

Test Mode: WIFI 5GHz-Band 4(ANT1):

Test Laboratory: Audix SAR Lab CH155(5775MHz Back)

DUT: Notebook Computer M/N:N24B4

Communication System: UID 0, IEEE 802.11ax80 WiFi 5.8GHz (0); Communication System Band: IEEE 802.11ax80 WiFi 5.8GHz; Frequency: 5775 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 5775 MHz; $\sigma = 5.125$ S/m; $\epsilon_r = 34.861$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3767; ConvF(4.91, 4.91, 4.91); Calibrated: 01/08/2024;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 06/06/2024
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH155(5775MHz Back)/Area Scan (51x71x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.498 W/kg

Configuration/CH155(5775MHz Back)/Zoom Scan (5x5x7)/Cub e 0:

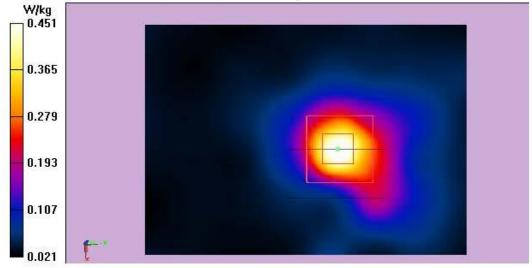
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.171 V/m; Power Drift = 0.15 dB

Peak SAR (extrapolated) = 1.23 W/kg

SAR(1 g) = 0.389 W/kg; SAR(10 g) = 0.161 W/kg

Maximum value of SAR (measured) = 0.451 W/kg





Test Laboratory: Audix SAR Lab CH155(5775MHz Front)

DUT: Notebook Computer M/N:N24B4

Communication System: UID 0, IEEE 802.11ax80 WiFi 5.8GHz (0); Communication System Band: IEEE 802.11ax80 WiFi 5.8GHz; Frequency: 5775 MHz; Communication

System PAR: 0 dB

Medium parameters used: f = 5800 MHz; $\sigma = 5.12$ S/m; $\varepsilon_r = 34.54$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3767; ConvF(4.91, 4.91, 4.91); Calibrated: 01/08/2024;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 06/06/2024
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH155(5775MHz Front)/Area Scan (51x71x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm.

Maximum value of SAR (interpolated) = 0.106 W/kg

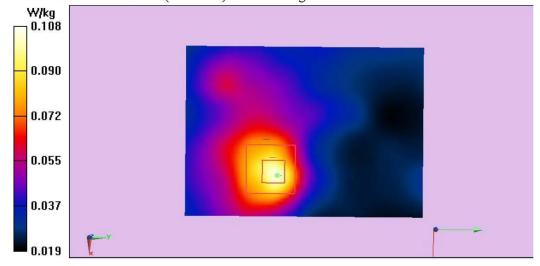
Configuration/CH155(5775MHz Front)/Zoom Scan (5x5x7)/Cube 0:

Measurement grid: dx=8mm, dy=8mm, dz=5mm Reference Value = 1.927 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 0.231 W/kg

SAR(1 g) = 0.097 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.108 W/kg





Test Mode: WIFI 5GHz-Band 4(ANT2):

Test Laboratory: Audix SAR Lab CH155(5775MHz Back)

DUT: Notebook Computer M/N:N24B4

Communication System: UID 0, IEEE 802.11ax80 WiFi 5.8GHz (0); Communication System Band: IEEE 802.11ax80 WiFi 5.8GHz; Frequency: 5775 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 5775 MHz; $\sigma = 5.125$ S/m; $s_r = 34.861$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3767; ConvF(4.91, 4.91, 4.91); Calibrated: 01/08/2024;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 06/06/2024
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH155(5775MHz Back)/Area Scan (51x71x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.154 W/kg

Configuration/CH155(5775MHz Back)/Zoom Scan (5x5x7)/Cub e 0:

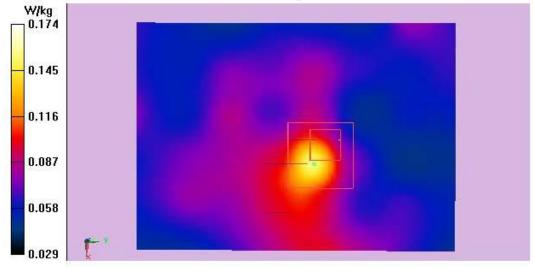
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 3.086 V/m; Power Drift = 0.19 dB

Peak SAR (extrapolated) = 0.351 W/kg

SAR(1 g) = 0.152 W/kg; SAR(10 g) = 0.085 W/kg

Maximum value of SAR (measured) = 0.174 W/kg





Test Laboratory: Audix SAR Lab

CH155(5775MHz Bottom)

DUT: Notebook Computer M/N:N24B4

Communication System: UID 0, IEEE 802.11ax80 WiFi 5.8GHz (0); Communication System Band: IEEE 802.11ax80 WiFi 5.8GHz; Frequency: 5775 MHz; Communication System PAR: 0 dB

Medium parameters used: f = 5775 MHz; $\sigma = 5.125$ S/m; $\epsilon_r = 34.861$; $\rho = 1000$ kg/m³ Phantom section: Flat Section

DASY5 Configuration:

- Probe: EX3DV4 SN3767; ConvF(4.91, 4.91, 4.91); Calibrated: 01/08/2024;
- Modulation Compensation:
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn899; Calibrated: 06/06/2024
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: xxxx
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Configuration/CH155(5775MHz Back)/Area Scan (51x71x1): Interpolated grid:

dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.177 W/kg

Configuration/CH155(5775MHz Back)/Zoom Scan (5x5x7)/Cub e 0:

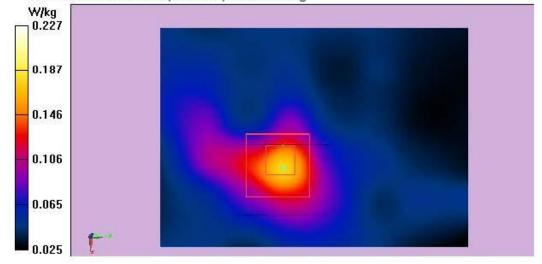
Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 2.924 V/m; Power Drift = -0.15 dB

Peak SAR (extrapolated) = 0.487 W/kg

SAR(1 g) = 0.148 W/kg; SAR(10 g) = 0.081 W/kg

Maximum value of SAR (measured) = 0.227 W/kg





APPENDIX D

DASY Calibration Certificate



AUDIX Technology (Shenzhen) Co., Ltd.





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Client audix Certificate No: J23Z60244

CALIBRATION CERTIFICATE

Object D2450V2 - SN: 862

Calibration Procedure(s) FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date: May 18, 2023

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power Meter NRP2	106277	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Power sensor NRP8S	104291	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
Reference Probe EX3DV4	SN 3617	31-Mar-23(CTTL-SPEAG,No.Z23-60161)	Mar-24
DAE4	SN 1556	11-Jan-23(CTTL-SPEAG,No.Z23-60034)	Jan-24
Secondary Standards	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Signal Generator E4438C	MY49071430	05-Jan-23 (CTTL, No. J23X00107)	Jan-24
NetworkAnalyzer E5071C	MY46110673	10-Jan-23 (CTTL, No. J23X00104)	Jan-24

Name Function Signature
Calibrated by: Zhao Jing SAR Test Engineer

Reviewed by: Lin Hao SAR Test Engineer

Approved by: Qi Dianyuan SAR Project Leader

Issued: May 24, 2023

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Certificate No: J23Z60244 Page 1 of 6







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Glossary:

TSL

tissue simulating liquid

ConvF N/A sensitivity in TSL / NORMx,y,z not applicable or not measured

Calibration is Performed According to the Following Standards:

a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020

b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY 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, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	40.1 ± 6 %	1.82 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	_	_

SAR result with Head TSL

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.9 W/kg ± 18.8 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	6.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	25.2 W/kg ± 18.7 % (k=2)

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Appendix (Additional assessments outside the scope of CNAS L0570)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.3Ω+ 2.34jΩ	
Return Loss	- 29.9dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.067 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
	0. 2.0

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Date: 2023-05-18







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DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 862

Communication System: UID 0, CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.824 \text{ S/m}$; $\varepsilon_r = 40.07$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 SN3617; ConvF(7.68, 7.68, 7.68) @ 2450 MHz; Calibrated: 2023-03-31
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2023-01-11
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm,

dy=5mm, dz=5mm

Reference Value = 87.75 V/m; Power Drift = -0.07 dB

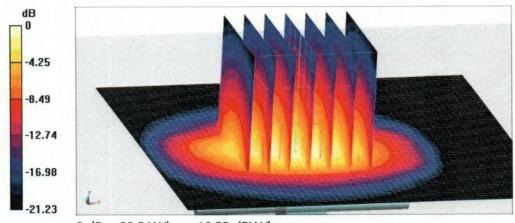
Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.29 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

Ratio of SAR at M2 to SAR at M1 = 49.5%

Maximum value of SAR (measured) = 22.5 W/kg



0 dB = 22.5 W/kg = 13.52 dBW/kg



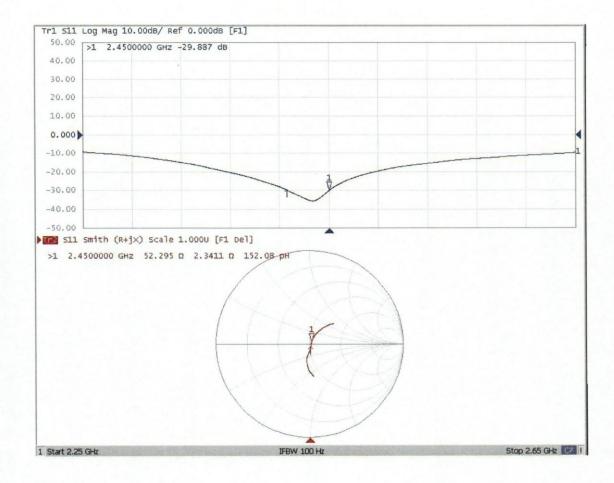




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Impedance Measurement Plot for Head TSL



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Client audix

Certificate No: J23Z60245

CALIBRATION CERTIFICATE

Object D5GHzV2 - SN: 1102

Calibration Procedure(s) FF-Z11-003-01

Calibration Procedures for dipole validation kits

Calibration date: May 19, 2023

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3)℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

106277	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
		Ocp-20
104291	22-Sep-22 (CTTL, No.J22X09561)	Sep-23
SN 3617	31-Mar-23(CTTL-SPEAG,No.Z23-60161)	Mar-24
SN 1556	11-Jan-23(CTTL-SPEAG,No.Z23-60034)	Jan-24
ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
MY49071430	05-Jan-23 (CTTL, No. J23X00107)	Jan-24
MY46110673	10-Jan-23 (CTTL, No. J23X00104)	Jan-24
1	D# MY49071430	D# Cal Date (Calibrated by, Certificate No.) MY49071430 05-Jan-23 (CTTL, No. J23X00107)

Name Function Signature
Calibrated by: Zhao Jing SAR Test Engineer

Reviewed by: Lin Hao SAR Test Engineer

CAR TOST Engineer

Qi Dianyuan

Issued: May 25, 2023

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Certificate No: J23Z60245

Approved by:

Page 1 of 8

SAR Project Leader







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Glossary:

TSL

tissue simulating liquid

ConvF

sensitivity in TSL / NORMx,y,z

N/A

not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure for The Assessment of Specific Absorption Rate of Human Exposure to Radio Frequency Fields from Hand-held and Body-mounted Wireless Communication Devices- Part 1528: Human Models, Instrumentation and Procedures (Frequency range of 4 MHz to 10 GHz)", October 2020
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms oriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of Measurement multiplied by the coverage factor k=2, which for a normal distribution Corresponds to a coverage probability of approximately 95%.







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Measurement Conditions

DASY 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	5250 MHz ± 1 MHz 5600 MHz ± 1 MHz 5750 MHz ± 1 MHz	

Head TSL parameters at 5250MHz

The following parameters and calculations were applied

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.71 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.7 ± 6 %	4.73 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	_	

SAR result with Head TSL at 5250MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.88 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	78.7 W/kg ± 24.4 % (<i>k</i> =2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.23 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.3 W/kg ± 24.2 % (k=2)







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Head TSL parameters at 5600MHz

The 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	35.1 ± 6 %	5.11 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C		_

SAR result with Head TSL at 5600MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	81.8 W/kg ± 24.4 % (k=2)
SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.32 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.1 W/kg ± 24.2 % (k=2)

Head TSL parameters at 5750MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.4	5.22 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.9 ± 6 %	5.28 mho/m ± 6 %
Head TSL temperature change during test	<1.0 °C	_	_

SAR result with Head TSL at 5750MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.75 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.3 W/kg ± 24.4 % (k=2)
SAR averaged over 10 ${\it cm}^3$ (10 g) of Head TSL	Condition	
SAR measured	100 mW input power	2.17 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	21.6 W/kg ± 24.2 % (k=2)

Certificate No: J23Z60245







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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	50.4Ω- 4.07jΩ	
Return Loss	- 27.8dB	

Antenna Parameters with Head TSL at 5600MHz

Impedance, transformed to feed point	56.8Ω+ 0.61jΩ	
Return Loss	- 23.9dB	

Antenna Parameters with Head TSL at 5750MHz

Impedance, transformed to feed point	52.5Ω+ 1.21jΩ	
Return Loss	- 31.2dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.115 ns	
Electrical Delay (one direction)	1.113118	

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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Date: 2023-05-19







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DASY5 Validation Report for Head TSL

Test Laboratory: CTTL, Beijing, China
DUT: Dipole 5GHz; Type: D5GHzV2; Serial: D5GHzV2 - SN: 1102

Communication System: CW; Frequency: 5250 MHz, Frequency: 5600 MHz,

Frequency: 5750 MHz

Medium parameters used: f = 5250 MHz; σ = 4.73 S/m; ϵ_r = 35.7; ρ = 1000 kg/m³ Medium parameters used: f = 5600 MHz; σ = 5.112 S/m; ϵ_r = 35.1; ρ = 1000 kg/m³ Medium parameters used: f = 5750 MHz; σ = 5.277 S/m; ϵ_r = 34.88; ρ = 1000 kg/m³

Phantom section: Right Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

Probe: EX3DV4 - SN3617; ConvF(5.5, 5.5, 5.5) @ 5250 MHz; ConvF(5.01, 5.01, 5.01) @ 5600 MHz; ConvF(5.15, 5.15, 5.15) @ 5750 MHz; Calibrated: 2023-03-31

- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1556; Calibrated: 2023-01-11
- Phantom: MFP_V5.1C (20deg probe tilt); Type: QD 000 P51 Cx; Serial: 1062
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration /Pin=100mW, d=10mm, f=5250 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.36 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 32.0 W/kg

SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.23 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 64.8%

Maximum value of SAR (measured) = 18.3 W/kg

Dipole Calibration /Pin=100mW, d=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 50.96 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 36.3 W/kg

SAR(1 g) = 8.2 W/kg; SAR(10 g) = 2.32 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 61.6%

Maximum value of SAR (measured) = 19.6 W/kg

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Dipole Calibration /Pin=100mW, d=10mm, f=5750 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.04 V/m; Power Drift = -0.06 dB

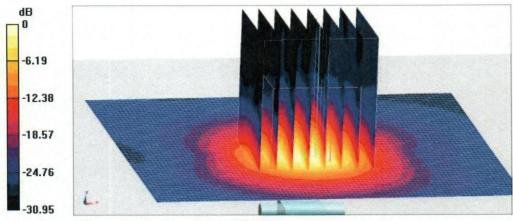
Peak SAR (extrapolated) = 35.9 W/kg

SAR(1 g) = 7.75 W/kg; SAR(10 g) = 2.17 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 60.5%

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.0 W/kg = 12.79 dBW/kg

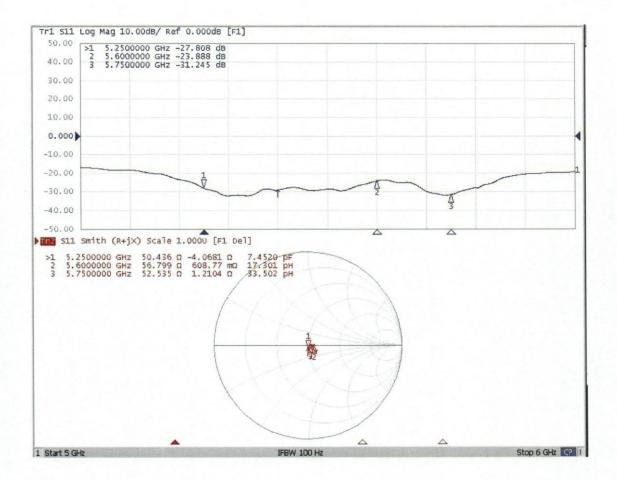






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Impedance Measurement Plot for Head TSL



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Client :

Audix



Certificate No: 24J02Z000275

CALIBRATION CERTIFICATE

Object

DAE4 - SN: 899

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date:

June 06, 2024

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3) ℃ and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards ID # Cal Date(Calibrated by, Certificate No.) Scheduled Calibration

Process Calibrator 753 1971018 12-Jun-23 (CTTL, No.J23X05436) Jun-24

Calibrated by:

Name Function

Yu Zongying SAR Test Engineer

Reviewed by:

Lin Jun

SAR Test Engineer

Approved by:

Qi Dianyuan

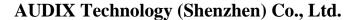
SAR Project Leader

Issued: June 09, 2024

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: 24J02Z000275

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E-mail: emi@caict.ac.c

Glossary:

DAE

data acquisition electronics

Connector angle

information used in DASY system to align probe sensor X

to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.



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DC Voltage Measurement

A/D - Converter Resolution nominal

1LSB = High Range: $6.1 \mu V$, full range = -100...+300 mV Low Range: 1LSB = 61nV, full range = -1.....+3mV DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	Х	Y	Z
High Range	402.479 ± 0.15% (k=2)	403.066 ± 0.15% (k=2)	403.057 ± 0.15% (k=2)
Low Range	3.97823 ± 0.7% (k=2)	3.97596 ± 0.7% (k=2)	3.98225 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	350.5° ± 1 °
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