
	System Validation Plots
	Project name :
	KS100823B02-SF

EUT DESCRIPTION

Product:	Mobile Phone
Model:	Fenix
Trade name:	Xeuss
Tested:	August 24, 2010
Applicant:	Mastercell LLC
	759 Bloomfield Ave 161 West Caldwell, NJ 07006 USA

Air Temperature: 21 °C Liquefied Temperature: 20 °C

Crest Factor: CW: 1 GSM: 8 GPRS 10: 4

Area Scan: 7 x 7 x 1 dx=15mm dy=15mm

Zoom Scan: 5 x 5 x 7 dx=5mm dy=5mm dz=5mm

Z Axis Scan: 1 x 1 x 21 dx=20mm dy=20mm dz=5mm

Probe: Antennessa (SN:SN_1109_EP_100)

Compliance Certification Services (Kunshan) Inc.
No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part,
Kunshan City, Jiangsu Province, PRC.
TEL: 86-512-57355888
FAX: 86-512-57370818
<http://www.ccsrf.com>

850 HEAD VALIDATION

I. RESULTS

	<u>TYPE</u>	<u>PARAMETERS</u>
<u>GSM850</u>	<u>Noise</u>	--
	<u>Validation</u>	<u>Measurement 1:</u> Validation Plane with Dipole device position on Middle Channel in CW mode
	<u>Phone</u>	--

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 08/24/2010

Measurement duration: 6 minutes 41 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

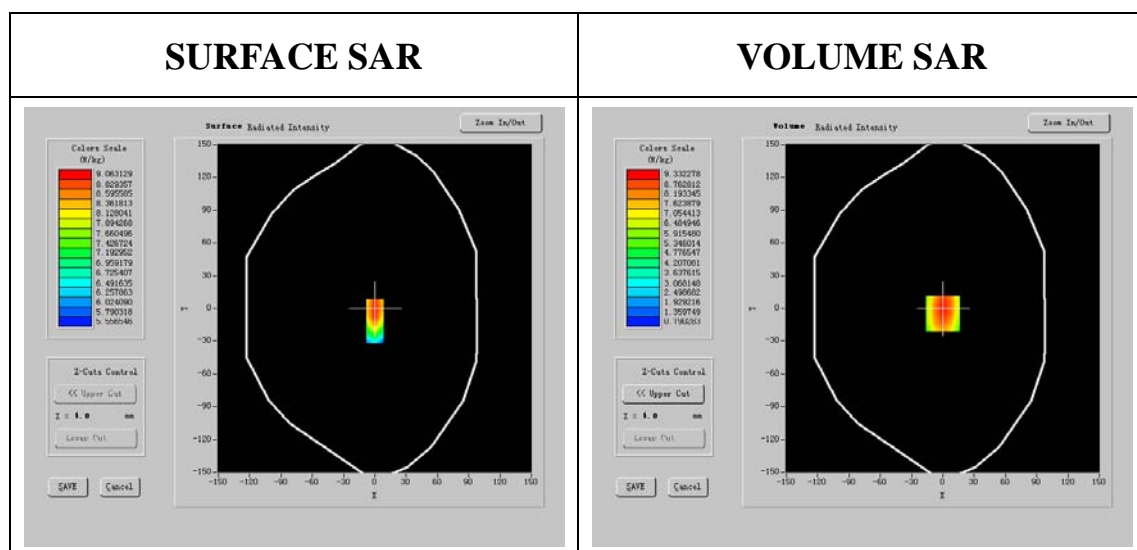
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM850
Channels	Middle
Signal	CW

B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

Frequency (MHz)	835.000000
Relative permittivity (real part)	41.467443
Relative permittivity (imaginary part)	19.592850
Conductivity (S/m)	0.908114
Variation (%)	0.600000

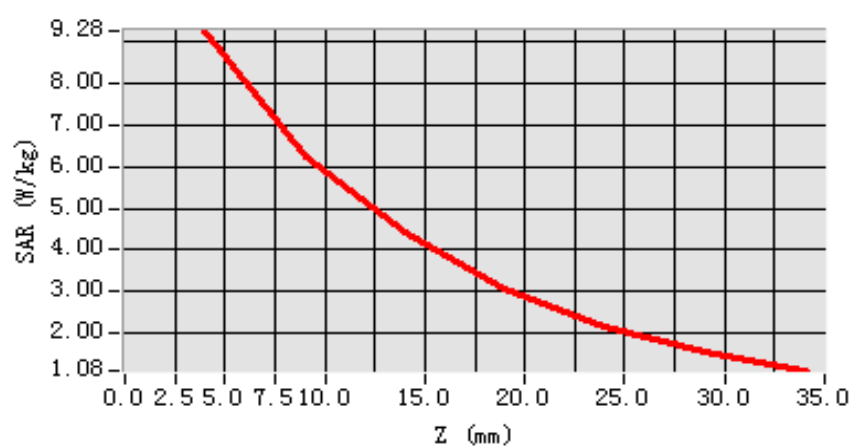


Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	6.143568
SAR 1g (W/Kg)	9.321774

Z Axis Scan

SAR, Z Axis Scan (X = 0, Y = -5)



1900 HEAD VALIDATION

I. RESULTS

	<u>TYPE</u>	<u>PARAMETERS</u>
<u>GSM1900</u>	<u>Noise</u>	--
	<u>Validation</u>	<u>Measurement 1:</u> Validation Plane with Cheek device position on Middle Channel in CW mode
	<u>Phone</u>	--

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 08/24/2010

Measurement duration: 7 minutes 3 seconds

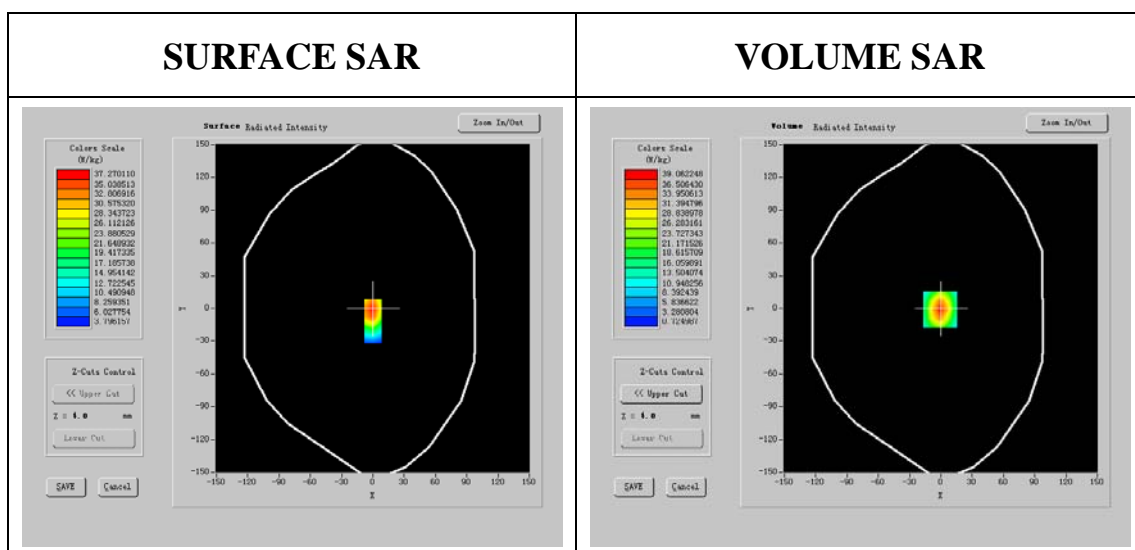
Mobile Phone IMEI number: --

A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Cheek
Band	GSM1900
Channels	Middle
Signal	CW

B. SAR Measurement Results

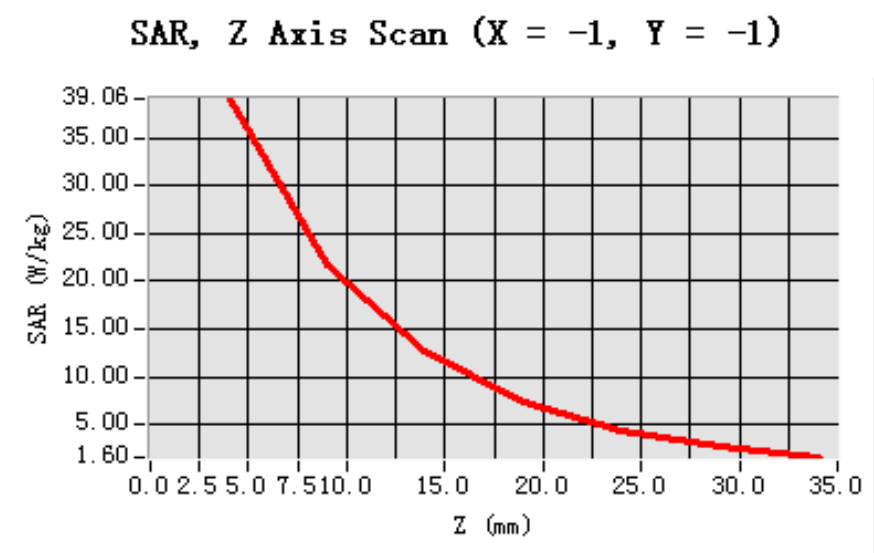
Frequency (MHz)	1900.000000
Relative permittivity (real part)	40.233659
Relative permittivity (imaginary part)	13.740258
Conductivity (S/m)	1.412467
Variation (%)	0.085000



Maximum location: X=-1.00, Y=-1.00

SAR 10g (W/Kg)	20.427734
SAR 1g (W/Kg)	38.993579

Z Axis Scan



850 BODY VALIDATION

I. RESULTS

	<u>TYPE</u>	<u>PARAMETERS</u>
<u>GSM850</u>	<u>Noise</u>	--
	<u>Validation</u>	<u>Measurement 1:</u> Validation Plane with Dipole device position on Middle Channel in CW mode
	<u>Phone</u>	--

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 08/24/2010

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

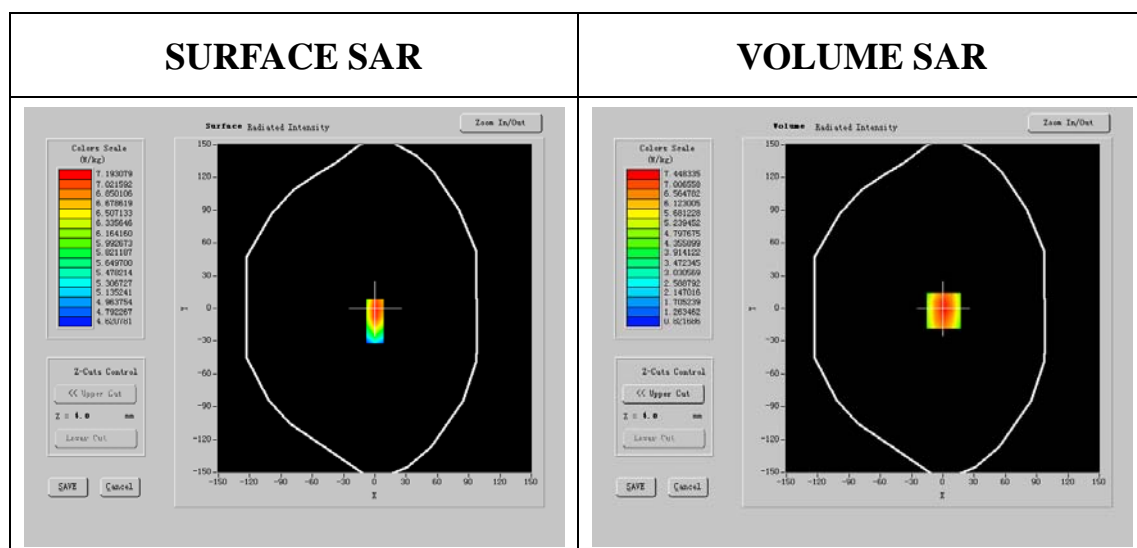
Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM850
Channels	Middle
Signal	CW

B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthesizer	Agilent (E8257C, SN:MY43321570)
Amplifier	Mini-Circuits (ZHL-42, SN:110405)
Power Meter	Agilent (E4416A, SN:QB41292714)
Probe	Antennessa (SN:SN_1109_EP_100)
Phantom	Antennessa (SN:SN41_05_SAM29)
Liquid	Antennessa

C. SAR Measurement Results

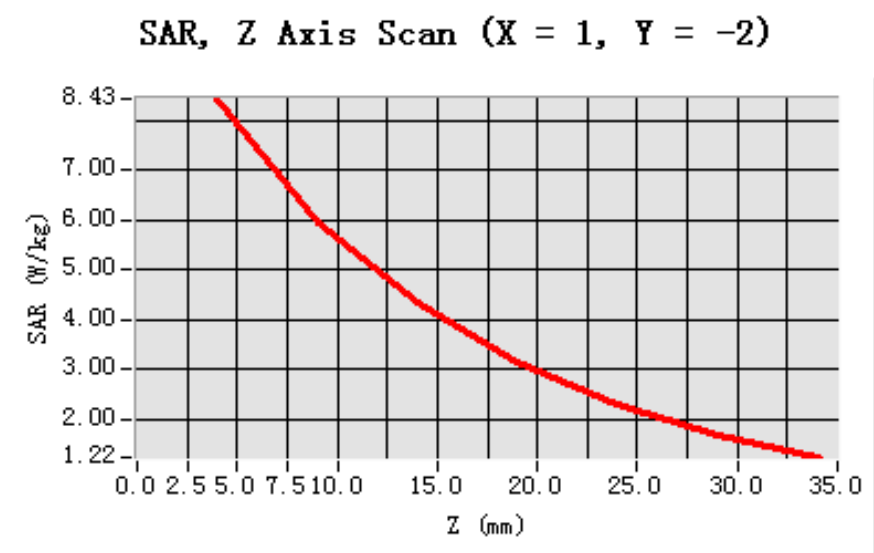
Frequency (MHz)	835.000000
Relative permittivity (real part)	55.403325
Relative permittivity (imaginary part)	22.115744
Conductivity (S/m)	0.964369
Variation (%)	0.240000



Maximum location: X=1.00, Y=-2.00

SAR 10g (W/Kg)	6.237842
SAR 1g (W/Kg)	9.627885

Z Axis Scan



1900 BODY VALIDATION

I. RESULTS

	<u>TYPE</u>	<u>PARAMETERS</u>
<u>GSM1900</u>	<u>Noise</u>	--
	<u>Validation</u>	<u>Measurement 1:</u> Validation Plane with Dipole device position on Middle Channel in CW mode
	<u>Phone</u>	--

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 08/24/2010

Measurement duration: 6 minutes 43 seconds

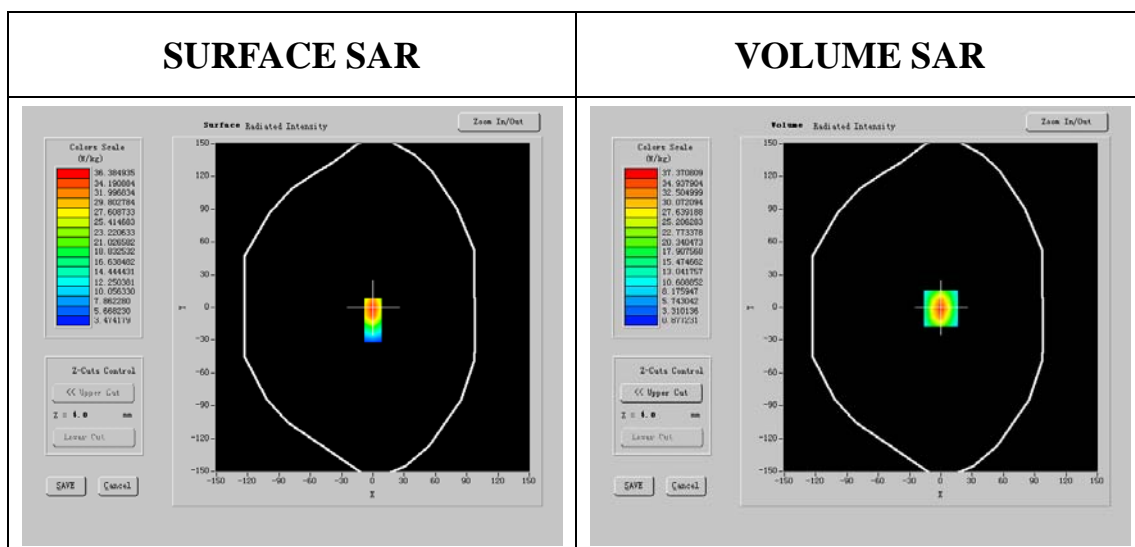
Mobile Phone IMEI number: --

A. Experimental conditions.

Phantom File	surf_sam_plan.txt, Adaptive 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM1900
Channels	Middle
Signal	CW

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative permittivity (real part)	52.993168
Relative permittivity (imaginary part)	13.820000
Conductivity (S/m)	1.515666
Variation (%)	-0.500000



Maximum location: X=0.00, Y=-1.00

SAR 10g (W/Kg)	19.693444
SAR 1g (W/Kg)	38.957625

Z Axis Scan

