

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: DAE4 Sn447; Calibrated: 2005-11-30

- 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

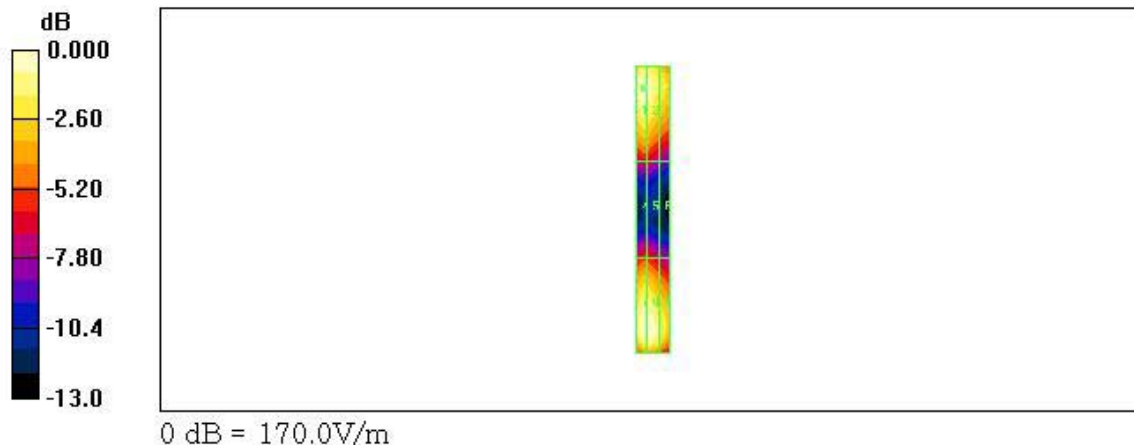
Probe Modulation Factor = 1.00

Reference Value = 130.1 V/m; Power Drift = 0.024 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
166.1	163.3	140.7
Grid 4	Grid 5	Grid 6
89.8	89.1	76.2
Grid 7	Grid 8	Grid 9
170.0	170.0	147.4



■ 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: DAE4 Sn447; Calibrated: 2005-11-30

- 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 = 104.8 V/m

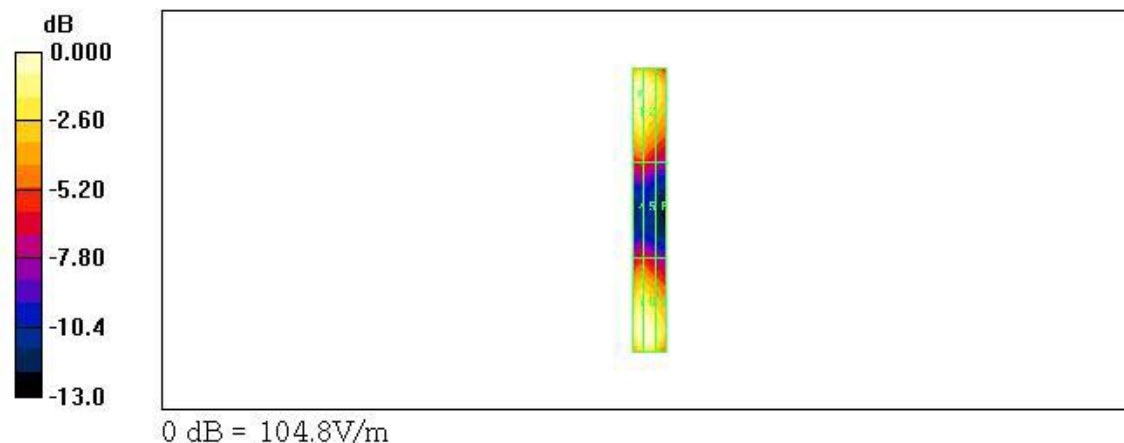
Probe Modulation Factor = 1.00

Reference Value = 75.0 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
101.7	99.5	86.6
Grid 4	Grid 5	Grid 6
55.1	54.4	46.3
Grid 7	Grid 8	Grid 9
104.8	104.8	93.5



■ 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: DAE4 Sn447; Calibrated: 2005-11-30
- 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 = 169.2 V/m

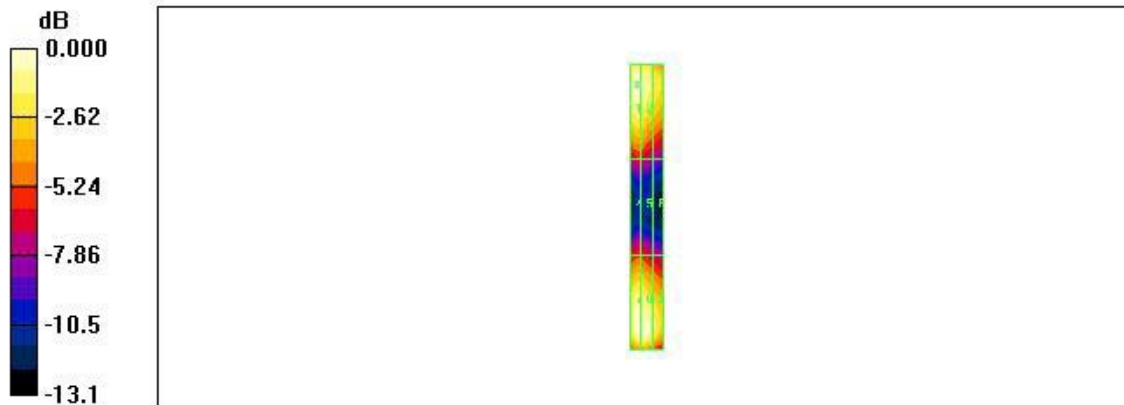
Probe Modulation Factor = 1.00

Reference Value = 129.4 V/m; Power Drift = -0.001 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
166.4	163.1	141.3
Grid 4	Grid 5	Grid 6
89.0	88.3	75.8
Grid 7	Grid 8	Grid 9
169.2	169.1	147.0



0 dB = 169.2V/m

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

Phantom section: E Dipole Section

DASY4 Configuration:

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

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn447; Calibrated: 2005-11-30

- 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 = 137.3 V/m

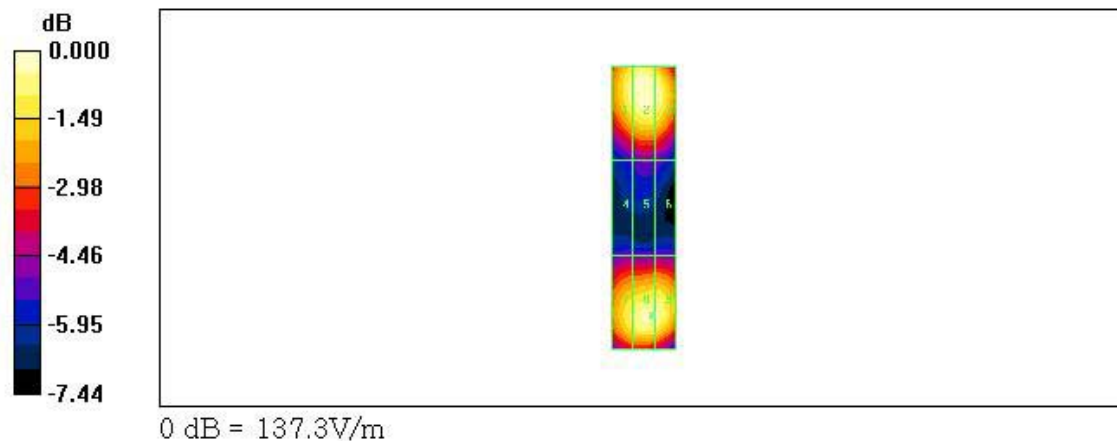
Probe Modulation Factor = 1.00

Reference Value = 116.6 V/m; Power Drift = 0.018 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
129.8	137.3	133.8
Grid 4	Grid 5	Grid 6
78.0	78.8	78.8
Grid 7	Grid 8	Grid 9
125.3	132.4	132.1



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

Phantom section: E Dipole Section

DASY4 Configuration:

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

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn447; Calibrated: 2005-11-30

- 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 = 82.3 V/m

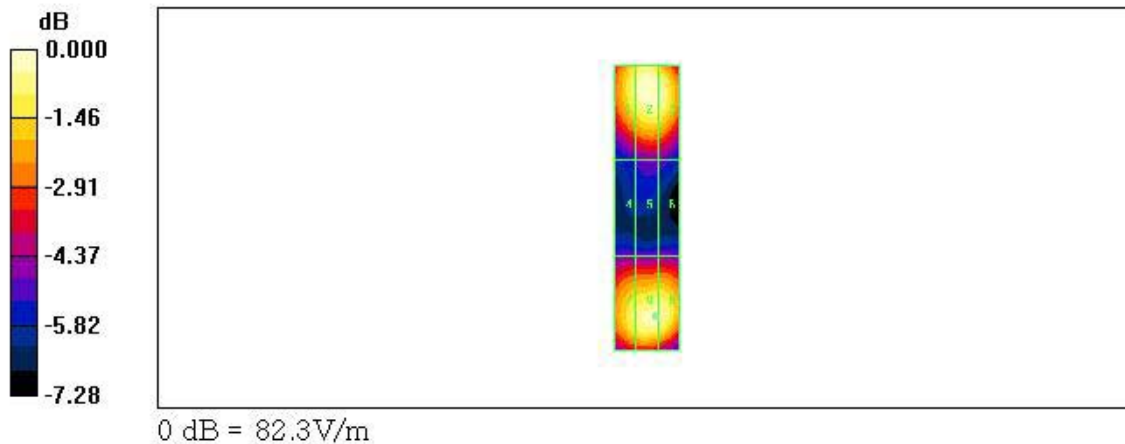
Probe Modulation Factor = 1.00

Reference Value = 70.4 V/m; Power Drift = 0.035 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
77.3	82.3	80.8
Grid 4	Grid 5	Grid 6
47.8	47.9	48.2
Grid 7	Grid 8	Grid 9
76.0	79.8	79.6



■ 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: DAE4 Sn447; Calibrated: 2005-11-30

- 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 = 139.5 V/m

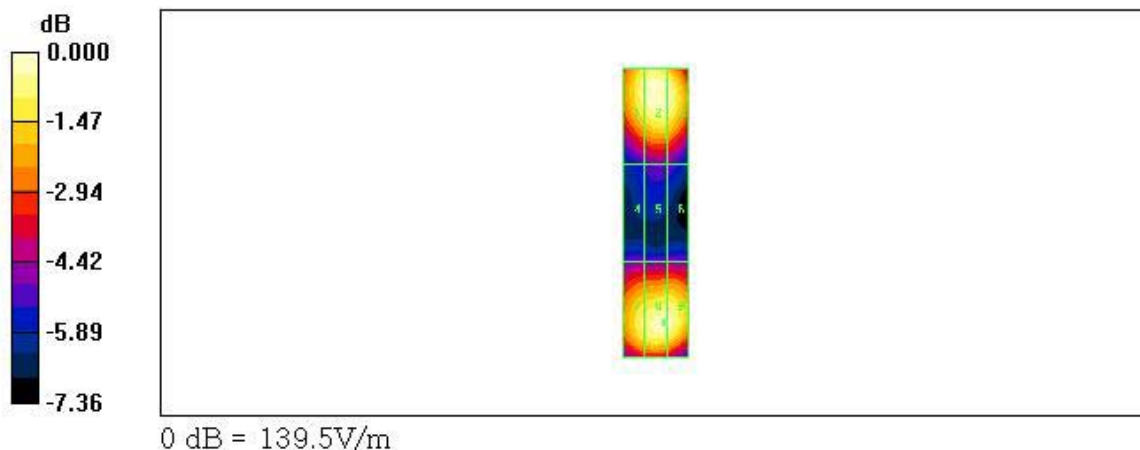
Probe Modulation Factor = 1.00

Reference Value = 120.4 V/m; Power Drift = -0.018 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
131.8	139.5	136.2
Grid 4	Grid 5	Grid 6
80.3	80.7	81.3
Grid 7	Grid 8	Grid 9
128.4	135.8	135.6



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

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ; Calibrated: 2005-07-20
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn447; Calibrated: 2005-11-30
- 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 = 0.460 A/m

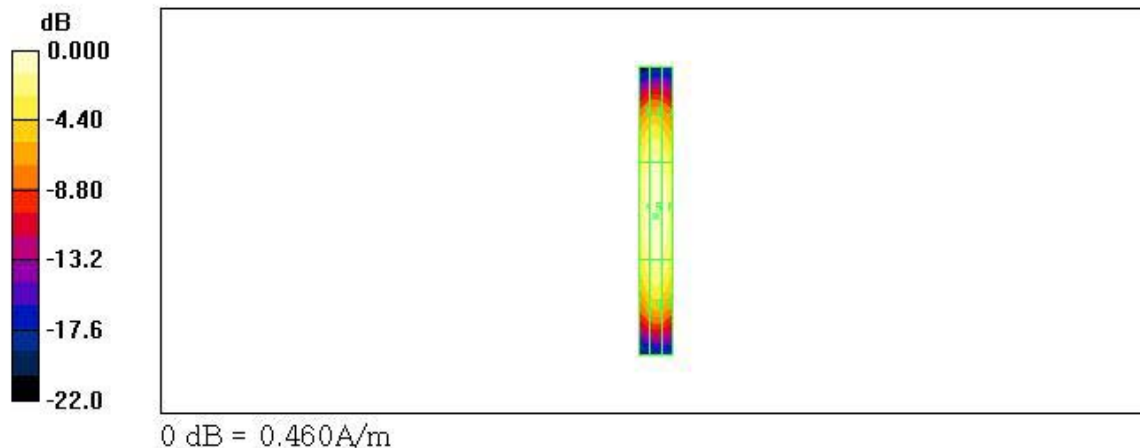
Probe Modulation Factor = 1.00

Reference Value = 0.479 A/m; Power Drift = 0.088 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.388	0.404	0.381
Grid 4	Grid 5	Grid 6
0.438	0.460	0.437
Grid 7	Grid 8	Grid 9
0.384	0.408	0.388



■ 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: DAE4 Sn447; Calibrated: 2005-11-30

- 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 = 0.300 A/m

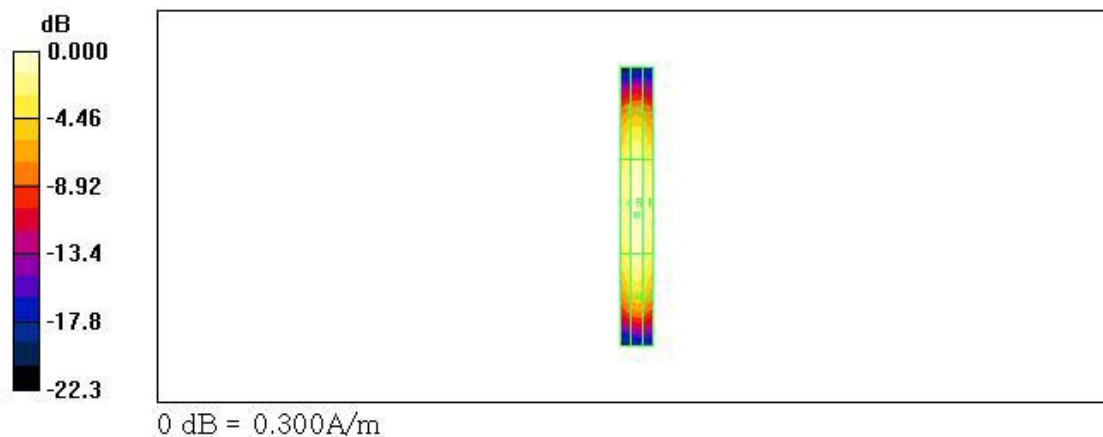
Probe Modulation Factor = 1.00

Reference Value = 0.322 A/m; Power Drift = 0.004 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.246	0.255	0.241
Grid 4	Grid 5	Grid 6
0.284	0.300	0.285
Grid 7	Grid 8	Grid 9
0.254	0.271	0.258



■ 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: $\sigma = 0$ 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: DAE4 Sn447; Calibrated: 2005-11-30
- 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

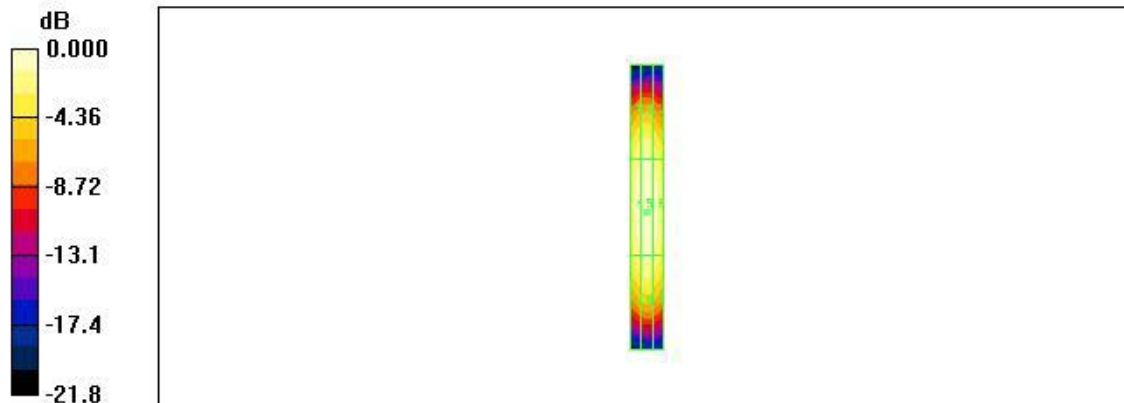
Probe Modulation Factor = 1.00

Reference Value = 0.489 A/m; Power Drift = -0.074 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.383	0.398	0.375
Grid 4	Grid 5	Grid 6
0.432	0.453	0.430
Grid 7	Grid 8	Grid 9
0.380	0.402	0.381



0 dB = 0.453A/m

■ 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: $\sigma = 0$ 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: DAE4 Sn447; Calibrated: 2005-11-30

- 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 = 0.472 A/m

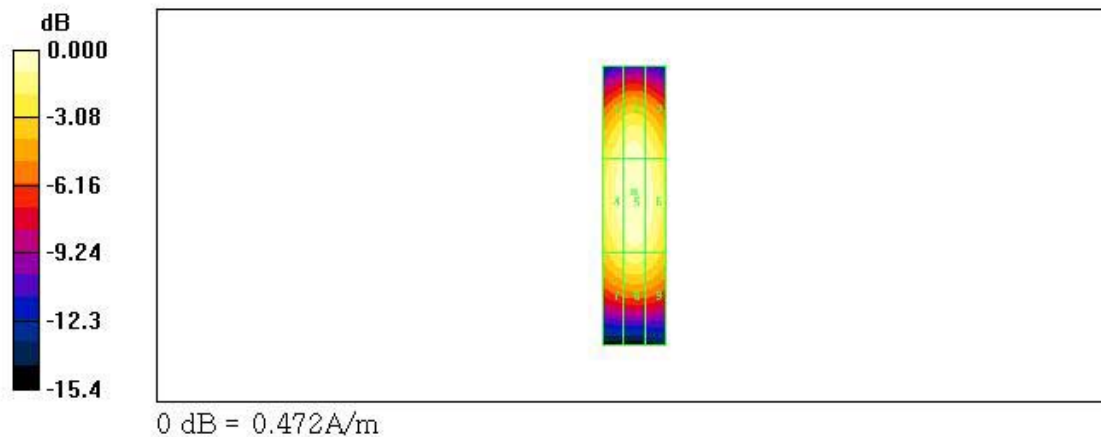
Probe Modulation Factor = 1.00

Reference Value = 0.491 A/m; Power Drift = 0.025 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.431	0.453	0.430
Grid 4	Grid 5	Grid 6
0.451	0.472	0.451
Grid 7	Grid 8	Grid 9
0.385	0.406	0.390



■ 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: DAE4 Sn447; Calibrated: 2005-11-30

- 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 = 0.306 A/m

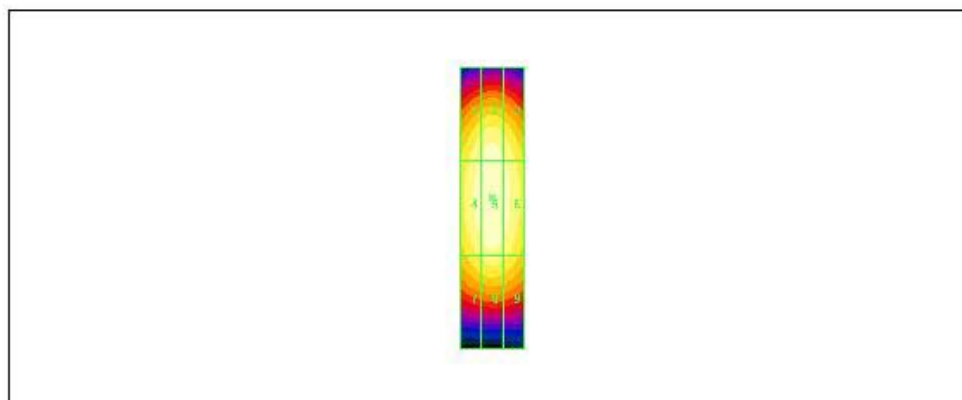
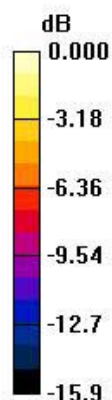
Probe Modulation Factor = 1.00

Reference Value = 0.329 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
0.277	0.294	0.276
Grid 4	Grid 5	Grid 6
0.290	0.306	0.290
Grid 7	Grid 8	Grid 9
0.246	0.260	0.248



■ 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: DAE4 Sn447; Calibrated: 2005-11-30

- 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 = 0.481 A/m

Probe Modulation Factor = 1.00

Reference Value = 0.501 A/m ; Power Drift = -0.008 dB

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

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.439	0.462	0.438
Grid 4	Grid 5	Grid 6
0.458	0.481	0.459
Grid 7	Grid 8	Grid 9
0.391	0.412	0.396

