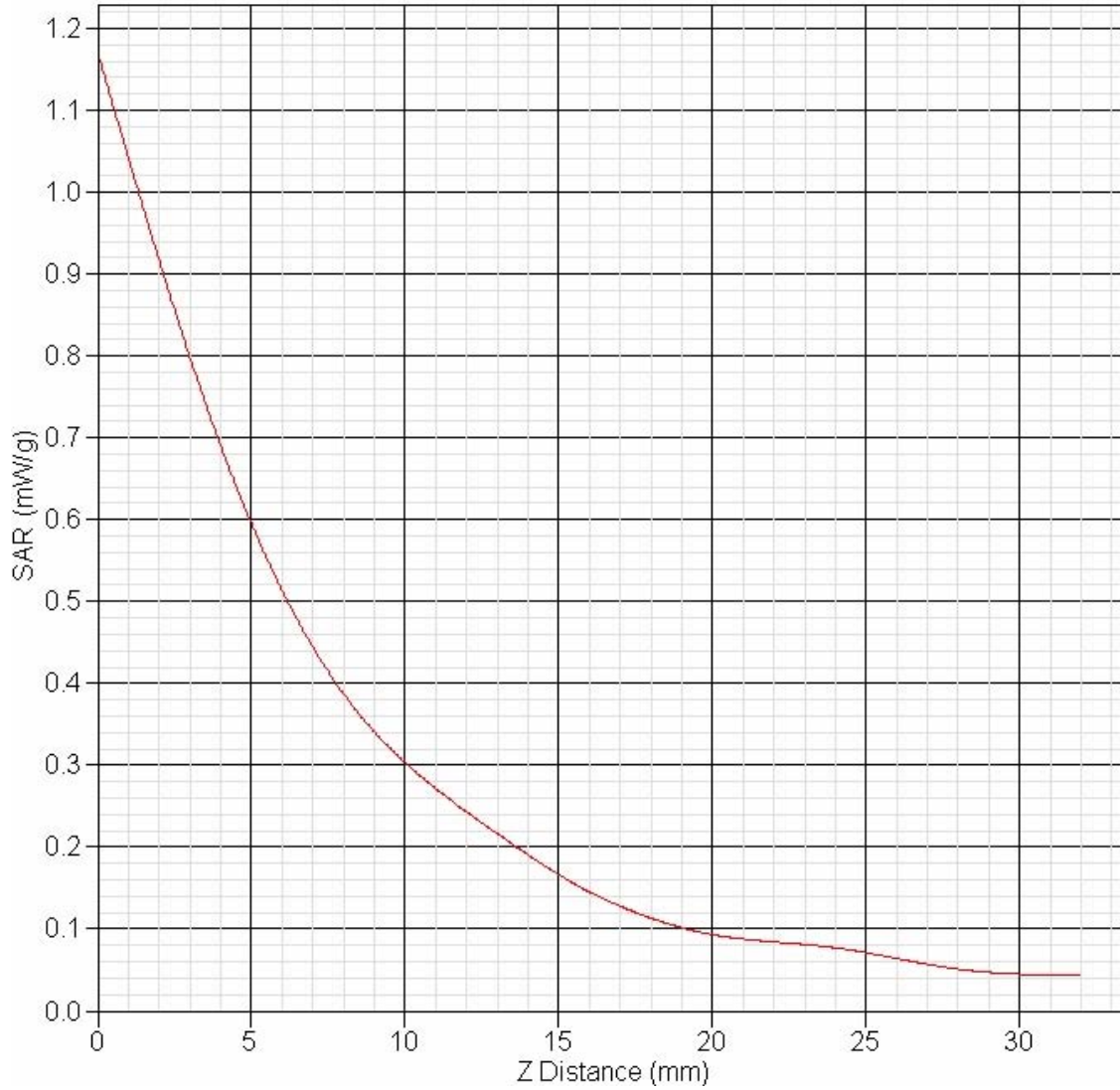


## SAR-Z Axis at Hotspot x:20.07 y:-10.10



## SAR Test Report

Report Date : 06-Sep-2007  
 By Operator : 123  
 Measurement Date : 06-Sep-2007  
 Starting Time : 06-Sep-2007 02:11:59 PM  
 End Time : 06-Sep-2007 02:31:49 PM  
 Scanning Time : 1190 secs

Product Data  
 Device Name : Dell Hawk-2  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 2450.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 110 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.214 W/kg  
 Power Drift-Finish : 0.218 W/kg  
 Power Drift (%) : 1.901  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 2450B  
 Frequency : 2450.00 MHz  
 Last Calib. Date : 05-Sep-2007  
 Temperature : 21.00 °C  
 Ambient Temp. : 23.00 °C  
 Humidity : 35.00 RH%  
 Epsilon : 50.70 F/m  
 Sigma : 1.97 S/m  
 Density : 1000.00 kg/cu. m



## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 2450.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.4  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

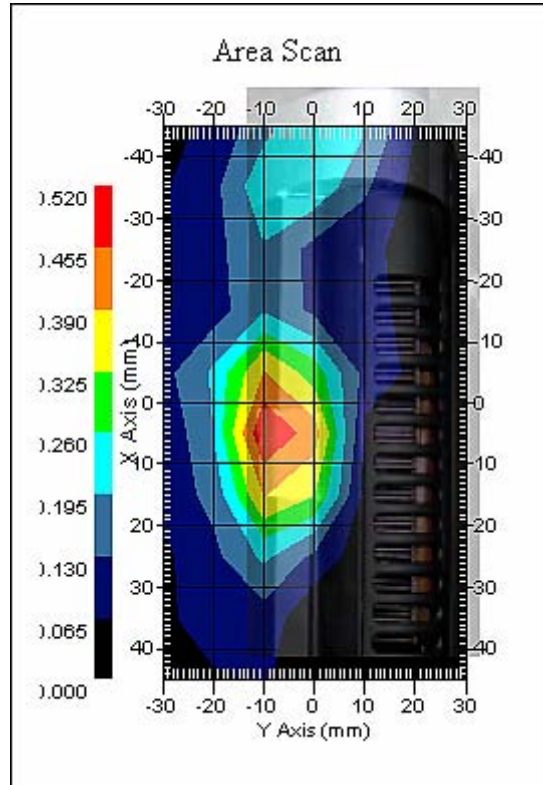
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 21.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 06-Sep-2007  
 Set-up Time : 2:10:41 PM  
 Area Scan : 10x7x1 : Measurement x=10mm, y=10mm, z=4mm  
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Mid





1 gram SAR value : 0.441 W/kg  
 Zoom Scan Peak SAR : 0.980 W/kg





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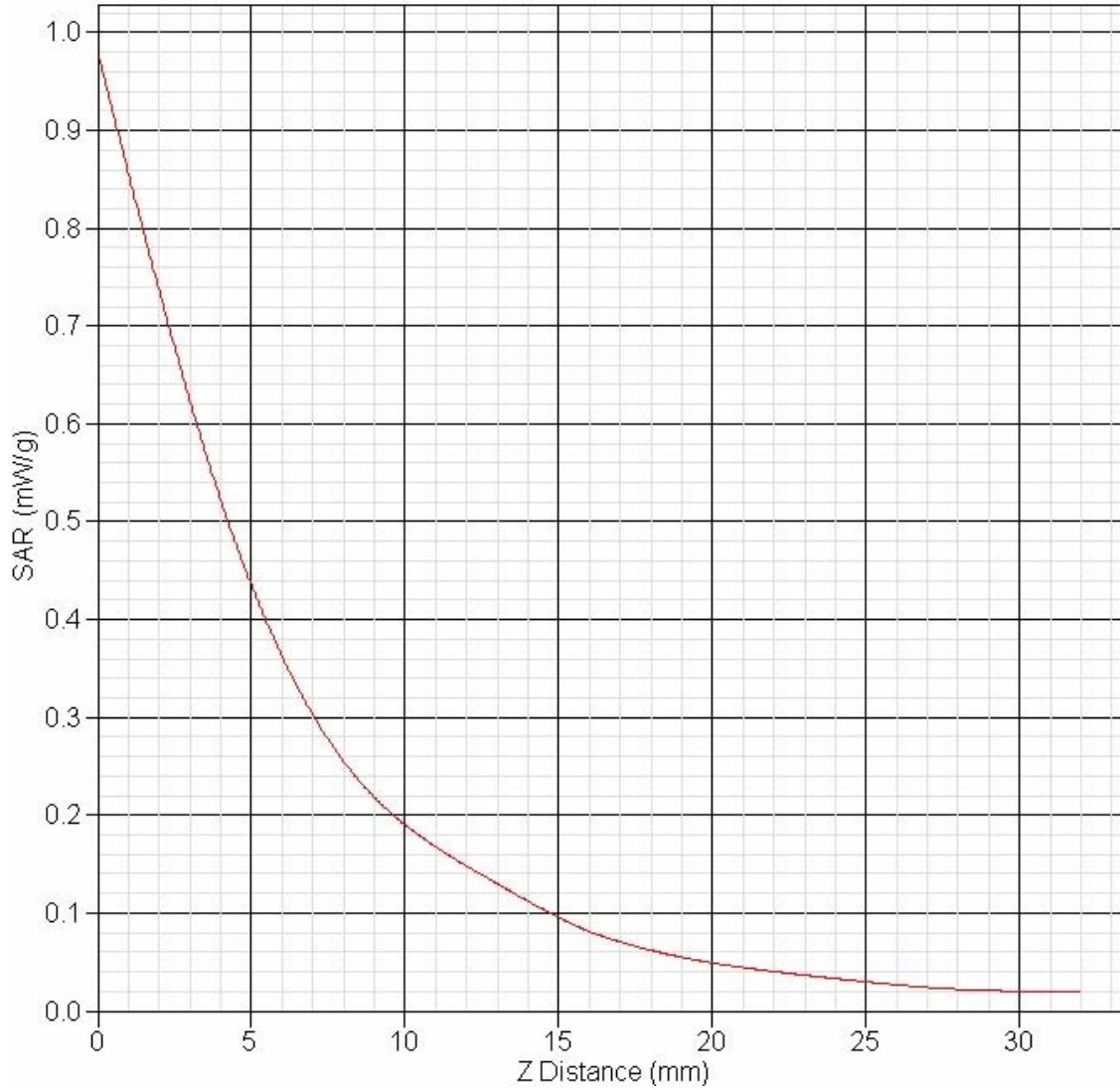
**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 1.9             | rectangular              | •3      | 1                | 1                 | 1.1                             | 1.1                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.0             | normal                   | 1       | 0.7              | 0.5               | 0.7                             | 0.5                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 3.8             | normal                   | 1       | 0.6              | 0.5               | 2.3                             | 1.9                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 9.6                             | 9.3                              |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 19.2                            | 18.7                             |





## SAR-Z Axis at Hotspot x:20.05 y:-2.10



## SAR Test Report

Report Date : 06-Sep-2007  
 By Operator : 123  
 Measurement Date : 06-Sep-2007  
 Starting Time : 06-Sep-2007 03:12:29 PM  
 End Time : 06-Sep-2007 03:32:25 PM  
 Scanning Time : 1196 secs

Product Data  
 Device Name : Dell Hawk-2  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 2450.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 110 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.152 W/kg  
 Power Drift-Finish : 0.146 W/kg  
 Power Drift (%) : -3.716  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 2450B  
 Frequency : 2450.00 MHz  
 Last Calib. Date : 05-Sep-2007  
 Temperature : 21.00 °C  
 Ambient Temp. : 23.00 °C  
 Humidity : 35.00 RH%  
 Epsilon : 50.70 F/m  
 Sigma : 1.97 S/m  
 Density : 1000.00 kg/cu. m



## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 2450.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.4  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

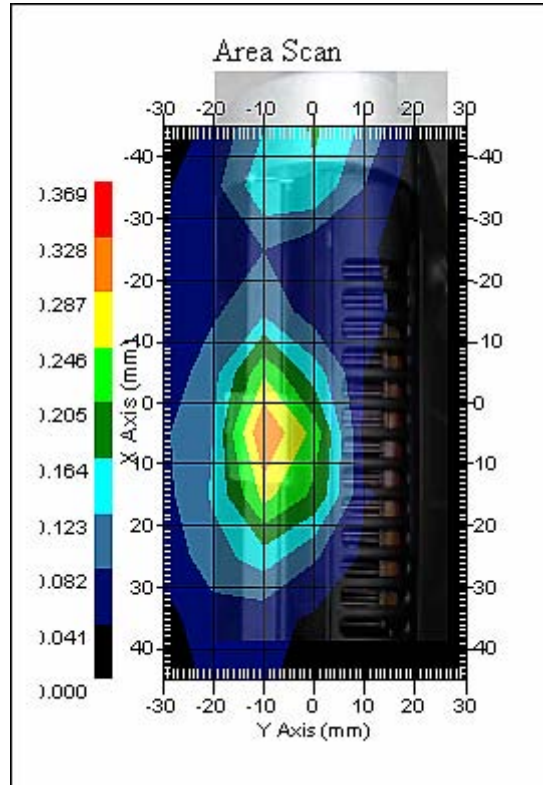
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 21.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 06-Sep-2007  
 Set-up Time : 3:12:21 PM  
 Area Scan : 10x7x1 : Measurement x=10mm, y=10mm, z=4mm  
 Zoom Scan : 5x5x8 : Measurement x=8mm, y=8mm, z=4mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : High







1 gram SAR value : 0.294 W/kg  
Zoom Scan Peak SAR : 0.570 W/kg





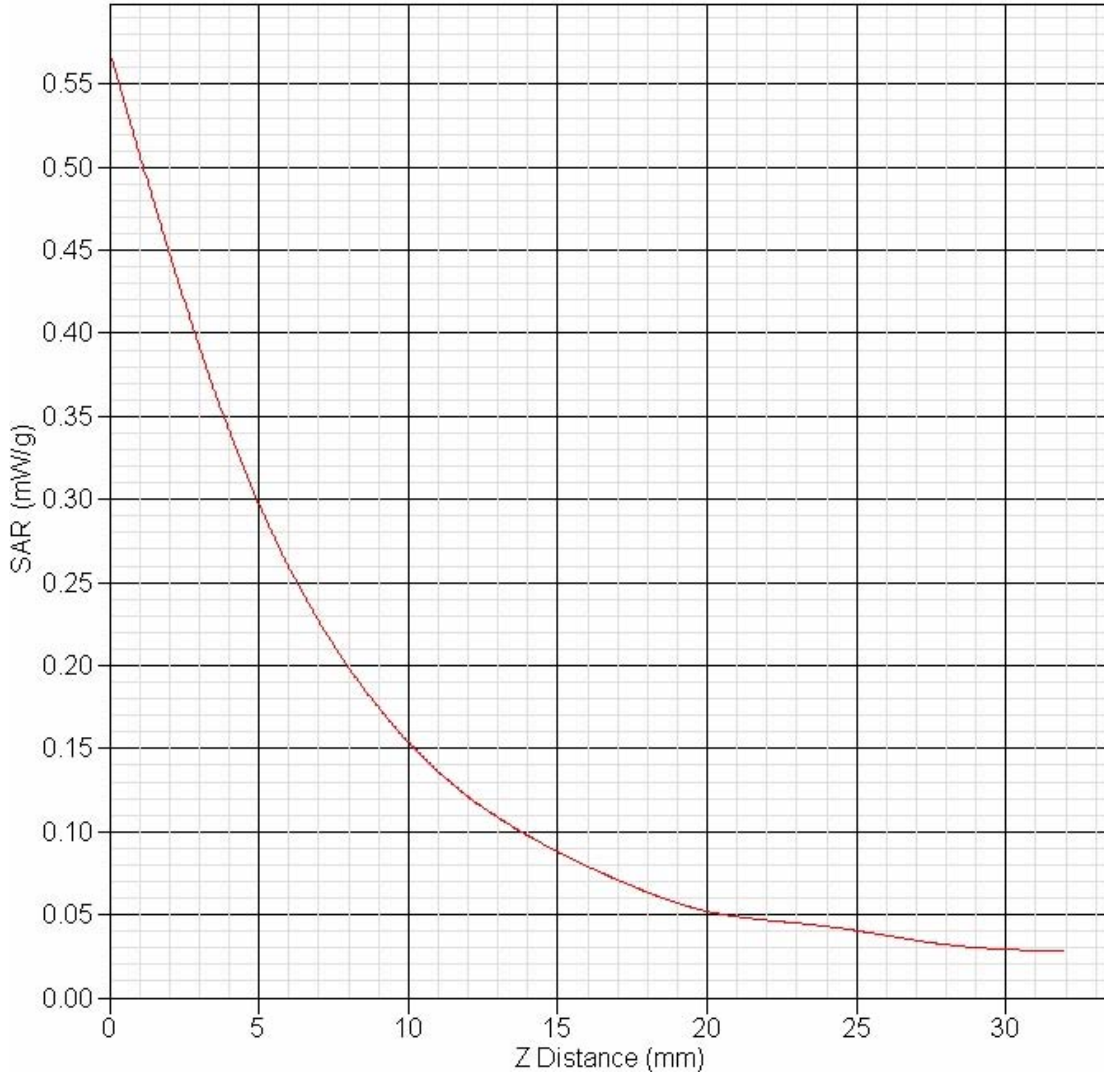
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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.0             | normal                   | 1       | 0.7              | 0.5               | 0.7                             | 0.5                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 3.8             | normal                   | 1       | 0.6              | 0.5               | 2.3                             | 1.9                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 10.8                            | 10.7                             |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 21.6                            | 21.4                             |



## SAR-Z Axis at Hotspot x:20.04 y:-10.10



## SAR Test Report

Report Date : 08-Sep-2007  
 By Operator : 123  
 Measurement Date : 08-Sep-2007  
 Starting Time : 08-Sep-2007 09:57:57 AM  
 End Time : 08-Sep-2007 10:18:41 AM  
 Scanning Time : 1244 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5200.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.858 W/kg  
 Power Drift-Finish : 0.817 W/kg  
 Power Drift (%) : -4.963  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 5200B  
 Frequency : 5200.00 MHz  
 Last Calib. Date : 06-Sep-2007  
 Temperature : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Humidity : 35.00 RH%  
 Epsilon : 47.39 F/m  
 Sigma : 5.41 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5200.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.5  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

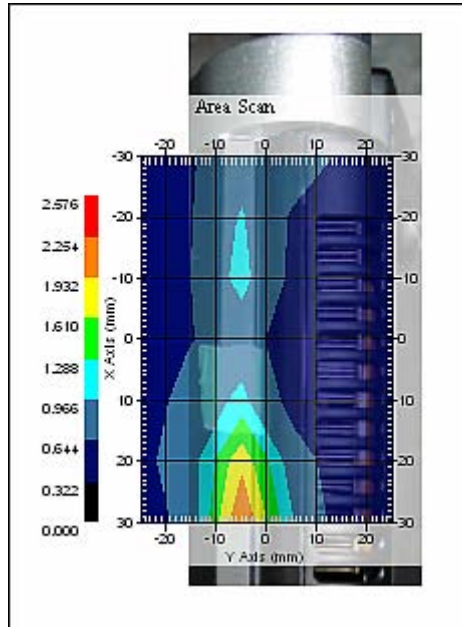
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 08-Sep-2007  
 Set-up Time : 9:55:14 AM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : High







1 gram SAR value : 0.370 W/kg  
 Zoom Scan Peak SAR : 1.791 W/kg





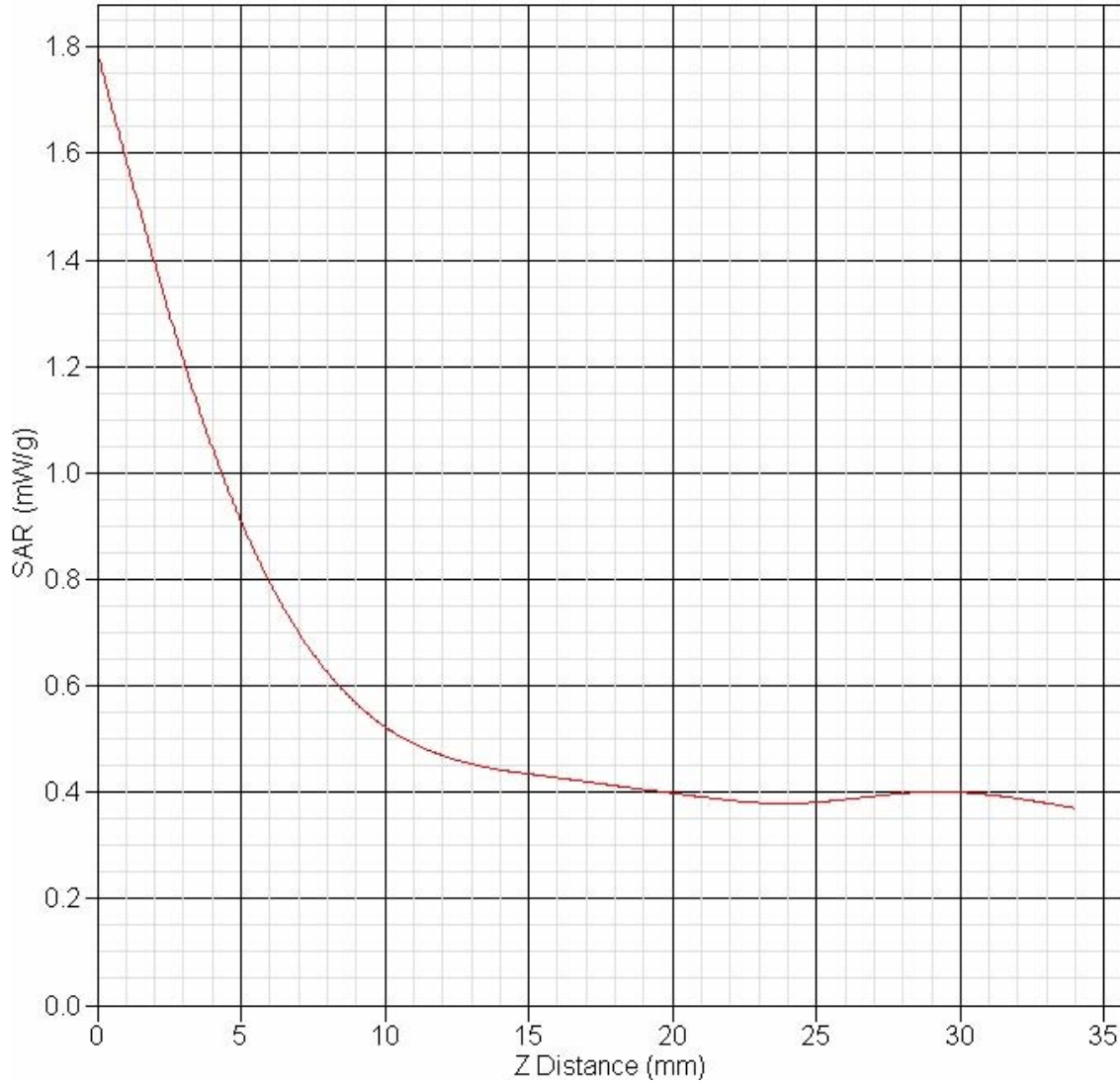
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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 4.5             | rectangular              | •3      | 1                | 1                 | 2.6                             | 2.6                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.1             | normal                   | 1       | 0.7              | 0.5               | 0.8                             | 0.6                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 3.1             | normal                   | 1       | 0.6              | 0.5               | 1.9                             | 1.5                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 10.7                            | 10.6                             |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 21.4                            | 21.2                             |



## SAR-Z Axis at Hotspot x:-14.76 y:-5.07



## SAR Test Report

Report Date : 08-Sep-2007  
 By Operator : 123  
 Measurement Date : 08-Sep-2007  
 Starting Time : 08-Sep-2007 11:25:12 AM  
 End Time : 08-Sep-2007 11:46:35 AM  
 Scanning Time : 1283 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5200.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.602 W/kg  
 Power Drift-Finish : 0.587 W/kg  
 Power Drift (%) : -2.613  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 5200B  
 Frequency : 5200.00 MHz  
 Last Calib. Date : 06-Sep-2007  
 Temperature : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Humidity : 35.00 RH%  
 Epsilon : 47.39 F/m  
 Sigma : 5.41 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5200.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.5  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

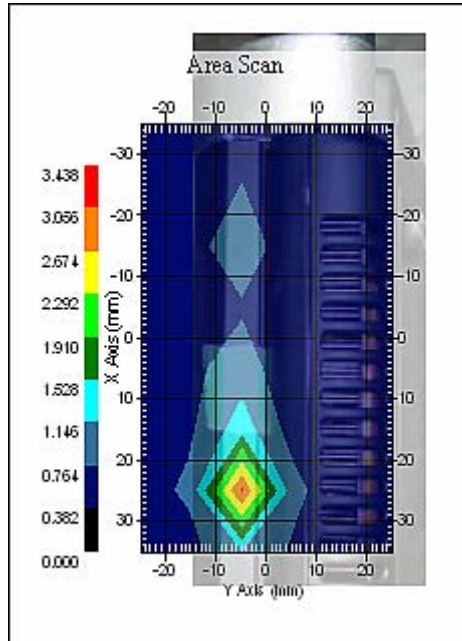
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 08-Sep-2007  
 Set-up Time : 11:24:33 AM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Mid







1 gram SAR value : 0.832 W/kg  
 Zoom Scan Peak SAR : 3.135 W/kg





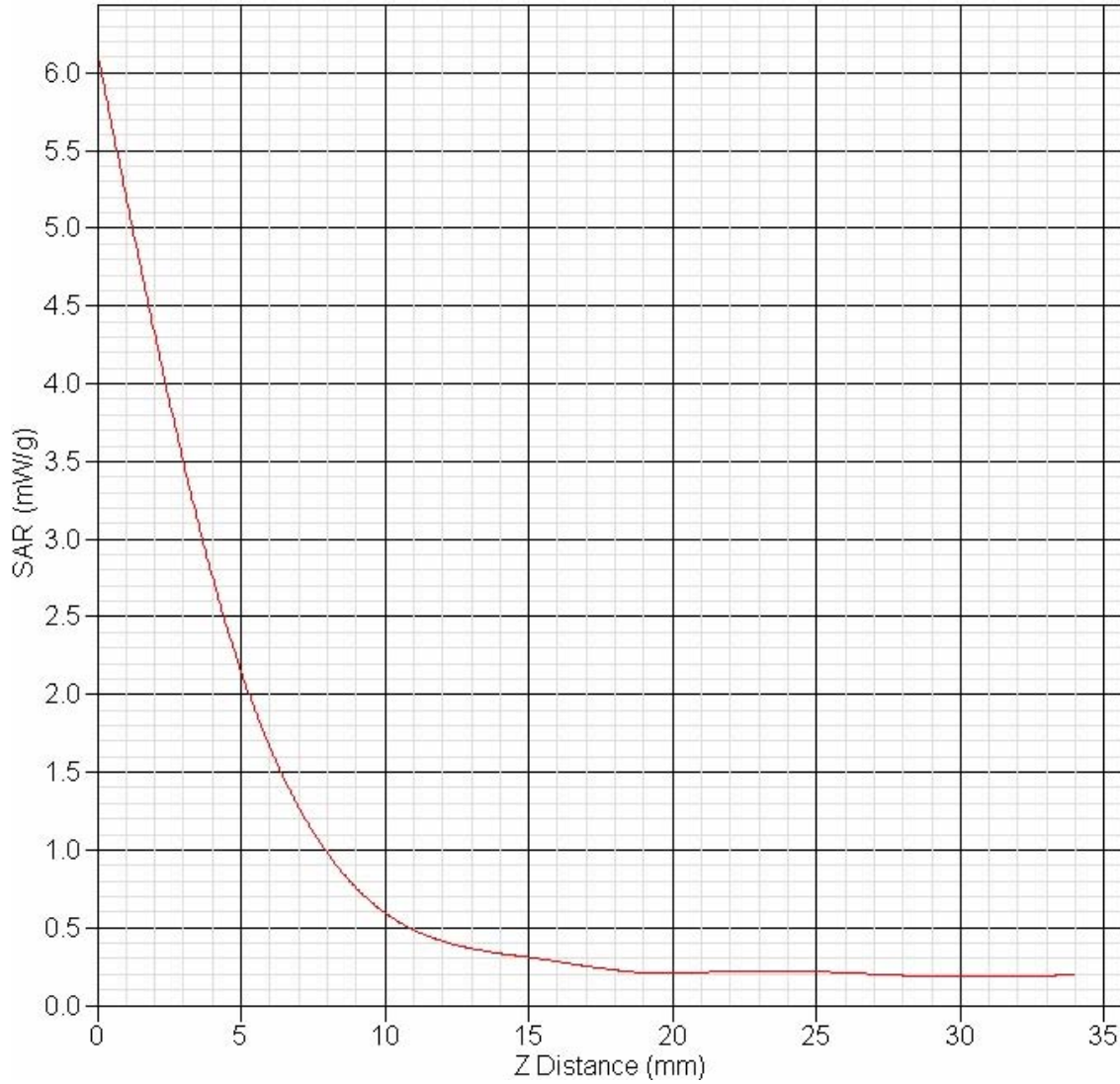
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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 2.6             | rectangular              | •3      | 1                | 1                 | 1.5                             | 1.5                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.1             | normal                   | 1       | 0.7              | 0.5               | 0.8                             | 0.6                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 3.1             | normal                   | 1       | 0.6              | 0.5               | 1.9                             | 1.5                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 9.8                             | 9.6                              |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 19.6                            | 19.2                             |



## SAR-Z Axis at Hotspot x:30.03 y:-5.09



## SAR Test Report

Report Date : 08-Sep-2007  
 By Operator : 123  
 Measurement Date : 08-Sep-2007  
 Starting Time : 08-Sep-2007 01:22:15 PM  
 End Time : 08-Sep-2007 01:43:44 PM  
 Scanning Time : 1289 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5200.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.640 W/kg  
 Power Drift-Finish: 0.604 W/kg  
 Power Drift (%) : -5.987  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 5200B  
 Frequency : 5200.00 MHz  
 Last Calib. Date : 06-Sep-2007  
 Temperature : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Humidity : 35.00 RH%  
 Epsilon : 47.39 F/m  
 Sigma : 5.41 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5200.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.5  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

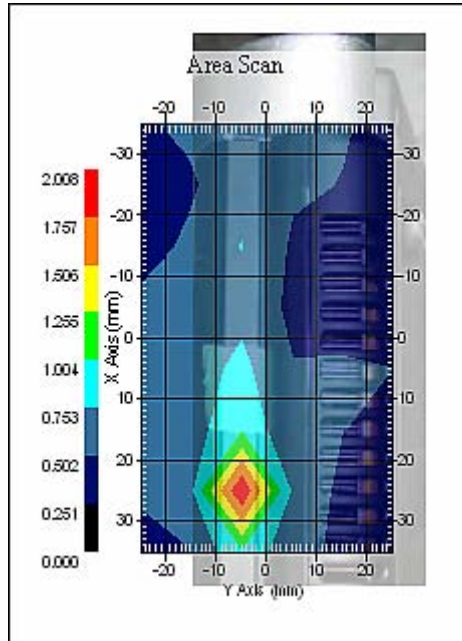
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 08-Sep-2007  
 Set-up Time : 1:21:46 PM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : High







1 gram SAR value : 0.535 W/kg  
 Zoom Scan Peak SAR : 2.282 W/kg





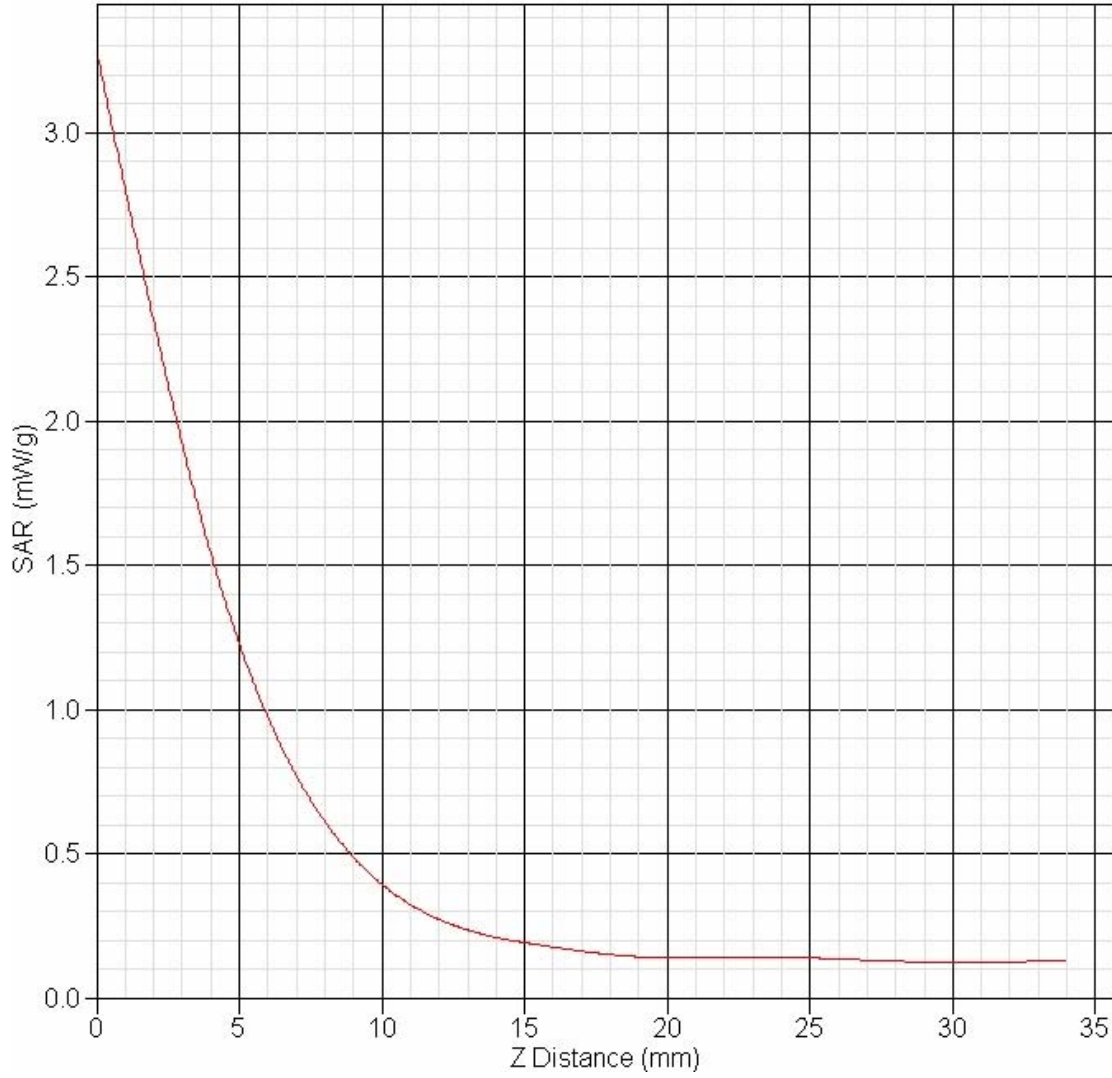
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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                            | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|--|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                               |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                   | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                           | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                  | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity  | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                  | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                              | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                    | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                 | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                             | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                           | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                      |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell  | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                    | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                          | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                        | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                            | 6.0             | rectangular              | •3      | 1                | 1                 | 3.4                             | 3.4                              |
| Phantom and Setup                                |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty(shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity(target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity(meas.)                       | 1.1             | normal                   | 1       | 0.7              | 0.5               | 0.8                             | 0.6                              |
| Liquid Permittivity(target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity(meas.)                       | 3.1             | normal                   | 1       | 0.6              | 0.5               | 1.9                             | 1.5                              |
| Combined Uncertainty                             |                 | RSS                      |         |                  |                   | 13.9                            | 13.8                             |
| Combined Uncertainty (coverage factor=2)         |                 | Normal (k=2)             |         |                  |                   | 27.8                            | 27.6                             |



## SAR-Z Axis at Hotspot x:30.04 y:-5.15



## SAR Test Report

Report Date : 08-Sep-2007  
 By Operator : 123  
 Measurement Date : 08-Sep-2007  
 Starting Time : 08-Sep-2007 03:11:07 PM  
 End Time : 08-Sep-2007 03:32:49 PM  
 Scanning Time : 1302 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5200.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.505 W/kg  
 Power Drift-Finish : 0.490 W/kg  
 Power Drift (%) : -3.111  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 5200B  
 Frequency : 5200.00 MHz  
 Last Calib. Date : 06-Sep-2007  
 Temperature : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Humidity : 35.00 RH%  
 Epsilon : 47.39 F/m  
 Sigma : 5.41 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5200.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.5  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

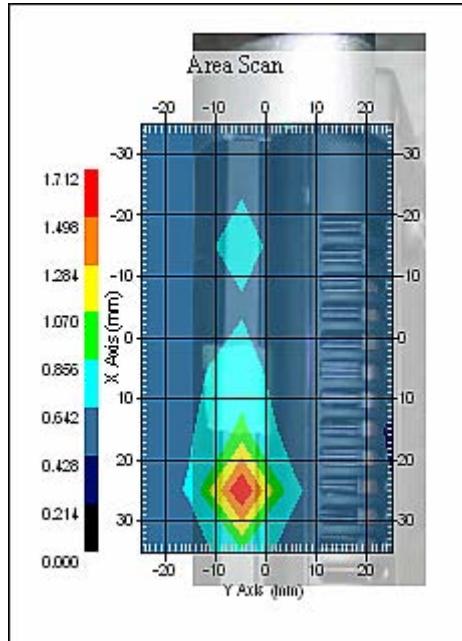
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 08-Sep-2007  
 Set-up Time : 3:10:38 PM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : High







1 gram SAR value : 0.452 W/kg  
 Zoom Scan Peak SAR : 2.122 W/kg





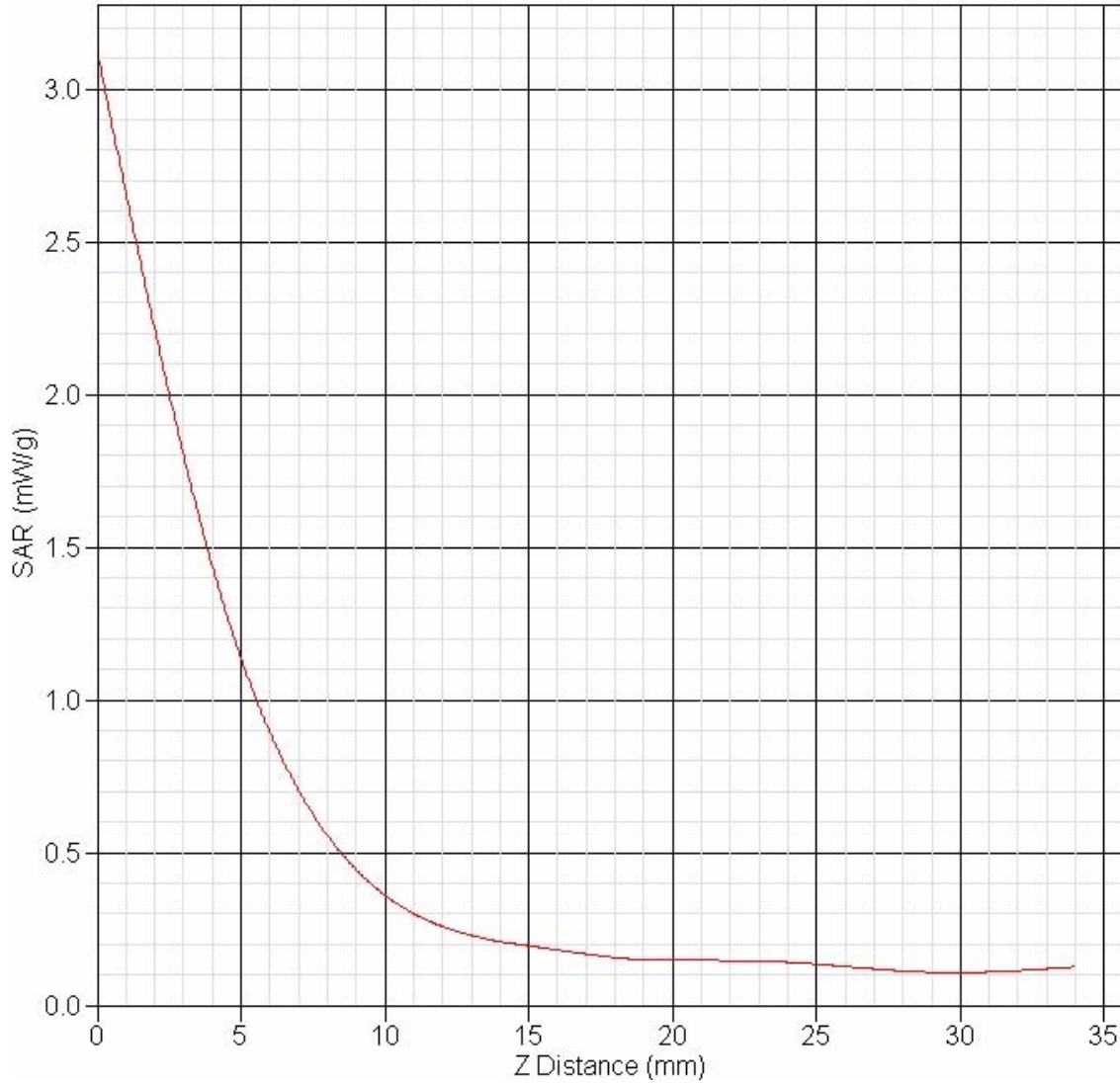
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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 3.1             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.1             | normal                   | 1       | 0.7              | 0.5               | 0.8                             | 0.6                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 3.1             | normal                   | 1       | 0.6              | 0.5               | 1.9                             | 1.5                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 12.1                            | 11.9                             |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 24.2                            | 23.8                             |



## SAR-Z Axis at Hotspot x:30.04 y:-0.13



## SAR Test Report

Report Date : 08-Sep-2007  
 By Operator : 123  
 Measurement Date : 08-Sep-2007  
 Starting Time : 08-Sep-2007 04:45:59 PM  
 End Time : 08-Sep-2007 05:07:44 PM  
 Scanning Time : 1305 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5200.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.584 W/kg  
 Power Drift-Finish : 0.551 W/kg  
 Power Drift (%) : -5.713  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 5200B  
 Frequency : 5200.00 MHz  
 Last Calib. Date : 06-Sep-2007  
 Temperature : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Humidity : 35.00 RH%  
 Epsilon : 47.39 F/m  
 Sigma : 5.41 S/m  
 Density : 1000.00 kg/cu. m



## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5200.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 3.5  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

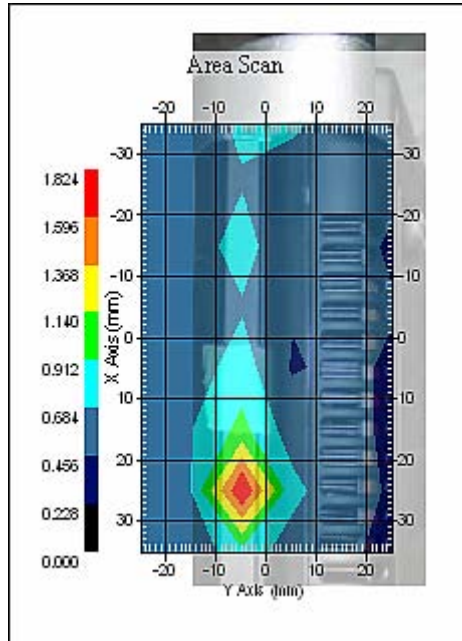
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 20.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 08-Sep-2007  
 Set-up Time : 4:45:15 PM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : High







1 gram SAR value : 0.470 W/kg  
 Zoom Scan Peak SAR : 3.12 W/kg





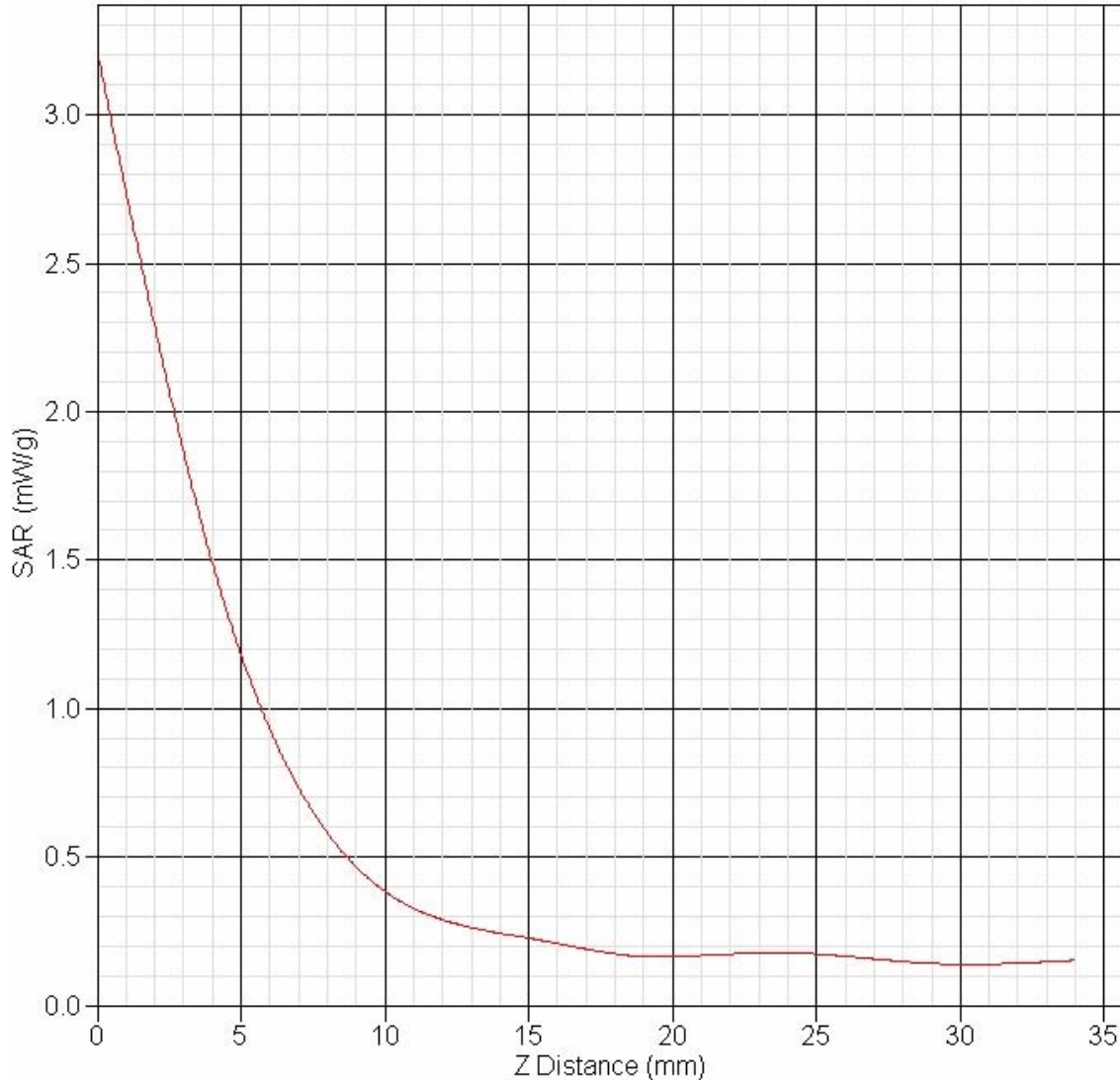
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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 5.7             | rectangular              | •3      | 1                | 1                 | 3.2                             | 3.2                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.1             | normal                   | 1       | 0.7              | 0.5               | 0.8                             | 0.6                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 3.1             | normal                   | 1       | 0.6              | 0.5               | 1.9                             | 1.5                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 12.6                            | 12.5                             |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 25.2                            | 25                               |



## SAR-Z Axis at Hotspot x:30.06 y:-0.10



## SAR Test Report

Report Date : 09-Sep-2007  
 By Operator : 123  
 Measurement Date : 09-Sep-2007  
 Starting Time : 09-Sep-2007 12:12:04 PM  
 End Time : 09-Sep-2007 12:36:34 PM  
 Scanning Time : 1470 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5800.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.446 W/kg  
 Power Drift-Finish : 0.435 W/kg  
 Power Drift (%) : -2.585  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : System Default  
 Location : Center  
 Description : SD

Tissue Data  
 Type : BODY  
 Serial No. : 5800  
 Frequency : 5800.00 MHz  
 Last Calib. Date : 08-Sep-2007  
 Temperature : 21.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 50.00 RH%  
 Epsilon : 45.77 F/m  
 Sigma : 6.11 S/m  
 Density : 1000.00 kg/cu. m



## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5800.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.01  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

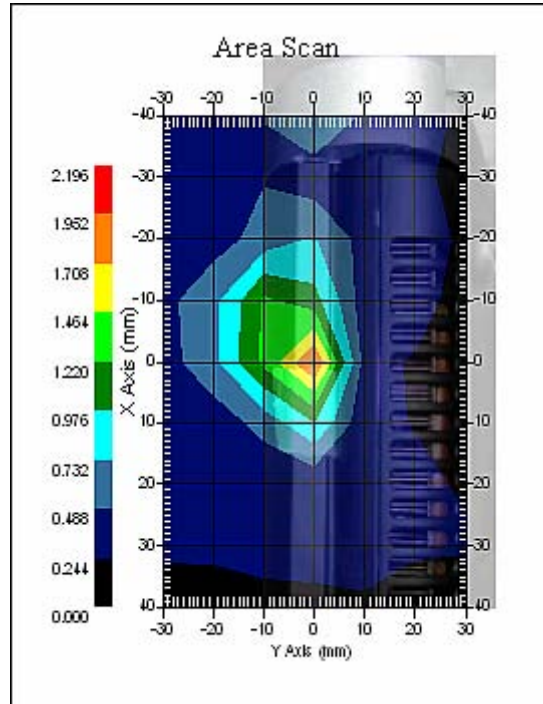
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 21.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 09-Sep-2007  
 Set-up Time : 11:19:08 AM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : High







1 gram SAR value : 0.446 W/kg  
 Zoom Scan Peak SAR : 3.523 W/kg





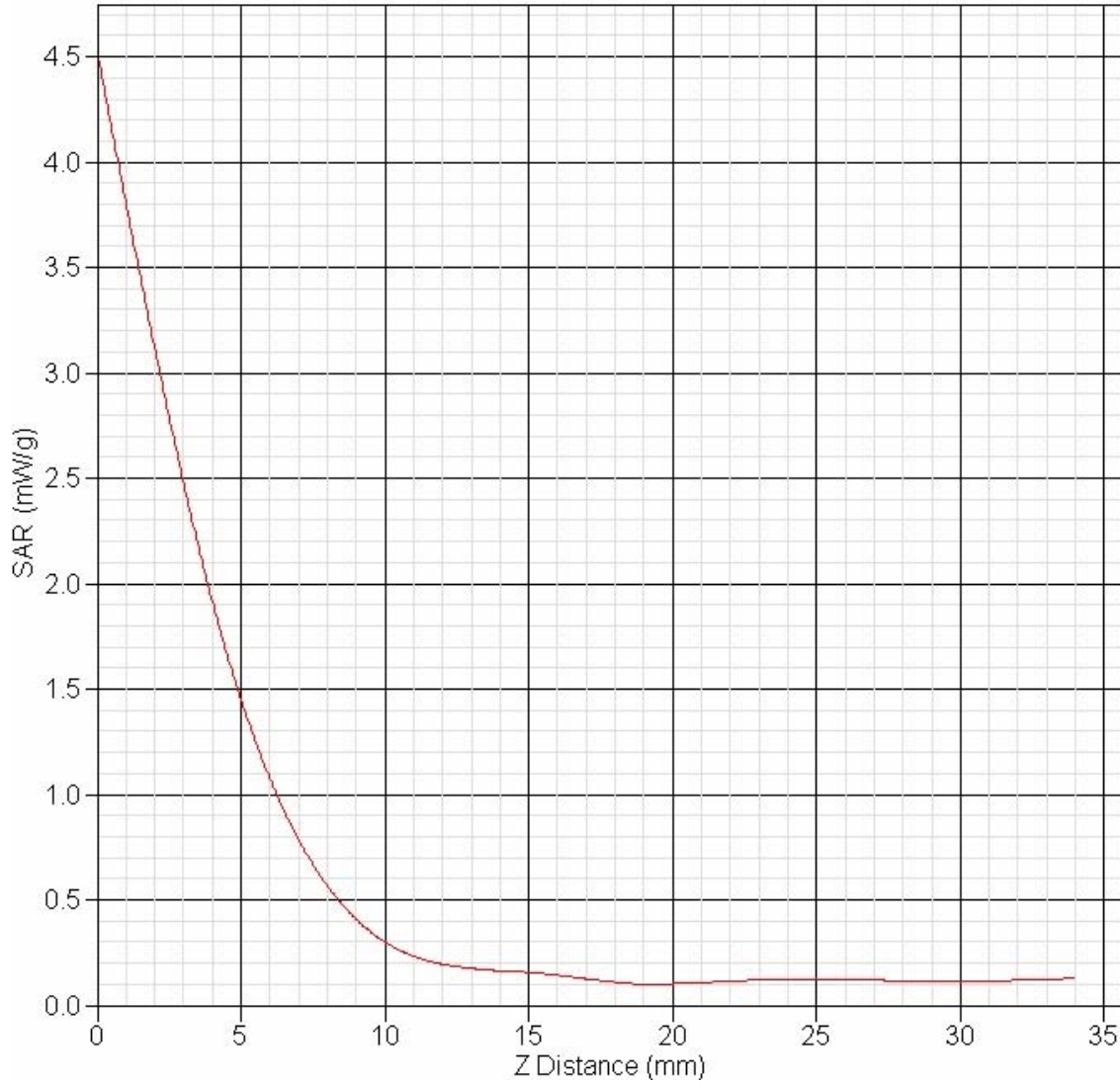
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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                            | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|--|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                               |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                   | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                           | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                  | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity  | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                  | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                              | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                    | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                 | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                             | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                           | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                      |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell  | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                    | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                          | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                        | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                            | 2.6             | rectangular              | •3      | 1                | 1                 | 1.5                             | 1.5                              |
| Phantom and Setup                                |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty(shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity(target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity(meas.)                       | 1.8             | normal                   | 1       | 0.7              | 0.5               | 1.3                             | 0.9                              |
| Liquid Permittivity(target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity(meas.)                       | 5.0             | normal                   | 1       | 0.6              | 0.5               | 3.0                             | 2.5                              |
| Combined Uncertainty                             |                 | RSS                      |         |                  |                   | 11.2                            | 11.0                             |
| Combined Uncertainty (coverage factor=2)         |                 | Normal (k=2)             |         |                  |                   | 22.4                            | 22.0                             |



## SAR-Z Axis at Hotspot x:10.27 y:-0.13



## SAR Test Report

Report Date : 09-Sep-2007  
 By Operator : 123  
 Measurement Date : 09-Sep-2007  
 Starting Time : 09-Sep-2007 02:29:08 PM  
 End Time : 09-Sep-2007 02:53:22 PM  
 Scanning Time : 1454 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5800.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.392 W/kg  
 Power Drift-Finish : 0.381 W/kg  
 Power Drift (%) : -2.791  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : System Default  
 Location : Center  
 Description : SD

Tissue Data  
 Type : BODY  
 Serial No. : 5800  
 Frequency : 5800.00 MHz  
 Last Calib. Date : 08-Sep-2007  
 Temperature : 21.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 50.00 RH%  
 Epsilon : 45.77 F/m  
 Sigma : 6.11 S/m  
 Density : 1000.00 kg/cu. m



## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5800.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.01  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

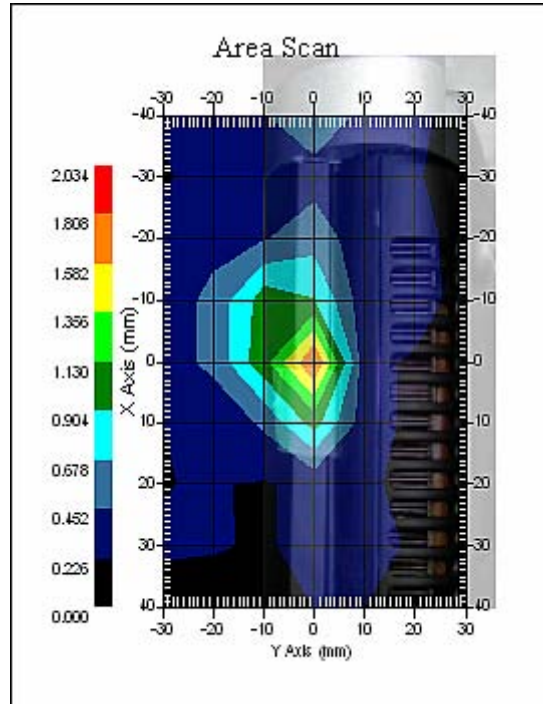
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 21.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 09-Sep-2007  
 Set-up Time : 11:19:08 AM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : High







1 gram SAR value : 0.392 W/kg  
 Zoom Scan Peak SAR : 2.853 W/kg





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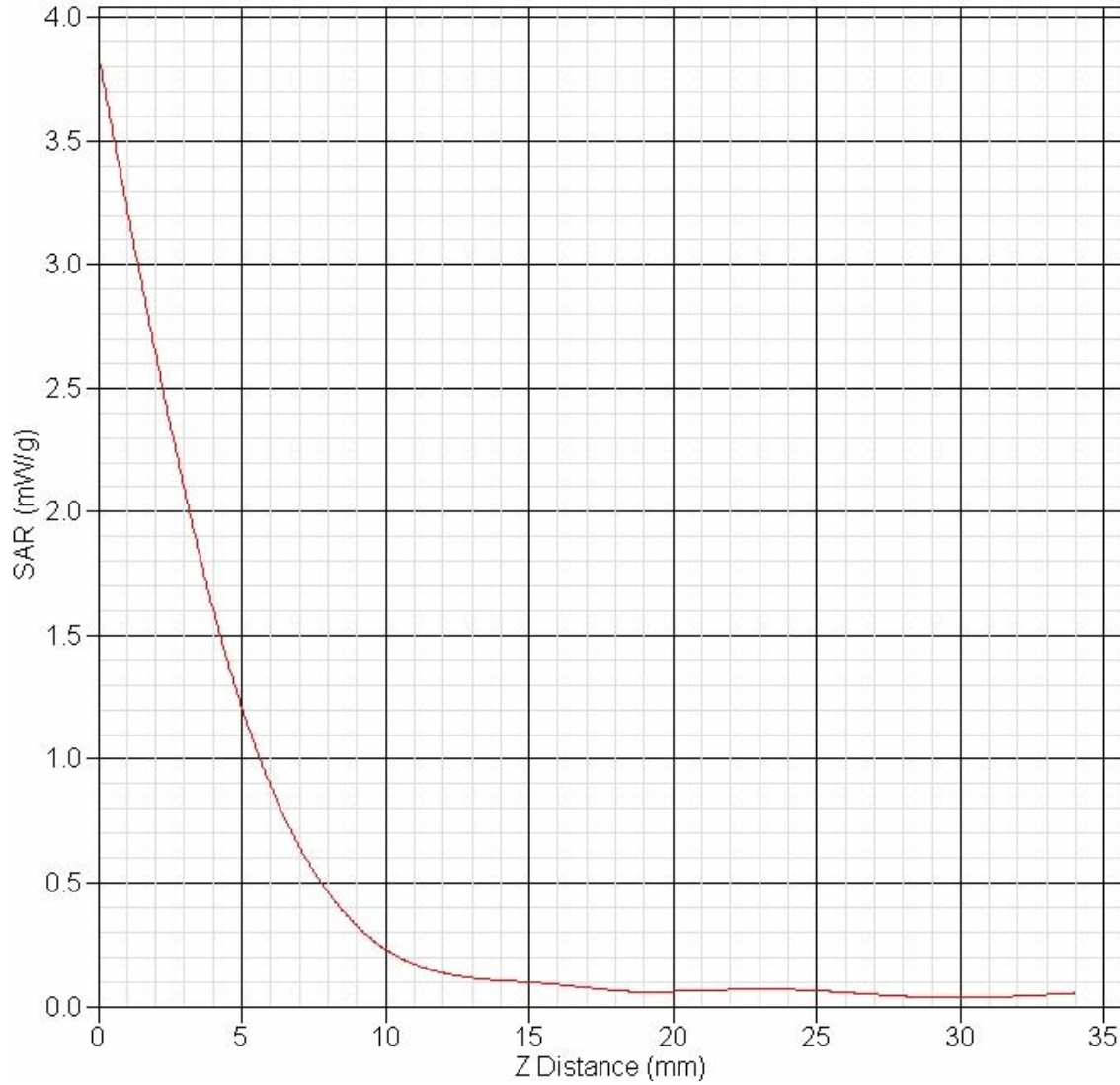
**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$ (1-g)  | $c_i^1$ (10-g) | Standard Uncertainty (1-g) % | Standard Uncertainty (10-g) % |
|---|-----------------|--------------------------|---------|----------------|----------------|------------------------------|-------------------------------|
| Measurement System                                |                 |                          |         |                |                |                              |                               |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1              | 1              | 3.5                          | 3.5                           |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$ | $(1-cp)^{1/2}$ | 1.5                          | 1.5                           |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp            | •cp            | 4.4                          | 4.4                           |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1              | 1              | 0.6                          | 0.6                           |
| Linearity   | 4.7             | rectangular              | •3      | 1              | 1              | 2.7                          | 2.7                           |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1              | 1              | 0.6                          | 0.6                           |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1              | 1              | 1.0                          | 1.0                           |
| Response Time                                     | 0.8             | rectangular              | •3      | 1              | 1              | 0.5                          | 0.5                           |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1              | 1              | 1.0                          | 1.0                           |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1              | 1              | 1.7                          | 1.7                           |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1              | 1              | 0.2                          | 0.2                           |
| Restriction                                       |                 |                          |         |                |                |                              |                               |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1              | 1              | 1.7                          | 1.7                           |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1              | 1              | 2.1                          | 2.1                           |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1              | 1              | 4.0                          | 4.0                           |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1              | 1              | 2.0                          | 2.0                           |
| Drift of Output Power                             | 2.8             | rectangular              | •3      | 1              | 1              | 1.6                          | 1.6                           |
| Phantom and Setup                                 |                 |                          |         |                |                |                              |                               |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1              | 1              | 2.0                          | 2.0                           |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7            | 0.5            | 2.0                          | 1.4                           |
| Liquid Conductivity (meas.)                       | 1.8             | normal                   | 1       | 0.7            | 0.5            | 1.3                          | 0.9                           |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6            | 0.5            | 1.7                          | 1.4                           |
| Liquid Permittivity (meas.)                       | 5.0             | normal                   | 1       | 0.6            | 0.5            | 3.0                          | 2.5                           |
| Combined Uncertainty                              |                 | RSS                      |         |                |                | 11.5                         | 11.3                          |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                |                | 23.0                         | 22.6                          |



## SAR-Z Axis

at Hotspot x:10.06 y:-0.13



## SAR Test Report

Report Date : 09-Sep-2007  
 By Operator : 123  
 Measurement Date : 09-Sep-2007  
 Starting Time : 09-Sep-2007 04:56:14 PM  
 End Time : 09-Sep-2007 05:20:07 PM  
 Scanning Time : 1433 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5800.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.400 W/kg  
 Power Drift-Finish: 0.397 W/kg  
 Power Drift (%) : -1.315  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : System Default  
 Location : Center  
 Description : SD

Tissue Data  
 Type : BODY  
 Serial No. : 5800  
 Frequency : 5800.00 MHz  
 Last Calib. Date : 08-Sep-2007  
 Temperature : 21.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 50.00 RH%  
 Epsilon : 45.77 F/m  
 Sigma : 6.11 S/m  
 Density : 1000.00 kg/cu. m



## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5800.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.01  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

## Measurement Data

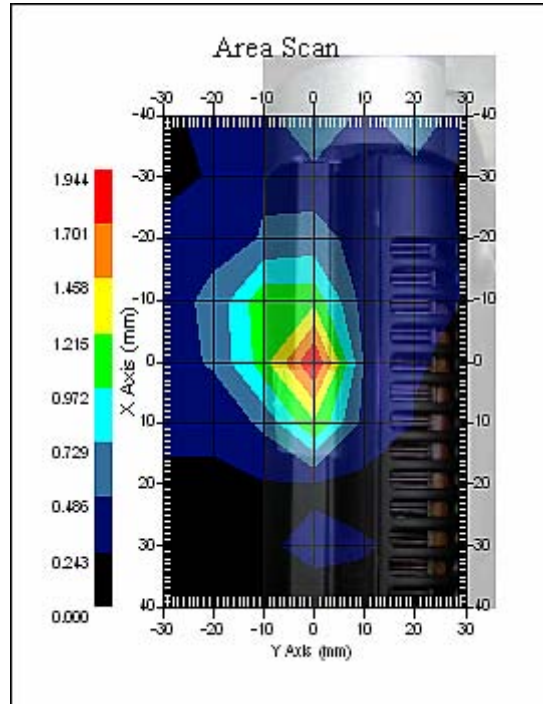
Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 21.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 09-Sep-2007  
 Set-up Time : 11:19:08 AM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : High







1 gram SAR value : 0.442 W/kg  
 Zoom Scan Peak SAR : 2.233 W/kg







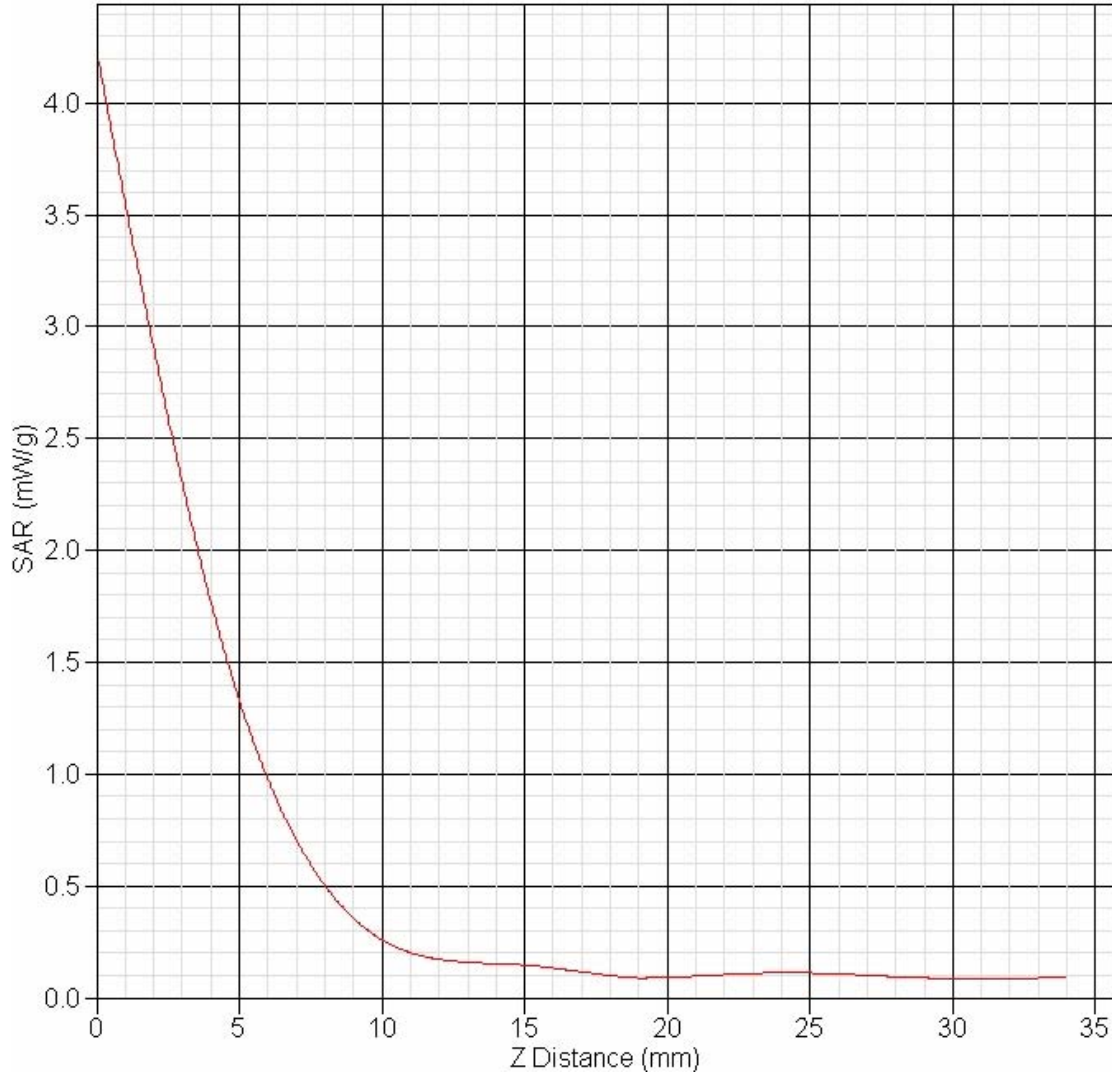
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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 1.3             | rectangular              | •3      | 1                | 1                 | 0.7                             | 0.7                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.8             | normal                   | 1       | 0.7              | 0.5               | 1.3                             | 0.9                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 5.0             | normal                   | 1       | 0.6              | 0.5               | 3.0                             | 2.5                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 10.7                            | 10.6                             |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 21.4                            | 21.2                             |



## SAR-Z Axis at Hotspot x:10.04 y:-0.13



## SAR Test Report

Report Date : 10-Sep-2007  
 By Operator : 123  
 Measurement Date : 10-Sep-2007  
 Starting Time : 10-Sep-2007 07:56:01 AM  
 End Time : 10-Sep-2007 08:17:52 AM  
 Scanning Time : 1311 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5800.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.243 W/kg  
 Power Drift-Finish : 0.250 W/kg  
 Power Drift (%) : -3.112  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 5800  
 Frequency : 5800.00 MHz  
 Last Calib. Date : 08-Sep-2007  
 Temperature : 21.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 50.00 RH%  
 Epsilon : 45.77 F/m  
 Sigma : 6.11 S/m  
 Density : 1000.00 kg/cu. m



## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5800.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.01  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

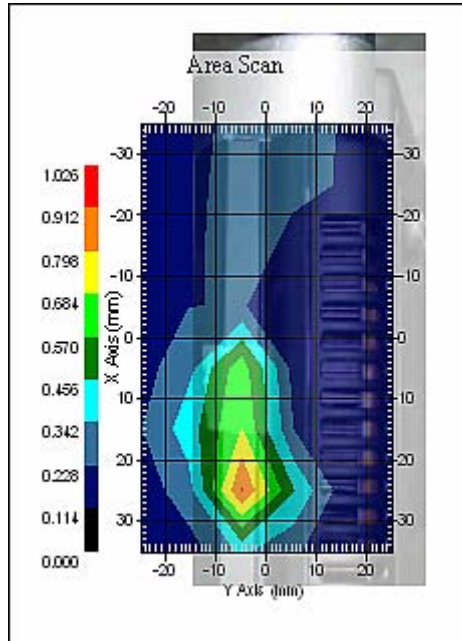
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 21.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 10-Sep-2007  
 Set-up Time : 7:47:06 AM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Mid





1 gram SAR value : 0.229 W/kg  
 Zoom Scan Peak SAR : 1.862 W/kg





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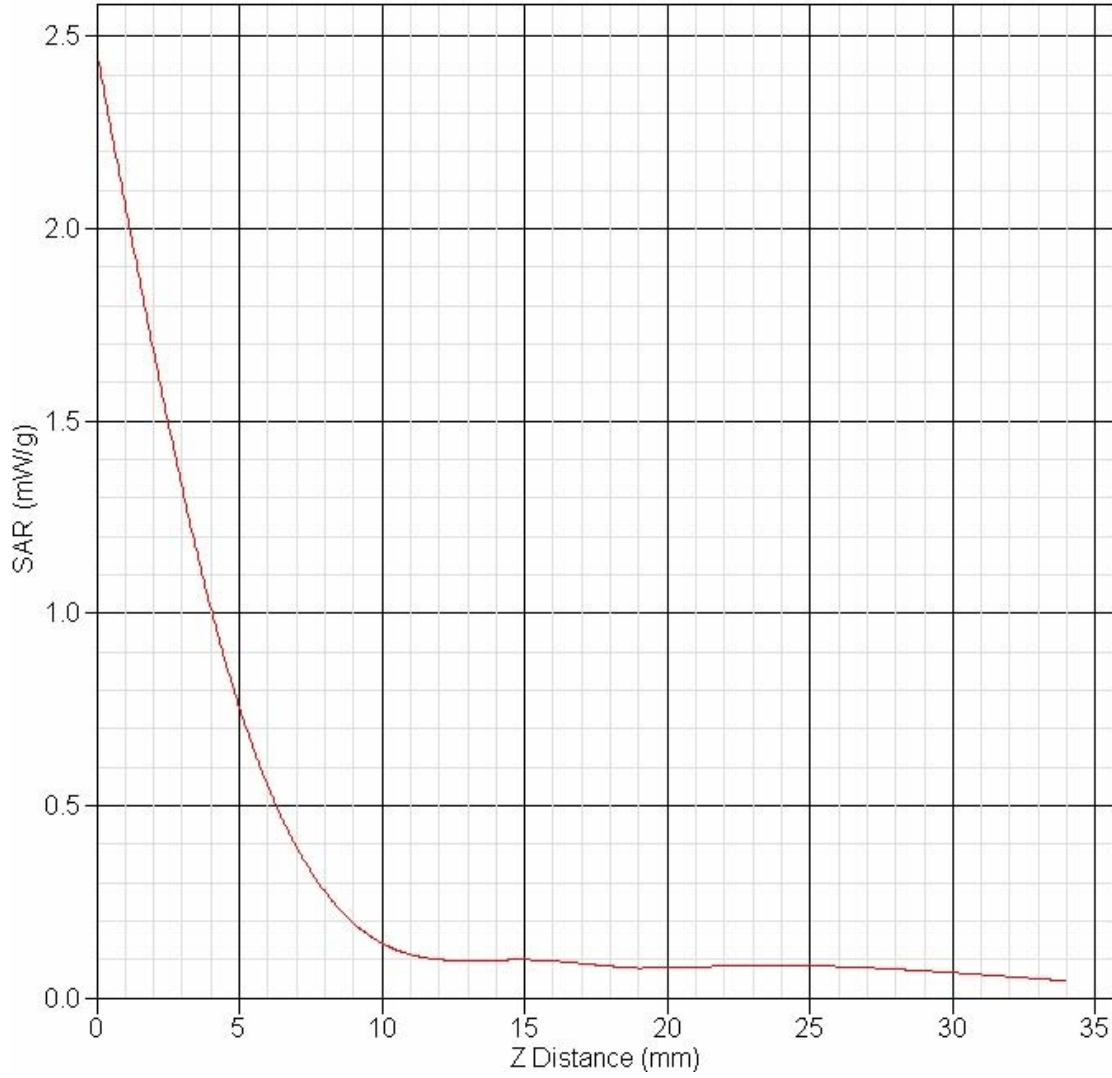
**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 3.1             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.8             | normal                   | 1       | 0.7              | 0.5               | 1.3                             | 0.9                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 5.0             | normal                   | 1       | 0.6              | 0.5               | 3.0                             | 2.5                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 10.7                            | 10.6                             |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 21.4                            | 21.2                             |





## SAR-Z Axis at Hotspot x:25.30 y:-0.10



## SAR Test Report

Report Date : 10-Sep-2007  
 By Operator : 123  
 Measurement Date : 10-Sep-2007  
 Starting Time : 10-Sep-2007 09:12:45 AM  
 End Time : 10-Sep-2007 09:34:26 AM  
 Scanning Time : 1301 secs

Product Data  
 Device Name : Dell Hawk  
 Serial No. : PS069891  
 Type : Other  
 Model : HAW-E2-C1  
 Frequency : 5800.00 MHz  
 Max. Transmit Pwr : 0.05 W  
 Drift Time : 0 min(s)  
 Length : 107 mm  
 Width : 46 mm  
 Depth : 0 mm  
 Antenna Type : Internal  
 Orientation : Touch  
 Power Drift-Start : 0.275 W/kg  
 Power Drift-Finish : 0.290 W/kg  
 Power Drift (%) : 3.219  
 Picture : C:\alsas\bitmap\Dell-Hawk-Back.bmp

Phantom Data  
 Name : APREL-Uni  
 Type : Uni-Phantom  
 Size (mm) : 280 x 280 x 200  
 Serial No. : User Define  
 Location : Center  
 Description : U

Tissue Data  
 Type : BODY  
 Serial No. : 5800  
 Frequency : 5800.00 MHz  
 Last Calib. Date : 08-Sep-2007  
 Temperature : 21.00 °C  
 Ambient Temp. : 20.00 °C  
 Humidity : 50.00 RH%  
 Epsilon : 45.77 F/m  
 Sigma : 6.11 S/m  
 Density : 1000.00 kg/cu. m

## Probe Data

Name : APREL  
 Model : E-020  
 Type : E-Field Triangle  
 Serial No. : 225  
 Last Calib. Date : 03-May-2007  
 Frequency : 5800.00 MHz  
 Duty Cycle Factor: 1  
 Conversion Factor: 4.01  
 Probe Sensitivity: 1.20 1.20 1.20  $\mu\text{V}/(\text{V}/\text{m})^2$   
 Compression Point: 95.00 mV  
 Offset : 1.56 mm

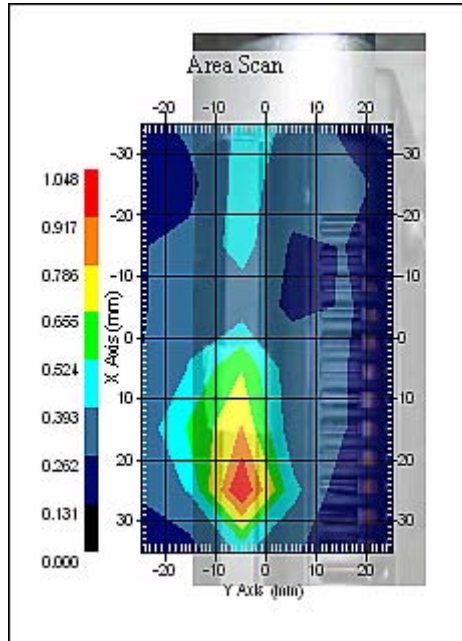
## Measurement Data

Crest Factor : 1  
 Scan Type : Complete  
 Tissue Temp. : 21.00 °C  
 Ambient Temp. : 21.00 °C  
 Set-up Date : 10-Sep-2007  
 Set-up Time : 9:11:18 AM  
 Area Scan : 7x6x1 : Measurement x=10mm, y=10mm, z=2mm  
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

## Other Data

DUT Position : Touch  
 Separation : 0  
 Channel : Low





1 gram SAR value : 0.264 W/kg  
 Zoom Scan Peak SAR : 2.632 W/kg





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**Exposure Assessment Measurement Uncertainty**

| Source of Uncertainty                             | Tolerance Value | Probability Distribution | Divisor | $c_i^1$<br>(1-g) | $c_i^1$<br>(10-g) | Standard Uncertainty<br>(1-g) % | Standard Uncertainty<br>(10-g) % |
|---|-----------------|--------------------------|---------|------------------|-------------------|---------------------------------|----------------------------------|
| Measurement System                                |                 |                          |         |                  |                   |                                 |                                  |
| Probe Calibration                                 | 3.5             | normal                   | 1       | 1                | 1                 | 3.5                             | 3.5                              |
| Axial Isotropy                                    | 3.7             | rectangular              | •3      | $(1-cp)^{1/2}$   | $(1-cp)^{1/2}$    | 1.5                             | 1.5                              |
| Hemispherical Isotropy                            | 10.9            | rectangular              | •3      | •cp              | •cp               | 4.4                             | 4.4                              |
| Boundary Effect                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Linearity   | 4.7             | rectangular              | •3      | 1                | 1                 | 2.7                             | 2.7                              |
| Detection Limit                                   | 1.0             | rectangular              | •3      | 1                | 1                 | 0.6                             | 0.6                              |
| Readout Electronics                               | 1.0             | normal                   | 1       | 1                | 1                 | 1.0                             | 1.0                              |
| Response Time                                     | 0.8             | rectangular              | •3      | 1                | 1                 | 0.5                             | 0.5                              |
| Integration Time                                  | 1.7             | rectangular              | •3      | 1                | 1                 | 1.0                             | 1.0                              |
| RF Ambient Condition                              | 3.0             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Probe Positioner Mech.                            | 0.4             | rectangular              | •3      | 1                | 1                 | 0.2                             | 0.2                              |
| Restriction                                       |                 |                          |         |                  |                   |                                 |                                  |
| Probe Positioning with respect to Phantom Shell   | 2.9             | rectangular              | •3      | 1                | 1                 | 1.7                             | 1.7                              |
| Extrapolation and Integration                     | 3.7             | rectangular              | •3      | 1                | 1                 | 2.1                             | 2.1                              |
| Test Sample Positioning                           | 4.0             | normal                   | 1       | 1                | 1                 | 4.0                             | 4.0                              |
| Device Holder Uncertainty                         | 2.0             | normal                   | 1       | 1                | 1                 | 2.0                             | 2.0                              |
| Drift of Output Power                             | 3.2             | rectangular              | •3      | 1                | 1                 | 1.8                             | 1.8                              |
| Phantom and Setup                                 |                 |                          |         |                  |                   |                                 |                                  |
| Phantom Uncertainty (shape & thickness tolerance) | 3.4             | rectangular              | •3      | 1                | 1                 | 2.0                             | 2.0                              |
| Liquid Conductivity (target)                      | 5.0             | rectangular              | •3      | 0.7              | 0.5               | 2.0                             | 1.4                              |
| Liquid Conductivity (meas.)                       | 1.8             | normal                   | 1       | 0.7              | 0.5               | 1.3                             | 0.9                              |
| Liquid Permittivity (target)                      | 5.0             | rectangular              | •3      | 0.6              | 0.5               | 1.7                             | 1.4                              |
| Liquid Permittivity (meas.)                       | 5.0             | normal                   | 1       | 0.6              | 0.5               | 3.0                             | 2.5                              |
| Combined Uncertainty                              |                 | RSS                      |         |                  |                   | 12.1                            | 11.9                             |
| Combined Uncertainty (coverage factor=2)          |                 | Normal (k=2)             |         |                  |                   | 24.2                            | 23.8                             |



## SAR-Z Axis

at Hotspot x:30.08 y:-0.09

