

## ATTACHMENT B – DIPOLE VALIDATION

## ■ Validation Data (E-Field 835MHz)

Test Laboratory: HCT

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

**Program Name: HAC E Dipole**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: E Dipole Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

### **E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):**

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 169.8 V/m

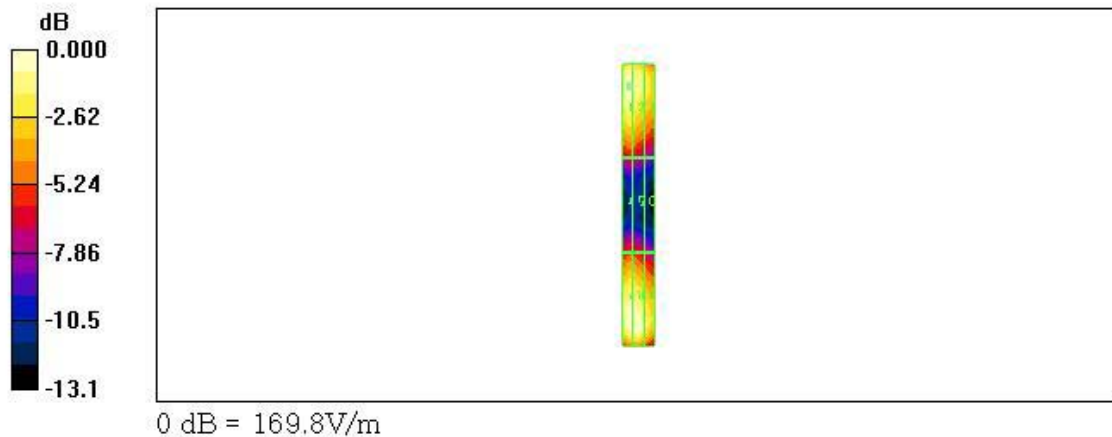
Probe Modulation Factor = 1.00

Reference Value = 129.3 V/m; Power Drift = 0.056 dB

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

Peak E-field in V/m

|              |              |              |
|--------------|--------------|--------------|
| Grid 1       | Grid 2       | Grid 3       |
| <b>164.7</b> | <b>161.7</b> | <b>140.1</b> |
| Grid 4       | Grid 5       | Grid 6       |
| <b>89.4</b>  | <b>88.8</b>  | <b>76.2</b>  |
| Grid 7       | Grid 8       | Grid 9       |
| <b>169.8</b> | <b>169.8</b> | <b>147.2</b> |



## ■ Validation Data (E-Field 1880 MHz)

Test Laboratory: HCT

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

**Program Name: HAC E Dipole**

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: E Dipole Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2006-03-23

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

### E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 137.8 V/m

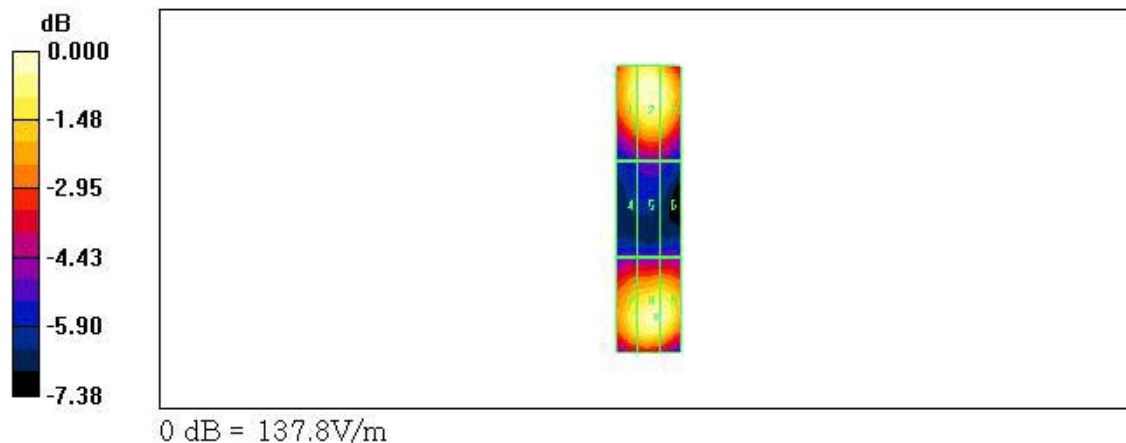
Probe Modulation Factor = 1.00

Reference Value = 117.3 V/m; Power Drift = 0.009 dB

**Hearing Aid Near-Field Category: M2 (A WF 0 dB)**

Peak E-field in V/m

|        |        |        |
|--------|--------|--------|
| Grid 1 | Grid 2 | Grid 3 |
| 129.6  | 137.8  | 134.8  |
| Grid 4 | Grid 5 | Grid 6 |
| 78.7   | 79.6   | 80.0   |
| Grid 7 | Grid 8 | Grid 9 |
| 126.3  | 133.9  | 133.7  |



## Validation Data (H-Field 835 MHz)

Test Laboratory: HCT

**DUT: HAC-Dipole 835 MHz; Type: D835V3**

**Program Name: HAC H Dipole**

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

### H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.459 A/m

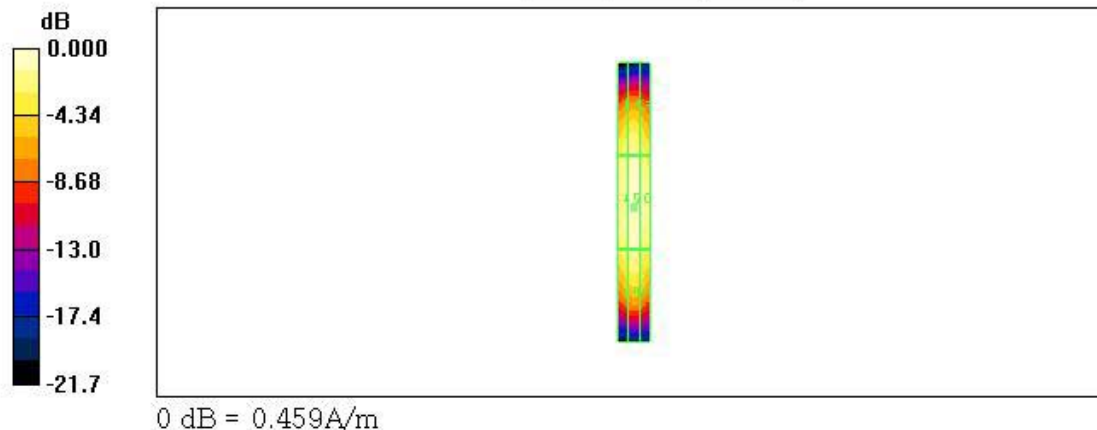
Probe Modulation Factor = 1.00

Reference Value = 0.492 A/m; Power Drift = -0.040 dB

**Hearing Aid Near-Field Category: M2 (A WF 0 dB)**

Peak H-field in A/m

|              |              |              |
|--------------|--------------|--------------|
| Grid 1       | Grid 2       | Grid 3       |
| <b>0.387</b> | <b>0.403</b> | <b>0.380</b> |
| Grid 4       | Grid 5       | Grid 6       |
| <b>0.436</b> | <b>0.459</b> | <b>0.436</b> |
| Grid 7       | Grid 8       | Grid 9       |
| <b>0.383</b> | <b>0.406</b> | <b>0.387</b> |



## Validation Data (H-Field 1880 MHz)

Test Laboratory: HCT

**DUT: HAC Dipole 1880 MHz; Type: CD1880V3**

**Program Name: HAC H Dipole**

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2006-03-17

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

### H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.465 A/m

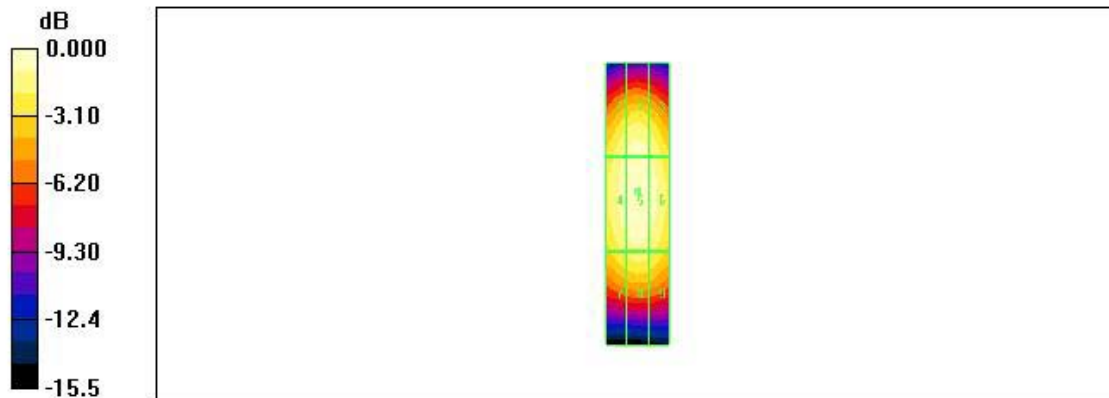
Probe Modulation Factor = 1.00

Reference Value = 0.484 A/m; Power Drift = 0.024 dB

**Hearing Aid Near-Field Category: M2 (AWF 0 dB)**

Peak H-field in A/m

|              |              |              |
|--------------|--------------|--------------|
| Grid 1       | Grid 2       | Grid 3       |
| <b>0.425</b> | <b>0.446</b> | <b>0.423</b> |
| Grid 4       | Grid 5       | Grid 6       |
| <b>0.444</b> | <b>0.465</b> | <b>0.444</b> |
| Grid 7       | Grid 8       | Grid 9       |
| <b>0.379</b> | <b>0.399</b> | <b>0.383</b> |



0 dB = 0.465 A/m