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DIPOLE 835 MHZ CALIBRATION REPORT

Prepared By: LUC Jérôme, SATIMO

Project Description: SAR TEST BENCH

Prepared For (End User): Shenzhen Morlab Communication Technology

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DIPOLE 835 MHz CALIBRATION REPORT

DATE: 19/02/2009

REFERENCE: SN 36/08 DIPC99

OBJECT: COMOSAR IEEE REFERENCE DIPOLE

MANUFACTURER: SATIMO

SERIAL NUMBER: SN 36/08 DIPC99

CUSTOMER: Shenzhen Morlab Communication Technology

24.261

CONTRACT: PF2130108b_SAR_Morlab

DATE OF CALIBRATION: 23/09/2011

WARRANTY:

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<u>Date</u>

SAR TEAM MANAGER

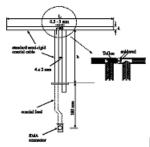
SATIMO Bretagne Technopôle Brest Iroise Zone du Vernis 225 rue Pierre Rivoalon 29200 BREST



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PRODUCT DESCRIPTION





Dimension: L=161 mm/ h=89.8mm / d=3.6 mm

CALIBRATION TEST EQUIPMENT

TYPE	IDENTIFICATION	DATE OF CALIBRATION
Vector Network Analyzer	HP8753D (SN: 5410A08882)	10-05-2011

MEASUREMENT PROCEDURE

We placed the dipole under the flat part of SAM phantom fill with 835 MHz head liquid.

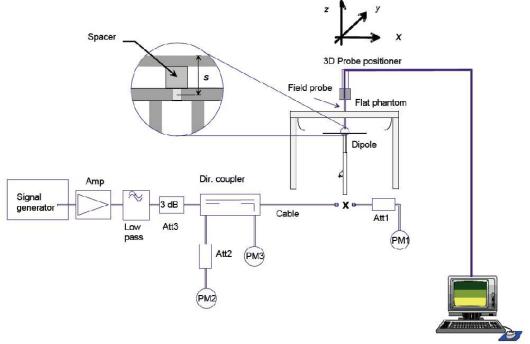


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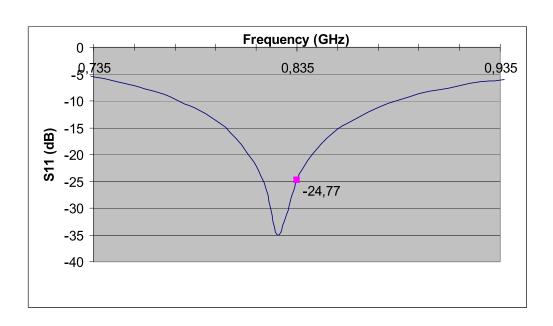
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Calibration was performed according to IEEE Std P1528-2003 and OET bulletin 65 Supplement C (Ed. 01-01)

VSWR at 835 MHz: -24.77 dB.





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SAR MEASUREMENT EQUIPEMENT

Voltmeter	Keithley (2000, SN:1000572)	Date of calibration: 01-07-2011
Signal generator	Rohde&Schwarz (SML_03, SN:101868)	Date of calibration: 15-11-2010
Power amplifier	Nuclétudes (ALB216, SN:10800)	Date of calibration: 24-10-2010
Power meter	Rohde&Schwarz (NRVD, SN:101066)	Date of calibration: 04-07-2011
Probe	SATIMO Bretagne (SN:EP37)	Date of calibration: 19-06-2011
Probe	CF (30.41,29.18,32.33)	

SAR MEASUREMENT CONDITION

Software	OpenSAR V3	
Phantom	SATIMO Bretagne (SN: SN_20_07_SAM42)	
Liquid	SATIMO Bretagne (Last Calibration: 23 09 11)	
Liquid	Head Liquid Values: eps': 41,40 sigma: 0,884	
Distance between the		
center of the dipole and	15 mm	
the liquid (set with a		
spacer)		
Area scan resolution	dx=8mm/dy=8mm	
Zoom scan resolution	dx=8mm/dy=8m/dz=5mm	
Frequency	835 MHz	
Input power	30 dBm	
Expanded uncertainty (K=1)	8.09%	

SAR MEASUREMENT RESULT

	10g	1g
SAR measured Liquid : HL Input power : 1W	6,257 W/Kg + 0,92 %	9,714 W/Kg + 2,25 %



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SAR MEASUREMENT PLOTS

