System Validation Plots
Project name :
KS090701A02

EUT DESCRIPTION

Product: GSM Mobile Phone

Model: ZMAM120

Trade name:Zonda

FCC ID:U46-ZMAM120

Tested: July 2, 2009

Applicant: TeleEpoch Limited

2/F, R2-A North Gate, Shenzhen High-Tech Industria Nanshan District, Shenzhen, Guang Dong, China

Air Temperature: 21 °C Liqued Temperature: 20 °C

Crest Factor: CW:__1_ GSM:__8__ GPRS 10: __4__

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

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

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 6 minutes 41 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

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

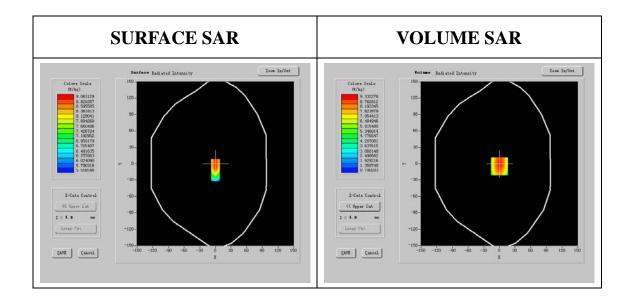
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B. Instrumentations.

PC	HP (Pentium(R) V 3.06GHz, SN:375052-AA1)
Network Emulator	R&S (CMU200, SN:B23-03291)
Voltmeter	Keithley (2000, SN:1015843)
Synthetizer	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)	835.000024
Relative permitivity (real part)	41.417980
Relative permitivity (imaginary	19.591301
part)	0.000156
Conductivity (S/m)	0.900156
Variation (%)	0.679500

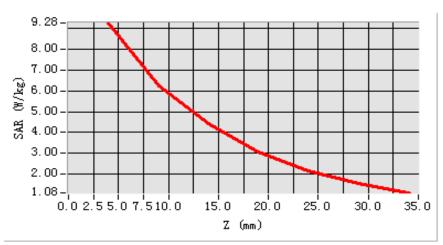


Maximum location: X=0.00, Y=-5.00

SAR 10g (W/Kg)	6.132786
SAR 1g (W/Kg)	9.535164

Z Axis Scan

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



1900 HEAD VALIDATION

I. RESULTS

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

MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 7 minutes 3 seconds

Mobile Phone IMEI number: --

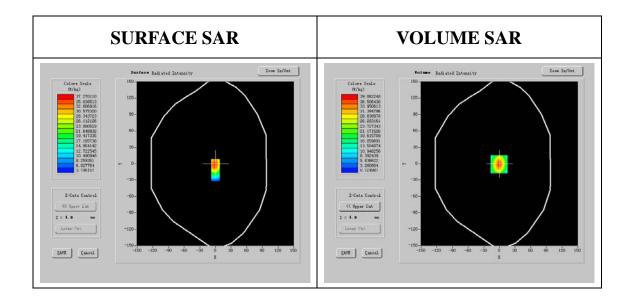
A. Experimental conditions.

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

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B. SAR Measurement Results

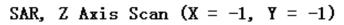
Frequency (MHz)	1880.000000
Relative permitivity (real part)	39.767619
Relative permitivity (imaginary	13.731020
part) Conductivity (S/m)	1.405380
Variation (%)	0.085000

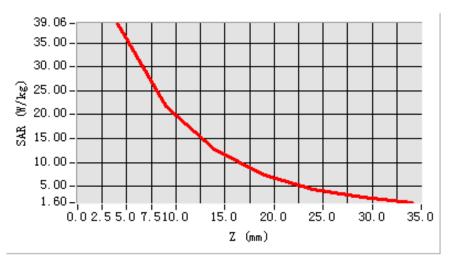


Maximum location: X=-1.00, Y=-1.00

SAR 10g (W/Kg)	19.426230
SAR 1g (W/Kg)	40.198223

Z Axis Scan





850 BODY VALIDATION

I. RESULTS

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

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MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 6 minutes 51 seconds

Mobile Phone IMEI number: --

A. Experimental conditions.

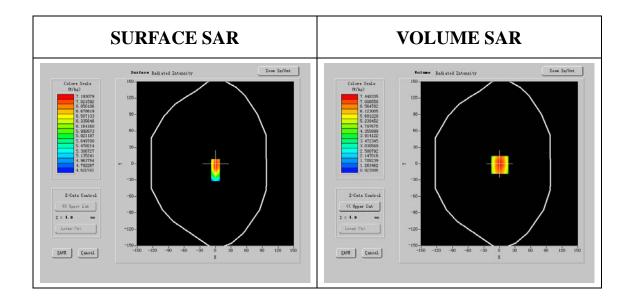
Phantom File	surf_sam_plan.txt, Adaptative 2 max
Phantom	Validation plane
Device Position	Dipole
Band	GSM850
Channels	Middle
Signal	CW

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)	
Synthetizer	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

835.000024
55.501125
22.068529
0.9456149
0.230000

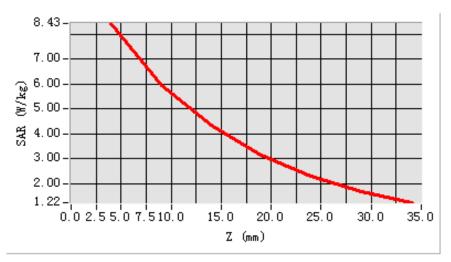


Maximum location: X=1.00, Y=-2.00

SAR 10g (W/Kg)	6.235653
SAR 1g (W/Kg)	9.671380

Z Axis Scan

SAR, Z Axis Scan (X = 1, Y = -2)



1900 BODY VALIDATION

I. RESULTS

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

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MEASUREMENT 1

Type: Validation measurement (Complete)

Date of measurement: 2/7/2009

Measurement duration: 6 minutes 43 seconds

Mobile Phone IMEI number: --

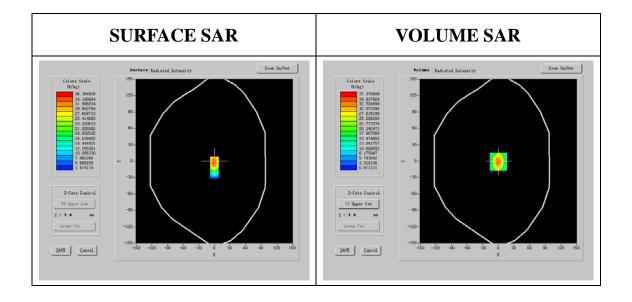
A. Experimental conditions.

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

B. SAR Measurement Results

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Frequency (MHz)	1880.000000
Relative permitivity (real part)	53.111968
Relative permitivity (imaginary	13.671000
part)	
Conductivity (S/m)	1.431120
Variation (%)	-0.500000



Maximum location: X=0.00, Y=-1.00

SAR 10g (W/Kg)	18.692125
SAR 1g (W/Kg)	38.958155

Z Axis Scan

