



SAR & HAC Instruments for Wireless • Consulting • Research • Standards • Compliance • Training

SAR Test Report

Report Date : 04-Sep-2008
 By Operator : 123
 Measurement Date : 04-Sep-2008
 Starting Time : 04-Sep-2008 09:54:38 AM
 End Time : 04-Sep-2008 10:09:43 AM
 Scanning Time : 905 secs

Product Data
 Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : ALS-D-2450-S-2
 Frequency : 2450.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 180 mm
 Depth : 30.4 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.493 W/kg
 Power Drift-Finish : 0.488 W/kg
 Power Drift (%) : -1.128
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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. : 2450_B
 Frequency : 2450.00 MHz
 Last Calib. Date : 03-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 40.00 RH%
 Epsilon : 51.73 F/m
 Sigma : 1.94 S/m
 Density : 1000.00 kg/cu. m





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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: 4.01
 Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V/m})^2$
 Compression Point: 95.00 mV
 Offset : 1.56 mm

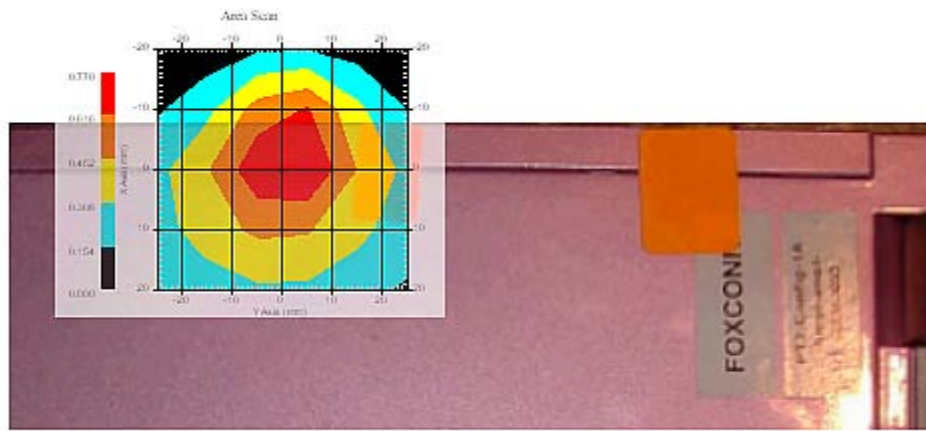
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 04-Sep-2008
 Set-up Time : 9:54:11 AM
 Area Scan : 5x6x1 : 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





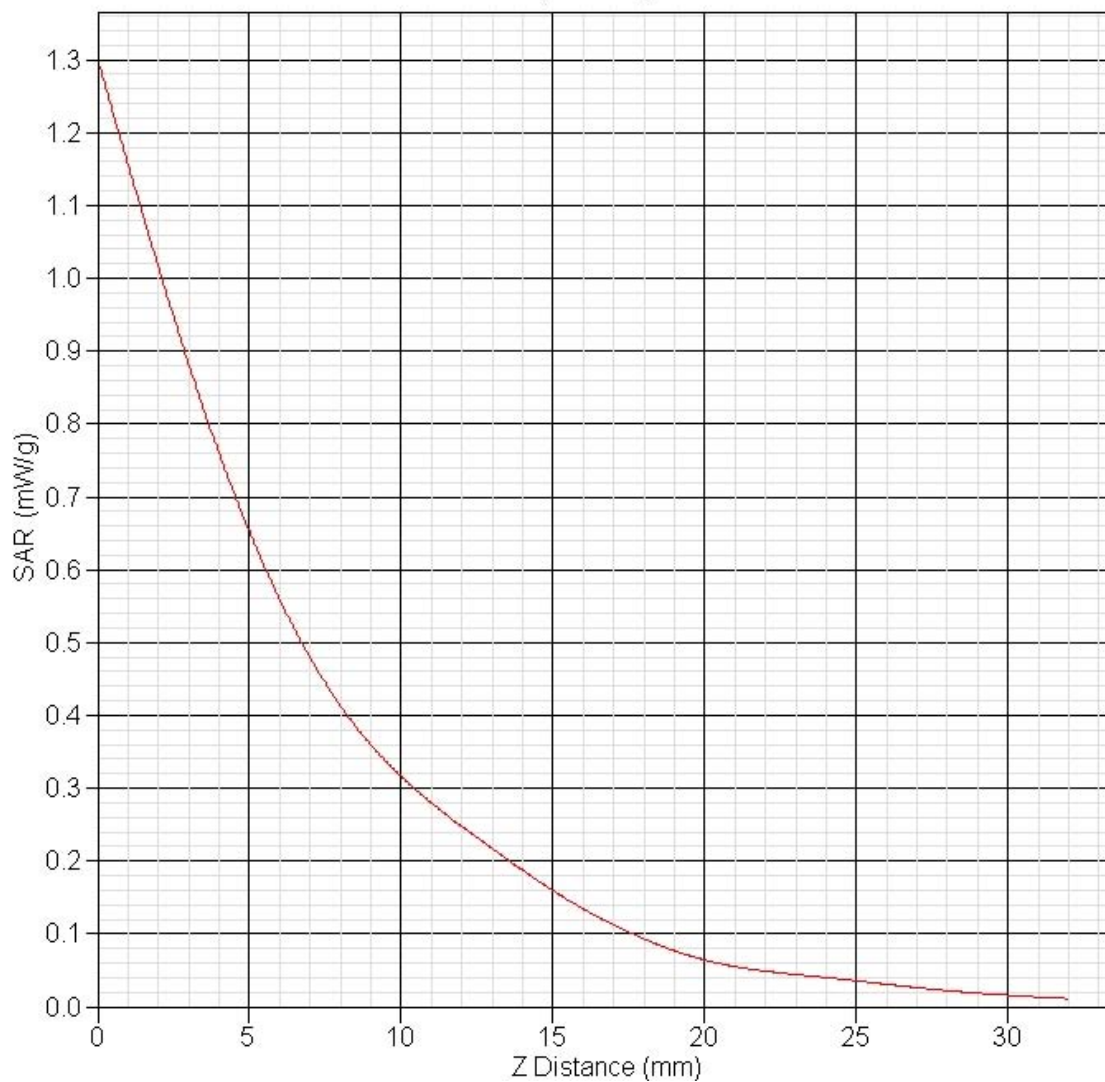
1 gram SAR value : 0.620 W/kg
Zoom Scan Peak SAR : 1.301 W/kg

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	1.3	rectangular	•3	1	1	1.1	1.1
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	0.5	normal	1	0.7	0.5	0.4	0.3
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	1.8	normal	1	0.6	0.5	1.1	0.9
Combined Uncertainty		RSS				8.3	7.1
Combined Uncertainty (coverage factor=2)		Normal (k=2)				16.6	14.2

SAR-Z Axis

at Hotspot $x:0.07$ $y:-3.12$





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SAR Test Report

Report Date : 04-Sep-2008
 By Operator : 123
 Measurement Date : 04-Sep-2008
 Starting Time : 04-Sep-2008 09:34:28 AM
 End Time : 04-Sep-2008 09:49:22 AM
 Scanning Time : 894 secs

Product Data
 Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : ALS-D-2450-S-2
 Frequency : 2450.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 180 mm
 Depth : 30.4 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.439 W/kg
 Power Drift-Finish : 0.412 W/kg
 Power Drift (%) : -4.726
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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. : 2450_B
 Frequency : 2450.00 MHz
 Last Calib. Date : 03-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 40.00 RH%
 Epsilon : 51.73 F/m
 Sigma : 1.94 S/m
 Density : 1000.00 kg/cu. m





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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: 4.01
 Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V/m})^2$
 Compression Point: 95.00 mV
 Offset : 1.56 mm

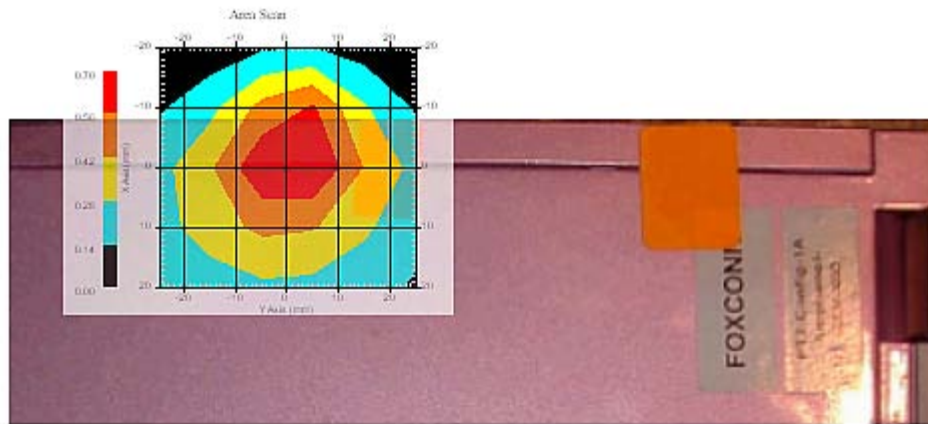
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 04-Sep-2008
 Set-up Time : 9:34:00 AM
 Area Scan : 5x6x1 : 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





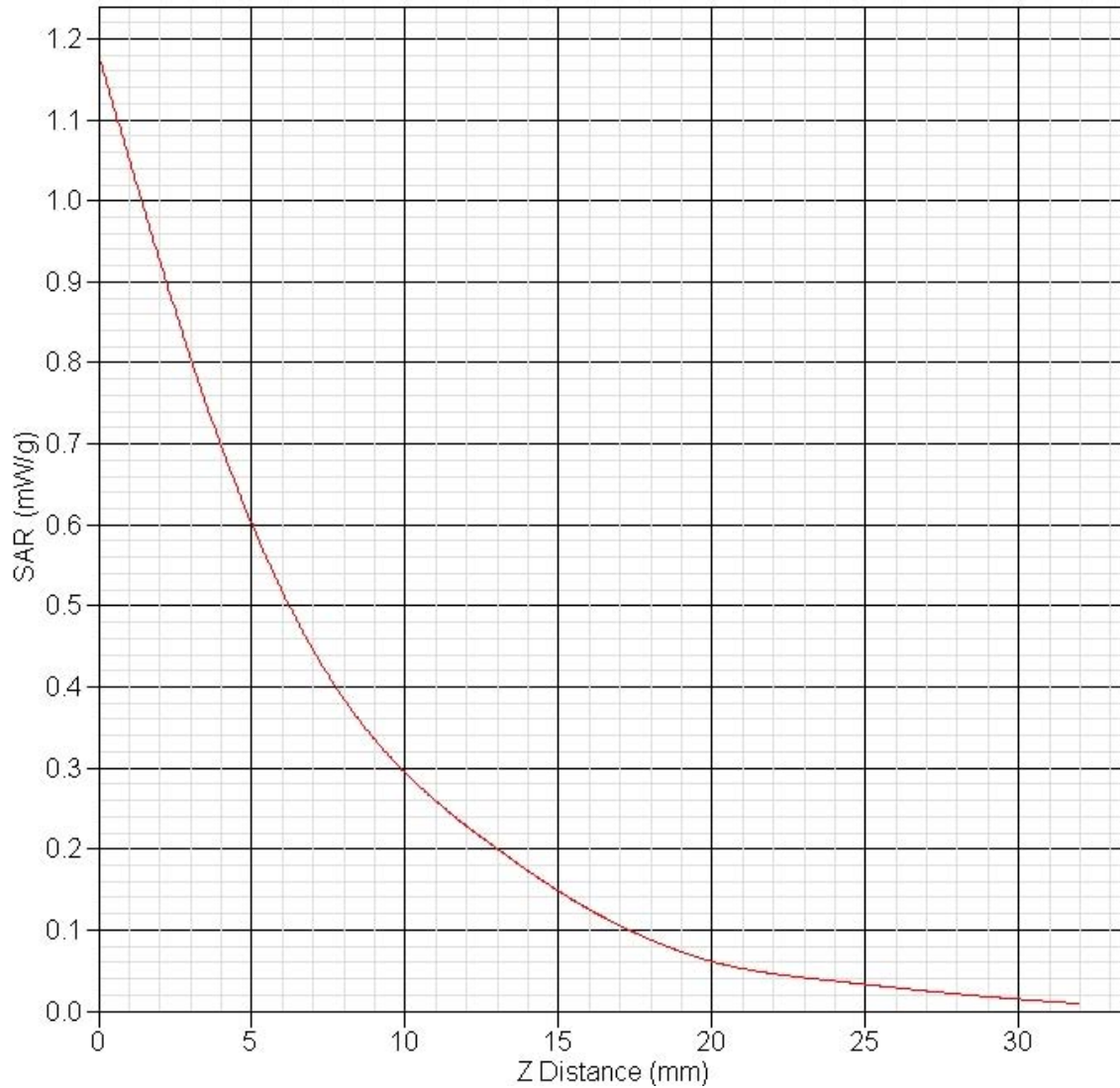
1 gram SAR value : 0.550 W/kg
Zoom Scan Peak SAR : 1.181 W/kg

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	4.7	rectangular	•3	1	1	2.2	2.2
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	0.5	normal	1	0.7	0.5	0.4	0.3
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	1.8	normal	1	0.6	0.5	1.1	0.9
Combined Uncertainty		RSS				9.4	8.2
Combined Uncertainty (coverage factor=2)		Normal (k=2)				18.8	16.4

SAR-Z Axis

at Hotspot x:0.08 y:-3.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 09:45:26 AM
 End Time : 02-Sep-2008 11:07:39 AM
 Scanning Time : 1333 secs

Product Data

Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5200.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.282 W/kg
 Power Drift-Finish : 0.295 W/kg
 Power Drift (%) : 4.40
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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. : 5200-B
 Frequency : 5200.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 21.00 °C
 Humidity : 40.00 RH%
 Epsilon : 48.20 F/m
 Sigma : 5.14 S/m
 Density : 1000.00 kg/cu. m





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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: 3.2
 Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V/m})^2$
 Compression Point: 95.00 mV
 Offset : 1.56 mm

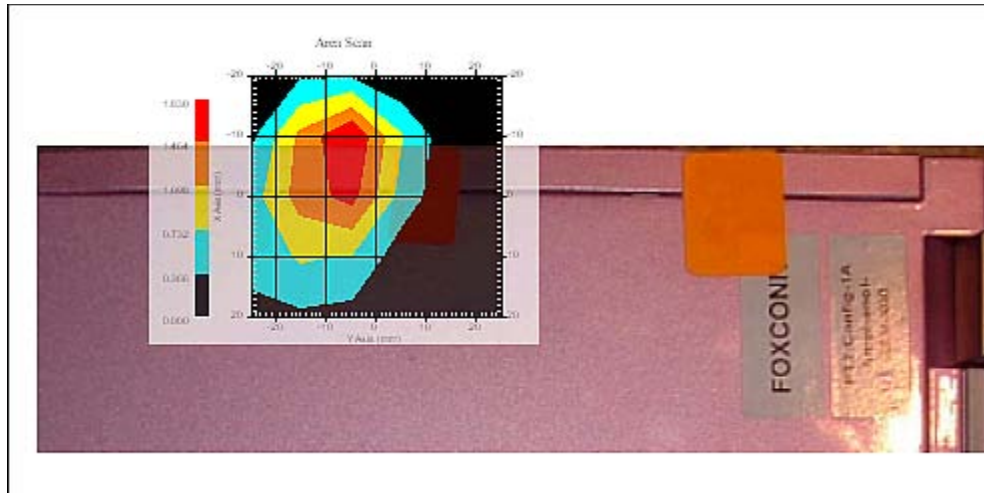
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 02-Sep-2008
 Set-up Time : 10:44:24 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Low





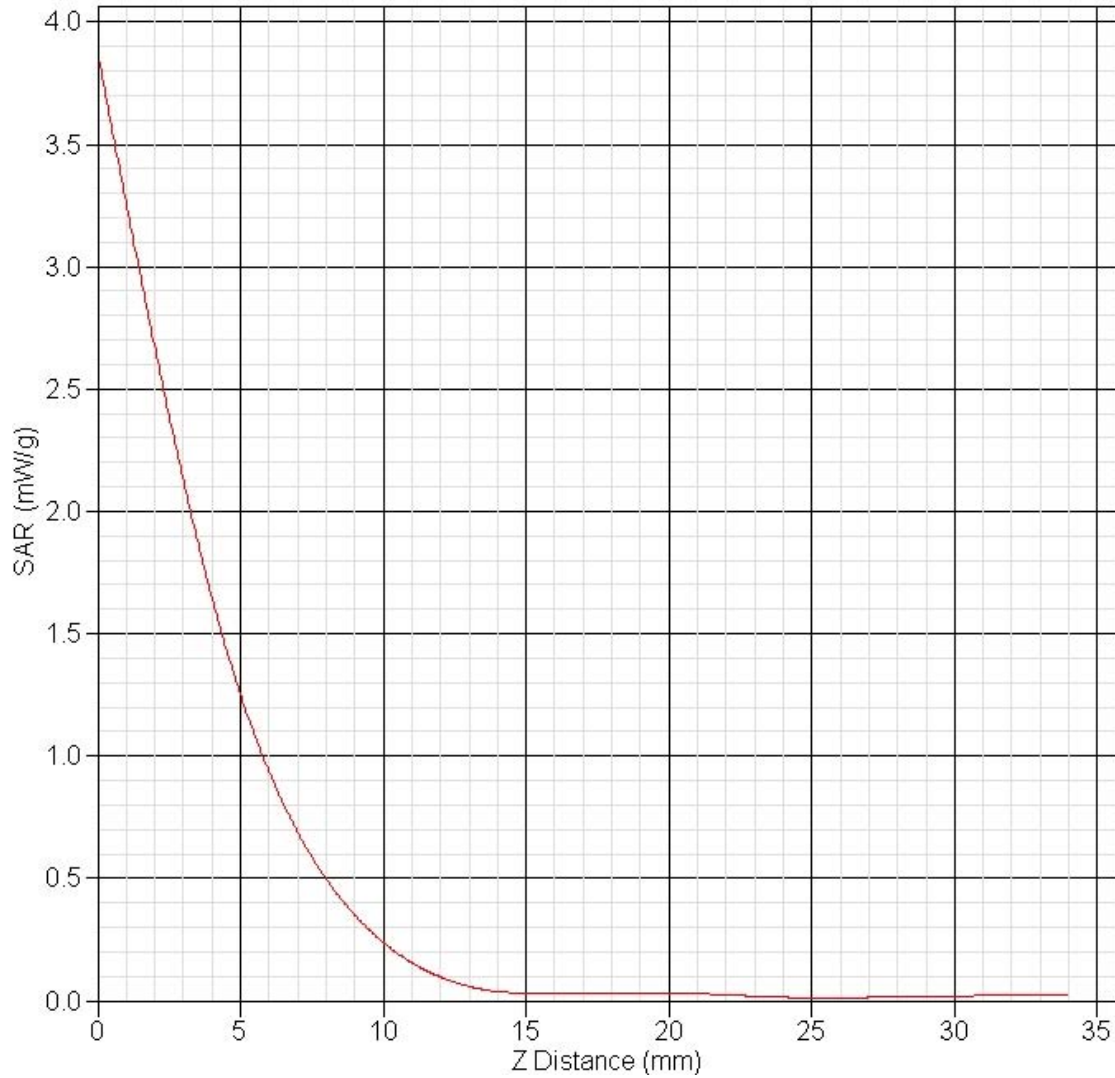
1 gram SAR value : 1.410 W/kg
 Zoom Scan Peak SAR : 3.873 W/kg

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	4.4	rectangular	•3	1	1	2.1	2.1
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	3.9	normal	1	0.7	0.5	2.7	2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	1.4	normal	1	0.6	0.5	0.9	0.7
Combined Uncertainty		RSS				11.4	9.6
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.8	19.2

SAR-Z Axis

at Hotspot x:-4.74 y:-10.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 12:08:07 PM
 End Time : 02-Sep-2008 01:29:22 PM
 Scanning Time : 1275 secs

Product Data

Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5200.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.276 W/kg
 Power Drift-Finish : 0.269 W/kg
 Power Drift (%) : -3.429
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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. : 5200-B
 Frequency : 5200.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 21.00 °C
 Humidity : 40.00 RH%
 Epsilon : 48.20 F/m
 Sigma : 5.14 S/m
 Density : 1000.00 kg/cu. m





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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: 3.2
 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

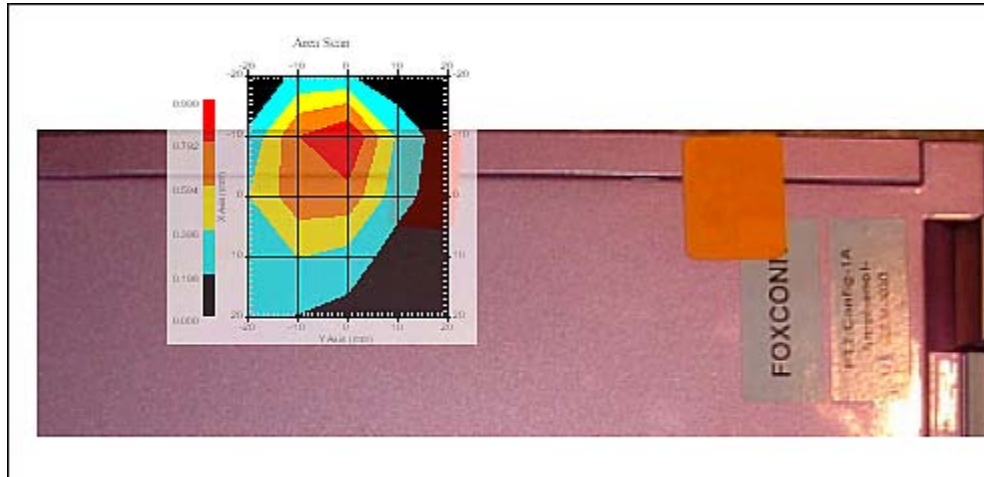
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 02-Sep-2008
 Set-up Time : 12:05:32 PM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Low





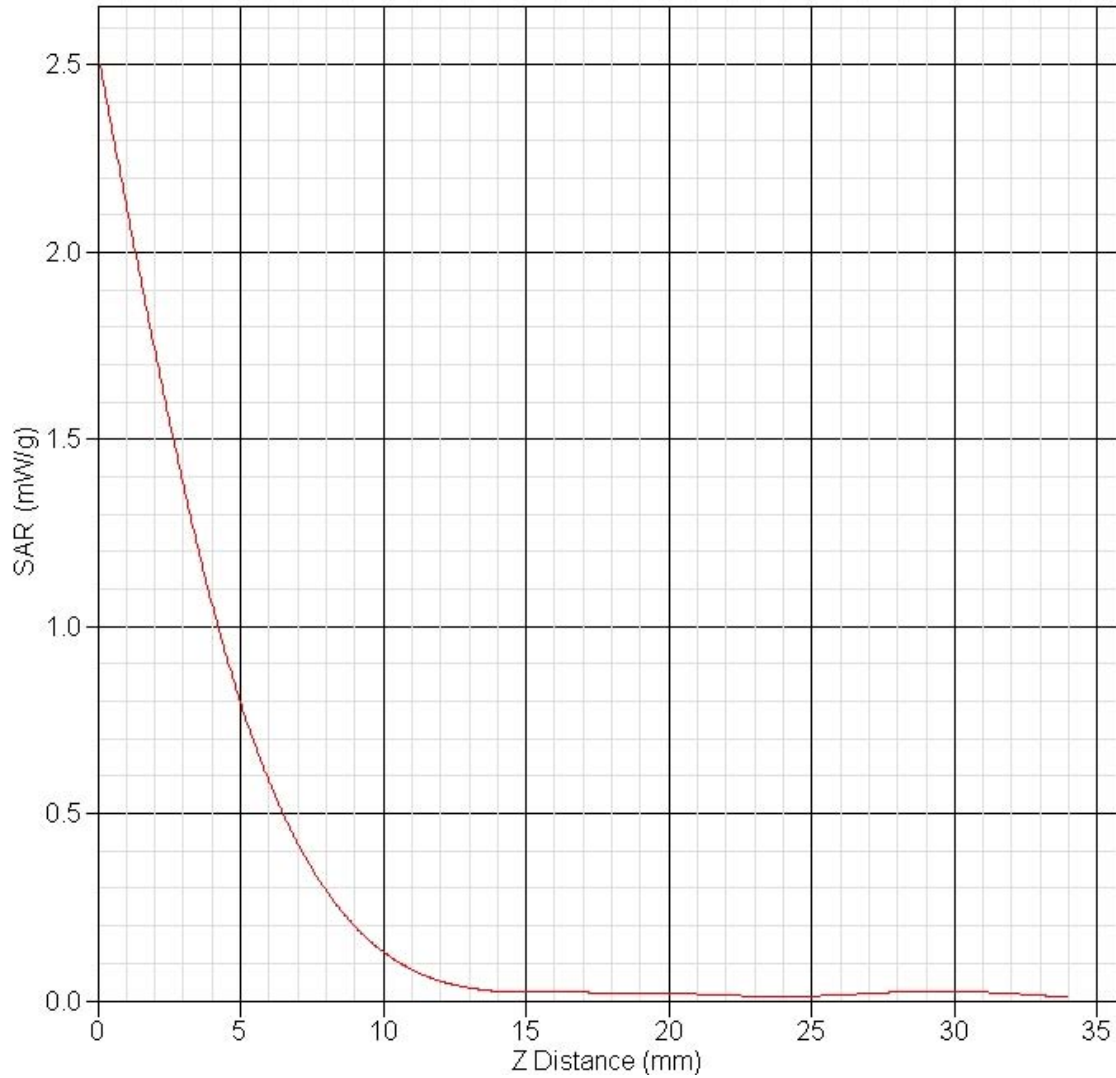
1 gram SAR value : 1.013 W/kg
Zoom Scan Peak SAR : 2.532 W/kg

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	3.4	rectangular	•3	1	1	1.8	1.8
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	3.9	normal	1	0.7	0.5	2.7	2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	1.4	normal	1	0.6	0.5	0.9	0.7
Combined Uncertainty		RSS				11.1	9.3
Combined Uncertainty (coverage factor=2)		Normal (k=2)				22.2	18.6

SAR-Z Axis

at Hotspot x:-4.94 y:-5.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 10:14:40 AM
 End Time : 02-Sep-2008 11:36:08 AM
 Scanning Time : 1288 secs

Product Data

Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5200.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.345 W/kg
 Power Drift-Finish : 0.336 W/kg
 Power Drift (%) : -2.246
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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. : 5200-B
 Frequency : 5200.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 21.00 °C
 Humidity : 40.00 RH%
 Epsilon : 48.20 F/m
 Sigma : 5.14 S/m
 Density : 1000.00 kg/cu. m





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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: 3.2
 Probe Sensitivity: 1.20 1.20 1.20 $\mu\text{V}/(\text{V/m})^2$
 Compression Point: 95.00 mV
 Offset : 1.56 mm

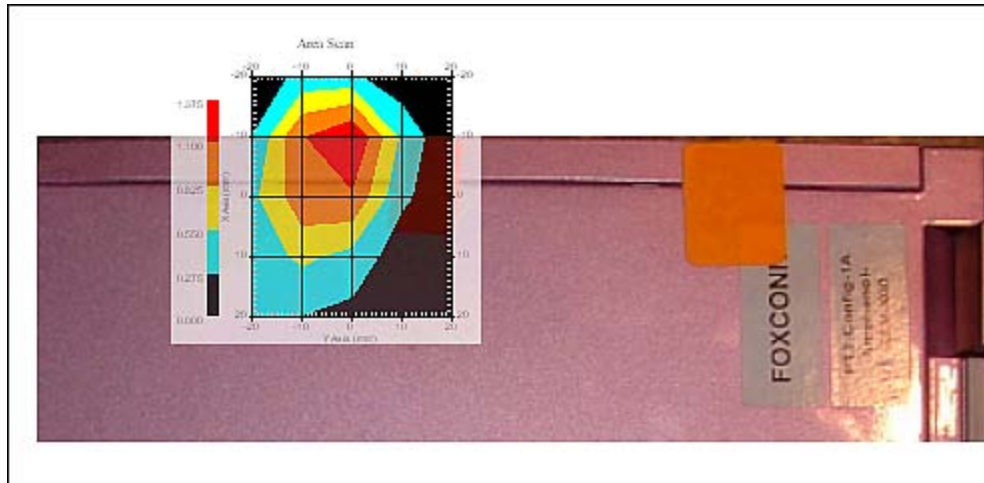
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 02-Sep-2008
 Set-up Time : 11:13:46 AM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Low





1 gram SAR value : 1.380 W/kg
Zoom Scan Peak SAR : 3.422 W/kg



SAR & HAC Instruments for Wireless • Consulting • Research • Standards • Compliance • Training

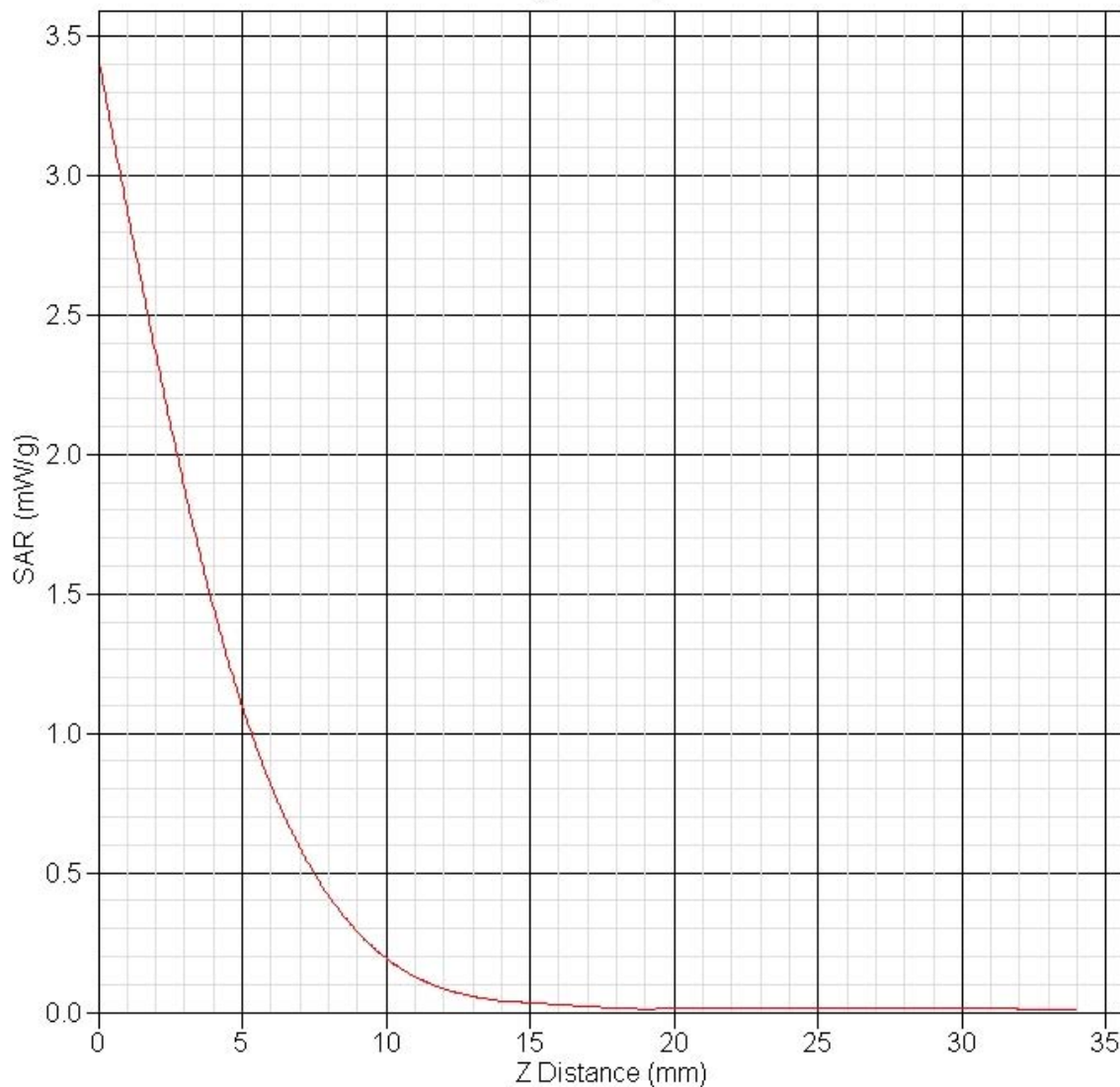
Exposure Assessment Measurement Uncertainty

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	2.2	rectangular	•3	1	1	1.2	1.2
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	3.9	normal	1	0.7	0.5	2.7	2
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	1.4	normal	1	0.6	0.5	0.9	0.7
Combined Uncertainty		RSS				10.5	8.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				21	17.4



SAR-Z Axis

at Hotspot x:-4.95 y:-0.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 11:36:52 PM
 End Time : 02-Sep-2008 12:58:01 AM
 Scanning Time : 1269 secs

Product Data
 Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5600.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.471 W/kg
 Power Drift-Finish : 0.462 W/kg
 Power Drift (%) : -1.860
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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. : 5600BB
 Frequency : 5600.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 40.00 RH%
 Epsilon : 47.02 F/m
 Sigma : 5.69 S/m
 Density : 1000.00 kg/cu. m





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Probe Data

Name : APREL
 Model : E-020
 Type : E-Field Triangle
 Serial No. : 225
 Last Calib. Date : 03-May-2007
 Frequency : 5600.00 MHz
 Duty Cycle Factor: 1
 Conversion Factor: 3.9
 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

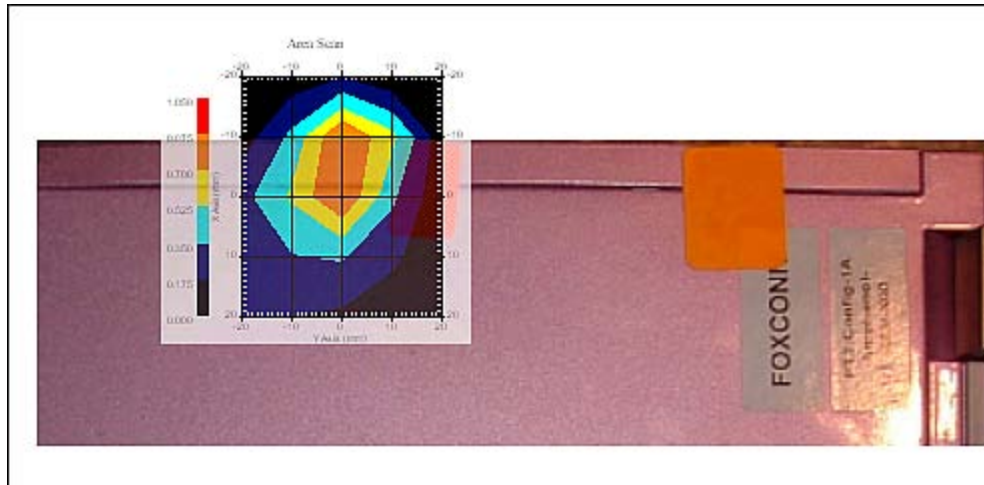
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 20.00 °C
 Set-up Date : 02-Sep-2008
 Set-up Time : 12:36:29 PM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid





1 gram SAR value : 0.984 W/kg
 Zoom Scan Peak SAR : 2.552 W/kg



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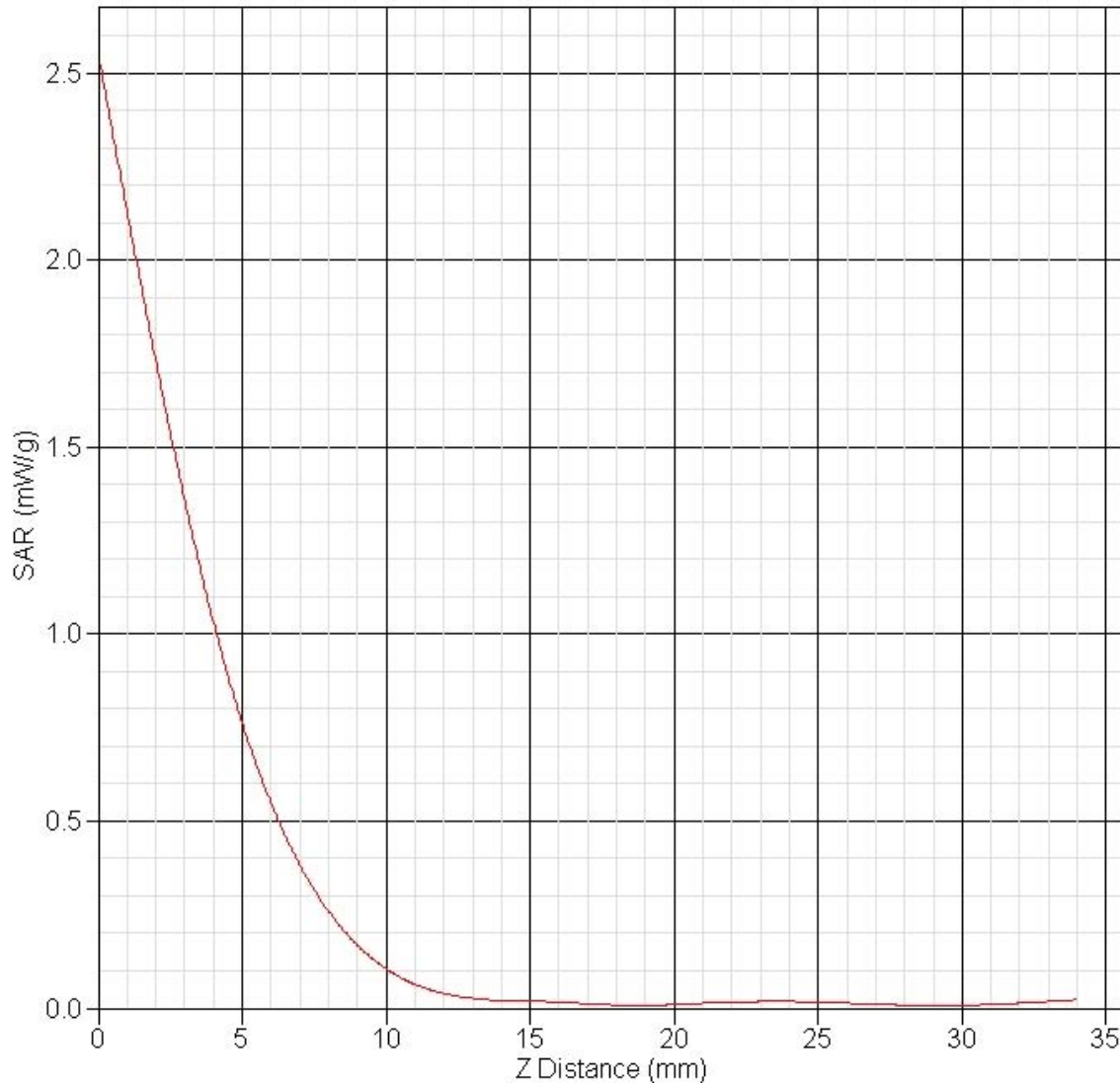
Exposure Assessment Measurement Uncertainty

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	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	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	1.4	normal	1	0.7	0.5	1	0.9
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	1.4	normal	1	0.6	0.5	1	0.9
Combined Uncertainty		RSS				8.8	7.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				17.6	15.4



SAR-Z Axis

at Hotspot x:-4.74 y:-0.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 01:29:46 AM
 End Time : 02-Sep-2008 02:51:00 AM
 Scanning Time : 1274 secs

Product Data

Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5600.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.149 W/kg
 Power Drift-Finish : 0.141 W/kg
 Power Drift (%) : -5.344
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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. : 5600BB
 Frequency : 5600.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 40.00 RH%
 Epsilon : 47.02 F/m
 Sigma : 5.69 S/m
 Density : 1000.00 kg/cu. m





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Probe Data

Name : APREL
 Model : E-020
 Type : E-Field Triangle
 Serial No. : 225
 Last Calib. Date : 03-May-2007
 Frequency : 5600.00 MHz
 Duty Cycle Factor: 1
 Conversion Factor: 3.9
 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

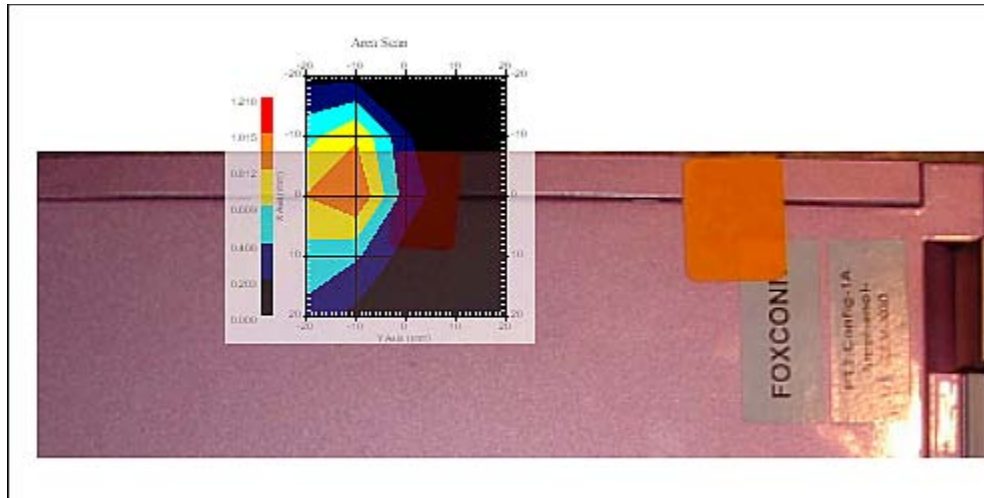
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 20.00 °C
 Set-up Date : 02-Sep-2008
 Set-up Time : 1:28:48 PM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid





1 gram SAR value : 0.992 W/kg
 Zoom Scan Peak SAR : 2.592 W/kg



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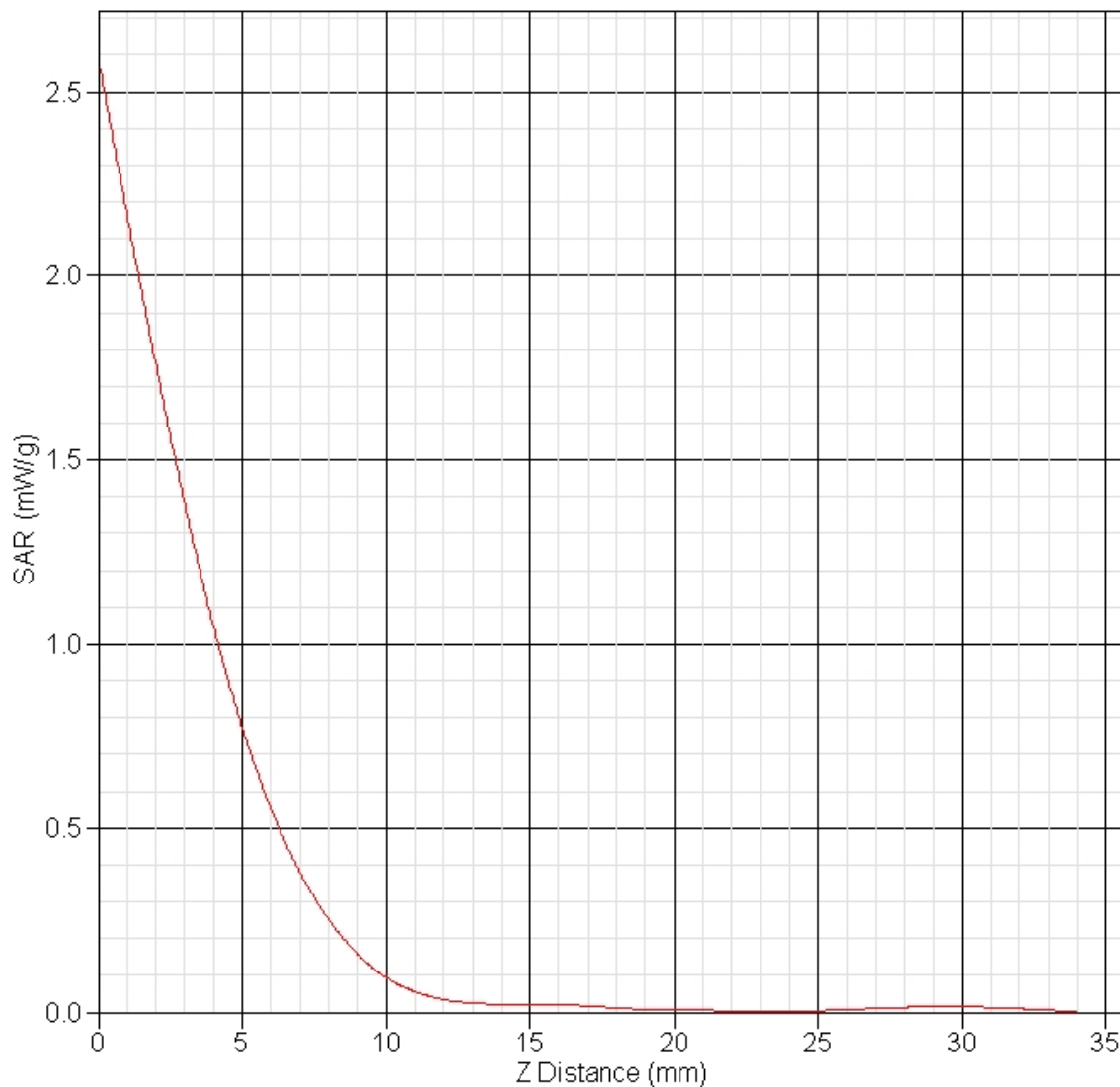
Exposure Assessment Measurement Uncertainty

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	5.3	rectangular	•3	1	1	3.1	3.1
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	1.4	normal	1	0.7	0.5	1	0.9
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	1.4	normal	1	0.6	0.5	1	0.9
Combined Uncertainty		RSS				10.8	9.7
Combined Uncertainty (coverage factor=2)		Normal (k=2)				21.6	19.4



SAR-Z Axis

at Hotspot x:-4.95 y:-10.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 12:00:21 PM
 End Time : 02-Sep-2008 01:21:36 PM
 Scanning Time : 1275 secs

Product Data

Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5600.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.615 W/kg
 Power Drift-Finish : 0.594 W/kg
 Power Drift (%) : -3.491
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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. : 5600BB
 Frequency : 5600.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 40.00 RH%
 Epsilon : 47.02 F/m
 Sigma : 5.69 S/m
 Density : 1000.00 kg/cu. m





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Probe Data

Name : APREL
 Model : E-020
 Type : E-Field Triangle
 Serial No. : 225
 Last Calib. Date : 03-May-2007
 Frequency : 5600.00 MHz
 Duty Cycle Factor: 1
 Conversion Factor: 3.9
 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

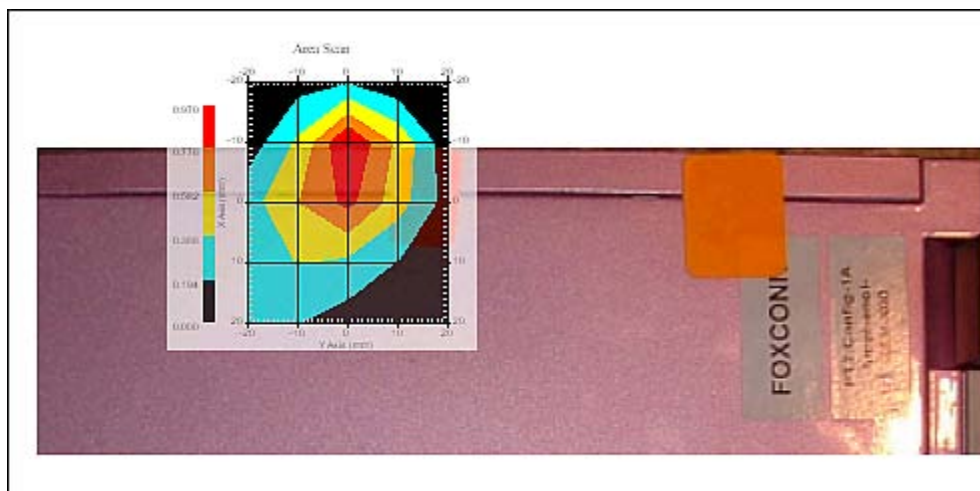
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 20.00 °C
 Set-up Date : 02-Sep-2008
 Set-up Time : 12:59:36 PM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid





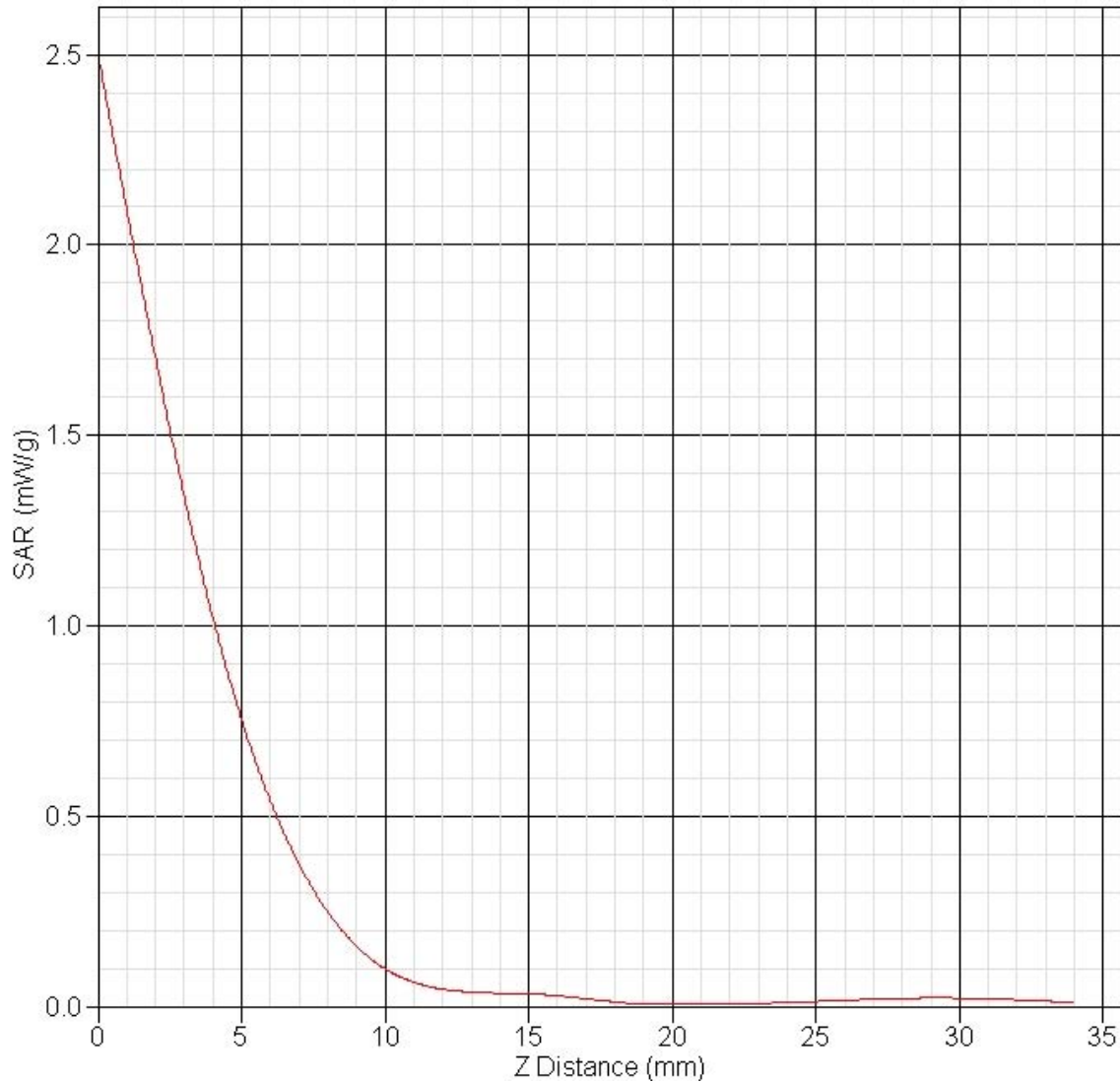
1 gram SAR value : 0.956 W/kg
 Zoom Scan Peak SAR : 2.502 W/kg

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	3.5	rectangular	•3	1	1	2	2
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	1.4
Liquid Conductivity(meas.)	1.4	normal	1	0.7	0.5	1	0.9
Liquid Permittivity(target)	5.0	rectangular	•3	0.6	0.5	1.7	1.4
Liquid Permittivity(meas.)	1.4	normal	1	0.6	0.5	1	0.9
Combined Uncertainty		RSS				9.7	8.6
Combined Uncertainty (coverage factor=2)		Normal (k=2)				19.4	17.2

SAR-Z Axis

at Hotspot x:-4.95 y:-0.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 12:58:19 PM
 End Time : 02-Sep-2008 02:19:31 PM
 Scanning Time : 1272 secs

Product Data

Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5800.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.604 W/kg
 Power Drift-Finish : 0.593 W/kg
 Power Drift (%) : -1.683
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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-B
 Frequency : 5800.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 50.00 RH%
 Epsilon : 46.67 F/m
 Sigma : 6.06 S/m
 Density : 1000.00 kg/cu. m





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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: 3.9
 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

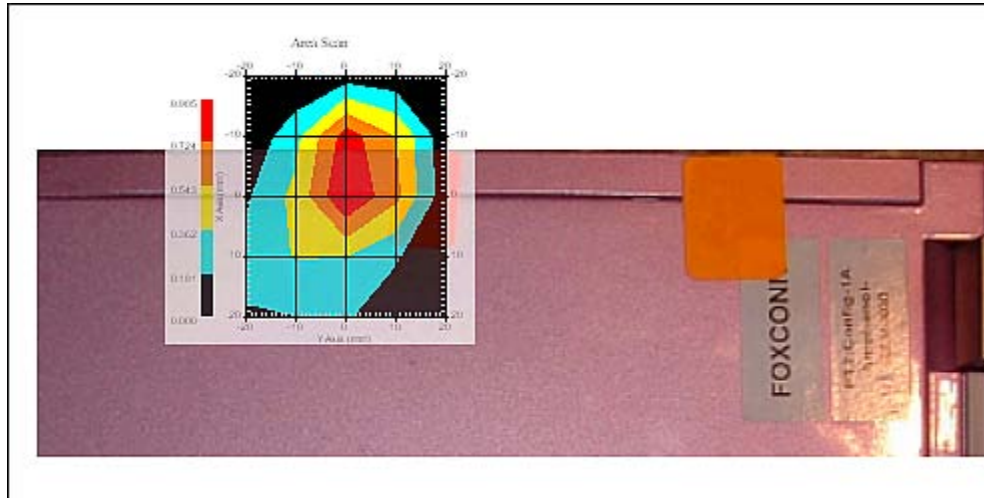
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 02-Sep-2008
 Set-up Time : 1:57:02 PM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : High





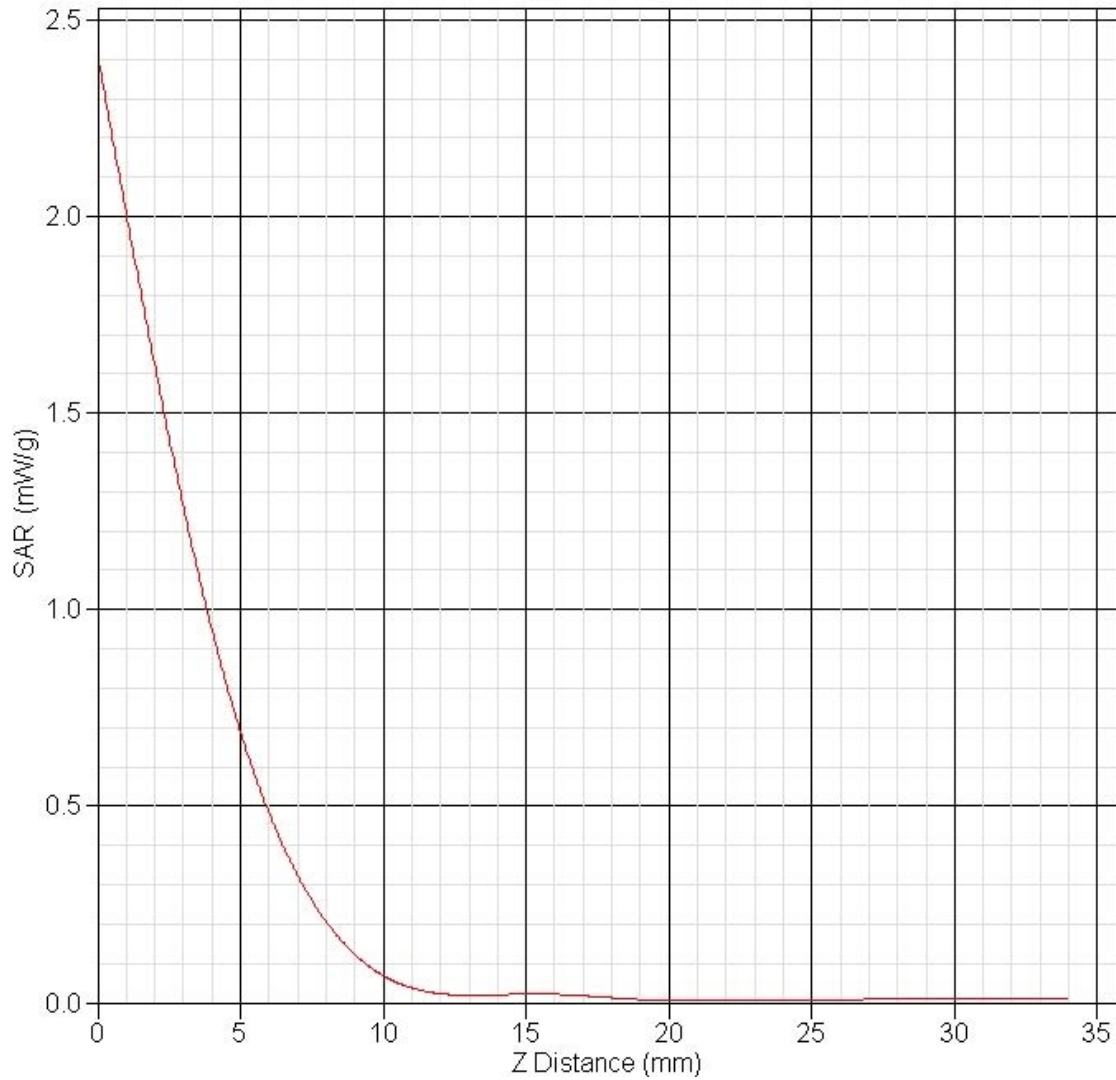
1 gram SAR value : 0.914 W/kg
 Zoom Scan Peak SAR : 2.411 W/kg

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	1.7	rectangular	•3	1	1	1	1
Phantom and Setup							
Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	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.)	3.2	normal	1	0.6	0.5	1.9	1.6
Combined Uncertainty		RSS				9.3	7.9
Combined Uncertainty (coverage factor=2)		Normal (k=2)				18.6	15.8

SAR-Z Axis

at Hotspot x:-4.95 y:-0.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 01:50:50 PM
 End Time : 02-Sep-2008 03:11:58 PM
 Scanning Time : 1268 secs

Product Data

Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5800.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.714 W/kg
 Power Drift-Finish : 0.686 W/kg
 Power Drift (%) : -3.842
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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-B
 Frequency : 5800.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 50.00 RH%
 Epsilon : 46.67 F/m
 Sigma : 6.06 S/m
 Density : 1000.00 kg/cu. m





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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: 3.9
 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

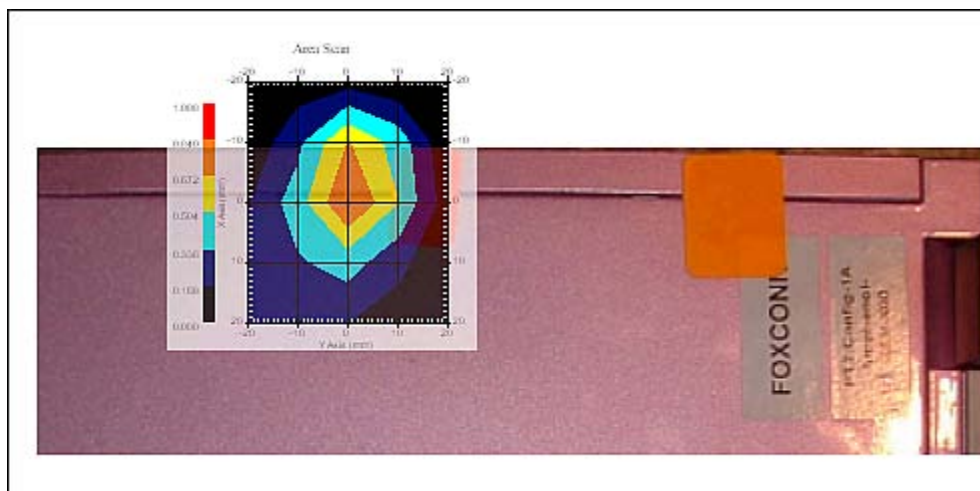
Measurement Data

Crest Factor : 1
 Scan Type : Complete
 Tissue Temp. : 20.00 °C
 Ambient Temp. : 21.00 °C
 Set-up Date : 02-Sep-2008
 Set-up Time : 2:48:40 PM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid





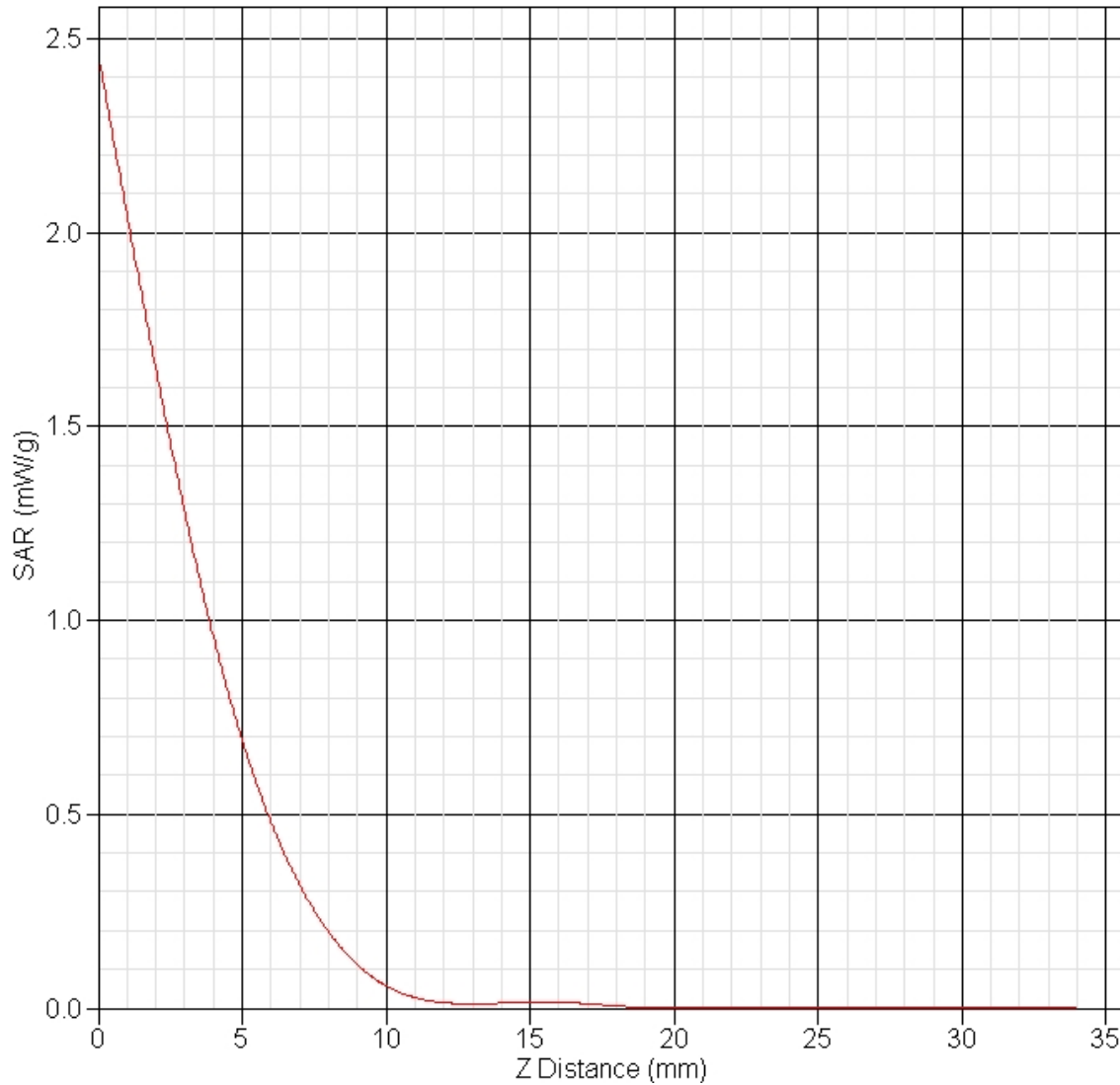
1 gram SAR value : 0.889 W/kg
 Zoom Scan Peak SAR : 2.461 W/kg

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	3.8	rectangular	•3	1	1	2.2	2.2
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.)	1.0	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.)	3.2	normal	1	0.6	0.5	1.9	1.6
Combined Uncertainty		RSS				22.2	22.1
Combined Uncertainty (coverage factor=2)		Normal (k=2)				44.4	44.2

SAR-Z Axis

at Hotspot x:-4.95 y:-0.12





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SAR Test Report

Report Date : 02-Sep-2008
 By Operator : 123
 Measurement Date : 02-Sep-2008
 Starting Time : 02-Sep-2008 02:22:27 PM
 End Time : 02-Sep-2008 03:43:49 PM
 Scanning Time : 1282 secs

Product Data

Device Name : Mini-Cooper-Tyco-front-ChainA
 Serial No. : 2102291500012
 Type : Dipole
 Model : APL
 Frequency : 5800.00 MHz
 Max. Transmit Pwr : 1 W
 Drift Time : 0 min(s)
 Length : 60 mm
 Width : 185 mm
 Depth : 15 mm
 Antenna Type : Internal
 Orientation : Touch
 Power Drift-Start : 0.688 W/kg
 Power Drift-Finish : 0.642 W/kg
 Power Drift (%) : -3.732
 Picture : C:\alsas\bitmap\Mini-Cooper-5358-frontA.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-B
 Frequency : 5800.00 MHz
 Last Calib. Date : 02-Sep-2008
 Temperature : 20.00 °C
 Ambient Temp. : 20.00 °C
 Humidity : 50.00 RH%
 Epsilon : 46.67 F/m
 Sigma : 6.06 S/m
 Density : 1000.00 kg/cu. m





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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: 3.9
 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 : 02-Sep-2008
 Set-up Time : 2:21:23 PM
 Area Scan : 5x5x1 : Measurement x=10mm, y=10mm, z=1.6mm
 Zoom Scan : 8x8x17 : Measurement x=4mm, y=4mm, z=2mm

Other Data

DUT Position : Touch
 Separation : 0
 Channel : Mid



Project Number: ITLB-GAL-5358
FCCID: E2K533ANH
51 Spectrum Way
Ottawa ON Canada K2R 1E6
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E. & O.E.





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Exposure Assessment Measurement Uncertainty

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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
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Phantom Uncertainty(shape & thickness tolerance)	3.4	rectangular	•3	1	1	2	2
Liquid Conductivity(target)	5.0	rectangular	•3	0.7	0.5	2	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.)	3.2	normal	1	0.6	0.5	1.9	1.6
Combined Uncertainty		RSS				10.4	9
Combined Uncertainty (coverage factor=2)		Normal (k=2)				20.8	18



SAR-Z Axis at Hotspot x:-4.95 y:-0.12

