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 MHz; σ = 0.986 S/m; ε_r = 53.519; ρ = 1000 kg/m^3

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

DASY5 Configuration:

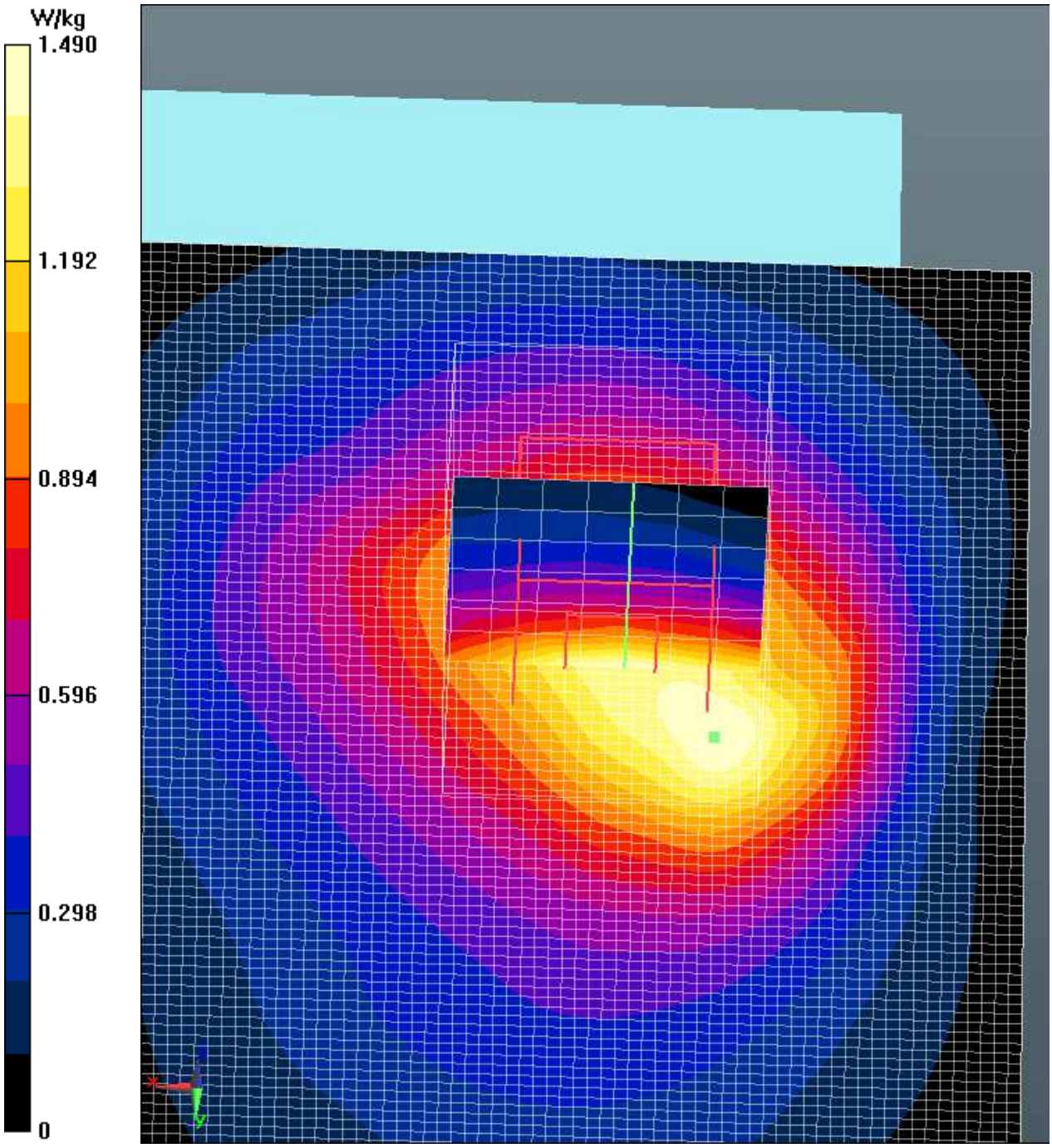
- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Back Side Mid Channel/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
1.490
1.192
0.894
0.596
0.298
0

Date/Time: 5/17/2016 10:25:29 PM

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 MHz; σ = 0.975 S/m; ε_r = 53.62; ρ = 1000 kg/m^3

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

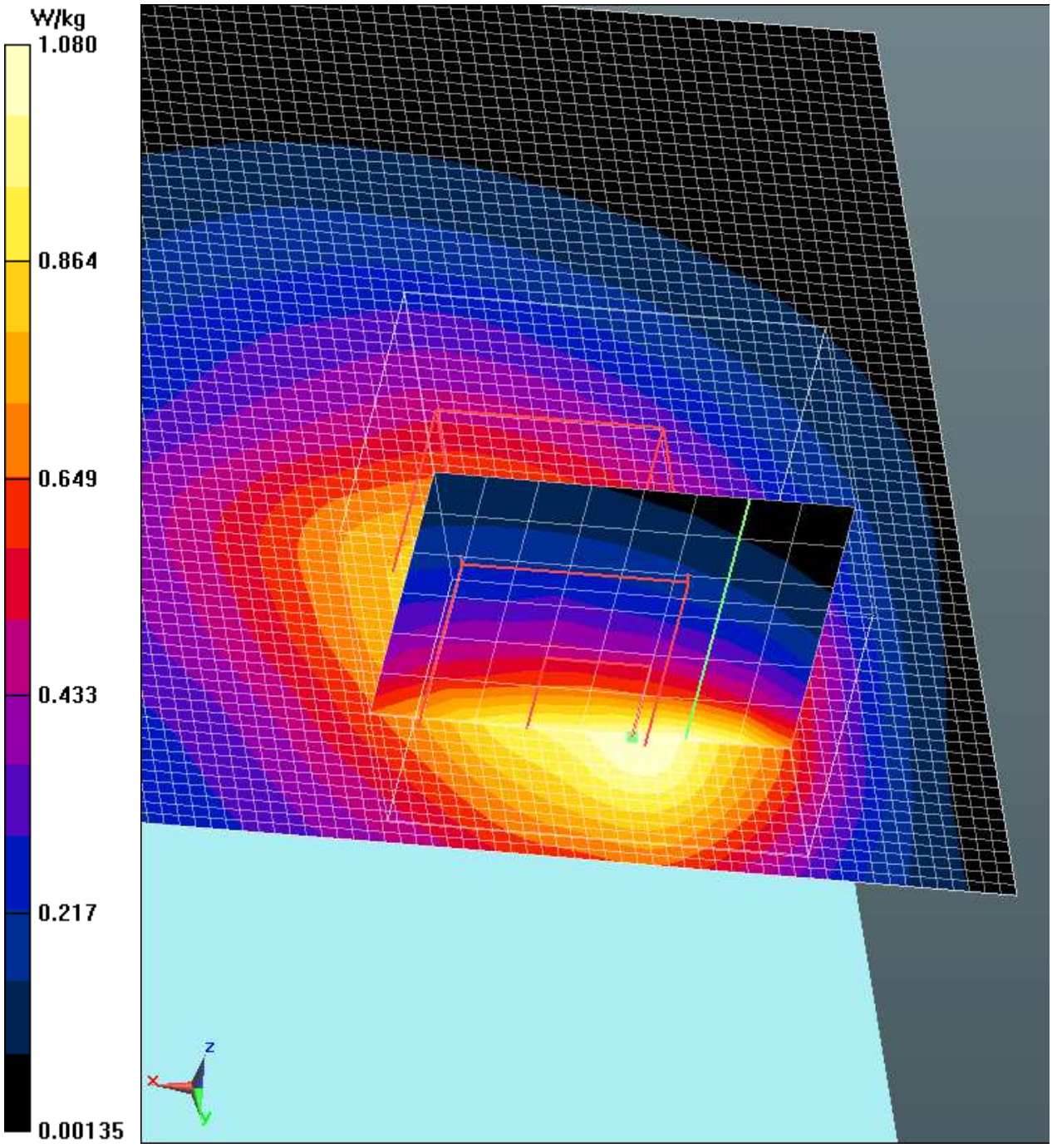
DASY5 Configuration:

- 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 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
1.080
0.864
0.649
0.433
0.217
0.00135
Z
X
Y

Date/Time: 5/17/2016 10:58:02 PM

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; σ = 0.998 S/m; ε_r = 53.445; ρ = 1000 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 (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)

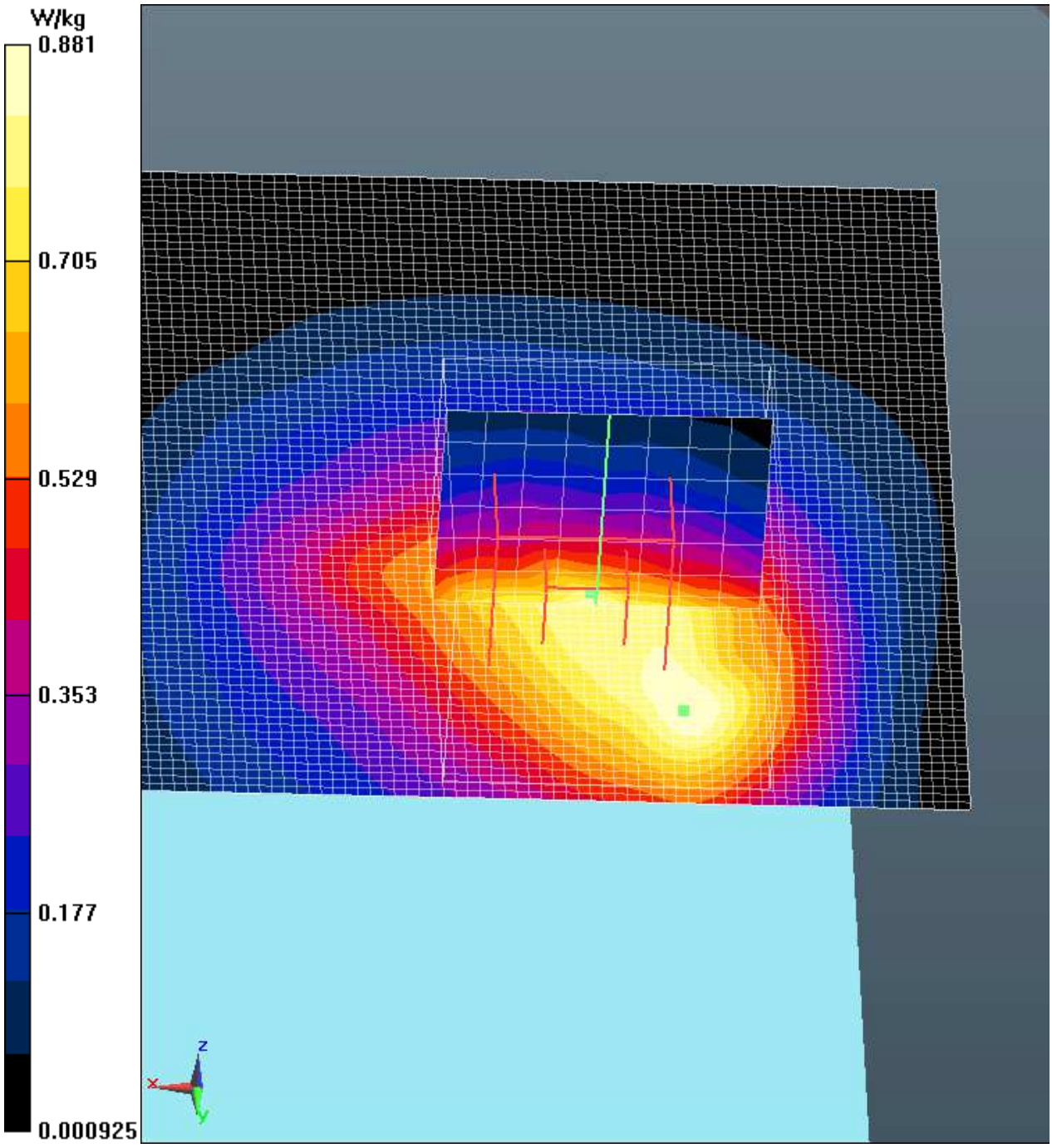
WWAN Flat-Section MSL Testing/Back Side High Channel/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

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


W/kg
0.881
0.705
0.529
0.353
0.177
0.000925
Z
X
Y

Date/Time: 5/17/2016 11:32:49 PM

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 MHz; σ = 0.986 S/m; ε_r = 53.519; ρ = 1000 kg/m^3

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

DASY5 Configuration:

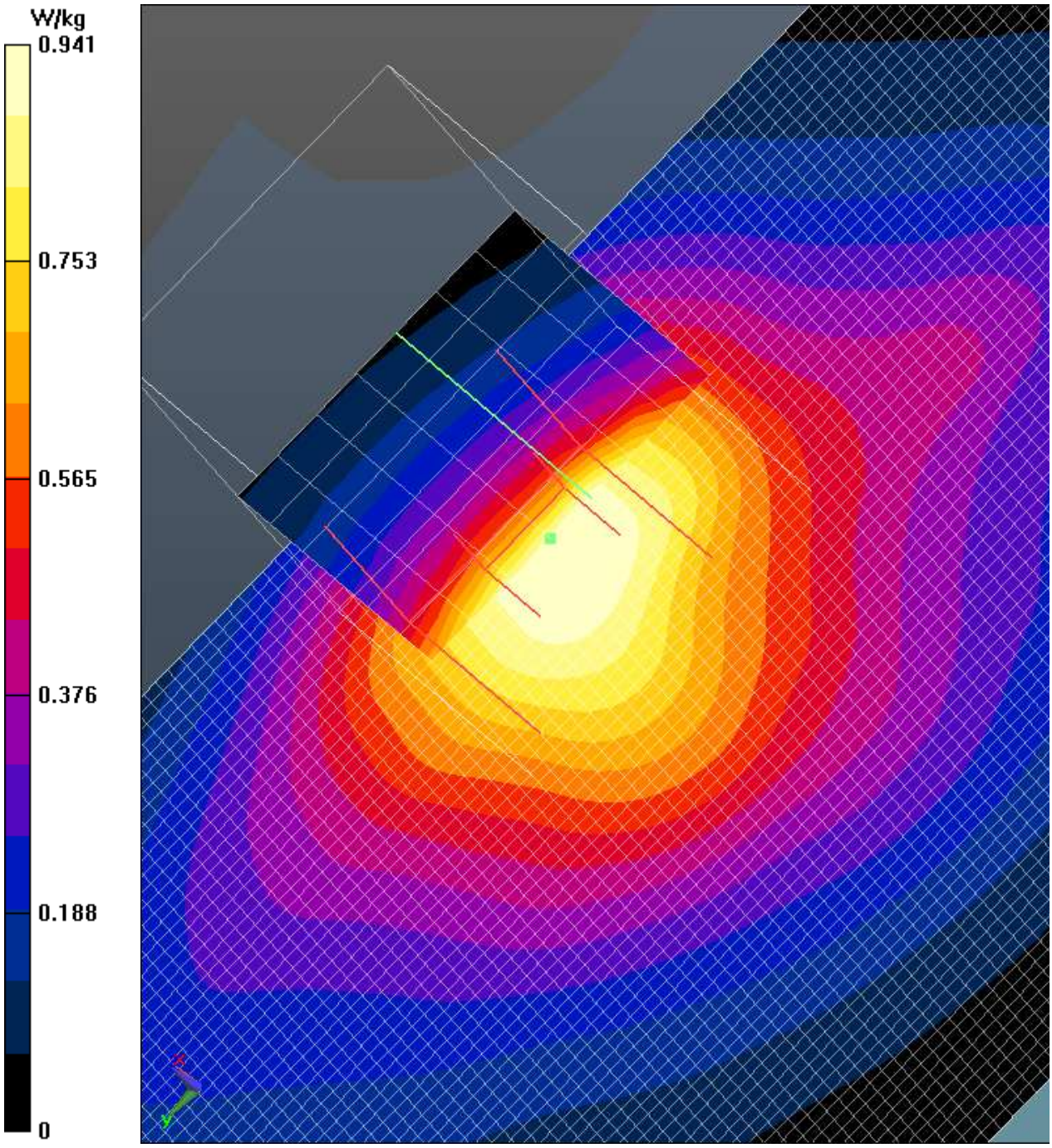
- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Front Side Mid Channel/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
0.941
0.753
0.565
0.376
0.188
0

Date/Time: 5/17/2016 11:49:44 AM

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 MHz; σ = 0.986 S/m; ε_r = 53.519; ρ = 1000 kg/m^3

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

DASY5 Configuration:

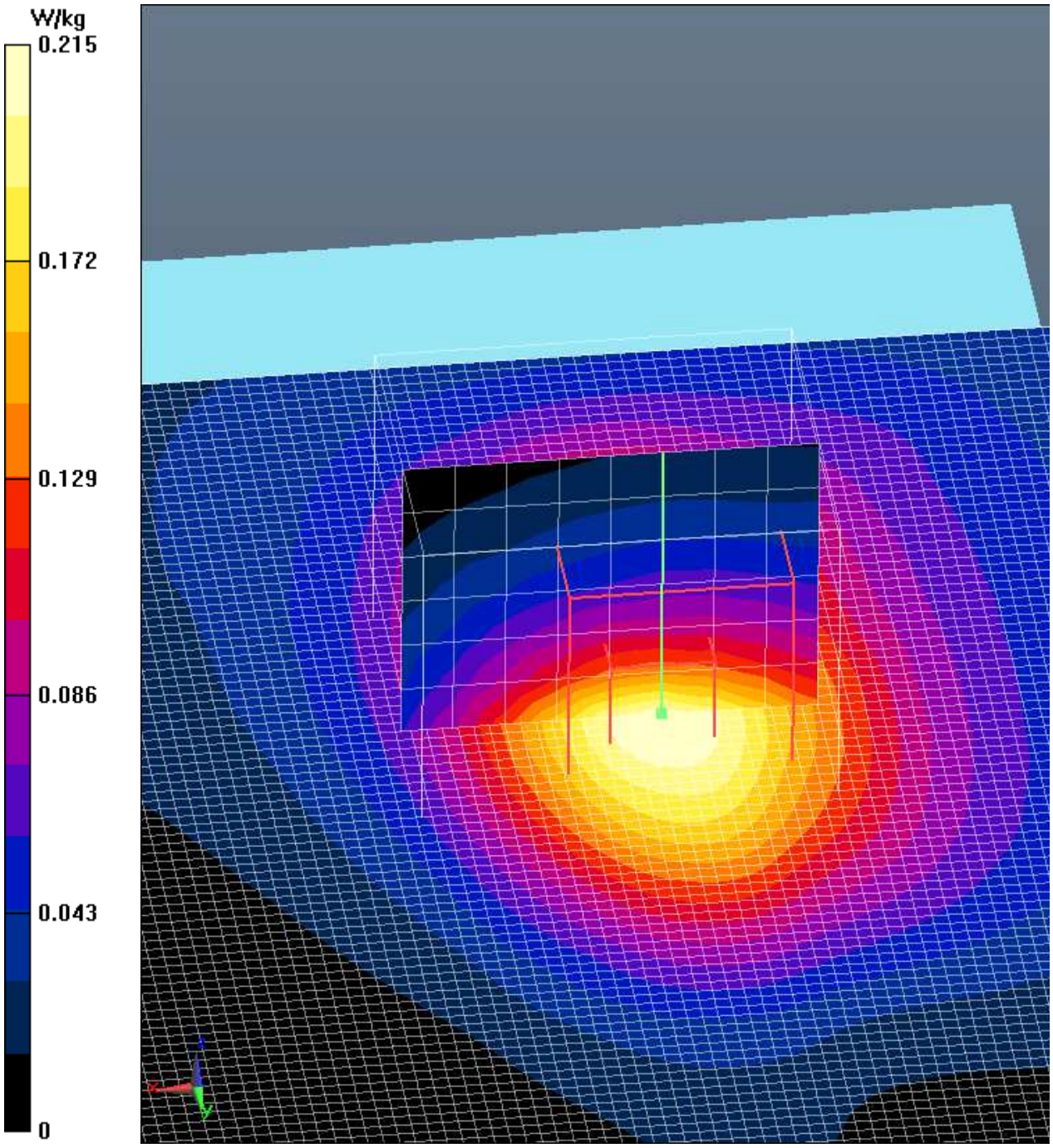
- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Left Side Mid Channel/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
0.215
0.172
0.129
0.086
0.043
0

Date/Time: 5/17/2016 12:21:24 PM

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 MHz; σ = 0.986 S/m; ε_r = 53.519; ρ = 1000 kg/m^3

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

DASY5 Configuration:

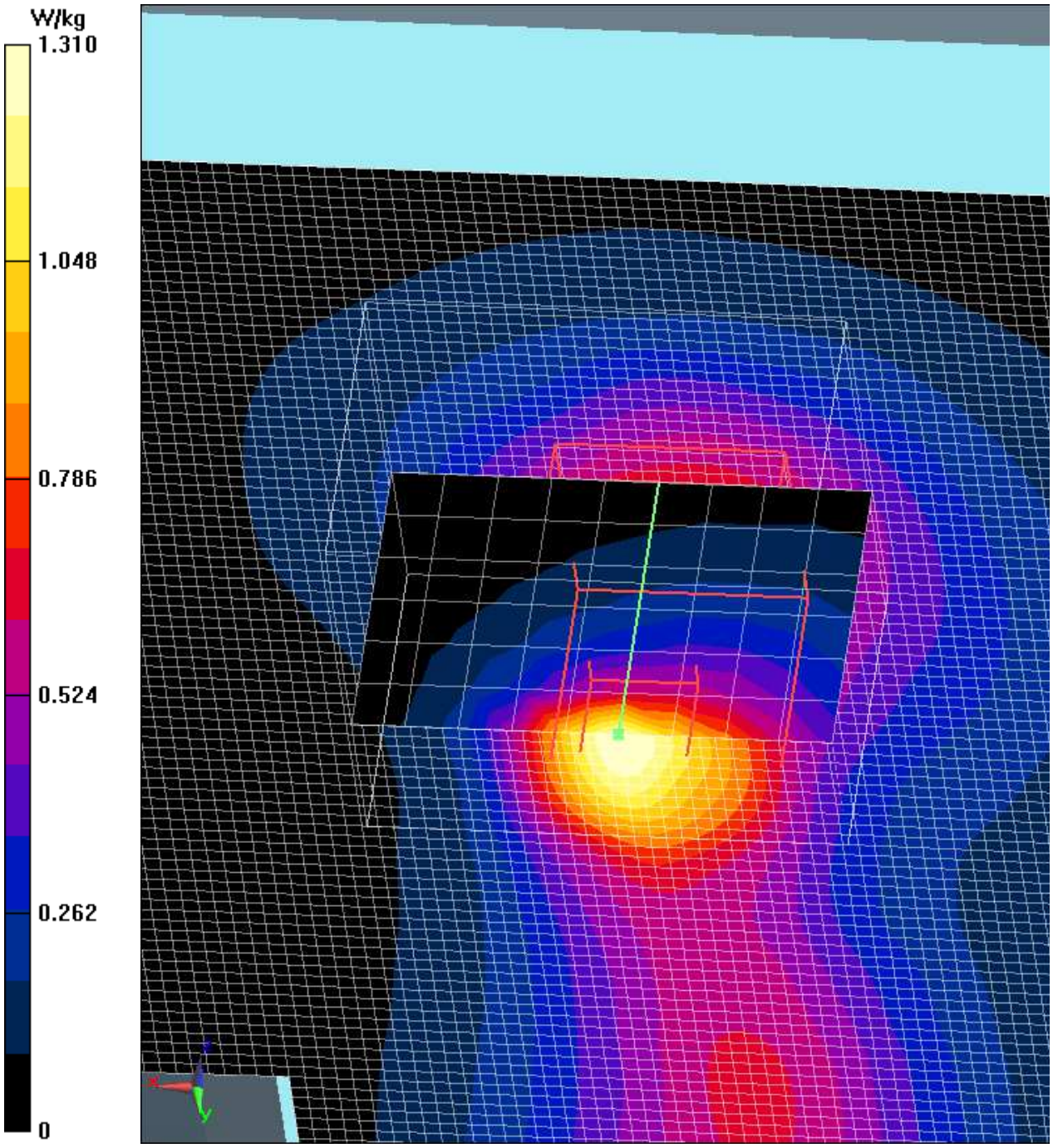
- Probe: EX3DV3 - SN3516; ConvF(10.51, 10.51, 10.51); Calibrated: 12/12/2014;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2014
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Right Side Mid Channel/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
1.310
1.048
0.786
0.524
0.262
0

Date/Time: 5/18/2016 4:40:32 PM

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 MHz; σ = 1.51 S/m; ε_r = 53.28; ρ = 1000 kg/m^3

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

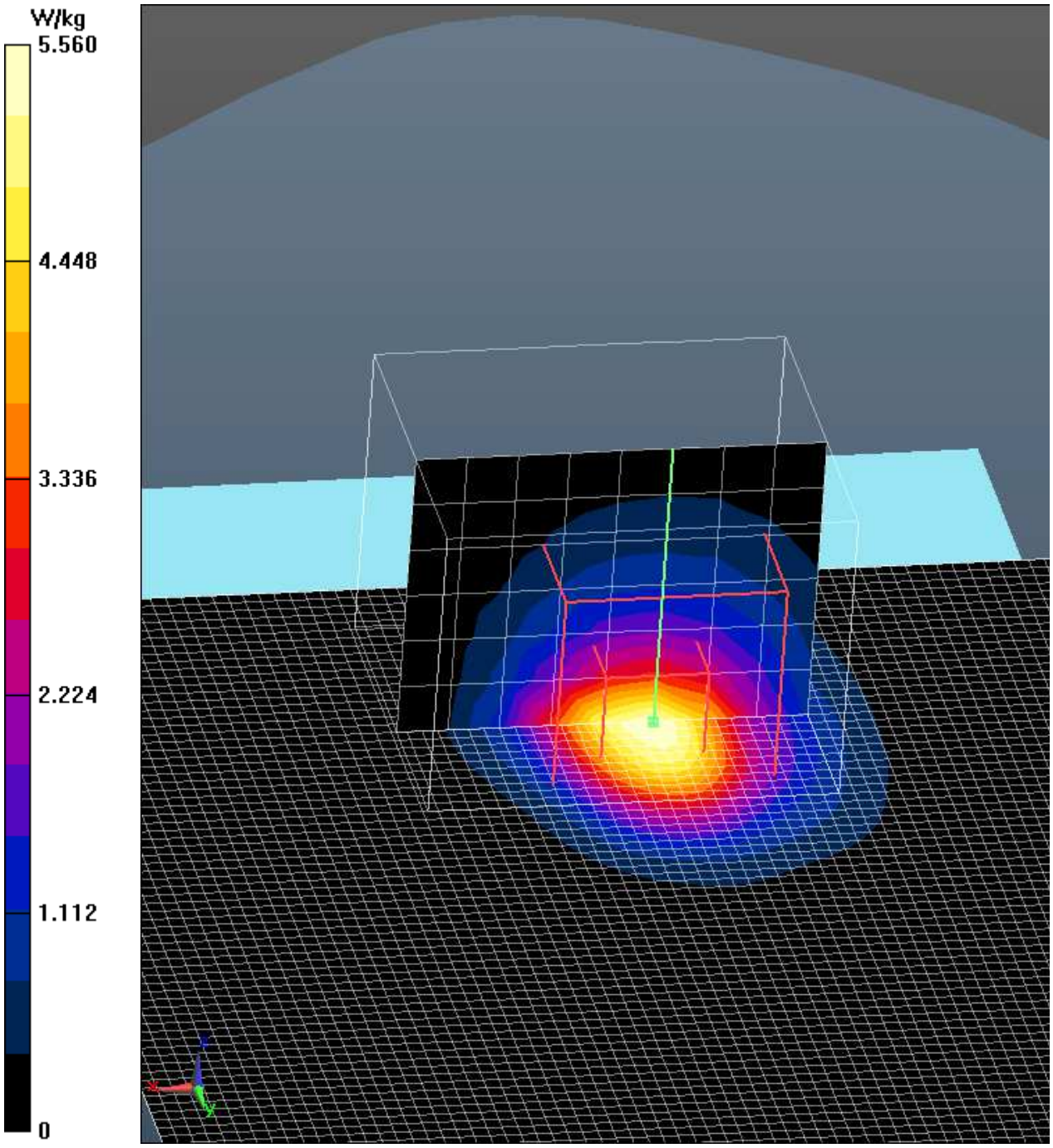
DASY5 Configuration:

- 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 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
5.560
4.448
3.336
2.224
1.112
0

Date/Time: 5/18/2016 5:14:56 PM

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 MHz; σ = 1.51 S/m; ε_r = 53.28; ρ = 1000 kg/m^3

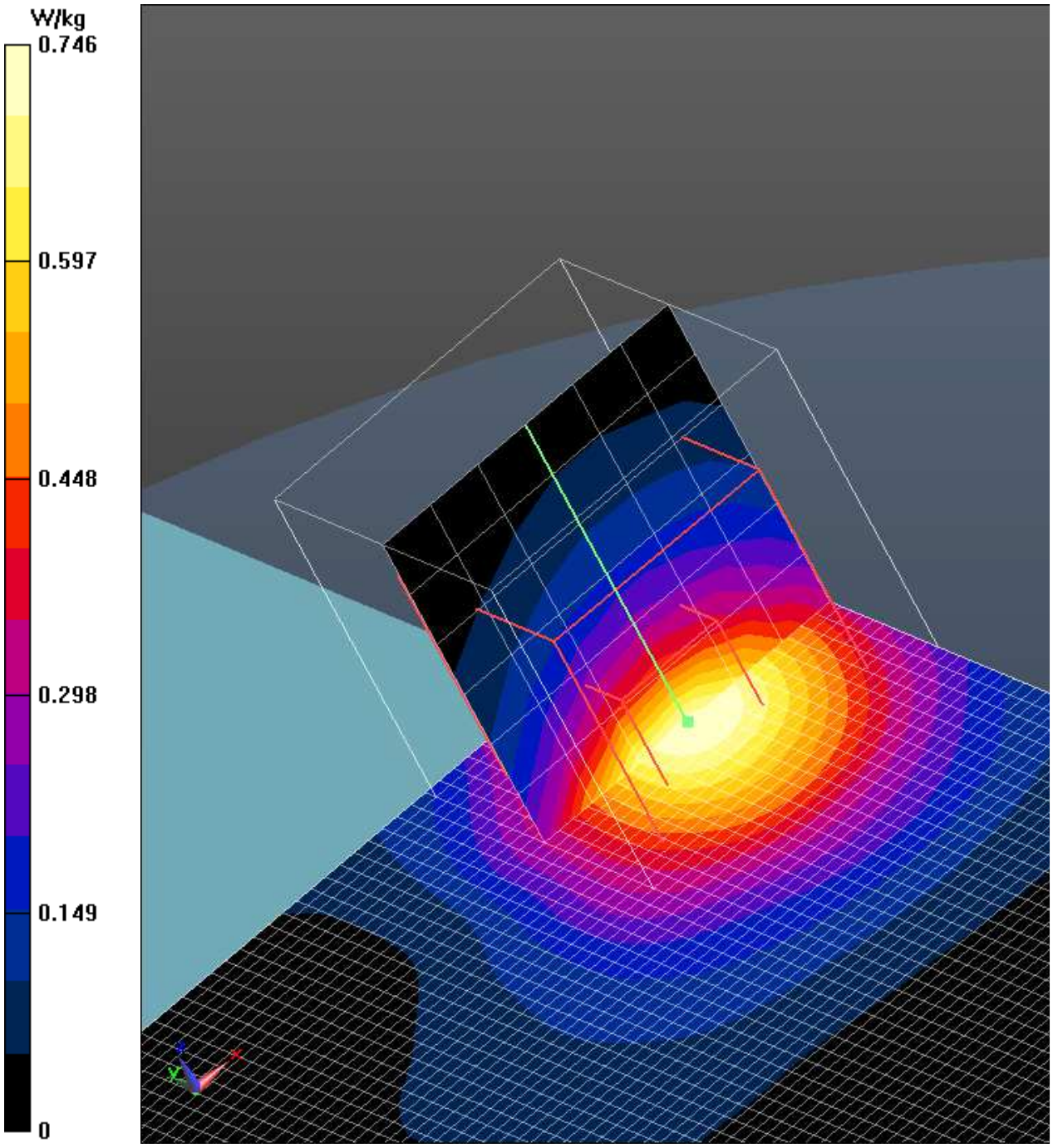
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
0.746
0.597
0.448
0.298
0.149
0

Date/Time: 5/18/2016 6:49:31 PM

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 MHz; σ = 1.51 S/m; ε_r = 53.28; ρ = 1000 kg/m^3

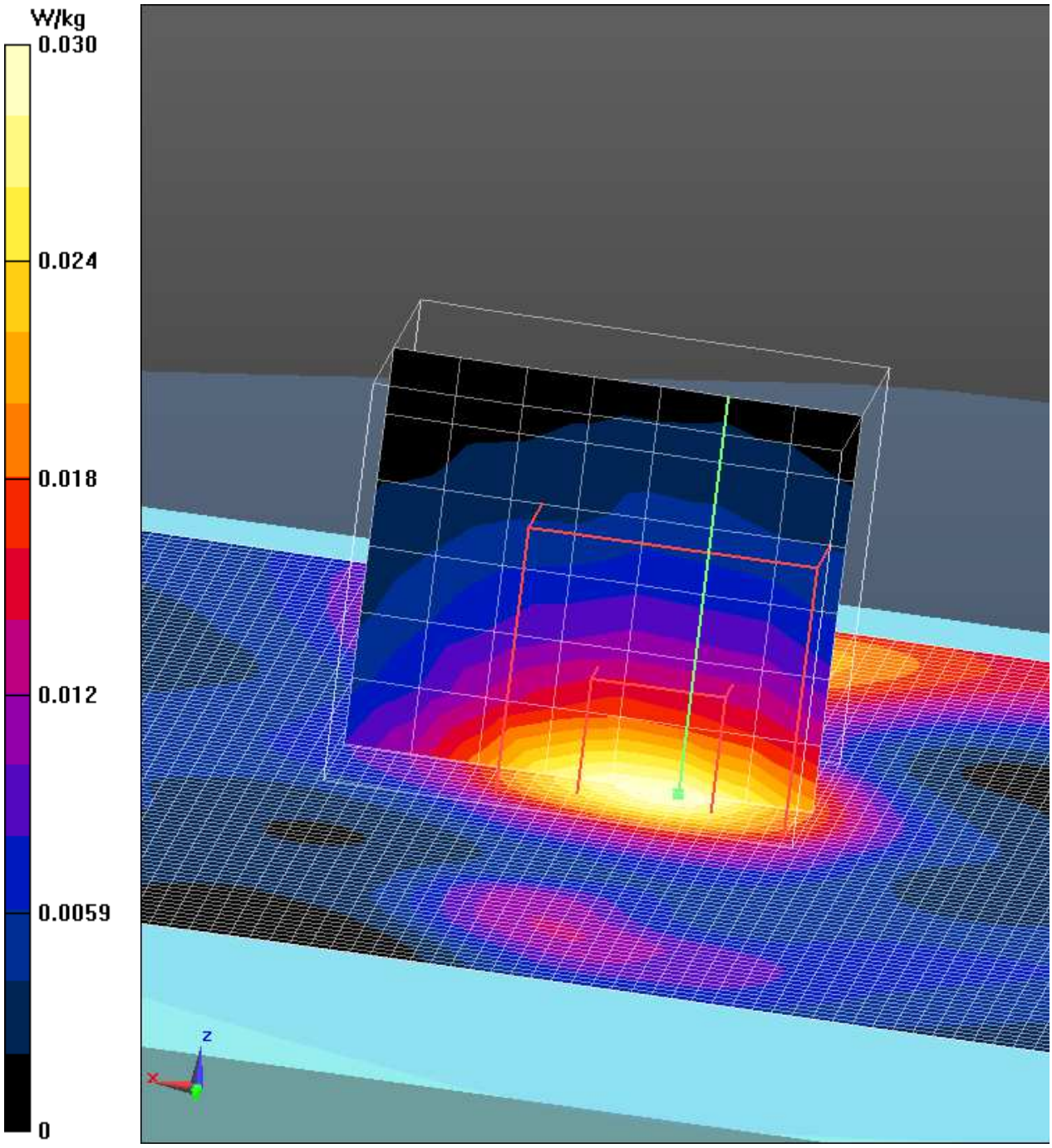
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
0.030
0.024
0.018
0.012
0.0059
0
z
x

Date/Time: 5/18/2016 11:47:43 AM

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 MHz; σ = 1.51 S/m; ε_r = 53.28; ρ = 1000 kg/m^3

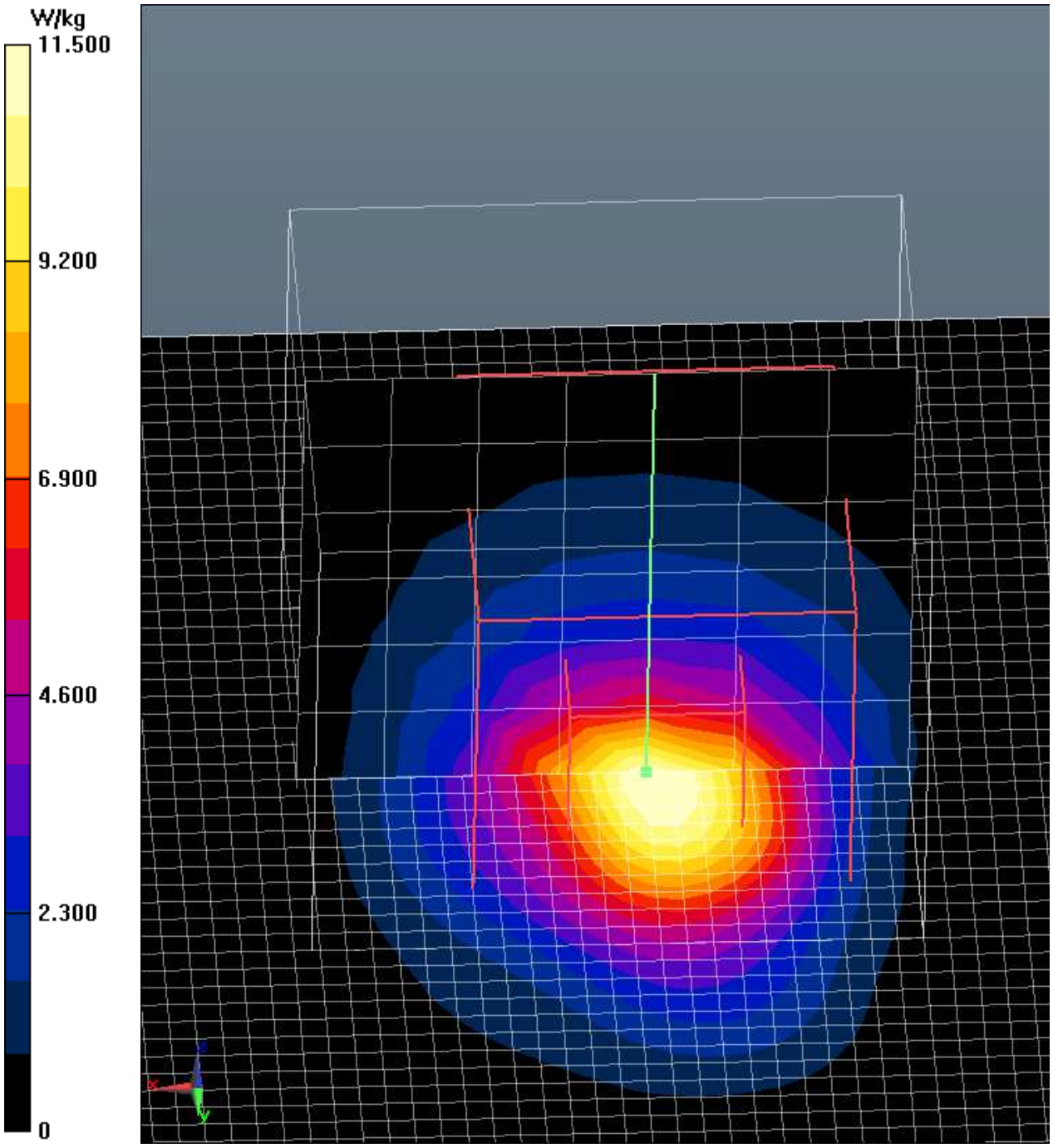
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

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 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
11.500
9.200
6.900
4.600
2.300
0

Date/Time: 5/18/2016 11:47:43 AM

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 MHz; σ = 1.51 S/m; ε_r = 53.28; ρ = 1000 kg/m^3 , Medium parameters used: f = 1852.4 MHz; σ = 1.49 S/m; ε_r = 53.23; ρ = 1000 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)

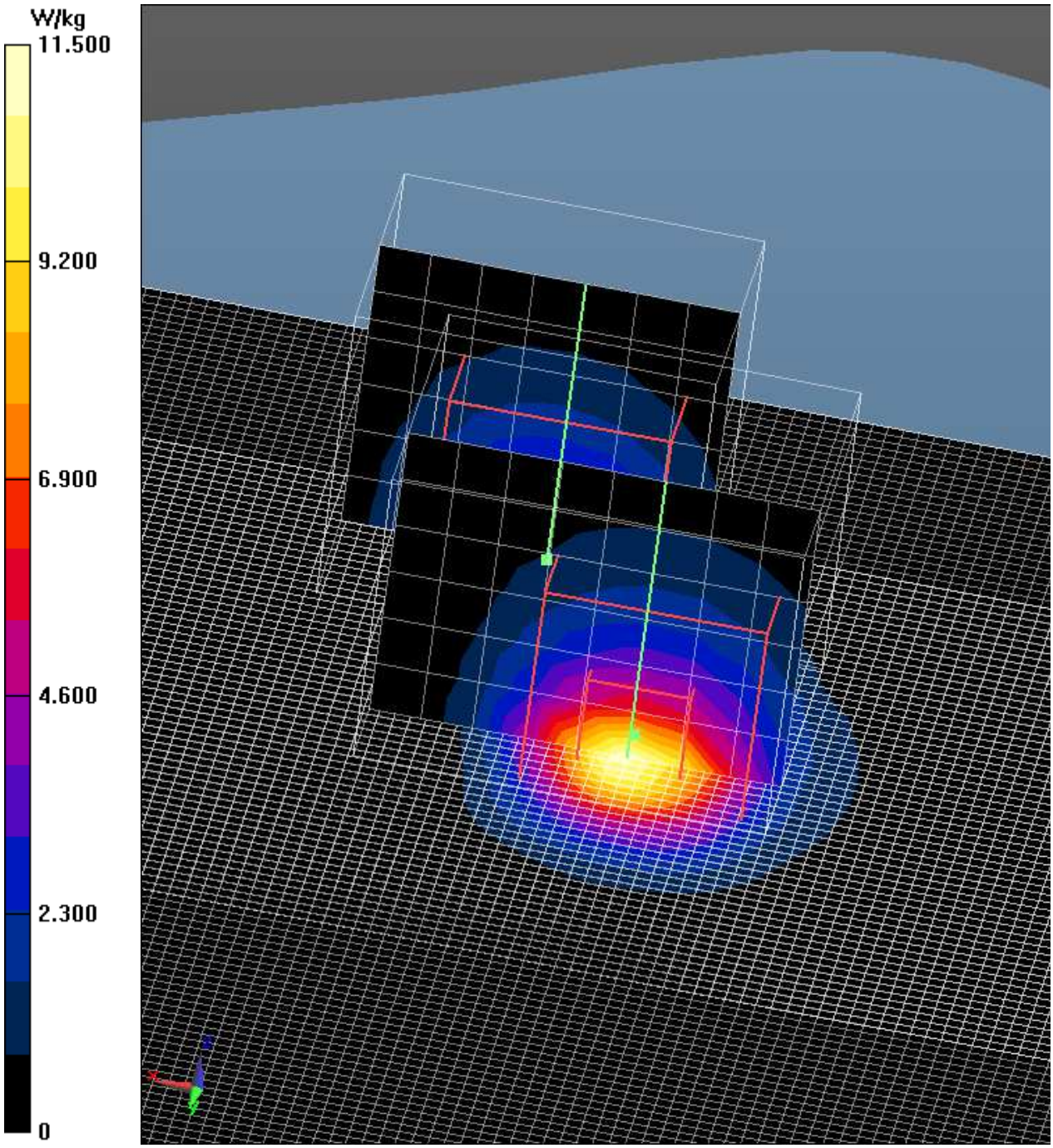
WWAN Flat-Section MSL Testing/Left Side Mid 2/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 11.5 W/kg

WWAN Flat-Section MSL Testing/Back Side Low/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
11.500
9.200
6.900
4.600
2.300
0

Date/Time: 5/18/2016 9:20:19 PM

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; σ = 1.49 S/m; ε_r = 53.23; ρ = 1000 kg/m^3

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

DASY5 Configuration:

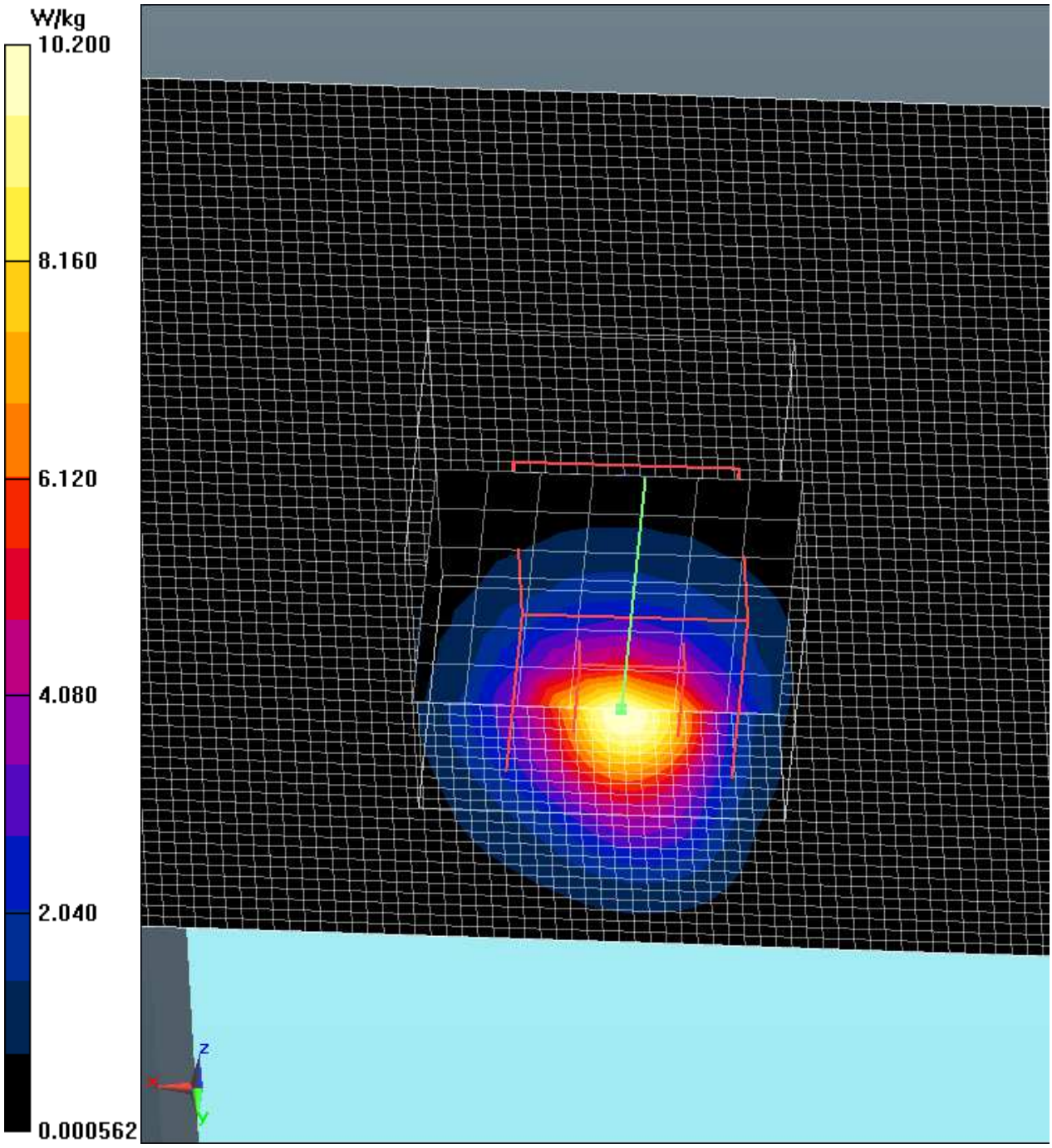
- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0;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

WWAN Flat-Section MSL Testing/Left Side 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


W/kg
10.200
8.160
6.120
4.080
2.040
0.000562
Z
X
Y

Date/Time: 5/18/2016 11:16:25 PM

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 MHz; σ = 1.543 S/m; ε_r = 53.28; ρ = 1000 kg/m^3

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

DASY5 Configuration:

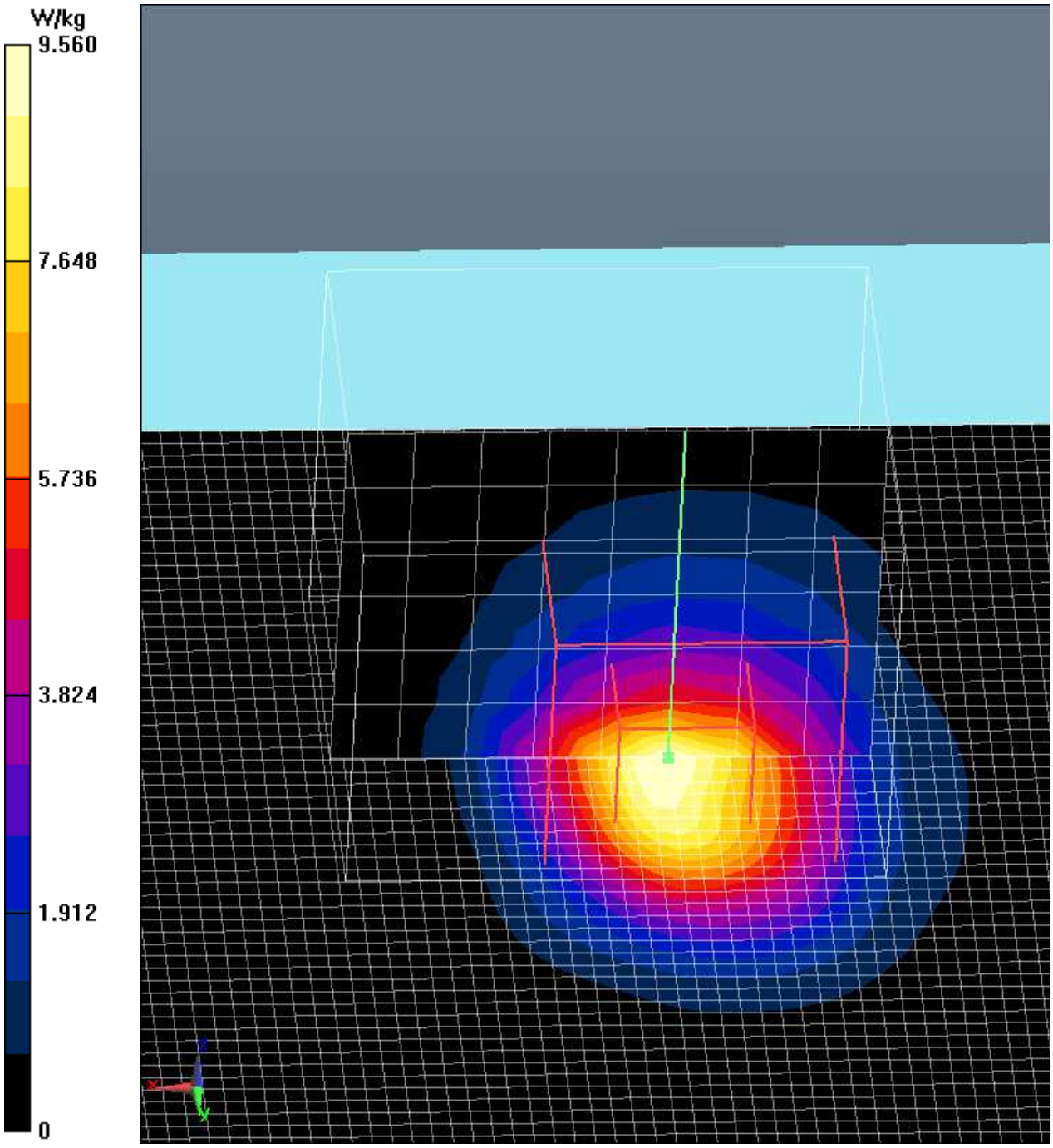
- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Back Side High/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
9.560
7.648
5.736
3.824
1.912
0

Date/Time: 6/6/2016 10:02:43 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)

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 MHz; σ = 1.543 S/m; ε_r = 53.28; ρ = 1000 kg/m^3

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

DASY5 Configuration:

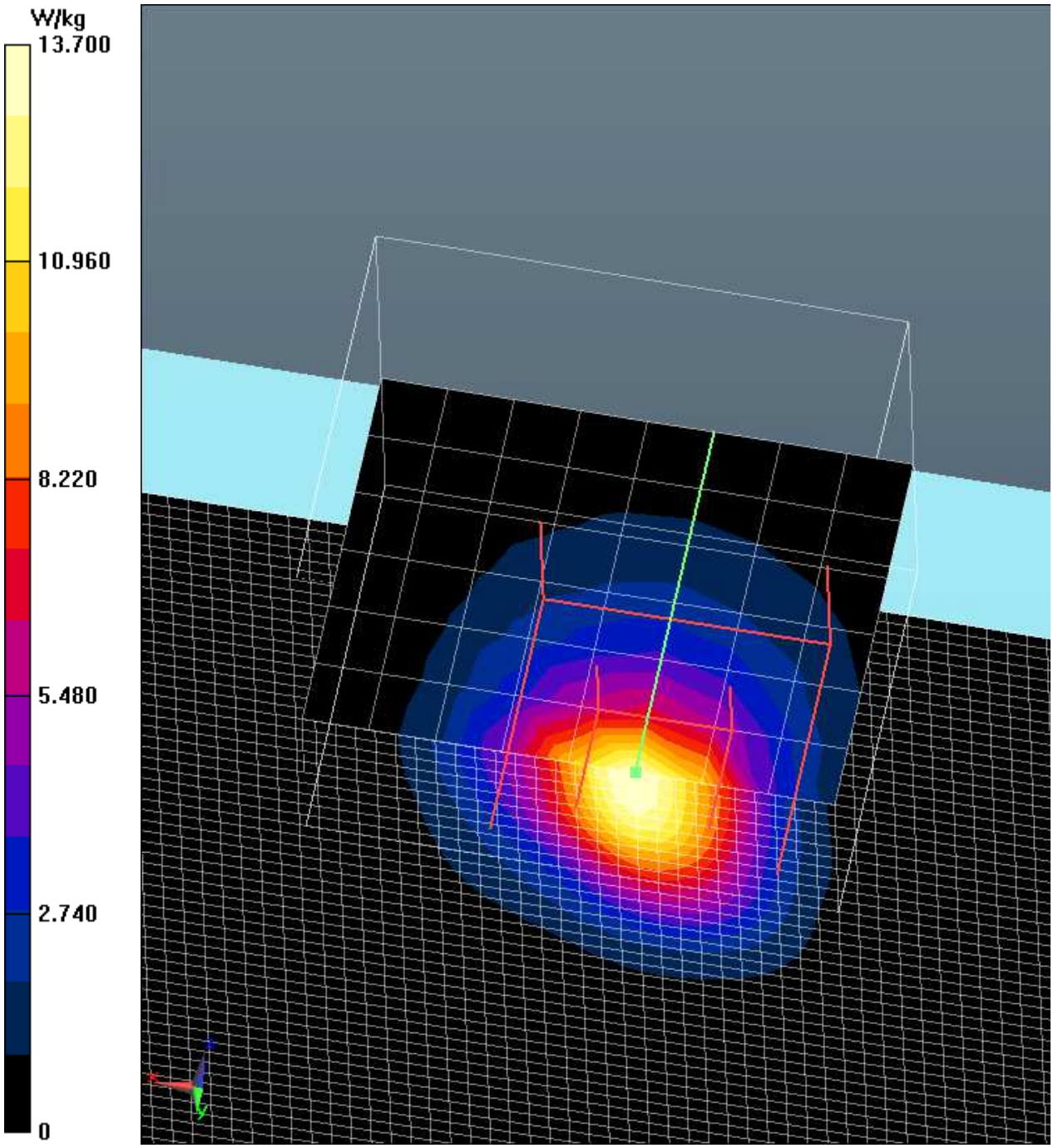
- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing/Left Side High Channel_New SW Version/Area Scan (81x101x1):
Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
13.700
10.960
8.220
5.480
2.740
0

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 MHz; σ = 1.543 S/m; ε_r = 53.28; ρ = 1000 kg/m^3

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

DASY5 Configuration:

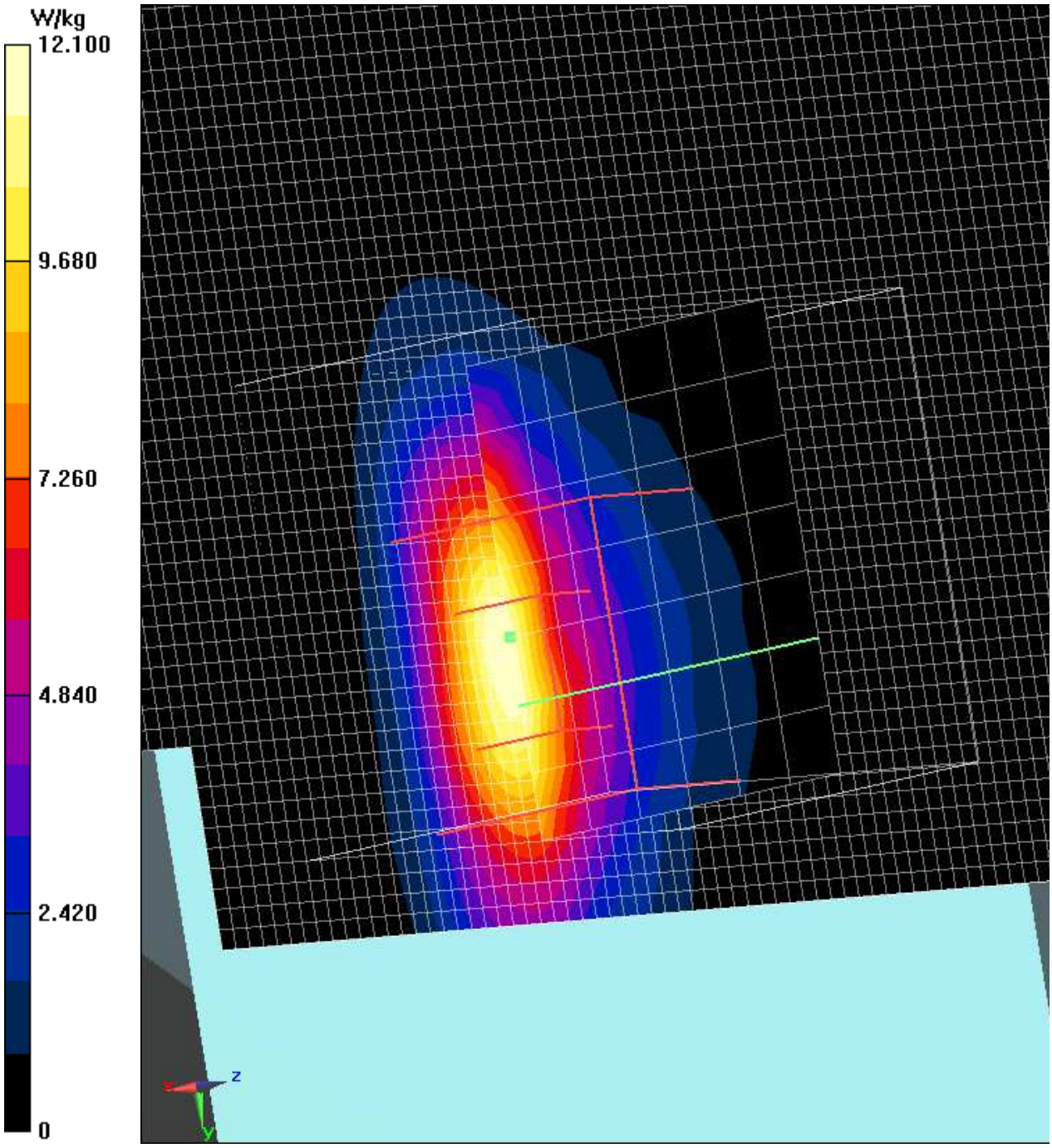
- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

WWAN Flat-Section MSL Testing/Repeatability_Left Side High Channel_New SW Version 2/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
12.100
9.680
7.260
4.840
2.420
0
z
y

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 MHz; σ = 1.543 S/m; ε_r = 53.28; ρ = 1000 kg/m^3

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

DASY5 Configuration:

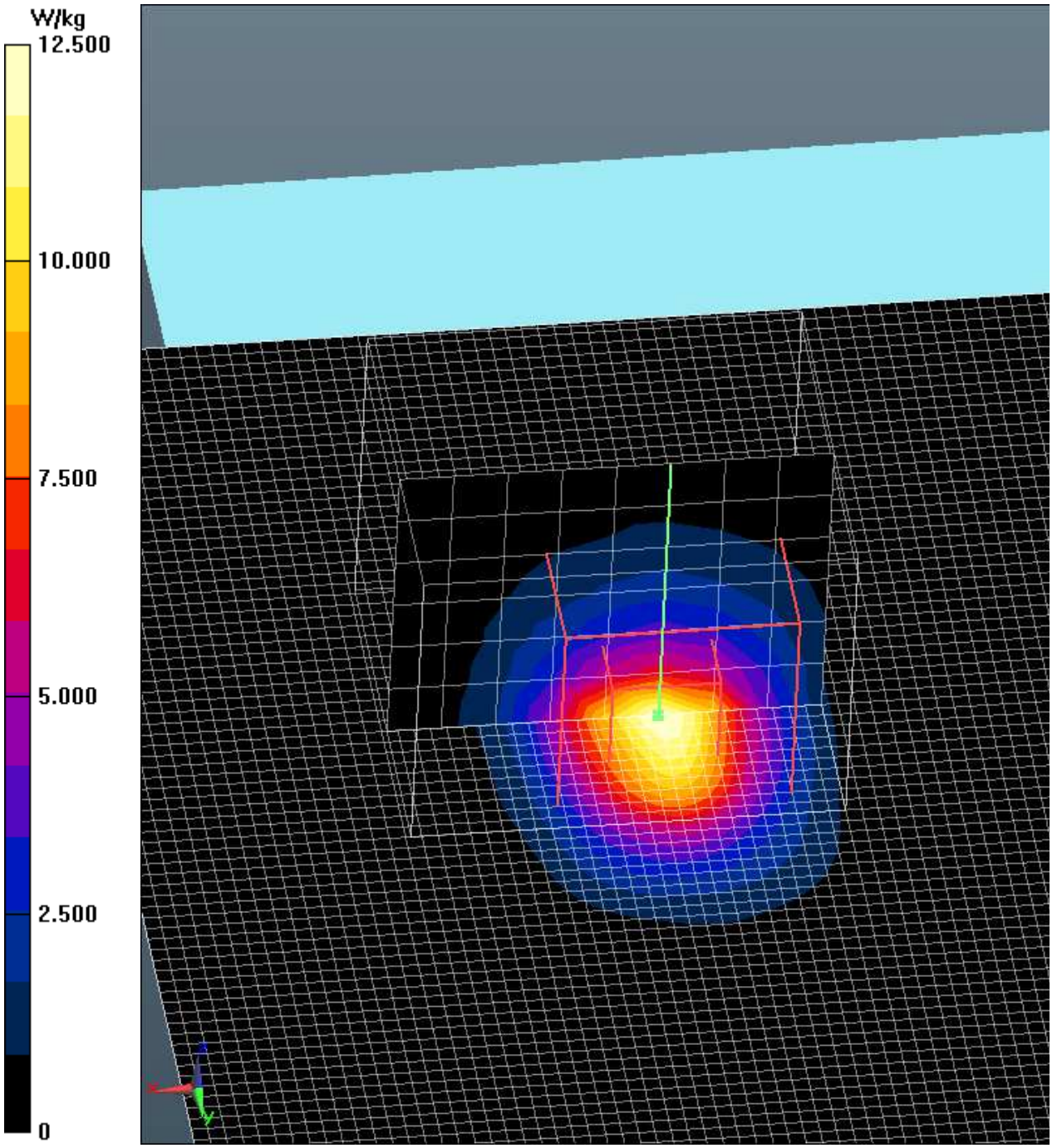
- Probe: EX3DV3 - SN3516; ConvF(8.62, 8.62, 8.62); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 2 with CRP v5.0; Type: QD000P40CD; Serial: TP:1663
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

WWAN Flat-Section MSL Testing/2nd Repeatability_Left Side High Channel_New SW Version/Area Scan (81x101x1): Interpolated grid: dx=1.500 mm, dy=1.500 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=5mm, dy=5mm, dz=5mm
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


W/kg
12.500
10.000
7.500
5.000
2.500
0

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; σ = 2.034 S/m; ε_r = 50.658; ρ = 1000 kg/m^3

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

DASY5 Configuration:

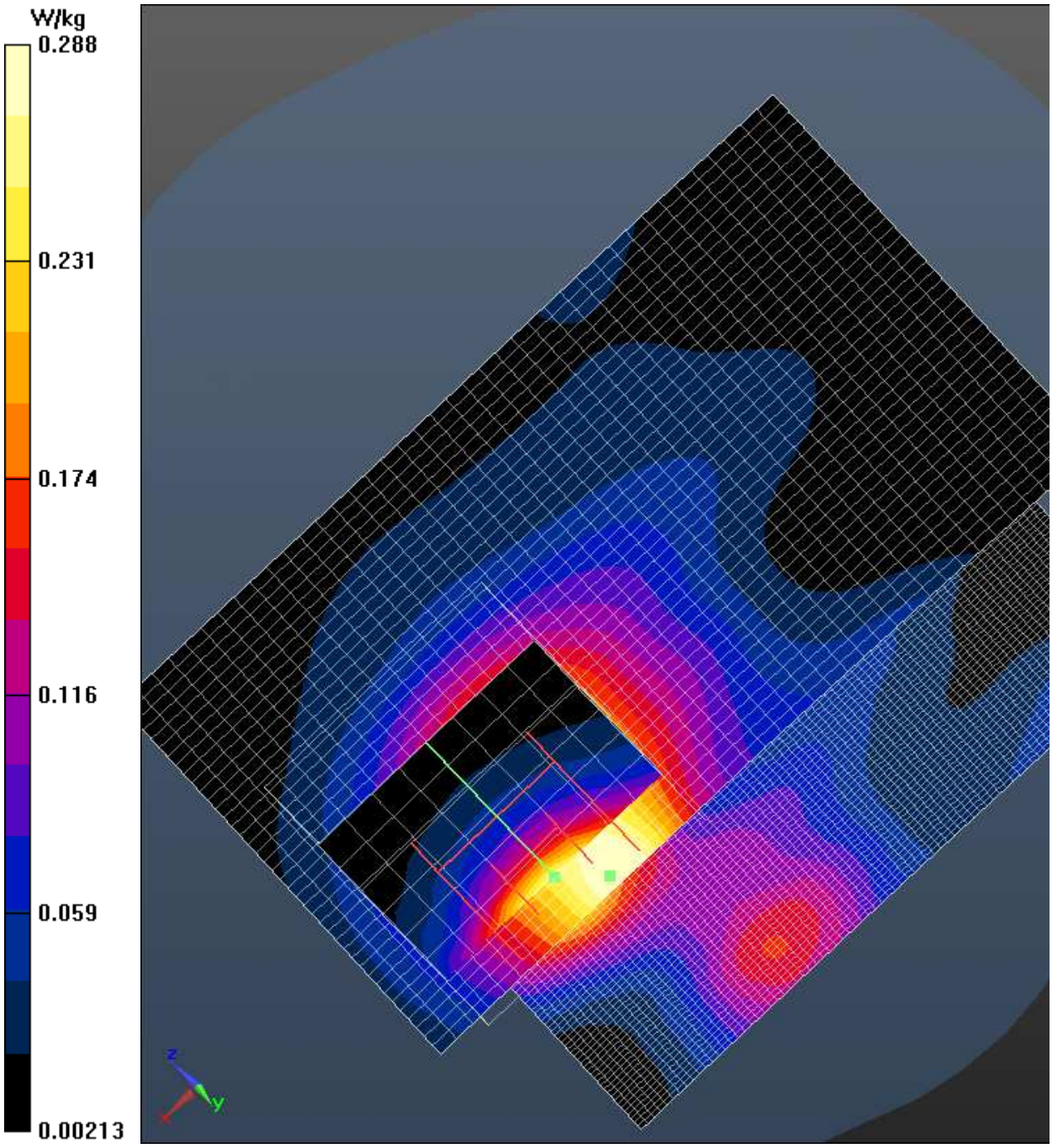
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Back 802.11B 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


W/kg
0.288
0.231
0.174
0.116
0.059
0.00213
z
y

Date/Time: 5/26/2016 5:03:37 PM

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; σ = 2.034 S/m; ε_r = 50.658; ρ = 1000 kg/m^3

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

DASY5 Configuration:

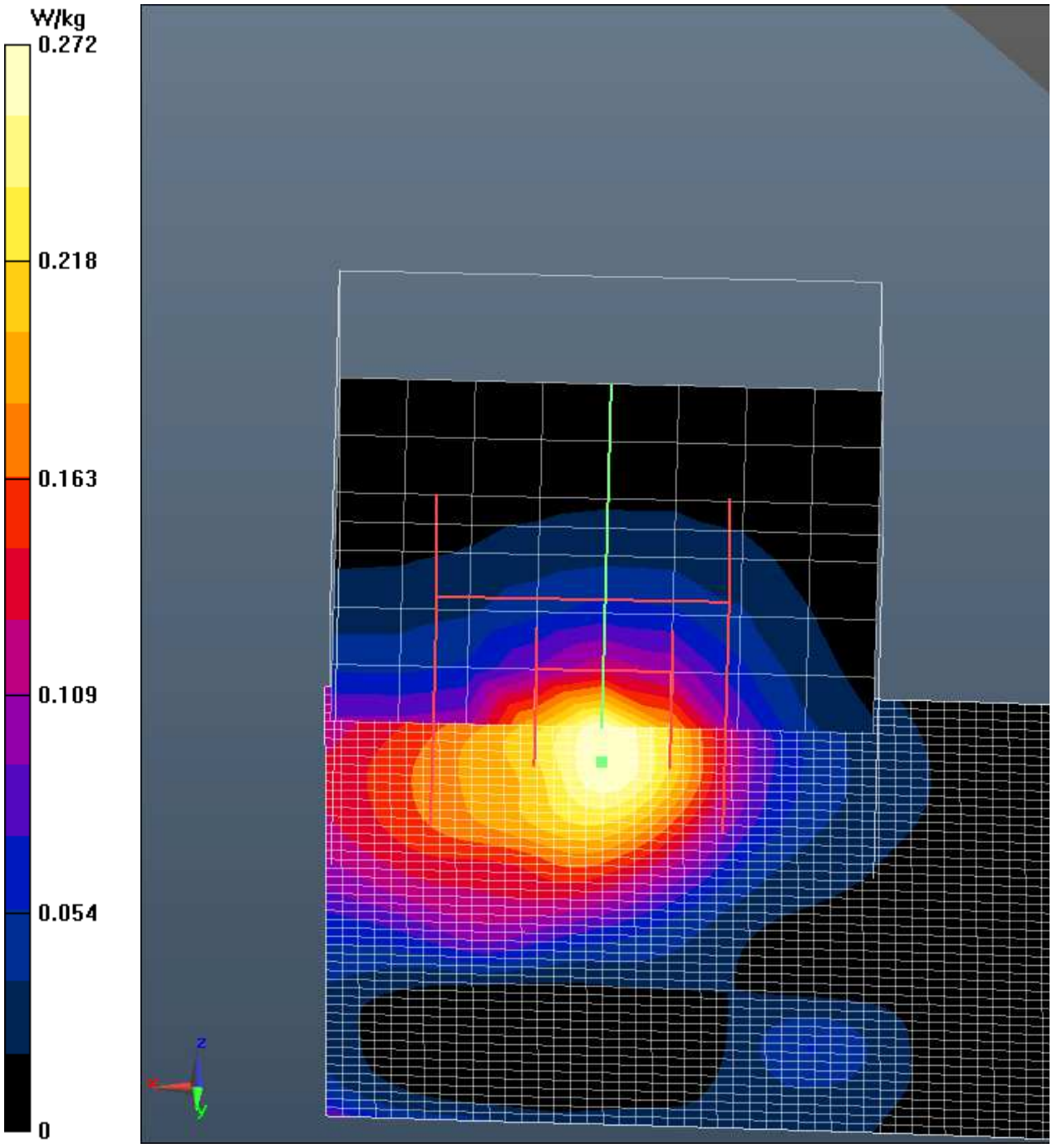
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/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


W/kg
0.272
0.218
0.163
0.109
0.054
0
z
x
y

Date/Time: 5/26/2016 5:33:27 PM

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; σ = 2.034 S/m; ε_r = 50.658; ρ = 1000 kg/m^3

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

DASY5 Configuration:

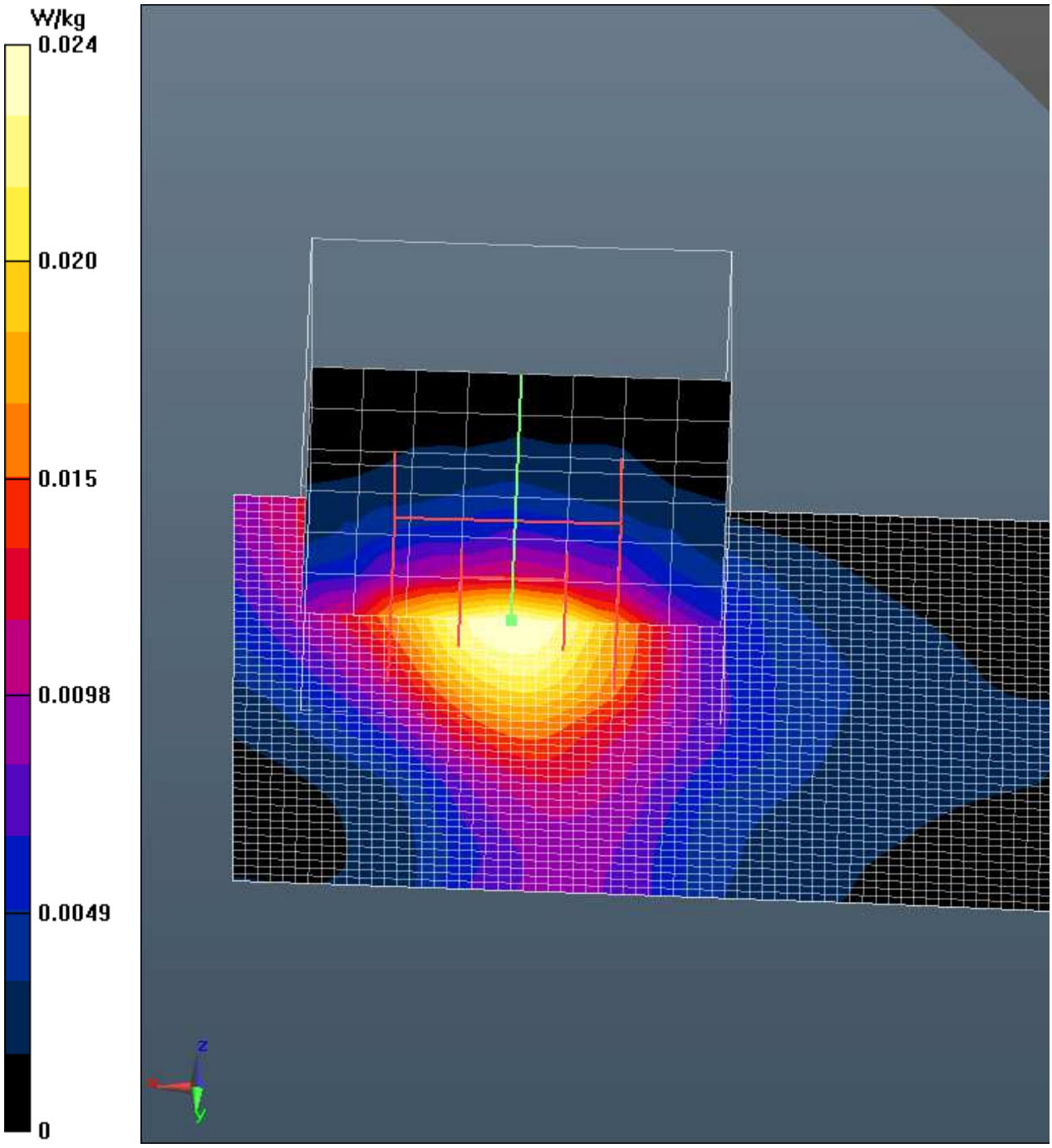
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/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


W/kg
0.024
0.020
0.015
0.0098
0.0049
0
z
y

Date/Time: 5/26/2016 6:02:34 PM

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; σ = 2.034 S/m; ε_r = 50.658; ρ = 1000 kg/m^3

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

DASY5 Configuration:

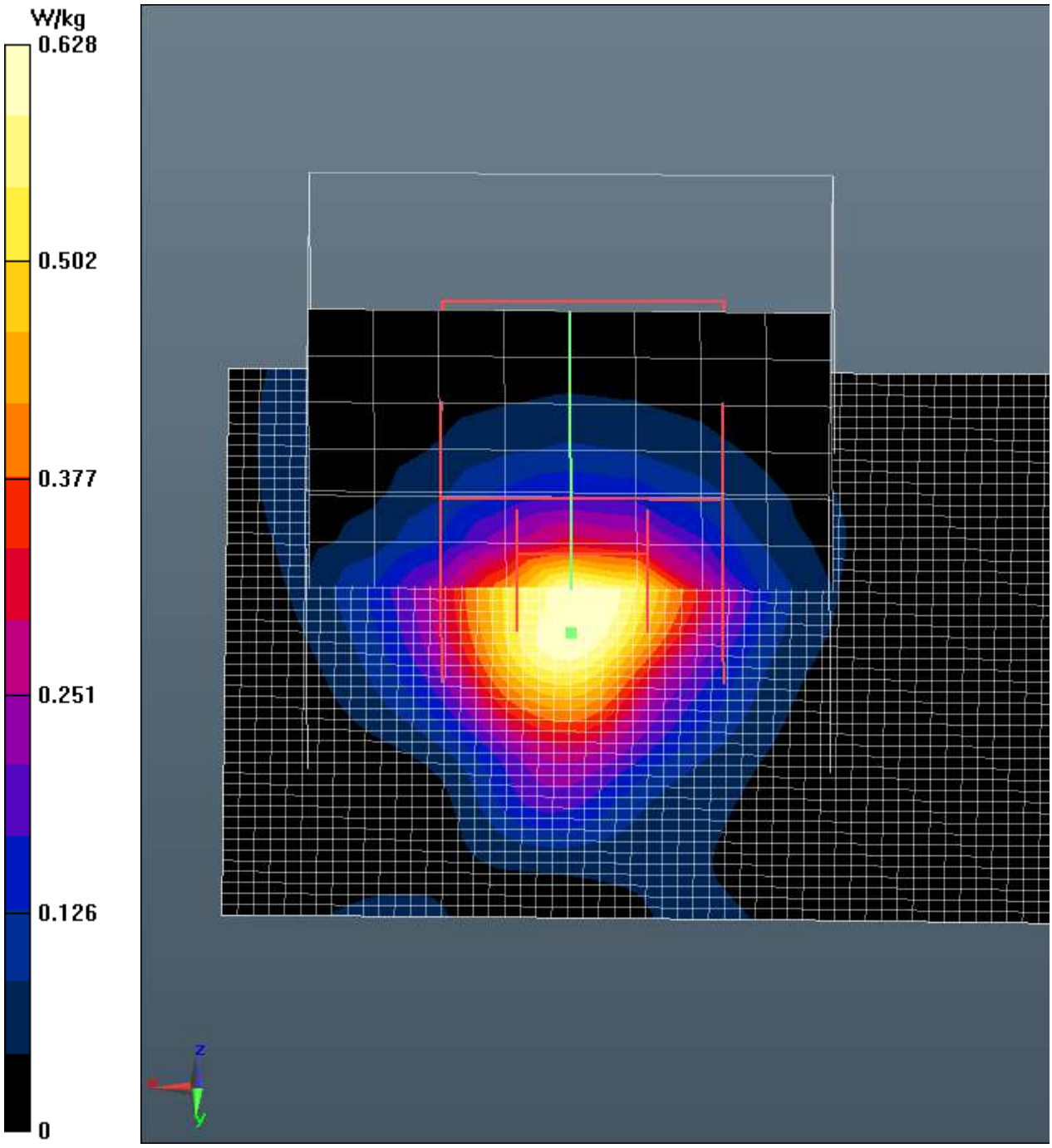
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/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


W/kg
0.628
0.502
0.377
0.251
0.126
0
z
x
y

Date/Time: 5/26/2016 7:25:33 PM

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 MHz; σ = 2.034 S/m; ε_r = 50.658; ρ = 1000 kg/m^3

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

DASY5 Configuration:

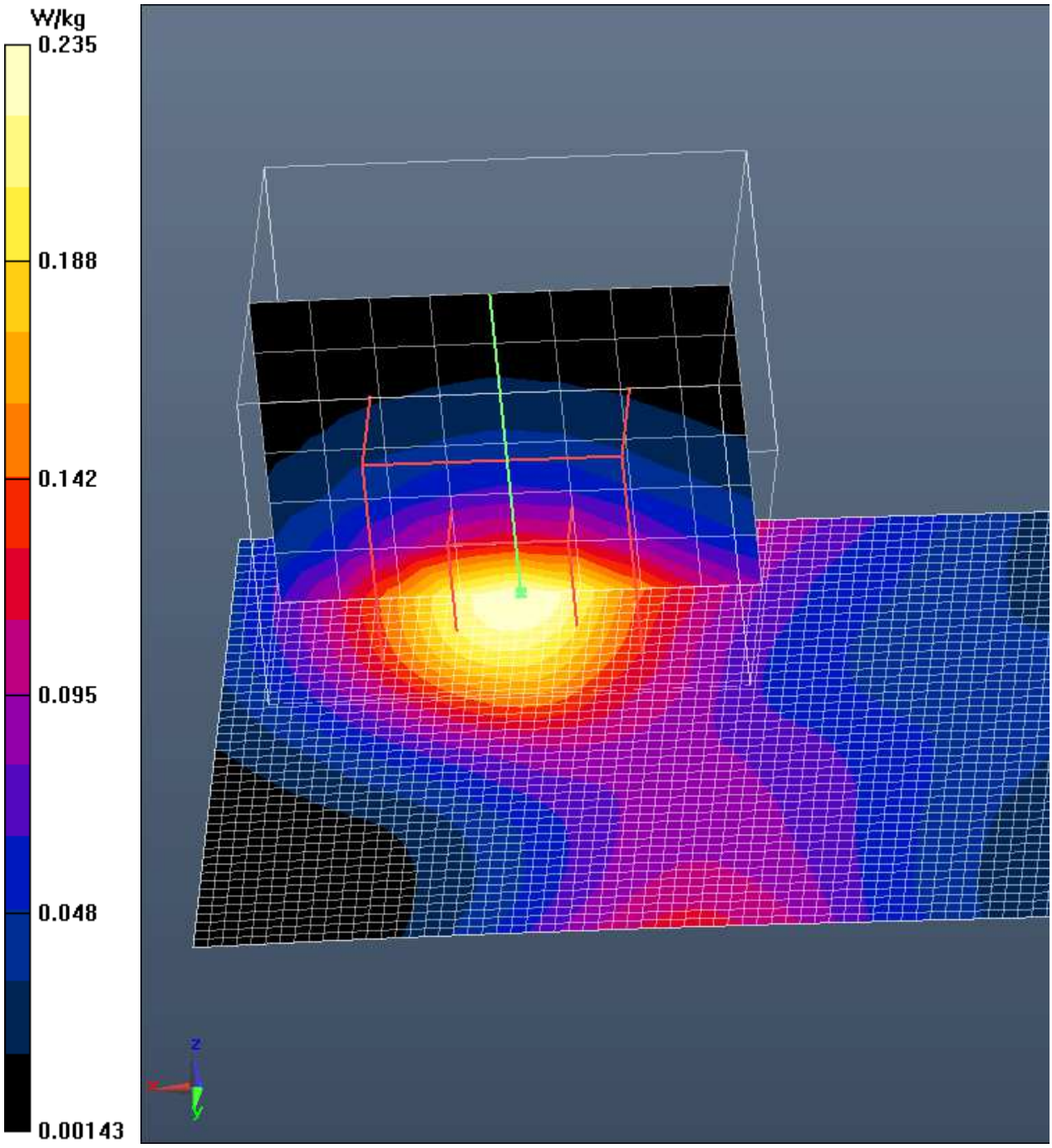
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/Back 802.11G Mid/Area Scan (81x51x1): Interpolated grid: dx=1.200 mm, dy=1.200 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=5mm, dy=5mm, dz=5mm
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


W/kg
0.235
0.188
0.142
0.095
0.048
0.00143
z
x
y

Date/Time: 5/26/2016 9:16:53 PM

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; σ = 2.034 S/m; ε_r = 50.658; ρ = 1000 kg/m^3

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

DASY5 Configuration:

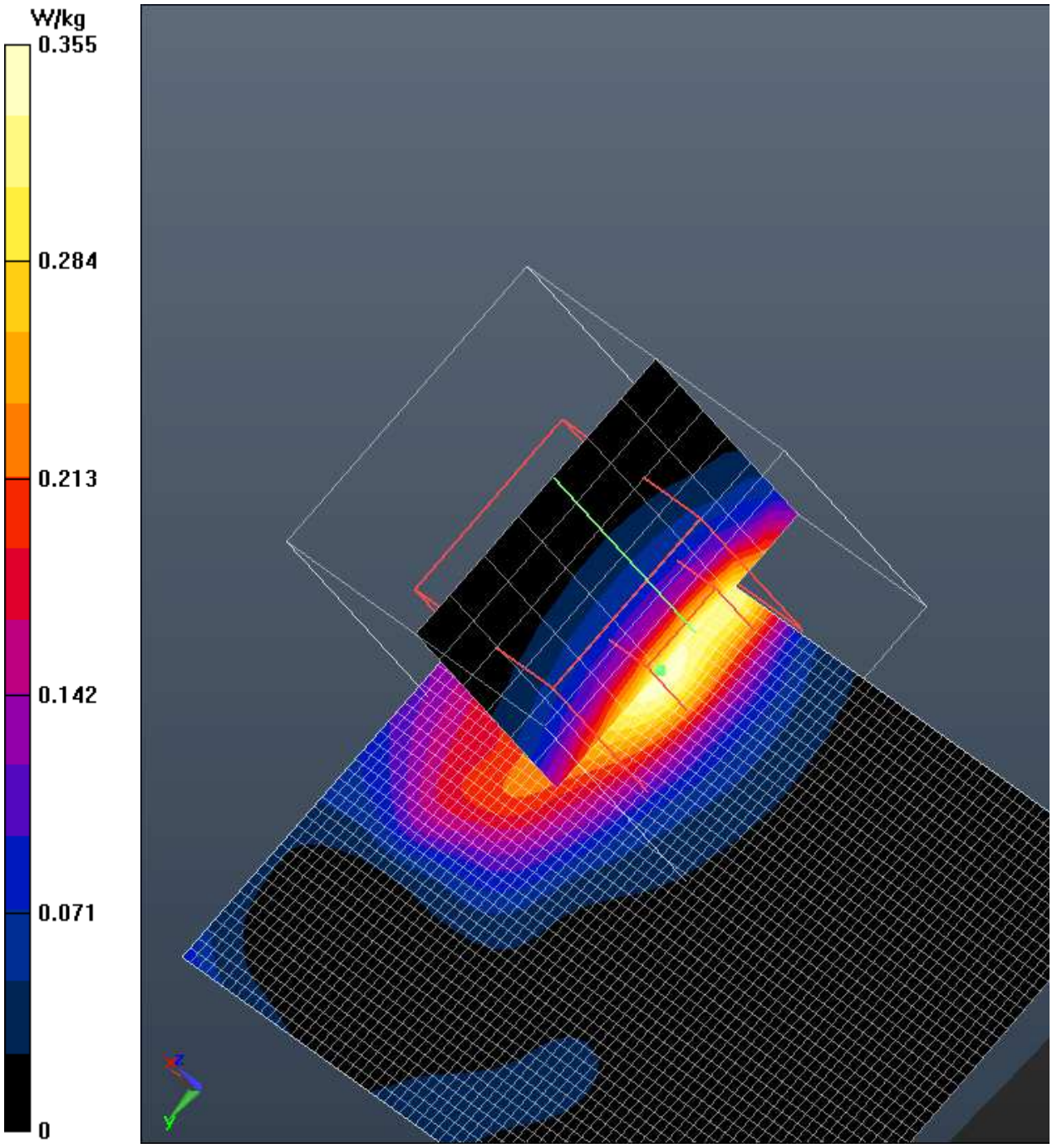
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/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


W/kg
0.355
0.284
0.213
0.142
0.071
0

Date/Time: 5/26/2016 9:44:36 PM

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; σ = 2.034 S/m; ε_r = 50.658; ρ = 1000 kg/m^3

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

DASY5 Configuration:

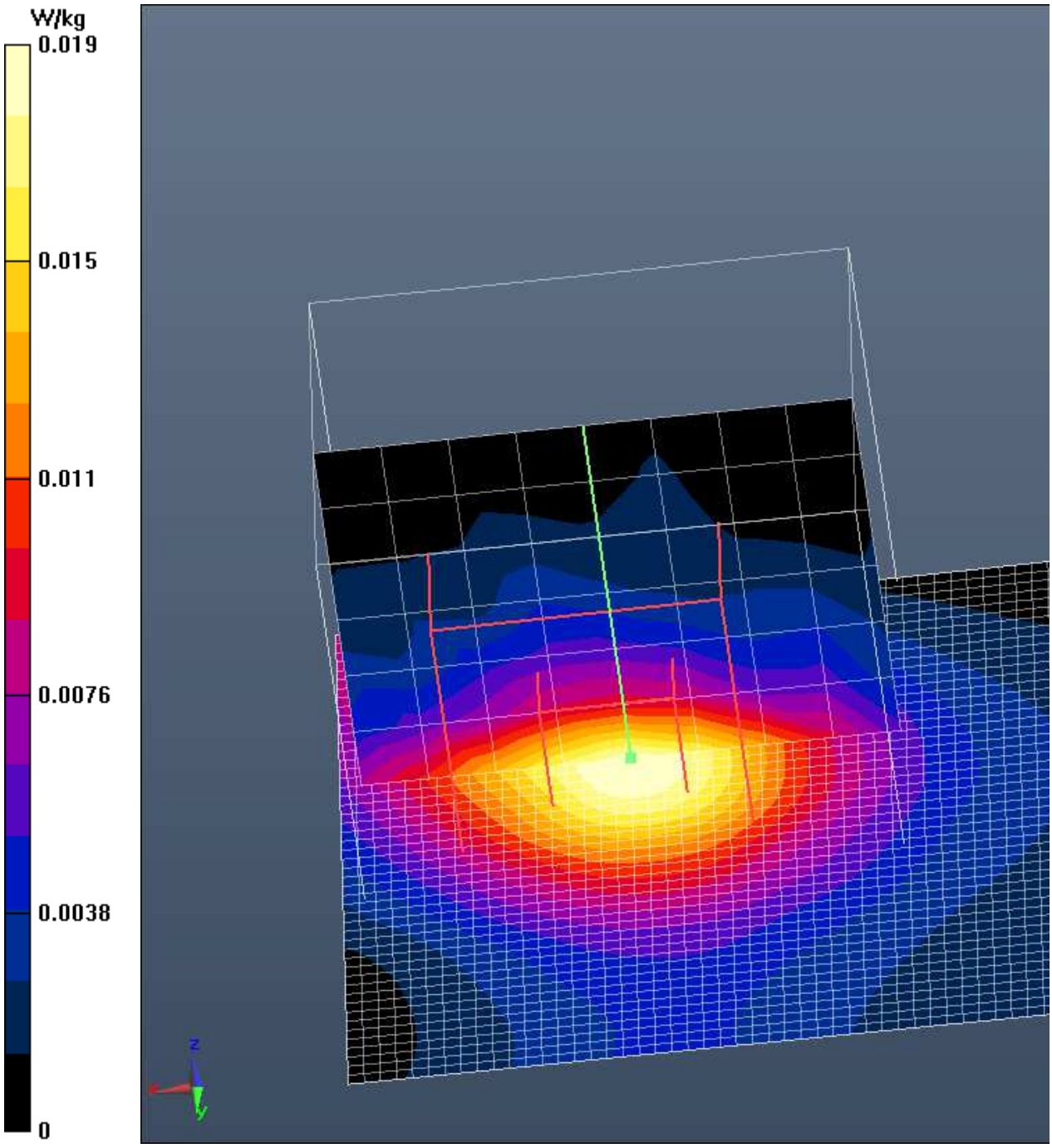
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/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


W/kg
0.019
0.015
0.011
0.0076
0.0038
0
z
x
y

Date/Time: 5/26/2016 10:13:11 PM

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; σ = 2.034 S/m; ε_r = 50.658; ρ = 1000 kg/m^3

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

DASY5 Configuration:

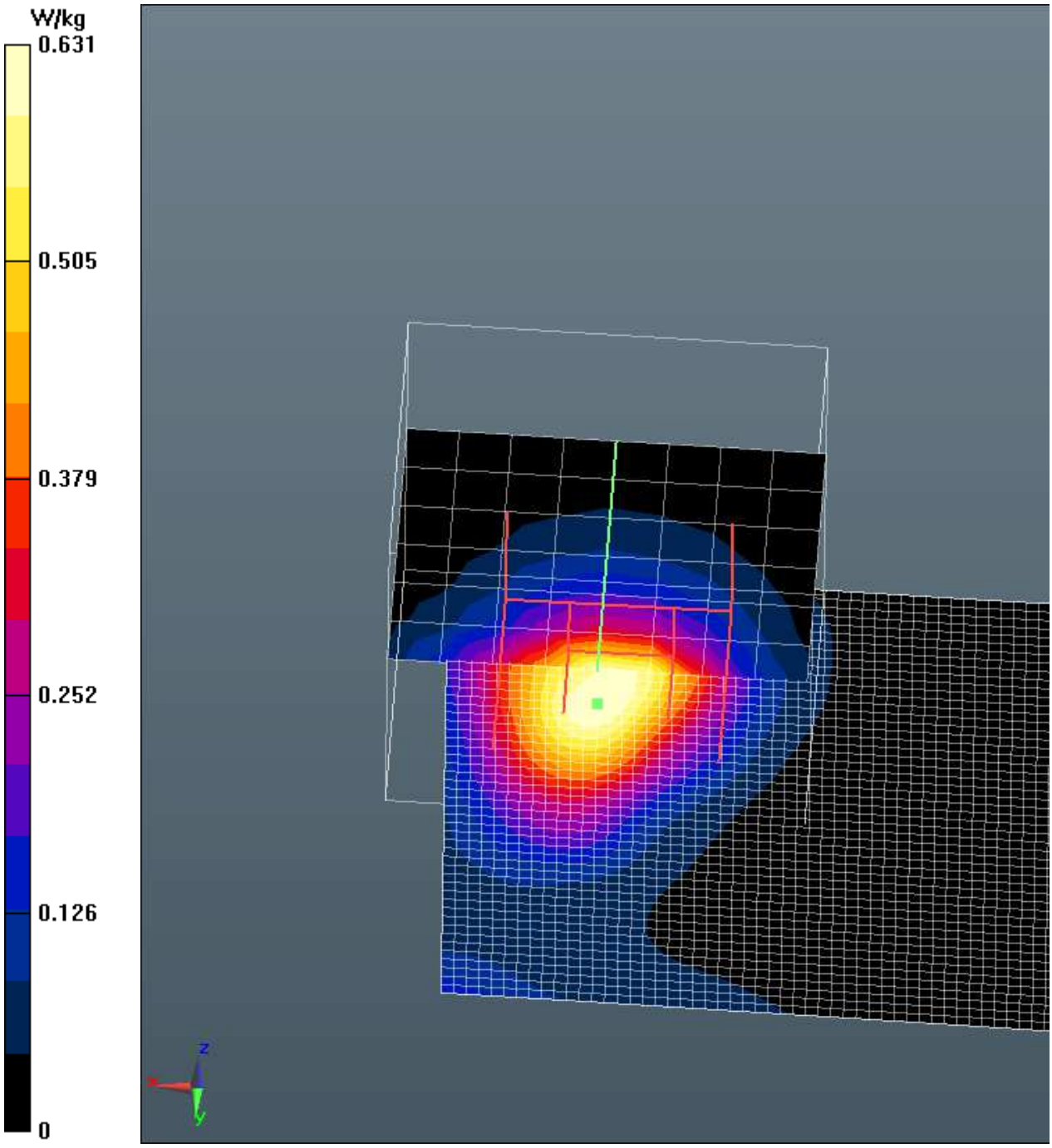
- Probe: EX3DV3 - SN3516; ConvF(8.19, 8.19, 8.19); Calibrated: 12/16/2015;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn358; Calibrated: 9/16/2015
- Phantom: SAM 1 with CRP v5.0; Type: QD000P40CD; Serial: TP: 1243
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7331)

WWAN Flat-Section MSL Testing 2/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


W/kg
0.631
0.505
0.379
0.252
0.126
0
z
x
y