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 following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
  - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
  - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
  - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
  - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
  - *Input Offset Measurement*: Output voltage and statistical results over a large number of zero voltage measurements.
  - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
  - *Input resistance:* Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
  - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
  - *Power consumption:* Typical value for information. Supply currents in various operating modes.

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range:	1LSB =	6.1μV ,	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	X	Y	Z
High Range	405.675 ± 0.02% (k=2)	405.136 ± 0.02% (k=2)	405.864 ± 0.02% (k=2)
Low Range	3.99082 ± 1.50% (k=2)	3.98463 ± 1.50% (k=2)	4.00488 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	288.0 ° ± 1 °

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	200031.28	-3.06	-0.00
Channel X	+ Input	20005.68	-0.04	-0.00
Channel X	- Input	-20004.09	1.84	-0.01
Channel Y	+ Input	200033.79	-0.38	-0.00
Channel Y	+ Input	20002.87	-2.63	-0.01
Channel Y	- Input	-20006.01	0.15	-0.00
Channel Z	+ Input	200032.90	-1.07	-0.00
Channel Z	+ Input	20004.86	-0.55	-0.00
Channel Z	- Input	-20006.30	-0.11	0.00

Low Range		Reading (μV)	Difference (μV)	Error (%)
Channel X	+ Input	2001.60	0.47	0.02
Channel X	+ Input	201.73	0.56	0.28
Channel X	- Input	-198.40	0.39	-0.19
Channel Y	+ Input	2000.64	-0.39	-0.02
Channel Y	+ Input	199.50	-1.49	-0.74
Channel Y	- Input	-199.38	-0.51	0.26
Channel Z	+ Input	2000.88	-0.19	-0.01
Channel Z	+ Input	200.90	-0.10	-0.05
Channel Z	- Input	-199.97	-1.11	0.56

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	23.44	22.25
	- 200	-21.50	-23.06
Channel Y	200	-1.66	-1.92
	- 200	0.10	-0.23
Channel Z	200	5.52	5.44
	- 200	-11.23	-11.03

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	2.88	-2.88
Channel Y	200	8.93	-	3.93
Channel Z	200	9.91	6.76	-

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The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 0108

Client Sporton

Certificate No: EX3-3843_Sep20

CALIBRATION CERTIFICATE

Object: EX3DV4 - SN:3843

Calibration procedure(s): QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7
Calibration procedure for dosimetric E-field probes

Calibration date: September 23, 2020

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 (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/03101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
Reference 20 dB Attenuator	SN: CC2552 (20x)	31-Mar-20 (No. 217-03106)	Apr-21
DAE4	SN: 660	27-Dec-19 (No. DAE4-660_Dec19)	Dec-20
Reference Probe ES3DV2	SN: 3013	31-Dec-19 (No. ES3-3013_Dec19)	Dec-20
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20

	Name	Function	Signature
Calibrated by:	MIchael Weber	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: September 30, 2020

Calibration Laboratory of
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Accreditation No.: SCS 0108

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
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.e., 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 ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-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 with CW signal (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; Dx,y,z; VRx,y,z: A, B, C, D* 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 ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values 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 ± 50 MHz to ± 100 MHz.
- *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).

September 23, 2020

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3843

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.34	0.36	0.26	± 10.1 %
DCP (mV)[B]	110.3	104.4	106.5	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Max dev.	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	187.4	± 2.2 %	± 4.7 %
		Y	0.0	0.0	1.0		173.2		
		Z	0.0	0.0	1.0		179.7		

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 E^2-field uncertainty inside TSL (see Page 5).
[B] Numerical linearization parameter: uncertainty not required.
[E] Uncertainty 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:3843

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	146.7
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an *Area Scan* job.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3843

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)	Unc (k=2)
750	41.9	0.89	9.06	9.06	9.06	0.36	1.11	± 12.0 %
835	41.5	0.90	8.69	8.69	8.69	0.35	1.01	± 12.0 %
900	41.5	0.97	8.62	8.62	8.62	0.41	0.96	± 12.0 %
1450	40.5	1.20	7.82	7.82	7.82	0.47	0.80	± 12.0 %
1750	40.1	1.37	7.72	7.72	7.72	0.30	0.88	± 12.0 %
1900	40.0	1.40	7.41	7.41	7.41	0.27	0.88	± 12.0 %
2000	40.0	1.40	7.39	7.39	7.39	0.32	0.88	± 12.0 %
2300	39.5	1.67	7.06	7.06	7.06	0.28	0.90	± 12.0 %
2450	39.2	1.80	6.85	6.85	6.85	0.21	0.90	± 12.0 %
2600	39.0	1.96	6.76	6.76	6.76	0.41	0.90	± 12.0 %
5250	35.9	4.71	4.66	4.66	4.66	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.30	4.30	4.30	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.35	4.35	4.35	0.40	1.80	± 13.1 %

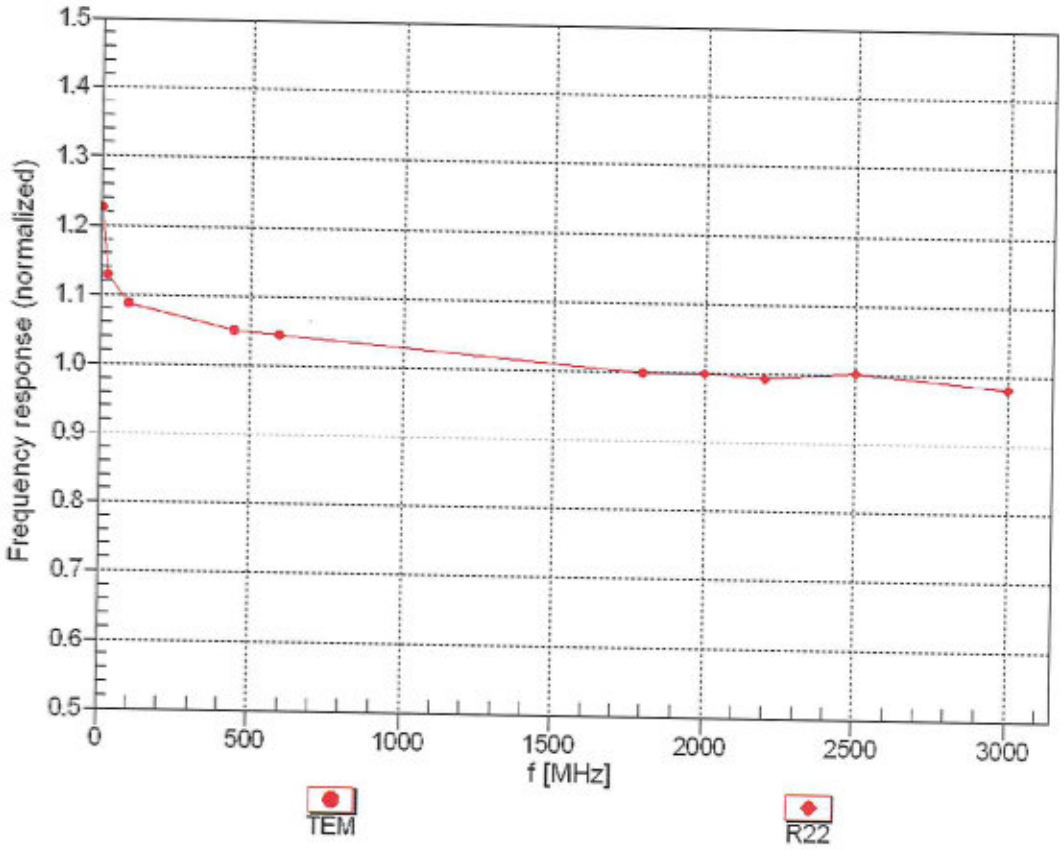
[C] Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

[F] At frequencies 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 ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

Frequency Response of E-Field

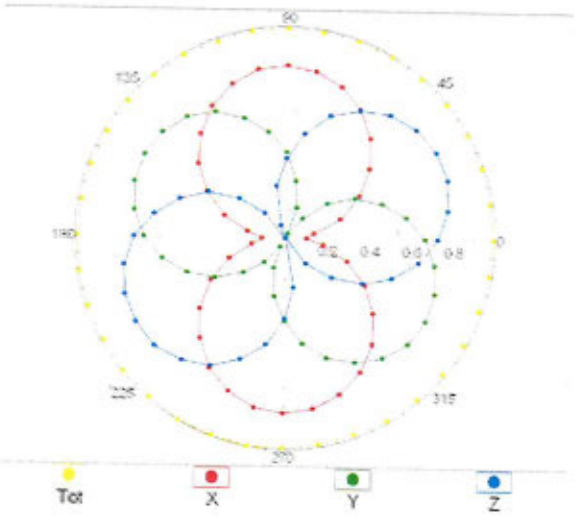
(TEM-Cell:ifi110 EXX, Waveguide: R22)



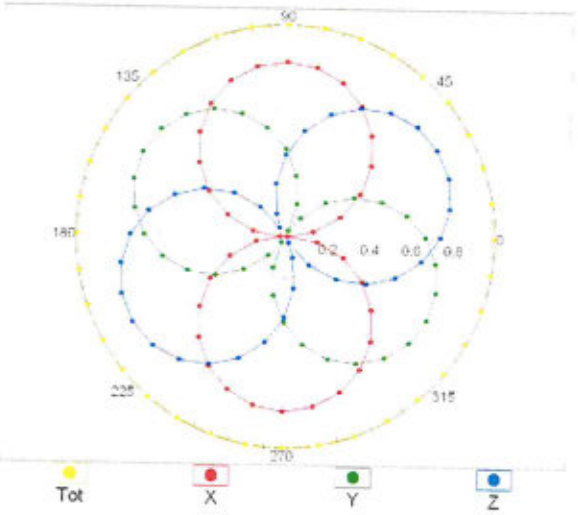
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

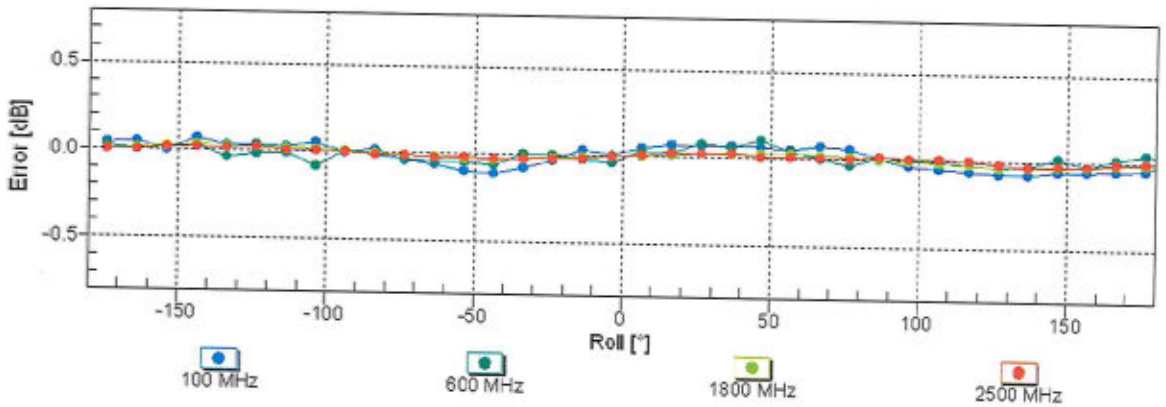
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



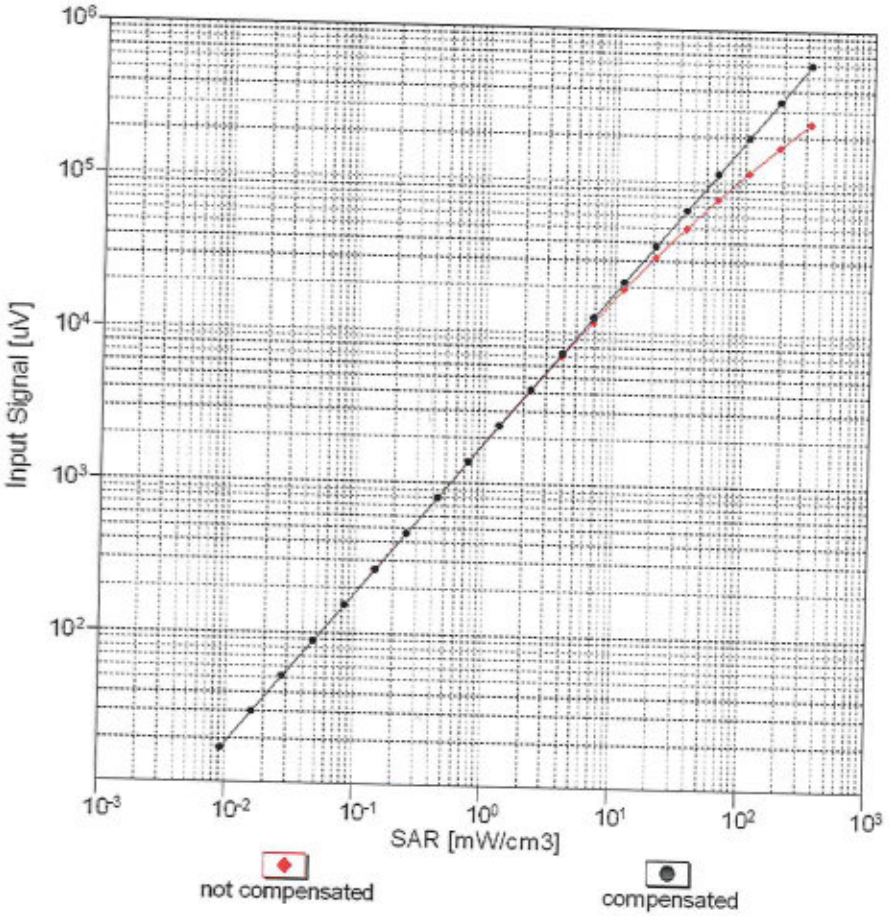
f=1800 MHz,R22

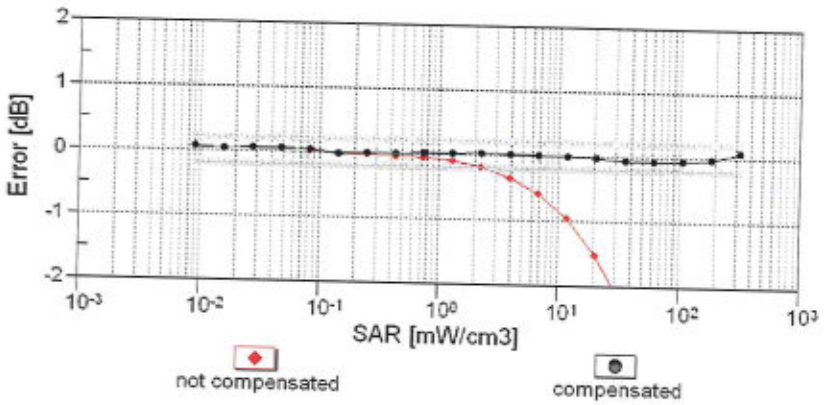




Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

Dynamic Range f(SAR_{head})
(TEM cell , f_{eval}= 1900 MHz)

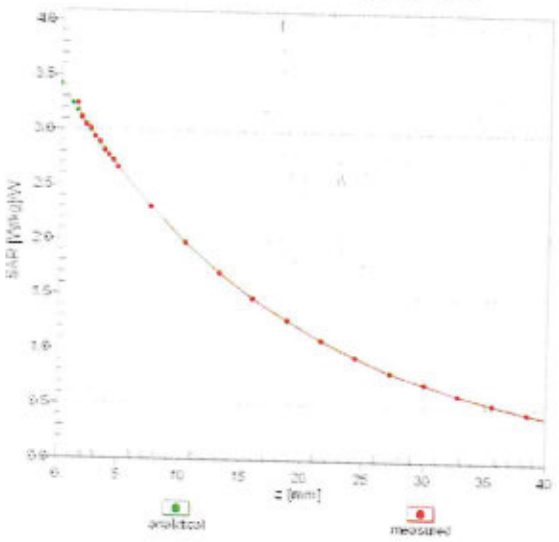




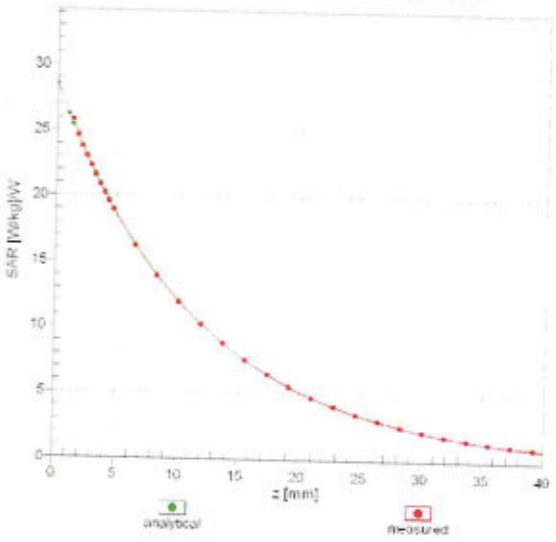
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment

f = 835 MHz,WGLS R9 (H_convF)

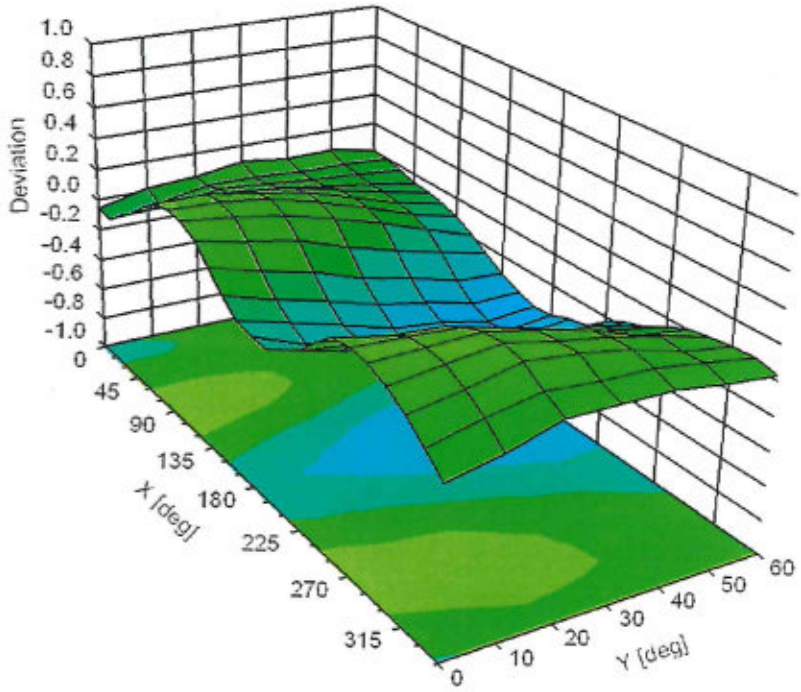


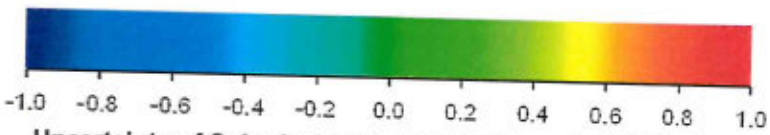
f = 1900 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz





Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Appendix E. Conducted RF Output Power Table

The detailed power tables are shown as follows.

WLAN/Bluetooeh Power

2.4GHz WLAN Ant 1+2				Full Power		Reduced Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	1	2412	22.43	23.50	17.42	18.00	99.31
		6	2437	22.49	23.50	17.77	18.00	
		11	2462	22.21	23.50	17.51	18.00	
	802.11g 6Mbps	1	2412	17.28	18.00	Not required	18.00	96.98
		2	2417	18.18	19.00		18.00	
		3	2422	19.72	20.50		18.00	
		6	2437	21.61	22.50		18.00	
		8	2447	19.51	20.50		18.00	
		9	2452	18.56	19.50		18.00	
		10	2457	17.47	19.00		18.00	
		11	2462	18.37	19.00		18.00	
	802.11n-HT20 MCS0	1	2412	16.30	17.00		17.00	96.77
		2	2417	17.63	18.50		18.00	
		3	2422	19.07	20.00		18.00	
		6	2437	20.52	21.50		18.00	
		9	2452	17.99	19.00		18.00	
		10	2457	17.49	19.00		18.00	
		11	2462	17.65	19.00		18.00	
	802.11n-HT40 MCS0	3	2422	13.49	14.50		14.50	93.73
		4	2427	14.49	15.50		15.50	
		6	2437	16.74	17.50		17.50	
		8	2447	14.87	16.00		16.00	
		9	2452	11.44	12.50		12.50	

5.2GHz WLAN Ant 1+2				Full Power		Reduced Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	18.40	19.00	Not required	10.50	97.39
		40	5200	20.60	21.00		10.50	
		44	5220	20.54	21.00		10.50	
		48	5240	20.52	21.00		10.50	
	802.11n-HT20 MCS0	36	5180	18.34	19.00		10.50	97.22
		40	5200	19.63	20.00		10.50	
		44	5220	19.63	20.00		10.50	
		48	5240	19.62	20.00		10.50	
	802.11n-HT40 MCS0	38	5190	15.51	16.00		10.50	93.97
		46	5230	19.69	20.00		10.50	
	802.11ac-VHT20 MCS0	36	5180	18.30	19.00		10.50	96.73
		40	5200	19.59	20.00		10.50	
		44	5220	19.59	20.00		10.50	
		48	5240	19.60	20.00		10.50	
	802.11ac-VHT40 MCS0	38	5190	15.48	16.50		10.50	93.57
		46	5230	19.68	20.00		10.50	
	802.11ac-VHT80 MCS0	42	5210	12.51	13.00	10.43	10.50	87.84

5.3GHz WLAN Ant 1+2				Full Power		Reduced Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	20.58	21.00	Not required	10.50	97.39
		56	5280	20.54	21.00		10.50	
		60	5300	20.54	21.00		10.50	
		64	5320	18.92	19.50		10.50	
	802.11n-HT20 MCS0	52	5260	19.55	20.00		10.50	97.22
		56	5280	19.66	20.00		10.50	
		60	5300	19.62	20.00		10.50	
		64	5320	18.85	19.50		10.50	
	802.11n-HT40 MCS0	54	5270	19.66	20.00		10.50	93.97
		62	5310	16.35	17.00		10.50	
	802.11ac-VHT20 MCS0	52	5260	19.52	20.00		10.50	96.71
		56	5280	19.61	20.00		10.50	
		60	5300	19.57	20.00		10.50	
		64	5320	18.76	19.50		10.50	
	802.11ac-VHT40 MCS0	54	5270	19.63	20.00		10.50	93.57
		62	5310	16.28	17.00		10.50	
	802.11ac-VHT80 MCS0	58	5290	12.47	13.00	10.40	10.50	87.84

5.5GHz WLAN Ant 1+2				Full Power		Reduced Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	100	5500	18.54	19.00	Not required	12.50	97.39
		116	5580	20.73	21.00		12.50	
		124	5620	20.68	21.00		12.50	
		132	5660	20.72	21.00		12.50	
		140	5700	18.50	19.00		12.50	
		144	5720	20.70	21.00		12.50	
	802.11n-HT20 MCS0	100	5500	18.55	19.00		12.50	97.22
		116	5580	19.74	20.50		12.50	
		124	5620	19.76	20.50		12.50	
		132	5660	19.79	20.50		12.50	
		140	5700	16.95	17.50		12.50	
		144	5720	19.78	20.50		12.50	
	802.11n-HT40 MCS0	102	5510	17.49	18.00		12.50	93.97
		110	5550	19.84	20.50		12.50	
		126	5630	19.86	20.50		12.50	
		134	5670	19.98	20.50		12.50	
		142	5710	19.85	20.50		12.50	
	802.11ac-VHT20 MCS0	100	5500	18.46	19.50		12.50	96.73
		116	5580	19.71	20.50		12.50	
		124	5620	19.73	20.50		12.50	
		132	5660	19.75	20.50		12.50	
		140	5700	16.91	18.00		12.50	
		144	5720	19.73	20.50		12.50	
	802.11ac-VHT40 MCS0	102	5510	17.43	18.50		12.50	93.57
		110	5550	19.81	20.50		12.50	
		126	5630	19.84	20.50		12.50	
		134	5670	19.90	20.50		12.50	
		142	5710	19.84	20.50		12.50	
	802.11ac-VHT80 MCS0	106	5530	12.50	13.00	12.05	12.50	87.84
		122	5610	19.68	20.50	11.98	12.50	
		138	5690	19.67	20.50	12.16	12.50	

5.8GHz WLAN Ant 1+2				Full Power		Reduced Power		
	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.8GHz WLAN	802.11a 6Mbps	149	5745	20.76	21.00	Not required	14.50	97.39
		157	5785	20.77	21.00		14.50	
		165	5825	20.72	21.00		14.50	
	802.11n-HT20 MCS0	149	5745	19.84	20.50		14.50	97.22
		157	5785	19.82	20.50		14.50	
		165	5825	19.87	20.50		14.50	
	802.11n-HT40 MCS0	151	5755	19.95	20.50		14.50	93.97
		159	5795	19.93	20.50		14.50	
	802.11ac-VHT20 MCS0	149	5745	19.80	20.50		14.50	96.73
		157	5785	19.78	20.50		14.50	
		165	5825	19.82	20.50		14.50	
	802.11ac-VHT40 MCS0	151	5755	19.94	20.50		14.50	93.57
		159	5795	19.90	20.50		14.50	
	802.11ac-VHT80 MCS0	155	5775	19.74	20.50	14.40	14.50	87.84

BT BR/EDR

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.87	7.99	8.10
	CH 39	2441	7.77	8.06	8.07
	CH 78	2480	7.74	7.88	7.98
Tune-up Limit			9.00	9.00	9.00

BT LE

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	3.65
	CH 19	2440	3.71
	CH 39	2480	3.63
Tune-up Limit			5.00

BT LE V5.0

Mode	Channel	Frequency (MHz)	Average power (dBm)
LE	CH 00	2402	3.63
	CH 19	2440	3.68
	CH 39	2480	3.66
Tune-up Limit			5.00