

Appendix B Test Plots

Appendix B.1 Test Plots for GSM850 Cellular Ant1

Date/Time: 2024-07-30 16:48:59

Test Laboratory : SGS Korea (Gunpo Laboratory)
File Name: [GSM850 Cellular Ant1_Front_CH190.da53.0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, GSM850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 40.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 836.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/GSM850 Cellular Ant1_Front_CH190/Area Scan (241x251x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0334 W/kg

Body/GSM850 Cellular Ant1_Front_CH190/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.099 V/m; Power Drift = 0.03 dB

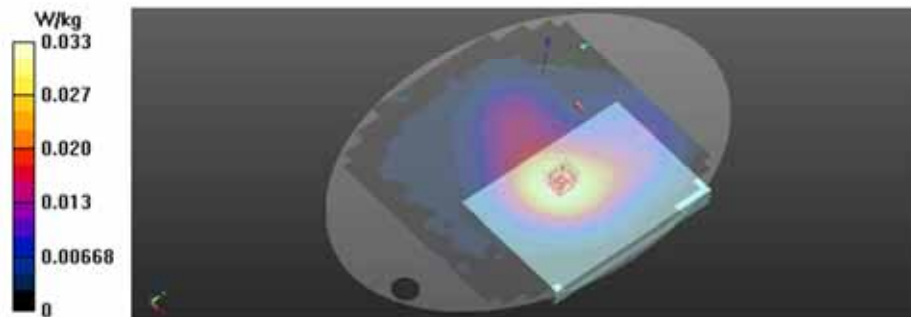
Peak SAR (extrapolated) = 0.0360 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.022 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 77.3%

Maximum value of SAR (measured) = 0.0332 W/kg



Appendix B.2 Test Plots for GSM850 Cellular Ant3

Date/Time: 2024-07-31 13:53:17

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [GSM850 Cellular Ant3_Right Edge_CH190_da53-0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, GSM850 (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 837$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 40.855$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 836.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/GSM850 Cellular Ant3_Right Edge_CH190/Area Scan (171x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0220 W/kg

Body/GSM850 Cellular Ant3_Right Edge_CH190/Zoom Scan (8x11x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 4.525 V/m; Power Drift = -0.09 dB

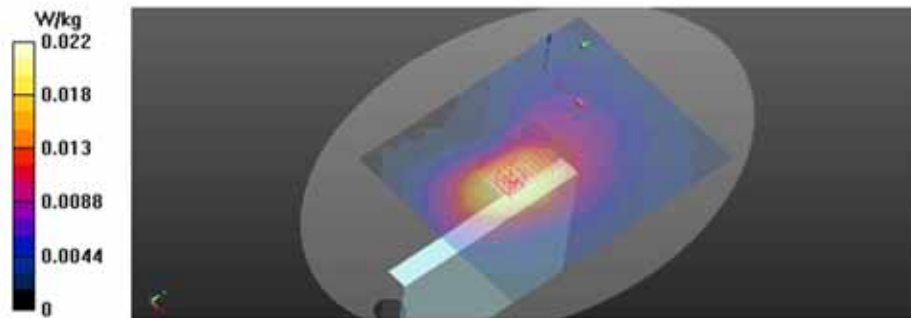
Peak SAR (extrapolated) = 0.0240 W/kg

SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.014 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 75%

Maximum value of SAR (measured) = 0.0219 W/kg



Appendix B.3 Test Plots for GPRS850 Cellular Ant1

Date/Time: 2024-07-30 13:24:03

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [GPRS850 Cellular Ant1_Front_CH190_2Tx.da53:0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, GPRS850 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.1505

Medium parameters used: $f = 837$ MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 40.556$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 836.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/GPRS850 Cellular Ant1_Front_CH190_2Tx/Area Scan (241x251x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0612 W/kg

Body/GPRS850 Cellular Ant1_Front_CH190_2Tx/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.096 V/m; Power Drift = -0.15 dB

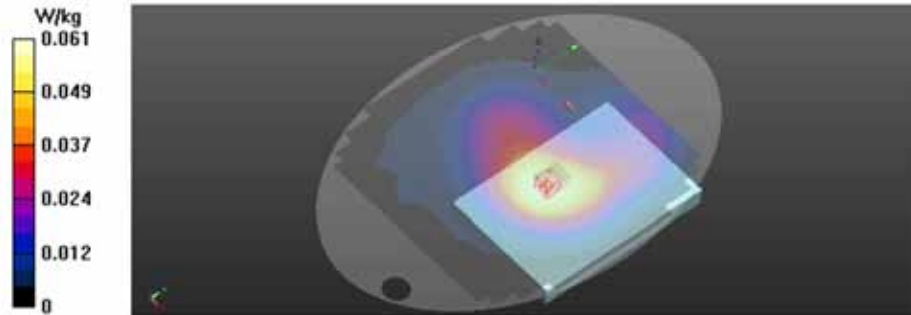
Peak SAR (extrapolated) = 0.0660 W/kg

SAR(1 g) = 0.051 W/kg; SAR(10 g) = 0.040 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 76.7%

Maximum value of SAR (measured) = 0.0613 W/kg



Appendix B.4 Test Plots for GPRS850 Cellular Ant3

Date/Time: 2024-07-31 10:27:58

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [GPRS850 Cellular Ant3_Front_CH190_2Tx.da53:0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, GPRS850 2TX (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.1505

Medium parameters used: $f = 837$ MHz; $\sigma = 0.905$ S/m; $\epsilon_r = 40.855$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 836.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/GPRS850 Cellular Ant3_Front_CH190_2Tx/Area Scan (211x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0501 W/kg

Body/GPRS850 Cellular Ant3_Front_CH190_2Tx/Zoom Scan (5x5x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.569 V/m; Power Drift = -0.07 dB

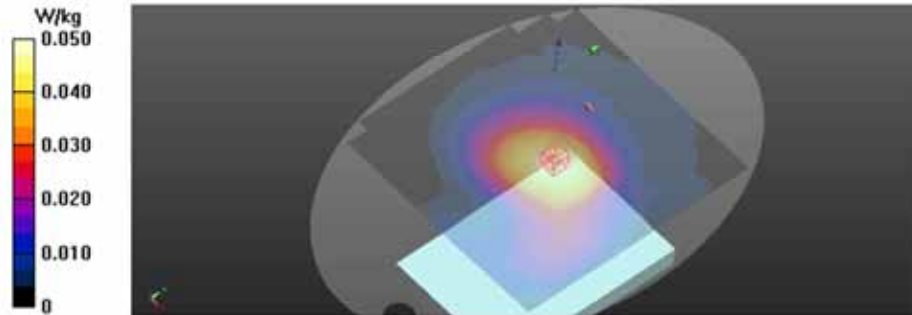
Peak SAR (extrapolated) = 0.0540 W/kg

SAR(1 g) = 0.042 W/kg; SAR(10 g) = 0.033 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 77.4%

Maximum value of SAR (measured) = 0.0498 W/kg



Appendix B.5 Test Plots for GSM1900 Cellular Ant1

Date/Time: 2024-07-30 10:26:57

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [GSM1900 Cellular Ant1_Right Edge_CH661_da53.0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, GSM1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 38.706$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1880 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/GSM1900 Cellular Ant1_Right Edge_CH661/Area Scan (181x251x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0777 W/kg

Body/GSM1900 Cellular Ant1_Right Edge_CH661/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.519 V/m; Power Drift = 0.10 dB

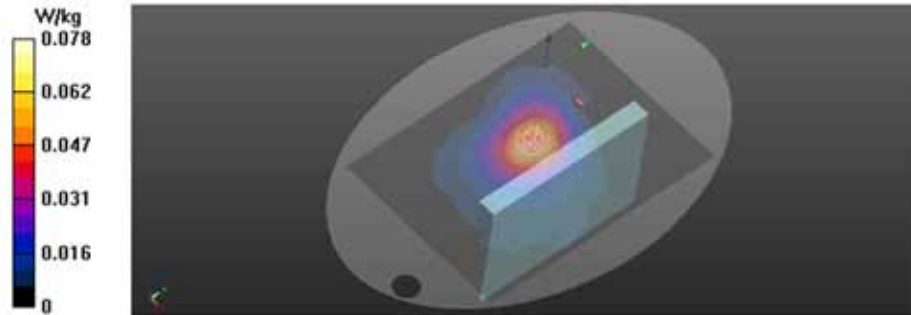
Peak SAR (extrapolated) = 0.0900 W/kg

SAR(1 g) = 0.059 W/kg; SAR(10 g) = 0.040 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 64.6%

Maximum value of SAR (measured) = 0.0789 W/kg



Appendix B.6 Test Plots for GSM1900 Cellular Ant3

Date/Time: 2024-07-31 14:50:37

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [GSM1900 Cellular Ant3_Right Edge_CH661_da53.0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, GSM1900 (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 38.454$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1880 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/GSM1900 Cellular Ant3_Right Edge_CH661/Area Scan (171x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0692 W/kg

Body/GSM1900 Cellular Ant3_Right Edge_CH661/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.962 V/m; Power Drift = -0.01 dB

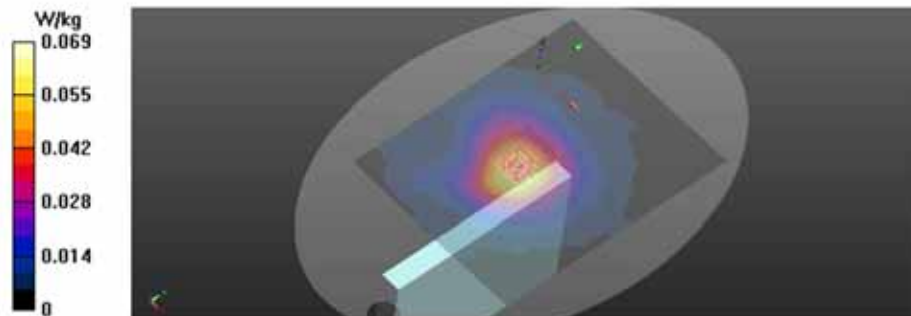
Peak SAR (extrapolated) = 0.0780 W/kg

SAR(1 g) = 0.053 W/kg; SAR(10 g) = 0.036 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 66.8%

Maximum value of SAR (measured) = 0.0693 W/kg



Appendix B.7 Test Plots for GPRS1900 Cellular Ant1

Date/Time: 2024-07-30 11:28:28

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [GPRS1900 Cellular Ant1_Right Edge_CH661_2Tx_da53-0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, GPRS1900 2TX (0); Frequency: 1880 MHz; Duty Cycle: 1:4.1505

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.45$ S/m; $\epsilon_r = 38.706$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1880 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/GPRS1900 Cellular Ant1_Right Edge_CH661_2Tx/Area Scan (181x251x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.123 W/kg

Body/GPRS1900 Cellular Ant1_Right Edge_CH661_2Tx/Zoom Scan (8x8x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 8.217 V/m; Power Drift = -0.03 dB

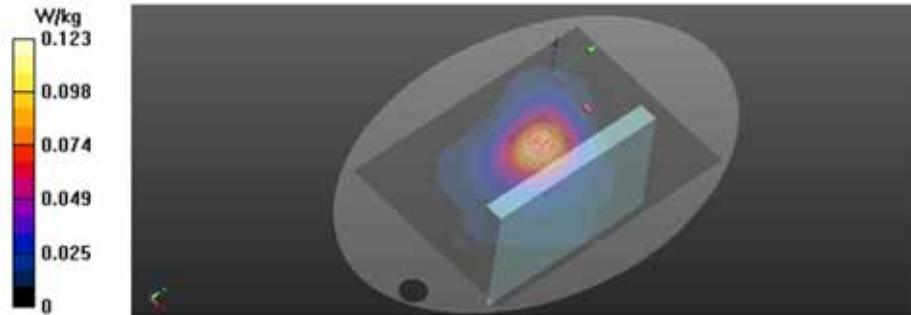
Peak SAR (extrapolated) = 0.139 W/kg

SAR(1 g) = 0.093 W/kg; SAR(10 g) = 0.063 W/kg

Smallest distance from peaks to all points 3 dB below = 37.2 mm

Ratio of SAR at M2 to SAR at M1 = 65.1%

Maximum value of SAR (measured) = 0.123 W/kg



Appendix B.8 Test Plots for GPRS1900 Cellular Ant3

Date/Time: 2024-07-31 12:14:19

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [GPRS1900 Cellular Ant3_Right Edge_CH661_2Tx_da53-0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, GPRS1900 2TX (0); Frequency: 1880 MHz; Duty Cycle: 1:4.1505

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 38.454$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1880 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/GPRS1900 Cellular Ant3_Right Edge_CH661_2Tx/Area Scan (171x221x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.118 W/kg

Body/GPRS1900 Cellular Ant3_Right Edge_CH661_2Tx/Zoom Scan (6x6x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.249 V/m; Power Drift = -0.04 dB

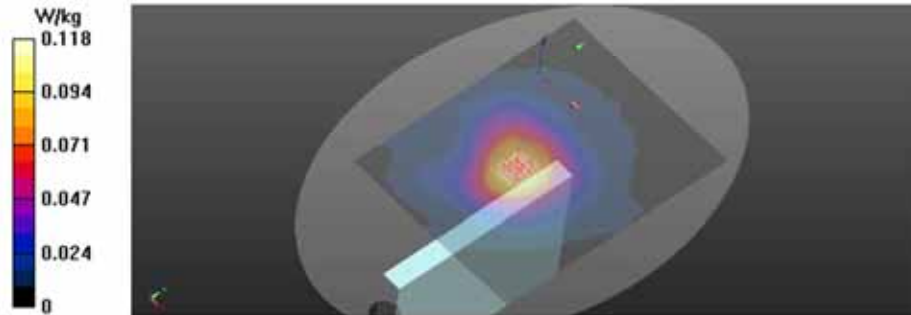
Peak SAR (extrapolated) = 0.131 W/kg

SAR(1 g) = 0.088 W/kg; SAR(10 g) = 0.060 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 65.6%

Maximum value of SAR (measured) = 0.116 W/kg



Appendix B.9 Test Plots for WCDMA2 Cellular Ant1

Date/Time: 2024-07-29 17:12:43

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA2 Cellular Ant1 Right Edge_CH9400.da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, WCDMA2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.448$ S/m; $\epsilon_r = 38.851$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1880 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA2 Cellular Ant1_Right Edge_CH9400/Area Scan (181x251x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.209 W/kg

Body/WCDMA2 Cellular Ant1_Right Edge_CH9400/Zoom Scan (7x9x7)/Cube 0: Measurement grid:

dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.54 V/m; Power Drift = -0.04 dB

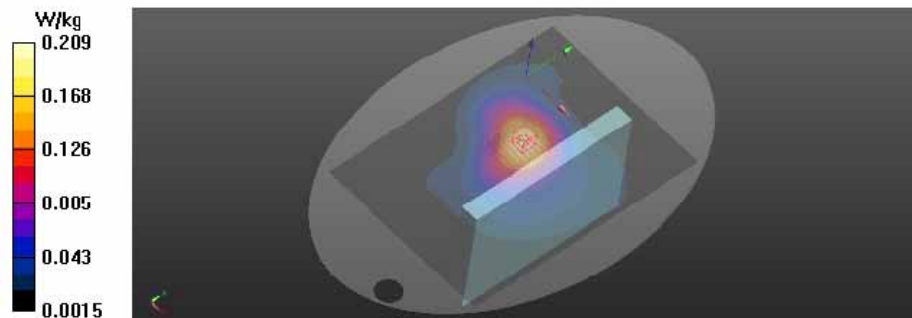
Peak SAR (extrapolated) = 0.239 W/kg

SAR(1 g) = 0.156 W/kg; SAR(10 g) = 0.104 W/kg

Smallest distance from peaks to all points 3 dB below = 39.5 mm

Ratio of SAR at M2 to SAR at M1 = 64.1%

Maximum value of SAR (measured) = 0.209 W/kg



Appendix B.10 Test Plots for WCDMA2 Cellular Ant3

Date/Time: 2024-08-01 11:43:29

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA2 Cellular Ant3_Right Edge_CH9400_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, WCDMA2 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.447$ S/m; $\epsilon_r = 38.802$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1880 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA2 Cellular Ant3_Right Edge_CH9400/Area Scan (171x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0884 W/kg

Body/WCDMA2 Cellular Ant3_Right Edge_CH9400/Zoom Scan (6x11x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.848 V/m; Power Drift = 0.03 dB

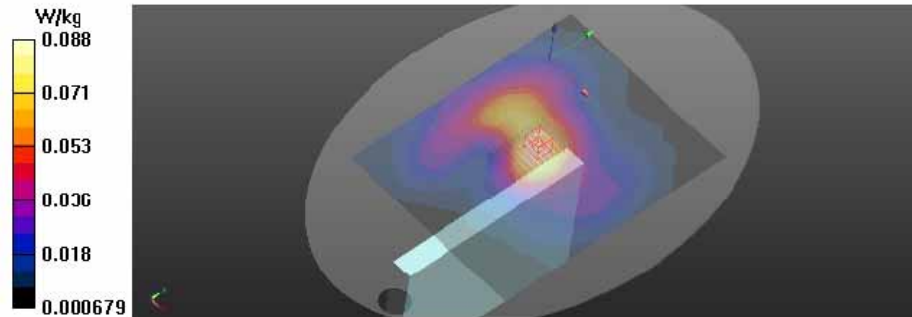
Peak SAR (extrapolated) = 0.0980 W/kg

SAR(1 g) = 0.065 W/kg; SAR(10 g) = 0.044 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 65.4%

Maximum value of SAR (measured) = 0.0863 W/kg



Appendix B.11 Test Plots for WCDMA4 Cellular Ant1

Date/Time: 2024-07-25 19:31:41

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA4 Cellular Ant1_Right Edge_CH1413.da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, WCDMA 4 (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733 \text{ MHz}$; $\sigma = 1.385 \text{ S/m}$; $\epsilon_r = 40.311$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1732.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA4 Cellular Ant1_Right Edge_CH1413/Area Scan (181x251x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.160 W/kg

Body/WCDMA4 Cellular Ant1_Right Edge_CH1413/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.251 V/m ; Power Drift = 0.12 dB

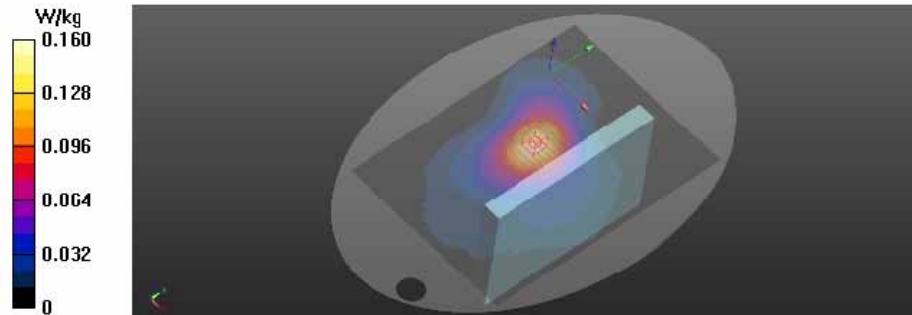
Peak SAR (extrapolated) = 0.180 W/kg

SAR(1 g) = 0.122 W/kg ; SAR(10 g) = 0.084 W/kg

Smallest distance from peaks to all points 3 dB below = 38.5 mm

Ratio of SAR at M2 to SAR at M1 = 66.8%

Maximum value of SAR (measured) = 0.158 W/kg



Appendix B.12 Test Plots for WCDMA4 Cellular Ant3

Date/Time: 2024-08-02 08:47:57

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA4 Cellular Ant3_Right Edge_CH1413.da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, WCDMA 4 (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733 \text{ MHz}$; $\sigma = 1.414 \text{ S/m}$; $\epsilon_r = 39.484$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1732.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA4 Cellular Ant3_Right Edge_CH1413/Area Scan (171x221x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.159 W/kg

Body/WCDMA4 Cellular Ant3_Right Edge_CH1413/Zoom Scan (6x9x7)/Cube 0: Measurement grid:

$dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.77 V/m; Power Drift = 0.03 dB

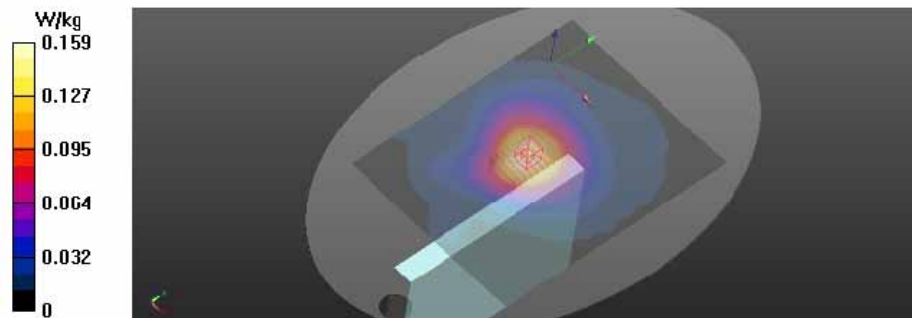
Peak SAR (extrapolated) = 0.182 W/kg

SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.083 W/kg

Smallest distance from peaks to all points 3 dB below = 44.5 mm

Ratio of SAR at M2 to SAR at M1 = 66%

Maximum value of SAR (measured) = 0.160 W/kg



Appendix B.13 Test Plots for WCDMA5 Cellular Ant1

Date/Time: 2024-07-26 20:10:04

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA5 Cellular Ant1 Right Edge_CH4183.da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, WCDMA5 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 40.723$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 836.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA5 Cellular Ant1_Right Edge_CH4183/Area Scan (181x251x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0475 W/kg

Body/WCDMA5 Cellular Ant1_Right Edge_CH4183/Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.245 V/m; Power Drift = 0.16 dB

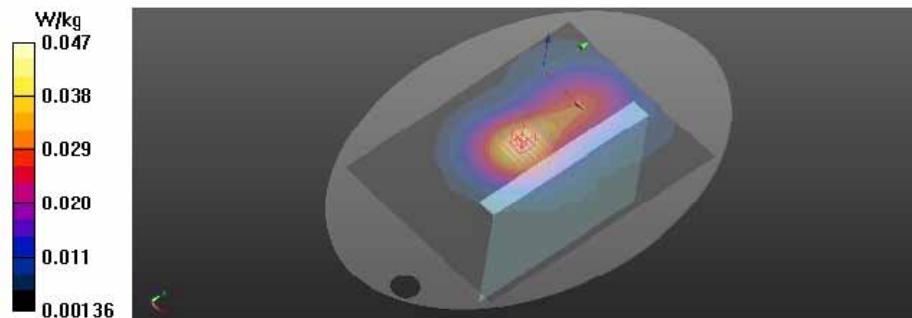
Peak SAR (extrapolated) = 0.0520 W/kg

SAR(1 g) = 0.040 W/kg; SAR(10 g) = 0.030 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 76.1%

Maximum value of SAR (measured) = 0.0478 W/kg



Appendix B.14 Test Plots for WCDMA5 Cellular Ant3

Date/Time: 2024-08-01 13:30:05

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [WCDMA5 Cellular Ant3_Front_CH4183_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, WCDMA5 (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.925$ S/m; $\epsilon_r = 39.99$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 836.6 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/WCDMA5 Cellular Ant3_Front_CH4183/Area Scan (211x221x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0377 W/kg

Body/WCDMA5 Cellular Ant3_Front_CH4183/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6 641 V/m; Power Drift = -0.16 dB

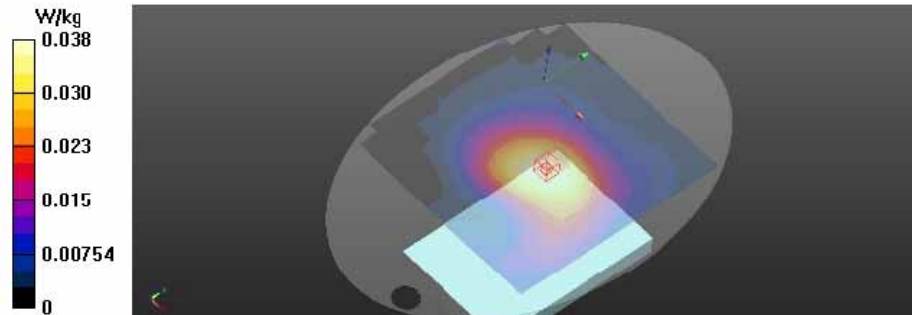
Peak SAR (extrapolated) = 0.0410 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.025 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 76.9%

Maximum value of SAR (measured) = 0.0379 W/kg



Appendix B.15 Test Plots for LTE4 Cellular Ant1

Date/Time: 2024-07-25 09:24:46

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE4 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH20175.da53-0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733 \text{ MHz}$; $\sigma = 1.385 \text{ S/m}$; $\epsilon_r = 40.311$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1732.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE4 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH20175/Area Scan (181x251x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.122 W/kg
Body/LTE4 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH20175/Zoom Scan (8x9x7)/Cube 0:

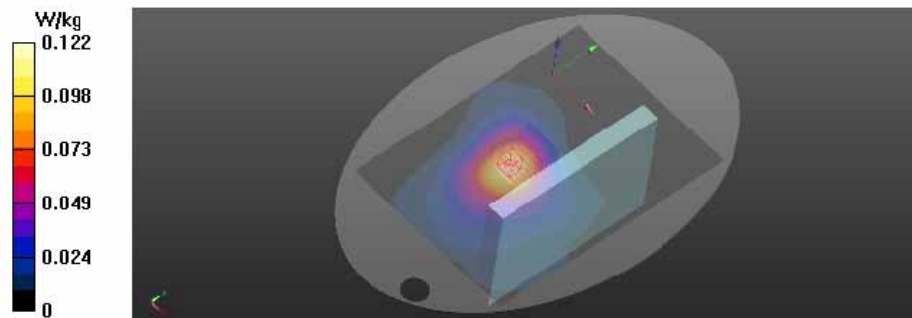
Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.840 V/m ; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.139 W/kg
SAR(1 g) = 0.094 W/kg ; SAR(10 g) = 0.065 W/kg

Smallest distance from peaks to all points 3 dB below = 37.8 mm

Ratio of SAR at M2 to SAR at M1 = 67.9%

Maximum value of SAR (measured) = 0.123 W/kg


Appendix B.16 Test Plots for LTE4 Cellular Ant3

Date/Time: 2024-08-02 10:31:36

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE4 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH20175.da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 4 (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1733 \text{ MHz}$; $\sigma = 1.414 \text{ S/m}$; $\epsilon_r = 39.484$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.64, 8.22, 8.75) @ 1732.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE4 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH20175/Area Scan (171x221x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.106 W/kg

Body/LTE4 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH20175/Zoom Scan (6x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 8.678 V/m ; Power Drift = 0.01 dB

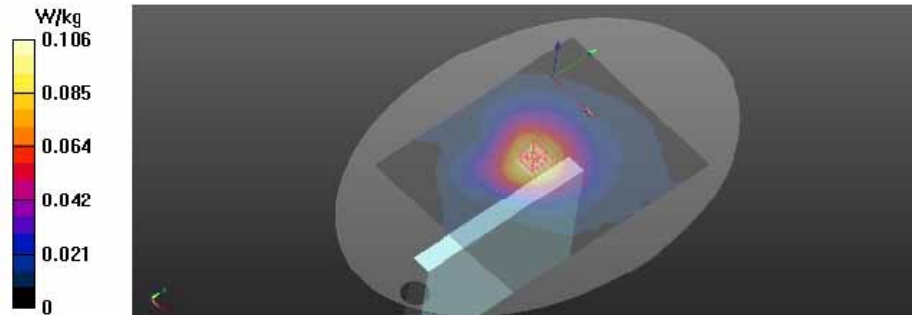
Peak SAR (extrapolated) = 0.119 W/kg

SAR(1 g) = 0.079 W/kg ; SAR(10 g) = 0.055 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 65.5%

Maximum value of SAR (measured) = 0.104 W/kg



Appendix B.17 Test Plots for LTE7 Cellular Ant1

Date/Time: 2024-07-25 22:41:41

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE7 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH21100.da53-0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.912$ S/m; $\epsilon_r = 38.897$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2535 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE7 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH21100/Area Scan (231x311x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0461 W/kg

Body/LTE7 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH21100/Zoom Scan (14x21x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.286 V/m; Power Drift = 0.12 dB

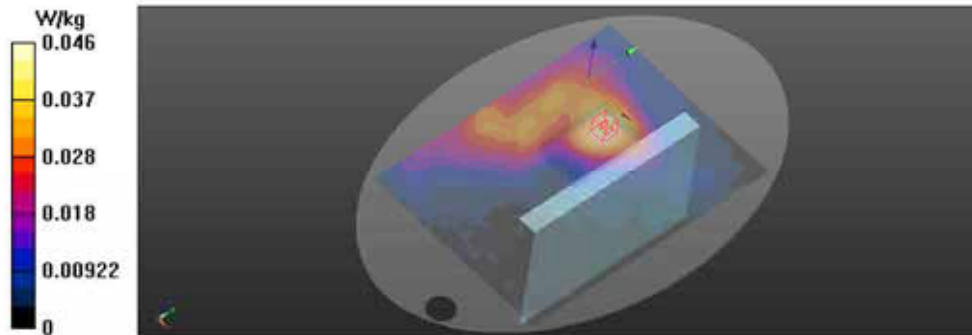
Peak SAR (extrapolated) = 0.0540 W/kg

SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 0.0456 W/kg



Appendix B.18 Test Plots for LTE7 Cellular Ant3

Date/Time: 2024-08-05 19:18:28

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE7 Cellular Ant3 Right Edge 20MHz 1@0 QPSK CH21100.da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 7 (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 1.904 \text{ S/m}$; $\epsilon_r = 38.125$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2535 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE7 Cellular Ant3 Right Edge 20MHz 1@0 QPSK CH21100/Area Scan (211x281x1):

Interpolated grid: $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0268 W/kg

Body/LTE7 Cellular Ant3 Right Edge 20MHz 1@0 QPSK CH21100/Zoom Scan (12x16x7)/Cube

0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.239 V/m; Power Drift = -0.10 dB

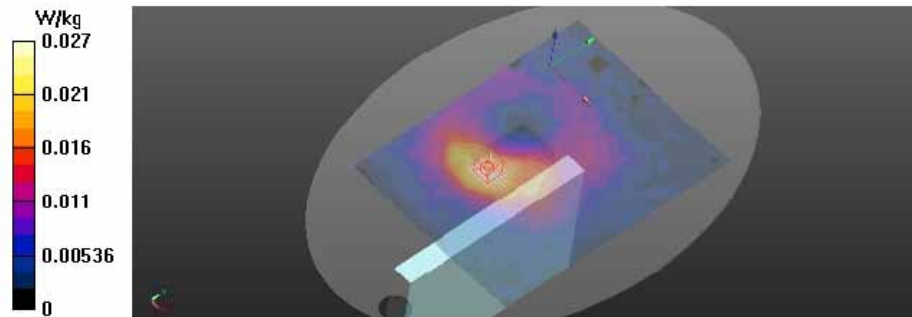
Peak SAR (extrapolated) = 0.0320 W/kg

SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below. Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 0.0268 W/kg



Appendix B.19 Test Plots for LTE12 Cellular Ant1

Date/Time: 2024-07-29 15:52:39

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE12 Cellular Ant1_Right Edge_10MHz_1@0_QPSK_CH23095_da53-0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5 \text{ MHz}$; $\sigma = 0.87 \text{ S/m}$; $\epsilon_r = 41.457$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 707.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE12 Cellular Ant1_Right Edge_10MHz_1@0_QPSK_CH23095/Area Scan (181x251x1):

Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0206 W/kg

Body/LTE12 Cellular Ant1_Right Edge_10MHz_1@0_QPSK_CH23095/Zoom Scan (7x5x7)/Cube 0:

Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.659 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0220 W/kg

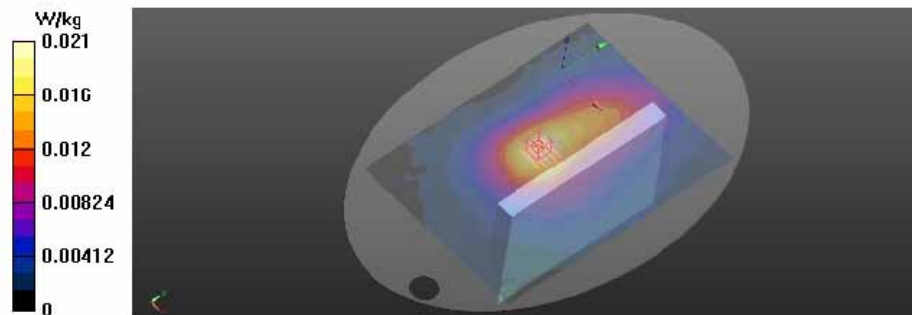
SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.013 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 72.6%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0202 W/kg



Appendix B.20 Test Plots for LTE12 Cellular Ant3

Date/Time: 2024-08-01 18:28:14

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE12 Cellular Ant3_Front_10MHz_1@0_QPSK_CH23095_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 12 (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 707.5$ MHz; $\sigma = 0.879$ S/m; $\epsilon_r = 41.427$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(9.57, 9.37, 10.19) @ 707.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE12 Cellular Ant3_Front_10MHz_1@0_QPSK_CH23095/Area Scan (181x201x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0136 W/kg

Body/LTE12 Cellular Ant3_Front_10MHz_1@0_QPSK_CH23095/Zoom Scan (6x6x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.086 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.0150 W/kg

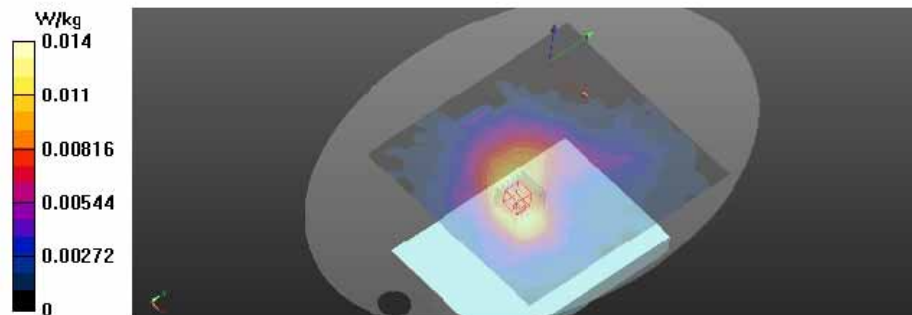
SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00859 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 78.2%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0134 W/kg



Appendix B.21 Test Plots for LTE25 Cellular Ant1

Date/Time: 2024-07-24 19:18:33

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE25 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH26365_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 25 (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.438$ S/m; $\epsilon_r = 40.392$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1882.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE25 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH26365/Area Scan (181x251x1):

Interpolated grid: $dx=1.500$ mm, $dy=1.500$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.161 W/kg

Body/LTE25 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH26365/Zoom Scan (7x9x7)/Cube 0:

Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 9.223 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 0.189 W/kg

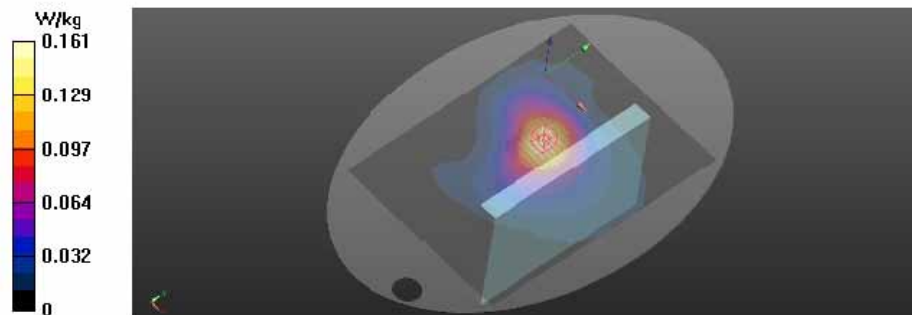
SAR(1 g) = 0.122 W/kg; SAR(10 g) = 0.081 W/kg

Smallest distance from peaks to all points 3 dB below = 36 mm

Ratio of SAR at M2 to SAR at M1 = 63.3%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.164 W/kg



Appendix B.22 Test Plots for LTE25 Cellular Ant3

Date/Time: 2024-08-01 10:10:34

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE25 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH26365_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 25 (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 1882.5$ MHz; $\sigma = 1.449$ S/m; $\epsilon_r = 38.812$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(8.32, 7.99, 8.47) @ 1882.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE25 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH26365/Area Scan (171x221x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0647 W/kg

Body/LTE25 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH26365/Zoom Scan (6x6x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.653 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.0700 W/kg

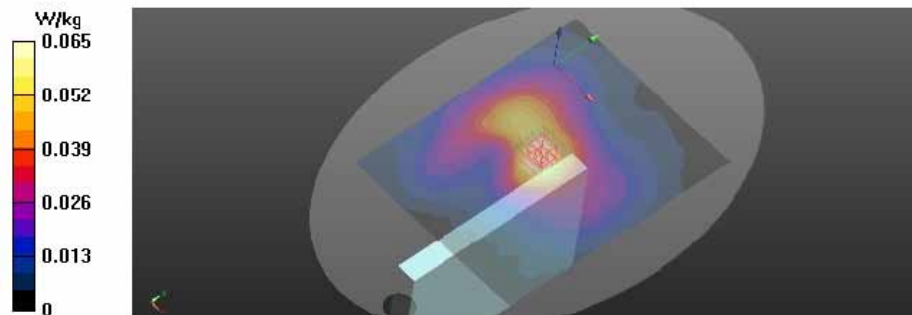
SAR(1 g) = 0.046 W/kg; SAR(10 g) = 0.031 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 64.1%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0606 W/kg



Appendix B.23 Test Plots for LTE26 Cellular Ant1

Date/Time: 2024-07-26 18:00:11

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE26 Cellular Ant1_Right Edge_15MHz_1@0_QPSK_CH26865_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.907$ S/m; $\epsilon_r = 40.767$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 831.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE26 Cellular Ant1_Right Edge_15MHz_1@0_QPSK_CH26865/Area Scan (181x251x1):

Interpolated grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0381 W/kg

Body/LTE26 Cellular Ant1_Right Edge_15MHz_1@0_QPSK_CH26865/Zoom Scan (8x7x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.407 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.0400 W/kg

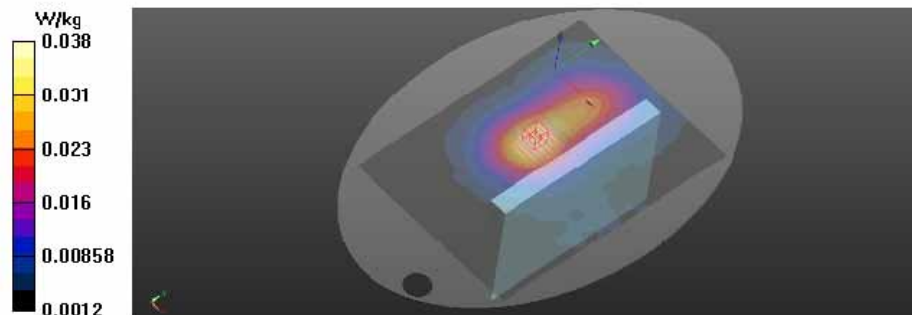
SAR(1 g) = 0.031 W/kg; SAR(10 g) = 0.023 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 75.4%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0371 W/kg



Appendix B.24 Test Plots for LTE26 Cellular Ant3

Date/Time: 2024-08-01 14:21:26

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE26 Cellular Ant3_Front_15MHz_1@0_QPSK_CH26865_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 26 (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 831.5$ MHz; $\sigma = 0.924$ S/m; $\epsilon_r = 40.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(10.14, 9.75, 9.24) @ 831.5 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE26 Cellular Ant3_Front_15MHz_1@0_QPSK_CH26865/Area Scan (211x221x1): Interpolated
grid: dx=1.500 mm, dy=1.500 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0308 W/kg

Body/LTE26 Cellular Ant3_Front_15MHz_1@0_QPSK_CH26865/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 5.822 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.0330 W/kg

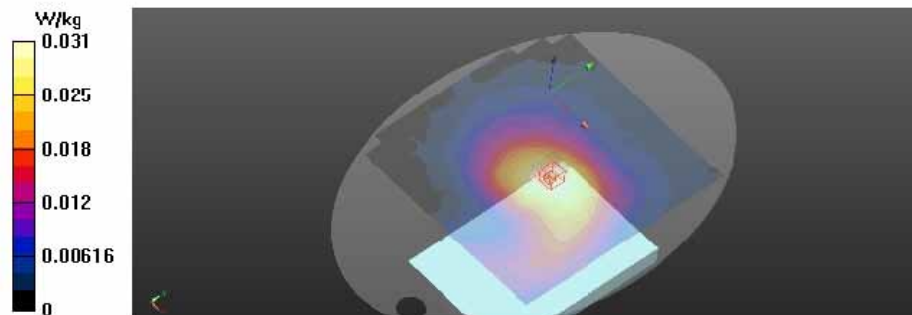
SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 76.8%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0304 W/kg



Appendix B.25 Test Plots for LTE41 Cellular Ant1

Date/Time: 2024-07-26 11:29:47

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE41 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH40620_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 41 (0); Frequency: 2593 MHz; Duty Cycle: 1:1.57979

Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 1.96$ S/m; $\epsilon_r = 38.239$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2593 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE41 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH40620/Area Scan (231x311x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0171 W/kg

Body/LTE41 Cellular Ant1_Right Edge_20MHz_1@0_QPSK_CH40620/Zoom Scan (15x20x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.695 V/m; Power Drift = -0.13 dB

Peak SAR (extrapolated) = 0.0520 W/kg

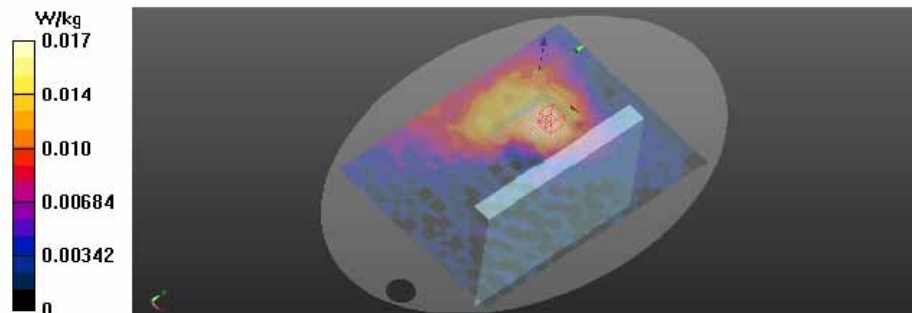
SAR(1 g) = 0.012 W/kg; SAR(10 g) = 0.00778 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 59%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0180 W/kg



Appendix B.26 Test Plots for LTE41 Cellular Ant3

Date/Time: 2024-08-05 22:40:22

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [LTE41 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH40620_da53-0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, LTE Band 41 (0); Frequency: 2593 MHz; Duty Cycle: 1:1.57979

Medium parameters used (interpolated): $f = 2593$ MHz; $\sigma = 1.956$ S/m; $\epsilon_r = 38.017$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2593 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE41 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH40620/Area Scan (211x281x1):

Interpolated grid: dx=1.200 mm, dy=1.200 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0281 W/kg

Body/LTE41 Cellular Ant3_Right Edge_20MHz_1@0_QPSK_CH40620/Zoom Scan (11x16x7)/Cube

0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.172 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.0350 W/kg

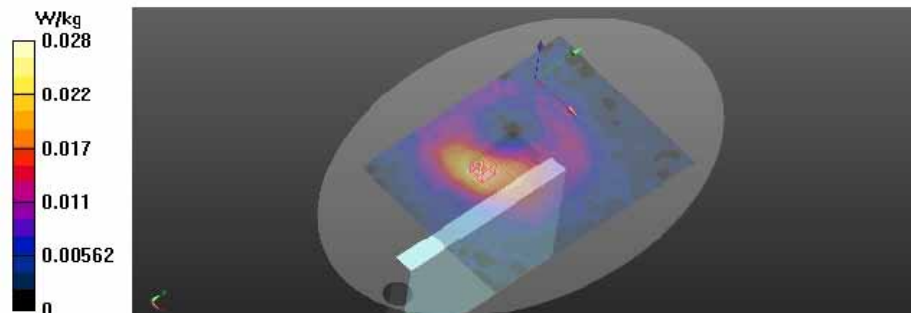
SAR(1 g) = 0.019 W/kg; SAR(10 g) = 0.012 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 52%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0286 W/kg



Appendix B.27 Test Plots for 5GNRn7 Cellular Ant1

Date/Time: 2024-08-06 10:17:01

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn7 Cellular Ant1 Right Edge 15kHz 20MHz 50@25 QPSK CH507000.da53:0

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: ULD 0, 5G NR FDD (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.898$ S/m; $\epsilon_r = 39.099$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2535 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn7 Cellular Ant1_Right Edge_15kHz_20MHz_50@25_QPSK_CH507000/Area Scan

(231x311x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0414 W/kg

Body/5GNRn7 Cellular Ant1_Right Edge_15kHz_20MHz_50@25_QPSK_CH507000/Zoom Scan

(7x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 1.871 V/m; Power Drift = 0.15 dB

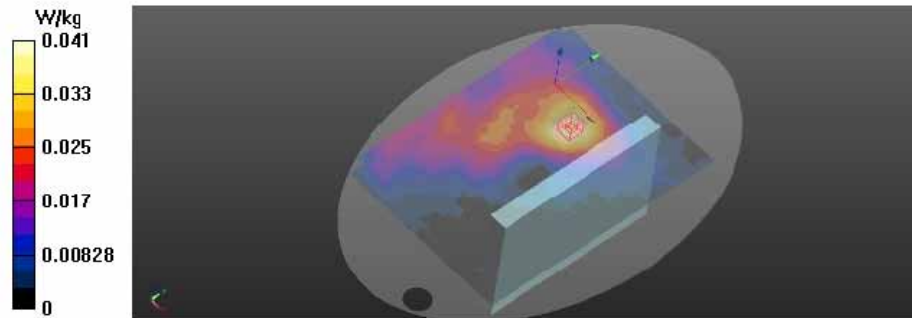
Peak SAR (extrapolated) = 0.0520 W/kg

SAR(1 g) = 0.030 W/kg; SAR(10 g) = 0.019 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 0.0436 W/kg



Appendix B.28 Test Plots for 5GNRn7 Cellular Ant3

Date/Time: 2024-08-06 17:10:59

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn7 Cellular Ant3 Right Edge 15kHz 20MHz 50@25 QPSK CH507000.da53:0

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: ULD 0, 5G NR FDD (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.898$ S/m; $\epsilon_r = 39.099$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2535 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn7 Cellular Ant3 Right Edge 15kHz 20MHz 50@25 QPSK CH507000/Area Scan

(211x281x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0464 W/kg

Body/5GNRn7 Cellular Ant3 Right Edge 15kHz 20MHz 50@25 QPSK CH507000/Zoom Scan

(7x8x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 3.399 V/m; Power Drift = -0.04 dB

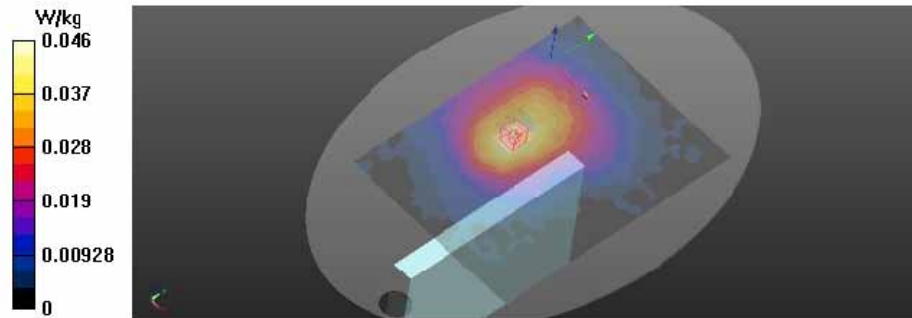
Peak SAR (extrapolated) = 0.0550 W/kg

SAR(1 g) = 0.033 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 0.0463 W/kg



Appendix B.29 Test Plots for 5GNRn41 Cellular Ant1

Date/Time: 2024-08-07 15:02:27

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn41 Cellular Ant1 Right Edge 30kHz 100MHz 1@1 QPSK CH518598.da53:0](#)
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UTD 0, 5G NR TDD 100% (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.988$ S/m; $\epsilon_r = 40.158$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2592.99 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 Cellular Ant1_Right Edge_30kHz_100MHz_1@1_QPSK_CH518598/Area Scan
(231x311x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0363 W/kg

Body/5GNRn41 Cellular Ant1_Right Edge_30kHz_100MHz_1@1_QPSK_CH518598/Zoom Scan
(7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 2.260 V/m; Power Drift = -0.11 dB

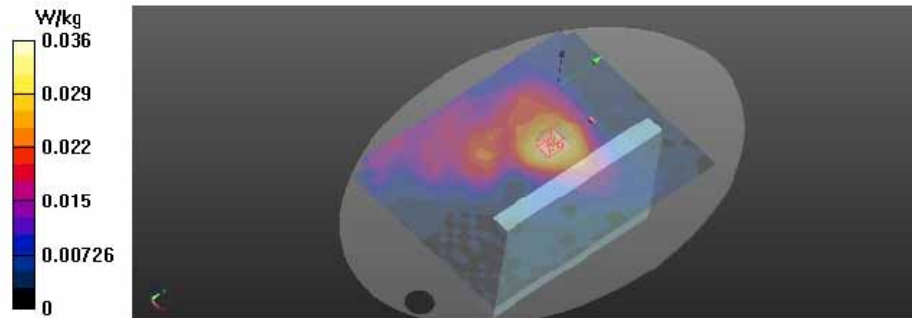
Peak SAR (extrapolated) = 0.0430 W/kg

SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.015 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 0.0360 W/kg



Appendix B.30 Test Plots for 5GNRn41 Cellular Ant3

Date/Time: 2024-08-08 15:25:38

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn41 Cellular Ant3 Right Edge 30kHz 100MHz 1@1 QPSK CH518598.da53:0

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: ULD 0, 5G NR TDD 100% (0); Frequency: 2592.99 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.955$ S/m; $\epsilon_r = 39.497$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2592.99 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 Cellular Ant3 Right Edge 30kHz 100MHz 1@1 QPSK CH518598/Area Scan

(181x231x1): Interpolated grid: $dx=1.200$ mm, $dy=1.200$ mm

Maximum value of SAR (interpolated) = 0.0582 W/kg

Body/5GNRn41 Cellular Ant3 Right Edge 30kHz 100MHz 1@1 QPSK CH518598/Zoom Scan

(7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm

Reference Value = 4.583 V/m; Power Drift = -0.15 dB

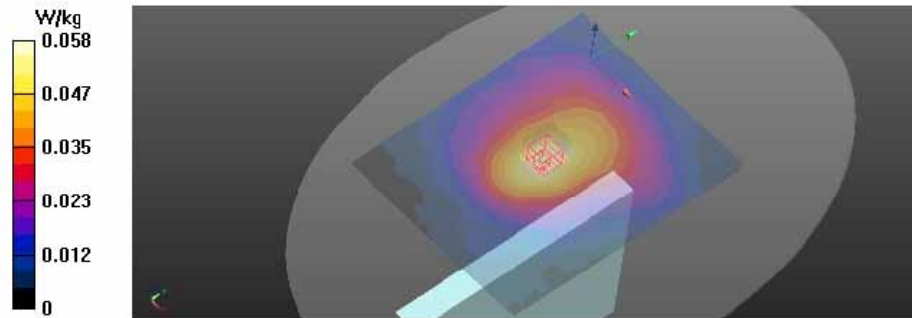
Peak SAR (extrapolated) = 0.0680 W/kg

SAR(1 g) = 0.039 W/kg; SAR(10 g) = 0.024 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 0.0570 W/kg



Appendix B.31 Test Plots for 5GNRn77 Cellular Ant1

Date/Time: 2024-08-09 11:54:33

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn77 Cellular Ant1 Right Edge 30kHz 100MHz 135@67 QPSK CH656000.da53:0
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: ULD 0, 5G NR TDD 100% (0); Frequency: 3840 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3840 \text{ MHz}$; $\sigma = 3.206 \text{ S/m}$; $\epsilon_r = 38.842$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(6.92, 6.61, 7.03) @ 3840 MHz; Calibrated: 2024-01-24

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20

- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244

- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 Cellular Ant1 Right Edge 30kHz 100MHz 135@67 QPSK CH656000/Area Scan
(241x301x1): Interpolated grid: $dx=1.000 \text{ mm}$, $dy=1.000 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0966 W/kg

Body/5GNRn77 Cellular Ant1 Right Edge 30kHz 100MHz 135@67 QPSK CH656000/Zoom
Scan (9x9x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 4.726 V/m; Power Drift = 0.16 dB

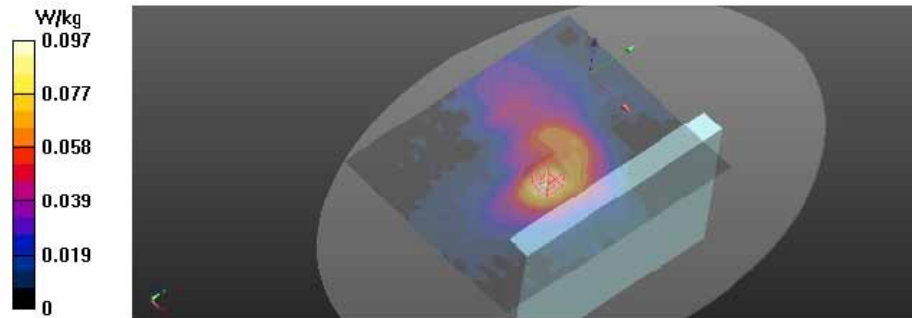
Peak SAR (extrapolated) = 0.135 W/kg

SAR(1 g) = 0.055 W/kg; SAR(10 g) = 0.028 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 72.5%

Maximum value of SAR (measured) = 0.0949 W/kg



Appendix B.32 Test Plots for 5GNRn77 Cellular Ant2

Date/Time: 2024-08-08 18:30:41

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn77 Cellular Ant2 Front 30kHz 100MHz 135@67 QPSK CH656000.da53:0

DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006950

Communication System: ULD 0, 5G NR TDD 100% (0); Frequency: 3840 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.212$ S/m; $\epsilon_r = 38.806$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(6.92, 6.61, 7.03) @ 3840 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 Cellular Ant2 Front 30kHz 100MHz 135@67 QPSK CH656000/Area Scan

(261x261x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.0935 W/kg

Body/5GNRn77 Cellular Ant2 Front 30kHz 100MHz 135@67 QPSK CH656000/Zoom Scan

(9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 3.774 V/m; Power Drift = -0.12 dB

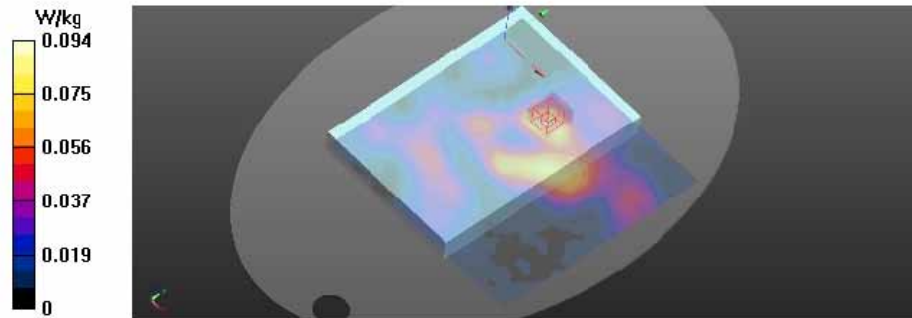
Peak SAR (extrapolated) = 0.127 W/kg

SAR(1 g) = 0.054 W/kg; SAR(10 g) = 0.027 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 76.3%

Maximum value of SAR (measured) = 0.0919 W/kg



Appendix B.33 Test Plots for 5GNRn77 Cellular Ant3

Date/Time: 2024-08-14 09:51:44

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn77 Cellular Ant3_Right Edge_30kHz_100MHz_135@67_QPSK_CH656000.da53:0
DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3840 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 3840$ MHz; $\sigma = 3.204$ S/m; $\epsilon_r = 38.485$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(6.92, 6.61, 7.03) @ 3840 MHz; Calibrated: 2024-01-24

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)

- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20

- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244

- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 Cellular Ant3_Right Edge_30kHz_100MHz_135@67_QPSK_CH656000/Area Scan
(221x241x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Maximum value of SAR (interpolated) = 0.0719 W/kg

Body/5GNRn77 Cellular Ant3_Right Edge_30kHz_100MHz_135@67_QPSK_CH656000/Zoom
Scan (9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 1.771 V/m; Power Drift = 0.07 dB

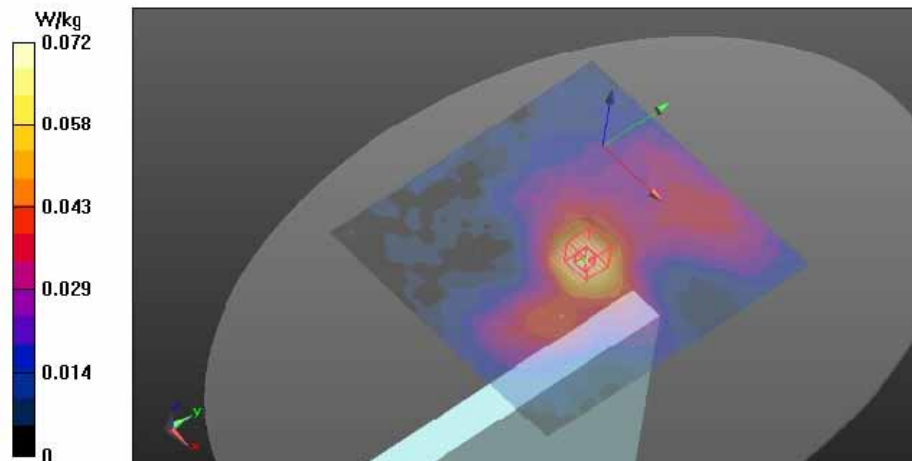
Peak SAR (extrapolated) = 0.0980 W/kg

SAR(1 g) = 0.041 W/kg; SAR(10 g) = 0.020 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 77.2%

Maximum value of SAR (measured) = 0.0714 W/kg



Appendix B.34 Test Plots for 5GNRn77 DoD Cellular Ant1

Date/Time: 2024-08-19 14:25:30

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn77 DoD Cellular Ant1_Right Edge_30kHz_100MHz_135@67_QPSK_CH633334_da53:0](#)

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.818$ S/m; $\epsilon_r = 39.54$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.2, 6.9, 7.3) @ 3500.01 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD Cellular Ant1_Right Edge_30kHz_100MHz_135@67_QPSK_CH633334/Area Scan (201x241x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0538 W/kg

Body/5GNRn77 DoD Cellular Ant1_Right Edge_30kHz_100MHz_135@67_QPSK_CH633334/Zoom

Scan (9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 2.771 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.0680 W/kg

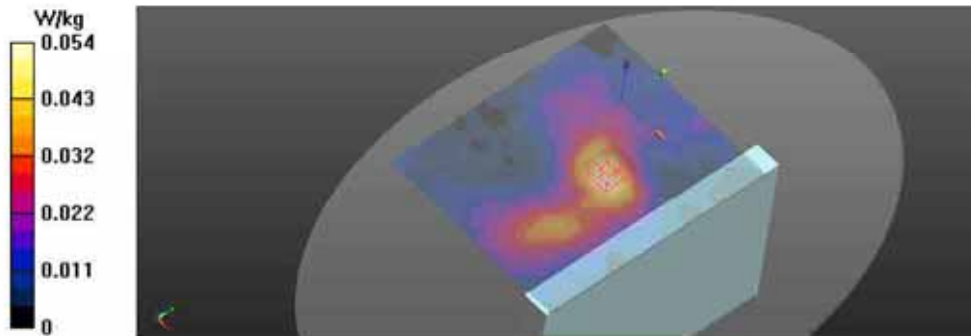
SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.017 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 77.3%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0518 W/kg



Appendix B.35 Test Plots for 5GNRn77 DoD Cellular Ant2

Date/Time: 2024-08-16 15:18:23

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn77 DoD Cellular Ant2 Front 30kHz 100MHz 135@67 QPSK CH633334.da53:0

DUT: TFBMEIBN3EU; Type: Telematics device; Serial: 355353850006950

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.896$ S/m; $\epsilon_r = 38.284$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.2, 6.9, 7.3) @ 3500.01 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD Cellular Ant2_Front 30kHz 100MHz 135@67_QPSK_CH633334/Area Scan (201x241x1): Interpolated grid: $dx=1.000$ mm, $dy=1.000$ mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0226 W/kg

Body/5GNRn77 DoD Cellular Ant2_Front 30kHz 100MHz 135@67_QPSK_CH633334/Zoom Scan (9x9x7)/Cube 0: Measurement grid: $dx=4$ mm, $dy=4$ mm, $dz=1.4$ mm

Reference Value = 1.574 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.0330 W/kg

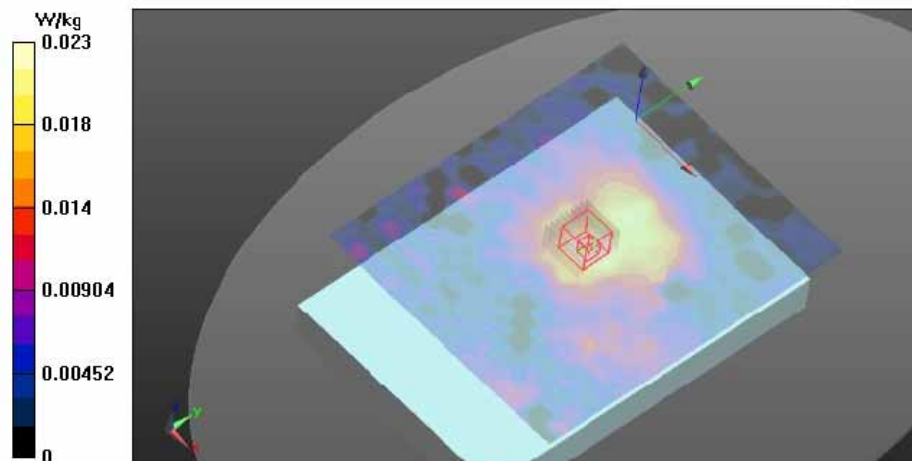
SAR(1 g) = 0.013 W/kg; SAR(10 g) = 0.00715 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 71.7%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0224 W/kg



Appendix B.36 Test Plots for 5GNRn77 DoD Cellular Ant3

Date/Time: 2024-08-19 20:31:13

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn77 DoD Cellular Ant3_Right Edge_30kHz_100MHz_135@67_QPSK_CH633334.da53-0

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, 5G NR TDD 100% (0); Frequency: 3500.01 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): $f = 3500.01$ MHz; $\sigma = 2.818$ S/m; $\epsilon_r = 39.54$; $\rho = 1000$ kg/m³
Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.2, 6.9, 7.3) @ 3500.01 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn77 DoD Cellular Ant3_Right Edge_30kHz_100MHz_135@67_QPSK_CH633334/Area Scan (161x301x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (interpolated) = 0.0424 W/kg

Body/5GNRn77 DoD Cellular Ant3_Right Edge_30kHz_100MHz_135@67_QPSK_CH633334/Zoom Scan (11x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0.8480 V/m; Power Drift = 0.11 dB

Peak SAR (extrapolated) = 0.0390 W/kg

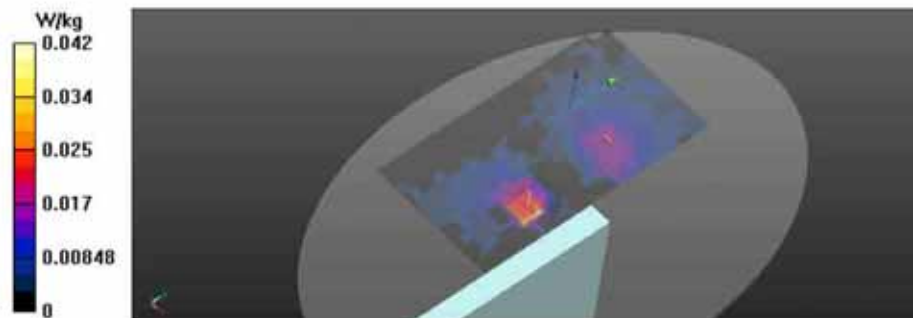
SAR(1 g) = 0.017 W/kg; SAR(10 g) = 0.00818 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 83.2%

Info: Interpolated medium parameters used for SAR evaluation.

Maximum value of SAR (measured) = 0.0286 W/kg



Appendix B.37 Test Plots for ULCA 7C Cellular Ant1

Date/Time: 2024-07-26 16:01:53

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: LTE7 Cellular Ant1_Right

Edge_PCC_20MHz_1@0_QPSK_CH21100#SCC_20MHz_1@99_QPSK_CH20902_da53:0

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.909$ S/m; $\epsilon_r = 38.303$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2535 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE7 Cellular Ant1_Right

Edge_PCC_20MHz_1@0_QPSK_CH21100#SCC_20MHz_1@99_QPSK_CH20902/Area Scan

(161x311x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0414 W/kg

Body/LTE7 Cellular Ant1_Right

Edge_PCC_20MHz_1@0_QPSK_CH21100#SCC_20MHz_1@99_QPSK_CH20902/Zoom Scan

(14x21x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.842 V/m; Power Drift = 0.03 dB

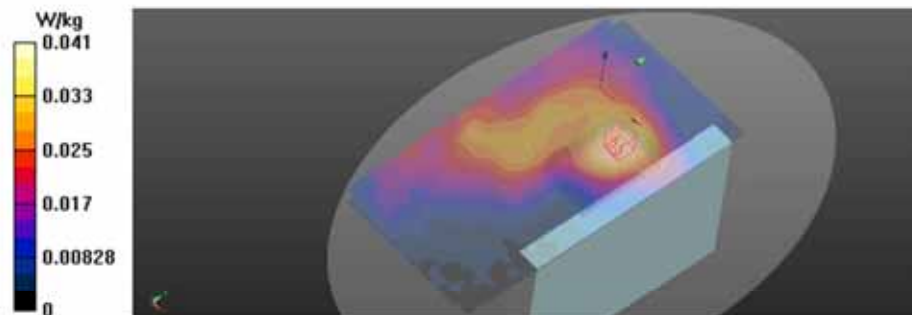
Peak SAR (extrapolated) = 0.0490 W/kg

SAR(1 g) = 0.028 W/kg; SAR(10 g) = 0.018 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 56.4%

Maximum value of SAR (measured) = 0.0408 W/kg



Appendix B.38 Test Plots for ULCA 7C Cellular Ant3

Date/Time: 2024-08-05 20:57:49

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: LTE7 Cellular Ant3_Right

Edge_PCC_20MHz_1@0_QPSK_CH21100#SCC_20MHz_1@99_QPSK_CH20902_da53:0

DUT: TM16FNROBM0; Type: Telematics device; Serial: 004400152020000

Communication System: UID 0, LTE Band 7 (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2535$ MHz; $\sigma = 1.904$ S/m; $\epsilon_r = 38.125$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2535 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1507; Calibrated: 2023-09-20
- Phantom: ELI v5.0 1244; Type: QDOVA002AA; Serial: TP:1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/LTE7 Cellular Ant3_Right

Edge_PCC_20MHz_1@0_QPSK_CH21100#SCC_20MHz_1@99_QPSK_CH20902/Area Scan

(211x281x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0262 W/kg

Body/LTE7 Cellular Ant3_Right

Edge_PCC_20MHz_1@0_QPSK_CH21100#SCC_20MHz_1@99_QPSK_CH20902/Zoom Scan

(13x16x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.161 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0320 W/kg

SAR(1 g) = 0.018 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below: Larger than measurement grid

Ratio of SAR at M2 to SAR at M1 = 55.1%

Maximum value of SAR (measured) = 0.0263 W/kg

