



MOTOROLA

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Supplement to SAR Test Report for Motorola portable cellular phone (FCC ID IHDT56DS1)

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Summary of FCC request for additional information

There was a request for additional information regarding Motorola's SAR Test Report for Motorola portable cellular phone (FCC ID IHDT56DS1). The requested information is addressed below in the same numbering sequence received.

3. The network analyzer on p.4 of the SAR report is listed as being past its cal due date. Please address.

Response: Please look at the below updated table for test equipment:

Description	Serial Number	Cal Due Date
Signal Generator HP8648C	3847A04845	11/5/2004
Power Meter E4419B	GB39511086	02/06/2004
Power Sensor #1 - 8481A	US37296471	11/5/2003
Power Sensor #2 - 8481A	US37296473	11/5/2003
Network Analyzer HP8753ES	US39172529	6/18/2004
Dielectric Probe Kit HP85070B	US33020235	

4. The cellular band SAR plots list Power Step 5. Please confirm that measurements were performed at the highest available power output.

Response: All the tests in 850 MHz band were performed at the highest available power output at power step 5.

5. Please provide SAR data plots for: left head touch for both cellular and PCS; left head tilt for cellular; right head tilt for PCS.

Response: Please refer to appendix 1 of the supplement. The channels that had the highest SAR values for the requested configurations have been attached in appendix 1.

Appendix 1 (Requested SAR Plots)

SN# 5187500003373-8

Ch# 251 / Pwr Step: 5 (OTA) / Antenna Position: Internal / Battery Model #: SNN5679A / DEVICE POSITION (cheek or rotated): Cheek

R# 2 TP-1106 SUGAR SAM Expanded (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 849 MHz

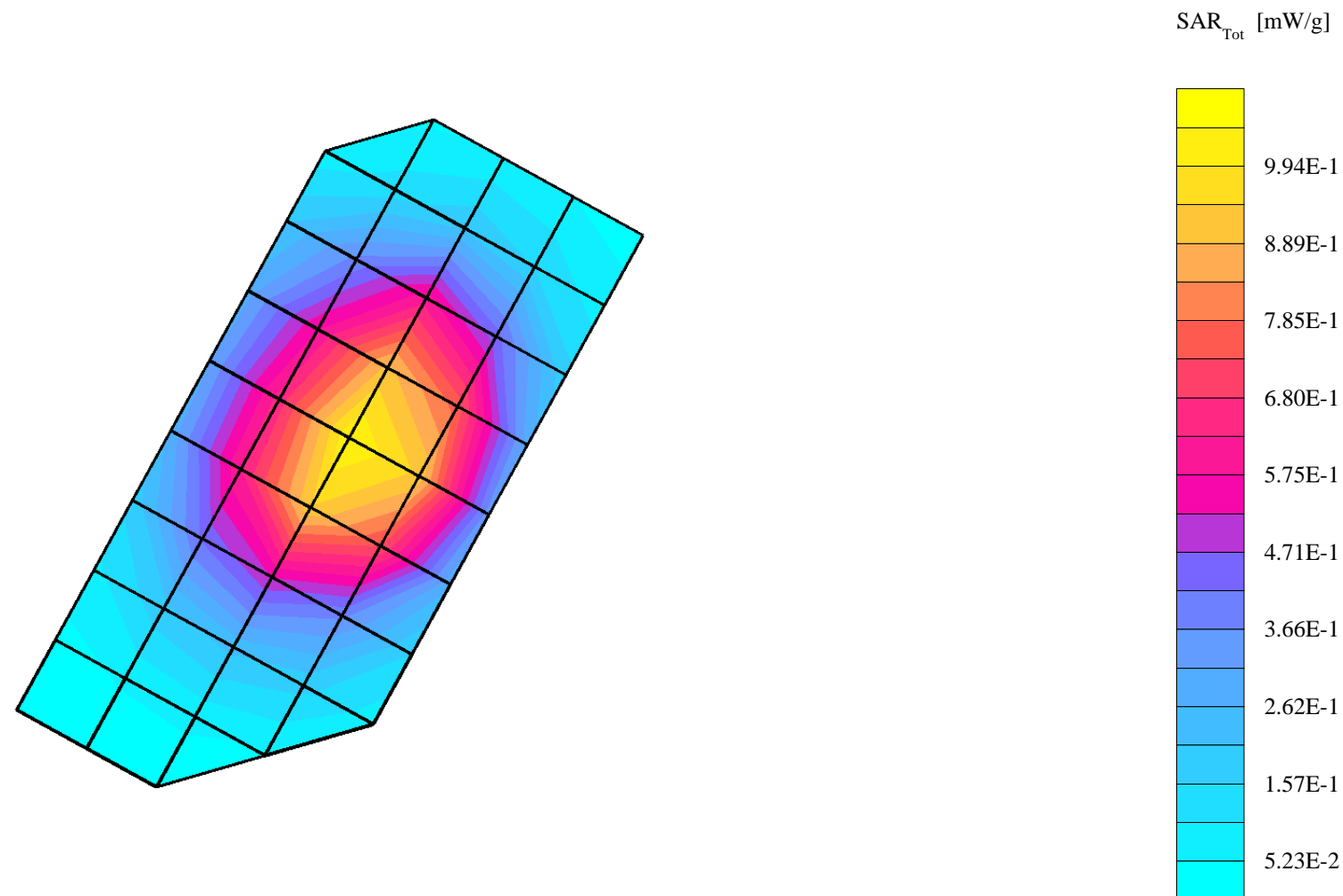
Probe: ET3DV6 - SN1522 - IEEE Head; ConvF(4.70,4.70,4.70); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.92$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 1.05 mW/g, SAR (10g): 0.721 mW/g, (Worst-case extrapolation)

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

Penetration depth: 15.7 (15.2, 16.2) [mm]

Powerdrift: -0.06 dB



SN# 35187500003373-8

Ch# 190 / Pwr Step: 5 (OTA) / Antenna Position: Internal / Battery Model #: SNN5680A / DEVICE POSITION (cheek or rotated): Tilted

R# 2 TP-1106 SUGAR SAM Expanded (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 837 MHz

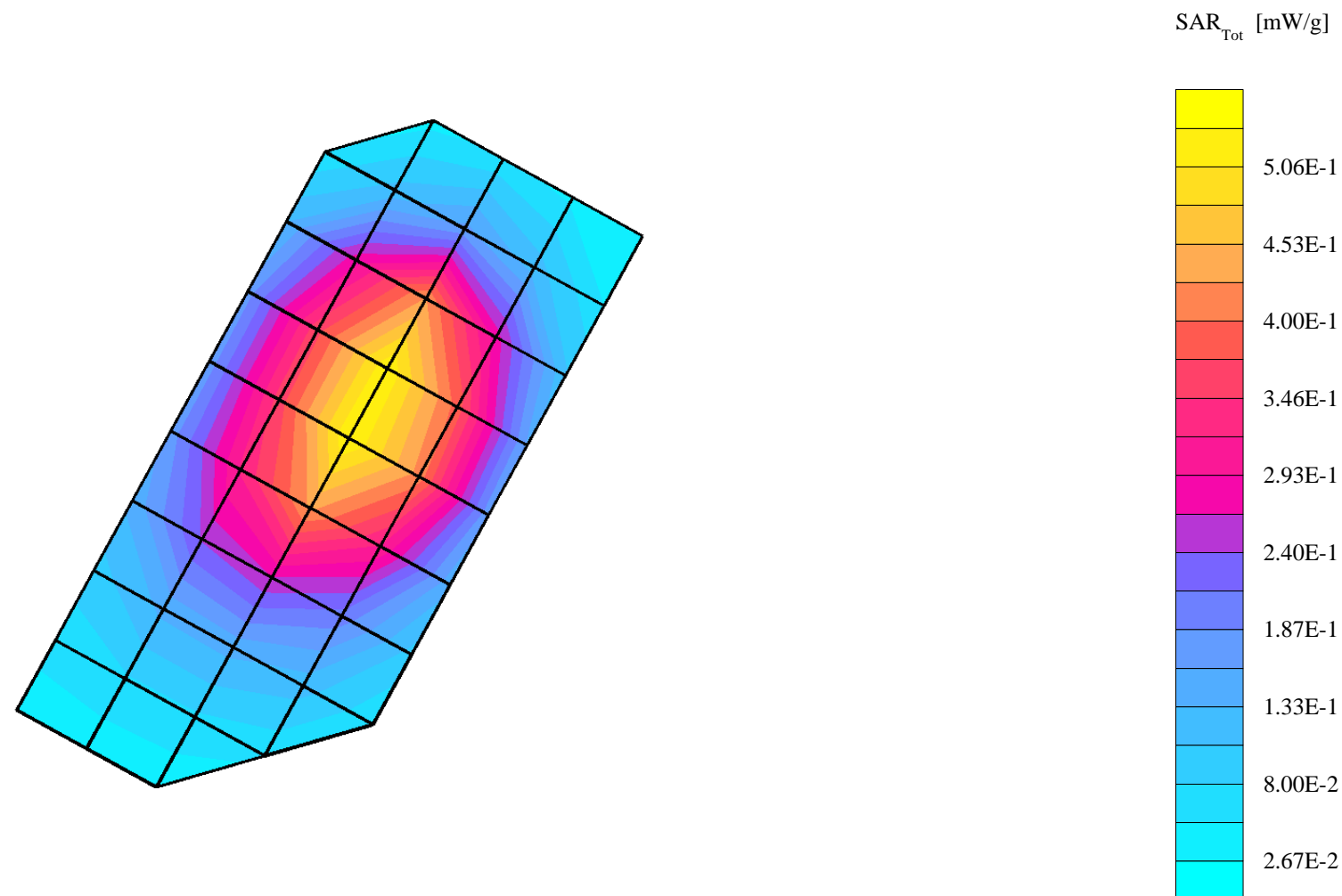
Probe: ET3DV6 - SN1522 - IEEE Head; ConvF(4.70,4.70,4.70); Crest factor: 8.0; 835 MHz Head & Body: $\sigma = 0.92$ mho/m $\epsilon_r = 42.5$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.531 mW/g, SAR (10g): 0.368 mW/g, (Worst-case extrapolation)

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

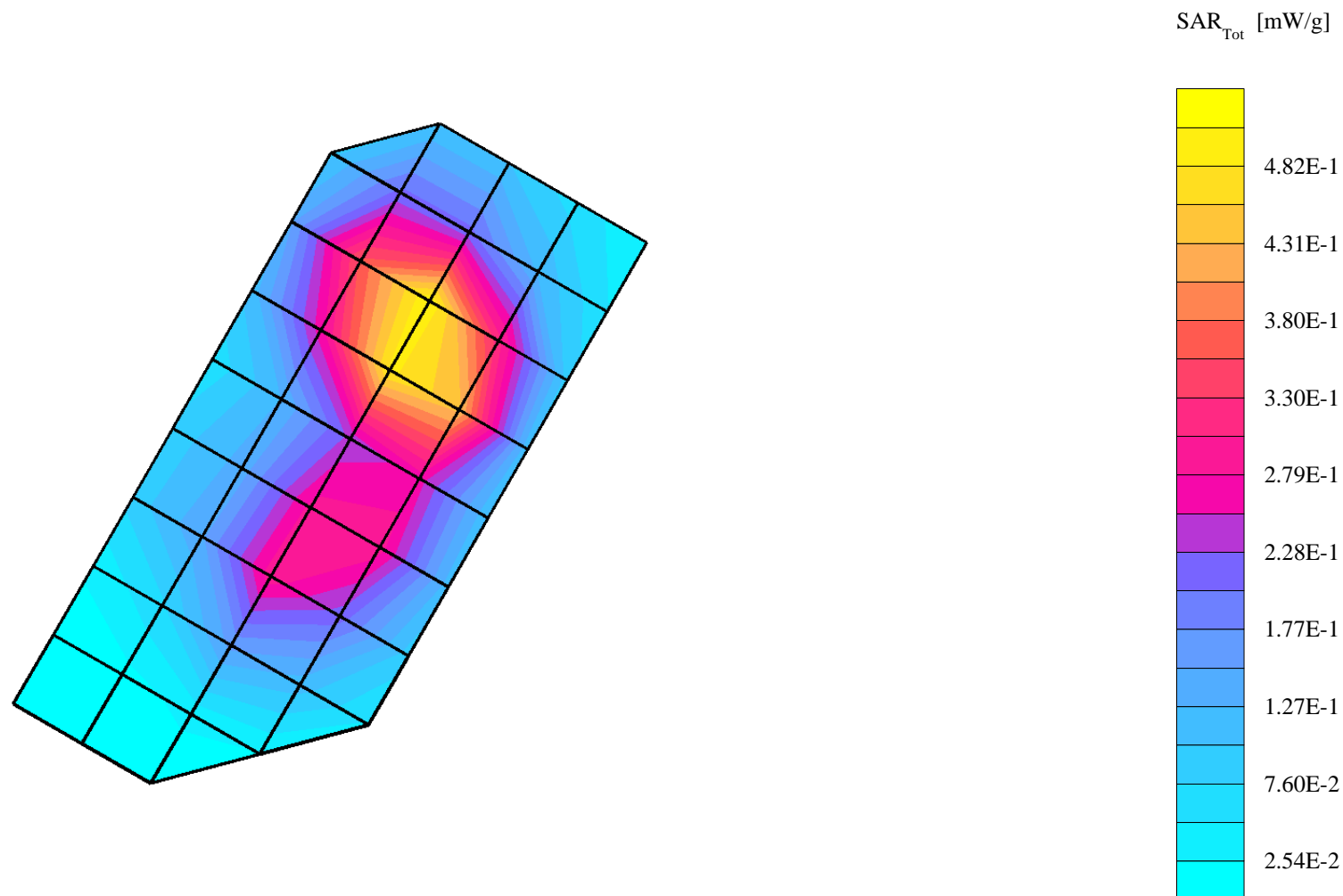
Penetration depth: 15.4 (14.8, 16.1) [mm]

Powerdrift: -0.05 dB



SN# 35187500003373-8

Ch# 661 / Pwr Step: 0 / Antenna Position: Internal / Battery Model #: SNN5679A / DEVICE POSITION (cheek or rotated): Cheek
R# 2 TP-1235 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Left Hand Section; Position: (90°,180°); Frequency: 1880 MHz
Probe: ET3DV6 - SN1522 - IEEE Head; ConvF(3.40,3.40,3.40); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.44$ mho/m $\epsilon_r = 38.2$ $\rho = 1.00$ g/cm³
Cube 7x7x7: SAR (1g): 0.574 mW/g, SAR (10g): 0.321 mW/g, (Worst-case extrapolation)
Coarse: Dx = 15.0, Dy = 15.0, Dz = 15.0
Penetration depth: 9.5 (9.2, 9.9) [mm]
Powerdrift: 0.04 dB



SN# 35187500003373-8

Ch# 661 / Pwr Step: 0 / Antenna Position: Internal / Battery Model #: SNN5679A / DEVICE POSITION (cheek or rotated): Rotated
R# 2 TP-1235 GLYCOL SAM Expanded (Rev. 2)-9Jan03 Phantom; Right Hand Section; Position: (90°,180°); Frequency: 1880 MHz
Probe: ET3DV6 - SN1522 - IEEE Head; ConvF(3.40,3.40,3.40); Crest factor: 8.0; 1880 MHz Head & Body: $\sigma = 1.44$ mho/m $\epsilon_r = 38.6$ $\rho = 1.00$ g/cm³

Cube 7x7x7: SAR (1g): 0.586 mW/g, SAR (10g): 0.310 mW/g, (Worst-case extrapolation)

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

Penetration depth: 9.0 (8.5, 9.8) [mm]

Powerdrift: 0.28 dB

