

Appendix A Verification Plots

Appendix A.1 Verification Plots for Verification 2600MHz

Date/Time: 2024-12-20 09:23:39

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 2600MHz 2024-12-20.da53:0](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1124

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.981$ S/m; $\epsilon_r = 37.639$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2600 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 8.50 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 63.80 V/m; Power Drift = -0.17 dB

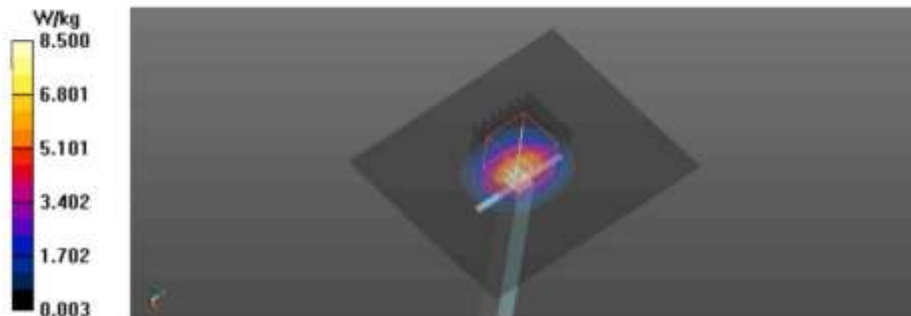
Peak SAR (extrapolated) = 9.51 W/kg

SAR(1 g) = 5.09 W/kg; SAR(10 g) = 2.48 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

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

Maximum value of SAR (measured) = 8.06 W/kg



Date/Time: 2024-12-23 09:09:56

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [Verification 2600MHz_2024-12-23.da53.0](#)

Input Power : 100 mW

DUT: Dipole 2600 MHz D2600V2; Type: D2600V2; Serial: D2600V2 - SN:1124

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.959$ S/m; $\epsilon_r = 39.886$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY52 Configuration:

- Probe: EX3DV4 - SN3986; ConvF(7.96, 7.62, 8.14) @ 2600 MHz; Calibrated: 2024-01-24
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Verification/2600MHz Verification/Area Scan (81x101x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 9.57 W/kg

Verification/2600MHz Verification/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 65.54 V/m; Power Drift = -0.13 dB

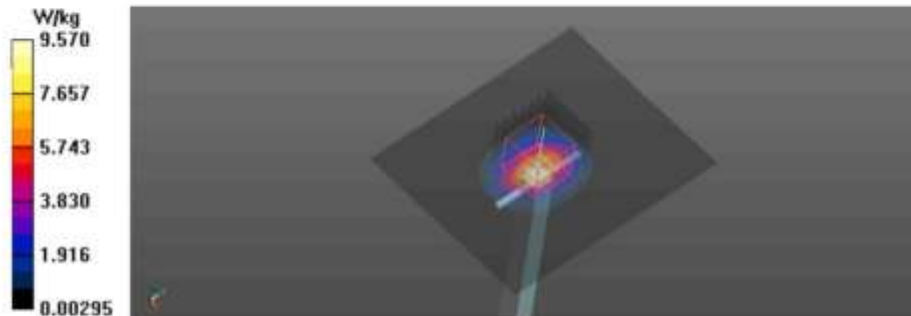
Peak SAR (extrapolated) = 9.85 W/kg

SAR(1 g) = 5.25 W/kg; SAR(10 g) = 2.57 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 54.6%

Maximum value of SAR (measured) = 8.34 W/kg



Appendix B Test Plots

Appendix B.1 Test Plots for 5GNRn41

Date/Time: 2024-12-20 15:42:56

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: 5GNRn41_Front_30KHz_100MHz_135@67_DFT_BPSK_CH518598.da53:0

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.975$ S/m; $\epsilon_r = 37.671$; $\rho = 1000$ 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: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41_Front_30KHz_100MHz_135@67_DFT_BPSK_CH518598/Area Scan (331x401x1):

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

Maximum value of SAR (interpolated) = 0.0173 W/kg

Body/5GNRn41_Front_30KHz_100MHz_135@67_DFT_BPSK_CH518598/Zoom Scan (8x8x7)/Cube

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

Reference Value = 2.197 V/m; Power Drift = -0.15 dB

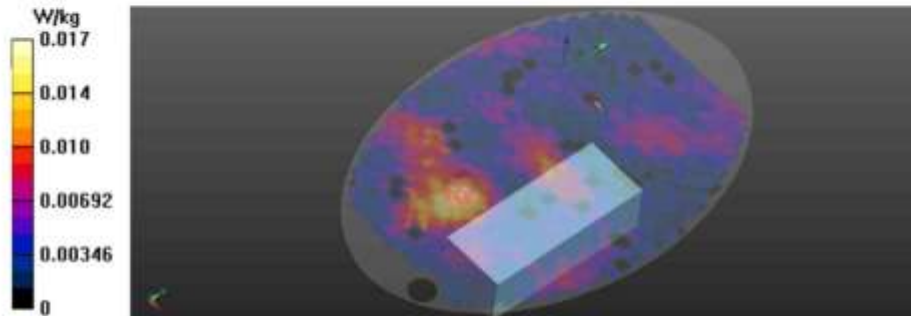
Peak SAR (extrapolated) = 0.0190 W/kg

SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00588 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 = 51.6%

Maximum value of SAR (measured) = 0.0155 W/kg



Appendix B.2 Test Plots for 5GNRn41 MIMO

Date/Time: 2024-12-23 16:57:02

Test Laboratory : SGS Korea (Gunpo Laboratory)

File Name: [5GNRn41 MIMO_Front_30KHz_100MHz_137@68_CP_QPSK_CH518598.da53.0](#)

DUT: TFGMEIBBCD1; Type: Telematics; Serial: 004400152020000

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.952$ S/m; $\epsilon_r = 39.925$; $\rho = 1000$ 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: DAE3 Sn567; Calibrated: 2024-02-16
- Phantom: ELI V5.0 1244; Type: QD OVA 002 AA; Serial: 1244
- DASY52 52.10.4(1527)SEMCAD X 14.6.14(7483)

Body/5GNRn41 MIMO_Front_30KHz_100MHz_137@68_CP_QPSK_CH518598/Area Scan

(331x401x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0119 W/kg

Body/5GNRn41 MIMO_Front_30KHz_100MHz_137@68_CP_QPSK_CH518598/Zoom Scan

(11x11x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.876 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.00647 W/kg

SAR(1 g) = 0.00109 W/kg; SAR(10 g) = 0.000385 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 = 40.9%

Maximum value of SAR (measured) = 0.00392 W/kg

