

Test Laboratory: AGC Lab
PCS 1900 Mid-Body-worn-Back (MS) <SIM 1>
DUT: TINGLE; Type:S107

Date:APR.14,2012

Communication System:GPRS-3 slot; Communication System Band: PCS 1900; Duty Cycle:1:8 ; convF=6.42
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 53.27$;
 $\rho = 1000$ kg/m³ ; Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

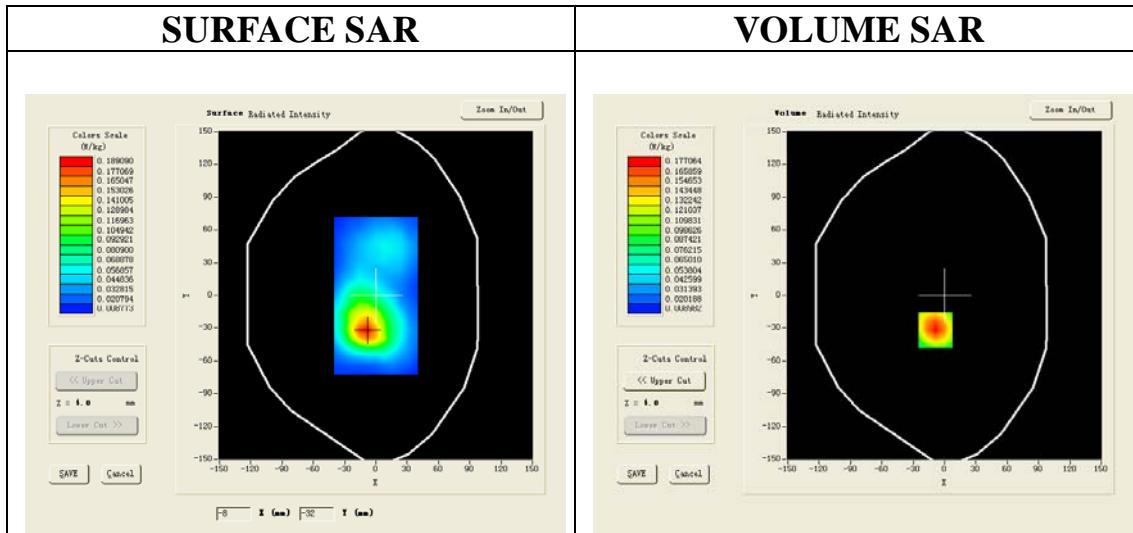
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: SAM1; Type: SAM
 - Measurement SW: OpenSAR V4_02_01

Configuration/PCS 1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm

Configuration/PCS 1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 8)

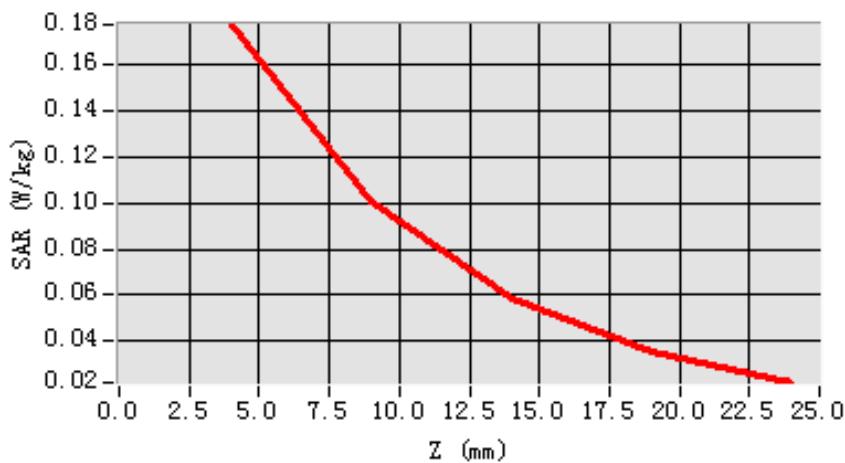


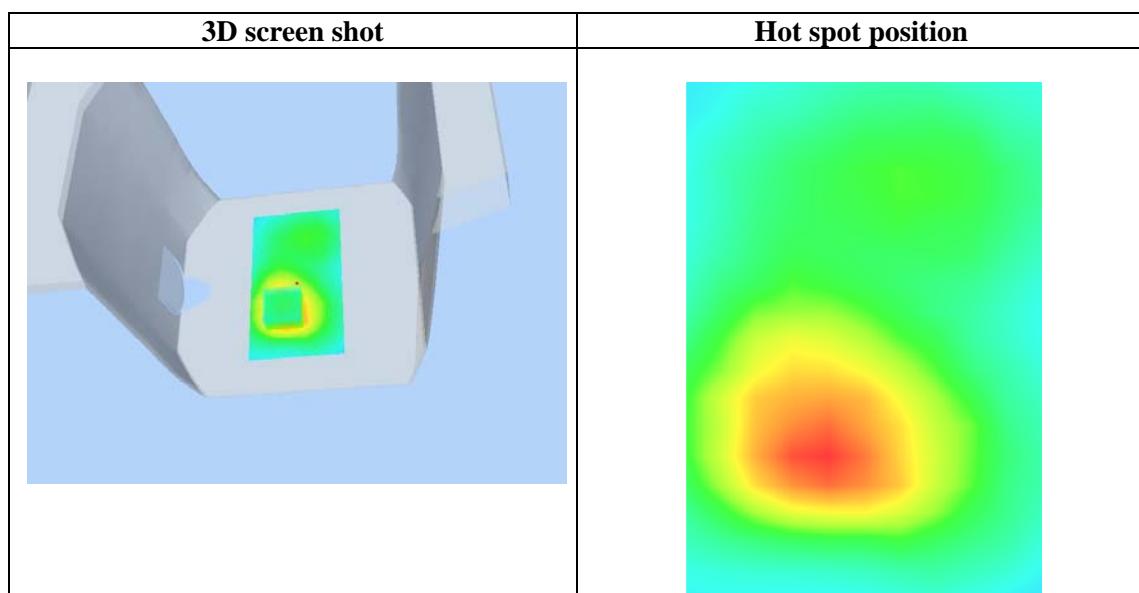
Maximum location: X=-9.00, Y=-32.00

SAR 10g (W/Kg)	0.094959
SAR 1g (W/Kg)	0.167747

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0000	0.1771	0.1005	0.0581	0.0358

SAR, Z Axis Scan (X = -9, Y = -32)





Test Laboratory: AGC Lab
PCS 1900 Mid-Body-worn-Back (MS) with earphone <SIM 1>
DUT: TINGLE; Type:S107

Date:APR.14,2012

Communication System: GPRS-3 Slot; Communication System Band:PCS 1900; Duty Cycle:1:8 ;ConvF=6.42
Frequency: 1880 MHz; Medium parameters used: $f = 1900$ MHz; $\sigma = 1.49$ mho/m; $\epsilon_r = 53.27$;
 $\rho = 1000$ kg/m³; Phantom section: Flat Section
Ambient temperature (°C):21, Liquid temperature (°C):21

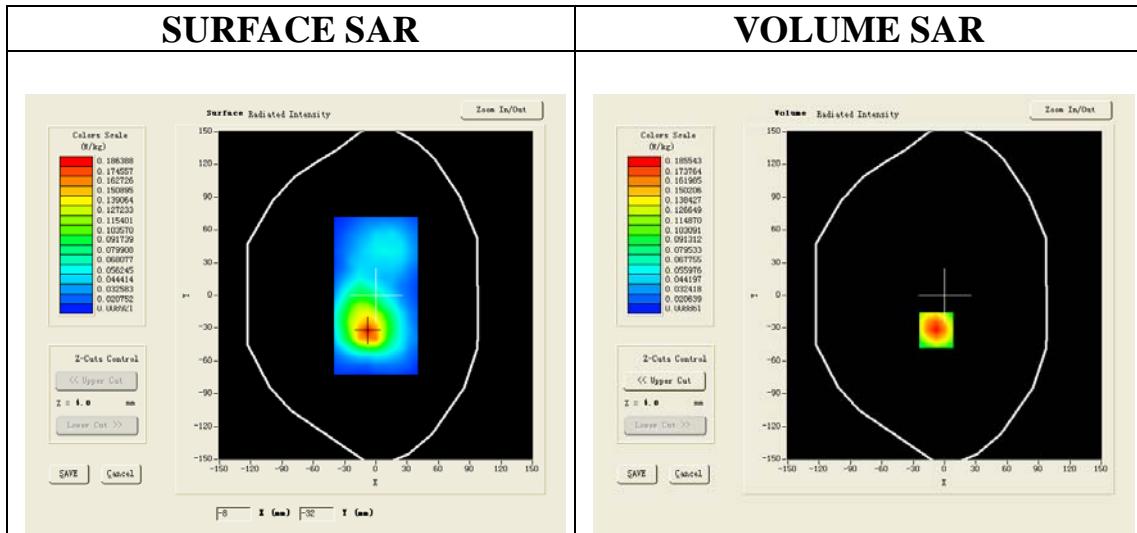
Satimo Configuration:

- Probe:SSE5; Calibrated: 12/09/2011
- Sensor-Surface: 4mm (Mechanical Surface Detection)
 - Phantom: SAM1; Type: SAM
 - Measurement SW: OpenSAR V4_02_01

Configuration/PCS 1900 Mid Body-Back/Area Scan: Measurement grid: dx=20mm, dy=20mm

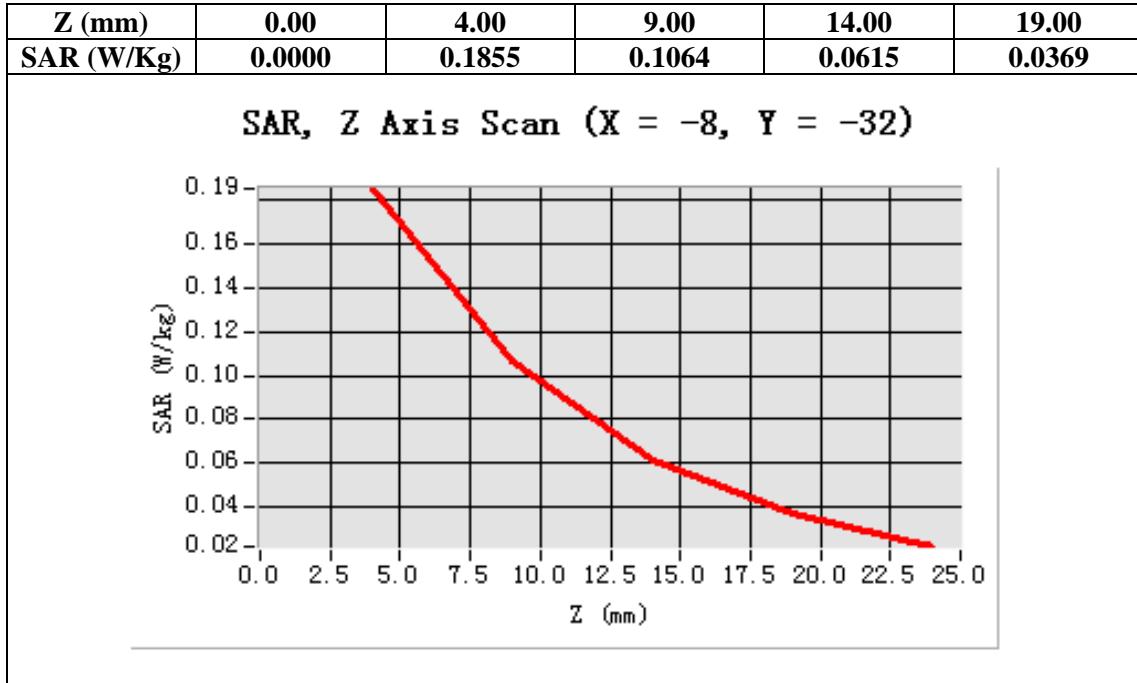
Configuration/PCS 1900 Mid Body-Back/Zoom Scan: Measurement grid: dx=8mm,
dy=8mm, dz=5mm;

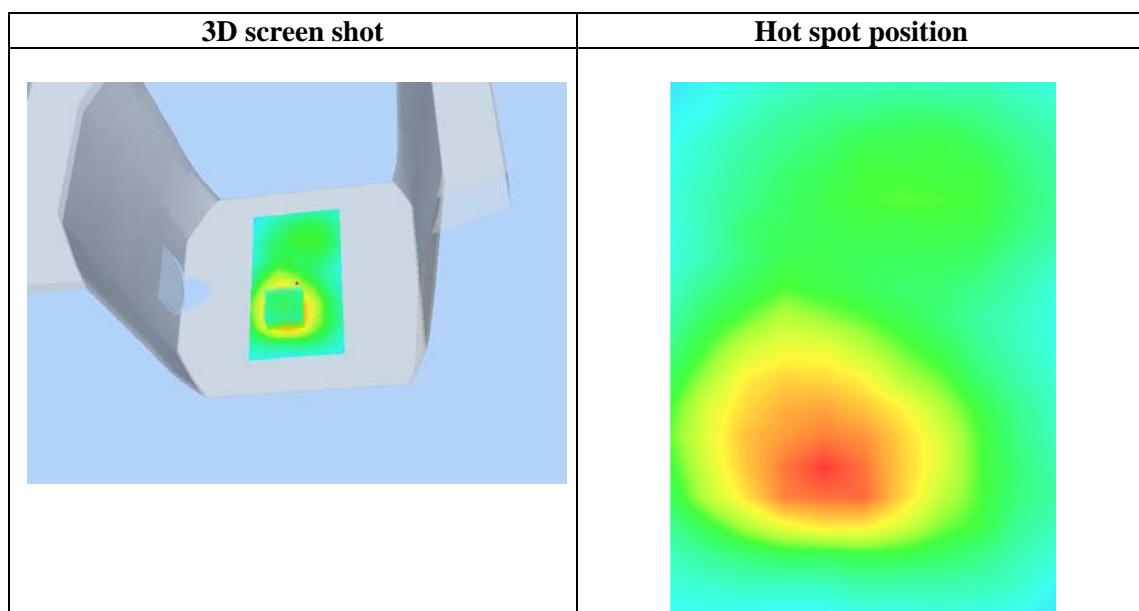
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Very fast
Phantom	Validation plane
Device Position	Body Back
Band	GSM1900
Channels	Middle
Signal	TDMA (Crest factor: 8.0)



Maximum location: X=-8.00, Y=-32.00

SAR 10g (W/Kg)	0.098548
SAR 1g (W/Kg)	0.175122





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Appendix C. TEST SETUP PHOTOGRAPHS &EUT PHOTOGRAPS

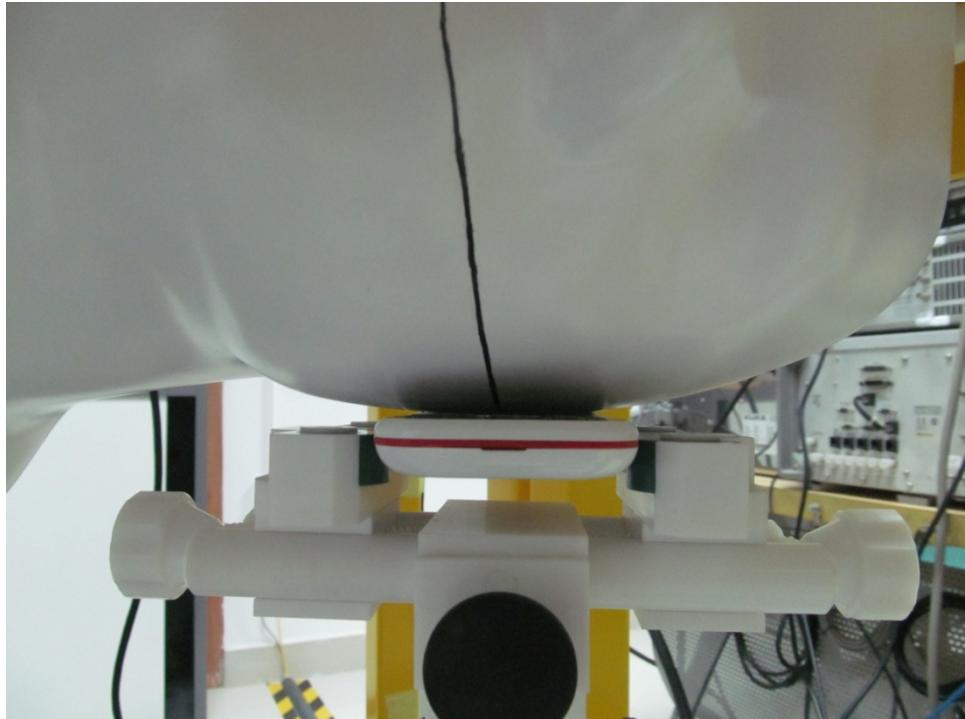
Test Setup Photographs

DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

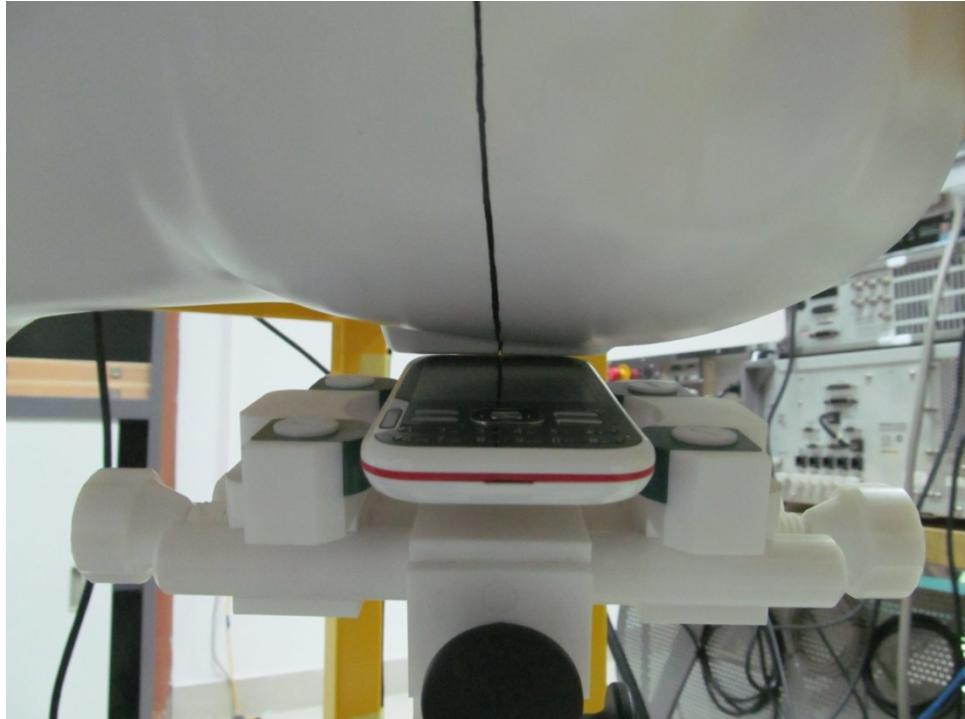
Note : The position used in the measurement were according to IEEE 1528-2003



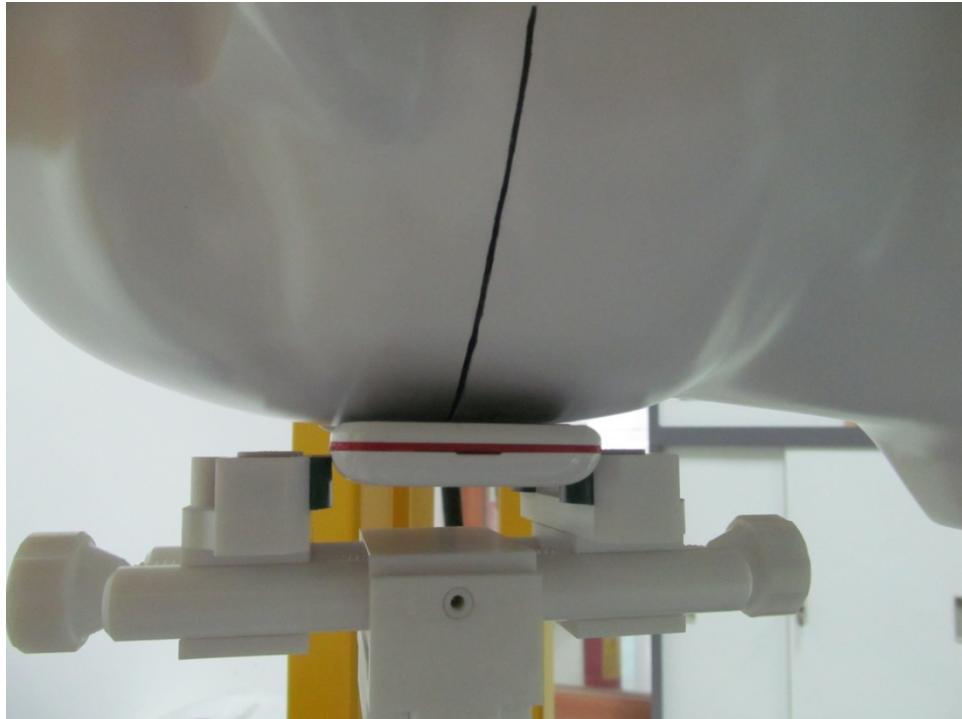
LEFT-CHECK TOUCH



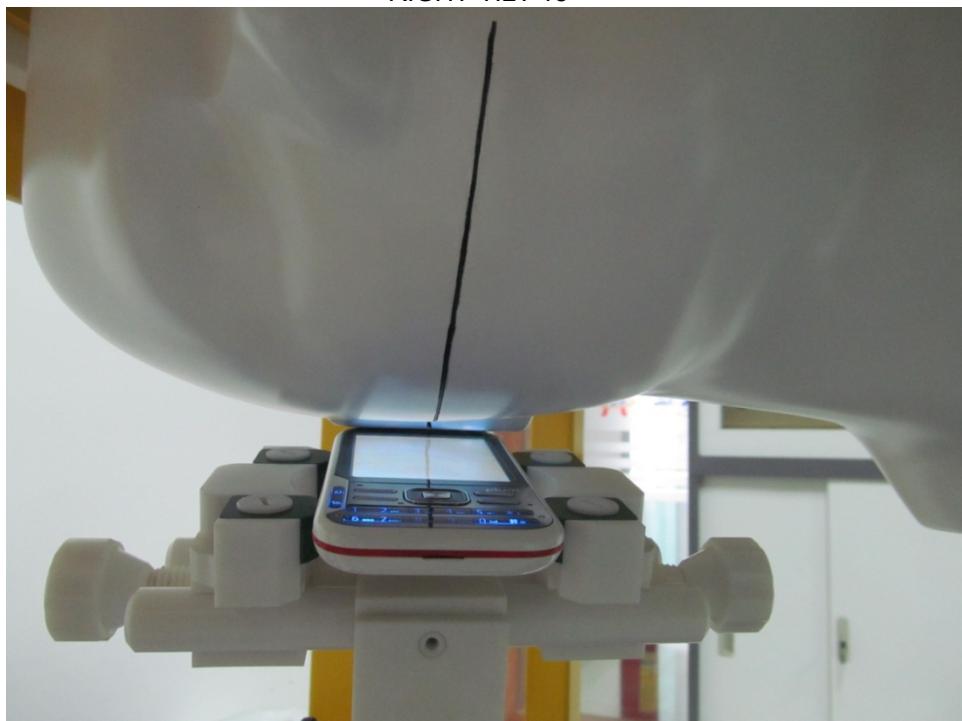
LEFT-TILT 15°



RIGHT-CHECK TOUCH



RIGHT-TILT 15°



Body Back15mm



Front Back15mm



Body back with Headset



EUT PHOTOGRAPS
TOP VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



FRONT VIEW OF SAMPLE



BACK VEW OF SAMPLE



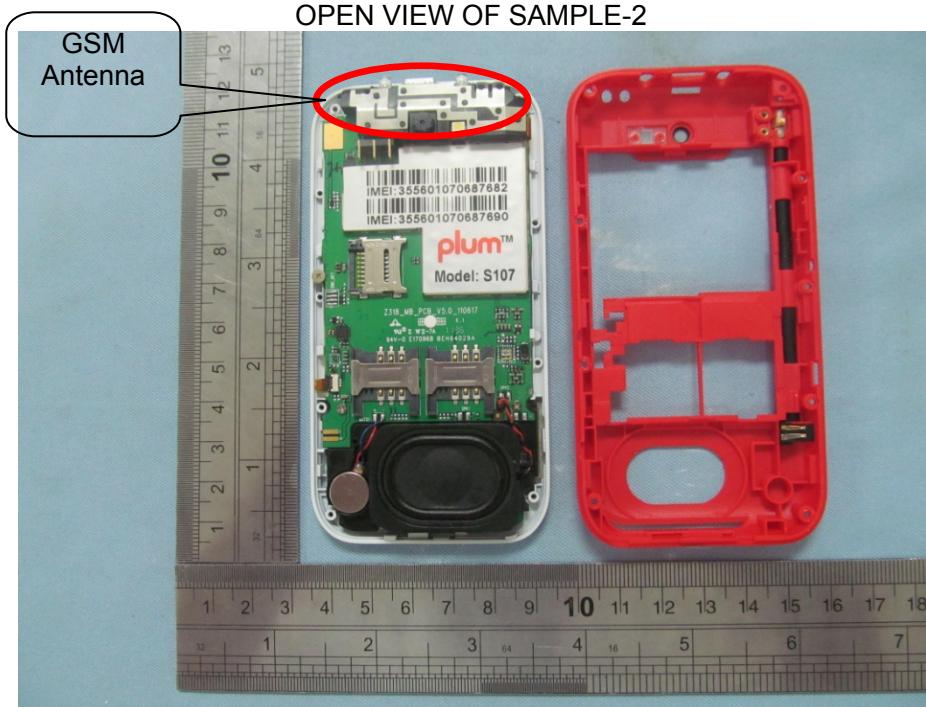
ALL VIEW OF SAMPLE



OPEN VIEW OF SAMPLE-1



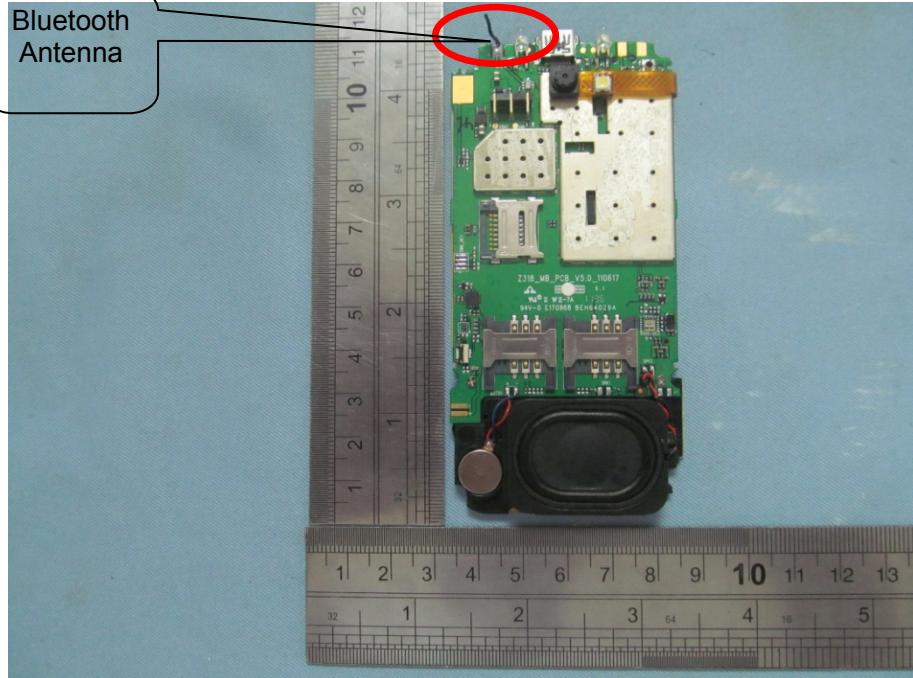
OPEN VIEW OF SAMPLE-2



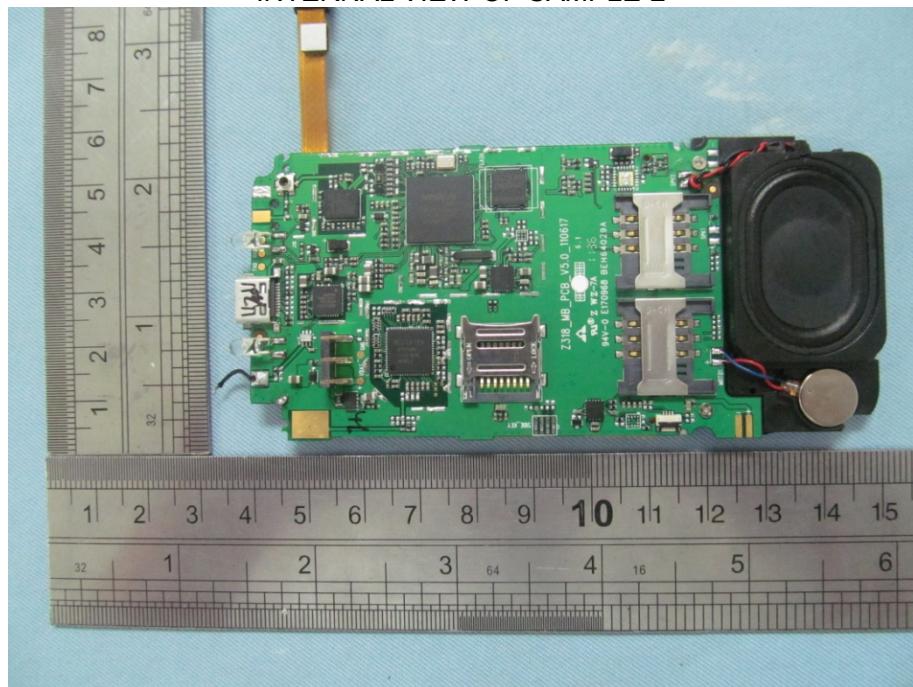
OPEN VIEW OF SAMPLE-3



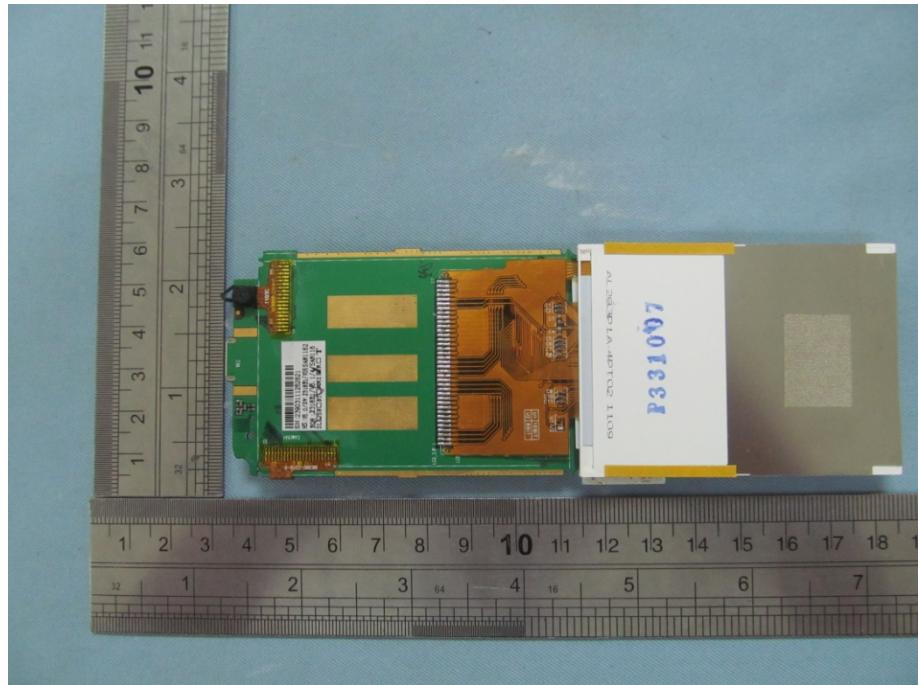
INTERNAL VIEW OF SAMPLE-1



INTERNAL VIEW OF SAMPLE-2



INTERNAL VIEW OF SAMPLE-3



Appendix D. Probe Calibration Data



COMOSAR E-Field Probe Calibration Report

Ref : ACR.343.2.11.SATU.A

ATTESTATION OF GLOBAL COMPLIANCE CO. LTD.

1&2F, NO.2 BUILDING, HUAFENG NO.1 INDUSTRIAL
PARK, GUSHU COMMUNITY XIXIANG STREET
BAOAN DISTRICT, SHENZHEN, P.R. CHINA

SATIMO COMOSAR DOSIMETRIC E-FIELD PROBE
SERIAL NO.: SN 35/11 EP132

Calibrated at SATIMO US
2105 Barrett Park Dr. - Kennesaw, GA 30144



12/09/11

Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed in SATIMO USA using the CALISAR / CALIBAIR test bench, for use with a SATIMO COMOSAR system only. All calibration results are traceable to national metrology institutions.



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref ACR.343.2.11.SATU.A

	Name	Function	Date	Signature
Prepared by :	Jérôme LUC	Product Manager	12/9/2011	
Checked by :	Jérôme LUC	Product Manager	12/9/2011	
Approved by :	Kim RUTKOWSKI	Quality Manager	12/9/2011	Kim RUTKOWSKI

Distribution :	Customer Name
	ATTESTATION OF GLOBAL COMPLIANCE CO. LTD.

Issue	Date	Modifications
A	12/9/2011	Initial release

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