



Bâtiment le Ponant
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CALIBRATION REPORT

VALIDATION DIPOLE

835 MHz

DATE : 20/09/2007

REFERENCE : SN 01/06 DIP C 32

OBJECT : COMOSAR IEEE REF DIPOLE

MANUFACTURER : ANTENNESSA

SERIAL NUMBER : SN 01/06 DIP C 32

CUSTOMER : CCS

DATE OF CALIBRATION : 18/09/2007

WARRANTY :

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SAR TEAM MANAGER

PRESIDENT



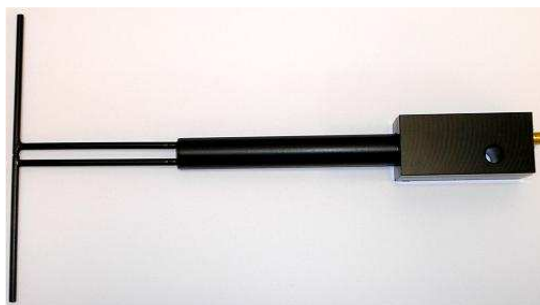
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PRODUCT DESCRIPTION

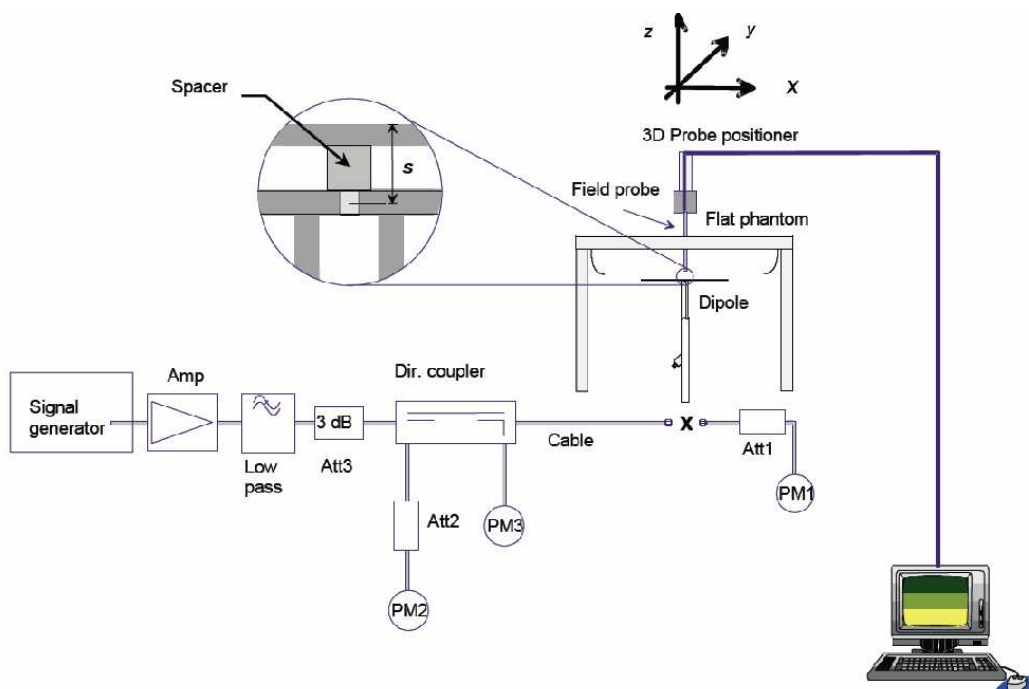


CALIBRATION TEST EQUIPMENT

TYPE	IDENTIFICATION
Vector Network Analyzer	HP8753D

MEASUREMENT PROCEDURE

We placed the dipole as define in IEEE1528-2005 SAR standard :





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RETURN LOSS MEASUREMENT RESULTS

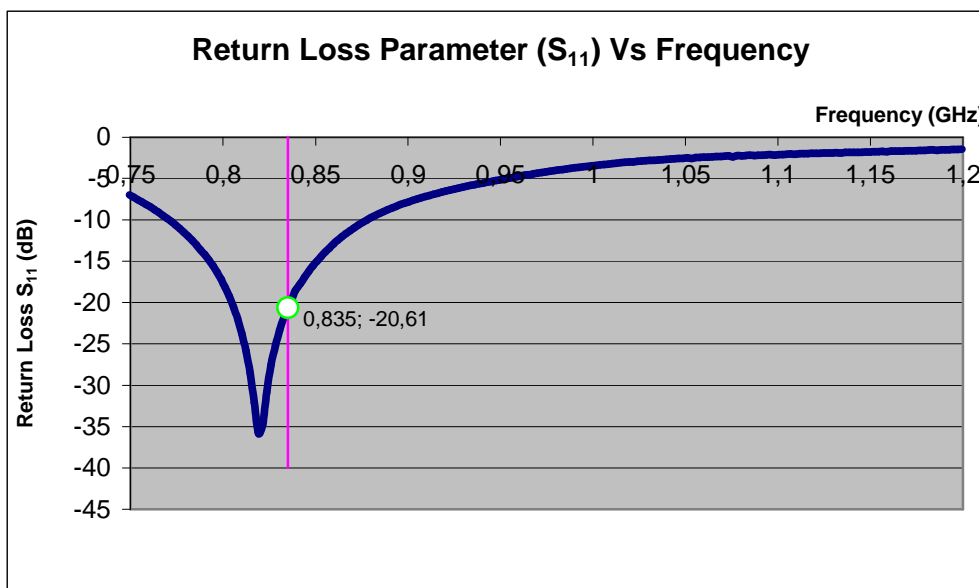


Figure 1 : Return Loss in Head Liquid

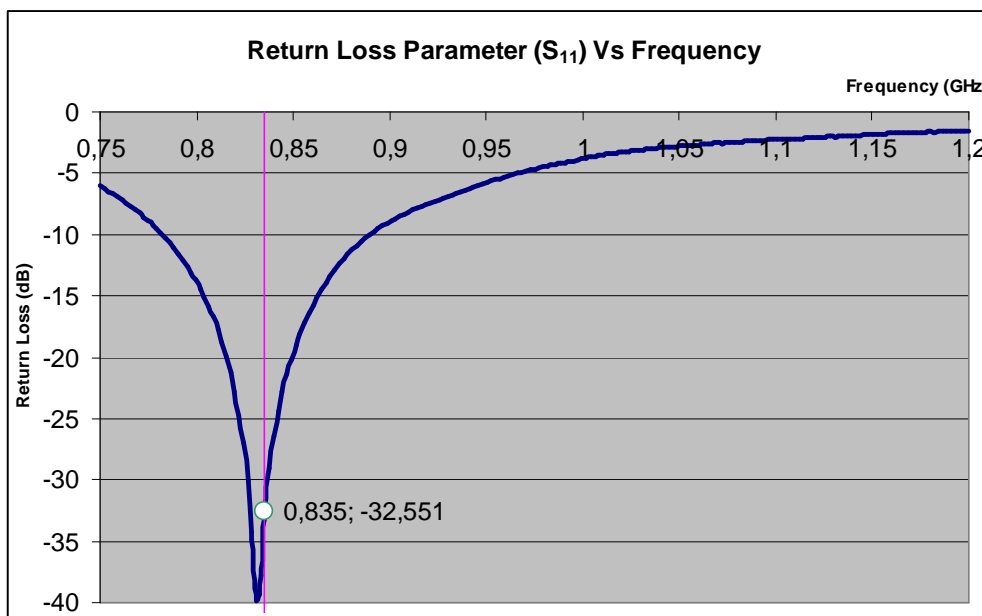


Figure 2 : Return Loss in Body Liquid

VSWR at 835 MHz in HL : **1.206:1**

VSWR at 835 MHz in BL : **1.048:1**



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SAR MEASUREMENT EQUIPEMENT

PC	Dell (Pentium IV 2.4GHz, SN:X10-23533)
Voltmeter	Keithley (2000, SN:1000572)
Synthesizer	Rohde&Schwarz (SML_03, SN:101868)
Amplifier	Nuclétudes (ALB216, SN:10800)
Power Meter	Rohde&Schwarz (NRVD, SN:101066)
Probe	Antennessa (SN:EP37)
Phantom	Antennessa (SN: SN_20_07_SAM42)
Liquid	Antennessa (Last Calibration: 17 09 07) Head Liquid Values: eps' : 41,76 sigma : 0,877 Body Liquid Values: eps' : 55,17 sigma : 1,009
Software	OpenSAR V3

SAR MEASUREMENT RESULT

	10g	1g
SAR measured Liquid : HL Input power : 1W	6,364 W/Kg + 2,65%	9,610 W/Kg + 1,16%
SAR measured Liquid : BL Input power : 1W	6,422 W/Kg + 3,58%	9,590 W/Kg + 0,95%