

RESEARCH DATA

Electromagnetic compatibility: Measuring Radiated Emissions

Petitioner's Reference: Sheilem

Represented by: Fernando Muñoz

Equipment: EMF shield device

EUT	PRODUCT	S/N	FW Version	ID Applus
#1	EMF Shield device	--	n/a	37658-00001

Initial Date: 23/10/2025

Final Date: 23/10/2025

Date	23/10/2025
Temperature [°C]	21.8
Relative humidity [%]	55.9
Atm. Pressure [hPa]	993.6

Exercise

Power density measurements are performed on a mobile phone consuming data using a H-field probe when is inside and outside of the EMF shield device.

Attenuation is calculated based on the following formula:

$$Attenuation (\%) = \frac{S_{outside} - S_{inside}}{S_{outside}} \times 100$$

Date of issue: Bellaterra, February 3, 2026

SUMMARY SEQUENCES

TEST EXECUTION INFORMATION								
SEQ.	EUT	AUX	DESCRIPTION	Vnom/ Hz	I/O	DATE	TECHNICIAN	RESULT
#1	#1		H-Field Probe measurements	n/a	n/a	23/10/2025	Pau Redondo	--

CALCULATIONS PERFORMED
$Attenuation (\%) = \frac{S_{outside} - S_{inside}}{S_{outside}} \times 100$
<p>$S_{outside} = 4.738 \text{ mW/cm}^2$ $S_{inside} = 0.027 \text{ mW/cm}^2$</p>
$Attenuation (\%) = \frac{4.738 - 0.027}{4.738} \times 100 = 99.43\%$

1. Seq. 1.1 Phone Outside Shield.

TEST AREA:	SAC2
RESULTS:	4.738 mW/cm ²

RESULTS:

COMMENTS:
Power density measured with the phone outside the shielded device

1. Seq. 1.2 Phone Inside Shield.

TEST AREA:	SAC2
RESULTS:	0.027 mW/cm²

RESULTS:



COMMENTS:

Power density measured with the phone inside the shielded device

EUT IDENTIFICATION PICTURES



Frontal



Rear



Label view

ID Submuestra: 37658-00001

Ciente: Fernando Muñoz Bullejos

Código Oferta: 5810210610_12_713076

Fecha Recepción: 23-10-2025

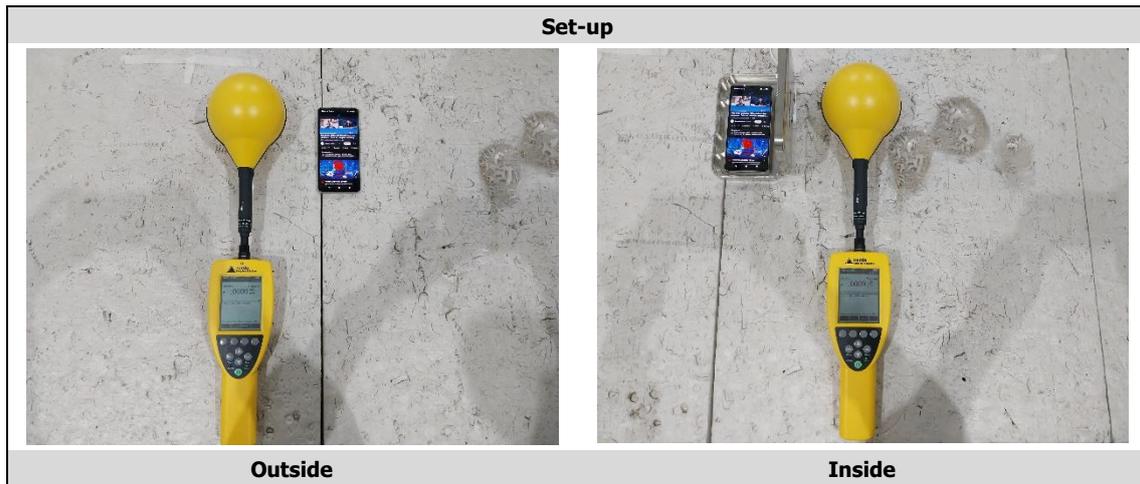
Marca Muestra: Modelo:

Nº de Serie:

Applus label



PICTURES SETUP



USED EQUIPMENT

RADIO-FREQUENCY RADIATED EMISSIONS (SAC1)					
EQUIPMENT	BRAND	MODEL	NUMBER	LAST CALIBRATION	NEXT CALIBRATION
Probe HF 3061, H-Field for NBM, 300kHz-30MHz	NARDA	HF 3061	1042543	18/06/2025	18/06/2027
NBM-550 Broadband Field Meter	NARDA	NBM-550	1042541	18/06/2025	18/06/2026
SEMI ANECHOIC CHAMBER SAC1	EUROSHIELD	TC1	104446	11/11/2024	11/11/2026