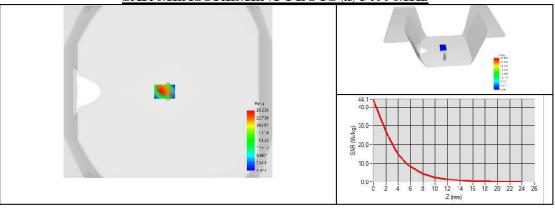
Report No.: S24031407605001



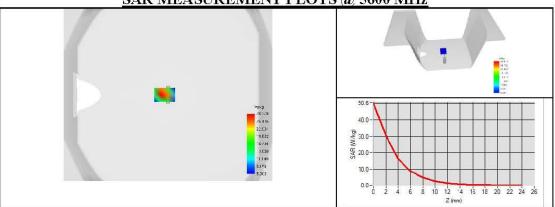
#### SAR REFERENCE WAVEGUIDE CALIBRATION REPORT

Ref: ACR.53.31.24.BES.A

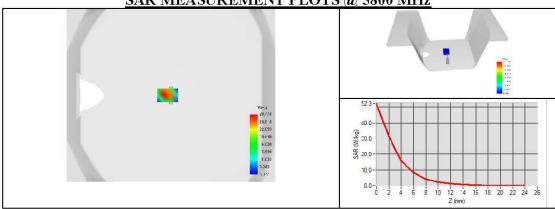




# SAR MEASUREMENT PLOTS @ 5600 MHz

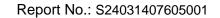


# SAR MEASUREMENT PLOTS @ 5800 MHz



Page: 8/9

Certificate #4298.01 Page 228 of 230





#### SAR REFERENCE WAVEGUIDE CALIBRATION REPORT

Ref: ACR.53.31.24.BES.A

# 7 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 – Calibration kit	Rohde & Schwarz ZV-Z235	101223	07/2022 07/2025		
Calipers	Mitutoyo	SN 0009732	11/2022 11/2025		
Reference Probe	MVG	3623-EPGO-431	11/2023 11/2024		
Multimeter	Keithley 2000	4013982	02/2023 02/2026		
Signal Generator	Rohde & Schwarz SMB	106589	03/2022 03/2025		
Amplifier	MVG	MODU-023-C-0002	Characterized prior to Characterized prior test. No cal required.		
Power Meter	NI-USB 5680	170100013	06/2021 06/2024		
Power Meter	Keysight U2000A	SN: MY62340002	10/2022 10/2025		
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		

Report No.: S24031407605001





## <Justification of the extended calibration>

If dipoles are verified in return loss (<-20dB, within 20% of prior calibration for below 3GHz, and <-8dB, within 20% of prior calibration for 5GHz to 6GHz), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

#### <Head 835MHz>

S11 parameter (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-42.84	-	50.50	-	Feb. 21, 2024

The return loss is <-20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

### <Head 1800MHz>

S11 parameter (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-24.53	-	44.80	-	Feb. 21, 2024

The return loss is <-20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

## <Head 1900MHz>

S11 parameter (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-23.28	-	46.20	-	Feb. 21, 2024

The return loss is <-20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

#### <Head 2450MHz>

S11 parameter (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-29.27	-	53.60	-	Feb. 21, 2024

The return loss is <-20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

### <Head 2600MHz>

S11 parameter (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-25.57	-	54.50	-	Feb. 21, 2024

The return loss is <-20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

Certificate #4298.01 Page 230 of 230

Report No.: S24031407605001

## <Head 5200MHz>

S11 parameter (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-9.64	-	25.80	-	Feb. 21, 2024

The return loss is <-8dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

# <Head 5800MHz>

S11 parameter (dB)	Delta (%)	Impedance	Delta(ohm)	Date of Measurement
-14.91	-	38.53	-	Feb. 21, 2024

The return loss is <-8dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

	ND
EI	ND