

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

Calibration Factors	х	Y	z
High Range	403.654 ± 0.15% (k=2)	403.901 ± 0.15% (k=2)	404.177 ± 0.15% (k=2)
Low Range	3.98379 ± 0.7% (k=2)	3.96900 ± 0.7% (k=2)	3.99103 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	41.5° ± 1 °
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Client

SGS(Boce)

Certificate No: Z17-97271

CALIBRATION CERTIFICATE

Tel: +86-10-62304633-2218

E-mail: cttl@chinattl.com

Object EX3DV4 - SN:3962

Calibration Procedure(s)

FF-Z11-004-01

Calibration Procedures for Dosimetric E-field Probes

Calibration date:

January 11, 2018

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.

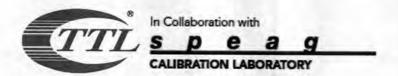
All calibrations have been conducted in the closed laboratory facility: environment temperature(22±3)°C and humidity<70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration		
Power Meter NRP2	101919	27-Jun-17 (CTTL, No.J17X05857)	Jun-18		
Power sensor NRP-Z91	101547	27-Jun-17 (CTTL, No.J17X05857)	Jun-18		
Power sensor NRP-Z91	101548	27-Jun-17 (CTTL, No.J17X05857)	Jun-18		
Reference10dBAttenuator	18N50W-10dB	13-Mar-16(CTTL,No.J16X01547)	Mar-18		
Reference20dBAttenuator	18N50W-20dB	13-Mar-16(CTTL, No.J16X01548)	Mar-18		
Reference Probe EX3DV4	SN 7464	12-Sep-17(SPEAG,No.EX3-7464_Sep17)	Sep-18		
DAE4	SN 1524	13-Sep-17(SPEAG, No.DAE4-1524_Sep17) Sep -18		
Secondary Standards ID #		Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration		
SignalGeneratorMG3700A		27-Jun-17 (CTTL, No.J17X05858)	Jun-18		
Network Analyzer E5071C	MY46110673	13-Jan-17 (CTTL, No.J17X00285)	Jan -18		
	Name	Function	Signature		
Calibrated by:	Yu Zongying	SAR Test Engineer	ATA S		
Reviewed by:	Lin Hao	SAR Test Engineer	AR 36		
Approved by:	Qi Dianyuan	SAR Project Leader	Don't		
		Issued: Januar	y 13, 2018		

Certificate No: Z17-97271

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



Glossary:

TSL tissue simulating liquid sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z
DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal A,B,C,D modulation dependent linearization parameters

Polarization Φ Φ rotation around probe axis

Polarization θ θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i

 θ =0 is normal to probe axis

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system 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 the assessment of Specific Absorption Rate (SAR) from hand-held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016

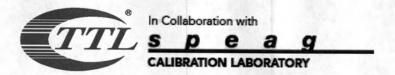
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization θ=0 (f≤900MHz in TEM-cell; f>1800MHz: waveguide).
 NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z* frequency_response (see Frequency Response Chart). This
 linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the
 frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax,y,z; Bx,y,z; Cx,y,z; VRx,y,z:A,B,C are numerical linearization parameters assessed based on the
 data of power sweep for specific modulation signal. The parameters do not depend on frequency nor
 media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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Probe EX3DV4

SN: 3962

Calibrated: January 11, 2018

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 3962

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
$Norm(\mu V/(V/m)^2)^A$	0.42	0.47	0.44	±10.0%
DCP(mV) ^B	100.3	102.5	94.3	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Unc ^E (k=2)	
0 C	CW	X	0.0	0.0	1.0	0.00	154.3	±2.5%	
			Y	0.0	0.0	1.0		162.9	
		Z	0.0	0.0	1.0		153.1		

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%.

^A The uncertainties of Norm X, Y, Z do not affect the E²-field uncertainty inside TSL (see Page 5 and Page 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 3962

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	41.9	0.89	10.19	10.19	10.19	0.40	0.75	±12.1%
835	41.5	0.90	9.96	9.96	9.96	0.16	1.25	±12.1%
1750	40.1	1.37	8.54	8.54	8.54	0.21	1.15	±12.1%
1900	40.0	1.40	8.26	8.26	8.26	0.26	1.00	±12.1%
2300	39.5	1.67	8.03	8.03	8.03	0.35	0.80	±12.1%
2450	39.2	1.80	7.62	7.62	7.62	0.41	0.88	±12.1%
2600	39.0	1.96	7.52	7.52	7.52	0.42	0.92	±12.1%
5250	35.9	4.71	5.68	5.68	5.68	0.35	1.55	±13.3%
5600	35.5	5.07	4.89	4.89	4.89	0.40	1.50	±13.3%
5750	35.4	5.22	5.05	5.05	5.05	0.40	1.60	±13.3%

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than \pm 1% for frequencies below 3 GHz and below \pm 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 3962

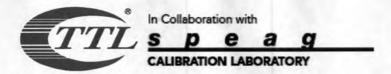
Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	55.5	0.96	10.37	10.37	10.37	0.40	0.85	±12.1%
835	55.2	0.97	9.98	9.98	9.98	0.17	1.43	±12.1%
1750	53.4	1.49	8.49	8.49	8.49	0.22	1.12	±12.1%
1900	53.3	1.52	8.09	8.09	8.09	0.20	1.17	±12.1%
2300	52.9	1.81	7.90	7.90	7.90	0.34	1.17	±12.1%
2450	52.7	1.95	7.78	7.78	7.78	0.34	1.25	±12.1%
2600	52.5	2.16	7.61	7.61	7.61	0.44	0.96	±12.1%
5250	48.9	5.36	5.22	5.22	5.22	0.45	1.45	±13.3%
5600	48.5	5.77	4.45	4.45	4.45	0.50	1.60	±13.3%
5750	48.3	5.94	4.59	4.59	4.59	0.50	1.45	±13.3%

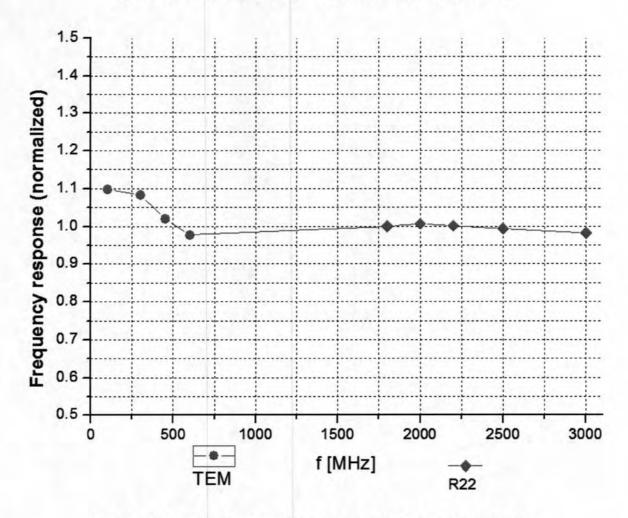
^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

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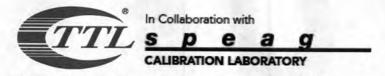
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Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



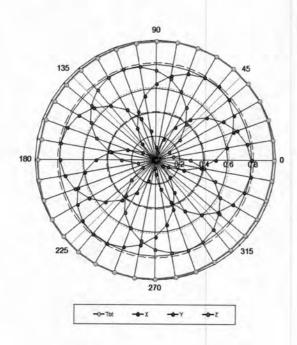
Uncertainty of Frequency Response of E-field: ±7.4% (k=2)

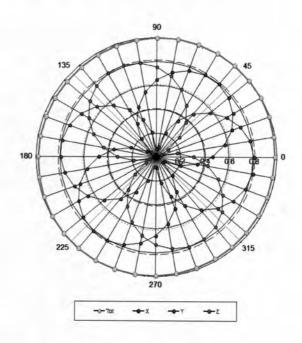


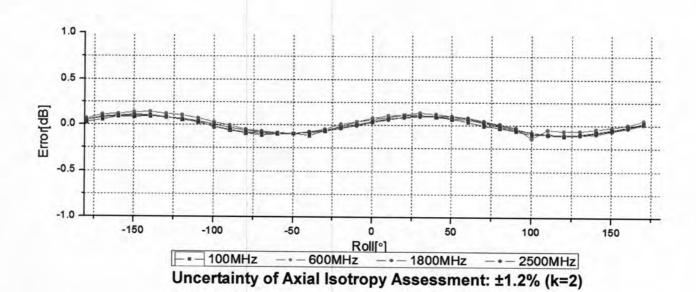
Receiving Pattern (Φ), θ=0°

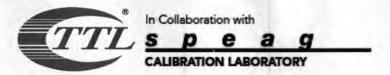
f=600 MHz, TEM

f=1800 MHz, R22

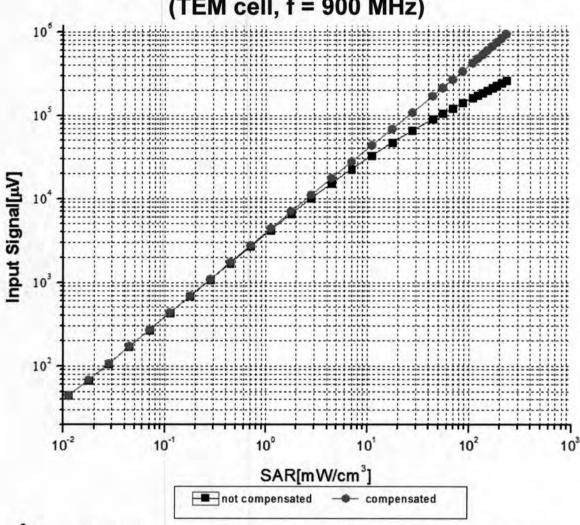


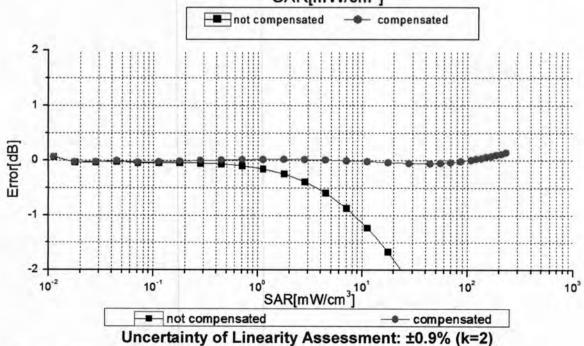




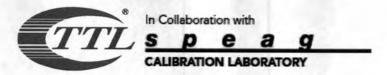


Dynamic Range f(SAR_{head}) (TEM cell, f = 900 MHz)





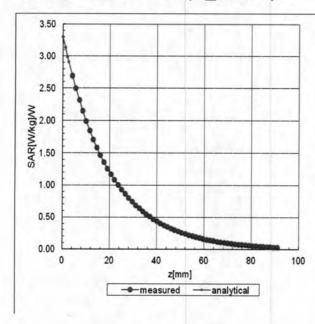
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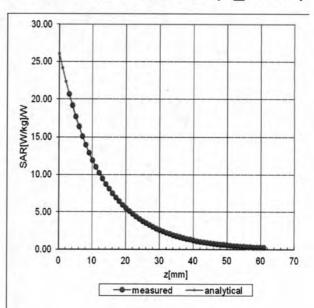


Conversion Factor Assessment

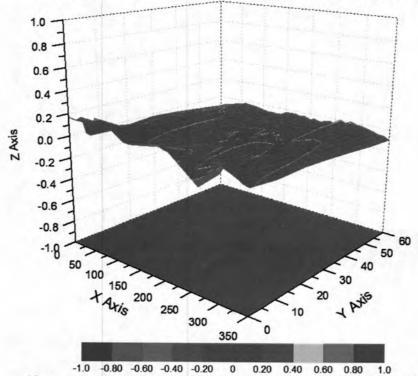
f=835 MHz, WGLS R9(H_convF)

f=1750 MHz, WGLS R22(H_convF)

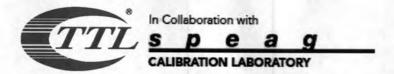




Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: ±3.2% (K=2)



DASY/EASY - Parameters of Probe: EX3DV4 - SN: 3962

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	152.2
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disable
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Probe Tip to Sensor X Calibration Point	1mm
Probe Tip to Sensor Y Calibration Point	1mm
Probe Tip to Sensor Z Calibration Point	1mm
Recommended Measurement Distance from Surface	1.4mm



Client

CTTL

Certificate No: Z17-97163

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:7433

Calibration Procedure(s)

FF-Z11-004-01

Calibration Procedures for Dosimetric E-field Probes

Calibration date:

September 30, 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%.

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Reference20dBAttenuator	18N50W-20dB	13-Mar-16(CTTL, No.J16X01548)	Mar-18
Reference Probe EX3DV4	SN 3617	23-Jan-17(SPEAG,No.EX3-3617_Jan17)	Jan-18
DAE4	SN 549	13-Dec-16(SPEAG, No.DAE4-549_Dec16)	Dec -17
Secondary Standards	ID#	Cal Date(Calibrated by, Certificate No.)	Scheduled Calibration
SignalGeneratorMG3700A	6201052605	27-Jun-17 (CTTL, No.J17X05858)	Jun-18
Network Analyzer E5071C	MY46110673	13-Jan-17 (CTTL, No.J17X00285)	Jan -18
	Name	Function	Signature
Calibrated by:	Yu Zongying	SAR Test Engineer	day
Reviewed by:	Lin Hao	SAR Test Engineer	林光
Approved by:	Qi Dianyuan	SAR Project Leader	The second

Issued: October 02, 2017

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Glossary:

TSL tissue simulating liquid

NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z

DCP diode compression point

CF crest factor (1/duty_cycle) of the RF signal modulation dependent linearization parameters

Polarization Φ rotation around probe axis

Polarization θ θ rotation around an axis that is in the plane normal to probe axis (at measurement center), i

 θ =0 is normal to probe axis

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- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics.
- Ax,y,z; Bx,y,z; Cx,y,z; VRx,y,z:A,B,C are numerical linearization parameters assessed based on the
 data of power sweep for specific modulation signal. The parameters do not depend on frequency nor
 media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f≤800MHz) and inside waveguide using analytical field distributions based on power measurements for f >800MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty valued are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from±50MHz to±100MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

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Probe EX3DV4

SN: 7433

Calibrated: September 30, 2017

Calibrated for DASY/EASY Systems

(Note: non-compatible with DASY2 system!)

Certificate No: Z17-97163 Page 3 of 11

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 7433

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm(µV/(V/m) ²) ^A	0.63	0.58	0.62	±10.0%
DCP(mV) ^B	97.7	97.4	97.5	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Unc ^E (k=2)	
0 CW	CW	X	0.0	0.0	1.0	0.00	207.0	±2.0%	
			Υ	0.0	0.0	1.0		198.6	
		Z	0.0	0.0	1.0		206.0		

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: Z17-97163

^A The uncertainties of Norm X, Y, Z do not affect the E^2 -field uncertainty inside TSL (see Page 5 and Page 6). ^B Numerical linearization parameter: uncertainty not required.

^E Uncertainly is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 7433

Calibration Parameter Determined in Head Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF X ConvF Y ConvF Z		Alpha ^G	Depth ^G (mm)	Unct. (k=2)																				
750	41.9	0.89	9.77	9.77	9.77	0.30	0.85	±12.1%																				
900	41.5	0.97	9.42	9.42	9.42	0.16	1.32	±12.1%																				
1750	40.1	1.37	7.97	7.97	7.97	0.24	1.05	±12.1%																				
1900	40.0	1.40	7.71	7.71	7.71	0.25	0.99	±12.1%																				
2000	40.0	1.40	7.69	7.69	7.69	0.16	1.31	±12.1%																				
2300	39.5	1.67	7.58	7.58	7.58	0.59	0.67	±12.1%																				
2450	39.2	1.80	7.34	7.34	7.34	0.28	1.32	±12.1%																				
2600	39.0	1.96	6.97	6.97	6.97	0.66	0.67	±12.1%																				
3500	37.9	2.91	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86	0.43	1.08	±13.3%
5200	36.0	4.66	5.55	5.55	5.55	0.40	1.30	±13.3%																				
5300	35.9	4.76	5.28	5.28	5.28	0.40	1.35	±13.3%																				
5500	35.6	4.96	4.83	4.83	4.83	0.40	1.35	±13.3%																				
5600	35.5	5.07	4.56	4.56	4.56	0.40	1.50	±13.3%																				
5800	35.3	5.27	4.66	4.66	4.66	0.40	1.50	±13.3%																				

^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than \pm 1% for frequencies below 3 GHz and below \pm 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 7433

Calibration Parameter Determined in Body Tissue Simulating Media

f [MHz] ^C	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unct. (k=2)
750	55.5	0.96	9.68	9.68	9.68	0.30	0.95	±12.1%
900	55.0	1.05	9.34	9.34	9.34	0.23	1.17	±12.1%
1750	53.4	1.49	7.81	7.81	7.81	0.23	1.06	±12.1%
1900	53.3	1.52	7.67	7.67	7.67	0.16	1.80	±12.1%
2000	53.3	1.52	7.65	7.65	7.65	0.19	1.22	±12.1%
2300	52.9	1.81	7.40	7.40	7.40	0.55	0.78	±12.1%
2450	52.7	1.95	7.23	7.23	7.23	0.37	1.11	±12.1%
2600	52.5	2.16	6.97	6.97	6.97	0.51	0.82	±12.1%
3500	51.3	3.31	6.35	6.35	6.35	0.57	0.91	±13.3%
5200	49.0	5.30	4.94	4.94	4.94	0.45	1.50	±13.3%
5300	48.9	5.42	4.57	4.57	4.57	0.45	1.50	±13.3%
5500	48.6	5.65	4.23	4.23	4.23	0.50	1.65	±13.3%
5600	48.5	5.77	4.03	4.03	4.03	0.50	1.70	±13.3%
5800	48.2	6.00	4.05	4.05	4.05	0.55	1.65	±13.3%

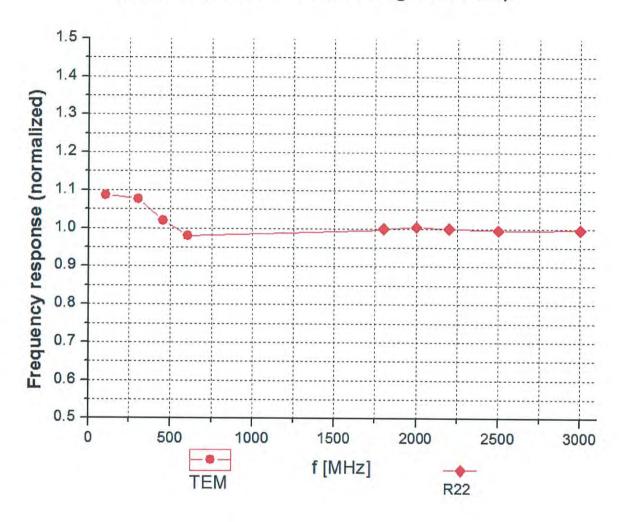
^c Frequency validity above 300 MHz of ±100MHz only applies for DASY v4.4 and higher (Page 2), else it is restricted to ±50MHz. The uncertainty is the RSS of ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F At frequency below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ±5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than \pm 1% for frequencies below 3 GHz and below \pm 2% for the frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



Frequency Response of E-Field (TEM-Cell: ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ±7.4% (k=2)

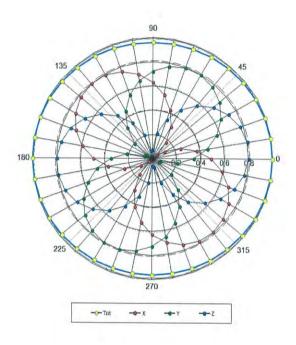
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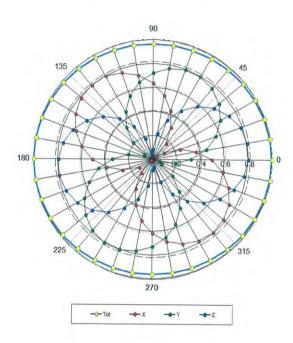


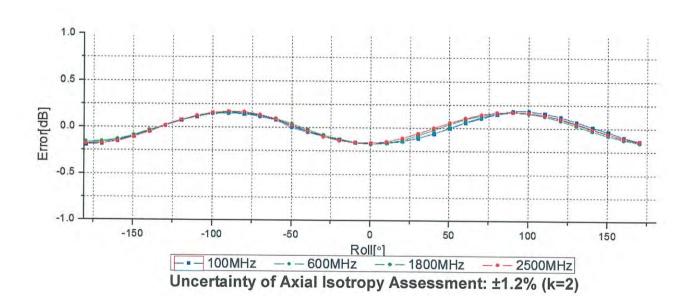
Receiving Pattern (Φ), θ=0°

f=600 MHz, TEM

f=1800 MHz, R22

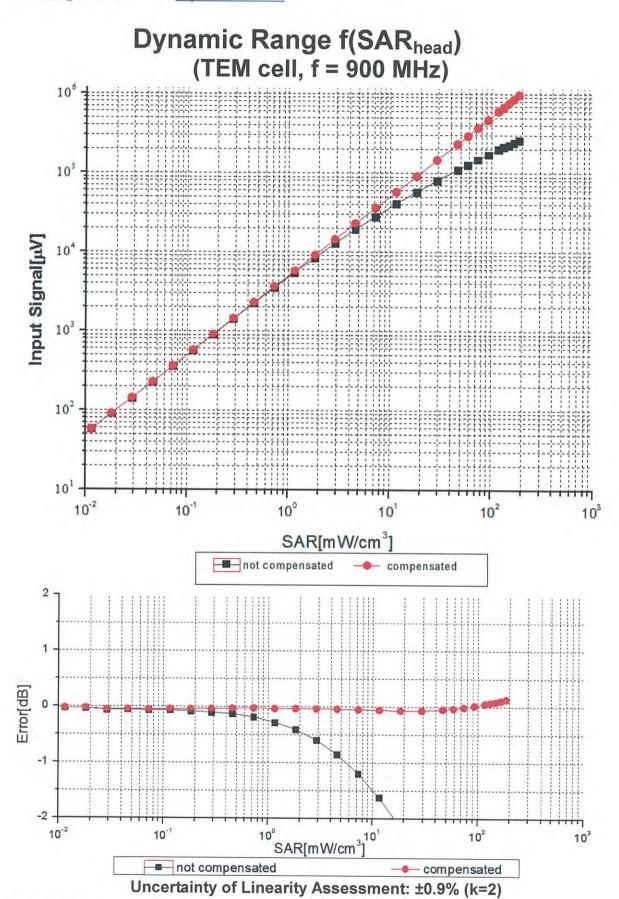






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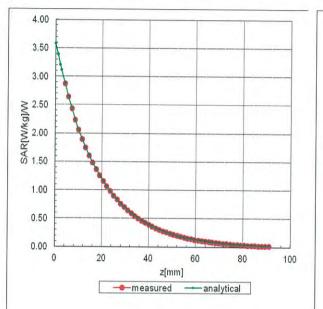
Add: No.51 Xueyuan Road, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2218 Fax: +86-10-62304633-2209

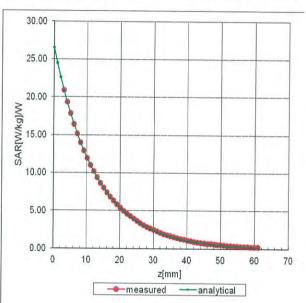
E-mail: cttl@chinattl.com Http://www.chinattl.cn

Conversion Factor Assessment

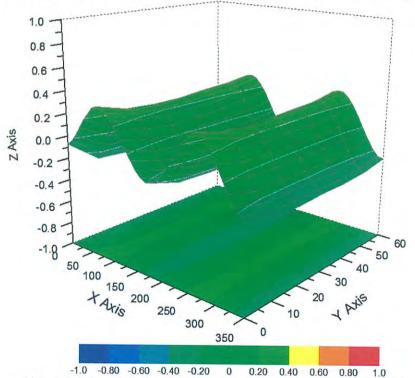
f=900 MHz, WGLS R9(H_convF)

f=1750 MHz, WGLS R22(H_convF)





Deviation from Isotropy in Liquid



Uncertainty of Spherical Isotropy Assessment: ±3.2% (K=2)



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 E-mail: cttl@chinattl.com
 <u>Http://www.chinattl.cn</u>

DASY/EASY - Parameters of Probe: EX3DV4 - SN: 7433

Other Probe Parameters

Sensor Arrangement	Triangular		
Connector Angle (°)	106.1		
Mechanical Surface Detection Mode	enabled		
Optical Surface Detection Mode	disable		
Probe Overall Length	337mm		
Probe Body Diameter	10mm		
Tip Length	9mm		
Tip Diameter	2.5mm		
Probe Tip to Sensor X Calibration Point	1mm		
Probe Tip to Sensor Y Calibration Point	1mm		
Probe Tip to Sensor Z Calibration Point	1mm		
Recommended Measurement Distance from Surface	1.4mm		

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Appendix D

Photographs

- 1. SAR measurement System
- 2. Photographs of Tissue Simulate Liquid
- 3. Photographs of EUT test position
- 4. EUT Constructional Details



1. SAR measurement System

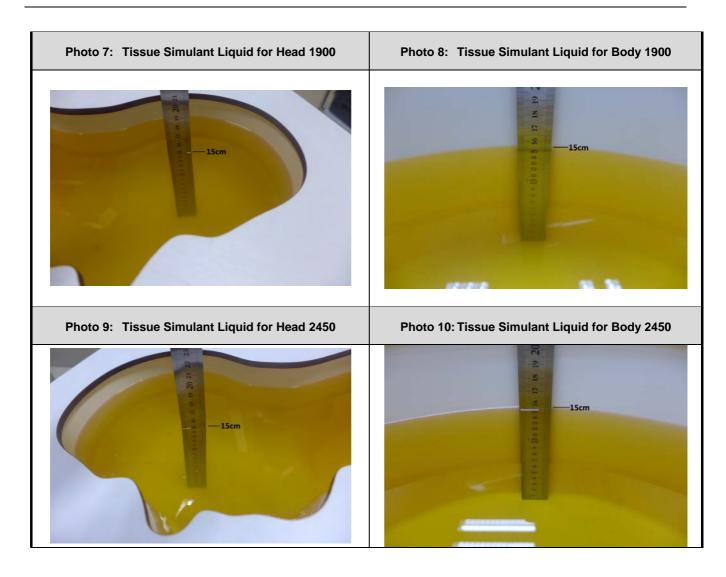




2. Photographs of Tissue Simulate Liquid Photo 1: Tissue Simulant Liquid for Head 750 Photo 2: Tissue Simulant Liquid for Body 750 18 19 20 21 15cm Photo 3: Tissue Simulant Liquid for Head 835 Photo 4: Tissue Simulant Liquid for Body 835 15cm Photo 5: Tissue Simulant Liquid for Head 1750 Photo 6: Tissue Simulant Liquid for Body 1750











3. Photographs of EUT test position Photo 11: Left touch cheek Photo 12: Left tilted 15 degree Photo 14: Right tilted 15 degree Photo 13: Right touch cheek Photo 15: Front Side 15mm Photo 16: Back side 15mm





Photo 17: Front Side 10mm Photo 18: Back side 10mm Photo 19: Left Side 10mm Photo 20: Right side 10mm Photo 21: Top Side 10mm Photo 22: Bottom side 10mm



4. EUT Constructional Details

