

## 20190122\_SystemPerformanceCheck-D5GHzV2 SN 1138

Frequency: 5250 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 4.475$  S/m;  $\epsilon_r = 35.54$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1540; Calibrated: 2/23/2018
- Probe: EX3DV4 - SN3885; ConvF(4.85, 4.85, 4.85); Calibrated: 9/18/2018, ConvF(4.85, 4.85, 4.85); Calibrated: 9/18/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: SAM;

**Head/5.25 GHz, Pin=100mW/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 20.3 W/kg

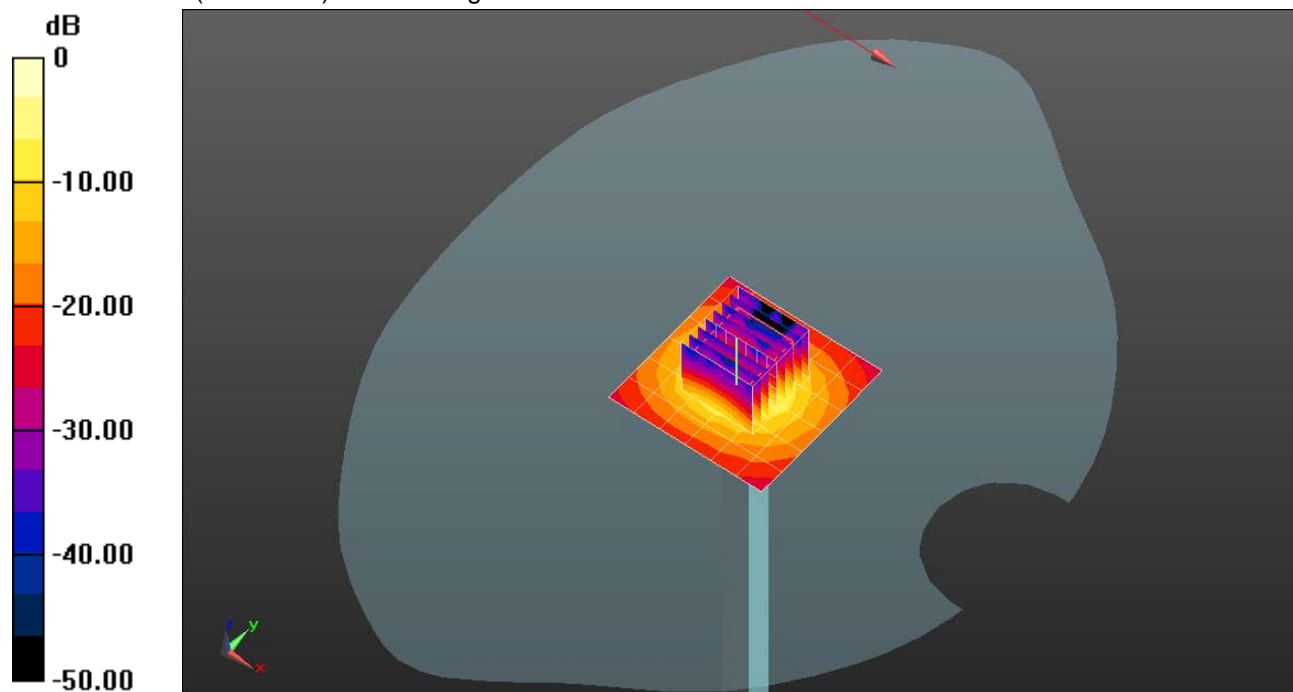
**Head/5.25 GHz, Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 59.51 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 32.9 W/kg

**SAR(1 g) = 7.99 W/kg; SAR(10 g) = 2.28 W/kg**

Maximum value of SAR (measured) = 19.3 W/kg

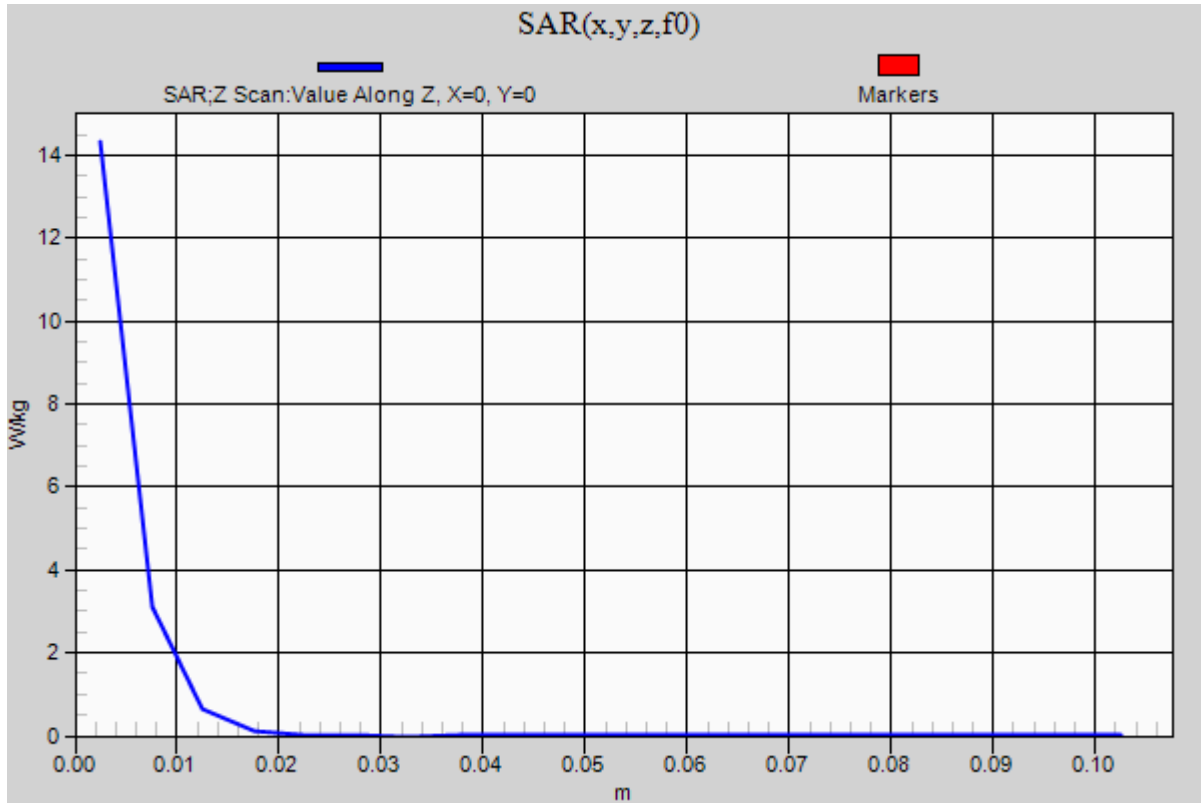


0 dB = 19.3 W/kg = 12.86 dBW/kg

### 20190122\_SystemPerformanceCheck-D5GHzV2 SN 1138

Frequency: 5250 MHz; Duty Cycle: 1:1

**Head/5.25 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 14.3 W/kg



### 20190123\_SystemPerformanceCheck-D2450V2 SN 899

Frequency: 2450 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.997$  S/m;  $\epsilon_r = 50.228$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1377; Calibrated: 9/14/2018
- Probe: EX3DV4 - SN3772; ConvF(6.97, 6.97, 6.97); Calibrated: 2/13/2018, ConvF(6.97, 6.97, 6.97); Calibrated: 2/13/2018;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI V5.0 Slot 6/7; Type: QD OVA 001 BB; Serial: 1118

**Body/Pin=100 mW/Area Scan (8x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 6.96 W/kg

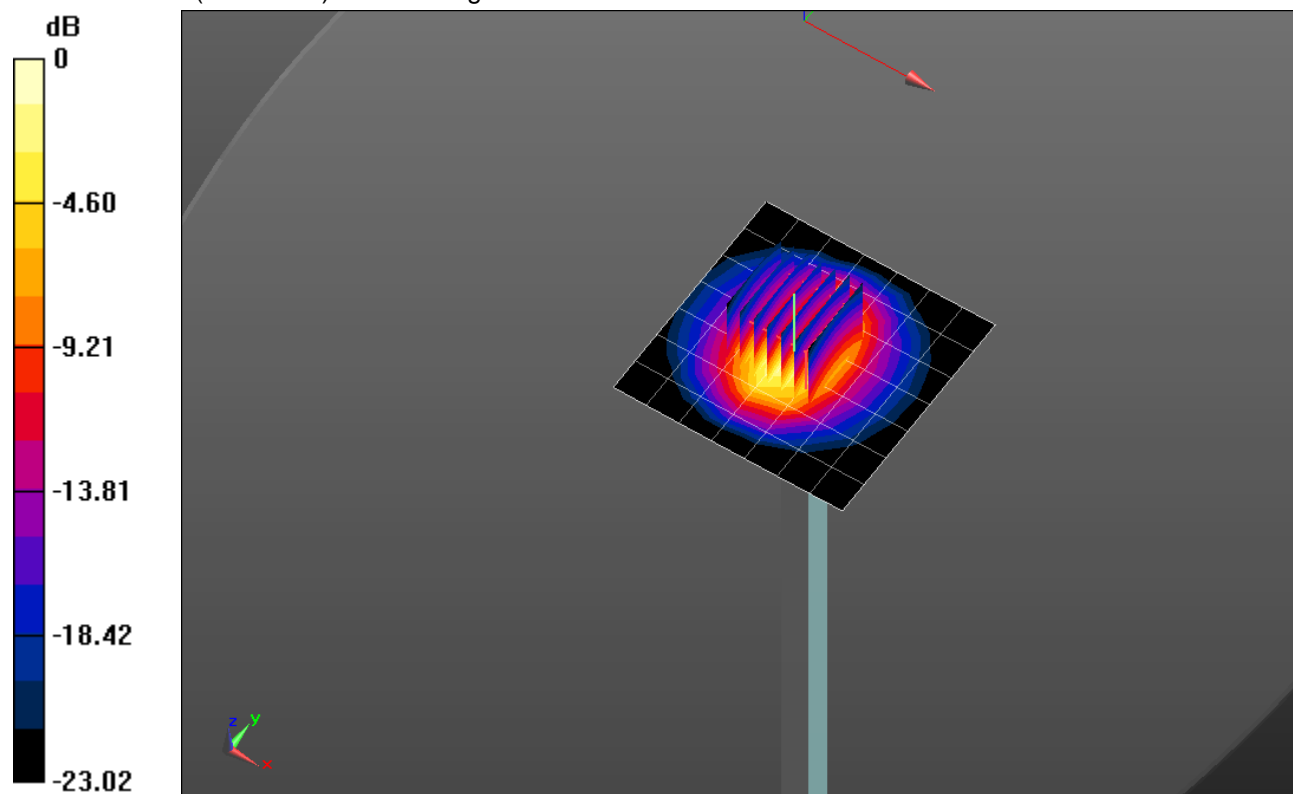
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 61.17 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 11.8 W/kg

**SAR(1 g) = 5.55 W/kg; SAR(10 g) = 2.53 W/kg**

Maximum value of SAR (measured) = 7.95 W/kg

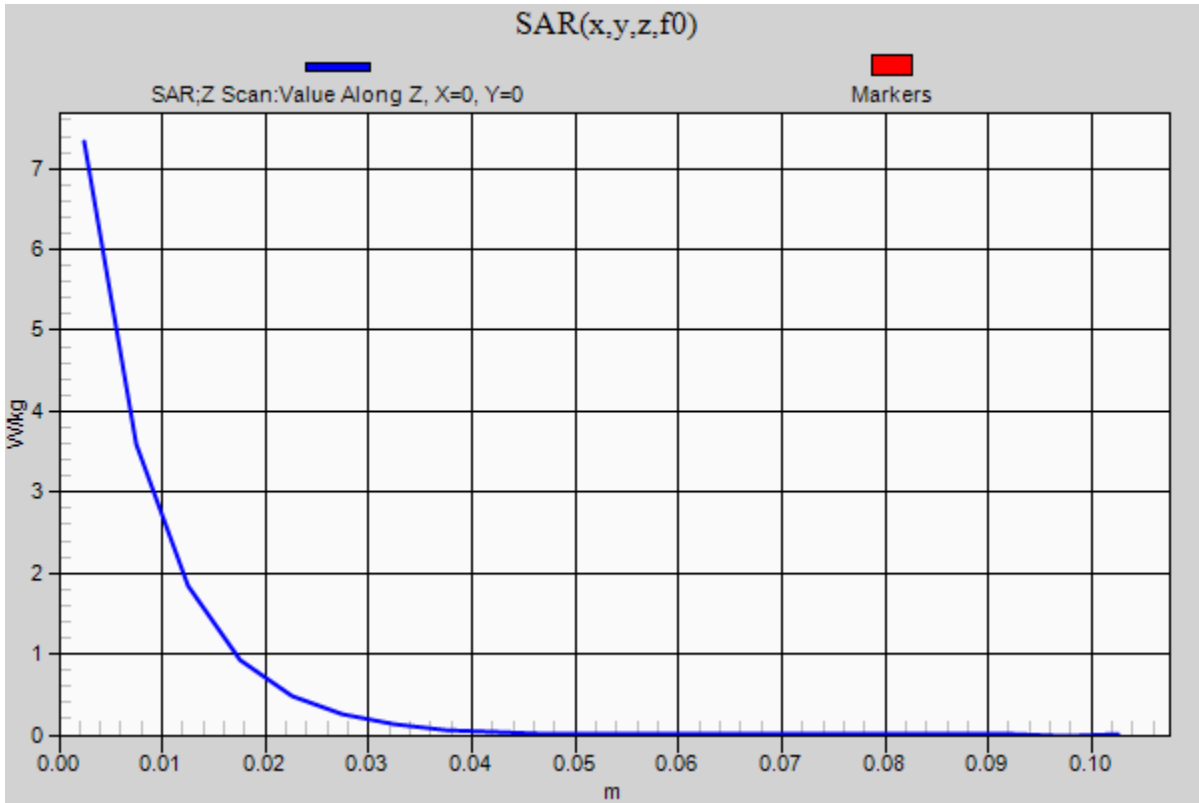


0 dB = 7.95 W/kg = 9.00 dBW/kg

### 20190123\_SystemPerformanceCheck-D2450V2 SN 899

Frequency: 2450 MHz; Duty Cycle: 1:1

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 7.33 W/kg



## 20190123\_SystemPerformanceCheck-D2600V2 SN 1006

Frequency: 2600 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 2600$  MHz;  $\sigma = 2.207$  S/m;  $\epsilon_r = 52.534$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1352; Calibrated: 11/6/2018
- Probe: EX3DV4 - SN3773; ConvF(6.74, 6.74, 6.74); Calibrated: 4/23/2018;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI v5.0 (A); Type: QDOVA001BB; Serial: 1120

**Body/Pin=100 mW/Area Scan (8x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 6.63 W/kg

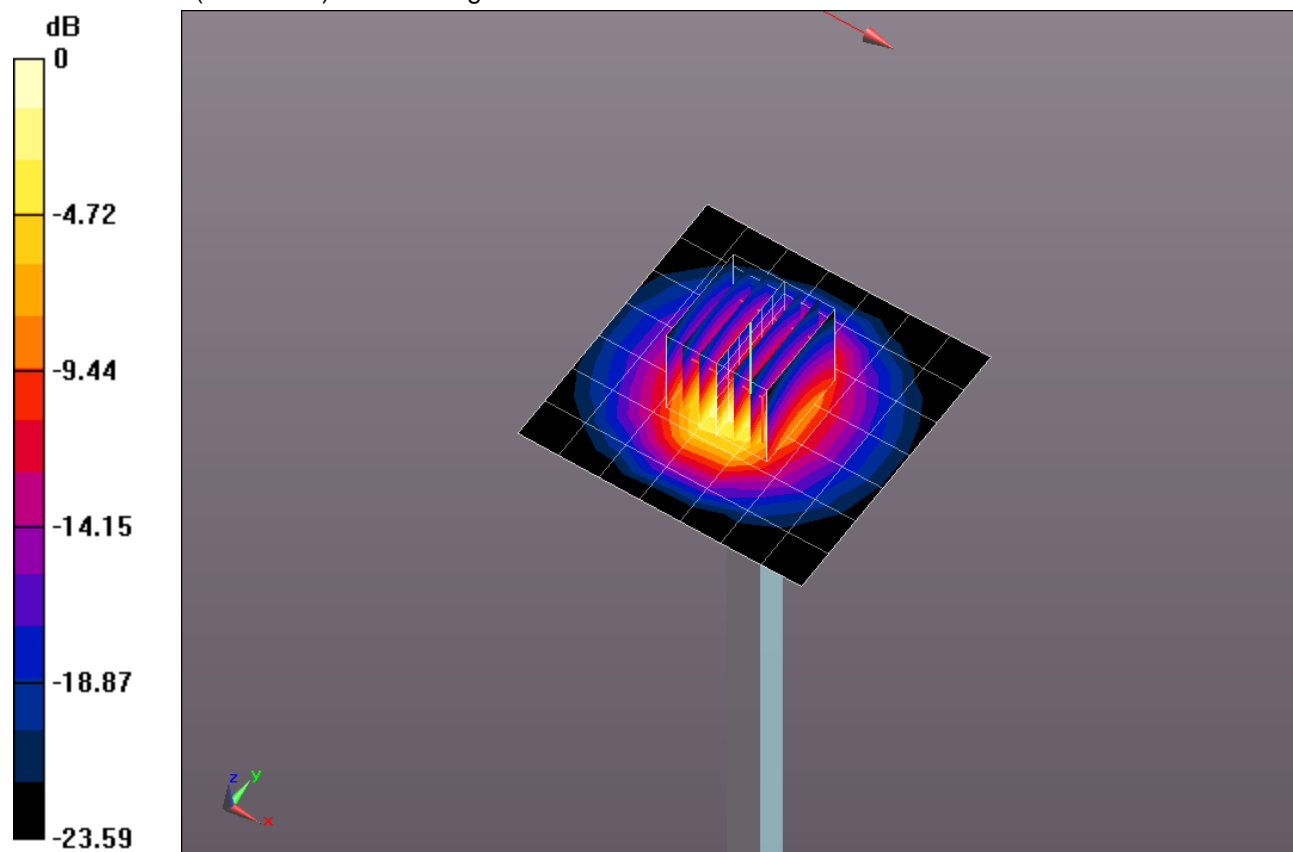
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 64.19 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 13.2 W/kg

**SAR(1 g) = 6.08 W/kg; SAR(10 g) = 2.67 W/kg**

Maximum value of SAR (measured) = 8.89 W/kg

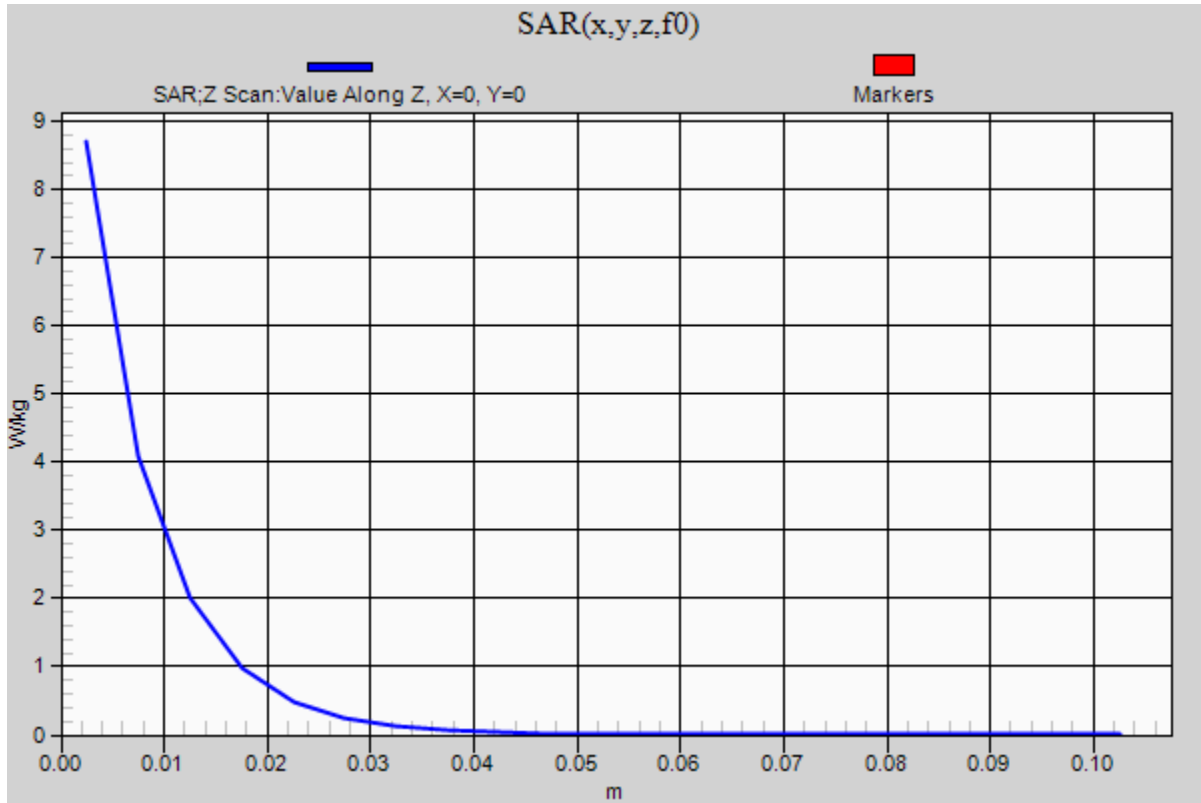


0 dB = 8.89 W/kg = 9.49 dBW/kg

### 20190123\_SystemPerformanceCheck-D2600V2 SN 1006

Frequency: 2600 MHz; Duty Cycle: 1:1

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 8.70 W/kg



## 20190116\_SystemPerformanceCheck-D5GHzV2 SN 1138

Frequency: 5750 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 5750$  MHz;  $\sigma = 5.134$  S/m;  $\epsilon_r = 36.827$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1548; Calibrated: 5/3/2018
- Probe: EX3DV4 - SN3990; ConvF(5.18, 5.18, 5.18); Calibrated: 8/17/2018, ConvF(5.18, 5.18, 5.18); Calibrated: 8/17/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (20deg probe tilt); Type: QD000P40CD; Serial: 1629

**Head/5.75 GHz, Pin=100mW/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.3 W/kg

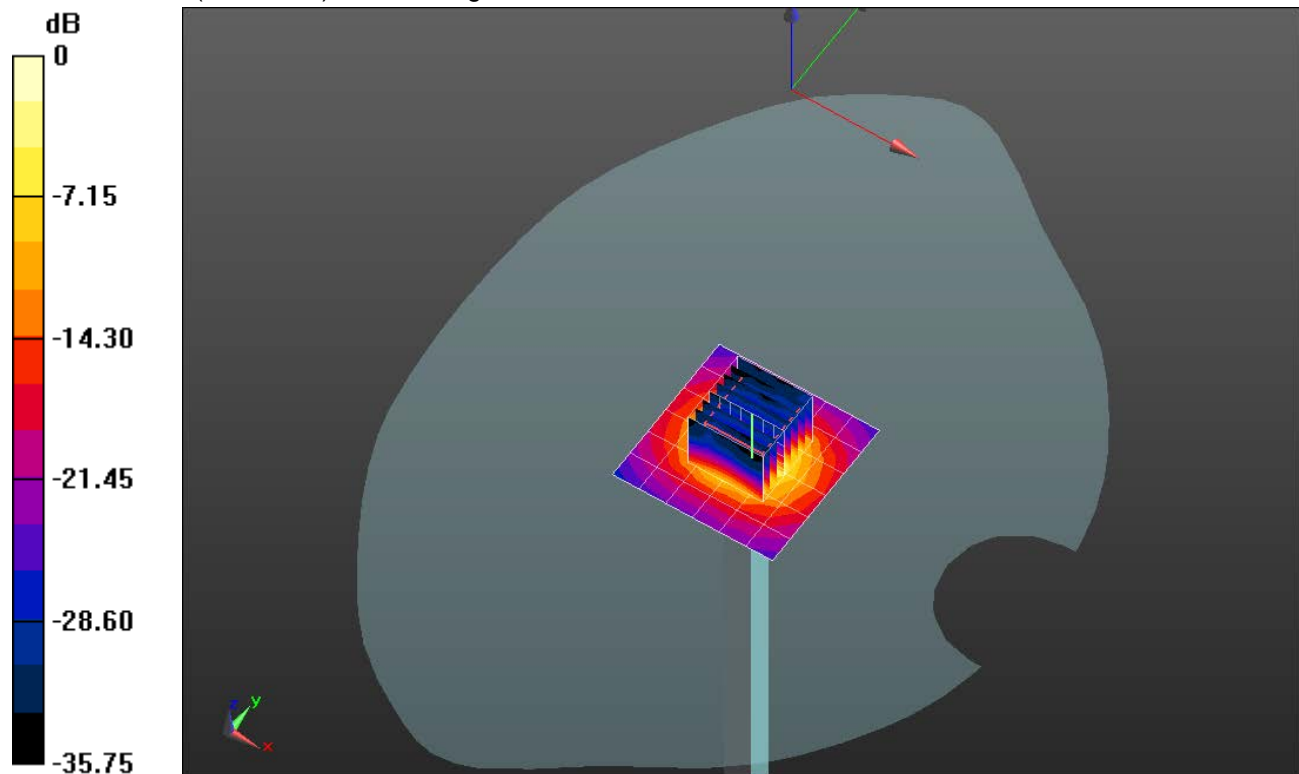
**Head/5.75 GHz, Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 52.71 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 36.1 W/kg

**SAR(1 g) = 7.61 W/kg; SAR(10 g) = 2.18 W/kg**

Maximum value of SAR (measured) = 18.8 W/kg

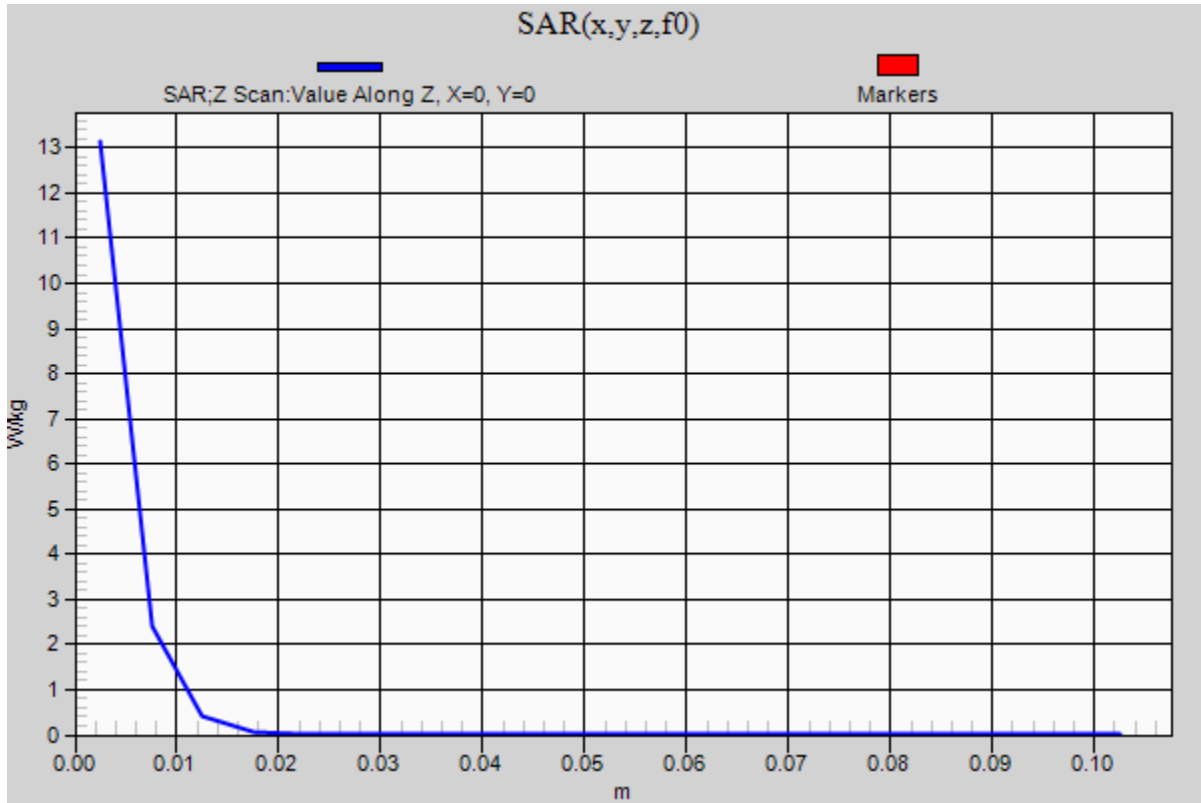


0 dB = 18.8 W/kg = 12.74 dBW/kg

### 20190116\_SystemPerformanceCheck-D5GHzV2 SN 1138

Frequency: 5750 MHz; Duty Cycle: 1:1

**Head/5.75 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 13.1 W/kg





## 20190116\_SystemPerformanceCheck-D5GHzV2 SN 1138

Frequency: 5250 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 5.339$  S/m;  $\epsilon_r = 48.63$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1548; Calibrated: 5/3/2018
- Probe: EX3DV4 - SN3990; ConvF(4.95, 4.95, 4.95); Calibrated: 8/17/2018, ConvF(4.95, 4.95, 4.95); Calibrated: 8/17/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI V5.0 Slot 1/2; Type: QD OVA 002 Ax; Serial: 1119

**Body/5.25 GHz, Pin=100mW/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.4 W/kg

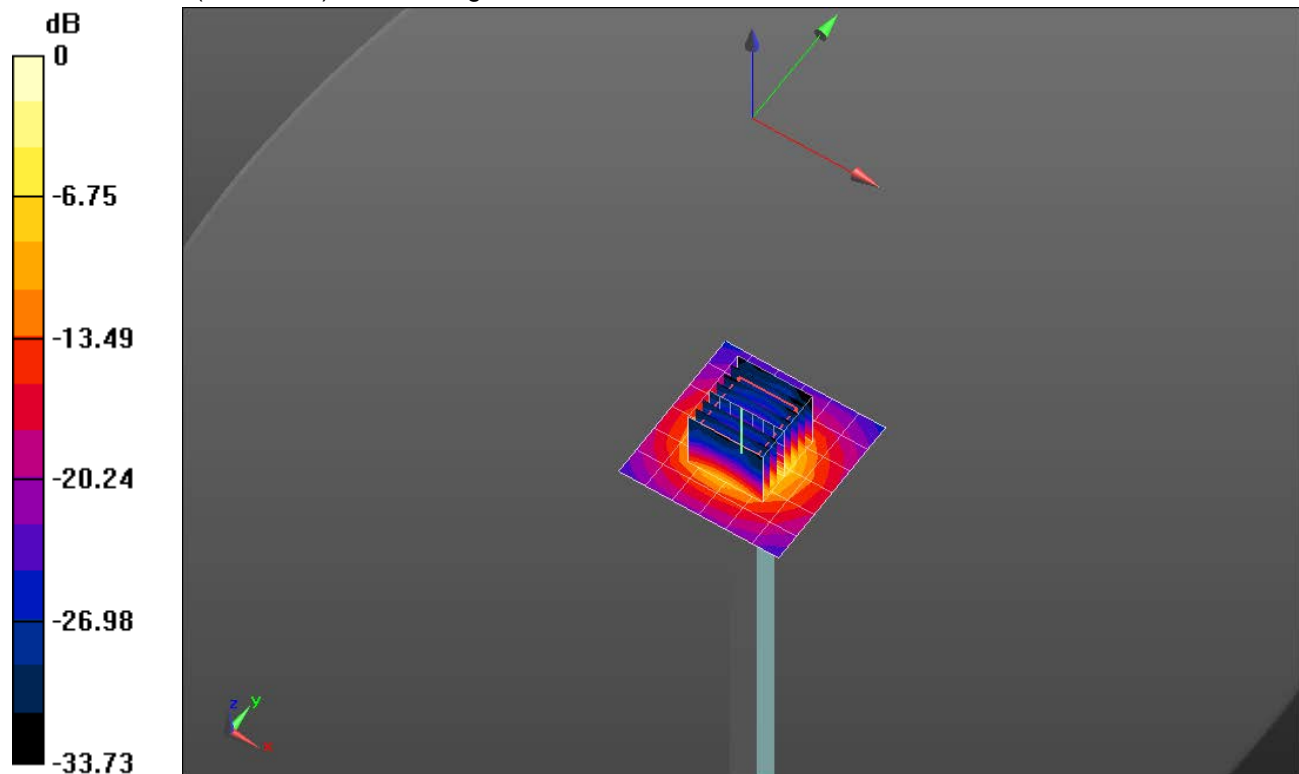
**Body/5.25 GHz, Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 54.68 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 31.9 W/kg

**SAR(1 g) = 8.02 W/kg; SAR(10 g) = 2.28 W/kg**

Maximum value of SAR (measured) = 18.8 W/kg

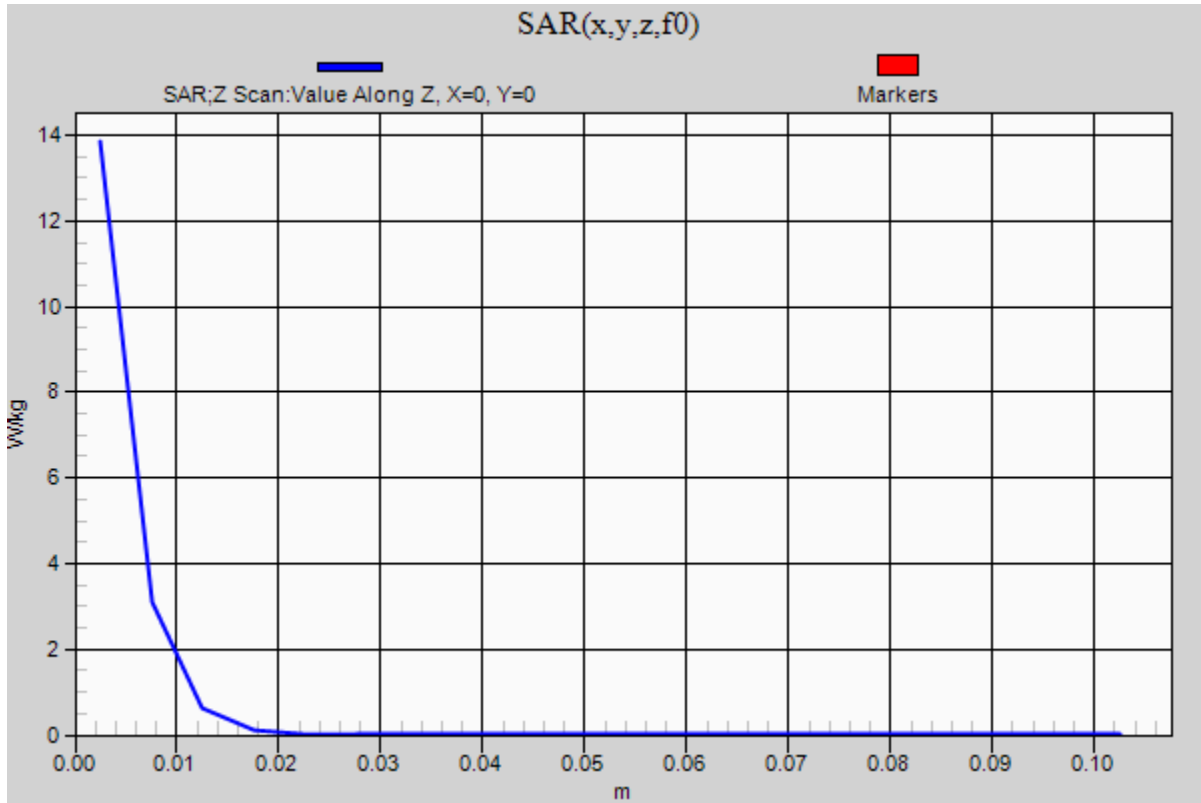


0 dB = 18.8 W/kg = 12.74 dBW/kg

### 20190116\_SystemPerformanceCheck-D5GHzV2 SN 1138

Frequency: 5250 MHz; Duty Cycle: 1:1

**Body/5.25 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 13.8 W/kg



### 20190128\_SystemPerformanceCheck-D5GHzV2 SN 1003

Frequency: 5600 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 5600$  MHz;  $\sigma = 5.888$  S/m;  $\epsilon_r = 47.233$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1548; Calibrated: 5/3/2018
- Probe: EX3DV4 - SN3990; ConvF(4.31, 4.31, 4.31); Calibrated: 8/17/2018, ConvF(4.31, 4.31, 4.31); Calibrated: 8/17/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI V5.0 Slot 1/2; Type: QD OVA 002 Ax; Serial: 1119

**Body/5.6 GHz, Pin=100mW/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 21.4 W/kg

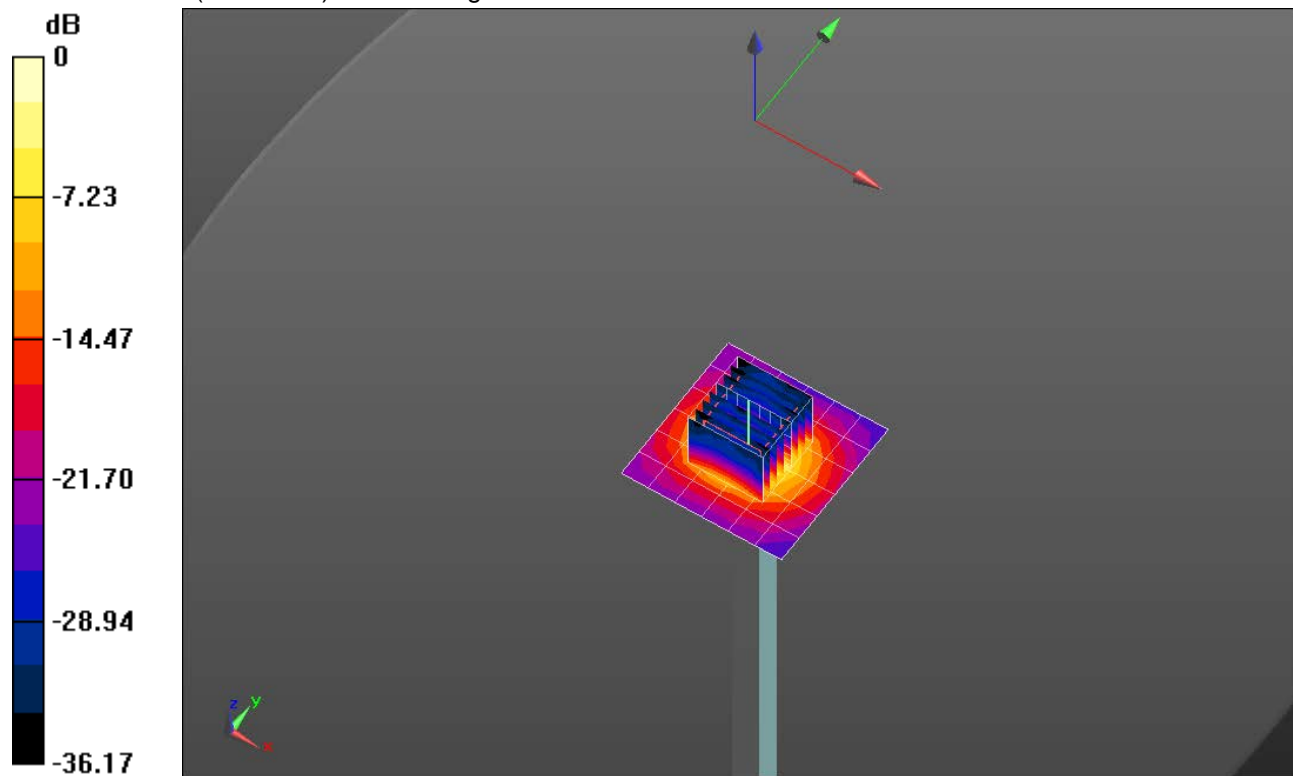
**Body/5.6 GHz, Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 55.78 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 36.3 W/kg

**SAR(1 g) = 8.17 W/kg; SAR(10 g) = 2.3 W/kg**

Maximum value of SAR (measured) = 19.8 W/kg

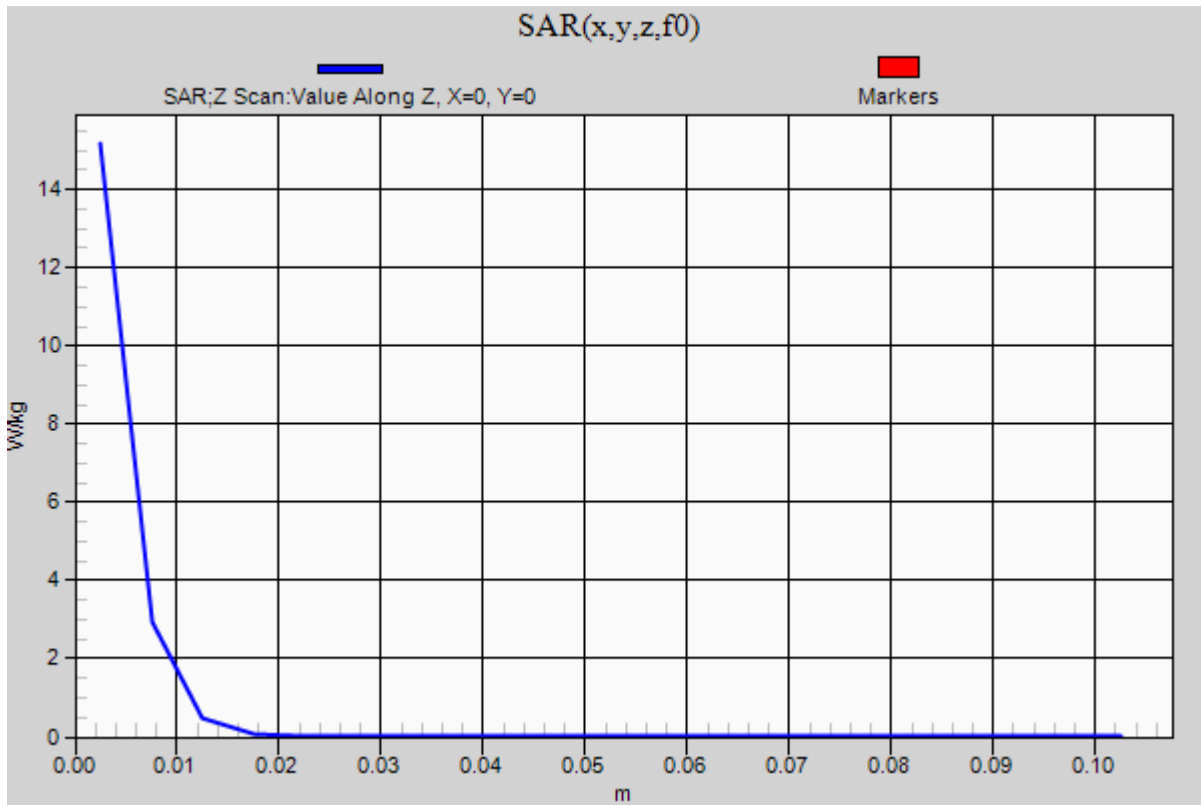


0 dB = 19.8 W/kg = 12.97 dBW/kg

### 20190128\_SystemPerformanceCheck-D5GHzV2 SN 1003

Frequency: 5600 MHz; Duty Cycle: 1:1

**Body/5.6 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 15.2 W/kg



## 20190114\_SystemPerformanceCheck-D835V2 SN 4d142

Frequency: 835 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.956 \text{ S/m}$ ;  $\epsilon_r = 53.662$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1359; Calibrated: 2/9/2018
- Probe: EX3DV4 - SN7463; ConvF(9.22, 9.22, 9.22); Calibrated: 7/20/2018, ConvF(9.22, 9.22, 9.22); Calibrated: 7/20/2018;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: ELI V5.0 Slot 1/2; Type: QD OVA 002 Ax; Serial: 1119

**Body/Pin=100 mW/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 1.30 W/kg

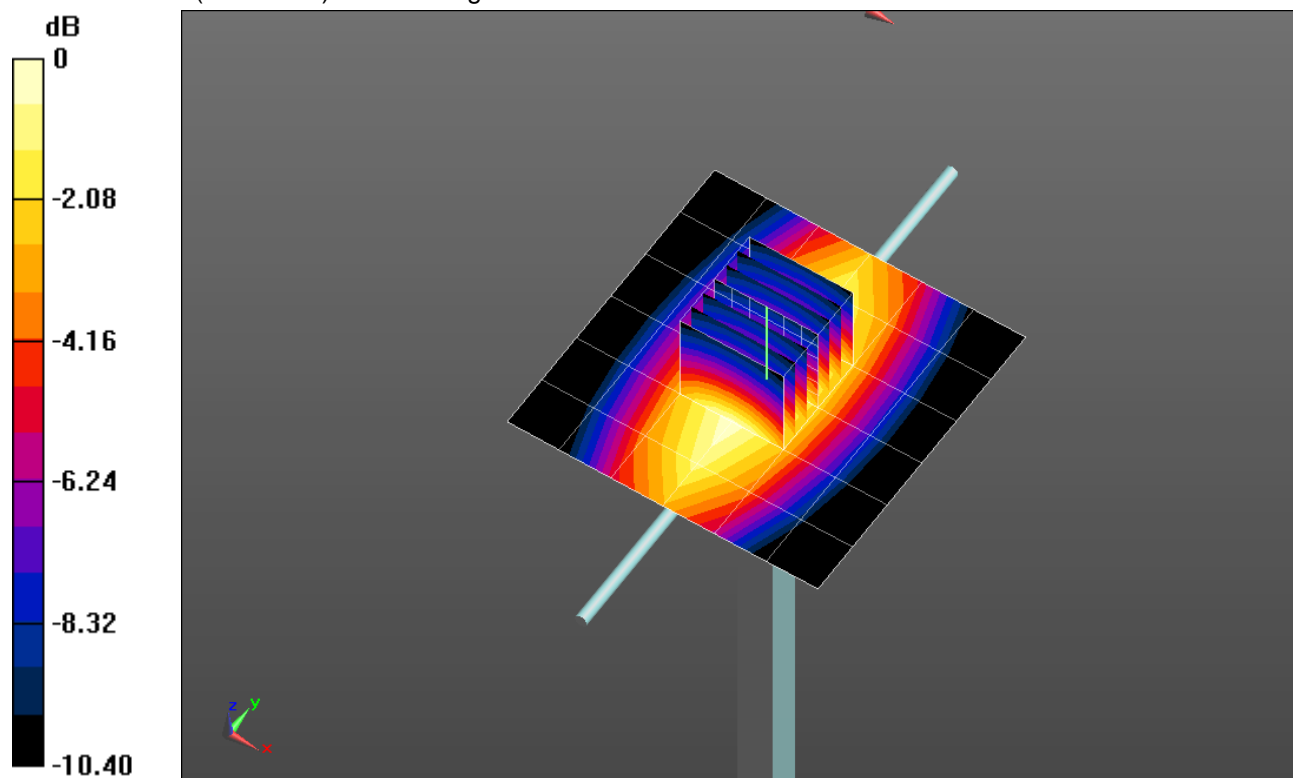
**Body/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 38.89 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 1.52 W/kg

**SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.663 W/kg**

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

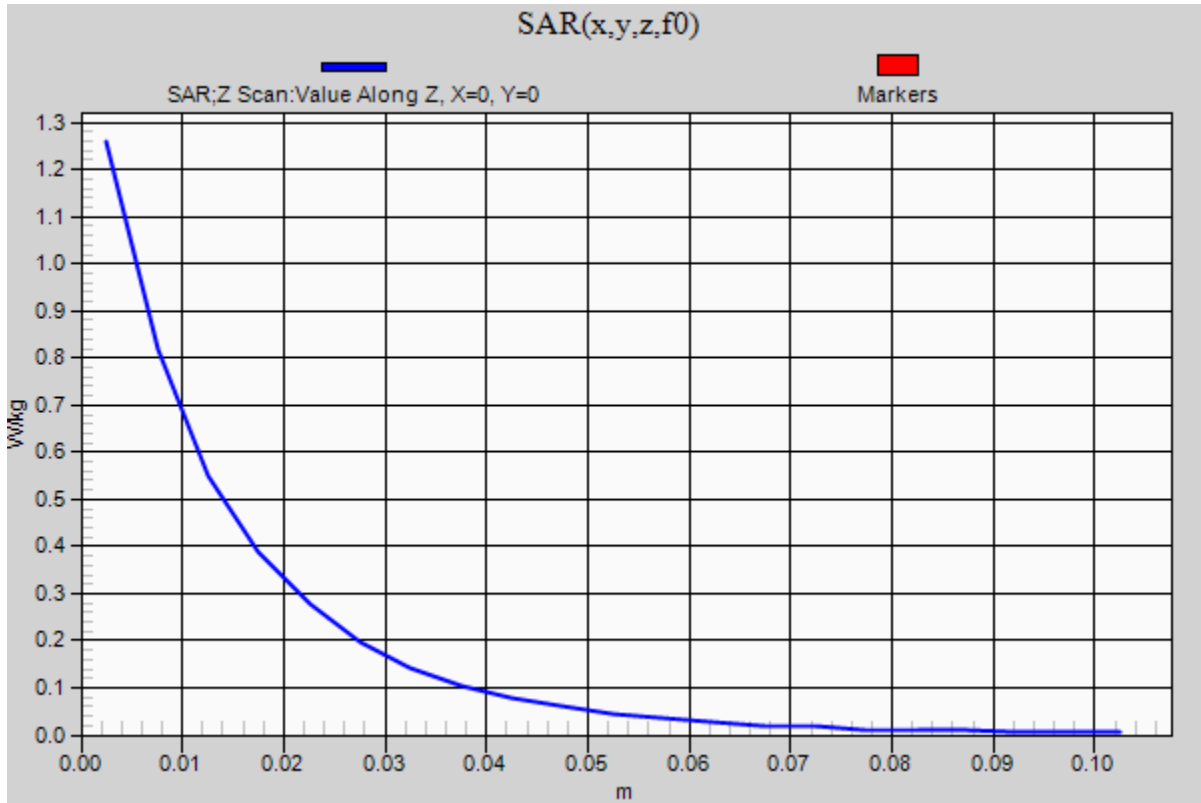


0 dB = 1.23 W/kg = 0.90 dBW/kg

### 20190114\_SystemPerformanceCheck-D835V2 SN 4d142

Frequency: 835 MHz; Duty Cycle: 1:1

**Body/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 1.26 W/kg



### 20190129\_SystemPerformanceCheck-D5GHzV2 SN 1003

Frequency: 5750 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 5750 \text{ MHz}$ ;  $\sigma = 6.128 \text{ S/m}$ ;  $\epsilon_r = 46.427$ ;  $\rho = 1000 \text{ kg/m}^3$

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1359; Calibrated: 2/9/2018
- Probe: EX3DV4 - SN7463; ConvF(4.17, 4.17, 4.17); Calibrated: 7/20/2018, ConvF(4.17, 4.17, 4.17); Calibrated: 7/20/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI V5.0 Slot 1/2; Type: QD OVA 002 Ax; Serial: 1119

**Body/5.75 GHz, Pin=100mW/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 19.8 W/kg

**Body/5.75 GHz, Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm,

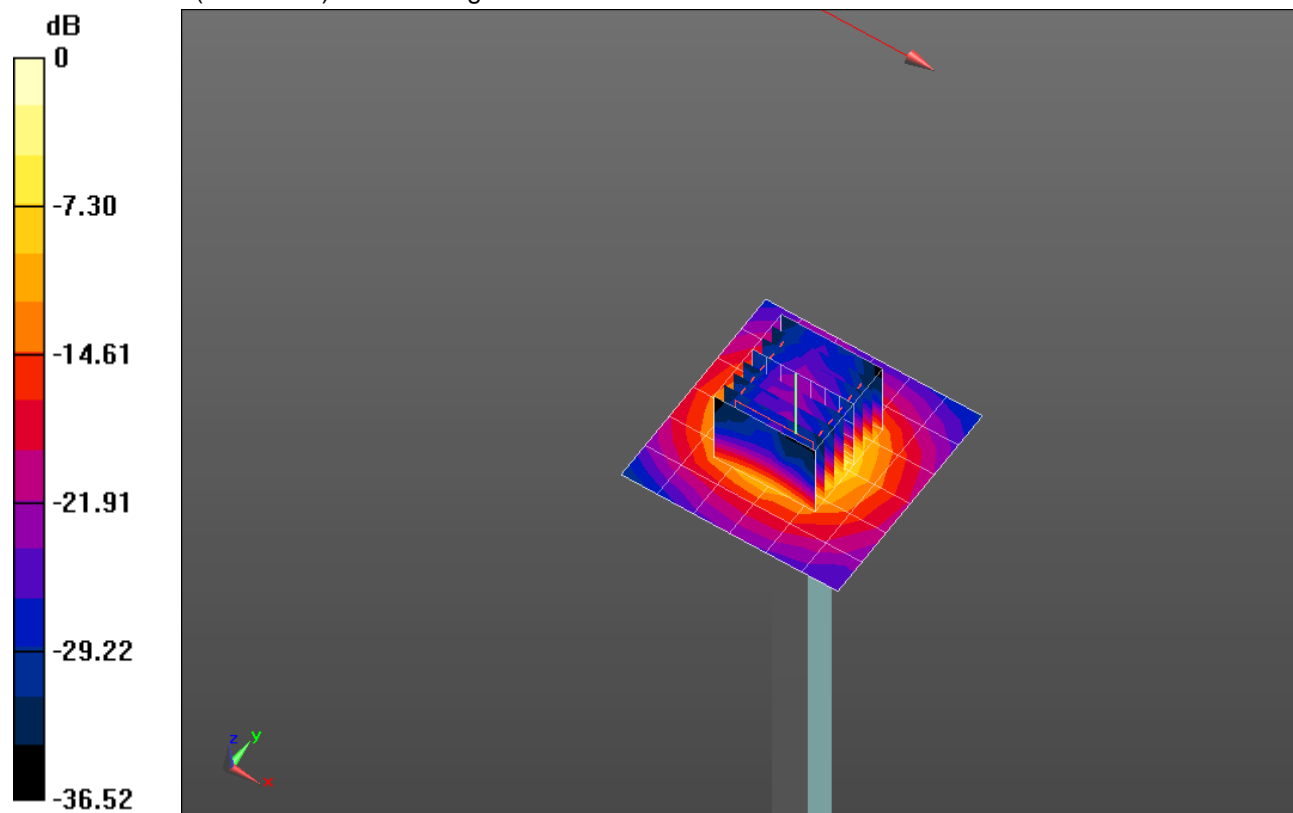
dz=1.4mm

Reference Value = 50.27 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 34.7 W/kg

**SAR(1 g) = 7.67 W/kg; SAR(10 g) = 2.16 W/kg**

Maximum value of SAR (measured) = 19.1 W/kg

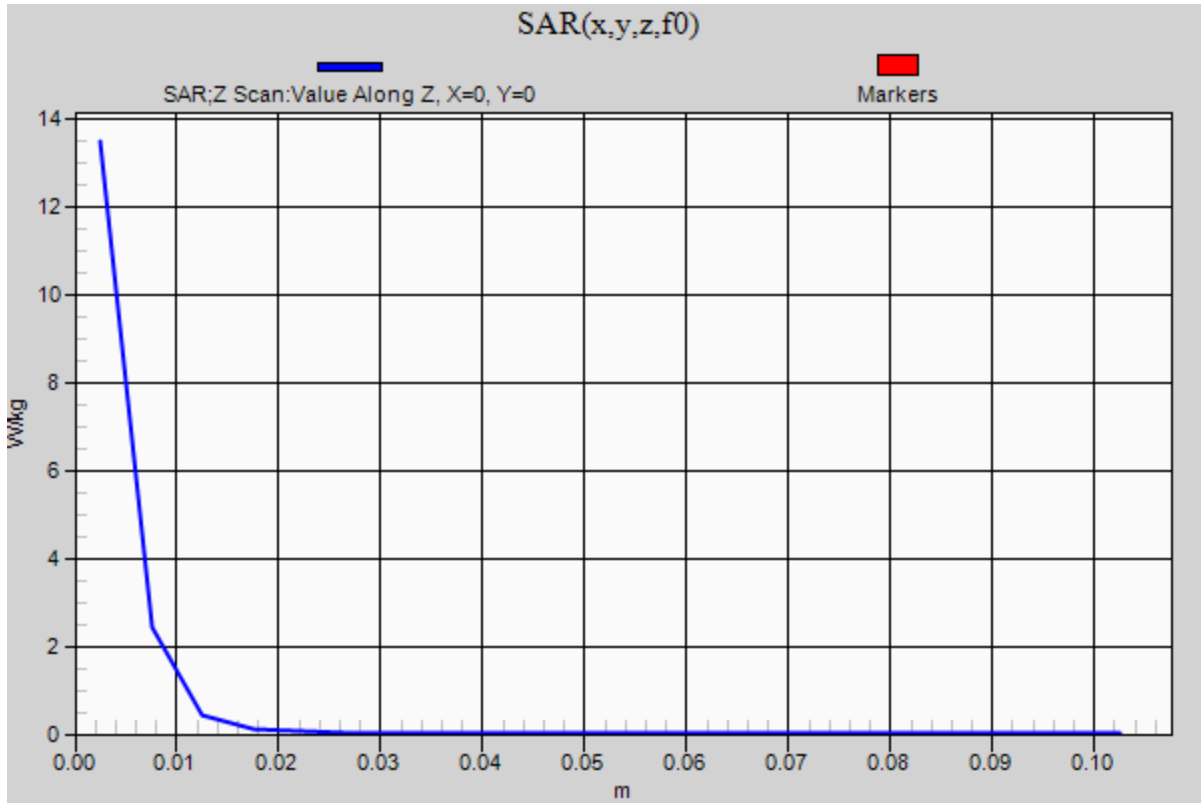


0 dB = 19.1 W/kg = 12.81 dBW/kg

### 20190129\_SystemPerformanceCheck-D5GHzV2 SN 1003

Frequency: 5750 MHz; Duty Cycle: 1:1

**Body/5.75 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 13.5 W/kg





## 20190114\_SystemPerformanceCheck-D1900V2 SN 5d140

Frequency: 1900 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 1900$  MHz;  $\sigma = 1.416$  S/m;  $\epsilon_r = 38.456$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1239; Calibrated: 7/11/2018
- Probe: EX3DV4 - SN7482; ConvF(7.75, 7.75, 7.75); Calibrated: 7/23/2018, ConvF(7.75, 7.75, 7.75); Calibrated: 7/23/2018;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1831

**Head/Pin=100 mW/Area Scan (7x7x1):** Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (measured) = 5.66 W/kg

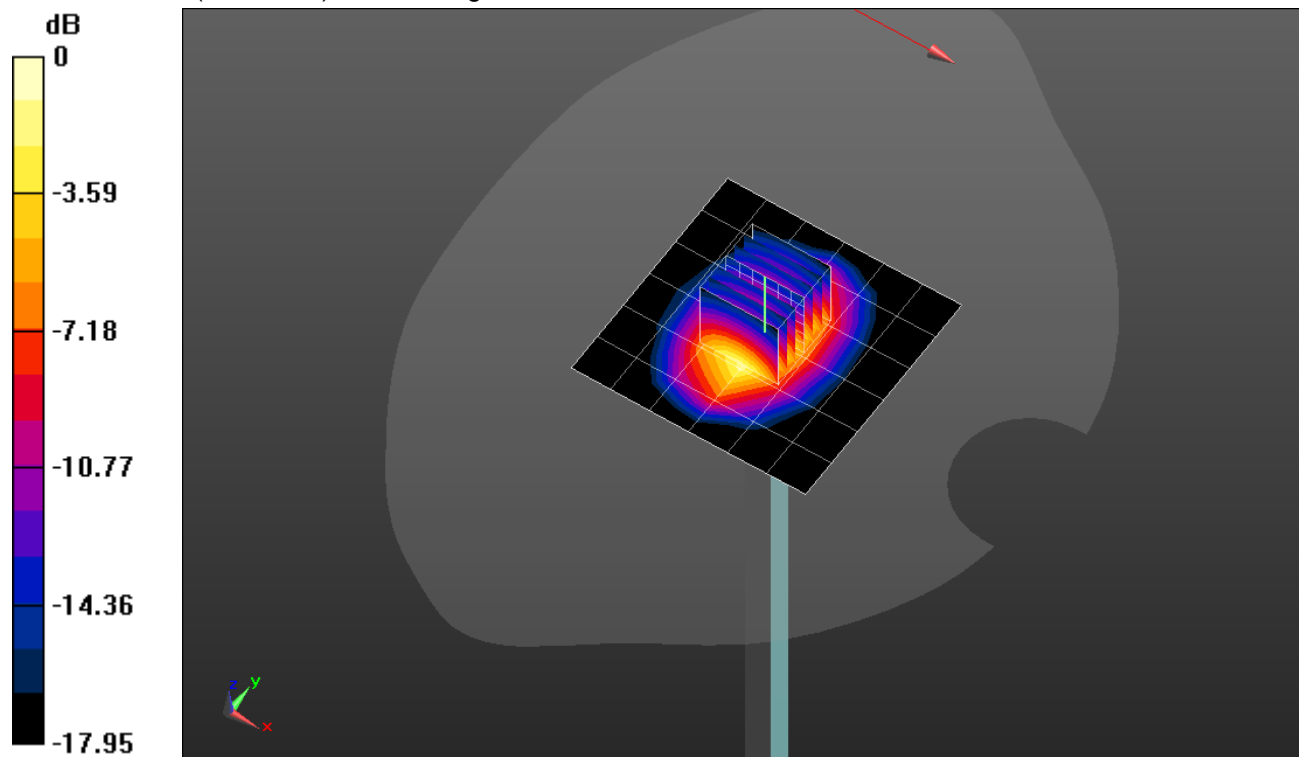
**Head/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 63.74 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 7.95 W/kg

**SAR(1 g) = 4.21 W/kg; SAR(10 g) = 2.16 W/kg**

Maximum value of SAR (measured) = 5.75 W/kg



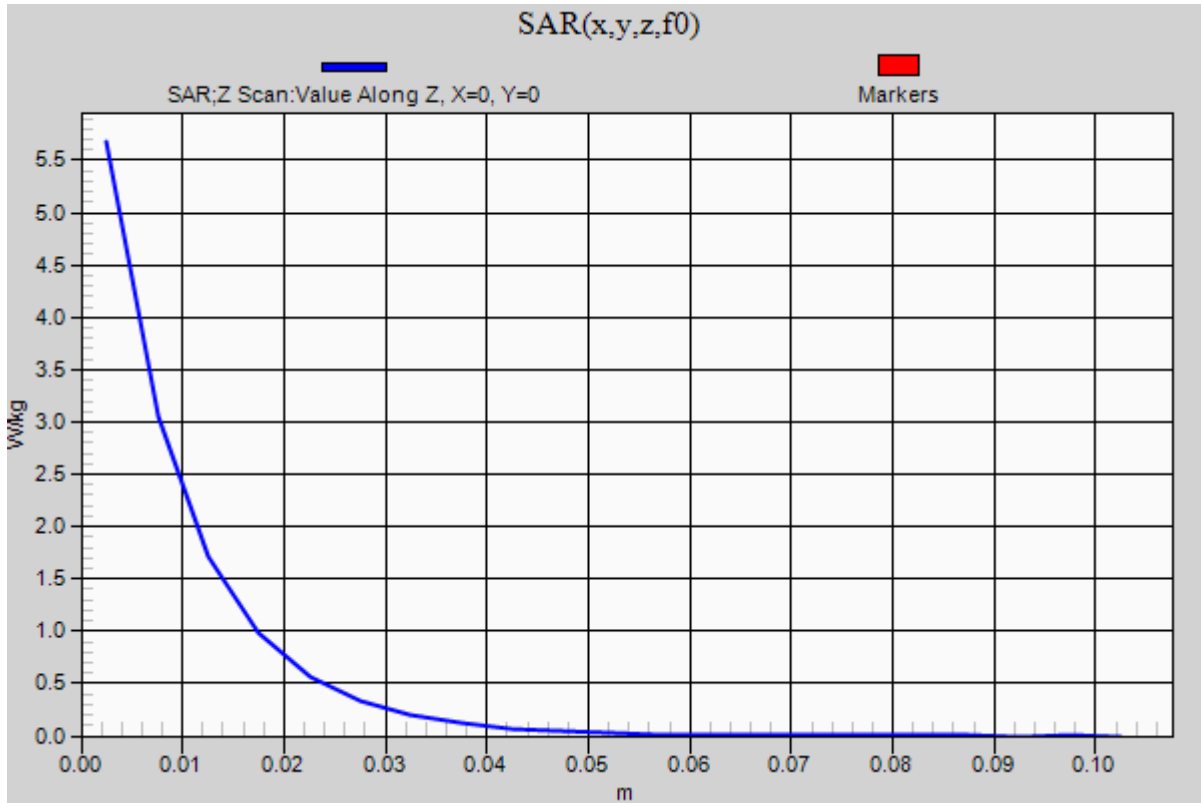
0 dB = 5.75 W/kg = 7.60 dBW/kg

### 20190114\_SystemPerformanceCheck-D1900V2 SN 5d140

Frequency: 1900 MHz; Duty Cycle: 1:1

**Head/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 5.68 W/kg



## 20190123\_SystemPerformanceCheck-D2450V2 SN 899

Frequency: 2450 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.75$  S/m;  $\epsilon_r = 37.729$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1239; Calibrated: 7/11/2018
- Probe: EX3DV4 - SN7482; ConvF(7.27, 7.27, 7.27); Calibrated: 7/23/2018, ConvF(7.27, 7.27, 7.27); Calibrated: 7/23/2018;
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Phantom: Twin-SAM V5.0 (30deg probe tilt); Type: QD 000 P40 CD; Serial: 1740

**Head/Pin=100 mW/Area Scan (8x8x1):** Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 6.33 W/kg

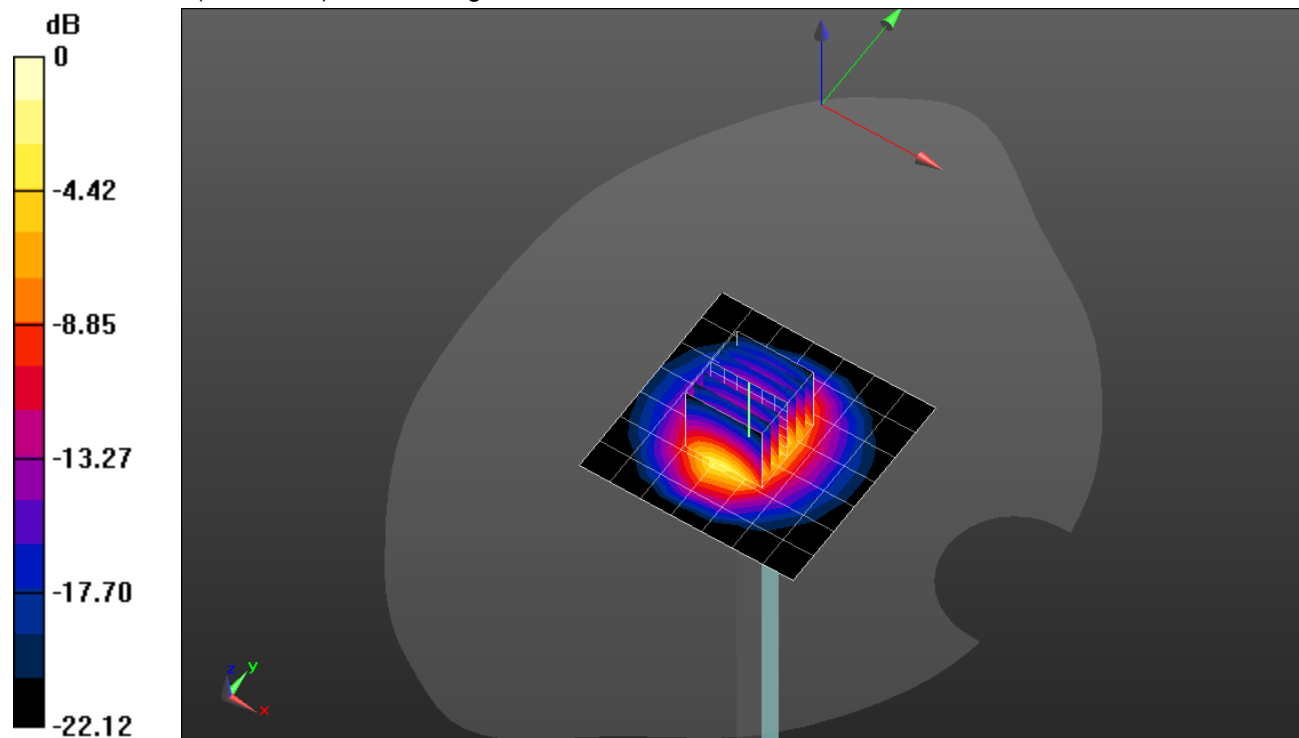
**Head/Pin=100 mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 65.26 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 11.1 W/kg

**SAR(1 g) = 5.34 W/kg; SAR(10 g) = 2.47 W/kg**

Maximum value of SAR (measured) = 7.64 W/kg



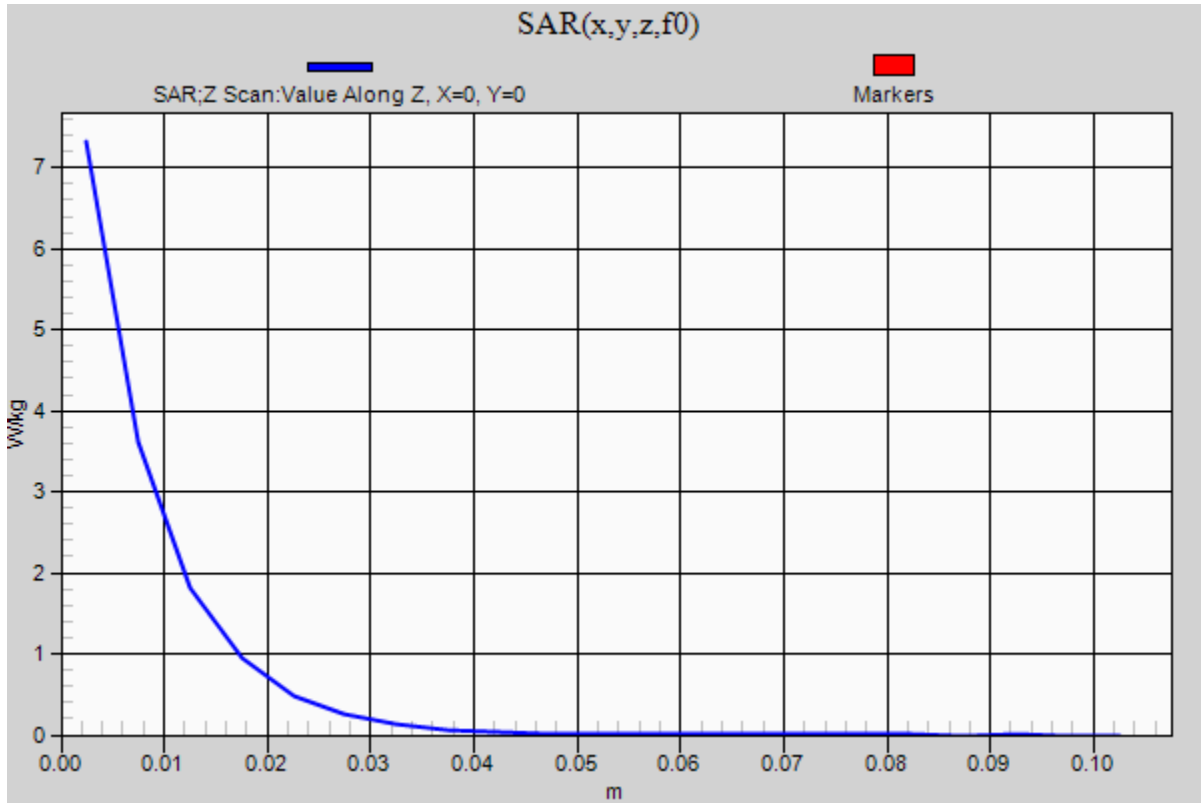
0 dB = 7.64 W/kg = 8.83 dBW/kg

### 20190123\_SystemPerformanceCheck-D2450V2 SN 899

Frequency: 2450 MHz; Duty Cycle: 1:1

**Head/Pin=100 mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of SAR (measured) = 7.32 W/kg



## 20190130\_SystemPerformanceCheck-D5GHzV2 SN 1003

Frequency: 5250 MHz; Duty Cycle: 1:1; Room Ambient Temperature: 24.0°C; Liquid Temperature: 23.0°C

Medium parameters used:  $f = 5250$  MHz;  $\sigma = 5.308$  S/m;  $\epsilon_r = 47.6$ ;  $\rho = 1000$  kg/m<sup>3</sup>

DASY5 Configuration:

- Area Scan Setting: Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Electronics: DAE4 Sn1239; Calibrated: 7/11/2018
- Probe: EX3DV4 - SN7482; ConvF(4.59, 4.59, 4.59); Calibrated: 7/23/2018, ConvF(4.59, 4.59, 4.59); Calibrated: 7/23/2018;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Phantom: ELI V5.0 Slot 6/7; Type: QD OVA 002 AA; Serial: 1247

**Body/5.25 GHz, Pin=100mW/Area Scan (7x7x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 18.6 W/kg

**Body/5.25 GHz, Pin=100mW/Zoom Scan (8x8x7)/Cube 0:** Measurement grid: dx=4mm, dy=4mm,

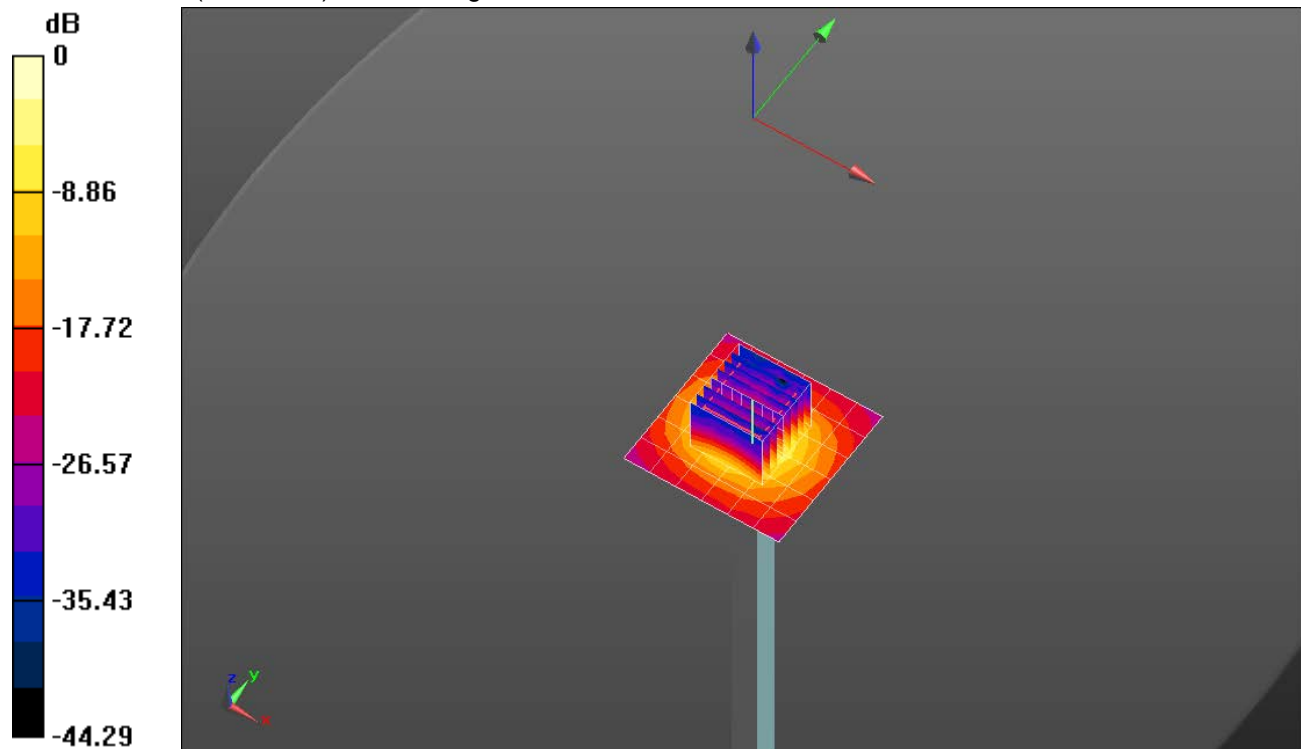
dz=1.4mm

Reference Value = 53.92 V/m; Power Drift = -0.00 dB

Peak SAR (extrapolated) = 29.4 W/kg

**SAR(1 g) = 7.44 W/kg; SAR(10 g) = 2.1 W/kg**

Maximum value of SAR (measured) = 17.2 W/kg



0 dB = 17.2 W/kg = 12.36 dBW/kg

### 20190130\_SystemPerformanceCheck-D5GHzV2 SN 1003

Frequency: 5250 MHz; Duty Cycle: 1:1

**Body/5.25 GHz, Pin=100mW/Z Scan (1x1x21):** Measurement grid: dx=20mm, dy=20mm, dz=5mm  
Maximum value of SAR (measured) = 13.4 W/kg

