# SAR TEST REPORT

## No. I21Z60727-SEM06

**For**

**BLU Products,Inc.**

**Smart Phone**

**Model name: B140DL**

**With**

**Hardware Version: V1.0**

**Software Version: BLU_B140DL_V11.0.01.05.01.04_FSec**

**FCC ID: YHLBLUB140DL**

**Issued Date: 2021-6-19**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

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## REPORT HISTORY

| Report Number | Revision | Issue Date | Description |
|---|---|---|---|
| I21Z60727-SEM06 | Rev.0 | 2021-6-19 | Initial creation of test report |

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# 1 Test Laboratory

## 1.1 Testing Location

| | |
|---|---|
| Company Name: | CTTL(Shouxiang) |
| Address: | No. 51 Shouxiang Science Building, Xueyuan Road, Haidian District, Beijing, P. R. China100191 |

## 1.2 Testing Environment

| | |
|---|---|
| Temperature: | 18°C~25°C, |
| Relative humidity: | 30%~ 70% |
| Ground system resistance: | < 0.5 Ω |
| Ambient noise & Reflection: | < 0.012 W/kg |

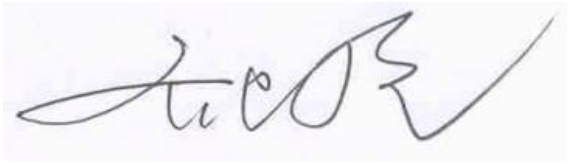
## 1.3 Project Data

| | |
|---|---|
| Project Leader: | Qi Dianyuan |
| Test Engineer: | Lin Xiaojun |
| Testing Start Date: | May 21, 2021 |
| Testing End Date: | June 7, 2021 |

## 1.4 Signature

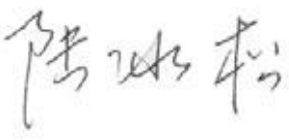
**Lin Xiaojun**

**(Prepared this test report)**



**Qi Dianyuan**

**(Reviewed this test report)**



**Lu Bingsong**

**Deputy Director of the laboratory**

**(Approved this test report)**

## 2 Statement of Compliance

The maximum results of SAR found during testing for BLU Products,Inc. Smart Phone B140DL are as follows:

**Table 2.1: Highest Reported SAR (1g)**

| Equipment Class | Mode | Highest Reported SAR (1g) | | | |
|---|---|---|---|---|---|
| | | 1g SAR Head | 1g SAR Body-worn 15mm | 1g SAR Hotspot 10mm | Product Specific 10-g SAR 0mm |
| PCE | GSM 850 | 0.21 | / | 0.4 | / |
| | PCS 1900 | 0.29 | / | 1.31 | 3.94 |
| | WCDMA1900 | 0.6 | / | 1.42 | 3.43 |
| | WCDMA1700 | 0.41 | 0.89 | **1.5** | 3.51 |
| | WCDMA850 | 0.29 | / | 0.46 | / |
| | LTE Band 12 | 0.38 | / | 0.54 | / |
| | LTE Band 13 | 0.41 | / | 0.68 | / |
| | LTE Band 25 | 0.58 | 0.41 | 1.01 | 3.1 |
| | LTE Band 26 | 0.39 | / | 0.61 | / |
| | LTE Band 41 | 0.11 | 0.5 | 1.21 | 2.66 |
| | LTE Band 41 HPUE | 0.15 | 1.09 | 1.3 | 3.53 |
| | LTE Band 66 | 0.45 | 0.49 | 1.01 | 3.65 |
| | LTE Band 71 | 0.38 | / | 0.47 | / |
| DTS | WLAN 2.4 GHz | 0.69 | 0.5 | 0.58 | 1.87 |

The SAR values found for the Mobile Phone are below the maximum recommended levels of 1.6 W/kg as averaged over any 1g tissue according to the ANSI C95.1-1992.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and which provides a minimum separation distance of 10 mm for hotspot and 15mm for body worn between this device and the body of the user. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power output.

The measurement together with the test system set-up is described in annex C of this test report. A detailed description of the equipment under test can be found in chapter 4 of this test report. The highest reported SAR value is obtained at the case of **(Table 2.1),** and the values are**: 1.5 W/kg(1g).**

**Table 2.2: The sum of reported SAR values for main antenna and WiFi2.4G**

| | Position | Main antenna | WiFi | Sum |
|---|---|---|---|---|
| **Highest reported SAR value for Head** | Left hand, Touch cheek | 0.6 | 0.69 | **1.29** |
| **Highest reported SAR value for Body** | Rear 10mm | 1.21 | 0.34 | **1.55** |
| | Bottom 10mm | 1.5 | / | **1.5** |

**Table 2.4: The sum of reported SAR values for main antenna and BT**

| | Position | Main antenna | BT | Sum |
|---|---|---|---|---|
| **Maximum reported SAR value for Head** | Left hand, Touch cheek | 0.6 | 0.17[1] | **0.77** |
| **Maximum reported SAR value for Body** | Rear 10mm | 1.31 | 0.09[1] | **1.4** |
| | Bottom 10mm | 1.5 | / | **1.5** |

[1] - Estimated SAR for Bluetooth (see the table 13.3)

According to the above tables, the highest sum of reported SAR values is **1.55 W/kg (1g)**. The detail for simultaneous transmission consideration is described in chapter 13.

# 3 Client Information

## 3.1 Applicant Information

| | |
|---|---|
| Company Name: | BLU Products,Inc. |
| Address/Post: | 10814 NW 33rd St # 100 Doral, FL 33172,USA |
| Contact Person: | Zeng wei |
| Contact Email: | zwei@ctasiasz.com |
| Telephone: | 305.715.7171 |
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## 3.2 Manufacturer Information

| | |
|---|---|
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| Contact Person: | Zeng wei |
| Contact Email: | zwei@ctasiasz.com |
| Telephone: | 305.715.7171 |
| Fax | 305.436.8819 |

# 4 Equipment Under Test (EUT) and Ancillary Equipment (AE)

## 4.1 About EUT

| | |
|---|---|
| Description: | Smart Phone |
| Model name: | B140DL |
| Operating mode(s): | UMTS FDD 2/4/5, BT, Wi-Fi(2.4G)<br>LTE Band 12/13/25/26/41/66/71 |
| Tested Tx Frequency: | 824 – 849 MHz (GSM 850) |
| | 1850 – 1910 MHz (GSM 1900) |
| | 824–849 MHz (WCDMA 850 Band V) |
| | 1710 – 1755 MHz (WCDMA 1700 Band IV) |
| | 1850–1910 MHz (WCDMA1900 Band II) |
| | 699 – 716 MHz (LTE Band 12) |
| | 777 –787 MHz (LTE Band 13) |
| | 1850 – 1915 MHz (LTE Band 25) |
| | 814 – 849 MHz (LTE Band 26) |
| | 2496 – 2690 MHz (LTE Band 41) |
| | 1710 – 1780 MHz (LTE Band 66) |
| | 663 – 698 MHz (LTE Band 71) |
| | 2402 – 2480 MHz (Bluetooth) |
| | 2412 – 2462 MHz (Wi-Fi 2.4G) |
| Test device Production information: | Production unit |
| Device type: | Portable device |
| Antenna type: | Integrated antenna |
| Hotspot mode: | Support |

## 4.2 Internal Identification of EUT used during the test

| EUT ID* | IMEI | HW | SW Version |
|---|---|---|---|
| EUT1 | 353011720006873 | V1.0 | BLU_B140DL_V11.0.01.05.01.04_FSec |
| EUT2 | 353011720006246 | V1.0 | BLU_B140DL_V11.0.01.05.01.04_FSec |
| EUT3 | 353011720019694 | V1.0 | BLU_B140DL_V11.0.01.05.01.04_FSec |
| EUT4 | 353011720019900 | V1.0 | BLU_B140DL_V11.0.01.05.01.04_FSec |

*EUT ID: is used to identify the test sample in the lab internally.

**Note:** It is performed to test SAR with the EUT3~4 and conducted power with the EUT1~2.

## 4.3 Internal Identification of AE used during the test

| AE ID* | Description | Model | SN | Manufacturer |
|---|---|---|---|---|
| AE1 | Battery | PT34H406082J | P104-BTC000-000 | Ningbo Veken Battery Co., Ltd. |

*AE ID: is used to identify the test sample in the lab internally.

# 5 TEST METHODOLOGY

## 5.1 Applicable Limit Regulations

**ANSI C95.1–1992:**IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

It specifies the maximum exposure limit of **1.6 W/kg** as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.

## 5.2 Applicable Measurement Standards

**IEEE 1528–2013:** Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques.

**KDB447498 D01: General RF Exposure Guidance v06:** Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

**KDB648474 D04 Handset SAR v01r03:** SAR Evaluation Considerations for Wireless Handsets.

**KDB941225 D01 SAR test for 3G devices v03r01:** SAR Measurement Procedures for 3G Devices

**KDB941225 D05 SAR for LTE Devices v02r05:** SAR Evaluation Considerations for LTE Devices

**KDB941225 D06 Hotspot Mode SAR v02r01:** SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities

**KDB248227 D01 802.11 Wi-Fi SAR v02r02:** SAR GUIDANCE FOR IEEE 802.11 (Wi-Fi) TRANSMITTERS

**KDB865664 D01SAR measurement 100 MHz to 6 GHz v01r04:** SAR Measurement Requirements for 100 MHz to 6 GHz.

**KDB865664 D02RF Exposure Reporting v01r02:** RF Exposure Compliance Reporting and Documentation Considerations

# 6 Specific Absorption Rate (SAR)

## 6.1 Introduction

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

## 6.2 SAR Definition

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

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

SAR is expressed in units of Watts per kilogram (W/kg)
SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = c\left(\frac{\delta T}{\delta t}\right)$$

Where: C is the specific head capacity, $\delta T$ is the temperature rise and $\delta t$ is the exposure duration, or related to the electrical field in the tissue by

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

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

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

# 7 Tissue Simulating Liquids

## 7.1 Targets for tissue simulating liquid

**Table 7.1: Targets for tissue simulating liquid**

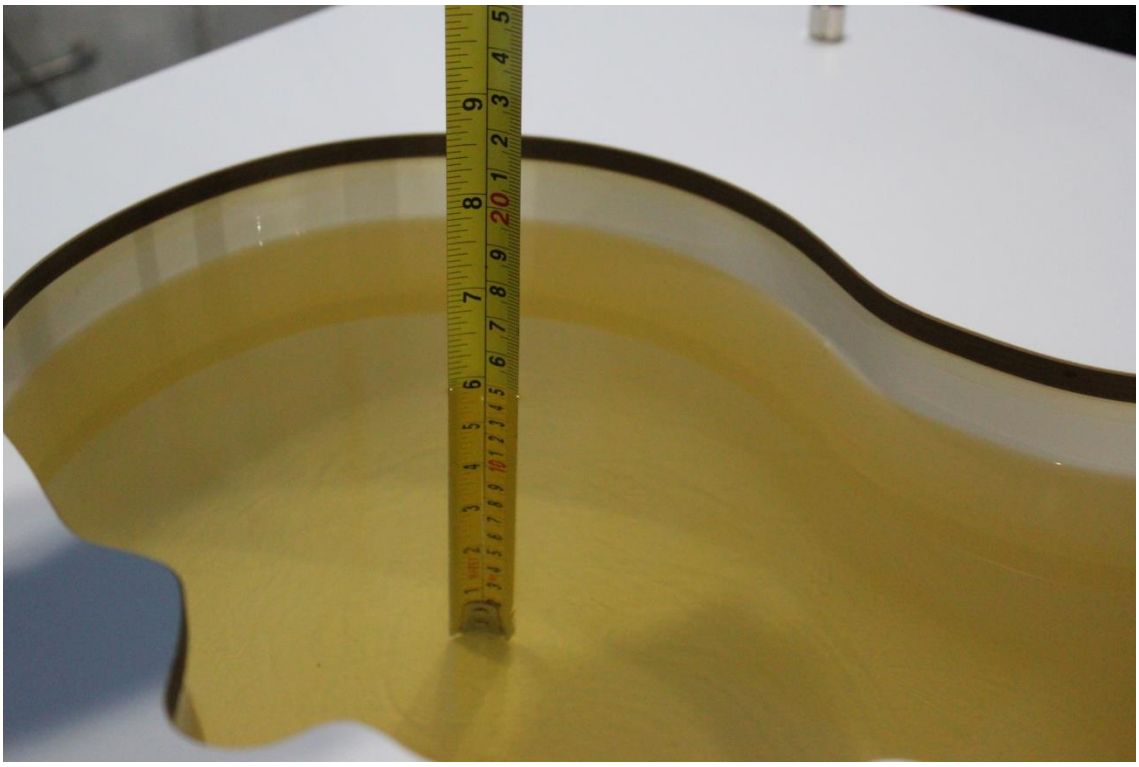
| Frequency(MHz) | Liquid Type | Conductivity(σ) | ±10% Range | Permittivity(ε) | ± 10% Range |
|---|---|---|---|---|---|
| 750 | Head | 0.89 | 0.80～0.98 | 41.94 | 37.75～46.13 |
| 835 | Head | 0.90 | 0.81～0.99 | 41.5 | 37.35～45.65 |
| 1750 | Head | 1.37 | 1.23～1.51 | 40.08 | 36.07～44.09 |
| 1900 | Head | 1.40 | 1.26～1.54 | 40.0 | 36～44 |
| 2450 | Head | 1.80 | 1.62～1.98 | 39.2 | 35.28～43.12 |
| 2600 | Head | 1.96 | 1.76～2.16 | 39.01 | 35.11～42.91 |

## 7.2 Dielectric Performance

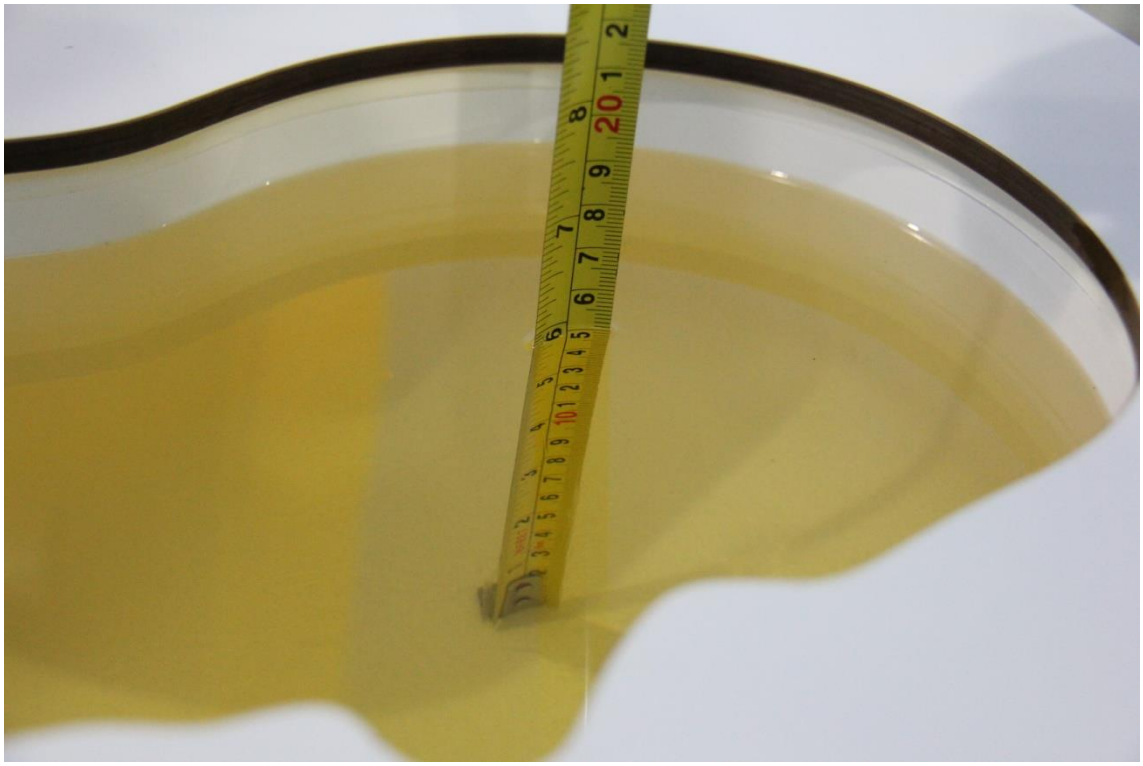
**Table 7.2: Dielectric Performance of Tissue Simulating Liquid**

| Measurement Date (yyyy-mm-dd) | Type | Frequency | Permittivity ε | Drift (%) | Conductivity σ (S/m) | Drift (%) |
|---|---|---|---|---|---|---|
| 2021/5/21 | Head | 750 MHz | 44.44 | 5.96% | 0.8572 | -3.69% |
| 2021/5/21 | Head | 835 MHz | 44.15 | 6.39% | 0.8915 | -0.94% |
| 2021/5/23 | Head | 1750 MHz | 42.31 | 5.56% | 1.396 | 1.90% |
| 2021/5/23 | Head | 1900 MHz | 41.73 | 4.32% | 1.509 | 7.79% |
| 2021/5/23 | Head | 2600 MHz | 40.52 | 3.87% | 2.064 | 5.31% |
| 2021/5/25 | Head | 1900 MHz | 40.63 | 1.58% | 1.493 | 6.64% |
| 2021/5/26 | Head | 1750 MHz | 40.98 | 2.25% | 1.409 | 2.85% |
| 2021/5/26 | Head | 1900 MHz | 40.63 | 1.58% | 1.493 | 6.64% |
| 2021/5/26 | Head | 2450 MHz | 39.79 | 1.51% | 1.924 | 6.89% |
| 2021/5/26 | Head | 2600 MHz | 39.31 | 0.77% | 2.047 | 4.44% |
| 2021/5/28 | Head | 1750 MHz | 40.98 | 2.25% | 1.409 | 2.85% |
| 2021/5/28 | Head | 1900 MHz | 40.63 | 1.58% | 1.493 | 6.64% |
| 2021/5/28 | Head | 2450 MHz | 39.79 | 1.51% | 1.924 | 6.89% |
| 2021/5/28 | Head | 2600 MHz | 39.31 | 0.77% | 2.047 | 4.44% |
| 2021/6/7 | Head | 2450MHz | 40.27 | 2.73% | 1.915 | 6.39 % |

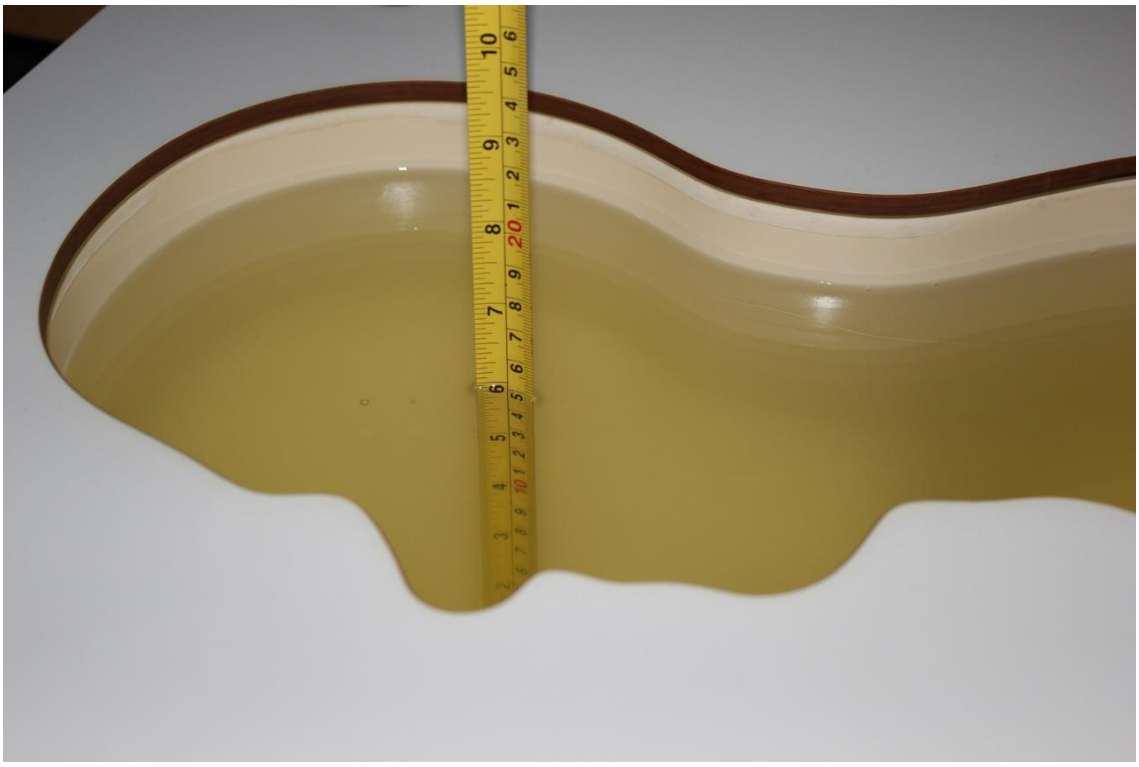
Note: The liquid temperature is 22.0℃



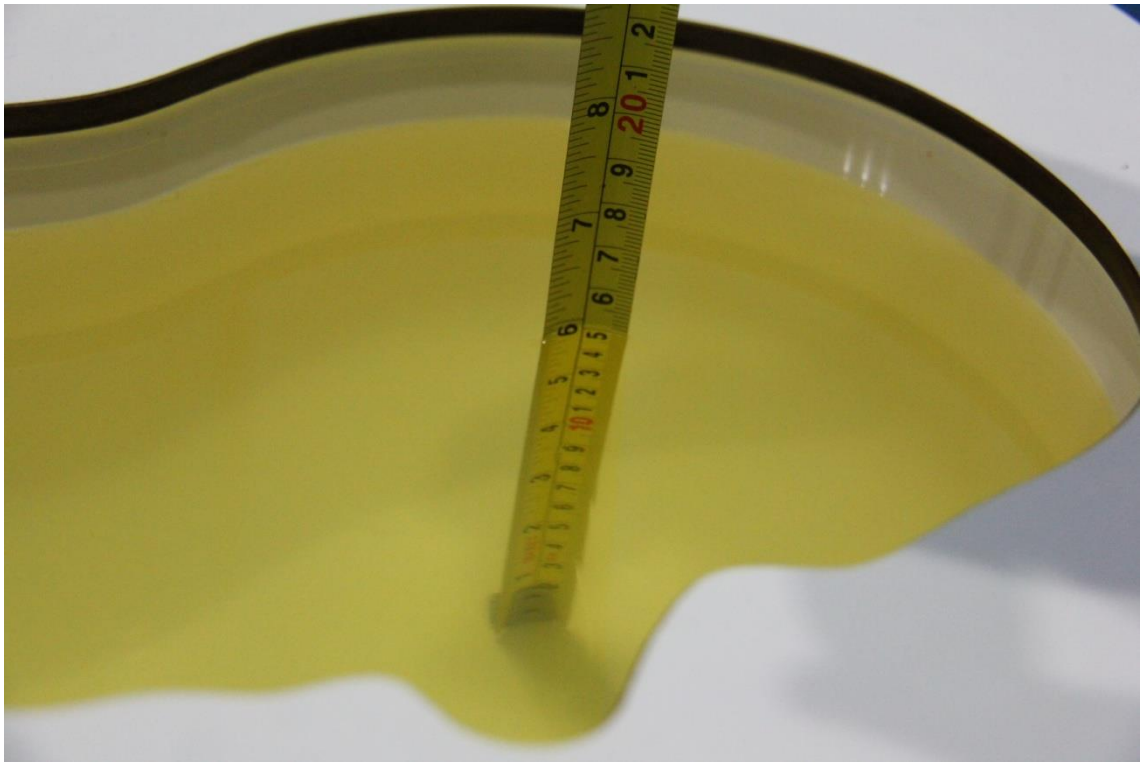
**Picture 7-1 Liquid depth in the Head Phantom (750MHz)**



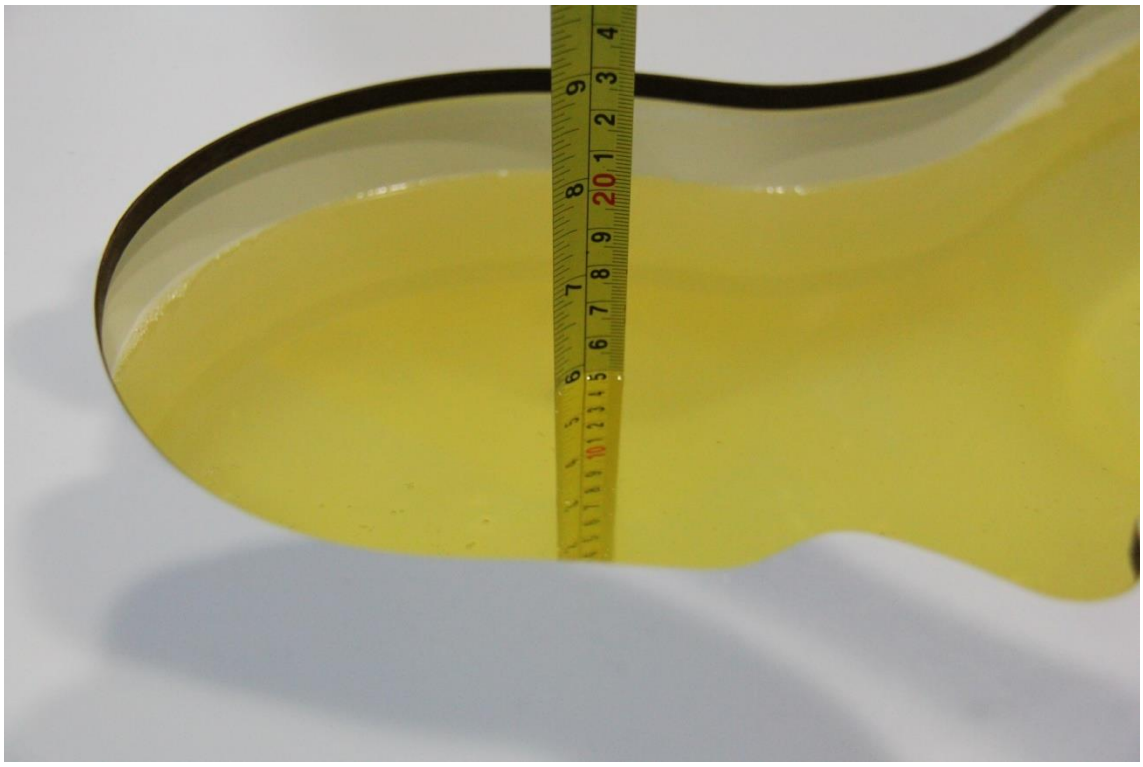
**Picture 7-2 Liquid depth in the Head Phantom (835 MHz)**



**Picture 7-3 Liquid depth in the Head Phantom (1750 MHz)**



**Picture 7-4 Liquid depth in the Head Phantom (1900 MHz)**



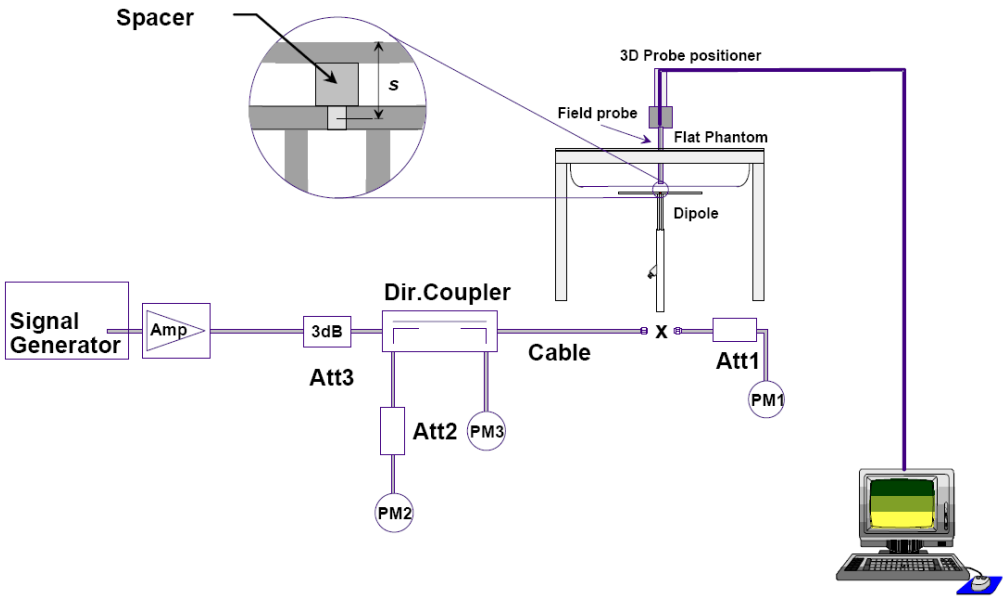
**Picture 7-5 Liquid depth in the Head Phantom (2450MHz)**

**Picture 7-6 Liquid depth in the Head Phantom (2600 MHz)**

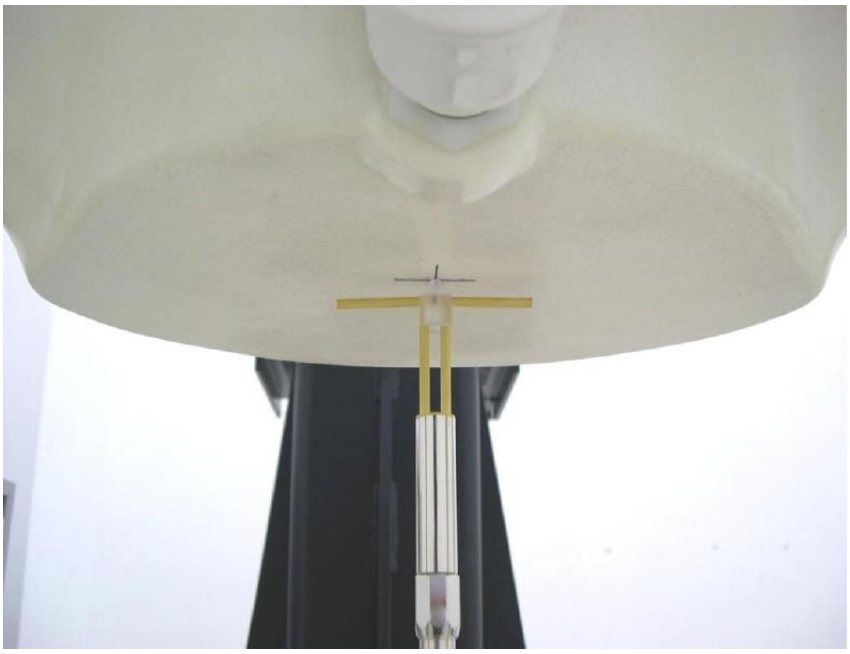
# 8 System verification

## 8.1 System Setup

In the simplified setup for system evaluation, the DUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:




**Picture 8.1 System Setup for System Evaluation**



**Picture 8.2 Photo of Dipole Setup**

## 8.2 System Verification

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device.

The system verification results are required that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR. The details are presented in annex B.

**Table 8.1: System Verification of Head**

| Measurement Date (yyyy-mm-dd) | Frequency | Target value (W/kg) | | Measured value(W/kg) | | Deviation | |
|---|---|---|---|---|---|---|---|
| | | 10 g Average | 1 g Average | 10 g Average | 1 g Average | 10 g Average | 1 g Average |
| 2021/5/21 | 750 MHz | 5.84 | 8.85 | 5.44 | 8.24 | -6.85% | -6.89% |
| 2021/5/21 | 835 MHz | 6.25 | 9.60 | 6.08 | 9.28 | -2.72% | -3.33% |
| 2021/5/23 | 1750 MHz | 19.1 | 36.5 | 20.4 | 38.1 | 7.02% | 4.33% |
| 2021/5/23 | 1900 MHz | 20.6 | 39.6 | 21.6 | 42.0 | 5.05% | 6.06% |
| 2021/5/23 | 2600 MHz | 25.3 | 57.0 | 25.9 | 58.0 | 2.45% | 1.75% |
| 2021/5/25 | 1900 MHz | 20.6 | 39.6 | 21.5 | 41.6 | 4.27% | 5.05% |
| 2021/5/26 | 1750 MHz | 19.1 | 36.5 | 20.5 | 38.3 | 7.43% | 4.88% |
| 2021/5/26 | 1900 MHz | 20.6 | 39.6 | 21.4 | 41.6 | 3.88% | 5.05% |
| 2021/5/26 | 2450 MHz | 24.5 | 52.5 | 25.5 | 55.2 | 4.16% | 5.14% |
| 2021/5/26 | 2600 MHz | 25.3 | 57.0 | 25.5 | 56.8 | 0.87% | -0.35% |
| 2021/5/28 | 1750 MHz | 19.1 | 36.5 | 20.7 | 38.8 | 8.27% | 6.30% |
| 2021/5/28 | 1900 MHz | 20.6 | 39.6 | 21.8 | 42.0 | 6.02% | 6.06% |
| 2021/5/28 | 2450 MHz | 24.5 | 52.5 | 26.0 | 56.0 | 6.29% | 6.67% |
| 2021/5/28 | 2600 MHz | 25.3 | 57.0 | 25.7 | 57.2 | 1.50% | 0.35% |
| 2021/6/7 | 2450 MHz | 24.5 | 52.5 | 23.9 | 50.8 | -2.37% | -3.24% |

# 9 Measurement Procedures

## 9.1 Tests to be performed

In order to determine the highest value of the peak spatial-average SAR of a handset, all device positions, configurations and operational modes shall be tested for each frequency band according to steps 1 to 3 below. A flowchart of the test process is shown in picture 9.1.

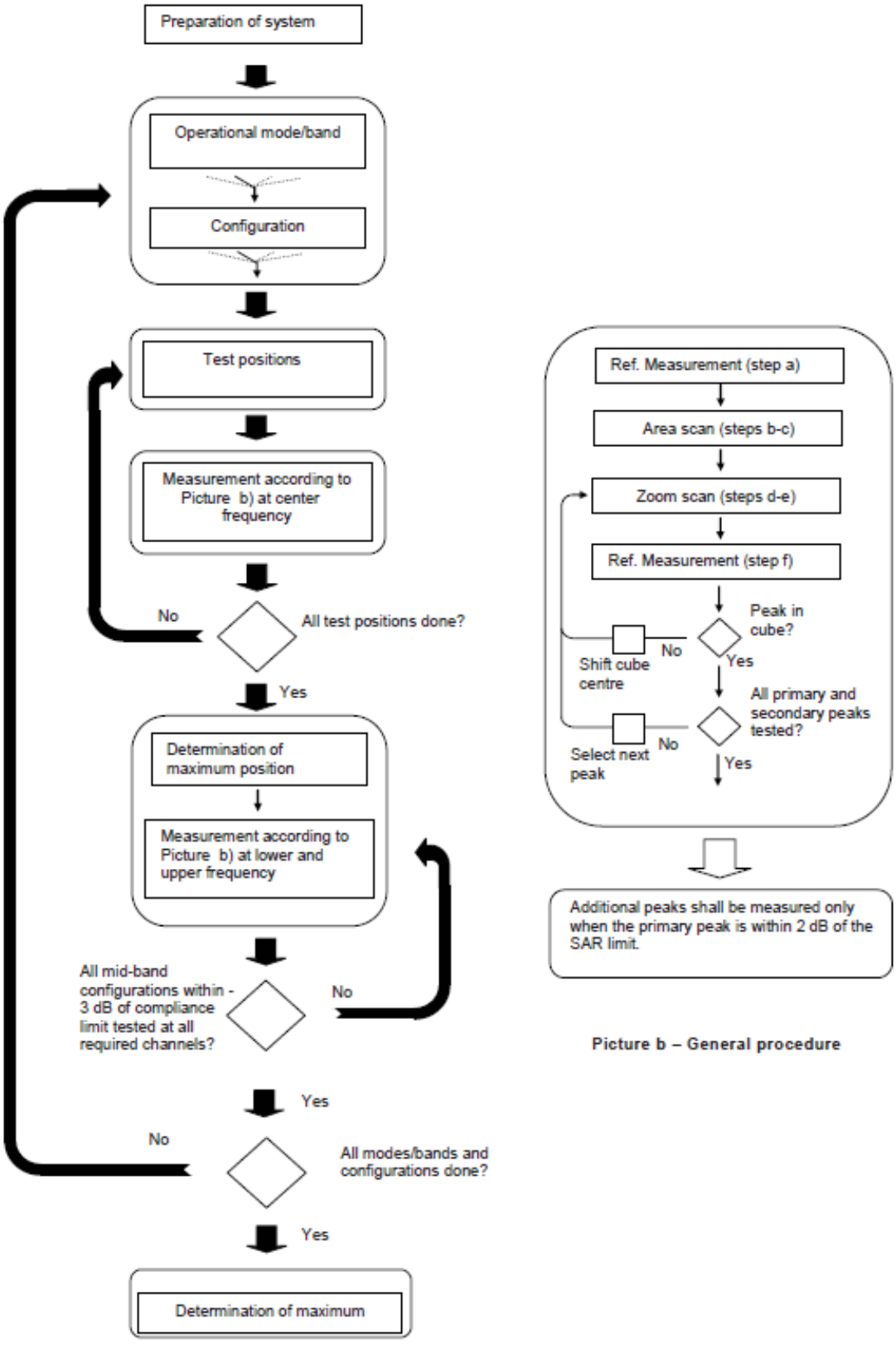
**Step 1**: The tests described in 9.2 shall be performed at the channel that is closest to the centre of the transmit frequency band ( $f_c$ ) for:

a) all device positions (cheek and tilt, for both left and right sides of the SAM phantom, as described in annex D),
b) all configurations for each device position in a), e.g., antenna extended and retracted, and
c) all operational modes, e.g., analogue and digital, for each device position in a) and configuration in b) in each frequency band.

If more than three frequencies need to be tested according to 11.1 (i.e., $N_c > 3$), then all frequencies, configurations and modes shall be tested for all of the above test conditions.

**Step 2**: For the condition providing highest peak spatial-average SAR determined in Step 1,perform all tests described in 9.2 at all other test frequencies, i.e., lowest and highest frequencies. In addition, for all other conditions (device position, configuration and operational mode) where the peak spatial-average SAR value determined in Step 1 is within3 dB of the applicable SAR limit, it is recommended that all other test frequencies shall be tested as well.

**Step 3**: Examine all data to determine the highest value of the peak spatial-average SAR found in Steps 1 to 2.




Picture a – Tests to be performed

Picture b – General procedure

**Picture 9.1Block diagram of the tests to be performed**

## 9.2 General Measurement Procedure

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements and fully documented in SAR reports to qualify for TCB approval. Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013. The results should be documented as part of the system validation records and may be requested to support test results when all the measurement parameters in the following table are not satisfied.

<table>
<tr><td colspan="3"></td><td>≤ 3 GHz</td><td>> 3 GHz</td></tr>
<tr><td colspan="3">Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface</td><td>5 ± 1 mm</td><td>½·δ·ln(2) ± 0.5 mm</td></tr>
<tr><td colspan="3">Maximum probe angle from probe axis to phantom surface normal at the measurement location</td><td>30° ± 1°</td><td>20° ± 1°</td></tr>
<tr><td colspan="3" rowspan="2">Maximum area scan spatial resolution: $\Delta x_{Area}$, $\Delta y_{Area}$</td><td>≤ 2 GHz: ≤ 15 mm<br>2 – 3 GHz: ≤ 12 mm</td><td>3 – 4 GHz: ≤ 12 mm<br>4 – 6 GHz: ≤ 10 mm</td></tr>
<tr><td colspan="2">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.</td></tr>
<tr><td colspan="3">Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$, $\Delta y_{Zoom}$</td><td>≤ 2 GHz: ≤ 8 mm<br>2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*<br>4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm<br>4 – 5 GHz: ≤ 3 mm<br>5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm<br>4 – 5 GHz: ≤ 2.5 mm<br>5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">≤ 1.5·$\Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm<br>4 – 5 GHz: ≥ 25 mm<br>5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">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.<br>* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation 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.</td></tr>
</table>

### 9.3 WCDMA Measurement Procedures for SAR

The following procedures are applicable to WCDMA handsets operating under 3GPP Release99, Release 5 and Release 6. The default test configuration is to measure SAR with an established radio link between the DUT and a communication test set using a 12.2kbps RMC (reference measurement channel) configured in Test Loop Mode 1. SAR is selectively confirmed for other physical channel configurations (DPCCH & $DPDCH_n$), HSDPA and HSPA (HSUPA/HSDPA) modes according to output power, exposure conditions and device operating capabilities. Both uplink and downlink should be configured with the same RMC or AMR, when required. SAR for Release 5 HSDPA and Release 6 HSPA are measured using the applicable FRC (fixed reference channel) and E-DCH reference channel configurations. Maximum output power is verified according to applicable versions of 3GPP TS 34.121 and SAR must be measured according to these maximum output conditions. When Maximum Power Reduction (MPR) is not implemented according to Cubic Metric (CM) requirements for Release 6 HSPA, the following procedures do not apply.

**For Release 5 HSDPA Data Devices:**

| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{hs}$ | CM/dB |
|---|---|---|---|---|---|---|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 |
| 2 | 12/15 | 15/15 | 64 | 12/15 | 24/25 | 1.0 |
| 3 | 15/15 | 8/15 | 64 | 15/8 | 30/15 | 1.5 |
| 4 | 15/15 | 4/15 | 64 | 15/4 | 30/15 | 1.5 |

**For Release 6 HSPA Data Devices**

| Sub-test | $\beta_c$ | $\beta_d$ | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{hs}$ | $\beta_{ec}$ | $\beta_{ed}$ | $\beta_{ed}$ (SF) | $\beta_{ed}$ (codes) | CM (dB) | MPR (dB) | AG Index | E-TFCI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11/15 | 15/15 | 64 | 11/15 | 22/15 | 209/225 | 1039/225 | 4 | 1 | 1.5 | 1.5 | 20 | 75 |
| 2 | 6/15 | 15/15 | 64 | 6/15 | 12/15 | 12/15 | 12/15 | 4 | 1 | 1.5 | 1.5 | 12 | 67 |
| 3 | 15/15 | 9/15 | 64 | 15/9 | 30/15 | 30/15 | $\beta_{ed1}$:47/15<br>$\beta_{ed2}$:47/15 | 4 | 2 | 1.5 | 1.5 | 15 | 92 |
| 4 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 4/15 | 56/75 | 4 | 1 | 1.5 | 1.5 | 17 | 71 |
| 5 | 15/15 | 15/15 | 64 | 15/15 | 24/15 | 30/15 | 134/15 | 4 | 1 | 1.5 | 1.5 | 21 | 81 |

**Rel.8 DC-HSDPA (Cat 24)**

SAR test exclusion for Rel.8 DC-HSDPA must satisfy the SAR test exclusion requirements of Rel.5 HSDPA. SAR test exclusion for DC-HSDPA devices is determined by power measurements according to the H-Set 12, Fixed Reference Channel (FRC) configuration in Table C.8.1.12 of 3GPP TS 34.121-1. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to qualify for SAR test exclusion.

## 9.4 SAR Measurement for LTE

SAR tests for LTE are performed with a base station simulator, Rohde & Rchwarz CMW500. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. All powers were measured with the CMW 500.

It is performed for conducted power and SAR based on the KDB941225 D05.

SAR is evaluated separately according to the following procedures for the different test positions in each exposure condition – head, body, body-worn accessories and other use conditions. The procedures in the following subsections are applied separately to test each LTE frequency band.

1) QPSK with 1 RB allocation

   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 among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

2) QPSK with 50% RB allocation

   The procedures required for 1 RB allocation in 1) are applied to measure the SAR for QPSK with 50% RB allocation.

3) QPSK with 100% RB allocation

   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 in 1) and 2) 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.

**TDD test:**

TDD testing is performed using guidance from FCC KDB 941225 D05 v02r05 and the SAR test guidance provided in April 2013 TCB works hop notes. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05 v02r05. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211.

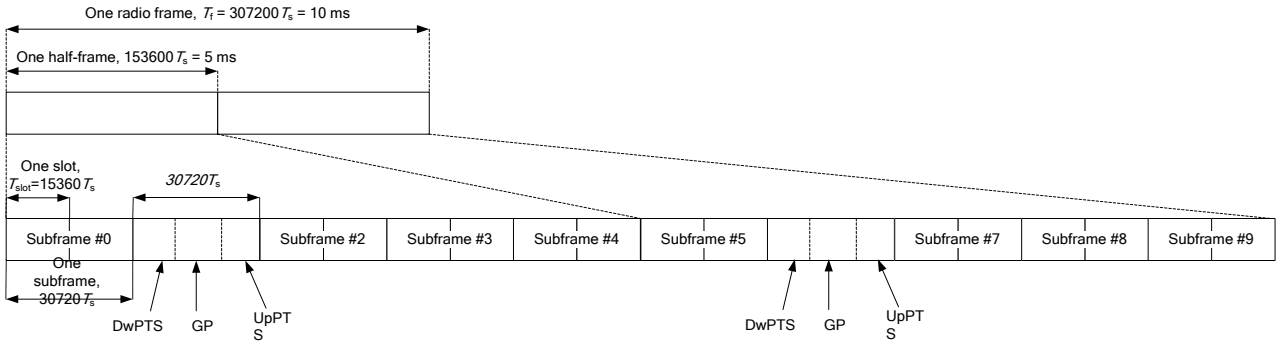



**Figure 9.2: Frame structure type 2 (for 5 ms switch-point periodicity)**

**Table 9.1: 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 | $26336 \cdot T_s$ | | | $7680 \cdot T_s$ | $4384 \cdot T_s$ | $5120 \cdot T_s$ |
| 5 | $6592 \cdot T_s$ | $4384 \cdot T_s$ | $5120 \cdot T_s$ | $20480 \cdot T_s$ | | |
| 6 | $19760 \cdot T_s$ | | | $23040 \cdot T_s$ | | |
| 7 | $21952 \cdot T_s$ | | | $12800 \cdot T_s$ | | |
| 8 | $24144 \cdot T_s$ | | | - | - | - |
| 9 | $13168 \cdot T_s$ | | | - | - | - |

**Table 9.2: 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 |

Duty factor is calculated by:

Duty factor = uplink frame*6+UpPTS*2/one frame length

= (30720.$T_s$ * 6+5120. $T_s$*2)/307200.$T_s$

= 0.633

According to the KDB 447498 D01, SAR should be evaluated at more than 3 frequencies for devices supporting transmit bands wider than 100MHz. Oct.2014 FCC-TCB conference notes (Dec. 2014 rev.) specifies the 5 test channels to use for 3GPP band 41 SAR evaluation.

### 9.5 Bluetooth & Wi-Fi Measurement Procedures for SAR

Normal network operating configurations are not suitable for measuring the SAR of 802.11 transmitters in general. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure that the results are consistent and reliable.

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in a test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters. The test frequencies should correspond to actual channel frequencies defined for domestic use. SAR for devices with switched diversity should be measured with only one antenna transmitting at a time during each SAR measurement, according to a fixed modulation and data rate. The same data pattern should be used for all measurements.

### 9.6 Power Drift

To control the output power stability during the SAR test, DASY5 system calculates the power drift by measuring the E-field at the same location at the beginning and at the end of the measurement for each test position. These drift values can be found in section14 labeled as: (Power Drift [dB]). This ensures that the power drift during one measurement is within 5%.

# 10 Area Scan Based 1-g SAR

## 10.1 Requirement of KDB

According to the KDB447498 D01 v06, when the implementation is based the specific polynomial fit algorithm as presented at the 29th Bioelectromagnetics Society meeting (2007) and the estimated 1-gSAR is ≤ 1.2 W/kg, a zoom scan measurement is not required provided it is also not needed for any other purpose; for example, if the peak SAR location required for simultaneous transmission SAR test exclusion can be determined accurately by the SAR system or manually to discriminate between distinctive peaks and scattered noisy SAR distributions from area scans.

There must not be any warning or alert messages due to various measurement concerns identified by the SAR system; for example, noise in measurements, peaks too close to scan boundary, peaks are too sharp, spatial resolution and uncertainty issues etc. The SAR system verification must also demonstrate that the area scan estimated 1-g SAR is within 3% of the zoom scan 1-g SAR (See Annex B). When all the SAR results for each exposure condition in a frequency band and wireless mode are based on estimated 1-g SAR, the 1-g SAR for the highest SAR configuration must be determined by a zoom scan.

## 10.2 Fast SAR Algorithms

The approach is based on the area scan measurement applying a frequency dependent attenuation parameter. This attenuation parameter was empirically determined by analyzing a large number of phones. The MOTOROLA FAST SAR was developed and validated by the MOTOROLA Research Group in Ft. Lauderdale.

In the initial study, an approximation algorithm based on Linear fit was developed. The accuracy of the algorithm has been demonstrated across a broad frequency range (136-2450 MHz)and for both 1- and 10-g averaged SAR using a sample of 264 SAR measurements from 55wireless handsets. For the sample size studied, the root-mean-squared errors of the algorithm mare 1.2% and 5.8% for 1- and 10-g averaged SAR, respectively. The paper describing the algorithm in detail is expected to be published in August 2004 within the Special Issue of Transactions on MTT.

In the second step, the same research group optimized the fitting algorithm to an Polynomial fit whereby the frequency validity was extended to cover the range 30-6000MHz. Details of this study can be found in the BEMS 2007 Proceedings.

Both algorithms are implemented in DASY software.

# 11 Conducted Output Power

For Main antenna, there are three sets of tune-up power, Receiver on, Receiver off+Hotspot on and Receiver off+Hotspot off.

**Table1: Summery of Receiver detection mechanism**

| Antenna | Receiver on (head scenario) | Receiver off + Hotspot on (Body/other scenario) | Receiver off +Hotspot off (Body/other scenario) |
|---|---|---|---|
| Main antenna | Power Level A1 | Power Level B1 | Power Level C1 |

## 11.1 GSM Measurement result

During the process of testing, the EUT was controlled via R&S Digital Radio Communication tester (CMW500) to ensure the maximum power transmission and proper modulation. This result contains conducted output power for the EUT. In all cases, the measured peak output power should be greater and within 5% than EMI measurement.

**Table 11.1-1: The conducted power measurement results for GSM, GPRS and EGPRS** Level A1/B1/C1

| GSM 850 | Measured Power (dBm) | | | Tune up | calculation | Averaged Power (dBm) | | |
|---|---|---|---|---|---|---|---|---|
| Speech (GMSK) | 251 | 190 | 128 | | | 251 | 190 | 128 |
| 1 Txslot | 32.12 | 32.14 | 32.15 | 33.50 | / | / | / | / |
| GSM 850 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| GPRS (GMSK) | 251 | 190 | 128 | | | 251 | 190 | 128 |
| 1 Txslot | 32.09 | 32.12 | 32.13 | 33.50 | -9.03 | 23.06 | 23.09 | 23.10 |
| **2 Txslots** | **30.61** | **30.63** | **30.64** | **31.50** | **-6.02** | **24.59** | **24.61** | **24.62** |
| 3Txslots | 28.51 | 28.56 | 28.61 | 29.50 | -4.26 | 24.25 | 24.30 | 24.35 |
| 4 Txslots | 26.46 | 26.53 | 26.57 | 27.50 | -3.01 | 23.45 | 23.52 | 23.56 |
| GSM 850 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (GMSK) | 251 | 190 | 128 | | | 251 | 190 | 128 |
| 1 Txslot | 32.04 | 32.06 | 32.07 | 33.50 | -9.03 | 23.01 | 23.03 | 23.04 |
| 2 Txslots | 30.57 | 30.58 | 30.59 | 31.50 | -6.02 | 24.55 | 24.56 | 24.57 |
| 3Txslots | 28.47 | 28.51 | 28.55 | 29.50 | -4.26 | 24.21 | 24.25 | 24.29 |
| 4 Txslots | 26.42 | 26.47 | 26.51 | 27.50 | -3.01 | 23.41 | 23.46 | 23.50 |
| GSM 850 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (8PSK) | 251 | 190 | 128 | | | 251 | 190 | 128 |
| 1 Txslot | 26.23 | 26.22 | 26.33 | 27.50 | -9.03 | 17.20 | 17.19 | 17.30 |
| 2 Txslots | 25.35 | 24.11 | 24.20 | 25.50 | -6.02 | 19.33 | 18.09 | 18.18 |
| 3Txslots | 21.80 | 21.86 | 21.97 | 23.50 | -4.26 | 17.54 | 17.60 | 17.71 |
| 4 Txslots | 19.58 | 19.62 | 19.74 | 21.50 | -3.01 | 16.57 | 16.61 | 16.73 |
| PCS1900 | Measured Power (dBm) | | | Tune up | calculation | Averaged Power (dBm) | | |
| Speech (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 Txslot | 17.38 | 17.41 | 17.25 | 18.00 | / | / | / | / |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| GPRS (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 29.25 | 29.33 | 29.28 | 31.00 | -9.03 | 20.22 | 20.30 | 20.25 |
| **2 Txslots** | **27.48** | **27.36** | **27.20** | **29.00** | **-6.02** | **21.46** | **21.34** | **21.18** |
| 3Txslots | 25.54 | 25.38 | 25.18 | 27.00 | -4.26 | 21.28 | 21.12 | 20.92 |
| 4 Txslots | 23.56 | 23.39 | 23.14 | 25.00 | -3.01 | 20.55 | 20.38 | 20.13 |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (GMSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 29.24 | 29.33 | 29.26 | 31.00 | -9.03 | 20.21 | 20.30 | 20.23 |
| 2 Txslots | 27.47 | 27.35 | 27.19 | 29.00 | -6.02 | 21.45 | 21.33 | 21.17 |
| 3Txslots | 25.54 | 25.37 | 25.17 | 27.00 | -4.26 | 21.28 | 21.11 | 20.91 |
| **4 Txslots** | 23.55 | 23.38 | 23.13 | 25.00 | -3.01 | 20.54 | 20.37 | 20.12 |
| PCS1900 | Measured Power (dBm) | | | | calculation | Averaged Power (dBm) | | |
| EGPRS (8PSK) | 810 | 661 | 512 | | | 810 | 661 | 512 |
| 1 Txslot | 25.09 | 25.08 | 25.07 | 26.50 | -9.03 | 16.06 | 16.05 | 16.04 |
| 2 Txslots | 23.68 | 23.01 | 22.96 | 24.50 | -6.02 | 17.66 | 16.99 | 16.94 |
| 3Txslots | 20.75 | 20.82 | 20.76 | 22.50 | -4.26 | 16.49 | 16.56 | 16.50 |
| 4 Txslots | 18.58 | 18.67 | 18.59 | 20.50 | -3.01 | 15.57 | 15.66 | 15.58 |

NOTES:

1) Division Factors

To average the power, the division factor is as follows:

1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB

2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB

3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB

4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB

**According to the conducted power as above, the body measurements are performed with 2Txslots for GSM850 and GSM1900.**

## 11.2 WCDMA Measurement result

**Table 11.2-1: The conducted Power for WCDMA-** Power Level A1/B1/C1

| Item | band | FDDV result | | | |
|---|---|---|---|---|---|
| | ARFCN | 4233 (846.6MHz) | 4182 (836.4MHz) | 4132 (826.4MHz) | Tune up |
| WCDMA | \ | 22.95 | 22.93 | 22.82 | 24 |
| HSUPA | 1 | 19.39 | 19.36 | 19.36 | 21 |
| | 2 | 19.41 | 19.36 | 19.38 | 21 |
| | 3 | 20.4 | 20.36 | 20.37 | 22 |
| | 4 | 18.92 | 18.91 | 18.90 | 20.5 |
| | 5 | 20.39 | 20.36 | 20.35 | 22 |
| HSPA+ | | 21 | 20.89 | 20.88 | 22.5 |
| DC-HSDPA | 1 | 21.37 | 21.35 | 21.36 | 23 |
| | 2 | 21.35 | 21.36 | 21.30 | 23 |
| | 3 | 20.85 | 20.88 | 20.86 | 22.5 |
| | 4 | 20.84 | 20.86 | 20.85 | 22.5 |

**Table 11.2-2: The conducted Power for WCDMA-** Power Level A1

| Item | band | FDDIV result | | | |
|---|---|---|---|---|---|
| | ARFCN | 1513 (1752.6MHz) | 1412(1732.4MHz) | 1312 (1712.4MHz) | Tune up |
| WCDMA | \ | 23.85 | 23.81 | 23.89 | 25 |
| HSUPA | 1 | 21.4 | 21.35 | 21.42 | 22 |
| | 2 | 21.1 | 21.11 | 21.12 | 22 |
| | 3 | 22.08 | 22.09 | 22.10 | 23 |
| | 4 | 20.8 | 20.82 | 20.83 | 21.5 |
| | 5 | 22.2 | 22.19 | 22.22 | 23 |
| HSPA+ | | 22.88 | 22.85 | 22.80 | 23 |
| DC-HSDPA | 1 | 23.18 | 23.20 | 23.22 | 23.5 |
| | 2 | 23.2 | 23.21 | 23.24 | 23.5 |
| | 3 | 22.75 | 22.76 | 22.76 | 23.5 |
| | 4 | 22.74 | 22.77 | 22.76 | 23.5 |
| Item | band | FDDII result | | | |
| | ARFCN | 9538 (1907.6MHz) | 9400 (1880MHz) | 9262 (1852.4MHz) | Tune up |
| WCDMA | \ | 24.02 | 24.03 | 24.10 | 25 |
| HSUPA | 1 | 21.3 | 21.46 | 21.35 | 22 |
| | 2 | 21.28 | 21.24 | 21.36 | 22 |
| | 3 | 22.26 | 22.23 | 22.33 | 23 |
| | 4 | 20.76 | 20.75 | 20.80 | 21.5 |
| | 5 | 22.16 | 22.18 | 22.23 | 23 |
| HSPA+ | | 22.8 | 22.82 | 22.86 | 23 |
| DC-HSDPA | 1 | 23.28 | 23.30 | 23.33 | 23.5 |
| | 2 | 23.26 | 23.31 | 23.36 | 23.5 |
| | 3 | 22.8 | 22.82 | 22.84 | 23.5 |
| | 4 | 22.79 | 22.81 | 22.82 | 23.5 |

**Table 11.2-3: The conducted Power for WCDMA-** Power Level B1/C1

| Item | band | FDDIV result- Power Level B1 | | | |
|---|---|---|---|---|---|
| | ARFCN | 1513 (1752.6MHz) | 1412(1732.4MHz) | 1312 (1712.4MHz) | Tune up |
| WCDMA | \ | 19.88 | 19.90 | 19.88 | 21 |
| HSUPA | 1 | 17.63 | 17.55 | 17.65 | 18 |
| | 2 | 17.33 | 17.26 | 17.32 | 18 |
| | 3 | 18.25 | 18.26 | 18.24 | 19 |
| | 4 | 16.88 | 16.90 | 16.87 | 17.5 |
| | 5 | 18.24 | 18.25 | 18.25 | 19 |
| HSPA+ | | 18.9 | 18.88 | 18.83 | 19 |
| DC-HSDPA | 1 | 19.25 | 19.28 | 19.26 | 19.5 |
| | 2 | 19.24 | 19.26 | 19.25 | 19.5 |
| | 3 | 18.75 | 18.76 | 18.74 | 19.5 |
| | 4 | 18.76 | 18.75 | 18.73 | 19.5 |
| Item | band | FDDII result- Power Level B1/C1 | | | |
| | ARFCN | 9538 (1907.6MHz) | 9400 (1880MHz) | 9262 (1852.4MHz) | Tune up |
| WCDMA | \ | 22.91 | 22.95 | 22.93 | 24 |
| HSUPA | 1 | 20.29 | 20.71 | 20.35 | 22 |
| | 2 | 20.26 | 20.22 | 20.33 | 22 |
| | 3 | 21.24 | 21.25 | 21.29 | 23 |
| | 4 | 19.72 | 19.73 | 19.77 | 21.5 |
| | 5 | 21.16 | 21.19 | 21.23 | 23 |
| HSPA+ | | 21.79 | 21.80 | 21.87 | 23 |
| DC-HSDPA | 1 | 22.24 | 22.32 | 22.38 | 23.5 |
| | 2 | 22.26 | 22.33 | 22.40 | 23.5 |
| | 3 | 21.79 | 21.82 | 21.85 | 23.5 |
| | 4 | 21.8 | 21.81 | 21.84 | 23.5 |

**Table 11.2-4: The conducted Power for WCDMA-** Power Level C1

| Item | band | FDDIV result | | | |
|---|---|---|---|---|---|
| | ARFCN | 1513 (1752.6MHz) | 1412(1732.4MHz) | 1312 (1712.4MHz) | Tune up |
| WCDMA | \ | 22.90 | 22.91 | 22.89 | 23 |
| HSUPA | 1 | 20.43 | 20.35 | 20.44 | 21.5 |
| | 2 | 20.09 | 20.11 | 20.11 | 21.5 |
| | 3 | 21.05 | 21.08 | 21.06 | 21 |
| | 4 | 19.77 | 19.79 | 19.78 | 21 |
| | 5 | 21.24 | 21.23 | 21.19 | 21.5 |
| HSPA+ | | 21.91 | 21.84 | 21.81 | 22 |
| DC-HSDPA | 1 | 22.21 | 22.25 | 22.25 | 22.5 |
| | 2 | 22.23 | 22.26 | 22.26 | 22.5 |
| | 3 | 21.76 | 21.78 | 21.77 | 22 |
| | 4 | 21.75 | 21.77 | 21.76 | 22 |

## 11.3 LTE Measurement result

**Table 11.3-1: Maximum Power Reduction (MPR) for LTE**

| Modulation | Channel bandwidth / Transmission bandwidth configuration [RB] | | | | | | MPR (dB) |
|---|---|---|---|---|---|---|---|
| | 1.4 MHz | 3 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 |

**Table 11.3-2: The tune up for LTE**

| Band | Tune up |
|---|---|
| LTE Band 12 Power Level A1/B1/C1 | 25.5 |
| LTE Band 13 Power Level A1/B1/C1 | 25.5 |
| LTE Band 25 Power Level A1 | 25 |
| LTE Band 25 Power Level B1 | 23 |
| LTE Band 25 Power Level C1 | 24 |
| LTE Band 26 Power Level A1/B1/C1 | 25.5 |
| LTE Band 41 Power Level A1/C1 | 24 |
| LTE Band 41 Power Level B1 | 23 |
| LTE Band 41(HPUE) Power Level A1/C1 | 27 |
| LTE Band 41(HPUE) Power Level B1 | 25 |
| LTE Band 66 Power Level A1 | 25 |
| LTE Band 66 Power Level B1 | 20 |
| LTE Band 66 Power Level C1 | 23 |
| LTE Band 71 Power Level A1/B1/C1 | 25.5 |

Power Level A1/B1/C1

| Band 12 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation<br>RB offset (Start RB) | Frequency (MHz) | QPSK<br>Actual output power (dBm) | 16QAM<br>Actual output power (dBm) | 64QAM<br>Actual output power (dBm) |
| 1.4MHz | 1RB-High (5) | 715.3 | 24.36 | 23.60 | 22.56 |
| | | 707.5 | 24.41 | 23.60 | 22.57 |
| | | 699.7 | 24.50 | 23.61 | 22.58 |
| | 1RB-Middle (3) | 715.3 | 24.46 | 23.66 | 22.54 |
| | | 707.5 | 24.43 | 23.67 | 22.64 |
| | | 699.7 | 24.50 | 23.80 | 22.67 |
| | 1RB-Low (0) | 715.3 | 24.35 | 23.52 | 22.52 |
| | | 707.5 | 24.41 | 23.62 | 22.58 |
| | | 699.7 | 24.45 | 23.75 | 22.66 |
| | 3RB-High (3) | 715.3 | 24.44 | 23.34 | 22.50 |
| | | 707.5 | 24.47 | 23.50 | 22.57 |
| | | 699.7 | 24.56 | 23.59 | 22.69 |
| | 3RB-Middle (1) | 715.3 | 24.51 | 23.43 | 22.61 |
| | | 707.5 | 24.52 | 23.56 | 22.64 |
| | | 699.7 | 24.58 | 23.63 | 22.69 |
| | 3RB-Low (0) | 715.3 | 24.45 | 23.43 | 22.51 |
| | | 707.5 | 24.44 | 23.42 | 22.57 |
| | | 699.7 | 24.56 | 23.56 | 22.65 |
| | 6RB (0) | 715.3 | 23.47 | 22.55 | 21.46 |
| | | 707.5 | 23.49 | 22.61 | 21.51 |
| | | 699.7 | 23.50 | 22.68 | 21.56 |
| 3MHz | 1RB-High (14) | 714.5 | 24.41 | 23.60 | 22.55 |
| | | 707.5 | 24.46 | 23.70 | 22.56 |
| | | 700.5 | 23.98 | 23.84 | 22.66 |
| | 1RB-Middle (7) | 714.5 | 24.60 | 23.87 | 22.73 |
| | | 707.5 | 24.61 | 23.82 | 22.77 |
| | | 700.5 | 24.67 | 23.87 | 22.77 |
| | 1RB-Low (0) | 714.5 | 24.45 | 23.70 | 22.66 |
| | | 707.5 | 24.50 | 23.74 | 22.64 |
| | | 700.5 | 24.55 | 23.71 | 22.77 |
| | 8RB-High (7) | 714.5 | 23.40 | 22.49 | 21.51 |
| | | 707.5 | 23.47 | 22.55 | 21.54 |
| | | 700.5 | 23.54 | 22.69 | 21.68 |
| | 8RB-Middle (4) | 714.5 | 23.48 | 22.58 | 22.00 |
| | | 707.5 | 23.49 | 22.60 | 21.60 |
| | | 700.5 | 23.59 | 22.73 | 21.65 |
| | 8RB-Low (0) | 714.5 | 23.44 | 22.55 | 21.52 |
| | | 707.5 | 23.51 | 22.59 | 21.57 |
| | | 700.5 | 23.53 | 22.66 | 21.88 |
| | 15RB (0) | 714.5 | 23.46 | 22.47 | 21.47 |
| | | 707.5 | 23.53 | 22.52 | 21.53 |
| | | 700.5 | 23.57 | 22.60 | 21.59 |

| | | | | | |
|---|---|---|---|---|---|
| 5MHz | 1RB-High (24) | 713.5 | 24.36 | 23.64 | 22.55 |
| | | 707.5 | 24.47 | 23.70 | 22.58 |
| | | 701.5 | 24.48 | 23.70 | 22.63 |
| | 1RB-Middle (12) | 713.5 | 24.66 | 23.85 | 22.74 |
| | | 707.5 | 24.57 | 23.81 | 22.78 |
| | | 701.5 | 24.63 | 23.93 | 22.87 |
| | 1RB-Low (0) | 713.5 | 24.42 | 23.64 | 22.59 |
| | | 707.5 | 24.44 | 23.62 | 22.62 |
| | | 701.5 | 24.49 | 23.77 | 22.62 |
| | 12RB-High (13) | 713.5 | 23.45 | 22.44 | 21.46 |
| | | 707.5 | 23.46 | 22.50 | 21.52 |
| | | 701.5 | 23.59 | 22.61 | 21.63 |
| | 12RB-Middle (6) | 713.5 | 23.52 | 22.56 | 21.57 |
| | | 707.5 | 23.53 | 22.59 | 21.58 |
| | | 701.5 | 23.63 | 22.62 | 21.62 |
| | 12RB-Low (0) | 713.5 | 23.52 | 22.48 | 21.52 |
| | | 707.5 | 23.57 | 22.58 | 21.63 |
| | | 701.5 | 23.52 | 22.55 | 21.58 |
| | 25RB (0) | 713.5 | 23.49 | 22.48 | 21.51 |
| | | 707.5 | 23.51 | 22.53 | 21.56 |
| | | 701.5 | 23.57 | 22.61 | 21.60 |
| 10MHz | 1RB-High (49) | 711 | 24.47 | 23.55 | 22.57 |
| | | 707.5 | 24.48 | 23.66 | 22.62 |
| | | 704 | 24.48 | 23.67 | 22.63 |
| | 1RB-Middle (24) | 711 | 24.62 | 23.81 | 22.76 |
| | | 707.5 | 24.62 | 23.88 | 22.76 |
| | | 704 | 24.70 | 23.90 | 22.86 |
| | 1RB-Low (0) | 711 | 24.57 | 23.85 | 22.67 |
| | | 707.5 | 24.59 | 23.86 | 22.68 |
| | | 704 | 24.58 | 23.85 | 22.67 |
| | 25RB-High (25) | 711 | 23.58 | 22.58 | 21.57 |
| | | 707.5 | 23.55 | 22.56 | 21.58 |
| | | 704 | 23.55 | 22.60 | 21.58 |
| | 25RB-Middle (12) | 711 | 23.63 | 22.65 | 21.63 |
| | | 707.5 | 23.62 | 22.62 | 21.64 |
| | | 704 | 23.62 | 22.65 | 21.65 |
| | 25RB-Low (0) | 711 | 23.74 | 22.72 | 21.72 |
| | | 707.5 | 23.55 | 22.58 | 21.60 |
| | | 704 | 23.53 | 22.57 | 21.54 |
| | 50RB (0) | 711 | 23.67 | 22.68 | 21.66 |
| | | 707.5 | 23.55 | 22.58 | 21.58 |
| | | 704 | 23.55 | 22.57 | 21.56 |

Power Level A1/B1/C1

| Band 13 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation<br>RB offset (Start RB) | Frequency (MHz) | QPSK<br>Actual output power (dBm) | 16QAM<br>Actual output power (dBm) | 64QAM<br>Actual output power (dBm) |
| 5MHz | 1RB-High (24) | 784.5 | 24.07 | 23.32 | 22.24 |
| | | 782 | 24.11 | 23.32 | 22.29 |
| | | 779.5 | 24.07 | 23.31 | 22.23 |
| | 1RB-Middle (12) | 784.5 | 24.30 | 23.60 | 22.55 |
| | | 782 | 24.30 | 23.46 | 22.39 |
| | | 779.5 | 24.25 | 23.45 | 22.37 |
| | 1RB-Low (0) | 784.5 | 24.12 | 23.36 | 22.32 |
| | | 782 | 24.13 | 23.31 | 22.31 |
| | | 779.5 | 24.12 | 23.25 | 22.21 |
| | 12RB-High (13) | 784.5 | 23.17 | 22.18 | 21.21 |
| | | 782 | 23.19 | 22.25 | 21.26 |
| | | 779.5 | 23.19 | 22.25 | 21.24 |
| | 12RB-Middle (6) | 784.5 | 23.25 | 22.24 | 21.28 |
| | | 782 | 23.21 | 22.27 | 21.27 |
| | | 779.5 | 23.19 | 22.23 | 21.24 |
| | 12RB-Low (0) | 784.5 | 23.23 | 22.24 | 21.26 |
| | | 782 | 23.18 | 22.21 | 21.25 |
| | | 779.5 | 23.08 | 22.11 | 21.14 |
| | 25RB (0) | 784.5 | 23.19 | 22.24 | 21.24 |
| | | 782 | 23.19 | 22.22 | 21.23 |
| | | 779.5 | 23.16 | 22.21 | 21.19 |
| 10MHz | 1RB-High | 782 | 24.10 | 23.38 | 22.25 |
| | 1RB-Middle | 782 | 24.25 | 23.49 | 22.41 |
| | 1RB-Low (0) | 782 | 24.19 | 23.42 | 22.35 |
| | 25RB-High | 782 | 23.21 | 22.26 | 21.27 |
| | 25RB-Middle | 782 | 23.24 | 22.26 | 21.28 |
| | 25RB-Low | 782 | 23.18 | 22.22 | 21.21 |
| | 50RB (0) | 782 | 23.19 | 22.24 | 21.22 |

Power Level A1

| Band 25 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 1914.3 | 24.06 | 23.26 | 22.13 |
| | | 1882.5 | 24.05 | 23.22 | 22.17 |
| | | 1850.7 | 24.07 | 23.38 | 22.21 |
| | 1RB-Middle (3) | 1914.3 | 24.13 | 23.46 | 22.25 |
| | | 1882.5 | 24.15 | 23.31 | 22.25 |
| | | 1850.7 | 24.18 | 23.49 | 22.29 |
| | 1RB-Low (0) | 1914.3 | 24.06 | 23.25 | 22.18 |
| | | 1882.5 | 24.05 | 23.37 | 22.13 |
| | | 1850.7 | 24.05 | 23.25 | 22.24 |
| | 3RB-High (3) | 1914.3 | 24.19 | 23.10 | 22.19 |
| | | 1882.5 | 24.16 | 23.04 | 22.15 |
| | | 1850.7 | 24.20 | 23.18 | 22.24 |
| | 3RB-Middle (1) | 1914.3 | 24.24 | 23.15 | 22.25 |
| | | 1882.5 | 24.18 | 23.14 | 22.20 |
| | | 1850.7 | 24.20 | 23.12 | 22.25 |
| | 3RB-Low (0) | 1914.3 | 24.19 | 23.15 | 22.17 |
| | | 1882.5 | 24.11 | 23.10 | 22.23 |
| | | 1850.7 | 24.16 | 23.17 | 22.21 |
| | 6RB (0) | 1914.3 | 23.21 | 22.24 | 21.17 |
| | | 1882.5 | 23.14 | 22.19 | 21.08 |
| | | 1850.7 | 23.19 | 22.26 | 21.15 |
| 3MHz | 1RB-High (14) | 1913.5 | 24.19 | 23.36 | 22.28 |
| | | 1882.5 | 24.12 | 23.31 | 22.20 |
| | | 1851.5 | 24.17 | 23.50 | 22.30 |
| | 1RB-Middle (7) | 1913.5 | 24.32 | 23.59 | 22.32 |
| | | 1882.5 | 24.30 | 23.35 | 22.43 |
| | | 1851.5 | 24.28 | 23.53 | 22.40 |
| | 1RB-Low (0) | 1913.5 | 24.17 | 23.42 | 22.25 |
| | | 1882.5 | 24.13 | 23.34 | 22.21 |
| | | 1851.5 | 24.18 | 23.41 | 22.30 |
| | 8RB-High (7) | 1913.5 | 23.20 | 22.20 | 21.18 |
| | | 1882.5 | 23.14 | 22.16 | 21.14 |
| | | 1851.5 | 23.16 | 22.20 | 21.18 |
| | 8RB-Middle (4) | 1913.5 | 23.21 | 22.23 | 21.20 |
| | | 1882.5 | 23.17 | 22.21 | 21.15 |
| | | 1851.5 | 23.20 | 22.24 | 21.23 |
| | 8RB-Low (0) | 1913.5 | 23.21 | 22.22 | 21.19 |
| | | 1882.5 | 23.14 | 22.21 | 21.15 |
| | | 1851.5 | 23.17 | 22.23 | 21.19 |
| | 15RB (0) | 1913.5 | 23.20 | 22.18 | 21.14 |

| | | | | | |
|---|---|---|---|---|---|
| | | 1882.5 | 23.14 | 22.13 | 21.10 |
| | | 1851.5 | 23.13 | 22.16 | 21.11 |
| 5MHz | 1RB-High (24) | 1912.5 | 24.18 | 23.43 | 22.27 |
| | | 1882.5 | 24.14 | 23.34 | 22.24 |
| | | 1852.5 | 24.15 | 23.36 | 22.31 |
| | 1RB-Middle (12) | 1912.5 | 24.34 | 23.56 | 22.44 |
| | | 1882.5 | 24.32 | 23.56 | 22.43 |
| | | 1852.5 | 24.39 | 23.49 | 22.42 |
| | 1RB-Low (0) | 1912.5 | 24.16 | 23.37 | 22.26 |
| | | 1882.5 | 24.14 | 23.43 | 22.34 |
| | | 1852.5 | 24.18 | 23.47 | 22.36 |
| | 12RB-High (13) | 1912.5 | 23.16 | 22.21 | 21.26 |
| | | 1882.5 | 23.18 | 22.17 | 21.18 |
| | | 1852.5 | 23.21 | 22.22 | 21.20 |
| | 12RB-Middle (6) | 1912.5 | 23.29 | 22.26 | 21.36 |
| | | 1882.5 | 23.22 | 22.25 | 21.21 |
| | | 1852.5 | 23.28 | 22.27 | 21.26 |
| | 12RB-Low (0) | 1912.5 | 23.28 | 22.28 | 21.32 |
| | | 1882.5 | 23.20 | 22.17 | 21.22 |
| | | 1852.5 | 23.24 | 22.26 | 21.23 |
| | 25RB (0) | 1912.5 | 23.28 | 22.25 | 21.31 |
| | | 1882.5 | 23.21 | 22.20 | 21.20 |
| | | 1852.5 | 23.23 | 22.26 | 21.21 |
| 10MHz | 1RB-High (49) | 1910 | 24.16 | 23.34 | 22.21 |
| | | 1882.5 | 24.07 | 23.31 | 22.30 |
| | | 1855 | 24.15 | 23.42 | 22.46 |
| | 1RB-Middle (24) | 1910 | 24.25 | 23.44 | 22.27 |
| | | 1882.5 | 24.19 | 23.46 | 22.39 |
| | | 1855 | 24.25 | 23.53 | 22.43 |
| | 1RB-Low (0) | 1910 | 24.15 | 23.32 | 22.25 |
| | | 1882.5 | 24.12 | 23.42 | 22.32 |
| | | 1855 | 24.18 | 23.47 | 22.40 |
| | 25RB-High (25) | 1910 | 23.12 | 22.53 | 21.12 |
| | | 1882.5 | 23.15 | 22.18 | 21.16 |
| | | 1855 | 23.22 | 22.24 | 21.21 |
| | 25RB-Middle (12) | 1910 | 23.21 | 22.21 | 21.22 |
| | | 1882.5 | 23.17 | 22.21 | 21.17 |
| | | 1855 | 23.22 | 22.25 | 21.23 |
| | 25RB-Low (0) | 1910 | 23.29 | 22.25 | 21.26 |
| | | 1882.5 | 23.18 | 22.21 | 21.20 |
| | | 1855 | 23.24 | 22.28 | 21.25 |
| | 50RB (0) | 1910 | 23.22 | 22.19 | 21.21 |
| | | 1882.5 | 23.18 | 22.19 | 21.18 |
| | | 1855 | 23.27 | 22.27 | 21.24 |
| 15MHz | 1RB-High (74) | 1907.5 | 24.12 | 23.31 | 22.23 |
| | | 1882.5 | 24.09 | 23.30 | 22.29 |
| | | 1857.5 | 24.15 | 23.44 | 22.42 |
| | 1RB-Middle | 1907.5 | 24.13 | 23.39 | 22.24 |

| | | | | | |
|---|---|---|---|---|---|
| | (37) | 1882.5 | 24.11 | 23.38 | 22.28 |
| | | 1857.5 | 24.18 | 23.50 | 22.43 |
| | 1RB-Low (0) | 1907.5 | 24.16 | 23.48 | 22.31 |
| | | 1882.5 | 24.13 | 23.49 | 22.64 |
| | | 1857.5 | 24.16 | 23.48 | 22.38 |
| | 36RB-High (38) | 1907.5 | 23.18 | 22.14 | 21.17 |
| | | 1882.5 | 23.56 | 22.17 | 21.14 |
| | | 1857.5 | 23.24 | 22.20 | 21.22 |
| | 36RB-Middle (19) | 1907.5 | 23.26 | 22.21 | 21.26 |
| | | 1882.5 | 23.19 | 22.20 | 21.21 |
| | | 1857.5 | 23.22 | 22.23 | 21.21 |
| | 36RB-Low (0) | 1907.5 | 23.22 | 22.24 | 21.24 |
| | | 1882.5 | 23.18 | 22.18 | 21.19 |
| | | 1857.5 | 23.24 | 22.24 | 21.24 |
| | 75RB (0) | 1907.5 | 23.20 | 22.18 | 21.19 |
| | | 1882.5 | 23.16 | 22.16 | 21.15 |
| | | 1857.5 | 23.22 | 22.24 | 21.46 |
| 20MHz | 1RB-High (99) | 1905 | 24.04 | 23.16 | 22.14 |
| | | 1882.5 | 24.01 | 23.22 | 22.13 |
| | | 1860 | 24.03 | 23.42 | 22.29 |
| | 1RB-Middle (50) | 1905 | 24.09 | 23.43 | 22.28 |
| | | 1882.5 | 24.05 | 23.38 | 22.24 |
| | | 1860 | 24.10 | 23.38 | 22.40 |
| | 1RB-Low (0) | 1905 | 24.09 | 23.44 | 22.31 |
| | | 1882.5 | 24.01 | 23.29 | 22.24 |
| | | 1860 | 24.04 | 23.33 | 22.23 |
| | 50RB-High (50) | 1905 | 23.00 | 21.92 | 20.94 |
| | | 1882.5 | 23.02 | 22.03 | 21.01 |
| | | 1860 | 23.11 | 22.12 | 21.10 |
| | 50RB-Middle (25) | 1905 | 23.14 | 22.16 | 21.13 |
| | | 1882.5 | 23.09 | 22.10 | 21.09 |
| | | 1860 | 23.15 | 22.15 | 21.13 |
| | 50RB-Low (0) | 1905 | 23.13 | 22.17 | 21.14 |
| | | 1882.5 | 23.02 | 22.06 | 21.04 |
| | | 1860 | 23.12 | 22.13 | 21.11 |
| | 100RB (0) | 1905 | 23.06 | 22.07 | 21.04 |
| | | 1882.5 | 23.00 | 21.99 | 21.00 |
| | | 1860 | 23.12 | 22.11 | 21.08 |

Power Level B1

| Band 25 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 1914.3 | 21.99 | 22.25 | 22.06 |
| | | 1882.5 | 21.99 | 22.24 | 22.07 |
| | | 1850.7 | 22.02 | 22.35 | 22.15 |
| | 1RB-Middle (3) | 1914.3 | 22.10 | 22.29 | 22.19 |
| | | 1882.5 | 22.10 | 22.27 | 22.23 |
| | | 1850.7 | 22.13 | 22.31 | 22.20 |
| | 1RB-Low (0) | 1914.3 | 21.99 | 22.14 | 22.22 |
| | | 1882.5 | 21.98 | 22.19 | 22.07 |
| | | 1850.7 | 22.01 | 22.23 | 22.21 |
| | 3RB-High (3) | 1914.3 | 22.07 | 22.02 | 22.12 |
| | | 1882.5 | 22.06 | 22.06 | 22.16 |
| | | 1850.7 | 22.14 | 22.11 | 22.19 |
| | 3RB-Middle (1) | 1914.3 | 22.13 | 22.10 | 22.17 |
| | | 1882.5 | 22.11 | 22.12 | 22.14 |
| | | 1850.7 | 22.17 | 22.14 | 22.23 |
| | 3RB-Low (0) | 1914.3 | 22.10 | 21.99 | 22.13 |
| | | 1882.5 | 22.10 | 22.06 | 22.14 |
| | | 1850.7 | 22.12 | 22.08 | 22.20 |
| | 6RB (0) | 1914.3 | 22.10 | 22.18 | 22.09 |
| | | 1882.5 | 22.09 | 22.17 | 21.05 |
| | | 1850.7 | 22.15 | 22.19 | 21.13 |
| 3MHz | 1RB-High (14) | 1913.5 | 22.03 | 22.22 | 22.18 |
| | | 1882.5 | 22.04 | 22.34 | 22.02 |
| | | 1851.5 | 22.05 | 22.37 | 22.26 |
| | 1RB-Middle (7) | 1913.5 | 22.11 | 22.40 | 22.27 |
| | | 1882.5 | 22.15 | 22.39 | 22.24 |
| | | 1851.5 | 22.18 | 22.44 | 22.32 |
| | 1RB-Low (0) | 1913.5 | 22.02 | 22.32 | 22.16 |
| | | 1882.5 | 22.05 | 22.35 | 22.16 |
| | | 1851.5 | 22.08 | 22.27 | 22.18 |
| | 8RB-High (7) | 1913.5 | 22.05 | 22.09 | 21.14 |
| | | 1882.5 | 22.05 | 22.08 | 21.04 |
| | | 1851.5 | 22.08 | 22.13 | 21.11 |
| | 8RB-Middle (4) | 1913.5 | 22.07 | 22.12 | 21.12 |
| | | 1882.5 | 22.05 | 22.09 | 21.07 |
| | | 1851.5 | 22.09 | 22.12 | 21.12 |
| | 8RB-Low (0) | 1913.5 | 22.06 | 22.12 | 21.14 |
| | | 1882.5 | 22.03 | 22.10 | 21.05 |
| | | 1851.5 | 22.09 | 22.09 | 21.10 |
| | 15RB (0) | 1913.5 | 22.06 | 22.08 | 21.08 |

| | | | | | |
|---|---|---|---|---|---|
| | | 1882.5 | 22.02 | 22.03 | 20.99 |
| | | 1851.5 | 22.06 | 22.08 | 21.03 |
| 5MHz | 1RB-High (24) | 1912.5 | 22.04 | 22.18 | 22.10 |
| | | 1882.5 | 21.97 | 22.14 | 22.13 |
| | | 1852.5 | 22.01 | 22.30 | 22.12 |
| | 1RB-Middle (12) | 1912.5 | 22.17 | 22.26 | 22.30 |
| | | 1882.5 | 22.16 | 22.49 | 22.31 |
| | | 1852.5 | 22.21 | 22.34 | 22.36 |
| | 1RB-Low (0) | 1912.5 | 22.00 | 22.28 | 22.07 |
| | | 1882.5 | 21.95 | 22.34 | 22.13 |
| | | 1852.5 | 22.04 | 22.32 | 22.19 |
| | 12RB-High (13) | 1912.5 | 22.04 | 22.04 | 21.09 |
| | | 1882.5 | 22.03 | 22.02 | 21.02 |
| | | 1852.5 | 22.08 | 22.05 | 21.06 |
| | 12RB-Middle (6) | 1912.5 | 22.14 | 22.13 | 21.20 |
| | | 1882.5 | 22.10 | 22.08 | 21.07 |
| | | 1852.5 | 22.14 | 22.13 | 21.13 |
| | 12RB-Low (0) | 1912.5 | 22.11 | 22.10 | 21.18 |
| | | 1882.5 | 22.08 | 22.04 | 21.04 |
| | | 1852.5 | 22.12 | 22.07 | 21.09 |
| | 25RB (0) | 1912.5 | 22.08 | 22.11 | 21.11 |
| | | 1882.5 | 22.05 | 22.03 | 21.02 |
| | | 1852.5 | 22.10 | 22.09 | 21.08 |
| 10MHz | 1RB-High (49) | 1910 | 22.01 | 22.28 | 22.16 |
| | | 1882.5 | 21.95 | 22.26 | 22.05 |
| | | 1855 | 22.07 | 22.44 | 22.29 |
| | 1RB-Middle (24) | 1910 | 22.05 | 22.32 | 22.16 |
| | | 1882.5 | 22.11 | 22.24 | 22.24 |
| | | 1855 | 22.09 | 22.32 | 22.30 |
| | 1RB-Low (0) | 1910 | 22.04 | 22.29 | 22.16 |
| | | 1882.5 | 22.04 | 22.31 | 22.18 |
| | | 1855 | 22.07 | 22.39 | 22.17 |
| | 25RB-High (25) | 1910 | 21.97 | 21.99 | 21.02 |
| | | 1882.5 | 22.03 | 22.04 | 21.02 |
| | | 1855 | 22.09 | 22.10 | 21.09 |
| | 25RB-Middle (12) | 1910 | 22.07 | 22.05 | 21.07 |
| | | 1882.5 | 22.06 | 22.06 | 21.02 |
| | | 1855 | 22.10 | 22.11 | 21.07 |
| | 25RB-Low (0) | 1910 | 22.14 | 22.11 | 21.13 |
| | | 1882.5 | 22.08 | 22.08 | 21.05 |
| | | 1855 | 22.14 | 22.14 | 21.11 |
| | 50RB (0) | 1910 | 22.04 | 22.06 | 21.35 |
| | | 1882.5 | 22.07 | 22.07 | 21.04 |
| | | 1855 | 22.12 | 22.11 | 21.11 |
| 15MHz | 1RB-High (74) | 1907.5 | 22.02 | 22.33 | 22.13 |
| | | 1882.5 | 22.02 | 22.25 | 22.15 |
| | | 1857.5 | 22.07 | 22.44 | 22.30 |
| | 1RB-Middle | 1907.5 | 22.06 | 22.32 | 22.17 |

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|---|---|---|---|---|---|
| | (37) | 1882.5 | 22.05 | 22.25 | 22.20 |
| | | 1857.5 | 22.11 | 22.33 | 22.27 |
| | 1RB-Low (0) | 1907.5 | 22.09 | 22.40 | 22.28 |
| | | 1882.5 | 22.07 | 22.40 | 22.27 |
| | | 1857.5 | 22.08 | 22.36 | 22.27 |
| | 36RB-High (38) | 1907.5 | 22.05 | 22.01 | 21.06 |
| | | 1882.5 | 22.08 | 22.04 | 21.03 |
| | | 1857.5 | 22.14 | 22.11 | 21.12 |
| | 36RB-Middle (19) | 1907.5 | 22.11 | 22.10 | 21.13 |
| | | 1882.5 | 22.11 | 22.05 | 21.06 |
| | | 1857.5 | 22.12 | 22.10 | 21.09 |
| | 36RB-Low (0) | 1907.5 | 22.18 | 22.11 | 21.34 |
| | | 1882.5 | 22.07 | 22.11 | 21.08 |
| | | 1857.5 | 22.14 | 22.08 | 21.32 |
| | 75RB (0) | 1907.5 | 22.07 | 22.07 | 21.08 |
| | | 1882.5 | 22.07 | 22.08 | 21.05 |
| | | 1857.5 | 22.11 | 22.11 | 21.07 |
| 20MHz | 1RB-High (99) | 1905 | 22.20 | 22.45 | 22.23 |
| | | 1882.5 | 22.22 | 22.49 | 22.27 |
| | | 1860 | 22.17 | 22.48 | 22.32 |
| | 1RB-Middle (50) | 1905 | 22.32 | 22.42 | 22.39 |
| | | 1882.5 | 22.27 | 22.41 | 22.30 |
| | | 1860 | 22.36 | 22.47 | 22.36 |
| | 1RB-Low (0) | 1905 | 22.27 | 22.48 | 22.35 |
| | | 1882.5 | 22.22 | 22.39 | 22.31 |
| | | 1860 | 22.26 | 22.47 | 22.39 |
| | 50RB-High (50) | 1905 | 22.11 | 22.08 | 21.07 |
| | | 1882.5 | 22.19 | 22.14 | 21.10 |
| | | 1860 | 22.26 | 22.24 | 21.18 |
| | 50RB-Middle (25) | 1905 | 22.31 | 22.29 | 21.24 |
| | | 1882.5 | 22.24 | 22.22 | 21.17 |
| | | 1860 | 22.32 | 22.24 | 21.19 |
| | 50RB-Low (0) | 1905 | 22.27 | 22.29 | 21.25 |
| | | 1882.5 | 22.21 | 22.19 | 21.11 |
| | | 1860 | 22.29 | 22.22 | 21.18 |
| | 100RB (0) | 1905 | 22.24 | 22.19 | 21.15 |
| | | 1882.5 | 22.21 | 22.14 | 21.07 |
| | | 1860 | 22.25 | 22.19 | 21.15 |

Power Level /C1

| Band 25 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 1914.3 | 22.99 | 23.26 | 22.15 |
| | | 1882.5 | 22.95 | 23.20 | 22.10 |
| | | 1850.7 | 23.00 | 23.21 | 22.19 |
| | 1RB-Middle (3) | 1914.3 | 23.09 | 23.27 | 22.30 |
| | | 1882.5 | 23.04 | 23.39 | 22.17 |
| | | 1850.7 | 23.12 | 23.39 | 22.28 |
| | 1RB-Low (0) | 1914.3 | 22.98 | 23.24 | 22.18 |
| | | 1882.5 | 22.97 | 23.22 | 22.17 |
| | | 1850.7 | 22.96 | 23.33 | 22.20 |
| | 3RB-High (3) | 1914.3 | 23.08 | 23.06 | 22.11 |
| | | 1882.5 | 23.08 | 23.08 | 22.13 |
| | | 1850.7 | 23.09 | 23.10 | 22.17 |
| | 3RB-Middle (1) | 1914.3 | 23.16 | 23.17 | 22.21 |
| | | 1882.5 | 23.14 | 23.11 | 22.21 |
| | | 1850.7 | 23.18 | 23.14 | 22.21 |
| | 3RB-Low (0) | 1914.3 | 23.11 | 23.10 | 22.16 |
| | | 1882.5 | 23.06 | 23.09 | 22.13 |
| | | 1850.7 | 23.13 | 23.09 | 22.19 |
| | 6RB (0) | 1914.3 | 23.15 | 22.15 | 21.14 |
| | | 1882.5 | 23.05 | 22.20 | 21.04 |
| | | 1850.7 | 23.12 | 22.20 | 21.12 |
| 3MHz | 1RB-High (14) | 1913.5 | 23.00 | 23.25 | 22.17 |
| | | 1882.5 | 22.98 | 23.23 | 22.13 |
| | | 1851.5 | 23.05 | 23.40 | 22.18 |
| | 1RB-Middle (7) | 1913.5 | 23.19 | 23.35 | 22.36 |
| | | 1882.5 | 23.22 | 23.48 | 22.32 |
| | | 1851.5 | 23.18 | 23.54 | 22.37 |
| | 1RB-Low (0) | 1913.5 | 23.01 | 23.36 | 22.17 |
| | | 1882.5 | 22.98 | 23.25 | 22.12 |
| | | 1851.5 | 23.03 | 23.32 | 22.27 |
| | 8RB-High (7) | 1913.5 | 23.05 | 22.10 | 21.11 |
| | | 1882.5 | 23.03 | 22.09 | 21.02 |
| | | 1851.5 | 23.06 | 22.13 | 21.12 |
| | 8RB-Middle (4) | 1913.5 | 23.10 | 22.12 | 21.14 |
| | | 1882.5 | 23.05 | 22.10 | 21.05 |
| | | 1851.5 | 23.10 | 22.13 | 21.13 |
| | 8RB-Low (0) | 1913.5 | 23.09 | 22.13 | 21.14 |
| | | 1882.5 | 23.04 | 22.09 | 21.07 |
| | | 1851.5 | 23.06 | 22.13 | 21.12 |
| | 15RB (0) | 1913.5 | 23.06 | 22.05 | 21.10 |

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|---|---|---|---|---|---|
| | | 1882.5 | 23.03 | 22.04 | 21.00 |
| | | 1851.5 | 23.06 | 22.07 | 21.06 |
| 5MHz | 1RB-High (24) | 1912.5 | 22.99 | 23.30 | 22.16 |
| | | 1882.5 | 22.94 | 23.32 | 22.06 |
| | | 1852.5 | 22.99 | 23.35 | 22.22 |
| | 1RB-Middle (12) | 1912.5 | 23.16 | 23.48 | 22.32 |
| | | 1882.5 | 23.07 | 23.43 | 22.41 |
| | | 1852.5 | 23.14 | 23.38 | 22.39 |
| | 1RB-Low (0) | 1912.5 | 22.98 | 23.16 | 22.16 |
| | | 1882.5 | 22.96 | 23.30 | 22.20 |
| | | 1852.5 | 23.01 | 23.28 | 22.20 |
| | 12RB-High (13) | 1912.5 | 22.99 | 22.04 | 21.08 |
| | | 1882.5 | 23.03 | 22.01 | 21.03 |
| | | 1852.5 | 23.07 | 22.04 | 21.09 |
| | 12RB-Middle (6) | 1912.5 | 23.12 | 22.13 | 21.16 |
| | | 1882.5 | 23.07 | 22.11 | 21.09 |
| | | 1852.5 | 23.12 | 22.07 | 21.12 |
| | 12RB-Low (0) | 1912.5 | 23.11 | 22.08 | 21.13 |
| | | 1882.5 | 23.02 | 22.02 | 21.05 |
| | | 1852.5 | 23.10 | 22.10 | 21.08 |
| | 25RB (0) | 1912.5 | 23.10 | 22.12 | 21.12 |
| | | 1882.5 | 23.03 | 22.04 | 21.00 |
| | | 1852.5 | 23.09 | 22.10 | 21.08 |
| 10MHz | 1RB-High (49) | 1910 | 23.00 | 23.22 | 22.17 |
| | | 1882.5 | 22.96 | 23.16 | 22.21 |
| | | 1855 | 23.02 | 23.35 | 22.21 |
| | 1RB-Middle (24) | 1910 | 23.10 | 23.24 | 22.21 |
| | | 1882.5 | 23.05 | 23.26 | 22.18 |
| | | 1855 | 23.11 | 23.35 | 22.37 |
| | 1RB-Low (0) | 1910 | 23.01 | 23.35 | 22.20 |
| | | 1882.5 | 22.97 | 23.35 | 22.19 |
| | | 1855 | 23.03 | 23.33 | 22.22 |
| | 25RB-High (25) | 1910 | 23.01 | 22.00 | 21.00 |
| | | 1882.5 | 23.02 | 22.04 | 21.01 |
| | | 1855 | 23.10 | 22.09 | 21.09 |
| | 25RB-Middle (12) | 1910 | 23.09 | 22.09 | 21.09 |
| | | 1882.5 | 23.02 | 22.05 | 21.03 |
| | | 1855 | 23.08 | 22.10 | 21.10 |
| | 25RB-Low (0) | 1910 | 23.15 | 22.12 | 21.12 |
| | | 1882.5 | 23.04 | 22.06 | 21.04 |
| | | 1855 | 23.11 | 22.14 | 21.12 |
| | 50RB (0) | 1910 | 23.08 | 22.04 | 21.06 |
| | | 1882.5 | 23.05 | 22.06 | 21.02 |
| | | 1855 | 23.12 | 22.12 | 21.12 |
| 15MHz | 1RB-High (74) | 1907.5 | 23.02 | 23.23 | 22.25 |
| | | 1882.5 | 22.99 | 23.28 | 22.20 |
| | | 1857.5 | 23.10 | 23.44 | 22.26 |
| | 1RB-Middle | 1907.5 | 23.06 | 23.29 | 22.12 |

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| | (37) | 1882.5 | 23.01 | 23.31 | 22.16 |
| | | 1857.5 | 23.07 | 23.39 | 22.36 |
| | 1RB-Low (0) | 1907.5 | 23.07 | 23.43 | 22.37 |
| | | 1882.5 | 23.03 | 23.28 | 22.22 |
| | | 1857.5 | 23.06 | 23.34 | 22.27 |
| | 36RB-High (38) | 1907.5 | 23.09 | 22.02 | 21.07 |
| | | 1882.5 | 23.07 | 22.06 | 21.05 |
| | | 1857.5 | 23.13 | 22.09 | 21.12 |
| | 36RB-Middle (19) | 1907.5 | 23.17 | 22.12 | 21.14 |
| | | 1882.5 | 23.08 | 22.08 | 21.09 |
| | | 1857.5 | 23.11 | 22.08 | 21.10 |
| | 36RB-Low (0) | 1907.5 | 23.13 | 22.13 | 21.14 |
| | | 1882.5 | 23.11 | 22.07 | 21.06 |
| | | 1857.5 | 23.15 | 22.12 | 21.13 |
| | 75RB (0) | 1907.5 | 23.12 | 22.08 | 21.10 |
| | | 1882.5 | 23.07 | 22.06 | 21.02 |
| | | 1857.5 | 23.11 | 22.12 | 21.09 |
| 20MHz | 1RB-High (99) | 1905 | 23.03 | 23.27 | 22.10 |
| | | 1882.5 | 23.02 | 23.32 | 22.25 |
| | | 1860 | 23.05 | 23.31 | 22.42 |
| | 1RB-Middle (50) | 1905 | 23.12 | 23.33 | 22.26 |
| | | 1882.5 | 23.11 | 23.31 | 22.21 |
| | | 1860 | 23.14 | 23.30 | 22.38 |
| | 1RB-Low (0) | 1905 | 23.08 | 23.34 | 22.32 |
| | | 1882.5 | 23.02 | 23.31 | 22.26 |
| | | 1860 | 23.05 | 23.27 | 22.33 |
| | 50RB-High (50) | 1905 | 23.01 | 21.97 | 20.96 |
| | | 1882.5 | 23.06 | 22.04 | 21.01 |
| | | 1860 | 23.12 | 22.12 | 21.09 |
| | 50RB-Middle (25) | 1905 | 23.14 | 22.15 | 21.14 |
| | | 1882.5 | 23.11 | 22.12 | 21.07 |
| | | 1860 | 23.18 | 22.15 | 21.15 |
| | 50RB-Low (0) | 1905 | 23.13 | 22.19 | 21.16 |
| | | 1882.5 | 23.06 | 22.08 | 21.04 |
| | | 1860 | 23.16 | 22.12 | 21.11 |
| | 100RB (0) | 1905 | 23.07 | 22.08 | 21.04 |
| | | 1882.5 | 23.03 | 22.05 | 21.01 |
| | | 1860 | 23.12 | 22.14 | 21.09 |

Power Level A1/B1/C1

| Band 26 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 848.3 | 24.09 | 23.31 | 22.14 |
| | | 831.5 | 24.10 | 23.38 | 22.27 |
| | | 814.7 | 24.10 | 23.41 | 22.25 |
| | 1RB-Middle (3) | 848.3 | 24.15 | 23.44 | 22.24 |
| | | 831.5 | 24.21 | 23.41 | 22.31 |
| | | 814.7 | 24.21 | 23.50 | 22.38 |
| | 1RB-Low (0) | 848.3 | 24.05 | 23.21 | 22.17 |
| | | 831.5 | 24.13 | 23.45 | 22.28 |
| | | 814.7 | 24.11 | 23.32 | 22.28 |
| | 3RB-High (3) | 848.3 | 24.16 | 23.16 | 22.23 |
| | | 831.5 | 24.19 | 23.13 | 22.24 |
| | | 814.7 | 24.25 | 23.18 | 22.31 |
| | 3RB-Middle (1) | 848.3 | 24.22 | 23.17 | 22.24 |
| | | 831.5 | 24.25 | 23.18 | 22.37 |
| | | 814.7 | 24.28 | 23.26 | 22.29 |
| | 3RB-Low (0) | 848.3 | 24.16 | 23.13 | 22.23 |
| | | 831.5 | 24.25 | 23.22 | 22.29 |
| | | 814.7 | 24.21 | 23.22 | 22.33 |
| | 6RB (0) | 848.3 | 23.22 | 22.27 | 21.17 |
| | | 831.5 | 23.21 | 22.26 | 21.23 |
| | | 814.7 | 23.22 | 22.31 | 21.24 |
| 3MHz | 1RB-High (14) | 847.5 | 24.12 | 23.34 | 22.18 |
| | | 831.5 | 24.15 | 23.50 | 22.33 |
| | | 815.5 | 23.74 | 23.01 | 21.97 |
| | 1RB-Middle (7) | 847.5 | 24.30 | 23.36 | 22.32 |
| | | 831.5 | 24.23 | 23.52 | 22.35 |
| | | 815.5 | 23.85 | 23.15 | 22.03 |
| | 1RB-Low (0) | 847.5 | 24.11 | 23.36 | 22.20 |
| | | 831.5 | 24.19 | 23.36 | 22.37 |
| | | 815.5 | 23.76 | 22.99 | 21.90 |
| | 8RB-High (7) | 847.5 | 23.13 | 22.19 | 21.15 |
| | | 831.5 | 23.16 | 22.19 | 21.22 |
| | | 815.5 | 22.73 | 21.81 | 20.78 |
| | 8RB-Middle (4) | 847.5 | 23.13 | 22.20 | 21.18 |
| | | 831.5 | 23.19 | 22.28 | 21.26 |
| | | 815.5 | 22.76 | 21.85 | 20.83 |
| | 8RB-Low (0) | 847.5 | 23.14 | 22.22 | 21.17 |
| | | 831.5 | 23.17 | 22.26 | 21.24 |
| | | 815.5 | 22.73 | 21.80 | 21.49 |
| | 15RB (0) | 847.5 | 23.16 | 22.17 | 21.10 |

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| | | 831.5 | 23.16 | 22.18 | 21.17 |
| | | 815.5 | 22.75 | 21.77 | 20.74 |
| 5MHz | 1RB-High (24) | 846.5 | 24.08 | 23.33 | 22.22 |
| | | 831.5 | 24.12 | 23.45 | 22.22 |
| | | 816.5 | 24.19 | 23.38 | 22.23 |
| | 1RB-Middle (12) | 846.5 | 24.19 | 23.41 | 22.38 |
| | | 831.5 | 24.27 | 23.61 | 22.39 |
| | | 816.5 | 24.30 | 23.62 | 22.45 |
| | 1RB-Low (0) | 846.5 | 24.10 | 23.36 | 22.21 |
| | | 831.5 | 24.20 | 23.46 | 22.34 |
| | | 816.5 | 24.15 | 23.40 | 22.27 |
| | 12RB-High (13) | 846.5 | 23.10 | 22.24 | 21.12 |
| | | 831.5 | 23.16 | 22.12 | 21.22 |
| | | 816.5 | 23.20 | 22.19 | 21.27 |
| | 12RB-Middle (6) | 846.5 | 23.20 | 22.15 | 21.19 |
| | | 831.5 | 23.23 | 22.21 | 21.24 |
| | | 816.5 | 23.24 | 22.24 | 21.34 |
| | 12RB-Low (0) | 846.5 | 23.25 | 22.22 | 21.20 |
| | | 831.5 | 23.23 | 22.21 | 21.26 |
| | | 816.5 | 23.20 | 22.19 | 21.23 |
| | 25RB (0) | 846.5 | 23.22 | 22.22 | 21.20 |
| | | 831.5 | 23.19 | 22.18 | 21.24 |
| | | 816.5 | 23.20 | 22.24 | 21.26 |
| 10MHz | 1RB-High (49) | 844 | 24.11 | 23.25 | 22.24 |
| | | 831.5 | 24.17 | 23.41 | 22.26 |
| | | 820 | 24.14 | 23.43 | 22.28 |
| | 1RB-Middle (24) | 844 | 24.25 | 23.44 | 22.28 |
| | | 831.5 | 24.24 | 23.52 | 22.25 |
| | | 820 | 24.27 | 23.60 | 22.41 |
| | 1RB-Low (0) | 844 | 24.09 | 23.47 | 22.27 |
| | | 831.5 | 24.20 | 23.51 | 22.37 |
| | | 820 | 24.21 | 23.52 | 22.38 |
| | 25RB-High (25) | 844 | 23.08 | 22.05 | 21.03 |
| | | 831.5 | 24.25 | 22.18 | 21.18 |
| | | 820 | 23.21 | 22.23 | 21.25 |
| | 25RB-Middle (12) | 844 | 23.23 | 22.23 | 21.20 |
| | | 831.5 | 23.21 | 22.22 | 21.27 |
| | | 820 | 23.23 | 22.25 | 21.28 |
| | 25RB-Low (0) | 844 | 23.32 | 22.29 | 21.27 |
| | | 831.5 | 23.28 | 22.29 | 21.32 |
| | | 820 | 23.23 | 22.26 | 21.28 |
| | 50RB (0) | 844 | 23.25 | 22.24 | 21.18 |
| | | 831.5 | 23.23 | 22.21 | 21.27 |
| | | 820 | 23.23 | 22.21 | 21.24 |
| 15MHz | 1RB-High (74) | 841.5 | 24.19 | 23.40 | 22.29 |
| | | 831.5 | 24.17 | 23.50 | 22.37 |
| | | 822.5 | 24.23 | 23.55 | 22.38 |
| | 1RB-Middle | 841.5 | 24.22 | 23.49 | 22.36 |

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| | (37) | 831.5 | 24.26 | 23.49 | 22.41 |
| | | 822.5 | 24.24 | 23.47 | 22.35 |
| | 1RB-Low (0) | 841.5 | 24.23 | 23.49 | 22.43 |
| | | 831.5 | 24.28 | 23.48 | 22.43 |
| | | 822.5 | 24.25 | 23.62 | 22.46 |
| | 36RB-High (38) | 841.5 | 23.22 | 22.15 | 21.15 |
| | | 831.5 | 23.23 | 22.20 | 21.27 |
| | | 822.5 | 23.26 | 22.24 | 21.28 |
| | 36RB-Middle (19) | 841.5 | 23.31 | 22.28 | 21.29 |
| | | 831.5 | 23.28 | 22.26 | 21.30 |
| | | 822.5 | 23.30 | 22.29 | 21.30 |
| | 36RB-Low (0) | 841.5 | 23.32 | 22.33 | 21.33 |
| | | 831.5 | 23.34 | 22.29 | 21.36 |
| | | 822.5 | 23.32 | 22.31 | 21.32 |
| | 75RB (0) | 841.5 | 23.28 | 22.28 | 21.23 |
| | | 831.5 | 23.29 | 22.26 | 21.28 |
| | | 822.5 | 23.28 | 22.28 | 21.32 |

Power Level A1/C1

| Band 41 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 5MHz | 1RB-High (24) | 2687.5 | 23.33 | 22.48 | 21.04 |
| | | 2640.3 | 23.24 | 22.32 | 20.90 |
| | | 2593 | 23.31 | 23.24 | 21.03 |
| | | 2545.8 | 23.30 | 22.39 | 21.08 |
| | | 2498.5 | 23.28 | 22.33 | 20.94 |
| | 1RB-Middle (12) | 2687.5 | 23.47 | 22.67 | 21.15 |
| | | 2640.3 | 23.37 | 22.48 | 21.05 |
| | | 2593 | 23.50 | 22.58 | 21.17 |
| | | 2545.8 | 23.39 | 22.51 | 21.10 |
| | | 2498.5 | 23.42 | 22.51 | 21.11 |
| | 1RB-Low (0) | 2687.5 | 23.35 | 22.52 | 21.09 |
| | | 2640.3 | 23.22 | 22.35 | 20.95 |
| | | 2593 | 23.40 | 22.49 | 21.06 |
| | | 2545.8 | 23.27 | 22.38 | 21.03 |
| | | 2498.5 | 23.31 | 22.45 | 21.00 |
| | 12RB-High (13) | 2687.5 | 22.41 | 21.34 | 20.37 |
| | | 2640.3 | 22.21 | 21.21 | 20.26 |
| | | 2593 | 22.32 | 21.26 | 20.37 |
| | | 2545.8 | 22.28 | 21.20 | 20.30 |
| | | 2498.5 | 22.29 | 21.22 | 20.29 |
| | 12RB-Middle (6) | 2687.5 | 22.44 | 21.36 | 20.40 |
| | | 2640.3 | 22.31 | 21.24 | 20.31 |

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| | | 2593 | 22.39 | 21.33 | 20.45 |
| | | 2545.8 | 22.31 | 21.23 | 20.34 |
| | | 2498.5 | 22.28 | 21.22 | 20.34 |
| | 12RB-Low (0) | 2687.5 | 22.42 | 21.35 | 20.42 |
| | | 2640.3 | 22.25 | 21.19 | 20.27 |
| | | 2593 | 22.36 | 21.33 | 20.40 |
| | | 2545.8 | 22.27 | 21.19 | 20.28 |
| | | 2498.5 | 22.25 | 21.20 | 20.28 |
| | 25RB (0) | 2687.5 | 22.40 | 21.42 | 20.40 |
| | | 2640.3 | 22.25 | 21.29 | 20.32 |
| | | 2593 | 22.36 | 21.36 | 20.43 |
| | | 2545.8 | 22.31 | 21.28 | 20.32 |
| | | 2498.5 | 22.25 | 21.71 | 20.32 |
| 10MHz | 1RB-High (49) | 2685 | 23.32 | 22.47 | 21.03 |
| | | 2639 | 23.26 | 22.35 | 20.93 |
| | | 2593 | 23.30 | 22.41 | 20.98 |
| | | 2547 | 23.37 | 22.47 | 21.08 |
| | | 2501 | 23.21 | 22.27 | 20.90 |
| | 1RB-Middle (24) | 2685 | 23.44 | 22.55 | 21.12 |
| | | 2639 | 23.37 | 22.43 | 20.99 |
| | | 2593 | 23.43 | 22.51 | 21.12 |
| | | 2547 | 23.36 | 22.45 | 21.08 |
| | | 2501 | 23.32 | 22.44 | 21.01 |
| | 1RB-Low (0) | 2685 | 23.45 | 22.61 | 21.13 |
| | | 2639 | 23.26 | 22.37 | 20.93 |
| | | 2593 | 23.47 | 22.57 | 21.18 |
| | | 2547 | 23.32 | 22.42 | 21.08 |
| | | 2501 | 23.34 | 22.44 | 20.99 |
| | 25RB-High (25) | 2685 | 22.41 | 21.41 | 20.44 |
| | | 2639 | 22.25 | 21.28 | 20.27 |
| | | 2593 | 22.33 | 21.35 | 20.41 |
| | | 2547 | 22.94 | 21.31 | 20.34 |
| | | 2501 | 22.21 | 21.22 | 20.27 |
| | 25RB-Middle (12) | 2685 | 22.48 | 21.45 | 20.46 |
| | | 2639 | 22.30 | 21.29 | 20.31 |
| | | 2593 | 22.39 | 21.39 | 20.46 |
| | | 2547 | 22.33 | 21.33 | 20.38 |
| | | 2501 | 22.25 | 21.24 | 20.32 |
| | 25RB-Low (0) | 2685 | 22.49 | 21.49 | 20.56 |
| | | 2639 | 22.30 | 21.31 | 20.33 |
| | | 2593 | 22.46 | 21.47 | 20.52 |
| | | 2547 | 22.35 | 21.33 | 20.39 |
| | | 2501 | 22.26 | 21.25 | 20.28 |
| | 50RB (0) | 2685 | 22.42 | 21.46 | 20.47 |
| | | 2639 | 22.27 | 21.31 | 20.27 |
| | | 2593 | 22.41 | 21.42 | 20.43 |
| | | 2547 | 22.32 | 21.36 | 20.34 |
| | | 2501 | 22.22 | 21.27 | 20.25 |

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|---|---|---|---|---|---|
| 15MHz | 1RB-High (74) | 2682.5 | 23.27 | 22.41 | 20.98 |
| | | 2637.8 | 23.17 | 22.32 | 20.86 |
| | | 2593 | 23.23 | 22.31 | 20.92 |
| | | 2548.3 | 23.37 | 22.43 | 21.07 |
| | | 2503.5 | 23.17 | 22.19 | 20.79 |
| | 1RB-Middle (37) | 2682.5 | 23.38 | 22.51 | 21.07 |
| | | 2637.8 | 23.18 | 22.29 | 20.86 |
| | | 2593 | 23.33 | 22.44 | 21.05 |
| | | 2548.3 | 23.33 | 22.42 | 21.28 |
| | | 2503.5 | 23.25 | 22.37 | 20.88 |
| | 1RB-Low (0) | 2682.5 | 23.39 | 22.72 | 21.10 |
| | | 2637.8 | 23.25 | 22.34 | 20.92 |
| | | 2593 | 23.48 | 22.55 | 21.18 |
| | | 2548.3 | 23.29 | 22.38 | 20.93 |
| | | 2503.5 | 23.29 | 22.34 | 20.93 |
| | 36RB-High (38) | 2682.5 | 22.38 | 21.36 | 20.33 |
| | | 2637.8 | 22.22 | 21.20 | 20.20 |
| | | 2593 | 22.30 | 21.21 | 20.29 |
| | | 2548.3 | 22.46 | 21.28 | 20.30 |
| | | 2503.5 | 22.18 | 21.12 | 20.15 |
| | 36RB-Middle (19) | 2682.5 | 22.42 | 21.35 | 20.44 |
| | | 2637.8 | 22.26 | 21.20 | 20.23 |
| | | 2593 | 22.38 | 21.29 | 20.35 |
| | | 2548.3 | 22.29 | 21.28 | 20.30 |
| | | 2503.5 | 22.20 | 21.15 | 20.19 |
| | 36RB-Low (0) | 2682.5 | 22.46 | 21.41 | 20.47 |
| | | 2637.8 | 22.28 | 21.19 | 20.23 |
| | | 2593 | 22.45 | 21.40 | 20.43 |
| | | 2548.3 | 22.31 | 21.25 | 20.29 |
| | | 2503.5 | 22.22 | 21.20 | 20.21 |
| | 75RB (0) | 2682.5 | 22.41 | 21.41 | 20.47 |
| | | 2637.8 | 22.25 | 21.23 | 20.26 |
| | | 2593 | 22.33 | 21.33 | 20.39 |
| | | 2548.3 | 22.30 | 21.29 | 20.33 |
| | | 2503.5 | 22.16 | 21.16 | 20.21 |
| 20MHz | 1RB-High (99) | 2680 | 23.26 | 22.38 | 20.97 |
| | | 2636.5 | 23.21 | 22.30 | 20.87 |
| | | 2593 | 23.25 | 22.32 | 20.92 |
| | | 2549.5 | 23.41 | 22.51 | 21.05 |
| | | 2506 | 23.21 | 22.31 | 20.90 |
| | 1RB-Middle (50) | 2680 | 23.42 | 22.58 | 21.14 |
| | | 2636.5 | 23.23 | 22.29 | 20.96 |
| | | 2593 | 23.42 | 22.54 | 21.12 |
| | | 2549.5 | 23.44 | 22.54 | 21.12 |
| | | 2506 | 23.35 | 22.42 | 21.01 |
| | 1RB-Low (0) | 2680 | 23.43 | 22.51 | 21.12 |
| | | 2636.5 | 23.27 | 22.32 | 20.91 |
| | | 2593 | 23.55 | 22.63 | 21.22 |

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|---|---|---|---|---|---|
| | | 2549.5 | 23.33 | 22.42 | 20.98 |
| | | 2506 | 23.45 | 22.53 | 21.08 |
| | 50RB-High (50) | 2680 | 22.34 | 21.35 | 20.34 |
| | | 2636.5 | 22.16 | 21.19 | 20.15 |
| | | 2593 | 22.28 | 21.31 | 20.32 |
| | | 2549.5 | 22.33 | 21.39 | 20.34 |
| | | 2506 | 22.25 | 21.30 | 20.28 |
| | 50RB-Middle (25) | 2680 | 22.41 | 21.44 | 20.44 |
| | | 2636.5 | 22.23 | 21.26 | 20.25 |
| | | 2593 | 22.38 | 21.42 | 20.45 |
| | | 2549.5 | 22.34 | 21.37 | 20.38 |
| | | 2506 | 22.29 | 21.35 | 20.32 |
| | 50RB-Low (0) | 2680 | 22.45 | 21.50 | 20.98 |
| | | 2636.5 | 22.24 | 21.29 | 20.24 |
| | | 2593 | 22.50 | 21.52 | 20.53 |
| | | 2549.5 | 22.36 | 21.38 | 20.36 |
| | | 2506 | 22.29 | 21.35 | 20.33 |
| | 100RB (0) | 2680 | 22.43 | 21.41 | 20.44 |
| | | 2636.5 | 22.25 | 21.24 | 20.26 |
| | | 2593 | 22.42 | 21.45 | 20.47 |
| | | 2549.5 | 22.33 | 21.38 | 20.36 |
| | | 2506 | 22.32 | 21.32 | 20.33 |

Power Level B1

| Band 41 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 5MHz | 1RB-High (24) | 2687.5 | 22.36 | 22.49 | 21.06 |
| | | 2640.3 | 22.22 | 22.35 | 20.91 |
| | | 2593 | 22.31 | 22.39 | 20.98 |
| | | 2545.8 | 22.24 | 22.40 | 21.07 |
| | | 2498.5 | 22.27 | 22.28 | 20.95 |
| | 1RB-Middle (12) | 2687.5 | 22.52 | 22.65 | 21.17 |
| | | 2640.3 | 22.36 | 22.51 | 21.05 |
| | | 2593 | 22.47 | 22.66 | 21.16 |
| | | 2545.8 | 22.41 | 22.50 | 21.09 |
| | | 2498.5 | 22.43 | 22.51 | 21.12 |
| | 1RB-Low (0) | 2687.5 | 22.38 | 22.48 | 21.93 |
| | | 2640.3 | 22.24 | 22.35 | 20.95 |
| | | 2593 | 22.39 | 22.46 | 21.09 |
| | | 2545.8 | 22.27 | 22.38 | 21.01 |
| | | 2498.5 | 22.36 | 22.42 | 21.09 |
| | 12RB-High (13) | 2687.5 | 22.40 | 21.31 | 20.38 |
| | | 2640.3 | 22.22 | 21.19 | 20.27 |

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|---|---|---|---|---|---|
| | | 2593 | 22.30 | 21.27 | 20.39 |
| | | 2545.8 | 22.26 | 21.21 | 20.29 |
| | | 2498.5 | 22.28 | 21.23 | 20.28 |
| | 12RB-Middle (6) | 2687.5 | 22.45 | 21.37 | 20.40 |
| | | 2640.3 | 22.30 | 21.22 | 20.30 |
| | | 2593 | 22.40 | 21.36 | 20.44 |
| | | 2545.8 | 22.31 | 21.25 | 20.34 |
| | | 2498.5 | 22.29 | 21.22 | 20.35 |
| | 12RB-Low (0) | 2687.5 | 22.42 | 21.32 | 20.41 |
| | | 2640.3 | 22.23 | 21.53 | 20.26 |
| | | 2593 | 22.35 | 21.31 | 20.42 |
| | | 2545.8 | 22.27 | 21.20 | 20.30 |
| | | 2498.5 | 22.25 | 21.18 | 20.30 |
| | 25RB (0) | 2687.5 | 22.41 | 21.41 | 20.44 |
| | | 2640.3 | 22.24 | 21.27 | 20.31 |
| | | 2593 | 22.36 | 21.36 | 20.44 |
| | | 2545.8 | 22.29 | 21.28 | 20.33 |
| | | 2498.5 | 22.24 | 21.26 | 20.31 |
| 10MHz | 1RB-High (49) | 2685 | 22.35 | 22.49 | 21.04 |
| | | 2639 | 22.24 | 22.38 | 20.93 |
| | | 2593 | 22.30 | 22.38 | 21.00 |
| | | 2547 | 22.38 | 22.47 | 21.30 |
| | | 2501 | 22.18 | 22.32 | 20.90 |
| | 1RB-Middle (24) | 2685 | 22.40 | 22.55 | 21.12 |
| | | 2639 | 22.32 | 22.40 | 21.00 |
| | | 2593 | 22.44 | 22.50 | 21.19 |
| | | 2547 | 22.37 | 22.47 | 21.06 |
| | | 2501 | 22.34 | 22.41 | 21.02 |
| | 1RB-Low (0) | 2685 | 22.45 | 22.55 | 21.12 |
| | | 2639 | 22.28 | 22.35 | 20.98 |
| | | 2593 | 22.45 | 22.57 | 21.17 |
| | | 2547 | 22.38 | 22.48 | 21.09 |
| | | 2501 | 22.33 | 22.43 | 21.05 |
| | 25RB-High (25) | 2685 | 22.42 | 21.40 | 20.45 |
| | | 2639 | 22.27 | 21.26 | 20.29 |
| | | 2593 | 22.37 | 21.34 | 20.41 |
| | | 2547 | 22.32 | 21.30 | 20.36 |
| | | 2501 | 22.21 | 21.22 | 20.27 |
| | 25RB-Middle (12) | 2685 | 22.46 | 21.46 | 20.49 |
| | | 2639 | 22.30 | 21.30 | 20.33 |
| | | 2593 | 22.39 | 21.41 | 20.46 |
| | | 2547 | 22.35 | 21.33 | 20.37 |
| | | 2501 | 22.25 | 21.26 | 21.00 |
| | 25RB-Low (0) | 2685 | 22.51 | 21.47 | 20.59 |
| | | 2639 | 22.29 | 21.32 | 20.34 |
| | | 2593 | 22.45 | 21.46 | 20.52 |
| | | 2547 | 22.36 | 21.33 | 20.39 |
| | | 2501 | 22.23 | 21.24 | 20.30 |

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|---|---|---|---|---|---|
| | 50RB (0) | 2685 | 22.42 | 21.46 | 20.48 |
| | | 2639 | 22.25 | 21.32 | 20.25 |
| | | 2593 | 22.39 | 21.40 | 20.42 |
| | | 2547 | 22.33 | 21.37 | 20.34 |
| | | 2501 | 22.22 | 21.25 | 20.25 |
| 15MHz | 1RB-High (74) | 2682.5 | 22.30 | 22.42 | 20.98 |
| | | 2637.8 | 22.23 | 22.32 | 20.87 |
| | | 2593 | 22.20 | 22.30 | 20.91 |
| | | 2548.3 | 22.34 | 22.48 | 21.03 |
| | | 2503.5 | 22.12 | 22.23 | 20.82 |
| | 1RB-Middle (37) | 2682.5 | 22.37 | 22.48 | 21.03 |
| | | 2637.8 | 22.21 | 22.27 | 20.89 |
| | | 2593 | 22.33 | 22.41 | 21.03 |
| | | 2548.3 | 22.34 | 22.36 | 21.02 |
| | | 2503.5 | 22.22 | 22.31 | 20.90 |
| | 1RB-Low (0) | 2682.5 | 22.41 | 22.52 | 21.11 |
| | | 2637.8 | 22.23 | 22.32 | 20.94 |
| | | 2593 | 22.47 | 22.55 | 21.21 |
| | | 2548.3 | 22.26 | 22.39 | 20.96 |
| | | 2503.5 | 22.29 | 22.39 | 21.05 |
| | 36RB-High (38) | 2682.5 | 22.38 | 21.31 | 20.34 |
| | | 2637.8 | 22.20 | 21.18 | 20.22 |
| | | 2593 | 22.30 | 21.26 | 20.31 |
| | | 2548.3 | 22.36 | 21.29 | 20.34 |
| | | 2503.5 | 22.17 | 21.13 | 20.14 |
| | 36RB-Middle (19) | 2682.5 | 22.40 | 21.37 | 20.44 |
| | | 2637.8 | 22.28 | 21.21 | 20.23 |
| | | 2593 | 22.34 | 21.31 | 20.37 |
| | | 2548.3 | 22.31 | 21.26 | 20.76 |
| | | 2503.5 | 22.23 | 21.17 | 20.18 |
| | 36RB-Low (0) | 2682.5 | 22.46 | 21.43 | 20.49 |
| | | 2637.8 | 22.27 | 21.20 | 20.23 |
| | | 2593 | 22.41 | 21.47 | 20.44 |
| | | 2548.3 | 22.31 | 21.27 | 20.30 |
| | | 2503.5 | 22.23 | 21.20 | 20.24 |
| | 75RB (0) | 2682.5 | 22.41 | 21.42 | 20.48 |
| | | 2637.8 | 22.25 | 21.29 | 20.27 |
| | | 2593 | 22.34 | 21.36 | 20.39 |
| | | 2548.3 | 22.29 | 21.31 | 20.31 |
| | | 2503.5 | 22.18 | 21.19 | 20.21 |
| 20MHz | 1RB-High (99) | 2680 | 22.34 | 22.48 | 20.99 |
| | | 2636.5 | 22.28 | 22.36 | 20.96 |
| | | 2593 | 22.24 | 22.35 | 20.94 |
| | | 2549.5 | 22.29 | 22.52 | 21.05 |
| | | 2506 | 22.15 | 22.24 | 20.82 |
| | 1RB-Middle (50) | 2680 | 22.47 | 22.53 | 21.14 |
| | | 2636.5 | 22.30 | 22.37 | 20.99 |
| | | 2593 | 22.47 | 22.52 | 21.05 |

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| | | 2549.5 | 22.44 | 22.52 | 21.08 |
| | | 2506 | 22.28 | 22.38 | 20.92 |
| | 1RB-Low (0) | 2680 | 22.53 | 22.52 | 21.19 |
| | | 2636.5 | 22.31 | 22.39 | 20.97 |
| | | 2593 | 22.54 | 22.53 | 21.21 |
| | | 2549.5 | 22.42 | 22.41 | 21.24 |
| | | 2506 | 22.33 | 22.41 | 21.04 |
| | 50RB-High (50) | 2680 | 22.36 | 21.39 | 20.38 |
| | | 2636.5 | 22.23 | 21.26 | 20.20 |
| | | 2593 | 22.29 | 21.31 | 20.32 |
| | | 2549.5 | 22.29 | 21.39 | 20.37 |
| | | 2506 | 22.20 | 21.25 | 20.21 |
| | 50RB-Middle (25) | 2680 | 22.44 | 21.49 | 20.49 |
| | | 2636.5 | 22.30 | 21.32 | 20.30 |
| | | 2593 | 22.40 | 21.45 | 20.42 |
| | | 2549.5 | 22.34 | 21.40 | 20.36 |
| | | 2506 | 22.23 | 21.24 | 20.25 |
| | 50RB-Low (0) | 2680 | 22.48 | 21.55 | 20.54 |
| | | 2636.5 | 22.33 | 21.37 | 20.31 |
| | | 2593 | 22.49 | 21.53 | 20.49 |
| | | 2549.5 | 22.35 | 21.37 | 20.35 |
| | | 2506 | 22.25 | 21.27 | 20.20 |
| | 100RB (0) | 2680 | 22.45 | 21.43 | 20.46 |
| | | 2636.5 | 22.29 | 21.31 | 20.30 |
| | | 2593 | 22.40 | 21.43 | 20.45 |
| | | 2549.5 | 22.37 | 21.37 | 20.36 |
| | | 2506 | 22.26 | 21.24 | 20.23 |

Power Level A1/C1

| Band 41 HPUE | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 5MHz | 1RB-High (24) | 2687.5 | 26.30 | 25.52 | 24.35 |
| | | 2640.3 | 26.27 | 25.42 | 24.22 |
| | | 2593 | 26.30 | 25.50 | 24.30 |
| | | 2545.8 | 26.31 | 25.68 | 24.31 |
| | | 2498.5 | 26.26 | 25.46 | 24.25 |
| | 1RB-Middle (12) | 2687.5 | 26.37 | 25.58 | 24.38 |
| | | 2640.3 | 26.27 | 25.46 | 24.27 |
| | | 2593 | 26.34 | 25.54 | 24.36 |
| | | 2545.8 | 26.33 | 25.53 | 24.30 |
| | | 2498.5 | 26.32 | 25.53 | 24.32 |
| | 1RB-Low (0) | 2687.5 | 26.35 | 25.56 | 24.37 |
| | | 2640.3 | 26.25 | 25.42 | 24.24 |

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| | | 2593 | 26.37 | 25.57 | 24.37 |
| | | 2545.8 | 26.28 | 25.46 | 24.28 |
| | | 2498.5 | 26.31 | 25.49 | 24.30 |
| | 12RB-High (13) | 2687.5 | 25.42 | 24.44 | 23.43 |
| | | 2640.3 | 25.26 | 24.27 | 23.32 |
| | | 2593 | 25.37 | 24.36 | 23.41 |
| | | 2545.8 | 25.32 | 24.31 | 23.35 |
| | | 2498.5 | 25.30 | 24.30 | 23.37 |
| | 12RB-Middle (6) | 2687.5 | 25.45 | 24.58 | 23.46 |
| | | 2640.3 | 25.31 | 24.30 | 23.35 |
| | | 2593 | 25.42 | 24.42 | 23.46 |
| | | 2545.8 | 25.34 | 24.32 | 23.36 |
| | | 2498.5 | 25.31 | 24.30 | 23.38 |
| | 12RB-Low (0) | 2687.5 | 25.45 | 24.44 | 23.46 |
| | | 2640.3 | 25.31 | 24.28 | 23.35 |
| | | 2593 | 25.41 | 24.41 | 23.45 |
| | | 2545.8 | 25.33 | 24.30 | 23.32 |
| | | 2498.5 | 25.29 | 24.28 | 23.37 |
| | 25RB (0) | 2687.5 | 25.42 | 24.46 | 23.47 |
| | | 2640.3 | 25.28 | 24.29 | 23.35 |
| | | 2593 | 25.38 | 24.42 | 23.44 |
| | | 2545.8 | 25.31 | 24.32 | 23.34 |
| | | 2498.5 | 25.27 | 24.31 | 23.37 |
| 10MHz | 1RB-High (49) | 2685 | 26.33 | 25.58 | 24.33 |
| | | 2639 | 26.25 | 25.48 | 24.25 |
| | | 2593 | 26.29 | 25.51 | 24.27 |
| | | 2547 | 26.37 | 25.59 | 24.34 |
| | | 2501 | 26.21 | 25.42 | 24.20 |
| | 1RB-Middle (24) | 2685 | 26.45 | 25.64 | 24.41 |
| | | 2639 | 26.29 | 25.51 | 24.31 |
| | | 2593 | 26.39 | 25.59 | 24.40 |
| | | 2547 | 26.37 | 25.59 | 24.36 |
| | | 2501 | 26.33 | 25.53 | 24.30 |
| | 1RB-Low (0) | 2685 | 26.45 | 25.64 | 24.41 |
| | | 2639 | 26.24 | 25.48 | 24.23 |
| | | 2593 | 26.45 | 25.65 | 24.45 |
| | | 2547 | 26.34 | 25.55 | 24.30 |
| | | 2501 | 26.32 | 25.55 | 24.33 |
| | 25RB-High (25) | 2685 | 25.44 | 24.45 | 23.49 |
| | | 2639 | 25.28 | 24.54 | 23.37 |
| | | 2593 | 25.39 | 24.42 | 23.46 |
| | | 2547 | 25.36 | 24.37 | 23.41 |
| | | 2501 | 25.25 | 24.28 | 23.37 |
| | 25RB-Middle (12) | 2685 | 25.48 | 24.49 | 23.53 |
| | | 2639 | 25.30 | 24.32 | 23.39 |
| | | 2593 | 25.43 | 24.45 | 23.49 |
| | | 2547 | 25.36 | 24.38 | 23.38 |
| | | 2501 | 25.28 | 24.31 | 23.42 |

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| | 25RB-Low (0) | 2685 | 25.50 | 24.49 | 23.57 |
| | | 2639 | 25.34 | 24.34 | 23.41 |
| | | 2593 | 25.49 | 24.51 | 23.54 |
| | | 2547 | 25.38 | 24.39 | 23.44 |
| | | 2501 | 25.64 | 24.30 | 23.38 |
| | 50RB (0) | 2685 | 25.46 | 24.51 | 23.46 |
| | | 2639 | 25.31 | 24.34 | 23.33 |
| | | 2593 | 25.42 | 24.45 | 23.46 |
| | | 2547 | 25.34 | 24.39 | 23.36 |
| | | 2501 | 25.26 | 24.32 | 23.32 |
| 15MHz | 1RB-High (74) | 2682.5 | 26.24 | 25.50 | 24.54 |
| | | 2637.8 | 26.21 | 25.41 | 24.19 |
| | | 2593 | 26.21 | 25.40 | 24.20 |
| | | 2548.3 | 26.36 | 25.57 | 24.34 |
| | | 2503.5 | 26.14 | 25.35 | 24.14 |
| | 1RB-Middle (37) | 2682.5 | 26.44 | 25.62 | 24.35 |
| | | 2637.8 | 26.18 | 25.40 | 24.17 |
| | | 2593 | 26.32 | 25.52 | 24.32 |
| | | 2548.3 | 26.32 | 25.53 | 24.31 |
| | | 2503.5 | 26.22 | 25.43 | 24.21 |
| | 1RB-Low (0) | 2682.5 | 26.45 | 25.63 | 24.42 |
| | | 2637.8 | 26.26 | 25.44 | 24.23 |
| | | 2593 | 26.47 | 25.66 | 24.44 |
| | | 2548.3 | 26.29 | 25.51 | 24.28 |
| | | 2503.5 | 26.28 | 25.47 | 24.29 |
| | 36RB-High (38) | 2682.5 | 25.42 | 24.36 | 23.36 |
| | | 2637.8 | 25.26 | 24.22 | 23.23 |
| | | 2593 | 25.33 | 24.28 | 23.33 |
| | | 2548.3 | 25.38 | 24.32 | 23.35 |
| | | 2503.5 | 25.22 | 24.17 | 23.21 |
| | 36RB-Middle (19) | 2682.5 | 25.44 | 24.40 | 23.44 |
| | | 2637.8 | 25.29 | 24.24 | 23.28 |
| | | 2593 | 25.40 | 24.35 | 23.39 |
| | | 2548.3 | 25.35 | 24.31 | 23.31 |
| | | 2503.5 | 25.24 | 24.17 | 23.20 |
| | 36RB-Low (0) | 2682.5 | 25.49 | 24.46 | 23.49 |
| | | 2637.8 | 25.30 | 24.26 | 23.27 |
| | | 2593 | 25.48 | 24.42 | 23.47 |
| | | 2548.3 | 25.36 | 24.31 | 23.32 |
| | | 2503.5 | 25.28 | 24.24 | 23.28 |
| | 75RB (0) | 2682.5 | 25.43 | 24.45 | 23.47 |
| | | 2637.8 | 25.28 | 24.28 | 23.30 |
| | | 2593 | 25.40 | 24.39 | 23.42 |
| | | 2548.3 | 25.33 | 24.34 | 23.35 |
| | | 2503.5 | 25.23 | 24.24 | 23.25 |
| 20MHz | 1RB-High (99) | 2680 | 26.15 | 25.38 | 24.16 |
| | | 2636.5 | 26.08 | 25.30 | 24.07 |
| | | 2593 | 26.12 | 25.30 | 24.08 |

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| | | 2549.5 | 26.20 | 25.50 | 24.32 |
| | | 2506 | 26.09 | 25.33 | 24.14 |
| | 1RB-Middle (50) | 2680 | 26.30 | 25.51 | 24.32 |
| | | 2636.5 | 26.10 | 25.31 | 24.11 |
| | | 2593 | 26.30 | 25.49 | 24.32 |
| | | 2549.5 | 26.29 | 25.52 | 24.34 |
| | | 2506 | 26.25 | 25.44 | 24.25 |
| | 1RB-Low (0) | 2680 | 26.31 | 25.52 | 24.33 |
| | | 2636.5 | 26.13 | 25.30 | 24.10 |
| | | 2593 | 26.41 | 25.62 | 24.41 |
| | | 2549.5 | 26.33 | 25.40 | 24.21 |
| | | 2506 | 26.28 | 25.46 | 24.28 |
| | 50RB-High (50) | 2680 | 25.25 | 24.30 | 23.31 |
| | | 2636.5 | 25.08 | 24.10 | 23.12 |
| | | 2593 | 25.25 | 24.27 | 23.27 |
| | | 2549.5 | 25.30 | 24.30 | 23.30 |
| | | 2506 | 25.22 | 24.26 | 23.26 |
| | 50RB-Middle (25) | 2680 | 25.35 | 24.37 | 23.39 |
| | | 2636.5 | 25.17 | 24.18 | 23.19 |
| | | 2593 | 25.34 | 24.38 | 23.39 |
| | | 2549.5 | 25.32 | 24.33 | 23.31 |
| | | 2506 | 25.27 | 24.33 | 23.28 |
| | 50RB-Low (0) | 2680 | 25.40 | 24.41 | 23.43 |
| | | 2636.5 | 25.18 | 24.19 | 23.21 |
| | | 2593 | 25.55 | 24.44 | 23.45 |
| | | 2549.5 | 25.32 | 24.33 | 23.30 |
| | | 2506 | 25.51 | 24.32 | 23.29 |
| | 100RB (0) | 2680 | 25.37 | 24.39 | 23.37 |
| | | 2636.5 | 25.18 | 24.18 | 23.17 |
| | | 2593 | 25.38 | 24.36 | 23.38 |
| | | 2549.5 | 25.32 | 24.30 | 23.31 |
| | | 2506 | 25.27 | 24.30 | 23.30 |

## Power Level B1

| Band 41 HPUE | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 5MHz | 1RB-High (24) | 2687.5 | 24.39 | 24.58 | 24.32 |
| | | 2640.3 | 24.25 | 24.25 | 24.22 |
| | | 2593 | 24.30 | 24.53 | 24.29 |
| | | 2545.8 | 24.34 | 24.54 | 24.29 |
| | | 2498.5 | 24.28 | 24.48 | 24.24 |
| | 1RB-Middle (12) | 2687.5 | 24.41 | 24.62 | 24.39 |
| | | 2640.3 | 24.27 | 24.50 | 24.26 |

| | | | | | |
|---|---|---|---|---|---|
| | | 2593 | 24.39 | 24.60 | 24.36 |
| | | 2545.8 | 24.34 | 24.56 | 24.36 |
| | | 2498.5 | 24.35 | 24.56 | 24.31 |
| | 1RB-Low (0) | 2687.5 | 24.38 | 24.58 | 24.36 |
| | | 2640.3 | 24.26 | 24.48 | 24.23 |
| | | 2593 | 24.39 | 24.60 | 24.38 |
| | | 2545.8 | 24.30 | 24.50 | 24.27 |
| | | 2498.5 | 24.35 | 24.52 | 24.28 |
| | 12RB-High (13) | 2687.5 | 24.42 | 24.42 | 23.44 |
| | | 2640.3 | 24.26 | 24.25 | 23.31 |
| | | 2593 | 24.34 | 24.36 | 23.40 |
| | | 2545.8 | 24.31 | 24.31 | 23.32 |
| | | 2498.5 | 24.27 | 24.28 | 23.37 |
| | 12RB-Middle (6) | 2687.5 | 24.43 | 24.43 | 23.45 |
| | | 2640.3 | 24.26 | 24.30 | 23.36 |
| | | 2593 | 24.39 | 24.42 | 23.45 |
| | | 2545.8 | 24.32 | 24.30 | 23.36 |
| | | 2498.5 | 24.29 | 24.29 | 23.37 |
| | 12RB-Low (0) | 2687.5 | 24.43 | 24.45 | 23.45 |
| | | 2640.3 | 24.28 | 24.27 | 23.34 |
| | | 2593 | 24.38 | 24.40 | 23.46 |
| | | 2545.8 | 24.30 | 24.29 | 23.34 |
| | | 2498.5 | 24.28 | 24.28 | 23.37 |
| | 25RB (0) | 2687.5 | 24.42 | 24.45 | 23.46 |
| | | 2640.3 | 24.26 | 24.28 | 23.35 |
| | | 2593 | 24.34 | 24.41 | 23.44 |
| | | 2545.8 | 24.29 | 24.31 | 23.36 |
| | | 2498.5 | 24.27 | 24.30 | 23.38 |
| 10MHz | 1RB-High (49) | 2685 | 24.40 | 24.60 | 24.31 |
| | | 2639 | 24.25 | 24.48 | 24.22 |
| | | 2593 | 24.30 | 24.53 | 24.27 |
| | | 2547 | 24.40 | 24.64 | 24.34 |
| | | 2501 | 24.25 | 24.44 | 24.19 |
| | 1RB-Middle (24) | 2685 | 24.49 | 24.65 | 24.37 |
| | | 2639 | 24.31 | 24.54 | 24.28 |
| | | 2593 | 24.44 | 24.65 | 24.40 |
| | | 2547 | 24.40 | 24.60 | 24.35 |
| | | 2501 | 24.30 | 24.55 | 24.30 |
| | 1RB-Low (0) | 2685 | 24.48 | 24.70 | 24.43 |
| | | 2639 | 24.26 | 24.48 | 24.23 |
| | | 2593 | 24.47 | 24.70 | 24.44 |
| | | 2547 | 24.35 | 24.56 | 24.32 |
| | | 2501 | 24.36 | 24.55 | 24.31 |
| | 25RB-High (25) | 2685 | 24.42 | 24.45 | 23.47 |
| | | 2639 | 24.25 | 24.28 | 23.37 |
| | | 2593 | 24.37 | 24.40 | 23.45 |
| | | 2547 | 24.35 | 24.37 | 23.41 |
| | | 2501 | 24.25 | 24.27 | 23.35 |

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|---|---|---|---|---|---|
| | 25RB-Middle (12) | 2685 | 24.46 | 24.50 | 23.51 |
| | | 2639 | 24.29 | 24.31 | 23.40 |
| | | 2593 | 24.41 | 24.43 | 23.49 |
| | | 2547 | 24.34 | 24.37 | 23.40 |
| | | 2501 | 24.29 | 24.31 | 23.41 |
| | 25RB-Low (0) | 2685 | 24.47 | 24.49 | 23.56 |
| | | 2639 | 24.31 | 24.34 | 23.41 |
| | | 2593 | 24.45 | 24.48 | 23.56 |
| | | 2547 | 24.37 | 24.38 | 23.40 |
| | | 2501 | 24.26 | 24.30 | 23.38 |
| | 50RB (0) | 2685 | 24.42 | 24.47 | 23.45 |
| | | 2639 | 24.29 | 24.32 | 23.32 |
| | | 2593 | 24.41 | 24.45 | 23.44 |
| | | 2547 | 24.32 | 24.36 | 23.36 |
| | | 2501 | 24.24 | 24.32 | 23.33 |
| 15MHz | 1RB-High (74) | 2682.5 | 24.28 | 24.50 | 24.28 |
| | | 2637.8 | 24.19 | 24.41 | 24.18 |
| | | 2593 | 24.20 | 24.42 | 24.17 |
| | | 2548.3 | 24.39 | 24.61 | 24.36 |
| | | 2503.5 | 24.15 | 24.40 | 24.13 |
| | 1RB-Middle (37) | 2682.5 | 24.36 | 24.58 | 24.34 |
| | | 2637.8 | 24.18 | 24.46 | 24.18 |
| | | 2593 | 24.32 | 24.55 | 24.33 |
| | | 2548.3 | 24.35 | 24.61 | 24.32 |
| | | 2503.5 | 24.22 | 24.44 | 24.20 |
| | 1RB-Low (0) | 2682.5 | 24.42 | 24.64 | 24.40 |
| | | 2637.8 | 24.24 | 24.46 | 24.22 |
| | | 2593 | 24.45 | 24.69 | 24.42 |
| | | 2548.3 | 24.29 | 24.51 | 24.29 |
| | | 2503.5 | 24.30 | 24.51 | 24.25 |
| | 36RB-High (38) | 2682.5 | 24.38 | 24.33 | 23.37 |
| | | 2637.8 | 24.20 | 24.19 | 23.23 |
| | | 2593 | 24.29 | 24.27 | 23.33 |
| | | 2548.3 | 24.33 | 24.32 | 23.34 |
| | | 2503.5 | 24.21 | 24.16 | 23.19 |
| | 36RB-Middle (19) | 2682.5 | 24.39 | 24.37 | 23.42 |
| | | 2637.8 | 24.25 | 24.20 | 23.27 |
| | | 2593 | 24.36 | 24.35 | 23.37 |
| | | 2548.3 | 24.33 | 24.27 | 23.31 |
| | | 2503.5 | 24.17 | 24.17 | 23.20 |
| | 36RB-Low (0) | 2682.5 | 24.40 | 24.43 | 23.48 |
| | | 2637.8 | 24.24 | 24.22 | 23.26 |
| | | 2593 | 24.43 | 24.40 | 23.46 |
| | | 2548.3 | 24.32 | 24.27 | 23.34 |
| | | 2503.5 | 24.25 | 24.23 | 23.25 |
| | 75RB (0) | 2682.5 | 24.41 | 24.44 | 23.46 |
| | | 2637.8 | 24.25 | 24.28 | 23.30 |
| | | 2593 | 24.35 | 24.38 | 23.42 |

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|---|---|---|---|---|---|
| | | 2548.3 | 24.29 | 24.31 | 23.32 |
| | | 2503.5 | 24.21 | 24.24 | 23.22 |
| 20MHz | 1RB-High (99) | 2680 | 24.20 | 24.38 | 24.15 |
| | | 2636.5 | 24.13 | 24.33 | 24.09 |
| | | 2593 | 24.09 | 24.31 | 24.08 |
| | | 2549.5 | 24.30 | 24.41 | 24.20 |
| | | 2506 | 24.05 | 24.26 | 24.02 |
| | 1RB-Middle (50) | 2680 | 24.32 | 24.44 | 24.30 |
| | | 2636.5 | 24.15 | 24.32 | 24.09 |
| | | 2593 | 24.32 | 24.42 | 24.27 |
| | | 2549.5 | 24.32 | 24.44 | 24.28 |
| | | 2506 | 24.16 | 24.38 | 24.13 |
| | 1RB-Low (0) | 2680 | 24.39 | 24.37 | 24.35 |
| | | 2636.5 | 24.18 | 24.35 | 24.12 |
| | | 2593 | 24.41 | 24.43 | 24.36 |
| | | 2549.5 | 24.33 | 24.39 | 24.16 |
| | | 2506 | 24.23 | 24.42 | 24.18 |
| | 50RB-High (50) | 2680 | 24.24 | 24.27 | 23.30 |
| | | 2636.5 | 24.09 | 24.12 | 23.11 |
| | | 2593 | 24.19 | 24.21 | 23.22 |
| | | 2549.5 | 24.23 | 24.28 | 23.26 |
| | | 2506 | 24.11 | 24.15 | 23.14 |
| | 50RB-Middle (25) | 2680 | 24.32 | 24.35 | 23.38 |
| | | 2636.5 | 24.16 | 24.19 | 23.22 |
| | | 2593 | 24.29 | 24.31 | 23.30 |
| | | 2549.5 | 24.24 | 24.28 | 23.27 |
| | | 2506 | 24.11 | 24.18 | 23.16 |
| | 50RB-Low (0) | 2680 | 24.34 | 24.42 | 23.41 |
| | | 2636.5 | 24.20 | 24.19 | 23.24 |
| | | 2593 | 24.37 | 24.38 | 23.41 |
| | | 2549.5 | 24.25 | 24.25 | 23.25 |
| | | 2506 | 24.12 | 24.15 | 23.18 |
| | 100RB (0) | 2680 | 24.31 | 24.36 | 23.40 |
| | | 2636.5 | 24.16 | 24.18 | 23.20 |
| | | 2593 | 24.32 | 24.31 | 23.33 |
| | | 2549.5 | 24.21 | 24.27 | 23.27 |
| | | 2506 | 24.14 | 24.16 | 23.15 |

Power Level A1

| Band 66 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 1779.3 | 24.04 | 23.29 | 22.05 |
| | | 1745 | 24.01 | 23.20 | 22.06 |
| | | 1710.7 | 24.10 | 23.21 | 22.10 |
| | 1RB-Middle (3) | 1779.3 | 24.17 | 23.38 | 22.13 |
| | | 1745 | 23.15 | 23.31 | 22.08 |
| | | 1710.7 | 24.23 | 23.37 | 22.17 |
| | 1RB-Low (0) | 1779.3 | 24.04 | 23.14 | 22.06 |
| | | 1745 | 24.03 | 23.30 | 22.10 |
| | | 1710.7 | 24.09 | 23.26 | 22.15 |
| | 3RB-High (3) | 1779.3 | 24.20 | 23.13 | 22.08 |
| | | 1745 | 24.13 | 23.07 | 22.07 |
| | | 1710.7 | 24.22 | 23.15 | 22.17 |
| | 3RB-Middle (1) | 1779.3 | 24.21 | 23.17 | 22.14 |
| | | 1745 | 24.18 | 23.13 | 22.15 |
| | | 1710.7 | 24.25 | 23.17 | 22.23 |
| | 3RB-Low (0) | 1779.3 | 24.17 | 23.11 | 22.12 |
| | | 1745 | 24.11 | 23.11 | 22.10 |
| | | 1710.7 | 24.21 | 23.10 | 22.15 |
| | 6RB (0) | 1779.3 | 23.23 | 22.14 | 21.06 |
| | | 1745 | 23.15 | 22.21 | 21.06 |
| | | 1710.7 | 23.21 | 22.20 | 21.12 |
| 3MHz | 1RB-High (14) | 1778.5 | 24.13 | 23.21 | 22.11 |
| | | 1745 | 24.07 | 23.30 | 22.10 |
| | | 1711.5 | 24.13 | 23.28 | 22.18 |
| | 1RB-Middle (7) | 1778.5 | 24.16 | 23.37 | 22.09 |
| | | 1745 | 23.10 | 23.40 | 22.23 |
| | | 1711.5 | 24.22 | 23.35 | 22.32 |
| | 1RB-Low (0) | 1778.5 | 24.09 | 23.31 | 22.16 |
| | | 1745 | 24.09 | 23.31 | 22.10 |
| | | 1711.5 | 24.15 | 23.37 | 22.20 |
| | 8RB-High (7) | 1778.5 | 23.12 | 22.04 | 21.02 |
| | | 1745 | 23.12 | 22.05 | 21.02 |
| | | 1711.5 | 23.17 | 22.13 | 21.13 |
| | 8RB-Middle (4) | 1778.5 | 23.13 | 22.08 | 21.04 |
| | | 1745 | 23.10 | 22.07 | 21.08 |
| | | 1711.5 | 23.17 | 22.11 | 21.15 |
| | 8RB-Low (0) | 1778.5 | 23.14 | 22.05 | 21.03 |
| | | 1745 | 23.07 | 22.06 | 21.06 |
| | | 1711.5 | 23.14 | 22.13 | 21.10 |
| | 15RB (0) | 1778.5 | 23.17 | 22.05 | 21.04 |

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| | | 1745 | 23.10 | 22.02 | 21.00 |
| | | 1711.5 | 23.17 | 22.12 | 21.10 |
| 5MHz | 1RB-High (24) | 1777.5 | 24.07 | 23.23 | 22.08 |
| | | 1745 | 24.05 | 23.21 | 22.03 |
| | | 1712.5 | 24.10 | 23.38 | 22.16 |
| | 1RB-Middle (12) | 1777.5 | 24.26 | 23.36 | 22.38 |
| | | 1745 | 24.19 | 23.35 | 22.25 |
| | | 1712.5 | 24.28 | 23.52 | 22.26 |
| | 1RB-Low (0) | 1777.5 | 24.09 | 23.26 | 22.08 |
| | | 1745 | 24.07 | 23.26 | 22.17 |
| | | 1712.5 | 24.16 | 23.36 | 22.20 |
| | 12RB-High (13) | 1777.5 | 23.09 | 21.98 | 20.98 |
| | | 1745 | 23.13 | 22.04 | 21.01 |
| | | 1712.5 | 23.19 | 22.13 | 21.13 |
| | 12RB-Middle (6) | 1777.5 | 23.18 | 22.06 | 21.04 |
| | | 1745 | 23.15 | 22.08 | 21.05 |
| | | 1712.5 | 23.21 | 22.14 | 21.15 |
| | 12RB-Low (0) | 1777.5 | 23.17 | 22.09 | 21.07 |
| | | 1745 | 23.11 | 22.04 | 21.04 |
| | | 1712.5 | 23.17 | 22.07 | 21.10 |
| | 25RB (0) | 1777.5 | 23.16 | 22.04 | 21.04 |
| | | 1745 | 23.13 | 22.06 | 21.04 |
| | | 1712.5 | 23.20 | 22.16 | 21.12 |
| 10MHz | 1RB-High (49) | 1775 | 24.10 | 23.27 | 22.09 |
| | | 1745 | 24.08 | 23.31 | 22.14 |
| | | 1715 | 24.07 | 23.32 | 22.16 |
| | 1RB-Middle (24) | 1775 | 24.22 | 23.40 | 22.19 |
| | | 1745 | 24.12 | 23.38 | 22.19 |
| | | 1715 | 24.20 | 23.33 | 22.24 |
| | 1RB-Low (0) | 1775 | 24.15 | 23.34 | 22.18 |
| | | 1745 | 24.10 | 23.36 | 22.13 |
| | | 1715 | 24.15 | 23.31 | 22.13 |
| | 25RB-High (25) | 1775 | 23.15 | 22.06 | 21.02 |
| | | 1745 | 23.24 | 22.11 | 21.10 |
| | | 1715 | 23.24 | 22.16 | 21.17 |
| | 25RB-Middle (12) | 1775 | 23.24 | 22.14 | 21.11 |
| | | 1745 | 23.18 | 22.34 | 21.08 |
| | | 1715 | 23.22 | 22.16 | 21.18 |
| | 25RB-Low (0) | 1775 | 23.23 | 22.16 | 21.14 |
| | | 1745 | 23.20 | 22.10 | 21.08 |
| | | 1715 | 23.20 | 22.16 | 21.14 |
| | 50RB (0) | 1775 | 23.20 | 22.10 | 21.09 |
| | | 1745 | 23.23 | 22.15 | 21.13 |
| | | 1715 | 23.24 | 22.15 | 21.16 |
| 15MHz | 1RB-High (74) | 1772.5 | 24.05 | 23.28 | 22.05 |
| | | 1745 | 24.04 | 23.29 | 22.09 |
| | | 1717.5 | 24.08 | 23.38 | 22.14 |
| | 1RB-Middle | 1772.5 | 24.07 | 23.29 | 22.15 |

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| | (37) | 1745 | 24.02 | 23.24 | 22.08 |
| | | 1717.5 | 24.05 | 23.33 | 22.16 |
| | 1RB-Low (0) | 1772.5 | 24.08 | 23.34 | 22.19 |
| | | 1745 | 24.09 | 23.36 | 22.18 |
| | | 1717.5 | 24.12 | 23.39 | 22.19 |
| | 36RB-High (38) | 1772.5 | 23.15 | 22.03 | 21.07 |
| | | 1745 | 23.18 | 22.07 | 21.09 |
| | | 1717.5 | 23.17 | 22.08 | 21.13 |
| | 36RB-Middle (19) | 1772.5 | 23.20 | 22.10 | 21.12 |
| | | 1745 | 23.17 | 22.11 | 21.06 |
| | | 1717.5 | 23.18 | 22.08 | 21.12 |
| | 36RB-Low (0) | 1772.5 | 23.22 | 22.15 | 21.16 |
| | | 1745 | 23.16 | 22.08 | 21.11 |
| | | 1717.5 | 23.16 | 22.07 | 21.09 |
| | 75RB (0) | 1772.5 | 23.17 | 22.10 | 21.08 |
| | | 1745 | 23.19 | 22.11 | 21.09 |
| | | 1717.5 | 23.16 | 22.10 | 21.08 |
| 20MHz | 1RB-High (99) | 1770 | 23.94 | 23.07 | 21.97 |
| | | 1745 | 23.86 | 23.11 | 21.94 |
| | | 1720 | 23.94 | 23.24 | 22.12 |
| | 1RB-Middle (50) | 1770 | 24.09 | 23.24 | 22.10 |
| | | 1745 | 23.99 | 23.25 | 21.99 |
| | | 1720 | 24.03 | 23.22 | 22.19 |
| | 1RB-Low (0) | 1770 | 23.98 | 23.22 | 22.07 |
| | | 1745 | 23.96 | 23.30 | 22.08 |
| | | 1720 | 24.02 | 23.33 | 22.07 |
| | 50RB-High (50) | 1770 | 23.08 | 22.00 | 21.01 |
| | | 1745 | 23.04 | 21.97 | 20.97 |
| | | 1720 | 23.06 | 21.99 | 21.02 |
| | 50RB-Middle (25) | 1770 | 23.11 | 22.10 | 21.06 |
| | | 1745 | 23.11 | 22.06 | 21.03 |
| | | 1720 | 23.09 | 22.05 | 21.03 |
| | 50RB-Low (0) | 1770 | 23.17 | 22.14 | 21.09 |
| | | 1745 | 23.04 | 22.01 | 20.98 |
| | | 1720 | 23.06 | 21.98 | 21.01 |
| | 100RB (0) | 1770 | 23.10 | 22.04 | 21.01 |
| | | 1745 | 23.03 | 21.96 | 20.93 |
| | | 1720 | 23.02 | 21.96 | 20.98 |

Power Level B1

| Band 66 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 1779.3 | 19.04 | 19.20 | 19.05 |

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|---|---|---|---|---|---|
| | | 1745 | 19.01 | 19.19 | 19.16 |
| | | 1710.7 | 19.08 | 19.35 | 19.18 |
| | 1RB-Middle (3) | 1779.3 | 19.13 | 19.32 | 19.21 |
| | | 1745 | 19.10 | 19.26 | 19.12 |
| | | 1710.7 | 19.17 | 19.29 | 19.25 |
| | 1RB-Low (0) | 1779.3 | 19.02 | 19.16 | 19.10 |
| | | 1745 | 18.98 | 19.24 | 19.06 |
| | | 1710.7 | 19.07 | 19.32 | 19.22 |
| | 3RB-High (3) | 1779.3 | 19.13 | 19.01 | 19.14 |
| | | 1745 | 19.09 | 18.99 | 19.16 |
| | | 1710.7 | 19.18 | 19.12 | 19.26 |
| | 3RB-Middle (1) | 1779.3 | 19.17 | 19.09 | 19.20 |
| | | 1745 | 19.15 | 19.08 | 19.18 |
| | | 1710.7 | 19.20 | 19.14 | 19.24 |
| | 3RB-Low (0) | 1779.3 | 19.12 | 19.07 | 19.13 |
| | | 1745 | 19.09 | 19.06 | 19.12 |
| | | 1710.7 | 19.16 | 19.08 | 19.18 |
| | 6RB (0) | 1779.3 | 19.12 | 19.19 | 19.07 |
| | | 1745 | 19.10 | 19.20 | 19.06 |
| | | 1710.7 | 19.15 | 19.21 | 19.14 |
| 3MHz | 1RB-High (14) | 1778.5 | 19.10 | 19.30 | 19.17 |
| | | 1745 | 19.05 | 19.26 | 19.15 |
| | | 1711.5 | 19.15 | 19.25 | 19.28 |
| | 1RB-Middle (7) | 1778.5 | 19.17 | 19.32 | 19.22 |
| | | 1745 | 19.17 | 19.41 | 19.28 |
| | | 1711.5 | 19.20 | 19.39 | 19.28 |
| | 1RB-Low (0) | 1778.5 | 19.10 | 19.19 | 19.17 |
| | | 1745 | 19.04 | 19.34 | 19.16 |
| | | 1711.5 | 19.13 | 19.38 | 19.19 |
| | 8RB-High (7) | 1778.5 | 19.06 | 19.05 | 19.03 |
| | | 1745 | 19.01 | 19.09 | 19.05 |
| | | 1711.5 | 19.10 | 19.14 | 19.10 |
| | 8RB-Middle (4) | 1778.5 | 19.09 | 19.08 | 19.07 |
| | | 1745 | 19.07 | 19.09 | 19.09 |
| | | 1711.5 | 19.15 | 19.20 | 19.14 |
| | 8RB-Low (0) | 1778.5 | 19.09 | 19.09 | 19.04 |
| | | 1745 | 19.03 | 19.08 | 18.99 |
| | | 1711.5 | 19.11 | 19.11 | 19.11 |
| | 15RB (0) | 1778.5 | 19.08 | 19.07 | 19.03 |
| | | 1745 | 19.02 | 19.03 | 18.97 |
| | | 1711.5 | 19.11 | 19.13 | 19.10 |
| 5MHz | 1RB-High (24) | 1777.5 | 19.06 | 19.20 | 19.10 |
| | | 1745 | 19.01 | 19.28 | 19.05 |
| | | 1712.5 | 19.10 | 19.30 | 19.18 |
| | 1RB-Middle (12) | 1777.5 | 19.20 | 19.34 | 19.29 |
| | | 1745 | 19.14 | 19.43 | 19.24 |
| | | 1712.5 | 19.24 | 19.48 | 19.34 |
| | 1RB-Low (0) | 1777.5 | 19.09 | 19.19 | 19.15 |

| | | | | | |
|---|---|---|---|---|---|
| | | 1745 | 19.03 | 19.24 | 19.15 |
| | | 1712.5 | 19.10 | 19.38 | 19.22 |
| | 12RB-High (13) | 1777.5 | 19.07 | 18.96 | 19.01 |
| | | 1745 | 19.06 | 19.03 | 19.03 |
| | | 1712.5 | 19.13 | 19.15 | 19.16 |
| | 12RB-Middle (6) | 1777.5 | 19.13 | 19.08 | 19.09 |
| | | 1745 | 19.10 | 19.07 | 19.09 |
| | | 1712.5 | 19.16 | 19.11 | 19.16 |
| | 12RB-Low (0) | 1777.5 | 19.12 | 19.08 | 19.10 |
| | | 1745 | 19.07 | 19.06 | 19.05 |
| | | 1712.5 | 19.11 | 19.10 | 19.11 |
| | 25RB (0) | 1777.5 | 19.11 | 19.08 | 19.04 |
| | | 1745 | 19.06 | 19.03 | 19.02 |
| | | 1712.5 | 19.14 | 19.11 | 19.11 |
| 10MHz | 1RB-High (49) | 1775 | 19.08 | 19.21 | 19.11 |
| | | 1745 | 19.02 | 19.25 | 19.13 |
| | | 1715 | 19.04 | 19.29 | 19.13 |
| | 1RB-Middle (24) | 1775 | 19.16 | 19.38 | 19.21 |
| | | 1745 | 19.13 | 19.32 | 19.23 |
| | | 1715 | 19.12 | 19.40 | 19.30 |
| | 1RB-Low (0) | 1775 | 19.12 | 19.35 | 19.25 |
| | | 1745 | 19.07 | 19.36 | 19.20 |
| | | 1715 | 19.15 | 19.33 | 19.21 |
| | 25RB-High (25) | 1775 | 19.14 | 19.06 | 19.07 |
| | | 1745 | 19.12 | 19.11 | 19.11 |
| | | 1715 | 19.17 | 19.17 | 19.15 |
| | 25RB-Middle (12) | 1775 | 19.16 | 19.11 | 19.13 |
| | | 1745 | 19.09 | 19.09 | 19.07 |
| | | 1715 | 19.16 | 19.14 | 19.14 |
| | 25RB-Low (0) | 1775 | 19.15 | 19.12 | 19.14 |
| | | 1745 | 19.09 | 19.08 | 19.09 |
| | | 1715 | 19.14 | 19.14 | 19.11 |
| | 50RB (0) | 1775 | 19.13 | 19.12 | 19.09 |
| | | 1745 | 19.11 | 19.12 | 19.09 |
| | | 1715 | 19.16 | 19.15 | 19.14 |
| 15MHz | 1RB-High (74) | 1772.5 | 19.08 | 19.21 | 19.11 |
| | | 1745 | 19.02 | 19.29 | 19.16 |
| | | 1717.5 | 19.06 | 19.30 | 19.18 |
| | 1RB-Middle (37) | 1772.5 | 19.08 | 19.26 | 19.12 |
| | | 1745 | 19.00 | 19.19 | 19.08 |
| | | 1717.5 | 19.05 | 19.27 | 19.18 |
| | 1RB-Low (0) | 1772.5 | 19.09 | 19.40 | 19.19 |
| | | 1745 | 19.08 | 19.32 | 19.25 |
| | | 1717.5 | 19.09 | 19.39 | 19.23 |
| | 36RB-High (38) | 1772.5 | 19.11 | 19.05 | 19.08 |
| | | 1745 | 19.12 | 19.07 | 19.07 |
| | | 1717.5 | 19.12 | 19.07 | 19.09 |
| | 36RB-Middle | 1772.5 | 19.16 | 19.09 | 19.10 |

| | | | | | |
|---|---|---|---|---|---|
| | (19) | 1745 | 19.12 | 19.07 | 19.08 |
| | | 1717.5 | 19.12 | 19.09 | 19.12 |
| | 36RB-Low (0) | 1772.5 | 19.13 | 19.11 | 19.13 |
| | | 1745 | 19.11 | 19.05 | 19.07 |
| | | 1717.5 | 19.10 | 19.10 | 19.11 |
| | 75RB (0) | 1772.5 | 19.13 | 19.10 | 19.08 |
| | | 1745 | 19.11 | 19.08 | 19.06 |
| | | 1717.5 | 19.11 | 19.11 | 19.08 |
| 20MHz | 1RB-High (99) | 1770 | 18.99 | 19.20 | 19.08 |
| | | 1745 | 18.93 | 19.08 | 19.05 |
| | | 1720 | 18.99 | 19.18 | 19.10 |
| | 1RB-Middle (50) | 1770 | 19.06 | 19.30 | 19.15 |
| | | 1745 | 19.00 | 19.27 | 19.05 |
| | | 1720 | 19.04 | 19.19 | 19.14 |
| | 1RB-Low (0) | 1770 | 19.02 | 19.26 | 19.15 |
| | | 1745 | 18.97 | 19.25 | 19.13 |
| | | 1720 | 19.01 | 19.24 | 19.18 |
| | 50RB-High (50) | 1770 | 19.03 | 19.03 | 19.01 |
| | | 1745 | 19.00 | 18.99 | 18.97 |
| | | 1720 | 19.00 | 18.98 | 18.99 |
| | 50RB-Middle (25) | 1770 | 19.08 | 19.11 | 19.07 |
| | | 1745 | 18.99 | 19.04 | 19.04 |
| | | 1720 | 19.01 | 19.04 | 19.01 |
| | 50RB-Low (0) | 1770 | 19.11 | 19.11 | 19.05 |
| | | 1745 | 19.07 | 18.99 | 18.97 |
| | | 1720 | 19.03 | 18.99 | 18.96 |
| | 100RB (0) | 1770 | 19.06 | 19.04 | 19.03 |
| | | 1745 | 18.97 | 18.95 | 18.94 |
| | | 1720 | 18.99 | 18.97 | 18.96 |

Power Level C1

| Band 66 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 1.4MHz | 1RB-High (5) | 1779.3 | 22.02 | 22.13 | 21.99 |
| | | 1745 | 21.94 | 22.17 | 22.05 |
| | | 1710.7 | 22.05 | 22.25 | 22.09 |
| | 1RB-Middle (3) | 1779.3 | 22.09 | 22.25 | 22.06 |
| | | 1745 | 22.01 | 22.31 | 22.11 |
| | | 1710.7 | 22.18 | 22.33 | 22.21 |
| | 1RB-Low (0) | 1779.3 | 22.14 | 22.11 | 22.07 |
| | | 1745 | 21.97 | 22.18 | 22.06 |
| | | 1710.7 | 22.07 | 22.25 | 22.15 |
| | 3RB-High (3) | 1779.3 | 22.15 | 21.95 | 22.06 |
| | | 1745 | 22.05 | 22.05 | 22.09 |
| | | 1710.7 | 22.18 | 22.01 | 22.17 |
| | 3RB-Middle (1) | 1779.3 | 22.16 | 22.07 | 22.14 |
| | | 1745 | 22.13 | 21.98 | 22.08 |
| | | 1710.7 | 22.18 | 22.16 | 22.23 |
| | 3RB-Low (0) | 1779.3 | 22.12 | 22.04 | 22.10 |
| | | 1745 | 22.07 | 21.97 | 22.06 |
| | | 1710.7 | 22.17 | 22.05 | 22.11 |
| | 6RB (0) | 1779.3 | 22.17 | 22.14 | 21.02 |
| | | 1745 | 22.12 | 22.13 | 21.06 |
| | | 1710.7 | 22.15 | 22.23 | 22.16 |
| 3MHz | 1RB-High (14) | 1778.5 | 22.09 | 22.20 | 22.02 |
| | | 1745 | 22.04 | 22.22 | 22.09 |
| | | 1711.5 | 22.13 | 22.23 | 22.19 |
| | 1RB-Middle (7) | 1778.5 | 22.07 | 22.27 | 22.18 |
| | | 1745 | 22.11 | 22.33 | 22.17 |
| | | 1711.5 | 22.21 | 22.38 | 22.29 |
| | 1RB-Low (0) | 1778.5 | 22.10 | 22.19 | 22.07 |
| | | 1745 | 22.02 | 22.27 | 22.11 |
| | | 1711.5 | 22.12 | 22.24 | 22.16 |
| | 8RB-High (7) | 1778.5 | 22.07 | 22.04 | 20.99 |
| | | 1745 | 22.02 | 22.02 | 21.04 |
| | | 1711.5 | 22.10 | 22.11 | 21.08 |
| | 8RB-Middle (4) | 1778.5 | 22.10 | 22.06 | 21.02 |
| | | 1745 | 22.05 | 22.08 | 21.00 |
| | | 1711.5 | 22.11 | 22.11 | 21.09 |
| | 8RB-Low (0) | 1778.5 | 22.10 | 22.03 | 21.02 |
| | | 1745 | 22.03 | 22.03 | 21.04 |
| | | 1711.5 | 22.11 | 22.11 | 21.09 |
| | 15RB (0) | 1778.5 | 22.10 | 22.04 | 20.98 |

| | | | | | |
|---|---|---|---|---|---|
| | | 1745 | 22.05 | 22.02 | 20.99 |
| | | 1711.5 | 22.12 | 22.09 | 21.08 |
| 5MHz | 1RB-High (24) | 1777.5 | 22.05 | 22.12 | 21.99 |
| | | 1745 | 22.00 | 22.10 | 22.08 |
| | | 1712.5 | 22.06 | 22.16 | 22.16 |
| | 1RB-Middle (12) | 1777.5 | 22.16 | 22.26 | 22.27 |
| | | 1745 | 22.13 | 22.34 | 22.17 |
| | | 1712.5 | 22.19 | 22.31 | 22.30 |
| | 1RB-Low (0) | 1777.5 | 22.09 | 22.23 | 22.07 |
| | | 1745 | 22.03 | 22.22 | 22.12 |
| | | 1712.5 | 22.10 | 22.34 | 22.13 |
| | 12RB-High (13) | 1777.5 | 22.04 | 21.90 | 20.95 |
| | | 1745 | 22.04 | 22.01 | 20.99 |
| | | 1712.5 | 22.15 | 22.10 | 21.11 |
| | 12RB-Middle (6) | 1777.5 | 22.13 | 22.05 | 21.06 |
| | | 1745 | 22.09 | 22.01 | 21.05 |
| | | 1712.5 | 22.15 | 22.09 | 21.12 |
| | 12RB-Low (0) | 1777.5 | 22.12 | 22.03 | 21.05 |
| | | 1745 | 22.04 | 22.01 | 21.04 |
| | | 1712.5 | 22.13 | 22.07 | 21.09 |
| | 25RB (0) | 1777.5 | 22.12 | 22.03 | 21.04 |
| | | 1745 | 22.09 | 22.04 | 21.00 |
| | | 1712.5 | 22.15 | 22.10 | 21.10 |
| 10MHz | 1RB-High (49) | 1775 | 22.05 | 22.20 | 21.98 |
| | | 1745 | 22.00 | 22.16 | 22.13 |
| | | 1715 | 22.02 | 22.30 | 22.11 |
| | 1RB-Middle (24) | 1775 | 22.18 | 22.33 | 22.15 |
| | | 1745 | 22.09 | 22.27 | 22.12 |
| | | 1715 | 22.17 | 22.27 | 22.12 |
| | 1RB-Low (0) | 1775 | 22.08 | 22.27 | 22.14 |
| | | 1745 | 22.03 | 22.34 | 22.09 |
| | | 1715 | 22.11 | 22.25 | 22.13 |
| | 25RB-High (25) | 1775 | 22.11 | 22.03 | 21.00 |
| | | 1745 | 22.11 | 22.09 | 21.09 |
| | | 1715 | 22.19 | 22.13 | 21.12 |
| | 25RB-Middle (12) | 1775 | 22.20 | 22.13 | 21.10 |
| | | 1745 | 22.11 | 22.07 | 21.07 |
| | | 1715 | 22.19 | 22.12 | 21.12 |
| | 25RB-Low (0) | 1775 | 22.16 | 22.12 | 21.11 |
| | | 1745 | 22.09 | 22.09 | 21.08 |
| | | 1715 | 22.15 | 22.12 | 21.09 |
| | 50RB (0) | 1775 | 22.14 | 22.09 | 21.05 |
| | | 1745 | 22.18 | 22.12 | 21.10 |
| | | 1715 | 22.16 | 22.10 | 21.14 |
| 15MHz | 1RB-High (74) | 1772.5 | 22.04 | 22.16 | 22.01 |
| | | 1745 | 22.01 | 22.15 | 22.01 |
| | | 1717.5 | 22.03 | 22.21 | 22.14 |
| | 1RB-Middle | 1772.5 | 22.05 | 22.25 | 22.14 |

| | | | | | |
|---|---|---|---|---|---|
| | (37) | 1745 | 22.00 | 22.11 | 22.14 |
| | | 1717.5 | 22.06 | 22.17 | 22.15 |
| | 1RB-Low (0) | 1772.5 | 22.08 | 22.24 | 22.16 |
| | | 1745 | 22.12 | 22.24 | 22.18 |
| | | 1717.5 | 22.10 | 22.24 | 22.20 |
| | 36RB-High (38) | 1772.5 | 22.12 | 22.03 | 21.01 |
| | | 1745 | 22.12 | 22.05 | 21.04 |
| | | 1717.5 | 22.14 | 22.06 | 21.10 |
| | 36RB-Middle (19) | 1772.5 | 22.14 | 22.10 | 21.08 |
| | | 1745 | 22.11 | 22.07 | 21.08 |
| | | 1717.5 | 22.12 | 22.04 | 21.09 |
| | 36RB-Low (0) | 1772.5 | 22.17 | 22.12 | 21.12 |
| | | 1745 | 22.10 | 22.04 | 21.07 |
| | | 1717.5 | 22.13 | 22.07 | 21.08 |
| | 75RB (0) | 1772.5 | 22.14 | 22.09 | 21.05 |
| | | 1745 | 22.13 | 22.08 | 21.05 |
| | | 1717.5 | 22.14 | 22.15 | 21.06 |
| 20MHz | 1RB-High (99) | 1770 | 21.97 | 22.08 | 22.03 |
| | | 1745 | 21.90 | 22.08 | 21.97 |
| | | 1720 | 21.94 | 22.18 | 22.05 |
| | 1RB-Middle (50) | 1770 | 22.03 | 22.24 | 22.21 |
| | | 1745 | 21.99 | 22.18 | 22.05 |
| | | 1720 | 21.97 | 22.20 | 22.08 |
| | 1RB-Low (0) | 1770 | 22.00 | 22.23 | 22.04 |
| | | 1745 | 21.92 | 22.13 | 22.13 |
| | | 1720 | 21.95 | 22.14 | 22.08 |
| | 50RB-High (50) | 1770 | 22.06 | 21.98 | 21.00 |
| | | 1745 | 22.01 | 21.97 | 20.98 |
| | | 1720 | 22.01 | 21.97 | 20.97 |
| | 50RB-Middle (25) | 1770 | 22.08 | 22.09 | 21.06 |
| | | 1745 | 22.07 | 22.05 | 20.99 |
| | | 1720 | 22.05 | 22.05 | 20.99 |
| | 50RB-Low (0) | 1770 | 22.12 | 22.10 | 21.10 |
| | | 1745 | 22.09 | 22.02 | 20.98 |
| | | 1720 | 22.06 | 21.99 | 21.00 |
| | 100RB (0) | 1770 | 22.08 | 22.05 | 21.02 |
| | | 1745 | 21.98 | 21.95 | 20.92 |
| | | 1720 | 22.00 | 21.95 | 20.95 |

Power Level A1/B1C1

| Band 71 | | | | | |
|---|---|---|---|---|---|
| Bandwidth (MHz) | RB allocation | Frequency (MHz) | Actual output power (dBm) | | |
| | RB offset | | QPSK | 16QAM | 64QAM |
| 5MHz | 1RB-High (24) | 695.5 | 24.52 | 23.70 | 22.68 |
| | | 680.5 | 24.50 | 23.73 | 22.66 |
| | | 665.5 | 24.41 | 23.64 | 22.55 |
| | 1RB-Middle (12) | 695.5 | 24.67 | 23.92 | 22.85 |
| | | 680.5 | 24.56 | 23.94 | 22.78 |
| | | 665.5 | 24.66 | 23.78 | 22.66 |
| | 1RB-Low (0) | 695.5 | 24.52 | 23.76 | 22.65 |
| | | 680.5 | 24.52 | 23.68 | 22.68 |
| | | 665.5 | 24.44 | 23.59 | 22.60 |
| | 12RB-High (13) | 695.5 | 23.62 | 22.59 | 21.62 |
| | | 680.5 | 23.58 | 22.57 | 21.54 |
| | | 665.5 | 23.49 | 22.46 | 21.46 |
| | 12RB-Middle (6) | 695.5 | 23.64 | 22.63 | 21.62 |
| | | 680.5 | 23.62 | 22.59 | 21.59 |
| | | 665.5 | 23.55 | 22.51 | 21.52 |
| | 12RB-Low (0) | 695.5 | 23.66 | 22.61 | 21.64 |
| | | 680.5 | 23.61 | 22.60 | 21.62 |
| | | 665.5 | 23.50 | 22.43 | 21.44 |
| | 25RB (0) | 695.5 | 23.67 | 22.67 | 21.61 |
| | | 680.5 | 23.63 | 22.59 | 21.60 |
| | | 665.5 | 23.53 | 22.48 | 21.48 |
| 10MHz | 1RB-High (49) | 693 | 23.73 | 22.90 | 21.77 |
| | | 680.5 | 24.58 | 23.75 | 22.69 |
| | | 668 | 24.48 | 23.68 | 22.60 |
| | 1RB-Middle (24) | 693 | 23.79 | 22.90 | 21.83 |
| | | 680.5 | 24.63 | 23.80 | 22.71 |
| | | 668 | 24.61 | 23.78 | 22.65 |
| | 1RB-Low (0) | 693 | 23.78 | 22.94 | 21.74 |
| | | 680.5 | 24.52 | 23.76 | 22.66 |
| | | 668 | 24.53 | 23.71 | 22.61 |
| | 25RB-High (25) | 693 | 22.83 | 21.73 | 20.73 |
| | | 680.5 | 23.69 | 22.57 | 21.63 |
| | | 668 | 23.63 | 22.61 | 21.60 |
| | 25RB-Middle (12) | 693 | 22.87 | 21.74 | 20.73 |
| | | 680.5 | 23.68 | 22.65 | 21.63 |
| | | 668 | 23.60 | 22.58 | 21.56 |
| | 25RB-Low (0) | 693 | 22.92 | 21.80 | 20.80 |
| | | 680.5 | 23.74 | 22.72 | 21.69 |
| | | 668 | 23.64 | 22.59 | 21.56 |
| | 50RB (0) | 693 | 22.86 | 21.76 | 20.75 |

| | | | | | |
|---|---|---|---|---|---|
| | | 680.5 | 23.75 | 22.69 | 21.69 |
| | | 668 | 23.65 | 22.61 | 21.59 |
| 15MHz | 1RB-High (74) | 690.5 | 24.63 | 23.89 | 22.72 |
| | | 680.5 | 24.63 | 23.89 | 22.69 |
| | | 670.5 | 24.59 | 23.70 | 22.65 |
| | 1RB-Middle (37) | 690.5 | 24.70 | 23.90 | 22.74 |
| | | 680.5 | 24.65 | 23.82 | 22.70 |
| | | 670.5 | 24.61 | 23.85 | 22.74 |
| | 1RB-Low (0) | 690.5 | 24.71 | 23.96 | 22.75 |
| | | 680.5 | 24.64 | 23.83 | 22.70 |
| | | 670.5 | 24.60 | 23.80 | 22.71 |
| | 36RB-High (38) | 690.5 | 23.74 | 22.68 | 21.65 |
| | | 680.5 | 23.80 | 22.73 | 21.72 |
| | | 670.5 | 23.77 | 22.67 | 21.65 |
| | 36RB-Middle (19) | 690.5 | 23.80 | 22.70 | 21.70 |
| | | 680.5 | 23.77 | 22.69 | 21.67 |
| | | 670.5 | 23.64 | 22.61 | 21.61 |
| | 36RB-Low (0) | 690.5 | 23.79 | 22.70 | 21.69 |
| | | 680.5 | 23.80 | 22.73 | 21.71 |
| | | 670.5 | 23.73 | 22.65 | 21.59 |
| | 75RB (0) | 690.5 | 23.76 | 22.68 | 21.64 |
| | | 680.5 | 23.78 | 22.74 | 21.66 |
| | | 670.5 | 23.70 | 22.64 | 21.62 |
| 20MHz | 1RB-High (99) | 688 | 24.45 | 23.67 | 22.64 |
| | | 683 | 24.41 | 23.62 | 22.60 |
| | | 673 | 24.44 | 23.75 | 22.59 |
| | 1RB-Middle (50) | 688 | 24.52 | 23.85 | 22.72 |
| | | 683 | 24.57 | 23.85 | 22.71 |
| | | 673 | 24.53 | 23.76 | 22.76 |
| | 1RB-Low (0) | 688 | 24.54 | 23.79 | 22.65 |
| | | 683 | 24.47 | 23.79 | 22.65 |
| | | 673 | 24.45 | 23.68 | 22.56 |
| | 50RB-High (50) | 688 | 23.51 | 22.48 | 21.50 |
| | | 683 | 23.63 | 22.60 | 21.60 |
| | | 673 | 23.46 | 22.44 | 21.43 |
| | 50RB-Middle (25) | 688 | 23.64 | 22.63 | 21.62 |
| | | 683 | 23.64 | 22.61 | 21.63 |
| | | 673 | 23.56 | 22.54 | 21.50 |
| | 50RB-Low (0) | 688 | 23.58 | 22.60 | 21.58 |
| | | 683 | 23.75 | 22.72 | 21.70 |
| | | 673 | 23.51 | 22.47 | 21.49 |
| | 100RB (0) | 688 | 23.59 | 22.55 | 21.54 |
| | | 683 | 23.68 | 22.64 | 21.62 |
| | | 673 | 23.48 | 22.44 | 21.43 |

### 11.4 Wi-Fi and BT Measurement result

The maximum output power of BT is 6.04dBm.
The maximum tune up of BT is 6.3dBm.

The average conducted power for Wi-Fi is as following:

**Receiver OFF+Hotspot ON**

| 802.11b(dBm) | |
|---|---|
| Channel\data rate | 5.5Mbps |
| 11(2462MHz) | 20.40 |
| 6(2437MHz) | 20.43 |
| 1(2412MHz) | 20.37 |
| Tune up | 20.50 |
| 802.11g(dBm) | |
| Channel\data rate | 6Mbps |
| 6(2437MHz) | 18.56 |
| Tune up | 19.50 |
| 11(2462MHz) | 17.44 |
| 1(2412MHz) | 17.23 |
| Tune up | 17.50 |
| 802.11n(dBm)-20MHz | |
| Channel\data rate | MCS0 |
| 6(2437MHz) | 18.56 |
| Tune up | 19.50 |
| 11(2462MHz) | 16.77 |
| 1(2412MHz) | 16.64 |
| Tune up | 17.50 |

**Receiver OFF+Hotspot OFF**

| 802.11b(dBm) | |
|---|---|
| Channel\data rate | 5.5Mbps |
| 11(2462MHz) | 19.37 |
| 6(2437MHz) | 19.38 |
| 1(2412MHz) | 19.01 |
| Tune up | 19.50 |
| | |
| 802.11g(dBm) | |
| Channel\data rate | 6Mbps |
| 6(2437MHz) | 18.56 |
| Tune up | 19.50 |
| 11(2462MHz) | 17.44 |
| 1(2412MHz) | 17.23 |
| Tune up | 17.50 |
| 802.11n(dBm)-20MHz | |
| Channel\data rate | MCS0 |
| 6(2437MHz) | 18.56 |
| Tune up | 19.50 |
| 11(2462MHz) | 16.77 |
| 1(2412MHz) | 16.64 |
| Tune up | 17.50 |

**Receiver ON& Simultaneous with cellular**

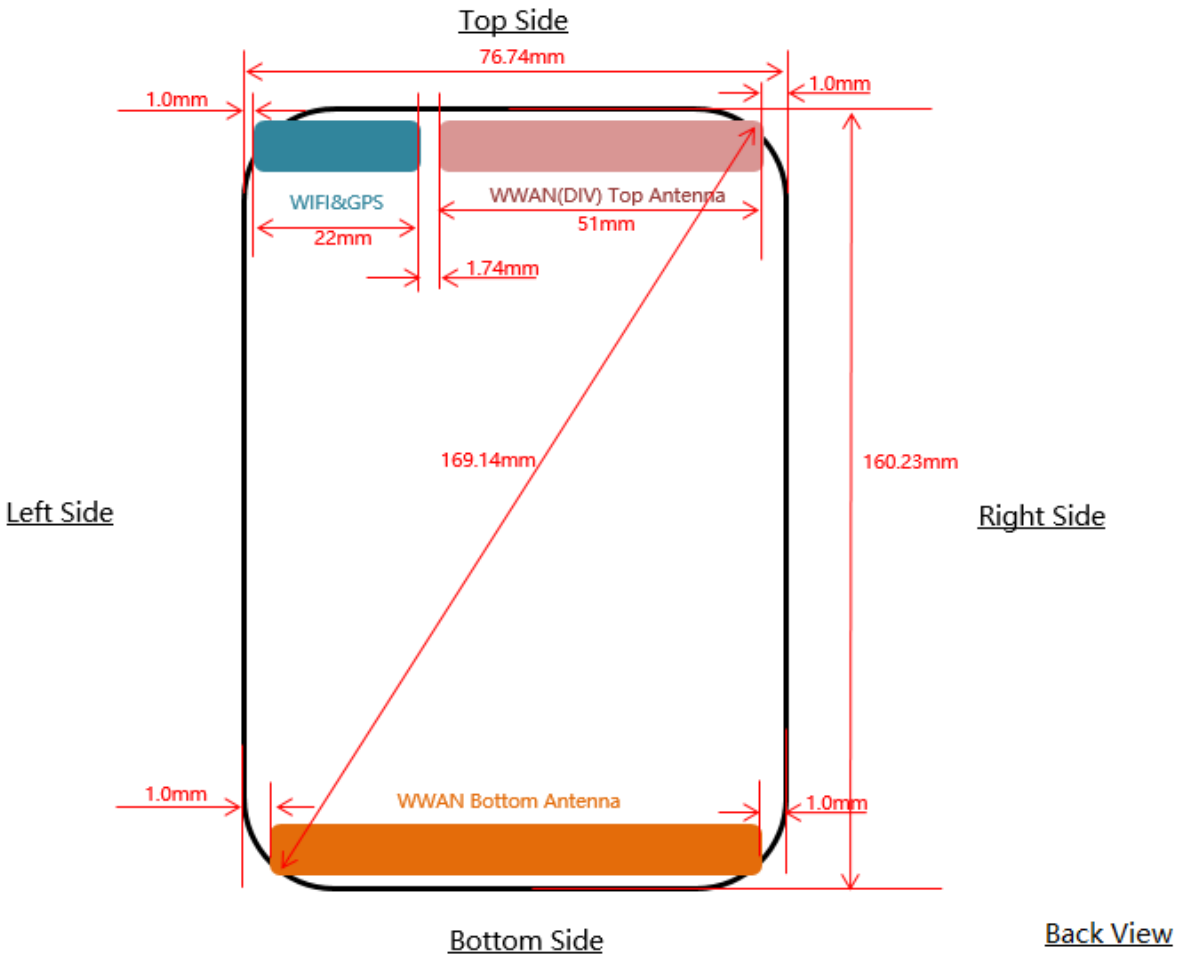
| 802.11b(dBm) | |
|---|---|
| Channel\data rate | 5.5Mbps |
| 11(2462MHz) | 17.53 |
| 6(2437MHz) | 17.58 |
| 1(2412MHz) | 17.28 |
| Tune up | 17.70 |
| 802.11g(dBm) | |
| Channel\data rate | 6Mbps |
| 11(2462MHz) | 17.44 |
| 6(2437MHz) | 17.26 |
| 1(2412MHz) | 17.23 |
| Tune up | 17.50 |
| 802.11n(dBm)-20MHz | |
| Channel\data rate | MCS0 |
| 11(2462MHz) | 16.77 |
| 6(2437MHz) | 16.87 |
| 1(2412MHz) | 16.64 |
| Tune up | 17.50 |

# 12 Simultaneous TX SAR Considerations

## 12.1 Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter.
For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

## 12.2 Transmit Antenna Separation Distances




**Picture 12.1 Antenna Locations**

## 12.3 SAR Measurement Positions

According to the KDB941225 D06 Hot Spot SAR v01, the edges with less than 2.5 cm distance to the antennas need to be tested for SAR.

| SAR measurement positions | | | | | | |
|---|---|---|---|---|---|---|
| Mode | Front | Rear | Left edge | Right edge | Top edge | Bottom edge |
| Main antenna | Yes | Yes | Yes | Yes | No | Yes |
| WLAN | Yes | Yes | No | Yes | Yes | No |

## 12.4 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.
The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

**Table 12.1: Standalone SAR test exclusion considerations**

| Band/Mode | F(GHz) | Position | SAR test exclusion threshold(mW) | RF output power | | SAR test exclusion |
|---|---|---|---|---|---|---|
| | | | | dBm | mW | |
| Bluetooth | 2.441 | Head | 9.60 | 6.3 | 4.27 | Yes |
| | | Body | 19.20 | 6.3 | 4.27 | Yes |
| 2.4GHz WLAN | 2.45 | Head | 9.58 | 20.5 | 112.2 | No |
| | | Body | 19.17 | 20.5 | 112.2 | No |

# 13 Evaluation of Simultaneous

**Table 13.1: The sum of reported SAR values for main antenna and WiFi2.4G**

| | Position | Main antenna | WiFi | Sum |
|---|---|---|---|---|
| **Highest reported SAR value for Head** | Left hand, Touch cheek | 0.6 | 0.69 | **1.29** |
| **Highest reported SAR value for Body** | Rear 10mm | 1.31 | 0.34 | **1.65(1)** |
| | Bottom 10mm | 1.5 | / | **1.5** |

**Note1：** According to the KDB 447498 D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by $(SAR1 + SAR2)^{1.5}/Ri$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.See for detail **Table 13.4**

**Table 13.2: The sum of reported SAR values for main antenna and BT**

| | Position | Main antenna | BT | Sum |
|---|---|---|---|---|
| **Maximum reported SAR value for Head** | Left hand, Touch cheek | 0.6 | 0.17[1] | **0.77** |
| **Maximum reported SAR value for Body** | Rear 10mm | 1.31 | 0.09[1] | **1.4** |
| | Bottom 10mm | 1.5 | / | **1.5** |

[1] - Estimated SAR for Bluetooth (see the table 13.3)

**Table 13.3: Estimated SAR for Bluetooth**

| Mode/Band | F (GHz) | Position | Distance (mm) | Upper limit of power * | | Estimated$_{1g}$ (W/kg) |
|---|---|---|---|---|---|---|
| | | | | dBm | mW | |
| Bluetooth | 2.441 | Head | 5 | 6.3 | 4.27 | 0.17 |
| Bluetooth | 2.441 | Body | 10 | 6.3 | 4.27 | 0.09 |
| Bluetooth | 2.441 | Body | 15 | 6.3 | 4.27 | 0.06 |

* - Maximum possible output power declared by manufacturer

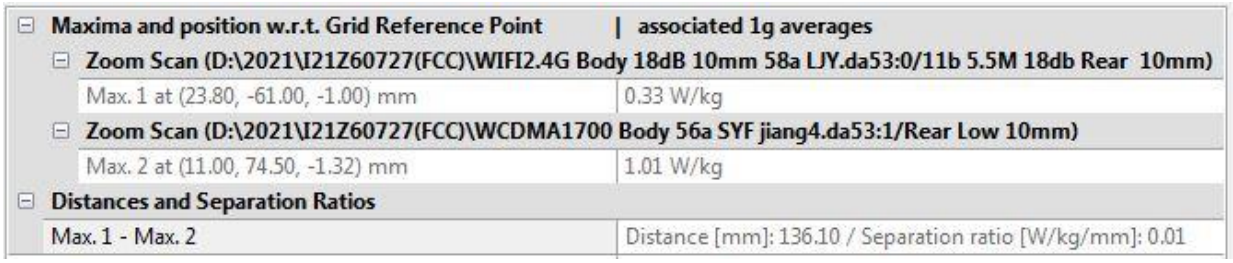
When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)]·[√f(GHz)/x] W/kg for test separation distances ≤ 50 mm;
where x = 7.5 for 1-g SAR.
When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

**Conclusion:**
According to the above tables, the sum of reported SAR values is<1.6W/kg. So the simultaneous transmission SAR with volume scans is not required.

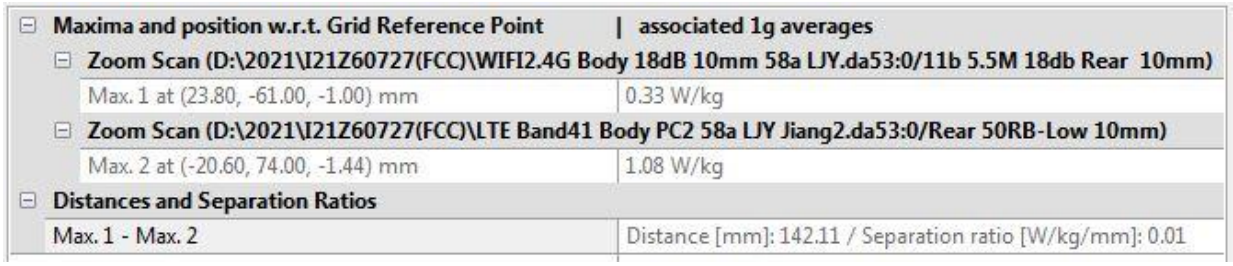
**Table 13.4: The sum of reported SAR values for main antenna and WiFi**

| | Position | band | Main antenna | WiFi | Sum (1g) | Distance (mm) | Ratio |
|---|---|---|---|---|---|---|---|
| **Highest reported SAR value for Phablet** | Rear 10mm | WCDMA1700 | 1.31 | 0.34 | **1.65** | 136.1 | 0.016 |
| | | LTE Band41 HPUE | 1.3 | 0.34 | **1.64** | 142.11 | 0.015 |

According to the KDB 447498 D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by $(SAR1 + SAR2)^{1.5}/Ri$, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.




**Picture 13.4-1 Distance evaluation for WCDMA1700 and WiFi 2.4G Body Rear 10mm**




**Picture 13.4-2 Distance evaluation for LTE Band41 HPUE and WiFi 2.4G Body Rear 10mm**

# 14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom. The distance is 10 mm or 15mm and just applied to the condition of body worn accessory.

It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-gSAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or more than 1.2W/kg.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{Target}-P_{Measured})/10}$$

Where $P_{Target}$ is the power of manufacturing upper limit;

$P_{Measured}$ is the measured power in chapter 11.

**Table 14.1: Duty Cycle**

| Mode | Duty Cycle |
|---|---|
| Speech for GSM850/1900 | 1:8..3 |
| GPRS&EGPRS for GSM850/1900 | 1:4 |
| WCDMA&LTE FDD | 1:1 |
| LTE B41 PC2 | 1:2.309 |
| LTE B41 PC3 | 1:1.58 |

## 14.1 SAR result

**H** ： The headset of other brands

**Table 14.1-1: SAR Values (GSM 850 MHz Band - Head)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 251 | 848.8 | Left | Touch | Fig.1 | 32.12 | 33.5 | 0.12 | **0.16** | 0.156 | **0.21** | 0.09 |
| 190 | 836.6 | Left | Touch | / | 32.14 | 33.5 | 0.109 | **0.15** | 0.142 | **0.19** | -0.01 |
| 128 | 824.2 | Left | Touch | / | 32.15 | 33.5 | 0.117 | **0.16** | 0.15 | **0.20** | 0.12 |
| 190 | 836.6 | Left | Tilt | / | 32.14 | 33.5 | 0.064 | **0.09** | 0.078 | **0.11** | 0.09 |
| 190 | 836.6 | Right | Touch | / | 32.14 | 33.5 | 0.107 | **0.15** | 0.141 | **0.20** | -0.06 |
| 190 | 836.6 | Right | Tilt | / | 32.14 | 33.5 | 0.053 | **0.07** | 0.066 | **0.09** | 0.1 |

**Table 14.1-2: SAR Values (GSM 850 MHz Band - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 190 | 836.6 | GPRS (2) | Front | / | 30.63 | 31.5 | 0.156 | **0.19** | 0.197 | **0.24** | -0.04 |
| 251 | 848.8 | GPRS (2) | Rear | Fig.2 | 30.61 | 31.5 | 0.253 | **0.31** | 0.326 | **0.40** | 0.13 |
| 190 | 836.6 | GPRS (2) | Rear | / | 30.63 | 31.5 | 0.249 | **0.30** | 0.32 | **0.39** | -0.07 |
| 128 | 824.2 | GPRS (2) | Rear | / | 30.64 | 31.5 | 0.245 | **0.30** | 0.315 | **0.38** | 0.09 |
| 190 | 836.6 | GPRS (2) | Left | / | 30.63 | 31.5 | 0.146 | **0.18** | 0.201 | **0.25** | -0.18 |
| 190 | 836.6 | GPRS (2) | Right | / | 30.63 | 31.5 | 0.148 | **0.18** | 0.205 | **0.25** | 0.18 |
| 190 | 836.6 | GPRS (2) | Bottom | / | 30.63 | 31.5 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |
| 251 | 848.8 | EGPRS (2) | Rear | / | 30.57 | 31.5 | 0.243 | **0.30** | 0.311 | **0.39** | -0.18 |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.1-3: SAR Values (GSM 1900 MHz Band - Head)**

| Ambient Temperature: 22.5 ºC Liquid Temperature: 21.9ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 810 | 1909.8 | Left | Touch | / | 29.28 | 31 | 0.112 | **0.17** | 0.178 | **0.26** | -0.13 |
| 661 | 1880 | Left | Touch | / | 29.36 | 31 | 0.12 | **0.18** | 0.191 | **0.28** | 0.06 |
| 512 | 1850.2 | Left | Touch | Fig.3 | 29.32 | 31 | 0.123 | **0.18** | 0.194 | **0.29** | -0.07 |
| 661 | 1880 | Left | Tilt | / | 29.36 | 31 | 0.072 | **0.11** | 0.109 | **0.16** | 0.01 |
| 661 | 1880 | Right | Touch | / | 29.36 | 31 | 0.096 | **0.14** | 0.153 | **0.22** | 0.02 |
| 661 | 1880 | Right | Tilt | / | 29.36 | 31 | 0.07 | **0.10** | 0.111 | **0.16** | -0.15 |

**Table 14.1-4: SAR Values (GSM 1900 MHz Band - Body)**

| Ambient Temperature: 22.8 ºC Liquid Temperature:21.2ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 661 | 1880 | GPRS (2) | Front | / | 27.36 | 29 | 0.247 | **0.36** | 0.472 | **0.69** | 0.1 |
| 661 | 1880 | GPRS (2) | Rear | / | 27.36 | 29 | 0.241 | **0.35** | 0.436 | **0.64** | 0.07 |
| 661 | 1880 | GPRS (2) | Left | / | 27.36 | 29 | 0.108 | **0.16** | 0.193 | **0.28** | -0.19 |
| 661 | 1880 | GPRS (2) | Right | / | 27.36 | 29 | 0.049 | **0.07** | 0.076 | **0.11** | -0.14 |
| 810 | 1909.8 | GPRS (2) | Bottom | / | 27.48 | 29 | 0.44 | **0.62** | 0.839 | **1.19** | -0.04 |
| 661 | 1880 | GPRS (2) | Bottom | / | 27.36 | 29 | 0.42 | **0.61** | 0.745 | **1.09** | -0.1 |
| 512 | 1850.2 | GPRS (2) | Bottom | Fig.4 | 27.20 | 29 | 0.473 | **0.72** | 0.867 | **1.31** | 0.05 |
| 512 | 1850.2 | EGPRS (2) | Bottom | / | 27.19 | 29 | 0.42 | **0.64** | 0.758 | **1.15** | 0.06 |
| 512 | 1850.2 | GPRS (2) | Bottom | H | 27.20 | 29 | 0.453 | **0.69** | 0.791 | **1.20** | 0.16 |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.1-5: SAR Values (WCDMA 1900 MHz Band - Head)**

| Ambient Temperature: 22.5 ºC Liquid Temperature: 21.9ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 9538 | 1907.6 | Left | Touch | / | 24.02 | 25 | 0.308 | **0.39** | 0.472 | **0.59** | 0.1 |
| 9400 | 1880 | Left | Touch | / | 24.03 | 25 | 0.301 | **0.38** | 0.467 | **0.58** | 0.05 |
| 9262 | 1852.4 | Left | Touch | Fig.5 | 24.10 | 25 | 0.313 | **0.39** | 0.484 | **0.60** | 0.08 |
| 9400 | 1880 | Left | Tilt | | 24.03 | 25 | 0.195 | **0.24** | 0.289 | **0.36** | 0.13 |
| 9400 | 1880 | Right | Touch | | 24.03 | 25 | 0.271 | **0.34** | 0.423 | **0.53** | 0.03 |
| 9400 | 1880 | Right | Tilt | / | 24.03 | 25 | 0.237 | **0.30** | 0.367 | **0.46** | -0.04 |

**Table 14.1-6: SAR Values (WCDMA 1900 MHz Band - Body)**

| Ambient Temperature: 23 ºC | | | | | | Liquid Temperature: 22.5ºC | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 9538 | 1907.6 | Front | / | 22.91 | 24 | 0.44 | **0.57** | 0.781 | **1.00** | -0.01 |
| 9400 | 1880 | Front | / | 22.95 | 24 | 0.439 | **0.56** | 0.78 | **0.99** | -0.14 |
| 9262 | 1852.4 | Front | / | 22.93 | 24 | 0.437 | **0.56** | 0.776 | **0.99** | 0.09 |
| 9538 | 1907.6 | Rear | / | 22.91 | 24 | 0.476 | **0.61** | 0.825 | **1.06** | 0.09 |
| 9400 | 1880 | Rear | / | 22.95 | 24 | 0.457 | **0.58** | 0.811 | **1.03** | -0.14 |
| 9262 | 1852.4 | Rear | / | 22.93 | 24 | 0.423 | **0.54** | 0.756 | **0.97** | -0.05 |
| 9400 | 1880 | Left | / | 22.95 | 24 | 0.207 | **0.26** | 0.359 | **0.46** | 0.1 |
| 9400 | 1880 | Right | / | 22.95 | 24 | 0.096 | **0.12** | 0.169 | **0.22** | 0.04 |
| 9538 | 1907.6 | Bottom | / | 22.91 | 24 | 0.567 | **0.73** | 1.03 | **1.32** | 0.09 |
| 9400 | 1880 | Bottom | / | 22.95 | 24 | 0.564 | **0.72** | 1.01 | **1.29** | 0.01 |
| 9262 | 1852.4 | Bottom | Fig.6 | 22.93 | 24 | 0.612 | **0.78** | 1.11 | **1.42** | 0.08 |
| 9262 | 1852.4 | Bottom | H | 22.93 | 24 | 0.562 | **0.72** | 1.02 | **1.30** | 0.09 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.1-7: SAR Values (WCDMA 1700 MHz Band - Head)**

| Ambient Temperature: 22.5 ºC | | | | | | | Liquid Temperature: 21.9ºC | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 1412 | 1732.4 | Left | Touch | / | 23.81 | 25 | 0.154 | **0.20** | 0.226 | **0.30** | -0.05 |
| 1412 | 1732.4 | Left | Tilt | / | 23.81 | 25 | 0.109 | **0.14** | 0.16 | **0.21** | -0.07 |
| 1513 | 1752.6 | Right | Touch | / | 23.85 | 25 | 0.206 | **0.27** | 0.31 | **0.40** | 0.01 |
| 1412 | 1732.4 | Right | Touch | / | 23.81 | 25 | 0.202 | **0.27** | 0.305 | **0.40** | 0.02 |
| 1312 | 1712.4 | Right | Touch | Fig.7 | 23.89 | 25 | 0.21 | **0.27** | 0.319 | **0.41** | -0.05 |
| 1412 | 1732.4 | Right | Tilt | / | 23.81 | 25 | 0.1 | **0.13** | 0.145 | **0.19** | 0.05 |

**Table 14.1-8: SAR Values (WCDMA 1700 MHz Band - Body)**

| Ambient Temperature: 23 ºC | | | | Liquid Temperature: 22.5ºC | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 1412 | 1732.5 | Front | / | 19.90 | 21 | 0.27 | **0.35** | 0.49 | **0.63** | 0.03 |
| 1513 | 1752.6 | Rear | / | 19.88 | 21 | 0.349 | **0.45** | 0.656 | **0.85** | -0.05 |
| 1412 | 1732.5 | Rear | / | 19.90 | 21 | 0.434 | **0.56** | 0.814 | **1.05** | -0.18 |
| 1312 | 1712.4 | Rear | / | 19.88 | 21 | 0.532 | **0.69** | 1.01 | **1.31** | 0.05 |
| 1412 | 1732.5 | Left | / | 19.90 | 21 | 0.049 | **0.06** | 0.08 | **0.10** | 0.01 |
| 1412 | 1732.5 | Right | / | 19.90 | 21 | 0.056 | **0.07** | 0.094 | **0.12** | -0.14 |
| 1513 | 1752.6 | Bottom | / | 19.88 | 21 | 0.455 | **0.59** | 0.842 | **1.09** | -0.02 |
| 1412 | 1732.5 | Bottom | / | 19.90 | 21 | 0.524 | **0.68** | 0.915 | **1.18** | -0.18 |
| 1312 | 1712.4 | Bottom | Fig.8 | 19.88 | 21 | 0.626 | **0.81** | 1.16 | **1.50** | 0.05 |
| 1312 | 1712.4 | Bottom | H | 19.88 | 21 | 0.588 | **0.77** | 0.983 | **1.27** | 0.04 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.1-9: SAR Values (WCDMA 1700 MHz Band - Body)**

| Ambient Temperature: 23 ºC | | | | Liquid Temperature: 22.5ºC | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 1412 | 1732.4 | Front | / | 22.91 | 23 | 0.211 | **0.22** | 0.35 | **0.36** | -0.12 |
| 1513 | 1752.6 | Rear | / | 22.90 | 23 | 0.318 | **0.33** | 0.557 | **0.57** | 0.1 |
| 1412 | 1732.4 | Rear | / | 22.91 | 23 | 0.39 | **0.40** | 0.688 | **0.70** | 0.02 |
| 1312 | 1712.4 | Rear | Fig.9 | 22.89 | 23 | 0.492 | **0.50** | 0.872 | **0.89** | 0.08 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.1-10: SAR Values (WCDMA 850 MHz Band - Head)**

| Ambient Temperature: 23.3 ºC | | | | | Liquid Temperature: 22.8ºC | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 4183 | 836.6 | Left | Touch | / | 22.93 | 24 | 0.165 | **0.21** | 0.213 | **0.27** | -0.09 |
| 4183 | 836.6 | Left | Tilt | / | 22.93 | 24 | 0.09 | **0.12** | 0.109 | **0.14** | 0.14 |
| 4233 | 846.6 | Right | Touch | / | 22.95 | 24 | 0.167 | **0.21** | 0.21 | **0.27** | 0.02 |
| 4183 | 836.6 | Right | Touch | Fig.10 | 22.93 | 24 | 0.175 | **0.22** | 0.224 | **0.29** | -0.01 |
| 4132 | 826.4 | Right | Touch | / | 22.82 | 24 | 0.099 | **0.13** | 0.128 | **0.17** | -0.18 |
| 4183 | 836.6 | Right | Tilt | / | 22.93 | 24 | 0.118 | **0.15** | 0.145 | **0.19** | 0.05 |

**Table 14.1-11: SAR Values (WCDMA 850 MHz Band - Body)**

| Ambient Temperature: 23.3 ℃ Liquid Temperature: 22.8℃ | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 4183 | 836.6 | Front | / | 22.93 | 24 | 0.155 | **0.20** | 0.201 | **0.26** | 0.03 |
| 4233 | 846.6 | Rear | / | 22.95 | 24 | 0.237 | **0.30** | 0.308 | **0.39** | 0.13 |
| 4183 | 836.6 | Rear | / | 22.93 | 24 | 0.219 | **0.28** | 0.283 | **0.36** | -0.1 |
| 4132 | 826.4 | Rear | Fig.11 | 22.82 | 24 | 0.269 | **0.35** | 0.347 | **0.46** | 0.01 |
| 4183 | 836.6 | Left | / | 22.93 | 24 | 0.149 | **0.19** | 0.211 | **0.27** | 0.11 |
| 4183 | 836.6 | Right | / | 22.93 | 24 | 0.141 | **0.18** | 0.197 | **0.25** | -0.17 |
| 4183 | 836.6 | Bottom | / | 22.93 | 24 | <0.01 | **<0.01** | <0.01 | **<0.01** | / |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.1-12: SAR Values (LTE Band12 - Head)**

| Ambient Temperature: 23.3 ℃ Liquid Temperature: 22.8℃ | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 23060 | 704 | 1RB_Mid | Left | Touch | / | 24.70 | 25.5 | 0.235 | **0.28** | 0.295 | **0.35** | -0.07 |
| 23060 | 704 | 1RB_Mid | Left | Tilt | / | 24.70 | 25.5 | 0.148 | **0.18** | 0.179 | **0.22** | -0.19 |
| 23060 | 704 | 1RB_Mid | Right | Touch | Fig.12 | 24.70 | 25.5 | 0.251 | **0.30** | 0.315 | **0.38** | 0.14 |
| 23060 | 704 | 1RB_Mid | Right | Tilt | / | 24.70 | 25.5 | 0.162 | **0.19** | 0.198 | **0.24** | 0.02 |
| 23130 | 711 | 25RB_Low | Left | Touch | / | 23.74 | 24.5 | 0.191 | **0.23** | 0.239 | **0.28** | -0.15 |
| 23130 | 711 | 25RB_Low | Left | Tilt | / | 23.74 | 24.5 | 0.123 | **0.15** | 0.149 | **0.18** | 0.12 |
| 23130 | 711 | 25RB_Low | Right | Touch | / | 23.74 | 24.5 | 0.196 | **0.23** | 0.244 | **0.29** | -0.1 |
| 23130 | 711 | 25RB_Low | Right | Tilt | / | 23.74 | 24.5 | 0.126 | **0.15** | 0.154 | **0.18** | -0.1 |

Note1: The LTE mode is QPSK_10MHz.

**Table 14.1-13: SAR Values (LTE Band12 - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 23060 | 704 | 1RB_Mid | Front | / | 24.62 | 25.5 | 0.221 | **0.27** | 0.278 | **0.34** | 0.12 |
| 23060 | 704 | 1RB_Mid | Rear | Fig.13 | 24.62 | 25.5 | 0.351 | **0.43** | 0.445 | **0.54** | 0.07 |
| 23060 | 704 | 1RB_Mid | Left | / | 24.62 | 25.5 | 0.24 | **0.29** | 0.323 | **0.40** | -0.15 |
| 23060 | 704 | 1RB_Mid | Right | / | 24.62 | 25.5 | 0.26 | **0.32** | 0.354 | **0.43** | 0.11 |
| 23060 | 704 | 1RB_Mid | Bottom | / | 24.62 | 25.5 | 0.021 | **0.03** | 0.035 | **0.04** | -0.08 |
| 23130 | 711 | 25RB_Low | Front | / | 23.74 | 24.5 | 0.17 | **0.20** | 0.215 | **0.26** | 0.14 |
| 23130 | 711 | 25RB_Low | Rear | / | 23.74 | 24.5 | 0.266 | **0.32** | 0.34 | **0.41** | 0.09 |
| 23130 | 711 | 25RB_Low | Left | / | 23.74 | 24.5 | 0.193 | **0.23** | 0.264 | **0.31** | 0.18 |
| 23130 | 711 | 25RB_Low | Right | / | 23.74 | 24.5 | 0.207 | **0.25** | 0.284 | **0.34** | -0.03 |
| 23130 | 711 | 25RB_Low | Bottom | / | 23.74 | 24.5 | ＜0.01 | ＜0.01 | ＜0.01 | ＜0.01 | / |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

**Table 14.1-14: SAR Values (LTE Band13 - Head)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 23230 | 782 | 1RB_Mid | Left | Touch | / | 24.25 | 25.5 | 0.221 | **0.29** | 0.282 | **0.38** | 0.05 |
| 23230 | 782 | 1RB_Mid | Left | Tilt | / | 24.25 | 25.5 | 0.147 | **0.20** | 0.18 | **0.24** | 0.07 |
| 23230 | 782 | 1RB_Mid | Right | Touch | Fig.14 | 24.25 | 25.5 | 0.244 | **0.33** | 0.309 | **0.41** | 0.17 |
| 23230 | 782 | 1RB_Mid | Right | Tilt | / | 24.25 | 25.5 | 0.188 | **0.25** | 0.23 | **0.31** | 0.02 |
| 23230 | 782 | 25RB_Mid | Left | Touch | / | 23.24 | 24.5 | 0.168 | **0.22** | 0.215 | **0.29** | 0.15 |
| 23230 | 782 | 25RB_Mid | Left | Tilt | / | 23.24 | 24.5 | 0.119 | **0.16** | 0.145 | **0.19** | -0.06 |
| 23230 | 782 | 25RB_Mid | Right | Touch | / | 23.24 | 24.5 | 0.184 | **0.25** | 0.232 | **0.31** | -0.04 |
| 23230 | 782 | 25RB_Mid | Right | Tilt | / | 23.24 | 24.5 | 0.139 | **0.19** | 0.171 | **0.23** | -0.04 |

Note1: The LTE mode is QPSK_10MHz.

**Table 14.1-15: SAR Values (LTE Band13 - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 23230 | 782 | 1RB_Mid | Front | / | 24.25 | 25.5 | 0.26 | **0.35** | 0.328 | **0.44** | -0.16 |
| 23230 | 782 | 1RB_Mid | Rear | Fig.15 | 24.25 | 25.5 | 0.401 | **0.53** | 0.509 | **0.68** | -0.03 |
| 23230 | 782 | 1RB_Mid | Left | / | 24.25 | 25.5 | 0.275 | **0.37** | 0.374 | **0.50** | -0.04 |
| 23230 | 782 | 1RB_Mid | Right | / | 24.25 | 25.5 | 0.303 | **0.40** | 0.409 | **0.55** | 0.05 |
| 23230 | 782 | 1RB_Mid | Bottom | / | 24.25 | 25.5 | 0.034 | **0.05** | 0.053 | **0.07** | 0.09 |
| 23230 | 782 | 25RB_Mid | Front | / | 23.24 | 24.5 | 0.201 | **0.27** | 0.253 | **0.34** | -0.14 |
| 23230 | 782 | 25RB_Mid | Rear | / | 23.24 | 24.5 | 0.312 | **0.42** | 0.395 | **0.53** | 0.13 |
| 23230 | 782 | 25RB_Mid | Left | / | 23.24 | 24.5 | 0.219 | **0.29** | 0.3 | **0.40** | 0.07 |
| 23230 | 782 | 25RB_Mid | Right | / | 23.24 | 24.5 | 0.237 | **0.32** | 0.323 | **0.43** | -0.07 |
| 23230 | 782 | 25RB_Mid | Bottom | / | 23.24 | 24.5 | 0.025 | **0.03** | 0.037 | **0.05** | 0.09 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

**Table 14.1-16: SAR Values (LTE Band25 - Head)**

| Ambient Temperature: 22.5 ºC Liquid Temperature: 21.9ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 26140 | 1860 | 1RB_Mid | Left | Touch | Fig.16 | 24.10 | 25 | 0.304 | **0.37** | 0.469 | **0.58** | -0.05 |
| 26140 | 1860 | 1RB_Mid | Left | Tilt | / | 24.10 | 25 | 0.19 | **0.23** | 0.285 | **0.35** | -0.03 |
| 26140 | 1860 | 1RB_Mid | Right | Touch | | 24.10 | 25 | 0.259 | **0.32** | 0.403 | **0.50** | 0.01 |
| 26140 | 1860 | 1RB_Mid | Right | Tilt | / | 24.10 | 25 | 0.196 | **0.24** | 0.3 | **0.37** | -0.16 |
| 26140 | 1860 | 50RB_ Mid | Left | Touch | / | 23.15 | 24 | 0.216 | **0.26** | 0.331 | **0.40** | 0.01 |
| 26140 | 1860 | 50RB_ Mid | Left | Tilt | / | 23.15 | 24 | 0.126 | **0.15** | 0.189 | **0.23** | 0.15 |
| 26140 | 1860 | 50RB_ Mid | Right | Touch | / | 23.15 | 24 | 0.193 | **0.23** | 0.294 | **0.36** | 0.05 |
| 26140 | 1860 | 50RB_ Mid | Right | Tilt | / | 23.15 | 24 | 0.147 | **0.18** | 0.224 | **0.27** | -0.13 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-17: SAR Values (LTE Band25 - Body)**

| Ambient Temperature: 23 °C Liquid Temperature: 22.5°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 26140 | 1860 | 1RB_Mid | Front | / | 22.36 | 23 | 0.317 | **0.37** | 0.544 | **0.63** | -0.05 |
| 26140 | 1860 | 1RB_Mid | Rear | / | 22.36 | 23 | 0.326 | **0.38** | 0.556 | **0.64** | 0.05 |
| 26140 | 1860 | 1RB_Mid | Left | / | 22.36 | 23 | 0.146 | **0.17** | 0.239 | **0.28** | 0.16 |
| 26140 | 1860 | 1RB_Mid | Right | / | 22.36 | 23 | 0.069 | **0.08** | 0.116 | **0.13** | 0.14 |
| 26590 | 1905 | 1RB_Mid | Bottom | / | 22.32 | 23 | 0.424 | **0.50** | 0.761 | **0.89** | 0.15 |
| 26365 | 1882.5 | 1RB_Mid | Bottom | / | 22.27 | 23 | 0.439 | **0.52** | 0.789 | **0.93** | -0.14 |
| 26140 | 1860 | 1RB_Mid | Bottom | Fig.17 | 22.36 | 23 | 0.484 | **0.56** | 0.874 | **1.01** | -0.15 |
| 26140 | 1860 | 50RB_ Mid | Front | / | 22.32 | 23 | 0.309 | **0.36** | 0.528 | **0.62** | 0.08 |
| 26140 | 1860 | 50RB_ Mid | Rear | / | 22.32 | 23 | 0.319 | **0.37** | 0.541 | **0.63** | -0.14 |
| 26140 | 1860 | 50RB_ Mid | Left | / | 22.32 | 23 | 0.142 | **0.17** | 0.234 | **0.27** | 0.15 |
| 26140 | 1860 | 50RB_ Mid | Right | / | 22.32 | 23 | 0.068 | **0.08** | 0.116 | **0.14** | 0.18 |
| 26590 | 1905 | 50RB_ Mid | Bottom | / | 22.31 | 23 | 0.417 | **0.49** | 0.747 | **0.88** | -0.04 |
| 26365 | 1882.5 | 50RB_ Mid | Bottom | / | 22.24 | 23 | 0.437 | **0.52** | 0.783 | **0.93** | 0.11 |
| 26140 | 1860 | 50RB_ Mid | Bottom | / | 22.32 | 23 | 0.475 | **0.56** | 0.848 | **0.99** | 0.08 |
| 26140 | 1860 | 100RB | Bottom | / | 22.25 | 23 | 0.456 | **0.54** | 0.837 | **0.99** | -0.19 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-18: SAR Values (LTE Band25 - Body)**

| Ambient Temperature: 23 °C Liquid Temperature: 22.5°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 26140 | 1860 | 1RB_Mid | Front | Fig.18 | 23.14 | 24 | 0.201 | **0.25** | 0.34 | **0.41** | -0.04 |
| 26140 | 1860 | 1RB_Mid | Rear | / | 23.14 | 24 | 0.198 | **0.24** | 0.333 | **0.41** | -0.17 |
| 26140 | 1860 | 50RB_ Mid | Front | / | 23.18 | 24 | 0.198 | **0.24** | 0.334 | **0.40** | 0.07 |
| 26140 | 1860 | 50RB_ Mid | Rear | / | 23.18 | 24 | 0.193 | **0.23** | 0.325 | **0.39** | 0.14 |

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-19: SAR Values (LTE Band26 - Head)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 26865 | 831.5 | 1RB_Low | Left | Touch | Fig.19 | 24.28 | 25.5 | 0.234 | **0.31** | 0.297 | **0.39** | 0.05 |
| 26865 | 831.5 | 1RB_Low | Left | Tilt | / | 24.28 | 25.5 | 0.143 | **0.19** | 0.173 | **0.23** | 0.05 |
| 26865 | 831.5 | 1RB_Low | Right | Touch | / | 24.28 | 25.5 | 0.218 | **0.29** | 0.277 | **0.37** | 0.04 |
| 26865 | 831.5 | 1RB_Low | Right | Tilt | / | 24.28 | 25.5 | 0.137 | **0.18** | 0.168 | **0.22** | -0.08 |
| 26865 | 831.5 | 36RB_Low | Left | Touch | / | 23.34 | 24.5 | 0.19 | **0.25** | 0.242 | **0.32** | 0.15 |
| 26865 | 831.5 | 36RB_Low | Left | Tilt | / | 23.34 | 24.5 | 0.116 | **0.15** | 0.142 | **0.19** | 0.13 |
| 26865 | 831.5 | 36RB_Low | Right | Touch | / | 23.34 | 24.5 | 0.175 | **0.23** | 0.222 | **0.29** | 0.08 |
| 26865 | 831.5 | 36RB_Low | Right | Tilt | / | 23.34 | 24.5 | 0.11 | **0.14** | 0.136 | **0.18** | -0.11 |

Note1: The LTE mode is QPSK_15MHz.

**Table 14.1-20: SAR Values (LTE Band26 - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 26865 | 831.5 | 1RB_Low | Front | / | 24.28 | 25.5 | 0.133 | **0.18** | 0.168 | **0.22** | -0.17 |
| 26865 | 831.5 | 1RB_Low | Rear | Fig.20 | 24.28 | 25.5 | 0.358 | **0.47** | 0.457 | **0.61** | 0.04 |
| 26865 | 831.5 | 1RB_Low | Left | / | 24.28 | 25.5 | 0.24 | **0.32** | 0.334 | **0.44** | 0.11 |
| 26865 | 831.5 | 1RB_Low | Right | / | 24.28 | 25.5 | 0.228 | **0.30** | 0.315 | **0.42** | -0.18 |
| 26865 | 831.5 | 1RB_Low | Bottom | / | 24.28 | 25.5 | 0.03 | **0.04** | 0.044 | **0.06** | 0.16 |
| 26865 | 831.5 | 36RB_Low | Front | / | 23.34 | 24.5 | 0.201 | **0.26** | 0.255 | **0.33** | -0.05 |
| 26865 | 831.5 | 36RB_Low | Rear | / | 23.34 | 24.5 | 0.302 | **0.39** | 0.389 | **0.51** | -0.18 |
| 26865 | 831.5 | 36RB_Low | Left | / | 23.34 | 24.5 | 0.185 | **0.24** | 0.256 | **0.33** | -0.07 |
| 26865 | 831.5 | 36RB_Low | Right | / | 23.34 | 24.5 | 0.178 | **0.23** | 0.249 | **0.33** | 0.19 |
| 26865 | 831.5 | 36RB_Low | Bottom | / | 23.34 | 24.5 | ＜0.01 | ＜0.01 | ＜0.01 | ＜0.01 | / |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_15MHz.

**Table 14.1-21: SAR Values (LTE Band41 - Head)**

| Ambient Temperature: 22.5 ºC Liquid Temperature: 21.9ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Left | Touch | / | 23.55 | 24 | 0.054 | **0.06** | 0.072 | **0.08** | 0.09 |
| 40620 | 2593 | 1RB-Low | Left | Tilt | / | 23.55 | 24 | 0.032 | **0.04** | 0.045 | **0.05** | -0.17 |
| 40620 | 2593 | 1RB-Low | Right | Touch | Fig.21 | 23.55 | 24 | 0.052 | **0.06** | 0.096 | **0.11** | -0.12 |
| 40620 | 2593 | 1RB-Low | Right | Tilt | / | 23.55 | 24 | 0.023 | **0.03** | 0.045 | **0.05** | 0.19 |
| 40620 | 2593 | 50RB-Low | Left | Touch | / | 22.50 | 23 | 0.041 | **0.05** | 0.053 | **0.06** | 0.15 |
| 40620 | 2593 | 50RB-Low | Left | Tilt | / | 22.50 | 23 | 0.024 | **0.03** | 0.033 | **0.04** | -0.16 |
| 40620 | 2593 | 50RB-Low | Right | Touch | / | 22.50 | 23 | 0.045 | **0.05** | 0.083 | **0.09** | 0.05 |
| 40620 | 2593 | 50RB-Low | Right | Tilt | / | 22.50 | 23 | 0.018 | **0.02** | 0.034 | **0.04** | 0 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-22: SAR Values (LTE Band41 - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Front | / | 22.54 | 23 | 0.194 | **0.22** | 0.413 | **0.46** | -0.04 |
| 41490 | 2680 | 1RB-Low | Rear | / | 22.53 | 23 | 0.422 | **0.47** | 0.942 | **1.05** | 0.07 |
| 41055 | 2636.5 | 1RB-Low | Rear | / | 22.31 | 23 | 0.453 | **0.53** | 1.01 | **1.18** | -0.02 |
| 40620 | 2593 | 1RB-Low | Rear | / | 22.54 | 23 | 0.34 | **0.38** | 0.762 | **0.85** | -0.16 |
| 40185 | 2549.5 | 1RB-Low | Rear | / | 22.42 | 23 | 0.245 | **0.28** | 0.545 | **0.62** | 0.08 |
| 39750 | 2506 | 1RB-Low | Rear | / | 22.33 | 23 | 0.18 | **0.21** | 0.394 | **0.46** | 0.19 |
| 40620 | 2593 | 1RB-Low | Left | / | 22.54 | 23 | 0.05 | **0.06** | 0.092 | **0.10** | -0.09 |
| 40620 | 2593 | 1RB-Low | Right | / | 22.54 | 23 | 0.05 | **0.06** | 0.09 | **0.10** | -0.13 |
| 40620 | 2593 | 1RB-Low | Bottom | / | 22.54 | 23 | 0.293 | **0.33** | 0.642 | **0.71** | 0.02 |
| 40620 | 2593 | 50RB-Low | Front | / | 22.54 | 23 | 0.199 | **0.22** | 0.425 | **0.47** | -0.02 |
| 41490 | 2680 | 50RB-Low | Rear | / | 22.48 | 23 | 0.415 | **0.47** | 0.933 | **1.05** | -0.16 |
| 41055 | 2636.5 | 50RB-Low | Rear | Fig.22 | 22.33 | 23 | 0.463 | **0.54** | 1.04 | **1.21** | 0.04 |
| 40620 | 2593 | 50RB-Low | Rear | / | 22.49 | 23 | 0.353 | **0.40** | 0.791 | **0.89** | -0.04 |
| 40185 | 2549.5 | 50RB-Low | Rear | / | 22.35 | 23 | 0.257 | **0.30** | 0.572 | **0.66** | 0.09 |
| 39750 | 2506 | 50RB-Low | Rear | / | 22.25 | 23 | 0.178 | **0.21** | 0.392 | **0.47** | -0.17 |
| 40620 | 2593 | 50RB-Low | Left | / | 22.54 | 23 | 0.048 | **0.05** | 0.087 | **0.10** | -0.18 |
| 40620 | 2593 | 50RB-Low | Right | / | 22.54 | 23 | 0.052 | **0.06** | 0.092 | **0.10** | -0.15 |
| 40620 | 2593 | 50RB-Low | Bottom | / | 22.49 | 23 | 0.307 | **0.35** | 0.675 | **0.76** | -0.14 |
| 41490 | 2680 | 100RB | Rear | / | 22.45 | 23 | 0.401 | **0.46** | 0.898 | **1.02** | -0.18 |
| 41055 | 2636.5 | 50RB-Low | Rear | H | 22.33 | 23 | 0.405 | **0.47** | 0.869 | **1.01** | 0.15 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-23: SAR Values (LTE Band41 - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Front | / | 23.55 | 24 | 0.113 | **0.13** | 0.223 | **0.25** | 0.03 |
| 40620 | 2593 | 1RB-Low | Rear | Fig.23 | 23.55 | 24 | 0.22 | **0.24** | 0.452 | **0.50** | 0.08 |
| 40620 | 2593 | 50RB-Low | Front | / | 22.50 | 23 | 0.092 | **0.10** | 0.182 | **0.20** | 0.12 |
| 40620 | 2593 | 50RB-Low | Rear | / | 22.50 | 23 | 0.179 | **0.20** | 0.367 | **0.41** | -0.09 |

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-24: SAR Values (LTE Band41 HPUE - Head)**

| Ambient Temperature: 22.5 ºC Liquid Temperature: 21.9ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Left | Touch | / | 26.41 | 27 | 0.052 | **0.06** | 0.091 | **0.10** | 0.02 |
| 40620 | 2593 | 1RB-Low | Left | Tilt | / | 26.41 | 27 | 0.027 | **0.03** | 0.05 | **0.06** | -0.03 |
| 40620 | 2593 | 1RB-Low | Right | Touch | Fig.24 | 26.41 | 27 | 0.075 | **0.09** | 0.135 | **0.15** | 0.08 |
| 40620 | 2593 | 1RB-Low | Right | Tilt | / | 26.41 | 27 | 0.033 | **0.04** | 0.06 | **0.07** | 0.03 |
| 40620 | 2593 | 50RB-Low | Left | Touch | / | 25.55 | 26 | 0.037 | **0.04** | 0.065 | **0.07** | 0.19 |
| 40620 | 2593 | 50RB-Low | Left | Tilt | / | 25.55 | 26 | 0.031 | **0.03** | 0.053 | **0.06** | 0.12 |
| 40620 | 2593 | 50RB-Low | Right | Touch | / | 25.55 | 26 | 0.062 | **0.07** | 0.11 | **0.12** | 0.19 |
| 40620 | 2593 | 50RB-Low | Right | Tilt | / | 25.55 | 26 | 0.024 | **0.03** | 0.045 | **0.05** | -0.07 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-25: SAR Values (LTE Band41 HPUE - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Front | / | 24.41 | 25 | 0.194 | **0.22** | 0.425 | **0.49** | -0.1 |
| 41490 | 2680 | 1RB-Low | Rear | / | 24.39 | 25 | 0.419 | **0.48** | 1.03 | **1.19** | 0.14 |
| 41055 | 2636.5 | 1RB-Low | Rear | / | 24.18 | 25 | 0.468 | **0.57** | 1.04 | **1.26** | 0.05 |
| 40620 | 2593 | 1RB-Low | Rear | / | 24.41 | 25 | 0.358 | **0.41** | 0.832 | **0.95** | 0.16 |
| 40185 | 2549.5 | 1RB-Low | Rear | / | 24.33 | 25 | 0.247 | **0.29** | 0.543 | **0.63** | -0.05 |
| 39750 | 2506 | 1RB-Low | Rear | / | 24.23 | 25 | 0.178 | **0.21** | 0.387 | **0.46** | 0.12 |
| 40620 | 2593 | 1RB-Low | Left | / | 24.41 | 25 | 0.051 | **0.06** | 0.099 | **0.11** | 0.19 |
| 40620 | 2593 | 1RB-Low | Right | / | 24.41 | 25 | 0.048 | **0.05** | 0.088 | **0.10** | 0.02 |
| 40620 | 2593 | 1RB-Low | Bottom | / | 24.41 | 25 | 0.291 | **0.33** | 0.63 | **0.72** | 0.18 |
| 40620 | 2593 | 50RB-Low | Front | / | 24.37 | 25 | 0.201 | **0.23** | 0.443 | **0.51** | -0.03 |
| 41490 | 2680 | 50RB-Low | Rear | / | 24.34 | 25 | 0.416 | **0.48** | 1.02 | **1.19** | -0.01 |
| 41055 | 2636.5 | 50RB-Low | Rear | Fig.25 | 24.20 | 25 | 0.477 | **0.57** | 1.08 | **1.30** | -0.09 |
| 40620 | 2593 | 50RB-Low | Rear | / | 24.37 | 25 | 0.371 | **0.43** | 0.863 | **1.00** | 0.08 |
| 40185 | 2549.5 | 50RB-Low | Rear | / | 24.25 | 25 | 0.259 | **0.31** | 0.571 | **0.68** | -0.03 |
| 39750 | 2506 | 50RB-Low | Rear | / | 24.12 | 25 | 0.177 | **0.22** | 0.388 | **0.48** | 0.06 |
| 40620 | 2593 | 50RB-Low | Left | / | 24.37 | 25 | 0.049 | **0.06** | 0.095 | **0.11** | 0.11 |
| 40620 | 2593 | 50RB-Low | Right | / | 24.37 | 25 | 0.05 | **0.06** | 0.09 | **0.10** | 0.07 |
| 40620 | 2593 | 50RB-Low | Bottom | / | 24.37 | 25 | 0.303 | **0.35** | 0.666 | **0.77** | 0.02 |
| 40620 | 2593 | 100RB | Rear | / | 24.32 | 25 | 0.368 | **0.43** | 0.865 | **1.01** | -0.09 |
| 41055 | 2636.5 | 50RB-Low | Rear | H | 24.20 | 25 | 0.423 | **0.51** | 0.924 | **1.11** | 0.07 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-26: SAR Values (LTE Band41 HPUE - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Front | / | 26.41 | 27 | 0.186 | **0.21** | 0.363 | **0.42** | -0.05 |
| 41490 | 2680 | 1RB-Low | Rear | / | 26.31 | 27 | 0.356 | **0.42** | 0.736 | **0.86** | 0.16 |
| 41055 | 2636.5 | 1RB-Low | Rear | Fig.26 | 26.13 | 27 | 0.432 | **0.53** | 0.894 | **1.09** | 0.02 |
| 40620 | 2593 | 1RB-Low | Rear | / | 26.41 | 27 | 0.352 | **0.40** | 0.724 | **0.83** | -0.17 |
| 40185 | 2549.5 | 1RB-Low | Rear | / | 26.33 | 27 | 0.23 | **0.27** | 0.474 | **0.55** | 0.11 |
| 39750 | 2506 | 1RB-Low | Rear | / | 26.28 | 27 | 0.156 | **0.18** | 0.315 | **0.37** | 0.04 |
| 40620 | 2593 | 50RB-Low | Front | / | 25.55 | 26 | 0.151 | **0.17** | 0.295 | **0.33** | -0.04 |
| 40620 | 2593 | 50RB-Low | Rear | / | 25.55 | 26 | 0.291 | **0.32** | 0.598 | **0.66** | 0.08 |
| 40620 | 2593 | 100RB | Rear | / | 25.38 | 26 | 0.297 | **0.34** | 0.611 | **0.70** | 0.01 |

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-27: SAR Values (LTE Band66 - Head)**

| Ambient Temperature: 22.5 ºC Liquid Temperature: 21.9ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 132572 | 1770 | 1RB_Mid | Left | Touch | / | 24.09 | 25 | 0.188 | **0.23** | 0.28 | **0.35** | 0.04 |
| 132572 | 1770 | 1RB_Mid | Left | Tilt | / | 24.09 | 25 | 0.115 | **0.14** | 0.168 | **0.21** | -0.16 |
| 132572 | 1770 | 1RB_Mid | Right | Touch | Fig.27 | 24.09 | 25 | 0.233 | **0.29** | 0.363 | **0.45** | 0.18 |
| 132572 | 1770 | 1RB_Mid | Right | Tilt | / | 24.09 | 25 | 0.143 | **0.18** | 0.214 | **0.26** | 0.16 |
| 132572 | 1770 | 50RB_ Low | Left | Touch | / | 23.17 | 24 | 0.136 | **0.16** | 0.201 | **0.24** | -0.12 |
| 132572 | 1770 | 50RB_ Low | Left | Tilt | / | 23.17 | 24 | 0.077 | **0.09** | 0.111 | **0.13** | 0.01 |
| 132572 | 1770 | 50RB_ Low | Right | Touch | / | 23.17 | 24 | 0.191 | **0.23** | 0.293 | **0.35** | -0.1 |
| 132572 | 1770 | 50RB_ Low | Right | Tilt | / | 23.17 | 24 | 0.108 | **0.13** | 0.161 | **0.19** | -0.16 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-28: SAR Values (LTE Band66 - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 132072 | 1720 | 1RB_Mid | Front | / | 19.08 | 20 | 0.133 | **0.16** | 0.216 | **0.27** | -0.1 |
| 132072 | 1720 | 1RB_Mid | Rear | / | 19.08 | 20 | 0.218 | **0.27** | 0.406 | **0.50** | -0.15 |
| 132072 | 1720 | 1RB_Mid | Left | / | 19.08 | 20 | 0.052 | **0.06** | 0.084 | **0.10** | 0.18 |
| 132072 | 1720 | 1RB_Mid | Right | / | 19.08 | 20 | 0.031 | **0.04** | 0.048 | **0.06** | -0.14 |
| 132572 | 1770 | 1RB_Mid | Bottom | / | 19.06 | 20 | 0.299 | **0.37** | 0.55 | **0.68** | -0.18 |
| 132322 | 1745 | 1RB_Mid | Bottom | / | 19.00 | 20 | 0.357 | **0.45** | 0.656 | **0.83** | 0.14 |
| 132072 | 1720 | 1RB_Mid | Bottom | Fig.28 | 19.08 | 20 | 0.441 | **0.55** | 0.815 | **1.01** | -0.14 |
| 132572 | 1770 | 50RB_ Low | Front | / | 19.11 | 20 | 0.129 | **0.16** | 0.219 | **0.27** | 0.11 |
| 132572 | 1770 | 50RB_ Low | Rear | / | 19.11 | 20 | 0.225 | **0.28** | 0.422 | **0.52** | 0.04 |
| 132572 | 1770 | 50RB_ Low | Left | / | 19.11 | 20 | 0.049 | **0.06** | 0.078 | **0.10** | 0.17 |
| 132572 | 1770 | 50RB_ Low | Right | / | 19.11 | 20 | 0.03 | **0.04** | 0.047 | **0.06** | 0.06 |
| 132572 | 1770 | 50RB_ Low | Bottom | / | 19.11 | 20 | 0.307 | **0.38** | 0.564 | **0.69** | -0.15 |
| 132572 | 1770 | 100RB | Bottom | / | 19.06 | 20 | 0.297 | **0.37** | 0.544 | **0.68** | 0.14 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-29: SAR Values (LTE Band66 - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 26140 | 1860 | 1RB_Mid | Front | / | 22.03 | 23 | 0.152 | **0.19** | 0.246 | **0.31** | -0.02 |
| 26140 | 1860 | 1RB_Mid | Rear | / | 22.03 | 23 | 0.224 | **0.28** | 0.386 | **0.48** | 0.08 |
| 26140 | 1860 | 50RB_ Low | Front | / | 22.12 | 23 | 0.153 | **0.19** | 0.249 | **0.30** | -0.06 |
| 26140 | 1860 | 50RB_ Low | Rear | Fig.29 | 22.12 | 23 | 0.229 | **0.28** | 0.397 | **0.49** | 0.03 |

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.1-30: SAR Values (LTE Band71 - Head)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 133322 | 683 | 1RB_Mid | Left | Touch | / | 24.57 | 25.5 | 0.23 | **0.28** | 0.29 | **0.36** | 0.18 |
| 133322 | 683 | 1RB_Mid | Left | Tilt | / | 24.57 | 25.5 | 0.143 | **0.18** | 0.173 | **0.21** | -0.04 |
| 133322 | 683 | 1RB_Mid | Right | Touch | Fig.30 | 24.57 | 25.5 | 0.248 | **0.31** | 0.31 | **0.38** | 0.06 |
| 133322 | 683 | 1RB_Mid | Right | Tilt | / | 24.57 | 25.5 | 0.137 | **0.17** | 0.169 | **0.21** | -0.02 |
| 133322 | 683 | 50RB_ Low | Left | Touch | / | 23.75 | 24.5 | 0.184 | **0.22** | 0.229 | **0.27** | 0.12 |
| 133322 | 683 | 50RB_ Low | Left | Tilt | / | 23.75 | 24.5 | 0.108 | **0.13** | 0.131 | **0.16** | -0.09 |
| 133322 | 683 | 50RB_ Low | Right | Touch | / | 23.75 | 24.5 | 0.207 | **0.25** | 0.257 | **0.31** | -0.08 |
| 133322 | 683 | 50RB_ Low | Right | Tilt | / | 23.75 | 24.5 | 0.107 | **0.13** | 0.131 | **0.16** | 0.05 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.1-31: SAR Values (LTE Band71 - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 133322 | 683 | 1RB_Mid | Front | / | 24.57 | 25.5 | 0.192 | **0.24** | 0.245 | **0.30** | -0.14 |
| 133322 | 683 | 1RB_Mid | Rear | Fig.31 | 24.57 | 25.5 | 0.298 | **0.37** | 0.38 | **0.47** | -0.02 |
| 133322 | 683 | 1RB_Mid | Left | / | 24.57 | 25.5 | 0.206 | **0.26** | 0.283 | **0.35** | 0.19 |
| 133322 | 683 | 1RB_Mid | Right | / | 24.57 | 25.5 | 0.263 | **0.33** | 0.356 | **0.44** | -0.14 |
| 133322 | 683 | 1RB_Mid | Bottom | / | 24.57 | 25.5 | 0.034 | **0.04** | 0.064 | **0.08** | -0.02 |
| 133322 | 683 | 50RB_ Low | Front | / | 23.75 | 24.5 | 0.159 | **0.19** | 0.202 | **0.24** | 0.12 |
| 133322 | 683 | 50RB_ Low | Rear | / | 23.75 | 24.5 | 0.239 | **0.28** | 0.302 | **0.36** | 0.19 |
| 133322 | 683 | 50RB_ Low | Left | / | 23.75 | 24.5 | 0.168 | **0.20** | 0.228 | **0.27** | 0.03 |
| 133322 | 683 | 50RB_ Low | Right | / | 23.75 | 24.5 | 0.211 | **0.25** | 0.289 | **0.34** | 0.15 |
| 133322 | 683 | 50RB_ Low | Bottom | / | 23.75 | 24.5 | 0.025 | **0.03** | 0.043 | **0.05** | -0.1 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

## 14.2 SAR results for Standard procedure

There is zoom scan measurement to be added for the highest measured SAR in each exposure configuration/band.

**Table 14.2-1: SAR Values (GSM 850 MHz Band - Head)**

| Ambient Temperature: 23.3 °C Liquid Temperature: 22.8°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 251 | 848.8 | Left | Touch | Fig.1 | 32.12 | 33.5 | 0.12 | **0.16** | 0.156 | **0.21** | 0.09 |

**Table 14.2-2: SAR Values (GSM 850 MHz Band - Body)**

| Ambient Temperature: 23.3 °C Liquid Temperature: 22.8°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 251 | 848.8 | GPRS (2) | Rear | Fig.2 | 30.61 | 31.5 | 0.253 | **0.31** | 0.326 | **0.40** | 0.13 |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.2-3: SAR Values (GSM 1900 MHz Band - Head)**

| Ambient Temperature: 22.5 °C Liquid Temperature: 21.9°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 512 | 1850.2 | Left | Touch | Fig.3 | 29.32 | 31 | 0.123 | **0.18** | 0.194 | **0.29** | -0.07 |

**Table 14.2-4: SAR Values (GSM 1900 MHz Band - Body)**

| Ambient Temperature: 22.8 °C Liquid Temperature:21.2°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode (number of timeslots) | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 512 | 1850.2 | GPRS (2) | Bottom | Fig.4 | 27.20 | 29 | 0.473 | **0.72** | 0.867 | **1.31** | 0.05 |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.2-5: SAR Values (WCDMA 1900 MHz Band - Head)**

| Ambient Temperature: 22.9 °C Liquid Temperature: 22.3°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 9262 | 1852.4 | Left | Touch | Fig.5 | 24.10 | 25 | 0.313 | **0.39** | 0.484 | **0.60** | 0.08 |

**Table 14.2-6: SAR Values (WCDMA 1900 MHz Band - Body)**

| Ambient Temperature: 23 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 9262 | 1852.4 | Bottom | Fig.6 | 22.93 | 24 | 0.612 | **0.78** | 1.11 | **1.42** | 0.08 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.2-7: SAR Values (WCDMA 1700 MHz Band - Head)**

| Ambient Temperature: 22.5 °C Liquid Temperature: 21.9°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 1312 | 1712.4 | Right | Touch | Fig.7 | 23.89 | 25 | 0.21 | **0.27** | 0.319 | **0.41** | -0.05 |

**Table 14.2-8: SAR Values (WCDMA 1700 MHz Band - Body)**

| Ambient Temperature: 23 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 1312 | 1712.4 | Bottom | Fig.8 | 19.88 | 21 | 0.626 | **0.81** | 1.16 | **1.50** | 0.05 |

Note1: The distance between the EUT and the phantom bottom is 10mm

**Table 14.2-9: SAR Values (WCDMA 1700 MHz Band - Body)**

| Ambient Temperature: 23 °C Liquid Temperature: 22.5°C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 1312 | 1712.4 | Rear | Fig.9 | 22.89 | 23 | 0.492 | **0.50** | 0.872 | **0.89** | 0.08 |

Note1: The distance between the EUT and the phantom bottom is 15mm

**Table 14.2-10: SAR Values (WCDMA 850 MHz Band - Head)**

| Ambient Temperature: 23.3 °C Liquid Temperature: 22.8°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 4183 | 836.6 | Right | Touch | Fig.10 | 22.93 | 24 | 0.175 | **0.22** | 0.224 | **0.29** | -0.01 |

**Table 14.2-11: SAR Values (WCDMA 850 MHz Band - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | |
| 4132 | 826.4 | Rear | Fig.11 | 22.82 | 24 | 0.269 | **0.35** | 0.347 | **0.46** | 0.01 |

Note: The distance between the EUT and the phantom bottom is 10mm.

**Table 14.2-12: SAR Values (LTE Band12 - Head)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 23060 | 704 | 1RB_Mid | Right | Touch | Fig.12 | 24.70 | 25.5 | 0.251 | **0.30** | 0.315 | **0.38** | 0.14 |

Note1: The LTE mode is QPSK_10MHz.

**Table 14.2-13: SAR Values (LTE Band12 - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) | |
| Ch. | MHz | | | | | | | | | | | |
| 23060 | 704 | 1RB_Mid | Rear | Fig.13 | 24.62 | 25.5 | 0.351 | **0.43** | 0.445 | **0.54** | 0.07 | |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

**Table 14.2-14: SAR Values (LTE Band13 - Head)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 23230 | 782 | 1RB_Mid | Right | Touch | Fig.14 | 24.25 | 25.5 | 0.244 | **0.33** | 0.309 | **0.41** | 0.17 |

Note1: The LTE mode is QPSK_10MHz.

**Table 14.2-15: SAR Values (LTE Band13 - Body)**

| Ambient Temperature: 23.3 °C Liquid Temperature: 22.8°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 23230 | 782 | 1RB_Mid | Rear | Fig.15 | 24.25 | 25.5 | 0.401 | **0.53** | 0.509 | **0.68** | -0.03 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_10MHz.

**Table 14.2-16: SAR Values (LTE Band25 - Head)**

| Ambient Temperature: 22.5 °C Liquid Temperature: 21.9°C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 26140 | 1860 | 1RB_Mid | Left | Touch | Fig.16 | 24.10 | 25 | 0.304 | **0.37** | 0.469 | **0.58** | -0.05 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.2-17: SAR Values (LTE Band25 - Body)**

| Ambient Temperature: 23 °C Liquid Temperature: 22.5°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 26140 | 1860 | 1RB_Mid | Bottom | Fig.17 | 22.36 | 23 | 0.484 | **0.56** | 0.874 | **1.01** | -0.15 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.2-18: SAR Values (LTE Band25 - Body)**

| Ambient Temperature: 23 °C Liquid Temperature: 22.5°C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 26140 | 1860 | 1RB_Mid | Front | Fig.18 | 23.14 | 24 | 0.201 | **0.25** | 0.34 | **0.41** | -0.04 |

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.2-19: SAR Values (LTE Band26 - Head)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 26865 | 831.5 | 1RB_Low | Left | Touch | Fig.19 | 24.28 | 25.5 | 0.234 | **0.31** | 0.297 | **0.39** | 0.05 |

Note1: The LTE mode is QPSK_15MHz.

**Table 14.2-20: SAR Values (LTE Band26 - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) | |
| Ch. | MHz | | | | | | | | | | | |
| 26865 | 831.5 | 1RB_Low | Rear | Fig.20 | 24.28 | 25.5 | 0.358 | **0.47** | 0.457 | **0.61** | 0.04 | |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_15MHz.

**Table 14.2-21: SAR Values (LTE Band41 - Head)**

| Ambient Temperature: 22.5 ºC Liquid Temperature: 21.9ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Right | Touch | Fig.21 | 23.55 | 24 | 0.052 | **0.06** | 0.096 | **0.11** | -0.12 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.2-22: SAR Values (LTE Band41 - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 41055 | 2636.5 | 50RB-Low | Rear | Fig.22 | 22.33 | 23 | 0.463 | **0.54** | 1.04 | **1.21** | 0.04 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.2-23: SAR Values (LTE Band41 - Body)**

| Ambient Temperature: 23 °C | | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Rear | Fig.23 | 23.55 | 24 | 0.22 | **0.24** | 0.452 | **0.50** | 0.08 |

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.2-24: SAR Values (LTE Band41 HPUE - Head)**

| Ambient Temperature: 22.5 °C | | | | | | Liquid Temperature: 21.9°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 40620 | 2593 | 1RB-Low | Right | Touch | Fig.24 | 26.41 | 27 | 0.075 | **0.09** | 0.135 | **0.15** | 0.08 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.2-25: SAR Values (LTE Band41 HPUE - Body)**

| Ambient Temperature: 23 °C | | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 41055 | 2636.5 | 50RB-Low | Rear | Fig.25 | 24.20 | 25 | 0.477 | **0.57** | 1.08 | **1.30** | -0.09 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.2-26: SAR Values (LTE Band41 HPUE - Body)**

| Ambient Temperature: 23 °C | | | | | Liquid Temperature: 22.5°C | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 41055 | 2636.5 | 1RB-Low | Rear | Fig.26 | 26.13 | 27 | 0.432 | **0.53** | 0.894 | **1.09** | 0.02 |

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.2-27: SAR Values (LTE Band66 - Head)**

| Ambient Temperature: 22.5 ºC Liquid Temperature: 21.9ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 132572 | 1770 | 1RB_Mid | Right | Touch | Fig.27 | 24.09 | 25 | 0.233 | **0.29** | 0.363 | **0.45** | 0.18 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.2-28: SAR Values (LTE Band66 - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) | |
| Ch. | MHz | | | | | | | | | | | |
| 132072 | 1720 | 1RB_Mid | Bottom | Fig.28 | 19.08 | 20 | 0.441 | **0.55** | 0.815 | **1.01** | -0.14 | |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.2-29: SAR Values (LTE Band66 - Body)**

| Ambient Temperature: 23 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) | |
| Ch. | MHz | | | | | | | | | | | |
| 26140 | 1860 | 50RB_ Low | Rear | Fig.29 | 22.12 | 23 | 0.229 | **0.28** | 0.397 | **0.49** | 0.03 | |

Note1: The distance between the EUT and the phantom bottom is 15mm.

Note2: The LTE mode is QPSK_20MHz.

**Table 14.2-30: SAR Values (LTE Band71 - Head)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | | |
| 133322 | 683 | 1RB_Mid | Right | Touch | Fig.30 | 24.57 | 25.5 | 0.248 | **0.31** | 0.31 | **0.38** | 0.06 |

Note1: The LTE mode is QPSK_20MHz.

**Table 14.2-31: SAR Values (LTE Band71 - Body)**

| Ambient Temperature: 23.3 ºC Liquid Temperature: 22.8ºC | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Mode | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g) (W/kg) | Power Drift (dB) |
| Ch. | MHz | | | | | | | | | | |
| 133322 | 683 | 1RB_Mid | Rear | Fig.31 | 24.57 | 25.5 | 0.298 | **0.37** | 0.38 | **0.47** | -0.02 |

Note1: The distance between the EUT and the phantom bottom is 10mm.

Note2: The LTE mode is QPSK_20MHz.

### 14.3 WLAN Evaluation for 2.4G

According to the KDB248227 D01, SAR is measured for 2.4GHz 802.11b DSSS using the initial test position procedure.

**Head Evaluation**

**Table 14.3-1: SAR Values (WLAN - Head)– 802.11b (Fast SAR) –receiver on**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)( W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 2437 | 6 | Left | Touch | / | 17.58 | 17.7 | 0.327 | **0.34** | 0.635 | **0.65** | -0.11 |
| 2437 | 6 | Left | Tilt | / | 17.58 | 17.7 | 0.262 | **0.27** | 0.532 | **0.55** | -0.03 |
| 2437 | 6 | Right | Touch | / | 17.58 | 17.7 | 0.189 | **0.19** | 0.33 | **0.34** | 0.06 |
| 2437 | 6 | Right | Tilt | / | 17.58 | 17.7 | 0.136 | **0.14** | 0.245 | **0.25** | -0.09 |

As shown above table, the initial test position for head is “Left Touch”. So the head SAR of WLAN is presented as below:

**Table 14.3-2: SAR Values (WLAN - Head)– 802.11b (Full SAR)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)( W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | | |
| 2437 | 6 | Left | Touch | Fig.32 | 17.58 | 17.7 | 0.337 | **0.35** | 0.67 | **0.69** | -0.11 |
| 2437 | 6 | Left | Tilt | / | 17.58 | 17.7 | 0.252 | **0.26** | 0.51 | **0.52** | -0.03 |
| Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.<br>Note2: For all positions/configurations tested using the initial test position and subsequent test positions, 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 until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. | | | | | | | | | | | |

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.3-3: SAR Values (WLAN - Head) – 802.11b (Scaled Reported SAR)**

| Ambient Temperature: 22.9 ℃ Liquid Temperature: 22.5℃ | | | | | | | |
|---|---|---|---|---|---|---|---|
| Frequency | | Side | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
| MHz | Ch. | | | | | | |
| 2437 | 6 | Left | Tilt | 100% | 100% | **0.69** | **0.69** |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

**Body Evaluation**

**Table 14.3-4: SAR Values (WLAN - Body)– 802.11b (Fast SAR) –Receiver off+Hotspot off**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)( W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 2437 | 6 | Front | / | 19.38 | 19.5 | 0.143 | **0.15** | 0.266 | **0.27** | -0.18 |
| 2437 | 6 | Rear | / | 19.38 | 19.5 | 0.243 | **0.25** | 0.485 | **0.50** | -0.15 |
| 2437 | 6 | Right | / | 19.38 | 19.5 | 0.157 | **0.16** | 0.312 | **0.32** | -0.05 |
| 2437 | 6 | Top | / | 19.38 | 19.5 | 0.126 | **0.13** | 0.255 | **0.26** | 0.14 |

As shown above table, the initial test position for body is “Rear”. So the body SAR of WLAN is presented as below:

**Table 14.3-5: SAR Values (WLAN - Body)– 802.11b (Full SAR)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Positio n | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)( W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 2437 | 6 | Rear | Fig.33 | 19.38 | 19.5 | 0.243 | **0.25** | 0.485 | **0.50** | -0.15 |
| 2437 | 6 | Right | | 19.38 | 19.5 | 0.138 | **0.14** | 0.27 | **0.28** | -0.05 |

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, 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 until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

Note3: The distance between the EUT and the phantom bottom is 10mm.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.3-6: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
| MHz | Ch. | | | | | |
| 2437 | 6 | Rear | 100% | 100% | **0.5** | **0.5** |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

**Table 14.3-7: SAR Values (WLAN - Body)– 802.11b (Fast SAR) - Receiver off+Hotspot on**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)( W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 2437 | 6 | Front | / | 20.43 | 20.5 | 0.149 | **0.15** | 0.268 | **0.27** | 0.11 |
| 2437 | 6 | Rear | / | 20.43 | 20.5 | 0.305 | **0.31** | 0.598 | **0.61** | 0.02 |
| 2437 | 6 | Right | / | 20.43 | 20.5 | 0.159 | **0.16** | 0.31 | **0.32** | -0.1 |
| 2437 | 6 | Top | / | 20.43 | 20.5 | 0.166 | **0.17** | 0.333 | **0.34** | 0.08 |

As shown above table, the initial test position for body is “Top”. So the body SAR of WLAN is presented as below:

**Table 14.3-8: SAR Values (WLAN - Body)– 802.11b (Full SAR)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Positio n | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)( W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 2437 | 6 | Rear | Fig.34 | 20.43 | 20.5 | 0.286 | **0.29** | 0.575 | **0.58** | 0.02 |
| 2437 | 6 | Right | / | 20.43 | 20.5 | 0.19 | **0.19** | 0.296 | **0.30** | -0.1 |

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, 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 until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

Note3: The distance between the EUT and the phantom bottom is 10mm.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.3-9: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
| MHz | Ch. | | | | | |
| 2437 | 6 | Rear | 100% | 100% | **0.58** | **0.58** |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.

**Table 14.3-10: SAR Values (WLAN - Body)– 802.11b (Fast SAR) – Cellular+WIFI2.4G**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Position | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)( W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 2437 | 6 | Front | / | 17.58 | 17.7 | 0.086 | **0.09** | 0.16 | **0.16** | 0.12 |
| 2437 | 6 | Rear | / | 17.58 | 17.7 | 0.179 | **0.18** | 0.351 | **0.36** | -0.17 |
| 2437 | 6 | Right | / | 17.58 | 17.7 | 0.095 | **0.10** | 0.186 | **0.19** | -0.03 |
| 2437 | 6 | Top | / | 17.58 | 17.7 | 0.086 | **0.09** | 0.17 | **0.17** | 0.13 |

As shown above table, the initial test position for body is “Top”. So the body SAR of WLAN is presented as below:

**Table 14.3-11: SAR Values (WLAN - Body)– 802.11b (Full SAR)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency | | Test Positio n | Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Measured SAR(1g) (W/kg) | Reported SAR(1g)( W/kg) | Power Drift (dB) |
| MHz | Ch. | | | | | | | | | |
| 2437 | 6 | Rear | Fig.35 | 17.58 | 17.7 | 0.164 | **0.17** | 0.329 | **0.34** | -0.17 |

Note1: When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest estimated 1-g SAR conditions determined by area scans, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg.

Note2: For all positions/configurations tested using the initial test position and subsequent test positions, 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 until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

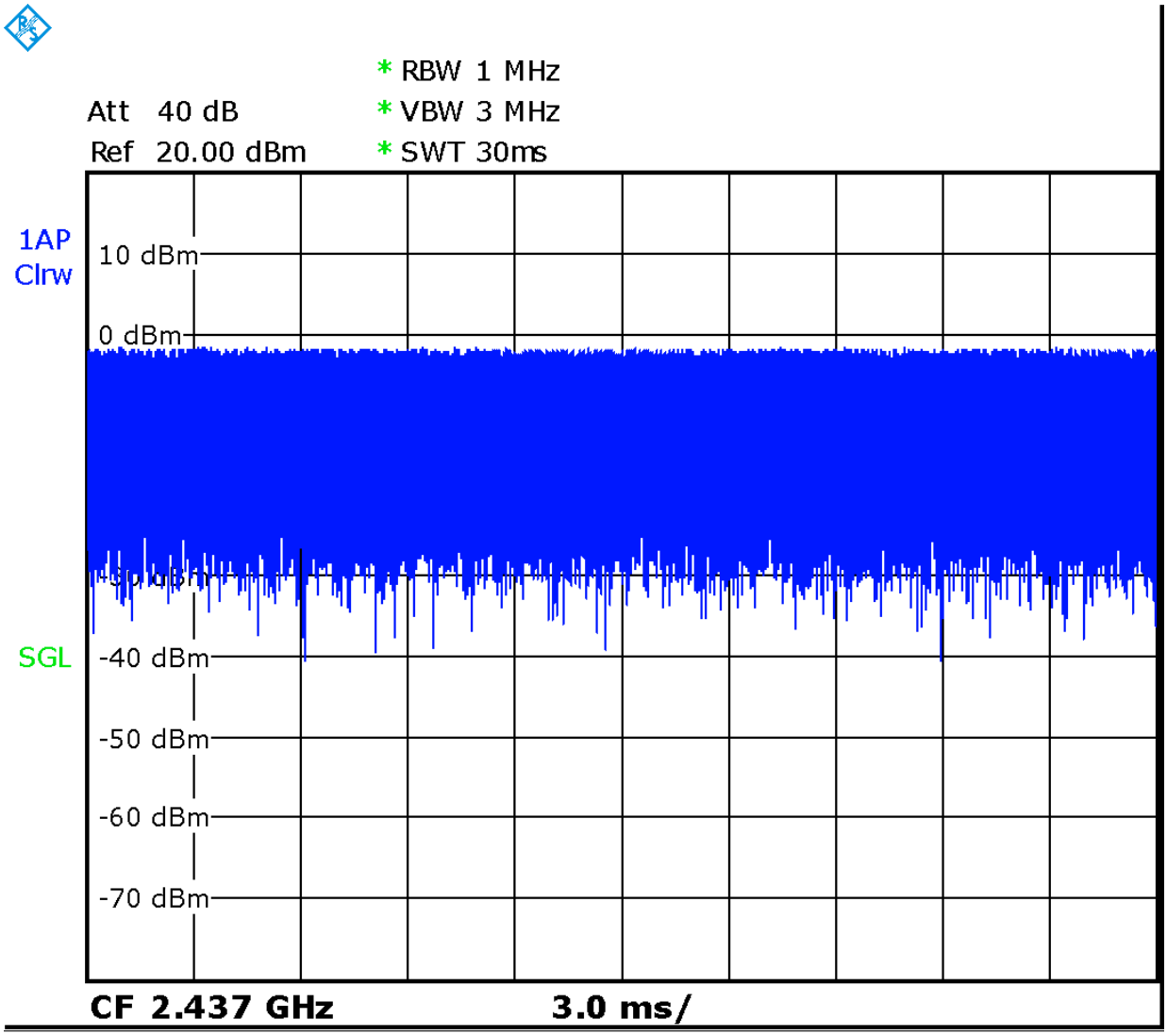
Note3: The distance between the EUT and the phantom bottom is 10mm.

According to the KDB248227 D01, The reported SAR must be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit. The scaled reported SAR is presented as below.

**Table 14.3-12: SAR Values (WLAN - Body) – 802.11b (Scaled Reported SAR)**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | |
|---|---|---|---|---|---|---|
| Frequency | | Test Position | Actual duty factor | maximum duty factor | Reported SAR (1g)(W/kg) | Scaled reported SAR (1g)(W/kg) |
| MHz | Ch. | | | | | |
| 2437 | 6 | Rear | 100% | 100% | **0.34** | **0.34** |

SAR is not required for OFDM because the 802.11b adjusted SAR ≤ 1.2 W/kg.




**Picture 14.1 Duty factor plot**

### 14.4 SAR Evaluation for Phablet

According to the KDB648474 D04, for smart phones, with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, that can provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets and support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, 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 Publication 865664 D01 to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold. The normal tablet procedures in KDB Publication 616217 are required when the overall diagonal dimension of the device is > 20.0 cm. Hotspot mode SAR is not required when normal tablet procedures are applied. Extremity 10-g SAR is also not required for the front (top) surface of larger form factor full size tablets. The more conservative normal tablet SAR results can be used to support phablet mode 10-g extremity SAR.
3. The simultaneous transmission operating configurations applicable to voice and data transmissions for both phone and mini-tablet modes must be taken into consideration separately for 1-g and 10-g SAR to determine the simultaneous transmission SAR test exclusion and measurement requirements for the relevant wireless modes and exposure conditions

For the device of this project, the display diagonal dimension is 151 cm (> 15.0 cm) and the overall diagonal dimension is 172 cm (> 16.0 cm), so this device is a phone as “phablet”.

**Table 14.4-1: 10g extremity SAR determination**

| Frequency | | | Mode | Position | Conducted Power (dBm) | Hotspot off tune-up Power (dBm) | Measured SAR(1g) (W/kg) | Adjusted SAR(1g) (W/kg) | Test reduction threshold (W/kg) |
|---|---|---|---|---|---|---|---|---|---|
| Band | Ch. | MHz | | | | | | | |
| GSM1900 | 512 | 1850.2 | GPRS(2) | Bottom | 27.20 | 29 | 0.867 | **1.31** | **1.2** |
| WCDMA1900 | 9538 | 1907.6 | RMC | Rear | 22.91 | 24 | 1.03 | **1.32** | |
| WCDMA1900 | 9400 | 1880 | RMC | Rear | 22.95 | 24 | 1.01 | **1.29** | |
| WCDMA1900 | 9262 | 1852.4 | RMC | Rear | 22.93 | 24 | 1.11 | **1.42** | |
| WCDMA1700 | 9538 | 1907.6 | RMC | Rear | 19.88 | 23 | 0.656 | **1.35** | |
| WCDMA1700 | 9400 | 1880 | RMC | Rear | 19.90 | 23 | 0.814 | **1.66** | |
| WCDMA1700 | 9262 | 1852.4 | RMC | Rear | 19.88 | 23 | 1.01 | **2.07** | |
| WCDMA1700 | 9538 | 1907.6 | RMC | Bottom | 19.88 | 23 | 0.842 | **1.73** | |
| WCDMA1700 | 9400 | 1880 | RMC | Bottom | 19.90 | 23 | 0.915 | **1.87** | |
| WCDMA1700 | 9262 | 1852.4 | RMC | Bottom | 19.88 | 23 | 1.16 | **2.38** | |
| LTE Band25 | 26140 | 1860 | 1RB-Mid | Bottom | 22.36 | 24 | 0.874 | **1.28** | |
| LTE Band25 | 26140 | 1860 | 50RB-Mid | Bottom | 22.32 | 24 | 0.848 | **1.25** | |
| LTE Band41 | 41490 | 2680 | 1RB-Low | Rear | 22.53 | 24 | 0.942 | **1.32** | |
| LTE Band41 | 41055 | 2636.5 | 1RB-Low | Rear | 22.31 | 24 | 1.01 | **1.49** | |
| LTE Band41 | 41055 | 2636.5 | 50RB-Low | Rear | 22.33 | 23 | 1.04 | **1.21** | |
| LTE Band41 (HPUE) | 41490 | 2680 | 1RB-Low | Rear | 24.39 | 27 | 1.03 | **1.88** | |
| LTE Band41 (HPUE) | 41055 | 2636.5 | 1RB-Low | Rear | 24.18 | 27 | 1.04 | **1.99** | |
| LTE Band41 (HPUE) | 40620 | 2593 | 1RB-Low | Rear | 24.41 | 27 | 0.832 | **1.51** | |
| LTE Band41 (HPUE) | 41490 | 2680 | 50RB-Low | Rear | 24.34 | 26 | 1.02 | **1.49** | |
| LTE Band41 (HPUE) | 41055 | 2636.5 | 50RB-Low | Rear | 24.20 | 26 | 1.08 | **1.63** | |
| LTE Band41 (HPUE) | 40620 | 2593 | 50RB-Low | Rear | 24.37 | 26 | 0.863 | **1.26** | |
| LTE Band41 (HPUE) | 40620 | 2593 | 100RB | Rear | 24.32 | 26 | 0.865 | **1.27** | |
| LTE Band66 | 132572 | 1770 | 1RB-Mid | Bottom | 19.06 | 23 | 0.55 | **1.36** | |
| LTE Band66 | 132322 | 1745 | 1RB-Mid | Bottom | 19.00 | 23 | 0.656 | **1.65** | |
| LTE Band66 | 132072 | 1720 | 1RB-Mid | Bottom | 19.08 | 23 | 0.815 | **2.01** | |
| LTE Band66 | 132572 | 1770 | 50RB-Low | Bottom | 19.11 | 23 | 0.564 | **1.38** | |
| LTE Band66 | 132572 | 1770 | 100RB | Bottom | 19.06 | 23 | 0.544 | **1.35** | |

According to the above table, the 10g extremity SAR is required for the GSM1900, WCDMA1900/1700,LTE Band25/41/41(HPUE)/66.

**Table 14.4-2: SAR Values for 10g extremity SAR**

| Ambient Temperature: 22.9 ºC Liquid Temperature: 22.5ºC | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Frequency | | | Mode/ Figure No. | Conducted Power (dBm) | Max. tune-up Power (dBm) | Measured SAR(10g) (W/kg) | Reported SAR(10g) (W/kg) | Power Drift (dB) | Limited (W/kg) |
| Band | Ch. | MHz | | | | | | | |
| GSM1900 | 810 | 1909.8 | GPRS(2) Bottom | 27.48 | 29 | 1.8 | **2.56** | -0.18 | 4.0 |
| GSM1900 | 661 | 1880 | GPRS(2) Bottom | 27.36 | 29 | 2.11 | **3.08** | -0.16 | |
| GSM1900 | 512 | 1850.2 | GPRS(2) Bottom | 27.20 | 29 | 2.6 | **3.94** | -0.11 | |
| WCDMA1900 | 9538 | 1907.6 | RMC Bottom | 22.91 | 24 | 2.24 | **2.88** | -0.08 | |
| WCDMA1900 | 9400 | 1880 | RMC Bottom | 22.95 | 24 | 2.48 | **3.16** | -0.02 | |
| WCDMA1900 | 9262 | 1852.4 | RMC Bottom | 22.93 | 24 | 2.68 | **3.43** | -0.08 | |
| WCDMA1700 | 1513 | 1752.6 | RMC Rear | 22.90 | 23 | 2.09 | **2.14** | -0.17 | |
| WCDMA1700 | 1412 | 1732.4 | RMC Rear | 22.91 | 23 | 2.11 | **2.15** | 0.03 | |
| WCDMA1700 | 1312 | 1712.4 | RMC Rear | 22.89 | 23 | 2.07 | **2.12** | 0.13 | |
| WCDMA1700 | 1513 | 1752.6 | RMC Bottom | 22.90 | 23 | 2.97 | **3.04** | -0.13 | |
| WCDMA1700 | 1412 | 1732.4 | RMC Bottom | 22.91 | 23 | 3.24 | **3.31** | -0.04 | |
| WCDMA1700 | 1312 | 1712.4 | RMC Bottom | 22.89 | 23 | 3.42 | **3.51** | -0.01 | |
| LTE Band25 | 26590 | 1905 | 1RB-Mid Bottom | 23.12 | 24 | 2.25 | **2.76** | 0.18 | |
| LTE Band25 | 26365 | 1882.5 | 1RB-Mid Bottom | 23.11 | 24 | 2.35 | **2.88** | 0.18 | |
| LTE Band25 | 26140 | 1860 | 1RB-Mid Bottom | 23.14 | 24 | 2.54 | **3.10** | 0.01 | |
| LTE Band25 | 26590 | 1905 | 50RB-Mid Bottom | 23.12 | 24 | 2.19 | **2.68** | 0.13 | |
| LTE Band25 | 26365 | 1882.5 | 50RB-Mid Bottom | 23.11 | 24 | 2.35 | **2.88** | -0.02 | |
| LTE Band25 | 26140 | 1860 | 50RB-Mid Bottom | 23.14 | 24 | 2.48 | **3.02** | -0.18 | |
| LTE Band25 | 26590 | 1905 | 100RB Bottom | 23.07 | 24 | 2.23 | **2.76** | 0.08 | |
| LTE Band25 | 26365 | 1882.5 | 100RB Bottom | 23.03 | 24 | 2.44 | **3.05** | 0.15 | |
| LTE Band25 | 26140 | 1860 | 100RB Bottom | 23.12 | 24 | 2.46 | **3.01** | -0.08 | |
| LTE Band41 | 41490 | 2680 | 1RB-Low Rear | 23.55 | 24 | 2.28 | **2.53** | -0.15 | |
| LTE Band41 | 41055 | 2636.5 | 1RB-Low Rear | 23.55 | 24 | 2.4 | **2.66** | 0.04 | |
| LTE Band41 | 40620 | 2593 | 1RB-Low Rear | 23.55 | 24 | 2.38 | **2.64** | 0.15 | |
| LTE Band41 | 40185 | 2549.5 | 1RB-Low Rear | 23.55 | 24 | 2.33 | **2.58** | 0.17 | |
| LTE Band41 | 39750 | 2506 | 1RB-Low Rear | 23.55 | 24 | 2.08 | **2.31** | 0.06 | |
| LTE Band41 | 41490 | 2680 | 50RB-Low Rear | 22.50 | 23 | 1.75 | **1.96** | 0.11 | |
| LTE Band41 | 41055 | 2636.5 | 50RB-Low Rear | 22.50 | 23 | 1.92 | **2.15** | -0.01 | |
| LTE Band41 | 40620 | 2593 | 50RB-Low Rear | 22.50 | 23 | 1.9 | **2.13** | 0.04 | |
| LTE Band41 | 40185 | 2549.5 | 50RB-Low Rear | 22.50 | 23 | 1.89 | **2.12** | 0.18 | |
| LTE Band41 | 39750 | 2506 | 50RB-Low Rear | 22.50 | 23 | 1.67 | **1.87** | 0.11 | |
| LTE Band41 | 41490 | 2680 | 100RB Rear | 22.43 | 23 | 1.96 | **2.23** | 0.12 | |
| LTE Band41 | 41055 | 2636.5 | 100RB Rear | 22.25 | 23 | 1.91 | **2.27** | 0.01 | |
| LTE Band41 | 40620 | 2593 | 100RB Rear | 22.42 | 23 | 1.76 | **2.01** | 0.02 | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| LTE Band41 | 40185 | 2549.5 | 100RB Rear | 22.33 | 23 | 1.52 | **1.77** | -0.08 | |
| LTE Band41 | 39750 | 2506 | 100RB Rear | 22.32 | 23 | 1.44 | **1.68** | 0.03 | |
| LTE Band41 (HPUE) | 41490 | 2680 | 1RB-Low Rear | 26.31 | 27 | 2.7 | **3.16** | -0.11 | |
| LTE Band41 (HPUE) | 41055 | 2636.5 | 1RB-Low Rear | 26.13 | 27 | 2.89 | **3.53** | 0.01 | |
| LTE Band41 (HPUE) | 40620 | 2593 | 1RB-Low Rear | 26.41 | 27 | 2.82 | **3.23** | 0.15 | |
| LTE Band41 (HPUE) | 40185 | 2549.5 | 1RB-Low Rear | 26.33 | 27 | 2.63 | **3.07** | -0.16 | |
| LTE Band41 (HPUE) | 39750 | 2506 | 1RB-Low Rear | 26.28 | 27 | 2.46 | **2.90** | -0.15 | |
| LTE Band41 (HPUE) | 41490 | 2680 | 50RB-Low Rear | 25.40 | 26 | 2.19 | **2.51** | -0.03 | |
| LTE Band41 (HPUE) | 41055 | 2636.5 | 50RB-Low Rear | 25.18 | 26 | 2.24 | **2.71** | -0.01 | |
| LTE Band41 (HPUE) | 40620 | 2593 | 50RB-Low Rear | 25.55 | 26 | 2.32 | **2.57** | -0.15 | |
| LTE Band41 (HPUE) | 40185 | 2549.5 | 50RB-Low Rear | 25.32 | 26 | 2.14 | **2.50** | -0.07 | |
| LTE Band41 (HPUE) | 39750 | 2506 | 50RB-Low Rear | 25.51 | 26 | 1.93 | **2.16** | 0 | |
| LTE Band41 (HPUE) | 41490 | 2680 | 100RB Rear | 25.40 | 26 | 2.37 | **2.72** | -0.03 | |
| LTE Band41 (HPUE) | 41055 | 2636.5 | 100RB Rear | 25.18 | 26 | 2.3 | **2.78** | 0.05 | |
| LTE Band41 (HPUE) | 40185 | 2549.5 | 100RB Rear | 25.32 | 26 | 1.91 | **2.23** | 0.01 | |
| LTE Band41 (HPUE) | 39750 | 2506 | 100RB Rear | 25.51 | 26 | 1.82 | **2.04** | 0.07 | |
| LTE Band41 (HPUE) | 40620 | 2593 | 100RB Rear | 25.55 | 26 | 2.44 | **2.71** | 0.09 | |
| LTE Band66 | 132572 | 1770 | 1RB-Mid Bottom | 22.03 | 23 | 2.44 | **3.05** | 0.13 | |
| LTE Band66 | 132322 | 1745 | 1RB-Mid Bottom | 21.99 | 23 | 2.64 | **3.33** | -0.11 | |
| LTE Band66 | 132072 | 1720 | 1RB-Mid Bottom | 21.97 | 23 | 2.88 | **3.65** | -0.05 | |
| LTE Band66 | 132572 | 1770 | 50RB-Low Bottom | 22.12 | 23 | 2.52 | **3.09** | -0.17 | |
| LTE Band66 | 132322 | 1745 | 50RB-Low Bottom | 22.09 | 23 | 2.65 | **3.27** | 0.12 | |
| LTE Band66 | 132072 | 1720 | 50RB-Low Bottom | 22.06 | 23 | 2.76 | **3.43** | 0.01 | |
| LTE Band66 | 132572 | 1770 | 100RB Bottom | 22.08 | 23 | 2.5 | **3.09** | -0.06 | |
| LTE Band66 | 132322 | 1745 | 100RB Bottom | 21.98 | 23 | 2.72 | **3.44** | -0.07 | |
| LTE Band66 | 132072 | 1720 | 100RB Bottom | 22.00 | 23 | 2.81 | **3.54** | -0.09 | |
| WIFI2.4G | 6 | 2437 | Rear | 17.58 | 17.7 | 1.82 | **1.87** | -0.17 | |
| WIFI2.4G | 6 | 2437 | Bottom | 17.58 | 17.7 | 0.048 | **0.05** | 0.12 | |

Note1: The distance between the EUT and the phantom bottom is 0mm.

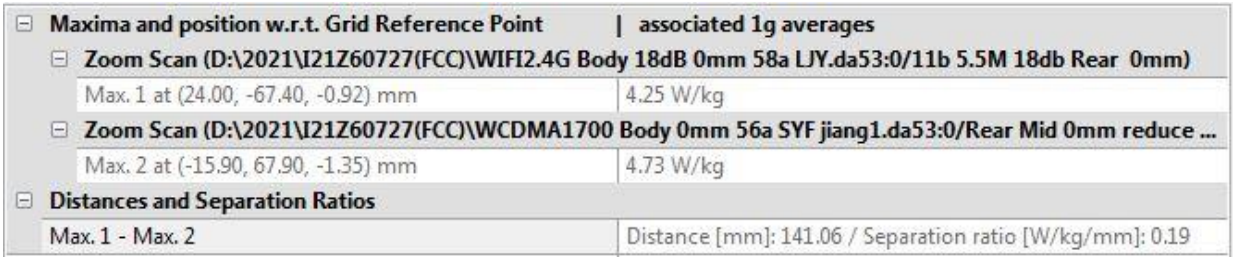
**Table 14.4-3: The sum of SAR values for 10g extremity SAR**

| | Position | Main antenna | WiFi-2.4G | Sum | Limited |
|---|---|---|---|---|---|
| **10-g extremity SAR (Separation Distance 0mm)** | Bottom (GSM1900) | 3.94 | 0.05 | **3.99** | 4.0 |
| | Rear (LTE Band41 HPUE) | 3.53 | 1.87 | **5.4** | |

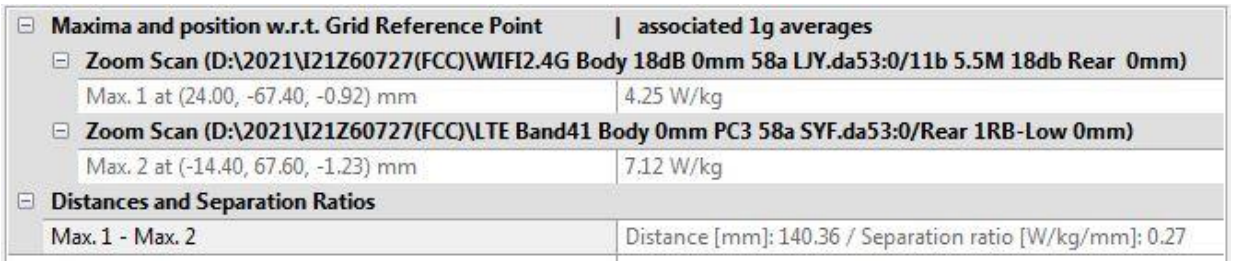
**Table 14.4-4: The sum of reported SAR values for main antenna and WiFi (Extremity SAR)**

| | Position | band | Main antenna | WiFi | Sum (10g) | Distance (mm) | Ratio |
|---|---|---|---|---|---|---|---|
| **Highest reported SAR value for Phablet** | Rear 0mm | WCDMA1700 | 2.15 | 1.87 | **4.02** | 141.06 | 0.057 |
| | | LTE Band41 | 2.66 | 1.87 | **4.53** | 140.36 | 0.069 |
| | | LTE Band41 HPUE | 3.53 | 1.87 | **5.4** | 146.19 | 0.086 |

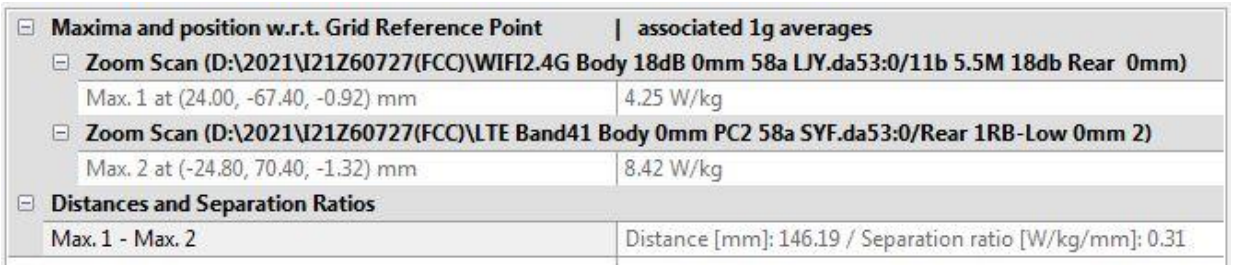
According to the KDB 447498 D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR to peak location separation ratio. The ratio is determined by $(SAR1 + SAR2)^{1.5}/Ri$, rounded to two decimal digits, and must be ≤ 0.1 for all antenna pairs in the configuration to qualify for 10-g SAR test exclusion.




**Picture 14.4-1 Distance evaluation for WCDMA1700 and WiFi 2.4G Body Rear 0mm**




**Picture 14.4-2 Distance evaluation for LTE Band41 and WiFi 2.4G Body Rear 0mm**




**Picture 14.4-3 Distance evaluation for LTE Band41 HPUE and WiFi 2.4G Body Rear 0mm**

## 15 SAR Measurement Variability

SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium.

The following procedures are applied to determine if repeated measurements are required.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

**Table 15.1: SAR Measurement Variability for Body GSM1900 (1g)**

| Frequency | | Test Position | Spacing (mm) | Original SAR (W/kg) | First Repeated SAR (W/kg) | The Ratio | Second Repeated SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | |
| 512 | 1850.2 | Bottom | 10 | 0.867 | 0.858 | 1.01 | / |

**Table 15.2: SAR Measurement Variability for Body WCDMA1900 (1g)**

| Frequency | | Test Position | Spacing (mm) | Original SAR (W/kg) | First Repeated SAR (W/kg) | The Ratio | Second Repeated SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | |
| 9262 | 1852.4 | Bottom | 10 | 1.11 | 1.05 | 1.06 | / |

**Table 15.3: SAR Measurement Variability for Body WCDMA1700 (1g)**

| Frequency | | Test Position | Spacing (mm) | Original SAR (W/kg) | First Repeated SAR (W/kg) | The Ratio | Second Repeated SAR (W/kg) |
|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | |
| 1312 | 1712.4 | Bottom | 10 | 1.16 | 1.12 | 1.04 | / |

**Table 15.4: SAR Measurement Variability for Body LTE B25 (1g)**

| Frequency | | Mode | Test Position | Spacing (mm) | Original SAR (W/kg) | First Repeated SAR (W/kg) | The Ratio | Second Repeated SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | | |
| 26140 | 1860 | 1RB_Mid | Bottom | 10 | 0.874 | 0.865 | 1.04 | / |

**Table 15.5: SAR Measurement Variability for Body LTE B41 (1g)**

| Frequency | | Mode | Test Position | Spacing (mm) | Original SAR (W/kg) | First Repeated SAR (W/kg) | The Ratio | Second Repeated SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | | |
| 41055 | 2636.5 | 50RB_Low | Rear | 10 | 1.04 | 1.01 | 1.03 | / |

**Table 15.6: SAR Measurement Variability for Body LTE B41 HPUE (1g)**

| Frequency | | Mode | Test Position | Spacing (mm) | Original SAR (W/kg) | First Repeated SAR (W/kg) | The Ratio | Second Repeated SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | | |
| 41055 | 2636.5 | 50RB_Low | Rear | 10 | 1.08 | 1.02 | 1.06 | / |

**Table 15.4: SAR Measurement Variability for Body LTE B66 (1g)**

| Frequency | | Mode | Test Position | Spacing (mm) | Original SAR (W/kg) | First Repeated SAR (W/kg) | The Ratio | Second Repeated SAR (W/kg) |
|---|---|---|---|---|---|---|---|---|
| Ch. | MHz | | | | | | | |
| 132072 | 1720 | 1RB_Mid | Bottom | 10 | 0.815 | 0.802 | 1.02 | / |

# 16 Measurement Uncertainty

## 16.1 Measurement Uncertainty for Normal SAR Tests (300MHz~3GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|---|---|---|---|---|---|---|---|---|---|---|
| **Measurement system** | | | | | | | | | | |
| 1 | Probe calibration | B | 6.0 | N | 1 | 1 | 1 | 6.0 | 6.0 | ∞ |
| 2 | Isotropy | B | 4.7 | R | √3 | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 1.0 | R | √3 | 1 | 1 | 0.6 | 0.6 | ∞ |
| 4 | Linearity | B | 4.7 | R | √3 | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | N | 1 | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | √3 | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | √3 | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | √3 | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | √3 | 1 | 1 | 0 | 0 | ∞ |
| 10 | RFambient conditions-reflection | B | 0 | R | √3 | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. restrictions | B | 0.4 | R | √3 | 1 | 1 | 0.2 | 0.2 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 2.9 | R | √3 | 1 | 1 | 1.7 | 1.7 | ∞ |
| 13 | Post-processing | B | 1.0 | R | √3 | 1 | 1 | 0.6 | 0.6 | ∞ |
| **Test sample related** | | | | | | | | | | |
| 14 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 15 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 16 | Drift of output power | B | 5.0 | R | √3 | 1 | 1 | 2.9 | 2.9 | ∞ |
| **Phantom and set-up** | | | | | | | | | | |
| 17 | Phantom uncertainty | B | 4.0 | R | √3 | 1 | 1 | 2.3 | 2.3 | ∞ |
| 18 | Liquid conductivity (target) | B | 5.0 | R | √3 | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 19 | Liquid conductivity (meas.) | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |
| 20 | Liquid permittivity (target) | B | 5.0 | R | √3 | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 21 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Combined standard uncertainty | $u_c^{'} = \sqrt{\sum_{i=1}^{21} c_i^2 u_i^2}$ | | | | | 9.55 | 9.43 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | $u_e = 2u_c$ | | | | | 19.1 | 18.9 | |

## 16.2 Measurement Uncertainty for Fast SAR Tests (300MHz~3GHz)

| No. | Error Description | Type | Uncertainty value | Probably Distribution | Div. | (Ci) 1g | (Ci) 10g | Std. Unc. (1g) | Std. Unc. (10g) | Degree of freedom |
|---|---|---|---|---|---|---|---|---|---|---|
| **Measurement system** | | | | | | | | | | |
| 1 | Probe calibration | B | 6.0 | N | 1 | 1 | 1 | 6.0 | 6.0 | ∞ |
| 2 | Isotropy | B | 4.7 | R | $\sqrt{3}$ | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| 3 | Boundary effect | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 4 | Linearity | B | 4.7 | R | $\sqrt{3}$ | 1 | 1 | 2.7 | 2.7 | ∞ |
| 5 | Detection limit | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 6 | Readout electronics | B | 0.3 | R | $\sqrt{3}$ | 1 | 1 | 0.3 | 0.3 | ∞ |
| 7 | Response time | B | 0.8 | R | $\sqrt{3}$ | 1 | 1 | 0.5 | 0.5 | ∞ |
| 8 | Integration time | B | 2.6 | R | $\sqrt{3}$ | 1 | 1 | 1.5 | 1.5 | ∞ |
| 9 | RF ambient conditions-noise | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 10 | RFambient conditions-reflection | B | 0 | R | $\sqrt{3}$ | 1 | 1 | 0 | 0 | ∞ |
| 11 | Probe positioned mech. Restrictions | B | 0.4 | R | $\sqrt{3}$ | 1 | 1 | 0.2 | 0.2 | ∞ |
| 12 | Probe positioning with respect to phantom shell | B | 2.9 | R | $\sqrt{3}$ | 1 | 1 | 1.7 | 1.7 | ∞ |
| 13 | Post-processing | B | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.6 | 0.6 | ∞ |
| 14 | Fast SAR z-Approximation | B | 7.0 | R | $\sqrt{3}$ | 1 | 1 | 4.0 | 4.0 | ∞ |
| **Test sample related** | | | | | | | | | | |
| 15 | Test sample positioning | A | 3.3 | N | 1 | 1 | 1 | 3.3 | 3.3 | 71 |
| 16 | Device holder uncertainty | A | 3.4 | N | 1 | 1 | 1 | 3.4 | 3.4 | 5 |
| 17 | Drift of output power | B | 5.0 | R | $\sqrt{3}$ | 1 | 1 | 2.9 | 2.9 | ∞ |
| **Phantom and set-up** | | | | | | | | | | |
| 18 | Phantom uncertainty | B | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.3 | 2.3 | ∞ |
| 19 | Liquid conductivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| 20 | Liquid conductivity | A | 2.06 | N | 1 | 0.64 | 0.43 | 1.32 | 0.89 | 43 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | (meas.) | | | | | | | | | |
| 21 | Liquid permittivity (target) | B | 5.0 | R | $\sqrt{3}$ | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| 22 | Liquid permittivity (meas.) | A | 1.6 | N | 1 | 0.6 | 0.49 | 1.0 | 0.8 | 521 |
| Combined standard uncertainty | | $u_c' = \sqrt{\sum_{i=1}^{22} c_i^2 u_i^2}$ | | | | | | 10.4 | 10.3 | 257 |
| Expanded uncertainty (confidence interval of 95 %) | | $u_e = 2u_c$ | | | | | | 20.8 | 20.6 | |

# 17 MAIN TEST INSTRUMENTS

**Table 17.1: List of Main Instruments**

| No. | Name | Type | Serial Number | Calibration Date | Valid Period |
|---|---|---|---|---|---|
| 01 | Network analyzer | E5071C | MY46110673 | January 14, 2021 | One year |
| 02 | Power meter | NRVD | 102083 | October 23，2020 | One year |
| 03 | Power sensor | NRV-Z5 | 100542 | | |
| 04 | Signal Generator | E4438C | MY49071430 | February 1, 2021 | One Year |
| 05 | Amplifier | 60S1G4 | 0331848 | No Calibration Requested | |
| 06 | BTS | CMW500 | 159890 | January 25 2021 | One year |
| 07 | BTS | CMW500 | 159889 | January 13 2021 | One year |
| 08 | E-field Probe | SPEAG EX3DV4 | 7464 | December 18,2020 | One year |
| 09 | DAE | SPEAG DAE4 | 1588 | September 2, 2020 | One year |
| 10 | Dipole Validation Kit | SPEAG D750V3 | 1017 | July 24,2020 | One year |
| 11 | Dipole Validation Kit | SPEAG D835V2 | 4d069 | July 24,,2020 | One year |
| 12 | Dipole Validation Kit | SPEAG D1750V2 | 1003 | July 24, 2020 | One year |
| 13 | Dipole Validation Kit | SPEAG D1900V2 | 5d101 | July 28,2020 | One year |
| 14 | Dipole Validation Kit | SPEAG D2450V2 | 853 | July 21,2020 | One year |
| 15 | Dipole Validation Kit | SPEAG D2600V2 | 1012 | July 21,2020 | One year |

***END OF REPORT BODY***

# ANNEX A Graph Results

**GSM850 Head**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 848.8 MHz; $\sigma$ = 0.897 S/m; $\varepsilon_r$ = 44.12; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, GSM 850 (0) Frequency: 848.8 MHz Duty Cycle: 1:8.30042
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 848.8 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.190 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.080 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.194 W/kg
**SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.120 W/kg**
Maximum value of SAR (measured) = 0.163 W/kg

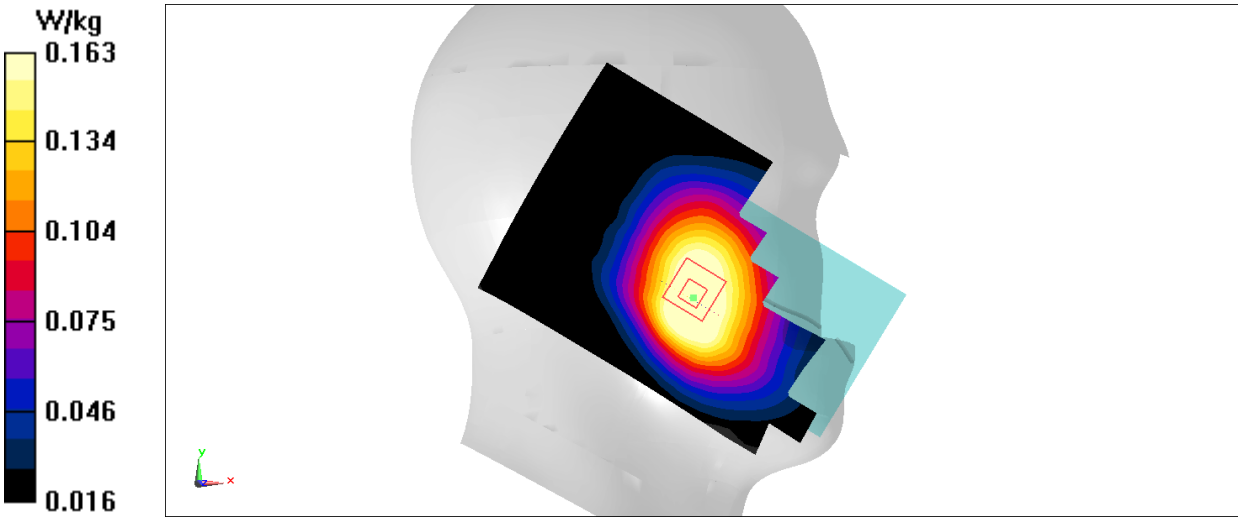



**Fig. A-1**

**GSM850 Body**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 848.8 MHz; $\sigma$ = 0.897 S/m; $\varepsilon_r$ = 44.12; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, GSM 850 GPRS-2 (0) Frequency: 848.8 MHz Duty Cycle: 1:4.00037
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 848.8 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.385 W/kg

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.47 V/m; Power Drift = 0.13 dB
Peak SAR (extrapolated) = 0.430 W/kg
**SAR(1 g) = 0.326 W/kg; SAR(10 g) = 0.253 W/kg**
Maximum value of SAR (measured) = 0.393 W/kg

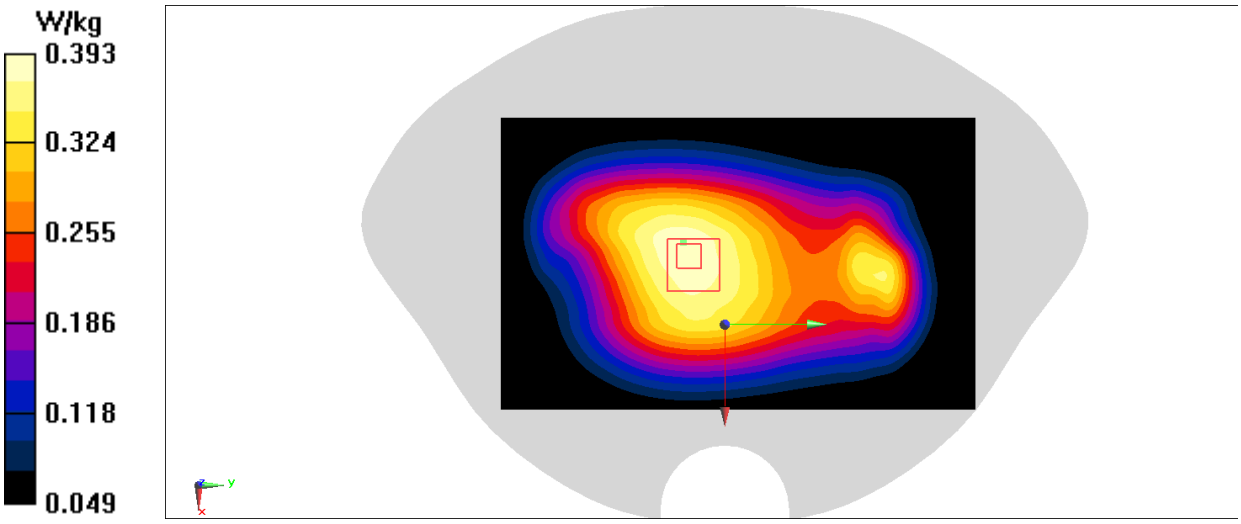



**Fig. A-2**

**GSM1900 Head**
Date/Time: 5/23/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma$ = 1.477 S/m; $\varepsilon_r$ = 41.905; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.5ºC Liquid Temperature: 21.9ºC
Communication System: UID 0, GSM 1900 (0) Frequency: 1850.2 MHz Duty Cycle: 1:8.30042
Probe: EX3DV4 - SN7464 ConvF(8.15, 8.15, 8.15) @ 1850.2 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.274 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 1.650 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.295 W/kg
**SAR(1 g) = 0.194 W/kg; SAR(10 g) = 0.123 W/kg**
Maximum value of SAR (measured) = 0.256 W/kg

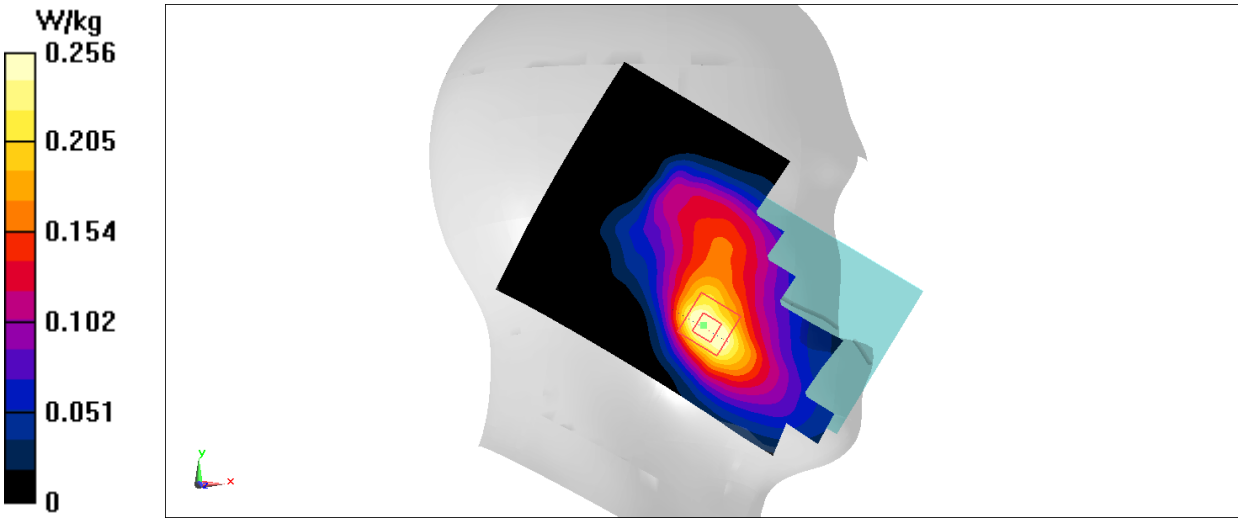



**Fig. A-3**

**GSM1900 Body**
Date/Time: 5/25/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 1850.2 MHz; $\sigma$ = 1.464 S/m; $\varepsilon_r$ = 40.696; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.8ºC Liquid Temperature: 21.2ºC
Communication System: UID 0, GSM 1900 GPRS-2 (0) Frequency: 1850.2 MHz Duty Cycle: 1:4.00037
Probe: EX3DV4 - SN7464 ConvF(8.15, 8.15, 8.15) @ 1850.2 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.30 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.67 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 1.51 W/kg
**SAR(1 g) = 0.867 W/kg; SAR(10 g) = 0.473 W/kg**
Maximum value of SAR (measured) = 1.29 W/kg

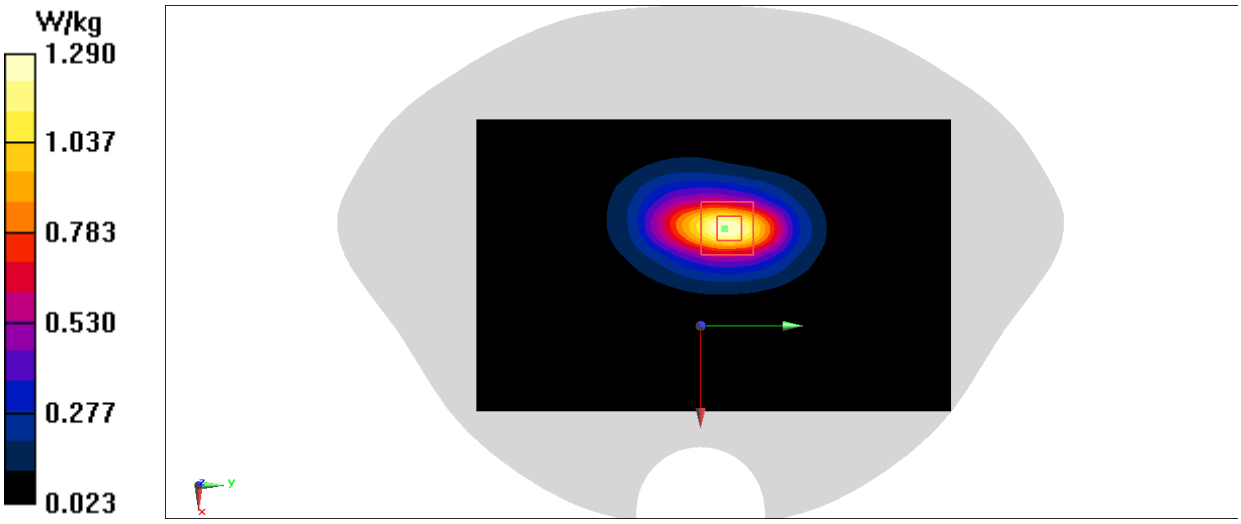



**Fig. A-4**

**WCDMA1900 Head**
Date/Time: 5/23/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma$ = 1.478 S/m; $\varepsilon_r$ = 41.897; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.5ºC Liquid Temperature: 21.9ºC
Communication System: UID 0, WCDMA 1900 (0) Frequency: 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.15, 8.15, 8.15) @ 1852.4 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.677 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.821 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.724 W/kg
**SAR(1 g) = 0.484 W/kg; SAR(10 g) = 0.313 W/kg**
Maximum value of SAR (measured) = 0.629 W/kg

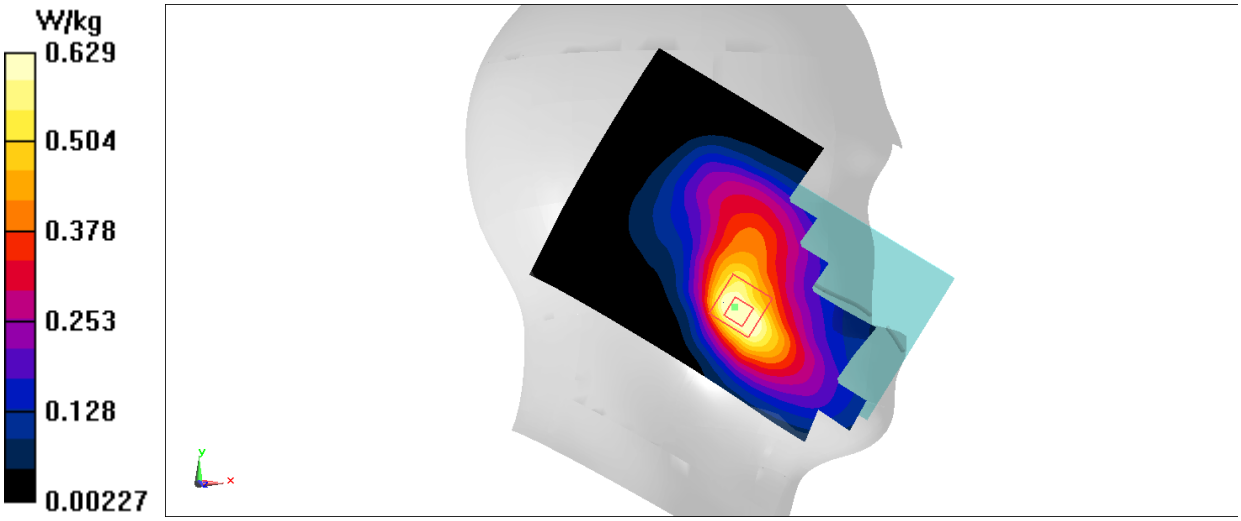



**Fig. A-5**

**WCDMA1900 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 1852.4 MHz; $\sigma$ = 1.465 S/m; $\varepsilon_r$ = 40.692; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, WCDMA 1900 (0) Frequency: 1852.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.15, 8.15, 8.15) @ 1852.4 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.64 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.70 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.95 W/kg
**SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.612 W/kg**
Maximum value of SAR (measured) = 1.63 W/kg

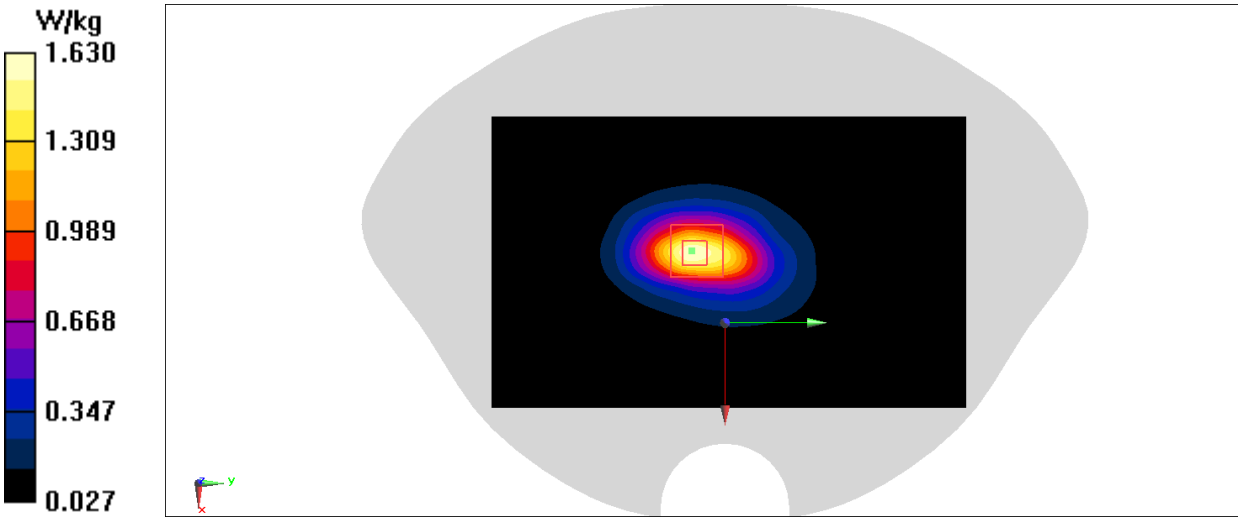



**Fig. A-6**

**WCDMA1700 Head**
Date/Time: 5/23/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 1712.4 MHz; $\sigma$ = 1.359 S/m; $\varepsilon_r$ = 42.385; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.5ºC Liquid Temperature: 21.9ºC
Communication System: UID 0, WCDMA 1700 Band4 (0) Frequency: 1712.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.6, 8.6, 8.6) @ 1712.4 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.430 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.995 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.465 W/kg
**SAR(1 g) = 0.319 W/kg; SAR(10 g) = 0.210 W/kg**
Maximum value of SAR (measured) = 0.407 W/kg

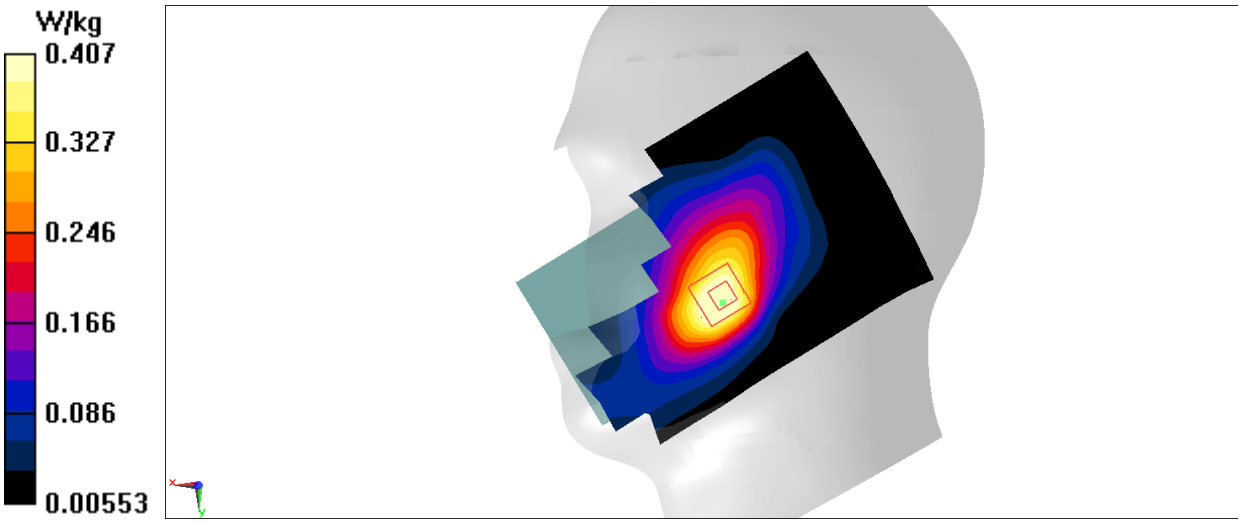



**Fig. A-7**

**WCDMA1700 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 1712.4 MHz; $\sigma$ = 1.386 S/m; $\varepsilon_r$ = 41.134; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, WCDMA 1700 Band4 (0) Frequency: 1712.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.6, 8.6, 8.6) @ 1712.4 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.76 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.05 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 2.04 W/kg
**SAR(1 g) = 1.16 W/kg; SAR(10 g) = 0.626 W/kg**
Maximum value of SAR (measured) = 1.70 W/kg

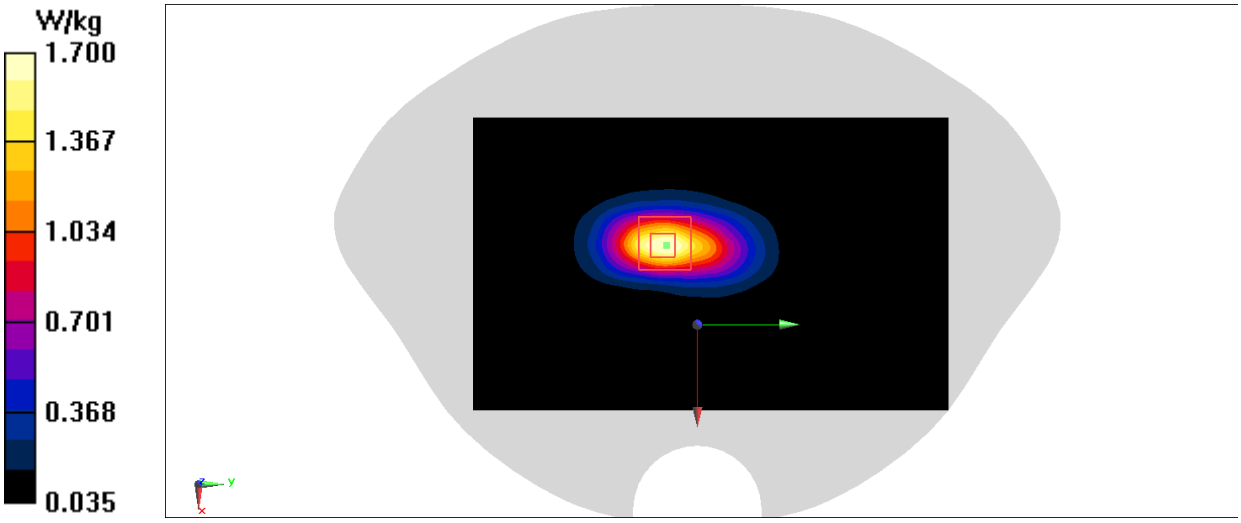



**Fig. A-8**

**WCDMA1700 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 1712.4 MHz; $\sigma$ = 1.386 S/m; $\varepsilon_r$ = 41.134; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, WCDMA 1700 Band4 (0) Frequency: 1712.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.6, 8.6, 8.6) @ 1712.4 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.23 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.530 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.46 W/kg
**SAR(1 g) = 0.872 W/kg; SAR(10 g) = 0.492 W/kg**
Maximum value of SAR (measured) = 1.25 W/kg

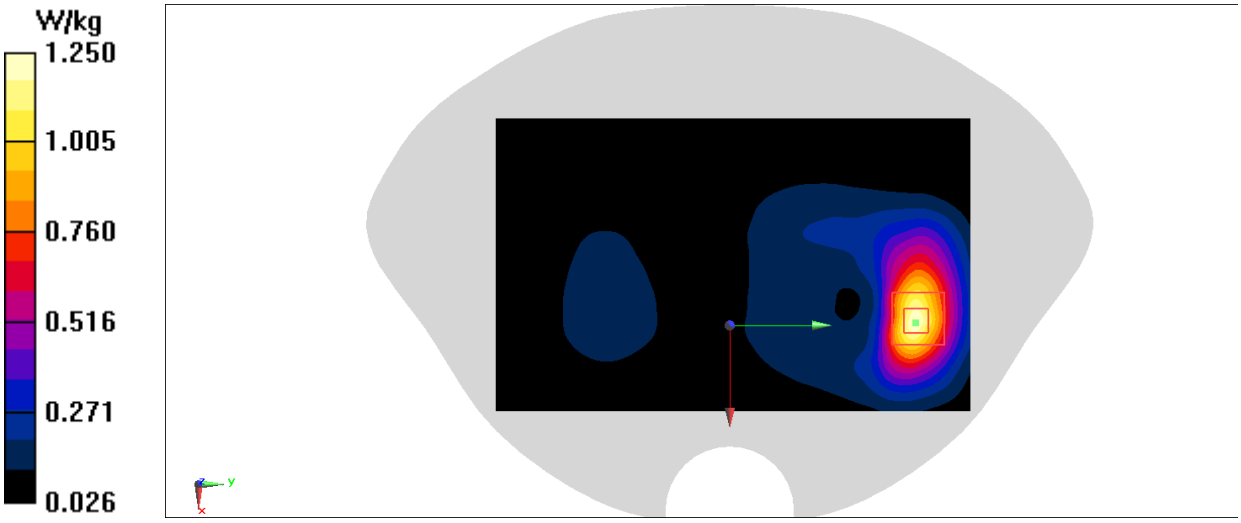



**Fig. A-9**

**WCDMA850 Head**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 836.6 MHz; $\sigma$ = 0.892 S/m; $\varepsilon_r$ = 44.15; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, WCDMA 850 (0) Frequency: 836.6 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 836.6 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.273 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.972 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 0.272 W/kg
**SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.175 W/kg**
Maximum value of SAR (measured) = 0.234 W/kg

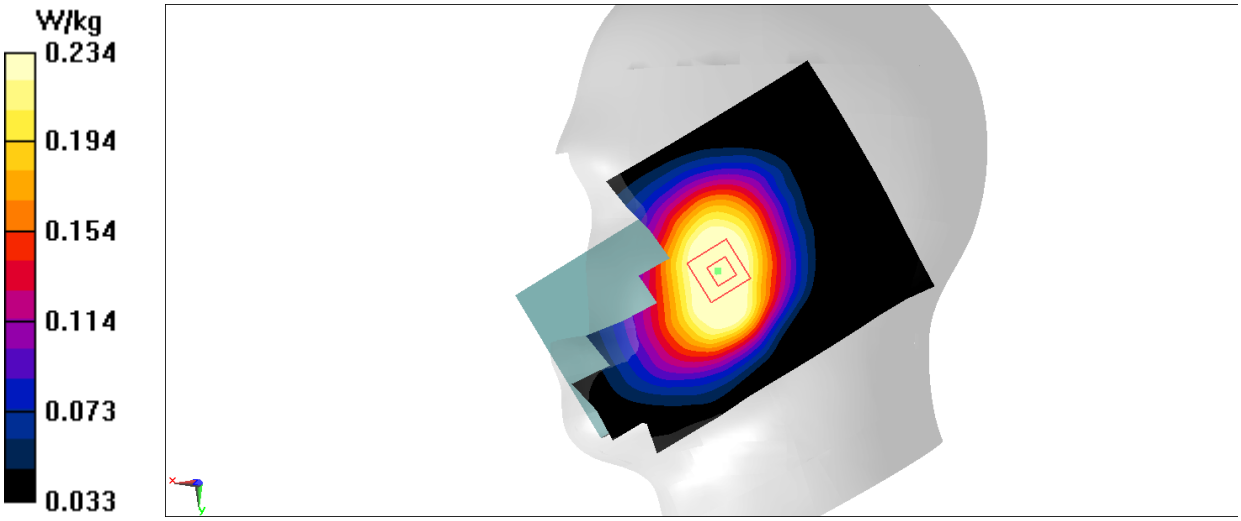



**Fig. A-10**

**WCDMA850 Body**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 826.4 MHz; $\sigma$ = 0.888 S/m; $\varepsilon_r$ = 44.183; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, WCDMA 850 (0) Frequency: 826.4 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 826.4 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.435 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.41 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.430 W/kg
**SAR(1 g) = 0.347 W/kg; SAR(10 g) = 0.269 W/kg**
Maximum value of SAR (measured) = 0.361 W/kg

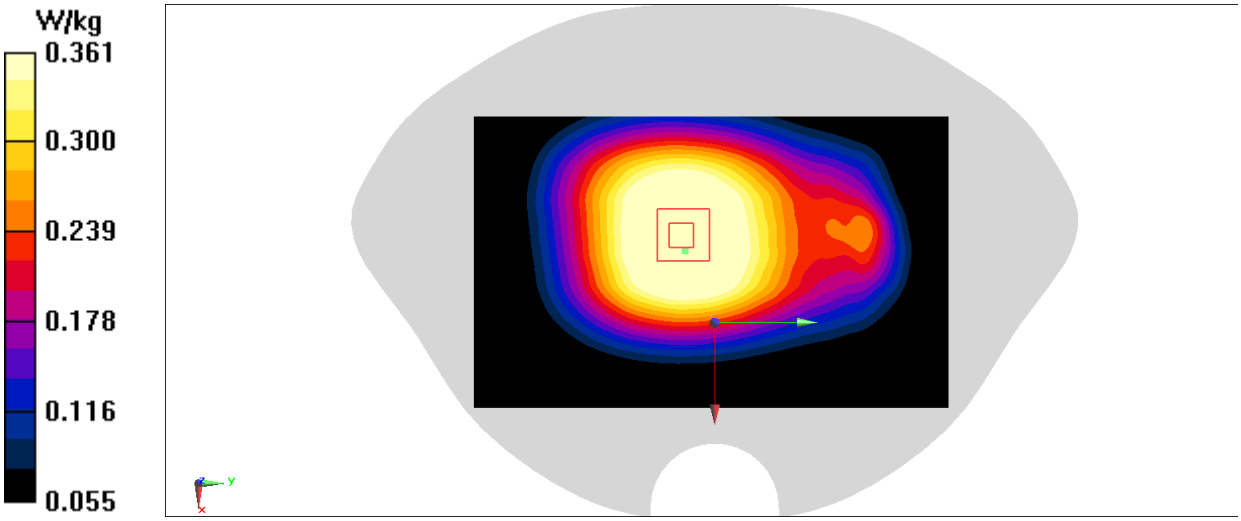



**Fig. A-11**

**LTE Band12 Head**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 704 MHz; $\sigma$ = 0.839 S/m; $\varepsilon_r$ = 44.589; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, LTE Band12 (0) Frequency: 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 704 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.375 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 7.688 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 0.378 W/kg
**SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.251 W/kg**
Maximum value of SAR (measured) = 0.327 W/kg

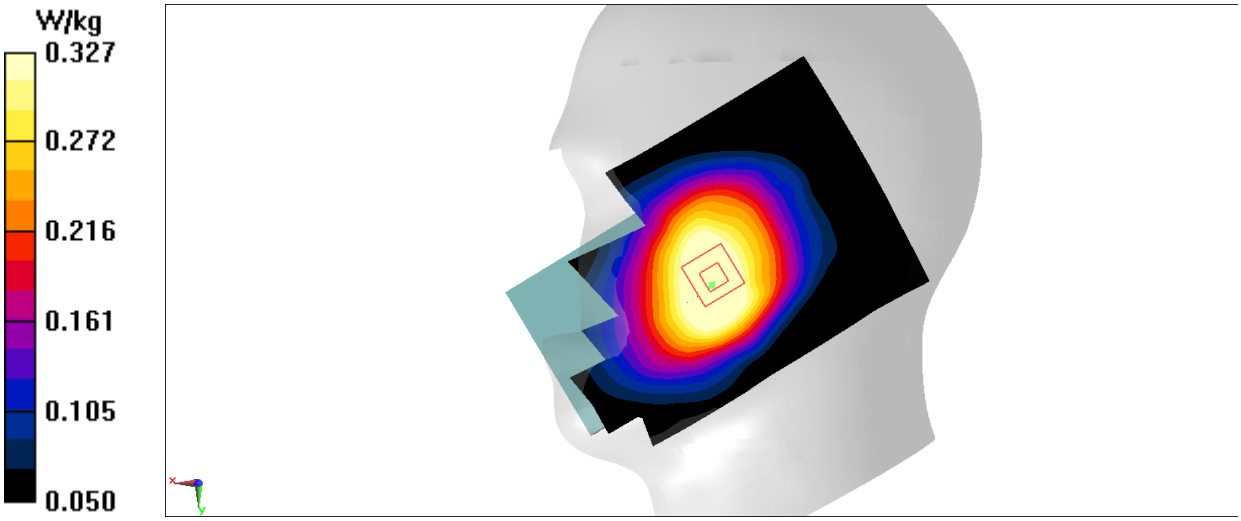



**Fig. A-12**

**LTE Band12 Body**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 704 MHz; $\sigma$ = 0.839 S/m; $\varepsilon_r$ = 44.589; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, LTE Band12 (0) Frequency: 704 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 704 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.526 W/kg

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.11 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.582 W/kg
**SAR(1 g) = 0.445 W/kg; SAR(10 g) = 0.351 W/kg**
Maximum value of SAR (measured) = 0.532 W/kg

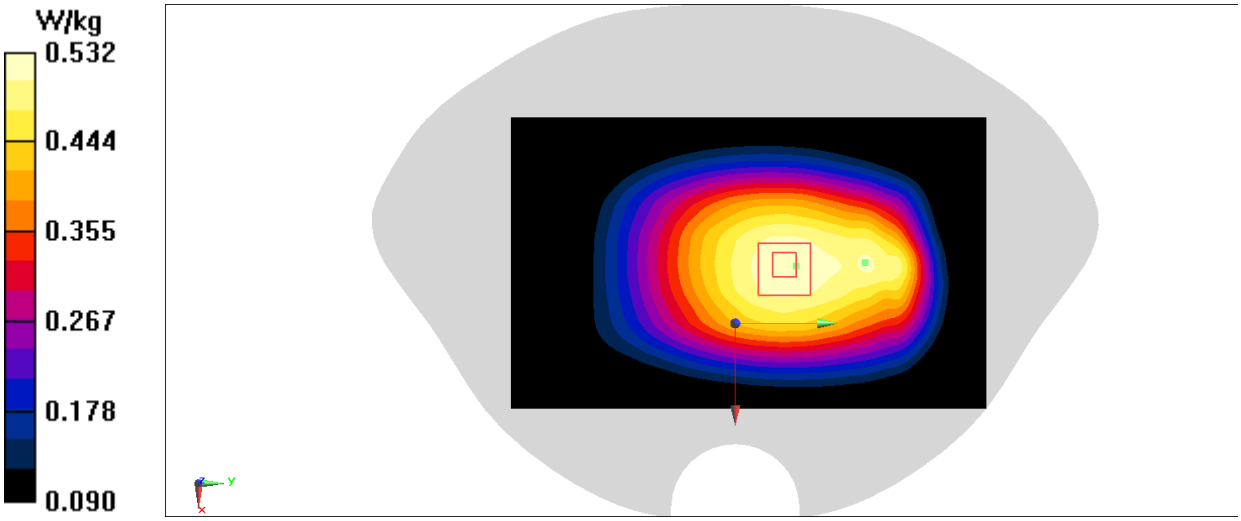



**Fig. A-13**

**LTE Band13 Head**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 782 MHz; $\sigma$ = 0.87 S/m; $\varepsilon_r$ = 44.319; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, LTE Band13 (0) Frequency: 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 782 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.371 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.309 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.372 W/kg
**SAR(1 g) = 0.309 W/kg; SAR(10 g) = 0.244 W/kg**
Maximum value of SAR (measured) = 0.319 W/kg

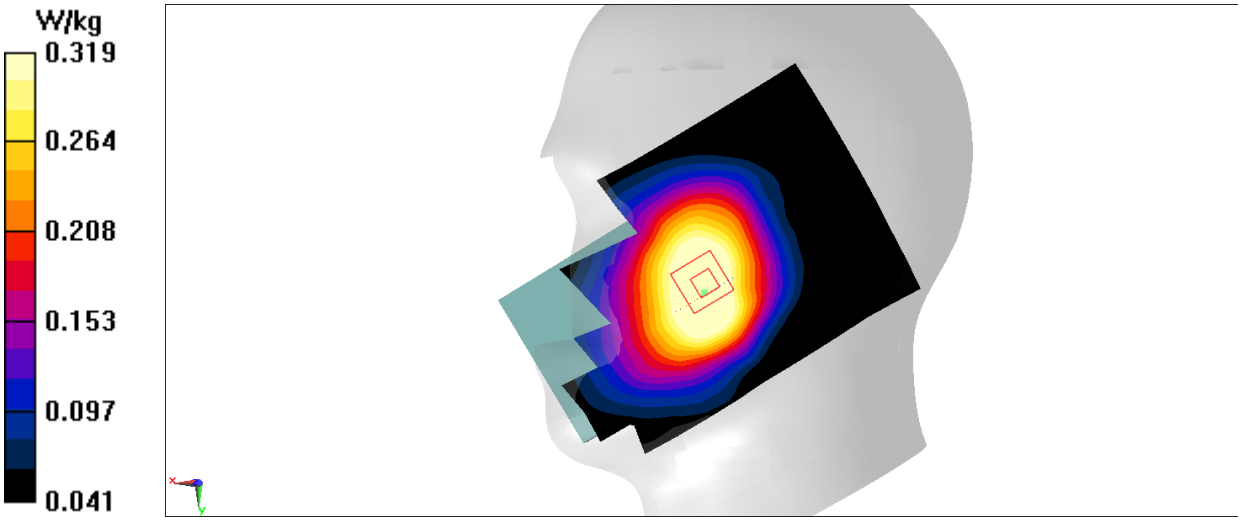



**Fig. A-14**

**LTE Band13 Body**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 782 MHz; $\sigma$ = 0.87 S/m; $\varepsilon_r$ = 44.319; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, LTE Band13 (0) Frequency: 782 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 782 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.597 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.39 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.668 W/kg
**SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.401 W/kg**
Maximum value of SAR (measured) = 0.610 W/kg

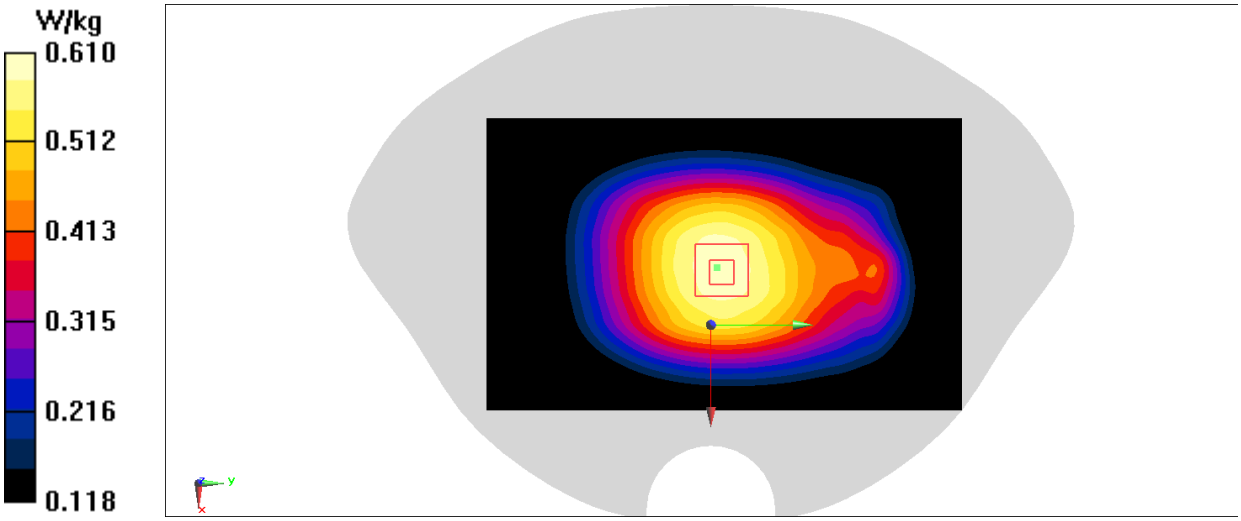



**Fig. A-15**

**LTE Band25 Head**
Date/Time: 5/23/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.484 S/m; $\varepsilon_r$ = 41.867; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.5ºC Liquid Temperature: 21.9ºC
Communication System: UID 0, LTE Band25 (0) Frequency: 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.15, 8.15, 8.15) @ 1860 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.656 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.958 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 0.705 W/kg
**SAR(1 g) = 0.469 W/kg; SAR(10 g) = 0.304 W/kg**
Maximum value of SAR (measured) = 0.620 W/kg

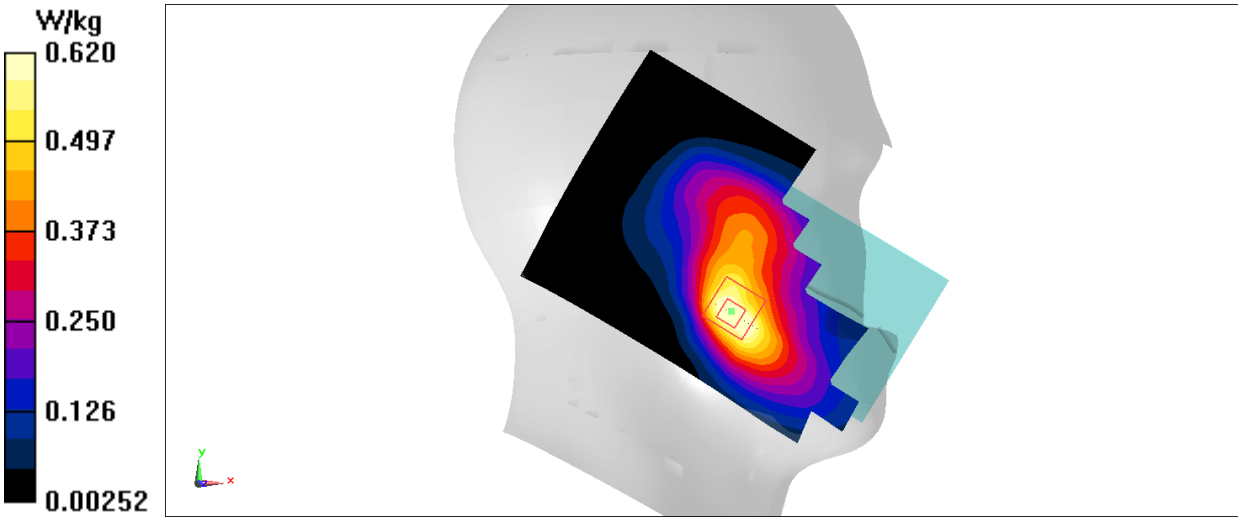



**Fig. A-16**

**LTE Band25 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.469 S/m; $\varepsilon_r$ = 40.68; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, LTE Band25 (0) Frequency: 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.15, 8.15, 8.15) @ 1860 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.34 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 22.84 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.46 W/kg
**SAR(1 g) = 0.874 W/kg; SAR(10 g) = 0.484 W/kg**
Maximum value of SAR (measured) = 0.969 W/kg

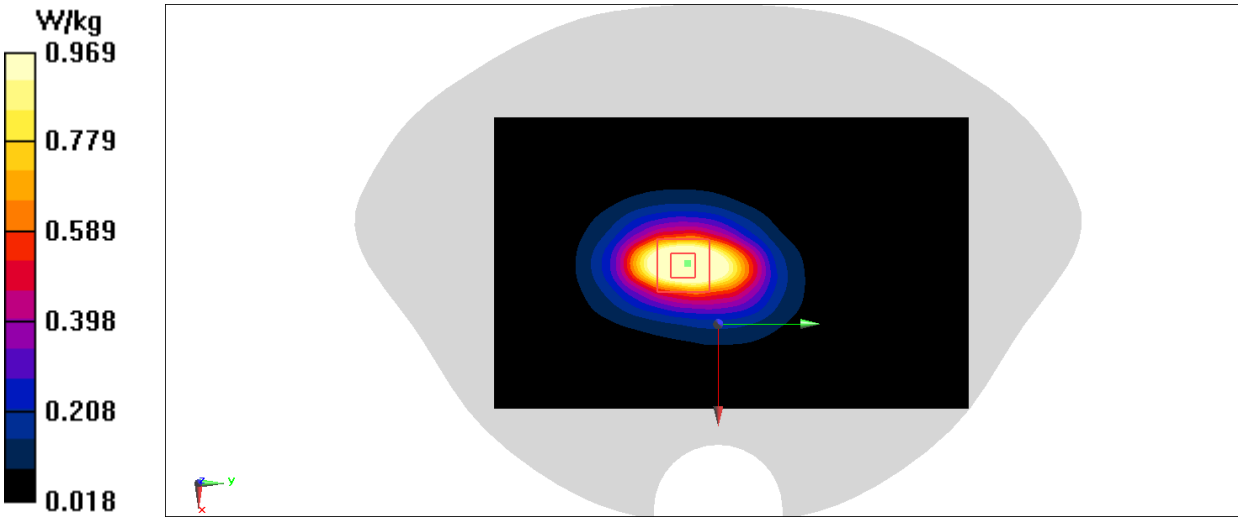



**Fig. A-17**

**LTE Band25 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used: f = 1860 MHz; $\sigma$ = 1.469 S/m; $\varepsilon_r$ = 40.68; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, LTE Band25 (0) Frequency: 1860 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.15, 8.15, 8.15) @ 1860 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.495 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.741 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 0.578 W/kg
**SAR(1 g) = 0.340 W/kg; SAR(10 g) = 0.201 W/kg**
Maximum value of SAR (measured) = 0.491 W/kg

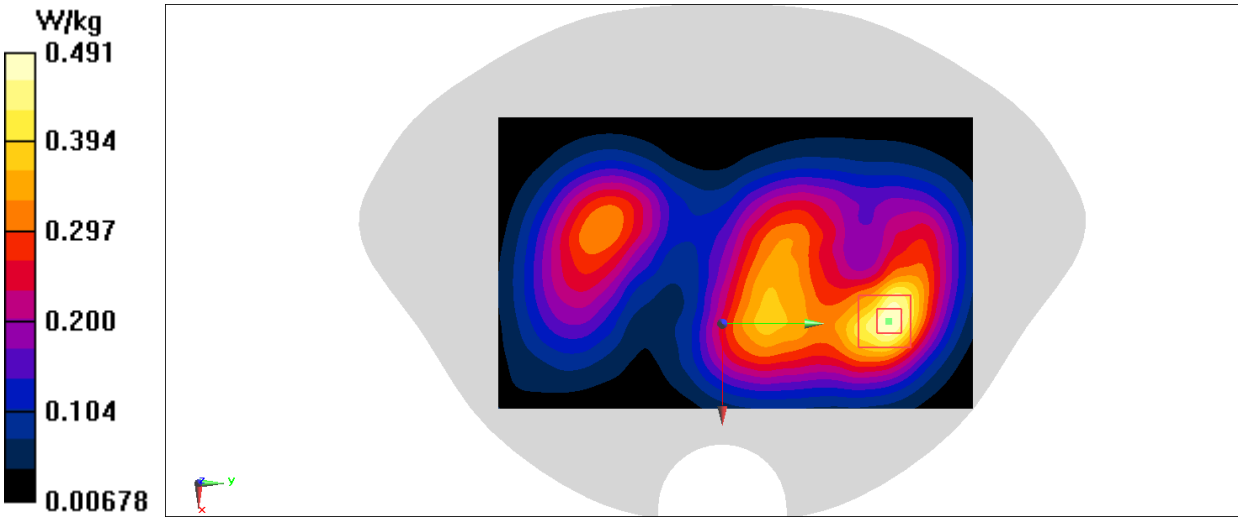



**Fig. A-18**

**LTE Band26 Head**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 831.5 MHz; $\sigma$ = 0.89 S/m; $\varepsilon_r$ = 44.166; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, LTE Band26 (0) Frequency: 831.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 831.5 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.348 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 2.232 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.384 W/kg
**SAR(1 g) = 0.297 W/kg; SAR(10 g) = 0.234 W/kg**
Maximum value of SAR (measured) = 0.354 W/kg

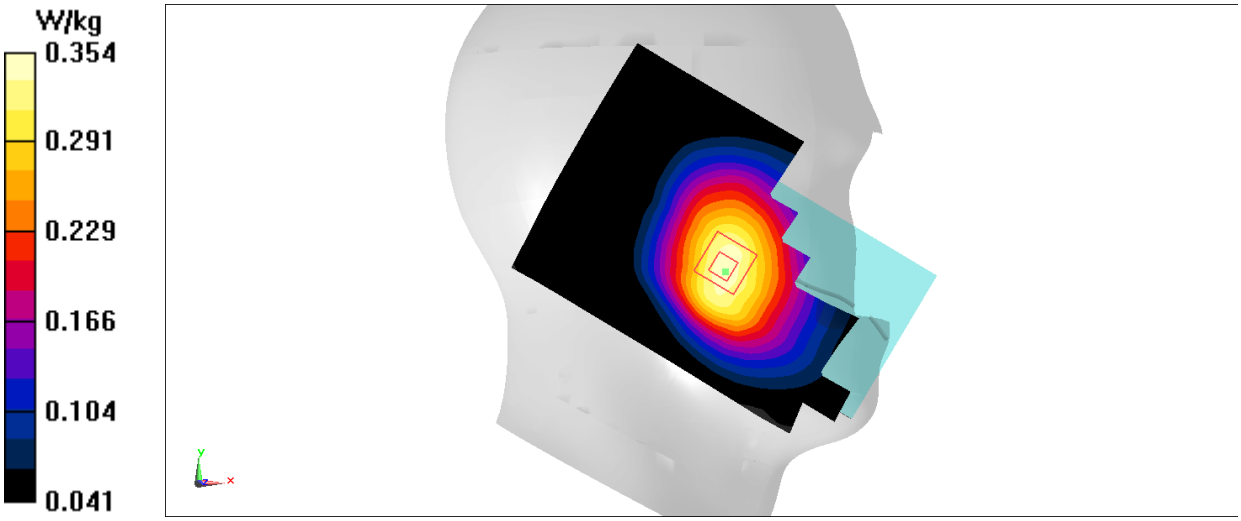



**Fig. A-19**

**LTE Band26 Body**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 831.5 MHz; $\sigma$ = 0.89 S/m; $\varepsilon_r$ = 44.166; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, LTE Band26 (0) Frequency: 831.5 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 831.5 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.544 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.51 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.606 W/kg
**SAR(1 g) = 0.457 W/kg; SAR(10 g) = 0.358 W/kg**
Maximum value of SAR (measured) = 0.550 W/kg

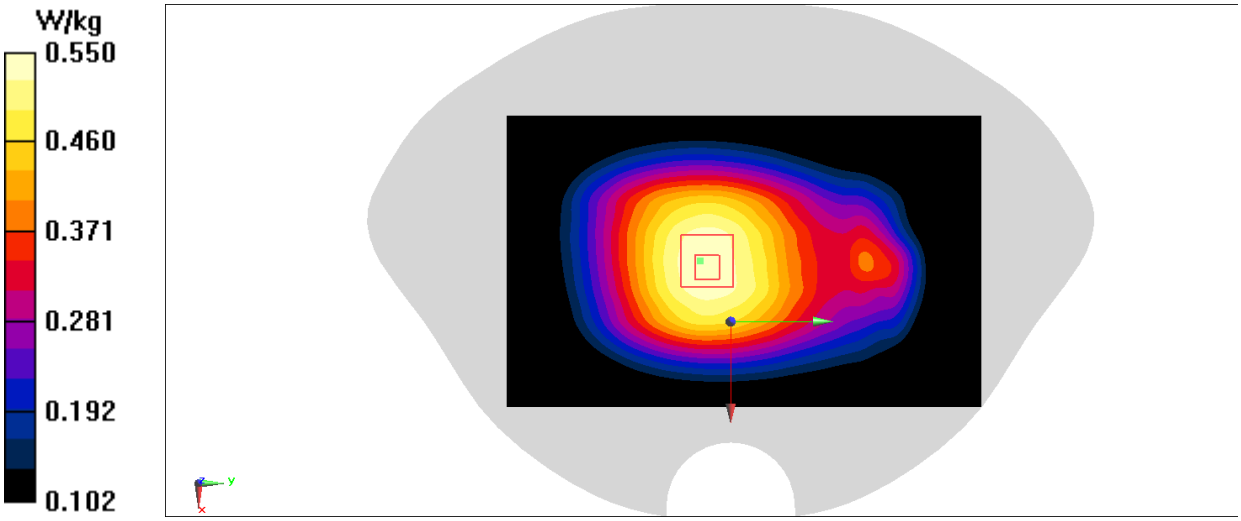



**Fig. A-20**

**LTE Band41 Head**
Date/Time: 5/23/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2593 MHz; $\sigma$ = 2.057 S/m; $\varepsilon_r$ = 40.544; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.5ºC Liquid Temperature: 21.9ºC
Communication System: UID 0, LTE Band41 (0) Frequency: 2593 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - SN7464 ConvF(7.47, 7.47, 7.47) @ 2593 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.159 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.430 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 0.171 W/kg
**SAR(1 g) = 0.096 W/kg; SAR(10 g) = 0.052 W/kg**
Smallest distance from peaks to all points 3 dB below = 11 mm
Maximum value of SAR (measured) = 0.142 W/kg

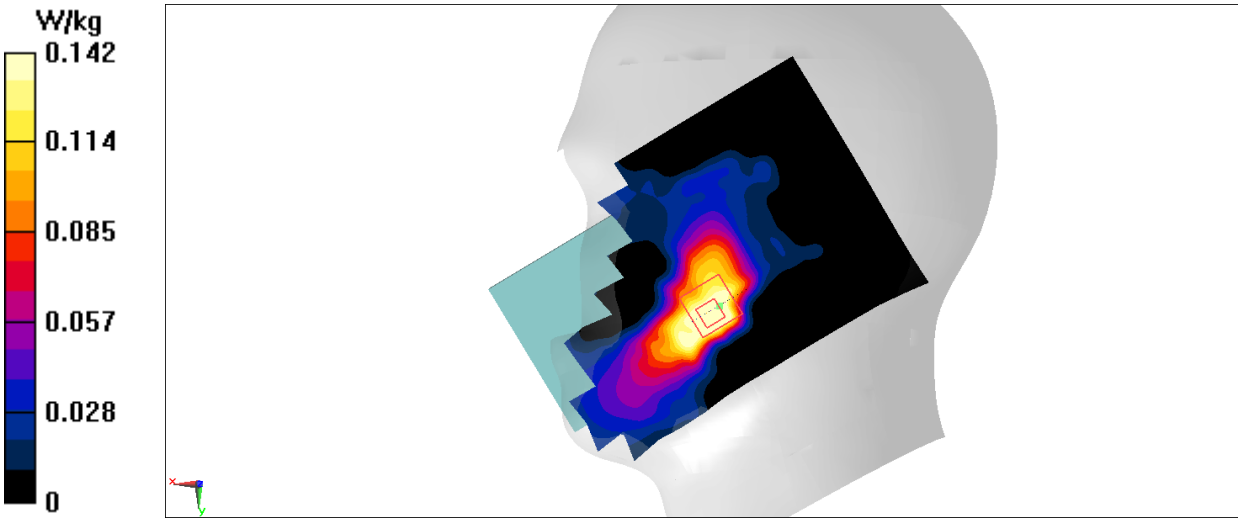



**Fig. A-21**

**LTE Band41 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2636.5 MHz; $\sigma$ = 2.074 S/m; $\varepsilon_r$ = 39.232; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, LTE Band41 (0) Frequency: 2636.5 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - SN7464 ConvF(7.47, 7.47, 7.47) @ 2636.5 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.92 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.361 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 2.13 W/kg
**SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.463 W/kg**
Maximum value of SAR (measured) = 1.74 W/kg

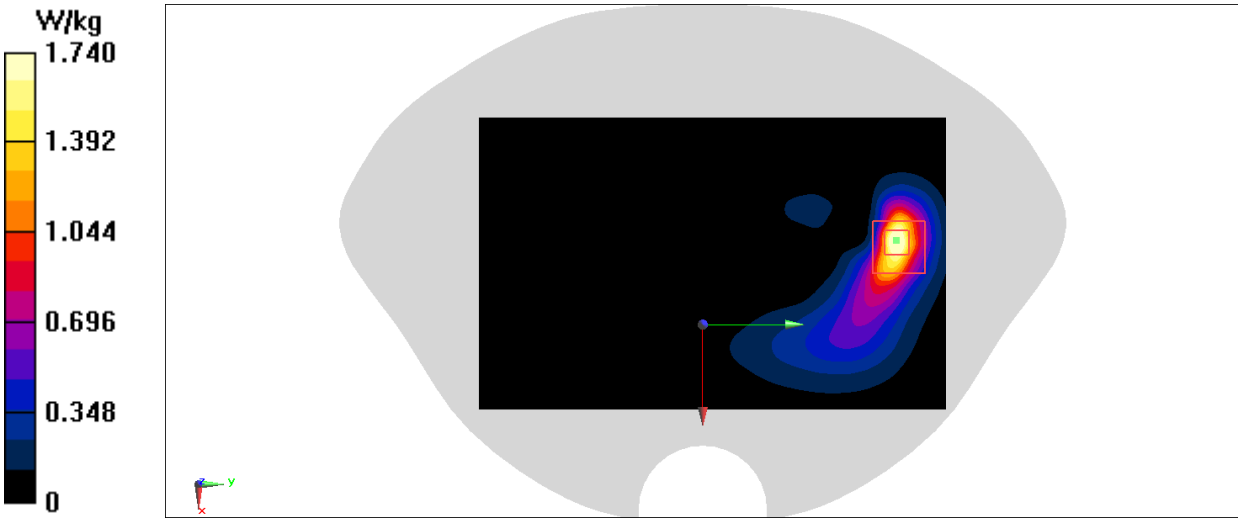



**Fig. A-22**

**LTE Band41 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2593 MHz; $\sigma$ = 2.042 S/m; $\varepsilon_r$ = 39.327; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, LTE Band41 (0) Frequency: 2593 MHz Duty Cycle: 1:1.5787
Probe: EX3DV4 - SN7464 ConvF(7.47, 7.47, 7.47) @ 2593 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.746 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 2.790 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.880 W/kg
**SAR(1 g) = 0.452 W/kg; SAR(10 g) = 0.220 W/kg**
Maximum value of SAR (measured) = 0.723 W/kg

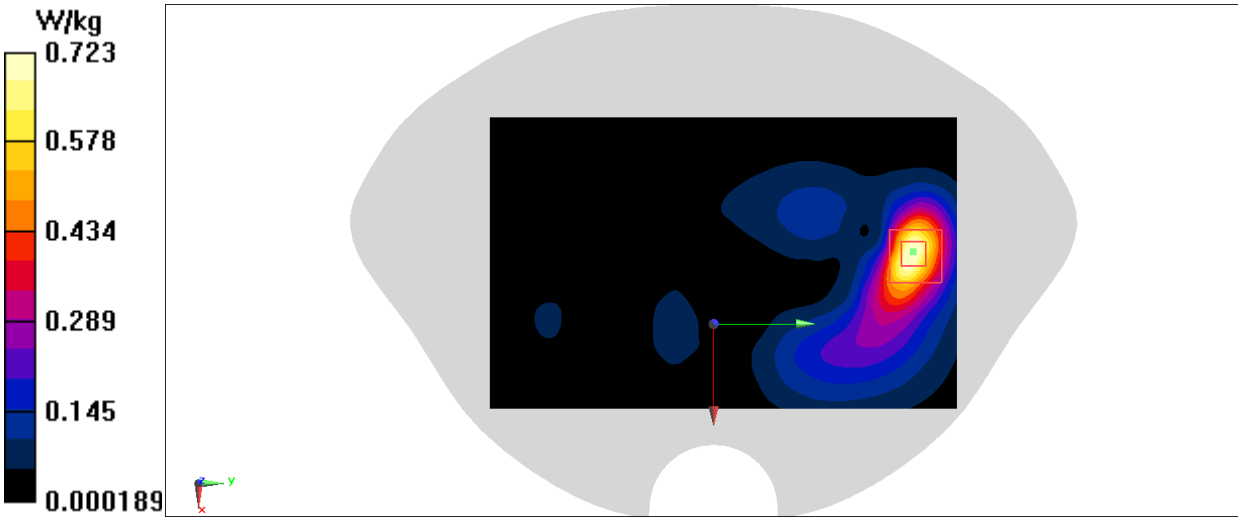



**Fig. A-23**

**LTE Band41 HPUE Head**
Date/Time: 5/23/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2593 MHz; $\sigma$ = 2.057 S/m; $\varepsilon_r$ = 40.544; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.5ºC Liquid Temperature: 21.9ºC
Communication System: UID 0, LTE Band41 (0) Frequency: 2593 MHz Duty Cycle: 1:2.309
Probe: EX3DV4 - SN7464 ConvF(7.47, 7.47, 7.47) @ 2593 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.219 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 1.402 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.241 W/kg
**SAR(1 g) = 0.135 W/kg; SAR(10 g) = 0.075 W/kg**
Maximum value of SAR (measured) = 0.202 W/kg

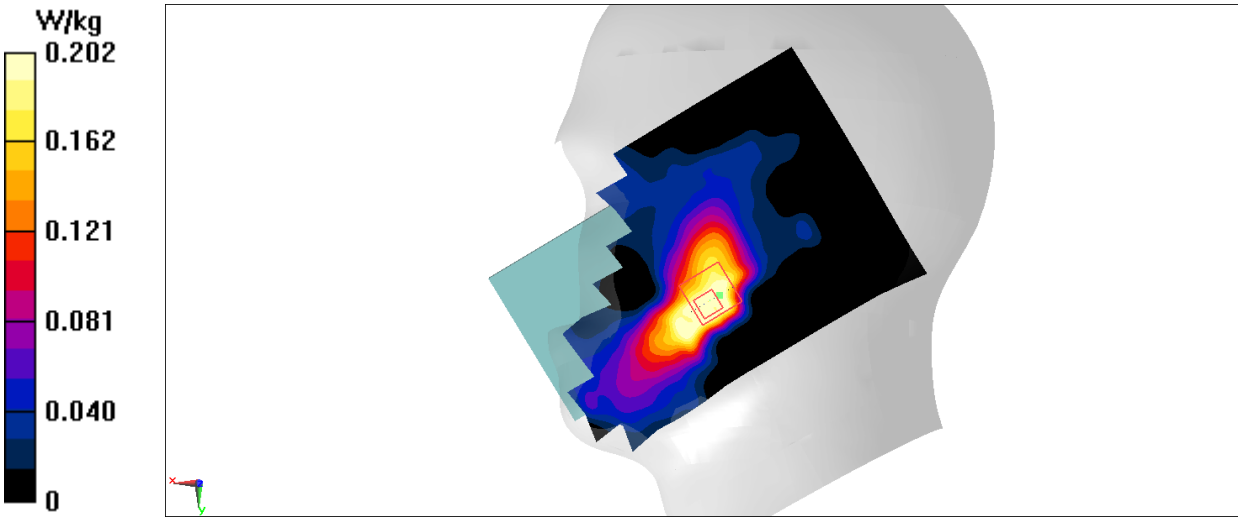



**Fig. A-24**

**LTE Band41 HPUE Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2636.5 MHz; $\sigma$ = 2.074 S/m; $\varepsilon_r$ = 39.232; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, LTE Band41 (0) Frequency: 2636.5 MHz Duty Cycle: 1:2.309
Probe: EX3DV4 - SN7464 ConvF(7.47, 7.47, 7.47) @ 2636.5 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.85 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.338 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 2.21 W/kg
**SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.477 W/kg**
Maximum value of SAR (measured) = 1.79 W/kg

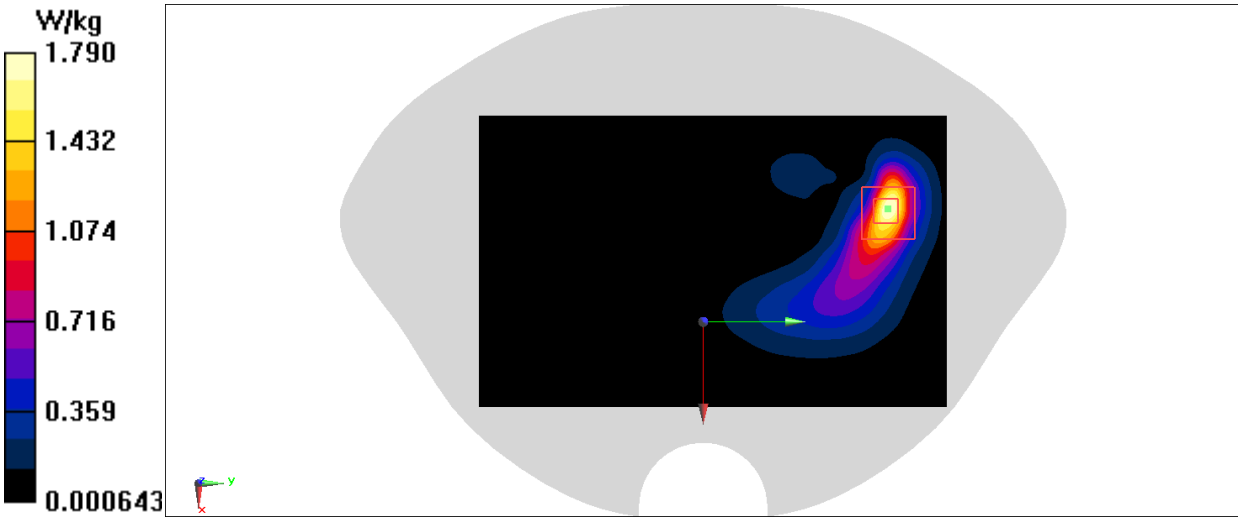



**Fig. A-25**

**LTE Band41 HPUE Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2636.5 MHz; $\sigma$ = 2.074 S/m; $\varepsilon_r$ = 39.232; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, LTE Band41 (0) Frequency: 2636.5 MHz Duty Cycle: 1:2.309
Probe: EX3DV4 - SN7464 ConvF(7.47, 7.47, 7.47) @ 2636.5 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.52 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 3.053 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.74 W/kg
**SAR(1 g) = 0.894 W/kg; SAR(10 g) = 0.432 W/kg**
Maximum value of SAR (measured) = 1.42 W/kg

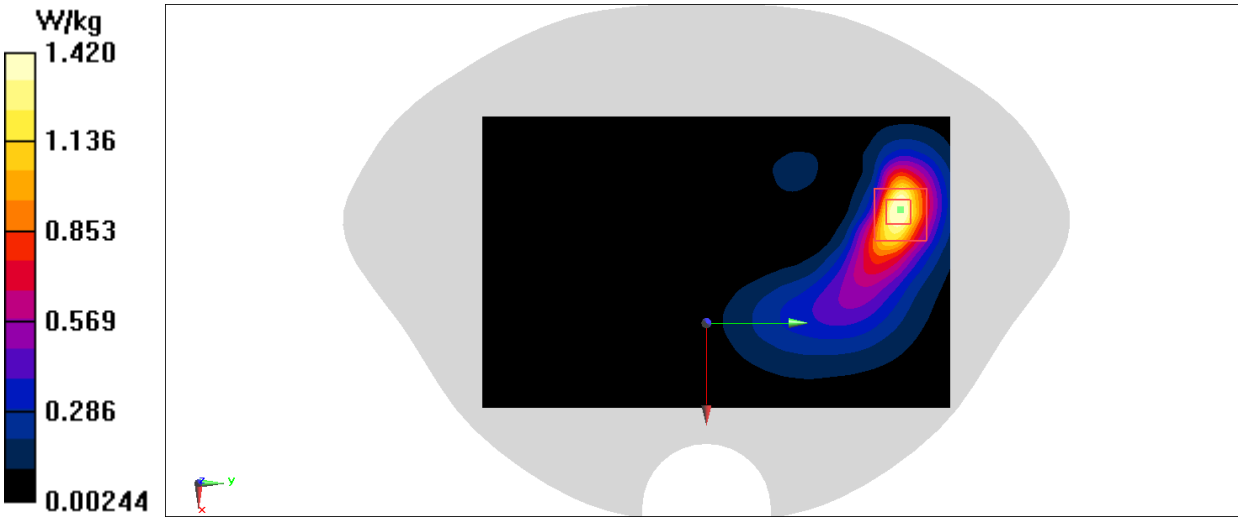



**Fig. A-26**

**LTE Band66 Head**
Date/Time: 5/23/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used: f = 1770 MHz; $\sigma$ = 1.415 S/m; $\varepsilon_r$ = 42.234; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.5ºC Liquid Temperature: 21.9ºC
Communication System: UID 0, LTE Band66 (0) Frequency: 1770 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.6, 8.6, 8.6) @ 1770 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.478 W/kg

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 3.088 V/m; Power Drift = 0.18 dB
Peak SAR (extrapolated) = 0.540 W/kg
**SAR(1 g) = 0.363 W/kg; SAR(10 g) = 0.233 W/kg**
Maximum value of SAR (measured) = 0.466 W/kg

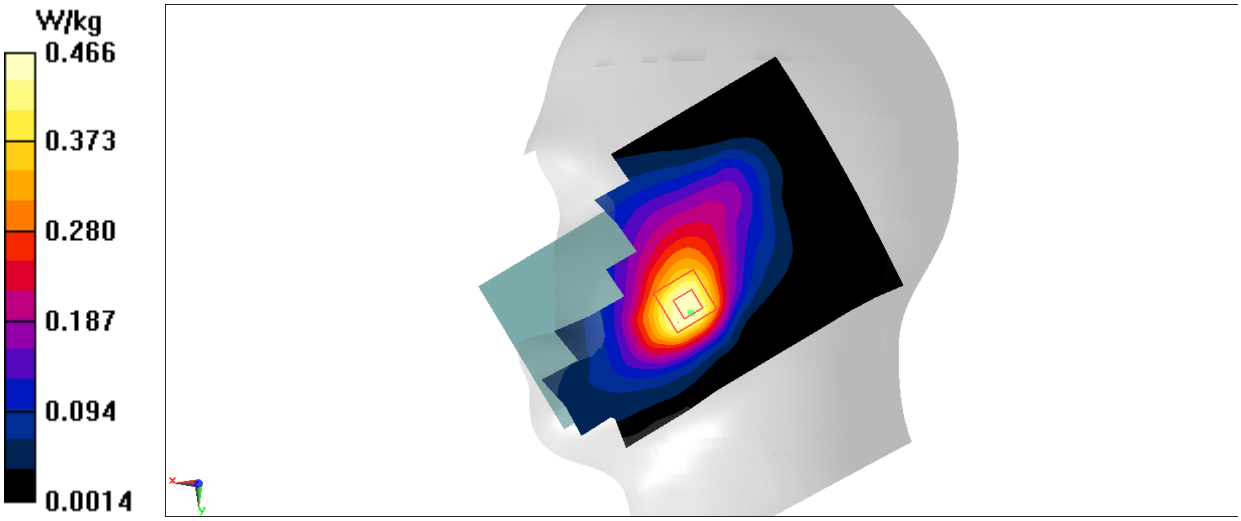



**Fig. A-27**

**LTE Band66 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used: f = 1720 MHz; $\sigma$ = 1.391 S/m; $\varepsilon_r$ = 41.103; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, LTE Band66 (0) Frequency: 1720 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.6, 8.6, 8.6) @ 1720 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.25 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.65 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 1.39 W/kg
**SAR(1 g) = 0.815 W/kg; SAR(10 g) = 0.441 W/kg**
Maximum value of SAR (measured) = 0.899 W/kg

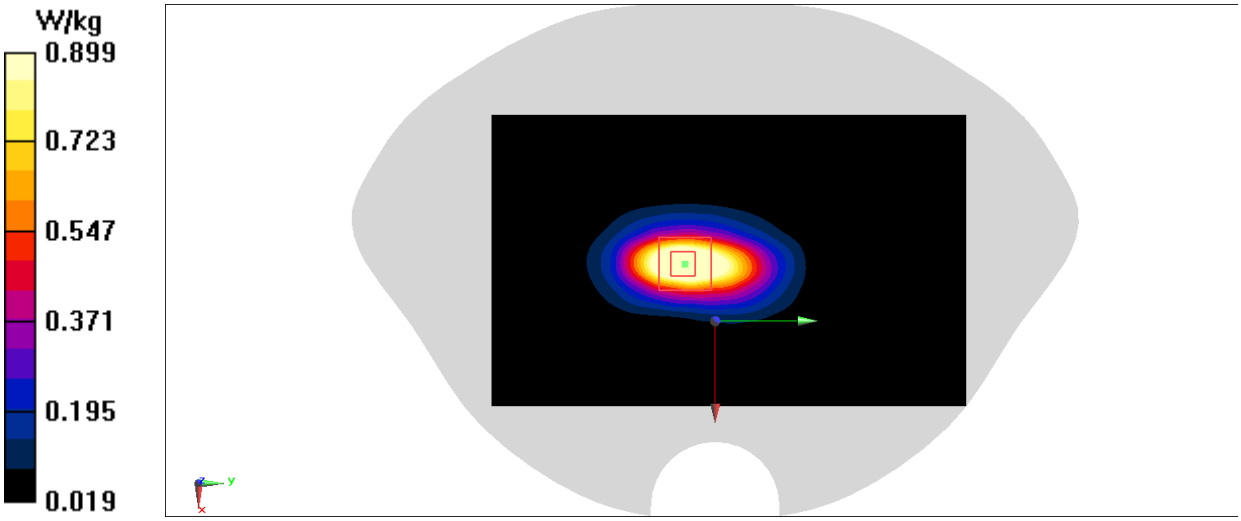



**Fig. A-28**

**LTE Band66 Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used: f = 1770 MHz; $\sigma$ = 1.42 S/m; $\varepsilon_r$ = 40.91; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, LTE Band66 (0) Frequency: 1770 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(8.6, 8.6, 8.6) @ 1770 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.547 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.431 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.657 W/kg
**SAR(1 g) = 0.397 W/kg; SAR(10 g) = 0.229 W/kg**
Maximum value of SAR (measured) = 0.563 W/kg

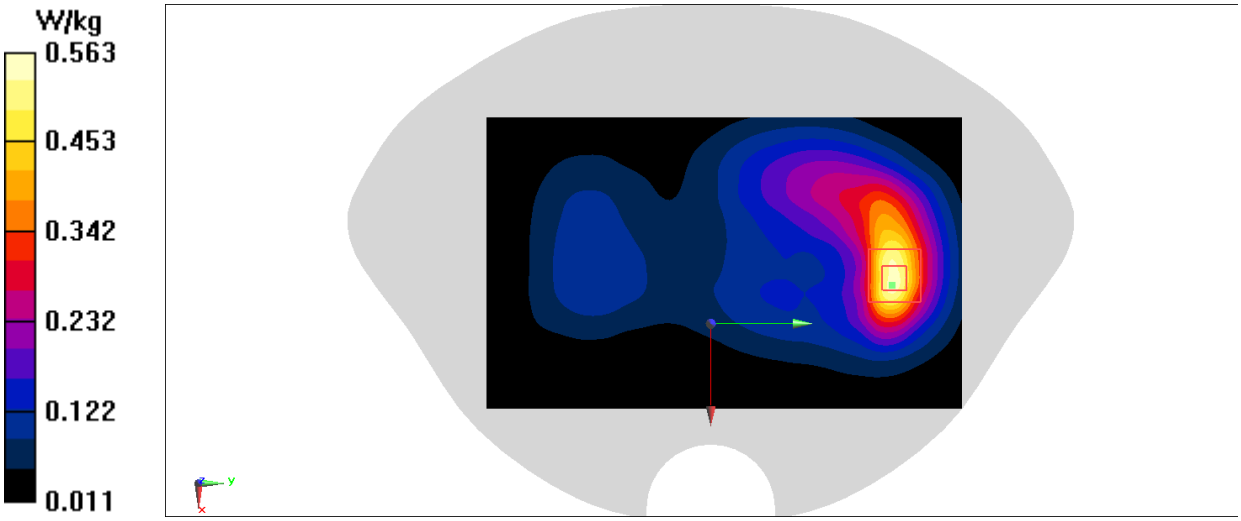



**Fig. A-29**

**LTE Band71 Head**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (extrapolated): f = 683 MHz; $\sigma$ = 0.831 S/m; $\varepsilon_r$ = 44.664; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, LTE Band71 (0) Frequency: 683 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 683 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.354 W/kg

**Zoom Scan (6x6x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 6.769 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.398 W/kg
**SAR(1 g) = 0.310 W/kg; SAR(10 g) = 0.248 W/kg**
Maximum value of SAR (measured) = 0.365 W/kg

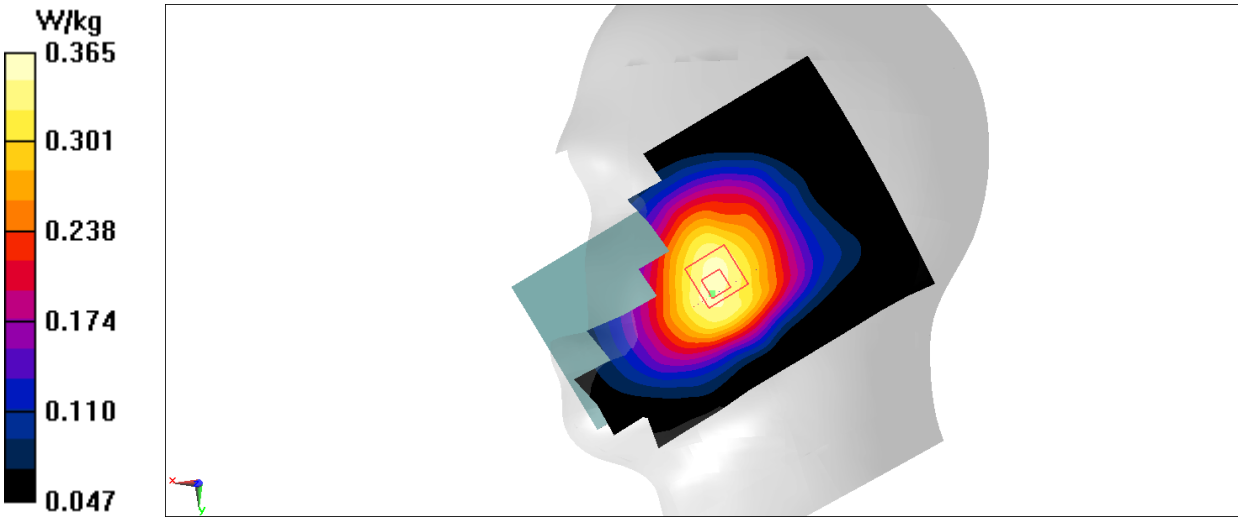



**Fig. A-30**

**LTE Band71 Body**
Date/Time: 5/21/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (extrapolated): f = 683 MHz; $\sigma$ = 0.831 S/m; $\varepsilon_r$ = 44.664; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.3ºC Liquid Temperature: 22.8ºC
Communication System: UID 0, LTE Band71 (0) Frequency: 683 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(10.43, 10.43, 10.43) @ 683 MHz

**Area Scan (81x131x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.474 W/kg

**Zoom Scan (6x9x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.90 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 0.549 W/kg
**SAR(1 g) = 0.380 W/kg; SAR(10 g) = 0.298 W/kg**
Maximum value of SAR (measured) = 0.467 W/kg

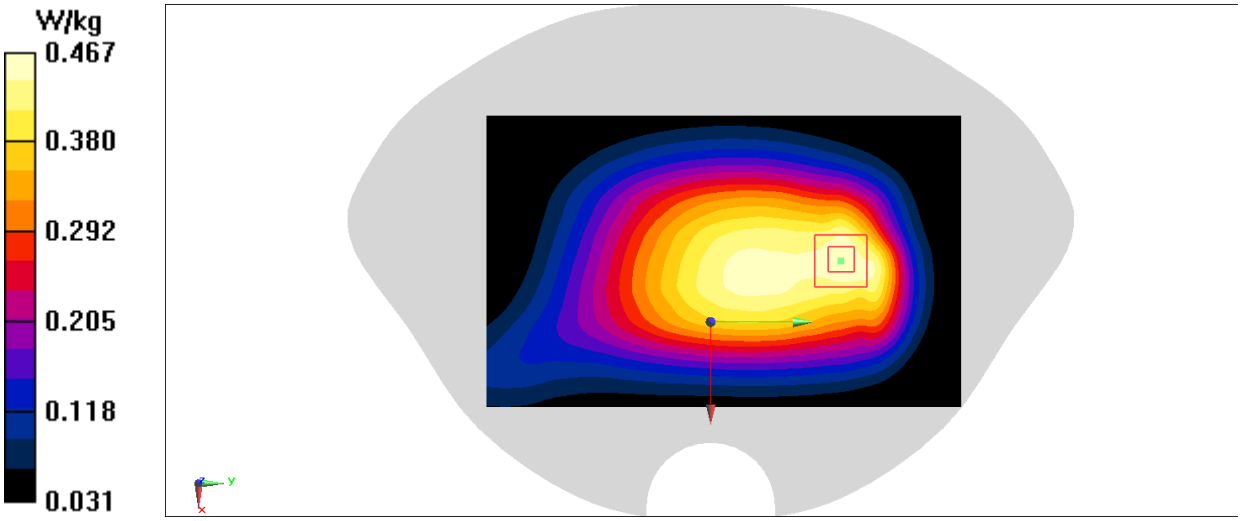



**Fig. A-31**

**WIFI2.4G Head**
Date/Time: 5/25/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2437 MHz; $\sigma$ = 1.911 S/m; $\varepsilon_r$ = 39.832; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.5ºC Liquid Temperature: 21.9ºC
Communication System: UID 0, WLan 2450 (0) Frequency: 2437 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(7.75, 7.75, 7.75) @ 2437 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 1.07 W/kg

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 11.28 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.30 W/kg
**SAR(1 g) = 0.670 W/kg; SAR(10 g) = 0.337 W/kg**
Maximum value of SAR (measured) = 1.02 W/kg

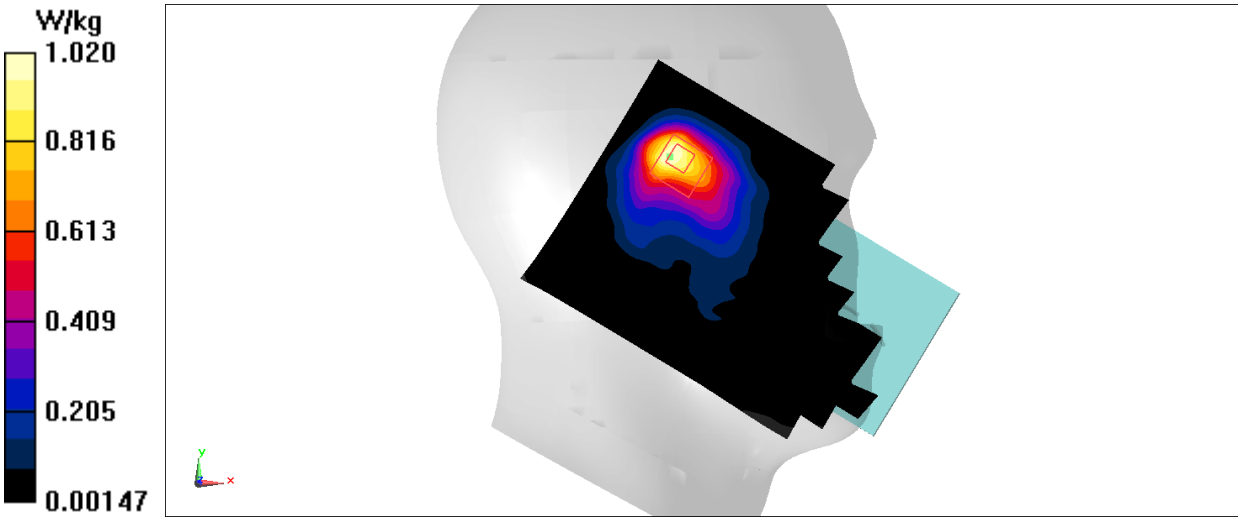



**Fig. A-32**

**WIFI2.4G Body**
Date/Time: 5/26/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2437 MHz; $\sigma$ = 1.911 S/m; $\varepsilon_r$ = 39.832; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23ºC Liquid Temperature: 22.5ºC
Communication System: UID 0, WLan 2450 (0) Frequency: 2437 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(7.75, 7.75, 7.75) @ 2437 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.784 W/kg

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 7.919 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.02 W/kg
**SAR(1 g) = 0.485 W/kg; SAR(10 g) = 0.243 W/kg**
Maximum value of SAR (measured) = 0.803 W/kg

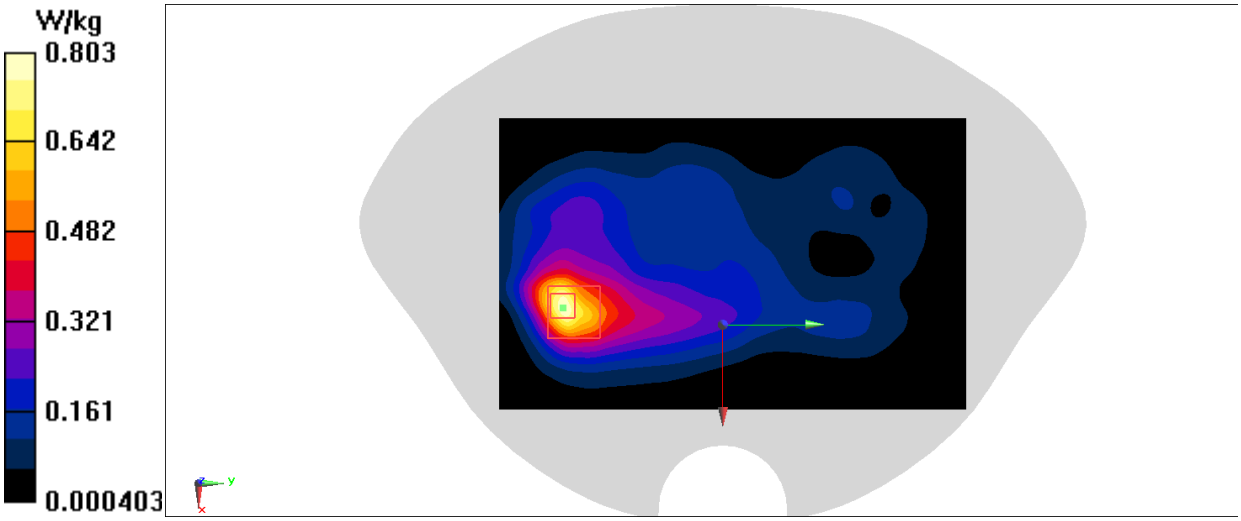



**Fig. A-33**

**WIFI2.4G Body**
Date/Time: 6/7/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2437 MHz; $\sigma$ = 1.898 S/m; $\varepsilon_r$ = 40.206; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.1ºC Liquid Temperature: 22.4ºC
Communication System: UID 0, WLan 2450 (0) Frequency: 2437 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(7.75, 7.75, 7.75) @ 2437 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.956 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 6.672 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.18 W/kg
**SAR(1 g) = 0.575 W/kg; SAR(10 g) = 0.286 W/kg**
Maximum value of SAR (measured) = 0.932 W/kg

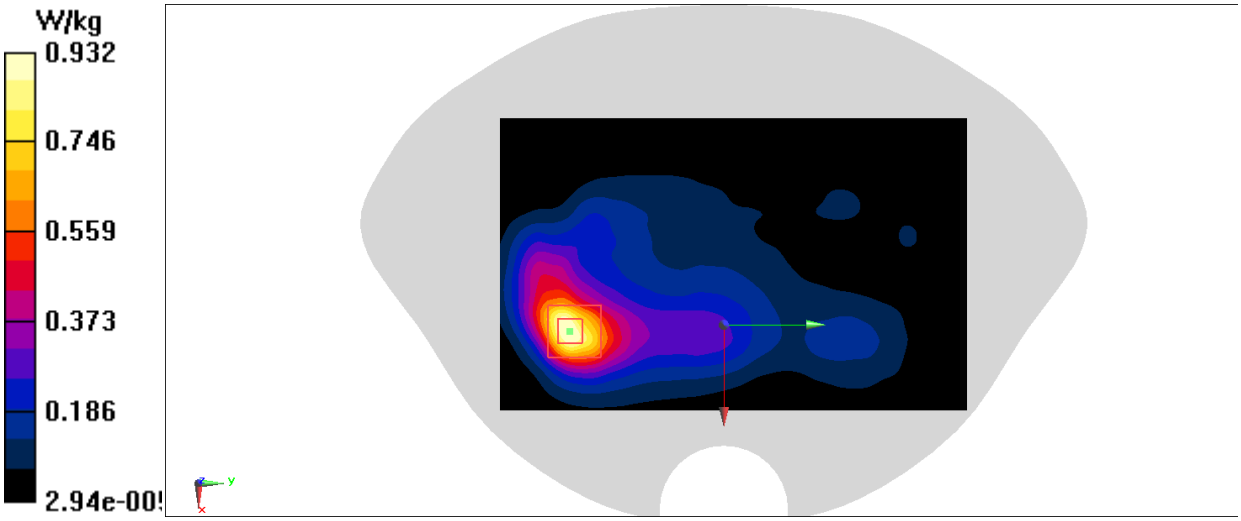



**Fig. A-34**

**WIFI2.4G Body**
Date/Time: 6/7/2021
Electronics: DAE4 Sn1588
Medium: H700-6000
Medium parameters used (interpolated): f = 2437 MHz; $\sigma$ = 1.898 S/m; $\varepsilon_r$ = 40.206; $\rho$ = 1000 kg/m$^3$
Ambient Temperature:23.1ºC Liquid Temperature: 22.4ºC
Communication System: UID 0, WLan 2450 (0) Frequency: 2437 MHz Duty Cycle: 1:1
Probe: EX3DV4 - SN7464 ConvF(7.75, 7.75, 7.75) @ 2437 MHz

**Area Scan (101x161x1):** Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.555 W/kg

**Zoom Scan (7x8x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 5.468 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 0.691 W/kg
**SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.164 W/kg**
Maximum value of SAR (measured) = 0.538 W/kg

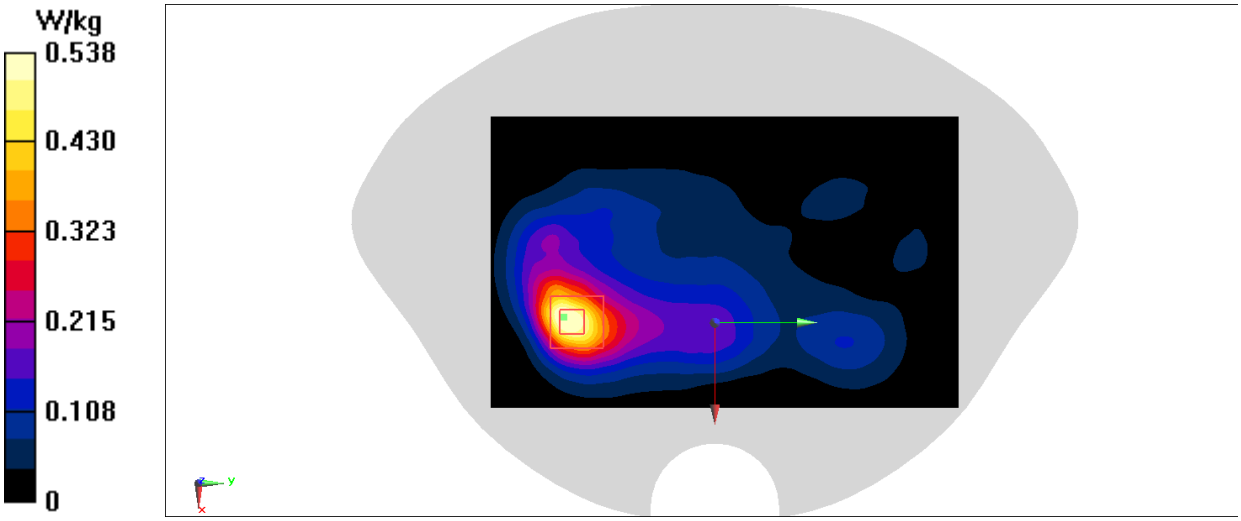



**Fig. A-35**

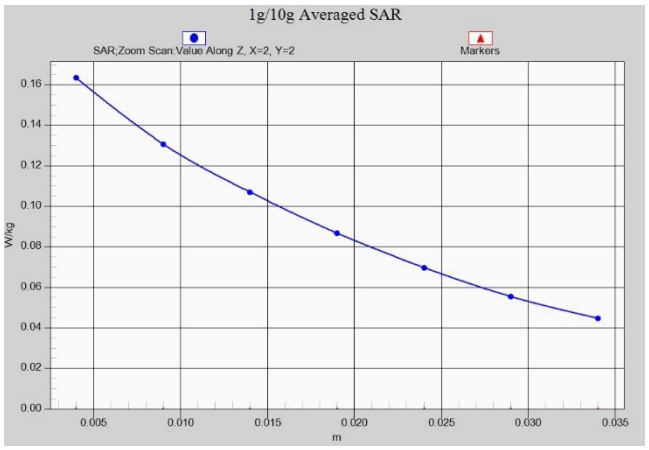



**Fig. A-1 Z-Scan at power reference point (GSM850)**

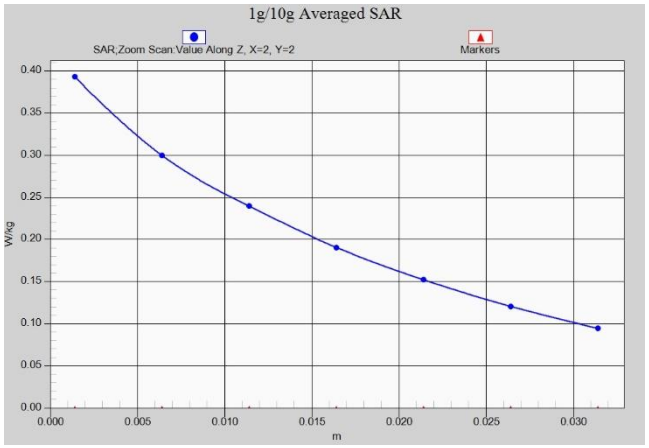



**Fig. A-2 Z-Scan at power reference point (GSM850)**

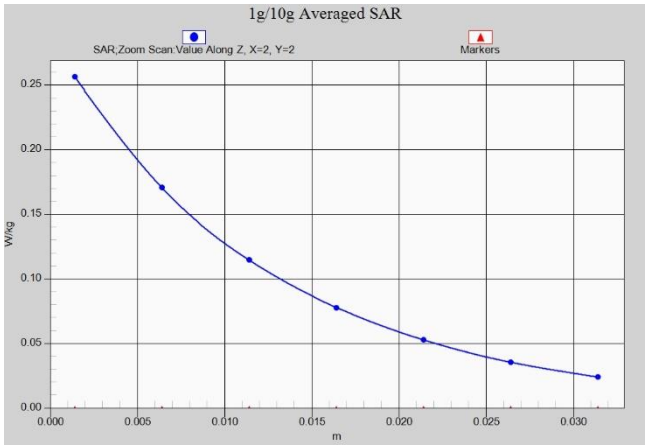



**Fig. A-3 Z-Scan at power reference point (GSM1900)**

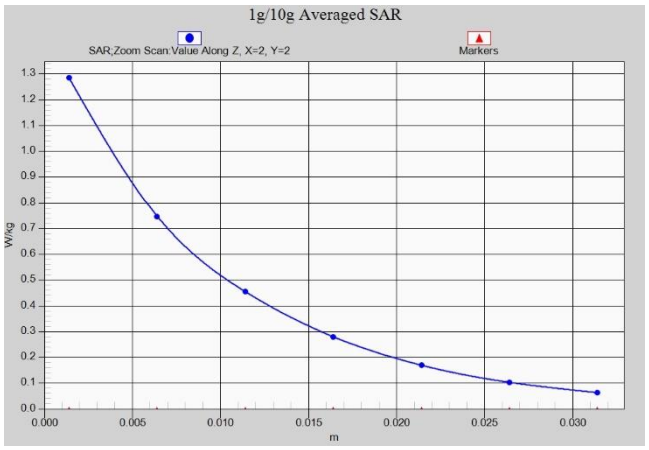



**Fig. A-4 Z-Scan at power reference point (GSM1900)**

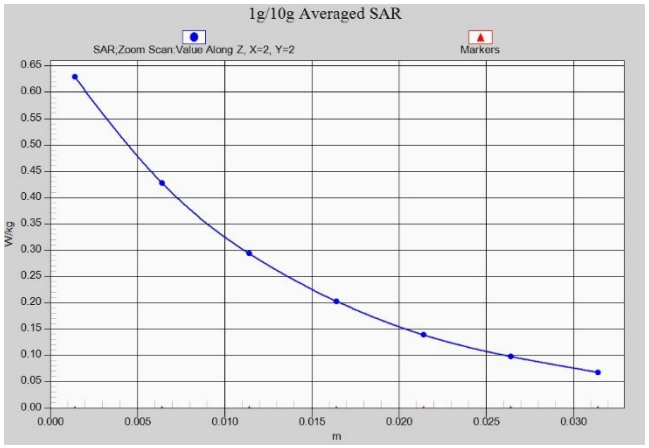



**Fig. A-5 Z-Scan at power reference point (WCDMA1900)**

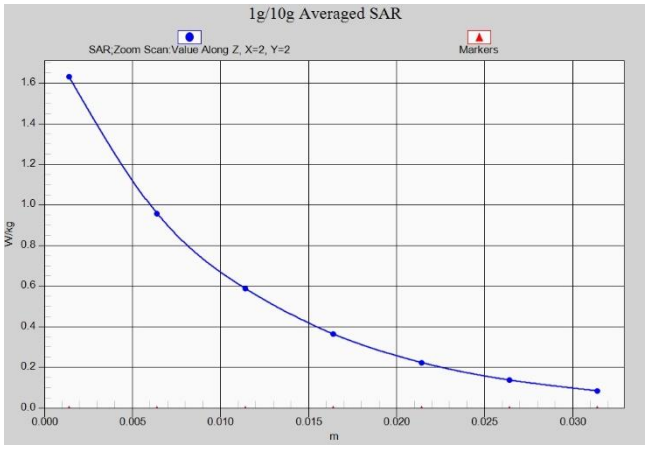



**Fig. A-6 Z-Scan at power reference point (WCDMA1900)**

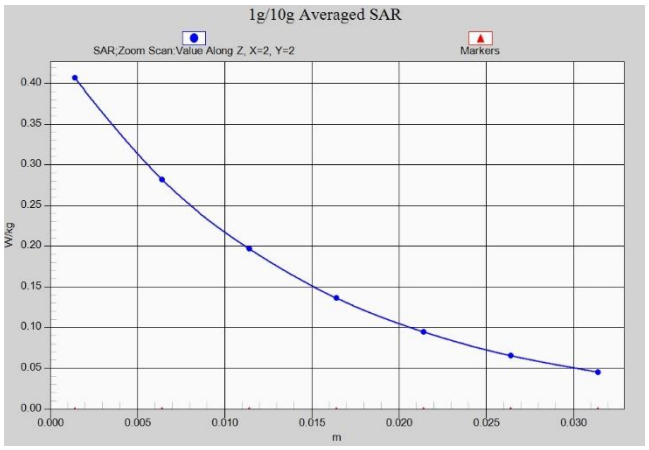



**Fig. A-7 Z-Scan at power reference point (WCDMA1700)**

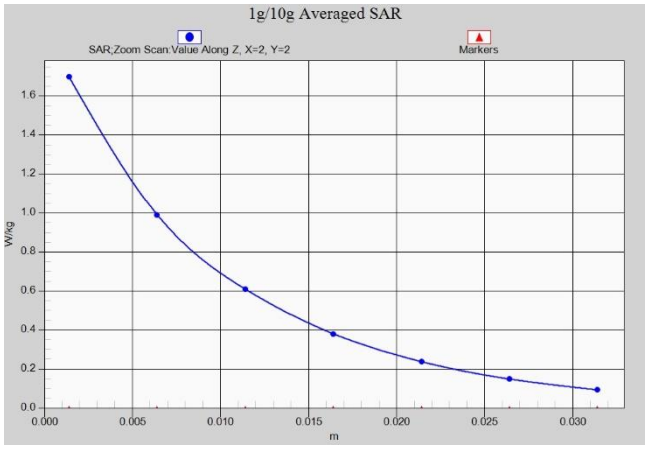



**Fig. A-8 Z-Scan at power reference point (WCDMA1700)**

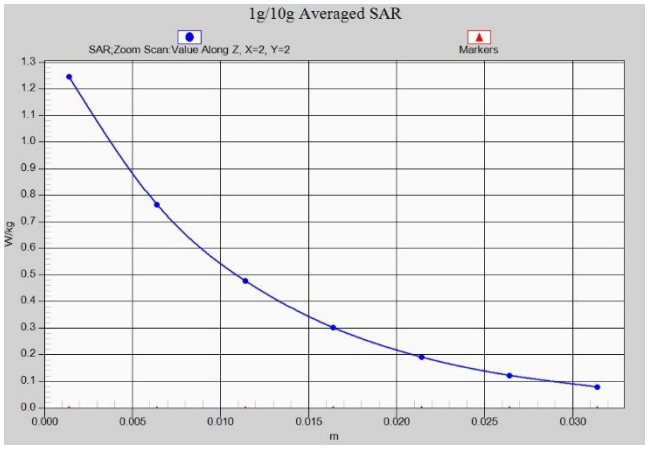



**Fig. A-9 Z-Scan at power reference point (WCDMA1700)**

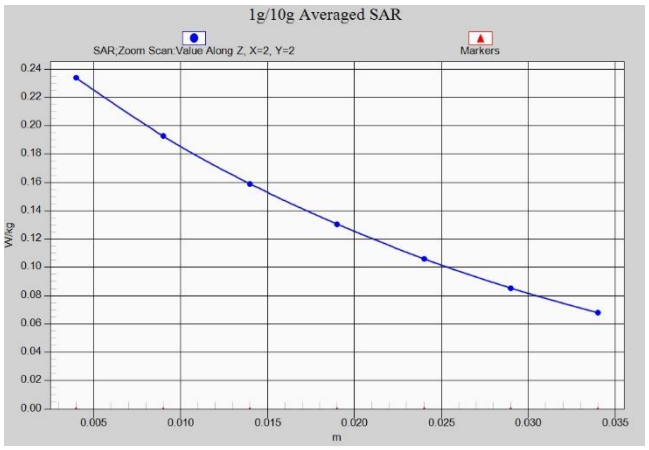



**Fig. A-10 Z-Scan at power reference point (WCDMA850)**

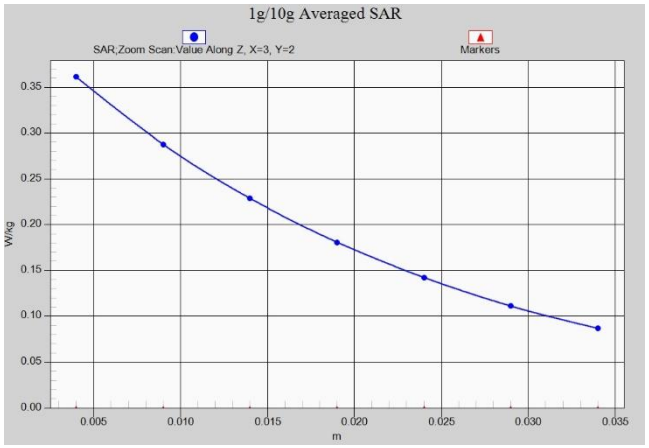



**Fig. A-11 Z-Scan at power reference point (WCDMA850)**

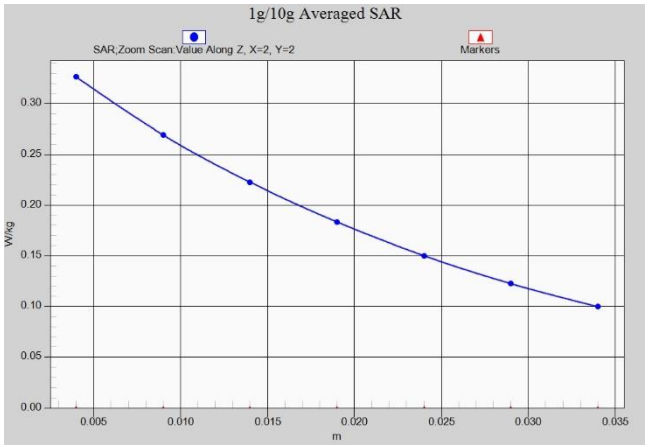



**Fig. A-12 Z-Scan at power reference point (LTE Band12)**

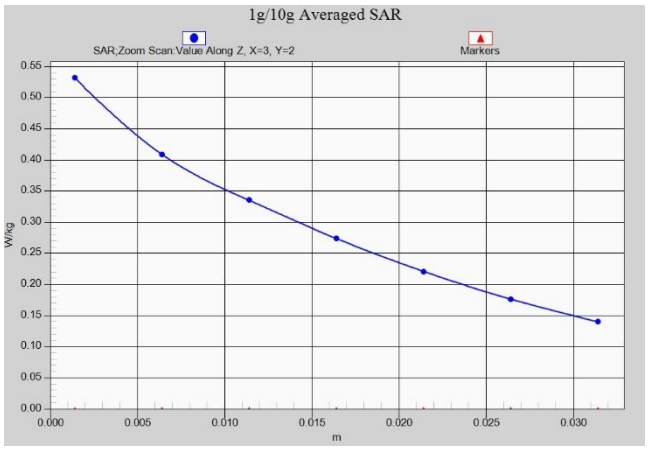



**Fig. A-13 Z-Scan at power reference point (LTE Band 12)**

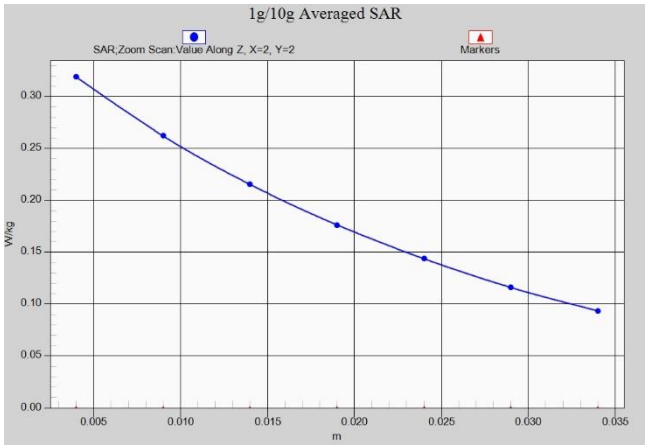



**Fig. A-14 Z-Scan at power reference point (LTE Band 13)**

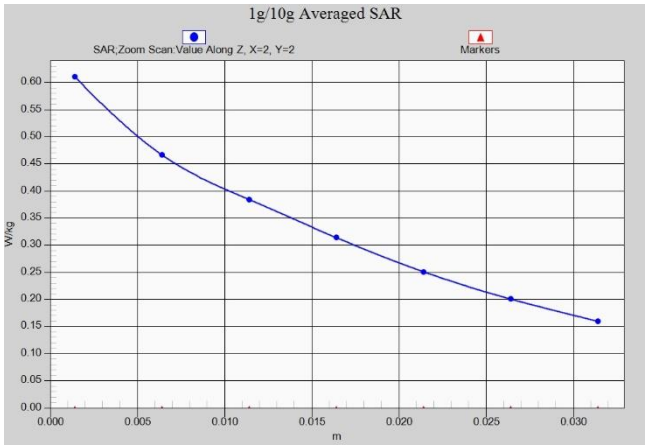



**Fig. A-15 Z-Scan at power reference point (LTE Band13)**

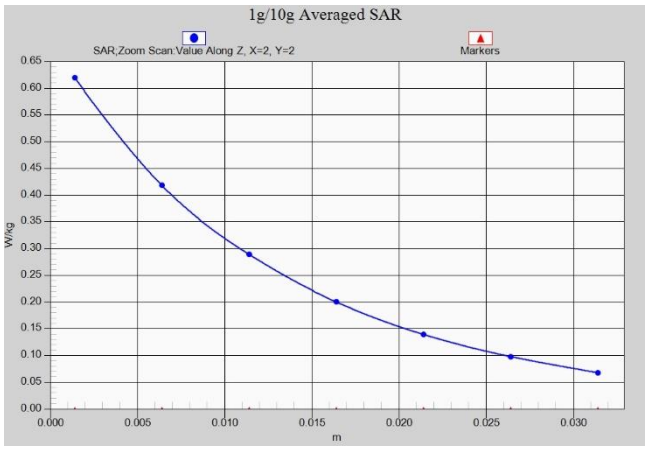



**Fig. A-16 Z-Scan at power reference point (LTE Band25)**

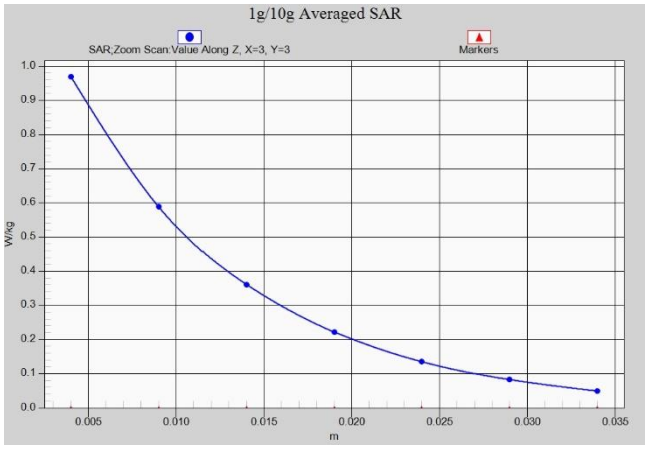



**Fig. A-17 Z-Scan at power reference point (LTE Band25)**

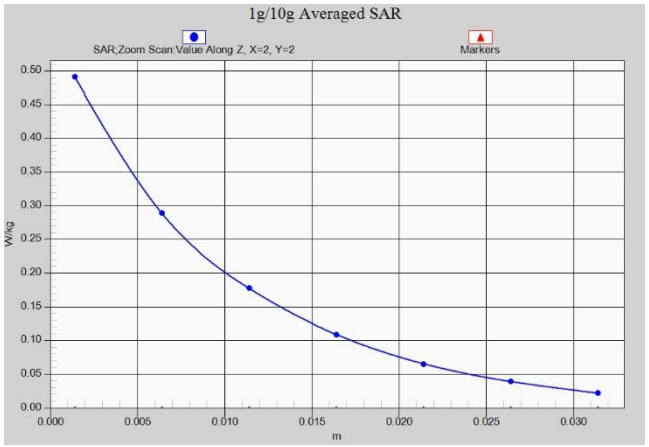



**Fig. A-18 Z-Scan at power reference point (LTE Band25)**

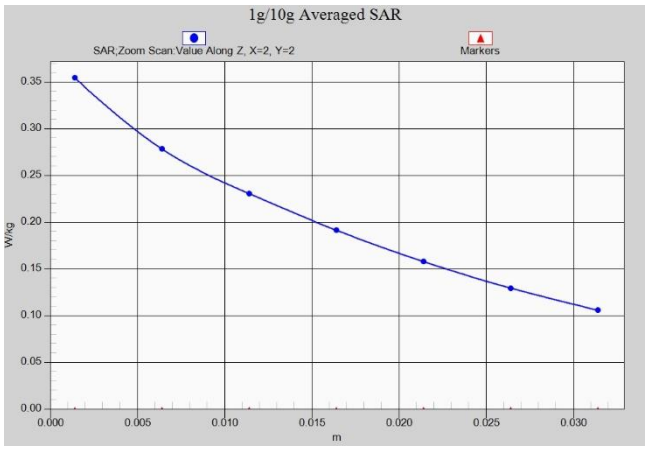



**Fig. A-19 Z-Scan at power reference point (LTE Band26)**

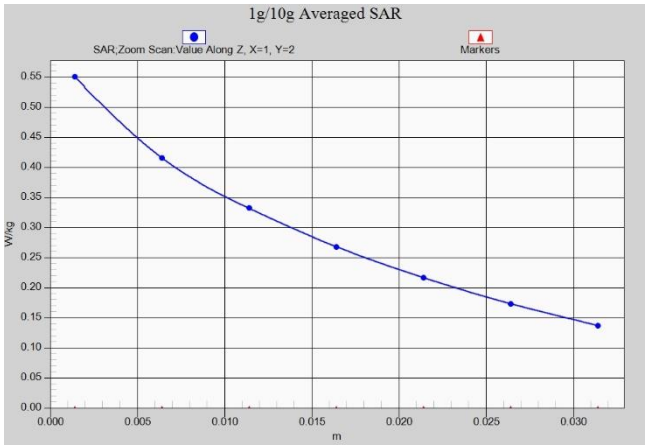



**Fig. A-20 Z-Scan at power reference point (LTE Band26)**

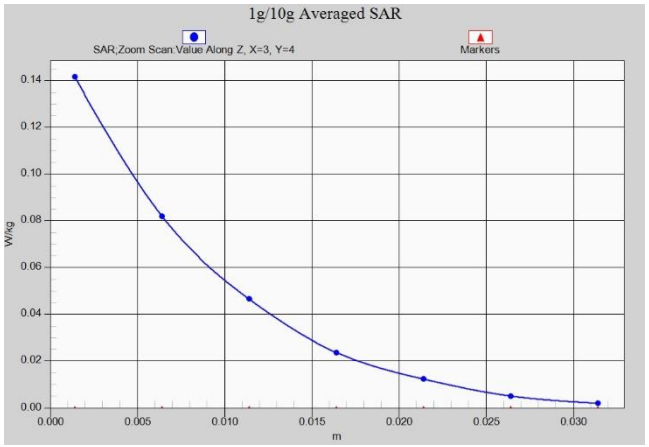



**Fig. A-21 Z-Scan at power reference point (LTE Band41)**

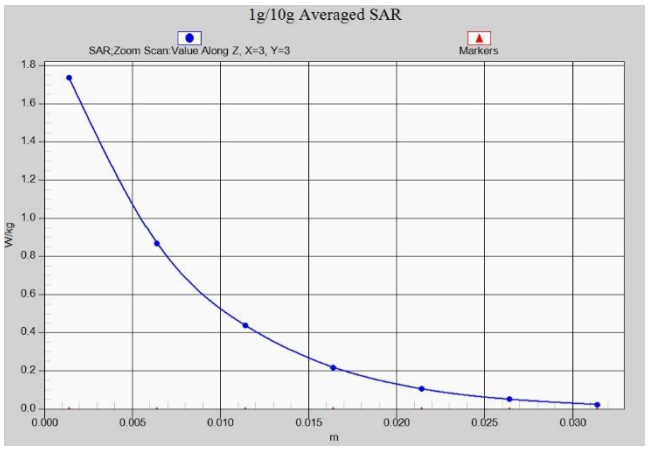



**Fig. A-22 Z-Scan at power reference point (LTE Band41)**

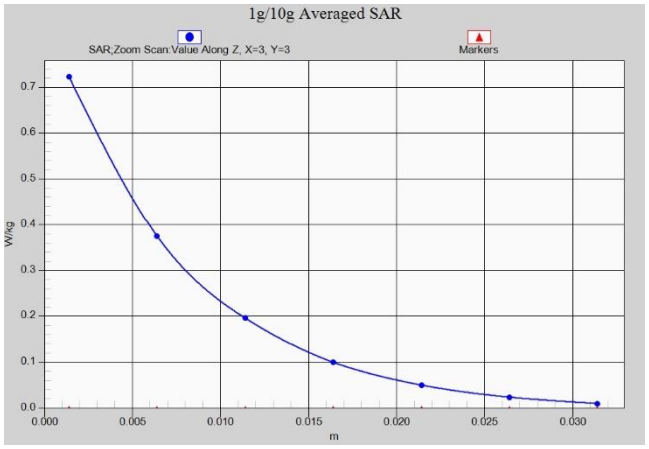



**Fig. A-23 Z-Scan at power reference point (LTE Band41)**

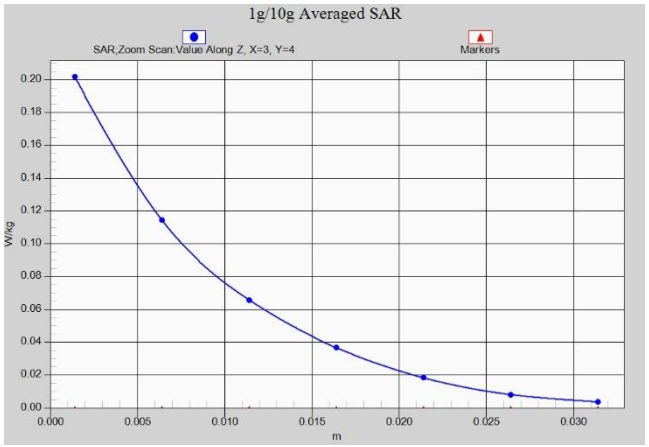



**Fig. A-24 Z-Scan at power reference point (LTE Band41 HPUE)**

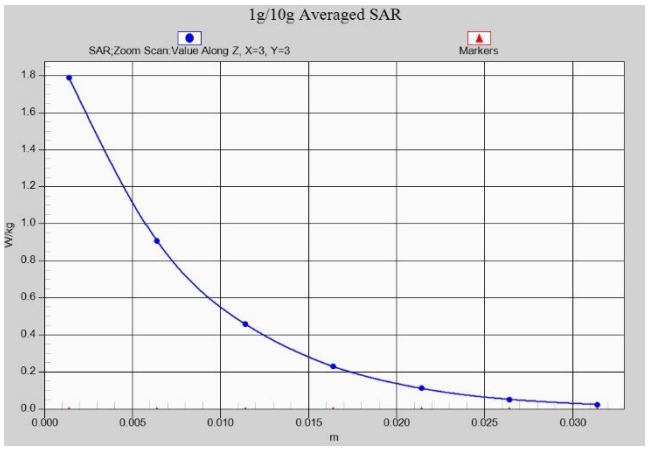



**Fig. A-25 Z-Scan at power reference point (LTE Band41 HPUE)**

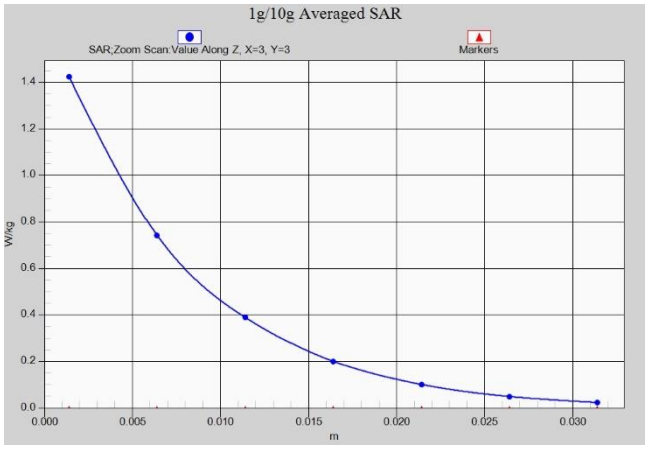



**Fig. A-26 Z-Scan at power reference point (LTE Band41 HPUE)**

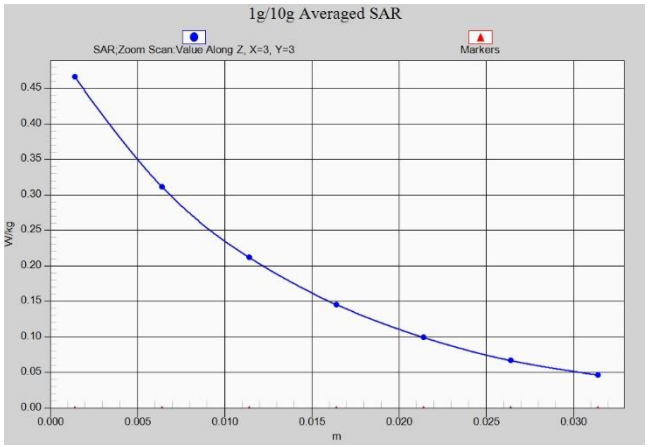



**Fig. A-27 Z-Scan at power reference point (LTE Band66)**