



SAR Reference Dipole Calibration Report

Ref: ACR.118.24.22.BES.A

ATTESTATION OF GLOBAL COMPLIANCE CO. LTD.

1-2/F, BUILDING 19, JUNFENG INDUSTRIAL PARK, CHONGQING ROAD, HEPING COMMUNITY, FUHAI STREETBAO 'AN DISTRICT, SHENZHEN, GUANGDONG, CHINAMVG COMOSAR REFERENCE DIPOLE

> FREQUENCY: 5200-5800 MHZ SERIAL NO.: SN 17/22 DIP5G000-671

Calibrated at MVG

Z.I. de la pointe du diable

Technopôle Brest Iroise – 295 avenue Alexis de Rochon

29280 PLOUZANE - FRANCE

Calibration date: 04/28/2022



Accreditations #2-6789 and #2-6814 Scope available on www.cofrac.fr

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Summary:

This document presents the method and results from an accredited SAR reference dipole calibration performed at MVG, using the COMOSAR test bench. The test results covered by accreditation are traceable to the International System of Units (SI).

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Issue	Name	Date	Modifications
A	Jérôme Luc	4/28/2022	Initial release

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INTRODUCTION

This document contains a summary of the requirements set forth by the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards for reference dipoles used for SAR measurement system validations and the measurements that were performed to verify that the product complies with the fore mentioned standards.

DEVICE UNDER TEST

	Device Under Test
Device Type	COMOSAR 5200-5800 MHz REFERENCE DIPOLE
Manufacturer	MVG
Model	SID5000
Serial Number	SN 17/22 DIP5G000-671
Product Condition (new / used)	New

3 PRODUCT DESCRIPTION

3.1 **GENERAL INFORMATION**

MVG's COMOSAR Validation Dipoles are built in accordance to the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards. The product is designed for use with the COMOSAR test bench only.



Figure 1 – MVG COMOSAR Validation Dipole

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4 MEASUREMENT METHOD

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards provide requirements for reference dipoles used for system validation measurements. The following measurements were performed to verify that the product complies with the fore mentioned standards.

RETURN LOSS REQUIREMENTS

The dipole used for SAR system validation measurements and checks must have a return loss of -20 dB or better. The return loss measurement shall be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. A direct method is used with a network analyser and its calibration kit, both with a valid ISO17025 calibration.

4.2 <u>MECHANICAL REQUIREMENTS</u>

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards specify the mechanical components and dimensions of the validation dipoles, with the dimension's frequency and phantom shell thickness dependent. The COMOSAR test bench employs a 2 mm phantom shell thickness therefore the dipoles sold for use with the COMOSAR test bench comply with the requirements set forth for a 2 mm phantom shell thickness. A direct method is used with a ISO17025 calibrated caliper.

MEASUREMENT UNCERTAINTY

All uncertainties listed below represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2, traceable to the Internationally Accepted Guides to Measurement Uncertainty.

5.1 RETURN LOSS

The following uncertainties apply to the return loss measurement:

Frequency band	Expanded Uncertainty on Return Loss		
400-6000MHz	0.08 LIN		

5.2 <u>DIMENSION MEASUREMENT</u>

The following uncertainties apply to the dimension measurements:

Length (mm)	Expanded Uncertainty on Length		
0 - 300	0.20 mm		

5.3 VALIDATION MEASUREMENT

The guidelines outlined in the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards were followed to generate the measurement uncertainty for validation measurements.

Scan Volume	Expanded Uncertainty		
1 g	19 % (SAR)		
10 g	19 % (SAR)		

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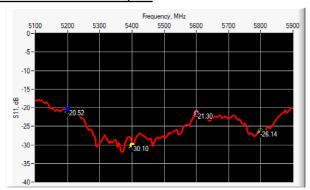
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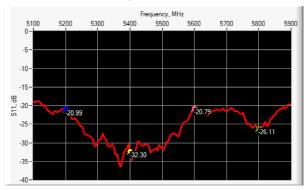
CALIBRATION MEASUREMENT RESULTS

RETURN LOSS IN HEAD LIQUID



Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
5200	-20.52	-20	54.06 Ω + 8.44 jΩ
5400	-30.10	-20	$47.05 \Omega + 1.02 j\Omega$
5600	-21.30	-20	$49.63 \Omega + 8.57 j\Omega$
5800	-26.14	-20	47.44 Ω - 4.21 jΩ

6.2 <u>RETURN LOSS IN BODY LIQUID</u>



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Frequency (MHz)	Return Loss (dB)	Requirement (dB)	Impedance
5200	-20.99	-20	$54.17 \Omega + 7.83 j\Omega$
5400	-32.30	-20	$48.30 \Omega + 1.73 j\Omega$
5600	-20.79	-20	48.10 Ω + 8.89 jΩ
5800	-26.11	-20	48.36 Ω - 4.67 jΩ

6.3 MECHANICAL DIMENSIONS

Frequency MHz	L mm		hmm		d mm	
	required	m easured	required	m easured	required	m easured
5000 to 6000	20.6 ±1 %.	20.77	40.3 ±1 %.	40.21	3.6 ±1 %.	3.61

7 VALIDATION MEASUREMENT

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards state that the system validation measurements must be performed using a reference dipole meeting the fore mentioned return loss and mechanical dimension requirements. The validation measurement must be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. Per the standards, the dipole shall be positioned below the bottom of the phantom, with the dipole length centered and parallel to the longest dimension of the flat phantom, with the top surface of the dipole at the described distance from the bottom surface of the phantom.

7.1 HEAD LIQUID MEASUREMENT

Frequency MHz	Relative per	mittivity (ε _r ′)	Conductivity (σ) S/m		
	required	m easured	required	measured	
5000	36.2 ± 10 %		4.45 ±1 0 %		
5100	36.1 ± 10 %		4.56 ±1 0 %		
5200	36.0 ±10 %	34.44	4.66 ± 10 %	4.64	
5300	35.9 ±10 %		4.76 ±10 %		
5400	35.8 ±10 %	33.63	4.86 ±10 %	4.88	
5500	35.6 ±10 %		4.97 ± 10 %		
5600	35.5 ±10 %	32.80	5.07 ±1 0 %	5.12	
5700	35.4 ± 10 %		5.17 ± 10 %		
5800	35.3 ±10 %	32.33	5.27 ± 10 %	5.31	
5900	35.2 ±10 %		5.38 ± 10 %		
6000	35.1 ±1 0 %		5.48 ± 10 %		

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7.2 SAR MEASUREMENT RESULT WITH HEAD LIQUID

At those frequencies, the target SAR value can not be generic. Hereunder is the target SAR value defined by MVG, within the uncertainty for the system validation. All SAR values are normalized to 1 W net power. In bracket, the measured SAR is given with the used input power.

Software	OPENSAR V5
Phantom	SN 13/09 SAM68
Probe	SN 41/18 EPGO333
Liquid	Head Liquid Values 5200 MHz: eps' :34.44 sigma : 4.64 Head Liquid Values 5400 MHz: eps' :33.63 sigma : 4.88 Head Liquid Values 5600 MHz: eps' :32.80 sigma : 5.12 Head Liquid Values 5800 MHz: eps' :32.33 sigma : 5.31
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)	
	required	measured	required	measured
5200	76.50	73.43 (7.34)	21.60	21.83 (2.18)
5400	-	78.43 (7.84)	-	23.90 (2.39)
5600	-	78.20 (7.82)	-	24.12 (2.41)
5800	78.00	75.69 (7.57)	21.90	22.44 (2.24)

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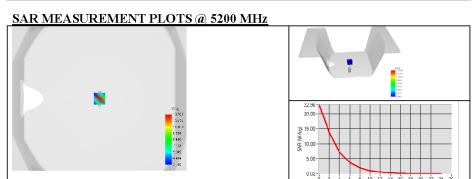
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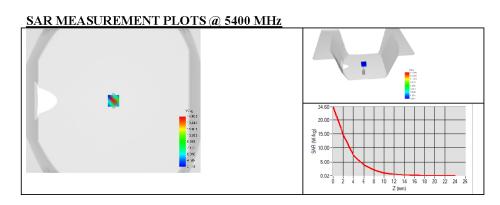
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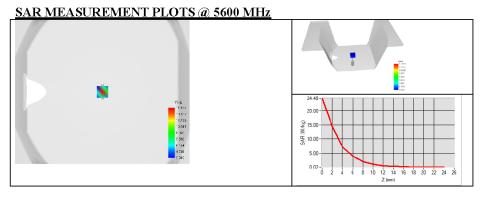












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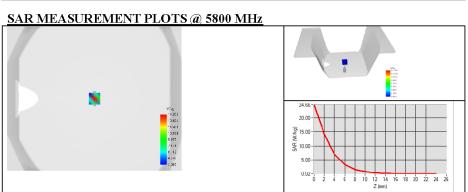
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7.3 BODY LIQUID MEASUREMENT

Frequency MHz	Relative permittivity ($\mathbf{\epsilon}_{\mathbf{r}}'$)		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)
	measured	measured
5200	72.30 (7.23)	22.09 (2.21)
5400	75.13 (7.51)	22.91 (2.29)
5600	74.81 (7.48)	23.01 (2.30)
5800	71.92 (7.19)	22.41 (2.24)

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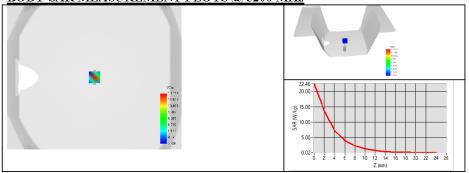
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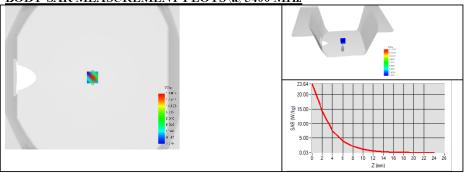




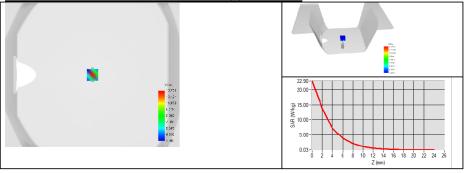
BODY SAR MEASUREMENT PLOTS @ 5200 MHz



BODY SAR MEASUREMENT PLOTS @ 5400 MHz



BODY SAR MEASUREMENT PLOTS @ 5600 MHz



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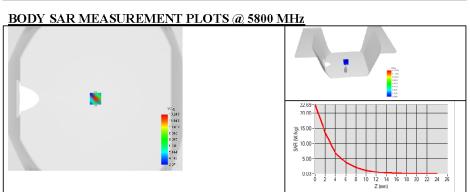
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8 LIST OF EQUIPMENT

Equipment Summary Sheet				
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date
SAM Phantom	мvg	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	мvg	SN 41/18 EPGO333	10/2021	10/2022
Multimeter	Keithley 2000	1160271	02/2020	02/2023
Signal Generator	Rohde & Schwarz SMB	106589	03/2022	03/2025
Amplifier	MVG	MODU-023-C-0002	Characterized prior to test. No cal required.	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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