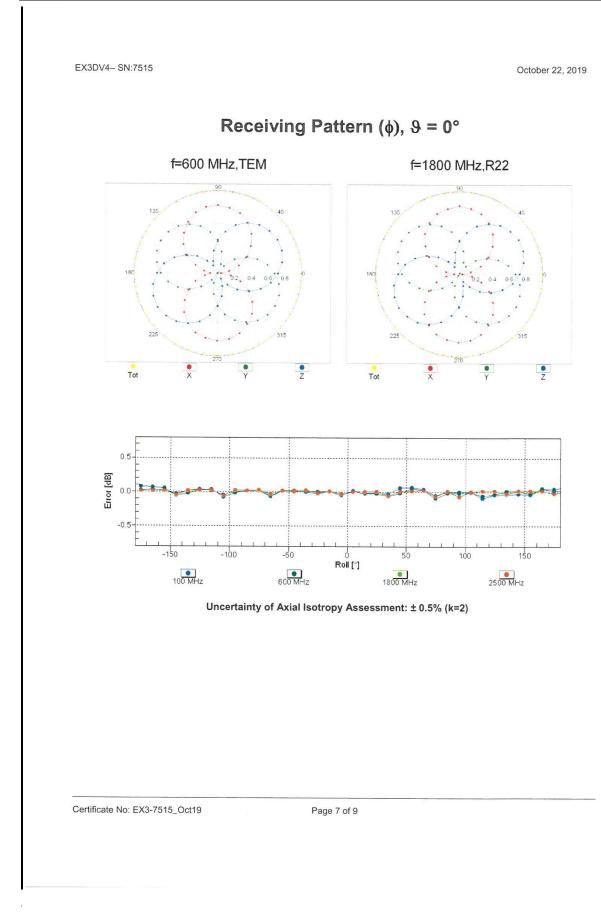
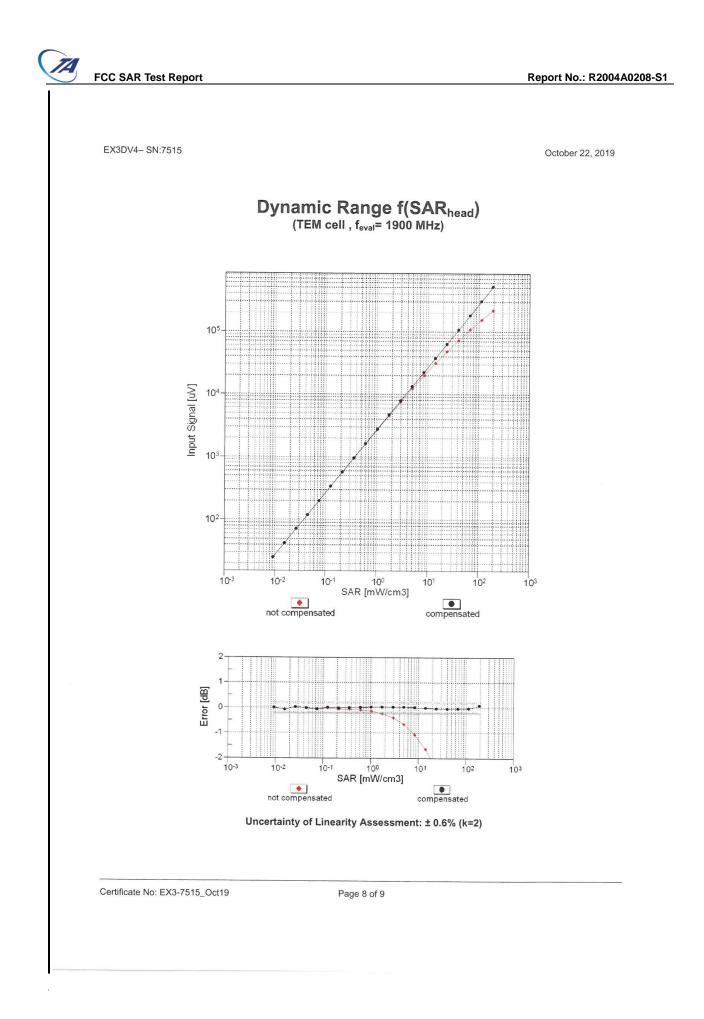
FCC SAR Test Report

Report No.: R2004A0208-S1



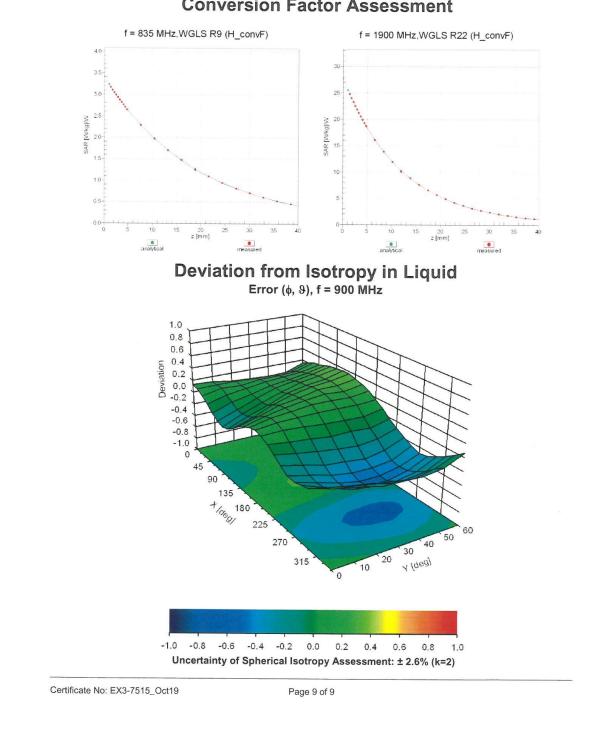


FCC SAR Test Report

Report No.: R2004A0208-S1

EX3DV4- SN:7515

October 22, 2019





## **ANNEX F: D750V3 Dipole Calibration Certificate**

Add: No.51 Xueyua Tel: +86-10-623046 E-mail: ettl@chinat	n Road, Haidian Dist 33-2079 Fax: +3	ration with e a g TON LABORATORY rict, Beijing, 100191, China 86-10-62304633-2504 www.chinattl.cn	中国认可 国际互认 校准 CALIBRATION CNAS L0570	
	Shanghai)		17-97113	
CALIBRATION CE	and the second second			
CALIBRATION CE	RIFICAL		Severe Payle -	
Object	D750V3	- SN: 1045		
Calibration Procedure(s)	FF-Z11- Calibrat	003-01 ion Procedures for dipole validation kits		
Calibration date:	August	27, 2017		
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)°C and humidity<70%. Calibration Equipment used (M&TE critical for calibration)				
Primony Standarda	ID#	Cal Data(Calibrated by Cadiffrate No.)	Oshadada Oslihaatiaa	
Primary Standards Power Meter NRVD	102083	Cal Date(Calibrated by, Certificate No.) 22-Sep-16 (CTTL, No.J16X06809)	Scheduled Calibration	
Power sensor NRV-Z5	102085	22-Sep-16 (CTTL, No.J16X06809) 22-Sep-16 (CTTL, No.J16X06809)	Sep-17 Sep-17	
Reference Probe EX3DV4		23-Jan-17(SPEAG,No.EX3-3617_Jan17)	Jan-18	
DAE4	SN 1331	19-Jan-17(CTTL-SPEAG,No.Z17-97015)	Jan-18	
DALA		10-041-17(0112-01 EA0,100.217-97010)	Jan-To	
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration	
Signal Generator E4438C	MY49071430	13-Jan-17 (CTTL, No.J17X00286)	Jan-18	
Network Analyzer E5071C	MY46110673	13-Jan-17 (CTTL, No.J17X00285)	Jan-18	
	Name	Function	Signat	
Calibrated by:	Name	a star we will be a star of star of star of the star	Signature	
Cambrated by.	Zhao Jing	SAR Test Engineer	128137	
Reviewed by:	Lin Hao	SAR Test Engineer	東北) 川	
Approved by:	Qi Dianyuan	SAR Project Leader	till in si	
This calibration certificate sh	all not be reprod	Issued: Augu uced except in full without written approval o		

Certificate No: Z17-97113

Page 1 of 8



 Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China

 Tel: +86-10-62304633-2079
 Fax: +86-10-62304633-2504

 E-mail: ettl@chinattl.com
 http://www.chinattl.cn

#### 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

#### Additional Documentation:

e) 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%.

Certificate No: Z17-97113

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Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2079 Fax: +86-10-62304633-2504 E-mail: cttl@chinattl.com http://www.chinattl.cn

#### **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.0.1446
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

α

#### **Head TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.7 ± 6 %	0.89 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	2.08 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	8.34 mW /g ± 18.8 % (k=2)
SAR averaged over 10 $cm^3$ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.36 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	5.45 mW /g ± 18.7 % (k=2)

#### **Body TSL parameters**

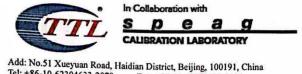
The following parameters and calculations were applied.

1	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.5	0.96 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.7 ± 6 %	0.95 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C		

#### SAR result with Body TSL

SAR averaged over 1 $cm^3$ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.18 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	8.78 mW /g ± 18.8 % (k=2)
SAR averaged over 10 $cm^3$ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	1.46 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	5.87 mW /g ±18.7 % (k=2)

Certificate No: Z17-97113



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## Appendix (Additional assessments outside the scope of CNAS L0570)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.5Ω- 2.95jΩ	
Return Loss	- 28.5dB	

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	47.5Ω- 5.53jΩ	
Return Loss	- 24.2dB	

#### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.140 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 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 feedpoint may be damaged.

#### **Additional EUT Data**

Tana a sa	enveloperation for
Manufactured by	SPEAG
	19 ALTER DE LA COMPANY

Certificate No: Z17-97113

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**DASY5 Validation Report for Head TSL** 

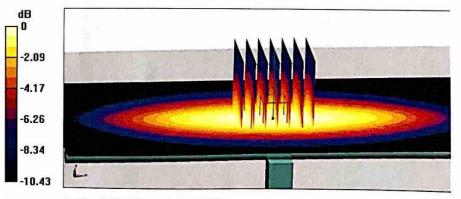
Date: 08.27.2017

Test Laboratory: CTTL, Beijing, China **DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1045** Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz;  $\sigma = 0.886$  S/m;  $\varepsilon_r = 41.66$ ;  $\rho = 1000$  kg/m<sup>3</sup> Phantom section: Left Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY5 Configuration:

- Probe: EX3DV4 SN3617; ConvF(10.05, 10.05, 10.05); Calibrated: 1/23/2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1331; Calibrated: 1/19/2017
- Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1
- Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

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

Reference Value = 54.59 V/m; Power Drift = -0.02 dBPeak SAR (extrapolated) = 3.20 W/kgSAR(1 g) = 2.08 W/kg; SAR(10 g) = 1.36 W/kgMaximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

Certificate No: Z17-97113

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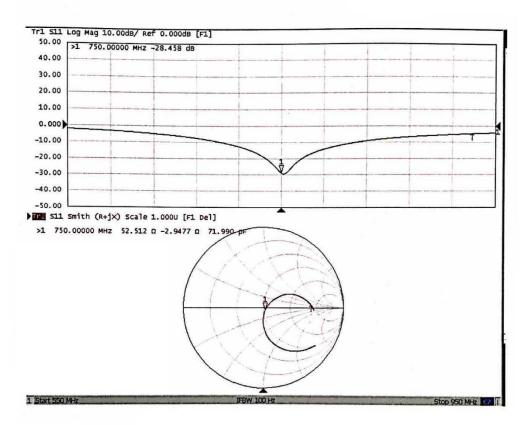


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## Impedance Measurement Plot for Head TSL



Certificate No: Z17-97113

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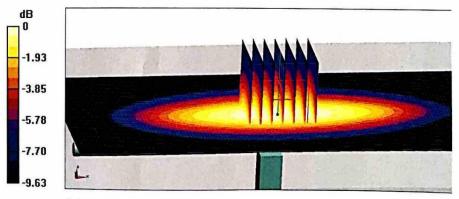
Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Fax: +86-10-62304633-2504 http://www.chinattl.cn

**DASY5 Validation Report for Body TSL** Date: 08.27.2017 Test Laboratory: CTTL, Beijing, China DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN: 1045 Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1 Medium parameters used: f = 750 MHz;  $\sigma = 0.952$  S/m;  $\varepsilon_r = 55.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> Phantom section: Right Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) **DASY5** Configuration: • Probe: EX3DV4 - SN3617; ConvF(9.8, 9.8, 9.8); Calibrated: 1/23/2017; . Sensor-Surface: 1.4mm (Mechanical Surface Detection) Electronics: DAE4 Sn1331; Calibrated: 1/19/2017 . Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1

Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10 (7417)

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

Reference Value = 54.33 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 3.23 W/kg SAR(1 g) = 2.18 W/kg; SAR(10 g) = 1.46 W/kg Maximum value of SAR (measured) = 2.88 W/kg



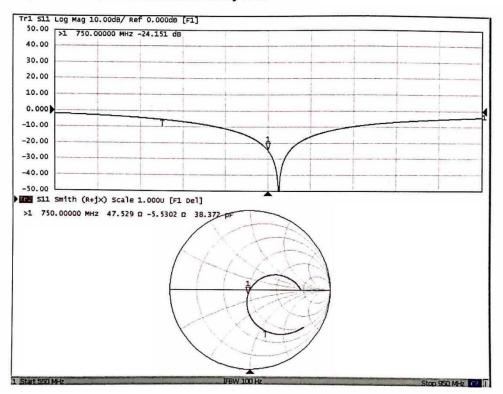
0 dB = 2.88 W/kg = 4.59 dBW/kg

Certificate No: Z17-97113

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## Impedance Measurement Plot for Body TSL



Certificate No: Z17-97113

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# ANNEX G: D835V2 Dipole Calibration Certificate

Tel: +86-10-62304 E-mail: cttl@china	an Road, Haidian Dis 533-2079 Fax: + ttl.com http://	rict, Beijing, 100191, China 86-10-62304633-2504 www.chinattl.cn	CALIBRATION CNAS L0570
STREET, STREET	Shanghai)	Certificate No:	Z17-97114
CALIBRATION C	ERTIFICAT		
Object	D835V	2 - SN: 4d020	
Calibration Procedure(s)		-003-01 tion Procedures for dipole validation kits	
Calibration date:	August	28, 2017	
measurements(SI). The me pages and are part of the ce	asurements and ertificate.	traceability to national standards, which the uncertainties with confidence proba- the closed laboratory facility: environr or calibration)	bility are given on the following
Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.	.) Scheduled Calibration
Power Meter NRVD	102083	22-Sep-16 (CTTL, No.J16X06809)	Sep-17
Power sensor NRV-Z5	100595	22-Sep-16 (CTTL, No.J16X06809)	Sep-17
Reference Probe EX3DV4	SN 3617	23-Jan-17(SPEAG,No.EX3-3617_Jan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
DAE4	SN 1331	19-Jan-17(CTTL-SPEAG,No.Z17-970	15) Jan-18
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No	b.) Scheduled Calibration
Signal Generator E4438C	MY49071430	13-Jan-17 (CTTL, No.J17X00286)	Jan-18
Network Analyzer E5071C	MY46110673	13-Jan-17 (CTTL, No.J17X00285)	Jan-18
	Name	Function	Signature
Calibrated by:	Zhao Jing	SAR Test Engineer	the second
Reviewed by:	Lin Hao	SAR Test Engineer	AR AG T
Approved by:	Qi Dianyuan	SAR Project Leader	
This calibration certificate sh	all not be reprod	Issued: A uced except in full without written appro	August 31, 2017

Certificate No: Z17-97114

Page 1 of 8



Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2079 E-mail: cttl@chinattl.com

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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013

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- b) IEC 62209-1, "Measurement procedure for assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices- Part 1: Device used next to the ear (Frequency range of 300MHz to 6GHz)", July 2016
- c) IEC 62209-2, "Procedure to measure the Specific Absorption Rate (SAR) For wireless communication devices used in close proximity to the human body (frequency range of 30MHz to 6GHz)", March 2010
- d) KDB865664, SAR Measurement Requirements for 100 MHz to 6 GHz

#### Additional Documentation:

e) 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%.

Certificate No: Z17-97114

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## **Measurement Conditions**

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	52.10.0.1446
Extrapolation	Advanced Extrapolation	
Phantom	Triple Flat Phantom 5.1C	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

g

#### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	41.2 ± 6 %	0.89 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	2.34 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	9.45 mW /g ± 18.8 % (k=2)
SAR averaged over 10 $cm^3$ (10 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.51 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	6.09 mW /g ± 18.7 % (k=2)

#### **Body TSL parameters**

The following parameters and calculations were applied.

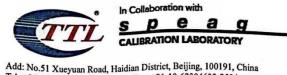
	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	55.6 ± 6 %	0.98 mho/m ± 6 %
Body TSL temperature change during test	<1.0 °C		

#### SAR result with Body TSL

SAR averaged over 1 $cm^3$ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.46 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	9.75 mW /g ± 18.8 % (k=2)
SAR averaged over 10 $cm^3$ (10 g) of Body TSL	Condition	
SAR measured	250 mW input power	1.63 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	6.47 mW /g ± 18.7 % (k=2)

Certificate No: Z17-97114

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#### Appendix (Additional assessments outside the scope of CNAS L0570)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	50.3Ω- 2.54jΩ
Return Loss	- 31.9dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	46.8Ω- 4.57jΩ	
Return Loss	- 24.8dB	

#### **General Antenna Parameters and Design**

Electrical Delay (one direction)	1.495 ns	
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

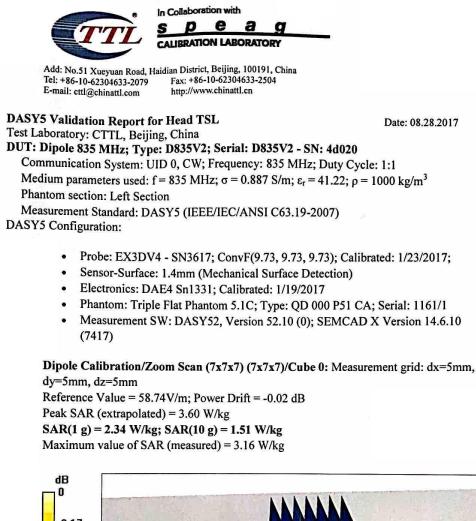
The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching 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 feedpoint may be damaged.

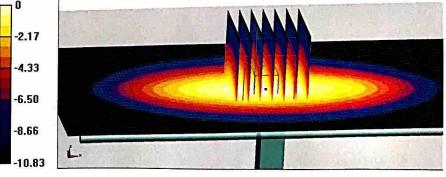
#### **Additional EUT Data**

Manufactured by	SPEAG
Manufactured by	OFEAG

Certificate No: Z17-97114

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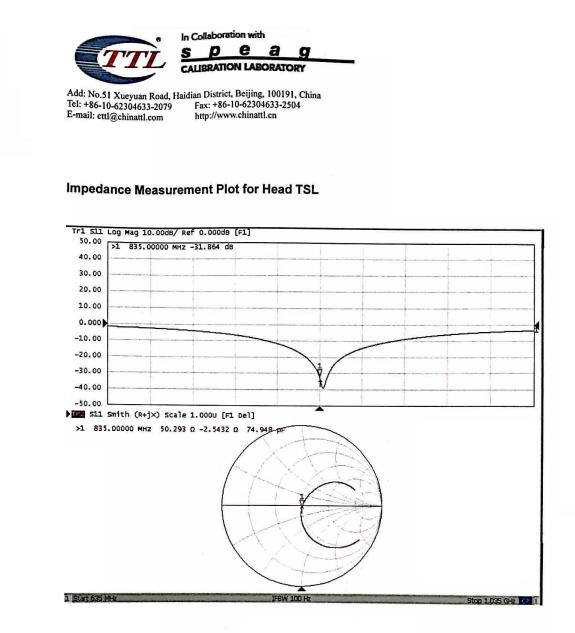




0 dB = 3.16 W/kg = 5.00 dBW/kg

Certificate No: Z17-97114

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## Certificate No: Z17-97114

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 Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China

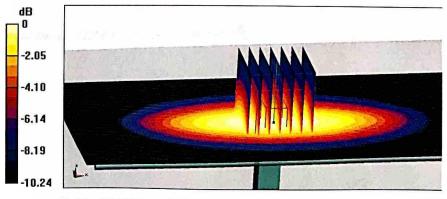
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 Fax: +86-10-62304633-2504

 E-mail: cttl@chinattl.com
 http://www.chinattl.cn

DASY5 Validation Report for Body TSLDate: 08.27.2017Test Laboratory: CTTL, Beijing, ChinaDUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d020Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1Medium parameters used: f = 835 MHz;  $\sigma = 0.984$  S/m;  $\varepsilon_r = 55.62$ ;  $\rho = 1000$  kg/m<sup>3</sup>Phantom section: Right SectionMeasurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)DASY5 Configuration:Probe: EX3DV4 - SN3617; ConvF(9.64,9.64, 9.64); Calibrated: 1/23/2017;Sensor-Surface: 1.4mm (Mechanical Surface Detection)Electronics: DAE4 Sn1331; Calibrated: 1/19/2017Phantom: Triple Flat Phantom 5.1C; Type: QD 000 P51 CA; Serial: 1161/1Measurement SW: DASY52, Version 52.10 (0); SEMCAD X Version 14.6.10<br/>(7417)

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

Reference Value = 56.55 V/m; Power Drift = 0.02 dBPeak SAR (extrapolated) = 3.71 W/kgSAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.63 W/kgMaximum value of SAR (measured) = 3.29 W/kg

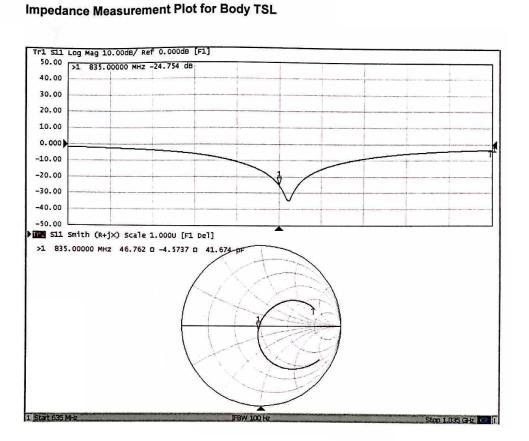


0 dB = 3.29 W/kg = 5.17 dBW/kg

Certificate No: Z17-97114

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Certificate No: Z17-97114

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# ANNEX H: D1750V2 Dipole Calibration Certificate

E-mail: cttl@chinat Client TA(Sh	anghai)	www.chinattl.cn Certificate No: Z20	0-60079
CALIBRATION CI	Call Contract of Contract	Charles and the second s	
Object	D1750	V2 - SN: 1033	
Calibration Procedure(s)			
		-003-01	
	Calibra	tion Procedures for dipole validation kits	
Calibration date:	Febura	ry 25, 2020	
		traceability to national standards, which rea	
pages and are part of the ce		the uncertainties with confidence probability	are given on the following
All calibrations have been	conducted in	the closed laboratory facility: environment	t temperature(22±3)°C and
humidity<70%.			war an anna a th' Constants anna anna an Arthur anna 2012 anna 2012 anna 2012 anna 2012 anna 2012 anna 2012 ann
Calibration Equipment used	(M&TE critical for	or calibration)	
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Primary Standards	ID #	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
		Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605)	Apr-20
Primary Standards Power Meter NRP2	ID # 106276 101369	Cal Date(Calibrated by, Certificate No.)	
Primary Standards Power Meter NRP2 Power sensor NRP6A	ID # 106276 101369	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605)	Apr-20 Apr-20
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4	ID # 106276 101369 SN 3846 SN 1555	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295)	Apr-20 Apr-20 Mar-20 Aug-20
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4	ID # 106276 101369 SN 3846	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.)	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards	ID # 106276 101369 SN 3846 SN 1555 ID #	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295)	Apr-20 Apr-20 Mar-20 Aug-20
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430 MY46110673	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516)	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C NetworkAnalyzer E5071C	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516)	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C NetworkAnalyzer E5071C	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430 MY46110673	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516) 10-Feb-20 (CTTL, No.J20X00515)	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21 Feb-21
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430 MY46110673 Name	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516) 10-Feb-20 (CTTL, No.J20X00515) Function	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21 Feb-21
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C NetworkAnalyzer E5071C Calibrated by: Reviewed by:	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430 MY46110673 Name Zhao Jing	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516) 10-Feb-20 (CTTL, No.J20X00515) Function SAR Test Engineer	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21 Feb-21
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C NetworkAnalyzer E5071C Calibrated by: Reviewed by:	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430 MY46110673 Name Zhao Jing Lin Hao	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516) 10-Feb-20 (CTTL, No.J20X00515) Function SAR Test Engineer SAR Test Engineer	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21 Feb-21 Signature
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C NetworkAnalyzer E5071C Calibrated by: Reviewed by: Approved by:	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430 MY46110673 Name Zhao Jing Lin Hao Qi Dianyuan	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516) 10-Feb-20 (CTTL, No.J20X00515) Function SAR Test Engineer SAR Test Engineer SAR Project Leader	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21 Feb-21 Signature
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C NetworkAnalyzer E5071C Calibrated by: Reviewed by: Approved by:	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430 MY46110673 Name Zhao Jing Lin Hao Qi Dianyuan	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516) 10-Feb-20 (CTTL, No.J20X00515) Function SAR Test Engineer SAR Test Engineer	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21 Feb-21 Signature
Primary Standards Power Meter NRP2 Power sensor NRP6A Reference Probe EX3DV4 DAE4 Secondary Standards Signal Generator E4438C NetworkAnalyzer E5071C Calibrated by: Reviewed by: Approved by:	ID # 106276 101369 SN 3846 SN 1555 ID # MY49071430 MY46110673 Name Zhao Jing Lin Hao Qi Dianyuan	Cal Date(Calibrated by, Certificate No.) 11-Apr-19 (CTTL, No.J19X02605) 11-Apr-19 (CTTL, No.J19X02605) 25-Mar-19(CTTL-SPEAG,No.Z19-60064) 22-Aug-19(CTTL-SPEAG,No.Z19-60295) Cal Date(Calibrated by, Certificate No.) 10-Feb-20 (CTTL, No.J20X00516) 10-Feb-20 (CTTL, No.J20X00515) Function SAR Test Engineer SAR Test Engineer SAR Project Leader	Apr-20 Apr-20 Mar-20 Aug-20 Scheduled Calibration Feb-21 Feb-21 Signature