Portable Cellular Phone SAR Test Report

Tests Requested By:	Motorola Mobility, LLC 600 N. US Highway 45 Libertyville, IL 60048
Test Report #:	25377-1F Supplemental
Date of Report:	May 10, 2013
Date of Test:	March 31, 2013 – Apr 25, 2013
FCC ID #:	IHDT56PB2
IC ID #:	N/A
Generic Name:	M0DD8
Test Laboratory:	Motorola Mobility, LLC - ADR Test Services Laboratory 600 N. US Highway 45 Libertyville, IL 60048
Report Author:	Katerina Bruggemann Engineer

Accreditation:

This laboratory is accredited to ISO/IEC 17025-2005 to perform the following tests:

Tests:	Procedures:
Electromagnetic Specific Absorption Rate	IEC 62209-1 RSS-102 IEEE 1528 - 2003 FCC OET Bulletin 65 (*including Supplement C*) Australian Communications Authority Radio Communications (Electromagnetic Radiation – Human Exposure) Standard 2003 CENELEC EN 50360 ARIB Std. T-56 (2002)

2404

On the following products or types of products:
Wireless Communications Devices (Examples): Two Way Radios; Portable Phones (including Cellular, Licensed Non-Broadcast and PCS); Low Frequency Readers; and Pagers

Statement of Compliance:

Motorola declares under its sole responsibility that the portable cellular telephone model to which this declaration relates, is in conformity with the appropriate General Population/Uncontrolled RF exposure standards, recommendations and guidelines (FCC 47 CFR §2.1093) as well as with CENELEC en50360:2001 and ANSI / IEEE C95.1. It also declares that the product was tested in accordance with IEEE 1528 / CENELEC EN62209-1 (2006), along with other published guidance indicated in the references at the end of this report, as well as other appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(none)

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Revision History

Revision Version	Date	Notes
Rev. 0	May 10, 2013	Initial report release

1 Introduction

The Motorola Mobility ADR Test Services Laboratory has performed measurements of the maximum potential exposure to the user of the portable cellular phone covered by this test report. The Specific Absorption Rate (SAR) of this product was measured. The portable cellular phone was tested in accordance with [1], [4], [5], [9], and per FCC KDB 941225 D06 for mobile hotspot operation. The SAR values measured for the portable cellular phone are below the maximum recommended levels of 1.6 W/kg in a 1 g average set in [3] and 2.0 W/kg in a 10 g average set in [2].

Per direction of the FCC, the following SAR test data is being provided to demonstrate the device's effective utilization of power reduction conditions specified in Exhibit 12 - Operational Description. The values in the tables in Section 6.0 are provided solely for the purpose of confirming compliant power reduction operation and do not represent maximum SAR values of the product. For maximum reported SAR compliance values, refer to the Exhibit 11 SAR test report.

2 Details of the Device Under Test

2.1 Sample Information

Serial Number(s) (Functional Use)	LXSZ1V0005 LXVE110019 LXSZ1V0022	(CDMA conducted power measurements, CDMA head/body/mobile hotspot SAR testing, (Wi-Fi 2.4 GHz and 5 GHz head/body/mobile hotspot SAR testing) (LTE conducted power measurements, LTE head/body/mobile hotspot SAR testing)
Production Unit or Identical Prototype (47 CFR §2.908)	Identical Prototype	
Device Category	Portable (Mobile Station Class B)	
RF Exposure Limits	General Population / Uncontrolled	

For a complete description of the device under test, see the Exhibit 11 SAR test report 25377-1F and the Exhibit 12 Operational Description for this device.

2.2 Transmitter power reduction conditions and modes

The phone utilizes reduced limits for the maximum transmit power for its transmitters when operating under the following noted conditions to ensure SAR exposure compliance is maintained. Tables of the reduced limits used for testing are given below. A complete description of this functionality is provided in the Operational Description contained within Exhibit 12. The implementation to trigger the reduction in power requires the device to be radiating, which prevents conducted power measurements of this functionality without modification to the unit.

For the Wi-Fi transmitter, reduced power limits are enforced when the Wi-Fi transmitter is operating simultaneously with any other transmitter(s). A table of the reduced limits used for testing is given below.

Mode(s) of Operation	Wi-Fi 2.4 GHz	Wi-Fi 5.2 GHz	Wi-Fi 5.8 GHz
Channel Ranges	1-11	36-48	149-165
Maximum Output Power (dBm)	19.18	15.60	20.13
Reduced Maximum Output Power Target (dBm)	10.0	11.0	11.0

The DUT supports Simultaneous Voice and LTE (SVLTE), allowing a 1x CDMA voice call while simultaneously providing an LTE link for data transport on the cellular network. While operating in SVLTE, *if the power on the 1x CDMA transmitter for voice is operating above 18 dBm*, a reduced maximum LTE transmit power limit is enforced to ensure SAR exposure compliance is maintained. When the power of the 1x CDMA transmitter is operating at or below 18 dBm or this combination of transmitters is not in use, the LTE transmitter operates up to its maximum power limit. Note that both conditions (1x CDMA above 18 dBm and LTE at reduced power, or 1x CDMA at or below 18 dBm with LTE at full power) are demonstrated for SAR compliance in section 6. A table of the reduced limits used for testing is given below.

The LTE transmitter may also operate as the data transport to the network during a mobile hotspot session. For operation in this state, the noted reduced power limit is strictly enforced regardless of other transmit conditions.

Mode(s) of Operation	LTE Band 25					
Test Channel	Applicable to all channels/channel bandwidths					
Modulation	QPSK			16QAM		
RB Allocation	1 RB	50%	100%	1 RB	50%	100%
Maximum Output Power Setting (dBm)	24.0	24.0	24.0	24.0	24.0	24.0
Output Power with MPR (dBm)	24.0	23.0	23.0	23.0	22.0	22.0
Reduced Maximum Output Power Setting (dBm)	18.0	18.0	18.0	18.0	18.0	18.0

While operating in a mobile hotspot session, either as data transport to the network or voice transport for SVLTE during a mobile hotspot session, a reduced maximum power limit is enforced on the CDMA 1900 transmitter to ensure SAR exposure compliance is maintained. A table of the reduced limits used for testing is given below.

Mode(s) of Operation	CDMA 1900
Channel Ranges	25-1175
Maximum Output Power Setting (dBm)	25.0
Reduced Maximum Output Power Setting (dBm)	18.0

While operating in a mobile hotspot session, either as data transport to the network or voice transport for SVLTE during a mobile hotspot session, a reduced maximum power limit is enforced on the CDMA 800 transmitter to ensure SAR exposure compliance is maintained. This reduced limit only takes affect when the earpiece speaker is off. A table of the reduced limits used for testing is given below.

Mode(s) of Operation	CDMA 800
Channel Ranges	1013-777
Maximum Output Power Setting (dBm)	25.0
Reduced Maximum Output Power Setting (dBm)	24.0

3 Test Equipment Used

3.1 Dosimetric Measurement System

The Motorola Mobility ADR Test Services Laboratory utilizes a DASY52™ Dosimetric Assessment System manufactured by Schmid & Partner Engineering AG (SPEAG™), of Zurich Switzerland. All SAR measurements are taken within a shielded enclosure. The overall 10 g RSS uncertainty of the measurement system is ±11% (K=1) with an expanded uncertainty of ±22% (K=2). The overall 1 g RSS uncertainty of the measurement system is ±11% (K=1) with an expanded uncertainty of ±22% (K=2). Per IEEE 1528, this uncertainty budget is applicable to the SAR range of 0.4 W/kg to 10 W/kg.

For a complete tabulation of equipment used, system validation measurements, system verification measurements, and simulated tissue dielectric properties, see the Exhibit 11 SAR test report 25377-1F.

4 Test Setup Information, SAR Measurement Results, and Analysis

4.1 Overview of Test Setup and Results

Per direction of the FCC, the following SAR test data is being provided to demonstrate the device's effective utilization of power reduction conditions specified in Exhibit 12 - Operational Description. The values in the table(s) are provided solely for purposes of confirming compliant power reduction operation and do not represent maximum SAR values of the product. For maximum reported SAR compliance values, refer to the Exhibit 11 SAR test report 25377-1F.

Note this report does not include conditions and test results where both the maximum and reduced power SAR values are demonstrated in the Exhibit 11 SAR test report.

The test conditions that produced the highest SAR values for each combination of DUT mode and exposure condition are indicated as **bold** numbers in the following tables. Plots of these tests are included in Appendix 1 of this report.

Mobile hotspot session in body-adjacent configurations									
Band	**Configuration**	**Channel**	***1 g SAR value without Power Reduction***			***1 g SAR value with Power Reduction***			**Measured SAR Reduction (dB)**
			Maximum Power Limit (dBm)	**Measured (W/kg)**	**Corrected (W/kg)**	**Reduced Power Limit (dBm)**	**Measured (W/kg)**	**Corrected (W/kg)**	
CDMA 800	Right Edge of Phone 10 mm from Phantom	384	25.0	0.951	0.95	24.0	0.870	0.87	0.4
CDMA 1900	Back of Phone 10 mm from Phantom	600	25.0	1.07	1.07	18.0	0.394	0.39	4.4
LTE Band 25	Front of Phone 10 mm from Phantom	26140	24.0	0.999	1.00	18.0	0.165	0.17	7.7
WIFI 2450	Left Edge of Phone 10 mm from Phantom	6	19.18	0.492	0.50	10.0	0.0731	0.07	8.5
WIFI 5800	Left Edge of Phone 10 mm from Phantom	157	20.13	0.263	0.26	11.0	0.0452	0.05	7.2

5 References to Test Standards and Guidance

[1] CENELEC, EN 62209-1:2006 “Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)”

[2] CENELEC, EN 50360:2001 “Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz – 3 GHz)”.

[3] ANSI / IEEE, C95.1 1992 Edition “IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz”

[4] FCC OET Bulletin 65 Supplement C 01-01

[5] IEEE 1528 2003 Edition “IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques”

[6] ICNIRP Guidelines “Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz)”

[7] IC RSS-102 “Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

[8] IC Notice 2012-DRS1203 “RE: Applicability of Latest FCC RF Exposure KDB Procedures (Publication Date: October 24, 2012) and Other Procedures”

[9] CENELEC, EN 62209-2:2010 “Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)”

[10] FCC KDB Publication 248227 D01 v01r02 “SAR Measurement Procedures for 802.11 a/b/g Transmitters”

[11] FCC KDB Publication 447498 D01 v05 “Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies”

[12] FCC KDB Publication 648474 D04 v01 “SAR Evaluation Considerations for Wireless Handsets”

[13] FCC KDB Publication 865664 D01 v01 “SAR Measurement Requirements for 100 MHz to 6 GHz”

[14] FCC KDB Publication 865664 D02 v01 “RF Exposure Compliance Reporting and Documentation Considerations”

[15] FCC KDB Publication 941225 D01 v02 “SAR Measurement Procedures for 3G Devices”

[16] FCC KDB Publication 941225 D03 v01 “Recommended SAR Test Reduction Procedures for GMS/GPRS/EDGE”

[17] FCC KDB Publication 941225 D05 v02r01 “SAR Evaluation Considerations for LTE Devices”

[18] FCC KDB Publication 941225 D06 v01 “SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities”

Appendix 1

SAR Distribution Plots

Date/Time: 4/25/2013 10:36:43 PM

DUT Serial: LXSZ1V0022

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(4.83,4.83,4.83); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

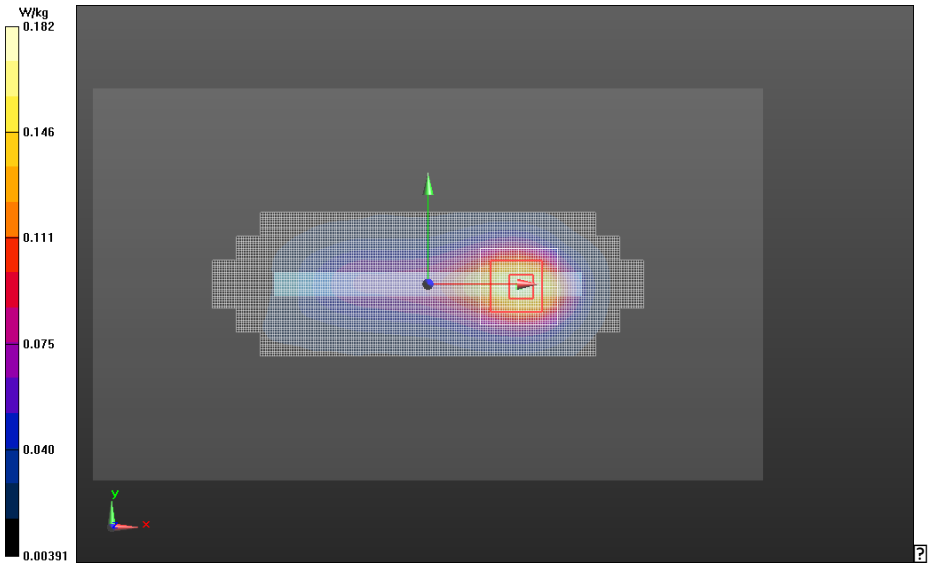
Communication System: _LTE Band 25; Communication System Band: Band 25: 20 MHz BW; Frequency: 1883 MHz, Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=1882.5 MHz; σ = 1.556; ε_r = 48.34 mho/m; ρ = 1000 kg/m^3

0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Fast SAR: SAR(1g) = 0.169 W/kg; SAR(10g) = 0.0953 W/kg

0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0: Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm

Reference Value = 10.753 V/m, Power Drift = -0.195 dB
Averaged SAR: SAR(1g) = 0.165 W/kg; SAR(10g) = 0.0914 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 4/25/2013 7:27:31 PM

DUT Serial: LXSZ1V0005

DASY Configuration:

- Probe: ES3DV3 - SN3037; ConvF(6.16,6.16,6.16); Calibrated: 9/13/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn703; Calibrated: 9/11/2012
- Phantom: R#4 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

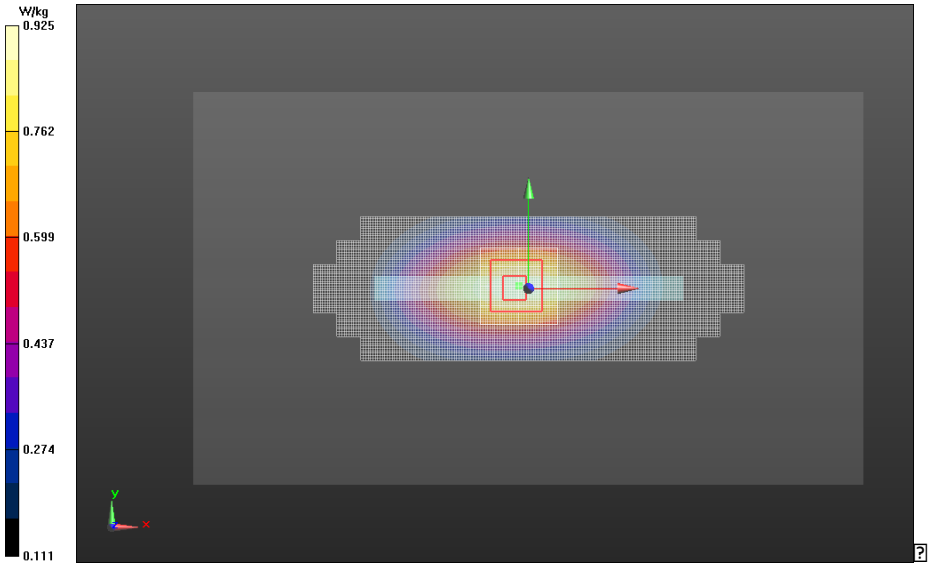
Communication System: _CDMA; Communication System Band: CDMA 800; Frequency: 836.5 MHz,
Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=836.52 MHz; σ = 1.018; ε_r = 54.45 mho/m; ρ = 1000 kg/m^3

0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Fast SAR: SAR(1g) = 0.871 W/kg; SAR(10g) = 0.589 W/kg

0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0: Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm

Reference Value = 30.251 V/m, Power Drift = 0.016 dB
Averaged SAR: SAR(1g) = 0.870 W/kg; SAR(10g) = 0.604 W/kg



Date/Time: 4/16/2013 1:47:04 PM

DUT Serial: LXSZ1V0005

DASY Configuration:

- Probe: ES3DV3 - SN3124; ConvF(4.76,4.76,4.76); Calibrated: 8/20/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn376; Calibrated: 9/3/2012
- Phantom: R#2 Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

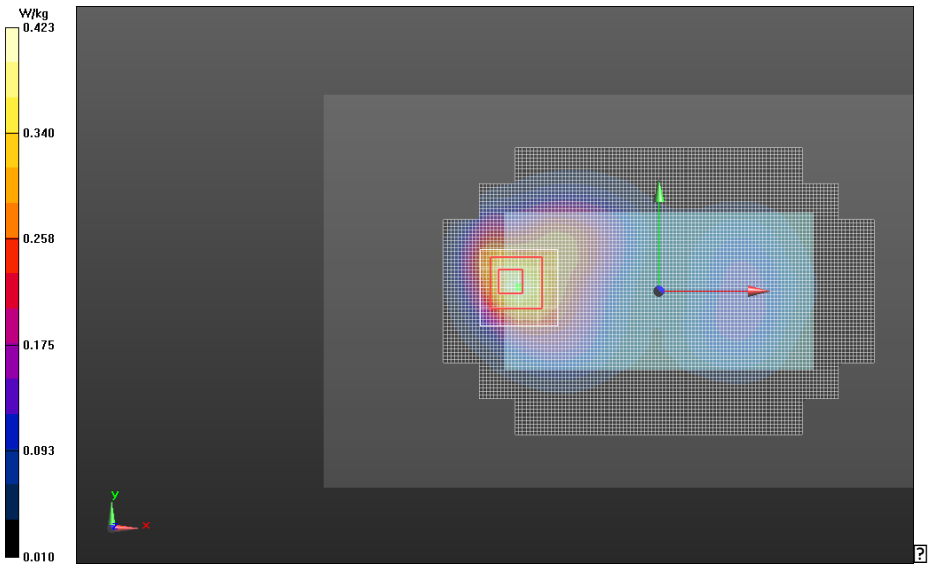
Communication System: _CDMA; Communication System Band: CDMA 1900; Frequency: 1880 MHz,
Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=1880 MHz; σ = 1.553; ε_r = 49.00 mho/m; ρ = 1000 kg/m^3

0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 0.381 W/kg; SAR(10g) = 0.218 W/kg

0.6-2GHz Triple Flat Phone Template/5x5x7 Zoom Scan (0.6-2GHz) (21x21x36)/Cube 0: Interpolated grid: dx=1.600 mm, dy=1.600 mm, dz=1.000 mm

Reference Value = 14.257 V/m, Power Drift = 0.023 dB
Averaged SAR: SAR(1g) = 0.394 W/kg; SAR(10g) = 0.221 W/kg



0.6-2GHz Triple Flat Phone Template

Date/Time: 4/21/2013 1:02:30 PM

DUT Serial: LXVE110019

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(6.86,6.86,6.86); Calibrated: 8/24/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

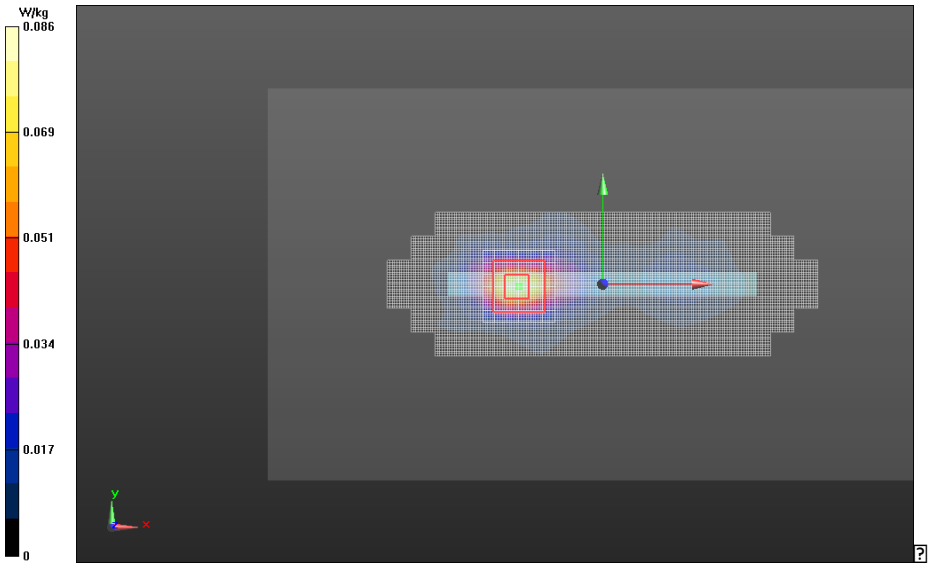
Communication System: _Wi-Fi 2450MHz; Communication System Band: 2450MHz WIFI; Frequency: 2437 MHz, Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=2437 MHz; σ = 1.972; ε_r = 49.44 mho/m; ρ = 1000 kg/m^3

2-3GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Fast SAR: SAR(1g) = 0.0710 W/kg; SAR(10g) = 0.0317 W/kg

2-3GHz Triple Flat Phone Template/7x7x7 Zoom Scan (2-3GHz) (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 5.747 V/m, Power Drift = -0.00211 dB
Averaged SAR: SAR(1g) = 0.0731 W/kg; SAR(10g) = 0.0330 W/kg



2-3GHz Triple Flat Phone Template

DUT Serial: LXVE110019 Date/Time: 4/10/2013 1:56:52 PM

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(3.81,3.81,3.81); Calibrated: 8/24/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

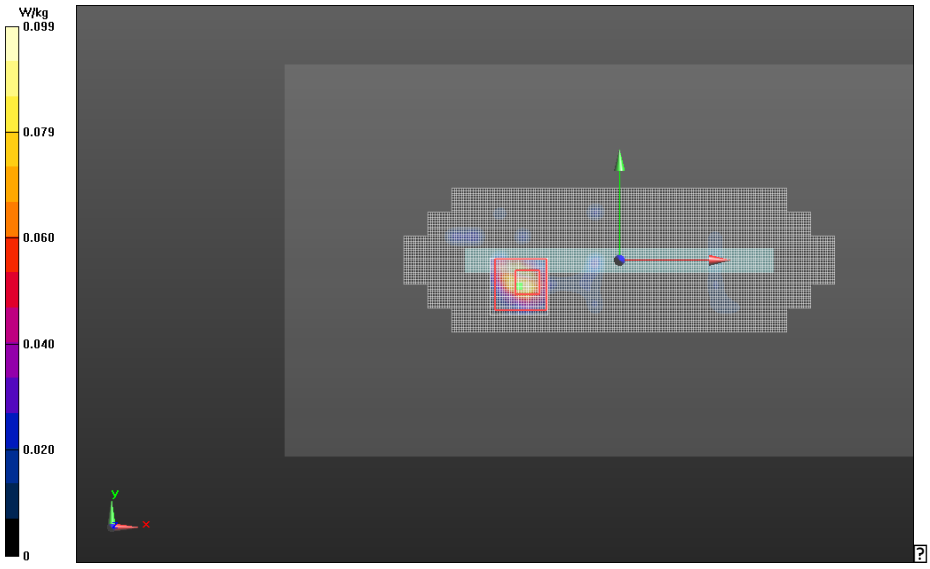
Communication System: _WIFI 5-6GHz; Communication System Band: 5785 MHz Sub-Band; Frequency: 5785 MHz, Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=5785 MHz; σ = 5.970; ε_r = 44.14 mho/m; ρ = 1000 kg/m^3

TRIPLE Flat Phone Against Flat Section/Area Scan - Body (10mm) (281x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Fast SAR: SAR(1g) = 0.0360 W/kg; SAR(10g) = 0.00744 W/kg

TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (31x31x31)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 3.270 V/m, Power Drift = -0.081 dB
Averaged SAR: SAR(1g) = 0.0452 W/kg; SAR(10g) = 0.00963 W/kg



TRIPLE Flat Phone Against Flat Section

Power Not Reduced - Mobile Hotspot

Date/Time: 4/5/2013 6:35:59 PM

DUT Serial: LXSZ1V0005

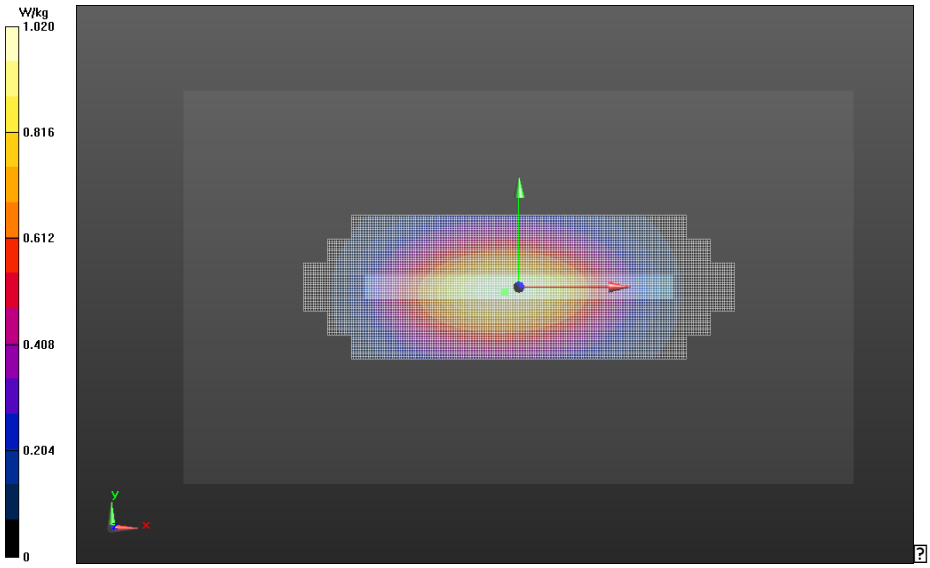
DASY Configuration:

- Probe: ES3DV3 - SN3184; ConvF(6.19,6.19,6.19); Calibrated: 4/25/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn378; Calibrated: 4/11/2012
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

Communication System: _CDMA; Communication System Band: CDMA 800; Frequency: 836.5 MHz,
Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=836.52 MHz; σ = 1.001; ε_r = 53.60 mho/m; ρ = 1000 kg/m^3

0.6-2GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Fast SAR: SAR(1g) = 0.951 W/kg; SAR(10g) = 0.642 W/kg



0.6-2GHz Triple Flat Phone Template

Power Not Reduced - Mobile Hotspot

Date/Time: 4/5/2013 10:18:18 PM

DUT Serial: LXSZ1V0005

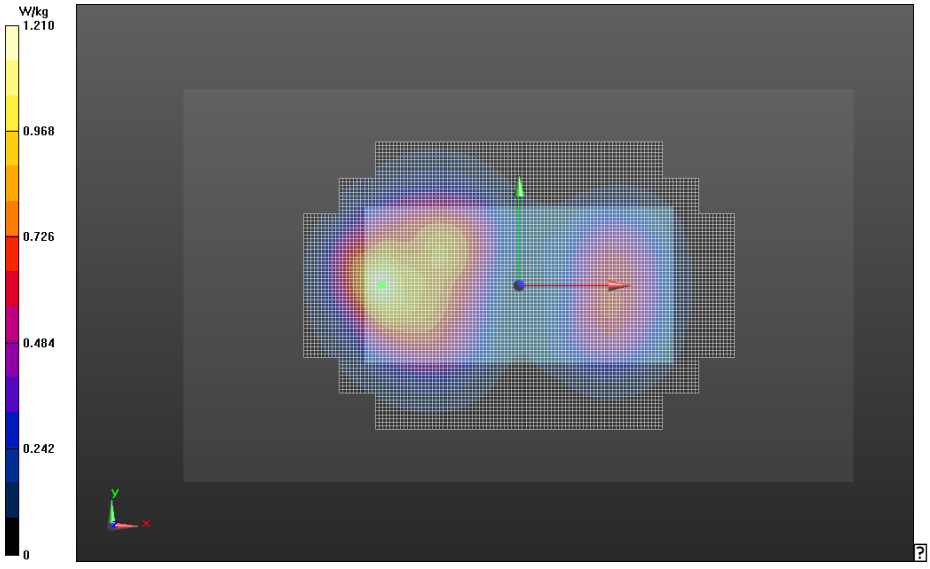
DASY Configuration:

- Probe: ES3DV3 - SN3184; ConvF(4.88,4.88,4.88); Calibrated: 4/25/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn378; Calibrated: 4/11/2012
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

Communication System: _CDMA; Communication System Band: CDMA 1900; Frequency: 1880 MHz,
Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=1880 MHz; σ = 1.549; ε_r = 48.68 mho/m; ρ = 1000 kg/m^3

0.6-2GHz Triple Flat Phone Template/Area Scan (15mm), not for EDGES (181x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 1.07 W/kg; SAR(10g) = 0.617 W/kg



0.6-2GHz Triple Flat Phone Template

Power Not Reduced - Mobile Hotspot

Date/Time: 4/3/2013 5:43:48 PM

DUT Serial: LXSZ1V0022

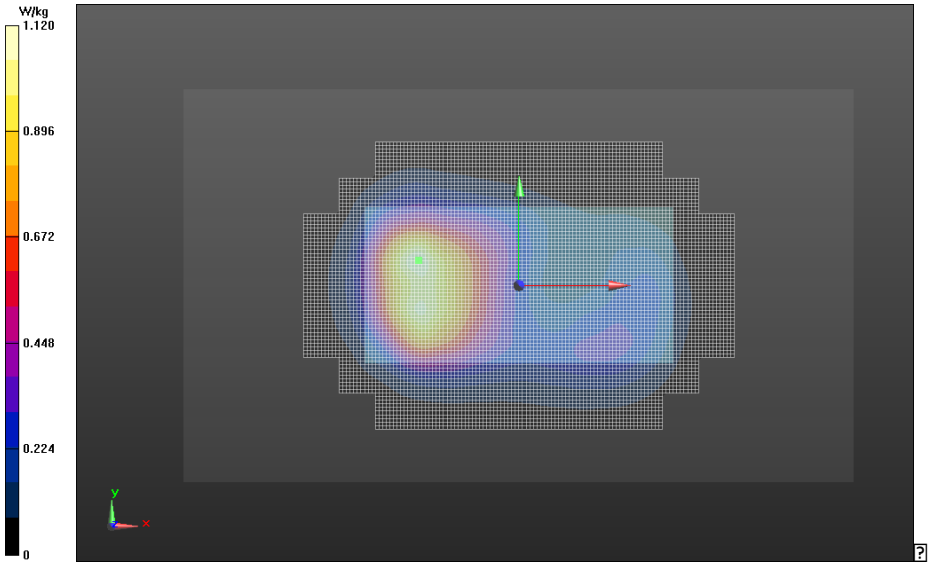
DASY Configuration:

- Probe: ES3DV3 - SN3184; ConvF(4.88,4.88,4.88); Calibrated: 4/25/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn378; Calibrated: 4/11/2012
- Phantom: R#-1, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

Communication System: _LTE Band 25; Communication System Band: Band 25: 20 MHz BW; Frequency: 1860 MHz, Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=1860 MHz; σ = 1.505; ε_r = 48.92 mho/m; ρ = 1000 kg/m^3

Triple Flat Phone Template/Area Scan (15mm), not for EDGES, not for FCC 2450 TA... (181x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Fast SAR: SAR(1g) = 0.999 W/kg; SAR(10g) = 0.606 W/kg



Triple Flat Phone Template

Power Not Reduced - Mobile Hotspot

Date/Time: 4/12/2013 8:54:28 AM

DUT Serial: LXVE110019

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(6.86,6.86,6.86); Calibrated: 8/24/2012;
- Sensor-Surface: 4 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

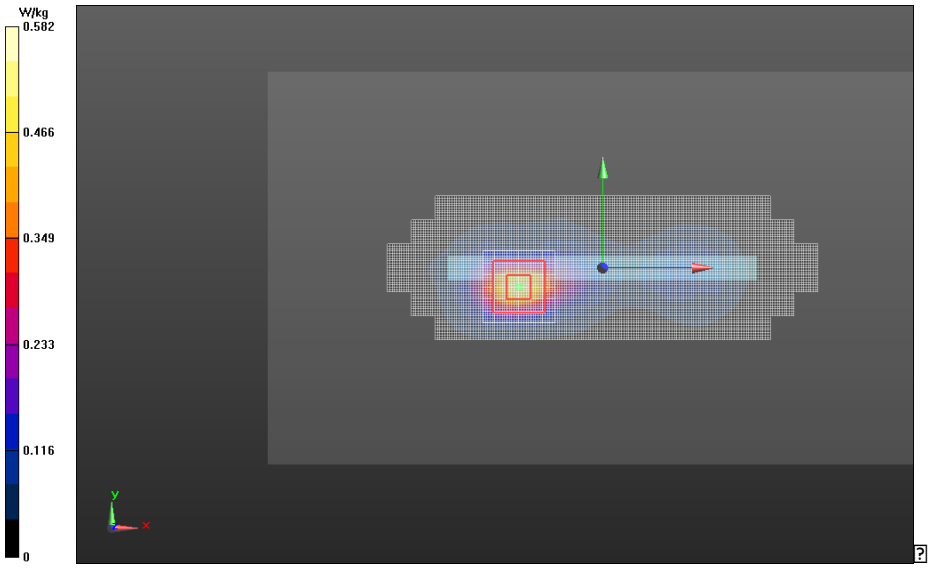
Communication System: _Wi-Fi 2450MHz; Communication System Band: 2450MHz WIFI; Frequency: 2437 MHz, Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=2437 MHz; σ = 1.974; ε_r = 50.34 mho/m; ρ = 1000 kg/m^3

2-3GHz Triple Flat Phone Template/Area Scan (10mm) (261x141x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Fast SAR: SAR(1g) = 0.470 W/kg; SAR(10g) = 0.212 W/kg

2-3GHz Triple Flat Phone Template/7x7x7 Zoom Scan (2-3GHz) (31x31x36)/Cube 0: Interpolated grid: dx=1.000 mm, dy=1.000 mm, dz=1.000 mm

Reference Value = 11.653 V/m, Power Drift = -0.031 dB
Averaged SAR: SAR(1g) = 0.492 W/kg; SAR(10g) = 0.223 W/kg



Power Not Reduced - Mobile Hotspot

Date/Time: 4/7/2013 8:08:13 AM

DUT Serial: LXVE110019

DASY Configuration:

- Probe: EX3DV4 - SN3730; ConvF(3.81,3.81,3.81); Calibrated: 8/24/2012;
- Sensor-Surface: 2 mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn784; Calibrated: 3/6/2013
- Phantom: R#-3, Triple Flat Phantom 5.1C (Rev.4); Type: QD 000 P51 CA; Serial: n/a
- DASY52 52.8.5(1059); SEMCAD X Version 14.6.8 (7028)

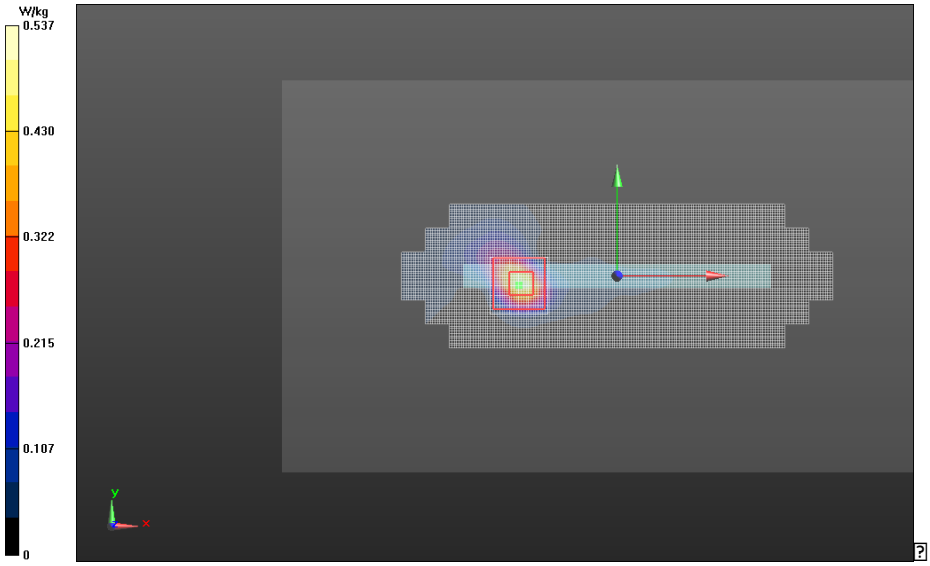
Communication System: _WIFI 5-6GHz; Communication System Band: 5785 MHz Sub-Band; Frequency: 5785 MHz, Communication System PAR: 0.00 dB; PMF: 1.000; Duty Cycle: 1:1.000
Medium Parameters used: f=5785 MHz; σ = 6.209; ε_r = 44.80 mho/m; ρ = 1000 kg/m^3

TRIPLE Flat Phone Against Flat Section/Area Scan - Body (10mm) (281x161x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Fast SAR: SAR(1g) = 0.229 W/kg; SAR(10g) = 0.0737 W/kg

TRIPLE Flat Phone Against Flat Section/7x7x12 Zoom Scan (5-6GHz) (31x31x31)/Cube 0: Interpolated grid: dx=0.800 mm, dy=0.800 mm, dz=0.400 mm

Reference Value = 9.012 V/m, Power Drift = -0.00994 dB
Averaged SAR: SAR(1g) = 0.263 W/kg; SAR(10g) = 0.0807 W/kg



END OF REPORT