

SAR DATA SUMMARY

MEASUREMENT RESULTS (PCS Left Head SAR - Tilt)								
FREQUENCY		Modulation	Begin / End POWER [‡]			Device Test Position	Antenna Position	SAR (W/kg)
MHz	Ch.		(dBm)	Battery				
1851.25	25	CDMA	24.5	24.5	STANDARD	Ear / 15° Tilt	In	1.1174
1880.00	600	CDMA	24.5	24.5	STANDARD	Ear / 15° Tilt	In	0.9244
1908.75	1175	CDMA	24.5	24.5	STANDARD	Ear / 15° Tilt	In	0.9831
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Brain 1.6 W/kg (mW/g) averaged over 1 gram		

NOTES:

- The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration. Test procedures used are according to FCC/OET Bulletin 65, Supp.C [July 2001].
 - All modes of operation were investigated, and worst-case results are reported.
 - Battery is fully charged for all readings.
- [‡]Power Measured ☒ Conducted ☐ ERP ☐ EIRP
☐ DASY3 ☒ IDX
 SAR Measurement System ☐ Right Head ☐ Flat Phantom ☒ Left Head
 Phantom Configuration ☒ Head ☐ Body ☐ Hand
 SAR Configuration ☒ Manu. Test Codes ☐ Base Station Simulator
 Test Signal Call Mode

PCTEST® SAR TEST REPORT		SAR EVALUATION REPORT DATA		
Company Name: SEWON TELECOM	FCC ID: PFZCTE310X	Model: CTE-310X	SAR Test Dates: 05/01/2002	PAGE 1 OF 13

File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/02050106_ZOOM.VLT

Start : 1-May-102 10:57:47 am End : 1-May-102 11:07:29 am

Radio Type : SEWON
Model Number : CTE-310X
Serial Number : 2
Frequency : 1851.25 MHz
Peak Trans. Pwr : 0.280 W
Start Trans. Pwr: 0.280 W
Antenna Type : Helical
Antenna Posn. : In
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 40.200
Mixture Conductivity = 1.390

Comment :

SEWON TRI-MODE PHONE - PCS MODE
CH 0025 Conducted 24.5 dBm
SEWON TRI-MODE PHONE - TILT

Robot : PCTEST

Probe Offset = 0.20 cm
Sensor Factor = 0.0108
Conversion Factor = 0.550

PCTEST Amplifier Channel Settings : 0.309 0.361 0.421

Max Location : X = -0.500, Y = -3.000, Z = 0.000 (cm) Value = 27.309

Measured Values (volts) =

2.645E-002	2.094E-002	1.434E-002	1.052E-002	8.052E-003	6.061E-003
4.497E-003	3.553E-003	2.795E-003	2.134E-003	2.049E-003	1.532E-003
1.477E-003	8.283E-004	1.032E-003	1.367E-003	1.260E-003	1.222E-003
1.324E-003	1.758E-003	1.336E-003			

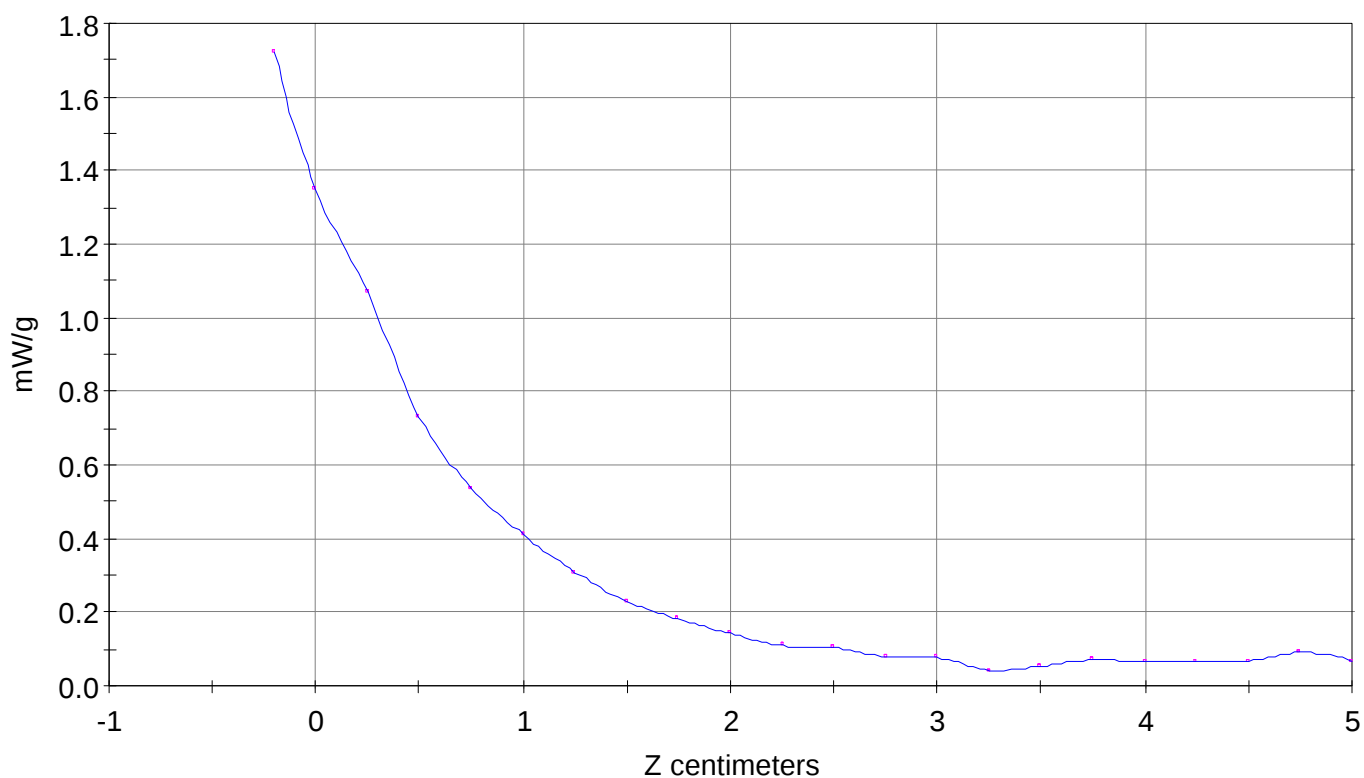
Calc. Voltage @ Surface (Vs) = 0.0339

Voltage @ 1.00 cm (Vt) = 0.0100

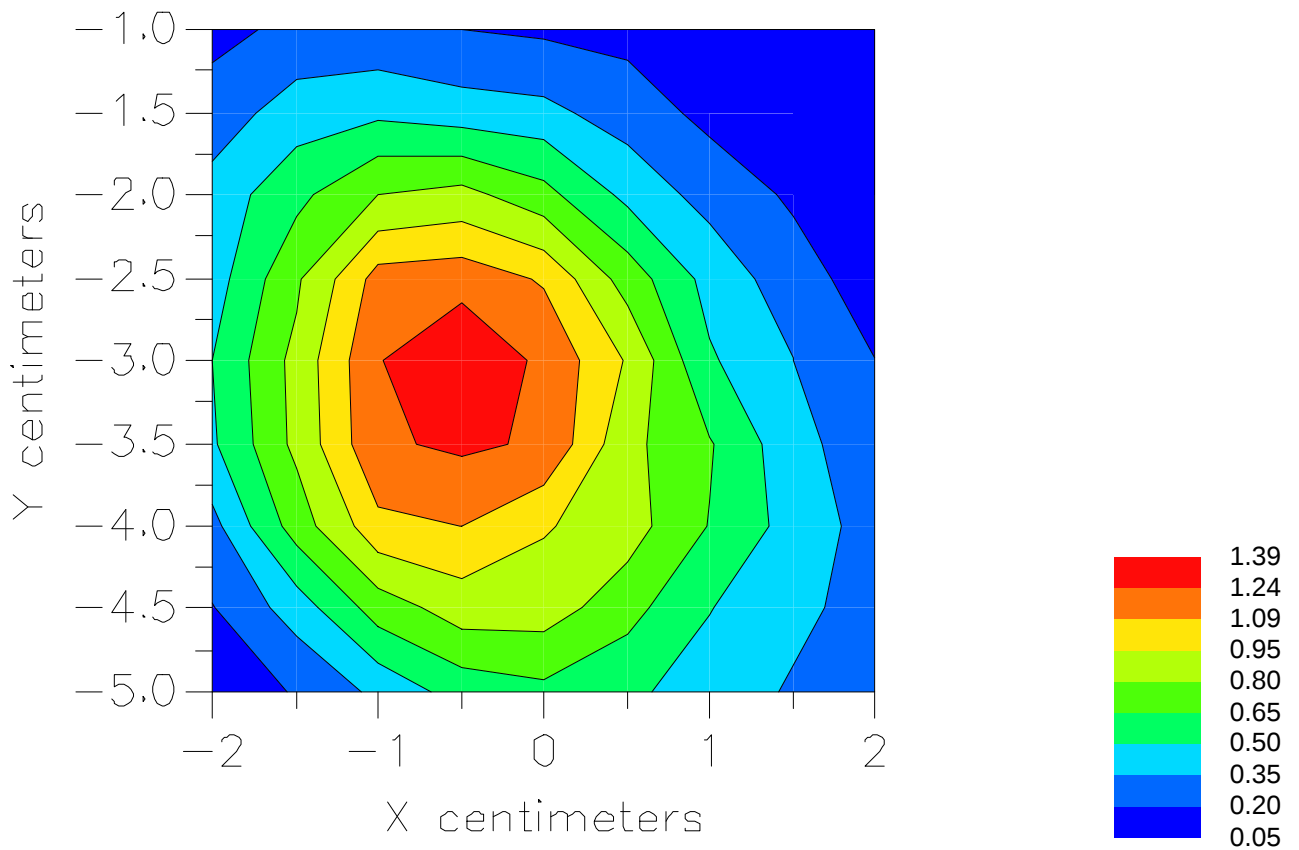
Ave. Voltage (Vs+Vt)/2 = 0.0219

Ave. SAR over 1 g (mW/g) = 1.1174

SAR Scan
File : 02050106_ZOOM
Start : 1-May-102 10:57:47 am End : 1-May-102 11:07:29 am
SEWON/CTE-310X/2;1851.25MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/40.200/1.390



File : 02050106_ZOOM
Start : 1-May-102 10:57:47 am End : 1-May-102 11:07:29 am
SEWON/CTE-310X/2;1851.25MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/40.200/1.390

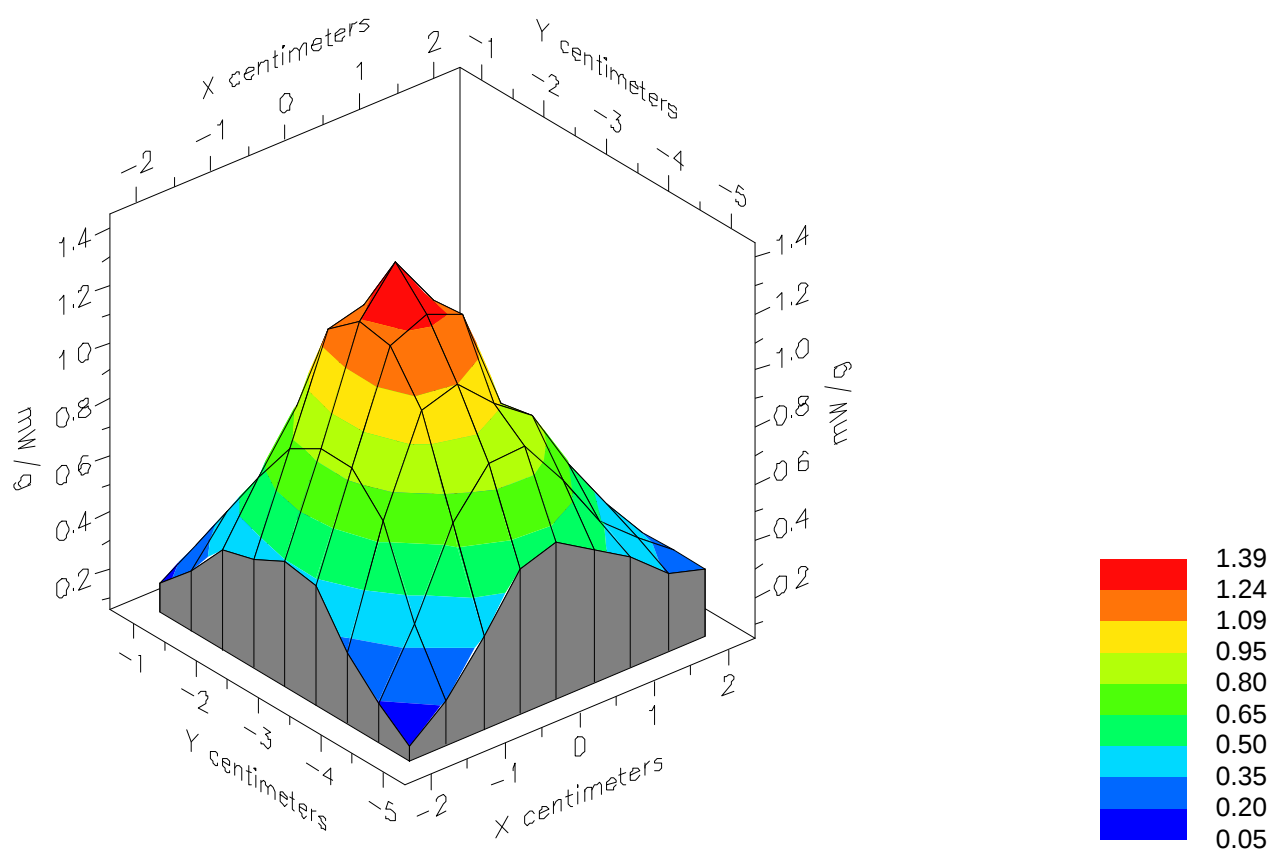


File : 02050106_ZOOM

Start : 1-May-102 10:57:47 am End : 1-May-102 11:07:29 am

SEWON/CTE-310X/2;1851.25MHz;W;Helical/In;

Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/40.200/1.390



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/02050110_ZOOM.VLT
Start : 1-May-102 11:41:51 am End : 1-May-102 11:51:33 am

Radio Type : SEWON
Model Number : CTE-310X
Serial Number : 2
Frequency : 1880.00 MHz
Peak Trans. Pwr : 0.280 W
Start Trans. Pwr: 0.280 W
Antenna Type : Helical
Antenna Posn. : In
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 40.200
Mixture Conductivity = 1.390

Comment :
SEWON TRI-MODE PHONE - PCS MODE
CH 0600 Conducted 24.5 dBm
SEWON TRI-MODE PHONE - TILT

Robot : PCTEST

Probe Offset = 0.20 cm
Sensor Factor = 0.0108
Conversion Factor = 0.550

PCTEST Amplifier Channel Settings : 0.309 0.361 0.421

Max Location : X = 0.000, Y = -3.000, Z = 0.000 (cm) Value = 23.054

Measured Values (volts) =
2.198E-002 1.691E-002 1.227E-002 8.987E-003 6.765E-003 4.916E-003
3.937E-003 2.995E-003 2.130E-003 1.775E-003 1.781E-003 1.295E-003
1.234E-003 1.158E-003 1.410E-003 1.539E-003 1.130E-003 1.240E-003
1.080E-003 1.493E-003 1.971E-003

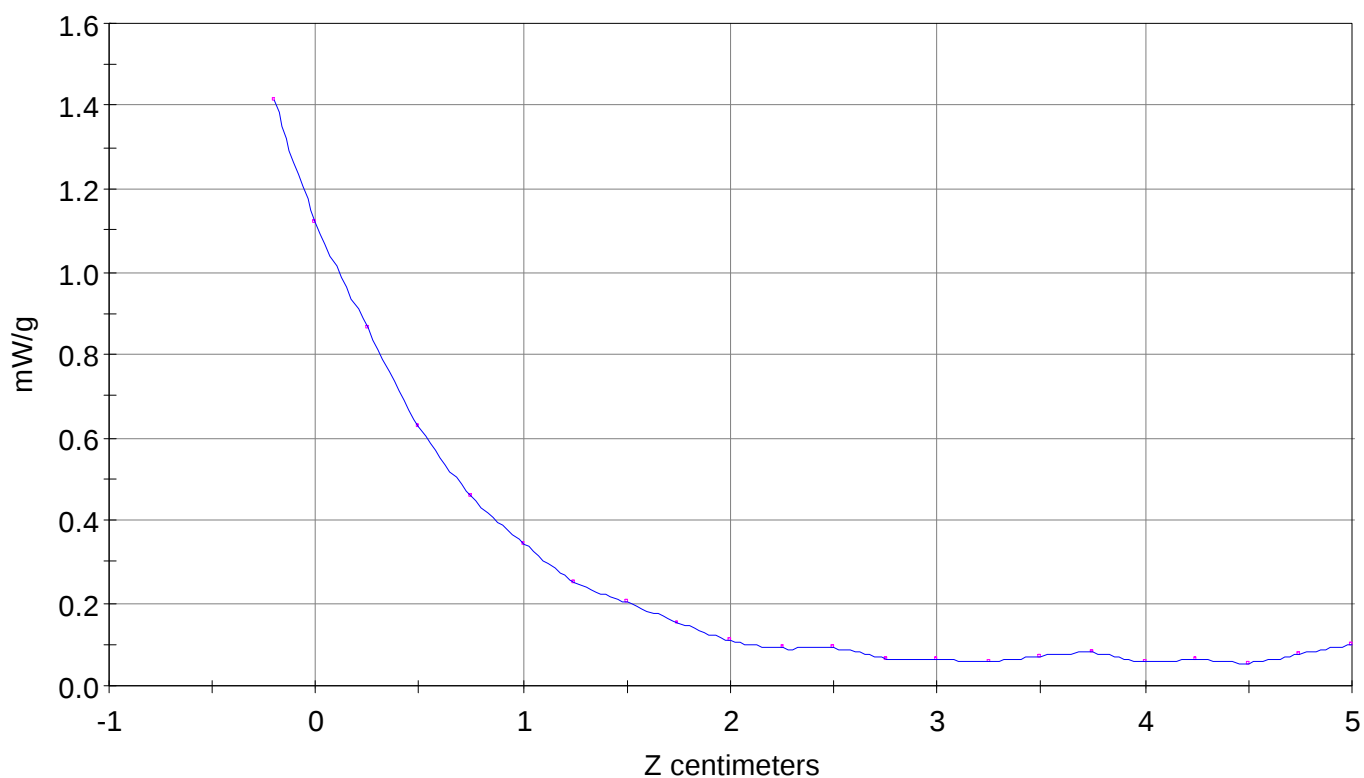
Calc. Voltage @ Surface (Vs) = 0.0278

Voltage @ 1.00 cm (Vt) = 0.0085

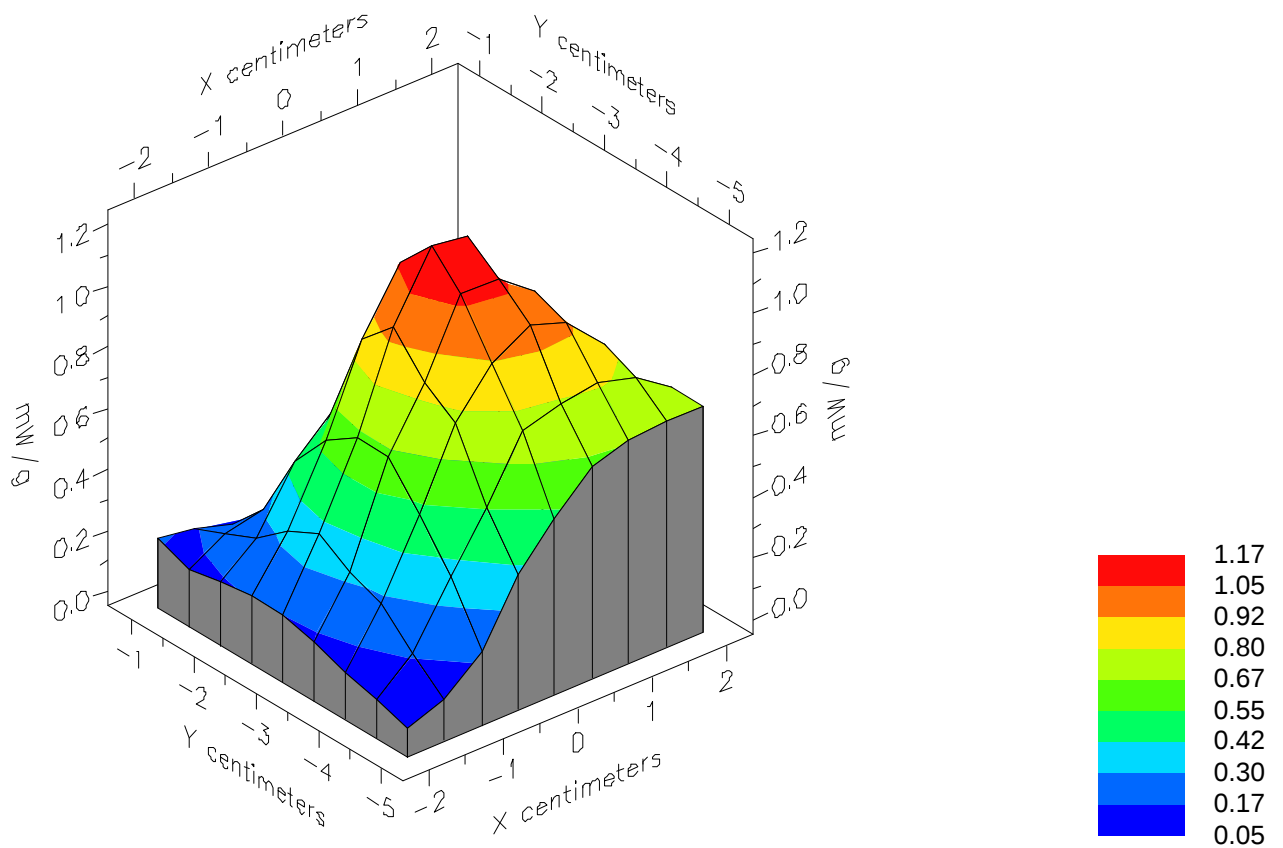
Ave. Voltage (Vs+Vt)/2 = 0.0182

Ave. SAR over 1 g (mW/g) = 0.9244

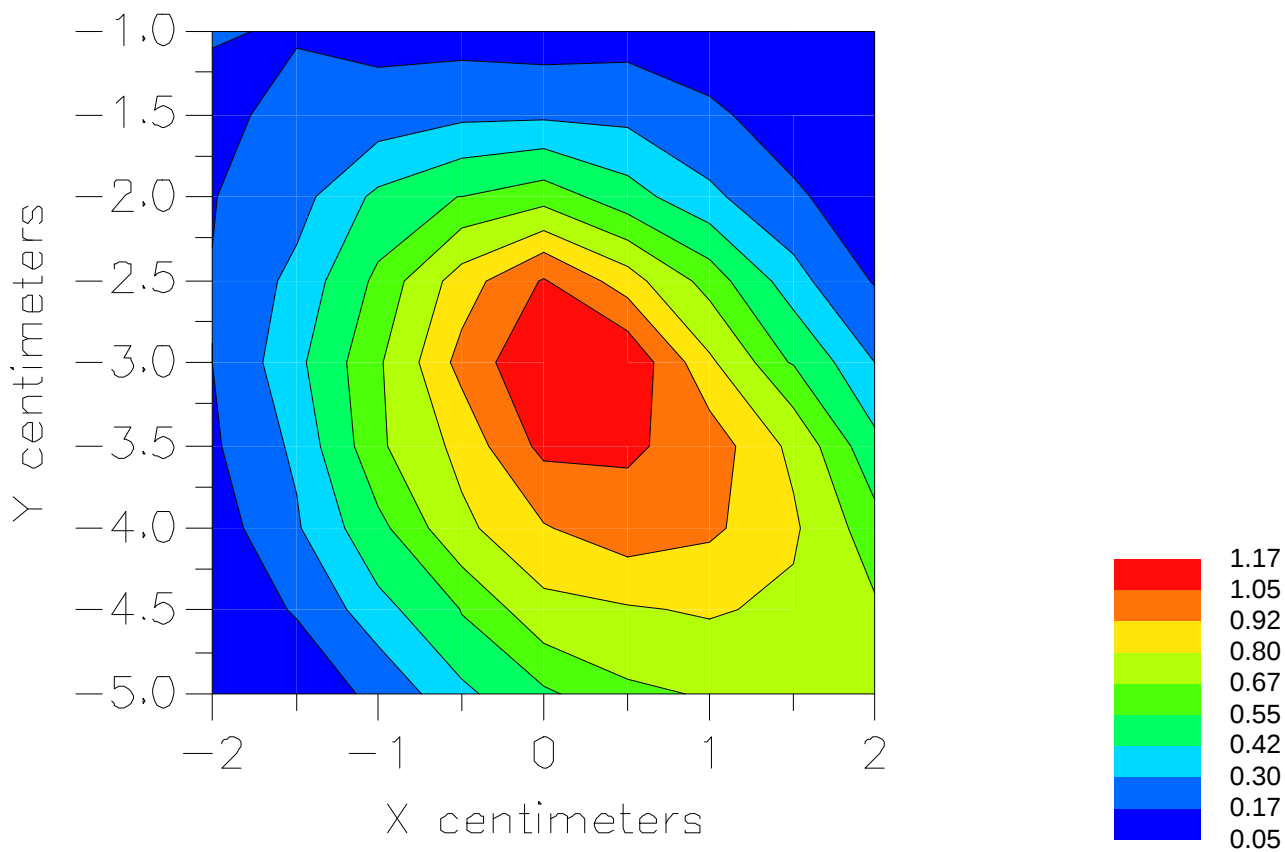
SAR Scan
File : 02050110_ZOOM
Start : 1-May-102 11:41:51 am End : 1-May-102 11:51:33 am
SEWON/CTE-310X/2;1880.00MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/40.200/1.390



File : 02050110_ZOOM
Start : 1-May-102 11:41:51 am End : 1-May-102 11:51:33 am
SEWON/CTE-310X/2;1880.00MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/40.200/1.390



File : 02050110_ZOOM
Start : 1-May-102 11:41:51 am End : 1-May-102 11:51:33 am
SEWON/CTE-310X/2;1880.00MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/40.200/1.390



File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/02050118_ZOOM.VLT
Start : 1-May-102 12:25:39 pm End : 1-May-102 12:35:22 pm

Radio Type : SEWON
Model Number : CTE-310X
Serial Number : 2
Frequency : 1908.75 MHz
Peak Trans. Pwr : 0.280 W
Start Trans. Pwr: 0.280 W
Antenna Type : Helical
Antenna Posn. : In
Phantom Type : Head
Phantom Posn. : Left Ear
Scan Type : ZOOM/SAR
Probe Name : PCTEST
Field Type : E Field
Orientation : 0 Degrees

Mixture Type = Brain
Mixture Dielectric Constant = 40.200
Mixture Conductivity = 1.390

Comment :
SEWON TRI-MODE PHONE - PCS MODE
CH 1175 Conducted 24.5 dBm
SEWON TRI-MODE PHONE - TILT

Robot : PCTEST

Probe Offset = 0.20 cm
Sensor Factor = 0.0108
Conversion Factor = 0.550

PCTEST Amplifier Channel Settings : 0.309 0.361 0.421

Max Location : X = 0.000, Y = -3.000, Z = 0.000 (cm) Value = 23.624

Measured Values (volts) =
2.344E-002 1.769E-002 1.258E-002 8.996E-003 6.650E-003 4.946E-003
3.775E-003 3.027E-003 2.122E-003 1.965E-003 1.479E-003 1.305E-003
1.108E-003 1.042E-003 1.453E-003 1.011E-003 1.380E-003 9.829E-004
1.126E-003 1.361E-003 1.874E-003

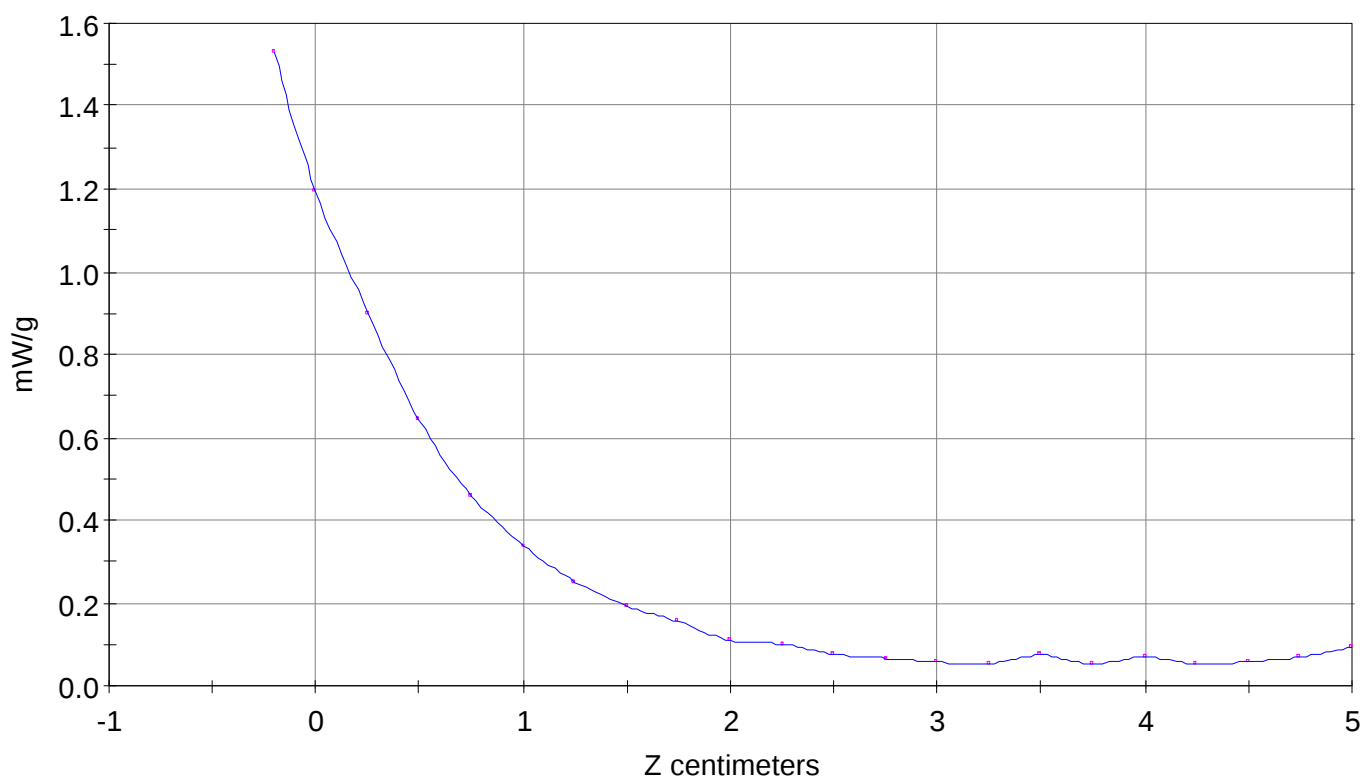
Calc. Voltage @ Surface (Vs) = 0.0301

Voltage @ 1.00 cm (Vt) = 0.0085

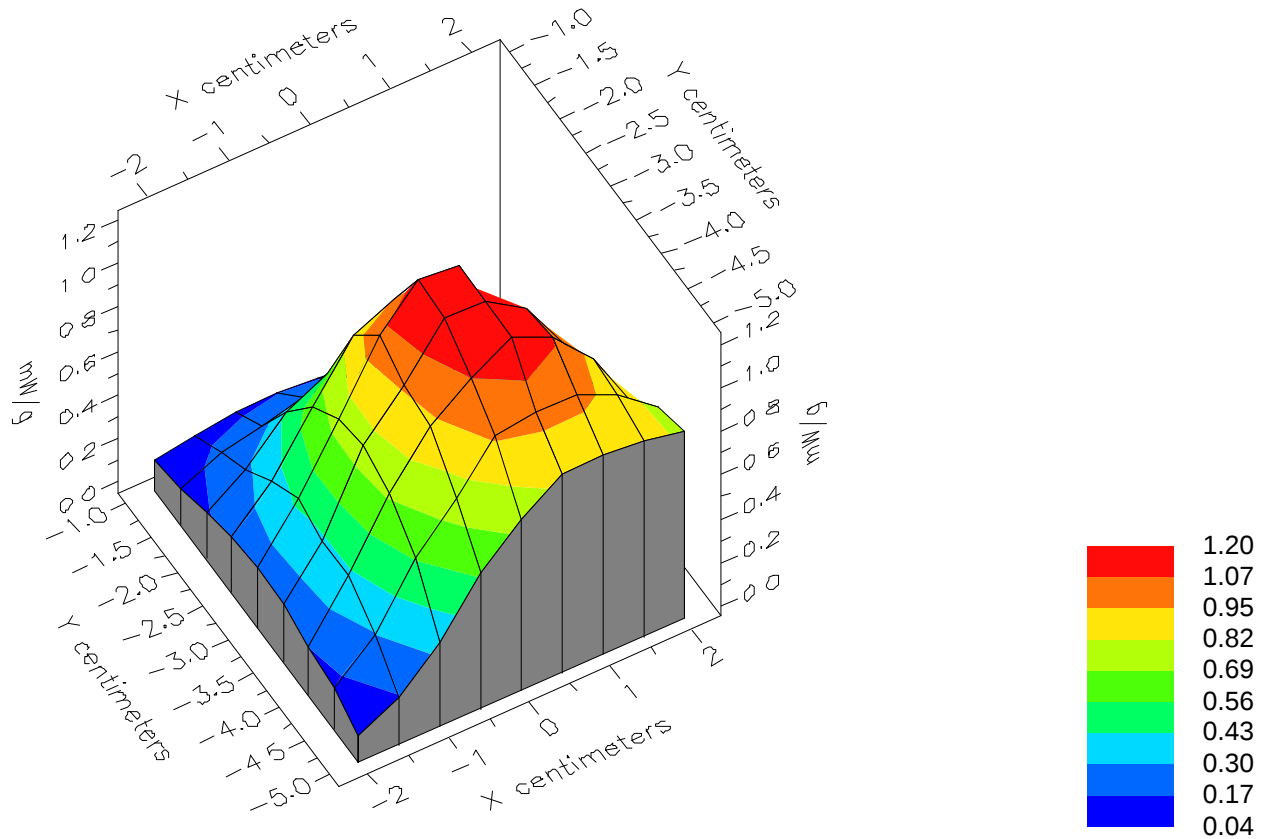
Ave. Voltage (Vs+Vt)/2 = 0.0193

Ave. SAR over 1 g (mW/g) = 0.9831

SAR Scan
File : 02050118_ZOOM
Start : 1-May-102 12:25:39 pm End : 1-May-102 12:35:22 pm
SEWON/CTE-310X/2;1908.75MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/40.200/1.390



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SEWON/CTE-310X/2;1908.75MHz;W;Helical/In;
Head/Left Ear;ZOOM/SAR;PCTEST/E Field/0 DegreesBrain/40.200/1.390

