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Appendix C for KSCR230600097509

Calibration Certificate

Object	Apply	No	Model	SN	Calibration Date	Due date of calibration
		1	CLA150	4025	2021/04/26	2024/04/25
		2	D450V3	1103	2021/04/21	2024/04/20
	\boxtimes	3	D750V3	1188	2022/03/29	2025/03/28
	\boxtimes	4	D835V2	4d114	2022/03/31	2025/03/30
		5	D900V2	1d079	2022/06/07	2025/06/06
D' 1	\boxtimes	6	D1800V2	2d170	2022/03/31	2025/03/30
Dipole	\boxtimes	7	D1900V2	5d136	2022/06/07	2025/06/06
		8	D2000V2	1041	2022/06/06	2025/06/05
		9	D2300V2	1096	2022/03/31	2025/03/30
	\boxtimes	10	D2450V2	817	2022/04/01	2025/03/31
	\boxtimes	11	D2600V2	1158	2022/03/31	2025/03/30
	\boxtimes	12	D5GHzV2	1095	2022/06/01	2025/05/31
DAE	\boxtimes	13	DAE4	1245	2023/04/25	2024/04/24
Probe	\boxtimes	14	EX3DV4	7767	2022/10/28	2023/10/27



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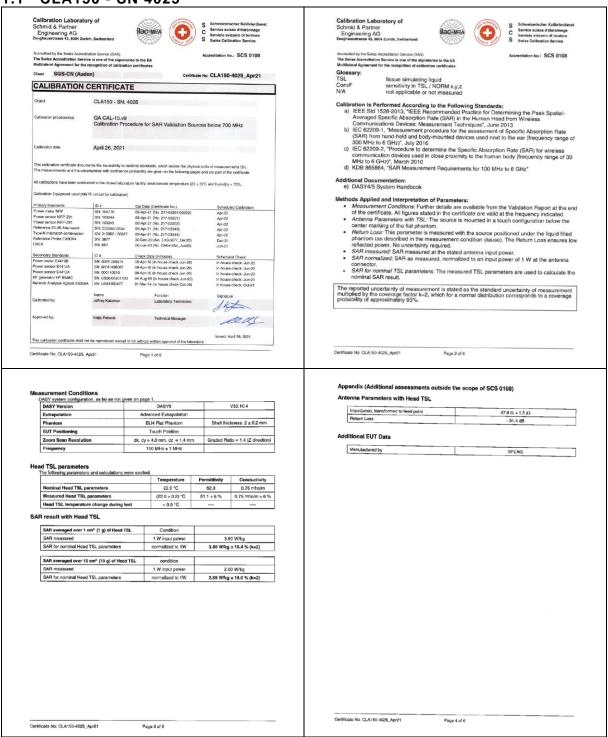
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Dipole 1

1.1 CLA150 - SN 4025



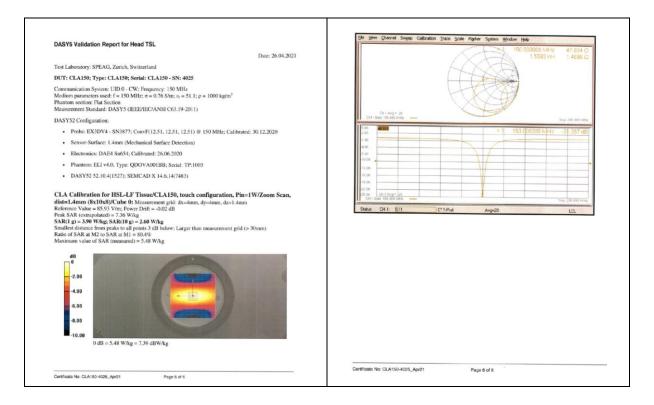


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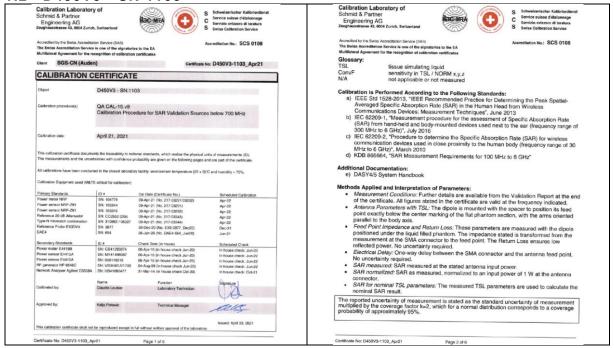
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D450V3 - SN 1103





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Measurement Conditions

DASY Version	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	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	

The following parameters and calculations were app	led.		
	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	43.5	0.87 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	43.1±6%	0.87 mho/m ± 6 %
Head TSL temperature change during test	<05°C		

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 ² (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 WA:g

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

Electrical Delay (one direction)	
	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 semisigal conditionable. The center outsides of the fleeting with the execution of the conditionable of the center outsides of the fleeting their interest consistent of the dipoles, until ord of second and the dipole, the antition is therefore short-divisible for DC-signish. On some of the dipoles, until ord of see addition to the dipole arms in order to improve matching when honded eccornicy to the propriet on surphittent of "Massurement Conditions" paragraph. The SAR data are not affected by this charge. The overall apply length is self. No excessive force mask the applied to the dipole arms, because they might bend or the soldward connections near the loopole through a charged.

Additional EUT Data



Certificate No: D450V3-1103_Apr21 Certificate No: D450V3-1103_Apr21 Page 4 of 6 Page 3 of 6

DASY5 Validation Report for Head TSL

Date: 21.04.2021

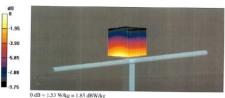
Test Laboratory: SPEAG, Zurich, Switzerland DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1103

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

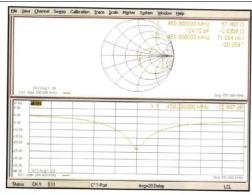
DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(10.64, 10.64, 10.64) @ 450 MHz; Calibrated: 30.12.2020
- 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: txe-5mm, dys-5mm, dzs-5mm
Reference Value = 9.18 V/m, Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.76 W/kg
SAR(1 g) = 1.14 W/kg; SAR(1 g) = 0.676 W/kg
Saralleg s = 0.04 W/kg; SAR(1 g) = 0.64 W/kg
SAR(1 g) = 1.14 W/kg; SAR(1 g) = 0.64 W/kg
SAR(1 g) = 1.48 V = 0.84 R w H = 0.64 W/kg
Maximum value of SAR (measured) = 1.53 W/kg



Certificate No: D450V3-1103_Apr21



Certificate No: D450V3-1103_Apr21

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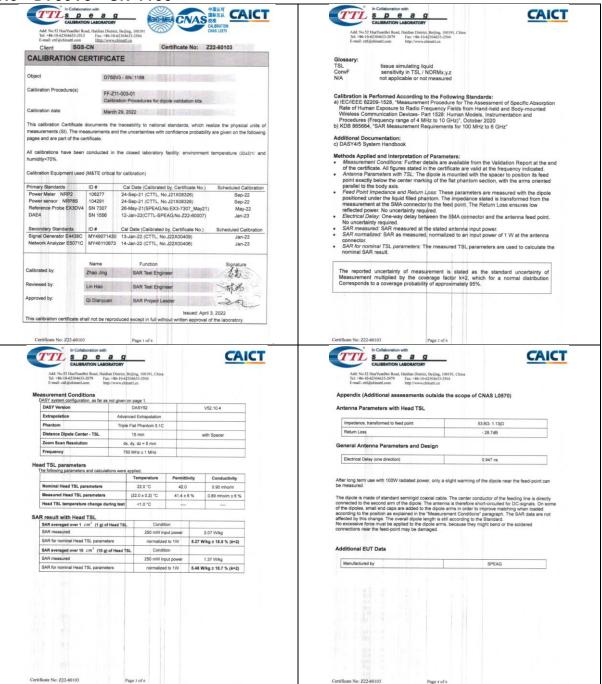
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1.3 D750V3 - SN 1188



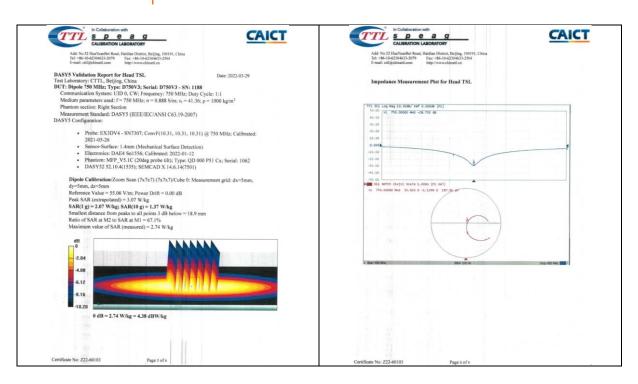


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1.4 D835V2 - SN 4d114



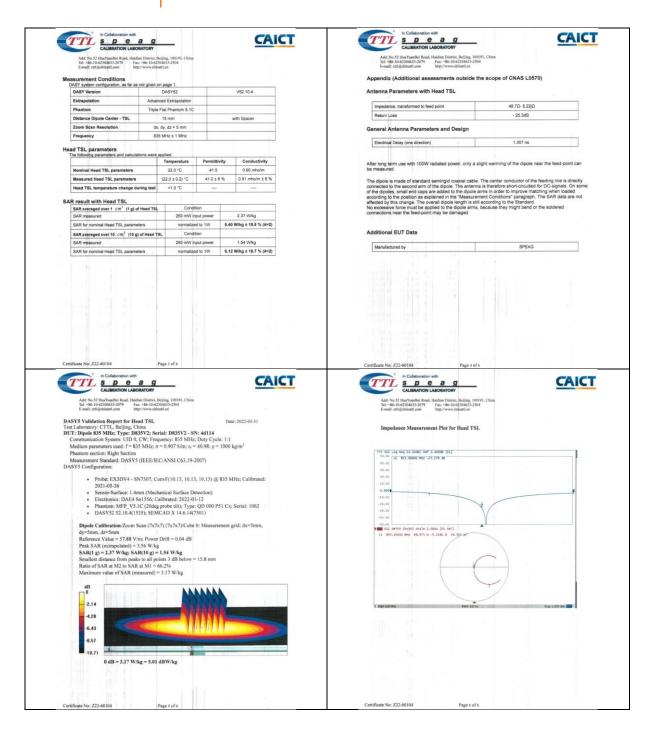


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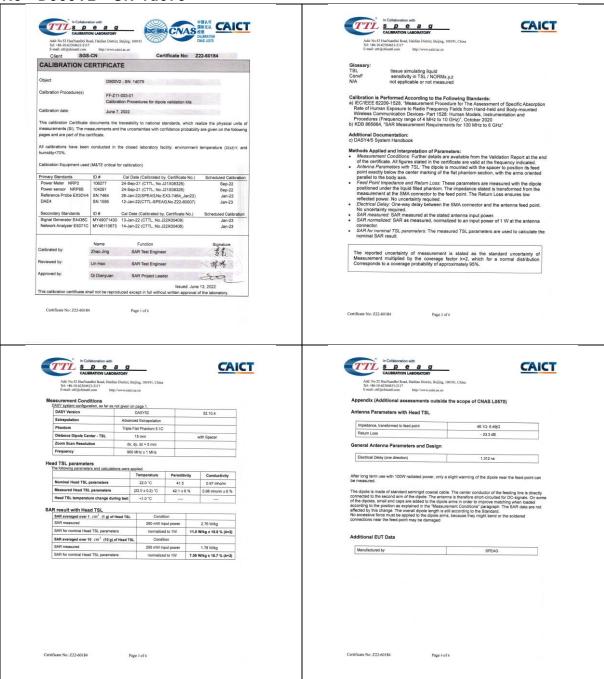
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D900V2 - SN 1d079



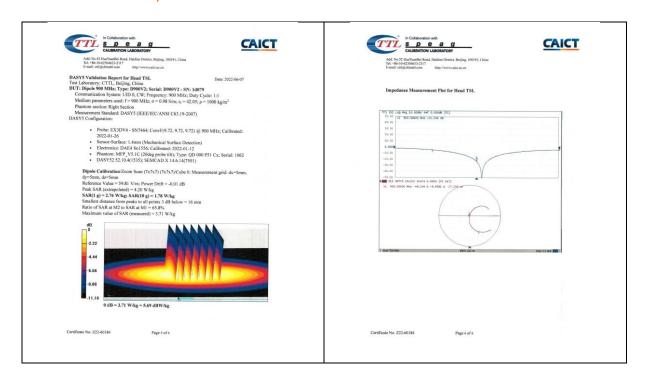


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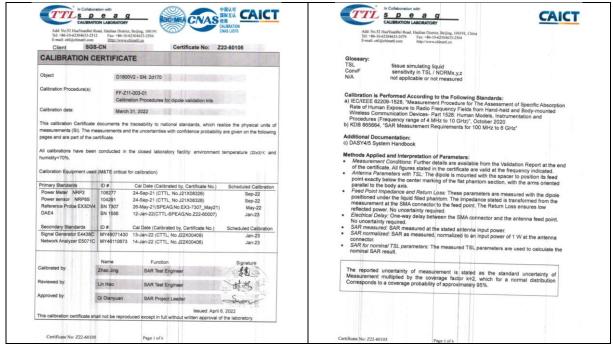
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1.6 D1800V2 - SN 2d170



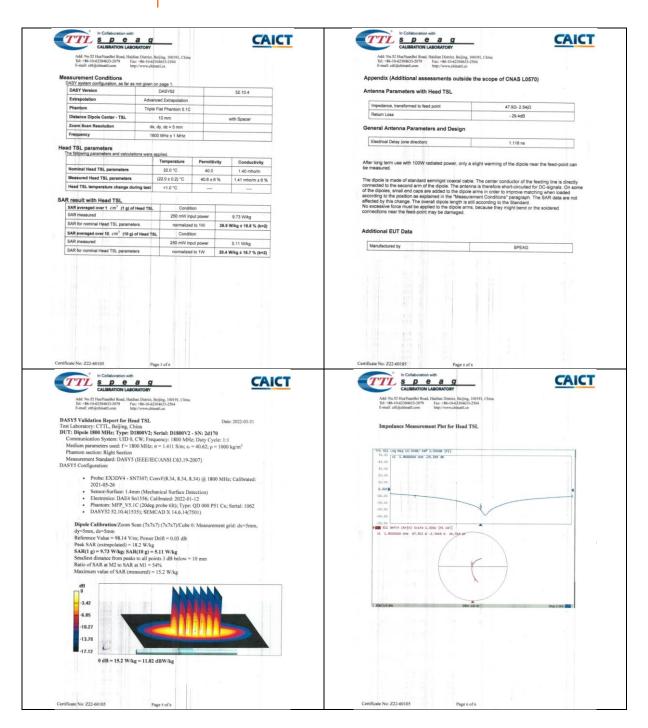


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1.7 D1900V2 - SN 5d136



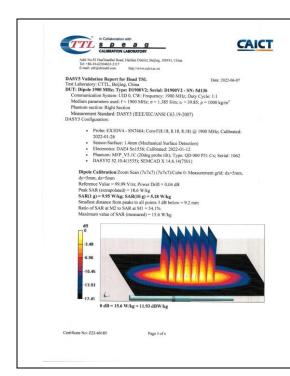


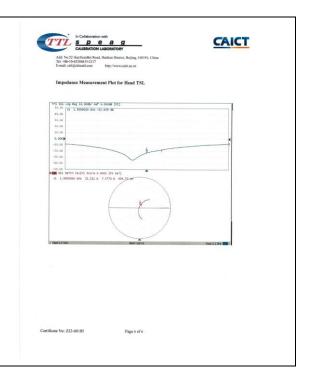
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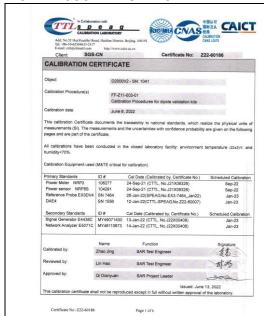


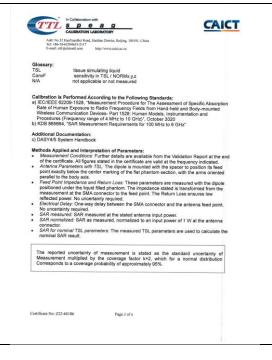
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1.8 D2000V2 - SN 1041





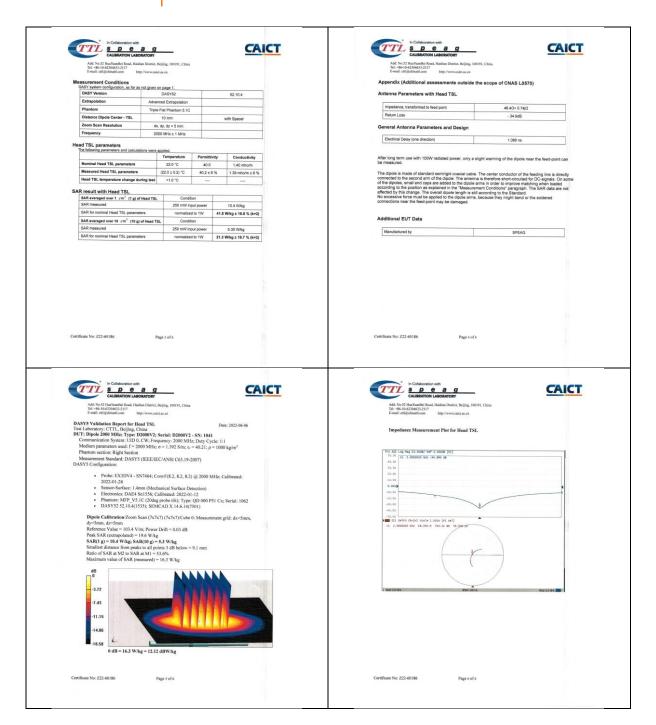


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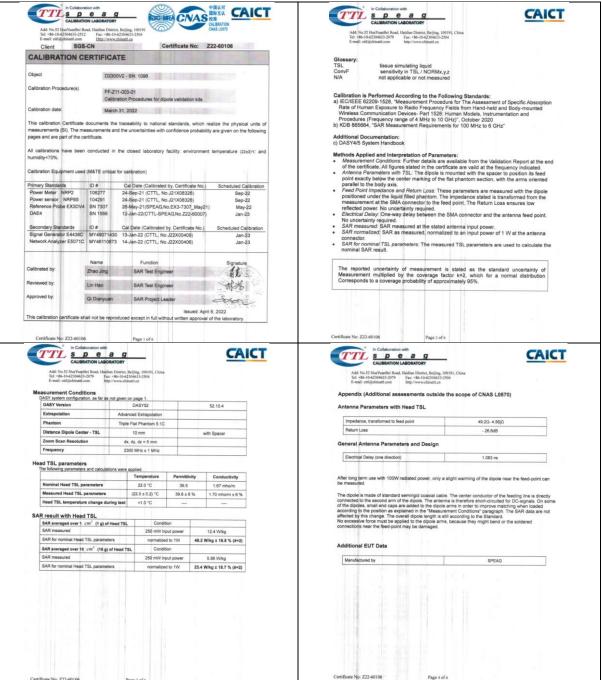
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D2300V2 - SN 1096



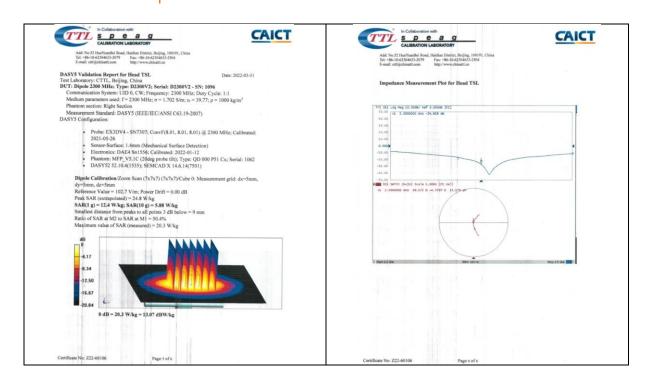


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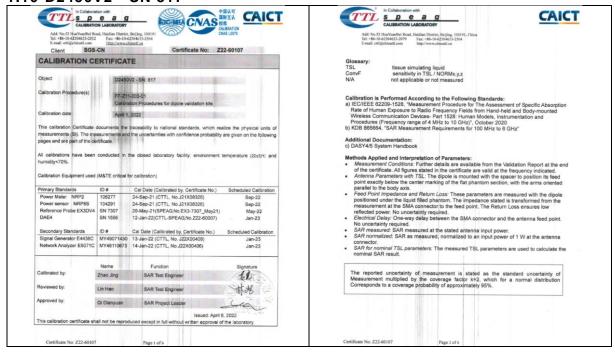
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1.10 D2450V2 - SN 817



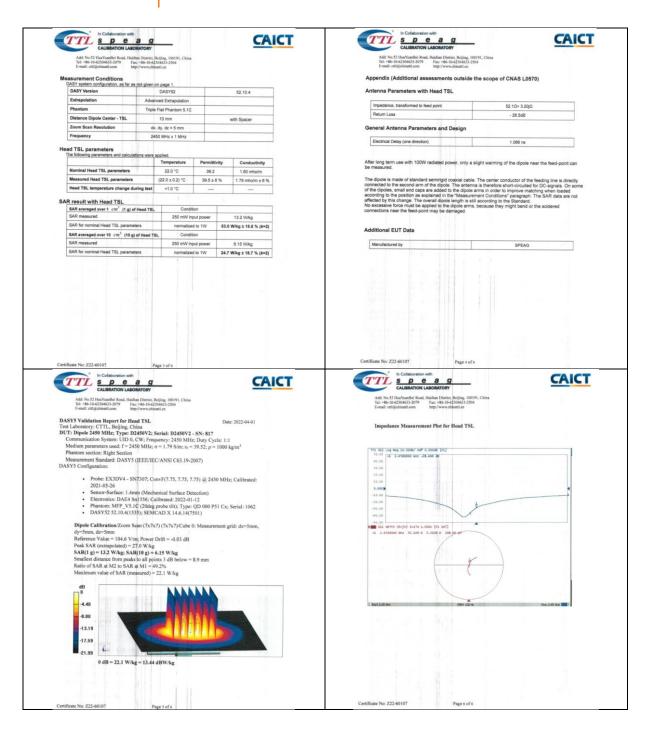


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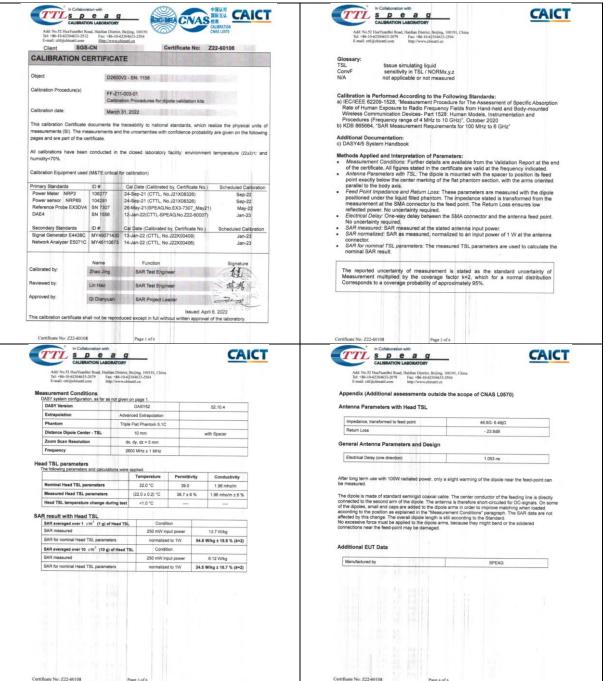
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1.11 D2600V2 - SN 1158



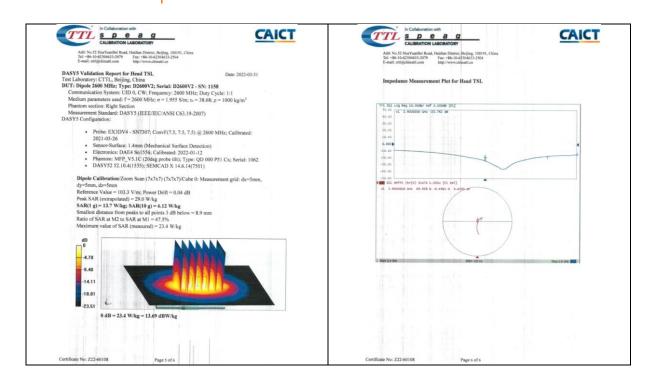


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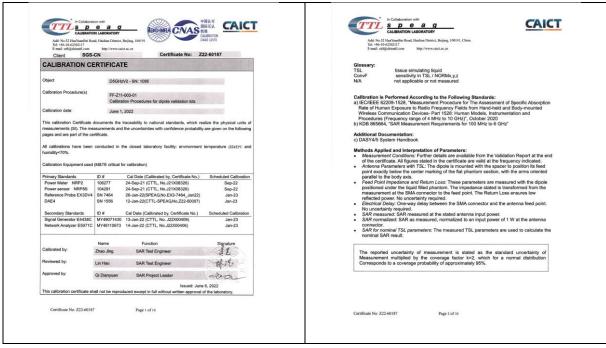
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1.12 D5GHzV2 - SN 1095





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CAICT

CAICT



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ASY system configuration, as far as	not given on page 1.	
DASY Version	DASY52	52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5600 MHz ± 1 MHz	

Head TSL parameters at 5200MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mhaim
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.4 ± 6 %	4.62 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	-	-

SAR result with Head TSL at 5200MHz

Condition	
250 mW input power	7.79 W/kg
normalized to 1W	77.6 W/kg ± 24.4 % (k=2)
Condition	
250 mW input power	2.22 W/kg
normalized to 1W	22.1 W/kg ± 24.2 % (k=2)
	250 mW input power normalized to 1W Condition 250 mW input power

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Add: No.52 HunYuznBei Road, Haidian District, Beijing, 100191, China Tel: +86-10-62302117
E-mail: ctliffichinattl.com http://www.caict.ac.on

Head TSL parameters at 5300MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.2 ± 6 %	4.73 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		-

SAR result with Head TSI at 5300MHz

SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.94 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.1 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.27 W/kg
SAR for naminal Head TSI parameters	normalized to 1W	22.6 W/kg ± 24.2 % (kg2)

Head TSL parameters at 5500MHz

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.8 ± 6 %	4,94 mho/m ± 6 9
Head TSL temperature change during test	<1.0 °C		-

SAR result with Head TSL at 5500MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	82.5 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.34 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.3 W/kg ± 24.2 % (k=2)

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he following parameters and calculations were	applied.		
	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.7 ± 6 %	5.05 mho/m ± 6 %
Head TSI temperature change during test	×10.10	Carallia .	8800

AR result with Head TSL at 5600MHz		
SAR averaged over 1 cm ² (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	80.8 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.30 W/kg

SAR for nominal Head TSL parameters normalized to 1W 22.9 W/kg ± 24.2 % (k=2)

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	5.25 mho/m ± 6 %
Mand TEL transcriptor above a distantial	-4.0.40		

R result with Head TSL at 5800MHz		
SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.71 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	76.7 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.16 W/kg

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nts outside the scope of CNAS L0570)

4,				
Antenna Parameters v	vith Head TSL	at 5200MHz		

Impedance, transformed to feed point	46.1Ω- 5.03jΩ	
Return Loss	- 23.6dB	

ntenna Parameters with Head TSL at 5300MHz

Impedance, transformed to feed point	47.8Ω- 2.42jΩ	
Return Loss	- 29.5dB	

Antenna Parameters with Head TSL at 5500MHz

Impedance, transformed to feed point	50.3Ω- 4.26jΩ		
Return Loss	- 27.4dB		

Impedance, transformed to feed point	54.5Q-4.80iQ	
Return Loss	-24.0dB	

Impedance, transformed to feed point	51.5Ω- 5.61jΩ
Return Loss	- 24.9dB

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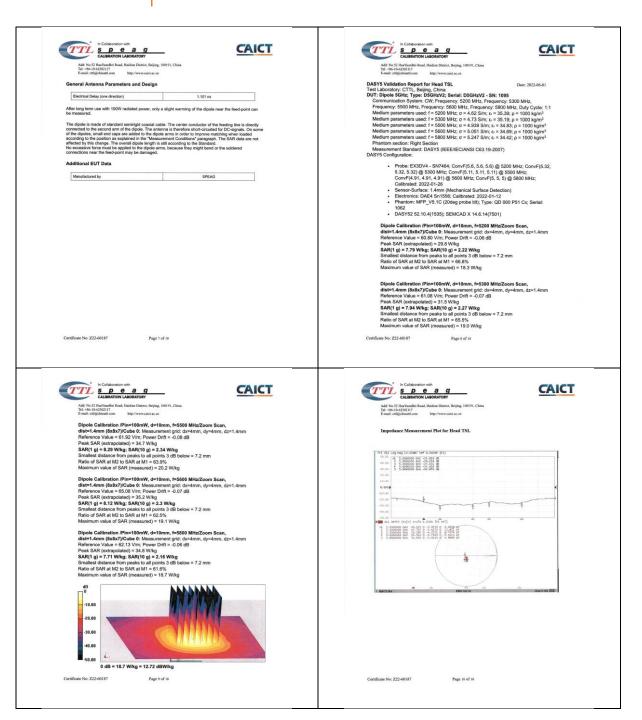


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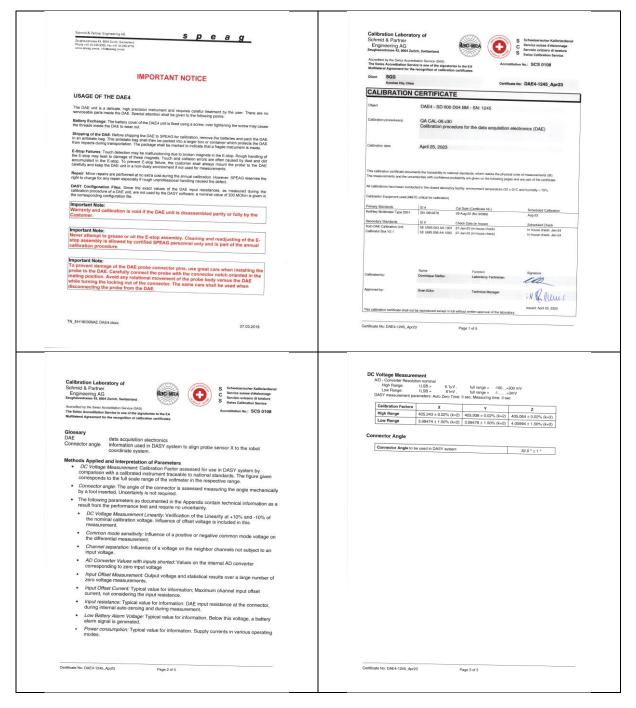
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2 **DAE4 - SN 1245**



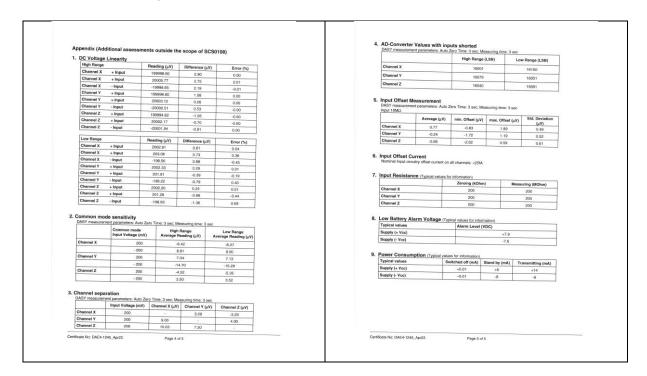


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EX3DV4 - SN 7767 3





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400 564 4.26 6.13 6.12 6.17 6.07 5.07 0.00 150 153.15K 400 563 4.40 6.50 5.00 150 150 153.15K 500 560 560 4.66 5.56 5.66 0.40 1.60 1.51.15K 500 566 4.40 5.50 5.50 5.50 5.50 5.50 5.50 6.40 1.50 1.51.15K 500 36.5 5.50 5.50 5.51 5.14 5.14 6.40 1.50 1.51.15K 500 36.5 5.50 5.50 5.51 5.14 5.14 6.14 0.40 1.50 1.51.15K 500 36.5 5.50 5.50 5.50 5.50 5.50 5.50 6.40 1.50 1.51.15K 500 36.5 5.50 5.50 5.50 5.50 5.50 5.50 6.40 1.50 1.51.15K 500 36.5 5.50 5.50 5.50 5.50 5.50 5.50 5.50 6.40 1.50 1.51.15K 500 36.5 5.50 5.50 5.50 5.50 5.50 5.50 5.50 6.40 1.50 1.51.15K 500 36.5 5.50 5.50 5.50 5.50 5.50 5.50 5.50 5	4600 98.4 4.28 6.13 4.79 6.17 6.07 6.07 6.07 6.00 150 153.1% 6.55 6.00 150 153.1% 6.55 6.00 150 153.1% 6.55 6.00 150 153.1% 6.55 6.00 150 153.1% 6.55 6.00 150 153.1% 6.55 6.00 150 153.1% 6.55 6.00 150 153.1% 6.55 6.00 150 153.1% 6.55 6.00 150 150 153.1% 6.55 6.00 150 150 153.1% 6.55 6.00 150 150 153.1% 6.55 6.00 150 150 150 150 150 150 150 150 150 1	4200 37.1			£ 08
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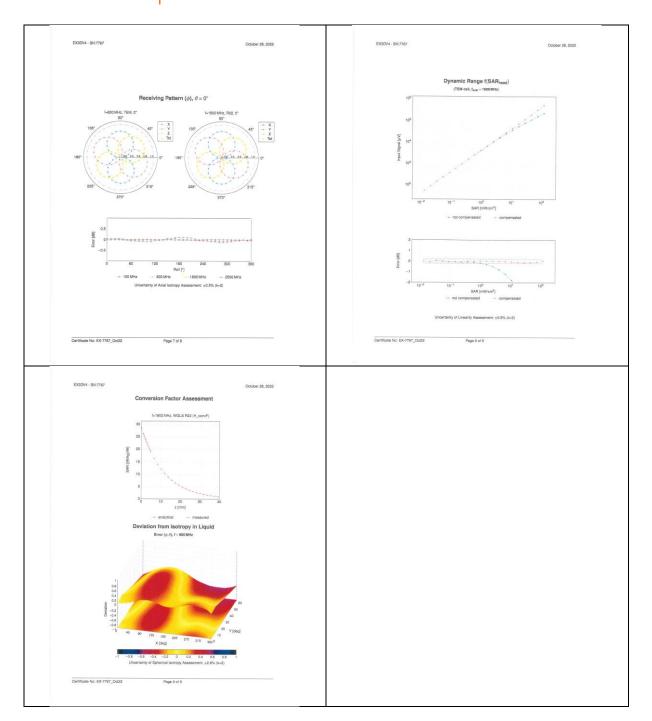
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4 Impedance and return loss

	Dipole C	LA150 SN 4025					
	•	ead Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2021/4/26	-31.4	/	47.8	/			
2022/4/26	-32.5	-3.5%	47.1	0.7			
2023/4/26	-32.3	-2.87%	46.5	1.3			
	Dipole D	450V3 SN 1103					
Head Liquid							
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2021/4/21	-23	/	57.1	/			
2022/4/26	-23.4	-1.74%	56.6	0.5			
2023/4/26	-23.9	-3.91%	56.2	0.9			
	Dipole D	750V3 SN 1188					
	He	ead Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/3/29	-28.7	/	53.6	/			
2023/3/29	-28.3	1.39%	53.2	0.4			
	Dipole Da	835V2 SN 4d114					
	He	ead Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/3/31	-25.3	/	48.7	/			
2023/3/31	-24.6	2.77%	49.1	0.4			
	Dipole D	900V2 SN 1d079					
		ead Liquid					
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ			
2022/6/7	-23.3	/	48.1	/			
2023/6/7	-23.6	-1.29%	48.3	0.2			
	Dipole D1	800V2 SN 2d170					
	He	ead Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/3/31	-29.4	/	47.9	/			
2023/3/31	-28.9	1.70%	47.2	0.7			
	Dipole D1	900V2 SN 5d136					
	He	ead Liquid					
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ			
2022/6/7	-22.4	/	51.2	/			
2023/6/7	-22.9	-2.23%	51.6	-0.4			
		2000V2 SN 1041					
		ead Liquid					
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ			
2022/6/6	-34.9	/	48.4	/			
2023/6/6	-33.5	4.01%	49.1	-0.7			



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Dipole D2300V2 SN 1096								
Head Liquid								
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ				
2022/3/31	-26.6	/	49.2	/				
2023/3/31	-27.1	-1.88%	49.4	0.2				
Dipole D2450V2 SN 817								
Head Liquid								
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ				
2022/4/1	-28.5	/	52.1	/				
2023/4/1	-28.0	1.75%	51.6	0.5				
Dipole D2600V2 SN 1158								
Head Liquid								
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ				
2022/3/31	-23.8	/	49.9	/				
2023/3/31	-23.3	2.10%	50.3	0.4				
	Dipole D5GH	IzV2 SN 1095 for 520	0					
Head Liquid								
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ				
2022/6/1	-23.6	/	46.1	/				
2023/6/1	-23.1	2.12%	45.6	0.5				
Dipole D5GHzV2 SN 1095 for 5300								
Head Liquid								
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ				
2022/6/1	-29.5	/	47.8	/				
2023/6/1	-28.8	2.37%	46.9	0.9				
Dipole D5GHzV2 SN 1095 for 5500								
Head Liquid								
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ				
2022/6/1	-27.4	/	50.3	/				
2023/6/1	-27.6	-0.73%	50.8	-0.5				
Dipole D5GHzV2 SN 1095 for 5600								
Head Liquid								
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ				
2022/6/1	-24.0	/	54.5	/				
2023/6/1	-23.6	1.67%	54.9	-0.4				
Dipole D5GHzV2 SN 1095 for 5800								
Head Liquid								
Date of Measurement	Return Loss(dB)	Δ%	Impedance (Ω)	ΔΩ				
2022/6/1	-24.9	/	51.5	/				
2023/6/1	-24.3	2.41%	51.0	0.5				



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