Annex B C1
DASY5 measurement results

1. LTE result

- LTE Band 2 1RB for Body and limbs
- LTE Band 4 1RB for Body and limbs
- LTE Band 5 1RB for Body and limbs
- LTE Band 12 1RB for Body
- LTE Band 12 1RB for limbs

Date: 17.07.2018

Test Laboratory: Cetecom Essen

RosenbergerUS FDD2 Channel 19193 1RB Left side 0mm

DUT: Rosenberger; Type: Terminal; Serial: tbd

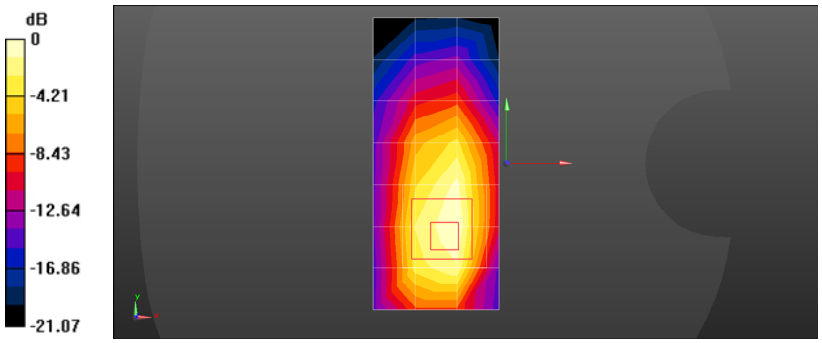
Communication System: UID 0, LTE-FDD BW 1.4MHZ (0); Communication System Band: Band 2, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 1909.3 MHz;
Medium parameters used (interpolated): f = 1909.3 MHz; σ = 1.56 S/m; ε_r = 54.112; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3340; ConvF(4.89, 4.89, 4.89); Calibrated: 14.02.2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: Twin-SAM right V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1640
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Left side/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.509 W/kg

Configuration/Left side/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 12.76 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.945 W/kg
SAR(1 g) = 0.488 W/kg; SAR(10 g) = 0.242 W/kg
Maximum value of SAR (measured) = 0.638 W/kg



0 dB = 0.509 W/kg = -2.93 dBW/kg

Date: 17.07.2018

Test Laboratory: Cetecom Essen

RosenbergerUS FDD4 Channel 19957 1RB Left side 0mm

DUT: Rosenberger; Type: Terminal; Serial: tbd

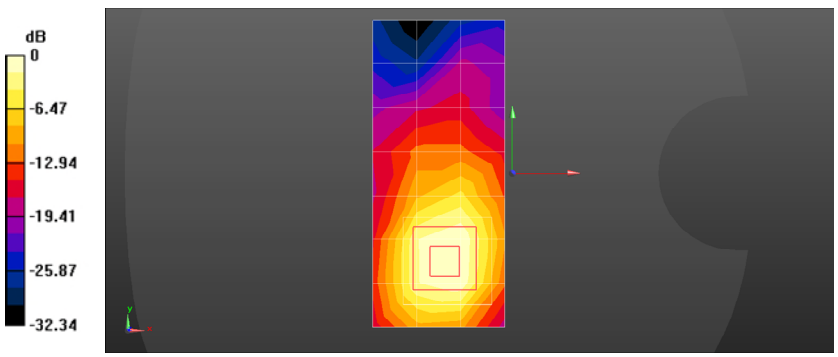
Communication System: UID 0, LTE-FDD BW 1.4MHZ (0); Communication System Band: Band 4, E-UTRA/FDD (1710.0 - 1755.0 MHz); Frequency: 1710 MHz;
Medium parameters used: f = 1710 MHz; σ = 1.425 S/m; ε_r = 54.968; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3340; ConvF(5.03, 5.03, 5.03); Calibrated: 14.02.2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: Twin-SAM right V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1640
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Left side/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.923 W/kg

Configuration/Left side/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 6.187 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 1.75 W/kg
SAR(1 g) = 0.996 W/kg; SAR(10 g) = 0.488 W/kg
Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 0.923 W/kg = -0.35 dBW/kg

Date: 16.07.2018

Test Laboratory: Cetecom Essen

RosenbergerUS FDDV Channel 20525 1RB Back side 0mm

DUT: Rosenberger; Type: Terminal; Serial: tbd

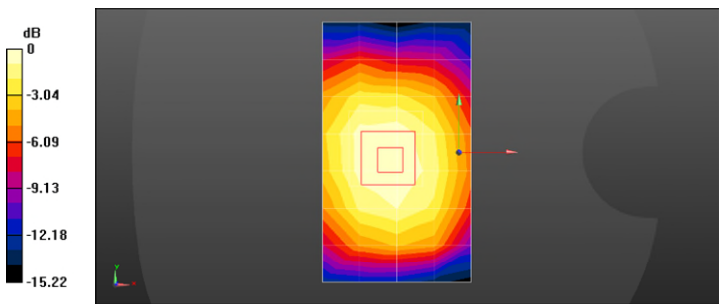
Communication System: UID 0, LTE-FDD BW 1.4MHZ (0); Communication System Band: Band 5, E-UTRA/FDD (824.0 - 849.0 MHz); Frequency: 836.5 MHz;
Medium parameters used (interpolated): f = 836.5 MHz; σ = 0.988 S/m; ε_r = 54.688; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3340; ConvF(6.24, 6.24, 6.24); Calibrated: 14.02.2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: Twin-SAM right V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1640
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Back side/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.117 W/kg

Configuration/Back side/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 10.95 V/m; Power Drift = 0.16 dB
Peak SAR (extrapolated) = 0.149 W/kg
SAR(1 g) = 0.110 W/kg; SAR(10 g) = 0.077 W/kg
Maximum value of SAR (measured) = 0.124 W/kg



0 dB = 0.117 W/kg = -9.31 dBW/kg

Date: 16.07.2018

Test Laboratory: Cetecom Essen

RosenbergerUS FDD12 Channel 23095 1RB Back side 0mm

DUT: Rosenberger; Type: Terminal; Serial: tbd

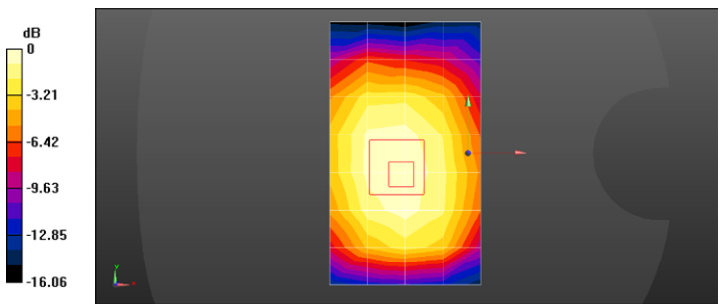
Communication System: UID 0, LTE-FDD BW 1.4MHZ (0); Communication System Band: Band 12, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 707.5 MHz;
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.941 S/m; ε_r = 55.712; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3340; ConvF(6.47, 6.47, 6.47); Calibrated: 14.02.2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: Twin-SAM right V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1640
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Back side/Area Scan (5x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.220 W/kg

Configuration/Back side/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 14.61 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 0.259 W/kg
SAR(1 g) = 0.192 W/kg; SAR(10 g) = 0.136 W/kg
Maximum value of SAR (measured) = 0.219 W/kg



0 dB = 0.220 W/kg = -6.57 dBW/kg

Date: 16.07.2018

Test Laboratory: Cetecom Essen

RosenbergerUS FDD12 Channel 23095 1RB Left side 0mm

DUT: Rosenberger; Type: Terminal; Serial: tbd

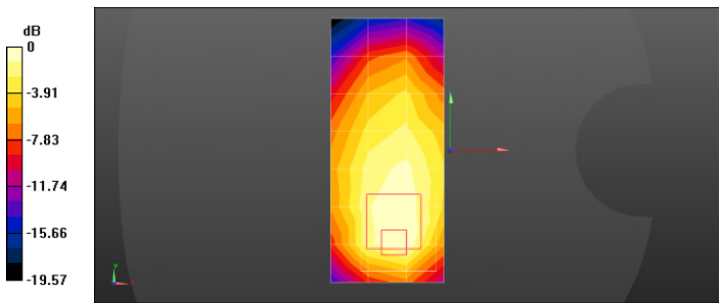
Communication System: UID 0, LTE-FDD BW 1.4MHZ (0); Communication System Band: Band 12, E-UTRA/FDD (1850.0 - 1910.0 MHz); Frequency: 707.5 MHz;
Medium parameters used (interpolated): f = 707.5 MHz; σ = 0.951 S/m; ε_r = 55.959; ρ = 1000 kg/m^3
Phantom section: Flat Section

DASY Configuration:

- Probe: ES3DV3 - SN3340; ConvF(6.47, 6.47, 6.47); Calibrated: 14.02.2018;
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 2.0, 32.0
- Electronics: DAE4 Sn1233; Calibrated: 16.02.2017
- Phantom: Twin-SAM right V5.0 (30deg); Type: QD 000 P40 CD; Serial: 1640
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

Configuration/Left side/Area Scan (4x8x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.224 W/kg

Configuration/Left side/Zoom Scan (7x7x9)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm
Reference Value = 12.48 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 0.546 W/kg
SAR(1 g) = 0.204 W/kg; SAR(10 g) = 0.116 W/kg
Maximum value of SAR (measured) = 0.263 W/kg



0 dB = 0.224 W/kg = -6.51 dBW/kg