Date/Time: 6/23/2007 11:18:32 AM

Test Laboratory: Compliance Certification Services Inc.

# D5GHz V2 SN 1004

## DUT: Dipole 5GHz ; Type: D5GHz V2; Serial: 1004

Communication System: CW5GHz; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; $\sigma$ = 5.4 mho/m; $\varepsilon_r$ = 36.4; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Air Temperature:25.5 deg C;Liquid Temperature:24.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3531; ConvF(4.28, 4.28, 4.28);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

## Pin=250mW,d=10mm f=5800MHz/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

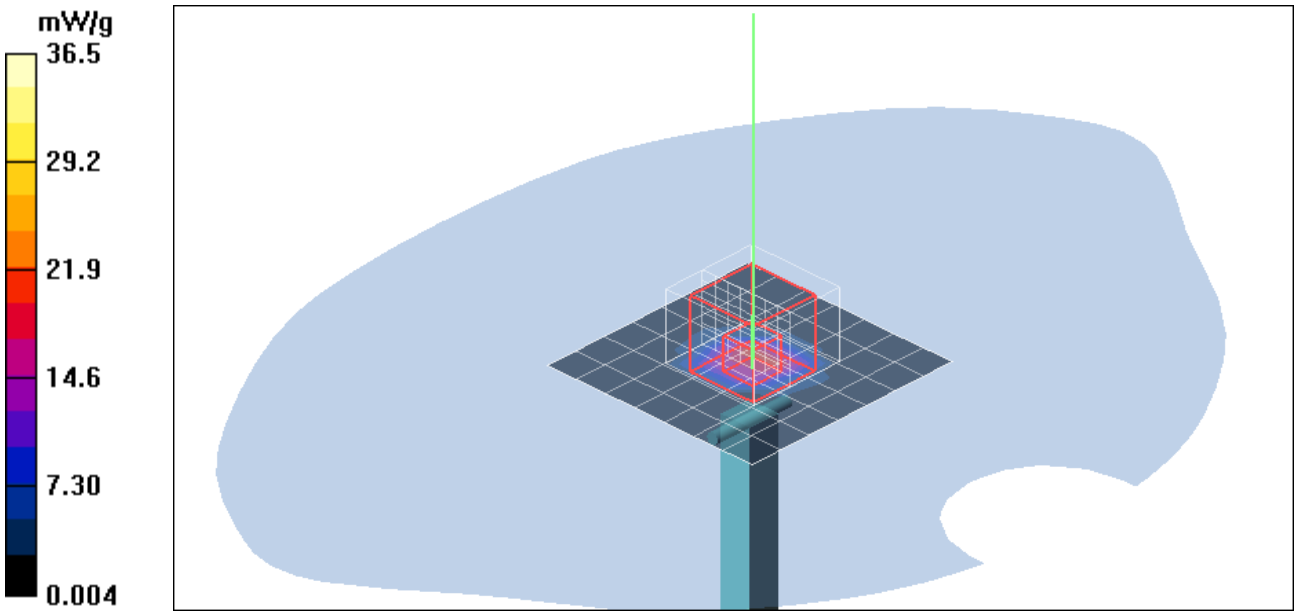
Maximum value of SAR (measured) = 46.5 mW/g

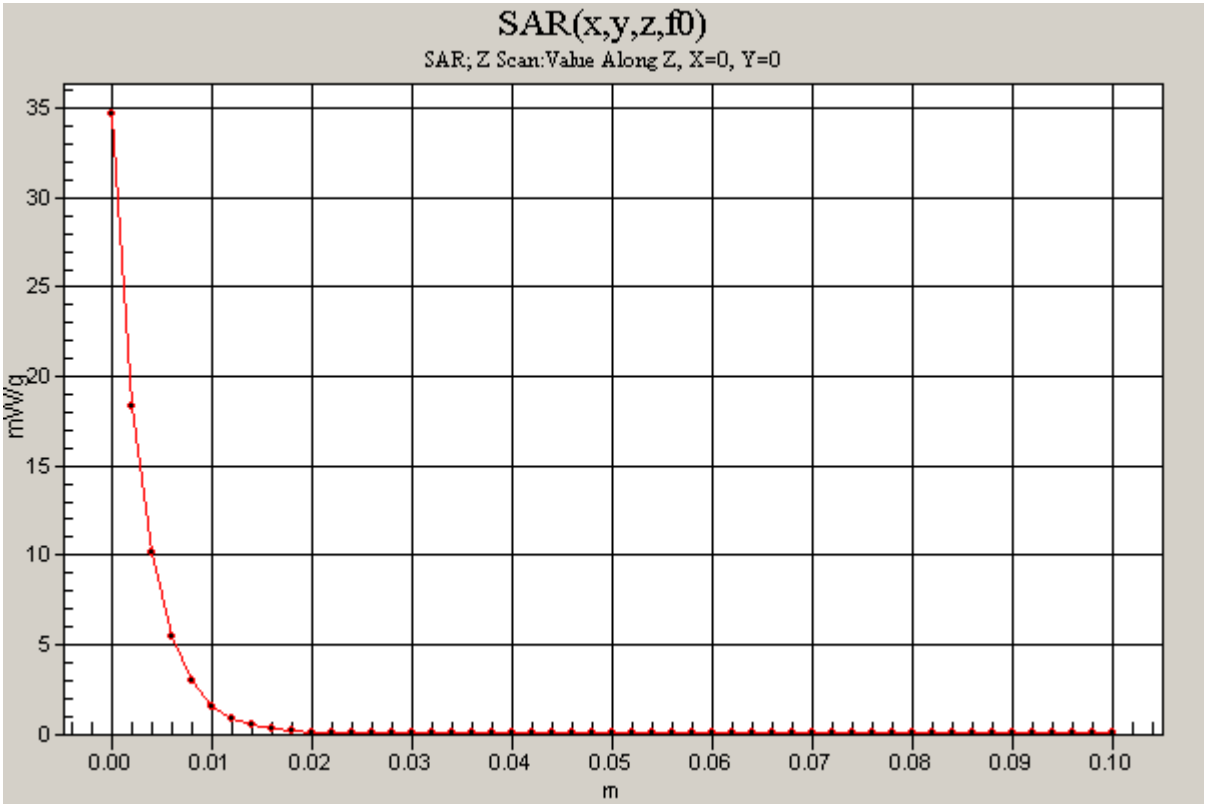
## Pin=250mW,d=10mm f=5800MHz/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 77.7 V/m; Power Drift = -0.012 dB
Peak SAR (extrapolated) = 64.2 W/kg
**SAR(1 g) = 19.3 mW/g; SAR(10 g) = 4.9 mW/g**
Maximum value of SAR (measured) = 41.5 mW/g

## Pin=250mW,d=10mm f=5800MHz/Z Scan (1x1x51): Measurement grid: dx=20mm, dy=20mm, dz=2mm

Maximum value of SAR (measured) = 34.7 mW/g


mW/g
36.5
29.2
21.9
14.6
7.30
0.004


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
m
0
5
10
15
20
25
30
35
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10

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Test Laboratory: Compliance Certification Services Inc.

# D5GHz V2 SN 1004

## DUT: Dipole 5GHz ; Type: D5GHz V2; Serial: 1004

Communication System: CW5GHz; Frequency: 5800 MHz;Duty Cycle: 1:1
Medium parameters used: f = 5800 MHz; $\sigma$ = 6.27 mho/m; $\varepsilon_r$ = 47.2; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Air Temperature:25.5 deg C;Liquid Temperature:24.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3531; ConvF(3.61, 3.61, 3.61);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

## Pin=250mW,d=10mm f=5800MHz/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

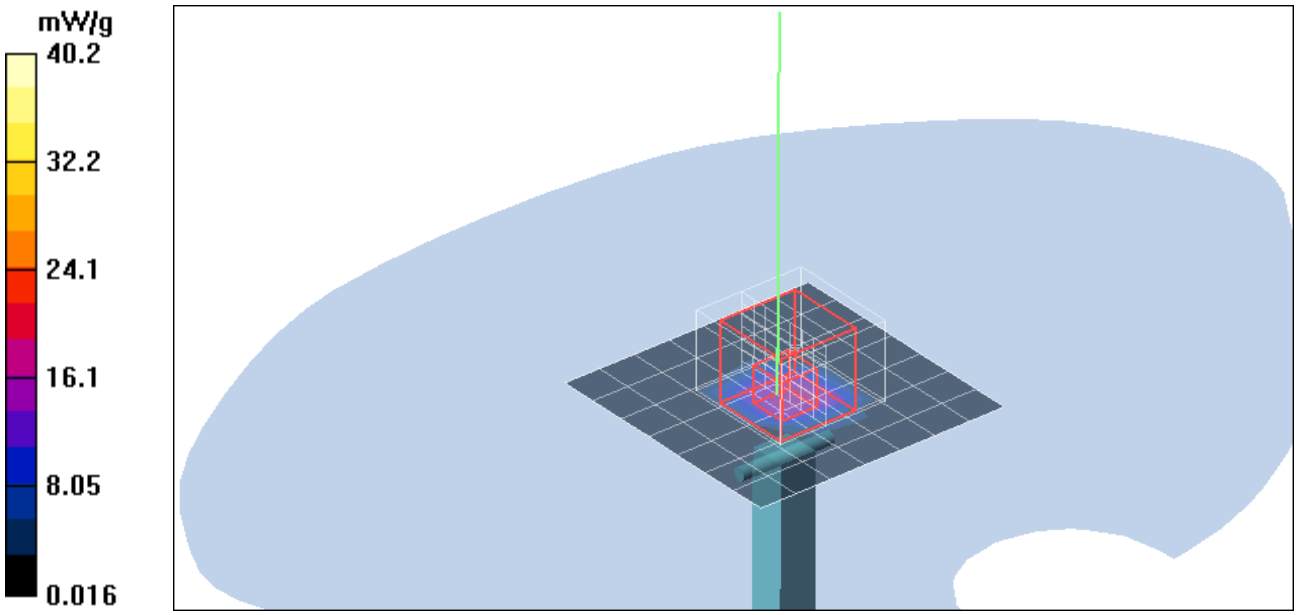
Maximum value of SAR (measured) = 19.2 mW/g

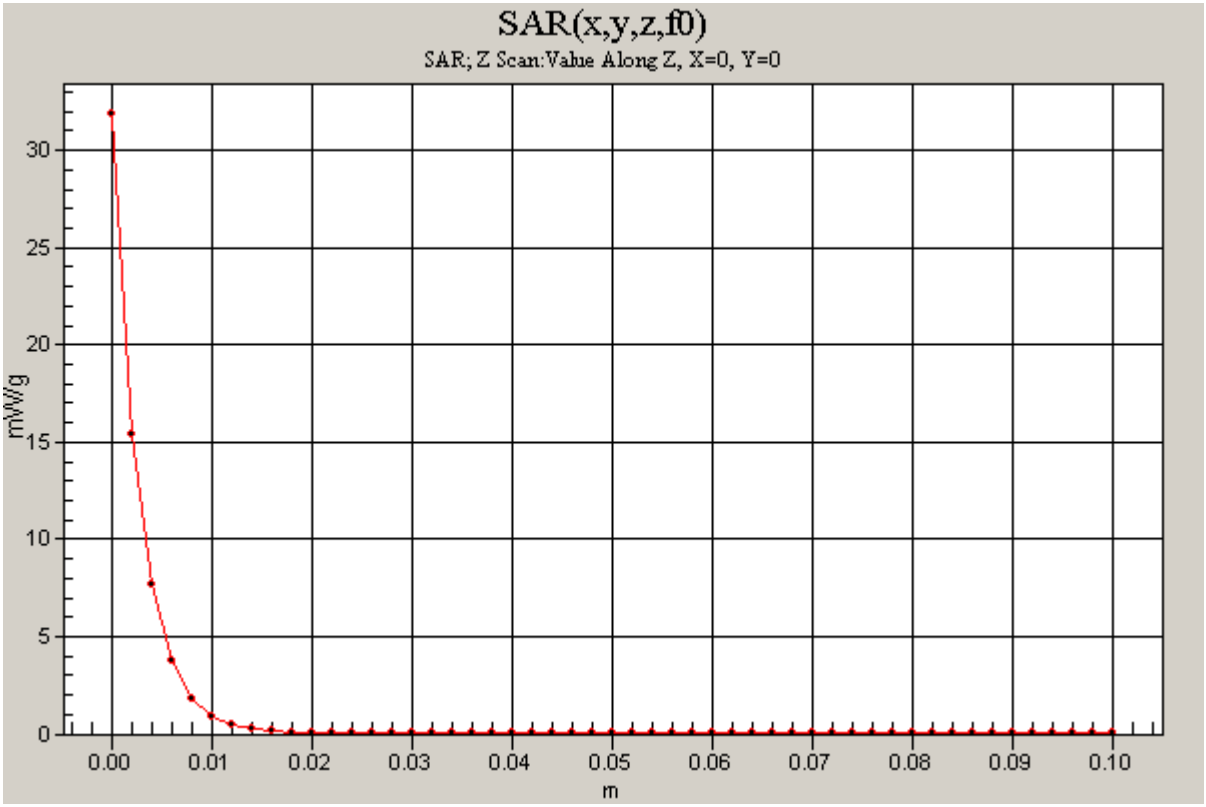
## Pin=250mW,d=10mm f=5800MHz/Zoom Scan (8x8x8)/Cube 0:

Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm
Reference Value = 71.6 V/m; Power Drift = -0.042 dB
Peak SAR (extrapolated) = 87.5 W/kg
**SAR(1 g) = 17.9 mW/g; SAR(10 g) = 4.94 mW/g**
Maximum value of SAR (measured) = 30.2 mW/g

## Pin=250mW,d=10mm f=5800MHz/Z Scan (1x1x51): Measurement grid: dx=20mm, dy=20mm, dz=2mm

Maximum value of SAR (measured) = 31.9 mW/g


mW/g
40.2
32.2
24.1
16.1
8.05
0.016


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
30
25
20
15
10
5
0
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.10
m

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Test Laboratory: Compliance Certification Services Inc.

# 5.8GHz-Left Head 28032xxx-A

### DUT: 28052xxx; Type: handset; Serial: N/A

Communication System: 802.11A ; Frequency: 5829.408 MHz;Duty Cycle: 1:18.3
Medium parameters used (interpolated): f = 5829.408 MHz; $\sigma$ = 5.44 mho/m; $\varepsilon_r$ = 36.4; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Air Temperature:25.5 deg C;Liquid Temperature:24.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3531; ConvF(4.28, 4.28, 4.28);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

## Left Cheek Middle CH5/Area Scan (9x15x1): Measurement grid: dx=10mm, dy=10mm

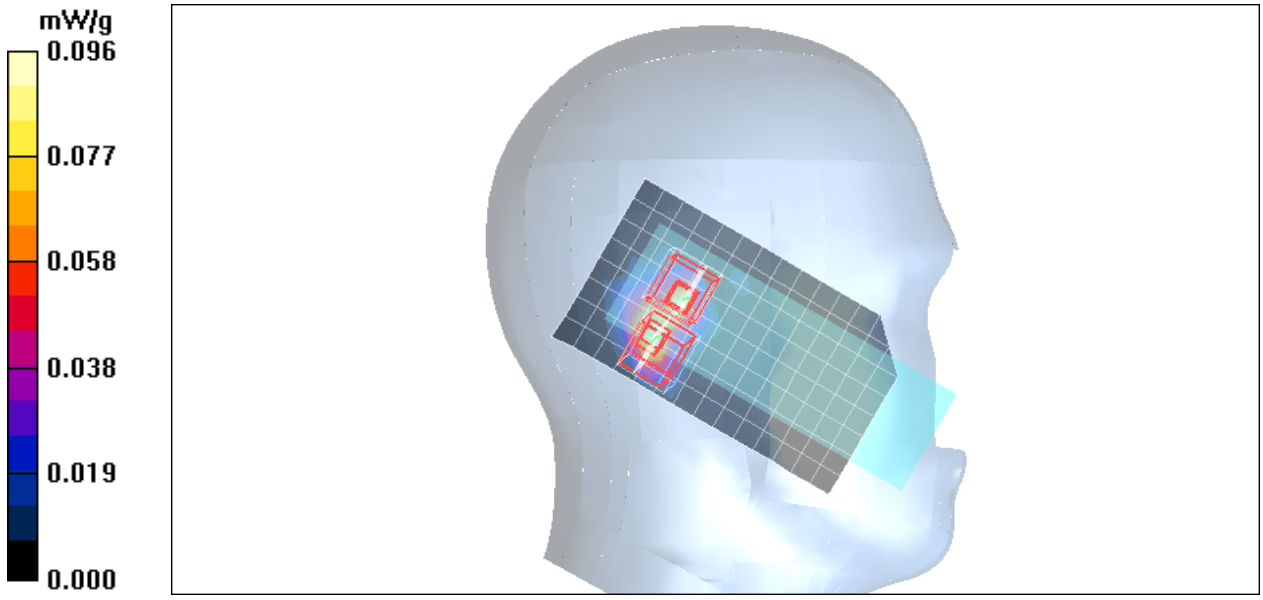
Maximum value of SAR (measured) = 0.096 mW/g

## Left Cheek Middle CH5/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.61 V/m; Power Drift = -0.136 dB
Peak SAR (extrapolated) = 0.299 W/kg
**SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.013 mW/g**
Maximum value of SAR (measured) = 0.087 mW/g

## Left Cheek Middle CH5/Zoom Scan (7x7x9)/Cube 1: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.61 V/m; Power Drift = -0.136 dB
Peak SAR (extrapolated) = 0.197 W/kg
**SAR(1 g) = 0.053 mW/g; SAR(10 g) = 0.016 mW/g**
Maximum value of SAR (measured) = 0.087 mW/g


mW/g
0.096
0.077
0.058
0.038
0.019
0.000

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Test Laboratory: Compliance Certification Services Inc.

# 5.8GHz-Left Head 28032xxx-A

### DUT: 28052xxx; Type: handset; Serial: N/A

Communication System: 802.11A ; Frequency: 5829.408 MHz;Duty Cycle: 1:18.3
Medium parameters used (interpolated): f = 5829.408 MHz; $\sigma$ = 5.44 mho/m; $\varepsilon_r$ = 36.4; $\rho$ = 1000 kg/m$^3$
Phantom section: Left Section
Air Temperature:25.5 deg C;Liquid Temperature:24.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

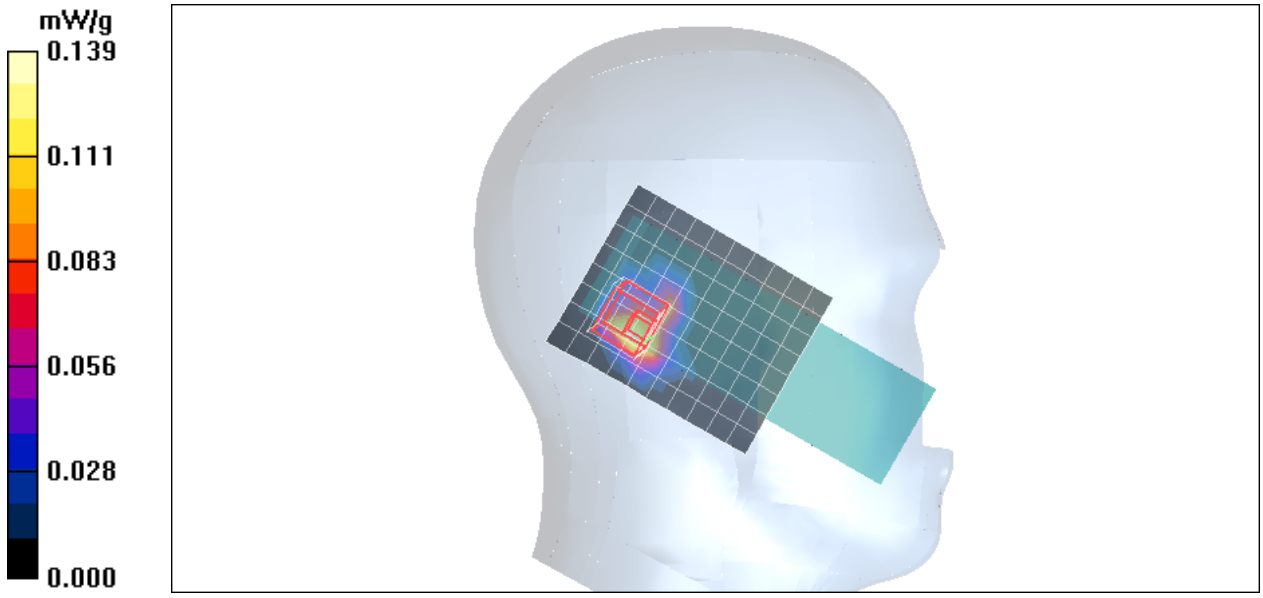
- Probe: EX3DV3 - SN3531; ConvF(4.28, 4.28, 4.28);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

## Left Tilted Middle CH5/Area Scan (9x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.139 mW/g

## Left Tilted Middle CH5/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.99 V/m; Power Drift = -0.135 dB
Peak SAR (extrapolated) = 0.204 W/kg
**SAR(1 g) = 0.057 mW/g; SAR(10 g) = 0.017 mW/g**
Maximum value of SAR (measured) = 0.104 mW/g


mW/g
0.139
0.111
0.083
0.056
0.028
0.000

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Test Laboratory: Compliance Certification Services Inc.

# 5.8GHz-Right Head 28032xxx-A

### DUT: 28052xxx; Type: handset; Serial: N/A

Communication System: 802.11A ; Frequency: 5829.408 MHz;Duty Cycle: 1:18.3
Medium parameters used (interpolated): f = 5829.408 MHz; $\sigma$ = 5.44 mho/m; $\varepsilon_r$ = 36.4; $\rho$ = 1000 kg/m$^3$
Phantom section: Right Section
Air Temperature:25.5 deg C;Liquid Temperature:24.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

- Probe: EX3DV3 - SN3531; ConvF(4.28, 4.28, 4.28);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

## Right Cheek Middle CH5/Area Scan (8x14x1): Measurement grid:

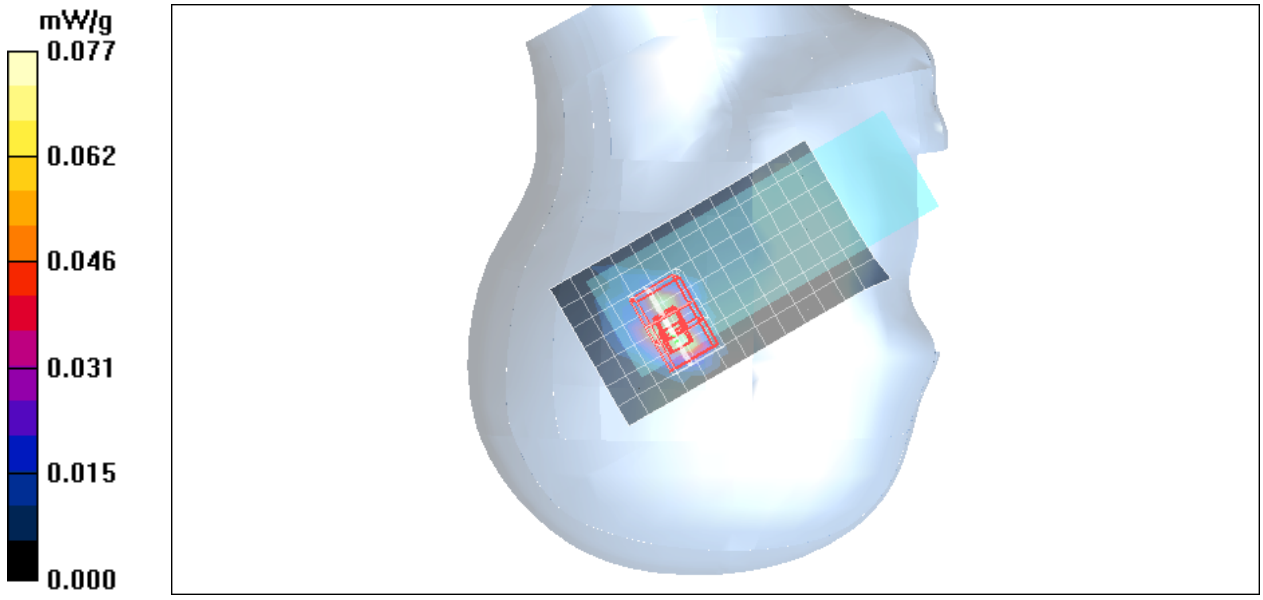
dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.073 mW/g

## Right Cheek Middle CH5/Zoom Scan (7x7x9)/Cube 0: Measurement

grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 3.53 V/m; Power Drift = -0.135 dB
Peak SAR (extrapolated) = 0.602 W/kg
**SAR(1 g) = 0.059 mW/g; SAR(10 g) = 0.019 mW/g**
Maximum value of SAR (measured) = 0.071 mW/g

## Right Cheek Middle CH5/Zoom Scan (7x7x9)/Cube 1: Measurement

grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 3.53 V/m; Power Drift = -0.135 dB
Peak SAR (extrapolated) = 0.656 W/kg
**SAR(1 g) = 0.067 mW/g; SAR(10 g) = 0.018 mW/g**
Maximum value of SAR (measured) = 0.077 mW/g


mW/g
0.077
0.062
0.046
0.031
0.015
0.000

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Test Laboratory: Compliance Certification Services Inc.

# 5.8GHz-Right Head 28032xxx-A

### DUT: 28052xxx; Type: handset; Serial: N/A

Communication System: 802.11A ; Frequency: 5829.408 MHz;Duty Cycle: 1:18.3
Medium parameters used (interpolated): f = 5829.408 MHz; $\sigma$ = 5.44 mho/m; $\varepsilon_r$ = 36.4; $\rho$ = 1000 kg/$m^3$
Phantom section: Right Section
Air Temperature:25.5 deg C;Liquid Temperature:24.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

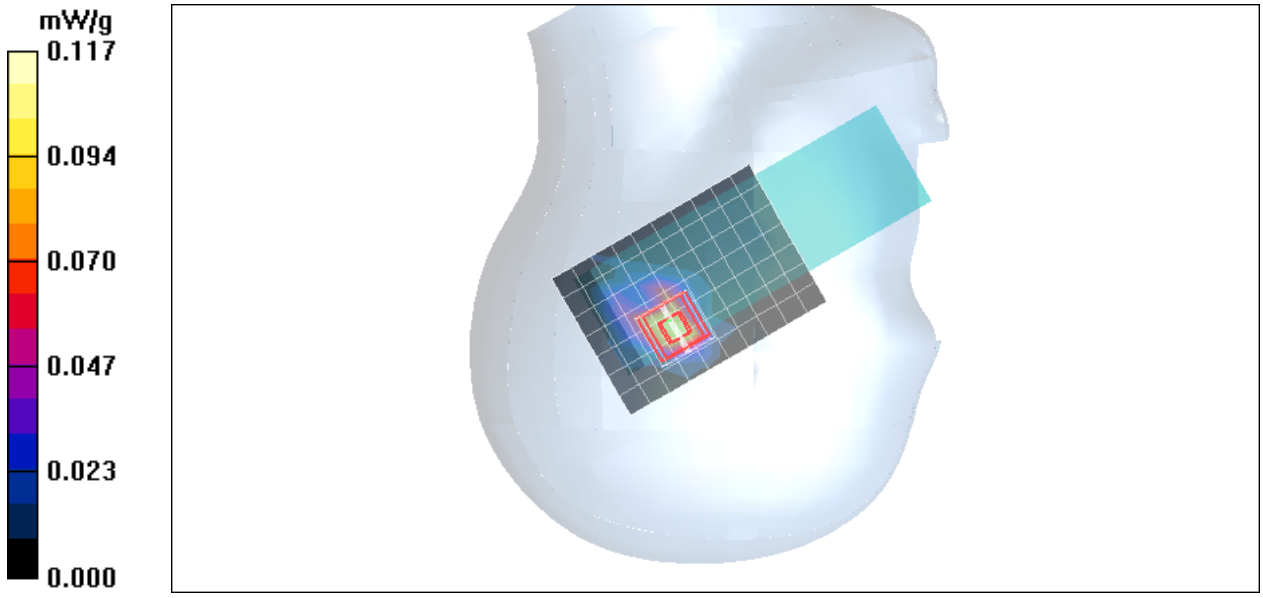
- Probe: EX3DV3 - SN3531; ConvF(4.28, 4.28, 4.28);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

## Right Tilted Middle CH5/Area Scan (8x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.101 mW/g

## Right Tilted Middle CH5/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.68 V/m; Power Drift = -0.134 dB
Peak SAR (extrapolated) = 0.561 W/kg
**SAR(1 g) = 0.064 mW/g; SAR(10 g) = 0.022 mW/g**
Maximum value of SAR (measured) = 0.117 mW/g


mW/g
0.117
0.094
0.070
0.047
0.023
0.000

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Test Laboratory: Compliance Certification Services Inc.

# 5.8GHz Body Flat Touched 28032xxx-A

## DUT: 28052xxx; Type: handset; Serial: N/A

Communication System: 802.11A ; Frequency: 5829.408 MHz;Duty Cycle: 1:18.3
Medium parameters used (interpolated): f = 5829.408 MHz; $\sigma$ = 6.31 mho/m; $\varepsilon_r$ = 47.1; $\rho$ = 1000 kg/$m^3$
Phantom section: Flat Section
Air Temperature:25.5 deg C;Liquid Temperature:24.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

DASY4 Configuration:

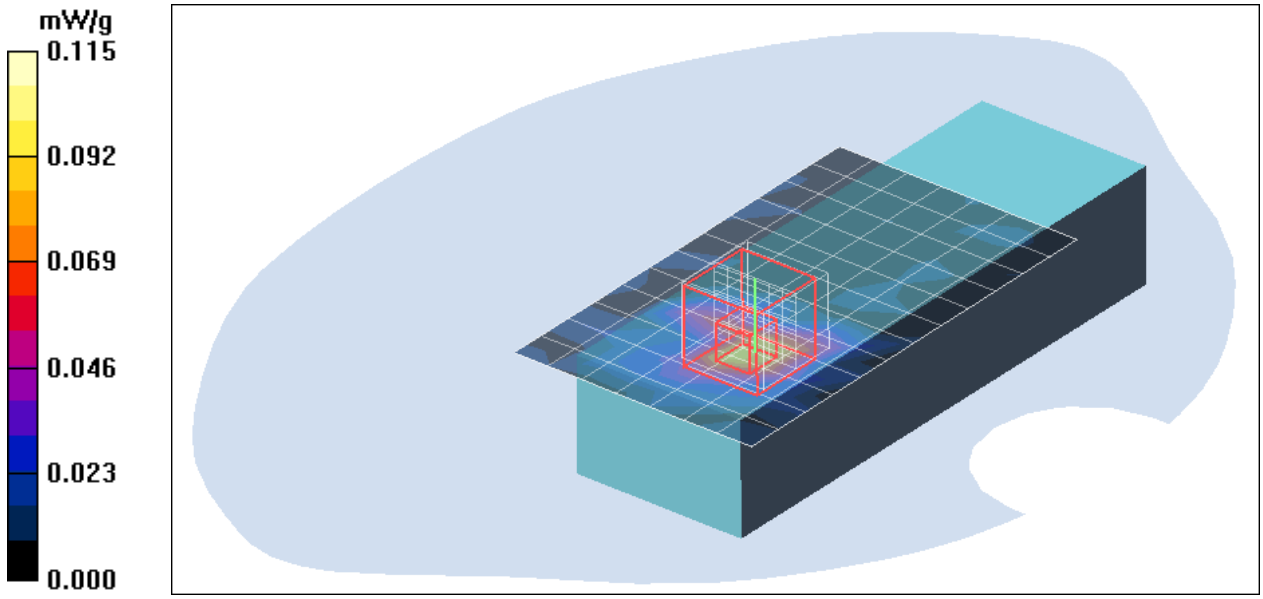
- Probe: EX3DV3 - SN3531; ConvF(3.61, 3.61, 3.61);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

## Body Front Middle CH5/Area Scan (8x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.092 mW/g

## Body Front Middle CH5/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2.5mm

Reference Value = 3.20 V/m; Power Drift = -0.005 dB
Peak SAR (extrapolated) = 0.553 W/kg
**SAR(1 g) = 0.062 mW/g; SAR(10 g) = 0.021 mW/g**
Maximum value of SAR (measured) = 0.115 mW/g


mW/g
0.115
0.092
0.069
0.046
0.023
0.000

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Test Laboratory: Compliance Certification Services Inc.

# 5.8GHz Body Flat Touched 28032xxx-A

## DUT: 28052xxx; Type: handset; Serial: N/A

Communication System: 802.11A ; Frequency: 5829.408 MHz;Duty Cycle: 1:18.3
Medium parameters used (interpolated): f = 5829.408 MHz; $\sigma$ = 6.31 mho/m; $\varepsilon_r$ = 47.1; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Air Temperature:25.5 deg C;Liquid Temperature:24.5 deg C
Area Scan Find Secondary Maximum Within 2dB and with a peak SAR value greater than 0.0012W/kg

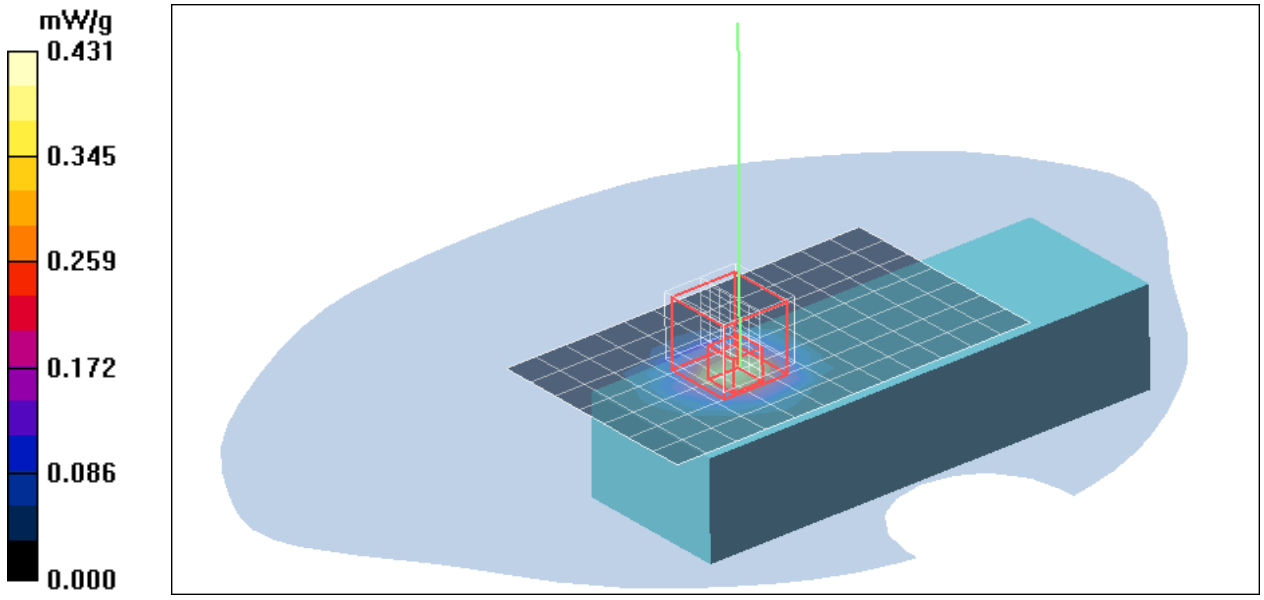
DASY4 Configuration:

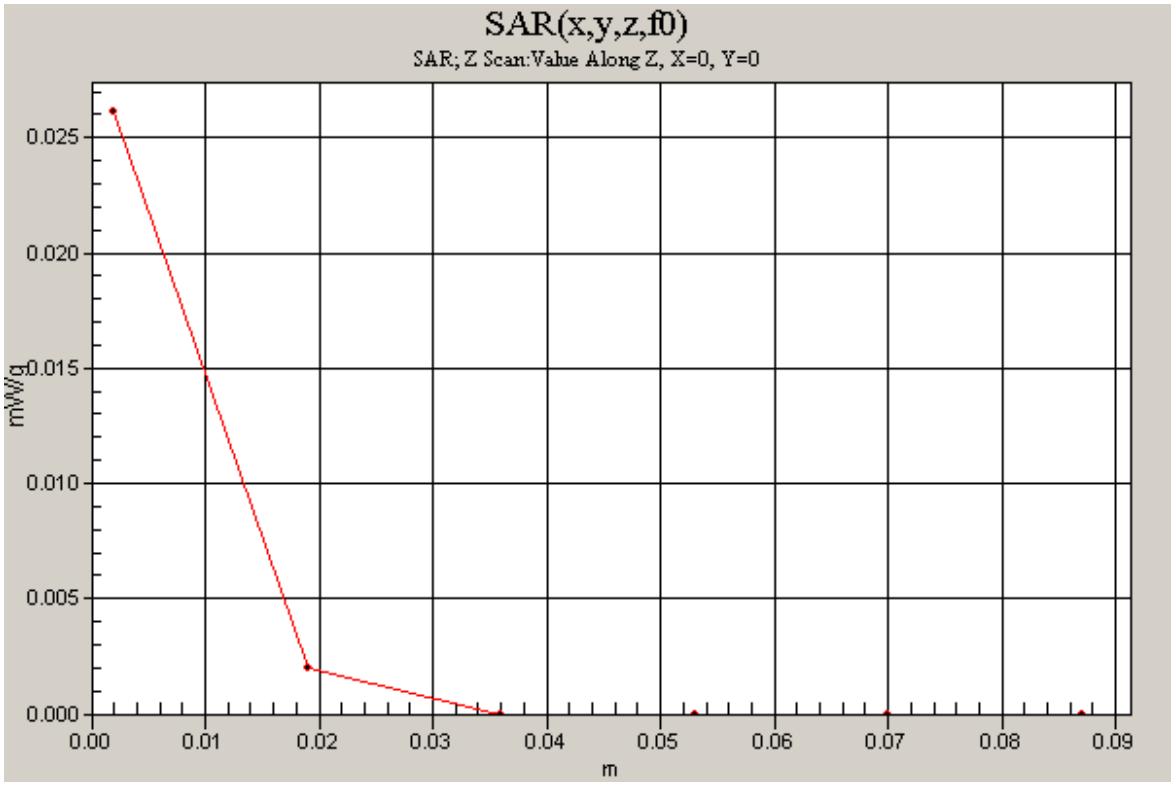
- Probe: EX3DV3 - SN3531; ConvF(3.61, 3.61, 3.61);
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 8/23/2006
- Phantom: SAM 12; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

**Body Back Middle CH5/Area Scan (8x13x1):** Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 0.394 mW/g

**Body Back Middle CH5/Zoom Scan (7x7x9)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2.5mm
Reference Value = 9.09 V/m; Power Drift = -0.122 dB
Peak SAR (extrapolated) = 0.732 W/kg
**SAR(1 g) = 0.254 mW/g; SAR(10 g) = 0.081 mW/g**
Maximum value of SAR (measured) = 0.431 mW/g

**Body Back Middle CH5/Z Scan (1x1x6):** Measurement grid: dx=20mm, dy=20mm, dz=17mm
Maximum value of SAR (measured) = 0.026 mW/g


mW/g
0.431
0.345
0.259
0.172
0.086
0.000


SAR(x,y,z,f0)
SAR; Z Scan:Value Along Z, X=0, Y=0
mW/g
0.025
0.020
0.015
0.010
0.005
0.000
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
m