

Test Laboratory: Compliance Certification Services

## 1\_Test Position 1

DUT: Apple; Type: Apple; Serial: xxx

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated):  $f = 5260$  MHz;  $\sigma = 5.54$  mho/m;  $\epsilon_r = 48.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.5 deg. C; Liquid Temperature: 25.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(5.2, 5.2, 5.2); Calibrated: 7/21/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**5.2 M-ch/Area Scan (10x16x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.340 mW/g

**5.2 M-ch/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

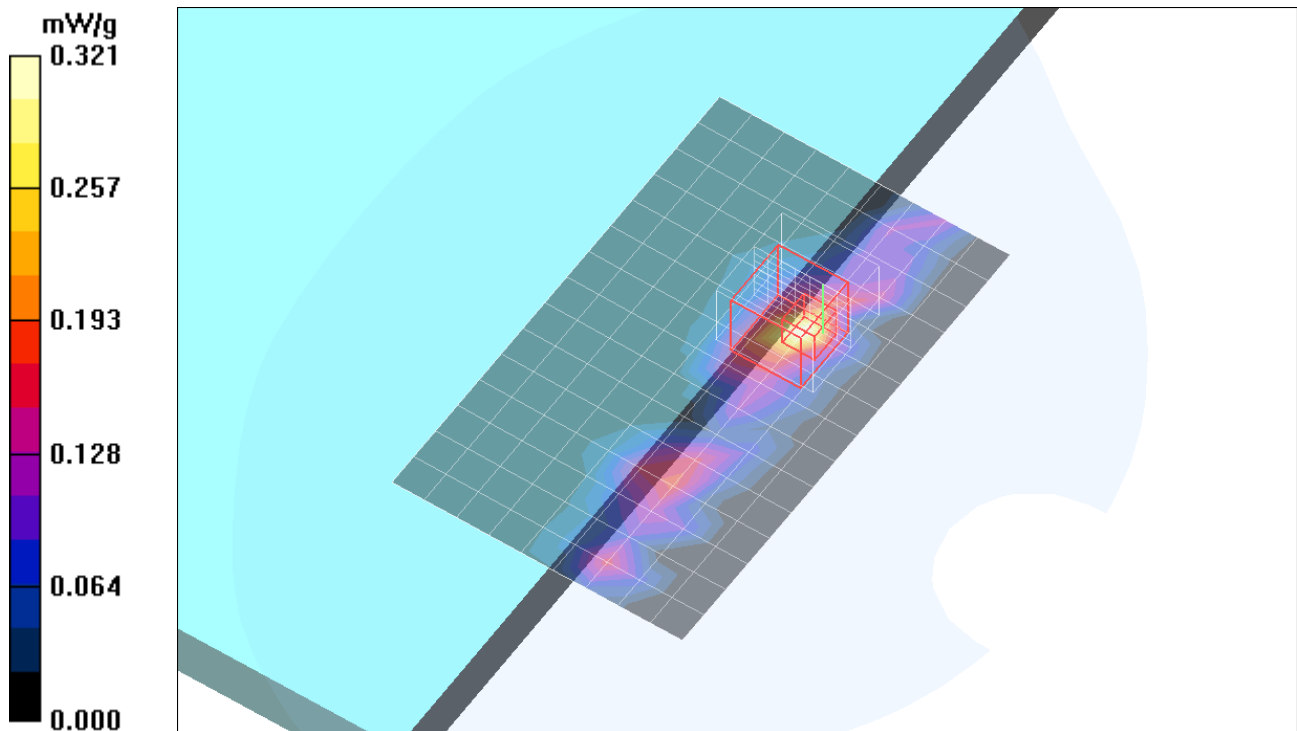
Reference Value = 2.34 V/m; Power Drift = 0.149 dB

Peak SAR (extrapolated) = 0.699 W/kg

**SAR(1 g) = 0.167 mW/g; SAR(10 g) = 0.058 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.321 mW/g



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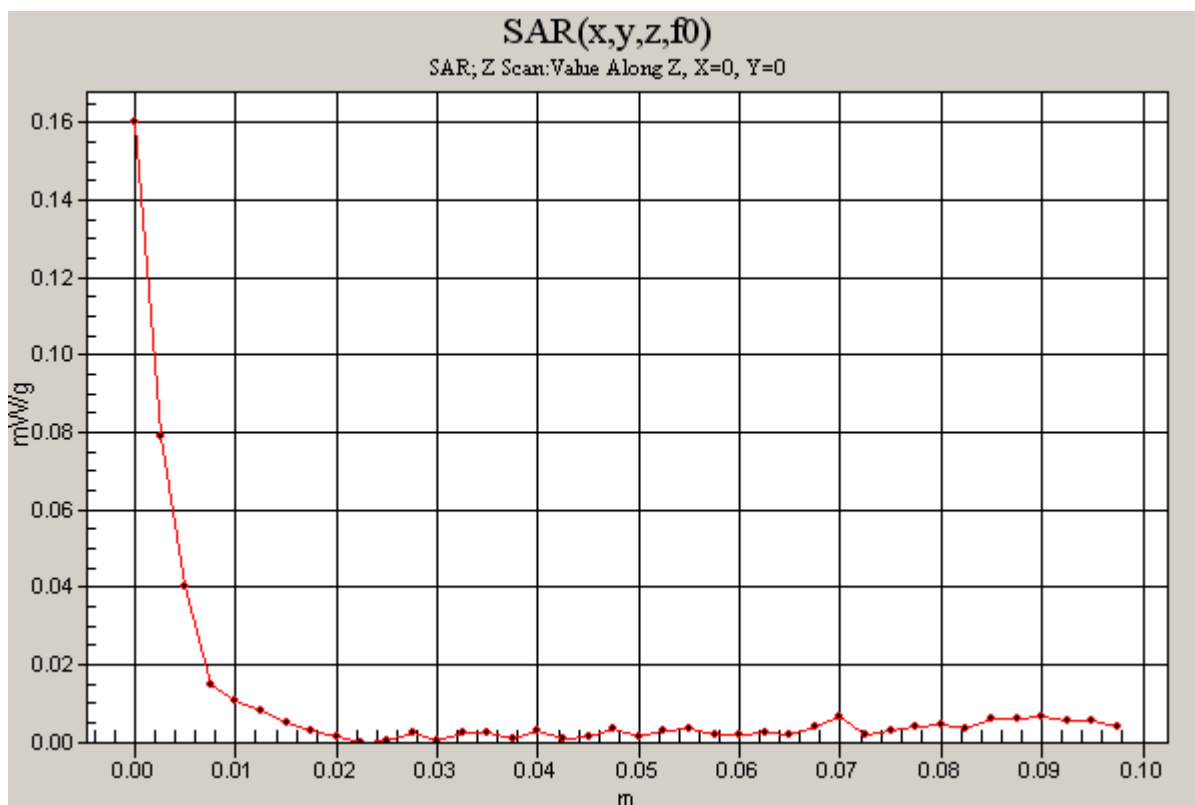
DUT: Apple; Type: Apple; Serial: xxx

Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1.01

### 5.2 M-ch/Z Scan (1x1x41): Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

Info: [Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.160 mW/g



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## 1\_Test Position 1

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Communication System: 802.11a; Frequency: 5260 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated):  $f = 5260$  MHz;  $\sigma = 5.54$  mho/m;  $\epsilon_r = 48.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.5 deg. C; Liquid Temperature: 25.0 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(5.2, 5.2, 5.2); Calibrated: 7/21/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

### 5.2 M-ch with bluetooth/Area Scan (10x16x1): Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.321 mW/g

### 5.2 M-ch with bluetooth/Zoom Scan (8x8x8)/Cube 0: Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

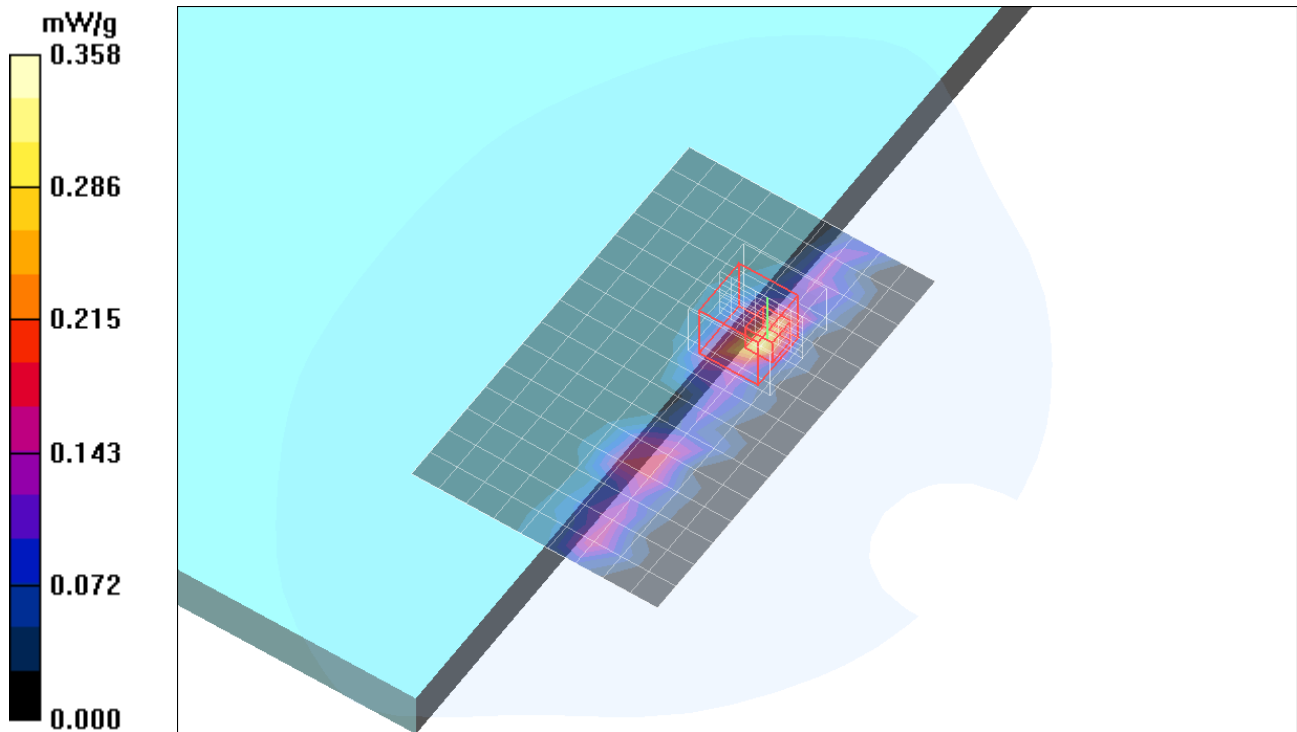
Reference Value = 1.15 V/m; Power Drift = 0.167 dB

Peak SAR (extrapolated) = 0.681 W/kg

**SAR(1 g) = 0.153 mW/g; SAR(10 g) = 0.054 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.358 mW/g



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## 1\_Test Position 1

DUT: Apple; Type: Apple; Serial: xxx

Communication System: 802.11a; Frequency: 5745 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated):  $f = 5745$  MHz;  $\sigma = 6.17$  mho/m;  $\epsilon_r = 46.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.5 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(4.75, 4.75, 4.75); Calibrated: 7/21/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**5.8 GHz\_L ch/Area Scan (10x12x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.50 mW/g

**5.8 GHz\_L ch/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

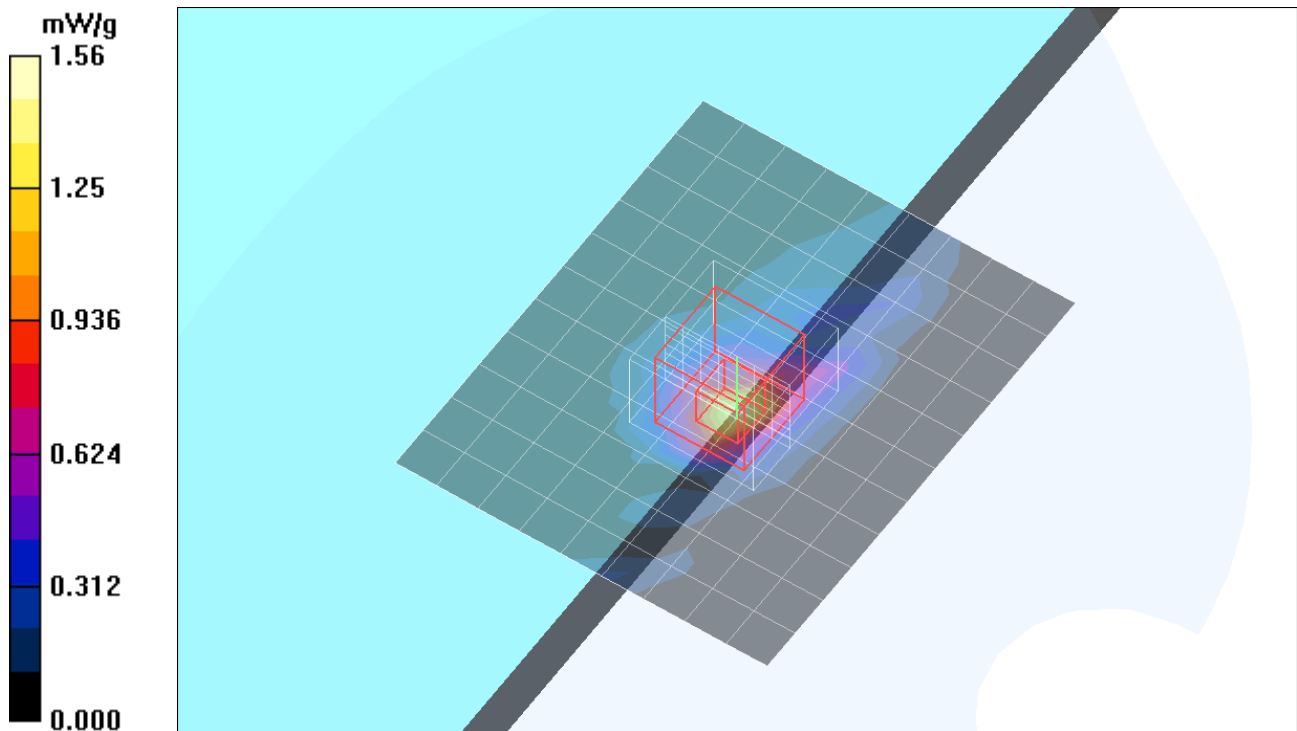
Reference Value = 2.34 V/m; Power Drift = -0.11 dB

Peak SAR (extrapolated) = 3.22 W/kg

**SAR(1 g) = 0.781 mW/g; SAR(10 g) = 0.260 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.56 mW/g



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## 1\_Test Position 1

DUT: Apple; Type: Apple; Serial: xxx

Communication System: 802.11a; Frequency: 5785 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated):  $f = 5785$  MHz;  $\sigma = 6.23$  mho/m;  $\epsilon_r = 46.9$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.5 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(4.75, 4.75, 4.75); Calibrated: 7/21/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**5.8 GHz\_M-ch/Area Scan (14x15x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 0.880 mW/g

**5.8 GHz\_M-ch/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

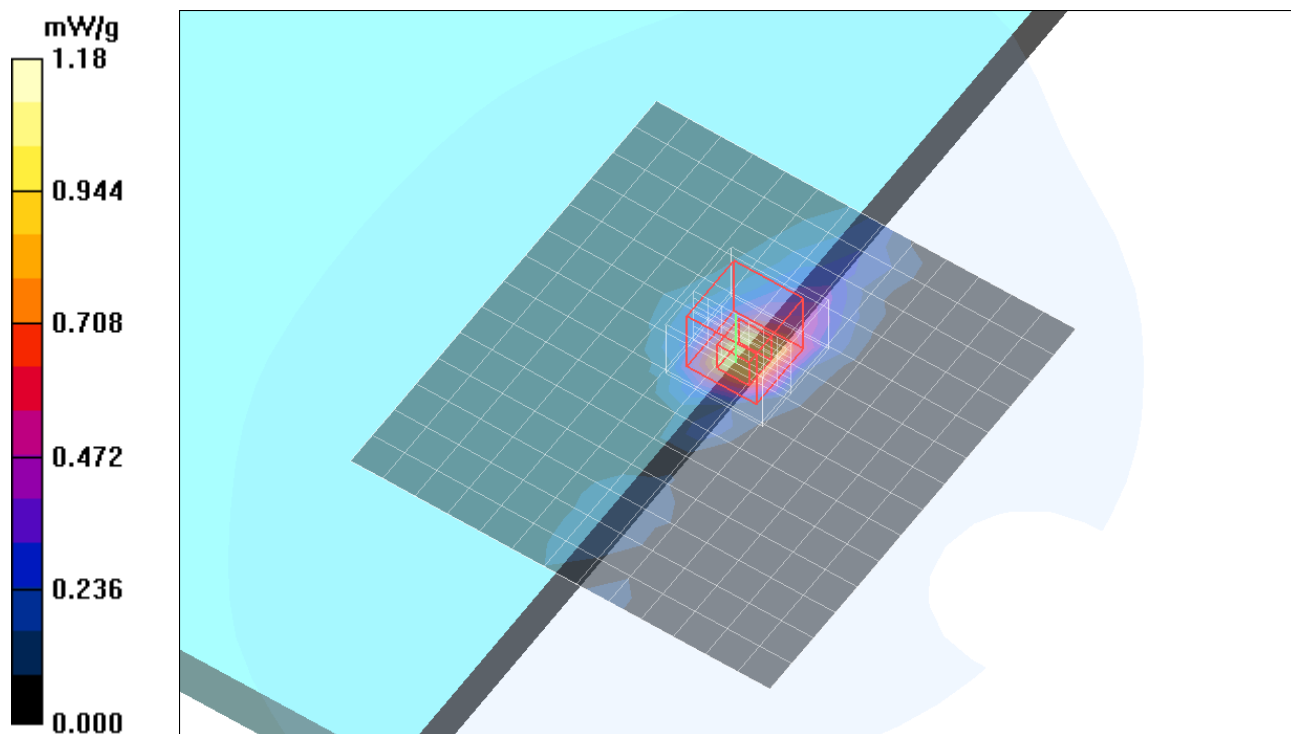
Reference Value = 2.07 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 2.54 W/kg

**SAR(1 g) = 0.608 mW/g; SAR(10 g) = 0.205 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.18 mW/g



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## 1\_Test Position 1

DUT: Apple; Type: Apple; Serial: xxx

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 6.29$  mho/m;  $\epsilon_r = 46.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.5 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(4.75, 4.75, 4.75); Calibrated: 7/21/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**5.8 GHz\_H-ch/Area Scan (10x12x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.94 mW/g

**5.8 GHz\_H-ch/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

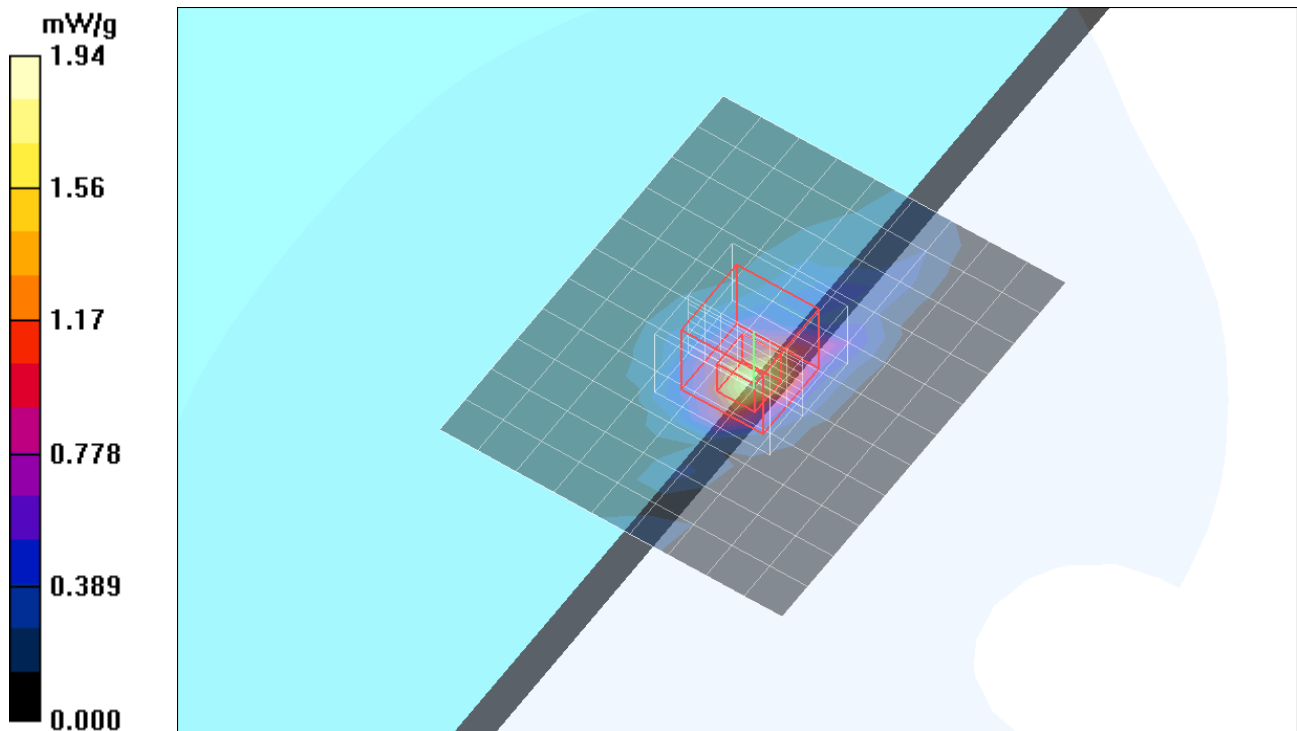
Reference Value = 4.28 V/m; Power Drift = -0.004 dB

Peak SAR (extrapolated) = 4.33 W/kg

**SAR(1 g) = 1 mW/g; SAR(10 g) = 0.328 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.01 mW/g



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## 1\_Test Position 1

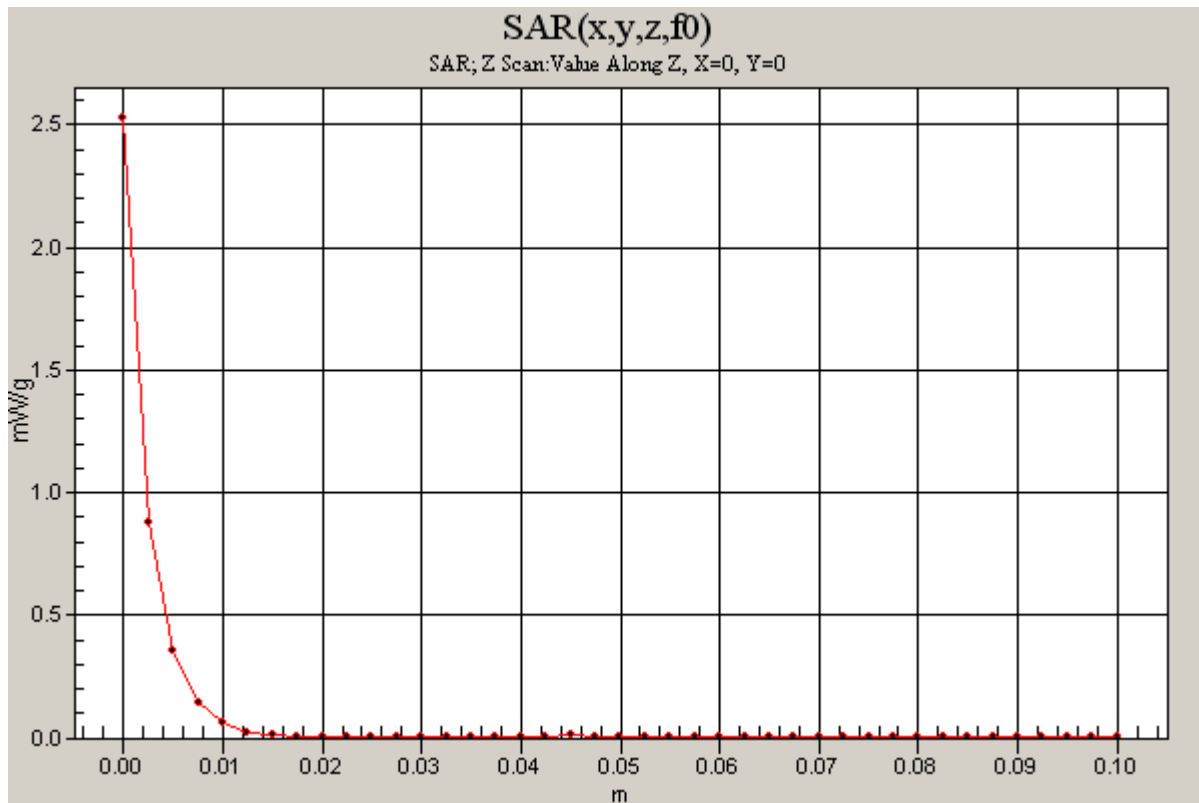
DUT: Apple; Type: Apple; Serial: xxx

Communication System: 802.11a; Frequency: 5825 MHz;Duty Cycle: 1:1.01

**5.8 GHz\_H-ch/Z Scan (1x1x41):** Measurement grid: dx=20mm, dy=20mm, dz=2.5mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 2.53 mW/g



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## 1\_Test Position 1

DUT: Apple; Type: Apple; Serial: xxx

Communication System: 802.11a; Frequency: 5825 MHz; Duty Cycle: 1:1.01

Medium parameters used (interpolated):  $f = 5825$  MHz;  $\sigma = 6.29$  mho/m;  $\epsilon_r = 46.8$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Room Ambient Temperature: 25.0 deg. C; Liquid Temperature: 24.5 deg. C

DASY4 Configuration:

- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV3 - SN3531; ConvF(4.75, 4.75, 4.75); Calibrated: 7/21/2005
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn500; Calibrated: 2/7/2005
- Phantom: SAM 2; Type: SAM 2; Serial: 1050
- Measurement SW: DASY4, V4.6 Build 23; Postprocessing SW: SEMCAD, V1.8 Build 160

**5.8 GHz\_H-ch with Bluetooth/Area Scan (10x12x1):** Measurement grid: dx=10mm, dy=10mm

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.82 mW/g

**5.8 GHz\_H-ch with Bluetooth/Zoom Scan (8x8x8)/Cube 0:** Measurement grid: dx=4.3mm, dy=4.3mm, dz=3mm

Reference Value = 3.44 V/m; Power Drift = -0.182 dB

Peak SAR (extrapolated) = 4.00 W/kg

**SAR(1 g) = 0.945 mW/g; SAR(10 g) = 0.313 mW/g**

[Info: Interpolated medium parameters used for SAR evaluation.](#)

Maximum value of SAR (measured) = 1.89 mW/g

