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

No.

BGGIN05:097

Approved

Checked

Date

Rev

Reference

LD/SEMC/BGGI/NM *Ramadan Plicanic*

050426

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File

Report issued by Accredited SAR Laboratory

for

PY7A1022011

Date of test: *14-15-17, April, 2005*

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Statement of Compliance

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

Sony Ericsson Type AAB-1022011-BV; FCC ID:PY7A1022011;IC:4170B-A1022011

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 PY7A1022011 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	PY7A1022011
Serial number	692287-5
Mode	GSM1900
Multiple Access Scheme	TDMA
Maximum Output Power Setting	30.0dBm
Factory Tolerance in Power Setting	±0.5dBm
Maximum Peak Output Power for GPRS	28.5±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	419	032006
E-field probe ETDV6	1585	032006
Dipole Validation Kit, D1900V2	5d002	032006

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



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5 Electrical parameters on the tissue simulating liquid

Prior to conducting SAR measurements, the relative permittivity, ϵ_r , and the conductivity, σ , 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 σ and mass density ρ are also shown.

f (MHz)	Tissue type	Limits / Measured	Dielectric Parameters		
			ϵ_r	σ (S/m)	ρ (g/cm ³)
1900	Head	Measured, 15/04/2005	39.7	1.44	1.00
		Recommended	40.0	1.40	1.00
1900	Body	Measured, 17/04/2005	51.1	1.49	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 23.5 °C and humidity 24%. 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 0.00001mW/g in 1g mass.

f (MHz)	Tissue type	Measured / Reference	SAR (W/kg) 1g/10g	Dielectric Parameters			Liquid t(°C)
				ϵ_r	σ (S/m)	ρ (g/cm ³)	
1900	Head	Measured, 14/04/2005	43.3/22.2	39.7	1.44	1.00	23
		Measured, 15/04/2005	43.0/22.1	39.7	1.44	1.00	23
		Reference	41.6/21.5	38.8	1.44	1.00	-
1900	Head	Measured, 17/04/2005	43.1/22.6	51.1	1.49	1.00	23.5
		Reference	43.2/22.4	51.2	1.59	1.00	-



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7 SAR measurement uncertainty

SAR measurement uncertainty evaluation for Sonyericsson PY7A1022011 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	√3	0.5	±1.4	±1.4
Spherical Isotropy	±9.6	R	√3	0.5	±2.8	±2.8
Spatial resolution	±0.0	R	√3	1	±0.0	±0.0
Boundary effect	±5.5	R	√3	1	±3.2	±3.2
Probe linearity	±4.7	R	√3	1	±2.7	±2.7
Detection limit	±1.0	R	√3	1	±0.6	±0.6
Readout electronics	±1.0	N	1	1	±1.0	±1.0
Response time	±0.8	R	√3	1	±0.5	±0.5
Integration time	±1.4	R	√3	1	±0.8	±0.8
RF Ambient Conditions	±3.0	R	√3	1	±1.7	±1.7
Mech. Constraints of robot	±0.4	R	√3	1	±0.2	±0.2
Probe positioning	±2.9	R	√3	1	±1.7	±1.7
Extrap, interpolation and integration	±3.9	R	√3	1	±2.3	±2.3
Measurement System Uncertainty					±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	-3.5/2.1	R	√3	1	-2.0	-1.2
Test Sample Related Uncertainty					±9.1	±9.0
Phantom and Tissue Parameters						
Phantom uncertainty	±4.0	R	√3	1	±2.3	±2.3
Liquid conductivity (meas)	+2.8/-2	R	√3	0.6	+1.0	-0.7
Liquid conductivity (target)	±5.0	R	√3	0.6	±1.7	±1.7
Liquid Permittivity (meas)	-0.08/-4.1	R	√3	0.6	-0.03	-1.4
Liquid Permittivity (target)	±5.0	R	√3	0.6	±1.7	±1.7
Phantom and Tissue Parameters Uncertainty					±3.5	±3.7
Combined standard uncertainty					±12.5	±12.5
Extended standard uncertainty (k=2)					±25.0	±25.0



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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 (22-25) % and (23-24) °C respectively.

The depth of the head and body tissue simulating liquids were 15.6cm 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. GPRS measurements are done only for back side of the phone for all three different channels

For Blue Tooth mode the phone was paired with Sony Ericsson HBH-60 Blue tooth head set and measured only on the worst case on both head and Body positions.

Mode	Chanel	Power (dB)	Phone Position	Liquid t (°C)	SAR (W/kg)	
					Right-hand 1g mass	Left-hand 1g mass
1900 GSM	512	30.4	Cheek	22-23	0.91	0.73
			Tilt-Blue tooth	22-23	0.95	-
			Tilt	22-23	0.96	0.86
	661	30.4	Cheek	22-23	0.51	0.40
			Tilt	22-23	0.56	0.45
			Cheek	22-23	0.25	0.21
810	30.4	Tilt	22-23	0.27	0.22	

Table1: SAR measurement result for Sony Ericsson PY7A1022011 telephone at highest possible output power. Measured against the head.

Mode	Channel	Power (dBm)	Phone Position	Liquid t (°C)	SAR (W/kg) in 1 g mass
GSM 1900 Body	512	30.4	Front to phantom	22-23	0.16
			Antenna to phantom	22-23	0.72
			Antenna to phantom Blue Tooth	22-23	0.73
	661	30.4	Antenna to phantom, GPRS 2 Slots	22-23	0.97
			Front to phantom	22-23	0.08
			Antenna to phantom	22-23	0.44
	810	30.4	Antenna to phantom, GPRS 2 Slots	22-23	0.79
			Front to phantom	22-23	0.06
			Antenna to phantom	22-23	0.24
		28.3	Antenna to phantom, GPRS 2 Slots	22-23	0.40

Table2: SAR measurement result for Sony Ericsson PY7A1022011 telephone at highest possible output power. Measured 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

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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.

D1900 V2

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 1.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 4.31 mW/g ± 0.00 dB, SAR (10g): 2.26 mW/g ± 0.03 dB, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0

Powerdrift: 0.06 dB

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

Target values: 1g mass 43.2mW/g, 10g mass 22.4 mW/g

Measured values: 1g mass 43.5mW/g(+0,7%), 10g mass 22.4 mW/g(+0%)

BODY LIQUID'S Temperature 23.5C ; Room's Temperature 27, Humidity 24%



D1900 V2

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

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 1.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 4.30 mW/g ± 0.05 dB, SAR (10g): 2.21 mW/g ± 0.04 dB, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0

Powerdrift: 0.03 dB

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

Target values: 1g mass 41.6 mW/g, 10g mass 21.5 mW/g

Measured values: 1g mass 43.0mW/g(+3.4%), 10g mass 22.1mW/g(+2.8%)

LIQUID'S Temperature 23C, Ambeint Temprature 23.5C ,humidity 24%



D1900 V2

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

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 1.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 4.33 mW/g \pm 0.03 dB, SAR (10g): 2.22 mW/g \pm 0.04 dB, (Worst-case extrapolation)

Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0

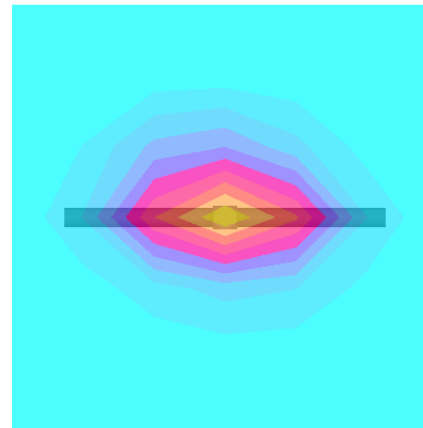
Powerdrift: 0.06 dB

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

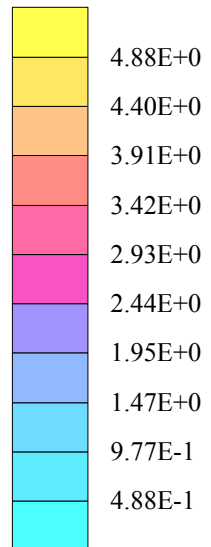
Target values: 1g mass 41.6 mW/g, 10g mass 21.5 mW/g

Measured values: 1g mass 43.3mW/g(+4.1%), 10g mass 22.2mW/g(+3.3%)

LIQUID'S Temperature 23C, Ambeint Temperature 23.5C ,humidity 24%



SAR_{Tot} [mW/g]



PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 8.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.717 mW/g, SAR (10g): 0.413 mW/g, (Worst-case extrapolation)

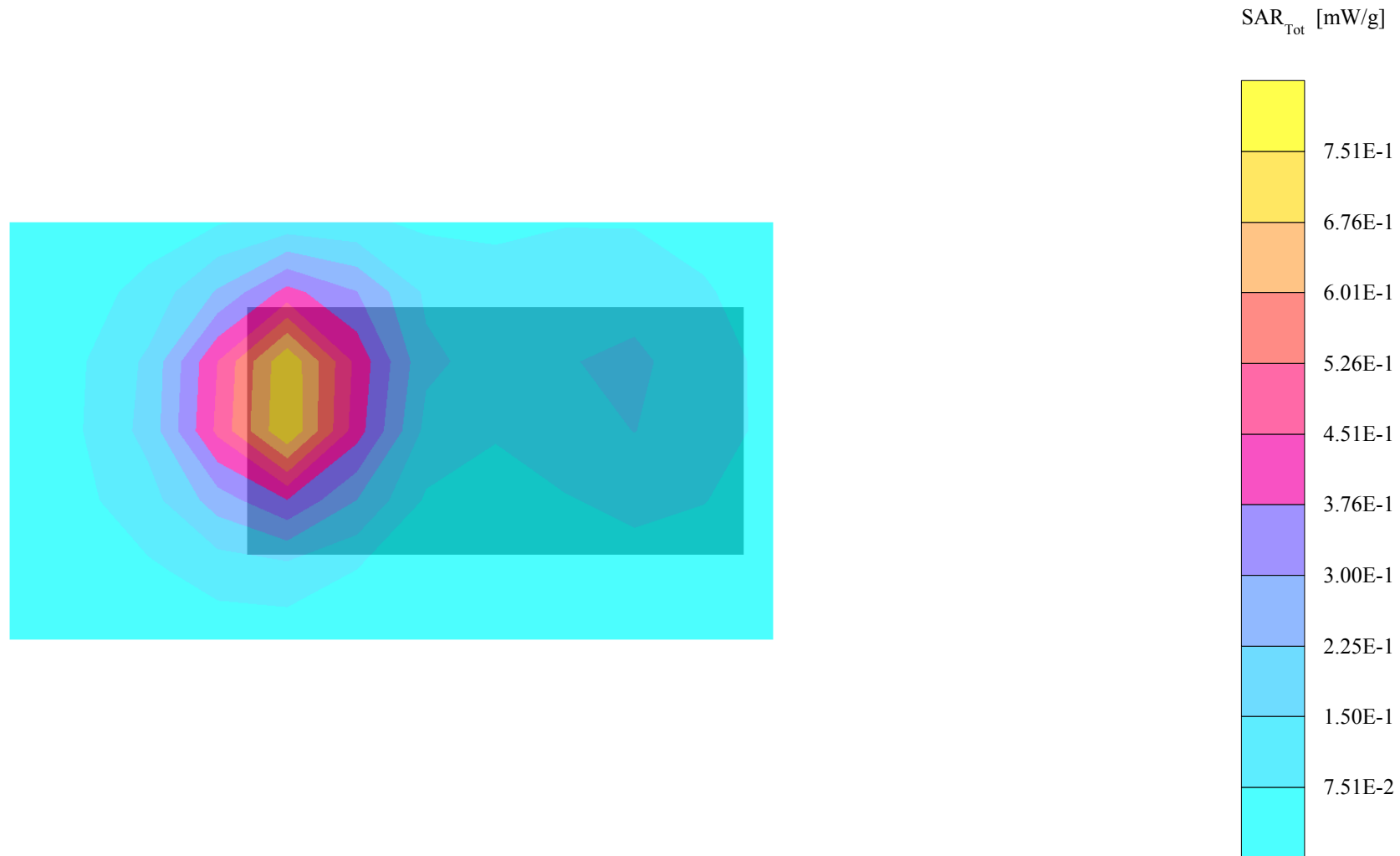
Coarse: Dx = 14.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.02 dB

PY7A1022011,IMEI:92287-5 ;1850MHz(ch512), Back Side Phone with 15mm distance from

flat section of Phantom, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050417

Ambient temprature 23(c-degree),Humidity 24% ;liquid temprature 23(c-degree)



PY7A1022011

SAM 4 Phantom; Righ Hand Section; Position: (103°,301°); Frequency: 1880 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.269 mW/g, SAR (10g): 0.148 mW/g, (Worst-case extrapolation)

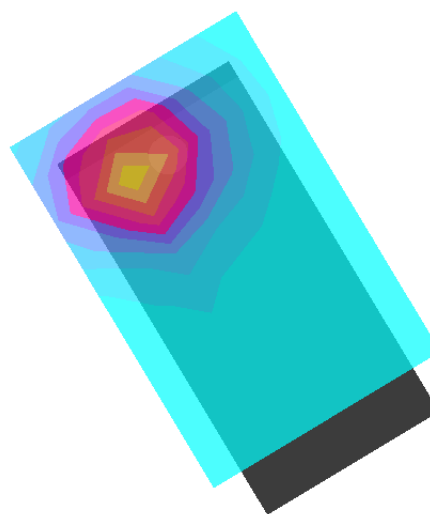
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0

Powerdrift: -0.15 dB

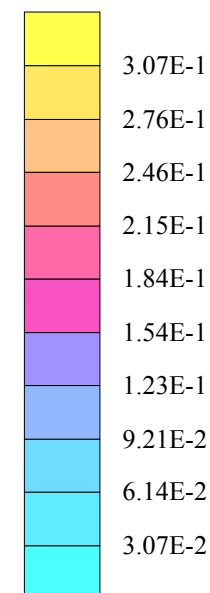
AAB-1022011-BV,IMEI:92287-5 ;1910MHz(ch810), Right Hand Side,Tilt(103°) Phone

Position, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)

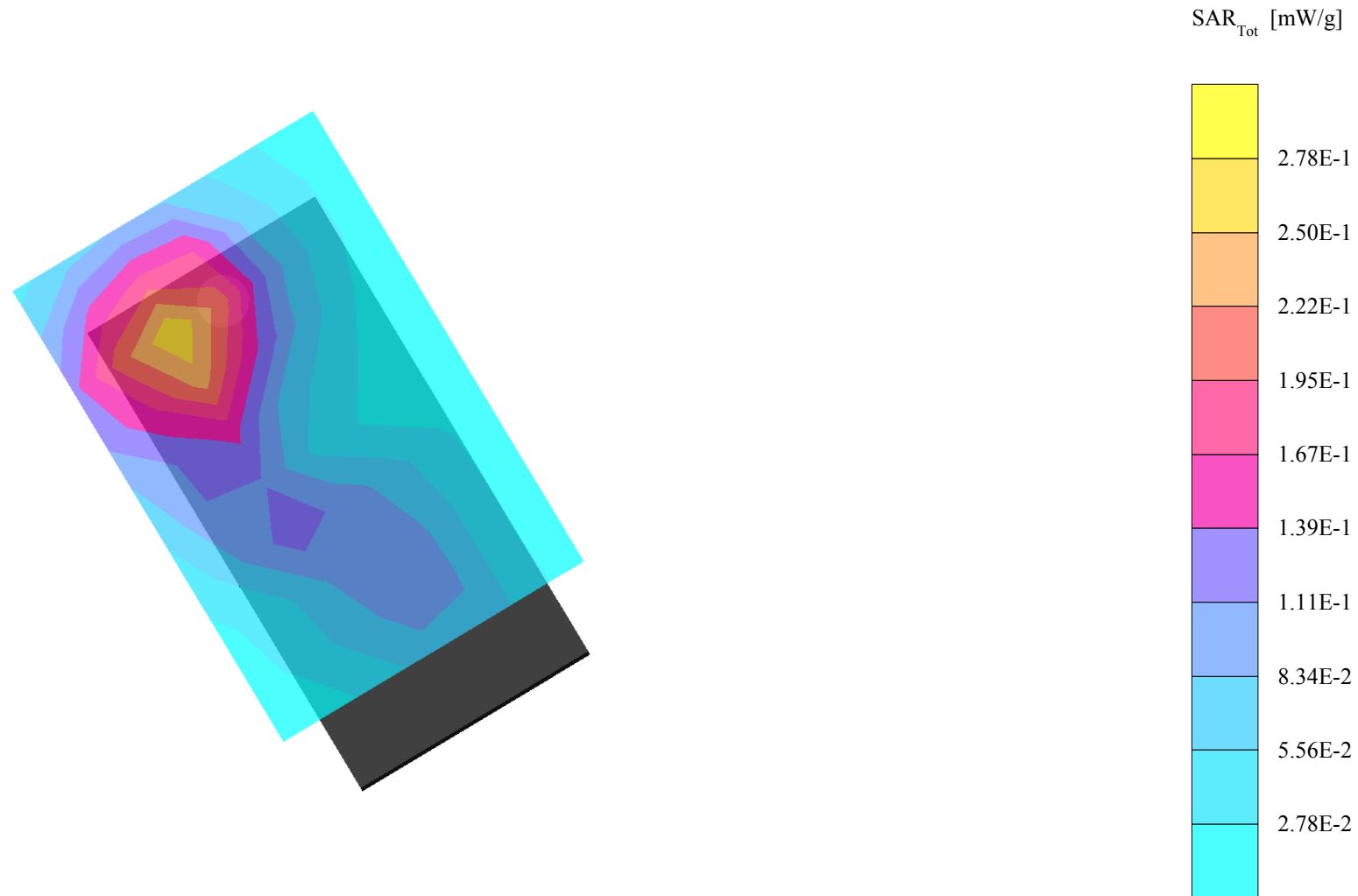


SAR_{Tot} [mW/g]



PY7A1022011

SAM 4 Phantom; Righ Hand Section; Position: (88°,301°); Frequency: 1910 MHz
Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.252 mW/g, SAR (10g): 0.136 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: 0.02 dB
PY7A1022011,IMEI:92287-5 ;1910MHz(ch810), Right Hand Side,Cheek(88°) Phone Position,
meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415Ambient temprature 23(c-degree),
Humidity 24% ; liquid temprature 23(c-degree)



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SAM 4 Phantom; Left Hand Section; Position: (103°,59°); Frequency: 1910 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.222 mW/g, SAR (10g): 0.125 mW/g, (Worst-case extrapolation)

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

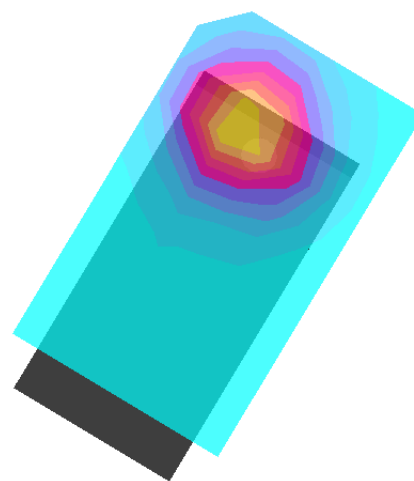
Powerdrift: -0.22 dB

PY7A1022011,IMEI:92287-5 ;1910MHz(ch810), Left Hand Side,Tilt(103°) Phone Position,

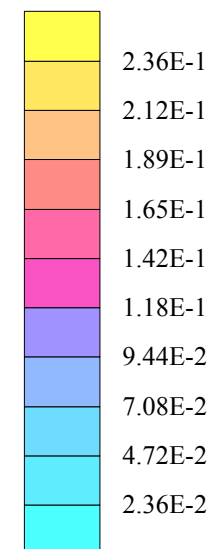
meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415; Ambient temprature 23(c-degree),

Humidity 24% ;

liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

SAM 4 Phantom; Left Hand Section; Position: (88°,59°); Frequency: 1910 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cubes (2): SAR (1g): 0.205 mW/g ± 0.07 dB, SAR (10g): 0.112 mW/g ± 0.06 dB, (Worst-case extrapolation)

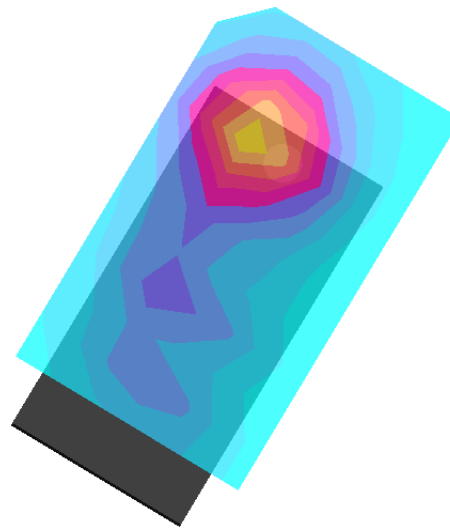
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0

Powerdrift: -0.14 dB

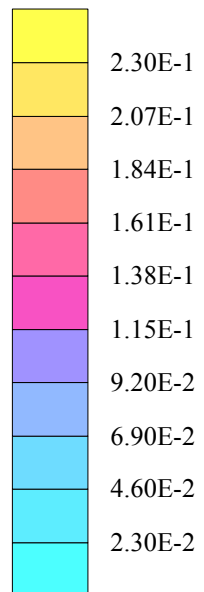
PY7A1022011,IMEI:92287-5 ;1910MHz(ch810), Left Hand Side,Cheek(88°) Phone

Position, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 8.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

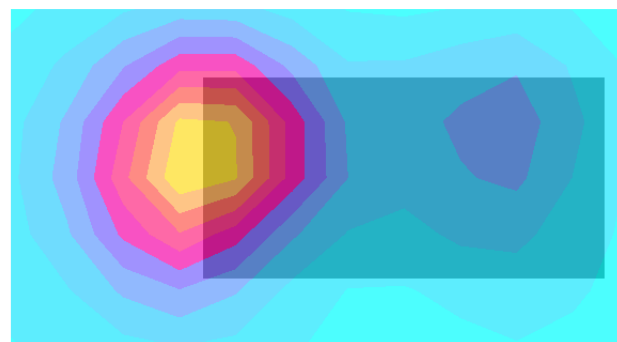
Cube 5x5x7: SAR (1g): 0.0597 mW/g, SAR (10g): 0.0364 mW/g, (Worst-case extrapolation)

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

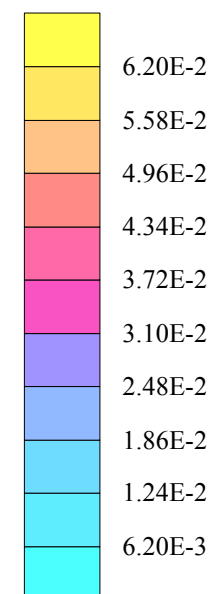
Powerdrift: -0.10 dB

PY7A1022011;IMEI:92287-5 ;1910MHz(ch810), Front Side Phone with 15mm distance from flat section of Phantom, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050417

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 4.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.401 mW/g, SAR (10g): 0.227 mW/g, (Worst-case extrapolation)

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

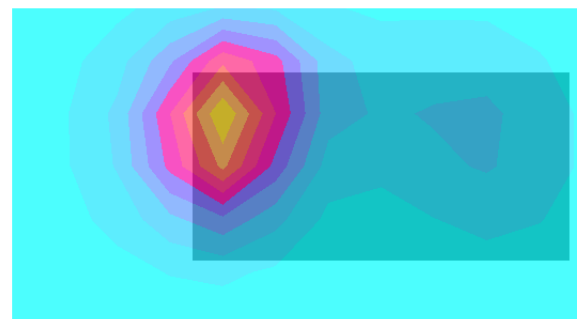
Powerdrift: -0.21 dB

PY7A1022011,IMEI:92287-5 ;1910MHz(ch810), Back Side Phone with 15mm distance

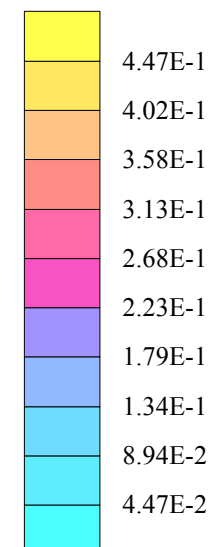
from flat section of Phantom,GPRS measurement 2 Slots;meas. Power=28.9dBm,

Nom.Power=29dBm; 050418;Ambient temprature 23(c-degree),Humidity 24% ;

liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 8.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.240 mW/g, SAR (10g): 0.139 mW/g, (Worst-case extrapolation)

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

Powerdrift: 0.02 dB

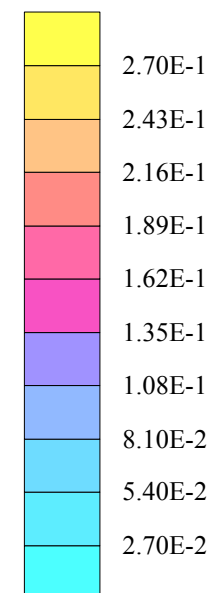
PY7A1022011,IMEI:92287-5 ;1910MHz(ch810), Back Side Phone with 15mm distance from

flat section of Phantom, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050417

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)

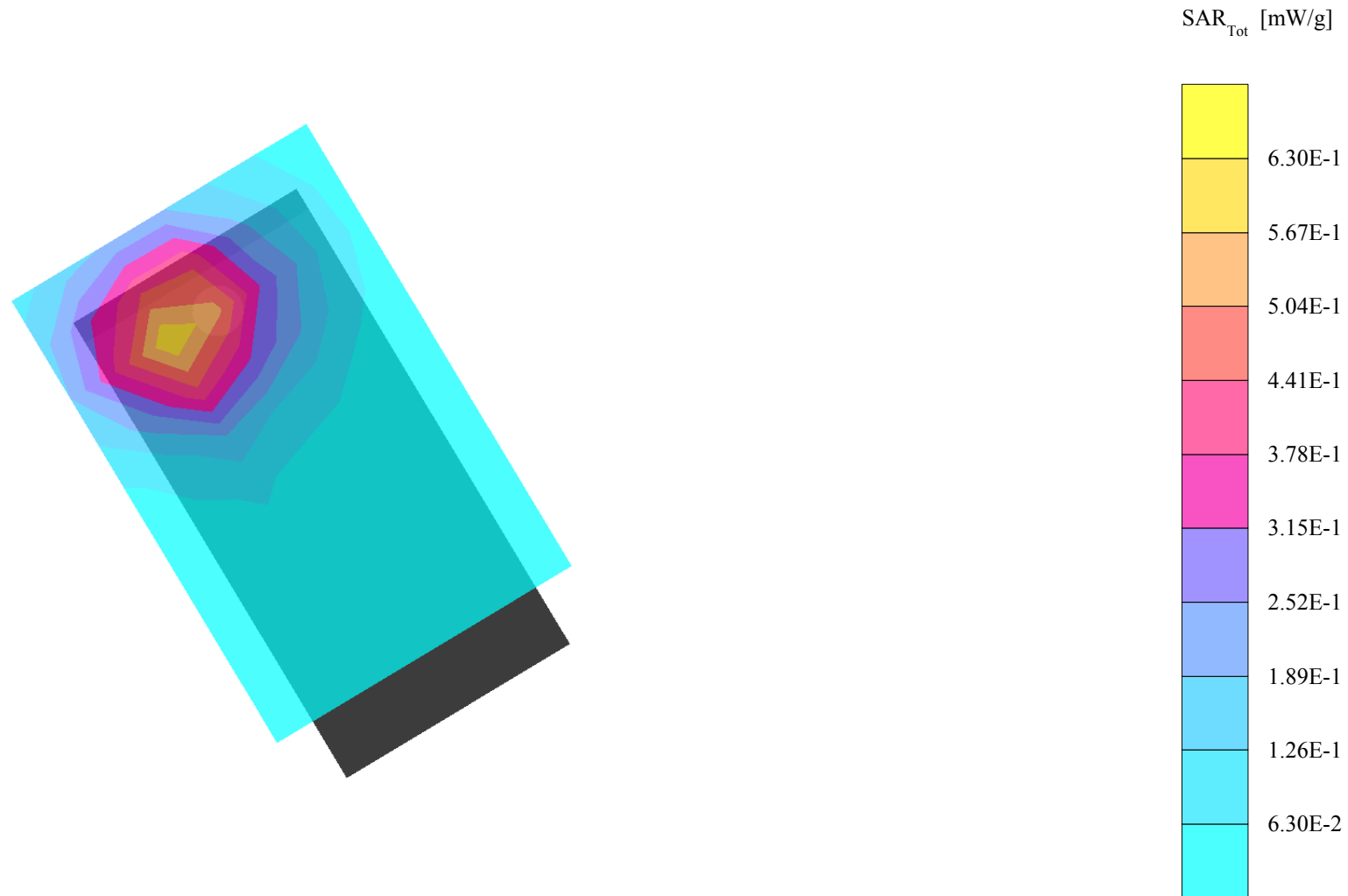


SAR_{Tot} [mW/g]



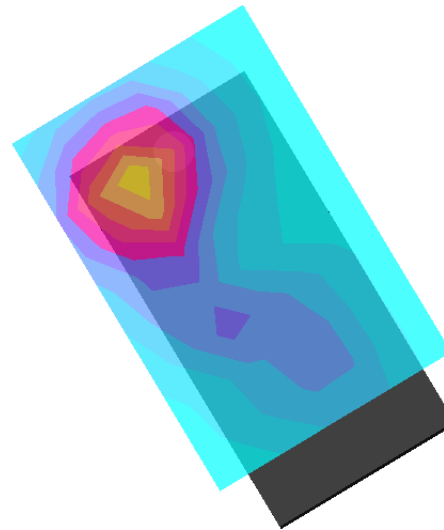
PY7A1022011

SAM 4 Phantom; Righ Hand Section; Position: (103°,301°); Frequency: 1880 MHz
Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.556 mW/g, SAR (10g): 0.304 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: -0.24 dB
PY7A1022011,IMEI:92287-5 ;1880MHz(ch661), Right Hand Side,Tilt(103°) Phone Position,
meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415; Ambient temprature 23(c-degree),
Humidity 24% ; liquid temprature 23(c-degree)

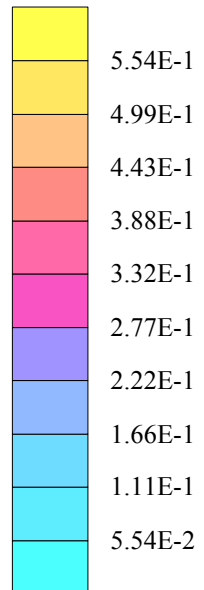


PY7A1022011

SAM 4 Phantom; Righ Hand Section; Position: (88°,301°); Frequency: 1880 MHz
Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.512 mW/g, SAR (10g): 0.274 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0
Powerdrift: 0.00 dB
PY7A1022011,IMEI:92287-5 ;1880MHz(ch661), Right Hand Side,Cheek(88°) Phone
Position, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415
Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

SAM 4 Phantom; Left Hand Section; Position: (103°,59°); Frequency: 1880 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.449 mW/g, SAR (10g): 0.252 mW/g, (Worst-case extrapolation)

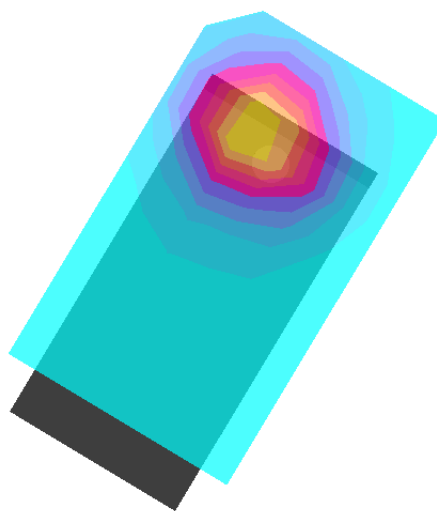
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0

Powerdrift: -0.19 dB

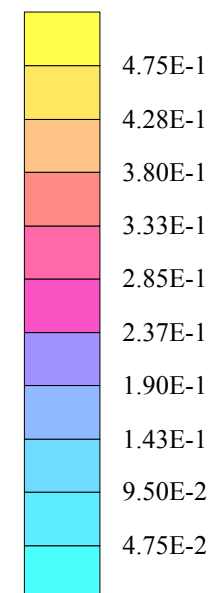
PY7A1022011IMEI:92287-5 ;1880MHz(ch661), Left Hand Side,Tilt(103°) Phone

Position, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

SAM 4 Phantom; Left Hand Section; Position: (88°,59°); Frequency: 1880 MHz

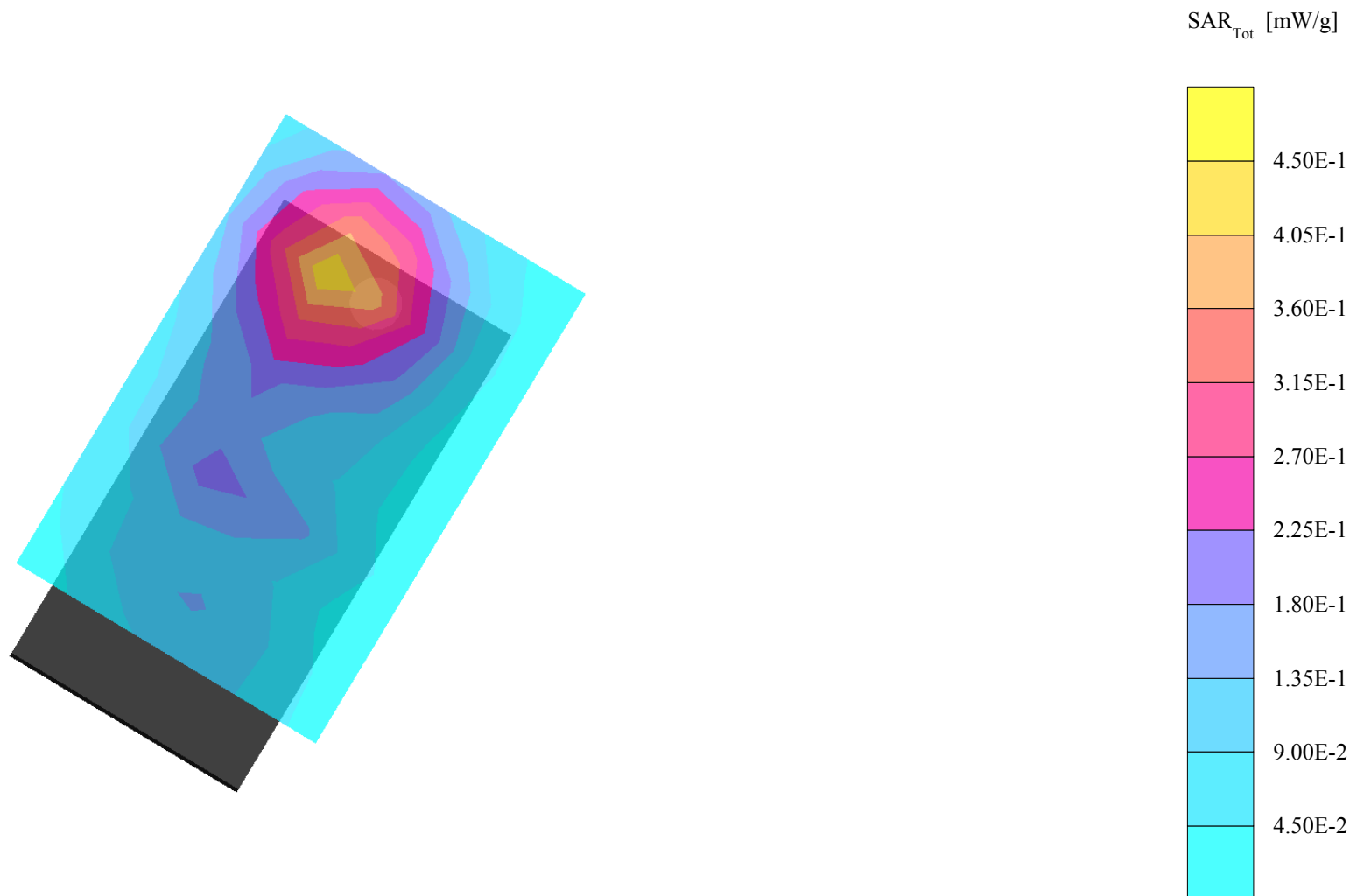
Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.404 mW/g, SAR (10g): 0.219 mW/g, (Worst-case extrapolation)

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

Powerdrift: -0.03 dB

PY7A1022011,IMEI:92287-5 ;1880MHz(ch661), Left Hand Side,Cheek(88°) Phone Position,
meas. Power=30.4dBm, Nom.Power=30.5dBm; 050414; Ambient temprature 23(c-degree),
Humidity 24% ; liquid temprature 23(c-degree)



PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 8.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

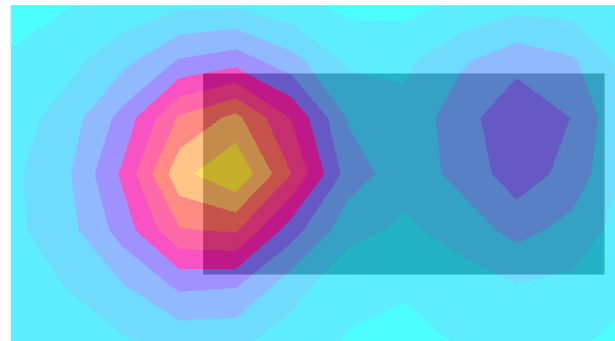
Cube 5x5x7: SAR (1g): 0.0833 mW/g, SAR (10g): 0.0515 mW/g, (Worst-case extrapolation)

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

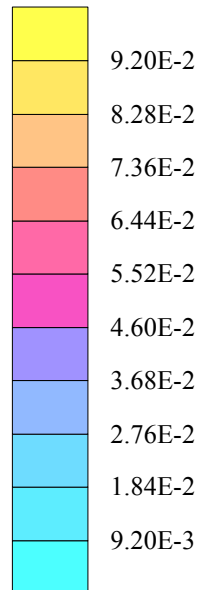
Powerdrift: -0.13 dB

PY7A1022011,IMEI:92287-5 ;1880MHz(ch661), Front Side Phone with 15mm distance from flat section of Phantom, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050417

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 8.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.443 mW/g, SAR (10g): 0.257 mW/g, (Worst-case extrapolation)

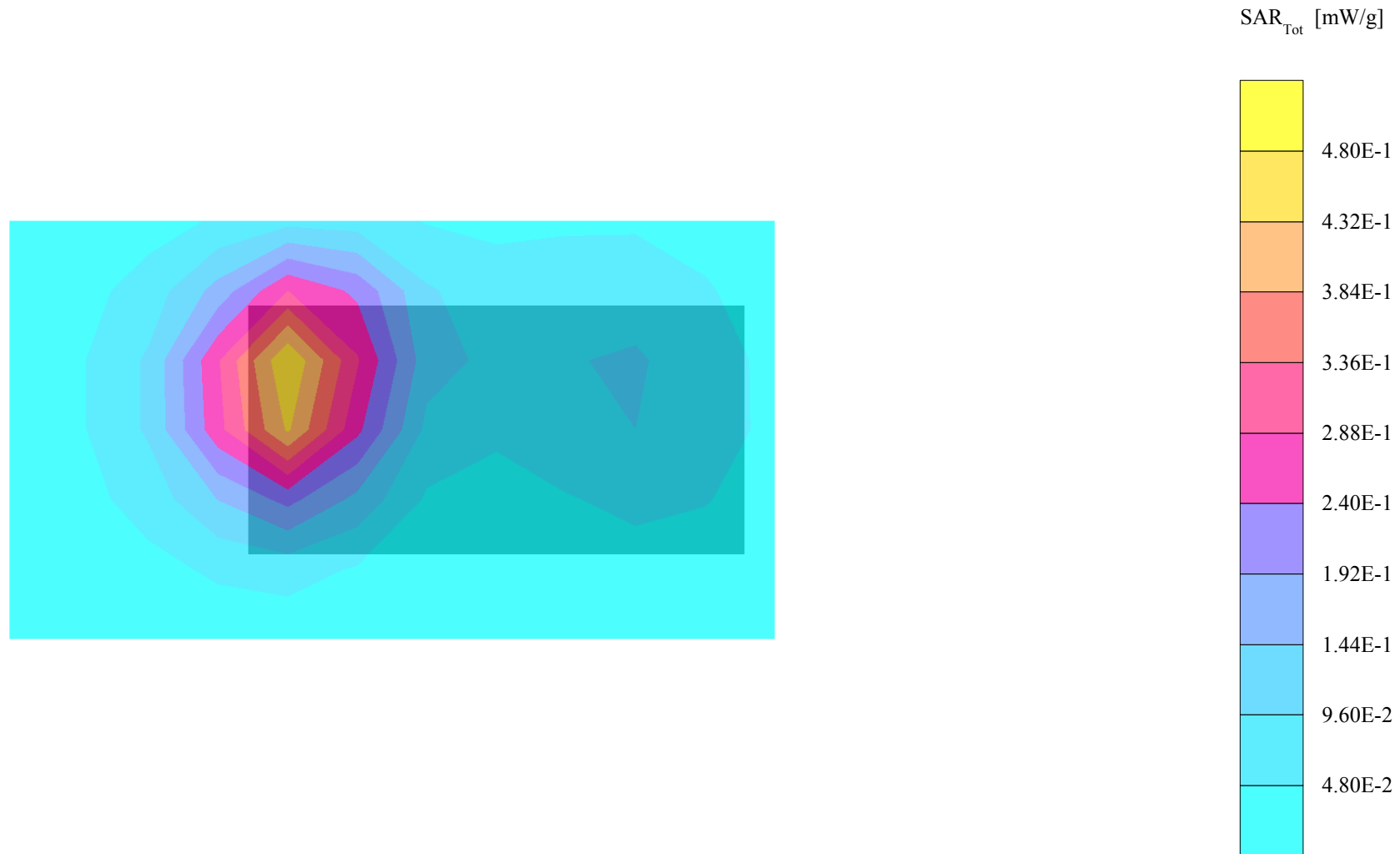
Coarse: Dx = 14.0, Dy = 14.0, Dz = 10.0

Powerdrift: -0.25 dB

AAB-1022011-BV,IMEI:92287-5 ;1880MHz(ch661), Back Side Phone with 15mm distance from

flat section of Phantom, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050417

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



PY7A1022011

SAM 4 Phantom; Righ Hand Section; Position: (103°,301°); Frequency: 1850 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.950 mW/g, SAR (10g): 0.524 mW/g, (Worst-case extrapolation)

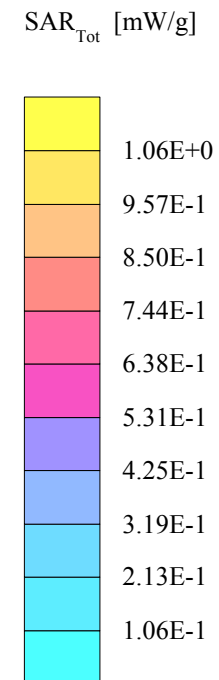
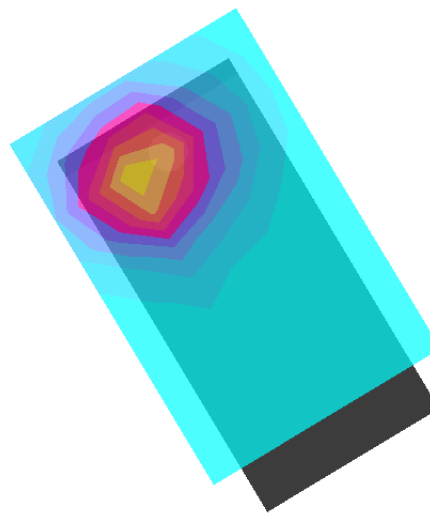
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0

Powerdrift: 0.00 dB

PY7A1022011,IMEI:92287-5 ;1850MHz(ch512), Right Hand Side,TILT(103°) Phone Position

Blue tooth in connection with hand free HPH060;meas.Power=30.4dBm,Nom.Power=30.5dBm;

050415,Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



PY7A1022011

SAM 4 Phantom; Righ Hand Section; Position: (103°,301°); Frequency: 1850 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.956 mW/g, SAR (10g): 0.524 mW/g, (Worst-case extrapolation)

Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0

powerdrift:-0.15

PY7A1022011,IMEI:92287-5 ;1850MHz(ch512), Right Hand Side,TILT(103°) Phone Position,
meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415; Ambient temprature 23(c-degree),
Humidity 24% ; liquid temprature 23(c-degree)



PY7A1022011

SAM 4 Phantom; Righ Hand Section; Position: (88°,301°); Frequency: 1850 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.910 mW/g, SAR (10g): 0.489 mW/g, (Worst-case extrapolation)

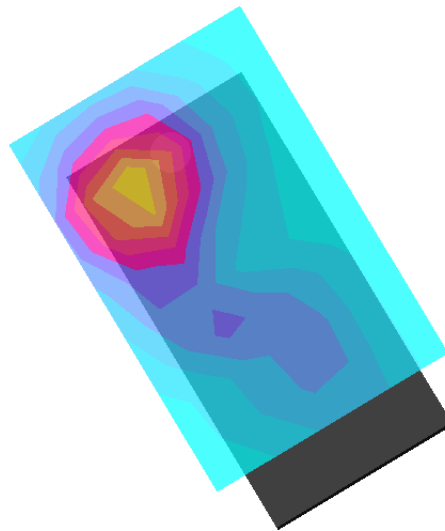
Coarse: Dx = 11.0, Dy = 11.0, Dz = 10.0

Powerdrift: 0.17 dB

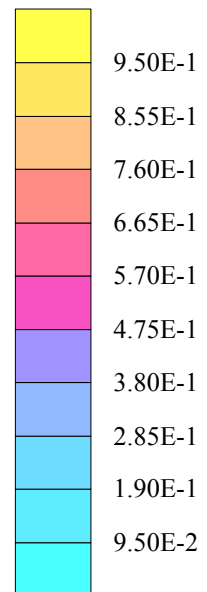
PY7A1022011,IMEI:92287-5 ;1850MHz(ch512), Right Hand Side,Cheek(88°) Phone Position,

meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415 ; Ambient temprature 23(c-degree),

Humidity 24% ; liquid temprature 23(c-degree)

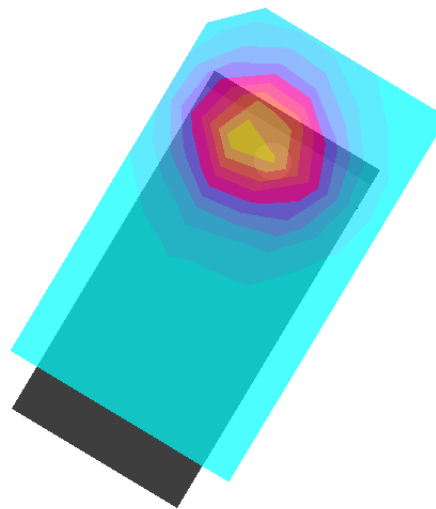


SAR_{Tot} [mW/g]

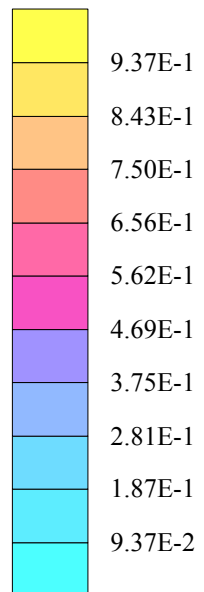


PY7A1022011

SAM 4 Phantom; Left Hand Section; Position: (103°,59°); Frequency: 1850 MHz
Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³
Cube 5x5x7: SAR (1g): 0.864 mW/g, SAR (10g): 0.485 mW/g, (Worst-case extrapolation)
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0
Powerdrift: -0.15 dB
PY7A1022011,IMEI:92287-5 ;1850MHz(ch512), Left Hand Side,Tilt(103°) Phone Position,
meas. Power=30.4dBm, Nom.Power=30.5dBm; 050415 ; Ambient temprature 23(c-degree),
Humidity 24% ; liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

SAM 4 Phantom; Left Hand Section; Position: (88°,59°); Frequency: 1850 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.723 mW/g, SAR (10g): 0.400 mW/g, (Worst-case extrapolation)

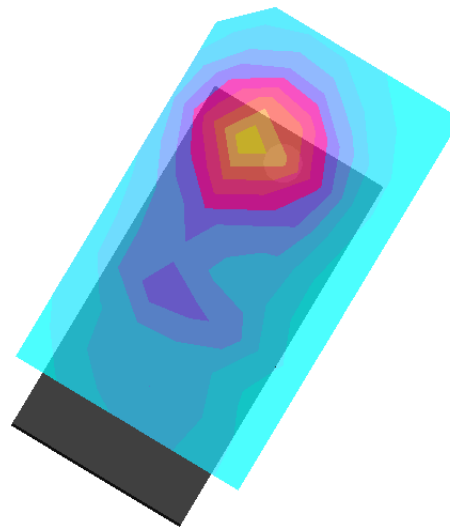
Coarse: Dx = 11.0, Dy = 11.0, Dz = 11.0

Powerdrift: -0.00 dB

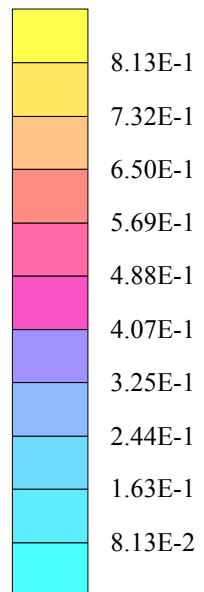
PY7A1022011,IMEI:92287-5 ;1850MHz(ch512), Left Hand Side,Cheek(88°) Phone

Position, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050414

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



SAR_{Tot} [mW/g]



PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 8.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.164 mW/g, SAR (10g): 0.102 mW/g, (Worst-case extrapolation)

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

Powerdrift: -0.11 dB

PY7A1022011,IMEI:92287-5 ;1850MHz(ch512), Front Side Phone with 15mm distance from

flat section of Phantom, meas. Power=30.4dBm, Nom.Power=30.5dBm; 050417

Ambient temprature 23(c-degree),Humidity 24% ; liquid temprature 23(c-degree)



PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 4.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.968 mW/g, SAR (10g): 0.552 mW/g, (Worst-case extrapolation)

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

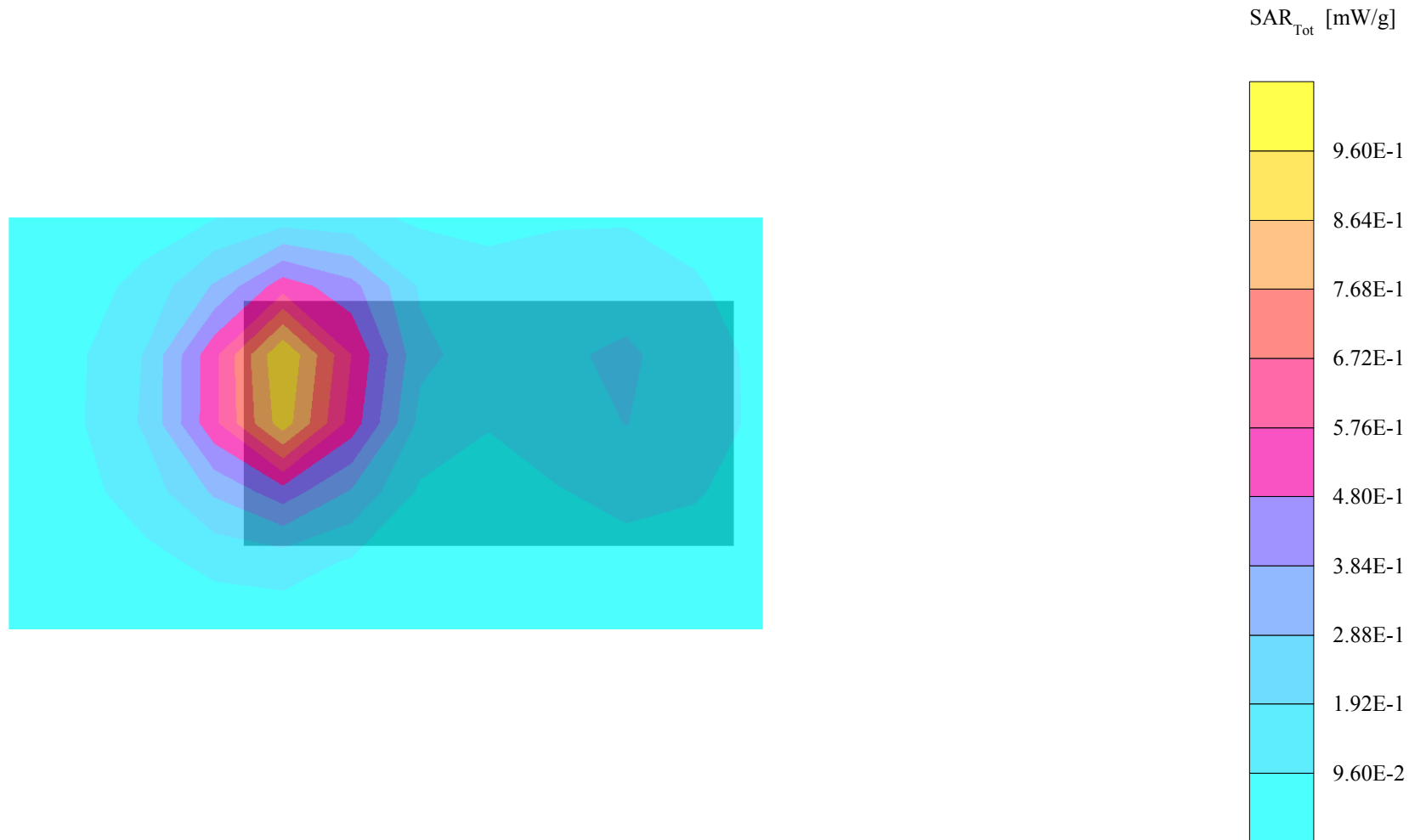
Powerdrift: -0.09 dB

PY7A1022011,IMEI:92287-5 ;1850MHz(ch512), Back Side Phone with 15mm distance

from flat section of Phantom,GPRS measurement 2 Slots;meas. Power=30.5dBm,

Nom.Power=30.4dBm; 050417;Ambient temprature 23(c-degree),Humidity 24% ;

liquid temprature 23(c-degree)



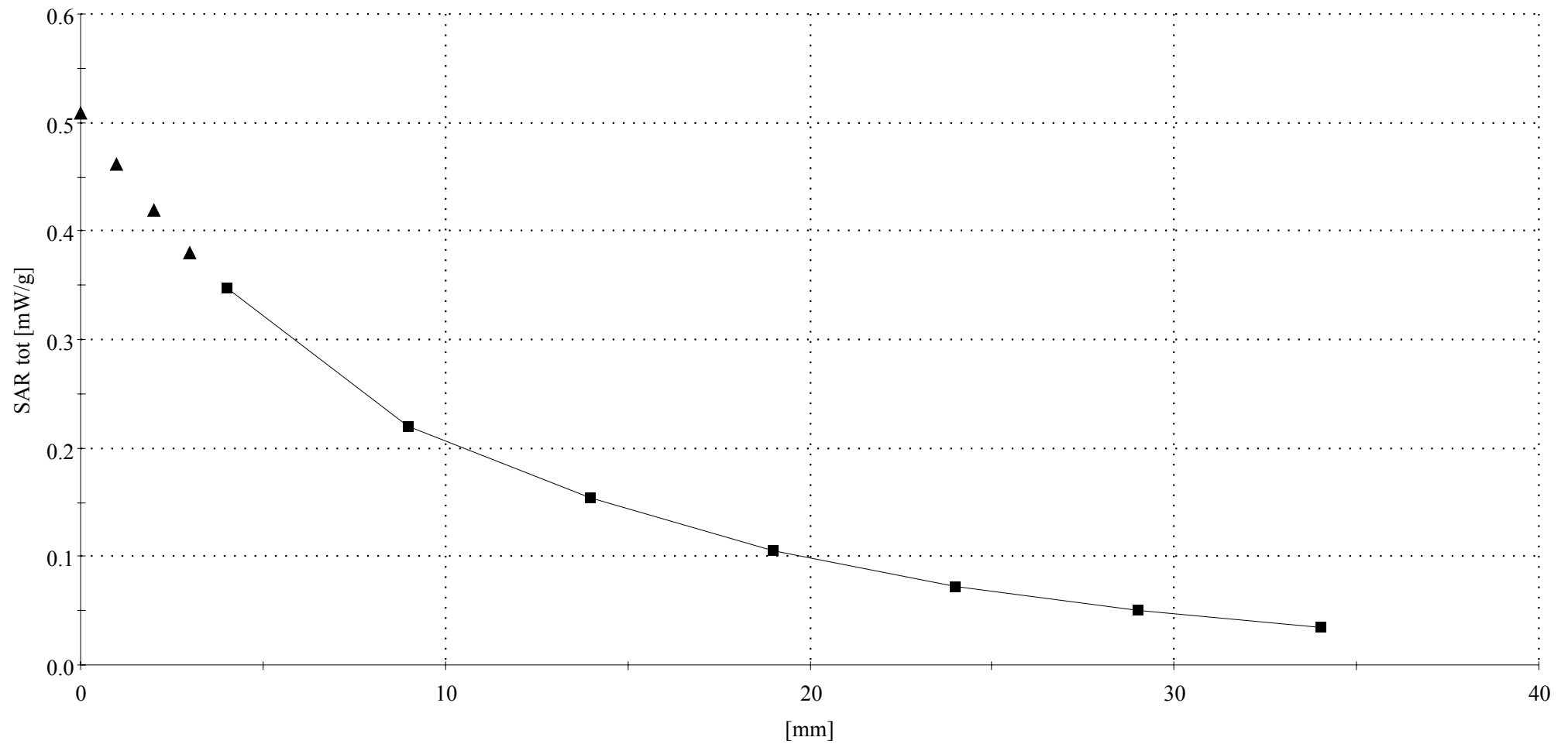
PY7A1022011

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

Probe: ET3DV6 - SN1585; ConvF(4.62,4.62,4.62); Crest factor: 4.0; Muscle 1900: $\sigma = 1.49$ mho/m $\epsilon_r = 51.1$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.968 mW/g, SAR (10g): 0.552 mW/g, (Worst-case extrapolation)

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



PY7A1022011

SAM 4 Phantom; Righ Hand Section; Position: (103°,301°); Frequency: 1850 MHz

Probe: ET3DV6 - SN1585; ConvF(5.03,5.03,5.03); Crest factor: 8.0; Head 1900MHz: $\sigma = 1.44$ mho/m $\epsilon_r = 39.7$ $\rho = 1.00$ g/cm³

Cube 5x5x7: SAR (1g): 0.956 mW/g, SAR (10g): 0.524 mW/g, (Worst-case extrapolation)

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

