



FCC SAR TEST REPORT

FCC ID : IHDT56YJ2
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Applicant : Motorola Mobility, LLC
222 W Merchandise Mart Plaza, Suite 1800,
Chicago, IL 60654, United States
Standard : FCC 47 CFR Part 2 (2.1093)
ANSI/IEEE C95.1-1992
IEEE 1528-2013

The product was received on Feb. 05, 2020 and testing was started from Feb. 19, 2020 and completed on Mar. 15, 2020. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Cona Huang / Deputy Manager

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Table of Contents

1. Statement of Compliance 4
2. Guidance Applied..... 5
3. Equipment Under Test (EUT) Information 6
3.1 General Information 6
3.2 General LTE SAR Test and Reporting Considerations 7
4. Proximity Sensor Triggering Test.....10
5. RF Exposure Limits.....16
5.1 Uncontrolled Environment.....16
5.2 Controlled Environment.....16
6. Specific Absorption Rate (SAR).....17
6.1 Introduction17
6.2 SAR Definition.....17
7. System Description and Setup18
7.1 E-Field Probe19
7.2 Data Acquisition Electronics (DAE)19
7.3 Phantom.....20
7.4 Device Holder.....21
8. Measurement Procedures22
8.1 Spatial Peak SAR Evaluation22
8.2 Power Reference Measurement.....23
8.3 Area Scan23
8.4 Zoom Scan.....24
8.5 Volume Scan Procedures.....24
8.6 Power Drift Monitoring.....24
9. Test Equipment List25
10. System Verification26
10.1 Tissue Simulating Liquids.....26
10.2 Tissue Verification27
10.3 System Performance Check Results.....28
11. RF Exposure Positions30
11.1 Ear and handset reference point30
11.2 Definition of the cheek position.....31
11.3 Definition of the tilt position.....32
11.4 Body Worn Accessory32
11.5 Extremity Exposure33
11.6 Wireless Router.....33
12. GSM/UMTS/CDMA/LTE Output Power (Unit: dBm).....34
13. DL carrier aggregation power verification119
14. 5G NR Output Power (Unit: dBm)123
15. WiFi/Bluetooth Output Power (Unit: dBm)129
16. Antenna Location163
17. SAR Test Results164
17.1 Head SAR167
17.2 Hotspot SAR173
17.3 Body Worn Accessory SAR.....181
17.4 Product Specific SAR.....187
17.5 Repeated SAR Measurement190
18. Simultaneous Transmission Analysis.....191
18.1 Head Exposure Conditions192
18.2 Hotspot Exposure Conditions.....195
18.3 Body-Worn Accessory Exposure Conditions200
18.4 Product Specific Exposure Conditions203
19. Uncertainty Assessment205
20. References205
Appendix A. Plots of System Performance Check
Appendix B. Plots of High SAR Measurement
Appendix C. DASy Calibration Certificate
Appendix D. Test Setup Photos



1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for Motorola Mobility, LLC, Mobile Cellular Phone, are as follows.

| Equipment Class | Frequency Band | Highest SAR Summary | | | | Highest Simultaneous Transmission 1g SAR (W/kg) |
|------------------|------------------|--------------------------|-------------------------------|-----------------------------|--------------------------------------|--|
| | | Head (Separation 0mm) | Body-worn (Separation 5mm) | Hotspot (Separation 5mm) | Product Specific (Separation 0mm) | |
| | | 1g SAR (W/kg) | | | | |
| Licensed | GSM850 | 0.37 | 1.14 | 1.14 | | 1.59 |
| | GSM1900 | 0.20 | 0.59 | 0.96 | 3.51 | |
| | WCDMA II | 0.16 | 0.85 | 1.31 | 3.59 | |
| | WCDMA IV | 0.14 | 0.96 | 1.09 | 3.24 | |
| | WCDMA V | 0.19 | 0.61 | 0.61 | | |
| | CDMA BC0 | 0.53 | 0.89 | 0.93 | | |
| | CDMA BC1 | 0.25 | 0.93 | 1.16 | 3.49 | |
| | LTE Band 7 | 0.06 | 0.47 | 1.15 | 3.02 | |
| | LTE Band 12 / 17 | 0.19 | 0.54 | 0.52 | | |
| | LTE Band 13 | 0.31 | 0.91 | 0.91 | | |
| | LTE Band 2 / 25 | 0.19 | 0.90 | 1.31 | 3.59 | |
| | LTE Band 5 / 26 | 0.22 | 0.85 | 0.85 | | |
| | LTE Band 30 | 0.04 | 0.71 | 1.16 | 2.20 | |
| | LTE Band 38 / 41 | 0.01 | 0.38 | 0.72 | | |
| | LTE Band 4 / 66 | 0.16 | 0.63 | 1.25 | 3.11 | |
| | LTE Band 71 | 0.14 | 0.53 | 0.53 | | |
| | n5 | 0.12 | 0.06 | 0.06 | | |
| n66 | 0.37 | 0.71 | 0.75 | | | |
| n71 | 0.11 | 0.12 | 0.12 | | | |
| DTS | 2.4GHz WLAN | 0.05 | 0.58 | 0.31 | 1.16 | 1.58 |
| NII | 5GHz WLAN | 0.84 | 0.21 | 0.11 | 0.92 | 1.59 |
| DSS | Bluetooth | 0.00 | 0.25 | 0.25 | | 1.59 |
| Date of Testing: | | 2020/2/19 ~ 2019/3/15 | | | | |

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR, 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

Reviewed by: Jason Wang
Report Producer: Wan Liu



2. 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
- FCC KDB 941225 D07 UMPC Mini Tablet v01r02



3. Equipment Under Test (EUT) Information

3.1 General Information

| Product Feature & Specification | |
|--|--|
| Equipment Name | Mobile Cellular Phone |
| Brand Name | Motorola |
| FCC ID | IHDT56YJ2 |
| Wireless Technology and Frequency Range | GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV: 1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz CDMA2000 BC0: 824.7 MHz ~ 848.31 MHz CDMA 2000 BC1: 1851.25 MHz ~ 1908.75 MHz LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz 5G NR n5 : 826.5 MHz ~ 846.5 MHz 5G NR n66 : 1712.5 MHz ~ 1777.5 MHz 5G NR n71 : 665.5 MHz ~ 695.5 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC : 13.56 MHz |
| Mode | GSM/GPRS/EGPRS RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA CDMA2000 : 1xRTT/1xEv-Do(Rev.0)/1xEv-Do(Rev.A) LTE: QPSK, 16QAM, 64QAM 5GNR: DFT-s-OFDM/CP-OFDM, PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM WLAN: 802.11a/b/g/n/ac/ax HT20 / HT40 / VHT20 / VHT40 / VHT80 / HE20 / HE40 / HE80 Bluetooth BR/EDR/LE NFC:ASK |
| HW Version | DVT2 |
| 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 | Identical Prototype |
| Remark: 1. This device WLAN 2.4GHz / 5.2GHz / 5.8GHz supports Hotspot operation and Bluetooth support tethering applications. 2. The device implements the power management for SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity) and the smart transmit will manage to ensure the averaged power level not exceeding the associated power table. Proximity sensors are used to detect the exposure conditions and the verification is illustrated in section 4. Details about the power management decision are provided in the operational description. | |



3.2 General LTE SAR Test and Reporting Considerations

| Summarized necessary items addressed in KDB 941225 D05 v02r05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------------|---|--------|--------|--------|----------|--|----------|---------|---------|-------|--------|--------|--------|------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|--------|-----|-----|-----|------|------|------|-----|---------|-----|--|--|--|--|--|-----|
| FCC ID | IHDT56YJ2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Equipment Name | Mobile Cellular Phone | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Frequency Range of each LTE transmission band | LTE Band 2: 1850.7 MHz ~ 1909.3 MHz LTE Band 4: 1710.7 MHz ~ 1754.3 MHz LTE Band 5: 824.7 MHz ~ 848.3 MHz LTE Band 7: 2502.5 MHz ~ 2567.5 MHz LTE Band 12: 699.7 MHz ~ 715.3 MHz LTE Band 13: 779.5 MHz ~ 784.5 MHz LTE Band 17: 706.5 MHz ~ 713.5 MHz LTE Band 25: 1850.7 MHz ~ 1914.3 MHz LTE Band 26: 814.7 MHz ~ 848.3 MHz LTE Band 30: 2307.5 MHz ~ 2312.5 MHz LTE Band 38: 2572.5 MHz ~ 2617.5 MHz LTE Band 41: 2498.5 MHz ~ 2687.5 MHz LTE Band 66: 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Channel Bandwidth | LTE Band 02: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 04: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 05: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 07: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 13: 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 30: 5MHz, 10MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 71: 5MHz, 10MHz, 15MHz, 20MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| uplink modulations used | QPSK / 16QAM / 64QAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Voice / Data requirements | Voice and Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE MPR permanently built-in by design | <p align="center">Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</p> <table border="1"> <thead> <tr> <th rowspan="2">Modulation</th> <th colspan="6">Channel bandwidth / Transmission bandwidth (N_{RB})</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> </thead> <tbody> <tr> <td>QPSK</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>≤ 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>> 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>≤ 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>> 5</td> <td>> 4</td> <td>> 8</td> <td>> 12</td> <td>> 16</td> <td>> 18</td> <td>≤ 3</td> </tr> <tr> <td>256 QAM</td> <td colspan="6">≥ 1</td> <td>≤ 5</td> </tr> </tbody> </table> | Modulation | Channel bandwidth / Transmission bandwidth (N _{RB}) | | | | | | 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 |
| Modulation | Channel bandwidth / Transmission bandwidth (N _{RB}) | | | | | | 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 hotspot/body-worn/extremity mode power reduction applied to satisfy SAR compliance. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Carrier Aggregation Combinations | Inter-Band and Intra-Band possible combinations and the detail power measurement please referred to section 12. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LTE Carrier Aggregation Additional Information | This device supports maximum of 7 carriers in the downlink. Additional following LTE Release features are not supported: Relay, HetNet, Enhanced MIMO, eICI, WiFi Offloading, MDH, eMBMA, Cross-Carrier Scheduling, Enhanced SC-FDMA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| 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 | | 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 | 20407 | 824.7 | 20415 | 825.5 | 20425 | 826.5 | 20450 | 829 | 20450 | 829 | 20450 | 829 | | | | |
| M | 20525 | 836.5 | 20525 | 836.5 | 20525 | 836.5 | 20525 | 836.5 | 20525 | 836.5 | 20525 | 836.5 | | | | |
| H | 20643 | 848.3 | 20635 | 847.5 | 20625 | 846.5 | 20600 | 844 | 20600 | 844 | 20600 | 844 | | | | |
| LTE Band 7 | | | | | | | | | | | | | | | | |
| | Bandwidth 5 MHz | | Bandwidth 10 MHz | | Bandwidth 15 MHz | | Bandwidth 20 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 | 20850 | 2510 | 20850 | 2510 | | | | |
| M | 21100 | 2535 | 21100 | 2535 | 21100 | 2535 | 21100 | 2535 | 21100 | 2535 | 21100 | 2535 | | | | |
| H | 21425 | 2567.5 | 21400 | 2565 | 21375 | 2562.5 | 21350 | 2560 | 21350 | 2560 | 21350 | 2560 | | | | |
| LTE Band 12 | | | | | | | | | | | | | | | | |
| | 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 | 23017 | 699.7 | 23025 | 700.5 | 23035 | 701.5 | 23060 | 704 | 23060 | 704 | 23060 | 704 | | | | |
| M | 23095 | 707.5 | 23095 | 707.5 | 23095 | 707.5 | 23095 | 707.5 | 23095 | 707.5 | 23095 | 707.5 | | | | |
| H | 23173 | 715.3 | 23165 | 714.5 | 23155 | 713.5 | 23130 | 711 | 23130 | 711 | 23130 | 711 | | | | |
| LTE Band 13 | | | | | | | | | | | | | | | | |
| | Bandwidth 5 MHz | | | | Bandwidth 10 MHz | | | | Bandwidth 15 MHz | | | | Bandwidth 20 MHz | | | |
| | Channel # | | Freq.(MHz) | | Channel # | | Freq.(MHz) | | Channel # | | Freq.(MHz) | | Channel # | | Freq.(MHz) | |
| L | 23205 | | 779.5 | | 23230 | | 782 | | 23255 | | 784.5 | | 23280 | | 787 | |
| M | 23230 | | 782 | | 23255 | | 784.5 | | 23280 | | 787 | | 23305 | | 789.5 | |
| H | 23255 | | 784.5 | | 23280 | | 787 | | 23305 | | 789.5 | | 23330 | | 792 | |
| LTE Band 17 | | | | | | | | | | | | | | | | |
| | Bandwidth 5 MHz | | | | Bandwidth 10 MHz | | | | Bandwidth 15 MHz | | | | Bandwidth 20 MHz | | | |
| | Channel # | | Freq.(MHz) | | Channel # | | Freq.(MHz) | | Channel # | | Freq.(MHz) | | Channel # | | Freq.(MHz) | |
| L | 23755 | | 706.5 | | 23780 | | 709 | | 23805 | | 712 | | 23830 | | 715 | |
| M | 23790 | | 710 | | 23815 | | 713 | | 23840 | | 716 | | 23865 | | 719 | |
| H | 23825 | | 713.5 | | 23850 | | 716.5 | | 23875 | | 719.5 | | 23900 | | 722.5 | |
| LTE Band 25 | | | | | | | | | | | | | | | | |
| | Bandwidth 1.4 MHz | | Bandwidth 3 MHz | | Bandwidth 5 MHz | | Bandwidth 10 MHz | | Bandwidth 15 MHz | | Bandwidth 20 MHz | | | | | |
| | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | | | | |
| L | 26047 | 1850.7 | 26055 | 1851.5 | 26065 | 1852.5 | 26090 | 1855 | 26115 | 1857.5 | 26140 | 1860 | | | | |
| M | 26340 | 1880 | 26340 | 1880 | 26340 | 1880 | 26340 | 1880 | 26340 | 1880 | 26340 | 1880 | | | | |
| H | 26683 | 1914.3 | 26675 | 1913.5 | 26665 | 1912.5 | 26640 | 1910 | 26615 | 1907.5 | 26590 | 1905 | | | | |

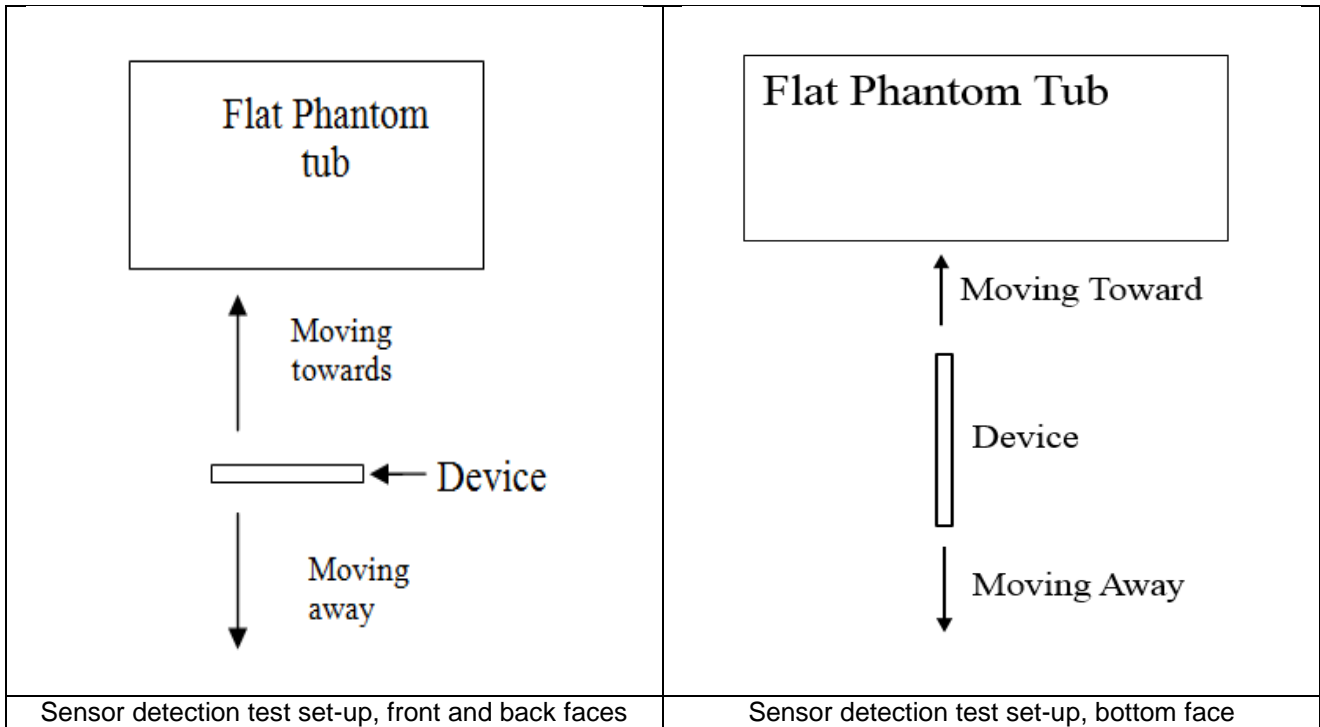


| LTE Band 26 | | | | | | | | | | | | |
|-------------|-------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|
| | Bandwidth 1.4 MHz | | Bandwidth 3 MHz | | Bandwidth 5 MHz | | Bandwidth 10 MHz | | Bandwidth 15 MHz | | | |
| | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | | |
| L | 26697 | 814.7 | 26705 | 815.5 | 26715 | 816.5 | 26740 | 819 | 26765 | 821.5 | | |
| M | 26865 | 831.5 | 26865 | 831.5 | 26865 | 831.5 | 26865 | 831.5 | 26865 | 831.5 | | |
| H | 27033 | 848.3 | 27025 | 847.5 | 27015 | 846.5 | 26990 | 844 | 26965 | 841.5 | | |
| LTE Band 30 | | | | | | | | | | | | |
| | Bandwidth 5 MHz | | | | Bandwidth 10 MHz | | | | | | | |
| | Channel # | | Freq.(MHz) | | Channel # | | Freq.(MHz) | | | | | |
| L | 27685 | | 2307.5 | | 27710 | | 2310 | | | | | |
| M | 27710 | | 2310 | | | | | | | | | |
| H | 27735 | | 2312.5 | | | | | | | | | |
| LTE Band 38 | | | | | | | | | | | | |
| | Bandwidth 5 MHz | | Bandwidth 10 MHz | | Bandwidth 15 MHz | | Bandwidth 20 MHz | | | | | |
| | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | | | | |
| L | 37775 | 2572.5 | 37800 | 2575 | 37825 | 2577.5 | 37850 | 2580 | | | | |
| M | 38000 | 2595 | 38000 | 2595 | 38000 | 2595 | 38000 | 2595 | | | | |
| H | 38225 | 2617.5 | 38200 | 2615 | 38175 | 2612.5 | 38150 | 2610 | | | | |
| LTE Band 41 | | | | | | | | | | | | |
| | Bandwidth 5 MHz | | Bandwidth 10 MHz | | Bandwidth 15 MHz | | Bandwidth 20 MHz | | | | | |
| | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | | | | |
| L | 39675 | 2498.5 | 39700 | 2501 | 39725 | 2503.5 | 39750 | 2506 | | | | |
| L | 40148 | 2545.8 | 40160 | 2547 | 40173 | 2548.3 | 40185 | 2549.5 | | | | |
| M | 40620 | 2593 | 40620 | 2593 | 40620 | 2593 | 40620 | 2593 | | | | |
| H | 41093 | 2640.3 | 41080 | 2639 | 41068 | 2637.8 | 41055 | 2636.5 | | | | |
| H | 41565 | 2687.5 | 41540 | 2685 | 41515 | 2682.5 | 41490 | 2680 | | | | |
| LTE Band 66 | | | | | | | | | | | | |
| | Bandwidth 1.4 MHz | | Bandwidth 3 MHz | | Bandwidth 5 MHz | | Bandwidth 10 MHz | | Bandwidth 15 MHz | | Bandwidth 20 MHz | |
| | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) |
| L | 131979 | 1710.7 | 131987 | 1711.5 | 131997 | 1712.5 | 132022 | 1715 | 132047 | 1717.5 | 132072 | 1720 |
| M | 132322 | 1745 | 132322 | 1745 | 132322 | 1745 | 132322 | 1745 | 132322 | 1745 | 132322 | 1745 |
| H | 132665 | 1779.3 | 132657 | 1778.5 | 132647 | 1777.5 | 132622 | 1775 | 132597 | 1772.5 | 132572 | 1770 |
| LTE Band 71 | | | | | | | | | | | | |
| | Bandwidth 5 MHz | | Bandwidth 10 MHz | | Bandwidth 15 MHz | | Bandwidth 20 MHz | | | | | |
| | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | Ch. # | Freq. (MHz) | | | | |
| L | 133147 | 665.5 | 133172 | 668 | 133197 | 670.5 | 133222 | 673 | | | | |
| M | 133297 | 680.5 | 133297 | 680.5 | 133297 | 680.5 | 133297 | 680.5 | | | | |
| H | 133447 | 695.5 | 133422 | 693 | 133397 | 690.5 | 133372 | 688 | | | | |

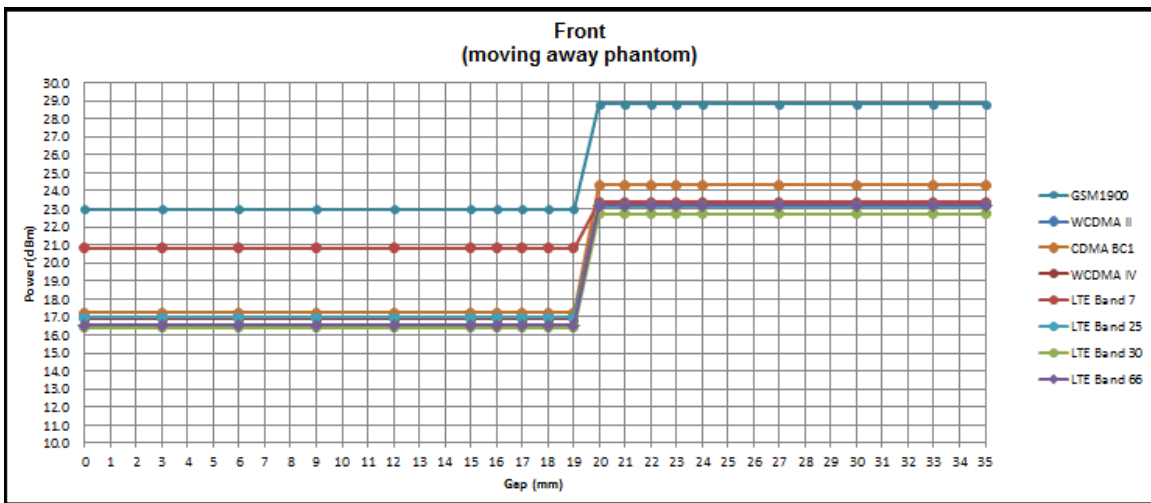
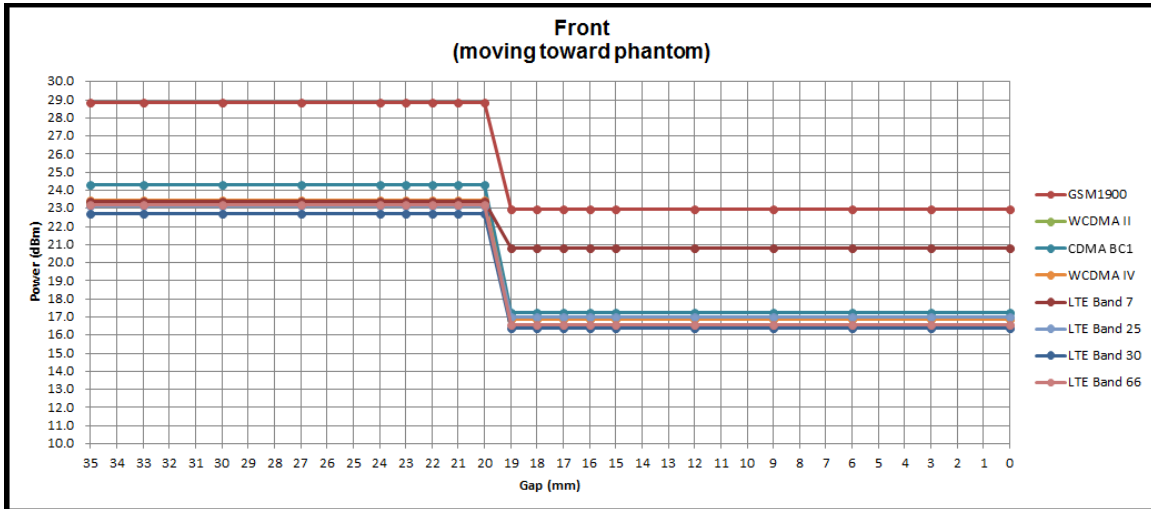
4. Proximity Sensor Triggering Test

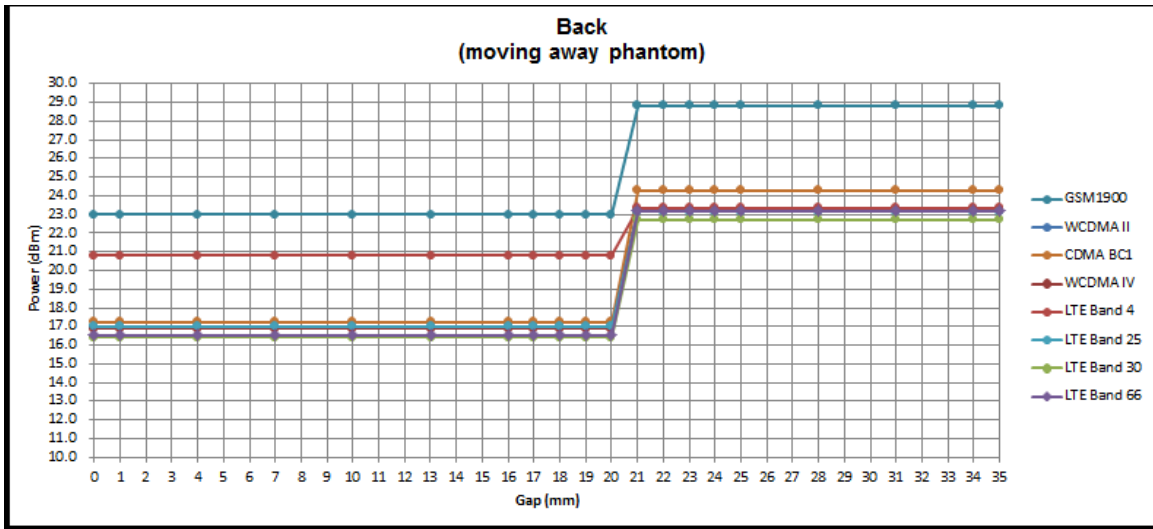
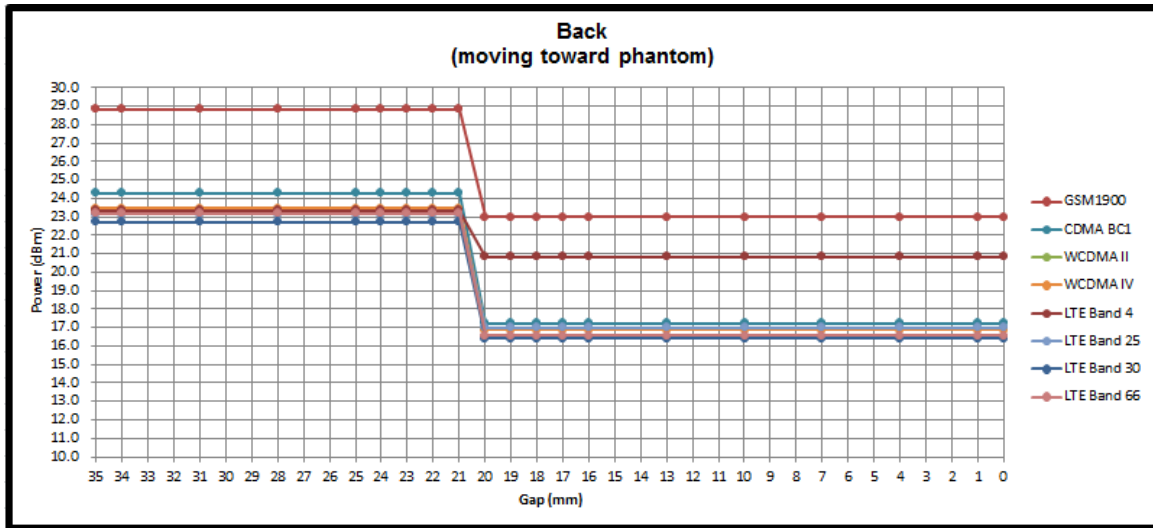
<Proximity Sensor Triggering Distance>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (3700MHz) and lowest (750MHz) frequency was used for proximity sensor triggering testing.
2. Capacitive proximity sensors placed coincident with antenna elements at the top and bottom ends of the phone are utilized to determine when the device comes in proximity of the user's body at the front or back of the device.
3. When the sensor is active, the device will reduce maximum output powers on the GSM1900, WCDMA B2 / B4, CDMA BC1, LTE B2 / B4 / B7 / B25 / B30 / B66 / B48.
4. Body-worn/Hotspot SAR was tested at 5mm separation and extremity SAR was tested at 0mm separation, at the reduced power level in each associated power table. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance was performed:
 - a. For Body-worn:
 - Front: [14 mm](#)
 - Back: [18 mm](#)
 - b. For Extremity::
 - Front: [5 mm](#)
 - Back: [8 mm](#)
 - Bottom: [7 mm](#)

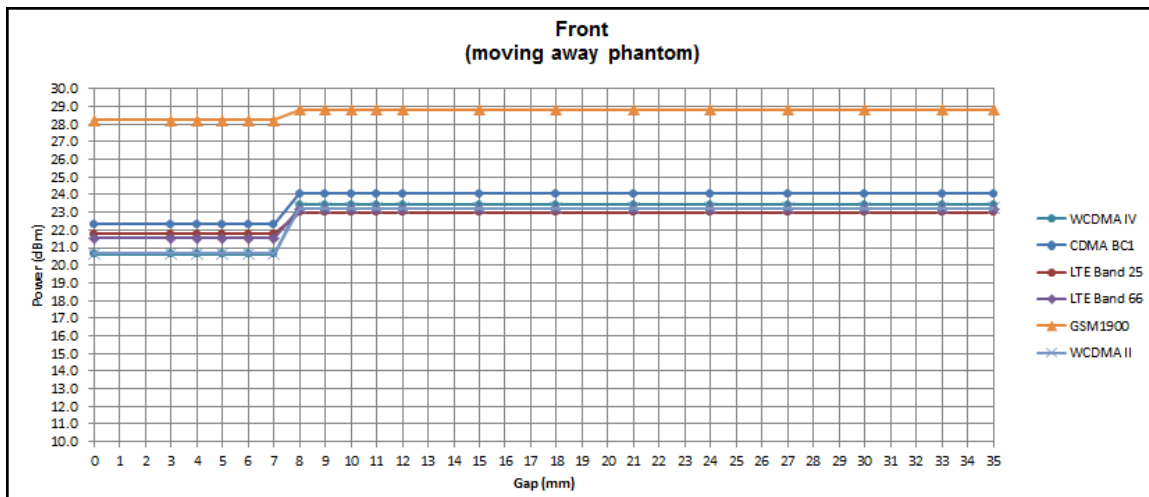
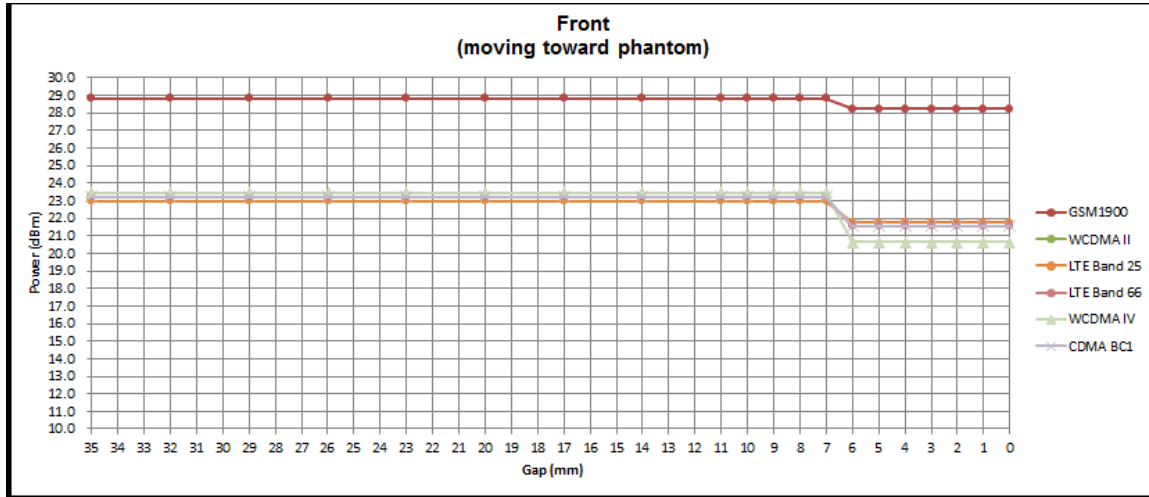


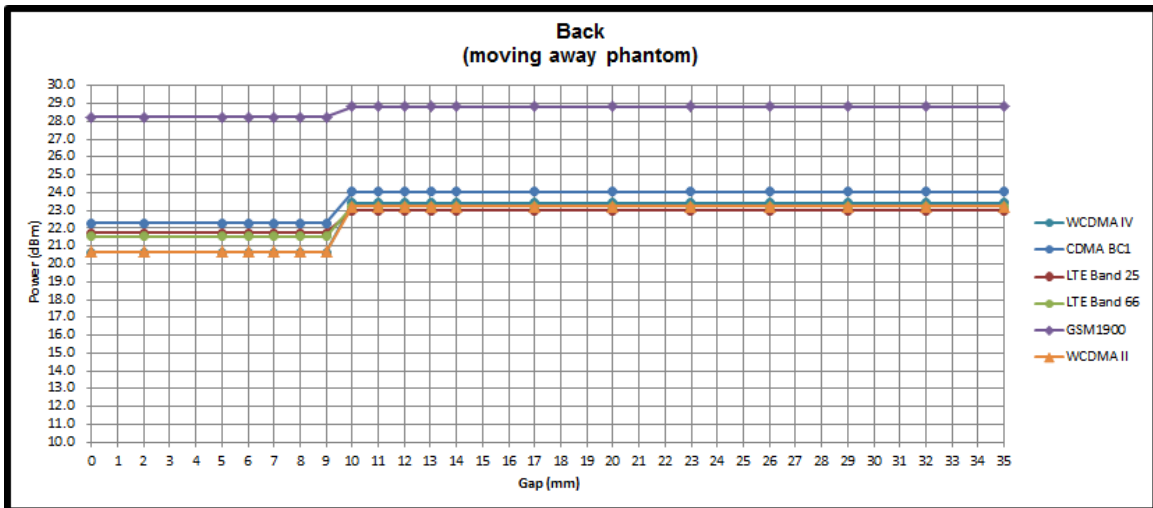
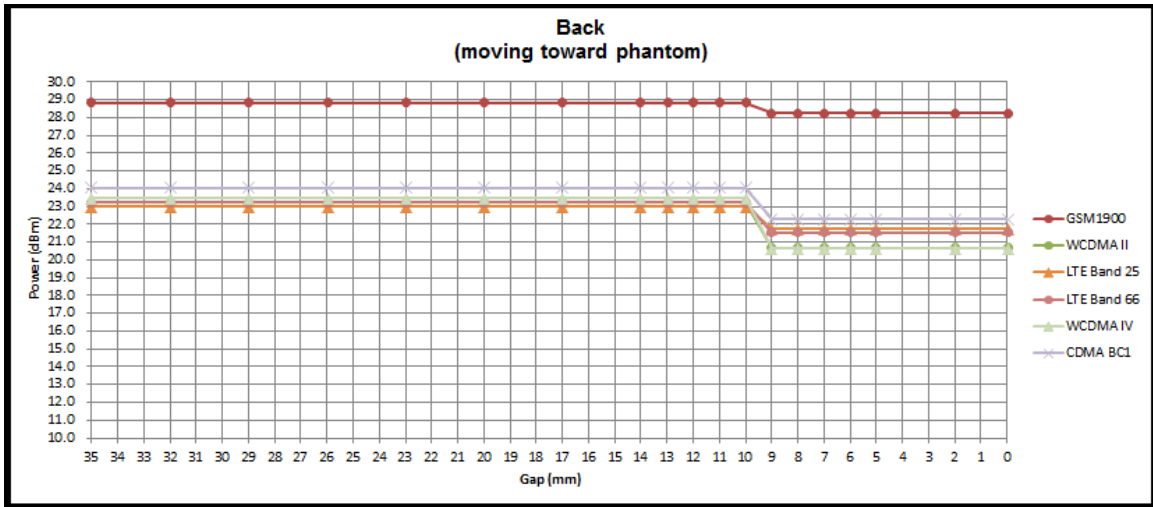
| Proximity Top+ Bottom Sensor Trigger Distance for Body-worn(mm) | | | | |
|---|----------------|-------------|----------------|-------------|
| Position | Front | | Back | |
| Position | Moving towards | Moving away | Moving towards | Moving away |
| Minimum | 19 | 19 | 20 | 20 |

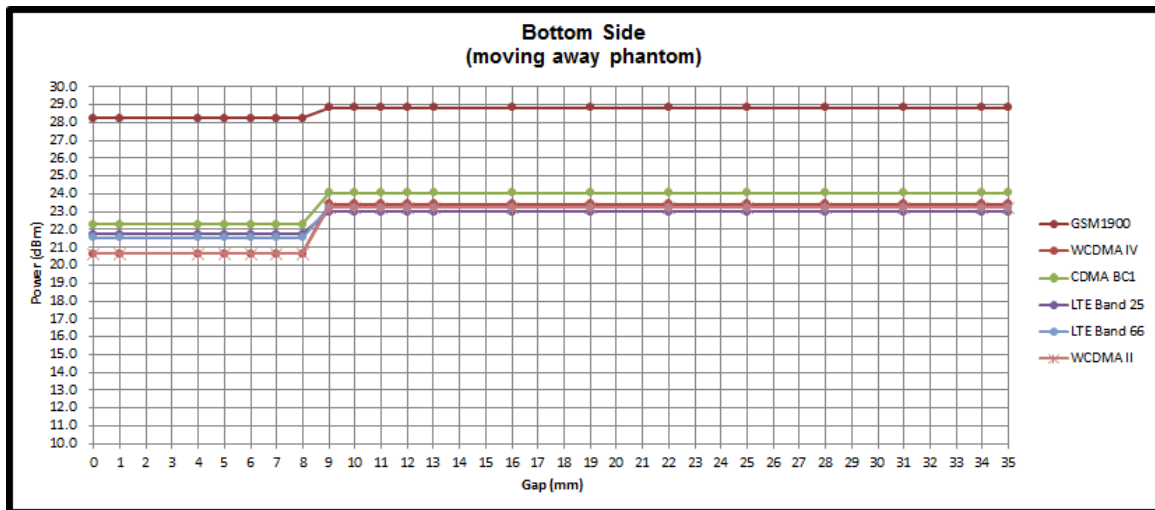
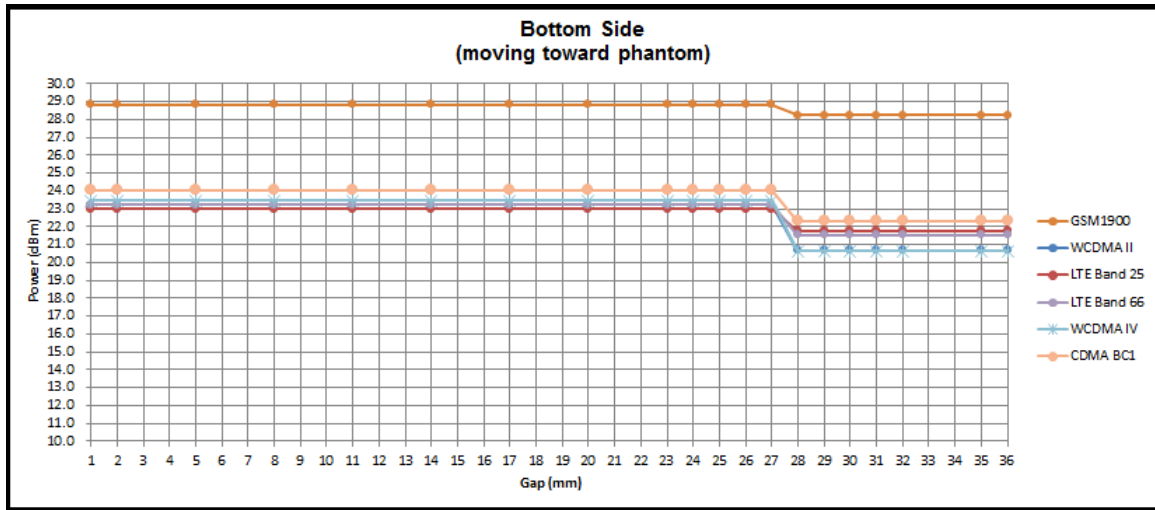




| Proximity Bottom Sensor Trigger Distance (mm) for Extremity | | | | | | |
|---|----------------|-------------|----------------|-------------|----------------|-------------|
| Position | Front | | Back | | Bottom Side | |
| Position | Moving towards | Moving away | Moving towards | Moving away | Moving towards | Moving away |
| Minimum | 6 | 7 | 9 | 9 | 8 | 8 |









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 |

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

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 (ρ). The equation description is as below:

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

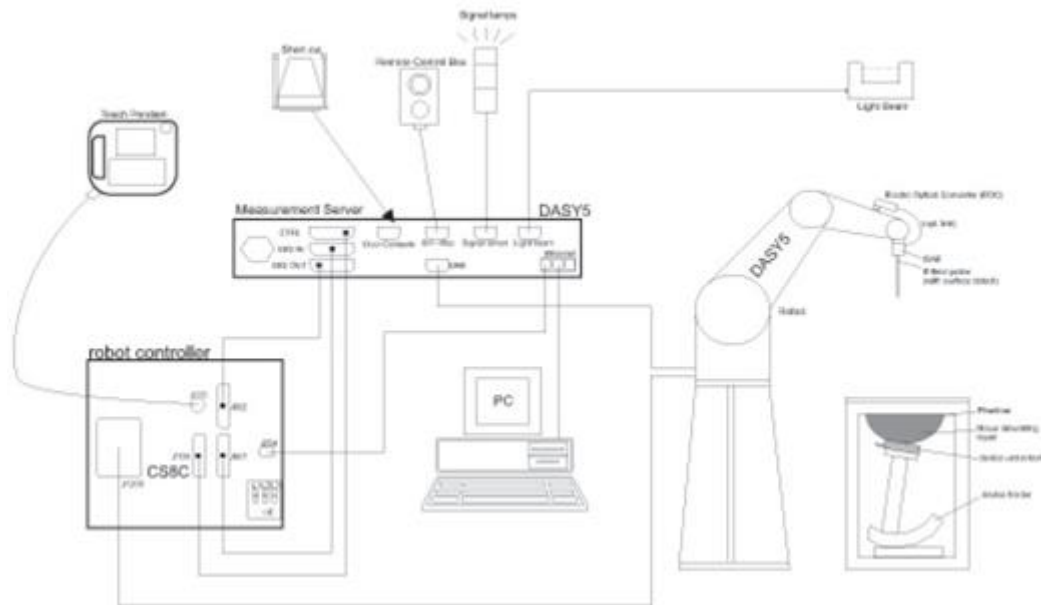
SAR is expressed in units of Watts per kilogram (W/kg)

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

Where: σ is the conductivity of the tissue, ρ is the mass density of the tissue and E is the RMS electrical field strength.

7. System Description and Setup

The DASY 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 DASY5 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.

<ES3DV3 Probe>

| | | |
|----------------------|--|--|
| Construction | Symmetric design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |  |
| Frequency | 10 MHz – 4 GHz; Linearity: ± 0.2 dB (30 MHz – 4 GHz) | |
| Directivity | ± 0.2 dB in TSL (rotation around probe axis) ± 0.3 dB in TSL (rotation normal to probe axis) | |
| Dynamic Range | 5 μ W/g – >100 mW/g; Linearity: ± 0.2 dB | |
| Dimensions | Overall length: 337 mm (tip: 20 mm) Tip diameter: 3.9 mm (body: 12 mm) Distance from probe tip to dipole centers: 3.0 mm | |

<EX3DV4 Probe>

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



Fig 5.1 Photo of DAE


7.3 Phantom

<SAM Twin Phantom>

| | | |
|--------------------------|---|--|
| Shell Thickness | 2 ± 0.2 mm; Center ear point: 6 ± 0.2 mm |  |
| Filling Volume | Approx. 25 liters | |
| Dimensions | Length: 1000 mm; Width: 500 mm; Height: adjustable feet | |
| Measurement Areas | 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>

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

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 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 dB0 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.

| | ≤ 3 GHz | > 3 GHz |
|--|---|--|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | 5 ± 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° ± 1° | 20° ± 1° |
| Maximum area scan spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$ | ≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm | 3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 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 ≤ 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 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 shoes 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.

| | | ≤ 3 GHz | > 3 GHz | |
|--|------------------------------------|--|---|--|
| Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$ | | ≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm* | 3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm* | |
| Maximum zoom scan spatial resolution, normal to phantom surface | uniform grid: $\Delta z_{Zoom}(n)$ | ≤ 5 mm | 3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm | |
| | graded grid | $\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface | ≤ 4 mm | 3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm |
| | | $\Delta z_{Zoom}(n>1)$: between subsequent points | $\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$ | |
| Minimum zoom scan volume | x, y, z | ≥ 30 mm | 3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm | |
| Note: δ 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 <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 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 for 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 | 1107 | Mar. 08, 2019 | Mar. 06, 2021 |
| SPEAG | 835MHz System Validation Kit | D835V2 | 4d167 | Nov. 25, 2019 | Nov. 24, 2020 |
| SPEAG | 1750MHz System Validation Kit | D1750V2 | 1112 | Mar. 07, 2019 | Mar. 05, 2021 |
| SPEAG | 1900MHz System Validation Kit | D1900V2 | 5d185 | Mar. 07, 2019 | Mar. 05, 2021 |
| SPEAG | 2300MHz System Validation Kit | D2300V2 | 1006 | Jan. 28, 2019 | Jan. 26, 2021 |
| SPEAG | 2450MHz System Validation Kit | D2450V2 | 736 | Aug. 31, 2018 | Aug. 29, 2020 |
| SPEAG | 2600MHz System Validation Kit | D2600V2 | 1008 | Aug. 31, 2018 | Aug. 29, 2020 |
| SPEAG | 3500MHz System Validation Kit | D3500V2 | 1014 | Jan. 29, 2019 | Jan. 27, 2021 |
| SPEAG | 3700MHz System Validation Kit | D3700V2 | 1006 | Mar. 05, 2019 | Mar. 03, 2021 |
| SPEAG | 5GHz System Validation Kit | D5GHzV2 | 1006 | Sep. 27, 2018 | Sep. 25, 2020 |
| SPEAG | 5GHz System Validation Kit | D5GHzV2 | 1128 | Dec. 16, 2019 | Dec. 15, 2020 |
| SPEAG | Data Acquisition Electronics | DAE3 | 495 | May. 21, 2019 | May. 20, 2020 |
| SPEAG | Data Acquisition Electronics | DAE3 | 577 | Sep. 17, 2019 | Sep. 16, 2020 |
| SPEAG | Data Acquisition Electronics | DAE4 | 778 | May. 21, 2019 | May. 20, 2020 |
| SPEAG | Dosimetric E-Field Probe | EX3DV4 | 3728 | Feb. 04, 2020 | Feb. 03, 2021 |
| SPEAG | Dosimetric E-Field Probe | EX3DV4 | 3925 | Sep. 20, 2019 | Sep. 19, 2020 |
| SPEAG | Dosimetric E-Field Probe | EX3DV4 | 7306 | Jul. 22, 2019 | Jul. 21, 2020 |
| RCPTWN | Thermometer | HTC-1 | TM685-1 | Nov. 12, 2019 | Nov. 11, 2020 |
| RCPTWN | Thermometer | HTC-1 | TM560-2 | Nov. 12, 2019 | Nov. 11, 2020 |
| Anritsu | Radio Communication Analyzer | MT8821C | 6201341950 | Oct. 31, 2019 | Oct. 30, 2020 |
| Agilent | Wireless Communication Test Set | E5515C | MY50267236 | Apr. 01, 2019 | Mar. 31, 2020 |
| R&S | BT Base Station | CBT32 | 100522 | Mar. 18, 2019 | Mar. 17, 2020 |
| SPEAG | Device Holder | N/A | N/A | N/A | N/A |
| Anritsu | Signal Generator | MG3710A | 6201502524 | Nov. 20, 2019 | Nov. 19, 2020 |
| Agilent | ENA Network Analyzer | E5071C | MY46104758 | Sep. 06, 2019 | Sep. 05, 2020 |
| SPEAG | Dielectric Probe Kit | DAK-3.5 | 1126 | Sep. 18, 2019 | Sep. 17, 2020 |
| LINE SEIKI | Digital Thermometer | DTM3000-spezial | 3169 | Sep. 10, 2019 | Sep. 09, 2020 |
| Anritsu | Power Meter | ML2495A | 1036004 | Aug. 08, 2019 | Aug. 07, 2020 |
| Anritsu | Power Sensor | MA2411B | 1027253 | Aug. 08, 2019 | Aug. 07, 2020 |
| Anritsu | Power Meter | ML2495A | 1419002 | May. 29, 2019 | May. 28, 2020 |
| Anritsu | Power Sensor | MA2411B | 1339124 | May. 29, 2019 | May. 28, 2020 |
| Agilent | Spectrum Analyzer | E4408B | MY44211028 | Aug. 27, 2019 | Aug. 26, 2020 |
| Anritsu | Spectrum Analyzer | MS2830A | 6201396378 | Jun. 27, 2019 | Jun. 26, 2020 |
| Mini-Circuits | Power Amplifier | ZVE-8G+ | 6418 | Oct. 16, 2019 | Oct. 15, 2020 |
| Mini-Circuits | Power Amplifier | ZVE-8G+ | 6382 | Aug. 12, 2019 | Aug. 11, 2020 |
| ATM | Dual Directional Coupler | C122H-10 | P610410z-02 | Note 1 | |
| Woken | Attenuator 1 | WK0602-XX | N/A | Note 1 | |
| PE | Attenuator 2 | PE7005-10 | N/A | Note 1 | |
| PE | Attenuator 3 | PE7005-3 | N/A | Note 1 | |

General 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 source.
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 D750V3, SN: 1107, D1750V2, SN: 1112, D1900V2, SN: 5d185, D2300V2, SN: 1006, D2450V2, SN:736, D2600V2, SN: 1008, D3500V2, SN: 1014, D3700V2, SN: 1006, D5GHzV2, SN: 1006, 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. 10.1. 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. 10.2.



Fig 10.1 Photo of Liquid Height for Head SAR



Fig 10.2 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 (σ) | Permittivity (ε _r) |
|------------------|-----------|-----------|---------------|----------|---------------|----------|------------------|--------------------------------|
| 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 |
| 900 | 40.3 | 57.9 | 0.2 | 1.4 | 0.2 | 0 | 0.97 | 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) | Liquid Temp. (°C) | Conductivity (σ) | Permittivity (ε _r) | Conductivity Target (σ) | Permittivity Target (ε _r) | Delta (σ) (%) | Delta (ε _r) (%) | Limit (%) | Date |
|-----------------|-------------------|------------------|--------------------------------|-------------------------|---------------------------------------|---------------|-----------------------------|-----------|-----------|
| 750 | 22.4 | 0.887 | 42.938 | 0.89 | 41.90 | -0.34 | 2.48 | ±5 | 2020/2/20 |
| 750 | 22.4 | 0.891 | 43.276 | 0.89 | 41.90 | 0.11 | 3.28 | ±5 | 2020/2/21 |
| 750 | 22.3 | 0.899 | 43.706 | 0.89 | 41.90 | 1.01 | 4.31 | ±5 | 2020/2/26 |
| 750 | 22.5 | 0.898 | 41.246 | 0.89 | 41.90 | 0.90 | -1.56 | ±5 | 2020/3/13 |
| 835 | 22.4 | 0.869 | 42.487 | 0.90 | 41.50 | -3.44 | 2.38 | ±5 | 2020/2/19 |
| 835 | 22.5 | 0.897 | 42.276 | 0.90 | 41.50 | -0.33 | 1.87 | ±5 | 2020/2/23 |
| 835 | 22.3 | 0.934 | 43.410 | 0.90 | 41.50 | 3.78 | 4.60 | ±5 | 2020/2/26 |
| 835 | 22.5 | 0.894 | 42.284 | 0.90 | 41.50 | -0.67 | 1.89 | ±5 | 2020/3/13 |
| 1750 | 22.4 | 1.347 | 40.840 | 1.37 | 40.10 | -1.68 | 1.85 | ±5 | 2020/2/22 |
| 1750 | 22.5 | 1.361 | 40.492 | 1.37 | 40.10 | -0.66 | 0.98 | ±5 | 2020/2/25 |
| 1750 | 22.3 | 1.382 | 40.689 | 1.37 | 40.10 | 0.88 | 1.47 | ±5 | 2020/2/25 |
| 1750 | 22.8 | 1.383 | 41.198 | 1.37 | 40.10 | 0.95 | 2.74 | ±5 | 2020/2/28 |
| 1750 | 22.4 | 1.389 | 39.447 | 1.37 | 40.10 | 1.39 | -1.63 | ±5 | 2020/3/12 |
| 1750 | 22.5 | 1.377 | 39.646 | 1.37 | 40.10 | 0.51 | -1.13 | ±5 | 2020/3/13 |
| 1750 | 22.4 | 1.385 | 40.071 | 1.37 | 40.10 | 1.09 | -0.07 | ±5 | 2020/3/13 |
| 1900 | 22.4 | 1.446 | 38.895 | 1.40 | 40.00 | 3.29 | -2.76 | ±5 | 2020/2/20 |
| 1900 | 22.5 | 1.420 | 39.030 | 1.40 | 40.00 | 1.43 | -2.43 | ±5 | 2020/2/25 |
| 1900 | 22.8 | 1.427 | 40.812 | 1.40 | 40.00 | 1.93 | 2.03 | ±5 | 2020/2/28 |
| 1900 | 22.4 | 1.402 | 40.779 | 1.40 | 40.00 | 0.14 | 1.95 | ±5 | 2020/3/12 |
| 1900 | 22.4 | 1.453 | 41.053 | 1.40 | 40.00 | 3.79 | 2.63 | ±5 | 2020/3/13 |
| 1900 | 22.5 | 1.414 | 40.714 | 1.40 | 40.00 | 1.00 | 1.79 | ±5 | 2020/3/15 |
| 2300 | 22.4 | 1.696 | 39.932 | 1.67 | 39.50 | 1.56 | 1.09 | ±5 | 2020/2/21 |
| 2300 | 22.5 | 1.653 | 39.263 | 1.67 | 39.50 | -1.02 | -0.60 | ±5 | 2020/3/3 |
| 2300 | 22.5 | 1.660 | 40.165 | 1.67 | 39.50 | -0.60 | 1.68 | ±5 | 2020/3/13 |
| 2450 | 22.5 | 1.793 | 38.961 | 1.80 | 39.20 | -0.39 | -0.61 | ±5 | 2020/2/21 |
| 2600 | 22.4 | 1.986 | 39.358 | 1.96 | 39.00 | 1.33 | 0.92 | ±5 | 2020/2/19 |
| 2600 | 22.4 | 1.982 | 38.418 | 1.96 | 39.00 | 1.12 | -1.49 | ±5 | 2020/2/22 |
| 2600 | 22.3 | 1.986 | 38.153 | 1.96 | 39.00 | 1.33 | -2.17 | ±5 | 2020/2/26 |
| 2600 | 22.5 | 1.965 | 38.147 | 1.96 | 39.00 | 0.26 | -2.19 | ±5 | 2020/3/3 |
| 2600 | 22.5 | 1.964 | 39.381 | 1.96 | 39.00 | 0.20 | 0.98 | ±5 | 2020/3/13 |
| 2600 | 22.6 | 2.014 | 37.954 | 1.96 | 39.00 | 2.76 | -2.68 | ±5 | 2020/3/14 |
| 3500 | 22.4 | 2.951 | 39.103 | 2.91 | 37.90 | 1.41 | 3.17 | ±5 | 2020/3/14 |
| 3700 | 22.4 | 3.111 | 38.864 | 3.12 | 37.70 | -0.29 | 3.09 | ±5 | 2020/3/14 |
| 5250 | 22.6 | 4.645 | 35.925 | 4.71 | 35.95 | -1.38 | -0.07 | ±5 | 2020/2/23 |
| 5250 | 22.5 | 4.572 | 36.816 | 4.71 | 35.95 | -2.93 | 2.41 | ±5 | 2020/2/24 |
| 5250 | 22.8 | 4.674 | 35.972 | 4.71 | 35.95 | -0.76 | 0.06 | ±5 | 2020/2/25 |
| 5600 | 22.6 | 4.988 | 35.414 | 5.07 | 35.50 | -1.62 | -0.24 | ±5 | 2020/2/23 |
| 5600 | 22.5 | 4.975 | 36.482 | 5.07 | 35.50 | -1.87 | 2.77 | ±5 | 2020/2/24 |
| 5600 | 22.8 | 5.014 | 35.497 | 5.07 | 35.50 | -1.10 | -0.01 | ±5 | 2020/2/25 |
| 5750 | 22.5 | 5.126 | 35.932 | 5.22 | 35.35 | -1.80 | 1.65 | ±5 | 2020/2/24 |
| 5750 | 22.8 | 5.171 | 35.291 | 5.22 | 35.35 | -0.94 | -0.17 | ±5 | 2020/2/25 |



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.

| Date | Frequency (MHz) | 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 (%) |
|-----------|-----------------|------------------|-------------------|-----------------|------------|------------------------|------------------------|--------------------------|---------------|
| 2020/2/20 | 750 | 250 | D750V3-1107 | EX3DV4 - SN3925 | DAE4 Sn778 | 2.05 | 8.32 | 8.2 | -1.44 |
| 2020/2/21 | 750 | 250 | D750V3-1107 | EX3DV4 - SN3925 | DAE4 Sn778 | 2.06 | 8.32 | 8.24 | -0.96 |
| 2020/2/26 | 750 | 250 | D750V3-1107 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.12 | 8.32 | 8.48 | 1.92 |
| 2020/3/13 | 750 | 250 | D750V3-1107 | EX3DV4 - SN7306 | DAE3 Sn577 | 2.21 | 8.32 | 8.84 | 6.25 |
| 2020/2/19 | 835 | 250 | D835V2-4d167 | EX3DV4 - SN3925 | DAE4 Sn778 | 2.29 | 9.55 | 9.16 | -4.08 |
| 2020/2/23 | 835 | 250 | D835V2-4d167 | EX3DV4 - SN3925 | DAE4 Sn778 | 2.36 | 9.55 | 9.44 | -1.15 |
| 2020/2/26 | 835 | 250 | D835V2-4d167 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.46 | 9.55 | 9.84 | 3.04 |
| 2020/3/13 | 835 | 250 | D835V2-4d167 | EX3DV4 - SN7306 | DAE3 Sn577 | 2.50 | 9.55 | 10 | 4.71 |
| 2020/2/22 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3925 | DAE4 Sn778 | 8.89 | 36.70 | 35.56 | -3.11 |
| 2020/2/25 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3925 | DAE4 Sn778 | 8.99 | 36.70 | 35.96 | -2.02 |
| 2020/2/25 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3728 | DAE3 Sn495 | 8.71 | 36.70 | 34.84 | -5.07 |
| 2020/2/28 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3925 | DAE4 Sn778 | 9.40 | 36.70 | 37.6 | 2.45 |
| 2020/3/12 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3728 | DAE3 Sn495 | 8.90 | 36.70 | 35.6 | -3.00 |
| 2020/3/13 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN7306 | DAE3 Sn577 | 9.04 | 36.70 | 36.16 | -1.47 |
| 2020/3/13 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3925 | DAE4 Sn778 | 9.15 | 36.70 | 36.6 | -0.27 |
| 2020/2/20 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 9.84 | 39.40 | 39.36 | -0.10 |
| 2020/2/25 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 9.67 | 39.40 | 38.68 | -1.83 |
| 2020/2/28 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 9.57 | 39.40 | 38.28 | -2.84 |
| 2020/3/12 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3728 | DAE3 Sn495 | 10.30 | 39.40 | 41.2 | 4.57 |
| 2020/3/13 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 9.89 | 39.40 | 39.56 | 0.41 |
| 2020/3/15 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 9.64 | 39.40 | 38.56 | -2.13 |
| 2020/2/21 | 2300 | 250 | D2300V2-1006 | EX3DV4 - SN3925 | DAE4 Sn778 | 12.50 | 48.70 | 50 | 2.67 |
| 2020/3/3 | 2300 | 250 | D2300V2-1006 | EX3DV4 - SN3925 | DAE4 Sn778 | 12.20 | 48.70 | 48.8 | 0.21 |
| 2020/3/13 | 2300 | 250 | D2300V2-1006 | EX3DV4 - SN3925 | DAE4 Sn778 | 12.50 | 48.70 | 50 | 2.67 |
| 2020/2/21 | 2450 | 250 | D2450V2-736 | EX3DV4 - SN3728 | DAE3 Sn495 | 12.70 | 52.70 | 50.8 | -3.61 |
| 2020/2/19 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3925 | DAE4 Sn778 | 14.80 | 56.40 | 59.2 | 4.96 |
| 2020/2/22 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3925 | DAE4 Sn778 | 14.80 | 56.40 | 59.2 | 4.96 |
| 2020/2/26 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3728 | DAE3 Sn495 | 15.00 | 56.40 | 60 | 6.38 |
| 2020/3/3 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3925 | DAE4 Sn778 | 14.70 | 56.40 | 58.8 | 4.26 |
| 2020/3/13 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3925 | DAE4 Sn778 | 14.70 | 56.40 | 58.8 | 4.26 |
| 2020/3/14 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3728 | DAE3 Sn495 | 15.00 | 56.40 | 60 | 6.38 |
| 2020/3/14 | 3500 | 100 | D3500V2-1014 | EX3DV4 - SN3925 | DAE4 Sn778 | 6.55 | 67.90 | 65.5 | -3.53 |
| 2020/3/14 | 3700 | 100 | D3700V2-1006 | EX3DV4 - SN3925 | DAE4 Sn778 | 6.82 | 67.30 | 68.2 | 1.34 |
| 2020/2/23 | 5250 | 100 | D5GHzV2-1006-5250 | EX3DV4 - SN3728 | DAE3 Sn495 | 7.43 | 80.70 | 74.3 | -7.93 |
| 2020/2/24 | 5250 | 100 | D5GHzV2-1128-5250 | EX3DV4 - SN3728 | DAE3 Sn495 | 7.32 | 80.00 | 73.2 | -8.50 |
| 2020/2/25 | 5250 | 100 | D5GHzV2-1006-5250 | EX3DV4 - SN3728 | DAE3 Sn495 | 7.56 | 80.70 | 75.6 | -6.32 |
| 2020/2/23 | 5600 | 100 | D5GHzV2-1006-5600 | EX3DV4 - SN3728 | DAE3 Sn495 | 8.48 | 83.30 | 84.8 | 1.80 |
| 2020/2/24 | 5600 | 100 | D5GHzV2-1128-5600 | EX3DV4 - SN3728 | DAE3 Sn495 | 7.75 | 82.40 | 77.5 | -5.95 |
| 2020/2/25 | 5600 | 100 | D5GHzV2-1006-5600 | EX3DV4 - SN3728 | DAE3 Sn495 | 7.81 | 83.30 | 78.1 | -6.24 |
| 2020/2/24 | 5750 | 100 | D5GHzV2-1128-5750 | EX3DV4 - SN3728 | DAE3 Sn495 | 7.24 | 79.10 | 72.4 | -8.47 |
| 2020/2/25 | 5750 | 100 | D5GHzV2-1006-5750 | EX3DV4 - SN3728 | DAE3 Sn495 | 7.83 | 80.40 | 78.3 | -2.61 |

| Date | Frequency (MHz) | 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 (%) |
|-----------|-----------------|------------------|-------------------|-----------------|------------|-------------------------|-------------------------|---------------------------|---------------|
| 2020/2/20 | 750 | 250 | D750V3-1107 | EX3DV4 - SN3925 | DAE4 Sn778 | 1.38 | 5.61 | 5.52 | -1.60 |
| 2020/2/21 | 750 | 250 | D750V3-1107 | EX3DV4 - SN3925 | DAE4 Sn778 | 1.38 | 5.61 | 5.52 | -1.60 |
| 2020/2/26 | 750 | 250 | D750V3-1107 | EX3DV4 - SN3728 | DAE3 Sn495 | 1.36 | 5.61 | 5.44 | -3.03 |
| 2020/3/13 | 750 | 250 | D750V3-1107 | EX3DV4 - SN7306 | DAE3 Sn577 | 1.49 | 5.61 | 5.96 | 6.24 |
| 2020/2/19 | 835 | 250 | D835V2-4d167 | EX3DV4 - SN3925 | DAE4 Sn778 | 1.52 | 6.21 | 6.08 | -2.09 |
| 2020/2/23 | 835 | 250 | D835V2-4d167 | EX3DV4 - SN3925 | DAE4 Sn778 | 1.57 | 6.21 | 6.28 | 1.13 |
| 2020/2/26 | 835 | 250 | D835V2-4d167 | EX3DV4 - SN3728 | DAE3 Sn495 | 1.56 | 6.21 | 6.24 | 0.48 |
| 2020/3/13 | 835 | 250 | D835V2-4d167 | EX3DV4 - SN7306 | DAE3 Sn577 | 1.64 | 6.21 | 6.56 | 5.64 |
| 2020/2/22 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3925 | DAE4 Sn778 | 4.64 | 19.40 | 18.56 | -4.33 |
| 2020/2/25 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3925 | DAE4 Sn778 | 4.69 | 19.40 | 18.76 | -3.30 |
| 2020/2/25 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3728 | DAE3 Sn495 | 4.62 | 19.40 | 18.48 | -4.74 |
| 2020/2/28 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3925 | DAE4 Sn778 | 5.12 | 19.40 | 20.48 | 5.57 |
| 2020/3/12 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3728 | DAE3 Sn495 | 4.69 | 19.40 | 18.76 | -3.30 |
| 2020/3/13 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN7306 | DAE3 Sn577 | 4.65 | 19.40 | 18.6 | -4.12 |
| 2020/3/13 | 1750 | 250 | D1750V2-1112 | EX3DV4 - SN3925 | DAE4 Sn778 | 4.77 | 19.40 | 19.08 | -1.65 |
| 2020/2/20 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 5.09 | 20.50 | 20.36 | -0.68 |
| 2020/2/25 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 5.00 | 20.50 | 20 | -2.44 |
| 2020/2/28 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 4.97 | 20.50 | 19.88 | -3.02 |
| 2020/3/12 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3728 | DAE3 Sn495 | 5.28 | 20.50 | 21.12 | 3.02 |
| 2020/3/13 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 5.12 | 20.50 | 20.48 | -0.10 |
| 2020/3/15 | 1900 | 250 | D1900V2-5d185 | EX3DV4 - SN3925 | DAE4 Sn778 | 5.00 | 20.50 | 20 | -2.44 |
| 2020/2/21 | 2300 | 250 | D2300V2-1006 | EX3DV4 - SN3925 | DAE4 Sn778 | 6.02 | 23.20 | 24.08 | 3.79 |
| 2020/3/3 | 2300 | 250 | D2300V2-1006 | EX3DV4 - SN3925 | DAE4 Sn778 | 5.87 | 23.20 | 23.48 | 1.21 |
| 2020/3/13 | 2300 | 250 | D2300V2-1006 | EX3DV4 - SN3925 | DAE4 Sn778 | 6.03 | 23.20 | 24.12 | 3.97 |
| 2020/2/21 | 2450 | 250 | D2450V2-736 | EX3DV4 - SN3728 | DAE3 Sn495 | 5.89 | 24.60 | 23.56 | -4.23 |
| 2020/2/19 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3925 | DAE4 Sn778 | 6.62 | 25.30 | 26.48 | 4.66 |
| 2020/2/22 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3925 | DAE4 Sn778 | 6.60 | 25.30 | 26.4 | 4.35 |
| 2020/2/26 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3728 | DAE3 Sn495 | 6.57 | 25.30 | 26.28 | 3.87 |
| 2020/3/3 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3925 | DAE4 Sn778 | 6.55 | 25.30 | 26.2 | 3.56 |
| 2020/3/13 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3925 | DAE4 Sn778 | 6.57 | 25.30 | 26.28 | 3.87 |
| 2020/3/14 | 2600 | 250 | D2600V2-1008 | EX3DV4 - SN3728 | DAE3 Sn495 | 6.61 | 25.30 | 26.44 | 4.51 |
| 2020/3/14 | 3500 | 100 | D3500V2-1014 | EX3DV4 - SN3925 | DAE4 Sn778 | 2.45 | 25.60 | 24.5 | -4.30 |
| 2020/3/14 | 3700 | 100 | D3700V2-1006 | EX3DV4 - SN3925 | DAE4 Sn778 | 2.46 | 24.50 | 24.6 | 0.41 |
| 2020/2/23 | 5250 | 100 | D5GHzV2-1006-5250 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.12 | 23.20 | 21.2 | -8.62 |
| 2020/2/24 | 5250 | 100 | D5GHzV2-1128-5250 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.08 | 22.90 | 20.8 | -9.17 |
| 2020/2/25 | 5250 | 100 | D5GHzV2-1006-5250 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.24 | 23.20 | 22.4 | -3.45 |
| 2020/2/23 | 5600 | 100 | D5GHzV2-1006-5600 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.35 | 23.80 | 23.5 | -1.26 |
| 2020/2/24 | 5600 | 100 | D5GHzV2-1128-5600 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.13 | 23.60 | 21.3 | -9.75 |
| 2020/2/25 | 5600 | 100 | D5GHzV2-1006-5600 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.25 | 23.80 | 22.5 | -5.46 |
| 2020/2/24 | 5750 | 100 | D5GHzV2-1128-5750 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.07 | 22.60 | 20.7 | -8.41 |
| 2020/2/25 | 5750 | 100 | D5GHzV2-1006-5750 | EX3DV4 - SN3728 | DAE3 Sn495 | 2.21 | 22.90 | 22.1 | -3.49 |

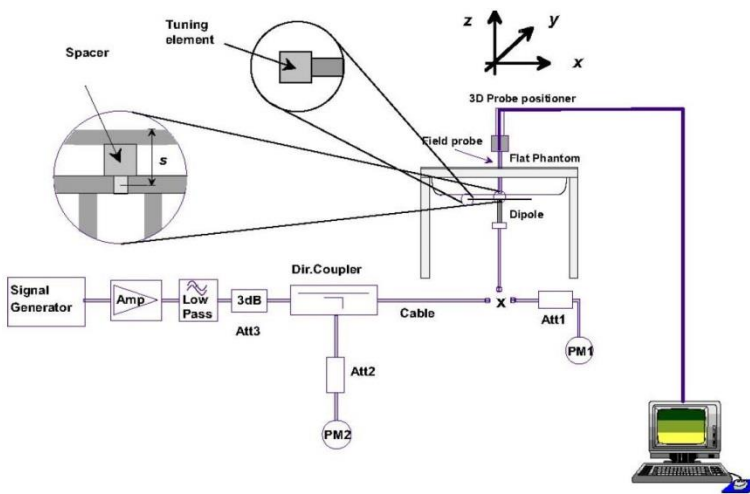


Fig 8.3.1 System Performance Check Setup



Fig 8.3.2 Setup Photo

11. RF Exposure Positions

11.1 Ear and handset reference point

Figure 9.1.1 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 9.1.2 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 9.1.3). 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 9.1.2. The ear truncation is introduced to preclude the ear lobe from interfering with handset tilt, which could lead to unstable positioning at the cheek.

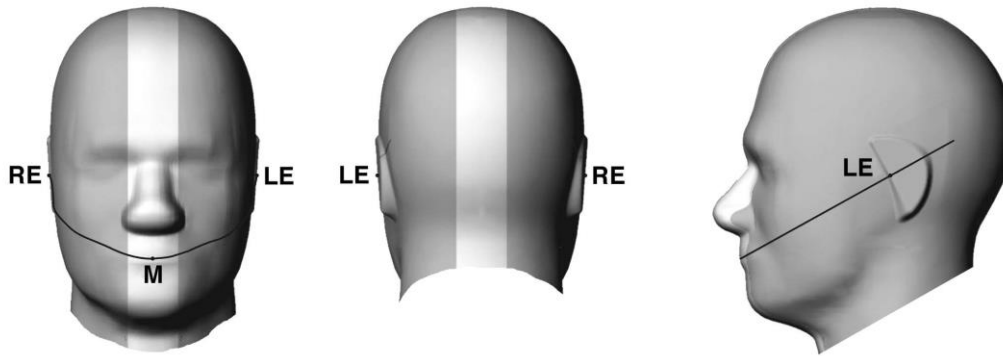


Fig 9.1.1 Front, back, and side views of SAM twin phantom



Fig 9.1.2 Close-up side view of phantom showing the ear region.

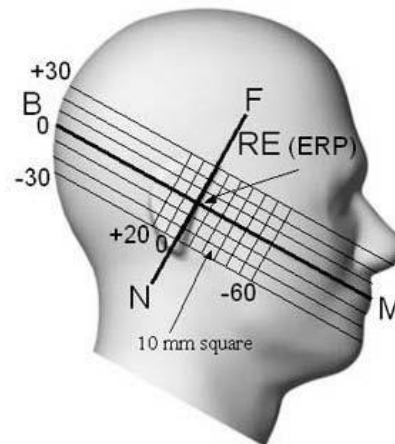


Fig 9.1.3 Side view of the phantom showing relevant markings and seven cross-sectional plane locations

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 9.2.1 and Figure 9.2.2), 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 9.2.1). 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 9.2.2), 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 9.2.3), 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 9.2.3. The actual rotation angles should be documented in the test report.



Fig 9.2.1 Handset vertical and horizontal reference lines—“fixed case”

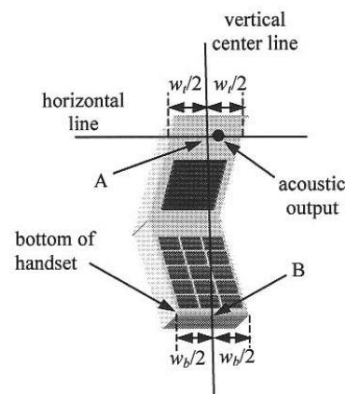


Fig 9.2.2 Handset vertical and horizontal reference lines—“clam-shell case”

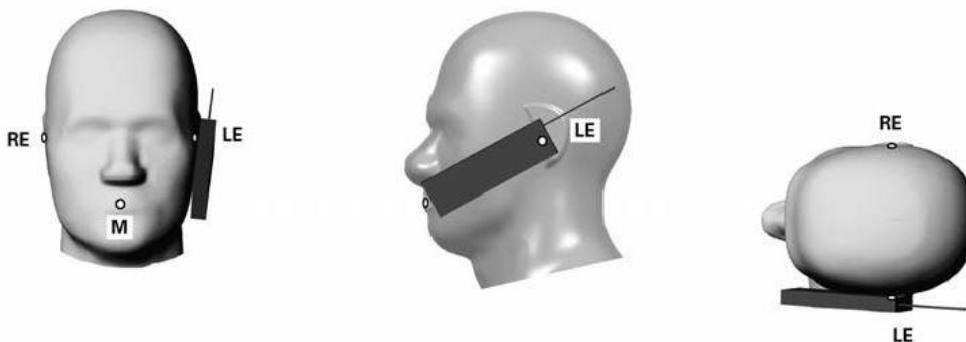


Fig 9.2.3 cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

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 9.3.1. 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

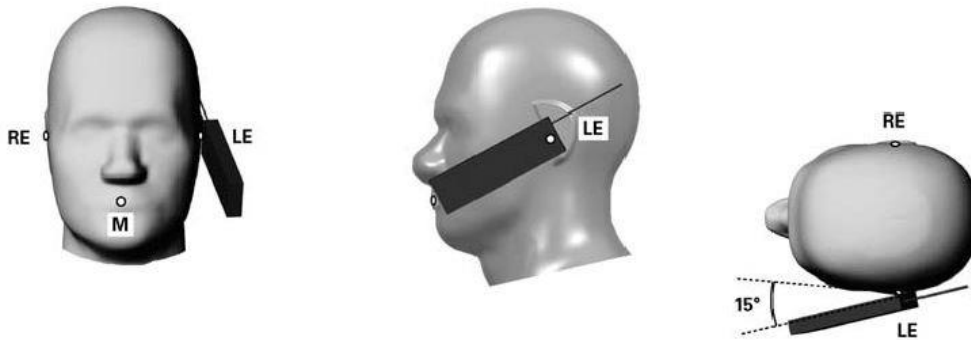


Fig 9.3.1 Tilt position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which define the Reference Plane for handset positioning, are indicated.

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 9.4). 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 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a handset 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-chip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

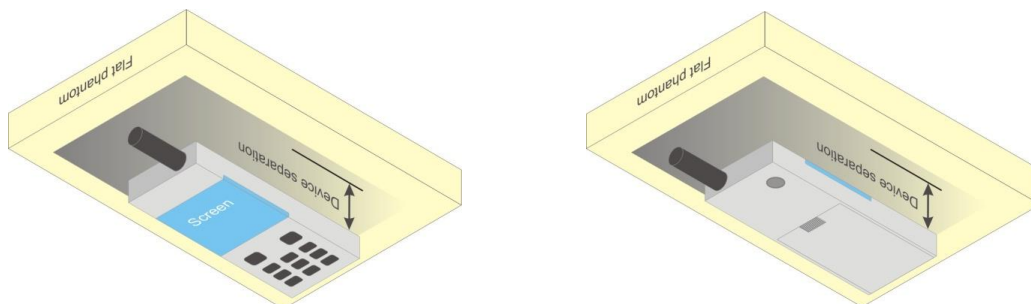


Fig 9.4 Body Worn Position



11.5 Extremity Exposure

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that 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 ≤ 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.6 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 x W ≥ 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. GSM/UMTS/CDMA/LTE Output Power (Unit: dBm)

<GSM Conducted Power>

1. Per KDB 447498 D01v06, 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.
4. The GPRS (3Tx slots) for GSM850 and GPRS (2Tx slots) for GSM1900 for GSM850/GSM1900 head and product specific SAR is considered as the primary mode.
5. The GPRS (3Tx slots) for GSM850 and GPRS (4Tx slots) for GSM1900 for GSM850/GSM1900 hotspot SAR is considered as the primary mode.
6. The GPRS (3Tx slots) for GSM850 and GPRS (2Tx slots) for GSM1900 for GSM850/GSM1900 body-worn SAR is considered as the primary mode.

<Default Power Mode>

| GSM850 TX Channel | Burst Average Power (dBm) | | | Tune-up Limit (dBm) | Frame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|----------------------|---------------------------|-------|-------|---------------------------|---------------------------|-------|-------|---------------------------|
| | 128 | 189 | 251 | | 128 | 189 | 251 | |
| Frequency (MHz) | 824.2 | 836.4 | 848.8 | | 824.2 | 836.4 | 848.8 | |
| GSM 1 Tx slot | 32.25 | 32.23 | 32.24 | 33.50 | 23.25 | 23.23 | 23.24 | 24.50 |
| GPRS 1 Tx slot | 32.39 | 32.40 | 32.29 | 33.50 | 23.39 | 23.40 | 23.29 | 24.50 |
| GPRS 2 Tx slots | 31.73 | 31.33 | 30.94 | 32.00 | 25.73 | 25.33 | 24.94 | 26.00 |
| GPRS 3 Tx slots | 30.23 | 29.56 | 28.94 | 30.50 | 25.97 | 25.30 | 24.68 | 26.24 |
| GPRS 4 Tx slots | 28.56 | 27.73 | 27.03 | 29.00 | 25.56 | 24.73 | 24.03 | 26.00 |
| EDGE 1 Tx slot | 26.40 | 26.44 | 26.49 | 27.50 | 17.40 | 17.44 | 17.49 | 18.50 |
| EDGE 2 Tx slots | 25.59 | 25.57 | 25.64 | 26.50 | 19.59 | 19.57 | 19.64 | 20.50 |
| EDGE 3 Tx slots | 23.92 | 23.90 | 24.01 | 25.00 | 19.66 | 19.64 | 19.75 | 20.74 |
| EDGE 4 Tx slots | 22.39 | 22.31 | 22.38 | 23.50 | 19.39 | 19.31 | 19.38 | 20.50 |

| GSM1900 TX Channel | Burst Average Power (dBm) | | | Tune-up Limit (dBm) | Frame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| | 512 | 661 | 810 | | 512 | 661 | 810 | |
| Frequency (MHz) | 1850.2 | 1880 | 1909.8 | | 1850.2 | 1880 | 1909.8 | |
| GSM 1 Tx slot | 29.99 | 30.01 | 30.02 | 30.50 | 20.99 | 21.01 | 21.02 | 21.50 |
| GPRS 1 Tx slot | 29.89 | 30.02 | 29.61 | 30.50 | 20.89 | 21.02 | 20.61 | 21.50 |
| GPRS 2 Tx slots | 28.78 | 28.81 | 28.72 | 30.50 | 22.78 | 22.81 | 22.72 | 24.50 |
| GPRS 3 Tx slots | 27.02 | 27.08 | 27.05 | 28.50 | 27.00 | 22.82 | 22.79 | 24.24 |
| GPRS 4 Tx slots | 25.43 | 25.47 | 25.53 | 27.00 | 22.43 | 22.47 | 22.53 | 24.00 |
| EDGE 1 Tx slot | 25.53 | 25.50 | 25.70 | 26.00 | 16.53 | 16.50 | 16.70 | 17.00 |
| EDGE 2 Tx slots | 24.69 | 24.70 | 24.82 | 25.50 | 18.69 | 18.70 | 18.82 | 19.50 |
| EDGE 3 Tx slots | 23.01 | 23.11 | 23.21 | 24.50 | 18.75 | 18.85 | 18.95 | 20.24 |
| EDGE 4 Tx slots | 21.51 | 21.52 | 21.70 | 23.50 | 18.51 | 18.52 | 18.70 | 20.50 |



<Reduced Power on Hotspot / Body-worn Mode>

| GSM1900 TX Channel | Burst Average Power (dBm) | | | Tune-up Limit (dBm) | Frame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| | 512 | 661 | 810 | | 512 | 661 | 810 | |
| Frequency (MHz) | 1850.2 | 1880 | 1909.8 | | 1850.2 | 1880 | 1909.8 | |
| GSM 1 Tx slot | 24.25 | 24.42 | 24.48 | 24.50 | 15.25 | 15.42 | 15.48 | 15.50 |
| GPRS 1 Tx slot | 24.41 | 24.48 | 24.49 | 24.50 | 15.41 | 15.48 | 15.49 | 15.50 |
| GPRS 2 Tx slots | 22.82 | 22.97 | 22.98 | 23.00 | 16.82 | 16.97 | 16.98 | 17.00 |
| GPRS 3 Tx slots | 20.96 | 20.98 | 20.98 | 21.00 | 14.96 | 16.72 | 16.72 | 16.74 |
| GPRS 4 Tx slots | 19.82 | 19.97 | 19.98 | 20.00 | 16.82 | 16.97 | 16.98 | 17.00 |
| EDGE 1 Tx slot | 24.48 | 24.40 | 24.44 | 24.50 | 15.48 | 15.40 | 15.44 | 15.50 |
| EDGE 2 Tx slots | 22.91 | 22.87 | 22.90 | 23.00 | 16.91 | 16.87 | 16.90 | 17.00 |
| EDGE 3 Tx slots | 20.86 | 20.91 | 20.91 | 21.00 | 16.60 | 16.65 | 16.65 | 16.74 |
| EDGE 4 Tx slots | 19.54 | 19.69 | 19.91 | 20.00 | 16.54 | 16.69 | 16.91 | 17.00 |

<Reduced Power on Product Specific Mode>

| GSM1900 TX Channel | Burst Average Power (dBm) | | | Tune-up Limit (dBm) | Frame-Average Power (dBm) | | | Tune-up Limit (dBm) |
|-----------------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| | 512 | 661 | 810 | | 512 | 661 | 810 | |
| Frequency (MHz) | 1850.2 | 1880 | 1909.8 | | 1850.2 | 1880 | 1909.8 | |
| GSM 1 Tx slot | 29.40 | 29.55 | 29.47 | 30.50 | 20.40 | 20.55 | 20.47 | 21.50 |
| GPRS 1 Tx slot | 29.43 | 29.58 | 29.50 | 30.00 | 20.43 | 20.58 | 20.50 | 21.00 |
| GPRS 2 Tx slots | 27.97 | 28.23 | 28.18 | 28.90 | 21.97 | 29.17 | 22.18 | 22.90 |
| GPRS 3 Tx slots | 26.12 | 26.27 | 26.28 | 26.50 | 20.12 | 22.01 | 22.02 | 22.24 |
| GPRS 4 Tx slots | 24.41 | 24.52 | 24.60 | 25.00 | 21.41 | 21.52 | 21.60 | 22.00 |
| EDGE 1 Tx slot | 24.83 | 24.81 | 24.88 | 25.00 | 15.83 | 15.81 | 15.88 | 16.00 |
| EDGE 2 Tx slots | 24.28 | 24.24 | 24.37 | 24.50 | 18.28 | 18.24 | 18.37 | 18.50 |
| EDGE 3 Tx slots | 22.69 | 22.64 | 22.75 | 23.00 | 18.43 | 18.38 | 18.49 | 18.74 |
| EDGE 4 Tx slots | 20.91 | 20.85 | 20.96 | 21.00 | 17.91 | 17.85 | 17.96 | 18.00 |

<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 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 (β_c and β_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: β values for transmitter characteristics tests with HS-DPCCH

| Sub-test | β_c | β_d | β_d (SF) | β_c/β_d | β_{HS} (Note 1, Note 2) | CM (dB) (Note 3) | MPR (dB) (Note 3) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|----------------------|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 | 0.0 |
| 2 | 12/15 (Note 4) | 15/15 (Note 4) | 64 | 12/15 (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, Δ_{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, DPDCCH 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 β_c/β_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 (β_c and β_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-TFCl
 - viii. Confirm that E-TFCl is equal to the target E-TFCl of 75 for sub-test 1, and other subtest's E-TFCl
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

| Sub-test | β_c | β_d | β_d (SF) | β_c/β_d | β_{HS} (Note1) | β_{ec} | β_{ed} (Note 4) (Note 5) | β_{ed} (SF) | β_{ed} (Codes) | CM (dB) (Note 2) | MPR (dB) (Note 2) (Note 6) | AG Index (Note 5) | E-TFCl |
|----------|----------------|----------------|----------------|-------------------|----------------------|--------------|--|-------------------|----------------------|------------------|----------------------------|-------------------|--------|
| 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 | $\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$ | 4 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, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$. For sub-test 5, Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 5/15$ 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 β_c/β_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, TF1) 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: β_{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 Agilent E5515C 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 (β_c and β_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. | | |

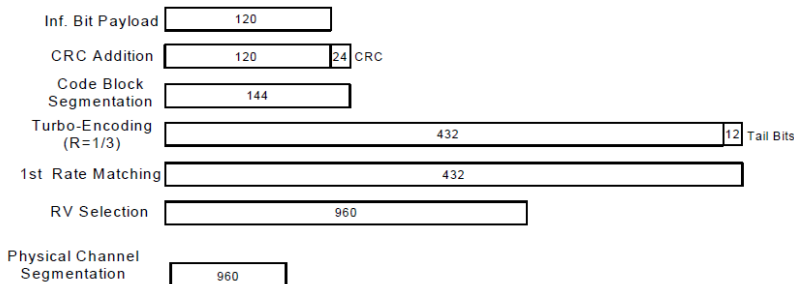


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

Setup Configuration



<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 is ≤ ¼ 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 to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than ¼ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

<Default Power Mode>

| Band | | WCDMA II | | | Tune-up Limit (dBm) | WCDMA IV | | | Tune-up Limit (dBm) | WCDMA V | | | Tune-up Limit (dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|--------|-------|---------------------|---------|-------|-------|---------------------|
| TX Channel | | 9262 | 9400 | 9538 | | 1312 | 1413 | 1513 | | 4132 | 4182 | 4233 | |
| Rx Channel | | 9662 | 9800 | 9938 | | 1537 | 1638 | 1738 | | 4357 | 4407 | 4458 | |
| Frequency (MHz) | | 1852.4 | 1880 | 1907.6 | 1712.4 | 1732.6 | 1752.6 | 826.4 | 836.4 | 846.6 | | | |
| 3GPP Rel 99 | AMR 12.2Kbps | 23.11 | 23.20 | 23.15 | 24.00 | 23.21 | 23.22 | 23.31 | 24.00 | 23.15 | 23.16 | 23.31 | 24.00 |
| 3GPP Rel 99 | RMC 12.2Kbps | 23.12 | 23.22 | 23.21 | 24.00 | 23.31 | 23.44 | 23.32 | 24.00 | 23.21 | 23.22 | 23.35 | 24.00 |
| 3GPP Rel 6 | HSDPA Subtest-1 | 21.90 | 21.75 | 21.89 | 22.00 | 21.92 | 21.81 | 21.98 | 22.00 | 21.86 | 21.66 | 21.87 | 22.00 |
| 3GPP Rel 6 | HSDPA Subtest-2 | 22.00 | 21.77 | 21.61 | 22.00 | 21.97 | 21.85 | 21.95 | 22.00 | 21.85 | 21.69 | 21.93 | 22.00 |
| 3GPP Rel 6 | HSDPA Subtest-3 | 21.40 | 21.36 | 21.44 | 21.50 | 21.46 | 21.28 | 21.49 | 21.50 | 21.35 | 21.20 | 21.38 | 21.50 |
| 3GPP Rel 6 | HSDPA Subtest-4 | 21.43 | 21.24 | 21.50 | 21.50 | 21.38 | 21.33 | 21.47 | 21.50 | 21.32 | 21.21 | 21.34 | 21.50 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 21.92 | 21.75 | 21.89 | 22.00 | 21.89 | 21.82 | 21.82 | 22.00 | 21.74 | 21.65 | 21.77 | 22.00 |
| 3GPP Rel 8 | DC-HSDPA Subtest-2 | 21.86 | 21.69 | 21.44 | 22.00 | 21.85 | 21.68 | 21.99 | 22.00 | 21.82 | 21.63 | 21.87 | 22.00 |
| 3GPP Rel 8 | DC-HSDPA Subtest-3 | 21.40 | 21.27 | 21.33 | 21.50 | 21.34 | 21.25 | 21.33 | 21.50 | 21.25 | 21.09 | 21.27 | 21.50 |
| 3GPP Rel 8 | DC-HSDPA Subtest-4 | 21.38 | 21.22 | 21.42 | 21.50 | 21.34 | 21.24 | 21.48 | 21.50 | 21.22 | 21.14 | 21.41 | 21.50 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 21.89 | 21.80 | 21.97 | 22.00 | 21.90 | 21.81 | 21.99 | 22.00 | 21.75 | 21.77 | 21.89 | 22.00 |
| 3GPP Rel 6 | HSUPA Subtest-2 | 19.85 | 19.74 | 19.95 | 20.00 | 19.87 | 19.80 | 19.98 | 20.00 | 19.80 | 19.71 | 19.85 | 20.00 |
| 3GPP Rel 6 | HSUPA Subtest-3 | 20.89 | 20.84 | 20.71 | 21.00 | 20.81 | 20.78 | 20.99 | 21.00 | 20.72 | 20.70 | 20.87 | 21.00 |
| 3GPP Rel 6 | HSUPA Subtest-4 | 19.96 | 19.77 | 19.65 | 20.00 | 19.91 | 19.78 | 19.95 | 20.00 | 19.81 | 19.75 | 19.84 | 20.00 |
| 3GPP Rel 6 | HSUPA Subtest-5 | 21.82 | 21.78 | 21.65 | 22.00 | 21.90 | 21.70 | 21.61 | 22.00 | 21.79 | 21.60 | 21.90 | 22.00 |

<Reduced Power on Hotspot / Body-worn Mode>

| Band | | WCDMA II | | | Tune-up Limit (dBm) | WCDMA IV | | | Tune-up Limit (dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|--------|-------|---------------------|
| TX Channel | | 9262 | 9400 | 9538 | | 1312 | 1413 | 1513 | |
| Rx Channel | | 9662 | 9800 | 9938 | | 1537 | 1638 | 1738 | |
| Frequency (MHz) | | 1852.4 | 1880 | 1907.6 | 1712.4 | 1732.6 | 1752.6 | | |
| 3GPP Rel 99 | AMR 12.2Kbps | 16.83 | 16.75 | 16.95 | 17.00 | 16.85 | 16.87 | 16.81 | 17.00 |
| 3GPP Rel 99 | RMC 12.2Kbps | 16.85 | 16.78 | 16.96 | 17.00 | 16.86 | 16.88 | 16.82 | 17.00 |
| 3GPP Rel 6 | HSDPA Subtest-1 | 16.35 | 16.28 | 16.48 | 17.00 | 16.35 | 16.38 | 16.34 | 17.00 |
| 3GPP Rel 6 | HSDPA Subtest-2 | 16.36 | 16.27 | 16.47 | 17.00 | 16.37 | 16.39 | 16.33 | 17.00 |
| 3GPP Rel 6 | HSDPA Subtest-3 | 15.85 | 15.76 | 15.97 | 16.50 | 15.89 | 15.90 | 15.82 | 16.50 |
| 3GPP Rel 6 | HSDPA Subtest-4 | 15.83 | 15.77 | 15.97 | 16.50 | 15.88 | 15.90 | 15.80 | 16.50 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 16.33 | 16.23 | 16.44 | 17.00 | 16.33 | 16.36 | 16.33 | 17.00 |
| 3GPP Rel 8 | DC-HSDPA Subtest-2 | 16.32 | 16.24 | 16.46 | 17.00 | 16.36 | 16.40 | 16.33 | 17.00 |
| 3GPP Rel 8 | DC-HSDPA Subtest-3 | 15.86 | 15.78 | 15.98 | 16.50 | 15.90 | 15.88 | 15.82 | 16.50 |
| 3GPP Rel 8 | DC-HSDPA Subtest-4 | 15.85 | 15.76 | 16.00 | 16.50 | 15.87 | 15.91 | 15.81 | 16.50 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 16.32 | 16.25 | 16.44 | 17.00 | 16.35 | 16.36 | 16.31 | 17.00 |
| 3GPP Rel 6 | HSUPA Subtest-2 | 14.35 | 14.27 | 14.46 | 15.00 | 14.35 | 14.37 | 14.32 | 15.00 |
| 3GPP Rel 6 | HSUPA Subtest-3 | 15.32 | 15.25 | 15.45 | 16.00 | 15.35 | 15.37 | 15.31 | 16.00 |
| 3GPP Rel 6 | HSUPA Subtest-4 | 14.34 | 14.28 | 14.45 | 15.00 | 14.36 | 14.37 | 14.32 | 15.00 |
| 3GPP Rel 6 | HSUPA Subtest-5 | 16.32 | 16.26 | 16.45 | 17.00 | 16.37 | 16.39 | 16.37 | 17.00 |



<Reduced Power on Product Specific Mode>

| Band | | WCDMA II | | | Tune-up Limit (dBm) | WCDMA IV | | | Tune-up Limit (dBm) |
|-----------------|--------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|
| TX Channel | | 9262 | 9400 | 9538 | | 1312 | 1413 | 1513 | |
| Rx Channel | | 9662 | 9800 | 9938 | | 1537 | 1638 | 1738 | |
| Frequency (MHz) | | 1852.4 | 1880 | 1907.6 | | 1712.4 | 1732.6 | 1752.6 | |
| 3GPP Rel 99 | AMR 12.2Kbps | 20.58 | 20.50 | 20.56 | 21.50 | 20.51 | 20.52 | 20.53 | 21.50 |
| 3GPP Rel 99 | RMC 12.2Kbps | 20.60 | 20.51 | 20.66 | 21.50 | 20.53 | 20.59 | 20.63 | 21.50 |
| 3GPP Rel 6 | HSDPA Subtest-1 | 20.09 | 20.01 | 20.07 | 21.50 | 20.16 | 20.20 | 20.18 | 21.50 |
| 3GPP Rel 6 | HSDPA Subtest-2 | 20.07 | 20.03 | 20.06 | 21.50 | 20.13 | 20.15 | 20.13 | 21.50 |
| 3GPP Rel 6 | HSDPA Subtest-3 | 19.56 | 19.53 | 19.58 | 21.00 | 19.59 | 19.66 | 19.72 | 21.00 |
| 3GPP Rel 6 | HSDPA Subtest-4 | 19.55 | 19.52 | 19.56 | 21.00 | 19.56 | 19.61 | 19.68 | 21.00 |
| 3GPP Rel 8 | DC-HSDPA Subtest-1 | 20.11 | 20.06 | 20.13 | 21.50 | 20.10 | 20.18 | 20.23 | 21.50 |
| 3GPP Rel 8 | DC-HSDPA Subtest-2 | 20.03 | 20.04 | 20.12 | 21.50 | 20.06 | 20.09 | 20.20 | 21.50 |
| 3GPP Rel 8 | DC-HSDPA Subtest-3 | 19.55 | 19.53 | 19.64 | 21.00 | 19.55 | 19.53 | 19.62 | 21.00 |
| 3GPP Rel 8 | DC-HSDPA Subtest-4 | 19.52 | 19.52 | 19.53 | 21.00 | 19.52 | 19.55 | 19.59 | 21.00 |
| 3GPP Rel 6 | HSUPA Subtest-1 | 20.06 | 20.11 | 20.26 | 21.50 | 20.18 | 20.16 | 20.13 | 21.50 |
| 3GPP Rel 6 | HSUPA Subtest-2 | 18.16 | 18.12 | 18.21 | 19.50 | 18.12 | 18.16 | 18.12 | 19.50 |
| 3GPP Rel 6 | HSUPA Subtest-3 | 19.16 | 19.11 | 19.26 | 20.50 | 19.10 | 19.08 | 19.22 | 20.50 |
| 3GPP Rel 6 | HSUPA Subtest-4 | 18.13 | 18.20 | 18.19 | 19.50 | 18.13 | 18.16 | 18.18 | 19.50 |
| 3GPP Rel 6 | HSUPA Subtest-5 | 20.29 | 20.23 | 20.22 | 21.50 | 20.11 | 20.20 | 20.26 | 21.50 |



<CDMA2000 Conducted Power>

General Note:

1. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

<Default Power Mode>

| Band | CDMA BC0 | | | Tune-up Limit (dBm) | CDMA BC1 | | | Tune-up Limit (dBm) |
|------------------|------------|--------|--------|---------------------|----------|-------|---------|---------------------|
| | TX Channel | 1013 | 384 | | 777 | 25 | 600 | |
| Frequency (MHz) | 824.7 | 836.52 | 848.31 | | 1851.25 | 1880 | 1908.75 | |
| RC1 SO55 | 23.56 | 23.69 | 23.92 | 25.00 | 23.95 | 23.94 | 23.95 | 25.00 |
| RC3 SO55 | 23.76 | 23.69 | 23.81 | 25.00 | 24.30 | 24.13 | 24.06 | 25.00 |
| RC3 SO32 (F+SCH) | 23.92 | 23.70 | 23.75 | 25.00 | 23.93 | 24.23 | 24.26 | 25.00 |
| RC3 SO32 (+SCH) | 23.61 | 23.64 | 23.59 | 25.00 | 23.85 | 24.03 | 24.02 | 25.00 |
| RTAP 153.6Kbps | 23.61 | 23.77 | 23.53 | 25.00 | 24.06 | 24.20 | 23.99 | 25.00 |
| RETAP 4096Bits | 23.47 | 23.82 | 23.82 | 25.00 | 24.03 | 24.16 | 23.96 | 25.00 |

<Reduced Power on Hotspot / Body-worn Mode>

| Band | CDMA BC1 | | | Tune-up Limit (dBm) |
|------------------|------------|-------|---------|---------------------|
| | TX Channel | 25 | 600 | |
| Frequency (MHz) | 1851.25 | 1880 | 1908.75 | |
| RC1 SO55 | 16.98 | 17.10 | 17.21 | 17.50 |
| RC3 SO55 | 17.00 | 17.08 | 17.22 | 17.50 |
| RC3 SO32 (F+SCH) | 17.06 | 17.11 | 17.23 | 17.50 |
| RC3 SO32 (+SCH) | 16.99 | 17.06 | 17.16 | 17.50 |
| RTAP 153.6Kbps | 16.97 | 17.00 | 17.18 | 17.50 |
| RETAP 4096Bits | 17.01 | 17.02 | 17.22 | 17.50 |

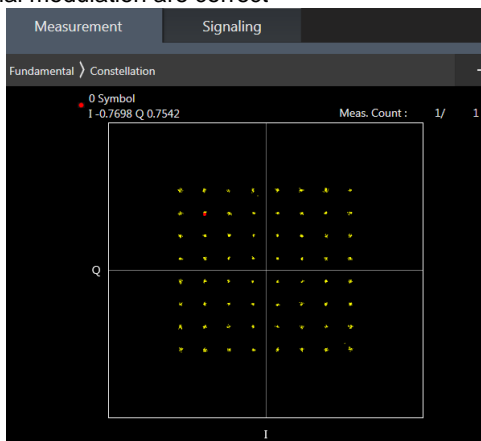
<Reduced Power on Product Specific Mode>

| Band | CDMA BC1 | | | Tune-up Limit (dBm) |
|------------------|------------|-------|---------|---------------------|
| | TX Channel | 25 | 600 | |
| Frequency (MHz) | 1851.25 | 1880 | 1908.75 | |
| RC1 SO55 | 22.12 | 22.24 | 22.28 | 23.00 |
| RC3 SO55 | 22.09 | 22.19 | 22.29 | 23.00 |
| RC3 SO32 (F+SCH) | 22.18 | 22.20 | 22.26 | 23.00 |
| RC3 SO32 (+SCH) | 22.10 | 22.16 | 22.20 | 23.00 |
| RTAP 153.6Kbps | 22.27 | 22.28 | 22.31 | 23.00 |
| RETAP 4096Bits | 22.12 | 22.21 | 22.28 | 23.00 |

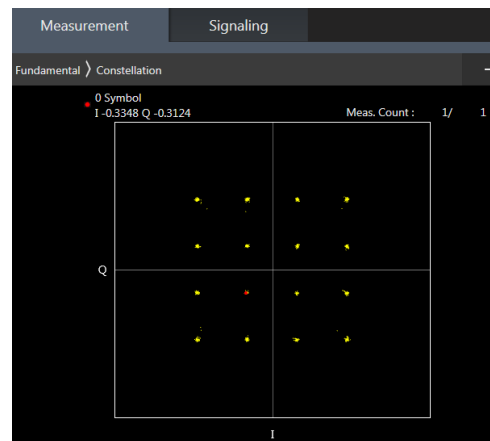
<LTE Conducted Power>

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 ≤ 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 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 ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM 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 ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
8. For LTE B12 / B5 / B4 / B26 / B71 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 band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; 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 2017 TCB workshop, for 64 QAM and 16 QAM 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



64QAM



16QAM



<Default Power Mode>

<LTE Band 2>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 18700 | 18900 | 19100 | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1900 | | |
| 20 | QPSK | 1 | 0 | 22.98 | 22.91 | 22.92 | | |
| 20 | QPSK | 1 | 49 | 22.90 | 22.83 | 22.95 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 22.80 | 22.91 | 22.94 | | |
| 20 | QPSK | 50 | 0 | 22.08 | 21.94 | 22.03 | | |
| 20 | QPSK | 50 | 24 | 22.07 | 22.02 | 22.05 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.05 | 22.05 | 22.03 | | |
| 20 | QPSK | 100 | 0 | 22.07 | 22.03 | 22.04 | | |
| 20 | 16QAM | 1 | 0 | 22.30 | 22.23 | 22.25 | 23 | 1 |
| 20 | 16QAM | 1 | 49 | 22.24 | 22.21 | 22.29 | | |
| 20 | 16QAM | 1 | 99 | 22.16 | 22.24 | 22.26 | | |
| 20 | 16QAM | 50 | 0 | 21.01 | 20.96 | 21.06 | 22 | 2 |
| 20 | 16QAM | 50 | 24 | 21.08 | 21.08 | 21.14 | | |
| 20 | 16QAM | 50 | 50 | 21.05 | 21.03 | 21.15 | | |
| 20 | 16QAM | 100 | 0 | 21.07 | 21.03 | 21.06 | 22 | 2 |
| 20 | 64QAM | 1 | 0 | 21.20 | 21.05 | 21.24 | | |
| 20 | 64QAM | 1 | 49 | 21.09 | 21.02 | 21.17 | | |
| 20 | 64QAM | 1 | 99 | 21.06 | 21.15 | 21.11 | 21 | 3 |
| 20 | 64QAM | 50 | 0 | 20.02 | 19.97 | 20.08 | | |
| 20 | 64QAM | 50 | 24 | 20.13 | 20.05 | 20.17 | | |
| 20 | 64QAM | 50 | 50 | 20.07 | 20.07 | 20.09 | 21 | 3 |
| 20 | 64QAM | 100 | 0 | 20.09 | 20.03 | 20.09 | | |
| Channel | | | | 18675 | 18900 | 19125 | | |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1902.5 | Tune-up limit (dBm) | MPR (dB) |
| 15 | QPSK | 1 | 0 | 22.96 | 22.91 | 22.93 | 24 | 0 |
| 15 | QPSK | 1 | 37 | 22.94 | 22.86 | 22.97 | | |
| 15 | QPSK | 1 | 74 | 22.90 | 22.88 | 22.91 | | |
| 15 | QPSK | 36 | 0 | 22.08 | 21.95 | 22.02 | 23 | 1 |
| 15 | QPSK | 36 | 20 | 22.11 | 22.02 | 22.15 | | |
| 15 | QPSK | 36 | 39 | 22.06 | 22.03 | 22.15 | | |
| 15 | QPSK | 75 | 0 | 22.07 | 22.04 | 22.06 | 23 | 1 |
| 15 | 16QAM | 1 | 0 | 22.29 | 22.25 | 22.35 | | |
| 15 | 16QAM | 1 | 37 | 22.23 | 22.23 | 22.30 | | |
| 15 | 16QAM | 1 | 74 | 22.27 | 22.19 | 22.29 | 22 | 2 |
| 15 | 16QAM | 36 | 0 | 21.07 | 20.95 | 21.03 | | |
| 15 | 16QAM | 36 | 20 | 21.09 | 21.03 | 21.14 | | |
| 15 | 16QAM | 36 | 39 | 21.08 | 21.03 | 21.15 | 22 | 2 |
| 15 | 16QAM | 75 | 0 | 21.09 | 21.08 | 21.08 | | |
| 15 | 64QAM | 1 | 0 | 21.12 | 21.14 | 21.20 | | |
| 15 | 64QAM | 1 | 37 | 21.21 | 21.12 | 21.09 | 22 | 2 |
| 15 | 64QAM | 1 | 74 | 21.14 | 21.09 | 21.07 | | |
| 15 | 64QAM | 36 | 0 | 20.13 | 20.01 | 20.10 | | |
| 15 | 64QAM | 36 | 20 | 19.95 | 20.07 | 20.16 | 21 | 3 |
| 15 | 64QAM | 36 | 39 | 20.12 | 20.09 | 20.05 | | |
| 15 | 64QAM | 75 | 0 | 20.11 | 20.05 | 20.07 | | |
| Channel | | | | 18650 | 18900 | 19150 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1855 | 1880 | 1905 | 24 | 0 |
| 10 | QPSK | 1 | 0 | 22.75 | 22.64 | 22.76 | | |
| 10 | QPSK | 1 | 25 | 22.71 | 22.62 | 22.79 | | |
| 10 | QPSK | 1 | 49 | 22.67 | 22.65 | 22.78 | 24 | 0 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 0 | 21.85 | 21.70 | 21.82 | 23 | 1 |
| 10 | QPSK | 25 | 12 | 21.88 | 21.81 | 21.88 | | |
| 10 | QPSK | 25 | 25 | 21.87 | 21.82 | 21.96 | | |
| 10 | QPSK | 50 | 0 | 21.89 | 21.82 | 21.85 | 23 | 1 |
| 10 | 16QAM | 1 | 0 | 22.12 | 22.00 | 22.16 | | |
| 10 | 16QAM | 1 | 25 | 22.07 | 22.03 | 22.17 | | |
| 10 | 16QAM | 1 | 49 | 22.07 | 22.08 | 22.16 | 22 | 2 |
| 10 | 16QAM | 25 | 0 | 20.85 | 20.72 | 20.83 | | |
| 10 | 16QAM | 25 | 12 | 20.90 | 20.83 | 20.86 | | |
| 10 | 16QAM | 25 | 25 | 20.88 | 20.83 | 20.96 | 22 | 2 |
| 10 | 16QAM | 50 | 0 | 20.86 | 20.81 | 20.84 | | |
| 10 | 64QAM | 1 | 0 | 21.04 | 20.86 | 21.04 | | |
| 10 | 64QAM | 1 | 25 | 21.03 | 20.95 | 21.10 | 22 | 2 |
| 10 | 64QAM | 1 | 49 | 20.98 | 20.99 | 21.09 | | |
| 10 | 64QAM | 25 | 0 | 19.89 | 19.74 | 19.85 | | |
| 10 | 64QAM | 25 | 12 | 19.93 | 19.84 | 19.94 | 21 | 3 |
| 10 | 64QAM | 25 | 25 | 19.87 | 19.85 | 19.99 | | |
| 10 | 64QAM | 50 | 0 | 19.91 | 19.85 | 19.87 | | |
| Channel | | | | 18625 | 18900 | 19175 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1907.5 | | |
| 5 | QPSK | 1 | 0 | 22.73 | 22.60 | 22.79 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.77 | 22.71 | 22.86 | | |
| 5 | QPSK | 1 | 24 | 22.77 | 22.71 | 22.83 | | |
| 5 | QPSK | 12 | 0 | 21.87 | 21.71 | 21.90 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.91 | 21.80 | 21.95 | | |
| 5 | QPSK | 12 | 13 | 21.87 | 21.79 | 21.91 | | |
| 5 | QPSK | 25 | 0 | 21.85 | 21.76 | 21.91 | 23 | 1 |
| 5 | 16QAM | 1 | 0 | 22.06 | 21.94 | 22.09 | | |
| 5 | 16QAM | 1 | 12 | 22.06 | 21.98 | 22.12 | | |
| 5 | 16QAM | 1 | 24 | 22.09 | 22.05 | 22.15 | 22 | 2 |
| 5 | 16QAM | 12 | 0 | 20.87 | 20.74 | 20.89 | | |
| 5 | 16QAM | 12 | 7 | 20.89 | 20.83 | 20.95 | | |
| 5 | 16QAM | 12 | 13 | 20.88 | 20.82 | 20.93 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 20.89 | 20.79 | 20.93 | | |
| 5 | 64QAM | 1 | 0 | 21.01 | 20.86 | 21.04 | | |
| 5 | 64QAM | 1 | 12 | 21.01 | 20.92 | 21.07 | 22 | 2 |
| 5 | 64QAM | 1 | 24 | 21.01 | 20.98 | 21.08 | | |
| 5 | 64QAM | 12 | 0 | 19.89 | 19.76 | 19.95 | | |
| 5 | 64QAM | 12 | 7 | 19.93 | 19.92 | 20.02 | 21 | 3 |
| 5 | 64QAM | 12 | 13 | 19.95 | 19.87 | 20.02 | | |
| 5 | 64QAM | 25 | 0 | 19.88 | 19.80 | 19.92 | | |
| Channel | | | | 18615 | 18900 | 19185 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1851.5 | 1880 | 1908.5 | | |
| 3 | QPSK | 1 | 0 | 22.78 | 22.67 | 22.78 | 24 | 0 |
| 3 | QPSK | 1 | 8 | 22.86 | 22.74 | 22.86 | | |
| 3 | QPSK | 1 | 14 | 22.80 | 22.72 | 22.82 | | |
| 3 | QPSK | 8 | 0 | 21.85 | 21.78 | 21.87 | 23 | 1 |
| 3 | QPSK | 8 | 4 | 21.90 | 21.78 | 21.95 | | |
| 3 | QPSK | 8 | 7 | 21.87 | 21.78 | 21.92 | | |
| 3 | QPSK | 15 | 0 | 21.86 | 21.80 | 21.89 | 23 | 1 |
| 3 | 16QAM | 1 | 0 | 22.14 | 21.97 | 22.07 | | |
| 3 | 16QAM | 1 | 8 | 22.24 | 22.08 | 22.24 | | |
| 3 | 16QAM | 1 | 14 | 22.18 | 22.02 | 22.18 | 22 | 2 |
| 3 | 16QAM | 8 | 0 | 20.90 | 20.83 | 20.94 | | |
| 3 | 16QAM | 8 | 4 | 20.95 | 20.89 | 20.97 | | |
| 3 | 16QAM | 8 | 7 | 20.93 | 20.85 | 20.96 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|------------------------|-------------|
| 3 | 16QAM | 15 | 0 | 20.88 | 20.82 | 20.93 | | |
| 3 | 64QAM | 1 | 0 | 21.01 | 20.89 | 21.04 | 22 | 2 |
| 3 | 64QAM | 1 | 8 | 21.08 | 20.99 | 21.11 | | |
| 3 | 64QAM | 1 | 14 | 21.02 | 20.95 | 21.07 | | |
| 3 | 64QAM | 8 | 0 | 19.91 | 19.84 | 19.96 | 21 | 3 |
| 3 | 64QAM | 8 | 4 | 19.95 | 19.86 | 20.00 | | |
| 3 | 64QAM | 8 | 7 | 19.94 | 19.85 | 19.98 | | |
| 3 | 64QAM | 15 | 0 | 19.90 | 19.82 | 19.94 | | |
| Channel | | | | 18607 | 18900 | 19193 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1850.7 | 1880 | 1909.3 | | |
| 1.4 | QPSK | 1 | 0 | 22.66 | 22.58 | 22.69 | 24 | 0 |
| 1.4 | QPSK | 1 | 3 | 22.72 | 22.64 | 22.79 | | |
| 1.4 | QPSK | 1 | 5 | 22.67 | 22.61 | 22.75 | | |
| 1.4 | QPSK | 3 | 0 | 22.69 | 22.65 | 22.76 | | |
| 1.4 | QPSK | 3 | 1 | 22.72 | 22.69 | 22.78 | | |
| 1.4 | QPSK | 3 | 3 | 22.70 | 22.63 | 22.77 | | |
| 1.4 | QPSK | 6 | 0 | 21.79 | 21.69 | 21.85 | 23 | 1 |
| 1.4 | 16QAM | 1 | 0 | 22.02 | 21.94 | 22.06 | 23 | 1 |
| 1.4 | 16QAM | 1 | 3 | 22.10 | 22.06 | 22.12 | | |
| 1.4 | 16QAM | 1 | 5 | 22.04 | 21.99 | 22.08 | | |
| 1.4 | 16QAM | 3 | 0 | 21.83 | 21.73 | 21.83 | | |
| 1.4 | 16QAM | 3 | 1 | 21.87 | 21.76 | 21.89 | | |
| 1.4 | 16QAM | 3 | 3 | 21.83 | 21.75 | 21.83 | | |
| 1.4 | 16QAM | 6 | 0 | 20.85 | 20.77 | 20.90 | 22 | 2 |
| 1.4 | 64QAM | 1 | 0 | 20.95 | 20.85 | 20.96 | 22 | 2 |
| 1.4 | 64QAM | 1 | 3 | 20.99 | 20.92 | 21.03 | | |
| 1.4 | 64QAM | 1 | 5 | 20.94 | 20.87 | 20.98 | | |
| 1.4 | 64QAM | 3 | 0 | 20.95 | 20.85 | 20.96 | | |
| 1.4 | 64QAM | 3 | 1 | 20.98 | 20.87 | 21.02 | | |
| 1.4 | 64QAM | 3 | 3 | 20.94 | 20.86 | 20.97 | | |
| 1.4 | 64QAM | 6 | 0 | 19.81 | 19.74 | 19.85 | 21 | 3 |



<LTE Band 4>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 20050 | 20175 | 20300 | 24 | 0 |
| Frequency (MHz) | | | | 1720 | 1732.5 | 1745 | | |
| 20 | QPSK | 1 | 0 | 23.12 | 23.16 | 23.14 | | |
| 20 | QPSK | 1 | 49 | 22.96 | 23.00 | 22.95 | 23 | 1 |
| 20 | QPSK | 1 | 99 | 23.00 | 22.96 | 22.88 | | |
| 20 | QPSK | 50 | 0 | 22.14 | 22.21 | 22.14 | | |
| 20 | QPSK | 50 | 24 | 22.20 | 22.12 | 22.15 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.11 | 22.11 | 22.04 | | |
| 20 | QPSK | 100 | 0 | 22.14 | 22.16 | 22.11 | | |
| 20 | 16QAM | 1 | 0 | 22.46 | 22.45 | 22.46 | 23 | 1 |
| 20 | 16QAM | 1 | 49 | 22.33 | 22.38 | 22.28 | | |
| 20 | 16QAM | 1 | 99 | 22.37 | 22.31 | 22.22 | | |
| 20 | 16QAM | 50 | 0 | 21.19 | 21.23 | 21.14 | 22 | 2 |
| 20 | 16QAM | 50 | 24 | 21.19 | 21.16 | 21.16 | | |
| 20 | 16QAM | 50 | 50 | 21.10 | 21.12 | 21.05 | | |
| 20 | 16QAM | 100 | 0 | 21.17 | 21.13 | 21.11 | 22 | 2 |
| 20 | 64QAM | 1 | 0 | 21.97 | 21.95 | 21.88 | | |
| 20 | 64QAM | 1 | 49 | 21.77 | 21.83 | 21.74 | | |
| 20 | 64QAM | 1 | 99 | 21.69 | 21.83 | 21.76 | 21 | 3 |
| 20 | 64QAM | 50 | 0 | 20.75 | 20.83 | 20.71 | | |
| 20 | 64QAM | 50 | 24 | 20.76 | 20.73 | 20.72 | | |
| 20 | 64QAM | 50 | 50 | 20.69 | 20.70 | 20.64 | 21 | 3 |
| 20 | 64QAM | 100 | 0 | 20.77 | 20.75 | 20.73 | | |
| Channel | | | | 20025 | 20175 | 20325 | | |
| Frequency (MHz) | | | | 1717.5 | 1732.5 | 1747.5 | | |
| 15 | QPSK | 1 | 0 | 23.10 | 23.14 | 23.12 | | |
| 15 | QPSK | 1 | 37 | 22.98 | 23.00 | 22.97 | 23 | 1 |
| 15 | QPSK | 1 | 74 | 22.91 | 22.95 | 22.94 | | |
| 15 | QPSK | 36 | 0 | 22.13 | 22.21 | 22.13 | | |
| 15 | QPSK | 36 | 20 | 22.12 | 22.13 | 22.03 | 23 | 1 |
| 15 | QPSK | 36 | 39 | 22.08 | 22.11 | 22.06 | | |
| 15 | QPSK | 75 | 0 | 22.15 | 22.12 | 22.06 | | |
| 15 | 16QAM | 1 | 0 | 22.45 | 22.49 | 22.40 | 23 | 1 |
| 15 | 16QAM | 1 | 37 | 22.26 | 22.33 | 22.25 | | |
| 15 | 16QAM | 1 | 74 | 22.24 | 22.33 | 22.25 | | |
| 15 | 16QAM | 36 | 0 | 21.13 | 21.20 | 21.13 | 22 | 2 |
| 15 | 16QAM | 36 | 20 | 21.15 | 21.12 | 21.05 | | |
| 15 | 16QAM | 36 | 39 | 21.10 | 21.13 | 21.08 | | |
| 15 | 16QAM | 75 | 0 | 21.16 | 21.13 | 21.07 | 22 | 2 |
| 15 | 64QAM | 1 | 0 | 21.96 | 21.95 | 21.89 | | |
| 15 | 64QAM | 1 | 37 | 21.74 | 21.86 | 21.76 | | |
| 15 | 64QAM | 1 | 74 | 21.70 | 21.85 | 21.78 | 21 | 3 |
| 15 | 64QAM | 36 | 0 | 20.72 | 20.80 | 20.73 | | |
| 15 | 64QAM | 36 | 20 | 20.73 | 20.70 | 20.63 | | |
| 15 | 64QAM | 36 | 39 | 20.71 | 20.73 | 20.67 | 21 | 3 |
| 15 | 64QAM | 75 | 0 | 20.76 | 20.73 | 20.65 | | |
| Channel | | | | 20000 | 20175 | 20350 | | |
| Frequency (MHz) | | | | 1715 | 1732.5 | 1750 | | |
| 10 | QPSK | 1 | 0 | 22.84 | 22.95 | 22.80 | | |
| 10 | QPSK | 1 | 25 | 22.83 | 22.89 | 22.78 | 23 | 1 |
| 10 | QPSK | 1 | 49 | 22.80 | 22.86 | 22.78 | | |
| 10 | QPSK | 25 | 0 | 21.93 | 21.92 | 21.83 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

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|-----------------|-------|----|----|--------|--------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 21.94 | 21.94 | 21.96 | | |
| 10 | QPSK | 25 | 25 | 21.95 | 21.99 | 21.92 | | |
| 10 | QPSK | 50 | 0 | 21.96 | 21.92 | 21.85 | | |
| 10 | 16QAM | 1 | 0 | 22.24 | 22.33 | 22.21 | 23 | 1 |
| 10 | 16QAM | 1 | 25 | 22.23 | 22.28 | 22.17 | | |
| 10 | 16QAM | 1 | 49 | 22.20 | 22.25 | 22.18 | | |
| 10 | 16QAM | 25 | 0 | 20.91 | 20.89 | 20.84 | 22 | 2 |
| 10 | 16QAM | 25 | 12 | 20.96 | 20.95 | 20.93 | | |
| 10 | 16QAM | 25 | 25 | 20.95 | 21.01 | 20.93 | | |
| 10 | 16QAM | 50 | 0 | 20.97 | 20.93 | 20.85 | | |
| 10 | 64QAM | 1 | 0 | 21.83 | 21.87 | 21.84 | 22 | 2 |
| 10 | 64QAM | 1 | 25 | 21.77 | 21.89 | 21.81 | | |
| 10 | 64QAM | 1 | 49 | 21.77 | 21.87 | 21.82 | | |
| 10 | 64QAM | 25 | 0 | 20.52 | 20.51 | 20.46 | 21 | 3 |
| 10 | 64QAM | 25 | 12 | 20.60 | 20.55 | 20.54 | | |
| 10 | 64QAM | 25 | 25 | 20.59 | 20.59 | 20.54 | | |
| 10 | 64QAM | 50 | 0 | 20.58 | 20.54 | 20.47 | | |
| Channel | | | | 19975 | 20175 | 20375 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1712.5 | 1732.5 | 1752.5 | | |
| 5 | QPSK | 1 | 0 | 22.84 | 22.83 | 22.80 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.90 | 22.93 | 22.80 | | |
| 5 | QPSK | 1 | 24 | 22.85 | 22.93 | 22.83 | | |
| 5 | QPSK | 12 | 0 | 21.94 | 21.93 | 21.91 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.99 | 21.98 | 21.92 | | |
| 5 | QPSK | 12 | 13 | 21.97 | 22.01 | 21.94 | | |
| 5 | QPSK | 25 | 0 | 21.92 | 21.92 | 21.88 | | |
| 5 | 16QAM | 1 | 0 | 22.16 | 22.20 | 22.13 | 23 | 1 |
| 5 | 16QAM | 1 | 12 | 22.18 | 22.25 | 22.15 | | |
| 5 | 16QAM | 1 | 24 | 22.23 | 22.22 | 22.17 | | |
| 5 | 16QAM | 12 | 0 | 20.98 | 20.95 | 20.89 | 22 | 2 |
| 5 | 16QAM | 12 | 7 | 20.97 | 20.97 | 20.97 | | |
| 5 | 16QAM | 12 | 13 | 20.99 | 21.00 | 20.92 | | |
| 5 | 16QAM | 25 | 0 | 20.96 | 20.95 | 20.89 | | |
| 5 | 64QAM | 1 | 0 | 21.70 | 21.69 | 21.67 | 22 | 2 |
| 5 | 64QAM | 1 | 12 | 21.67 | 21.71 | 21.59 | | |
| 5 | 64QAM | 1 | 24 | 21.74 | 21.71 | 21.63 | | |
| 5 | 64QAM | 12 | 0 | 20.51 | 20.52 | 20.47 | 21 | 3 |
| 5 | 64QAM | 12 | 7 | 20.58 | 20.58 | 20.55 | | |
| 5 | 64QAM | 12 | 13 | 20.57 | 20.58 | 20.49 | | |
| 5 | 64QAM | 25 | 0 | 20.57 | 20.55 | 20.49 | | |
| Channel | | | | 19965 | 20175 | 20385 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1711.5 | 1732.5 | 1753.5 | | |
| 3 | QPSK | 1 | 0 | 22.87 | 22.84 | 22.78 | 24 | 0 |
| 3 | QPSK | 1 | 8 | 22.93 | 22.96 | 22.84 | | |
| 3 | QPSK | 1 | 14 | 22.89 | 22.93 | 22.80 | | |
| 3 | QPSK | 8 | 0 | 21.91 | 21.89 | 21.87 | 23 | 1 |
| 3 | QPSK | 8 | 4 | 21.94 | 21.97 | 21.88 | | |
| 3 | QPSK | 8 | 7 | 21.93 | 22.03 | 21.90 | | |
| 3 | QPSK | 15 | 0 | 21.96 | 21.96 | 21.90 | | |
| 3 | 16QAM | 1 | 0 | 22.20 | 22.12 | 22.10 | 23 | 1 |
| 3 | 16QAM | 1 | 8 | 22.24 | 22.24 | 22.21 | | |
| 3 | 16QAM | 1 | 14 | 22.17 | 22.21 | 22.12 | | |
| 3 | 16QAM | 8 | 0 | 21.02 | 21.01 | 20.97 | 22 | 2 |
| 3 | 16QAM | 8 | 4 | 21.01 | 20.99 | 20.98 | | |
| 3 | 16QAM | 8 | 7 | 20.98 | 21.06 | 20.94 | | |
| 3 | 16QAM | 15 | 0 | 20.95 | 20.95 | 20.95 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 21.11 | 21.13 | 21.05 | 22 | 2 |
| 3 | 64QAM | 1 | 8 | 21.21 | 21.24 | 21.15 | | |
| 3 | 64QAM | 1 | 14 | 21.17 | 21.20 | 21.08 | | |
| 3 | 64QAM | 8 | 0 | 20.04 | 20.00 | 19.93 | 21 | 3 |
| 3 | 64QAM | 8 | 4 | 20.05 | 20.03 | 19.97 | | |
| 3 | 64QAM | 8 | 7 | 19.99 | 20.05 | 19.97 | | |
| 3 | 64QAM | 15 | 0 | 19.97 | 19.99 | 19.95 | | |
| Channel | | | | 19957 | 20175 | 20393 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1710.7 | 1732.5 | 1754.3 | | |
| 1.4 | QPSK | 1 | 0 | 22.79 | 22.81 | 22.72 | 24 | 0 |
| 1.4 | QPSK | 1 | 3 | 22.85 | 22.86 | 22.80 | | |
| 1.4 | QPSK | 1 | 5 | 22.77 | 22.80 | 22.75 | | |
| 1.4 | QPSK | 3 | 0 | 22.84 | 22.84 | 22.79 | | |
| 1.4 | QPSK | 3 | 1 | 22.83 | 22.85 | 22.79 | | |
| 1.4 | QPSK | 3 | 3 | 22.81 | 22.88 | 22.75 | | |
| 1.4 | QPSK | 6 | 0 | 21.86 | 21.92 | 21.79 | 23 | 1 |
| 1.4 | 16QAM | 1 | 0 | 22.13 | 22.14 | 22.01 | 23 | 1 |
| 1.4 | 16QAM | 1 | 3 | 22.17 | 22.20 | 22.08 | | |
| 1.4 | 16QAM | 1 | 5 | 22.12 | 22.14 | 22.00 | | |
| 1.4 | 16QAM | 3 | 0 | 21.87 | 21.94 | 21.83 | | |
| 1.4 | 16QAM | 3 | 1 | 21.92 | 22.01 | 21.88 | | |
| 1.4 | 16QAM | 3 | 3 | 21.90 | 21.94 | 21.83 | | |
| 1.4 | 16QAM | 6 | 0 | 20.96 | 20.98 | 20.91 | 22 | 2 |
| 1.4 | 64QAM | 1 | 0 | 21.02 | 21.11 | 20.98 | 22 | 2 |
| 1.4 | 64QAM | 1 | 3 | 21.13 | 21.18 | 21.09 | | |
| 1.4 | 64QAM | 1 | 5 | 21.07 | 21.12 | 21.02 | | |
| 1.4 | 64QAM | 3 | 0 | 21.00 | 21.04 | 20.94 | | |
| 1.4 | 64QAM | 3 | 1 | 21.07 | 21.07 | 21.01 | | |
| 1.4 | 64QAM | 3 | 3 | 21.04 | 21.07 | 20.96 | | |
| 1.4 | 64QAM | 6 | 0 | 19.90 | 19.93 | 19.84 | 21 | 3 |



<LTE Band 5>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 20450 | 20525 | 20600 | | |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | | |
| 10 | QPSK | 1 | 0 | 22.90 | 22.98 | 23.04 | | |
| 10 | QPSK | 1 | 25 | 22.81 | 22.95 | 22.93 | 24 | 0 |
| 10 | QPSK | 1 | 49 | 22.93 | 22.93 | 22.89 | | |
| 10 | QPSK | 25 | 0 | 21.96 | 22.10 | 22.07 | | |
| 10 | QPSK | 25 | 12 | 22.05 | 22.06 | 22.05 | 23 | 1 |
| 10 | QPSK | 25 | 25 | 22.05 | 22.08 | 22.09 | | |
| 10 | QPSK | 50 | 0 | 22.04 | 22.06 | 22.05 | | |
| 10 | 16QAM | 1 | 0 | 22.25 | 22.30 | 22.37 | 23 | 1 |
| 10 | 16QAM | 1 | 25 | 22.26 | 22.34 | 22.30 | | |
| 10 | 16QAM | 1 | 49 | 22.29 | 22.32 | 22.29 | | |
| 10 | 16QAM | 25 | 0 | 20.95 | 21.09 | 21.07 | 22 | 2 |
| 10 | 16QAM | 25 | 12 | 21.06 | 21.08 | 21.09 | | |
| 10 | 16QAM | 25 | 25 | 21.03 | 21.12 | 21.11 | | |
| 10 | 16QAM | 50 | 0 | 21.05 | 21.08 | 21.06 | 22 | 2 |
| 10 | 64QAM | 1 | 0 | 21.15 | 21.11 | 21.25 | | |
| 10 | 64QAM | 1 | 25 | 21.22 | 21.28 | 21.27 | | |
| 10 | 64QAM | 1 | 49 | 21.22 | 21.20 | 21.20 | 21 | 3 |
| 10 | 64QAM | 25 | 0 | 19.95 | 20.07 | 20.09 | | |
| 10 | 64QAM | 25 | 12 | 20.08 | 20.12 | 20.11 | | |
| 10 | 64QAM | 25 | 25 | 20.07 | 20.13 | 20.13 | 21 | 3 |
| 10 | 64QAM | 50 | 0 | 20.06 | 20.09 | 20.09 | | |
| Channel | | | | 20425 | 20525 | 20625 | | |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 0 | 22.99 | 22.99 | 23.01 | | |
| 5 | QPSK | 1 | 12 | 22.91 | 23.00 | 23.01 | | |
| 5 | QPSK | 1 | 24 | 22.89 | 23.00 | 22.92 | | |
| 5 | QPSK | 12 | 0 | 22.03 | 22.06 | 22.03 | | |
| 5 | QPSK | 12 | 7 | 22.04 | 22.08 | 22.05 | 23 | 1 |
| 5 | QPSK | 12 | 13 | 21.99 | 22.09 | 22.03 | | |
| 5 | QPSK | 25 | 0 | 22.03 | 22.03 | 22.02 | | |
| 5 | 16QAM | 1 | 0 | 22.34 | 22.36 | 22.37 | 23 | 1 |
| 5 | 16QAM | 1 | 12 | 22.22 | 22.34 | 22.30 | | |
| 5 | 16QAM | 1 | 24 | 22.22 | 22.33 | 22.24 | | |
| 5 | 16QAM | 12 | 0 | 21.09 | 21.13 | 21.09 | 22 | 2 |
| 5 | 16QAM | 12 | 7 | 21.02 | 21.07 | 21.08 | | |
| 5 | 16QAM | 12 | 13 | 20.98 | 21.09 | 21.05 | | |
| 5 | 16QAM | 25 | 0 | 21.02 | 21.03 | 21.03 | 22 | 2 |
| 5 | 64QAM | 1 | 0 | 21.29 | 21.29 | 21.24 | | |
| 5 | 64QAM | 1 | 12 | 21.17 | 21.26 | 21.24 | | |
| 5 | 64QAM | 1 | 24 | 21.18 | 21.29 | 21.19 | 21 | 3 |
| 5 | 64QAM | 12 | 0 | 20.13 | 20.15 | 20.12 | | |
| 5 | 64QAM | 12 | 7 | 20.05 | 20.12 | 20.08 | | |
| 5 | 64QAM | 12 | 13 | 20.04 | 20.14 | 20.07 | 21 | 3 |
| 5 | 64QAM | 25 | 0 | 20.03 | 20.09 | 20.06 | | |
| Channel | | | | 20415 | 20525 | 20635 | | |
| Frequency (MHz) | | | | 825.5 | 836.5 | 847.5 | | |
| 3 | QPSK | 1 | 0 | 22.97 | 22.99 | 22.92 | | |
| 3 | QPSK | 1 | 8 | 22.93 | 23.03 | 22.97 | | |
| 3 | QPSK | 1 | 14 | 22.84 | 22.94 | 22.87 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|-------|-------|-------|---------------------|----------|
| 3 | QPSK | 8 | 0 | 22.00 | 22.06 | 22.04 | 23 | 1 |
| 3 | QPSK | 8 | 4 | 22.01 | 22.08 | 22.08 | | |
| 3 | QPSK | 8 | 7 | 21.97 | 22.04 | 22.00 | | |
| 3 | QPSK | 15 | 0 | 21.98 | 22.03 | 21.96 | | |
| 3 | 16QAM | 1 | 0 | 22.28 | 22.33 | 22.31 | 23 | 1 |
| 3 | 16QAM | 1 | 8 | 22.28 | 22.39 | 22.35 | | |
| 3 | 16QAM | 1 | 14 | 22.20 | 22.28 | 22.24 | | |
| 3 | 16QAM | 8 | 0 | 21.09 | 21.13 | 21.07 | 22 | 2 |
| 3 | 16QAM | 8 | 4 | 21.08 | 21.11 | 21.14 | | |
| 3 | 16QAM | 8 | 7 | 21.04 | 21.10 | 21.08 | | |
| 3 | 16QAM | 15 | 0 | 21.06 | 21.05 | 21.02 | | |
| 3 | 64QAM | 1 | 0 | 21.22 | 21.20 | 21.18 | 22 | 2 |
| 3 | 64QAM | 1 | 8 | 21.20 | 21.32 | 21.28 | | |
| 3 | 64QAM | 1 | 14 | 21.10 | 21.22 | 21.14 | | |
| 3 | 64QAM | 8 | 0 | 20.07 | 20.14 | 20.06 | 21 | 3 |
| 3 | 64QAM | 8 | 4 | 20.07 | 20.12 | 20.11 | | |
| 3 | 64QAM | 8 | 7 | 20.02 | 20.17 | 20.06 | | |
| 3 | 64QAM | 15 | 0 | 20.03 | 20.08 | 20.01 | | |
| Channel | | | | 20407 | 20525 | 20643 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 824.7 | 836.5 | 848.3 | | |
| 1.4 | QPSK | 1 | 0 | 22.89 | 22.88 | 22.86 | 24 | 0 |
| 1.4 | QPSK | 1 | 3 | 22.87 | 22.97 | 22.91 | | |
| 1.4 | QPSK | 1 | 5 | 22.84 | 22.88 | 22.86 | | |
| 1.4 | QPSK | 3 | 0 | 22.90 | 22.89 | 22.90 | | |
| 1.4 | QPSK | 3 | 1 | 22.91 | 22.91 | 22.90 | | |
| 1.4 | QPSK | 3 | 3 | 22.86 | 22.95 | 22.88 | | |
| 1.4 | QPSK | 6 | 0 | 21.97 | 22.05 | 21.97 | 23 | 1 |
| 1.4 | 16QAM | 1 | 0 | 21.89 | 21.92 | 21.93 | 23 | 1 |
| 1.4 | 16QAM | 1 | 3 | 21.94 | 22.07 | 21.91 | | |
| 1.4 | 16QAM | 1 | 5 | 21.86 | 21.96 | 21.91 | | |
| 1.4 | 16QAM | 3 | 0 | 21.68 | 21.72 | 21.69 | | |
| 1.4 | 16QAM | 3 | 1 | 21.71 | 21.75 | 21.73 | | |
| 1.4 | 16QAM | 3 | 3 | 21.64 | 21.75 | 21.62 | | |
| 1.4 | 16QAM | 6 | 0 | 20.67 | 20.65 | 20.59 | 22 | 2 |
| 1.4 | 64QAM | 1 | 0 | 21.17 | 21.17 | 21.15 | 22 | 2 |
| 1.4 | 64QAM | 1 | 3 | 21.18 | 21.30 | 21.20 | | |
| 1.4 | 64QAM | 1 | 5 | 21.09 | 21.18 | 21.06 | | |
| 1.4 | 64QAM | 3 | 0 | 21.08 | 21.14 | 21.10 | | |
| 1.4 | 64QAM | 3 | 1 | 21.14 | 21.15 | 21.12 | | |
| 1.4 | 64QAM | 3 | 3 | 21.07 | 21.14 | 21.06 | | |
| 1.4 | 64QAM | 6 | 0 | 19.97 | 20.07 | 19.95 | 21 | 3 |



<LTE Band 7>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 20850 | 21100 | 21350 | | |
| Frequency (MHz) | | | | 2510 | 2535 | 2560 | | |
| 20 | QPSK | 1 | 0 | 23.16 | 23.06 | 23.16 | | |
| 20 | QPSK | 1 | 49 | 23.20 | 23.06 | 23.22 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 23.22 | 23.36 | 23.34 | | |
| 20 | QPSK | 50 | 0 | 22.34 | 22.23 | 22.26 | | |
| 20 | QPSK | 50 | 24 | 22.31 | 22.25 | 22.33 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.35 | 22.37 | 22.34 | | |
| 20 | QPSK | 100 | 0 | 22.30 | 22.35 | 22.34 | | |
| 20 | 16QAM | 1 | 0 | 22.47 | 22.42 | 22.52 | 23 | 1 |
| 20 | 16QAM | 1 | 49 | 22.56 | 22.42 | 22.54 | | |
| 20 | 16QAM | 1 | 99 | 22.52 | 22.48 | 22.65 | | |
| 20 | 16QAM | 50 | 0 | 21.36 | 21.25 | 21.30 | 22 | 2 |
| 20 | 16QAM | 50 | 24 | 21.33 | 21.25 | 21.36 | | |
| 20 | 16QAM | 50 | 50 | 21.31 | 21.29 | 21.43 | | |
| 20 | 16QAM | 100 | 0 | 21.29 | 21.26 | 21.33 | 22 | 2 |
| 20 | 64QAM | 1 | 0 | 22.00 | 21.86 | 21.95 | | |
| 20 | 64QAM | 1 | 49 | 21.95 | 21.93 | 21.84 | | |
| 20 | 64QAM | 1 | 99 | 21.76 | 22.00 | 21.88 | 22 | 2 |
| 20 | 64QAM | 50 | 0 | 20.94 | 20.82 | 20.90 | | |
| 20 | 64QAM | 50 | 24 | 20.92 | 20.86 | 20.96 | | |
| 20 | 64QAM | 50 | 50 | 20.87 | 20.88 | 20.85 | 21 | 3 |
| 20 | 64QAM | 100 | 0 | 20.89 | 20.86 | 20.92 | | |
| Channel | | | | 20825 | 21100 | 21375 | | |
| Frequency (MHz) | | | | 2507.5 | 2535 | 2562.5 | | |
| 15 | QPSK | 1 | 0 | 23.19 | 23.09 | 23.23 | | |
| 15 | QPSK | 1 | 37 | 23.17 | 23.08 | 23.24 | 24 | 0 |
| 15 | QPSK | 1 | 74 | 23.25 | 23.19 | 23.35 | | |
| 15 | QPSK | 36 | 0 | 22.35 | 22.23 | 22.30 | | |
| 15 | QPSK | 36 | 20 | 22.38 | 22.25 | 22.36 | 23 | 1 |
| 15 | QPSK | 36 | 39 | 22.29 | 22.26 | 22.43 | | |
| 15 | QPSK | 75 | 0 | 22.28 | 22.25 | 22.34 | | |
| 15 | 16QAM | 1 | 0 | 22.52 | 22.38 | 22.50 | 23 | 1 |
| 15 | 16QAM | 1 | 37 | 22.53 | 22.43 | 22.60 | | |
| 15 | 16QAM | 1 | 74 | 22.52 | 22.51 | 22.67 | | |
| 15 | 16QAM | 36 | 0 | 21.38 | 21.22 | 21.31 | 22 | 2 |
| 15 | 16QAM | 36 | 20 | 21.39 | 21.26 | 21.34 | | |
| 15 | 16QAM | 36 | 39 | 21.30 | 21.26 | 21.44 | | |
| 15 | 16QAM | 75 | 0 | 21.31 | 21.26 | 21.35 | 22 | 2 |
| 15 | 64QAM | 1 | 0 | 21.97 | 21.83 | 21.92 | | |
| 15 | 64QAM | 1 | 37 | 21.85 | 21.85 | 21.99 | | |
| 15 | 64QAM | 1 | 74 | 21.56 | 21.94 | 21.88 | 22 | 2 |
| 15 | 64QAM | 36 | 0 | 20.91 | 20.78 | 20.86 | | |
| 15 | 64QAM | 36 | 20 | 20.95 | 20.80 | 20.89 | | |
| 15 | 64QAM | 36 | 39 | 20.85 | 20.83 | 21.00 | 21 | 3 |
| 15 | 64QAM | 75 | 0 | 20.83 | 20.81 | 20.91 | | |
| Channel | | | | 20800 | 21100 | 21400 | | |
| Frequency (MHz) | | | | 2505 | 2535 | 2565 | | |
| 10 | QPSK | 1 | 0 | 22.93 | 22.82 | 22.99 | | |
| 10 | QPSK | 1 | 25 | 22.90 | 22.79 | 22.99 | 24 | 0 |
| 10 | QPSK | 1 | 49 | 22.96 | 22.86 | 23.05 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 0 | 22.11 | 21.99 | 22.11 | 23 | 1 |
| 10 | QPSK | 25 | 12 | 22.17 | 22.03 | 22.16 | | |
| 10 | QPSK | 25 | 25 | 22.17 | 22.03 | 22.24 | | |
| 10 | QPSK | 50 | 0 | 22.16 | 22.03 | 22.14 | 23 | 1 |
| 10 | 16QAM | 1 | 0 | 22.30 | 22.24 | 22.30 | | |
| 10 | 16QAM | 1 | 25 | 22.30 | 22.19 | 22.36 | | |
| 10 | 16QAM | 1 | 49 | 22.32 | 22.26 | 22.39 | 22 | 2 |
| 10 | 16QAM | 25 | 0 | 21.13 | 21.02 | 21.08 | | |
| 10 | 16QAM | 25 | 12 | 21.18 | 21.03 | 21.15 | | |
| 10 | 16QAM | 25 | 25 | 21.16 | 21.03 | 21.25 | | |
| 10 | 16QAM | 50 | 0 | 21.13 | 21.04 | 21.12 | 22 | 2 |
| 10 | 64QAM | 1 | 0 | 21.86 | 21.74 | 21.87 | | |
| 10 | 64QAM | 1 | 25 | 21.83 | 21.71 | 21.90 | | |
| 10 | 64QAM | 1 | 49 | 21.93 | 21.79 | 21.88 | 21 | 3 |
| 10 | 64QAM | 25 | 0 | 20.69 | 20.55 | 20.64 | | |
| 10 | 64QAM | 25 | 12 | 20.72 | 20.64 | 20.69 | | |
| 10 | 64QAM | 25 | 25 | 20.71 | 20.59 | 20.78 | | |
| 10 | 64QAM | 50 | 0 | 20.70 | 20.57 | 20.67 | Tune-up limit (dBm) | MPR (dB) |
| Channel | | | | 20775 | 21100 | 21425 | | |
| Frequency (MHz) | | | | 2502.5 | 2535 | 2567.5 | | |
| 5 | QPSK | 1 | 0 | 22.95 | 22.86 | 23.03 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.99 | 22.90 | 23.05 | | |
| 5 | QPSK | 1 | 24 | 23.01 | 22.88 | 23.06 | | |
| 5 | QPSK | 12 | 0 | 22.14 | 22.02 | 22.18 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 22.12 | 22.05 | 22.21 | | |
| 5 | QPSK | 12 | 13 | 22.15 | 22.04 | 22.19 | | |
| 5 | QPSK | 25 | 0 | 22.13 | 22.00 | 22.21 | | |
| 5 | 16QAM | 1 | 0 | 22.32 | 22.22 | 22.39 | 23 | 1 |
| 5 | 16QAM | 1 | 12 | 22.33 | 22.21 | 22.37 | | |
| 5 | 16QAM | 1 | 24 | 22.37 | 22.27 | 22.42 | | |
| 5 | 16QAM | 12 | 0 | 21.13 | 21.03 | 21.21 | 22 | 2 |
| 5 | 16QAM | 12 | 7 | 21.17 | 21.02 | 21.21 | | |
| 5 | 16QAM | 12 | 13 | 21.18 | 21.03 | 21.23 | | |
| 5 | 16QAM | 25 | 0 | 21.13 | 21.02 | 21.20 | | |
| 5 | 64QAM | 1 | 0 | 21.77 | 21.66 | 21.85 | 22 | 2 |
| 5 | 64QAM | 1 | 12 | 21.75 | 21.65 | 21.86 | | |
| 5 | 64QAM | 1 | 24 | 21.79 | 21.72 | 21.88 | | |
| 5 | 64QAM | 12 | 0 | 20.67 | 20.56 | 20.74 | 21 | 3 |
| 5 | 64QAM | 12 | 7 | 20.66 | 20.58 | 20.76 | | |
| 5 | 64QAM | 12 | 13 | 20.72 | 20.57 | 20.75 | | |
| 5 | 64QAM | 25 | 0 | 20.71 | 20.57 | 20.75 | | |



<LTE Band 12>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 23060 | 23095 | 23130 | | |
| Frequency (MHz) | | | | 704 | 707.5 | 711 | | |
| 10 | QPSK | 1 | 0 | 22.75 | 22.99 | 22.71 | | |
| 10 | QPSK | 1 | 25 | 22.70 | 22.72 | 22.73 | 24 | 0 |
| 10 | QPSK | 1 | 49 | 22.79 | 22.83 | 22.75 | | |
| 10 | QPSK | 25 | 0 | 21.88 | 21.92 | 21.89 | | |
| 10 | QPSK | 25 | 12 | 21.83 | 21.88 | 21.88 | 23 | 1 |
| 10 | QPSK | 25 | 25 | 21.84 | 21.85 | 21.84 | | |
| 10 | QPSK | 50 | 0 | 21.85 | 21.87 | 21.88 | | |
| 10 | 16QAM | 1 | 0 | 22.14 | 22.08 | 22.03 | 23 | 1 |
| 10 | 16QAM | 1 | 25 | 22.10 | 22.11 | 22.09 | | |
| 10 | 16QAM | 1 | 49 | 22.18 | 22.20 | 22.11 | | |
| 10 | 16QAM | 25 | 0 | 20.90 | 20.91 | 20.90 | 22 | 2 |
| 10 | 16QAM | 25 | 12 | 20.95 | 20.89 | 20.87 | | |
| 10 | 16QAM | 25 | 25 | 20.92 | 20.94 | 20.90 | | |
| 10 | 16QAM | 50 | 0 | 20.95 | 20.89 | 20.87 | 22 | 2 |
| 10 | 64QAM | 1 | 0 | 21.02 | 20.96 | 21.04 | | |
| 10 | 64QAM | 1 | 25 | 21.07 | 21.06 | 21.09 | | |
| 10 | 64QAM | 1 | 49 | 21.11 | 21.09 | 21.08 | 22 | 2 |
| 10 | 64QAM | 25 | 0 | 19.92 | 19.90 | 19.91 | | |
| 10 | 64QAM | 25 | 12 | 20.00 | 19.94 | 19.91 | | |
| 10 | 64QAM | 25 | 25 | 19.97 | 19.96 | 19.98 | 21 | 3 |
| 10 | 64QAM | 50 | 0 | 20.01 | 19.95 | 19.91 | | |
| Channel | | | | 23035 | 23095 | 23155 | | |
| Frequency (MHz) | | | | 701.5 | 707.5 | 713.5 | Tune-up limit (dBm) | MPR (dB) |
| 5 | QPSK | 1 | 0 | 22.83 | 22.77 | 22.70 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.78 | 22.77 | 22.82 | | |
| 5 | QPSK | 1 | 24 | 22.79 | 22.78 | 22.79 | | |
| 5 | QPSK | 12 | 0 | 21.96 | 21.90 | 21.89 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.92 | 21.91 | 21.90 | | |
| 5 | QPSK | 12 | 13 | 21.92 | 21.92 | 21.87 | | |
| 5 | QPSK | 25 | 0 | 21.91 | 21.87 | 21.87 | 23 | 1 |
| 5 | 16QAM | 1 | 0 | 22.12 | 22.11 | 22.04 | | |
| 5 | 16QAM | 1 | 12 | 22.06 | 22.05 | 22.10 | | |
| 5 | 16QAM | 1 | 24 | 22.10 | 22.12 | 22.12 | 22 | 2 |
| 5 | 16QAM | 12 | 0 | 21.00 | 20.91 | 20.89 | | |
| 5 | 16QAM | 12 | 7 | 20.94 | 20.95 | 20.93 | | |
| 5 | 16QAM | 12 | 13 | 20.89 | 20.93 | 20.91 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 20.92 | 20.88 | 20.87 | | |
| 5 | 64QAM | 1 | 0 | 21.05 | 21.06 | 21.00 | | |
| 5 | 64QAM | 1 | 12 | 20.97 | 21.04 | 21.08 | 22 | 2 |
| 5 | 64QAM | 1 | 24 | 21.05 | 21.03 | 21.01 | | |
| 5 | 64QAM | 12 | 0 | 20.01 | 19.95 | 19.99 | | |
| 5 | 64QAM | 12 | 7 | 20.02 | 19.99 | 19.97 | 21 | 3 |
| 5 | 64QAM | 12 | 13 | 19.99 | 19.98 | 19.97 | | |
| 5 | 64QAM | 25 | 0 | 19.95 | 19.88 | 19.92 | | |
| Channel | | | | 23025 | 23095 | 23165 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 700.5 | 707.5 | 714.5 | 24 | 0 |
| 3 | QPSK | 1 | 0 | 22.83 | 22.81 | 22.83 | | |
| 3 | QPSK | 1 | 8 | 22.83 | 22.86 | 22.84 | | |
| 3 | QPSK | 1 | 14 | 22.73 | 22.78 | 22.77 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|-------|-------|-------|---------------------|----------|
| 3 | QPSK | 8 | 0 | 21.93 | 21.86 | 21.86 | 23 | 1 |
| 3 | QPSK | 8 | 4 | 21.94 | 21.91 | 21.94 | | |
| 3 | QPSK | 8 | 7 | 21.88 | 21.86 | 21.90 | | |
| 3 | QPSK | 15 | 0 | 21.92 | 21.84 | 21.83 | 23 | 1 |
| 3 | 16QAM | 1 | 0 | 22.20 | 22.11 | 22.11 | | |
| 3 | 16QAM | 1 | 8 | 22.15 | 22.17 | 22.15 | | |
| 3 | 16QAM | 1 | 14 | 22.05 | 22.11 | 22.06 | 22 | 2 |
| 3 | 16QAM | 8 | 0 | 21.01 | 20.93 | 20.96 | | |
| 3 | 16QAM | 8 | 4 | 21.01 | 21.01 | 20.99 | | |
| 3 | 16QAM | 8 | 7 | 20.94 | 20.93 | 20.95 | | |
| 3 | 16QAM | 15 | 0 | 20.97 | 20.88 | 20.91 | 22 | 2 |
| 3 | 64QAM | 1 | 0 | 21.08 | 21.05 | 21.02 | | |
| 3 | 64QAM | 1 | 8 | 21.07 | 21.10 | 21.08 | | |
| 3 | 64QAM | 1 | 14 | 21.02 | 21.02 | 20.99 | | |
| 3 | 64QAM | 8 | 0 | 19.99 | 19.95 | 19.95 | 21 | 3 |
| 3 | 64QAM | 8 | 4 | 20.02 | 19.96 | 19.99 | | |
| 3 | 64QAM | 8 | 7 | 19.93 | 19.97 | 19.97 | | |
| 3 | 64QAM | 15 | 0 | 19.95 | 19.87 | 19.91 | | |
| Channel | | | | 23017 | 23095 | 23173 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 699.7 | 707.5 | 715.3 | | |
| 1.4 | QPSK | 1 | 0 | 22.70 | 22.69 | 22.73 | 24 | 0 |
| 1.4 | QPSK | 1 | 3 | 22.78 | 22.76 | 22.75 | | |
| 1.4 | QPSK | 1 | 5 | 22.66 | 22.69 | 22.68 | | |
| 1.4 | QPSK | 3 | 0 | 22.76 | 22.67 | 22.73 | | |
| 1.4 | QPSK | 3 | 1 | 22.80 | 22.72 | 22.74 | | |
| 1.4 | QPSK | 3 | 3 | 22.73 | 22.69 | 22.69 | | |
| 1.4 | QPSK | 6 | 0 | 21.85 | 21.86 | 21.78 | 23 | 1 |
| 1.4 | 16QAM | 1 | 0 | 22.10 | 22.00 | 22.07 | 23 | 1 |
| 1.4 | 16QAM | 1 | 3 | 22.11 | 22.08 | 22.10 | | |
| 1.4 | 16QAM | 1 | 5 | 22.01 | 22.02 | 22.03 | | |
| 1.4 | 16QAM | 3 | 0 | 21.85 | 21.77 | 21.81 | | |
| 1.4 | 16QAM | 3 | 1 | 21.87 | 21.83 | 21.84 | | |
| 1.4 | 16QAM | 3 | 3 | 21.82 | 21.80 | 21.80 | | |
| 1.4 | 16QAM | 6 | 0 | 20.92 | 20.92 | 20.90 | 22 | 2 |
| 1.4 | 64QAM | 1 | 0 | 20.99 | 20.89 | 20.96 | 22 | 2 |
| 1.4 | 64QAM | 1 | 3 | 21.06 | 21.03 | 21.02 | | |
| 1.4 | 64QAM | 1 | 5 | 21.00 | 20.96 | 20.94 | | |
| 1.4 | 64QAM | 3 | 0 | 20.95 | 20.88 | 20.93 | | |
| 1.4 | 64QAM | 3 | 1 | 20.99 | 20.91 | 20.97 | | |
| 1.4 | 64QAM | 3 | 3 | 20.90 | 20.93 | 20.90 | | |
| 1.4 | 64QAM | 6 | 0 | 19.88 | 19.86 | 19.83 | 21 | 3 |



<LTE Band 13>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 23230 | | | | |
| Frequency (MHz) | | | | 782 | | | | |
| 10 | QPSK | 1 | 0 | | 22.88 | | 24 | 0 |
| 10 | QPSK | 1 | 25 | | 22.84 | | | |
| 10 | QPSK | 1 | 49 | | 22.79 | | | |
| 10 | QPSK | 25 | 0 | | 21.94 | | 23 | 1 |
| 10 | QPSK | 25 | 12 | | 21.91 | | | |
| 10 | QPSK | 25 | 25 | | 21.88 | | | |
| 10 | QPSK | 50 | 0 | | 21.93 | | 23 | 1 |
| 10 | 16QAM | 1 | 0 | | 22.12 | | | |
| 10 | 16QAM | 1 | 25 | | 22.12 | | | |
| 10 | 16QAM | 1 | 49 | | 22.17 | | 22 | 2 |
| 10 | 16QAM | 25 | 0 | | 20.94 | | | |
| 10 | 16QAM | 25 | 12 | | 20.93 | | | |
| 10 | 16QAM | 25 | 25 | | 20.97 | | 22 | 2 |
| 10 | 16QAM | 50 | 0 | | 20.91 | | | |
| 10 | 64QAM | 1 | 0 | | 21.11 | | | |
| 10 | 64QAM | 1 | 25 | | 21.14 | | 22 | 2 |
| 10 | 64QAM | 1 | 49 | | 21.05 | | | |
| 10 | 64QAM | 25 | 0 | | 19.95 | | | |
| 10 | 64QAM | 25 | 12 | | 19.97 | | 21 | 3 |
| 10 | 64QAM | 25 | 25 | | 19.99 | | | |
| 10 | 64QAM | 50 | 0 | | 19.97 | | | |
| Channel | | | | 23205 | 23230 | 23255 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 779.5 | 782 | 784.5 | | |
| 5 | QPSK | 1 | 0 | 22.79 | 22.78 | 22.80 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.83 | 22.86 | 22.82 | | |
| 5 | QPSK | 1 | 24 | 22.87 | 22.83 | 22.80 | | |
| 5 | QPSK | 12 | 0 | 21.92 | 21.93 | 21.90 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.99 | 21.94 | 21.97 | | |
| 5 | QPSK | 12 | 13 | 21.98 | 21.96 | 21.89 | | |
| 5 | QPSK | 25 | 0 | 21.92 | 21.88 | 21.93 | 23 | 1 |
| 5 | 16QAM | 1 | 0 | 22.09 | 22.07 | 22.12 | | |
| 5 | 16QAM | 1 | 12 | 22.11 | 22.11 | 22.10 | | |
| 5 | 16QAM | 1 | 24 | 22.16 | 22.13 | 22.13 | 22 | 2 |
| 5 | 16QAM | 12 | 0 | 20.96 | 20.98 | 20.94 | | |
| 5 | 16QAM | 12 | 7 | 21.00 | 20.92 | 20.96 | | |
| 5 | 16QAM | 12 | 13 | 20.99 | 20.97 | 20.96 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 21.00 | 20.92 | 20.94 | | |
| 5 | 64QAM | 1 | 0 | 21.01 | 21.05 | 21.02 | | |
| 5 | 64QAM | 1 | 12 | 21.04 | 21.08 | 21.09 | 22 | 2 |
| 5 | 64QAM | 1 | 24 | 21.08 | 21.09 | 21.10 | | |
| 5 | 64QAM | 12 | 0 | 20.03 | 20.02 | 19.95 | | |
| 5 | 64QAM | 12 | 7 | 20.04 | 19.96 | 19.99 | 21 | 3 |
| 5 | 64QAM | 12 | 13 | 20.04 | 19.99 | 19.96 | | |
| 5 | 64QAM | 25 | 0 | 20.02 | 19.92 | 19.98 | | |



<LTE Band 17>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 23780 | 23790 | 23800 | | |
| Frequency (MHz) | | | | 709 | 710 | 711 | | |
| 10 | QPSK | 1 | 0 | 22.74 | 22.81 | 22.64 | 24 | 0 |
| 10 | QPSK | 1 | 25 | 22.67 | 22.70 | 22.67 | | |
| 10 | QPSK | 1 | 49 | 22.76 | 22.74 | 22.73 | | |
| 10 | QPSK | 25 | 0 | 21.74 | 21.84 | 21.81 | 23 | 1 |
| 10 | QPSK | 25 | 12 | 21.81 | 21.77 | 21.76 | | |
| 10 | QPSK | 25 | 25 | 21.83 | 21.82 | 21.82 | | |
| 10 | QPSK | 50 | 0 | 21.88 | 21.82 | 21.81 | 23 | 1 |
| 10 | 16QAM | 1 | 0 | 22.06 | 22.00 | 21.97 | | |
| 10 | 16QAM | 1 | 25 | 22.08 | 22.04 | 22.06 | | |
| 10 | 16QAM | 1 | 49 | 22.14 | 22.16 | 22.11 | 22 | 2 |
| 10 | 16QAM | 25 | 0 | 20.76 | 20.80 | 20.79 | | |
| 10 | 16QAM | 25 | 12 | 20.92 | 20.86 | 20.84 | | |
| 10 | 16QAM | 25 | 25 | 20.85 | 20.88 | 20.90 | 22 | 2 |
| 10 | 16QAM | 50 | 0 | 20.91 | 20.82 | 20.81 | | |
| 10 | 64QAM | 1 | 0 | 20.96 | 20.84 | 20.88 | | |
| 10 | 64QAM | 1 | 25 | 21.02 | 21.00 | 21.02 | 22 | 2 |
| 10 | 64QAM | 1 | 49 | 21.03 | 21.07 | 21.01 | | |
| 10 | 64QAM | 25 | 0 | 19.81 | 19.80 | 19.83 | | |
| 10 | 64QAM | 25 | 12 | 19.96 | 19.89 | 19.89 | 21 | 3 |
| 10 | 64QAM | 25 | 25 | 19.97 | 19.95 | 19.96 | | |
| 10 | 64QAM | 50 | 0 | 19.94 | 19.84 | 19.84 | | |
| Channel | | | | 23755 | 23790 | 23825 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 706.5 | 710 | 713.5 | | |
| 5 | QPSK | 1 | 0 | 22.68 | 22.67 | 22.71 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.77 | 22.76 | 22.76 | | |
| 5 | QPSK | 1 | 24 | 22.79 | 22.78 | 22.72 | | |
| 5 | QPSK | 12 | 0 | 21.84 | 21.82 | 21.81 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.91 | 21.89 | 21.89 | | |
| 5 | QPSK | 12 | 13 | 21.91 | 21.90 | 21.87 | | |
| 5 | QPSK | 25 | 0 | 21.88 | 21.80 | 21.83 | 23 | 1 |
| 5 | 16QAM | 1 | 0 | 22.02 | 22.01 | 22.00 | | |
| 5 | 16QAM | 1 | 12 | 22.07 | 22.04 | 22.09 | | |
| 5 | 16QAM | 1 | 24 | 22.12 | 22.17 | 22.13 | 22 | 2 |
| 5 | 16QAM | 12 | 0 | 20.88 | 20.85 | 20.87 | | |
| 5 | 16QAM | 12 | 7 | 20.91 | 20.91 | 20.95 | | |
| 5 | 16QAM | 12 | 13 | 20.93 | 20.90 | 20.89 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 20.91 | 20.81 | 20.81 | | |
| 5 | 64QAM | 1 | 0 | 20.98 | 20.93 | 20.92 | | |
| 5 | 64QAM | 1 | 12 | 21.02 | 20.98 | 21.00 | 22 | 2 |
| 5 | 64QAM | 1 | 24 | 21.09 | 21.05 | 21.04 | | |
| 5 | 64QAM | 12 | 0 | 19.90 | 19.88 | 19.88 | | |
| 5 | 64QAM | 12 | 7 | 20.00 | 19.96 | 19.96 | 21 | 3 |
| 5 | 64QAM | 12 | 13 | 19.98 | 19.98 | 19.94 | | |
| 5 | 64QAM | 25 | 0 | 19.93 | 19.84 | 19.87 | | |



<LTE Band 25>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------------------|----------|
| Channel | | | | 26140 | 26340 | 26590 | | | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1905 | | | | |
| 20 | QPSK | 1 | 0 | 23.15 | 22.99 | 23.08 | | | | |
| 20 | QPSK | 1 | 49 | 22.97 | 22.95 | 23.05 | 24 | 0 | | |
| 20 | QPSK | 1 | 99 | 22.90 | 22.96 | 23.07 | | | | |
| 20 | QPSK | 50 | 0 | 22.16 | 22.13 | 22.14 | | | | |
| 20 | QPSK | 50 | 24 | 22.14 | 22.10 | 22.08 | 23 | 1 | | |
| 20 | QPSK | 50 | 50 | 22.05 | 22.07 | 22.13 | | | | |
| 20 | QPSK | 100 | 0 | 22.17 | 22.11 | 22.12 | | | | |
| 20 | 16QAM | 1 | 0 | 22.42 | 22.36 | 22.38 | 23 | 1 | | |
| 20 | 16QAM | 1 | 49 | 22.36 | 22.33 | 22.42 | | | | |
| 20 | 16QAM | 1 | 99 | 22.25 | 22.31 | 22.41 | | | | |
| 20 | 16QAM | 50 | 0 | 21.19 | 21.05 | 21.18 | 22 | 2 | | |
| 20 | 16QAM | 50 | 24 | 21.13 | 21.12 | 21.20 | | | | |
| 20 | 16QAM | 50 | 50 | 21.07 | 21.08 | 21.24 | | | | |
| 20 | 16QAM | 100 | 0 | 21.12 | 21.09 | 21.17 | 22 | 2 | | |
| 20 | 64QAM | 1 | 0 | 21.26 | 21.20 | 21.25 | | | | |
| 20 | 64QAM | 1 | 49 | 21.21 | 21.14 | 21.11 | | | | |
| 20 | 64QAM | 1 | 99 | 21.13 | 21.23 | 20.87 | 21 | 3 | | |
| 20 | 64QAM | 50 | 0 | 20.20 | 20.07 | 20.13 | | | | |
| 20 | 64QAM | 50 | 24 | 20.18 | 20.13 | 19.98 | | | | |
| 20 | 64QAM | 50 | 50 | 20.10 | 20.08 | 19.86 | 21 | 3 | | |
| 20 | 64QAM | 100 | 0 | 20.13 | 20.10 | 19.75 | | | | |
| Channel | | | | 26115 | 26340 | 26615 | | | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1907.5 | 24 | 0 | | |
| 15 | QPSK | 1 | 0 | 23.11 | 23.00 | 23.10 | | | | |
| 15 | QPSK | 1 | 37 | 23.03 | 22.94 | 23.14 | | | | |
| 15 | QPSK | 1 | 74 | 23.00 | 22.94 | 23.12 | 23 | 1 | | |
| 15 | QPSK | 36 | 0 | 22.18 | 22.12 | 22.19 | | | | |
| 15 | QPSK | 36 | 20 | 22.15 | 22.11 | 22.20 | | | | |
| 15 | QPSK | 36 | 39 | 22.07 | 22.05 | 22.23 | 23 | 1 | | |
| 15 | QPSK | 75 | 0 | 22.13 | 22.07 | 22.18 | | | | |
| 15 | 16QAM | 1 | 0 | 22.37 | 22.32 | 22.35 | | | | |
| 15 | 16QAM | 1 | 37 | 22.33 | 22.29 | 22.45 | 22 | 2 | | |
| 15 | 16QAM | 1 | 74 | 22.29 | 22.24 | 22.42 | | | | |
| 15 | 16QAM | 36 | 0 | 21.20 | 21.14 | 21.21 | | | | |
| 15 | 16QAM | 36 | 20 | 21.16 | 21.10 | 21.19 | 22 | 2 | | |
| 15 | 16QAM | 36 | 39 | 21.06 | 21.06 | 21.25 | | | | |
| 15 | 16QAM | 75 | 0 | 21.13 | 21.09 | 21.19 | | | | |
| 15 | 64QAM | 1 | 0 | 21.27 | 21.26 | 21.02 | 22 | 2 | | |
| 15 | 64QAM | 1 | 37 | 21.29 | 21.23 | 20.91 | | | | |
| 15 | 64QAM | 1 | 74 | 21.19 | 21.22 | 20.74 | | | | |
| 15 | 64QAM | 36 | 0 | 20.26 | 20.18 | 19.98 | 21 | 3 | | |
| 15 | 64QAM | 36 | 20 | 20.21 | 20.14 | 19.97 | | | | |
| 15 | 64QAM | 36 | 39 | 20.11 | 20.08 | 19.86 | | | | |
| 15 | 64QAM | 75 | 0 | 20.14 | 20.10 | 19.72 | 21 | 3 | | |
| Channel | | | | 26090 | 26340 | 26640 | | | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1855 | 1880 | 1910 | | | 24 | 0 |
| 10 | QPSK | 1 | 0 | 22.83 | 22.70 | 22.90 | | | | |
| 10 | QPSK | 1 | 25 | 22.77 | 22.69 | 22.91 | | | | |
| 10 | QPSK | 1 | 49 | 22.73 | 22.74 | 22.91 | 23 | 1 | | |
| 10 | QPSK | 25 | 0 | 21.91 | 21.85 | 21.95 | | | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 21.93 | 21.89 | 22.00 | | |
| 10 | QPSK | 25 | 25 | 21.90 | 21.87 | 22.07 | | |
| 10 | QPSK | 50 | 0 | 21.91 | 21.87 | 21.98 | | |
| 10 | 16QAM | 1 | 0 | 22.23 | 22.10 | 22.25 | 23 | 1 |
| 10 | 16QAM | 1 | 25 | 22.14 | 22.07 | 22.30 | | |
| 10 | 16QAM | 1 | 49 | 22.09 | 22.08 | 22.25 | | |
| 10 | 16QAM | 25 | 0 | 20.92 | 20.87 | 20.97 | 22 | 2 |
| 10 | 16QAM | 25 | 12 | 20.93 | 20.90 | 21.02 | | |
| 10 | 16QAM | 25 | 25 | 20.91 | 20.90 | 21.05 | | |
| 10 | 16QAM | 50 | 0 | 20.95 | 20.88 | 21.00 | | |
| 10 | 64QAM | 1 | 0 | 21.16 | 20.97 | 21.02 | 22 | 2 |
| 10 | 64QAM | 1 | 25 | 21.06 | 21.06 | 20.96 | | |
| 10 | 64QAM | 1 | 49 | 21.07 | 21.02 | 20.75 | | |
| 10 | 64QAM | 25 | 0 | 19.95 | 19.90 | 19.99 | 21 | 3 |
| 10 | 64QAM | 25 | 12 | 19.99 | 19.93 | 20.00 | | |
| 10 | 64QAM | 25 | 25 | 19.95 | 19.91 | 19.87 | | |
| 10 | 64QAM | 50 | 0 | 19.96 | 19.90 | 19.75 | | |
| Channel | | | | 26065 | 26340 | 26665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1912.5 | | |
| 5 | QPSK | 1 | 0 | 22.81 | 22.72 | 22.94 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.85 | 22.76 | 22.98 | | |
| 5 | QPSK | 1 | 24 | 22.80 | 22.78 | 22.99 | | |
| 5 | QPSK | 12 | 0 | 21.87 | 21.82 | 21.97 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.97 | 21.90 | 22.05 | | |
| 5 | QPSK | 12 | 13 | 21.94 | 21.88 | 22.04 | | |
| 5 | QPSK | 25 | 0 | 21.90 | 21.83 | 22.02 | | |
| 5 | 16QAM | 1 | 0 | 22.18 | 22.12 | 22.21 | 23 | 1 |
| 5 | 16QAM | 1 | 12 | 22.12 | 22.04 | 22.21 | | |
| 5 | 16QAM | 1 | 24 | 22.19 | 22.10 | 22.23 | | |
| 5 | 16QAM | 12 | 0 | 20.91 | 20.83 | 20.99 | 22 | 2 |
| 5 | 16QAM | 12 | 7 | 20.96 | 20.91 | 21.05 | | |
| 5 | 16QAM | 12 | 13 | 20.97 | 20.91 | 21.06 | | |
| 5 | 16QAM | 25 | 0 | 20.95 | 20.86 | 21.03 | | |
| 5 | 64QAM | 1 | 0 | 21.10 | 21.03 | 21.06 | 22 | 2 |
| 5 | 64QAM | 1 | 12 | 21.01 | 20.91 | 20.93 | | |
| 5 | 64QAM | 1 | 24 | 21.05 | 20.97 | 20.76 | | |
| 5 | 64QAM | 12 | 0 | 19.98 | 19.91 | 20.03 | 21 | 3 |
| 5 | 64QAM | 12 | 7 | 20.02 | 19.95 | 19.98 | | |
| 5 | 64QAM | 12 | 13 | 20.04 | 19.97 | 19.84 | | |
| 5 | 64QAM | 25 | 0 | 19.95 | 19.90 | 19.74 | | |
| Channel | | | | 26055 | 26340 | 26675 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1851.5 | 1880 | 1913.5 | | |
| 3 | QPSK | 1 | 0 | 22.63 | 22.64 | 22.89 | 24 | 0 |
| 3 | QPSK | 1 | 8 | 22.84 | 22.64 | 22.92 | | |
| 3 | QPSK | 1 | 14 | 22.65 | 22.67 | 22.88 | | |
| 3 | QPSK | 8 | 0 | 21.82 | 21.70 | 21.89 | 23 | 1 |
| 3 | QPSK | 8 | 4 | 21.90 | 21.85 | 21.89 | | |
| 3 | QPSK | 8 | 7 | 21.84 | 21.73 | 21.93 | | |
| 3 | QPSK | 15 | 0 | 21.74 | 21.76 | 21.96 | 23 | 1 |
| 3 | 16QAM | 1 | 0 | 22.05 | 22.08 | 22.07 | | |
| 3 | 16QAM | 1 | 8 | 22.06 | 21.88 | 22.19 | | |
| 3 | 16QAM | 1 | 14 | 22.16 | 22.01 | 22.20 | 22 | 2 |
| 3 | 16QAM | 8 | 0 | 20.81 | 20.70 | 20.87 | | |
| 3 | 16QAM | 8 | 4 | 20.89 | 20.76 | 20.90 | | |
| 3 | 16QAM | 8 | 7 | 20.95 | 20.87 | 20.93 | | |
| 3 | 16QAM | 15 | 0 | 20.87 | 20.84 | 20.96 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 20.98 | 20.99 | 21.00 | 22 | 2 |
| 3 | 64QAM | 1 | 8 | 20.90 | 20.82 | 20.84 | | |
| 3 | 64QAM | 1 | 14 | 20.88 | 20.86 | 20.65 | | |
| 3 | 64QAM | 8 | 0 | 19.87 | 19.89 | 19.92 | 21 | 3 |
| 3 | 64QAM | 8 | 4 | 19.92 | 19.87 | 19.85 | | |
| 3 | 64QAM | 8 | 7 | 19.94 | 19.91 | 19.74 | | |
| 3 | 64QAM | 15 | 0 | 19.81 | 19.78 | 19.65 | | |
| Channel | | | | 26047 | 26340 | 26683 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1850.7 | 1880 | 1914.3 | | |
| 1.4 | QPSK | 1 | 0 | 23.04 | 22.98 | 22.99 | 24 | 0 |
| 1.4 | QPSK | 1 | 3 | 22.88 | 22.85 | 23.08 | | |
| 1.4 | QPSK | 1 | 5 | 22.83 | 22.86 | 22.98 | | |
| 1.4 | QPSK | 3 | 0 | 22.15 | 22.00 | 22.04 | | |
| 1.4 | QPSK | 3 | 1 | 22.08 | 22.05 | 22.15 | | |
| 1.4 | QPSK | 3 | 3 | 22.04 | 22.02 | 22.16 | | |
| 1.4 | QPSK | 6 | 0 | 22.05 | 22.00 | 22.11 | 23 | 1 |
| 1.4 | 16QAM | 1 | 0 | 22.41 | 22.33 | 22.37 | 23 | 1 |
| 1.4 | 16QAM | 1 | 3 | 22.36 | 22.33 | 22.34 | | |
| 1.4 | 16QAM | 1 | 5 | 22.19 | 22.30 | 22.38 | | |
| 1.4 | 16QAM | 3 | 0 | 21.12 | 21.03 | 21.08 | | |
| 1.4 | 16QAM | 3 | 1 | 21.08 | 21.04 | 21.14 | | |
| 1.4 | 16QAM | 3 | 3 | 21.07 | 21.06 | 21.17 | | |
| 1.4 | 16QAM | 6 | 0 | 21.10 | 21.01 | 21.15 | 22 | 2 |
| 1.4 | 64QAM | 1 | 0 | 21.25 | 21.18 | 21.21 | 22 | 2 |
| 1.4 | 64QAM | 1 | 3 | 21.19 | 21.08 | 21.06 | | |
| 1.4 | 64QAM | 1 | 5 | 21.09 | 21.22 | 20.87 | | |
| 1.4 | 64QAM | 3 | 0 | 20.19 | 20.11 | 20.10 | | |
| 1.4 | 64QAM | 3 | 1 | 20.10 | 20.13 | 20.07 | | |
| 1.4 | 64QAM | 3 | 3 | 20.05 | 20.08 | 20.02 | | |
| 1.4 | 64QAM | 6 | 0 | 20.10 | 20.01 | 19.65 | 21 | 3 |



<LTE Band 26>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 26765 | 26865 | 26965 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 15 | QPSK | 1 | 0 | 23.06 | 23.02 | 23.07 | | |
| 15 | QPSK | 1 | 37 | 22.97 | 23.06 | 23.04 | 24 | 0 |
| 15 | QPSK | 1 | 74 | 23.04 | 23.08 | 22.99 | | |
| 15 | QPSK | 36 | 0 | 22.15 | 22.19 | 22.27 | | |
| 15 | QPSK | 36 | 20 | 22.20 | 22.17 | 22.25 | 23 | 1 |
| 15 | QPSK | 36 | 39 | 22.22 | 22.28 | 22.24 | | |
| 15 | QPSK | 75 | 0 | 22.16 | 22.23 | 22.19 | | |
| 15 | 16QAM | 1 | 0 | 22.37 | 22.32 | 22.41 | 23 | 1 |
| 15 | 16QAM | 1 | 37 | 22.30 | 22.37 | 22.42 | | |
| 15 | 16QAM | 1 | 74 | 22.35 | 22.36 | 22.25 | | |
| 15 | 16QAM | 36 | 0 | 21.14 | 21.21 | 21.29 | 22 | 2 |
| 15 | 16QAM | 36 | 20 | 21.18 | 21.19 | 21.28 | | |
| 15 | 16QAM | 36 | 39 | 21.23 | 21.23 | 21.23 | | |
| 15 | 16QAM | 75 | 0 | 21.21 | 21.19 | 21.21 | 22 | 2 |
| 15 | 64QAM | 1 | 0 | 21.24 | 21.21 | 21.24 | | |
| 15 | 64QAM | 1 | 37 | 21.24 | 21.29 | 21.33 | | |
| 15 | 64QAM | 1 | 74 | 21.25 | 21.26 | 21.21 | 22 | 2 |
| 15 | 64QAM | 36 | 0 | 20.17 | 20.26 | 20.31 | | |
| 15 | 64QAM | 36 | 20 | 20.22 | 20.18 | 20.36 | | |
| 15 | 64QAM | 36 | 39 | 20.28 | 20.28 | 20.29 | 21 | 3 |
| 15 | 64QAM | 75 | 0 | 20.20 | 20.18 | 20.22 | | |
| Channel | | | | 26740 | 26865 | 26990 | | |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 0 | 22.89 | 22.85 | 22.95 | 24 | 0 |
| 10 | QPSK | 1 | 25 | 22.77 | 22.87 | 22.99 | | |
| 10 | QPSK | 1 | 49 | 22.84 | 22.93 | 22.96 | | |
| 10 | QPSK | 25 | 0 | 21.99 | 21.96 | 22.02 | 23 | 1 |
| 10 | QPSK | 25 | 12 | 21.99 | 21.99 | 22.02 | | |
| 10 | QPSK | 25 | 25 | 21.89 | 22.00 | 22.00 | | |
| 10 | QPSK | 50 | 0 | 21.97 | 21.96 | 21.99 | 23 | 1 |
| 10 | 16QAM | 1 | 0 | 22.29 | 22.20 | 22.41 | | |
| 10 | 16QAM | 1 | 25 | 22.14 | 22.23 | 22.38 | | |
| 10 | 16QAM | 1 | 49 | 22.22 | 22.32 | 22.33 | 22 | 2 |
| 10 | 16QAM | 25 | 0 | 20.99 | 20.96 | 21.07 | | |
| 10 | 16QAM | 25 | 12 | 20.99 | 20.97 | 21.02 | | |
| 10 | 16QAM | 25 | 25 | 20.93 | 20.98 | 20.97 | 22 | 2 |
| 10 | 16QAM | 50 | 0 | 20.94 | 20.93 | 21.01 | | |
| 10 | 64QAM | 1 | 0 | 21.22 | 21.05 | 21.23 | | |
| 10 | 64QAM | 1 | 25 | 21.10 | 21.17 | 21.21 | 22 | 2 |
| 10 | 64QAM | 1 | 49 | 21.18 | 21.23 | 21.16 | | |
| 10 | 64QAM | 25 | 0 | 20.03 | 20.02 | 20.08 | | |
| 10 | 64QAM | 25 | 12 | 20.00 | 20.01 | 20.07 | 21 | 3 |
| 10 | 64QAM | 25 | 25 | 19.95 | 20.03 | 20.03 | | |
| 10 | 64QAM | 50 | 0 | 20.00 | 19.99 | 20.04 | | |
| Channel | | | | 26715 | 26865 | 27015 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 0 | 22.91 | 22.85 | 22.96 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.88 | 22.92 | 22.95 | | |
| 5 | QPSK | 1 | 24 | 22.78 | 22.91 | 22.85 | | |
| 5 | QPSK | 12 | 0 | 22.00 | 21.99 | 22.03 | 23 | 1 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

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|-----------------|-------|----|----|-------|-------|-------|---------------------|----------|
| 5 | QPSK | 12 | 7 | 22.02 | 22.03 | 22.03 | | |
| 5 | QPSK | 12 | 13 | 21.92 | 21.97 | 21.94 | | |
| 5 | QPSK | 25 | 0 | 21.94 | 21.96 | 21.98 | | |
| 5 | 16QAM | 1 | 0 | 22.26 | 22.18 | 22.34 | 23 | 1 |
| 5 | 16QAM | 1 | 12 | 22.20 | 22.25 | 22.25 | | |
| 5 | 16QAM | 1 | 24 | 22.15 | 22.23 | 22.22 | | |
| 5 | 16QAM | 12 | 0 | 21.06 | 20.98 | 21.06 | 22 | 2 |
| 5 | 16QAM | 12 | 7 | 21.04 | 21.05 | 21.06 | | |
| 5 | 16QAM | 12 | 13 | 20.91 | 21.00 | 20.95 | | |
| 5 | 16QAM | 25 | 0 | 20.97 | 20.95 | 21.00 | | |
| 5 | 64QAM | 1 | 0 | 21.18 | 21.15 | 21.27 | 22 | 2 |
| 5 | 64QAM | 1 | 12 | 21.11 | 21.21 | 21.17 | | |
| 5 | 64QAM | 1 | 24 | 21.07 | 21.22 | 21.15 | | |
| 5 | 64QAM | 12 | 0 | 20.10 | 20.07 | 20.09 | 21 | 3 |
| 5 | 64QAM | 12 | 7 | 20.05 | 20.09 | 20.05 | | |
| 5 | 64QAM | 12 | 13 | 20.01 | 20.05 | 20.00 | | |
| 5 | 64QAM | 25 | 0 | 19.99 | 19.99 | 20.03 | | |
| Channel | | | | 26705 | 26865 | 27025 | | |
| Frequency (MHz) | | | | 815.5 | 831.5 | 847.5 | | |
| 3 | QPSK | 1 | 0 | 22.91 | 22.90 | 22.98 | 24 | 0 |
| 3 | QPSK | 1 | 8 | 22.95 | 22.95 | 22.98 | | |
| 3 | QPSK | 1 | 14 | 22.82 | 22.91 | 22.87 | | |
| 3 | QPSK | 8 | 0 | 22.00 | 21.99 | 21.99 | 23 | 1 |
| 3 | QPSK | 8 | 4 | 22.03 | 22.05 | 21.96 | | |
| 3 | QPSK | 8 | 7 | 21.91 | 21.98 | 21.94 | | |
| 3 | QPSK | 15 | 0 | 22.01 | 21.94 | 21.97 | | |
| 3 | 16QAM | 1 | 0 | 22.23 | 22.17 | 22.28 | | |
| 3 | 16QAM | 1 | 8 | 22.29 | 22.31 | 22.34 | 23 | 1 |
| 3 | 16QAM | 1 | 14 | 22.14 | 22.23 | 22.20 | | |
| 3 | 16QAM | 8 | 0 | 21.10 | 21.00 | 21.04 | | |
| 3 | 16QAM | 8 | 4 | 21.05 | 21.12 | 21.06 | 22 | 2 |
| 3 | 16QAM | 8 | 7 | 20.98 | 21.04 | 20.98 | | |
| 3 | 16QAM | 15 | 0 | 21.04 | 21.00 | 20.99 | | |
| 3 | 64QAM | 1 | 0 | 21.16 | 21.12 | 21.20 | | |
| 3 | 64QAM | 1 | 8 | 21.18 | 21.24 | 21.20 | | |
| 3 | 64QAM | 1 | 14 | 21.08 | 21.23 | 21.08 | 22 | 2 |
| 3 | 64QAM | 8 | 0 | 20.08 | 20.03 | 20.09 | | |
| 3 | 64QAM | 8 | 4 | 20.12 | 20.12 | 20.08 | | |
| 3 | 64QAM | 8 | 7 | 19.97 | 20.06 | 19.98 | | |
| 3 | 64QAM | 15 | 0 | 20.05 | 19.98 | 20.03 | | |
| Channel | | | | 26697 | 26865 | 27033 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 814.7 | 831.5 | 848.3 | | |
| 1.4 | QPSK | 1 | 0 | 22.86 | 22.83 | 22.81 | 24 | 0 |
| 1.4 | QPSK | 1 | 3 | 22.91 | 22.91 | 22.85 | | |
| 1.4 | QPSK | 1 | 5 | 22.83 | 22.83 | 22.81 | | |
| 1.4 | QPSK | 3 | 0 | 22.89 | 22.85 | 22.85 | | |
| 1.4 | QPSK | 3 | 1 | 22.90 | 22.85 | 22.84 | | |
| 1.4 | QPSK | 3 | 3 | 22.86 | 22.84 | 22.83 | 23 | 1 |
| 1.4 | 16QAM | 6 | 0 | 21.97 | 21.96 | 21.91 | | |
| 1.4 | 16QAM | 1 | 0 | 22.17 | 22.12 | 22.17 | | |
| 1.4 | 16QAM | 1 | 3 | 22.18 | 22.21 | 22.18 | 23 | 1 |
| 1.4 | 16QAM | 1 | 5 | 22.10 | 22.17 | 22.14 | | |
| 1.4 | 16QAM | 3 | 0 | 21.97 | 21.91 | 21.96 | | |
| 1.4 | 16QAM | 3 | 1 | 22.01 | 21.98 | 21.96 | | |
| 1.4 | 16QAM | 3 | 3 | 21.92 | 21.95 | 21.89 | | |
| 1.4 | 16QAM | 6 | 0 | 21.02 | 21.04 | 20.95 | 22 | 2 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----|-------|---|---|-------|-------|-------|----|---|
| 1.4 | 64QAM | 1 | 0 | 21.13 | 21.04 | 21.09 | 22 | 2 |
| 1.4 | 64QAM | 1 | 3 | 21.16 | 21.18 | 21.16 | | |
| 1.4 | 64QAM | 1 | 5 | 21.06 | 21.09 | 21.05 | | |
| 1.4 | 64QAM | 3 | 0 | 21.07 | 21.02 | 21.03 | | |
| 1.4 | 64QAM | 3 | 1 | 21.13 | 21.05 | 21.11 | | |
| 1.4 | 64QAM | 3 | 3 | 21.06 | 21.09 | 21.03 | | |
| 1.4 | 64QAM | 6 | 0 | 19.95 | 20.01 | 19.92 | 21 | 3 |



<LTE Band 30>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 27710 | | | 24 | 0 |
| Frequency (MHz) | | | | 2310 | | | | |
| 10 | QPSK | 1 | 0 | | 22.73 | | 24 | 0 |
| 10 | QPSK | 1 | 25 | | 22.57 | | | |
| 10 | QPSK | 1 | 49 | | 22.62 | | | |
| 10 | QPSK | 25 | 0 | | 21.77 | | 23 | 1 |
| 10 | QPSK | 25 | 12 | | 21.73 | | | |
| 10 | QPSK | 25 | 25 | | 21.72 | | | |
| 10 | QPSK | 50 | 0 | | 21.73 | | 23 | 1 |
| 10 | 16QAM | 1 | 0 | | 21.99 | | | |
| 10 | 16QAM | 1 | 25 | | 22.03 | | | |
| 10 | 16QAM | 1 | 49 | | 22.05 | | 22 | 2 |
| 10 | 16QAM | 25 | 0 | | 20.69 | | | |
| 10 | 16QAM | 25 | 12 | | 20.81 | | | |
| 10 | 16QAM | 25 | 25 | | 20.81 | | 22 | 2 |
| 10 | 16QAM | 50 | 0 | | 20.75 | | | |
| 10 | 64QAM | 1 | 0 | | 20.83 | | | |
| 10 | 64QAM | 1 | 25 | | 20.93 | | 22 | 2 |
| 10 | 64QAM | 1 | 49 | | 20.96 | | | |
| 10 | 64QAM | 25 | 0 | | 19.73 | | | |
| 10 | 64QAM | 25 | 12 | | 19.87 | | 21 | 3 |
| 10 | 64QAM | 25 | 25 | | 19.88 | | | |
| 10 | 64QAM | 50 | 0 | | 19.78 | | | |
| Channel | | | | 27685 | 27710 | 27735 | 24 | 0 |
| Frequency (MHz) | | | | 2307.5 | 2310 | 2312.5 | | |
| 5 | QPSK | 1 | 0 | 22.54 | 22.57 | 22.59 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.63 | 22.66 | 22.67 | | |
| 5 | QPSK | 1 | 24 | 22.60 | 22.63 | 22.65 | | |
| 5 | QPSK | 12 | 0 | 21.68 | 21.69 | 21.73 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.82 | 21.81 | 21.85 | | |
| 5 | QPSK | 12 | 13 | 21.79 | 21.82 | 21.86 | | |
| 5 | QPSK | 25 | 0 | 21.77 | 21.78 | 21.73 | 23 | 1 |
| 5 | 16QAM | 1 | 0 | 21.94 | 21.91 | 21.92 | | |
| 5 | 16QAM | 1 | 12 | 21.98 | 22.02 | 22.05 | | |
| 5 | 16QAM | 1 | 24 | 22.07 | 22.07 | 22.11 | 22 | 2 |
| 5 | 16QAM | 12 | 0 | 20.74 | 20.75 | 20.76 | | |
| 5 | 16QAM | 12 | 7 | 20.87 | 20.85 | 20.87 | | |
| 5 | 16QAM | 12 | 13 | 20.84 | 20.83 | 20.88 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 20.82 | 20.80 | 20.76 | | |
| 5 | 64QAM | 1 | 0 | 20.79 | 20.84 | 20.86 | | |
| 5 | 64QAM | 1 | 12 | 20.96 | 20.87 | 20.91 | 22 | 2 |
| 5 | 64QAM | 1 | 24 | 21.06 | 20.98 | 20.96 | | |
| 5 | 64QAM | 12 | 0 | 19.75 | 19.76 | 19.81 | | |
| 5 | 64QAM | 12 | 7 | 19.88 | 19.88 | 19.91 | 21 | 3 |
| 5 | 64QAM | 12 | 13 | 19.88 | 19.89 | 19.93 | | |
| 5 | 64QAM | 25 | 0 | 19.81 | 19.81 | 19.79 | | |



<LTE Band 66>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 132072 | 132322 | 132572 | | |
| Frequency (MHz) | | | | 1720 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 23.17 | 23.18 | 23.05 | | |
| 20 | QPSK | 1 | 49 | 23.01 | 23.05 | 22.89 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 22.98 | 22.96 | 22.74 | | |
| 20 | QPSK | 50 | 0 | 22.13 | 22.14 | 22.04 | | |
| 20 | QPSK | 50 | 24 | 22.09 | 22.11 | 22.01 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.12 | 22.12 | 21.94 | | |
| 20 | QPSK | 100 | 0 | 22.07 | 22.09 | 22.03 | | |
| 20 | 16QAM | 1 | 0 | 22.49 | 22.53 | 22.42 | 23 | 1 |
| 20 | 16QAM | 1 | 49 | 22.41 | 22.43 | 22.27 | | |
| 20 | 16QAM | 1 | 99 | 22.31 | 22.33 | 22.15 | | |
| 20 | 16QAM | 50 | 0 | 21.15 | 21.15 | 21.03 | 22 | 2 |
| 20 | 16QAM | 50 | 24 | 21.22 | 21.15 | 21.06 | | |
| 20 | 16QAM | 50 | 50 | 21.16 | 21.14 | 20.96 | | |
| 20 | 16QAM | 100 | 0 | 21.16 | 21.09 | 21.03 | 22 | 2 |
| 20 | 64QAM | 1 | 0 | 21.93 | 21.95 | 21.94 | | |
| 20 | 64QAM | 1 | 49 | 21.84 | 21.91 | 21.77 | | |
| 20 | 64QAM | 1 | 99 | 21.75 | 21.86 | 21.65 | 21 | 3 |
| 20 | 64QAM | 50 | 0 | 20.71 | 20.75 | 20.63 | | |
| 20 | 64QAM | 50 | 24 | 20.79 | 20.73 | 20.65 | | |
| 20 | 64QAM | 50 | 50 | 20.73 | 20.73 | 20.56 | 21 | 3 |
| 20 | 64QAM | 100 | 0 | 20.77 | 20.68 | 20.63 | | |
| Channel | | | | 132047 | 132322 | 132597 | | |
| Frequency (MHz) | | | | 1717.5 | 1745 | 1772.5 | | |
| 15 | QPSK | 1 | 0 | 23.07 | 23.08 | 23.00 | 24 | 0 |
| 15 | QPSK | 1 | 37 | 23.03 | 23.05 | 22.89 | | |
| 15 | QPSK | 1 | 74 | 23.04 | 22.99 | 22.79 | | |
| 15 | QPSK | 36 | 0 | 22.10 | 22.12 | 21.95 | 23 | 1 |
| 15 | QPSK | 36 | 20 | 22.17 | 22.11 | 21.94 | | |
| 15 | QPSK | 36 | 39 | 22.13 | 22.12 | 21.92 | | |
| 15 | QPSK | 75 | 0 | 22.17 | 22.09 | 21.91 | 23 | 1 |
| 15 | 16QAM | 1 | 0 | 22.38 | 22.42 | 22.34 | | |
| 15 | 16QAM | 1 | 37 | 22.38 | 22.35 | 22.19 | | |
| 15 | 16QAM | 1 | 74 | 22.32 | 22.35 | 22.13 | 22 | 2 |
| 15 | 16QAM | 36 | 0 | 21.11 | 21.13 | 21.00 | | |
| 15 | 16QAM | 36 | 20 | 21.19 | 21.13 | 20.95 | | |
| 15 | 16QAM | 36 | 39 | 21.12 | 21.12 | 20.95 | 22 | 2 |
| 15 | 16QAM | 75 | 0 | 21.16 | 21.10 | 20.93 | | |
| 15 | 64QAM | 1 | 0 | 21.88 | 21.87 | 21.80 | | |
| 15 | 64QAM | 1 | 37 | 21.86 | 21.87 | 21.67 | 22 | 2 |
| 15 | 64QAM | 1 | 74 | 21.78 | 21.86 | 21.60 | | |
| 15 | 64QAM | 36 | 0 | 20.70 | 20.73 | 20.57 | | |
| 15 | 64QAM | 36 | 20 | 20.79 | 20.73 | 20.55 | 21 | 3 |
| 15 | 64QAM | 36 | 39 | 20.74 | 20.74 | 20.55 | | |
| 15 | 64QAM | 75 | 0 | 20.77 | 20.70 | 20.54 | | |
| Channel | | | | 132022 | 132322 | 132622 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1715 | 1745 | 1775 | | |
| 10 | QPSK | 1 | 0 | 22.91 | 22.85 | 22.70 | 24 | 0 |
| 10 | QPSK | 1 | 25 | 22.79 | 22.82 | 22.61 | | |
| 10 | QPSK | 1 | 49 | 22.78 | 22.76 | 22.58 | | |
| 10 | QPSK | 25 | 0 | 21.99 | 21.89 | 21.72 | 23 | 1 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 21.97 | 21.88 | 21.77 | | |
| 10 | QPSK | 25 | 25 | 21.92 | 21.90 | 21.71 | | |
| 10 | QPSK | 50 | 0 | 21.96 | 21.87 | 21.68 | | |
| 10 | 16QAM | 1 | 0 | 22.27 | 22.26 | 22.08 | 23 | 1 |
| 10 | 16QAM | 1 | 25 | 22.21 | 22.18 | 22.02 | | |
| 10 | 16QAM | 1 | 49 | 22.14 | 22.12 | 21.92 | | |
| 10 | 16QAM | 25 | 0 | 20.98 | 20.91 | 20.73 | 22 | 2 |
| 10 | 16QAM | 25 | 12 | 20.98 | 20.89 | 20.78 | | |
| 10 | 16QAM | 25 | 25 | 20.94 | 20.94 | 20.70 | | |
| 10 | 16QAM | 50 | 0 | 20.98 | 20.88 | 20.68 | | |
| 10 | 64QAM | 1 | 0 | 21.92 | 21.82 | 21.67 | 22 | 2 |
| 10 | 64QAM | 1 | 25 | 21.82 | 21.78 | 21.63 | | |
| 10 | 64QAM | 1 | 49 | 21.82 | 21.74 | 21.60 | | |
| 10 | 64QAM | 25 | 0 | 20.58 | 20.50 | 20.33 | 21 | 3 |
| 10 | 64QAM | 25 | 12 | 20.59 | 20.50 | 20.41 | | |
| 10 | 64QAM | 25 | 25 | 20.55 | 20.51 | 20.26 | | |
| 10 | 64QAM | 50 | 0 | 20.54 | 20.43 | 20.26 | | |
| Channel | | | | 131997 | 132322 | 132647 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1712.5 | 1745 | 1777.5 | | |
| 5 | QPSK | 1 | 0 | 22.89 | 22.79 | 22.66 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.89 | 22.89 | 22.68 | | |
| 5 | QPSK | 1 | 24 | 22.81 | 22.80 | 22.59 | | |
| 5 | QPSK | 12 | 0 | 21.94 | 21.88 | 21.77 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 22.02 | 21.94 | 21.77 | | |
| 5 | QPSK | 12 | 13 | 21.92 | 21.90 | 21.70 | | |
| 5 | QPSK | 25 | 0 | 21.94 | 21.87 | 21.71 | | |
| 5 | 16QAM | 1 | 0 | 22.24 | 22.14 | 22.00 | 23 | 1 |
| 5 | 16QAM | 1 | 12 | 22.21 | 22.20 | 21.97 | | |
| 5 | 16QAM | 1 | 24 | 22.15 | 22.15 | 21.95 | | |
| 5 | 16QAM | 12 | 0 | 20.98 | 20.93 | 20.76 | 22 | 2 |
| 5 | 16QAM | 12 | 7 | 21.03 | 20.97 | 20.77 | | |
| 5 | 16QAM | 12 | 13 | 20.94 | 20.95 | 20.69 | | |
| 5 | 16QAM | 25 | 0 | 20.98 | 20.91 | 20.72 | | |
| 5 | 64QAM | 1 | 0 | 21.70 | 21.63 | 21.52 | 22 | 2 |
| 5 | 64QAM | 1 | 12 | 21.67 | 21.66 | 21.42 | | |
| 5 | 64QAM | 1 | 24 | 21.68 | 21.66 | 21.39 | | |
| 5 | 64QAM | 12 | 0 | 20.56 | 20.52 | 20.33 | 21 | 3 |
| 5 | 64QAM | 12 | 7 | 20.60 | 20.54 | 20.34 | | |
| 5 | 64QAM | 12 | 13 | 20.52 | 20.52 | 20.30 | | |
| 5 | 64QAM | 25 | 0 | 20.57 | 20.50 | 20.34 | | |
| Channel | | | | 131987 | 132322 | 132657 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1711.5 | 1745 | 1778.5 | | |
| 3 | QPSK | 1 | 0 | 22.88 | 22.79 | 22.64 | 24 | 0 |
| 3 | QPSK | 1 | 8 | 22.92 | 22.87 | 22.71 | | |
| 3 | QPSK | 1 | 14 | 22.81 | 22.78 | 22.62 | | |
| 3 | QPSK | 8 | 0 | 21.95 | 21.87 | 21.70 | 23 | 1 |
| 3 | QPSK | 8 | 4 | 21.98 | 21.94 | 21.74 | | |
| 3 | QPSK | 8 | 7 | 21.94 | 21.93 | 21.65 | | |
| 3 | QPSK | 15 | 0 | 21.94 | 21.86 | 21.67 | | |
| 3 | 16QAM | 1 | 0 | 22.21 | 22.13 | 21.94 | 23 | 1 |
| 3 | 16QAM | 1 | 8 | 22.24 | 22.26 | 22.04 | | |
| 3 | 16QAM | 1 | 14 | 22.14 | 22.16 | 21.97 | | |
| 3 | 16QAM | 8 | 0 | 20.99 | 20.93 | 20.75 | 22 | 2 |
| 3 | 16QAM | 8 | 4 | 20.99 | 21.02 | 20.76 | | |
| 3 | 16QAM | 8 | 7 | 20.97 | 20.96 | 20.76 | | |
| 3 | 16QAM | 15 | 0 | 21.01 | 20.89 | 20.78 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 21.11 | 21.14 | 20.88 | 22 | 2 |
| 3 | 64QAM | 1 | 8 | 21.18 | 21.16 | 20.96 | | |
| 3 | 64QAM | 1 | 14 | 21.10 | 21.12 | 20.82 | | |
| 3 | 64QAM | 8 | 0 | 20.02 | 19.94 | 19.79 | 21 | 3 |
| 3 | 64QAM | 8 | 4 | 20.02 | 19.98 | 19.80 | | |
| 3 | 64QAM | 8 | 7 | 19.97 | 19.99 | 19.74 | | |
| 3 | 64QAM | 15 | 0 | 19.96 | 19.92 | 19.72 | | |
| Channel | | | | 131979 | 132322 | 132665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1710.7 | 1745 | 1779.3 | | |
| 1.4 | QPSK | 1 | 0 | 22.79 | 22.74 | 22.52 | 24 | 0 |
| 1.4 | QPSK | 1 | 3 | 22.84 | 22.79 | 22.61 | | |
| 1.4 | QPSK | 1 | 5 | 22.74 | 22.76 | 22.51 | | |
| 1.4 | QPSK | 3 | 0 | 22.82 | 22.80 | 22.62 | | |
| 1.4 | QPSK | 3 | 1 | 22.87 | 22.81 | 22.61 | | |
| 1.4 | QPSK | 3 | 3 | 22.83 | 22.78 | 22.55 | | |
| 1.4 | QPSK | 6 | 0 | 21.89 | 21.85 | 21.65 | 23 | 1 |
| 1.4 | 16QAM | 1 | 0 | 22.11 | 22.08 | 21.85 | 23 | 1 |
| 1.4 | 16QAM | 1 | 3 | 22.14 | 22.15 | 21.97 | | |
| 1.4 | 16QAM | 1 | 5 | 22.09 | 22.09 | 21.87 | | |
| 1.4 | 16QAM | 3 | 0 | 21.93 | 21.90 | 21.68 | | |
| 1.4 | 16QAM | 3 | 1 | 21.97 | 21.93 | 21.68 | | |
| 1.4 | 16QAM | 3 | 3 | 21.90 | 21.88 | 21.66 | | |
| 1.4 | 16QAM | 6 | 0 | 20.92 | 20.93 | 20.71 | 22 | 2 |
| 1.4 | 64QAM | 1 | 0 | 21.09 | 21.05 | 20.82 | 22 | 2 |
| 1.4 | 64QAM | 1 | 3 | 21.10 | 21.09 | 20.89 | | |
| 1.4 | 64QAM | 1 | 5 | 21.06 | 21.01 | 20.78 | | |
| 1.4 | 64QAM | 3 | 0 | 21.04 | 21.02 | 20.81 | | |
| 1.4 | 64QAM | 3 | 1 | 21.07 | 21.05 | 20.84 | | |
| 1.4 | 64QAM | 3 | 3 | 21.04 | 20.97 | 20.77 | | |
| 1.4 | 64QAM | 6 | 0 | 19.91 | 19.89 | 19.66 | 21 | 3 |



<LTE Band 71>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------------------|----------|
| Channel | | | | 133222 | 133322 | 133372 | | | | |
| Frequency (MHz) | | | | 673 | 683 | 688 | | | | |
| 20 | QPSK | 1 | 0 | 23.11 | 23.21 | 23.00 | | | | |
| 20 | QPSK | 1 | 49 | 23.01 | 22.99 | 22.95 | 24 | 0 | | |
| 20 | QPSK | 1 | 99 | 22.84 | 22.88 | 22.87 | | | | |
| 20 | QPSK | 50 | 0 | 22.87 | 22.76 | 22.70 | | | | |
| 20 | QPSK | 50 | 24 | 22.86 | 22.75 | 22.74 | 23 | 1 | | |
| 20 | QPSK | 50 | 50 | 22.75 | 22.68 | 22.66 | | | | |
| 20 | QPSK | 100 | 0 | 22.82 | 22.71 | 22.73 | | | | |
| 20 | 16QAM | 1 | 0 | 22.88 | 22.99 | 22.99 | 23 | 1 | | |
| 20 | 16QAM | 1 | 49 | 22.76 | 22.75 | 22.95 | | | | |
| 20 | 16QAM | 1 | 99 | 22.92 | 22.88 | 22.85 | | | | |
| 20 | 16QAM | 50 | 0 | 21.91 | 21.81 | 21.80 | 22 | 2 | | |
| 20 | 16QAM | 50 | 24 | 21.99 | 21.78 | 21.90 | | | | |
| 20 | 16QAM | 50 | 50 | 21.94 | 21.90 | 21.76 | | | | |
| 20 | 16QAM | 100 | 0 | 21.74 | 21.73 | 21.79 | 22 | 2 | | |
| 20 | 64QAM | 1 | 0 | 21.93 | 21.89 | 21.86 | | | | |
| 20 | 64QAM | 1 | 49 | 21.99 | 21.98 | 21.91 | | | | |
| 20 | 64QAM | 1 | 99 | 21.91 | 21.84 | 21.86 | 21 | 3 | | |
| 20 | 64QAM | 50 | 0 | 20.93 | 20.87 | 20.79 | | | | |
| 20 | 64QAM | 50 | 24 | 20.81 | 20.78 | 20.91 | | | | |
| 20 | 64QAM | 50 | 50 | 20.97 | 20.83 | 20.81 | 21 | 3 | | |
| 20 | 64QAM | 100 | 0 | 20.99 | 20.86 | 20.83 | | | | |
| Channel | | | | 133197 | 133297 | 133397 | | | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 670.5 | 680.5 | 690.5 | | | | |
| 15 | QPSK | 1 | 0 | 22.59 | 22.78 | 23.01 | | | | |
| 15 | QPSK | 1 | 37 | 22.88 | 22.97 | 22.73 | | | | |
| 15 | QPSK | 1 | 74 | 23.00 | 22.76 | 22.78 | 24 | 0 | | |
| 15 | QPSK | 36 | 0 | 22.92 | 22.75 | 22.77 | | | | |
| 15 | QPSK | 36 | 20 | 22.81 | 22.61 | 22.73 | | | | |
| 15 | QPSK | 36 | 39 | 22.74 | 22.73 | 22.82 | 23 | 1 | | |
| 15 | QPSK | 75 | 0 | 22.55 | 22.46 | 22.63 | | | | |
| 15 | 16QAM | 1 | 0 | 22.61 | 22.72 | 22.70 | | | | |
| 15 | 16QAM | 1 | 37 | 22.53 | 22.43 | 22.49 | 23 | 1 | | |
| 15 | 16QAM | 1 | 74 | 22.50 | 22.76 | 22.34 | | | | |
| 15 | 16QAM | 36 | 0 | 21.84 | 21.73 | 21.85 | | | | |
| 15 | 16QAM | 36 | 20 | 21.71 | 21.86 | 21.88 | 22 | 2 | | |
| 15 | 16QAM | 36 | 39 | 21.78 | 21.83 | 21.73 | | | | |
| 15 | 16QAM | 75 | 0 | 21.65 | 21.92 | 21.80 | | | | |
| 15 | 64QAM | 1 | 0 | 21.88 | 21.97 | 21.93 | 22 | 2 | | |
| 15 | 64QAM | 1 | 37 | 21.99 | 21.54 | 21.85 | | | | |
| 15 | 64QAM | 1 | 74 | 21.81 | 21.41 | 21.82 | | | | |
| 15 | 64QAM | 36 | 0 | 20.89 | 20.88 | 20.62 | 21 | 3 | | |
| 15 | 64QAM | 36 | 20 | 20.83 | 20.67 | 20.95 | | | | |
| 15 | 64QAM | 36 | 39 | 20.82 | 20.90 | 20.74 | | | | |
| 15 | 64QAM | 75 | 0 | 20.55 | 20.96 | 20.71 | 21 | 3 | | |
| Channel | | | | 133172 | 133272 | 133422 | | | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 668 | 678 | 693 | | | | |
| 10 | QPSK | 1 | 0 | 22.43 | 22.94 | 22.99 | | | | |
| 10 | QPSK | 1 | 25 | 22.85 | 22.91 | 22.69 | | | | |
| 10 | QPSK | 1 | 49 | 22.97 | 22.53 | 22.72 | 24 | 0 | | |
| 10 | QPSK | 25 | 0 | 22.71 | 22.89 | 22.92 | | | | |
| 10 | QPSK | 25 | 0 | 22.71 | 22.89 | 22.92 | | | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|----|---|
| 10 | QPSK | 25 | 12 | 22.94 | 22.47 | 22.86 | | |
| 10 | QPSK | 25 | 25 | 22.87 | 22.59 | 22.90 | | |
| 10 | QPSK | 50 | 0 | 22.62 | 22.35 | 22.53 | | |
| 10 | 16QAM | 1 | 0 | 22.82 | 22.55 | 22.48 | 23 | 1 |
| 10 | 16QAM | 1 | 25 | 22.62 | 22.38 | 22.52 | | |
| 10 | 16QAM | 1 | 49 | 22.47 | 22.79 | 22.58 | | |
| 10 | 16QAM | 25 | 0 | 21.76 | 21.84 | 21.88 | 22 | 2 |
| 10 | 16QAM | 25 | 12 | 21.54 | 21.90 | 21.95 | | |
| 10 | 16QAM | 25 | 25 | 21.63 | 21.84 | 21.72 | | |
| 10 | 16QAM | 50 | 0 | 21.31 | 21.98 | 21.76 | | |
| 10 | 64QAM | 1 | 0 | 21.81 | 21.76 | 21.77 | 22 | 2 |
| 10 | 64QAM | 1 | 25 | 21.62 | 21.81 | 21.82 | | |
| 10 | 64QAM | 1 | 49 | 21.87 | 21.83 | 21.79 | | |
| 10 | 64QAM | 25 | 0 | 20.65 | 20.71 | 20.73 | 21 | 3 |
| 10 | 64QAM | 25 | 12 | 20.87 | 20.86 | 20.61 | | |
| 10 | 64QAM | 25 | 25 | 20.54 | 20.66 | 20.67 | | |
| 10 | 64QAM | 50 | 0 | 20.85 | 20.78 | 20.71 | | |
| Channel | | | | 133147 | 133247 | 133447 | | |
| Frequency (MHz) | | | | 665.5 | 675.5 | 695.5 | | |
| 5 | QPSK | 1 | 0 | 22.38 | 22.80 | 23.14 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.96 | 22.70 | 22.83 | | |
| 5 | QPSK | 1 | 24 | 23.08 | 22.47 | 22.59 | | |
| 5 | QPSK | 12 | 0 | 22.88 | 22.90 | 22.51 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 22.81 | 22.48 | 22.95 | | |
| 5 | QPSK | 12 | 13 | 22.69 | 22.28 | 22.38 | | |
| 5 | QPSK | 25 | 0 | 22.52 | 21.75 | 22.30 | | |
| 5 | 16QAM | 1 | 0 | 22.56 | 22.48 | 22.44 | | |
| 5 | 16QAM | 1 | 12 | 22.87 | 22.24 | 22.56 | 23 | 1 |
| 5 | 16QAM | 1 | 24 | 22.32 | 22.86 | 22.42 | | |
| 5 | 16QAM | 12 | 0 | 21.49 | 21.58 | 21.89 | | |
| 5 | 16QAM | 12 | 7 | 21.42 | 21.78 | 21.94 | 22 | 2 |
| 5 | 16QAM | 12 | 13 | 21.77 | 21.83 | 21.70 | | |
| 5 | 16QAM | 25 | 0 | 21.52 | 21.55 | 21.91 | | |
| 5 | 64QAM | 1 | 0 | 21.61 | 21.66 | 21.49 | | |
| 5 | 64QAM | 1 | 12 | 21.85 | 21.80 | 21.82 | 22 | 2 |
| 5 | 64QAM | 1 | 24 | 21.95 | 21.96 | 21.81 | | |
| 5 | 64QAM | 12 | 0 | 20.72 | 20.77 | 20.82 | | |
| 5 | 64QAM | 12 | 7 | 20.70 | 20.60 | 20.21 | 21 | 3 |
| 5 | 64QAM | 12 | 13 | 20.54 | 20.84 | 20.83 | | |
| 5 | 64QAM | 25 | 0 | 20.89 | 20.63 | 20.79 | | |



<Reduced Power on Hotspot / Body-worn Mode>

<LTE Band 2>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 18700 | 18900 | 19100 | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1900 | | |
| 20 | QPSK | 1 | 0 | 15.92 | 15.76 | 16.34 | 17 | 0 |
| 20 | QPSK | 1 | 49 | 15.83 | 15.83 | 15.83 | | |
| 20 | QPSK | 1 | 99 | 15.84 | 15.82 | 15.94 | | |
| 20 | QPSK | 50 | 0 | 16.02 | 15.95 | 15.97 | 17 | 0 |
| 20 | QPSK | 50 | 24 | 16.02 | 15.92 | 16.01 | | |
| 20 | QPSK | 50 | 50 | 16.02 | 15.99 | 16.10 | | |
| 20 | QPSK | 100 | 0 | 16.02 | 16.00 | 15.95 | 17 | 0 |
| 20 | 16QAM | 1 | 0 | 16.36 | 16.33 | 16.11 | | |
| 20 | 16QAM | 1 | 49 | 16.28 | 16.26 | 16.20 | | |
| 20 | 16QAM | 1 | 99 | 16.23 | 16.16 | 16.34 | 17 | 0 |
| 20 | 16QAM | 50 | 0 | 16.06 | 16.03 | 15.98 | | |
| 20 | 16QAM | 50 | 24 | 16.07 | 16.03 | 16.02 | | |
| 20 | 16QAM | 50 | 50 | 16.05 | 16.02 | 16.09 | 17 | 0 |
| 20 | 16QAM | 100 | 0 | 16.03 | 15.93 | 15.95 | | |
| 20 | 64QAM | 1 | 0 | 16.08 | 16.07 | 16.09 | | |
| 20 | 64QAM | 1 | 49 | 16.01 | 16.00 | 16.00 | 17 | 0 |
| 20 | 64QAM | 1 | 99 | 16.10 | 16.09 | 16.24 | | |
| 20 | 64QAM | 50 | 0 | 16.07 | 16.00 | 16.00 | | |
| 20 | 64QAM | 50 | 24 | 16.07 | 16.04 | 16.02 | 17 | 0 |
| 20 | 64QAM | 50 | 50 | 16.07 | 16.05 | 16.12 | | |
| 20 | 64QAM | 100 | 0 | 16.06 | 15.99 | 16.00 | | |
| Channel | | | | 18675 | 18900 | 19125 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1902.5 | | |
| 15 | QPSK | 1 | 0 | 15.88 | 15.74 | 16.24 | 17 | 0 |
| 15 | QPSK | 1 | 37 | 15.77 | 15.75 | 15.78 | | |
| 15 | QPSK | 1 | 74 | 15.76 | 15.80 | 15.89 | | |
| 15 | QPSK | 36 | 0 | 16.00 | 15.90 | 15.94 | 17 | 0 |
| 15 | QPSK | 36 | 20 | 15.96 | 15.91 | 15.96 | | |
| 15 | QPSK | 36 | 39 | 15.97 | 15.90 | 16.09 | | |
| 15 | QPSK | 75 | 0 | 15.97 | 15.97 | 15.92 | 17 | 0 |
| 15 | 16QAM | 1 | 0 | 16.34 | 16.31 | 16.03 | | |
| 15 | 16QAM | 1 | 37 | 16.18 | 16.17 | 16.10 | | |
| 15 | 16QAM | 1 | 74 | 16.16 | 16.12 | 16.29 | 17 | 0 |
| 15 | 16QAM | 36 | 0 | 16.06 | 16.03 | 15.93 | | |
| 15 | 16QAM | 36 | 20 | 16.04 | 15.93 | 15.94 | | |
| 15 | 16QAM | 36 | 39 | 15.98 | 15.99 | 16.02 | 17 | 0 |
| 15 | 16QAM | 75 | 0 | 16.02 | 15.85 | 15.85 | | |
| 15 | 64QAM | 1 | 0 | 15.99 | 15.98 | 15.99 | | |
| 15 | 64QAM | 1 | 37 | 15.96 | 15.95 | 15.98 | 17 | 0 |
| 15 | 64QAM | 1 | 74 | 16.08 | 16.07 | 16.23 | | |
| 15 | 64QAM | 36 | 0 | 16.02 | 15.91 | 15.98 | | |
| 15 | 64QAM | 36 | 20 | 16.06 | 15.95 | 15.93 | 17 | 0 |
| 15 | 64QAM | 36 | 39 | 16.06 | 16.01 | 16.08 | | |
| 15 | 64QAM | 75 | 0 | 15.96 | 15.90 | 15.97 | | |
| Channel | | | | 18650 | 18900 | 19150 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1855 | 1880 | 1905 | | |
| 10 | QPSK | 1 | 0 | 15.83 | 15.70 | 16.30 | 17 | 0 |
| 10 | QPSK | 1 | 25 | 15.79 | 15.78 | 15.78 | | |
| 10 | QPSK | 1 | 49 | 15.75 | 15.77 | 15.86 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 0 | 15.95 | 15.90 | 15.97 | 17 | 0 |
| 10 | QPSK | 25 | 12 | 15.99 | 15.82 | 15.99 | | |
| 10 | QPSK | 25 | 25 | 15.99 | 15.93 | 16.03 | | |
| 10 | QPSK | 50 | 0 | 15.97 | 15.99 | 15.94 | 17 | 0 |
| 10 | 16QAM | 1 | 0 | 16.29 | 16.27 | 16.02 | | |
| 10 | 16QAM | 1 | 25 | 16.20 | 16.21 | 16.19 | | |
| 10 | 16QAM | 1 | 49 | 16.15 | 16.15 | 16.26 | 17 | 0 |
| 10 | 16QAM | 25 | 0 | 16.02 | 15.97 | 15.90 | | |
| 10 | 16QAM | 25 | 12 | 15.97 | 15.99 | 15.95 | | |
| 10 | 16QAM | 25 | 25 | 16.00 | 15.99 | 16.03 | 17 | 0 |
| 10 | 16QAM | 50 | 0 | 16.02 | 15.92 | 15.89 | | |
| 10 | 64QAM | 1 | 0 | 15.99 | 16.05 | 16.06 | | |
| 10 | 64QAM | 1 | 25 | 15.93 | 15.92 | 15.90 | 17 | 0 |
| 10 | 64QAM | 1 | 49 | 16.09 | 15.99 | 16.18 | | |
| 10 | 64QAM | 25 | 0 | 16.02 | 15.98 | 15.94 | | |
| 10 | 64QAM | 25 | 12 | 15.97 | 15.95 | 15.96 | 17 | 0 |
| 10 | 64QAM | 25 | 25 | 15.98 | 15.98 | 16.10 | | |
| 10 | 64QAM | 50 | 0 | 16.05 | 15.94 | 15.90 | | |
| Channel | | | | 18625 | 18900 | 19175 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1907.5 | | |
| 5 | QPSK | 1 | 0 | 15.87 | 15.75 | 16.32 | 17 | 0 |
| 5 | QPSK | 1 | 12 | 15.76 | 15.81 | 15.76 | | |
| 5 | QPSK | 1 | 24 | 15.76 | 15.76 | 15.87 | | |
| 5 | QPSK | 12 | 0 | 15.93 | 15.87 | 15.95 | 17 | 0 |
| 5 | QPSK | 12 | 7 | 16.02 | 15.90 | 15.91 | | |
| 5 | QPSK | 12 | 13 | 15.95 | 15.93 | 16.01 | | |
| 5 | QPSK | 25 | 0 | 15.97 | 15.93 | 15.95 | 17 | 0 |
| 5 | 16QAM | 1 | 0 | 16.28 | 16.31 | 16.05 | | |
| 5 | 16QAM | 1 | 12 | 16.25 | 16.19 | 16.17 | | |
| 5 | 16QAM | 1 | 24 | 16.18 | 16.14 | 16.32 | 17 | 0 |
| 5 | 16QAM | 12 | 0 | 16.00 | 16.02 | 15.90 | | |
| 5 | 16QAM | 12 | 7 | 15.99 | 15.94 | 15.92 | | |
| 5 | 16QAM | 12 | 13 | 16.01 | 15.98 | 15.99 | 17 | 0 |
| 5 | 16QAM | 25 | 0 | 15.96 | 15.86 | 15.90 | | |
| 5 | 64QAM | 1 | 0 | 16.03 | 16.04 | 16.03 | | |
| 5 | 64QAM | 1 | 12 | 15.96 | 15.90 | 15.95 | 17 | 0 |
| 5 | 64QAM | 1 | 24 | 16.04 | 16.00 | 16.20 | | |
| 5 | 64QAM | 12 | 0 | 16.02 | 15.97 | 15.94 | | |
| 5 | 64QAM | 12 | 7 | 16.07 | 15.96 | 15.99 | 17 | 0 |
| 5 | 64QAM | 12 | 13 | 16.02 | 15.98 | 16.09 | | |
| 5 | 64QAM | 25 | 0 | 15.97 | 15.97 | 15.92 | | |
| Channel | | | | 18615 | 18900 | 19185 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1851.5 | 1880 | 1908.5 | | |
| 3 | QPSK | 1 | 0 | 15.82 | 15.66 | 16.31 | 17 | 0 |
| 3 | QPSK | 1 | 8 | 15.82 | 15.83 | 15.83 | | |
| 3 | QPSK | 1 | 14 | 15.83 | 15.75 | 15.89 | | |
| 3 | QPSK | 8 | 0 | 15.95 | 15.94 | 15.93 | 17 | 0 |
| 3 | QPSK | 8 | 4 | 15.96 | 15.82 | 16.01 | | |
| 3 | QPSK | 8 | 7 | 16.01 | 15.95 | 16.03 | | |
| 3 | QPSK | 15 | 0 | 15.93 | 16.00 | 15.88 | 17 | 0 |
| 3 | 16QAM | 1 | 0 | 16.27 | 16.26 | 16.11 | | |
| 3 | 16QAM | 1 | 8 | 16.20 | 16.25 | 16.18 | | |
| 3 | 16QAM | 1 | 14 | 16.15 | 16.15 | 16.31 | 17 | 0 |
| 3 | 16QAM | 8 | 0 | 16.04 | 16.00 | 15.88 | | |
| 3 | 16QAM | 8 | 4 | 16.03 | 15.97 | 15.94 | | |
| 3 | 16QAM | 8 | 7 | 15.98 | 16.01 | 16.05 | 17 | 0 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|------------------------|-------------|
| 3 | 16QAM | 15 | 0 | 15.95 | 15.83 | 15.86 | | |
| 3 | 64QAM | 1 | 0 | 16.06 | 16.00 | 16.04 | 17 | 0 |
| 3 | 64QAM | 1 | 8 | 15.95 | 15.92 | 15.93 | | |
| 3 | 64QAM | 1 | 14 | 16.02 | 16.00 | 16.24 | | |
| 3 | 64QAM | 8 | 0 | 16.02 | 15.96 | 16.00 | 17 | 0 |
| 3 | 64QAM | 8 | 4 | 16.05 | 15.96 | 15.95 | | |
| 3 | 64QAM | 8 | 7 | 16.00 | 15.97 | 16.02 | | |
| 3 | 64QAM | 15 | 0 | 16.05 | 15.97 | 15.99 | | |
| Channel | | | | 18607 | 18900 | 19193 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1850.7 | 1880 | 1909.3 | | |
| 1.4 | QPSK | 1 | 0 | 15.87 | 15.67 | 16.32 | 17 | 0 |
| 1.4 | QPSK | 1 | 3 | 15.73 | 15.83 | 15.81 | | |
| 1.4 | QPSK | 1 | 5 | 15.84 | 15.77 | 15.93 | | |
| 1.4 | QPSK | 3 | 0 | 15.95 | 15.86 | 15.93 | | |
| 1.4 | QPSK | 3 | 1 | 16.01 | 15.92 | 15.98 | | |
| 1.4 | QPSK | 3 | 3 | 15.99 | 15.94 | 16.02 | | |
| 1.4 | QPSK | 6 | 0 | 15.92 | 15.94 | 15.95 | 17 | 0 |
| 1.4 | 16QAM | 1 | 0 | 16.34 | 16.27 | 16.11 | 17 | 0 |
| 1.4 | 16QAM | 1 | 3 | 16.23 | 16.22 | 16.11 | | |
| 1.4 | 16QAM | 1 | 5 | 16.23 | 16.09 | 16.27 | | |
| 1.4 | 16QAM | 3 | 0 | 16.05 | 16.03 | 15.93 | | |
| 1.4 | 16QAM | 3 | 1 | 16.02 | 15.98 | 15.98 | | |
| 1.4 | 16QAM | 3 | 3 | 15.95 | 15.92 | 16.04 | | |
| 1.4 | 16QAM | 6 | 0 | 15.97 | 15.90 | 15.92 | 17 | 0 |
| 1.4 | 64QAM | 1 | 0 | 16.00 | 16.05 | 16.03 | 17 | 0 |
| 1.4 | 64QAM | 1 | 3 | 15.91 | 15.92 | 15.96 | | |
| 1.4 | 64QAM | 1 | 5 | 16.04 | 16.00 | 16.21 | | |
| 1.4 | 64QAM | 3 | 0 | 16.07 | 15.92 | 15.99 | | |
| 1.4 | 64QAM | 3 | 1 | 15.99 | 15.95 | 16.02 | | |
| 1.4 | 64QAM | 3 | 3 | 16.07 | 15.99 | 16.04 | | |
| 1.4 | 64QAM | 6 | 0 | 15.97 | 15.97 | 16.00 | 17 | 0 |



<LTE Band 4>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 20050 | 20175 | 20300 | | |
| Frequency (MHz) | | | | 1720 | 1732.5 | 1745 | | |
| 20 | QPSK | 1 | 0 | 16.23 | 16.58 | 16.28 | 17 | 0 |
| 20 | QPSK | 1 | 49 | 16.04 | 16.07 | 15.99 | | |
| 20 | QPSK | 1 | 99 | 16.11 | 16.06 | 16.00 | | |
| 20 | QPSK | 50 | 0 | 16.23 | 16.28 | 16.31 | 17 | 0 |
| 20 | QPSK | 50 | 24 | 16.25 | 16.23 | 16.22 | | |
| 20 | QPSK | 50 | 50 | 16.19 | 16.20 | 16.14 | | |
| 20 | QPSK | 100 | 0 | 16.23 | 16.23 | 16.20 | 17 | 0 |
| 20 | 16QAM | 1 | 0 | 16.55 | 16.62 | 16.57 | | |
| 20 | 16QAM | 1 | 49 | 16.41 | 16.43 | 16.35 | | |
| 20 | 16QAM | 1 | 99 | 16.44 | 16.43 | 16.40 | 17 | 0 |
| 20 | 16QAM | 50 | 0 | 16.26 | 16.32 | 16.34 | | |
| 20 | 16QAM | 50 | 24 | 16.29 | 16.23 | 16.24 | | |
| 20 | 16QAM | 50 | 50 | 16.24 | 16.24 | 16.17 | 17 | 0 |
| 20 | 16QAM | 100 | 0 | 16.28 | 16.21 | 16.23 | | |
| 20 | 64QAM | 1 | 0 | 16.49 | 16.45 | 16.21 | | |
| 20 | 64QAM | 1 | 49 | 16.32 | 16.31 | 16.25 | 17 | 0 |
| 20 | 64QAM | 1 | 99 | 16.37 | 16.31 | 16.29 | | |
| 20 | 64QAM | 50 | 0 | 16.27 | 16.33 | 16.35 | | |
| 20 | 64QAM | 50 | 24 | 16.28 | 16.25 | 16.24 | 17 | 0 |
| 20 | 64QAM | 50 | 50 | 16.22 | 16.24 | 16.17 | | |
| 20 | 64QAM | 100 | 0 | 16.30 | 16.23 | 16.25 | | |
| Channel | | | | 20025 | 20175 | 20325 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1717.5 | 1732.5 | 1747.5 | | |
| 15 | QPSK | 1 | 0 | 16.21 | 16.57 | 16.28 | 17 | 0 |
| 15 | QPSK | 1 | 37 | 16.04 | 15.97 | 15.96 | | |
| 15 | QPSK | 1 | 74 | 16.10 | 15.97 | 16.00 | | |
| 15 | QPSK | 36 | 0 | 16.20 | 16.19 | 16.24 | 17 | 0 |
| 15 | QPSK | 36 | 20 | 16.22 | 16.16 | 16.14 | | |
| 15 | QPSK | 36 | 39 | 16.11 | 16.16 | 16.14 | | |
| 15 | QPSK | 75 | 0 | 16.23 | 16.22 | 16.15 | 17 | 0 |
| 15 | 16QAM | 1 | 0 | 16.49 | 16.52 | 16.55 | | |
| 15 | 16QAM | 1 | 37 | 16.36 | 16.42 | 16.29 | | |
| 15 | 16QAM | 1 | 74 | 16.36 | 16.42 | 16.40 | 17 | 0 |
| 15 | 16QAM | 36 | 0 | 16.25 | 16.32 | 16.27 | | |
| 15 | 16QAM | 36 | 20 | 16.29 | 16.18 | 16.16 | | |
| 15 | 16QAM | 36 | 39 | 16.23 | 16.23 | 16.15 | 17 | 0 |
| 15 | 16QAM | 75 | 0 | 16.24 | 16.17 | 16.20 | | |
| 15 | 64QAM | 1 | 0 | 16.47 | 16.37 | 16.16 | | |
| 15 | 64QAM | 1 | 37 | 16.24 | 16.28 | 16.17 | 17 | 0 |
| 15 | 64QAM | 1 | 74 | 16.37 | 16.30 | 16.26 | | |
| 15 | 64QAM | 36 | 0 | 16.18 | 16.25 | 16.32 | | |
| 15 | 64QAM | 36 | 20 | 16.23 | 16.15 | 16.16 | 17 | 0 |
| 15 | 64QAM | 36 | 39 | 16.19 | 16.19 | 16.09 | | |
| 15 | 64QAM | 75 | 0 | 16.25 | 16.20 | 16.19 | | |
| Channel | | | | 20000 | 20175 | 20350 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1715 | 1732.5 | 1750 | | |
| 10 | QPSK | 1 | 0 | 16.14 | 16.56 | 16.22 | 17 | 0 |
| 10 | QPSK | 1 | 25 | 16.04 | 16.00 | 15.97 | | |
| 10 | QPSK | 1 | 49 | 16.09 | 15.97 | 15.91 | | |
| 10 | QPSK | 25 | 0 | 16.21 | 16.26 | 16.27 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 16.23 | 16.22 | 16.20 | | |
| 10 | QPSK | 25 | 25 | 16.18 | 16.15 | 16.08 | | |
| 10 | QPSK | 50 | 0 | 16.23 | 16.17 | 16.11 | | |
| 10 | 16QAM | 1 | 0 | 16.47 | 16.54 | 16.54 | 17 | 0 |
| 10 | 16QAM | 1 | 25 | 16.39 | 16.38 | 16.29 | | |
| 10 | 16QAM | 1 | 49 | 16.44 | 16.43 | 16.30 | | |
| 10 | 16QAM | 25 | 0 | 16.25 | 16.28 | 16.29 | 17 | 0 |
| 10 | 16QAM | 25 | 12 | 16.23 | 16.21 | 16.18 | | |
| 10 | 16QAM | 25 | 25 | 16.22 | 16.22 | 16.13 | | |
| 10 | 16QAM | 50 | 0 | 16.28 | 16.17 | 16.20 | | |
| 10 | 64QAM | 1 | 0 | 16.47 | 16.44 | 16.12 | 17 | 0 |
| 10 | 64QAM | 1 | 25 | 16.28 | 16.26 | 16.18 | | |
| 10 | 64QAM | 1 | 49 | 16.36 | 16.25 | 16.22 | | |
| 10 | 64QAM | 25 | 0 | 16.26 | 16.23 | 16.31 | 17 | 0 |
| 10 | 64QAM | 25 | 12 | 16.26 | 16.19 | 16.23 | | |
| 10 | 64QAM | 25 | 25 | 16.15 | 16.16 | 16.12 | | |
| 10 | 64QAM | 50 | 0 | 16.29 | 16.15 | 16.17 | | |
| Channel | | | | 19975 | 20175 | 20375 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1712.5 | 1732.5 | 1752.5 | | |
| 5 | QPSK | 1 | 0 | 16.20 | 16.56 | 16.27 | 17 | 0 |
| 5 | QPSK | 1 | 12 | 16.02 | 16.06 | 15.94 | | |
| 5 | QPSK | 1 | 24 | 16.02 | 15.97 | 15.99 | | |
| 5 | QPSK | 12 | 0 | 16.18 | 16.28 | 16.21 | 17 | 0 |
| 5 | QPSK | 12 | 7 | 16.17 | 16.13 | 16.17 | | |
| 5 | QPSK | 12 | 13 | 16.17 | 16.11 | 16.08 | | |
| 5 | QPSK | 25 | 0 | 16.14 | 16.14 | 16.12 | | |
| 5 | 16QAM | 1 | 0 | 16.47 | 16.54 | 16.57 | 17 | 0 |
| 5 | 16QAM | 1 | 12 | 16.41 | 16.37 | 16.27 | | |
| 5 | 16QAM | 1 | 24 | 16.42 | 16.38 | 16.37 | | |
| 5 | 16QAM | 12 | 0 | 16.16 | 16.29 | 16.24 | 17 | 0 |
| 5 | 16QAM | 12 | 7 | 16.29 | 16.21 | 16.16 | | |
| 5 | 16QAM | 12 | 13 | 16.19 | 16.15 | 16.07 | | |
| 5 | 16QAM | 25 | 0 | 16.25 | 16.12 | 16.17 | | |
| 5 | 64QAM | 1 | 0 | 16.39 | 16.39 | 16.14 | 17 | 0 |
| 5 | 64QAM | 1 | 12 | 16.32 | 16.29 | 16.25 | | |
| 5 | 64QAM | 1 | 24 | 16.29 | 16.28 | 16.20 | | |
| 5 | 64QAM | 12 | 0 | 16.17 | 16.28 | 16.31 | 17 | 0 |
| 5 | 64QAM | 12 | 7 | 16.22 | 16.18 | 16.21 | | |
| 5 | 64QAM | 12 | 13 | 16.12 | 16.21 | 16.07 | | |
| 5 | 64QAM | 25 | 0 | 16.28 | 16.20 | 16.18 | | |
| Channel | | | | 19965 | 20175 | 20385 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1711.5 | 1732.5 | 1753.5 | | |
| 3 | QPSK | 1 | 0 | 16.18 | 16.48 | 16.28 | 17 | 0 |
| 3 | QPSK | 1 | 8 | 15.96 | 16.06 | 15.93 | | |
| 3 | QPSK | 1 | 14 | 16.10 | 15.97 | 15.96 | | |
| 3 | QPSK | 8 | 0 | 16.14 | 16.28 | 16.21 | 17 | 0 |
| 3 | QPSK | 8 | 4 | 16.16 | 16.13 | 16.18 | | |
| 3 | QPSK | 8 | 7 | 16.17 | 16.10 | 16.12 | | |
| 3 | QPSK | 15 | 0 | 16.20 | 16.23 | 16.20 | | |
| 3 | 16QAM | 1 | 0 | 16.50 | 16.53 | 16.53 | 17 | 0 |
| 3 | 16QAM | 1 | 8 | 16.37 | 16.35 | 16.30 | | |
| 3 | 16QAM | 1 | 14 | 16.39 | 16.41 | 16.32 | | |
| 3 | 16QAM | 8 | 0 | 16.18 | 16.25 | 16.30 | 17 | 0 |
| 3 | 16QAM | 8 | 4 | 16.20 | 16.18 | 16.23 | | |
| 3 | 16QAM | 8 | 7 | 16.19 | 16.17 | 16.17 | | |
| 3 | 16QAM | 15 | 0 | 16.24 | 16.15 | 16.13 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 16.49 | 16.42 | 16.16 | 17 | 0 |
| 3 | 64QAM | 1 | 8 | 16.31 | 16.22 | 16.15 | | |
| 3 | 64QAM | 1 | 14 | 16.34 | 16.23 | 16.23 | | |
| 3 | 64QAM | 8 | 0 | 16.27 | 16.32 | 16.32 | 17 | 0 |
| 3 | 64QAM | 8 | 4 | 16.20 | 16.16 | 16.19 | | |
| 3 | 64QAM | 8 | 7 | 16.15 | 16.21 | 16.11 | | |
| 3 | 64QAM | 15 | 0 | 16.26 | 16.18 | 16.18 | | |
| Channel | | | | 19957 | 20175 | 20393 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1710.7 | 1732.5 | 1754.3 | | |
| 1.4 | QPSK | 1 | 0 | 16.20 | 16.53 | 16.24 | 17 | 0 |
| 1.4 | QPSK | 1 | 3 | 16.04 | 16.04 | 15.90 | | |
| 1.4 | QPSK | 1 | 5 | 16.08 | 15.99 | 15.96 | | |
| 1.4 | QPSK | 3 | 0 | 16.13 | 16.26 | 16.21 | | |
| 1.4 | QPSK | 3 | 1 | 16.19 | 16.13 | 16.22 | | |
| 1.4 | QPSK | 3 | 3 | 16.10 | 16.13 | 16.09 | | |
| 1.4 | QPSK | 6 | 0 | 16.13 | 16.16 | 16.14 | 17 | 0 |
| 1.4 | 16QAM | 1 | 0 | 16.51 | 16.54 | 16.53 | 17 | 0 |
| 1.4 | 16QAM | 1 | 3 | 16.37 | 16.37 | 16.32 | | |
| 1.4 | 16QAM | 1 | 5 | 16.35 | 16.36 | 16.40 | | |
| 1.4 | 16QAM | 3 | 0 | 16.25 | 16.32 | 16.29 | | |
| 1.4 | 16QAM | 3 | 1 | 16.24 | 16.15 | 16.16 | | |
| 1.4 | 16QAM | 3 | 3 | 16.15 | 16.17 | 16.17 | | |
| 1.4 | 16QAM | 6 | 0 | 16.24 | 16.21 | 16.22 | 17 | 0 |
| 1.4 | 64QAM | 1 | 0 | 16.41 | 16.41 | 16.16 | 17 | 0 |
| 1.4 | 64QAM | 1 | 3 | 16.27 | 16.30 | 16.22 | | |
| 1.4 | 64QAM | 1 | 5 | 16.33 | 16.26 | 16.28 | | |
| 1.4 | 64QAM | 3 | 0 | 16.17 | 16.24 | 16.34 | | |
| 1.4 | 64QAM | 3 | 1 | 16.27 | 16.25 | 16.24 | | |
| 1.4 | 64QAM | 3 | 3 | 16.22 | 16.23 | 16.07 | | |
| 1.4 | 64QAM | 6 | 0 | 16.25 | 16.14 | 16.17 | 17 | 0 |



<LTE Band 7>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 20850 | 21100 | 21350 | | |
| Frequency (MHz) | | | | 2510 | 2535 | 2560 | | |
| 20 | QPSK | 1 | 0 | 20.63 | 20.82 | 20.80 | | |
| 20 | QPSK | 1 | 49 | 20.46 | 20.36 | 20.61 | 21.5 | 0 |
| 20 | QPSK | 1 | 99 | 20.56 | 20.50 | 20.72 | | |
| 20 | QPSK | 50 | 0 | 20.71 | 20.77 | 20.64 | | |
| 20 | QPSK | 50 | 24 | 20.62 | 20.56 | 20.69 | 21.5 | 0 |
| 20 | QPSK | 50 | 50 | 20.63 | 20.58 | 20.62 | | |
| 20 | QPSK | 100 | 0 | 20.64 | 20.77 | 20.69 | | |
| 20 | 16QAM | 1 | 0 | 20.81 | 20.73 | 20.75 | 21.5 | 0 |
| 20 | 16QAM | 1 | 49 | 20.73 | 20.73 | 20.74 | | |
| 20 | 16QAM | 1 | 99 | 20.70 | 20.70 | 20.76 | | |
| 20 | 16QAM | 50 | 0 | 20.60 | 20.56 | 20.66 | 21.5 | 0 |
| 20 | 16QAM | 50 | 24 | 20.65 | 20.61 | 20.73 | | |
| 20 | 16QAM | 50 | 50 | 20.67 | 20.63 | 20.73 | | |
| 20 | 16QAM | 100 | 0 | 20.64 | 20.59 | 20.72 | 21.5 | 0 |
| 20 | 64QAM | 1 | 0 | 20.71 | 20.61 | 20.71 | | |
| 20 | 64QAM | 1 | 49 | 20.67 | 20.63 | 20.73 | | |
| 20 | 64QAM | 1 | 99 | 20.75 | 20.73 | 20.76 | 21 | 0.5 |
| 20 | 64QAM | 50 | 0 | 19.76 | 20.07 | 19.90 | | |
| 20 | 64QAM | 50 | 24 | 19.86 | 20.09 | 20.07 | | |
| 20 | 64QAM | 50 | 50 | 19.94 | 20.13 | 20.00 | 21 | 0.5 |
| 20 | 64QAM | 100 | 0 | 19.85 | 20.10 | 19.79 | | |
| Channel | | | | 20825 | 21100 | 21375 | | |
| Frequency (MHz) | | | | 2507.5 | 2535 | 2562.5 | | |
| 15 | QPSK | 1 | 0 | 20.54 | 20.76 | 20.70 | 21.5 | 0 |
| 15 | QPSK | 1 | 37 | 20.45 | 20.36 | 20.57 | | |
| 15 | QPSK | 1 | 74 | 20.53 | 20.50 | 20.69 | | |
| 15 | QPSK | 36 | 0 | 20.61 | 20.72 | 20.57 | 21.5 | 0 |
| 15 | QPSK | 36 | 20 | 20.57 | 20.55 | 20.64 | | |
| 15 | QPSK | 36 | 39 | 20.62 | 20.50 | 20.56 | | |
| 15 | QPSK | 75 | 0 | 20.57 | 20.72 | 20.68 | 21.5 | 0 |
| 15 | 16QAM | 1 | 0 | 20.77 | 20.73 | 20.65 | | |
| 15 | 16QAM | 1 | 37 | 20.63 | 20.69 | 20.66 | | |
| 15 | 16QAM | 1 | 74 | 20.61 | 20.66 | 20.68 | 21.5 | 0 |
| 15 | 16QAM | 36 | 0 | 20.53 | 20.53 | 20.63 | | |
| 15 | 16QAM | 36 | 20 | 20.57 | 20.58 | 20.69 | | |
| 15 | 16QAM | 36 | 39 | 20.57 | 20.57 | 20.69 | 21.5 | 0 |
| 15 | 16QAM | 75 | 0 | 20.56 | 20.57 | 20.62 | | |
| 15 | 64QAM | 1 | 0 | 20.71 | 20.57 | 20.70 | | |
| 15 | 64QAM | 1 | 37 | 20.60 | 20.58 | 20.66 | 21.5 | 0 |
| 15 | 64QAM | 1 | 74 | 20.68 | 20.71 | 20.76 | | |
| 15 | 64QAM | 36 | 0 | 19.67 | 20.07 | 19.83 | | |
| 15 | 64QAM | 36 | 20 | 19.78 | 20.01 | 20.02 | 21 | 0.5 |
| 15 | 64QAM | 36 | 39 | 19.84 | 20.09 | 19.99 | | |
| 15 | 64QAM | 75 | 0 | 19.82 | 20.08 | 19.72 | | |
| Channel | | | | 20800 | 21100 | 21400 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2505 | 2535 | 2565 | | |
| 10 | QPSK | 1 | 0 | 20.61 | 20.79 | 20.73 | 21.5 | 0 |
| 10 | QPSK | 1 | 25 | 20.36 | 20.36 | 20.59 | | |
| 10 | QPSK | 1 | 49 | 20.46 | 20.40 | 20.70 | | |
| 10 | QPSK | 25 | 0 | 20.61 | 20.75 | 20.54 | 21.5 | 0 |



| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 20.52 | 20.51 | 20.65 | | |
| 10 | QPSK | 25 | 25 | 20.53 | 20.48 | 20.58 | | |
| 10 | QPSK | 50 | 0 | 20.60 | 20.70 | 20.61 | | |
| 10 | 16QAM | 1 | 0 | 20.80 | 20.63 | 20.66 | 21.5 | 0 |
| 10 | 16QAM | 1 | 25 | 20.71 | 20.73 | 20.74 | | |
| 10 | 16QAM | 1 | 49 | 20.70 | 20.60 | 20.66 | | |
| 10 | 16QAM | 25 | 0 | 20.56 | 20.50 | 20.64 | 21.5 | 0 |
| 10 | 16QAM | 25 | 12 | 20.63 | 20.60 | 20.65 | | |
| 10 | 16QAM | 25 | 25 | 20.60 | 20.56 | 20.67 | | |
| 10 | 16QAM | 50 | 0 | 20.54 | 20.52 | 20.66 | | |
| 10 | 64QAM | 1 | 0 | 20.66 | 20.58 | 20.61 | 21.5 | 0 |
| 10 | 64QAM | 1 | 25 | 20.60 | 20.54 | 20.69 | | |
| 10 | 64QAM | 1 | 49 | 20.69 | 20.66 | 20.72 | | |
| 10 | 64QAM | 25 | 0 | 19.76 | 20.02 | 19.85 | 21 | 0.5 |
| 10 | 64QAM | 25 | 12 | 19.85 | 19.99 | 20.04 | | |
| 10 | 64QAM | 25 | 25 | 19.85 | 20.12 | 19.90 | | |
| 10 | 64QAM | 50 | 0 | 19.79 | 20.07 | 19.70 | | |
| Channel | | | | 20775 | 21100 | 21425 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2502.5 | 2535 | 2567.5 | | |
| 5 | QPSK | 1 | 0 | 20.53 | 20.75 | 20.75 | 21.5 | 0 |
| 5 | QPSK | 1 | 12 | 20.44 | 20.34 | 20.61 | | |
| 5 | QPSK | 1 | 24 | 20.53 | 20.42 | 20.68 | | |
| 5 | QPSK | 12 | 0 | 20.59 | 20.71 | 20.57 | 21.5 | 0 |
| 5 | QPSK | 12 | 7 | 20.61 | 20.46 | 20.69 | | |
| 5 | QPSK | 12 | 13 | 20.53 | 20.58 | 20.52 | | |
| 5 | QPSK | 25 | 0 | 20.58 | 20.77 | 20.59 | | |
| 5 | 16QAM | 1 | 0 | 20.72 | 20.65 | 20.73 | 21.5 | 0 |
| 5 | 16QAM | 1 | 12 | 20.68 | 20.69 | 20.68 | | |
| 5 | 16QAM | 1 | 24 | 20.67 | 20.68 | 20.68 | | |
| 5 | 16QAM | 12 | 0 | 20.60 | 20.48 | 20.60 | 21.5 | 0 |
| 5 | 16QAM | 12 | 7 | 20.55 | 20.54 | 20.69 | | |
| 5 | 16QAM | 12 | 13 | 20.57 | 20.63 | 20.71 | | |
| 5 | 16QAM | 25 | 0 | 20.61 | 20.53 | 20.63 | | |
| 5 | 64QAM | 1 | 0 | 20.68 | 20.59 | 20.66 | 21.5 | 0 |
| 5 | 64QAM | 1 | 12 | 20.58 | 20.61 | 20.70 | | |
| 5 | 64QAM | 1 | 24 | 20.65 | 20.69 | 20.68 | | |
| 5 | 64QAM | 12 | 0 | 19.68 | 19.98 | 19.90 | 21 | 0.5 |
| 5 | 64QAM | 12 | 7 | 19.83 | 20.09 | 19.99 | | |
| 5 | 64QAM | 12 | 13 | 19.88 | 20.05 | 20.00 | | |
| 5 | 64QAM | 25 | 0 | 19.75 | 20.06 | 19.74 | | |



<LTE Band 25>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | | |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|---------------------|----------|
| Channel | | | | 26140 | 26340 | 26590 | | | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1905 | | | | |
| 20 | QPSK | 1 | 0 | 16.99 | 16.88 | 16.79 | | | | |
| 20 | QPSK | 1 | 49 | 16.68 | 16.65 | 16.81 | 17 | 0 | | |
| 20 | QPSK | 1 | 99 | 16.65 | 16.74 | 16.88 | | | | |
| 20 | QPSK | 50 | 0 | 16.95 | 16.86 | 16.90 | | | | |
| 20 | QPSK | 50 | 24 | 16.89 | 16.85 | 16.78 | 17 | 0 | | |
| 20 | QPSK | 50 | 50 | 16.85 | 16.83 | 16.85 | | | | |
| 20 | QPSK | 100 | 0 | 16.90 | 16.88 | 16.85 | | | | |
| 20 | 16QAM | 1 | 0 | 16.82 | 16.89 | 16.89 | 17 | 0 | | |
| 20 | 16QAM | 1 | 49 | 16.71 | 16.71 | 16.79 | | | | |
| 20 | 16QAM | 1 | 99 | 16.57 | 16.71 | 16.75 | | | | |
| 20 | 16QAM | 50 | 0 | 16.97 | 16.84 | 16.94 | 17 | 0 | | |
| 20 | 16QAM | 50 | 24 | 16.96 | 16.84 | 16.97 | | | | |
| 20 | 16QAM | 50 | 50 | 16.94 | 16.86 | 16.57 | | | | |
| 20 | 16QAM | 100 | 0 | 16.91 | 16.82 | 16.93 | 17 | 0 | | |
| 20 | 64QAM | 1 | 0 | 16.98 | 16.94 | 16.98 | | | | |
| 20 | 64QAM | 1 | 49 | 16.89 | 16.88 | 16.77 | | | | |
| 20 | 64QAM | 1 | 99 | 16.95 | 16.75 | 16.79 | 17 | 0 | | |
| 20 | 64QAM | 50 | 0 | 16.97 | 16.88 | 16.97 | | | | |
| 20 | 64QAM | 50 | 24 | 16.95 | 16.87 | 16.72 | | | | |
| 20 | 64QAM | 50 | 50 | 16.91 | 16.88 | 16.71 | 17 | 0 | | |
| 20 | 64QAM | 50 | 50 | 16.91 | 16.88 | 16.71 | | | | |
| 20 | 64QAM | 100 | 0 | 16.93 | 16.85 | 16.80 | | | | |
| Channel | | | | 26115 | 26340 | 26615 | Tune-up limit (dBm) | MPR (dB) | | |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1907.5 | 17 | 0 | | |
| 15 | QPSK | 1 | 0 | 16.89 | 16.85 | 16.75 | | | | |
| 15 | QPSK | 1 | 37 | 16.60 | 16.63 | 16.81 | | | | |
| 15 | QPSK | 1 | 74 | 16.62 | 16.66 | 16.79 | 17 | 0 | | |
| 15 | QPSK | 36 | 0 | 16.93 | 16.81 | 16.88 | | | | |
| 15 | QPSK | 36 | 20 | 16.87 | 16.80 | 16.75 | | | | |
| 15 | QPSK | 36 | 39 | 16.82 | 16.80 | 16.79 | 17 | 0 | | |
| 15 | QPSK | 75 | 0 | 16.83 | 16.82 | 16.83 | | | | |
| 15 | 16QAM | 1 | 0 | 16.81 | 16.79 | 16.85 | | | | |
| 15 | 16QAM | 1 | 37 | 16.69 | 16.70 | 16.69 | 17 | 0 | | |
| 15 | 16QAM | 1 | 74 | 16.52 | 16.65 | 16.72 | | | | |
| 15 | 16QAM | 36 | 0 | 16.94 | 16.75 | 16.92 | | | | |
| 15 | 16QAM | 36 | 20 | 16.92 | 16.82 | 16.89 | 17 | 0 | | |
| 15 | 16QAM | 36 | 39 | 16.89 | 16.85 | 16.48 | | | | |
| 15 | 16QAM | 75 | 0 | 16.86 | 16.82 | 16.88 | | | | |
| 15 | 64QAM | 1 | 0 | 16.88 | 16.86 | 16.95 | 17 | 0 | | |
| 15 | 64QAM | 1 | 37 | 16.88 | 16.82 | 16.67 | | | | |
| 15 | 64QAM | 1 | 74 | 16.89 | 16.68 | 16.70 | | | | |
| 15 | 64QAM | 36 | 0 | 16.92 | 16.85 | 16.87 | 17 | 0 | | |
| 15 | 64QAM | 36 | 20 | 16.91 | 16.83 | 16.62 | | | | |
| 15 | 64QAM | 36 | 39 | 16.86 | 16.87 | 16.69 | | | | |
| 15 | 64QAM | 75 | 0 | 16.89 | 16.83 | 16.80 | 17 | 0 | | |
| Channel | | | | 26090 | 26340 | 26640 | | | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1855 | 1880 | 1910 | | | 17 | 0 |
| 10 | QPSK | 1 | 0 | 16.96 | 16.88 | 16.79 | | | | |
| 10 | QPSK | 1 | 25 | 16.66 | 16.61 | 16.81 | | | | |
| 10 | QPSK | 1 | 49 | 16.59 | 16.66 | 16.83 | 17 | 0 | | |
| 10 | QPSK | 25 | 0 | 16.90 | 16.76 | 16.86 | | | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 16.87 | 16.78 | 16.76 | | |
| 10 | QPSK | 25 | 25 | 16.84 | 16.81 | 16.76 | | |
| 10 | QPSK | 50 | 0 | 16.90 | 16.83 | 16.81 | | |
| 10 | 16QAM | 1 | 0 | 16.81 | 16.88 | 16.88 | 17 | 0 |
| 10 | 16QAM | 1 | 25 | 16.61 | 16.61 | 16.75 | | |
| 10 | 16QAM | 1 | 49 | 16.55 | 16.69 | 16.69 | | |
| 10 | 16QAM | 25 | 0 | 16.96 | 16.76 | 16.90 | 17 | 0 |
| 10 | 16QAM | 25 | 12 | 16.90 | 16.74 | 16.89 | | |
| 10 | 16QAM | 25 | 25 | 16.94 | 16.82 | 16.53 | | |
| 10 | 16QAM | 50 | 0 | 16.90 | 16.78 | 16.85 | | |
| 10 | 64QAM | 1 | 0 | 16.90 | 16.87 | 16.89 | 17 | 0 |
| 10 | 64QAM | 1 | 25 | 16.82 | 16.79 | 16.69 | | |
| 10 | 64QAM | 1 | 49 | 16.89 | 16.74 | 16.79 | | |
| 10 | 64QAM | 25 | 0 | 16.87 | 16.86 | 16.91 | 17 | 0 |
| 10 | 64QAM | 25 | 12 | 16.89 | 16.86 | 16.69 | | |
| 10 | 64QAM | 25 | 25 | 16.82 | 16.79 | 16.68 | | |
| 10 | 64QAM | 50 | 0 | 16.87 | 16.83 | 16.73 | | |
| Channel | | | | 26065 | 26340 | 26665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1912.5 | | |
| 5 | QPSK | 1 | 0 | 16.94 | 16.82 | 16.75 | 17 | 0 |
| 5 | QPSK | 1 | 12 | 16.61 | 16.62 | 16.79 | | |
| 5 | QPSK | 1 | 24 | 16.61 | 16.69 | 16.81 | | |
| 5 | QPSK | 12 | 0 | 16.89 | 16.86 | 16.90 | 17 | 0 |
| 5 | QPSK | 12 | 7 | 16.82 | 16.76 | 16.69 | | |
| 5 | QPSK | 12 | 13 | 16.79 | 16.78 | 16.83 | | |
| 5 | QPSK | 25 | 0 | 16.84 | 16.85 | 16.76 | | |
| 5 | 16QAM | 1 | 0 | 16.73 | 16.82 | 16.89 | 17 | 0 |
| 5 | 16QAM | 1 | 12 | 16.69 | 16.71 | 16.75 | | |
| 5 | 16QAM | 1 | 24 | 16.49 | 16.64 | 16.71 | | |
| 5 | 16QAM | 12 | 0 | 16.88 | 16.84 | 16.94 | 17 | 0 |
| 5 | 16QAM | 12 | 7 | 16.90 | 16.84 | 16.87 | | |
| 5 | 16QAM | 12 | 13 | 16.88 | 16.80 | 16.50 | | |
| 5 | 16QAM | 25 | 0 | 16.89 | 16.78 | 16.89 | | |
| 5 | 64QAM | 1 | 0 | 16.88 | 16.93 | 16.94 | 17 | 0 |
| 5 | 64QAM | 1 | 12 | 16.84 | 16.78 | 16.74 | | |
| 5 | 64QAM | 1 | 24 | 16.94 | 16.72 | 16.71 | | |
| 5 | 64QAM | 12 | 0 | 16.97 | 16.82 | 16.88 | 17 | 0 |
| 5 | 64QAM | 12 | 7 | 16.90 | 16.82 | 16.69 | | |
| 5 | 64QAM | 12 | 13 | 16.85 | 16.86 | 16.64 | | |
| 5 | 64QAM | 25 | 0 | 16.87 | 16.77 | 16.71 | | |
| Channel | | | | 26055 | 26340 | 26675 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1851.5 | 1880 | 1913.5 | | |
| 3 | QPSK | 1 | 0 | 16.95 | 16.81 | 16.77 | 17 | 0 |
| 3 | QPSK | 1 | 8 | 16.61 | 16.61 | 16.75 | | |
| 3 | QPSK | 1 | 14 | 16.64 | 16.64 | 16.85 | | |
| 3 | QPSK | 8 | 0 | 16.94 | 16.76 | 16.90 | 17 | 0 |
| 3 | QPSK | 8 | 4 | 16.86 | 16.75 | 16.73 | | |
| 3 | QPSK | 8 | 7 | 16.85 | 16.75 | 16.80 | | |
| 3 | QPSK | 15 | 0 | 16.87 | 16.86 | 16.84 | | |
| 3 | 16QAM | 1 | 0 | 16.82 | 16.84 | 16.84 | 17 | 0 |
| 3 | 16QAM | 1 | 8 | 16.61 | 16.66 | 16.76 | | |
| 3 | 16QAM | 1 | 14 | 16.57 | 16.62 | 16.67 | | |
| 3 | 16QAM | 8 | 0 | 16.96 | 16.80 | 16.90 | 17 | 0 |
| 3 | 16QAM | 8 | 4 | 16.88 | 16.77 | 16.89 | | |
| 3 | 16QAM | 8 | 7 | 16.92 | 16.85 | 16.48 | | |
| 3 | 16QAM | 15 | 0 | 16.82 | 16.80 | 16.85 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 16.89 | 16.90 | 16.90 | 17 | 0 |
| 3 | 64QAM | 1 | 8 | 16.87 | 16.85 | 16.74 | | |
| 3 | 64QAM | 1 | 14 | 16.89 | 16.71 | 16.73 | | |
| 3 | 64QAM | 8 | 0 | 16.91 | 16.86 | 16.90 | 17 | 0 |
| 3 | 64QAM | 8 | 4 | 16.93 | 16.82 | 16.67 | | |
| 3 | 64QAM | 8 | 7 | 16.89 | 16.82 | 16.64 | | |
| 3 | 64QAM | 15 | 0 | 16.84 | 16.75 | 16.72 | | |
| Channel | | | | 26047 | 26340 | 26683 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1850.7 | 1880 | 1914.3 | | |
| 1.4 | QPSK | 1 | 0 | 16.98 | 16.81 | 16.78 | 17 | 0 |
| 1.4 | QPSK | 1 | 3 | 16.68 | 16.60 | 16.74 | | |
| 1.4 | QPSK | 1 | 5 | 16.58 | 16.73 | 16.88 | | |
| 1.4 | QPSK | 3 | 0 | 16.90 | 16.84 | 16.90 | | |
| 1.4 | QPSK | 3 | 1 | 16.89 | 16.82 | 16.70 | | |
| 1.4 | QPSK | 3 | 3 | 16.83 | 16.83 | 16.83 | | |
| 1.4 | QPSK | 6 | 0 | 16.87 | 16.85 | 16.79 | 17 | 0 |
| 1.4 | 16QAM | 1 | 0 | 16.75 | 16.86 | 16.84 | 17 | 0 |
| 1.4 | 16QAM | 1 | 3 | 16.64 | 16.63 | 16.78 | | |
| 1.4 | 16QAM | 1 | 5 | 16.49 | 16.69 | 16.75 | | |
| 1.4 | 16QAM | 3 | 0 | 16.88 | 16.82 | 16.88 | | |
| 1.4 | 16QAM | 3 | 1 | 16.94 | 16.81 | 16.88 | | |
| 1.4 | 16QAM | 3 | 3 | 16.92 | 16.85 | 16.50 | | |
| 1.4 | 16QAM | 6 | 0 | 16.85 | 16.80 | 16.83 | 17 | 0 |
| 1.4 | 64QAM | 1 | 0 | 16.97 | 16.88 | 16.90 | 17 | 0 |
| 1.4 | 64QAM | 1 | 3 | 16.79 | 16.88 | 16.74 | | |
| 1.4 | 64QAM | 1 | 5 | 16.88 | 16.70 | 16.77 | | |
| 1.4 | 64QAM | 3 | 0 | 16.91 | 16.82 | 16.89 | | |
| 1.4 | 64QAM | 3 | 1 | 16.87 | 16.83 | 16.68 | | |
| 1.4 | 64QAM | 3 | 3 | 16.89 | 16.85 | 16.67 | | |
| 1.4 | 64QAM | 6 | 0 | 16.84 | 16.77 | 16.73 | 17 | 0 |



<LTE Band 30>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 27710 | | | 17.5 | 0 |
| Frequency (MHz) | | | | 2310 | | | | |
| 10 | QPSK | 1 | 0 | | 16.41 | | 17.5 | 0 |
| 10 | QPSK | 1 | 25 | | 16.23 | | | |
| 10 | QPSK | 1 | 49 | | 16.01 | | | |
| 10 | QPSK | 25 | 0 | | 16.14 | | 17.5 | 0 |
| 10 | QPSK | 25 | 12 | | 16.04 | | | |
| 10 | QPSK | 25 | 25 | | 16.02 | | | |
| 10 | QPSK | 50 | 0 | | 16.13 | | 17.5 | 0 |
| 10 | 16QAM | 1 | 0 | | 16.13 | | | |
| 10 | 16QAM | 1 | 25 | | 16.14 | | | |
| 10 | 16QAM | 1 | 49 | | 16.11 | | 17.5 | 0 |
| 10 | 16QAM | 25 | 0 | | 16.01 | | | |
| 10 | 16QAM | 25 | 12 | | 16.09 | | | |
| 10 | 16QAM | 25 | 25 | | 16.12 | | 17.5 | 0 |
| 10 | 16QAM | 50 | 0 | | 16.04 | | | |
| 10 | 64QAM | 1 | 0 | | 16.15 | | | |
| 10 | 64QAM | 1 | 25 | | 16.28 | | 17.5 | 0 |
| 10 | 64QAM | 1 | 49 | | 16.28 | | | |
| 10 | 64QAM | 25 | 0 | | 16.03 | | | |
| 10 | 64QAM | 25 | 12 | | 16.07 | | 17.5 | 0 |
| 10 | 64QAM | 25 | 25 | | 16.19 | | | |
| 10 | 64QAM | 50 | 0 | | 16.11 | | | |
| Channel | | | | 27685 | 27710 | 27735 | 17.5 | 0 |
| Frequency (MHz) | | | | 2307.5 | 2310 | 2312.5 | | |
| 5 | QPSK | 1 | 0 | 16.39 | 16.38 | 16.33 | 17.5 | 0 |
| 5 | QPSK | 1 | 12 | 16.16 | 16.15 | 16.17 | | |
| 5 | QPSK | 1 | 24 | 16.00 | 15.92 | 15.96 | | |
| 5 | QPSK | 12 | 0 | 16.10 | 16.13 | 16.11 | 17.5 | 0 |
| 5 | QPSK | 12 | 7 | 16.00 | 16.04 | 16.03 | | |
| 5 | QPSK | 12 | 13 | 15.99 | 15.96 | 15.98 | | |
| 5 | QPSK | 25 | 0 | 15.97 | 15.98 | 15.99 | 17.5 | 0 |
| 5 | 16QAM | 1 | 0 | 16.05 | 16.12 | 16.04 | | |
| 5 | 16QAM | 1 | 12 | 16.04 | 16.10 | 16.11 | | |
| 5 | 16QAM | 1 | 24 | 16.11 | 16.05 | 16.11 | 17.5 | 0 |
| 5 | 16QAM | 12 | 0 | 15.92 | 15.94 | 15.93 | | |
| 5 | 16QAM | 12 | 7 | 16.02 | 16.09 | 15.99 | | |
| 5 | 16QAM | 12 | 13 | 16.04 | 16.06 | 16.02 | 17.5 | 0 |
| 5 | 16QAM | 25 | 0 | 16.00 | 15.95 | 15.94 | | |
| 5 | 64QAM | 1 | 0 | 16.11 | 16.05 | 16.09 | | |
| 5 | 64QAM | 1 | 12 | 16.26 | 16.23 | 16.25 | 17.5 | 0 |
| 5 | 64QAM | 1 | 24 | 16.28 | 16.28 | 16.18 | | |
| 5 | 64QAM | 12 | 0 | 16.03 | 15.99 | 15.95 | | |
| 5 | 64QAM | 12 | 7 | 15.98 | 15.98 | 16.06 | 17.5 | 0 |
| 5 | 64QAM | 12 | 13 | 16.13 | 16.11 | 16.18 | | |
| 5 | 64QAM | 25 | 0 | 16.01 | 16.04 | 16.08 | | |



<LTE Band 66>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 132072 | 132322 | 132572 | 17 | 0 |
| Frequency (MHz) | | | | 1720 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 16.55 | 16.53 | 16.40 | | |
| 20 | QPSK | 1 | 49 | 16.08 | 16.07 | 15.90 | 17 | 0 |
| 20 | QPSK | 1 | 99 | 16.12 | 16.06 | 15.79 | | |
| 20 | QPSK | 50 | 0 | 16.25 | 16.18 | 16.04 | | |
| 20 | QPSK | 50 | 24 | 16.16 | 16.16 | 16.04 | 17 | 0 |
| 20 | QPSK | 50 | 50 | 16.21 | 16.18 | 15.94 | | |
| 20 | QPSK | 100 | 0 | 16.21 | 16.13 | 16.06 | | |
| 20 | 16QAM | 1 | 0 | 16.45 | 16.52 | 16.40 | 17 | 0 |
| 20 | 16QAM | 1 | 49 | 16.46 | 16.44 | 16.21 | | |
| 20 | 16QAM | 1 | 99 | 16.38 | 16.43 | 16.10 | | |
| 20 | 16QAM | 50 | 0 | 16.20 | 16.21 | 16.03 | 17 | 0 |
| 20 | 16QAM | 50 | 24 | 16.27 | 16.18 | 16.06 | | |
| 20 | 16QAM | 50 | 50 | 16.23 | 16.22 | 15.99 | | |
| 20 | 16QAM | 100 | 0 | 16.24 | 16.16 | 16.07 | 17 | 0 |
| 20 | 64QAM | 1 | 0 | 16.37 | 16.32 | 16.25 | | |
| 20 | 64QAM | 1 | 49 | 16.36 | 16.29 | 16.12 | | |
| 20 | 64QAM | 1 | 99 | 16.30 | 16.31 | 16.05 | 17 | 0 |
| 20 | 64QAM | 50 | 0 | 16.21 | 16.23 | 16.07 | | |
| 20 | 64QAM | 50 | 24 | 16.29 | 16.18 | 16.07 | | |
| 20 | 64QAM | 50 | 50 | 16.21 | 16.19 | 15.97 | 17 | 0 |
| 20 | 64QAM | 100 | 0 | 16.26 | 16.17 | 16.03 | | |
| Channel | | | | 132047 | 132322 | 132597 | | |
| Frequency (MHz) | | | | 1717.5 | 1745 | 1772.5 | | |
| 15 | QPSK | 1 | 0 | 16.45 | 16.45 | 16.36 | 17 | 0 |
| 15 | QPSK | 1 | 37 | 16.04 | 15.99 | 15.83 | | |
| 15 | QPSK | 1 | 74 | 16.09 | 16.05 | 15.74 | | |
| 15 | QPSK | 36 | 0 | 16.17 | 16.12 | 15.98 | 17 | 0 |
| 15 | QPSK | 36 | 20 | 16.06 | 16.11 | 16.02 | | |
| 15 | QPSK | 36 | 39 | 16.15 | 16.08 | 15.87 | | |
| 15 | QPSK | 75 | 0 | 16.16 | 16.03 | 16.03 | 17 | 0 |
| 15 | 16QAM | 1 | 0 | 16.36 | 16.46 | 16.30 | | |
| 15 | 16QAM | 1 | 37 | 16.36 | 16.36 | 16.15 | | |
| 15 | 16QAM | 1 | 74 | 16.29 | 16.43 | 16.07 | 17 | 0 |
| 15 | 16QAM | 36 | 0 | 16.11 | 16.20 | 15.99 | | |
| 15 | 16QAM | 36 | 20 | 16.19 | 16.14 | 15.99 | | |
| 15 | 16QAM | 36 | 39 | 16.16 | 16.21 | 15.89 | 17 | 0 |
| 15 | 16QAM | 75 | 0 | 16.16 | 16.13 | 15.99 | | |
| 15 | 64QAM | 1 | 0 | 16.31 | 16.24 | 16.15 | | |
| 15 | 64QAM | 1 | 37 | 16.32 | 16.22 | 16.06 | 17 | 0 |
| 15 | 64QAM | 1 | 74 | 16.24 | 16.27 | 16.03 | | |
| 15 | 64QAM | 36 | 0 | 16.14 | 16.23 | 15.97 | | |
| 15 | 64QAM | 36 | 20 | 16.23 | 16.17 | 16.02 | 17 | 0 |
| 15 | 64QAM | 36 | 39 | 16.13 | 16.18 | 15.91 | | |
| 15 | 64QAM | 75 | 0 | 16.25 | 16.09 | 16.02 | | |
| Channel | | | | 132022 | 132322 | 132622 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1715 | 1745 | 1775 | | |
| 10 | QPSK | 1 | 0 | 16.45 | 16.43 | 16.40 | 17 | 0 |
| 10 | QPSK | 1 | 25 | 16.00 | 15.97 | 15.90 | | |
| 10 | QPSK | 1 | 49 | 16.11 | 16.02 | 15.78 | | |
| 10 | QPSK | 25 | 0 | 16.22 | 16.10 | 16.04 | 17 | 0 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 16.10 | 16.12 | 16.03 | | |
| 10 | QPSK | 25 | 25 | 16.20 | 16.13 | 15.92 | | |
| 10 | QPSK | 50 | 0 | 16.15 | 16.12 | 16.01 | | |
| 10 | 16QAM | 1 | 0 | 16.40 | 16.44 | 16.36 | 17 | 0 |
| 10 | 16QAM | 1 | 25 | 16.39 | 16.34 | 16.20 | | |
| 10 | 16QAM | 1 | 49 | 16.28 | 16.40 | 16.10 | | |
| 10 | 16QAM | 25 | 0 | 16.15 | 16.17 | 15.96 | 17 | 0 |
| 10 | 16QAM | 25 | 12 | 16.20 | 16.13 | 16.04 | | |
| 10 | 16QAM | 25 | 25 | 16.15 | 16.15 | 15.93 | | |
| 10 | 16QAM | 50 | 0 | 16.18 | 16.12 | 16.03 | | |
| 10 | 64QAM | 1 | 0 | 16.34 | 16.26 | 16.22 | 17 | 0 |
| 10 | 64QAM | 1 | 25 | 16.28 | 16.19 | 16.08 | | |
| 10 | 64QAM | 1 | 49 | 16.25 | 16.29 | 15.95 | | |
| 10 | 64QAM | 25 | 0 | 16.17 | 16.18 | 16.04 | 17 | 0 |
| 10 | 64QAM | 25 | 12 | 16.26 | 16.13 | 16.05 | | |
| 10 | 64QAM | 25 | 25 | 16.12 | 16.19 | 15.97 | | |
| 10 | 64QAM | 50 | 0 | 16.17 | 16.13 | 16.01 | | |
| Channel | | | | 131997 | 132322 | 132647 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1712.5 | 1745 | 1777.5 | | |
| 5 | QPSK | 1 | 0 | 16.47 | 16.44 | 16.36 | 17 | 0 |
| 5 | QPSK | 1 | 12 | 16.07 | 16.06 | 15.89 | | |
| 5 | QPSK | 1 | 24 | 16.02 | 16.06 | 15.69 | | |
| 5 | QPSK | 12 | 0 | 16.18 | 16.18 | 15.98 | 17 | 0 |
| 5 | QPSK | 12 | 7 | 16.06 | 16.10 | 15.99 | | |
| 5 | QPSK | 12 | 13 | 16.18 | 16.11 | 15.85 | | |
| 5 | QPSK | 25 | 0 | 16.19 | 16.08 | 16.01 | | |
| 5 | 16QAM | 1 | 0 | 16.44 | 16.47 | 16.35 | | |
| 5 | 16QAM | 1 | 12 | 16.40 | 16.35 | 16.16 | | |
| 5 | 16QAM | 1 | 24 | 16.36 | 16.36 | 16.03 | 17 | 0 |
| 5 | 16QAM | 12 | 0 | 16.17 | 16.20 | 15.98 | | |
| 5 | 16QAM | 12 | 7 | 16.21 | 16.17 | 15.99 | | |
| 5 | 16QAM | 12 | 13 | 16.14 | 16.12 | 15.95 | | |
| 5 | 16QAM | 25 | 0 | 16.16 | 16.14 | 16.01 | | |
| 5 | 64QAM | 1 | 0 | 16.30 | 16.22 | 16.15 | | |
| 5 | 64QAM | 1 | 12 | 16.30 | 16.19 | 16.03 | 17 | 0 |
| 5 | 64QAM | 1 | 24 | 16.30 | 16.23 | 15.95 | | |
| 5 | 64QAM | 12 | 0 | 16.14 | 16.15 | 16.02 | | |
| 5 | 64QAM | 12 | 7 | 16.23 | 16.10 | 15.98 | 17 | 0 |
| 5 | 64QAM | 12 | 13 | 16.16 | 16.15 | 15.97 | | |
| 5 | 64QAM | 25 | 0 | 16.24 | 16.12 | 15.99 | | |
| 5 | 64QAM | 25 | 0 | 16.24 | 16.12 | 15.99 | | |
| Channel | | | | 131987 | 132322 | 132657 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1711.5 | 1745 | 1778.5 | | |
| 3 | QPSK | 1 | 0 | 16.52 | 16.48 | 16.30 | 17 | 0 |
| 3 | QPSK | 1 | 8 | 16.00 | 16.06 | 15.90 | | |
| 3 | QPSK | 1 | 14 | 16.07 | 16.04 | 15.74 | | |
| 3 | QPSK | 8 | 0 | 16.25 | 16.13 | 16.00 | 17 | 0 |
| 3 | QPSK | 8 | 4 | 16.09 | 16.08 | 16.04 | | |
| 3 | QPSK | 8 | 7 | 16.16 | 16.10 | 15.91 | | |
| 3 | QPSK | 15 | 0 | 16.12 | 16.09 | 16.02 | | |
| 3 | 16QAM | 1 | 0 | 16.36 | 16.45 | 16.39 | 17 | 0 |
| 3 | 16QAM | 1 | 8 | 16.40 | 16.37 | 16.20 | | |
| 3 | 16QAM | 1 | 14 | 16.31 | 16.37 | 16.02 | | |
| 3 | 16QAM | 8 | 0 | 16.20 | 16.19 | 16.01 | 17 | 0 |
| 3 | 16QAM | 8 | 4 | 16.21 | 16.10 | 15.99 | | |
| 3 | 16QAM | 8 | 7 | 16.17 | 16.21 | 15.89 | | |
| 3 | 16QAM | 15 | 0 | 16.17 | 16.15 | 15.99 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 16.27 | 16.24 | 16.23 | 17 | 0 |
| 3 | 64QAM | 1 | 8 | 16.29 | 16.22 | 16.09 | | |
| 3 | 64QAM | 1 | 14 | 16.25 | 16.29 | 15.96 | | |
| 3 | 64QAM | 8 | 0 | 16.14 | 16.18 | 16.06 | 17 | 0 |
| 3 | 64QAM | 8 | 4 | 16.20 | 16.17 | 16.04 | | |
| 3 | 64QAM | 8 | 7 | 16.16 | 16.18 | 15.87 | | |
| 3 | 64QAM | 15 | 0 | 16.25 | 16.15 | 15.99 | | |
| Channel | | | | 131979 | 132322 | 132665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1710.7 | 1745 | 1779.3 | | |
| 1.4 | QPSK | 1 | 0 | 16.49 | 16.53 | 16.38 | 17 | 0 |
| 1.4 | QPSK | 1 | 3 | 16.04 | 16.02 | 15.90 | | |
| 1.4 | QPSK | 1 | 5 | 16.05 | 15.98 | 15.70 | | |
| 1.4 | QPSK | 3 | 0 | 16.23 | 16.09 | 16.04 | | |
| 1.4 | QPSK | 3 | 1 | 16.09 | 16.16 | 16.04 | | |
| 1.4 | QPSK | 3 | 3 | 16.20 | 16.16 | 15.93 | | |
| 1.4 | QPSK | 6 | 0 | 16.19 | 16.12 | 16.06 | 17 | 0 |
| 1.4 | 16QAM | 1 | 0 | 16.41 | 16.48 | 16.36 | 17 | 0 |
| 1.4 | 16QAM | 1 | 3 | 16.39 | 16.44 | 16.14 | | |
| 1.4 | 16QAM | 1 | 5 | 16.28 | 16.33 | 16.05 | | |
| 1.4 | 16QAM | 3 | 0 | 16.20 | 16.20 | 15.96 | | |
| 1.4 | 16QAM | 3 | 1 | 16.24 | 16.16 | 16.03 | | |
| 1.4 | 16QAM | 3 | 3 | 16.18 | 16.12 | 15.99 | | |
| 1.4 | 16QAM | 6 | 0 | 16.20 | 16.07 | 16.04 | 17 | 0 |
| 1.4 | 64QAM | 1 | 0 | 16.33 | 16.26 | 16.18 | 17 | 0 |
| 1.4 | 64QAM | 1 | 3 | 16.32 | 16.29 | 16.02 | | |
| 1.4 | 64QAM | 1 | 5 | 16.28 | 16.30 | 16.05 | | |
| 1.4 | 64QAM | 3 | 0 | 16.17 | 16.23 | 15.99 | | |
| 1.4 | 64QAM | 3 | 1 | 16.20 | 16.14 | 16.00 | | |
| 1.4 | 64QAM | 3 | 3 | 16.21 | 16.18 | 15.90 | | |
| 1.4 | 64QAM | 6 | 0 | 16.26 | 16.11 | 16.02 | 17 | 0 |



<Reduced Power on Product Specific Mode>

<LTE Band 2>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 18700 | 18900 | 19100 | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1900 | | |
| 20 | QPSK | 1 | 0 | 21.51 | 21.50 | 21.74 | | |
| 20 | QPSK | 1 | 49 | 21.35 | 21.29 | 21.40 | 22.5 | 0 |
| 20 | QPSK | 1 | 99 | 21.33 | 21.42 | 21.46 | | |
| 20 | QPSK | 50 | 0 | 21.52 | 21.49 | 21.63 | | |
| 20 | QPSK | 50 | 24 | 21.53 | 21.49 | 21.53 | 22.5 | 0 |
| 20 | QPSK | 50 | 50 | 21.50 | 21.48 | 21.60 | | |
| 20 | QPSK | 100 | 0 | 21.53 | 21.49 | 21.55 | | |
| 20 | 16QAM | 1 | 0 | 21.76 | 21.69 | 21.72 | 22.5 | 0 |
| 20 | 16QAM | 1 | 49 | 21.68 | 21.68 | 21.77 | | |
| 20 | 16QAM | 1 | 99 | 21.63 | 21.76 | 21.83 | | |
| 20 | 16QAM | 50 | 0 | 21.00 | 20.89 | 20.96 | 22 | 0.5 |
| 20 | 16QAM | 50 | 24 | 21.01 | 20.98 | 21.11 | | |
| 20 | 16QAM | 50 | 50 | 21.01 | 21.02 | 21.14 | | |
| 20 | 16QAM | 100 | 0 | 20.99 | 20.95 | 20.99 | 22 | 0.5 |
| 20 | 64QAM | 1 | 0 | 21.12 | 21.03 | 21.24 | | |
| 20 | 64QAM | 1 | 49 | 21.08 | 20.95 | 21.09 | | |
| 20 | 64QAM | 1 | 99 | 21.02 | 21.06 | 21.04 | 21 | 1.5 |
| 20 | 64QAM | 50 | 0 | 19.99 | 19.96 | 20.01 | | |
| 20 | 64QAM | 50 | 24 | 20.10 | 19.98 | 20.14 | | |
| 20 | 64QAM | 50 | 50 | 20.06 | 20.04 | 20.07 | 21 | 1.5 |
| 20 | 64QAM | 100 | 0 | 20.01 | 19.98 | 20.02 | | |
| Channel | | | | 18675 | 18900 | 19125 | | |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1902.5 | | |
| 15 | QPSK | 1 | 0 | 21.51 | 21.48 | 21.74 | 22.5 | 0 |
| 15 | QPSK | 1 | 37 | 21.30 | 21.29 | 21.39 | | |
| 15 | QPSK | 1 | 74 | 21.23 | 21.41 | 21.38 | | |
| 15 | QPSK | 36 | 0 | 21.43 | 21.47 | 21.60 | 22.5 | 0 |
| 15 | QPSK | 36 | 20 | 21.48 | 21.48 | 21.46 | | |
| 15 | QPSK | 36 | 39 | 21.43 | 21.39 | 21.56 | | |
| 15 | QPSK | 75 | 0 | 21.46 | 21.43 | 21.52 | 22.5 | 0 |
| 15 | 16QAM | 1 | 0 | 21.67 | 21.67 | 21.65 | | |
| 15 | 16QAM | 1 | 37 | 21.58 | 21.59 | 21.69 | | |
| 15 | 16QAM | 1 | 74 | 21.59 | 21.70 | 21.76 | 22 | 0.5 |
| 15 | 16QAM | 36 | 0 | 20.96 | 20.89 | 21.00 | | |
| 15 | 16QAM | 36 | 20 | 21.02 | 21.02 | 21.08 | | |
| 15 | 16QAM | 36 | 39 | 20.96 | 20.98 | 21.14 | 22 | 0.5 |
| 15 | 16QAM | 75 | 0 | 20.99 | 21.02 | 20.99 | | |
| 15 | 64QAM | 1 | 0 | 21.14 | 21.00 | 21.17 | | |
| 15 | 64QAM | 1 | 37 | 21.02 | 21.02 | 21.11 | 22 | 0.5 |
| 15 | 64QAM | 1 | 74 | 21.04 | 21.10 | 21.01 | | |
| 15 | 64QAM | 36 | 0 | 19.96 | 19.92 | 20.05 | | |
| 15 | 64QAM | 36 | 20 | 20.07 | 20.02 | 20.17 | 21 | 1.5 |
| 15 | 64QAM | 36 | 39 | 19.99 | 19.97 | 20.09 | | |
| 15 | 64QAM | 75 | 0 | 20.08 | 19.95 | 20.02 | | |
| Channel | | | | 18650 | 18900 | 19150 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1855 | 1880 | 1905 | | |
| 10 | QPSK | 1 | 0 | 21.51 | 21.42 | 21.70 | 22.5 | 0 |
| 10 | QPSK | 1 | 25 | 21.26 | 21.24 | 21.33 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 1 | 49 | 21.25 | 21.40 | 21.41 | | |
| 10 | QPSK | 25 | 0 | 21.47 | 21.44 | 21.61 | 22.5 | 0 |
| 10 | QPSK | 25 | 12 | 21.44 | 21.47 | 21.47 | | |
| 10 | QPSK | 25 | 25 | 21.47 | 21.47 | 21.54 | | |
| 10 | QPSK | 50 | 0 | 21.51 | 21.39 | 21.53 | | |
| 10 | 16QAM | 1 | 0 | 21.66 | 21.64 | 21.63 | 22.5 | 0 |
| 10 | 16QAM | 1 | 25 | 21.59 | 21.59 | 21.75 | | |
| 10 | 16QAM | 1 | 49 | 21.63 | 21.72 | 21.61 | | |
| 10 | 16QAM | 25 | 0 | 21.00 | 20.91 | 20.99 | 22 | 0.5 |
| 10 | 16QAM | 25 | 12 | 21.01 | 20.98 | 21.05 | | |
| 10 | 16QAM | 25 | 25 | 21.01 | 20.98 | 21.12 | | |
| 10 | 16QAM | 50 | 0 | 21.05 | 20.93 | 21.05 | | |
| 10 | 64QAM | 1 | 0 | 21.14 | 21.02 | 21.20 | 22 | 0.5 |
| 10 | 64QAM | 1 | 25 | 21.05 | 21.00 | 21.17 | | |
| 10 | 64QAM | 1 | 49 | 20.99 | 21.12 | 21.11 | | |
| 10 | 64QAM | 25 | 0 | 19.93 | 19.95 | 20.01 | 21 | 1.5 |
| 10 | 64QAM | 25 | 12 | 20.08 | 19.99 | 20.17 | | |
| 10 | 64QAM | 25 | 25 | 20.06 | 20.03 | 20.08 | | |
| 10 | 64QAM | 50 | 0 | 20.05 | 19.96 | 20.00 | | |
| Channel | | | | 18625 | 18900 | 19175 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1907.5 | | |
| 5 | QPSK | 1 | 0 | 21.50 | 21.42 | 21.69 | 22.5 | 0 |
| 5 | QPSK | 1 | 12 | 21.35 | 21.20 | 21.37 | | |
| 5 | QPSK | 1 | 24 | 21.24 | 21.42 | 21.42 | | |
| 5 | QPSK | 12 | 0 | 21.51 | 21.42 | 21.62 | 22.5 | 0 |
| 5 | QPSK | 12 | 7 | 21.46 | 21.45 | 21.52 | | |
| 5 | QPSK | 12 | 13 | 21.49 | 21.39 | 21.59 | | |
| 5 | QPSK | 25 | 0 | 21.47 | 21.40 | 21.46 | | |
| 5 | 16QAM | 1 | 0 | 21.67 | 21.63 | 21.66 | 22.5 | 0 |
| 5 | 16QAM | 1 | 12 | 21.59 | 21.60 | 21.69 | | |
| 5 | 16QAM | 1 | 24 | 21.60 | 21.66 | 21.71 | | |
| 5 | 16QAM | 12 | 0 | 20.98 | 20.92 | 20.96 | 22 | 0.5 |
| 5 | 16QAM | 12 | 7 | 21.00 | 21.04 | 21.11 | | |
| 5 | 16QAM | 12 | 13 | 21.04 | 20.98 | 21.12 | | |
| 5 | 16QAM | 25 | 0 | 21.00 | 21.02 | 21.05 | | |
| 5 | 64QAM | 1 | 0 | 21.18 | 21.00 | 21.24 | 22 | 0.5 |
| 5 | 64QAM | 1 | 12 | 21.07 | 20.95 | 21.07 | | |
| 5 | 64QAM | 1 | 24 | 21.03 | 21.09 | 21.06 | | |
| 5 | 64QAM | 12 | 0 | 19.99 | 19.88 | 20.06 | 21 | 1.5 |
| 5 | 64QAM | 12 | 7 | 20.13 | 19.98 | 20.17 | | |
| 5 | 64QAM | 12 | 13 | 20.01 | 20.02 | 20.05 | | |
| 5 | 64QAM | 25 | 0 | 20.02 | 20.01 | 20.02 | | |
| Channel | | | | 18615 | 18900 | 19185 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1851.5 | 1880 | 1908.5 | | |
| 3 | QPSK | 1 | 0 | 21.49 | 21.47 | 21.67 | 22.5 | 0 |
| 3 | QPSK | 1 | 8 | 21.28 | 21.23 | 21.31 | | |
| 3 | QPSK | 1 | 14 | 21.24 | 21.39 | 21.46 | | |
| 3 | QPSK | 8 | 0 | 21.45 | 21.46 | 21.56 | 22.5 | 0 |
| 3 | QPSK | 8 | 4 | 21.45 | 21.39 | 21.52 | | |
| 3 | QPSK | 8 | 7 | 21.41 | 21.40 | 21.58 | | |
| 3 | QPSK | 15 | 0 | 21.49 | 21.43 | 21.45 | | |
| 3 | 16QAM | 1 | 0 | 21.76 | 21.59 | 21.69 | 22.5 | 0 |
| 3 | 16QAM | 1 | 8 | 21.60 | 21.66 | 21.74 | | |
| 3 | 16QAM | 1 | 14 | 21.54 | 21.68 | 21.76 | | |
| 3 | 16QAM | 8 | 0 | 20.99 | 20.89 | 21.03 | 22 | 0.5 |
| 3 | 16QAM | 8 | 4 | 21.07 | 21.01 | 21.13 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|------------------------|-------------|
| 3 | 16QAM | 8 | 7 | 20.99 | 21.02 | 21.14 | | |
| 3 | 16QAM | 15 | 0 | 21.06 | 20.99 | 21.06 | | |
| 3 | 64QAM | 1 | 0 | 21.11 | 21.04 | 21.24 | 22 | 0.5 |
| 3 | 64QAM | 1 | 8 | 20.99 | 21.00 | 21.09 | | |
| 3 | 64QAM | 1 | 14 | 21.06 | 21.09 | 21.10 | | |
| 3 | 64QAM | 8 | 0 | 19.99 | 19.87 | 20.00 | 21 | 1.5 |
| 3 | 64QAM | 8 | 4 | 20.10 | 20.01 | 20.12 | | |
| 3 | 64QAM | 8 | 7 | 20.07 | 20.05 | 20.02 | | |
| 3 | 64QAM | 15 | 0 | 20.03 | 20.00 | 20.04 | | |
| Channel | | | | 18607 | 18900 | 19193 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1850.7 | 1880 | 1909.3 | | |
| 1.4 | QPSK | 1 | 0 | 21.51 | 21.40 | 21.67 | 22.5 | 0 |
| 1.4 | QPSK | 1 | 3 | 21.33 | 21.21 | 21.33 | | |
| 1.4 | QPSK | 1 | 5 | 21.31 | 21.34 | 21.43 | | |
| 1.4 | QPSK | 3 | 0 | 21.47 | 21.43 | 21.59 | | |
| 1.4 | QPSK | 3 | 1 | 21.53 | 21.39 | 21.45 | | |
| 1.4 | QPSK | 3 | 3 | 21.46 | 21.44 | 21.59 | | |
| 1.4 | QPSK | 6 | 0 | 21.53 | 21.48 | 21.54 | 22.5 | 0 |
| 1.4 | 16QAM | 1 | 0 | 21.66 | 21.61 | 21.71 | 22.5 | 0 |
| 1.4 | 16QAM | 1 | 3 | 21.60 | 21.66 | 21.76 | | |
| 1.4 | 16QAM | 1 | 5 | 21.53 | 21.73 | 21.75 | | |
| 1.4 | 16QAM | 3 | 0 | 21.45 | 21.46 | 21.56 | | |
| 1.4 | 16QAM | 3 | 1 | 21.45 | 21.39 | 21.52 | | |
| 1.4 | 16QAM | 3 | 3 | 21.41 | 21.40 | 21.58 | | |
| 1.4 | 16QAM | 6 | 0 | 21.51 | 21.40 | 21.48 | 22 | 0.5 |
| 1.4 | 64QAM | 1 | 0 | 20.92 | 20.96 | 21.06 | 22 | 0.5 |
| 1.4 | 64QAM | 1 | 3 | 21.03 | 21.03 | 21.14 | | |
| 1.4 | 64QAM | 1 | 5 | 21.04 | 20.93 | 21.15 | | |
| 1.4 | 64QAM | 3 | 0 | 21.07 | 21.03 | 21.01 | | |
| 1.4 | 64QAM | 3 | 1 | 21.14 | 21.01 | 21.17 | | |
| 1.4 | 64QAM | 3 | 3 | 20.99 | 20.96 | 21.17 | | |
| 1.4 | 64QAM | 6 | 0 | 20.12 | 19.95 | 20.15 | 21 | 1.5 |



<LTE Band 4>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 20050 | 20175 | 20300 | | |
| Frequency (MHz) | | | | 1720 | 1732.5 | 1745 | | |
| 20 | QPSK | 1 | 0 | 21.52 | 21.64 | 21.55 | 22 | 0 |
| 20 | QPSK | 1 | 49 | 21.03 | 21.06 | 20.93 | | |
| 20 | QPSK | 1 | 99 | 21.08 | 21.02 | 20.96 | | |
| 20 | QPSK | 50 | 0 | 21.52 | 21.55 | 21.53 | 22 | 0 |
| 20 | QPSK | 50 | 24 | 21.23 | 21.19 | 21.22 | | |
| 20 | QPSK | 50 | 50 | 21.21 | 21.19 | 21.13 | | |
| 20 | QPSK | 100 | 0 | 21.24 | 21.22 | 21.19 | 22 | 0 |
| 20 | 16QAM | 1 | 0 | 21.52 | 21.50 | 21.55 | | |
| 20 | 16QAM | 1 | 49 | 21.36 | 21.39 | 21.40 | | |
| 20 | 16QAM | 1 | 99 | 21.37 | 21.42 | 21.37 | 22 | 0 |
| 20 | 16QAM | 50 | 0 | 21.18 | 21.20 | 21.10 | | |
| 20 | 16QAM | 50 | 24 | 21.12 | 21.14 | 21.09 | | |
| 20 | 16QAM | 50 | 50 | 21.10 | 21.03 | 21.04 | 22 | 0 |
| 20 | 16QAM | 100 | 0 | 21.15 | 21.05 | 21.11 | | |
| 20 | 64QAM | 1 | 0 | 21.21 | 21.20 | 21.12 | | |
| 20 | 64QAM | 1 | 49 | 21.20 | 21.17 | 21.33 | 22 | 0 |
| 20 | 64QAM | 1 | 99 | 21.12 | 21.15 | 21.24 | | |
| 20 | 64QAM | 50 | 0 | 20.71 | 20.78 | 20.64 | | |
| 20 | 64QAM | 50 | 24 | 20.73 | 20.67 | 20.68 | 21 | 1 |
| 20 | 64QAM | 50 | 50 | 20.63 | 20.67 | 20.54 | | |
| 20 | 64QAM | 100 | 0 | 20.71 | 20.71 | 20.71 | | |
| Channel | | | | 20025 | 20175 | 20325 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1717.5 | 1732.5 | 1747.5 | | |
| 15 | QPSK | 1 | 0 | 21.43 | 21.59 | 21.45 | 22 | 0 |
| 15 | QPSK | 1 | 37 | 21.01 | 20.99 | 20.93 | | |
| 15 | QPSK | 1 | 74 | 21.07 | 21.02 | 20.89 | | |
| 15 | QPSK | 36 | 0 | 21.51 | 21.47 | 21.50 | 22 | 0 |
| 15 | QPSK | 36 | 20 | 21.20 | 21.09 | 21.18 | | |
| 15 | QPSK | 36 | 39 | 21.19 | 21.10 | 21.12 | | |
| 15 | QPSK | 75 | 0 | 21.21 | 21.19 | 21.10 | 22 | 0 |
| 15 | 16QAM | 1 | 0 | 21.51 | 21.45 | 21.53 | | |
| 15 | 16QAM | 1 | 37 | 21.26 | 21.36 | 21.34 | | |
| 15 | 16QAM | 1 | 74 | 21.32 | 21.41 | 21.29 | 22 | 0 |
| 15 | 16QAM | 36 | 0 | 21.12 | 21.16 | 21.05 | | |
| 15 | 16QAM | 36 | 20 | 21.15 | 21.09 | 21.16 | | |
| 15 | 16QAM | 36 | 39 | 21.04 | 21.05 | 21.05 | 22 | 0 |
| 15 | 16QAM | 75 | 0 | 21.09 | 21.13 | 21.08 | | |
| 15 | 64QAM | 1 | 0 | 21.16 | 21.20 | 21.19 | | |
| 15 | 64QAM | 1 | 37 | 21.14 | 21.13 | 21.34 | 22 | 0 |
| 15 | 64QAM | 1 | 74 | 21.22 | 21.17 | 21.23 | | |
| 15 | 64QAM | 36 | 0 | 20.75 | 20.77 | 20.69 | | |
| 15 | 64QAM | 36 | 20 | 20.76 | 20.73 | 20.66 | 21 | 1 |
| 15 | 64QAM | 36 | 39 | 20.65 | 20.65 | 20.54 | | |
| 15 | 64QAM | 75 | 0 | 20.77 | 20.74 | 20.70 | | |
| Channel | | | | 20000 | 20175 | 20350 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1715 | 1732.5 | 1750 | | |
| 10 | QPSK | 1 | 0 | 21.52 | 21.57 | 21.51 | 22 | 0 |
| 10 | QPSK | 1 | 25 | 20.93 | 20.98 | 20.91 | | |
| 10 | QPSK | 1 | 49 | 21.02 | 21.02 | 20.96 | | |
| 10 | QPSK | 25 | 0 | 21.47 | 21.53 | 21.49 | 22 | 0 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 21.13 | 21.17 | 21.18 | | |
| 10 | QPSK | 25 | 25 | 21.15 | 21.12 | 21.09 | | |
| 10 | QPSK | 50 | 0 | 21.16 | 21.22 | 21.19 | | |
| 10 | 16QAM | 1 | 0 | 21.48 | 21.40 | 21.52 | 22 | 0 |
| 10 | 16QAM | 1 | 25 | 21.29 | 21.29 | 21.31 | | |
| 10 | 16QAM | 1 | 49 | 21.35 | 21.36 | 21.28 | | |
| 10 | 16QAM | 25 | 0 | 21.17 | 21.21 | 21.04 | 22 | 0 |
| 10 | 16QAM | 25 | 12 | 21.16 | 21.14 | 21.09 | | |
| 10 | 16QAM | 25 | 25 | 21.06 | 21.02 | 20.98 | | |
| 10 | 16QAM | 50 | 0 | 21.16 | 21.12 | 21.07 | | |
| 10 | 64QAM | 1 | 0 | 21.16 | 21.16 | 21.11 | 22 | 0 |
| 10 | 64QAM | 1 | 25 | 21.21 | 21.15 | 21.35 | | |
| 10 | 64QAM | 1 | 49 | 21.21 | 21.14 | 21.25 | | |
| 10 | 64QAM | 25 | 0 | 20.66 | 20.83 | 20.71 | 21 | 1 |
| 10 | 64QAM | 25 | 12 | 20.72 | 20.68 | 20.63 | | |
| 10 | 64QAM | 25 | 25 | 20.69 | 20.61 | 20.54 | | |
| 10 | 64QAM | 50 | 0 | 20.69 | 20.69 | 20.69 | | |
| Channel | | | | 19975 | 20175 | 20375 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1712.5 | 1732.5 | 1752.5 | | |
| 5 | QPSK | 1 | 0 | 21.48 | 21.57 | 21.55 | 22 | 0 |
| 5 | QPSK | 1 | 12 | 21.01 | 21.06 | 20.93 | | |
| 5 | QPSK | 1 | 24 | 21.06 | 20.95 | 20.95 | | |
| 5 | QPSK | 12 | 0 | 21.48 | 21.48 | 21.48 | 22 | 0 |
| 5 | QPSK | 12 | 7 | 21.21 | 21.19 | 21.16 | | |
| 5 | QPSK | 12 | 13 | 21.19 | 21.12 | 21.06 | | |
| 5 | QPSK | 25 | 0 | 21.15 | 21.14 | 21.09 | | |
| 5 | 16QAM | 1 | 0 | 21.48 | 21.45 | 21.49 | 22 | 0 |
| 5 | 16QAM | 1 | 12 | 21.36 | 21.31 | 21.32 | | |
| 5 | 16QAM | 1 | 24 | 21.34 | 21.36 | 21.28 | | |
| 5 | 16QAM | 12 | 0 | 21.11 | 21.22 | 21.14 | 22 | 0 |
| 5 | 16QAM | 12 | 7 | 21.14 | 21.15 | 21.07 | | |
| 5 | 16QAM | 12 | 13 | 21.07 | 21.05 | 21.05 | | |
| 5 | 16QAM | 25 | 0 | 21.07 | 21.04 | 21.11 | | |
| 5 | 64QAM | 1 | 0 | 21.20 | 21.15 | 21.18 | 22 | 0 |
| 5 | 64QAM | 1 | 12 | 21.17 | 21.10 | 21.26 | | |
| 5 | 64QAM | 1 | 24 | 21.20 | 21.18 | 21.16 | | |
| 5 | 64QAM | 12 | 0 | 20.66 | 20.73 | 20.64 | 21 | 1 |
| 5 | 64QAM | 12 | 7 | 20.66 | 20.72 | 20.70 | | |
| 5 | 64QAM | 12 | 13 | 20.59 | 20.70 | 20.62 | | |
| 5 | 64QAM | 25 | 0 | 20.72 | 20.75 | 20.70 | | |
| Channel | | | | 19965 | 20175 | 20385 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1711.5 | 1732.5 | 1753.5 | | |
| 3 | QPSK | 1 | 0 | 21.51 | 21.54 | 21.45 | 22 | 0 |
| 3 | QPSK | 1 | 8 | 20.93 | 21.00 | 20.87 | | |
| 3 | QPSK | 1 | 14 | 21.06 | 21.01 | 20.89 | | |
| 3 | QPSK | 8 | 0 | 21.52 | 21.47 | 21.43 | 22 | 0 |
| 3 | QPSK | 8 | 4 | 21.19 | 21.13 | 21.12 | | |
| 3 | QPSK | 8 | 7 | 21.13 | 21.09 | 21.09 | | |
| 3 | QPSK | 15 | 0 | 21.17 | 21.18 | 21.16 | 22 | 0 |
| 3 | 16QAM | 1 | 0 | 21.44 | 21.40 | 21.47 | | |
| 3 | 16QAM | 1 | 8 | 21.30 | 21.31 | 21.30 | | |
| 3 | 16QAM | 1 | 14 | 21.37 | 21.40 | 21.35 | 22 | 0 |
| 3 | 16QAM | 8 | 0 | 21.09 | 21.15 | 21.05 | | |
| 3 | 16QAM | 8 | 4 | 21.12 | 21.06 | 21.09 | | |
| 3 | 16QAM | 8 | 7 | 21.07 | 21.10 | 20.96 | | |
| 3 | 16QAM | 15 | 0 | 21.13 | 21.03 | 21.10 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 21.20 | 21.17 | 21.12 | 22 | 0 |
| 3 | 64QAM | 1 | 8 | 21.20 | 21.09 | 21.34 | | |
| 3 | 64QAM | 1 | 14 | 21.19 | 21.16 | 21.25 | | |
| 3 | 64QAM | 8 | 0 | 20.68 | 20.73 | 20.65 | 21 | 1 |
| 3 | 64QAM | 8 | 4 | 20.70 | 20.70 | 20.63 | | |
| 3 | 64QAM | 8 | 7 | 20.64 | 20.68 | 20.59 | | |
| 3 | 64QAM | 15 | 0 | 20.75 | 20.73 | 20.66 | | |
| Channel | | | | 19957 | 20175 | 20393 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1710.7 | 1732.5 | 1754.3 | | |
| 1.4 | QPSK | 1 | 0 | 21.45 | 21.64 | 21.51 | 22 | 0 |
| 1.4 | QPSK | 1 | 3 | 20.97 | 20.97 | 20.84 | | |
| 1.4 | QPSK | 1 | 5 | 21.02 | 20.95 | 20.94 | | |
| 1.4 | QPSK | 3 | 0 | 21.49 | 21.47 | 21.48 | | |
| 1.4 | QPSK | 3 | 1 | 21.13 | 21.13 | 21.13 | | |
| 1.4 | QPSK | 3 | 3 | 21.20 | 21.19 | 21.07 | | |
| 1.4 | QPSK | 6 | 0 | 21.21 | 21.13 | 21.11 | | |
| 1.4 | 16QAM | 1 | 0 | 21.44 | 21.45 | 21.50 | 22 | 0 |
| 1.4 | 16QAM | 1 | 3 | 21.36 | 21.32 | 21.32 | | |
| 1.4 | 16QAM | 1 | 5 | 21.32 | 21.32 | 21.27 | | |
| 1.4 | 16QAM | 3 | 0 | 21.18 | 21.16 | 21.13 | | |
| 1.4 | 16QAM | 3 | 1 | 21.12 | 21.14 | 21.09 | | |
| 1.4 | 16QAM | 3 | 3 | 21.02 | 21.10 | 20.96 | | |
| 1.4 | 16QAM | 6 | 0 | 21.13 | 21.06 | 21.07 | | |
| 1.4 | 64QAM | 1 | 0 | 21.25 | 21.11 | 21.15 | 22 | 0 |
| 1.4 | 64QAM | 1 | 3 | 21.18 | 21.18 | 21.32 | | |
| 1.4 | 64QAM | 1 | 5 | 21.19 | 21.17 | 21.19 | | |
| 1.4 | 64QAM | 3 | 0 | 21.13 | 21.09 | 21.05 | | |
| 1.4 | 64QAM | 3 | 1 | 21.19 | 21.20 | 21.17 | | |
| 1.4 | 64QAM | 3 | 3 | 21.19 | 21.10 | 21.34 | | |
| 1.4 | 64QAM | 6 | 0 | 20.71 | 20.71 | 20.68 | | |
| | | | | | | | 21 | 1 |



<LTE Band 25>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 26140 | 26340 | 26590 | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1905 | | |
| 20 | QPSK | 1 | 0 | 21.69 | 21.54 | 21.76 | 22.5 | 0 |
| 20 | QPSK | 1 | 49 | 21.42 | 21.37 | 21.54 | | |
| 20 | QPSK | 1 | 99 | 21.38 | 21.50 | 21.61 | | |
| 20 | QPSK | 50 | 0 | 21.53 | 21.54 | 21.74 | 22.5 | 0 |
| 20 | QPSK | 50 | 24 | 21.59 | 21.56 | 21.66 | | |
| 20 | QPSK | 50 | 50 | 21.53 | 21.54 | 21.52 | | |
| 20 | QPSK | 100 | 0 | 21.58 | 21.55 | 21.68 | 22.5 | 0 |
| 20 | 16QAM | 1 | 0 | 21.70 | 21.67 | 21.61 | | |
| 20 | 16QAM | 1 | 49 | 21.69 | 21.73 | 21.52 | | |
| 20 | 16QAM | 1 | 99 | 21.67 | 21.66 | 21.73 | 22 | 0.5 |
| 20 | 16QAM | 50 | 0 | 20.85 | 21.01 | 21.06 | | |
| 20 | 16QAM | 50 | 24 | 20.96 | 20.99 | 21.02 | | |
| 20 | 16QAM | 50 | 50 | 20.95 | 21.03 | 21.04 | 21 | 1.5 |
| 20 | 16QAM | 100 | 0 | 21.03 | 21.02 | 21.02 | | |
| 20 | 64QAM | 1 | 0 | 21.13 | 21.03 | 21.19 | | |
| 20 | 64QAM | 1 | 49 | 21.21 | 21.27 | 21.17 | 22 | 0.5 |
| 20 | 64QAM | 1 | 99 | 21.21 | 21.15 | 21.19 | | |
| 20 | 64QAM | 50 | 0 | 19.92 | 20.01 | 20.09 | | |
| 20 | 64QAM | 50 | 24 | 20.06 | 20.12 | 20.10 | 21 | 1.5 |
| 20 | 64QAM | 50 | 50 | 20.01 | 20.08 | 20.09 | | |
| 20 | 64QAM | 100 | 0 | 20.02 | 20.01 | 20.06 | | |
| Channel | | | | 26115 | 26340 | 26615 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1907.5 | | |
| 15 | QPSK | 1 | 0 | 21.47 | 21.54 | 21.74 | 22.5 | 0 |
| 15 | QPSK | 1 | 37 | 21.33 | 21.34 | 21.46 | | |
| 15 | QPSK | 1 | 74 | 21.31 | 21.41 | 21.52 | | |
| 15 | QPSK | 36 | 0 | 21.45 | 21.54 | 21.68 | 22.5 | 0 |
| 15 | QPSK | 36 | 20 | 21.56 | 21.56 | 21.62 | | |
| 15 | QPSK | 36 | 39 | 21.51 | 21.48 | 21.48 | | |
| 15 | QPSK | 75 | 0 | 21.50 | 21.51 | 21.63 | 22.5 | 0 |
| 15 | 16QAM | 1 | 0 | 21.62 | 21.63 | 21.51 | | |
| 15 | 16QAM | 1 | 37 | 21.60 | 21.68 | 21.51 | | |
| 15 | 16QAM | 1 | 74 | 21.62 | 21.56 | 21.72 | 22 | 0.5 |
| 15 | 16QAM | 36 | 0 | 20.93 | 21.06 | 21.00 | | |
| 15 | 16QAM | 36 | 20 | 21.06 | 21.08 | 21.09 | | |
| 15 | 16QAM | 36 | 39 | 20.95 | 21.03 | 21.11 | 22 | 0.5 |
| 15 | 16QAM | 75 | 0 | 20.96 | 21.07 | 20.96 | | |
| 15 | 64QAM | 1 | 0 | 21.06 | 21.02 | 21.20 | | |
| 15 | 64QAM | 1 | 37 | 21.21 | 21.26 | 21.22 | 22 | 0.5 |
| 15 | 64QAM | 1 | 74 | 21.20 | 21.13 | 21.12 | | |
| 15 | 64QAM | 36 | 0 | 19.88 | 20.06 | 20.06 | | |
| 15 | 64QAM | 36 | 20 | 20.06 | 20.08 | 20.10 | 21 | 1.5 |
| 15 | 64QAM | 36 | 39 | 20.02 | 20.04 | 20.10 | | |
| 15 | 64QAM | 75 | 0 | 20.04 | 20.00 | 20.09 | | |
| Channel | | | | 26090 | 26340 | 26640 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1855 | 1880 | 1910 | | |
| 10 | QPSK | 1 | 0 | 21.52 | 21.46 | 21.71 | 22.5 | 0 |
| 10 | QPSK | 1 | 25 | 21.35 | 21.31 | 21.51 | | |
| 10 | QPSK | 1 | 49 | 21.29 | 21.48 | 21.53 | | |
| 10 | QPSK | 25 | 0 | 21.53 | 21.54 | 21.71 | 22.5 | 0 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 21.50 | 21.49 | 21.57 | | |
| 10 | QPSK | 25 | 25 | 21.53 | 21.45 | 21.42 | | |
| 10 | QPSK | 50 | 0 | 21.52 | 21.55 | 21.62 | | |
| 10 | 16QAM | 1 | 0 | 21.61 | 21.63 | 21.59 | 22.5 | 0 |
| 10 | 16QAM | 1 | 25 | 21.66 | 21.68 | 21.51 | | |
| 10 | 16QAM | 1 | 49 | 21.63 | 21.63 | 21.70 | | |
| 10 | 16QAM | 25 | 0 | 20.90 | 21.04 | 21.04 | 22 | 0.5 |
| 10 | 16QAM | 25 | 12 | 20.98 | 21.03 | 20.99 | | |
| 10 | 16QAM | 25 | 25 | 21.02 | 21.06 | 21.10 | | |
| 10 | 16QAM | 50 | 0 | 20.97 | 21.08 | 20.96 | | |
| 10 | 64QAM | 1 | 0 | 21.11 | 21.06 | 21.21 | 22 | 0.5 |
| 10 | 64QAM | 1 | 25 | 21.18 | 21.25 | 21.23 | | |
| 10 | 64QAM | 1 | 49 | 21.13 | 21.17 | 21.11 | | |
| 10 | 64QAM | 25 | 0 | 19.85 | 20.00 | 20.00 | 21 | 1.5 |
| 10 | 64QAM | 25 | 12 | 19.99 | 20.03 | 20.10 | | |
| 10 | 64QAM | 25 | 25 | 20.00 | 20.05 | 20.13 | | |
| 10 | 64QAM | 50 | 0 | 19.97 | 20.04 | 20.01 | | |
| Channel | | | | 26065 | 26340 | 26665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1912.5 | | |
| 5 | QPSK | 1 | 0 | 21.43 | 21.46 | 21.70 | 22.5 | 0 |
| 5 | QPSK | 1 | 12 | 21.40 | 21.32 | 21.45 | | |
| 5 | QPSK | 1 | 24 | 21.36 | 21.50 | 21.54 | | |
| 5 | QPSK | 12 | 0 | 21.45 | 21.51 | 21.72 | 22.5 | 0 |
| 5 | QPSK | 12 | 7 | 21.54 | 21.50 | 21.58 | | |
| 5 | QPSK | 12 | 13 | 21.43 | 21.50 | 21.42 | | |
| 5 | QPSK | 25 | 0 | 21.52 | 21.49 | 21.62 | | |
| 5 | 16QAM | 1 | 0 | 21.70 | 21.58 | 21.56 | 22.5 | 0 |
| 5 | 16QAM | 1 | 12 | 21.61 | 21.71 | 21.48 | | |
| 5 | 16QAM | 1 | 24 | 21.61 | 21.61 | 21.63 | | |
| 5 | 16QAM | 12 | 0 | 20.90 | 21.01 | 21.03 | 22 | 0.5 |
| 5 | 16QAM | 12 | 7 | 21.04 | 20.98 | 21.03 | | |
| 5 | 16QAM | 12 | 13 | 20.95 | 21.06 | 21.09 | | |
| 5 | 16QAM | 25 | 0 | 21.01 | 21.05 | 21.03 | | |
| 5 | 64QAM | 1 | 0 | 21.14 | 21.11 | 21.23 | 22 | 0.5 |
| 5 | 64QAM | 1 | 12 | 21.18 | 21.26 | 21.20 | | |
| 5 | 64QAM | 1 | 24 | 21.16 | 21.16 | 21.11 | | |
| 5 | 64QAM | 12 | 0 | 19.88 | 19.99 | 20.06 | 21 | 1.5 |
| 5 | 64QAM | 12 | 7 | 19.99 | 20.08 | 20.05 | | |
| 5 | 64QAM | 12 | 13 | 20.03 | 20.11 | 20.11 | | |
| 5 | 64QAM | 25 | 0 | 20.01 | 19.99 | 20.01 | | |
| Channel | | | | 26055 | 26340 | 26675 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1851.5 | 1880 | 1913.5 | | |
| 3 | QPSK | 1 | 0 | 21.53 | 21.48 | 21.69 | 22.5 | 0 |
| 3 | QPSK | 1 | 8 | 21.38 | 21.28 | 21.48 | | |
| 3 | QPSK | 1 | 14 | 21.35 | 21.41 | 21.57 | | |
| 3 | QPSK | 8 | 0 | 21.43 | 21.44 | 21.68 | 22.5 | 0 |
| 3 | QPSK | 8 | 4 | 21.53 | 21.47 | 21.61 | | |
| 3 | QPSK | 8 | 7 | 21.51 | 21.51 | 21.51 | | |
| 3 | QPSK | 15 | 0 | 21.58 | 21.53 | 21.59 | | |
| 3 | 16QAM | 1 | 0 | 21.69 | 21.59 | 21.51 | 22.5 | 0 |
| 3 | 16QAM | 1 | 8 | 21.61 | 21.71 | 21.48 | | |
| 3 | 16QAM | 1 | 14 | 21.59 | 21.57 | 21.64 | | |
| 3 | 16QAM | 8 | 0 | 20.93 | 21.06 | 21.04 | 22 | 0.5 |
| 3 | 16QAM | 8 | 4 | 21.03 | 21.01 | 21.01 | | |
| 3 | 16QAM | 8 | 7 | 21.01 | 21.12 | 21.03 | | |
| 3 | 16QAM | 15 | 0 | 21.04 | 21.08 | 20.99 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 21.14 | 21.10 | 21.16 | 22 | 0.5 |
| 3 | 64QAM | 1 | 8 | 21.13 | 21.19 | 21.19 | | |
| 3 | 64QAM | 1 | 14 | 21.12 | 21.20 | 21.16 | | |
| 3 | 64QAM | 8 | 0 | 19.92 | 20.03 | 20.00 | 21 | 1.5 |
| 3 | 64QAM | 8 | 4 | 20.02 | 20.07 | 20.07 | | |
| 3 | 64QAM | 8 | 7 | 20.01 | 20.03 | 20.04 | | |
| 3 | 64QAM | 15 | 0 | 20.02 | 20.08 | 20.09 | | |
| Channel | | | | 26047 | 26340 | 26683 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1850.7 | 1880 | 1914.3 | | |
| 1.4 | QPSK | 1 | 0 | 21.46 | 21.54 | 21.71 | 22.5 | 0 |
| 1.4 | QPSK | 1 | 3 | 21.41 | 21.34 | 21.53 | | |
| 1.4 | QPSK | 1 | 5 | 21.37 | 21.48 | 21.55 | | |
| 1.4 | QPSK | 3 | 0 | 21.51 | 21.48 | 21.71 | | |
| 1.4 | QPSK | 3 | 1 | 21.50 | 21.48 | 21.61 | | |
| 1.4 | QPSK | 3 | 3 | 21.49 | 21.48 | 21.47 | | |
| 1.4 | QPSK | 6 | 0 | 21.48 | 21.48 | 21.68 | 22.5 | 0 |
| 1.4 | 16QAM | 1 | 0 | 21.65 | 21.61 | 21.52 | 22.5 | 0 |
| 1.4 | 16QAM | 1 | 3 | 21.66 | 21.69 | 21.45 | | |
| 1.4 | 16QAM | 1 | 5 | 21.59 | 21.60 | 21.73 | | |
| 1.4 | 16QAM | 3 | 0 | 21.43 | 21.44 | 21.68 | | |
| 1.4 | 16QAM | 3 | 1 | 21.53 | 21.47 | 21.61 | | |
| 1.4 | 16QAM | 3 | 3 | 21.51 | 21.51 | 21.51 | | |
| 1.4 | 16QAM | 6 | 0 | 21.01 | 21.02 | 21.05 | 22 | 0.5 |
| 1.4 | 64QAM | 1 | 0 | 21.06 | 21.07 | 21.25 | 22 | 0.5 |
| 1.4 | 64QAM | 1 | 3 | 21.14 | 21.21 | 21.23 | | |
| 1.4 | 64QAM | 1 | 5 | 21.14 | 21.11 | 21.18 | | |
| 1.4 | 64QAM | 3 | 0 | 21.02 | 21.01 | 20.99 | | |
| 1.4 | 64QAM | 3 | 1 | 21.05 | 21.09 | 21.15 | | |
| 1.4 | 64QAM | 3 | 3 | 21.16 | 21.20 | 21.23 | | |
| 1.4 | 64QAM | 6 | 0 | 20.02 | 20.08 | 20.07 | 21.5 | 1 |



<LTE Band 66>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 132072 | 132322 | 132572 | | |
| Frequency (MHz) | | | | 1720 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 21.55 | 21.49 | 21.37 | | |
| 20 | QPSK | 1 | 49 | 21.06 | 21.07 | 20.84 | 22 | 0 |
| 20 | QPSK | 1 | 99 | 21.06 | 21.03 | 20.76 | | |
| 20 | QPSK | 50 | 0 | 21.52 | 21.49 | 21.37 | | |
| 20 | QPSK | 50 | 24 | 21.24 | 21.15 | 21.04 | 22 | 0 |
| 20 | QPSK | 50 | 50 | 21.20 | 21.19 | 20.95 | | |
| 20 | QPSK | 100 | 0 | 21.20 | 21.14 | 21.03 | | |
| 20 | 16QAM | 1 | 0 | 21.35 | 21.39 | 21.30 | 22 | 0 |
| 20 | 16QAM | 1 | 49 | 21.44 | 21.40 | 21.20 | | |
| 20 | 16QAM | 1 | 99 | 21.38 | 21.38 | 21.13 | | |
| 20 | 16QAM | 50 | 0 | 21.11 | 21.09 | 20.99 | 22 | 0 |
| 20 | 16QAM | 50 | 24 | 21.13 | 21.05 | 21.00 | | |
| 20 | 16QAM | 50 | 50 | 21.08 | 21.10 | 20.95 | | |
| 20 | 16QAM | 100 | 0 | 21.15 | 21.01 | 21.03 | 22 | 0 |
| 20 | 64QAM | 1 | 0 | 21.33 | 21.37 | 21.22 | | |
| 20 | 64QAM | 1 | 49 | 21.41 | 21.35 | 21.10 | | |
| 20 | 64QAM | 1 | 99 | 21.33 | 21.31 | 21.10 | 22 | 0 |
| 20 | 64QAM | 50 | 0 | 20.64 | 20.67 | 20.60 | | |
| 20 | 64QAM | 50 | 24 | 20.74 | 20.67 | 20.59 | | |
| 20 | 64QAM | 50 | 50 | 20.64 | 20.67 | 20.54 | 21 | 1 |
| 20 | 64QAM | 100 | 0 | 20.69 | 20.66 | 20.54 | | |
| Channel | | | | 132047 | 132322 | 132597 | | |
| Frequency (MHz) | | | | 1717.5 | 1745 | 1772.5 | 22 | 0 |
| 15 | QPSK | 1 | 0 | 21.51 | 21.41 | 21.33 | | |
| 15 | QPSK | 1 | 37 | 21.04 | 21.06 | 20.82 | | |
| 15 | QPSK | 1 | 74 | 20.99 | 20.94 | 20.70 | 22 | 0 |
| 15 | QPSK | 36 | 0 | 21.49 | 21.40 | 21.36 | | |
| 15 | QPSK | 36 | 20 | 21.22 | 21.09 | 20.94 | | |
| 15 | QPSK | 36 | 39 | 21.11 | 21.09 | 20.95 | 22 | 0 |
| 15 | QPSK | 75 | 0 | 21.14 | 21.11 | 21.00 | | |
| 15 | 16QAM | 1 | 0 | 21.33 | 21.30 | 21.22 | | |
| 15 | 16QAM | 1 | 37 | 21.42 | 21.30 | 21.15 | 22 | 0 |
| 15 | 16QAM | 1 | 74 | 21.31 | 21.35 | 21.09 | | |
| 15 | 16QAM | 36 | 0 | 21.10 | 21.07 | 20.96 | | |
| 15 | 16QAM | 36 | 20 | 21.18 | 21.08 | 21.02 | 22 | 0 |
| 15 | 16QAM | 36 | 39 | 21.16 | 21.07 | 20.95 | | |
| 15 | 16QAM | 75 | 0 | 21.15 | 21.08 | 20.94 | | |
| 15 | 64QAM | 1 | 0 | 21.35 | 21.32 | 21.25 | 22 | 0 |
| 15 | 64QAM | 1 | 37 | 21.43 | 21.36 | 21.10 | | |
| 15 | 64QAM | 1 | 74 | 21.29 | 21.36 | 21.08 | | |
| 15 | 64QAM | 36 | 0 | 20.67 | 20.67 | 20.62 | 21 | 1 |
| 15 | 64QAM | 36 | 20 | 20.70 | 20.69 | 20.62 | | |
| 15 | 64QAM | 36 | 39 | 20.73 | 20.68 | 20.49 | | |
| 15 | 64QAM | 75 | 0 | 20.77 | 20.65 | 20.55 | 22 | 0 |
| Channel | | | | 132022 | 132322 | 132622 | | |
| Frequency (MHz) | | | | 1715 | 1745 | 1775 | | |
| 10 | QPSK | 1 | 0 | 21.49 | 21.41 | 21.34 | 22 | 0 |
| 10 | QPSK | 1 | 25 | 21.06 | 21.00 | 20.79 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|----|---|
| 10 | QPSK | 1 | 49 | 21.03 | 20.97 | 20.76 | | |
| 10 | QPSK | 25 | 0 | 21.48 | 21.41 | 21.35 | 22 | 0 |
| 10 | QPSK | 25 | 12 | 21.24 | 21.06 | 21.01 | | |
| 10 | QPSK | 25 | 25 | 21.17 | 21.19 | 20.90 | | |
| 10 | QPSK | 50 | 0 | 21.15 | 21.13 | 20.94 | | |
| 10 | 16QAM | 1 | 0 | 21.32 | 21.29 | 21.28 | 22 | 0 |
| 10 | 16QAM | 1 | 25 | 21.39 | 21.37 | 21.20 | | |
| 10 | 16QAM | 1 | 49 | 21.38 | 21.35 | 21.10 | | |
| 10 | 16QAM | 25 | 0 | 21.11 | 21.14 | 20.93 | 22 | 0 |
| 10 | 16QAM | 25 | 12 | 21.12 | 21.06 | 20.97 | | |
| 10 | 16QAM | 25 | 25 | 21.10 | 21.04 | 20.91 | | |
| 10 | 16QAM | 50 | 0 | 21.11 | 20.99 | 20.96 | | |
| 10 | 64QAM | 1 | 0 | 21.26 | 21.32 | 21.29 | 22 | 0 |
| 10 | 64QAM | 1 | 25 | 21.38 | 21.33 | 21.11 | | |
| 10 | 64QAM | 1 | 49 | 21.36 | 21.33 | 21.05 | | |
| 10 | 64QAM | 25 | 0 | 20.64 | 20.66 | 20.63 | 21 | 1 |
| 10 | 64QAM | 25 | 12 | 20.74 | 20.68 | 20.57 | | |
| 10 | 64QAM | 25 | 25 | 20.64 | 20.72 | 20.48 | | |
| 10 | 64QAM | 50 | 0 | 20.68 | 20.59 | 20.62 | | |
| Channel | | | | 131997 | 132322 | 132647 | | |
| Frequency (MHz) | | | | 1712.5 | 1745 | 1777.5 | | |
| 5 | QPSK | 1 | 0 | 21.45 | 21.44 | 21.27 | 22 | 0 |
| 5 | QPSK | 1 | 12 | 20.97 | 21.02 | 20.79 | | |
| 5 | QPSK | 1 | 24 | 21.06 | 21.02 | 20.69 | | |
| 5 | QPSK | 12 | 0 | 21.44 | 21.46 | 21.34 | 22 | 0 |
| 5 | QPSK | 12 | 7 | 21.19 | 21.12 | 21.04 | | |
| 5 | QPSK | 12 | 13 | 21.12 | 21.19 | 20.93 | | |
| 5 | QPSK | 25 | 0 | 21.13 | 21.11 | 20.96 | | |
| 5 | 16QAM | 1 | 0 | 21.33 | 21.37 | 21.28 | 22 | 0 |
| 5 | 16QAM | 1 | 12 | 21.43 | 21.38 | 21.10 | | |
| 5 | 16QAM | 1 | 24 | 21.30 | 21.28 | 21.03 | | |
| 5 | 16QAM | 12 | 0 | 21.14 | 21.07 | 21.03 | 22 | 0 |
| 5 | 16QAM | 12 | 7 | 21.12 | 21.09 | 21.04 | | |
| 5 | 16QAM | 12 | 13 | 21.13 | 21.09 | 20.96 | | |
| 5 | 16QAM | 25 | 0 | 21.14 | 21.07 | 20.98 | | |
| 5 | 64QAM | 1 | 0 | 21.25 | 21.38 | 21.22 | | |
| 5 | 64QAM | 1 | 12 | 21.42 | 21.33 | 21.18 | 22 | 0 |
| 5 | 64QAM | 1 | 24 | 21.33 | 21.34 | 21.09 | | |
| 5 | 64QAM | 12 | 0 | 20.67 | 20.73 | 20.60 | | |
| 5 | 64QAM | 12 | 7 | 20.78 | 20.73 | 20.65 | 21 | 1 |
| 5 | 64QAM | 12 | 13 | 20.63 | 20.70 | 20.53 | | |
| 5 | 64QAM | 25 | 0 | 20.68 | 20.63 | 20.57 | | |
| Channel | | | | 131987 | 132322 | 132657 | | |
| Frequency (MHz) | | | | 1711.5 | 1745 | 1778.5 | | |
| 3 | QPSK | 1 | 0 | 21.46 | 21.45 | 21.28 | 22 | 0 |
| 3 | QPSK | 1 | 8 | 21.03 | 21.00 | 20.83 | | |
| 3 | QPSK | 1 | 14 | 20.99 | 20.94 | 20.70 | | |
| 3 | QPSK | 8 | 0 | 21.43 | 21.48 | 21.31 | 22 | 0 |
| 3 | QPSK | 8 | 4 | 21.22 | 21.11 | 21.04 | | |
| 3 | QPSK | 8 | 7 | 21.11 | 21.16 | 20.87 | | |
| 3 | QPSK | 15 | 0 | 21.14 | 21.06 | 20.93 | | |
| 3 | 16QAM | 1 | 0 | 21.26 | 21.32 | 21.23 | 22 | 0 |
| 3 | 16QAM | 1 | 8 | 21.36 | 21.31 | 21.10 | | |
| 3 | 16QAM | 1 | 14 | 21.38 | 21.38 | 21.04 | | |
| 3 | 16QAM | 8 | 0 | 21.08 | 21.10 | 20.97 | 22 | 0 |
| 3 | 16QAM | 8 | 4 | 21.18 | 21.14 | 20.97 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|------------------------|-------------|
| 3 | 16QAM | 8 | 7 | 21.15 | 21.04 | 20.91 | | |
| 3 | 16QAM | 15 | 0 | 21.15 | 20.99 | 21.02 | | |
| 3 | 64QAM | 1 | 0 | 21.29 | 21.35 | 21.28 | 22 | 0 |
| 3 | 64QAM | 1 | 8 | 21.42 | 21.40 | 21.16 | | |
| 3 | 64QAM | 1 | 14 | 21.35 | 21.29 | 21.12 | | |
| 3 | 64QAM | 8 | 0 | 20.64 | 20.71 | 20.59 | 21 | 1 |
| 3 | 64QAM | 8 | 4 | 20.78 | 20.73 | 20.64 | | |
| 3 | 64QAM | 8 | 7 | 20.63 | 20.70 | 20.49 | | |
| 3 | 64QAM | 15 | 0 | 20.72 | 20.66 | 20.61 | | |
| Channel | | | | 131979 | 132322 | 132665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1710.7 | 1745 | 1779.3 | | |
| 1.4 | QPSK | 1 | 0 | 21.50 | 21.39 | 21.29 | 22 | 0 |
| 1.4 | QPSK | 1 | 3 | 21.00 | 21.06 | 20.82 | | |
| 1.4 | QPSK | 1 | 5 | 20.96 | 21.02 | 20.68 | | |
| 1.4 | QPSK | 3 | 0 | 21.51 | 21.46 | 21.31 | | |
| 1.4 | QPSK | 3 | 1 | 21.23 | 21.10 | 21.02 | | |
| 1.4 | QPSK | 3 | 3 | 21.17 | 21.18 | 20.85 | | |
| 1.4 | QPSK | 6 | 0 | 21.20 | 21.08 | 21.03 | 22 | 0 |
| 1.4 | 16QAM | 1 | 0 | 21.25 | 21.30 | 21.28 | 22 | 0 |
| 1.4 | 16QAM | 1 | 3 | 21.35 | 21.30 | 21.13 | | |
| 1.4 | 16QAM | 1 | 5 | 21.38 | 21.29 | 21.03 | | |
| 1.4 | 16QAM | 3 | 0 | 21.13 | 21.12 | 21.00 | | |
| 1.4 | 16QAM | 3 | 1 | 21.18 | 21.14 | 20.96 | | |
| 1.4 | 16QAM | 3 | 3 | 21.12 | 21.05 | 20.88 | | |
| 1.4 | 16QAM | 6 | 0 | 21.10 | 21.02 | 20.97 | 22 | 0 |
| 1.4 | 64QAM | 1 | 0 | 21.31 | 21.37 | 21.28 | 22 | 0 |
| 1.4 | 64QAM | 1 | 3 | 21.37 | 21.36 | 21.12 | | |
| 1.4 | 64QAM | 1 | 5 | 21.29 | 21.29 | 21.03 | | |
| 1.4 | 64QAM | 3 | 0 | 21.14 | 21.05 | 20.98 | | |
| 1.4 | 64QAM | 3 | 1 | 21.31 | 21.32 | 21.22 | | |
| 1.4 | 64QAM | 3 | 3 | 21.34 | 21.33 | 21.18 | | |
| 1.4 | 64QAM | 6 | 0 | 20.71 | 20.63 | 20.60 | 21 | 1 |



<When EN-DC is active>

<LTE Band 7>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 20850 | 21100 | 21350 | | |
| Frequency (MHz) | | | | 2510 | 2535 | 2560 | | |
| 20 | QPSK | 1 | 0 | 18.86 | 18.91 | 18.90 | 19 | 0 |
| 20 | QPSK | 1 | 49 | 18.85 | 18.86 | 18.79 | | |
| 20 | QPSK | 1 | 99 | 18.84 | 18.82 | 18.78 | | |
| 20 | QPSK | 50 | 0 | 18.76 | 18.83 | 18.72 | 19 | 0 |
| 20 | QPSK | 50 | 24 | 18.74 | 18.78 | 18.80 | | |
| 20 | QPSK | 50 | 50 | 18.71 | 18.82 | 18.73 | | |
| 20 | QPSK | 100 | 0 | 18.72 | 18.87 | 18.75 | 19 | 0 |
| 20 | 16QAM | 1 | 0 | 18.85 | 18.90 | 18.83 | | |
| 20 | 16QAM | 1 | 49 | 18.77 | 18.85 | 18.74 | | |
| 20 | 16QAM | 1 | 99 | 18.82 | 18.74 | 18.68 | 19 | 0 |
| 20 | 16QAM | 50 | 0 | 18.75 | 18.78 | 18.68 | | |
| 20 | 16QAM | 50 | 24 | 18.65 | 18.73 | 18.71 | | |
| 20 | 16QAM | 50 | 50 | 18.70 | 18.77 | 18.69 | 19 | 0 |
| 20 | 16QAM | 100 | 0 | 18.71 | 18.80 | 18.70 | | |
| 20 | 64QAM | 1 | 0 | 18.78 | 18.82 | 18.89 | | |
| 20 | 64QAM | 1 | 49 | 18.76 | 18.79 | 18.75 | 19 | 0 |
| 20 | 64QAM | 1 | 99 | 18.84 | 18.72 | 18.76 | | |
| 20 | 64QAM | 50 | 0 | 18.74 | 18.79 | 18.63 | | |
| 20 | 64QAM | 50 | 24 | 18.73 | 18.70 | 18.80 | 19 | 0 |
| 20 | 64QAM | 50 | 50 | 18.69 | 18.75 | 18.69 | | |
| 20 | 64QAM | 100 | 0 | 18.69 | 18.84 | 18.71 | | |
| Channel | | | | 20825 | 21100 | 21375 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2507.5 | 2535 | 2562.5 | | |
| 15 | QPSK | 1 | 0 | 18.80 | 18.87 | 18.81 | 19 | 0 |
| 15 | QPSK | 1 | 37 | 18.83 | 18.76 | 18.79 | | |
| 15 | QPSK | 1 | 74 | 18.79 | 18.75 | 18.75 | | |
| 15 | QPSK | 36 | 0 | 18.66 | 18.81 | 18.64 | 19 | 0 |
| 15 | QPSK | 36 | 20 | 18.64 | 18.74 | 18.72 | | |
| 15 | QPSK | 36 | 39 | 18.66 | 18.78 | 18.73 | | |
| 15 | QPSK | 75 | 0 | 18.66 | 18.82 | 18.74 | 19 | 0 |
| 15 | 16QAM | 1 | 0 | 18.75 | 18.84 | 18.82 | | |
| 15 | 16QAM | 1 | 37 | 18.70 | 18.81 | 18.74 | | |
| 15 | 16QAM | 1 | 74 | 18.81 | 18.66 | 18.60 | 19 | 0 |
| 15 | 16QAM | 36 | 0 | 18.75 | 18.78 | 18.67 | | |
| 15 | 16QAM | 36 | 20 | 18.56 | 18.71 | 18.66 | | |
| 15 | 16QAM | 36 | 39 | 18.64 | 18.74 | 18.68 | 19 | 0 |
| 15 | 16QAM | 75 | 0 | 18.66 | 18.72 | 18.66 | | |
| 15 | 64QAM | 1 | 0 | 18.73 | 18.82 | 18.86 | | |
| 15 | 64QAM | 1 | 37 | 18.75 | 18.77 | 18.67 | 19 | 0 |
| 15 | 64QAM | 1 | 74 | 18.76 | 18.65 | 18.73 | | |
| 15 | 64QAM | 36 | 0 | 18.68 | 18.74 | 18.53 | | |
| 15 | 64QAM | 36 | 20 | 18.67 | 18.61 | 18.77 | 19 | 0 |
| 15 | 64QAM | 36 | 39 | 18.68 | 18.65 | 18.65 | | |
| 15 | 64QAM | 75 | 0 | 18.60 | 18.82 | 18.68 | | |
| Channel | | | | 20800 | 21100 | 21400 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2505 | 2535 | 2565 | | |
| 10 | QPSK | 1 | 0 | 18.79 | 18.86 | 18.81 | 19 | 0 |
| 10 | QPSK | 1 | 25 | 18.81 | 18.79 | 18.72 | | |
| 10 | QPSK | 1 | 49 | 18.77 | 18.78 | 18.74 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 0 | 18.72 | 18.83 | 18.65 | 19 | 0 |
| 10 | QPSK | 25 | 12 | 18.74 | 18.75 | 18.79 | | |
| 10 | QPSK | 25 | 25 | 18.64 | 18.76 | 18.68 | | |
| 10 | QPSK | 50 | 0 | 18.70 | 18.87 | 18.69 | | |
| 10 | 16QAM | 1 | 0 | 18.75 | 18.85 | 18.79 | 19 | 0 |
| 10 | 16QAM | 1 | 25 | 18.77 | 18.79 | 18.70 | | |
| 10 | 16QAM | 1 | 49 | 18.72 | 18.67 | 18.64 | | |
| 10 | 16QAM | 25 | 0 | 18.72 | 18.69 | 18.68 | 19 | 0 |
| 10 | 16QAM | 25 | 12 | 18.55 | 18.71 | 18.64 | | |
| 10 | 16QAM | 25 | 25 | 18.65 | 18.72 | 18.64 | | |
| 10 | 16QAM | 50 | 0 | 18.67 | 18.77 | 18.68 | | |
| 10 | 64QAM | 1 | 0 | 18.76 | 18.77 | 18.88 | 19 | 0 |
| 10 | 64QAM | 1 | 25 | 18.70 | 18.77 | 18.69 | | |
| 10 | 64QAM | 1 | 49 | 18.76 | 18.63 | 18.70 | | |
| 10 | 64QAM | 25 | 0 | 18.66 | 18.76 | 18.63 | 19 | 0 |
| 10 | 64QAM | 25 | 12 | 18.67 | 18.63 | 18.79 | | |
| 10 | 64QAM | 25 | 25 | 18.69 | 18.67 | 18.64 | | |
| 10 | 64QAM | 50 | 0 | 18.66 | 18.77 | 18.63 | | |
| Channel | | | | 20775 | 21100 | 21425 | | |
| Frequency (MHz) | | | | 2502.5 | 2535 | 2567.5 | | |
| | | | | | | | Tune-up limit (dBm) | MPR (dB) |
| 5 | QPSK | 1 | 0 | 18.80 | 18.87 | 18.82 | 19 | 0 |
| 5 | QPSK | 1 | 12 | 18.84 | 18.81 | 18.69 | | |
| 5 | QPSK | 1 | 24 | 18.76 | 18.82 | 18.72 | | |
| 5 | QPSK | 12 | 0 | 18.74 | 18.83 | 18.65 | 19 | 0 |
| 5 | QPSK | 12 | 7 | 18.66 | 18.75 | 18.70 | | |
| 5 | QPSK | 12 | 13 | 18.70 | 18.74 | 18.70 | | |
| 5 | QPSK | 25 | 0 | 18.62 | 18.79 | 18.75 | | |
| 5 | 16QAM | 1 | 0 | 18.83 | 18.81 | 18.80 | | |
| 5 | 16QAM | 1 | 12 | 18.75 | 18.83 | 18.72 | 19 | 0 |
| 5 | 16QAM | 1 | 24 | 18.75 | 18.64 | 18.67 | | |
| 5 | 16QAM | 12 | 0 | 18.71 | 18.77 | 18.62 | | |
| 5 | 16QAM | 12 | 7 | 18.59 | 18.72 | 18.61 | 19 | 0 |
| 5 | 16QAM | 12 | 13 | 18.70 | 18.68 | 18.59 | | |
| 5 | 16QAM | 25 | 0 | 18.65 | 18.75 | 18.60 | | |
| 5 | 64QAM | 1 | 0 | 18.69 | 18.77 | 18.86 | | |
| 5 | 64QAM | 1 | 12 | 18.76 | 18.73 | 18.65 | | |
| 5 | 64QAM | 1 | 24 | 18.74 | 18.63 | 18.67 | 19 | 0 |
| 5 | 64QAM | 12 | 0 | 18.74 | 18.75 | 18.56 | | |
| 5 | 64QAM | 12 | 7 | 18.67 | 18.69 | 18.78 | | |
| 5 | 64QAM | 12 | 13 | 18.63 | 18.71 | 18.63 | | |
| 5 | 64QAM | 25 | 0 | 18.69 | 18.76 | 18.63 | | |



<LTE Band 13>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 23230 | | | | |
| Frequency (MHz) | | | | 782 | | | | |
| 10 | QPSK | 1 | 0 | | 20.93 | | 21.5 | 0 |
| 10 | QPSK | 1 | 25 | | 20.85 | | | |
| 10 | QPSK | 1 | 49 | | 20.75 | | | |
| 10 | QPSK | 25 | 0 | | 20.67 | | 21.5 | 0 |
| 10 | QPSK | 25 | 12 | | 20.56 | | | |
| 10 | QPSK | 25 | 25 | | 20.61 | | | |
| 10 | QPSK | 50 | 0 | | 20.59 | | 21.5 | 0 |
| 10 | 16QAM | 1 | 0 | | 20.79 | | | |
| 10 | 16QAM | 1 | 25 | | 20.78 | | | |
| 10 | 16QAM | 1 | 49 | | 20.59 | | 21.5 | 0 |
| 10 | 16QAM | 25 | 0 | | 20.50 | | | |
| 10 | 16QAM | 25 | 12 | | 20.42 | | | |
| 10 | 16QAM | 25 | 25 | | 20.61 | | 21.5 | 0 |
| 10 | 16QAM | 50 | 0 | | 20.57 | | | |
| 10 | 64QAM | 1 | 0 | | 20.59 | | | |
| 10 | 64QAM | 1 | 25 | | 20.61 | | 21.5 | 0 |
| 10 | 64QAM | 1 | 49 | | 20.61 | | | |
| 10 | 64QAM | 25 | 0 | | 20.13 | | | |
| 10 | 64QAM | 25 | 12 | | 20.14 | | 21 | 0.5 |
| 10 | 64QAM | 25 | 25 | | 20.17 | | | |
| 10 | 64QAM | 50 | 0 | | 20.14 | | | |
| Channel | | | | 23205 | 23230 | 23255 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 779.5 | 782 | 784.5 | | |
| 5 | QPSK | 1 | 0 | 20.88 | 20.93 | 20.83 | 21.5 | 0 |
| 5 | QPSK | 1 | 12 | 20.80 | 20.79 | 20.77 | | |
| 5 | QPSK | 1 | 24 | 20.68 | 20.69 | 20.74 | | |
| 5 | QPSK | 12 | 0 | 20.62 | 20.67 | 20.60 | 21.5 | 0 |
| 5 | QPSK | 12 | 7 | 20.47 | 20.50 | 20.48 | | |
| 5 | QPSK | 12 | 13 | 20.51 | 20.59 | 20.56 | | |
| 5 | QPSK | 25 | 0 | 20.57 | 20.51 | 20.49 | 21.5 | 0 |
| 5 | 16QAM | 1 | 0 | 20.74 | 20.70 | 20.78 | | |
| 5 | 16QAM | 1 | 12 | 20.68 | 20.75 | 20.76 | | |
| 5 | 16QAM | 1 | 24 | 20.49 | 20.50 | 20.52 | 21.5 | 0 |
| 5 | 16QAM | 12 | 0 | 20.41 | 20.49 | 20.43 | | |
| 5 | 16QAM | 12 | 7 | 20.32 | 20.35 | 20.42 | | |
| 5 | 16QAM | 12 | 13 | 20.58 | 20.55 | 20.58 | 21.5 | 0 |
| 5 | 16QAM | 25 | 0 | 20.53 | 20.51 | 20.54 | | |
| 5 | 64QAM | 1 | 0 | 20.54 | 20.58 | 20.54 | | |
| 5 | 64QAM | 1 | 12 | 20.54 | 20.55 | 20.60 | 21.5 | 0 |
| 5 | 64QAM | 1 | 24 | 20.51 | 20.52 | 20.56 | | |
| 5 | 64QAM | 12 | 0 | 20.04 | 20.12 | 20.10 | | |
| 5 | 64QAM | 12 | 7 | 20.08 | 20.08 | 20.10 | 21 | 0.5 |
| 5 | 64QAM | 12 | 13 | 20.17 | 20.09 | 20.07 | | |
| 5 | 64QAM | 25 | 0 | 20.13 | 20.14 | 20.14 | | |



<LTE Band 25>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 26140 | 26340 | 26590 | | |
| Frequency (MHz) | | | | 1860 | 1880 | 1905 | | |
| 20 | QPSK | 1 | 0 | 14.88 | 14.77 | 14.96 | 15 | 0 |
| 20 | QPSK | 1 | 49 | 14.85 | 14.74 | 14.94 | | |
| 20 | QPSK | 1 | 99 | 14.85 | 14.85 | 14.87 | | |
| 20 | QPSK | 50 | 0 | 14.87 | 14.77 | 14.84 | 15 | 0 |
| 20 | QPSK | 50 | 24 | 14.85 | 14.76 | 14.90 | | |
| 20 | QPSK | 50 | 50 | 14.79 | 14.77 | 14.90 | | |
| 20 | QPSK | 100 | 0 | 14.81 | 14.73 | 14.84 | 15 | 0 |
| 20 | 16QAM | 1 | 0 | 14.87 | 14.89 | 14.85 | | |
| 20 | 16QAM | 1 | 49 | 14.72 | 14.68 | 14.78 | | |
| 20 | 16QAM | 1 | 99 | 14.67 | 14.61 | 14.86 | 15 | 0 |
| 20 | 16QAM | 50 | 0 | 14.69 | 14.73 | 14.96 | | |
| 20 | 16QAM | 50 | 24 | 14.66 | 14.69 | 14.89 | | |
| 20 | 16QAM | 50 | 50 | 14.61 | 14.55 | 14.67 | 15 | 0 |
| 20 | 16QAM | 100 | 0 | 14.52 | 14.50 | 14.64 | | |
| 20 | 64QAM | 1 | 0 | 14.54 | 14.59 | 14.73 | | |
| 20 | 64QAM | 1 | 49 | 14.73 | 14.63 | 14.75 | 15 | 0 |
| 20 | 64QAM | 1 | 99 | 14.66 | 14.62 | 14.88 | | |
| 20 | 64QAM | 50 | 0 | 14.60 | 14.65 | 14.88 | | |
| 20 | 64QAM | 50 | 24 | 14.63 | 14.63 | 14.86 | 15 | 0 |
| 20 | 64QAM | 50 | 50 | 14.67 | 14.61 | 14.86 | | |
| 20 | 64QAM | 100 | 0 | 14.69 | 14.73 | 14.96 | | |
| Channel | | | | 26115 | 26340 | 26615 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1857.5 | 1880 | 1907.5 | | |
| 15 | QPSK | 1 | 0 | 14.86 | 14.71 | 14.95 | 15 | 0 |
| 15 | QPSK | 1 | 37 | 14.81 | 14.74 | 14.93 | | |
| 15 | QPSK | 1 | 74 | 14.85 | 14.75 | 14.87 | | |
| 15 | QPSK | 36 | 0 | 14.81 | 14.67 | 14.74 | 15 | 0 |
| 15 | QPSK | 36 | 20 | 14.77 | 14.70 | 14.85 | | |
| 15 | QPSK | 36 | 39 | 14.74 | 14.74 | 14.89 | | |
| 15 | QPSK | 75 | 0 | 14.72 | 14.68 | 14.76 | 15 | 0 |
| 15 | 16QAM | 1 | 0 | 14.84 | 14.87 | 14.85 | | |
| 15 | 16QAM | 1 | 37 | 14.70 | 14.64 | 14.75 | | |
| 15 | 16QAM | 1 | 74 | 14.67 | 14.53 | 14.79 | 15 | 0 |
| 15 | 16QAM | 36 | 0 | 14.66 | 14.66 | 14.94 | | |
| 15 | 16QAM | 36 | 20 | 14.57 | 14.63 | 14.88 | | |
| 15 | 16QAM | 36 | 39 | 14.53 | 14.49 | 14.60 | 15 | 0 |
| 15 | 16QAM | 75 | 0 | 14.52 | 14.42 | 14.55 | | |
| 15 | 64QAM | 1 | 0 | 14.51 | 14.51 | 14.72 | | |
| 15 | 64QAM | 1 | 37 | 14.63 | 14.53 | 14.71 | 15 | 0 |
| 15 | 64QAM | 1 | 74 | 14.58 | 14.60 | 14.84 | | |
| 15 | 64QAM | 36 | 0 | 14.60 | 14.61 | 14.78 | | |
| 15 | 64QAM | 36 | 20 | 14.63 | 14.60 | 14.81 | 15 | 0 |
| 15 | 64QAM | 36 | 39 | 14.65 | 14.61 | 14.83 | | |
| 15 | 64QAM | 75 | 0 | 14.62 | 14.73 | 14.87 | | |
| Channel | | | | 26090 | 26340 | 26640 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1855 | 1880 | 1910 | | |
| 10 | QPSK | 1 | 0 | 14.79 | 14.76 | 14.94 | 15 | 0 |
| 10 | QPSK | 1 | 25 | 14.80 | 14.65 | 14.92 | | |
| 10 | QPSK | 1 | 49 | 14.79 | 14.76 | 14.89 | | |
| 10 | QPSK | 25 | 0 | 14.84 | 14.76 | 14.81 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 14.77 | 14.70 | 14.88 | | |
| 10 | QPSK | 25 | 25 | 14.75 | 14.75 | 14.84 | | |
| 10 | QPSK | 50 | 0 | 14.78 | 14.64 | 14.79 | | |
| 10 | 16QAM | 1 | 0 | 14.85 | 14.84 | 14.91 | 15 | 0 |
| 10 | 16QAM | 1 | 25 | 14.71 | 14.62 | 14.71 | | |
| 10 | 16QAM | 1 | 49 | 14.65 | 14.52 | 14.76 | | |
| 10 | 16QAM | 25 | 0 | 14.69 | 14.71 | 14.85 | 15 | 0 |
| 10 | 16QAM | 25 | 12 | 14.64 | 14.59 | 14.83 | | |
| 10 | 16QAM | 25 | 25 | 14.58 | 14.46 | 14.60 | | |
| 10 | 16QAM | 50 | 0 | 14.47 | 14.50 | 14.55 | | |
| 10 | 64QAM | 1 | 0 | 14.47 | 14.49 | 14.64 | 15 | 0 |
| 10 | 64QAM | 1 | 25 | 14.67 | 14.63 | 14.66 | | |
| 10 | 64QAM | 1 | 49 | 14.66 | 14.52 | 14.88 | | |
| 10 | 64QAM | 25 | 0 | 14.57 | 14.64 | 14.88 | 15 | 0 |
| 10 | 64QAM | 25 | 12 | 14.62 | 14.56 | 14.85 | | |
| 10 | 64QAM | 25 | 25 | 14.60 | 14.61 | 14.84 | | |
| 10 | 64QAM | 50 | 0 | 14.68 | 14.63 | 14.94 | | |
| Channel | | | | 26065 | 26340 | 26665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1852.5 | 1880 | 1912.5 | | |
| 5 | QPSK | 1 | 0 | 14.82 | 14.72 | 14.91 | 15 | 0 |
| 5 | QPSK | 1 | 12 | 14.79 | 14.71 | 14.84 | | |
| 5 | QPSK | 1 | 24 | 14.83 | 14.84 | 14.88 | | |
| 5 | QPSK | 12 | 0 | 14.81 | 14.67 | 14.76 | 15 | 0 |
| 5 | QPSK | 12 | 7 | 14.76 | 14.75 | 14.87 | | |
| 5 | QPSK | 12 | 13 | 14.70 | 14.69 | 14.82 | | |
| 5 | QPSK | 25 | 0 | 14.72 | 14.64 | 14.78 | | |
| 5 | 16QAM | 1 | 0 | 14.86 | 14.87 | 14.85 | 15 | 0 |
| 5 | 16QAM | 1 | 12 | 14.67 | 14.62 | 14.70 | | |
| 5 | 16QAM | 1 | 24 | 14.58 | 14.52 | 14.76 | | |
| 5 | 16QAM | 12 | 0 | 14.66 | 14.63 | 14.94 | 15 | 0 |
| 5 | 16QAM | 12 | 7 | 14.58 | 14.65 | 14.88 | | |
| 5 | 16QAM | 12 | 13 | 14.56 | 14.46 | 14.67 | | |
| 5 | 16QAM | 25 | 0 | 14.50 | 14.41 | 14.62 | | |
| 5 | 64QAM | 1 | 0 | 14.49 | 14.54 | 14.72 | 15 | 0 |
| 5 | 64QAM | 1 | 12 | 14.64 | 14.54 | 14.69 | | |
| 5 | 64QAM | 1 | 24 | 14.60 | 14.57 | 14.80 | | |
| 5 | 64QAM | 12 | 0 | 14.56 | 14.61 | 14.79 | 15 | 0 |
| 5 | 64QAM | 12 | 7 | 14.62 | 14.54 | 14.82 | | |
| 5 | 64QAM | 12 | 13 | 14.67 | 14.61 | 14.84 | | |
| 5 | 64QAM | 25 | 0 | 14.61 | 14.64 | 14.92 | | |
| Channel | | | | 26055 | 26340 | 26675 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1851.5 | 1880 | 1913.5 | | |
| 3 | QPSK | 1 | 0 | 14.78 | 14.73 | 14.96 | 15 | 0 |
| 3 | QPSK | 1 | 8 | 14.85 | 14.74 | 14.90 | | |
| 3 | QPSK | 1 | 14 | 14.77 | 14.77 | 14.89 | | |
| 3 | QPSK | 8 | 0 | 14.80 | 14.72 | 14.82 | 15 | 0 |
| 3 | QPSK | 8 | 4 | 14.80 | 14.67 | 14.86 | | |
| 3 | QPSK | 8 | 7 | 14.72 | 14.74 | 14.88 | | |
| 3 | QPSK | 15 | 0 | 14.71 | 14.71 | 14.78 | | |
| 3 | 16QAM | 1 | 0 | 14.79 | 14.81 | 14.82 | 15 | 0 |
| 3 | 16QAM | 1 | 8 | 14.71 | 14.68 | 14.72 | | |
| 3 | 16QAM | 1 | 14 | 14.57 | 14.61 | 14.79 | | |
| 3 | 16QAM | 8 | 0 | 14.66 | 14.69 | 14.95 | 15 | 0 |
| 3 | 16QAM | 8 | 4 | 14.64 | 14.64 | 14.86 | | |
| 3 | 16QAM | 8 | 7 | 14.53 | 14.53 | 14.60 | | |
| 3 | 16QAM | 15 | 0 | 14.49 | 14.45 | 14.63 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 14.47 | 14.59 | 14.68 | 15 | 0 |
| 3 | 64QAM | 1 | 8 | 14.66 | 14.62 | 14.73 | | |
| 3 | 64QAM | 1 | 14 | 14.59 | 14.54 | 14.87 | | |
| 3 | 64QAM | 8 | 0 | 14.55 | 14.62 | 14.81 | 15 | 0 |
| 3 | 64QAM | 8 | 4 | 14.56 | 14.60 | 14.77 | | |
| 3 | 64QAM | 8 | 7 | 14.57 | 14.56 | 14.82 | | |
| 3 | 64QAM | 15 | 0 | 14.59 | 14.70 | 14.95 | | |
| Channel | | | | 26047 | 26340 | 26683 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1850.7 | 1880 | 1914.3 | | |
| 1.4 | QPSK | 1 | 0 | 14.79 | 14.75 | 14.88 | 15 | 0 |
| 1.4 | QPSK | 1 | 3 | 14.77 | 14.73 | 14.90 | | |
| 1.4 | QPSK | 1 | 5 | 14.77 | 14.83 | 14.92 | | |
| 1.4 | QPSK | 3 | 0 | 14.87 | 14.71 | 14.78 | | |
| 1.4 | QPSK | 3 | 1 | 14.83 | 14.76 | 14.81 | | |
| 1.4 | QPSK | 3 | 3 | 14.74 | 14.76 | 14.89 | | |
| 1.4 | QPSK | 6 | 0 | 14.74 | 14.72 | 14.78 | 15 | 0 |
| 1.4 | 16QAM | 1 | 0 | 14.82 | 14.79 | 14.89 | 15 | 0 |
| 1.4 | 16QAM | 1 | 3 | 14.69 | 14.59 | 14.77 | | |
| 1.4 | 16QAM | 1 | 5 | 14.65 | 14.58 | 14.84 | | |
| 1.4 | 16QAM | 3 | 0 | 14.61 | 14.64 | 14.88 | | |
| 1.4 | 16QAM | 3 | 1 | 14.63 | 14.63 | 14.89 | | |
| 1.4 | 16QAM | 3 | 3 | 14.61 | 14.46 | 14.63 | | |
| 1.4 | 16QAM | 6 | 0 | 14.43 | 14.48 | 14.56 | 15 | 0 |
| 1.4 | 64QAM | 1 | 0 | 14.44 | 14.51 | 14.71 | 15 | 0 |
| 1.4 | 64QAM | 1 | 3 | 14.73 | 14.55 | 14.67 | | |
| 1.4 | 64QAM | 1 | 5 | 14.65 | 14.61 | 14.78 | | |
| 1.4 | 64QAM | 3 | 0 | 14.56 | 14.60 | 14.79 | | |
| 1.4 | 64QAM | 3 | 1 | 14.62 | 14.56 | 14.78 | | |
| 1.4 | 64QAM | 3 | 3 | 14.64 | 14.55 | 14.86 | | |
| 1.4 | 64QAM | 6 | 0 | 14.60 | 14.68 | 14.88 | 15 | 0 |



<LTE Band 26>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 26765 | 26865 | 26965 | | |
| Frequency (MHz) | | | | 821.5 | 831.5 | 841.5 | | |
| 15 | QPSK | 1 | 0 | 21.97 | 22.00 | 21.99 | 22.5 | 0 |
| 15 | QPSK | 1 | 37 | 21.88 | 21.95 | 21.98 | | |
| 15 | QPSK | 1 | 74 | 21.92 | 21.92 | 21.95 | | |
| 15 | QPSK | 36 | 0 | 21.67 | 21.59 | 21.80 | 22.5 | 0 |
| 15 | QPSK | 36 | 20 | 21.50 | 21.67 | 21.62 | | |
| 15 | QPSK | 36 | 39 | 21.75 | 21.76 | 21.69 | | |
| 15 | QPSK | 75 | 0 | 21.71 | 21.83 | 21.80 | 22.5 | 0 |
| 15 | 16QAM | 1 | 0 | 21.68 | 21.81 | 21.88 | | |
| 15 | 16QAM | 1 | 37 | 21.84 | 21.93 | 21.93 | | |
| 15 | 16QAM | 1 | 74 | 21.73 | 21.84 | 21.86 | 22 | 0.5 |
| 15 | 16QAM | 36 | 0 | 21.11 | 21.13 | 21.19 | | |
| 15 | 16QAM | 36 | 20 | 21.17 | 21.12 | 21.18 | | |
| 15 | 16QAM | 36 | 39 | 21.23 | 21.13 | 21.22 | 21 | 1.5 |
| 15 | 16QAM | 75 | 0 | 21.17 | 21.09 | 21.21 | | |
| 15 | 64QAM | 1 | 0 | 21.17 | 21.20 | 21.16 | | |
| 15 | 64QAM | 1 | 37 | 21.16 | 21.23 | 21.29 | 22 | 0.5 |
| 15 | 64QAM | 1 | 74 | 21.17 | 21.23 | 21.15 | | |
| 15 | 64QAM | 36 | 0 | 20.08 | 20.26 | 20.31 | | |
| 15 | 64QAM | 36 | 20 | 20.20 | 20.13 | 20.27 | 21 | 1.5 |
| 15 | 64QAM | 36 | 39 | 20.25 | 20.25 | 20.27 | | |
| 15 | 64QAM | 75 | 0 | 20.17 | 20.09 | 20.12 | | |
| Channel | | | | 26740 | 26865 | 26990 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 819 | 831.5 | 844 | | |
| 10 | QPSK | 1 | 0 | 21.91 | 21.93 | 21.94 | 22.5 | 0 |
| 10 | QPSK | 1 | 25 | 21.84 | 21.90 | 21.95 | | |
| 10 | QPSK | 1 | 49 | 21.88 | 21.85 | 21.88 | | |
| 10 | QPSK | 25 | 0 | 21.63 | 21.51 | 21.79 | 22.5 | 0 |
| 10 | QPSK | 25 | 12 | 21.42 | 21.64 | 21.56 | | |
| 10 | QPSK | 25 | 25 | 21.69 | 21.76 | 21.61 | | |
| 10 | QPSK | 50 | 0 | 21.68 | 21.75 | 21.77 | 22.5 | 0 |
| 10 | 16QAM | 1 | 0 | 21.65 | 21.79 | 21.84 | | |
| 10 | 16QAM | 1 | 25 | 21.78 | 21.85 | 21.84 | | |
| 10 | 16QAM | 1 | 49 | 21.73 | 21.75 | 21.83 | 22 | 0.5 |
| 10 | 16QAM | 25 | 0 | 21.09 | 21.04 | 21.12 | | |
| 10 | 16QAM | 25 | 12 | 21.13 | 21.10 | 21.15 | | |
| 10 | 16QAM | 25 | 25 | 21.14 | 21.06 | 21.20 | 22 | 0.5 |
| 10 | 16QAM | 50 | 0 | 21.14 | 20.99 | 21.15 | | |
| 10 | 64QAM | 1 | 0 | 21.17 | 21.13 | 21.11 | | |
| 10 | 64QAM | 1 | 25 | 21.07 | 21.22 | 21.26 | 21 | 1.5 |
| 10 | 64QAM | 1 | 49 | 21.11 | 21.23 | 21.05 | | |
| 10 | 64QAM | 25 | 0 | 20.06 | 20.18 | 20.31 | | |
| 10 | 64QAM | 25 | 12 | 20.14 | 20.13 | 20.25 | 21 | 1.5 |
| 10 | 64QAM | 25 | 25 | 20.22 | 20.17 | 20.20 | | |
| 10 | 64QAM | 50 | 0 | 20.10 | 20.05 | 20.11 | | |
| Channel | | | | 26715 | 26865 | 27015 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 816.5 | 831.5 | 846.5 | | |
| 5 | QPSK | 1 | 0 | 21.94 | 21.91 | 21.97 | 22.5 | 0 |
| 5 | QPSK | 1 | 12 | 21.88 | 21.89 | 21.96 | | |
| 5 | QPSK | 1 | 24 | 21.92 | 21.86 | 21.95 | | |
| 5 | QPSK | 12 | 0 | 21.62 | 21.56 | 21.76 | 22.5 | 0 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|-------|-------|-------|---------------------|----------|
| 5 | QPSK | 12 | 7 | 21.49 | 21.63 | 21.56 | | |
| 5 | QPSK | 12 | 13 | 21.67 | 21.73 | 21.59 | | |
| 5 | QPSK | 25 | 0 | 21.65 | 21.78 | 21.72 | | |
| 5 | 16QAM | 1 | 0 | 21.65 | 21.80 | 21.86 | 22.5 | 0 |
| 5 | 16QAM | 1 | 12 | 21.79 | 21.92 | 21.89 | | |
| 5 | 16QAM | 1 | 24 | 21.70 | 21.78 | 21.86 | | |
| 5 | 16QAM | 12 | 0 | 21.07 | 21.08 | 21.12 | 22 | 0.5 |
| 5 | 16QAM | 12 | 7 | 21.09 | 21.12 | 21.09 | | |
| 5 | 16QAM | 12 | 13 | 21.18 | 21.05 | 21.14 | | |
| 5 | 16QAM | 25 | 0 | 21.07 | 21.08 | 21.20 | | |
| 5 | 64QAM | 1 | 0 | 21.09 | 21.12 | 21.11 | 22 | 0.5 |
| 5 | 64QAM | 1 | 12 | 21.06 | 21.20 | 21.22 | | |
| 5 | 64QAM | 1 | 24 | 21.14 | 21.15 | 21.10 | | |
| 5 | 64QAM | 12 | 0 | 20.01 | 20.22 | 20.30 | 21 | 1.5 |
| 5 | 64QAM | 12 | 7 | 20.14 | 20.12 | 20.26 | | |
| 5 | 64QAM | 12 | 13 | 20.24 | 20.21 | 20.26 | | |
| 5 | 64QAM | 25 | 0 | 20.15 | 20.00 | 20.09 | | |
| Channel | | | | 26705 | 26865 | 27025 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 815.5 | 831.5 | 847.5 | | |
| 3 | QPSK | 1 | 0 | 21.92 | 21.91 | 21.93 | 22.5 | 0 |
| 3 | QPSK | 1 | 8 | 21.82 | 21.94 | 21.94 | | |
| 3 | QPSK | 1 | 14 | 21.90 | 21.86 | 21.86 | | |
| 3 | QPSK | 8 | 0 | 21.64 | 21.58 | 21.75 | 22.5 | 0 |
| 3 | QPSK | 8 | 4 | 21.48 | 21.60 | 21.62 | | |
| 3 | QPSK | 8 | 7 | 21.70 | 21.75 | 21.66 | | |
| 3 | QPSK | 15 | 0 | 21.61 | 21.73 | 21.78 | | |
| 3 | 16QAM | 1 | 0 | 21.59 | 21.79 | 21.81 | 22.5 | 0 |
| 3 | 16QAM | 1 | 8 | 21.75 | 21.88 | 21.92 | | |
| 3 | 16QAM | 1 | 14 | 21.67 | 21.83 | 21.78 | | |
| 3 | 16QAM | 8 | 0 | 21.02 | 21.12 | 21.16 | 22 | 0.5 |
| 3 | 16QAM | 8 | 4 | 21.16 | 21.08 | 21.11 | | |
| 3 | 16QAM | 8 | 7 | 21.14 | 21.13 | 21.15 | | |
| 3 | 16QAM | 15 | 0 | 21.13 | 21.01 | 21.13 | | |
| 3 | 64QAM | 1 | 0 | 21.17 | 21.20 | 21.14 | 22 | 0.5 |
| 3 | 64QAM | 1 | 8 | 21.13 | 21.13 | 21.20 | | |
| 3 | 64QAM | 1 | 14 | 21.17 | 21.17 | 21.08 | | |
| 3 | 64QAM | 8 | 0 | 20.01 | 20.17 | 20.23 | 21 | 1.5 |
| 3 | 64QAM | 8 | 4 | 20.16 | 20.04 | 20.17 | | |
| 3 | 64QAM | 8 | 7 | 20.17 | 20.21 | 20.25 | | |
| 3 | 64QAM | 15 | 0 | 20.15 | 20.02 | 20.11 | | |
| Channel | | | | 26697 | 26865 | 27033 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 814.7 | 831.5 | 848.3 | | |
| 1.4 | QPSK | 1 | 0 | 21.87 | 21.86 | 21.99 | 22.5 | 0 |
| 1.4 | QPSK | 1 | 3 | 21.84 | 21.88 | 21.93 | | |
| 1.4 | QPSK | 1 | 5 | 21.82 | 21.92 | 21.88 | | |
| 1.4 | QPSK | 3 | 0 | 21.62 | 21.54 | 21.70 | 22.5 | 0 |
| 1.4 | QPSK | 3 | 1 | 21.48 | 21.64 | 21.54 | | |
| 1.4 | QPSK | 3 | 3 | 21.71 | 21.74 | 21.67 | | |
| 1.4 | QPSK | 6 | 0 | 21.63 | 21.81 | 21.70 | 22.5 | 0 |
| 1.4 | 16QAM | 1 | 0 | 21.62 | 21.79 | 21.78 | 22.5 | 0 |
| 1.4 | 16QAM | 1 | 3 | 21.79 | 21.90 | 21.86 | | |
| 1.4 | 16QAM | 1 | 5 | 21.66 | 21.76 | 21.83 | | |
| 1.4 | 16QAM | 3 | 0 | 21.71 | 21.71 | 21.66 | 22.5 | 0 |
| 1.4 | 16QAM | 3 | 1 | 21.65 | 21.74 | 21.79 | | |
| 1.4 | 16QAM | 3 | 3 | 21.58 | 21.74 | 21.78 | | |
| 1.4 | 16QAM | 6 | 0 | 21.08 | 21.05 | 21.12 | 22 | 0.5 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----|-------|---|---|-------|-------|-------|----|-----|
| 1.4 | 64QAM | 1 | 0 | 21.17 | 21.13 | 21.09 | 22 | 0.5 |
| 1.4 | 64QAM | 1 | 3 | 21.14 | 21.23 | 21.26 | | |
| 1.4 | 64QAM | 1 | 5 | 21.15 | 21.16 | 21.09 | | |
| 1.4 | 64QAM | 3 | 0 | 21.10 | 21.15 | 21.15 | | |
| 1.4 | 64QAM | 3 | 1 | 21.16 | 21.21 | 21.22 | | |
| 1.4 | 64QAM | 3 | 3 | 21.09 | 21.19 | 21.08 | | |
| 1.4 | 64QAM | 6 | 0 | 20.16 | 20.06 | 20.04 | 21 | 1.5 |



<LTE Band 30>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 27710 | | | 16 | 0 |
| Frequency (MHz) | | | | 2310 | | | | |
| 10 | QPSK | 1 | 0 | | 15.61 | | 16 | 0 |
| 10 | QPSK | 1 | 25 | | 15.54 | | | |
| 10 | QPSK | 1 | 49 | | 15.59 | | | |
| 10 | QPSK | 25 | 0 | | 15.19 | | 16 | 0 |
| 10 | QPSK | 25 | 12 | | 15.27 | | | |
| 10 | QPSK | 25 | 25 | | 15.35 | | | |
| 10 | QPSK | 50 | 0 | | 15.25 | | 16 | 0 |
| 10 | 16QAM | 1 | 0 | | 15.19 | | | |
| 10 | 16QAM | 1 | 25 | | 15.21 | | | |
| 10 | 16QAM | 1 | 49 | | 15.29 | | 16 | 0 |
| 10 | 16QAM | 25 | 0 | | 15.27 | | | |
| 10 | 16QAM | 25 | 12 | | 15.31 | | | |
| 10 | 16QAM | 25 | 25 | | 15.46 | | 16 | 0 |
| 10 | 16QAM | 50 | 0 | | 15.32 | | | |
| 10 | 64QAM | 1 | 0 | | 15.31 | | | |
| 10 | 64QAM | 1 | 25 | | 15.46 | | 16 | 0 |
| 10 | 64QAM | 1 | 49 | | 15.50 | | | |
| 10 | 64QAM | 25 | 0 | | 15.19 | | | |
| 10 | 64QAM | 25 | 12 | | 15.30 | | 16 | 0 |
| 10 | 64QAM | 25 | 25 | | 15.37 | | | |
| 10 | 64QAM | 50 | 0 | | 15.11 | | | |
| Channel | | | | 27685 | 27710 | 27735 | 16 | 0 |
| Frequency (MHz) | | | | 2307.5 | 2310 | 2312.5 | | |
| 5 | QPSK | 1 | 0 | 15.52 | 15.58 | 15.60 | 16 | 0 |
| 5 | QPSK | 1 | 12 | 15.54 | 15.53 | 15.48 | | |
| 5 | QPSK | 1 | 24 | 15.52 | 15.55 | 15.57 | | |
| 5 | QPSK | 12 | 0 | 15.09 | 15.15 | 15.13 | 16 | 0 |
| 5 | QPSK | 12 | 7 | 15.27 | 15.26 | 15.20 | | |
| 5 | QPSK | 12 | 13 | 15.25 | 15.30 | 15.35 | | |
| 5 | QPSK | 25 | 0 | 15.17 | 15.22 | 15.23 | 16 | 0 |
| 5 | 16QAM | 1 | 0 | 15.19 | 15.14 | 15.09 | | |
| 5 | 16QAM | 1 | 12 | 15.12 | 15.20 | 15.17 | | |
| 5 | 16QAM | 1 | 24 | 15.25 | 15.24 | 15.24 | 16 | 0 |
| 5 | 16QAM | 12 | 0 | 15.25 | 15.27 | 15.27 | | |
| 5 | 16QAM | 12 | 7 | 15.23 | 15.26 | 15.31 | | |
| 5 | 16QAM | 12 | 13 | 15.44 | 15.40 | 15.41 | 16 | 0 |
| 5 | 16QAM | 25 | 0 | 15.28 | 15.30 | 15.28 | | |
| 5 | 64QAM | 1 | 0 | 15.27 | 15.27 | 15.23 | | |
| 5 | 64QAM | 1 | 12 | 15.37 | 15.38 | 15.39 | 16 | 0 |
| 5 | 64QAM | 1 | 24 | 15.45 | 15.45 | 15.47 | | |
| 5 | 64QAM | 12 | 0 | 15.16 | 15.14 | 15.18 | | |
| 5 | 64QAM | 12 | 7 | 15.20 | 15.29 | 15.20 | 16 | 0 |
| 5 | 64QAM | 12 | 13 | 15.37 | 15.28 | 15.32 | | |
| 5 | 64QAM | 25 | 0 | 15.11 | 15.06 | 15.06 | | |



<LTE Band 66>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 132072 | 132322 | 132572 | | |
| Frequency (MHz) | | | | 1720 | 1745 | 1770 | | |
| 20 | QPSK | 1 | 0 | 13.87 | 13.77 | 13.97 | 14 | 0 |
| 20 | QPSK | 1 | 49 | 13.77 | 13.77 | 13.55 | | |
| 20 | QPSK | 1 | 99 | 13.85 | 13.72 | 13.53 | | |
| 20 | QPSK | 50 | 0 | 13.85 | 13.74 | 13.72 | 14 | 0 |
| 20 | QPSK | 50 | 24 | 13.83 | 13.75 | 13.67 | | |
| 20 | QPSK | 50 | 50 | 13.72 | 13.70 | 13.57 | | |
| 20 | QPSK | 100 | 0 | 13.83 | 13.71 | 13.66 | 14 | 0 |
| 20 | 16QAM | 1 | 0 | 13.80 | 13.91 | 13.92 | | |
| 20 | 16QAM | 1 | 49 | 13.83 | 13.86 | 13.82 | | |
| 20 | 16QAM | 1 | 99 | 13.90 | 13.88 | 13.72 | 14 | 0 |
| 20 | 16QAM | 50 | 0 | 13.88 | 13.79 | 13.75 | | |
| 20 | 16QAM | 50 | 24 | 13.84 | 13.73 | 13.64 | | |
| 20 | 16QAM | 50 | 50 | 13.80 | 13.71 | 13.62 | 14 | 0 |
| 20 | 16QAM | 100 | 0 | 13.82 | 13.78 | 13.68 | | |
| 20 | 64QAM | 1 | 0 | 13.92 | 13.88 | 13.86 | | |
| 20 | 64QAM | 1 | 49 | 13.87 | 13.84 | 13.68 | 14 | 0 |
| 20 | 64QAM | 1 | 99 | 13.91 | 13.79 | 13.59 | | |
| 20 | 64QAM | 50 | 0 | 13.93 | 13.84 | 13.82 | | |
| 20 | 64QAM | 50 | 24 | 13.87 | 13.79 | 13.70 | 14 | 0 |
| 20 | 64QAM | 50 | 50 | 13.83 | 13.73 | 13.65 | | |
| 20 | 64QAM | 100 | 0 | 13.87 | 13.79 | 13.70 | | |
| Channel | | | | 132047 | 132322 | 132597 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1717.5 | 1745 | 1772.5 | | |
| 15 | QPSK | 1 | 0 | 13.87 | 13.95 | 13.66 | 14 | 0 |
| 15 | QPSK | 1 | 37 | 13.71 | 13.77 | 13.47 | | |
| 15 | QPSK | 1 | 74 | 13.85 | 13.77 | 13.51 | | |
| 15 | QPSK | 36 | 0 | 13.85 | 13.83 | 13.70 | 14 | 0 |
| 15 | QPSK | 36 | 20 | 13.73 | 13.71 | 13.65 | | |
| 15 | QPSK | 36 | 39 | 13.72 | 13.62 | 13.57 | | |
| 15 | QPSK | 75 | 0 | 13.76 | 13.66 | 13.65 | 14 | 0 |
| 15 | 16QAM | 1 | 0 | 13.81 | 13.83 | 13.86 | | |
| 15 | 16QAM | 1 | 37 | 13.89 | 13.88 | 13.73 | | |
| 15 | 16QAM | 1 | 74 | 13.84 | 13.86 | 13.71 | 14 | 0 |
| 15 | 16QAM | 36 | 0 | 13.78 | 13.75 | 13.66 | | |
| 15 | 16QAM | 36 | 20 | 13.79 | 13.69 | 13.62 | | |
| 15 | 16QAM | 36 | 39 | 13.77 | 13.66 | 13.56 | 14 | 0 |
| 15 | 16QAM | 75 | 0 | 13.79 | 13.70 | 13.59 | | |
| 15 | 64QAM | 1 | 0 | 13.89 | 13.83 | 13.85 | | |
| 15 | 64QAM | 1 | 37 | 13.77 | 13.79 | 13.65 | 14 | 0 |
| 15 | 64QAM | 1 | 74 | 13.90 | 13.77 | 13.53 | | |
| 15 | 64QAM | 36 | 0 | 13.86 | 13.84 | 13.75 | | |
| 15 | 64QAM | 36 | 20 | 13.85 | 13.74 | 13.67 | 14 | 0 |
| 15 | 64QAM | 36 | 39 | 13.79 | 13.71 | 13.59 | | |
| 15 | 64QAM | 75 | 0 | 13.81 | 13.70 | 13.69 | | |
| Channel | | | | 132022 | 132322 | 132622 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1715 | 1745 | 1775 | | |
| 10 | QPSK | 1 | 0 | 13.79 | 13.93 | 13.71 | 14 | 0 |
| 10 | QPSK | 1 | 25 | 13.76 | 13.77 | 13.47 | | |
| 10 | QPSK | 1 | 49 | 13.79 | 13.80 | 13.53 | | |
| 10 | QPSK | 25 | 0 | 13.87 | 13.75 | 13.70 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|---------------------|----------|
| 10 | QPSK | 25 | 12 | 13.76 | 13.68 | 13.65 | | |
| 10 | QPSK | 25 | 25 | 13.65 | 13.62 | 13.51 | | |
| 10 | QPSK | 50 | 0 | 13.78 | 13.71 | 13.64 | | |
| 10 | 16QAM | 1 | 0 | 13.83 | 13.82 | 13.86 | 14 | 0 |
| 10 | 16QAM | 1 | 25 | 13.87 | 13.89 | 13.73 | | |
| 10 | 16QAM | 1 | 49 | 13.87 | 13.87 | 13.72 | | |
| 10 | 16QAM | 25 | 0 | 13.82 | 13.74 | 13.66 | 14 | 0 |
| 10 | 16QAM | 25 | 12 | 13.84 | 13.73 | 13.56 | | |
| 10 | 16QAM | 25 | 25 | 13.78 | 13.61 | 13.54 | | |
| 10 | 16QAM | 50 | 0 | 13.82 | 13.76 | 13.67 | | |
| 10 | 64QAM | 1 | 0 | 13.88 | 13.82 | 13.77 | 14 | 0 |
| 10 | 64QAM | 1 | 25 | 13.86 | 13.83 | 13.63 | | |
| 10 | 64QAM | 1 | 49 | 13.81 | 13.74 | 13.54 | | |
| 10 | 64QAM | 25 | 0 | 13.85 | 13.82 | 13.80 | 14 | 0 |
| 10 | 64QAM | 25 | 12 | 13.79 | 13.76 | 13.69 | | |
| 10 | 64QAM | 25 | 25 | 13.81 | 13.63 | 13.60 | | |
| 10 | 64QAM | 50 | 0 | 13.85 | 13.79 | 13.65 | | |
| Channel | | | | 131997 | 132322 | 132647 | | |
| Frequency (MHz) | | | | 1712.5 | 1745 | 1777.5 | | |
| 5 | QPSK | 1 | 0 | 13.78 | 13.92 | 13.69 | 14 | 0 |
| 5 | QPSK | 1 | 12 | 13.71 | 13.68 | 13.50 | | |
| 5 | QPSK | 1 | 24 | 13.81 | 13.81 | 13.44 | | |
| 5 | QPSK | 12 | 0 | 13.87 | 13.84 | 13.65 | 14 | 0 |
| 5 | QPSK | 12 | 7 | 13.78 | 13.67 | 13.66 | | |
| 5 | QPSK | 12 | 13 | 13.70 | 13.68 | 13.52 | | |
| 5 | QPSK | 25 | 0 | 13.78 | 13.71 | 13.56 | | |
| 5 | 16QAM | 1 | 0 | 13.82 | 13.90 | 13.91 | | |
| 5 | 16QAM | 1 | 12 | 13.87 | 13.91 | 13.76 | 14 | 0 |
| 5 | 16QAM | 1 | 24 | 13.90 | 13.78 | 13.67 | | |
| 5 | 16QAM | 12 | 0 | 13.84 | 13.69 | 13.70 | | |
| 5 | 16QAM | 12 | 7 | 13.82 | 13.66 | 13.60 | 14 | 0 |
| 5 | 16QAM | 12 | 13 | 13.80 | 13.64 | 13.61 | | |
| 5 | 16QAM | 25 | 0 | 13.77 | 13.70 | 13.68 | | |
| 5 | 64QAM | 1 | 0 | 13.82 | 13.83 | 13.85 | | |
| 5 | 64QAM | 1 | 12 | 13.77 | 13.76 | 13.58 | | |
| 5 | 64QAM | 1 | 24 | 13.90 | 13.77 | 13.55 | 14 | 0 |
| 5 | 64QAM | 12 | 0 | 13.91 | 13.80 | 13.75 | | |
| 5 | 64QAM | 12 | 7 | 13.86 | 13.69 | 13.64 | | |
| 5 | 64QAM | 12 | 13 | 13.83 | 13.71 | 13.62 | | |
| 5 | 64QAM | 25 | 0 | 13.85 | 13.71 | 13.65 | | |
| Channel | | | | 131987 | 132322 | 132657 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1711.5 | 1745 | 1778.5 | | |
| 3 | QPSK | 1 | 0 | 13.84 | 13.89 | 13.66 | 14 | 0 |
| 3 | QPSK | 1 | 8 | 13.71 | 13.73 | 13.50 | | |
| 3 | QPSK | 1 | 14 | 13.77 | 13.79 | 13.53 | | |
| 3 | QPSK | 8 | 0 | 13.85 | 13.76 | 13.68 | 14 | 0 |
| 3 | QPSK | 8 | 4 | 13.77 | 13.74 | 13.60 | | |
| 3 | QPSK | 8 | 7 | 13.69 | 13.61 | 13.56 | | |
| 3 | QPSK | 15 | 0 | 13.75 | 13.66 | 13.61 | | |
| 3 | 16QAM | 1 | 0 | 13.88 | 13.90 | 13.86 | | |
| 3 | 16QAM | 1 | 8 | 13.86 | 13.95 | 13.76 | 14 | 0 |
| 3 | 16QAM | 1 | 14 | 13.80 | 13.86 | 13.70 | | |
| 3 | 16QAM | 8 | 0 | 13.79 | 13.79 | 13.73 | | |
| 3 | 16QAM | 8 | 4 | 13.83 | 13.69 | 13.56 | 14 | 0 |
| 3 | 16QAM | 8 | 7 | 13.80 | 13.69 | 13.61 | | |
| 3 | 16QAM | 15 | 0 | 13.78 | 13.69 | 13.67 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|--------|--------|------------------------|-------------|
| 3 | 64QAM | 1 | 0 | 13.82 | 13.81 | 13.82 | 14 | 0 |
| 3 | 64QAM | 1 | 8 | 13.84 | 13.78 | 13.63 | | |
| 3 | 64QAM | 1 | 14 | 13.90 | 13.74 | 13.51 | | |
| 3 | 64QAM | 8 | 0 | 13.91 | 13.79 | 13.76 | 14 | 0 |
| 3 | 64QAM | 8 | 4 | 13.81 | 13.78 | 13.60 | | |
| 3 | 64QAM | 8 | 7 | 13.81 | 13.63 | 13.55 | | |
| 3 | 64QAM | 15 | 0 | 13.83 | 13.78 | 13.66 | | |
| Channel | | | | 131979 | 132322 | 132665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 1710.7 | 1745 | 1779.3 | | |
| 1.4 | QPSK | 1 | 0 | 13.86 | 13.87 | 13.68 | 14 | 0 |
| 1.4 | QPSK | 1 | 3 | 13.67 | 13.72 | 13.48 | | |
| 1.4 | QPSK | 1 | 5 | 13.83 | 13.75 | 13.52 | | |
| 1.4 | QPSK | 3 | 0 | 13.87 | 13.83 | 13.72 | | |
| 1.4 | QPSK | 3 | 1 | 13.81 | 13.66 | 13.62 | | |
| 1.4 | QPSK | 3 | 3 | 13.63 | 13.62 | 13.55 | | |
| 1.4 | QPSK | 6 | 0 | 13.80 | 13.70 | 13.59 | | |
| 1.4 | 16QAM | 1 | 0 | 13.86 | 13.82 | 13.85 | 14 | 0 |
| 1.4 | 16QAM | 1 | 3 | 13.91 | 13.93 | 13.72 | | |
| 1.4 | 16QAM | 1 | 5 | 13.86 | 13.82 | 13.69 | | |
| 1.4 | 16QAM | 3 | 0 | 13.81 | 13.71 | 13.65 | | |
| 1.4 | 16QAM | 3 | 1 | 13.81 | 13.66 | 13.63 | | |
| 1.4 | 16QAM | 3 | 3 | 13.74 | 13.68 | 13.55 | | |
| 1.4 | 16QAM | 6 | 0 | 13.77 | 13.78 | 13.59 | | |
| 1.4 | 64QAM | 1 | 0 | 13.83 | 13.82 | 13.79 | 14 | 0 |
| 1.4 | 64QAM | 1 | 3 | 13.81 | 13.80 | 13.64 | | |
| 1.4 | 64QAM | 1 | 5 | 13.86 | 13.73 | 13.52 | | |
| 1.4 | 64QAM | 3 | 0 | 13.87 | 13.76 | 13.73 | | |
| 1.4 | 64QAM | 3 | 1 | 13.83 | 13.75 | 13.62 | | |
| 1.4 | 64QAM | 3 | 3 | 13.79 | 13.67 | 13.57 | | |
| 1.4 | 64QAM | 6 | 0 | 13.83 | 13.69 | 13.65 | | |

<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.

- a. 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations
- b. "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
- c. 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.

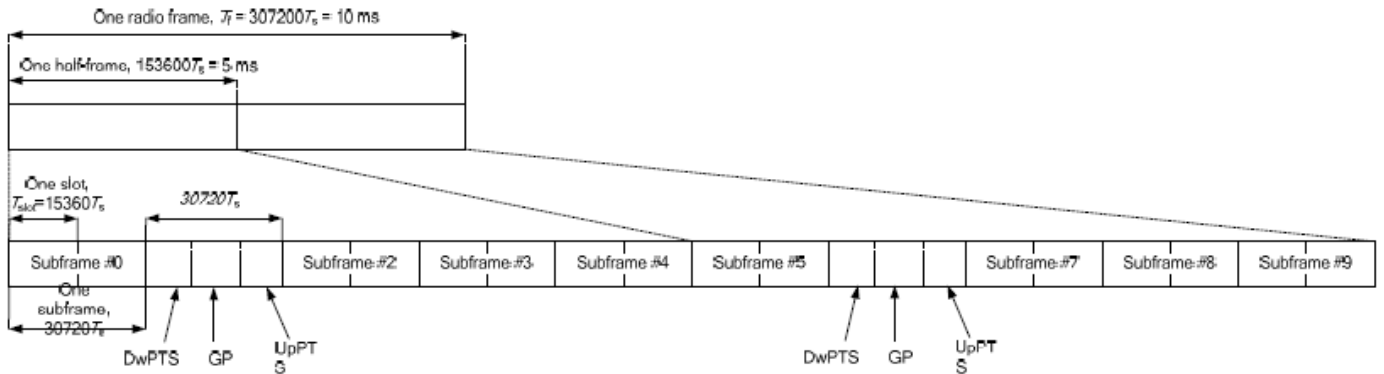


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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 | $26336 \cdot T_s$ | | | $7680 \cdot T_s$ | | | | |
| 5 | $6592 \cdot T_s$ | $4384 \cdot T_s$ | $5120 \cdot T_s$ | $20480 \cdot T_s$ | $4384 \cdot T_s$ | $5120 \cdot T_s$ | | |
| 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_s): 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_s): 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:

- i. Uplink-downlink configuration: 0. In a half-frame consisted of 5 subframes, uplink operation is in 3 uplink subframes and 1 special subframe.
- ii. special subframe configuration: 5-9 for normal cyclic prefix in downlink, 4-7 for extended cyclic prefix in downlink
- iii. for special subframe with extended cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.167)/5 = 63.3\%$
- iv. for special subframe with normal cyclic prefix in uplink, the total uplink duty factor in one half-frame is: $(3+0.143)/5 = 62.9\%$
- v. 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.



<Default Power Mode>

<LTE Band 38>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 37850 | 38000 | 38150 | | |
| Frequency (MHz) | | | | 2580 | 2595 | 2610 | | |
| 20 | QPSK | 1 | 0 | 22.66 | 22.93 | 23.16 | | |
| 20 | QPSK | 1 | 49 | 22.74 | 23.16 | 23.25 | 24 | 0 |
| 20 | QPSK | 1 | 99 | 22.94 | 23.24 | 23.31 | | |
| 20 | QPSK | 50 | 0 | 21.72 | 22.15 | 22.36 | | |
| 20 | QPSK | 50 | 24 | 21.91 | 22.27 | 22.39 | 23 | 1 |
| 20 | QPSK | 50 | 50 | 22.02 | 22.36 | 22.46 | | |
| 20 | QPSK | 100 | 0 | 21.91 | 22.25 | 22.39 | | |
| 20 | 16QAM | 1 | 0 | 21.74 | 21.99 | 22.25 | 23 | 1 |
| 20 | 16QAM | 1 | 49 | 21.83 | 22.22 | 22.32 | | |
| 20 | 16QAM | 1 | 99 | 22.06 | 22.38 | 22.33 | | |
| 20 | 16QAM | 50 | 0 | 20.76 | 21.19 | 21.40 | 22 | 2 |
| 20 | 16QAM | 50 | 24 | 20.94 | 21.28 | 21.40 | | |
| 20 | 16QAM | 50 | 50 | 21.04 | 21.38 | 21.51 | | |
| 20 | 16QAM | 100 | 0 | 20.93 | 21.27 | 21.39 | 22 | 2 |
| 20 | 64QAM | 1 | 0 | 20.41 | 20.67 | 20.92 | | |
| 20 | 64QAM | 1 | 49 | 20.58 | 20.96 | 21.00 | | |
| 20 | 64QAM | 1 | 99 | 20.83 | 21.10 | 21.16 | 21 | 3 |
| 20 | 64QAM | 50 | 0 | 19.75 | 20.21 | 20.40 | | |
| 20 | 64QAM | 50 | 24 | 19.93 | 20.31 | 20.41 | | |
| 20 | 64QAM | 50 | 50 | 20.04 | 20.39 | 20.48 | 21 | 3 |
| 20 | 64QAM | 100 | 0 | 19.92 | 20.28 | 20.40 | | |
| Channel | | | | 37825 | 38000 | 38175 | | |
| Frequency (MHz) | | | | 2577.5 | 2595 | 2612.5 | | |
| 15 | QPSK | 1 | 0 | 22.57 | 22.90 | 23.13 | 24 | 0 |
| 15 | QPSK | 1 | 37 | 22.70 | 23.06 | 23.23 | | |
| 15 | QPSK | 1 | 74 | 22.87 | 23.15 | 23.30 | | |
| 15 | QPSK | 36 | 0 | 21.70 | 22.10 | 22.32 | 23 | 1 |
| 15 | QPSK | 36 | 20 | 21.89 | 22.19 | 22.36 | | |
| 15 | QPSK | 36 | 39 | 22.02 | 22.27 | 22.42 | | |
| 15 | QPSK | 75 | 0 | 21.83 | 22.17 | 22.37 | 23 | 1 |
| 15 | 16QAM | 1 | 0 | 21.67 | 21.95 | 22.17 | | |
| 15 | 16QAM | 1 | 37 | 21.77 | 22.19 | 22.23 | | |
| 15 | 16QAM | 1 | 74 | 21.96 | 22.36 | 22.25 | 22 | 2 |
| 15 | 16QAM | 36 | 0 | 20.69 | 21.15 | 21.30 | | |
| 15 | 16QAM | 36 | 20 | 20.86 | 21.26 | 21.30 | | |
| 15 | 16QAM | 36 | 39 | 20.96 | 21.32 | 21.51 | 22 | 2 |
| 15 | 16QAM | 75 | 0 | 20.84 | 21.26 | 21.35 | | |
| 15 | 64QAM | 1 | 0 | 20.39 | 20.59 | 20.82 | | |
| 15 | 64QAM | 1 | 37 | 20.50 | 20.93 | 20.96 | 22 | 2 |
| 15 | 64QAM | 1 | 74 | 20.76 | 21.00 | 21.09 | | |
| 15 | 64QAM | 36 | 0 | 19.71 | 20.13 | 20.32 | | |
| 15 | 64QAM | 36 | 20 | 19.89 | 20.30 | 20.38 | 21 | 3 |
| 15 | 64QAM | 36 | 39 | 19.95 | 20.30 | 20.45 | | |
| 15 | 64QAM | 75 | 0 | 19.86 | 20.19 | 20.40 | | |
| Channel | | | | 37800 | 38000 | 38200 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2575 | 2595 | 2615 | | |
| 10 | QPSK | 1 | 0 | 22.65 | 22.93 | 23.12 | 24 | 0 |
| 10 | QPSK | 1 | 25 | 22.70 | 23.07 | 23.17 | | |
| 10 | QPSK | 1 | 49 | 22.85 | 23.21 | 23.26 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | |
|-----------------|-------|----|----|--------|-------|--------|---------------------|----------|
| 10 | QPSK | 25 | 0 | 21.70 | 22.05 | 22.26 | 23 | 1 |
| 10 | QPSK | 25 | 12 | 21.90 | 22.21 | 22.29 | | |
| 10 | QPSK | 25 | 25 | 22.00 | 22.34 | 22.36 | | |
| 10 | QPSK | 50 | 0 | 21.90 | 22.23 | 22.36 | 23 | 1 |
| 10 | 16QAM | 1 | 0 | 21.65 | 21.97 | 22.19 | | |
| 10 | 16QAM | 1 | 25 | 21.79 | 22.13 | 22.24 | | |
| 10 | 16QAM | 1 | 49 | 22.02 | 22.32 | 22.25 | 22 | 2 |
| 10 | 16QAM | 25 | 0 | 20.70 | 21.13 | 21.33 | | |
| 10 | 16QAM | 25 | 12 | 20.89 | 21.27 | 21.33 | | |
| 10 | 16QAM | 25 | 25 | 20.95 | 21.30 | 21.51 | 22 | 2 |
| 10 | 16QAM | 50 | 0 | 20.89 | 21.22 | 21.37 | | |
| 10 | 64QAM | 1 | 0 | 20.31 | 20.66 | 20.82 | | |
| 10 | 64QAM | 1 | 25 | 20.51 | 20.86 | 20.91 | 21 | 3 |
| 10 | 64QAM | 1 | 49 | 20.75 | 21.10 | 21.16 | | |
| 10 | 64QAM | 25 | 0 | 19.75 | 20.16 | 20.39 | | |
| 10 | 64QAM | 25 | 12 | 19.91 | 20.29 | 20.40 | 24 | 0 |
| 10 | 64QAM | 25 | 25 | 20.00 | 20.35 | 20.44 | | |
| 10 | 64QAM | 50 | 0 | 19.91 | 20.19 | 20.38 | | |
| Channel | | | | 37775 | 38000 | 38225 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2572.5 | 2595 | 2617.5 | | |
| 5 | QPSK | 1 | 0 | 22.64 | 22.87 | 23.09 | 23 | 1 |
| 5 | QPSK | 1 | 12 | 22.74 | 23.14 | 23.24 | | |
| 5 | QPSK | 1 | 24 | 22.88 | 23.21 | 23.29 | | |
| 5 | QPSK | 12 | 0 | 21.68 | 22.12 | 22.29 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 21.90 | 22.26 | 22.37 | | |
| 5 | QPSK | 12 | 13 | 21.94 | 22.35 | 22.46 | | |
| 5 | QPSK | 25 | 0 | 21.82 | 22.15 | 22.34 | 23 | 1 |
| 5 | 16QAM | 1 | 0 | 21.72 | 21.91 | 22.18 | | |
| 5 | 16QAM | 1 | 12 | 21.81 | 22.12 | 22.25 | | |
| 5 | 16QAM | 1 | 24 | 22.05 | 22.34 | 22.31 | 22 | 2 |
| 5 | 16QAM | 12 | 0 | 20.74 | 21.09 | 21.36 | | |
| 5 | 16QAM | 12 | 7 | 20.86 | 21.19 | 21.31 | | |
| 5 | 16QAM | 12 | 13 | 20.99 | 21.37 | 21.50 | 22 | 2 |
| 5 | 16QAM | 25 | 0 | 20.86 | 21.18 | 21.37 | | |
| 5 | 64QAM | 1 | 0 | 20.39 | 20.63 | 20.85 | | |
| 5 | 64QAM | 1 | 12 | 20.55 | 20.90 | 20.96 | 21 | 3 |
| 5 | 64QAM | 1 | 24 | 20.75 | 21.03 | 21.15 | | |
| 5 | 64QAM | 12 | 0 | 19.65 | 20.12 | 20.40 | | |
| 5 | 64QAM | 12 | 7 | 19.92 | 20.22 | 20.34 | 21 | 3 |
| 5 | 64QAM | 12 | 13 | 19.94 | 20.29 | 20.45 | | |
| 5 | 64QAM | 25 | 0 | 19.89 | 20.21 | 20.32 | | |



<LTE Band 41>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel | | | | 39750 | 40185 | 40620 | 41055 | 41490 | | |
| Frequency (MHz) | | | | 2506 | 2549.5 | 2593 | 2636.5 | 2680 | | |
| 20 | QPSK | 1 | 0 | 23.13 | 23.15 | 23.34 | 23.24 | 23.37 | 24 | 0 |
| 20 | QPSK | 1 | 49 | 23.16 | 23.18 | 23.27 | 23.20 | 23.32 | | |
| 20 | QPSK | 1 | 99 | 23.17 | 23.21 | 23.35 | 23.28 | 23.41 | | |
| 20 | QPSK | 50 | 0 | 22.21 | 22.25 | 22.35 | 22.32 | 22.40 | 23 | 1 |
| 20 | QPSK | 50 | 24 | 22.31 | 22.34 | 22.43 | 22.33 | 22.41 | | |
| 20 | QPSK | 50 | 50 | 22.32 | 22.36 | 22.46 | 22.35 | 22.49 | | |
| 20 | QPSK | 100 | 0 | 22.31 | 22.37 | 22.40 | 22.33 | 22.45 | 23 | 1 |
| 20 | 16QAM | 1 | 0 | 22.25 | 22.25 | 22.45 | 22.38 | 22.49 | | |
| 20 | 16QAM | 1 | 49 | 22.24 | 22.22 | 22.31 | 22.22 | 22.41 | | |
| 20 | 16QAM | 1 | 99 | 22.30 | 22.27 | 22.47 | 22.32 | 22.51 | 22 | 2 |
| 20 | 16QAM | 50 | 0 | 21.24 | 21.31 | 21.40 | 21.38 | 21.43 | | |
| 20 | 16QAM | 50 | 24 | 21.33 | 21.40 | 21.47 | 21.37 | 21.45 | | |
| 20 | 16QAM | 50 | 50 | 21.31 | 21.40 | 21.47 | 21.37 | 21.52 | 22 | 2 |
| 20 | 16QAM | 100 | 0 | 21.32 | 21.38 | 21.46 | 21.37 | 21.43 | | |
| 20 | 64QAM | 1 | 0 | 21.18 | 21.02 | 20.93 | 21.01 | 21.07 | | |
| 20 | 64QAM | 1 | 49 | 21.18 | 20.99 | 21.14 | 21.00 | 21.16 | 22 | 2 |
| 20 | 64QAM | 1 | 99 | 21.11 | 20.99 | 21.16 | 21.01 | 21.25 | | |
| 20 | 64QAM | 50 | 0 | 20.22 | 20.31 | 20.39 | 20.35 | 20.45 | | |
| 20 | 64QAM | 50 | 24 | 20.35 | 20.40 | 20.49 | 20.38 | 20.45 | 21 | 3 |
| 20 | 64QAM | 50 | 50 | 20.33 | 20.39 | 20.47 | 20.37 | 20.51 | | |
| 20 | 64QAM | 100 | 0 | 20.35 | 20.38 | 20.40 | 20.36 | 20.46 | | |
| Channel | | | | 39725 | 40173 | 40620 | 41068 | 41515 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2503.5 | 2548.3 | 2593 | 2637.8 | 2682.5 | | |
| 15 | QPSK | 1 | 0 | 23.13 | 23.21 | 23.25 | 22.52 | 22.82 | 24 | 0 |
| 15 | QPSK | 1 | 37 | 23.12 | 23.20 | 23.24 | 22.63 | 22.85 | | |
| 15 | QPSK | 1 | 74 | 23.11 | 23.22 | 23.26 | 22.79 | 22.98 | | |
| 15 | QPSK | 36 | 0 | 22.27 | 22.27 | 22.35 | 22.23 | 22.42 | 23 | 1 |
| 15 | QPSK | 36 | 20 | 22.29 | 22.36 | 22.43 | 22.30 | 22.47 | | |
| 15 | QPSK | 36 | 39 | 22.26 | 22.34 | 22.42 | 22.32 | 22.49 | | |
| 15 | QPSK | 75 | 0 | 22.32 | 22.34 | 22.44 | 22.33 | 22.43 | 23 | 1 |
| 15 | 16QAM | 1 | 0 | 22.75 | 22.81 | 22.86 | 22.81 | 22.94 | | |
| 15 | 16QAM | 1 | 37 | 22.67 | 22.71 | 22.80 | 22.74 | 22.84 | | |
| 15 | 16QAM | 1 | 74 | 22.83 | 22.88 | 22.98 | 22.87 | 22.78 | 22 | 2 |
| 15 | 16QAM | 36 | 0 | 21.74 | 21.73 | 21.82 | 21.73 | 21.89 | | |
| 15 | 16QAM | 36 | 20 | 21.78 | 21.81 | 21.88 | 21.77 | 21.96 | | |
| 15 | 16QAM | 36 | 39 | 21.75 | 21.82 | 21.89 | 21.80 | 21.96 | 22 | 2 |
| 15 | 16QAM | 75 | 0 | 21.85 | 21.88 | 21.95 | 21.85 | 21.94 | | |
| 15 | 64QAM | 1 | 0 | 21.25 | 21.46 | 21.30 | 21.46 | 21.55 | | |
| 15 | 64QAM | 1 | 37 | 21.56 | 21.05 | 21.12 | 21.50 | 21.61 | 22 | 2 |
| 15 | 64QAM | 1 | 74 | 21.64 | 21.10 | 21.29 | 21.59 | 21.44 | | |
| 15 | 64QAM | 36 | 0 | 20.81 | 20.50 | 20.53 | 20.77 | 20.93 | | |
| 15 | 64QAM | 36 | 20 | 20.83 | 20.56 | 20.55 | 20.83 | 20.96 | 21 | 3 |
| 15 | 64QAM | 36 | 39 | 20.79 | 20.57 | 20.57 | 20.86 | 20.68 | | |
| 15 | 64QAM | 75 | 0 | 20.84 | 20.56 | 20.43 | 20.86 | 20.91 | | |
| Channel | | | | 39700 | 40160 | 40620 | 41080 | 41540 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2501 | 2547 | 2593 | 2639 | 2685 | | |
| 10 | QPSK | 1 | 0 | 22.97 | 22.96 | 23.10 | 22.96 | 23.17 | 24 | 0 |
| 10 | QPSK | 1 | 25 | 22.98 | 22.99 | 23.05 | 23.00 | 23.21 | | |
| 10 | QPSK | 1 | 49 | 22.99 | 22.98 | 23.02 | 22.98 | 23.19 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | | | |
|-----------------|-------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 10 | QPSK | 25 | 0 | 22.56 | 22.66 | 22.86 | 22.54 | 22.76 | 23 | 1 |
| 10 | QPSK | 25 | 12 | 22.58 | 22.65 | 22.79 | 22.69 | 22.77 | | |
| 10 | QPSK | 25 | 25 | 22.57 | 22.62 | 22.76 | 22.66 | 22.85 | | |
| 10 | QPSK | 50 | 0 | 22.57 | 22.67 | 22.71 | 22.64 | 22.76 | | |
| 10 | 16QAM | 1 | 0 | 22.58 | 22.69 | 22.68 | 22.68 | 22.85 | 23 | 1 |
| 10 | 16QAM | 1 | 25 | 22.61 | 22.63 | 22.65 | 22.67 | 22.84 | | |
| 10 | 16QAM | 1 | 49 | 22.58 | 22.64 | 22.67 | 22.68 | 22.84 | | |
| 10 | 16QAM | 25 | 0 | 21.92 | 21.63 | 21.63 | 21.54 | 21.74 | 22 | 2 |
| 10 | 16QAM | 25 | 12 | 21.88 | 21.70 | 21.73 | 21.69 | 21.76 | | |
| 10 | 16QAM | 25 | 25 | 21.77 | 21.62 | 21.69 | 21.62 | 21.81 | | |
| 10 | 16QAM | 50 | 0 | 21.56 | 21.70 | 21.65 | 21.67 | 21.80 | | |
| 10 | 64QAM | 1 | 0 | 21.30 | 21.33 | 20.74 | 21.47 | 21.46 | 22 | 2 |
| 10 | 64QAM | 1 | 25 | 21.54 | 21.10 | 20.62 | 21.36 | 21.20 | | |
| 10 | 64QAM | 1 | 49 | 21.47 | 20.96 | 20.56 | 21.24 | 20.99 | | |
| 10 | 64QAM | 25 | 0 | 20.65 | 20.58 | 20.50 | 20.62 | 20.75 | 21 | 3 |
| 10 | 64QAM | 25 | 12 | 20.67 | 20.53 | 20.54 | 20.78 | 20.70 | | |
| 10 | 64QAM | 25 | 25 | 20.63 | 20.53 | 20.52 | 20.67 | 20.45 | | |
| 10 | 64QAM | 50 | 0 | 20.66 | 20.46 | 20.41 | 20.69 | 20.49 | | |
| Channel | | | | 39675 | 40148 | 40620 | 41093 | 41565 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2498.5 | 2545.8 | 2593 | 2640.30 | 2687.5 | | |
| 5 | QPSK | 1 | 0 | 22.95 | 23.02 | 22.96 | 23.05 | 22.95 | 24 | 0 |
| 5 | QPSK | 1 | 12 | 22.94 | 22.95 | 23.01 | 23.06 | 22.96 | | |
| 5 | QPSK | 1 | 24 | 22.98 | 22.97 | 22.96 | 23.11 | 23.00 | | |
| 5 | QPSK | 12 | 0 | 22.56 | 22.56 | 22.62 | 22.64 | 22.61 | 23 | 1 |
| 5 | QPSK | 12 | 7 | 22.60 | 22.60 | 22.66 | 22.74 | 22.65 | | |
| 5 | QPSK | 12 | 13 | 22.58 | 22.58 | 22.63 | 22.71 | 22.63 | | |
| 5 | QPSK | 25 | 0 | 22.55 | 22.56 | 22.61 | 22.71 | 22.59 | | |
| 5 | 16QAM | 1 | 0 | 22.63 | 22.65 | 22.62 | 22.70 | 22.58 | 23 | 1 |
| 5 | 16QAM | 1 | 12 | 22.57 | 22.59 | 22.69 | 22.80 | 22.73 | | |
| 5 | 16QAM | 1 | 24 | 22.69 | 22.71 | 22.71 | 22.79 | 22.71 | | |
| 5 | 16QAM | 12 | 0 | 21.55 | 21.59 | 21.61 | 21.63 | 21.58 | 22 | 2 |
| 5 | 16QAM | 12 | 7 | 21.58 | 21.60 | 21.64 | 21.72 | 21.66 | | |
| 5 | 16QAM | 12 | 13 | 21.56 | 21.56 | 21.61 | 21.67 | 21.62 | | |
| 5 | 16QAM | 25 | 0 | 21.59 | 21.60 | 21.66 | 21.73 | 21.66 | | |
| 5 | 64QAM | 1 | 0 | 21.37 | 21.43 | 21.28 | 21.23 | 21.33 | 22 | 2 |
| 5 | 64QAM | 1 | 12 | 21.41 | 21.43 | 21.21 | 21.31 | 21.44 | | |
| 5 | 64QAM | 1 | 24 | 21.48 | 21.48 | 21.18 | 21.26 | 21.41 | | |
| 5 | 64QAM | 12 | 0 | 20.63 | 20.64 | 20.58 | 20.62 | 20.67 | 21 | 3 |
| 5 | 64QAM | 12 | 7 | 20.62 | 20.64 | 20.61 | 20.62 | 20.68 | | |
| 5 | 64QAM | 12 | 13 | 20.62 | 20.64 | 20.59 | 20.56 | 20.68 | | |
| 5 | 64QAM | 25 | 0 | 20.61 | 20.63 | 20.54 | 20.55 | 20.67 | | |



<Reduced Power on Hotspot / Body-worn Mode>

<LTE Band 48>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|----------|
| Channel | | | | 55340 | 55830 | 56150 | 56640 | | |
| Frequency (MHz) | | | | 3560 | 3609 | 3641 | 3690 | | |
| 20 | QPSK | 1 | 0 | 17.86 | 17.87 | 17.63 | 17.70 | 19 | 0 |
| 20 | QPSK | 1 | 49 | 17.77 | 17.71 | 17.43 | 17.46 | | |
| 20 | QPSK | 1 | 99 | 17.72 | 17.56 | 17.33 | 17.39 | | |
| 20 | QPSK | 50 | 0 | 17.74 | 17.76 | 17.70 | 17.64 | 19 | 0 |
| 20 | QPSK | 50 | 24 | 17.72 | 17.59 | 17.68 | 17.63 | | |
| 20 | QPSK | 50 | 50 | 17.69 | 17.46 | 17.71 | 17.54 | | |
| 20 | QPSK | 100 | 0 | 17.70 | 17.72 | 17.56 | 17.54 | 19 | 0 |
| 20 | 16QAM | 1 | 0 | 17.77 | 17.69 | 17.61 | 17.65 | | |
| 20 | 16QAM | 1 | 49 | 17.64 | 17.52 | 17.53 | 17.52 | | |
| 20 | 16QAM | 1 | 99 | 17.58 | 17.43 | 17.40 | 17.44 | 19 | 0 |
| 20 | 16QAM | 50 | 0 | 17.66 | 17.78 | 17.63 | 17.67 | | |
| 20 | 16QAM | 50 | 24 | 17.65 | 17.74 | 17.58 | 17.68 | | |
| 20 | 16QAM | 50 | 50 | 17.75 | 17.59 | 17.60 | 17.62 | 19 | 0 |
| 20 | 16QAM | 100 | 0 | 17.78 | 17.74 | 17.54 | 17.59 | | |
| 20 | 64QAM | 1 | 0 | 17.65 | 17.55 | 17.35 | 17.39 | | |
| 20 | 64QAM | 1 | 49 | 17.53 | 17.36 | 17.29 | 17.30 | 19 | 0 |
| 20 | 64QAM | 1 | 99 | 17.38 | 17.23 | 17.18 | 17.22 | | |
| 20 | 64QAM | 50 | 0 | 17.76 | 17.80 | 17.64 | 17.66 | | |
| 20 | 64QAM | 50 | 24 | 17.83 | 17.75 | 17.58 | 17.69 | 19 | 0 |
| 20 | 64QAM | 50 | 50 | 17.76 | 17.60 | 17.60 | 17.62 | | |
| 20 | 64QAM | 100 | 0 | 17.83 | 17.75 | 17.55 | 17.59 | | |
| Channel | | | | 55315 | 55820 | 56160 | 56665 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3557.5 | 3608 | 3642 | 3692.5 | | |
| 15 | QPSK | 1 | 0 | 17.70 | 17.66 | 17.49 | 17.40 | 19 | 0 |
| 15 | QPSK | 1 | 37 | 17.67 | 17.51 | 17.37 | 17.37 | | |
| 15 | QPSK | 1 | 74 | 17.63 | 17.44 | 17.27 | 17.29 | | |
| 15 | QPSK | 36 | 0 | 17.74 | 17.68 | 17.58 | 17.55 | 19 | 0 |
| 15 | QPSK | 36 | 20 | 17.57 | 17.39 | 17.56 | 17.56 | | |
| 15 | QPSK | 36 | 39 | 17.67 | 17.30 | 17.56 | 17.42 | | |
| 15 | QPSK | 75 | 0 | 17.52 | 17.53 | 17.53 | 17.37 | 19 | 0 |
| 15 | 16QAM | 1 | 0 | 17.59 | 17.60 | 17.46 | 17.50 | | |
| 15 | 16QAM | 1 | 37 | 17.57 | 17.32 | 17.34 | 17.51 | | |
| 15 | 16QAM | 1 | 74 | 17.56 | 17.24 | 17.20 | 17.25 | 19 | 0 |
| 15 | 16QAM | 36 | 0 | 17.47 | 17.69 | 17.56 | 17.47 | | |
| 15 | 16QAM | 36 | 20 | 17.53 | 17.60 | 17.38 | 17.54 | | |
| 15 | 16QAM | 36 | 39 | 17.58 | 17.55 | 17.60 | 17.62 | 19 | 0 |
| 15 | 16QAM | 75 | 0 | 17.68 | 17.71 | 17.36 | 17.40 | | |
| 15 | 64QAM | 1 | 0 | 17.52 | 17.40 | 17.23 | 17.36 | | |
| 15 | 64QAM | 1 | 37 | 17.36 | 17.34 | 17.28 | 17.28 | 19 | 0 |
| 15 | 64QAM | 1 | 74 | 17.28 | 17.05 | 17.13 | 17.05 | | |
| 15 | 64QAM | 36 | 0 | 17.57 | 17.75 | 17.61 | 17.55 | | |
| 15 | 64QAM | 36 | 20 | 17.76 | 17.68 | 17.56 | 17.65 | 19 | 0 |
| 15 | 64QAM | 36 | 39 | 17.67 | 17.58 | 17.55 | 17.60 | | |
| 15 | 64QAM | 75 | 0 | 17.73 | 17.63 | 17.37 | 17.39 | | |
| Channel | | | | 55290 | 55815 | 56165 | 56690 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3555 | 3607.5 | 3642.5 | 3695 | | |
| 10 | QPSK | 1 | 0 | 17.59 | 17.72 | 17.50 | 17.44 | 19 | 0 |
| 10 | QPSK | 1 | 25 | 17.66 | 17.67 | 17.38 | 17.34 | | |
| 10 | QPSK | 1 | 49 | 17.70 | 17.52 | 17.25 | 17.32 | | |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | | |
|-----------------|-------|----|----|--------|-------|-------|--------|------------------------|-------------|
| 10 | QPSK | 25 | 0 | 17.60 | 17.72 | 17.59 | 17.50 | 19 | 0 |
| 10 | QPSK | 25 | 12 | 17.64 | 17.44 | 17.60 | 17.62 | | |
| 10 | QPSK | 25 | 25 | 17.68 | 17.32 | 17.58 | 17.35 | | |
| 10 | QPSK | 50 | 0 | 17.69 | 17.71 | 17.49 | 17.49 | | |
| 10 | 16QAM | 1 | 0 | 17.69 | 17.65 | 17.47 | 17.60 | 19 | 0 |
| 10 | 16QAM | 1 | 25 | 17.57 | 17.46 | 17.38 | 17.33 | | |
| 10 | 16QAM | 1 | 49 | 17.41 | 17.28 | 17.21 | 17.25 | | |
| 10 | 16QAM | 25 | 0 | 17.50 | 17.70 | 17.48 | 17.64 | 19 | 0 |
| 10 | 16QAM | 25 | 12 | 17.62 | 17.72 | 17.50 | 17.56 | | |
| 10 | 16QAM | 25 | 25 | 17.71 | 17.41 | 17.51 | 17.49 | | |
| 10 | 16QAM | 50 | 0 | 17.65 | 17.67 | 17.35 | 17.49 | | |
| 10 | 64QAM | 1 | 0 | 17.52 | 17.49 | 17.31 | 17.33 | 19 | 0 |
| 10 | 64QAM | 1 | 25 | 17.46 | 17.36 | 17.20 | 17.11 | | |
| 10 | 64QAM | 1 | 49 | 17.30 | 17.16 | 17.15 | 17.14 | | |
| 10 | 64QAM | 25 | 0 | 17.56 | 17.65 | 17.48 | 17.55 | 19 | 0 |
| 10 | 64QAM | 25 | 12 | 17.82 | 17.62 | 17.54 | 17.58 | | |
| 10 | 64QAM | 25 | 25 | 17.71 | 17.60 | 17.52 | 17.60 | | |
| 10 | 64QAM | 50 | 0 | 17.82 | 17.65 | 17.54 | 17.51 | | |
| Channel | | | | 55265 | 55810 | 56170 | 56715 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 3552.5 | 3607 | 3643 | 3697.5 | | |
| 5 | QPSK | 1 | 0 | 17.72 | 17.65 | 17.31 | 17.42 | 19 | 0 |
| 5 | QPSK | 1 | 12 | 17.57 | 17.68 | 17.33 | 17.41 | | |
| 5 | QPSK | 1 | 24 | 17.69 | 17.44 | 17.28 | 17.32 | | |
| 5 | QPSK | 12 | 0 | 17.67 | 17.71 | 17.66 | 17.62 | 19 | 0 |
| 5 | QPSK | 12 | 7 | 17.52 | 17.58 | 17.65 | 17.59 | | |
| 5 | QPSK | 12 | 13 | 17.68 | 17.44 | 17.70 | 17.35 | | |
| 5 | QPSK | 25 | 0 | 17.67 | 17.72 | 17.45 | 17.47 | | |
| 5 | 16QAM | 1 | 0 | 17.64 | 17.58 | 17.54 | 17.57 | 19 | 0 |
| 5 | 16QAM | 1 | 12 | 17.54 | 17.45 | 17.48 | 17.50 | | |
| 5 | 16QAM | 1 | 24 | 17.58 | 17.24 | 17.26 | 17.32 | | |
| 5 | 16QAM | 12 | 0 | 17.58 | 17.61 | 17.44 | 17.59 | 19 | 0 |
| 5 | 16QAM | 12 | 7 | 17.63 | 17.66 | 17.47 | 17.54 | | |
| 5 | 16QAM | 12 | 13 | 17.56 | 17.48 | 17.48 | 17.57 | | |
| 5 | 16QAM | 25 | 0 | 17.68 | 17.67 | 17.49 | 17.55 | | |
| 5 | 64QAM | 1 | 0 | 17.53 | 17.54 | 17.27 | 17.37 | 19 | 0 |
| 5 | 64QAM | 1 | 12 | 17.48 | 17.20 | 17.25 | 17.10 | | |
| 5 | 64QAM | 1 | 24 | 17.29 | 17.17 | 17.17 | 17.02 | | |
| 5 | 64QAM | 12 | 0 | 17.65 | 17.63 | 17.63 | 17.53 | 19 | 0 |
| 5 | 64QAM | 12 | 7 | 17.78 | 17.64 | 17.46 | 17.51 | | |
| 5 | 64QAM | 12 | 13 | 17.65 | 17.54 | 17.54 | 17.50 | | |
| 5 | 64QAM | 25 | 0 | 17.78 | 17.72 | 17.55 | 17.59 | | |



<When EN-DC is active>

<LTE Band 41>

| Channel | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) | | | |
|-----------------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|----------|-------|------|-----|
| Channel | 39750 | 40185 | 40620 | 41055 | 41490 | | | | | |
| Frequency (MHz) | 2506 | 2549.5 | 2593 | 2636.5 | 2680 | | | | | |
| 20 | QPSK | 1 | 0 | 21.27 | 21.27 | 21.43 | 21.26 | 21.45 | 21.5 | 0 |
| 20 | QPSK | 1 | 49 | 21.31 | 21.33 | 21.30 | 21.29 | 21.32 | | |
| 20 | QPSK | 1 | 99 | 21.31 | 21.33 | 21.42 | 21.32 | 21.36 | | |
| 20 | QPSK | 50 | 0 | 21.11 | 21.22 | 21.33 | 21.22 | 21.33 | 21.5 | 0 |
| 20 | QPSK | 50 | 24 | 21.20 | 21.24 | 21.40 | 21.22 | 21.38 | | |
| 20 | QPSK | 50 | 50 | 21.29 | 21.32 | 21.40 | 21.24 | 21.38 | | |
| 20 | QPSK | 100 | 0 | 21.21 | 21.26 | 21.39 | 21.27 | 21.38 | 21.5 | 0 |
| 20 | 16QAM | 1 | 0 | 21.14 | 21.15 | 21.35 | 21.28 | 21.36 | | |
| 20 | 16QAM | 1 | 49 | 21.15 | 21.19 | 21.21 | 21.12 | 21.30 | | |
| 20 | 16QAM | 1 | 99 | 21.27 | 21.24 | 21.40 | 21.24 | 21.37 | 21.5 | 0 |
| 20 | 16QAM | 50 | 0 | 21.16 | 21.31 | 21.35 | 21.36 | 21.40 | | |
| 20 | 16QAM | 50 | 24 | 21.31 | 21.39 | 21.41 | 21.37 | 21.38 | | |
| 20 | 16QAM | 50 | 50 | 21.31 | 21.35 | 21.44 | 21.37 | 21.38 | 21.5 | 0 |
| 20 | 16QAM | 100 | 0 | 21.24 | 21.36 | 21.41 | 21.32 | 21.42 | | |
| 20 | 64QAM | 1 | 0 | 21.10 | 21.01 | 20.89 | 21.01 | 21.06 | | |
| 20 | 64QAM | 1 | 49 | 21.12 | 20.93 | 21.06 | 20.92 | 21.07 | 21.5 | 0 |
| 20 | 64QAM | 1 | 99 | 21.04 | 20.94 | 21.15 | 20.98 | 21.18 | | |
| 20 | 64QAM | 50 | 0 | 20.20 | 20.23 | 20.31 | 20.29 | 20.36 | | |
| 20 | 64QAM | 50 | 24 | 20.31 | 20.31 | 20.41 | 20.33 | 20.41 | 21 | 0.5 |
| 20 | 64QAM | 50 | 50 | 20.33 | 20.39 | 20.38 | 20.31 | 20.48 | | |
| 20 | 64QAM | 100 | 0 | 20.34 | 20.31 | 20.38 | 20.30 | 20.39 | | |
| Channel | 39725 | 40173 | 40620 | 41068 | 41515 | Tune-up limit (dBm) | MPR (dB) | | | |
| Frequency (MHz) | 2503.5 | 2548.3 | 2593 | 2637.8 | 2682.5 | | | | | |
| 15 | QPSK | 1 | 0 | 21.18 | 21.27 | 21.37 | 21.22 | 21.36 | 21.5 | 0 |
| 15 | QPSK | 1 | 37 | 21.31 | 21.33 | 21.24 | 21.23 | 21.27 | | |
| 15 | QPSK | 1 | 74 | 21.26 | 21.26 | 21.33 | 21.25 | 21.30 | | |
| 15 | QPSK | 36 | 0 | 21.05 | 21.19 | 21.28 | 21.17 | 21.29 | 21.5 | 0 |
| 15 | QPSK | 36 | 20 | 21.15 | 21.22 | 21.40 | 21.15 | 21.32 | | |
| 15 | QPSK | 36 | 39 | 21.26 | 21.23 | 21.32 | 21.16 | 21.28 | | |
| 15 | QPSK | 75 | 0 | 21.21 | 21.25 | 21.39 | 21.22 | 21.36 | 21.5 | 0 |
| 15 | 16QAM | 1 | 0 | 21.08 | 21.14 | 21.29 | 21.28 | 21.36 | | |
| 15 | 16QAM | 1 | 37 | 21.10 | 21.17 | 21.16 | 21.12 | 21.24 | | |
| 15 | 16QAM | 1 | 74 | 21.24 | 21.19 | 21.34 | 21.18 | 21.36 | 21.5 | 0 |
| 15 | 16QAM | 36 | 0 | 21.11 | 21.27 | 21.29 | 21.31 | 21.35 | | |
| 15 | 16QAM | 36 | 20 | 21.27 | 21.32 | 21.32 | 21.36 | 21.35 | | |
| 15 | 16QAM | 36 | 39 | 21.24 | 21.30 | 21.41 | 21.36 | 21.32 | 21.5 | 0 |
| 15 | 16QAM | 75 | 0 | 21.22 | 21.32 | 21.40 | 21.28 | 21.42 | | |
| 15 | 64QAM | 1 | 0 | 21.02 | 20.91 | 20.82 | 20.96 | 21.01 | | |
| 15 | 64QAM | 1 | 37 | 21.08 | 20.89 | 20.96 | 20.83 | 21.04 | 21.5 | 0 |
| 15 | 64QAM | 1 | 74 | 20.99 | 20.92 | 21.06 | 20.94 | 21.17 | | |
| 15 | 64QAM | 36 | 0 | 20.12 | 20.23 | 20.30 | 20.23 | 20.28 | | |
| 15 | 64QAM | 36 | 20 | 20.30 | 20.24 | 20.41 | 20.27 | 20.36 | 21 | 0.5 |
| 15 | 64QAM | 36 | 39 | 20.28 | 20.30 | 20.38 | 20.28 | 20.48 | | |
| 15 | 64QAM | 75 | 0 | 20.34 | 20.24 | 20.33 | 20.28 | 20.36 | | |
| Channel | 39700 | 40160 | 40620 | 41080 | 41540 | Tune-up limit (dBm) | MPR (dB) | | | |
| Frequency (MHz) | 2501 | 2547 | 2593 | 2639 | 2685 | | | | | |
| 10 | QPSK | 1 | 0 | 21.21 | 21.21 | 21.34 | 21.21 | 21.41 | 21.5 | 0 |



FCC SAR TEST REPORT

Report No. : FA9D0635-01A

| | | | | | | | | | | |
|-----------------|-------|----|----|--------|--------|-------|---------|--------|---------------------|----------|
| 10 | QPSK | 1 | 25 | 21.25 | 21.31 | 21.22 | 21.21 | 21.24 | | |
| 10 | QPSK | 1 | 49 | 21.21 | 21.23 | 21.36 | 21.29 | 21.28 | | |
| 10 | QPSK | 25 | 0 | 21.03 | 21.21 | 21.27 | 21.17 | 21.27 | 21.5 | 0 |
| 10 | QPSK | 25 | 12 | 21.11 | 21.24 | 21.40 | 21.20 | 21.31 | | |
| 10 | QPSK | 25 | 25 | 21.25 | 21.29 | 21.37 | 21.16 | 21.35 | | |
| 10 | QPSK | 50 | 0 | 21.12 | 21.17 | 21.39 | 21.20 | 21.28 | | |
| 10 | 16QAM | 1 | 0 | 21.13 | 21.14 | 21.27 | 21.18 | 21.35 | | |
| 10 | 16QAM | 1 | 25 | 21.05 | 21.11 | 21.17 | 21.06 | 21.20 | 21.5 | 0 |
| 10 | 16QAM | 1 | 49 | 21.17 | 21.23 | 21.37 | 21.21 | 21.32 | | |
| 10 | 16QAM | 25 | 0 | 21.11 | 21.23 | 21.35 | 21.27 | 21.32 | | |
| 10 | 16QAM | 25 | 12 | 21.23 | 21.38 | 21.39 | 21.27 | 21.28 | 21.5 | 0 |
| 10 | 16QAM | 25 | 25 | 21.28 | 21.26 | 21.34 | 21.28 | 21.38 | | |
| 10 | 16QAM | 50 | 0 | 21.17 | 21.34 | 21.35 | 21.30 | 21.34 | | |
| 10 | 64QAM | 1 | 0 | 21.10 | 20.99 | 20.87 | 20.97 | 21.02 | 21.5 | 0 |
| 10 | 64QAM | 1 | 25 | 21.02 | 20.93 | 20.97 | 20.85 | 21.02 | | |
| 10 | 64QAM | 1 | 49 | 20.96 | 20.86 | 21.06 | 20.94 | 21.13 | | |
| 10 | 64QAM | 25 | 0 | 20.12 | 20.15 | 20.26 | 20.25 | 20.28 | 21 | 0.5 |
| 10 | 64QAM | 25 | 12 | 20.24 | 20.24 | 20.31 | 20.30 | 20.38 | | |
| 10 | 64QAM | 25 | 25 | 20.25 | 20.37 | 20.29 | 20.21 | 20.43 | | |
| 10 | 64QAM | 50 | 0 | 20.31 | 20.29 | 20.30 | 20.27 | 20.37 | | |
| Channel | | | | 39675 | 40148 | 40620 | 41093 | 41565 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) | | | | 2498.5 | 2545.8 | 2593 | 2640.30 | 2687.5 | | |
| 5 | QPSK | 1 | 0 | 21.24 | 21.21 | 21.40 | 21.18 | 21.35 | 21.5 | 0 |
| 5 | QPSK | 1 | 12 | 21.30 | 21.33 | 21.21 | 21.21 | 21.26 | | |
| 5 | QPSK | 1 | 24 | 21.30 | 21.29 | 21.41 | 21.22 | 21.32 | | |
| 5 | QPSK | 12 | 0 | 21.04 | 21.16 | 21.27 | 21.16 | 21.28 | 21.5 | 0 |
| 5 | QPSK | 12 | 7 | 21.19 | 21.21 | 21.39 | 21.22 | 21.34 | | |
| 5 | QPSK | 12 | 13 | 21.22 | 21.28 | 21.32 | 21.20 | 21.33 | | |
| 5 | QPSK | 25 | 0 | 21.13 | 21.21 | 21.31 | 21.26 | 21.29 | | |
| 5 | 16QAM | 1 | 0 | 21.06 | 21.07 | 21.32 | 21.19 | 21.33 | 21.5 | 0 |
| 5 | 16QAM | 1 | 12 | 21.14 | 21.16 | 21.14 | 21.06 | 21.22 | | |
| 5 | 16QAM | 1 | 24 | 21.18 | 21.22 | 21.39 | 21.24 | 21.33 | | |
| 5 | 16QAM | 12 | 0 | 21.16 | 21.21 | 21.32 | 21.36 | 21.34 | 21.5 | 0 |
| 5 | 16QAM | 12 | 7 | 21.31 | 21.37 | 21.33 | 21.32 | 21.37 | | |
| 5 | 16QAM | 12 | 13 | 21.25 | 21.33 | 21.38 | 21.35 | 21.34 | | |
| 5 | 16QAM | 25 | 0 | 21.16 | 21.30 | 21.37 | 21.26 | 21.42 | | |
| 5 | 64QAM | 1 | 0 | 21.03 | 21.00 | 20.81 | 20.92 | 21.05 | 21.5 | 0 |
| 5 | 64QAM | 1 | 12 | 21.11 | 20.83 | 21.01 | 20.89 | 20.98 | | |
| 5 | 64QAM | 1 | 24 | 20.95 | 20.85 | 21.15 | 20.94 | 21.10 | | |
| 5 | 64QAM | 12 | 0 | 20.18 | 20.20 | 20.24 | 20.24 | 20.31 | 21 | 0.5 |
| 5 | 64QAM | 12 | 7 | 20.22 | 20.24 | 20.34 | 20.29 | 20.40 | | |
| 5 | 64QAM | 12 | 13 | 20.24 | 20.32 | 20.29 | 20.31 | 20.40 | | |
| 5 | 64QAM | 25 | 0 | 20.26 | 20.31 | 20.34 | 20.30 | 20.34 | | |



13. DL carrier aggregation power verification

<LTE Carrier Aggregation combinations>

General Note:

1. This device supports Carrier Aggregation on downlink only for inter and intra band, Uplink CA is not supported. For the device supports combination bands and configurations are according to 3GPP.
2. In applying the existing power measurement procedure of KDB 941225 D05A for DL CA SAR test exclusion, only the subset with the largest number of combinations of the frequency band and CCs in each row need consideration, and that configurations require power measurement should be highlighted in the below table.

| 2CC Downlink Carrier Aggregation | | | 3CC Downlink Carrier Aggregation | | | 4CC Downlink Carrier Aggregation | | |
|----------------------------------|-------------|---------------------------------|----------------------------------|-------------|---------------------------------|----------------------------------|-----------------|---------------------------------|
| Number | Combination | Covered by Measurement Superset | Number | Combination | Covered by Measurement Superset | Number | Combination | Covered by Measurement Superset |
| 1 | 2A-2A | 47 | 47 | 2A-2A-5A | 103 | 103 | 2A-2A-5A-66A | 131 |
| 2 | 2A-4A | 51 | 48 | 2A-2A-7A | 104 | 104 | 2A-2A-7A-12A | 132 |
| 3 | 2A-5A | 47 | 49 | 2A-2A-12A | 104 | 105 | 2A-2A-7A-66A | 132 |
| 4 | 2A-7A | 48 | 50 | 2A-2A-66A | 105 | 106 | 2A-4A-5A-29A | |
| 5 | 2A-12A | 49 | 51 | 2A-4A-4A | | 107 | 2A-4A-7C | |
| 6 | 2A-13A | 67 | 52 | 2A-4A-5A | 106 | 108 | 2A-4A-7A-7A | |
| 7 | 2A-29A | 55 | 53 | 2A-4A-7A | 108 | 109 | 2A-4A-7A-12A | |
| 8 | 2A-30A | 56 | 54 | 2A-4A-12A | 110 | 110 | 2A-4A-12A-30A | |
| 9 | 2A-46A | 72 | 55 | 2A-4A-29A | 111 | 111 | 2A-4A-29A-30A | |
| 10 | 2A-66A | 50 | 56 | 2A-4A-30A | 111 | 112 | 2A-5A-30A-66A | 133 |
| 11 | 2A-71A | | 57 | 2A-5A-29A | 106 | 113 | 2A-5A-66A-66A | 133 |
| 12 | 4A-4A | 74 | 58 | 2A-5A-30A | 112 | 114 | 2A-7A-7A-66A | 134 |
| 13 | 4A-5A | 52 | 59 | 2A-5A-66A | 113 | 115 | 2A-7A-12A-66A | 132 |
| 14 | 4A-7A | 53 | 60 | 2A-7C | 107 | 116 | 2A-7A-66A-66A | 134 |
| 15 | 4A-12A | 54 | 61 | 2A-7A-7A | 114 | 117 | 2A-12A-30A-66A | 135 |
| 16 | 4A-29A | 55 | 62 | 2A-7A-12A | 115 | 118 | 2A-12A-66A-66A | 135 |
| 17 | 4A-30A | 56 | 63 | 2A-7A-66A | 116 | 119 | 2A-30A-66A-66A | 135 |
| 18 | 4A-46A | 83 | 64 | 2A-12B | | 120 | 2A-46D | 136 |
| 19 | 4A-71A | | 65 | 2A-12A-30A | 117 | 121 | 2A-46C-66A | 137 |
| 20 | 5A-7A | 85 | 66 | 2A-12A-66A | 118 | 122 | 4A-46D | 138 |
| 21 | 5A-30A | 86 | 67 | 2A-13A-66A | | 123 | 4A-46A-46C | 138 |
| 22 | 5A-38A | | 68 | 2A-29A-30A | 111 | 124 | 5A-30A-66A-66A | 133 |
| 23 | 5A-41A | | 69 | 2A-29A-66A | | 125 | 7A-7A-46C | 139 |
| 24 | 5A-66A | 87 | 70 | 2A-30A-66A | 119 | 126 | 7C-66A-66A | |
| 25 | 7B | | 71 | 2A-46C | 121 | 127 | 7A-46D | 139 |
| 26 | 7C | 60 | 72 | 2A-46A-46A | 137 | 128 | 12A-30A-66A-66A | 135 |
| 27 | 7A-7A | 61 | 73 | 2A-66A-66A | 113 | 129 | 46D-66A | 141 |
| 28 | 7A-12A | 62 | 74 | 4A-4A-7A | | 130 | 46C-66A-66A | 142 |
| 29 | 7A-46A | 88 | 75 | 4A-4A-12A | | | | |
| 30 | 7A-66A | 92 | 76 | 4A-7C | 107 | | | |
| 31 | 12B | 64 | 77 | 4A-7A-7A | 108 | | | |
| 32 | 12A-30A | 93 | 78 | 4A-7A-12A | 109 | | | |
| 33 | 12A-66A | 94 | 79 | 4A-12B | | | | |
| 34 | 13A-46A | 95 | 80 | 4A-12A-30A | 110 | | | |
| 35 | 13A-66A | 96 | 81 | 4A-29A-30A | 111 | | | |
| 36 | 29A-30A | 68 | 82 | 4A-46C | 122 | | | |
| 37 | 29A-66A | 69 | 83 | 4A-46A-46A | 123 | | | |
| 38 | 30A-66A | 70 | 84 | 5A-7C | | | | |
| 39 | 38C | | 85 | 5A-7A-7A | | | | |
| 40 | 41C | 97 | 86 | 5A-30A-66A | 112 | | | |
| 41 | 41A-41A | | 87 | 5A-66A-66A | 113 | | | |
| 42 | 46A-66A | 102 | 88 | 7A-7A-46A | 125 | | | |
| 43 | 66B | 44 | 89 | 7C-66A | 126 | | | |



| | | | | | | | | |
|----|---------|-----|-----|-------------|---------|--|--|--|
| 44 | 66C | | 90 | 7A-12A-66A | 115 | | | |
| 45 | 66A-66A | 102 | 91 | 7A-46C | 125 | | | |
| 46 | 66A-71A | | 92 | 7A-66A-66A | 116 | | | |
| | | | 93 | 12A-30A-66A | 128 | | | |
| | | | 94 | 12A-66A-66A | 128 | | | |
| | | | 95 | 13A-46A-66A | | | | |
| | | | 96 | 13A-66A-66A | | | | |
| | | | 97 | 26A-41C | | | | |
| | | | 98 | 30A-66A-66A | 119 | | | |
| | | | 99 | 41D | | | | |
| | | | 100 | 46C-66A | 130 | | | |
| | | | 101 | 46A-46A-66A | RX Only | | | |
| | | | 102 | 46A-66A-66A | 130 | | | |

| 5CC Downlink Carrier Aggregation | | | 6CC Downlink Carrier Aggregation | | |
|----------------------------------|--------------------|---------------------------------|----------------------------------|--------------|---------------------------------|
| Number | Combination | Covered by Measurement Superset | Number | Combination | Covered by Measurement Superset |
| 131 | 2A-2A-5A-66A-66A | | 143 | 2A-46E-66A | |
| 132 | 2A-2A-7A-12A-66A | | 144 | 7A-7A-46E | 145 |
| 133 | 2A-5A-30A-66A-66A | | 7CC Downlink Carrier Aggregation | | |
| 134 | 2A-7A-7A-66A-66A | | Number | Combination | Covered by Measurement Superset |
| 135 | 2A-12A-30A-66A-66A | | 145 | 2A-7A-7A-46E | |
| 136 | 2A-46E | 143 | | | |
| 137 | 2A-46D-66A | 143 | | | |
| 138 | 4A-46A-46D | | | | |
| 139 | 7A-7A-46D | 144 | | | |
| 140 | 7A-46E | 144 | | | |
| 141 | 46E-66A | 143 | | | |
| 142 | 46D-66A-66A | RX Only | | | |

<Power verification when LTE Carrier Aggregation Active>

General Note:

- 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 two 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 non-contiguous intra-band CA, the SCC selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band.
- vi. 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.

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

<Two Carrier power verification>

| Configure | CA Configuration (BCS) | PCC | | | | | | | SCC | | | | Power | | |
|------------|------------------------|----------|----------|----------------|------------|--------|--------|--------------|----------|----------|----------------|------------|------------------------|-----------------------|-------|
| | | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) | |
| Inter-Band | 2A-71A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 71 | 20 | 680.5 | 133297 | 23.07 | 22.98 | |
| | 4A-71A | 4 | 20 | 1732.5 | 20175 | QPSK | 1 | 0 | 71 | 20 | 680.5 | 133297 | 23.05 | 23.16 | |
| | 5A-38A | 5 | 10 | 844 | 20600 | QPSK | 1 | 0 | 38 | 20 | 2595 | 38000 | 23.14 | 23.04 | |
| | 5A-41A | 5 | 10 | 844 | 20600 | QPSK | 1 | 0 | 41 | 20 | 2593 | 40620 | 23.22 | 23.04 | |
| | 66A-71A | 66 | 20 | 1745 | 132322 | QPSK | 1 | 0 | 71 | 20 | 680.5 | 133297 | 23.22 | 23.18 | |
| Intra-Band | Contiguous | 7B | 7 | 15 | 2535 | 21100 | QPSK | 1 | 74 | 7 | 5 | 2664.3 | 3193 | 23.34 | 23.29 |
| | | 38C | 38 | 20 | 2610 | 38150 | QPSK | 1 | 99 | 38 | 20 | 2590.2 | 37952 | 23.30 | 23.31 |
| | | 66C | 66 | 20 | 1745 | 132322 | QPSK | 1 | 0 | 66 | 20 | 2674.8 | 3298 | 23.23 | 23.18 |

<Three Carrier power verification>

| Configure | CA Configuration (BCS) | PCC | | | | | | | | SCC | | | | SCC2 | | | | Power | |
|------------|------------------------|------------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|-------|
| | | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) | |
| Inter-Band | 2A-4A-4A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 4 | 20 | 2132.5 | 2175 | 4 | 20 | 2145 | 2300 | 23.06 | 22.98 | |
| | 2A-12B | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 12 | 10 | 737.5 | 5095 | 12 | 5 | 746.8 | 5188 | 22.97 | 22.98 | |
| | 2A-13A-66A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 13 | 10 | 751 | 5230 | 66 | 20 | 2155 | 66886 | 23.05 | 22.98 | |
| | 2A-29A-66A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 29 | 10 | 722.5 | 9715 | 66 | 20 | 2155 | 66886 | 23.11 | 22.98 | |
| | 4A-4A-7A | 4 | 20 | 1732.5 | 20175 | QPSK | 1 | 0 | 4 | 20 | 2145 | 2300 | 7 | 20 | 2655 | 3100 | 23.15 | 23.16 | |
| | 4A-4A-12A | 4 | 20 | 1732.5 | 20175 | QPSK | 1 | 0 | 4 | 20 | 2145 | 2300 | 12 | 10 | 737.5 | 5095 | 23.23 | 23.16 | |
| | 4A-12B | 4 | 20 | 1732.5 | 20175 | QPSK | 1 | 0 | 12 | 10 | 737.5 | 5095 | 12 | 5 | 746.8 | 5188 | 23.19 | 23.16 | |
| | 5A-7C | 5 | 10 | 844 | 20600 | QPSK | 1 | 0 | 7 | 20 | 2655 | 3100 | 7 | 20 | 2674.8 | 3298 | 23.01 | 23.04 | |
| | 5A-7A-7A | 5 | 10 | 844 | 20600 | QPSK | 1 | 0 | 7 | 20 | 2655 | 3100 | 7 | 20 | 2680 | 3350 | 23.12 | 23.04 | |
| | 13A-46A-66A | 13 | 10 | 782 | 23230 | QPSK | 1 | 0 | 46 | 20 | 5537.5 | 50665 | 66 | 20 | 2155 | 66886 | 22.94 | 22.88 | |
| | 13A-66A-66A | 13 | 10 | 782 | 23230 | QPSK | 1 | 0 | 66 | 20 | 2155 | 66886 | 66 | 20 | 2190 | 67236 | 22.83 | 22.88 | |
| | Intra-Band | Contiguous | 41D | 41 | 20 | 2680 | 41490 | QPSK | 1 | 99 | 41 | 20 | 2660.2 | 41292 | 41 | 20 | 2640.4 | 41094 | 23.55 |



<Four Carrier power verification>

| Configure | CA Configuration (BCS) | PCC | | | | | | | SCC1 | | | | SCC2 | | | | SCC3 | | | | Power | |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
| | | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | 2A-4A-5A-29A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 4 | 20 | 2132.5 | 2175 | 5 | 10 | 881.5 | 2525 | 29 | 10 | 722.5 | 9715 | 23.07 | 22.98 |
| | 2A-4A-7C | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 4 | 20 | 2132.5 | 2175 | 7 | 20 | 2655 | 3100 | 7 | 20 | 2674.8 | 3298 | 23.01 | 22.98 |
| | 2A-4A-7A-7A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 4 | 20 | 2132.5 | 2175 | 7 | 20 | 2655 | 3100 | 7 | 20 | 2680 | 3350 | 23.06 | 22.98 |
| | 2A-4A-7A-12A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 4 | 20 | 2132.5 | 2175 | 7 | 20 | 2655 | 3100 | 12 | 10 | 737.5 | 5095 | 22.87 | 22.98 |
| | 2A-4A-12A-30A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 4 | 20 | 2132.5 | 2175 | 12 | 10 | 737.5 | 5095 | 30 | 10 | 2355 | 9820 | 22.96 | 22.98 |
| | 2A-4A-29A-30A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 4 | 20 | 2132.5 | 2175 | 29 | 10 | 722.5 | 9715 | 30 | 10 | 2355 | 9820 | 23.15 | 22.98 |
| | 7C-66A-66A | 7 | 20 | 2535 | 21100 | QPSK | 1 | 99 | 7 | 20 | 2674.8 | 3298 | 66 | 20 | 2155 | 66886 | 66 | 20 | 2190 | 67236 | 23.45 | 23.36 |

<Five Carrier power verification>

| Configure | CA Configuration (BCS) | PCC | | | | | | | SCC1 | | | | SCC2 | | | | SCC3 | | | | SCC4 | | | | Power | |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
| | | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | 2A-2A-5A-66A-66A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 2 | 20 | 1980 | 1100 | 5 | 10 | 881.5 | 2525 | 66 | 20 | 2155 | 66886 | 66 | 20 | 2190 | 67236 | 23.02 | 22.98 |
| | 2A-2A-7A-12A-66A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 2 | 20 | 1980 | 1100 | 7 | 20 | 2655 | 3100 | 12 | 10 | 737.5 | 5059 | 66 | 20 | 2155 | 66886 | 23.07 | 22.98 |
| | 2A-5A-30A-66A-66A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 5 | 10 | 881.5 | 2525 | 30 | 10 | 2355 | 9820 | 66 | 20 | 2155 | 66886 | 66 | 20 | 2190 | 67236 | 23.01 | 22.98 |
| | 2A-7A-7A-66A-66A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 7 | 20 | 2655 | 3100 | 7 | 20 | 2674.8 | 3298 | 66 | 20 | 2155 | 66886 | 66 | 20 | 2190 | 67236 | 22.88 | 22.98 |
| | 2A-12A-30A-66A-66A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 12 | 10 | 737.5 | 5095 | 30 | 10 | 2355 | 9820 | 66 | 20 | 2155 | 66886 | 66 | 20 | 2190 | 67236 | 22.99 | 22.98 |
| | 4A-46A-46D | 4 | 20 | 1732.5 | 20175 | QPSK | 1 | 0 | 46 | 20 | 5537.5 | 50665 | 46 | 20 | 5925 | 54539 | 46 | 20 | 5905.2 | 54341 | 46 | 20 | 5930.4 | 54143 | 23.20 | 23.16 |

<Six Carrier power verification>

| Configure | CA Configuration (BCS) | PCC | | | | | | | SCC1 | | | | SCC2 | | | | SCC3 | | | | SCC4 | | | | SCC5 | | | | Power | |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
| | | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | 2A-46E-66A | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 46 | 20 | 5537.5 | 50665 | 46 | 20 | 5557.3 | 50863 | 46 | 20 | 5577.1 | 51061 | 46 | 20 | 5596.9 | 51259 | 66 | 20 | 2155 | 66886 | 22.95 | 22.98 |

<Seven Carrier power verification>

| Configure | CA Configuration (BCS) | PCC | | | | | | | SCC1 | | | | SCC2 | | | | SCC3 | | | | SCC4 | | | | SCC5 | | | | SCC6 | | | | Power | |
|------------|------------------------|----------|----------|----------------|------------|------|--------|--------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|----------|----------|----------------|------------|------------------------|-----------------------|
| | | LTE Band | BW (MHz) | UL Freq. (MHz) | UL Channel | Mod. | UL# RB | UL RB Offset | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | LTE Band | BW (MHz) | DL Freq. (MHz) | DL Channel | With CA Tx.Power (dBm) | W/O CA Tx.Power (dBm) |
| Inter-Band | 2A-7A-7A-46E | 2 | 20 | 1860 | 18700 | QPSK | 1 | 0 | 7 | 20 | 2655 | 3100 | 7 | 20 | 2680 | 3350 | 46 | 20 | 5537.5 | 50665 | 46 | 20 | 5557.3 | 50863 | 46 | 20 | 5577.1 | 51061 | 46 | 20 | 5596.9 | 51259 | 23.11 | 22.98 |



14. 5G NR Output Power (Unit: dBm)

General Note:

1. NR implementation of n5, n66, n71 is limited to EN-DC operations only (NSA), with LTE Bands 2/5/7/12/25/26/30/38/41/66 acting as anchor bands, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors. The detail EN-DC combination as below.
2. Following 5G NR n5/n66/n71 support SCS 30KHz D DFT-s/CP-OFDM, Pi/2 BPSK/QPSK/16QAM/64QAM/256QAM, Bandwidth 5M/10M/15M/20M.
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 class 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-QPSK and the reported SAR for the DFT-QPSK configuration is ≤ 1.45 W/kg; CP-OFDM measurement is not required.
 - b. For DFT-OFDM output power measurement reduction, according to 38.101 maximum power reduction for power class 3, full measurement on Pi/2 BPSK and QPSK, for 16QAM/64QAM/256QAM spot check 1RB 1offset configuration to ensure the output power will not ½ dB higher than Pi/2 BPSK and QPSK, for smaller bandwidth output power will spot check 1RB 1offset configuration at Pi/2 BPSK to ensure output power will not ½ dB higher than largest supported bandwidth.
 - c. SAR testing start with the largest channel bandwidth and measure SAR for Pi/2 BPSK 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 Pi/2 BPSK SAR testing follows 1RB Pi/2 BPSK allocation procedure.
 - e. Pi/2 BPSK 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. QPSK/16QAM/64QAM/256QAM output powers according to 3GPP MPR will not ½ dB higher than the same configuration in Pi/2 BPSK, also reported SAR for the Pi/2 BPSK configuration is less than 1.45 W/kg, QPSK/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. Due to test setup limitations, SAR testing for NR was performed using Factory Test Mode software to establish the connection and perform SAR with 100% transmission.
5. The device implanted DPS (Dynamic Power Share) function to achieve higher uplink data rate keeping the total power unchanged in 5G NR NSA EN-DC mode according to 3GPP 38.213, when the equipment has a dynamic power sharing capability, it adjusts the LTE or NR transmission power so that the instantaneous total power does not exceed the specified value, when the maximum transmission power of NR (P_{LTE}, P_{NR}) and the specified total power (P_{total}) have been set and the instantaneous calculated total transmission power exceeds P_{total}, the NR transmission power is reduced so that the actual transmission power of the user equipment will not exceed P_{total} power.

<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 ² |
| | QPSK | ≤ 1 | | 0 |
| | 16 QAM | ≤ 2 | | ≤ 1 |
| | 64 QAM | | ≤ 2.5 | |
| CP-OFDM | 256 QAM | | ≤ 4.5 | |
| | QPSK | ≤ 3 | | ≤ 1.5 |
| | 16 QAM | ≤ 3 | | ≤ 2 |
| | 64 QAM | | ≤ 3.5 | |
| | 256 QAM | | ≤ 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 | ≤ 3.5 | ≤ 0.5 | 0 |
| | QPSK | ≤ 3.5 | ≤ 1 | 0 |
| | 16 QAM | ≤ 3.5 | ≤ 2 | ≤ 1 |
| | 64 QAM | ≤ 3.5 | | ≤ 2.5 |
| | 256 QAM | | ≤ 4.5 | |
| CP-OFDM | QPSK | ≤ 3.5 | ≤ 3 | ≤ 1.5 |
| | 16 QAM | ≤ 3.5 | ≤ 3 | ≤ 2 |
| | 64 QAM | | ≤ 3.5 | |
| | 256 QAM | | ≤ 6.5 | |



<EN-DC combination and power level>

General Note:

1. Due to the device implanted DPS (Dynamic Power Share) function and the DPS will manage to ensure the averaged power level not exceeding total power 24dBm in each EN-DC combination, so for each combination in each NR band or LTE Anchors Bands if the SAR test level at 24dBm which the Sim-Tx analysis only required separate LTE or NR transmit simultaneous with WiFi / Bluetooth.
2. If the EN-DC combination SAR was not test at 24dBm level which the DPS was in-active, so the Sim-Tx analysis need to compliance with single uplink 1g SAR values for each LTE Anchors Bands and 5G NR are both less than 0.8W/kg and the algebraic summation of the 1g SAR value are less than 1.45W/kg, additional measurements are not required according to TCBC workshop guidance.

| ENDC Combination | Band | Head power(dBm) | Hotspot/Body-worn power(dBm) |
|------------------|---------|-----------------|------------------------------|
| DC_2A_n5A | LTE B2 | 24 | 14.5 |
| | N5 | 24 | 24 |
| DC_7A_n5A | LTE B7 | 24 | 19 |
| | N5 | 24 | 24 |
| DC_30A_n5A | LTE B30 | 24 | 16 |
| | N5 | 24 | 24 |
| DC_66A_n5A | LTE B66 | 24 | 16 |
| | N5 | 24 | 24 |
| DC_2A_n71A | LTE B2 | 24 | 14.5 |
| | N71 | 24 | 24 |
| DC_66A_n71A | LTE B66 | 24 | 16 |
| | N71 | 24 | 24 |
| DC_7A_n71A | LTE B7 | 24 | 19 |
| | N71 | 24 | 24 |
| DC_12A_n66A | LTE B12 | 24 | 24 |
| | N66 | 24 | 22.5 |
| DC_13A_n66A | LTE B13 | 24 | 21.5 |
| | N66 | 24 | 22.5 |
| DC_2A_n66A | LTE B2 | 24 | 14.5 |
| | N66 | 24 | 22.5 |
| DC_30A_n66A | LTE B30 | 24 | 16 |
| | N66 | 24 | 22.5 |
| DC_5A_n66A | LTE B5 | 24 | 22 |
| | N66 | 24 | 22.5 |
| DC_7A_n66A | LTE B7 | 24 | 19 |
| | N66 | 24 | 22.5 |
| DC_66_n66A | LTE B66 | 24 | 16 |
| | N66 | 24 | 22.5 |



<Default Power Mode>
<5G NR n5>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 166800 | 167300 | 167800 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 834 | 837 | 839 | | |
| 20 | PI/2 BPSK | 1 | 1 | 23.74 | 23.84 | 23.95 | | |
| 20 | PI/2 BPSK | 1 | 53 | 23.68 | 23.78 | 23.92 | 24.0 | 0.0 |
| 20 | PI/2 BPSK | 1 | 104 | 23.59 | 23.68 | 23.77 | | |
| 20 | PI/2 BPSK | 50 | 0 | 23.62 | 23.82 | 23.94 | | |
| 20 | PI/2 BPSK | 50 | 28 | 23.64 | 23.82 | 23.81 | 24.0 | 0.0 |
| 20 | PI/2 BPSK | 50 | 56 | 23.64 | 23.73 | 23.94 | | |
| 20 | PI/2 BPSK | 100 | 0 | 22.70 | 22.82 | 22.78 | | |
| 20 | QPSK | 1 | 1 | 23.66 | 23.67 | 23.91 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.62 | 23.60 | 23.80 | | |
| 20 | QPSK | 1 | 104 | 23.56 | 23.54 | 23.60 | | |
| 20 | QPSK | 50 | 0 | 23.66 | 23.70 | 23.84 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 28 | 23.67 | 23.69 | 23.81 | | |
| 20 | QPSK | 50 | 56 | 23.54 | 23.67 | 23.62 | | |
| 20 | QPSK | 100 | 0 | 22.74 | 22.81 | 22.78 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 22.58 | 22.66 | 22.79 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 21.05 | 21.28 | 21.37 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.06 | 19.15 | 19.44 | 19.5 | 4.5 |
| Channel | | | | 166300 | 167300 | 168300 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 831.5 | 836.5 | 841.5 | | |
| 15 | QPSK | 1 | 1 | 23.51 | 23.50 | 23.67 | 24.0 | 0.0 |
| Channel | | | | 165800 | 167300 | 168800 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 829 | 836.5 | 844 | | |
| 10 | QPSK | 1 | 1 | 23.40 | 23.52 | 23.64 | 24.0 | 0.0 |
| Channel | | | | 165300 | 167300 | 169300 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 826.5 | 836.5 | 846.5 | | |
| 5 | QPSK | 1 | 1 | 23.46 | 23.63 | 23.63 | 24.0 | 0.0 |



<5G NR n66>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 346000 | 349000 | 352000 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 1730 | 1745 | 1760 | | |
| 20 | PI/2 BPSK | 1 | 1 | 23.76 | 23.89 | 23.80 | | |
| 20 | PI/2 BPSK | 1 | 53 | 23.59 | 23.75 | 23.60 | 24.0 | 0.0 |
| 20 | PI/2 BPSK | 1 | 104 | 23.68 | 23.85 | 23.68 | | |
| 20 | PI/2 BPSK | 50 | 0 | 23.67 | 23.73 | 23.72 | | |
| 20 | PI/2 BPSK | 50 | 28 | 23.69 | 23.62 | 23.65 | 24.0 | 0.0 |
| 20 | PI/2 BPSK | 50 | 56 | 23.61 | 23.71 | 23.67 | | |
| 20 | PI/2 BPSK | 100 | 0 | 22.58 | 22.69 | 22.77 | | |
| 20 | QPSK | 1 | 1 | 23.59 | 23.73 | 23.75 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.55 | 23.71 | 23.56 | | |
| 20 | QPSK | 1 | 104 | 23.67 | 23.67 | 23.56 | | |
| 20 | QPSK | 50 | 0 | 23.59 | 23.80 | 23.64 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 28 | 23.44 | 23.61 | 23.52 | | |
| 20 | QPSK | 50 | 56 | 23.59 | 23.79 | 23.53 | | |
| 20 | QPSK | 100 | 0 | 22.24 | 22.56 | 22.74 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 22.39 | 22.63 | 22.57 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 20.88 | 21.02 | 21.15 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.06 | 18.99 | 19.11 | 19.5 | 4.5 |
| Channel | | | | 343500 | 349000 | 354500 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 1717.5 | 1745 | 1772.5 | | |
| 15 | QPSK | 1 | 1 | 23.40 | 23.73 | 23.75 | 24.0 | 0.0 |
| Channel | | | | 343000 | 349000 | 355000 | | |
| Frequency (MHz) | | | | 1715 | 1745 | 1775 | 24.0 | 0.0 |
| 10 | QPSK | 1 | 1 | 23.43 | 23.64 | 23.72 | | |
| Channel | | | | 342500 | 349000 | 355500 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 1712.5 | 1745 | 1777.5 | | |
| 5 | QPSK | 1 | 1 | 23.58 | 23.60 | 23.66 | 24.0 | 0.0 |



<5G NR n71>

| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel | | | | 134600 | 136100 | 137600 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 673 | 681 | 688 | | |
| 20 | PI/2 BPSK | 1 | 1 | 23.95 | 23.97 | 23.88 | | |
| 20 | PI/2 BPSK | 1 | 53 | 23.84 | 23.83 | 23.77 | 24.0 | 0.0 |
| 20 | PI/2 BPSK | 1 | 104 | 23.80 | 23.85 | 23.81 | | |
| 20 | PI/2 BPSK | 50 | 0 | 23.86 | 23.86 | 23.83 | | |
| 20 | PI/2 BPSK | 50 | 28 | 23.81 | 23.77 | 23.79 | 24.0 | 0.0 |
| 20 | PI/2 BPSK | 50 | 56 | 23.78 | 23.83 | 23.81 | | |
| 20 | PI/2 BPSK | 100 | 0 | 22.94 | 22.89 | 22.81 | | |
| 20 | QPSK | 1 | 1 | 23.81 | 23.80 | 23.76 | 24.0 | 0.0 |
| 20 | QPSK | 1 | 53 | 23.82 | 23.78 | 23.69 | | |
| 20 | QPSK | 1 | 104 | 23.92 | 23.79 | 23.68 | | |
| 20 | QPSK | 50 | 0 | 23.86 | 23.91 | 23.78 | 24.0 | 0.0 |
| 20 | QPSK | 50 | 28 | 23.91 | 23.90 | 23.85 | | |
| 20 | QPSK | 50 | 56 | 23.88 | 23.77 | 23.71 | | |
| 20 | QPSK | 100 | 0 | 22.95 | 22.88 | 22.83 | 23.0 | 1.0 |
| 20 | 16QAM | 1 | 1 | 22.89 | 22.86 | 22.68 | 23.0 | 1.0 |
| 20 | 64QAM | 1 | 1 | 21.37 | 21.35 | 21.38 | 21.5 | 2.5 |
| 20 | 256QAM | 1 | 1 | 19.36 | 19.40 | 19.37 | 19.5 | 4.5 |
| Channel | | | | 134100 | 136100 | 138100 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 670.5 | 680.5 | 690.5 | | |
| 15 | QPSK | 1 | 1 | 23.94 | 23.89 | 23.86 | 24.0 | 0.0 |
| Channel | | | | 133600 | 136100 | 138600 | | |
| Frequency (MHz) | | | | 668 | 680.5 | 693 | 24.0 | 0.0 |
| 10 | QPSK | 1 | 1 | 23.89 | 23.95 | 23.74 | | |
| Channel | | | | 133100 | 136100 | 139100 | 24.0 | 0.0 |
| Frequency (MHz) | | | | 665.5 | 680.5 | 695.5 | | |
| 5 | QPSK | 1 | 1 | 23.91 | 23.88 | 23.70 | 24.0 | 0.0 |



15. WiFi/Bluetooth Output Power (Unit: dBm)

General Note:

1. 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.
2. 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).
3. 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.
4. 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 ≤ 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 ≤ 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 ≤ 1.2 W/kg or all required channels are tested.
5. Per 201904 TCBC workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA)
6. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
7. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
8. When SAR testing for 802.11ax is required
 - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
 - b. Otherwise, consider the fully allocated channel for SAR testing
 - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel
 - d. In this report, the 802.11ax maximum output power is low than the low 802.11 mode, therefore, 802.11ax SAR was not necessary according to KLDB 447498 D01 section 5.3.2.
9. For each antenna, transmit power in SISO operation is equal the power in MIMO operation, for RF exposure compliance of SISO mode can be deduced from the compliance transmission of single antenna operating in MIMO mode.
10. 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, for each frequency band. Additional output power measurements were not deemed necessary.
11. The Tx Beamforming maximum power is equal to the 802.11 mode, therefore, the output power measurement was not necessary
12. The device implements the power management for WLAN SAR compliance at different exposure conditions (head, body-worn, hotspot, extremity). Details about the power management decision are provided in the operational description.



<Default Max Power Mode>

<2.4GHZ WLAN>

| Transmit antenna | | | | Ant 6 | | | Ant 4 | | | Ant 4+6 | | | | | | |
|--------------------|--------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | |
| 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 17.70 | 17.80 | 100.00 | 17.40 | 17.80 | 100.00 | 17.70 | 17.80 | 16.90 | 17.80 | 20.33 | 20.80 | 100.00 |
| | | 6 | 2437 | 17.70 | 17.80 | | 17.70 | 17.80 | | 16.80 | 17.80 | 20.28 | 20.80 | | | |
| | | 11 | 2462 | 17.70 | 17.80 | | 17.40 | 17.80 | | 16.30 | 17.80 | 20.12 | 20.80 | | | |
| | 802.11g 6Mbps | 1 | 2412 | Not Required | 17.80 | 99.25 | Not Required | 17.80 | 99.25 | Not Required | 17.80 | Not Required | 17.80 | Not Required | 20.80 | 99.25 |
| | | 6 | 2437 | | 17.80 | | | 17.80 | | | 20.80 | | | | | |
| | | 11 | 2462 | | 17.80 | | | 17.80 | | | 20.80 | | | | | |
| | 802.11n-HT20 MCS0 | 1 | 2412 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | Not Required | 17.50 | Not Required | 20.50 | 100.00 |
| | | 6 | 2437 | | 17.80 | | | 17.80 | | | 20.80 | | | | | |
| | | 11 | 2462 | | 17.50 | | | 17.50 | | | 20.50 | | | | | |
| | 802.11ax-HE20 MCS0 | 1 | 2412 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | Not Required | 17.00 | Not Required | 20.00 | 100.00 |
| | | 6 | 2437 | | 17.80 | | | 17.80 | | | 20.80 | | | | | |
| | | 11 | 2462 | | 17.00 | | | 17.00 | | | 20.00 | | | | | |
| 802.11ax-HE40 MCS0 | 3 | 2422 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | Not Required | 17.50 | Not Required | 20.50 | 100.00 | |
| | 6 | 2437 | | 17.80 | | | 17.80 | | | 20.80 | | | | | | |
| | 9 | 2452 | | 16.50 | | | 16.50 | | | 19.50 | | | | | | |

<5GHZ WLAN>

| Transmit antenna | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | |
|---------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | |
| 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | Not Required | 16.80 | 99.00 | Not Required | 16.80 | 99.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 99.00 |
| | | 40 | 5200 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | | 44 | 5220 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | | 48 | 5240 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | 802.11n-HT20 MCS0 | 36 | 5180 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | Not Required | 16.00 | Not Required | 19.00 | 100.00 |
| | | 40 | 5200 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | | 44 | 5220 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | | 48 | 5240 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | 802.11n-HT40 MCS0 | 38 | 5190 | 14.70 | 16.00 | 100.00 | 14.60 | 16.00 | 100.00 | 14.70 | 16.00 | 14.70 | 16.00 | 17.71 | 19.00 | 100.00 |
| | | 46 | 5230 | 16.20 | 16.80 | 100.00 | 16.20 | 16.80 | 100.00 | 16.20 | 16.80 | 16.20 | 16.80 | 19.21 | 19.80 | 100.00 |
| | 802.11ac-VHT20 MCS0 | 36 | 5180 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 100.00 |
| | | 40 | 5200 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | | 44 | 5220 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | | 48 | 5240 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| | 802.11ac-VHT40 MCS0 | 38 | 5190 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | Not Required | 16.00 | Not Required | 19.00 | 100.00 |
| | | 46 | 5230 | | 16.80 | 16.80 | | 19.80 | | | | | | | | |
| 802.11ac-VHT80 MCS0 | 42 | 5210 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | Not Required | 15.00 | Not Required | 18.00 | 100.00 | |
| 802.11ax-HE20 MCS0 | 36 | 5180 | | 16.50 | 100.00 | | Not Required | 16.50 | | 100.00 | | Not Required | | 16.50 | Not Required | 16.50 |
| | 40 | 5200 | 16.50 | 16.50 | | 19.50 | | | | | | | | | | |
| | 44 | 5220 | 16.80 | 16.80 | | 19.80 | | | | | | | | | | |
| | 48 | 5240 | 16.80 | 16.80 | | 19.80 | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 38 | 5190 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | Not Required | 15.50 | Not Required | 18.50 | 100.00 | |
| | 46 | 5230 | | 16.80 | 16.80 | | 19.80 | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 42 | 5210 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | Not Required | 15.00 | Not Required | 18.00 | 100.00 | |
| | | | | | | | | | | | | | | | | |



| Transmit antenna | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | |
|--------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | |
| 5.2GHz WLAN | 802.11a 6Mbps | 52 | 5260 | Not Required | 16.80 | 99.00 | Not Required | 16.80 | 99.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 99.00 |
| | | 56 | 5280 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | | 60 | 5300 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | | 64 | 5320 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 802.11n-HT20 MCS0 | 52 | 5260 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 100.00 |
| | | 56 | 5280 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | | 60 | 5300 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | | 64 | 5320 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 802.11n-HT40 MCS0 | 54 | 5270 | 16.30 | 16.80 | 100.00 | 16.50 | 16.80 | 16.50 | 16.80 | 16.54 | 16.80 | 19.53 | 19.80 | 100.00 | |
| | | 62 | 5310 | 16.40 | 16.80 | | 16.30 | 16.80 | 16.34 | 16.80 | 16.40 | 16.80 | 19.38 | 19.80 | | |
| | 802.11ac-VHT20 MCS0 | 52 | 5260 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 100.00 |
| | | 56 | 5280 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | | 60 | 5300 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | | 64 | 5320 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 802.11ac-VHT40 MCS0 | 54 | 5270 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 100.00 |
| | | 62 | 5310 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 802.11ac-VHT80 MCS0 | 58 | 5290 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | Not Required | 15.50 | Not Required | 18.50 | 100.00 |
| | 802.11ax-HE20 MCS0 | 52 | 5260 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 100.00 |
| | | 56 | 5280 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | | 60 | 5300 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| 64 | | 5320 | 16.80 | | 16.80 | | | 16.80 | | | 19.80 | | | | | |
| 802.11ax-HE40 MCS0 | 54 | 5270 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 100.00 | |
| | 62 | 5310 | | 15.50 | | | 15.50 | | | 15.50 | | 18.50 | | | | |
| 802.11ax-HE80 MCS0 | 58 | 5290 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | Not Required | 15.00 | Not Required | 18.00 | 100.00 | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | |
|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps | 100 | 5500 | | 16.80 | 99.00 | | 16.80 | 99.00 | | 16.80 | | 16.80 | | 19.80 | 99.00 |
| | 116 | 5580 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 124 | 5620 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 132 | 5660 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 144 | 5720 | | 16.00 | | | 16.00 | | | 16.00 | | 19.00 | | | |
| 802.11n-HT20 MCS0 | 100 | 5500 | | 16.80 | 100.00 | | 16.80 | 100.00 | | 16.80 | | 16.80 | | 19.80 | 100.00 |
| | 116 | 5580 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 124 | 5620 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 132 | 5660 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 144 | 5720 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| 802.11n-HT40 MCS0 | 102 | 5510 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 100.00 |
| | 110 | 5550 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 126 | 5630 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 134 | 5670 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 142 | 5710 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| 802.11ac-VHT20 MCS0 | 100 | 5500 | | 16.80 | 100.00 | | 16.80 | 100.00 | | 16.80 | | 16.80 | | 19.80 | 100.00 |
| | 116 | 5580 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 124 | 5620 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 132 | 5660 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 144 | 5720 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| 802.11ac-VHT40 MCS0 | 102 | 5510 | | 16.80 | 100.00 | | 16.80 | 100.00 | | 16.80 | | 16.80 | | 19.80 | 100.00 |
| | 110 | 5550 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 126 | 5630 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 134 | 5670 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 142 | 5710 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 15.90 | 16.80 | 100.00 | 15.90 | 16.80 | 100.00 | 15.90 | 16.80 | 15.90 | 16.80 | 18.91 | 19.80 | 100.00 |
| | 122 | 5610 | 16.50 | 16.80 | | 16.80 | 16.80 | | 16.80 | 16.80 | 16.80 | 19.80 | 19.80 | | |
| | 138 | 5690 | 16.50 | 16.80 | | 16.40 | 16.80 | | 15.98 | 16.80 | 16.00 | 16.80 | 19.00 | 19.80 | |
| 802.11ax-HE20 MCS0 | 100 | 5500 | | 16.80 | 100.00 | | 16.80 | 100.00 | | 16.80 | | 16.80 | | 19.80 | 100.00 |
| | 116 | 5580 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 124 | 5620 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 132 | 5660 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 144 | 5720 | | 16.50 | | | 16.50 | | | 16.50 | | 19.50 | | | |
| 802.11ax-HE40 MCS0 | 102 | 5510 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | 100.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 100.00 |
| | 110 | 5550 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 126 | 5630 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 134 | 5670 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 142 | 5710 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| 802.11ax-HE80 MCS0 | 106 | 5530 | | 16.80 | 100.00 | | 16.80 | 100.00 | | 16.80 | | 16.80 | | 19.80 | 100.00 |
| | 122 | 5610 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |
| | 138 | 5690 | | 16.80 | | | 16.80 | | | 16.80 | | 19.80 | | | |



| Transmit antenna | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | |
|--------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|-------|-------|-------|-------|--------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | |
| 5.2GHz WLAN | 802.11a 6Mbps | 149 | 5745 | Not Required | 16.80 | 99.00 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 16.80 | Not Required | 19.80 | 99.00 | | | | | | |
| | | 157 | 5785 | | 16.80 | | | 16.80 | | 16.80 | | 19.80 | | | | | | | | | |
| | | 165 | 5825 | | 16.80 | | | 16.80 | | 16.80 | | 19.80 | | | | | | | | | |
| | | 149 | 5745 | | 16.80 | | | 16.80 | | 16.80 | | 19.80 | | | | | | | | | |
| | 802.11n-HT20 MCS0 | 157 | 5785 | | 16.80 | 100.00 | | 16.80 | | 100.00 | | 16.80 | | 16.80 | 16.80 | 16.80 | 16.80 | 16.80 | 19.80 | 100.00 | |
| | | 165 | 5825 | | 16.80 | | | 16.80 | | | | 16.80 | | 19.80 | | | | | | | |
| | | 151 | 5755 | | 16.80 | | | 16.80 | | | | 16.80 | | 19.80 | | | | | | | |
| | 802.11n-HT40 MCS0 | 149 | 5745 | | 16.80 | 100.00 | | 16.80 | | 100.00 | | 16.80 | | 16.80 | 16.80 | 16.80 | 16.80 | 16.80 | 19.80 | 100.00 | |
| | | 157 | 5785 | | 16.80 | | | 16.80 | | | | 16.80 | | 19.80 | | | | | | | |
| | 802.11ac-VHT20 MCS0 | 165 | 5825 | | 16.80 | 100.00 | | 16.80 | | 100.00 | | 16.80 | | 16.80 | 16.80 | 16.80 | 16.80 | 16.80 | 19.80 | 100.00 | |
| | | 159 | 5795 | | 16.80 | | | 16.80 | | | | 16.80 | | 19.80 | | | | | | | |
| | | 155 | 5775 | | 16.80 | | | 16.80 | | | | 16.80 | | 19.80 | | | | | | | |
| | 802.11ac-VHT40 MCS0 | 149 | 5745 | | 16.80 | 100.00 | | 16.80 | | 100.00 | | 16.80 | | 16.80 | 16.80 | 16.80 | 16.80 | 16.80 | 19.80 | 100.00 | |
| | | 157 | 5785 | | 16.80 | | | 16.80 | | | | 16.80 | | 19.80 | | | | | | | |
| | 802.11ac-VHT80 MCS0 | 165 | 5825 | | 16.70 | 16.80 | | 100.00 | | 16.70 | | 16.80 | | 100.00 | 16.80 | 16.80 | 16.70 | 16.80 | 16.76 | 19.80 | 100.00 |
| | 802.11ax-HE20 MCS0 | 151 | 5755 | | 16.80 | 100.00 | | 16.80 | | 100.00 | | 16.80 | | 100.00 | 16.80 | 16.80 | 16.80 | 16.80 | 16.80 | 19.80 | 100.00 |
| | | 159 | 5795 | | 16.80 | | | 16.80 | | | | 16.80 | | | 19.80 | | | | | | |
| | | 155 | 5775 | | 16.80 | | | 16.80 | | | | 16.80 | | | 19.80 | | | | | | |
| | | 149 | 5745 | | 16.80 | | | 16.80 | | | | 16.80 | | | 19.80 | | | | | | |
| | 802.11ax-HE40 MCS0 | 157 | 5785 | | 16.80 | 100.00 | | 16.80 | | 100.00 | | 16.80 | | 16.80 | 16.80 | 16.80 | 16.80 | 16.80 | 19.80 | 100.00 | |
| 165 | | 5825 | 16.80 | 16.80 | 16.80 | | 19.80 | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 149 | 5745 | 16.80 | 100.00 | 16.80 | 100.00 | 16.80 | 100.00 | 16.80 | 16.80 | 16.80 | 16.80 | 19.80 | 100.00 | | | | | | | |



<Power Table 1>

<2.4GHz WLAN>

| 2.4GHz WLAN | | | | Ant 6 | | | Ant 4 | | | Ant 4+6 | | | | | | |
|--------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|
| 2.4GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| | 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 14.10 | 14.30 | 100.00 | 14.10 | 14.30 | 100.00 | 14.30 | 14.30 | 13.96 | 14.30 | 17.14 | 17.30 |
| 6 | | | 2437 | 14.10 | 14.30 | 14.00 | | 14.30 | 14.30 | | 13.96 | 14.30 | 17.14 | 17.30 | | |
| 11 | | | 2462 | 14.10 | 14.30 | 14.00 | | 14.30 | 14.30 | | 14.12 | 14.30 | 17.22 | 17.30 | | |
| 802.11g 6Mbps | | 1 | 2412 | Not Required | 14.30 | 99.25 | 14.30 | 14.30 | 99.25 | 14.30 | 14.30 | 14.30 | 14.30 | 17.30 | 99.25 | |
| | | 6 | 2437 | | 14.30 | | 14.30 | 14.30 | | 14.30 | 17.30 | | | | | |
| | | 11 | 2462 | | 14.30 | | 14.30 | 14.30 | | 14.30 | 17.30 | | | | | |
| 802.11n-HT20 MCS0 | | 1 | 2412 | Not Required | 14.30 | 100.00 | 14.30 | 14.30 | 100.00 | 14.30 | 14.30 | 14.30 | 14.30 | 17.30 | 100.00 | |
| | | 6 | 2437 | | 14.30 | | 14.30 | 14.30 | | 14.30 | 17.30 | | | | | |
| | | 11 | 2462 | | 14.30 | | 14.30 | 14.30 | | 14.30 | 17.30 | | | | | |
| 802.11ax-HE20 MCS0 | | 1 | 2412 | Not Required | 14.30 | 100.00 | 14.30 | 14.30 | 100.00 | 14.30 | 14.30 | 14.30 | 14.30 | 17.30 | 100.00 | |
| | | 6 | 2437 | | 14.30 | | 14.30 | 14.30 | | 14.30 | 17.30 | | | | | |
| | | 11 | 2462 | | 14.30 | | 14.30 | 14.30 | | 14.30 | 17.30 | | | | | |
| 802.11ax-HE40 MCS0 | | 3 | 2422 | Not Required | 14.30 | 100.00 | 14.30 | 14.30 | 100.00 | 14.30 | 14.30 | 14.30 | 14.30 | 17.30 | 100.00 | |
| | | 6 | 2437 | | 14.30 | | 14.30 | 14.30 | | 14.30 | 17.30 | | | | | |
| | | 9 | 2452 | | 14.30 | | 14.30 | 14.30 | | 14.30 | 17.30 | | | | | |



<5GHz WLAN>

| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | |
|--------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------------|-------|--------------|--------|--------|-------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | |
| 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | Not Required | 13.30 | 99.00 | Not Required | 13.30 | Not Required | 13.30 | 13.30 | 13.30 | Not Required | 16.30 | 99.00 | | | | | | |
| | | 40 | 5200 | | 13.30 | | | 13.30 | | 16.30 | | | | | | | | | | | |
| | | 44 | 5220 | | 13.30 | | | 13.30 | | 16.30 | | | | | | | | | | | |
| | | 48 | 5240 | | 13.30 | | | 13.30 | | 16.30 | | | | | | | | | | | |
| | 802.11n-HT20 MCS0 | 36 | 5180 | | 13.30 | 100.00 | | 13.30 | | 100.00 | 13.30 | 100.00 | | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | |
| | | 40 | 5200 | | 13.30 | | | 13.30 | | | 16.30 | | | | | | | | | | |
| | | 44 | 5220 | | 13.30 | | | 13.30 | | | 16.30 | | | | | | | | | | |
| | | 48 | 5240 | | 13.30 | | | 13.30 | | | 16.30 | | | | | | | | | | |
| | 802.11n-HT40 MCS0 | 38 | 5190 | | 13.30 | 100.00 | | 13.30 | | 100.00 | 13.30 | 100.00 | | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | |
| | | 46 | 5230 | | 13.30 | | | 13.30 | | | 16.30 | | | | | | | | | | |
| | 802.11ac-VHT20 MCS0 | 36 | 5180 | | 13.00 | 13.30 | | 100.00 | | 13.10 | 13.30 | 100.00 | | 13.10 | 13.30 | 13.20 | 13.30 | 16.16 | 100.00 | | |
| | | 40 | 5200 | | | 13.30 | | | | | | | | | | | | | | 13.30 | 16.30 |
| | | 44 | 5220 | | | 13.30 | | | | | | | | | | | | | | 13.30 | 16.30 |
| | 802.11ac-VHT40 MCS0 | 38 | 5190 | | 13.30 | 100.00 | | 13.30 | | 100.00 | 13.30 | 100.00 | | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | |
| | | 46 | 5230 | | 13.30 | | | 13.30 | | | 16.30 | | | | | | | | | | |
| | 802.11ac-VHT80 MCS0 | 42 | 5210 | | 13.30 | 100.00 | | 13.10 | | 13.30 | 100.00 | 13.10 | | 13.30 | 13.20 | 13.30 | 16.16 | 100.00 | | | |
| | 802.11ax-HE20 MCS0 | 36 | 5180 | | Not Required | 13.30 | | 100.00 | | Not Required | 13.30 | 100.00 | | Not Required | 13.30 | Not Required | 13.30 | Not Required | 16.30 | 100.00 | |
| | | 40 | 5200 | | | 13.30 | | | | | 13.30 | | | | 16.30 | | | | | | |
| | | 44 | 5220 | | | 13.30 | | | | | 13.30 | | | | 16.30 | | | | | | |
| | | 48 | 5240 | | | 13.30 | | | | | 13.30 | | | | 16.30 | | | | | | |
| 802.11ax-HE40 MCS0 | 38 | 5190 | 13.30 | 100.00 | 13.30 | 100.00 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | |
| | 46 | 5230 | 13.30 | | 13.30 | | 16.30 | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 42 | 5210 | 13.30 | 100.00 | 13.30 | 100.00 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | | | | | |
|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|--------------|--------|--------|--------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | | | | | | |
| | | | | 13.30 | 99.00 | | 13.30 | 99.00 | | 13.30 | | 13.30 | | 13.30 | 16.30 | 99.00 | | | | | | | | | | | | |
| 802.11a 6Mbps | 52 | 5260 | Not Required | 13.30 | 99.00 | Not Required | 13.30 | 99.00 | Not Required | 13.30 | Not Required | 13.30 | Not Required | 16.30 | 99.00 | | | | | | | | | | | | | |
| | 56 | 5280 | | 13.30 | | | 13.30 | | | 13.30 | | 16.30 | | | | | | | | | | | | | | | | |
| | 60 | 5300 | | 13.30 | | | 13.30 | | | 13.30 | | 16.30 | | | | | | | | | | | | | | | | |
| | 64 | 5320 | | 13.30 | | | 13.30 | | | 13.30 | | 16.30 | | | | | | | | | | | | | | | | |
| 802.11n-HT20 MCS0 | 52 | 5260 | | 13.30 | 100.00 | | Not Required | 13.30 | | 100.00 | | Not Required | | 13.30 | Not Required | 13.30 | 100.00 | 16.30 | 100.00 | | | | | | | | | |
| | 56 | 5280 | | 13.30 | | | | 13.30 | | | | | | 13.30 | | 16.30 | | | | | | | | | | | | |
| | 60 | 5300 | | 13.30 | | | | 13.30 | | | | | | 13.30 | | 16.30 | | | | | | | | | | | | |
| | 64 | 5320 | | 13.30 | | | | 13.30 | | | | | | 13.30 | | 16.30 | | | | | | | | | | | | |
| 802.11n-HT40 MCS0 | 54 | 5270 | | 13.30 | 100.00 | | | Not Required | | 13.30 | | | | 100.00 | | Not Required | 13.30 | Not Required | 13.30 | 100.00 | 16.30 | 100.00 | | | | | | |
| | 62 | 5310 | | 13.30 | | | | | | 13.30 | | | | | | | 13.30 | | 16.30 | | | | | | | | | |
| 802.11ac-VHT20 MCS0 | 52 | 5260 | | 13.30 | 100.00 | | | | | Not Required | | | | 13.30 | | | 100.00 | | Not Required | 13.30 | Not Required | 13.30 | 100.00 | 16.30 | 100.00 | | | |
| | 56 | 5280 | | 13.30 | | | | | | | | | | 13.30 | | | | | | 13.30 | | 16.30 | | | | | | |
| | 60 | 5300 | | 13.30 | | | | | | | | | | 13.30 | | | | | | 13.30 | | 16.30 | | | | | | |
| | 64 | 5320 | | 13.30 | | | | | | | | | | 13.30 | | | | | | 13.30 | | 16.30 | | | | | | |
| 802.11ac-VHT40 MCS0 | 54 | 5270 | | 13.30 | 100.00 | | | | | | | | | Not Required | | | 13.30 | | | 100.00 | | Not Required | 13.30 | Not Required | 13.30 | 100.00 | 16.30 | 100.00 |
| | 62 | 5310 | | 13.30 | | | | | | | | | | | | | 13.30 | | | | | | 13.30 | | 16.30 | | | |
| 802.11ac-VHT80 MCS0 | 58 | 5290 | 13.20 | 100.00 | 13.20 | 100.00 | | | 13.20 | | 100.00 | | 13.20 | | | | 100.00 | | | 13.20 | | | 100.00 | | 16.21 | 100.00 | | |
| 802.11ax-HE20 MCS0 | 52 | 5260 | Not Required | 13.30 | 100.00 | Not Required | | | 13.30 | | 100.00 | | Not Required | | | | 13.30 | | | Not Required | | | 13.30 | | 100.00 | 16.30 | 100.00 | |
| | 56 | 5280 | | 13.30 | | | | | 13.30 | | | | | | | | 13.30 | | | | | | 16.30 | | | | | |
| | 60 | 5300 | | 13.30 | | | | | 13.30 | | | | | | | | 13.30 | | | | | | 16.30 | | | | | |
| | 64 | 5320 | | 13.30 | | | 13.30 | | 13.30 | | | 16.30 | | | | | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 54 | 5270 | | 13.30 | 100.00 | | Not Required | | 13.30 | | 100.00 | Not Required | | | 13.30 | | Not Required | | | | | | 13.30 | | 100.00 | 16.30 | 100.00 | |
| | 62 | 5310 | | 13.30 | | | | | 13.30 | | | | | | 13.30 | | | | | | | | 16.30 | | | | | |
| 802.11ax-HE80 MCS0 | 58 | 5290 | | 13.30 | 100.00 | | | | 13.30 | | 100.00 | | | | 13.30 | | | | | | | | 100.00 | | 13.30 | 100.00 | 13.30 | 100.00 |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | | |
|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | | | |
| 802.11a 6Mbps | 100 | 5500 | Not Required | 13.30 | 99.00 | 13.30 | 13.30 | 99.00 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 99.00 | | | | | | | | | | |
| | 116 | 5580 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | |
| | 124 | 5620 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 132 | 5660 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 144 | 5720 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| 802.11n-HT20 MCS0 | 100 | 5500 | Not Required | 13.30 | 100.00 | 13.30 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | | | | |
| | 116 | 5580 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | |
| | 124 | 5620 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 132 | 5660 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 144 | 5720 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| 802.11n-HT40 MCS0 | 102 | 5510 | Not Required | 13.30 | 100.00 | 13.30 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | | | | |
| | 110 | 5550 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | |
| | 126 | 5630 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 134 | 5670 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 142 | 5710 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| 802.11ac-VHT20 MCS0 | 100 | 5500 | Not Required | 13.30 | 100.00 | 13.30 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | | | | |
| | 116 | 5580 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | |
| | 124 | 5620 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 132 | 5660 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 144 | 5720 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| 802.11ac-VHT40 MCS0 | 102 | 5510 | Not Required | 13.30 | 100.00 | 13.30 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | | | | |
| | 110 | 5550 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | |
| | 126 | 5630 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 134 | 5670 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 142 | 5710 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 13.00 | 13.30 | 100.00 | 12.90 | 13.30 | 100.00 | 13.21 | 13.30 | 13.30 | 13.30 | 16.27 | 16.30 | 100.00 | | | | | | | | | | |
| | 122 | 5610 | 13.00 | 13.30 | | 13.00 | 13.30 | | 13.20 | 13.30 | 13.30 | 13.30 | 16.26 | 16.30 | | | | | | | | | | | |
| | 138 | 5690 | 13.00 | 13.30 | | 13.10 | 13.30 | | 13.11 | 13.30 | 13.30 | 13.30 | 16.22 | 16.30 | | | | | | | | | | | |
| 802.11ax-HE20 MCS0 | 100 | 5500 | Not Required | 13.30 | 100.00 | 13.30 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | | | | |
| | 116 | 5580 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | |
| | 124 | 5620 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 132 | 5660 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 144 | 5720 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| 802.11ax-HE40 MCS0 | 102 | 5510 | Not Required | 13.30 | 100.00 | 13.30 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | | | | |
| | 110 | 5550 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 126 | 5630 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 134 | 5670 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| | 142 | 5710 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |
| 802.11ax-HE80 MCS0 | 106 | 5530 | Not Required | 13.30 | 100.00 | 13.30 | 13.30 | 100.00 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | 100.00 | | | | | | | | | | |
| | 122 | 5610 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 | |
| | 138 | 5690 | | 13.30 | | | | | | | | | | | | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 13.30 | 16.30 |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|--------------|--------------|--------------|--------|--------------|--------------|--------------|-------|--------------|--------|--------------|
| 5.8GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | | | | | | | | | | | | | | | |
| | 5.8GHz WLAN | 802.11a 6Mbps | 149 | 5745 | Not Required | 13.30 | 99.00 | Not Required | 13.30 | 99.00 | Not Required | 13.30 | Not Required | 13.30 | Not Required | 16.30 | 99.00 | | | | | | | | | | | | | | | | | | | | | |
| 157 | | | 5785 | 13.30 | | 13.30 | | | 13.30 | | | 16.30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 165 | | | 5825 | 13.30 | | 13.30 | | | 13.30 | | | 16.30 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 149 | 5745 | 13.30 | | 100.00 | Not Required | | 13.30 | 100.00 | | Not Required | | 13.30 | | Not Required | 13.30 | Not Required | 13.30 | 16.30 | 100.00 | | | | | | | | | | | | | | | | | |
| | | 157 | 5785 | 13.30 | | | | | 13.30 | | | | | 13.30 | | | 16.30 | | | | | | | | | | | | | | | | | | | | | |
| | | 165 | 5825 | 13.30 | | | | | 13.30 | | | | | 13.30 | | | 16.30 | | | | | | | | | | | | | | | | | | | | | |
| 802.11n-HT40 MCS0 | | 151 | 5755 | 13.30 | | 100.00 | | | Not Required | 13.30 | | | | 100.00 | | | Not Required | | 13.30 | Not Required | 13.30 | Not Required | 13.30 | 16.30 | 100.00 | | | | | | | | | | | | | |
| | | 159 | 5795 | 13.30 | | | | | | 13.30 | | | | | | | | | 13.30 | | 16.30 | | | | | | | | | | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 149 | 5745 | 13.30 | | 100.00 | | | | Not Required | | | | 13.30 | | | | | 100.00 | | Not Required | | 13.30 | Not Required | 13.30 | Not Required | 13.30 | 16.30 | 100.00 | | | | | | | | | |
| | | 157 | 5785 | 13.30 | | | | | | | | | | 13.30 | | | | | | | | | 13.30 | | 16.30 | | | | | | | | | | | | | |
| | | 165 | 5825 | 13.30 | | | | | | | | | | 13.30 | | | | | | | | | 13.30 | | 16.30 | | | | | | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 151 | 5755 | 13.30 | | 100.00 | | | | | | | | Not Required | | | | | 13.30 | | | | 100.00 | | Not Required | | 13.30 | Not Required | 13.30 | Not Required | 13.30 | 16.30 | 100.00 | | | | | |
| | | 159 | 5795 | 13.30 | | | | | | | | | | | | | | | 13.30 | | | | | | | | 13.30 | | 16.30 | | | | | | | | | |
| 802.11ac-VHT80 MCS0 | | 155 | 5775 | 13.00 | | 13.30 | | | | | | | | | | | | | 100.00 | | | | 13.20 | | | | 13.30 | | 100.00 | | 12.90 | 13.30 | 13.10 | 13.30 | 16.01 | 16.30 | 100.00 | |
| 802.11ax-HE20 MCS0 | | 149 | 5745 | 13.30 | | 100.00 | | | | | | | | | | | | | Not Required | | | | 13.30 | | | | 100.00 | | Not Required | | 13.30 | Not Required | 13.30 | Not Required | 13.30 | 16.30 | 100.00 | |
| | | 157 | 5785 | 13.30 | | | | | | | | | | | | | | | | | | | 13.30 | | | | | | | | 13.30 | | 16.30 | | | | | |
| | | 165 | 5825 | 13.30 | | | | | | | | | | | | | | | | | | | 13.30 | | | | | | | | 13.30 | | 16.30 | | | | | |
| 802.11ax-HE40 MCS0 | | 151 | 5755 | 13.30 | | 100.00 | | | | | | | | | | | | | | | | | Not Required | | | | 13.30 | | | | 100.00 | | Not Required | | 13.30 | Not Required | 13.30 | Not Required |
| | 159 | 5795 | 13.30 | 13.30 | 13.30 | | | 16.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 155 | 5775 | 13.30 | 100.00 | 13.30 | 100.00 | | 13.30 | | | 100.00 | | 13.30 | | 100.00 | | | | | | | | | | | | 13.30 | | | | 100.00 | | | | 16.30 | | 100.00 | |



<Power Table 2>

<2.4GHz WLAN>

| 2.4GHz WLAN | | | | Ant 6 | | | Ant 4 | | | Ant 4+6 | | | | | | | | |
|--------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------|
| 2.4GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | |
| | 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 11.10 | 11.40 | 100.00 | 11.00 | 11.40 | 100.00 | 11.38 | 11.40 | 11.30 | 11.40 | 14.35 | 14.40 | 100.00 | |
| 6 | | | 2437 | 11.00 | 11.40 | 11.00 | | 11.40 | 11.38 | | 11.40 | 11.30 | 11.40 | 14.35 | 14.40 | | | |
| 11 | | | 2462 | 11.10 | 11.40 | 11.00 | | 11.40 | 11.30 | | 11.40 | 11.20 | 11.40 | 14.26 | 14.40 | | | |
| 802.11g 6Mbps | | 1 | 2412 | Not Required | 11.40 | 99.25 | Not Required | 11.40 | 99.25 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 14.40 | 99.25 |
| | | 6 | 2437 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | | |
| | | 11 | 2462 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | | |
| 802.11n-HT20 MCS0 | | 1 | 2412 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 14.40 | 100.00 |
| | | 6 | 2437 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | | |
| | | 11 | 2462 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | | |
| 802.11ax-HE20 MCS0 | | 1 | 2412 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 14.40 | 100.00 |
| | | 6 | 2437 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | | |
| | | 11 | 2462 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | | |
| 802.11ax-HE40 MCS0 | | 3 | 2422 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 14.40 | 100.00 |
| | | 6 | 2437 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | | |
| | | 9 | 2452 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | | |



<5GHz WLAN>

| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|-------|------|------|------|-------|-------|--------|--------|
| 5.2GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | |
| | 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | Not Required | 8.70 | 99.00 | Not Required | 8.70 | Not Required | 8.34 | 8.70 | Not Required | 8.70 | Not Required | 11.70 | 99.00 | | | | | | | |
| 40 | | | 5200 | 8.70 | | 8.70 | | | 8.70 | | | 11.70 | | | | | | | | | | | | |
| 44 | | | 5220 | 8.70 | | 8.70 | | | 8.70 | | | 11.70 | | | | | | | | | | | | |
| 48 | | | 5240 | 8.70 | | 8.70 | | | 8.70 | | | 11.70 | | | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 36 | 5180 | 8.70 | | 100.00 | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | 100.00 |
| | | 40 | 5200 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| | | 44 | 5220 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| | | 48 | 5240 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| 802.11n-HT40 MCS0 | | 38 | 5190 | 8.70 | | 100.00 | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | 100.00 |
| | | 46 | 5230 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| 802.11ac-VHT20 MCS0 | | 36 | 5180 | 8.70 | | 100.00 | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | 100.00 |
| | | 40 | 5200 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| | | 44 | 5220 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| | | 48 | 5240 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| 802.11ac-VHT40 MCS0 | | 38 | 5190 | 8.70 | | 100.00 | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | 100.00 |
| | | 46 | 5230 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| 802.11ac-VHT80 MCS0 | | 42 | 5210 | 8.30 | | 8.70 | 100.00 | | 8.30 | | | 8.70 | | 100.00 | | 8.34 | | 8.70 | 8.40 | 8.70 | 11.38 | 11.70 | 100.00 | |
| 802.11ax-HE20 MCS0 | | 36 | 5180 | 8.70 | | 100.00 | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | 100.00 |
| | | 40 | 5200 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| | | 44 | 5220 | 8.70 | | | 8.70 | | 8.70 | | | 8.70 | | 8.70 | | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | |
| | 48 | 5240 | 8.70 | 8.70 | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 38 | 5190 | 8.70 | 100.00 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | 100.00 | | | | | | | | |
| | 46 | 5230 | 8.70 | | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 42 | 5210 | 8.70 | 100.00 | 8.70 | 100.00 | 8.70 | 100.00 | 8.70 | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | 100.00 | | | | | | | | | |



| 5.8GHz WLAN | 5GHz WLAN | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | |
|-------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|------|------|-------|--------|--------|
| | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | |
| 5.8GHz WLAN | 802.11a 6Mbps | 149 | 5745 | Not Required | 8.70 | 99.00 | Not Required | 8.70 | 99.00 | Not Required | 8.70 | Not Required | 8.70 | Not Required | 11.70 | 99.00 | | | | | |
| | | 157 | 5785 | | 8.70 | | | 8.70 | | | 8.70 | | 11.70 | | | | | | | | |
| | | 165 | 5825 | | 8.70 | | | 8.70 | | | 8.70 | | 11.70 | | | | | | | | |
| | 802.11n-HT20 MCS0 | 149 | 5745 | | 8.70 | 100.00 | | 8.70 | 8.70 | | 8.70 | | 11.70 | | | | | | | | |
| | | 157 | 5785 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | | 165 | 5825 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | 802.11n-HT40 MCS0 | 151 | 5755 | | 8.70 | 100.00 | | 8.70 | 8.70 | | 8.70 | | 11.70 | | | | | | | | |
| | | 159 | 5795 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | 802.11ac-VHT20 MCS0 | 149 | 5745 | | 8.70 | 100.00 | | 8.70 | 8.70 | | 8.70 | | 11.70 | | | | | | | | |
| | | 157 | 5785 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | | 165 | 5825 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | 802.11ac-VHT40 MCS0 | 151 | 5755 | | 8.70 | 100.00 | | 8.70 | 8.70 | | 8.70 | | 11.70 | | | | | | | | |
| | | 159 | 5795 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | 802.11ac-VHT80 MCS0 | 155 | 5775 | | 8.40 | 8.70 | | 100.00 | 8.50 | | 8.70 | | 100.00 | | 8.34 | 8.70 | 8.70 | 8.70 | 11.53 | 11.70 | 100.00 |
| | 802.11ax-HE20 MCS0 | 149 | 5745 | | 8.70 | 100.00 | | 8.70 | 8.70 | | 8.70 | | 11.70 | | | | | | | | |
| | | 157 | 5785 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | | 165 | 5825 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | 802.11ax-HE40 MCS0 | 151 | 5755 | | 8.70 | 100.00 | | 8.70 | 8.70 | | 8.70 | | 11.70 | | | | | | | | |
| | | 159 | 5795 | | 8.70 | | | 8.70 | 8.70 | | 11.70 | | | | | | | | | | |
| | 802.11ax-HE80 MCS0 | 155 | 5775 | | 8.70 | 100.00 | | 8.70 | 100.00 | | 8.70 | | 100.00 | | 8.70 | 8.70 | 8.70 | 8.70 | 11.70 | 100.00 | |



<Power Table 4>

<2.4GHz WLAN>

| 2.4GHz WLAN | | | | Ant 6 | | | Ant 4 | | | Ant 4+6 | | | | | | |
|-------------|--------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|---------------------------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | |
| | | | | | | | | | | | | | | | | Ant 6 Average power (dBm) |
| 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 20.50 | 20.80 | 100.00 | 20.30 | 20.80 | 100.00 | 20.78 | 20.80 | 20.20 | 20.80 | 23.53 | 23.80 | 100.00 |
| | | 6 | 2437 | 20.50 | 20.80 | | 20.20 | 20.80 | | 20.78 | 20.80 | 20.20 | 20.80 | 23.53 | 23.80 | |
| | | 11 | 2462 | 20.60 | 20.80 | | 20.30 | 20.80 | | 20.58 | 20.80 | 20.20 | 20.80 | 23.40 | 23.80 | |
| | 802.11g 6Mbps | 1 | 2412 | Not Required | 18.50 | 99.25 | Not Required | 18.50 | 99.25 | Not Required | 18.50 | Not Required | 18.50 | Not Required | 21.50 | 99.25 |
| | | 6 | 2437 | | 20.50 | | | 20.50 | | | 20.50 | | 23.50 | | | |
| | | 11 | 2462 | | 18.50 | | | 18.50 | | | 18.50 | | 21.50 | | | |
| | 802.11n-HT20 MCS0 | 1 | 2412 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | Not Required | 17.50 | Not Required | 20.50 | 100.00 |
| | | 6 | 2437 | | 20.50 | | | 20.50 | | | 20.50 | | 23.50 | | | |
| | | 11 | 2462 | | 17.50 | | | 17.50 | | | 17.50 | | 20.50 | | | |
| | 802.11ax-HE20 MCS0 | 1 | 2412 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | Not Required | 17.00 | Not Required | 20.00 | 100.00 |
| | | 6 | 2437 | | 20.80 | | | 20.80 | | | 20.80 | | 23.80 | | | |
| | | 11 | 2462 | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | | | |
| | 802.11ax-HE40 MCS0 | 3 | 2422 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | Not Required | 17.50 | Not Required | 20.50 | 100.00 |
| | | 6 | 2437 | | 20.50 | | | 20.50 | | | 20.50 | | 23.50 | | | |
| | | 9 | 2452 | | 16.50 | | | 16.50 | | | 16.50 | | 19.50 | | | |



<5GHz WLAN>

| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | |
|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|-------|--------------|-------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 802.11a 6Mbps | 36 | 5180 | 16.60 | 17.30 | 99.00 | 16.60 | 17.30 | 99.00 | 16.60 | 17.30 | 16.70 | 17.30 | 19.66 | 20.30 | 99.00 | | | | |
| | 40 | 5200 | 16.60 | 17.30 | | 16.60 | 17.30 | | 16.60 | 17.30 | 16.70 | 17.30 | 19.66 | 20.30 | | | | | |
| | 44 | 5220 | 16.60 | 17.30 | | 16.60 | 17.30 | | 16.60 | 17.30 | 16.70 | 17.30 | 19.66 | 20.30 | | | | | |
| | 48 | 5240 | 16.60 | 17.30 | | 16.60 | 17.30 | | 16.60 | 17.30 | 16.70 | 17.30 | 19.66 | 20.30 | | | | | |
| 802.11n-HT20 MCS0 | 36 | 5180 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | Not Required | 16.00 | Not Required | 19.00 | 100.00 | | | | |
| | 40 | 5200 | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | | | | | | | |
| | 44 | 5220 | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | | | | | | | |
| | 48 | 5240 | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | | | | | | | |
| 802.11n-HT40 MCS0 | 38 | 5190 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | Not Required | 16.00 | Not Required | 19.00 | 100.00 | | | | |
| | 46 | 5230 | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | | | | | | | |
| 802.11ac-VHT20 MCS0 | 36 | 5180 | Not Required | 17.30 | 100.00 | Not Required | 17.30 | 100.00 | Not Required | 17.30 | Not Required | 17.30 | Not Required | 20.30 | 100.00 | | | | |
| | 40 | 5200 | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | | | | | | | |
| | 44 | 5220 | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | | | | | | | |
| | 48 | 5240 | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | | | | | | | |
| 802.11ac-VHT40 MCS0 | 38 | 5190 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | 100.00 | Not Required | 16.00 | Not Required | 16.00 | Not Required | 19.00 | 100.00 | | | | |
| | 46 | 5230 | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | | | | | | | |
| 802.11ac-VHT80 MCS0 | 42 | 5210 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | Not Required | 15.00 | Not Required | 18.00 | 100.00 | | | | |
| 802.11ax-HE20 MCS0 | 36 | 5180 | | 16.50 | 100.00 | | 16.50 | 100.00 | | 16.50 | | 100.00 | | 16.50 | Not Required | 16.50 | Not Required | 19.50 | 100.00 |
| | 40 | 5200 | | 16.50 | | | 16.50 | | | 16.50 | | | | 19.50 | | | | | |
| | 44 | 5220 | | 17.00 | | | 17.00 | | | 17.00 | | | | 20.00 | | | | | |
| | 48 | 5240 | 17.00 | 17.00 | | 17.00 | 20.00 | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 38 | 5190 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | Not Required | 15.50 | Not Required | 18.50 | 100.00 | | | | |
| | 46 | 5230 | | 17.20 | | | 17.20 | | | 17.20 | | 20.20 | | | | | | | |
| 802.11ax-HE80 MCS0 | 42 | 5210 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | 100.00 | Not Required | 15.00 | Not Required | 15.00 | Not Required | 18.00 | 100.00 | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | |
|---------------------|---------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|
| 5.3GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | |
| | 802.11a 6Mbps | | 52 | 5260 | 16.80 | 17.30 | 99.00 | 16.80 | 17.30 | 99.00 | 16.80 | 17.30 | 16.80 | 17.30 | 19.81 | 20.30 | 99.00 |
| 56 | | | 5280 | 17.00 | 17.30 | 17.00 | | 17.30 | 16.78 | | 17.30 | 16.80 | 17.30 | 19.80 | 20.30 | | |
| 60 | | | 5300 | 17.00 | 17.30 | 17.00 | | 17.30 | 17.15 | | 17.30 | 17.15 | 17.30 | 20.16 | 20.30 | | |
| 64 | | | 5320 | 17.00 | 17.30 | 17.00 | | 17.30 | 17.15 | | 17.30 | 17.15 | 17.30 | 20.16 | 20.30 | | |
| 802.11n-HT20 MCS0 | | 52 | 5260 | Not Required | 17.30 | 100.00 | Not Required | 17.30 | 100.00 | Not Required | 17.30 | Not Required | Not Required | 17.30 | Not Required | 20.30 | 100.00 |
| | | 56 | 5280 | | 17.30 | | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | |
| | | 60 | 5300 | | 17.30 | | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | |
| | | 64 | 5320 | | 17.30 | | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | |
| 802.11n-HT40 MCS0 | | 54 | 5270 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | Not Required | Not Required | 17.00 | Not Required | 20.00 | 100.00 |
| | | 62 | 5310 | | 17.00 | | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | |
| 802.11ac-VHT20 MCS0 | | 52 | 5260 | Not Required | 17.30 | 100.00 | Not Required | 17.30 | 100.00 | Not Required | 17.30 | Not Required | Not Required | 17.30 | Not Required | 20.30 | 100.00 |
| | | 56 | 5280 | | 17.30 | | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | |
| | | 60 | 5300 | | 17.30 | | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | |
| | | 64 | 5320 | | 17.30 | | | 17.30 | | | 17.30 | | | 17.30 | | 20.30 | |
| 802.11ac-VHT40 MCS0 | | 54 | 5270 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | Not Required | Not Required | 17.00 | Not Required | 20.00 | 100.00 |
| | | 62 | 5310 | | 17.00 | | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | |
| 802.11ac-VHT80 MCS0 | | 58 | 5290 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | Not Required | Not Required | 15.50 | Not Required | 18.50 | 100.00 |
| | | 52 | 5260 | | 17.00 | | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | |
| 802.11ax-HE20 MCS0 | | 56 | 5280 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | Not Required | Not Required | 17.00 | Not Required | 20.00 | 100.00 |
| | | 60 | 5300 | | 17.00 | | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | |
| | | 64 | 5320 | | 17.00 | | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | |
| | | 54 | 5270 | | 17.00 | | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | |
| 802.11ax-HE40 MCS0 | | 62 | 5310 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | 100.00 | Not Required | 15.50 | Not Required | Not Required | 15.50 | Not Required | 18.50 | 100.00 |
| | | 58 | 5290 | | 15.00 | | | 15.00 | | | 15.00 | | | 15.00 | | 18.00 | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | |
|---------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------|--------|--------|--------|--------------|-------|--------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | | |
| 5.5GHz WLAN | 802.11a 6Mbps | 100 | 5500 | Not Required | 17.30 | Not Required | 17.30 | 17.30 | Not Required | 17.30 | Not Required | 17.30 | Not Required | 20.30 | 99.00 | | | | | | | | | |
| | | 116 | 5580 | | 17.30 | | 17.30 | | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | |
| | | 124 | 5620 | | 17.30 | | 17.30 | | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | |
| | | 132 | 5660 | | 17.30 | | 17.30 | | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | |
| | | 144 | 5720 | | 16.00 | | 16.00 | | | 16.00 | | 16.00 | | 19.00 | | | | | | | | | | |
| | 802.11n-HT20 MCS0 | 100 | 5500 | | 17.30 | | 100.00 | | | 17.30 | | 100.00 | | 17.30 | | 100.00 | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 20.30 | 100.00 | |
| | | 116 | 5580 | | 17.30 | | | | | 17.30 | | | | 17.30 | | | 17.30 | | 20.30 | | | | | |
| | | 124 | 5620 | | 17.30 | | | | | 17.30 | | | | 17.30 | | | 17.30 | | 20.30 | | | | | |
| | | 132 | 5660 | | 17.30 | | | | | 17.30 | | | | 17.30 | | | 17.30 | | 20.30 | | | | | |
| | | 144 | 5720 | | 17.30 | | | | | 17.30 | | | | 17.30 | | | 17.30 | | 20.30 | | | | | |
| | 802.11n-HT40 MCS0 | 102 | 5510 | | Not Required | | 17.00 | | | 100.00 | | 17.00 | | 100.00 | | 17.00 | 100.00 | 17.00 | 100.00 | 17.00 | Not Required | 20.00 | 100.00 | |
| | | 110 | 5550 | | | | 17.30 | | | | | 17.30 | | | | 17.30 | | 17.30 | | 20.30 | | | | |
| | | 126 | 5630 | | | | 17.30 | | | | | 17.30 | | | | 17.30 | | 17.30 | | 20.30 | | | | |
| | | 134 | 5670 | | | | 17.30 | | | | | 17.30 | | | | 17.30 | | 17.30 | | 20.30 | | | | |
| | 802.11ac-VHT20 MCS0 | 100 | 5500 | | Not Required | | 17.30 | | | 100.00 | | 17.30 | | 100.00 | | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 20.30 | 100.00 |
| | | 116 | 5580 | | | | 17.30 | | | | | 17.30 | | | | 17.30 | | 17.30 | | 20.30 | | | | |
| | | 124 | 5620 | | | | 17.30 | | | | | 17.30 | | | | 17.30 | | 17.30 | | 20.30 | | | | |
| | | 132 | 5660 | | | | 17.30 | | | | | 17.30 | | | | 17.30 | | 17.30 | | 20.30 | | | | |
| | | 144 | 5720 | | | | 17.30 | | | | | 17.30 | | | | 17.30 | | 17.30 | | 20.30 | | | | |
| | 802.11ac-VHT40 MCS0 | 102 | 5510 | | Not Required | | 17.00 | | | 100.00 | | 17.00 | | 100.00 | | 17.00 | 100.00 | 17.00 | 100.00 | 17.00 | 100.00 | 17.00 | 20.00 | 100.00 |
| 110 | | 5550 | 17.30 | 17.30 | | 17.30 | 17.30 | 20.30 | | | | | | | | | | | | | | | | |
| 126 | | 5630 | 17.30 | 17.30 | | 17.30 | 17.30 | 20.30 | | | | | | | | | | | | | | | | |
| 134 | | 5670 | 17.00 | 17.00 | | 17.00 | 17.00 | 20.00 | | | | | | | | | | | | | | | | |
| 142 | | 5710 | 17.00 | 17.00 | | 17.00 | 17.00 | 20.00 | | | | | | | | | | | | | | | | |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 15.90 | 100.00 | 15.90 | 100.00 | 15.90 | 100.00 | 15.90 | 100.00 | 15.90 | 100.00 | 15.90 | 18.91 | 20.30 | 100.00 | | | | | | | | |
| | 122 | 5610 | 16.50 | | 16.80 | | 16.80 | | 16.80 | | 16.83 | | 16.83 | | | | 19.83 | | | | | | | |
| | 138 | 5690 | 16.50 | | 16.60 | | 16.60 | | 16.60 | | 15.90 | | 15.90 | | | | 18.91 | | | | | | | |
| 802.11ax-HE20 MCS0 | 100 | 5500 | Not Required | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 20.30 | 100.00 | | | | | | | | |
| | 116 | 5580 | | 17.30 | | 17.30 | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | | | |
| | 124 | 5620 | | 17.30 | | 17.30 | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | | | |
| | 132 | 5660 | | 17.30 | | 17.30 | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | | | |
| | 144 | 5720 | | 16.50 | | 16.50 | | 16.50 | | 16.50 | | 19.50 | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 102 | 5510 | Not Required | 16.50 | 100.00 | 16.50 | 100.00 | 16.50 | 100.00 | 16.50 | 100.00 | 16.50 | 100.00 | 16.50 | 19.50 | 100.00 | | | | | | | | |
| | 110 | 5550 | | 17.30 | | 17.30 | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | | | |
| | 126 | 5630 | | 17.30 | | 17.30 | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | | | |
| | 134 | 5670 | | 17.30 | | 17.30 | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 106 | 5530 | Not Required | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 100.00 | 17.30 | 20.30 | 100.00 | | | | | | | | |
| | 122 | 5610 | | 17.30 | | 17.30 | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | | | |
| | 138 | 5690 | | 17.30 | | 17.30 | | 17.30 | | 17.30 | | 20.30 | | | | | | | | | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------------|--------------|--------------|--------------|--------------|--------|--------------|--------|--------|--------------|--------------|--------------|--------|--------------|--------|
| 5.8GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | | | | | | | | | |
| | 5.8GHz WLAN | 802.11a 6Mbps | 149 | 5745 | Not Required | 17.30 | 99.00 | Not Required | 17.30 | 99.00 | Not Required | 17.30 | Not Required | 17.30 | Not Required | 20.30 | 99.00 | | | | | | | | | | | | | | | |
| 157 | | | 5785 | 17.30 | | 17.30 | | | 17.30 | | | 20.30 | | | | | | | | | | | | | | | | | | | | |
| 165 | | | 5825 | 17.30 | | 17.30 | | | 17.30 | | | 20.30 | | | | | | | | | | | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 149 | 5745 | 17.30 | | 100.00 | Not Required | | 17.30 | 100.00 | | Not Required | | 17.30 | | 100.00 | | Not Required | 17.30 | Not Required | 20.30 | 100.00 | | | | | | | | | | |
| | | 157 | 5785 | 17.30 | | | | | 17.30 | | | | | 17.30 | | | | | 20.30 | | | | | | | | | | | | | |
| | | 165 | 5825 | 17.30 | | | | | 17.30 | | | | | 17.30 | | | | | 20.30 | | | | | | | | | | | | | |
| 802.11n-HT40 MCS0 | | 151 | 5755 | 16.60 | | 17.30 | | | 100.00 | 16.60 | | | | 17.30 | | 100.00 | | | 16.60 | 17.30 | 16.60 | | 17.30 | 19.61 | 20.30 | 100.00 | | | | | | |
| | | 159 | 5795 | Not Required | | 17.30 | | | | Not Required | | | | 17.30 | | | | | Not Required | 17.30 | Not Required | | 17.30 | Not Required | 17.30 | | Not Required | 20.30 | | | | |
| 802.11ac-VHT20 MCS0 | | 149 | 5745 | | | 17.30 | | | | | | | | 100.00 | | | | | | Not Required | | | 17.30 | | 100.00 | | | Not Required | 17.30 | 100.00 | Not Required | 17.30 |
| | | 157 | 5785 | | 17.30 | 17.30 | | 17.30 | | | 20.30 | | | | | | | | | | | | | | | | | | | | | |
| | | 165 | 5825 | | 17.30 | 17.30 | | 17.30 | | | 20.30 | | | | | | | | | | | | | | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 151 | 5755 | | 17.30 | 100.00 | | 100.00 | | | 17.30 | | 100.00 | 100.00 | 17.30 | | 100.00 | | | | | | 100.00 | | 17.30 | | | | Not Required | 20.30 | | |
| | | 159 | 5795 | | 17.30 | | 17.30 | | | | 17.30 | 20.30 | | | | | | | | | | | | | | | | | | | | |
| 802.11ac-VHT80 MCS0 | | 155 | 5775 | | 16.70 | 17.30 | 16.70 | | | | 17.30 | 100.00 | 16.70 | | 17.30 | | 16.80 | 17.30 | | | | 19.76 | | | 20.30 | | | | 100.00 | | | |
| 802.11ax-HE20 MCS0 | | 149 | 5745 | | Not Required | 17.30 | 100.00 | | | | Not Required | 17.30 | 100.00 | | Not Required | | 17.30 | 100.00 | | | | Not Required | | | 17.30 | | | | Not Required | 20.30 | | 100.00 |
| | | 157 | 5785 | | | 17.30 | | | | | | 17.30 | | | | | 17.30 | | | | | | | | 20.30 | | | | | | | |
| | | 165 | 5825 | 17.30 | | 17.30 | | | | 17.30 | | 20.30 | | | | | | | | | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | | 151 | 5755 | 17.30 | | 100.00 | 100.00 | | | 17.30 | | 100.00 | 100.00 | | | | 17.30 | 100.00 | 100.00 | 17.30 | Not Required | | | 20.30 | | | | | | | | |
| | 159 | 5795 | 17.30 | 17.30 | | | | | | 17.30 | | | | | | | 20.30 | | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 155 | 5775 | 17.30 | 100.00 | | 17.30 | | | | 100.00 | | 17.30 | | | | | 100.00 | 17.30 | | 100.00 | 17.30 | | | 100.00 | 20.30 | | 100.00 | | | | | |



<Power Table 5>

<2.4GHz WLAN>

| 2.4GHz WLAN | | | | Ant 6 | | | Ant 4 | | | Ant 4+6 | | | | | | |
|--------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|
| 2.4GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| | 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 20.50 | 20.80 | 100.00 | 20.30 | 20.80 | 100.00 | 20.80 | 20.80 | 20.21 | 20.80 | 23.53 | 23.80 |
| 6 | | | 2437 | 20.50 | 20.80 | 20.20 | | 20.80 | 20.80 | | 20.21 | 20.80 | 23.53 | 23.80 | | |
| 11 | | | 2462 | 20.60 | 20.80 | 20.30 | | 20.80 | 20.58 | | 20.80 | 20.20 | 20.80 | 23.40 | 23.80 | |
| 802.11g 6Mbps | | 1 | 2412 | Not Required | 18.50 | 99.25 | Not Required | 18.50 | 99.25 | Not Required | 18.50 | Not Required | 18.50 | Not Required | 21.50 | 99.25 |
| | | 6 | 2437 | | 20.50 | | | 20.50 | | | 20.50 | | 23.50 | | | |
| | | 11 | 2462 | | 18.50 | | | 18.50 | | | 18.50 | | 21.50 | | | |
| 802.11n-HT20 MCS0 | | 1 | 2412 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | Not Required | 17.50 | Not Required | 20.50 | 100.00 |
| | | 6 | 2437 | | 20.50 | | | 20.50 | | | 20.50 | | 23.50 | | | |
| | | 11 | 2462 | | 17.50 | | | 17.50 | | | 17.50 | | 20.50 | | | |
| 802.11ax-HE20 MCS0 | | 1 | 2412 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | 100.00 | Not Required | 17.00 | Not Required | 17.00 | Not Required | 20.00 | 100.00 |
| | | 6 | 2437 | | 20.80 | | | 20.80 | | | 20.80 | | 23.80 | | | |
| | | 11 | 2462 | | 17.00 | | | 17.00 | | | 17.00 | | 20.00 | | | |
| 802.11ax-HE40 MCS0 | | 3 | 2422 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | 100.00 | Not Required | 17.50 | Not Required | 17.50 | Not Required | 20.50 | 100.00 |
| | | 6 | 2437 | | 20.50 | | | 20.50 | | | 20.50 | | 23.50 | | | |
| | | 9 | 2452 | | 16.50 | | | 16.50 | | | 16.50 | | 19.50 | | | |



<5GHz WLAN>

| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | |
|--------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | |
| 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | Not Required | 14.80 | 99.00 | Not Required | 14.80 | 99.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | |
| | | 40 | 5200 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | | 44 | 5220 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | | 48 | 5240 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | 802.11n-HT20 MCS0 | 36 | 5180 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | |
| | | 40 | 5200 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | | 44 | 5220 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | | 48 | 5240 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | 802.11n-HT40 MCS0 | 38 | 5190 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | |
| | | 46 | 5230 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | 802.11ac-VHT20 MCS0 | 36 | 5180 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | |
| | | 40 | 5200 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | | 44 | 5220 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | | 48 | 5240 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | 802.11ac-VHT40 MCS0 | 38 | 5190 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | |
| | | 46 | 5230 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | 802.11ac-VHT80 MCS0 | 42 | 5210 | 14.50 | 14.80 | 100.00 | 14.70 | 14.80 | 100.00 | 14.60 | 14.80 | 14.80 | 14.80 | 17.71 | 17.80 | 100.00 |
| | 802.11ax-HE20 MCS0 | 36 | 5180 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | |
| | | 40 | 5200 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| | | 44 | 5220 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | |
| 48 | | 5240 | 14.80 | | 14.80 | | | 14.80 | | | 17.80 | | | | | |
| 802.11ax-HE40 MCS0 | 38 | 5190 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | | |
| | 46 | 5230 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | | |
| 802.11ax-HE80 MCS0 | 42 | 5210 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 100.00 | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------------|-------|--------------|-------|--------|
| 5.3GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | |
| | 5.3GHz WLAN | 802.11a 6Mbps | 52 | 5260 | Not Required | 14.80 | 99.00 | Not Required | 14.80 | 99.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 99.00 | | | | |
| 56 | | | 5280 | 14.80 | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | | |
| 60 | | | 5300 | 14.80 | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | | |
| 64 | | | 5320 | 14.80 | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 52 | 5260 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | Not Required | | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 100.00 |
| | | 56 | 5280 | 14.80 | | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | |
| | | 60 | 5300 | 14.80 | | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | |
| | | 64 | 5320 | 14.80 | | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | |
| 802.11n-HT40 MCS0 | | 54 | 5270 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | Not Required | | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 100.00 |
| | | 62 | 5310 | 14.80 | | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 52 | 5260 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | Not Required | | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 100.00 |
| | | 56 | 5280 | 14.80 | | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | |
| | | 60 | 5300 | 14.80 | | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | |
| | | 64 | 5320 | 14.80 | | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 54 | 5270 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | Not Required | | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 100.00 |
| | | 62 | 5310 | 14.80 | | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | |
| 802.11ac-VHT80 MCS0 | 58 | 5290 | 14.40 | 14.80 | 100.00 | 14.60 | 14.80 | 100.00 | 14.50 | 14.80 | 14.70 | 14.80 | 17.61 | 17.80 | 100.00 | | | | | | |
| 802.11ax-HE20 MCS0 | 52 | 5260 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 100.00 | | | | |
| | 56 | 5280 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | | | | | | | |
| | 60 | 5300 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | | | | | | | |
| | 64 | 5320 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 54 | 5270 | | 14.80 | 100.00 | | 14.80 | 100.00 | | 14.80 | 100.00 | 14.80 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 100.00 | | |
| | 62 | 5310 | | 14.80 | | | 14.80 | | | 14.80 | | 17.80 | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 58 | 5290 | | 14.80 | 100.00 | | 100.00 | 14.80 | | 100.00 | 100.00 | 14.80 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 100.00 | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | | | | | | | | |
| 5.5GHz WLAN | 802.11a 6Mbps | 100 | 5500 | Not Required | 14.80 | 100.00 | Not Required | 14.80 | 14.80 | 14.80 | Not Required | 14.80 | Not Required | 14.80 | 17.80 | 99.00 | | | | | | | | | | | | | | |
| | | 116 | 5580 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | |
| | | 124 | 5620 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | |
| | | 132 | 5660 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | |
| | | 144 | 5720 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | |
| | 802.11n-HT20 MCS0 | 100 | 5500 | | | | | | | | | | | | | | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 100.00 |
| | | 116 | 5580 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 124 | 5620 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 132 | 5660 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 144 | 5720 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | 802.11n-HT40 MCS0 | 102 | 5510 | | | | | | | | | | | | | | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 100.00 |
| | | 110 | 5550 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 126 | 5630 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 134 | 5670 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 142 | 5710 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | 802.11ac-VHT20 MCS0 | 100 | 5500 | | | | | | | | | | | | | | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 100.00 |
| | | 116 | 5580 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 124 | 5620 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 132 | 5660 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| | | 144 | 5720 | | | | | | | | | | | | | | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 |
| 802.11ac-VHT40 MCS0 | 102 | 5510 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 100.00 | | | | | | | | | | | | | | |
| | 110 | 5550 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 126 | 5630 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 134 | 5670 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 142 | 5710 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 14.60 | 14.80 | 100.00 | 14.30 | 14.80 | 100.00 | 14.70 | 14.80 | 14.80 | 14.80 | 17.76 | 14.80 | 17.80 | 100.00 | | | | | | | | | | | | | | |
| | 122 | 5610 | 14.40 | 14.80 | 14.30 | 14.80 | 14.70 | 14.80 | 14.70 | 14.80 | 14.70 | 14.80 | 17.71 | 14.80 | 17.80 | 100.00 | | | | | | | | | | | | | | |
| | 138 | 5690 | 14.50 | 14.80 | 14.50 | 14.80 | 14.70 | 14.80 | 14.70 | 14.80 | 14.70 | 14.80 | 17.71 | 14.80 | 17.80 | 100.00 | | | | | | | | | | | | | | |
| 802.11ax-HE20 MCS0 | 100 | 5500 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 100.00 | | | | | | | | | | | | | | |
| | 116 | 5580 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 124 | 5620 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 132 | 5660 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 144 | 5720 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 102 | 5510 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 100.00 | | | | | | | | | | | | | | |
| | 110 | 5550 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 126 | 5630 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 134 | 5670 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 142 | 5710 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 106 | 5530 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 100.00 | | | | | | | | | | | | | | |
| | 122 | 5610 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |
| | 138 | 5690 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | | | | | | | | | | | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------------|-------|--------|--------|--------|
| 5.8GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | |
| | 5.8GHz WLAN | 802.11a 6Mbps | 149 | 5745 | Not Required | 14.80 | 99.00 | Not Required | 14.80 | 99.00 | Not Required | 14.80 | Not Required | 14.80 | Not Required | 17.80 | 99.00 | | | | | |
| 157 | | | 5785 | 14.80 | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | | | |
| 165 | | | 5825 | 14.80 | | 14.80 | | | 14.80 | | | 17.80 | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 149 | 5745 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | | 100.00 | | 14.80 | | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 17.80 | 100.00 |
| | | 157 | 5785 | 14.80 | | | 14.80 | | | 14.80 | | | | 17.80 | | | | | | | | |
| | | 165 | 5825 | 14.80 | | | 14.80 | | | 14.80 | | | | 17.80 | | | | | | | | |
| 802.11n-HT40 MCS0 | | 151 | 5755 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | | 100.00 | | 14.80 | | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 17.80 | 100.00 |
| | | 159 | 5795 | 14.80 | | | 14.80 | | | 14.80 | | | | 17.80 | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 149 | 5745 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | | 100.00 | | 14.80 | | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 17.80 | 100.00 |
| | | 157 | 5785 | 14.80 | | | 14.80 | | | 14.80 | | | | 17.80 | | | | | | | | |
| | | 165 | 5825 | 14.80 | | | 14.80 | | | 14.80 | | | | 17.80 | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 151 | 5755 | 14.80 | | 100.00 | 14.80 | | 100.00 | 14.80 | | 100.00 | | 14.80 | | 100.00 | 14.80 | 100.00 | 14.80 | 100.00 | 17.80 | 100.00 |
| | | 159 | 5795 | 14.80 | | | 14.80 | | | 14.80 | | | | 17.80 | | | | | | | | |
| 802.11ac-VHT80 MCS0 | | 155 | 5775 | 14.50 | | 14.80 | 100.00 | | 14.70 | 14.80 | | 100.00 | | 14.40 | | 14.80 | 14.70 | 14.80 | 17.56 | 14.80 | 100.00 | 100.00 |
| 802.11ax-HE20 MCS0 | | 149 | 5745 | Not Required | | 14.80 | 100.00 | | Not Required | 14.80 | | 100.00 | | Not Required | | 14.80 | 100.00 | Not Required | 14.80 | 100.00 | 17.80 | 100.00 |
| | | 157 | 5785 | | | 14.80 | | | | 14.80 | | | | | | 14.80 | | | 17.80 | | | |
| | | 165 | 5825 | | | 14.80 | | | | 14.80 | | | | | | 14.80 | | | 17.80 | | | |
| 802.11ax-HE40 MCS0 | | 151 | 5755 | | | 14.80 | 100.00 | | | 14.80 | | 100.00 | | | | 14.80 | 100.00 | | 14.80 | 100.00 | 14.80 | 100.00 |
| | 159 | 5795 | 14.80 | | 14.80 | 14.80 | | 17.80 | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 155 | 5775 | 14.80 | | 100.00 | 14.80 | 100.00 | 14.80 | | 100.00 | 14.80 | 100.00 | 14.80 | | 100.00 | 14.80 | 100.00 | | 17.80 | 100.00 | | |



<Power Table 6>

<2.4GHz WLAN>

| 2.4GHz WLAN | | | | Ant 6 | | | Ant 4 | | | Ant 4+6 | | | | | | | |
|--------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|
| 2.4GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | |
| | 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 13.70 | 14.00 | 100.00 | 13.70 | 14.00 | 100.00 | 13.96 | 14.00 | 13.90 | 14.00 | 16.94 | 17.00 | 100.00 |
| 6 | | | 2437 | 13.70 | 14.00 | 13.60 | | 14.00 | 13.96 | | 14.00 | 13.90 | 14.00 | 16.94 | 17.00 | | |
| 11 | | | 2462 | 13.70 | 14.00 | 13.60 | | 14.00 | 13.91 | | 14.00 | 13.50 | 14.00 | 16.72 | 17.00 | | |
| 802.11g 6Mbps | | 1 | 2412 | Not Required | 14.00 | 99.25 | Not Required | 14.00 | 99.25 | Not Required | 14.00 | Not Required | Not Required | 14.00 | Not Required | 17.00 | 99.25 |
| | | 6 | 2437 | | 14.00 | | | 14.00 | | | 14.00 | | | 17.00 | | | |
| | | 11 | 2462 | | 14.00 | | | 14.00 | | | 14.00 | | | 17.00 | | | |
| 802.11n-HT20 MCS0 | | 1 | 2412 | Not Required | 14.00 | 100.00 | Not Required | 14.00 | 100.00 | Not Required | 14.00 | Not Required | Not Required | 14.00 | Not Required | 17.00 | 100.00 |
| | | 6 | 2437 | | 14.00 | | | 14.00 | | | 14.00 | | | 17.00 | | | |
| | | 11 | 2462 | | 14.00 | | | 14.00 | | | 14.00 | | | 17.00 | | | |
| 802.11ax-HE20 MCS0 | | 1 | 2412 | Not Required | 14.00 | 100.00 | Not Required | 14.00 | 100.00 | Not Required | 14.00 | Not Required | Not Required | 14.00 | Not Required | 17.00 | 100.00 |
| | | 6 | 2437 | | 14.00 | | | 14.00 | | | 14.00 | | | 17.00 | | | |
| | | 11 | 2462 | | 14.00 | | | 14.00 | | | 14.00 | | | 17.00 | | | |
| 802.11ax-HE40 MCS0 | | 3 | 2422 | Not Required | 14.00 | 100.00 | Not Required | 14.00 | 100.00 | Not Required | 14.00 | Not Required | Not Required | 14.00 | Not Required | 17.00 | 100.00 |
| | | 6 | 2437 | | 14.00 | | | 14.00 | | | 14.00 | | | 17.00 | | | |
| | | 9 | 2452 | | 14.00 | | | 14.00 | | | 14.00 | | | 17.00 | | | |



<5GHz WLAN>

| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------------|-------|--------|--------|--------|
| 5.2GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | |
| | 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | Not Required | 10.90 | 99.00 | Not Required | 10.90 | 99.00 | Not Required | 10.90 | Not Required | 10.90 | Not Required | 13.90 | 99.00 | | | | | |
| 40 | | | 5200 | 10.90 | | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | |
| 44 | | | 5220 | 10.90 | | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | |
| 48 | | | 5240 | 10.90 | | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 36 | 5180 | 10.90 | | 100.00 | 10.90 | | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 40 | 5200 | 10.90 | | | 10.90 | | | 10.90 | | | | 13.90 | | | | | | | | |
| | | 44 | 5220 | 10.90 | | | 10.90 | | | 10.90 | | | | 13.90 | | | | | | | | |
| | | 48 | 5240 | 10.90 | | | 10.90 | | | 10.90 | | | | 13.90 | | | | | | | | |
| 802.11n-HT40 MCS0 | | 38 | 5190 | 10.90 | | 100.00 | 10.90 | | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 46 | 5230 | 10.90 | | | 10.90 | | | 10.90 | | | | 13.90 | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 36 | 5180 | 10.90 | | 100.00 | 10.90 | | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 40 | 5200 | 10.90 | | | 10.90 | | | 10.90 | | | | 13.90 | | | | | | | | |
| | | 44 | 5220 | 10.90 | | | 10.90 | | | 10.90 | | | | 13.90 | | | | | | | | |
| | | 48 | 5240 | 10.90 | | | 10.90 | | | 10.90 | | | | 13.90 | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 38 | 5190 | 10.90 | | 100.00 | 10.90 | | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 46 | 5230 | 10.90 | | | 10.90 | | | 10.90 | | | | 13.90 | | | | | | | | |
| 802.11ac-VHT80 MCS0 | | 42 | 5210 | 10.60 | | 10.90 | 100.00 | | 10.70 | 10.90 | | 100.00 | | 10.84 | | 10.90 | 10.88 | 10.90 | 13.87 | 13.90 | 100.00 | |
| 802.11ax-HE20 MCS0 | | 36 | 5180 | Not Required | | 10.90 | 100.00 | | Not Required | 10.90 | | 100.00 | | Not Required | | 10.90 | 100.00 | Not Required | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 40 | 5200 | | | 10.90 | | | | 10.90 | | | | | | 10.90 | | | 13.90 | | | |
| | | 44 | 5220 | | | 10.90 | | | | 10.90 | | | | | | 10.90 | | | 13.90 | | | |
| | 48 | 5240 | 10.90 | | 10.90 | 10.90 | | 13.90 | | | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 38 | 5190 | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | | 100.00 | 10.90 | 100.00 | | 13.90 | 100.00 | | |
| | 46 | 5230 | 10.90 | | | 10.90 | | 10.90 | | | 13.90 | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 42 | 5210 | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | | 100.00 | 13.90 | 100.00 | | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|-------|--------|-------|--------|-------|--------|
| 5.3GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | |
| | 5.3GHz WLAN | 802.11a 6Mbps | 52 | 5260 | Not Required | 10.90 | 99.00 | Not Required | 10.90 | 99.00 | Not Required | 10.90 | Not Required | 10.90 | Not Required | 13.90 | 99.00 | | | | | |
| 56 | | | 5280 | 10.90 | | 10.90 | | | 13.90 | | | | | | | | | | | | | |
| 60 | | | 5300 | 10.90 | | 10.90 | | | 13.90 | | | | | | | | | | | | | |
| 64 | | | 5320 | 10.90 | | 10.90 | | | 13.90 | | | | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 52 | 5260 | 10.90 | | 100.00 | 10.90 | | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 56 | 5280 | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| | | 60 | 5300 | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| | | 64 | 5320 | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| 802.11n-HT40 MCS0 | | 54 | 5270 | 10.90 | | 100.00 | 10.90 | | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 62 | 5310 | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 52 | 5260 | 10.90 | | 100.00 | 10.90 | | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 56 | 5280 | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| | | 60 | 5300 | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| | | 64 | 5320 | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 54 | 5270 | 10.90 | | 100.00 | 10.90 | | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 |
| | | 62 | 5310 | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| 802.11ac-VHT80 MCS0 | 58 | 5290 | 10.70 | 10.90 | 100.00 | 10.60 | 10.90 | 100.00 | 10.82 | 10.90 | 10.90 | 10.90 | 13.87 | 10.90 | 100.00 | 100.00 | | | | | | |
| 802.11ax-HE20 MCS0 | 52 | 5260 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 | | | | | | |
| | 56 | 5280 | 10.90 | | 10.90 | | 13.90 | | | | | | | | | | | | | | | |
| | 60 | 5300 | 10.90 | | 10.90 | | 13.90 | | | | | | | | | | | | | | | |
| | 64 | 5320 | 10.90 | | 10.90 | | 13.90 | | | | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 54 | 5270 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 | | | | | | |
| | 62 | 5310 | 10.90 | | 10.90 | | 13.90 | | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 58 | 5290 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 | | | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | | |
|---------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|-------|--------|-------|--------------|-------|--------------|-------|--------------|-------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | | | |
| 5.5GHz WLAN | 802.11a 6Mbps | 100 | 5500 | Not Required | 10.90 | Not Required | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 13.90 | 99.00 | | | | | | | | | | |
| | | 116 | 5580 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 124 | 5620 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 132 | 5660 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 144 | 5720 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | 802.11n-HT20 MCS0 | 100 | 5500 | | 10.90 | | 100.00 | | | | | | | | | 10.90 | 100.00 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 13.90 | 100.00 |
| | | 116 | 5580 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 124 | 5620 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 132 | 5660 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 144 | 5720 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | 802.11n-HT40 MCS0 | 102 | 5510 | | 10.90 | | 100.00 | | | | | | | | | 10.90 | 100.00 | 10.90 | Not Required | 10.90 | Not Required | 10.90 | Not Required | 13.90 | 100.00 |
| | | 110 | 5550 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 126 | 5630 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 134 | 5670 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | 802.11ac-VHT20 MCS0 | 100 | 5500 | | 10.90 | | 100.00 | | | | | | | | | 10.90 | 100.00 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 13.90 | 100.00 |
| | | 116 | 5580 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 124 | 5620 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 132 | 5660 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | | 144 | 5720 | | 10.90 | | | | | | | | | | | | | | | | | | | | |
| | 802.11ac-VHT40 MCS0 | 102 | 5510 | | 10.90 | | 100.00 | | | | | | | | | 10.90 | 100.00 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 13.90 | 100.00 |
| 110 | | 5550 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| 126 | | 5630 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| 134 | | 5670 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| 142 | | 5710 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 10.60 | 100.00 | 10.60 | 100.00 | 10.30 | 10.90 | 10.70 | 10.90 | 13.51 | 13.90 | 100.00 | | | | | | | | | | | | |
| | 122 | 5610 | 10.40 | | 10.70 | | 10.50 | | 13.61 | | | | | | | | | | | | | | | | |
| | 138 | 5690 | 10.70 | | 10.70 | | 10.70 | | 13.51 | | | | | | | | | | | | | | | | |
| 802.11ax-HE20 MCS0 | 100 | 5500 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 13.90 | 100.00 | | | | | | | | | | | |
| | 116 | 5580 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| | 124 | 5620 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| | 132 | 5660 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| | 144 | 5720 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 102 | 5510 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | Not Required | 10.90 | Not Required | 10.90 | Not Required | 13.90 | 100.00 | | | | | | | | | | | |
| | 110 | 5550 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| | 126 | 5630 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| | 134 | 5670 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 106 | 5530 | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 13.90 | 100.00 | | | | | | | | | | | |
| | 122 | 5610 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |
| | 138 | 5690 | 10.90 | | | | | | | | | | | | | | | | | | | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------|
| 5.8GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | |
| | 5.8GHz WLAN | 802.11a 6Mbps | 149 | 5745 | Not Required | 10.90 | 99.00 | Not Required | 10.90 | 100.00 | Not Required | 10.90 | Not Required | 10.90 | Not Required | 13.90 | 99.00 | | | | | | | |
| 157 | | | 5785 | 10.90 | | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| 165 | | | 5825 | 10.90 | | 10.90 | | | 10.90 | | | 13.90 | | | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 149 | 5745 | 10.90 | | 100.00 | 10.90 | | 100.00 | | | 10.90 | | 100.00 | | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 | |
| | | 157 | 5785 | 10.90 | | | 10.90 | | | | | 10.90 | | | | 13.90 | | | | | | | | |
| | | 165 | 5825 | 10.90 | | | 10.90 | | | | | 10.90 | | | | 13.90 | | | | | | | | |
| 802.11n-HT40 MCS0 | | 151 | 5755 | 10.90 | | 100.00 | 10.90 | | 100.00 | | | 10.90 | | 100.00 | | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 | |
| | | 159 | 5795 | 10.90 | | | 10.90 | | | | | 10.90 | | | | 13.90 | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 149 | 5745 | 10.90 | | 100.00 | 10.90 | | 100.00 | | | 10.90 | | 100.00 | | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 | |
| | | 157 | 5785 | 10.90 | | | 10.90 | | | | | 10.90 | | | | 13.90 | | | | | | | | |
| | | 165 | 5825 | 10.90 | | | 10.90 | | | | | 10.90 | | | | 13.90 | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 151 | 5755 | 10.90 | | 100.00 | 10.90 | | 100.00 | | | 10.90 | | 100.00 | | 10.90 | 100.00 | 10.90 | 100.00 | 10.90 | 100.00 | 13.90 | 100.00 | |
| | | 159 | 5795 | 10.90 | | | 10.90 | | | | | 10.90 | | | | 13.90 | | | | | | | | |
| 802.11ac-VHT80 MCS0 | | 155 | 5775 | 10.50 | | 10.90 | 100.00 | | 10.70 | | | 10.90 | | 100.00 | | 10.40 | 10.90 | 10.70 | 10.90 | 13.56 | 10.90 | 100.00 | 100.00 | |
| 802.11ax-HE20 MCS0 | | 149 | 5745 | Not Required | | 10.90 | 100.00 | | Not Required | | | 10.90 | | 100.00 | | Not Required | 10.90 | Not Required | 10.90 | Not Required | 10.90 | Not Required | 13.90 | 100.00 |
| | | 157 | 5785 | | | 10.90 | | | | | | 10.90 | | | | | 10.90 | | 13.90 | | | | | |
| | | 165 | 5825 | | | 10.90 | | | | | | 10.90 | | | | | 10.90 | | 13.90 | | | | | |
| 802.11ax-HE40 MCS0 | | 151 | 5755 | | | 10.90 | 100.00 | | | | | 10.90 | | | | | 100.00 | | 10.90 | | 100.00 | | 10.90 | 100.00 |
| | 159 | 5795 | 10.90 | | 10.90 | 10.90 | | 13.90 | | | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 155 | 5775 | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | | 100.00 | 10.90 | 100.00 | 10.90 | | 100.00 | | 10.90 | | 100.00 | | 13.90 | | 100.00 | |



<Power Table 7>

<2.4GHz WLAN>

| 2.4GHz WLAN | | | | Ant 6 | | | Ant 4 | | | Ant 4+6 | | | | | | | |
|-------------|--------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 4 Average power (dBm) | Tune-Up Limit | Ant 4+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | |
| | | | | | | | | | | | | | | | | | |
| 2.4GHz WLAN | 802.11b 1Mbps | 1 | 2412 | 11.10 | 11.40 | 100.00 | 11.00 | 11.40 | 100.00 | 11.34 | 11.40 | 11.34 | 11.40 | 14.35 | 14.40 | 100.00 | |
| | | 6 | 2437 | 11.00 | 11.40 | | 11.00 | 11.40 | | 11.34 | 11.40 | 11.34 | 11.40 | 14.35 | 14.40 | | |
| | | 11 | 2462 | 11.10 | 11.40 | | 11.00 | 11.40 | | 11.22 | 11.40 | 11.28 | 11.40 | 14.26 | 14.40 | | |
| | 802.11g 6Mbps | 1 | 2412 | Not Required | 11.40 | 99.25 | Not Required | 11.40 | 99.25 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 11.40 | 14.40 | 99.25 |
| | | 6 | 2437 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | |
| | | 11 | 2462 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | |
| | 802.11n-HT20 MCS0 | 1 | 2412 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 11.40 | 14.40 | 100.00 |
| | | 6 | 2437 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | |
| | | 11 | 2462 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | |
| | 802.11ax-HE20 MCS0 | 1 | 2412 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 11.40 | 14.40 | 100.00 |
| | | 6 | 2437 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | |
| | | 11 | 2462 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | |
| | 802.11ax-HE40 MCS0 | 3 | 2422 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | 100.00 | Not Required | 11.40 | Not Required | 11.40 | Not Required | 11.40 | 14.40 | 100.00 |
| | | 6 | 2437 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | |
| | | 9 | 2452 | | 11.40 | | | 11.40 | | | 11.40 | | 11.40 | | 14.40 | | |



<5GHz WLAN>

| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|-------|--------|-------|--------|--------|--------|
| 5.2GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | |
| | 5.2GHz WLAN | 802.11a 6Mbps | 36 | 5180 | Not Required | 8.30 | 99.00 | Not Required | 8.30 | 99.00 | Not Required | 8.30 | Not Required | 8.30 | Not Required | 11.30 | 99.00 | | | | | |
| 40 | | | 5200 | 8.30 | | 8.30 | | | 8.30 | | | 11.30 | | | | | | | | | | |
| 44 | | | 5220 | 8.30 | | 8.30 | | | 8.30 | | | 11.30 | | | | | | | | | | |
| 48 | | | 5240 | 8.30 | | 8.30 | | | 8.30 | | | 11.30 | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 36 | 5180 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 40 | 5200 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 44 | 5220 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 48 | 5240 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| 802.11n-HT40 MCS0 | | 38 | 5190 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 46 | 5230 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 36 | 5180 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 40 | 5200 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 44 | 5220 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 48 | 5240 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 38 | 5190 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 46 | 5230 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| 802.11ac-VHT80 MCS0 | | 42 | 5210 | 7.90 | | 8.30 | 100.00 | | 7.90 | 8.30 | | 100.00 | | 7.40 | | 8.30 | 8.30 | 8.30 | 10.88 | 11.30 | 100.00 | |
| 802.11ax-HE20 MCS0 | | 36 | 5180 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 40 | 5200 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 44 | 5220 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | 48 | 5240 | 8.30 | 8.30 | 8.30 | | 11.30 | | | | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 38 | 5190 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | | | | | | |
| | 46 | 5230 | 8.30 | | 8.30 | | 8.30 | | 11.30 | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 42 | 5210 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | | | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|-------|--------|-------|--------|--------|--------|
| 5.3GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | |
| | 5.3GHz WLAN | 802.11a 6Mbps | 52 | 5260 | Not Required | 8.30 | 99.00 | Not Required | 8.30 | 99.00 | Not Required | 8.30 | Not Required | 8.30 | Not Required | 11.30 | 99.00 | | | | | |
| 56 | | | 5280 | 8.30 | | 8.30 | | | 8.30 | | | 11.30 | | | | | | | | | | |
| 60 | | | 5300 | 8.30 | | 8.30 | | | 8.30 | | | 11.30 | | | | | | | | | | |
| 64 | | | 5320 | 8.30 | | 8.30 | | | 8.30 | | | 11.30 | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 52 | 5260 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 56 | 5280 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 60 | 5300 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 64 | 5320 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| 802.11n-HT40 MCS0 | | 54 | 5270 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 62 | 5310 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 52 | 5260 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 56 | 5280 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 60 | 5300 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 64 | 5320 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 54 | 5270 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 62 | 5310 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| 802.11ac-VHT80 MCS0 | | 58 | 5290 | 8.00 | | 8.30 | 100.00 | | 8.00 | 8.30 | | 100.00 | | 7.90 | | 8.30 | 8.10 | 8.30 | 11.01 | 11.30 | 100.00 | |
| 802.11ax-HE20 MCS0 | | 52 | 5260 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 56 | 5280 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | | 60 | 5300 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | |
| | 64 | 5320 | 8.30 | 8.30 | 8.30 | | 11.30 | | | | | | | | | | | | | | | |
| 802.11ax-HE40 MCS0 | 54 | 5270 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | | | | | | |
| | 62 | 5310 | 8.30 | | 8.30 | | 8.30 | | 11.30 | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 58 | 5290 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | | | | | | |



| 5GHz WLAN | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------|--------|--------|--------------|-------|------|--------------|------|--------------|--------|--------|--------|--------|--------------|-------|------|--------------|------|--------------|-------|--------|
| Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | | | | | | | | | | | | | | | | |
| 5.5GHz WLAN | 802.11a 6Mbps | 100 | 5500 | Not Required | 8.30 | Not Required | 8.30 | 99.00 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | 99.00 | | | | | | | | | | | | | | | | | | | | | | |
| | | 116 | 5580 | | 8.30 | | | | | | | | | | | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | | |
| | | 124 | 5620 | | 8.30 | | | | | | | | | | | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | | |
| | | 132 | 5660 | | 8.30 | | | | | | | | | | | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | | |
| | | 144 | 5720 | | 8.30 | | | | | | | | | | | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | | |
| | 802.11n-HT20 MCS0 | 100 | 5500 | | 8.30 | | | | | | | | | | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | 100.00 | | | | | | | | | | |
| | | 116 | 5580 | | 8.30 | | | | | | | | | | | | 8.30 | | 8.30 | | 8.30 | | | | | | | 8.30 | 11.30 | | | | | | | | |
| | | 124 | 5620 | | 8.30 | | | | | | | | | | | | 8.30 | | 8.30 | | 8.30 | | | | | | | 8.30 | 11.30 | | | | | | | | |
| | | 132 | 5660 | | 8.30 | | | | | | | | | | | | 8.30 | | 8.30 | | 8.30 | | | | | | | 8.30 | 11.30 | | | | | | | | |
| | | 144 | 5720 | | 8.30 | | | | | | | | | | | | 8.30 | | 8.30 | | 8.30 | | | | | | | 8.30 | 11.30 | | | | | | | | |
| | 802.11n-HT40 MCS0 | 102 | 5510 | | Not Required | | | | | | | | | | | 8.30 | 100.00 | 8.30 | 100.00 | Not Required | 8.30 | 8.30 | Not Required | 8.30 | Not Required | 11.30 | 100.00 | | | | | | | | | | |
| | | 110 | 5550 | | | | | | | | | | | | | 8.30 | | 8.30 | | | 8.30 | | | | | 8.30 | | 11.30 | | | | | | | | | |
| | | 126 | 5630 | | | | | | | | | | | | | 8.30 | | 8.30 | | | 8.30 | | | | | 8.30 | | 11.30 | | | | | | | | | |
| | | 134 | 5670 | | | | | | | | | | | | | 8.30 | | 8.30 | | | 8.30 | | | | | 8.30 | | 11.30 | | | | | | | | | |
| | 802.11ac-VHT20 MCS0 | 100 | 5500 | | Not Required | | | | | | | | | | | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | 100.00 | | | | | | | | | | |
| | | 116 | 5580 | | | | | | | | | | | | | 8.30 | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | |
| | | 124 | 5620 | | | | | | | | | | | | | 8.30 | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | |
| | | 132 | 5660 | | | | | | | | | | | | | 8.30 | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | |
| | | 144 | 5720 | | | | | | | | | | | | | 8.30 | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | |
| | 802.11ac-VHT40 MCS0 | 102 | 5510 | | | | | | | | | | | | | 100.00 | | 8.30 | | | | | | | | | | 100.00 | 8.30 | 100.00 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 |
| 110 | | 5550 | 8.30 | 8.30 | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 126 | | 5630 | 8.30 | 8.30 | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 134 | | 5670 | 8.30 | 8.30 | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 142 | | 5710 | 8.30 | 8.30 | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 802.11ac-VHT80 MCS0 | 106 | 5530 | 8.00 | 100.00 | | 8.30 | 100.00 | 8.00 | 100.00 | 7.80 | 8.30 | 8.40 | 8.30 | 11.12 | 11.30 | 100.00 | | | | | | | | | | | | | | | | | | | | | |
| | 122 | 5610 | 7.90 | | | 8.30 | | 7.90 | | 8.30 | | 8.20 | | 8.30 | | | | 11.06 | | | | | | | | | | | | | | | | | | | |
| | 138 | 5690 | 8.00 | | | 8.30 | | 8.00 | | 8.30 | | 8.20 | | 8.30 | | | | 11.06 | | | | | | | | | | 11.30 | | | | | | | | | |
| 802.11ax-HE20 MCS0 | 100 | 5500 | Not Required | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | 100.00 | | | | | | | | | | | | | | | | | | | | | |
| | 116 | 5580 | | 8.30 | | | 8.30 | | | | | | | | | | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 11.30 | | | | | | | |
| | 124 | 5620 | | 8.30 | | | 8.30 | | | | | | | | | | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 11.30 | | | | | | | |
| | 132 | 5660 | | 8.30 | | | 8.30 | | | | | | | | | | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 11.30 | | | | | | | |
| | 144 | 5720 | | 8.30 | | | 8.30 | | | | | | | | | | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 11.30 | | | | | | | |
| 802.11ax-HE40 MCS0 | 102 | 5510 | | Not Required | | | 8.30 | | | | | | | | | | | 100.00 | | | | | | | | | | 8.30 | 100.00 | Not Required | 8.30 | 8.30 | Not Required | 8.30 | Not Required | 11.30 | 100.00 |
| | 110 | 5550 | | | | | 8.30 | | | | | | | | | | | | | | | | | | | | | 8.30 | | | 8.30 | | | | | 8.30 | |
| | 126 | 5630 | | | 8.30 | | 8.30 | | | | | | | | | | 8.30 | | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | |
| | 134 | 5670 | | | 8.30 | | 8.30 | | | | | | | | | | 8.30 | | 8.30 | 8.30 | 11.30 | | | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 106 | 5530 | | 100.00 | 8.30 | | 100.00 | | | | | | | | | | 8.30 | 100.00 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 8.30 | 11.30 | 100.00 | | | | | | | | | | | |
| | 122 | 5610 | | | 8.30 | | | | | | | | | | | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | |
| | 138 | 5690 | | | 8.30 | | | | | | | | | | | | 8.30 | | | | | | | | | | 8.30 | 8.30 | 8.30 | 11.30 | | | | | | | |



| 5GHz WLAN | | | | Ant 6 | | | Ant 3 | | | Ant 3+6 | | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------------|---------------|---------------------------|---------------|-----------------------------|---------------|--------------|--------|--------|--------|--------|--------|--------|--------|
| 5.8GHz WLAN | Mode | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Ant 6 Average power (dBm) | Tune-Up Limit | Ant 3 Average power (dBm) | Tune-Up Limit | Ant 3+6 Average power (dBm) | Tune-Up Limit | Duty Cycle % | | | | | | | |
| | 5.8GHz WLAN | 802.11a 6Mbps | 149 | 5745 | Not Required | 8.30 | 99.00 | Not Required | 8.30 | 99.00 | Not Required | 8.30 | Not Required | 8.30 | Not Required | 11.30 | 99.00 | | | | | | |
| 157 | | | 5785 | 8.30 | | 8.30 | | | 8.30 | | | 11.30 | | | | | | | | | | | |
| 165 | | | 5825 | 8.30 | | 8.30 | | | 8.30 | | | 11.30 | | | | | | | | | | | |
| 802.11n-HT20 MCS0 | | 149 | 5745 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | |
| | | 157 | 5785 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | | |
| | | 165 | 5825 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | | |
| 802.11n-HT40 MCS0 | | 151 | 5755 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | |
| | | 159 | 5795 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | | |
| 802.11ac-VHT20 MCS0 | | 149 | 5745 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | |
| | | 157 | 5785 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | | |
| | | 165 | 5825 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | | |
| 802.11ac-VHT40 MCS0 | | 151 | 5755 | 8.30 | | 100.00 | 8.30 | | 100.00 | 8.30 | | 100.00 | | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | |
| | | 159 | 5795 | 8.30 | | | 8.30 | | | 8.30 | | | | 11.30 | | | | | | | | | |
| 802.11ac-VHT80 MCS0 | | 155 | 5775 | 7.90 | | 8.30 | 100.00 | | 8.00 | 8.30 | | 100.00 | | 7.60 | | 8.30 | 8.40 | 8.30 | 11.03 | 8.30 | 11.30 | 100.00 | |
| 802.11ax-HE20 MCS0 | | 149 | 5745 | Not Required | | 8.30 | 100.00 | | Not Required | 8.30 | | 100.00 | | Not Required | | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 |
| | | 157 | 5785 | | | 8.30 | | | | 8.30 | | | | | | 8.30 | | 11.30 | | | | | |
| | | 165 | 5825 | | | 8.30 | | | | 8.30 | | | | | | 8.30 | | 11.30 | | | | | |
| 802.11ax-HE40 MCS0 | | 151 | 5755 | | | 8.30 | 100.00 | | | 8.30 | | 100.00 | | | | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 | 8.30 | 100.00 |
| | 159 | 5795 | 8.30 | | 8.30 | 8.30 | | 11.30 | | | | | | | | | | | | | | | |
| 802.11ax-HE80 MCS0 | 155 | 5775 | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | | 100.00 | 8.30 | 100.00 | 8.30 | | 100.00 | 8.30 | 100.00 | 11.30 | 100.00 | | | | |



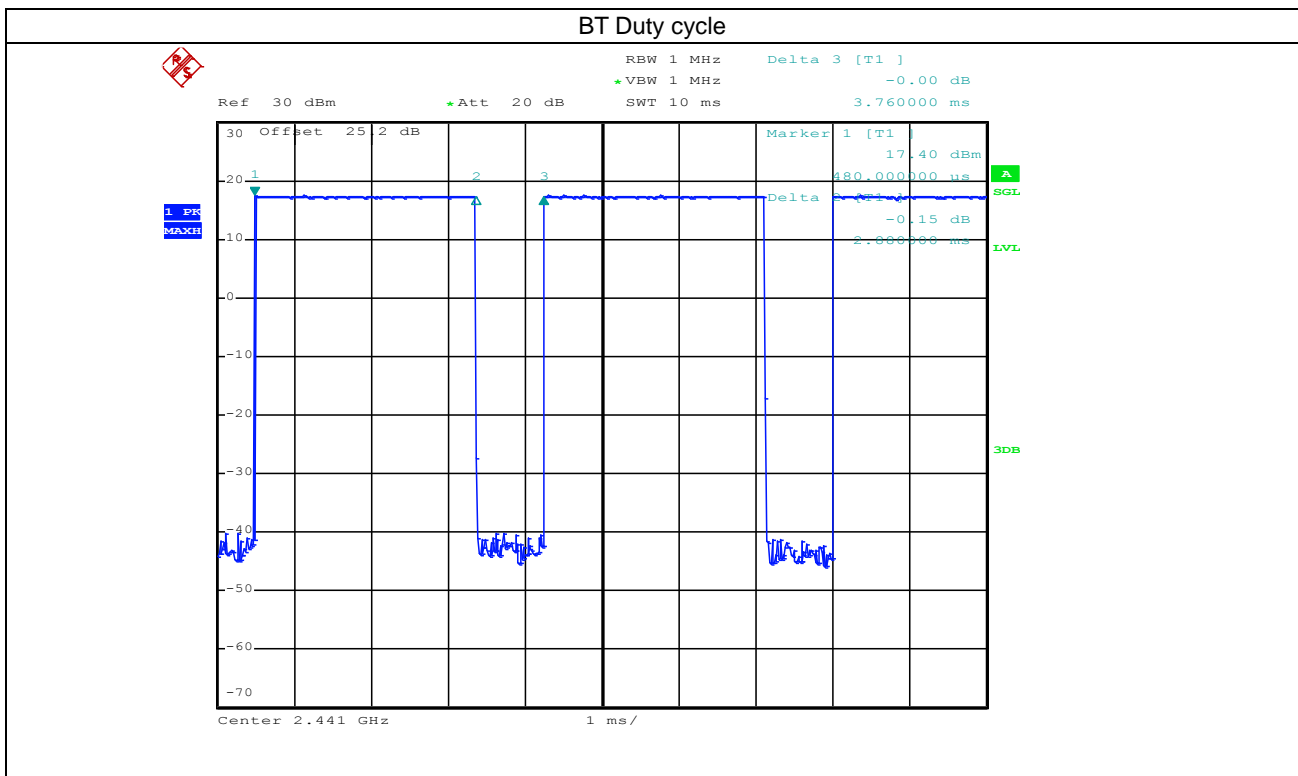
<2.4GHz Bluetooth>

| Mode | Channel | Frequency (MHz) | Average power (dBm) | | |
|---------------|---------|-----------------|---------------------|-------|-------|
| | | | 1Mbps | 2Mbps | 3Mbps |
| BR / EDR | CH 00 | 2402 | 16.05 | 13.38 | 13.33 |
| | CH 39 | 2441 | 17.03 | 14.53 | 14.29 |
| | CH 78 | 2480 | 16.10 | 13.60 | 13.54 |
| Tune-up Limit | | | 17.5 | 15 | 15 |

| Mode | Channel | Frequency (MHz) | Average power (dBm) | |
|---------------|---------|-----------------|---------------------|-------|
| | | | 1Mbps | 2Mbps |
| LE | CH 00 | 2402 | 13.40 | 13.50 |
| | CH 19 | 2440 | 14.70 | 14.70 |
| | CH 39 | 2480 | 13.70 | 13.70 |
| Tune-up Limit | | | 15 | 15 |

General Note:

- For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 76.84% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.





16. Antenna Location

| Antenna | Support Bands |
|---------|---|
| 1 | GSM850/1900, WCDMA B2/4/5, CDMA BC0/1, LTE B2/4/5/7/12/13/17/25/26/30/38/41/66/71 |
| 2 | 5G NR n5/n66/n71 |
| 3 | 5GHz WLAN |
| 4 | 2.4GHz WLAN |
| 6 | 2.4GHz WLAN, Bluetooth, 5GHz WLAN |

| Distance of the Antenna to the EUT surface/edge | | | | | | |
|---|--------|--------|----------|-------------|------------|-----------|
| Antennas | Back | Front | Top Side | Bottom Side | Right Side | Left Side |
| 1 | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | ≤ 25mm | ≤ 25mm |
| 1 | ≤ 25mm | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | ≤ 25mm |
| 3 | ≤ 25mm | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | ≤ 25mm |
| 4 | ≤ 25mm | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | ≤ 25mm |
| 6 | ≤ 25mm | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | >25mm |
| 4+6 | ≤ 25mm | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | ≤ 25mm |
| 3+6 | ≤ 25mm | ≤ 25mm | ≤ 25mm | >25mm | ≤ 25mm | ≤ 25mm |

| Positions for SAR tests; Hotspot mode | | | | | | |
|---------------------------------------|------|-------|----------|-------------|------------|-----------|
| Antennas | Back | Front | Top Side | Bottom Side | Right Side | Left Side |
| 1 | Yes | Yes | No | Yes | Yes | Yes |
| 2 | Yes | Yes | Yes | No | Yes | Yes |
| 3 | Yes | Yes | Yes | No | Yes | Yes |
| 4 | Yes | Yes | Yes | No | Yes | Yes |
| 6 | Yes | Yes | Yes | No | Yes | No |
| 4+6 | Yes | Yes | Yes | No | Yes | Yes |
| 3+6 | Yes | Yes | Yes | No | Yes | Yes |

General Note:

- Referring to KDB 941225 D06 v02r01, when the overall device length and width are ≥ 9cm*5cm, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge



17. 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 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 WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. 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 Reported TDD LTE SAR = 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:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 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
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
4. Pre KDB648474 D04v01r03, when the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 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.
5. 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 product specific 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, for this device WWAN transmitter scaled to maximum output power is higher than 1.2W/kg of GSM1900, WCDMA B2/4, CDMA BC1, LTE B7/B25/B30/B66 and 2.4GHz/5.2GHz/5.8GHz WLAN, therefore product specific SAR is necessary.
6. For 5.3GHz / 5.5GHz WLAN product specific SAR is necessary too, due to an overall diagonal dimension is > 16 cm.
7. The device additionally employs proximity sensors that detect the presence of tissue near the currently active transmit antenna (if that antenna may require reduced power relative the Default power table in order to meet extremity SAR limits). The control logic is such that, if the Body-Worn, At-Head or WiFi Hotspot conditions are not detected, but tissue (as a finger or hand, for example) is detected near the transmitting antenna, the Handheld power table will be applied
8. When the sensor is active, the device will reduced maximum output powers on the GSM1900, WCDMA B2 / B4, CDMA BC1, LTE B2 / B4 / B7 / B25 / B30 / B66 / B48 transmitter.
9. For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance was performed:
 - a. For Body-worn:
 - Front: [14 mm](#)
 - Back: [18 mm](#)
 - b. For Extremity::
 - Front: [5 mm](#)
 - Back: [8 mm](#)
 - Bottom: [7 mm](#)

**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. The GPRS (3Tx slots) for GSM850 and GPRS (2Tx slots) for GSM1900 for GSM850/GSM1900 head and product specific SAR is considered as the primary mode.
3. The GPRS (3Tx slots) for GSM850 and GPRS (4Tx slots) for GSM1900 for GSM850/GSM1900 hotspot SAR is considered as the primary mode.
4. The GPRS (3Tx slots) for GSM850 and GPRS (2Tx slots) for GSM1900 for GSM850/GSM1900 body-worn SAR is considered as the primary mode.
5. Power reduction which is triggered by proximity sensor is implemented in GSM1900 band, for body-worn mode SAR testing EUT was set in reduced power mode and GPRS 4Tx slot due to its highest frame-average power.
6. 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.

UMTS 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 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 to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA, and according to the following RF output power, the output power results of the secondary modes (HSUPA, HSDPA, DC-HSDPA) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA.

CDMA Note:

1. Per KDB 941225 D01v03r01, SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

**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 ≤ 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 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 ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM 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 ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. For LTE B12 / B5 / B4 / B26 / B71 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 band 2/4/5/17/38 SAR test was covered by Band 25/66/26/12/41; according to 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.

WLAN 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 ≤ 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 ≤ 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 ≤ 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 ≤ 1.2 W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.



17.1 Head SAR

<GSM SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | GSM850 | GPRS (3 Tx slots) | Right Cheek | 0mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | 0.14 | 0.249 | 0.265 |
| | GSM850 | GPRS (3 Tx slots) | Right Cheek | 0mm | OFF | 189 | 836.4 | 29.56 | 30.50 | 1.242 | 0.14 | 0.251 | 0.312 |
| 01 | GSM850 | GPRS (3 Tx slots) | Right Cheek | 0mm | OFF | 251 | 848.8 | 28.94 | 30.50 | 1.432 | 0.14 | 0.255 | 0.365 |
| | GSM850 | GPRS (3 Tx slots) | Right Tilted | 0mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | 0.13 | 0.132 | 0.140 |
| | GSM850 | GPRS (3 Tx slots) | Left Cheek | 0mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | 0.1 | 0.196 | 0.209 |
| | GSM850 | GPRS (3 Tx slots) | Left Tilted | 0mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | 0.19 | 0.121 | 0.129 |
| | GSM1900 | GPRS (2 Tx slots) | Right Cheek | 0mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | 0.14 | 0.081 | 0.120 |
| | GSM1900 | GPRS (2 Tx slots) | Right Tilted | 0mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | 0.15 | 0.063 | 0.093 |
| | GSM1900 | GPRS (2 Tx slots) | Left Cheek | 0mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | 0.01 | 0.126 | 0.186 |
| 02 | GSM1900 | GPRS (2 Tx slots) | Left Cheek | 0mm | OFF | 810 | 1909.8 | 28.72 | 30.50 | 1.507 | 0.01 | 0.130 | 0.196 |
| | GSM1900 | GPRS (2 Tx slots) | Left Cheek | 0mm | OFF | 512 | 1850.2 | 28.78 | 30.50 | 1.486 | 0.01 | 0.123 | 0.183 |
| | GSM1900 | GPRS (2 Tx slots) | Left Tilted | 0mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | 0.18 | 0.080 | 0.118 |

<WCDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | WCDMA II | RMC 12.2Kbps | Right Cheek | 0mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | 0.01 | 0.096 | 0.115 |
| | WCDMA II | RMC 12.2Kbps | Right Tilted | 0mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | 0.1 | 0.053 | 0.063 |
| 03 | WCDMA II | RMC 12.2Kbps | Left Cheek | 0mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | 0.08 | 0.133 | 0.159 |
| | WCDMA II | RMC 12.2Kbps | Left Cheek | 0mm | OFF | 9538 | 1907.6 | 23.21 | 24.00 | 1.199 | -0.1 | 0.097 | 0.116 |
| | WCDMA II | RMC 12.2Kbps | Left Cheek | 0mm | OFF | 9262 | 1852.4 | 23.12 | 24.00 | 1.225 | -0.1 | 0.091 | 0.111 |
| | WCDMA II | RMC 12.2Kbps | Left Tilted | 0mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | 0.14 | 0.084 | 0.101 |
| | WCDMA IV | RMC 12.2Kbps | Right Cheek | 0mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | 0.01 | 0.087 | 0.099 |
| | WCDMA IV | RMC 12.2Kbps | Right Tilted | 0mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | 0.1 | 0.048 | 0.055 |
| 04 | WCDMA IV | RMC 12.2Kbps | Left Cheek | 0mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | 0.08 | 0.121 | 0.138 |
| | WCDMA IV | RMC 12.2Kbps | Left Cheek | 0mm | OFF | 1513 | 1752.6 | 23.32 | 24.00 | 1.169 | -0.11 | 0.086 | 0.101 |
| | WCDMA IV | RMC 12.2Kbps | Left Cheek | 0mm | OFF | 1312 | 1712.4 | 23.31 | 24.00 | 1.172 | -0.1 | 0.083 | 0.097 |
| | WCDMA IV | RMC 12.2Kbps | Left Tilted | 0mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | 0.14 | 0.076 | 0.086 |
| | WCDMA V | RMC 12.2Kbps | Right Cheek | 0mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | 0.09 | 0.161 | 0.187 |
| 05 | WCDMA V | RMC 12.2Kbps | Right Cheek | 0mm | OFF | 4182 | 836.4 | 23.22 | 24.00 | 1.197 | 0.09 | 0.158 | 0.189 |
| | WCDMA V | RMC 12.2Kbps | Right Cheek | 0mm | OFF | 4132 | 826.4 | 23.21 | 24.00 | 1.199 | 0.09 | 0.155 | 0.186 |
| | WCDMA V | RMC 12.2Kbps | Right Tilted | 0mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | 0.08 | 0.064 | 0.074 |
| | WCDMA V | RMC 12.2Kbps | Left Cheek | 0mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | 0.03 | 0.119 | 0.138 |
| | WCDMA V | RMC 12.2Kbps | Left Tilted | 0mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | 0.14 | 0.068 | 0.079 |



<CDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 06 | CDMA BC0 | 1xRTT RC3 SO55 | Right Cheek | 0mm | OFF | 777 | 848.31 | 23.81 | 25.00 | 1.315 | -0.15 | 0.389 | 0.512 |
| | CDMA BC0 | 1xRTT RC3 SO55 | Right Cheek | 0mm | OFF | 384 | 836.52 | 23.69 | 25.00 | 1.352 | -0.05 | 0.389 | 0.526 |
| | CDMA BC0 | 1xRTT RC3 SO55 | Right Cheek | 0mm | OFF | 1013 | 824.7 | 23.76 | 25.00 | 1.330 | -0.05 | 0.381 | 0.507 |
| | CDMA BC0 | 1xRTT RC3 SO55 | Right Tilted | 0mm | OFF | 777 | 848.31 | 23.81 | 25.00 | 1.315 | 0.01 | 0.088 | 0.116 |
| | CDMA BC0 | 1xRTT RC3 SO55 | Left Cheek | 0mm | OFF | 777 | 848.31 | 23.81 | 25.00 | 1.315 | -0.05 | 0.187 | 0.246 |
| | CDMA BC0 | 1xRTT RC3 SO55 | Left Tilted | 0mm | OFF | 777 | 848.31 | 23.81 | 25.00 | 1.315 | 0.16 | 0.120 | 0.158 |
| 07 | CDMA BC1 | 1xRTT RC3 SO55 | Right Cheek | 0mm | OFF | 25 | 1851.25 | 24.30 | 25.00 | 1.175 | 0.03 | 0.135 | 0.159 |
| | CDMA BC1 | 1xRTT RC3 SO55 | Right Tilted | 0mm | OFF | 25 | 1851.25 | 24.30 | 25.00 | 1.175 | 0.12 | 0.085 | 0.100 |
| | CDMA BC1 | 1xRTT RC3 SO55 | Left Cheek | 0mm | OFF | 25 | 1851.25 | 24.30 | 25.00 | 1.175 | -0.11 | 0.188 | 0.221 |
| | CDMA BC1 | 1xRTT RC3 SO55 | Left Cheek | 0mm | OFF | 1175 | 1908.75 | 24.06 | 25.00 | 1.242 | -0.11 | 0.199 | 0.247 |
| | CDMA BC1 | 1xRTT RC3 SO55 | Left Cheek | 0mm | OFF | 600 | 1880 | 24.13 | 25.00 | 1.222 | -0.11 | 0.193 | 0.236 |
| | CDMA BC1 | 1xRTT RC3 SO55 | Left Tilted | 0mm | OFF | 25 | 1851.25 | 24.30 | 25.00 | 1.175 | 0.11 | 0.098 | 0.115 |

<FDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 08 | LTE Band 7 | 20M | QPSK | 1 | 99 | Right Cheek | 0mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | 0.01 | 0.020 | 0.023 |
| | LTE Band 7 | 20M | QPSK | 50 | 50 | Right Cheek | 0mm | OFF | 21100 | 2535 | 22.37 | 23.00 | 1.156 | 0.14 | 0.031 | 0.036 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Right Tilted | 0mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | 0.12 | 0.033 | 0.038 |
| | LTE Band 7 | 20M | QPSK | 50 | 50 | Right Tilted | 0mm | OFF | 21100 | 2535 | 22.37 | 23.00 | 1.156 | 0.05 | 0.027 | 0.031 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Left Cheek | 0mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | 0.07 | 0.034 | 0.039 |
| | LTE Band 7 | 20M | QPSK | 50 | 50 | Left Cheek | 0mm | OFF | 21100 | 2535 | 22.37 | 23.00 | 1.156 | 0.18 | 0.026 | 0.030 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Left Tilted | 0mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | 0.09 | 0.054 | 0.063 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Left Tilted | 0mm | OFF | 20850 | 2510 | 23.22 | 24.00 | 1.197 | 0.1 | 0.053 | 0.063 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Left Tilted | 0mm | OFF | 21350 | 2560 | 23.34 | 24.00 | 1.164 | 0.09 | 0.055 | 0.064 |
| | LTE Band 7 | 20M | QPSK | 50 | 50 | Left Tilted | 0mm | OFF | 21100 | 2535 | 22.37 | 23.00 | 1.156 | 0.1 | 0.043 | 0.050 |
| 09 | LTE Band 12 | 10M | QPSK | 1 | 0 | Right Cheek | 0mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | 0.18 | 0.130 | 0.164 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Right Cheek | 0mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | -0.01 | 0.151 | 0.194 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Right Tilted | 0mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.06 | 0.057 | 0.072 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Right Tilted | 0mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0.06 | 0.043 | 0.055 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Left Cheek | 0mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.04 | 0.143 | 0.180 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Left Cheek | 0mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0.1 | 0.117 | 0.150 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Left Tilted | 0mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | 0.02 | 0.070 | 0.088 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Left Tilted | 0mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0.07 | 0.057 | 0.073 |
| 10 | LTE Band 13 | 10M | QPSK | 1 | 0 | Right Cheek | 5mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.11 | 0.178 | 0.230 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Right Cheek | 0mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | 0.05 | 0.227 | 0.290 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Right Tilted | 0mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.03 | 0.123 | 0.159 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Right Tilted | 0mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | -0.02 | 0.101 | 0.129 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Left Cheek | 0mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.05 | 0.239 | 0.309 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Left Cheek | 0mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | -0.01 | 0.193 | 0.246 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Left Tilted | 0mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.1 | 0.131 | 0.170 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Left Tilted | 0mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | -0.04 | 0.107 | 0.137 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Right Cheek | 0mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | 0.08 | 0.107 | 0.130 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Right Cheek | 0mm | OFF | 26140 | 1860 | 22.16 | 23.00 | 1.213 | 0.04 | 0.089 | 0.108 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Right Tilted | 0mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | -0.08 | 0.052 | 0.063 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Right Tilted | 0mm | OFF | 26140 | 1860 | 22.16 | 23.00 | 1.213 | 0.12 | 0.041 | 0.050 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Cheek | 0mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | -0.03 | 0.102 | 0.124 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Cheek | 0mm | OFF | 26140 | 1860 | 22.16 | 23.00 | 1.213 | 0.11 | 0.123 | 0.149 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Cheek | 0mm | OFF | 26340 | 1880 | 22.13 | 23.00 | 1.222 | -0.03 | 0.154 | 0.188 |
| 11 | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Cheek | 0mm | OFF | 26590 | 1905 | 22.14 | 23.00 | 1.219 | -0.03 | 0.158 | 0.193 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Tilted | 0mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | 0.1 | 0.069 | 0.084 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Tilted | 0mm | OFF | 26140 | 1860 | 22.16 | 23.00 | 1.213 | 0.17 | 0.057 | 0.069 |
| 12 | LTE Band 26 | 15M | QPSK | 1 | 74 | Right Cheek | 0mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.11 | 0.178 | 0.220 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Right Cheek | 0mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.13 | 0.111 | 0.131 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Right Tilted | 0mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.07 | 0.085 | 0.105 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Right Tilted | 0mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.09 | 0.054 | 0.064 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Left Cheek | 0mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.11 | 0.114 | 0.141 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Left Cheek | 0mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.14 | 0.074 | 0.087 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Left Tilted | 0mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | 0.15 | 0.097 | 0.120 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Left Tilted | 0mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | 0.05 | 0.077 | 0.091 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Right Cheek | 0mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | -0.16 | 0.021 | 0.028 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Right Cheek | 0mm | OFF | 27710 | 2310 | 21.77 | 23.00 | 1.327 | -0.12 | 0.011 | 0.015 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Right Tilted | 0mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | -0.12 | 0.013 | 0.017 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Right Tilted | 0mm | OFF | 27710 | 2310 | 21.77 | 23.00 | 1.327 | -0.1 | 0.001 | 0.001 |
| 13 | LTE Band 30 | 10M | QPSK | 1 | 0 | Left Cheek | 0mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | 0.17 | 0.029 | 0.039 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Left Cheek | 0mm | OFF | 27710 | 2310 | 21.77 | 23.00 | 1.327 | -0.1 | 0.014 | 0.019 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Left Tilted | 0mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | -0.05 | 0.014 | 0.019 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Left Tilted | 0mm | OFF | 27710 | 2310 | 21.77 | 23.00 | 1.327 | 0.06 | 0.004 | 0.006 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Right Cheek | 0mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | -0.16 | 0.094 | 0.114 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Right Cheek | 0mm | OFF | 132322 | 1745 | 22.14 | 23.00 | 1.219 | -0.19 | 0.089 | 0.108 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Right Tilted | 0mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | 0.05 | 0.054 | 0.065 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Right Tilted | 0mm | OFF | 132322 | 1745 | 22.14 | 23.00 | 1.219 | 0.09 | 0.045 | 0.055 |
| 14 | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Cheek | 0mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | -0.04 | 0.133 | 0.161 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Cheek | 0mm | OFF | 132072 | 1720 | 23.05 | 24.00 | 1.245 | -0.06 | 0.092 | 0.114 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Cheek | 0mm | OFF | 132572 | 1770 | 23.17 | 24.00 | 1.211 | -0.06 | 0.096 | 0.116 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Left Cheek | 0mm | OFF | 132322 | 1745 | 22.14 | 23.00 | 1.219 | 0.13 | 0.112 | 0.137 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Tilted | 0mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | 0.11 | 0.065 | 0.079 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Left Tilted | 0mm | OFF | 132322 | 1745 | 22.14 | 23.00 | 1.219 | 0.03 | 0.061 | 0.074 |
| 15 | LTE Band 71 | 20M | QPSK | 1 | 0 | Right Cheek | 0mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.07 | 0.114 | 0.137 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Right Cheek | 0mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | 0.02 | 0.075 | 0.079 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Right Tilted | 0mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | 0.02 | 0.075 | 0.090 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Right Tilted | 0mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | 0.05 | 0.025 | 0.026 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Left Cheek | 0mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.02 | 0.100 | 0.120 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Left Cheek | 0mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.13 | 0.056 | 0.059 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Left Tilted | 0mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.12 | 0.048 | 0.058 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Left Tilted | 0mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.07 | 0.032 | 0.034 |



<TDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 16 | LTE Band 41 | 20M | QPSK | 1 | 99 | Right Cheek | 0mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.02 | 0.010 | 0.012 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Right Cheek | 0mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | -0.14 | 0.003 | 0.003 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Right Tilted | 0mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.15 | 0.006 | 0.006 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Right Tilted | 0mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | 0.1 | 0.001 | 0.001 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Left Cheek | 0mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.05 | 0.009 | 0.010 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Left Cheek | 0mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | -0.13 | 0.007 | 0.008 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Left Tilted | 0mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | 0 | 0.009 | 0.010 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Left Tilted | 0mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | -0.12 | 0.008 | 0.009 |

<5N NR SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 17 | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Right Cheek | 0mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | 0.03 | 0.115 | 0.119 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Right Cheek | 0mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | 0.04 | 0.107 | 0.112 |
| | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Right Tilted | 0mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | -0.04 | 0.110 | 0.114 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Right Tilted | 0mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | 0.02 | 0.103 | 0.107 |
| | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Left Cheek | 0mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | 0.03 | 0.091 | 0.094 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Left Cheek | 0mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | -0.11 | 0.084 | 0.088 |
| | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Left Tilted | 0mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | 0.15 | 0.077 | 0.080 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Left Tilted | 0mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | 0.06 | 0.071 | 0.074 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Right Cheek | 0mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | 0.06 | 0.339 | 0.348 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Right Cheek | 0mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | 0.02 | 0.321 | 0.342 |
| 19 | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Right Tilted | 0mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | 0.03 | 0.364 | 0.373 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Right Tilted | 0mm | OFF | 346000 | 1730 | 23.76 | 24.00 | 1.057 | -0.12 | 0.346 | 0.366 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Right Tilted | 0mm | OFF | 352000 | 1760 | 23.80 | 24.00 | 1.047 | 0.06 | 0.319 | 0.334 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Right Tilted | 0mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | 0.03 | 0.333 | 0.354 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Left Cheek | 0mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | -0.11 | 0.266 | 0.273 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Left Cheek | 0mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | -0.17 | 0.252 | 0.268 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Left Tilted | 0mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | 0.09 | 0.322 | 0.330 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Left Tilted | 0mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | 0.02 | 0.308 | 0.328 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| 20 | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Right Cheek | 0mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | 0.17 | 0.108 | 0.109 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Right Cheek | 0mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | 0.02 | 0.097 | 0.100 |
| | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Right Tilted | 0mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | 0.02 | 0.093 | 0.094 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Right Tilted | 0mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | -0.05 | 0.091 | 0.094 |
| | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Left Cheek | 0mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | 0.03 | 0.098 | 0.099 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Left Cheek | 0mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | 0.15 | 0.093 | 0.096 |
| | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Left Tilted | 0mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | -0.14 | 0.089 | 0.090 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Left Tilted | 0mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | 0.03 | 0.078 | 0.081 |

<WLAN SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Output Power Status | Ch. | Freq. (MHz) | 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) |
|----------|------------|---------------------|---------------|----------|---------|---------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek | 0mm | Ant 4 | 4 / 5 | 1 | 2412 | 20.30 | 20.80 | 1.122 | 100 | 1.000 | -0.1 | 0.037 | 0.042 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek | 0mm | Ant 4 | 4 / 5 | 6 | 2437 | 20.20 | 20.80 | 1.148 | 100 | 1.000 | -0.01 | 0.029 | 0.033 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek | 0mm | Ant 4 | 4 / 5 | 11 | 2462 | 20.30 | 20.80 | 1.122 | 100 | 1.000 | -0.07 | 0.033 | 0.037 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted | 0mm | Ant 4 | 4 / 5 | 1 | 2412 | 20.30 | 20.80 | 1.122 | 100 | 1.000 | 0.13 | 0.030 | 0.034 |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek | 0mm | Ant 4 | 4 / 5 | 1 | 2412 | 20.30 | 20.80 | 1.122 | 100 | 1.000 | 0.07 | 0.032 | 0.036 |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted | 0mm | Ant 4 | 4 / 5 | 1 | 2412 | 20.30 | 20.80 | 1.122 | 100 | 1.000 | 0.12 | 0.025 | 0.028 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek | 0mm | Ant 4+6 | 4 / 5 | 1 | 2412 | 23.53 | 23.80 | 1.064 | 100 | 1.000 | -0.15 | 0.041 | 0.044 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek | 0mm | Ant 4+6 | 4 / 5 | 6 | 2437 | 23.53 | 23.80 | 1.064 | 100 | 1.000 | -0.11 | 0.037 | 0.039 |
| 22 | WLAN2.4GHz | 802.11b 1Mbps | Right Cheek | 0mm | Ant 4+6 | 4 / 5 | 11 | 2462 | 23.40 | 23.80 | 1.098 | 100 | 1.000 | -0.17 | 0.042 | 0.046 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Tilted | 0mm | Ant 4+6 | 4 / 5 | 1 | 2412 | 23.53 | 23.80 | 1.064 | 100 | 1.000 | 0.13 | 0.018 | 0.019 |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Cheek | 0mm | Ant 4+6 | 4 / 5 | 1 | 2412 | 23.53 | 23.80 | 1.064 | 100 | 1.000 | 0.09 | 0.030 | 0.032 |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Tilted | 0mm | Ant 4+6 | 4 / 5 | 1 | 2412 | 23.53 | 23.80 | 1.064 | 100 | 1.000 | 0.16 | 0.021 | 0.022 |
| | WLAN5GHz | 802.11a 6Mbps | Right Cheek | 0mm | Ant 3+6 | 4 | 60 | 5300 | 20.16 | 20.30 | 1.033 | 99 | 1.010 | 0.02 | 0.321 | 0.335 |
| | WLAN5GHz | 802.11a 6Mbps | Right Tilted | 0mm | Ant 3+6 | 4 | 60 | 5300 | 20.16 | 20.30 | 1.033 | 99 | 1.010 | -0.13 | 0.544 | 0.567 |
| | WLAN5GHz | 802.11a 6Mbps | Right Tilted | 0mm | Ant 3+6 | 4 | 52 | 5260 | 19.81 | 20.30 | 1.119 | 99 | 1.010 | -0.17 | 0.533 | 0.603 |
| | WLAN5GHz | 802.11a 6Mbps | Right Tilted | 0mm | Ant 3+6 | 4 | 56 | 5280 | 19.80 | 20.30 | 1.122 | 99 | 1.010 | -0.02 | 0.581 | 0.658 |
| 23 | WLAN5GHz | 802.11a 6Mbps | Right Tilted | 0mm | Ant 3+6 | 4 | 64 | 5320 | 20.16 | 20.30 | 1.032 | 99 | 1.010 | -0.02 | 0.646 | 0.673 |
| | WLAN5GHz | 802.11a 6Mbps | Left Cheek | 0mm | Ant 3+6 | 4 | 60 | 5300 | 20.16 | 20.30 | 1.033 | 99 | 1.010 | 0.06 | 0.270 | 0.282 |
| | WLAN5GHz | 802.11a 6Mbps | Left Tilted | 0mm | Ant 3+6 | 4 | 60 | 5300 | 20.16 | 20.30 | 1.033 | 99 | 1.010 | 0.16 | 0.359 | 0.374 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek | 0mm | Ant 3+6 | 5 | 58 | 5290 | 17.61 | 17.80 | 1.045 | 100 | 1.000 | -0.07 | 0.149 | 0.156 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 5 | 58 | 5290 | 17.61 | 17.80 | 1.045 | 100 | 1.000 | -0.18 | 0.299 | 0.312 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek | 0mm | Ant 3+6 | 5 | 58 | 5290 | 17.61 | 17.80 | 1.045 | 100 | 1.000 | 0.15 | 0.125 | 0.131 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted | 0mm | Ant 3+6 | 5 | 58 | 5290 | 17.61 | 17.80 | 1.045 | 100 | 1.000 | 0.09 | 0.166 | 0.173 |



| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Output Power Status | Ch. | Freq. (MHz) | 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) |
|----------|----------|---------------------|---------------|----------|---------|---------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek | 0mm | Ant 3+6 | 4 | 122 | 5610 | 19.83 | 20.30 | 1.115 | 100 | 1.000 | -0.1 | 0.426 | 0.475 |
| 24 | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 4 | 122 | 5610 | 19.83 | 20.30 | 1.115 | 100 | 1.000 | -0.1 | 0.630 | 0.702 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 4 | 106 | 5530 | 18.91 | 20.30 | 1.377 | 100 | 1.000 | -0.1 | 0.504 | 0.694 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 4 | 138 | 5690 | 18.91 | 20.30 | 1.377 | 100 | 1.000 | -0.04 | 0.501 | 0.690 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek | 0mm | Ant 3+6 | 4 | 122 | 5610 | 19.83 | 20.30 | 1.115 | 100 | 1.000 | 0.07 | 0.354 | 0.395 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted | 0mm | Ant 3+6 | 4 | 122 | 5610 | 19.83 | 20.30 | 1.115 | 100 | 1.000 | -0.09 | 0.440 | 0.490 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek | 0mm | Ant 3+6 | 5 | 106 | 5530 | 17.76 | 17.80 | 1.009 | 100 | 1.000 | -0.11 | 0.292 | 0.295 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 5 | 106 | 5530 | 17.76 | 17.80 | 1.009 | 100 | 1.000 | 0.03 | 0.345 | 0.348 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 5 | 122 | 5610 | 17.71 | 17.80 | 1.021 | 100 | 1.000 | -0.08 | 0.413 | 0.422 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 5 | 138 | 5690 | 17.71 | 17.80 | 1.021 | 100 | 1.000 | 0.01 | 0.343 | 0.350 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek | 0mm | Ant 3+6 | 5 | 106 | 5530 | 17.76 | 17.80 | 1.009 | 100 | 1.000 | -0.17 | 0.242 | 0.244 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted | 0mm | Ant 3+6 | 5 | 106 | 5530 | 17.76 | 17.80 | 1.009 | 100 | 1.000 | -0.19 | 0.301 | 0.304 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek | 0mm | Ant 3+6 | 4 | 155 | 5775 | 19.76 | 20.30 | 1.132 | 100 | 1.000 | 0.01 | 0.653 | 0.739 |
| 25 | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 4 | 155 | 5775 | 19.76 | 20.30 | 1.132 | 100 | 1.000 | -0.08 | 0.742 | 0.840 |
| | WLAN5GHz | 802.11n-HT40 MCS0 | Right Tilted | 0mm | Ant 3+6 | 4 | 151 | 5755 | 19.61 | 20.30 | 1.172 | 100 | 1.000 | -0.02 | 0.702 | 0.823 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek | 0mm | Ant 3+6 | 4 | 155 | 5775 | 19.76 | 20.30 | 1.132 | 100 | 1.000 | 0.12 | 0.352 | 0.399 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted | 0mm | Ant 3+6 | 4 | 155 | 5775 | 19.76 | 20.30 | 1.132 | 100 | 1.000 | -0.09 | 0.438 | 0.496 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Cheek | 0mm | Ant 3+6 | 5 | 155 | 5775 | 17.56 | 17.80 | 1.057 | 100 | 1.000 | 0.15 | 0.405 | 0.428 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Tilted | 0mm | Ant 3+6 | 5 | 155 | 5775 | 17.56 | 17.80 | 1.057 | 100 | 1.000 | -0.06 | 0.460 | 0.486 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Cheek | 0mm | Ant 3+6 | 5 | 155 | 5775 | 17.56 | 17.80 | 1.057 | 100 | 1.000 | -0.11 | 0.218 | 0.230 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Tilted | 0mm | Ant 3+6 | 5 | 155 | 5775 | 17.56 | 17.80 | 1.057 | 100 | 1.000 | 0.14 | 0.272 | 0.287 |

<Bluetooth SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | 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) |
|----------|-----------|-------|---------------|----------|---------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| 26 | Bluetooth | 1Mbps | Right Cheek | 0mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | 0 | 0.001 | 0.001 |
| | Bluetooth | 1Mbps | Right Cheek | 0mm | Ant 6 | 0 | 2402 | 16.05 | 17.50 | 1.396 | 76.84 | 1.084 | 0 | 0.001 | 0.001 |
| | Bluetooth | 1Mbps | Right Cheek | 0mm | Ant 6 | 78 | 2480 | 16.10 | 17.50 | 1.380 | 76.84 | 1.084 | 0 | 0.001 | 0.001 |
| | Bluetooth | 1Mbps | Right Tilted | 0mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | 0 | 0.001 | 0.001 |
| | Bluetooth | 1Mbps | Left Cheek | 0mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | 0 | 0.001 | 0.001 |
| | Bluetooth | 1Mbps | Left Tilted | 0mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | 0 | 0.001 | 0.001 |



17.2 Hotspot SAR

<GSM SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | GSM850 | GPRS (3 Tx slots) | Front | 5mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | -0.11 | 0.571 | 0.608 |
| | GSM850 | GPRS (3 Tx slots) | Back | 5mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | -0.17 | 0.786 | 0.836 |
| | GSM850 | GPRS (3 Tx slots) | Back | 5mm | OFF | 189 | 836.4 | 29.56 | 30.50 | 1.242 | 0.04 | 0.498 | 0.618 |
| 27 | GSM850 | GPRS (3 Tx slots) | Back | 5mm | OFF | 251 | 848.8 | 28.94 | 30.50 | 1.432 | -0.13 | 0.793 | 1.136 |
| | GSM850 | GPRS (3 Tx slots) | Left Side | 5mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | -0.13 | 0.194 | 0.206 |
| | GSM850 | GPRS (3 Tx slots) | Right Side | 5mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | -0.03 | 0.249 | 0.265 |
| | GSM850 | GPRS (3 Tx slots) | Bottom Side | 5mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | 0.09 | 0.236 | 0.251 |
| | GSM1900 | GPRS (4 Tx slots) | Front | 5mm | ON | 810 | 1909.8 | 19.98 | 20.00 | 1.005 | 0.01 | 0.552 | 0.555 |
| | GSM1900 | GPRS (4 Tx slots) | Back | 5mm | ON | 810 | 1909.8 | 19.98 | 20.00 | 1.005 | 0 | 0.588 | 0.591 |
| | GSM1900 | GPRS (4 Tx slots) | Left Side | 5mm | ON | 810 | 1909.8 | 19.98 | 20.00 | 1.005 | 0.05 | 0.052 | 0.052 |
| | GSM1900 | GPRS (4 Tx slots) | Right Side | 5mm | ON | 810 | 1909.8 | 19.98 | 20.00 | 1.005 | 0.12 | 0.661 | 0.664 |
| 28 | GSM1900 | GPRS (4 Tx slots) | Bottom Side | 5mm | ON | 810 | 1909.8 | 19.98 | 20.00 | 1.005 | -0.15 | 0.954 | 0.958 |
| | GSM1900 | GPRS (4 Tx slots) | Bottom Side | 5mm | ON | 512 | 1850.2 | 19.82 | 20.00 | 1.042 | -0.01 | 0.763 | 0.795 |
| | GSM1900 | GPRS (4 Tx slots) | Bottom Side | 5mm | ON | 661 | 1880 | 19.97 | 20.00 | 1.007 | -0.17 | 0.866 | 0.872 |

<WCDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | WCDMA II | RMC 12.2Kbps | Front | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | 0.1 | 0.687 | 0.693 |
| | WCDMA II | RMC 12.2Kbps | Back | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | -0.07 | 0.837 | 0.845 |
| | WCDMA II | RMC 12.2Kbps | Back | 5mm | ON | 9262 | 1852.4 | 16.85 | 17.00 | 1.035 | 0.05 | 0.810 | 0.838 |
| | WCDMA II | RMC 12.2Kbps | Back | 5mm | ON | 9400 | 1880 | 16.78 | 17.00 | 1.052 | 0.15 | 0.799 | 0.841 |
| | WCDMA II | RMC 12.2Kbps | Left Side | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | 0.11 | 0.054 | 0.054 |
| | WCDMA II | RMC 12.2Kbps | Right Side | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | 0.15 | 0.106 | 0.107 |
| 29 | WCDMA II | RMC 12.2Kbps | Bottom Side | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | -0.11 | 1.300 | 1.312 |
| | WCDMA II | RMC 12.2Kbps | Bottom Side | 5mm | ON | 9262 | 1852.4 | 16.85 | 17.00 | 1.035 | -0.11 | 1.180 | 1.221 |
| | WCDMA II | RMC 12.2Kbps | Bottom Side | 5mm | ON | 9400 | 1880 | 16.78 | 17.00 | 1.052 | -0.1 | 1.130 | 1.189 |
| | WCDMA IV | RMC 12.2Kbps | Front | 5mm | ON | 1413 | 1732.6 | 16.88 | 17.00 | 1.028 | -0.04 | 0.558 | 0.574 |
| | WCDMA IV | RMC 12.2Kbps | Back | 5mm | ON | 1413 | 1732.6 | 16.88 | 17.00 | 1.028 | -0.01 | 0.841 | 0.865 |
| | WCDMA IV | RMC 12.2Kbps | Back | 5mm | ON | 1312 | 1712.4 | 16.86 | 17.00 | 1.033 | 0 | 0.826 | 0.853 |
| | WCDMA IV | RMC 12.2Kbps | Back | 5mm | ON | 1513 | 1752.6 | 16.82 | 17.00 | 1.042 | -0.1 | 0.916 | 0.955 |
| | WCDMA IV | RMC 12.2Kbps | Left Side | 5mm | ON | 1413 | 1732.6 | 16.88 | 17.00 | 1.028 | -0.09 | 0.191 | 0.196 |
| | WCDMA IV | RMC 12.2Kbps | Right Side | 5mm | ON | 1413 | 1732.6 | 16.88 | 17.00 | 1.028 | -0.07 | 0.062 | 0.064 |
| | WCDMA IV | RMC 12.2Kbps | Bottom Side | 5mm | ON | 1413 | 1732.6 | 16.88 | 17.00 | 1.028 | 0.03 | 1.040 | 1.069 |
| | WCDMA IV | RMC 12.2Kbps | Bottom Side | 5mm | ON | 1312 | 1712.4 | 16.86 | 17.00 | 1.033 | 0.06 | 1.010 | 1.043 |
| 30 | WCDMA IV | RMC 12.2Kbps | Bottom Side | 5mm | ON | 1513 | 1752.6 | 16.82 | 17.00 | 1.042 | 0.18 | 1.050 | 1.094 |
| | WCDMA V | RMC 12.2Kbps | Front | 5mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | 0.03 | 0.446 | 0.518 |
| | WCDMA V | RMC 12.2Kbps | Back | 5mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | -0.05 | 0.523 | 0.607 |
| | WCDMA V | RMC 12.2Kbps | Back | 5mm | OFF | 4182 | 836.4 | 23.22 | 24.00 | 1.197 | -0.05 | 0.512 | 0.613 |
| 31 | WCDMA V | RMC 12.2Kbps | Back | 5mm | OFF | 4132 | 826.4 | 23.21 | 24.00 | 1.199 | -0.05 | 0.512 | 0.614 |
| | WCDMA V | RMC 12.2Kbps | Left Side | 5mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | -0.12 | 0.171 | 0.199 |
| | WCDMA V | RMC 12.2Kbps | Right Side | 5mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | -0.18 | 0.193 | 0.224 |
| | WCDMA V | RMC 12.2Kbps | Bottom Side | 5mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | -0.09 | 0.396 | 0.460 |

<CDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | CDMA BC0 | RTAP 153.6Kbps | Front | 5mm | OFF | 384 | 836.52 | 23.77 | 25.00 | 1.327 | 0.11 | 0.630 | 0.836 |
| | CDMA BC0 | RTAP 153.6Kbps | Front | 5mm | OFF | 1013 | 824.7 | 23.61 | 25.00 | 1.377 | 0.15 | 0.552 | 0.760 |
| | CDMA BC0 | RTAP 153.6Kbps | Front | 5mm | OFF | 777 | 848.31 | 23.53 | 25.00 | 1.403 | 0.17 | 0.647 | 0.908 |
| | CDMA BC0 | RTAP 153.6Kbps | Back | 5mm | OFF | 384 | 836.52 | 23.77 | 25.00 | 1.327 | -0.14 | 0.655 | 0.869 |
| | CDMA BC0 | RTAP 153.6Kbps | Back | 5mm | OFF | 1013 | 824.7 | 23.61 | 25.00 | 1.377 | -0.11 | 0.589 | 0.811 |
| 32 | CDMA BC0 | RTAP 153.6Kbps | Back | 5mm | OFF | 777 | 848.31 | 23.53 | 25.00 | 1.403 | -0.17 | 0.663 | 0.930 |
| | CDMA BC0 | RTAP 153.6Kbps | Left Side | 5mm | OFF | 384 | 836.52 | 23.77 | 25.00 | 1.327 | -0.07 | 0.194 | 0.258 |
| | CDMA BC0 | RTAP 153.6Kbps | Right Side | 5mm | OFF | 384 | 836.52 | 23.77 | 25.00 | 1.327 | -0.04 | 0.250 | 0.332 |
| | CDMA BC0 | RTAP 153.6Kbps | Bottom Side | 5mm | OFF | 384 | 836.52 | 23.77 | 25.00 | 1.327 | 0.14 | 0.236 | 0.313 |
| | CDMA BC1 | RTAP 153.6Kbps | Front | 5mm | ON | 1175 | 1908.75 | 17.18 | 17.50 | 1.076 | 0.06 | 0.610 | 0.657 |
| | CDMA BC1 | RTAP 153.6Kbps | Back | 5mm | ON | 1175 | 1908.75 | 17.18 | 17.50 | 1.076 | 0.14 | 0.834 | 0.898 |
| | CDMA BC1 | RTAP 153.6Kbps | Back | 5mm | ON | 600 | 1880 | 17.00 | 17.50 | 1.122 | 0.14 | 0.792 | 0.889 |
| | CDMA BC1 | RTAP 153.6Kbps | Back | 5mm | ON | 25 | 1851.25 | 16.97 | 17.50 | 1.130 | 0.14 | 0.817 | 0.923 |
| | CDMA BC1 | RTAP 153.6Kbps | Left Side | 5mm | ON | 1175 | 1908.75 | 17.18 | 17.50 | 1.076 | 0.03 | 0.053 | 0.057 |
| | CDMA BC1 | RTAP 153.6Kbps | Right Side | 5mm | ON | 1175 | 1908.75 | 17.18 | 17.50 | 1.076 | -0.08 | 0.056 | 0.060 |
| | CDMA BC1 | RTAP 153.6Kbps | Bottom Side | 5mm | ON | 1175 | 1908.75 | 17.18 | 17.50 | 1.076 | 0.02 | 1.060 | 1.141 |
| 33 | CDMA BC1 | RTAP 153.6Kbps | Bottom Side | 5mm | ON | 600 | 1880 | 17.00 | 17.50 | 1.122 | 0.09 | 1.030 | 1.156 |
| | CDMA BC1 | RTAP 153.6Kbps | Bottom Side | 5mm | ON | 25 | 1851.25 | 16.97 | 17.50 | 1.130 | 0.15 | 1.000 | 1.130 |

<FDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5mm | ON | 21100 | 2535 | 20.82 | 21.50 | 1.169 | 0.12 | 0.295 | 0.345 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 5mm | ON | 21100 | 2535 | 20.77 | 21.50 | 1.183 | 0.17 | 0.302 | 0.357 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 21100 | 2535 | 20.82 | 21.50 | 1.169 | 0.02 | 0.400 | 0.468 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5mm | ON | 21100 | 2535 | 20.77 | 21.50 | 1.183 | 0.05 | 0.393 | 0.465 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Left Side | 5mm | ON | 21100 | 2535 | 20.82 | 21.50 | 1.169 | 0.05 | 0.037 | 0.043 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Left Side | 5mm | ON | 21100 | 2535 | 20.77 | 21.50 | 1.183 | 0.01 | 0.035 | 0.041 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Right Side | 5mm | ON | 21100 | 2535 | 20.82 | 21.50 | 1.169 | 0.01 | 0.012 | 0.014 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Right Side | 5mm | ON | 21100 | 2535 | 20.77 | 21.50 | 1.183 | 0.03 | 0.008 | 0.009 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 21100 | 2535 | 20.82 | 21.50 | 1.169 | 0.19 | 0.786 | 0.919 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 20850 | 2510 | 20.63 | 21.50 | 1.222 | 0.14 | 0.749 | 0.915 |
| 34 | LTE Band 7 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 21350 | 2560 | 20.80 | 21.50 | 1.175 | 0.12 | 0.981 | 1.153 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 21100 | 2535 | 20.77 | 21.50 | 1.183 | 0.17 | 0.925 | 1.094 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 20850 | 2510 | 20.71 | 21.50 | 1.199 | 0.17 | 0.948 | 1.137 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 21350 | 2560 | 20.64 | 21.50 | 1.219 | 0.14 | 0.873 | 1.064 |
| | LTE Band 7 | 20M | QPSK | 100 | 0 | Bottom Side | 5mm | ON | 21100 | 2535 | 20.77 | 21.50 | 1.183 | 0.16 | 0.909 | 1.075 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5mm | EN-DC ON | 21100 | 2535 | 18.91 | 19.00 | 1.021 | 0.14 | 0.203 | 0.207 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5mm | EN-DC ON | 21100 | 2535 | 18.91 | 19.00 | 1.021 | 0.11 | 0.263 | 0.269 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Left Side | 5mm | EN-DC ON | 21100 | 2535 | 18.91 | 19.00 | 1.021 | 0 | 0.018 | 0.018 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Right Side | 5mm | EN-DC ON | 21100 | 2535 | 18.91 | 19.00 | 1.021 | -0.08 | 0.012 | 0.012 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | EN-DC ON | 21100 | 2535 | 18.91 | 19.00 | 1.021 | -0.13 | 0.608 | 0.621 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Front | 5mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.03 | 0.351 | 0.443 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Front | 5mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0.06 | 0.343 | 0.440 |
| 35 | LTE Band 12 | 10M | QPSK | 1 | 0 | Back | 5mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.1 | 0.408 | 0.515 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Back | 5mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0.03 | 0.255 | 0.327 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Left Side | 5mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.03 | 0.144 | 0.182 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Left Side | 5mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0 | 0.129 | 0.165 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Right Side | 5mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | 0.03 | 0.178 | 0.225 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Right Side | 5mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0.06 | 0.141 | 0.181 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Bottom Side | 5mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.04 | 0.295 | 0.372 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Bottom Side | 5mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | -0.14 | 0.200 | 0.256 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Front | 5mm | EN-DC ON | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.03 | 0.351 | 0.443 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Back | 5mm | EN-DC ON | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.1 | 0.408 | 0.515 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Left Side | 5mm | EN-DC ON | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.03 | 0.144 | 0.182 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Right Side | 5mm | EN-DC ON | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | 0.03 | 0.178 | 0.225 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Bottom Side | 5mm | EN-DC ON | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.04 | 0.295 | 0.372 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Front | 5mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.12 | 0.700 | 0.906 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Front | 5mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | -0.16 | 0.404 | 0.516 |
| 36 | LTE Band 13 | 10M | QPSK | 1 | 0 | Back | 5mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.13 | 0.704 | 0.911 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Back | 5mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | -0.14 | 0.381 | 0.486 |
| | LTE Band 13 | 10M | QPSK | 50 | 0 | Back | 5mm | OFF | 23230 | 782 | 21.93 | 23.00 | 1.279 | -0.14 | 0.366 | 0.468 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Left Side | 5mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.01 | 0.186 | 0.241 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Left Side | 5mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | 0 | 0.107 | 0.137 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Right Side | 5mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.05 | 0.266 | 0.344 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Right Side | 5mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | 0.06 | 0.153 | 0.195 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Bottom Side | 5mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.13 | 0.588 | 0.761 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Bottom Side | 5mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | -0.16 | 0.289 | 0.369 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Front | 5mm | EN-DC ON | 23230 | 782 | 20.93 | 21.50 | 1.140 | 0 | 0.308 | 0.351 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Back | 5mm | EN-DC ON | 23230 | 782 | 20.93 | 21.50 | 1.140 | -0.12 | 0.459 | 0.523 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Left Side | 5mm | EN-DC ON | 23230 | 782 | 20.93 | 21.50 | 1.140 | -0.03 | 0.012 | 0.014 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Right Side | 5mm | EN-DC ON | 23230 | 782 | 20.93 | 21.50 | 1.140 | -0.05 | 0.059 | 0.067 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Bottom Side | 5mm | EN-DC ON | 23230 | 782 | 20.93 | 21.50 | 1.140 | 0.02 | 0.247 | 0.282 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5mm | ON | 26140 | 1860 | 16.99 | 17.00 | 1.002 | 0.1 | 0.378 | 0.379 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5mm | ON | 26140 | 1860 | 16.95 | 17.00 | 1.012 | 0.17 | 0.408 | 0.413 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 26140 | 1860 | 16.99 | 17.00 | 1.002 | 0.1 | 0.765 | 0.767 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 26340 | 1880 | 16.88 | 17.00 | 1.028 | -0.09 | 0.726 | 0.746 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 26590 | 1905 | 16.79 | 17.00 | 1.050 | 0.05 | 0.804 | 0.844 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5mm | ON | 26140 | 1860 | 16.95 | 17.00 | 1.012 | -0.08 | 0.768 | 0.777 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Back | 5mm | ON | 26140 | 1860 | 16.90 | 17.00 | 1.023 | 0.1 | 0.765 | 0.783 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Side | 5mm | ON | 26140 | 1860 | 16.99 | 17.00 | 1.002 | -0.09 | 0.048 | 0.048 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Left Side | 5mm | ON | 26140 | 1860 | 16.95 | 17.00 | 1.012 | -0.07 | 0.052 | 0.053 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Right Side | 5mm | ON | 26140 | 1860 | 16.99 | 17.00 | 1.002 | -0.07 | 0.062 | 0.062 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Right Side | 5mm | ON | 26140 | 1860 | 16.95 | 17.00 | 1.012 | -0.16 | 0.044 | 0.045 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 26140 | 1860 | 16.99 | 17.00 | 1.002 | -0.09 | 1.190 | 1.193 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 26340 | 1880 | 16.88 | 17.00 | 1.028 | -0.1 | 1.220 | 1.254 |
| 37 | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 26590 | 1905 | 16.79 | 17.00 | 1.050 | -0.19 | 1.250 | 1.312 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 26140 | 1860 | 16.95 | 17.00 | 1.012 | 0.13 | 1.160 | 1.173 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 26340 | 1880 | 16.86 | 17.00 | 1.033 | 0.13 | 1.160 | 1.198 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 26590 | 1905 | 16.90 | 17.00 | 1.023 | 0.13 | 1.160 | 1.187 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Bottom Side | 5mm | ON | 26140 | 1860 | 16.90 | 17.00 | 1.023 | 0.01 | 1.170 | 1.197 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5mm | EN-DC ON | 26590 | 1905 | 14.96 | 15.00 | 1.009 | 0.02 | 0.239 | 0.241 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5mm | EN-DC ON | 26590 | 1905 | 14.96 | 15.00 | 1.009 | -0.08 | 0.396 | 0.400 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Left Side | 5mm | EN-DC ON | 26590 | 1905 | 14.96 | 15.00 | 1.009 | 0.04 | 0.003 | 0.003 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Right Side | 5mm | EN-DC ON | 26590 | 1905 | 14.96 | 15.00 | 1.009 | -0.03 | 0.002 | 0.002 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | EN-DC ON | 26590 | 1905 | 14.96 | 15.00 | 1.009 | -0.13 | 0.687 | 0.693 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Front | 5mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.14 | 0.568 | 0.702 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Front | 5mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.08 | 0.490 | 0.578 |
| 38 | LTE Band 26 | 15M | QPSK | 1 | 74 | Back | 5mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.16 | 0.688 | 0.850 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Back | 5mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.18 | 0.519 | 0.613 |
| | LTE Band 26 | 15M | QPSK | 75 | 0 | Back | 5mm | OFF | 26865 | 831.5 | 22.23 | 23.00 | 1.194 | -0.16 | 0.507 | 0.605 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Left Side | 5mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.02 | 0.196 | 0.242 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Left Side | 5mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.12 | 0.112 | 0.132 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Right Side | 5mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.19 | 0.300 | 0.371 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Right Side | 5mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.14 | 0.184 | 0.217 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Bottom Side | 5mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.09 | 0.404 | 0.499 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Bottom Side | 5mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.16 | 0.311 | 0.367 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Front | 5mm | EN-DC ON | 26865 | 831.5 | 22.00 | 22.50 | 1.122 | -0.09 | 0.283 | 0.318 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Back | 5mm | EN-DC ON | 26865 | 831.5 | 22.00 | 22.50 | 1.122 | -0.12 | 0.463 | 0.519 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Left Side | 5mm | EN-DC ON | 26865 | 831.5 | 22.00 | 22.50 | 1.122 | 0 | 0.105 | 0.118 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Right Side | 5mm | EN-DC ON | 26865 | 831.5 | 22.00 | 22.50 | 1.122 | -0.04 | 0.062 | 0.070 |
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Bottom Side | 5mm | EN-DC ON | 26865 | 831.5 | 22.00 | 22.50 | 1.122 | 0.06 | 0.287 | 0.322 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 5mm | ON | 27710 | 2310 | 16.41 | 17.50 | 1.285 | -0.08 | 0.386 | 0.496 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | -0.09 | 0.395 | 0.540 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 5mm | ON | 27710 | 2310 | 16.41 | 17.50 | 1.285 | -0.07 | 0.512 | 0.658 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | -0.07 | 0.517 | 0.707 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Left Side | 5mm | ON | 27710 | 2310 | 16.41 | 17.50 | 1.285 | -0.17 | 0.016 | 0.021 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Left Side | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | -0.19 | 0.016 | 0.022 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Right Side | 5mm | ON | 27710 | 2310 | 16.41 | 17.50 | 1.285 | 0.12 | 0.045 | 0.058 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Right Side | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | 0.05 | 0.046 | 0.063 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 27710 | 2310 | 16.41 | 17.50 | 1.285 | -0.13 | 0.833 | 1.071 |
| 39 | LTE Band 30 | 10M | QPSK | 25 | 0 | Bottom Side | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | -0.13 | 0.848 | 1.160 |
| | LTE Band 30 | 10M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 27710 | 2310 | 16.13 | 17.50 | 1.371 | 0.11 | 0.828 | 1.135 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 5mm | EN-DC ON | 27710 | 2310 | 15.61 | 16.00 | 1.094 | 0.02 | 0.196 | 0.214 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 5mm | EN-DC ON | 27710 | 2310 | 15.61 | 16.00 | 1.094 | 0.17 | 0.317 | 0.347 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Left Side | 5mm | EN-DC ON | 27710 | 2310 | 15.61 | 16.00 | 1.094 | -0.02 | 0.002 | 0.002 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Right Side | 5mm | EN-DC ON | 27710 | 2310 | 15.61 | 16.00 | 1.094 | 0.13 | 0.004 | 0.004 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Bottom Side | 5mm | EN-DC ON | 27710 | 2310 | 15.61 | 16.00 | 1.094 | 0.16 | 0.633 | 0.692 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5mm | ON | 132072 | 1720 | 16.55 | 17.00 | 1.109 | -0.02 | 0.284 | 0.315 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Front | 5mm | ON | 132072 | 1720 | 16.25 | 17.00 | 1.189 | 0.08 | 0.296 | 0.352 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 132072 | 1720 | 16.55 | 17.00 | 1.109 | 0.17 | 0.479 | 0.531 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Back | 5mm | ON | 132072 | 1720 | 16.25 | 17.00 | 1.189 | -0.03 | 0.453 | 0.538 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Side | 5mm | ON | 132072 | 1720 | 16.55 | 17.00 | 1.109 | -0.1 | 0.048 | 0.053 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Left Side | 5mm | ON | 132072 | 1720 | 16.25 | 17.00 | 1.189 | 0.07 | 0.043 | 0.051 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Right Side | 5mm | ON | 132072 | 1720 | 16.55 | 17.00 | 1.109 | 0.15 | 0.087 | 0.096 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Right Side | 5mm | ON | 132072 | 1720 | 16.25 | 17.00 | 1.189 | -0.16 | 0.065 | 0.077 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 132072 | 1720 | 16.55 | 17.00 | 1.109 | -0.13 | 0.907 | 1.006 |
| 40 | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 132572 | 1770 | 16.40 | 17.00 | 1.148 | -0.01 | 1.090 | 1.251 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | ON | 132322 | 1745 | 16.53 | 17.00 | 1.114 | -0.13 | 1.000 | 1.114 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 132072 | 1720 | 16.25 | 17.00 | 1.189 | -0.14 | 0.884 | 1.051 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 132572 | 1770 | 16.04 | 17.00 | 1.247 | 0.06 | 0.982 | 1.225 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | ON | 132322 | 1745 | 16.18 | 17.00 | 1.208 | 0.12 | 0.983 | 1.187 |
| | LTE Band 66 | 20M | QPSK | 100 | 0 | Bottom Side | 5mm | ON | 132072 | 1720 | 16.21 | 17.00 | 1.199 | 0.02 | 0.878 | 1.053 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5mm | EN-DC ON | 132572 | 1770 | 13.97 | 14.00 | 1.007 | 0.03 | 0.226 | 0.228 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5mm | EN-DC ON | 132572 | 1770 | 13.97 | 14.00 | 1.007 | -0.07 | 0.360 | 0.362 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Left Side | 5mm | EN-DC ON | 132572 | 1770 | 13.97 | 14.00 | 1.007 | 0.16 | 0.012 | 0.012 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Right Side | 5mm | EN-DC ON | 132572 | 1770 | 13.97 | 14.00 | 1.007 | -0.09 | 0.008 | 0.008 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | EN-DC ON | 132572 | 1770 | 13.97 | 14.00 | 1.007 | 0.14 | 0.526 | 0.530 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Front | 5mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.12 | 0.343 | 0.411 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Front | 5mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.1 | 0.272 | 0.287 |
| 41 | LTE Band 71 | 20M | QPSK | 1 | 0 | Back | 5mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.05 | 0.438 | 0.525 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Back | 5mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.15 | 0.328 | 0.347 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Left Side | 5mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.16 | 0.148 | 0.178 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Left Side | 5mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.1 | 0.093 | 0.098 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Right Side | 5mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.17 | 0.192 | 0.230 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Right Side | 5mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.14 | 0.134 | 0.142 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Bottom Side | 5mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.14 | 0.178 | 0.214 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Bottom Side | 5mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.1 | 0.175 | 0.185 |

<TDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 5mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.13 | 0.240 | 0.277 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Front | 5mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | -0.16 | 0.185 | 0.209 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 5mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.09 | 0.328 | 0.378 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Back | 5mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | -0.01 | 0.242 | 0.274 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Left Side | 5mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | 0.03 | 0.121 | 0.139 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Left Side | 5mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | 0.07 | 0.091 | 0.103 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Right Side | 5mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.06 | 0.043 | 0.050 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Right Side | 5mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | 0.18 | 0.027 | 0.031 |
| 42 | LTE Band 41 | 20M | QPSK | 1 | 99 | Bottom Side | 5mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.06 | 0.623 | 0.718 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Bottom Side | 5mm | OFF | 39750 | 2506 | 23.17 | 24.00 | 1.211 | 62.9 | 1.006 | 0.02 | 0.579 | 0.705 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Bottom Side | 5mm | OFF | 40185 | 2549.5 | 23.21 | 24.00 | 1.199 | 62.9 | 1.006 | 0.04 | 0.581 | 0.701 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Bottom Side | 5mm | OFF | 40620 | 2593 | 23.35 | 24.00 | 1.161 | 62.9 | 1.006 | 0.11 | 0.562 | 0.657 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Bottom Side | 5mm | OFF | 41055 | 2636.5 | 23.28 | 24.00 | 1.180 | 62.9 | 1.006 | -0.03 | 0.571 | 0.678 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Bottom Side | 5mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | -0.04 | 0.420 | 0.475 |
| | LTE Band 41 | 20M | QPSK | 100 | 0 | Bottom Side | 5mm | OFF | 41490 | 2680 | 22.45 | 23.00 | 1.135 | 62.9 | 1.006 | 0.06 | 0.388 | 0.443 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 5mm | EN-DC ON | 41490 | 2680 | 21.45 | 21.50 | 1.012 | 62.9 | 1.006 | 0.01 | 0.162 | 0.165 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 5mm | EN-DC ON | 41490 | 2680 | 21.45 | 21.50 | 1.012 | 62.9 | 1.006 | 0.02 | 0.188 | 0.191 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Left Side | 5mm | EN-DC ON | 41490 | 2680 | 21.45 | 21.50 | 1.012 | 62.9 | 1.006 | -0.08 | 0.063 | 0.064 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Right Side | 5mm | EN-DC ON | 41490 | 2680 | 21.45 | 21.50 | 1.012 | 62.9 | 1.006 | 0.15 | 0.022 | 0.022 |
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Bottom Side | 5mm | EN-DC ON | 41490 | 2680 | 21.45 | 21.50 | 1.012 | 62.9 | 1.006 | 0.05 | 0.498 | 0.507 |



<5N NR SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Front | 5mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | 0.09 | 0.046 | 0.048 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Front | 5mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | 0.05 | 0.041 | 0.043 |
| 43 | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Back | 5mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | -0.11 | 0.055 | 0.057 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Back | 5mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | 0.03 | 0.052 | 0.054 |
| | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Left Side | 5mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | 0.04 | 0.001 | 0.001 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Left Side | 5mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | 0.01 | 0.001 | 0.001 |
| | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Right Side | 5mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | 0.15 | 0.001 | 0.001 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Right Side | 5mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | -0.18 | 0.001 | 0.001 |
| | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Top Side | 5mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | -0.05 | 0.035 | 0.036 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Top Side | 5mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | 0.07 | 0.033 | 0.034 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Front | 5mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | 0.05 | 0.201 | 0.206 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Front | 5mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | 0.01 | 0.192 | 0.204 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Back | 5mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | -0.13 | 0.687 | 0.705 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Back | 5mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | -0.01 | 0.667 | 0.710 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Left Side | 5mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | -0.14 | 0.052 | 0.053 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Left Side | 5mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | -0.14 | 0.047 | 0.050 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Right Side | 5mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | 0.03 | 0.001 | 0.001 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Right Side | 5mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | 0.03 | 0.001 | 0.001 |
| 45 | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Top Side | 5mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | -0.14 | 0.730 | 0.749 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Top Side | 5mm | OFF | 346000 | 1730 | 23.76 | 24.00 | 1.057 | 0.02 | 0.702 | 0.742 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Top Side | 5mm | OFF | 352000 | 1760 | 23.80 | 24.00 | 1.047 | -0.09 | 0.710 | 0.743 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Top Side | 5mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | -0.14 | 0.688 | 0.732 |
| | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Front | 5mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | 0.05 | 0.033 | 0.033 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Front | 5mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | 0.05 | 0.029 | 0.030 |
| 46 | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Back | 5mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | -0.16 | 0.121 | 0.122 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Back | 5mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | -0.16 | 0.115 | 0.119 |
| | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Left Side | 5mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | -0.02 | 0.029 | 0.029 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Left Side | 5mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | -0.02 | 0.024 | 0.025 |
| | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Right Side | 5mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | 0.07 | 0.001 | 0.001 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Right Side | 5mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | 0.07 | 0.001 | 0.001 |
| | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Top Side | 5mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | 0.13 | 0.039 | 0.039 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Top Side | 5mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | 0.13 | 0.036 | 0.037 |



<WLAN SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Output Power Status | Ch. | Freq. (MHz) | 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) |
|----------|------------|---------------------|---------------|----------|---------|---------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 5mm | Ant 4 | 2 | 1 | 2412 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | 0.02 | 0.001 | 0.001 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 2 | 1 | 2412 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | -0.15 | 0.077 | 0.084 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 2 | 6 | 2437 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | -0.19 | 0.075 | 0.082 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 2 | 11 | 2462 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | -0.06 | 0.076 | 0.083 |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Side | 5mm | Ant 4 | 2 | 1 | 2412 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | 0.04 | 0.012 | 0.013 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Side | 5mm | Ant 4 | 2 | 1 | 2412 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN2.4GHz | 802.11b 1Mbps | Top Side | 5mm | Ant 4 | 2 | 1 | 2412 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 5mm | Ant 4+6 | 2 | 1 | 2412 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 2 | 1 | 2412 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | -0.11 | 0.278 | 0.281 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 2 | 6 | 2437 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | 0.03 | 0.291 | 0.294 |
| 48 | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 2 | 11 | 2462 | 14.26 | 14.40 | 1.032 | 100 | 1.000 | 0.11 | 0.297 | 0.306 |
| | WLAN2.4GHz | 802.11b 1Mbps | Left Side | 5mm | Ant 4+6 | 2 | 1 | 2412 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | -0.01 | 0.007 | 0.007 |
| | WLAN2.4GHz | 802.11b 1Mbps | Right Side | 5mm | Ant 4+6 | 2 | 1 | 2412 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | 0.06 | 0.015 | 0.015 |
| | WLAN2.4GHz | 802.11b 1Mbps | Top Side | 5mm | Ant 4+6 | 2 | 1 | 2412 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | 0.01 | 0.143 | 0.145 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 5mm | Ant 3+6 | 2 | 42 | 5210 | 11.38 | 11.70 | 1.076 | 100 | 1.000 | -0.09 | 0.001 | 0.001 |
| 49 | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 2 | 42 | 5210 | 11.38 | 11.70 | 1.076 | 100 | 1.000 | 0.16 | 0.103 | 0.111 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side | 5mm | Ant 3+6 | 2 | 42 | 5210 | 11.38 | 11.70 | 1.076 | 100 | 1.000 | 0.14 | 0.011 | 0.012 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side | 5mm | Ant 3+6 | 2 | 42 | 5210 | 11.38 | 11.70 | 1.076 | 100 | 1.000 | 0.1 | 0.005 | 0.006 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side | 5mm | Ant 3+6 | 2 | 42 | 5210 | 11.38 | 11.70 | 1.076 | 100 | 1.000 | -0.14 | 0.038 | 0.041 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 5mm | Ant 3+6 | 2 | 155 | 5775 | 11.53 | 11.70 | 1.040 | 100 | 1.000 | 0.03 | 0.001 | 0.001 |
| 50 | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 2 | 155 | 5775 | 11.53 | 11.70 | 1.040 | 100 | 1.000 | -0.16 | 0.089 | 0.093 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side | 5mm | Ant 3+6 | 2 | 155 | 5775 | 11.53 | 11.70 | 1.040 | 100 | 1.000 | 0.02 | 0.013 | 0.014 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side | 5mm | Ant 3+6 | 2 | 155 | 5775 | 11.53 | 11.70 | 1.040 | 100 | 1.000 | 0.05 | 0.007 | 0.007 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side | 5mm | Ant 3+6 | 2 | 155 | 5775 | 11.53 | 11.70 | 1.040 | 100 | 1.000 | 0.11 | 0.073 | 0.076 |



<Bluetooth SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | 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) |
|----------|-----------|-------|---------------|----------|---------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | Bluetooth | 1Mbps | Front | 5mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | 0.03 | 0.001 | 0.001 |
| 51 | Bluetooth | 1Mbps | Back | 5mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | -0.03 | 0.208 | 0.251 |
| | Bluetooth | 1Mbps | Back | 5mm | Ant 6 | 00 | 2402 | 16.05 | 17.50 | 1.396 | 76.84 | 1.084 | -0.01 | 0.121 | 0.183 |
| | Bluetooth | 1Mbps | Back | 5mm | Ant 6 | 78 | 2480 | 16.10 | 17.50 | 1.380 | 76.84 | 1.084 | 0.14 | 0.140 | 0.209 |
| | Bluetooth | 1Mbps | Right Side | 5mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | -0.05 | 0.043 | 0.052 |
| | Bluetooth | 1Mbps | Top Side | 5mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | 0.03 | 0.001 | 0.001 |

17.3 Body Worn Accessory SAR

<GSM SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | GSM850 | GPRS (3 Tx slots) | Front | 5mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | -0.11 | 0.571 | 0.608 |
| | GSM850 | GPRS (3 Tx slots) | Back | 5mm | OFF | 128 | 824.2 | 30.23 | 30.50 | 1.064 | -0.17 | 0.786 | 0.836 |
| | GSM850 | GPRS (3 Tx slots) | Back | 5mm | OFF | 189 | 836.4 | 29.56 | 30.50 | 1.242 | 0.04 | 0.498 | 0.618 |
| 52 | GSM850 | GPRS (3 Tx slots) | Back | 5mm | OFF | 251 | 848.8 | 28.94 | 30.50 | 1.432 | -0.13 | 0.793 | 1.136 |
| | GSM1900 | GPRS (4 Tx slots) | Front | 5mm | ON | 810 | 1909.8 | 19.98 | 20.00 | 1.005 | 0.01 | 0.552 | 0.555 |
| 53 | GSM1900 | GPRS (4 Tx slots) | Back | 5mm | ON | 810 | 1909.8 | 19.98 | 20.00 | 1.005 | 0 | 0.588 | 0.591 |
| | GSM1900 | GPRS (4 Tx slots) | Back | 5mm | ON | 512 | 1850.2 | 19.82 | 20.00 | 1.042 | 0 | 0.511 | 0.533 |
| | GSM1900 | GPRS (4 Tx slots) | Back | 5mm | ON | 661 | 1880 | 19.97 | 20.00 | 1.007 | 0 | 0.536 | 0.540 |
| | GSM1900 | GPRS (2 Tx slots) | Front | 14mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | 0.03 | 0.365 | 0.539 |
| | GSM1900 | GPRS (2 Tx slots) | Back | 18mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | 0.015 | 0.358 | 0.528 |

<WCDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | WCDMA II | RMC 12.2Kbps | Front | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | 0.1 | 0.687 | 0.693 |
| 54 | WCDMA II | RMC 12.2Kbps | Back | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | -0.07 | 0.837 | 0.845 |
| | WCDMA II | RMC 12.2Kbps | Back | 5mm | ON | 9262 | 1852.4 | 16.85 | 17.00 | 1.035 | 0.05 | 0.810 | 0.838 |
| | WCDMA II | RMC 12.2Kbps | Back | 5mm | ON | 9400 | 1880 | 16.78 | 17.00 | 1.052 | 0.15 | 0.799 | 0.841 |
| | WCDMA II | RMC 12.2Kbps | Front | 14mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | 0.01 | 0.524 | 0.627 |
| | WCDMA II | RMC 12.2Kbps | Back | 18mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | 0.03 | 0.350 | 0.419 |
| | WCDMA IV | RMC 12.2Kbps | Front | 5mm | ON | 1413 | 1732.6 | 16.88 | 17.00 | 1.028 | -0.04 | 0.558 | 0.574 |
| | WCDMA IV | RMC 12.2Kbps | Back | 5mm | ON | 1413 | 1732.6 | 16.88 | 17.00 | 1.028 | -0.01 | 0.841 | 0.865 |
| | WCDMA IV | RMC 12.2Kbps | Back | 5mm | ON | 1312 | 1712.4 | 16.86 | 17.00 | 1.033 | 0 | 0.826 | 0.853 |
| 55 | WCDMA IV | RMC 12.2Kbps | Back | 5mm | ON | 1513 | 1752.6 | 16.82 | 17.00 | 1.042 | -0.1 | 0.916 | 0.955 |
| | WCDMA IV | RMC 12.2Kbps | Front | 14mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | 0.05 | 0.311 | 0.354 |
| | WCDMA IV | RMC 12.2Kbps | Back | 18mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | 0.14 | 0.189 | 0.215 |
| | WCDMA V | RMC 12.2Kbps | Front | 5mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | 0.03 | 0.446 | 0.518 |
| | WCDMA V | RMC 12.2Kbps | Back | 5mm | OFF | 4233 | 846.6 | 23.35 | 24.00 | 1.161 | -0.05 | 0.523 | 0.607 |
| | WCDMA V | RMC 12.2Kbps | Back | 5mm | OFF | 4182 | 836.4 | 23.22 | 24.00 | 1.197 | -0.05 | 0.512 | 0.613 |
| 56 | WCDMA V | RMC 12.2Kbps | Back | 5mm | OFF | 4132 | 826.4 | 23.21 | 24.00 | 1.199 | -0.05 | 0.512 | 0.614 |



<CDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|----------|----------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | CDMA BC0 | 1xRTT RC3 SO32 | Front | 5mm | OFF | 1013 | 824.7 | 23.92 | 25.00 | 1.282 | 0.16 | 0.511 | 0.655 |
| | CDMA BC0 | 1xRTT RC3 SO32 | Back | 5mm | OFF | 1013 | 824.7 | 23.92 | 25.00 | 1.282 | -0.13 | 0.608 | 0.780 |
| 57 | CDMA BC0 | 1xRTT RC3 SO32 | Back | 5mm | OFF | 384 | 836.52 | 23.70 | 25.00 | 1.349 | -0.11 | 0.659 | 0.889 |
| | CDMA BC0 | 1xRTT RC3 SO32 | Back | 5mm | OFF | 777 | 848.31 | 23.75 | 25.00 | 1.334 | -0.12 | 0.665 | 0.887 |
| | CDMA BC1 | 1xRTT RC3 SO32 | Front | 5mm | ON | 1175 | 1908.75 | 17.23 | 17.50 | 1.064 | 0.06 | 0.623 | 0.663 |
| 58 | CDMA BC1 | 1xRTT RC3 SO32 | Back | 5mm | ON | 1175 | 1908.75 | 17.23 | 17.50 | 1.064 | -0.11 | 0.878 | 0.934 |
| | CDMA BC1 | 1xRTT RC3 SO32 | Back | 5mm | ON | 600 | 1880 | 17.06 | 17.50 | 1.107 | 0.03 | 0.807 | 0.892 |
| | CDMA BC1 | 1xRTT RC3 SO32 | Back | 5mm | ON | 25 | 1851.25 | 17.11 | 17.50 | 1.094 | 0.02 | 0.811 | 0.887 |
| | CDMA BC1 | 1xRTT RC3 SO32 | Front | 14mm | OFF | 1175 | 1908.75 | 24.26 | 25.00 | 1.186 | 0.03 | 0.413 | 0.490 |
| | CDMA BC1 | 1xRTT RC3 SO32 | Back | 18mm | OFF | 1175 | 1908.75 | 24.26 | 25.00 | 1.186 | 0.15 | 0.422 | 0.500 |

<FDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Front | 5mm | ON | 21100 | 2535 | 20.82 | 21.50 | 1.169 | 0.12 | 0.295 | 0.345 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Front | 5mm | ON | 21100 | 2535 | 20.77 | 21.50 | 1.183 | 0.17 | 0.302 | 0.357 |
| 59 | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 21100 | 2535 | 20.82 | 21.50 | 1.169 | 0.02 | 0.400 | 0.468 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 20850 | 2510 | 20.63 | 21.50 | 1.222 | 0.06 | 0.378 | 0.462 |
| | LTE Band 7 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 21350 | 2560 | 20.80 | 21.50 | 1.175 | -0.04 | 0.361 | 0.424 |
| | LTE Band 7 | 20M | QPSK | 50 | 0 | Back | 5mm | ON | 21100 | 2535 | 20.77 | 21.50 | 1.183 | 0.05 | 0.393 | 0.465 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Front | 14mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | 0.03 | 0.176 | 0.204 |
| | LTE Band 7 | 20M | QPSK | 50 | 50 | Front | 14mm | OFF | 21100 | 2535 | 22.37 | 23.00 | 1.156 | 0.15 | 0.162 | 0.187 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Back | 18mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | -0.09 | 0.188 | 0.218 |
| | LTE Band 7 | 20M | QPSK | 50 | 50 | Back | 18mm | OFF | 21100 | 2535 | 22.37 | 23.00 | 1.156 | 0.14 | 0.187 | 0.216 |
| | LTE Band 12 | 10M | QPSK | 1 | 0 | Front | 5mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.03 | 0.351 | 0.443 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Front | 5mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0.06 | 0.343 | 0.440 |
| 60 | LTE Band 12 | 10M | QPSK | 1 | 0 | Back | 5mm | OFF | 23095 | 707.5 | 22.99 | 24.00 | 1.262 | -0.1 | 0.428 | 0.540 |
| | LTE Band 12 | 10M | QPSK | 25 | 0 | Back | 5mm | OFF | 23095 | 707.5 | 21.92 | 23.00 | 1.282 | 0.03 | 0.255 | 0.327 |
| | LTE Band 13 | 10M | QPSK | 1 | 0 | Front | 5mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.12 | 0.700 | 0.906 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Front | 5mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | -0.16 | 0.404 | 0.516 |
| | LTE Band 13 | 10M | QPSK | 50 | 0 | Front | 5mm | OFF | 23230 | 782 | 21.93 | 23.00 | 1.279 | 0.06 | 0.378 | 0.484 |
| 61 | LTE Band 13 | 10M | QPSK | 1 | 0 | Back | 5mm | OFF | 23230 | 782 | 22.88 | 24.00 | 1.294 | -0.13 | 0.704 | 0.911 |
| | LTE Band 13 | 10M | QPSK | 25 | 0 | Back | 5mm | OFF | 23230 | 782 | 21.94 | 23.00 | 1.276 | -0.14 | 0.381 | 0.486 |
| | LTE Band 13 | 10M | QPSK | 50 | 0 | Back | 5mm | OFF | 23230 | 782 | 21.93 | 23.00 | 1.279 | -0.14 | 0.366 | 0.468 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5mm | ON | 26140 | 1860 | 16.99 | 17.00 | 1.002 | 0.1 | 0.378 | 0.379 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 5mm | ON | 26140 | 1860 | 16.95 | 17.00 | 1.012 | 0.17 | 0.408 | 0.413 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 26140 | 1860 | 16.99 | 17.00 | 1.002 | 0.1 | 0.765 | 0.767 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 26340 | 1880 | 16.88 | 17.00 | 1.028 | -0.09 | 0.726 | 0.746 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 26590 | 1905 | 16.79 | 17.00 | 1.050 | 0.05 | 0.804 | 0.844 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 5mm | ON | 26140 | 1860 | 16.95 | 17.00 | 1.012 | -0.08 | 0.768 | 0.777 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Back | 5mm | ON | 26140 | 1860 | 16.89 | 17.00 | 1.026 | 0.1 | 0.765 | 0.785 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 14mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | -0.15 | 0.689 | 0.838 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 14mm | OFF | 26340 | 1880 | 22.99 | 24.00 | 1.262 | 0.02 | 0.702 | 0.886 |
| 62 | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 14mm | OFF | 26590 | 1905 | 23.08 | 24.00 | 1.236 | -0.13 | 0.729 | 0.901 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Front | 14mm | OFF | 26140 | 1860 | 22.16 | 23.00 | 1.213 | -0.14 | 0.574 | 0.696 |
| | LTE Band 25 | 20M | QPSK | 100 | 0 | Front | 14mm | OFF | 26140 | 1860 | 22.17 | 23.00 | 1.211 | -0.15 | 0.551 | 0.667 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 18mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | -0.01 | 0.605 | 0.736 |
| | LTE Band 25 | 20M | QPSK | 50 | 0 | Back | 18mm | OFF | 26140 | 1860 | 22.16 | 23.00 | 1.213 | -0.01 | 0.501 | 0.608 |



| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | LTE Band 26 | 15M | QPSK | 1 | 74 | Front | 5mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.14 | 0.568 | 0.702 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Front | 5mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.08 | 0.490 | 0.578 |
| 63 | LTE Band 26 | 15M | QPSK | 1 | 74 | Back | 5mm | OFF | 26865 | 831.5 | 23.08 | 24.00 | 1.236 | -0.16 | 0.688 | 0.850 |
| | LTE Band 26 | 15M | QPSK | 36 | 39 | Back | 5mm | OFF | 26865 | 831.5 | 22.28 | 23.00 | 1.180 | -0.18 | 0.519 | 0.613 |
| | LTE Band 26 | 15M | QPSK | 75 | 0 | Back | 5mm | OFF | 26865 | 831.5 | 22.23 | 23.00 | 1.194 | -0.16 | 0.507 | 0.605 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 5mm | ON | 27710 | 2310 | 16.41 | 17.50 | 1.285 | -0.08 | 0.386 | 0.496 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | -0.09 | 0.395 | 0.540 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 5mm | ON | 27710 | 2310 | 16.41 | 17.50 | 1.285 | -0.07 | 0.512 | 0.658 |
| 64 | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | -0.07 | 0.517 | 0.707 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 14mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | 0.03 | 0.226 | 0.303 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Front | 14mm | OFF | 27710 | 2310 | 21.77 | 23.00 | 1.327 | 0.15 | 0.216 | 0.287 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 18mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | -0.09 | 0.198 | 0.265 |
| | LTE Band 30 | 10M | QPSK | 25 | 0 | Back | 18mm | OFF | 27710 | 2310 | 21.77 | 23.00 | 1.327 | 0.14 | 0.177 | 0.235 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5mm | ON | 132072 | 1720 | 16.55 | 17.00 | 1.109 | -0.02 | 0.284 | 0.315 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Front | 5mm | ON | 132072 | 1720 | 16.25 | 17.00 | 1.189 | 0.08 | 0.296 | 0.352 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 5mm | ON | 132072 | 1720 | 16.55 | 17.00 | 1.109 | 0.17 | 0.479 | 0.531 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Back | 5mm | ON | 132072 | 1720 | 16.25 | 17.00 | 1.189 | -0.03 | 0.453 | 0.538 |
| 65 | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 14mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | -0.11 | 0.524 | 0.633 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 14mm | OFF | 132072 | 1720 | 23.17 | 24.00 | 1.211 | 0.03 | 0.511 | 0.619 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 14mm | OFF | 132572 | 1770 | 23.05 | 24.00 | 1.245 | -0.01 | 0.501 | 0.624 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Front | 14mm | OFF | 132322 | 1745 | 22.14 | 23.00 | 1.219 | -0.03 | 0.419 | 0.511 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 18mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | -0.14 | 0.453 | 0.547 |
| | LTE Band 66 | 20M | QPSK | 50 | 0 | Back | 18mm | OFF | 132322 | 1745 | 22.14 | 23.00 | 1.219 | -0.1 | 0.363 | 0.442 |
| | LTE Band 71 | 20M | QPSK | 1 | 0 | Front | 5mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.12 | 0.343 | 0.411 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Front | 5mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.1 | 0.272 | 0.287 |
| 66 | LTE Band 71 | 20M | QPSK | 1 | 0 | Back | 5mm | OFF | 133322 | 683 | 23.21 | 24.00 | 1.199 | -0.05 | 0.438 | 0.525 |
| | LTE Band 71 | 20M | QPSK | 50 | 0 | Back | 5mm | OFF | 133322 | 683 | 22.76 | 23.00 | 1.057 | -0.15 | 0.328 | 0.347 |

<TDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | 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) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|-------|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | LTE Band 41 | 20M | QPSK | 1 | 99 | Front | 5mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.13 | 0.240 | 0.277 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Front | 5mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | -0.16 | 0.185 | 0.209 |
| 67 | LTE Band 41 | 20M | QPSK | 1 | 99 | Back | 5mm | OFF | 41490 | 2680 | 23.41 | 24.00 | 1.146 | 62.9 | 1.006 | -0.09 | 0.328 | 0.378 |
| | LTE Band 41 | 20M | QPSK | 50 | 50 | Back | 5mm | OFF | 41490 | 2680 | 22.49 | 23.00 | 1.125 | 62.9 | 1.006 | -0.01 | 0.242 | 0.274 |



<5N NR SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|----------|---------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|------------------------|
| | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Front | 5mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | 0.09 | 0.046 | 0.048 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Front | 5mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | 0.09 | 0.033 | 0.034 |
| 68 | FR1 n5 | 20M | PI/2 BPSK | 1 | 1 | Back | 5mm | OFF | 167300 | 837 | 23.84 | 24.00 | 1.038 | -0.11 | 0.055 | 0.057 |
| | FR1 n5 | 20M | PI/2 BPSK | 50 | 0 | Back | 5mm | OFF | 167300 | 837 | 23.82 | 24.00 | 1.042 | -0.11 | 0.042 | 0.044 |
| | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Front | 5mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | 0.05 | 0.201 | 0.206 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Front | 5mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | 0.05 | 0.142 | 0.151 |
| 70 | FR1 n66 | 20M | PI/2 BPSK | 1 | 1 | Back | 5mm | OFF | 349000 | 1745 | 23.89 | 24.00 | 1.026 | -0.13 | 0.687 | 0.705 |
| | FR1 n66 | 20M | PI/2 BPSK | 50 | 0 | Back | 5mm | OFF | 349000 | 1745 | 23.73 | 24.00 | 1.064 | -0.13 | 0.535 | 0.569 |
| | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Front | 5mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | 0.05 | 0.033 | 0.033 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Front | 5mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | 0.05 | 0.021 | 0.022 |
| 71 | FR1 n71 | 20M | PI/2 BPSK | 1 | 1 | Back | 5mm | OFF | 136100 | 681 | 23.97 | 24.00 | 1.007 | -0.16 | 0.121 | 0.122 |
| | FR1 n71 | 20M | PI/2 BPSK | 50 | 0 | Back | 5mm | OFF | 136100 | 681 | 23.86 | 24.00 | 1.033 | -0.16 | 0.109 | 0.113 |



<WLAN SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Output Power Status | Ch. | Freq. (MHz) | 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) |
|----------|------------|---------------|---------------|----------|---------|---------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 5mm | Ant 4 | 6 | 1 | 2412 | 13.70 | 14.00 | 1.072 | 100 | 1.000 | 0.03 | 0.006 | 0.006 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 6 | 1 | 2412 | 13.70 | 14.00 | 1.072 | 100 | 1.000 | -0.04 | 0.155 | 0.166 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 6 | 6 | 2437 | 13.60 | 14.00 | 1.096 | 100 | 1.000 | -0.14 | 0.161 | 0.177 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 6 | 11 | 2462 | 13.60 | 14.00 | 1.096 | 100 | 1.000 | -0.18 | 0.163 | 0.179 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 14mm | Ant 4 | Default Max | 6 | 2437 | 17.70 | 17.80 | 1.023 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 18mm | Ant 4 | Default Max | 6 | 2437 | 17.70 | 17.80 | 1.023 | 100 | 1.000 | -0.15 | 0.072 | 0.074 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 5mm | Ant 4+6 | 6 | 1 | 2412 | 16.94 | 17.00 | 1.014 | 100 | 1.000 | 0.06 | 0.023 | 0.023 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 6 | 1 | 2412 | 16.94 | 17.00 | 1.014 | 100 | 1.000 | 0 | 0.507 | 0.514 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 6 | 6 | 2437 | 16.94 | 17.00 | 1.014 | 100 | 1.000 | -0.06 | 0.532 | 0.540 |
| 73 | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 6 | 11 | 2462 | 16.72 | 17.00 | 1.065 | 100 | 1.000 | -0.09 | 0.541 | 0.576 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 14mm | Ant 4+6 | Default Max | 1 | 2412 | 20.33 | 20.80 | 1.115 | 100 | 1.000 | -0.16 | 0.005 | 0.005 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 18mm | Ant 4+6 | Default Max | 1 | 2412 | 20.33 | 20.80 | 1.115 | 100 | 1.000 | -0.02 | 0.153 | 0.171 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 5mm | Ant 4 | 7 | 1 | 2412 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | 0.02 | 0.001 | 0.001 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 7 | 1 | 2412 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | -0.15 | 0.077 | 0.084 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 7 | 6 | 2437 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | -0.19 | 0.075 | 0.082 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4 | 7 | 11 | 2462 | 11.00 | 11.40 | 1.096 | 100 | 1.000 | -0.06 | 0.076 | 0.083 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 14mm | Ant 4 | 1 | 1 | 2412 | 14.10 | 14.30 | 1.047 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 18mm | Ant 4 | 1 | 1 | 2412 | 14.10 | 14.30 | 1.047 | 100 | 1.000 | 0.02 | 0.027 | 0.028 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 5mm | Ant 4+6 | 7 | 1 | 2412 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 7 | 1 | 2412 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | -0.11 | 0.278 | 0.281 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 7 | 6 | 2437 | 14.35 | 14.40 | 1.011 | 100 | 1.000 | 0.03 | 0.291 | 0.294 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 5mm | Ant 4+6 | 7 | 11 | 2462 | 14.26 | 14.40 | 1.032 | 100 | 1.000 | 0.11 | 0.297 | 0.306 |
| | WLAN2.4GHz | 802.11b 1Mbps | Front | 14mm | Ant 4+6 | 1 | 11 | 2462 | 17.22 | 17.30 | 1.017 | 100 | 1.000 | -0.16 | 0.003 | 0.003 |
| | WLAN2.4GHz | 802.11b 1Mbps | Back | 18mm | Ant 4+6 | 1 | 11 | 2462 | 17.22 | 17.30 | 1.017 | 100 | 1.000 | -0.02 | 0.077 | 0.078 |



| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Output Power Status | Ch. | Freq. (MHz) | 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) |
|----------|----------|---------------------|---------------|----------|---------|---------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 5mm | Ant 3+6 | 6 | 58 | 5290 | 13.87 | 13.90 | 1.007 | 100 | 1.000 | 0.05 | 0.001 | 0.001 |
| 74 | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 6 | 58 | 5290 | 13.87 | 13.90 | 1.007 | 100 | 1.000 | -0.1 | 0.211 | 0.212 |
| | WLAN5GHz | 802.11n-HT40 MCS0 | Front | 14mm | Ant 3+6 | Default Max | 54 | 5270 | 19.53 | 19.80 | 1.064 | 100 | 1.000 | 0 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11n-HT40 MCS0 | Back | 18mm | Ant 3+6 | Default Max | 54 | 5270 | 19.53 | 19.80 | 1.064 | 100 | 1.000 | -0.17 | 0.070 | 0.075 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 5mm | Ant 3+6 | 7 | 58 | 5290 | 11.01 | 11.30 | 1.069 | 100 | 1.000 | -0.19 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 7 | 58 | 5290 | 11.01 | 11.30 | 1.069 | 100 | 1.000 | 0.19 | 0.089 | 0.095 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 14mm | Ant 3+6 | 1 | 58 | 5290 | 16.21 | 16.30 | 1.021 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 18mm | Ant 3+6 | 1 | 58 | 5290 | 16.21 | 16.30 | 1.021 | 100 | 1.000 | 0.05 | 0.057 | 0.058 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 5mm | Ant 3+6 | 6 | 122 | 5610 | 13.61 | 13.90 | 1.069 | 100 | 1.000 | 0.07 | 0.001 | 0.001 |
| 75 | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 6 | 122 | 5610 | 13.61 | 13.90 | 1.069 | 100 | 1.000 | -0.15 | 0.131 | 0.140 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 6 | 106 | 5530 | 13.51 | 13.90 | 1.094 | 100 | 1.000 | -0.09 | 0.117 | 0.128 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 6 | 138 | 5690 | 13.51 | 13.90 | 1.094 | 100 | 1.000 | 0.02 | 0.123 | 0.135 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 14mm | Ant 3+6 | Default Max | 122 | 5610 | 19.80 | 19.80 | 1.000 | 100 | 1.000 | 0 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 18mm | Ant 3+6 | Default Max | 122 | 5610 | 19.80 | 19.80 | 1.000 | 100 | 1.000 | -0.07 | 0.127 | 0.127 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 5mm | Ant 3+6 | 7 | 106 | 5530 | 11.12 | 11.30 | 1.042 | 100 | 1.000 | -0.13 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 7 | 106 | 5530 | 11.12 | 11.30 | 1.042 | 100 | 1.000 | -0.04 | 0.062 | 0.065 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 7 | 122 | 5610 | 11.06 | 11.30 | 1.057 | 100 | 1.000 | 0.06 | 0.039 | 0.041 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 7 | 138 | 5690 | 11.06 | 11.30 | 1.057 | 100 | 1.000 | -0.14 | 0.045 | 0.048 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 14mm | Ant 3+6 | 1 | 106 | 5530 | 16.27 | 16.30 | 1.007 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 18mm | Ant 3+6 | 1 | 106 | 5530 | 16.27 | 16.30 | 1.007 | 100 | 1.000 | 0.15 | 0.056 | 0.056 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 5mm | Ant 3+6 | 6 | 155 | 5775 | 13.56 | 13.90 | 1.081 | 100 | 1.000 | 0.14 | 0.001 | 0.001 |
| 76 | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 6 | 155 | 5775 | 13.56 | 13.90 | 1.081 | 100 | 1.000 | 0.15 | 0.121 | 0.131 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 14mm | Ant 3+6 | Default Max | 155 | 5775 | 19.76 | 19.80 | 1.009 | 100 | 1.000 | 0 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 18mm | Ant 3+6 | Default Max | 155 | 5775 | 19.76 | 19.80 | 1.009 | 100 | 1.000 | -0.1 | 0.114 | 0.115 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 5mm | Ant 3+6 | 7 | 155 | 5775 | 11.03 | 11.30 | 1.064 | 100 | 1.000 | -0.16 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 5mm | Ant 3+6 | 7 | 155 | 5775 | 11.03 | 11.30 | 1.064 | 100 | 1.000 | 0.05 | 0.048 | 0.051 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 14mm | Ant 3+6 | 1 | 155 | 5775 | 16.01 | 16.30 | 1.069 | 100 | 1.000 | 0.01 | 0.001 | 0.001 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 18mm | Ant 3+6 | 1 | 155 | 5775 | 16.01 | 16.30 | 1.069 | 100 | 1.000 | 0.06 | 0.044 | 0.047 |

<Bluetooth SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Ch. | Freq. (MHz) | 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) |
|----------|-----------|-------|---------------|----------|---------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
| | Bluetooth | 1Mbps | Front | 5mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | 0.03 | 0.001 | 0.001 |
| 77 | Bluetooth | 1Mbps | Back | 5mm | Ant 6 | 39 | 2441 | 17.03 | 17.50 | 1.114 | 76.84 | 1.084 | -0.03 | 0.208 | 0.251 |
| | Bluetooth | 1Mbps | Back | 5mm | Ant 6 | 00 | 2402 | 16.05 | 17.50 | 1.396 | 76.84 | 1.084 | -0.01 | 0.121 | 0.183 |
| | Bluetooth | 1Mbps | Back | 5mm | Ant 6 | 78 | 2480 | 16.10 | 17.50 | 1.380 | 76.84 | 1.084 | 0.14 | 0.140 | 0.209 |



17.4 Product Specific SAR

<GSM SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|---------|-------------------|---------------|----------|-----------------|-----|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| | GSM1900 | GPRS (2 Tx Slots) | Front | 0mm | ON | 661 | 1880 | 28.23 | 29.00 | 1.194 | -0.19 | 2.760 | 3.295 |
| | GSM1900 | GPRS (2 Tx Slots) | Front | 0mm | ON | 512 | 1850.2 | 27.97 | 29.00 | 1.268 | -0.14 | 2.810 | 3.562 |
| | GSM1900 | GPRS (2 Tx Slots) | Front | 0mm | ON | 810 | 1909.8 | 28.18 | 29.00 | 1.208 | -0.04 | 2.600 | 3.140 |
| | GSM1900 | GPRS (2 Tx Slots) | Back | 0mm | ON | 661 | 1880 | 28.23 | 29.00 | 1.194 | -0.11 | 2.720 | 3.248 |
| 78 | GSM1900 | GPRS (2 Tx Slots) | Back | 0mm | ON | 512 | 1850.2 | 27.97 | 29.00 | 1.268 | 0.12 | 2.830 | 3.587 |
| | GSM1900 | GPRS (2 Tx Slots) | Back | 0mm | ON | 810 | 1909.8 | 28.18 | 29.00 | 1.208 | 0.01 | 2.540 | 3.068 |
| | GSM1900 | GPRS (2 Tx Slots) | Bottom Side | 0mm | ON | 661 | 1880 | 28.23 | 29.00 | 1.194 | 0 | 1.160 | 1.385 |
| | GSM1900 | GPRS (2 Tx Slots) | Front | 5mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | 0.03 | 1.330 | 1.963 |
| | GSM1900 | GPRS (2 Tx Slots) | Back | 8mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | -0.11 | 1.610 | 2.376 |
| | GSM1900 | GPRS (2 Tx Slots) | Back | 8mm | OFF | 512 | 1850.2 | 28.78 | 30.50 | 1.486 | 0.06 | 1.540 | 2.288 |
| | GSM1900 | GPRS (2 Tx Slots) | Back | 8mm | OFF | 810 | 1909.8 | 28.72 | 30.50 | 1.507 | 0.14 | 1.510 | 2.275 |
| | GSM1900 | GPRS (2 Tx Slots) | Bottom Side | 7mm | OFF | 661 | 1880 | 28.81 | 30.50 | 1.476 | 0.07 | 1.500 | 2.214 |
| | GSM1900 | GPRS (2 Tx Slots) | Bottom Side | 7mm | OFF | 512 | 1850.2 | 28.78 | 30.50 | 1.486 | 0.01 | 1.470 | 2.184 |
| | GSM1900 | GPRS (2 Tx Slots) | Bottom Side | 7mm | OFF | 810 | 1909.8 | 28.72 | 30.50 | 1.507 | -0.03 | 1.440 | 2.170 |

<WCDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|----------|--------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| | WCDMA II | RMC 12.2Kbps | Front | 0mm | ON | 9538 | 1907.6 | 20.66 | 21.50 | 1.213 | -0.13 | 2.770 | 3.361 |
| | WCDMA II | RMC 12.2Kbps | Front | 0mm | ON | 9262 | 1852.4 | 20.60 | 21.50 | 1.230 | -0.14 | 2.750 | 3.383 |
| | WCDMA II | RMC 12.2Kbps | Front | 0mm | ON | 9400 | 1880 | 20.51 | 21.50 | 1.256 | -0.19 | 2.600 | 3.266 |
| | WCDMA II | RMC 12.2Kbps | Back | 0mm | ON | 9538 | 1907.6 | 20.66 | 21.50 | 1.213 | 0.01 | 2.800 | 3.397 |
| 79 | WCDMA II | RMC 12.2Kbps | Back | 0mm | ON | 9262 | 1852.4 | 20.60 | 21.50 | 1.230 | 0.13 | 2.920 | 3.592 |
| | WCDMA II | RMC 12.2Kbps | Back | 0mm | ON | 9400 | 1880 | 20.51 | 21.50 | 1.256 | -0.05 | 2.610 | 3.278 |
| | WCDMA II | RMC 12.2Kbps | Bottom Side | 0mm | ON | 9538 | 1907.6 | 20.66 | 21.50 | 1.213 | -0.15 | 1.050 | 1.274 |
| | WCDMA II | RMC 12.2Kbps | Front | 5mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | 0.07 | 1.300 | 1.556 |
| | WCDMA II | RMC 12.2Kbps | Back | 8mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | 0.03 | 1.580 | 1.891 |
| | WCDMA II | RMC 12.2Kbps | Bottom Side | 7mm | OFF | 9400 | 1880 | 23.22 | 24.00 | 1.197 | -0.13 | 1.520 | 1.819 |
| | WCDMA IV | RMC 12.2Kbps | Front | 0mm | ON | 1513 | 1752.6 | 20.63 | 21.50 | 1.222 | -0.12 | 2.320 | 2.835 |
| | WCDMA IV | RMC 12.2Kbps | Front | 0mm | ON | 1312 | 1712.4 | 20.53 | 21.50 | 1.250 | -0.14 | 2.100 | 2.626 |
| | WCDMA IV | RMC 12.2Kbps | Front | 0mm | ON | 1413 | 1732.6 | 20.59 | 21.50 | 1.233 | -0.1 | 2.200 | 2.713 |
| 80 | WCDMA IV | RMC 12.2Kbps | Back | 0mm | ON | 1513 | 1752.6 | 20.63 | 21.50 | 1.222 | 0.11 | 2.650 | 3.238 |
| | WCDMA IV | RMC 12.2Kbps | Back | 0mm | ON | 1312 | 1712.4 | 20.53 | 21.50 | 1.250 | -0.08 | 2.430 | 3.038 |
| | WCDMA IV | RMC 12.2Kbps | Back | 0mm | ON | 1413 | 1732.6 | 20.59 | 21.50 | 1.233 | -0.13 | 2.580 | 3.181 |
| | WCDMA IV | RMC 12.2Kbps | Bottom Side | 0mm | ON | 1513 | 1752.6 | 20.63 | 21.50 | 1.222 | -0.12 | 1.490 | 1.820 |
| | WCDMA IV | RMC 12.2Kbps | Front | 5mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | 0.08 | 0.865 | 0.984 |
| | WCDMA IV | RMC 12.2Kbps | Back | 8mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | 0.01 | 1.060 | 1.206 |
| | WCDMA IV | RMC 12.2Kbps | Bottom Side | 7mm | OFF | 1413 | 1732.6 | 23.44 | 24.00 | 1.138 | -0.14 | 1.520 | 1.729 |



<CDMA SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|----------|---------------|---------------|----------|-----------------|------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| | CDMA BC1 | RTAP 153.6bps | Front | 0mm | ON | 1175 | 1908.75 | 22.31 | 23.00 | 1.172 | -0.08 | 2.820 | 3.306 |
| | CDMA BC1 | RTAP 153.6bps | Front | 0mm | ON | 25 | 1851.25 | 22.27 | 23.00 | 1.183 | -0.1 | 2.660 | 3.147 |
| | CDMA BC1 | RTAP 153.6bps | Front | 0mm | ON | 600 | 1880 | 22.28 | 23.00 | 1.180 | -0.1 | 2.630 | 3.104 |
| | CDMA BC1 | RTAP 153.6bps | Back | 0mm | ON | 1175 | 1908.75 | 22.31 | 23.00 | 1.172 | -0.12 | 2.950 | 3.458 |
| 81 | CDMA BC1 | RTAP 153.6bps | Back | 0mm | ON | 25 | 1851.25 | 22.27 | 23.00 | 1.183 | 0.07 | 2.950 | 3.490 |
| | CDMA BC1 | RTAP 153.6bps | Back | 0mm | ON | 600 | 1880 | 22.28 | 23.00 | 1.180 | 0.06 | 2.810 | 3.317 |
| | CDMA BC1 | RTAP 153.6bps | Bottom Side | 0mm | ON | 1175 | 1908.75 | 22.31 | 23.00 | 1.172 | 0.07 | 1.610 | 1.887 |
| | CDMA BC1 | RTAP 153.6bps | Front | 5mm | OFF | 600 | 1880 | 24.20 | 25.00 | 1.202 | 0.05 | 1.900 | 2.284 |
| | CDMA BC1 | RTAP 153.6bps | Front | 5mm | OFF | 25 | 1851.25 | 24.06 | 25.00 | 1.242 | 0.11 | 1.820 | 2.260 |
| | CDMA BC1 | RTAP 153.6bps | Front | 5mm | OFF | 1175 | 1908.75 | 23.99 | 25.00 | 1.262 | 0.17 | 1.780 | 2.246 |
| | CDMA BC1 | RTAP 153.6bps | Back | 8mm | OFF | 600 | 1880 | 24.20 | 25.00 | 1.202 | -0.17 | 0.816 | 0.981 |
| | CDMA BC1 | RTAP 153.6bps | Bottom Side | 7mm | OFF | 600 | 1880 | 24.20 | 25.00 | 1.202 | 0.1 | 2.590 | 3.114 |
| | CDMA BC1 | RTAP 153.6bps | Bottom Side | 7mm | OFF | 25 | 1851.25 | 24.06 | 25.00 | 1.242 | -0.03 | 2.510 | 3.117 |
| | CDMA BC1 | RTAP 153.6bps | Bottom Side | 7mm | OFF | 1175 | 1908.75 | 23.99 | 25.00 | 1.262 | -0.06 | 2.440 | 3.079 |

<FDD LTE SAR>

| Plot No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Reported 10g SAR (W/kg) |
|----------|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------------------------|
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Front | 0mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | -0.12 | 1.800 | 2.086 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Front | 0mm | OFF | 20850 | 2510 | 23.22 | 24.00 | 1.197 | -0.18 | 1.830 | 2.190 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Front | 0mm | OFF | 21350 | 2560 | 23.34 | 24.00 | 1.164 | -0.13 | 1.730 | 2.014 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Back | 0mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | -0.11 | 2.210 | 2.561 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Back | 0mm | OFF | 20850 | 2510 | 23.22 | 24.00 | 1.197 | 0.02 | 2.130 | 2.549 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Back | 0mm | OFF | 21350 | 2560 | 23.34 | 24.00 | 1.164 | -0.07 | 1.910 | 2.223 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Bottom Side | 0mm | OFF | 21100 | 2535 | 23.36 | 24.00 | 1.159 | -0.08 | 2.380 | 2.758 |
| 82 | LTE Band 7 | 20M | QPSK | 1 | 99 | Bottom Side | 0mm | OFF | 20850 | 2510 | 23.22 | 24.00 | 1.197 | -0.04 | 2.520 | 3.016 |
| | LTE Band 7 | 20M | QPSK | 1 | 99 | Bottom Side | 0mm | OFF | 21350 | 2560 | 23.34 | 24.00 | 1.164 | -0.19 | 2.060 | 2.398 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 0mm | ON | 26140 | 1860 | 21.69 | 22.50 | 1.205 | -0.06 | 2.740 | 3.302 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 0mm | ON | 26340 | 1880 | 21.54 | 22.50 | 1.247 | -0.05 | 2.600 | 3.243 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 0mm | ON | 26590 | 1905 | 21.76 | 22.50 | 1.186 | -0.06 | 2.680 | 3.178 |
| 83 | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 26140 | 1860 | 21.69 | 22.50 | 1.205 | 0.16 | 2.980 | 3.591 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 26340 | 1880 | 21.54 | 22.50 | 1.247 | 0.02 | 2.620 | 3.268 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 26590 | 1905 | 21.76 | 22.50 | 1.186 | -0.06 | 2.740 | 3.249 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 0mm | ON | 26590 | 1905 | 21.76 | 22.50 | 1.186 | 0.18 | 1.440 | 1.708 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Front | 5mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | -0.15 | 1.230 | 1.496 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 8mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | -0.06 | 1.100 | 1.338 |
| | LTE Band 25 | 20M | QPSK | 1 | 0 | Bottom Side | 7mm | OFF | 26140 | 1860 | 23.15 | 24.00 | 1.216 | -0.16 | 1.440 | 1.751 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Front | 0mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | -0.06 | 1.420 | 1.902 |
| 84 | LTE Band 30 | 10M | QPSK | 1 | 0 | Back | 0mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | -0.13 | 1.640 | 2.197 |
| | LTE Band 30 | 10M | QPSK | 1 | 0 | Bottom Side | 0mm | OFF | 27710 | 2310 | 22.73 | 24.00 | 1.340 | -0.15 | 0.968 | 1.297 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 0mm | ON | 132072 | 1720 | 21.55 | 22.00 | 1.109 | 0.17 | 2.080 | 2.307 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 0mm | ON | 132322 | 1745 | 21.49 | 22.00 | 1.125 | -0.09 | 2.490 | 2.800 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 0mm | ON | 132572 | 1770 | 21.37 | 22.00 | 1.156 | 0.19 | 2.560 | 2.960 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 132072 | 1720 | 21.55 | 22.00 | 1.109 | 0.19 | 2.280 | 2.529 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 132322 | 1745 | 21.49 | 22.00 | 1.125 | 0.12 | 2.270 | 2.553 |
| 85 | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 132572 | 1770 | 21.37 | 22.00 | 1.156 | -0.15 | 2.690 | 3.110 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 0mm | ON | 132072 | 1720 | 21.55 | 22.00 | 1.109 | -0.18 | 1.780 | 1.974 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Front | 5mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | -0.18 | 0.932 | 1.126 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 8mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | -0.19 | 0.766 | 0.925 |
| | LTE Band 66 | 20M | QPSK | 1 | 0 | Bottom Side | 7mm | OFF | 132322 | 1745 | 23.18 | 24.00 | 1.208 | -0.15 | 1.060 | 1.280 |



<WLAN SAR>

| Plot No. | Band | Mode | Test Position | Gap (mm) | Antenna | Output Power Status | Ch. | Freq. (MHz) | 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) |
|----------|------------|---------------------|---------------|----------|---------|---------------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|-------------------------|-------------------------|
| 87 | WLAN2.4GHz | 802.11b 1Mbps | Back | 0mm | Ant 4+6 | Default Max | 11 | 2462 | 20.12 | 20.80 | 1.168 | 100 | 1.000 | -0.17 | 0.989 | 1.155 |
| 88 | WLAN5GHz | 802.11n-HT40 MCS0 | Back | 0mm | Ant 3+6 | Default Max | 46 | 5230 | 19.21 | 19.80 | 1.144 | 100 | 1.000 | 0.04 | 0.748 | 0.856 |
| | WLAN5GHz | 802.11n-HT40 MCS0 | Front | 0mm | Ant 3+6 | Default Max | 54 | 5270 | 19.53 | 19.80 | 1.064 | 100 | 1.000 | 0.08 | 0.432 | 0.460 |
| 89 | WLAN5GHz | 802.11n-HT40 MCS0 | Back | 0mm | Ant 3+6 | Default Max | 54 | 5270 | 19.53 | 19.80 | 1.064 | 100 | 1.000 | 0.06 | 0.862 | 0.918 |
| | WLAN5GHz | 802.11n-HT40 MCS0 | Back | 0mm | Ant 3+6 | Default Max | 62 | 5310 | 19.38 | 19.80 | 1.101 | 100 | 1.000 | -0.09 | 0.824 | 0.907 |
| | WLAN5GHz | 802.11n-HT40 MCS0 | Left Side | 0mm | Ant 3+6 | Default Max | 54 | 5270 | 19.53 | 19.80 | 1.064 | 100 | 1.000 | -0.17 | 0.443 | 0.472 |
| | WLAN5GHz | 802.11n-HT40 MCS0 | Right Side | 0mm | Ant 3+6 | Default Max | 54 | 5270 | 19.53 | 19.80 | 1.064 | 100 | 1.000 | -0.08 | 0.066 | 0.070 |
| | WLAN5GHz | 802.11n-HT40 MCS0 | Top Side | 0mm | Ant 3+6 | Default Max | 54 | 5270 | 19.53 | 19.80 | 1.064 | 100 | 1.000 | 0.12 | 0.420 | 0.447 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 0mm | Ant 3+6 | 1 | 58 | 5290 | 16.21 | 16.30 | 1.021 | 100 | 1.000 | 0.17 | 0.180 | 0.184 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 0mm | Ant 3+6 | 1 | 58 | 5290 | 16.21 | 16.30 | 1.021 | 100 | 1.000 | 0.07 | 0.375 | 0.383 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side | 0mm | Ant 3+6 | 1 | 58 | 5290 | 16.21 | 16.30 | 1.021 | 100 | 1.000 | -0.14 | 0.196 | 0.200 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side | 0mm | Ant 3+6 | 1 | 58 | 5290 | 16.21 | 16.30 | 1.021 | 100 | 1.000 | -0.16 | 0.031 | 0.032 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side | 0mm | Ant 3+6 | 1 | 58 | 5290 | 16.21 | 16.30 | 1.021 | 100 | 1.000 | 0.16 | 0.186 | 0.190 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 0mm | Ant 3+6 | Default Max | 122 | 5610 | 19.80 | 19.80 | 1.000 | 100 | 1.000 | 0.18 | 0.447 | 0.447 |
| 90 | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 0mm | Ant 3+6 | Default Max | 122 | 5610 | 19.80 | 19.80 | 1.000 | 100 | 1.000 | 0.04 | 0.866 | 0.866 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 0mm | Ant 3+6 | Default Max | 106 | 5530 | 18.91 | 19.80 | 1.227 | 100 | 1.000 | -0.11 | 0.536 | 0.658 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 0mm | Ant 3+6 | Default Max | 138 | 5690 | 19.00 | 19.80 | 1.202 | 100 | 1.000 | -0.11 | 0.529 | 0.636 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side | 0mm | Ant 3+6 | Default Max | 122 | 5610 | 19.80 | 19.80 | 1.000 | 100 | 1.000 | -0.13 | 0.430 | 0.430 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side | 0mm | Ant 3+6 | Default Max | 122 | 5610 | 19.80 | 19.80 | 1.000 | 100 | 1.000 | -0.02 | 0.079 | 0.079 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side | 0mm | Ant 3+6 | Default Max | 122 | 5610 | 19.80 | 19.80 | 1.000 | 100 | 1.000 | -0.05 | 0.402 | 0.402 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Front | 0mm | Ant 3+6 | 1 | 106 | 5530 | 16.27 | 16.30 | 1.007 | 100 | 1.000 | 0.15 | 0.172 | 0.173 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 0mm | Ant 3+6 | 1 | 106 | 5530 | 16.27 | 16.30 | 1.007 | 100 | 1.000 | 0.01 | 0.325 | 0.327 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 0mm | Ant 3+6 | 1 | 122 | 5610 | 16.26 | 16.30 | 1.009 | 100 | 1.000 | 0.15 | 0.303 | 0.306 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Back | 0mm | Ant 3+6 | 1 | 138 | 5690 | 16.22 | 16.30 | 1.019 | 100 | 1.000 | 0.11 | 0.192 | 0.196 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Left Side | 0mm | Ant 3+6 | 1 | 106 | 5530 | 16.27 | 16.30 | 1.007 | 100 | 1.000 | -0.18 | 0.167 | 0.168 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Right Side | 0mm | Ant 3+6 | 1 | 106 | 5530 | 16.27 | 16.30 | 1.007 | 100 | 1.000 | 0.19 | 0.039 | 0.039 |
| | WLAN5GHz | 802.11ac-VHT80 MCS0 | Top Side | 0mm | Ant 3+6 | 1 | 106 | 5530 | 16.27 | 16.30 | 1.007 | 100 | 1.000 | 0.08 | 0.193 | 0.194 |



17.5 Repeated SAR Measurement

| No. | Band | Mode | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Ratio | Reported 1g SAR (W/kg) |
|-----|-------------|---------------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|------------------------|-------|------------------------|
| 1st | WCDMA II | RMC 12.2Kbps | Bottom Side | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | -0.11 | 1.300 | - | 1.312 |
| 2nd | WCDMA II | RMC 12.2Kbps | Bottom Side | 5mm | ON | 9538 | 1907.6 | 16.96 | 17.00 | 1.009 | 0.14 | 1.250 | 1.04 | 1.262 |
| 1st | LTE Band 7 | 20M_QPSK_1_0 | Bottom Side | 5mm | ON | 21350 | 2560 | 20.80 | 21.50 | 1.175 | 0.12 | 0.981 | - | 1.153 |
| 2nd | LTE Band 7 | 20M_QPSK_1_0 | Bottom Side | 5mm | ON | 21350 | 2560 | 20.80 | 21.50 | 1.175 | 0.07 | 0.968 | 1.01 | 1.137 |
| 1st | LTE Band 30 | 10M_QPSK_25_0 | Bottom Side | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | -0.13 | 0.848 | - | 1.160 |
| 2nd | LTE Band 30 | 10M_QPSK_25_0 | Bottom Side | 5mm | ON | 27710 | 2310 | 16.14 | 17.50 | 1.368 | -0.19 | 0.844 | 1.01 | 1.154 |
| 1st | LTE Band 66 | 20M_QPSK_1_0 | Bottom Side | 5mm | ON | 132572 | 1770 | 16.40 | 17.00 | 1.148 | -0.01 | 1.090 | - | 1.251 |
| 2nd | LTE Band 66 | 20M_QPSK_1_0 | Bottom Side | 5mm | ON | 132572 | 1770 | 16.40 | 17.00 | 1.148 | 0.03 | 1.020 | 1.07 | 1.171 |

| No. | Band | BW (MHz) | Modulation | RB Size | RB offset | Test Position | Gap (mm) | Power Reduction | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Power Drift (dB) | Measured 10g SAR (W/kg) | Ratio | Reported 10g SAR (W/kg) |
|-----|-------------|----------|------------|---------|-----------|---------------|----------|-----------------|--------|-------------|---------------------|---------------------|------------------------|------------------|-------------------------|-------|-------------------------|
| 1st | LTE Band 7 | 20M | QPSK | 1 | 99 | Bottom Side | 0mm | OFF | 20850 | 2510 | 23.22 | 24.00 | 1.197 | -0.04 | 2.520 | - | 3.016 |
| 2nd | LTE Band 7 | 20M | QPSK | 1 | 99 | Bottom Side | 0mm | OFF | 20850 | 2510 | 23.22 | 24.00 | 1.197 | -0.04 | 2.450 | 1.03 | 2.932 |
| 1st | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 26140 | 1860 | 21.69 | 22.50 | 1.205 | 0.16 | 2.980 | - | 3.591 |
| 2nd | LTE Band 25 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 26140 | 1860 | 21.69 | 22.50 | 1.205 | 0.16 | 2.870 | 1.04 | 3.458 |
| 1st | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 132572 | 1770 | 21.37 | 22.00 | 1.156 | -0.15 | 2.690 | - | 3.110 |
| 2nd | LTE Band 66 | 20M | QPSK | 1 | 0 | Back | 0mm | ON | 132572 | 1770 | 21.37 | 22.00 | 1.156 | -0.15 | 2.600 | 1.03 | 3.006 |

General Note:

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/kg$.
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45W/kg$, 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.



18. Simultaneous Transmission Analysis

| NO. | Simultaneous Transmission Configurations | Exposure Positions | | | |
|-----|--|--------------------|---------|-----------|-----------|
| | | Head | Hotspot | Body-worn | Extremity |
| 1. | WWAN + 2.4GHz WLAN Ant 4+6 | Yes | Yes | Yes | Yes |
| 2. | WWAN + 2.4GHz WLAN Ant 4 + BT Ant 6 | Yes | Yes | Yes | Yes |
| 3. | WWAN + 5GHz WLAN Ant 3+6 + BT Ant 6 | Yes | Yes | Yes | Yes |
| 4. | WWAN Voice + 2.4GHz WLAN Ant 4+6 + 5GHz WLAN Ant 3+6 | Yes | Yes | Yes | Yes |
| 5. | 5GHz WLAN Ant 3+6 + BT Ant 6 | Yes | No | Yes | Yes |
| 6. | WWAN + 2.4GHz WLAN Ant 4+6 + 5GHz WLAN Ant 3+6+ BT Ant 6 | Yes | Yes | Yes | Yes |
| 7. | WWAN + WLAN 2.4GHz + Bluetooth + FR1 | Yes | Yes | Yes | Yes |
| 8. | WWAN + WLAN5GHz + Bluetooth + FR1 | Yes | Yes | Yes | Yes |

General Note:

1. This device WLAN 2.4GHz/5.2GHz/5.8GHz supports Hotspot operation and Bluetooth support tethering applications.
2. The Scaled SAR summation is calculated based on the same configuration and test position.
3. Due to the device implanted DPS (Dynamic Power Share) function and the DPS will manage to ensure the averaged power level not exceeding total power 24dBm in each EN-DC combination, so for each combination in each NR band or LTE Anchors Bands if the SAR test level at 24dBm which the Sim-Tx analysis only required separate LTE or NR transmit simultaneous with WiFi / Bluetooth, therefore, the LTE and NR was separated evaluation for head.
4. If the EN-DC combination SAR was not test at 24dBm level which the DPS was in-active, so the Sim-Tx analysis need to compliance with single uplink 1g SAR values for each LTE Anchors Bands and 5G NR are both less than 0.8W/kg and the algebraic summation of the 1g SAR value are less than 1.45W/kg, additional measurements are not required according to TCBC workshop guidance, in this report which the hotspot and body-worn sim-Tx analysis single uplink 1g SAR values for each LTE Anchors Bands and 5G NR are both less than 0.8W/kg and the algebraic summation of the 1g SAR value are less than 1.45W/kg.
5. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\min. \text{ separation distance, mm})$, 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.
 - iii) If $SPLSR \leq 0.04$, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.



18.1 Head Exposure Conditions

<Standalone>

| Exposure Position | 2 | 3 | 4 | 6 | 2+4 Summed 1g SAR (W/kg) | 3+4+6 Summed 1g SAR (W/kg) |
|-------------------|--------------------------------------|------------------------------------|------------------------------------|----------------------------------|--------------------------|----------------------------|
| | 2.4GHz WLAN Ant 4+6 1g SAR (W/kg) | 2.4GHz WLAN Ant 4 1g SAR (W/kg) | 5GHz WLAN Ant 3+6 1g SAR (W/kg) | Bluetooth Ant 6 1g SAR (W/kg) | | |
| Right Cheek | 0.046 | 0.042 | 0.739 | 0.001 | 0.785 | 0.782 |
| Right Tilted | 0.019 | 0.034 | 0.840 | 0.001 | 0.859 | 0.875 |
| Left Cheek | 0.032 | 0.036 | 0.399 | 0.001 | 0.431 | 0.436 |
| Left Tilted | 0.022 | 0.028 | 0.496 | 0.001 | 0.518 | 0.525 |

<Sim-Tx>

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 1+2 Summed 1g SAR (W/kg) | 1+4 Summed 1g SAR (W/kg) | 1+2+4 Summed 1g SAR (W/kg) | 1+3+6 Summed 1g SAR (W/kg) | 1+3+4+6 Summed 1g SAR (W/kg) | |
|-----------|-------------------|--------------------|-----------------------------------|---------------------------------|---------------------------------|-------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|------------------------------|-------|
| | | WWAN 1g SAR (W/kg) | 2.4GHz WLAN Ant 4+6 1g SAR (W/kg) | 2.4GHz WLAN Ant 4 1g SAR (W/kg) | 5GHz WLAN Ant 3+6 1g SAR (W/kg) | Bluetooth Ant 6 1g SAR (W/kg) | | | | | | |
| GSM | GSM850 | Right Cheek | 0.365 | 0.046 | 0.042 | 0.428 | 0.001 | 0.411 | 0.793 | 0.839 | 0.408 | 0.836 |
| | | Right Tilted | 0.140 | 0.019 | 0.034 | 0.486 | 0.001 | 0.159 | 0.626 | 0.645 | 0.175 | 0.661 |
| | | Left Cheek | 0.209 | 0.032 | 0.036 | 0.244 | 0.001 | 0.241 | 0.453 | 0.485 | 0.246 | 0.490 |
| | | Left Tilted | 0.129 | 0.022 | 0.028 | 0.304 | 0.001 | 0.151 | 0.433 | 0.455 | 0.158 | 0.462 |
| | GSM1900 | Right Cheek | 0.120 | 0.046 | 0.042 | 0.428 | 0.001 | 0.166 | 0.548 | 0.594 | 0.163 | 0.591 |
| | | Right Tilted | 0.093 | 0.019 | 0.034 | 0.486 | 0.001 | 0.112 | 0.579 | 0.598 | 0.128 | 0.614 |
| | | Left Cheek | 0.196 | 0.032 | 0.036 | 0.244 | 0.001 | 0.228 | 0.440 | 0.472 | 0.233 | 0.477 |
| | | Left Tilted | 0.118 | 0.022 | 0.028 | 0.304 | 0.001 | 0.140 | 0.422 | 0.444 | 0.147 | 0.451 |
| WCDMA | WCDMA II | Right Cheek | 0.115 | 0.046 | 0.042 | 0.428 | 0.001 | 0.161 | 0.543 | 0.589 | 0.158 | 0.586 |
| | | Right Tilted | 0.063 | 0.019 | 0.034 | 0.486 | 0.001 | 0.082 | 0.549 | 0.568 | 0.098 | 0.584 |
| | | Left Cheek | 0.159 | 0.032 | 0.036 | 0.244 | 0.001 | 0.191 | 0.403 | 0.435 | 0.196 | 0.440 |
| | | Left Tilted | 0.101 | 0.022 | 0.028 | 0.304 | 0.001 | 0.123 | 0.405 | 0.427 | 0.130 | 0.434 |
| | WCDMA IV | Right Cheek | 0.099 | 0.046 | 0.042 | 0.428 | 0.001 | 0.145 | 0.527 | 0.573 | 0.142 | 0.570 |
| | | Right Tilted | 0.055 | 0.019 | 0.034 | 0.486 | 0.001 | 0.074 | 0.541 | 0.560 | 0.090 | 0.576 |
| | | Left Cheek | 0.138 | 0.032 | 0.036 | 0.244 | 0.001 | 0.170 | 0.382 | 0.414 | 0.175 | 0.419 |
| | | Left Tilted | 0.086 | 0.022 | 0.028 | 0.304 | 0.001 | 0.108 | 0.390 | 0.412 | 0.115 | 0.419 |
| | WCDMA V | Right Cheek | 0.189 | 0.046 | 0.042 | 0.428 | 0.001 | 0.235 | 0.617 | 0.663 | 0.232 | 0.660 |
| | | Right Tilted | 0.074 | 0.019 | 0.034 | 0.486 | 0.001 | 0.093 | 0.560 | 0.579 | 0.109 | 0.595 |
| | | Left Cheek | 0.138 | 0.032 | 0.036 | 0.244 | 0.001 | 0.170 | 0.382 | 0.414 | 0.175 | 0.419 |
| | | Left Tilted | 0.079 | 0.022 | 0.028 | 0.304 | 0.001 | 0.101 | 0.383 | 0.405 | 0.108 | 0.412 |
| CDMA | CDMA BC0 | Right Cheek | 0.526 | 0.046 | 0.042 | 0.428 | 0.001 | 0.572 | 0.954 | 1.000 | 0.569 | 0.997 |
| | | Right Tilted | 0.116 | 0.019 | 0.034 | 0.486 | 0.001 | 0.135 | 0.602 | 0.621 | 0.151 | 0.637 |
| | | Left Cheek | 0.246 | 0.032 | 0.036 | 0.244 | 0.001 | 0.278 | 0.490 | 0.522 | 0.283 | 0.527 |
| | | Left Tilted | 0.158 | 0.022 | 0.028 | 0.304 | 0.001 | 0.180 | 0.462 | 0.484 | 0.187 | 0.491 |
| | CDMA BC1 | Right Cheek | 0.159 | 0.046 | 0.042 | 0.428 | 0.001 | 0.205 | 0.587 | 0.633 | 0.202 | 0.630 |
| | | Right Tilted | 0.100 | 0.019 | 0.034 | 0.486 | 0.001 | 0.119 | 0.586 | 0.605 | 0.135 | 0.621 |
| | | Left Cheek | 0.247 | 0.032 | 0.036 | 0.244 | 0.001 | 0.279 | 0.491 | 0.523 | 0.284 | 0.528 |
| | | Left Tilted | 0.115 | 0.022 | 0.028 | 0.304 | 0.001 | 0.137 | 0.419 | 0.441 | 0.144 | 0.448 |
| LTE | LTE Band 7 | Right Cheek | 0.036 | 0.046 | 0.042 | 0.428 | 0.001 | 0.082 | 0.464 | 0.510 | 0.079 | 0.507 |
| | | Right Tilted | 0.038 | 0.019 | 0.034 | 0.486 | 0.001 | 0.057 | 0.524 | 0.543 | 0.073 | 0.559 |
| | | Left Cheek | 0.039 | 0.032 | 0.036 | 0.244 | 0.001 | 0.071 | 0.283 | 0.315 | 0.076 | 0.320 |
| | | Left Tilted | 0.064 | 0.022 | 0.028 | 0.304 | 0.001 | 0.086 | 0.368 | 0.390 | 0.093 | 0.397 |
| | LTE Band 12 | Right Cheek | 0.194 | 0.046 | 0.042 | 0.428 | 0.001 | 0.240 | 0.622 | 0.668 | 0.237 | 0.665 |
| | | Right Tilted | 0.072 | 0.019 | 0.034 | 0.486 | 0.001 | 0.091 | 0.558 | 0.577 | 0.107 | 0.593 |
| | | Left Cheek | 0.180 | 0.032 | 0.036 | 0.244 | 0.001 | 0.212 | 0.424 | 0.456 | 0.217 | 0.461 |
| | | Left Tilted | 0.088 | 0.022 | 0.028 | 0.304 | 0.001 | 0.110 | 0.392 | 0.414 | 0.117 | 0.421 |
| | LTE Band 13 | Right Cheek | 0.290 | 0.046 | 0.042 | 0.428 | 0.001 | 0.336 | 0.718 | 0.764 | 0.333 | 0.761 |
| | | Right Tilted | 0.159 | 0.019 | 0.034 | 0.486 | 0.001 | 0.178 | 0.645 | 0.664 | 0.194 | 0.680 |
| | | Left Cheek | 0.309 | 0.032 | 0.036 | 0.244 | 0.001 | 0.341 | 0.553 | 0.585 | 0.346 | 0.590 |



| | | | | | | | | | | | | |
|-------------|--|--------------|-------|-------|-------|-------|-------|--------------|--------------|--------------|--------------|--------------|
| | | Left Tilted | 0.170 | 0.022 | 0.028 | 0.304 | 0.001 | 0.192 | 0.474 | 0.496 | 0.199 | 0.503 |
| LTE Band 25 | | Right Cheek | 0.130 | 0.046 | 0.042 | 0.428 | 0.001 | 0.176 | 0.558 | 0.604 | 0.173 | 0.601 |
| | | Right Tilted | 0.063 | 0.019 | 0.034 | 0.486 | 0.001 | 0.082 | 0.549 | 0.568 | 0.098 | 0.584 |
| | | Left Cheek | 0.193 | 0.032 | 0.036 | 0.244 | 0.001 | 0.225 | 0.437 | 0.469 | 0.230 | 0.474 |
| | | Left Tilted | 0.084 | 0.022 | 0.028 | 0.304 | 0.001 | 0.106 | 0.388 | 0.410 | 0.113 | 0.417 |
| LTE Band 26 | | Right Cheek | 0.220 | 0.046 | 0.042 | 0.428 | 0.001 | 0.266 | 0.648 | 0.694 | 0.263 | 0.691 |
| | | Right Tilted | 0.105 | 0.019 | 0.034 | 0.486 | 0.001 | 0.124 | 0.591 | 0.610 | 0.140 | 0.626 |
| | | Left Cheek | 0.141 | 0.032 | 0.036 | 0.244 | 0.001 | 0.173 | 0.385 | 0.417 | 0.178 | 0.422 |
| | | Left Tilted | 0.120 | 0.022 | 0.028 | 0.304 | 0.001 | 0.142 | 0.424 | 0.446 | 0.149 | 0.453 |
| LTE Band 30 | | Right Cheek | 0.028 | 0.046 | 0.042 | 0.428 | 0.001 | 0.074 | 0.456 | 0.502 | 0.071 | 0.499 |
| | | Right Tilted | 0.017 | 0.019 | 0.034 | 0.486 | 0.001 | 0.036 | 0.503 | 0.522 | 0.052 | 0.538 |
| | | Left Cheek | 0.039 | 0.032 | 0.036 | 0.244 | 0.001 | 0.071 | 0.283 | 0.315 | 0.076 | 0.320 |
| | | Left Tilted | 0.019 | 0.022 | 0.028 | 0.304 | 0.001 | 0.041 | 0.323 | 0.345 | 0.048 | 0.352 |
| LTE Band 41 | | Right Cheek | 0.012 | 0.046 | 0.042 | 0.428 | 0.001 | 0.058 | 0.440 | 0.486 | 0.055 | 0.483 |
| | | Right Tilted | 0.006 | 0.019 | 0.034 | 0.486 | 0.001 | 0.025 | 0.492 | 0.511 | 0.041 | 0.527 |
| | | Left Cheek | 0.010 | 0.032 | 0.036 | 0.244 | 0.001 | 0.042 | 0.254 | 0.286 | 0.047 | 0.291 |
| | | Left Tilted | 0.010 | 0.022 | 0.028 | 0.304 | 0.001 | 0.032 | 0.314 | 0.336 | 0.039 | 0.343 |
| LTE Band 66 | | Right Cheek | 0.114 | 0.046 | 0.042 | 0.428 | 0.001 | 0.160 | 0.542 | 0.588 | 0.157 | 0.585 |
| | | Right Tilted | 0.065 | 0.019 | 0.034 | 0.486 | 0.001 | 0.084 | 0.551 | 0.570 | 0.100 | 0.586 |
| | | Left Cheek | 0.161 | 0.032 | 0.036 | 0.244 | 0.001 | 0.193 | 0.405 | 0.437 | 0.198 | 0.442 |
| | | Left Tilted | 0.079 | 0.022 | 0.028 | 0.304 | 0.001 | 0.101 | 0.383 | 0.405 | 0.108 | 0.412 |
| LTE Band 71 | | Right Cheek | 0.137 | 0.046 | 0.042 | 0.428 | 0.001 | 0.183 | 0.565 | 0.611 | 0.180 | 0.608 |
| | | Right Tilted | 0.090 | 0.019 | 0.034 | 0.486 | 0.001 | 0.109 | 0.576 | 0.595 | 0.125 | 0.611 |
| | | Left Cheek | 0.120 | 0.032 | 0.036 | 0.244 | 0.001 | 0.152 | 0.364 | 0.396 | 0.157 | 0.401 |
| | | Left Tilted | 0.058 | 0.022 | 0.028 | 0.304 | 0.001 | 0.080 | 0.362 | 0.384 | 0.087 | 0.391 |



<5G NR EN-DC_DPS Active>

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 1+2 Summed 1g SAR (W/kg) | 1+3+6 Summed 1g SAR (W/kg) | 1+4+6 Summed 1g SAR (W/kg) |
|-----------|-------------------|------------------|---------------------------|-------------------------|----------------------|--------------------|-----------------------------------|-------------------------------------|-------------------------------------|
| | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | |
| FR1 n5 | Right Cheek | 0.119 | 0.046 | 0.042 | 0.428 | 0.001 | 0.165 | 0.162 | 0.548 |
| | Right Tilted | 0.114 | 0.019 | 0.034 | 0.486 | 0.001 | 0.133 | 0.149 | 0.601 |
| | Left Cheek | 0.094 | 0.032 | 0.036 | 0.244 | 0.001 | 0.126 | 0.131 | 0.339 |
| | Left Tilted | 0.080 | 0.022 | 0.028 | 0.304 | 0.001 | 0.102 | 0.109 | 0.385 |
| FR1 n66 | Right Cheek | 0.348 | 0.046 | 0.042 | 0.428 | 0.001 | 0.394 | 0.391 | 0.777 |
| | Right Tilted | 0.373 | 0.019 | 0.034 | 0.486 | 0.001 | 0.392 | 0.408 | 0.860 |
| | Left Cheek | 0.273 | 0.032 | 0.036 | 0.244 | 0.001 | 0.305 | 0.310 | 0.518 |
| | Left Tilted | 0.330 | 0.022 | 0.028 | 0.304 | 0.001 | 0.352 | 0.359 | 0.635 |
| FR1 n71 | Right Cheek | 0.109 | 0.046 | 0.042 | 0.428 | 0.001 | 0.155 | 0.152 | 0.538 |
| | Right Tilted | 0.094 | 0.019 | 0.034 | 0.486 | 0.001 | 0.113 | 0.129 | 0.581 |
| | Left Cheek | 0.099 | 0.032 | 0.036 | 0.244 | 0.001 | 0.131 | 0.136 | 0.344 |
| | Left Tilted | 0.090 | 0.022 | 0.028 | 0.304 | 0.001 | 0.112 | 0.119 | 0.395 |



18.2 Hotspot Exposure Conditions

<Sim-Tx>

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 1+2 Summed 1g SAR (W/kg) | 1+4 Summed 1g SAR (W/kg) | 1+2+4 Summed 1g SAR (W/kg) | 1+3+6 Summed 1g SAR (W/kg) | 1+3+4+6 Summed 1g SAR (W/kg) | |
|-----------|-------------------|---------------|---------------------|-------------------|-------------------|-----------------|--------------------------|--------------------------|----------------------------|----------------------------|------------------------------|-------|
| | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | | | | | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | |
| GSM | GSM850 | Front | 0.608 | 0.001 | 0.001 | 0.001 | 0.001 | 0.609 | 0.609 | 0.610 | 0.610 | 0.611 |
| | | Back | 1.136 | 0.306 | 0.084 | 0.111 | 0.251 | 1.442 | 1.247 | 1.553 | 1.471 | 1.582 |
| | | Left side | 0.206 | 0.007 | 0.013 | 0.014 | | 0.213 | 0.220 | 0.227 | 0.219 | 0.233 |
| | | Right side | 0.265 | 0.015 | 0.001 | 0.007 | 0.052 | 0.280 | 0.272 | 0.287 | 0.318 | 0.325 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 0.251 | | | | | 0.251 | 0.251 | 0.251 | 0.251 | 0.251 |
| | GSM1900 | Front | 0.555 | 0.001 | 0.001 | 0.001 | 0.001 | 0.556 | 0.556 | 0.557 | 0.557 | 0.558 |
| | | Back | 0.591 | 0.306 | 0.084 | 0.111 | 0.251 | 0.897 | 0.702 | 1.008 | 0.926 | 1.037 |
| | | Left side | 0.052 | 0.007 | 0.013 | 0.014 | | 0.059 | 0.066 | 0.073 | 0.065 | 0.079 |
| | | Right side | 0.664 | 0.015 | 0.001 | 0.007 | 0.052 | 0.679 | 0.671 | 0.686 | 0.717 | 0.724 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 0.958 | | | | | 0.958 | 0.958 | 0.958 | 0.958 | 0.958 |
| WCDMA | WCDMA II | Front | 0.693 | 0.001 | 0.001 | 0.001 | 0.001 | 0.694 | 0.694 | 0.695 | 0.695 | 0.696 |
| | | Back | 0.845 | 0.306 | 0.084 | 0.111 | 0.251 | 1.151 | 0.956 | 1.262 | 1.180 | 1.291 |
| | | Left side | 0.054 | 0.007 | 0.013 | 0.014 | | 0.061 | 0.068 | 0.075 | 0.067 | 0.081 |
| | | Right side | 0.107 | 0.015 | 0.001 | 0.007 | 0.052 | 0.122 | 0.114 | 0.129 | 0.160 | 0.167 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 1.312 | | | | | 1.312 | 1.312 | 1.312 | 1.312 | 1.312 |
| | WCDMA IV | Front | 0.574 | 0.001 | 0.001 | 0.001 | 0.001 | 0.575 | 0.575 | 0.576 | 0.576 | 0.577 |
| | | Back | 0.955 | 0.306 | 0.084 | 0.111 | 0.251 | 1.261 | 1.066 | 1.372 | 1.290 | 1.401 |
| | | Left side | 0.196 | 0.007 | 0.013 | 0.014 | | 0.203 | 0.210 | 0.217 | 0.209 | 0.223 |
| | | Right side | 0.064 | 0.015 | 0.001 | 0.007 | 0.052 | 0.079 | 0.071 | 0.086 | 0.117 | 0.124 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 1.094 | | | | | 1.094 | 1.094 | 1.094 | 1.094 | 1.094 |
| | WCDMA V | Front | 0.518 | 0.001 | 0.001 | 0.001 | 0.001 | 0.519 | 0.519 | 0.520 | 0.520 | 0.521 |
| | | Back | 0.614 | 0.306 | 0.084 | 0.111 | 0.251 | 0.920 | 0.725 | 1.031 | 0.949 | 1.060 |
| | | Left side | 0.199 | 0.007 | 0.013 | 0.014 | | 0.206 | 0.213 | 0.220 | 0.212 | 0.226 |
| | | Right side | 0.224 | 0.015 | 0.001 | 0.007 | 0.052 | 0.239 | 0.231 | 0.246 | 0.277 | 0.284 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 0.460 | | | | | 0.460 | 0.460 | 0.460 | 0.460 | 0.460 |
| CDMA | CDMA BC0 | Front | 0.908 | 0.001 | 0.001 | 0.001 | 0.001 | 0.909 | 0.909 | 0.910 | 0.910 | 0.911 |
| | | Back | 0.930 | 0.306 | 0.084 | 0.111 | 0.251 | 1.236 | 1.041 | 1.347 | 1.265 | 1.376 |
| | | Left side | 0.258 | 0.007 | 0.013 | 0.014 | | 0.265 | 0.272 | 0.279 | 0.271 | 0.285 |
| | | Right side | 0.332 | 0.015 | 0.001 | 0.007 | 0.052 | 0.347 | 0.339 | 0.354 | 0.385 | 0.392 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 0.313 | | | | | 0.313 | 0.313 | 0.313 | 0.313 | 0.313 |
| | CDMA BC1 | Front | 0.657 | 0.001 | 0.001 | 0.001 | 0.001 | 0.658 | 0.658 | 0.659 | 0.659 | 0.660 |
| | | Back | 0.923 | 0.306 | 0.084 | 0.111 | 0.251 | 1.229 | 1.034 | 1.340 | 1.258 | 1.369 |
| | | Left side | 0.057 | 0.007 | 0.013 | 0.014 | | 0.064 | 0.071 | 0.078 | 0.070 | 0.084 |
| | | Right side | 0.060 | 0.015 | 0.001 | 0.007 | 0.052 | 0.075 | 0.067 | 0.082 | 0.113 | 0.120 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 1.156 | | | | | 1.156 | 1.156 | 1.156 | 1.156 | 1.156 |



| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 1+2 Summed 1g SAR (W/kg) | 1+4 Summed 1g SAR (W/kg) | 1+2+4 Summed 1g SAR (W/kg) | 1+3+6 Summed 1g SAR (W/kg) | 1+3+4+6 Summed 1g SAR (W/kg) | |
|-------------|-------------------|---------------|---------------------|-------------------|-------------------|-----------------|--------------------------|--------------------------|----------------------------|----------------------------|------------------------------|-------|
| | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | | | | | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | |
| LTE | LTE Band 7 | Front | 0.357 | 0.001 | 0.001 | 0.001 | 0.001 | 0.358 | 0.358 | 0.359 | 0.359 | 0.360 |
| | | Back | 0.468 | 0.306 | 0.084 | 0.111 | 0.251 | 0.774 | 0.579 | 0.885 | 0.803 | 0.914 |
| | | Left side | 0.043 | 0.007 | 0.013 | 0.014 | | 0.050 | 0.057 | 0.064 | 0.056 | 0.070 |
| | | Right side | 0.014 | 0.015 | 0.001 | 0.007 | 0.052 | 0.029 | 0.021 | 0.036 | 0.067 | 0.074 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 1.153 | | | | | 1.153 | 1.153 | 1.153 | 1.153 | 1.153 |
| | LTE Band 12 | Front | 0.443 | 0.001 | 0.001 | 0.001 | 0.001 | 0.444 | 0.444 | 0.445 | 0.445 | 0.446 |
| | | Back | 0.515 | 0.306 | 0.084 | 0.111 | 0.251 | 0.821 | 0.626 | 0.932 | 0.850 | 0.961 |
| | | Left side | 0.182 | 0.007 | 0.013 | 0.014 | | 0.189 | 0.196 | 0.203 | 0.195 | 0.209 |
| | | Right side | 0.225 | 0.015 | 0.001 | 0.007 | 0.052 | 0.240 | 0.232 | 0.247 | 0.278 | 0.285 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 0.372 | | | | | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 |
| | LTE Band 13 | Front | 0.906 | 0.001 | 0.001 | 0.001 | 0.001 | 0.907 | 0.907 | 0.908 | 0.908 | 0.909 |
| | | Back | 0.911 | 0.306 | 0.084 | 0.111 | 0.251 | 1.217 | 1.022 | 1.328 | 1.246 | 1.357 |
| | | Left side | 0.241 | 0.007 | 0.013 | 0.014 | | 0.248 | 0.255 | 0.262 | 0.254 | 0.268 |
| | | Right side | 0.344 | 0.015 | 0.001 | 0.007 | 0.052 | 0.359 | 0.351 | 0.366 | 0.397 | 0.404 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 0.761 | | | | | 0.761 | 0.761 | 0.761 | 0.761 | 0.761 |
| | LTE Band 25 | Front | 0.413 | 0.001 | 0.001 | 0.001 | 0.001 | 0.414 | 0.414 | 0.415 | 0.415 | 0.416 |
| | | Back | 0.844 | 0.306 | 0.084 | 0.111 | 0.251 | 1.150 | 0.955 | 1.261 | 1.179 | 1.290 |
| | | Left side | 0.053 | 0.007 | 0.013 | 0.014 | | 0.060 | 0.067 | 0.074 | 0.066 | 0.080 |
| | | Right side | 0.062 | 0.015 | 0.001 | 0.007 | 0.052 | 0.077 | 0.069 | 0.084 | 0.115 | 0.122 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 1.312 | | | | | 1.312 | 1.312 | 1.312 | 1.312 | 1.312 |
| | LTE Band 26 | Front | 0.702 | 0.001 | 0.001 | 0.001 | 0.001 | 0.703 | 0.703 | 0.704 | 0.704 | 0.705 |
| | | Back | 0.850 | 0.306 | 0.084 | 0.111 | 0.251 | 1.156 | 0.961 | 1.267 | 1.185 | 1.296 |
| | | Left side | 0.242 | 0.007 | 0.013 | 0.014 | | 0.249 | 0.256 | 0.263 | 0.255 | 0.269 |
| | | Right side | 0.371 | 0.015 | 0.001 | 0.007 | 0.052 | 0.386 | 0.378 | 0.393 | 0.424 | 0.431 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 0.499 | | | | | 0.499 | 0.499 | 0.499 | 0.499 | 0.499 |
| | LTE Band 30 | Front | 0.540 | 0.001 | 0.001 | 0.001 | 0.001 | 0.541 | 0.541 | 0.542 | 0.542 | 0.543 |
| | | Back | 0.707 | 0.306 | 0.084 | 0.111 | 0.251 | 1.013 | 0.818 | 1.124 | 1.042 | 1.153 |
| | | Left side | 0.022 | 0.007 | 0.013 | 0.014 | | 0.029 | 0.036 | 0.043 | 0.035 | 0.049 |
| | | Right side | 0.063 | 0.015 | 0.001 | 0.007 | 0.052 | 0.078 | 0.070 | 0.085 | 0.116 | 0.123 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 1.160 | | | | | 1.160 | 1.160 | 1.160 | 1.160 | 1.160 |
| | LTE Band 41 | Front | 0.277 | 0.001 | 0.001 | 0.001 | 0.001 | 0.278 | 0.278 | 0.279 | 0.279 | 0.280 |
| | | Back | 0.378 | 0.306 | 0.084 | 0.111 | 0.251 | 0.684 | 0.489 | 0.795 | 0.713 | 0.824 |
| | | Left side | 0.139 | 0.007 | 0.013 | 0.014 | | 0.146 | 0.153 | 0.160 | 0.152 | 0.166 |
| | | Right side | 0.050 | 0.015 | 0.001 | 0.007 | 0.052 | 0.065 | 0.057 | 0.072 | 0.103 | 0.110 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 |
| | | Bottom side | 0.718 | | | | | 0.718 | 0.718 | 0.718 | 0.718 | 0.718 |
| | LTE Band 66 | Front | 0.352 | 0.001 | 0.001 | 0.001 | 0.001 | 0.353 | 0.353 | 0.354 | 0.354 | 0.355 |
| | | Back | 0.538 | 0.306 | 0.084 | 0.111 | 0.251 | 0.844 | 0.649 | 0.955 | 0.873 | 0.984 |
| | | Left side | 0.053 | 0.007 | 0.013 | 0.014 | | 0.060 | 0.067 | 0.074 | 0.066 | 0.080 |
| Right side | | 0.096 | 0.015 | 0.001 | 0.007 | 0.052 | 0.111 | 0.103 | 0.118 | 0.149 | 0.156 | |
| Top side | | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 | |
| Bottom side | | 1.251 | | | | | 1.251 | 1.251 | 1.251 | 1.251 | 1.251 | |
| LTE Band 71 | Front | 0.411 | 0.001 | 0.001 | 0.001 | 0.001 | 0.412 | 0.412 | 0.413 | 0.413 | 0.414 | |
| | Back | 0.525 | 0.306 | 0.084 | 0.111 | 0.251 | 0.831 | 0.636 | 0.942 | 0.860 | 0.971 | |
| | Left side | 0.178 | 0.007 | 0.013 | 0.014 | | 0.185 | 0.192 | 0.199 | 0.191 | 0.205 | |
| | Right side | 0.230 | 0.015 | 0.001 | 0.007 | 0.052 | 0.245 | 0.237 | 0.252 | 0.283 | 0.290 | |
| | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.145 | 0.076 | 0.221 | 0.002 | 0.078 | |
| | Bottom side | 0.214 | | | | | 0.214 | 0.214 | 0.214 | 0.214 | 0.214 | |



<5G NR EN-DC_DPS in-Active>

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 7 | 1+2+7 Summed 1g SAR (W/kg) | 1+3+6+7 Summed 1g SAR (W/kg) | 1+4+6+7 Summed 1g SAR (W/kg) | |
|-----------|-------------------|---------------|---------------------|-------------------|-------------------|-----------------|---------------|----------------------------|------------------------------|------------------------------|--------------|
| | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | FR1 | | | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | |
| DC_n5A | LTE Band 2 | Front | 0.241 | 0.001 | 0.001 | 0.001 | 0.001 | 0.048 | 0.290 | 0.291 | 0.291 |
| | | Back | 0.400 | 0.306 | 0.084 | 0.111 | 0.251 | 0.057 | 0.763 | 0.792 | 0.819 |
| | | Left side | 0.003 | 0.007 | 0.013 | 0.014 | | 0.001 | 0.011 | 0.017 | 0.018 |
| | | Right side | 0.002 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.018 | 0.056 | 0.062 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.036 | 0.181 | 0.038 | 0.113 |
| | | Bottom side | 0.693 | | | | | | 0.693 | 0.693 | 0.693 |
| | LTE Band 7 | Front | 0.207 | 0.001 | 0.001 | 0.001 | 0.001 | 0.048 | 0.256 | 0.257 | 0.257 |
| | | Back | 0.269 | 0.306 | 0.084 | 0.111 | 0.251 | 0.057 | 0.632 | 0.661 | 0.688 |
| | | Left side | 0.018 | 0.007 | 0.013 | 0.014 | | 0.001 | 0.026 | 0.032 | 0.033 |
| | | Right side | 0.012 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.028 | 0.066 | 0.072 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.036 | 0.181 | 0.038 | 0.113 |
| | | Bottom side | 0.621 | | | | | | 0.621 | 0.621 | 0.621 |
| | LTE Band 30 | Front | 0.214 | 0.001 | 0.001 | 0.001 | 0.001 | 0.048 | 0.263 | 0.264 | 0.264 |
| | | Back | 0.347 | 0.306 | 0.084 | 0.111 | 0.251 | 0.057 | 0.710 | 0.739 | 0.766 |
| | | Left side | 0.002 | 0.007 | 0.013 | 0.014 | | 0.001 | 0.010 | 0.016 | 0.017 |
| | | Right side | 0.004 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.020 | 0.058 | 0.064 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.036 | 0.181 | 0.038 | 0.113 |
| | | Bottom side | 0.692 | | | | | | 0.692 | 0.692 | 0.692 |
| | LTE Band 66 | Front | 0.228 | 0.001 | 0.001 | 0.001 | 0.001 | 0.048 | 0.277 | 0.278 | 0.278 |
| | | Back | 0.362 | 0.306 | 0.084 | 0.111 | 0.251 | 0.057 | 0.725 | 0.754 | 0.781 |
| | | Left side | 0.012 | 0.007 | 0.013 | 0.014 | | 0.001 | 0.020 | 0.026 | 0.027 |
| | | Right side | 0.008 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.024 | 0.062 | 0.068 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.036 | 0.181 | 0.038 | 0.113 |
| | | Bottom side | 0.530 | | | | | | 0.530 | 0.530 | 0.530 |



| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 7 | 1+2+7 Summed 1g SAR (W/kg) | 1+3+6+7 Summed 1g SAR (W/kg) | 1+4+6+7 Summed 1g SAR (W/kg) | |
|-------------|-------------------|---------------|---------------------|-------------------|-------------------|-----------------|---------------|----------------------------|------------------------------|------------------------------|-------|
| | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | FR1 | | | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | |
| DC_n66A | LTE Band 2 | Front | 0.241 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.448 | 0.449 | 0.449 |
| | | Back | 0.400 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.411 | 1.440 | 1.467 |
| | | Left side | 0.003 | 0.007 | 0.013 | 0.014 | | 0.053 | 0.063 | 0.069 | 0.070 |
| | | Right side | 0.002 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.018 | 0.056 | 0.062 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.749 | 0.894 | 0.751 | 0.826 |
| | | Bottom side | 0.693 | | | | | | 0.693 | 0.693 | 0.693 |
| | LTE Band 5 | Front | 0.318 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.525 | 0.526 | 0.526 |
| | | Back | 0.519 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.530 | 1.559 | 1.586 |
| | | Left side | 0.118 | 0.007 | 0.013 | 0.014 | | 0.053 | 0.178 | 0.184 | 0.185 |
| | | Right side | 0.070 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.086 | 0.124 | 0.130 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.749 | 0.894 | 0.751 | 0.826 |
| | | Bottom side | 0.322 | | | | | | 0.322 | 0.322 | 0.322 |
| | LTE Band 7 | Front | 0.207 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.414 | 0.415 | 0.415 |
| | | Back | 0.269 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.280 | 1.309 | 1.336 |
| | | Left side | 0.018 | 0.007 | 0.013 | 0.014 | | 0.053 | 0.078 | 0.084 | 0.085 |
| | | Right side | 0.012 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.028 | 0.066 | 0.072 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.749 | 0.894 | 0.751 | 0.826 |
| | | Bottom side | 0.621 | | | | | | 0.621 | 0.621 | 0.621 |
| | LTE Band 12 | Front | 0.443 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.650 | 0.651 | 0.651 |
| | | Back | 0.515 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.526 | 1.555 | 1.582 |
| | | Left side | 0.182 | 0.007 | 0.013 | 0.014 | | 0.053 | 0.242 | 0.248 | 0.249 |
| | | Right side | 0.225 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.241 | 0.279 | 0.285 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.749 | 0.894 | 0.751 | 0.826 |
| | | Bottom side | 0.372 | | | | | | 0.372 | 0.372 | 0.372 |
| | LTE Band 13 | Front | 0.351 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.558 | 0.559 | 0.559 |
| | | Back | 0.523 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.534 | 1.563 | 1.590 |
| | | Left side | 0.014 | 0.007 | 0.013 | 0.014 | | 0.053 | 0.074 | 0.080 | 0.081 |
| | | Right side | 0.067 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.083 | 0.121 | 0.127 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.749 | 0.894 | 0.751 | 0.826 |
| | | Bottom side | 0.282 | | | | | | 0.282 | 0.282 | 0.282 |
| LTE Band 30 | Front | 0.214 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.421 | 0.422 | 0.422 | |
| | Back | 0.347 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.358 | 1.387 | 1.414 | |
| | Left side | 0.002 | 0.007 | 0.013 | 0.014 | | 0.053 | 0.062 | 0.068 | 0.069 | |
| | Right side | 0.004 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.020 | 0.058 | 0.064 | |
| | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.749 | 0.894 | 0.751 | 0.826 | |
| | Bottom side | 0.692 | | | | | | 0.692 | 0.692 | 0.692 | |
| LTE Band 66 | Front | 0.228 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.435 | 0.436 | 0.436 | |
| | Back | 0.362 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.373 | 1.402 | 1.429 | |
| | Left side | 0.012 | 0.007 | 0.013 | 0.014 | | 0.053 | 0.072 | 0.078 | 0.079 | |
| | Right side | 0.008 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.024 | 0.062 | 0.068 | |
| | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.749 | 0.894 | 0.751 | 0.826 | |
| | Bottom side | 0.530 | | | | | | 0.530 | 0.530 | 0.530 | |



| WWAN Band | | Exposure Position | 1 | 2 | 3 | 4 | 6 | 7 | 1+2+7 Summed 1g SAR (W/kg) | 1+3+6+7 Summed 1g SAR (W/kg) | 1+4+6+7 Summed 1g SAR (W/kg) |
|-----------|-------------|-------------------|---------------|---------------------|-------------------|-------------------|-----------------|---------------|----------------------------|------------------------------|------------------------------|
| | | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | FR1 | | | |
| | | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | |
| DC_n71A | LTE Band 2 | Front | 0.241 | 0.001 | 0.001 | 0.001 | 0.001 | 0.033 | 0.275 | 0.276 | 0.276 |
| | | Back | 0.400 | 0.306 | 0.084 | 0.111 | 0.251 | 0.122 | 0.828 | 0.857 | 0.884 |
| | | Left side | 0.003 | 0.007 | 0.013 | 0.014 | | 0.029 | 0.039 | 0.045 | 0.046 |
| | | Right side | 0.002 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.018 | 0.056 | 0.062 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.039 | 0.184 | 0.041 | 0.116 |
| | | Bottom side | 0.693 | | | | | | 0.693 | 0.693 | 0.693 |
| | LTE Band 7 | Front | 0.207 | 0.001 | 0.001 | 0.001 | 0.001 | 0.033 | 0.241 | 0.242 | 0.242 |
| | | Back | 0.269 | 0.306 | 0.084 | 0.111 | 0.251 | 0.122 | 0.697 | 0.726 | 0.753 |
| | | Left side | 0.018 | 0.007 | 0.013 | 0.014 | | 0.029 | 0.054 | 0.060 | 0.061 |
| | | Right side | 0.012 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.028 | 0.066 | 0.072 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.039 | 0.184 | 0.041 | 0.116 |
| | | Bottom side | 0.621 | | | | | | 0.621 | 0.621 | 0.621 |
| | LTE Band 66 | Front | 0.228 | 0.001 | 0.001 | 0.001 | 0.001 | 0.033 | 0.262 | 0.263 | 0.263 |
| | | Back | 0.362 | 0.306 | 0.084 | 0.111 | 0.251 | 0.122 | 0.790 | 0.819 | 0.846 |
| | | Left side | 0.012 | 0.007 | 0.013 | 0.014 | | 0.029 | 0.048 | 0.054 | 0.055 |
| | | Right side | 0.008 | 0.015 | 0.001 | 0.007 | 0.052 | 0.001 | 0.024 | 0.062 | 0.068 |
| | | Top side | | 0.145 | 0.001 | 0.076 | 0.001 | 0.039 | 0.184 | 0.041 | 0.116 |
| | | Bottom side | 0.530 | | | | | | 0.530 | 0.530 | 0.530 |

18.3 Body-Worn Accessory Exposure Conditions

<Standalone>

| Exposure Position | 2 | 3 | 4 | 6 | 2+4 Summed 1g SAR (W/kg) | 3+4+6 Summed 1g SAR (W/kg) |
|-------------------|--------------------------------------|------------------------------------|------------------------------------|----------------------------------|--------------------------|----------------------------|
| | 2.4GHz WLAN Ant 4+6 1g SAR (W/kg) | 2.4GHz WLAN Ant 4 1g SAR (W/kg) | 5GHz WLAN Ant 3+6 1g SAR (W/kg) | Bluetooth Ant 6 1g SAR (W/kg) | | |
| Front at 5mm | 0.023 | 0.006 | 0.001 | 0.001 | 0.024 | 0.008 |
| Back at 5mm | 0.576 | 0.179 | 0.212 | 0.251 | 0.788 | 0.642 |
| Front at 14mm | 0.005 | 0.001 | 0.001 | 0.001 | 0.006 | 0.003 |
| Back at 18mm | 0.171 | 0.074 | 0.127 | 0.251 | 0.298 | 0.452 |

<Sim-Tx>

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 1+2 Summed 1g SAR (W/kg) | 1+4 Summed 1g SAR (W/kg) | 1+2+4 Summed 1g SAR (W/kg) | 1+3+6 Summed 1g SAR (W/kg) | 1+3+4+6 Summed 1g SAR (W/kg) | |
|--------------|-------------------|--------------------|-----------------------------------|---------------------------------|---------------------------------|-------------------------------|--------------------------|--------------------------|----------------------------|----------------------------|------------------------------|--------------|
| | | WWAN 1g SAR (W/kg) | 2.4GHz WLAN Ant 4+6 1g SAR (W/kg) | 2.4GHz WLAN Ant 4 1g SAR (W/kg) | 5GHz WLAN Ant 3+6 1g SAR (W/kg) | Bluetooth Ant 6 1g SAR (W/kg) | | | | | | |
| GSM | GSM850 | Front at 5mm | 0.608 | 0.001 | 0.001 | 0.001 | 0.001 | 0.609 | 0.609 | 0.610 | 0.610 | 0.611 |
| | | Back at 5mm | 1.136 | 0.306 | 0.084 | 0.095 | 0.251 | 1.442 | 1.231 | 1.537 | 1.471 | 1.566 |
| | GSM1900 | Front at 5mm | 0.555 | 0.001 | 0.001 | 0.001 | 0.001 | 0.556 | 0.556 | 0.557 | 0.557 | 0.558 |
| | | Back at 5mm | 0.591 | 0.306 | 0.084 | 0.095 | 0.251 | 0.897 | 0.686 | 0.992 | 0.926 | 1.021 |
| | | Front at 14mm | 0.539 | 0.003 | 0.001 | 0.001 | 0.001 | 0.542 | 0.540 | 0.543 | 0.541 | 0.542 |
| Back at 18mm | 0.528 | 0.078 | 0.028 | 0.058 | 0.251 | 0.606 | 0.586 | 0.664 | 0.807 | 0.865 | | |
| WCDMA | WCDMA II | Front at 5mm | 0.693 | 0.001 | 0.001 | 0.001 | 0.001 | 0.694 | 0.694 | 0.695 | 0.695 | 0.696 |
| | | Back at 5mm | 0.845 | 0.306 | 0.084 | 0.095 | 0.251 | 1.151 | 0.940 | 1.246 | 1.180 | 1.275 |
| | | Front at 14mm | 0.627 | 0.003 | 0.001 | 0.001 | 0.001 | 0.630 | 0.628 | 0.631 | 0.629 | 0.630 |
| | | Back at 18mm | 0.419 | 0.078 | 0.028 | 0.058 | 0.251 | 0.497 | 0.477 | 0.555 | 0.698 | 0.756 |
| | WCDMA IV | Front at 5mm | 0.574 | 0.001 | 0.001 | 0.001 | 0.001 | 0.575 | 0.575 | 0.576 | 0.576 | 0.577 |
| | | Back at 5mm | 0.955 | 0.306 | 0.084 | 0.095 | 0.251 | 1.261 | 1.050 | 1.356 | 1.290 | 1.385 |
| | | Front at 14mm | 0.354 | 0.003 | 0.001 | 0.001 | 0.001 | 0.357 | 0.355 | 0.358 | 0.356 | 0.357 |
| | WCDMA V | Back at 18mm | 0.215 | 0.078 | 0.028 | 0.058 | 0.251 | 0.293 | 0.273 | 0.351 | 0.494 | 0.552 |
| | | Front at 5mm | 0.518 | 0.001 | 0.001 | 0.001 | 0.001 | 0.519 | 0.519 | 0.520 | 0.520 | 0.521 |
| CDMA | CDMA BC0 | Back at 5mm | 0.614 | 0.306 | 0.084 | 0.095 | 0.251 | 0.920 | 0.709 | 1.015 | 0.949 | 1.044 |
| | | Front at 5mm | 0.655 | 0.001 | 0.001 | 0.001 | 0.001 | 0.656 | 0.656 | 0.657 | 0.657 | 0.658 |
| | CDMA BC1 | Back at 5mm | 0.889 | 0.306 | 0.084 | 0.095 | 0.251 | 1.195 | 0.984 | 1.290 | 1.224 | 1.319 |
| | | Front at 5mm | 0.663 | 0.001 | 0.001 | 0.001 | 0.001 | 0.664 | 0.664 | 0.665 | 0.665 | 0.666 |
| | | Back at 5mm | 0.934 | 0.306 | 0.084 | 0.095 | 0.251 | 1.240 | 1.029 | 1.335 | 1.269 | 1.364 |
| | | Front at 14mm | 0.490 | 0.003 | 0.001 | 0.001 | 0.001 | 0.493 | 0.491 | 0.494 | 0.492 | 0.493 |
| Back at 18mm | 0.500 | 0.078 | 0.028 | 0.058 | 0.251 | 0.578 | 0.558 | 0.636 | 0.779 | 0.837 | | |



| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 1+2 Summed 1g SAR (W/kg) | 1+4 Summed 1g SAR (W/kg) | 1+2+4 Summed 1g SAR (W/kg) | 1+3+6 Summed 1g SAR (W/kg) | 1+3+4+6 Summed 1g SAR (W/kg) | |
|-------------|-------------------|---------------|---------------------|-------------------|-------------------|-----------------|--------------------------|--------------------------|----------------------------|----------------------------|------------------------------|--------------|
| | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | | | | | | |
| | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | | | | |
| LTE | LTE Band 7 | Front at 5mm | 0.357 | 0.001 | 0.001 | 0.001 | 0.001 | 0.358 | 0.358 | 0.359 | 0.359 | 0.360 |
| | | Back at 5mm | 0.468 | 0.306 | 0.084 | 0.095 | 0.251 | 0.774 | 0.563 | 0.869 | 0.803 | 0.898 |
| | | Front at 14mm | 0.204 | 0.003 | 0.001 | 0.001 | 0.001 | 0.207 | 0.205 | 0.208 | 0.206 | 0.207 |
| | | Back at 18mm | 0.218 | 0.078 | 0.028 | 0.058 | 0.251 | 0.296 | 0.276 | 0.354 | 0.497 | 0.555 |
| | LTE Band 12 | Front at 5mm | 0.443 | 0.001 | 0.001 | 0.001 | 0.001 | 0.444 | 0.444 | 0.445 | 0.445 | 0.446 |
| | | Back at 5mm | 0.540 | 0.306 | 0.084 | 0.095 | 0.251 | 0.846 | 0.635 | 0.941 | 0.875 | 0.970 |
| | LTE Band 13 | Front at 5mm | 0.906 | 0.001 | 0.001 | 0.001 | 0.001 | 0.907 | 0.907 | 0.908 | 0.908 | 0.909 |
| | | Back at 5mm | 0.911 | 0.306 | 0.084 | 0.095 | 0.251 | 1.217 | 1.006 | 1.312 | 1.246 | 1.341 |
| | LTE Band 25 | Front at 5mm | 0.413 | 0.001 | 0.001 | 0.001 | 0.001 | 0.414 | 0.414 | 0.415 | 0.415 | 0.416 |
| | | Back at 5mm | 0.844 | 0.306 | 0.084 | 0.095 | 0.251 | 1.150 | 0.939 | 1.245 | 1.179 | 1.274 |
| | | Front at 14mm | 0.901 | 0.003 | 0.001 | 0.001 | 0.001 | 0.904 | 0.902 | 0.905 | 0.903 | 0.904 |
| | | Back at 18mm | 0.736 | 0.078 | 0.028 | 0.058 | 0.251 | 0.814 | 0.794 | 0.872 | 1.015 | 1.073 |
| | LTE Band 26 | Front at 5mm | 0.702 | 0.001 | 0.001 | 0.001 | 0.001 | 0.703 | 0.703 | 0.704 | 0.704 | 0.705 |
| | | Back at 5mm | 0.850 | 0.306 | 0.084 | 0.095 | 0.251 | 1.156 | 0.945 | 1.251 | 1.185 | 1.280 |
| | LTE Band 30 | Front at 5mm | 0.540 | 0.001 | 0.001 | 0.001 | 0.001 | 0.541 | 0.541 | 0.542 | 0.542 | 0.543 |
| | | Back at 5mm | 0.707 | 0.306 | 0.084 | 0.095 | 0.251 | 1.013 | 0.802 | 1.108 | 1.042 | 1.137 |
| | | Front at 14mm | 0.303 | 0.003 | 0.001 | 0.001 | 0.001 | 0.306 | 0.304 | 0.307 | 0.305 | 0.306 |
| | | Back at 18mm | 0.265 | 0.078 | 0.028 | 0.058 | 0.251 | 0.343 | 0.323 | 0.401 | 0.544 | 0.602 |
| | LTE Band 41 | Front at 5mm | 0.277 | 0.001 | 0.001 | 0.001 | 0.001 | 0.278 | 0.278 | 0.279 | 0.279 | 0.280 |
| | | Back at 5mm | 0.378 | 0.306 | 0.084 | 0.095 | 0.251 | 0.684 | 0.473 | 0.779 | 0.713 | 0.808 |
| | LTE Band 66 | Front at 5mm | 0.352 | 0.001 | 0.001 | 0.001 | 0.001 | 0.353 | 0.353 | 0.354 | 0.354 | 0.355 |
| | | Back at 5mm | 0.538 | 0.306 | 0.084 | 0.095 | 0.251 | 0.844 | 0.633 | 0.939 | 0.873 | 0.968 |
| | | Front at 14mm | 0.633 | 0.003 | 0.001 | 0.001 | 0.001 | 0.636 | 0.634 | 0.637 | 0.635 | 0.636 |
| | | Back at 18mm | 0.547 | 0.078 | 0.028 | 0.058 | 0.251 | 0.625 | 0.605 | 0.683 | 0.826 | 0.884 |
| LTE Band 71 | Front at 5mm | 0.411 | 0.001 | 0.001 | 0.001 | 0.001 | 0.412 | 0.412 | 0.413 | 0.413 | 0.414 | |
| | Back at 5mm | 0.525 | 0.306 | 0.084 | 0.095 | 0.251 | 0.831 | 0.620 | 0.926 | 0.860 | 0.955 | |



<5G NR EN-DC_DPS in-Active>

| WWAN Band | | Exposure Position | 1 | 2 | 3 | 4 | 6 | 7 | 1+2+7 Summed 1g SAR (W/kg) | 1+3+6+7 Summed 1g SAR (W/kg) | 1+4+6+7 Summed 1g SAR (W/kg) |
|-------------|-------------|-------------------|---------------|---------------------|-------------------|-------------------|-----------------|---------------|----------------------------|------------------------------|------------------------------|
| | | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | FR1 | | | |
| | | | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | 1g SAR (W/kg) | | | |
| DC_n5A | LTE Band 2 | Front | 0.241 | 0.001 | 0.001 | 0.001 | 0.001 | 0.048 | 0.290 | 0.291 | 0.291 |
| | | Back | 0.400 | 0.306 | 0.084 | 0.111 | 0.251 | 0.057 | 0.763 | 0.792 | 0.819 |
| | LTE Band 7 | Front | 0.207 | 0.001 | 0.001 | 0.001 | 0.001 | 0.048 | 0.256 | 0.257 | 0.257 |
| | | Back | 0.269 | 0.306 | 0.084 | 0.111 | 0.251 | 0.057 | 0.632 | 0.661 | 0.688 |
| | LTE Band 30 | Front | 0.214 | 0.001 | 0.001 | 0.001 | 0.001 | 0.048 | 0.263 | 0.264 | 0.264 |
| | | Back | 0.347 | 0.306 | 0.084 | 0.111 | 0.251 | 0.057 | 0.710 | 0.739 | 0.766 |
| LTE Band 66 | Front | 0.228 | 0.001 | 0.001 | 0.001 | 0.001 | 0.048 | 0.277 | 0.278 | 0.278 | |
| | Back | 0.362 | 0.306 | 0.084 | 0.111 | 0.251 | 0.057 | 0.725 | 0.754 | 0.781 | |
| DC_n66A | LTE Band 2 | Front | 0.241 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.448 | 0.449 | 0.449 |
| | | Back | 0.400 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.411 | 1.440 | 1.467 |
| | LTE Band 5 | Front | 0.318 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.525 | 0.526 | 0.526 |
| | | Back | 0.519 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.530 | 1.559 | 1.586 |
| | LTE Band 7 | Front | 0.207 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.414 | 0.415 | 0.415 |
| | | Back | 0.269 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.280 | 1.309 | 1.336 |
| | LTE Band 12 | Front | 0.443 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.650 | 0.651 | 0.651 |
| | | Back | 0.515 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.526 | 1.555 | 1.582 |
| | LTE Band 13 | Front | 0.351 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.558 | 0.559 | 0.559 |
| | | Back | 0.523 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.534 | 1.563 | 1.590 |
| | LTE Band 30 | Front | 0.214 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.421 | 0.422 | 0.422 |
| | | Back | 0.347 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.358 | 1.387 | 1.414 |
| LTE Band 66 | Front | 0.228 | 0.001 | 0.001 | 0.001 | 0.001 | 0.206 | 0.435 | 0.436 | 0.436 | |
| | Back | 0.362 | 0.306 | 0.084 | 0.111 | 0.251 | 0.705 | 1.373 | 1.402 | 1.429 | |
| DC_n71A | LTE Band 2 | Front | 0.241 | 0.001 | 0.001 | 0.001 | 0.001 | 0.033 | 0.275 | 0.276 | 0.276 |
| | | Back | 0.400 | 0.306 | 0.084 | 0.111 | 0.251 | 0.122 | 0.828 | 0.857 | 0.884 |
| | LTE Band 7 | Front | 0.207 | 0.001 | 0.001 | 0.001 | 0.001 | 0.033 | 0.241 | 0.242 | 0.242 |
| | | Back | 0.269 | 0.306 | 0.084 | 0.111 | 0.251 | 0.122 | 0.697 | 0.726 | 0.753 |
| | LTE Band 66 | Front | 0.228 | 0.001 | 0.001 | 0.001 | 0.001 | 0.033 | 0.262 | 0.263 | 0.263 |
| | | Back | 0.362 | 0.306 | 0.084 | 0.111 | 0.251 | 0.122 | 0.790 | 0.819 | 0.846 |

18.4 Product Specific Exposure Conditions

<Standalone>

| Exposure Position | 2 | 3 | 4 | 6 | 2+4 Summed 10g SAR (W/kg) | 3+6 Summed 10g SAR (W/kg) | 4+6 Summed 10g SAR (W/kg) |
|-------------------|---|---|---|---|---------------------------------|---------------------------------|---------------------------------|
| | 2.4GHz WLAN Ant 4+6 10g SAR (W/kg) | 2.4GHz WLAN Ant 4 10g SAR (W/kg) | 5GHz WLAN Ant 3+6 10g SAR (W/kg) | Bluetooth Ant 6 10g SAR (W/kg) | | | |
| Front | | | 0.460 | | 0.460 | 0.000 | 0.460 |
| Back | 1.155 | | 0.918 | | 2.073 | 0.000 | 0.918 |
| Left side | | | 0.472 | | 0.472 | 0.000 | 0.472 |
| Right side | | | 0.079 | | 0.079 | 0.000 | 0.079 |
| Top side | | | 0.447 | | 0.447 | 0.000 | 0.447 |
| Bottom side | | | | | 0.000 | 0.000 | 0.000 |

<Sim-Tx>

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 1+2 Summed 10g SAR (W/kg) | 1+4 Summed 10g SAR (W/kg) | 1+2+4 Summed 10g SAR (W/kg) | 1+3+6 Summed 10g SAR (W/kg) | 1+3+4+6 Summed 10g SAR (W/kg) | |
|-----------|-------------------|---------------------------|--|--|--|---|------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|--|-------|
| | | WWAN 10g SAR (W/kg) | 2.4GHz WLAN Ant 4+6 10g SAR (W/kg) | 2.4GHz WLAN Ant 4 10g SAR (W/kg) | 5GHz WLAN Ant 3+6 10g SAR (W/kg) | Bluetooth Ant 6 10g SAR (W/kg) | | | | | | |
| GSM | GSM1900 | Front | 3.562 | | | 0.184 | | 3.562 | 3.746 | 3.746 | 3.562 | 3.746 |
| | | Back | 3.587 | | | 0.383 | | 3.587 | 3.970 | 3.970 | 3.587 | 3.970 |
| | | Left side | | | | 0.200 | | 0.000 | 0.200 | 0.200 | 0.000 | 0.200 |
| | | Right side | | | | 0.039 | | 0.000 | 0.039 | 0.039 | 0.000 | 0.039 |
| | | Top side | | | | 0.194 | | 0.000 | 0.194 | 0.194 | 0.000 | 0.194 |
| | | Bottom side | 1.385 | | | | | 1.385 | 1.385 | 1.385 | 1.385 | 1.385 |
| WCDMA | WCDMA II | Front | 3.383 | | | 0.184 | | 3.383 | 3.567 | 3.567 | 3.383 | 3.567 |
| | | Back | 3.592 | | | 0.383 | | 3.592 | 3.975 | 3.975 | 3.592 | 3.975 |
| | | Left side | | | | 0.200 | | 0.000 | 0.200 | 0.200 | 0.000 | 0.200 |
| | | Right side | | | | 0.039 | | 0.000 | 0.039 | 0.039 | 0.000 | 0.039 |
| | | Top side | | | | 0.194 | | 0.000 | 0.194 | 0.194 | 0.000 | 0.194 |
| | | Bottom side | 1.819 | | | | | 1.819 | 1.819 | 1.819 | 1.819 | 1.819 |
| | WCDMA IV | Front | 2.835 | | | 0.184 | | 2.835 | 3.019 | 3.019 | 2.835 | 3.019 |
| | | Back | 3.238 | | | 0.383 | | 3.238 | 3.621 | 3.621 | 3.238 | 3.621 |
| | | Left side | | | | 0.200 | | 0.000 | 0.200 | 0.200 | 0.000 | 0.200 |
| | | Right side | | | | 0.039 | | 0.000 | 0.039 | 0.039 | 0.000 | 0.039 |
| | | Top side | | | | 0.194 | | 0.000 | 0.194 | 0.194 | 0.000 | 0.194 |
| | | Bottom side | 1.820 | | | | | 1.820 | 1.820 | 1.820 | 1.820 | 1.820 |
| CDMA | CDMA BC1 | Front | 3.306 | | | 0.184 | | 3.306 | 3.490 | 3.490 | 3.306 | 3.490 |
| | | Back | 3.490 | | | 0.383 | | 3.490 | 3.873 | 3.873 | 3.490 | 3.873 |
| | | Left side | | | | 0.200 | | 0.000 | 0.200 | 0.200 | 0.000 | 0.200 |
| | | Right side | | | | 0.039 | | 0.000 | 0.039 | 0.039 | 0.000 | 0.039 |
| | | Top side | | | | 0.194 | | 0.000 | 0.194 | 0.194 | 0.000 | 0.194 |
| | | Bottom side | 3.117 | | | | | 3.117 | 3.117 | 3.117 | 3.117 | 3.117 |

| WWAN Band | Exposure Position | 1 | 2 | 3 | 4 | 6 | 1+2 Summed 10g SAR (W/kg) | 1+4 Summed 10g SAR (W/kg) | 1+2+4 Summed 10g SAR (W/kg) | 1+3+6 Summed 10g SAR (W/kg) | 1+3+4+6 Summed 10g SAR (W/kg) | |
|-----------|-------------------|----------------|---------------------|-------------------|-------------------|-----------------|---------------------------|---------------------------|-----------------------------|-----------------------------|-------------------------------|-------|
| | | WWAN | 2.4GHz WLAN Ant 4+6 | 2.4GHz WLAN Ant 4 | 5GHz WLAN Ant 3+6 | Bluetooth Ant 6 | | | | | | |
| | | 10g SAR (W/kg) | 10g SAR (W/kg) | 10g SAR (W/kg) | 10g SAR (W/kg) | 10g SAR (W/kg) | | | | | | |
| LTE | LTE Band 7 | Front | 2.190 | | | 0.184 | | 2.190 | 2.374 | 2.374 | 2.190 | 2.374 |
| | | Back | 2.561 | | | 0.383 | | 2.561 | 2.944 | 2.944 | 2.561 | 2.944 |
| | | Left side | | | | 0.200 | | 0.000 | 0.200 | 0.200 | 0.000 | 0.200 |
| | | Right side | | | | 0.039 | | 0.000 | 0.039 | 0.039 | 0.000 | 0.039 |
| | | Top side | | | | 0.194 | | 0.000 | 0.194 | 0.194 | 0.000 | 0.194 |
| | | Bottom side | 3.016 | | | | | 3.016 | 3.016 | 3.016 | 3.016 | 3.016 |
| | LTE Band 25 | Front | 3.302 | | | 0.184 | | 3.302 | 3.486 | 3.486 | 3.302 | 3.486 |
| | | Back | 3.591 | | | 0.383 | | 3.591 | 3.974 | 3.974 | 3.591 | 3.974 |
| | | Left side | | | | 0.200 | | 0.000 | 0.200 | 0.200 | 0.000 | 0.200 |
| | | Right side | | | | 0.039 | | 0.000 | 0.039 | 0.039 | 0.000 | 0.039 |
| | | Top side | | | | 0.194 | | 0.000 | 0.194 | 0.194 | 0.000 | 0.194 |
| | | Bottom side | 1.751 | | | | | 1.751 | 1.751 | 1.751 | 1.751 | 1.751 |
| | LTE Band 30 | Front | 1.902 | | | 0.184 | | 1.902 | 2.086 | 2.086 | 1.902 | 2.086 |
| | | Back | 2.197 | | | 0.383 | | 2.197 | 2.580 | 2.580 | 2.197 | 2.580 |
| | | Left side | | | | 0.200 | | 0.000 | 0.200 | 0.200 | 0.000 | 0.200 |
| | | Right side | | | | 0.039 | | 0.000 | 0.039 | 0.039 | 0.000 | 0.039 |
| | | Top side | | | | 0.194 | | 0.000 | 0.194 | 0.194 | 0.000 | 0.194 |
| | | Bottom side | 1.297 | | | | | 1.297 | 1.297 | 1.297 | 1.297 | 1.297 |
| | LTE Band 66 | Front | 2.960 | | | 0.184 | | 2.960 | 3.144 | 3.144 | 2.960 | 3.144 |
| | | Back | 3.110 | | | 0.383 | | 3.110 | 3.493 | 3.493 | 3.110 | 3.493 |
| | | Left side | | | | 0.200 | | 0.000 | 0.200 | 0.200 | 0.000 | 0.200 |
| | | Right side | | | | 0.039 | | 0.000 | 0.039 | 0.039 | 0.000 | 0.039 |
| | | Top side | | | | 0.194 | | 0.000 | 0.194 | 0.194 | 0.000 | 0.194 |
| | | Bottom side | 1.974 | | | | | 1.974 | 1.974 | 1.974 | 1.974 | 1.974 |

Test Engineer : Iran Wang Tommy Chen Steven Chang Mood Huang and Tom Jiang



19. 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.

20. 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 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [7] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [8] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [9] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [10] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [11] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.
- [12] FCC KDB 941225 D07 v01r02, " SAR Evaluation Procedures for UMPC Mini-Tablet Devices", Oct 2015.
- [13] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [14] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.