



In Collaboration with
s p e a g
 CALIBRATION LABORATORY



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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL at 5250MHz

Impedance, transformed to feed point	46.9Ω- 2.77jΩ
Return Loss	- 27.3dB

Antenna Parameters with Head TSL at 5600MHz

Impedance, transformed to feed point	50.6Ω+ 3.36jΩ
Return Loss	- 29.4dB

Antenna Parameters with Head TSL at 5800MHz

Impedance, transformed to feed point	52.3Ω+ 3.45jΩ
Return Loss	- 27.8dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.096 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feed-point can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feed-point may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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DASY6 Validation Report for Head TSL

Date: 2026-02-05

Test Laboratory: CTTL, Beijing, China

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]
D5GHzV2 – SN 1374	5250	HSL	20

Exposure Conditions

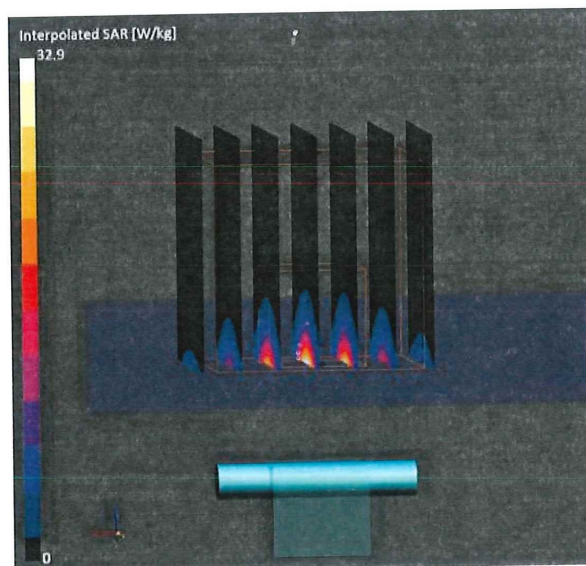
Phantom	Position, Test	Band Group,	Frequency	Conversion	TSL Cond.	TSL
Section, TSL	Distance [mm]	UID	[MHz]	Factor	[S/m]	Permittivity
Flat	10	CW,	5250	5.49	4.68	35.4

Hardware Setup

Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
MFP V8.0 Center	HSL5G	EX3DV4 - SN7307, 2025-05-27	DAE4 Sn1588, 2025-08-29

Scan Setup**Measurement Results**

Zoom Scan		Zoom Scan	
Grid Extents [mm]	22.0×22.0×22.0	psSAR1g [W/kg]	7.91
Grid Steps [mm]	4.0×4.0×1.4	psSAR10g [W/kg]	2.23
Sensor Surface [mm]	1.4	Power Drift [dB]	0.07
Graded Grid	Yes	Power Scaling	Disabled
Grading Ratio	1.4	Scaling Factor [dB]	
MAIA	N/A	TSL Correction	No correction
Surface Detection	VMS + 6p	M2/M1 [%]	62.1
Scan Method	Measured	Dist 3dB Peak [mm]	6.9





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DASY6 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China

Date: 2026-02-06

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]
D5GHzV2 – SN 1374	5600	HSL	20

Exposure Conditions

Phantom	Position, Test	Band Group,	Frequency	Conversion	TSL Cond.	TSL
Section, TSL	Distance [mm]	UID	[MHz]	Factor	[S/m]	Permittivity
Flat	10	CW,	5600	4.95	5.06	34.8

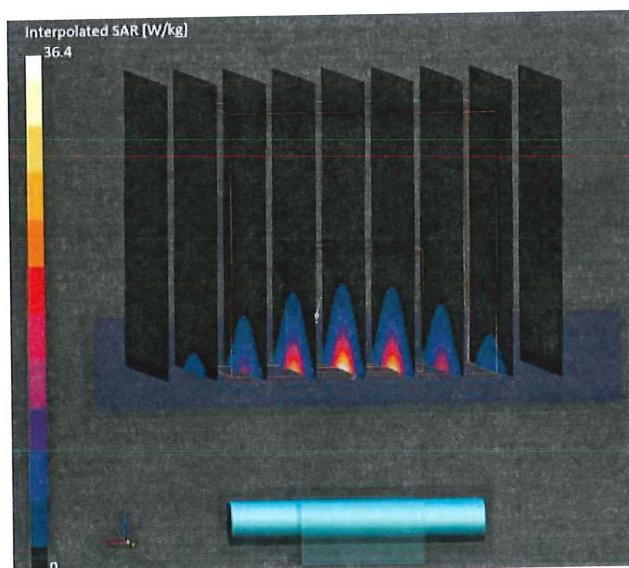
Hardware Setup

Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
MFP V8.0 Center	HSL5G	EX3DV4 - SN7307, 2025-05-27	DAE4 Sn1588, 2025-08-29

Scan Setup

Measurement Results

	Zoom Scan		Zoom Scan
Grid Extents [mm]	22.0×22.0×22.0	psSAR1g [W/kg]	8.19
Grid Steps [mm]	4.0×4.0×1.4	psSAR10g [W/kg]	2.31
Sensor Surface [mm]	1.4	Power Drift [dB]	-0.00
Graded Grid	Yes	Power Scaling	Disabled
Grading Ratio	1.4	Scaling Factor [dB]	
MAIA	N/A	TSL Correction	No correction
Surface Detection	VMS + 6p	M2/M1 [%]	59.3
Scan Method	Measured	Dist 3dB Peak [mm]	7.4





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DASY6 Validation Report for Head TSL
Test Laboratory: CTTL, Beijing, China

Date: 2026-02-09

Summary

Dipole	Frequency [MHz]	TSL	Power [dBm]
D5GHzV2 – SN 1374	5800	HSL	20

Exposure Conditions

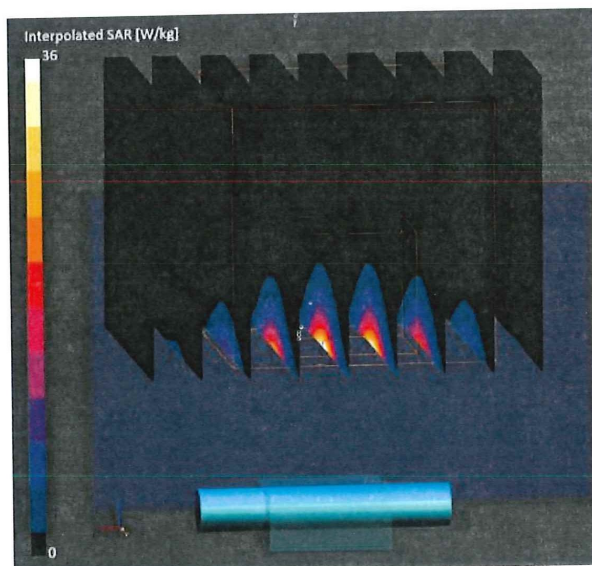
Phantom	Position, Test	Band Group,	Frequency	Conversion	TSL Cond.	TSL
Section, TSL	Distance [mm]	UID	[MHz]	Factor	[S/m]	Permittivity
Flat	10	CW,	5800	5.03	5.25	34.6

Hardware Setup

Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
MFP V8.0 Center	HSL5G	EX3DV4 - SN7307, 2025-05-27	DAE4 Sn1588, 2025-08-29

Scan Setup**Measurement Results**

Zoom Scan		Zoom Scan	
Grid Extents [mm]	22.0×22.0×22.0	psSAR1g [W/kg]	7.83
Grid Steps [mm]	4.0×4.0×1.4	psSAR10g [W/kg]	2.20
Sensor Surface [mm]	1.4	Power Drift [dB]	0.03
Graded Grid	Yes	Power Scaling	Disabled
Grading Ratio	1.4	Scaling Factor [dB]	
MAIA	N/A	TSL Correction	No correction
Surface Detection	VMS + 6p	M2/M1 [%]	57.4
Scan Method	Measured	Dist 3dB Peak [mm]	7.6





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Impedance Measurement Plot for Head TSL

