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March 5, 2002

FCC ID: **AFJIC-M2A**
FCC Application Processing Branch
Correspondence Reference Number: **22101**
731 Confirmation Number: **EA940445**

Attn: **Mr. Martin Perrine**

1. With respect to obtaining the comparative test report from 3D-EMC laboratories, we were never provided with a full SAR report for the reference device but was provided with only the 1g average SAR value obtained for that sample. Due to operational issues with the reference sample (the phone became non-functional), we stopped using the phone for system verification about 6 months ago and have recently been using the dipole validation procedure as outlined in IEEE P1528. We have recently performed this validation again at your request and the results are attached. The frequency of validation was performed at 835MHz as we do not have a flat phantom large enough to perform the validation at 150MHz and that still meets the IEEE 1528 requirements. The worst case SAR was re-measured after the 835MHz validation was performed and the following tables summarizes the results.

	SAR (W/Kg) IEEE 1528 Specification	SAR (W/Kg) Measured	Deviation %
Dipole Validation 835MHz, 1Watt, 15mm distance	9.5	9.93	4.5%

	Nov 13, 2002 Scans	Mar 4, 2002 Scans
Worst Case SAR (W/Kg)	1.266 (2.531)	1.205 (2.410)

* The SAR measurements inside the parenthesis indicates the reading before the 50% duty factor is applied for the half-duplex type PTT device.

Should you require further information, please do not hesitate to contact me.

Regards,



Victor H. Kee, P.Eng
VP Marketing & Business Development

835MHz System Validation

Validation Info.

Date : 28/02/2002

Time : 5:30:45 PM

Product : System Validation

Manufacturer : UltraTech Lab.

Test : SAR

Frequency (MHz) : 835.0

Nominal Output Power (W) : 1.0

Antenna Type : Dipole

Signal : CW

Phantom : Flat

Simulated Tissue : Brain

Dielectric Constant : 43.5

Conductivity : 0.970

Probe : UT-ETR-0200-1

Probe Offset (mm) : 2.250

Sensor Factor (mV) : 10.8

Conversion Factor : 0.974

Calibrated Date : 21/12/2001

Antenna Position : Fixed

Measured Power (W) : 1.0
(Foward)

Amplifier Setting :

Channel 1 : 0.0052

Channel 2 : 0.0051

Channel 3 : 0.0064

Location of Maximum Field :

X = -4

Y = -4

Measured Values (mV) :

144.059 121.816 109.409 99.904 91.828 84.646

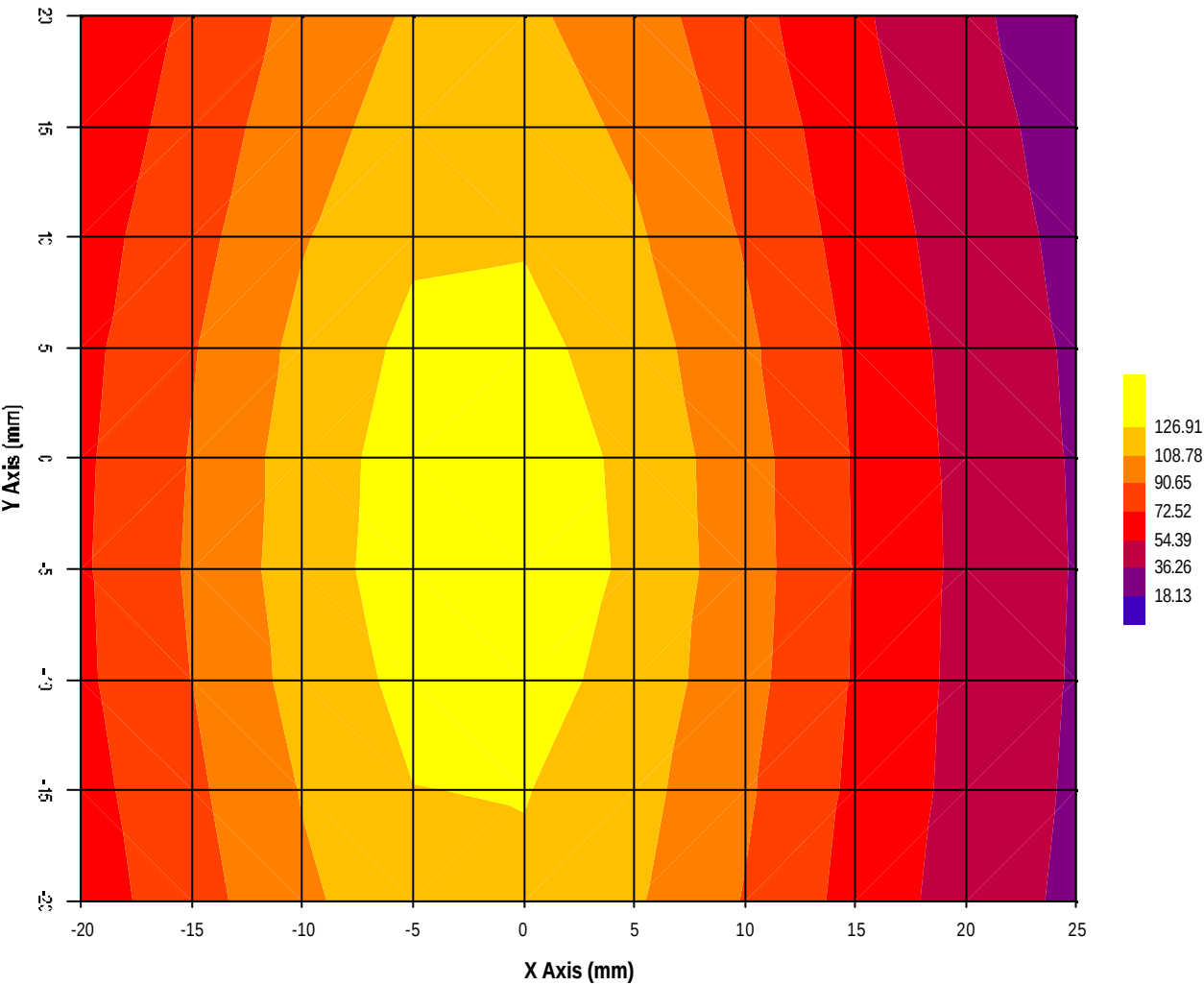
78.182 72.345 66.976 62.027 57.494

Peak Voltage (mV) : 178.824

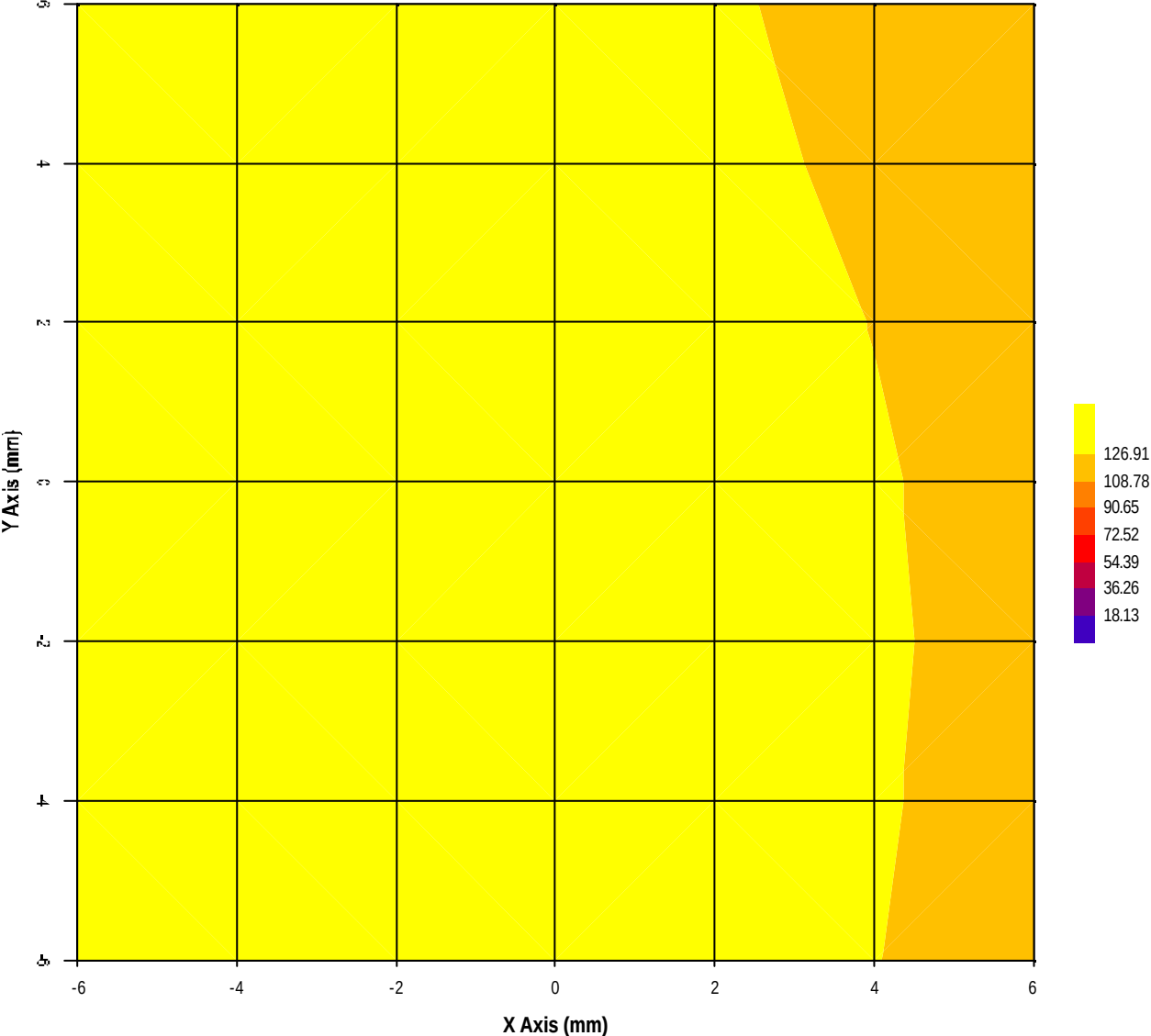
1 Cm Voltage (mV) : 71.055

SAR (W/Kg) : 9.934

835MHz System Validation



835MHz System Validation



Test Information

Date : 04/03/2002

Time : 3:00:41 PM

Product : Handheld VHF radio
Manufacturer : ICOM AMERICA
Model Number : IC-M2A
Serial Number : 0015
FCC ID Number : AFJ-IC-M2A

Test : SAR
Frequency (MHz) : 157.4
Nominal Output Power (W) : 5.0
Antenna Type : Monopole
Signal : CW

Phantom : Flat
Simulated Tissue : Muscle

Dielectric Constant : 61.5
Conductivity : 0.806

Probe : UT-ETR-0200-1
Probe Offset (mm) : 2.250
Sensor Factor (mV) : 10.8
Conversion Factor : 0.508
Calibrated Date : 08/11/2001

Antenna Position : Fixed

Amplifier Setting :

Channel 1 : 0.0067 Channel 2 : 0.0064 Channel 3 : 0.0081

Location of Maximum Field :

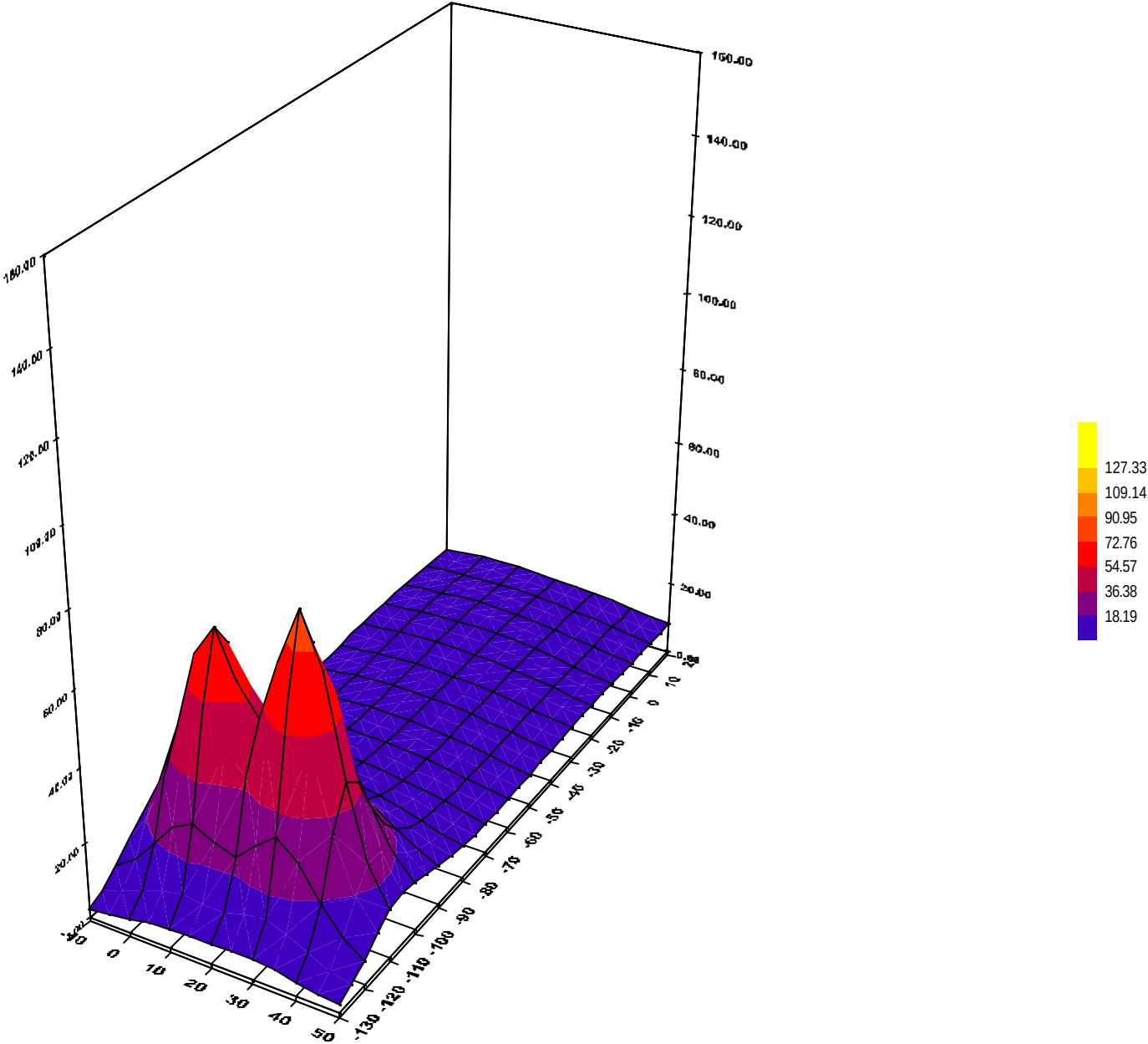
X = 30 Y = -110

Measured Values (mV) :

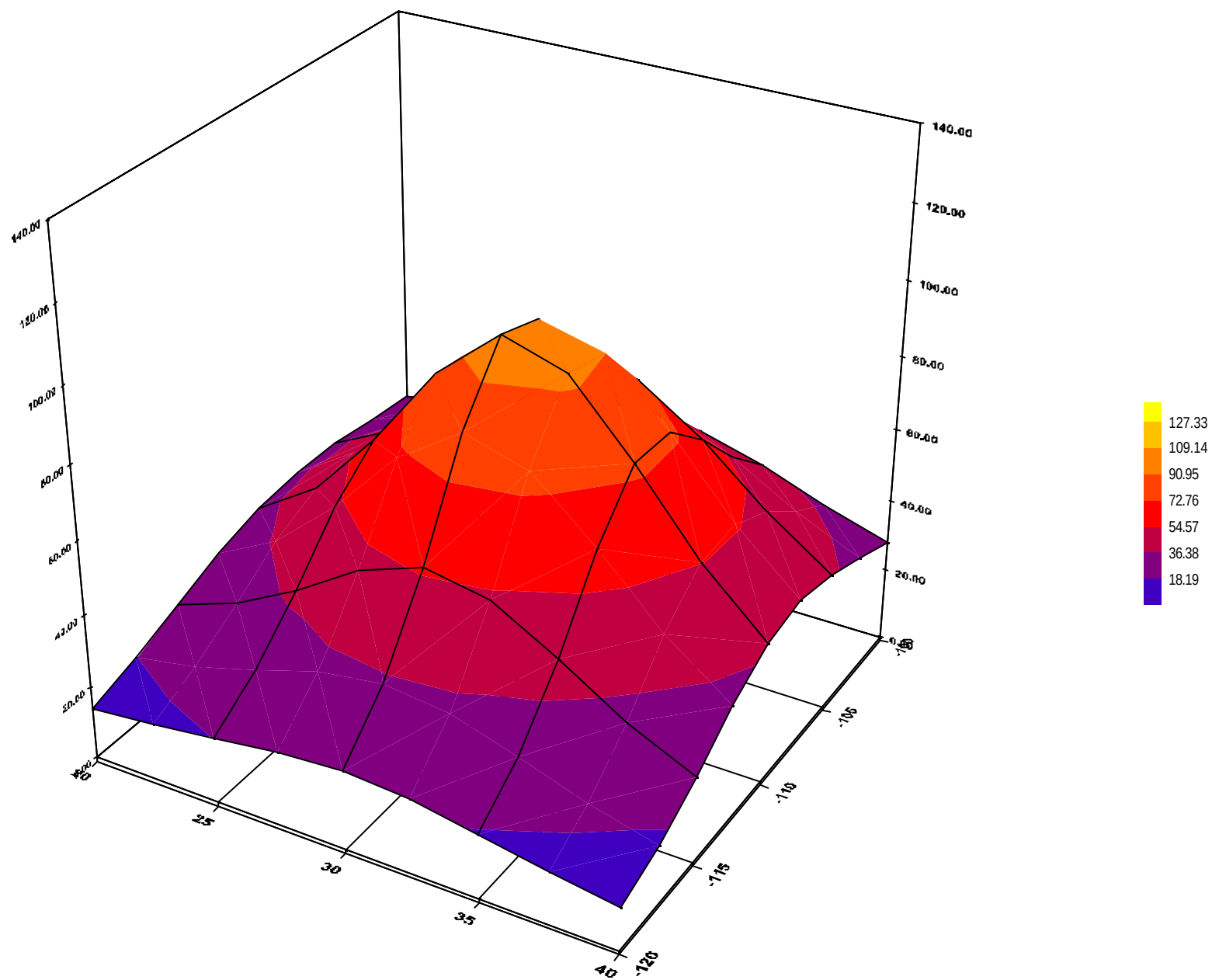
124.987	88.551	52.780	36.988	27.372	21.961
17.435	14.358	11.614	9.602	8.152	

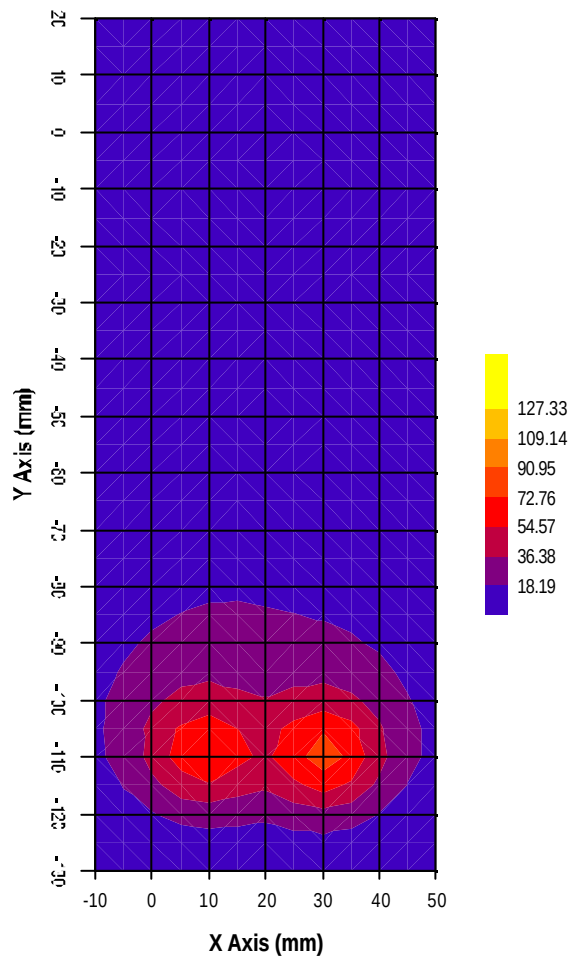
Peak Voltage (mV) : 294.020 **1 Cm Voltage (mV)** : 6.768 **SAR (W/Kg)** : 2.410

157.425MHz, Rotary belt clip(M/N: MB-87), Bottom of the EUT in contact with the phantom

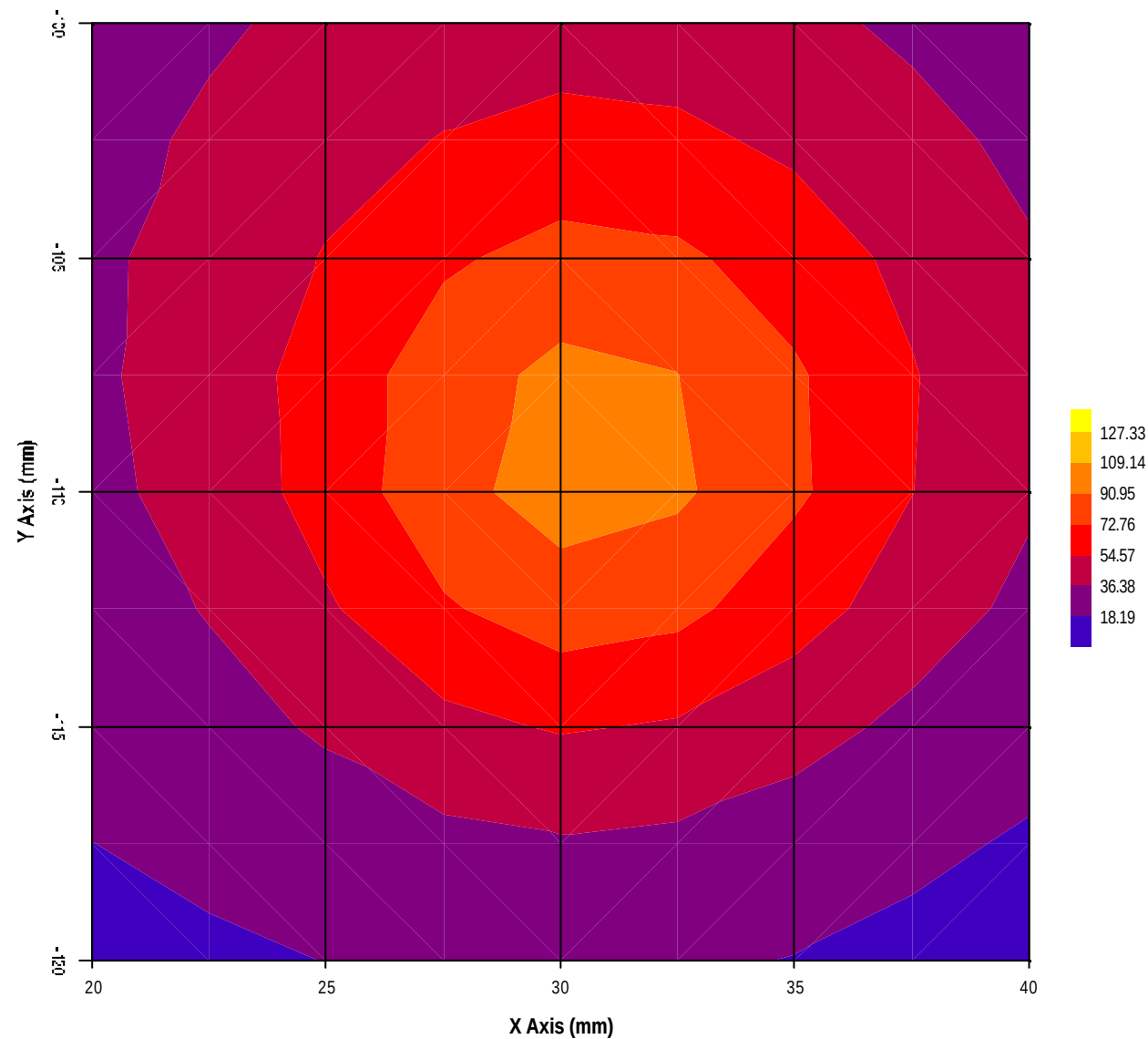


157.425MHz, Rotary belt clip(M/N: MB-87), Bottom of the EUT in contact with the phantom





157.425MHz, Rotary belt clip(M/N: MB-87), Bottom of the EUT in contact with the phantom



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