



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Rev.: 01

Appendix B

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Test Laboratory: SGS-SAR Lab

TF31B GSM850 GPRS 2TS 190CH Back side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, GPRS/EGPRS Mode(2up) Communication System (0); Frequency: 836.6 MHz; Duty Cycle: 1:4.15

Medium: HSL835; Medium parameters used: $f = 837$ MHz; $\sigma = 0.912$ S/m; $\epsilon_r = 42.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(10.34, 10.34, 10.34); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 1.21 W/kg

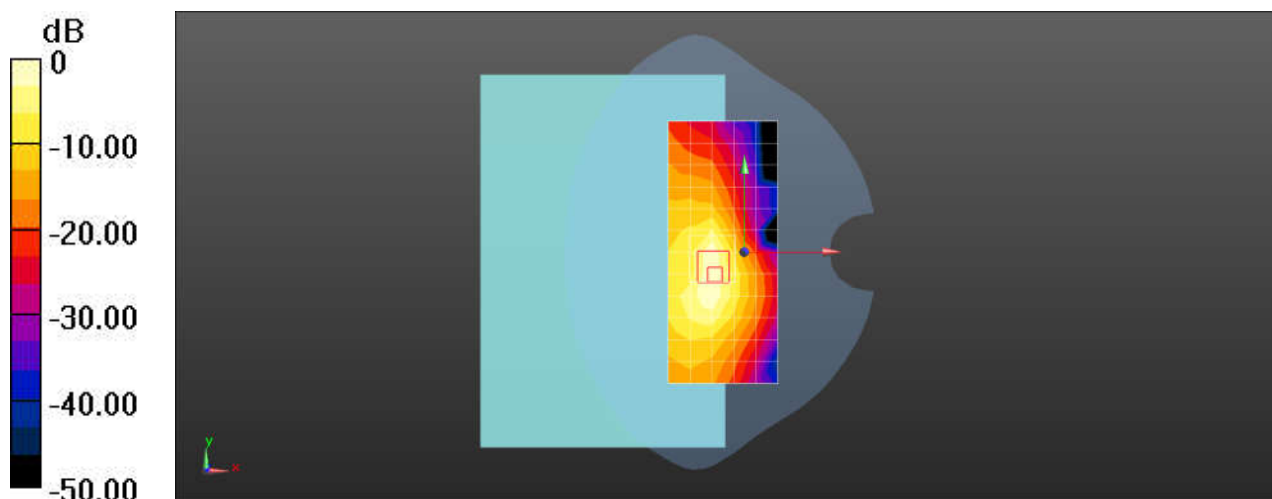
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 20.02 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.89 W/kg

SAR(1 g) = 0.683 W/kg; SAR(10 g) = 0.362 W/kg

Maximum value of SAR (measured) = 1.26 W/kg



0 dB = 1.21 W/kg = 0.83 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31B GSM1900 GPRS 4TS 661CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, GPRS/EGPRS Mode(4up) Communication System (0); Frequency: 1880 MHz; Duty Cycle: 1:2.08

Medium: HSL1950; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 40.732$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.6, 8.6, 8.6); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (5x13x1): Measurement grid: $dx=15$ mm, $dy=15$ mm
Maximum value of SAR (measured) = 0.736 W/kg

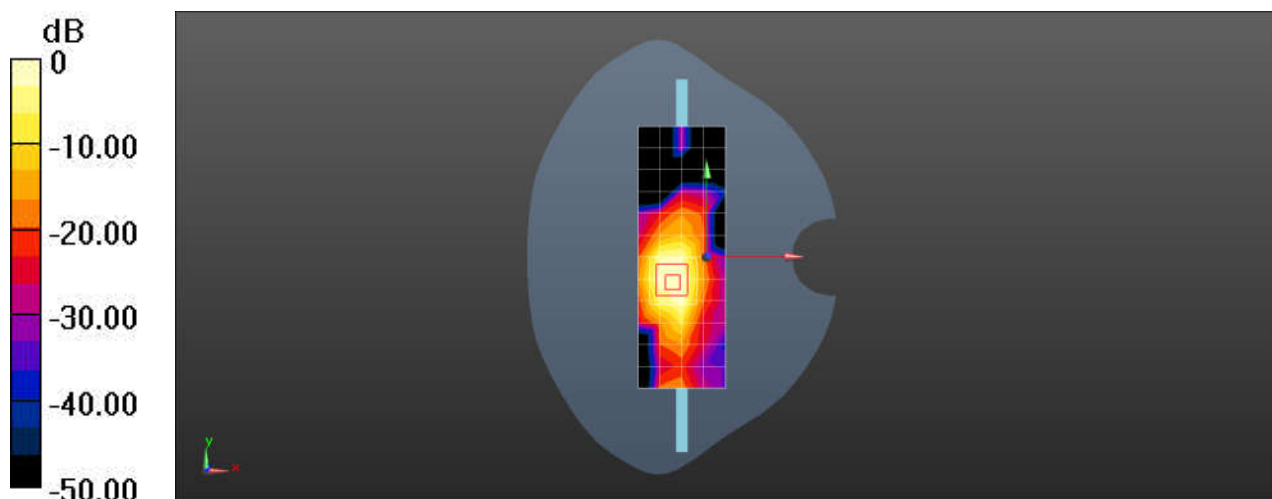
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8$ mm, $dy=8$ mm, $dz=5$ mm

Reference Value = 14.70 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.73 W/kg

SAR(1 g) = 0.809 W/kg; SAR(10 g) = 0.369 W/kg

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 0.736 W/kg = -1.33 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31B WCDMA Band II RMC 9400CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

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

Medium: HSL1950; Medium parameters used: $f = 1880$ MHz; $\sigma = 1.383$ S/m; $\epsilon_r = 40.732$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.6, 8.6, 8.6); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.826 W/kg

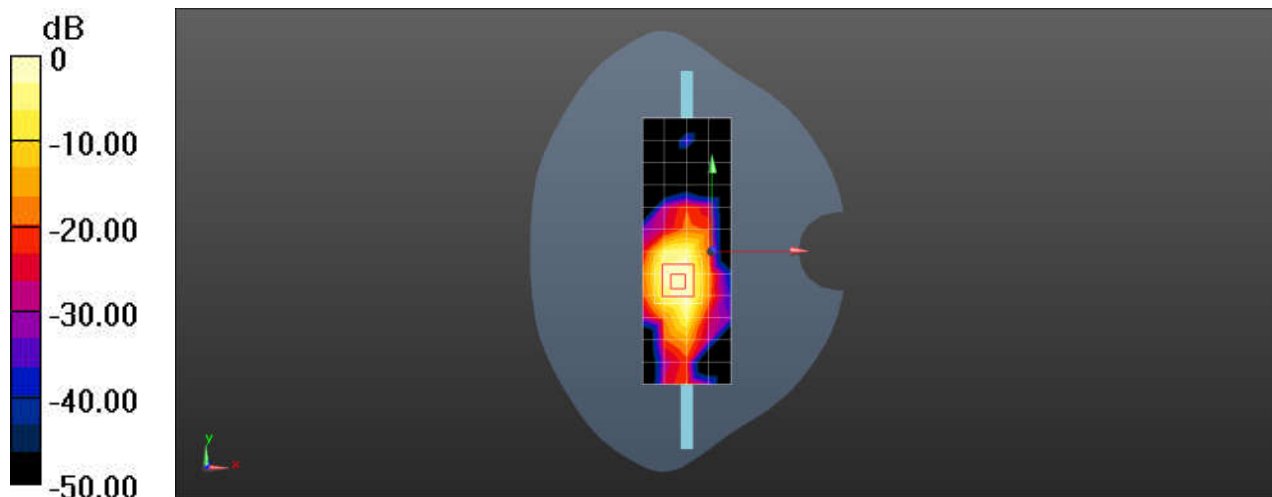
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 12.77 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.87 W/kg

SAR(1 g) = 0.860 W/kg; SAR(10 g) = 0.390 W/kg

Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 0.826 W/kg = -0.83 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31B WCDMA Band IV RMC 1412CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, WCDMA (0); Frequency: 1732.4 MHz; Duty Cycle: 1:1

Medium: HSL1750; Medium parameters used: $f = 1732.4$ MHz; $\sigma = 1.32$ S/m; $\epsilon_r = 40.669$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.95, 8.95, 8.95); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.717 W/kg

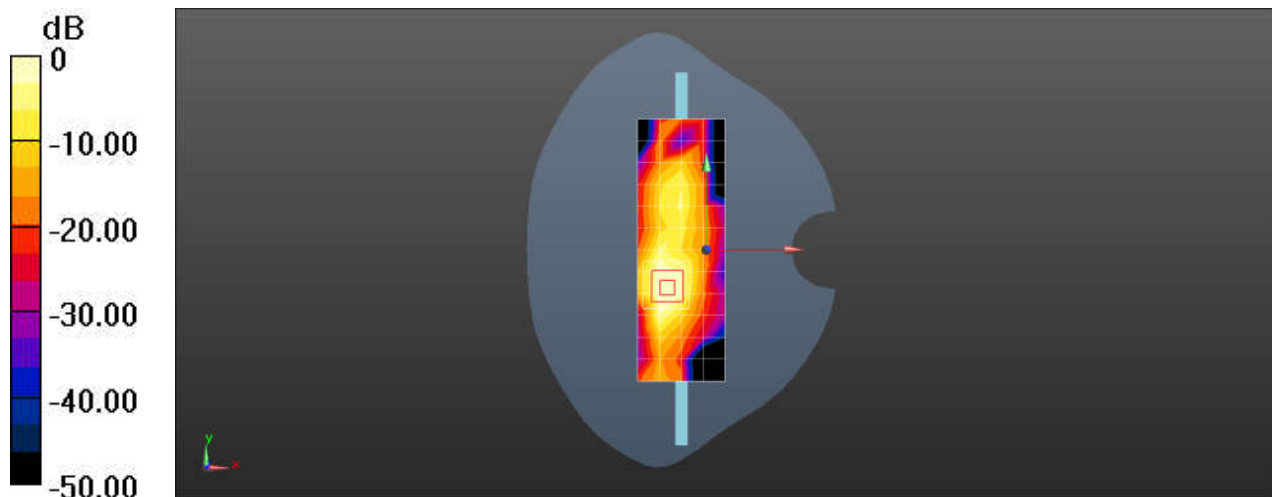
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 7.266 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.66 W/kg

SAR(1 g) = 0.747 W/kg; SAR(10 g) = 0.335 W/kg

Maximum value of SAR (measured) = 1.31 W/kg



Test Laboratory: SGS-SAR Lab

TF31B WCDMA Band V RMC 4182CH Back side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 42.21$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(10.34, 10.34, 10.34); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.17 W/kg

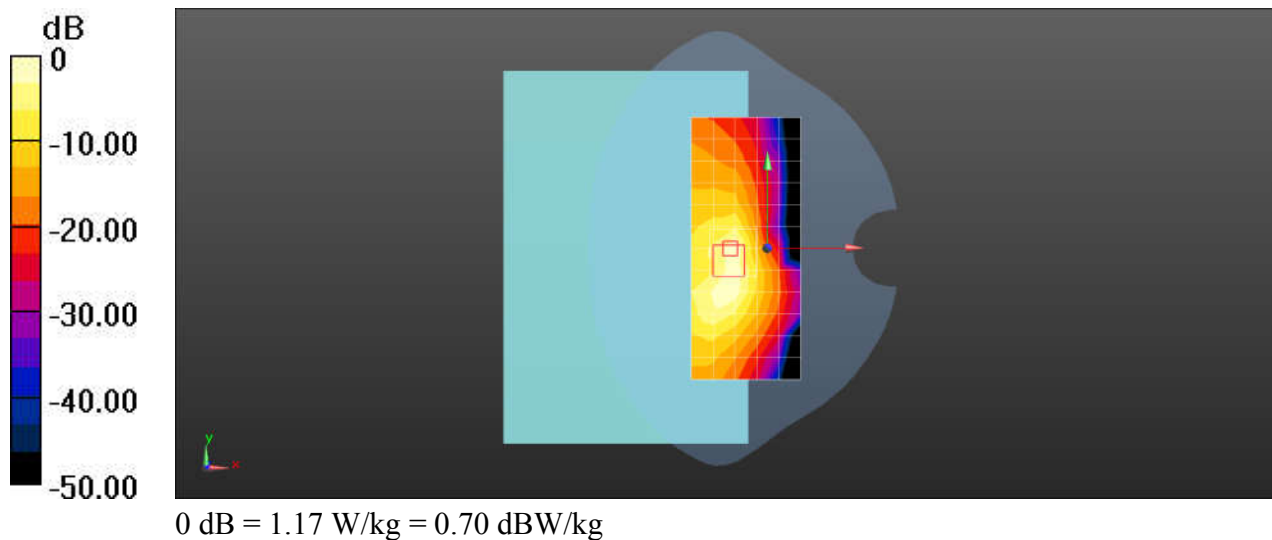
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.60 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 2.62 W/kg

SAR(1 g) = 0.614 W/kg; SAR(10 g) = 0.281 W/kg

Maximum value of SAR (measured) = 1.53 W/kg



Test Laboratory: SGS-SAR Lab

TF31B LTE Band 7 QPSK 20M 1RB0 21350CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 2560 MHz; Duty Cycle: 1:1

Medium: HSL2600; Medium parameters used: $f = 2560$ MHz; $\sigma = 1.924$ S/m; $\epsilon_r = 37.882$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(7.85, 7.85, 7.85); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.33 W/kg

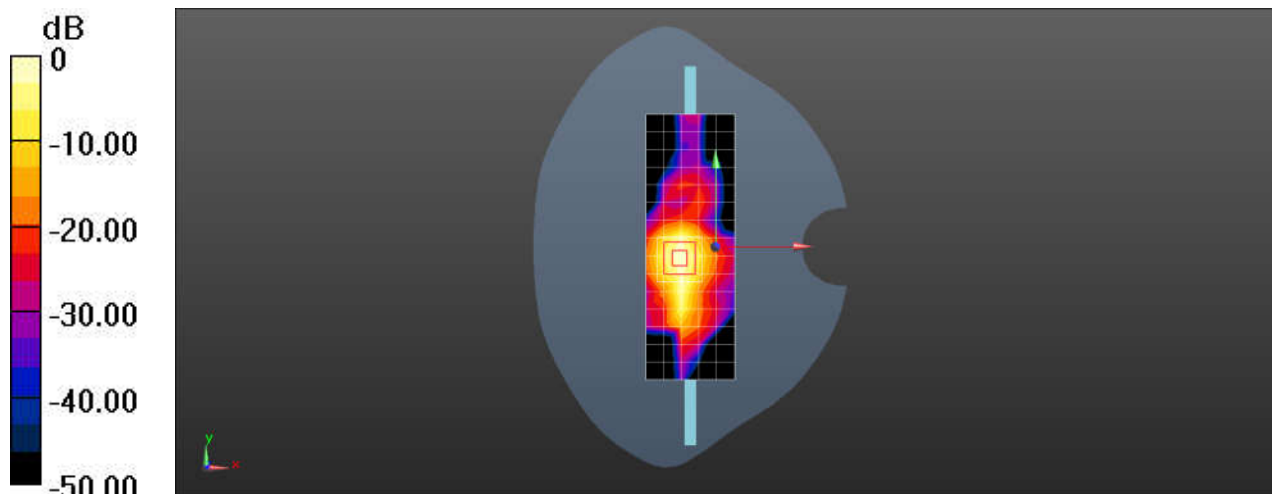
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 14.73 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 1.70 W/kg

SAR(1 g) = 0.746 W/kg; SAR(10 g) = 0.304 W/kg

Maximum value of SAR (measured) = 1.32 W/kg



Test Laboratory: SGS-SAR Lab

TF31B LTE Band 12 QPSK 10M 1RB0 23095CH Back side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium: HSL750; Medium parameters used: $f = 707.5$ MHz; $\sigma = 0.87$ S/m; $\epsilon_r = 42.548$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(10.76, 10.76, 10.76); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.07 W/kg

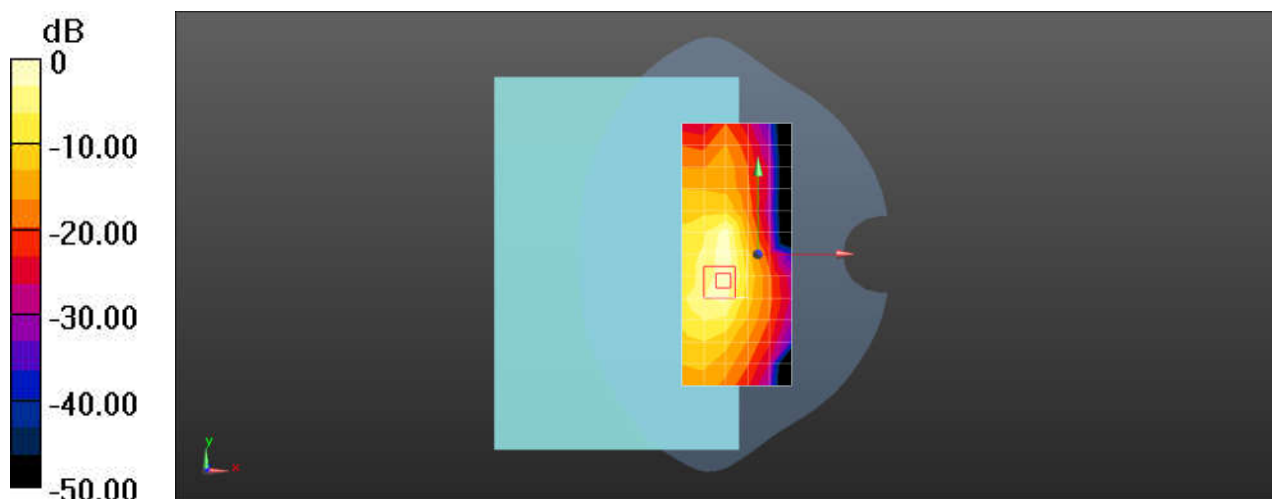
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 16.30 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.94 W/kg

SAR(1 g) = 0.509 W/kg; SAR(10 g) = 0.229 W/kg

Maximum value of SAR (measured) = 1.23 W/kg



0 dB = 1.07 W/kg = 0.30 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31B LTE Band 13 QPSK 10M 1RB0 23230CH Back side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 782 MHz;Duty Cycle: 1:1

Medium: HSL750;Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 41.386$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(10.76, 10.76, 10.76); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x13x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 1.10 W/kg

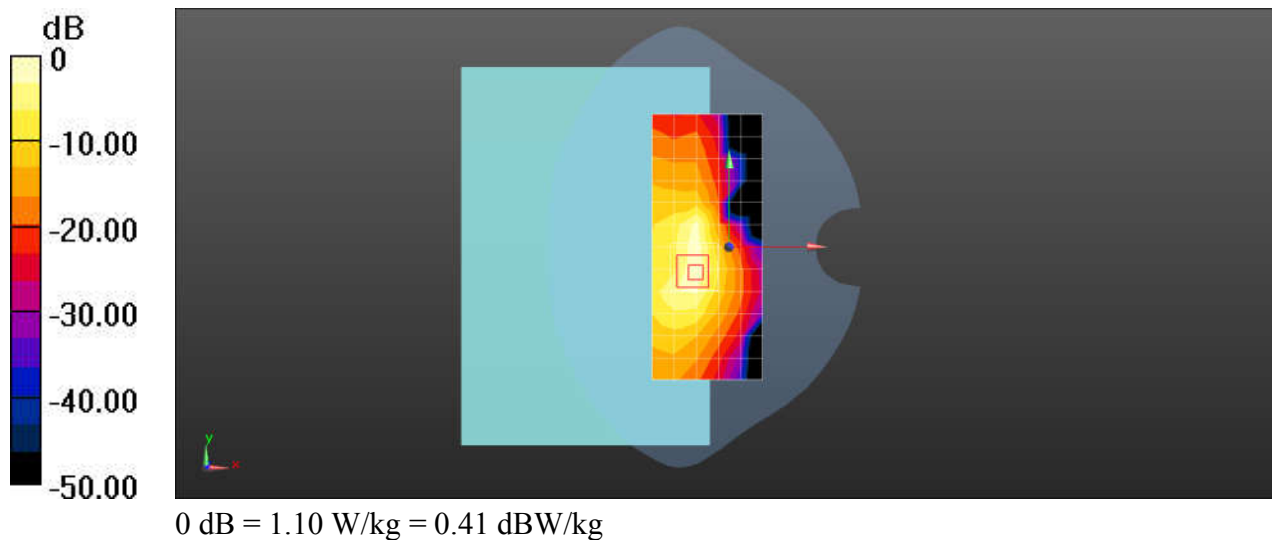
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.00 V/m ; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.484 W/kg ; SAR(10 g) = 0.217 W/kg

Maximum value of SAR (measured) = 1.05 W/kg



Test Laboratory: SGS-SAR Lab

TF31B LTE Band 25 QPSK 20M 1RB0 26365CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Medium: HSL1950; Medium parameters used: $f = 1882.5$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 40.623$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.6, 8.6, 8.6); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 0.642 W/kg

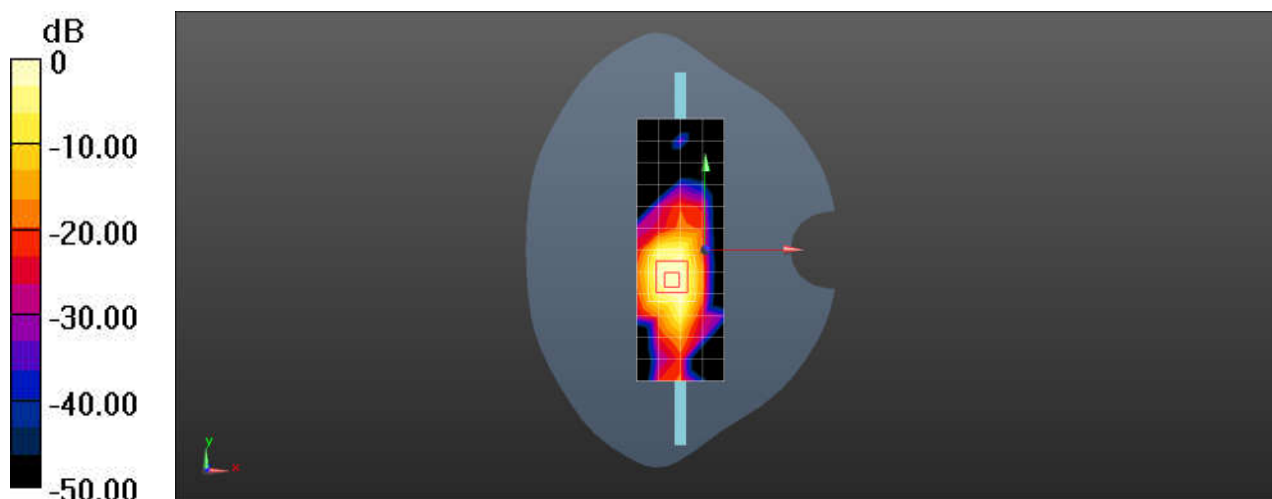
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 11.07 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.47 W/kg

SAR(1 g) = 0.674 W/kg; SAR(10 g) = 0.304 W/kg

Maximum value of SAR (measured) = 1.19 W/kg



0 dB = 0.642 W/kg = -1.93 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31B LTE Band 26 QPSK 15M 1RB0 26865CH Back side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-FDD BW 15MHz (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Medium: HSL835; Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.904$ S/m; $\epsilon_r = 42.17$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(10.34, 10.34, 10.34); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.32 W/kg

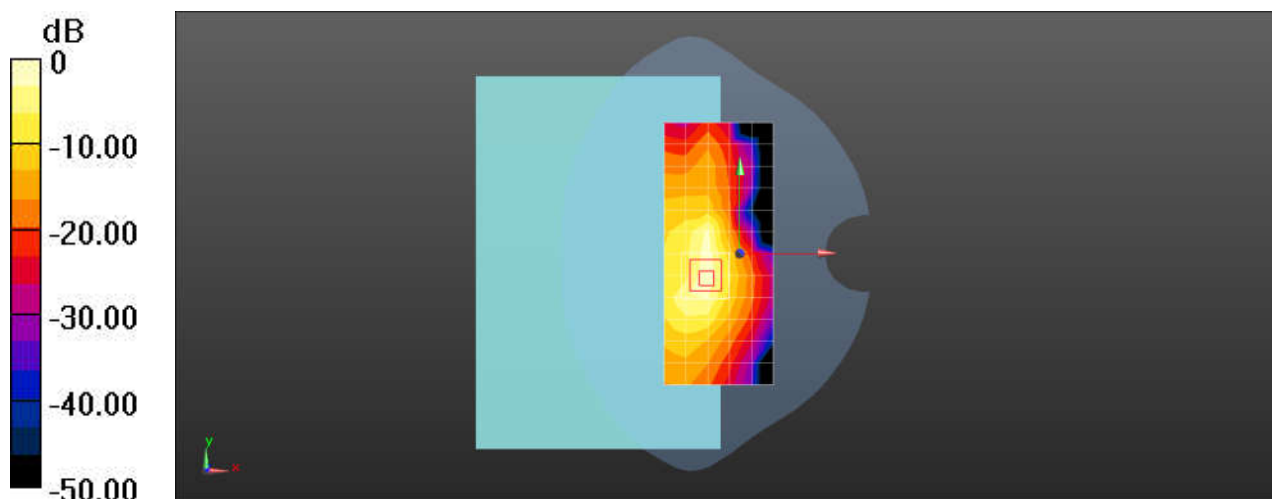
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.23 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.606 W/kg; SAR(10 g) = 0.266 W/kg

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.32 W/kg = 1.20 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31B LTE Band 30 QPSK 10M 1RB0 27710CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-FDD BW 10MHZ (0); Frequency: 2310 MHz;Duty Cycle: 1:1

Medium: HSL2300;Medium parameters used: $f = 2310$ MHz; $\sigma = 1.649$ S/m; $\epsilon_r = 38.777$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.33, 8.33, 8.33); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 0.785 W/kg

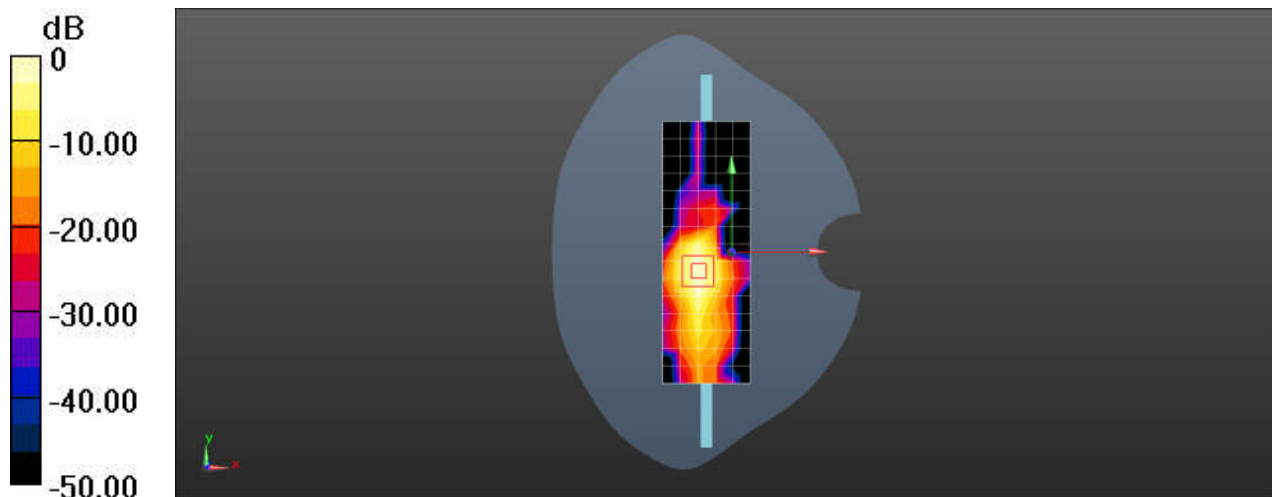
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 10.79 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.05 W/kg

SAR(1 g) = 0.585 W/kg; SAR(10 g) = 0.255 W/kg

Maximum value of SAR (measured) = 0.850 W/kg



Test Laboratory: SGS-SAR Lab

TF31B LTE Band 41 QPSK 20M 1RB0 40620CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-TDD BW 20MHz (0); Frequency: 2593 MHz; Duty Cycle: 1:1.58

Medium: HSL2600; Medium parameters used: $f = 2593$ MHz; $\sigma = 1.945$ S/m; $\epsilon_r = 37.706$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(7.85, 7.85, 7.85); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.79 W/kg

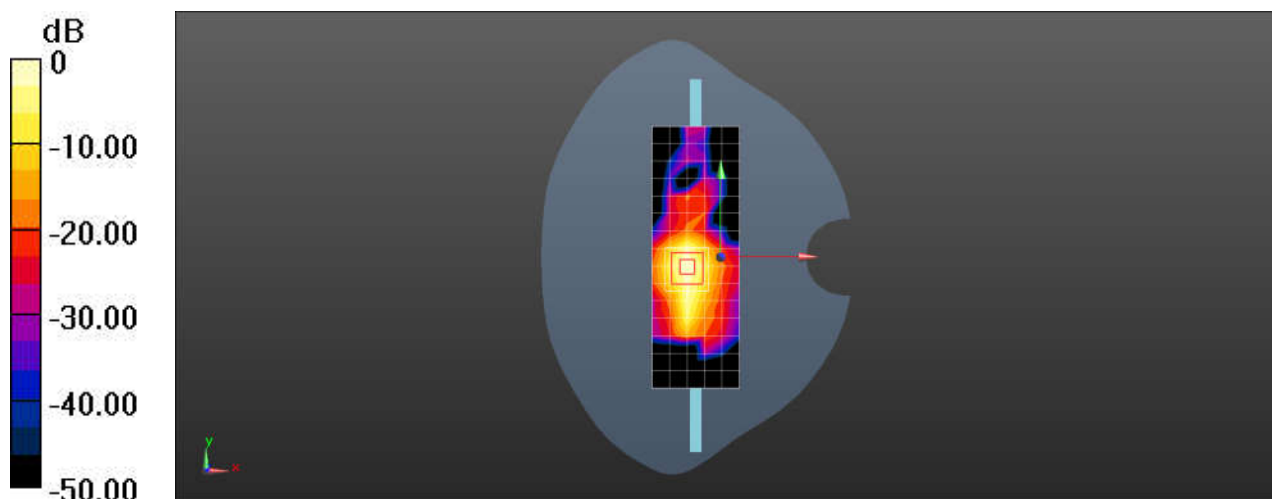
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 18.43 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 2.33 W/kg

SAR(1 g) = 0.984 W/kg; SAR(10 g) = 0.399 W/kg

Maximum value of SAR (measured) = 1.78 W/kg



Test Laboratory: SGS-SAR Lab

TF31B LTE Band 66 QPSK 20M 1RB0 132322CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 1745 MHz;Duty Cycle: 1:1

Medium: HSL1750;Medium parameters used: $f = 1745$ MHz; $\sigma = 1.342$ S/m; $\epsilon_r = 40.78$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.95, 8.95, 8.95); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (5x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.780 W/kg

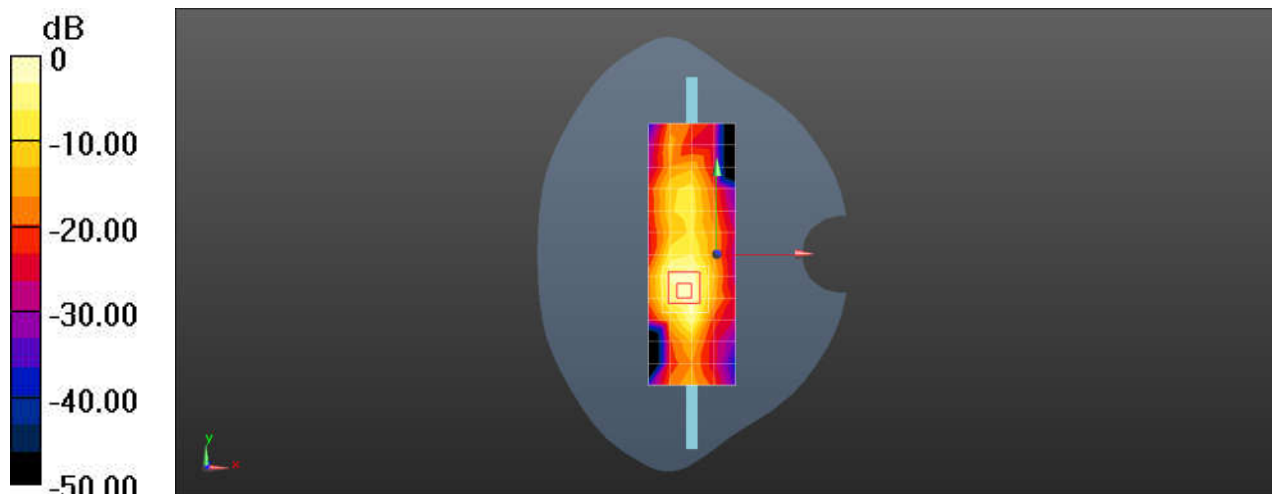
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.13 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 1.63 W/kg

SAR(1 g) = 0.716 W/kg; SAR(10 g) = 0.323 W/kg

Maximum value of SAR (measured) = 1.28 W/kg



0 dB = 0.780 W/kg = -1.08 dBW/kg

Test Laboratory: SGS-SAR Lab

TF31B LTE Band 71 QPSK 20M 1RB0 133322CH Back side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, LTE-FDD BW 20MHz (0); Frequency: 683 MHz;Duty Cycle: 1:1

Medium: HSL750;Medium parameters used: $f = 683$ MHz; $\sigma = 0.847$ S/m; $\epsilon_r = 43.027$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(10.76, 10.76, 10.76); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.18 W/kg

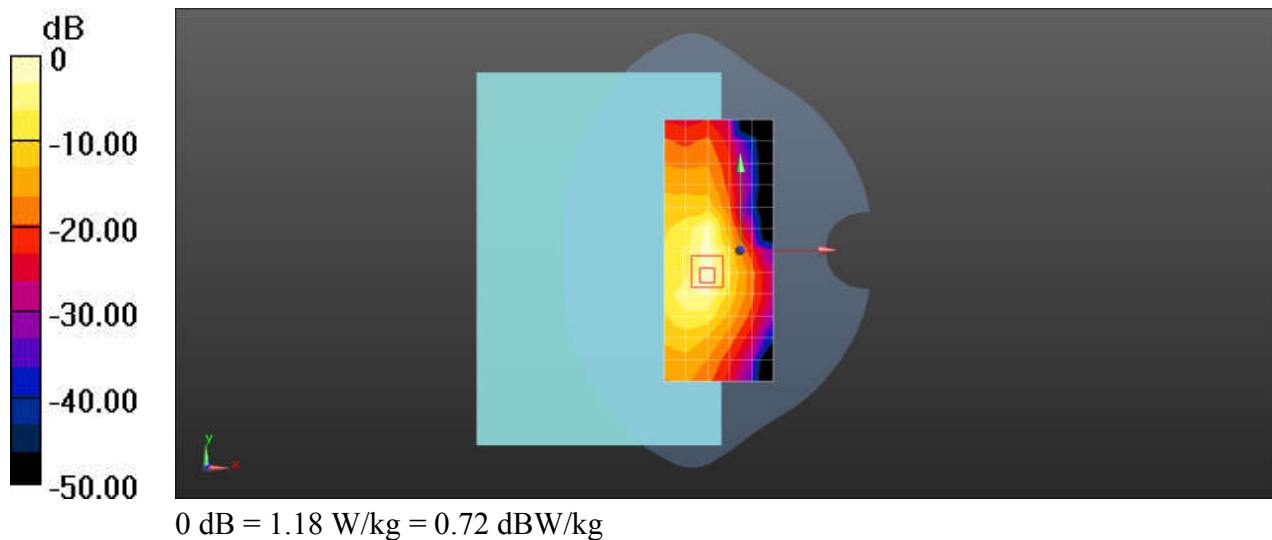
Configuration/Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 18.15 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 1.61 W/kg

SAR(1 g) = 0.542 W/kg; SAR(10 g) = 0.239 W/kg

Maximum value of SAR (measured) = 1.18 W/kg



Test Laboratory: SGS-SAR Lab

TF31B Wifi2.4G 802.11b 6CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, WI-FI(2.4GHz) (0); Frequency: 2437 MHz;Duty Cycle: 1:1.016

Medium: HSL2450;Medium parameters used: $f = 2437$ MHz; $\sigma = 1.791$ S/m; $\epsilon_r = 38.225$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.03, 8.03, 8.03); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.51 W/kg

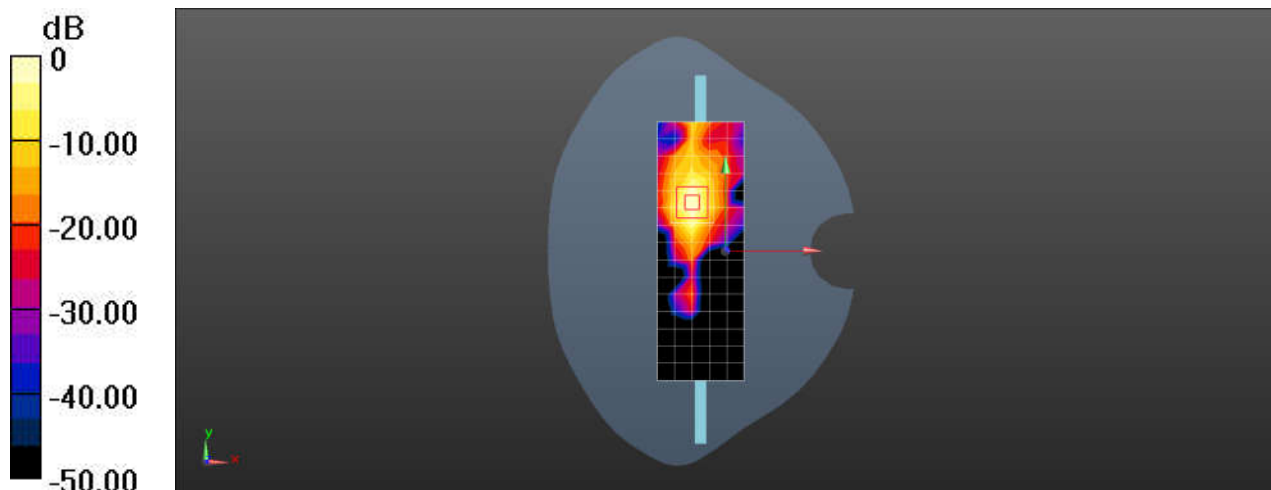
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.642 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 2.07 W/kg

SAR(1 g) = 0.842 W/kg; SAR(10 g) = 0.309 W/kg

Maximum value of SAR (measured) = 1.60 W/kg



Test Laboratory: SGS-SAR Lab

TF31B Wifi5G 802.11a 60CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5300 MHz; Duty Cycle: 1:1.053

Medium: HSL5G; Medium parameters used: $f = 5300$ MHz; $\sigma = 4.811$ S/m; $\epsilon_r = 36.412$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.73, 5.73, 5.73); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (7x19x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 1.94 W/kg

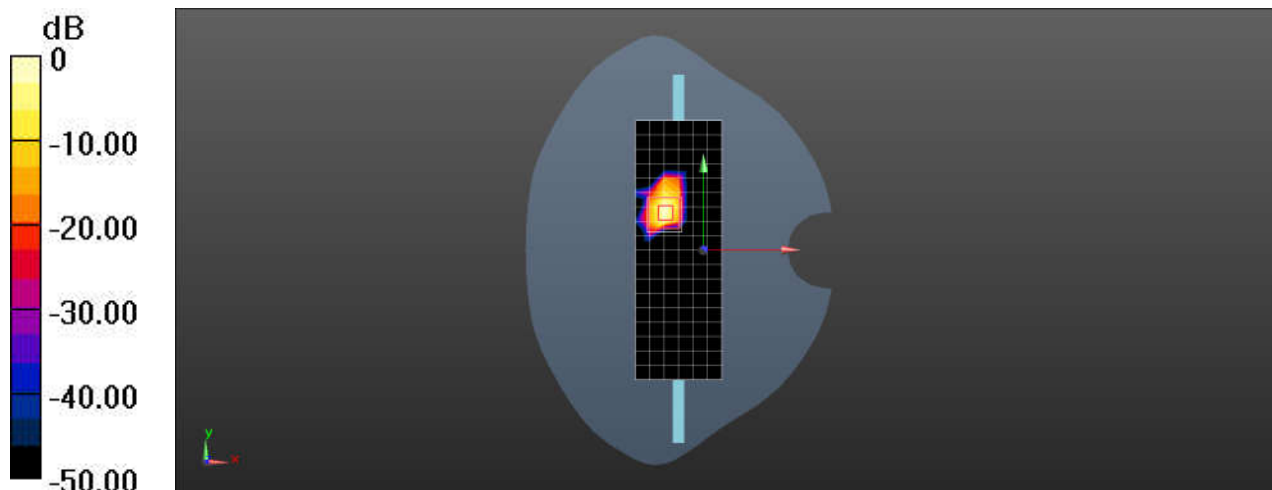
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 4.28 W/kg

SAR(1 g) = 0.864 W/kg; SAR(10 g) = 0.160 W/kg

Maximum value of SAR (measured) = 2.51 W/kg



Test Laboratory: SGS-SAR Lab

TF31B Wifi5G 802.11a 116CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5580 MHz; Duty Cycle: 1:1.053

Medium: HSL5G; Medium parameters used: $f = 5580 \text{ MHz}$; $\sigma = 5.104 \text{ S/m}$; $\epsilon_r = 35.67$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.12, 5.12, 5.12); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (7x19x1): Measurement grid: $dx=10\text{mm}$, $dy=10\text{mm}$

Maximum value of SAR (measured) = 1.86 W/kg

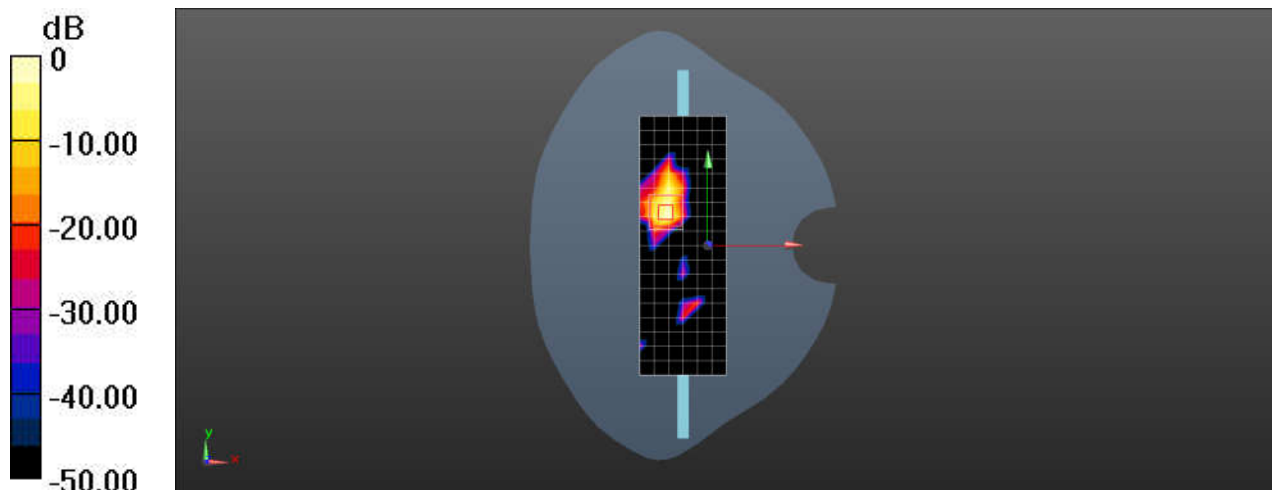
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=4\text{mm}$, $dy=4\text{mm}$, $dz=1.4\text{mm}$

Reference Value = 0 V/m ; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 4.23 W/kg

SAR(1 g) = 0.817 W/kg ; SAR(10 g) = 0.148 W/kg

Maximum value of SAR (measured) = 2.61 W/kg



Test Laboratory: SGS-SAR Lab

TF31B Wifi5G 802.11n-HT40 151CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, WI-FI(5GHz) (0); Frequency: 5755 MHz; Duty Cycle: 1:1.117

Medium: HSL5G; Medium parameters used: $f = 5755$ MHz; $\sigma = 5.301$ S/m; $\epsilon_r = 35.193$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(5.21, 5.21, 5.21); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (7x19x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 2.72 W/kg

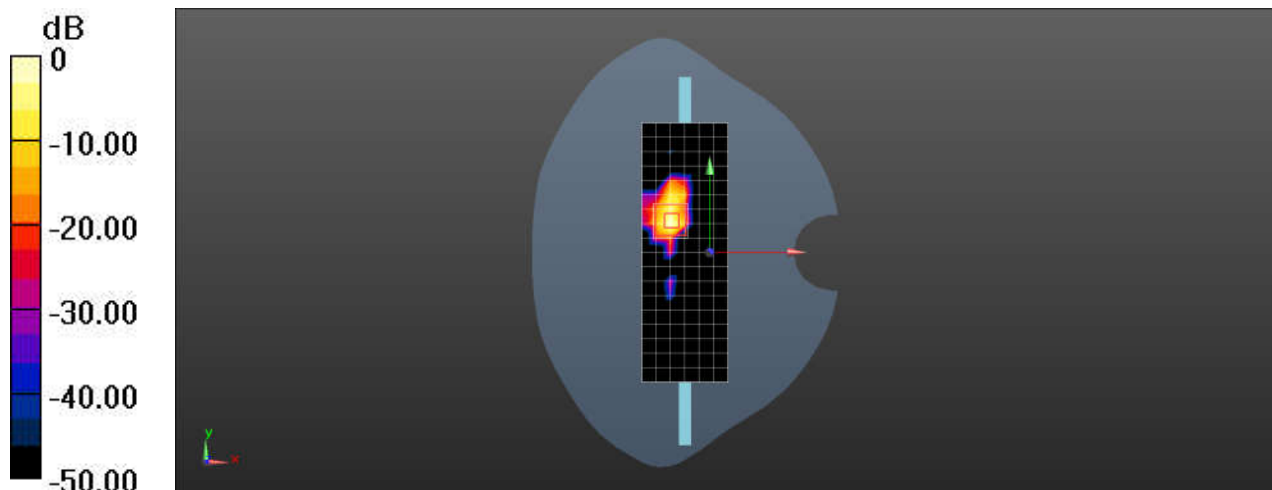
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 0 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 4.93 W/kg

SAR(1 g) = 0.835 W/kg; SAR(10 g) = 0.134 W/kg

Maximum value of SAR (measured) = 2.95 W/kg



Test Laboratory: SGS-SAR Lab

TF31B Bluetooth DH5 39CH Top side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, Bluetooth (0); Frequency: 2441 MHz; Duty Cycle: 1:1.3

Medium: HSL2450; Medium parameters used: $f = 2441$ MHz; $\sigma = 1.794$ S/m; $\epsilon_r = 38.291$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7767; ConvF(8.03, 8.03, 8.03); Calibrated: 2024/12/31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 7; Type: SAM; Serial: 1702
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Body/Area Scan (6x16x1): Measurement grid: dx=12mm, dy=12mm
Maximum value of SAR (measured) = 1.00 W/kg

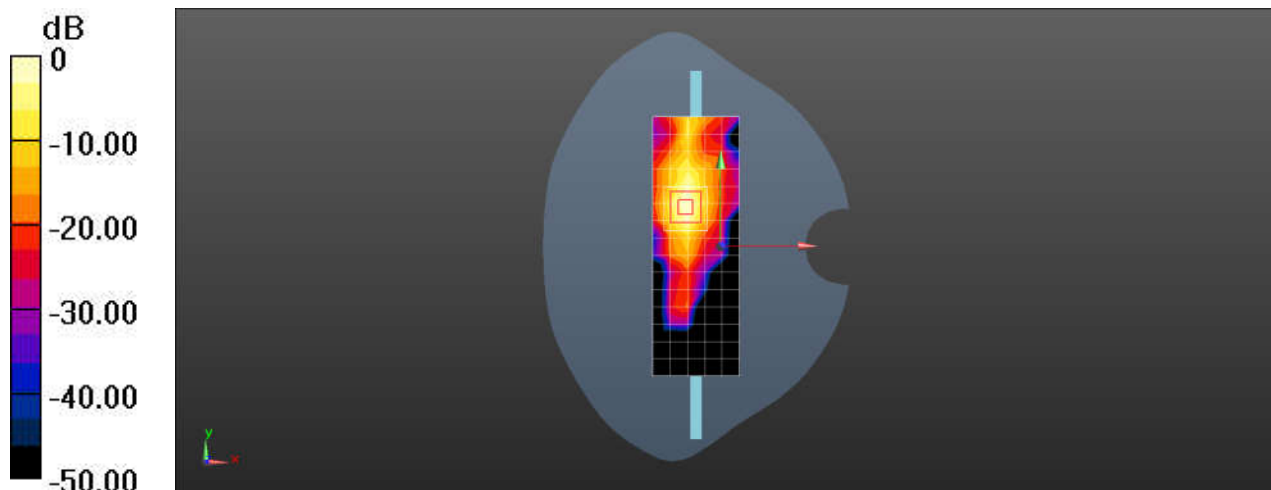
Configuration/Body/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.583 V/m; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 1.36 W/kg

SAR(1 g) = 0.555 W/kg; SAR(10 g) = 0.206 W/kg

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



WIFI6G 802.11ax 80M 103CH Top side 0mm

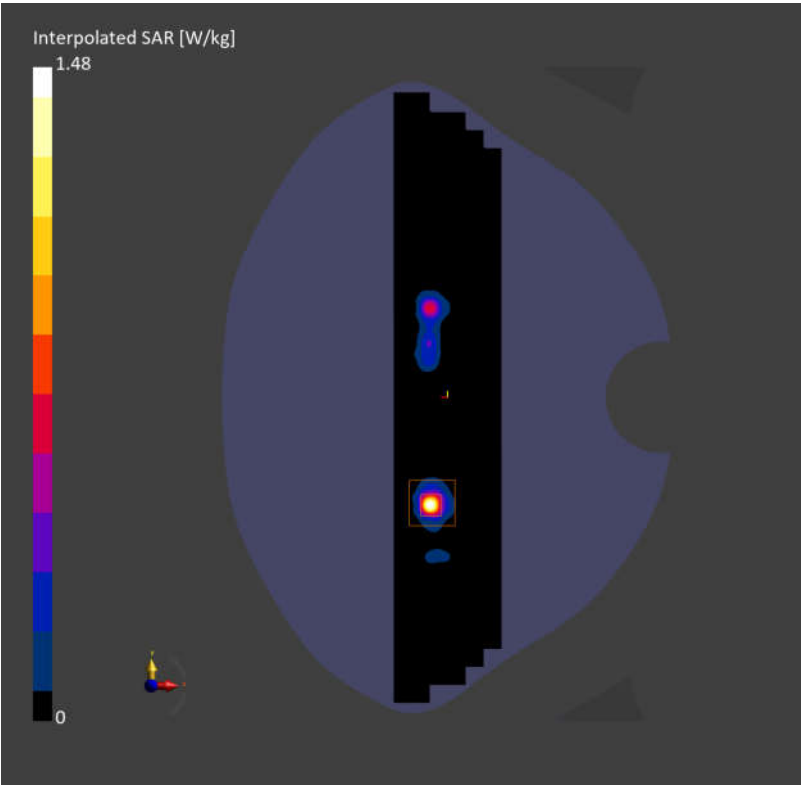
Communication System: U-NII-6; Frequency: 6465.000
Medium: HSL. Medium parameters used: $f=6465.000$ MHz; $\sigma=6.14$ S/m; $\epsilon_r=34.1$

- DASY8 Configuration:
- Probe: EX3DV4 - SN3801; ConvF(5.35, 5.35, 5.35); Calibrated: 2024-06-20
 - Sensor-Surface: 1.4 mm
 - Electronics: DAE4ip Sn1826; Calibrated: 2025-02-17
 - Phantom: Twin-SAM V8.0 (30deg probe tilt); Serial: 2155
 - Measurement Software: cDASY8 V16.2.0.1425

Area Scan (51.0 mm x 289.0 mm): Measurement Grid: 8.5 mm x 8.5 mm
SAR (1g) = 0.709 W/kg; SAR (10g) = 0.122 W/kg;

Zoom Scan (23.4 mm x 23.4 mm x 25.0 mm): Measurement Grid: 2.6 mm x 2.6 mm x 1.2 mm
Power Drift = 0.15 dB
SAR (1g) = 0.711 W/kg; SAR (10g) = 0.127 W/kg;

psAPD (4.0cm2, sq) [W/m2]	3.38
M2/M1 [%]	56.7
Dist 3dB Peak [mm]	4.0



Test Laboratory: SGS-SAR Lab

TF31B NFC 13.56MHz Back side 0mm

DUT: TF31B; Type: Wireless Data Terminal; Serial: 867939070006177

Communication System: UID 0, NFC (0); Frequency: 13.56 MHz; Duty Cycle: 1:1

Medium: HSL_13.56; Medium parameters used: $f = 14$ MHz; $\sigma = 0.745$ S/m; $\epsilon_r = 53.174$; $\rho = 1055$ kg/m³

Phantom section: Flat Section

DASY 5 Configuration:

- Probe: EX3DV4 - SN7735; ConvF(13.68, 13.51, 13.73); Calibrated: 2025/01/29
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1245; Calibrated: 2024/06/05
- Phantom: SAM 3; Type: ELI5; Serial: TP:1143
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Configuration/Ch/Area Scan (8x13x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.0331 W/kg

Configuration/Ch/Zoom Scan (6x7x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 0.2317 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 0.107 W/kg

SAR(1 g) = 0.026 W/kg; SAR(10 g) = 0.008 W/kg

Maximum value of SAR (measured) = 0.0431 W/kg

