

ATTACHMENT C – PROBE MODULATION FACTOR

■ Probe Modulation Factor (E-Field 835MHz CW)

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/m³

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

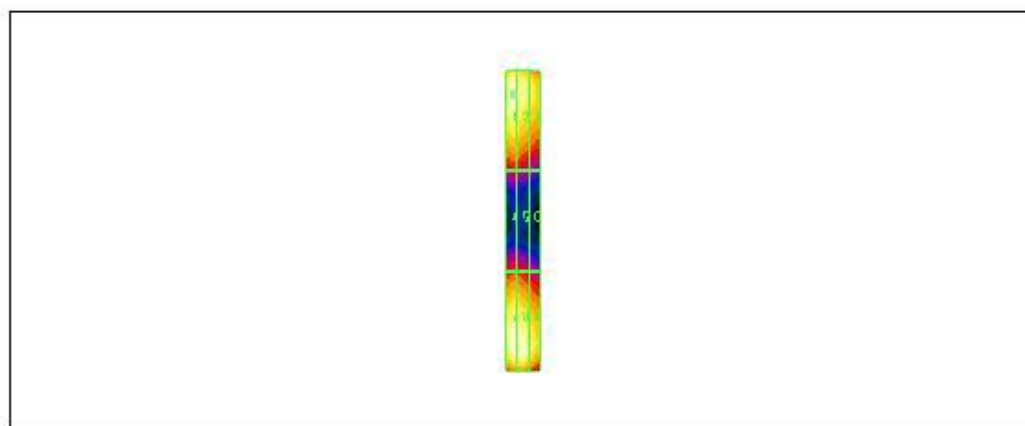
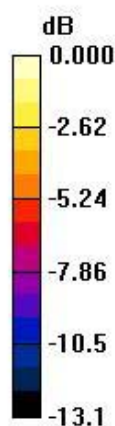
Probe Modulation Factor = 1.00

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

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
164.7	161.7	140.1
Grid 4	Grid 5	Grid 6
89.4	88.8	76.2
Grid 7	Grid 8	Grid 9
169.8	169.8	147.2



0 dB = 169.8V/m

■ Probe Modulation Factor (E-Field 835MHz AM80)

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/m³

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 = 105.2 V/m

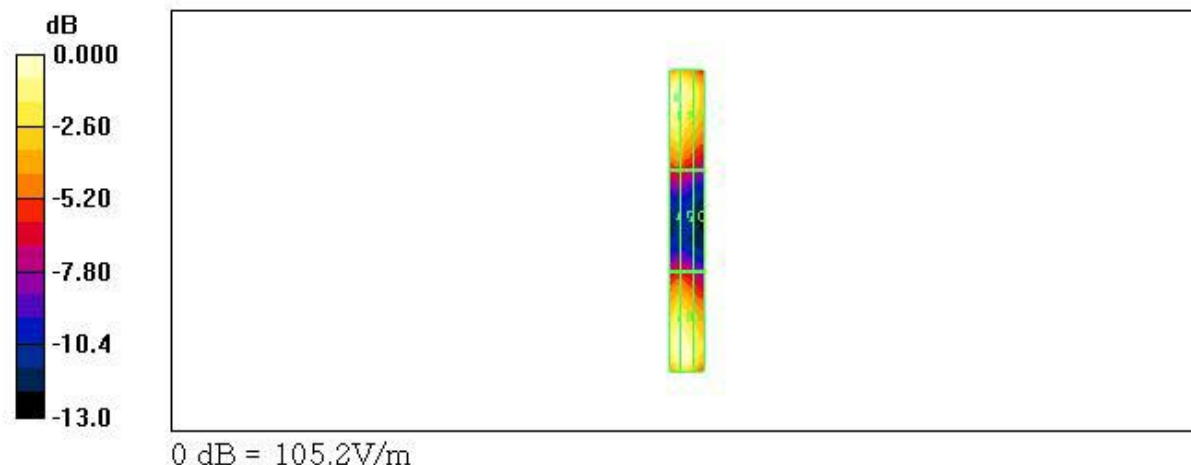
Probe Modulation Factor = 1.00

Reference Value = 75.2 V/m; Power Drift = -0.002 dB

Hearing Aid Near-Field Category: M3 (A WF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
101.9	99.8	86.7
Grid 4	Grid 5	Grid 6
55.2	54.4	46.2
Grid 7	Grid 8	Grid 9
105.1	105.2	93.1



Probe Modulation Factor (E-Field 835MHz CDMA)

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/m³

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 = 170.0 V/m

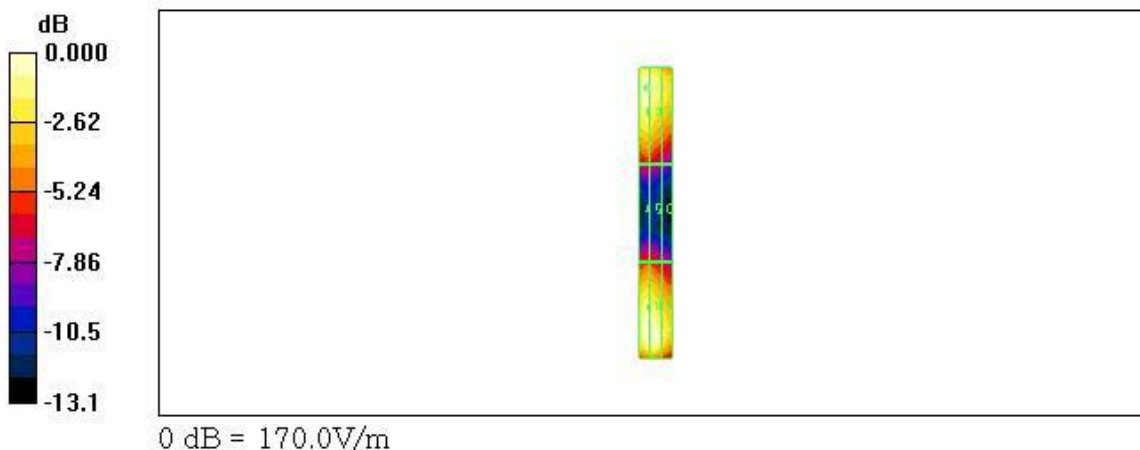
Probe Modulation Factor = 1.00

Reference Value = 129.7 V/m; Power Drift = 0.002 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
167.0	163.7	141.3
Grid 4	Grid 5	Grid 6
89.3	88.5	76.2
Grid 7	Grid 8	Grid 9
170.0	169.9	146.9



■ Probe Modulation Factor (E-Field 1880MHz CW)

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/m³

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

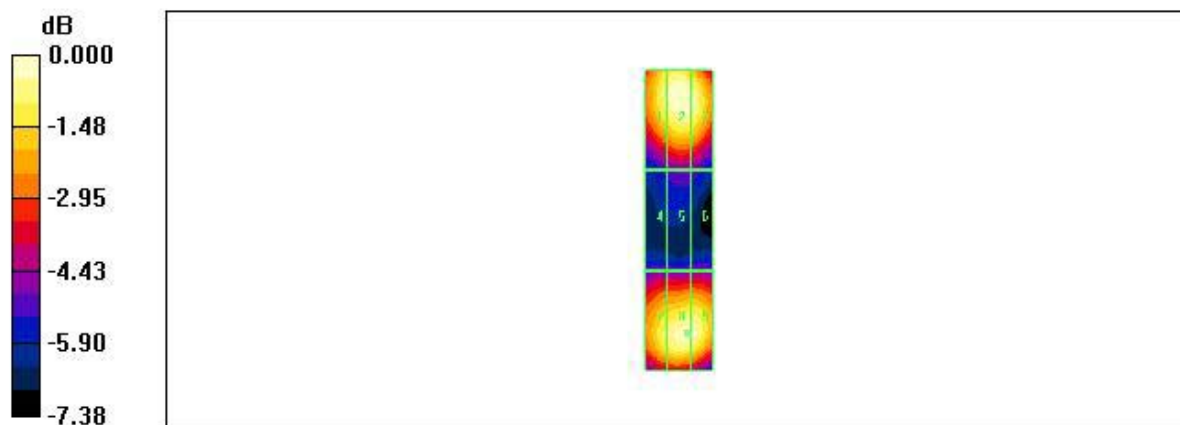
Probe Modulation Factor = 1.00

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



0 dB = 137.8V/m

■ Probe Modulation Factor (E-Field 1880MHz AM80)

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/m³

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 = 81.4 V/m

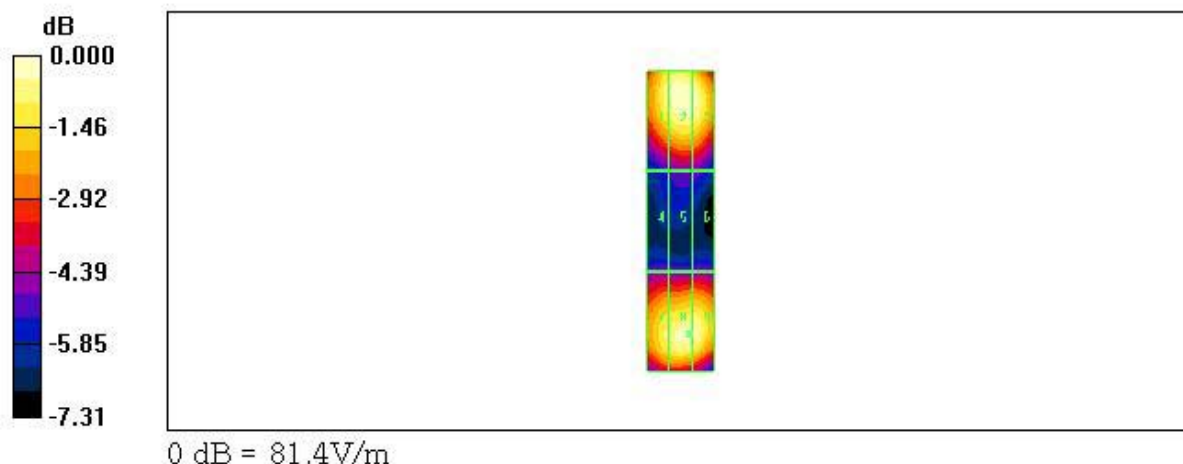
Probe Modulation Factor = 1.00

Reference Value = 69.4 V/m; Power Drift = 0.025 dB

Hearing Aid Near-Field Category: M3 (A WF 0 dB)

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
76.5	81.4	79.9
Grid 4	Grid 5	Grid 6
47.3	47.3	47.6
Grid 7	Grid 8	Grid 9
75.1	78.7	78.5



■ Probe Modulation Factor (E-Field 1880MHz CDMA)

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: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$, $\rho = 1000 \text{ kg/m}^3$

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 = 139.6 V/m

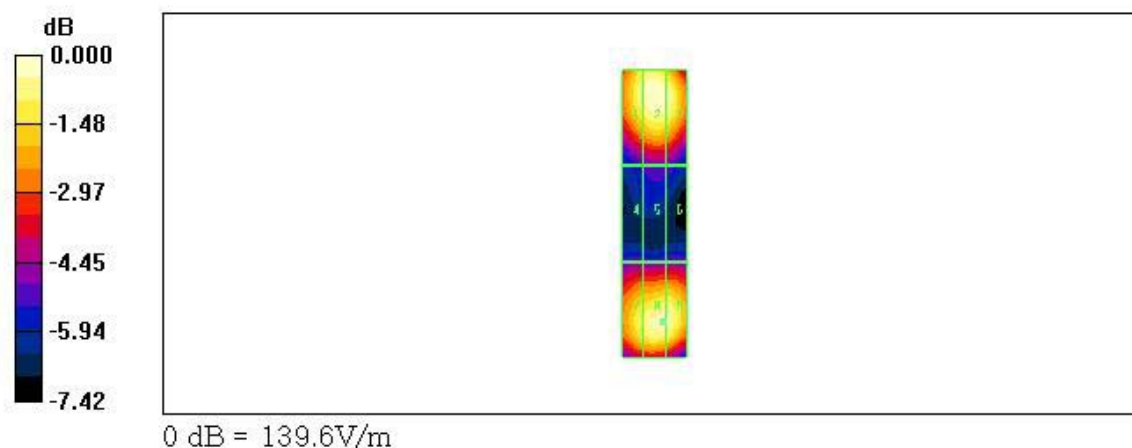
Probe Modulation Factor = 1.00

Reference Value = 119.1 V/m; Power Drift = 0.019 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
132.0	139.6	136.0
Grid 4	Grid 5	Grid 6
79.5	80.0	80.6
Grid 7	Grid 8	Grid 9
127.7	135.2	134.9



■ Probe Modulation Factor (H-Field 835MHz CW)

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/m³

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

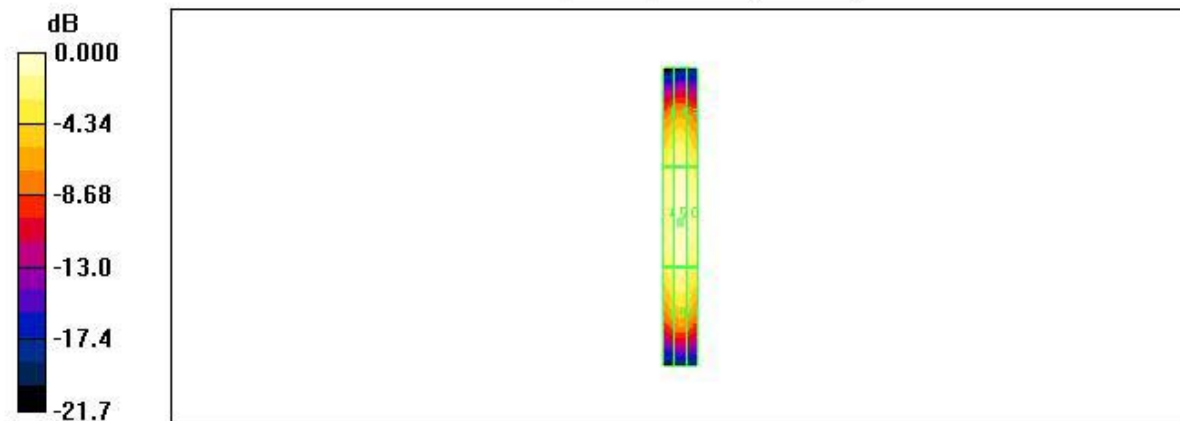
Probe Modulation Factor = 1.00

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
0.387	0.403	0.380
Grid 4	Grid 5	Grid 6
0.436	0.459	0.436
Grid 7	Grid 8	Grid 9
0.383	0.406	0.387



0 dB = 0.459A/m

■ Probe Modulation Factor (H-Field 835MHz AM80)

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: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$

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 = 0.298 A/m

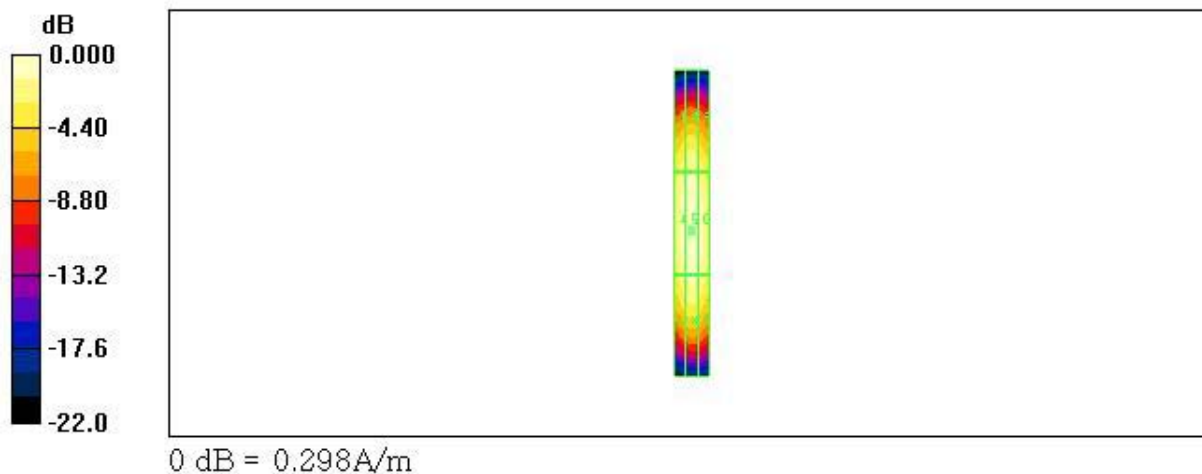
Probe Modulation Factor = 1.00

Reference Value = 0.319 A/m; Power Drift = 0.010 dB

Hearing Aid Near-Field Category: M3 (A WF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.243	0.254	0.240
Grid 4	Grid 5	Grid 6
0.281	0.298	0.283
Grid 7	Grid 8	Grid 9
0.251	0.269	0.257



■ Probe Modulation Factor (H-Field 835MHz CDMA)

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: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$

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 = 0.453 A/m

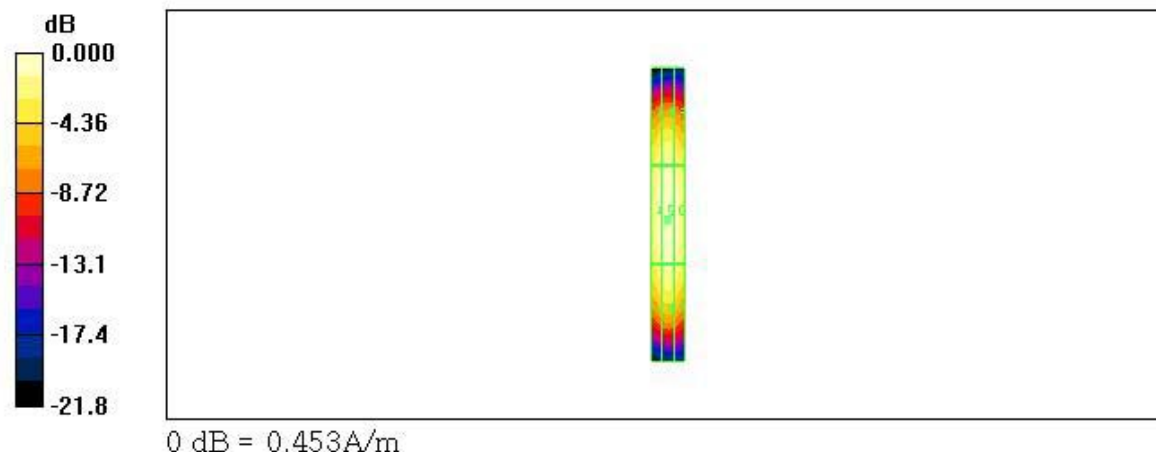
Probe Modulation Factor = 1.00

Reference Value = 0.484 A/m; Power Drift = 0.111 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.382	0.396	0.376
Grid 4	Grid 5	Grid 6
0.430	0.453	0.432
Grid 7	Grid 8	Grid 9
0.378	0.403	0.383



■ Probe Modulation Factor (H-Field 1880MHz CW)

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: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$; $\rho = 1 \text{ kg/m}^3$

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: $dx=5\text{mm}$, $dy=5\text{mm}$

Maximum value of peak Total field = 0.465 A/m

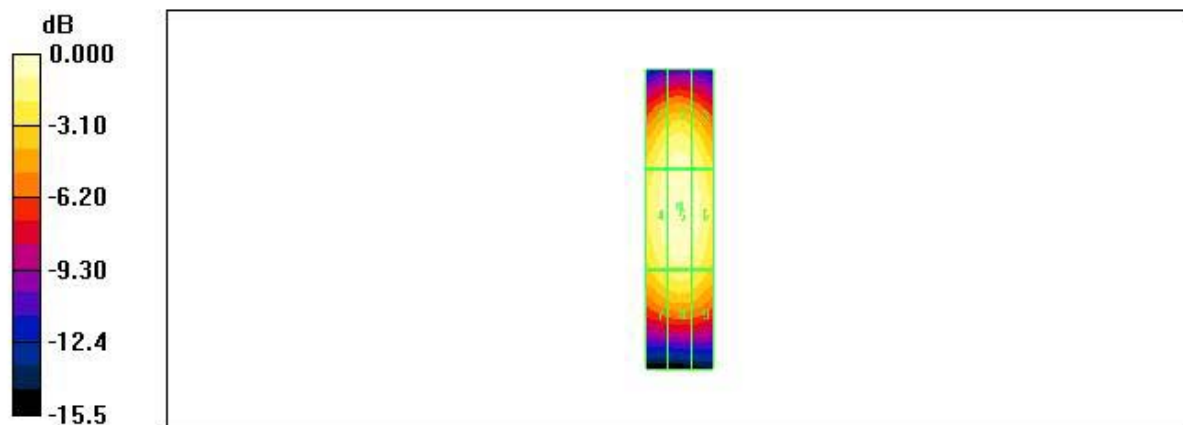
Probe Modulation Factor = 1.00

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

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.425	0.446	0.423
Grid 4	Grid 5	Grid 6
0.444	0.465	0.444
Grid 7	Grid 8	Grid 9
0.379	0.399	0.383



0 dB = 0.465 A/m

■ Probe Modulation Factor (H-Field 1880MHz AM80)

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/m³

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 = 0.307 A/m

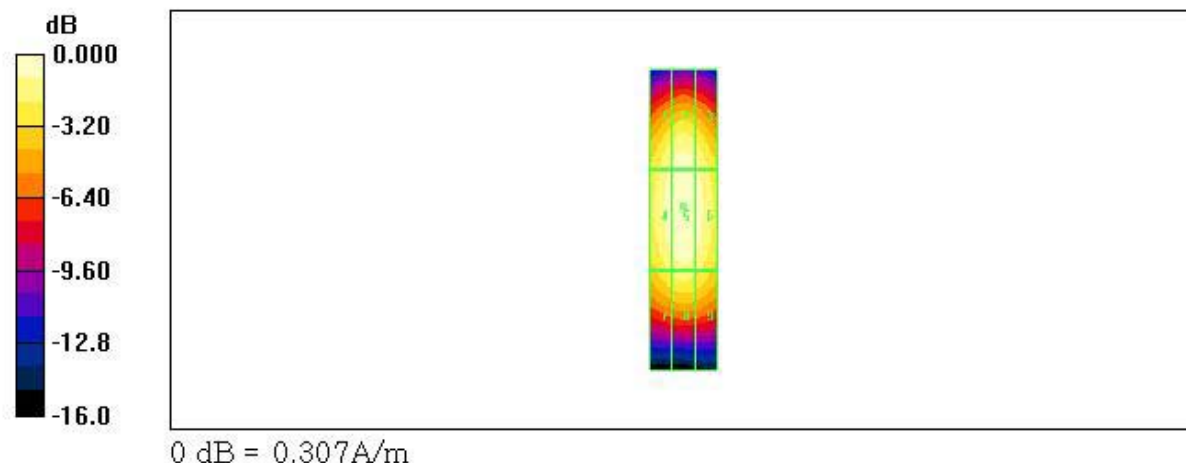
Probe Modulation Factor = 1.00

Reference Value = 0.330 A/m; Power Drift = 0.000 dB

Hearing Aid Near-Field Category: M3 (A WF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.277	0.295	0.277
Grid 4	Grid 5	Grid 6
0.291	0.307	0.291
Grid 7	Grid 8	Grid 9
0.247	0.261	0.249



■ Probe Modulation Factor (H-Field 1880MHz CDMA)

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: $\sigma = 0 \text{ mho/m}$, $\epsilon_r = 1$, $\rho = 1 \text{ kg/m}^3$

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 = 0.475 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.495 A/m; Power Drift = 0.018 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.434	0.456	0.432
Grid 4	Grid 5	Grid 6
0.454	0.475	0.453
Grid 7	Grid 8	Grid 9
0.388	0.408	0.391

