

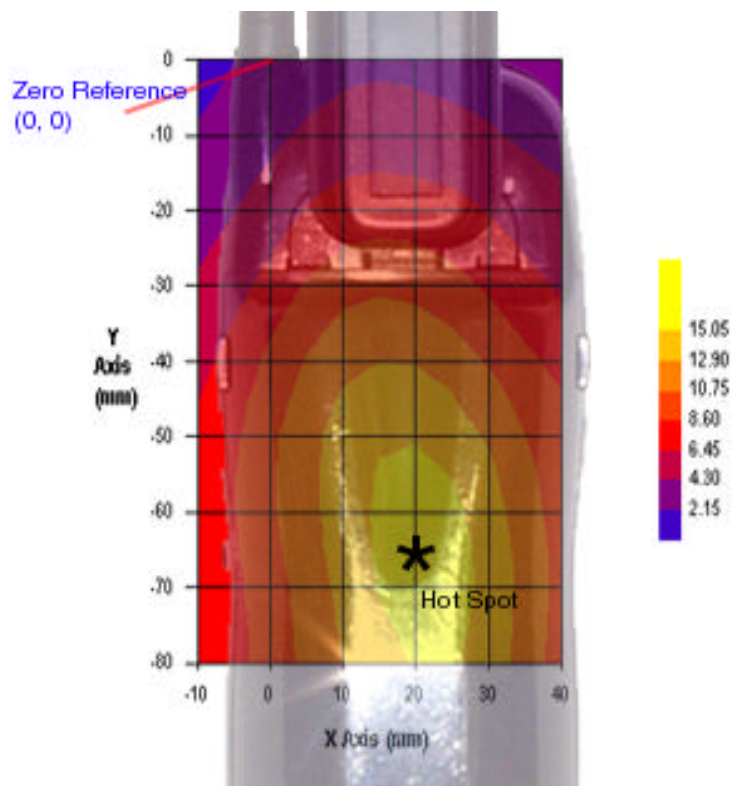
Positioning of the radio

The surface of the radio is always in parallel with the phantom's shell and accessories (belt-clip and head-set) are equipped as shown below.

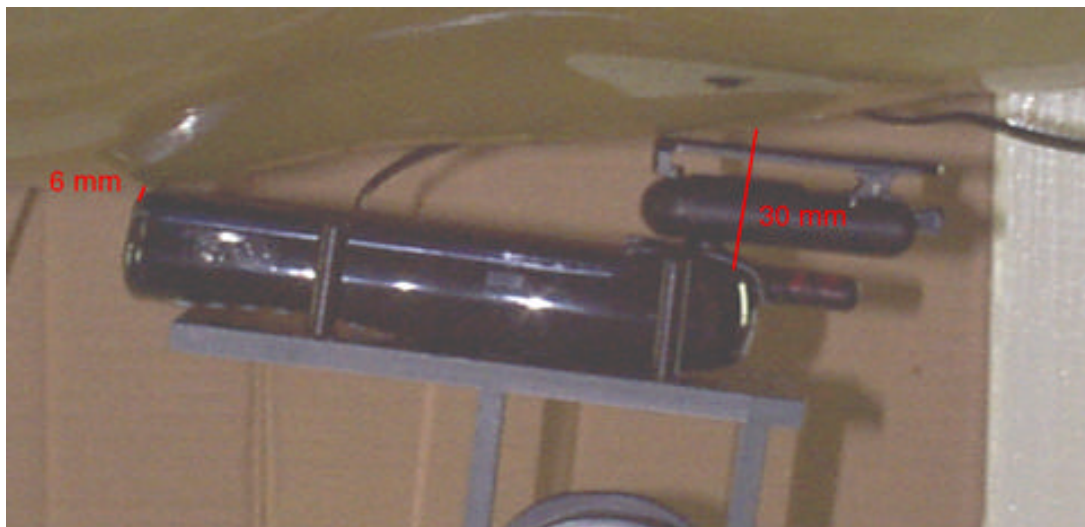


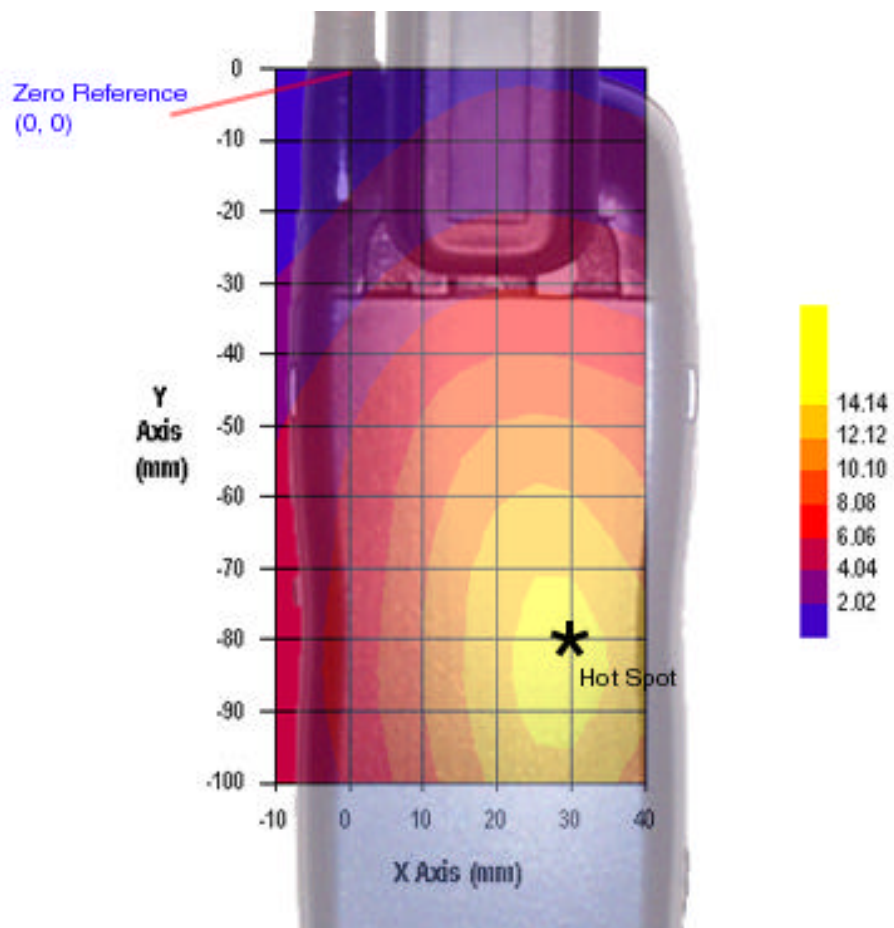
- With High Capacity Battery





- With Low Capacity Battery





Index of the measurements

The following results of measurement are ordered as listed below.

Radio with High capacity battery

A800 mode

@ low frequency	(SAR:1.00)
@ middle frequency	(0.97)
@ high frequency	(1.03)

D800 mode

@ low frequency	(0.41)
@ middle frequency	(0.36)
@ high frequency	(0.37)

D1900 mode

@ low frequency	(0.11)
@ middle frequency	(0.11)
@ high frequency	(0.10)

Radio with Low capacity battery

A800 mode

@ high frequency	(0.97)
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Electrical characteristic of Simulated tissue

Muscle tissue @ 835 MHz

Muscle tissue @ 1900 MHz

Test Information

Date : 11/10/99
Time : 11:36:22 AM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF06A

Test : SAR
Frequency (MHz) : 825
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : CW

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 49.1
Conductivity : 1.15

Probe : E
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 0.72
Calibrated Date : 3/24/99

Antenna Position : FIX
Measured Power (W) : 0.378
(conducted)
Cable Insertion Loss (dB) : 0.6
Compensated Power (W) : 0.434

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0039 Channel 3 : 0.0031

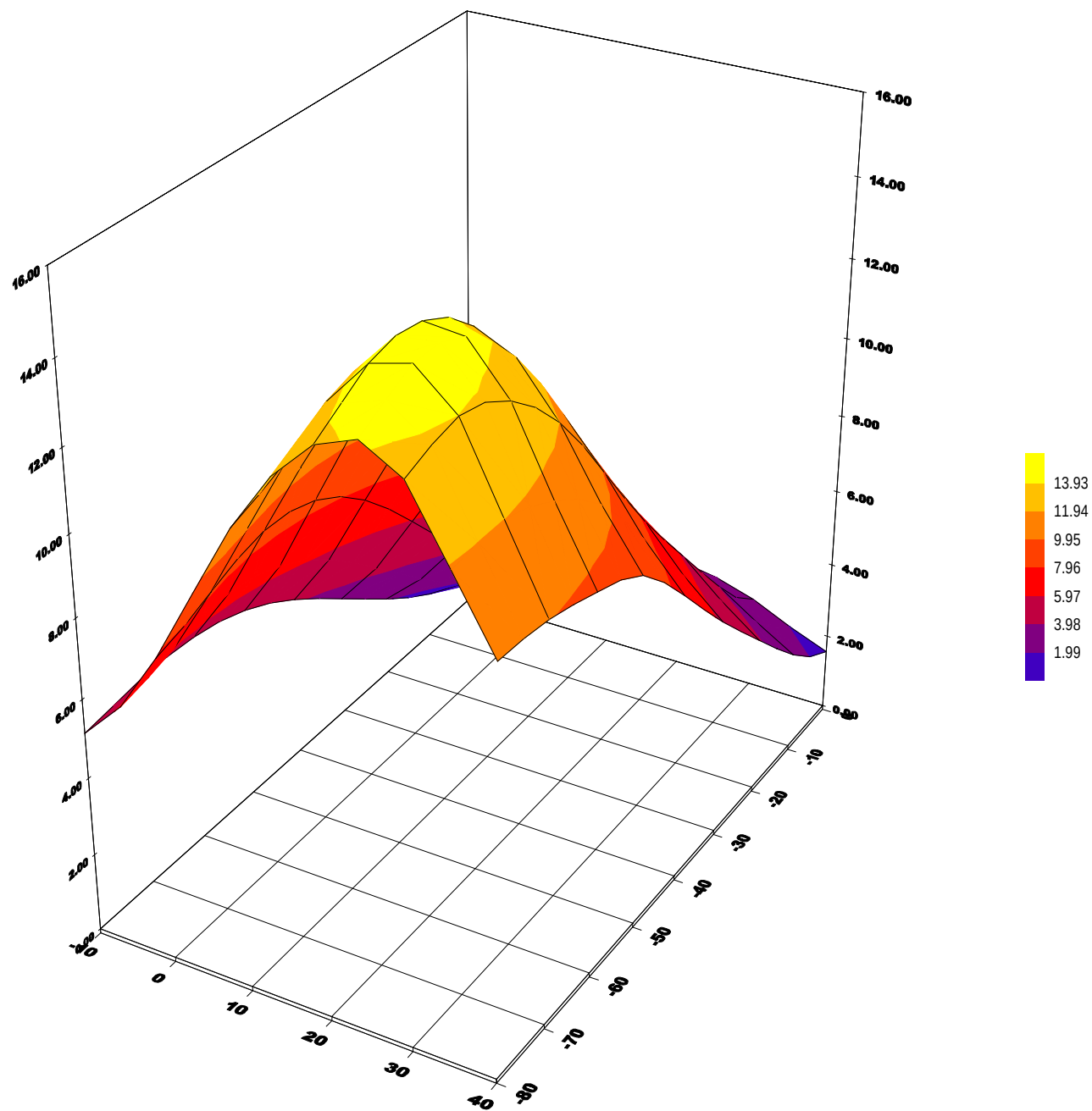
Location of Maximum Field :

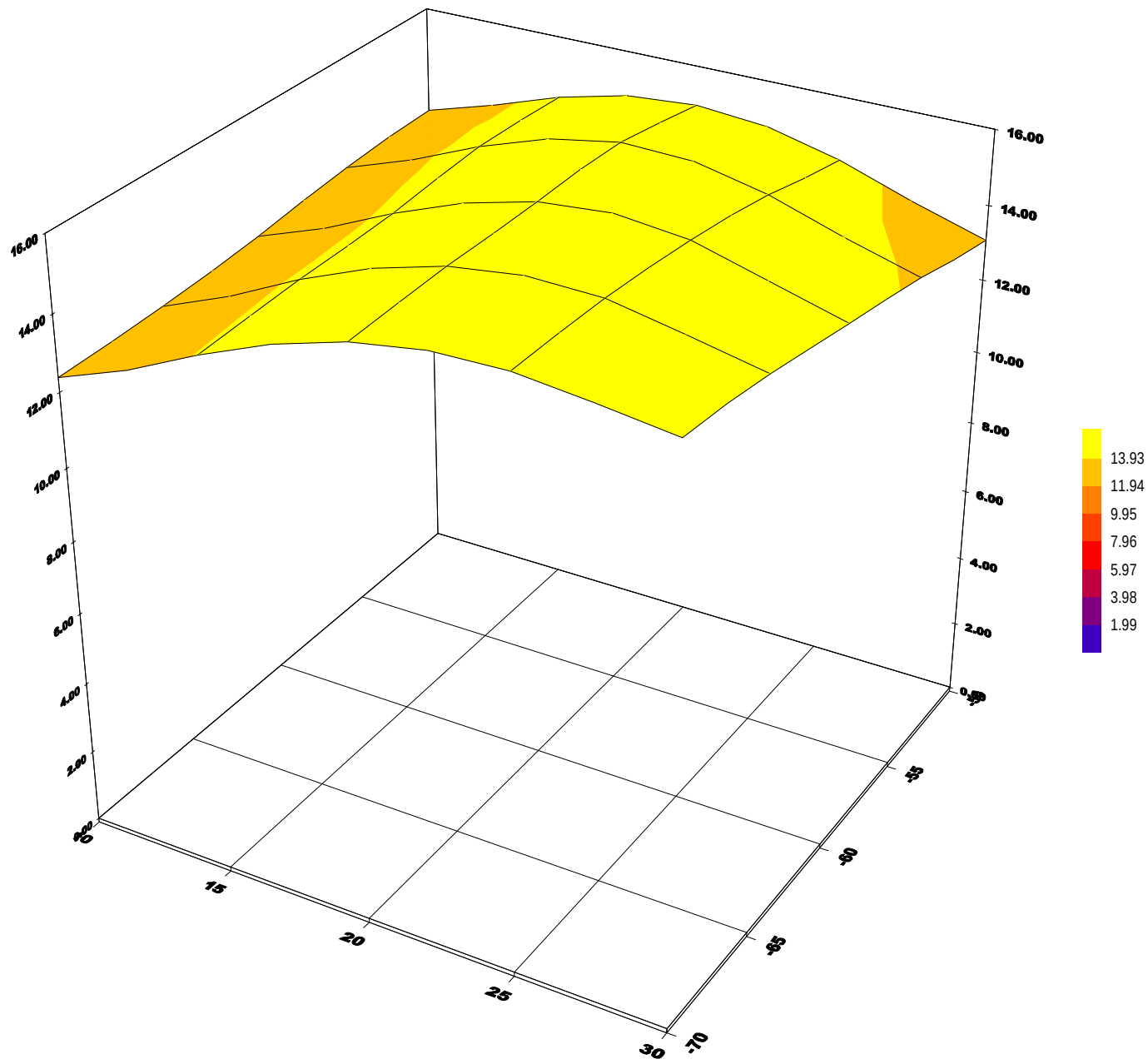
X = 25 Y = -65

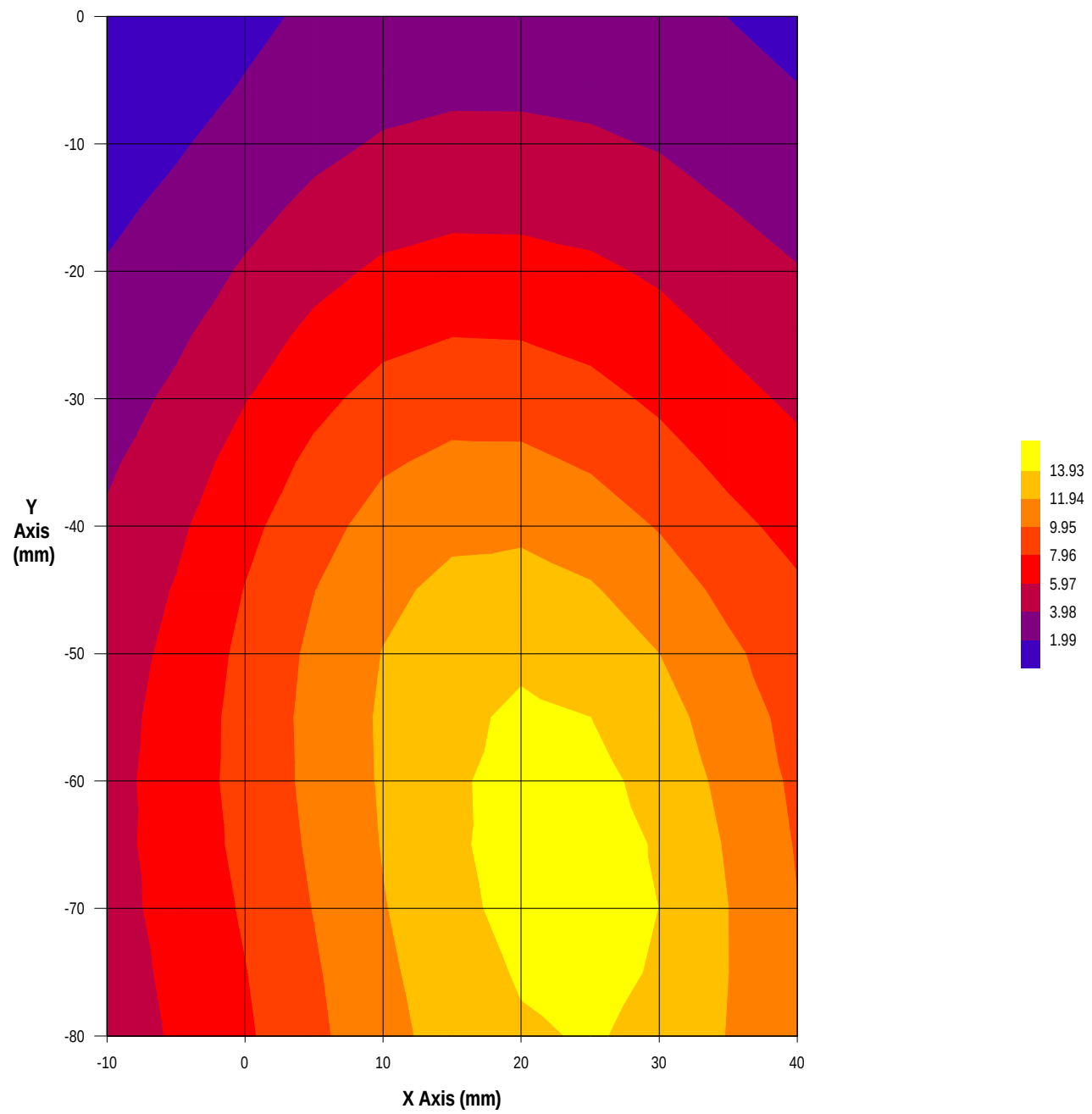
Measured Values (mV) :

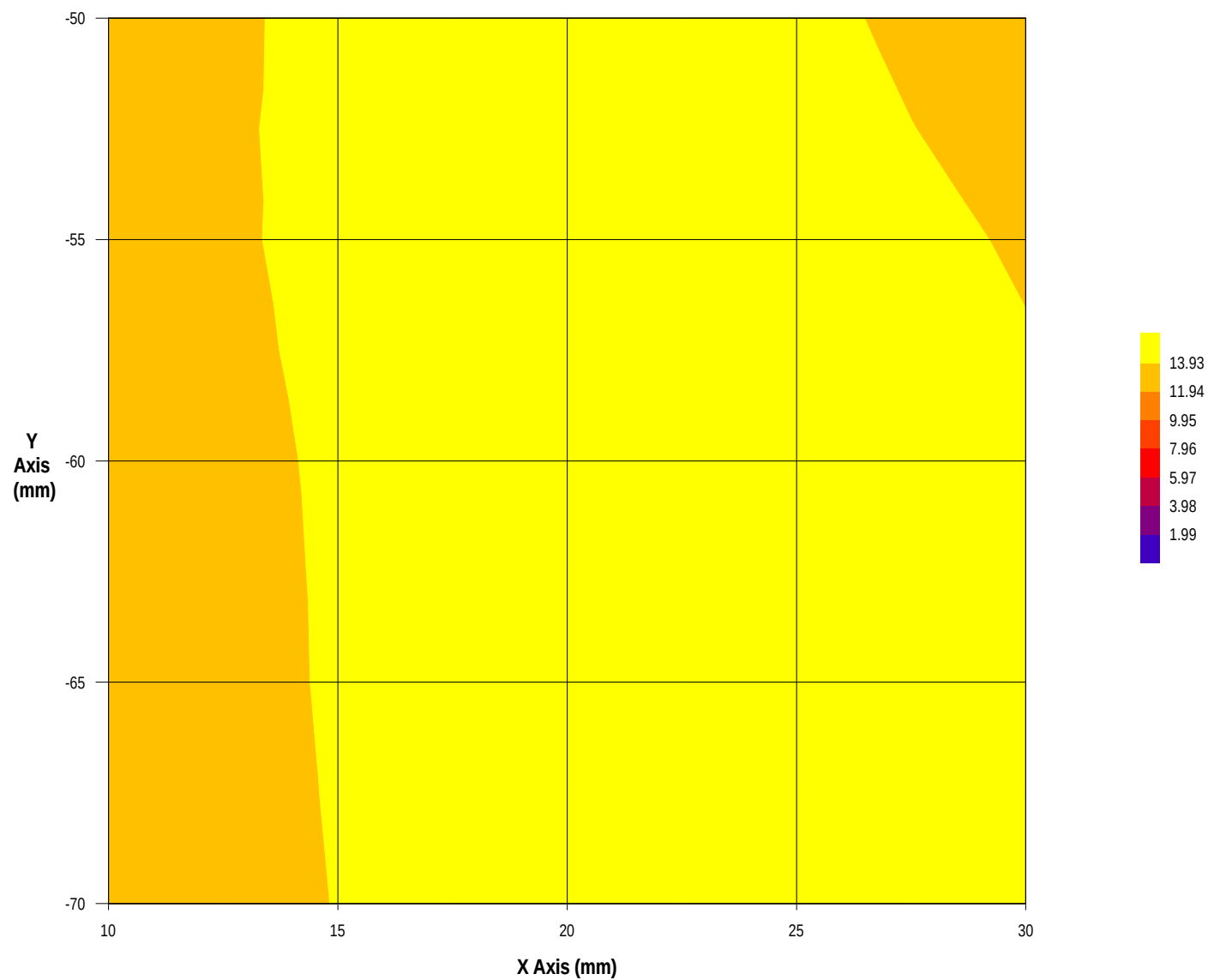
16.40	10.41	6.92	4.56	2.85	1.68
1.13	0.71	0.40	0.18	0.03	

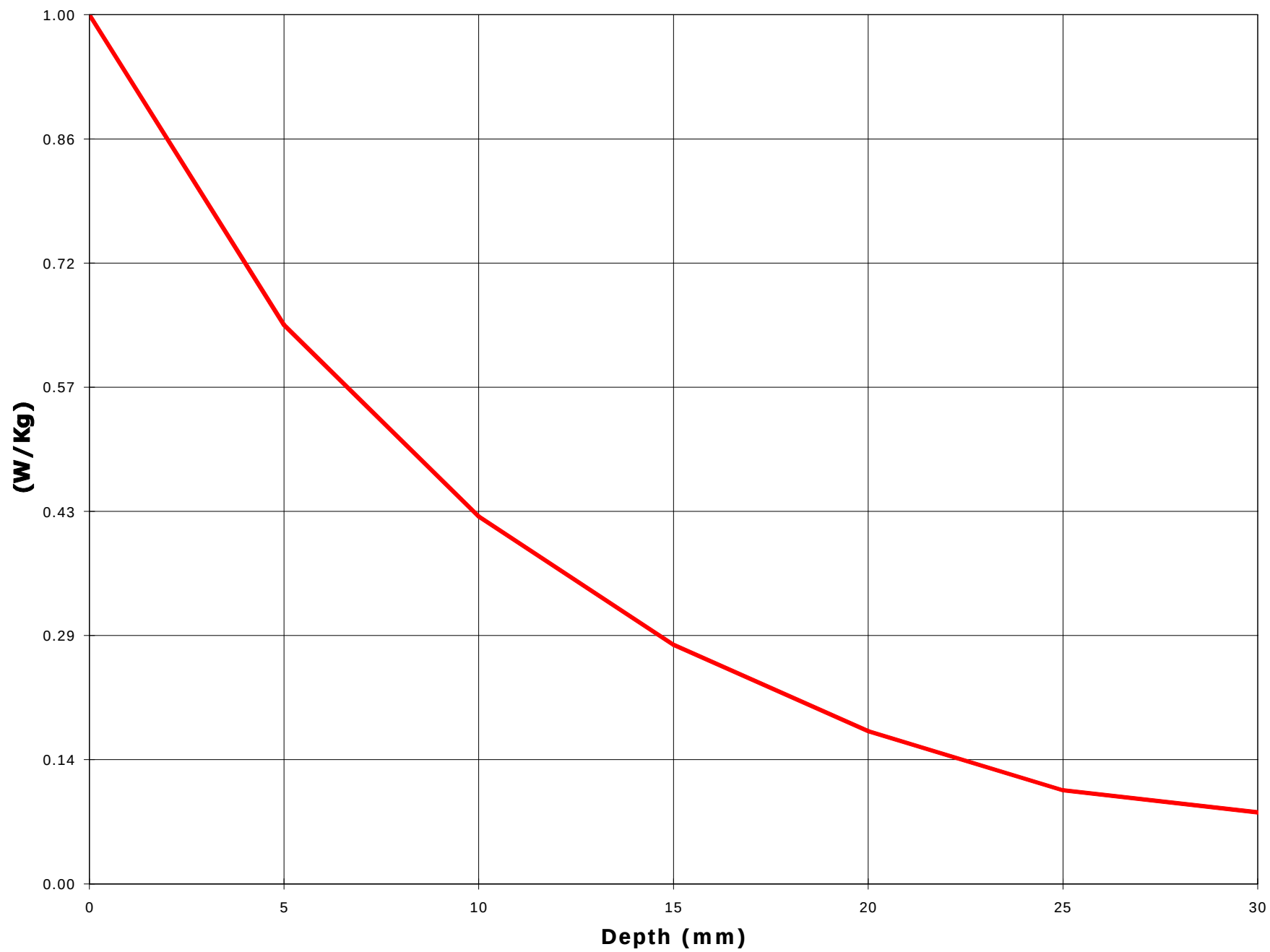
Peak Voltage (mV) : 21.24 1 Cm Voltage (mV) : 9.03 SAR (W/Kg) : 1.00











Test Information

Date : 11/10/99
Time : 12:47:01 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF06A

Test : SAR
Frequency (MHz) : 836
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : CW

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 49.1
Conductivity : 1.15

Probe : E
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 0.72
Calibrated Date : 3/24/99

Antenna Position : FIX
Measured Power (W) : 0.370
(conducted)
Cable Insertion Loss (dB) : 0.6
Compensated Power (W) : 0.425

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0039 Channel 3 : 0.0031

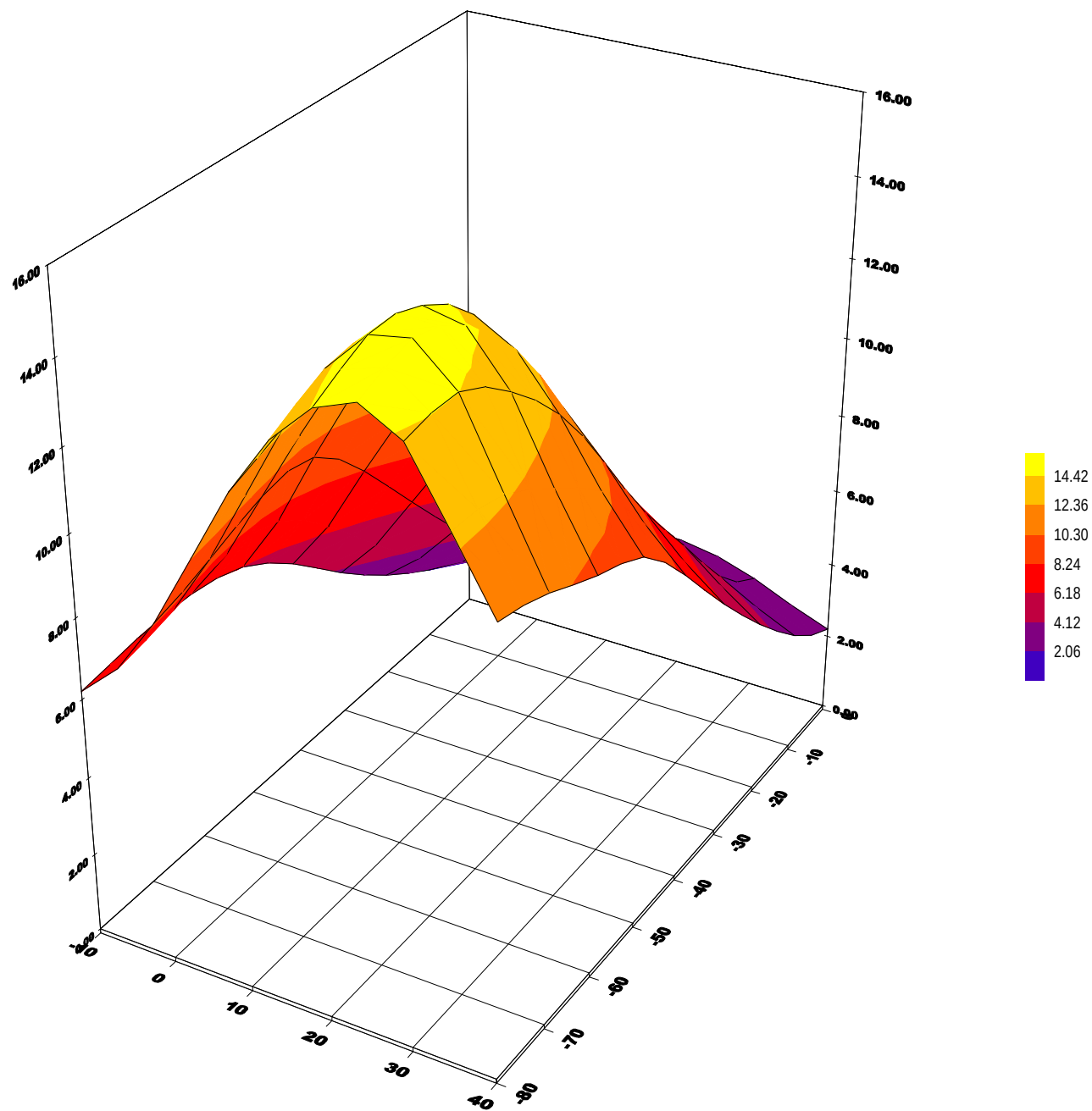
Location of Maximum Field :

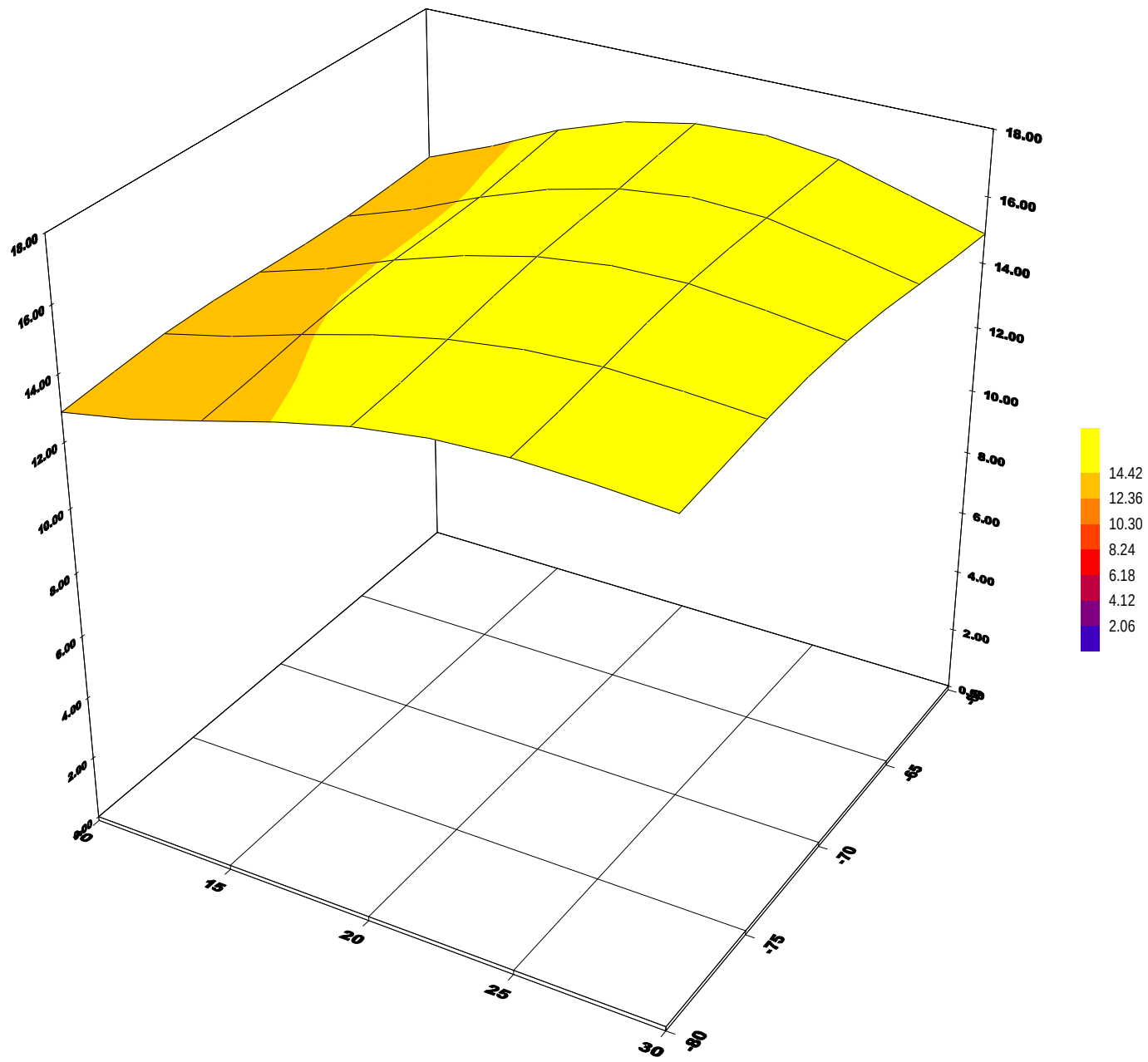
X = 20 Y = -60

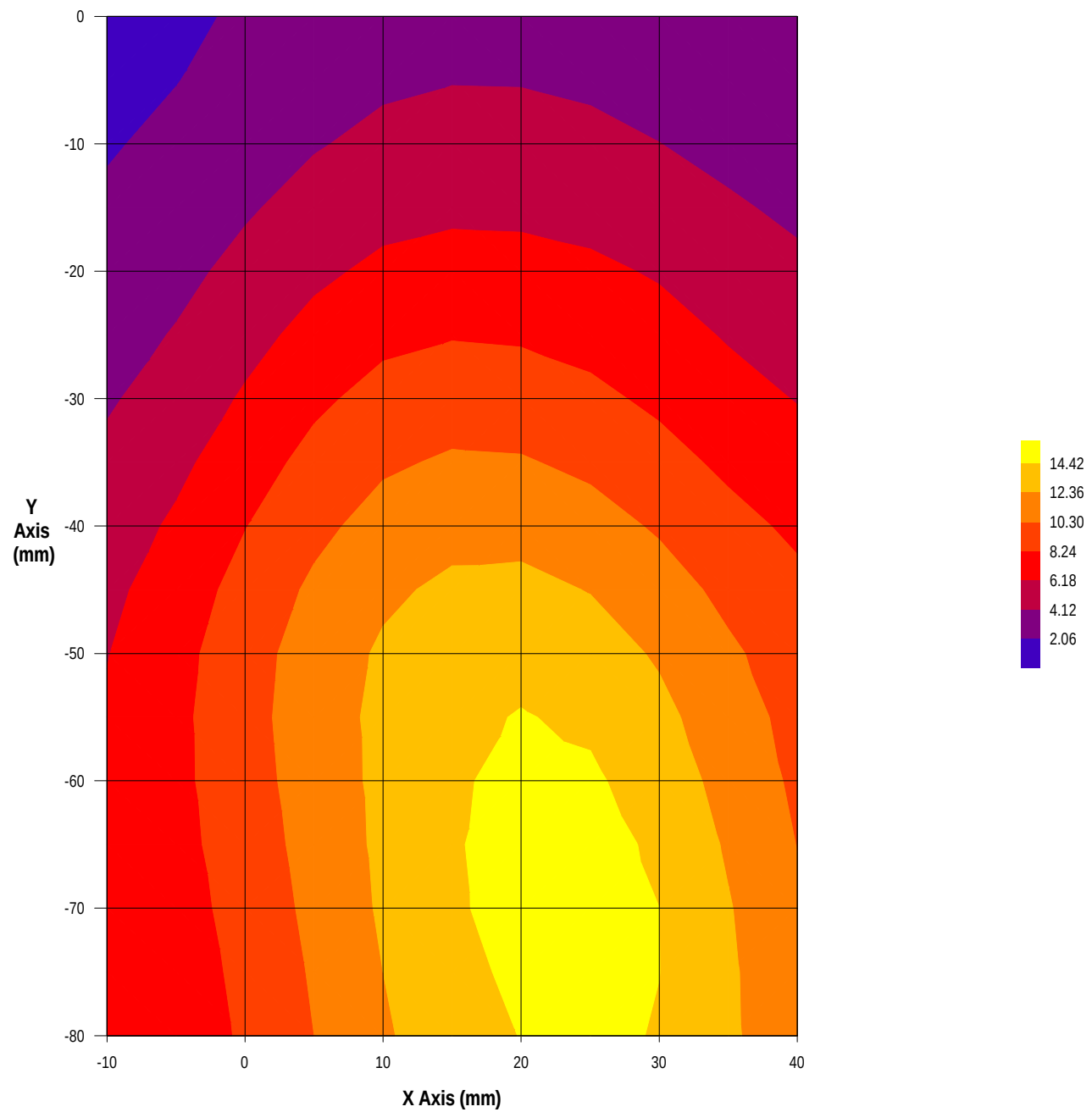
Measured Values (mV) :

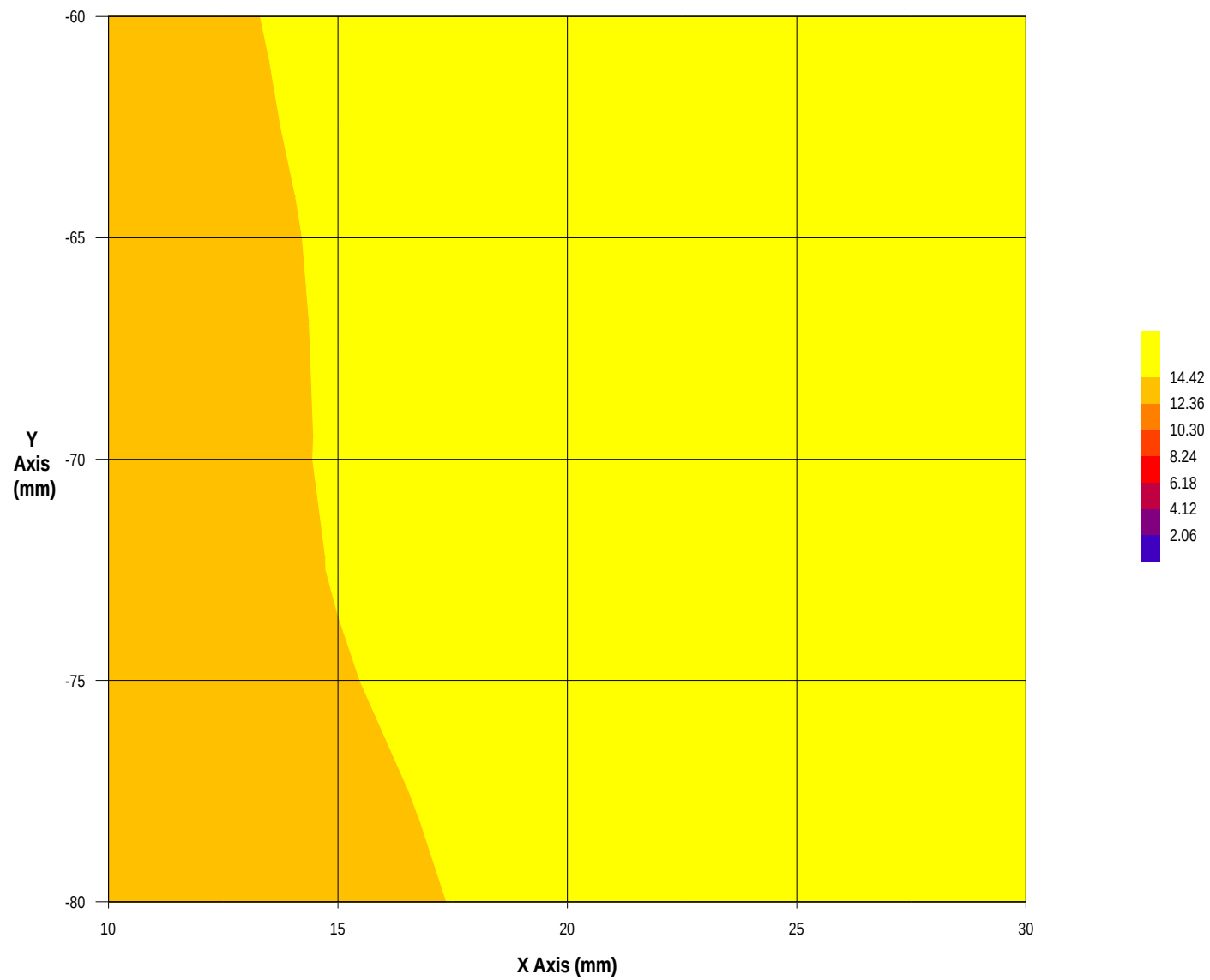
16.09	10.63	7.39	5.21	3.67	2.53
1.70	1.08	0.62	0.29	0.07	

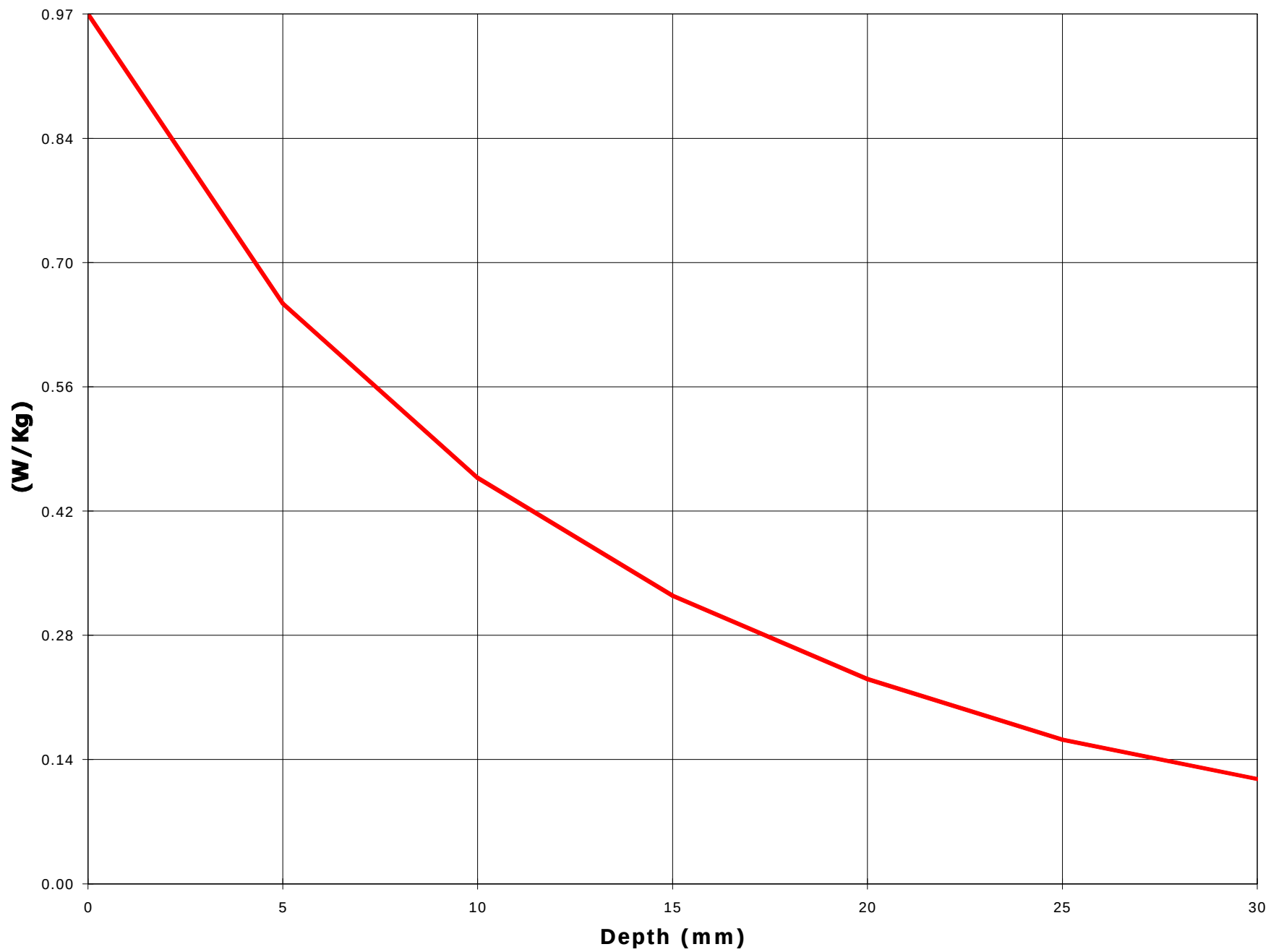
Peak Voltage (mV) : 20.33 1 Cm Voltage (mV) : 9.12 SAR (W/Kg) : 0.97











Test Information

Date : 11/10/99
Time : 1:36:47 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF06A

Test : SAR
Frequency (MHz) : 849
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : CW

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 49.1
Conductivity : 1.15

Probe : E
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 0.72
Calibrated Date : 3/24/99

Antenna Position : FIX
Measured Power (W) : 0.377
(conducted)
Cable Insertion Loss (dB) : 0.6
Compensated Power (W) : 0.433

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0039 Channel 3 : 0.0031

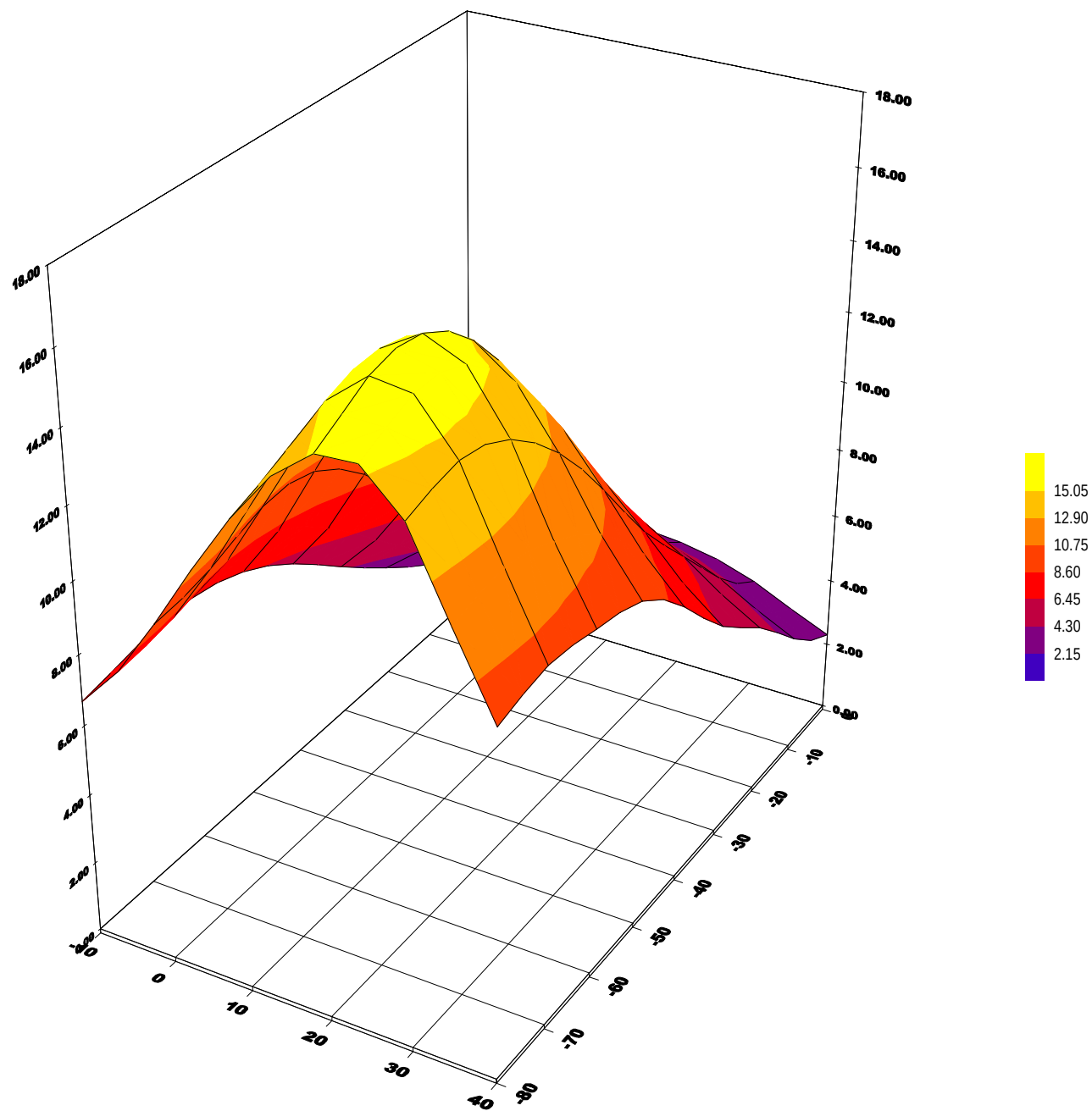
Location of Maximum Field :

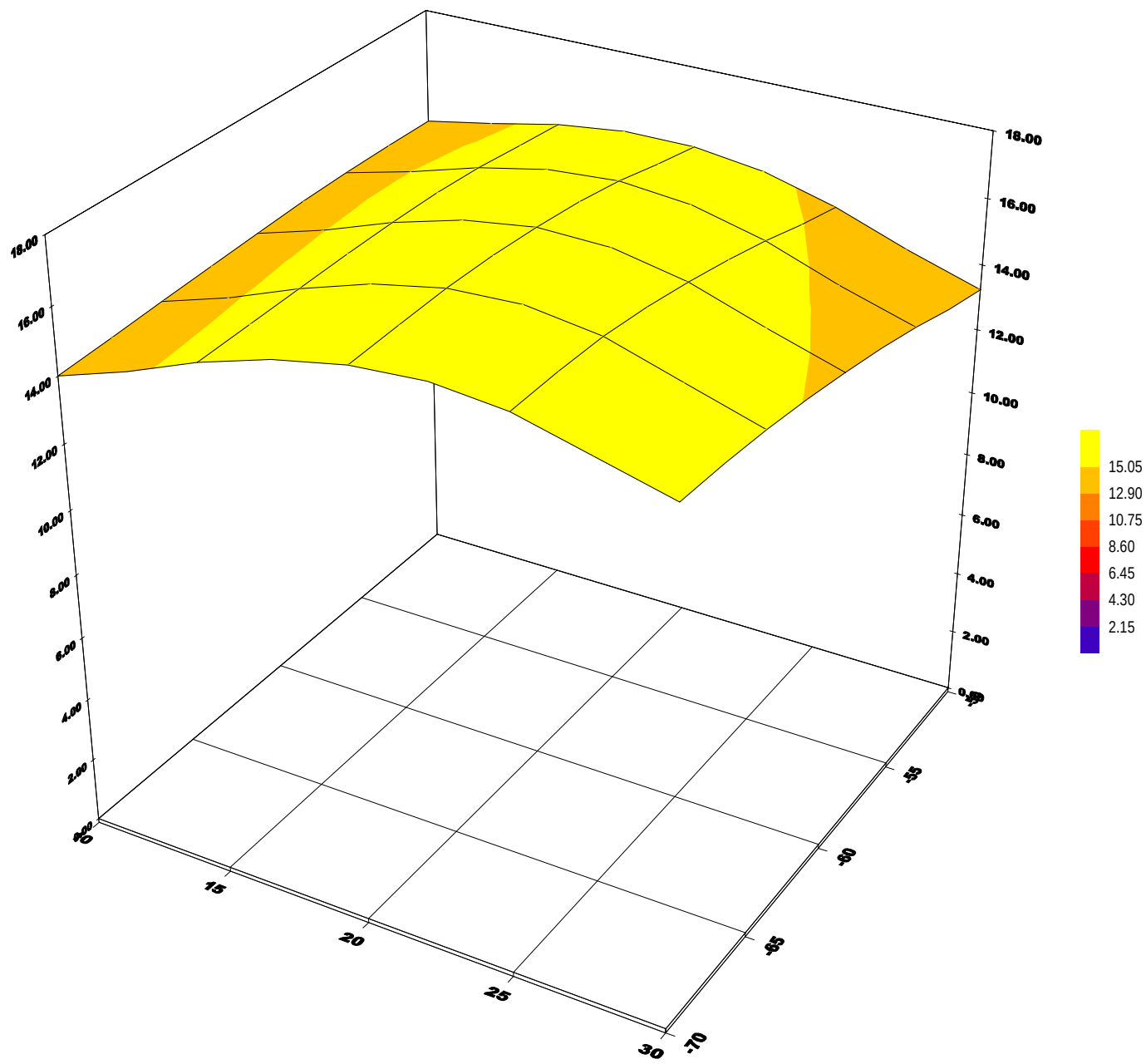
X = 20 Y = -65

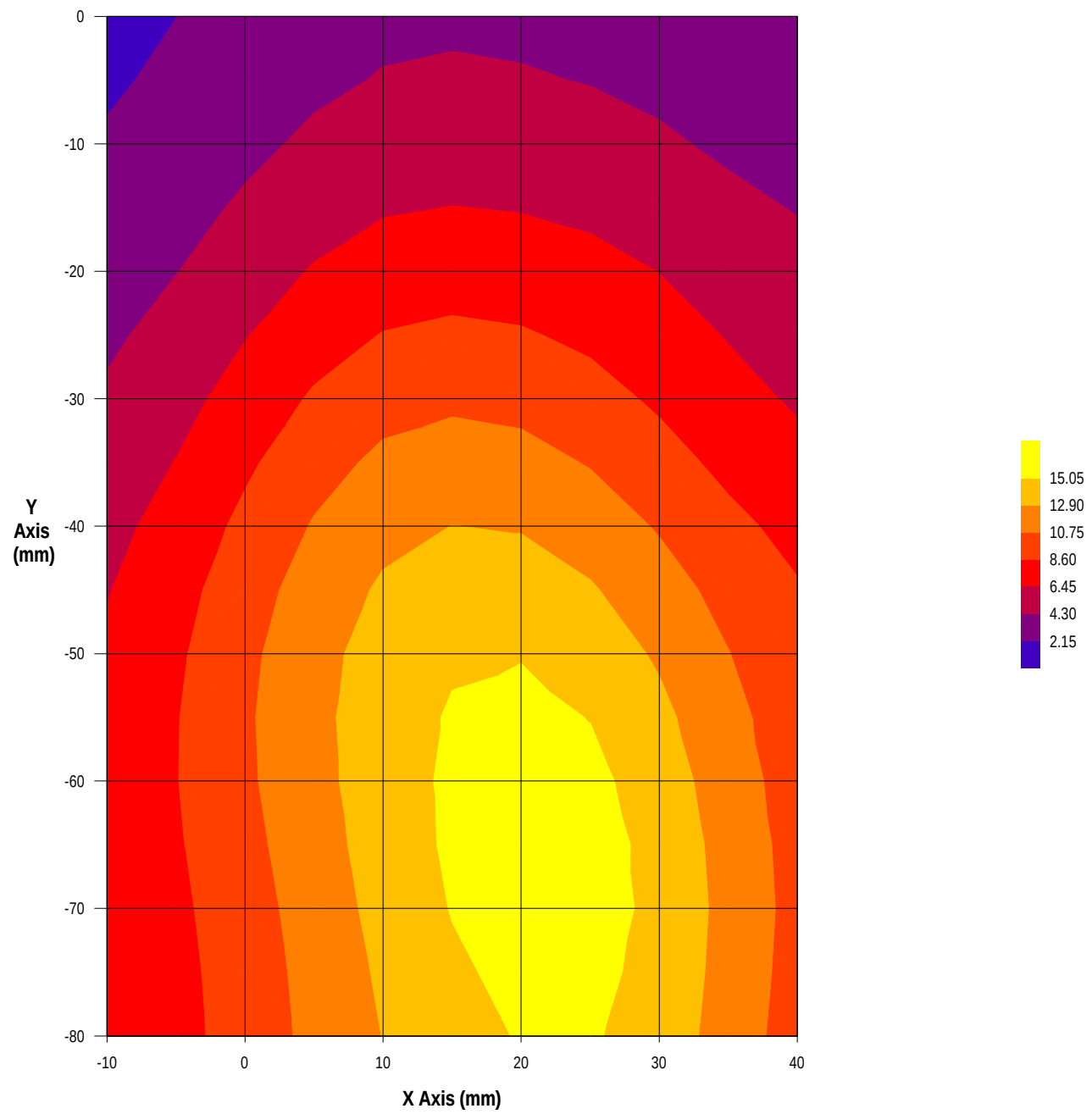
Measured Values (mV) :

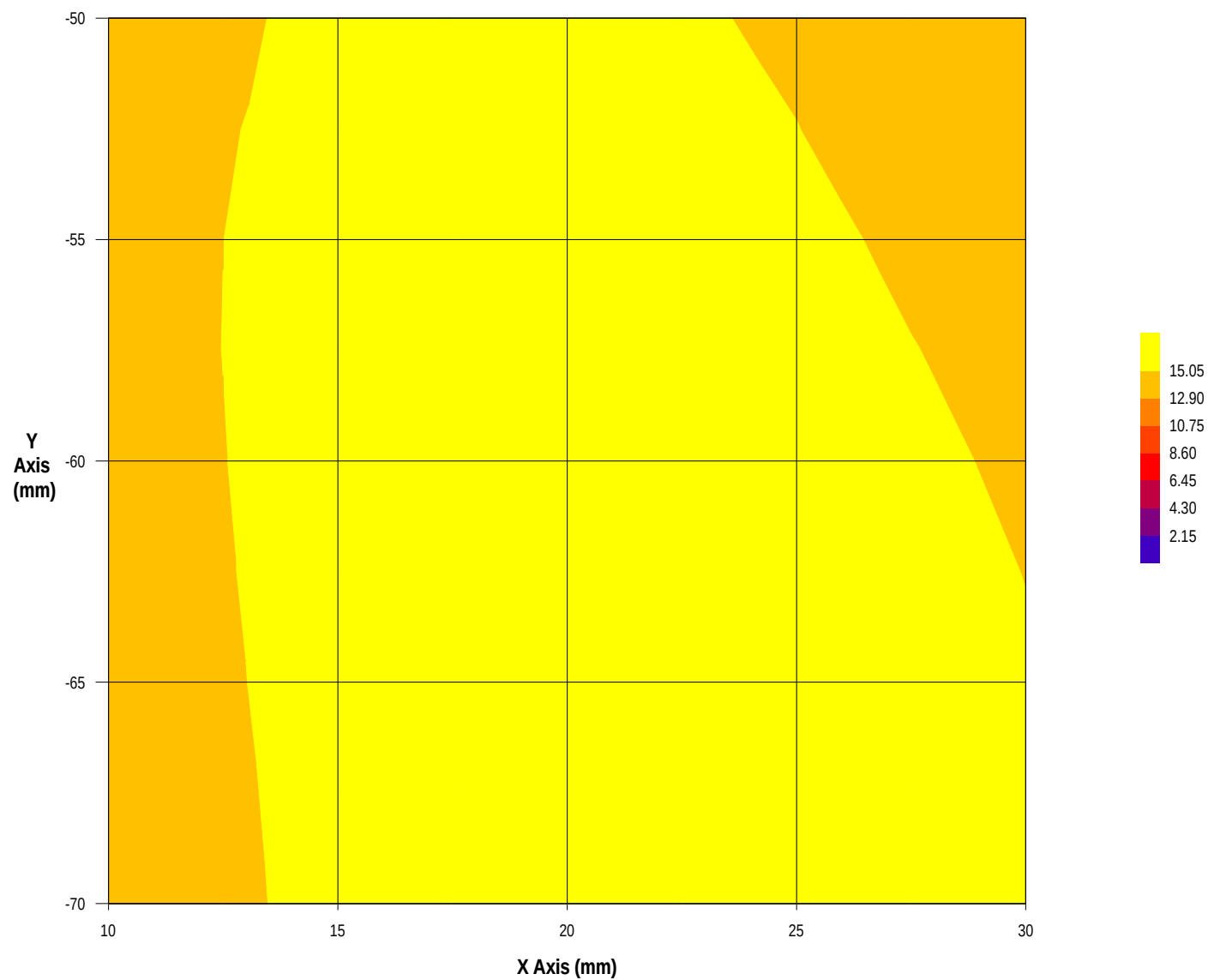
17.04	11.10	7.55	5.21	3.61	2.45
1.61	0.99	0.55	0.21	0.03	

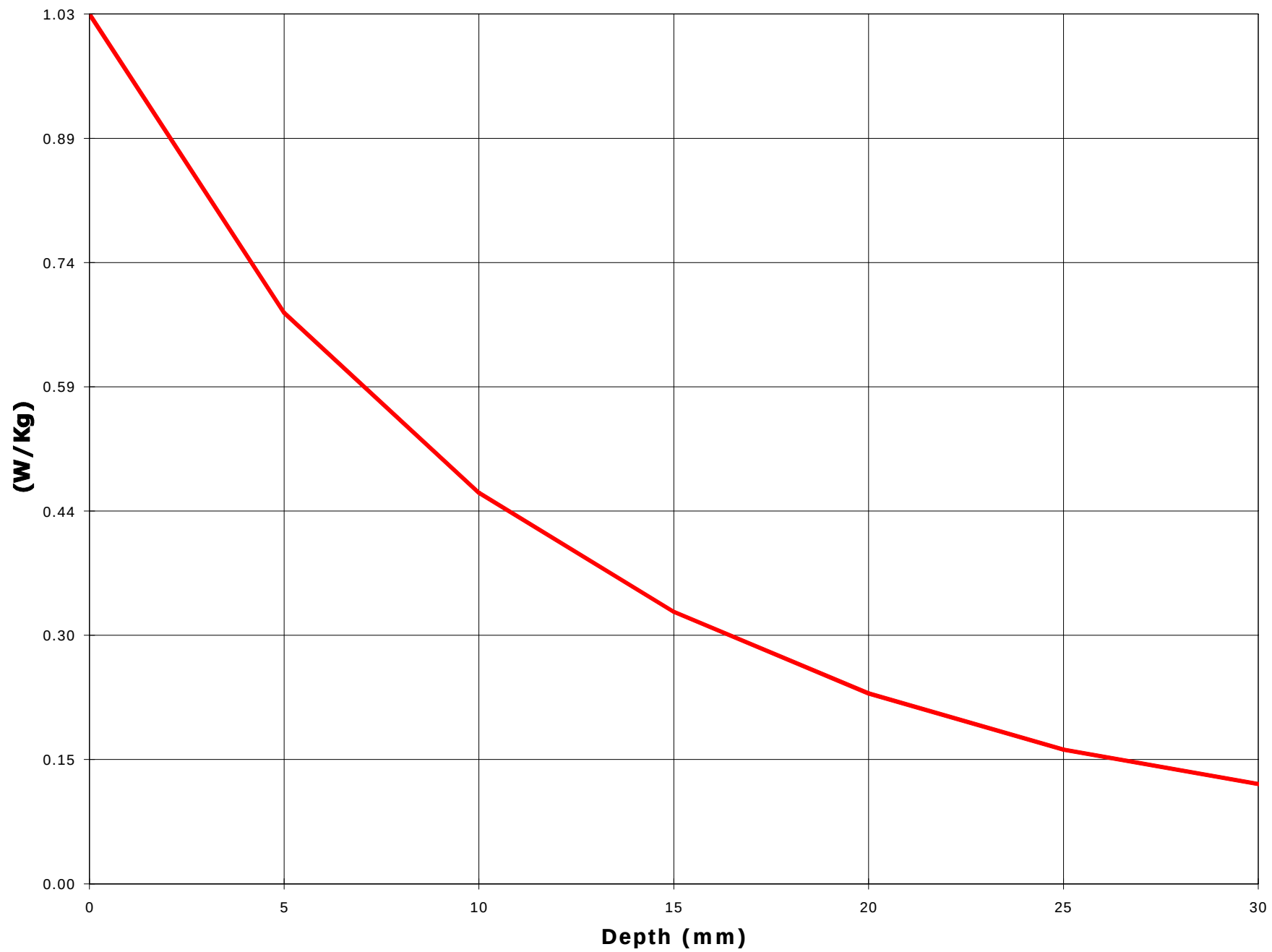
Peak Voltage (mV) : 21.76 1 Cm Voltage (mV) : 9.42 SAR (W/Kg) : 1.03











Test Information

Date : 11/10/99
Time : 2:12:38 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF06A

Test : SAR
Frequency (MHz) : 825
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : TDMA

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 49.1
Conductivity : 1.15

Probe : E
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 0.72
Calibrated Date : 3/24/99

Antenna Position : FIX
Measured Power (W) : 0.147
(conducted)
Cable Insertion Loss (dB) : 0.6
Compensated Power (W) : 0.169

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0039 Channel 3 : 0.0031

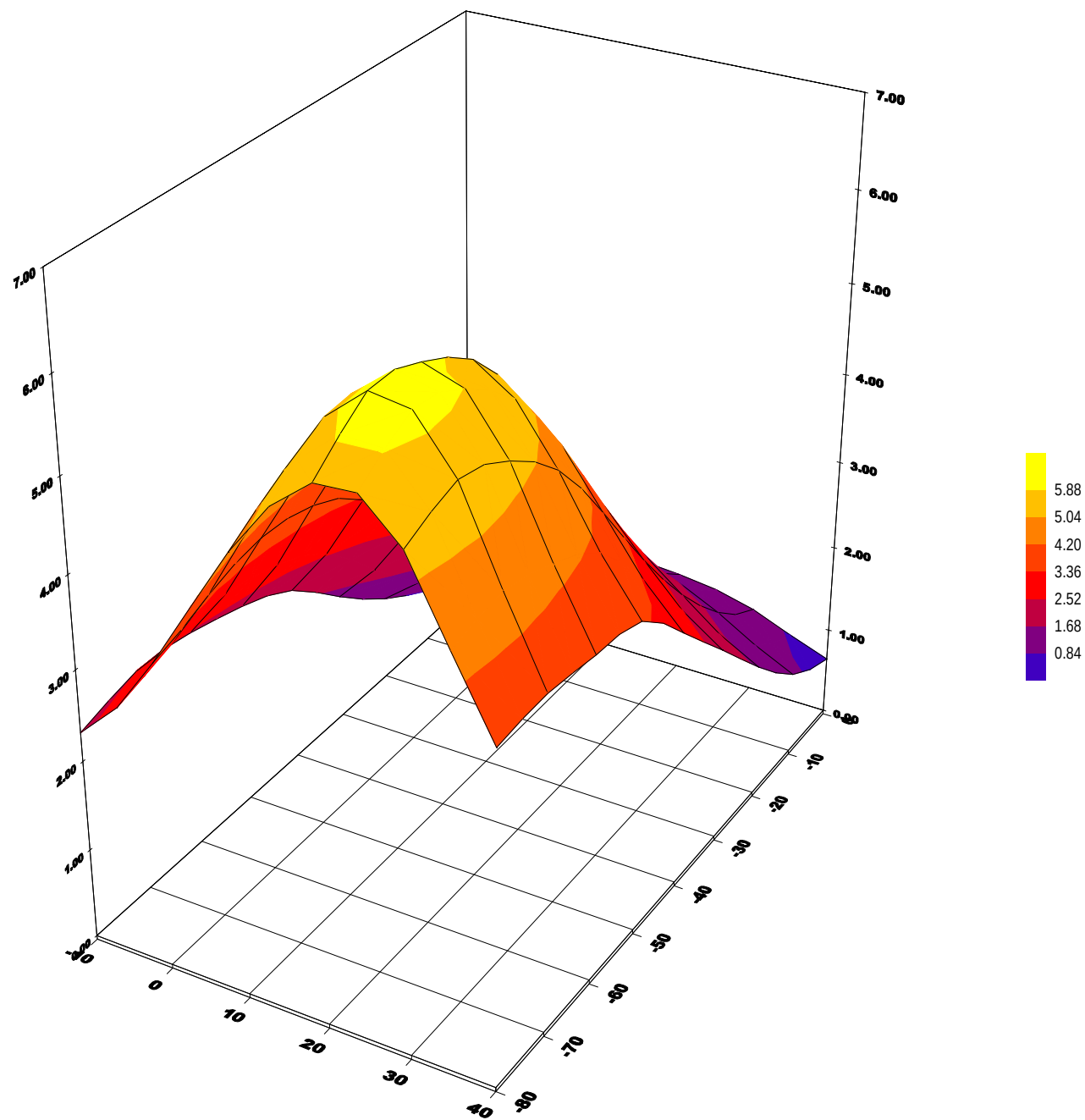
Location of Maximum Field :

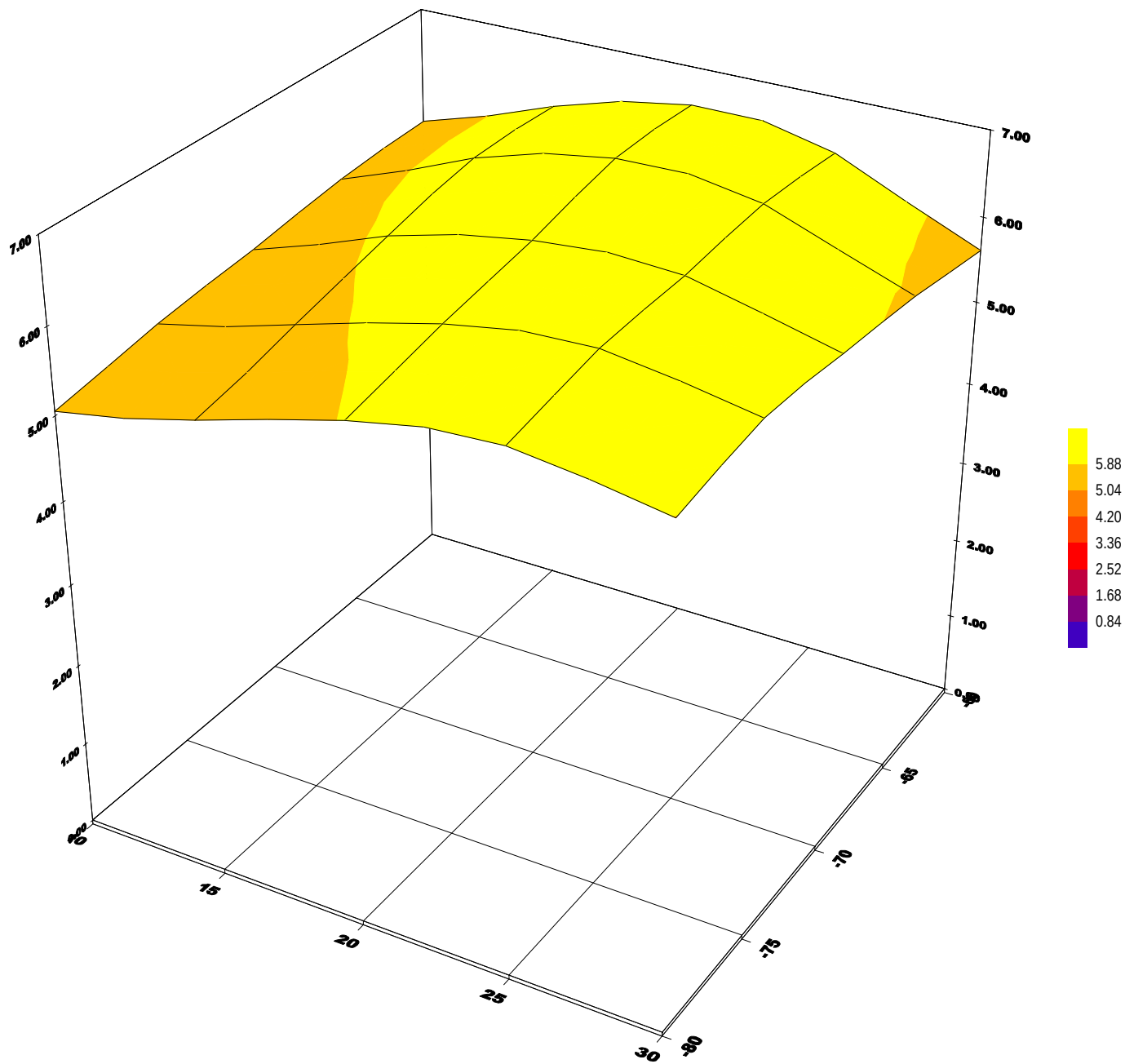
X = 20 Y = -65

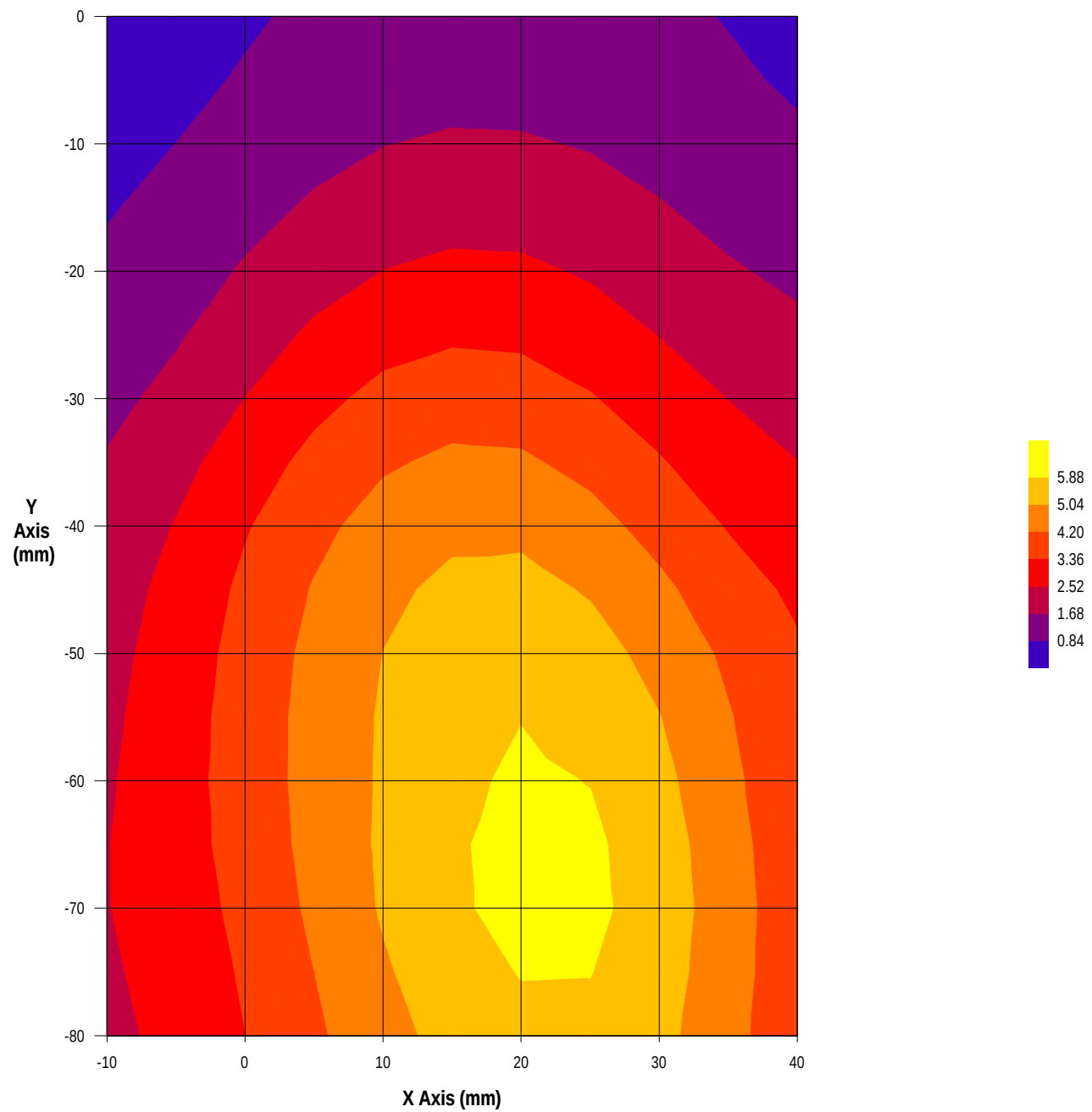
Measured Values (mV) :

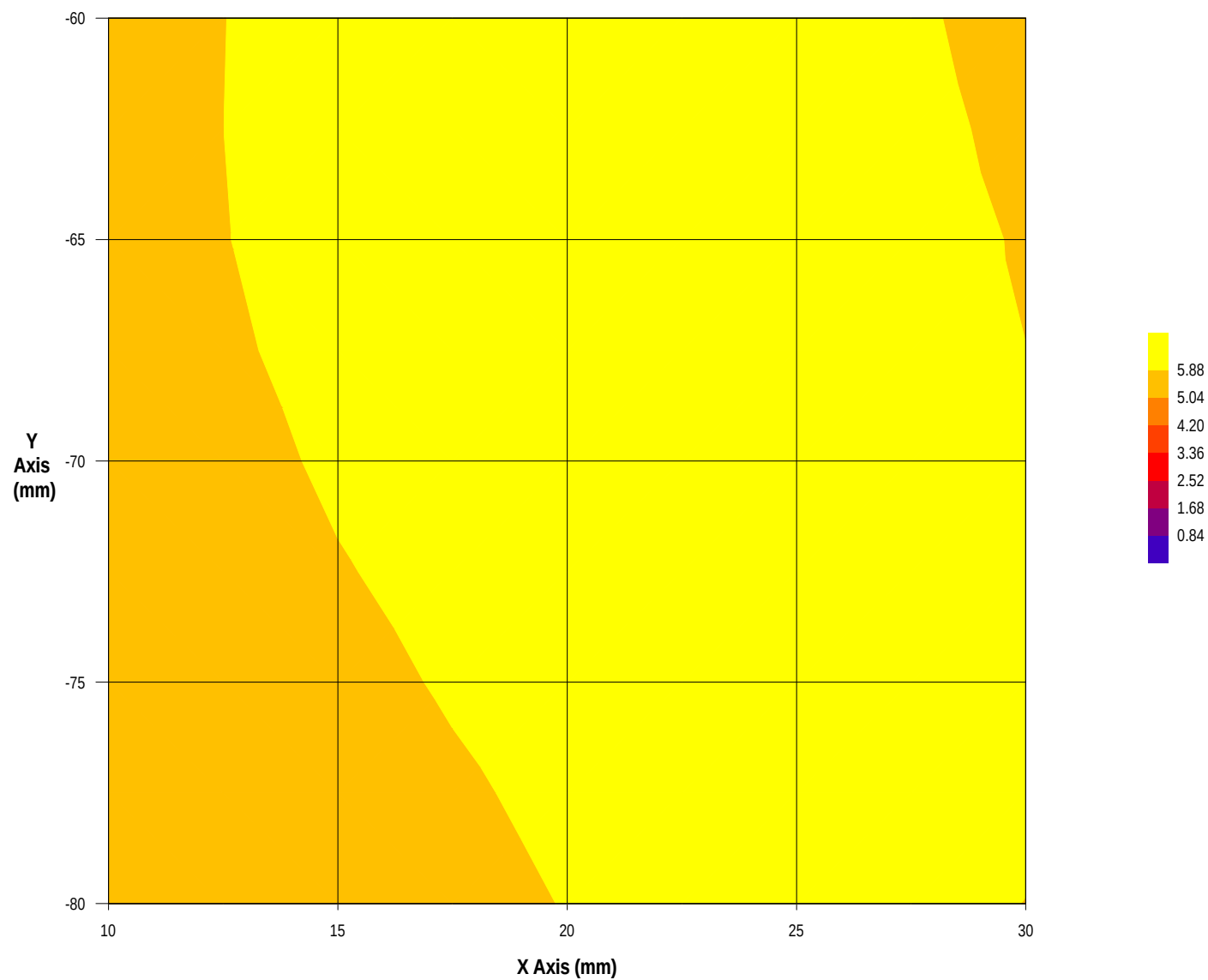
6.76	4.08	2.80	1.80	1.11	0.68
0.29	0.07	0.00	0.00	0.00	

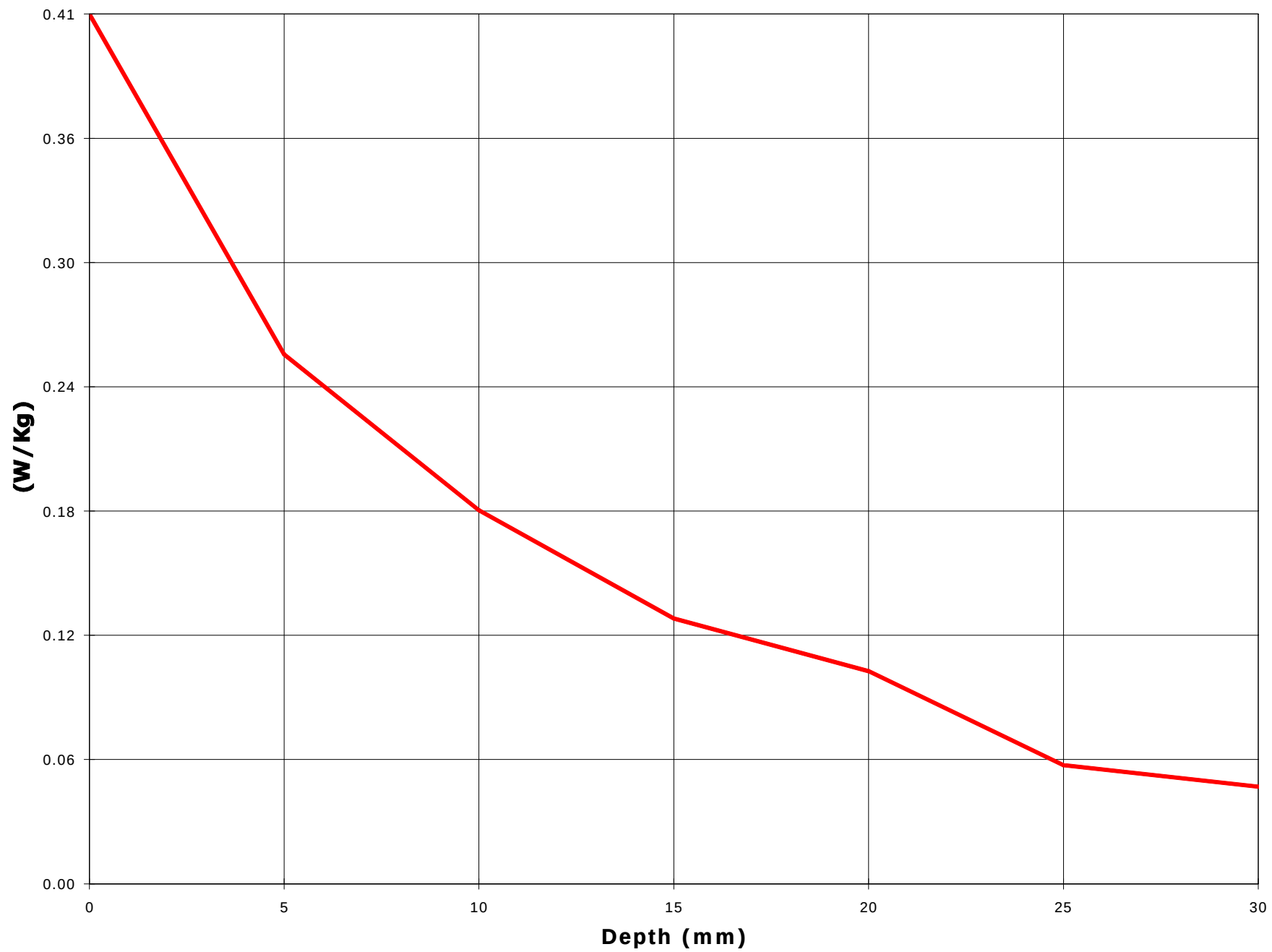
Peak Voltage (mV) : 8.81 1 Cm Voltage (mV) : 3.71 SAR (W/Kg) : 0.41











Test Information

Date : 11/10/99
Time : 2:25:57 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF0R6A

Test : SAR
Frequency (MHz) : 836
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : TDMA

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 49.1
Conductivity : 1.15

Probe : E
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 0.72
Calibrated Date : 3/24/99

Antenna Position : FIX
Measured Power (W) : 0.140
(conducted)
Cable Insertion Loss (dB) : 0.6
Compensated Power (W) : 0.161

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0039 Channel 3 : 0.0031

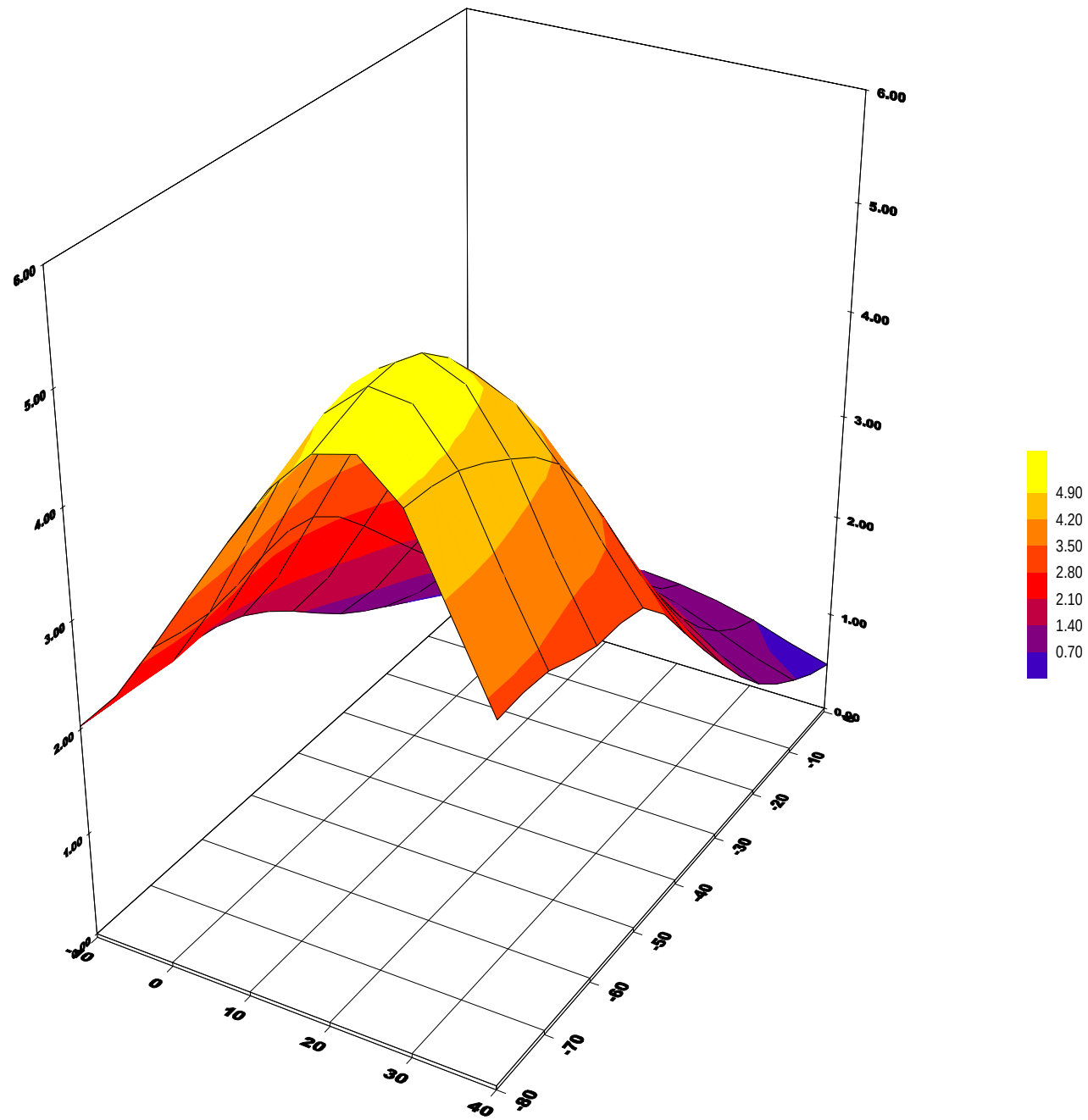
Location of Maximum Field :

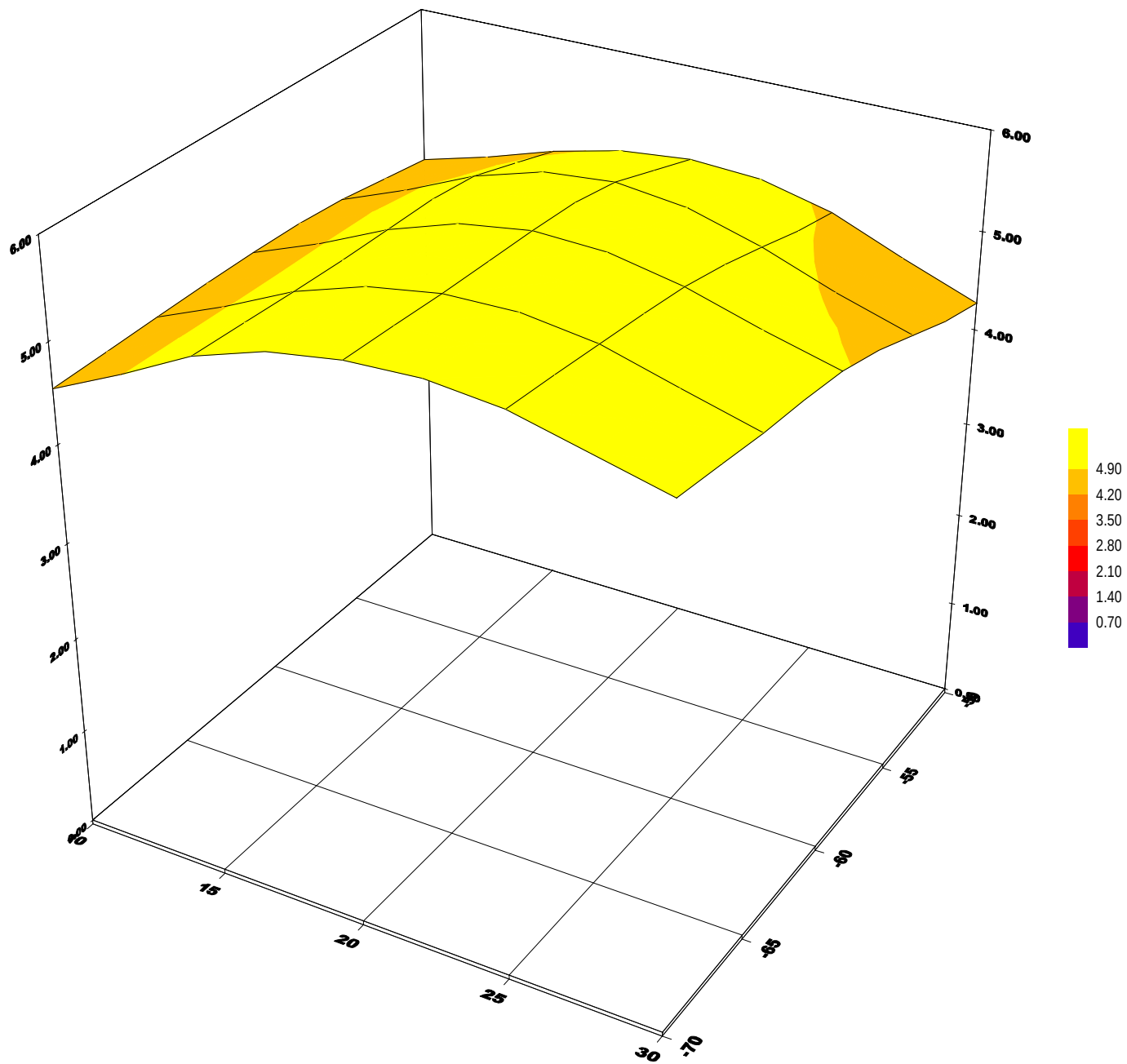
X = 25 Y = -70

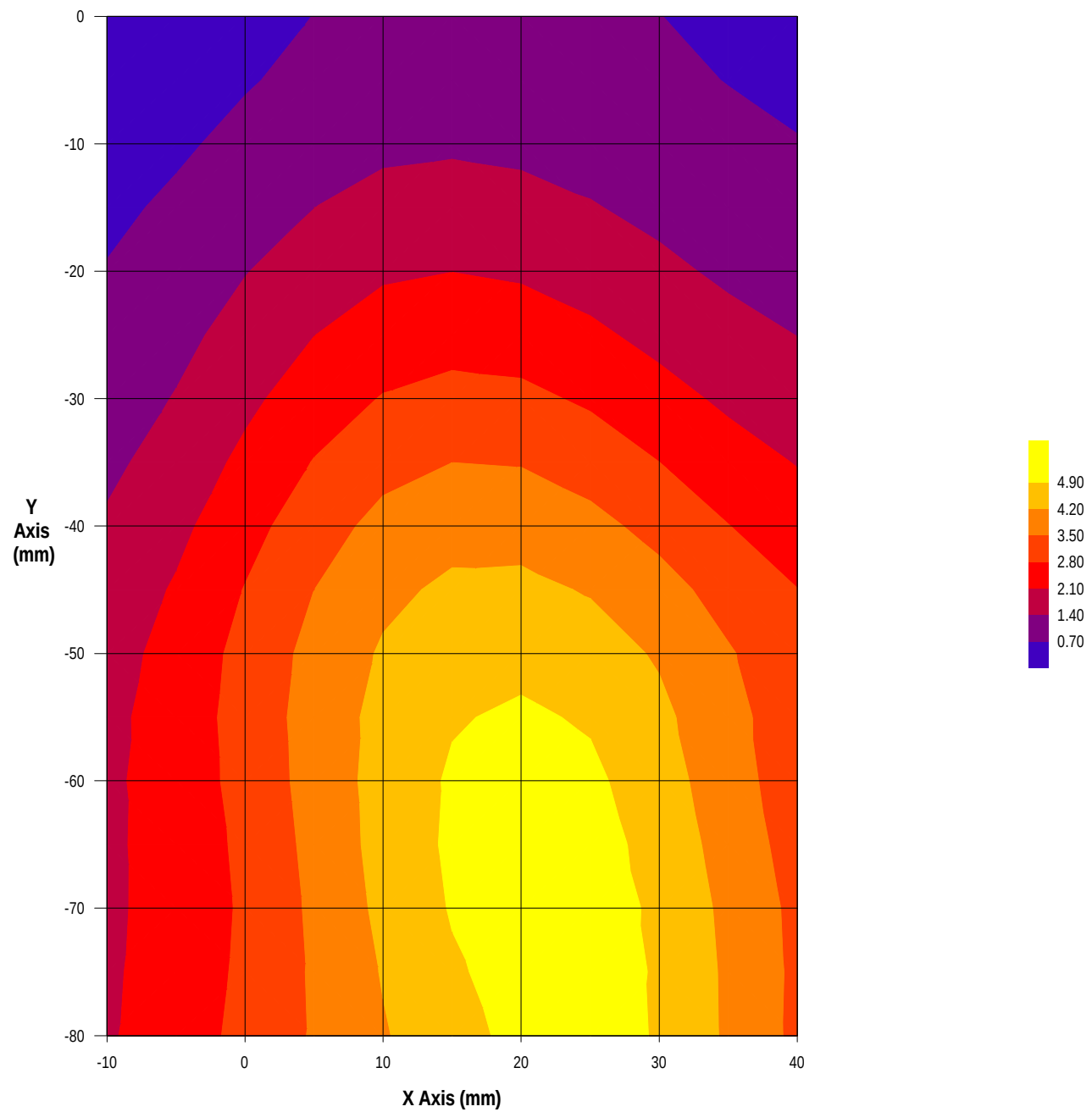
Measured Values (mV) :

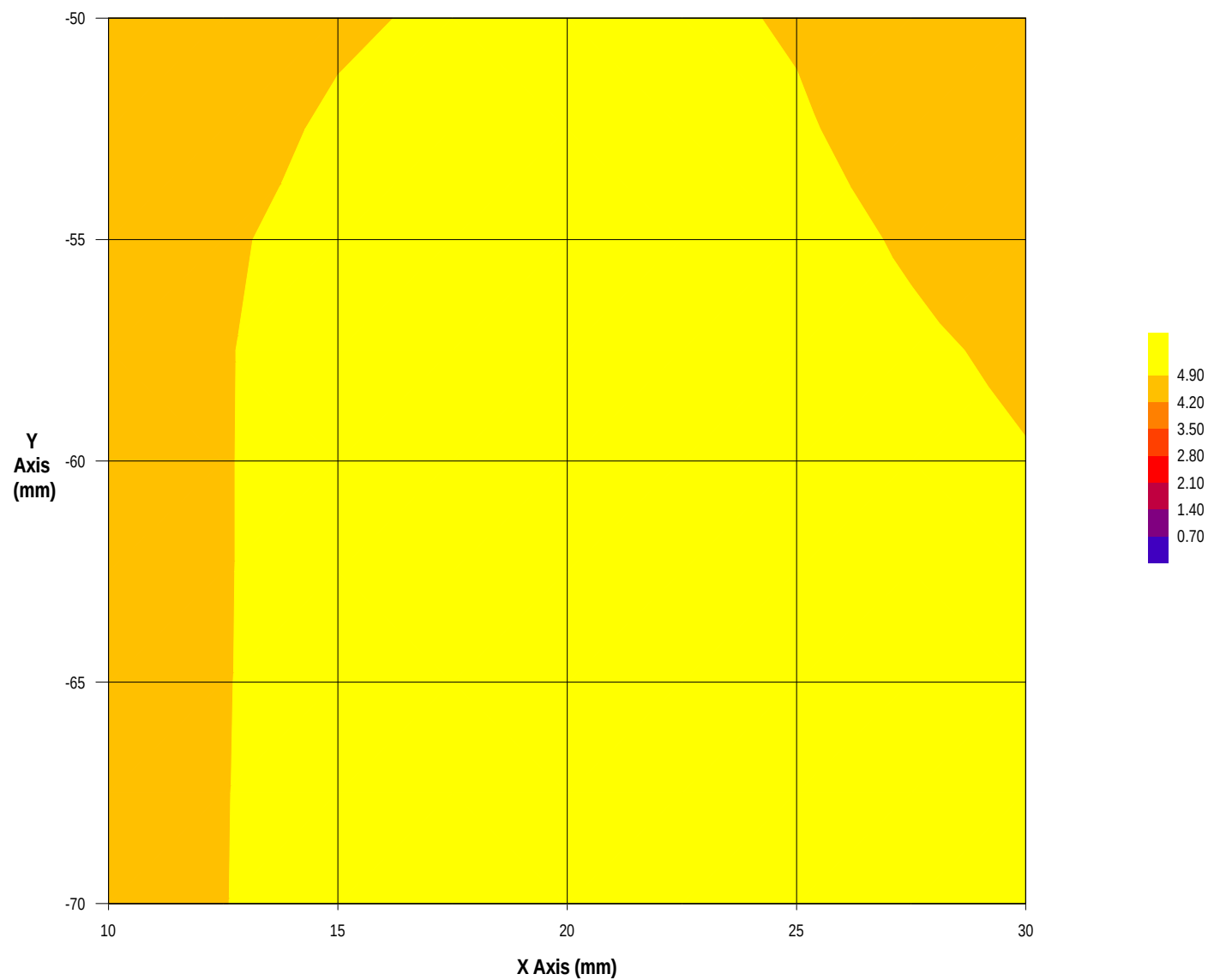
5.86	3.49	2.39	1.49	0.88	0.50
0.15	0.02	0.00	0.00	0.00	

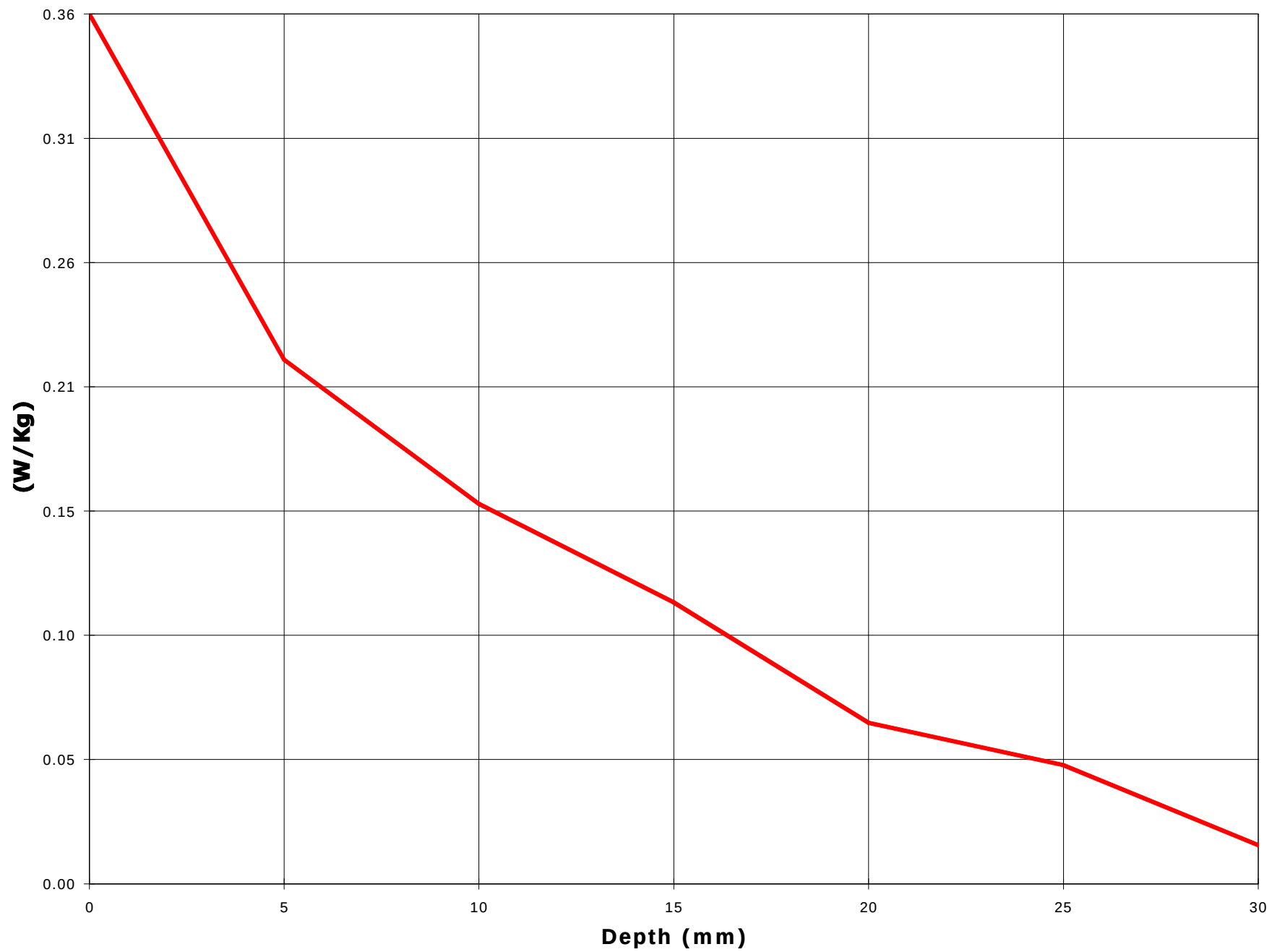
Peak Voltage (mV) : 7.69 1 Cm Voltage (mV) : 3.23 SAR (W/Kg) : 0.36











Test Information

Date : 11/10/99
Time : 2:58:39 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF0R6A

Test : SAR
Frequency (MHz) : 849
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : TDMA

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 49.1
Conductivity : 1.15

Probe : E
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 0.72
Calibrated Date : 3/24/99

Antenna Position : FIX
Measured Power (W) : 0.135
(conducted)
Cable Insertion Loss (dB) : 0.6
Compensated Power (W) : 0.155

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0039 Channel 3 : 0.0031

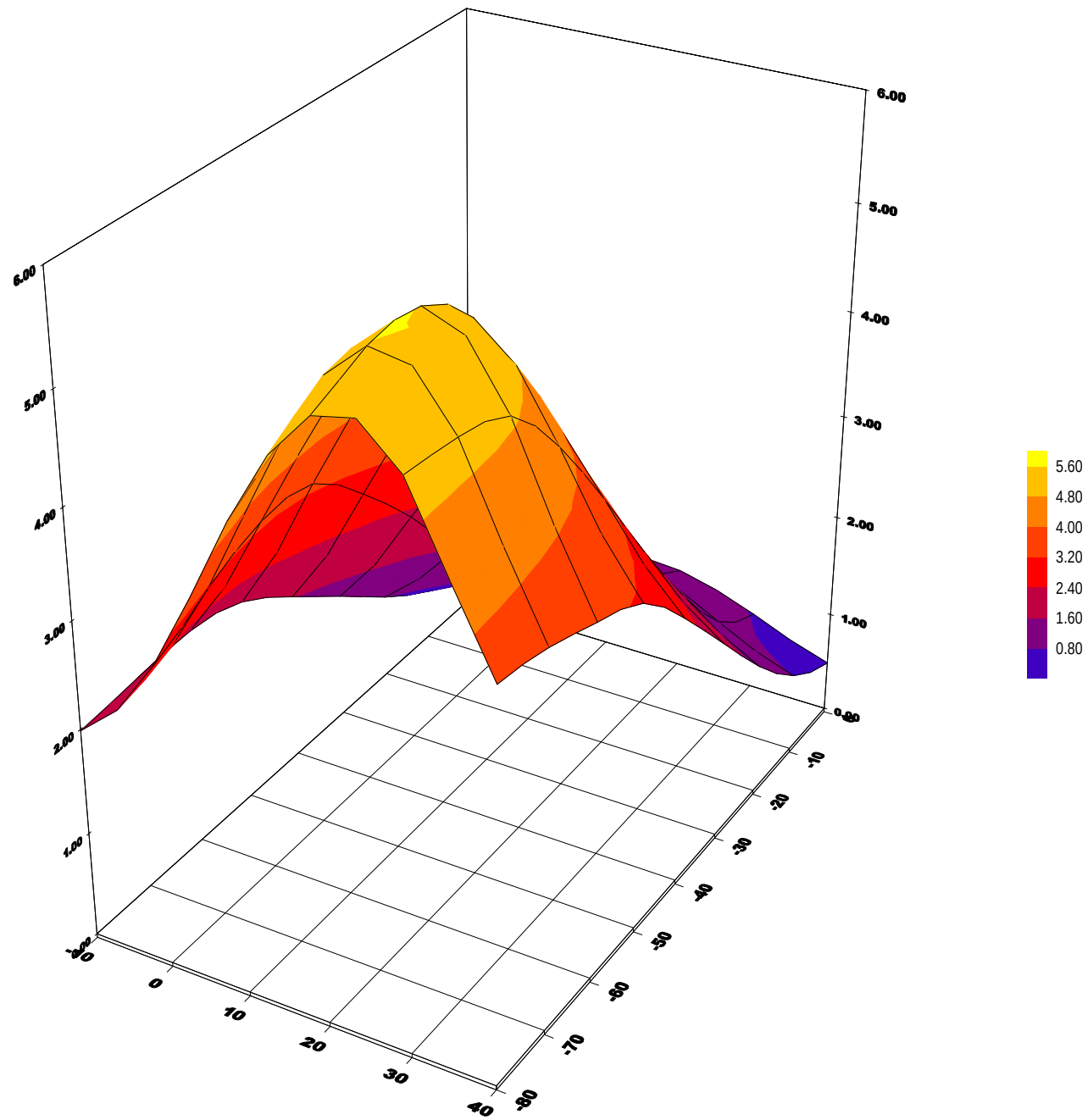
Location of Maximum Field :

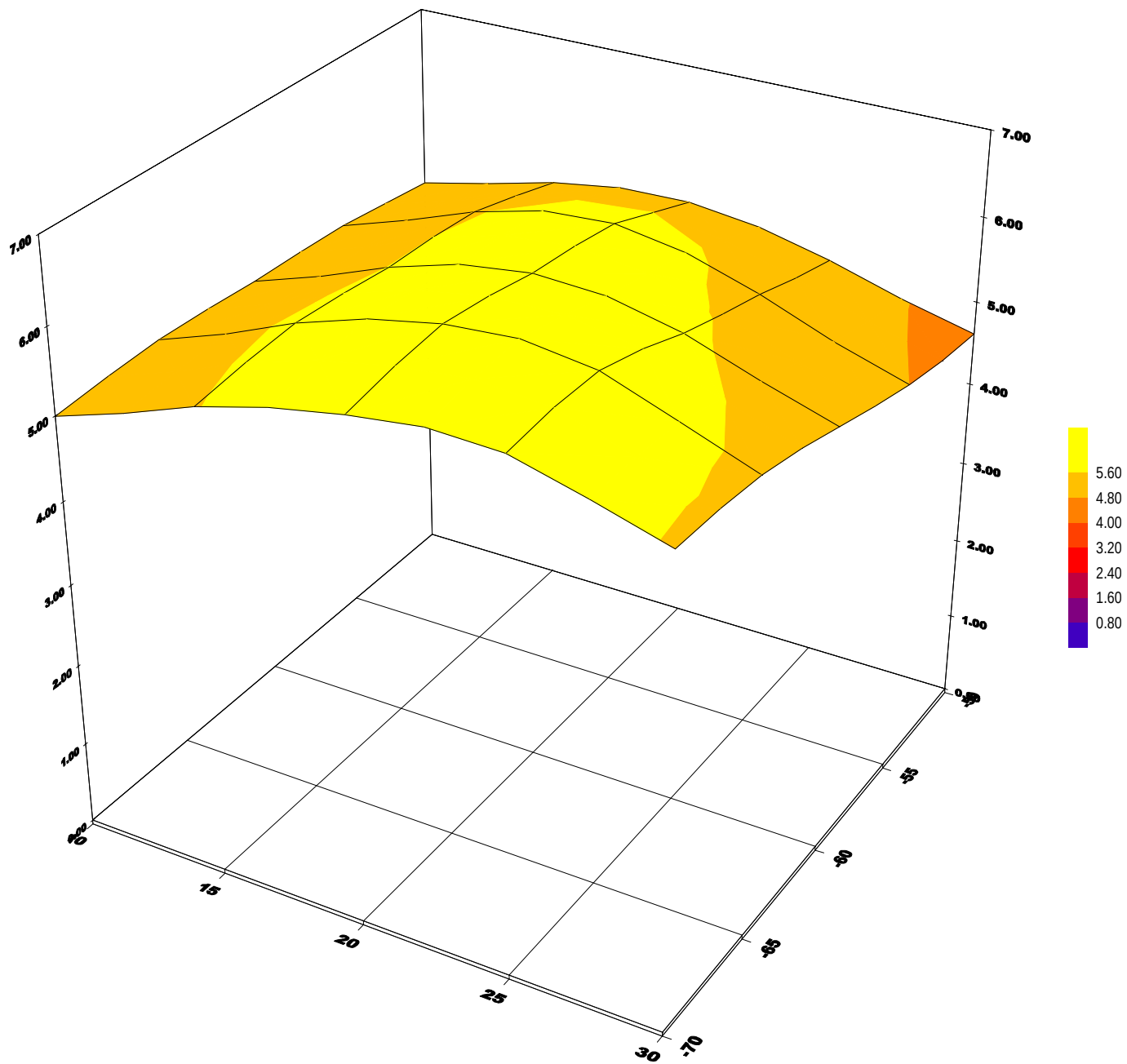
X = 25 Y = -65

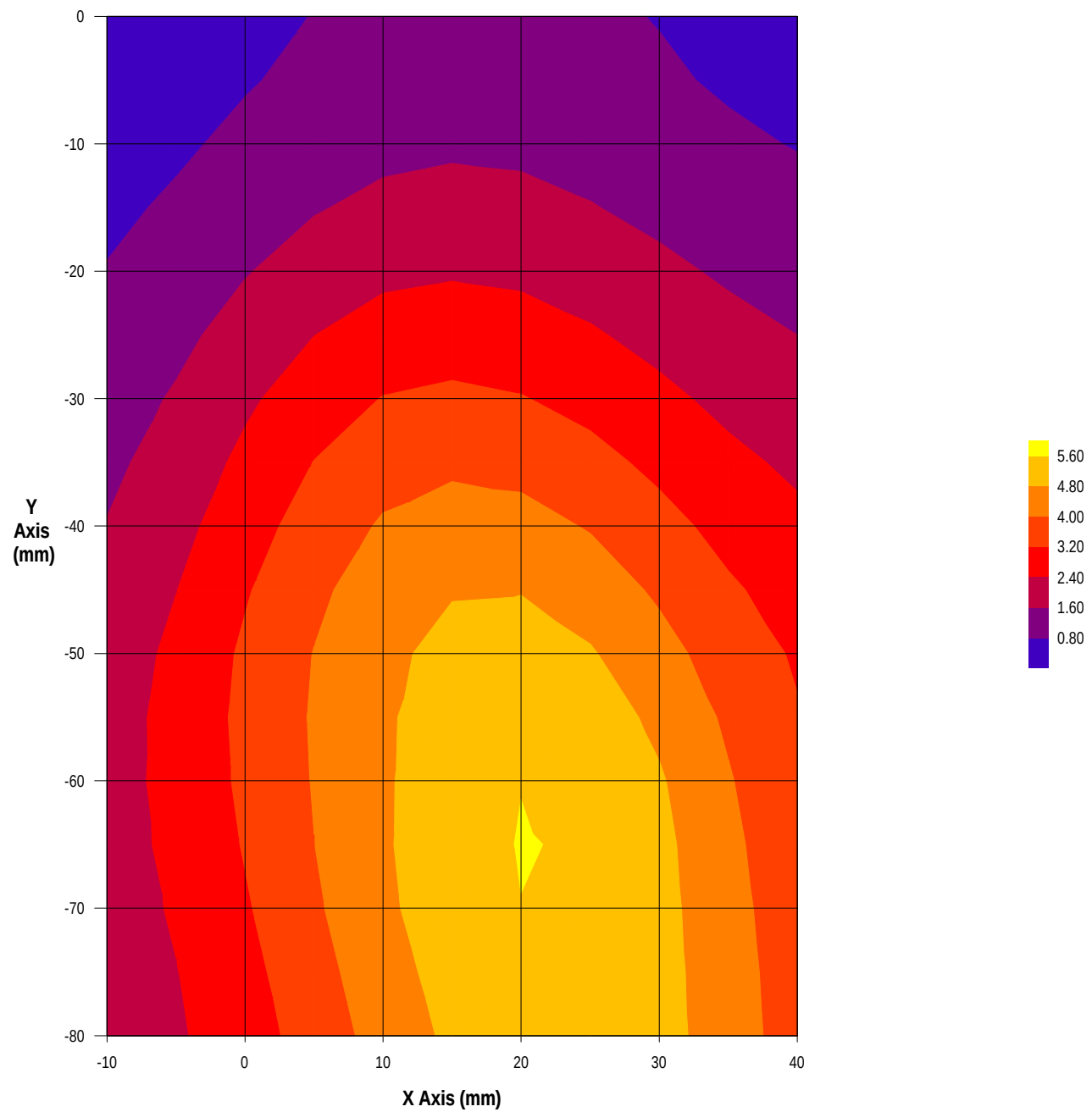
Measured Values (mV) :

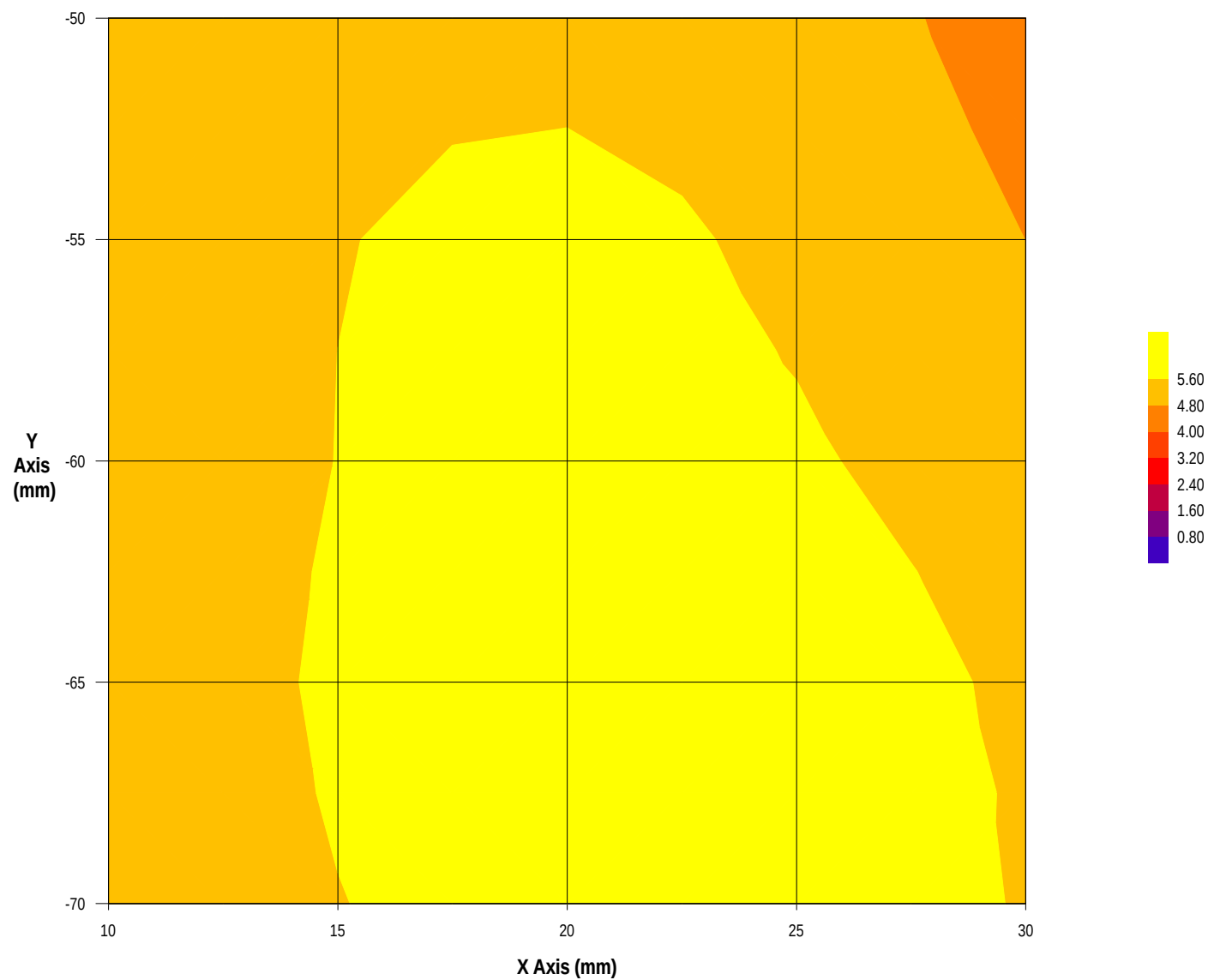
6.10	3.89	2.53	1.59	1.03	0.53
0.22	0.03	0.00	0.00	0.00	

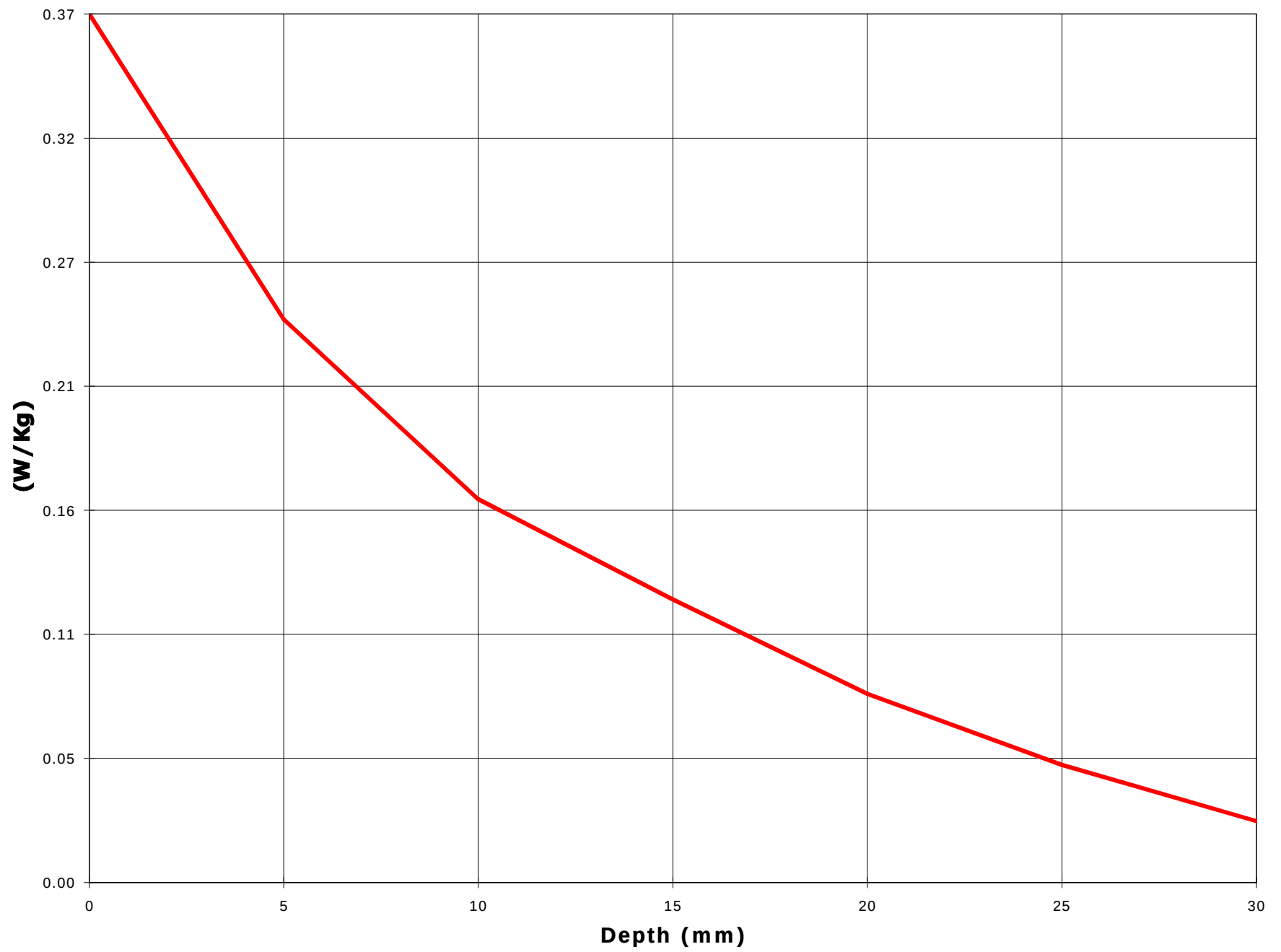
Peak Voltage (mV) : 7.95 1 Cm Voltage (mV) : 3.31 SAR (W/Kg) : 0.37











Test Information

Date : 11/11/99
Time : 2:34:44 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF06A

Test : SAR
Frequency (MHz) : 1850
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : TDMA

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 46.8
Conductivity : 1.46

Probe : E3
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 1.36
Calibrated Date : 4/23/99

Antenna Position : FIX
Measured Power (W) : 0.118
(conducted)
Cable Insertion Loss (dB) : 1.2
Compensated Power (W) : 0.156

Amplifier Setting :

Channel 1 : 0.0046 Channel 2 : 0.0042 Channel 3 : 0.0032

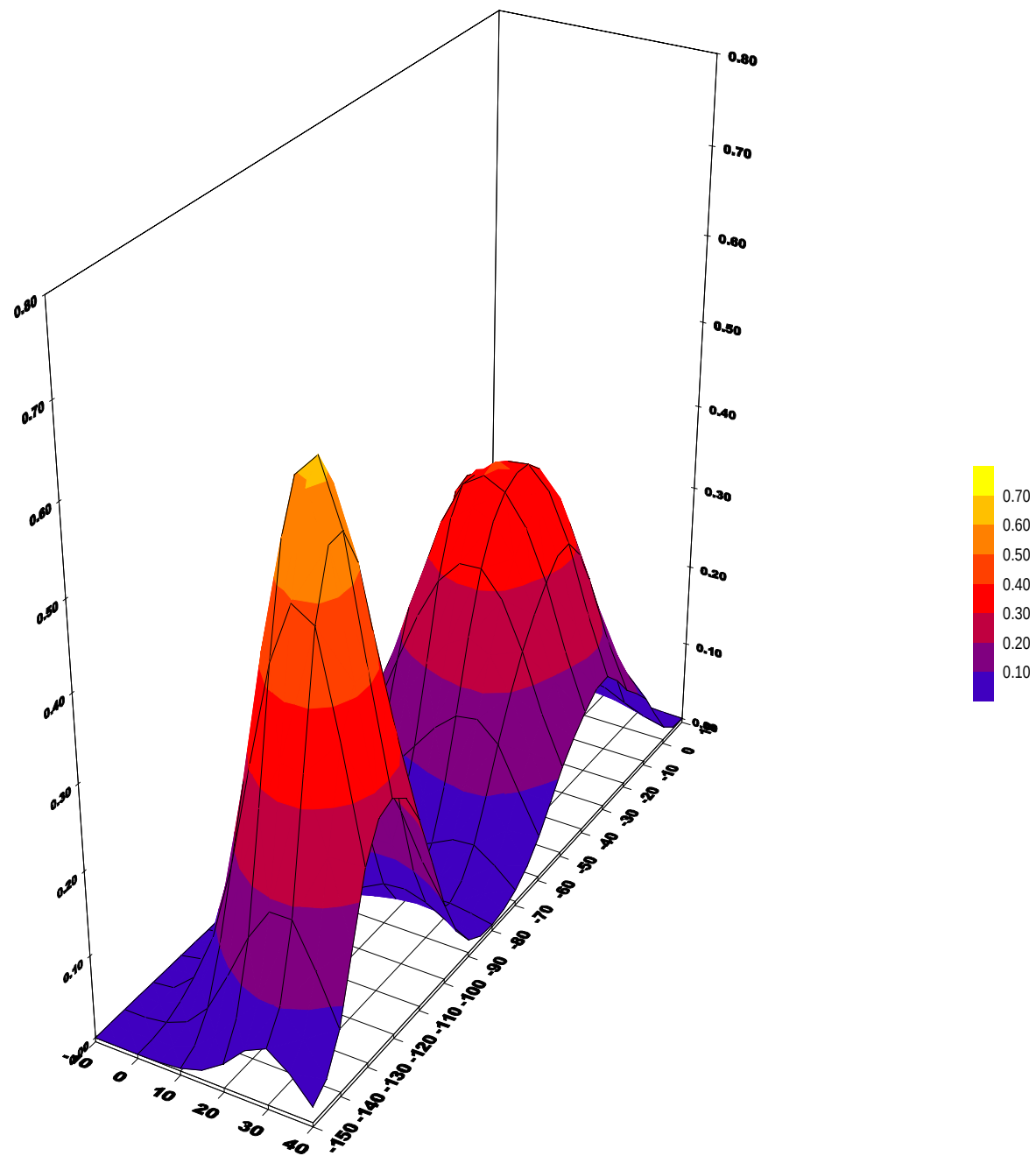
Location of Maximum Field :

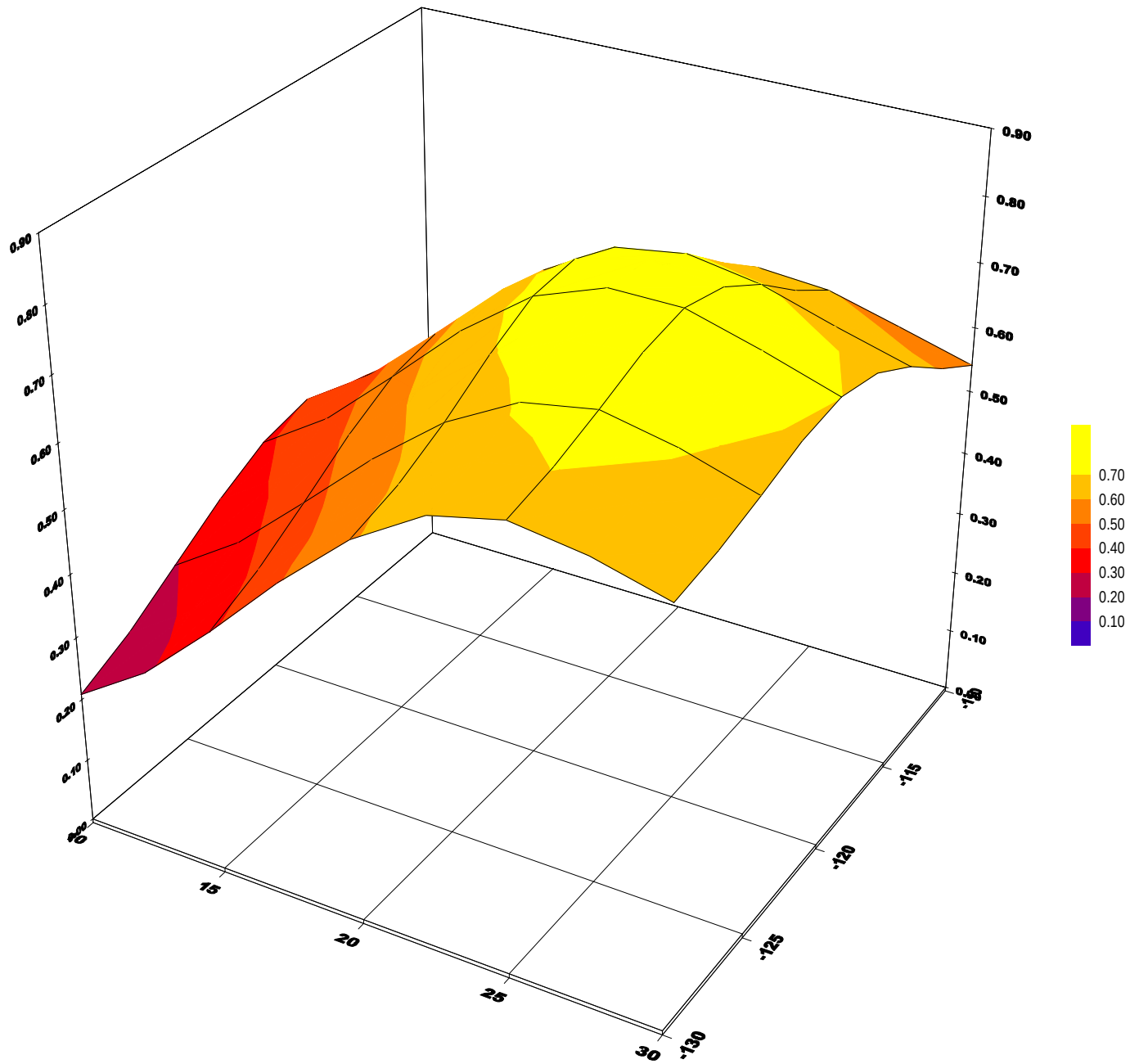
X = 25 Y = -120

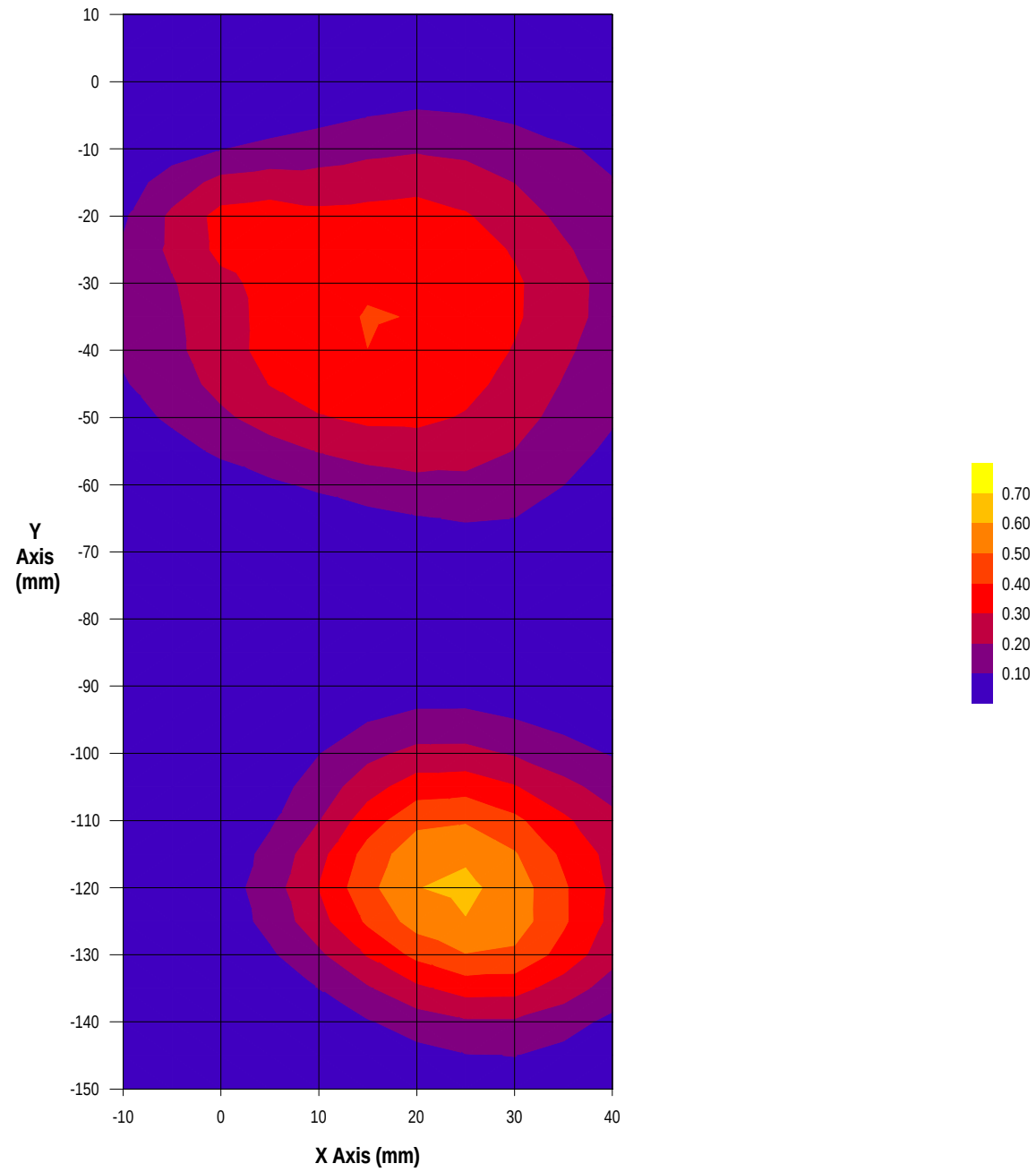
Measured Values (mV) :

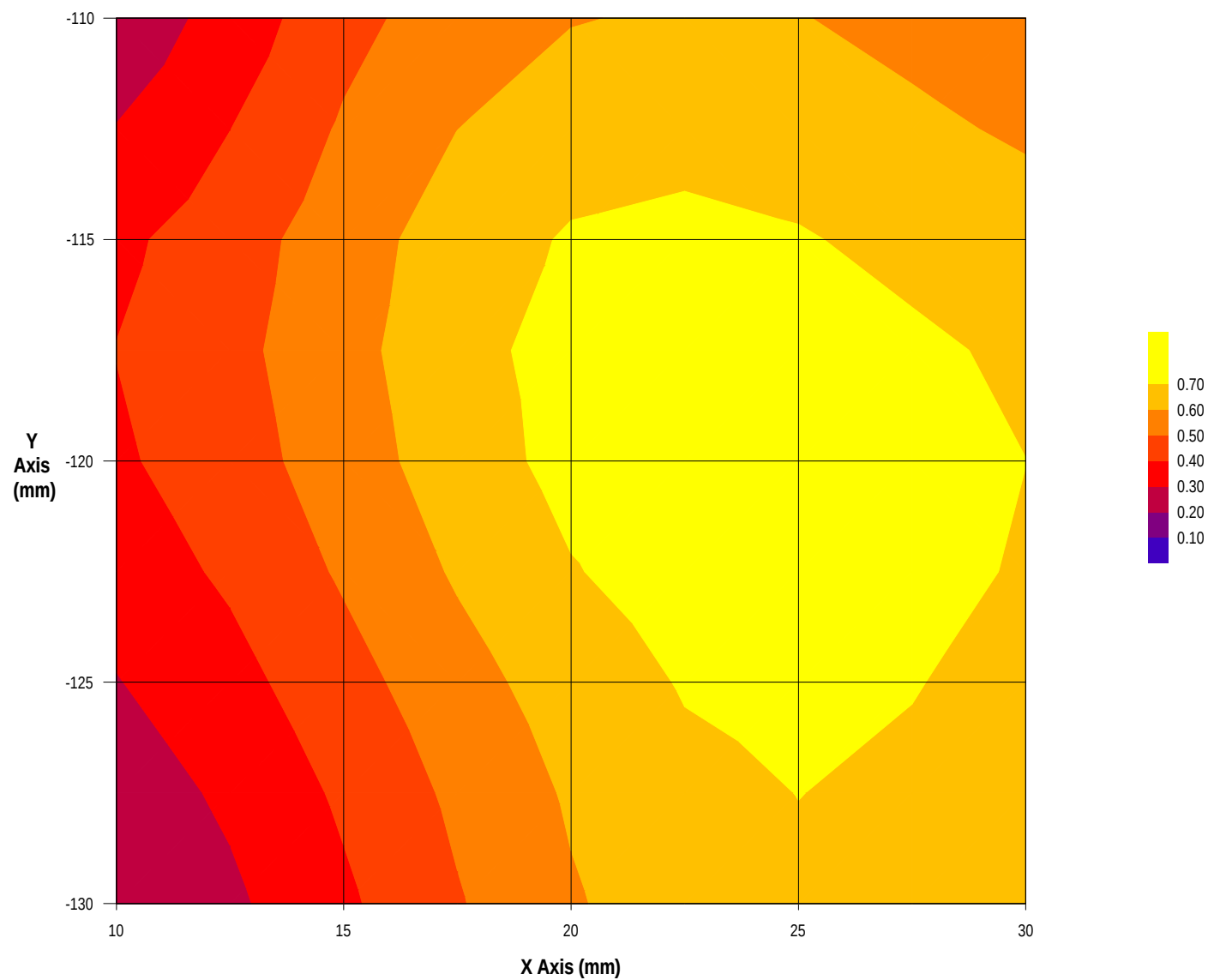
0.83	0.32	0.12	0.02	0.01	0.01
0.00	0.00	0.00	0.00	0.00	

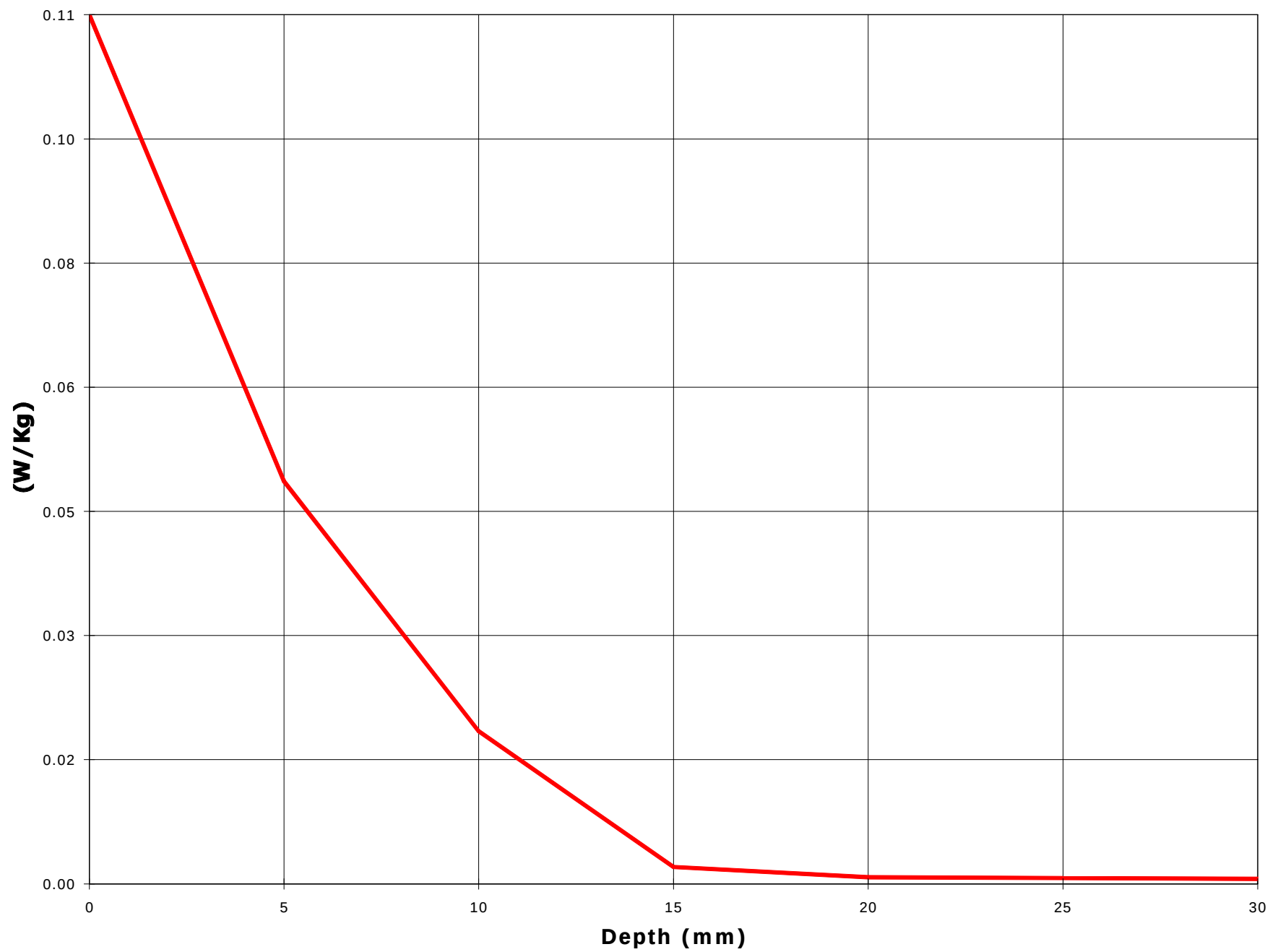
Peak Voltage (mV) : 1.47 1 Cm Voltage (mV) : 0.30 SAR (W/Kg) : 0.11











Test Information

Date : 11/11/99
Time : 3:07:02 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF06A

Test : SAR
Frequency (MHz) : 1880
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : TDMA

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 46.8
Conductivity : 1.46

Probe : E3
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 1.36
Calibrated Date : 4/23/99

Antenna Position : FIX
Measured Power (W) : 0.169
(conducted)
Cable Insertion Loss (dB) : 1.2
Compensated Power (W) : 0.147

Amplifier Setting :

Channel 1 : 0.0046 Channel 2 : 0.0042 Channel 3 : 0.0032

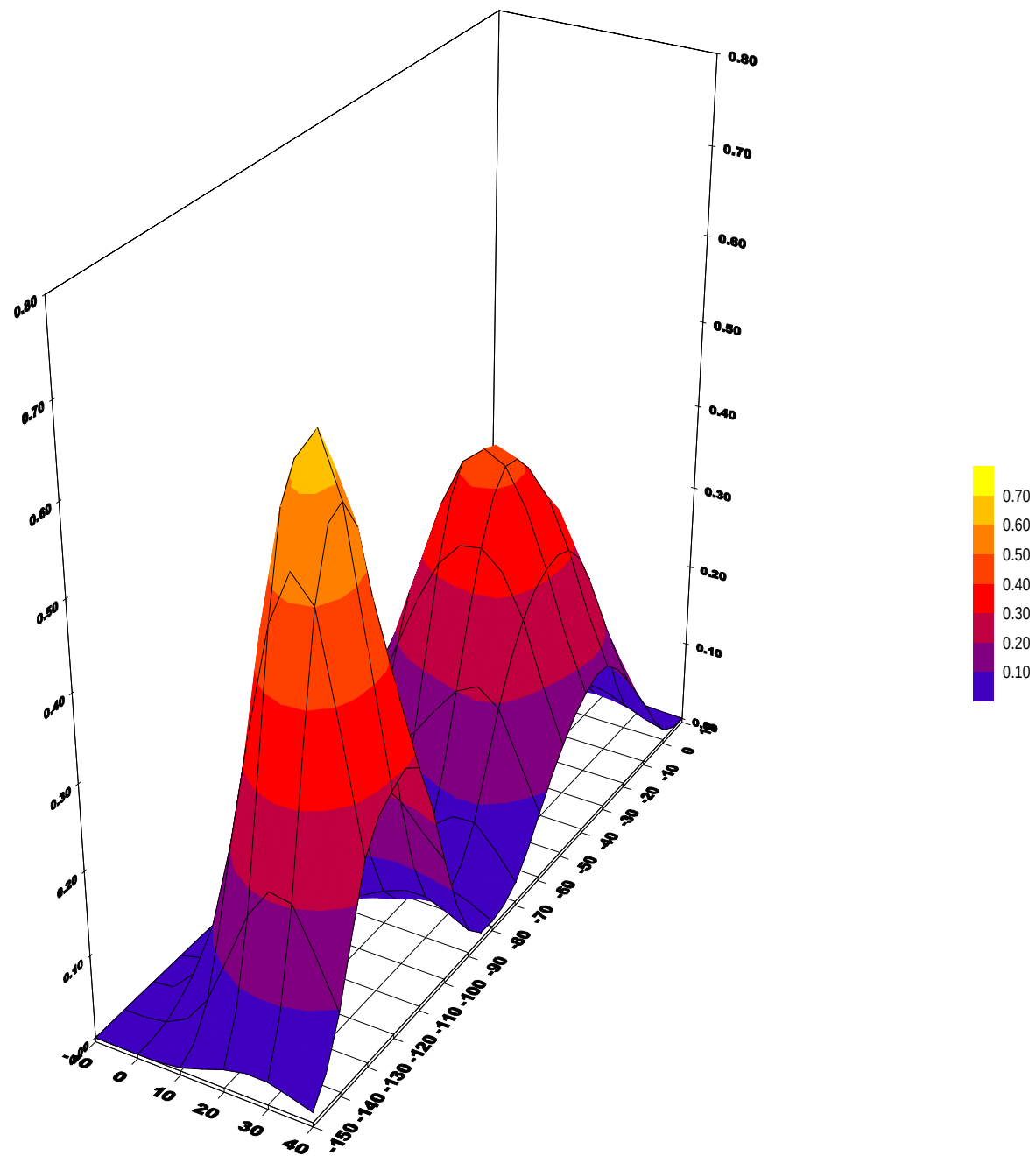
Location of Maximum Field :

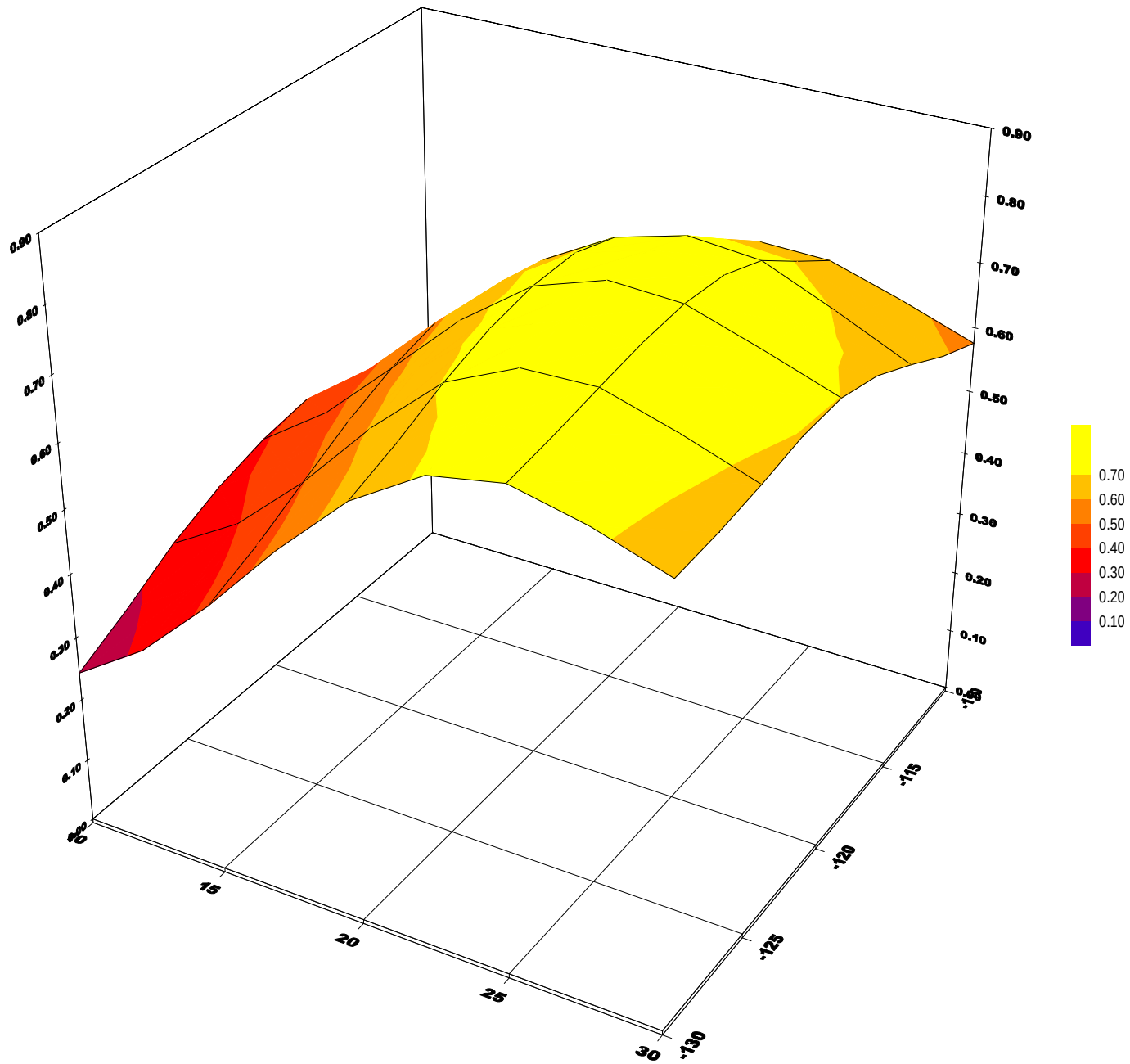
X = 25 Y = -120

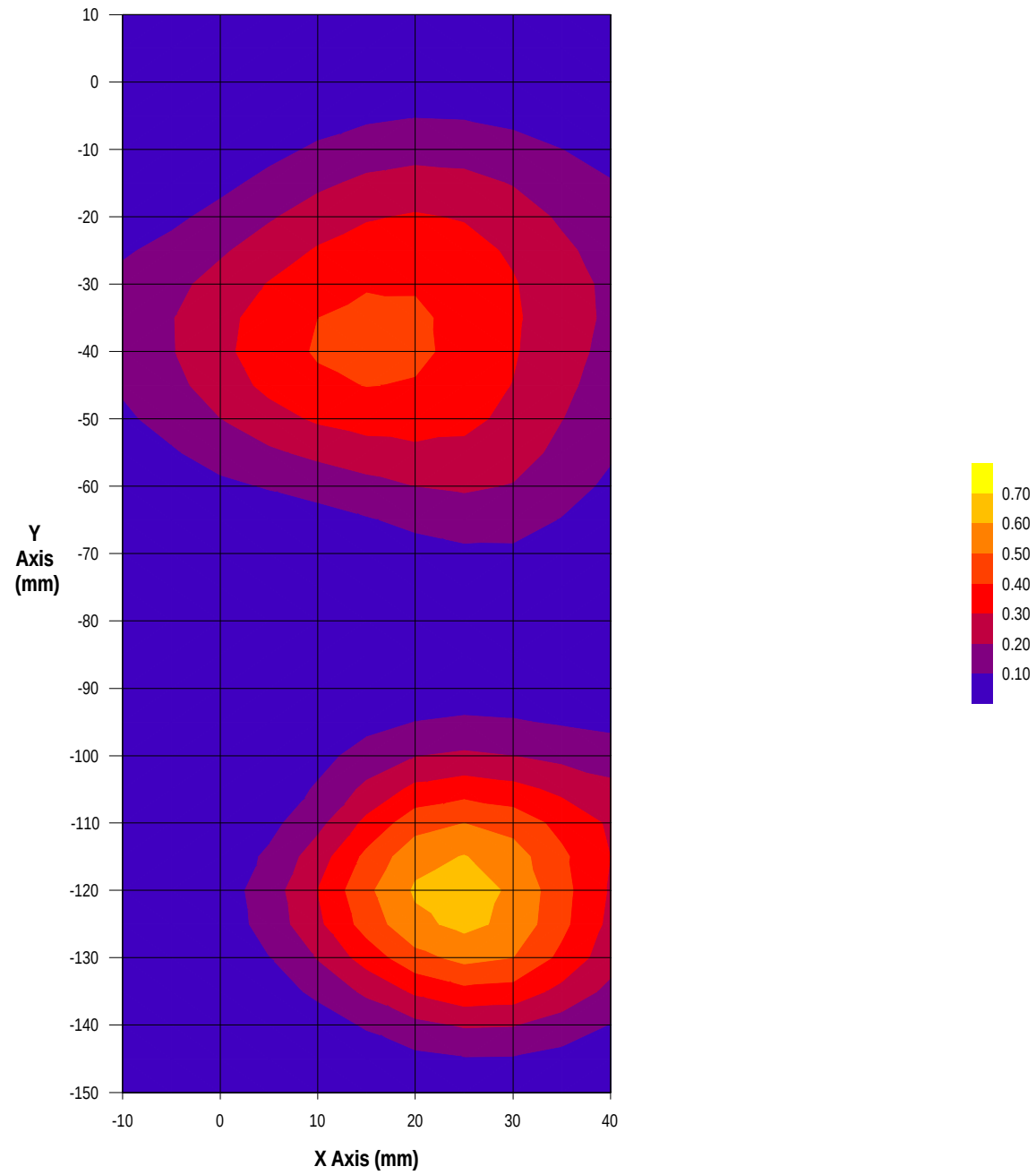
Measured Values (mV) :

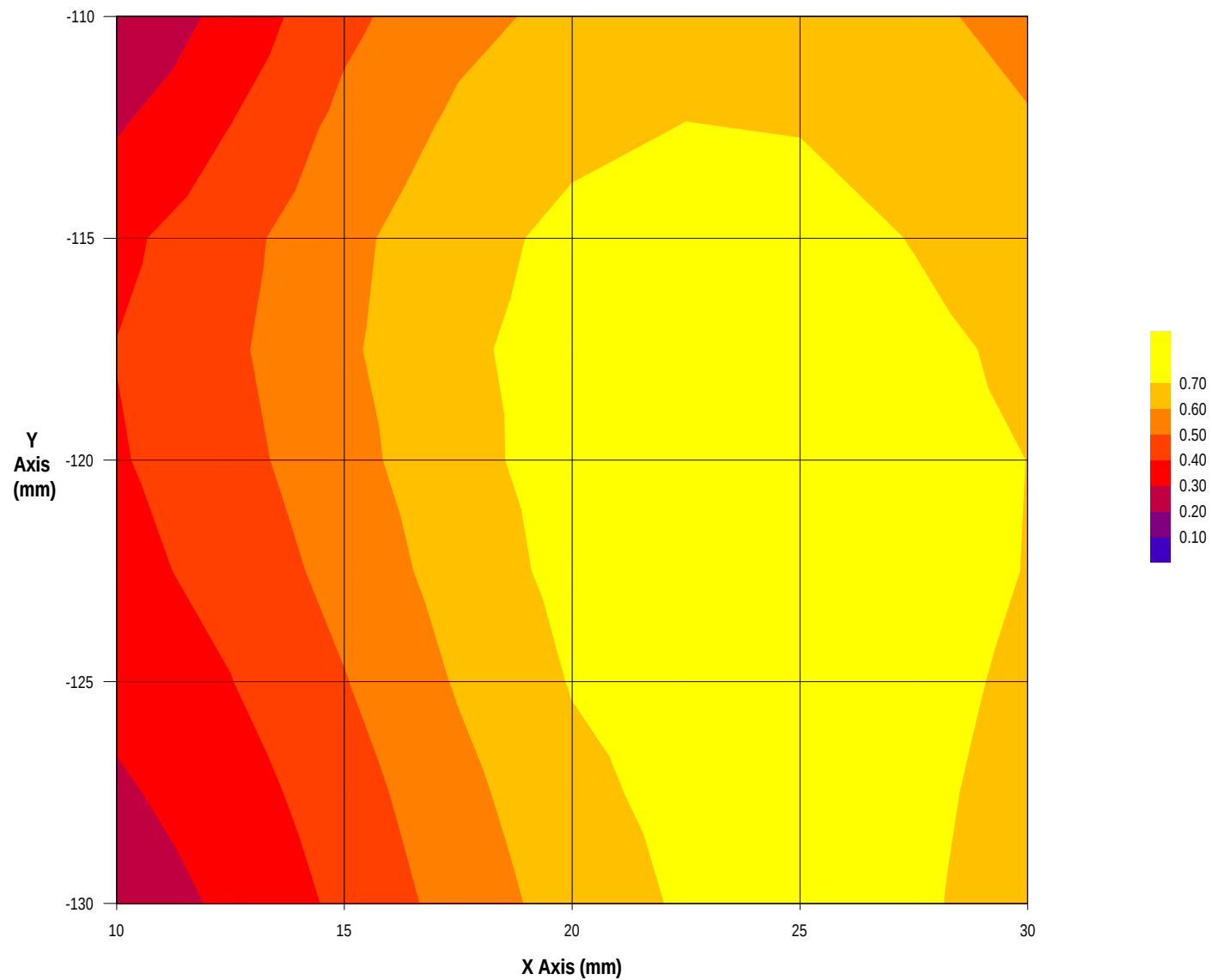
0.80	0.29	0.09	0.01	0.01	0.01
0.00	0.00	0.00	0.00	0.00	

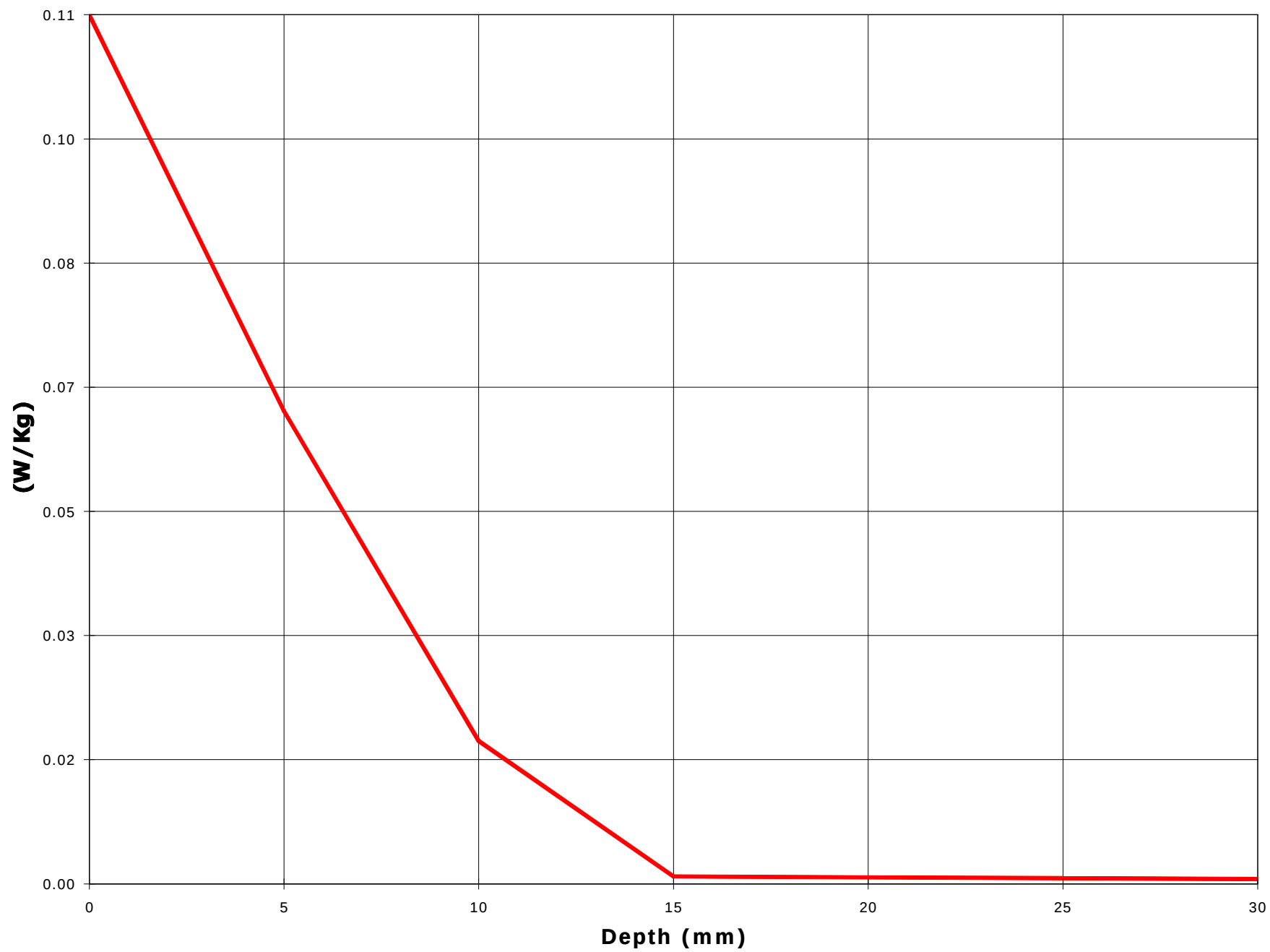
Peak Voltage (mV) : 1.53 1 Cm Voltage (mV) : 0.29 SAR (W/Kg) : 0.11











Test Information

Date : 11/11/99
Time : 3:26:55 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF06A

Test : SAR
Frequency (MHz) : 1910
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : TDMA

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 46.8
Conductivity : 1.46

Probe : E3
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 1.36
Calibrated Date : 4/23/99

Antenna Position : FIX
Measured Power (W) : 0.124
(conducted)
Cable Insertion Loss (dB) : 1.2
Compensated Power (W) : 0.163

Amplifier Setting :

Channel 1 : 0.0046 Channel 2 : 0.0042 Channel 3 : 0.0032

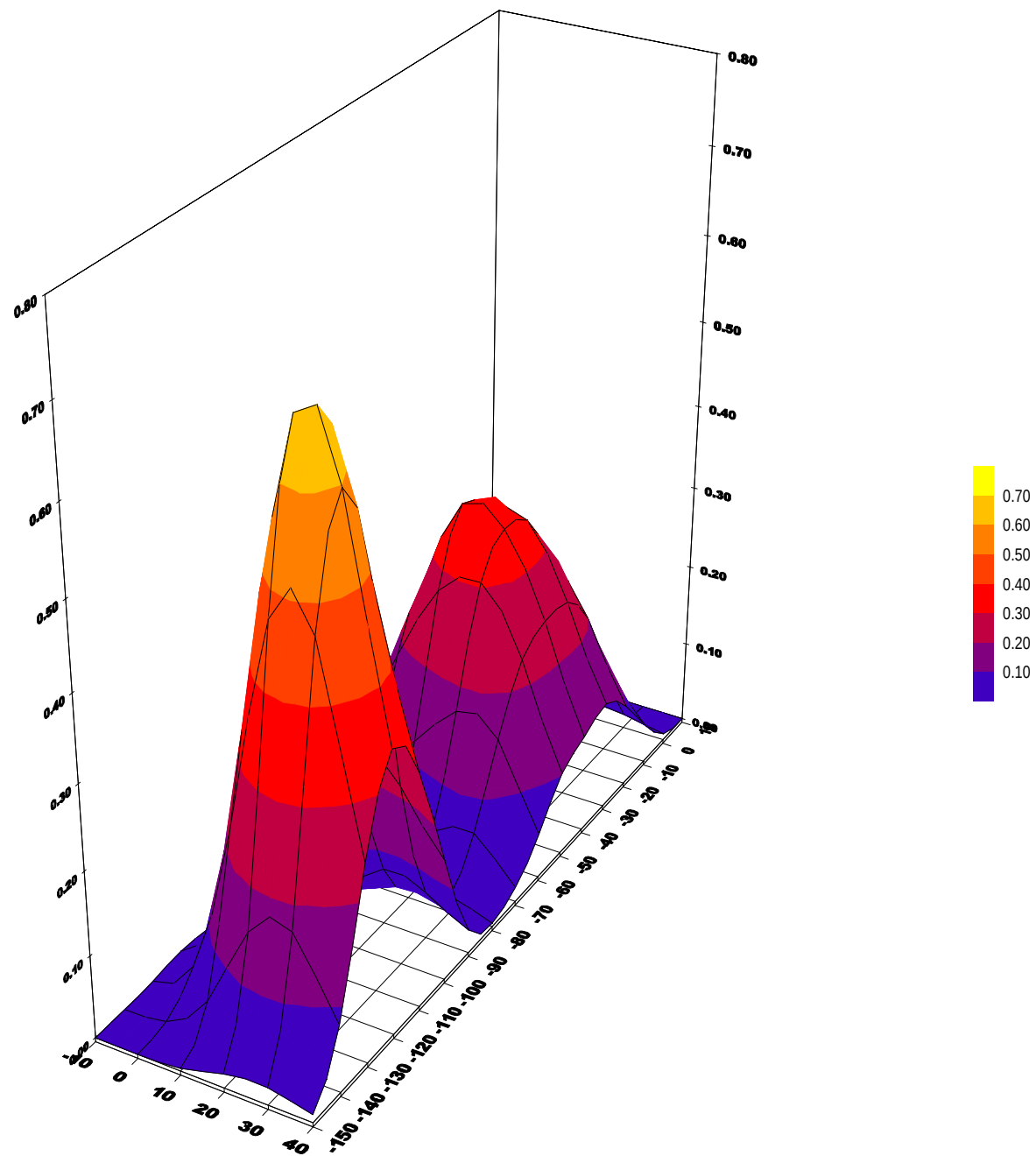
Location of Maximum Field :

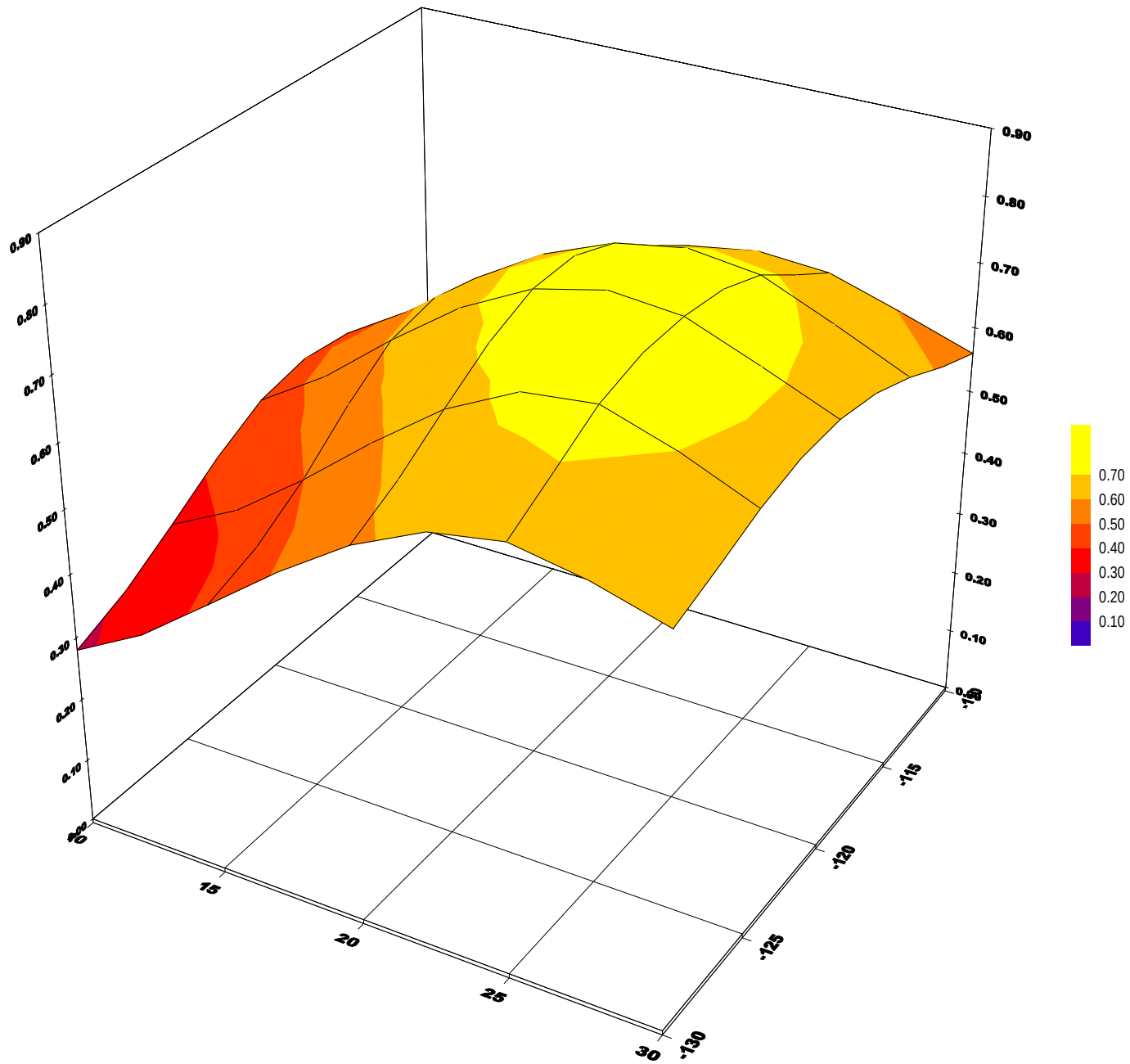
X = 25 Y = -125

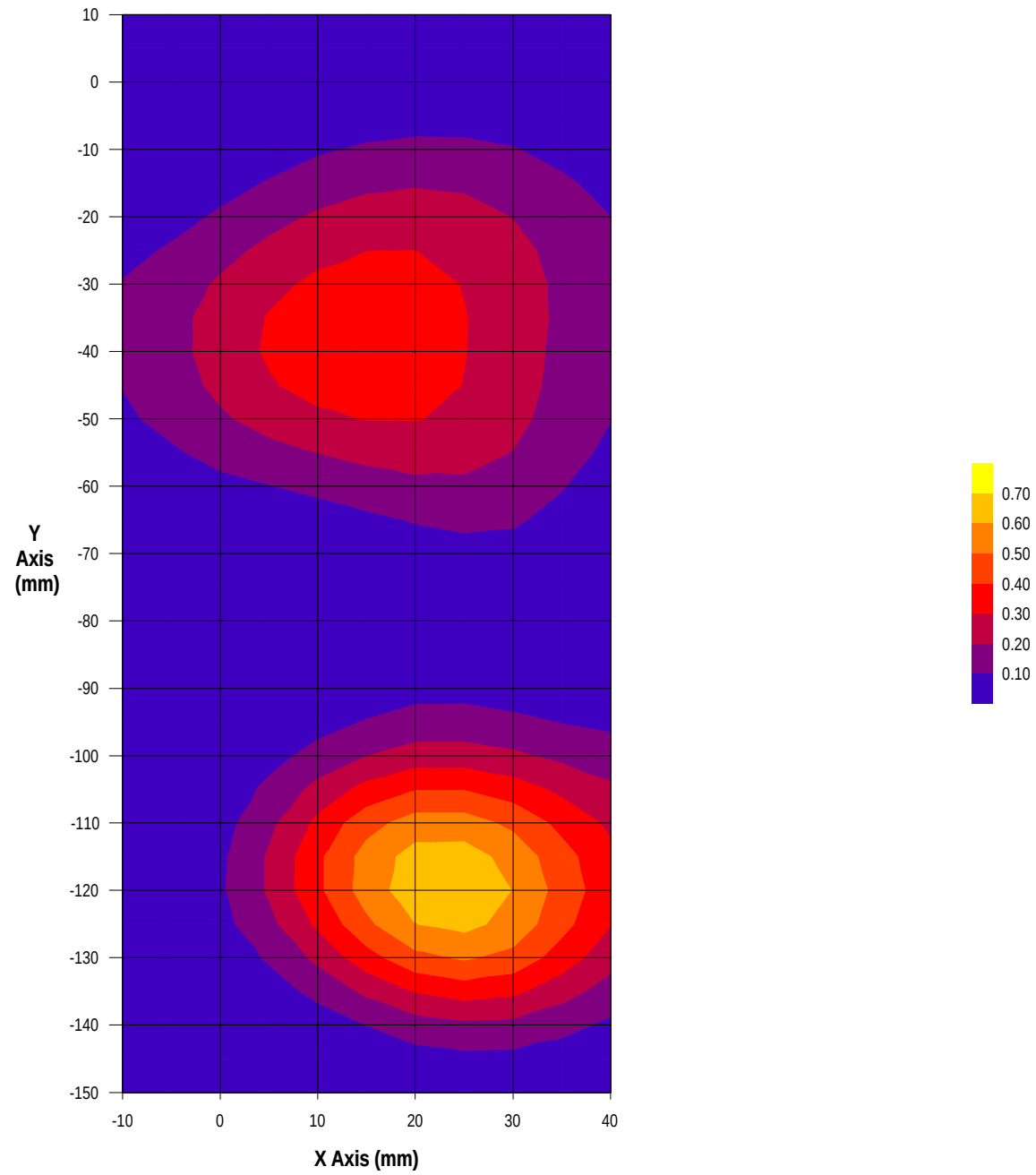
Measured Values (mV) :

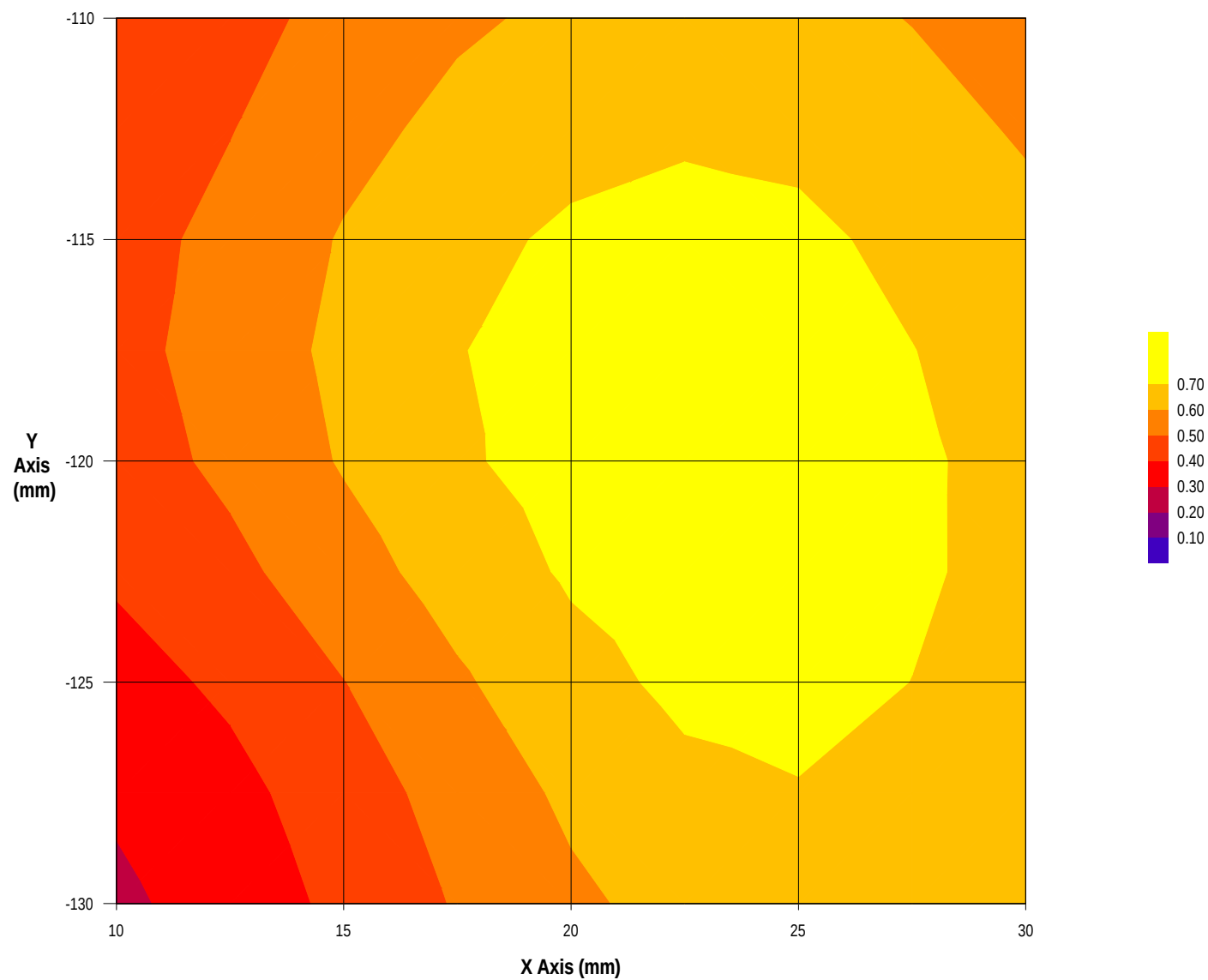
0.68	0.32	0.12	0.01	0.00	0.00
0.00	0.00	0.00	0.00	0.00	

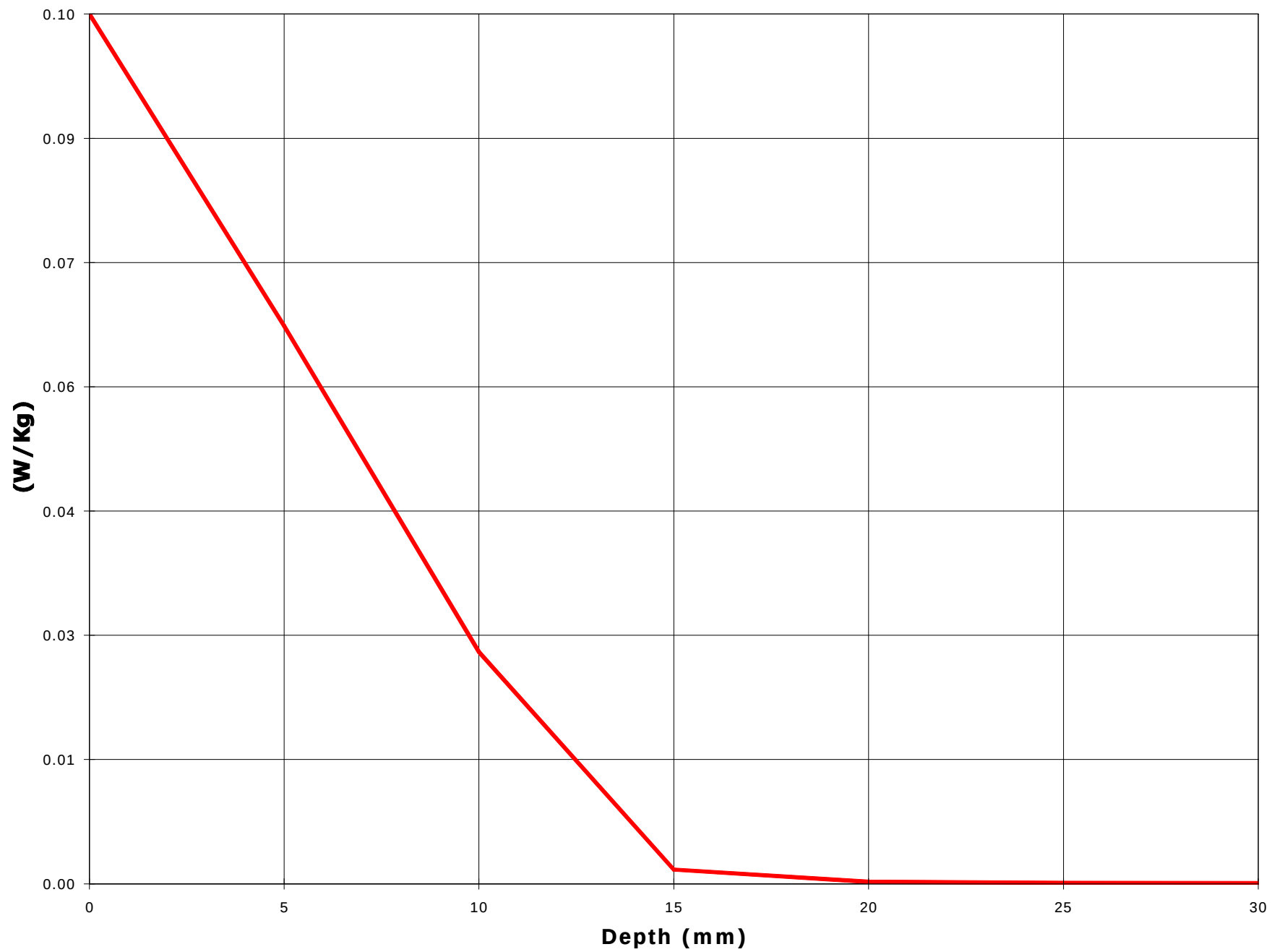
Peak Voltage (mV) : 1.16 1 Cm Voltage (mV) : 0.42 SAR (W/Kg) : 0.10











Test Information

Date : 11/10/99
Time : 4:09:12 PM

Product : Cellular Phone
Manufacturer : Mitsubishi
Model Number : MT-254
Serial Number : 00001
FCC ID Number : BGBMT254XF06A

Test : SAR
Frequency (MHz) : 849
Nominal Output Power (W) : 0.6
Antenna Type : 1/4 Wave
Signal : CW

Phantom : Waist
Simulated Tissue : Muscle

Dielectric Constant : 49.1
Conductivity : 1.15

Probe : E
Probe Offset (mm) : 3.0
Sensor Factor (mV) : 10.8
Conversion Factor : 0.72
Calibrated Date : 3/24/99

Antenna Position : FIX
Measured Power (W) : 0.375
(conducted)
Cable Insertion Loss (dB) : 0.6
Compensated Power (W) : 0.431

Amplifier Setting :

Channel 1 : 0.0045 Channel 2 : 0.0039 Channel 3 : 0.0031

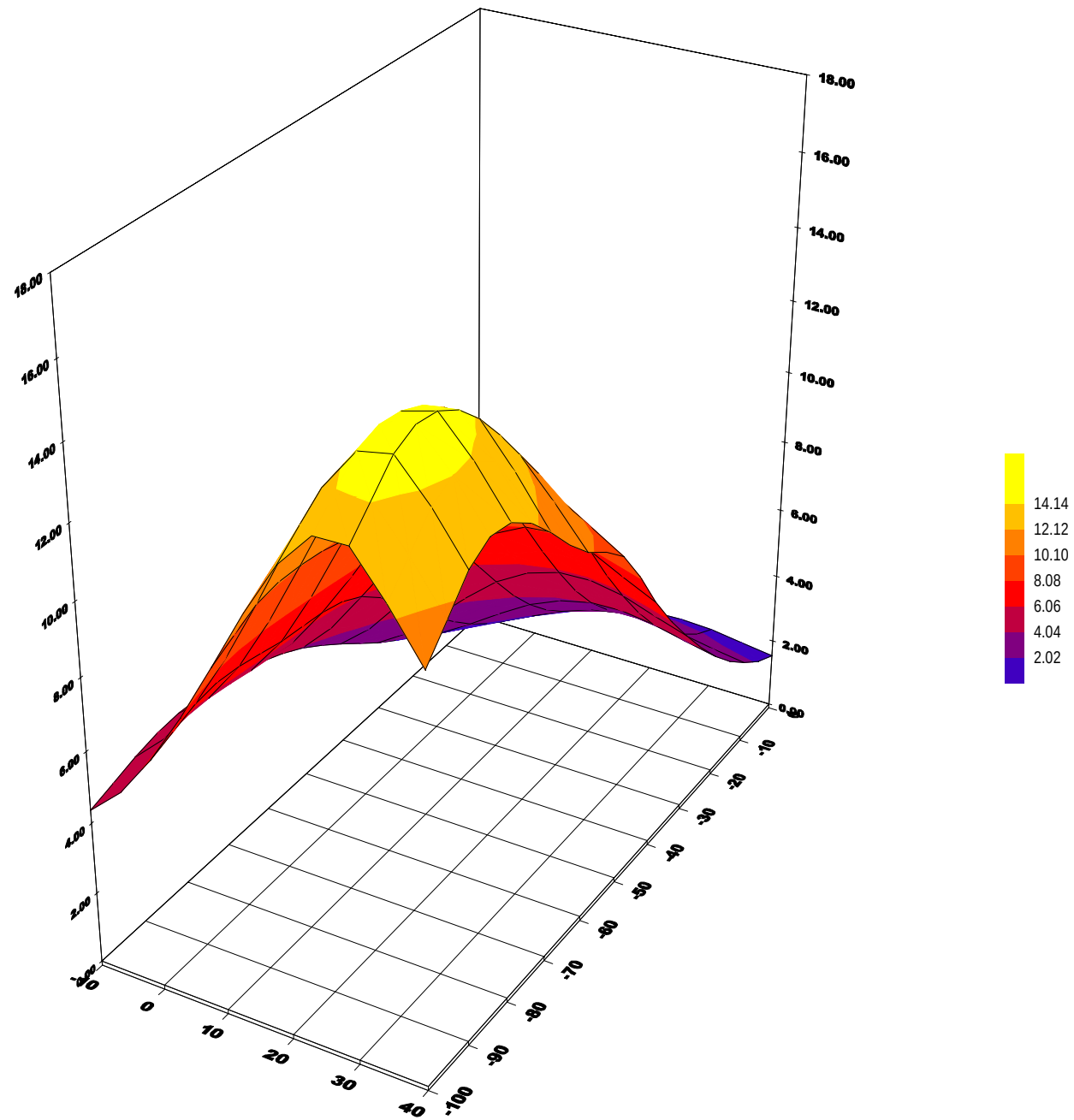
Location of Maximum Field :

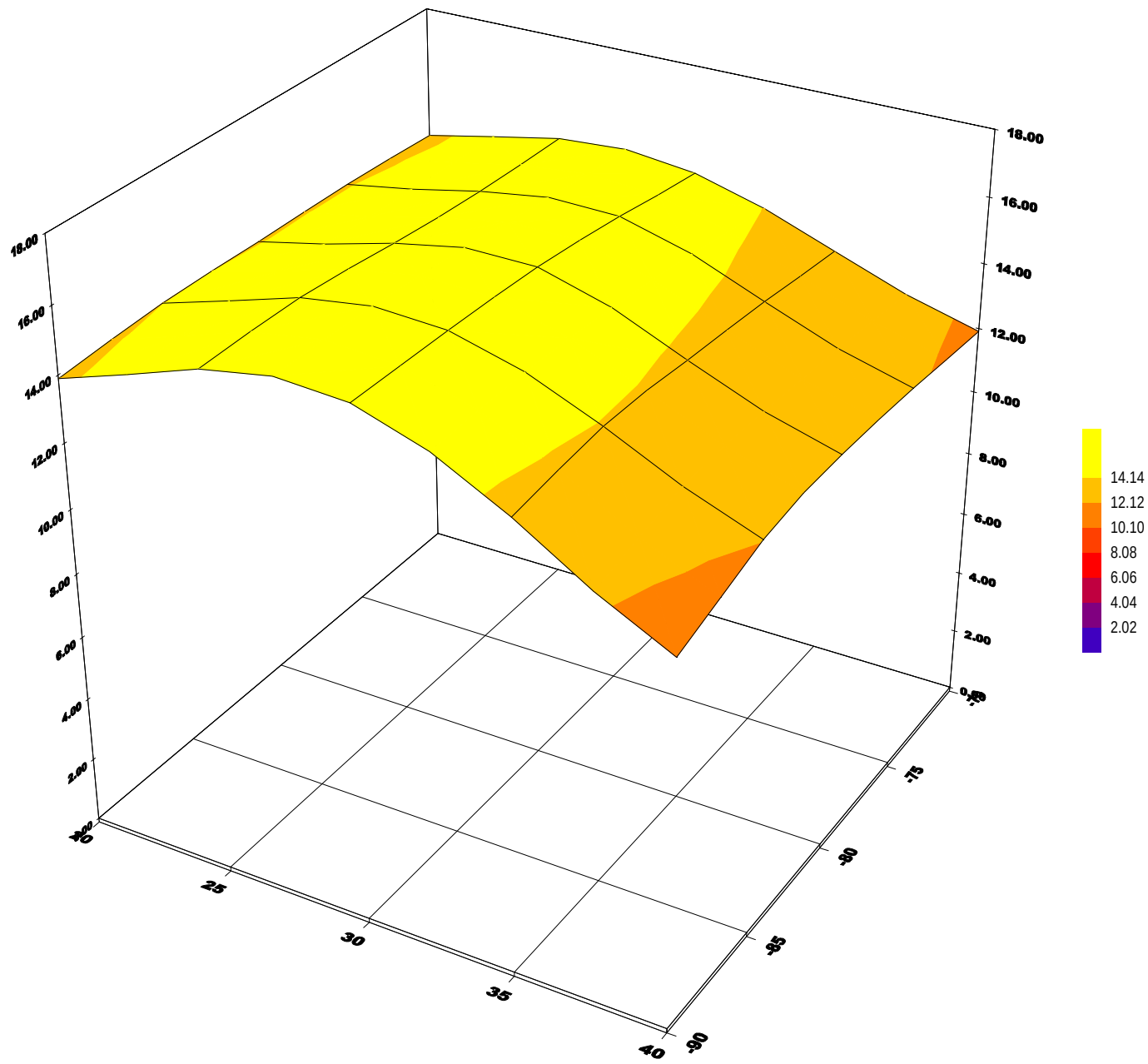
X = 30 Y = -80

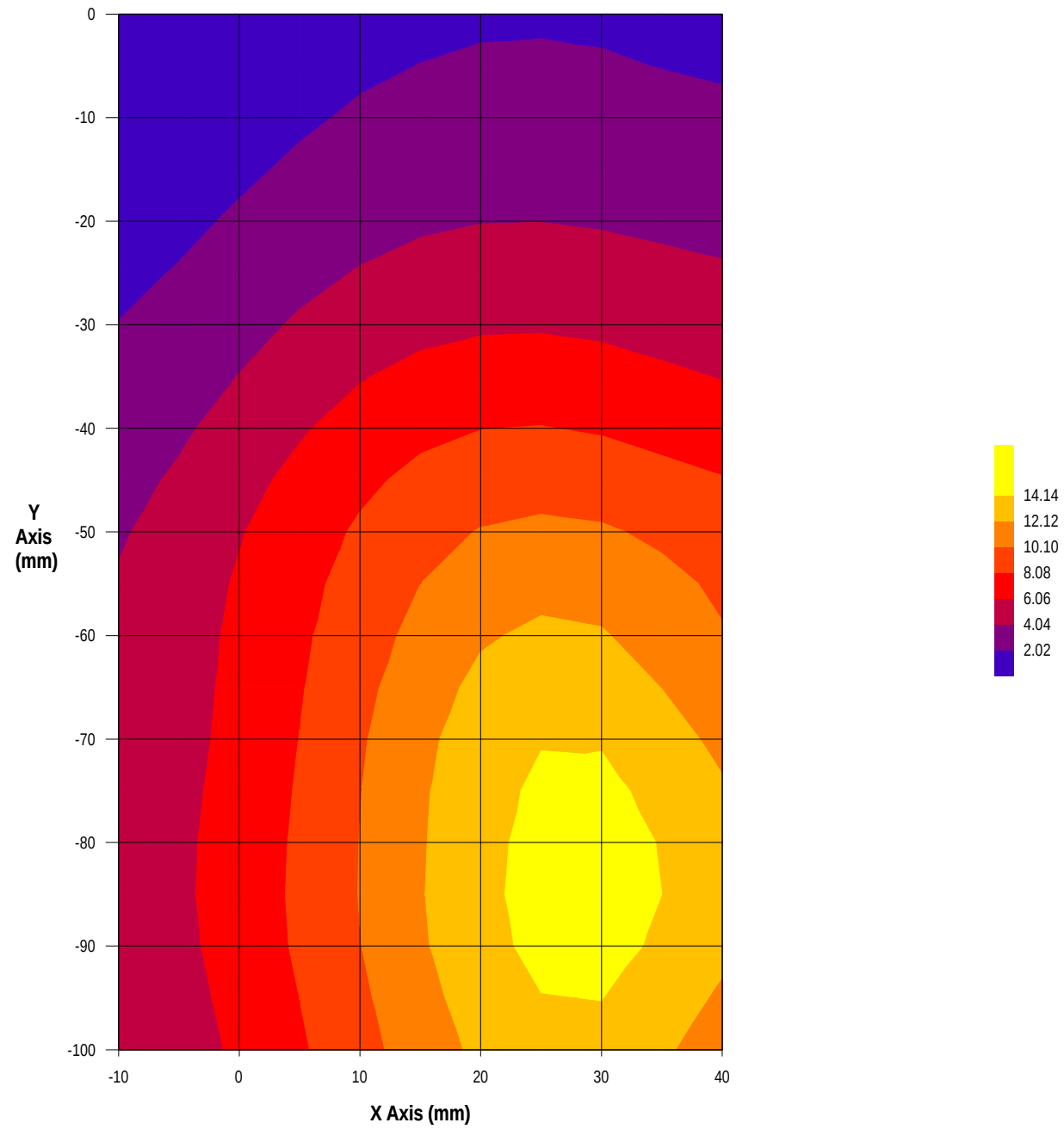
Measured Values (mV) :

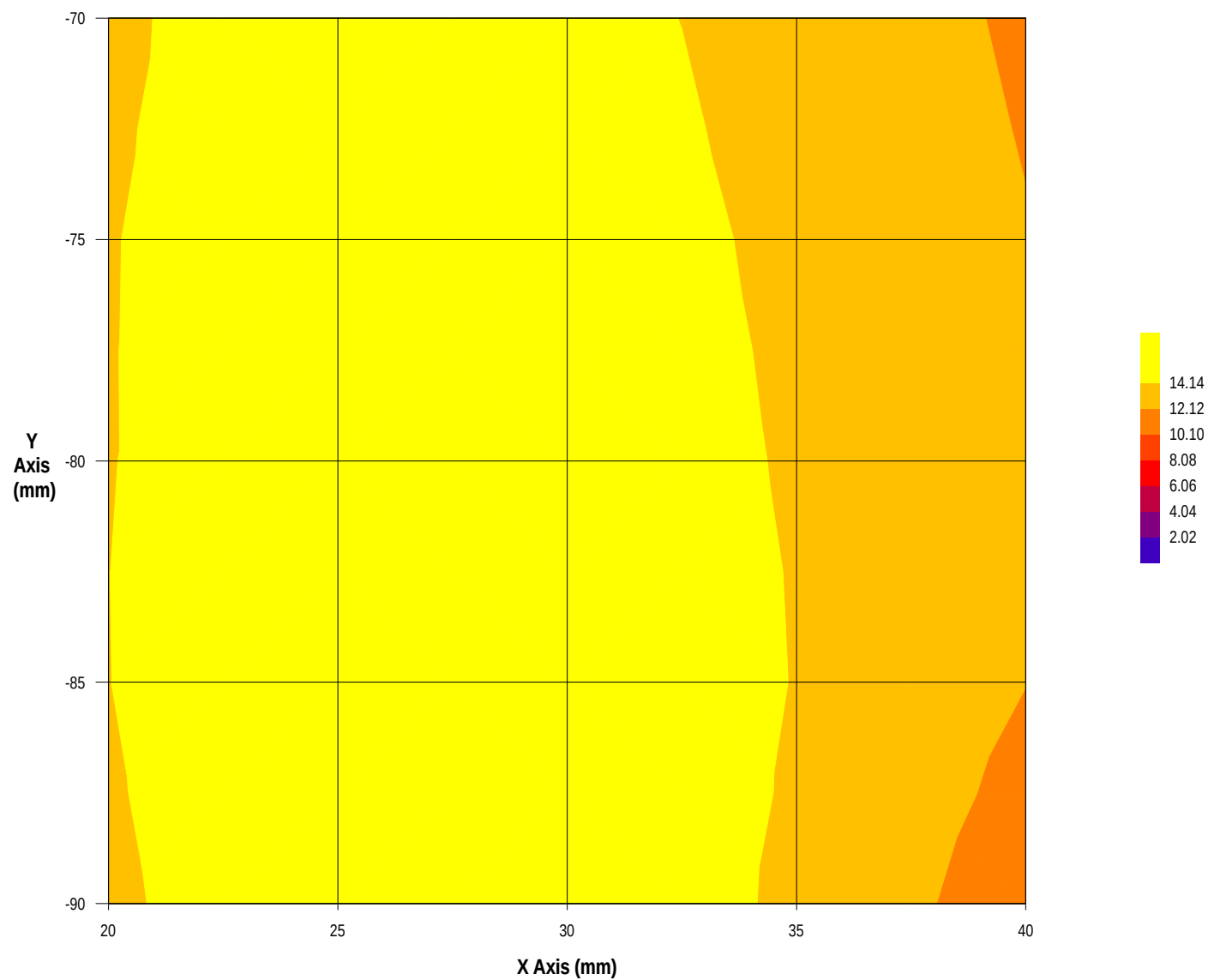
16.01	10.44	7.33	5.13	3.54	2.43
1.59	0.97	0.52	0.21	0.03	

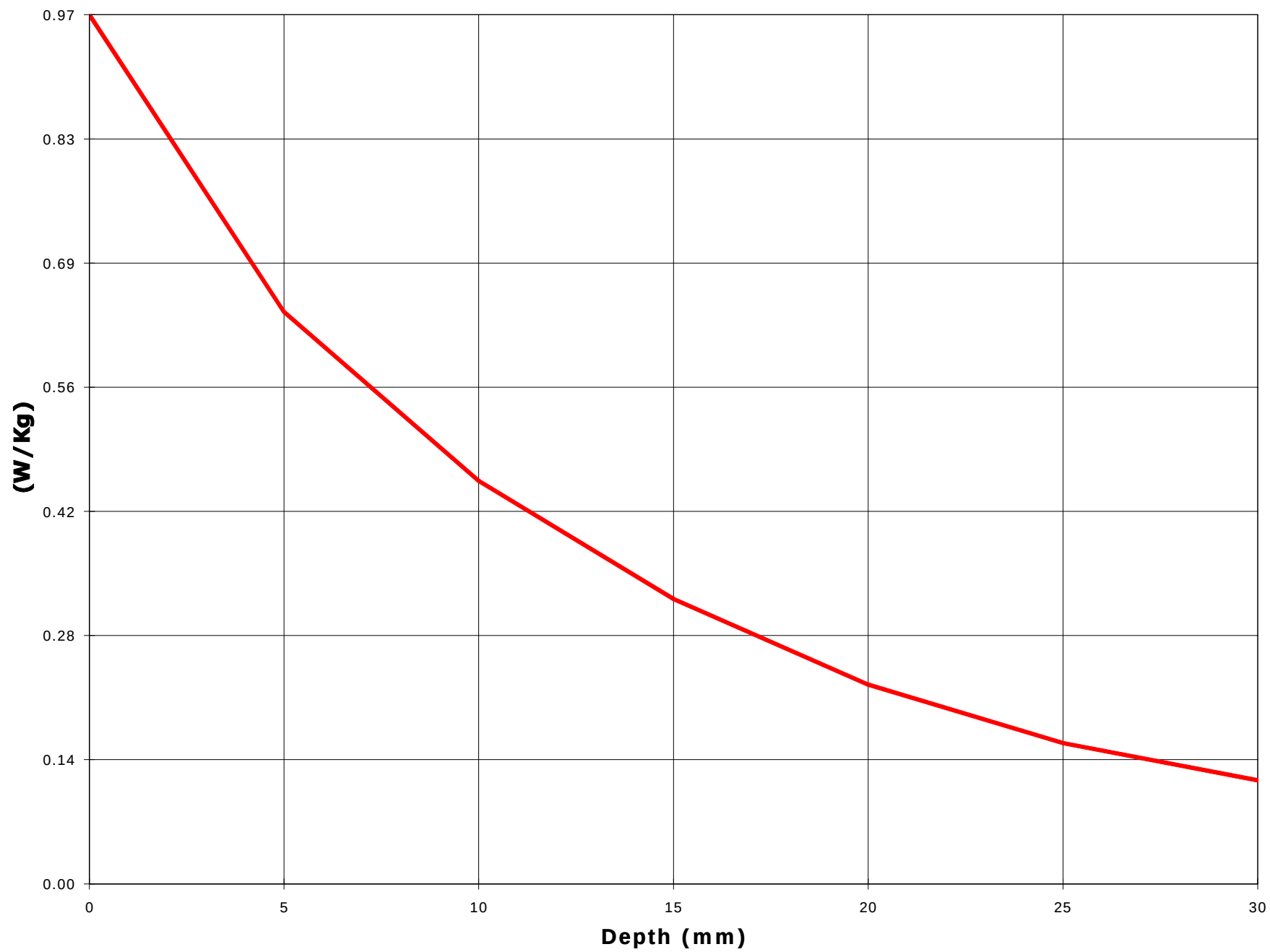
Peak Voltage (mV) : 20.26 1 Cm Voltage (mV) : 9.11 SAR (W/Kg) : 0.97











Date: 11/10/99, 8:31

Frequency: 835 MHz

Comments: Mitsubishi

Mixture: Muscle ('Brain' or 'Muscle')

of Points: 11

Point Dist: 1 cm.

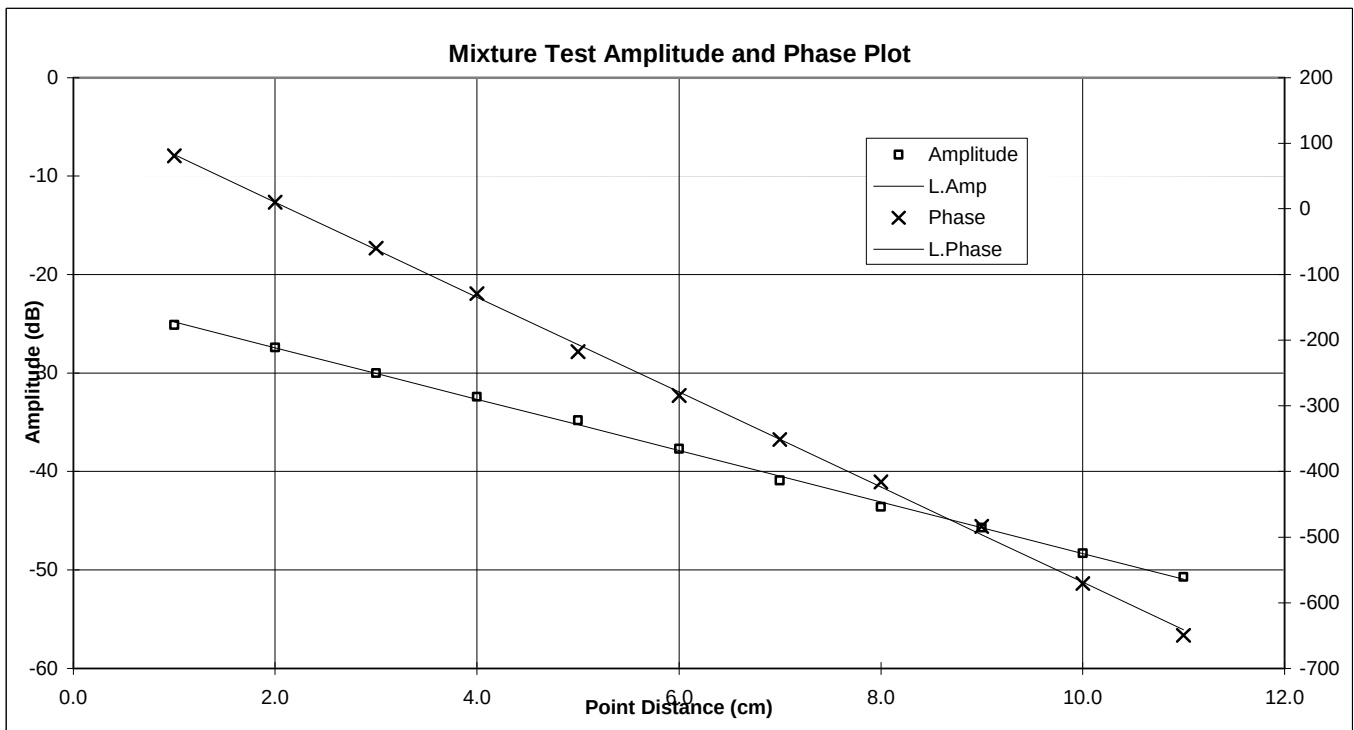
Room Temp.: 26

Point	Amplitude	Phase
1	-25.10	80.80
2	-27.40	10.50
3	-30.00	-59.70
4	-32.40	-128.80
5	-34.80	142.70
6	-37.70	75.80
7	-40.90	8.80
8	-43.60	-55.90
9	-45.70	-123.70
10	-48.30	149.30
11	-50.70	70.40

-49.9	
-51.6	
-53.5	-2.610909091
-55.3	-22.20727273
-56.9	-72.33545455
	154.94

Omega:	5246459731 rad/sec
Epsilon 0:	8.85E-14 F/m
mu:	1.26E-08 H/m
alpha avg:	-0.300592018 Np/cm
beta avg:	-1.262491848 rad/cm

Results:		Target	Low Limit	High Limit	% Off Target
D. Const:	49.1	52.0	49.4	54.6	-5.75
Cond:	1.15	1.10	1.045	1.155	4.55



Date: 11/11/99, 13:52

Frequency: 1900 MHz

Comments: Mitsubishi

Mixture: Muscle ('Brain' or 'Muscle')

of Points: 11

Point Dist: 0.5 cm.

Room Temp.: 26

Point	Amplitude	Phase
1	-42.30	51.00
2	-44.50	-45.40
3	-46.10	-118.20
4	-47.30	157.70
5	-48.50	82.30
6	-50.10	4.70
7	-52.30	-71.00
8	-53.70	-148.50
9	-55.80	132.20
10	-58.00	50.90
11	-60.40	-29.90

-49.9	
-51.6	
-53.5	-3.458181818
-55.3	-40.44363636
-56.9	-157.7054545
	119.0981818

Omega:	11938052084 rad/sec
Epsilon 0:	8.85E-14 F/m
mu:	1.26E-08 H/m
alpha avg:	-0.398137895 Np/cm
beta avg:	-2.75247943 rad/cm

Results:		Target	Low Limit	High Limit	% Off Target
D. Const:	46.8	50.0	47.5	52.5	-6.65
Cond:	1.46	1.50	1.425	1.575	-2.63

