13.1 SAR TEST DATA SUMMARY

Ambient TEMPERATURE (°C)	22.1
Relative HUMIDITY (%)	41.0
Atmospheric PRESSURE (kPa)	101.2

Measured Values:

Mixture Type: **Brain**

Dielectric Constant: **41.4**

Conductivity: **0.90**

Liquid Depth: **15.1 cm**

Closest Distance (between E-Probe & Phone): 1.4 cm

13.2 Measurement Results (AMPS & CDMA Head SAR)

FREQUENCY MHz	FREQUENCY Ch.	Modulation	POWER (dBm)	Phantom Position	Antenna Position	SAR (W/kg)
824.04	991	AMPS	26.8	Left Cheek	IN	1.3877
824.04	991	AMPS	26.8	Left Cheek	OUT	1.1701
836.49	383	AMPS	26.8	Left Cheek	IN	1.2174
836.49	383	AMPS	26.8	Left Cheek	OUT	1.0866
848.97	799	AMPS	26.8	Left Cheek	IN	1.3417
848.97	799	AMPS	26.8	Left Cheek	OUT	1.2727
824.70	1013	CDMA	25.0	Left Cheek	IN	1.1012
824.70	1013	CDMA	25.0	Left Cheek	OUT	0.9000

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:

1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration.
2. All modes of operation were investigated and the worst-case are reported.
3. Battery condition is fully charged for all readings.
4. Power Measured ☒ Conducted ☐ EIRP ☐ ERP
5. SAR Measurement System ☐ SPEAG ☒ IDX
6. SAR Configuration ☒ Head ☐ Body ☐ Hand

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President

Fig. 14
Head SAR Test Setup

File : c:/idx3/SYSTEM/SARMEAS3/data/Normal/01101606_ZOOM.VLT
Start : 16-Oct-101 01:46:22 pm End : 16-Oct-101 01:56:06 pm

Radio Type   : SEWON
Model Number   : CTE-310X
Serial Number   : 2
Frequency   : 836.49 MHz
Peak Trans. Pwr : 0.480 W
Start Trans. Pwr: 0.480 W
Antenna Type   : Helical
Antenna Posn.   : Out
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 = 41.500
Mixture Conductivity   = 0.900

Comment :
    SEWON TRI-MODE PHONE - AMPS MODE
    CH 0383   Conducted 26.8 dBm
    SEWON TRI-MODE PHONE

Robot   : PCTEST

Probe Offset   = 0.20 cm
Sensor Factor   = 0.0108
Conversion Factor   = 0.325

PCTEST   Amplifier Channel Settings : 0.239   0.278   0.294

Max Location : X = 2.000, Y = -4.500, Z =   0.000   (cm) Value = 44.258

Measured Values (volts) =
  4.261E-002 3.398E-002 2.742E-002 2.204E-002 1.874E-002 1.586E-002
  1.333E-002 1.145E-002 9.394E-003 8.102E-003 6.413E-003 5.345E-003
  4.256E-003 3.834E-003 3.383E-003 3.008E-003 2.976E-003 3.121E-003
  3.048E-003 2.514E-003 2.560E-003

Calc. Voltage @ Surface (Vs) = 0.0508

Voltage @ 1.00 cm (Vt)   = 0.0214

Ave. Voltage (Vs+Vt)/2   = 0.0361

Ave. SAR over 1 g (mW/g)   = 1.0866