

**SAR Test Report Amendment**  
**FCC ID: PL5GPC-6210**  
**10/27/02**

**Testing Conducted by Bay Area Compliance Laboratory Corporation  
in Sunnyvale California.**

This amendment to the GTRAN SAR report has been uploaded in response to a request from the FCC for additional SAR test measurements. The request was first made in a conference call between John Forrester, Dean Brenner, and Martin Perrine that occurred in the afternoon of 10/25/02.

### 1) 835 MHz Body Validation

The following table summarizes 835 MHz body validation test data from 10/26/02 and 10/20/02. The results show agreement between the body validation results tested on two different days.

| Tissue | Freq (MHz) | Parameters      | Target | Measured Value (10/26/02) | % difference from target | Measured Value (10/20/02) | % difference from target | %difference between 10/20/02 and 10/26/02 |
|--------|------------|-----------------|--------|---------------------------|--------------------------|---------------------------|--------------------------|-------------------------------------------|
| Body   | 835        | permittivity    | 55.2   | 55.8                      | 1.08%                    | 55.4                      | 0.36%                    | 0.72%                                     |
|        |            | conductivity    | 0.97   | 0.97                      | 0.0%                     | 0.98                      | 1.02%                    | -1.03%                                    |
|        |            | SAR (1g) (mW/g) | 8.872  | 9.3                       | 4.6%                     | 8.84                      | -0.36%                   | 4.96%                                     |

Input Power=12.7dBm for system validation on 10-26-02

### 2) Repeat of worst case laptop and PDA at two worst case frequencies to confirm 10/20/02 data.

The following two tables summarize the validations and test data from the worst case PDA and worst case laptop tested in the same configuration as on 10/20/02. The tables also include the results from 10/20/02 for reference.

**Validation Summary/Comparison**

| Tissue | Freq | Parameters      | Target | Measured Value (10/26/02) | % difference from target | Measured Value (10/20/02) | % difference from target | %difference between 10/20/02 and 10/26/02 |
|--------|------|-----------------|--------|---------------------------|--------------------------|---------------------------|--------------------------|-------------------------------------------|
| Body   | 1900 | permittivity    | 53.3   | 55.6                      | 4.14%                    | 53.9                      | 1.13%                    | 3.06%                                     |
|        |      | conductivity    | 1.52   | 1.5                       | -1.3%                    | 1.46                      | -4.11%                   | 2.67%                                     |
|        |      | SAR (1g) (mW/g) | 24.97  | 24.15                     | -3.4%                    | 24.6                      | -1.50%                   | -1.87%                                    |

Input Power=21dBm for system validation on 10-26-02

**SAR Results Comparison**

| Host             | Freq | SAR measured 10/26/02 mW/g (1g) | SAR measured 10/20/02 mW/g (1g) |
|------------------|------|---------------------------------|---------------------------------|
| Compaq IPAC 3650 | 1880 | 0.912                           | 1.05                            |
|                  | 1905 | 0.925                           | 1.05                            |
| Dell PP01L       | 1880 | 0.467                           | 0.512                           |
|                  | 1905 | 0.478                           | 0.515                           |

## System validation Dipole 835 MHz (22 Deg C, 10/26/02)

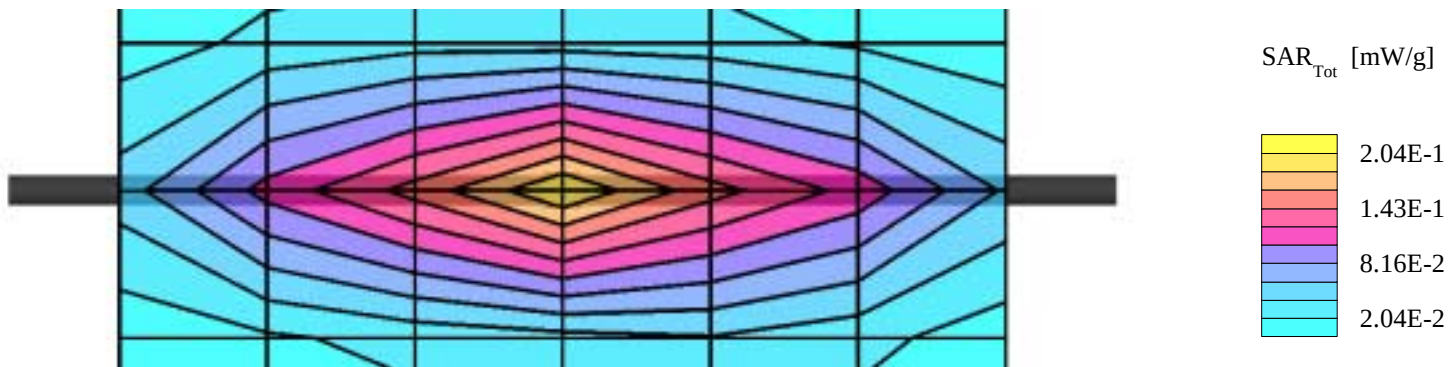
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 835 MHz

Probe: ET3DV6 - SN1604; ConvF(6.40,6.40,6.40); Crest factor: 1.0; Body 835 MHz:  $\sigma = 0.97$  mho/m  $\epsilon_r = 55.8$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 5x5x7: SAR (1g): 0.173 mW/g, SAR (10g): 0.0852 mW/g, (Worst-case extrapolation)

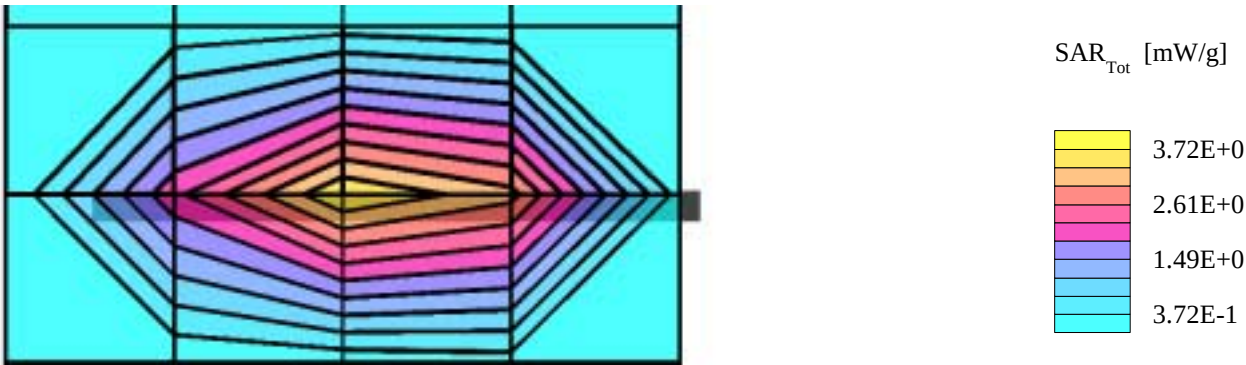
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0

Powerdrift: -0.01 dB



# System Validation 1900 MHz (22 Deg, 10/26/02)

SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 1900 MHz  
Probe: ET3DV6 - SN1604; ConvF(4.90,4.90,4.90); Crest factor: 1.0; Body 1900MHz:  $\sigma = 1.50 \text{ mho/m}$   $\epsilon_r = 55.6$   $\rho = 1.00 \text{ g/cm}^3$   
Cube 5x5x7: SAR (1g): 3.04 mW/g, SAR (10g): 1.42 mW/g, (Worst-case extrapolation)  
Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0  
Powerdrift: -0.00 dB



**GTran Wireless (Compaq ipaq 3650 with antenna parallel with phantom, 22 Deg C, 10/26/02)**

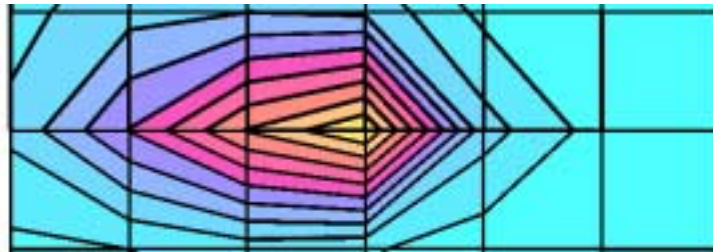
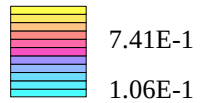
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 1880 MHz

Probe: ET3DV6 - SN1604; ConvF(4.90,4.90,4.90); Crest factor: 1.0; Body 1900 MHz:  $\sigma = 1.50$  mho/m  $\epsilon_r = 55.6$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 5x5x7: SAR (1g): 0.912 mW/g, SAR (10g): 0.494 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: -0.03 dB

SAR<sub>Tot</sub> [mW/g]

**GTran Wireless (Compaq ipaq 3650 with antenna parallel with phantom, 22 Deg C, 10/26/02)**

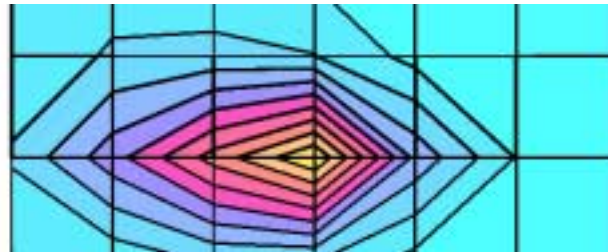
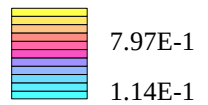
SAM Phantom; Flat Section; Position: (90°,90°); Frequency: 1905 MHz

Probe: ET3DV6 - SN1604; ConvF(4.90,4.90,4.90); Crest factor: 1.0; Body 1900 MHz:  $\sigma = 1.50$  mho/m  $\epsilon_r = 55.6$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 5x5x7: SAR (1g): 0.925 mW/g, SAR (10g): 0.499 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: 0.09 dB

SAR<sub>Tot</sub> [mW/g]

# GTran Wireless (Dell PPO1L with antenna straight and parallel with phantom, 22 Deg C, 10/26/02)

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

Probe: ET3DV6 - SN1604; ConvF(4.90,4.90,4.90); Crest factor: 1.0; Body 1900 MHz:  $\sigma = 1.50$  mho/m  $\epsilon_r = 55.6$   $\rho = 1.00$  g/cm<sup>3</sup>

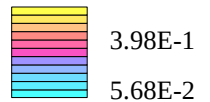
Cube 5x5x7: SAR (1g): 0.467 mW/g, SAR (10g): 0.259 mW/g, (Worst-case extrapolation)

Coarse: Dx = 17.0, Dy = 17.0, Dz = 14.0

Powerdrift: -0.03 dB



SAR<sub>Tot</sub> [mW/g]



# GTran Wireless (Dell PPO1L ant. straight and parallel w phantom, 22 Deg, 10/26/02)

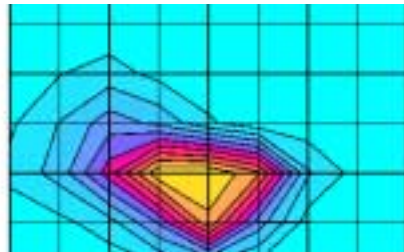
SAM Phantom; Section; Position: ; Frequency: 1905 MHz

Probe: ET3DV6 - SN1604; ConvF(4.90,4.90,4.90); Crest factor: 1.0; Body 1900 MHz:  $\sigma = 1.50$  mho/m  $\epsilon_r = 55.6$   $\rho = 1.00$  g/cm<sup>3</sup>

Cube 5x5x7: SAR (1g): 0.478 mW/g, SAR (10g): 0.212 mW/g, (Worst-case extrapolation)

Coarse: Dx = 16.0, Dy = 16.0, Dz = 14.0

Powerdrift: 0.15 dB



SAR<sub>Tot</sub> [mW/g]

