13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C) 21.7
Relative HUMIDITY (%) 58.4
Atmospheric PRESSURE (kPa) 99.3

Mixture Type: **835MHz Muscle**

Dielectric Constant: **56.2**

Conductivity: **0.95**

13.3 Measurement Results (CELLULAR CDMA Body SAR)

FREQUENCY MHz	FREQUENCY Ch.	Modulation	POWER * (dBm)	Separation Distance (cm)**	Antenna Position	SAR (W/kg)
824.70	1013	CDMA	24.0 [w/ Standard Battery]	1.0 cm [w/o Holster]	In	0.394
824.70	1013	CDMA	24.0 [w/ Standard Battery]	1.0 cm [w/o Holster]	Out	0.463
835.89	0363	CDMA	24.0 [w/ Standard Battery]	1.0 cm [w/o Holster]	In	0.353
835.89	0363	CDMA	24.0 [w/ Standard Battery]	1.0 cm [w/o Holster]	Out	0.484
848.31	0777	CDMA	24.0 [w/ Standard Battery]	1.0 cm [w/o Holster]	In	0.414
848.31	0777	CDMA	24.0 [w/ Standard Battery]	1.0 cm [w/o Holster]	Out	0.585
848.31	**0777**	**CDMA**	**24.0 [w/ Extended Battery]**	**1.0 cm [w/o Holster]**	**In**	**0.405**
848.31	**0777**	**CDMA**	**24.0 [w/ Extended Battery]**	**1.0 cm [w/o Holster]**	**Out**	**0.584**
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				**Body 1.6 W/kg (mW/g)** averaged over 1 gram		

NOTES:
1. All modes of operation were investigated and the worst-case are reported.
2. Battery condition is fully charged for all readings.
3. Battery Type ☒ Standard ☒ Extended
4. * Power Measured ☒ Conducted ☐ EIRP ☐ ERP
5. SAR Measurement System ☒ SPEAG ☐ IDX
6. SAR Configuration ☐ Head ☒ Body ☐ Hand
7. ** Test Configuration ☐ Body Holster ☒ Without Body Holster

Randy Ortanez
President & Chief Engineer

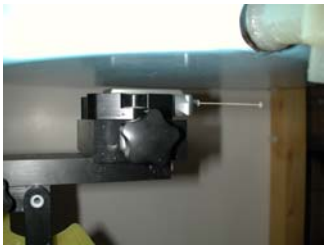

Figure 18. Body SAR Test Setup

13.1 SAR TEST DATA SUMMARY (Continued)

Ambient TEMPERATURE (°C) 21.7
Relative HUMIDITY (%) 58.4
Atmospheric PRESSURE (kPa) 99.3

Mixture Type: **835 MHz Muscle**

Dielectric Constant: **56.2**

Conductivity: **0.95**

13.4 Measurement Results (Cellular CDMA Hand SAR)

FREQUENCY MHz	FREQUENCY Ch.	Modulation	POWER * (dBm)	Separation Distance (cm)**	Antenna Position	SAR (W/kg)
824.70	1013	CDMA	24.0 [w/ Standard Battery]	Touch	In	0.632
824.70	1013	CDMA	24.0 [w/ Standard Battery]	Touch	Out	0.409
835.89	0363	CDMA	24.0 [w/ Standard Battery]	Touch	In	0.434
835.89	0363	CDMA	24.0 [w/ Standard Battery]	Touch	Out	0.300
848.31	0777	CDMA	24.0 [w/ Standard Battery]	Touch	In	0.651
848.31	0777	CDMA	24.0 [w/ Standard Battery]	Touch	Out	0.589
848.31	**0777**	**CDMA**	**24.0 [w/ Extended Battery]**	**Touch**	**In**	**0.648**
848.31	**0777**	**CDMA**	**24.0 [w/ Extended Battery]**	**Touch**	**Out**	**0.580**
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				**Hand 4.0 W/kg (mW/g)** averaged over 10 grams		

NOTES:
1. All modes of operation were investigated and the worst-case are reported.
2. Battery condition is fully charged for all readings.
3. Battery Type ☒ Standard ☒ Extended
4. * Power Measured ☒ Conducted ☐ EIRP ☐ ERP
5. SAR Measurement System ☒ SPEAG ☐ IDX
6. SAR Configuration ☐ Head ☐ Body ☒ Hand

Randy Ortanez
President & Chief Engineer

Figure 19. Hand SAR Test Setup

13.1 SAR TEST DATA SUMMARY

Ambient TEMPERATURE (°C) 21.7
Relative HUMIDITY (%) 58.4
Atmospheric PRESSURE (kPa) 99.3

Mixture Type: **835MHz Brain**

Dielectric Constant: **41.5**

Conductivity: **0.90**

Closest Distance (between E-Probe & EUT Antenna): 1.6 cm

13.2 Measurement Results (CELLULAR CDMA Head SAR)

FREQUENCY MHz	FREQUENCY Ch.	Modulation	POWER* (dBm)	Phantom Position	Antenna Position	SAR (W/kg)
824.70	1013	CDMA	24.0 [w/ Extended Battery]	Left Ear	In	1.290
824.70	1013	CDMA	24.0 [w/ Extended Battery]	Left Ear	Out	1.030
835.89	0363	CDMA	24.0 [w/ Extended Battery]	Left Ear	In	0.995
835.89	0363	CDMA	24.0 [w/ Extended Battery]	Left Ear	Out	0.839
848.31	0777	CDMA	24.0 [w/ Extended Battery]	Left Ear	In	1.320
848.31	0777	CDMA	24.0 [w/ Extended Battery]	Left Ear	Out	1.390
848.31	**0777**	**CDMA**	**24.0 [w/ Standard Battery]**	**Left Ear**	**In**	**1.260**
848.31	**0777**	**CDMA**	**24.0 [w/ Standard Battery]**	**Left Ear**	**Out**	**1.280**
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				**Brain 1.6 W/kg (mW/g)** averaged over 1 gram		

NOTES:
1. The test data reported are the worst-case SAR value with the antenna-head position set in a typical configuration.
2. Battery condition is fully charged for all readings.
3. All modes of operation were investigated and the worst-case are reported.
4. Battery Type ☒ Standard ☒ Extended
5. *Power Measured ☒ Conducted ☐ EIRP ☐ ERP
6. SAR Measurement System ☒ SPEAG ☐ IDX
7. SAR Configuration ☒ Head ☐ Body ☐ Hand

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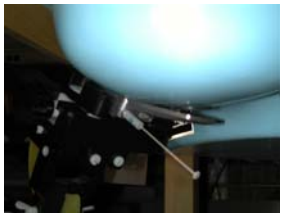


Figure 17. Head SAR Test Setup

SAMSUNG FCC ID:A3LSCHA302 -- Cellular CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 835 MHz Muscle: σ = 0.95 mho/m ε_r = 56.2 ρ = 1.00 g/cm^3; Antenna Position -- In; Crest Factor 1.0

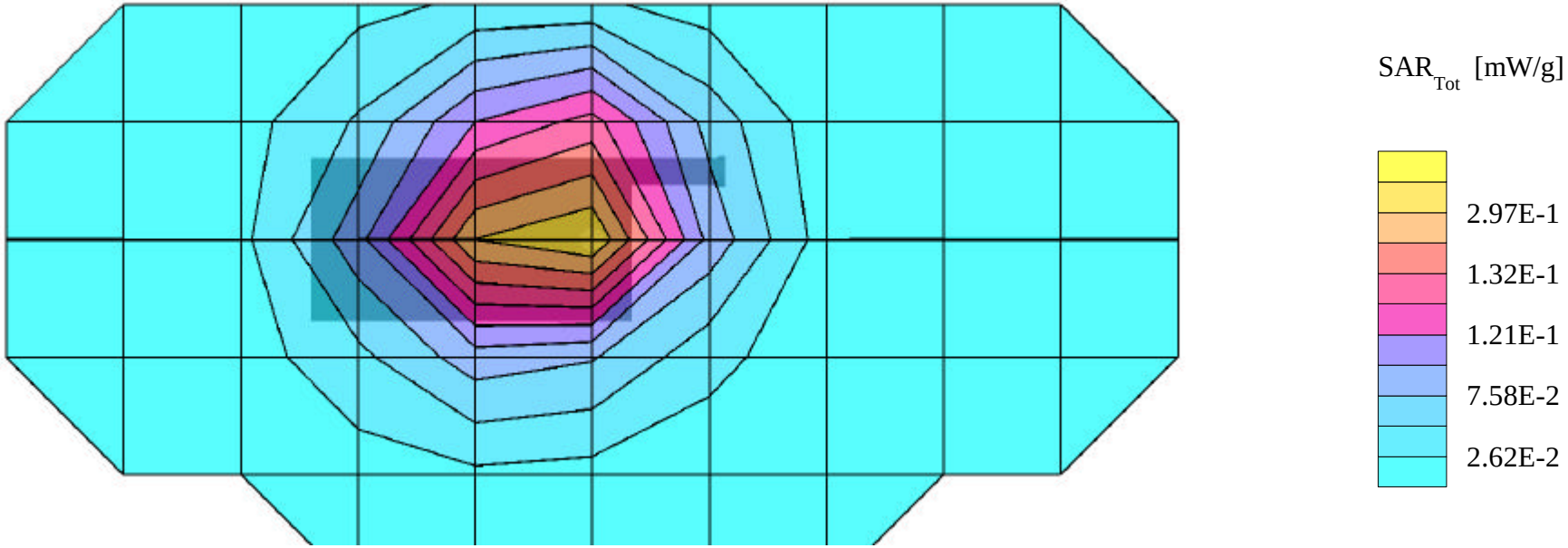
SAR (1g): 0.405 mW/g, SAR (10g): 0.284 mW/g

SAMSUNG Cellular CDMA Only Phone Model:SCH-A302

Cellular CDMA Mode, Ch.0777 [848.31Hz]; Flip = Closed w/EXTENDED BATTERY

Conducted Power = 24.0dBm; Spacing = 1.0cm from flat phantom to phone, w/o beltclip or holster

Test Date -- 05/01/2001



SAMSUNG FCC ID:A3LSCHA302 -- Cellular CDMA Hand SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 835 MHz Muscle: σ = 0.95 mho/m ε_r = 56.2 ρ = 1.00 g/cm^3; Antenna Position -- In; Crest Factor 1.0

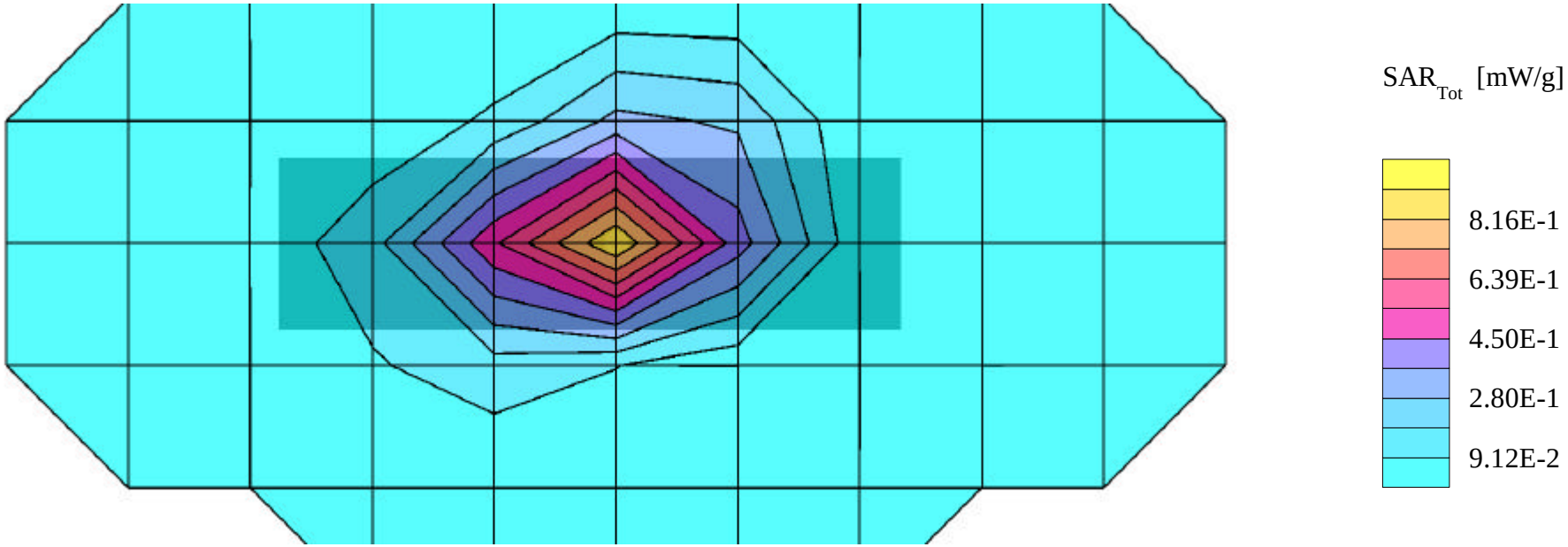
SAR (1g): 1.07 mW/g, **SAR (10g): 0.648 mW/g**

SAMSUNG Cellular CDMA Only Phone Model:SCH-A302

Cellular CDMA Mode, Ch.0777 [848.31MHz]; Flip = Open w/EXTENDED BATTERY

Conducted Power = 24.0dBm; Spacing = touching phone to flat phantom

Test Date -- 05/01/2001



SAMSUNG FCC ID:A3LSCHA302 -- Cellular CDMA Head SAR

Generic Twin Phantom; Left Hand Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 835 MHz Brain: $\sigma = 0.90$ mho/m $\varepsilon_r = 41.5$ $\rho = 1.00$ g/cm^3; Antenna Position -- In; Crest Factor 1.0

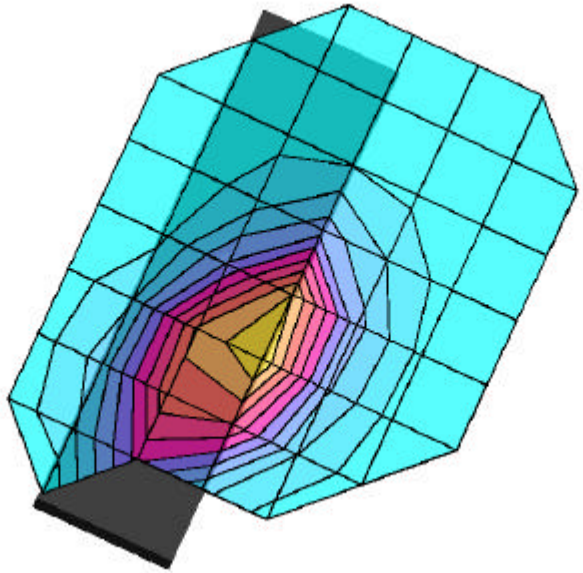
SAR (1g): 1.26 mW/g, SAR (10g): 0.878 mW/g

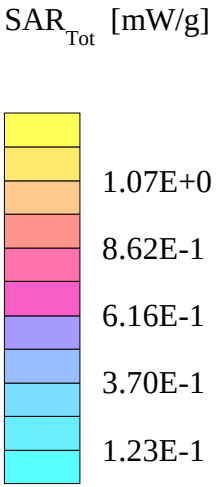
SAMSUNG Cellular CDMA Only Phone Model:SCH-A302

Cellular CDMA Mode, Ch.0777 [848.31MHz]

Conducted Power = 24.0dBm; Flip = Open w/STANDARD BATTERY

Test Date -- 05/01/2001





SAMSUNG FCC ID:A3LSCHA302 -- Cellular CDMA Head SAR

Generic Twin Phantom; Left Hand Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 835 MHz Brain: σ = 0.90 mho/m ε_r = 41.5 ρ = 1.00 g/cm^3; Antenna Position -- Out; Crest Factor 1.0

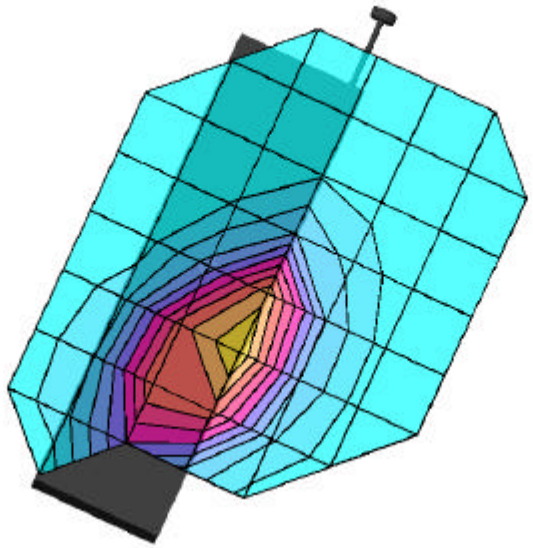
SAR (1g): 1.28 mW/g, SAR (10g): 0.895 mW/g

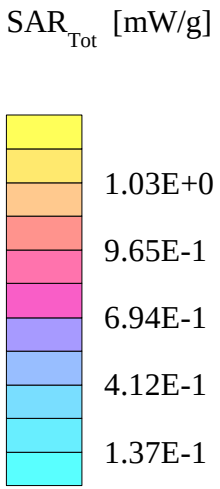
SAMSUNG Cellular CDMA Only Phone Model:SCH-A302

Cellular CDMA Mode, Ch.0777 [848.31MHz]

Conducted Power = 24.0dBm; Flip = Open w/STANDARD BATTERY

Test Date -- 05/01/2001





SAMSUNG FCC ID:A3LSCHA302 -- Cellular CDMA Hand SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 835 MHz Muscle: $\sigma = 0.95$ mho/m $\varepsilon_r = 56.2$ $\rho = 1.00$ g/cm^3; Antenna Position -- Out; Crest Factor 1.0

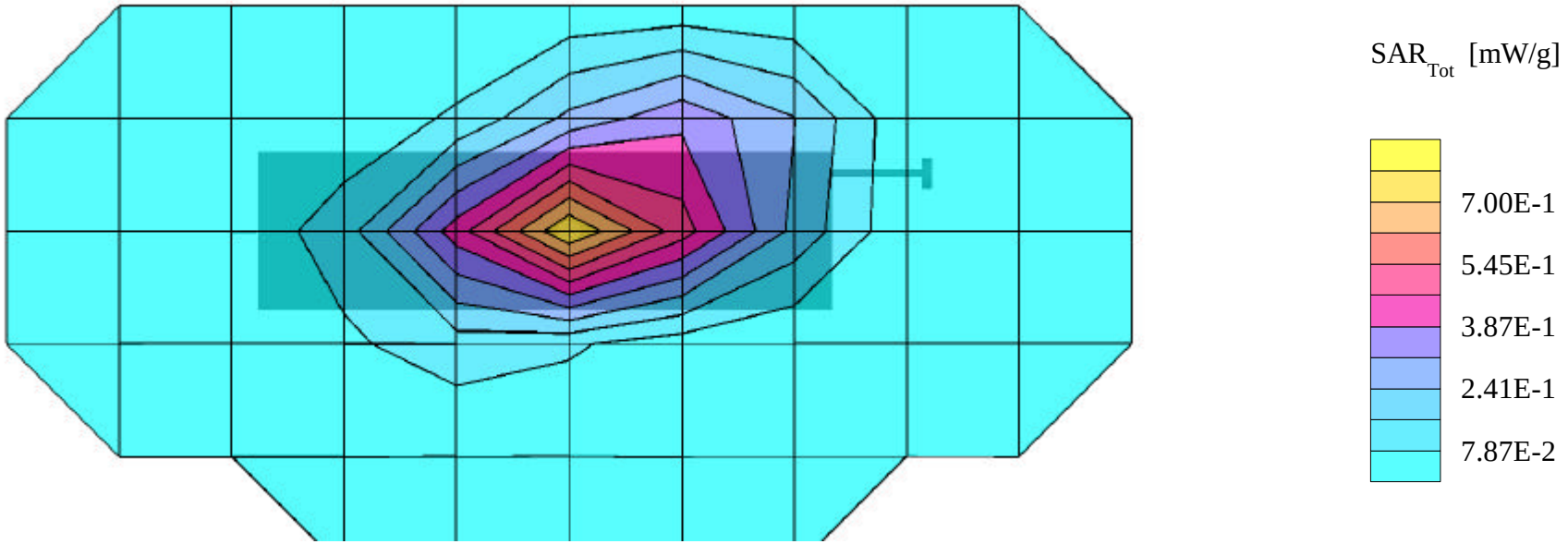
SAR (1g): 0.994 mW/g, **SAR (10g): 0.580 mW/g**

SAMSUNG Cellular CDMA Only Phone Model:SCH-A302

Cellular CDMA Mode, Ch.0777 [848.31MHz]; Flip = Open w/EXTENDED BATTERY

Conducted Power = 24.0dBm; Spacing = touching phone to flat phantom

Test Date -- 05/01/2001



SAMSUNG FCC ID:A3LSCHA302 -- Cellular CDMA Body SAR

Generic Twin Phantom; Flat Section; Probe: ET3DV6 - SN1560 -- Probe Cal Date 20/02/01

Med. Parameters 835 MHz Muscle: σ = 0.95 mho/m ε_r = 56.2 ρ = 1.00 g/cm^3; Antenna Position -- Out; Crest Factor 1.0

SAR (1g): 0.584 mW/g, SAR (10g): 0.404 mW/g

SAMSUNG Cellular CDMA Only Phone Model:SCH-A302

Cellular CDMA Mode, Ch.0777 [824.31MHz]; Flip = Closed w/EXTENDED BATTERY

Conducted Power = 24.0dBm; Spacing = 1.0cm from flat phantom to phone, w/o beltclip or holster

Test Date -- 05/01/2001