

# SAR Test Report

## Part 2 of 3

**Project Number:** 4643717      **Quotation Number:** 02062020NG-1.3  
**Report Number:** 4643717EMC04      **Revision Level:** 1  
**Client:** Track Group, Inc.

**Equipment Under Test:** GPS Ankle Bracelet  
**Model Name/Number:** OTD 4.1

**FCC ID** TPO-OTD41  
**IC** 6512A-OTD41

**Applicable Standards:** IEC 62209-2 2010

**Report issued on:** 16 Sept 2020

**Test Result:** Compliant

Tested by:



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Stephen C. Whalen, EMC/RF Exposure Manager

Reviewed by:



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David Schramm, Operations Manager

*Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

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## APPENDIX A - PHOTOS OF EUT AND TEST POSITION(S)

**EUT Standalone**



**Front of EUT**



**Back of EUT**



**Right side of EUT**



**Left side of EUT**

Internal Antenna



**Internal Photo of EUT**

### **EUT Accessories**



**EUT Secure Cuff**



**EUT with Flexible Strap**

### EUT Test Position



Top view of EUT against flat area of phantom with 0mm spacing



Side view of EUT against flat area of phantom with 0mm spacing

## APPENDIX B - LTE DATA

**SGS North America  
SAR Laboratory  
Date/Time: 8/6/2020 3:02:37 PM**

**Plot # 1**

**DUT: OTD 4.1**

DASY5 Configuration:

- Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.98, 4.98, 4.98) @ 1880 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.448$  S/m;  $\epsilon_r = 39.687$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**Below 2GHz Flat Head/Flat Scan/Area Scan (81x81x1):**

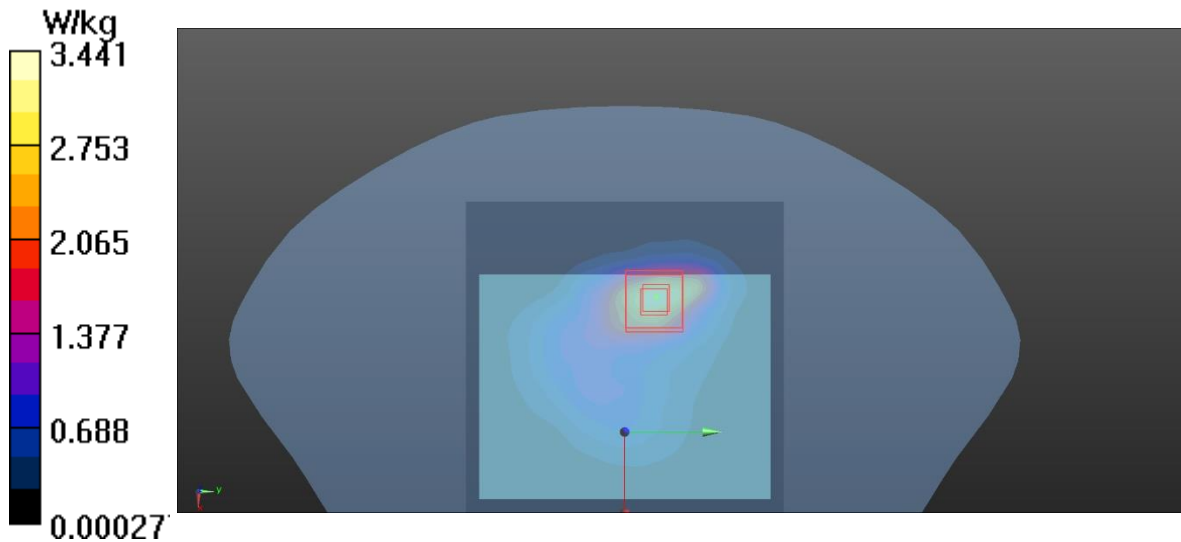
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 26.97 V/m; Power Drift = -0.46 dB  
Maximum value of SAR (interpolated) = 3.24 W/kg

**Below 2GHz Flat Head/Flat Scan/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 26.97 V/m; Power Drift = -0.46 dB  
Peak SAR (extrapolated) = 6.43 W/kg  
**SAR(1 g) = 3.03 W/kg; SAR(10 g) = 1.43 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 3.36 W/kg

**Below 2GHz Flat Head/Flat Scan/Z Scan (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm





**SGS North America  
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**Plot # 2  
DUT: OTD 4.1**

DASY5 Configuration:

- Communication System: UID 10169 - CAE, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1732.5 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.07, 5.07, 5.07) @ 1732.5 MHz; Calibrated: 2/19/2020
- Medium parameters used (interpolated):  $f = 1732.5$  MHz;  $\sigma = 1.364$  S/m;  $\epsilon_r = 39.895$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**Below 2GHz Flat Head/Flat Scan/Area Scan (81x81x1):**

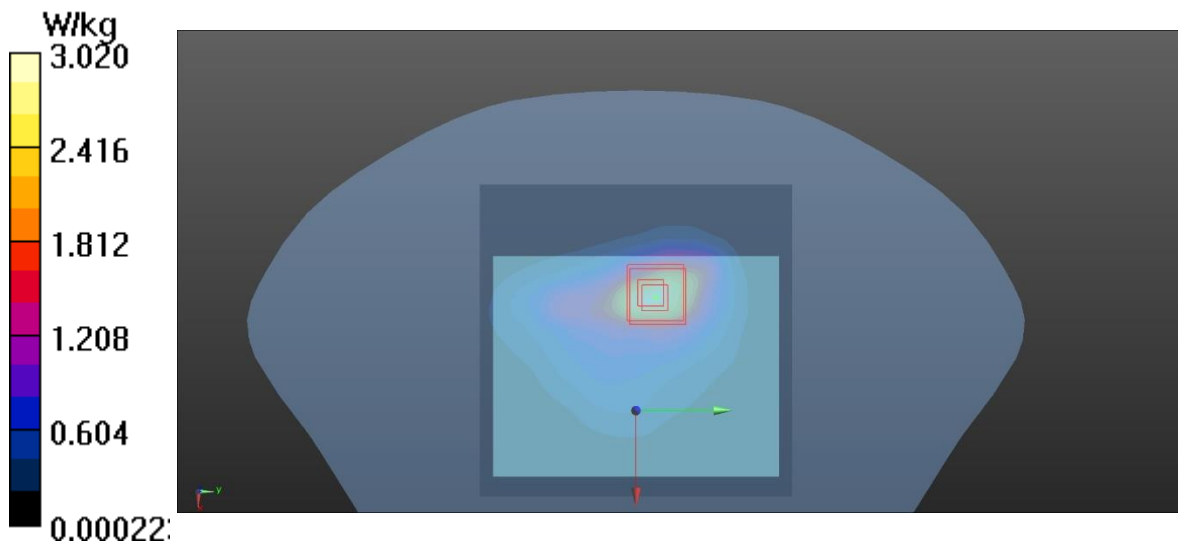
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 23.30 V/m; Power Drift = -0.78 dB  
Maximum value of SAR (interpolated) = 2.89 W/kg

**Below 2GHz Flat Head/Flat Scan/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 23.30 V/m; Power Drift = -0.78 dB  
Peak SAR (extrapolated) = 5.06 W/kg  
**SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.19 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 2.68 W/kg

**Below 2GHz Flat Head/Flat Scan/Z Scan (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm



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SAR Laboratory  
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**Plot # 3  
DUT: OTD 4.1**

DASY5 Configuration:

- Communication System: UID 10175 - CAG, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 836.5 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.8, 5.8, 5.8) @ 836.5 MHz; Calibrated: 2/19/2020
- Medium parameters used (interpolated):  $f = 836.5$  MHz;  $\sigma = 0.919$  S/m;  $\epsilon_r = 41.386$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**Below 2GHz Flat Head/Flat Scan/Area Scan (81x81x1):**

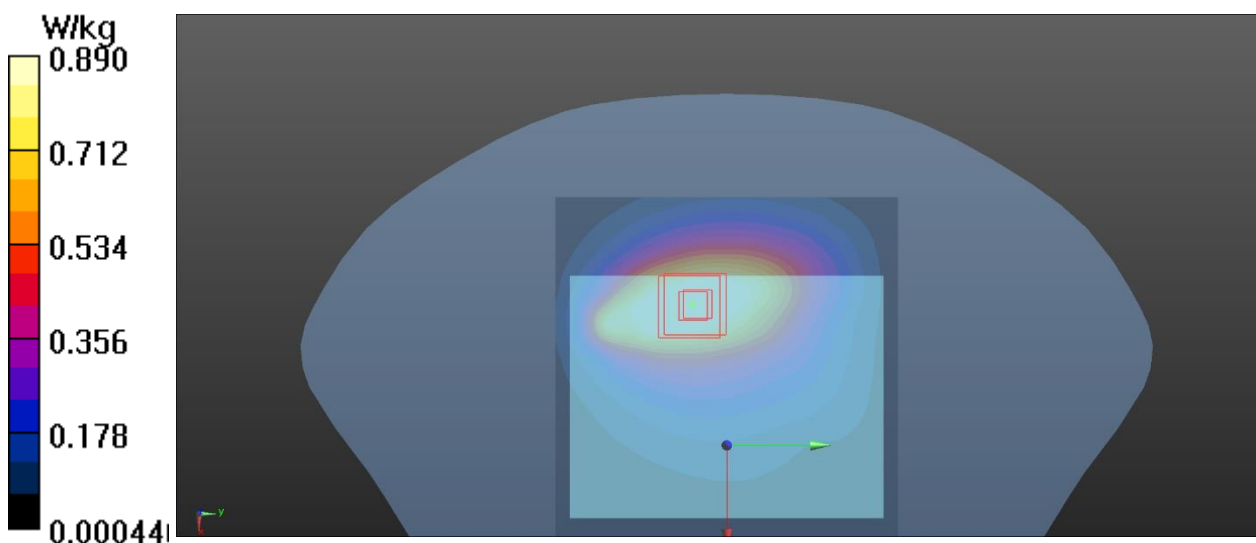
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 17.14 V/m; Power Drift = -0.64 dB  
Maximum value of SAR (interpolated) = 0.997 W/kg

**Below 2GHz Flat Head/Flat Scan/Zoom Scan (7x7x7)/Cube 0:**

Measurement grid: dx=5mm, dy=5mm, dz=5mm  
Reference Value = 17.14 V/m; Power Drift = -0.64 dB  
Peak SAR (extrapolated) = 1.13 W/kg  
**SAR(1 g) = 0.770 W/kg; SAR(10 g) = 0.506 W/kg** (SAR corrected for target medium)

**Below 2GHz Flat Head/Flat Scan/Z Scan (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm



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**Plot # 4**

**DUT: OTD 4.1**

DASY5 Configuration:

- Communication System: UID 10154 - CAG, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 707.5 MHz;
- Probe: ES3DV3 - SN3272; ConvF(6.18, 6.18, 6.18) @ 707.5 MHz; Calibrated: 2/19/2020
- Medium parameters used (interpolated):  $f = 707.5$  MHz;  $\sigma = 0.918$  S/m;  $\epsilon_r = 42.014$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**Below 2GHz Flat Head/Flat Scan/Area Scan (81x81x1):**

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

Reference Value = 21.88 V/m; Power Drift = -0.05 dB

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

**Below 2GHz Flat Head/Flat Scan/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

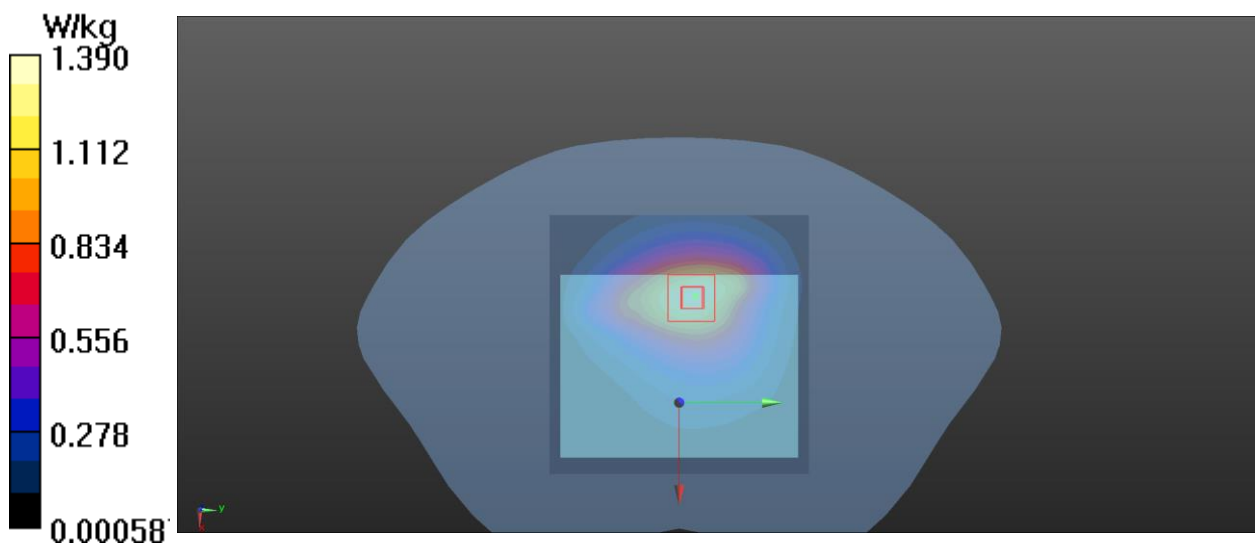
Reference Value = 21.88 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 1.79 W/kg

**SAR(1 g) = 1.18 W/kg; SAR(10 g) = 0.763 W/kg** (SAR corrected for target medium)

**Below 2GHz Flat Head/Flat Scan/Z Scan (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm



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**Plot # 5**

**DUT: OTD 4.1**

DASY5 Configuration:

- Communication System: UID 10154 - CAG, LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK); Frequency: 782 MHz;
- Probe: ES3DV3 - SN3272; ConvF(6.18, 6.18, 6.18) @ 782 MHz; Calibrated: 2/19/2020
- Medium parameters used (interpolated):  $f = 782 \text{ MHz}$ ;  $\sigma = 0.941 \text{ S/m}$ ;  $\epsilon_r = 41.666$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**Below 2GHz Flat Head/Flat Scan/Area Scan (81x81x1):**

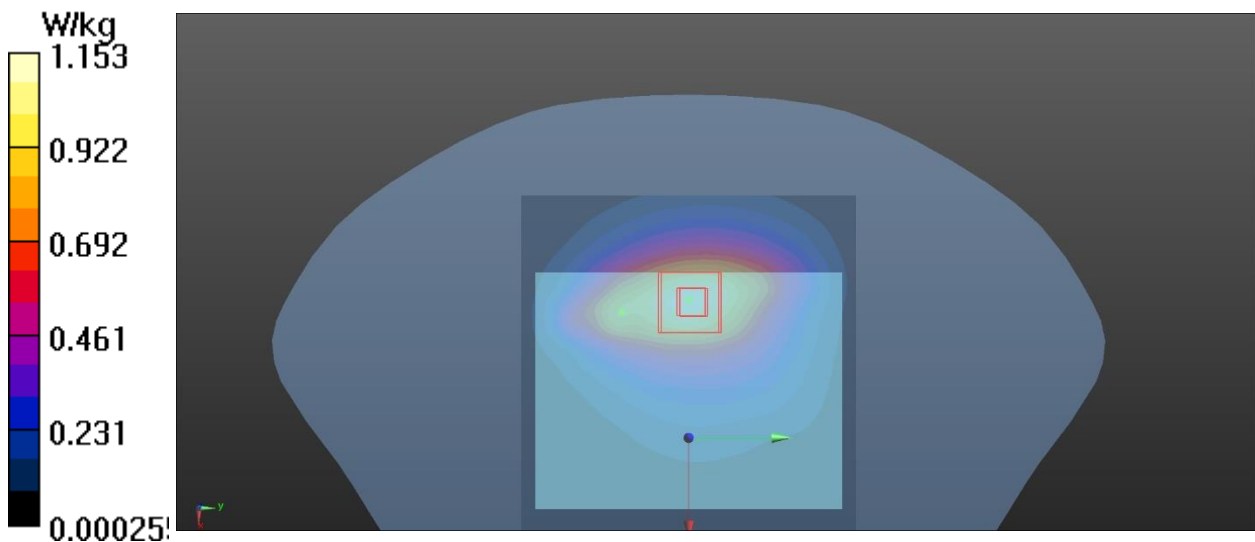
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Reference Value = 18.55 V/m; Power Drift = -0.09 dB  
 Maximum value of SAR (interpolated) = 1.12 W/kg

**Below 2GHz Flat Head/Flat Scan/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 18.55 V/m; Power Drift = -0.09 dB  
 Peak SAR (extrapolated) = 1.50 W/kg  
**SAR(1 g) = 0.989 W/kg; SAR(10 g) = 0.637 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 1.07 W/kg

**Below 2GHz Flat Head/Flat Scan/Z Scan (1x1x17):**

Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$



## APPENDIX C - WCDMA DATA

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Date/Time: 8/11/2020 10:21:04 AM**

**Plot # 6  
DUT: OTD 4.1**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 1880 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.98, 4.98, 4.98) @ 1880 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 1880$  MHz;  $\sigma = 1.446$  S/m;  $\epsilon_r = 39.452$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**Below 2GHz Flat Head/Flat Scan/Area Scan (81x81x1):**

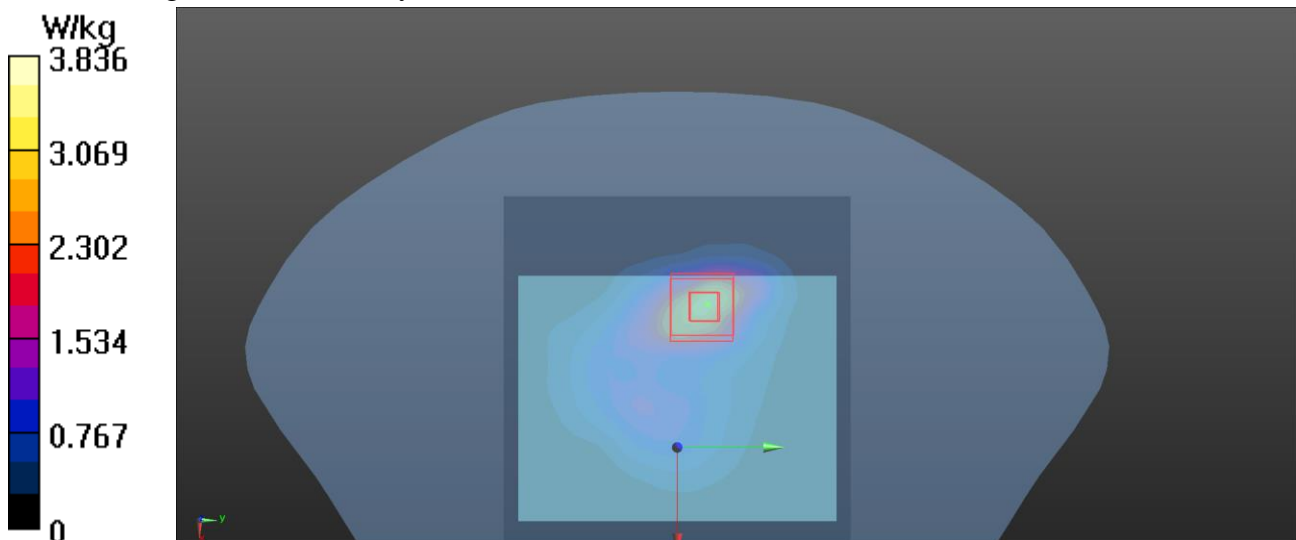
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 30.53 V/m; Power Drift = -0.17 dB  
Maximum value of SAR (interpolated) = 3.29 W/kg

**Below 2GHz Flat Head/Flat Scan/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 30.53 V/m; Power Drift = -0.17 dB  
Peak SAR (extrapolated) = 6.54 W/kg  
**SAR(1 g) = 3.04 W/kg; SAR(10 g) = 1.43 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 3.42 W/kg

**Below 2GHz Flat Head/Flat Scan/Z Scan (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm



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**Date/Time: 8/17/2020 2:15:25 PM**

**Plot # 7**

**DUT: OTD 4.1**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 846.6 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.8, 5.8, 5.8) @ 846.6 MHz; Calibrated: 2/19/2020
- Medium parameters used (interpolated):  $f = 846.6$  MHz;  $\sigma = 0.944$  S/m;  $\epsilon_r = 41.19$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**Below 2GHz Flat Head/Flat Scan/Area Scan (81x81x1):**

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

Reference Value = 15.19 V/m; Power Drift = 0.02 dB

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

**Below 2GHz Flat Head/Flat Scan/Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 15.19 V/m; Power Drift = 0.02 dB

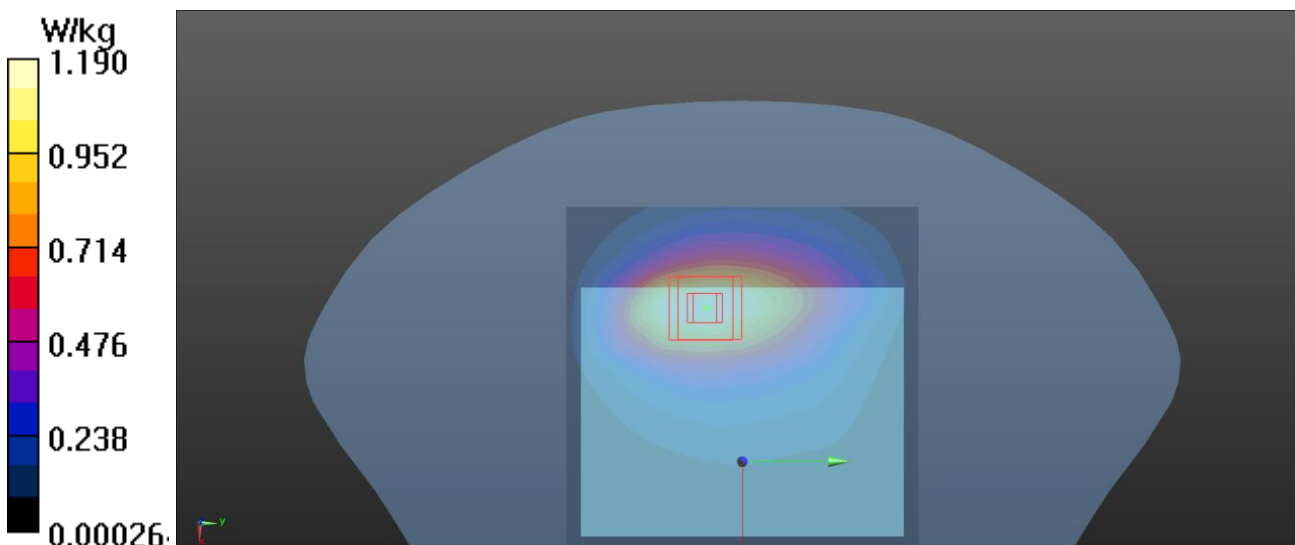
Peak SAR (extrapolated) = 1.51 W/kg

**SAR(1 g) = 1.03 W/kg; SAR(10 g) = 0.668 W/kg** (SAR corrected for target medium)

Maximum value of SAR (measured) = 1.11 W/kg

**Below 2GHz Flat Head/Flat Scan/Z Scan (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm



## APPENDIX D – SYSTEM VERIFICATIONS



**SGS North America  
SAR Laboratory  
Date/Time: 8/6/2020 9:12:27 AM**

**DUT: Dipole 1750 MHz D1750V2**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 1750 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.07, 5.07, 5.07) @ 1750 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 1750$  MHz;  $\sigma = 1.373$  S/m;  $\epsilon_r = 39.871$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**System validation below 2GHz/System verification/Dipole Area Scan 2 (31x131x1):**

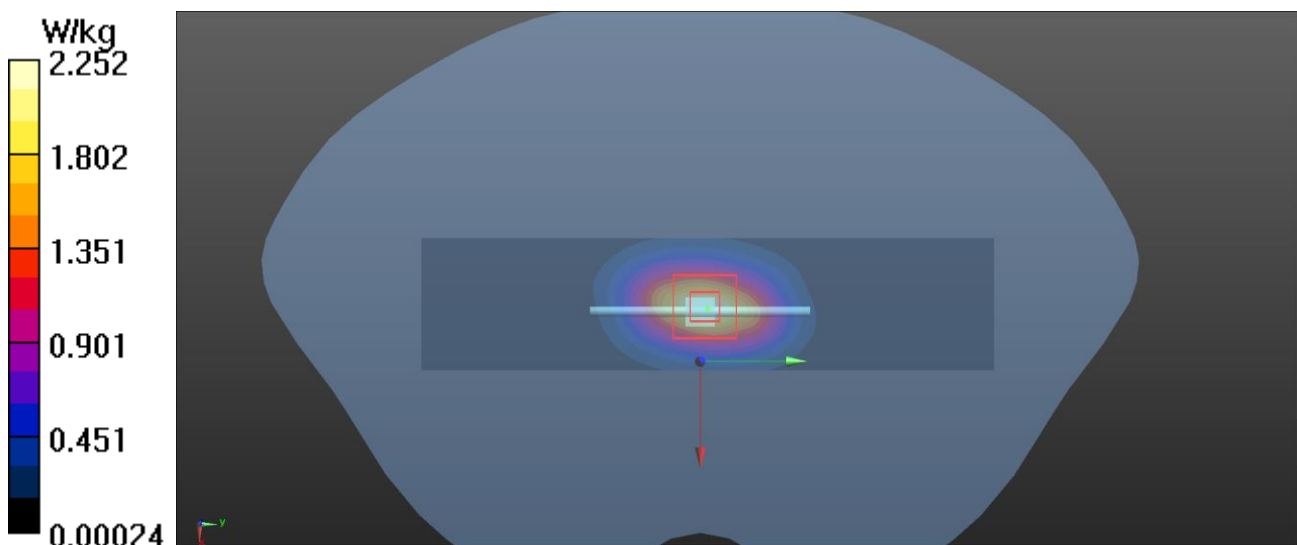
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 42.13 V/m; Power Drift = 0.00 dB  
Maximum value of SAR (interpolated) = 2.20 W/kg

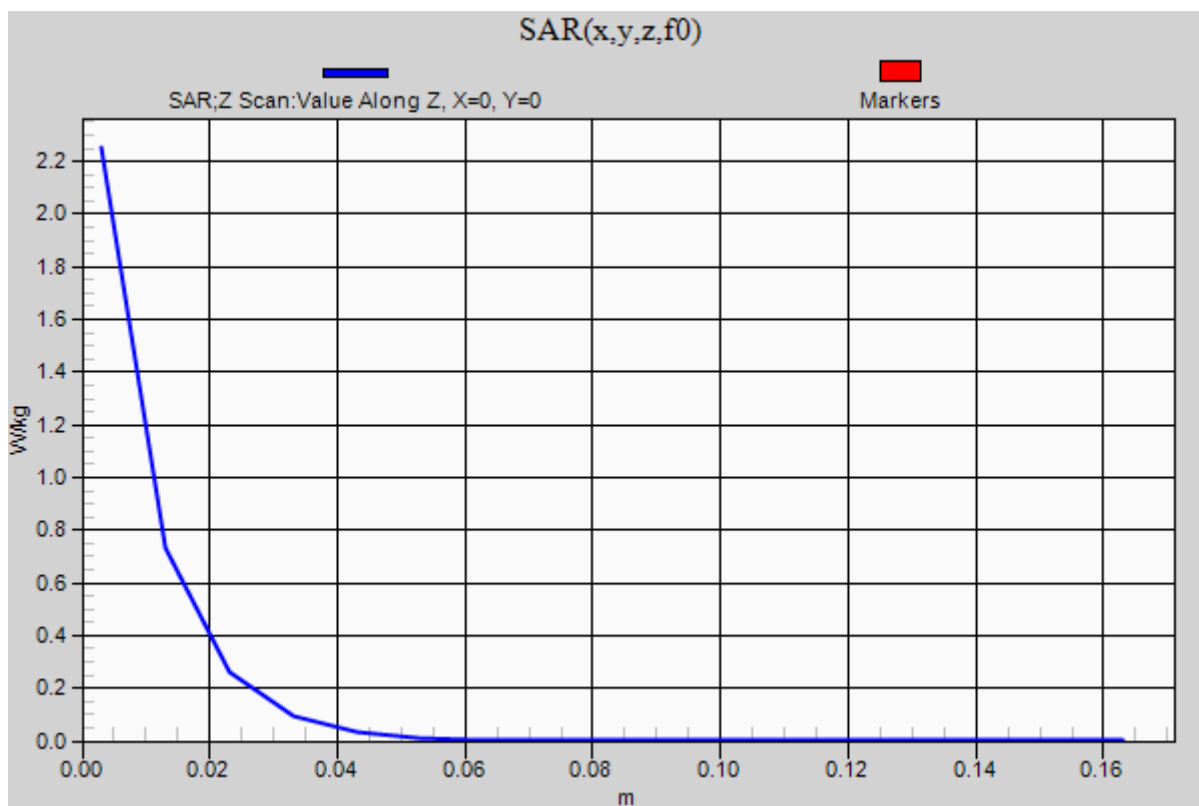
**System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 42.13 V/m; Power Drift = 0.00 dB  
Peak SAR (extrapolated) = 3.14 W/kg  
**SAR(1 g) = 1.77 W/kg; SAR(10 g) = 0.940 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 2.25 W/kg

**System validation below 2GHz/System verification/Z Scan (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm





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Date/Time: 8/6/2020 12:40:49 PM**

**DUT: Dipole 1900 MHz D1900V2**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 1900 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.98, 4.98, 4.98) @ 1900 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.459$  S/m;  $\epsilon_r = 39.654$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**System validation below 2GHz/System verification/Dipole Area Scan 2 (31x131x1):**

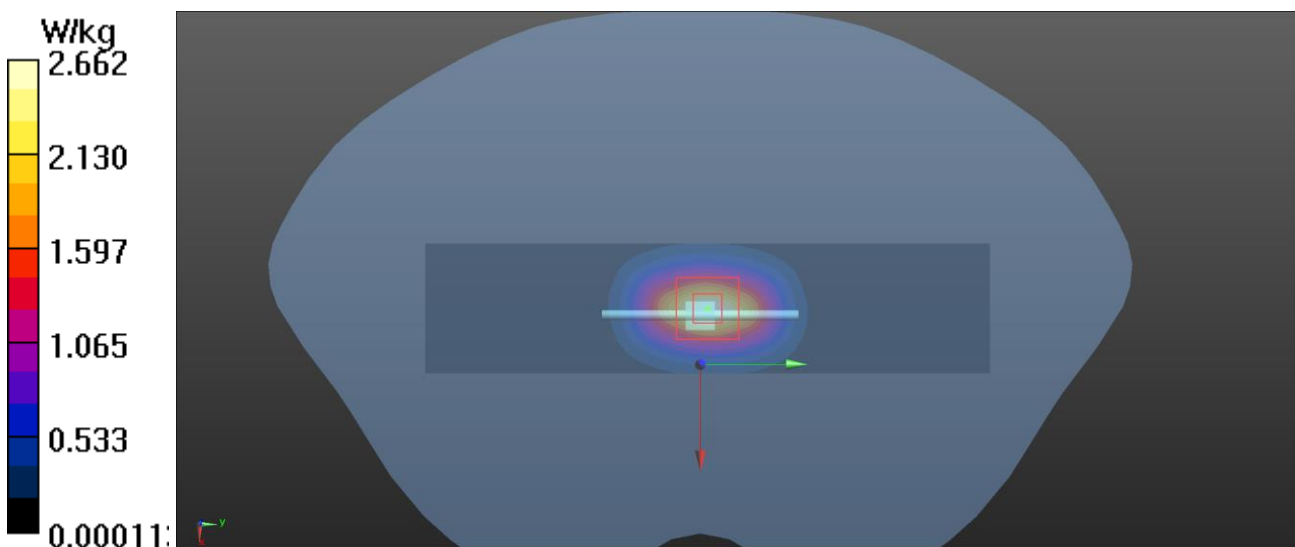
Interpolated grid:  $dx=1.500$  mm,  $dy=1.500$  mm  
Reference Value = 44.27 V/m; Power Drift = 0.02 dB  
Maximum value of SAR (interpolated) = 2.68 W/kg

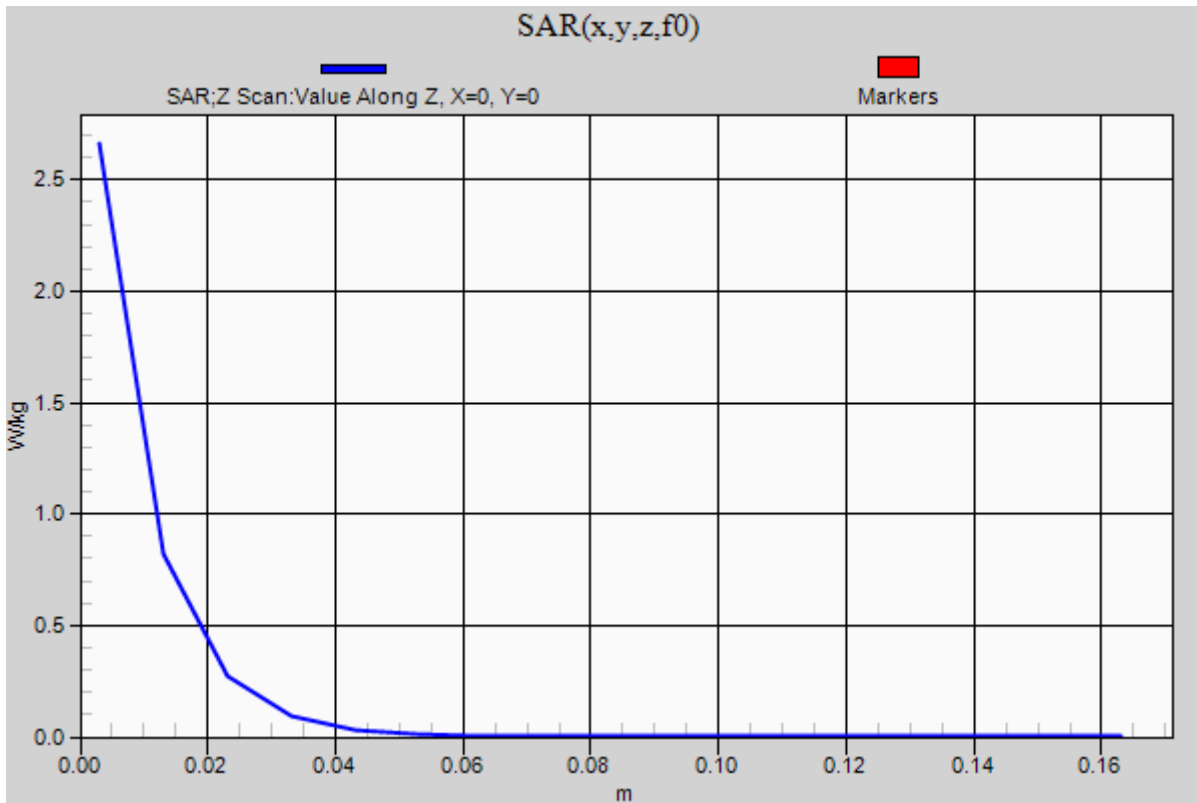
**System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5$ mm,  $dy=7.5$ mm,  $dz=5$ mm  
Reference Value = 44.27 V/m; Power Drift = 0.02 dB  
Peak SAR (extrapolated) = 3.83 W/kg  
**SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.06 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 2.68 W/kg

**System validation below 2GHz/System verification/Z Scan (1x1x17):**

Measurement grid:  $dx=20$ mm,  $dy=20$ mm,  $dz=10$ mm





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Date/Time: 8/7/2020 9:40:00 AM**

**DUT: Dipole 750 MHz D750V3**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 750 MHz;
- Probe: ES3DV3 - SN3272; ConvF(6.18, 6.18, 6.18) @ 750 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.887 \text{ S/m}$ ;  $\epsilon_r = 41.67$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**System validation below 2GHz/System verification/Dipole Area Scan 2 (31x131x1):**

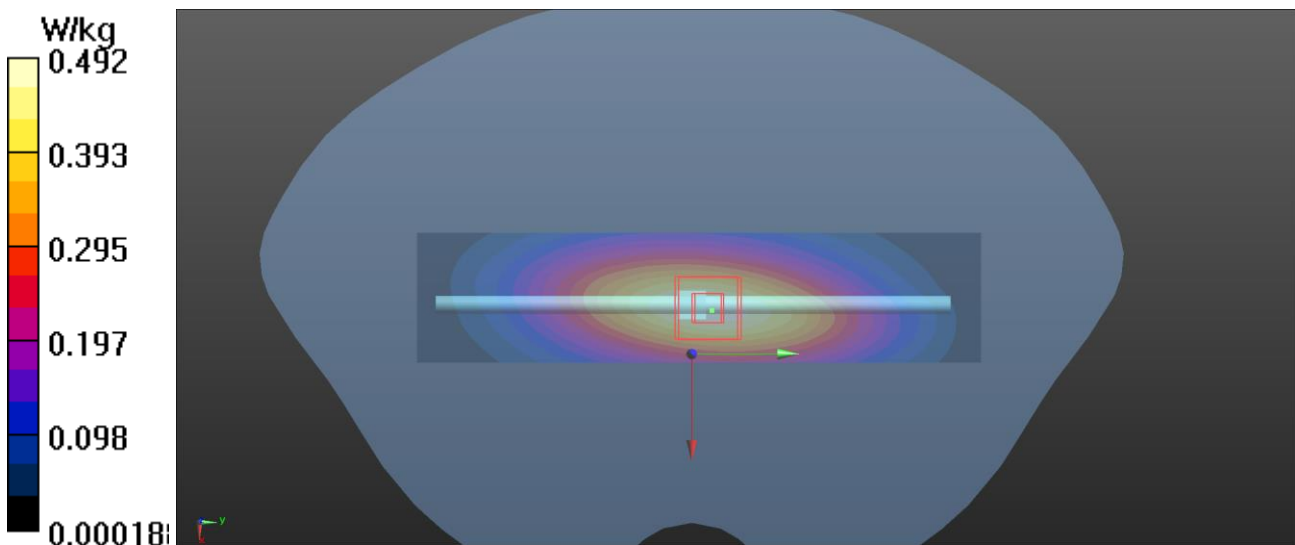
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Reference Value = 24.21 V/m; Power Drift = 0.01 dB  
 Maximum value of SAR (interpolated) = 0.483 W/kg

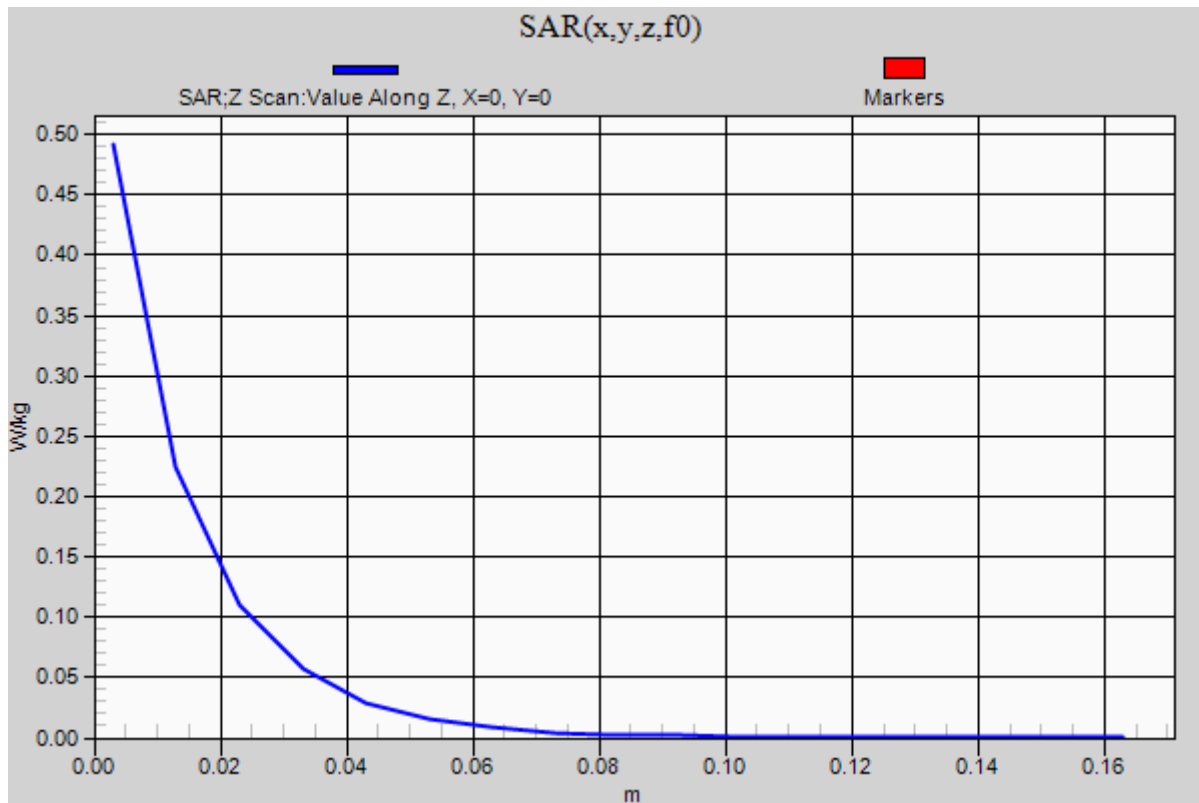
**System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 24.21 V/m; Power Drift = 0.01 dB  
 Peak SAR (extrapolated) = 0.624 W/kg  
**SAR(1 g) = 0.420 W/kg; SAR(10 g) = 0.275 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 0.491 W/kg

**System validation below 2GHz/System verification/Z Scan (1x1x17):**

Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$





**SGS North America  
SAR Laboratory  
Date/Time: 8/7/2020 12:34:53 PM**

**DUT: Dipole 835 MHz D835V2**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 835 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.8, 5.8, 5.8) @ 835 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.918 \text{ S/m}$ ;  $\epsilon_r = 41.391$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**System validation below 2GHz/System verification/Dipole Area Scan 2 (31x131x1):**

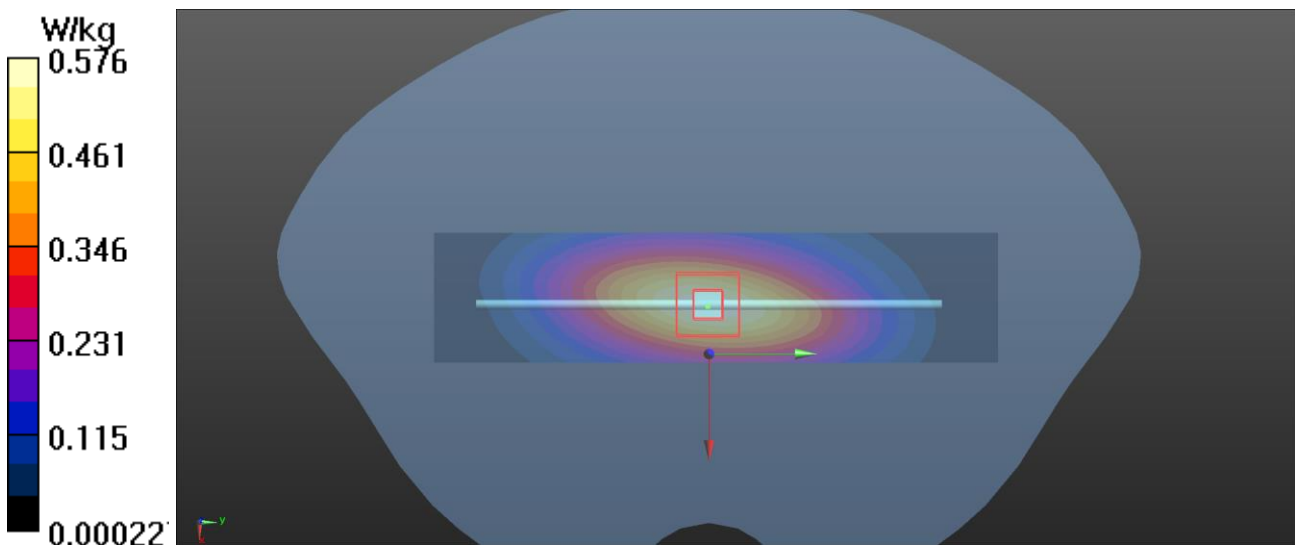
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Reference Value = 25.97 V/m; Power Drift = 0.00 dB  
 Maximum value of SAR (interpolated) = 0.561 W/kg

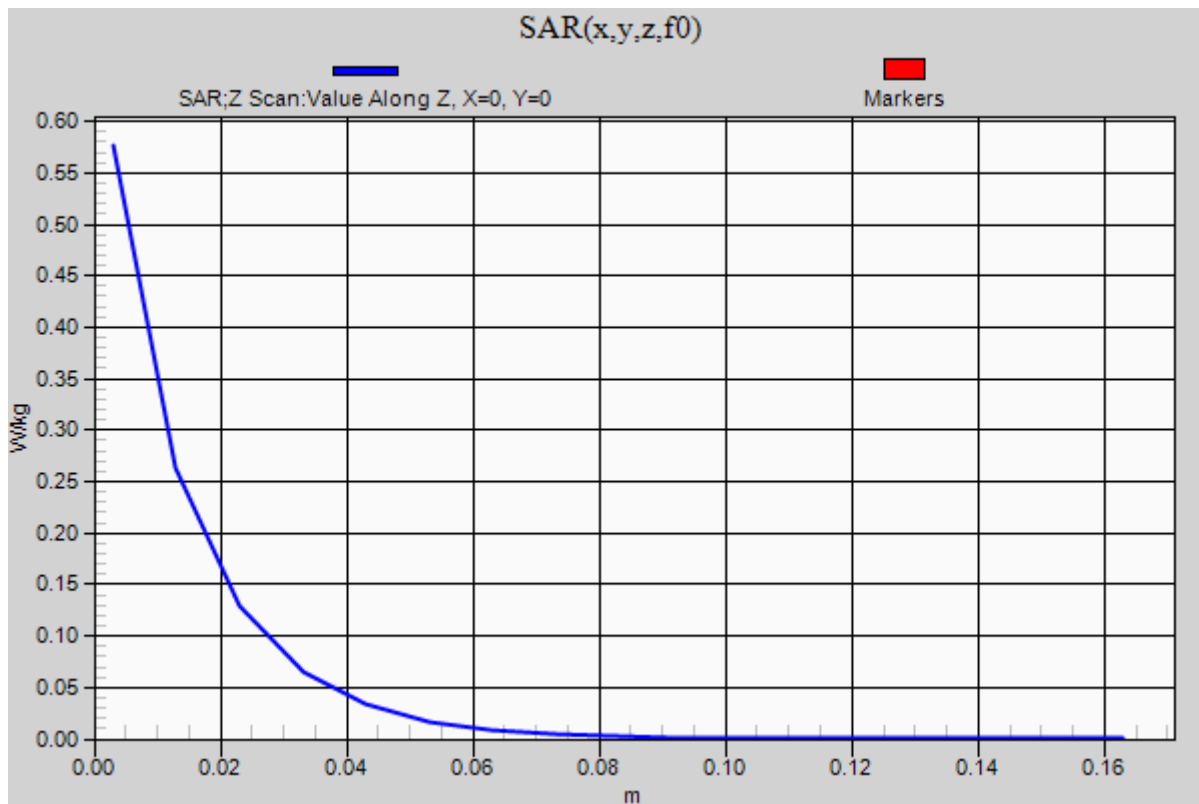
**System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 25.97 V/m; Power Drift = 0.00 dB  
 Peak SAR (extrapolated) = 0.717 W/kg  
**SAR(1 g) = 0.489 W/kg; SAR(10 g) = 0.320 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 0.575 W/kg

**System validation below 2GHz/System verification/Z Scan (1x1x17):**

Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$







**SGS North America  
SAR Laboratory  
Date/Time: 8/10/2020 9:44:03 AM**

**DUT: Dipole 835 MHz D835V2**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 835 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.8, 5.8, 5.8) @ 835 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.926 \text{ S/m}$ ;  $\epsilon_r = 41.789$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**System validation below 2GHz/System verification/Dipole Area Scan 2 (31x131x1):**

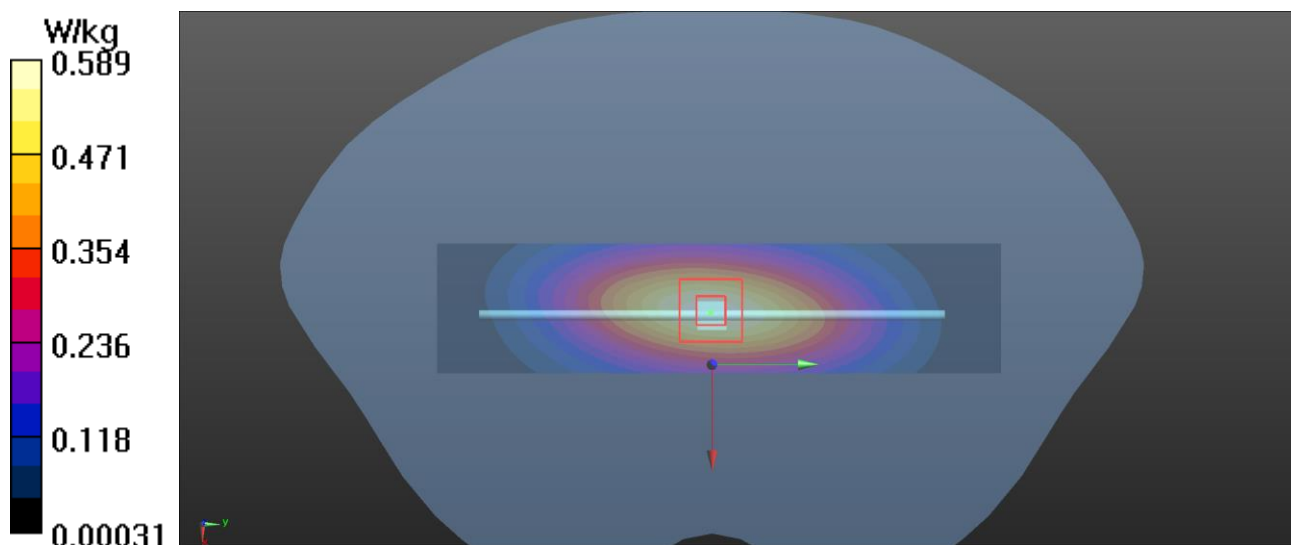
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Reference Value = 26.12 V/m; Power Drift = 0.03 dB  
 Maximum value of SAR (interpolated) = 0.569 W/kg

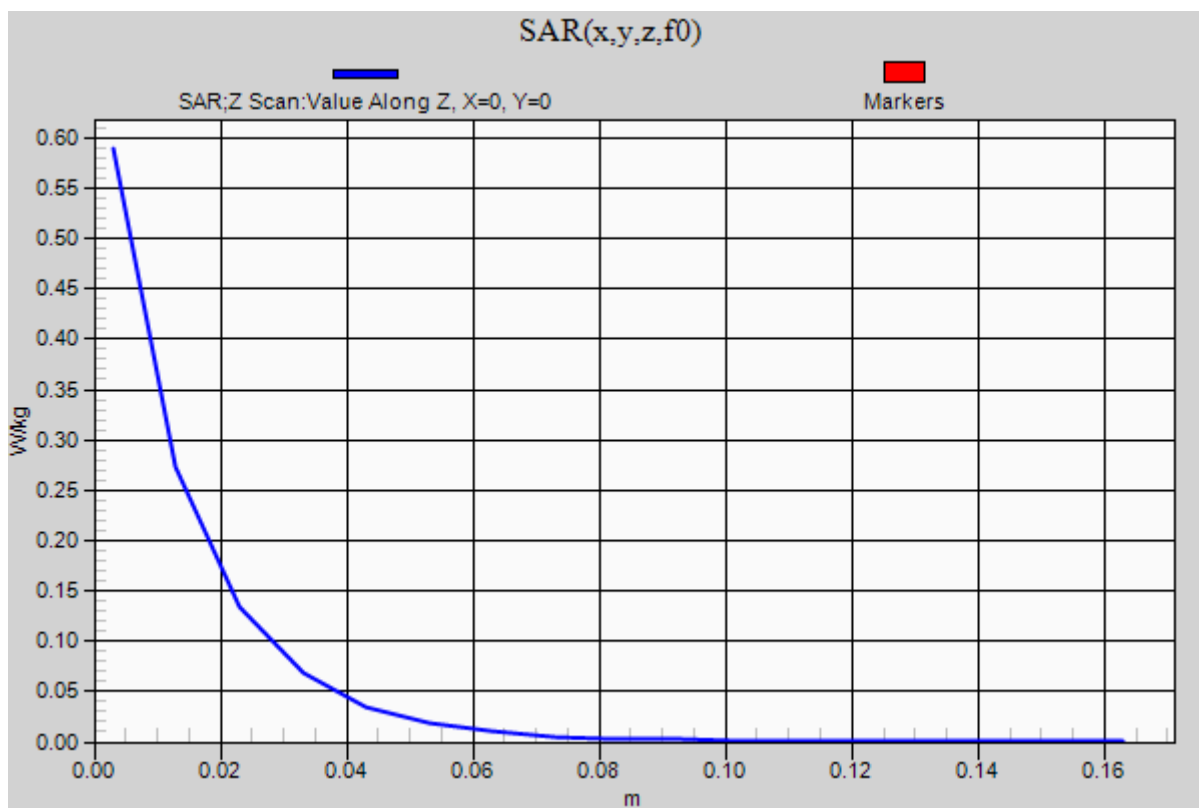
**System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 26.12 V/m; Power Drift = 0.03 dB  
 Peak SAR (extrapolated) = 0.738 W/kg  
**SAR(1 g) = 0.503 W/kg; SAR(10 g) = 0.330 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 0.592 W/kg

**System validation below 2GHz/System verification/Z Scan (1x1x17):**

Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$





**SGS North America  
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Date/Time: 8/11/2020 9:04:33 AM**

**DUT: Dipole 1900 MHz D1900V2**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 1900 MHz;
- Probe: ES3DV3 - SN3272; ConvF(4.98, 4.98, 4.98) @ 1900 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.458$  S/m;  $\epsilon_r = 39.42$ ;  $\rho = 1000$  kg/m<sup>3</sup>; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**System validation below 2GHz/System verification/Dipole Area Scan 2 (31x131x1):**

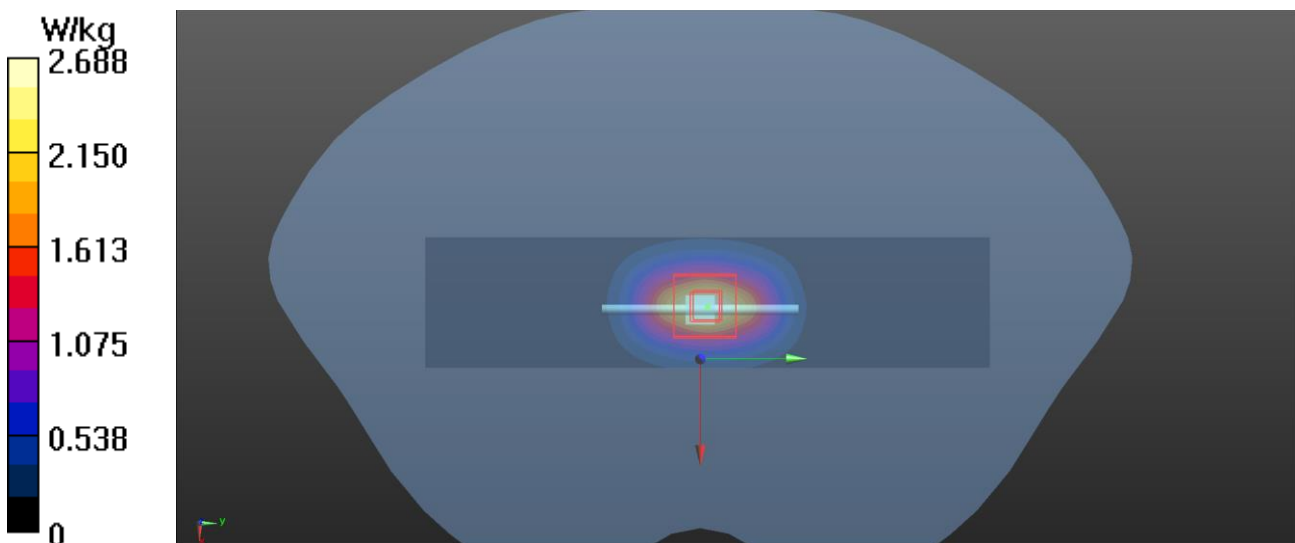
Interpolated grid: dx=1.500 mm, dy=1.500 mm  
Reference Value = 44.27 V/m; Power Drift = 0.03 dB  
Maximum value of SAR (interpolated) = 2.70 W/kg

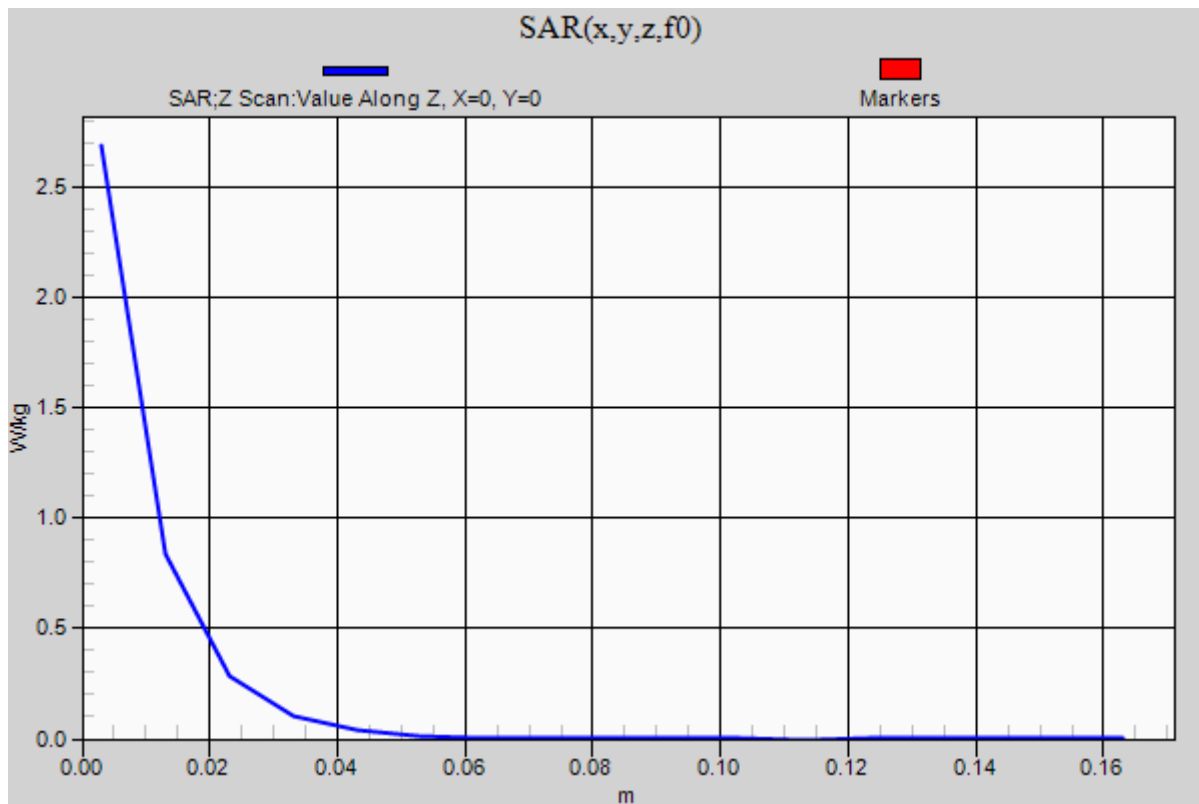
**System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0:**

Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm  
Reference Value = 44.27 V/m; Power Drift = 0.03 dB  
Peak SAR (extrapolated) = 3.83 W/kg  
**SAR(1 g) = 2.04 W/kg; SAR(10 g) = 1.06 W/kg** (SAR corrected for target medium)  
Maximum value of SAR (measured) = 2.68 W/kg

**System validation below 2GHz/System verification/Z Scan (1x1x17):**

Measurement grid: dx=20mm, dy=20mm, dz=10mm





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**DUT: Dipole 750 MHz D750V3**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 750 MHz;
- Probe: ES3DV3 - SN3272; ConvF(6.18, 6.18, 6.18) @ 750 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 750 \text{ MHz}$ ;  $\sigma = 0.931 \text{ S/m}$ ;  $\epsilon_r = 41.812$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**System validation below 2GHz/System verification/Dipole Area Scan 2 (31x131x1):**

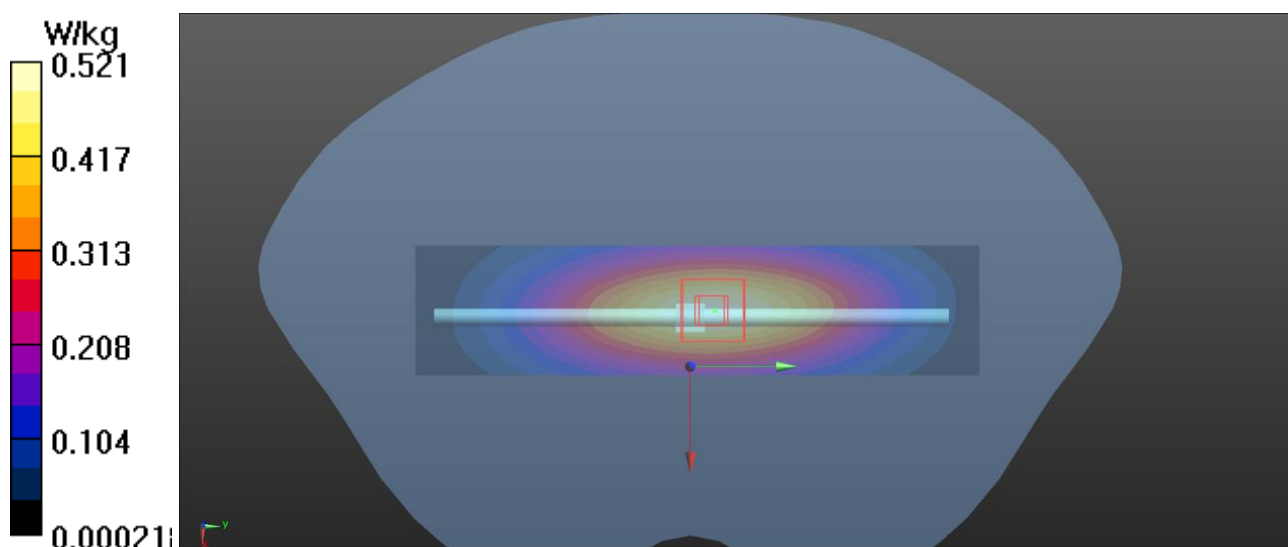
Interpolated grid:  $dx=1.500 \text{ mm}$ ,  $dy=1.500 \text{ mm}$   
 Reference Value = 24.40 V/m; Power Drift = 0.00 dB  
 Maximum value of SAR (interpolated) = 0.502 W/kg

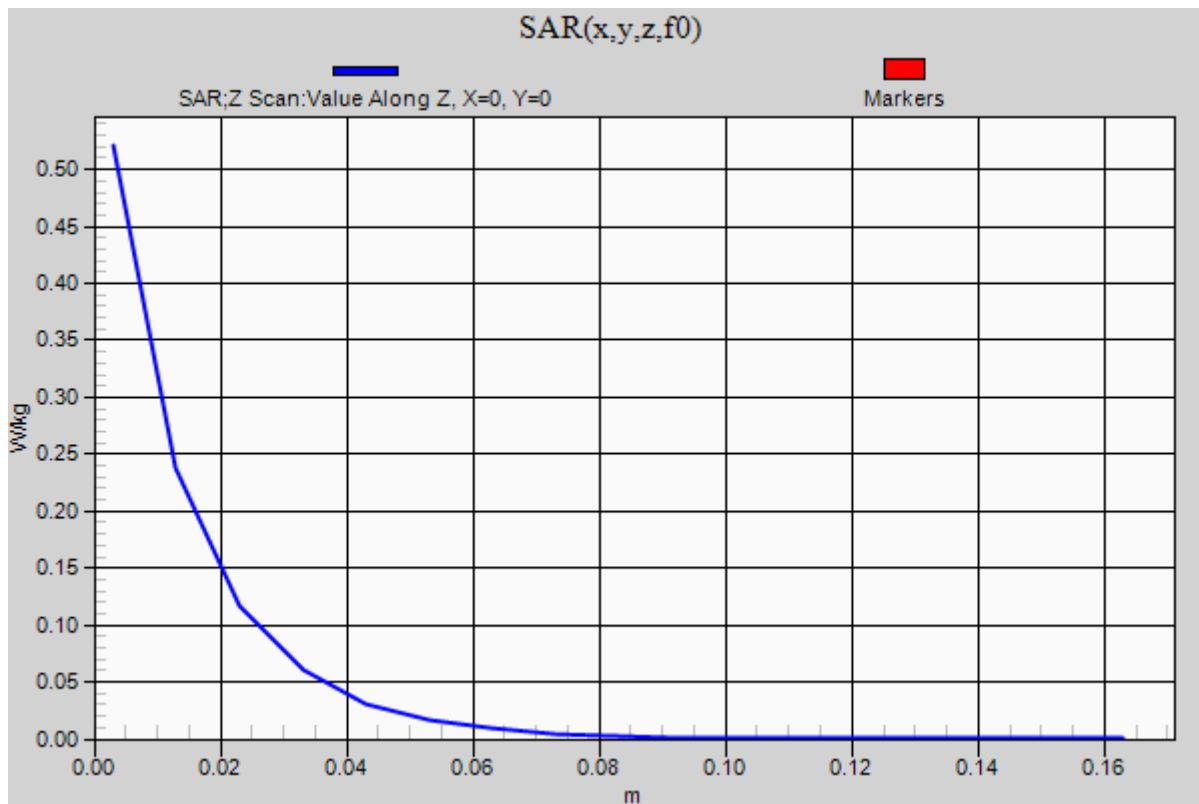
**System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$   
 Reference Value = 24.40 V/m; Power Drift = 0.00 dB  
 Peak SAR (extrapolated) = 0.657 W/kg  
**SAR(1 g) = 0.427 W/kg; SAR(10 g) = 0.282 W/kg** (SAR corrected for target medium)  
 Maximum value of SAR (measured) = 0.518 W/kg

**System validation below 2GHz/System verification/Z Scan (1x1x17):**

Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$





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**DUT: Dipole 835 MHz D835V2**

DASY5 Configuration:

- Communication System: UID 0, CW (0); Frequency: 835 MHz;
- Probe: ES3DV3 - SN3272; ConvF(5.8, 5.8, 5.8) @ 835 MHz; Calibrated: 2/19/2020
- Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.939 \text{ S/m}$ ;  $\epsilon_r = 41.242$ ;  $\rho = 1000 \text{ kg/m}^3$ ; Phantom: SAM with CRP v5.0; Phantom section: Flat Section
- Electronics: DAE4 Sn1287; Calibrated: 2/18/2020

**System validation below 2GHz/System verification/Dipole Area Scan 2 (31x131x1):**

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

Reference Value =  $26.19 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

Maximum value of SAR (interpolated) =  $0.584 \text{ W/kg}$

**System validation below 2GHz/System verification/0 degree Zoom Scan (5x5x7)/Cube 0:**

Measurement grid:  $dx=7.5\text{mm}$ ,  $dy=7.5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value =  $26.19 \text{ V/m}$ ; Power Drift =  $-0.01 \text{ dB}$

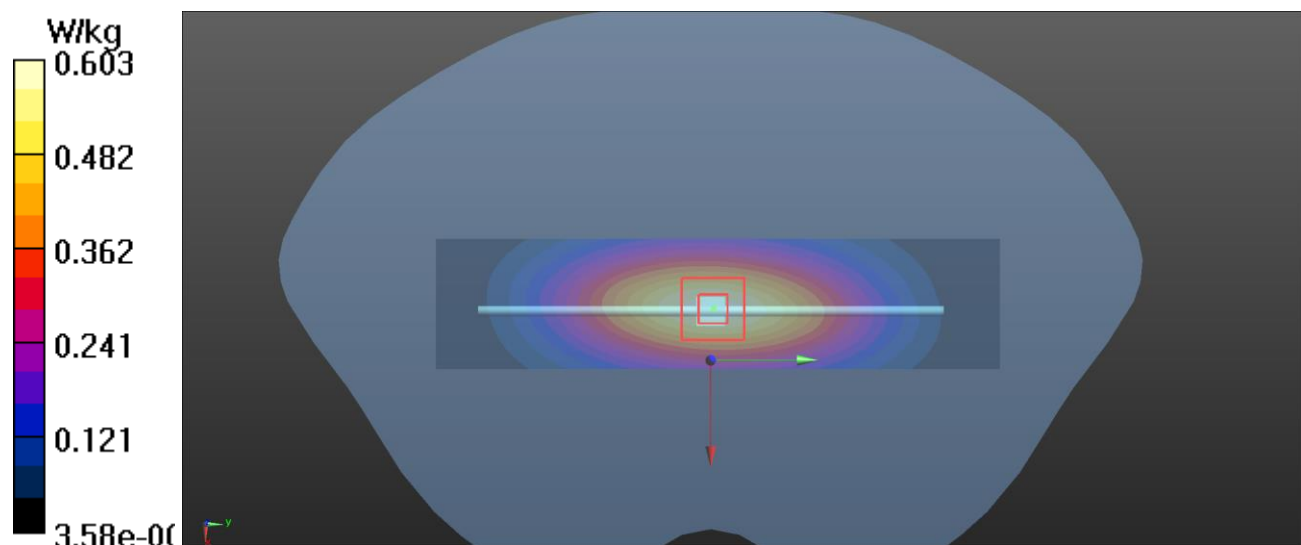
Peak SAR (extrapolated) =  $0.754 \text{ W/kg}$

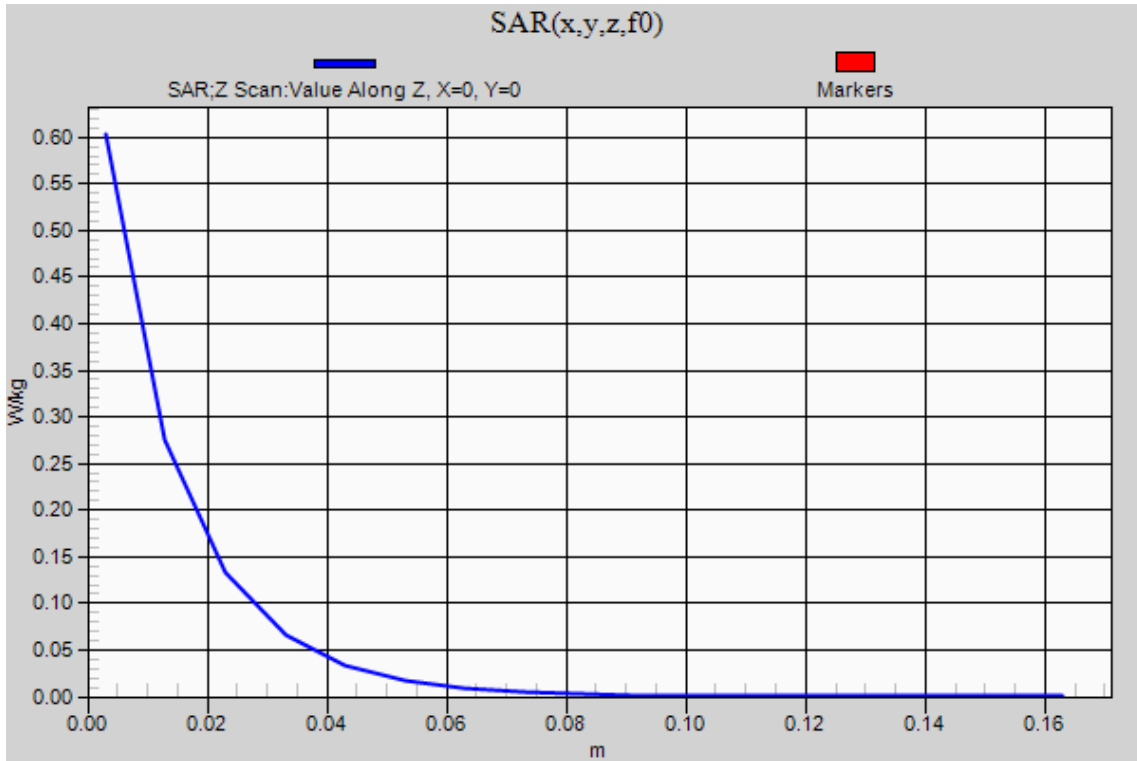
**SAR(1 g) =  $0.503 \text{ W/kg}$ ; SAR(10 g) =  $0.329 \text{ W/kg}$**  (SAR corrected for target medium)

Maximum value of SAR (measured) =  $0.603 \text{ W/kg}$

**System validation below 2GHz/System verification/Z Scan (1x1x17):**

Measurement grid:  $dx=20\text{mm}$ ,  $dy=20\text{mm}$ ,  $dz=10\text{mm}$







## REVISION HISTORY

Revision Level	Description of changes	Revision Date
DRAFT	Customer Review	02 Sept. 20
0	Initial release	10 Sept. 20
1	Updated EUT description	16 Sept. 20