

Date/Time: 5/17/2016 9:54:35 PM

Test Laboratory: Intertek

File Name: [CDMA Cell Band_No Pouch.da52:4](#)

CDMA Cell Band_No Pouch (Back Side, Middle Channel

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA Cell Band;
Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.986 \text{ S/m}$; $\epsilon_r = 53.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Back Side Mid Channel/Area Scan (81x101x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.49 W/kg

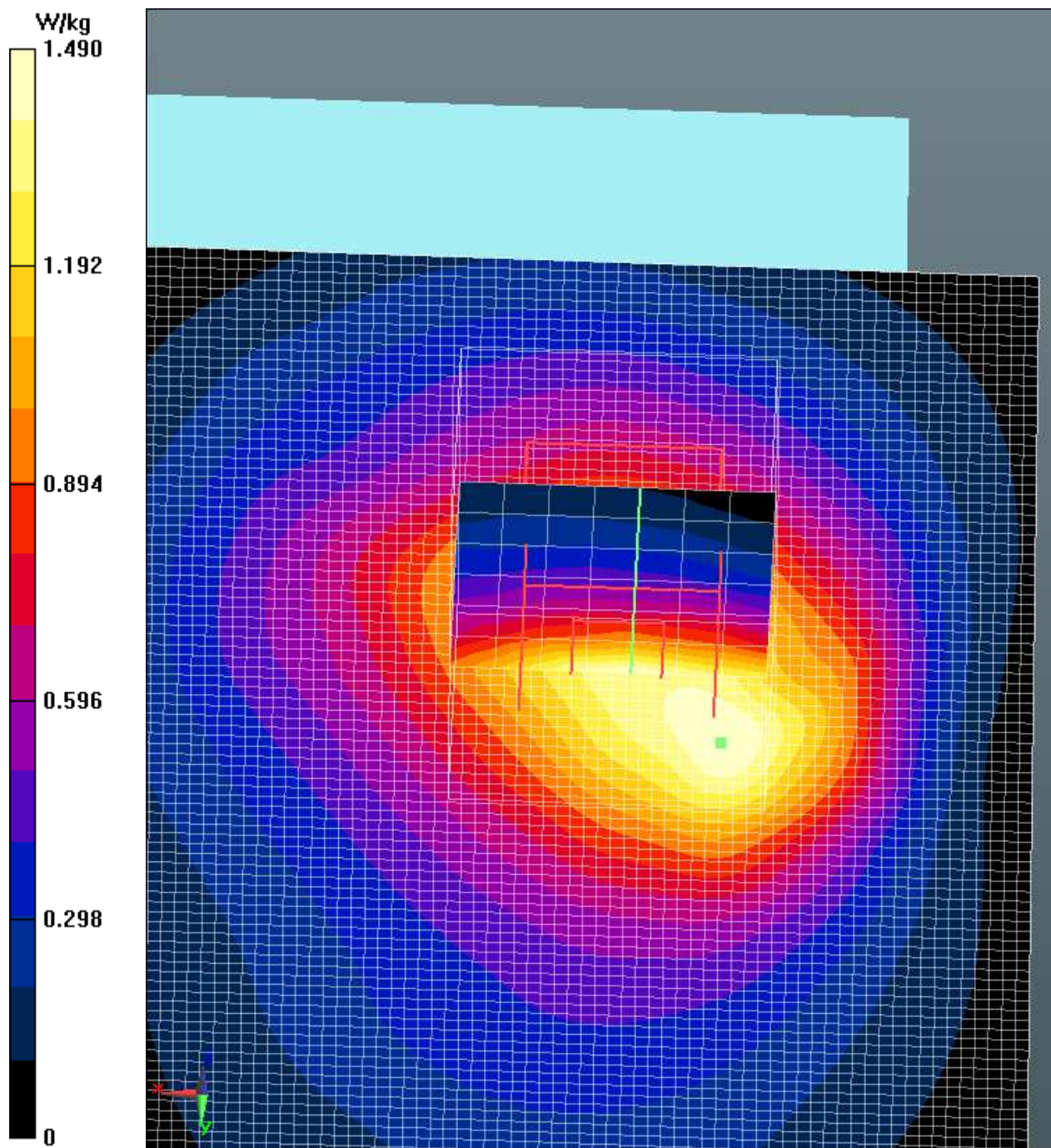
WWAN Flat-Section MSL Testing/Back Side Mid Channel/Zoom Scan (8x9x7)/Cube 0: Measurement
grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 29.77 V/m; Power Drift = 0.13 dB

Peak SAR (extrapolated) = 1.62 W/kg

SAR(1 g) = 1.09 W/kg; SAR(10 g) = 0.756 W/kg

Maximum value of SAR (measured) = 1.39 W/kg



Test Laboratory: Intertek
File Name: [CDMA Cell Band_No Pouch.da52:4](#)

CDMA Cell Band_No Pouch

Procedure Notes:

DUT: CrossMatch; Serial

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA Cell Band;
Frequency: 824.7 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 825 \text{ MHz}$; $\sigma = 0.975 \text{ S/m}$; $\epsilon_r = 53.62$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

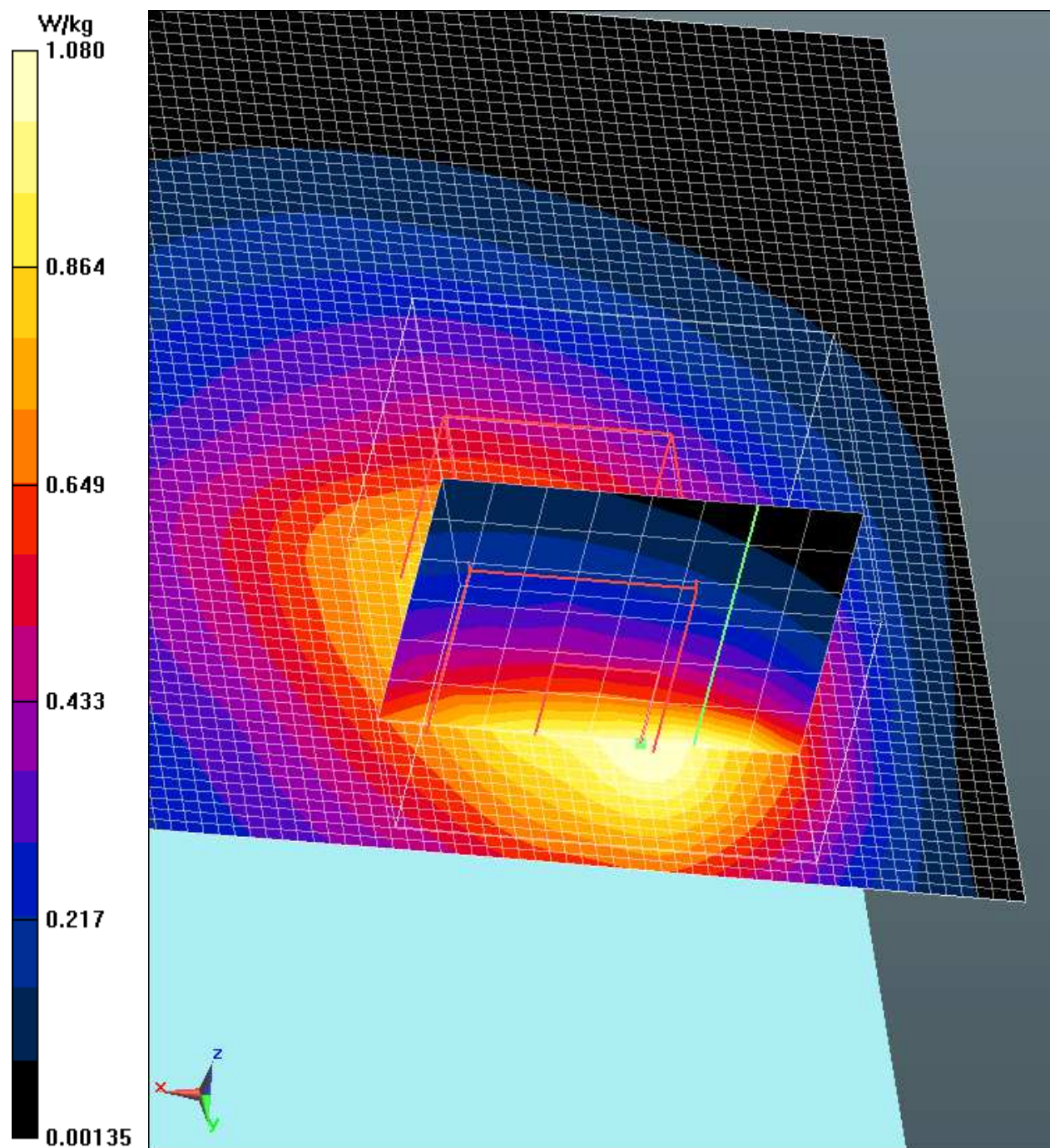
DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Back Side Low channel/Area Scan (81x81x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 1.08 W/kg

WWAN Flat-Section MSL Testing/Back Side Low channel/Zoom Scan (9x9x7)/Cube 0: Measurement
grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$
Reference Value = 24.69 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.744 W/kg; SAR(10 g) = 0.522 W/kg
Maximum value of SAR (measured) = 1.02 W/kg



Test Laboratory: Intertek

File Name: [CDMA Cell Band_No Pouch.da52:4](#)

CDMA Cell Band_No Pouch (Back Side, High Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA Cell Band;
Frequency: 848.31 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 848.31$ MHz; $\sigma = 0.998$ S/m; $\epsilon_r = 53.445$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)),
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Back Side High Channel/Area Scan (81x81x1): Interpolated grid:
dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.881 W/kg

WWAN Flat-Section MSL Testing/Back Side High Channel/Zoom Scan (9x10x7)/Cube 0:

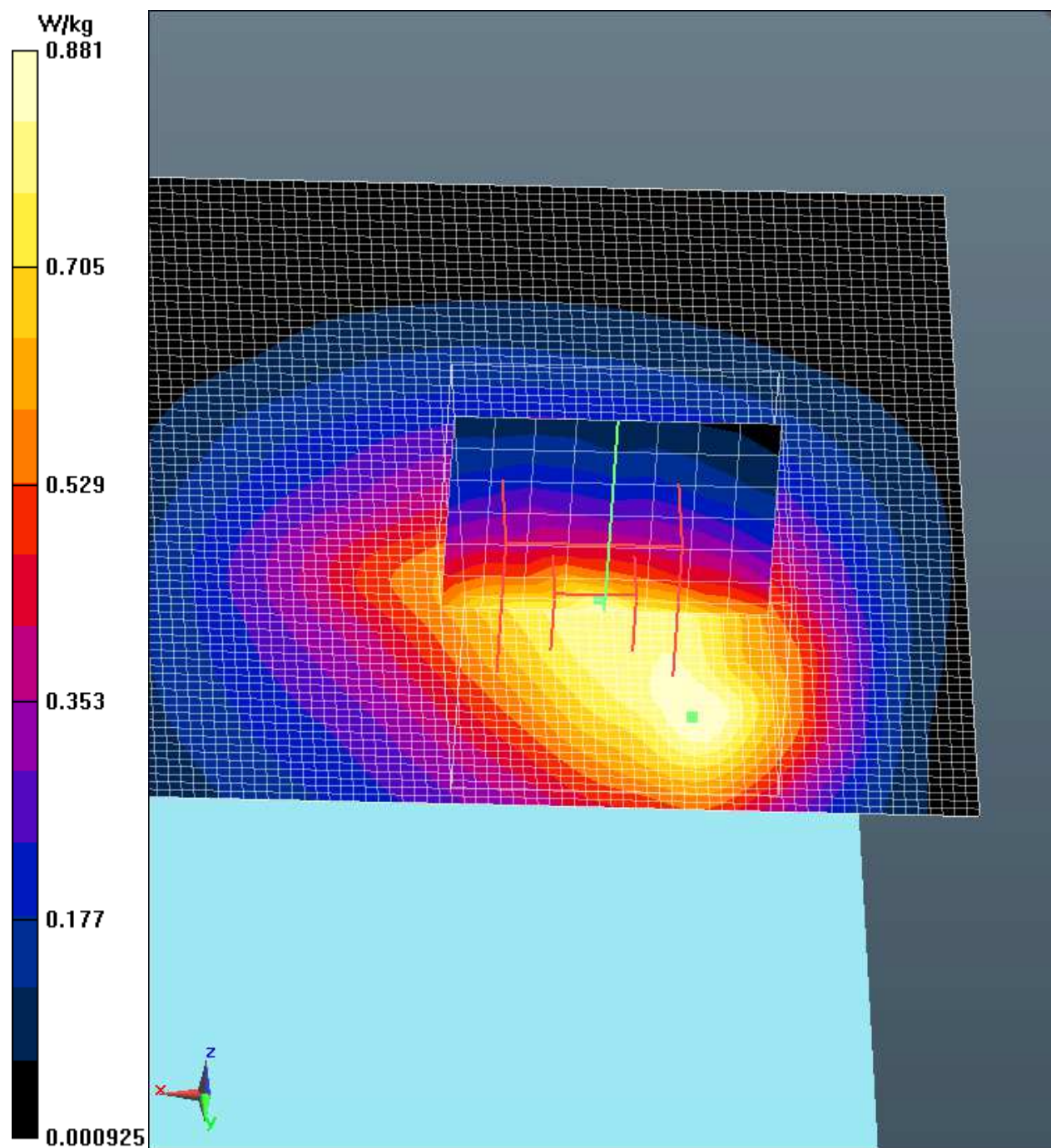
Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 23.92 V/m; Power Drift = 0.34 dB

Peak SAR (extrapolated) = 0.970 W/kg

SAR(1 g) = 0.660 W/kg; SAR(10 g) = 0.460 W/kg

Maximum value of SAR (measured) = 0.863 W/kg



Test Laboratory: Intertek

File Name: [CDMA Cell Band_No Pouch.da52:4](#)

CDMA Cell Band_No Pouch (Front Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA Cell Band;
Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.986 \text{ S/m}$; $\epsilon_r = 53.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Front Side Mid Channel/Area Scan (81x101x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.941 W/kg

WWAN Flat-Section MSL Testing/Front Side Mid Channel/Zoom Scan (10x8x7)/Cube 0:

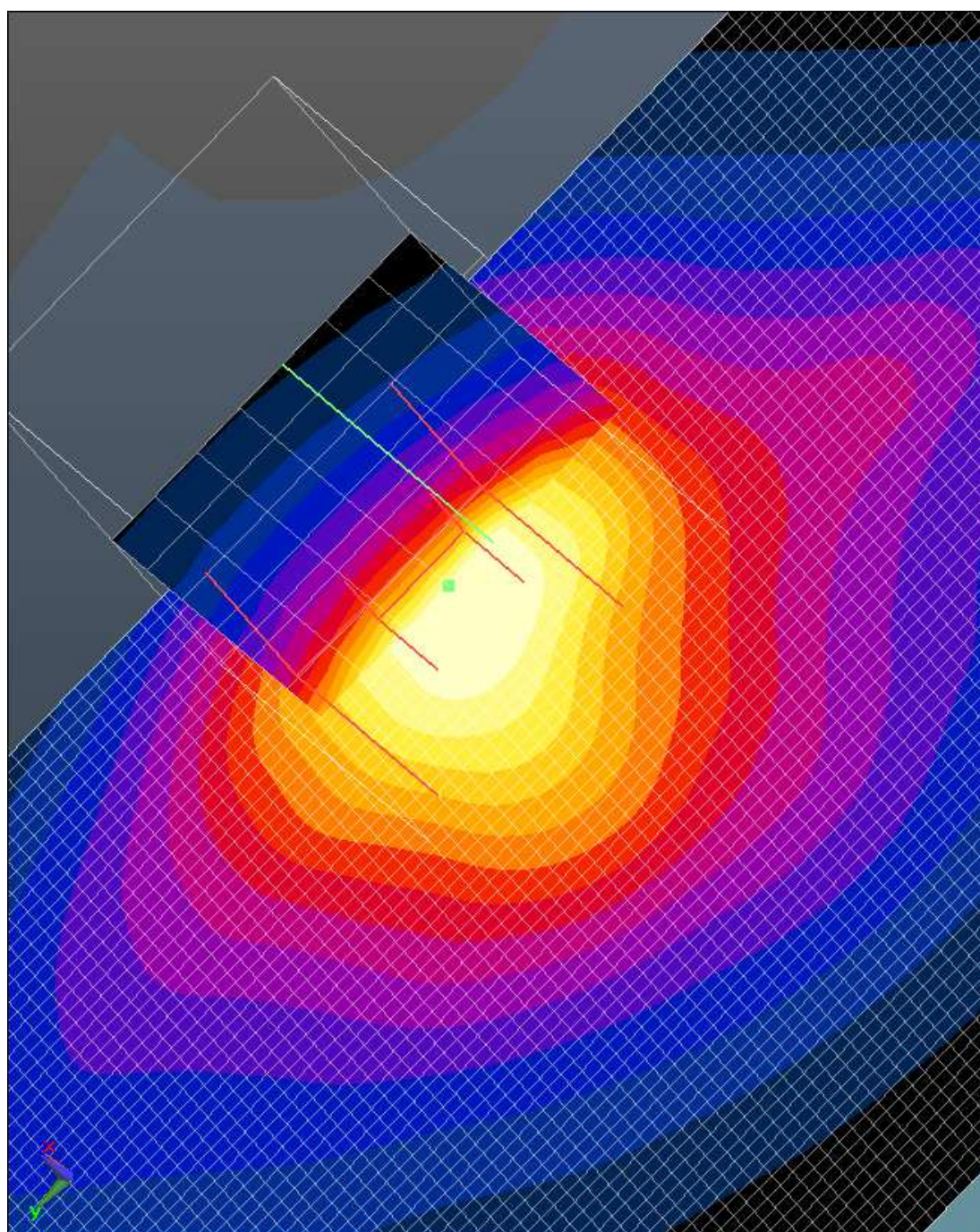
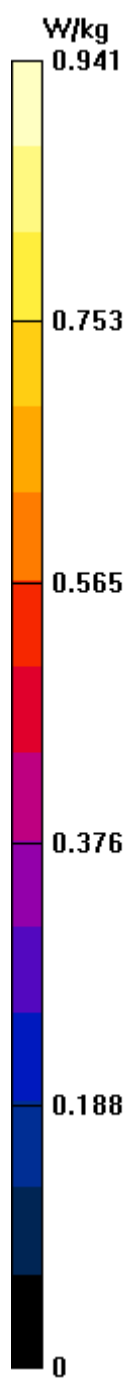
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.81 V/m ; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 1.20 W/kg

SAR(1 g) = 0.742 W/kg ; SAR(10 g) = 0.489 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.03 W/kg



Test Laboratory: Intertek

File Name: [CDMA Cell Band_No Pouch.da52:4](#)

CDMA Cell Band_No Pouch (Left Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA Cell Band;
Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.986 \text{ S/m}$; $\epsilon_r = 53.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Left Side Mid Channel/Area Scan (81x101x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.215 W/kg

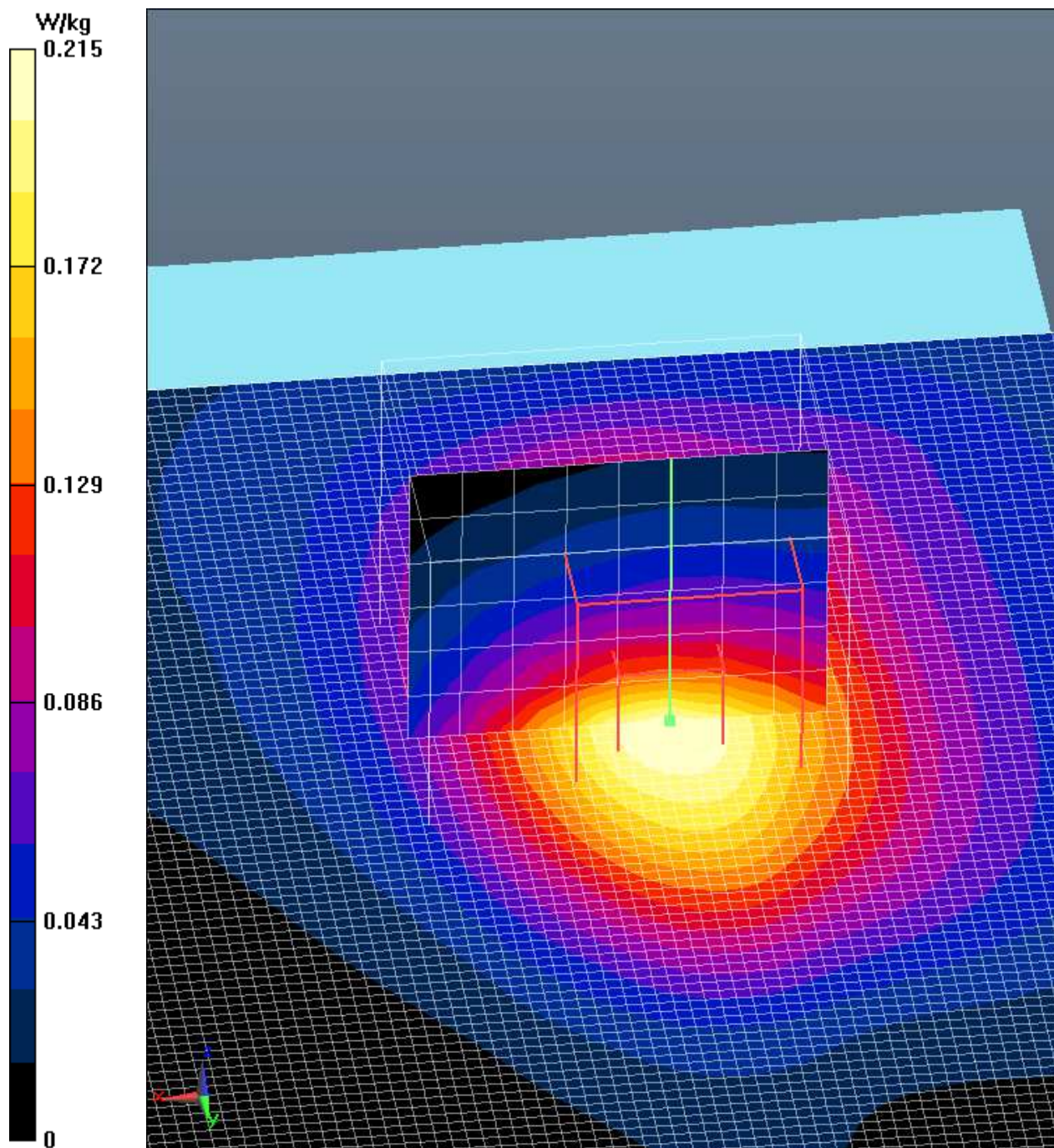
WWAN Flat-Section MSL Testing/Left Side Mid Channel/Zoom Scan (9x8x7)/Cube 0: Measurement
grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 12.64 V/m ; Power Drift = 0.14 dB

Peak SAR (extrapolated) = 0.244 W/kg

SAR(1 g) = 0.165 W/kg ; SAR(10 g) = 0.112 W/kg (SAR corrected for target medium)

Maximum value of SAR (measured) = 0.218 W/kg



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Test Laboratory: Intertek

File Name: [CDMA Cell Band_No Pouch.da52:4](#)

CDMA Cell Band_No Pouch (Right Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA Cell Band;
Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 836.52 \text{ MHz}$; $\sigma = 0.986 \text{ S/m}$; $\epsilon_r = 53.519$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Right Side Mid Channel/Area Scan (81x101x1): Interpolated grid:
 $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

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

WWAN Flat-Section MSL Testing/Right Side Mid Channel/Zoom Scan (10x9x7)/Cube 0:

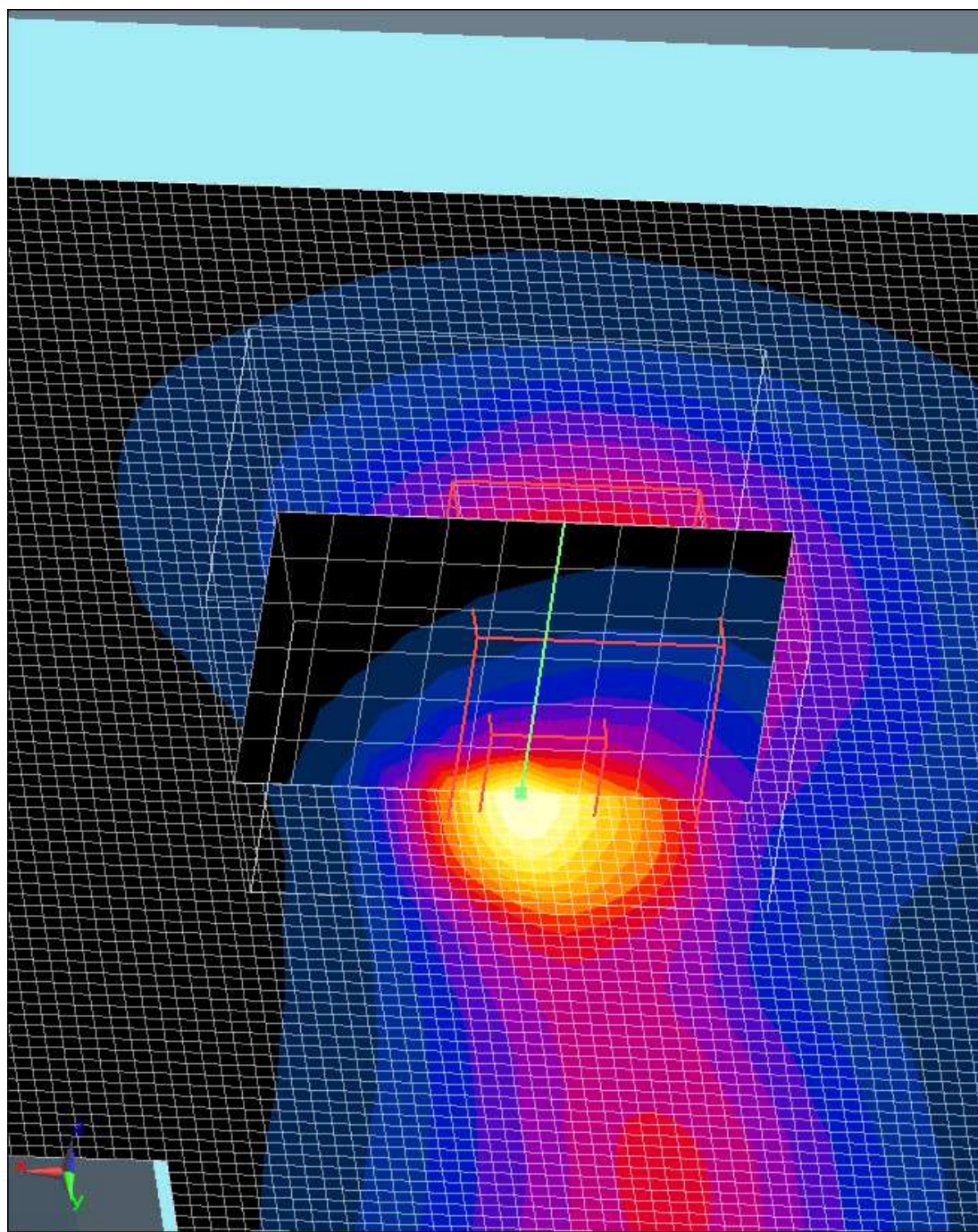
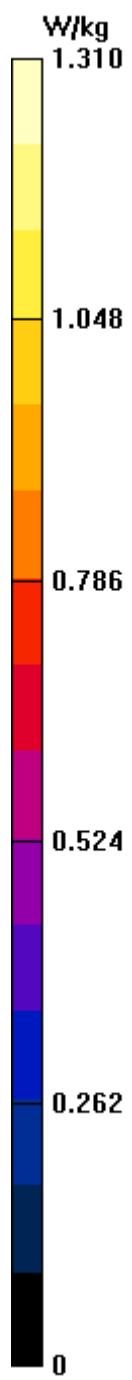
Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 23.63 V/m; Power Drift = 0.25 dB

Peak SAR (extrapolated) = 1.82 W/kg

SAR(1 g) = 0.863 W/kg; SAR(10 g) = 0.502 W/kg

Maximum value of SAR (measured) = 1.44 W/kg



Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch (Back Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Back Side Mid/Area Scan (81x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 5.56 W/kg

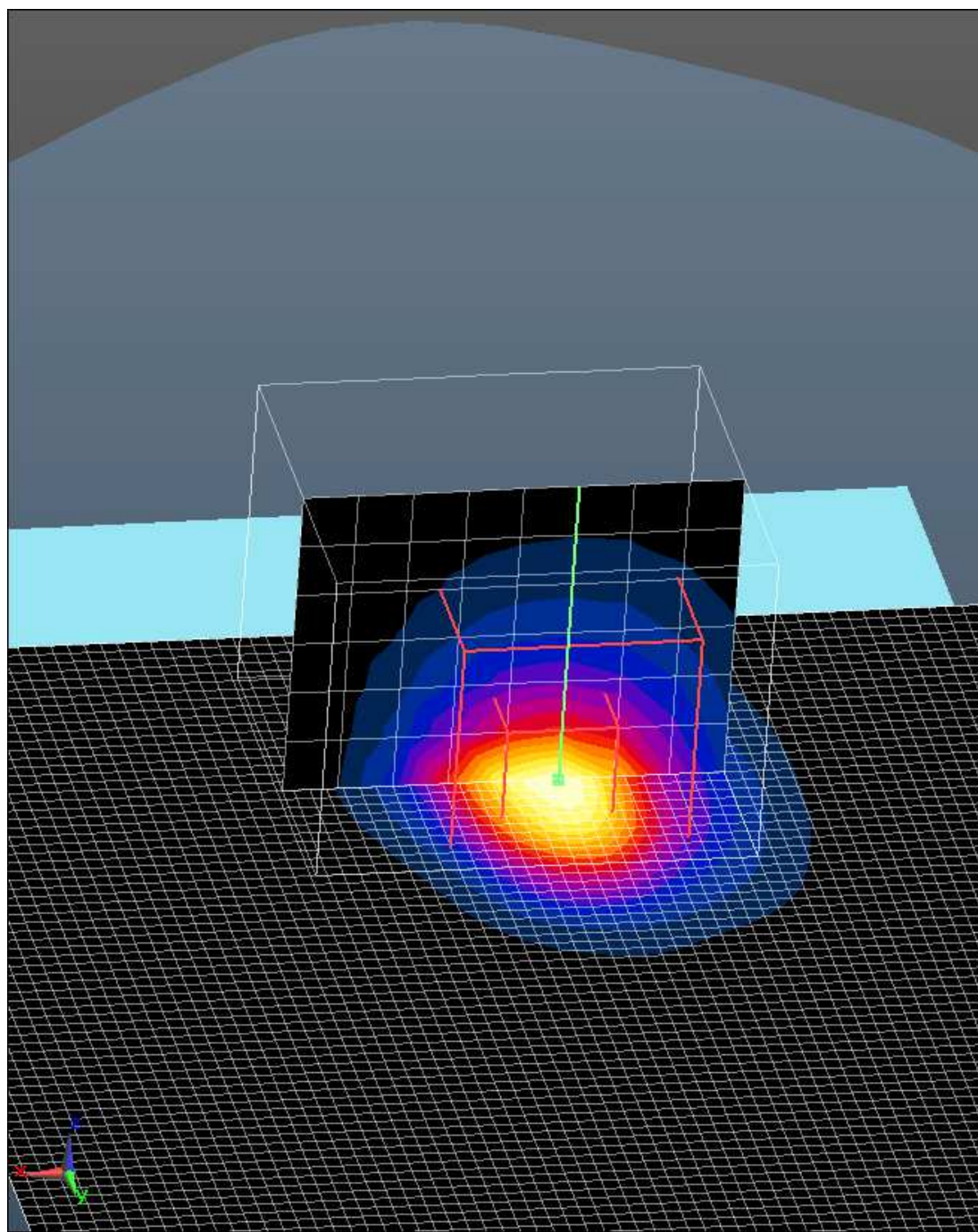
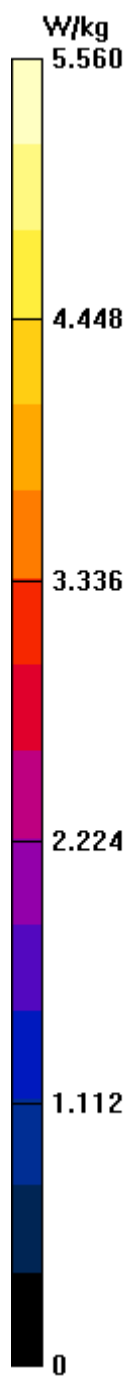
WWAN Flat-Section MSL Testing/Back Side Mid/Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 46.52 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 6.12 W/kg

SAR(1 g) = 3.34 W/kg; SAR(10 g) = 1.7 W/kg

Maximum value of SAR (measured) = 5.11 W/kg



Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch (Front Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Front Side Mid/Area Scan (81x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.746 W/kg

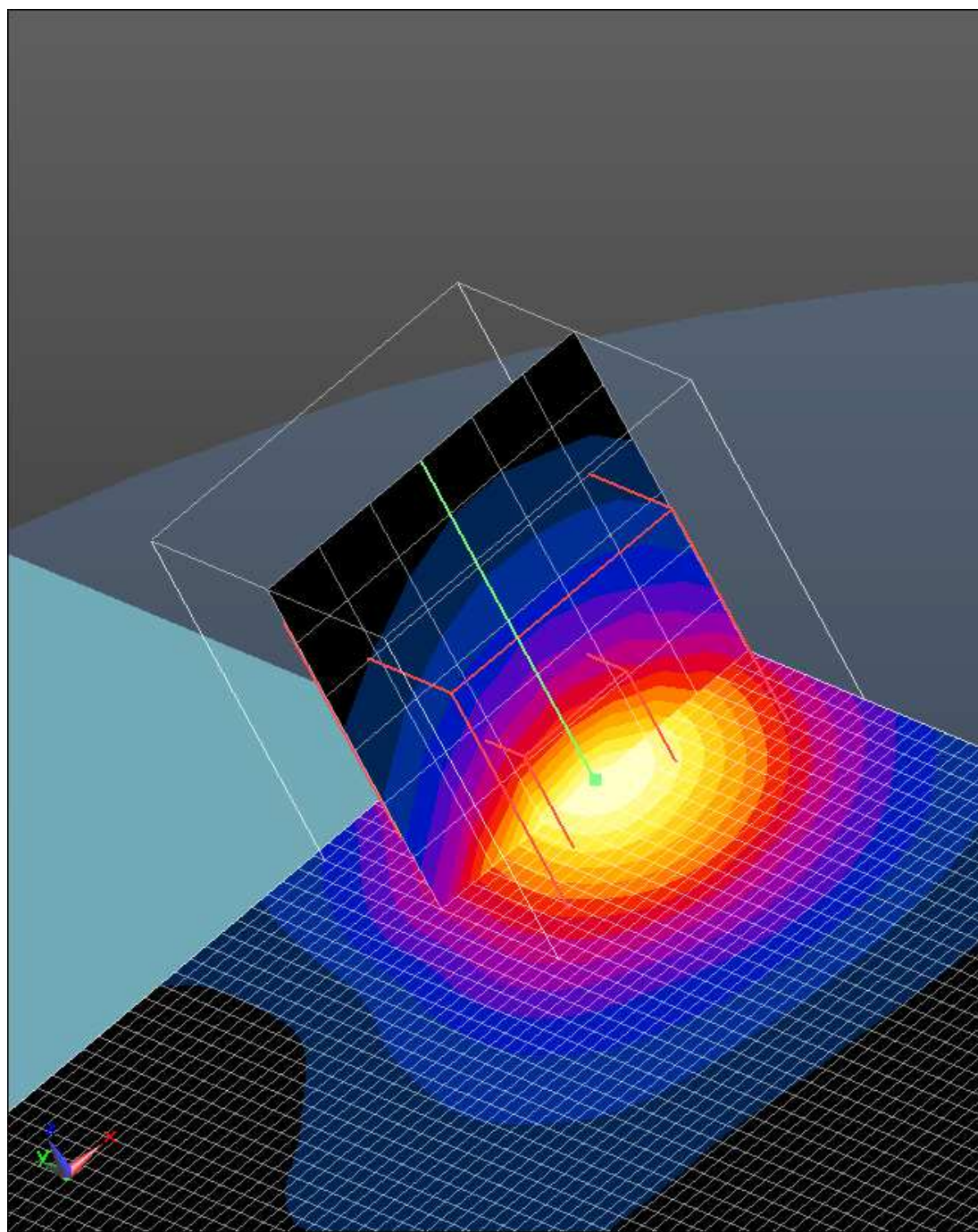
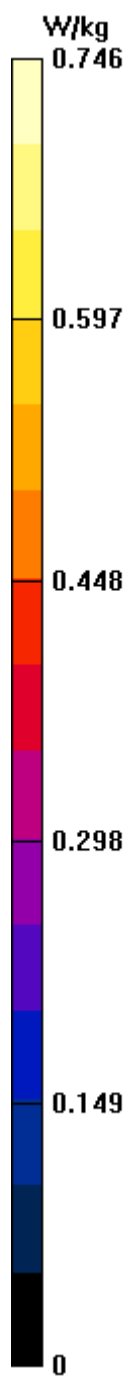
WWAN Flat-Section MSL Testing/Front Side Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 5.929 V/m ; Power Drift = 0.22 dB

Peak SAR (extrapolated) = 0.883 W/kg

SAR(1 g) = 0.518 W/kg ; SAR(10 g) = 0.293 W/kg

Maximum value of SAR (measured) = 0.753 W/kg



Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch (Right Side Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Right Side Mid/Area Scan (81x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0295 W/kg

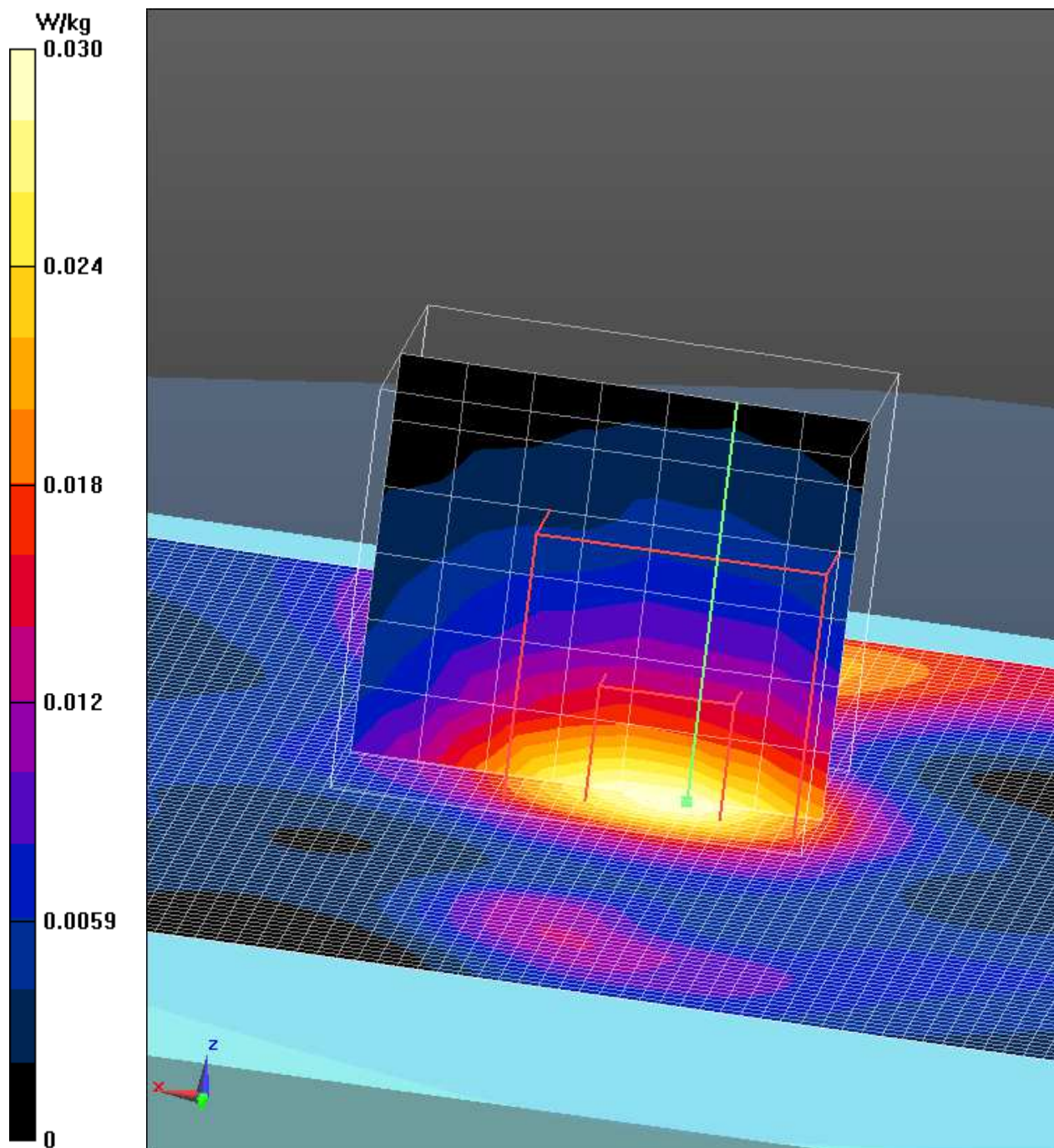
WWAN Flat-Section MSL Testing/Right Side Mid/Zoom Scan (8x8x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.156 V/m ; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.0300 W/kg

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

Maximum value of SAR (measured) = 0.0251 W/kg



Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch (Left Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)),
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASYS 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Left Side Mid 2/Area Scan (81x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 11.5 W/kg

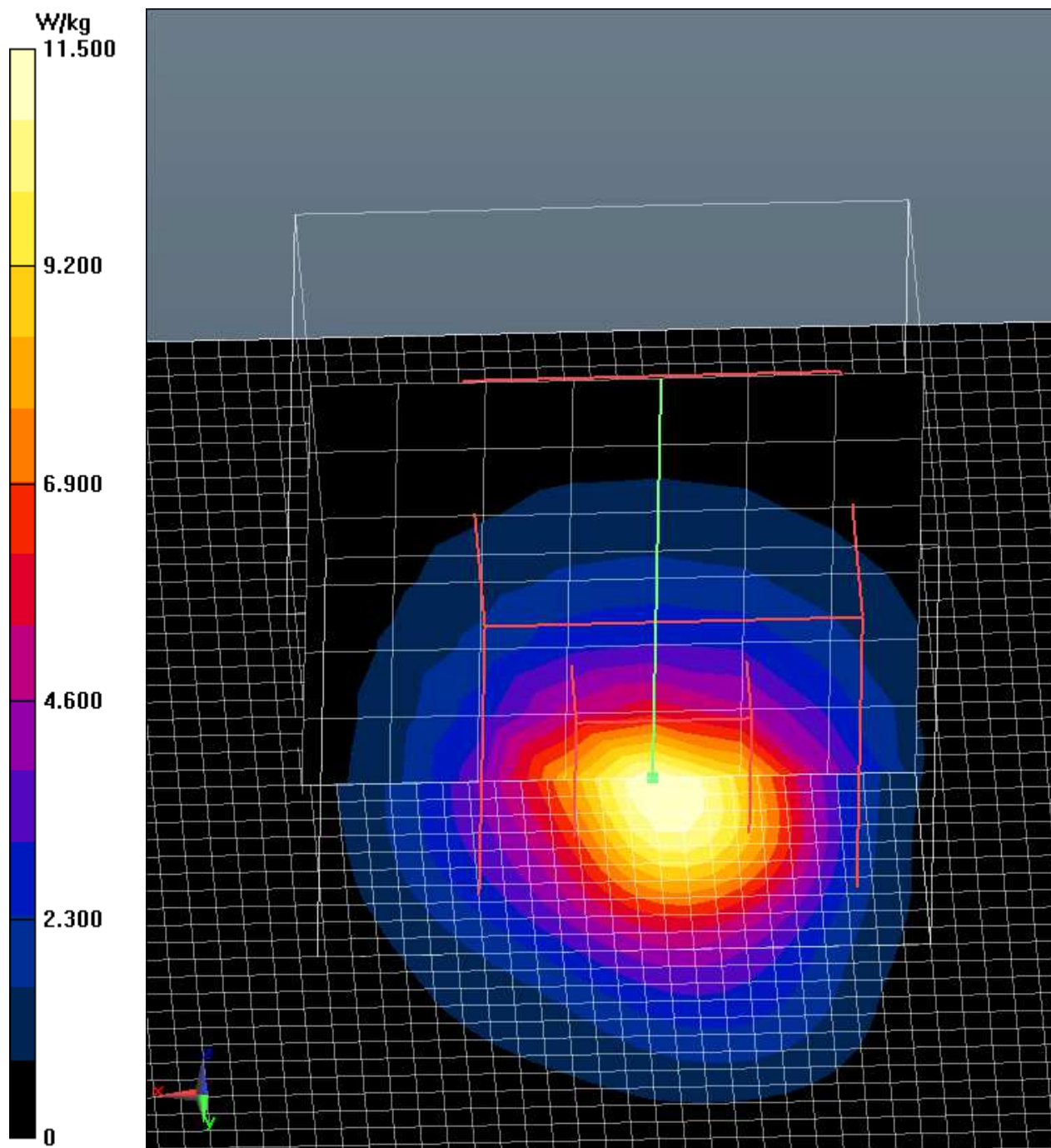
WWAN Flat-Section MSL Testing/Left Side Mid 2/Zoom Scan (8x7x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 16.77 V/m; Power Drift = -0.29 dB

Peak SAR (extrapolated) = 12.5 W/kg

SAR(1 g) = 6.32 W/kg; SAR(10 g) = 3 W/kg

Maximum value of SAR (measured) = 10.4 W/kg



Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch (Back Side, Low Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1880 MHz; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.51 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$, Medium parameters used: $f = 1852.4 \text{ MHz}$; $\sigma = 1.49 \text{ S/m}$; $\epsilon_r = 53.23$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Left Side Mid 2/Area Scan (81x81x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 11.5 W/kg

WWAN Flat-Section MSL Testing/Back Side Low/Area Scan (81x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 8.59 W/kg

WWAN Flat-Section MSL Testing/Back Side Low/Zoom Scan (9x8x7)/Cube 0: Measurement grid:

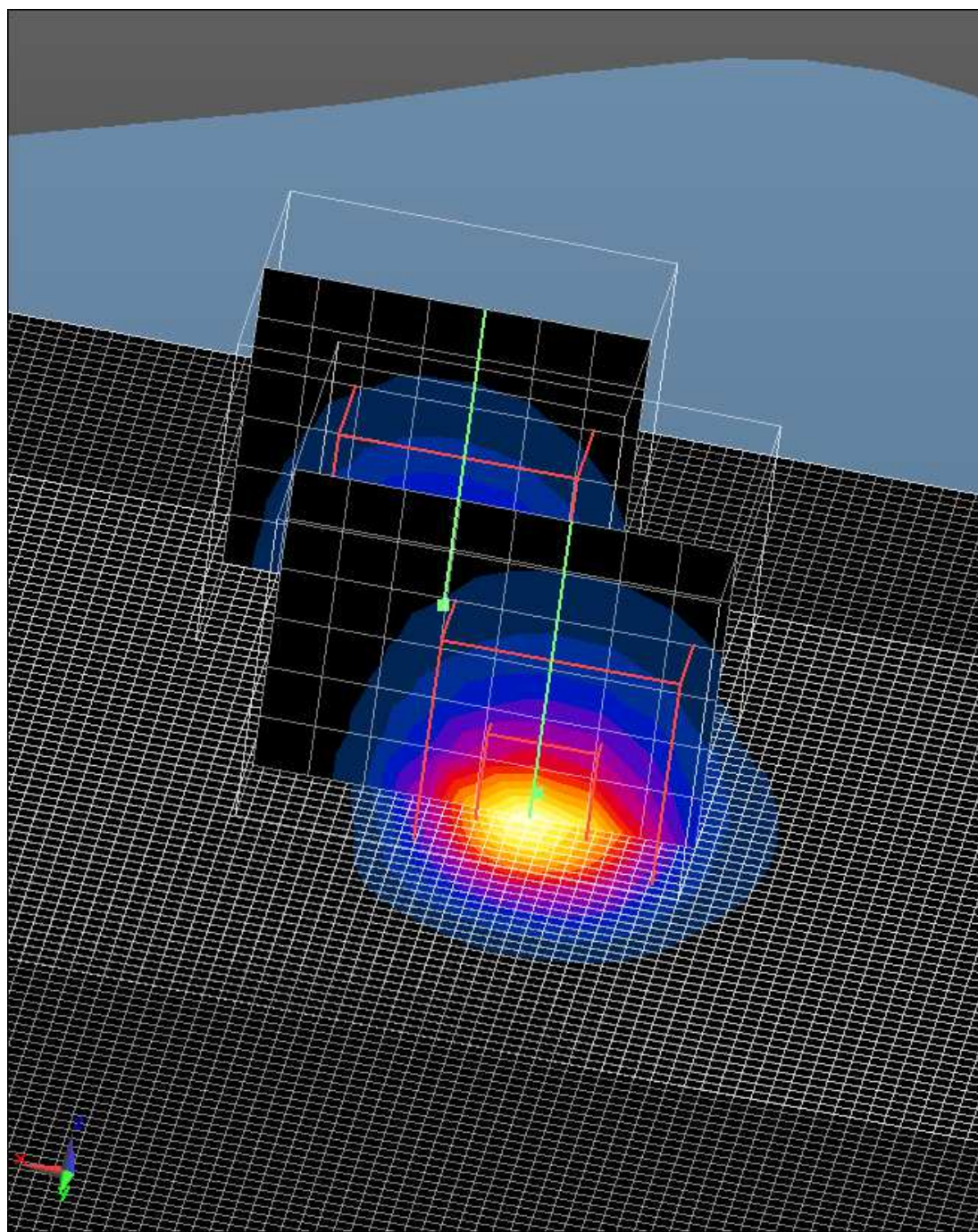
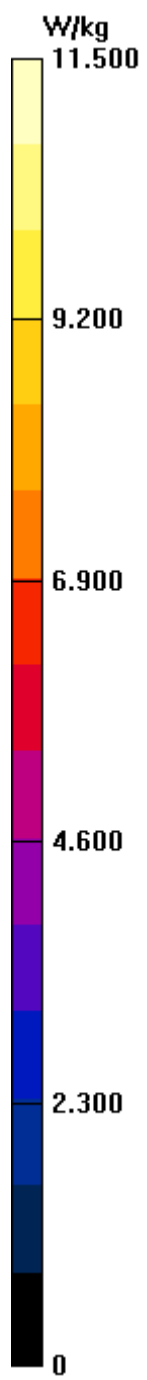
$dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 49.04 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 9.30 W/kg

SAR(1 g) = 5.07 W/kg; SAR(10 g) = 2.55 W/kg

Maximum value of SAR (measured) = 7.76 W/kg



Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch (Left Side, Low Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 1852.4$ MHz; $\sigma = 1.49$ S/m; $\epsilon_r = 53.23$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)),
Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Left Side Low/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 10.2 W/kg

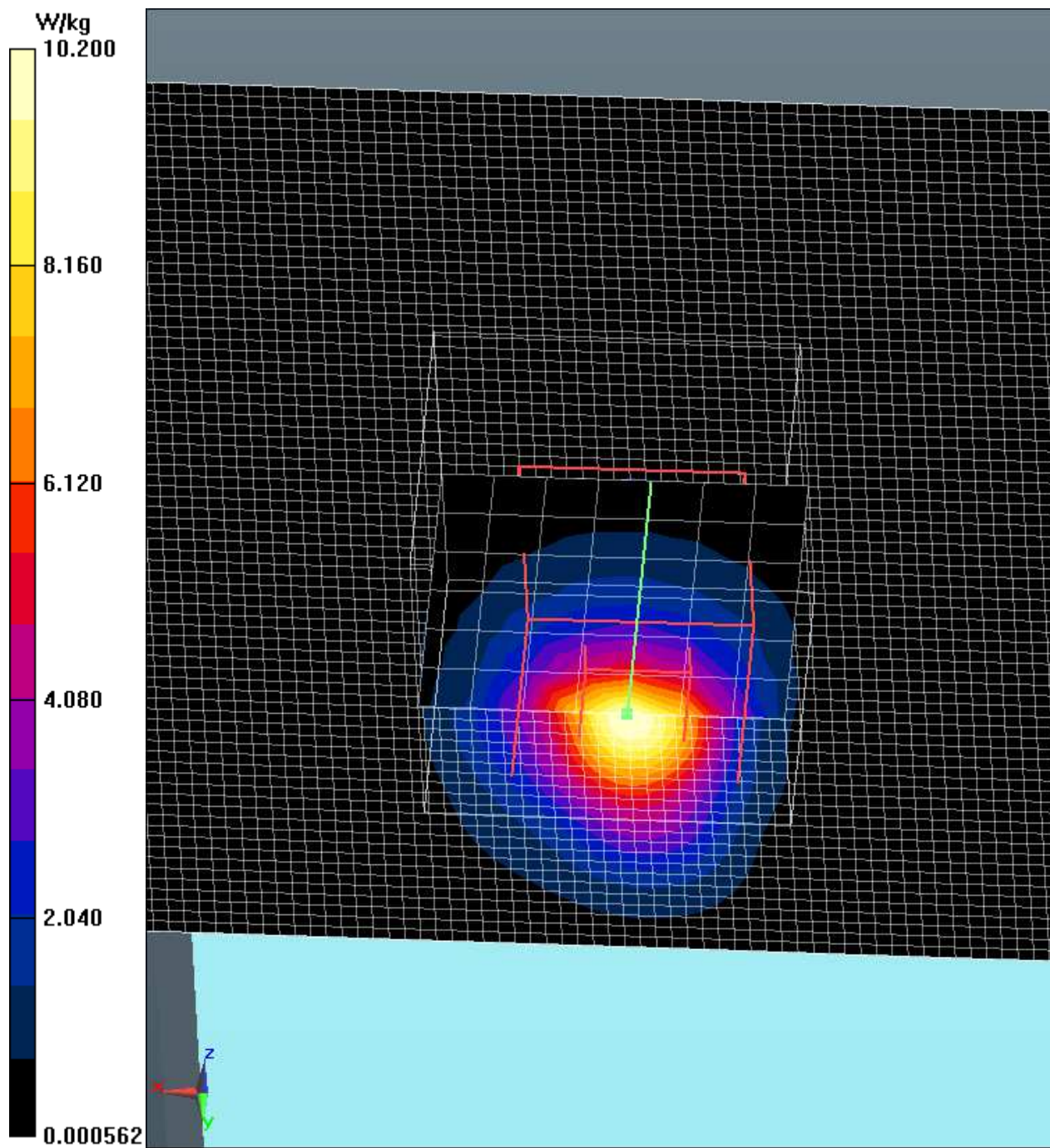
WWAN Flat-Section MSL Testing/Left Side Low/Zoom Scan (8x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.62 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 12.4 W/kg

SAR(1 g) = 6.55 W/kg; SAR(10 g) = 3.16 W/kg

Maximum value of SAR (measured) = 10.3 W/kg



Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch (Back Side, High Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1909.92 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated): $f = 1909.92 \text{ MHz}$; $\sigma = 1.543 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Back Side High/Area Scan (81x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 9.56 W/kg

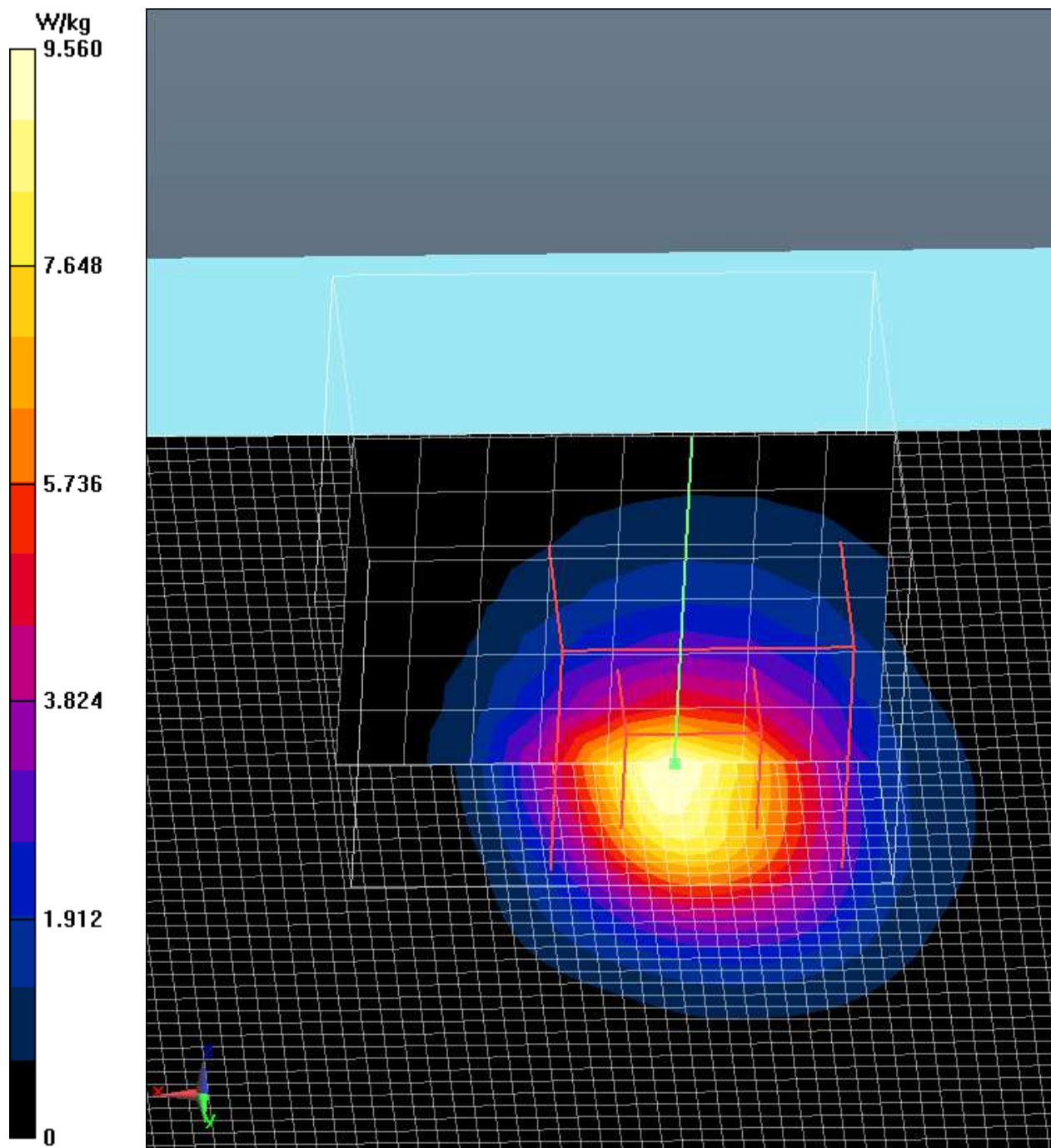
WWAN Flat-Section MSL Testing/Back Side High/Zoom Scan (9x8x7)/Cube 0: Measurement grid:
 $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 50.73 V/m ; Power Drift = 0.09 dB

Peak SAR (extrapolated) = 10.2 W/kg

SAR(1 g) = 5.51 W/kg ; SAR(10 g) = 2.75 W/kg

Maximum value of SAR (measured) = 8.43 W/kg



Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch (Left Side, High Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1909.92 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated): $f = 1909.92 \text{ MHz}$; $\sigma = 1.543 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Left Side High Channel_New SW Version/Area Scan (81x101x1):

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

Maximum value of SAR (interpolated) = 13.7 W/kg

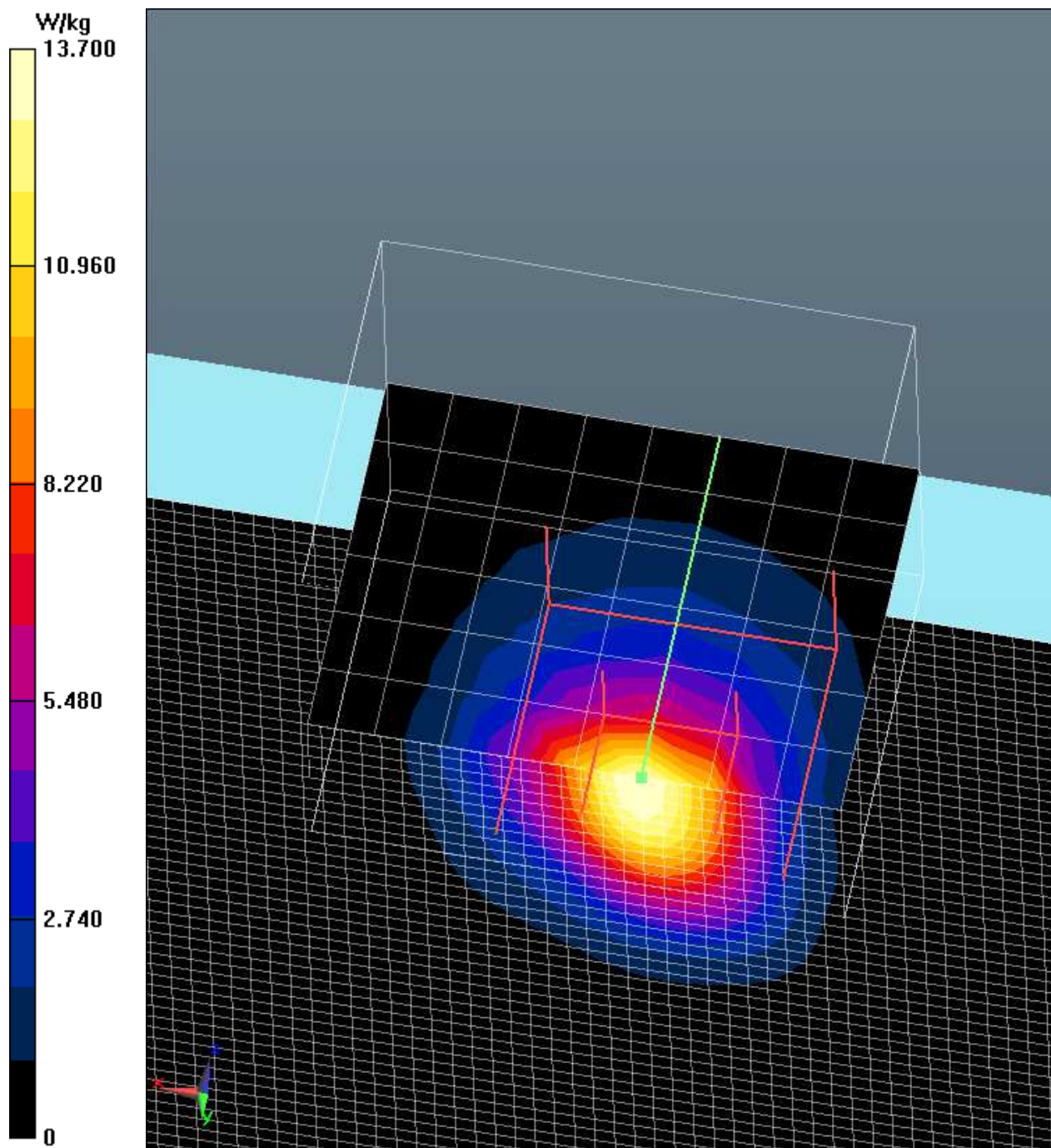
WWAN Flat-Section MSL Testing/Left Side High Channel_New SW Version/Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 69.91 V/m ; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 16.7 W/kg

SAR(1 g) = 8.16 W/kg ; SAR(10 g) = 3.77 W/kg

Maximum value of SAR (measured) = 13.6 W/kg



Date/Time: 6/28/2016 11:07:47 AM

Test Laboratory: Intertek

File Name: [CDMA PCS Band No Pouch Final for Report.da52:4](#)

CDMA PCS Band (Left Side, High Channel)_Repeatability Scan

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1909.92 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated): $f = 1909.92 \text{ MHz}$; $\sigma = 1.543 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

WWAN Flat-Section MSL Testing/Repeatability_Left Side High Channel_New SW Version 2/Area Scan (81x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 12.1 W/kg

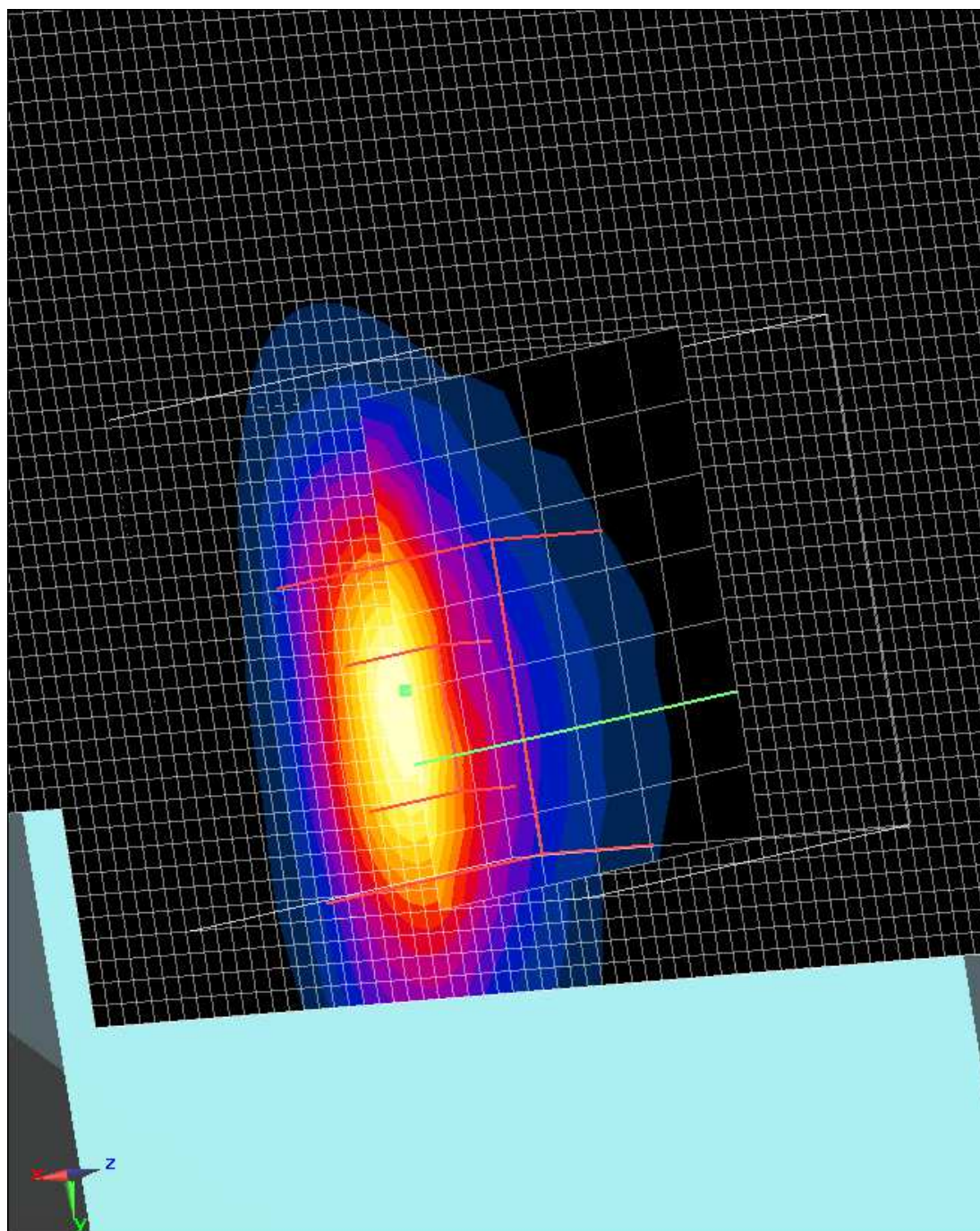
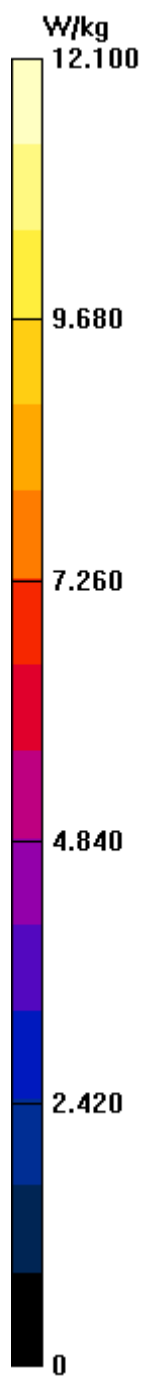
WWAN Flat-Section MSL Testing/Repeatability_Left Side High Channel_New SW Version 2/Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 0.788 V/m ; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 13.9 W/kg

SAR(1 g) = 7.04 W/kg ; SAR(10 g) = 3.4 W/kg

Maximum value of SAR (measured) = 11.1 W/kg



Date/Time: 7/6/2016 10:34:24 AM

Test Laboratory: Intertek

File Name: [CDMA PCS Band_No Pouch_Final for Report.da52:4](#)

CDMA PCS Band_No Pouch_(Left Side, High Channel)_Second Repeatability Scan

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic CDMA (0); Communication System Band: CDMA PCS Band;
Frequency: 1909.92 MHz; Duty Cycle: 1:1

Medium parameters used (extrapolated): $f = 1909.92 \text{ MHz}$; $\sigma = 1.543 \text{ S/m}$; $\epsilon_r = 53.28$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

WWAN Flat-Section MSL Testing/2nd Repeatability_Left Side High Channel_New SW Version/Area Scan (81x101x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 12.5 W/kg

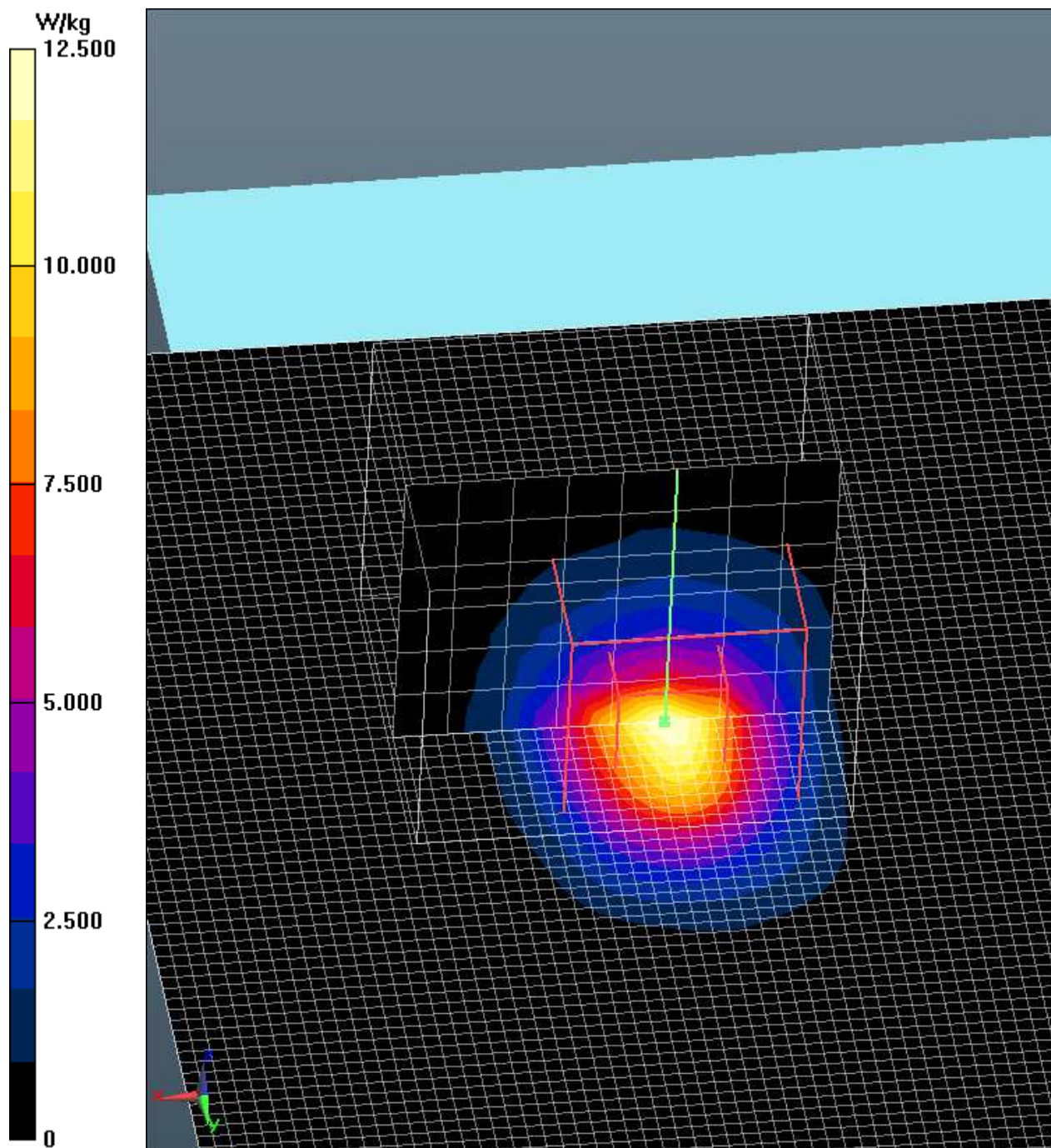
WWAN Flat-Section MSL Testing/2nd Repeatability_Left Side High Channel_New SW Version/Zoom Scan (9x8x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 40.583 V/m ; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 14.5 W/kg

SAR(1 g) = 7.22 W/kg ; SAR(10 g) = 3.42 W/kg

Maximum value of SAR (measured) = 11.8 W/kg



Date/Time: 5/26/2016 4:06:07 PM

Test Laboratory: Intertek
File Name: [802.11B_No Pouch.da52:1](#)

802.11B_No Pouch (Back Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic 802.11b/g/n (0); Communication System Band: 2.4 GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.034$ S/m; $\epsilon_r = 50.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section
Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASYS Configuration:

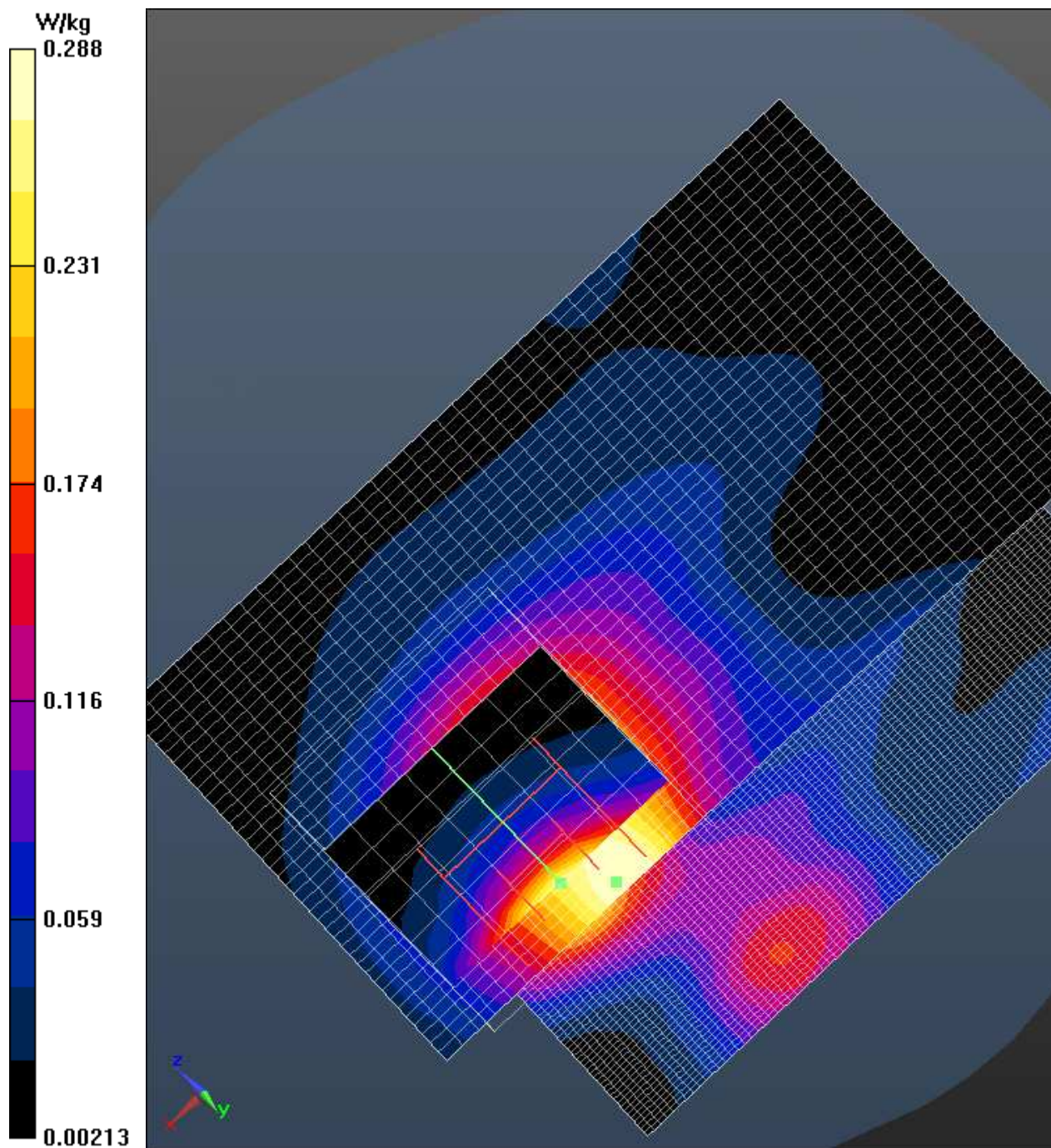
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASYS 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Back 802.11B Mid/Area Scan (81x51x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.288 W/kg

WWAN Flat-Section MSL Testing 2/Back 802.11B Mid/Area Scan 2 (41x41x1): Interpolated grid:
dx=3.000 mm, dy=3.000 mm
Maximum value of SAR (interpolated) = 0.223 W/kg

WWAN Flat-Section MSL Testing 2/Back 802.11B Mid/Zoom Scan (9x8x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 10.34 V/m; Power Drift = -0.29 dB
Peak SAR (extrapolated) = 0.335 W/kg
SAR(1 g) = 0.176 W/kg; SAR(10 g) = 0.092 W/kg

Maximum value of SAR (measured) = 0.273 W/kg



Test Laboratory: Intertek
File Name: [802.11B_No Pouch.da52:1](#)

802.11B_No Pouch (Front Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic 802.11b/g/n (0); Communication System Band: 2.4 GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.034$ S/m; $\epsilon_r = 50.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Front 802.11B Mid/Area Scan (81x51x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.272 W/kg

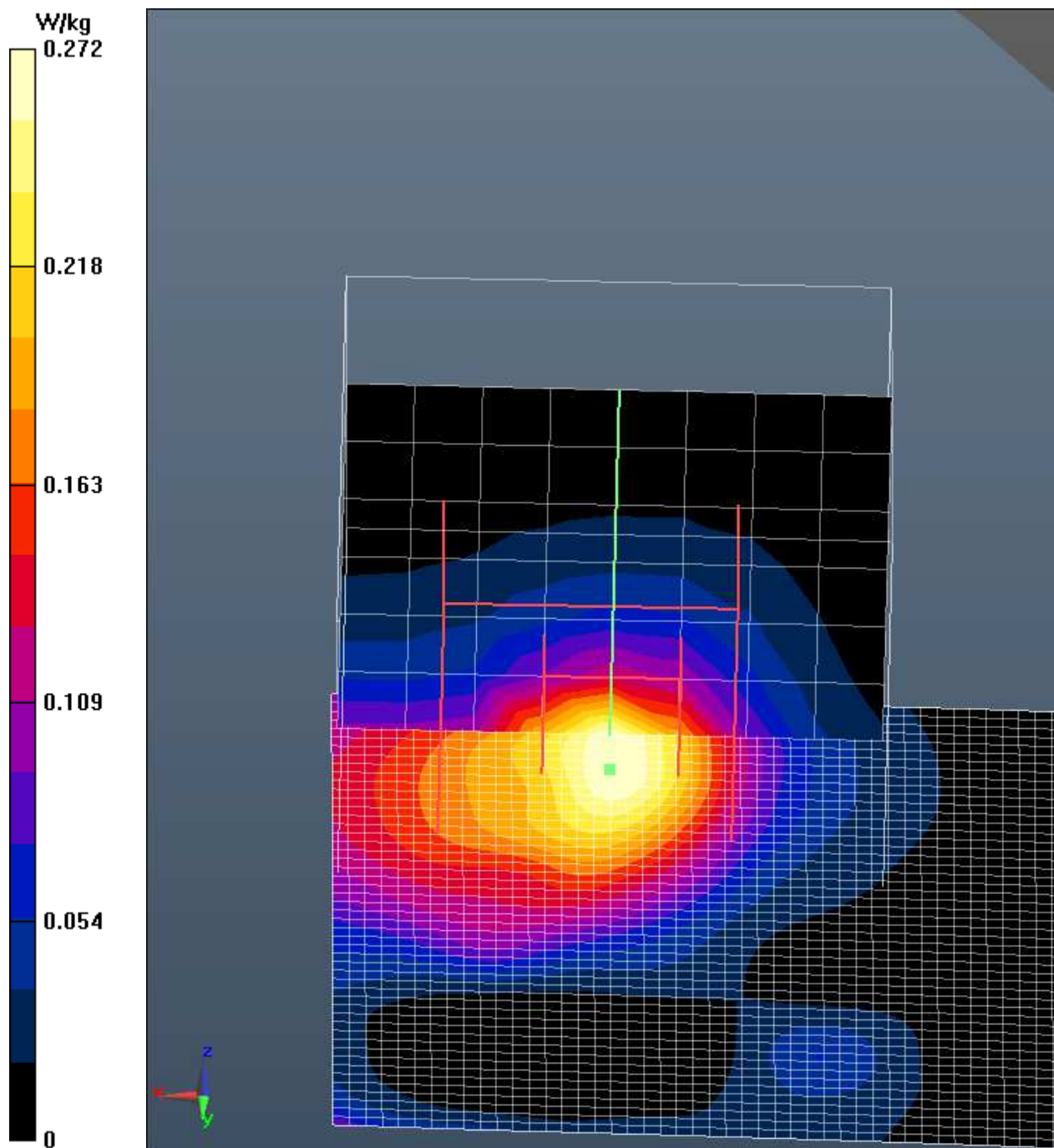
WWAN Flat-Section MSL Testing 2/Front 802.11B Mid/Zoom Scan (9x8x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.60 V/m; Power Drift = -0.25 dB

Peak SAR (extrapolated) = 0.397 W/kg

SAR(1 g) = 0.177 W/kg; SAR(10 g) = 0.083 W/kg

Maximum value of SAR (measured) = 0.314 W/kg



Test Laboratory: Intertek
File Name: [802.11B_No Pouch.da52:1](#)

802.11B_No Pouch (Left Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic 802.11b/g/n (0); Communication System Band: 2.4 GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.034$ S/m; $\epsilon_r = 50.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Left 802.11B Mid/Area Scan (81x51x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0245 W/kg

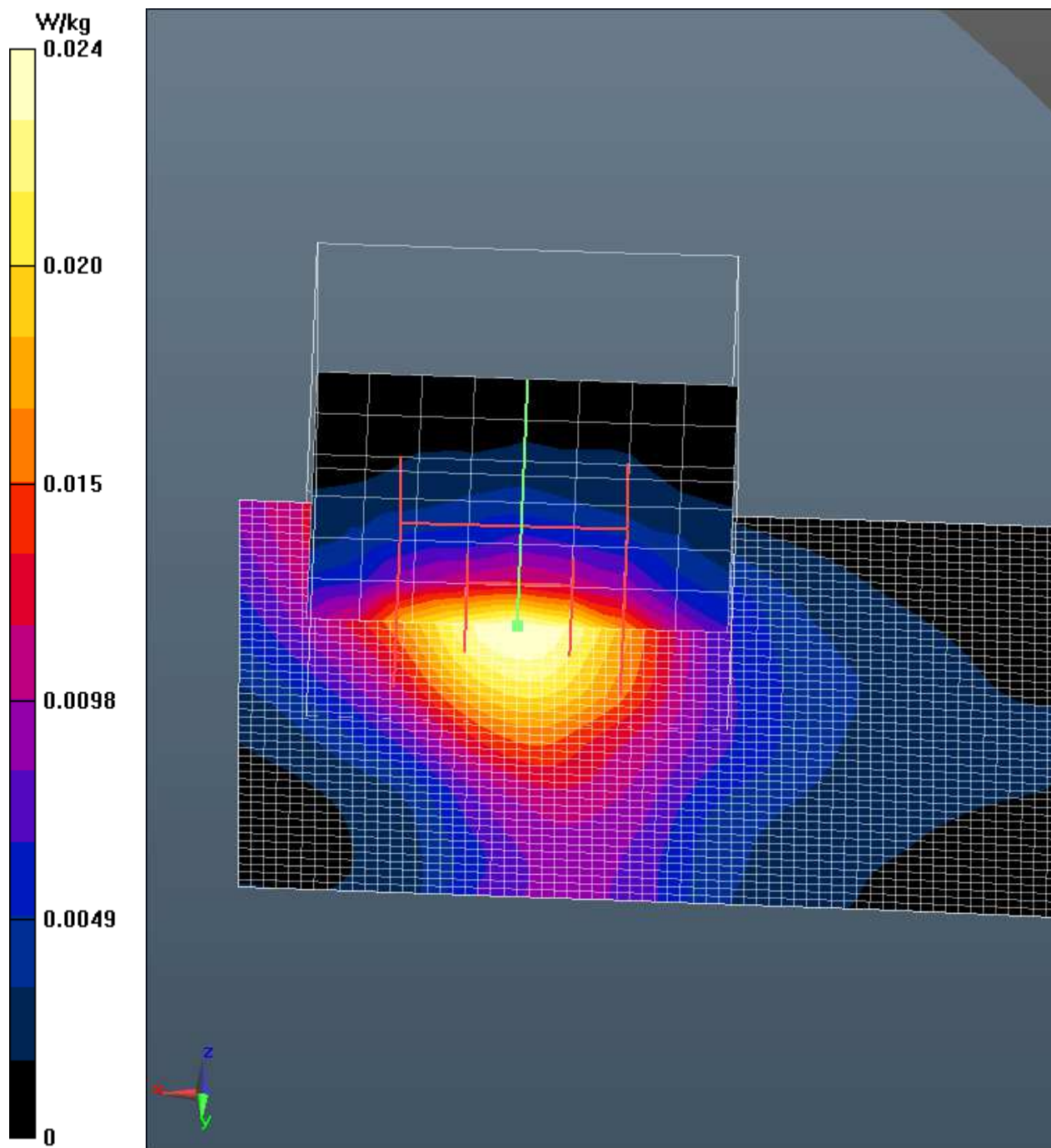
WWAN Flat-Section MSL Testing 2/Left 802.11B Mid/Zoom Scan (9x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 3.220 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.0310 W/kg

SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.00834 W/kg

Maximum value of SAR (measured) = 0.0245 W/kg



Test Laboratory: Intertek
File Name: [802.11B_No Pouch.da52:1](#)

802.11B_No Pouch (Right Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic 802.11b/g/n (0); Communication System Band: 2.4 GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.034$ S/m; $\epsilon_r = 50.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Right 802.11B Right/Area Scan (81x51x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.628 W/kg

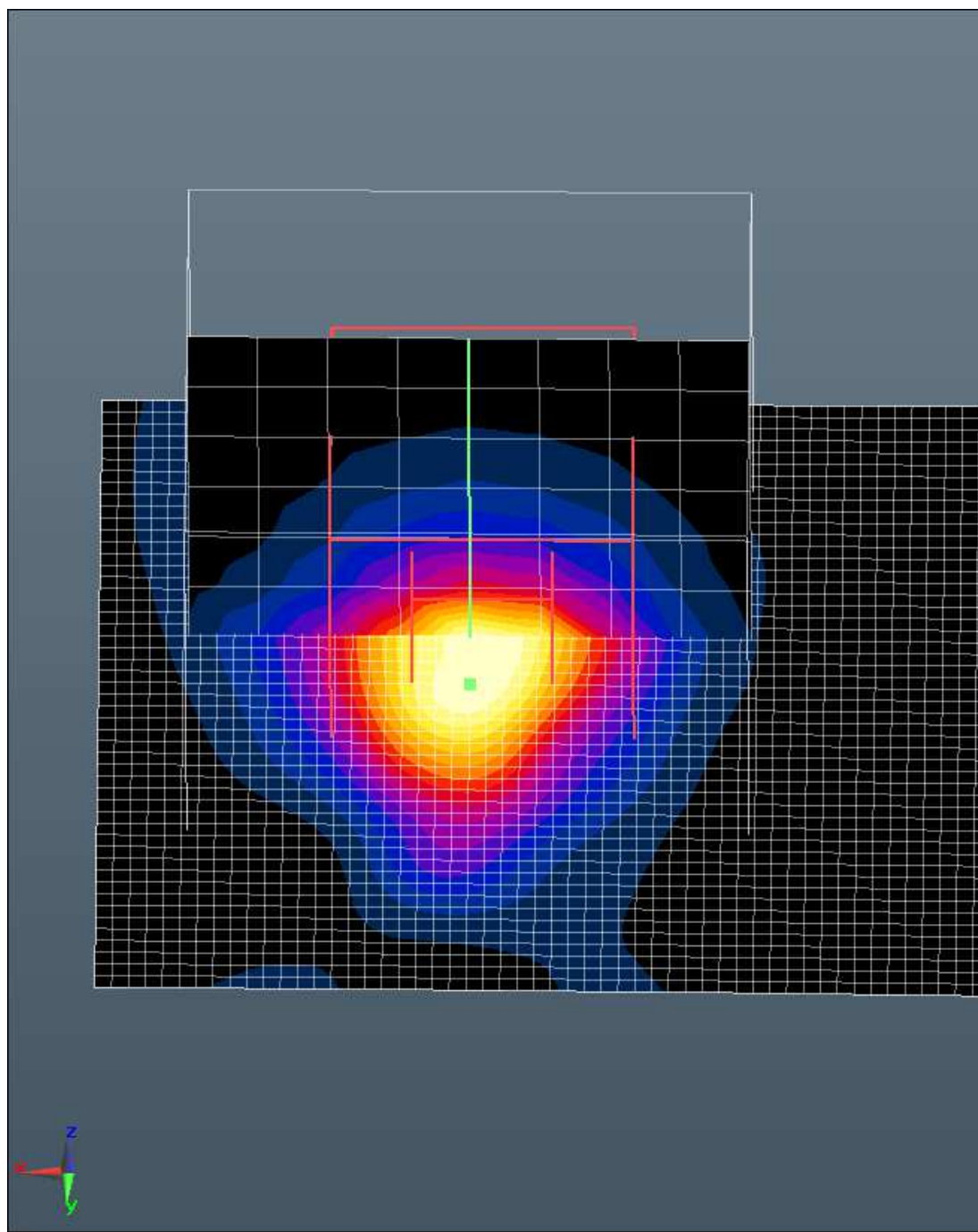
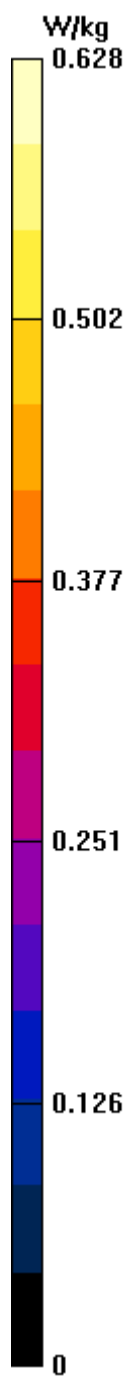
WWAN Flat-Section MSL Testing 2/Right 802.11B Right/Zoom Scan (9x8x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.07 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.838 W/kg

SAR(1 g) = 0.408 W/kg; SAR(10 g) = 0.187 W/kg

Maximum value of SAR (measured) = 0.669 W/kg



Test Laboratory: Intertek
File Name: [802.11G_No Pouch.da52:1](#)

802.11G_No Pouch (Back Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic 802.11b/g/n (0); Communication System Band: 2.4 GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437 \text{ MHz}$; $\sigma = 2.034 \text{ S/m}$; $\epsilon_r = 50.658$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Back 802.11G Mid/Area Scan (81x51x1): Interpolated grid:
 $dx=1.200 \text{ mm}$, $dy=1.200 \text{ mm}$

Maximum value of SAR (interpolated) = 0.235 W/kg

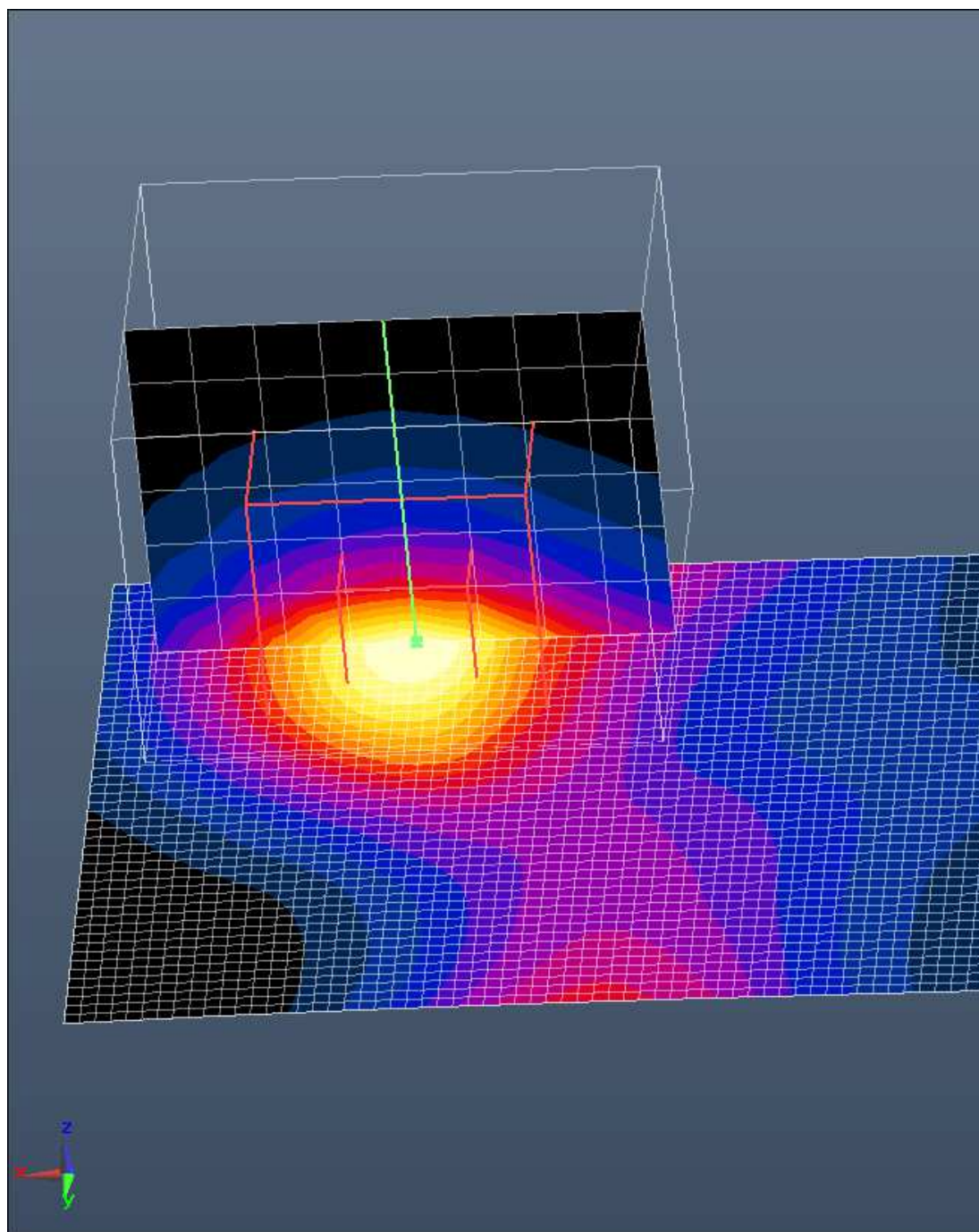
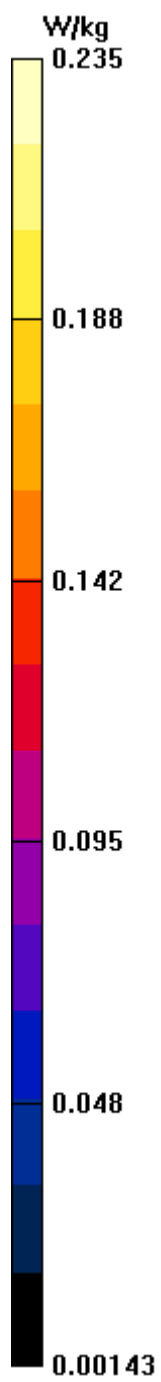
WWAN Flat-Section MSL Testing 2/Back 802.11G Mid/Zoom Scan (9x8x7)/Cube 0: Measurement
grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 10.94 V/m ; Power Drift = -0.27 dB

Peak SAR (extrapolated) = 0.279 W/kg

SAR(1 g) = 0.148 W/kg ; SAR(10 g) = 0.078 W/kg

Maximum value of SAR (measured) = 0.229 W/kg



Test Laboratory: Intertek
File Name: [802.11G_No Pouch.da52:1](#)

802.11G_No Pouch (Front Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic 802.11b/g/n (0); Communication System Band: 2.4 GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.034$ S/m; $\epsilon_r = 50.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Front 802.11G Mid/Area Scan (81x51x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.355 W/kg

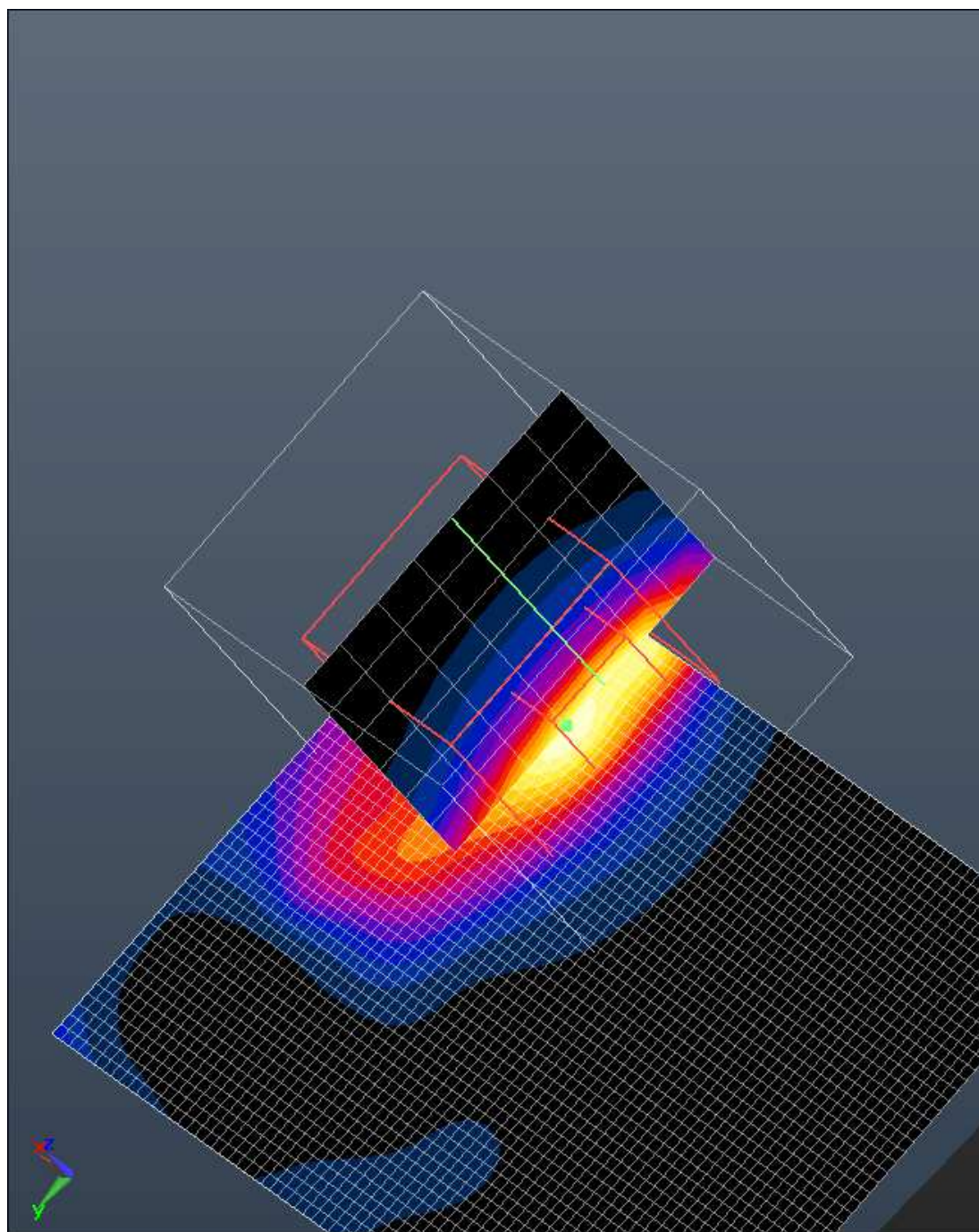
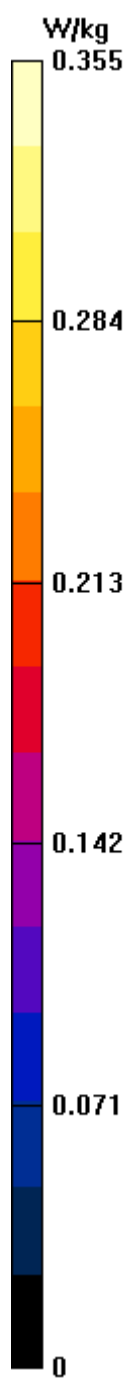
WWAN Flat-Section MSL Testing 2/Front 802.11G Mid/Zoom Scan (9x8x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 13.86 V/m; Power Drift = -0.14 dB

Peak SAR (extrapolated) = 0.503 W/kg

SAR(1 g) = 0.214 W/kg; SAR(10 g) = 0.098 W/kg

Maximum value of SAR (measured) = 0.394 W/kg



Test Laboratory: Intertek
File Name: [802.11G_No Pouch.da52:1](#)

802.11G_No Pouch (Left Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic 802.11b/g/n (0); Communication System Band: 2.4 GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.034$ S/m; $\epsilon_r = 50.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Left 802.11G Mid/Area Scan (81x51x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.0190 W/kg

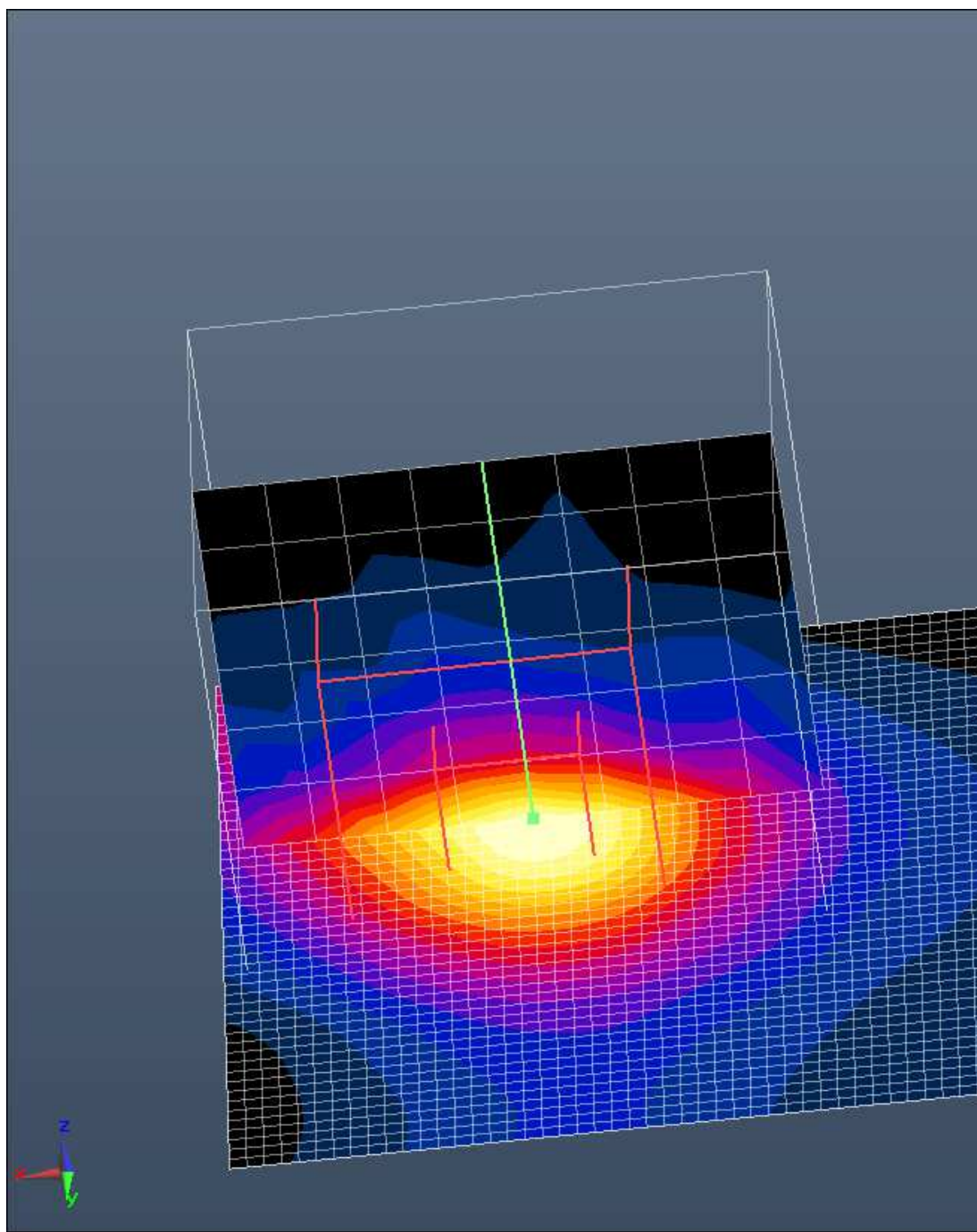
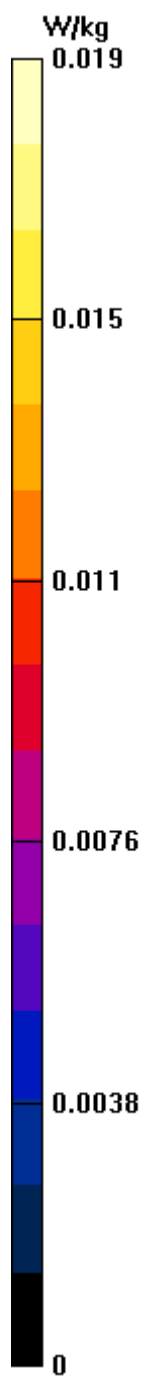
WWAN Flat-Section MSL Testing 2/Left 802.11G Mid/Zoom Scan (9x8x7)/Cube 0: Measurement grid:
dx=5mm, dy=5mm, dz=5mm

Reference Value = 2.718 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0230 W/kg

SAR(1 g) = 0.011 W/kg; SAR(10 g) = 0.00594 W/kg

Maximum value of SAR (measured) = 0.0182 W/kg



Test Laboratory: Intertek
File Name: [802.11G_No Pouch.da52:1](#)

802.11G_No Pouch (Right Side, Middle Channel)

Procedure Notes:

DUT: CrossMatch; Serial:

Communication System: UID 0, Generic 802.11b/g/n (0); Communication System Band: 2.4 GHz Band;
Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): $f = 2437$ MHz; $\sigma = 2.034$ S/m; $\epsilon_r = 50.658$; $\rho = 1000$ kg/m³

Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Right 802.11G Right/Area Scan (81x51x1): Interpolated grid:
dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.631 W/kg

WWAN Flat-Section MSL Testing 2/Right 802.11G Right/Zoom Scan (9x8x7)/Cube 0: Measurement
grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 17.35 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.832 W/kg

SAR(1 g) = 0.404 W/kg; SAR(10 g) = 0.188 W/kg

Maximum value of SAR (measured) = 0.644 W/kg

