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LD/SEMC/BGGI/NM *Hamid Kami Shirazi*

Approved

LD/SEMC/BGGi/NM *Ramadan Plicanic*

Checked

050614

Company Internal
REPORT

No.

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Date

050609

Rev

A

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Report issued by Accredited SAR Laboratory**For****PY7A1021062****Date of test:** 06 and 07 June, 2005**Laboratory:** Sony Ericsson SAR Test Laboratory
Sonyericsson Mobile Communications AB
Nya Vattentornet
SE-221 82 LUND, Sweden**Testing Engineer:** *Hamid Kami Shirazi*
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+4646232644**Testing Approval** *Ramadan Plicanic*
Ramadan.Plicanic@sonyericsson.com
+46 46 193 862**Statement of Compliance**

Sony Ericsson Mobile Communications AB declares under its sole responsibility that the product

Sony Ericsson Type AAB-1021062-BV; FCC ID:PY7A1021062;IC:4170B-A1021062

to which this declaration relates, is in conformity with the appropriate RF exposure standards recommendations and guidelines. It also declares that the product was tested in accordance with the appropriate measurement standards, guidelines and recommended practices. Any deviations from these standards, guidelines and recommended practices are noted below:

(None)

This laboratory is accredited to ISO/IEC 17025 (SWEDAC accreditation no. 1847).



Laboratories are accredited by the Swedish Board for Accreditation and Conformity Assessment (SWEDAC) under the terms of Swedish legislation. The accredited laboratory activities meet the requirements in SS-EN ISO/IEC 17025 (2000). This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

The results and statements contained herein relate only to the items tested. The names of individuals involved may be mentioned only in connection with the statements or results from this report.

Sony Ericsson encourages all feedback, both positive and negative, on this report.
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2 Introduction

In this test report, compliance of the Sony Ericsson PY7A1021062 portable telephone with RF safety guidelines is demonstrated. The applicable RF safety guidelines and the SAR measurement specifications used for the test are described in the *SAR Measurement Specifications of Wireless Handsets* [1].

3 Device under Test

3.1 Antenna Description

Type	Build in	
Location	Up on the back side	
Dimensions	Max length	32mm
	Max width	20mm
Configuration	PIFA	

3.2 Device description

Device model	PY7A1021062
Serial number	TP810200N1
Mode	GSM1900
Multiple Access Scheme	TDMA
Maximum Output Power Setting	30.1dBm
Factory Tolerance in Power Setting	±0.5dBm
Crest Factor	8
Transmitting Frequency Range(MHz)	1850.2 – 1909.8
Prototype or Production Unit	Preproduction
Device Category	Portable
RF exposure environment	General population / uncontrolled



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4 Test equipment

4.1 Dosimetric system

SAR measurements were made using the DASY3 professional system (software version 3.1c) with SAM twin phantom, manufactured by Schmid & Partner Engineering AG (SPEAG). The list of calibrated equipment is given below.

Description	Serial Number	Due Date
DASY3 DAE V1	433	032006
E-field probe ETDV6	1582	032006
Dipole Validation Kit, D1900V2	5d002	032007

4.2 Additional equipment

Description	Inventory Number	Due Date
Signal generator ESG-D4000A	INV 462935	112006
Directional coupler HP778D	INV 2903	012006
Power meter R&S NRVD	INV 483920	012006
Power sensor R&S NRV-Z5	INV 2333	012006
Power sensor R&S NRV-Z5	INV 2334	012006
Termination 65N50-0-11	INV 2903	012006
Network analyzer HP8753C	INV421671	092005
S-parameter test set HP85047A	INV 421670	092005
Dielectric probe kit HP8507D	INV 20000053	012006
CMU200	Ser 833870/062	032006

5 Electrical parameters on the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity, ϵ_r , and the conductivity, S , of the tissue simulating liquids were measured with the dielectric probe kit. These values are shown in the table below. The mass density, ρ , entered into the DASY3 software is also given.

Recommended limits for permittivity ϵ_r , conductivity S and mass density ρ are also shown.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			ϵ_r	s (S/m)	ρ (g/cm ³)
1900	Head	Measured, 07/06/2005	38.0	1.47	1.00
		Recommended	40.0	1.40	1.00
1900	Body	Measured, 06/06/2005	51.5	1.54	1.00
		Recommended	53.3	1.52	1.00

6 System accuracy verification

A system accuracy verification of the DASY3 was performed using the dipole validation kit listed in section 3.1. The system verification test was conducted on the same day as the measurement of the DUT. Measurement made in ambient temperature (23-24) °C and humidity (35-45) %. The obtained results are displayed in the table below.

RF noise had been measured in liquid when all RF equipment in lab was set off. Measured value was 0.00003mW/g in 1g mass.

f (MHz)	Tissue type	Measured / Reference	SAR (W/kg) 1g/10g	Dielectric Parameters			Liquid t(°C)
				ϵ_r	s (S/m)	ρ (g/cm ³)	
1900	Head	Measured, 07/06/2005	37.8/19.4	38.0	1.47	1.00	22
		Reference	38.3/20.1	39.6	1.45	1.00	-
1900	Body	Measured, 06/06/2005	37.8/19.6	51.5	1.54	1.00	22
		Reference	37.9/20	51.6	1.58	1.00	-

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7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sonyericsson PY7A1021062 phone

Uncertainty Component	Uncer. (%)	Prob Dist.	Div.	C _i	GSM 1900-Head	GSM 1900-Body
Measurement System						
Probe Calibration	±4.4	N	1	1	±4.4	±4.4
Axial Isotropy	±4.7	R	v3	0.5	±1.4	±1.4
Spherical Isotropy	±9.6	R	v3	0.5	±2.8	±2.8
Spatial resolution	±0.0	R	v3	1	±0.0	±0.0
Boundary effect	±5.5	R	v3	1	±3.2	±3.2
Probe linearity	±4.7	R	v3	1	±2.7	±2.7
Detection limit	±1.0	R	v3	1	±0.6	±0.6
Readout electronics	±1.0	N	1	1	±1.0	±1.0
Response time	±0.8	R	v3	1	±0.5	±0.5
Integration time	±1.4	R	v3	1	±0.8	±0.8
RF Ambient Conditions	±3.0	R	v3	1	±1.7	±1.7
Mech. Constraints of robot	±0.4	R	v3	1	±0.2	±0.2
Probe positioning	±2.9	R	v3	1	±1.7	±1.7
Extrap., interpolation and integration	±3.9	R	v3	1	±2.3	±2.3
<i>Measurement System Uncertainty</i>					±7.8	±7.8
Test Sample Related						
Device positioning	±6.0	N	0.89	1	±6.7	±6.7
Device holder uncertainty	±5.0	N	0.84	1	±5.9	±5.9
Power drift	-0.7/0.5	R	v3	1	-0.4	-0.3
<i>Test Sample Related Uncertainty</i>					±8.9	±8.9
Phantom and Tissue Parameters						
Phantom uncertainty	±4.0	R	v3	1	±2.3	±2.3
Liquid conductivity (meas.)	+5/+1.3	R	v3	0.6	+1.7	+0.5
Liquid conductivity (target)	±5.0	R	v3	0.6	±1.7	±1.7
Liquid Permittivity (meas.)	-5/-3.4	R	v3	0.6	-0.6	-1.2
Liquid Permittivity (target)	±5.0	R	v3	0.6	±1.7	±1.7
<i>Phantom and Tissue Parameters Uncertainty</i>					±3.8	±3.6
Combined standard uncertainty					±12.4	±12.4
Extended standard uncertainty (k=2)					±24.8	±24.8

8 Test results

The measured 1-gram averaged SAR values of the device against head and body are provided in Table 1 and Table 2. The ambient humidity and temperature of test facility were (35-45) % and (23–24) °C respectively.

The depth of the head and body tissue simulating liquids were 15.3cm and 15.1cm. A base station simulator was used to control the device during the SAR measurements. The phone was supplied with full-charged battery for each measurement.

For head measurement, the device was tested on the right-hand phantom (corresponding to the right side of the head) and the left-hand phantom in two different phones position, cheek (touch) and tilt (cheek + 15deg). For all modes, the device was tested at the lowest, middle and highest frequencies in the transmit band.

For body measurements the phone was tested on either the phone's antenna (Back) or the Front side phone against the flat section of the phantom with 15mm distance. On the worst case of Body position a hand free head set is used to verify the SAR value.

Mode	Chanel	Power (dB)	Phone Position	Liquid t (°C)	SAR (W/kg)	
					Right-hand	Left-hand
					1g mass	1g mass
1900 GSM	512	30.5	Cheek	22-23	0.31	0.62
			Tilt	22-23	0.38	0.62
	661	29.7	Cheek	22-23	0.24	0.35
			Tilt	22-23	0.23	0.35
	810	28.9	Cheek	22-23	0.15	0.23
			Tilt	22-23	0.17	0.24

Table1: SAR measurement result for Sony Ericsson PY7A1021062 telephone at highest possible output power. Measurements have done against the head.

Mode	Channel	Power (dBm)	Phone Position	Liquid t (°C)	SAR (W/kg) in 1 g mass
GSM 1900 Body	512	30.5	Front to phantom	22-23	0.11
			Antenna to phantom	22-23	0.33
			Antenna to phantom Hands free	22-23	0.31
	661	29.7	Front to phantom	22-23	0.07
			Antenna to phantom	22-23	0.21
	810	28.9	Front to phantom	22-23	0.06
Antenna to phantom			22-23	0.16	

Table2: SAR measurement result for Sony Ericsson PY7A1021062 telephone at highest possible output power. Measurements have done against the Body.


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9 References

- [1] R.Plicanic, "SAR Measurement Specification of Wireless Handsets", Sony Ericsson SAR Test Laboratory internal document GUG/N 03:141
- [2] Basic standard for the Measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300MHz-3GHz), European Standard EN 50361, July 2001
- [3] FCC, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields: Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radio Frequency Emissions," Supplement C (Edition 01-01) to OET Bulletin 65 (Edition 97-01).
- [4] IEEE, "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques," Std. 1528-2003, June, 2003.

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10 Appendix

10.1 Photographs of the device under test



Front & Back sides



Down Connector

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Back side with battery



Sides

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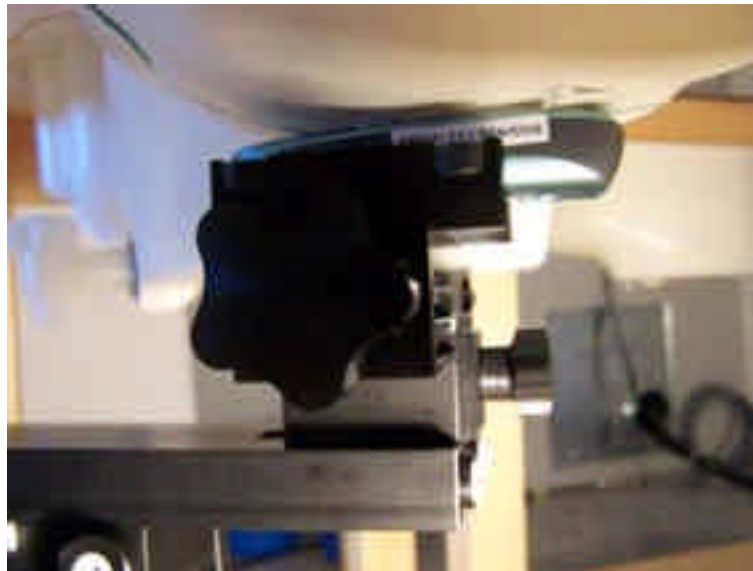
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10.2 Device position on SAM Twins Phantom



Device position against the head: Cheek (touch) phone position



Device position against the head: Tilt (cheek+15deg) phone position

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Device position against the body: 15mm distance from Phantom.



Portable Hand Free HPE-14

DASY4 Validation Report for Head TSL

Date/Time: 09.03.2005 15:20:45

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002

Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL 1900 MHz;

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.46$ mho/m; $\epsilon_r = 39.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(4.96, 4.96, 4.96); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.01.2005
- Phantom: Flat Phantom 5.0; Type: QD000P50AA; Serial: 1001;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.4 mW/g

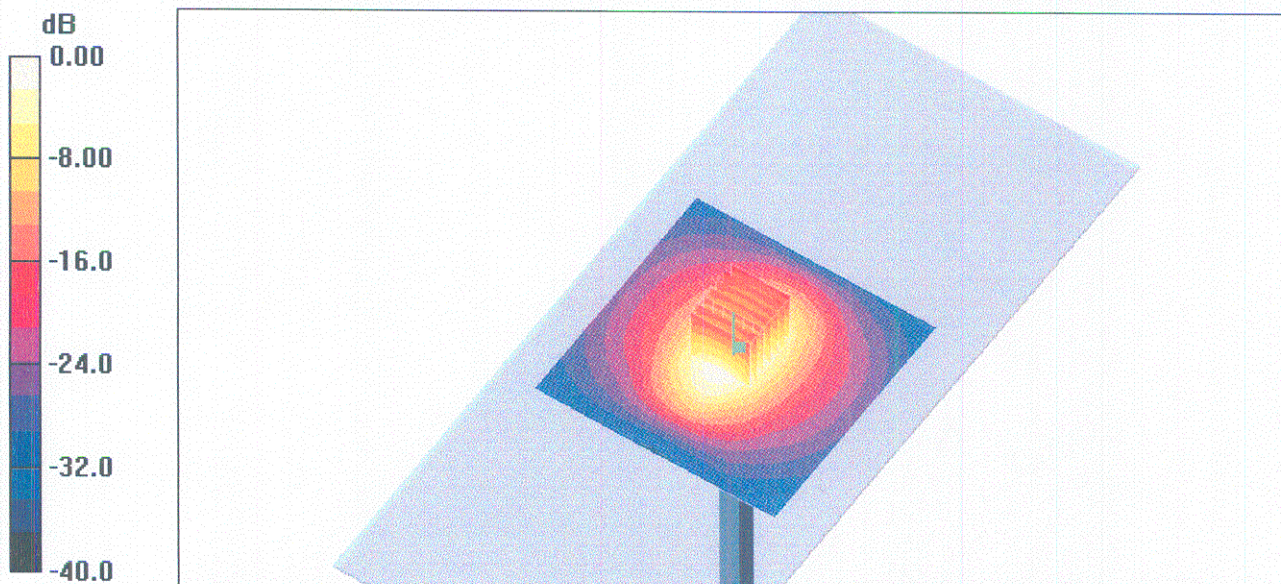
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 91.4 V/m; Power Drift = 0.037 dB

Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.81 mW/g; SAR(10 g) = 5.15 mW/g

Maximum value of SAR (measured) = 11.0 mW/g



0 dB = 11.0mW/g

DASY4 Validation Report for Body TSL

Date/Time: 15.03.2005 15:20:32

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN:5d002

Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL 1900 MHz;

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.57$ mho/m; $\epsilon_r = 52.2$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 - SN1507; ConvF(4.43, 4.43, 4.43); Calibrated: 26.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 07.01.2005
- Phantom: Flat Phantom 5.0; Type: QD000P50AA; Serial: 1001;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (interpolated) = 11.4 mW/g

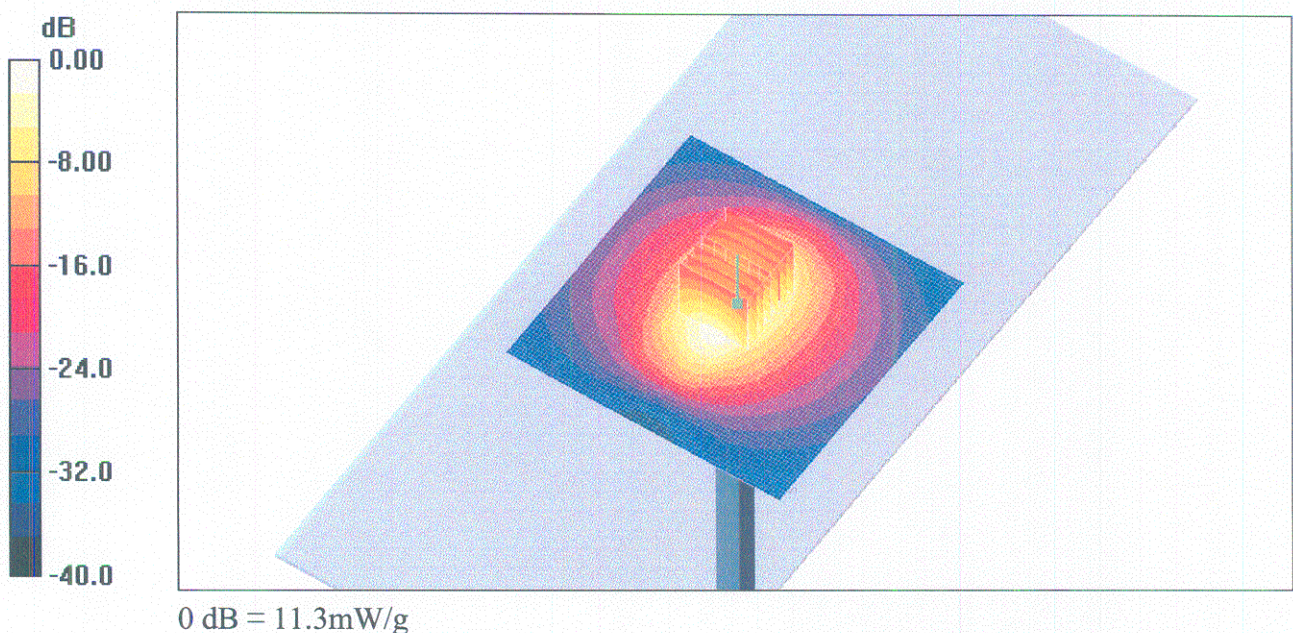
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.3 V/m; Power Drift = 0.061 dB

Peak SAR (extrapolated) = 16.8 W/kg

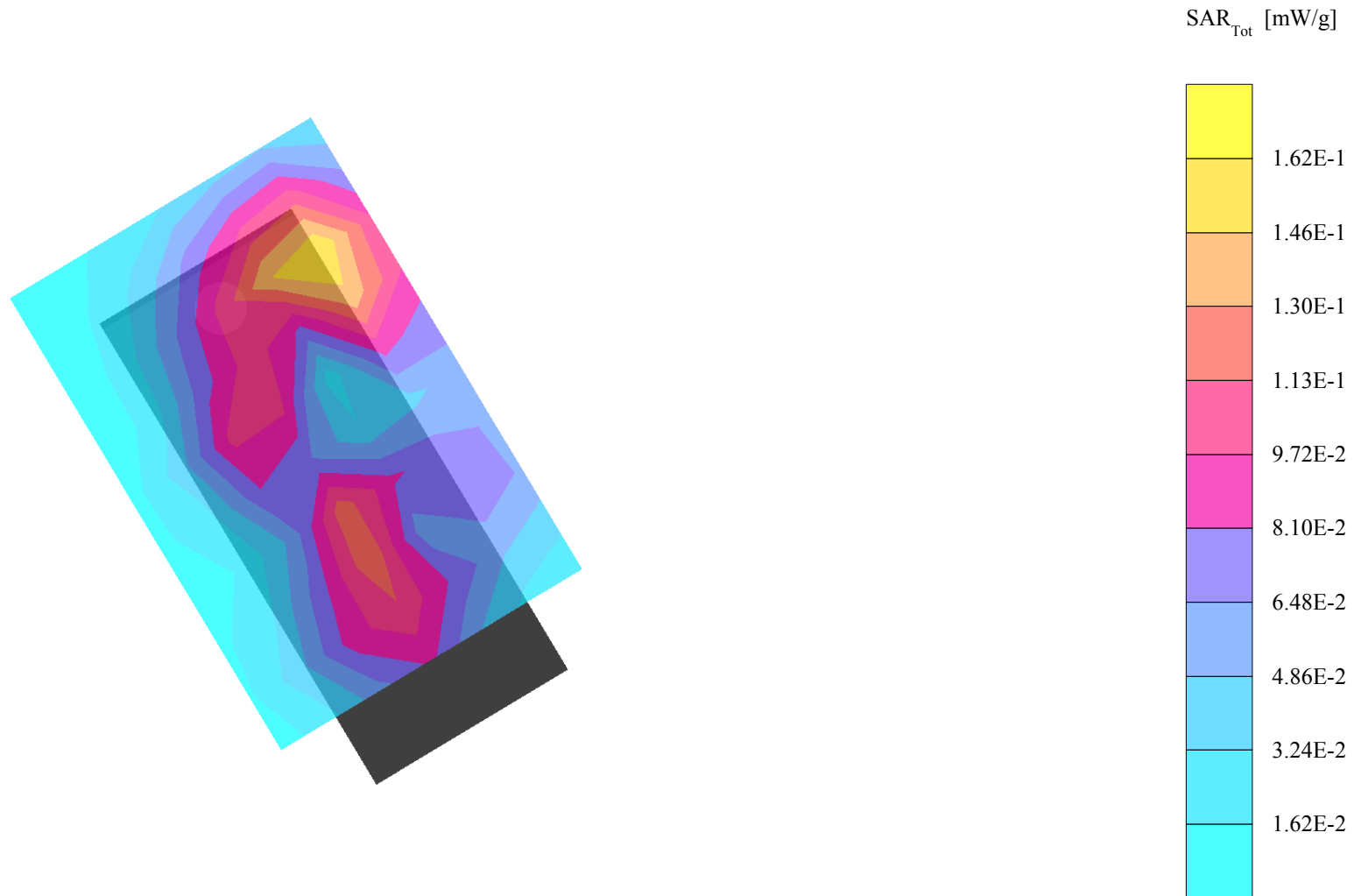
SAR(1 g) = 9.91 mW/g; SAR(10 g) = 5.23 mW/g

Maximum value of SAR (measured) = 11.3 mW/g



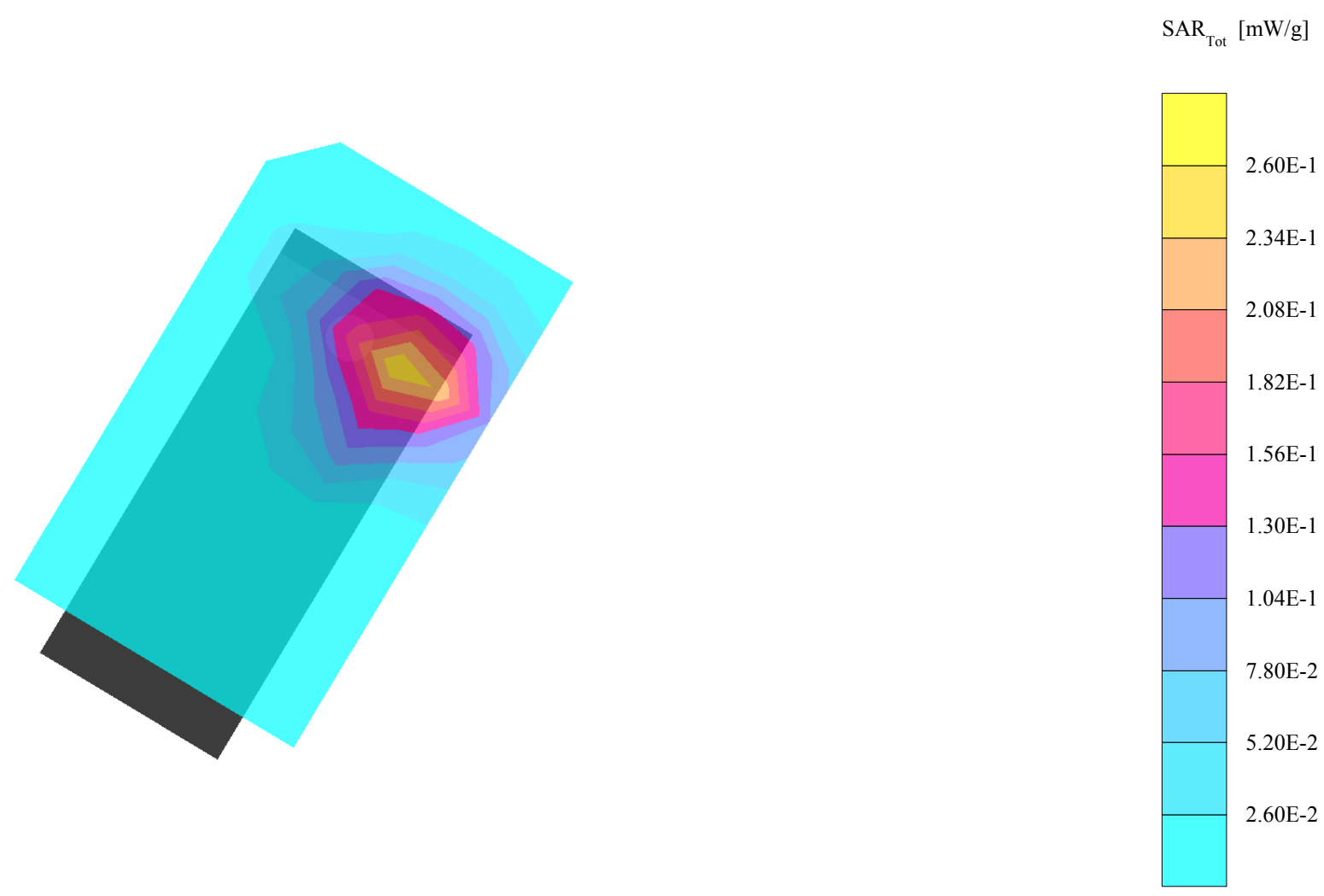
PY7A1021062

SAM 4 Phantom; Righ Hand Section; Position: (94°,301°); Frequency: 1910 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.153 mW/g, SAR (10g): 0.0868 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: -0.11 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1910MHz(ch810), Right Hand Side,Cheek
(94°) Phone Position, meas. Power=28.95dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



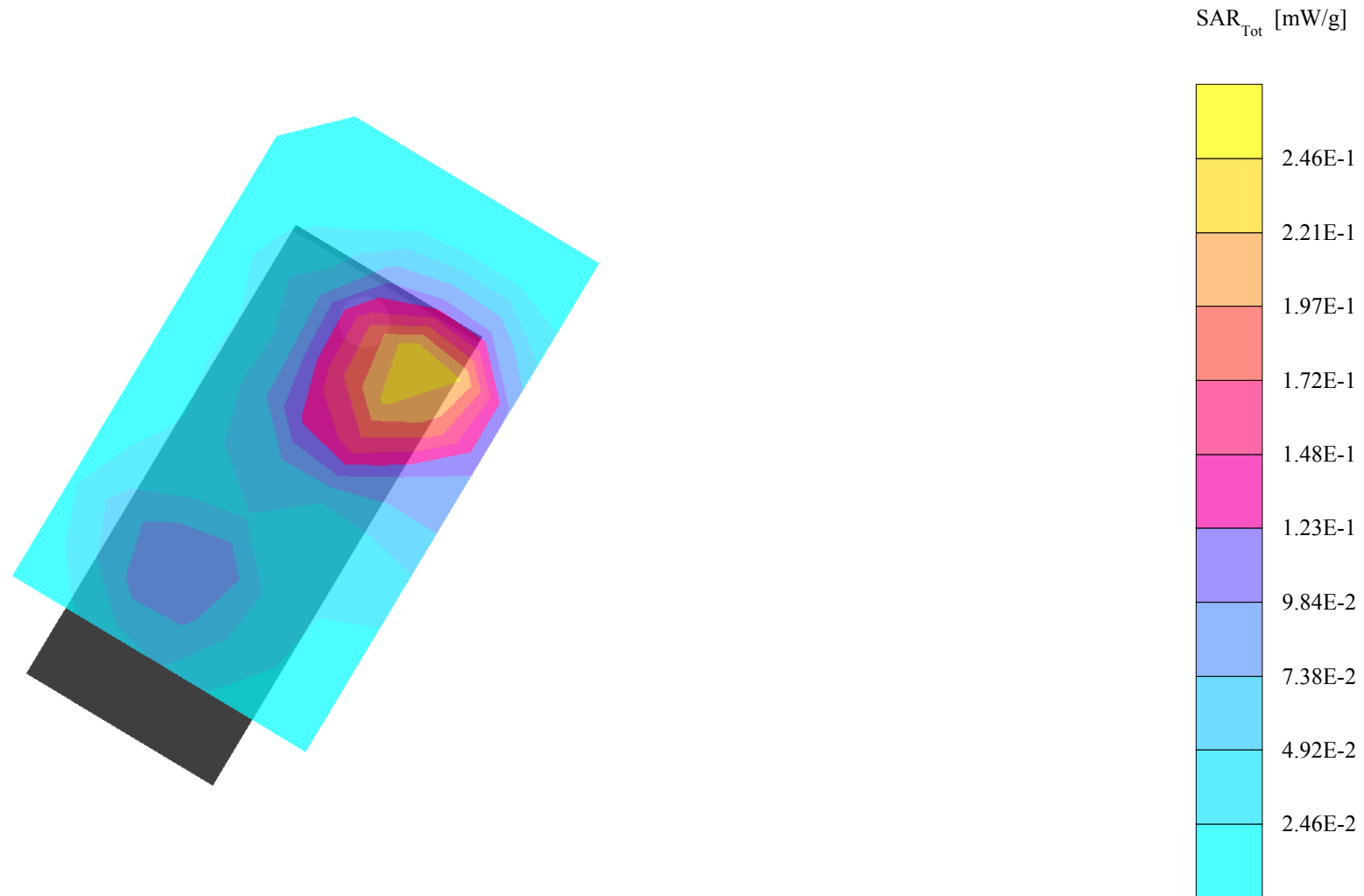
PY7A1021062

SAM 4 Phantom; Left Hand Section; Position: (109°,59°); Frequency: 1910 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.235 mW/g, SAR (10g): 0.119 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0
Powerdrift: 0.02 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1910MHz(ch810), Left Hand Side,Tilt
(109°) Phone Position, meas. Power=28.95dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



PY7A1021062

SAM 4 Phantom; Left Hand Section; Position: (94°,59°); Frequency: 1910 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.232 mW/g, SAR (10g): 0.118 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0
Powerdrift: -0.04 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1910MHz(ch810), Left Hand Side,Cheek
(94°) Phone Position, meas. Power=28.95dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



PY7A1021062

SAM 4 Phantom; Flat Section; Position: (270°,90°); Frequency: 1910 MHz

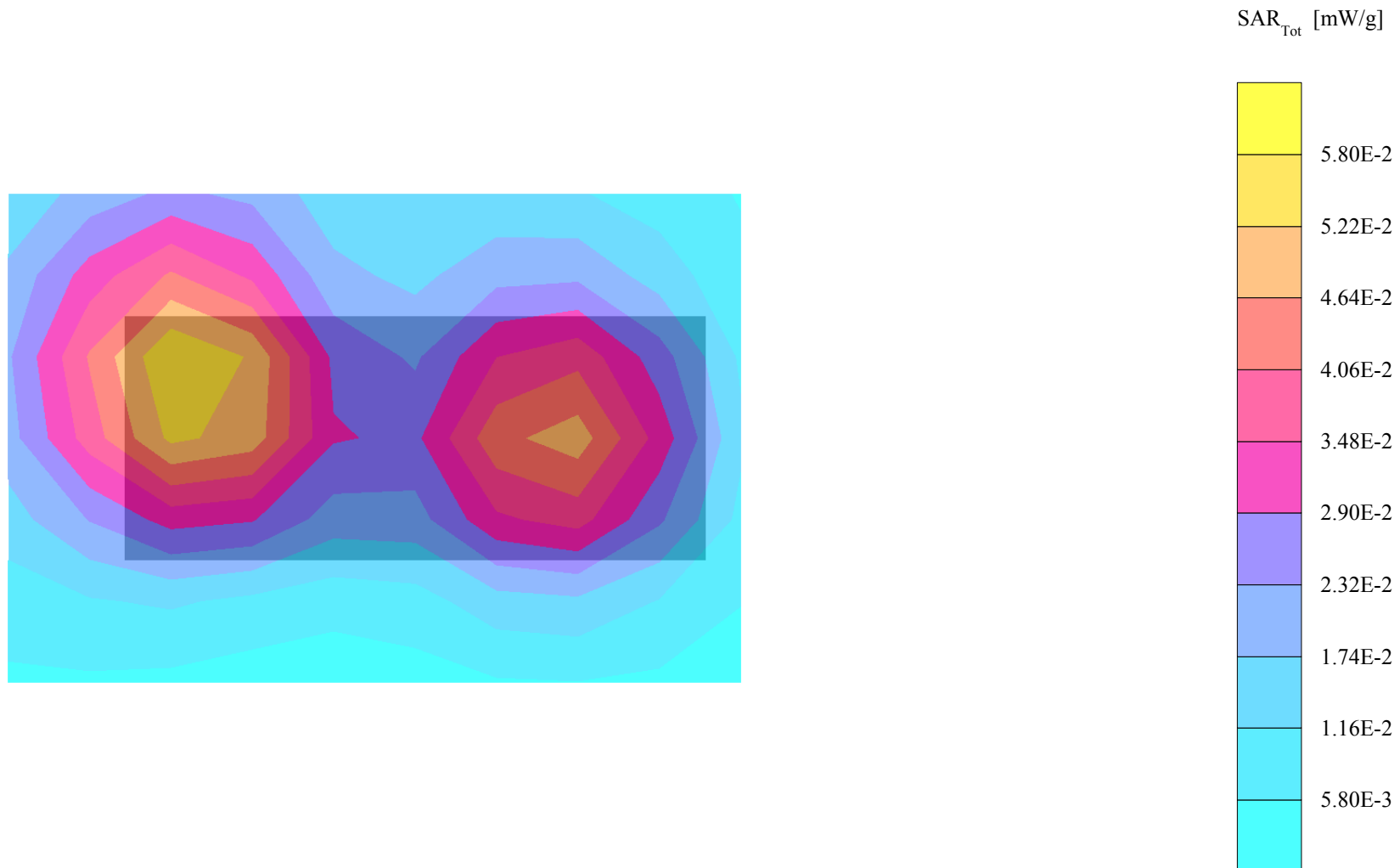
Probe: ET3DV6 - SN1582; ConvF(4.68,4.68,4.68); Crest factor: 8.0; Muscle 1900: $\sigma = 1.54$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.0565 mW/g, SAR (10g): 0.0344 mW/g, (Worst-case extrapolation)

Coarse: Dx = 14.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.07 dB

PY7A1021061,S/N:TP810200N1;frequevcy 1910MHz(ch810), Front side phone with 15mm distance from flat section of the phantom;meas. Power=28.99dBm, Nom.Power=30,6dBm;ambien temprature23(c-degree)and humidity 40%,Date:050606



PY7A1021062

SAM 4 Phantom; Flat Section; Position: (270°,90°); Frequency: 1910 MHz

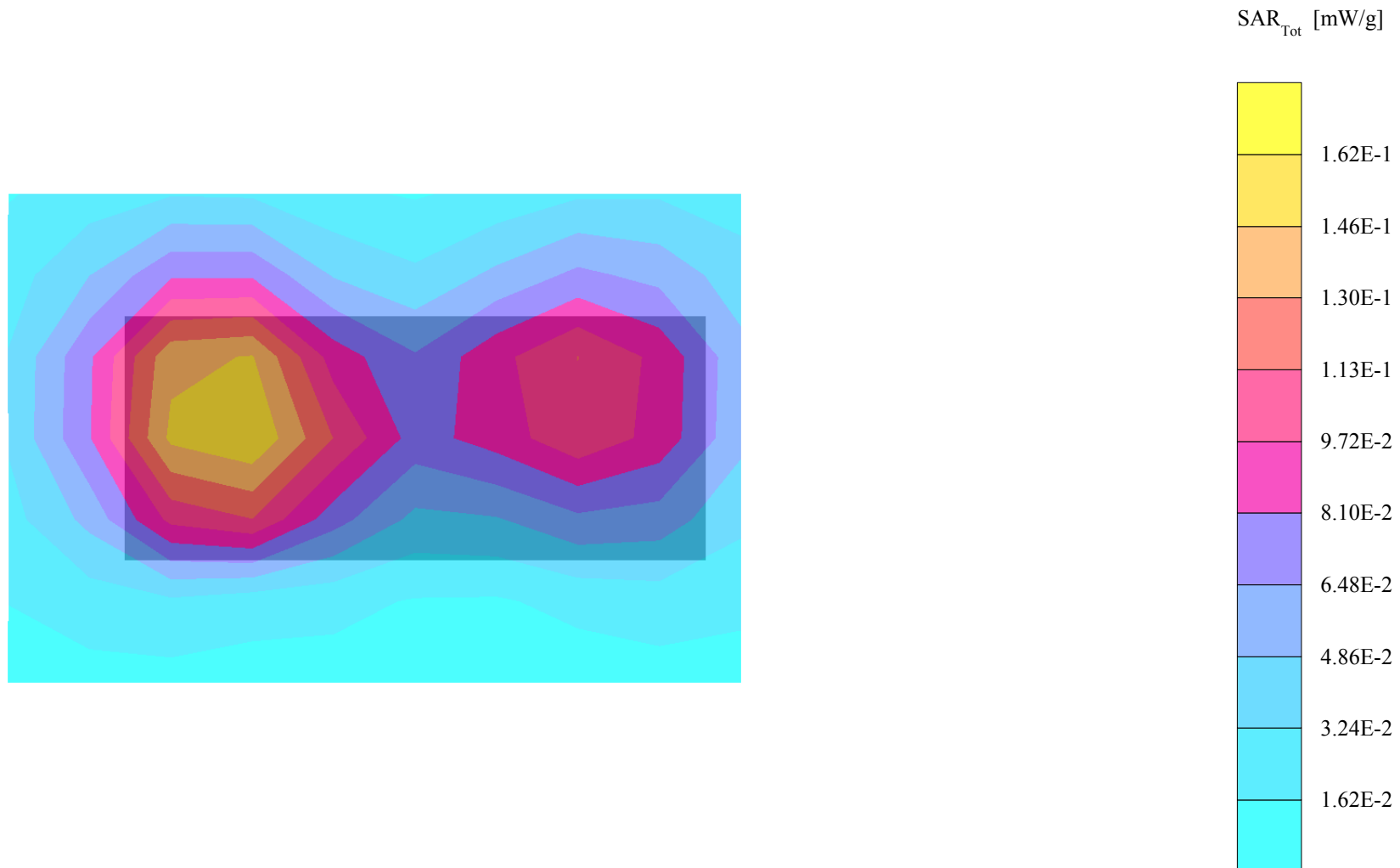
Probe: ET3DV6 - SN1582; ConvF(4.68,4.68,4.68); Crest factor: 8.0; Muscle 1900: $\sigma = 1.54$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 0.155 mW/g \pm 0.05 dB, SAR (10g): 0.0939 mW/g \pm 0.05 dB, (Worst-case extrapolation)

Coarse: Dx = 14.0, Dy = 14.0, Dz = 10.0

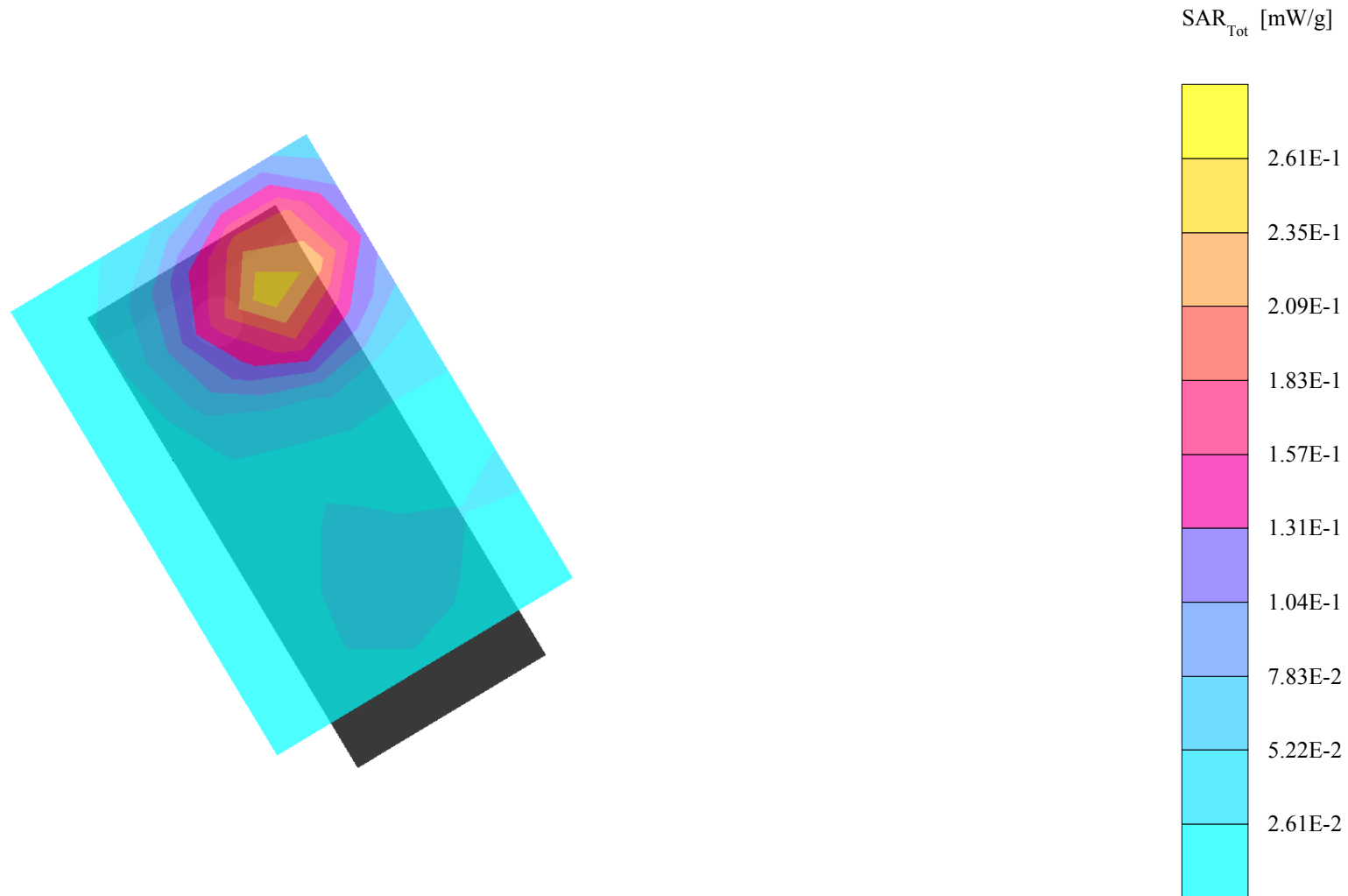
Powerdrift: -0.01 dB

PY7A1021061,S/N:TP810200N1;frequevcy 1910MHz(ch810), Back side phone with 15mm distance from flat section of the phantom;meas. Power=28.99dBm, Nom.Power=30,6dBm;ambien temprature23(c-degree)and humidity 40%,Date:050606



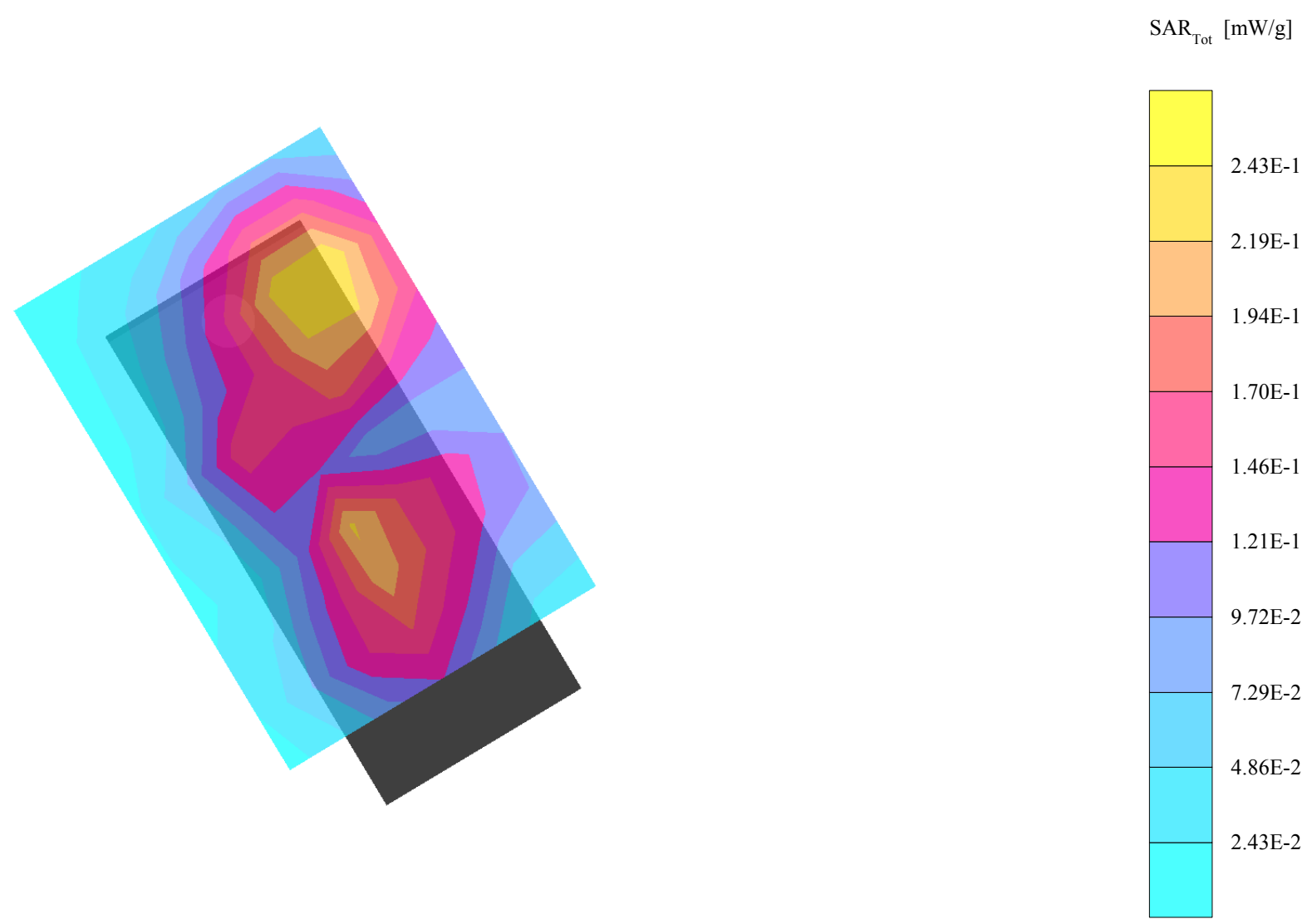
PY7A1021062

SAM 4 Phantom; Righ Hand Section; Position: (109°,301°); Frequency: 1880 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.233 mW/g, SAR (10g): 0.129 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: -0.10 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1880MHz(ch661), Right Hand Side,Tilt
(94°) Phone Position, meas. Power=29.69dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



PY7A1021062

SAM 4 Phantom; Righ Hand Section; Position: (94°,301°); Frequency: 1880 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.237 mW/g, SAR (10g): 0.134 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: 0.01 dB

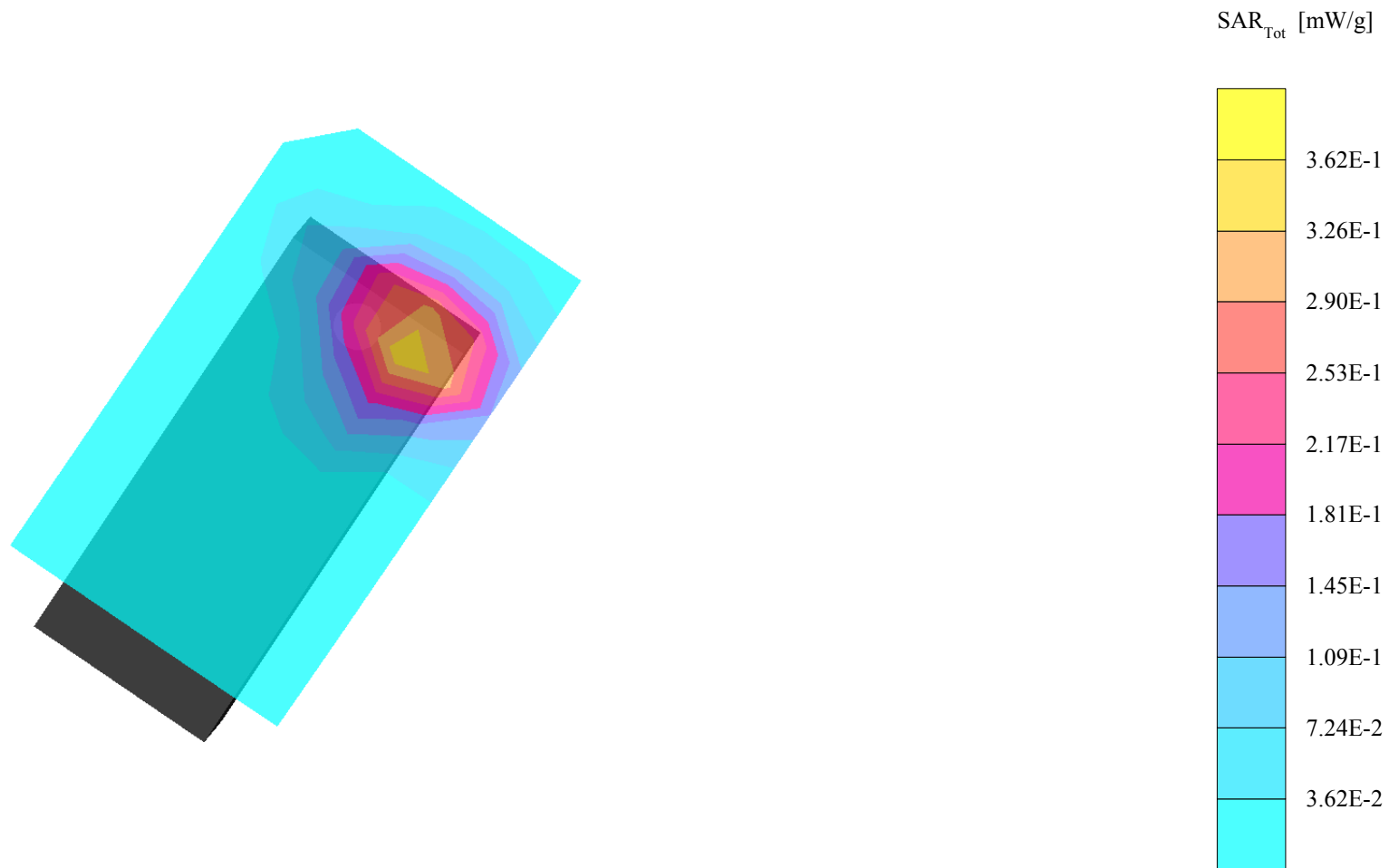


PY7A1021062

SAM 4 Phantom; Left Hand Section; Position: (109°,59°); Frequency: 1880 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.347 mW/g, SAR (10g): 0.175 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0

Powerdrift:-0.05

PY7A1021061,S/N:TP810200N1;frequevcy 1880MHz(ch661), Left Hand Side,Tilt
(104°) Phone Position, meas. Power=29.69dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



PY7A1021062

SAM 4 Phantom; Left Hand Section; Position: (94°,59°); Frequency: 1880 MHz

Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.347 mW/g, SAR (10g): 0.181 mW/g, (Worst-case extrapolation)

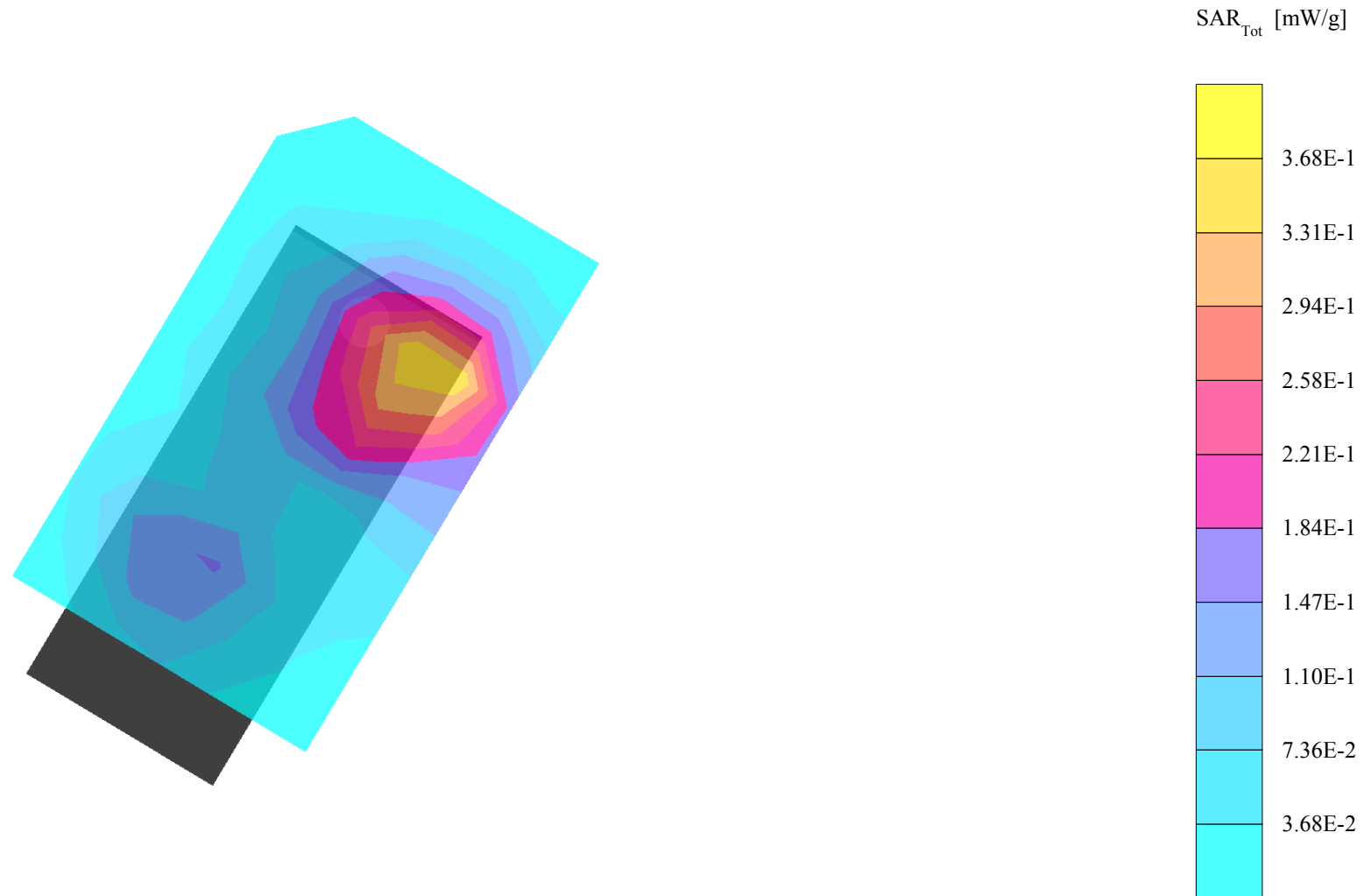
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0

Powerdrift: -0.07 dB

PY7A1021061,S/N:TP810200N1;frequevcy 1880MHz(ch661), Left Hand Side,Cheek

(94°) Phone Position, meas. Power=29.69dBm, Nom.Power=30.6dBm; ambien temprature

23(c-degree)and humidity 40%,Date:050607



PY7A1021062

SAM 4 Phantom; Flat Section; Position: (270°,90°); Frequency: 1880 MHz

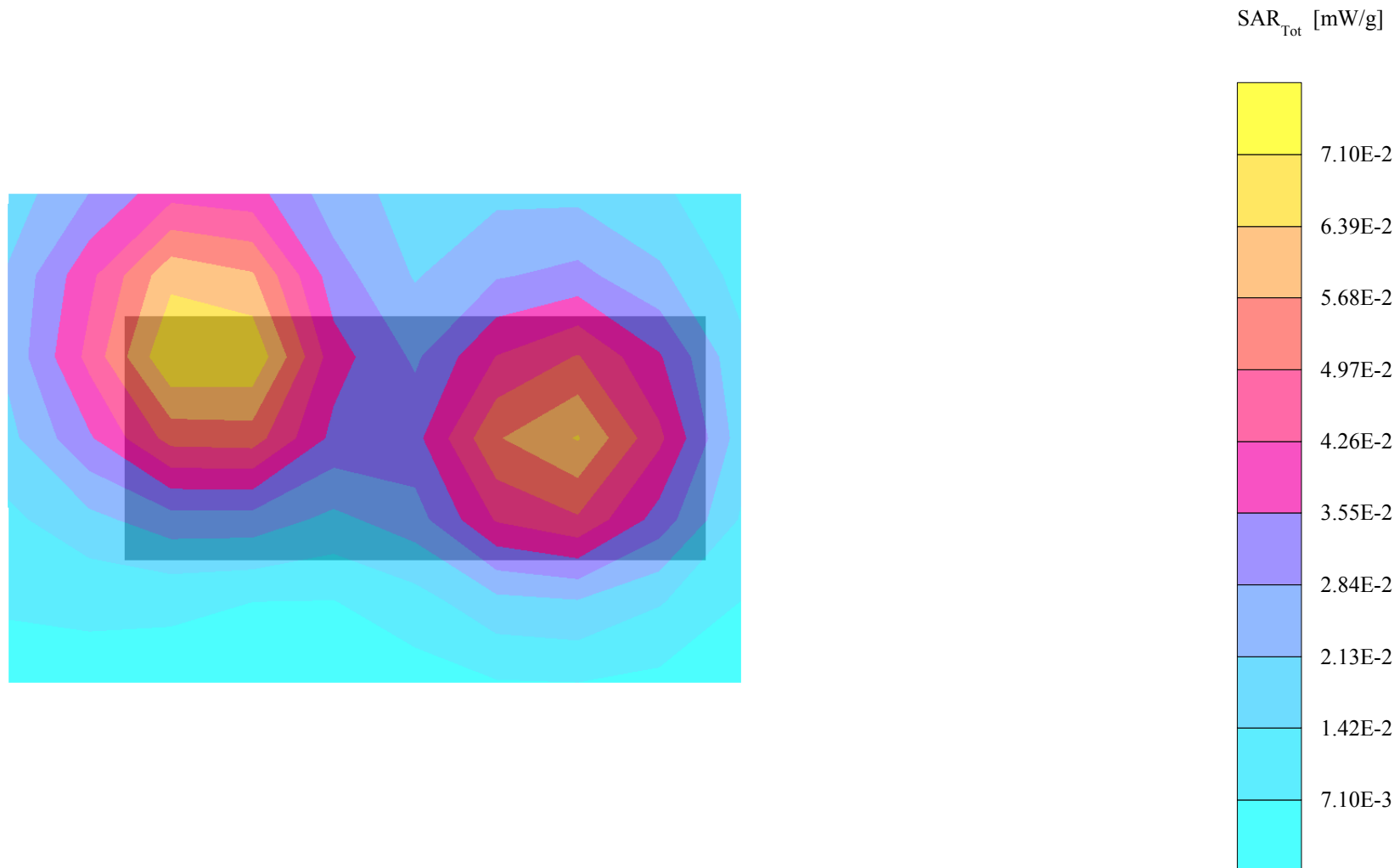
Probe: ET3DV6 - SN1582; ConvF(4.68,4.68,4.68); Crest factor: 8.0; Muscle 1900: $\sigma = 1.54$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.0697 mW/g, SAR (10g): 0.0428 mW/g, (Worst-case extrapolation)

Coarse: Dx = 14.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.11 dB

PY7A1021061,S/N:TP810200N1;frequevcy 1880MHz(ch661), Front side phone with 15mm distance from flat section of the phantom;meas. Power=29.69dBm, Nom.Power=30,6dBm;ambien temprature23(c-degree)and humidity 40%,Date:050606



PY7A1021062

SAM 4 Phantom; Flat Section; Position: (270°,90°); Frequency: 1880 MHz

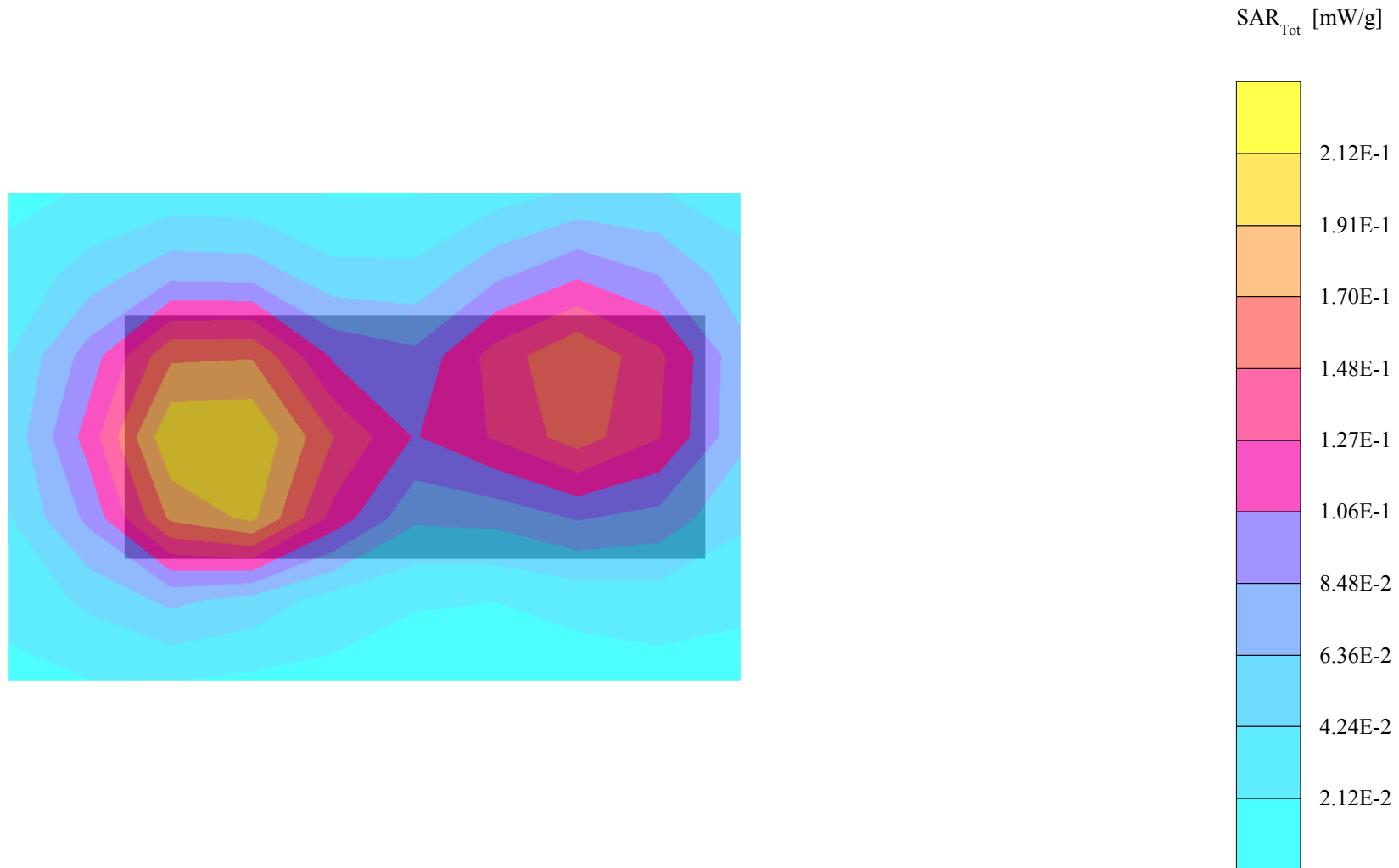
Probe: ET3DV6 - SN1582; ConvF(4.68,4.68,4.68); Crest factor: 8.0; Muscle 1900: $\sigma = 1.54$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.213 mW/g, SAR (10g): 0.129 mW/g, (Worst-case extrapolation)

Coarse: Dx = 14.0, Dy = 14.0, Dz = 10.0

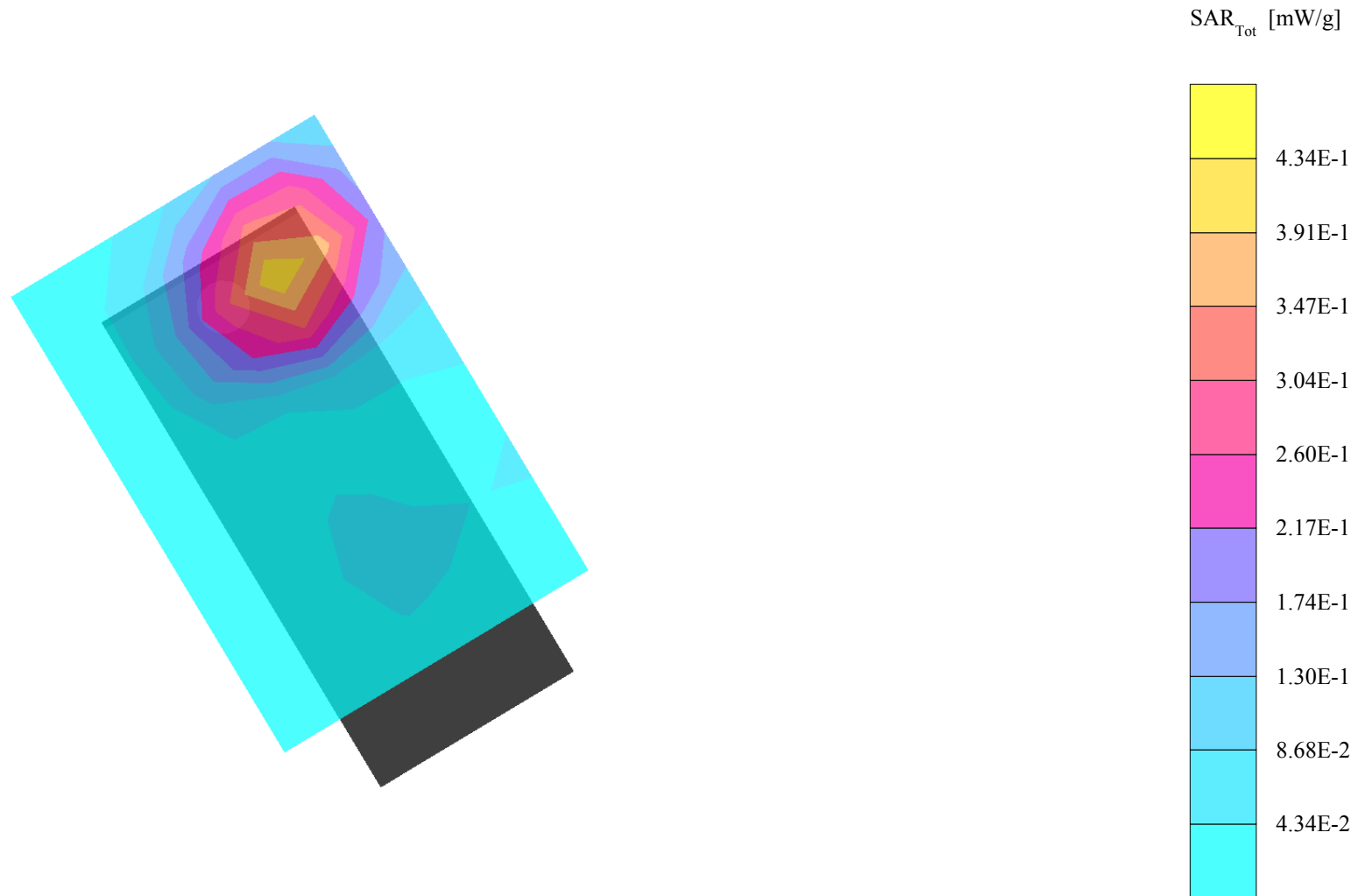
Powerdrift: -0.11 dB

PY7A1021061,S/N:TP810200N1;frequevcy 1880MHz(ch661), Back side phone with 15mm distance from flat section of the phantom;meas. Power=29.69dBm, Nom.Power=30,6dBm;ambien temprature23(c-degree)and humidity 40%,Date:050606



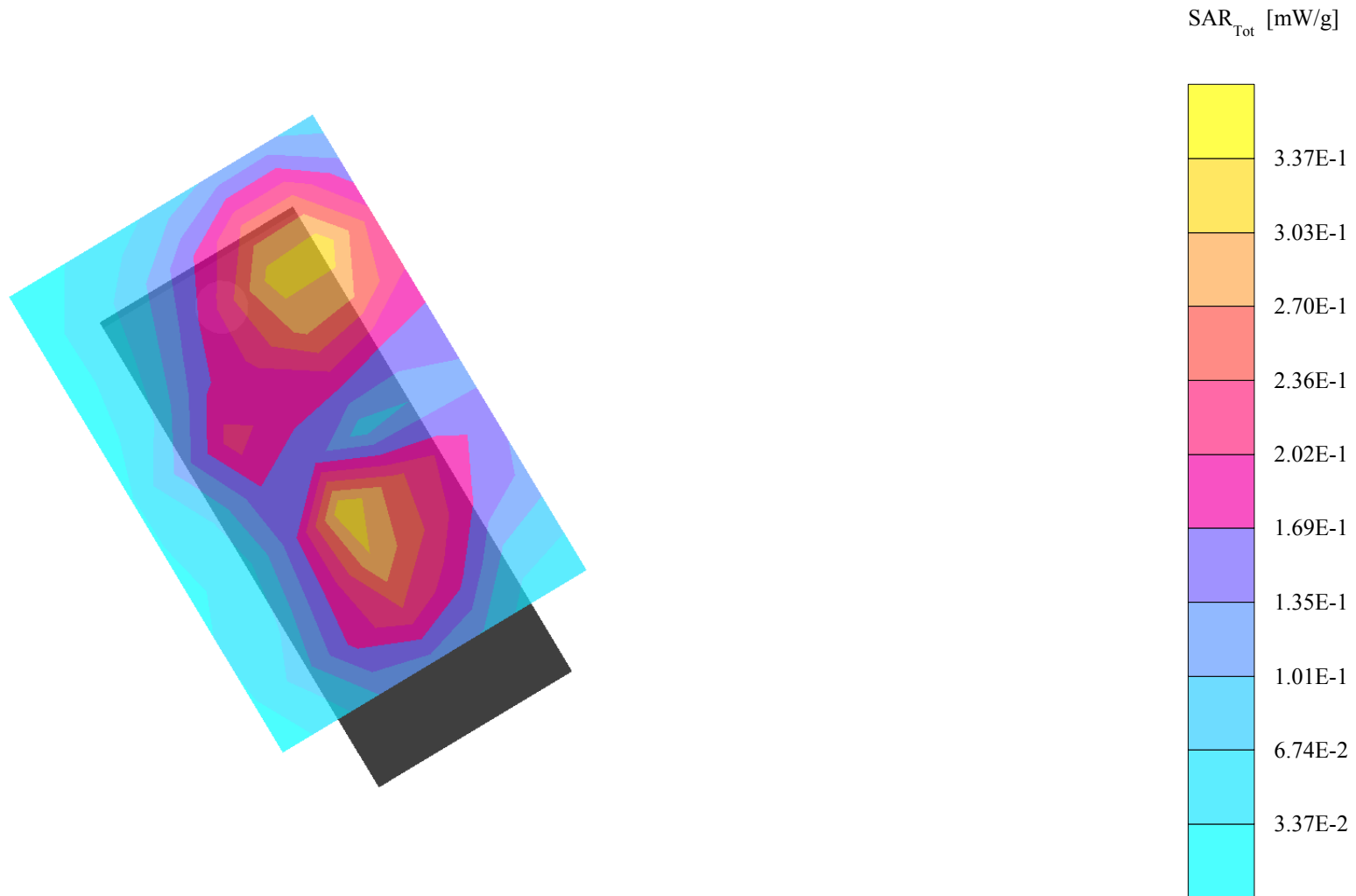
PY7A1021062

SAM 4 Phantom; Righ Hand Section; Position: (94°,301°); Frequency: 1850 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.381 mW/g, SAR (10g): 0.211 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: 0.03 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1850MHz(ch512), Right Hand Side,Tilt
(94°) Phone Position, meas. Power=30.52dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



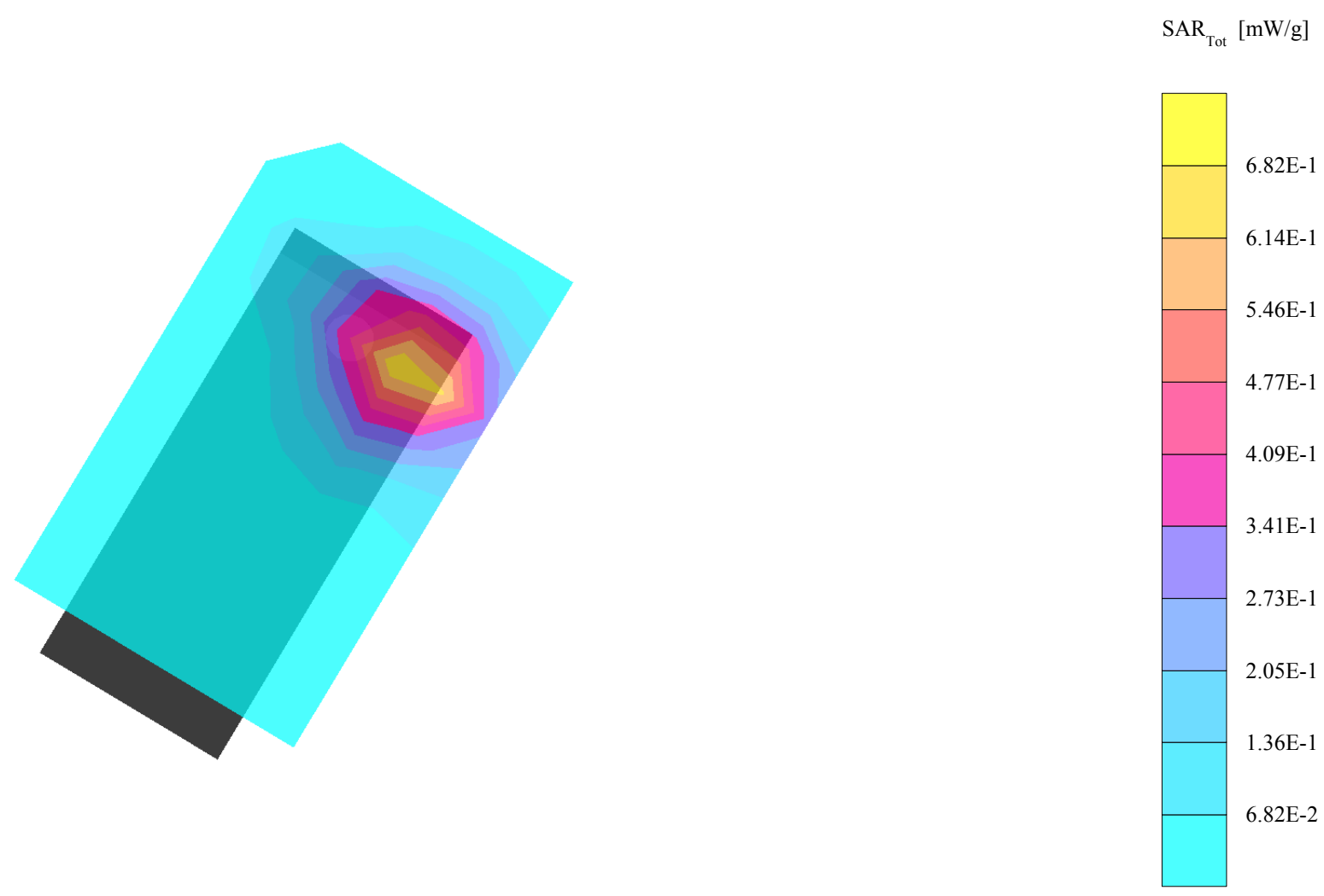
PY7A1021062

SAM 4 Phantom; Righ Hand Section; Position: (94°,301°); Frequency: 1850 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.305 mW/g, SAR (10g): 0.164 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: -0.20 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1850MHz(ch512), Right Hand Side,Cheek
(94°) Phone Position, meas. Power=30.52dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



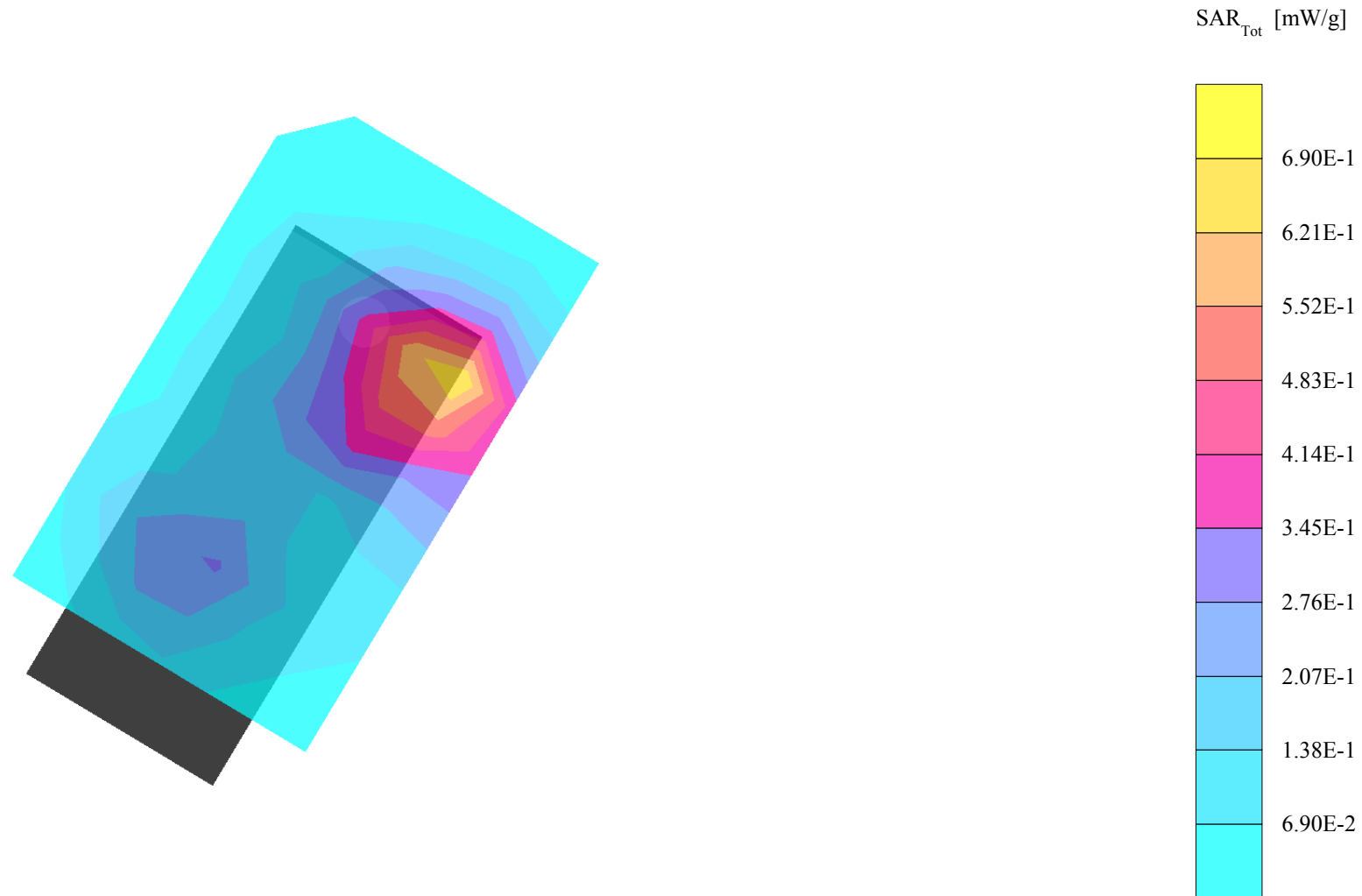
PY7A1021062

SAM 4 Phantom; Left Hand Section; Position: (109°,59°); Frequency: 1850 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.620 mW/g, SAR (10g): 0.312 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0
Powerdrift: -0.05 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1850MHz(ch512), Left Hand Side,Tilt
(109°) Phone Position, meas. Power=30.52dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



PY7A1021062

SAM 4 Phantom; Left Hand Section; Position: (94°,59°); Frequency: 1850 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cubes (2): SAR (1g): 0.622 mW/g ± 0.00 dB, SAR (10g): 0.322 mW/g ± 0.01 dB, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0
Powerdrift: 0.03 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1850MHz(ch512), Left Hand Side,Cheek
(94°) Phone Position, meas. Power=30.52dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



PY7A1021062

SAM 4 Phantom; Flat Section; Position: (270°,90°); Frequency: 1850 MHz

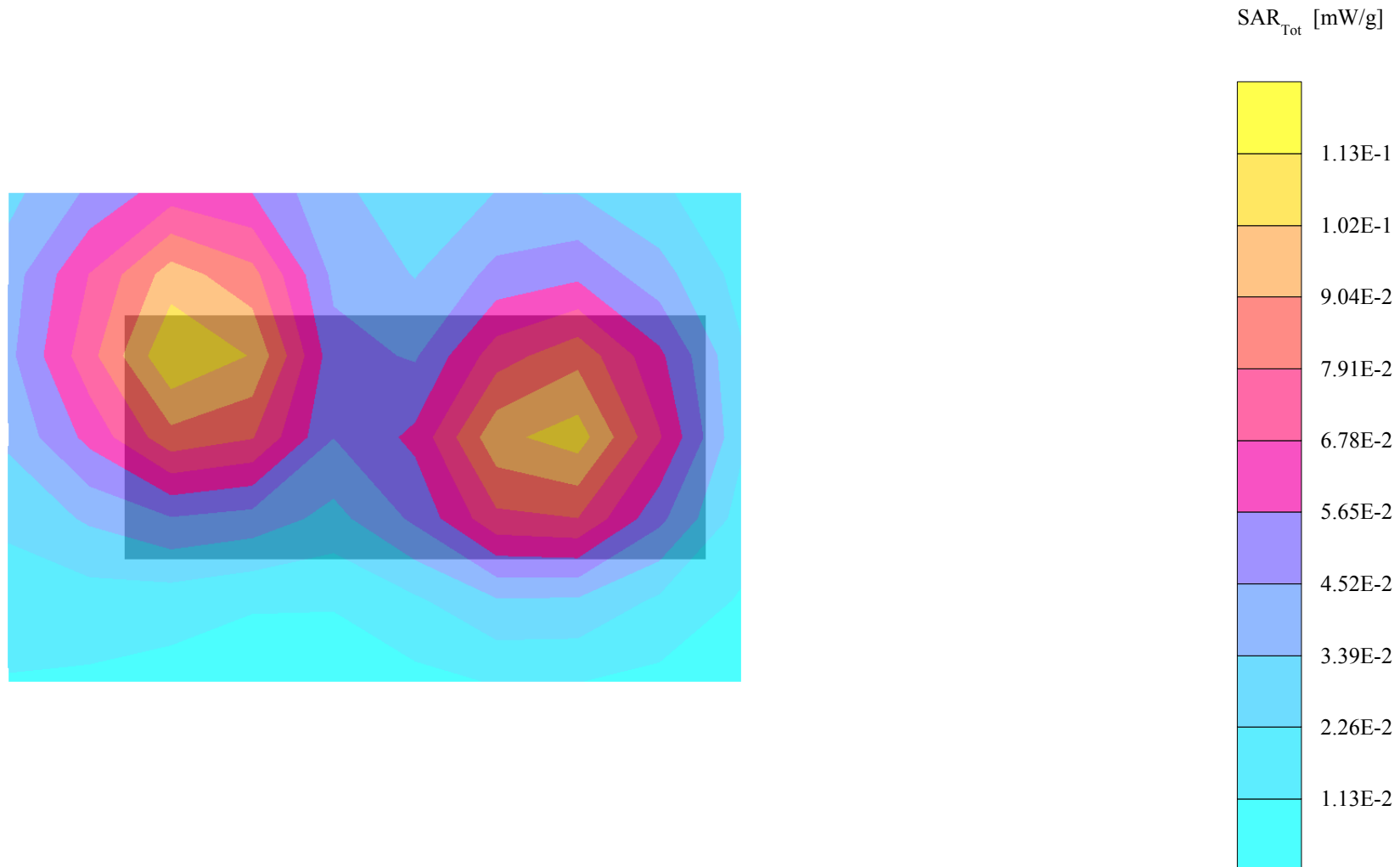
Probe: ET3DV6 - SN1582; ConvF(4.68,4.68,4.68); Crest factor: 8.0; Muscle 1900: $\sigma = 1.54$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.107 mW/g, SAR (10g): 0.0661 mW/g, (Worst-case extrapolation)

Coarse: Dx = 14.0, Dy = 14.0, Dz = 10.0

Powerdrift: 0.02 dB

PY7A1021061,S/N:TP810200N1;frequevcy 1850MHz(ch512), Front side phone with 15mm distance from flat section of the phantom;meas. Power=30.52dBm, Nom.Power=30,6dBm; ambien temprature23(c-degree)and humidity 40%,Date:050606



PY7A1021062

SAM 4 Phantom; Flat Section; Position: (270°,90°); Frequency: 1850 MHz

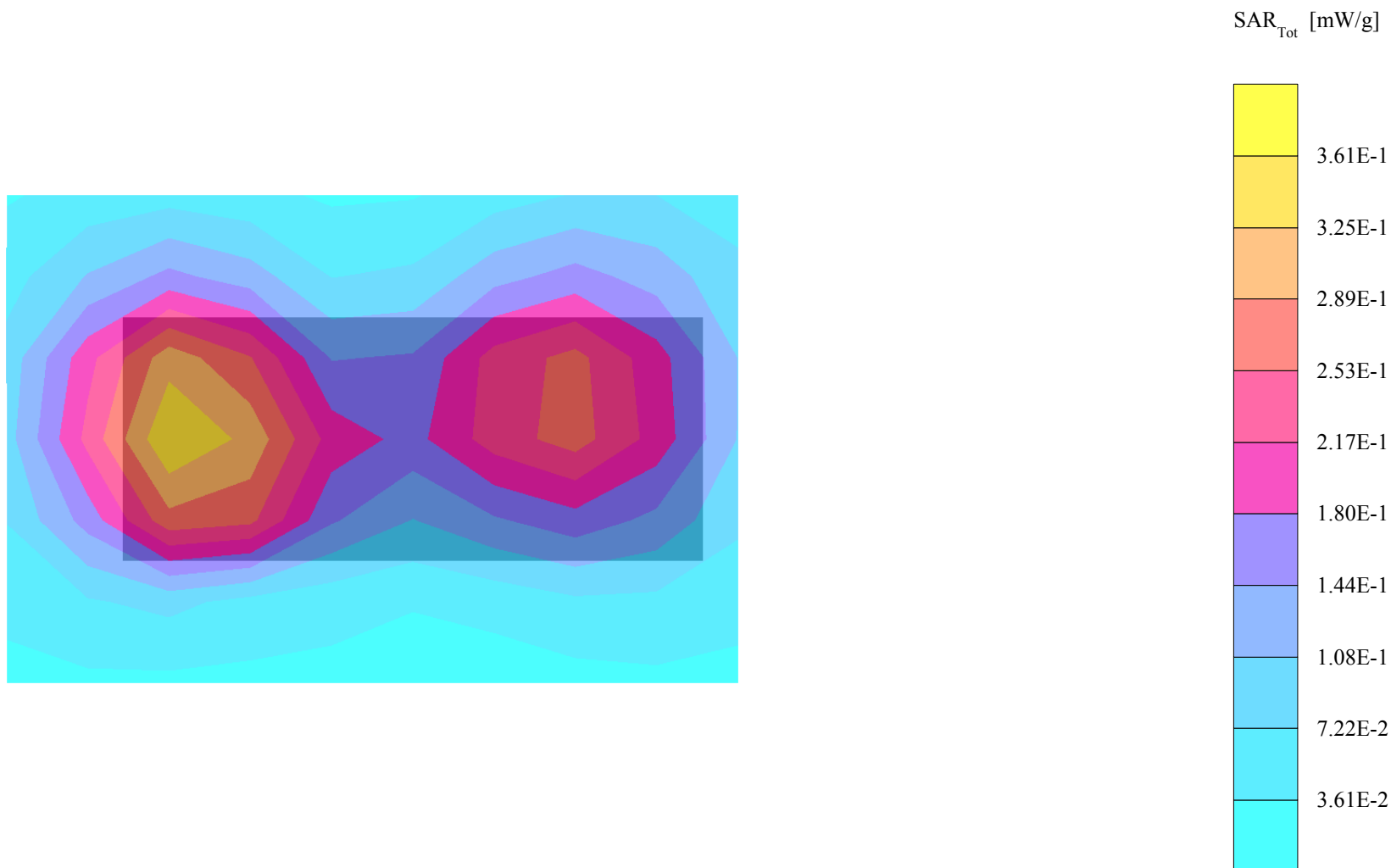
Probe: ET3DV6 - SN1582; ConvF(4.68,4.68,4.68); Crest factor: 8.0; Muscle 1900: $\sigma = 1.54$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³

Cubes (3): SAR (1g): 0.326 mW/g \pm 0.13 dB, SAR (10g): 0.198 mW/g \pm 0.12 dB, (Worst-case extrapolation)

Coarse: Dx = 14.0, Dy = 14.0, Dz = 10.0

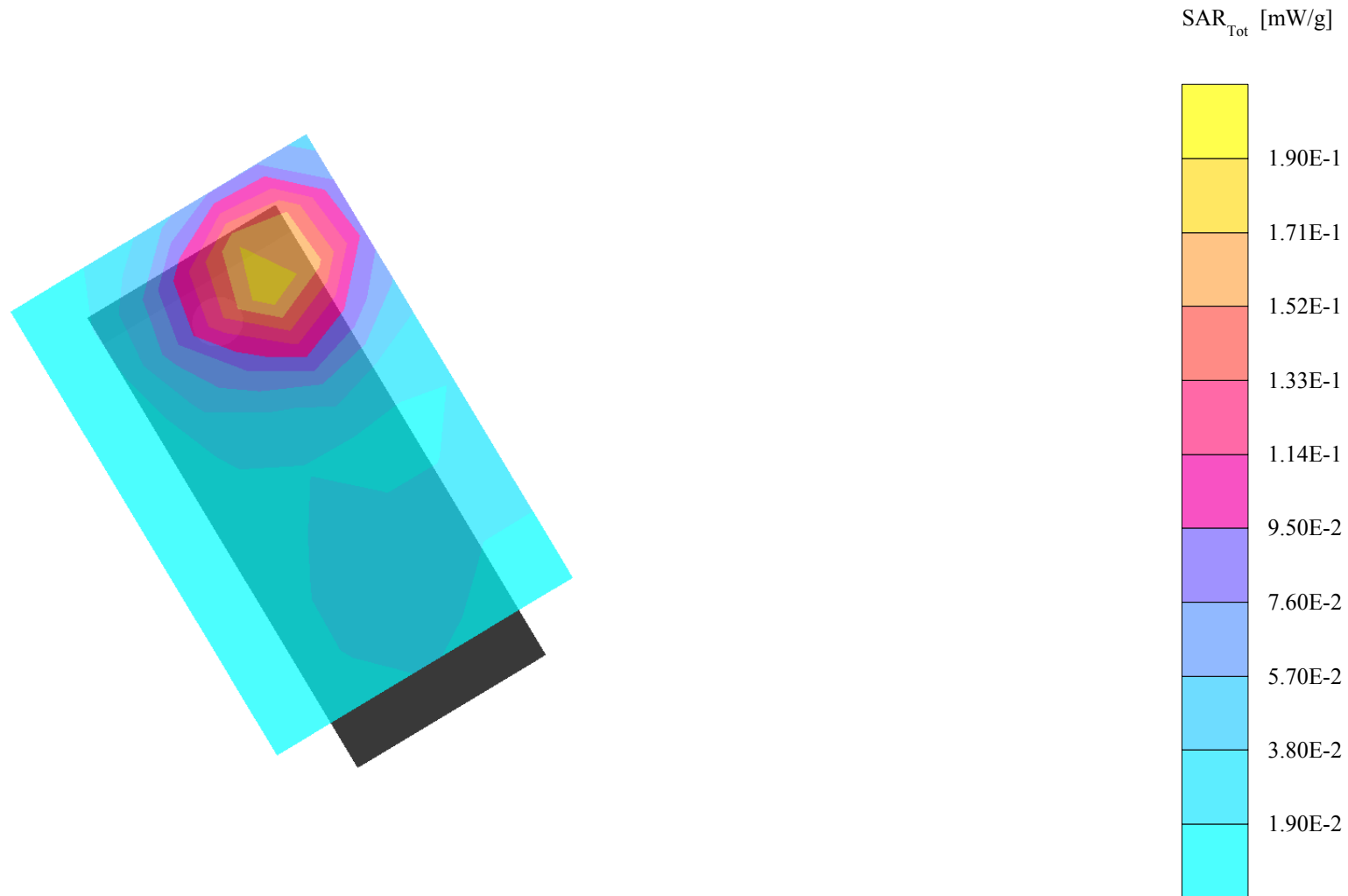
Powerdrift: 0.02 dB

PY7A1021061,S/N:TP810200N1;frequevcy 1850MHz(ch512), Back side phone with 15mm distance from flat section of the phantom;meas. Power=30.52dBm, Nom.Power=30,6dBm;ambien temprature23(c-degree)and humidity 40%,Date:050606



PY7A1021062

SAM 4 Phantom; Righ Hand Section; Position: (109°,301°); Frequency: 1910 MHz
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.174 mW/g, SAR (10g): 0.0958 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: -0.07 dB
PY7A1021061,S/N:TP810200N1;frequevcy 1910MHz(ch810), Right Hand Side,Tilt
(94°) Phone Position, meas. Power=28.95dBm, Nom.Power=30.6dBm; ambien temprature
23(c-degree)and humidity 40%,Date:050607



D1900 V2

SAM 4 Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 1.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 3.78 mW/g, SAR (10g): 1.94 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 17.0

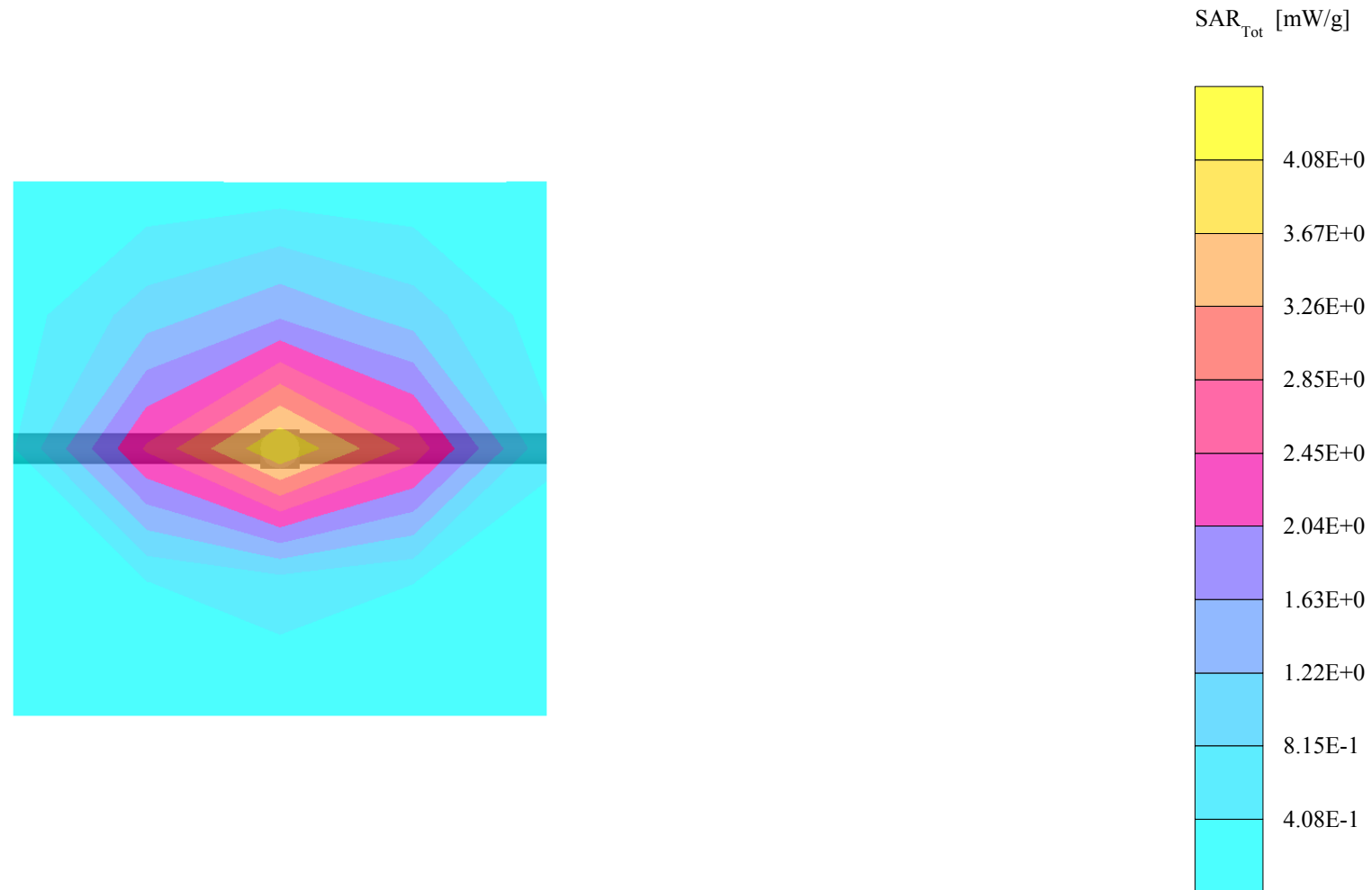
Powerdrift: -0.06 dB

P=100mW, d=10mm, 1900MHz dipol D1900V2 s/n 5d002

Target values: 1g mass 38.3 mW/g, 10g mass 20.1 mW/g

Measured values: 1g mass 37.8mW/g(-1.3%), 10g mass 19.4mW/g(-3.5%)

LIQUID'S Temperature 22C, Ambeint Temperature 24C ,humidity36%



PY7A1021062

SAM 4 Phantom; Left Hand Section; Position: (94°,59°); Frequency: 1850 MHz

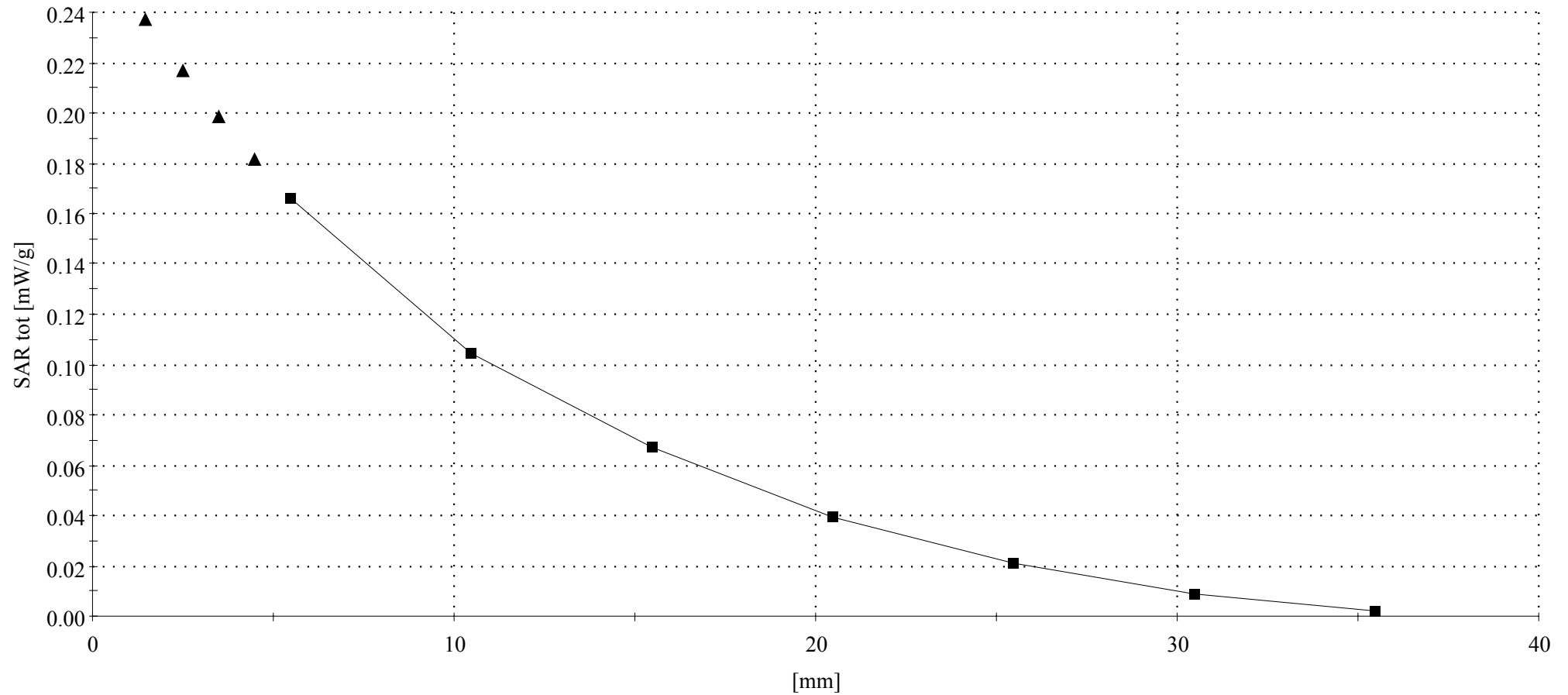
Probe: ET3DV6 - SN1582; ConvF(5.17,5.17,5.17); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.47$ mho/m $\epsilon_r = 38.0$ $\rho = 1.00$ g/cm³Cubes (2): SAR (1g): 0.622 mW/g \pm 0.00 dB, SAR (10g): 0.322 mW/g \pm 0.01 dB, (Worst-case extrapolation)

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

PY7A1021061,S/N:TP810200N1;frequency 1850MHz(ch512), Left Hand Side,Cheek

(94°) Phone Position, meas. Power=30.52dBm, Nom.Power=30.6dBm; ambien temprature

23(c-degree)and humidity 40%,Date:050607



D1900 V2

SAM 4 Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz

Probe: ET3DV6 - SN1582; ConvF(4.68,4.68,4.68); Crest factor: 1.0; Muscle 1900: $\sigma = 1.54$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 3.78 mW/g ± 0.03 dB, SAR (10g): 1.96 mW/g ± 0.03 dB, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 17.0

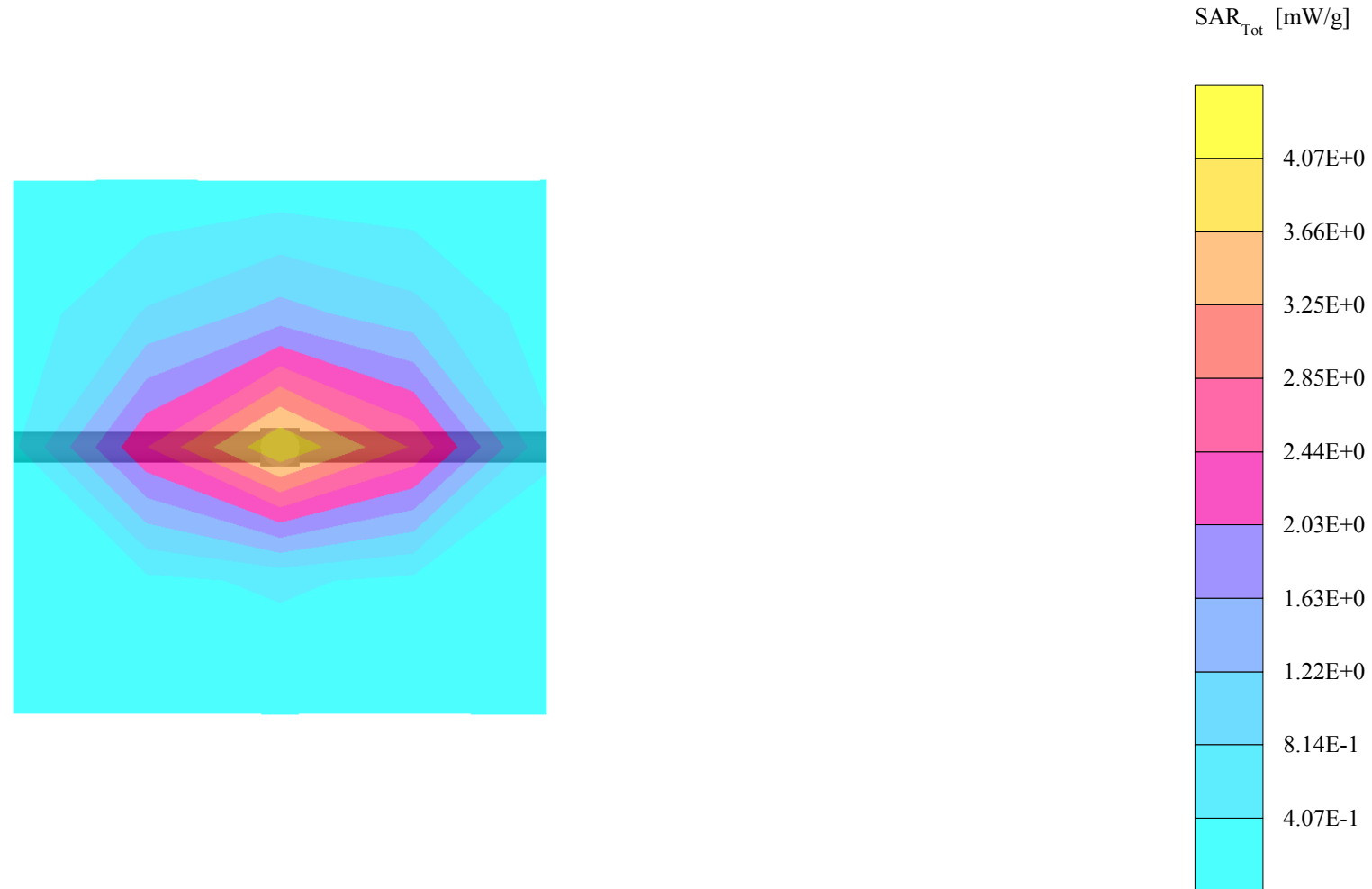
Powerdrift: -0.04 dB

P=100mW, d=10mm, 1900MHz dipol D1900V2 s/n 5d002

Target values: 1g mass 37.9mW/g, 10g mass 20mW/g

Measured values: 1g mass 37.8mW/g(-0,3%), 10g mass 19.6mW/g(-2%)

BODY LIQUID'S Temperature 22°C ; Room's Temperature 23°C, Humidity 40%



PY7A1021062

SAM 4 Phantom; Flat Section; Position: (270°,90°); Frequency: 1850 MHz

Probe: ET3DV6 - SN1582; ConvF(4.68,4.68,4.68); Crest factor: 8.0; Muscle 1900: $\sigma = 1.54$ mho/m $\epsilon_r = 51.5$ $\rho = 1.00$ g/cm³Cubes (3): SAR (1g): 0.326 mW/g ± 0.13 dB, SAR (10g): 0.198 mW/g ± 0.12 dB, (Worst-case extrapolation)

Cube 5x5x7: Dx = 8.0, Dy = 8.0, Dz = 5.0

PY7A1021061,S/N:TP810200N1;frequevcy 1850MHz(ch512), Back side phone with 15mm distance from flat section of the phantom;meas. Power=30.52dBm, Nom.Power=30,6dBm;ambien temprature23(c-degree)and humidity 40%,Date:050606

