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Appendix C for KSCR220700128901

Calibration Certificate

Object	Apply	No	Model	SN	Calibration Date
		1	CLA150	4025	2021/04/26
		2	D450V3	1103	2021/04/21
		3	D750V3	1188	2022/03/29
		4	D835V2	4d114	2022/03/31
		5	D900V2	1d079	2022/06/07
D: 1		6	D1800V2	2d170	2022/03/31
Dipole		7	D1900V2	5d1136	2022/06/07
		8	D2000V2	1041	2022/06/06
		9	D2300V2	1096	2022/03/31
	\boxtimes	10	D2450V2	817	2022/04/01
		11	D2600V2	1158	2022/03/31
		12	D5GHzV2	1095	2022/06/01
DAE		13	DAE4	1245	2022/05/30
Probe		14	EX3DV4	7346	2022/03/30



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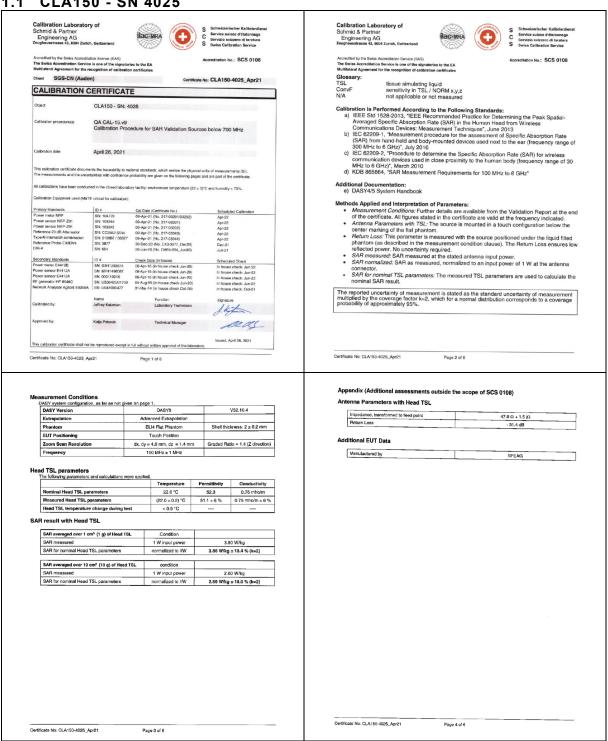
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Dipole 1

CLA150 - SN 4025





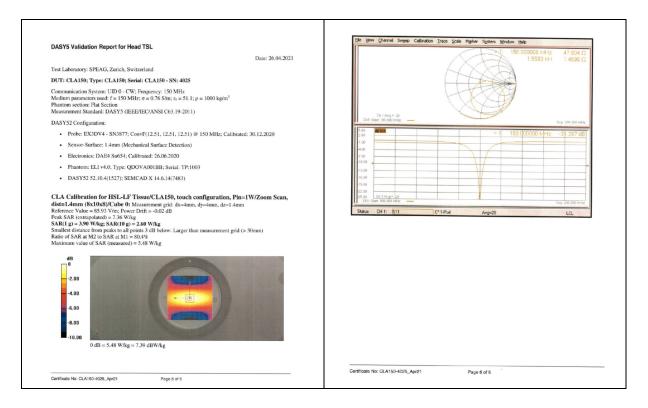
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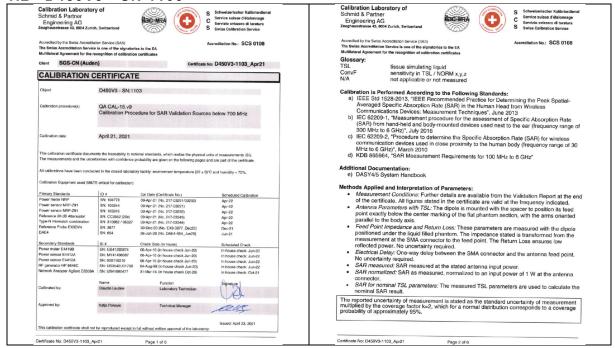
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1.2 D450V3 - SN 1103





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ASY system configuration, as far as not DASY Version		
	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Pharitom	Shell thickness: 2 ± 0.2 mm
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	450 MHz + 1 MHz	

Ţ	he following parameters and calculations v	were applied.	
ı			

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	43.5	0.87 mhc/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	43.1 ± 6 %	0.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition		
SAR measured	250 mW input power	1,14 W/kg	
SAR for nominal Head TSL parameters	normalized to 1W	4,55 W/kg ± 18.1 % (k=2)	
SAR averaged over 10 cm ³ (10 g) of Head TSL	condition		
SAR averaged over 10 cm ² (10 g) of Head TSL SAR measured	condition 250 mW input power	0.767 W/kg	

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	57.1 Ω - 2.8 jΩ
Return Loss	- 23.0 dB

General Antenna Parameters and Design

1.346 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coordin cable. The center conductor of this feeding line is in seedly connected second arm of the dipole. The antenne is therefore short-circular for Co-signate. On some of the dipole, small under a walder of the logic arm in order to improve matching when headed according to the position as registrated in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still concerning to the Sandard. The same content of the second control to the substitution of the same control to the Sandard. Belief to the dipole arms, because they might bend or the soldered connections near the frequent time by the changed.

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL

DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

Communication System: UID 0 - CW; Frequency: 450 MHz Medium parameters used: f = 450 MHz, $\sigma = 0.87$ S/m; $\epsilon_r = 43.1$; $\rho = 1000$ kg/m³ Phanton section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

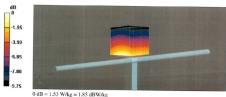
DASY52 Configuration:

Probe: EX3DV4 - SN3877; ConvF(10.64, 10.64, 10.64) @ 450 MHz; Calibrated: 30.12.2020

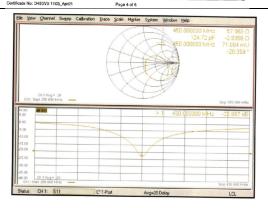
Date: 21.04.2021

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 26.06.2020
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole Calibration for Head Tissue/d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 9.18 V/m, Powo Print = 0.08 dB
Peak SAR (extrapolated) = 1,76 W/kg
SAR(1g) = 1.14 W/kg; SAR(1g) = 0.475 W/kg
Smalles distance from peaks to all points 3 dB below: Larger than measurement grid
Ratio of SAR at W2 to SAR at W1 = 64.9%
Maximum value of SAR (measured) = 1.53 W/kg



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Certificate No: D450V3-1103_Apr21 Page 6 of 6



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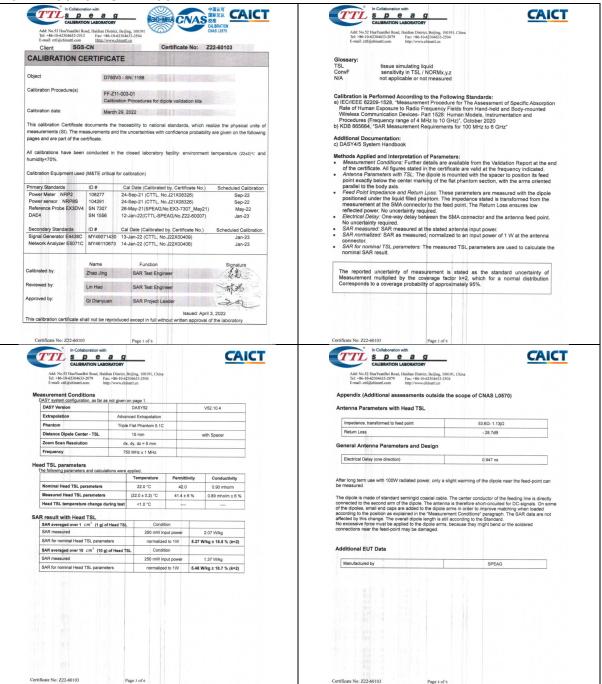
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1.3 D750V3 - SN 1188



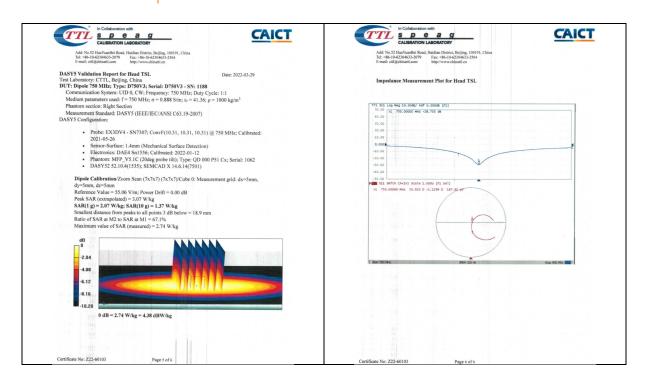


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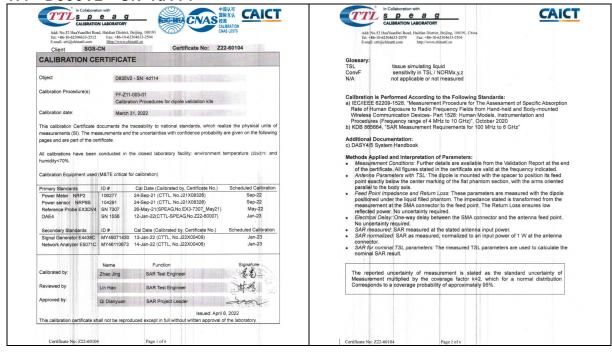
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1.4 D835V2 - SN 4d114





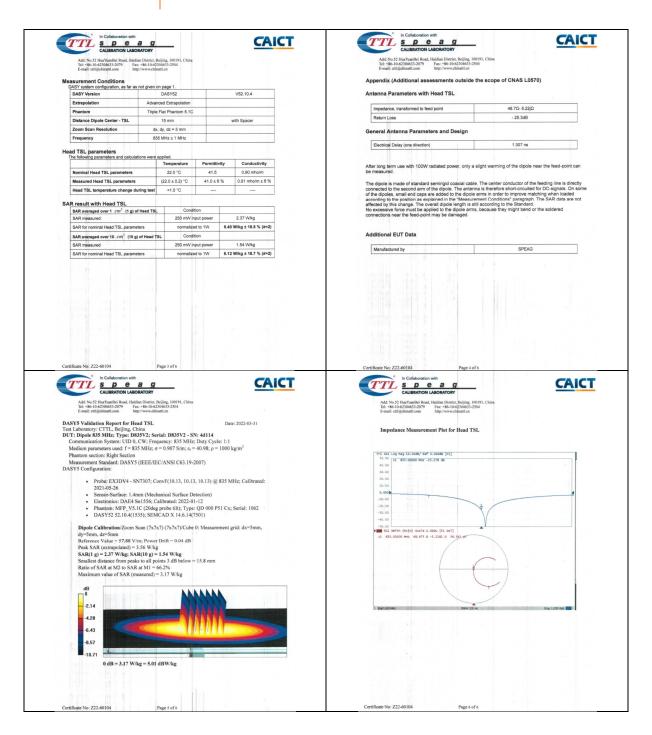
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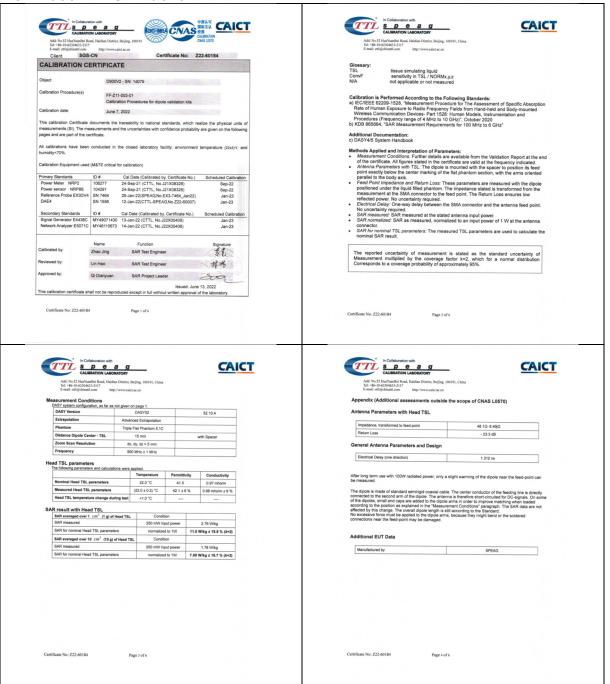
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1.5 D900V2 - SN 1d079





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