APPENDIX C - PROBE CALIBRATION

Probe ET3DV6

SN:1590

Manufactured:	March 19, 2001
Calibrated:	March 26, 2001

Calibrated for System DASY3

DASY3 - Parameters of Probe: ET3DV6 SN:1590

Sensitivity in Free Space

Diode Compression

NormX	**1.77**	$\mu V/(V/m)^2$	DCP X	**100**	mV
NormY	**1.91**	$\mu V/(V/m)^2$	DCP Y	**100**	mV
NormZ	**1.67**	$\mu V/(V/m)^2$	DCP Z	**100**	mV

Sensitivity in Tissue Simulating Liquid

Head **450 MHz** e_r **= 43.5 ± 5%** s **= 0.87 ± 10% mho/m**

ConvF X	**7.36**	extrapolated	Boundary effect:	
ConvF Y	**7.36**	extrapolated	Alpha	**0.29**
ConvF Z	**7.36**	extrapolated	Depth	**2.72**

Head **900 MHz** e_r **= 42 ± 5%** s **= 0.97 ± 10% mho/m**

ConvF X	**6.83**	± 7% (k=2)	Boundary effect:	
ConvF Y	**6.83**	± 7% (k=2)	Alpha	**0.37**
ConvF Z	**6.83**	± 7% (k=2)	Depth	**2.48**

Head **1500 MHz** e_r **= 40.4 ± 5%** s **= 1.23 ± 10% mho/m**

ConvF X	**6.13**	interpolated	Boundary effect:	
ConvF Y	**6.13**	interpolated	Alpha	**0.47**
ConvF Z	**6.13**	interpolated	Depth	**2.17**

Head **1800 MHz** e_r **= 40 ± 5%** s **= 1.40 ± 10% mho/m**

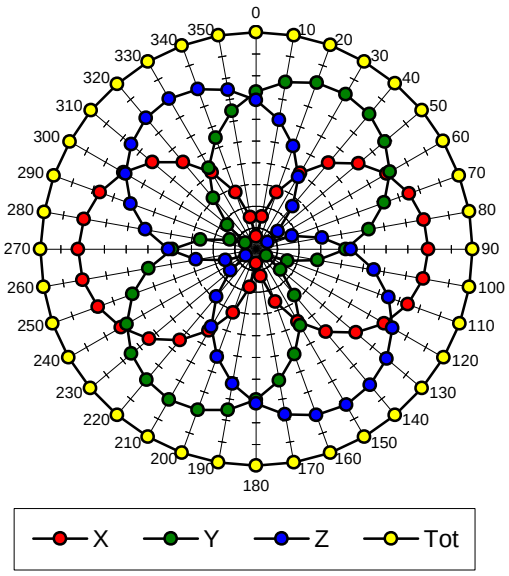
ConvF X	**5.78**	± 7% (k=2)	Boundary effect:	
ConvF Y	**5.78**	± 7% (k=2)	Alpha	**0.53**
ConvF Z	**5.78**	± 7% (k=2)	Depth	**2.01**

Sensor Offset

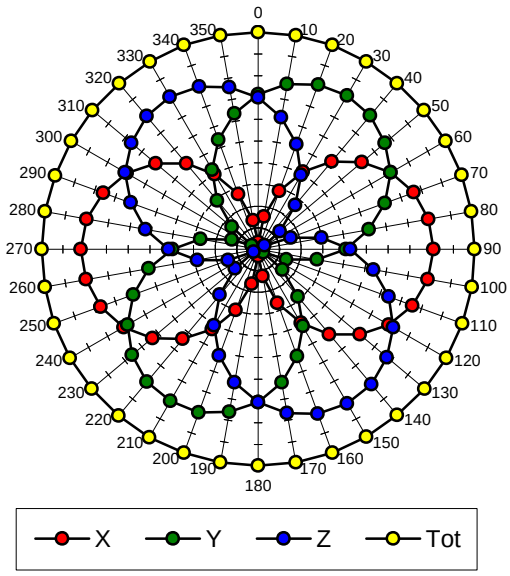
Probe Tip to Sensor Center	**2.7**	mm
Optical Surface Detection	**1.2 ± 0.2**	mm

Receiving Pattern (ϕ , θ = 0°

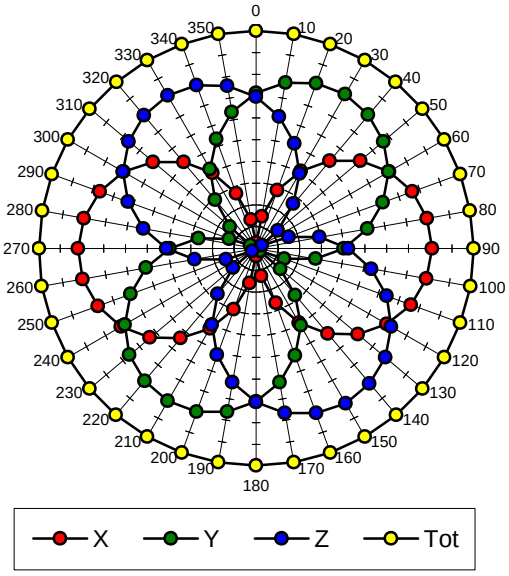
f = 30 MHz, TEM cell ifi110



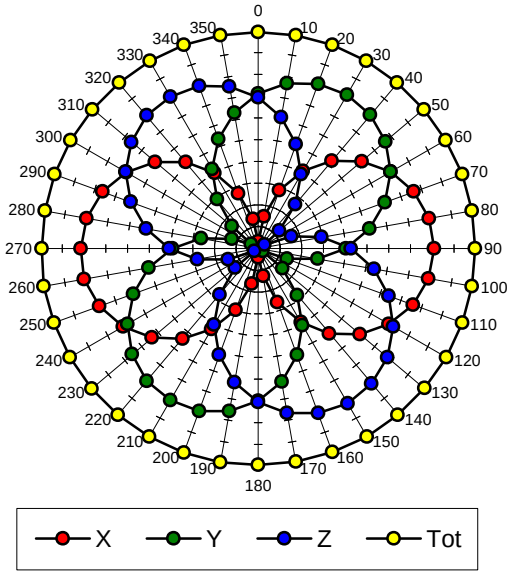
f = 100 MHz, TEM cell ifi110



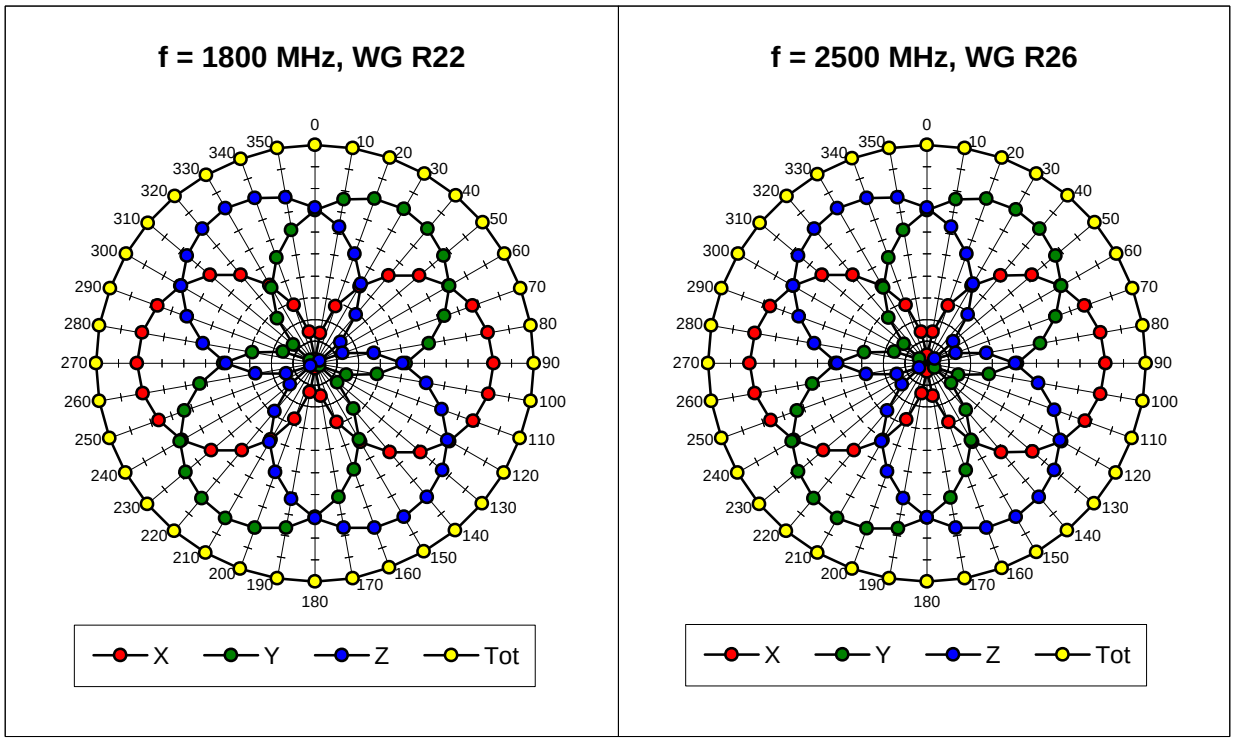
f = 300 MHz, TEM cell ifi110



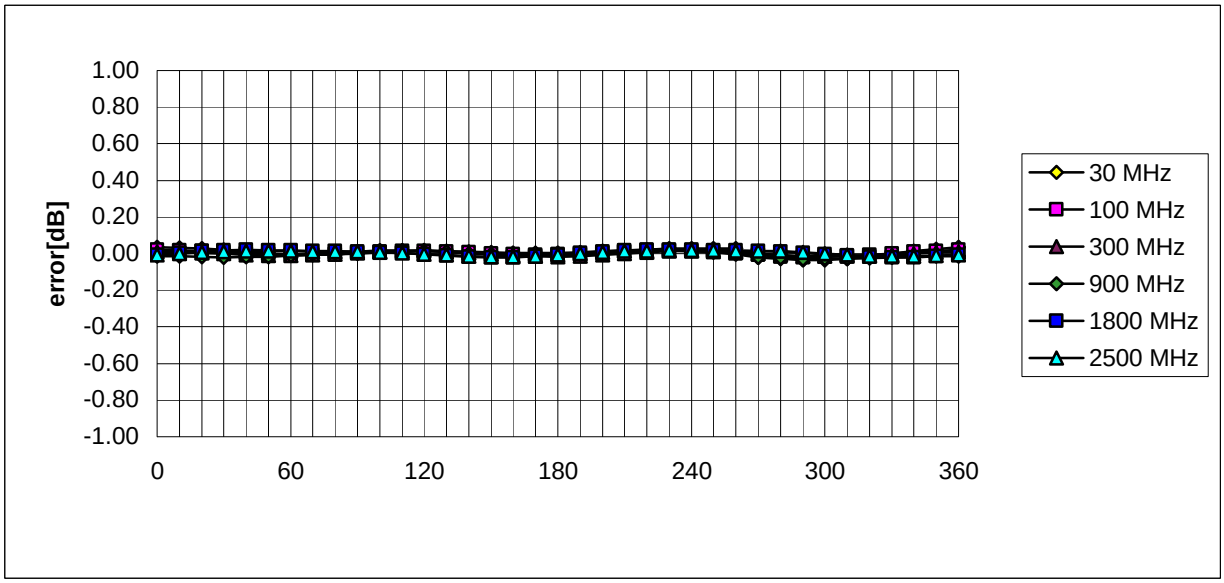
f = 900 MHz, TEM cell ifi110



ET3DV6 SN:1590

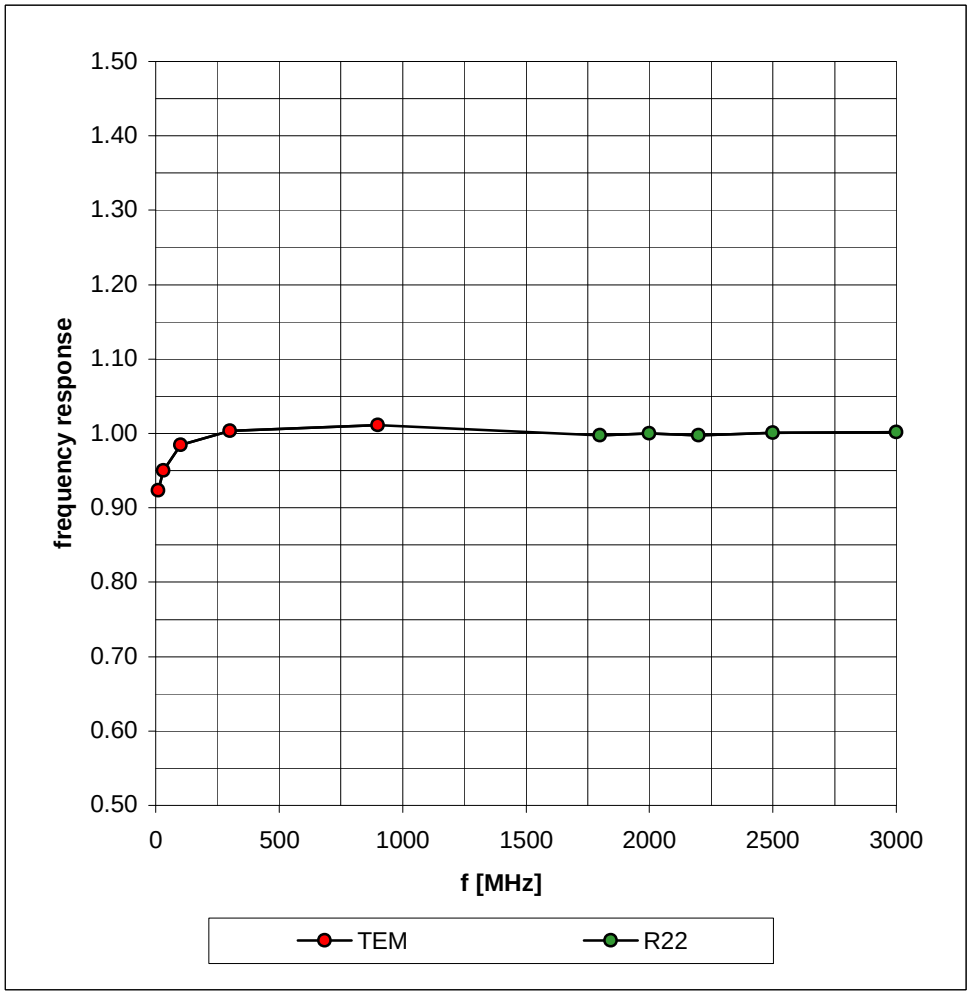


Isotropy Error (f), q = 0°



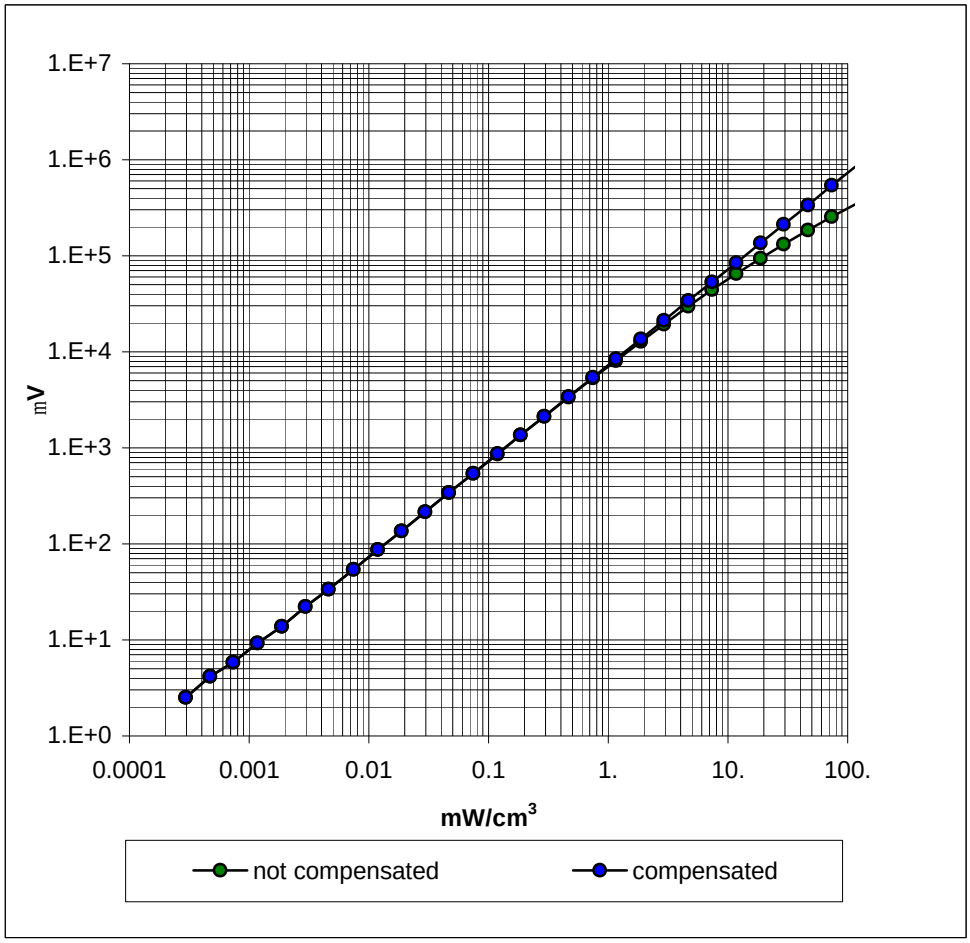
Frequency Response of E-Field

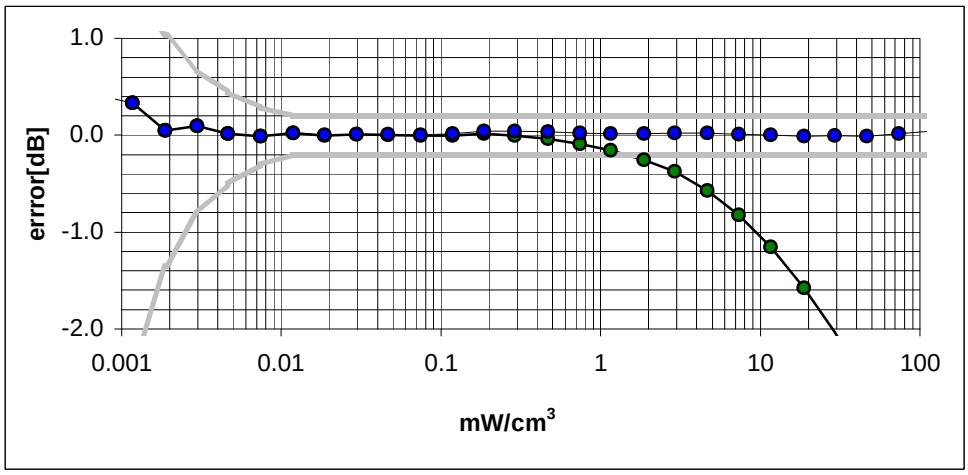
(TEM-Cell:ifi110, Waveguide R22)



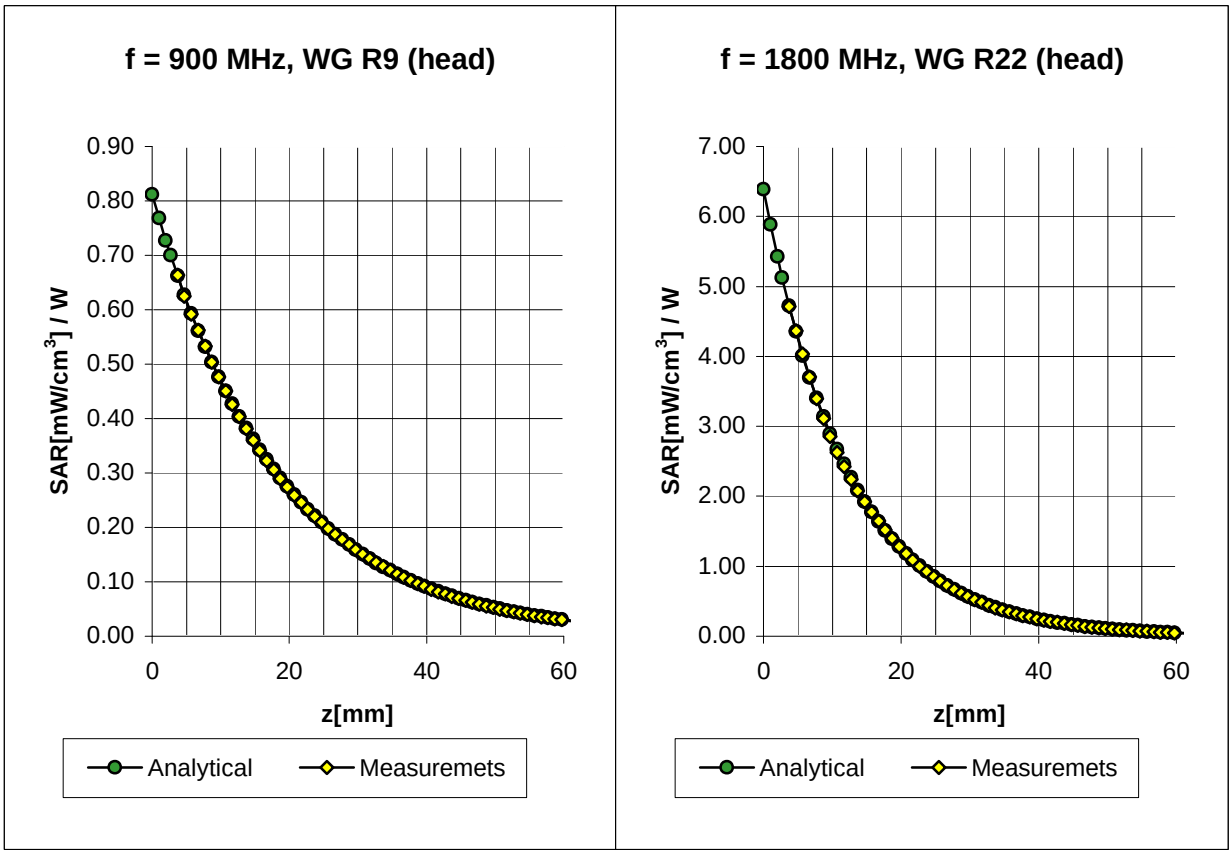
Dynamic Range f(SAR_{brain})

(TEM-Cell:ifi110)





Conversion Factor Assessment



Head **900 MHz** e_r **= 42 ± 5%** s **= 0.97 ± 10% mho/m**

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ConvF Y	**6.83** ± 7% (k=2)	Alpha	**0.37**
ConvF Z	**6.83** ± 7% (k=2)	Depth	**2.48**

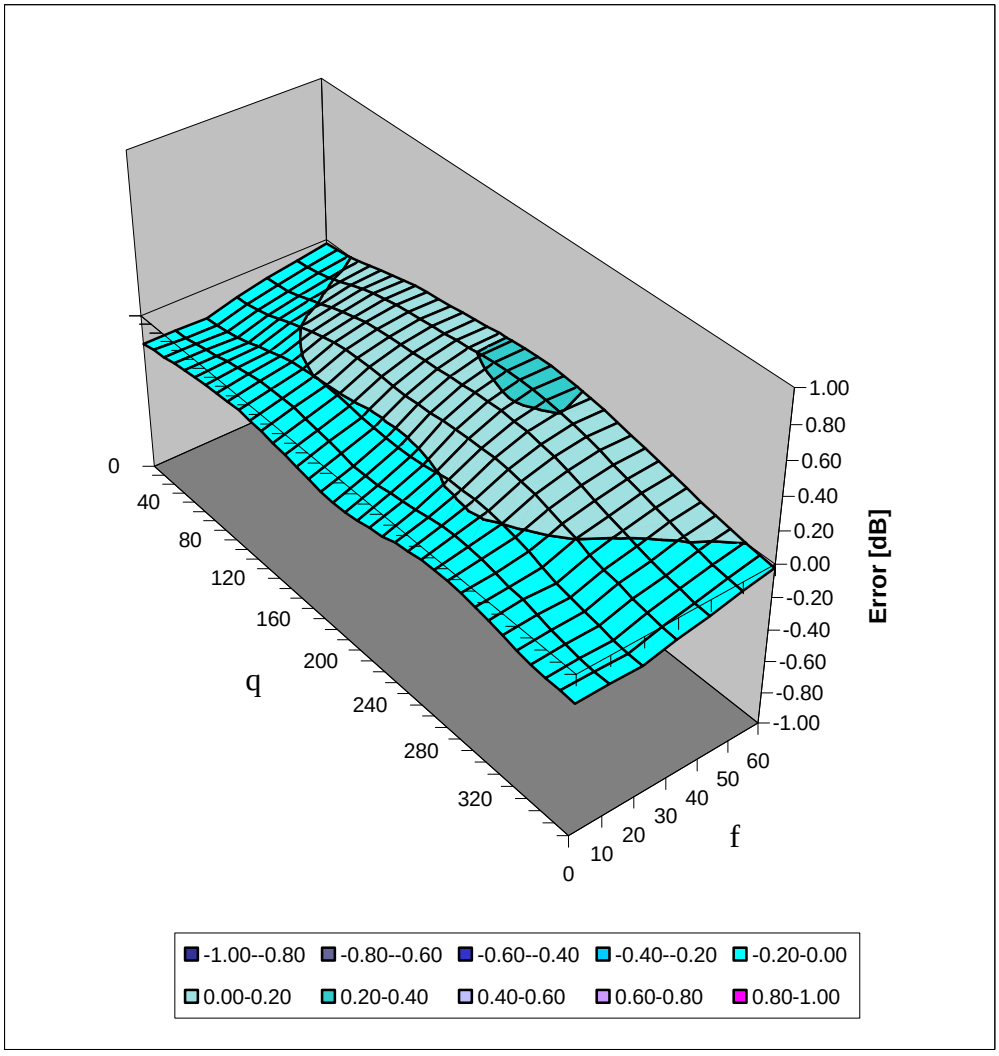
Head **1800 MHz** e_r **= 40 ± 5%** s **= 1.40 ± 10% mho/m**

ConvF X	**5.78** ± 7% (k=2)	Boundary effect:	
ConvF Y	**5.78** ± 7% (k=2)	Alpha	**0.53**
ConvF Z	**5.78** ± 7% (k=2)	Depth	**2.01**

ET3DV6 SN:1590

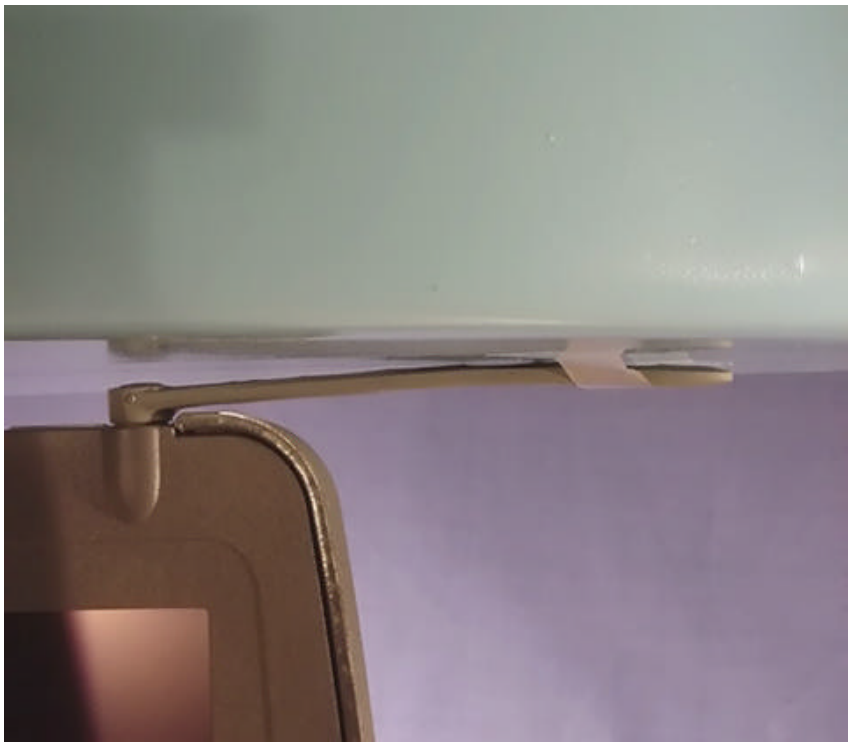
Deviation from Isotropy in HSL

Error (q,f), f = 900 MHz

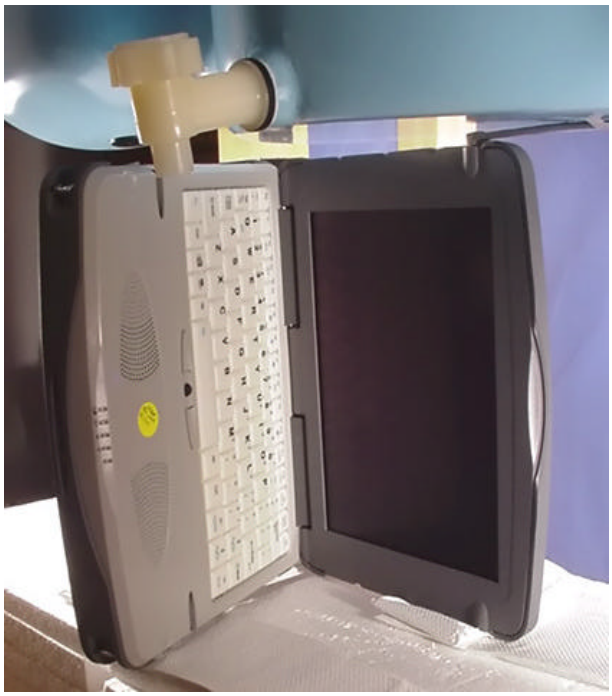


APPENDIX D - SAR TEST SETUP PHOTOGRAPHS

BODY SAR TEST SETUP PHOTOGRAPHS
0.25cm Separation Distance



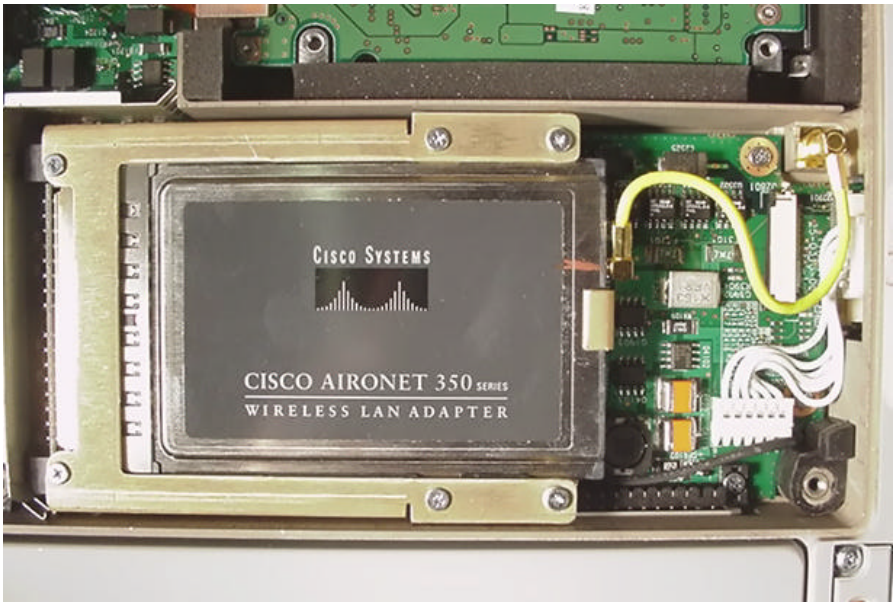
BODY SAR TEST SETUP PHOTOGRAPHS
0.25cm Separation Distance



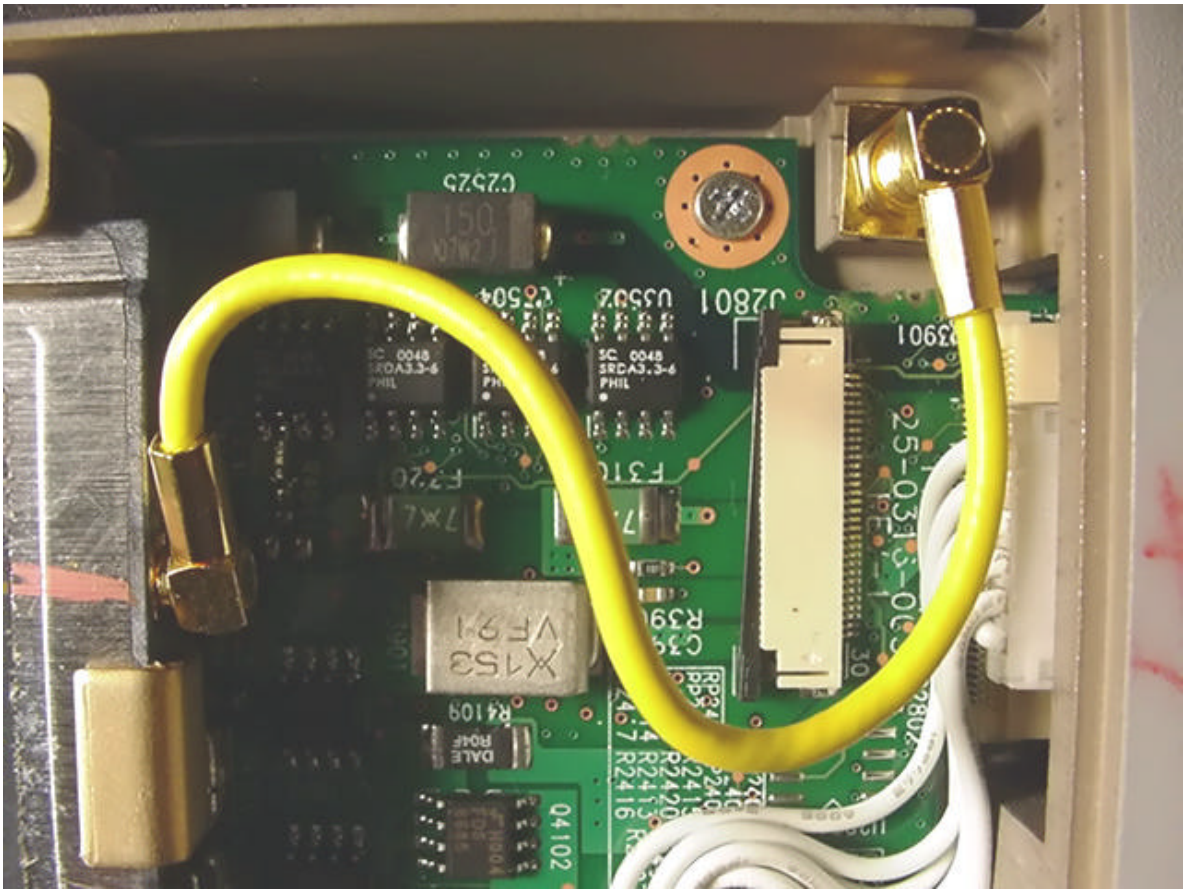
APPENDIX E - EUT PHOTOGRAPHS

EUT PHOTOGRAPHS

EUT PHOTOGRAPHS



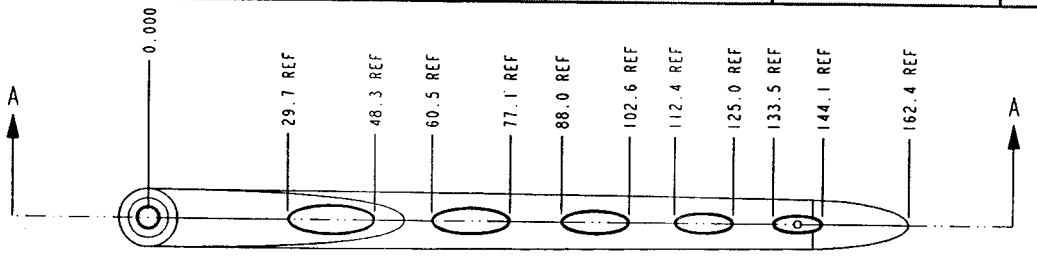
EUT PHOTOGRAPHS

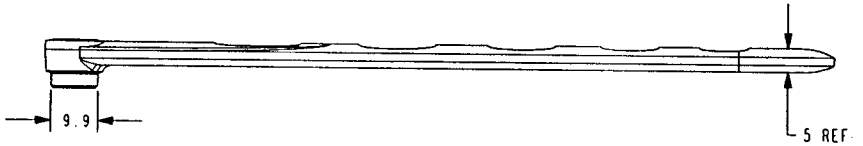


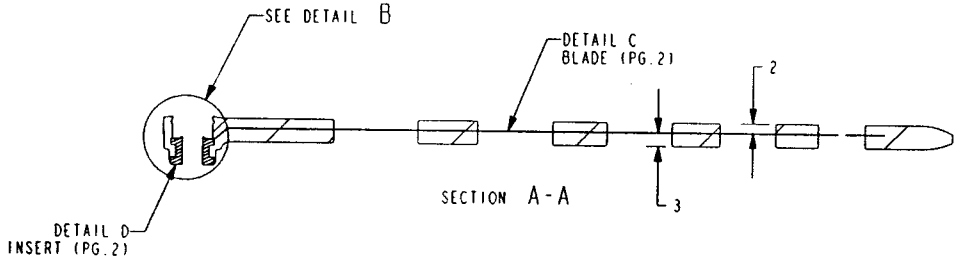
EUT PHOTOGRAPHS

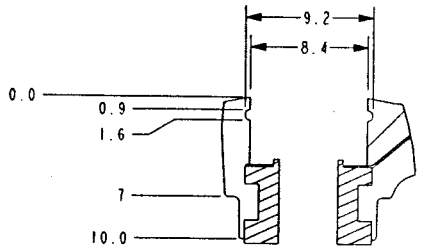
EUT PHOTOGRAPHS

APPENDIX F - ANTENNA SPECIFICATIONS









DETAIL B
SCALE 3.000

NOTES: (UNLESS OTHERWISE SPECIFIED).

■ DENOTES CRITICAL DIMENSION.

● DENOTES PROCESS CONTROL DIMENSION.

1. MATERIAL: SNTOPRENE 221-80, SHORE A
2. TEXTURE: MT 11010
3. COLOR: PANTONE 432U (DARK GRAY)
4. EJECTION PIN WITNESS MARK: FLUSH TO 0.25MM
5. ALL GATING AND EJECTION SYSTEMS TO BE APPROVED BY ITRONIX ENGINEERING.
6. FLASH ALLOWANCE: 0.13MM
7. GATE TO BE FLUSH WITHIN 0.5MM
8. ALL PART(S) TO BE CLEAN AND FREE FROM CONTAMINANTS, NICKS, SCRATCHES AND OTHER VISUAL DEFECTS.
9. ALL UNSPECIFIED GEOMETRY SHALL MATCH ITRONIX SUPPLIED DATABASE GENERATED FROM MODEL WHICH MATCHES THIS DRAWING. TOLERANCE UNSPECIFIED DIMENSIONS SHALL MATCH TOLERANCE BLOCK BELOW.
10. PART(S) SHALL BE ADEQUATELY PACKAGED TO PREVENT DAMAGE IN SHIPMENT AND HANDLING.

ZONE	REV.	ECO	BY	DESCRIPTION OF CHANGE	APP.	DATE
	01		KAK	RELEASE		04/02/01

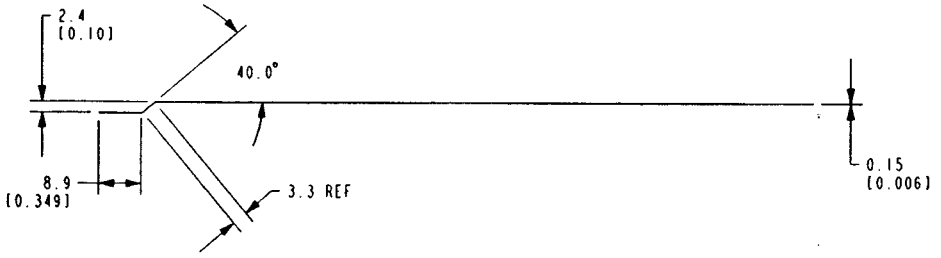
UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN MILLIMETERS
DO NOT SCALE DRAWING

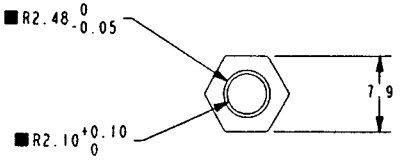
TOL. EXCEPT AS NOTED
X ± 0.5 MM
X.X ± 0.25 MM
X.XX ± 0.125 MM
ANG. ± 1.0°

THIRD ANGLE PROJECTION

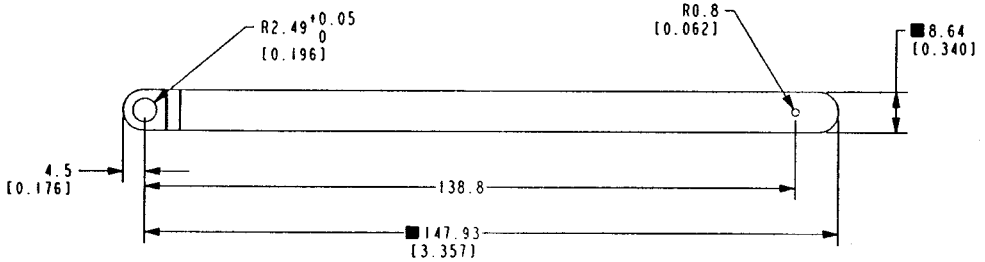
ITRONIX
5801 STEVENS, P.O. BOX 179
SPOKANE, WA 99210

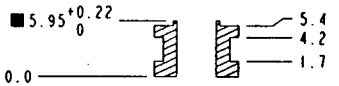
DRAFTER KAKracher	DATE 04-02-01	DESCRIPTION: ANTENNA, 6 INCH, IX550
CHECKER	DATE	
ELEC. ENG	DATE	SIZE B — DWG. NO 47-0116-002
MECH. ENG KAKracher	DATE 04-02-01	SCALE 1.000 — SHEET 1 OF 2 — REV 1
MFG. ENG	DATE	





SCALE 2.0





SECTION A-A
SCALE 2.000

DETAIL C
1. MATERIAL: STAINLESS STEEL, FULL HARD (0.006 IN) 0.152MM
2. DEBBUR AND BREAK SHARP EDGES.

DETAIL D
1. MATERIAL: 5/16 HEX BRASS
2. FINISH: TO BE FREE OF DIRT AND OILS. MACHINED SURACES TO BE 63 MICROINCHES RMS OR BETTER
3. DEBBUR AND BREAK SHARP EDGES.

ZONE	REV.	ECO	BY	DESCRIPTION OF CHANGE	APP.	DATE
	01		KAK	RELEASE		04/02/01

UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN MILLIMETERS
DO NOT SCALE DRAWING

TOL. EXCEPT AS NOTED
X ± 0.5 MM
X.X ± 0.25 MM
X.XX ± 0.125 MM
ANG. ± 1.0°

THIRD ANGLE PROJECTION

ITRONIX
5.001 STEVENS, P.O. BOX 179
SPOKANE, WA 99210

DRAFTER &drafter	DATE 04-02-01	
CHECKER	DATE	
ELEC. ENG	DATE	
MECH. ENG &mech_eng	DATE 04-02-01	
MFG. ENG	DATE	

DESCRIPTION: ANTENNA, 6 INCH, IX550

SIZE	DWG. NO	REV
B	47-0116-002	
SCALE 1.000	SHEET 2 OF 2	1