



SAR REFERENCE DIPOLE CALIBRATION REPORT

Ref: ACR. 329.17.21.BES.A.

7.3 BODY LIQUID MEASUREMENT

Frequency MHz	Relative permittivity (\mathbf{s}_{r}')		Conductivity (σ) S/m	
	required	measured	required	measured
5200	49.0 ±10 %	45.50	5.30 ±10 %	5.63
5300	48.9 ±10 %		5.42 ±10 %	
5400	48.7 ±10 %	44.78	5.53 ±10 %	5.95
5500	48.6 ±10 %		5.65 ±10 %	
5600	48.5 ±10 %	44.85	5.77 ±10 %	6.26
5800	48.2 ±10 %	44.45	6.00 ±10 %	6.58

7.4 SAR MEASUREMENT RESULT WITH BODY LIQUID

Software	OPENSAR V5			
Phantom	SN 13/09 SAM68			
Probe	SN 41/18 EPGO333			
Liquid	Body Liquid Values 5200 MHz: eps':45.50 sigma: 5.63 Body Liquid Values 5400 MHz: eps':44.78 sigma: 5.95 Body Liquid Values 5600 MHz: eps':44.85 sigma: 6.26 Body Liquid Values 5800 MHz: eps':44.45 sigma: 6.58			
Distance between dipole and liquid	10 mm			
Area scan resolution	dx=8mm/dy=8mm			
Zoon Scan Resolution	dx=4mm/dy=4m/dz=2mm			
Frequency	5200 MHz 5400 MHz 5600 MHz 5800 MHz			
Input power	20 dBm			
Liquid Temperature	20 +/- 1 °C			
Lab Temperature	20 +/- 1 °C			
Lab Humidity	30-70 %			

Frequency (MHz)	1 g SAR (W/kg)	10 g SAR (W/kg)	
0. 3.07 48 3.00	measured	measured	
5200	73.02 (7.30)	20.58 (2.06)	
5400	77.86 (7.79)	21.85 (2.19)	
5600	79.90 (7.99)	22.73 (2.27)	
5800	71.90 (7.19)	20.50 (2.05)	

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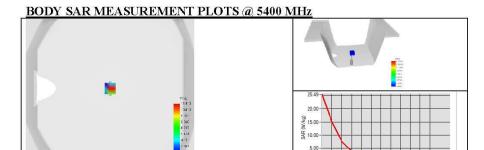


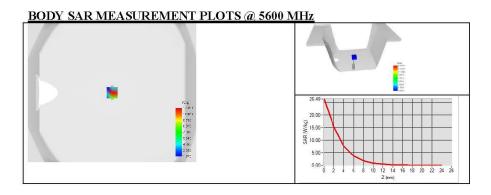


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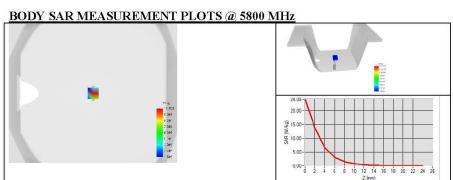
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8 LIST OF EQUIPMENT

Equipment Summary Sheet						
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date		
SAM Phantom	MVG	SN 13/09 SAM68	Validated. No cal required.	Validated. No cal required.		
COMOSAR Test Bench	Version 3	NA	Validated. No cal required.	Validated. No cal required.		
Network Analyzer	Rohde & Schwarz ZVM	100203	08/2021	08/2024		
Network Analyzer	Agilent 8753ES	MY40003210	10/2019	10/2022		
Network Analyzer – Calibration kit	Rohde & Schwarz ZV-Z235	101223	05/2019	05/2022		
Network Analyzer – Calibration kit	HP 85033D	3423A08186	06/2021	06/2027		
Calipers	Mitutoyo	SN 0009732	10/2019	10/2022		
Reference Probe	MVG	SN 41/18 EPGO333	10/2021	10/2022		
Multimeter	Keithley 2000	1160271	02/2020	02/2023		
Signal Generator	Rohde & Schwarz SMB	106589	04/2019	04/2022		
Amplifier	MVG	MODU-023-C-0002	Characterized prior to test. No cal required.			
Power Meter	NI-USB 5680	170100013	06/2021	06/2024		
Power Meter	Rohde & Schwarz NRVD	832839-056	11/2019	11/2022		
Directional Coupler	Krytar 158020	131467	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.		
Temperature / Humidity Sensor	Testo 184 H1	44225320	06/2021	06/2024		

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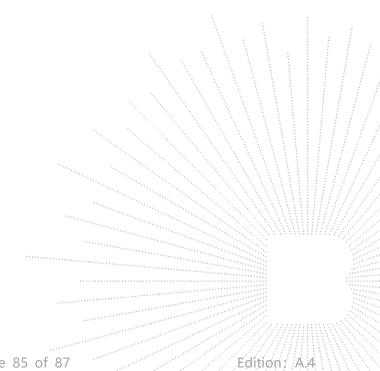
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17. Photographs Of The Liquid



Photograph of the depth in the Body Phantom (600-10000MHz, 16.4cm depth)



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18. EUT Photographs

Please refer to separated files for Test Setup Photos of SAR.

19. EUT Test Setup Photographs

Please refer to separated files for Test Setup Photos of SAR.



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STATEMENT

1. The equipment lists are traceable to the national reference standards.

2.The test report can not be partially copied unless prior written approval is issued from our . .

lab.

3. The test report is invalid without stamp of laboratory.

4. The test report is invalid without signature of person(s) testing and authorizing.

5. The test process and test result is only related to the Unit Under Test.

6.The quality system of our laboratory is in accordance with ISO/IEC17025.

7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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**** END ****

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