NCL CALIBRATION LABORATORIES

Calibration File No.: CP-571

Client.: Wistron

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the **NCL CALIBRATION LABORATORIES** by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 2450 MHz

Manufacturer: APREL Laboratories

Model No.: E-020

Serial No.: 266

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2
Project No: WISB-ALSAS10U-5121

Calibrated: 24th March 2005 Released on: 28th March 2005

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:



51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 266.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 266 was a new probe taken from stock prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C **Temperature of the Tissue:** 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol	
Y. Chen	

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 266

Frequency: 2450 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

Sensitivity in Air

Diode Compression Point: 95 mV

^{*}Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Head Tissue

Frequency: 2450 MHz

Epsilon: 39.2 (+/-5%) **Sigma:** 1.80 S/m (+/-5%)

ConvF

Channel X: 4.9

Channel Y: 4.9

Channel Z: 4.9

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

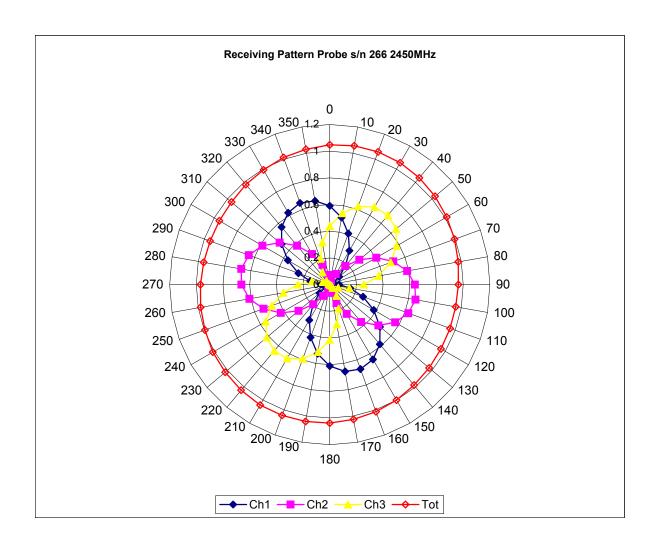
Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

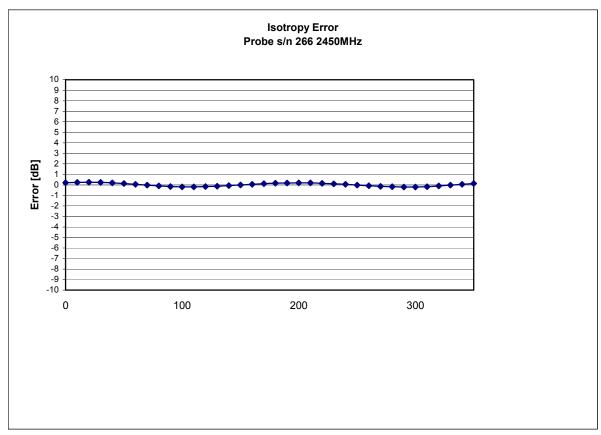
Spatial Resolution:

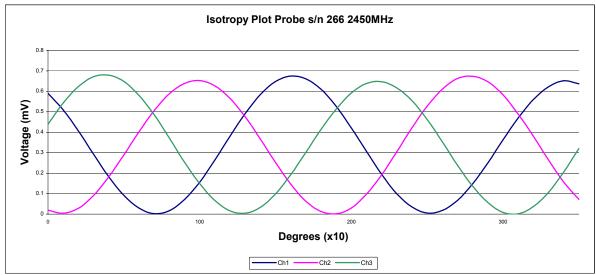
The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 2450 MHz (Air)



Isotropy Error 2450 MHz (Air)



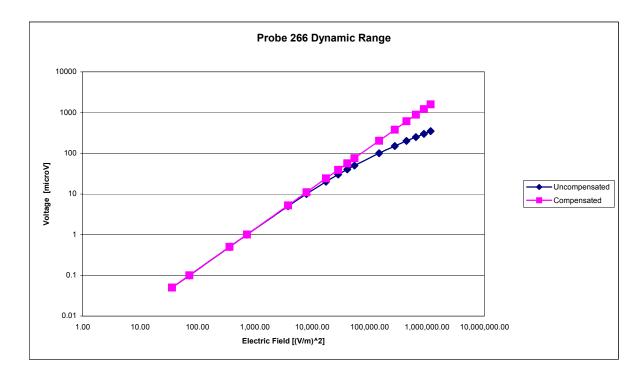


Isotropicity in Tissue:

0.10 dB

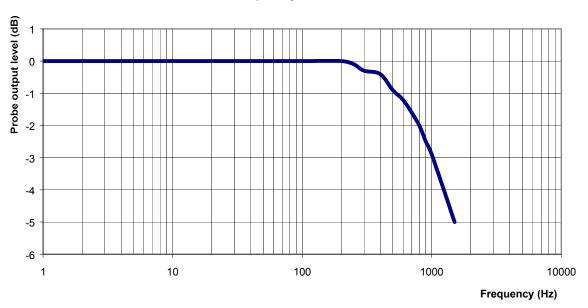
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Dynamic Range



Video Bandwidth

Probe Frequency Characteristics



Video Bandwidth at 500 Hz 1 dB Video Bandwidth at 1.02 KHz: 3 dB

Conversion Factor Uncertainty Assessment

Frequency: 2450MHz

Epsilon: 39.2 (+/-5%) **Sigma:** 1.80 S/m (+/-5%)

ConvF

Channel X: 4.9 7%(K=2)

Channel Y: 4.9 7%(K=2)

Channel Z: 4.9 7%(K=2)

To minimize the uncertainty calculation all tissue sensitivity values were calculated using a load impedance of 5 M Ω .

Boundary Effect:

For a distance of 2.4mm the evaluated uncertainty (increase in the probe sensitivity) is less than 2%.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2004.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-572

Client.: Wistron

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the **NCL CALIBRATION LABORATORIES** by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 2450 MHz

Manufacturer: APREL Laboratories

Model No.: E-020

Serial No.: 266

Calibration in Body Tissue

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2
Project No: WISB-ALSAS10U-5121

Calibrated: 24th March 2005 Released on: 28th March 2005

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:



51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 266.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 266 was a new probe taken from stock prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C **Temperature of the Tissue:** 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

	 	 _
Stuart Nicol		
Y. Chen		

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 266

Frequency: 2450 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

Sensitivity in Air

Diode Compression Point: 95 mV

^{*}Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Body Tissue

Frequency: 2450 MHz

Epsilon: 52.7 (+/-5%) **Sigma:** 1.95 S/m (+/-5%)

ConvF

Channel X: 5.0

Channel Y: 5.0

Channel Z: 5.0

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

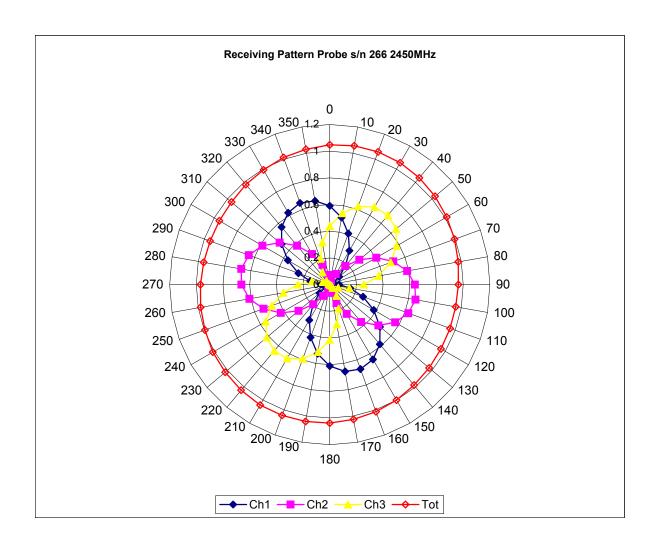
Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

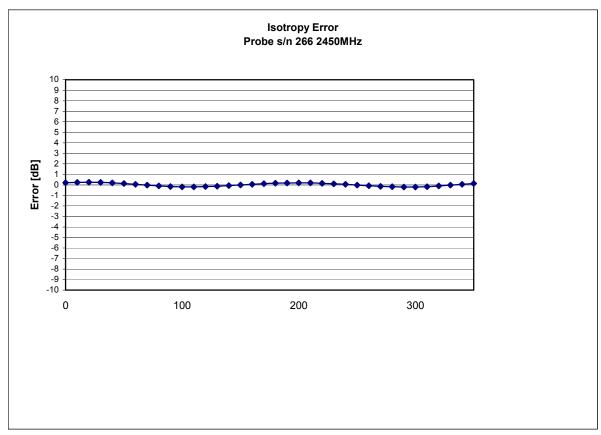
Spatial Resolution:

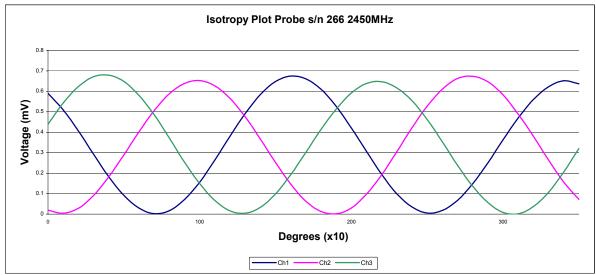
The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 2450 MHz (Air)



Isotropy Error 2450 MHz (Air)



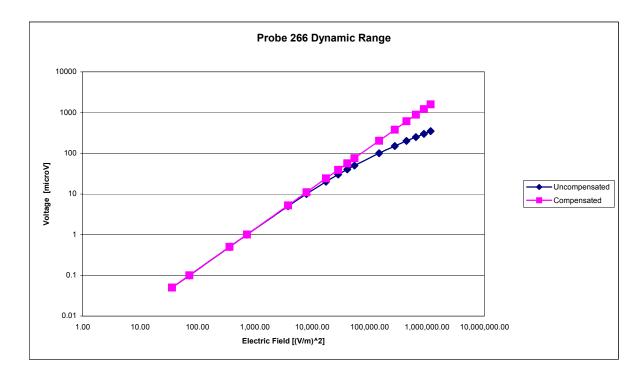


Isotropicity in Tissue:

0.10 dB

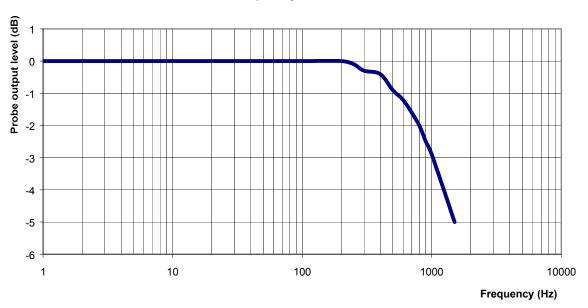
Page 6 of 10

Dynamic Range



Video Bandwidth

Probe Frequency Characteristics



Video Bandwidth at 500 Hz 1 dB Video Bandwidth at 1.02 KHz: 3 dB

Conversion Factor Uncertainty Assessment

Frequency: 2450MHz

Epsilon: 52.7 (+/-5%) **Sigma:** 1.95 S/m (+/-5%)

ConvF

Channel X: 5.0 7%(K=2)

Channel Y: 5.0 7%(K=2)

Channel Z: 5.0 7%(K=2)

To minimize the uncertainty calculation all tissue sensitivity values were calculated using a load impedance of 5 M Ω .

Boundary Effect:

For a distance of 2.4mm the evaluated uncertainty (increase in the probe sensitivity) is less than 2%.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2004.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-573

Client.: Wistron

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the **NCL CALIBRATION LABORATORIES** by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 5200 MHz

Manufacturer: APREL Laboratories

Model No.: E-020

Serial No.: 266

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2
Project No: WISB-ALSAS10U-5121

Calibrated: 24th March 2005 Released on: 28th March 2005

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:



51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 266.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 266 was a new probe taken from stock prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C **Temperature of the Tissue:** 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol	
Y. Chen	

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 266

Frequency: 5200 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

Sensitivity in Air

Diode Compression Point: 95 mV

^{*}Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Head Tissue

Frequency: 5200 MHz

Epsilon: 36.0 (+/-10%) **Sigma:** 4.7 S/m (+/-10%)

ConvF

Channel X: 3.8

Channel Y: 3.8

Channel Z: 3.8

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

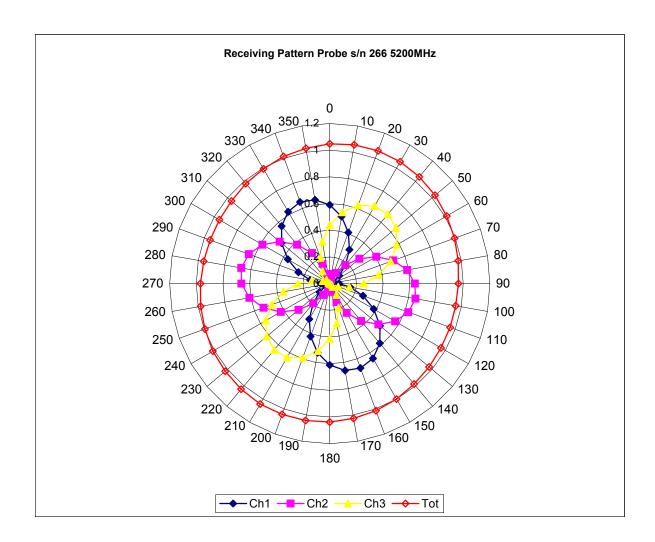
Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

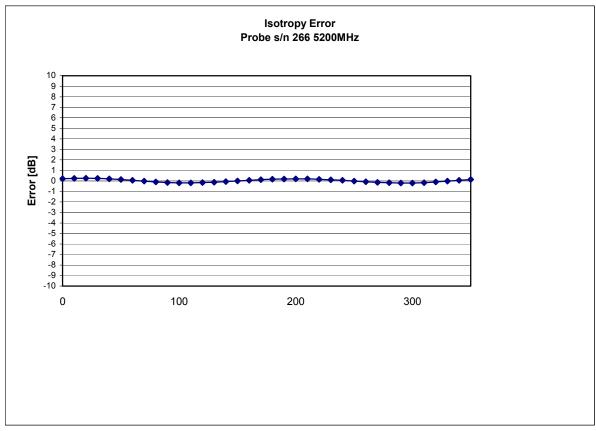
Spatial Resolution:

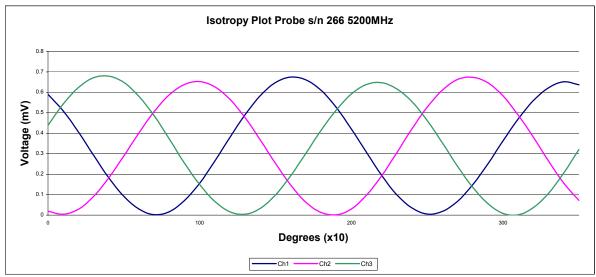
The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 5200 MHz (Air)



Isotropy Error 5200 MHz (Air)



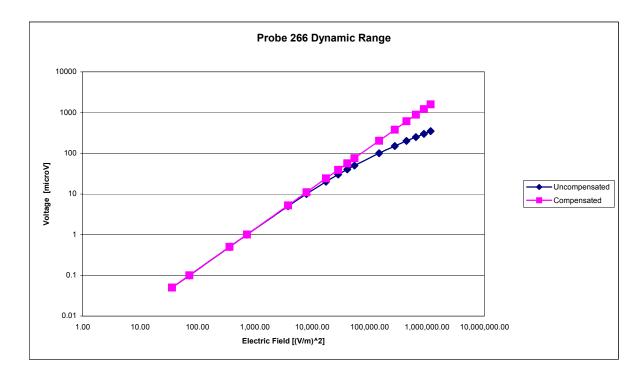


Isotropicity in Tissue:

0.10 dB

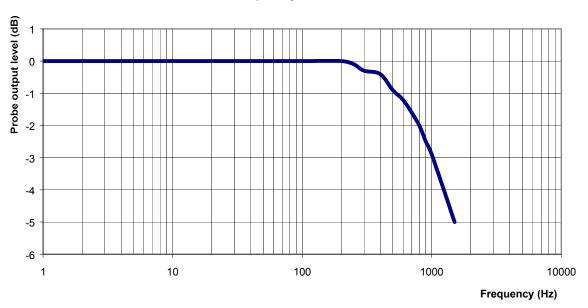
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Dynamic Range



Video Bandwidth

Probe Frequency Characteristics



Video Bandwidth at 500 Hz 1 dB Video Bandwidth at 1.02 KHz: 3 dB

Conversion Factor Uncertainty Assessment

Frequency: 5200MHz

Epsilon: 36.0 (+/-10%) **Sigma:** 4.7 S/m (+/-10%)

ConvF

Channel X: 3.8 7%(K=2)

Channel Y: 3.8 7%(K=2)

Channel Z: 3.8 7%(K=2)

To minimize the uncertainty calculation all tissue sensitivity values were calculated using a load impedance of 5 M Ω .

Boundary Effect:

For a distance of 2.4mm the evaluated uncertainty (increase in the probe sensitivity) is less than 2%.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2004.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-574

Client.: Wistron

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the **NCL CALIBRATION LABORATORIES** by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 5200 MHz

Manufacturer: APREL Laboratories

Model No.: E-020

Serial No.: 266

Calibration in Body Tissue

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2 Project No: WISB-ALSAS10U-5121

> Calibrated: 24th March 2005 Released on: 28th March 2005

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:



51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 266.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 266 was a new probe taken from stock prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C **Temperature of the Tissue:** 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol	
Y. Chen	

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 266

Frequency: 5200 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

Sensitivity in Air

Diode Compression Point: 95 mV

^{*}Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Body Tissue

Frequency: 5200 MHz

Epsilon: 43.0 (+/-10%) **Sigma:** 5.75 S/m (+/-10%)

ConvF

Channel X: 4.4

Channel Y: 4.4

Channel Z: 4.4

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

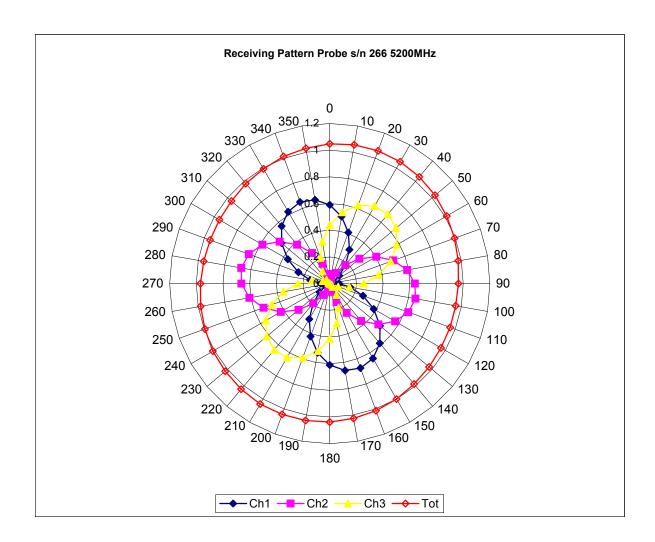
Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

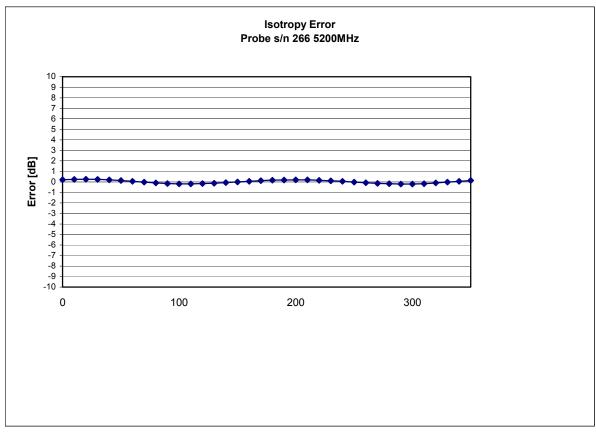
Spatial Resolution:

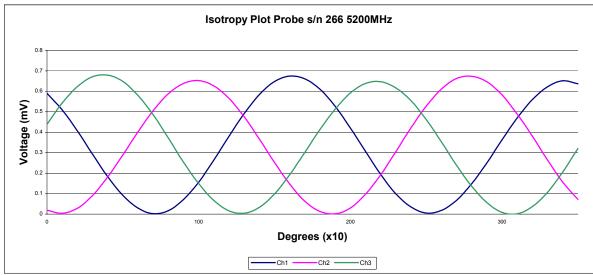
The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 5200 MHz (Air)



Isotropy Error 5200 MHz (Air)



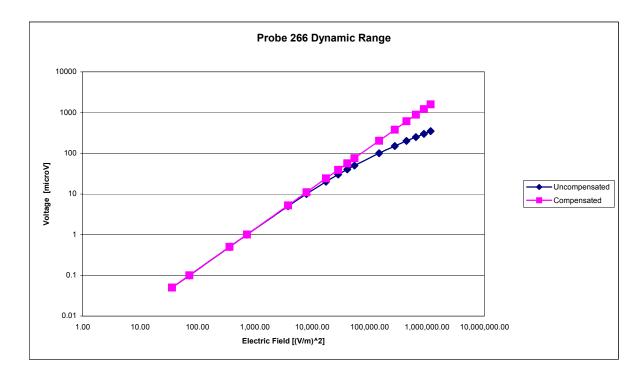


Isotropicity in Tissue:

0.10 dB

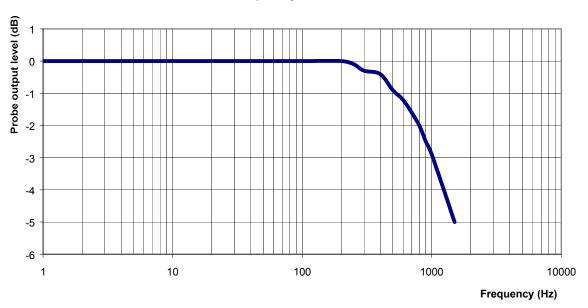
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Dynamic Range



Video Bandwidth

Probe Frequency Characteristics



Video Bandwidth at 500 Hz 1 dB Video Bandwidth at 1.02 KHz: 3 dB

Conversion Factor Uncertainty Assessment

Frequency: 5200MHz

Epsilon: 43.0 (+/-10%) **Sigma:** 5.75 S/m (+/-10%)

ConvF

Channel X: 4.4 7%(K=2)

Channel Y: 4.4 7%(K=2)

Channel Z: 4.4 7%(K=2)

To minimize the uncertainty calculation all tissue sensitivity values were calculated using a load impedance of 5 M Ω .

Boundary Effect:

For a distance of 2.4mm the evaluated uncertainty (increase in the probe sensitivity) is less than 2%.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2004.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-575

Client.: Wistron

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the **NCL CALIBRATION LABORATORIES** by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 5800 MHz

Manufacturer: APREL Laboratories

Model No.: E-020

Serial No.: 266

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2
Project No: WISB-ALSAS10U-5121

Calibrated: 24th March 2005 Released on: 28th March 2005

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:



51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 266.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 266 was a new probe taken from stock prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C **Temperature of the Tissue:** 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

	 	 _
Stuart Nicol		
Y. Chen		

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 266

Frequency: 5800 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

Sensitivity in Air

Diode Compression Point: 95 mV

^{*}Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Head Tissue

Frequency: 5800 MHz

Epsilon: 35.3 (+/-10%) **Sigma:** 5.3 S/m (+/-10%)

ConvF

Channel X: 3.7

Channel Y: 3.7

Channel Z: 3.7

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

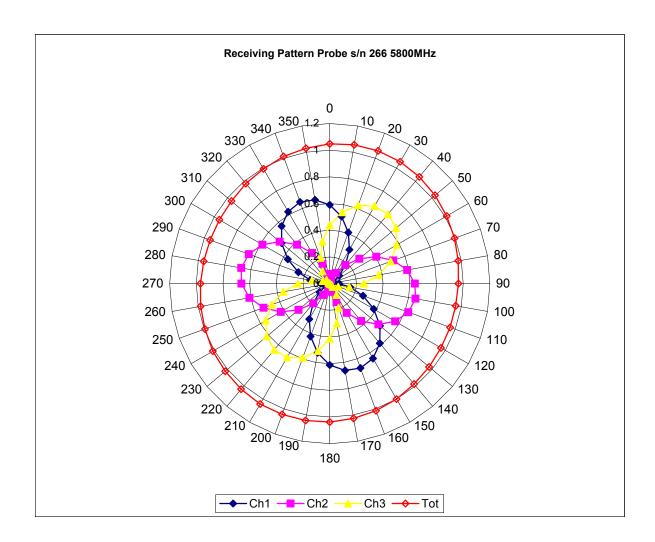
Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

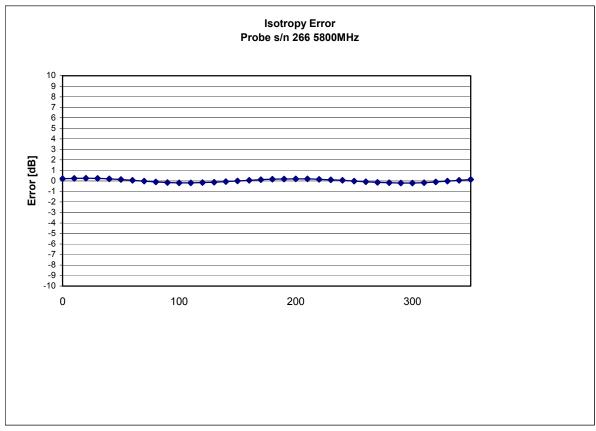
Spatial Resolution:

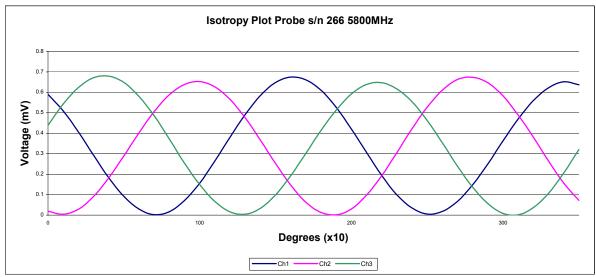
The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 5800 MHz (Air)



Isotropy Error 5800 MHz (Air)



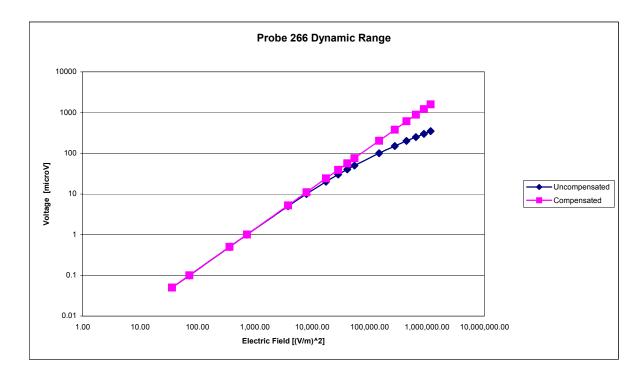


Isotropicity in Tissue:

0.10 dB

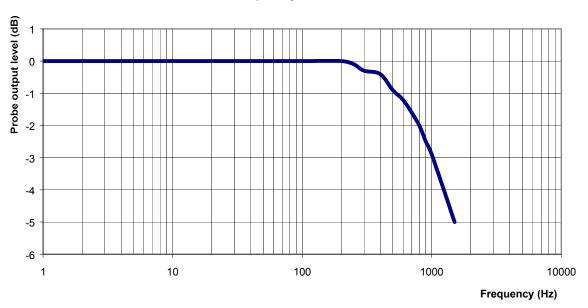
Page 6 of 10

Dynamic Range



Video Bandwidth

Probe Frequency Characteristics



Video Bandwidth at 500 Hz 1 dB Video Bandwidth at 1.02 KHz: 3 dB

Conversion Factor Uncertainty Assessment

Frequency: 5800MHz

Epsilon: 35.3 (+/-10%) **Sigma:** 5.3 S/m (+/-10%)

ConvF

Channel X: 3.7 7%(K=2)

Channel Y: 3.7 7%(K=2)

Channel Z: 3.7 7%(K=2)

To minimize the uncertainty calculation all tissue sensitivity values were calculated using a load impedance of 5 M Ω .

Boundary Effect:

For a distance of 2.4mm the evaluated uncertainty (increase in the probe sensitivity) is less than 2%.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2004.

NCL CALIBRATION LABORATORIES

Calibration File No.: CP-576

Client.: Wistron

CERTIFICATE OF CALIBRATION

It is certified that the equipment identified below has been calibrated in the **NCL CALIBRATION LABORATORIES** by qualified personnel following recognized procedures and using transfer standards traceable to NRC/NIST.

Equipment: Miniature Isotropic RF Probe 5800 MHz

Manufacturer: APREL Laboratories

Model No.: E-020

Serial No.: 266

Calibration in Body Tissue

Calibration Procedure: SSI/DRB-TP-D01-032-E020-V2
Project No: WISB-ALSAS10U-5121

Calibrated: 24th March 2005 Released on: 28th March 2005

This Calibration Certificate is Incomplete Unless Accompanied with the Calibration Results Summary

Released By:



51 SPECTRUM WAY NEPEAN, ONTARIO CANADA K2R 1E6 Division of APREL Lab. TEL: (613) 820-4988 FAX: (613) 820-4161

Introduction

This Calibration Report reproduces the results of the calibration performed in line with the SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure. The results contained within this report are for APREL E-Field Probe E-020 266.

References

SSI/DRB-TP-D01-032-E020-V2 E-Field Probe Calibration Procedure IEEE 1528 "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques" SSI-TP-011 Tissue Calibration Procedure

Conditions

Probe 266 was a new probe taken from stock prior to calibration.

Ambient Temperature of the Laboratory: 22 °C +/- 0.5°C **Temperature of the Tissue:** 21 °C +/- 0.5°C

We the undersigned attest that to the best of our knowledge the calibration of this probe has been accurately conducted and that all information contained within this report has been reviewed for accuracy.

Stuart Nicol	
Y. Chen	

Calibration Results Summary

Probe Type: E-Field Probe E-020

Serial Number: 266

Frequency: 5800 MHz

Sensor Offset: 1.56 mm

Sensor Length: 2.5 mm

Tip Enclosure: Ertalyte*

Tip Diameter: <5 mm

Tip Length: 60 mm

Total Length: 290 mm

Sensitivity in Air

Diode Compression Point: 95 mV

^{*}Resistive to recommended tissue recipes per IEEE-1528

Sensitivity in Body Tissue

Frequency: 5800 MHz

Epsilon: 48.2 (+/-10%) **Sigma:** 6.0 S/m (+/-10%)

ConvF

Channel X: 4.2

Channel Y: 4.2

Channel Z: 4.2

Tissue sensitivity values were calculated using the load impedance of the APREL Laboratories Daq-Paq.

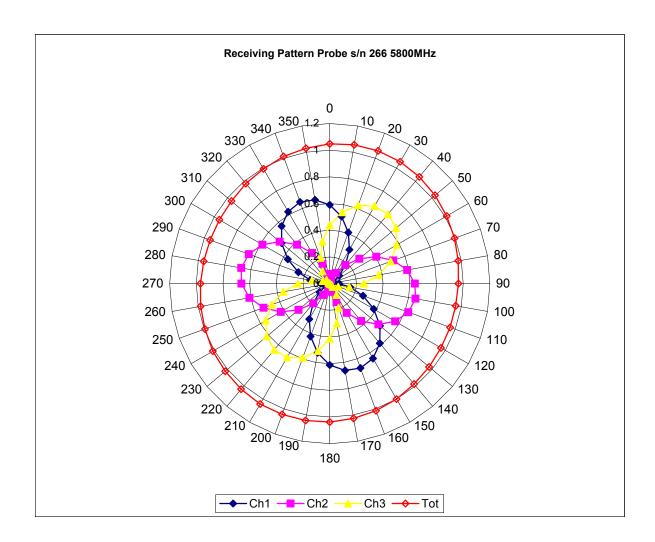
Boundary Effect:

Uncertainty resulting from the boundary effect is less than 2% for the distance between the tip of the probe and the tissue boundary, when less than 2.44mm.

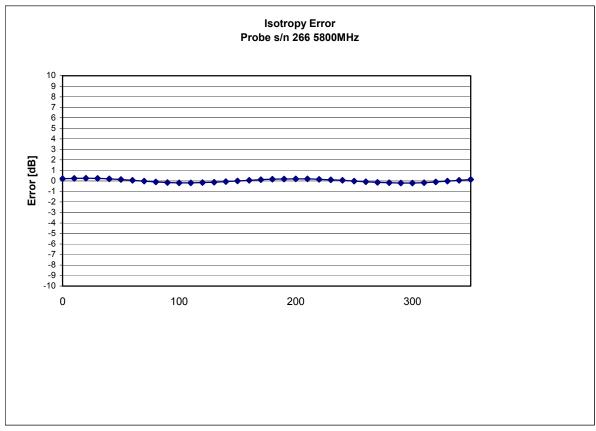
Spatial Resolution:

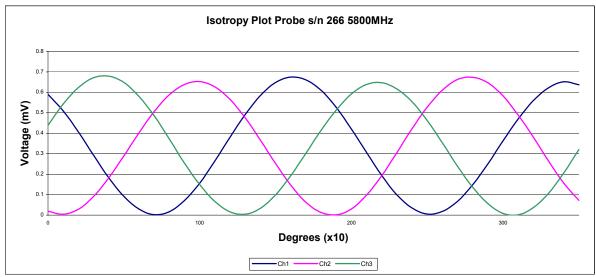
The measured probe tip diameter is 5 mm (+/- 0.01 mm) and therefore meets the requirements of SSI/DRB-TP-D01-032 for spatial resolution.

Receiving Pattern 5800 MHz (Air)



Isotropy Error 5800 MHz (Air)



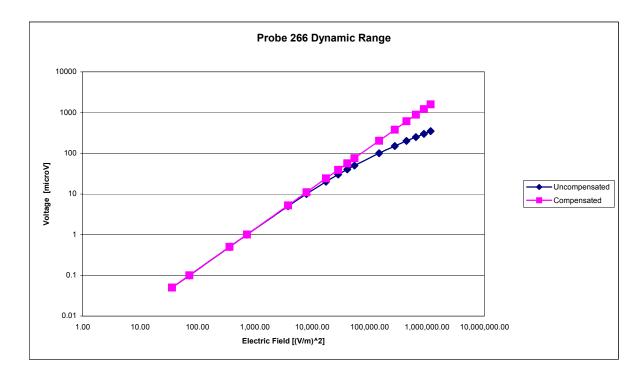


Isotropicity in Tissue:

0.10 dB

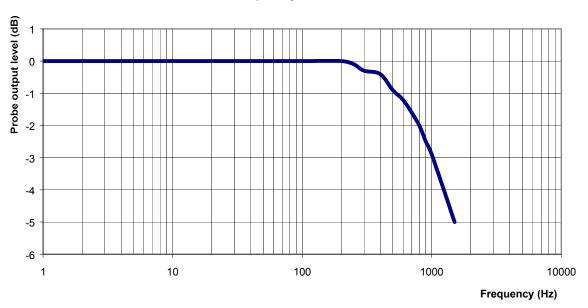
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Dynamic Range



Video Bandwidth

Probe Frequency Characteristics



Video Bandwidth at 500 Hz 1 dB Video Bandwidth at 1.02 KHz: 3 dB

Conversion Factor Uncertainty Assessment

Frequency: 5800MHz

Epsilon: 48.2 (+/-10%) **Sigma:** 6.0 S/m (+/-10%)

ConvF

Channel X: 4.2 7%(K=2)

Channel Y: 4.2 7%(K=2)

Channel Z: 4.2 7%(K=2)

To minimize the uncertainty calculation all tissue sensitivity values were calculated using a load impedance of 5 M Ω .

Boundary Effect:

For a distance of 2.4mm the evaluated uncertainty (increase in the probe sensitivity) is less than 2%.

Test Equipment

The test equipment used during Probe Calibration, manufacturer, model number and, current calibration status are listed and located on the main APREL server R:\NCL\Calibration Equipment\Instrument List May 2004.