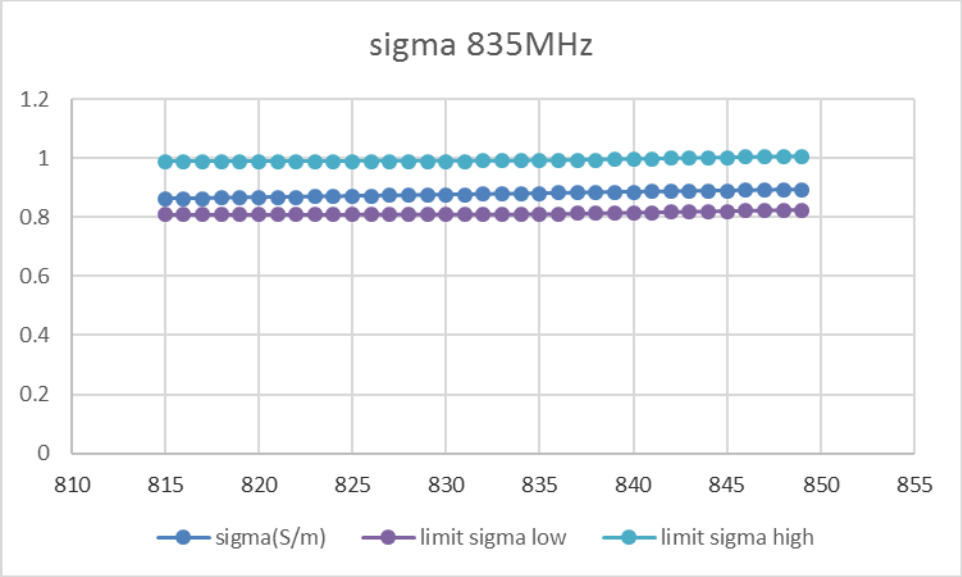
# Chronological Liquid analysis results, Dipole Verification and Product Test Plots

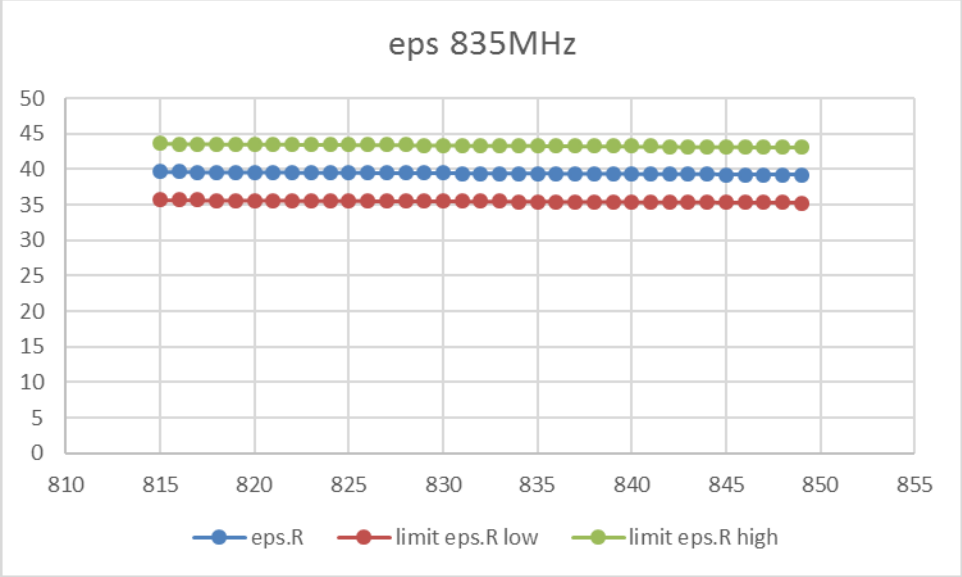
Target Values for Head Liquid Dipole verification for $1cm^2$ are based on Dipole calibration certificates in Appendix C.

- 835 MHz: 2.37 W/kg +-10% = 2.133 to 2.607 W/kg
- 1900 MHz: 9.29 W/kg +-10% = 8.316 to 10.219 W/kg
- 1750 MHz: 9.00 W/kg +-10% = 8.1 to 9.9 W/kg
- 750 MHz: 2.07 W/kg +-10% = 1.863 to 2.277 W/kg
- 2450 MHz: 12.8 W/kg +-10% = 11.52 to 14.08 W/kg

**2/10/2020**

## Liquid qualification 835 MHz



## 2/11/2020

### System Verification 835MHz Dipole

Date/Time: 2/11/2020 11:05:10 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified**

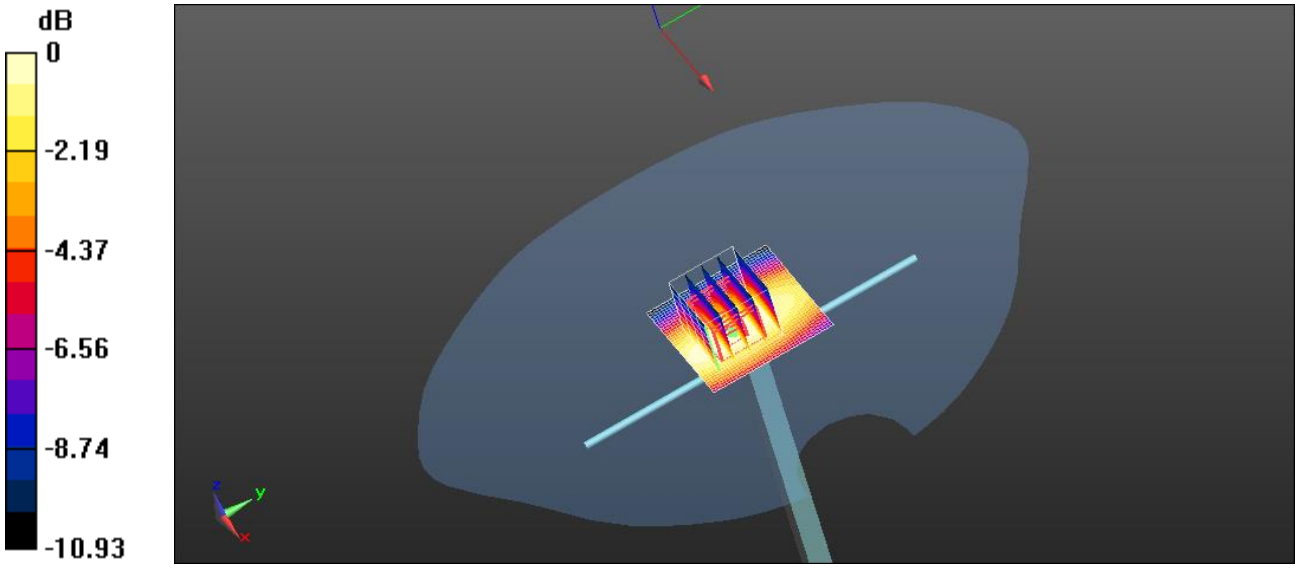
Communication System: UID 0, CW (0); Frequency: 835 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 835 MHz; $\sigma$ = 0.88 S/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 54.02 V/m; Power Drift = -0.19 dB
**Fast SAR: SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.54 W/kg**
Maximum value of SAR (interpolated) = 2.61 W/kg

**System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 54.02 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 3.26 W/kg
**SAR(1 g) = 2.19 W/kg; SAR(10 g) = 1.43 W/kg**
Maximum value of SAR (measured) = 2.56 W/kg




0 dB = 2.61 W/kg = 4.16 dBW/kg

## UMTS V, Front, No holster

Date/Time: 2/11/2020 3:00:37 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

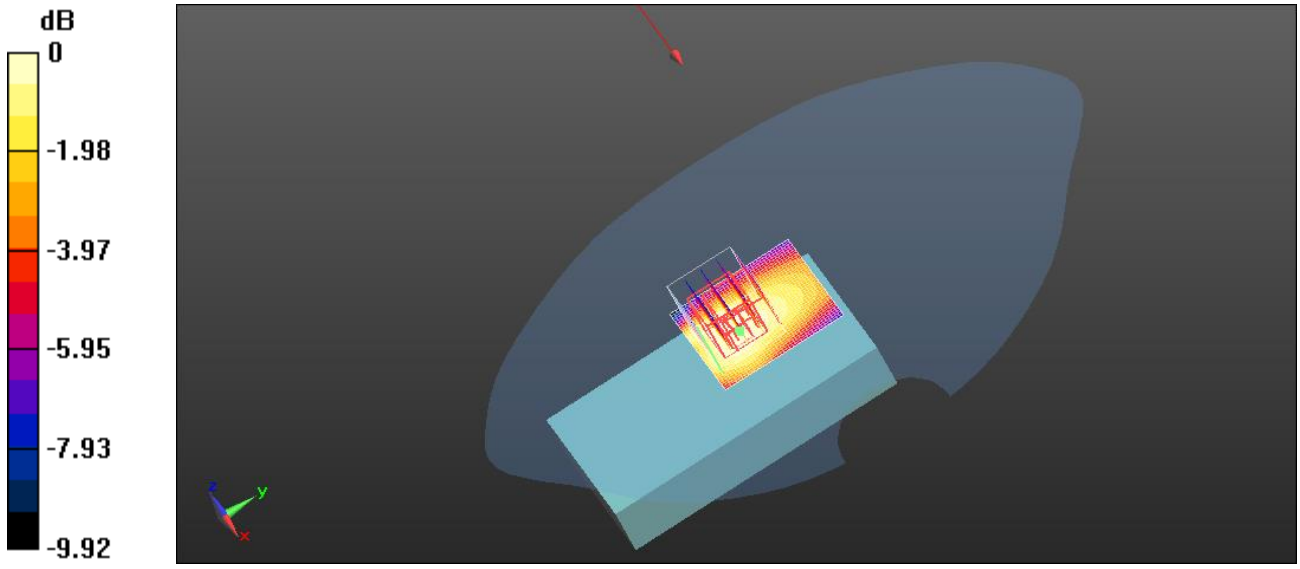
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

### System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 27.60 V/m; Power Drift = -0.18 dB
**Fast SAR: SAR(1 g) = 0.838 W/kg; SAR(10 g) = 0.588 W/kg**
Maximum value of SAR (interpolated) = 0.948 W/kg

**System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.60 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.18 W/kg
**SAR(1 g) = 0.801 W/kg; SAR(10 g) = 0.533 W/kg**

Maximum value of SAR (measured) = 0.938 W/kg




0 dB = 0.948 W/kg = -0.23 dBW/kg

## UMTS V, Back, No holster

Date/Time: 2/11/2020 3:18:30 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;

- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

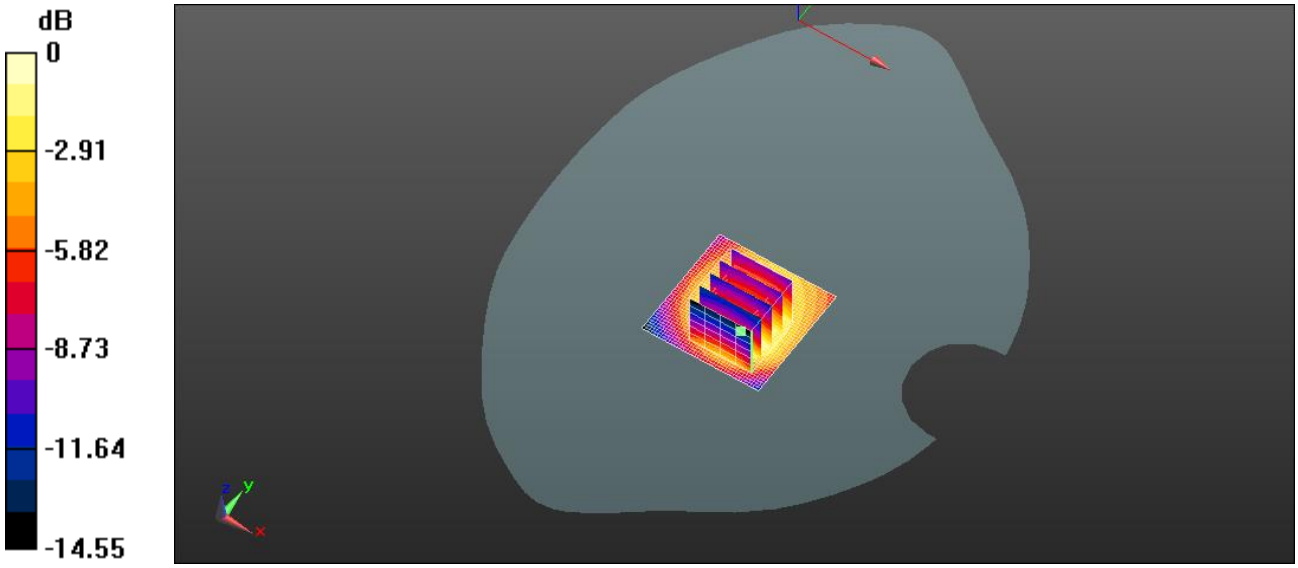
## System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 33.90 V/m; Power Drift = -0.18 dB
**Fast SAR: SAR(1 g) = 1.37 W/kg; SAR(10 g) = 0.921 W/kg**
Maximum value of SAR (interpolated) = 1.58 W/kg

## System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 33.90 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 1.84 W/kg
**SAR(1 g) = 1.19 W/kg; SAR(10 g) = 0.765 W/kg**

Maximum value of SAR (measured) = 1.41 W/kg




0 dB = 1.58 W/kg = 1.98 dBW/kg

## UMTS V, Left, No holster

Date/Time: 2/11/2020 3:45:07 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

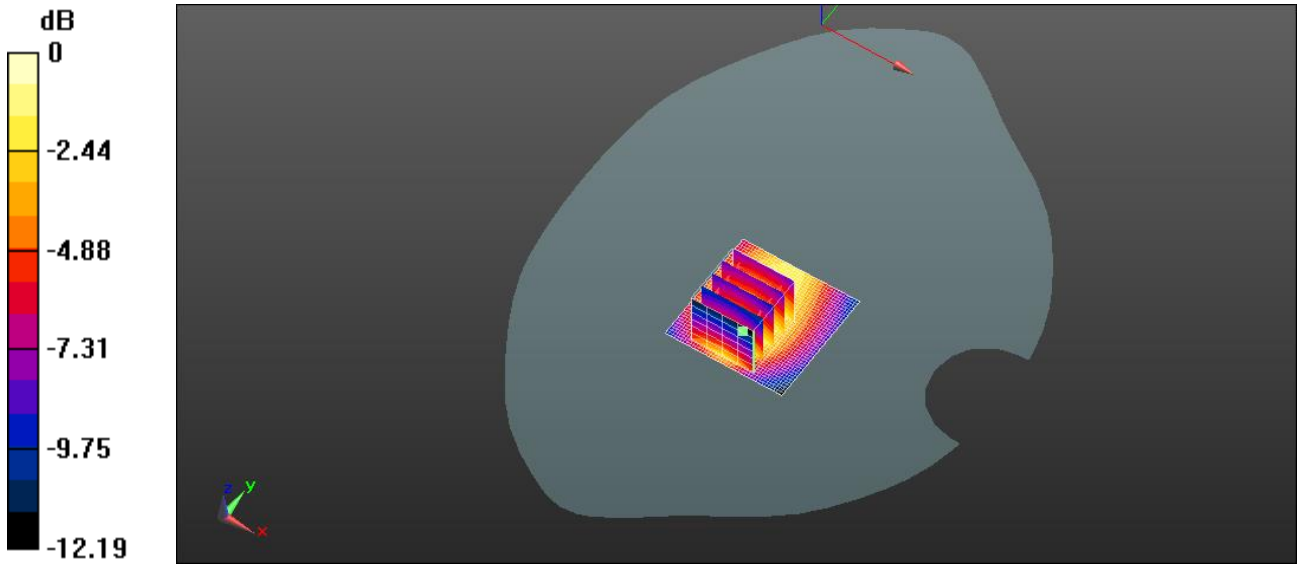
## System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 24.14 V/m; Power Drift = -0.15 dB
**Fast SAR: SAR(1 g) = 0.583 W/kg; SAR(10 g) = 0.382 W/kg**
Maximum value of SAR (interpolated) = 0.697 W/kg

## System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.14 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.880 W/kg
**SAR(1 g) = 0.525 W/kg; SAR(10 g) = 0.343 W/kg**

Maximum value of SAR (measured) = 0.614 W/kg




0 dB = 0.697 W/kg = -1.56 dBW/kg

## UMTS V, Right, No holster

Date/Time: 2/11/2020 4:07:13 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

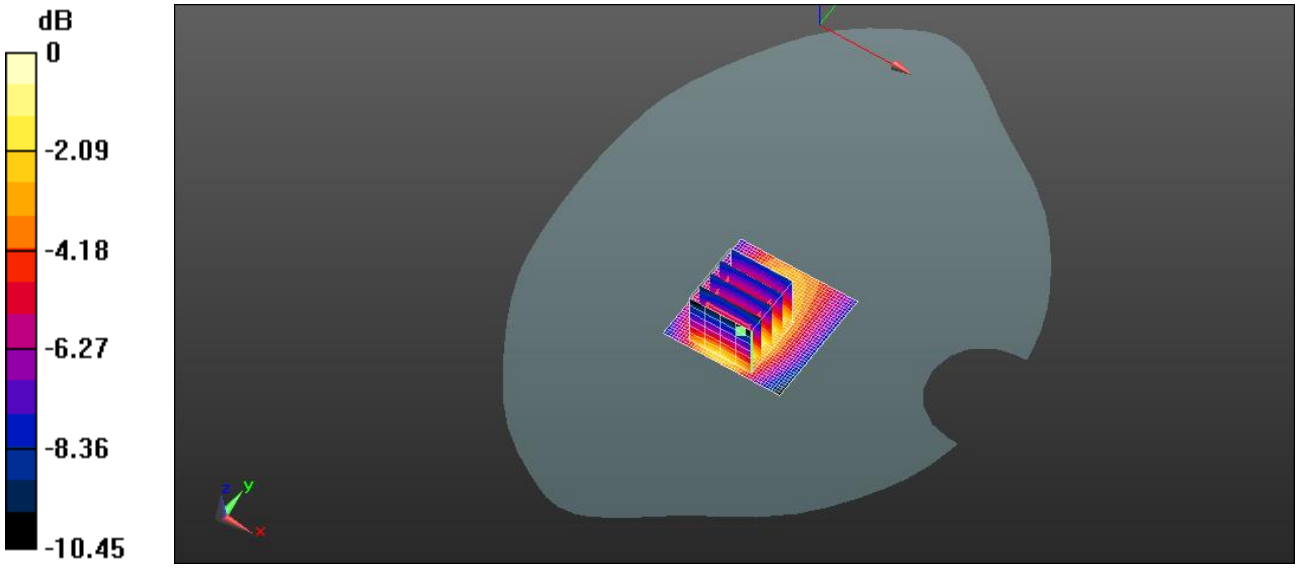
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

### System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 15.27 V/m; Power Drift = -0.29 dB
**Fast SAR: SAR(1 g) = 0.289 W/kg; SAR(10 g) = 0.187 W/kg**
Maximum value of SAR (interpolated) = 0.340 W/kg

### System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.27 V/m; Power Drift = -0.29 dB
Peak SAR (extrapolated) = 0.431 W/kg
**SAR(1 g) = 0.268 W/kg; SAR(10 g) = 0.165 W/kg**
Maximum value of SAR (measured) = 0.321 W/kg




0 dB = 0.340 W/kg = -4.69 dBW/kg

## UMTS V, Top, No holster

Date/Time: 2/11/2020 4:27:49 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

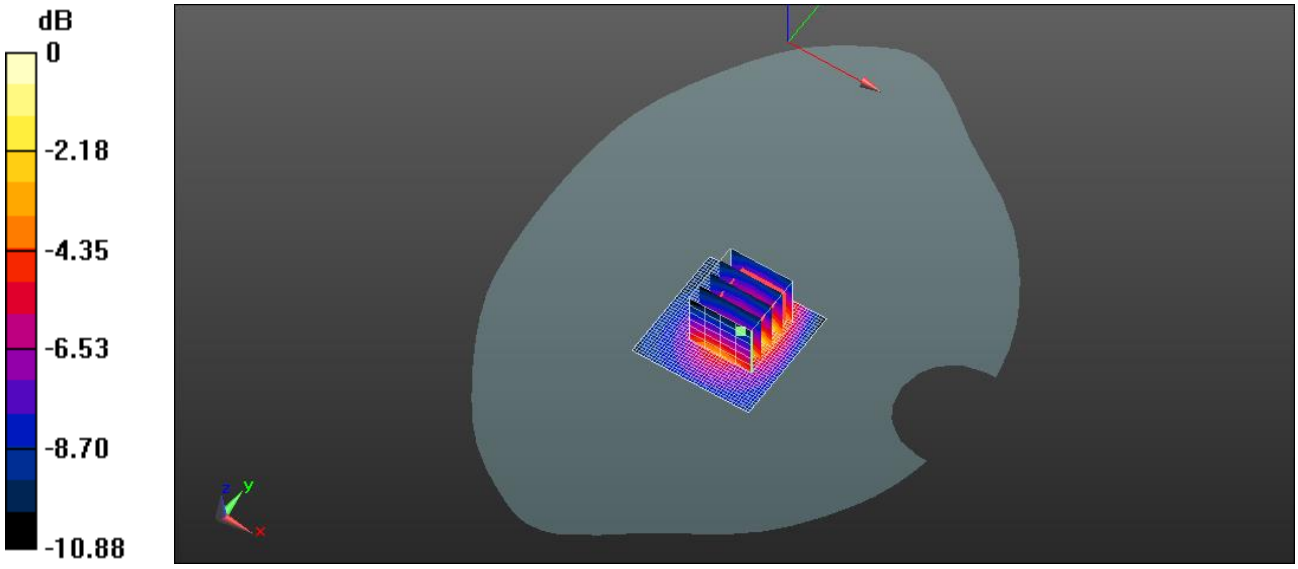
DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.12 V/m; Power Drift = -0.54 dB
**Fast SAR: SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.211 W/kg**
Maximum value of SAR (interpolated) = 0.436 W/kg

**System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 20.12 V/m; Power Drift = -0.54 dB
Peak SAR (extrapolated) = 0.824 W/kg
**SAR(1 g) = 0.355 W/kg; SAR(10 g) = 0.176 W/kg**
Maximum value of SAR (measured) = 0.471 W/kg




0 dB = 0.436 W/kg = -3.61 dBW/kg

## LTE 5, Top, No holster

Date/Time: 2/11/2020 5:12:37 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

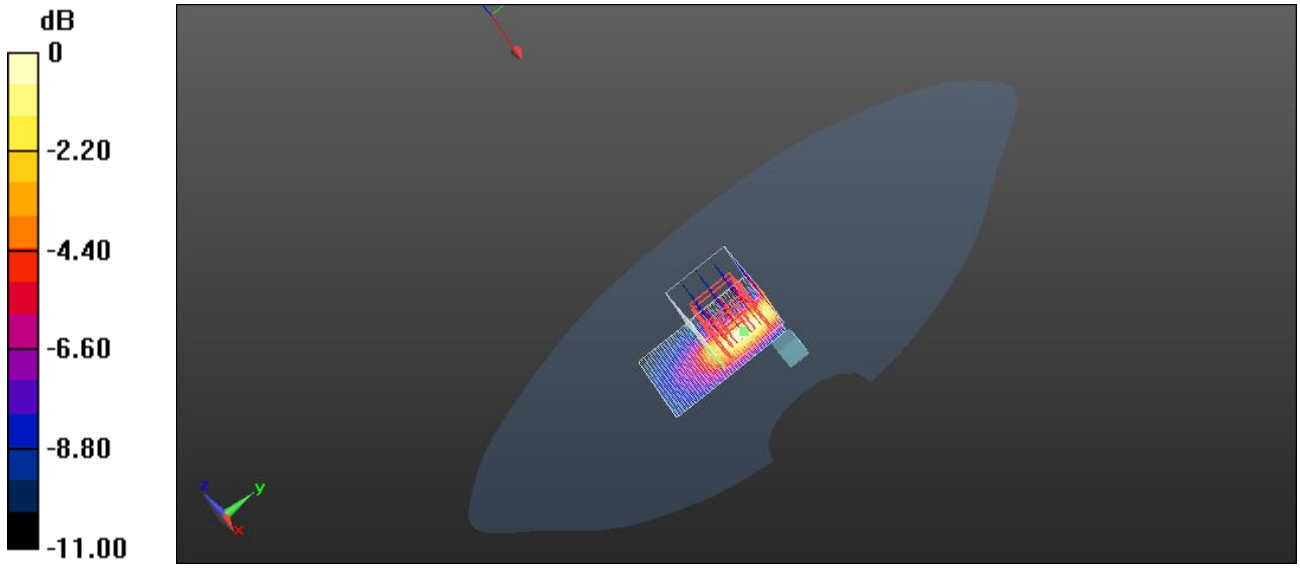
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.76 V/m; Power Drift = -0.38 dB
**Fast SAR: SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.183 W/kg**
Maximum value of SAR (interpolated) = 0.384 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 17.76 V/m; Power Drift = -0.38 dB
Peak SAR (extrapolated) = 0.745 W/kg
**SAR(1 g) = 0.315 W/kg; SAR(10 g) = 0.154 W/kg**
Maximum value of SAR (measured) = 0.401 W/kg




0 dB = 0.384 W/kg = -4.16 dBW/kg

## LTE 5, Front, No holster

Date/Time: 2/11/2020 5:35:11 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used (interpolated): f = 836.5 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.367; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.44 V/m; Power Drift = -0.09 dB
**Fast SAR: SAR(1 g) = 0.772 W/kg; SAR(10 g) = 0.532 W/kg**

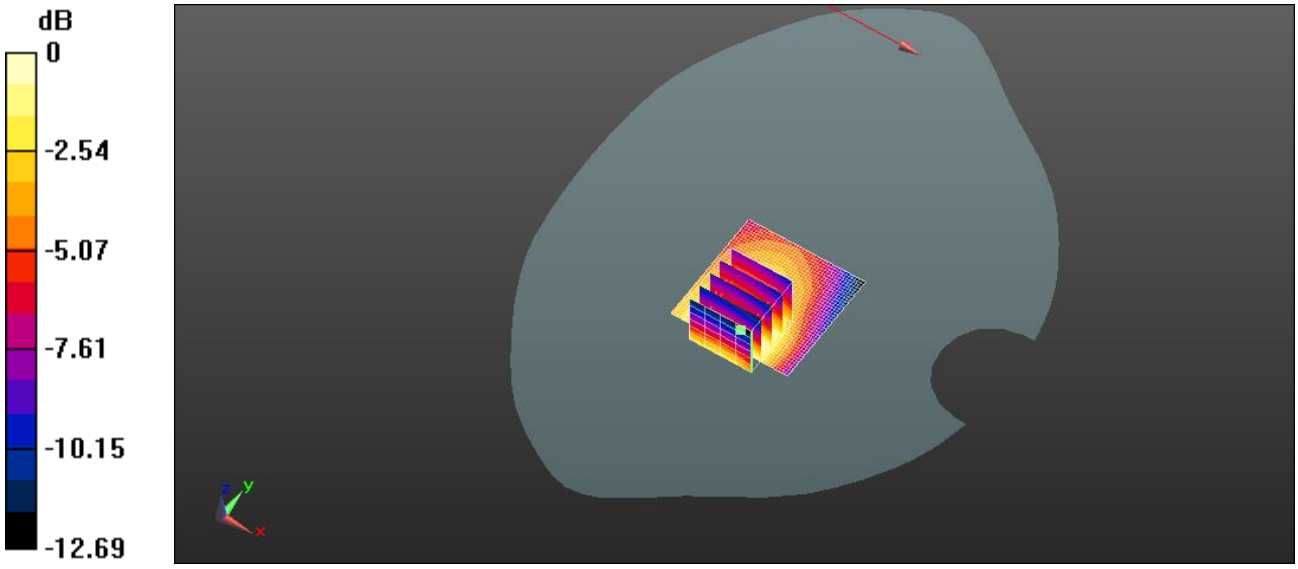
Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.875 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.44 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 1.33 W/kg
**SAR(1 g) = 0.731 W/kg; SAR(10 g) = 0.459 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.865 W/kg




0 dB = 0.875 W/kg = -0.58 dBW/kg

## LTE 5, Back, No holster

Date/Time: 2/11/2020 5:54:05 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used (interpolated): f = 836.5 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.367; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.80 V/m; Power Drift = -0.06 dB
**Fast SAR: SAR(1 g) = 0.814 W/kg; SAR(10 g) = 0.560 W/kg**

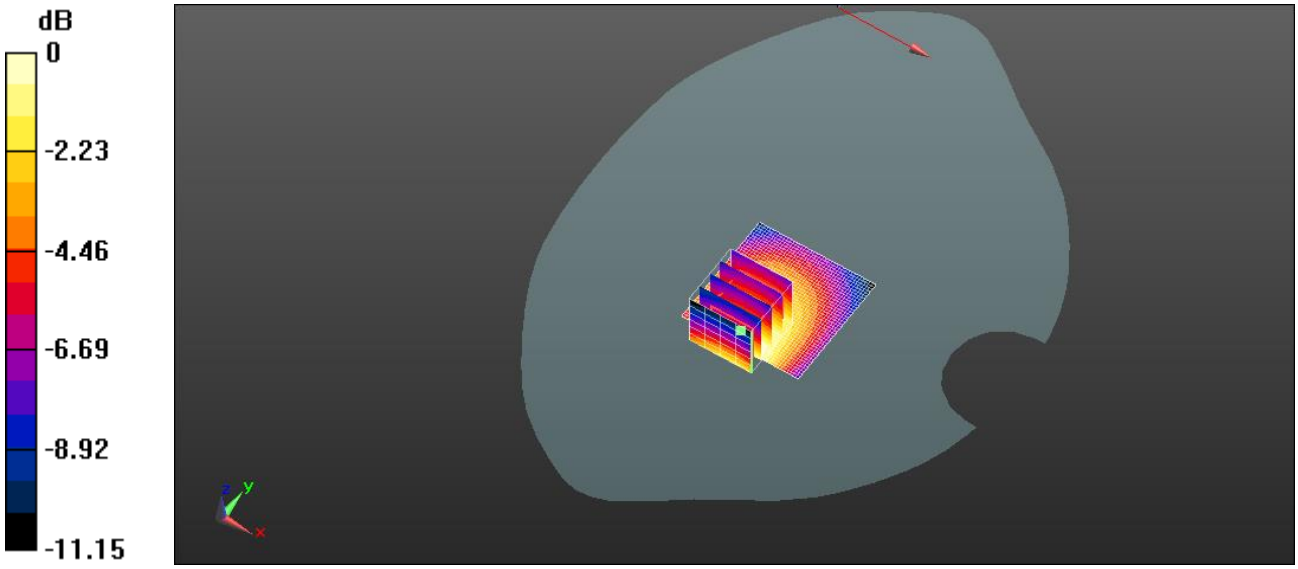
Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.920 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.80 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.18 W/kg
**SAR(1 g) = 0.767 W/kg; SAR(10 g) = 0.509 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.870 W/kg




0 dB = 0.920 W/kg = -0.36 dBW/kg

## 2/12/2020

### System Verification 835MHz Dipole

Date/Time: 2/12/2020 9:25:54 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified**

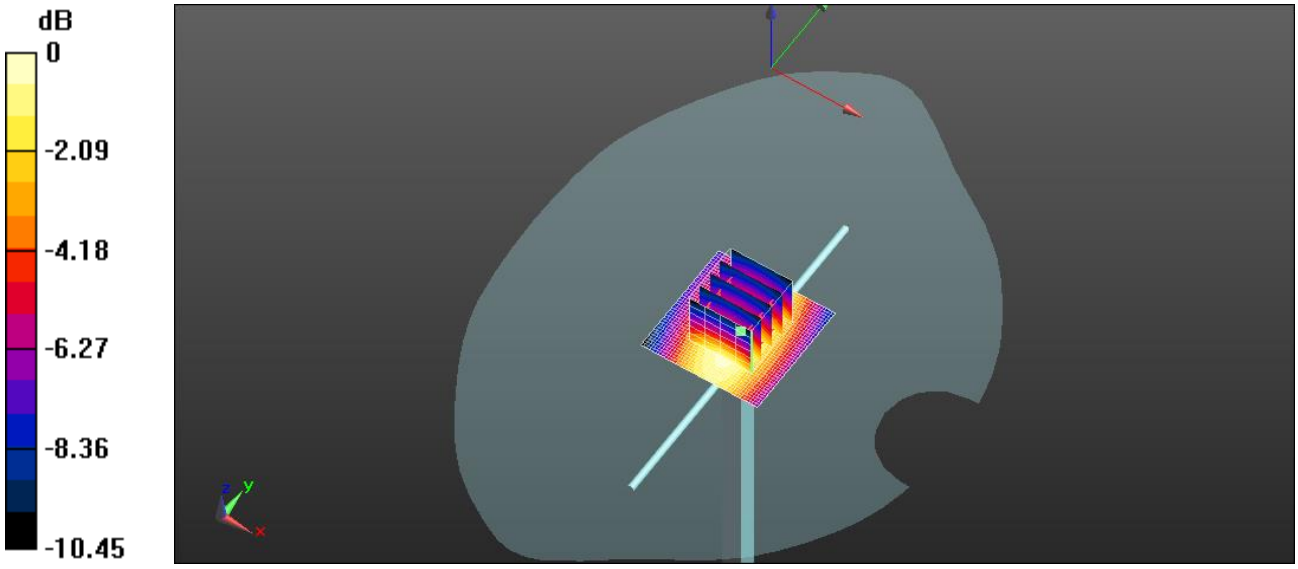
Communication System: UID 0, CW (0); Frequency: 835 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 835 MHz; $\sigma$ = 0.88 S/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 56.78 V/m; Power Drift = -0.18 dB
**Fast SAR: SAR(1 g) = 2.3 W/kg; SAR(10 g) = 1.56 W/kg**
Maximum value of SAR (interpolated) = 2.64 W/kg

**System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 56.78 V/m; Power Drift = -0.18 dB
Peak SAR (extrapolated) = 3.28 W/kg
**SAR(1 g) = 2.21 W/kg; SAR(10 g) = 1.45 W/kg**
Maximum value of SAR (measured) = 2.59 W/kg




0 dB = 2.64 W/kg = 4.22 dBW/kg

## LTE 5, Left, No holster

Date/Time: 2/12/2020 9:53:51 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used (interpolated): f = 836.5 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.367; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

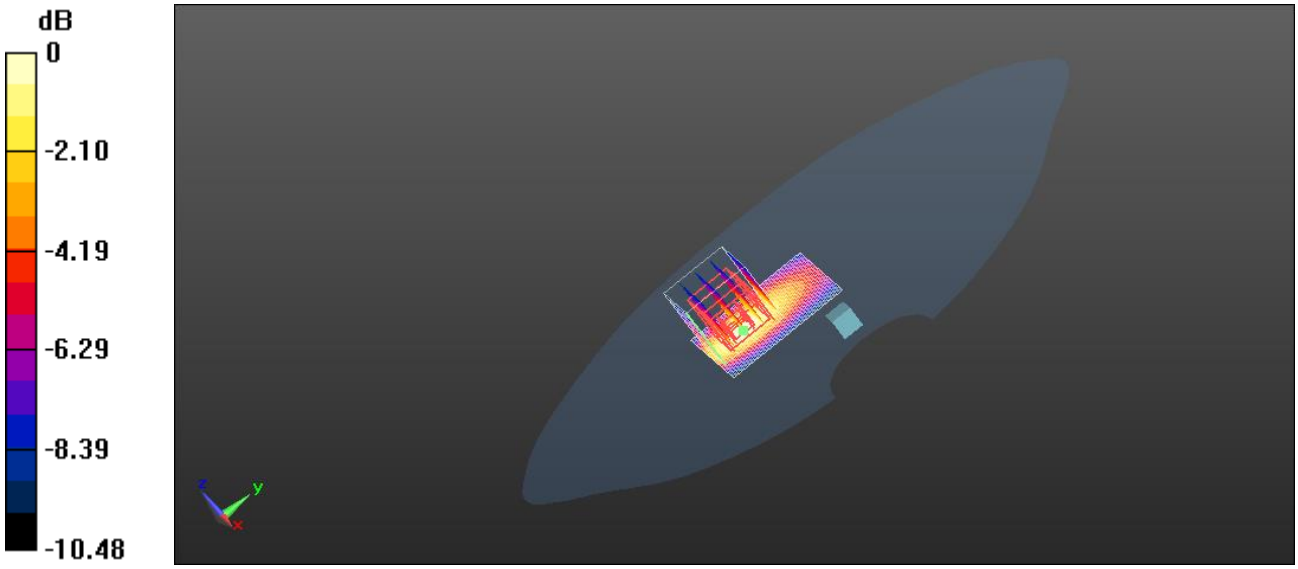
**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.67 V/m; Power Drift = -0.58 dB
**Fast SAR: SAR(1 g) = 0.185 W/kg; SAR(10 g) = 0.117 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.219 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.67 V/m; Power Drift = -0.58 dB
Peak SAR (extrapolated) = 0.294 W/kg
**SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.105 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.216 W/kg




0 dB = 0.219 W/kg = -6.60 dBW/kg

## LTE 5, Right, No holster

Date/Time: 2/12/2020 10:14:21 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used (interpolated): f = 836.5 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.367; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

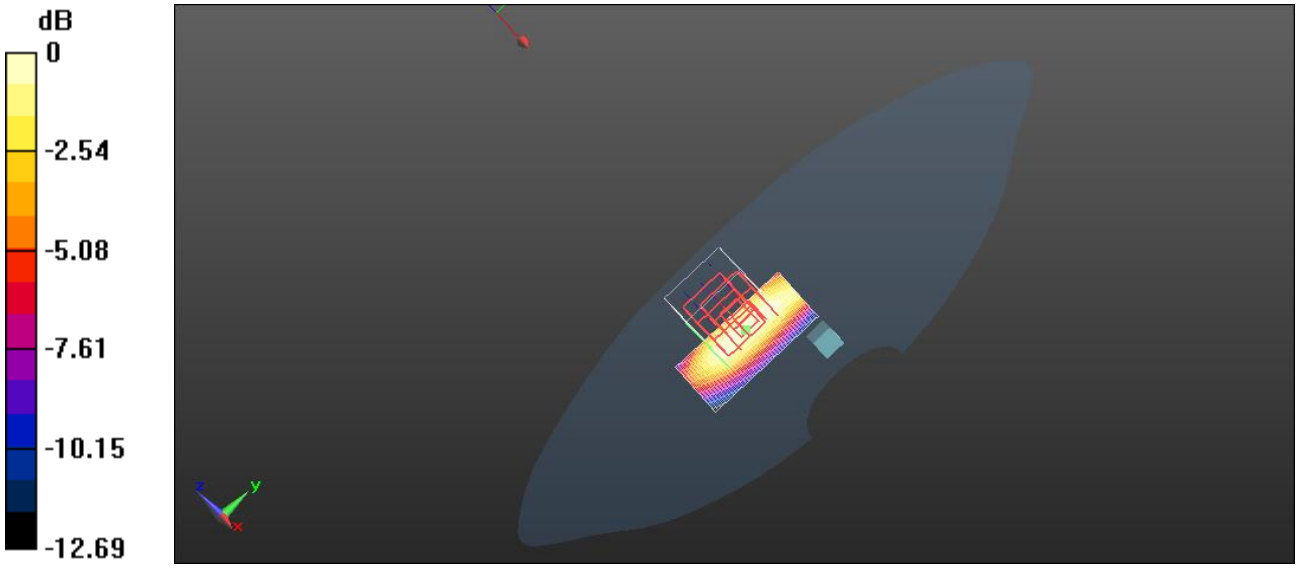
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.33 V/m; Power Drift = -0.14 dB
**Fast SAR: SAR(1 g) = 0.322 W/kg; SAR(10 g) = 0.221 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.369 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.33 V/m; Power Drift = -0.14 dB
Peak SAR (extrapolated) = 0.453 W/kg
**SAR(1 g) = 0.312 W/kg; SAR(10 g) = 0.211 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.360 W/kg




0 dB = 0.369 W/kg = -4.33 dBW/kg

## GPRS 850, 4 TS, Front, No holster

Date/Time: 2/12/2020 5:17:24 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

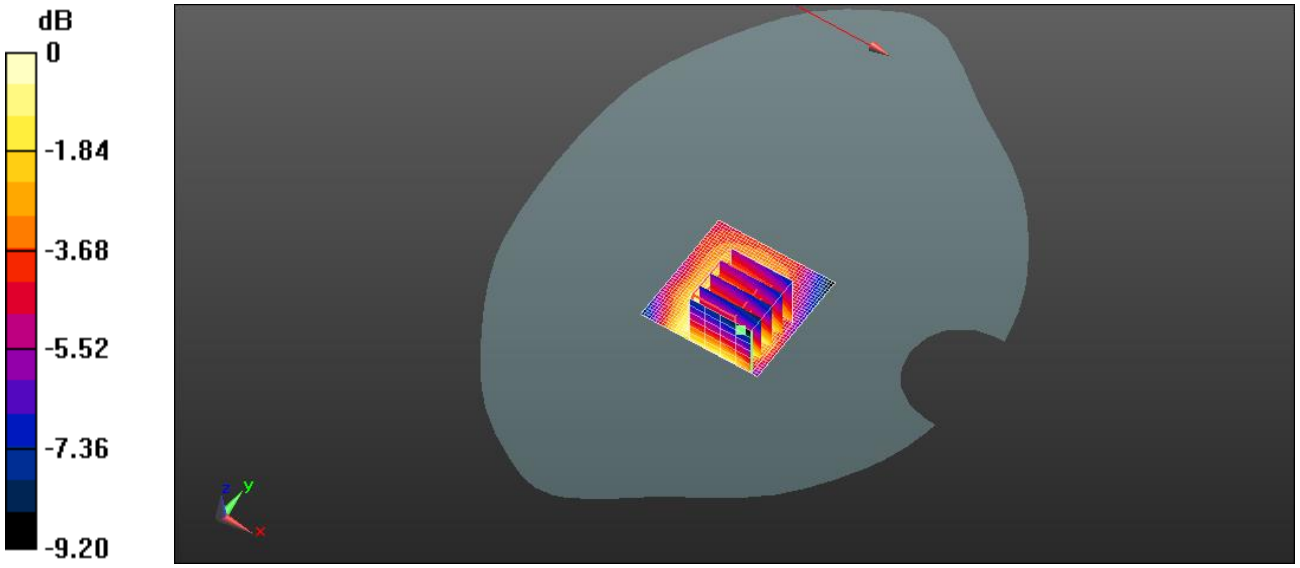
DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.97 V/m; Power Drift = 0.02 dB
**Fast SAR: SAR(1 g) = 0.336 W/kg; SAR(10 g) = 0.230 W/kg**
Maximum value of SAR (interpolated) = 0.392 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.97 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.489 W/kg
**SAR(1 g) = 0.318 W/kg; SAR(10 g) = 0.208 W/kg**

Maximum value of SAR (measured) = 0.363 W/kg




0 dB = 0.392 W/kg = -4.06 dBW/kg

## GPRS 850, 4 TS, Back, No holster

Date/Time: 2/12/2020 5:30:46 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

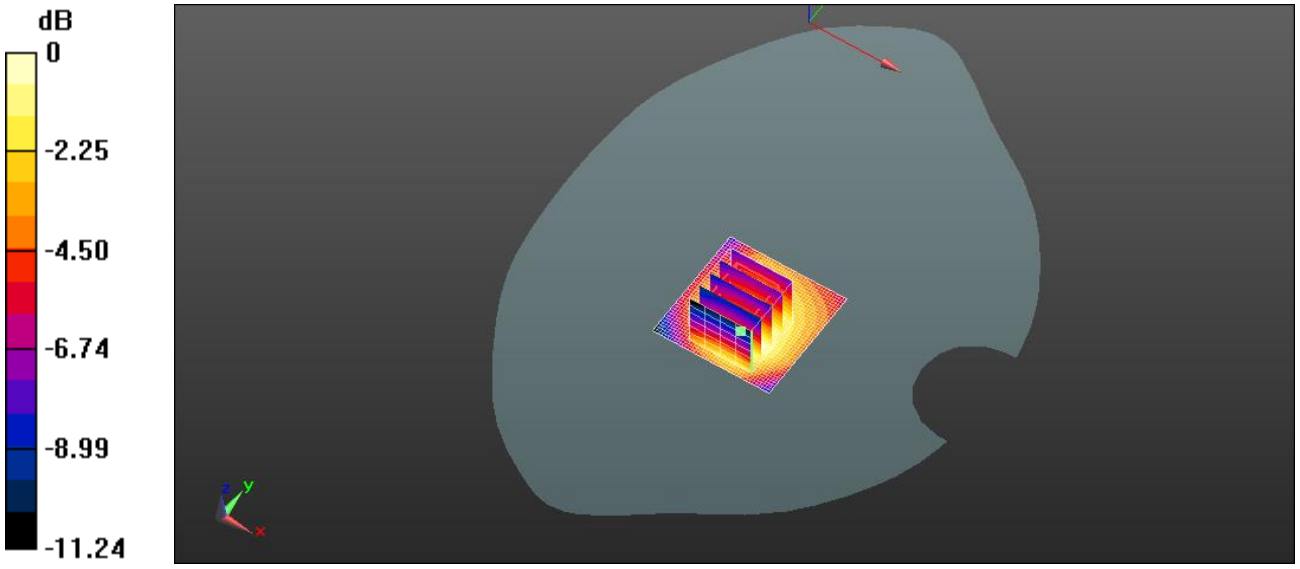
DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 19.13 V/m; Power Drift = 0.01 dB
**Fast SAR: SAR(1 g) = 0.429 W/kg; SAR(10 g) = 0.298 W/kg**
Maximum value of SAR (interpolated) = 0.494 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 19.13 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 0.612 W/kg
**SAR(1 g) = 0.411 W/kg; SAR(10 g) = 0.273 W/kg**

Maximum value of SAR (measured) = 0.465 W/kg




0 dB = 0.494 W/kg = -3.06 dBW/kg

## 2/13/2020

## System Verification 835MHz Dipole

Date/Time: 2/13/2020 7:45:11 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified**

Communication System: UID 0, CW (0); Frequency: 835 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 835 MHz; $\sigma$ = 0.88 S/m; $\varepsilon_r$ = 39.4; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

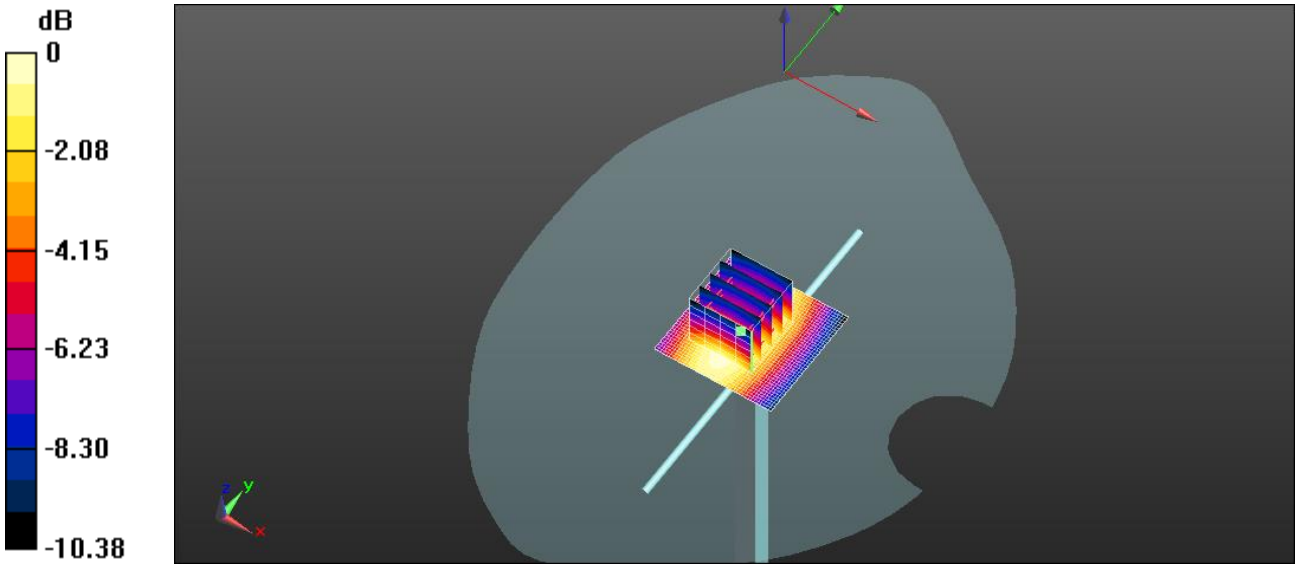
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1265; Calibrated: 5/11/2016
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

### System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 59.33 V/m; Power Drift = -0.62 dB
**Fast SAR: SAR(1 g) = 2.32 W/kg; SAR(10 g) = 1.57 W/kg**
Maximum value of SAR (interpolated) = 2.65 W/kg

### System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 59.33 V/m; Power Drift = -0.62 dB
Peak SAR (extrapolated) = 3.31 W/kg
**SAR(1 g) = 2.23 W/kg; SAR(10 g) = 1.47 W/kg**
Maximum value of SAR (measured) = 2.60 W/kg




0 dB = 2.65 W/kg = 4.24 dBW/kg

## GPRS 850, 4 TS, Right, No holster

Date/Time: 2/13/2020 8:32:02 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

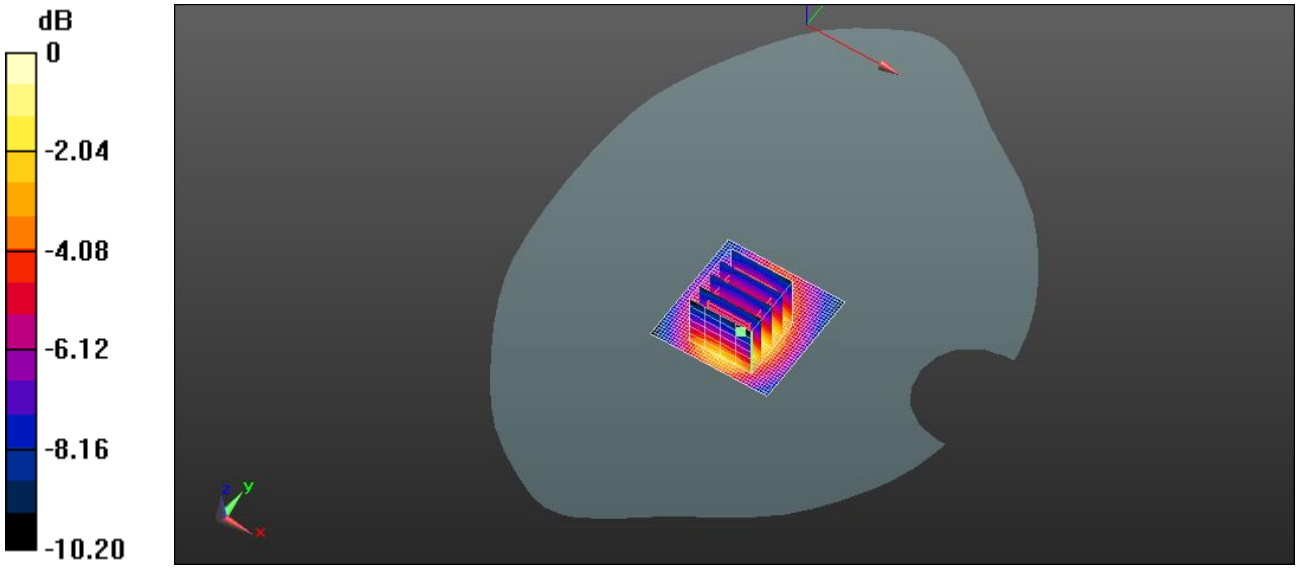
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.742 V/m; Power Drift = 0.16 dB

**Fast SAR: SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.072 W/kg**
Maximum value of SAR (interpolated) = 0.128 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.742 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.170 W/kg
**SAR(1 g) = 0.106 W/kg; SAR(10 g) = 0.064 W/kg**
Maximum value of SAR (measured) = 0.128 W/kg




0 dB = 0.128 W/kg = -8.92 dBW/kg

## GPRS 850, 4 TS, Top, No holster

Date/Time: 2/13/2020 9:02:11 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

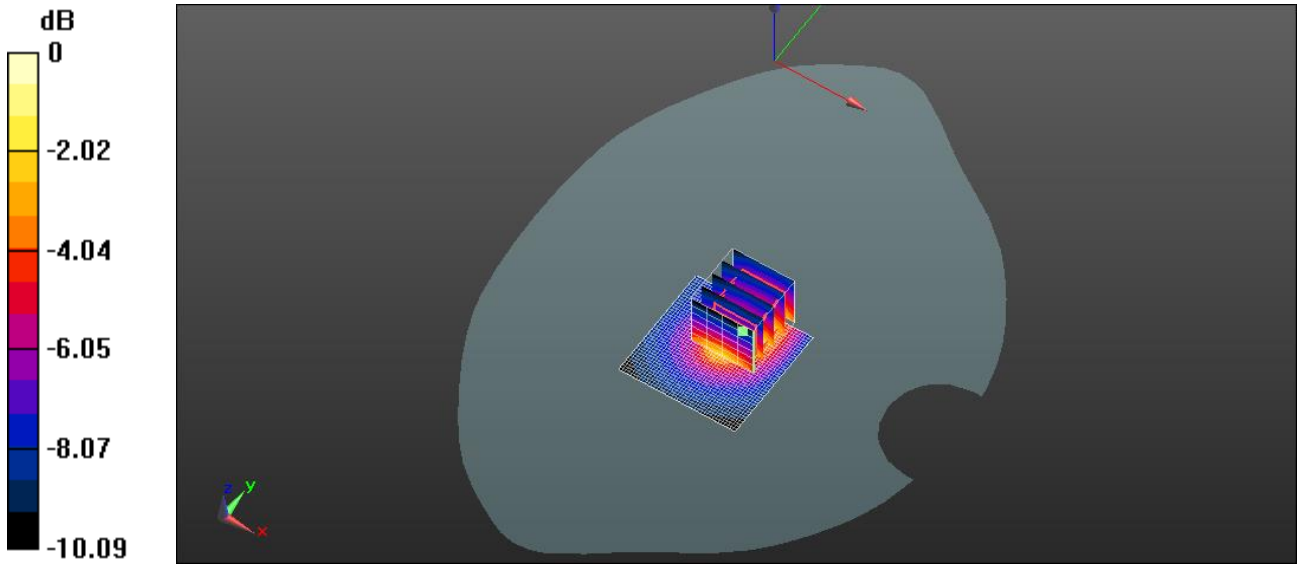
Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 12.49 V/m; Power Drift = -0.31 dB
**Fast SAR: SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.066 W/kg**
Maximum value of SAR (interpolated) = 0.139 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 12.49 V/m; Power Drift = -0.31 dB
Peak SAR (extrapolated) = 0.233 W/kg
**SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.057 W/kg**
Maximum value of SAR (measured) = 0.139 W/kg




0 dB = 0.139 W/kg = -8.56 dBW/kg

## GPRS 850, 4 TS, Left, No holster

Date/Time: 2/13/2020 9:36:54 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 836.6 MHz
Medium: HSL900_Batch 100922-1
Medium parameters used: f = 837 MHz; $\sigma$ = 0.882 S/m; $\varepsilon_r$ = 39.356; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

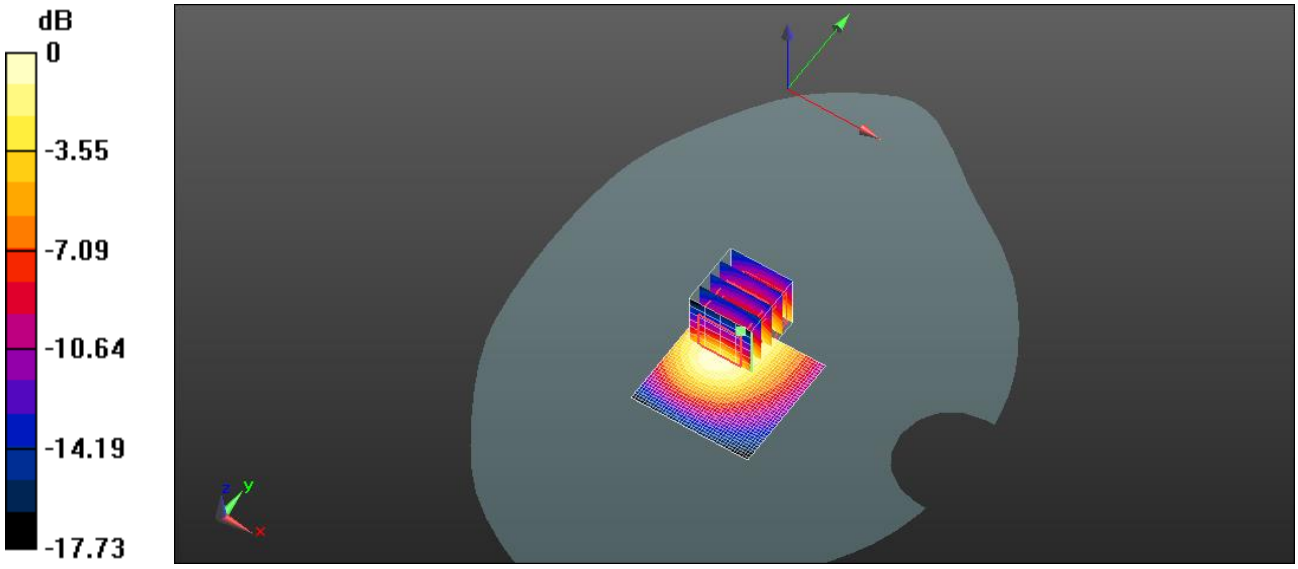
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM; Type: QD 000 P40 CC; Serial: 1592
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.17 V/m; Power Drift = -0.03 dB
**Fast SAR: SAR(1 g) = 0.213 W/kg; SAR(10 g) = 0.142 W/kg**

Maximum value of SAR (interpolated) = 0.244 W/kg

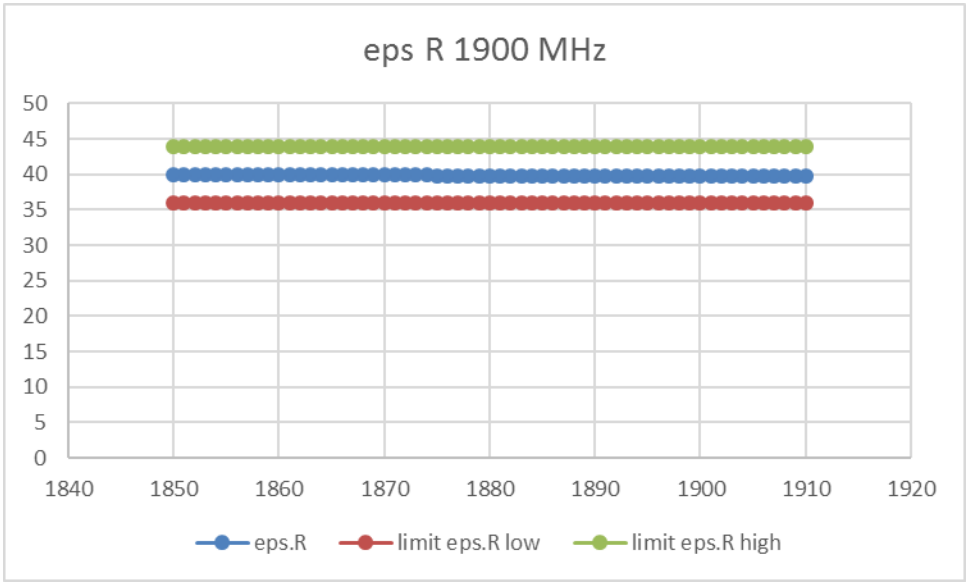
**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 15.17 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 0.353 W/kg
**SAR(1 g) = 0.224 W/kg; SAR(10 g) = 0.145 W/kg**

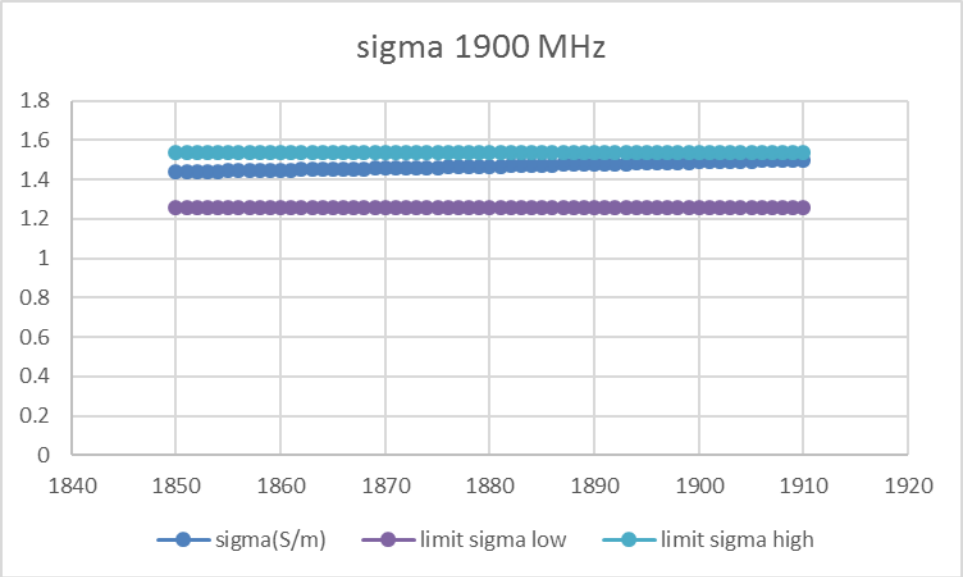
Maximum value of SAR (measured) = 0.266 W/kg




0 dB = 0.244 W/kg = -6.13 dBW/kg

## Liquid qualification 1900 MHz






## System Verification 1900MHz Dipole

Date/Time: 2/13/2020 2:07:05 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1900 MHz - D1900V2 - SN5d135_April 2016; Type: D1900V2; Serial: D1900V2 - SN:5d135**

Communication System: UID 0, CW (0); Frequency: 1900 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.489 S/m; $\varepsilon_r$ = 39.739; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

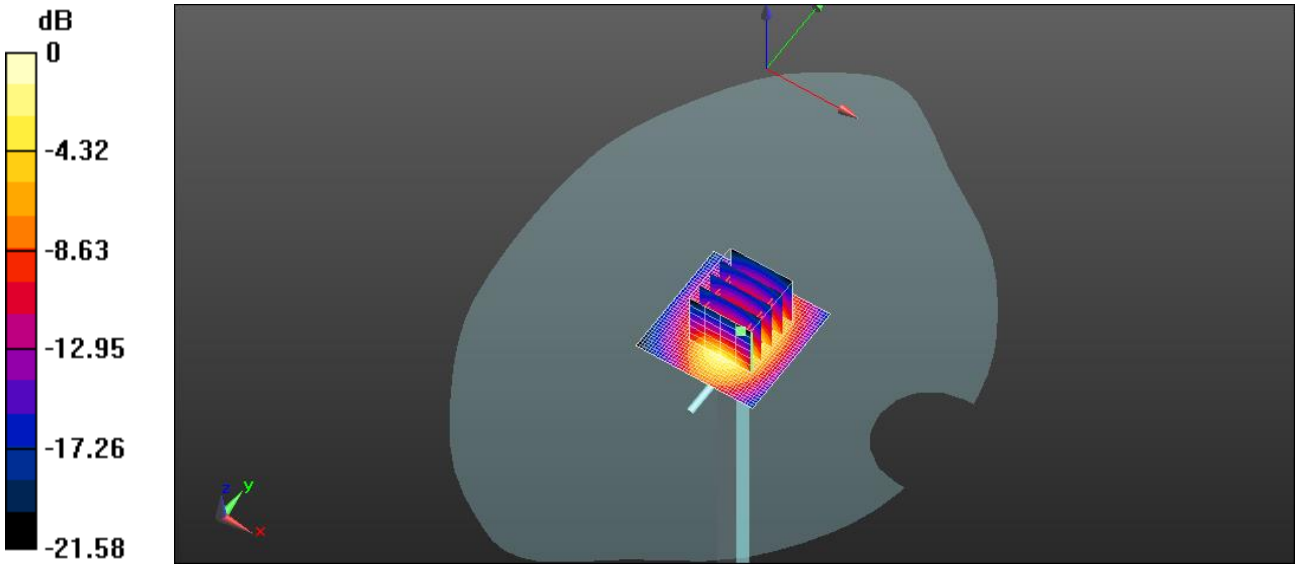
- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 92.33 V/m; Power Drift = 0.06 dB
**Fast SAR: SAR(1 g) = 9.92 W/kg; SAR(10 g) = 5.14 W/kg**
Maximum value of SAR (interpolated) = 12.5 W/kg

## System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.33 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 18.1 W/kg
**SAR(1 g) = 9.99 W/kg; SAR(10 g) = 5.19 W/kg**
Maximum value of SAR (measured) = 12.7 W/kg




0 dB = 12.5 W/kg = 10.96 dBW/kg

## UMTS II, Front, No holster

Date/Time: 2/13/2020 3:17:27 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.466 S/m; $\varepsilon_r$ = 39.836; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

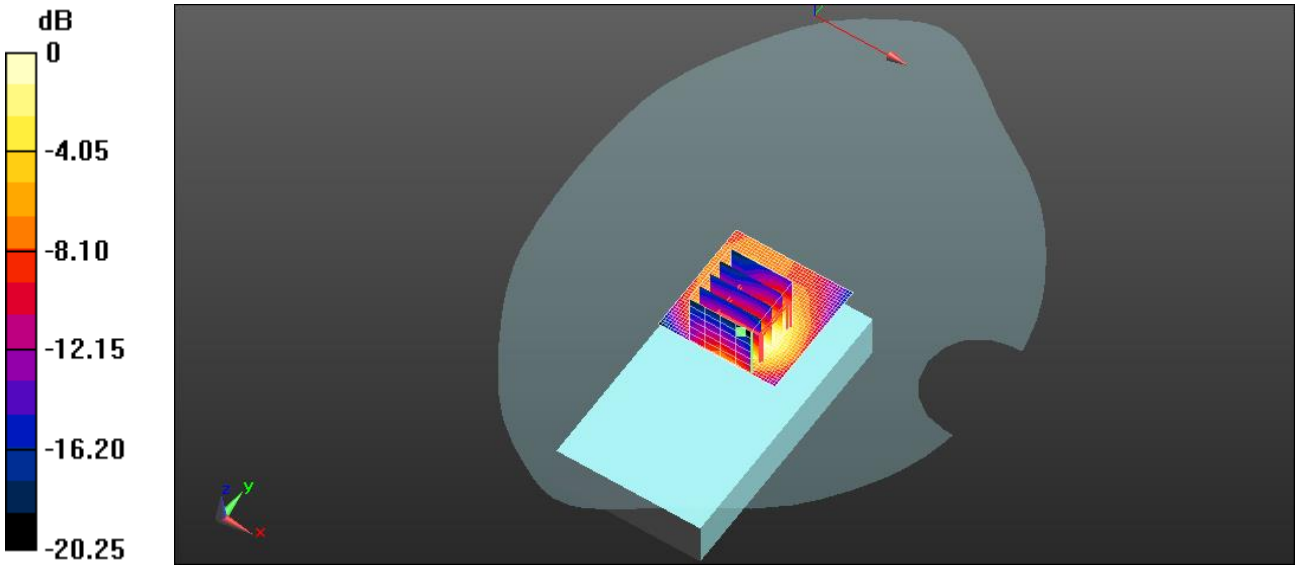
## System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 20.10 V/m; Power Drift = -0.11 dB
**Fast SAR: SAR(1 g) = 2.64 W/kg; SAR(10 g) = 1.32 W/kg**
Maximum value of SAR (interpolated) = 3.35 W/kg

## System Performance Check at Frequencies above 1 GHz/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 20.10 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 4.71 W/kg
**SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.21 W/kg**

Maximum value of SAR (measured) = 3.05 W/kg




0 dB = 3.35 W/kg = 5.24 dBW/kg

## 2/18/2020

## System Verification 1900MHz Dipole

Date/Time: 2/18/2020 8:12:05 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1900 MHz - D1900V2 - SN5d135_April 2016; Type: D1900V2; Serial: D1900V2 - SN:5d135**

Communication System: UID 10000, CW; Frequency: 1900 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.446 S/m; $\varepsilon_r$ = 39.422; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments: ;

DASY Configuration:

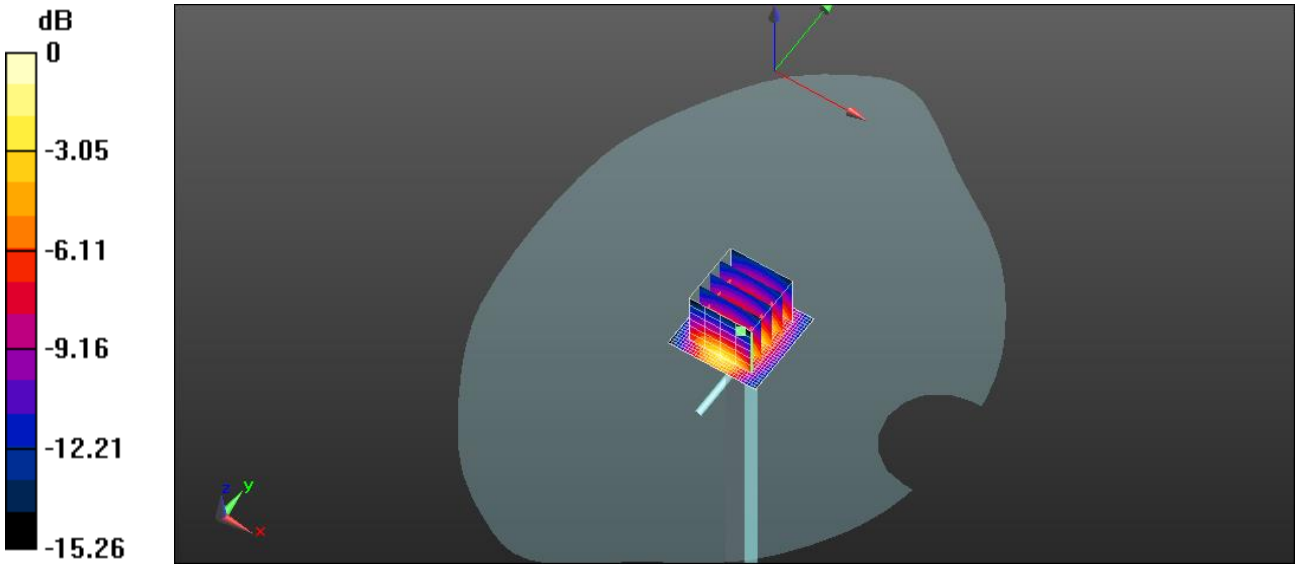
- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 94.40 V/m; Power Drift = 0.05 dB
**Fast SAR: SAR(1 g) = 10.7 W/kg; SAR(10 g) = 5.3 W/kg**
Maximum value of SAR (interpolated) = 13.9 W/kg

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 94.40 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 17.2 W/kg
**SAR(1 g) = 9.42 W/kg; SAR(10 g) = 4.89 W/kg**
Maximum value of SAR (measured) = 12.0 W/kg




0 dB = 13.9 W/kg = 11.43 dBW/kg

## LTE 2, Front, No holster

Date/Time: 2/18/2020 8:34:27 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

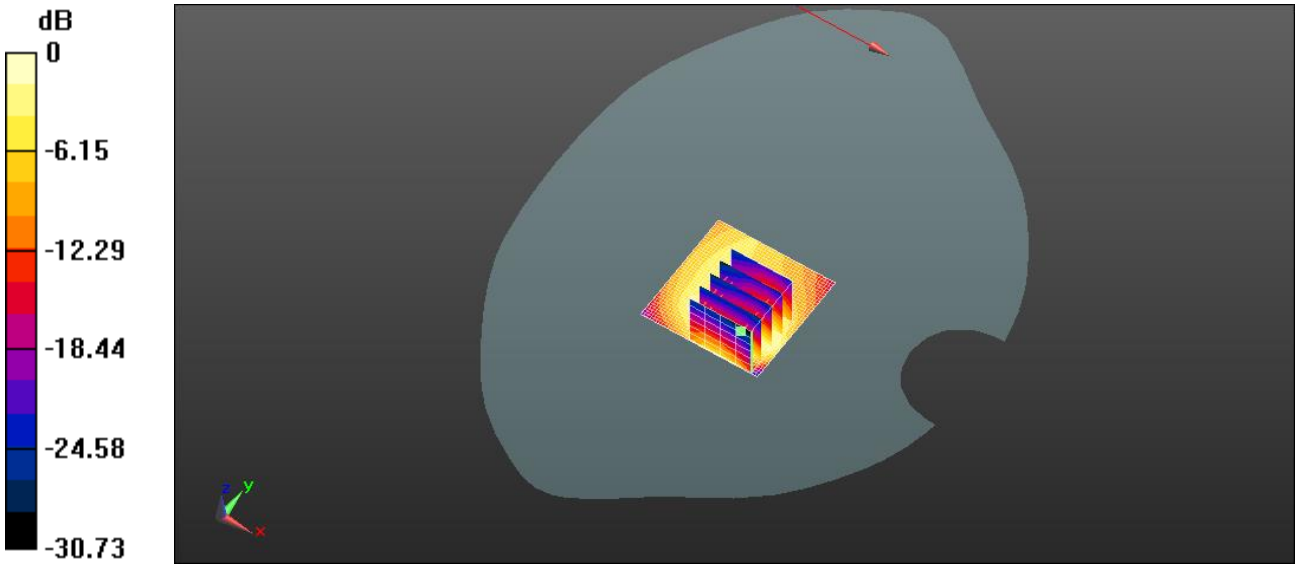
- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid:

dx=1.500 mm, dy=1.500 mm
Reference Value = 17.76 V/m; Power Drift = 0.50 dB
**Fast SAR: SAR(1 g) = 1.82 W/kg; SAR(10 g) = 0.932 W/kg**
Maximum value of SAR (interpolated) = 2.28 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.76 V/m; Power Drift = 0.50 dB
Peak SAR (extrapolated) = 3.15 W/kg
**SAR(1 g) = 1.48 W/kg; SAR(10 g) = 0.746 W/kg**
Maximum value of SAR (measured) = 1.82 W/kg




0 dB = 2.28 W/kg = 3.59 dBW/kg

## LTE 2, Back, No holster

Date/Time: 2/18/2020 8:54:32 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

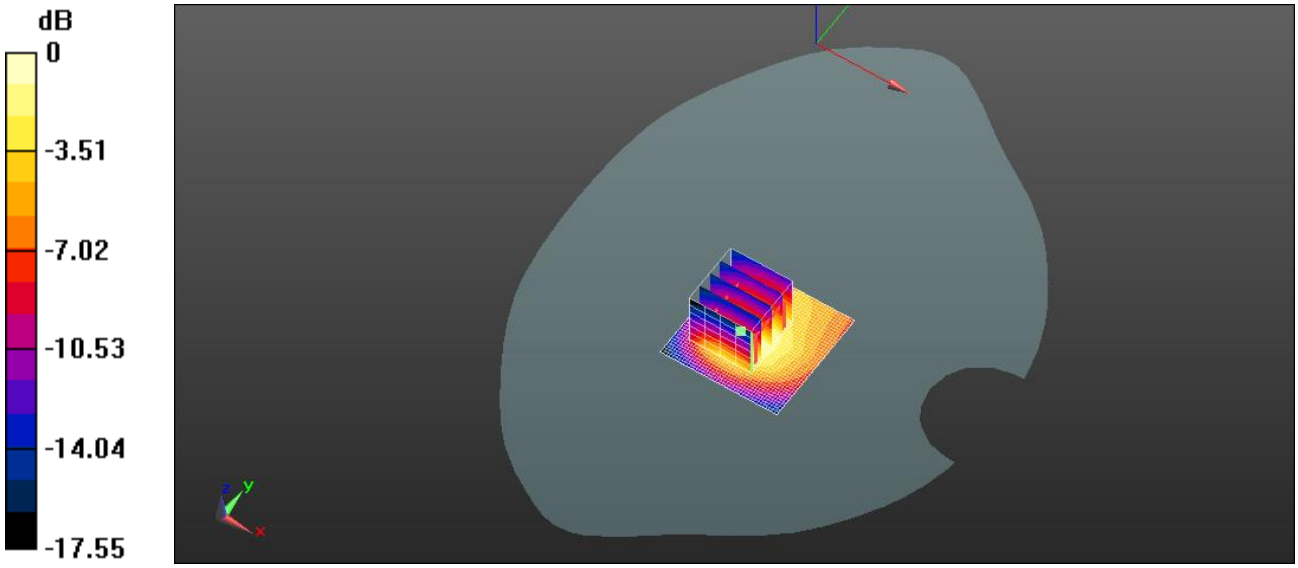
Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 28.80 V/m; Power Drift = 0.02 dB
**Fast SAR: SAR(1 g) = 1.8 W/kg; SAR(10 g) = 1.01 W/kg**
Maximum value of SAR (interpolated) = 2.20 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 28.80 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 3.38 W/kg
**SAR(1 g) = 1.81 W/kg; SAR(10 g) = 0.941 W/kg**
Maximum value of SAR (measured) = 2.25 W/kg




0 dB = 2.20 W/kg = 3.43 dBW/kg

## LTE 2, Left, No holster

Date/Time: 2/18/2020 9:18:04 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

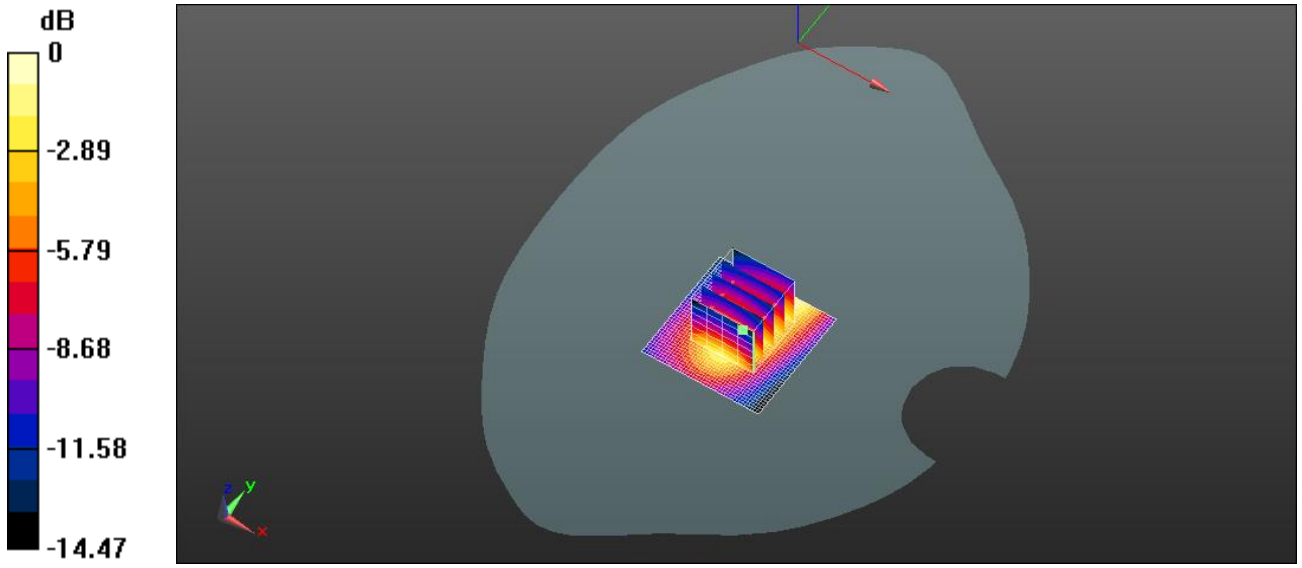
- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.29 V/m; Power Drift = -0.19 dB
**Fast SAR: SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.176 W/kg**
Maximum value of SAR (interpolated) = 0.417 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.29 V/m; Power Drift = -0.19 dB
Peak SAR (extrapolated) = 0.573 W/kg
**SAR(1 g) = 0.329 W/kg; SAR(10 g) = 0.177 W/kg**
Maximum value of SAR (measured) = 0.407 W/kg



0 dB = 0.417 W/kg = -3.80 dBW/kg

## LTE 2, Right, No holster

Date/Time: 2/18/2020 9:34:17 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

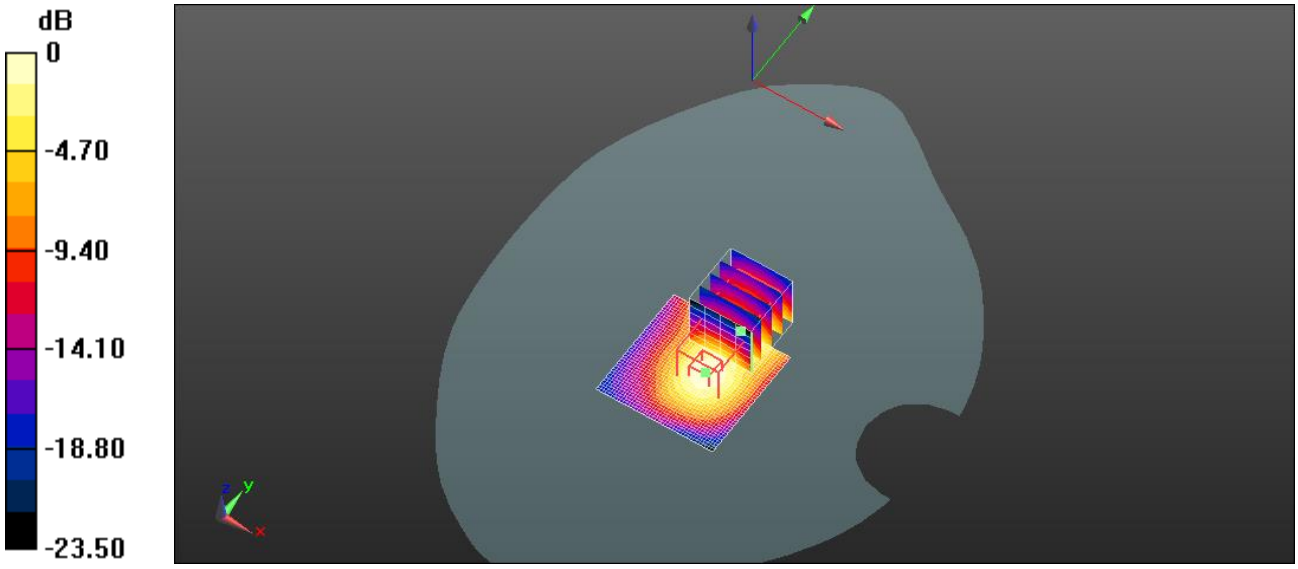
Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 25.18 V/m; Power Drift = -0.16 dB
**Fast SAR: SAR(1 g) = 0.875 W/kg; SAR(10 g) = 0.447 W/kg**
Maximum value of SAR (interpolated) = 1.15 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.18 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 1.69 W/kg
**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.575 W/kg**
Maximum value of SAR (measured) = 1.24 W/kg




0 dB = 1.15 W/kg = 0.62 dBW/kg

## LTE 2, Top, No holster

Date/Time: 2/18/2020 10:21:32 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

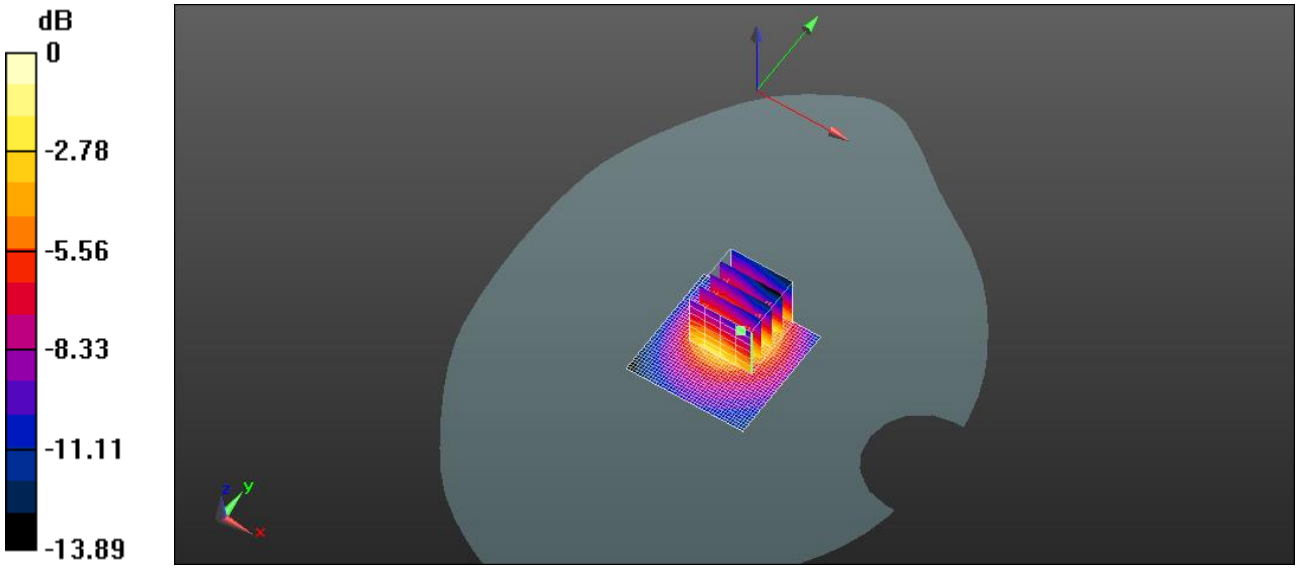
- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.04 V/m; Power Drift = 0.03 dB

**Fast SAR: SAR(1 g) = 0.589 W/kg; SAR(10 g) = 0.293 W/kg**
Maximum value of SAR (interpolated) = 0.784 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.04 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.26 W/kg
**SAR(1 g) = 0.573 W/kg; SAR(10 g) = 0.271 W/kg**
Maximum value of SAR (measured) = 0.778 W/kg




0 dB = 0.784 W/kg = -1.06 dBW/kg

## UMTS II, Left, No holster

Date/Time: 2/18/2020 11:10:44 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

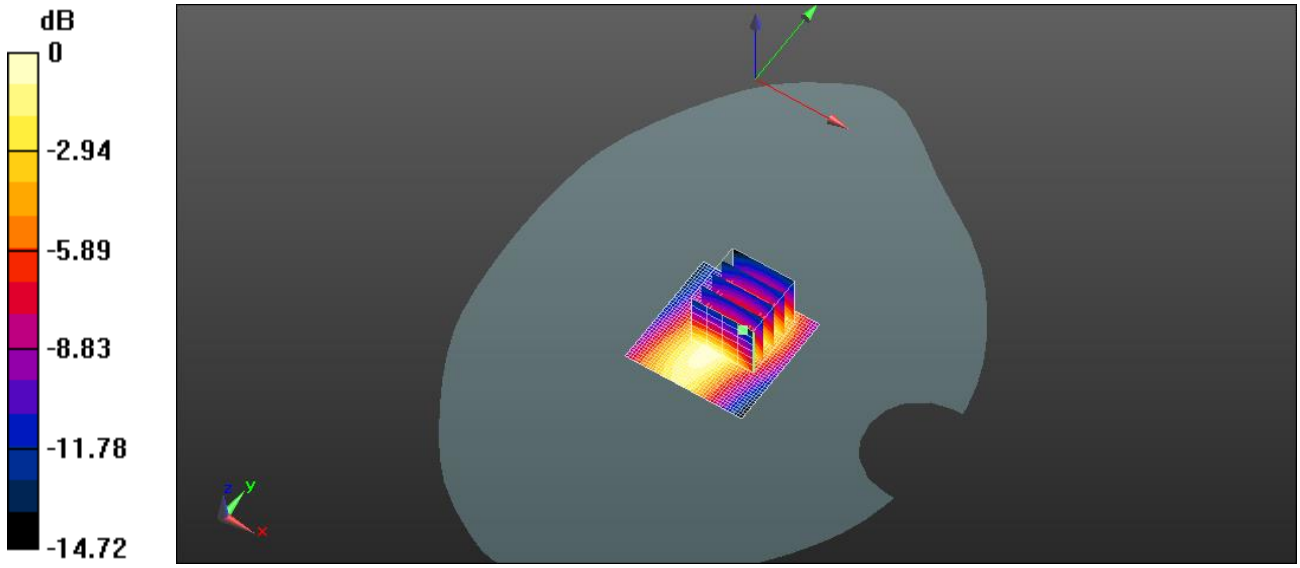
- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 21.45 V/m; Power Drift = -0.22 dB
**Fast SAR: SAR(1 g) = 0.527 W/kg; SAR(10 g) = 0.293 W/kg**
Maximum value of SAR (interpolated) = 0.652 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 21.45 V/m; Power Drift = -0.22 dB
Peak SAR (extrapolated) = 0.876 W/kg
**SAR(1 g) = 0.521 W/kg; SAR(10 g) = 0.290 W/kg**
Maximum value of SAR (measured) = 0.645 W/kg




0 dB = 0.652 W/kg = -1.86 dBW/kg

## 2/19/2020

### System Verification 1900MHz Dipole

Date/Time: 2/19/2020 7:49:01 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1900 MHz - D1900V2 - SN5d135_April 2016; Type: D1900V2; Serial: D1900V2 - SN:5d135**

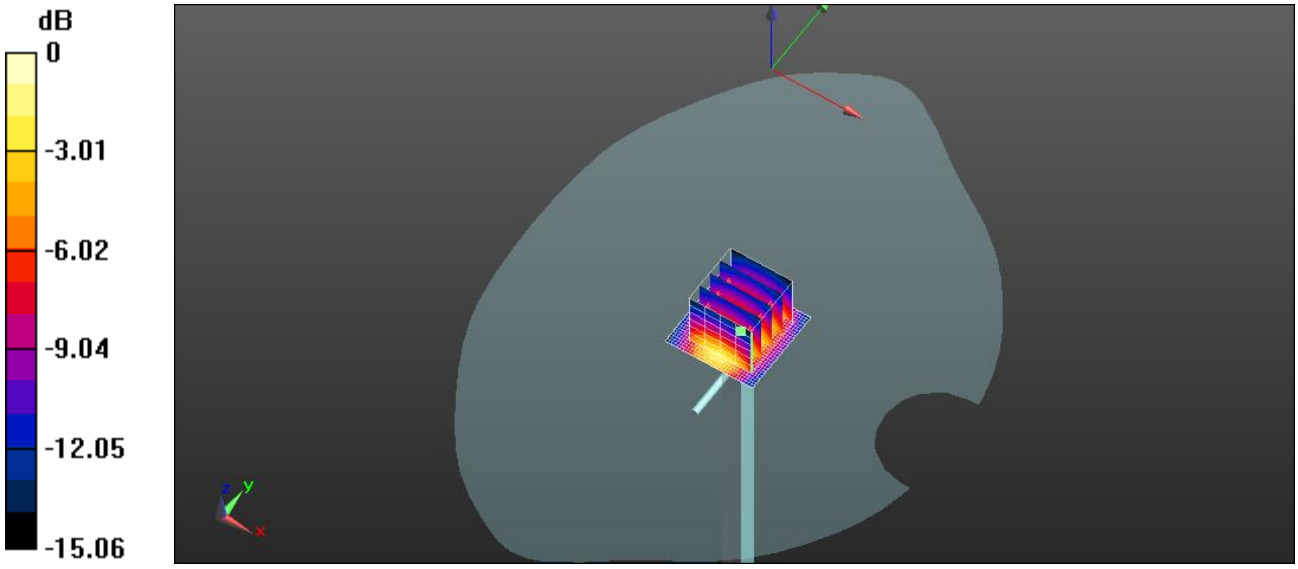
Communication System: UID 10000, CW; Frequency: 1900 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.446 S/m; $\varepsilon_r$ = 39.422; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments: ;

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 96.25 V/m; Power Drift = -0.08 dB
**Fast SAR: SAR(1 g) = 11.1 W/kg; SAR(10 g) = 5.51 W/kg**
Maximum value of SAR (interpolated) = 14.3 W/kg

**System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 96.25 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 17.8 W/kg
**SAR(1 g) = 9.74 W/kg; SAR(10 g) = 5.03 W/kg**
Maximum value of SAR (measured) = 12.4 W/kg




0 dB = 14.3 W/kg = 11.57 dBW/kg

## GPRS 1900, 4 TS, Front, No holster

Date/Time: 2/19/2020 8:09:29 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

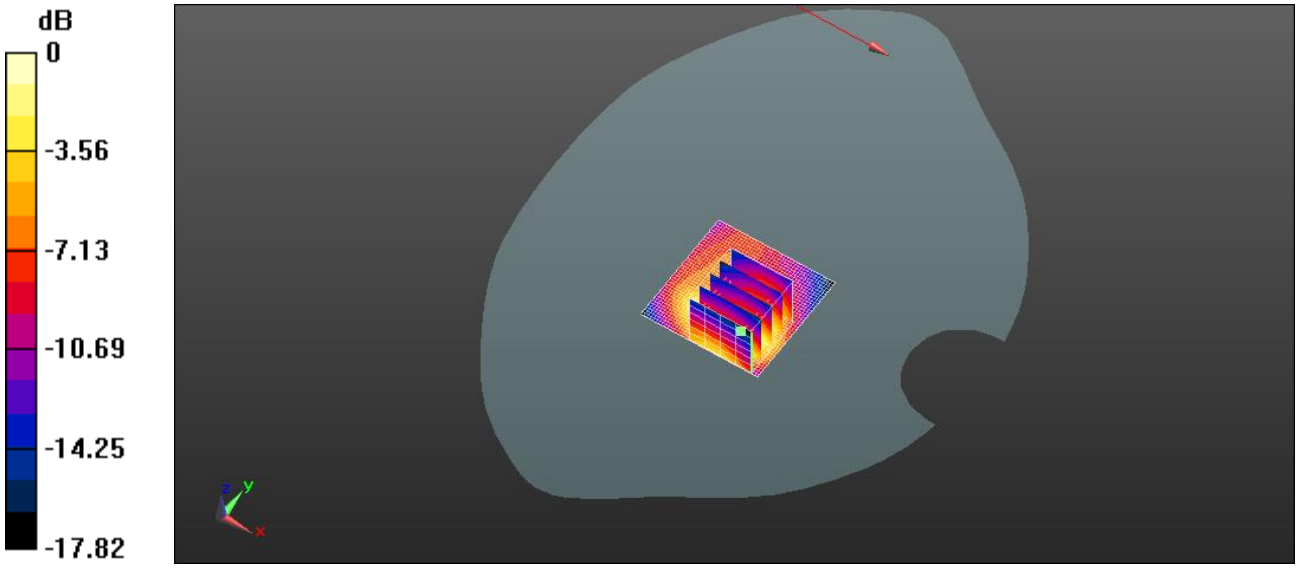
Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.19 V/m; Power Drift = 0.07 dB
**Fast SAR: SAR(1 g) = 1.34 W/kg; SAR(10 g) = 0.690 W/kg**
Maximum value of SAR (interpolated) = 1.70 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 13.19 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.22 W/kg
**SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.579 W/kg**
Maximum value of SAR (measured) = 1.34 W/kg




0 dB = 1.70 W/kg = 2.31 dBW/kg

## GPRS 1900, 4 TS, Back, No holster

Date/Time: 2/19/2020 8:25:08 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

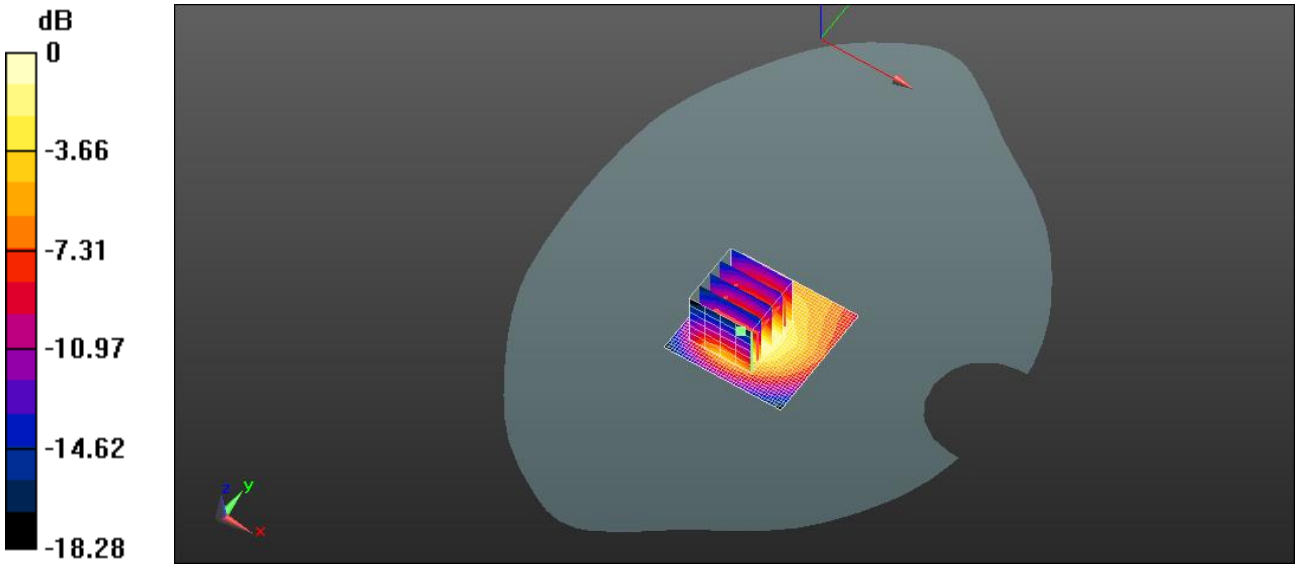
Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 23.70 V/m; Power Drift = -0.02 dB
**Fast SAR: SAR(1 g) = 1.5 W/kg; SAR(10 g) = 0.839 W/kg**
Maximum value of SAR (interpolated) = 1.82 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.70 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 2.70 W/kg
**SAR(1 g) = 1.5 W/kg; SAR(10 g) = 0.786 W/kg**
Maximum value of SAR (measured) = 1.89 W/kg




0 dB = 1.82 W/kg = 2.61 dBW/kg

## GPRS 1900, 4 TS, Left, No holster

Date/Time: 2/19/2020 8:59:26 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

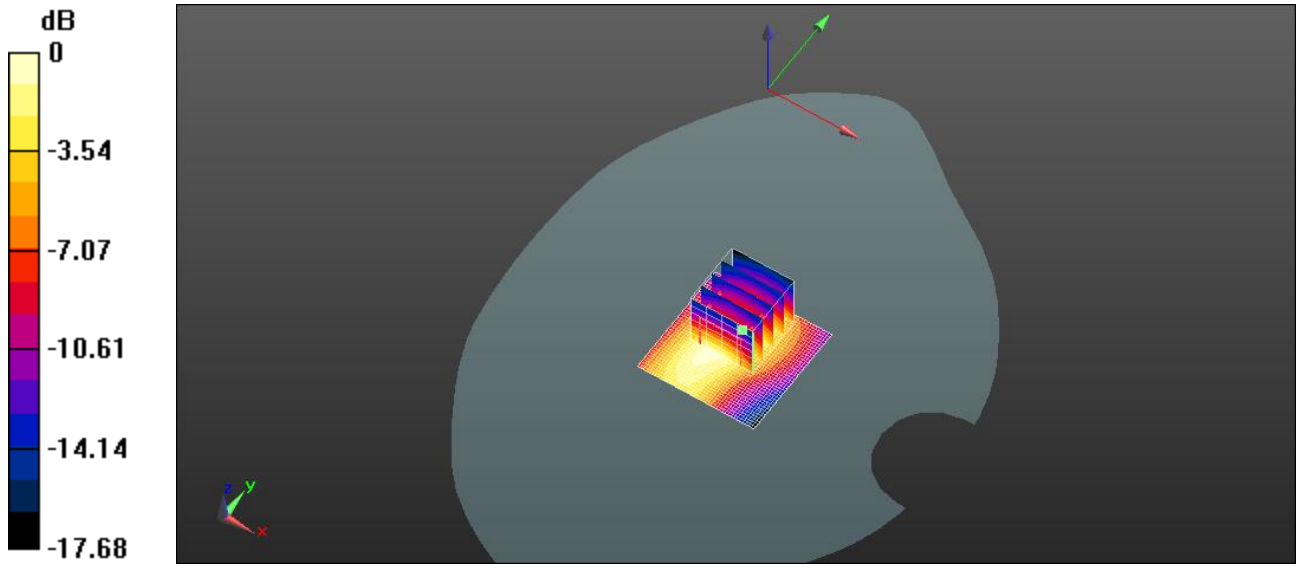
- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 14.59 V/m; Power Drift = 0.36 dB
**Fast SAR: SAR(1 g) = 0.270 W/kg; SAR(10 g) = 0.151 W/kg**
Maximum value of SAR (interpolated) = 0.335 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 14.59 V/m; Power Drift = 0.36 dB
Peak SAR (extrapolated) = 0.453 W/kg
**SAR(1 g) = 0.275 W/kg; SAR(10 g) = 0.156 W/kg**
Maximum value of SAR (measured) = 0.334 W/kg



0 dB = 0.335 W/kg = -4.75 dBW/kg

## GPRS 1900, 4 TS, Right, No holster

Date/Time: 2/19/2020 9:27:43 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

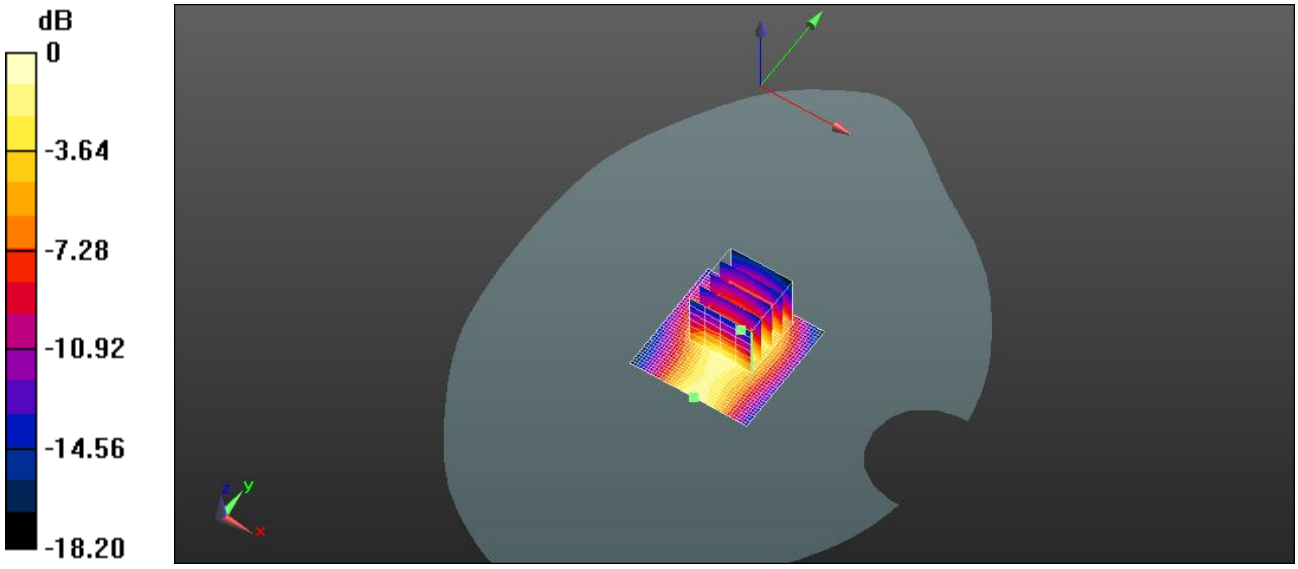
Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 24.43 V/m; Power Drift = -0.11 dB
**Fast SAR: SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.395 W/kg**
Maximum value of SAR (interpolated) = 0.911 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.43 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.16 W/kg
**SAR(1 g) = 0.722 W/kg; SAR(10 g) = 0.411 W/kg**
Maximum value of SAR (measured) = 0.875 W/kg




0 dB = 0.911 W/kg = -0.41 dBW/kg

## GPRS 1900, 4 TS, Top, No holster

Date/Time: 2/19/2020 10:15:07 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10028 - DAC, GPRS-FDD (TDMA, GMSK, TN 0-1-2-3); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.424 S/m; $\varepsilon_r$ = 39.524; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

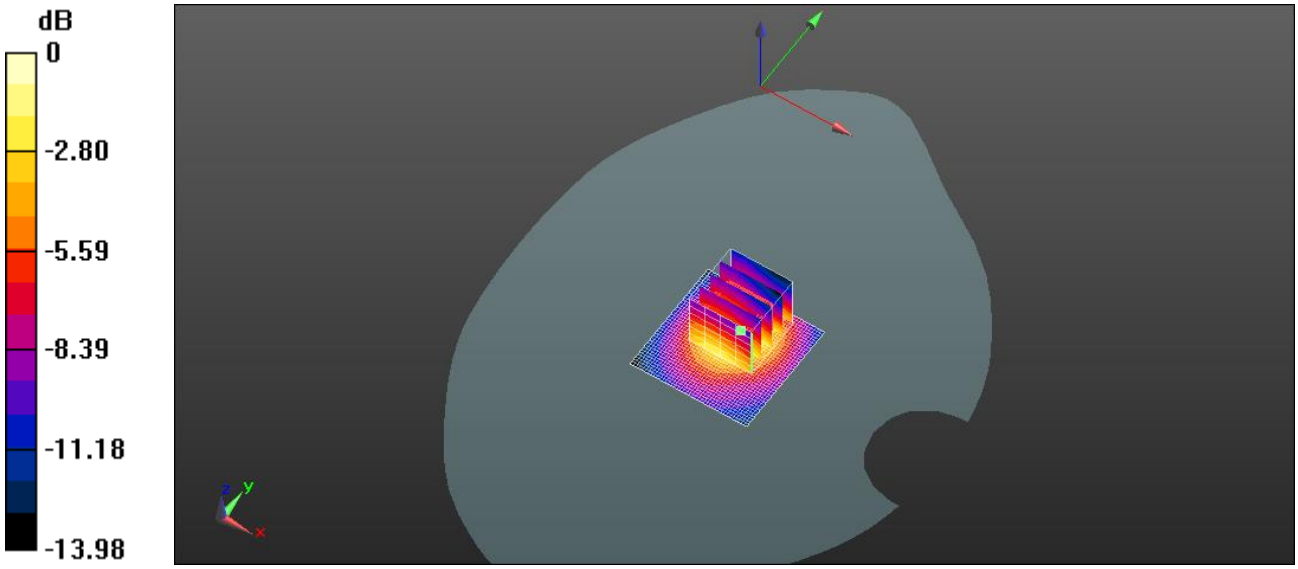
- Probe: ES3DV3 - SN3323; ConvF(5.18, 5.18, 5.18); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.79 V/m; Power Drift = 0.09 dB

**Fast SAR: SAR(1 g) = 0.431 W/kg; SAR(10 g) = 0.222 W/kg**
Maximum value of SAR (interpolated) = 0.548 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

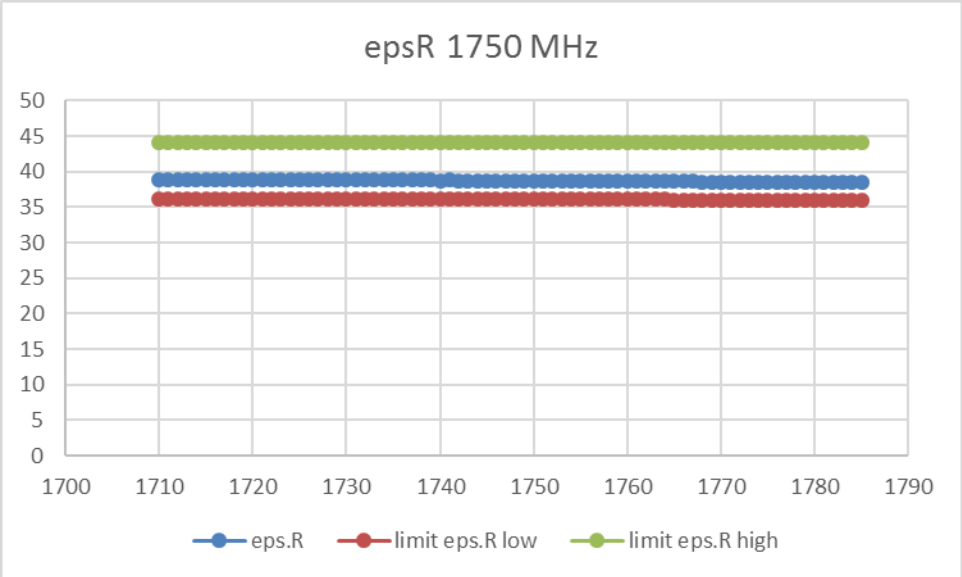
Reference Value = 17.79 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 0.883 W/kg
**SAR(1 g) = 0.422 W/kg; SAR(10 g) = 0.204 W/kg**
Maximum value of SAR (measured) = 0.561 W/kg

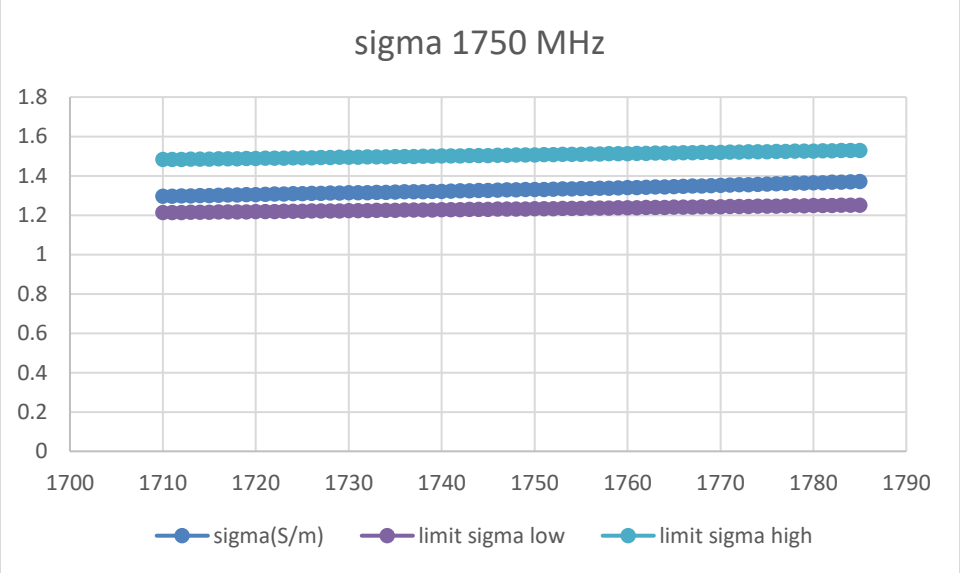



0 dB = 0.548 W/kg = -2.61 dBW/kg

## 2/20/2020

### Liquid qualification 1750MHz




### System Verification 1750MHz Dipole

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1750 MHz - D1750V2 - SN1045_April 2016; Type: D1750V2; Serial: D1750V2 - SN:1045**

Communication System: UID 0, CW (0); Frequency: 1750 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.331 S/m; $\varepsilon_r$ = 38.72; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments: ;

DASY Configuration:

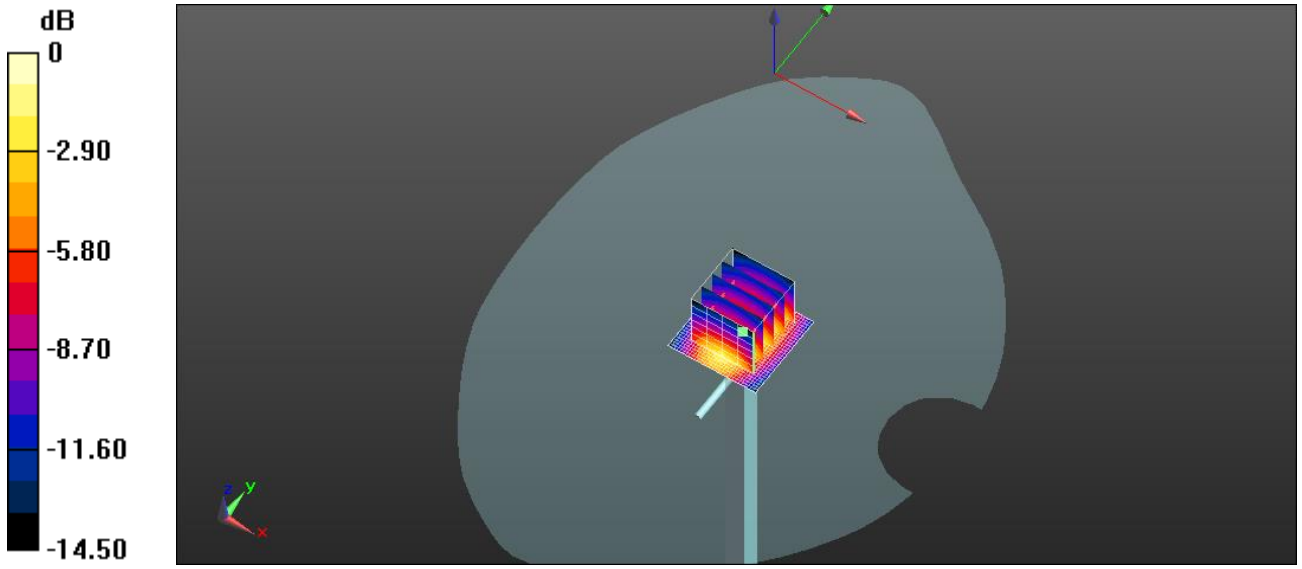
- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 94.26 V/m; Power Drift = -0.07 dB
**Fast SAR: SAR(1 g) = 9.98 W/kg; SAR(10 g) = 5.15 W/kg**
Maximum value of SAR (interpolated) = 12.7 W/kg

## System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.26 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 15.5 W/kg
**SAR(1 g) = 8.81 W/kg; SAR(10 g) = 4.75 W/kg**
Maximum value of SAR (measured) = 11.0 W/kg



0 dB = 12.7 W/kg = 11.05 dBW/kg

## UMTS IV, Back, No holster

Date/Time: 2/20/2020 2:49:45 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

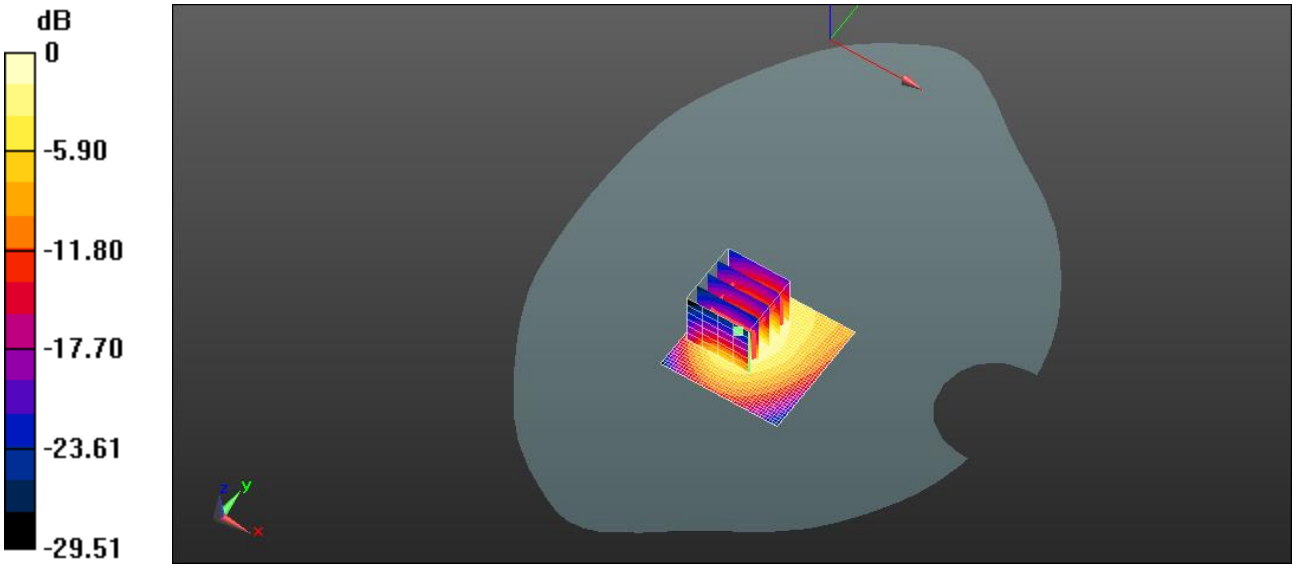
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1733 MHz; $\sigma$ = 1.317 S/m; $\varepsilon_r$ = 38.816; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 10.80 V/m; Power Drift = 0.20 dB
**Fast SAR: SAR(1 g) = 0.352 W/kg; SAR(10 g) = 0.189 W/kg**
Maximum value of SAR (interpolated) = 0.455 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.80 V/m; Power Drift = 0.20 dB
Peak SAR (extrapolated) = 0.611 W/kg
**SAR(1 g) = 0.345 W/kg; SAR(10 g) = 0.188 W/kg**
Maximum value of SAR (measured) = 0.425 W/kg




0 dB = 0.455 W/kg = -3.42 dBW/kg

## 2/21/2020

## System Verification 1750MHz Dipole

Date/Time: 2/21/2020 7:59:20 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1750 MHz - D1750V2 - SN1045_April 2016; Type: D1750V2; Serial: D1750V2 - SN:1045**

Communication System: UID 0, CW (0); Frequency: 1750 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.331 S/m; $\varepsilon_r$ = 38.72; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments: ;

DASY Configuration:

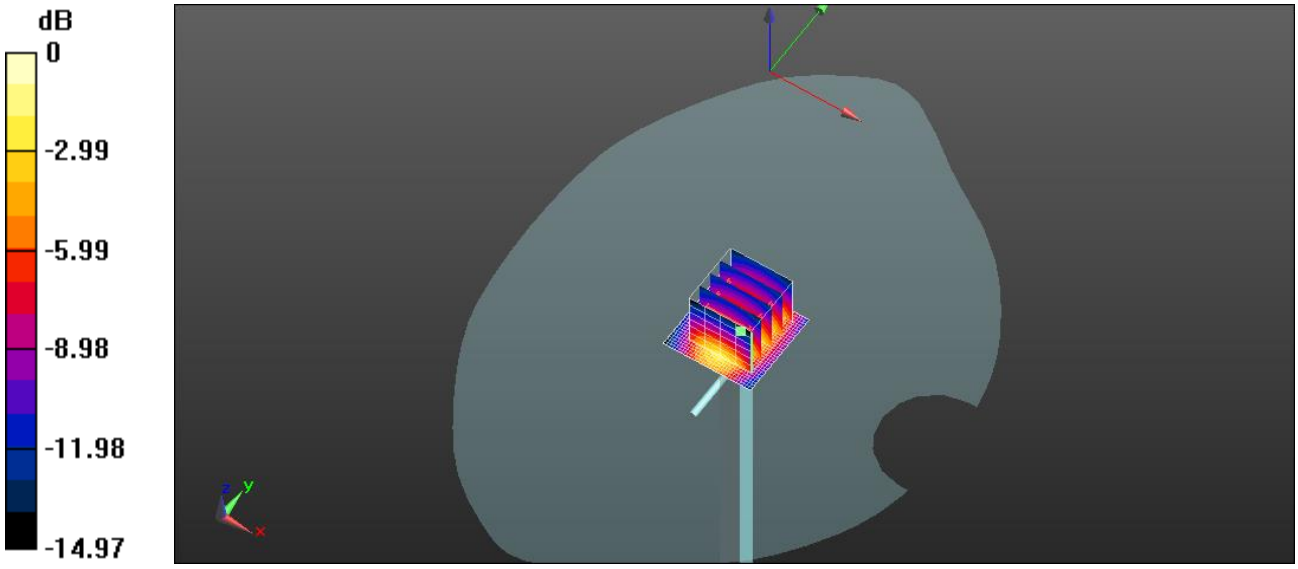
- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 90.86 V/m; Power Drift = 0.23 dB
**Fast SAR: SAR(1 g) = 9.94 W/kg; SAR(10 g) = 5.19 W/kg**
Maximum value of SAR (interpolated) = 12.6 W/kg

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 90.86 V/m; Power Drift = 0.23 dB
Peak SAR (extrapolated) = 15.5 W/kg
**SAR(1 g) = 8.85 W/kg; SAR(10 g) = 4.78 W/kg**
Maximum value of SAR (measured) = 11.1 W/kg




0 dB = 12.6 W/kg = 11.01 dBW/kg

## LTE 4, Front, No holster

Date/Time: 2/21/2020 9:01:57 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1732.5 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma$ = 1.316 S/m; $\varepsilon_r$ = 38.818; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid:

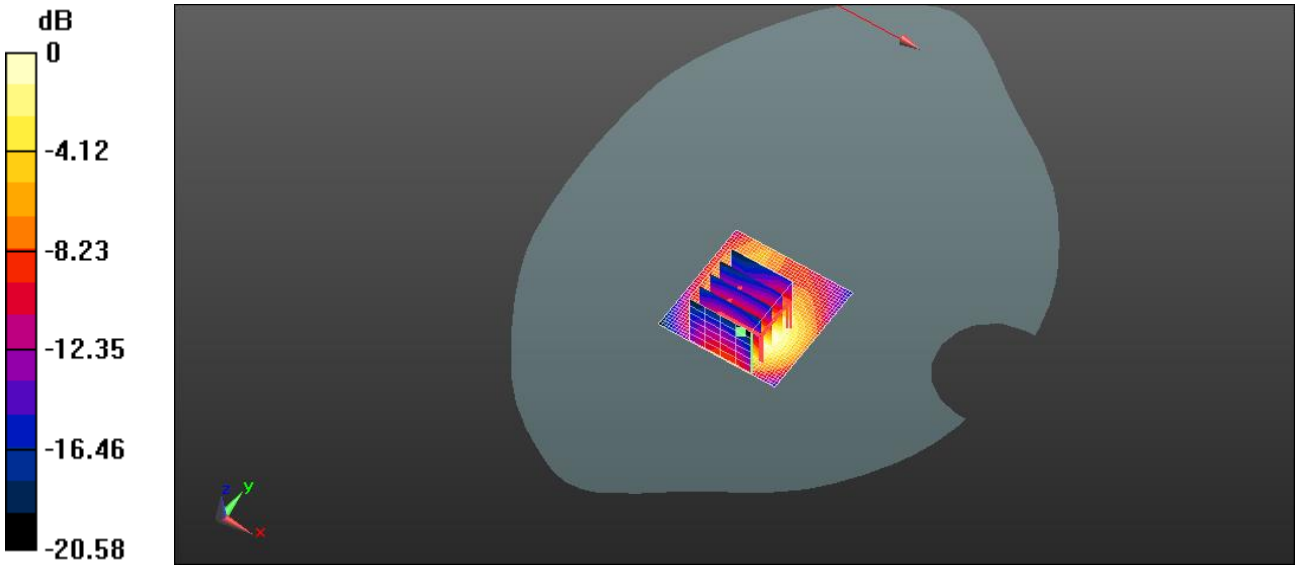
dx=1.500 mm, dy=1.500 mm
Reference Value = 18.33 V/m; Power Drift = 0.16 dB
**Fast SAR: SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.25 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 3.08 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.33 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 4.57 W/kg
**SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.19 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 3.06 W/kg




0 dB = 3.08 W/kg = 4.89 dBW/kg

## LTE 4, Left, No holster

Date/Time: 2/21/2020 9:48:35 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1732.5 MHz
Medium: HSL1900_Batch 100907-3

Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma$ = 1.316 S/m; $\varepsilon_r$ = 38.818; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

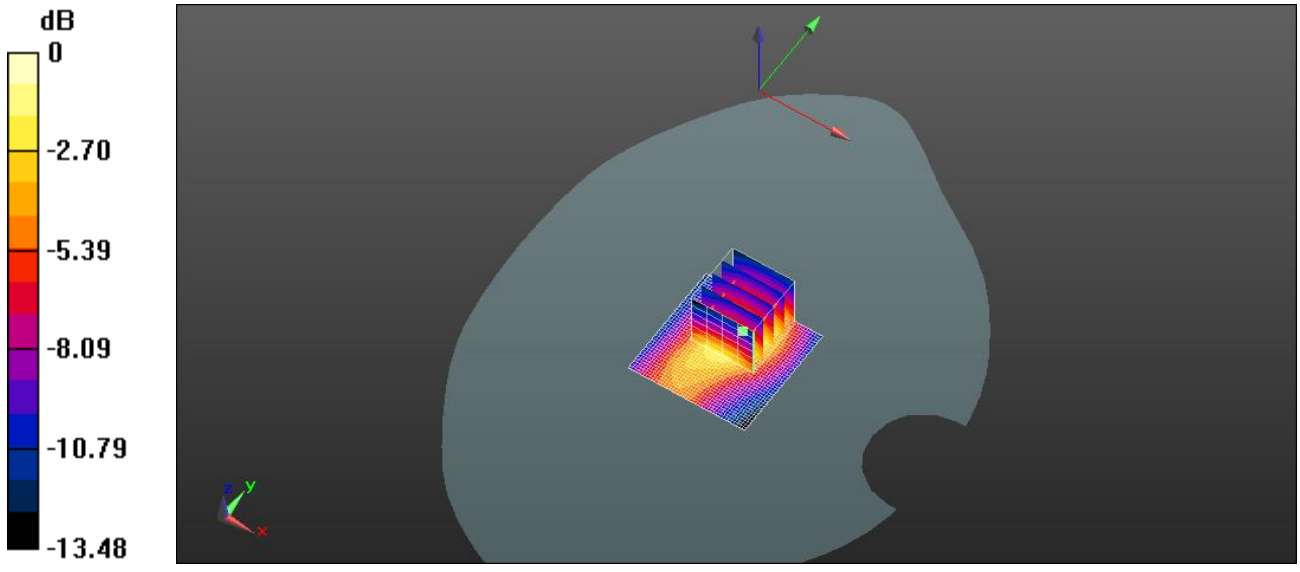
Reference Value = 15.20 V/m; Power Drift = 0.03 dB
**Fast SAR: SAR(1 g) = 0.325 W/kg; SAR(10 g) = 0.175 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.409 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.20 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 0.549 W/kg
**SAR(1 g) = 0.328 W/kg; SAR(10 g) = 0.183 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.405 W/kg




0 dB = 0.409 W/kg = -3.89 dBW/kg

## LTE 4, Right, No holster

Date/Time: 2/21/2020 10:03:06 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1732.5 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma$ = 1.316 S/m; $\varepsilon_r$ = 38.818; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

### Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

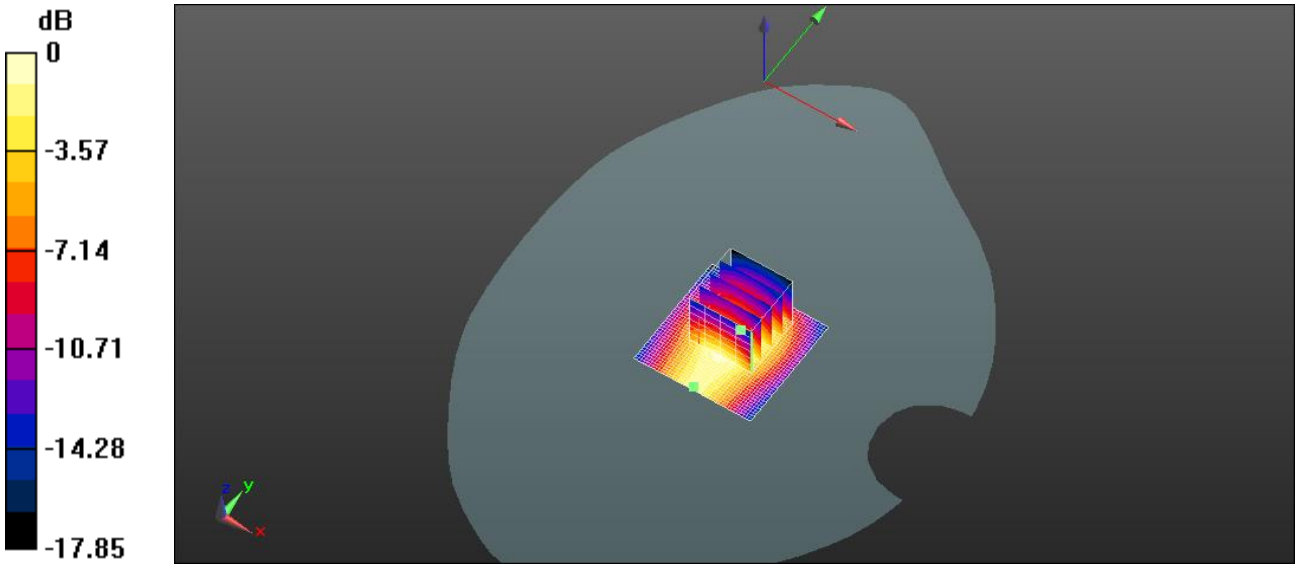
Reference Value = 34.34 V/m; Power Drift = -0.02 dB
**Fast SAR: SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.691 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.46 W/kg

### Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 34.34 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.91 W/kg
**SAR(1 g) = 1.21 W/kg; SAR(10 g) = 0.712 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.44 W/kg




0 dB = 1.46 W/kg = 1.65 dBW/kg

## LTE 4, Top, No holster

Date/Time: 2/21/2020 10:24:20 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1732.5 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma$ = 1.316 S/m; $\varepsilon_r$ = 38.818; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 27.84 V/m; Power Drift = -0.06 dB

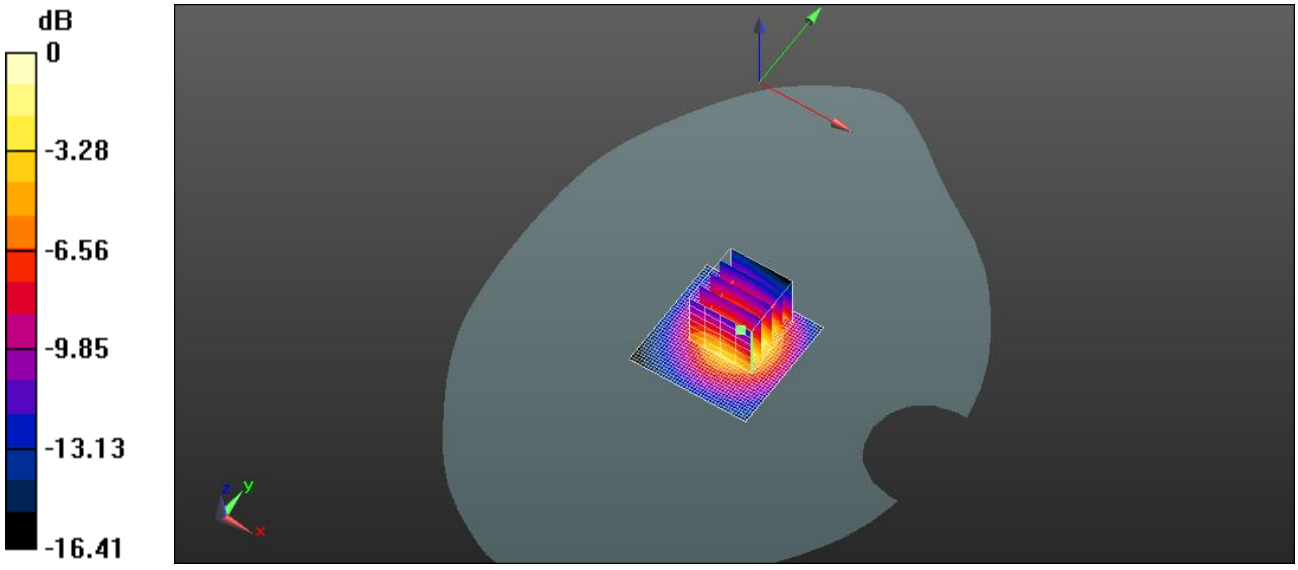
**Fast SAR: SAR(1 g) = 1.04 W/kg; SAR(10 g) = 0.526 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.33 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.84 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 1.89 W/kg
**SAR(1 g) = 0.981 W/kg; SAR(10 g) = 0.491 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.26 W/kg




0 dB = 1.33 W/kg = 1.23 dBW/kg

## LTE 4, Back, No holster

Date/Time: 2/21/2020 10:44:06 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 1732.5 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma$ = 1.316 S/m; $\varepsilon_r$ = 38.818; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

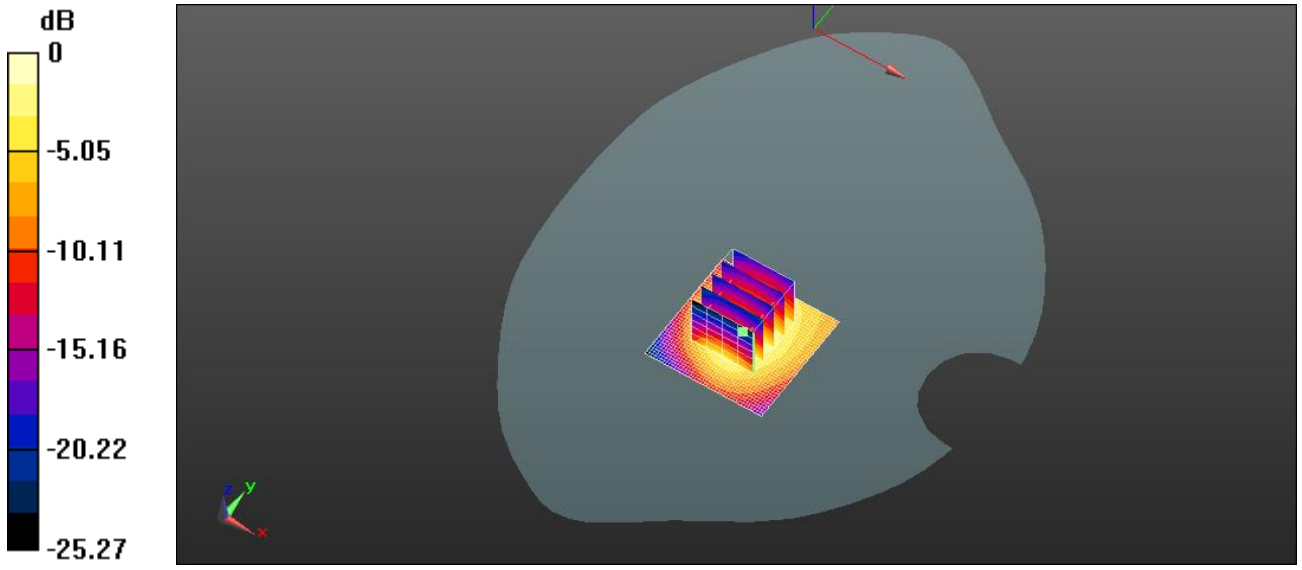
Reference Value = 27.37 V/m; Power Drift = 0.14 dB
**Fast SAR: SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.18 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 2.63 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.37 V/m; Power Drift = 0.14 dB
Peak SAR (extrapolated) = 3.87 W/kg
**SAR(1 g) = 2.2 W/kg; SAR(10 g) = 1.18 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 2.69 W/kg




0 dB = 2.63 W/kg = 4.19 dBW/kg

## 2/24/2020

## System Verification 1750MHz Dipole

Date/Time: 2/24/2020 7:31:20 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1750 MHz - D1750V2 - SN1045_April 2016; Type: D1750V2; Serial: D1750V2 - SN:1045**

Communication System: UID 0, CW (0); Frequency: 1750 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.331 S/m; $\varepsilon_r$ = 38.72; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments: ;

DASY Configuration:

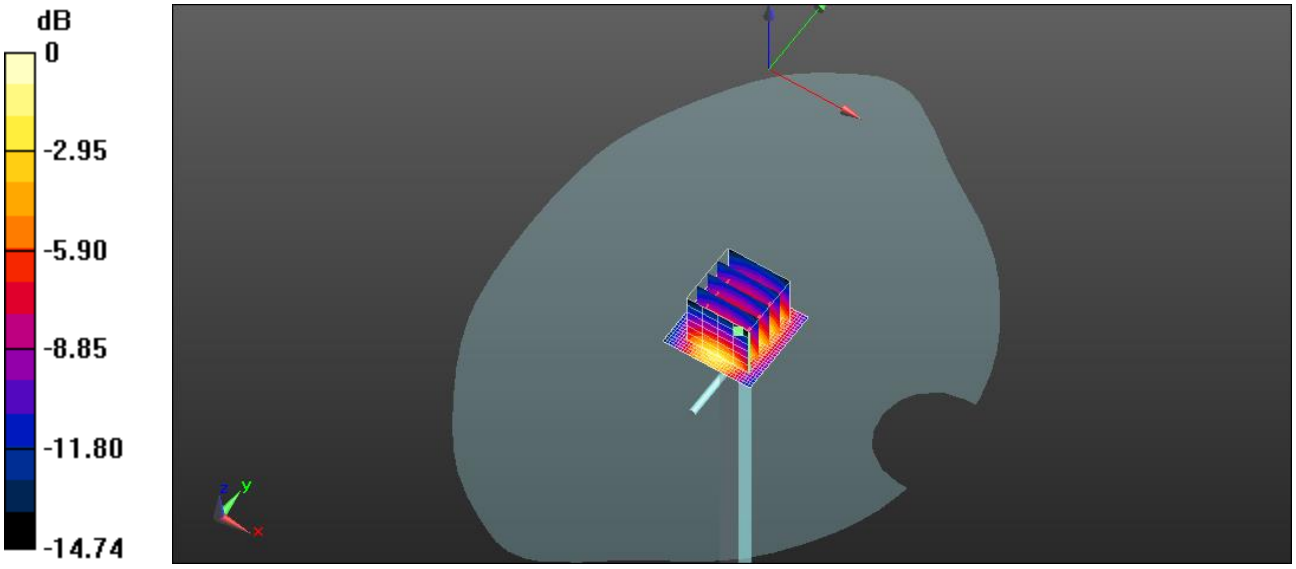
- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 93.68 V/m; Power Drift = 0.11 dB
**Fast SAR: SAR(1 g) = 9.68 W/kg; SAR(10 g) = 5.07 W/kg**
Maximum value of SAR (interpolated) = 12.3 W/kg

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 93.68 V/m; Power Drift = 0.11 dB
Peak SAR (extrapolated) = 15.8 W/kg
**SAR(1 g) = 8.92 W/kg; SAR(10 g) = 4.77 W/kg**
Maximum value of SAR (measured) = 11.3 W/kg




0 dB = 12.3 W/kg = 10.89 dBW/kg

## UMTS IV, Left, No holster

Date/Time: 2/24/2020 10:47:16 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1733 MHz; $\sigma$ = 1.317 S/m; $\varepsilon_r$ = 38.816; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

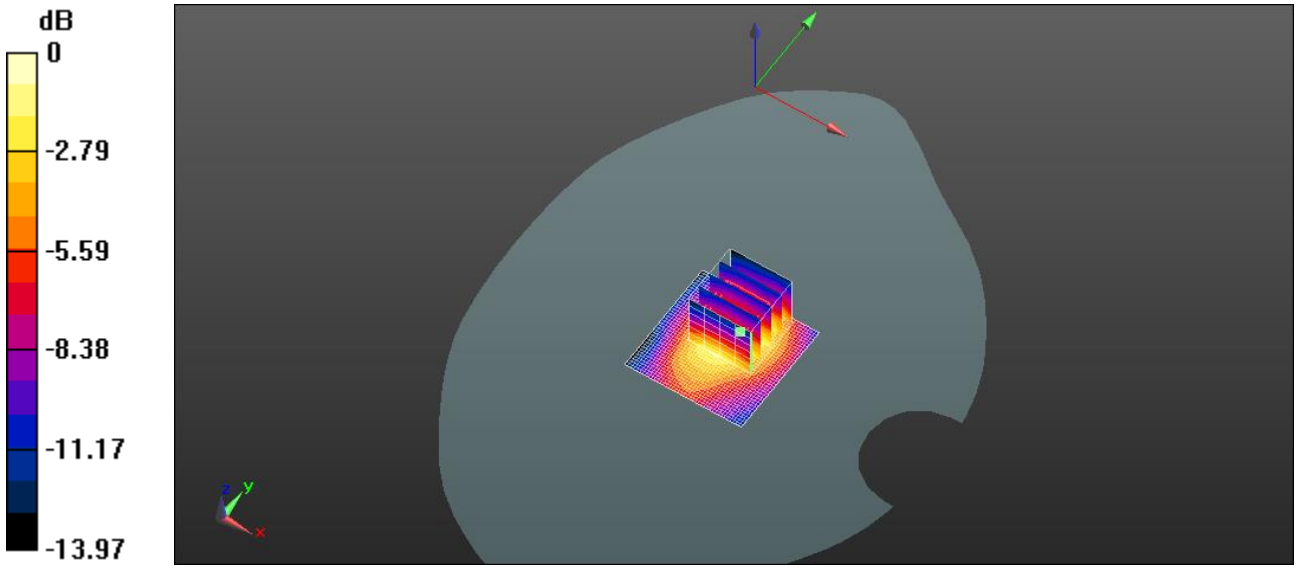
- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.44 V/m; Power Drift = 0.07 dB

**Fast SAR: SAR(1 g) = 0.383 W/kg; SAR(10 g) = 0.214 W/kg**
Maximum value of SAR (interpolated) = 0.477 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.44 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 0.482 W/kg
**SAR(1 g) = 0.296 W/kg; SAR(10 g) = 0.174 W/kg**
Maximum value of SAR (measured) = 0.363 W/kg




0 dB = 0.477 W/kg = -3.22 dBW/kg

## 2/25/2020

## System Verification 1750MHz Dipole

Date/Time: 2/25/2020 7:10:29 AM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1750 MHz - D1750V2 - SN1045_April 2016; Type: D1750V2; Serial: D1750V2 - SN:1045**

Communication System: UID 0, CW (0); Frequency: 1750 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.331 S/m; $\varepsilon_r$ = 38.72; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments: ;

DASY Configuration:

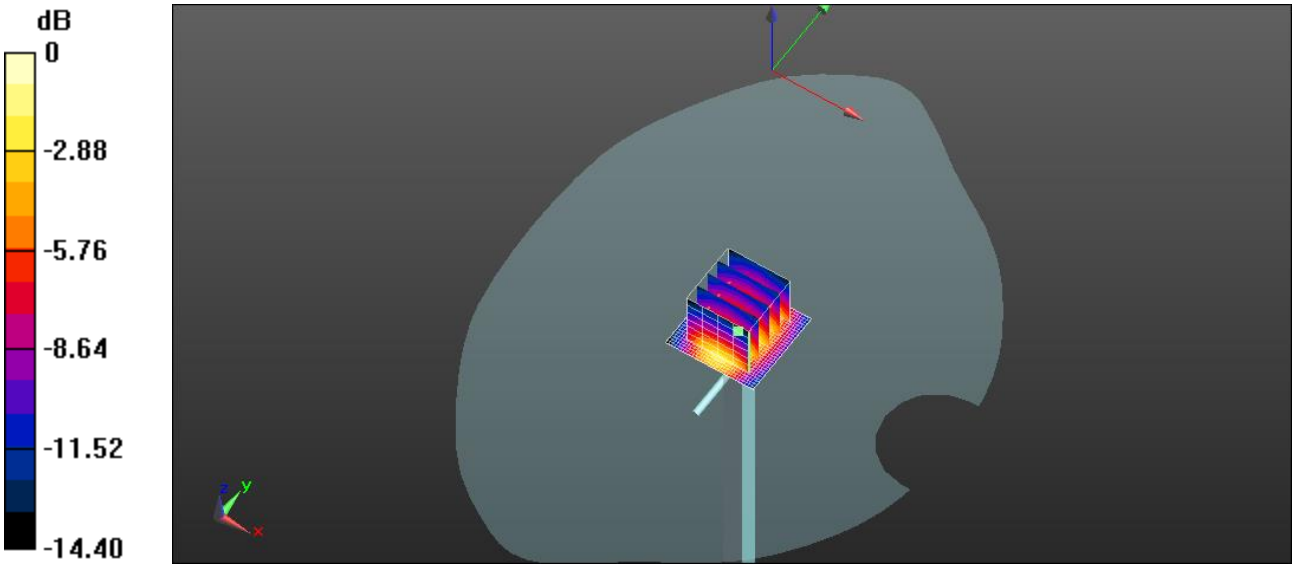
- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 95.25 V/m; Power Drift = -0.07 dB
**Fast SAR: SAR(1 g) = 10.3 W/kg; SAR(10 g) = 5.32 W/kg**
Maximum value of SAR (interpolated) = 13.2 W/kg

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 95.25 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 16.4 W/kg
**SAR(1 g) = 9.33 W/kg; SAR(10 g) = 5.01 W/kg**
Maximum value of SAR (measured) = 11.7 W/kg




0 dB = 13.2 W/kg = 11.19 dBW/kg

## UMTS IV, Front, No holster

Date/Time: 2/25/2020 12:57:47 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1733 MHz; $\sigma$ = 1.317 S/m; $\varepsilon_r$ = 38.816; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

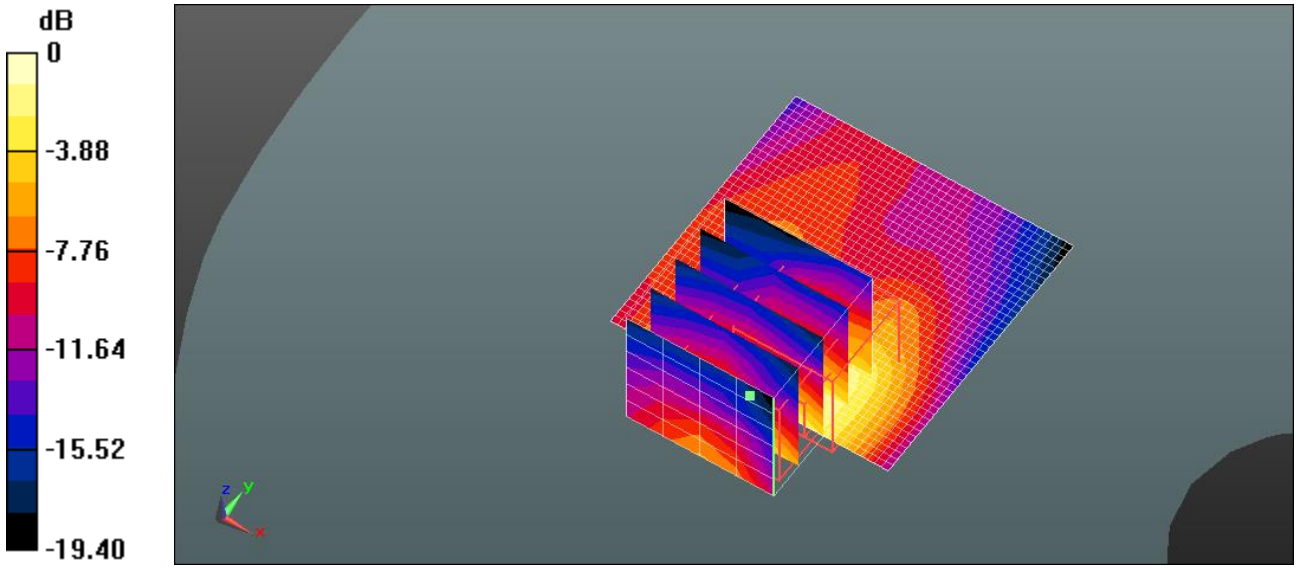
**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 13.08 V/m; Power Drift = 0.15 dB

**Fast SAR: SAR(1 g) = 1.51 W/kg; SAR(10 g) = 0.707 W/kg**

Maximum value of SAR (interpolated) = 2.42 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 13.08 V/m; Power Drift = 0.15 dB
Peak SAR (extrapolated) = 3.76 W/kg
**SAR(1 g) = 1.42 W/kg; SAR(10 g) = 0.643 W/kg**
Maximum value of SAR (measured) = 2.11 W/kg




0 dB = 2.42 W/kg = 3.84 dBW/kg

## UMTS IV, Right, No holster

Date/Time: 2/25/2020 7:14:49 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

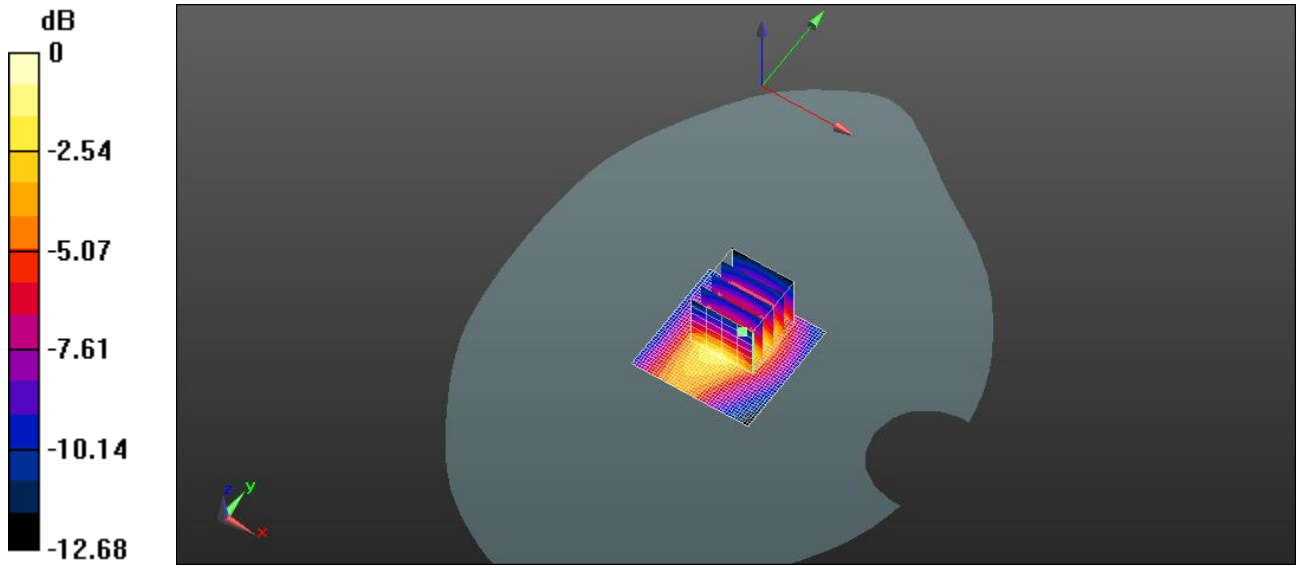
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1733 MHz; $\sigma$ = 1.317 S/m; $\varepsilon_r$ = 38.816; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.18 V/m; Power Drift = -0.08 dB
**Fast SAR: SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.277 W/kg**
Maximum value of SAR (interpolated) = 0.623 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.18 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 0.830 W/kg
**SAR(1 g) = 0.496 W/kg; SAR(10 g) = 0.281 W/kg**
Maximum value of SAR (measured) = 0.608 W/kg




0 dB = 0.623 W/kg = -2.06 dBW/kg

## UMTS IV, Top, No holster

Date/Time: 2/25/2020 1:42:49 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: H3R3000014**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1733 MHz; $\sigma$ = 1.317 S/m; $\varepsilon_r$ = 38.816; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

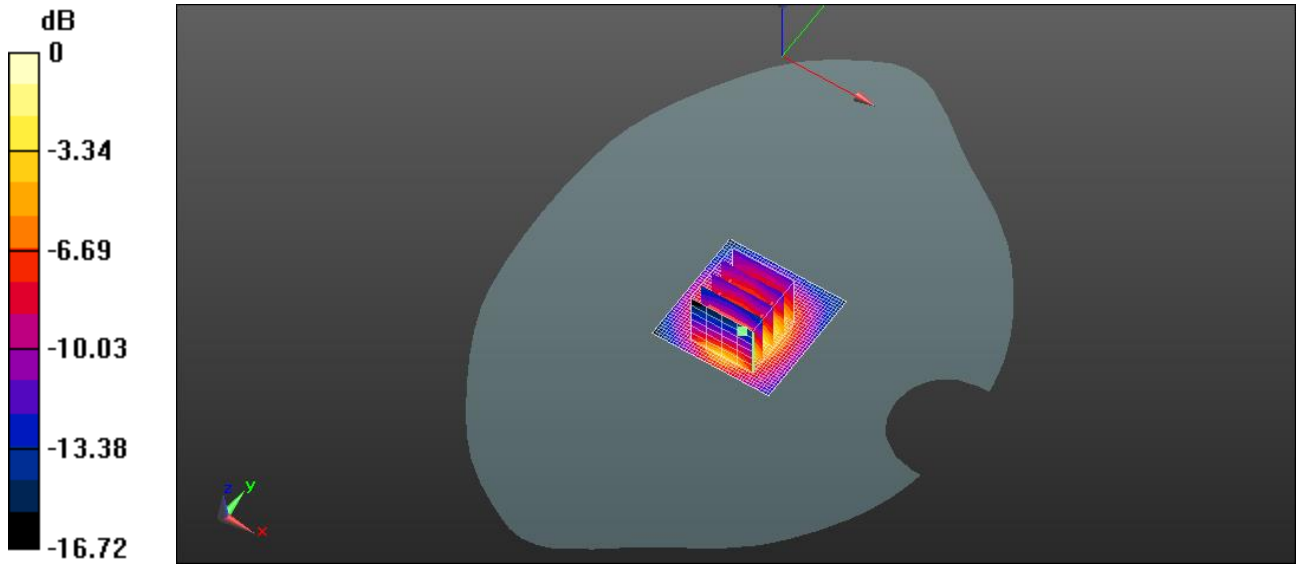
- Probe: ES3DV3 - SN3323; ConvF(5.47, 5.47, 5.47); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 15.30 V/m; Power Drift = 0.02 dB
**Fast SAR: SAR(1 g) = 0.206 W/kg; SAR(10 g) = 0.107 W/kg**
Maximum value of SAR (interpolated) = 0.257 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

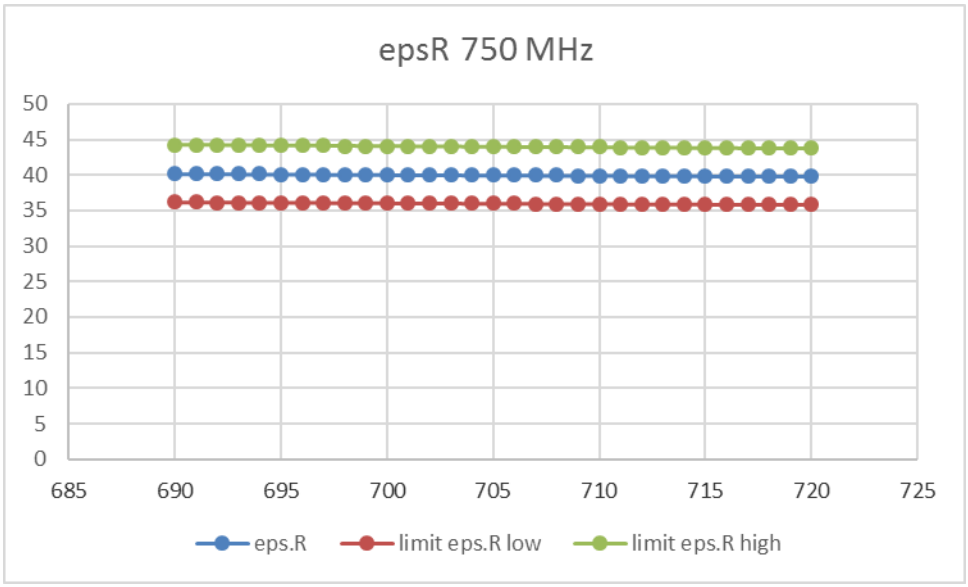
Reference Value = 15.30 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.397 W/kg
**SAR(1 g) = 0.211 W/kg; SAR(10 g) = 0.105 W/kg**
Maximum value of SAR (measured) = 0.272 W/kg

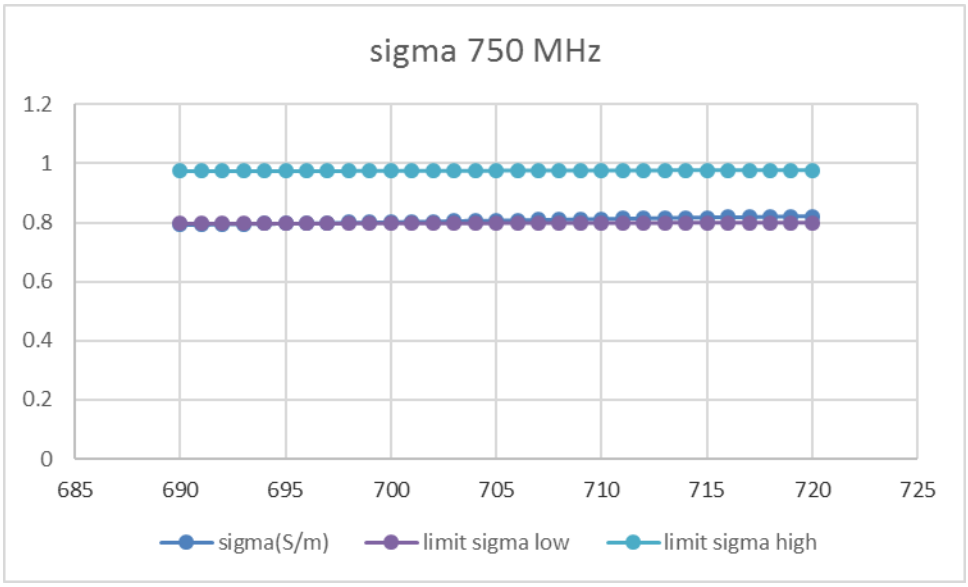



0 dB = 0.257 W/kg = -5.90 dBW/kg

## 2/27/2020

### Liquid qualification 750 MHz



## System Verification 750MHz Dipole

Date/Time: 2/27/2020 5:45:43 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Dipole 750 MHz - D750V3 - SN1032_April 2016; Type: D750V3; Serial: D750V3 - SN:1032**

Communication System: UID 0, CW (0); Frequency: 750 MHz
Medium: HSL750_Batch 110524-3
Medium parameters used (extrapolated): f = 750 MHz; $\sigma$ = 0.851 S/m; $\varepsilon_r$ = 39.461; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 22.5c; Medium Temperature: 22.2C; Comments: ;

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.21, 6.21, 6.21); Calibrated: 4/28/2016;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1124
- DASY52 52.8.8(1222);

### System Performance Check 750 MHz Head/d=10mm, Pin=1W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

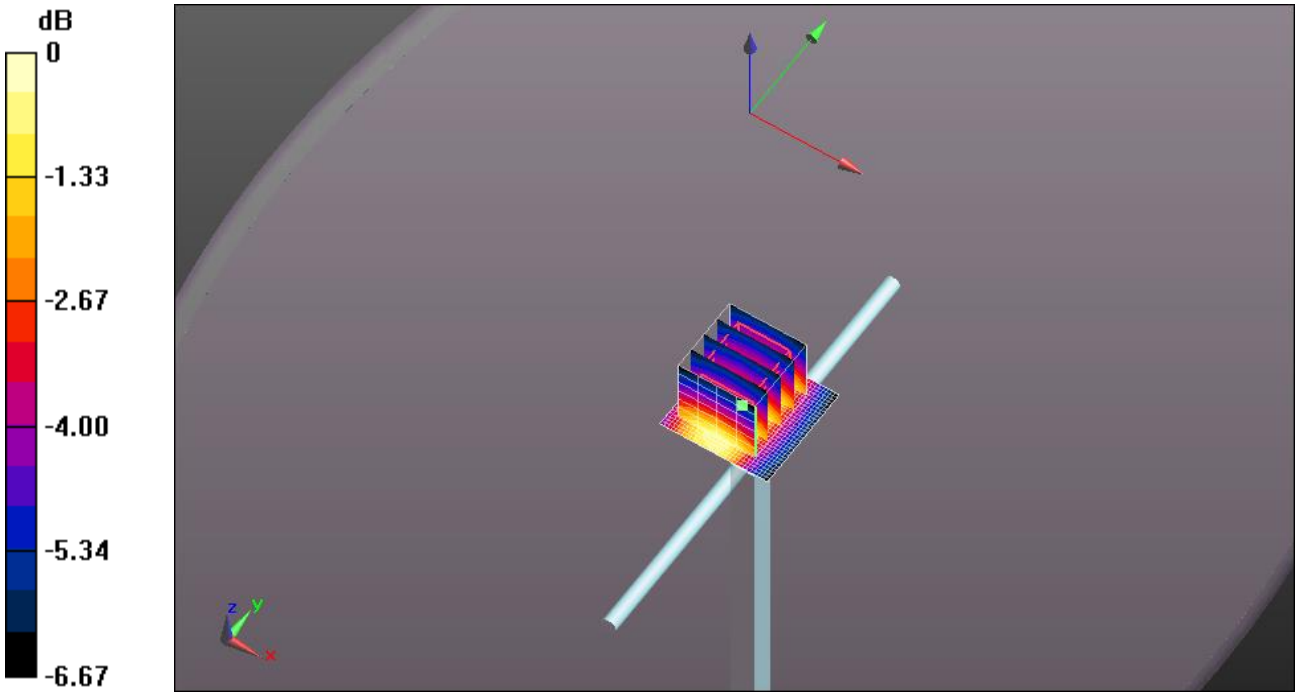
Reference Value = 50.30 V/m; Power Drift = 0.07 dB
**Fast SAR: SAR(1 g) = 1.97 W/kg; SAR(10 g) = 1.33 W/kg**

Info: Extrapolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 2.27 W/kg

### System Performance Check 750 MHz Head/d=10mm, Pin=1W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 50.30 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 2.62 W/kg
**SAR(1 g) = 1.82 W/kg; SAR(10 g) = 1.21 W/kg**

Info: Extrapolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 2.12 W/kg




0 dB = 2.27 W/kg = 3.56 dBW/kg

## LTE 12, Front, No holster

Date/Time: 2/27/2020 7:28:56 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL750_Batch 110524-3
Medium parameters used: f = 720 MHz; $\sigma$ = 0.822 S/m; $\varepsilon_r$ = 39.831; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

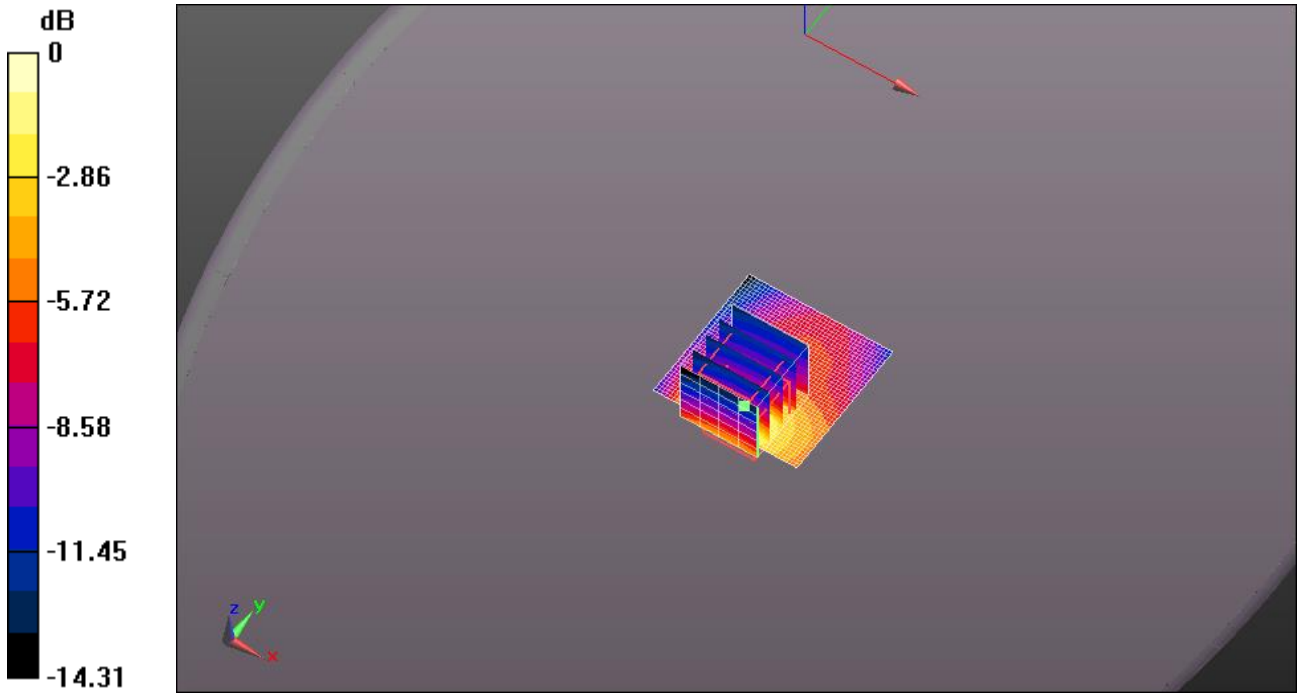
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1124
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.31 V/m; Power Drift = -0.11 dB
**Fast SAR: SAR(1 g) = 0.603 W/kg; SAR(10 g) = 0.359 W/kg**

Maximum value of SAR (interpolated) = 0.732 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.31 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 2.96 W/kg
**SAR(1 g) = 0.836 W/kg; SAR(10 g) = 0.329 W/kg**

Maximum value of SAR (measured) = 1.04 W/kg




0 dB = 0.732 W/kg = -1.35 dBW/kg

## LTE 12, Back, No holster

Date/Time: 2/27/2020 7:48:52 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL750_Batch 110524-3
Medium parameters used: f = 720 MHz; $\sigma$ = 0.822 S/m; $\varepsilon_r$ = 39.831; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1124
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

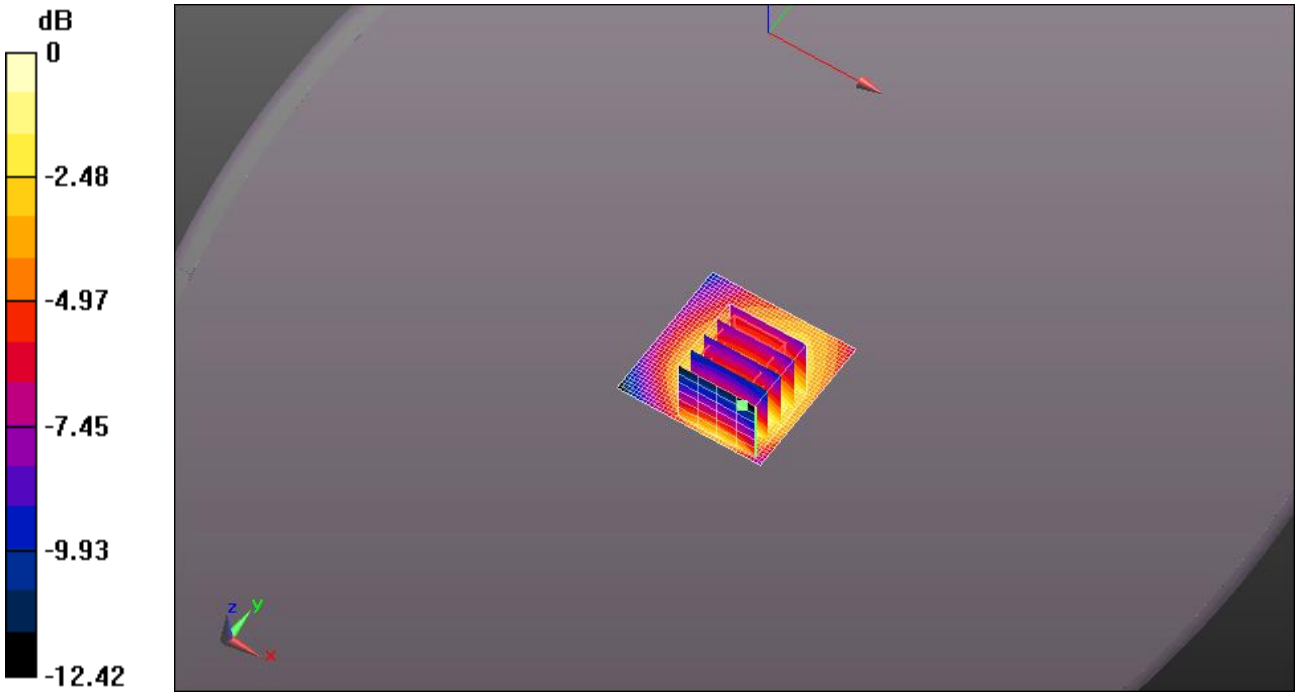
Reference Value = 26.43 V/m; Power Drift = -0.25 dB
**Fast SAR: SAR(1 g) = 0.980 W/kg; SAR(10 g) = 0.638 W/kg**

Maximum value of SAR (interpolated) = 1.14 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 26.43 V/m; Power Drift = -0.25 dB
Peak SAR (extrapolated) = 1.61 W/kg
**SAR(1 g) = 0.849 W/kg; SAR(10 g) = 0.561 W/kg**

Maximum value of SAR (measured) = 0.982 W/kg




0 dB = 1.14 W/kg = 0.58 dBW/kg

## LTE 12, Right, No holster

Date/Time: 2/27/2020 8:01:57 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL750_Batch 110524-3
Medium parameters used: f = 720 MHz; $\sigma$ = 0.822 S/m; $\varepsilon_r$ = 39.831; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

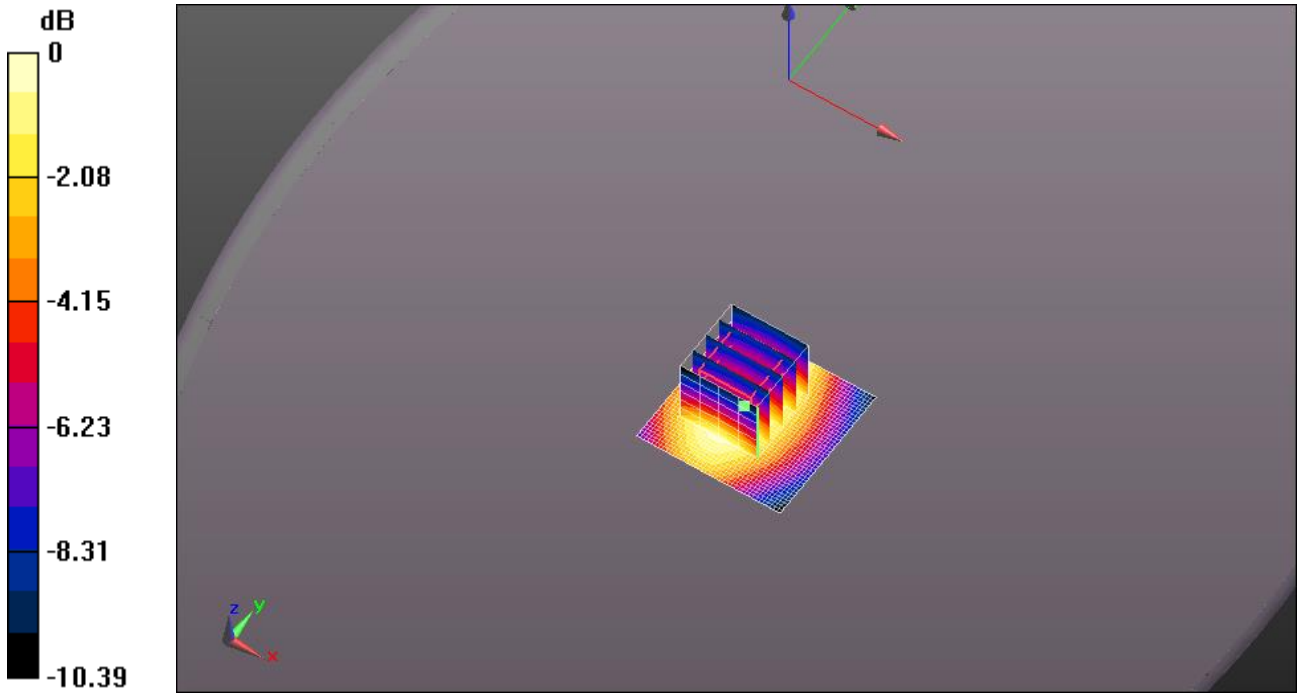
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1124
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 21.96 V/m; Power Drift = 0.00 dB
**Fast SAR: SAR(1 g) = 0.364 W/kg; SAR(10 g) = 0.251 W/kg**

Maximum value of SAR (interpolated) = 0.415 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 21.96 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.542 W/kg
**SAR(1 g) = 0.358 W/kg; SAR(10 g) = 0.240 W/kg**

Maximum value of SAR (measured) = 0.417 W/kg




0 dB = 0.415 W/kg = -3.82 dBW/kg

## LTE 12, Left, No holster

Date/Time: 2/27/2020 8:14:17 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL750_Batch 110524-3
Medium parameters used: f = 720 MHz; $\sigma$ = 0.822 S/m; $\varepsilon_r$ = 39.831; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1124
- DASY52 52.8.8(1222);

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

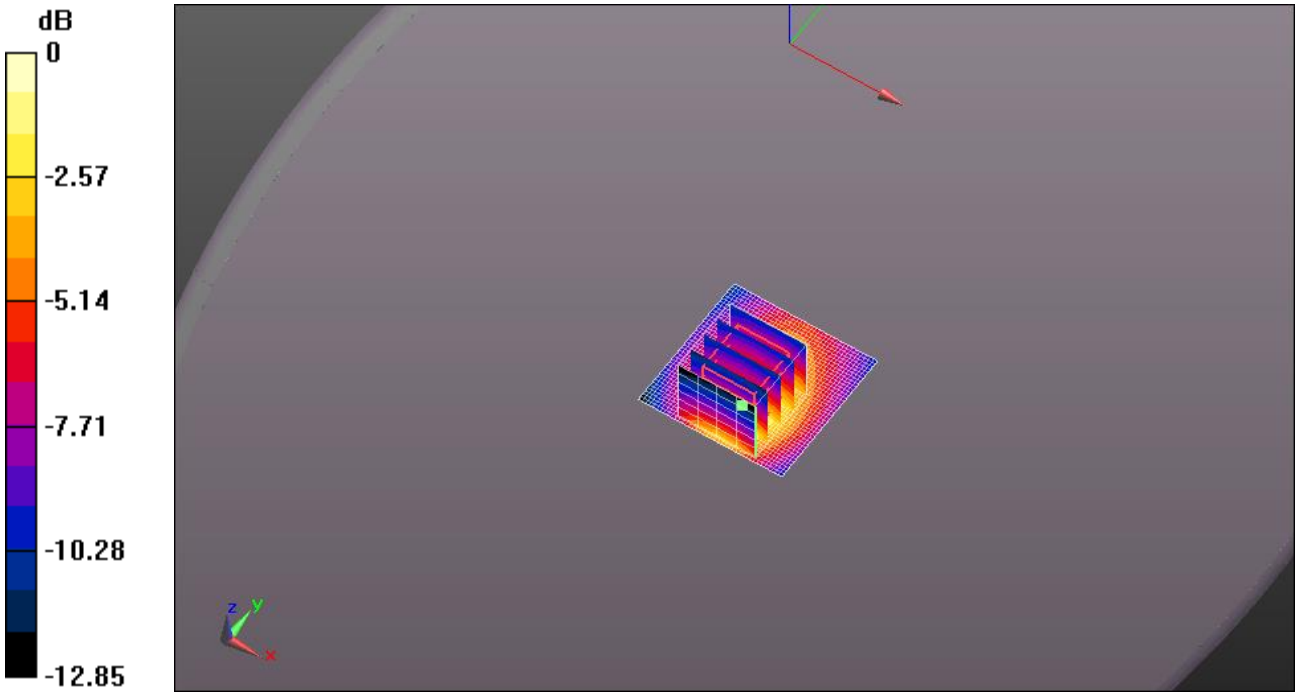
Reference Value = 10.37 V/m; Power Drift = 0.17 dB
**Fast SAR: SAR(1 g) = 0.190 W/kg; SAR(10 g) = 0.114 W/kg**

Maximum value of SAR (interpolated) = 0.233 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.37 V/m; Power Drift = 0.17 dB
Peak SAR (extrapolated) = 0.341 W/kg
**SAR(1 g) = 0.180 W/kg; SAR(10 g) = 0.103 W/kg**

Maximum value of SAR (measured) = 0.222 W/kg




0 dB = 0.233 W/kg = -6.33 dBW/kg

## LTE 12, Top, No holster

Date/Time: 2/27/2020 8:32:03 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAD, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 836.5 MHz
Medium: HSL750_Batch 110524-3
Medium parameters used: f = 720 MHz; $\sigma$ = 0.822 S/m; $\varepsilon_r$ = 39.831; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

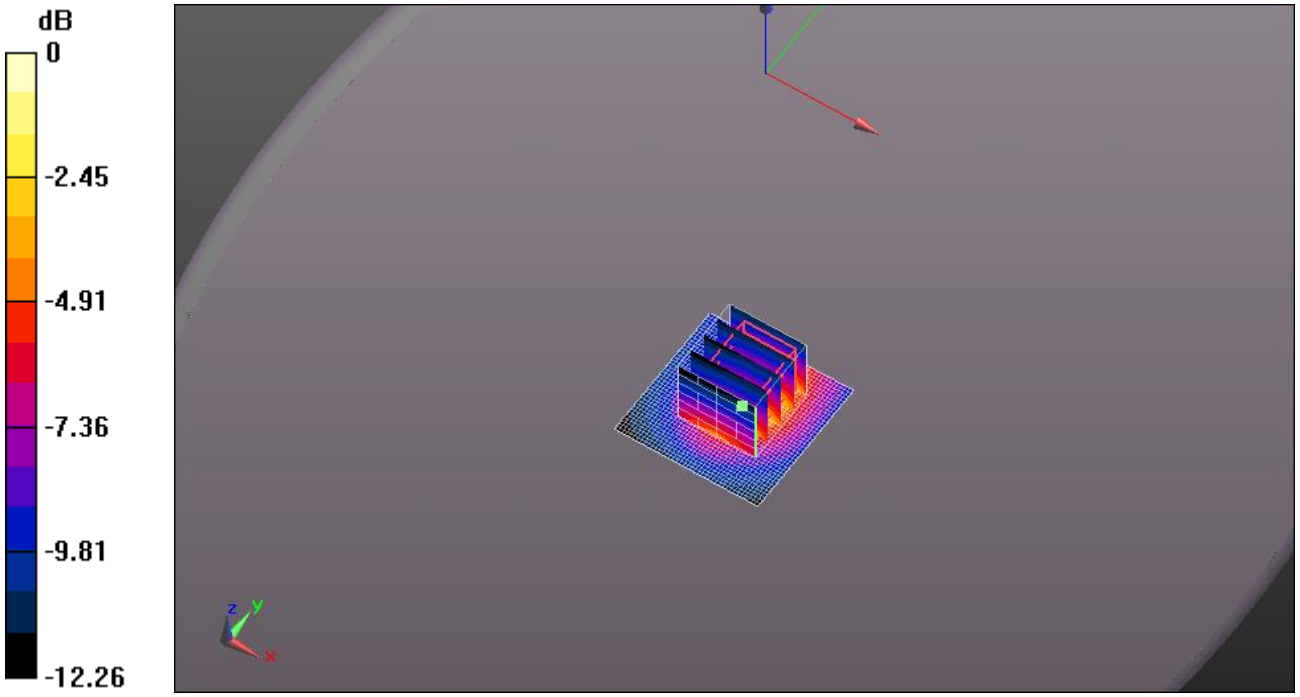
- Probe: ES3DV3 - SN3323; ConvF(6.38, 6.38, 6.38); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1124
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.44 V/m; Power Drift = -0.13 dB
**Fast SAR: SAR(1 g) = 0.298 W/kg; SAR(10 g) = 0.162 W/kg**

Maximum value of SAR (interpolated) = 0.391 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.44 V/m; Power Drift = -0.13 dB
Peak SAR (extrapolated) = 0.738 W/kg
**SAR(1 g) = 0.276 W/kg; SAR(10 g) = 0.129 W/kg**

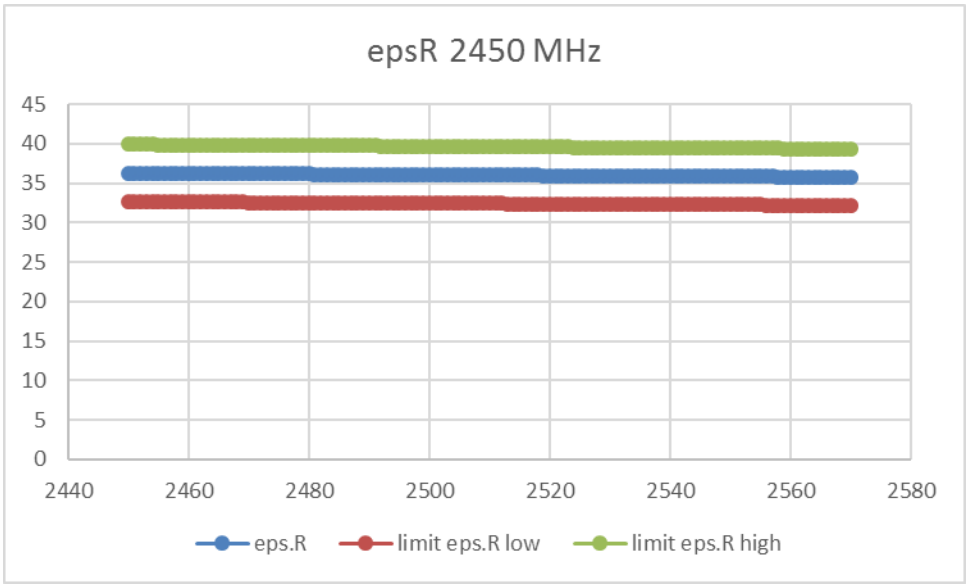
Maximum value of SAR (measured) = 0.372 W/kg

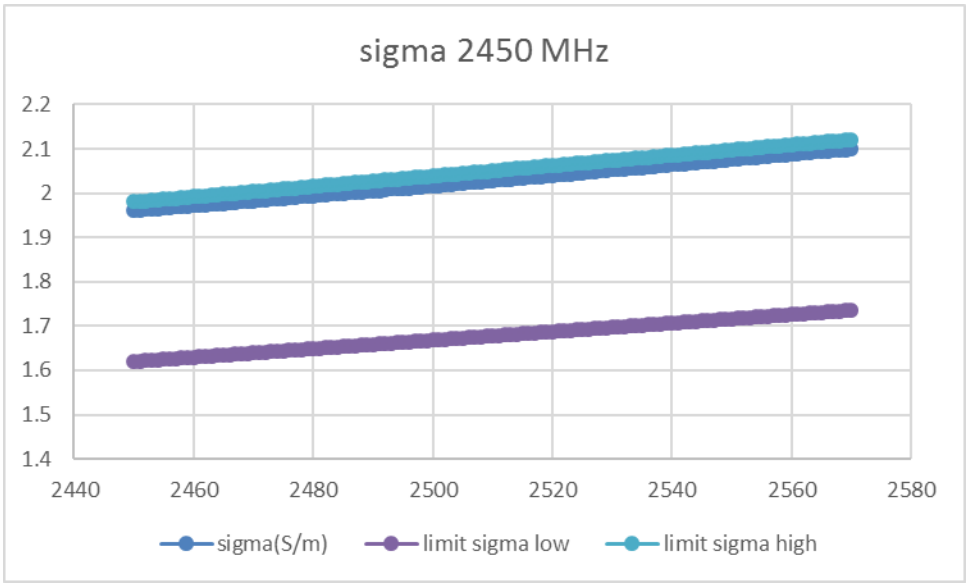



0 dB = 0.391 W/kg = -4.08 dBW/kg

## 2/28/2020

### Liquid qualification 2450 MHz



## System Verification 2450 MHz Dipole

Date/Time: 2/28/2020 2:41:18 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Dipole 2450 MHz - D2450V2 - SN589; Type: D2450V2; Serial: D2450V2 - SN:589**

Communication System: UID 0, CW (0); Frequency: 2450 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.961 S/m; $\varepsilon_r$ = 36.295; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 22.5c; Medium Temperature: 22.2C; Comments: ;

DASY Configuration:

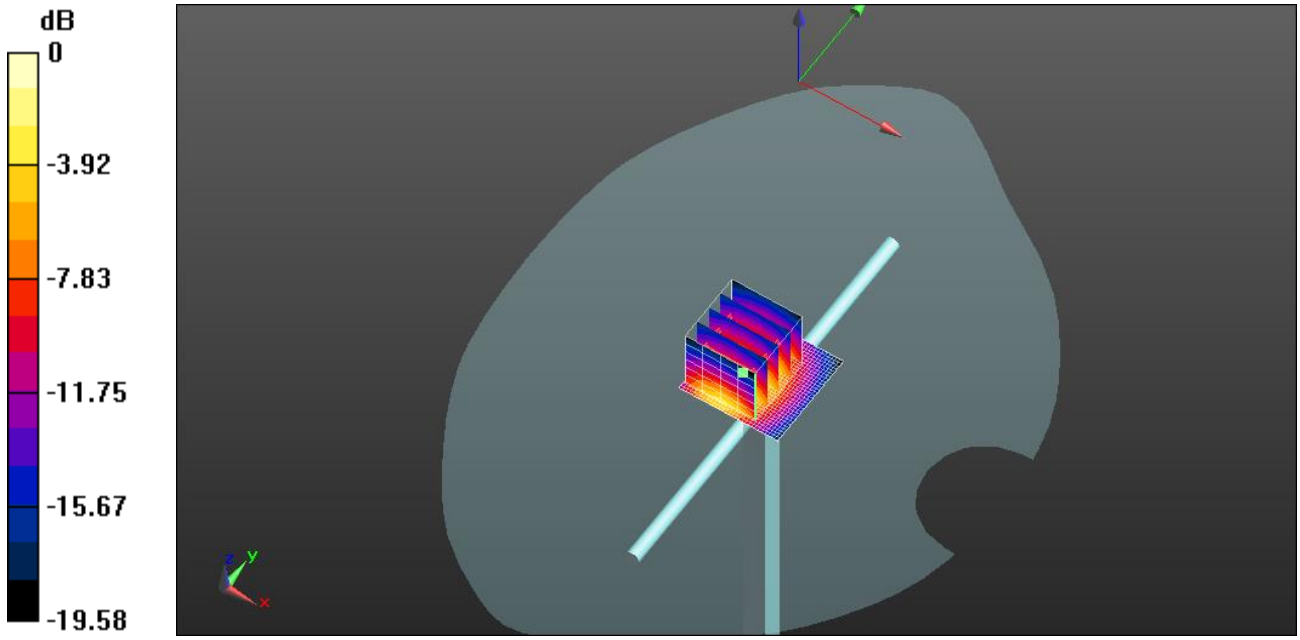
- Probe: ES3DV3 - SN3323; ConvF(4.63, 4.63, 4.63); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

### System Performance Check 750 MHz Head/d=10mm, Pin=1W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 80.45 V/m; Power Drift = 0.08 dB
**Fast SAR: SAR(1 g) = 13.1 W/kg; SAR(10 g) = 5.67 W/kg**
Maximum value of SAR (interpolated) = 17.4 W/kg

### System Performance Check 750 MHz Head/d=10mm, Pin=1W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 80.45 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 26.9 W/kg
**SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.87 W/kg**
Maximum value of SAR (measured) = 17.1 W/kg




0 dB = 17.4 W/kg = 12.40 dBW/kg

## LTE 7, Front, No holster

Date/Time: 2/28/2020 12:43:38 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

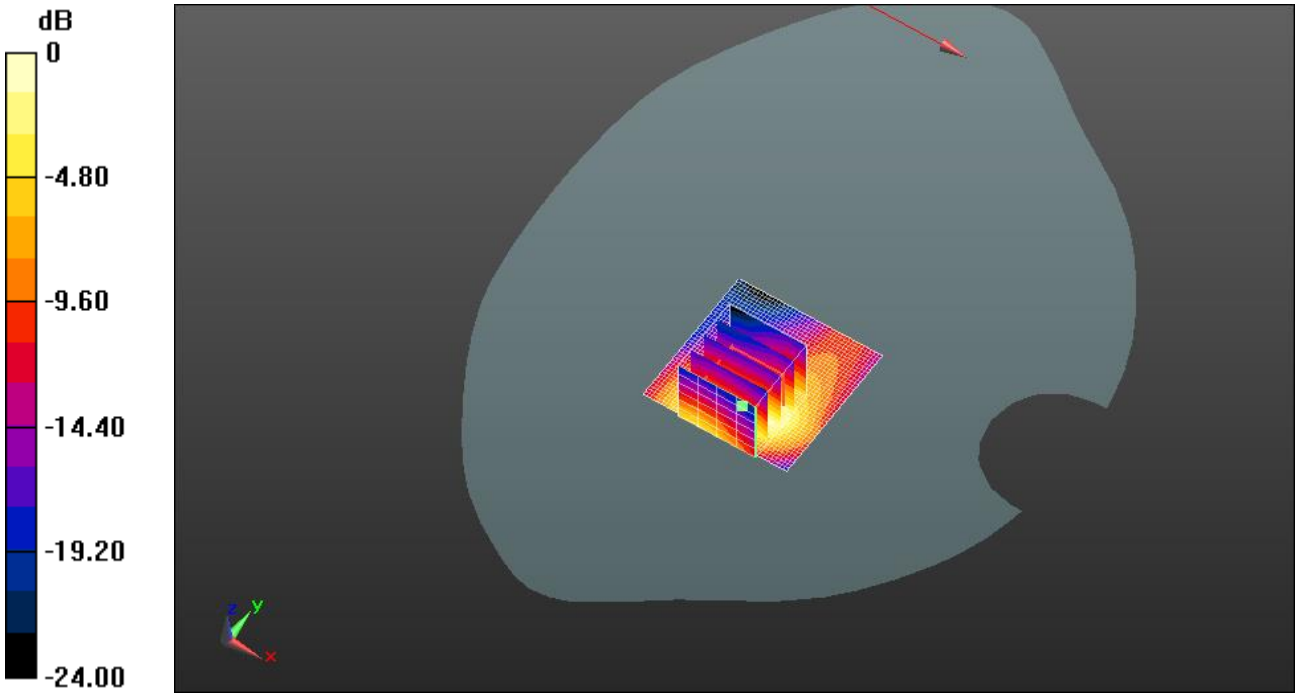
Communication System: UID 10108 - CAB, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK); Frequency: 2535 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2535 MHz; $\sigma$ = 2.071 S/m; $\varepsilon_r$ = 37.291; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(4.63, 4.63, 4.63); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 9.073 V/m; Power Drift = 0.03 dB
**Fast SAR: SAR(1 g) = 5.26 W/kg; SAR(10 g) = 2.28 W/kg**
Maximum value of SAR (interpolated) = 7.14 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.073 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 12.5 W/kg
**SAR(1 g) = 5.3 W/kg; SAR(10 g) = 2.2 W/kg**
Maximum value of SAR (measured) = 7.14 W/kg




0 dB = 7.14 W/kg = 8.54 dBW/kg

## LTE 7, Front, With holster

Date/Time: 2/28/2020 3:32:36 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAB, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 2535 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2535 MHz; $\sigma$ = 2.058 S/m; $\varepsilon_r$ = 35.923; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(4.63, 4.63, 4.63); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 8.969 V/m; Power Drift = -0.07 dB
**Fast SAR: SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.538 W/kg**
Maximum value of SAR (interpolated) = 1.40 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.969 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 2.31 W/kg
**SAR(1 g) = 1.15 W/kg; SAR(10 g) = 0.573 W/kg**
Maximum value of SAR (measured) = 1.44 W/kg

0 dB = 1.40 W/kg = 1.45 dBW/kg

## LTE 7, Back, No holster

Date/Time: 2/28/2020 3:53:26 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAB, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 2535 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2535 MHz; $\sigma$ = 2.058 S/m; $\varepsilon_r$ = 35.923; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

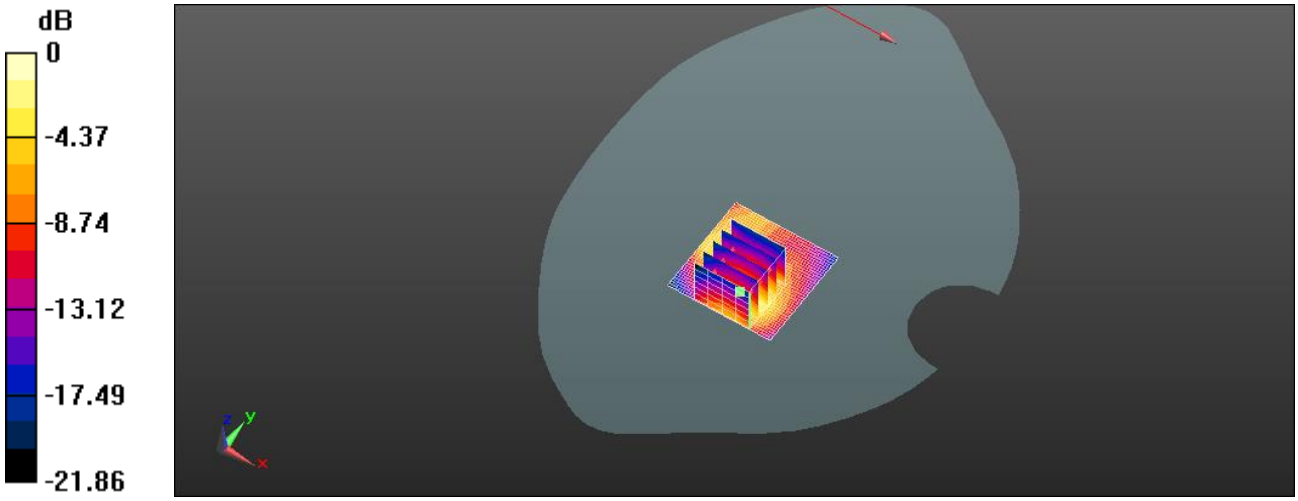
- Probe: ES3DV3 - SN3323; ConvF(4.63, 4.63, 4.63); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 17.08 V/m; Power Drift = 0.29 dB
**Fast SAR: SAR(1 g) = 3.15 W/kg; SAR(10 g) = 1.27 W/kg**

Maximum value of SAR (interpolated) = 4.72 W/kg

## Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.08 V/m; Power Drift = 0.29 dB
Peak SAR (extrapolated) = 7.94 W/kg
**SAR(1 g) = 3.5 W/kg; SAR(10 g) = 1.47 W/kg**
Maximum value of SAR (measured) = 4.80 W/kg




0 dB = 4.72 W/kg = 6.74 dBW/kg

## LTE 7, Right, No holster

Date/Time: 2/28/2020 4:55:09 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAB, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 2535 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2535 MHz; $\sigma$ = 2.058 S/m; $\varepsilon_r$ = 35.923; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

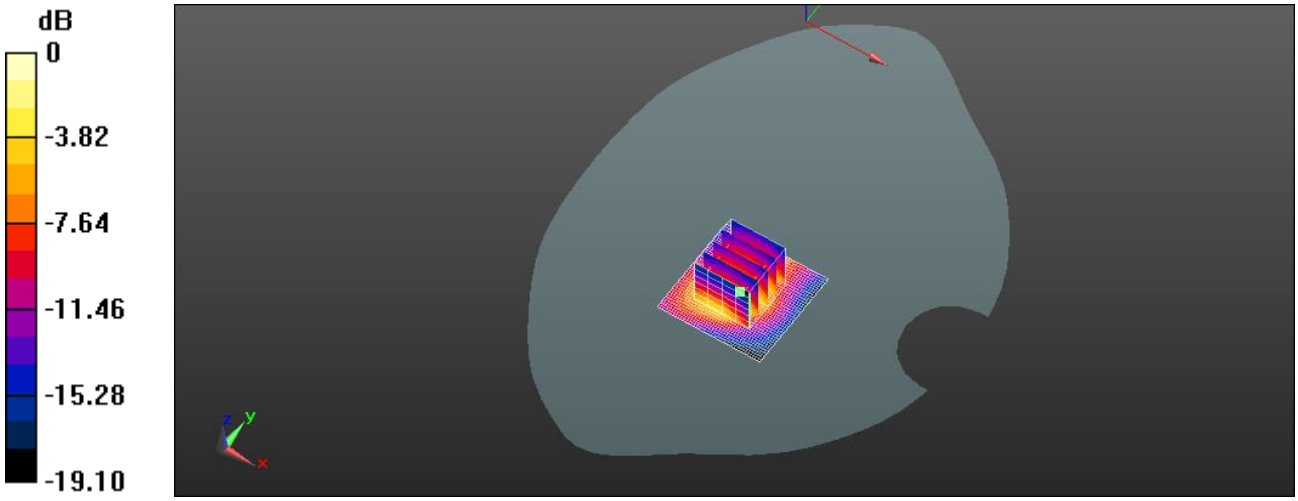
- Probe: ES3DV3 - SN3323; ConvF(4.63, 4.63, 4.63); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

### Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 18.50 V/m; Power Drift = 0.09 dB
**Fast SAR: SAR(1 g) = 1.7 W/kg; SAR(10 g) = 0.703 W/kg**
Maximum value of SAR (interpolated) = 2.41 W/kg

### Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 18.50 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 4.49 W/kg
**SAR(1 g) = 1.94 W/kg; SAR(10 g) = 0.846 W/kg**
Maximum value of SAR (measured) = 2.48 W/kg




0 dB = 2.41 W/kg = 3.83 dBW/kg

## LTE 7, Right, With holster

Date/Time: 2/28/2020 5:09:49 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10154 - CAB, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 2535 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2535 MHz; $\sigma$ = 2.058 S/m; $\varepsilon_r$ = 35.923; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: narada and jeff Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments

DASY Configuration:

- Probe: ES3DV3 - SN3323; ConvF(4.63, 4.63, 4.63); Calibrated: 5/12/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (41x41x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 14.99 V/m; Power Drift = -0.06 dB
**Fast SAR: SAR(1 g) = 1.26 W/kg; SAR(10 g) = 0.581 W/kg**
Maximum value of SAR (interpolated) = 1.70 W/kg

**Product Test/d=15mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 14.99 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 2.87 W/kg
**SAR(1 g) = 1.35 W/kg; SAR(10 g) = 0.633 W/kg**
Maximum value of SAR (measured) = 1.72 W/kg

0 dB = 1.70 W/kg = 2.29 dBW/kg

## 3/10/2020

## System Verification 2450 MHz

Date/Time: 3/10/2020 5:17:52 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Dipole 2450 MHz - D2450V2 - SN859_April 2016; Type: D2450V2; Serial: D2450V2 - SN:859**

Communication System: UID 0, CW (0); Frequency: 2450 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2450 MHz; $\sigma$ = 1.961 S/m; $\varepsilon_r$ = 36.295; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Kathy; Air Temperature: 22.5c; Medium Temperature: 22.2C; Comments: ;

DASY Configuration:

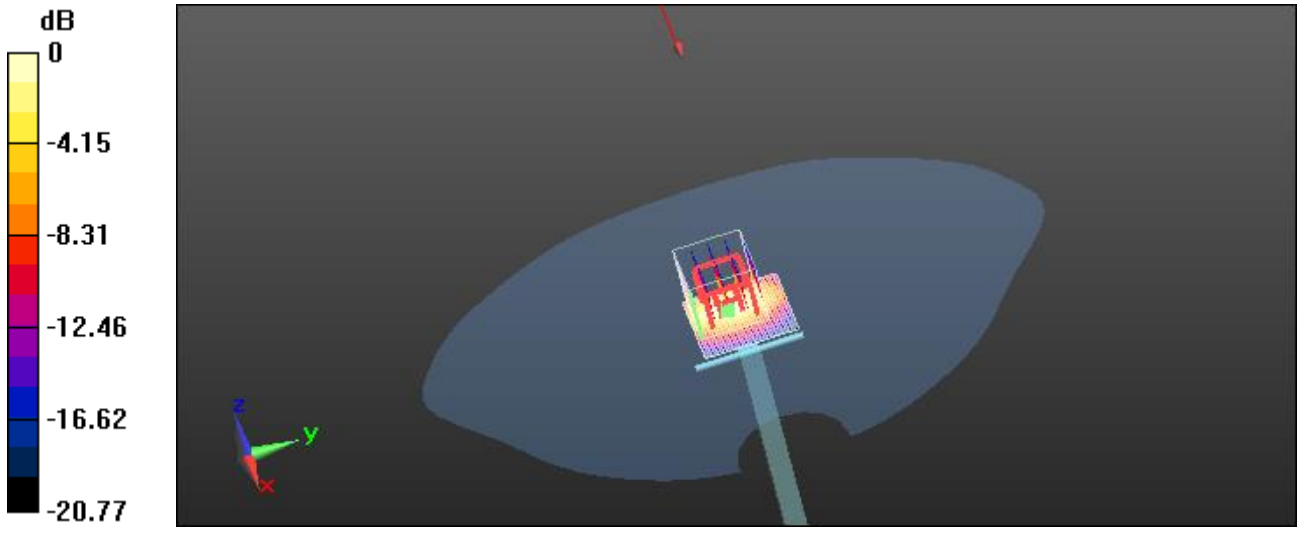
- Probe: ES3DV3 - SN3244; ConvF(4.75, 4.75, 4.75); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

### System Performance Check 2450 MHz Head/d=10mm, Pin=1W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 74.71 V/m; Power Drift = 0.27 dB
**Fast SAR: SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.04 W/kg**
Maximum value of SAR (interpolated) = 18.2 W/kg

### System Performance Check 2450 MHz Head/d=10mm, Pin=1W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 74.71 V/m; Power Drift = 0.27 dB
Peak SAR (extrapolated) = 29.2 W/kg
**SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.31 W/kg**
Maximum value of SAR (measured) = 18.3 W/kg




0 dB = 18.2 W/kg = 12.60 dBW/kg

## LTE 7, Left, With holster

Date/Time: 3/11/2020 1:22:10 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10108 - CAB, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK); Frequency: 2535 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2535 MHz; $\sigma$ = 2.058 S/m; $\varepsilon_r$ = 35.923; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 22.5c; Medium Temperature: 22.2C; Comments: ;

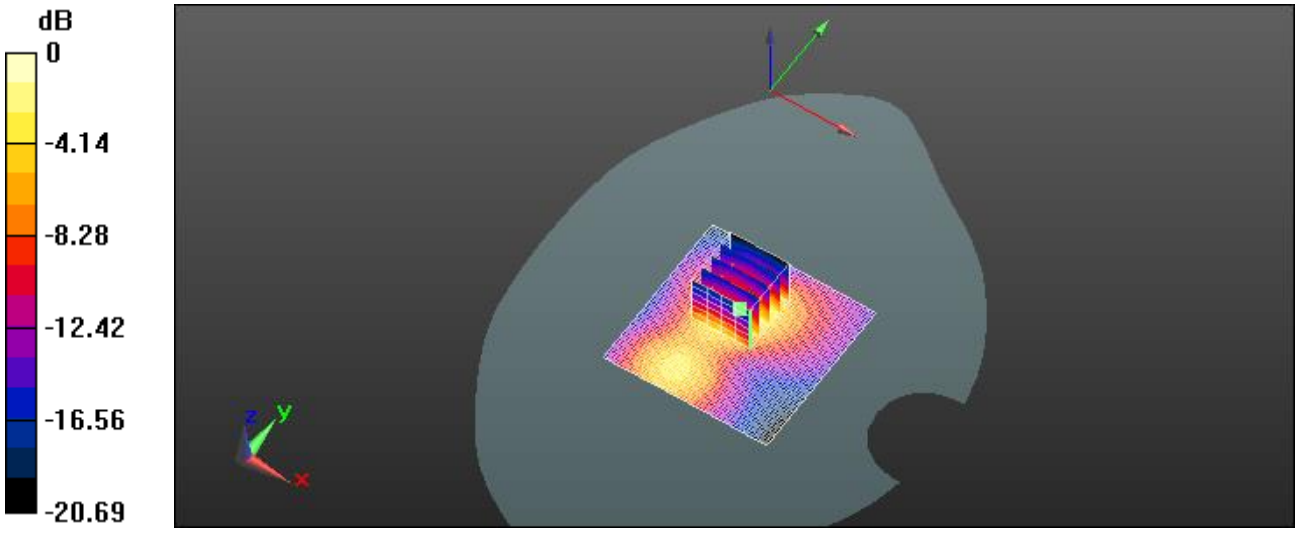
DASY Configuration:

- Probe: ES3DV3 - SN3244; ConvF(4.59, 4.59, 4.59); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

**Product Test LTE7 left holster Head/left side, holster, dist=3.0mm (ES-Probe)/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 22.66 V/m; Power Drift = 0.42 dB
**Fast SAR: SAR(1 g) = 1.7 W/kg; SAR(10 g) = 0.768 W/kg**
Maximum value of SAR (interpolated) = 2.42 W/kg

**Product Test LTE7 left holster Head/left side, holster, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.66 V/m; Power Drift = 0.42 dB
Peak SAR (extrapolated) = 3.79 W/kg
**SAR(1 g) = 1.85 W/kg; SAR(10 g) = 0.865 W/kg**
Maximum value of SAR (measured) = 2.36 W/kg




0 dB = 2.42 W/kg = 3.84 dBW/kg

## LTE 7, Left, No holster

Date/Time: 3/11/2020 4:28:17 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10108 - CAB, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK); Frequency: 2535 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2535 MHz; $\sigma$ = 2.058 S/m; $\varepsilon_r$ = 35.923; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 22.5c; Medium Temperature: 22.2C; Comments: ;

DASY Configuration:

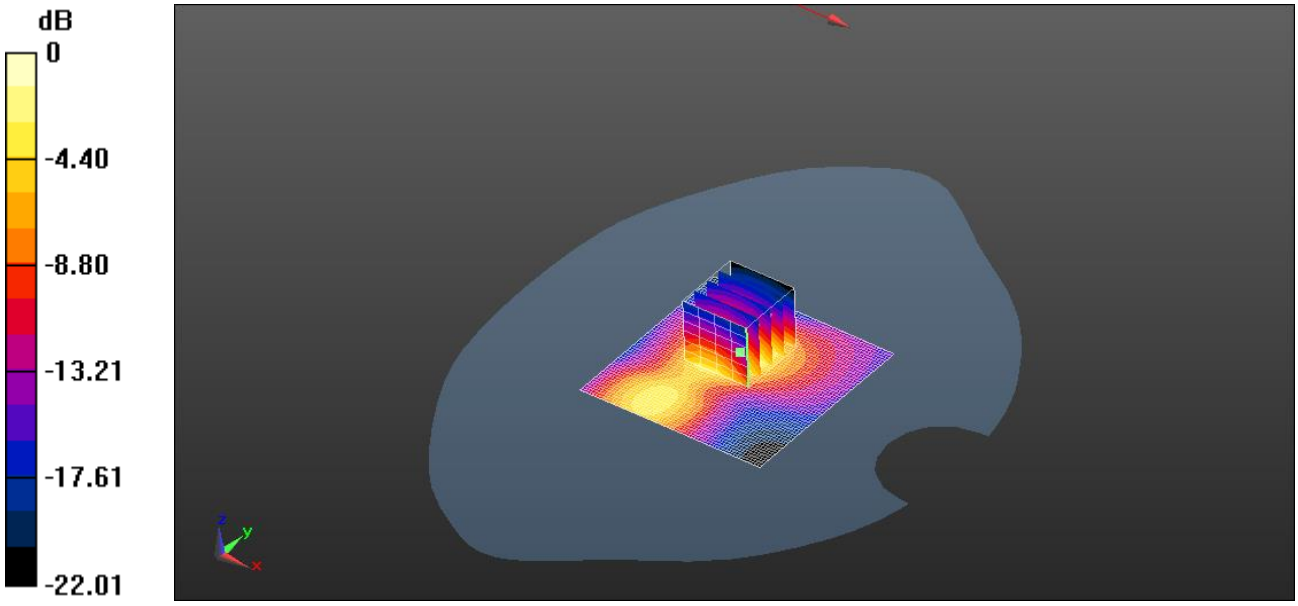
- Probe: ES3DV3 - SN3244; ConvF(4.59, 4.59, 4.59); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

## Product Test LTE7 left no holster Head/dist=3.0mm (ES-Probe)/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 27.40 V/m; Power Drift = 0.33 dB
**Fast SAR: SAR(1 g) = 2.21 W/kg; SAR(10 g) = 0.972 W/kg**
Maximum value of SAR (interpolated) = 2.92 W/kg

## Product Test LTE7 left no holster Head/dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 27.40 V/m; Power Drift = 0.33 dB
Peak SAR (extrapolated) = 5.04 W/kg
**SAR(1 g) = 2.37 W/kg; SAR(10 g) = 1.06 W/kg**
Maximum value of SAR (measured) = 3.09 W/kg




0 dB = 2.92 W/kg = 4.65 dBW/kg

## LTE 7, Top, No holster

Date/Time: 3/11/2020 4:54:59 PM

Test Laboratory: Cetecom Inc., SAR 3 Lab

**DUT: Clarus 40L; Type: TZ Medical; Serial: Not Specified**

Communication System: UID 10108 - CAB, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK); Frequency: 2535 MHz
Medium: HSL2450_Batch 110615-2
Medium parameters used: f = 2535 MHz; $\sigma$ = 2.058 S/m; $\varepsilon_r$ = 35.923; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 22.5c; Medium Temperature: 22.2C; Comments: ;

DASY Configuration:

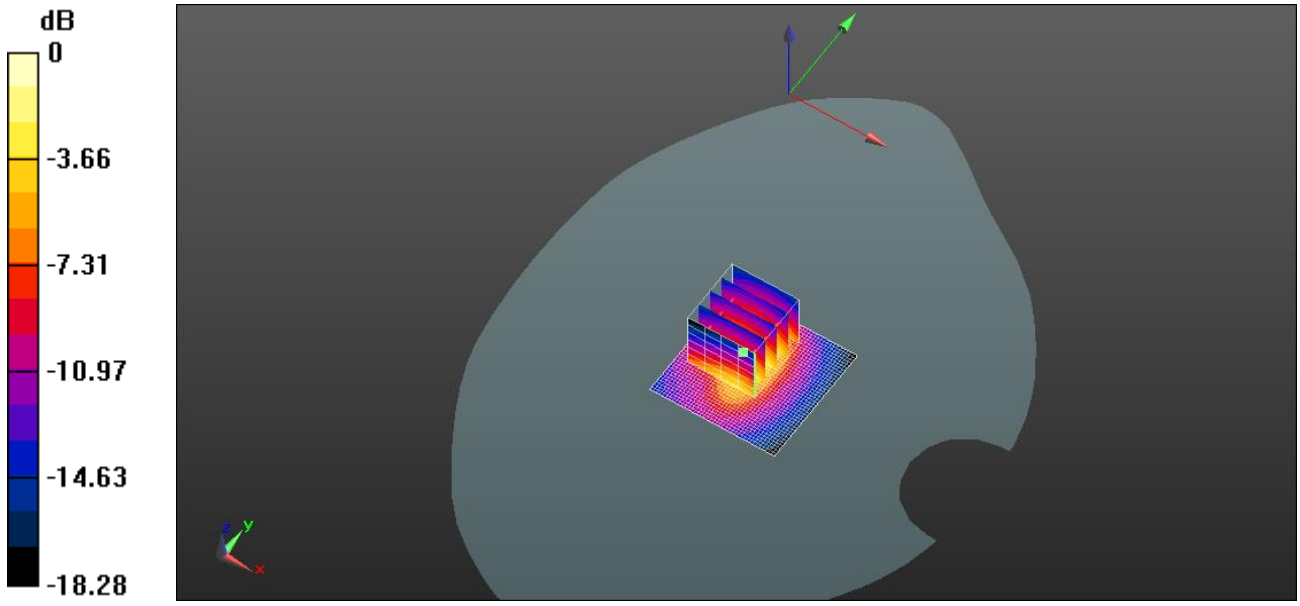
- Probe: ES3DV3 - SN3244; ConvF(4.59, 4.59, 4.59); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM Front; Type: QD000P40CD; Serial: TP-1637
- DASY52 52.8.8(1222);

## Product Test LTE7 top no holster Head/dist=3.0mm (ES-Probe)/Area Scan (41x41x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 36.56 V/m; Power Drift = 0.26 dB
**Fast SAR: SAR(1 g) = 3.4 W/kg; SAR(10 g) = 1.44 W/kg**
Maximum value of SAR (interpolated) = 4.62 W/kg

## Product Test LTE7 top no holster Head/dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 36.56 V/m; Power Drift = 0.26 dB
Peak SAR (extrapolated) = 7.69 W/kg
**SAR(1 g) = 3.47 W/kg; SAR(10 g) = 1.52 W/kg**
Maximum value of SAR (measured) = 4.62 W/kg




0 dB = 4.62 W/kg = 6.65 dBW/kg

## 3/18/2020

## Liquid qualification 1900 MHz and 1750 MHz

## Dipole Verification 1900 MHz

Date/Time: 3/18/2020 1:24:53 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1900 MHz - D1900V2 - SN5d135_April 2016; Type: D1900V2; Serial: D1900V2 - SN:5d135**

Communication System: UID 10000, CW; Frequency: 1900 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1900 MHz; $\sigma$ = 1.457 S/m; $\varepsilon_r$ = 38.817; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: kathy; Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments: ;

DASY Configuration:

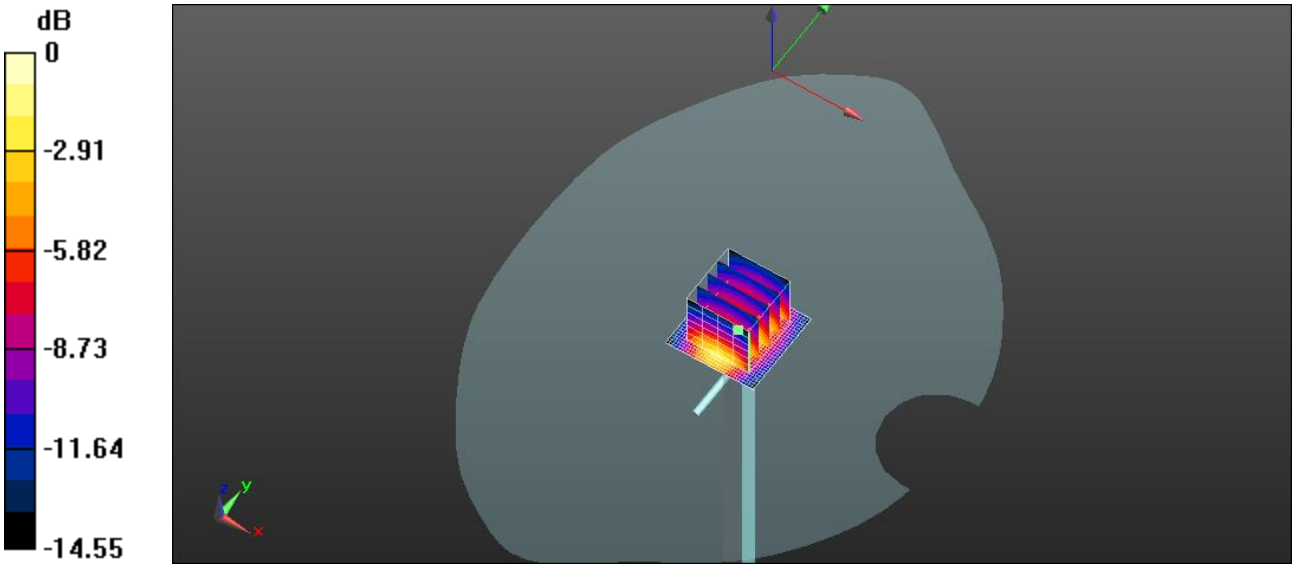
- Probe: ES3DV3 - SN3244; ConvF(5.23, 5.23, 5.23); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 94.08 V/m; Power Drift = 0.03 dB
**Fast SAR: SAR(1 g) = 10.4 W/kg; SAR(10 g) = 5.08 W/kg**
Maximum value of SAR (interpolated) = 13.7 W/kg

### System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.08 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 14.7 W/kg
**SAR(1 g) = 9.01 W/kg; SAR(10 g) = 4.78 W/kg**
Maximum value of SAR (measured) = 11.4 W/kg




0 dB = 13.7 W/kg = 11.38 dBW/kg

## UMTS II, Back, No holster

Date/Time: 3/18/2020 1:57:40 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: TZ Medical; Type: ECG Monitor; Serial: H3R4002010**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.429 S/m; $\varepsilon_r$ = 38.899; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 21.0C; Medium Temperature: 21.0C; Comments: ;

DASY Configuration:

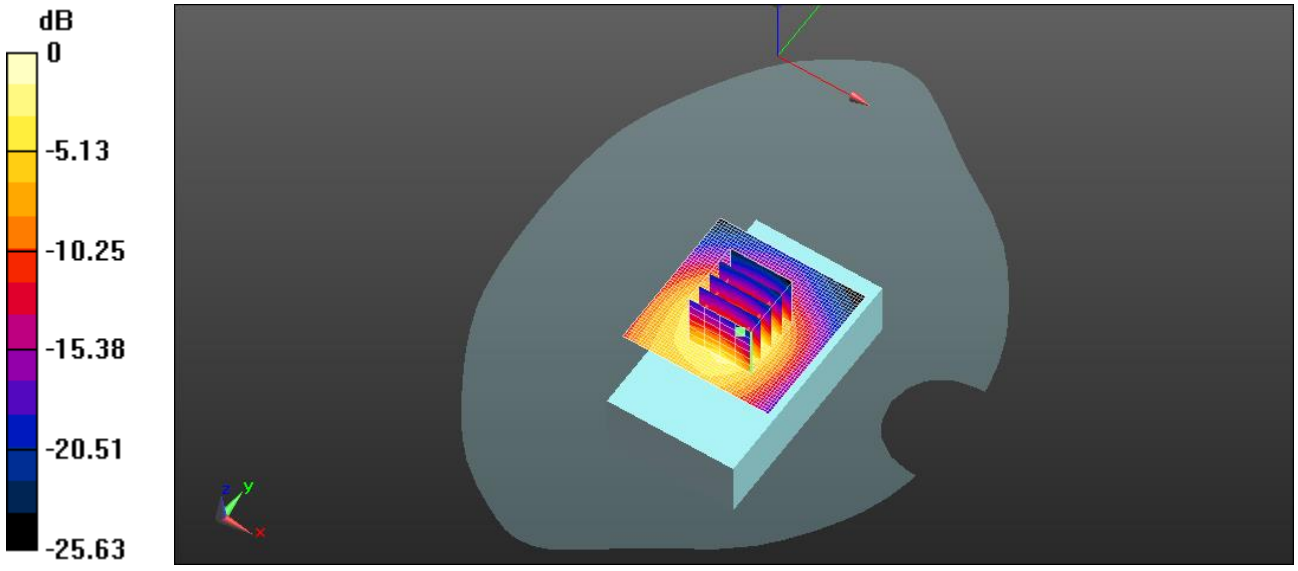
- Probe: ES3DV3 - SN3244; ConvF(5.23, 5.23, 5.23); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test at Frequencies above 1 GHz/Back UMTS II No holster/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 51.96 V/m; Power Drift = -0.11 dB
**Fast SAR: SAR(1 g) = 3.05 W/kg; SAR(10 g) = 1.62 W/kg**
Maximum value of SAR (interpolated) = 3.92 W/kg

## Product Test at Frequencies above 1 GHz/Back UMTS II No holster/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 51.96 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 5.02 W/kg
**SAR(1 g) = 2.99 W/kg; SAR(10 g) = 1.57 W/kg**
Maximum value of SAR (measured) = 3.66 W/kg




0 dB = 3.92 W/kg = 5.93 dBW/kg

## UMTS II, Top, No holster

Date/Time: 3/18/2020 2:18:29 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: TZ Medical; Type: ECG Monitor; Serial: H3R4002010**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.429 S/m; $\varepsilon_r$ = 38.899; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 21.0C; Medium Temperature: 21.0C; Comments: ;

DASY Configuration:

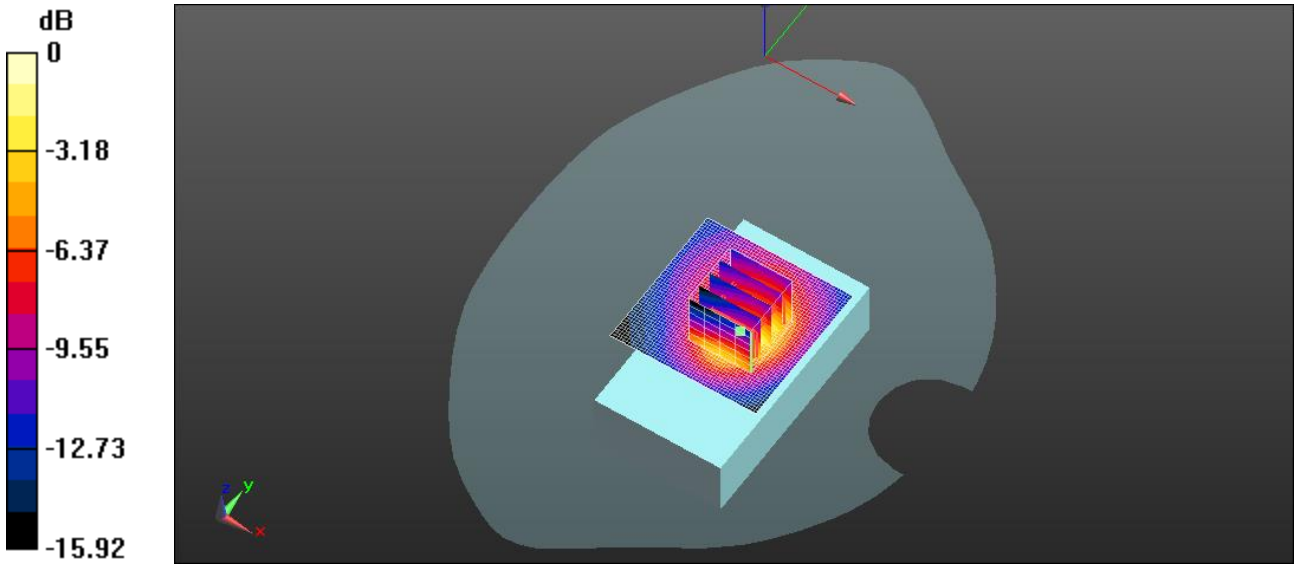
- Probe: ES3DV3 - SN3244; ConvF(5.23, 5.23, 5.23); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test at Frequencies above 1 GHz/Top UMTS II No holster/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 23.88 V/m; Power Drift = -0.73 dB
**Fast SAR: SAR(1 g) = 0.797 W/kg; SAR(10 g) = 0.398 W/kg**
Maximum value of SAR (interpolated) = 1.04 W/kg

## Product Test at Frequencies above 1 GHz/Top UMTS II No holster/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.88 V/m; Power Drift = -0.73 dB
Peak SAR (extrapolated) = 1.53 W/kg
**SAR(1 g) = 0.794 W/kg; SAR(10 g) = 0.388 W/kg**
Maximum value of SAR (measured) = 1.05 W/kg




0 dB = 1.04 W/kg = 0.17 dBW/kg

### UMTS II, Right, No holster

Date/Time: 3/18/2020 2:38:54 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: TZ Medical; Type: ECG Monitor; Serial: H3R4002010**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.429 S/m; $\varepsilon_r$ = 38.899; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 21.0C; Medium Temperature: 21.0C; Comments: ;

DASY Configuration:

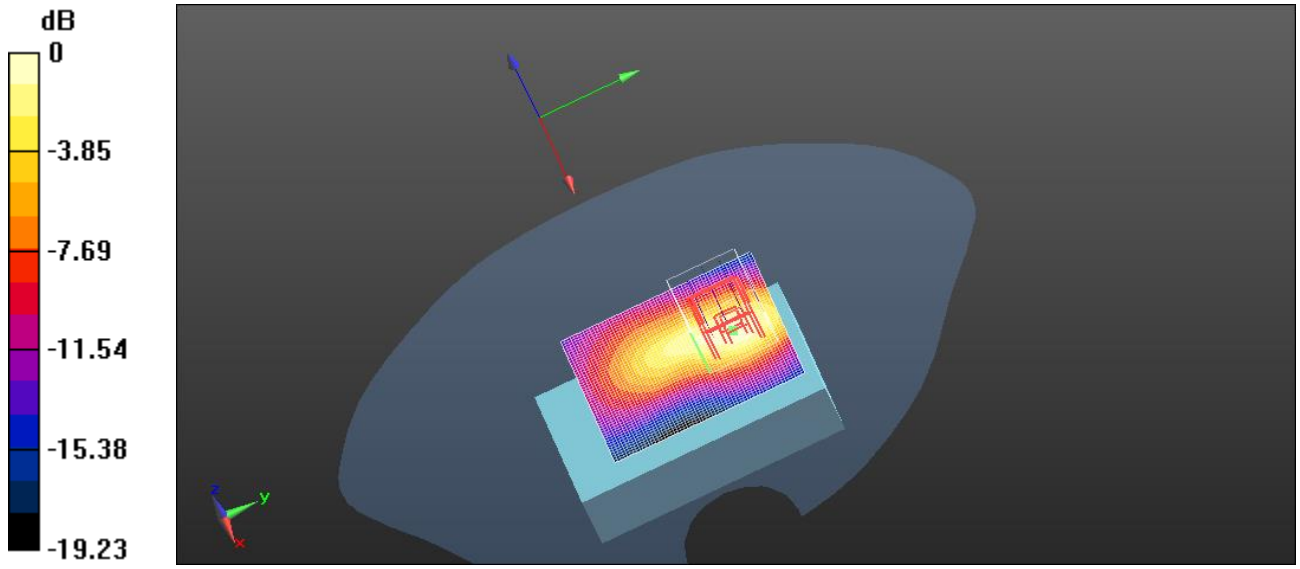
- Probe: ES3DV3 - SN3244; ConvF(5.23, 5.23, 5.23); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test at Frequencies above 1 GHz/Right UMTS II No holster/Area Scan (51x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 19.81 V/m; Power Drift = 0.01 dB
**Fast SAR: SAR(1 g) = 0.879 W/kg; SAR(10 g) = 0.475 W/kg**
Maximum value of SAR (interpolated) = 1.14 W/kg

## Product Test at Frequencies above 1 GHz/Right UMTS II No holster/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.81 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 1.37 W/kg
**SAR(1 g) = 0.893 W/kg; SAR(10 g) = 0.497 W/kg**
Maximum value of SAR (measured) = 1.09 W/kg




0 dB = 1.14 W/kg = 0.56 dBW/kg

## UMTS II, Front, With holster

Date/Time: 3/18/2020 3:02:55 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: TZ Medical; Type: ECG Monitor; Serial: H3R4002010**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.429 S/m; $\varepsilon_r$ = 38.899; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 21.0C; Medium Temperature: 21.0C; Comments: ;

DASY Configuration:

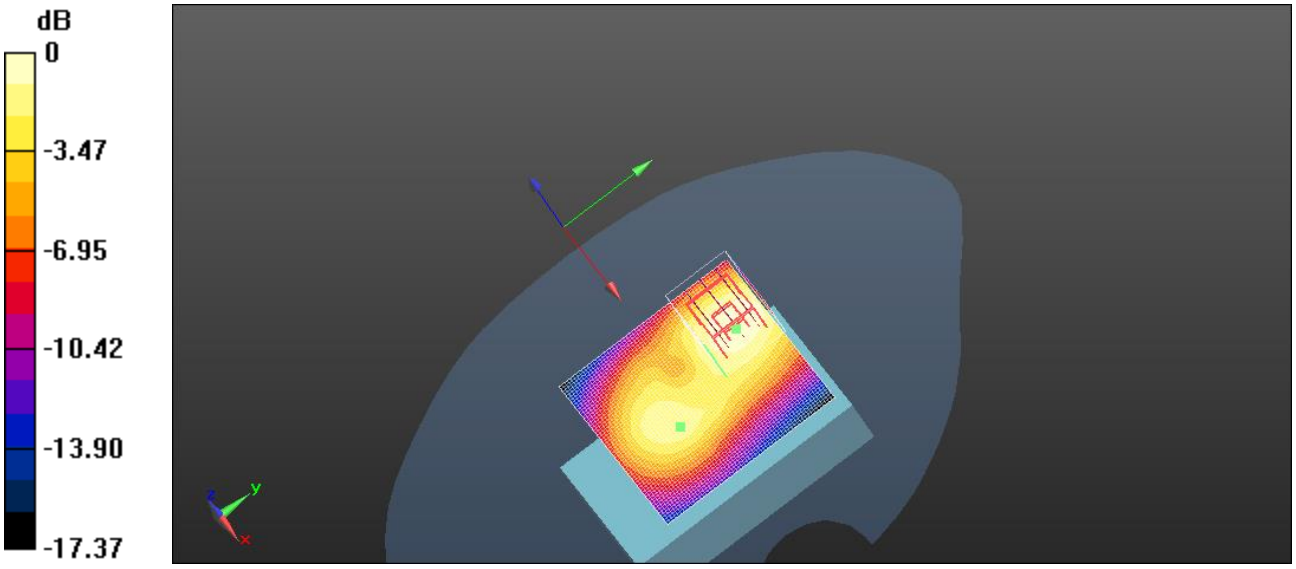
- Probe: ES3DV3 - SN3244; ConvF(5.23, 5.23, 5.23); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test at Frequencies above 1 GHz/Front UMTS II holster/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 19.68 V/m; Power Drift = -0.07 dB
**Fast SAR: SAR(1 g) = 0.638 W/kg; SAR(10 g) = 0.379 W/kg**
Maximum value of SAR (interpolated) = 0.764 W/kg

## Product Test at Frequencies above 1 GHz/Front UMTS II holster/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.68 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 0.930 W/kg
**SAR(1 g) = 0.662 W/kg; SAR(10 g) = 0.411 W/kg**
Maximum value of SAR (measured) = 0.753 W/kg




0 dB = 0.764 W/kg = -1.17 dBW/kg

## LTE 2, Front, With holster

Date/Time: 3/18/2020 3:32:50 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: TZ Medical; Type: ECG Monitor; Serial: H3R4002010**

Communication System: UID 10108 - CAD, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK); Frequency: 1880 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1880 MHz; $\sigma$ = 1.429 S/m; $\varepsilon_r$ = 38.899; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 21.0C; Medium Temperature: 21.0C; Comments: ;

DASY Configuration:

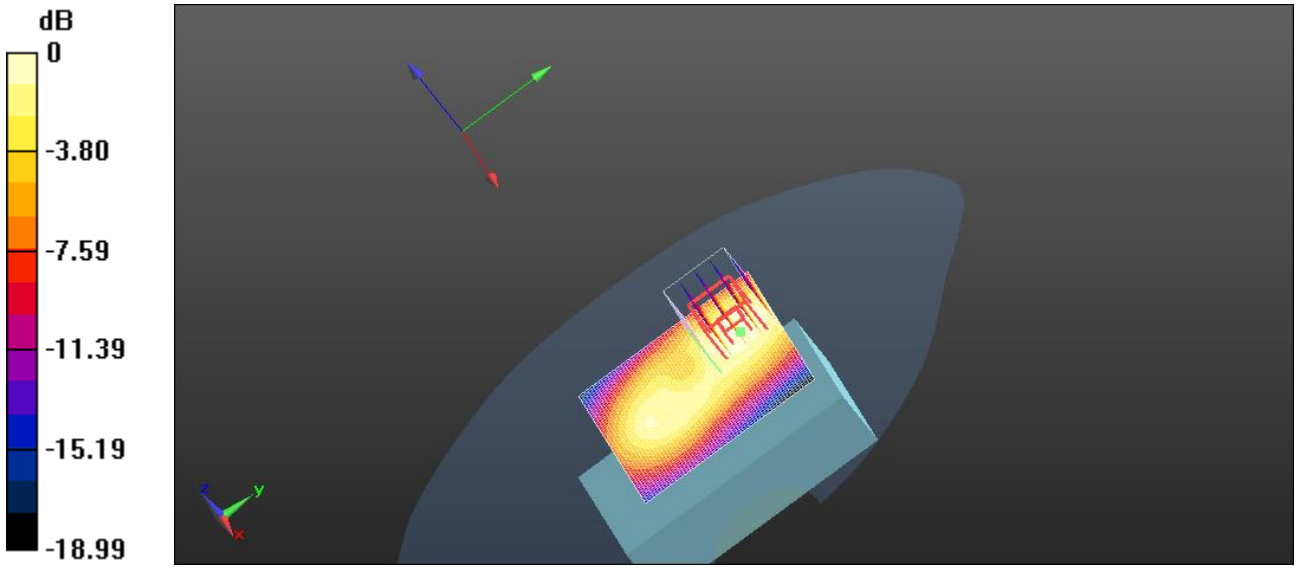
- Probe: ES3DV3 - SN3244; ConvF(5.23, 5.23, 5.23); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

**Product Test at Frequencies above 1 GHz/Front LTE 2 holster/Area Scan (61x61x1):** Interpolated grid: dx=1.500 mm, dy=1.500 mm
Reference Value = 15.57 V/m; Power Drift = 0.08 dB

**Fast SAR: SAR(1 g) = 0.371 W/kg; SAR(10 g) = 0.220 W/kg**
Maximum value of SAR (interpolated) = 0.448 W/kg

## Product Test at Frequencies above 1 GHz/Front LTE 2 holster/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.57 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.542 W/kg
**SAR(1 g) = 0.387 W/kg; SAR(10 g) = 0.240 W/kg**
Maximum value of SAR (measured) = 0.447 W/kg




0 dB = 0.448 W/kg = -3.49 dBW/kg

## Dipole Verification 1750 MHz

Date/Time: 3/18/2020 5:53:24 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: Dipole 1750 MHz D1750V2; Type: D1750V2; Serial: D1750V2 - SN:xxx**

Communication System: UID 0, CW (0); Frequency: 1750 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1750 MHz; $\sigma$ = 1.292 S/m; $\varepsilon_r$ = 39.522; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz; Air Temperature: 21.1C; Medium Temperature: 20.8C; Comments: ;

DASY Configuration:

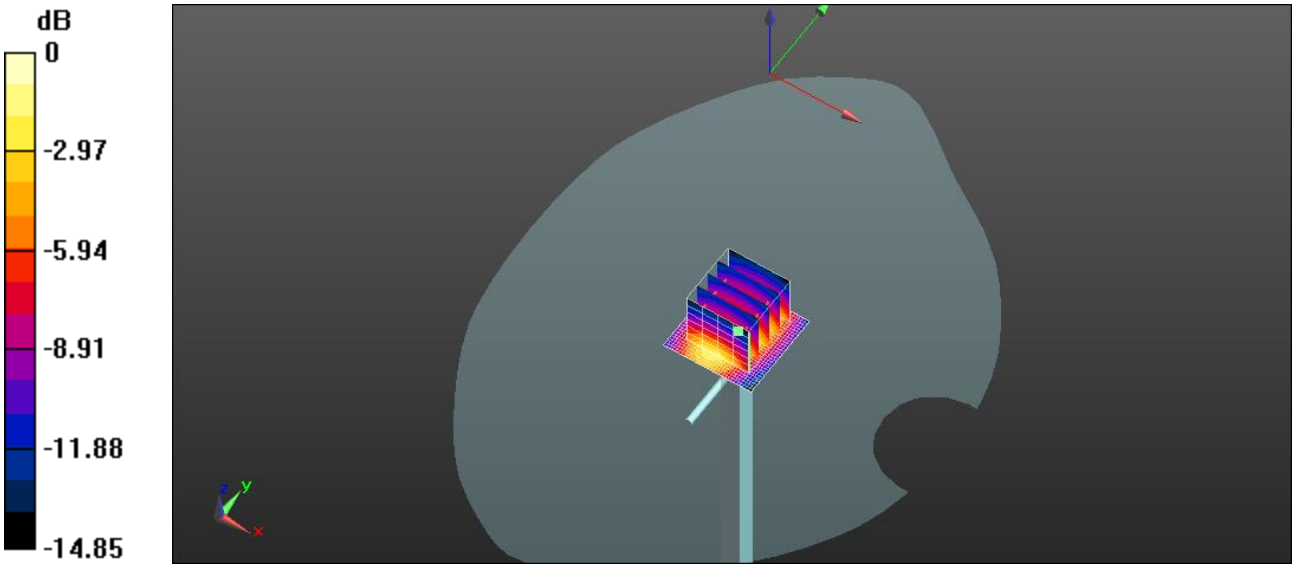
- Probe: ES3DV3 - SN3244; ConvF(5.73, 5.73, 5.73); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Area Scan (31x31x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 94.20 V/m; Power Drift = -0.10 dB
**Fast SAR: SAR(1 g) = 9.48 W/kg; SAR(10 g) = 4.94 W/kg**
Maximum value of SAR (interpolated) = 12.0 W/kg

## System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=.25W, dist=3.0mm (ES-Probe)/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 94.20 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 14.8 W/kg
**SAR(1 g) = 8.38 W/kg; SAR(10 g) = 4.49 W/kg**
Maximum value of SAR (measured) = 10.6 W/kg




0 dB = 12.0 W/kg = 10.81 dBW/kg

## UMTS IV, Front, With holster

Date/Time: 3/18/2020 6:10:58 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: TZ Medical; Type: ECG Monitor; Serial: H3R4002010**

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.6 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used: f = 1733 MHz; $\sigma$ = 1.279 S/m; $\varepsilon_r$ = 39.607; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 21.0C; Medium Temperature: 21.0C; Comments: ;

DASY Configuration:

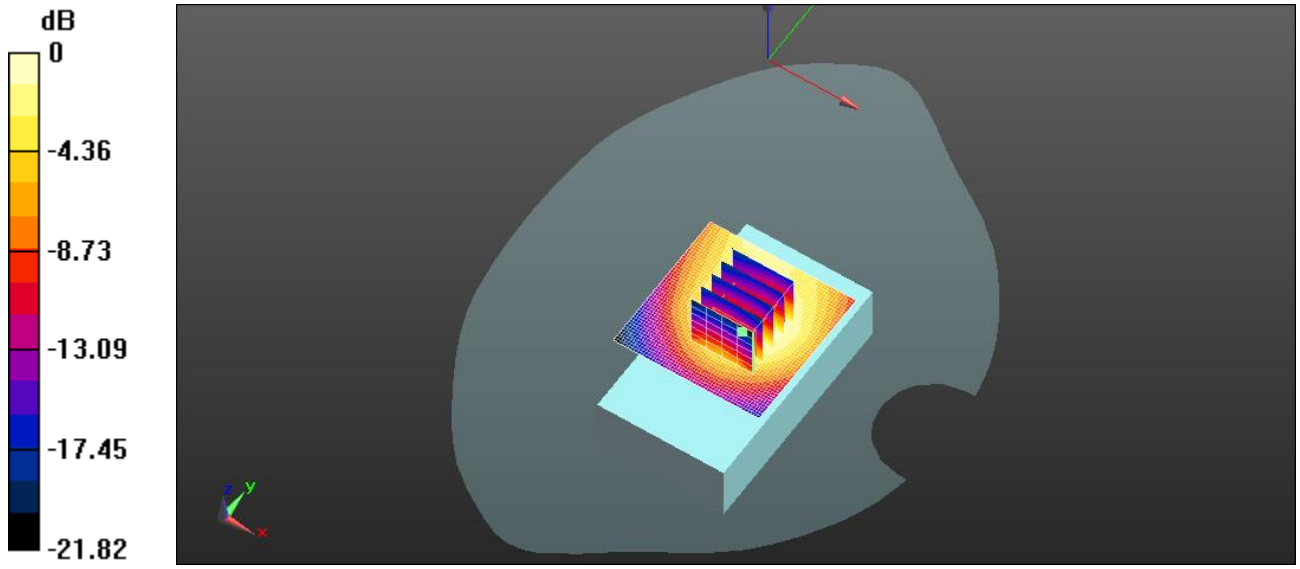
- Probe: ES3DV3 - SN3244; ConvF(5.73, 5.73, 5.73); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

## Product Test at Frequencies above 1 GHz/Front UMTS IV holster/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Reference Value = 28.61 V/m; Power Drift = -0.11 dB
**Fast SAR: SAR(1 g) = 0.784 W/kg; SAR(10 g) = 0.457 W/kg**
Maximum value of SAR (interpolated) = 0.989 W/kg

## Product Test at Frequencies above 1 GHz/Front UMTS IV holster/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 28.61 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 1.39 W/kg
**SAR(1 g) = 0.804 W/kg; SAR(10 g) = 0.456 W/kg**
Maximum value of SAR (measured) = 0.993 W/kg




0 dB = 0.989 W/kg = -0.05 dBW/kg

## LTE 4, Front With holster

Date/Time: 3/18/2020 8:00:09 PM

Test Laboratory: Cetecom Inc. SAR 1 Lab

**DUT: TZ Medical; Type: ECG Monitor; Serial: H3R4002010**

Communication System: UID 10108 - CAD, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK); Frequency: 1732.5 MHz
Medium: HSL1900_Batch 100907-3
Medium parameters used (interpolated): f = 1732.5 MHz; $\sigma$ = 1.279 S/m; $\varepsilon_r$ = 39.613; $\rho$ = 1000 kg/m$^3$
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)
Procedure Notes: Test Technician: Franz Air Temperature: 21.0C; Medium Temperature: 21.0C; Comments: ;

DASY Configuration:

- Probe: ES3DV3 - SN3244; ConvF(5.73, 5.73, 5.73); Calibrated: 7/17/2017;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1266; Calibrated: 5/16/2017
- Phantom: SAM with CRP v4.0; Type: QD000P40CC; Serial: TP:xxxx
- DASY52 52.8.8(1222);

### Product Test at Frequencies above 1 GHz/Front LTE4 holster/Area Scan (51x51x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

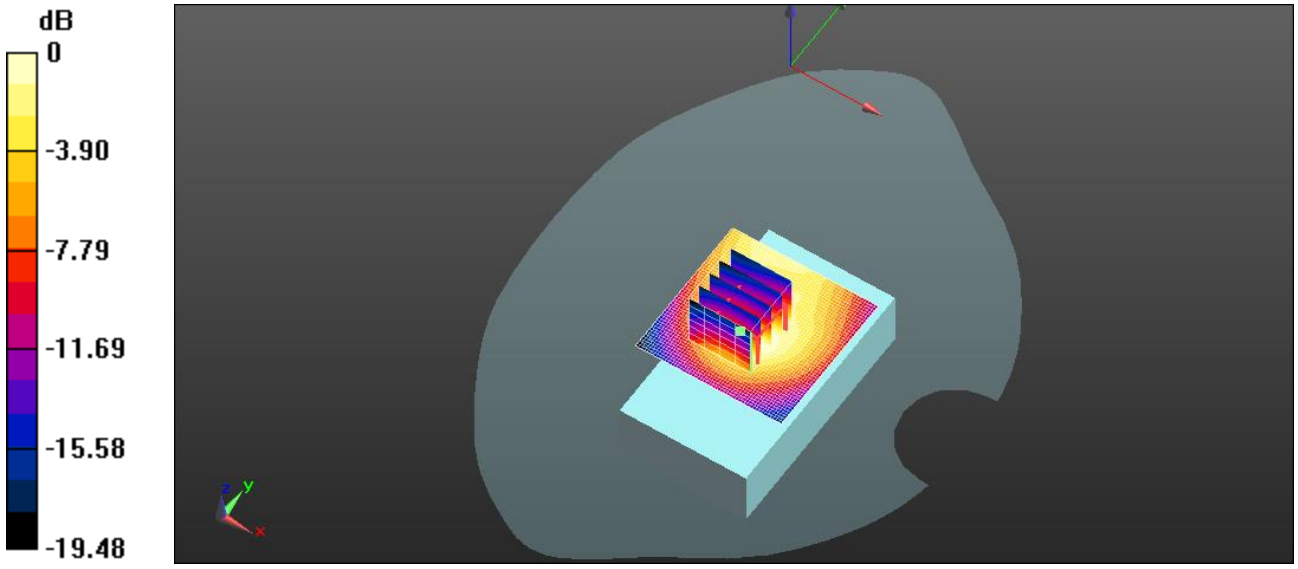
Reference Value = 22.67 V/m; Power Drift = -0.20 dB
**Fast SAR: SAR(1 g) = 0.541 W/kg; SAR(10 g) = 0.300 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 0.663 W/kg

### Product Test at Frequencies above 1 GHz/Front LTE4 holster/Zoom Scan (7x7x7) (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 22.67 V/m; Power Drift = -0.20 dB
Peak SAR (extrapolated) = 0.964 W/kg
**SAR(1 g) = 0.551 W/kg; SAR(10 g) = 0.301 W/kg**

Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 0.673 W/kg




0 dB = 0.663 W/kg = -1.78 dBW/kg