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Back        | 10mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 17.96 | 18.70 | 1.186 | -    | -     | 0.01  | 0.375 | 0.445 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Left Side   | 10mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 17.96 | 18.70 | 1.186 | -    | -     | 0.19  | 0.069 | 0.082 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Top Side    | 10mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 17.96 | 18.70 | 1.186 | -    | -     | -0.11 | 0.346 | 0.410 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Front       | 10mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.56 | 19.20 | 1.459 | -    | -     | 0.16  | 0.260 | 0.379 |
| 39      | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Back        | 10mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.56 | 19.20 | 1.459 | -    | -     | -0.07 | 0.455 | 0.664 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Left Side   | 10mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.56 | 19.20 | 1.459 | -    | -     | -0.03 | 0.197 | 0.287 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Bottom Side | 10mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.56 | 19.20 | 1.459 | -    | -     | 0.15  | 0.427 | 0.623 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Front       | 10mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.54 | 19.20 | 1.466 | -    | -     | 0.14  | 0.256 | 0.375 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Back        | 10mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.54 | 19.20 | 1.466 | -    | -     | -0.17 | 0.436 | 0.639 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Left Side   | 10mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.54 | 19.20 | 1.466 | -    | -     | -0.18 | 0.195 | 0.286 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Bottom Side | 10mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.54 | 19.20 | 1.466 | -    | -     | -0.04 | 0.416 | 0.610 |
| 2600MHz |             |     |      |    |    |        |             |      |       |       |             |             |   |       |       |       |      |       |       |       |       |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front       | 10mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.70 | 16.80 | 1.288 | -    | -     | -0.05 | 0.099 | 0.128 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back        | 10mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.70 | 16.80 | 1.288 | -    | -     | 0.11  | 0.176 | 0.227 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.70 | 16.80 | 1.288 | -    | -     | 0.13  | 0.038 | 0.049 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.70 | 16.80 | 1.288 | -    | -     | -0.08 | 0.199 | 0.256 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front       | 10mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.67 | 16.80 | 1.297 | -    | -     | 0.06  | 0.107 | 0.139 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back        | 10mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.67 | 16.80 | 1.297 | -    | -     | -0.19 | 0.179 | 0.232 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.67 | 16.80 | 1.297 | -    | -     | 0.02  | 0.038 | 0.049 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.67 | 16.80 | 1.297 | -    | -     | -0.14 | 0.210 | 0.272 |
|         | LTE Band 7C | 20M | QPSK | 50 | 24 | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 21100+20902 | 2535+2515.2 | 1 | 15.65 | 16.10 | 1.109 | -    | -     | -0.14 | 0.185 | 0.205 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front       | 10mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.78 | 19.30 | 1.127 | -    | -     | 0.08  | 0.267 | 0.301 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back        | 10mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.78 | 19.30 | 1.127 | -    | -     | 0.12  | 0.352 | 0.397 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.78 | 19.30 | 1.127 | -    | -     | 0.03  | 0.110 | 0.124 |
| 40      | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.78 | 19.30 | 1.127 | -    | -     | 0.09  | 0.687 | 0.774 |
|         | LTE Band 7C | 20M | QPSK | 1  | 49 | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 21100+20902 | 2535+2515.2 | 1 | 18.52 | 18.60 | 1.019 | -    | -     | 0.09  | 0.581 | 0.592 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front       | 10mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.74 | 19.30 | 1.138 | -    | -     | 0.03  | 0.253 | 0.288 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back        | 10mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.74 | 19.30 | 1.138 | -    | -     | 0.14  | 0.331 | 0.377 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.74 | 19.30 | 1.138 | -    | -     | 0.05  | 0.106 | 0.121 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.74 | 19.30 | 1.138 | -    | -     | -0.08 | 0.553 | 0.629 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front       | 10mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.09 | 18.30 | 1.321 | -    | -     | 0.01  | 0.066 | 0.087 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back        | 10mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.09 | 18.30 | 1.321 | -    | -     | -0.03 | 0.187 | 0.247 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.09 | 18.30 | 1.321 | -    | -     | 0.17  | 0.179 | 0.237 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.09 | 18.30 | 1.321 | -    | -     | 0.06  | 0.041 | 0.054 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front       | 10mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.08 | 18.30 | 1.324 | -    | -     | 0.12  | 0.069 | 0.091 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back        | 10mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.08 | 18.30 | 1.324 | -    | -     | -0.19 | 0.189 | 0.250 |
|         | LTE Band 7C | 20M | QPSK | 50 | 24 | -      | Back        | 10mm | Ant 4 | DSI 5 | 21100+20902 | 2535+2515.2 | 1 | 17.05 | 17.60 | 1.135 | -    | -     | -0.19 | 0.160 | 0.181 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.08 | 18.30 | 1.324 | -    | -     | 0.18  | 0.187 | 0.248 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.08 | 18.30 | 1.324 | -    | -     | -0.19 | 0.043 | 0.057 |
|         | LTE Band 38 | 20M | QPSK | 1  | 49 | -      | Front       | 10mm | Ant 3 | DSI 5 | 38000       | 2595        | 1 | 18.29 | 19.40 | 1.291 | 62.9 | 1.006 | -0.05 | 0.122 | 0.158 |
|         | LTE Band 38 | 20M | QPSK | 1  | 49 | -      | Back        | 10mm | Ant 3 | DSI 5 | 38000       | 2595        | 1 | 18.29 | 19.40 | 1.291 | 62.9 | 1.006 | -0.04 | 0.216 | 0.281 |
|         | LTE Band 38 | 20M | QPSK | 1  | 49 | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 38000       | 2595        | 1 | 18.29 | 19.40 | 1.291 | 62.9 | 1.006 | -0.13 | 0.052 | 0.068 |
|         | LTE Band 38 | 20M | QPSK | 1  | 49 | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 38000       | 2595        | 1 | 18.29 | 19.40 | 1.291 | 62.9 | 1.006 | -0.11 | 0.305 | 0.396 |
|         | LTE Band 38 | 20M | QPSK | 50 | 24 | -      | Front       | 10mm | Ant 3 | DSI 5 | 38000       | 2595        | 1 | 18.24 | 19.40 | 1.306 | 62.9 | 1.006 | 0.1   | 0.123 | 0.162 |
|         | LTE Band 38 | 20M | QPSK | 50 | 24 | -      | Back        | 10mm | Ant 3 | DSI 5 | 38000       | 2595        | 1 | 18.24 | 19.40 | 1.306 | 62.9 | 1.006 | 0.06  | 0.221 | 0.290 |
|         | LTE Band 38 | 20M | QPSK | 50 | 24 | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 38000       | 2595        | 1 | 18.24 | 19.40 | 1.306 | 62.9 | 1.006 | 0.02  | 0.053 | 0.070 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |                 |     |      |     |     |        |             |      |       |       |                 |                   |   |       |       |       |      |       |       |       |       |
|----|-----------------|-----|------|-----|-----|--------|-------------|------|-------|-------|-----------------|-------------------|---|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 38000           | 2595              | 1 | 18.24 | 19.40 | 1.306 | 62.9 | 1.006 | 0.06  | 0.350 | 0.460 |
|    | LTE Band 38C    | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 37901+<br>38099 | 2585.1+<br>2604.9 | 1 | 18.19 | 18.60 | 1.099 | 62.9 | 1.006 | 0.06  | 0.296 | 0.327 |
|    | LTE Band 38     | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 0 | DSI 5 | 38000           | 2595              | 1 | 22.05 | 22.40 | 1.084 | 62.9 | 1.006 | -0.09 | 0.157 | 0.171 |
|    | LTE Band 38     | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 0 | DSI 5 | 38000           | 2595              | 1 | 22.05 | 22.40 | 1.084 | 62.9 | 1.006 | -0.11 | 0.225 | 0.245 |
|    | LTE Band 38     | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 38000           | 2595              | 1 | 22.05 | 22.40 | 1.084 | 62.9 | 1.006 | 0.06  | 0.154 | 0.168 |
| 41 | LTE Band 38     | 20M | QPSK | 1   | 49  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 38000           | 2595              | 1 | 22.05 | 22.40 | 1.084 | 62.9 | 1.006 | 0.05  | 0.462 | 0.504 |
|    | LTE Band 38C    | 20M | QPSK | 1   | 49  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 37901+<br>38099 | 2585.1+<br>2604.9 | 1 | 21.49 | 21.60 | 1.026 | 62.9 | 1.006 | 0.05  | 0.391 | 0.403 |
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 0 | DSI 5 | 38000           | 2595              | 1 | 21.79 | 22.40 | 1.151 | 62.9 | 1.006 | 0.19  | 0.142 | 0.164 |
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 0 | DSI 5 | 38000           | 2595              | 1 | 21.79 | 22.40 | 1.151 | 62.9 | 1.006 | 0.1   | 0.208 | 0.241 |
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 38000           | 2595              | 1 | 21.79 | 22.40 | 1.151 | 62.9 | 1.006 | -0.01 | 0.138 | 0.160 |
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 38000           | 2595              | 1 | 21.79 | 22.40 | 1.151 | 62.9 | 1.006 | -0.19 | 0.425 | 0.492 |
|    | LTE Band 38     | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 4 | DSI 5 | 38000           | 2595              | 1 | 18.97 | 20.40 | 1.390 | 62.9 | 1.006 | 0.16  | 0.060 | 0.084 |
|    | LTE Band 38     | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 4 | DSI 5 | 38000           | 2595              | 1 | 18.97 | 20.40 | 1.390 | 62.9 | 1.006 | 0.19  | 0.160 | 0.224 |
|    | LTE Band 38     | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 38000           | 2595              | 1 | 18.97 | 20.40 | 1.390 | 62.9 | 1.006 | -0.16 | 0.137 | 0.192 |
|    | LTE Band 38     | 20M | QPSK | 1   | 49  | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 38000           | 2595              | 1 | 18.97 | 20.40 | 1.390 | 62.9 | 1.006 | -0.05 | 0.045 | 0.063 |
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 4 | DSI 5 | 38000           | 2595              | 1 | 18.85 | 20.40 | 1.429 | 62.9 | 1.006 | -0.16 | 0.064 | 0.092 |
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 4 | DSI 5 | 38000           | 2595              | 1 | 18.85 | 20.40 | 1.429 | 62.9 | 1.006 | 0.01  | 0.159 | 0.229 |
|    | LTE Band 38C    | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 4 | DSI 5 | 37901+<br>38099 | 2585.1+<br>2604.9 | 1 | 18.76 | 19.60 | 1.213 | 62.9 | 1.006 | 0.01  | 0.134 | 0.164 |
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 38000           | 2595              | 1 | 18.85 | 20.40 | 1.429 | 62.9 | 1.006 | -0.01 | 0.138 | 0.198 |
|    | LTE Band 38     | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 38000           | 2595              | 1 | 18.85 | 20.40 | 1.429 | 62.9 | 1.006 | 0.19  | 0.048 | 0.069 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | -0.08 | 0.081 | 0.096 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | -0.05 | 0.141 | 0.168 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | 0.05  | 0.040 | 0.048 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | 0.08  | 0.188 | 0.224 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | -0.04 | 0.085 | 0.104 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | -0.04 | 0.146 | 0.178 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | -     | 0.042 | 0.051 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | -0.08 | 0.184 | 0.225 |
|    | LTE Band 41C    | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 40620+<br>40422 | 2593+<br>2573.2   | 1 | 16.86 | 17.30 | 1.107 | 62.9 | 1.006 | -0.08 | 0.156 | 0.173 |
|    | LTE Band 41 PC2 | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 40620           | 2593              | 1 | 19.87 | 20.80 | 1.239 | 42.9 | 1.009 | -0.17 | 0.253 | 0.316 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 20.59 | 20.80 | 1.050 | 62.9 | 1.006 | 0.07  | 0.187 | 0.197 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 20.59 | 20.80 | 1.050 | 62.9 | 1.006 | 0.09  | 0.198 | 0.209 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 20.59 | 20.80 | 1.050 | 62.9 | 1.006 | 0.15  | 0.127 | 0.134 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 20.59 | 20.80 | 1.050 | 62.9 | 1.006 | 0.11  | 0.379 | 0.400 |
|    | LTE Band 41C    | 20M | QPSK | 1   | 49  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 40620+<br>40422 | 2593+<br>2573.2   | 1 | 20.11 | 20.30 | 1.045 | 62.9 | 1.006 | 0.02  | 0.321 | 0.337 |
| 42 | LTE Band 41 PC2 | 20M | QPSK | 1   | 49  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 23.71 | 23.80 | 1.021 | 42.9 | 1.009 | 0.11  | 0.534 | 0.550 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 20.50 | 20.80 | 1.072 | 62.9 | 1.006 | -0.14 | 0.174 | 0.188 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 20.50 | 20.80 | 1.072 | 62.9 | 1.006 | 0.18  | 0.191 | 0.206 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 20.50 | 20.80 | 1.072 | 62.9 | 1.006 | -0.11 | 0.121 | 0.130 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 40620           | 2593              | 1 | 20.50 | 20.80 | 1.072 | 62.9 | 1.006 | -0.03 | 0.356 | 0.384 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 18.14 | 18.80 | 1.164 | 62.9 | 1.006 | -0.16 | 0.053 | 0.062 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 18.14 | 18.80 | 1.164 | 62.9 | 1.006 | 0.1   | 0.149 | 0.174 |
|    | LTE Band 41C    | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 4 | DSI 5 | 40620+<br>40422 | 2593+<br>2573.2   | 1 | 17.34 | 18.30 | 1.247 | 62.9 | 1.006 | -0.09 | 0.118 | 0.148 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 18.14 | 18.80 | 1.164 | 62.9 | 1.006 | 0.08  | 0.125 | 0.146 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 18.14 | 18.80 | 1.164 | 62.9 | 1.006 | -0.09 | 0.045 | 0.053 |
|    | LTE Band 41 PC2 | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 20.72 | 21.80 | 1.282 | 42.9 | 1.009 | 0.19  | 0.182 | 0.235 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 18.11 | 18.80 | 1.172 | 62.9 | 1.006 | -0.09 | 0.051 | 0.060 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 18.11 | 18.80 | 1.172 | 62.9 | 1.006 | -0.11 | 0.135 | 0.159 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 18.11 | 18.80 | 1.172 | 62.9 | 1.006 | -0.01 | 0.122 | 0.144 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 40620           | 2593              | 1 | 18.11 | 18.80 | 1.172 | 62.9 | 1.006 | 0.18  | 0.044 | 0.052 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 3 | DSI 5 | 507000          | 2535              | 1 | 15.65 | 16.20 | 1.135 | -    | -     | -0.1  | 0.116 | 0.132 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 3 | DSI 5 | 507000          | 2535              | 1 | 15.65 | 16.20 | 1.135 | -    | -     | -0.04 | 0.199 | 0.226 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 3 | DSI 5 | 507000          | 2535              | 1 | 15.65 | 16.20 | 1.135 | -    | -     | 0.16  | 0.045 | 0.051 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Top Side    | 10mm | Ant 3 | DSI 5 | 507000          | 2535              | 1 | 15.65 | 16.20 | 1.135 | -    | -     | -0.04 | 0.227 | 0.258 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 3 | DSI 5 | 507000          | 2535              | 1 | 15.63 | 16.20 | 1.140 | -    | -     | 0.11  | 0.118 | 0.135 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |             |      |      |     |     |        |             |      |       |       |        |         |   |       |       |       |   |   |       |       |       |
|----|-------------|------|------|-----|-----|--------|-------------|------|-------|-------|--------|---------|---|-------|-------|-------|---|---|-------|-------|-------|
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 3 | DSI 5 | 507000 | 2535    | 1 | 15.63 | 16.20 | 1.140 | - | - | -0.06 | 0.201 | 0.229 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 3 | DSI 5 | 507000 | 2535    | 1 | 15.63 | 16.20 | 1.140 | - | - | 0.03  | 0.045 | 0.051 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Top Side    | 10mm | Ant 3 | DSI 5 | 507000 | 2535    | 1 | 15.63 | 16.20 | 1.140 | - | - | -0.13 | 0.226 | 0.258 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 0 | DSI 5 | 507000 | 2535    | 1 | 17.57 | 18.20 | 1.156 | - | - | -0.01 | 0.233 | 0.269 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 0 | DSI 5 | 507000 | 2535    | 1 | 17.57 | 18.20 | 1.156 | - | - | 0.05  | 0.317 | 0.366 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 0 | DSI 5 | 507000 | 2535    | 1 | 17.57 | 18.20 | 1.156 | - | - | -0.09 | 0.120 | 0.139 |
| 43 | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Bottom Side | 10mm | Ant 0 | DSI 5 | 507000 | 2535    | 1 | 17.57 | 18.20 | 1.156 | - | - | 0.11  | 0.636 | 0.735 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 0 | DSI 5 | 507000 | 2535    | 1 | 17.56 | 18.20 | 1.159 | - | - | -0.07 | 0.231 | 0.268 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 0 | DSI 5 | 507000 | 2535    | 1 | 17.56 | 18.20 | 1.159 | - | - | 0.17  | 0.315 | 0.365 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 0 | DSI 5 | 507000 | 2535    | 1 | 17.56 | 18.20 | 1.159 | - | - | -0.03 | 0.114 | 0.132 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Bottom Side | 10mm | Ant 0 | DSI 5 | 507000 | 2535    | 1 | 17.56 | 18.20 | 1.159 | - | - | 0.03  | 0.594 | 0.688 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 4 | DSI 5 | 507000 | 2535    | 1 | 16.66 | 17.70 | 1.271 | - | - | -0.09 | 0.070 | 0.089 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 4 | DSI 5 | 507000 | 2535    | 1 | 16.66 | 17.70 | 1.271 | - | - | 0.14  | 0.198 | 0.252 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 4 | DSI 5 | 507000 | 2535    | 1 | 16.66 | 17.70 | 1.271 | - | - | 0.19  | 0.192 | 0.244 |
|    | FR1 n7      | 40M  | QPSK | 1   | 108 | DFT-15 | Top Side    | 10mm | Ant 4 | DSI 5 | 507000 | 2535    | 1 | 16.66 | 17.70 | 1.271 | - | - | -0.08 | 0.050 | 0.064 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 4 | DSI 5 | 507000 | 2535    | 1 | 16.63 | 17.70 | 1.279 | - | - | -0.16 | 0.073 | 0.093 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 4 | DSI 5 | 507000 | 2535    | 1 | 16.63 | 17.70 | 1.279 | - | - | -0.01 | 0.202 | 0.258 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 4 | DSI 5 | 507000 | 2535    | 1 | 16.63 | 17.70 | 1.279 | - | - | -0.11 | 0.200 | 0.256 |
|    | FR1 n7      | 40M  | QPSK | 108 | 54  | DFT-15 | Top Side    | 10mm | Ant 4 | DSI 5 | 507000 | 2535    | 1 | 16.63 | 17.70 | 1.279 | - | - | 0.01  | 0.056 | 0.072 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Front       | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 15.64 | 17.20 | 1.432 | - | - | 0.11  | 0.129 | 0.185 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Back        | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 15.64 | 17.20 | 1.432 | - | - | 0.09  | 0.221 | 0.317 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Side   | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 15.64 | 17.20 | 1.432 | - | - | 0.16  | 0.050 | 0.072 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Top Side    | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 15.64 | 17.20 | 1.432 | - | - | -0.06 | 0.265 | 0.380 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Front       | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 15.59 | 17.20 | 1.449 | - | - | 0.13  | 0.121 | 0.175 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Back        | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 15.59 | 17.20 | 1.449 | - | - | 0.15  | 0.218 | 0.316 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Side   | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 15.59 | 17.20 | 1.449 | - | - | -0.03 | 0.050 | 0.072 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Top Side    | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 15.59 | 17.20 | 1.449 | - | - | 0     | 0.259 | 0.375 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Front       | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 18.12 | 19.70 | 1.439 | - | - | 0.15  | 0.219 | 0.315 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Back        | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 18.12 | 19.70 | 1.439 | - | - | -0.19 | 0.225 | 0.324 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Side   | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 18.12 | 19.70 | 1.439 | - | - | 0.14  | 0.211 | 0.304 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 18.12 | 19.70 | 1.439 | - | - | -0.03 | 0.393 | 0.565 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Front       | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 18.08 | 19.70 | 1.452 | - | - | -0.18 | 0.219 | 0.318 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Back        | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 18.08 | 19.70 | 1.452 | - | - | 0.11  | 0.230 | 0.334 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Side   | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 18.08 | 19.70 | 1.452 | - | - | 0.03  | 0.213 | 0.309 |
| 44 | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 18.08 | 19.70 | 1.452 | - | - | -0.09 | 0.449 | 0.652 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Front       | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.94 | 17.70 | 1.500 | - | - | 0.01  | 0.057 | 0.085 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Back        | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.94 | 17.70 | 1.500 | - | - | 0.01  | 0.149 | 0.223 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Side   | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.94 | 17.70 | 1.500 | - | - | 0.09  | 0.126 | 0.189 |
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Top Side    | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.94 | 17.70 | 1.500 | - | - | -0.05 | 0.047 | 0.070 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Front       | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.90 | 17.70 | 1.514 | - | - | 0.01  | 0.054 | 0.082 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Back        | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.90 | 17.70 | 1.514 | - | - | -0.19 | 0.143 | 0.216 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Side   | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.90 | 17.70 | 1.514 | - | - | 0.1   | 0.120 | 0.182 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Top Side    | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.90 | 17.70 | 1.514 | - | - | 0.18  | 0.044 | 0.067 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front       | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.59 | 17.70 | 1.291 | - | - | -0.17 | 0.137 | 0.177 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back        | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.59 | 17.70 | 1.291 | - | - | -0.1  | 0.227 | 0.293 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Side   | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.59 | 17.70 | 1.291 | - | - | 0.16  | 0.056 | 0.072 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Top Side    | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.59 | 17.70 | 1.291 | - | - | -0.02 | 0.374 | 0.483 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front       | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.50 | 17.70 | 1.318 | - | - | 0.11  | 0.148 | 0.195 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back        | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.50 | 17.70 | 1.318 | - | - | 0.16  | 0.235 | 0.310 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Side   | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.50 | 17.70 | 1.318 | - | - | -0.14 | 0.058 | 0.076 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Top Side    | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.50 | 17.70 | 1.318 | - | - | -0.1  | 0.452 | 0.596 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front       | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | -0.09 | 0.273 | 0.420 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back        | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | -0.14 | 0.322 | 0.495 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Side   | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | 0.09  | 0.268 | 0.412 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | 0.18  | 0.441 | 0.678 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front       | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.21 | 20.20 | 1.581 | - | - | -0.1  | 0.288 | 0.455 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |             |      |      |     |     |        |             |      |       |       |               |   |       |       |       |   |   |       |       |       |
|----|-------------|------|------|-----|-----|--------|-------------|------|-------|-------|---------------|---|-------|-------|-------|---|---|-------|-------|-------|
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back        | 10mm | Ant 0 | DSI 5 | 5185982592.99 | 1 | 18.21 | 20.20 | 1.581 | - | - | 0.16  | 0.334 | 0.528 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Side   | 10mm | Ant 0 | DSI 5 | 5185982592.99 | 1 | 18.21 | 20.20 | 1.581 | - | - | -0.13 | 0.272 | 0.430 |
| 45 | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 5185982592.99 | 1 | 18.21 | 20.20 | 1.581 | - | - | 0.07  | 0.549 | 0.868 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 5185982592.99 | 2 | 18.21 | 20.20 | 1.581 | - | - | 0.03  | 0.521 | 0.824 |
|    | FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 5185982592.99 | 1 | 18.20 | 20.20 | 1.585 | - | - | 0.03  | 0.398 | 0.631 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front       | 10mm | Ant 4 | DSI 5 | 5185982592.99 | 1 | 16.95 | 18.70 | 1.496 | - | - | 0.02  | 0.083 | 0.124 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back        | 10mm | Ant 4 | DSI 5 | 5185982592.99 | 1 | 16.95 | 18.70 | 1.496 | - | - | -0.16 | 0.215 | 0.322 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Side   | 10mm | Ant 4 | DSI 5 | 5185982592.99 | 1 | 16.95 | 18.70 | 1.496 | - | - | 0.09  | 0.188 | 0.281 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Top Side    | 10mm | Ant 4 | DSI 5 | 5185982592.99 | 1 | 16.95 | 18.70 | 1.496 | - | - | -0.09 | 0.064 | 0.096 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front       | 10mm | Ant 4 | DSI 5 | 5185982592.99 | 1 | 16.92 | 18.70 | 1.507 | - | - | -0.04 | 0.080 | 0.121 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back        | 10mm | Ant 4 | DSI 5 | 5185982592.99 | 1 | 16.92 | 18.70 | 1.507 | - | - | -0.14 | 0.209 | 0.315 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Side   | 10mm | Ant 4 | DSI 5 | 5185982592.99 | 1 | 16.92 | 18.70 | 1.507 | - | - | -0.12 | 0.185 | 0.279 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Top Side    | 10mm | Ant 4 | DSI 5 | 5185982592.99 | 1 | 16.92 | 18.70 | 1.507 | - | - | 0.01  | 0.063 | 0.095 |



&lt;ENDC&gt;

| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Antenna | Power State | Ch.    | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|--------|---------------|----------|---------|-------------|--------|-------------|--------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 750MHz   |             |          |            |         |           |        |               |          |         |             |        |             |        |                     |                     |                        |                  |                        |                        |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Front         | 10mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 1      | 18.82               | 19.20               | 1.091                  | -0.02            | 0.098                  | 0.107                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Back          | 10mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 1      | 18.82               | 19.20               | 1.091                  | -0.09            | 0.162                  | 0.177                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Left Side     | 10mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 1      | 18.82               | 19.20               | 1.091                  | 0.14             | 0.273                  | 0.298                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Front         | 10mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 1      | 18.75               | 19.20               | 1.109                  | 0.19             | 0.096                  | 0.106                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Back          | 10mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 1      | 18.75               | 19.20               | 1.109                  | 0.13             | 0.155                  | 0.172                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Left Side     | 10mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 1      | 18.75               | 19.20               | 1.109                  | 0.07             | 0.242                  | 0.268                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Front         | 10mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 1      | 20.28               | 21.70               | 1.387                  | 0.16             | 0.051                  | 0.071                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Back          | 10mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 1      | 20.28               | 21.70               | 1.387                  | -0.02            | 0.073                  | 0.101                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Left Side     | 10mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 1      | 20.28               | 21.70               | 1.387                  | -0.11            | 0.058                  | 0.080                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 1      | 20.28               | 21.70               | 1.387                  | 0.08             | 0.042                  | 0.058                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Front         | 10mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 1      | 20.25               | 21.70               | 1.396                  | -0.01            | 0.046                  | 0.064                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Back          | 10mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 1      | 20.25               | 21.70               | 1.396                  | 0.11             | 0.057                  | 0.080                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Left Side     | 10mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 1      | 20.25               | 21.70               | 1.396                  | -0.06            | 0.046                  | 0.064                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 1      | 20.25               | 21.70               | 1.396                  | 0.19             | 0.030                  | 0.042                  |
| 835MHz   |             |          |            |         |           |        |               |          |         |             |        |             |        |                     |                     |                        |                  |                        |                        |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Front         | 10mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 1      | 16.72               | 17.00               | 1.067                  | 0.12             | 0.157                  | 0.167                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Back          | 10mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 1      | 16.72               | 17.00               | 1.067                  | -0.11            | 0.225                  | 0.240                  |
| 46       | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Left Side     | 10mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 1      | 16.72               | 17.00               | 1.067                  | -0.04            | 0.283                  | 0.302                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Front         | 10mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 1      | 16.66               | 17.00               | 1.081                  | -0.03            | 0.137                  | 0.148                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Back          | 10mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 1      | 16.66               | 17.00               | 1.081                  | 0.02             | 0.211                  | 0.228                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Left Side     | 10mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 1      | 16.66               | 17.00               | 1.081                  | -0.12            | 0.225                  | 0.243                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Front         | 10mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 1      | 19.22               | 20.50               | 1.343                  | -0.12            | 0.081                  | 0.109                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Back          | 10mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 1      | 19.22               | 20.50               | 1.343                  | 0.05             | 0.137                  | 0.184                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Left Side     | 10mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 1      | 19.22               | 20.50               | 1.343                  | 0.15             | 0.059                  | 0.079                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 1      | 19.22               | 20.50               | 1.343                  | -0.19            | 0.097                  | 0.130                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Front         | 10mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 1      | 19.20               | 20.50               | 1.349                  | 0.16             | 0.101                  | 0.136                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Back          | 10mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 1      | 19.20               | 20.50               | 1.349                  | -0.04            | 0.168                  | 0.227                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Left Side     | 10mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 1      | 19.20               | 20.50               | 1.349                  | -0.12            | 0.077                  | 0.104                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 1      | 19.20               | 20.50               | 1.349                  | 0.17             | 0.120                  | 0.162                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Front         | 10mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 1      | 16.42               | 17.70               | 1.343                  | -0.07            | 0.148                  | 0.199                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Back          | 10mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 1      | 16.42               | 17.70               | 1.343                  | 0.12             | 0.210                  | 0.282                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Left Side     | 10mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 1      | 16.42               | 17.70               | 1.343                  | 0.19             | 0.284                  | 0.381                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 10mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 1      | 16.36               | 17.70               | 1.361                  | 0.12             | 0.151                  | 0.206                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 10mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 1      | 16.36               | 17.70               | 1.361                  | -0.08            | 0.212                  | 0.289                  |
| 47       | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 10mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 1      | 16.36               | 17.70               | 1.361                  | 0.16             | 0.287                  | 0.391                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Front         | 10mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 1      | 18.64               | 20.20               | 1.432                  | 0.14             | 0.068                  | 0.097                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Back          | 10mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 1      | 18.64               | 20.20               | 1.432                  | 0.04             | 0.114                  | 0.163                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Left Side     | 10mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 1      | 18.64               | 20.20               | 1.432                  | 0.08             | 0.056                  | 0.080                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 1      | 18.64               | 20.20               | 1.432                  | 0.03             | 0.074                  | 0.106                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 10mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 1      | 18.43               | 20.20               | 1.503                  | -0.16            | 0.056                  | 0.084                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 10mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 1      | 18.43               | 20.20               | 1.503                  | 0.16             | 0.104                  | 0.156                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 10mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 1      | 18.43               | 20.20               | 1.503                  | 0.13             | 0.047                  | 0.071                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Bottom Side   | 10mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 1      | 18.43               | 20.20               | 1.503                  | 0.06             | 0.069                  | 0.104                  |
| 1750MHz  |             |          |            |         |           |        |               |          |         |             |        |             |        |                     |                     |                        |                  |                        |                        |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 49        | -      | Front         | 10mm     | Ant 3   | DSI 5       | 132322 | 1745        | 1      | 16.78               | 17.30               | 1.127                  | 0.16             | 0.086                  | 0.097                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 49        | -      | Back          | 10mm     | Ant 3   | DSI 5       | 132322 | 1745        | 1      | 16.78               | 17.30               | 1.127                  | 0.07             | 0.156                  | 0.176                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 49        | -      | Left Side     | 10mm     | Ant 3   | DSI 5       | 132322 | 1745        | 1      | 16.78               | 17.30               | 1.127                  | -0.19            | 0.030                  | 0.034                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 49        | -      | Top Side      | 10mm     | Ant 3   | DSI 5       | 132322 | 1745        | 1      | 16.78               | 17.30               | 1.127                  | 0.12             | 0.154                  | 0.174                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 24        | -      | Front         | 10mm     | Ant 3   | DSI 5       | 132322 | 1745        | 1      | 16.75               | 17.30               | 1.135                  | -0.18            | 0.088                  | 0.100                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 24        | -      | Back          | 10mm     | Ant 3   | DSI 5       | 132322 | 1745        | 1      | 16.75               | 17.30               | 1.135                  | 0.19             | 0.158                  | 0.179                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 24        | -      | Left Side     | 10mm     | Ant 3   | DSI 5       | 132322 | 1745        | 1      | 16.75               | 17.30               | 1.135                  | -0.19            | 0.031                  | 0.035                  |
|          | LTE Band 66 | 20M      | QPSK       | 50      | 24        | -      | Top Side      | 10mm     | Ant 3   | DSI 5       | 132322 | 1745        | 1      | 16.75               | 17.30               | 1.135                  | -0.05            | 0.156                  | 0.177                  |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |     |     |        |             |      |       |       |        |      |   |       |       |       |       |       |       |
|---------|-------------|-----|------|-----|-----|--------|-------------|------|-------|-------|--------|------|---|-------|-------|-------|-------|-------|-------|
|         | LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 0 | DSI 5 | 132322 | 1745 | 1 | 15.16 | 16.30 | 1.300 | 0.05  | 0.131 | 0.170 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 0 | DSI 5 | 132322 | 1745 | 1 | 15.16 | 16.30 | 1.300 | -0.14 | 0.229 | 0.298 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 132322 | 1745 | 1 | 15.16 | 16.30 | 1.300 | -0.05 | 0.097 | 0.126 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 132322 | 1745 | 1 | 15.16 | 16.30 | 1.300 | 0.07  | 0.182 | 0.237 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 0 | DSI 5 | 132322 | 1745 | 1 | 15.11 | 16.30 | 1.315 | -0.07 | 0.136 | 0.179 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 0 | DSI 5 | 132322 | 1745 | 1 | 15.11 | 16.30 | 1.315 | -0.09 | 0.244 | 0.321 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 132322 | 1745 | 1 | 15.11 | 16.30 | 1.315 | 0.12  | 0.101 | 0.133 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 132322 | 1745 | 1 | 15.11 | 16.30 | 1.315 | -0.11 | 0.188 | 0.247 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 16.59 | 16.80 | 1.050 | -0.01 | 0.074 | 0.078 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 16.59 | 16.80 | 1.050 | -0.19 | 0.154 | 0.162 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 16.59 | 16.80 | 1.050 | 0.01  | 0.151 | 0.158 |
|         | LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 16.59 | 16.80 | 1.050 | 0.13  | 0.022 | 0.023 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 16.56 | 16.80 | 1.057 | -0.18 | 0.071 | 0.075 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 16.56 | 16.80 | 1.057 | -0.1  | 0.148 | 0.156 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 16.56 | 16.80 | 1.057 | 0.16  | 0.144 | 0.152 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 16.56 | 16.80 | 1.057 | -0.07 | 0.021 | 0.022 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 16.74 | 18.20 | 1.400 | -0.19 | 0.126 | 0.176 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 16.74 | 18.20 | 1.400 | 0     | 0.232 | 0.325 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 16.74 | 18.20 | 1.400 | 0.04  | 0.048 | 0.067 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Top Side    | 10mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 16.74 | 18.20 | 1.400 | 0.12  | 0.226 | 0.316 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 16.70 | 18.20 | 1.413 | 0.07  | 0.141 | 0.199 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 16.70 | 18.20 | 1.413 | 0.02  | 0.252 | 0.356 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 16.70 | 18.20 | 1.413 | -0.02 | 0.049 | 0.069 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Top Side    | 10mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 16.70 | 18.20 | 1.413 | -0.11 | 0.240 | 0.339 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 15.62 | 16.70 | 1.282 | 0.04  | 0.164 | 0.210 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 15.62 | 16.70 | 1.282 | 0.03  | 0.252 | 0.323 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 15.62 | 16.70 | 1.282 | -0.09 | 0.115 | 0.147 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Bottom Side | 10mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 15.62 | 16.70 | 1.282 | 0.03  | 0.234 | 0.300 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 15.56 | 16.70 | 1.300 | 0.16  | 0.165 | 0.215 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 15.56 | 16.70 | 1.300 | -0.18 | 0.260 | 0.338 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 15.56 | 16.70 | 1.300 | 0.02  | 0.119 | 0.155 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Bottom Side | 10mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 15.56 | 16.70 | 1.300 | 0.17  | 0.248 | 0.322 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 15.92 | 17.20 | 1.343 | -0.09 | 0.081 | 0.109 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 15.92 | 17.20 | 1.343 | -0.15 | 0.176 | 0.236 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 15.92 | 17.20 | 1.343 | 0.14  | 0.167 | 0.224 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Top Side    | 10mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 15.92 | 17.20 | 1.343 | 0.12  | 0.033 | 0.044 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 15.88 | 17.20 | 1.355 | -0.13 | 0.085 | 0.115 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 15.88 | 17.20 | 1.355 | -0.11 | 0.184 | 0.249 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 15.88 | 17.20 | 1.355 | 0.03  | 0.170 | 0.230 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Top Side    | 10mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 15.88 | 17.20 | 1.355 | -0.12 | 0.035 | 0.047 |
| 1900MHz |             |     |      |     |     |        |             |      |       |       |        |      |   |       |       |       |       |       |       |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 14.72 | 15.30 | 1.143 | -0.03 | 0.081 | 0.093 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 14.72 | 15.30 | 1.143 | 0.16  | 0.157 | 0.179 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 14.72 | 15.30 | 1.143 | 0.03  | 0.027 | 0.031 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 14.72 | 15.30 | 1.143 | 0.03  | 0.156 | 0.178 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 14.65 | 15.30 | 1.161 | 0.04  | 0.082 | 0.095 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 14.65 | 15.30 | 1.161 | 0.04  | 0.177 | 0.206 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 14.65 | 15.30 | 1.161 | 0.07  | 0.029 | 0.034 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 14.65 | 15.30 | 1.161 | 0.09  | 0.161 | 0.187 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 0 | DSI 5 | 18900  | 1880 | 1 | 15.02 | 15.80 | 1.197 | -0.07 | 0.116 | 0.139 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 0 | DSI 5 | 18900  | 1880 | 1 | 15.02 | 15.80 | 1.197 | -0.03 | 0.211 | 0.253 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 18900  | 1880 | 1 | 15.02 | 15.80 | 1.197 | -0.06 | 0.098 | 0.117 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 18900  | 1880 | 1 | 15.02 | 15.80 | 1.197 | -0.04 | 0.203 | 0.243 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 0 | DSI 5 | 18900  | 1880 | 1 | 14.95 | 15.80 | 1.216 | 0.13  | 0.115 | 0.140 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 0 | DSI 5 | 18900  | 1880 | 1 | 14.95 | 15.80 | 1.216 | -0.12 | 0.212 | 0.258 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 18900  | 1880 | 1 | 14.95 | 15.80 | 1.216 | 0.08  | 0.098 | 0.119 |



# FCC SAR Test Report

Report No. : FA3O3018

|         |            |     |      |     |     |        |             |      |       |       |        |      |   |       |       |       |       |       |       |
|---------|------------|-----|------|-----|-----|--------|-------------|------|-------|-------|--------|------|---|-------|-------|-------|-------|-------|-------|
|         | LTE Band 2 | 20M | QPSK | 50  | 24  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 18900  | 1880 | 1 | 14.95 | 15.80 | 1.216 | -0.13 | 0.206 | 0.251 |
| 2600MHz |            |     |      |     |     |        |             |      |       |       |        |      |   |       |       |       |       |       |       |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 3 | DSI 5 | 21100  | 2535 | 1 | 12.75 | 13.80 | 1.274 | -0.05 | 0.050 | 0.064 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 3 | DSI 5 | 21100  | 2535 | 1 | 12.75 | 13.80 | 1.274 | 0.11  | 0.088 | 0.112 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 21100  | 2535 | 1 | 12.75 | 13.80 | 1.274 | 0.13  | 0.019 | 0.024 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 21100  | 2535 | 1 | 12.75 | 13.80 | 1.274 | -0.08 | 0.100 | 0.127 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 3 | DSI 5 | 21100  | 2535 | 1 | 12.67 | 13.80 | 1.297 | 0.06  | 0.054 | 0.070 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 3 | DSI 5 | 21100  | 2535 | 1 | 12.67 | 13.80 | 1.297 | -0.19 | 0.090 | 0.117 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 3 | DSI 5 | 21100  | 2535 | 1 | 12.67 | 13.80 | 1.297 | 0.02  | 0.019 | 0.025 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 3 | DSI 5 | 21100  | 2535 | 1 | 12.67 | 13.80 | 1.297 | -0.14 | 0.105 | 0.136 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 0 | DSI 5 | 21100  | 2535 | 1 | 15.81 | 16.30 | 1.119 | 0.08  | 0.134 | 0.150 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 0 | DSI 5 | 21100  | 2535 | 1 | 15.81 | 16.30 | 1.119 | 0.12  | 0.176 | 0.197 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 21100  | 2535 | 1 | 15.81 | 16.30 | 1.119 | 0.03  | 0.055 | 0.062 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 21100  | 2535 | 1 | 15.81 | 16.30 | 1.119 | 0.09  | 0.344 | 0.385 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 0 | DSI 5 | 21100  | 2535 | 1 | 15.75 | 16.30 | 1.135 | 0.03  | 0.127 | 0.144 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 0 | DSI 5 | 21100  | 2535 | 1 | 15.75 | 16.30 | 1.135 | 0.14  | 0.166 | 0.188 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 0 | DSI 5 | 21100  | 2535 | 1 | 15.75 | 16.30 | 1.135 | 0.05  | 0.053 | 0.060 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Bottom Side | 10mm | Ant 0 | DSI 5 | 21100  | 2535 | 1 | 15.75 | 16.30 | 1.135 | -0.08 | 0.277 | 0.314 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front       | 10mm | Ant 4 | DSI 5 | 21100  | 2535 | 1 | 14.29 | 15.30 | 1.262 | 0.01  | 0.033 | 0.042 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back        | 10mm | Ant 4 | DSI 5 | 21100  | 2535 | 1 | 14.29 | 15.30 | 1.262 | -0.03 | 0.094 | 0.119 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 21100  | 2535 | 1 | 14.29 | 15.30 | 1.262 | 0.17  | 0.090 | 0.114 |
|         | LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 21100  | 2535 | 1 | 14.29 | 15.30 | 1.262 | 0.06  | 0.021 | 0.026 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front       | 10mm | Ant 4 | DSI 5 | 21100  | 2535 | 1 | 14.22 | 15.30 | 1.282 | 0.12  | 0.035 | 0.045 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back        | 10mm | Ant 4 | DSI 5 | 21100  | 2535 | 1 | 14.22 | 15.30 | 1.282 | -0.19 | 0.095 | 0.122 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Left Side   | 10mm | Ant 4 | DSI 5 | 21100  | 2535 | 1 | 14.22 | 15.30 | 1.282 | 0.18  | 0.094 | 0.121 |
|         | LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Top Side    | 10mm | Ant 4 | DSI 5 | 21100  | 2535 | 1 | 14.22 | 15.30 | 1.282 | -0.19 | 0.022 | 0.028 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 3 | DSI 5 | 507000 | 2535 | 1 | 12.49 | 13.20 | 1.178 | -0.1  | 0.058 | 0.068 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 3 | DSI 5 | 507000 | 2535 | 1 | 12.49 | 13.20 | 1.178 | -0.04 | 0.100 | 0.118 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 3 | DSI 5 | 507000 | 2535 | 1 | 12.49 | 13.20 | 1.178 | 0.16  | 0.023 | 0.027 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Top Side    | 10mm | Ant 3 | DSI 5 | 507000 | 2535 | 1 | 12.49 | 13.20 | 1.178 | -0.04 | 0.114 | 0.134 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 3 | DSI 5 | 507000 | 2535 | 1 | 12.43 | 13.20 | 1.194 | 0.11  | 0.059 | 0.070 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 3 | DSI 5 | 507000 | 2535 | 1 | 12.43 | 13.20 | 1.194 | -0.06 | 0.101 | 0.121 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 3 | DSI 5 | 507000 | 2535 | 1 | 12.43 | 13.20 | 1.194 | 0.03  | 0.023 | 0.027 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Top Side    | 10mm | Ant 3 | DSI 5 | 507000 | 2535 | 1 | 12.43 | 13.20 | 1.194 | -0.13 | 0.113 | 0.135 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 0 | DSI 5 | 507000 | 2535 | 1 | 14.35 | 15.20 | 1.216 | -0.01 | 0.117 | 0.142 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 0 | DSI 5 | 507000 | 2535 | 1 | 14.35 | 15.20 | 1.216 | 0.05  | 0.159 | 0.193 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 0 | DSI 5 | 507000 | 2535 | 1 | 14.35 | 15.20 | 1.216 | -0.09 | 0.060 | 0.073 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Bottom Side | 10mm | Ant 0 | DSI 5 | 507000 | 2535 | 1 | 14.35 | 15.20 | 1.216 | 0.11  | 0.319 | 0.388 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 0 | DSI 5 | 507000 | 2535 | 1 | 14.27 | 15.20 | 1.239 | -0.07 | 0.116 | 0.144 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 0 | DSI 5 | 507000 | 2535 | 1 | 14.27 | 15.20 | 1.239 | 0.17  | 0.158 | 0.196 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 0 | DSI 5 | 507000 | 2535 | 1 | 14.27 | 15.20 | 1.239 | -0.03 | 0.057 | 0.071 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Bottom Side | 10mm | Ant 0 | DSI 5 | 507000 | 2535 | 1 | 14.27 | 15.20 | 1.239 | 0.03  | 0.298 | 0.369 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front       | 10mm | Ant 4 | DSI 5 | 507000 | 2535 | 1 | 13.55 | 14.70 | 1.303 | -0.09 | 0.035 | 0.046 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back        | 10mm | Ant 4 | DSI 5 | 507000 | 2535 | 1 | 13.55 | 14.70 | 1.303 | 0.14  | 0.099 | 0.129 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Left Side   | 10mm | Ant 4 | DSI 5 | 507000 | 2535 | 1 | 13.55 | 14.70 | 1.303 | 0.19  | 0.096 | 0.125 |
|         | FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Top Side    | 10mm | Ant 4 | DSI 5 | 507000 | 2535 | 1 | 13.55 | 14.70 | 1.303 | -0.08 | 0.025 | 0.033 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front       | 10mm | Ant 4 | DSI 5 | 507000 | 2535 | 1 | 13.46 | 14.70 | 1.330 | -0.16 | 0.037 | 0.049 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back        | 10mm | Ant 4 | DSI 5 | 507000 | 2535 | 1 | 13.46 | 14.70 | 1.330 | -0.01 | 0.101 | 0.134 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Left Side   | 10mm | Ant 4 | DSI 5 | 507000 | 2535 | 1 | 13.46 | 14.70 | 1.330 | -0.11 | 0.100 | 0.133 |
|         | FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Top Side    | 10mm | Ant 4 | DSI 5 | 507000 | 2535 | 1 | 13.46 | 14.70 | 1.330 | 0.01  | 0.028 | 0.037 |
|         | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Front       | 10mm | Ant 3 | DSI 5 | 519000 | 2595 | 1 | 12.75 | 14.20 | 1.396 | 0.11  | 0.065 | 0.091 |
|         | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Back        | 10mm | Ant 3 | DSI 5 | 519000 | 2595 | 1 | 12.75 | 14.20 | 1.396 | 0.09  | 0.111 | 0.155 |
|         | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Left Side   | 10mm | Ant 3 | DSI 5 | 519000 | 2595 | 1 | 12.75 | 14.20 | 1.396 | 0.16  | 0.025 | 0.035 |
|         | FR1 n38    | 40M | QPSK | 1   | 53  | DFT-30 | Top Side    | 10mm | Ant 3 | DSI 5 | 519000 | 2595 | 1 | 12.75 | 14.20 | 1.396 | -0.06 | 0.133 | 0.186 |
|         | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Front       | 10mm | Ant 3 | DSI 5 | 519000 | 2595 | 1 | 12.70 | 14.20 | 1.413 | 0.13  | 0.061 | 0.086 |
|         | FR1 n38    | 40M | QPSK | 50  | 28  | DFT-30 | Back        | 10mm | Ant 3 | DSI 5 | 519000 | 2595 | 1 | 12.70 | 14.20 | 1.413 | 0.15  | 0.109 | 0.154 |



# FCC SAR Test Report

Report No. : FA3O3018

|  |             |      |      |     |     |        |             |      |       |       |        |         |   |       |       |       |       |       |       |
|--|-------------|------|------|-----|-----|--------|-------------|------|-------|-------|--------|---------|---|-------|-------|-------|-------|-------|-------|
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Side   | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 12.70 | 14.20 | 1.413 | -0.03 | 0.025 | 0.035 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Top Side    | 10mm | Ant 3 | DSI 5 | 519000 | 2595    | 1 | 12.70 | 14.20 | 1.413 | 0.03  | 0.130 | 0.184 |
|  | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Front       | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 15.10 | 16.70 | 1.445 | 0.15  | 0.110 | 0.159 |
|  | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Back        | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 15.10 | 16.70 | 1.445 | -0.19 | 0.113 | 0.163 |
|  | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Side   | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 15.10 | 16.70 | 1.445 | 0.14  | 0.106 | 0.153 |
|  | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 15.10 | 16.70 | 1.445 | -0.03 | 0.197 | 0.285 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Front       | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 15.01 | 16.70 | 1.476 | -0.18 | 0.110 | 0.162 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Back        | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 15.01 | 16.70 | 1.476 | 0.11  | 0.115 | 0.170 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Side   | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 15.01 | 16.70 | 1.476 | 0.03  | 0.107 | 0.158 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 519000 | 2595    | 1 | 15.01 | 16.70 | 1.476 | -0.09 | 0.225 | 0.332 |
|  | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Front       | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 13.05 | 14.70 | 1.462 | 0.01  | 0.029 | 0.042 |
|  | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Back        | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 13.05 | 14.70 | 1.462 | 0.01  | 0.075 | 0.110 |
|  | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Left Side   | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 13.05 | 14.70 | 1.462 | 0.09  | 0.063 | 0.092 |
|  | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Top Side    | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 13.05 | 14.70 | 1.462 | -0.05 | 0.024 | 0.035 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Front       | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 13.00 | 14.70 | 1.479 | 0.01  | 0.027 | 0.040 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Back        | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 13.00 | 14.70 | 1.479 | -0.19 | 0.072 | 0.106 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Left Side   | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 13.00 | 14.70 | 1.479 | 0.1   | 0.060 | 0.089 |
|  | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Top Side    | 10mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 13.00 | 14.70 | 1.479 | 0.18  | 0.022 | 0.033 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front       | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 13.11 | 14.70 | 1.442 | -0.17 | 0.069 | 0.100 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back        | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 13.11 | 14.70 | 1.442 | -0.1  | 0.114 | 0.164 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Side   | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 13.11 | 14.70 | 1.442 | 0.16  | 0.028 | 0.040 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Top Side    | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 13.11 | 14.70 | 1.442 | -0.02 | 0.187 | 0.270 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front       | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 13.07 | 14.70 | 1.455 | 0.11  | 0.074 | 0.108 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back        | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 13.07 | 14.70 | 1.455 | 0.16  | 0.118 | 0.172 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Side   | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 13.07 | 14.70 | 1.455 | -0.14 | 0.029 | 0.042 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Top Side    | 10mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 13.07 | 14.70 | 1.455 | -0.1  | 0.227 | 0.330 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front       | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 16.88 | 18.70 | 1.521 | -0.09 | 0.137 | 0.208 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back        | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 16.88 | 18.70 | 1.521 | -0.14 | 0.161 | 0.245 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Side   | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 16.88 | 18.70 | 1.521 | 0.09  | 0.134 | 0.204 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 16.88 | 18.70 | 1.521 | 0.18  | 0.221 | 0.336 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front       | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 16.82 | 18.70 | 1.542 | -0.1  | 0.144 | 0.222 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back        | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 16.82 | 18.70 | 1.542 | 0.16  | 0.167 | 0.257 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Side   | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 16.82 | 18.70 | 1.542 | -0.13 | 0.136 | 0.210 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Bottom Side | 10mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 16.82 | 18.70 | 1.542 | 0.07  | 0.275 | 0.424 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front       | 10mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 13.85 | 15.70 | 1.531 | 0.02  | 0.042 | 0.064 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back        | 10mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 13.85 | 15.70 | 1.531 | -0.16 | 0.108 | 0.165 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Left Side   | 10mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 13.85 | 15.70 | 1.531 | 0.09  | 0.094 | 0.144 |
|  | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Top Side    | 10mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 13.85 | 15.70 | 1.531 | -0.09 | 0.032 | 0.049 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front       | 10mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 13.77 | 15.70 | 1.560 | -0.04 | 0.040 | 0.062 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back        | 10mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 13.77 | 15.70 | 1.560 | -0.14 | 0.105 | 0.164 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Left Side   | 10mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 13.77 | 15.70 | 1.560 | -0.12 | 0.093 | 0.145 |
|  | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Top Side    | 10mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 13.77 | 15.70 | 1.560 | 0.01  | 0.032 | 0.050 |



# FCC SAR Test Report

Report No. : FA3O3018

| Plot No. | Band       | Mode                | Test Position | Gap (mm) | Antenna | Power State | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------------|---------------|----------|---------|-------------|-----|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| BT/WIFI  |            |                     |               |          |         |             |     |             |        |                     |                     |                        |              |                           |                  |                        |                        |
|          | Bluetooth  | DH5 1Mbps           | Front         | 10mm     | Ant 7   | Full        | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | -0.04            | 0.057                  | 0.087                  |
|          | Bluetooth  | DH5 1Mbps           | Back          | 10mm     | Ant 7   | Full        | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | 0                | 0.065                  | 0.100                  |
|          | Bluetooth  | DH5 1Mbps           | Right Side    | 10mm     | Ant 7   | Full        | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | 0.1              | 0.017                  | 0.026                  |
| 48       | Bluetooth  | DH5 1Mbps           | Top Side      | 10mm     | Ant 7   | Full        | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | -0.12            | 0.110                  | 0.169                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 10mm     | Ant 7   | Full        | 6   | 2437        | 1      | 13.95               | 14.50               | 1.135                  | 100          | 1.000                     | 0.04             | 0.068                  | 0.077                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 10mm     | Ant 7   | Full        | 6   | 2437        | 1      | 13.95               | 14.50               | 1.135                  | 100          | 1.000                     | 0.04             | 0.130                  | 0.148                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Right Side    | 10mm     | Ant 7   | Full        | 6   | 2437        | 1      | 13.95               | 14.50               | 1.135                  | 100          | 1.000                     | -0.11            | 0.062                  | 0.070                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Top Side      | 10mm     | Ant 7   | Full        | 6   | 2437        | 1      | 13.95               | 14.50               | 1.135                  | 100          | 1.000                     | -0.08            | 0.145                  | 0.165                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 10mm     | Ant 8   | Full        | 6   | 2437        | 1      | 13.91               | 14.50               | 1.146                  | 100          | 1.000                     | -0.12            | 0.116                  | 0.133                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 10mm     | Ant 8   | Full        | 6   | 2437        | 1      | 13.91               | 14.50               | 1.146                  | 100          | 1.000                     | 0.07             | 0.121                  | 0.139                  |
| 49       | WLAN2.4GHz | 802.11b 1Mbps       | Right Side    | 10mm     | Ant 8   | Full        | 6   | 2437        | 1      | 13.91               | 14.50               | 1.146                  | 100          | 1.000                     | -0.05            | 0.159                  | 0.182                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Top Side      | 10mm     | Ant 8   | Full        | 6   | 2437        | 1      | 13.91               | 14.50               | 1.146                  | 100          | 1.000                     | -                | n/a                    | n/a                    |
|          | WLAN5.2GHz | 802.11n-HT40 MCS0   | Front         | 10mm     | Ant 8+6 | Full        | 46  | 5230        | 1      | 16.11               | 17.00               | 1.227                  | 87.66        | 1.141                     | 0.04             | 0.161                  | 0.225                  |
|          | WLAN5.2GHz | 802.11n-HT40 MCS0   | Back          | 10mm     | Ant 8+6 | Full        | 46  | 5230        | 1      | 16.11               | 17.00               | 1.227                  | 87.66        | 1.141                     | 0.03             | 0.310                  | 0.434                  |
| 50       | WLAN5.2GHz | 802.11n-HT40 MCS0   | Right Side    | 10mm     | Ant 8+6 | Full        | 46  | 5230        | 1      | 16.11               | 17.00               | 1.227                  | 87.66        | 1.141                     | -0.03            | 0.492                  | 0.689                  |
|          | WLAN5.2GHz | 802.11n-HT40 MCS0   | Right Side    | 10mm     | Ant 8+6 | Full        | 46  | 5230        | 2      | 16.11               | 17.00               | 1.227                  | 87.66        | 1.141                     | -0.03            | 0.467                  | 0.654                  |
|          | WLAN5.2GHz | 802.11n-HT40 MCS0   | Top Side      | 10mm     | Ant 8+6 | Full        | 46  | 5230        | 1      | 16.11               | 17.00               | 1.227                  | 87.66        | 1.141                     | -0.07            | 0.316                  | 0.443                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Front         | 10mm     | Ant 8+6 | Full        | 155 | 5775        | 1      | 12.55               | 13.50               | 1.245                  | 87.28        | 1.146                     | -0.01            | 0.071                  | 0.101                  |
| 51       | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Back          | 10mm     | Ant 8+6 | Full        | 155 | 5775        | 1      | 12.55               | 13.50               | 1.245                  | 87.28        | 1.146                     | -0.02            | 0.249                  | 0.355                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Right Side    | 10mm     | Ant 8+6 | Full        | 155 | 5775        | 1      | 12.55               | 13.50               | 1.245                  | 87.28        | 1.146                     | 0.1              | 0.122                  | 0.174                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Top Side      | 10mm     | Ant 8+6 | Full        | 155 | 5775        | 1      | 12.55               | 13.50               | 1.245                  | 87.28        | 1.146                     | 0.01             | 0.211                  | 0.301                  |



## 14.3 Body Worn Accessory SAR

| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode              | Test Position | Gap (mm) | Antenna | Power State | Ch.   | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|-------------------|---------------|----------|---------|-------------|-------|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 750MHz   |             |          |            |         |           |                   |               |          |         |             |       |             |        |                     |                     |                        |              |                           |                  |                        |                        |
| 52       | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 15mm     | Ant 1   | DSI 1       | 23095 | 707.5       | 1      | 24.42               | 24.70               | 1.067                  | -            | -                         | 0.03             | 0.165                  | 0.176                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 15mm     | Ant 1   | DSI 1       | 23095 | 707.5       | 1      | 24.42               | 24.70               | 1.067                  | -            | -                         | 0.11             | 0.252                  | 0.269                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 15mm     | Ant 1   | DSI 1       | 23095 | 707.5       | 1      | 23.44               | 23.70               | 1.062                  | -            | -                         | -0.15            | 0.135                  | 0.143                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 15mm     | Ant 1   | DSI 1       | 23095 | 707.5       | 1      | 23.44               | 23.70               | 1.062                  | -            | -                         | 0.11             | 0.225                  | 0.239                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 15mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.97               | 22.20               | 1.054                  | -            | -                         | -0.01            | 0.120                  | 0.127                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 15mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.97               | 22.20               | 1.054                  | -            | -                         | 0.06             | 0.178                  | 0.188                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 15mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.96               | 22.20               | 1.057                  | -            | -                         | 0.03             | 0.117                  | 0.124                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 15mm     | Ant 1   | DSI 5       | 23095 | 707.5       | 1      | 21.96               | 22.20               | 1.057                  | -            | -                         | 0.1              | 0.172                  | 0.182                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 15mm     | Ant 0   | DSI 1/DSI 5 | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | -0.02            | 0.107                  | 0.144                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 15mm     | Ant 0   | DSI 1/DSI 5 | 23095 | 707.5       | 1      | 23.42               | 24.70               | 1.343                  | -            | -                         | 0.1              | 0.142                  | 0.191                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 15mm     | Ant 0   | DSI 1/DSI 5 | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | -0.07            | 0.099                  | 0.137                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 15mm     | Ant 0   | DSI 1/DSI 5 | 23095 | 707.5       | 1      | 22.28               | 23.70               | 1.387                  | -            | -                         | -0.08            | 0.113                  | 0.157                  |
| 53       | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 15mm     | Ant 1   | DSI 1       | 23230 | 782         | 1      | 22.29               | 22.50               | 1.050                  | -            | -                         | -0.19            | 0.299                  | 0.314                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 15mm     | Ant 1   | DSI 1       | 23230 | 782         | 1      | 22.29               | 22.50               | 1.050                  | -            | -                         | -0.09            | 0.512                  | 0.537                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 15mm     | Ant 1   | DSI 1       | 23230 | 782         | 1      | 22.27               | 22.50               | 1.054                  | -            | -                         | 0.09             | 0.278                  | 0.293                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 15mm     | Ant 1   | DSI 1       | 23230 | 782         | 1      | 22.27               | 22.50               | 1.054                  | -            | -                         | -0.02            | 0.433                  | 0.457                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 15mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.79               | 21.00               | 1.050                  | -            | -                         | -0.11            | 0.212                  | 0.223                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 15mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.79               | 21.00               | 1.050                  | -            | -                         | 0.14             | 0.362                  | 0.380                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 15mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.74               | 21.00               | 1.062                  | -            | -                         | 0.07             | 0.197                  | 0.209                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 15mm     | Ant 1   | DSI 5       | 23230 | 782         | 1      | 20.74               | 21.00               | 1.062                  | -            | -                         | -0.04            | 0.307                  | 0.326                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Front         | 15mm     | Ant 0   | DSI 1/DSI 5 | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | 0.14             | 0.089                  | 0.119                  |
|          | LTE Band 13 | 10M      | QPSK       | 1       | 25        | -                 | Back          | 15mm     | Ant 0   | DSI 1/DSI 5 | 23230 | 782         | 1      | 22.23               | 23.50               | 1.340                  | -            | -                         | 0.15             | 0.091                  | 0.122                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Front         | 15mm     | Ant 0   | DSI 1/DSI 5 | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | -0.14            | 0.064                  | 0.085                  |
|          | LTE Band 13 | 10M      | QPSK       | 25      | 12        | -                 | Back          | 15mm     | Ant 0   | DSI 1/DSI 5 | 23230 | 782         | 1      | 21.26               | 22.50               | 1.330                  | -            | -                         | 0.08             | 0.073                  | 0.097                  |
| 835MHz   |             |          |            |         |           |                   |               |          |         |             |       |             |        |                     |                     |                        |              |                           |                  |                        |                        |
| 54       | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Front         | 15mm     | Ant 1   | DSI 1       | 189   | 836.4       | 1      | 26.92               | 28.00               | 1.282                  | -            | -                         | -0.15            | 0.212                  | 0.272                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Back          | 15mm     | Ant 1   | DSI 1       | 189   | 836.4       | 1      | 26.92               | 28.00               | 1.282                  | -            | -                         | -0.01            | 0.362                  | 0.464                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Front         | 15mm     | Ant 1   | DSI 5       | 189   | 836.4       | 1      | 26.43               | 27.50               | 1.279                  | -            | -                         | 0.03             | 0.189                  | 0.242                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Back          | 15mm     | Ant 1   | DSI 5       | 189   | 836.4       | 1      | 26.43               | 27.50               | 1.279                  | -            | -                         | -0.03            | 0.323                  | 0.413                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Front         | 15mm     | Ant 0   | DSI 1/DSI 5 | 189   | 836.4       | 1      | 26.31               | 27.50               | 1.315                  | -            | -                         | -0.05            | 0.102                  | 0.134                  |
|          | GSM850      | -        | -          | -       | -         | GPRS (4 Tx slots) | Back          | 15mm     | Ant 0   | DSI 1/DSI 5 | 189   | 836.4       | 1      | 26.31               | 27.50               | 1.315                  | -            | -                         | -0.1             | 0.139                  | 0.183                  |
| 55       | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Front         | 15mm     | Ant 1   | DSI 1       | 4182  | 836.4       | 1      | 21.74               | 21.90               | 1.038                  | -            | -                         | 0.15             | 0.281                  | 0.292                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Back          | 15mm     | Ant 1   | DSI 1       | 4182  | 836.4       | 1      | 21.74               | 21.90               | 1.038                  | -            | -                         | -0.19            | 0.456                  | 0.473                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Front         | 15mm     | Ant 1   | DSI 5       | 4182  | 836.4       | 1      | 20.12               | 20.40               | 1.067                  | -            | -                         | 0.05             | 0.199                  | 0.212                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Back          | 15mm     | Ant 1   | DSI 5       | 4182  | 836.4       | 1      | 20.12               | 20.40               | 1.067                  | -            | -                         | -0.06            | 0.323                  | 0.345                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Front         | 15mm     | Ant 0   | DSI 1       | 4182  | 836.4       | 1      | 22.93               | 24.40               | 1.403                  | -            | -                         | 0.11             | 0.143                  | 0.201                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Back          | 15mm     | Ant 0   | DSI 1       | 4182  | 836.4       | 1      | 22.93               | 24.40               | 1.403                  | -            | -                         | -0.06            | 0.170                  | 0.238                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Front         | 15mm     | Ant 0   | DSI 5       | 4182  | 836.4       | 1      | 22.05               | 23.40               | 1.365                  | -            | -                         | 0.08             | 0.114                  | 0.156                  |
|          | WCDMA V     | -        | -          | -       | -         | RMC 12.2Kbps      | Back          | 15mm     | Ant 0   | DSI 5       | 4182  | 836.4       | 1      | 22.05               | 23.40               | 1.365                  | -            | -                         | -0.04            | 0.135                  | 0.184                  |
| 56       | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Front         | 15mm     | Ant 1   | DSI 1       | 26865 | 831.5       | 1      | 21.29               | 21.60               | 1.074                  | -            | -                         | 0.1              | 0.239                  | 0.257                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Back          | 15mm     | Ant 1   | DSI 1       | 26865 | 831.5       | 1      | 21.29               | 21.60               | 1.074                  | -            | -                         | -0.07            | 0.366                  | 0.393                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 20        | -                 | Front         | 15mm     | Ant 1   | DSI 1       | 26865 | 831.5       | 1      | 21.28               | 21.60               | 1.076                  | -            | -                         | 0.04             | 0.237                  | 0.255                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 20        | -                 | Back          | 15mm     | Ant 1   | DSI 1       | 26865 | 831.5       | 1      | 21.28               | 21.60               | 1.076                  | -            | -                         | 0.14             | 0.346                  | 0.372                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Front         | 15mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.79               | 20.10               | 1.074                  | -            | -                         | -0.17            | 0.169                  | 0.182                  |
|          | LTE Band 26 | 15M      | QPSK       | 1       | 37        | -                 | Back          | 15mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.79               | 20.10               | 1.074                  | -            | -                         | -0.16            | 0.259                  | 0.278                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 20        | -                 | Front         | 15mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.76               | 20.10               | 1.081                  | -            | -                         | -0.08            | 0.168                  | 0.181                  |
|          | LTE Band 26 | 15M      | QPSK       | 36      | 20        | -                 | Back          | 15mm     | Ant 1   | DSI 5       | 26865 | 831.5       | 1      | 19.76               | 20.10               | 1.081                  | -            | -                         | 0.15             | 0.245                  | 0.265                  |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |    |    |              |       |      |       |       |        |        |   |       |       |       |   |   |       |       |       |
|---------|-------------|-----|------|----|----|--------------|-------|------|-------|-------|--------|--------|---|-------|-------|-------|---|---|-------|-------|-------|
|         | LTE Band 26 | 15M | QPSK | 1  | 37 | -            | Front | 15mm | Ant 0 | DSI 1 | 26865  | 831.5  | 1 | 23.27 | 24.60 | 1.358 | - | - | 0.04  | 0.163 | 0.221 |
|         | LTE Band 26 | 15M | QPSK | 1  | 37 | -            | Back  | 15mm | Ant 0 | DSI 1 | 26865  | 831.5  | 1 | 23.27 | 24.60 | 1.358 | - | - | 0.01  | 0.196 | 0.266 |
|         | LTE Band 26 | 15M | QPSK | 36 | 20 | -            | Front | 15mm | Ant 0 | DSI 1 | 26865  | 831.5  | 1 | 22.28 | 23.60 | 1.355 | - | - | -0.07 | 0.124 | 0.168 |
|         | LTE Band 26 | 15M | QPSK | 36 | 20 | -            | Back  | 15mm | Ant 0 | DSI 1 | 26865  | 831.5  | 1 | 22.28 | 23.60 | 1.355 | - | - | -0.16 | 0.148 | 0.201 |
|         | LTE Band 26 | 15M | QPSK | 1  | 37 | -            | Front | 15mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.28 | 23.60 | 1.355 | - | - | 0.16  | 0.119 | 0.161 |
|         | LTE Band 26 | 15M | QPSK | 1  | 37 | -            | Back  | 15mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.28 | 23.60 | 1.355 | - | - | -0.17 | 0.141 | 0.191 |
|         | LTE Band 26 | 15M | QPSK | 36 | 20 | -            | Front | 15mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.16 | 23.60 | 1.393 | - | - | -0.08 | 0.112 | 0.156 |
|         | LTE Band 26 | 15M | QPSK | 36 | 20 | -            | Back  | 15mm | Ant 0 | DSI 5 | 26865  | 831.5  | 1 | 22.16 | 23.60 | 1.393 | - | - | 0.08  | 0.135 | 0.188 |
|         | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Front | 15mm | Ant 1 | DSI 1 | 166300 | 831.5  | 1 | 21.45 | 22.70 | 1.334 | - | - | 0.01  | 0.298 | 0.397 |
| 57      | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Back  | 15mm | Ant 1 | DSI 1 | 166300 | 831.5  | 1 | 21.45 | 22.70 | 1.334 | - | - | 0.15  | 0.461 | 0.615 |
|         | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Back  | 15mm | Ant 1 | DSI 1 | 166300 | 831.5  | 2 | 21.45 | 22.70 | 1.334 | - | - | 0.15  | 0.454 | 0.605 |
|         | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15       | Front | 15mm | Ant 1 | DSI 1 | 166300 | 831.5  | 1 | 21.42 | 22.70 | 1.343 | - | - | -0.14 | 0.290 | 0.389 |
|         | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15       | Back  | 15mm | Ant 1 | DSI 1 | 166300 | 831.5  | 1 | 21.42 | 22.70 | 1.343 | - | - | -0.13 | 0.419 | 0.563 |
|         | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Front | 15mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.94 | 21.20 | 1.337 | - | - | -0.09 | 0.207 | 0.277 |
|         | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Back  | 15mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.94 | 21.20 | 1.337 | - | - | 0.05  | 0.326 | 0.436 |
|         | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15       | Front | 15mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.93 | 21.20 | 1.340 | - | - | 0.02  | 0.205 | 0.275 |
|         | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15       | Back  | 15mm | Ant 1 | DSI 5 | 166300 | 831.5  | 1 | 19.93 | 21.20 | 1.340 | - | - | 0     | 0.297 | 0.398 |
|         | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Front | 15mm | Ant 0 | DSI 1 | 166300 | 831.5  | 1 | 23.40 | 24.70 | 1.349 | - | - | -0.09 | 0.137 | 0.185 |
|         | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Back  | 15mm | Ant 0 | DSI 1 | 166300 | 831.5  | 1 | 23.40 | 24.70 | 1.349 | - | - | -0.07 | 0.172 | 0.232 |
|         | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15       | Front | 15mm | Ant 0 | DSI 1 | 166300 | 831.5  | 1 | 23.39 | 24.70 | 1.352 | - | - | 0.07  | 0.135 | 0.183 |
|         | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15       | Back  | 15mm | Ant 0 | DSI 1 | 166300 | 831.5  | 1 | 23.39 | 24.70 | 1.352 | - | - | -0.05 | 0.170 | 0.230 |
|         | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Front | 15mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.96 | 23.20 | 1.330 | - | - | -0.09 | 0.097 | 0.129 |
|         | FR1 n26     | 20M | QPSK | 1  | 53 | DFT-15       | Back  | 15mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.96 | 23.20 | 1.330 | - | - | -0.04 | 0.122 | 0.162 |
|         | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15       | Front | 15mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.89 | 23.20 | 1.352 | - | - | 0.07  | 0.095 | 0.128 |
|         | FR1 n26     | 20M | QPSK | 50 | 28 | DFT-15       | Back  | 15mm | Ant 0 | DSI 5 | 166300 | 831.5  | 1 | 21.89 | 23.20 | 1.352 | - | - | -0.18 | 0.119 | 0.161 |
| 1750MHz |             |     |      |    |    |              |       |      |       |       |        |        |   |       |       |       |   |   |       |       |       |
|         | WCDMA IV    | -   | -    | -  | -  | RMC 12.2Kbps | Front | 15mm | Ant 3 | DSI 1 | 1413   | 1732.6 | 1 | 22.77 | 23.30 | 1.130 | - | - | 0.01  | 0.182 | 0.206 |
|         | WCDMA IV    | -   | -    | -  | -  | RMC 12.2Kbps | Back  | 15mm | Ant 3 | DSI 1 | 1413   | 1732.6 | 1 | 22.77 | 23.30 | 1.130 | - | - | -0.06 | 0.302 | 0.341 |
|         | WCDMA IV    | -   | -    | -  | -  | RMC 12.2Kbps | Front | 15mm | Ant 3 | DSI 5 | 1413   | 1732.6 | 1 | 20.72 | 21.30 | 1.143 | - | - | -0.03 | 0.115 | 0.131 |
|         | WCDMA IV    | -   | -    | -  | -  | RMC 12.2Kbps | Back  | 15mm | Ant 3 | DSI 5 | 1413   | 1732.6 | 1 | 20.72 | 21.30 | 1.143 | - | - | -0.16 | 0.201 | 0.230 |
|         | WCDMA IV    | -   | -    | -  | -  | RMC 12.2Kbps | Front | 15mm | Ant 0 | DSI 1 | 1413   | 1732.6 | 1 | 20.64 | 21.80 | 1.306 | - | - | -0.07 | 0.221 | 0.289 |
| 58      | WCDMA IV    | -   | -    | -  | -  | RMC 12.2Kbps | Back  | 15mm | Ant 0 | DSI 1 | 1413   | 1732.6 | 1 | 20.64 | 21.80 | 1.306 | - | - | -0.11 | 0.358 | 0.468 |
|         | WCDMA IV    | -   | -    | -  | -  | RMC 12.2Kbps | Front | 15mm | Ant 0 | DSI 5 | 1413   | 1732.6 | 1 | 18.73 | 19.80 | 1.279 | - | - | -0.07 | 0.139 | 0.178 |
|         | WCDMA IV    | -   | -    | -  | -  | RMC 12.2Kbps | Back  | 15mm | Ant 0 | DSI 5 | 1413   | 1732.6 | 1 | 18.73 | 19.80 | 1.279 | - | - | -0.06 | 0.226 | 0.289 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Front | 15mm | Ant 3 | DSI 1 | 132322 | 1745   | 1 | 21.86 | 22.30 | 1.107 | - | - | 0.06  | 0.134 | 0.148 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Back  | 15mm | Ant 3 | DSI 1 | 132322 | 1745   | 1 | 21.86 | 22.30 | 1.107 | - | - | -0.08 | 0.218 | 0.241 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Front | 15mm | Ant 3 | DSI 1 | 132322 | 1745   | 1 | 21.75 | 22.30 | 1.135 | - | - | 0.16  | 0.138 | 0.157 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Back  | 15mm | Ant 3 | DSI 1 | 132322 | 1745   | 1 | 21.75 | 22.30 | 1.135 | - | - | 0.17  | 0.220 | 0.250 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Front | 15mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.91 | 20.30 | 1.094 | - | - | -0.03 | 0.085 | 0.093 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Back  | 15mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 19.91 | 20.30 | 1.094 | - | - | 0.07  | 0.135 | 0.148 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Front | 15mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 18.89 | 20.30 | 1.384 | - | - | 0.01  | 0.089 | 0.123 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Back  | 15mm | Ant 3 | DSI 5 | 132322 | 1745   | 1 | 18.89 | 20.30 | 1.384 | - | - | 0.08  | 0.138 | 0.191 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Front | 15mm | Ant 0 | DSI 1 | 132322 | 1745   | 1 | 20.25 | 21.30 | 1.274 | - | - | 0.11  | 0.195 | 0.248 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Back  | 15mm | Ant 0 | DSI 1 | 132322 | 1745   | 1 | 20.25 | 21.30 | 1.274 | - | - | 0.14  | 0.314 | 0.400 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Front | 15mm | Ant 0 | DSI 1 | 132322 | 1745   | 1 | 20.24 | 21.30 | 1.276 | - | - | 0.02  | 0.199 | 0.254 |
| 59      | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Back  | 15mm | Ant 0 | DSI 1 | 132322 | 1745   | 1 | 20.24 | 21.30 | 1.276 | - | - | -0.13 | 0.315 | 0.402 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Front | 15mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.29 | 19.30 | 1.262 | - | - | -0.19 | 0.123 | 0.155 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Back  | 15mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.29 | 19.30 | 1.262 | - | - | -0.11 | 0.198 | 0.250 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Front | 15mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.28 | 19.30 | 1.265 | - | - | 0.11  | 0.126 | 0.159 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Back  | 15mm | Ant 0 | DSI 5 | 132322 | 1745   | 1 | 18.28 | 19.30 | 1.265 | - | - | -0.02 | 0.199 | 0.252 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Front | 15mm | Ant 4 | DSI 1 | 132322 | 1745   | 1 | 21.37 | 21.80 | 1.104 | - | - | -0.01 | 0.104 | 0.115 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Back  | 15mm | Ant 4 | DSI 1 | 132322 | 1745   | 1 | 21.37 | 21.80 | 1.104 | - | - | -0.14 | 0.188 | 0.208 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Front | 15mm | Ant 4 | DSI 1 | 132322 | 1745   | 1 | 21.30 | 21.80 | 1.122 | - | - | 0.01  | 0.111 | 0.125 |
|         | LTE Band 66 | 20M | QPSK | 50 | 24 | -            | Back  | 15mm | Ant 4 | DSI 1 | 132322 | 1745   | 1 | 21.30 | 21.80 | 1.122 | - | - | -0.16 | 0.190 | 0.213 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Front | 15mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.61 | 19.80 | 1.045 | - | - | 0.04  | 0.066 | 0.069 |
|         | LTE Band 66 | 20M | QPSK | 1  | 49 | -            | Back  | 15mm | Ant 4 | DSI 5 | 132322 | 1745   | 1 | 19.61 | 19.80 | 1.045 | - | - | -0.03 | 0.119 | 0.124 |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |     |     |                   |       |      |       |       |        |      |   |       |       |       |   |   |       |       |       |
|---------|-------------|-----|------|-----|-----|-------------------|-------|------|-------|-------|--------|------|---|-------|-------|-------|---|---|-------|-------|-------|
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -                 | Front | 15mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 19.59 | 19.80 | 1.050 | - | - | -0.04 | 0.070 | 0.073 |
|         | LTE Band 66 | 20M | QPSK | 50  | 24  | -                 | Back  | 15mm | Ant 4 | DSI 5 | 132322 | 1745 | 1 | 19.59 | 19.80 | 1.050 | - | - | -0.07 | 0.120 | 0.126 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Front | 15mm | Ant 3 | DSI 1 | 349000 | 1745 | 1 | 21.82 | 23.20 | 1.374 | - | - | -0.1  | 0.200 | 0.275 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Back  | 15mm | Ant 3 | DSI 1 | 349000 | 1745 | 1 | 21.82 | 23.20 | 1.374 | - | - | -0.09 | 0.348 | 0.478 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Front | 15mm | Ant 3 | DSI 1 | 349000 | 1745 | 1 | 21.81 | 23.20 | 1.377 | - | - | 0.01  | 0.222 | 0.306 |
| 60      | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Back  | 15mm | Ant 3 | DSI 1 | 349000 | 1745 | 1 | 21.81 | 23.20 | 1.377 | - | - | -0.11 | 0.358 | 0.493 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Front | 15mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 19.99 | 21.20 | 1.321 | - | - | 0.06  | 0.135 | 0.178 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Back  | 15mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 19.99 | 21.20 | 1.321 | - | - | 0.06  | 0.224 | 0.296 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Front | 15mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 19.95 | 21.20 | 1.334 | - | - | 0.01  | 0.140 | 0.187 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Back  | 15mm | Ant 3 | DSI 5 | 349000 | 1745 | 1 | 19.95 | 21.20 | 1.334 | - | - | -0.19 | 0.226 | 0.301 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Front | 15mm | Ant 0 | DSI 1 | 349000 | 1745 | 1 | 20.87 | 21.70 | 1.211 | - | - | 0.16  | 0.251 | 0.304 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Back  | 15mm | Ant 0 | DSI 1 | 349000 | 1745 | 1 | 20.87 | 21.70 | 1.211 | - | - | -0.16 | 0.378 | 0.458 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Front | 15mm | Ant 0 | DSI 1 | 349000 | 1745 | 1 | 20.79 | 21.70 | 1.233 | - | - | -0.02 | 0.257 | 0.317 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Back  | 15mm | Ant 0 | DSI 1 | 349000 | 1745 | 1 | 20.79 | 21.70 | 1.233 | - | - | -0.17 | 0.388 | 0.478 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Front | 15mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 18.86 | 19.70 | 1.213 | - | - | 0.12  | 0.185 | 0.224 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Back  | 15mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 18.86 | 19.70 | 1.213 | - | - | 0.17  | 0.269 | 0.326 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Front | 15mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 18.85 | 19.70 | 1.216 | - | - | 0.15  | 0.192 | 0.234 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Back  | 15mm | Ant 0 | DSI 5 | 349000 | 1745 | 1 | 18.85 | 19.70 | 1.216 | - | - | 0.13  | 0.275 | 0.334 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Front | 15mm | Ant 4 | DSI 1 | 349000 | 1745 | 1 | 20.91 | 22.20 | 1.346 | - | - | 0.08  | 0.114 | 0.153 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Back  | 15mm | Ant 4 | DSI 1 | 349000 | 1745 | 1 | 20.91 | 22.20 | 1.346 | - | - | -0.07 | 0.229 | 0.308 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Front | 15mm | Ant 4 | DSI 1 | 349000 | 1745 | 1 | 20.88 | 22.20 | 1.355 | - | - | -0.02 | 0.117 | 0.159 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Back  | 15mm | Ant 4 | DSI 1 | 349000 | 1745 | 1 | 20.88 | 22.20 | 1.355 | - | - | -0.09 | 0.230 | 0.312 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Front | 15mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 19.06 | 20.20 | 1.300 | - | - | -0.07 | 0.072 | 0.094 |
|         | FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15            | Back  | 15mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 19.06 | 20.20 | 1.300 | - | - | 0.08  | 0.144 | 0.187 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Front | 15mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 19.04 | 20.20 | 1.306 | - | - | 0.14  | 0.074 | 0.097 |
|         | FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15            | Back  | 15mm | Ant 4 | DSI 5 | 349000 | 1745 | 1 | 19.04 | 20.20 | 1.306 | - | - | 0.18  | 0.145 | 0.189 |
| 1900MHz |             |     |      |     |     |                   |       |      |       |       |        |      |   |       |       |       |   |   |       |       |       |
|         | GSM1900     | -   | -    | -   | -   | GPRS (4 Tx slots) | Front | 15mm | Ant 3 | DSI 1 | 661    | 1880 | 1 | 24.40 | 24.80 | 1.096 | - | - | -0.02 | 0.122 | 0.134 |
|         | GSM1900     | -   | -    | -   | -   | GPRS (4 Tx slots) | Back  | 15mm | Ant 3 | DSI 1 | 661    | 1880 | 1 | 24.40 | 24.80 | 1.096 | - | - | 0.17  | 0.237 | 0.260 |
|         | GSM1900     | -   | -    | -   | -   | GPRS (4 Tx slots) | Front | 15mm | Ant 3 | DSI 5 | 661    | 1880 | 1 | 23.10 | 24.30 | 1.318 | - | - | 0     | 0.095 | 0.125 |
|         | GSM1900     | -   | -    | -   | -   | GPRS (4 Tx slots) | Back  | 15mm | Ant 3 | DSI 5 | 661    | 1880 | 1 | 23.10 | 24.30 | 1.318 | - | - | 0.12  | 0.192 | 0.253 |
|         | GSM1900     | -   | -    | -   | -   | GPRS (4 Tx slots) | Front | 15mm | Ant 0 | DSI 1 | 661    | 1880 | 1 | 23.29 | 24.80 | 1.416 | - | - | 0.17  | 0.224 | 0.317 |
| 61      | GSM1900     | -   | -    | -   | -   | GPRS (4 Tx slots) | Back  | 15mm | Ant 0 | DSI 1 | 661    | 1880 | 1 | 23.29 | 24.80 | 1.416 | - | - | -0.04 | 0.337 | 0.477 |
|         | GSM1900     | -   | -    | -   | -   | GPRS (4 Tx slots) | Front | 15mm | Ant 0 | DSI 5 | 661    | 1880 | 1 | 22.74 | 24.30 | 1.432 | - | - | -0.02 | 0.200 | 0.286 |
|         | GSM1900     | -   | -    | -   | -   | GPRS (4 Tx slots) | Back  | 15mm | Ant 0 | DSI 5 | 661    | 1880 | 1 | 22.74 | 24.30 | 1.432 | - | - | -0.07 | 0.300 | 0.430 |
|         | WCDMA II    | -   | -    | -   | -   | RMC 12.2Kbps      | Front | 15mm | Ant 3 | DSI 1 | 9400   | 1880 | 1 | 20.31 | 20.90 | 1.146 | - | - | 0.15  | 0.135 | 0.155 |
|         | WCDMA II    | -   | -    | -   | -   | RMC 12.2Kbps      | Back  | 15mm | Ant 3 | DSI 1 | 9400   | 1880 | 1 | 20.31 | 20.90 | 1.146 | - | - | 0.13  | 0.250 | 0.286 |
|         | WCDMA II    | -   | -    | -   | -   | RMC 12.2Kbps      | Front | 15mm | Ant 3 | DSI 5 | 9400   | 1880 | 1 | 18.24 | 18.90 | 1.164 | - | - | 0.11  | 0.085 | 0.099 |
|         | WCDMA II    | -   | -    | -   | -   | RMC 12.2Kbps      | Back  | 15mm | Ant 3 | DSI 5 | 9400   | 1880 | 1 | 18.24 | 18.90 | 1.164 | - | - | 0.12  | 0.158 | 0.184 |
|         | WCDMA II    | -   | -    | -   | -   | RMC 12.2Kbps      | Front | 15mm | Ant 0 | DSI 1 | 9400   | 1880 | 1 | 20.31 | 21.40 | 1.285 | - | - | 0.08  | 0.233 | 0.299 |
| 62      | WCDMA II    | -   | -    | -   | -   | RMC 12.2Kbps      | Back  | 15mm | Ant 0 | DSI 1 | 9400   | 1880 | 1 | 20.31 | 21.40 | 1.285 | - | - | 0.04  | 0.378 | 0.486 |
|         | WCDMA II    | -   | -    | -   | -   | RMC 12.2Kbps      | Front | 15mm | Ant 0 | DSI 5 | 9400   | 1880 | 1 | 18.28 | 19.40 | 1.294 | - | - | 0.05  | 0.147 | 0.190 |
|         | WCDMA II    | -   | -    | -   | -   | RMC 12.2Kbps      | Back  | 15mm | Ant 0 | DSI 5 | 9400   | 1880 | 1 | 18.28 | 19.40 | 1.294 | - | - | 0.1   | 0.239 | 0.309 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -                 | Front | 15mm | Ant 3 | DSI 1 | 18900  | 1880 | 1 | 19.79 | 20.30 | 1.125 | - | - | 0.14  | 0.121 | 0.136 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -                 | Back  | 15mm | Ant 3 | DSI 1 | 18900  | 1880 | 1 | 19.79 | 20.30 | 1.125 | - | - | 0.14  | 0.238 | 0.268 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -                 | Front | 15mm | Ant 3 | DSI 1 | 18900  | 1880 | 1 | 19.78 | 20.30 | 1.127 | - | - | -0.19 | 0.125 | 0.141 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -                 | Back  | 15mm | Ant 3 | DSI 1 | 18900  | 1880 | 1 | 19.78 | 20.30 | 1.127 | - | - | 0.01  | 0.242 | 0.273 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -                 | Front | 15mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 17.72 | 18.30 | 1.143 | - | - | -0.04 | 0.076 | 0.087 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -                 | Back  | 15mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 17.72 | 18.30 | 1.143 | - | - | 0.02  | 0.150 | 0.171 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -                 | Front | 15mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 17.65 | 18.30 | 1.161 | - | - | 0.14  | 0.079 | 0.092 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -                 | Back  | 15mm | Ant 3 | DSI 5 | 18900  | 1880 | 1 | 17.65 | 18.30 | 1.161 | - | - | 0.11  | 0.153 | 0.178 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -                 | Front | 15mm | Ant 0 | DSI 1 | 18900  | 1880 | 1 | 20.08 | 20.80 | 1.180 | - | - | 0.01  | 0.193 | 0.228 |
|         | LTE Band 2  | 20M | QPSK | 1   | 49  | -                 | Back  | 15mm | Ant 0 | DSI 1 | 18900  | 1880 | 1 | 20.08 | 20.80 | 1.180 | - | - | 0.11  | 0.333 | 0.393 |
|         | LTE Band 2  | 20M | QPSK | 50  | 24  | -                 | Front | 15mm | Ant 0 | DSI 1 | 18900  | 1880 | 1 | 20.04 | 20.80 | 1.191 | - | - | -0.19 | 0.192 | 0.229 |



# FCC SAR Test Report

Report No. : FA3O3018

|         |             |     |      |    |    |        |       |      |       |       |             |             |   |       |       |       |      |       |       |       |       |
|---------|-------------|-----|------|----|----|--------|-------|------|-------|-------|-------------|-------------|---|-------|-------|-------|------|-------|-------|-------|-------|
| 63      | LTE Band 2  | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 0 | DSI 1 | 18900       | 1880        | 1 | 20.04 | 20.80 | 1.191 | -    | -     | 0.02  | 0.334 | 0.398 |
|         | LTE Band 2  | 20M | QPSK | 1  | 49 | -      | Front | 15mm | Ant 0 | DSI 5 | 18900       | 1880        | 1 | 18.02 | 18.80 | 1.197 | -    | -     | 0.03  | 0.118 | 0.141 |
|         | LTE Band 2  | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 0 | DSI 5 | 18900       | 1880        | 1 | 18.02 | 18.80 | 1.197 | -    | -     | 0.17  | 0.210 | 0.251 |
|         | LTE Band 2  | 20M | QPSK | 50 | 24 | -      | Front | 15mm | Ant 0 | DSI 5 | 18900       | 1880        | 1 | 17.99 | 18.80 | 1.205 | -    | -     | -0.05 | 0.121 | 0.146 |
|         | LTE Band 2  | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 0 | DSI 5 | 18900       | 1880        | 1 | 17.99 | 18.80 | 1.205 | -    | -     | 0.03  | 0.211 | 0.254 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Front | 15mm | Ant 3 | DSI 1 | 376000      | 1880        | 1 | 19.94 | 20.70 | 1.191 | -    | -     | 0.15  | 0.146 | 0.174 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Back  | 15mm | Ant 3 | DSI 1 | 376000      | 1880        | 1 | 19.94 | 20.70 | 1.191 | -    | -     | 0.15  | 0.278 | 0.331 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Front | 15mm | Ant 3 | DSI 1 | 376000      | 1880        | 1 | 19.82 | 20.70 | 1.225 | -    | -     | 0.02  | 0.149 | 0.182 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Back  | 15mm | Ant 3 | DSI 1 | 376000      | 1880        | 1 | 19.82 | 20.70 | 1.225 | -    | -     | -0.03 | 0.282 | 0.345 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Front | 15mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 18.01 | 18.70 | 1.172 | -    | -     | 0.15  | 0.092 | 0.108 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Back  | 15mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 18.01 | 18.70 | 1.172 | -    | -     | 0.08  | 0.175 | 0.205 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Front | 15mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 17.96 | 18.70 | 1.186 | -    | -     | -0.03 | 0.094 | 0.111 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Back  | 15mm | Ant 3 | DSI 5 | 376000      | 1880        | 1 | 17.96 | 18.70 | 1.186 | -    | -     | 0.03  | 0.178 | 0.211 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 376000      | 1880        | 1 | 19.84 | 21.20 | 1.368 | -    | -     | 0.01  | 0.202 | 0.276 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 376000      | 1880        | 1 | 19.84 | 21.20 | 1.368 | -    | -     | -0.03 | 0.344 | 0.470 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 376000      | 1880        | 1 | 19.78 | 21.20 | 1.387 | -    | -     | 0.16  | 0.213 | 0.295 |
| 64      | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 376000      | 1880        | 1 | 19.78 | 21.20 | 1.387 | -    | -     | 0.17  | 0.359 | 0.498 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 376000      | 1880        | 2 | 19.78 | 21.20 | 1.387 | -    | -     | 0.05  | 0.353 | 0.490 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.56 | 19.20 | 1.459 | -    | -     | 0.17  | 0.127 | 0.185 |
|         | FR1 n2      | 20M | QPSK | 1  | 53 | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.56 | 19.20 | 1.459 | -    | -     | -0.04 | 0.217 | 0.317 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.54 | 19.20 | 1.466 | -    | -     | 0.06  | 0.134 | 0.196 |
|         | FR1 n2      | 20M | QPSK | 50 | 28 | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 376000      | 1880        | 1 | 17.54 | 19.20 | 1.466 | -    | -     | -0.18 | 0.227 | 0.333 |
| 2600MHz |             |     |      |    |    |        |       |      |       |       |             |             |   |       |       |       |      |       |       |       |       |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front | 15mm | Ant 3 | DSI 1 | 21100       | 2535        | 1 | 17.78 | 18.80 | 1.265 | -    | -     | -0.03 | 0.105 | 0.133 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 3 | DSI 1 | 21100       | 2535        | 1 | 17.78 | 18.80 | 1.265 | -    | -     | 0.02  | 0.165 | 0.209 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front | 15mm | Ant 3 | DSI 1 | 21100       | 2535        | 1 | 17.72 | 18.80 | 1.282 | -    | -     | -0.11 | 0.107 | 0.137 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 3 | DSI 1 | 21100       | 2535        | 1 | 17.72 | 18.80 | 1.282 | -    | -     | 0.04  | 0.175 | 0.224 |
|         | LTE Band 7C | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 3 | DSI 1 | 21100+20902 | 2535+2515.2 | 1 | 17.68 | 18.10 | 1.102 | -    | -     | 0.02  | 0.148 | 0.163 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front | 15mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.70 | 16.80 | 1.288 | -    | -     | -0.14 | 0.066 | 0.085 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.70 | 16.80 | 1.288 | -    | -     | 0.17  | 0.104 | 0.134 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front | 15mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.67 | 16.80 | 1.297 | -    | -     | 0.16  | 0.068 | 0.088 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 3 | DSI 5 | 21100       | 2535        | 1 | 15.67 | 16.80 | 1.297 | -    | -     | 0.15  | 0.106 | 0.138 |
|         | LTE Band 7C | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 3 | DSI 5 | 21100+20902 | 2535+2515.2 | 1 | 15.65 | 16.10 | 1.109 | -    | -     | -0.11 | 0.090 | 0.099 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front | 15mm | Ant 0 | DSI 1 | 21100       | 2535        | 1 | 20.84 | 21.30 | 1.112 | -    | -     | 0.06  | 0.226 | 0.251 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 0 | DSI 1 | 21100       | 2535        | 1 | 20.84 | 21.30 | 1.112 | -    | -     | -0.14 | 0.385 | 0.428 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front | 15mm | Ant 0 | DSI 1 | 21100       | 2535        | 1 | 20.84 | 21.30 | 1.112 | -    | -     | -0.06 | 0.238 | 0.265 |
| 65      | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 0 | DSI 1 | 21100       | 2535        | 1 | 20.84 | 21.30 | 1.112 | -    | -     | 0.09  | 0.449 | 0.499 |
|         | LTE Band 7C | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 0 | DSI 1 | 21100+20902 | 2535+2515.2 | 1 | 20.56 | 20.60 | 1.009 | -    | -     | 0.09  | 0.380 | 0.383 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front | 15mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.78 | 19.30 | 1.127 | -    | -     | 0.04  | 0.153 | 0.172 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.78 | 19.30 | 1.127 | -    | -     | -0.1  | 0.297 | 0.335 |
|         | LTE Band 7C | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 0 | DSI 5 | 21100+20902 | 2535+2515.2 | 1 | 18.52 | 18.60 | 1.019 | -    | -     | 0.12  | 0.246 | 0.251 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front | 15mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.74 | 19.30 | 1.138 | -    | -     | 0.02  | 0.150 | 0.171 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 0 | DSI 5 | 21100       | 2535        | 1 | 18.74 | 19.30 | 1.138 | -    | -     | -0.14 | 0.291 | 0.331 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front | 15mm | Ant 4 | DSI 1 | 21100       | 2535        | 1 | 19.13 | 20.30 | 1.309 | -    | -     | 0.03  | 0.057 | 0.075 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 4 | DSI 1 | 21100       | 2535        | 1 | 19.13 | 20.30 | 1.309 | -    | -     | -0.08 | 0.153 | 0.200 |
|         | LTE Band 7C | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 4 | DSI 1 | 21100+20902 | 2535+2515.2 | 1 | 19.12 | 19.60 | 1.117 | -    | -     | 0.02  | 0.140 | 0.156 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front | 15mm | Ant 4 | DSI 1 | 21100       | 2535        | 1 | 19.13 | 20.30 | 1.309 | -    | -     | 0.02  | 0.049 | 0.064 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 4 | DSI 1 | 21100       | 2535        | 1 | 19.13 | 20.30 | 1.309 | -    | -     | -0.01 | 0.146 | 0.191 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Front | 15mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.09 | 18.30 | 1.321 | -    | -     | 0.14  | 0.031 | 0.041 |
|         | LTE Band 7  | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.09 | 18.30 | 1.321 | -    | -     | 0.03  | 0.090 | 0.119 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Front | 15mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.08 | 18.30 | 1.324 | -    | -     | -0.12 | 0.036 | 0.048 |
|         | LTE Band 7  | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 4 | DSI 5 | 21100       | 2535        | 1 | 17.08 | 18.30 | 1.324 | -    | -     | 0.08  | 0.095 | 0.126 |
|         | LTE Band 7C | 20M | QPSK | 50 | 24 | -      | Back  | 15mm | Ant 4 | DSI 5 | 21100+20902 | 2535+2515.2 | 1 | 17.05 | 17.60 | 1.135 | -    | -     | -0.06 | 0.080 | 0.091 |
|         | LTE Band 38 | 20M | QPSK | 1  | 49 | -      | Front | 15mm | Ant 3 | DSI 1 | 38000       | 2595        | 1 | 20.29 | 21.40 | 1.291 | 62.9 | 1.006 | 0.15  | 0.120 | 0.156 |
|         | LTE Band 38 | 20M | QPSK | 1  | 49 | -      | Back  | 15mm | Ant 3 | DSI 1 | 38000       | 2595        | 1 | 20.29 | 21.40 | 1.291 | 62.9 | 1.006 | 0.08  | 0.174 | 0.226 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |                 |     |      |    |    |   |       |      |       |       |             |               |   |       |       |       |      |       |       |       |       |
|----|-----------------|-----|------|----|----|---|-------|------|-------|-------|-------------|---------------|---|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 3 | DSI 1 | 38000       | 2595          | 1 | 20.27 | 21.40 | 1.297 | 62.9 | 1.006 | 0.15  | 0.124 | 0.162 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 1 | 38000       | 2595          | 1 | 20.27 | 21.40 | 1.297 | 62.9 | 1.006 | 0.07  | 0.181 | 0.236 |
|    | LTE Band 38C    | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 1 | 37901+38099 | 2585.1+2604.9 | 1 | 20.25 | 20.60 | 1.084 | 62.9 | 1.006 | 0.07  | 0.153 | 0.167 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 3 | DSI 5 | 38000       | 2595          | 1 | 18.29 | 19.40 | 1.291 | 62.9 | 1.006 | 0.02  | 0.076 | 0.099 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 3 | DSI 5 | 38000       | 2595          | 1 | 18.29 | 19.40 | 1.291 | 62.9 | 1.006 | -0.12 | 0.110 | 0.143 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 3 | DSI 5 | 38000       | 2595          | 1 | 18.24 | 19.40 | 1.306 | 62.9 | 1.006 | -0.05 | 0.078 | 0.102 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 5 | 38000       | 2595          | 1 | 18.24 | 19.40 | 1.306 | 62.9 | 1.006 | 0     | 0.114 | 0.150 |
|    | LTE Band 38C    | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 5 | 37901+38099 | 2585.1+2604.9 | 1 | 18.19 | 18.60 | 1.099 | 62.9 | 1.006 | 0.1   | 0.096 | 0.107 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 0 | DSI 1 | 38000       | 2595          | 1 | 24.08 | 24.40 | 1.076 | 62.9 | 1.006 | 0.11  | 0.105 | 0.114 |
| 66 | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 1 | 38000       | 2595          | 1 | 24.08 | 24.40 | 1.076 | 62.9 | 1.006 | -0.15 | 0.347 | 0.376 |
|    | LTE Band 38C    | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 1 | 37901+38099 | 2585.1+2604.9 | 1 | 23.51 | 23.60 | 1.021 | 62.9 | 1.006 | -0.15 | 0.293 | 0.301 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 0 | DSI 1 | 38000       | 2595          | 1 | 23.07 | 23.40 | 1.079 | 62.9 | 1.006 | 0.05  | 0.102 | 0.111 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 0 | DSI 1 | 38000       | 2595          | 1 | 23.07 | 23.40 | 1.079 | 62.9 | 1.006 | 0.13  | 0.311 | 0.338 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 0 | DSI 5 | 38000       | 2595          | 1 | 22.05 | 22.40 | 1.084 | 62.9 | 1.006 | -0.13 | 0.083 | 0.091 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 5 | 38000       | 2595          | 1 | 22.05 | 22.40 | 1.084 | 62.9 | 1.006 | -0.05 | 0.276 | 0.301 |
|    | LTE Band 38C    | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 5 | 37901+38099 | 2585.1+2604.9 | 1 | 21.49 | 21.60 | 1.026 | 62.9 | 1.006 | -0.11 | 0.233 | 0.241 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 0 | DSI 5 | 38000       | 2595          | 1 | 21.79 | 22.40 | 1.151 | 62.9 | 1.006 | -0.06 | 0.078 | 0.090 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 0 | DSI 5 | 38000       | 2595          | 1 | 21.79 | 22.40 | 1.151 | 62.9 | 1.006 | -0.15 | 0.247 | 0.286 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 4 | DSI 1 | 38000       | 2595          | 1 | 21.19 | 22.40 | 1.321 | 62.9 | 1.006 | -0.16 | 0.056 | 0.074 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 4 | DSI 1 | 38000       | 2595          | 1 | 21.19 | 22.40 | 1.321 | 62.9 | 1.006 | 0.13  | 0.141 | 0.187 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 4 | DSI 1 | 38000       | 2595          | 1 | 20.99 | 22.40 | 1.384 | 62.9 | 1.006 | 0     | 0.057 | 0.079 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 4 | DSI 1 | 38000       | 2595          | 1 | 20.99 | 22.40 | 1.384 | 62.9 | 1.006 | 0.13  | 0.144 | 0.200 |
|    | LTE Band 38C    | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 4 | DSI 1 | 37901+38099 | 2585.1+2604.9 | 1 | 20.75 | 21.60 | 1.216 | 62.9 | 1.006 | 0.13  | 0.122 | 0.149 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 4 | DSI 5 | 38000       | 2595          | 1 | 18.97 | 20.40 | 1.390 | 62.9 | 1.006 | 0.06  | 0.035 | 0.049 |
|    | LTE Band 38     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 4 | DSI 5 | 38000       | 2595          | 1 | 18.97 | 20.40 | 1.390 | 62.9 | 1.006 | 0.01  | 0.089 | 0.124 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 4 | DSI 5 | 38000       | 2595          | 1 | 18.85 | 20.40 | 1.429 | 62.9 | 1.006 | -0.01 | 0.036 | 0.052 |
|    | LTE Band 38     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 4 | DSI 5 | 38000       | 2595          | 1 | 18.85 | 20.40 | 1.429 | 62.9 | 1.006 | 0.04  | 0.091 | 0.131 |
|    | LTE Band 38C    | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 4 | DSI 5 | 37901+38099 | 2585.1+2604.9 | 1 | 18.76 | 19.60 | 1.213 | 62.9 | 1.006 | 0.08  | 0.077 | 0.094 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 3 | DSI 1 | 40620       | 2593          | 1 | 19.05 | 19.80 | 1.189 | 62.9 | 1.006 | -0.1  | 0.083 | 0.099 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 3 | DSI 1 | 40620       | 2593          | 1 | 19.05 | 19.80 | 1.189 | 62.9 | 1.006 | 0.06  | 0.124 | 0.148 |
|    | LTE Band 41     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 3 | DSI 1 | 40620       | 2593          | 1 | 19.02 | 19.80 | 1.197 | 62.9 | 1.006 | -0.11 | 0.087 | 0.105 |
|    | LTE Band 41     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 1 | 40620       | 2593          | 1 | 19.02 | 19.80 | 1.197 | 62.9 | 1.006 | -0.04 | 0.126 | 0.152 |
|    | LTE Band 41C    | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 1 | 40620+40422 | 2593+2573.2   | 1 | 18.72 | 19.30 | 1.143 | 62.9 | 1.006 | 0.06  | 0.107 | 0.123 |
|    | LTE Band 41 PC2 | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 1 | 40620       | 2593          | 1 | 21.91 | 22.80 | 1.227 | 42.9 | 1.009 | 0.17  | 0.167 | 0.207 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 3 | DSI 5 | 40620       | 2593          | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | 0.11  | 0.052 | 0.062 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 3 | DSI 5 | 40620       | 2593          | 1 | 17.07 | 17.80 | 1.183 | 62.9 | 1.006 | 0.15  | 0.075 | 0.089 |
|    | LTE Band 41     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 3 | DSI 5 | 40620       | 2593          | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | 0.05  | 0.055 | 0.067 |
|    | LTE Band 41     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 5 | 40620       | 2593          | 1 | 16.96 | 17.80 | 1.213 | 62.9 | 1.006 | -0.06 | 0.077 | 0.094 |
|    | LTE Band 41C    | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 5 | 40620+40422 | 2593+2573.2   | 1 | 16.86 | 17.30 | 1.107 | 62.9 | 1.006 | 0.18  | 0.065 | 0.072 |
|    | LTE Band 41 PC2 | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 3 | DSI 5 | 40620       | 2593          | 1 | 19.87 | 20.80 | 1.239 | 42.9 | 1.009 | 0.08  | 0.105 | 0.131 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 0 | DSI 1 | 40620       | 2593          | 1 | 22.62 | 22.80 | 1.042 | 62.9 | 1.006 | -0.01 | 0.154 | 0.161 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 1 | 40620       | 2593          | 1 | 22.62 | 22.80 | 1.042 | 62.9 | 1.006 | -0.16 | 0.234 | 0.245 |
|    | LTE Band 41C    | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 1 | 40620+40422 | 2593+2573.2   | 1 | 22.17 | 22.30 | 1.030 | 62.9 | 1.006 | -0.16 | 0.146 | 0.152 |
| 67 | LTE Band 41 PC2 | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 1 | 40620       | 2593          | 1 | 25.63 | 25.80 | 1.040 | 42.9 | 1.009 | 0.08  | 0.341 | 0.358 |
|    | LTE Band 41     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 0 | DSI 1 | 40620       | 2593          | 1 | 21.65 | 21.80 | 1.035 | 62.9 | 1.006 | -0.14 | 0.120 | 0.125 |
|    | LTE Band 41     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 0 | DSI 1 | 40620       | 2593          | 1 | 21.65 | 21.80 | 1.035 | 62.9 | 1.006 | 0.08  | 0.218 | 0.227 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 0 | DSI 5 | 40620       | 2593          | 1 | 20.59 | 20.80 | 1.050 | 62.9 | 1.006 | -0.05 | 0.097 | 0.102 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 5 | 40620       | 2593          | 1 | 20.59 | 20.80 | 1.050 | 62.9 | 1.006 | 0     | 0.142 | 0.150 |
|    | LTE Band 41C    | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 5 | 40620+40422 | 2593+2573.2   | 1 | 20.11 | 20.30 | 1.045 | 62.9 | 1.006 | 0.1   | 0.092 | 0.097 |
|    | LTE Band 41 PC2 | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 0 | DSI 5 | 40620       | 2593          | 1 | 23.71 | 23.80 | 1.021 | 42.9 | 1.009 | 0.12  | 0.215 | 0.221 |
|    | LTE Band 41     | 20M | QPSK | 50 | 24 | - | Front | 15mm | Ant 0 | DSI 5 | 40620       | 2593          | 1 | 20.50 | 20.80 | 1.072 | 62.9 | 1.006 | -0.04 | 0.076 | 0.082 |
|    | LTE Band 41     | 20M | QPSK | 50 | 24 | - | Back  | 15mm | Ant 0 | DSI 5 | 40620       | 2593          | 1 | 20.50 | 20.80 | 1.072 | 62.9 | 1.006 | -0.13 | 0.097 | 0.105 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Front | 15mm | Ant 4 | DSI 1 | 40620       | 2593          | 1 | 19.97 | 20.80 | 1.211 | 62.9 | 1.006 | -0.12 | 0.040 | 0.049 |
|    | LTE Band 41     | 20M | QPSK | 1  | 49 | - | Back  | 15mm | Ant 4 | DSI 1 | 40620       | 2593          | 1 | 19.97 | 20.80 | 1.211 | 62.9 | 1.006 | 0.05  | 0.100 | 0.122 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |                 |     |      |     |     |        |       |      |       |       |                 |                 |   |       |       |       |      |       |       |       |       |
|----|-----------------|-----|------|-----|-----|--------|-------|------|-------|-------|-----------------|-----------------|---|-------|-------|-------|------|-------|-------|-------|-------|
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 4 | DSI 1 | 40620           | 2593            | 1 | 19.95 | 20.80 | 1.216 | 62.9 | 1.006 | 0.07  | 0.043 | 0.053 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 4 | DSI 1 | 40620           | 2593            | 1 | 19.95 | 20.80 | 1.216 | 62.9 | 1.006 | 0.19  | 0.119 | 0.146 |
|    | LTE Band 41C    | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 4 | DSI 1 | 40620+<br>40422 | 2593+<br>2573.2 | 1 | 19.22 | 20.30 | 1.282 | 62.9 | 1.006 | 0.19  | 0.085 | 0.110 |
|    | LTE Band 41 PC2 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 4 | DSI 1 | 40620           | 2593            | 1 | 22.53 | 23.80 | 1.340 | 42.9 | 1.009 | -0.18 | 0.140 | 0.189 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 4 | DSI 5 | 40620           | 2593            | 1 | 18.14 | 18.80 | 1.164 | 62.9 | 1.006 | -0.1  | 0.027 | 0.032 |
|    | LTE Band 41     | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 4 | DSI 5 | 40620           | 2593            | 1 | 18.14 | 18.80 | 1.164 | 62.9 | 1.006 | 0.12  | 0.078 | 0.091 |
|    | LTE Band 41C    | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 4 | DSI 5 | 40620+<br>40422 | 2593+<br>2573.2 | 1 | 17.34 | 18.30 | 1.247 | 62.9 | 1.006 | 0.01  | 0.053 | 0.067 |
|    | LTE Band 41 PC2 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 4 | DSI 5 | 40620           | 2593            | 1 | 20.60 | 21.80 | 1.318 | 42.9 | 1.009 | 0.08  | 0.088 | 0.117 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 4 | DSI 5 | 40620           | 2593            | 1 | 18.11 | 18.80 | 1.172 | 62.9 | 1.006 | 0.13  | 0.020 | 0.024 |
|    | LTE Band 41     | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 4 | DSI 5 | 40620           | 2593            | 1 | 18.11 | 18.80 | 1.172 | 62.9 | 1.006 | 0.16  | 0.068 | 0.080 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 3 | DSI 1 | 507000          | 2535            | 1 | 17.42 | 18.20 | 1.197 | -    | -     | -0.19 | 0.106 | 0.127 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 3 | DSI 1 | 507000          | 2535            | 1 | 17.42 | 18.20 | 1.197 | -    | -     | -0.17 | 0.179 | 0.214 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 3 | DSI 1 | 507000          | 2535            | 1 | 17.40 | 18.20 | 1.202 | -    | -     | 0.03  | 0.102 | 0.123 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 3 | DSI 1 | 507000          | 2535            | 1 | 17.40 | 18.20 | 1.202 | -    | -     | 0.15  | 0.175 | 0.210 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 3 | DSI 5 | 507000          | 2535            | 1 | 15.65 | 16.20 | 1.135 | -    | -     | -0.06 | 0.067 | 0.076 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 3 | DSI 5 | 507000          | 2535            | 1 | 15.65 | 16.20 | 1.135 | -    | -     | 0.1   | 0.115 | 0.131 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 3 | DSI 5 | 507000          | 2535            | 1 | 15.63 | 16.20 | 1.140 | -    | -     | -0.02 | 0.065 | 0.074 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 3 | DSI 5 | 507000          | 2535            | 1 | 15.63 | 16.20 | 1.140 | -    | -     | -0.12 | 0.112 | 0.128 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 507000          | 2535            | 1 | 19.54 | 20.20 | 1.164 | -    | -     | -0.14 | 0.224 | 0.261 |
| 68 | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 507000          | 2535            | 1 | 19.54 | 20.20 | 1.164 | -    | -     | -0.01 | 0.345 | 0.402 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 507000          | 2535            | 1 | 19.51 | 20.20 | 1.172 | -    | -     | -0.07 | 0.214 | 0.251 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 507000          | 2535            | 1 | 19.51 | 20.20 | 1.172 | -    | -     | 0.09  | 0.315 | 0.369 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 507000          | 2535            | 1 | 17.57 | 18.20 | 1.156 | -    | -     | 0     | 0.141 | 0.163 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 507000          | 2535            | 1 | 17.57 | 18.20 | 1.156 | -    | -     | 0.07  | 0.218 | 0.252 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 507000          | 2535            | 1 | 17.56 | 18.20 | 1.159 | -    | -     | 0.06  | 0.135 | 0.156 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 507000          | 2535            | 1 | 17.56 | 18.20 | 1.159 | -    | -     | 0.18  | 0.199 | 0.231 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 4 | DSI 1 | 507000          | 2535            | 1 | 18.66 | 19.70 | 1.271 | -    | -     | -0.08 | 0.060 | 0.076 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 4 | DSI 1 | 507000          | 2535            | 1 | 18.66 | 19.70 | 1.271 | -    | -     | -0.19 | 0.157 | 0.199 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 4 | DSI 1 | 507000          | 2535            | 1 | 18.62 | 19.70 | 1.282 | -    | -     | 0.15  | 0.055 | 0.071 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 4 | DSI 1 | 507000          | 2535            | 1 | 18.62 | 19.70 | 1.282 | -    | -     | 0.16  | 0.154 | 0.197 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 4 | DSI 5 | 507000          | 2535            | 1 | 16.66 | 17.70 | 1.271 | -    | -     | 0.16  | 0.038 | 0.048 |
|    | FR1 n7          | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 4 | DSI 5 | 507000          | 2535            | 1 | 16.66 | 17.70 | 1.271 | -    | -     | -0.06 | 0.099 | 0.126 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 4 | DSI 5 | 507000          | 2535            | 1 | 16.63 | 17.70 | 1.279 | -    | -     | -0.15 | 0.037 | 0.047 |
|    | FR1 n7          | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 4 | DSI 5 | 507000          | 2535            | 1 | 16.63 | 17.70 | 1.279 | -    | -     | 0     | 0.098 | 0.125 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Front | 15mm | Ant 3 | DSI 1 | 519000          | 2595            | 1 | 17.64 | 19.20 | 1.432 | -    | -     | 0     | 0.125 | 0.179 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Back  | 15mm | Ant 3 | DSI 1 | 519000          | 2595            | 1 | 17.64 | 19.20 | 1.432 | -    | -     | 0.16  | 0.178 | 0.255 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Front | 15mm | Ant 3 | DSI 1 | 519000          | 2595            | 1 | 17.61 | 19.20 | 1.442 | -    | -     | 0.18  | 0.120 | 0.173 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Back  | 15mm | Ant 3 | DSI 1 | 519000          | 2595            | 1 | 17.61 | 19.20 | 1.442 | -    | -     | 0.13  | 0.174 | 0.251 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Front | 15mm | Ant 3 | DSI 5 | 519000          | 2595            | 1 | 15.64 | 17.20 | 1.432 | -    | -     | -0.1  | 0.078 | 0.112 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Back  | 15mm | Ant 3 | DSI 5 | 519000          | 2595            | 1 | 15.64 | 17.20 | 1.432 | -    | -     | -0.02 | 0.115 | 0.165 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Front | 15mm | Ant 3 | DSI 5 | 519000          | 2595            | 1 | 15.59 | 17.20 | 1.449 | -    | -     | -0.14 | 0.076 | 0.110 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Back  | 15mm | Ant 3 | DSI 5 | 519000          | 2595            | 1 | 15.59 | 17.20 | 1.449 | -    | -     | 0.15  | 0.110 | 0.159 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Front | 15mm | Ant 0 | DSI 1 | 519000          | 2595            | 1 | 20.15 | 21.70 | 1.429 | -    | -     | -0.16 | 0.093 | 0.133 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Back  | 15mm | Ant 0 | DSI 1 | 519000          | 2595            | 1 | 20.15 | 21.70 | 1.429 | -    | -     | -0.11 | 0.235 | 0.336 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Front | 15mm | Ant 0 | DSI 1 | 519000          | 2595            | 1 | 20.07 | 21.70 | 1.455 | -    | -     | -0.18 | 0.098 | 0.143 |
| 69 | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Back  | 15mm | Ant 0 | DSI 1 | 519000          | 2595            | 1 | 20.07 | 21.70 | 1.455 | -    | -     | 0.18  | 0.284 | 0.413 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Front | 15mm | Ant 0 | DSI 5 | 519000          | 2595            | 1 | 18.12 | 19.70 | 1.439 | -    | -     | 0.04  | 0.059 | 0.085 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Back  | 15mm | Ant 0 | DSI 5 | 519000          | 2595            | 1 | 18.12 | 19.70 | 1.439 | -    | -     | -0.18 | 0.175 | 0.252 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Front | 15mm | Ant 0 | DSI 5 | 519000          | 2595            | 1 | 18.08 | 19.70 | 1.452 | -    | -     | 0.19  | 0.062 | 0.090 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Back  | 15mm | Ant 0 | DSI 5 | 519000          | 2595            | 1 | 18.08 | 19.70 | 1.452 | -    | -     | 0.17  | 0.179 | 0.260 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Front | 15mm | Ant 4 | DSI 1 | 519000          | 2595            | 1 | 17.93 | 19.70 | 1.503 | -    | -     | -0.08 | 0.046 | 0.069 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Back  | 15mm | Ant 4 | DSI 1 | 519000          | 2595            | 1 | 17.93 | 19.70 | 1.503 | -    | -     | 0.14  | 0.241 | 0.362 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Front | 15mm | Ant 4 | DSI 1 | 519000          | 2595            | 1 | 17.87 | 19.70 | 1.524 | -    | -     | -0.16 | 0.045 | 0.069 |
|    | FR1 n38         | 40M | QPSK | 50  | 28  | DFT-30 | Back  | 15mm | Ant 4 | DSI 1 | 519000          | 2595            | 1 | 17.87 | 19.70 | 1.524 | -    | -     | -0.02 | 0.235 | 0.358 |
|    | FR1 n38         | 40M | QPSK | 1   | 53  | DFT-30 | Front | 15mm | Ant 4 | DSI 5 | 519000          | 2595            | 1 | 15.94 | 17.70 | 1.500 | -    | -     | -0.19 | 0.029 | 0.043 |



# FCC SAR Test Report

Report No. : FA3O3018

|    |             |      |      |     |     |        |       |      |       |       |        |         |   |       |       |       |   |   |       |       |       |
|----|-------------|------|------|-----|-----|--------|-------|------|-------|-------|--------|---------|---|-------|-------|-------|---|---|-------|-------|-------|
|    | FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Back  | 15mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.94 | 17.70 | 1.500 | - | - | -0.04 | 0.152 | 0.228 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Front | 15mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.90 | 17.70 | 1.514 | - | - | -0.03 | 0.028 | 0.042 |
|    | FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Back  | 15mm | Ant 4 | DSI 5 | 519000 | 2595    | 1 | 15.90 | 17.70 | 1.514 | - | - | -0.19 | 0.141 | 0.213 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 3 | DSI 1 | 518598 | 2592.99 | 1 | 18.64 | 19.70 | 1.276 | - | - | 0.02  | 0.129 | 0.165 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 3 | DSI 1 | 518598 | 2592.99 | 1 | 18.64 | 19.70 | 1.276 | - | - | 0     | 0.195 | 0.249 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 3 | DSI 1 | 518598 | 2592.99 | 1 | 18.60 | 19.70 | 1.288 | - | - | -0.09 | 0.133 | 0.171 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 3 | DSI 1 | 518598 | 2592.99 | 1 | 18.60 | 19.70 | 1.288 | - | - | -0.14 | 0.197 | 0.254 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.59 | 17.70 | 1.291 | - | - | 0.12  | 0.081 | 0.105 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.59 | 17.70 | 1.291 | - | - | 0     | 0.123 | 0.159 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.50 | 17.70 | 1.318 | - | - | -0.13 | 0.084 | 0.111 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 1 | 16.50 | 17.70 | 1.318 | - | - | -0.14 | 0.124 | 0.163 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 1 | 20.32 | 22.20 | 1.542 | - | - | 0.05  | 0.250 | 0.385 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 1 | 20.32 | 22.20 | 1.542 | - | - | 0.02  | 0.328 | 0.506 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 1 | 20.23 | 22.20 | 1.574 | - | - | 0.15  | 0.256 | 0.403 |
| 70 | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 1 | 20.23 | 22.20 | 1.574 | - | - | -0.04 | 0.384 | 0.604 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 2 | 20.23 | 22.20 | 1.574 | - | - | -0.04 | 0.373 | 0.587 |
|    | FR1 n41 PC2 | 100M | QPSK | 270 | 0   | DFT-30 | Back  | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 1 | 20.20 | 22.20 | 1.585 | - | - | 0.03  | 0.341 | 0.540 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | -0.08 | 0.172 | 0.265 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.33 | 20.20 | 1.538 | - | - | 0.19  | 0.227 | 0.349 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.21 | 20.20 | 1.581 | - | - | 0.15  | 0.174 | 0.275 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 1 | 18.21 | 20.20 | 1.581 | - | - | -0.17 | 0.232 | 0.367 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 4 | DSI 1 | 518598 | 2592.99 | 1 | 18.85 | 20.70 | 1.531 | - | - | -0.17 | 0.067 | 0.103 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 4 | DSI 1 | 518598 | 2592.99 | 1 | 18.85 | 20.70 | 1.531 | - | - | -0.19 | 0.165 | 0.253 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 4 | DSI 1 | 518598 | 2592.99 | 1 | 18.79 | 20.70 | 1.552 | - | - | 0.1   | 0.070 | 0.109 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 4 | DSI 1 | 518598 | 2592.99 | 1 | 18.79 | 20.70 | 1.552 | - | - | 0.15  | 0.171 | 0.265 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 16.95 | 18.70 | 1.496 | - | - | -0.15 | 0.042 | 0.063 |
|    | FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 16.95 | 18.70 | 1.496 | - | - | -0.02 | 0.104 | 0.156 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 16.92 | 18.70 | 1.507 | - | - | 0.04  | 0.044 | 0.066 |
|    | FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 1 | 16.92 | 18.70 | 1.507 | - | - | 0.13  | 0.108 | 0.163 |



&lt;ENDC&gt;

| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Antenna | Power State | Ch.    | Freq. (MHz) | Power Setting | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|--------|---------------|----------|---------|-------------|--------|-------------|---------------|--------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 750MHz   |             |          |            |         |           |        |               |          |         |             |        |             |               |        |                     |                     |                        |                  |                        |                        |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Front         | 15mm     | Ant 1   | DSI 1       | 23095  | 707.5       | 19.5          | 1      | 20.98               | 21.20               | 1.052                  | -0.15            | 0.074                  | 0.078                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Back          | 15mm     | Ant 1   | DSI 1       | 23095  | 707.5       | 19.5          | 1      | 20.98               | 21.20               | 1.052                  | -0.13            | 0.109                  | 0.115                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Front         | 15mm     | Ant 1   | DSI 1       | 23095  | 707.5       | 19.5          | 1      | 20.96               | 21.20               | 1.057                  | 0.14             | 0.075                  | 0.079                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Back          | 15mm     | Ant 1   | DSI 1       | 23095  | 707.5       | 19.5          | 1      | 20.96               | 21.20               | 1.057                  | 0.02             | 0.113                  | 0.119                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Front         | 15mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 17.5          | 1      | 18.82               | 19.20               | 1.091                  | 0.03             | 0.052                  | 0.057                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Back          | 15mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 17.5          | 1      | 18.82               | 19.20               | 1.091                  | -0.03            | 0.077                  | 0.084                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Front         | 15mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 17.5          | 1      | 18.75               | 19.20               | 1.109                  | -0.09            | 0.054                  | 0.060                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Back          | 15mm     | Ant 1   | DSI 5       | 23095  | 707.5       | 17.5          | 1      | 18.75               | 19.20               | 1.109                  | 0.1              | 0.080                  | 0.089                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Front         | 15mm     | Ant 0   | DSI 1       | 23095  | 707.5       | 22            | 1      | 22.28               | 23.70               | 1.387                  | 0.12             | 0.085                  | 0.118                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Back          | 15mm     | Ant 0   | DSI 1       | 23095  | 707.5       | 22            | 1      | 22.28               | 23.70               | 1.387                  | -0.07            | 0.113                  | 0.157                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Front         | 15mm     | Ant 0   | DSI 1       | 23095  | 707.5       | 22            | 1      | 22.22               | 23.70               | 1.406                  | -0.03            | 0.081                  | 0.114                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Back          | 15mm     | Ant 0   | DSI 1       | 23095  | 707.5       | 22            | 1      | 22.22               | 23.70               | 1.406                  | 0.01             | 0.103                  | 0.145                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Front         | 15mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 20            | 1      | 20.28               | 21.70               | 1.387                  | 0.07             | 0.054                  | 0.075                  |
|          | LTE Band 12 | 10M      | QPSK       | 1       | 25        | -      | Back          | 15mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 20            | 1      | 20.28               | 21.70               | 1.387                  | -0.18            | 0.071                  | 0.098                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Front         | 15mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 20            | 1      | 20.25               | 21.70               | 1.396                  | 0.18             | 0.051                  | 0.071                  |
|          | LTE Band 12 | 10M      | QPSK       | 25      | 12        | -      | Back          | 15mm     | Ant 0   | DSI 5       | 23095  | 707.5       | 20            | 1      | 20.25               | 21.70               | 1.396                  | -0.01            | 0.065                  | 0.091                  |
| 835MHz   |             |          |            |         |           |        |               |          |         |             |        |             |               |        |                     |                     |                        |                  |                        |                        |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Front         | 15mm     | Ant 1   | DSI 1       | 20525  | 836.5       | 17            | 1      | 18.28               | 18.50               | 1.052                  | -0.04            | 0.121                  | 0.127                  |
| 71       | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Back          | 15mm     | Ant 1   | DSI 1       | 20525  | 836.5       | 17            | 1      | 18.28               | 18.50               | 1.052                  | -0.03            | 0.189                  | 0.199                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Front         | 15mm     | Ant 1   | DSI 1       | 20525  | 836.5       | 17            | 1      | 18.25               | 18.50               | 1.059                  | 0.05             | 0.108                  | 0.114                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Back          | 15mm     | Ant 1   | DSI 1       | 20525  | 836.5       | 17            | 1      | 18.25               | 18.50               | 1.059                  | 0.13             | 0.175                  | 0.185                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Front         | 15mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 15.5          | 1      | 16.72               | 17.00               | 1.067                  | 0.03             | 0.086                  | 0.091                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Back          | 15mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 15.5          | 1      | 16.72               | 17.00               | 1.067                  | 0.08             | 0.134                  | 0.143                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Front         | 15mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 15.5          | 1      | 16.66               | 17.00               | 1.081                  | -0.12            | 0.077                  | 0.083                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Back          | 15mm     | Ant 1   | DSI 5       | 20525  | 836.5       | 15.5          | 1      | 16.66               | 17.00               | 1.081                  | -0.18            | 0.124                  | 0.134                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Front         | 15mm     | Ant 0   | DSI 1       | 20525  | 836.5       | 21            | 1      | 21.27               | 22.50               | 1.327                  | 0.05             | 0.101                  | 0.134                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Back          | 15mm     | Ant 0   | DSI 1       | 20525  | 836.5       | 21            | 1      | 21.27               | 22.50               | 1.327                  | 0.06             | 0.121                  | 0.161                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Front         | 15mm     | Ant 0   | DSI 1       | 20525  | 836.5       | 21            | 1      | 21.20               | 22.50               | 1.349                  | 0.16             | 0.076                  | 0.103                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Back          | 15mm     | Ant 0   | DSI 1       | 20525  | 836.5       | 21            | 1      | 21.20               | 22.50               | 1.349                  | 0.15             | 0.091                  | 0.123                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Front         | 15mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 19            | 1      | 19.22               | 20.50               | 1.343                  | -0.1             | 0.072                  | 0.096                  |
|          | LTE Band 5  | 10M      | QPSK       | 1       | 25        | -      | Back          | 15mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 19            | 1      | 19.22               | 20.50               | 1.343                  | -0.15            | 0.086                  | 0.115                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Front         | 15mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 19            | 1      | 19.20               | 20.50               | 1.349                  | 0.02             | 0.054                  | 0.073                  |
|          | LTE Band 5  | 10M      | QPSK       | 25      | 12        | -      | Back          | 15mm     | Ant 0   | DSI 5       | 20525  | 836.5       | 19            | 1      | 19.20               | 20.50               | 1.349                  | -0.09            | 0.064                  | 0.087                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Front         | 15mm     | Ant 1   | DSI 1       | 167300 | 836.5       | 17            | 1      | 18.42               | 19.70               | 1.343                  | -0.13            | 0.151                  | 0.203                  |
| 72       | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Back          | 15mm     | Ant 1   | DSI 1       | 167300 | 836.5       | 17            | 1      | 18.42               | 19.70               | 1.343                  | -0.11            | 0.223                  | 0.299                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 15mm     | Ant 1   | DSI 1       | 167300 | 836.5       | 17            | 1      | 18.37               | 19.70               | 1.358                  | 0                | 0.142                  | 0.193                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 15mm     | Ant 1   | DSI 1       | 167300 | 836.5       | 17            | 1      | 18.37               | 19.70               | 1.358                  | -0.14            | 0.205                  | 0.278                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Front         | 15mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 15            | 1      | 16.42               | 17.70               | 1.343                  | 0.03             | 0.110                  | 0.148                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Back          | 15mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 15            | 1      | 16.42               | 17.70               | 1.343                  | 0.17             | 0.160                  | 0.215                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 15mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 15            | 1      | 16.36               | 17.70               | 1.361                  | 0                | 0.100                  | 0.136                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 15mm     | Ant 1   | DSI 5       | 167300 | 836.5       | 15            | 1      | 16.36               | 17.70               | 1.361                  | -0.08            | 0.145                  | 0.197                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Front         | 15mm     | Ant 0   | DSI 1       | 167300 | 836.5       | 20.5          | 1      | 20.77               | 22.20               | 1.390                  | -0.01            | 0.079                  | 0.110                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Back          | 15mm     | Ant 0   | DSI 1       | 167300 | 836.5       | 20.5          | 1      | 20.77               | 22.20               | 1.390                  | -0.12            | 0.097                  | 0.135                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 15mm     | Ant 0   | DSI 1       | 167300 | 836.5       | 20.5          | 1      | 20.75               | 22.20               | 1.396                  | -0.06            | 0.077                  | 0.108                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 15mm     | Ant 0   | DSI 1       | 167300 | 836.5       | 20.5          | 1      | 20.75               | 22.20               | 1.396                  | -0.08            | 0.096                  | 0.134                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Front         | 15mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 18.5          | 1      | 18.64               | 20.20               | 1.432                  | -0.03            | 0.049                  | 0.070                  |
|          | FR1 n5      | 20M      | QPSK       | 1       | 53        | DFT-15 | Back          | 15mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 18.5          | 1      | 18.64               | 20.20               | 1.432                  | 0.08             | 0.061                  | 0.087                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Front         | 15mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 18.5          | 1      | 18.43               | 20.20               | 1.503                  | 0.03             | 0.049                  | 0.074                  |
|          | FR1 n5      | 20M      | QPSK       | 50      | 28        | DFT-15 | Back          | 15mm     | Ant 0   | DSI 5       | 167300 | 836.5       | 18.5          | 1      | 18.43               | 20.20               | 1.503                  | 0.06             | 0.061                  | 0.092                  |
| 1750MHz  |             |          |            |         |           |        |               |          |         |             |        |             |               |        |                     |                     |                        |                  |                        |                        |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 49        | -      | Front         | 15mm     | Ant 3   | DSI 1       | 132322 | 1745        | 18            | 1      | 18.72               | 19.30               | 1.143                  | 0.11             | 0.067                  | 0.077                  |
|          | LTE Band 66 | 20M      | QPSK       | 1       | 49        | -      | Back          | 15mm     | Ant 3   | DSI 1       | 132322 | 1745        | 18            | 1      | 18.72               | 19.30               | 1.143                  | 0.13             | 0.107                  | 0.122                  |



# FCC SAR Test Report

Report No. : FA3O3018

|             |     |      |     |     |        |       |      |       |       |        |      |      |   |       |       |       |       |       |       |
|-------------|-----|------|-----|-----|--------|-------|------|-------|-------|--------|------|------|---|-------|-------|-------|-------|-------|-------|
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 3 | DSI 1 | 132322 | 1745 | 18   | 1 | 18.68 | 19.30 | 1.153 | 0.08  | 0.069 | 0.080 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 3 | DSI 1 | 132322 | 1745 | 18   | 1 | 18.68 | 19.30 | 1.153 | 0.07  | 0.109 | 0.126 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 3 | DSI 5 | 132322 | 1745 | 16   | 1 | 16.78 | 17.30 | 1.127 | -0.16 | 0.043 | 0.048 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 3 | DSI 5 | 132322 | 1745 | 16   | 1 | 16.78 | 17.30 | 1.127 | 0.03  | 0.068 | 0.077 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 3 | DSI 5 | 132322 | 1745 | 16   | 1 | 16.75 | 17.30 | 1.135 | -0.14 | 0.045 | 0.051 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 3 | DSI 5 | 132322 | 1745 | 16   | 1 | 16.75 | 17.30 | 1.135 | -0.05 | 0.069 | 0.078 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 0 | DSI 1 | 132322 | 1745 | 17   | 1 | 17.17 | 18.30 | 1.297 | 0.08  | 0.098 | 0.126 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 0 | DSI 1 | 132322 | 1745 | 17   | 1 | 17.17 | 18.30 | 1.297 | 0.1   | 0.157 | 0.204 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 0 | DSI 1 | 132322 | 1745 | 17   | 1 | 17.16 | 18.30 | 1.300 | 0     | 0.100 | 0.129 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 0 | DSI 1 | 132322 | 1745 | 17   | 1 | 17.16 | 18.30 | 1.300 | -0.11 | 0.158 | 0.205 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 0 | DSI 5 | 132322 | 1745 | 15   | 1 | 15.16 | 16.30 | 1.300 | -0.1  | 0.062 | 0.081 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 0 | DSI 5 | 132322 | 1745 | 15   | 1 | 15.16 | 16.30 | 1.300 | 0.07  | 0.100 | 0.130 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 0 | DSI 5 | 132322 | 1745 | 15   | 1 | 15.11 | 16.30 | 1.315 | 0.12  | 0.063 | 0.083 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 0 | DSI 5 | 132322 | 1745 | 15   | 1 | 15.11 | 16.30 | 1.315 | 0.14  | 0.100 | 0.132 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 4 | DSI 1 | 132322 | 1745 | 17.5 | 1 | 18.22 | 18.80 | 1.143 | 0.02  | 0.056 | 0.064 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 4 | DSI 1 | 132322 | 1745 | 17.5 | 1 | 18.22 | 18.80 | 1.143 | -0.05 | 0.094 | 0.107 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 4 | DSI 1 | 132322 | 1745 | 17.5 | 1 | 18.15 | 18.80 | 1.161 | -0.03 | 0.060 | 0.070 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 4 | DSI 1 | 132322 | 1745 | 17.5 | 1 | 18.15 | 18.80 | 1.161 | -0.15 | 0.095 | 0.110 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 4 | DSI 5 | 132322 | 1745 | 15.5 | 1 | 16.59 | 16.80 | 1.050 | 0.15  | 0.035 | 0.037 |
| LTE Band 66 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 4 | DSI 5 | 132322 | 1745 | 15.5 | 1 | 16.59 | 16.80 | 1.050 | 0.18  | 0.060 | 0.063 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 4 | DSI 5 | 132322 | 1745 | 15.5 | 1 | 16.56 | 16.80 | 1.057 | 0.11  | 0.037 | 0.039 |
| LTE Band 66 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 4 | DSI 5 | 132322 | 1745 | 15.5 | 1 | 16.56 | 16.80 | 1.057 | 0.03  | 0.060 | 0.063 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 3 | DSI 1 | 349000 | 1745 | 18.5 | 1 | 18.75 | 20.20 | 1.396 | -0.15 | 0.100 | 0.140 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 3 | DSI 1 | 349000 | 1745 | 18.5 | 1 | 18.75 | 20.20 | 1.396 | -0.07 | 0.174 | 0.243 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 3 | DSI 1 | 349000 | 1745 | 18.5 | 1 | 18.67 | 20.20 | 1.422 | -0.09 | 0.111 | 0.158 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 3 | DSI 1 | 349000 | 1745 | 18.5 | 1 | 18.67 | 20.20 | 1.422 | -0.03 | 0.179 | 0.255 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 3 | DSI 5 | 349000 | 1745 | 16.5 | 1 | 16.74 | 18.20 | 1.400 | 0.01  | 0.068 | 0.095 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 3 | DSI 5 | 349000 | 1745 | 16.5 | 1 | 16.74 | 18.20 | 1.400 | -0.09 | 0.112 | 0.157 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 3 | DSI 5 | 349000 | 1745 | 16.5 | 1 | 16.70 | 18.20 | 1.413 | 0.1   | 0.070 | 0.099 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 3 | DSI 5 | 349000 | 1745 | 16.5 | 1 | 16.70 | 18.20 | 1.413 | 0.18  | 0.113 | 0.160 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 349000 | 1745 | 18   | 1 | 17.54 | 18.70 | 1.306 | -0.16 | 0.126 | 0.165 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 349000 | 1745 | 18   | 1 | 17.54 | 18.70 | 1.306 | 0.04  | 0.189 | 0.247 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 349000 | 1745 | 18   | 1 | 17.43 | 18.70 | 1.340 | -0.05 | 0.129 | 0.173 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 349000 | 1745 | 18   | 1 | 17.43 | 18.70 | 1.340 | -0.09 | 0.194 | 0.260 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 349000 | 1745 | 16   | 1 | 15.62 | 16.70 | 1.282 | -0.12 | 0.093 | 0.119 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 349000 | 1745 | 16   | 1 | 15.62 | 16.70 | 1.282 | -0.06 | 0.135 | 0.173 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 349000 | 1745 | 16   | 1 | 15.56 | 16.70 | 1.300 | 0.15  | 0.096 | 0.125 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 349000 | 1745 | 16   | 1 | 15.56 | 16.70 | 1.300 | 0.12  | 0.138 | 0.179 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 4 | DSI 1 | 349000 | 1745 | 17.5 | 1 | 17.90 | 19.20 | 1.349 | 0.12  | 0.057 | 0.077 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 4 | DSI 1 | 349000 | 1745 | 17.5 | 1 | 17.90 | 19.20 | 1.349 | 0.13  | 0.115 | 0.155 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 4 | DSI 1 | 349000 | 1745 | 17.5 | 1 | 17.85 | 19.20 | 1.365 | -0.05 | 0.059 | 0.081 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 4 | DSI 1 | 349000 | 1745 | 17.5 | 1 | 17.85 | 19.20 | 1.365 | 0.07  | 0.115 | 0.157 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 4 | DSI 5 | 349000 | 1745 | 15.5 | 1 | 15.92 | 17.20 | 1.343 | 0.09  | 0.036 | 0.048 |
| FR1 n66     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 4 | DSI 5 | 349000 | 1745 | 15.5 | 1 | 15.92 | 17.20 | 1.343 | 0.02  | 0.072 | 0.097 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 4 | DSI 5 | 349000 | 1745 | 15.5 | 1 | 15.88 | 17.20 | 1.355 | 0.01  | 0.037 | 0.050 |
| FR1 n66     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 4 | DSI 5 | 349000 | 1745 | 15.5 | 1 | 15.88 | 17.20 | 1.355 | -0.07 | 0.073 | 0.099 |
| 1900MHz     |     |      |     |     |        |       |      |       |       |        |      |      |   |       |       |       |       |       |       |
| LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 3 | DSI 1 | 18900  | 1880 | 17.5 | 1 | 16.79 | 17.30 | 1.125 | -0.18 | 0.061 | 0.069 |
| LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 3 | DSI 1 | 18900  | 1880 | 17.5 | 1 | 16.79 | 17.30 | 1.125 | -0.09 | 0.119 | 0.134 |
| LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 3 | DSI 1 | 18900  | 1880 | 17.5 | 1 | 16.78 | 17.30 | 1.127 | 0.15  | 0.063 | 0.071 |
| LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 3 | DSI 1 | 18900  | 1880 | 17.5 | 1 | 16.78 | 17.30 | 1.127 | 0.07  | 0.121 | 0.136 |
| LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 3 | DSI 5 | 18900  | 1880 | 15.5 | 1 | 14.72 | 15.30 | 1.143 | 0     | 0.038 | 0.043 |
| LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 3 | DSI 5 | 18900  | 1880 | 15.5 | 1 | 14.72 | 15.30 | 1.143 | -0.02 | 0.075 | 0.086 |
| LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 3 | DSI 5 | 18900  | 1880 | 15.5 | 1 | 14.65 | 15.30 | 1.161 | -0.08 | 0.040 | 0.046 |
| LTE Band 2  | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 3 | DSI 5 | 18900  | 1880 | 15.5 | 1 | 14.65 | 15.30 | 1.161 | -0.1  | 0.077 | 0.089 |
| LTE Band 2  | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 0 | DSI 1 | 18900  | 1880 | 18   | 1 | 16.99 | 17.80 | 1.205 | 0.13  | 0.096 | 0.116 |



# FCC SAR Test Report

Report No. : FA3O3018

|            |     |      |     |     |        |       |      |       |       |        |      |      |   |       |       |       |       |       |       |
|------------|-----|------|-----|-----|--------|-------|------|-------|-------|--------|------|------|---|-------|-------|-------|-------|-------|-------|
| LTE Band 2 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 0 | DSI 1 | 18900  | 1880 | 18   | 1 | 16.99 | 17.80 | 1.205 | -0.18 | 0.167 | 0.201 |
| LTE Band 2 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 0 | DSI 1 | 18900  | 1880 | 18   | 1 | 16.98 | 17.80 | 1.208 | -0.08 | 0.097 | 0.117 |
| LTE Band 2 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 0 | DSI 1 | 18900  | 1880 | 18   | 1 | 16.98 | 17.80 | 1.208 | 0.14  | 0.167 | 0.202 |
| LTE Band 2 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 0 | DSI 5 | 18900  | 1880 | 16   | 1 | 15.02 | 15.80 | 1.197 | -0.09 | 0.061 | 0.073 |
| LTE Band 2 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 0 | DSI 5 | 18900  | 1880 | 16   | 1 | 15.02 | 15.80 | 1.197 | -0.05 | 0.105 | 0.126 |
| LTE Band 2 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 0 | DSI 5 | 18900  | 1880 | 16   | 1 | 14.95 | 15.80 | 1.216 | -0.14 | 0.061 | 0.074 |
| LTE Band 2 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 0 | DSI 5 | 18900  | 1880 | 16   | 1 | 14.95 | 15.80 | 1.216 | -0.05 | 0.106 | 0.129 |
| 2600MHz    |     |      |     |     |        |       |      |       |       |        |      |      |   |       |       |       |       |       |       |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 3 | DSI 1 | 21100  | 2535 | 14.5 | 1 | 14.78 | 15.80 | 1.265 | -0.03 | 0.054 | 0.068 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 3 | DSI 1 | 21100  | 2535 | 14.5 | 1 | 14.78 | 15.80 | 1.265 | -0.09 | 0.083 | 0.105 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 3 | DSI 1 | 21100  | 2535 | 14.5 | 1 | 14.75 | 15.80 | 1.274 | 0.14  | 0.053 | 0.067 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 3 | DSI 1 | 21100  | 2535 | 14.5 | 1 | 14.75 | 15.80 | 1.274 | -0.15 | 0.082 | 0.104 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 3 | DSI 5 | 21100  | 2535 | 12.5 | 1 | 12.75 | 13.80 | 1.274 | -0.03 | 0.031 | 0.039 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 3 | DSI 5 | 21100  | 2535 | 12.5 | 1 | 12.75 | 13.80 | 1.274 | -0.03 | 0.052 | 0.066 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 3 | DSI 5 | 21100  | 2535 | 12.5 | 1 | 12.67 | 13.80 | 1.297 | 0.02  | 0.033 | 0.043 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 3 | DSI 5 | 21100  | 2535 | 12.5 | 1 | 12.67 | 13.80 | 1.297 | -0.15 | 0.052 | 0.067 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 0 | DSI 1 | 21100  | 2535 | 18   | 1 | 17.84 | 18.30 | 1.112 | 0.03  | 0.113 | 0.126 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 0 | DSI 1 | 21100  | 2535 | 18   | 1 | 17.84 | 18.30 | 1.112 | -0.13 | 0.193 | 0.215 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 0 | DSI 1 | 21100  | 2535 | 18   | 1 | 17.78 | 18.30 | 1.127 | -0.04 | 0.119 | 0.134 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 0 | DSI 1 | 21100  | 2535 | 18   | 1 | 17.78 | 18.30 | 1.127 | 0.09  | 0.225 | 0.254 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 0 | DSI 5 | 21100  | 2535 | 16   | 1 | 15.81 | 16.30 | 1.119 | 0     | 0.072 | 0.081 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 0 | DSI 5 | 21100  | 2535 | 16   | 1 | 15.81 | 16.30 | 1.119 | 0.01  | 0.122 | 0.137 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 0 | DSI 5 | 21100  | 2535 | 16   | 1 | 15.75 | 16.30 | 1.135 | -0.17 | 0.075 | 0.085 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 0 | DSI 5 | 21100  | 2535 | 16   | 1 | 15.75 | 16.30 | 1.135 | 0.12  | 0.142 | 0.161 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 4 | DSI 1 | 21100  | 2535 | 17   | 1 | 16.13 | 17.30 | 1.309 | -0.09 | 0.025 | 0.033 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 4 | DSI 1 | 21100  | 2535 | 17   | 1 | 16.13 | 17.30 | 1.309 | 0.15  | 0.072 | 0.094 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 4 | DSI 1 | 21100  | 2535 | 17   | 1 | 16.08 | 17.30 | 1.324 | -0.11 | 0.029 | 0.038 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 4 | DSI 1 | 21100  | 2535 | 17   | 1 | 16.08 | 17.30 | 1.324 | 0.17  | 0.075 | 0.099 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Front | 15mm | Ant 4 | DSI 5 | 21100  | 2535 | 15   | 1 | 14.29 | 15.30 | 1.262 | 0.17  | 0.016 | 0.020 |
| LTE Band 7 | 20M | QPSK | 1   | 49  | -      | Back  | 15mm | Ant 4 | DSI 5 | 21100  | 2535 | 15   | 1 | 14.29 | 15.30 | 1.262 | -0.09 | 0.045 | 0.057 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Front | 15mm | Ant 4 | DSI 5 | 21100  | 2535 | 15   | 1 | 14.22 | 15.30 | 1.282 | -0.05 | 0.018 | 0.023 |
| LTE Band 7 | 20M | QPSK | 50  | 24  | -      | Back  | 15mm | Ant 4 | DSI 5 | 21100  | 2535 | 15   | 1 | 14.22 | 15.30 | 1.282 | 0.06  | 0.045 | 0.058 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 3 | DSI 1 | 507000 | 2535 | 14.5 | 1 | 14.29 | 15.20 | 1.233 | -0.01 | 0.053 | 0.065 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 3 | DSI 1 | 507000 | 2535 | 14.5 | 1 | 14.29 | 15.20 | 1.233 | -0.08 | 0.090 | 0.111 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 3 | DSI 1 | 507000 | 2535 | 14.5 | 1 | 14.25 | 15.20 | 1.245 | -0.06 | 0.053 | 0.066 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 3 | DSI 1 | 507000 | 2535 | 14.5 | 1 | 14.25 | 15.20 | 1.245 | 0.08  | 0.092 | 0.114 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 3 | DSI 5 | 507000 | 2535 | 12.5 | 1 | 12.49 | 13.20 | 1.178 | -0.02 | 0.034 | 0.040 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 3 | DSI 5 | 507000 | 2535 | 12.5 | 1 | 12.49 | 13.20 | 1.178 | 0.04  | 0.058 | 0.068 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 3 | DSI 5 | 507000 | 2535 | 12.5 | 1 | 12.43 | 13.20 | 1.194 | 0.04  | 0.032 | 0.038 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 3 | DSI 5 | 507000 | 2535 | 12.5 | 1 | 12.43 | 13.20 | 1.194 | 0.17  | 0.056 | 0.067 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 507000 | 2535 | 16.5 | 1 | 16.45 | 17.20 | 1.189 | -0.06 | 0.112 | 0.133 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 507000 | 2535 | 16.5 | 1 | 16.45 | 17.20 | 1.189 | -0.1  | 0.173 | 0.206 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 507000 | 2535 | 16.5 | 1 | 16.42 | 17.20 | 1.197 | -0.17 | 0.107 | 0.128 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 507000 | 2535 | 16.5 | 1 | 16.42 | 17.20 | 1.197 | -0.09 | 0.158 | 0.189 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 507000 | 2535 | 14.5 | 1 | 14.35 | 15.20 | 1.216 | 0.05  | 0.071 | 0.086 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 507000 | 2535 | 14.5 | 1 | 14.35 | 15.20 | 1.216 | -0.1  | 0.109 | 0.133 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 507000 | 2535 | 14.5 | 1 | 14.27 | 15.20 | 1.239 | 0.12  | 0.068 | 0.084 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 507000 | 2535 | 14.5 | 1 | 14.27 | 15.20 | 1.239 | -0.15 | 0.100 | 0.124 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 4 | DSI 1 | 507000 | 2535 | 16   | 1 | 15.54 | 16.70 | 1.306 | 0.12  | 0.030 | 0.039 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 4 | DSI 1 | 507000 | 2535 | 16   | 1 | 15.54 | 16.70 | 1.306 | -0.17 | 0.079 | 0.103 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 4 | DSI 1 | 507000 | 2535 | 16   | 1 | 15.52 | 16.70 | 1.312 | 0.09  | 0.030 | 0.039 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 4 | DSI 1 | 507000 | 2535 | 16   | 1 | 15.52 | 16.70 | 1.312 | 0.07  | 0.078 | 0.102 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Front | 15mm | Ant 4 | DSI 5 | 507000 | 2535 | 14   | 1 | 13.55 | 14.70 | 1.303 | -0.01 | 0.019 | 0.025 |
| FR1 n7     | 40M | QPSK | 1   | 108 | DFT-15 | Back  | 15mm | Ant 4 | DSI 5 | 507000 | 2535 | 14   | 1 | 13.55 | 14.70 | 1.303 | -0.03 | 0.050 | 0.065 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Front | 15mm | Ant 4 | DSI 5 | 507000 | 2535 | 14   | 1 | 13.46 | 14.70 | 1.330 | 0.06  | 0.019 | 0.025 |
| FR1 n7     | 40M | QPSK | 108 | 54  | DFT-15 | Back  | 15mm | Ant 4 | DSI 5 | 507000 | 2535 | 14   | 1 | 13.46 | 14.70 | 1.330 | -0.13 | 0.049 | 0.065 |



# FCC SAR Test Report

Report No. : FA3O3018

|             |      |      |     |     |        |       |      |       |       |        |         |      |   |       |       |       |       |       |       |
|-------------|------|------|-----|-----|--------|-------|------|-------|-------|--------|---------|------|---|-------|-------|-------|-------|-------|-------|
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Front | 15mm | Ant 3 | DSI 1 | 519000 | 2595    | 14   | 1 | 14.74 | 16.20 | 1.400 | -0.04 | 0.060 | 0.084 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Back  | 15mm | Ant 3 | DSI 1 | 519000 | 2595    | 14   | 1 | 14.74 | 16.20 | 1.400 | -0.11 | 0.087 | 0.122 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Front | 15mm | Ant 3 | DSI 1 | 519000 | 2595    | 14   | 1 | 14.64 | 16.20 | 1.432 | 0.02  | 0.060 | 0.086 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Back  | 15mm | Ant 3 | DSI 1 | 519000 | 2595    | 14   | 1 | 14.64 | 16.20 | 1.432 | 0.1   | 0.087 | 0.125 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Front | 15mm | Ant 3 | DSI 5 | 519000 | 2595    | 12   | 1 | 12.75 | 14.20 | 1.396 | 0.18  | 0.038 | 0.053 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-30 | Back  | 15mm | Ant 3 | DSI 5 | 519000 | 2595    | 12   | 1 | 12.75 | 14.20 | 1.396 | 0.03  | 0.055 | 0.077 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Front | 15mm | Ant 3 | DSI 5 | 519000 | 2595    | 12   | 1 | 12.70 | 14.20 | 1.413 | 0.15  | 0.038 | 0.054 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-30 | Back  | 15mm | Ant 3 | DSI 5 | 519000 | 2595    | 12   | 1 | 12.70 | 14.20 | 1.413 | 0.05  | 0.055 | 0.078 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 519000 | 2595    | 16.5 | 1 | 17.11 | 18.70 | 1.442 | 0.13  | 0.047 | 0.068 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 519000 | 2595    | 16.5 | 1 | 17.11 | 18.70 | 1.442 | 0.11  | 0.134 | 0.193 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-15 | Front | 15mm | Ant 0 | DSI 1 | 519000 | 2595    | 16.5 | 1 | 17.05 | 18.70 | 1.462 | 0.05  | 0.049 | 0.072 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-15 | Back  | 15mm | Ant 0 | DSI 1 | 519000 | 2595    | 16.5 | 1 | 17.05 | 18.70 | 1.462 | -0.04 | 0.142 | 0.208 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 519000 | 2595    | 14.5 | 1 | 15.10 | 16.70 | 1.445 | 0.06  | 0.030 | 0.043 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 519000 | 2595    | 14.5 | 1 | 15.10 | 16.70 | 1.445 | -0.1  | 0.083 | 0.120 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-15 | Front | 15mm | Ant 0 | DSI 5 | 519000 | 2595    | 14.5 | 1 | 15.01 | 16.70 | 1.476 | -0.03 | 0.031 | 0.046 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-15 | Back  | 15mm | Ant 0 | DSI 5 | 519000 | 2595    | 14.5 | 1 | 15.01 | 16.70 | 1.476 | 0.16  | 0.090 | 0.133 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-15 | Front | 15mm | Ant 4 | DSI 1 | 519000 | 2595    | 14.5 | 1 | 15.00 | 16.70 | 1.479 | -0.11 | 0.023 | 0.034 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-15 | Back  | 15mm | Ant 4 | DSI 1 | 519000 | 2595    | 14.5 | 1 | 15.00 | 16.70 | 1.479 | -0.02 | 0.121 | 0.179 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-15 | Front | 15mm | Ant 4 | DSI 1 | 519000 | 2595    | 14.5 | 1 | 14.94 | 16.70 | 1.500 | 0.03  | 0.023 | 0.034 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-15 | Back  | 15mm | Ant 4 | DSI 1 | 519000 | 2595    | 14.5 | 1 | 14.94 | 16.70 | 1.500 | -0.11 | 0.093 | 0.139 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-15 | Front | 15mm | Ant 4 | DSI 5 | 519000 | 2595    | 12.5 | 1 | 13.05 | 14.70 | 1.462 | -0.01 | 0.015 | 0.022 |
| FR1 n38     | 40M  | QPSK | 1   | 53  | DFT-15 | Back  | 15mm | Ant 4 | DSI 5 | 519000 | 2595    | 12.5 | 1 | 13.05 | 14.70 | 1.462 | -0.01 | 0.076 | 0.111 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-15 | Front | 15mm | Ant 4 | DSI 5 | 519000 | 2595    | 12.5 | 1 | 13.00 | 14.70 | 1.479 | -0.03 | 0.014 | 0.021 |
| FR1 n38     | 40M  | QPSK | 50  | 28  | DFT-15 | Back  | 15mm | Ant 4 | DSI 5 | 519000 | 2595    | 12.5 | 1 | 13.00 | 14.70 | 1.479 | -0.08 | 0.054 | 0.080 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 3 | DSI 1 | 518598 | 2592.99 | 16.5 | 1 | 15.28 | 16.70 | 1.387 | 0.16  | 0.065 | 0.090 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 3 | DSI 1 | 518598 | 2592.99 | 16.5 | 1 | 15.28 | 16.70 | 1.387 | 0.11  | 0.098 | 0.136 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 3 | DSI 1 | 518598 | 2592.99 | 16.5 | 1 | 15.26 | 16.70 | 1.393 | -0.14 | 0.067 | 0.093 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 3 | DSI 1 | 518598 | 2592.99 | 16.5 | 1 | 15.26 | 16.70 | 1.393 | 0.05  | 0.099 | 0.138 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 14.5 | 1 | 13.11 | 14.70 | 1.442 | 0.14  | 0.041 | 0.059 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 14.5 | 1 | 13.11 | 14.70 | 1.442 | -0.16 | 0.062 | 0.089 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 14.5 | 1 | 13.07 | 14.70 | 1.455 | -0.04 | 0.042 | 0.061 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 3 | DSI 5 | 518598 | 2592.99 | 14.5 | 1 | 13.07 | 14.70 | 1.455 | 0.05  | 0.062 | 0.090 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 20.5 | 1 | 18.92 | 20.70 | 1.507 | 0.06  | 0.125 | 0.188 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 20.5 | 1 | 18.92 | 20.70 | 1.507 | 0.11  | 0.164 | 0.247 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 20.5 | 1 | 18.84 | 20.70 | 1.535 | -0.01 | 0.128 | 0.196 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 0 | DSI 1 | 518598 | 2592.99 | 20.5 | 1 | 18.84 | 20.70 | 1.535 | -0.15 | 0.192 | 0.295 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 18.5 | 1 | 16.88 | 18.70 | 1.521 | -0.09 | 0.056 | 0.085 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 18.5 | 1 | 16.88 | 18.70 | 1.521 | -0.15 | 0.074 | 0.113 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 18.5 | 1 | 16.82 | 18.70 | 1.542 | -0.06 | 0.057 | 0.088 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 0 | DSI 5 | 518598 | 2592.99 | 18.5 | 1 | 16.82 | 18.70 | 1.542 | -0.05 | 0.086 | 0.133 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 4 | DSI 1 | 518598 | 2592.99 | 17.5 | 1 | 15.87 | 17.70 | 1.524 | 0.02  | 0.034 | 0.052 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 4 | DSI 1 | 518598 | 2592.99 | 17.5 | 1 | 15.87 | 17.70 | 1.524 | -0.17 | 0.083 | 0.126 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 4 | DSI 1 | 518598 | 2592.99 | 17.5 | 1 | 15.85 | 17.70 | 1.531 | 0.16  | 0.035 | 0.054 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 4 | DSI 1 | 518598 | 2592.99 | 17.5 | 1 | 15.85 | 17.70 | 1.531 | -0.03 | 0.086 | 0.132 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Front | 15mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 15.5 | 1 | 13.85 | 15.70 | 1.531 | -0.04 | 0.021 | 0.032 |
| FR1 n41 PC2 | 100M | QPSK | 1   | 137 | DFT-30 | Back  | 15mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 15.5 | 1 | 13.85 | 15.70 | 1.531 | -0.16 | 0.052 | 0.080 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Front | 15mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 15.5 | 1 | 13.77 | 15.70 | 1.560 | 0.18  | 0.022 | 0.034 |
| FR1 n41 PC2 | 100M | QPSK | 135 | 69  | DFT-30 | Back  | 15mm | Ant 4 | DSI 5 | 518598 | 2592.99 | 15.5 | 1 | 13.77 | 15.70 | 1.560 | 0.11  | 0.054 | 0.084 |



# FCC SAR Test Report

Report No. : FA3O3018

| Plot No. | Band       | Mode                | Test Position | Gap (mm) | Antenna | Power State | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|---------------------|---------------|----------|---------|-------------|-----|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| BT/WIFI  |            |                     |               |          |         |             |     |             |        |                     |                     |                        |              |                           |                  |                        |                        |
|          | Bluetooth  | DH5 1Mbps           | Front         | 15mm     | Ant 7   | Full        | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | -0.06            | 0.042                  | 0.065                  |
| 73       | Bluetooth  | DH5 1Mbps           | Back          | 15mm     | Ant 7   | Full        | 39  | 2441        | 1      | 14.30               | 15.00               | 1.175                  | 76.35        | 1.310                     | 0.12             | 0.044                  | 0.068                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 15mm     | Ant 7   | Full        | 11  | 2462        | 1      | 14.90               | 15.00               | 1.023                  | 100          | 1.000                     | 0.01             | 0.065                  | 0.067                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 15mm     | Ant 7   | Full        | 11  | 2462        | 1      | 14.90               | 15.00               | 1.023                  | 100          | 1.000                     | 0.05             | 0.087                  | 0.089                  |
|          | WLAN2.4GHz | 802.11b 1Mbps       | Front         | 15mm     | Ant 8   | Full        | 6   | 2437        | 1      | 14.80               | 15.00               | 1.047                  | 100          | 1.000                     | 0.15             | 0.072                  | 0.075                  |
| 74       | WLAN2.4GHz | 802.11b 1Mbps       | Back          | 15mm     | Ant 8   | Full        | 6   | 2437        | 1      | 14.80               | 15.00               | 1.047                  | 100          | 1.000                     | -0.07            | 0.154                  | 0.161                  |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Front         | 15mm     | Ant 8+6 | Full        | 54  | 5270        | 1      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | 0.09             | 0.168                  | 0.233                  |
| 75       | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 15mm     | Ant 8+6 | Full        | 54  | 5270        | 1      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | -0.01            | 0.507                  | 0.704                  |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 15mm     | Ant 8+6 | Full        | 54  | 5270        | 2      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | -0.01            | 0.491                  | 0.681                  |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 15mm     | Ant 8+6 | Full        | 122 | 5610        | 1      | 16.58               | 17.50               | 1.236                  | 87.28        | 1.146                     | 0.12             | 0.065                  | 0.092                  |
| 76       | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 15mm     | Ant 8+6 | Full        | 122 | 5610        | 1      | 16.58               | 17.50               | 1.236                  | 87.28        | 1.146                     | -0.15            | 0.287                  | 0.407                  |
|          | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Front         | 15mm     | Ant 8+6 | Full        | 155 | 5775        | 1      | 16.11               | 17.00               | 1.227                  | 87.28        | 1.146                     | -0.11            | 0.092                  | 0.129                  |
| 77       | WLAN5.8GHz | 802.11ac-VHT80 MCS0 | Back          | 15mm     | Ant 8+6 | Full        | 155 | 5775        | 1      | 16.11               | 17.00               | 1.227                  | 87.28        | 1.146                     | -0.18            | 0.345                  | 0.485                  |



## 14.4 Product specific 10g SAR

| Plot No. | Band        | BW (MHz) | Modulation | RB Size | RB offset | Mode   | Test Position | Gap (mm) | Antenna | Power State | Ch.         | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|--------|---------------|----------|---------|-------------|-------------|-------------|--------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| 835MHz   |             |          |            |         |           |        |               |          |         |             |             |             |        |                     |                     |                        |                  |                         |                         |
|          | FR1 n26     | 20M      | QPSK       | 1       | 53        | DFT-15 | Left Side     | 0mm      | Ant 1   | DSI 1       | 166300      | 831.5       | 1      | 21.45               | 22.70               | 1.334                  | -0.19            | 0.947                   | 1.262                   |
| 78       | FR1 n26     | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 0mm      | Ant 1   | DSI 1       | 166300      | 831.5       | 1      | 21.42               | 22.70               | 1.343                  | -0.08            | 1.040                   | 1.396                   |
|          | FR1 n26     | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 0mm      | Ant 1   | DSI 1       | 166300      | 831.5       | 2      | 21.42               | 22.70               | 1.343                  | -0.08            | 0.839                   | 1.127                   |
|          | FR1 n26     | 20M      | QPSK       | 1       | 53        | DFT-15 | Left Side     | 0mm      | Ant 1   | DSI 5       | 166300      | 831.5       | 1      | 19.94               | 21.20               | 1.337                  | -0.16            | 0.670                   | 0.896                   |
|          | FR1 n26     | 20M      | QPSK       | 50      | 28        | DFT-15 | Left Side     | 0mm      | Ant 1   | DSI 5       | 166300      | 831.5       | 1      | 19.93               | 21.20               | 1.340                  | -0.01            | 0.736                   | 0.987                   |
| 2600MHz  |             |          |            |         |           |        |               |          |         |             |             |             |        |                     |                     |                        |                  |                         |                         |
|          | LTE Band 7  | 20M      | QPSK       | 1       | 49        | -      | Bottom Side   | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 1      | 20.84               | 21.30               | 1.112                  | -0.18            | 1.560                   | 1.734                   |
| 79       | LTE Band 7  | 20M      | QPSK       | 50      | 24        | -      | Bottom Side   | 0mm      | Ant 0   | DSI 1       | 21100       | 2535        | 1      | 20.84               | 21.30               | 1.112                  | 0.16             | 1.690                   | 1.879                   |
|          | LTE Band 7C | 20M      | QPSK       | 50      | 24        | -      | Bottom Side   | 0mm      | Ant 0   | DSI 1       | 21100+20902 | 2535+2515.2 | 1      | 20.56               | 20.60               | 1.009                  | -0.02            | 1.460                   | 1.474                   |
|          | LTE Band 7  | 20M      | QPSK       | 1       | 49        | -      | Bottom Side   | 0mm      | Ant 0   | DSI 5       | 21100       | 2535        | 1      | 18.78               | 19.30               | 1.127                  | -0.15            | 0.959                   | 1.081                   |
|          | LTE Band 7C | 20M      | QPSK       | 1       | 49        | -      | Bottom Side   | 0mm      | Ant 0   | DSI 5       | 21100+20902 | 2535+2515.2 | 1      | 18.52               | 18.60               | 1.019                  | -0.03            | 0.948                   | 0.966                   |
|          | LTE Band 7  | 20M      | QPSK       | 50      | 24        | -      | Bottom Side   | 0mm      | Ant 0   | DSI 5       | 21100       | 2535        | 1      | 18.74               | 19.30               | 1.138                  | -0.16            | 0.966                   | 1.099                   |
|          | FR1 n41 PC2 | 100M     | QPSK       | 1       | 137       | DFT-30 | Bottom Side   | 0mm      | Ant 0   | DSI 1       | 518598      | 2592.99     | 1      | 20.32               | 22.20               | 1.542                  | 0.16             | 1.480                   | 2.282                   |
| 80       | FR1 n41 PC2 | 100M     | QPSK       | 135     | 69        | DFT-30 | Bottom Side   | 0mm      | Ant 0   | DSI 1       | 518598      | 2592.99     | 1      | 20.23               | 22.20               | 1.574                  | 0.15             | 1.710                   | 2.692                   |
|          | FR1 n41 PC2 | 100M     | QPSK       | 135     | 69        | DFT-30 | Bottom Side   | 0mm      | Ant 0   | DSI 1       | 518598      | 2592.99     | 2      | 20.23               | 22.20               | 1.574                  | 0.15             | 1.470                   | 2.314                   |
|          | FR1 n41 PC2 | 100M     | QPSK       | 270     | 0         | DFT-30 | Bottom Side   | 0mm      | Ant 0   | DSI 1       | 518598      | 2592.99     | 1      | 20.20               | 22.20               | 1.585                  | 0.16             | 1.330                   | 2.108                   |
|          | FR1 n41 PC2 | 100M     | QPSK       | 1       | 137       | DFT-30 | Bottom Side   | 0mm      | Ant 0   | DSI 5       | 518598      | 2592.99     | 1      | 18.33               | 20.20               | 1.538                  | -0.01            | 0.934                   | 1.437                   |
|          | FR1 n41 PC2 | 100M     | QPSK       | 135     | 69        | DFT-30 | Bottom Side   | 0mm      | Ant 0   | DSI 5       | 518598      | 2592.99     | 1      | 18.21               | 20.20               | 1.581                  | 0.18             | 0.943                   | 1.491                   |



| Plot No. | Band       | Mode                | Test Position | Gap (mm) | Antenna | Power State  | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|------------|---------------------|---------------|----------|---------|--------------|-----|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| BT/WIFI  |            |                     |               |          |         |              |     |             |        |                     |                     |                        |              |                           |                  |                         |                         |
| 81       | WLAN5.3GHz | 802.11n-HT40 MCS0   | Front         | 0mm      | Ant 8+6 | 5G+BT        | 54  | 5270        | 1      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | 0.1              | 1.000                   | 1.388                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 0mm      | Ant 8+6 | 5G+BT        | 54  | 5270        | 1      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | -0.12            | 0.832                   | 1.155                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Side    | 0mm      | Ant 8+6 | 5G+BT        | 54  | 5270        | 1      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | -0.07            | 2.010                   | 2.789                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Side    | 0mm      | Ant 8+6 | 5G+BT        | 54  | 5270        | 2      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | -0.07            | 1.910                   | 2.650                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Top Side      | 0mm      | Ant 8+6 | 5G+BT        | 54  | 5270        | 1      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | 0.14             | 1.490                   | 2.068                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Side    | 0mm      | Ant 8+6 | 5G+BT        | 62  | 5310        | 1      | 10.14               | 11.50               | 1.368                  | 87.66        | 1.141                     | -0.09            | 0.241                   | 0.376                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Front         | 0mm      | Ant 8+6 | 5G+WWAN      | 54  | 5270        | 1      | 16.13               | 17.00               | 1.222                  | 87.66        | 1.141                     | 0.01             | 0.447                   | 0.623                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 0mm      | Ant 8+6 | 5G+WWAN      | 54  | 5270        | 1      | 16.13               | 17.00               | 1.222                  | 87.66        | 1.141                     | 0.07             | 0.372                   | 0.519                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Side    | 0mm      | Ant 8+6 | 5G+WWAN      | 54  | 5270        | 1      | 16.13               | 17.00               | 1.222                  | 87.66        | 1.141                     | -0.03            | 0.889                   | 1.239                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Top Side      | 0mm      | Ant 8+6 | 5G+WWAN      | 54  | 5270        | 1      | 16.13               | 17.00               | 1.222                  | 87.66        | 1.141                     | -0.03            | 0.666                   | 0.928                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Front         | 0mm      | Ant 8+6 | 5G+WWAN+BT   | 54  | 5270        | 1      | 12.54               | 13.50               | 1.247                  | 87.66        | 1.141                     | 0.06             | 0.198                   | 0.281                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 0mm      | Ant 8+6 | 5G+WWAN+BT   | 54  | 5270        | 1      | 12.54               | 13.50               | 1.247                  | 87.66        | 1.141                     | -0.02            | 0.165                   | 0.234                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Side    | 0mm      | Ant 8+6 | 5G+WWAN+BT   | 54  | 5270        | 1      | 12.54               | 13.50               | 1.247                  | 87.66        | 1.141                     | -0.03            | 0.396                   | 0.564                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Top Side      | 0mm      | Ant 8+6 | 5G+WWAN+BT   | 54  | 5270        | 1      | 12.54               | 13.50               | 1.247                  | 87.66        | 1.141                     | -0.14            | 0.294                   | 0.418                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Front         | 0mm      | Ant 8+6 | 2.4G+5G+WWAN | 54  | 5270        | 1      | 15.12               | 16.00               | 1.225                  | 87.66        | 1.141                     | 0.01             | 0.354                   | 0.495                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Back          | 0mm      | Ant 8+6 | 2.4G+5G+WWAN | 54  | 5270        | 1      | 15.12               | 16.00               | 1.225                  | 87.66        | 1.141                     | 0.02             | 0.296                   | 0.414                   |
| 82       | WLAN5.3GHz | 802.11n-HT40 MCS0   | Right Side    | 0mm      | Ant 8+6 | 2.4G+5G+WWAN | 54  | 5270        | 1      | 15.12               | 16.00               | 1.225                  | 87.66        | 1.141                     | -0.01            | 0.714                   | 0.998                   |
|          | WLAN5.3GHz | 802.11n-HT40 MCS0   | Top Side      | 0mm      | Ant 8+6 | 2.4G+5G+WWAN | 54  | 5270        | 1      | 15.12               | 16.00               | 1.225                  | 87.66        | 1.141                     | -0.01            | 0.528                   | 0.738                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 8+6 | 5G+BT        | 122 | 5610        | 1      | 16.58               | 17.50               | 1.236                  | 87.28        | 1.146                     | 0.12             | 0.316                   | 0.448                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 8+6 | 5G+BT        | 122 | 5610        | 1      | 16.58               | 17.50               | 1.236                  | 87.28        | 1.146                     | -0.02            | 0.349                   | 0.494                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 0mm      | Ant 8+6 | 5G+BT        | 122 | 5610        | 1      | 16.58               | 17.50               | 1.236                  | 87.28        | 1.146                     | -0.05            | 0.825                   | 1.169                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 8+6 | 5G+BT        | 122 | 5610        | 1      | 16.58               | 17.50               | 1.236                  | 87.28        | 1.146                     | 0.07             | 0.592                   | 0.839                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 8+6 | 5G+WWAN      | 122 | 5610        | 1      | 13.09               | 14.00               | 1.233                  | 87.28        | 1.146                     | -0.11            | 0.147                   | 0.208                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 8+6 | 5G+WWAN      | 122 | 5610        | 1      | 13.09               | 14.00               | 1.233                  | 87.28        | 1.146                     | 0.02             | 0.161                   | 0.228                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 0mm      | Ant 8+6 | 5G+WWAN      | 122 | 5610        | 1      | 13.09               | 14.00               | 1.233                  | 87.28        | 1.146                     | -0.14            | 0.352                   | 0.497                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 8+6 | 5G+WWAN      | 122 | 5610        | 1      | 13.09               | 14.00               | 1.233                  | 87.28        | 1.146                     | 0.02             | 0.282                   | 0.399                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 8+6 | 5G+WWAN+BT   | 122 | 5610        | 1      | 12.08               | 13.00               | 1.236                  | 87.28        | 1.146                     | 0.03             | 0.118                   | 0.167                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 8+6 | 5G+WWAN+BT   | 122 | 5610        | 1      | 12.08               | 13.00               | 1.236                  | 87.28        | 1.146                     | 0.15             | 0.143                   | 0.203                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 0mm      | Ant 8+6 | 5G+WWAN+BT   | 122 | 5610        | 1      | 12.08               | 13.00               | 1.236                  | 87.28        | 1.146                     | 0.12             | 0.298                   | 0.422                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 8+6 | 5G+WWAN+BT   | 122 | 5610        | 1      | 12.08               | 13.00               | 1.236                  | 87.28        | 1.146                     | -0.07            | 0.229                   | 0.324                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Front         | 0mm      | Ant 8+6 | 2.4G+5G+WWAN | 122 | 5610        | 1      | 12.59               | 13.50               | 1.233                  | 87.28        | 1.146                     | 0.02             | 0.121                   | 0.171                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Back          | 0mm      | Ant 8+6 | 2.4G+5G+WWAN | 122 | 5610        | 1      | 12.59               | 13.50               | 1.233                  | 87.28        | 1.146                     | 0.07             | 0.125                   | 0.177                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Right Side    | 0mm      | Ant 8+6 | 2.4G+5G+WWAN | 122 | 5610        | 1      | 12.59               | 13.50               | 1.233                  | 87.28        | 1.146                     | -0.12            | 0.285                   | 0.403                   |
|          | WLAN5.5GHz | 802.11ac-VHT80 MCS0 | Top Side      | 0mm      | Ant 8+6 | 2.4G+5G+WWAN | 122 | 5610        | 1      | 12.59               | 13.50               | 1.233                  | 87.28        | 1.146                     | -0.18            | 0.245                   | 0.346                   |



## 14.5 Repeated SAR Measurement

&lt;1g&gt;

| Plot No. | Band            | BW (MHz) | Modulation | RB Size | RB offset | Mode                | Test Position | Gap (mm) | Antenna | Power State      | Ch.    | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|----------|-----------------|----------|------------|---------|-----------|---------------------|---------------|----------|---------|------------------|--------|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|-------|------------------------|
| 1st      | LTE Band 13     | 10M      | QPSK       | 1       | 25        | -                   | Left Cheek    | 0mm      | Ant 1   | DSI 2            | 23230  | 782         | 1      | 21.29               | 21.50               | 1.050                  | -            | -                         | -0.15            | 0.811                  | 1     | 0.851                  |
| 2nd      | LTE Band 13     | 10M      | QPSK       | 1       | 25        | -                   | Left Cheek    | 0mm      | Ant 1   | DSI 2            | 23230  | 782         | 1      | 21.29               | 21.50               | 1.050                  | -            | -                         | 0.03             | 0.785                  | 1.033 | 0.824                  |
| 1st      | FR1 n26         | 20M      | QPSK       | 50      | 28        | DFT-15              | Left Cheek    | 0mm      | Ant 1   | DSI 2            | 166300 | 831.5       | 1      | 19.93               | 21.20               | 1.340                  | -            | -                         | 0.09             | 0.818                  | 1     | 1.096                  |
| 2nd      | FR1 n26         | 20M      | QPSK       | 50      | 28        | DFT-15              | Left Cheek    | 0mm      | Ant 1   | DSI 2            | 166300 | 831.5       | 1      | 19.93               | 21.20               | 1.340                  | -            | -                         | 0.03             | 0.795                  | 1.029 | 1.065                  |
| 1st      | WCDMA IV        | -        | -          | -       | -         | RMC 12.2Kbps        | Right Cheek   | 0mm      | Ant 3   | DSI 2            | 1312   | 1712.4      | 1      | 19.24               | 19.80               | 1.138                  | -            | -                         | -0.04            | 1.010                  | 1     | 1.149                  |
| 2nd      | WCDMA IV        | -        | -          | -       | -         | RMC 12.2Kbps        | Right Cheek   | 0mm      | Ant 3   | DSI 2            | 1312   | 1712.4      | 1      | 19.24               | 19.80               | 1.138                  | -            | -                         | 0.11             | 0.988                  | 1.022 | 1.124                  |
| 1st      | GSM1900         | -        | -          | -       | -         | GPRS (4 Tx slots)   | Right Cheek   | 0mm      | Ant 3   | DSI 2            | 810    | 1909.8      | 1      | 21.56               | 21.80               | 1.057                  | -            | -                         | 0.18             | 0.933                  | 1     | 0.986                  |
| 2nd      | GSM1900         | -        | -          | -       | -         | GPRS (4 Tx slots)   | Right Cheek   | 0mm      | Ant 3   | DSI 2            | 810    | 1909.8      | 1      | 21.56               | 21.80               | 1.057                  | -            | -                         | 0.03             | 0.911                  | 0.911 | 0.963                  |
| 1st      | LTE Band 41 PC2 | 20M      | QPSK       | 50      | 24        | -                   | Right Tilted  | 0mm      | Ant 3   | DSI 2            | 41490  | 2680        | 1      | 19.90               | 20.80               | 1.230                  | 42.9         | 1.009                     | -0.03            | 0.952                  | 1     | 1.182                  |
| 2nd      | LTE Band 41 PC2 | 20M      | QPSK       | 50      | 24        | -                   | Right Tilted  | 0mm      | Ant 3   | DSI 2            | 41490  | 2680        | 1      | 19.90               | 20.80               | 1.230                  | 42.9         | 1.009                     | 0.01             | 0.934                  | 1.019 | 1.159                  |
| 1st      | WLAN5.3GHz      | -        | -          | -       | -         | 802.11n-HT40 MCS0   | Left Cheek    | 0mm      | Ant 8+6 | 5G&2.4G+5G&5G+BT | 54     | 5270        | 1      | 16.91               | 17.50               | 1.146                  | 87.66        | 1.141                     | -0.07            | 0.848                  | 1     | 1.108                  |
| 2nd      | WLAN5.3GHz      | -        | -          | -       | -         | 802.11n-HT40 MCS0   | Left Cheek    | 0mm      | Ant 8+6 | 5G&2.4G+5G&5G+BT | 54     | 5270        | 1      | 16.91               | 17.50               | 1.146                  | 87.66        | 1.141                     | 0.03             | 0.812                  | 1.044 | 1.061                  |
| 1st      | WLAN5.5GHz      | -        | -          | -       | -         | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 8+6 | 5G&2.4G+5G&5G+BT | 122    | 5610        | 1      | 17.38               | 18.00               | 1.153                  | 87.28        | 1.146                     | 0.05             | 0.845                  | 1     | 1.117                  |
| 2nd      | WLAN5.5GHz      | -        | -          | -       | -         | 802.11ac-VHT80 MCS0 | Left Cheek    | 0mm      | Ant 8+6 | 5G&2.4G+5G&5G+BT | 122    | 5610        | 1      | 17.38               | 18.00               | 1.153                  | 87.28        | 1.146                     | 0.02             | 0.811                  | 1.042 | 1.072                  |

&lt;10g&gt;

| Plot No. | Band       | Mode              | Test Position | Gap (mm) | Antenna | Power State | Ch. | Freq. (MHz) | Sample | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Ratio | Reported 10g SAR (W/kg) |
|----------|------------|-------------------|---------------|----------|---------|-------------|-----|-------------|--------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------|-------------------------|
| 1st      | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | Ant 8+6 | 5G+BT       | 54  | 5270        | 1      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | -0.07            | 2.010                   | 1     | 2.789                   |
| 2nd      | WLAN5.3GHz | 802.11n-HT40 MCS0 | Right Side    | 0mm      | Ant 8+6 | 5G+BT       | 54  | 5270        | 1      | 18.65               | 19.50               | 1.216                  | 87.66        | 1.141                     | 0.03             | 1.970                   | 1.020 | 2.734                   |

## General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8\text{W/kg}$ .
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45\text{W/kg}$ , only one repeated measurement is required.
3. Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
4. The ratio is the difference in percentage between original and repeated *measured* SAR.
5. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

## 14.6 TDD LTE Linearity Data Analysis

### General Note:

This device support Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operation is 43.3% using UL-DL configuration 1. Per FCC Guidance based on the device behavior, all SAR tests were performed using Power Class 3. Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination, according to the highest time averaged power for all applicable uplink-downlink configurations in Power Class 2. When the reported SAR vs. output power is linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg for 1g and < 3.5 W/kg for 10g, Separate SAR testing for Power Class 2 is not required.

| LTE Band 41(HPUE)-Linearity Data for DSI2-ANT3 |                                |                                | LTE Band 41(HPUE)-Linearity Data for DSI2&6-ANT0 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|--------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |                                                  | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 17.80                          | 20.80                          | Maximum Tune up Power (dBm)                      | 22.80                          | 25.80                          |
| Reported 1g SAR (W/kg)                         | 0.961                          | 1.182                          | Reported 1g SAR (W/kg)                           | 0.043                          | 0.059                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         | Duty Cycle                                       | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 38.14                          | 52.06                          | Frame Averaged (mW)                              | 120.62                         | 164.62                         |
| Linearity SAR (W/kg)                           | 1.312                          |                                | Linearity SAR (W/kg)                             | 0.059                          |                                |
| % deviation from expected linearity            |                                | -9.88%                         | % deviation from expected linearity              |                                | 0.53%                          |

| LTE Band 41(HPUE)-Linearity Data for DSI6-ANT3 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 16.30                          | 19.30                          |
| Reported 1g SAR (W/kg)                         | 0.734                          | 0.907                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 27.00                          | 36.85                          |
| Linearity SAR (W/kg)                           | 1.002                          |                                |
| % deviation from expected linearity            |                                | -9.46%                         |

| LTE Band 41(HPUE)-Linearity Data for DSI1-ANT3 |                                |                                | LTE Band 41(HPUE)-Linearity Data for DSI1-ANT0 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 19.80                          | 22.80                          | Maximum Tune up Power (dBm)                    | 22.80                          | 25.80                          |
| Reported 1g SAR (W/kg)                         | 0.152                          | 0.207                          | Reported 1g SAR (W/kg)                         | 0.245                          | 0.358                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         | Duty Cycle                                     | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 60.45                          | 82.51                          | Frame Averaged (mW)                            | 120.62                         | 164.62                         |
| Linearity SAR (W/kg)                           | 0.207                          |                                | Linearity SAR (W/kg)                           | 0.334                          |                                |
| % deviation from expected linearity            |                                | -0.22%                         | % deviation from expected linearity            |                                | 7.06%                          |

### Body Worn

### Body Worn

| LTE Band 41(HPUE)-Linearity Data for DSI5-ANT3 |                                |                                | LTE Band 41(HPUE)-Linearity Data for DSI5-ANT0 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 17.80                          | 20.80                          | Maximum Tune up Power (dBm)                    | 20.80                          | 23.80                          |
| Reported 1g SAR (W/kg)                         | 0.094                          | 0.131                          | Reported 1g SAR (W/kg)                         | 0.150                          | 0.221                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         | Duty Cycle                                     | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 38.14                          | 52.06                          | Frame Averaged (mW)                            | 76.10                          | 103.87                         |
| Linearity SAR (W/kg)                           | 0.128                          |                                | Linearity SAR (W/kg)                           | 0.205                          |                                |
| % deviation from expected linearity            |                                | 2.11%                          | % deviation from expected linearity            |                                | 7.95%                          |

### Hotspot

### Hotspot

| LTE Band 41(HPUE)-Linearity Data for DSI5-ANT3 |                                |                                | LTE Band 41(HPUE)-Linearity Data for DSI5-ANT0 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 17.80                          | 20.80                          | Maximum Tune up Power (dBm)                    | 20.80                          | 23.80                          |
| Reported 1g SAR (W/kg)                         | 0.225                          | 0.316                          | Reported 1g SAR (W/kg)                         | 0.400                          | 0.550                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         | Duty Cycle                                     | 63.30%                         | 43.30%                         |



# FCC SAR Test Report

Report No. : FA3O3018

|                                     |       |       |                                     |       |        |
|-------------------------------------|-------|-------|-------------------------------------|-------|--------|
| Frame Averaged (mW)                 | 38.14 | 52.06 | Frame Averaged (mW)                 | 76.10 | 103.87 |
| Linearity SAR (W/kg)                | 0.307 |       | Linearity SAR (W/kg)                | 0.546 |        |
| % deviation from expected linearity |       | 2.90% | % deviation from expected linearity |       | 0.74%  |

| LTE Band 41(HPUE)-Linearity Data for DSI2-ANT4 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 21.80                          | 24.80                          |
| Reported 1g SAR (W/kg)                         | 0.596                          | 0.891                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 95.81                          | 130.76                         |
| Linearity SAR (W/kg)                           | 0.813                          |                                |
| % deviation from expected linearity            |                                | 9.53%                          |

| LTE Band 41(HPUE)-Linearity Data for DSI6-ANT4 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 20.80                          | 23.80                          |
| Reported 1g SAR (W/kg)                         | 0.518                          | 0.693                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 76.10                          | 103.87                         |
| Linearity SAR (W/kg)                           | 0.707                          |                                |
| % deviation from expected linearity            |                                | -1.98%                         |

| LTE Band 41(HPUE)-Linearity Data for DSI1-ANT4 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 20.80                          | 23.80                          |
| Reported 1g SAR (W/kg)                         | 0.146                          | 0.189                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 76.10                          | 103.87                         |
| Linearity SAR (W/kg)                           | 0.199                          |                                |
| % deviation from expected linearity            |                                | -5.15%                         |

## Body Worn

| LTE Band 41(HPUE)-Linearity Data for DSI5-ANT4 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 18.80                          | 21.80                          |
| Reported 1g SAR (W/kg)                         | 0.091                          | 0.117                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 48.02                          | 65.54                          |
| Linearity SAR (W/kg)                           | 0.124                          |                                |
| % deviation from expected linearity            |                                | -5.80%                         |

## Hotspot

| LTE Band 41(HPUE)-Linearity Data for DSI5-ANT4 |                                |                                |
|------------------------------------------------|--------------------------------|--------------------------------|
|                                                | LTE Band 41<br>(Power Class 3) | LTE Band 41<br>(Power Class 2) |
| Maximum Tune up Power (dBm)                    | 18.80                          | 21.80                          |
| Reported 1g SAR (W/kg)                         | 0.174                          | 0.235                          |
| Duty Cycle                                     | 63.30%                         | 43.30%                         |
| Frame Averaged (mW)                            | 48.02                          | 65.54                          |
| Linearity SAR (W/kg)                           | 0.237                          |                                |
| % deviation from expected linearity            |                                | -1.05%                         |

## 15. Simultaneous Transmission Analysis

| No. | Simultaneous Transmission Configurations | Portable Handset |           |         |                          |
|-----|------------------------------------------|------------------|-----------|---------|--------------------------|
|     |                                          | Head             | Body-worn | Hotspot | Product specific 10g SAR |
| 1.  | WWAN + WLAN2.4GHz                        | Yes              | Yes       | Yes     | Yes                      |
| 2.  | WWAN + WLAN5GHz                          | Yes              | Yes       | Yes     | Yes                      |
| 3.  | WWAN + Bluetooth                         | Yes              | Yes       | Yes     | Yes                      |
| 4.  | WLAN 5GHz + Bluetooth                    | Yes              | Yes       | Yes     | Yes                      |
| 5.  | WWAN + WLAN 5GHz + Bluetooth             | Yes              | Yes       | Yes     | Yes                      |
| 6.  | WLAN2.4GHz + WLAN5GHz                    | Yes              | Yes       | Yes     | Yes                      |
| 7.  | WWAN + WLAN2.4GHz + WLAN5GHz             | Yes              | Yes       | Yes     | Yes                      |
| 8.  | WWAN + WLAN2.4GHz+NFC                    |                  |           |         | Yes                      |
| 9.  | WWAN + WLAN5GHz+NFC                      |                  |           |         | Yes                      |
| 10. | WWAN + Bluetooth+NFC                     |                  |           |         | Yes                      |
| 11. | WLAN 5GHz + Bluetooth+NFC                |                  |           |         | Yes                      |
| 12. | WWAN + WLAN 5GHz + Bluetooth+NFC         |                  |           |         | Yes                      |
| 13. | WLAN2.4GHz + WLAN5GHz+NFC                |                  |           |         | Yes                      |
| 14. | WWAN + WLAN2.4GHz + WLAN5GHz+NFC         |                  |           |         | Yes                      |

### General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA, LTE and 5GNR (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands and EN-DC combination.
- The 2.4GHz/5GHz WLAN can transmit in SISO and MIMO antenna mode and MIMO SAR can represent SISO SAR.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- For 5GNR EN-DC mode, standalone SAR performed for 5GNR NSA band with the maximum power, EN-DC SAR summed EN-DC mode 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- According to the EUT characteristic, WLAN 2.4GHz and Bluetooth cannot transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz chain 1 and WLAN 2.4GHz chain 0 can transmit simultaneously.
- NFC can transmit simultaneously with other Radios in extremity exposure condition.
- When stand-alone SAR is not required for a transmitter or antenna, its SAR is considered zero in the SAR summing process to assess Multi-band transmission SAR compliance.
- The maximum SAR summation is calculated based on the same configuration and test position.
- For standalone WWAN, always choose the highest SAR among the selected WWAN bands within the selected antenna for each exposure position to perform simultaneous transmission analysis with WLAN/BT. This is the worst co-located analysis and can represent each band.
- When EN-DC SAR co-located with WLAN/Bluetooth, chose the worst SAR among the selected LTE bands within the selected antenna per each test position and also the worst SAR of the selected 5GNR Bands within the selected antenna to do co-located with WLAN/Bluetooth. This is the worst co-located analysis and can represent each LTE bands and each 5GNR bands.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$ , 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.
  - If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.

### 15.1 Head Exposure Conditions

| Exposure Position | 10               | 17              | 10+17         |
|-------------------|------------------|-----------------|---------------|
|                   | WLAN5GHz Ant 8+6 | Bluetooth Ant 7 | Summed        |
|                   | 1g SAR (W/kg)    | 1g SAR (W/kg)   | 1g SAR (W/kg) |
| Right Cheek       | 0.759            | 0.263           | 1.02          |
| Right Tilted      | 0.983            | 0.312           | 1.30          |
| Left Cheek        | 1.117            | 0.457           | 1.57          |
| Left Tilted       | 0.901            | 0.429           | 1.33          |

| Exposure Position | 5                | 10               | 5+10          |
|-------------------|------------------|------------------|---------------|
|                   | WLAN2.4GHz Ant 7 | WLAN5GHz Ant 8+6 | Summed        |
|                   | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg) |
| Right Cheek       | 0.165            | 0.759            | 0.92          |
| Right Tilted      | 0.195            | 0.983            | 1.18          |
| Left Cheek        | 0.358            | 1.117            | <b>1.48</b>   |
| Left Tilted       | 0.228            | 0.901            | 1.13          |

| WWAN Band | Exposure Position | 1             | 5                | 6                | 10               | 1+5+6         | 1+10          |
|-----------|-------------------|---------------|------------------|------------------|------------------|---------------|---------------|
|           |                   | WWAN          | WLAN2.4GHz Ant 7 | WLAN2.4GHz Ant 8 | WLAN5GHz Ant 8+6 | Summed        | Summed        |
|           |                   | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg) | 1g SAR (W/kg) |
| All Bands | Right Cheek       | 0.848         | 0.148            | 0.198            | 0.260            | 1.19          | 1.11          |
|           | Right Tilted      | 0.975         | 0.176            | 0.027            | 0.393            | 1.18          | 1.37          |
|           | Left Cheek        | 0.772         | 0.323            | 0.193            | 0.536            | 1.29          | 1.31          |
|           | Left Tilted       | 0.510         | 0.205            | 0.044            | 0.380            | 0.76          | 0.89          |

| WWAN Band | Exposure Position | 1             | 10               | 17              | 1+10+17       |
|-----------|-------------------|---------------|------------------|-----------------|---------------|
|           |                   | WWAN          | WLAN5GHz Ant 8+6 | Bluetooth Ant 7 | Summed        |
|           |                   | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)   | 1g SAR (W/kg) |
| All Bands | Right Cheek       | 0.848         | 0.164            | 0.263           | 1.28          |
|           | Right Tilted      | 0.975         | 0.196            | 0.312           | 1.48          |
|           | Left Cheek        | 0.772         | 0.282            | 0.457           | 1.51          |
|           | Left Tilted       | 0.510         | 0.200            | 0.429           | 1.14          |

| WWAN Band | Exposure Position | 1             | 5                | 10               | 1+5+10        |
|-----------|-------------------|---------------|------------------|------------------|---------------|
|           |                   | WWAN          | WLAN2.4GHz Ant 7 | WLAN5GHz Ant 8+6 | Summed        |
|           |                   | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg) |
| All Bands | Right Cheek       | 0.848         | 0.066            | 0.229            | 1.14          |
|           | Right Tilted      | 0.975         | 0.078            | 0.317            | 1.37          |
|           | Left Cheek        | 0.772         | 0.144            | 0.398            | 1.31          |
|           | Left Tilted       | 0.510         | 0.091            | 0.282            | 0.88          |

**<ENDC>**

| WWAN Band | FR1 Band | Exposure Position | 1             | 2             | 1+2           |
|-----------|----------|-------------------|---------------|---------------|---------------|
|           |          |                   | WWAN          | FR1           | Summed        |
|           |          |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| LTE Bands | NR Bands | Right Cheek       | 0.475         | 0.777         | 1.25          |
|           |          | Right Tilted      | 0.536         | 0.881         | 1.42          |
|           |          | Left Cheek        | 0.319         | 0.555         | 0.87          |
|           |          | Left Tilted       | 0.319         | 0.523         | 0.84          |

| WWAN Band | FR1 Band | Exposure Position | 1             | 2             | 5                | 6                | 10               | 1+2+5+6       | 1+2+10        |
|-----------|----------|-------------------|---------------|---------------|------------------|------------------|------------------|---------------|---------------|
|           |          |                   | WWAN          | FR1           | WLAN2.4GHz Ant 7 | WLAN2.4GHz Ant 8 | WLAN5GHz Ant 8+6 | Summed        | Summed        |
|           |          |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg) | 1g SAR (W/kg) |
| LTE Bands | NR Bands | Right Cheek       | 0.397         | 0.549         | 0.148            | 0.198            | 0.260            | 1.29          | 1.21          |
|           |          | Right Tilted      | 0.440         | 0.620         | 0.176            | 0.027            | 0.393            | 1.26          | 1.45          |
|           |          | Left Cheek        | 0.257         | 0.555         | 0.323            | 0.193            | 0.536            | 1.33          | 1.35          |
|           |          | Left Tilted       | 0.257         | 0.370         | 0.205            | 0.044            | 0.380            | 0.88          | 1.01          |

| WWAN Band | FR1 Band | Exposure Position | 1             | 2             | 10               | 17              | 1+2+10+17     |
|-----------|----------|-------------------|---------------|---------------|------------------|-----------------|---------------|
|           |          |                   | WWAN          | FR1           | WLAN5GHz Ant 8+6 | Bluetooth Ant 7 | Summed        |
|           |          |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)   | 1g SAR (W/kg) |
| LTE Bands | NR Bands | Right Cheek       | 0.397         | 0.549         | 0.164            | 0.263           | 1.37          |
|           |          | Right Tilted      | 0.440         | 0.620         | 0.196            | 0.312           | <b>1.57</b>   |
|           |          | Left Cheek        | 0.257         | 0.555         | 0.282            | 0.457           | 1.55          |
|           |          | Left Tilted       | 0.257         | 0.370         | 0.200            | 0.429           | 1.26          |

| WWAN Band | FR1 Band | Exposure Position | 1             | 2             | 5                | 10               | 1+2+5+10      |
|-----------|----------|-------------------|---------------|---------------|------------------|------------------|---------------|
|           |          |                   | WWAN          | FR1           | WLAN2.4GHz Ant 7 | WLAN5GHz Ant 8+6 | Summed        |
|           |          |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg) |
| LTE Bands | NR Bands | Right Cheek       | 0.397         | 0.549         | 0.066            | 0.229            | 1.24          |
|           |          | Right Tilted      | 0.440         | 0.620         | 0.078            | 0.317            | 1.46          |
|           |          | Left Cheek        | 0.257         | 0.555         | 0.144            | 0.398            | 1.35          |
|           |          | Left Tilted       | 0.257         | 0.370         | 0.091            | 0.282            | 1.00          |

## 15.2 Hotspot Exposure Conditions

| WWAN Band | Exposure Position | 1             | 5                | 6                | 10               | 17              | 1+5+6         | 1+5+10        | 1+10+17       |
|-----------|-------------------|---------------|------------------|------------------|------------------|-----------------|---------------|---------------|---------------|
|           |                   | WWAN          | WLAN2.4GHz Ant 7 | WLAN2.4GHz Ant 8 | WLAN5GHz Ant 8+6 | Bluetooth Ant 7 | Summed        | Summed        | Summed        |
|           |                   | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| All Bands | Front             | 0.573         | 0.077            | 0.133            | 0.225            | 0.087           | 0.78          | 0.88          | 0.89          |
|           | Back              | 0.915         | 0.148            | 0.139            | 0.434            | 0.100           | 1.20          | 1.50          | 1.45          |
|           | Left side         | 1.032         |                  |                  |                  |                 | 1.03          | 1.03          | 1.03          |
|           | Right side        |               | 0.070            | 0.182            | 0.689            | 0.026           | 0.25          | 0.76          | 0.72          |
|           | Top side          | 0.637         | 0.165            |                  | 0.443            | 0.169           | 0.80          | 1.25          | 1.25          |
|           | Bottom side       | 0.868         |                  |                  |                  |                 | 0.87          | 0.87          | 0.87          |

<ENDC>

| WWAN Band | FR1 Band | Exposure Position | 1             | 2             | 5                | 6                | 10               | 17              | 1+2+5+6       | 1+2+5+10      | 1+2+10+17     |
|-----------|----------|-------------------|---------------|---------------|------------------|------------------|------------------|-----------------|---------------|---------------|---------------|
|           |          |                   | WWAN          | FR1           | WLAN2.4GHz Ant 7 | WLAN2.4GHz Ant 8 | WLAN5GHz Ant 8+6 | Bluetooth Ant 7 | Summed        | Summed        | Summed        |
|           |          |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| LTE Bands | NR Bands | Front             | 0.179         | 0.222         | 0.077            | 0.133            | 0.225            | 0.087           | 0.61          | 0.70          | 0.71          |
|           |          | Back              | 0.321         | 0.356         | 0.148            | 0.139            | 0.434            | 0.100           | 0.96          | 1.26          | 1.21          |
|           |          | Left side         | 0.302         | 0.391         |                  |                  |                  |                 | 0.69          | 0.69          | 0.69          |
|           |          | Right side        |               |               | 0.070            | 0.182            | 0.689            | 0.026           | 0.25          | 0.76          | 0.72          |
|           |          | Top side          | 0.187         | 0.339         | 0.165            |                  | 0.443            | 0.169           | 0.69          | 1.13          | 1.14          |
|           |          | Bottom side       | 0.385         | 0.424         |                  |                  |                  |                 | 0.81          | 0.81          | 0.81          |



### 15.3 Body-Worn Accessory Exposure Conditions

| WWAN Band | Exposure Position | 1             | 5                | 6                | 10               | 17              | 1+5+6         | 1+5+10        | 1+10+17       |
|-----------|-------------------|---------------|------------------|------------------|------------------|-----------------|---------------|---------------|---------------|
|           |                   | WWAN          | WLAN2.4GHz Ant 7 | WLAN2.4GHz Ant 8 | WLAN5GHz Ant 8+6 | Bluetooth Ant 7 | Summed        | Summed        | Summed        |
|           |                   | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| All Bands | Front             | 0.286         | 0.067            | 0.075            | 0.233            | 0.065           | 0.43          | 0.59          | 0.58          |
|           | Back              | 0.436         | 0.089            | 0.161            | 0.704            | 0.068           | 0.69          | 1.23          | 1.21          |

**<ENDC>**

| WWAN Band | FR1 Band | Exposure Position | 1             | 2             | 1+2           |
|-----------|----------|-------------------|---------------|---------------|---------------|
|           |          |                   | WWAN          | FR1           | Summed        |
|           |          |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| LTE Bands | NR Bands | Front             | 0.134         | 0.203         | 0.34          |
|           |          | Back              | 0.254         | 0.299         | 0.55          |

| WWAN Band | FR1 Band | Exposure Position | 1             | 2             | 5                | 6                | 10               | 17              | 1+2+5+6       | 1+2+5+10      | 1+2+10+17     |
|-----------|----------|-------------------|---------------|---------------|------------------|------------------|------------------|-----------------|---------------|---------------|---------------|
|           |          |                   | WWAN          | FR1           | WLAN2.4GHz Ant 7 | WLAN2.4GHz Ant 8 | WLAN5GHz Ant 8+6 | Bluetooth Ant 7 | Summed        | Summed        | Summed        |
|           |          |                   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)    | 1g SAR (W/kg)   | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) |
| LTE Bands | NR Bands | Front             | 0.096         | 0.148         | 0.067            | 0.075            | 0.233            | 0.065           | 0.39          | 0.54          | 0.54          |
|           |          | Back              | 0.161         | 0.215         | 0.089            | 0.161            | 0.704            | 0.068           | 0.63          | 1.17          | 1.15          |

### 15.4 Product specific 10g SAR Exposure Conditions

**Remark:**

- For WLAN2.4G/Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.
- The unit of SAR evaluation is W/kg.

| (b) WWAN Band | Exposure Position | 1              | 10               | 19             | 1+10+19       |
|---------------|-------------------|----------------|------------------|----------------|---------------|
|               |                   | WWAN           | WLAN5GHz Ant 8+6 | NFC            | Summed        |
|               |                   | 10g SAR (W/kg) | 10g SAR (W/kg)   | 10g SAR (W/kg) | 1g SAR (W/kg) |
| All Bands     | Front             |                | 0.623            |                | 0.62          |
|               | Back              |                | 0.519            | 0.010          | 0.53          |
|               | Left side         | 0.987          |                  |                | 0.99          |
|               | Right side        |                | 1.239            |                | 1.24          |
|               | Top side          |                | 0.928            |                | 0.93          |
|               | Bottom side       | 1.491          |                  |                | <b>1.49</b>   |

| WWAN Band | Exposure Position | 1              | 10               | 19             | 1+10+19       |
|-----------|-------------------|----------------|------------------|----------------|---------------|
|           |                   | WWAN           | WLAN5GHz Ant 8+6 | NFC            | Summed        |
|           |                   | 10g SAR (W/kg) | 10g SAR (W/kg)   | 10g SAR (W/kg) | 1g SAR (W/kg) |
| All Bands | Front             |                | 0.281            |                | 0.28          |
|           | Back              |                | 0.234            | 0.010          | 0.24          |
|           | Left side         | 0.987          |                  |                | 0.99          |
|           | Right side        |                | 0.564            |                | 0.56          |
|           | Top side          |                | 0.418            |                | 0.42          |
|           | Bottom side       | 1.491          |                  |                | 1.49          |

| WWAN Band | Exposure Position | 1              | 10               | 19             | 1+10+19       |
|-----------|-------------------|----------------|------------------|----------------|---------------|
|           |                   | WWAN           | WLAN5GHz Ant 8+6 | NFC            | Summed        |
|           |                   | 10g SAR (W/kg) | 10g SAR (W/kg)   | 10g SAR (W/kg) | 1g SAR (W/kg) |
| All Bands | Front             |                | 0.495            |                | 0.50          |
|           | Back              |                | 0.414            | 0.010          | 0.42          |
|           | Left side         | 0.987          |                  |                | 0.99          |
|           | Right side        |                | 0.998            |                | 1.00          |
|           | Top side          |                | 0.738            |                | 0.74          |
|           | Bottom side       | 1.491          |                  |                | 1.49          |

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## 16. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is  $< 1.5$  W/kg and the measured 10-g SAR within a frequency band is  $< 3.75$  W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

## **17. 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 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [9] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [10] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [11] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [12] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [13] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015

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