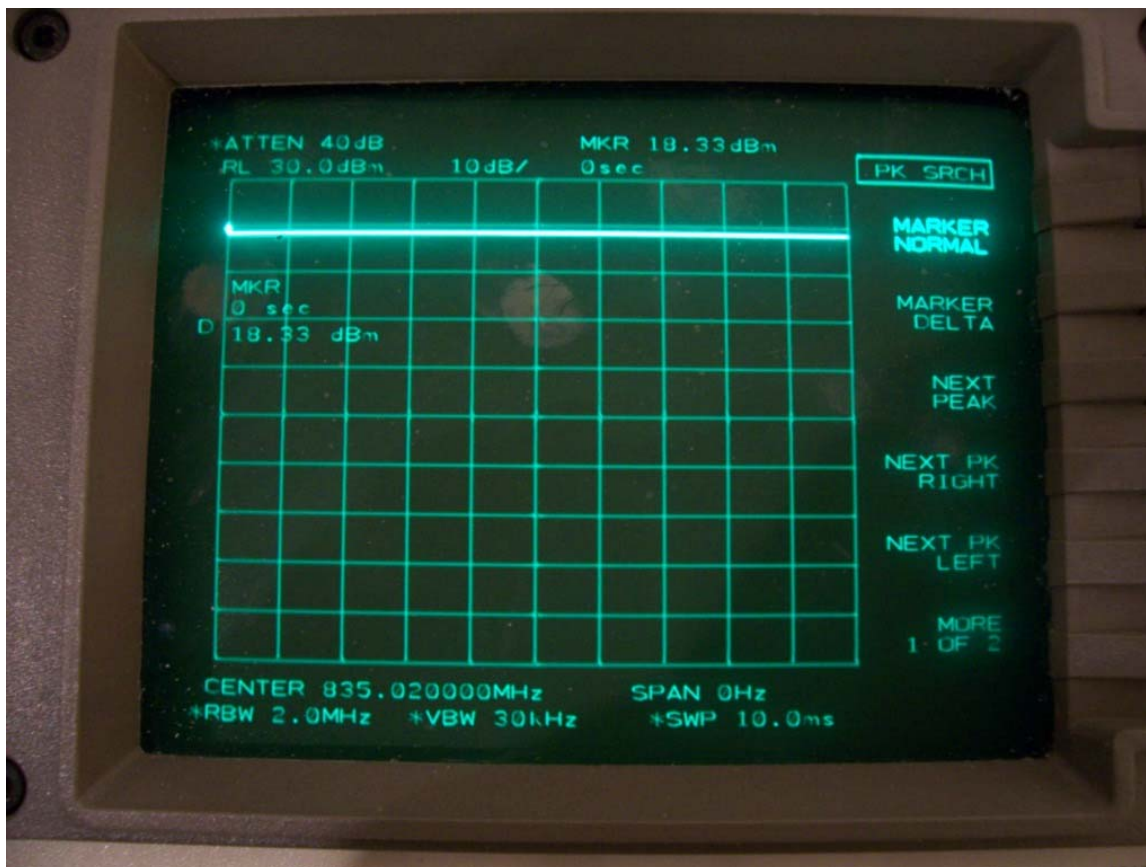


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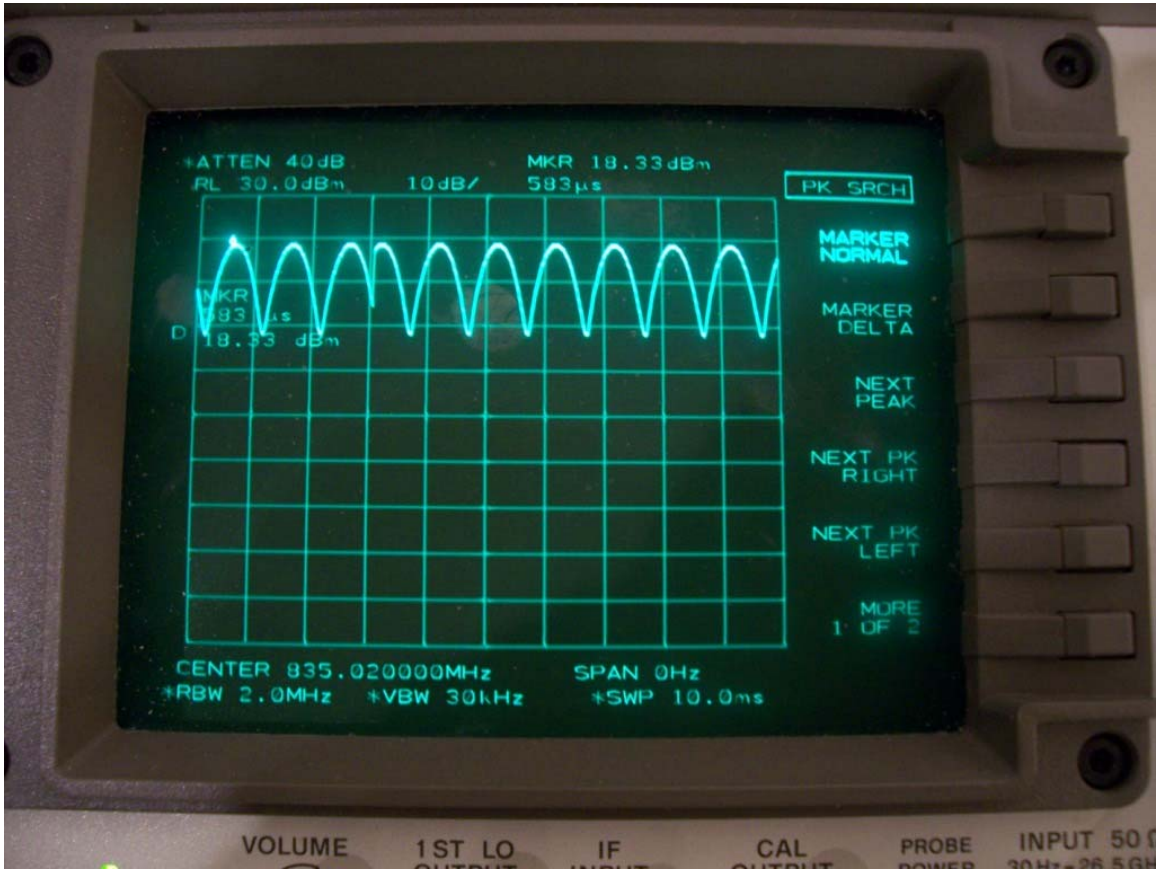
Annex A: Measurement plots and data

A.1 Spectrum analyser plots: CW, 80% AM and CDMA signals



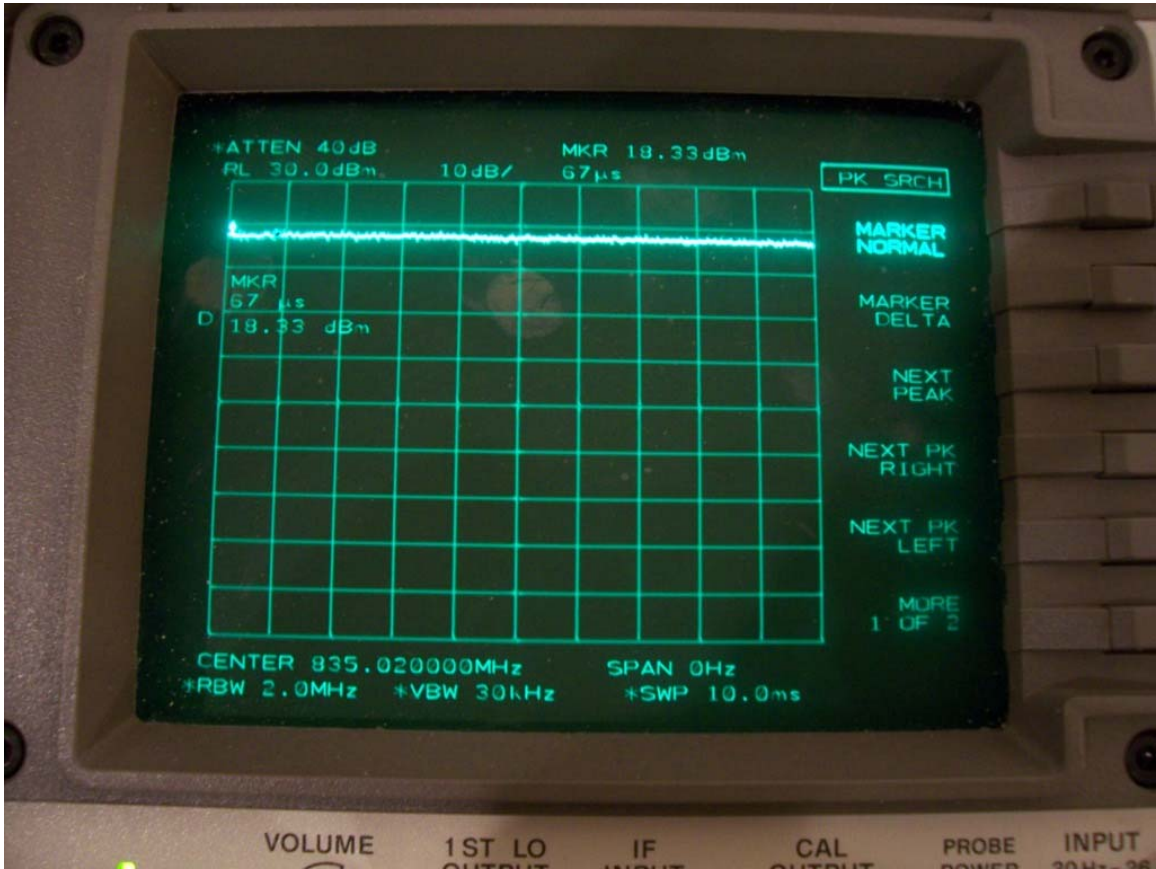
0 Hz Span CW Plot (835MHz)

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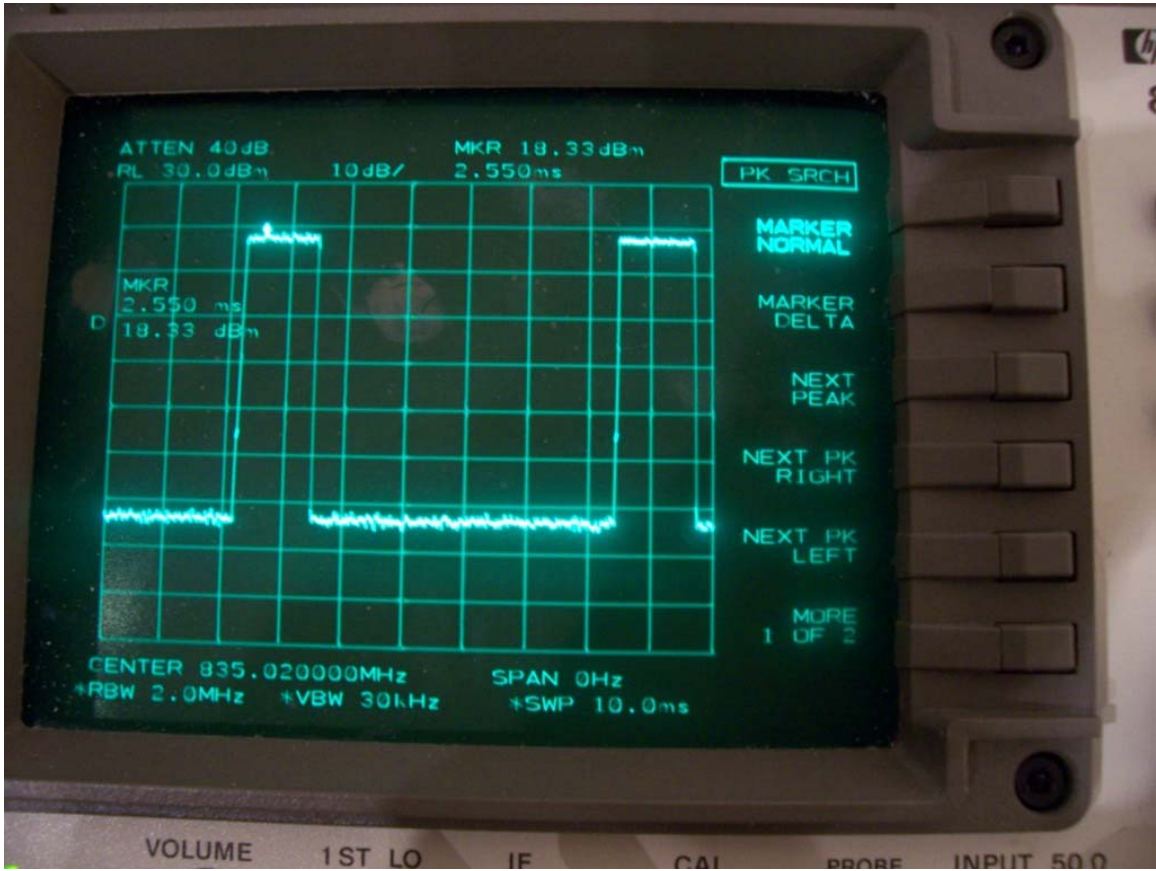
0 Hz Span 80% AM Plot (835MHz)

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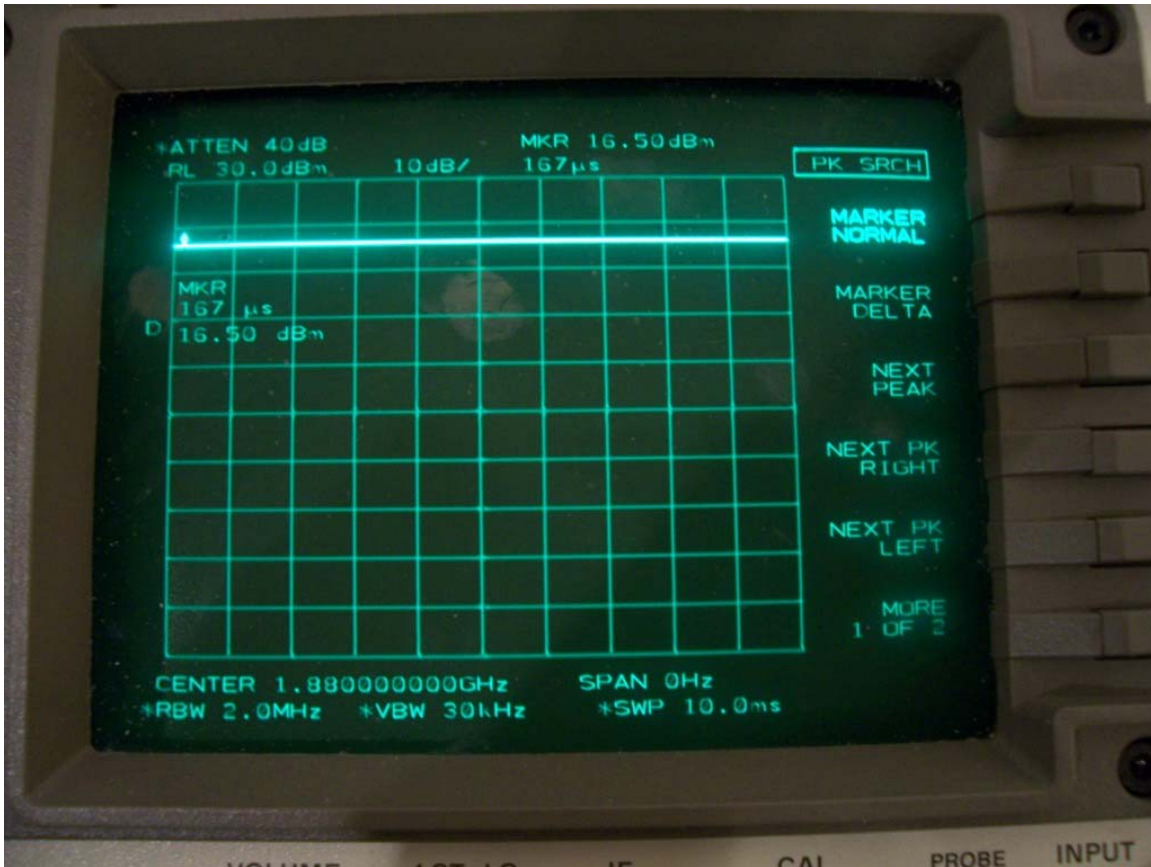
0 Hz Span CDMA Full Rate (835MHz)

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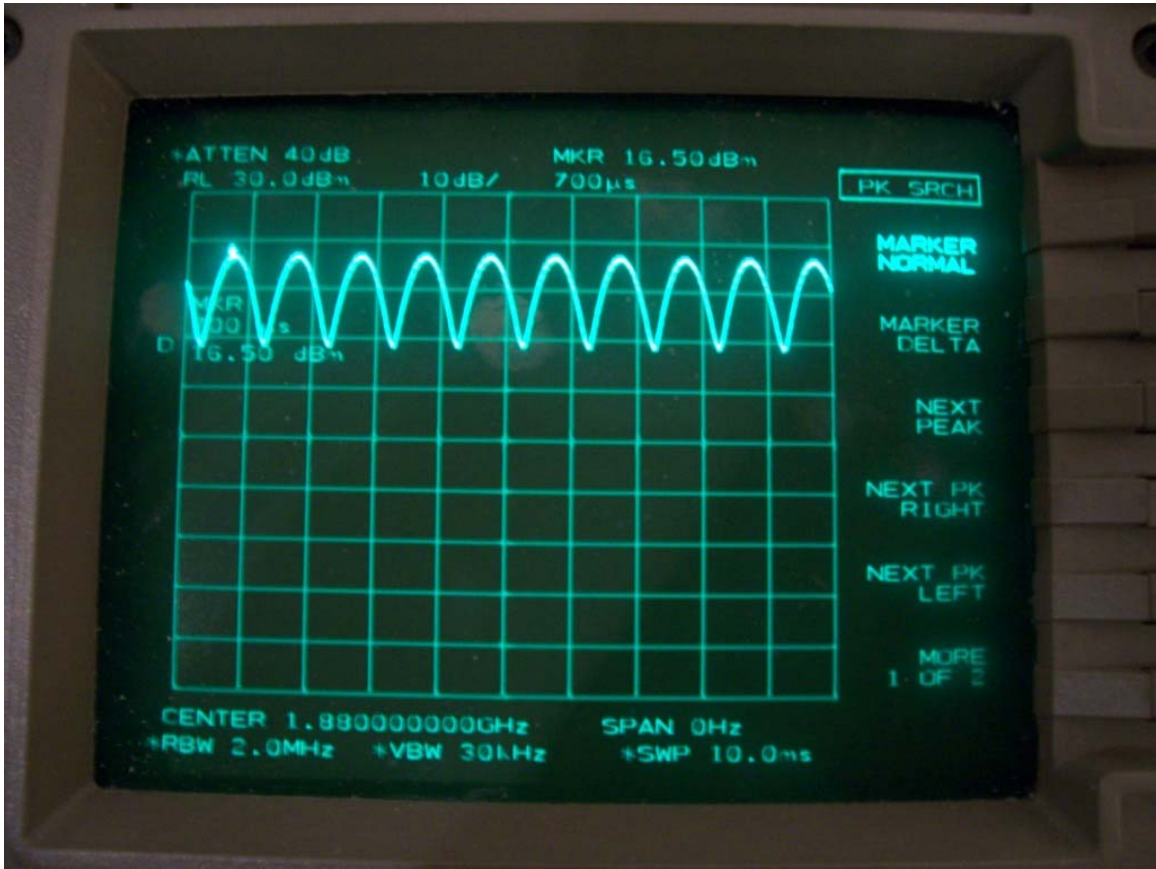
0 Hz Span CDMA 1/8 Rate (835MHz)

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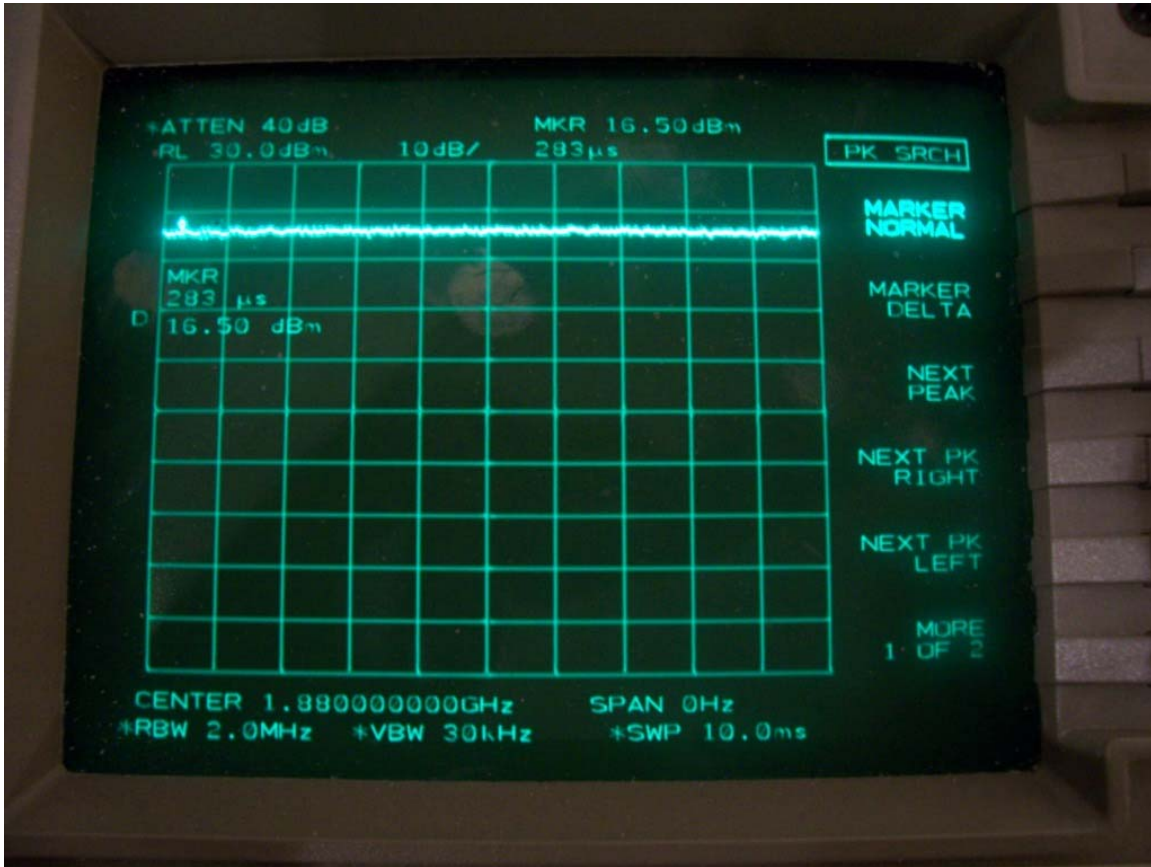
0 Hz Span CW Plot (1880MHz)

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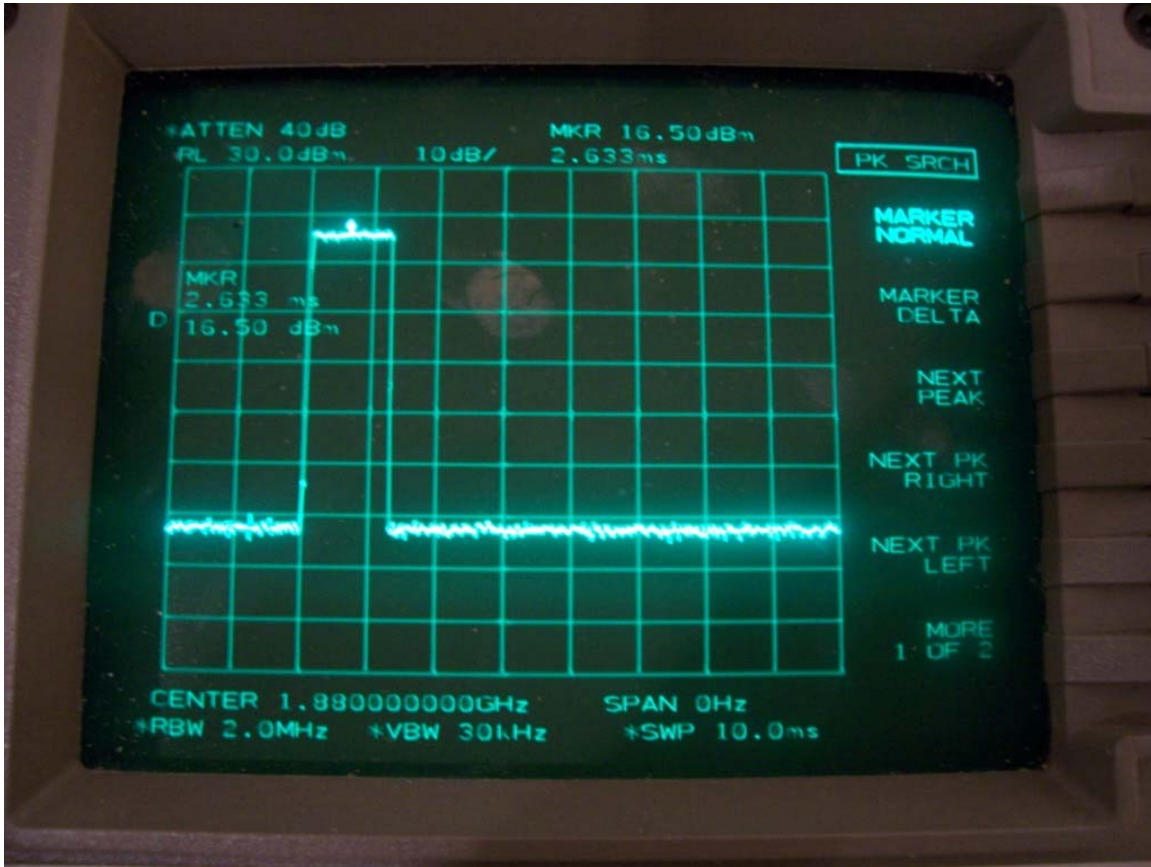
0 Hz Span 80% AM Plot (1880MHz)

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0 Hz Span CDMA Full Rate (1880MHz)

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0 Hz Span CDMA 1/8 Rate (1880MHz)

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A.2 Dipole validation and probe modulation factor plots

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Date/Time: 26/01/2007 9:17:02 AM

Test Laboratory: RTS

HAC_E_835MHz_CW_20dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

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 Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x37x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 54.8 V/m; Power Drift = 0.084 dB

Maximum value of Total (measured) = 174.0 V/m

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 176.3 V/m

Probe Modulation Factor = 1.00

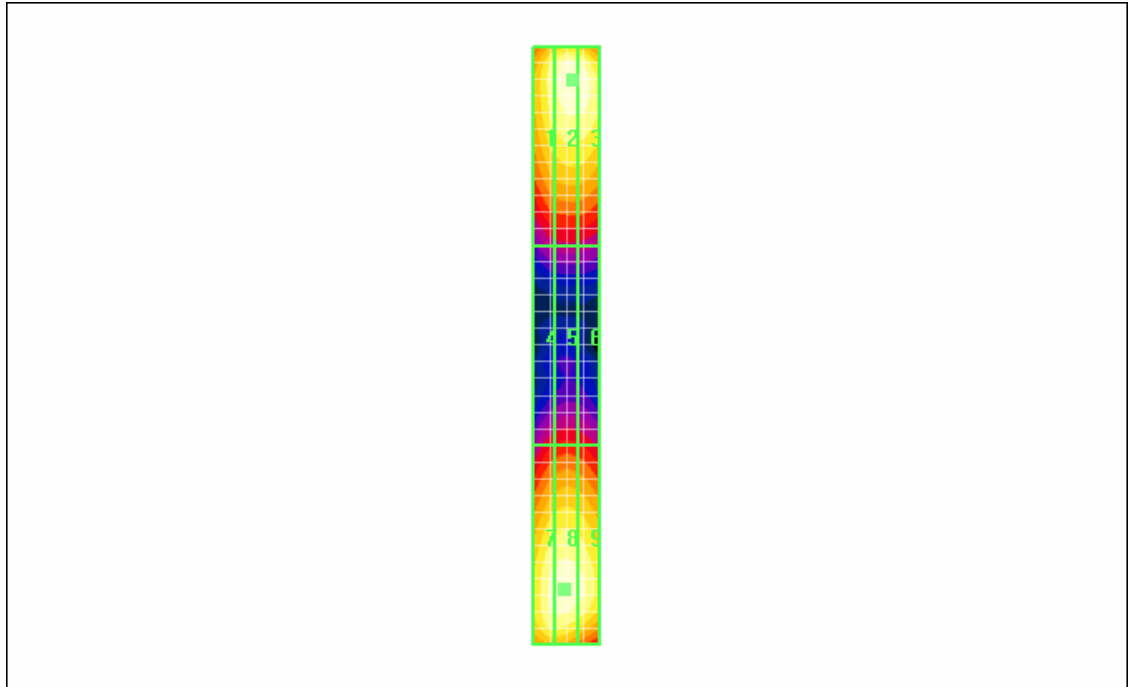
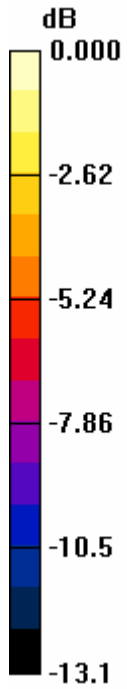
Reference Value = 54.8 V/m; Power Drift = 0.084 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
161.2	176.3	174.9
Grid	Grid	Grid
88.9	91.1	89.1
Grid	Grid	Grid

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0 dB = 176.3V/m

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Date/Time: 26/01/2007 9:24:18 AM

Test Laboratory: RTS

HAC_E_835MHz_CW_18_33dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

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 Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x37x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 48.5 V/m; Power Drift = -0.051 dB

Maximum value of Total (measured) = 149.0 V/m

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 150.6 V/m

Probe Modulation Factor = 1.00

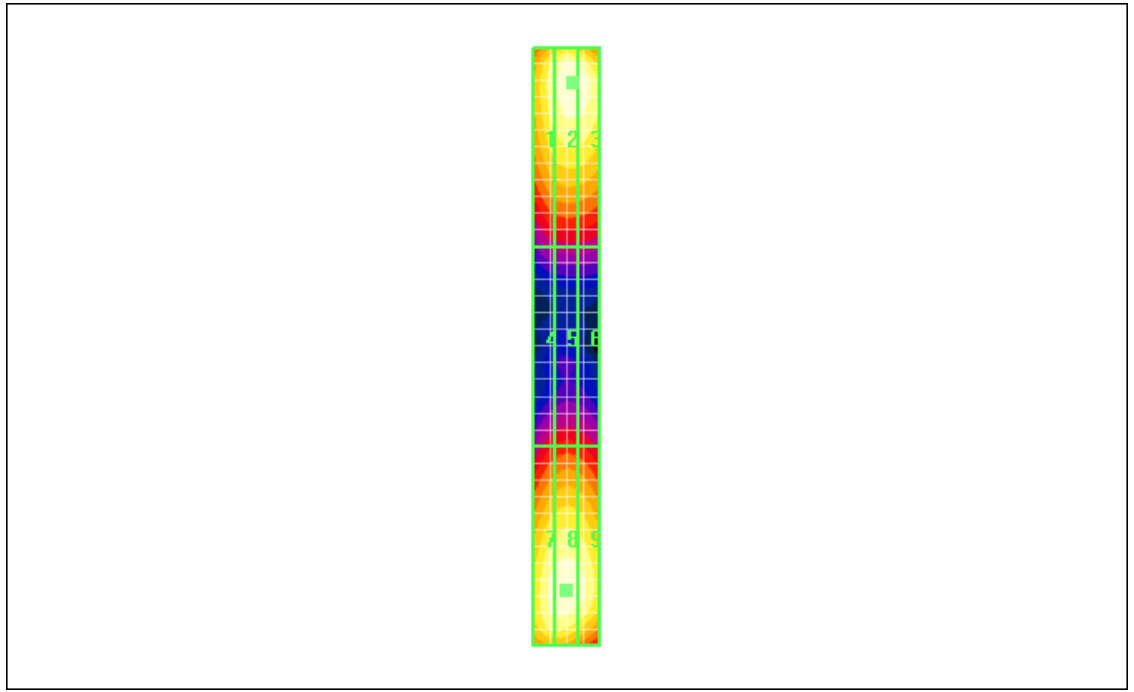
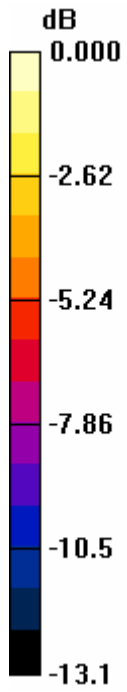
Reference Value = 48.5 V/m; Power Drift = -0.051 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
138.4	150.6	149.1
Grid	Grid	Grid
76.5	78.6	76.8
Grid	Grid	Grid

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0 dB = 150.6V/m

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Date/Time: 26/01/2007 9:31:51 AM

Test Laboratory: RTS

HAC_E_835MHz_AM80%_18_33dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Communication System: AM80%; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x37x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 31.3 V/m; Power Drift = -0.035 dB

Maximum value of Total (measured) = 93.8 V/m

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 94.9 V/m

Probe Modulation Factor = 1.00

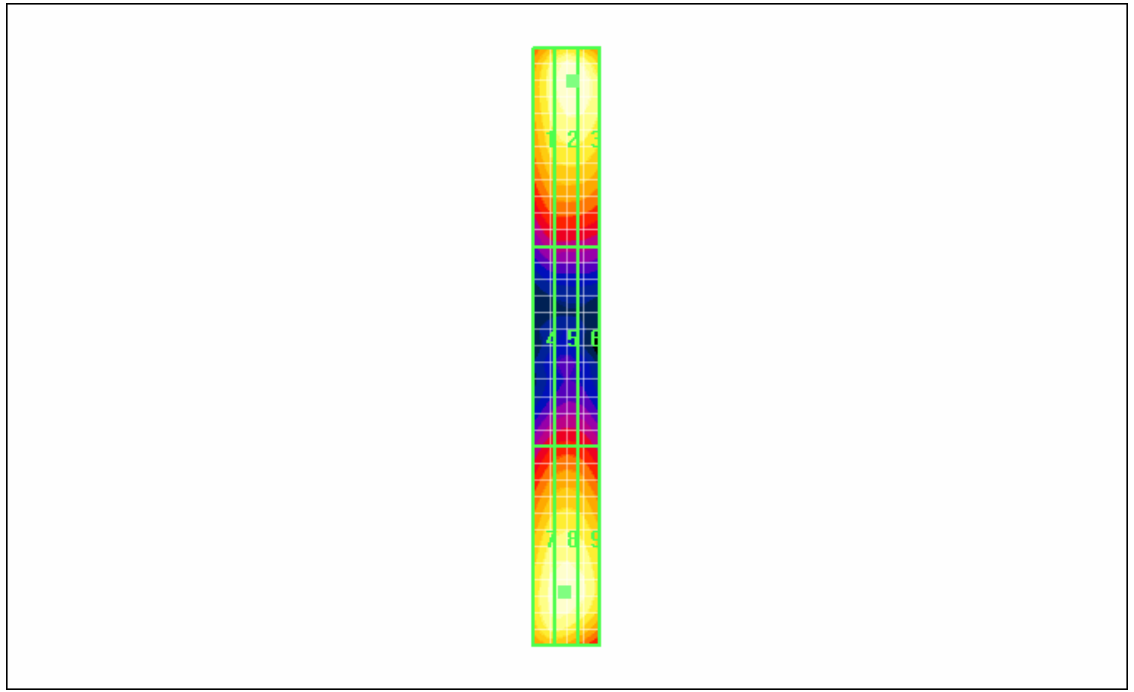
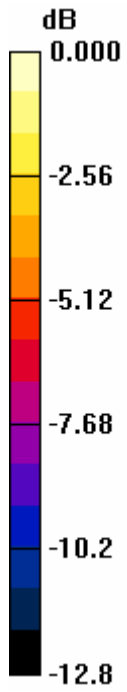
Reference Value = 31.3 V/m; Power Drift = -0.035 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
87.6	94.9	94.2
Grid	Grid	Grid
48.8	50.0	49.0
Grid	Grid	Grid

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0 dB = 94.9V/m

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Date/Time: 26/01/2007 9:42:58 AM

Test Laboratory: RTS

HAC_E_CDMA835MHz_FullRate_18_3dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Communication System: CDMA 800; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x37x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 47.7 V/m; Power Drift = 0.056 dB

Maximum value of Total (measured) = 147.5 V/m

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 150.3 V/m

Probe Modulation Factor = 1.00

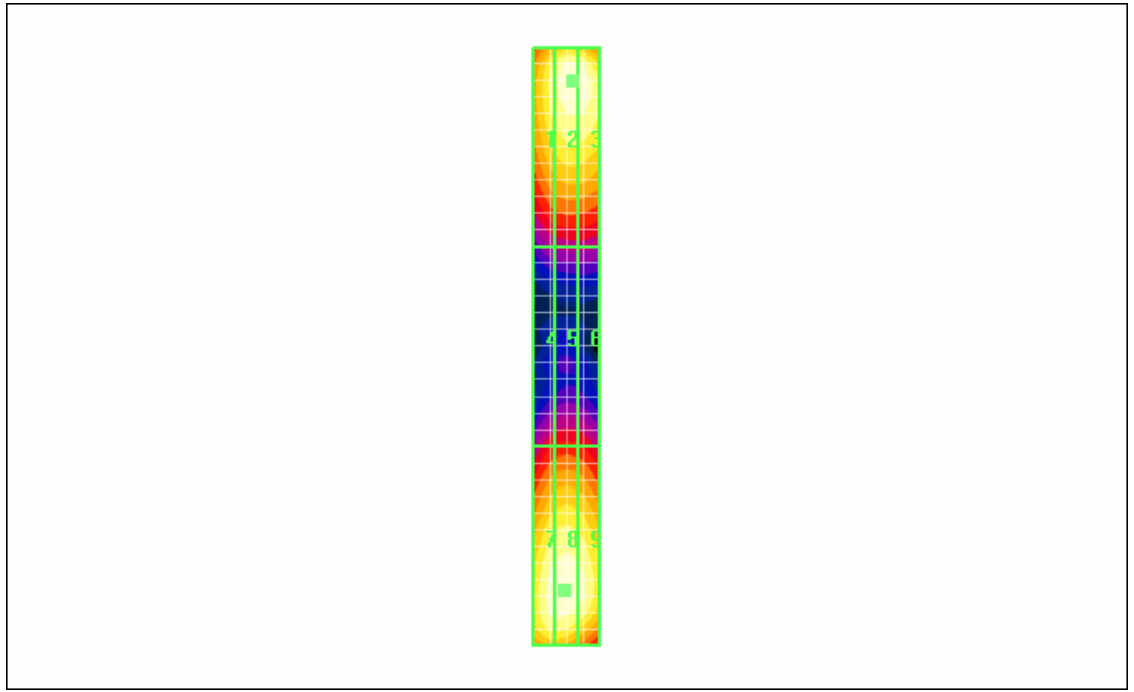
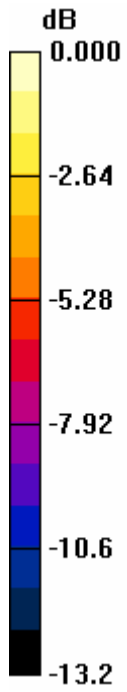
Reference Value = 47.7 V/m; Power Drift = 0.056 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
134.7	150.3	149.2
Grid	Grid	Grid
76.4	77.5	75.8
Grid	Grid	Grid

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0 dB = 150.3V/m

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Date/Time: 26/01/2007 9:53:27 AM

Test Laboratory: RTS

HAC_E_CDMA835MHz_eighth_18_3dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Communication System: CDMA 800; Frequency: 835 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x37x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 16.9 V/m; Power Drift = 0.133 dB

Maximum value of Total (measured) = 60.0 V/m

E Scan - ER probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x361x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 60.1 V/m

Probe Modulation Factor = 1.00

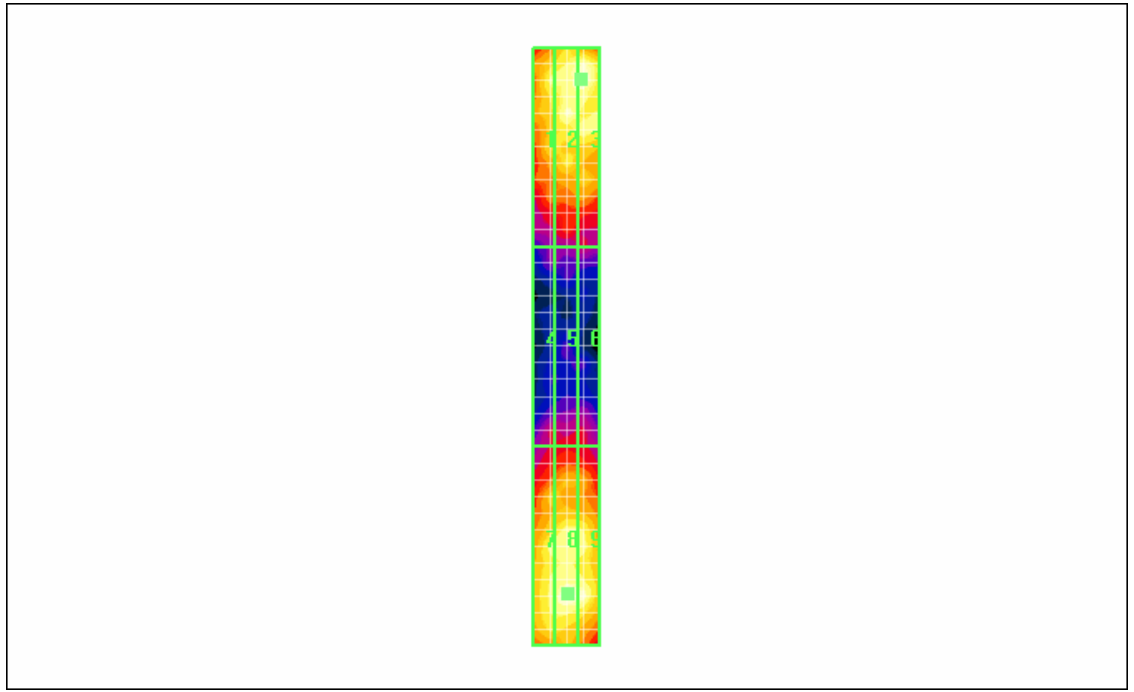
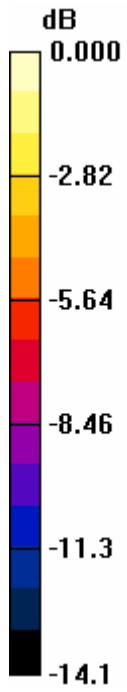
Reference Value = 16.9 V/m; Power Drift = 0.133 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
51.6	59.0	59.8
Grid	Grid	Grid
26.7	27.6	27.0
Grid	Grid	Grid

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0 dB = 60.1V/m

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Date/Time: 25/01/2007 11:16:19 AM

Test Laboratory: RTS

HAC_E_1880MHz_CW_20dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

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 Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 71.6 V/m; Power Drift = -0.004 dB

Maximum value of Total (measured) = 139.9 V/m

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 142.9 V/m

Probe Modulation Factor = 1.00

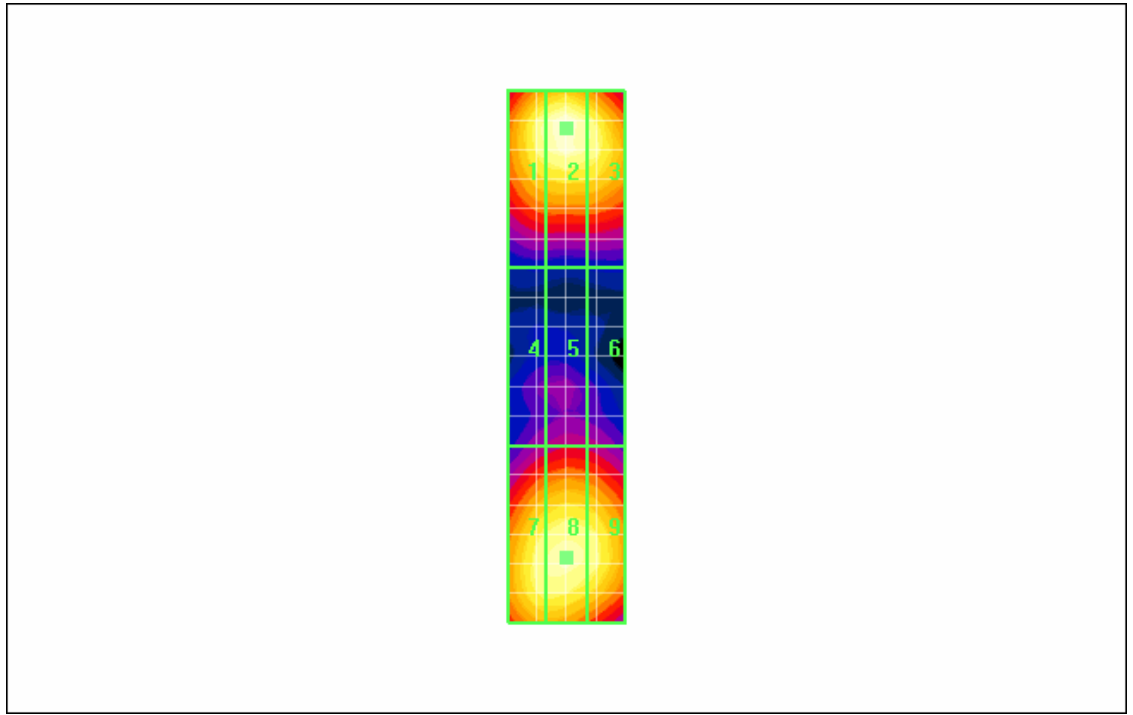
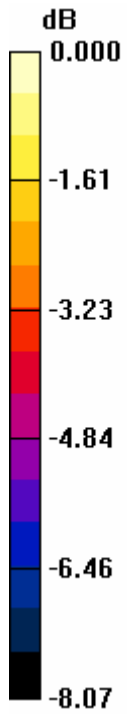
Reference Value = 71.6 V/m; Power Drift = -0.004 dB

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

Peak E-field in V/m

Grid	Grid	Grid
137.4	142.9	136.1
Grid	Grid	Grid
83.2	86.7	85.4
Grid	Grid	Grid

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0 dB = 142.9V/m

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Date/Time: 25/01/2007 11:22:05 AM

Test Laboratory: RTS

HAC_E_1880MHz_CW_16_5dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

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 Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 57.5 V/m; Power Drift = -0.005 dB

Maximum value of Total (measured) = 112.6 V/m

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 110.1 V/m

Probe Modulation Factor = 1.00

Reference Value = 57.5 V/m; Power Drift = -0.005 dB

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

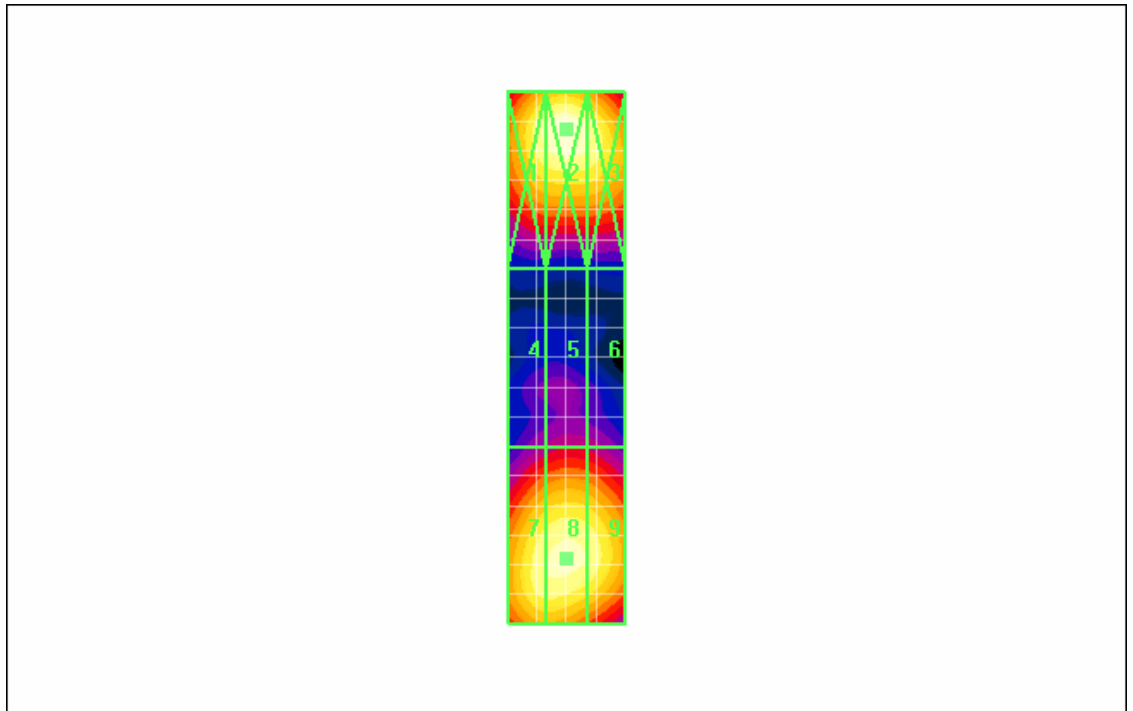
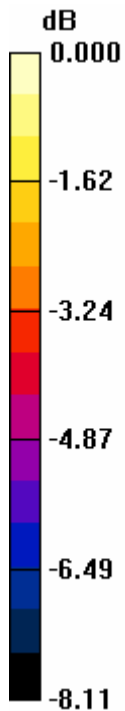
Peak E-field in V/m

Grid	Grid	Grid
110.4	115.0	109.5
Grid	Grid	Grid
66.9	70.1	68.8
Grid	Grid	Grid

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 115.0 V/m
Probe Modulation Factor = 1.00
Reference Value = 57.5 V/m; Power Drift = -0.005 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
110.4	115.0	109.5
Grid	Grid	Grid
66.9	70.1	68.8
Grid	Grid	Grid



0 dB = 115.0V/m

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Date/Time: 25/01/2007 11:27:14 AM

Test Laboratory: RTS

HAC_E_1880MHz_80%AM_16_5dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Communication System: 80%AM; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 37.8 V/m; Power Drift = -0.006 dB

Maximum value of Total (measured) = 73.9 V/m

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 72.0 V/m

Probe Modulation Factor = 1.00

Reference Value = 37.8 V/m; Power Drift = -0.006 dB

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

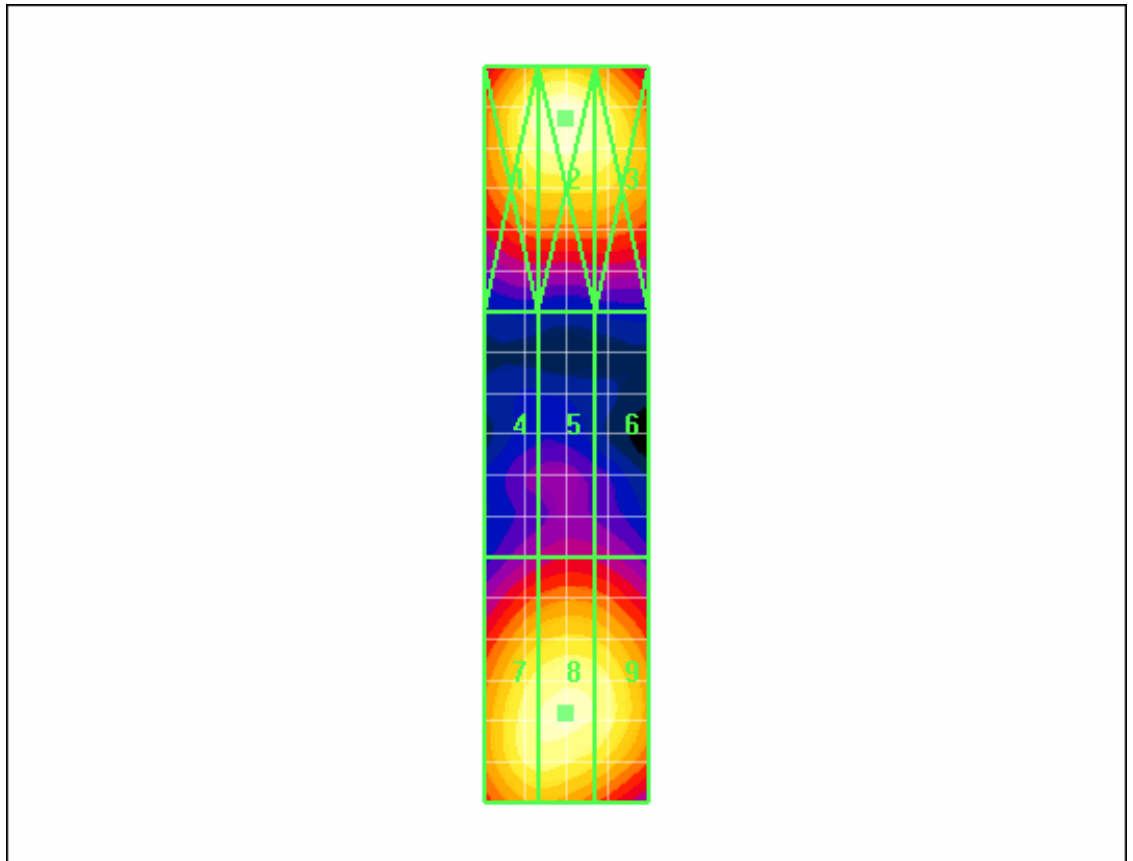
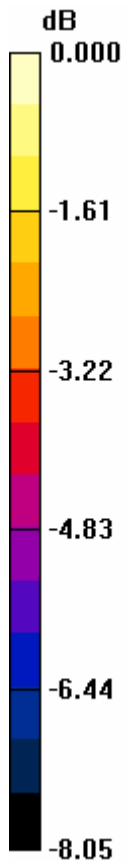
Peak E-field in V/m

Grid	Grid	Grid
72.7	75.4	71.8
Grid	Grid	Grid
44.2	46.3	45.5
Grid	Grid	Grid

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 75.4 V/m
Probe Modulation Factor = 1.00
Reference Value = 37.8 V/m; Power Drift = -0.006 dB
Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
72.7	75.4	71.8
Grid	Grid	Grid
44.2	46.3	45.5
Grid	Grid	Grid



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0 dB = 75.4V/m

Date/Time: 25/01/2007 11:39:53 AM

Test Laboratory: RTS

HAC_E_CDMA1880MHz_FullRate_16_5dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 50.9 V/m; Power Drift = -0.033 dB

Maximum value of Total (measured) = 103.0 V/m

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 105.1 V/m

Probe Modulation Factor = 1.00

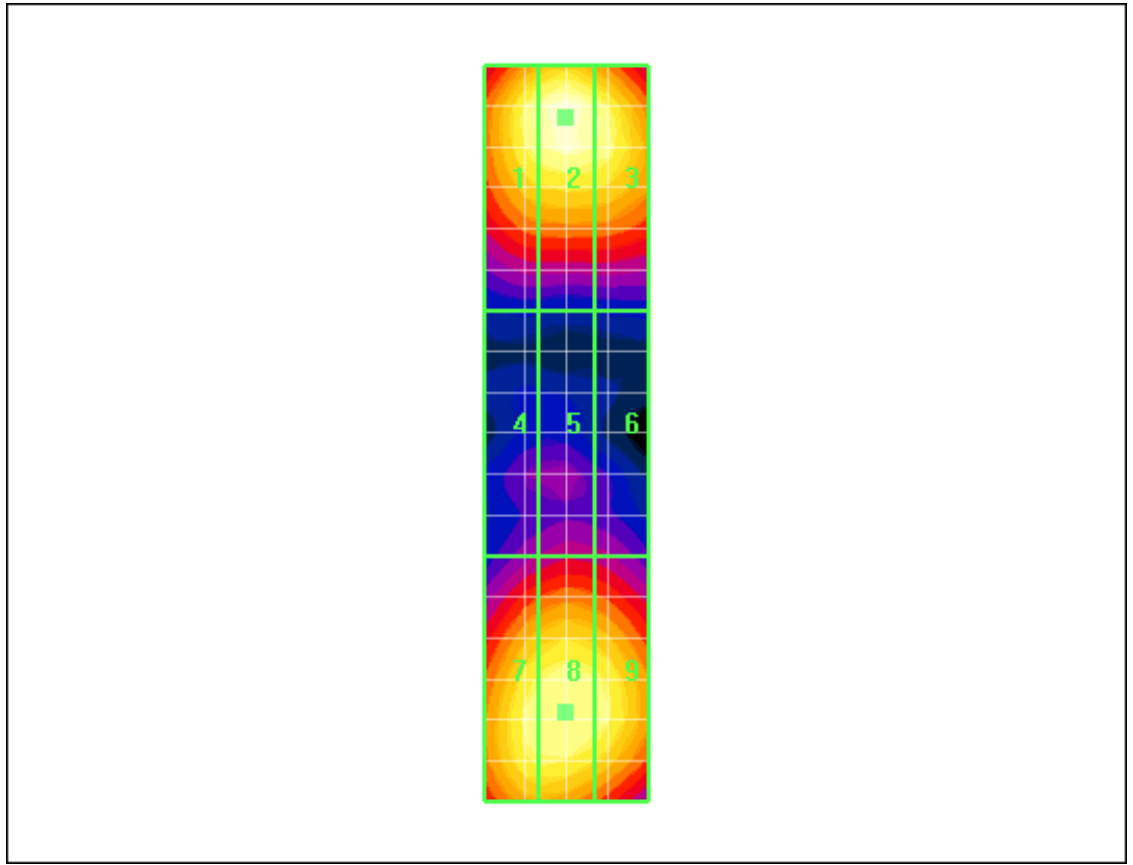
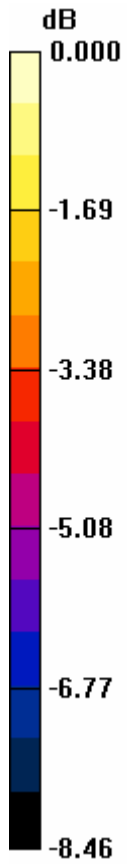
Reference Value = 50.9 V/m; Power Drift = -0.033 dB

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

Peak E-field in V/m

Grid	Grid	Grid
100.0	105.1	100.1
Grid	Grid	Grid
59.1	62.1	61.0
Grid	Grid	Grid

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0 dB = 105.1V/m

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Date/Time: 25/01/2007 3:25:15 PM

Test Laboratory: RTS

HAC_E_CDMA1880MHz_eighth_16_5dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 18.2 V/m; Power Drift = -0.009 dB

Maximum value of Total (measured) = 39.8 V/m

E Scan - ER probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 37.6 V/m

Probe Modulation Factor = 1.00

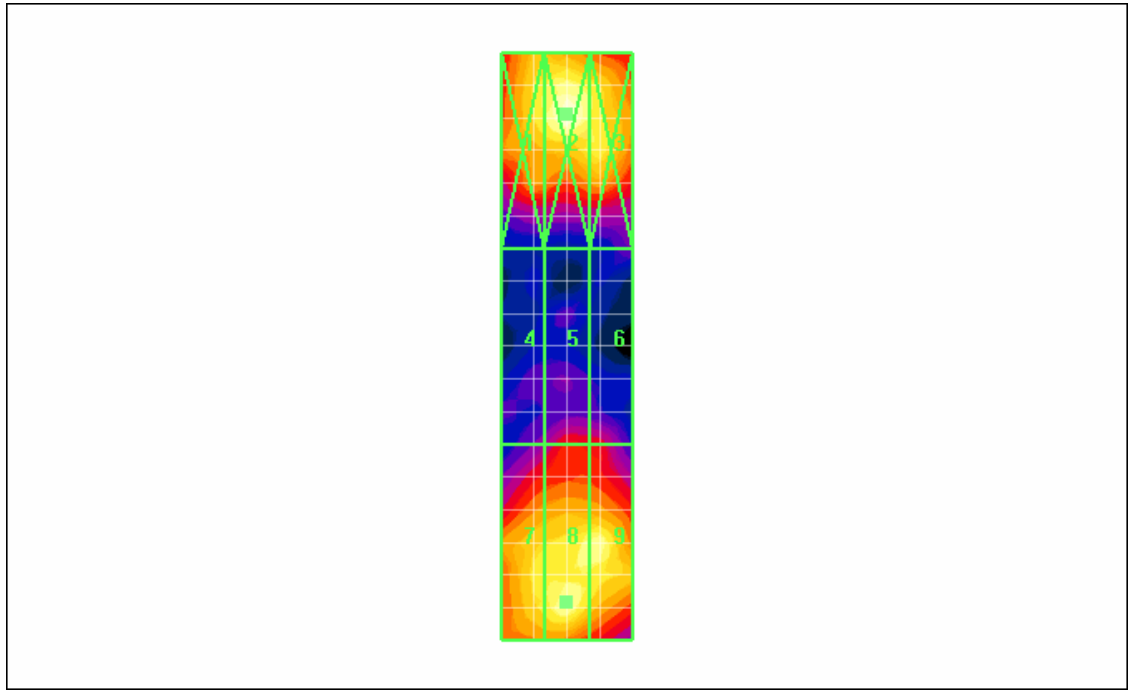
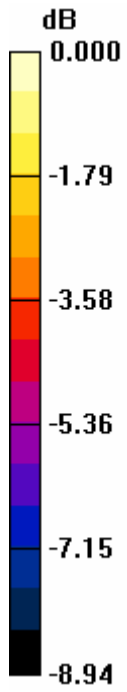
Reference Value = 18.2 V/m; Power Drift = -0.009 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
35.5	40.0	35.4
Grid	Grid	Grid
21.3	25.3	24.9
Grid	Grid	Grid

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0 dB = 40.0V/m

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Date/Time: 25/01/2007 5:06:50 PM

Test Laboratory: RTS

HAC_H_835MHz_CW_20dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

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: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.467 A/m; Power Drift = -0.130 dB

Maximum value of Total (measured) = 0.436 A/m

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.436 A/m

Probe Modulation Factor = 1.00

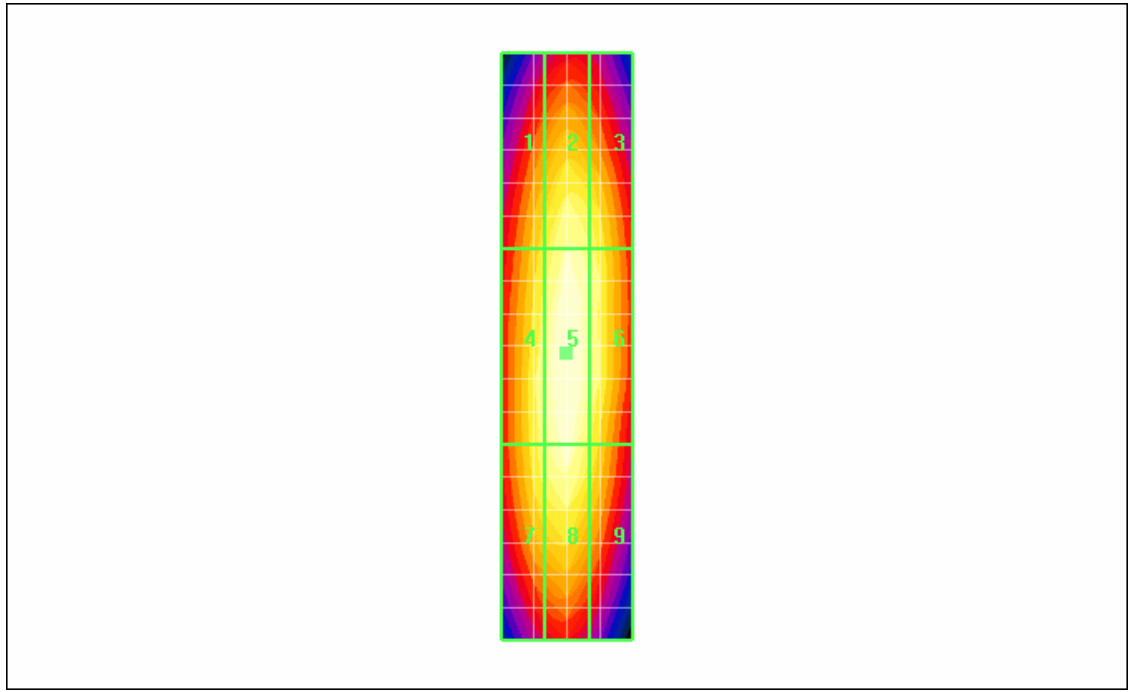
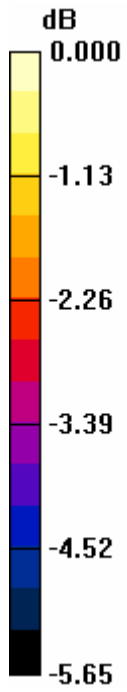
Reference Value = 0.467 A/m; Power Drift = -0.130 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.394	0.419	0.410
Grid	Grid	Grid
0.416	0.436	0.419
Grid	Grid	Grid

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0 dB = 0.436A/m

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Date/Time: 25/01/2007 6:05:12 PM

Test Laboratory: RTS

HAC_H_835MHz_CW_18_33dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

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: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x15x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.396 A/m; Power Drift = -0.001 dB

Maximum value of Total (measured) = 0.372 A/m

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x141x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.372 A/m

Probe Modulation Factor = 1.00

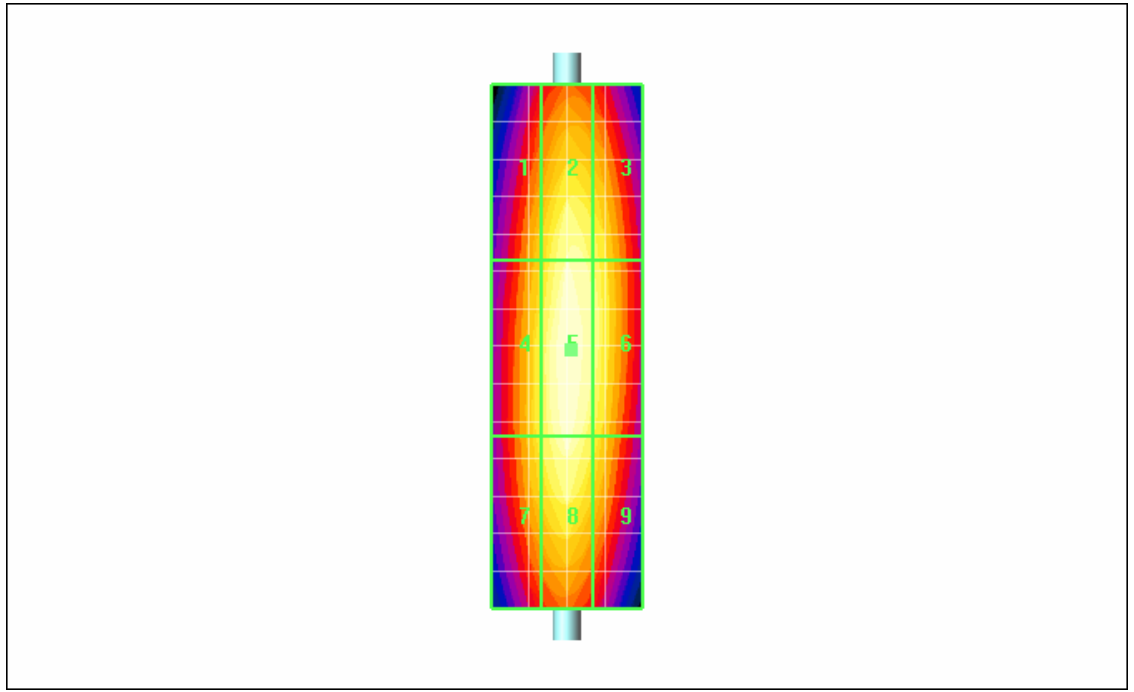
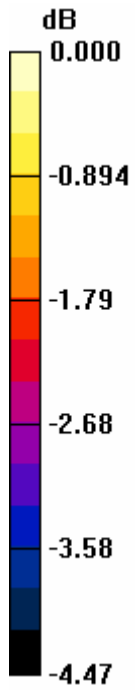
Reference Value = 0.396 A/m; Power Drift = -0.001 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.337	0.362	0.354
Grid	Grid	Grid
0.349	0.372	0.360
Grid	Grid	Grid

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0 dB = 0.372A/m

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Test Laboratory: RTS

HAC_H_835MHz_80%am_18_33dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Communication System: 80%AM; Frequency: 835 MHz;Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x15x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.252 A/m; Power Drift = -0.056 dB

Maximum value of Total (measured) = 0.235 A/m

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x141x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.235 A/m

Probe Modulation Factor = 1.00

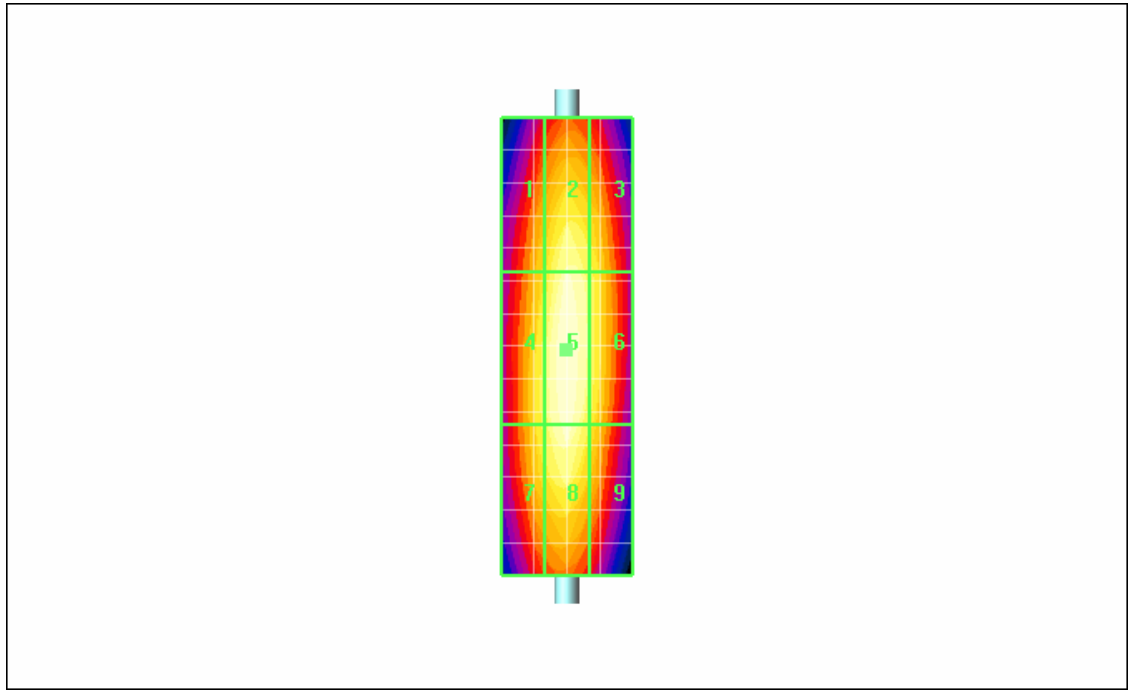
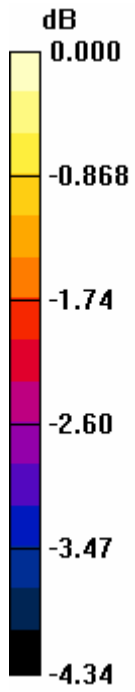
Reference Value = 0.252 A/m; Power Drift = -0.056 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.215	0.229	0.222
Grid	Grid	Grid
0.224	0.235	0.225
Grid	Grid	Grid

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0 dB = 0.235A/m

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Test Laboratory: RTS

HAC_H_CDMA_835MHz_18_33dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Communication System: CDMA 800; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x15x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.390 A/m; Power Drift = -0.023 dB

Maximum value of Total (measured) = 0.365 A/m

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x141x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.366 A/m

Probe Modulation Factor = 1.00

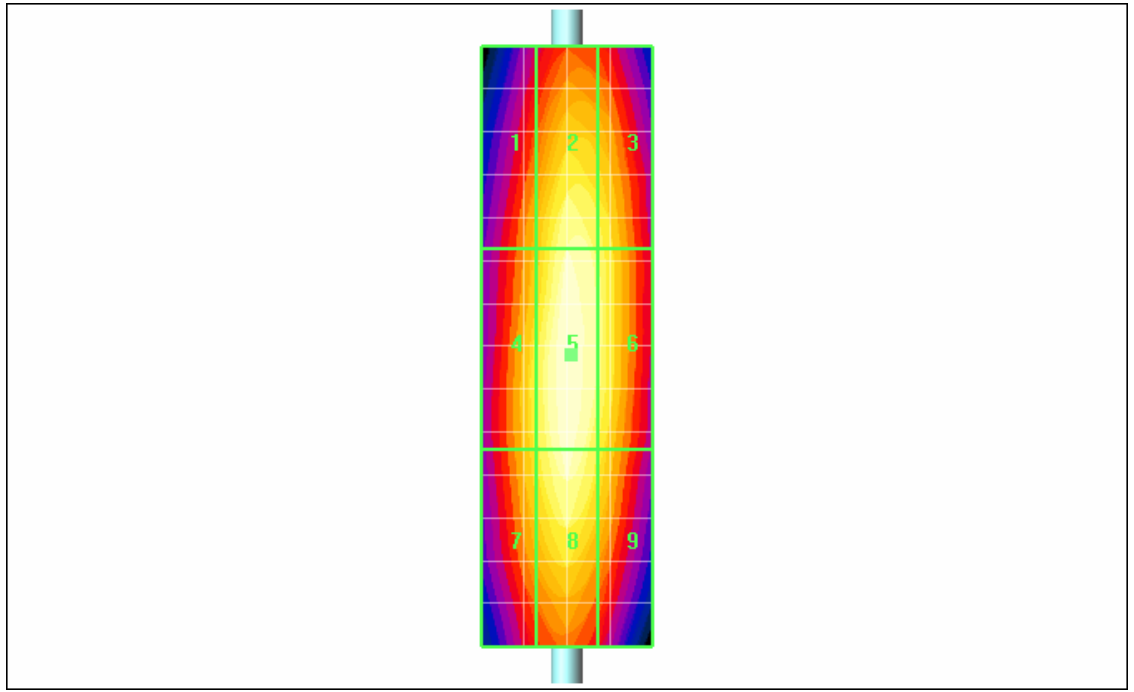
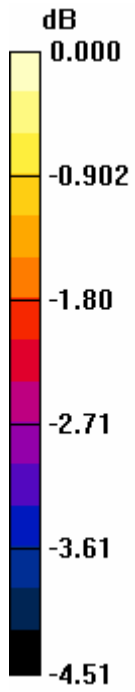
Reference Value = 0.390 A/m; Power Drift = -0.023 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.326	0.356	0.348
Grid	Grid	Grid
0.343	0.366	0.353
Grid	Grid	Grid

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0 dB = 0.366A/m

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Date/Time: 25/01/2007 6:19:28 PM

Test Laboratory: RTS

HAC_H_CDMA_835MHz_eigth_18_33dBm

DUT: HAC-Dipole 835 MHz; Type: D835V3; Serial: Not Specified

Communication System: CDMA 800; Frequency: 835 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(5x15x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.144 A/m; Power Drift = -0.008 dB

Maximum value of Total (measured) = 0.152 A/m

H Scan - H3DV5 probe center 10mm above CD835 Dipole/Hearing Aid Compatibility Test

(41x141x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 1.00

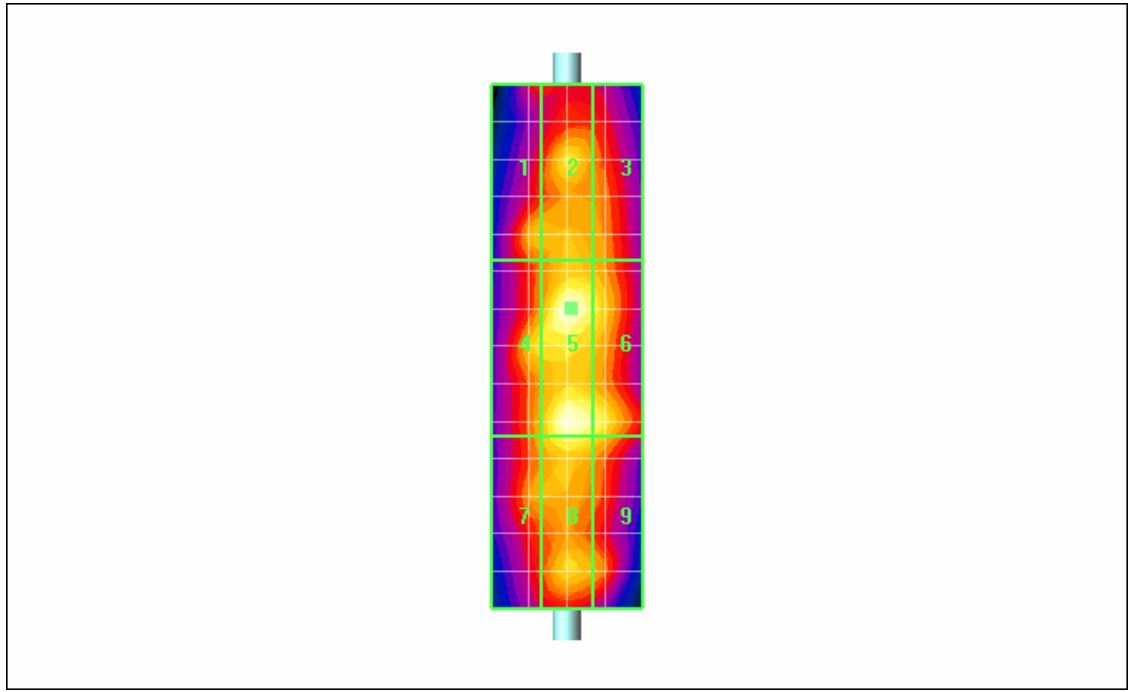
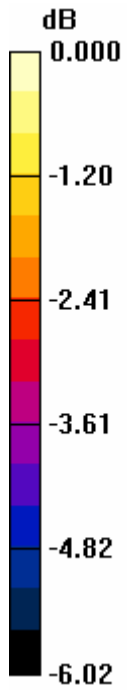
Reference Value = 0.144 A/m; Power Drift = -0.008 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.132	0.137	0.127
Grid	Grid	Grid
0.136	0.153	0.145
Grid	Grid	Grid

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0 dB = 0.153A/m

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Date/Time: 25/01/2007 4:14:43 PM

Test Laboratory: RTS

HAC_H_1880MHz_CW_20dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

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: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.454 A/m; Power Drift = 0.006 dB

Maximum value of Total (measured) = 0.429 A/m

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.429 A/m

Probe Modulation Factor = 1.00

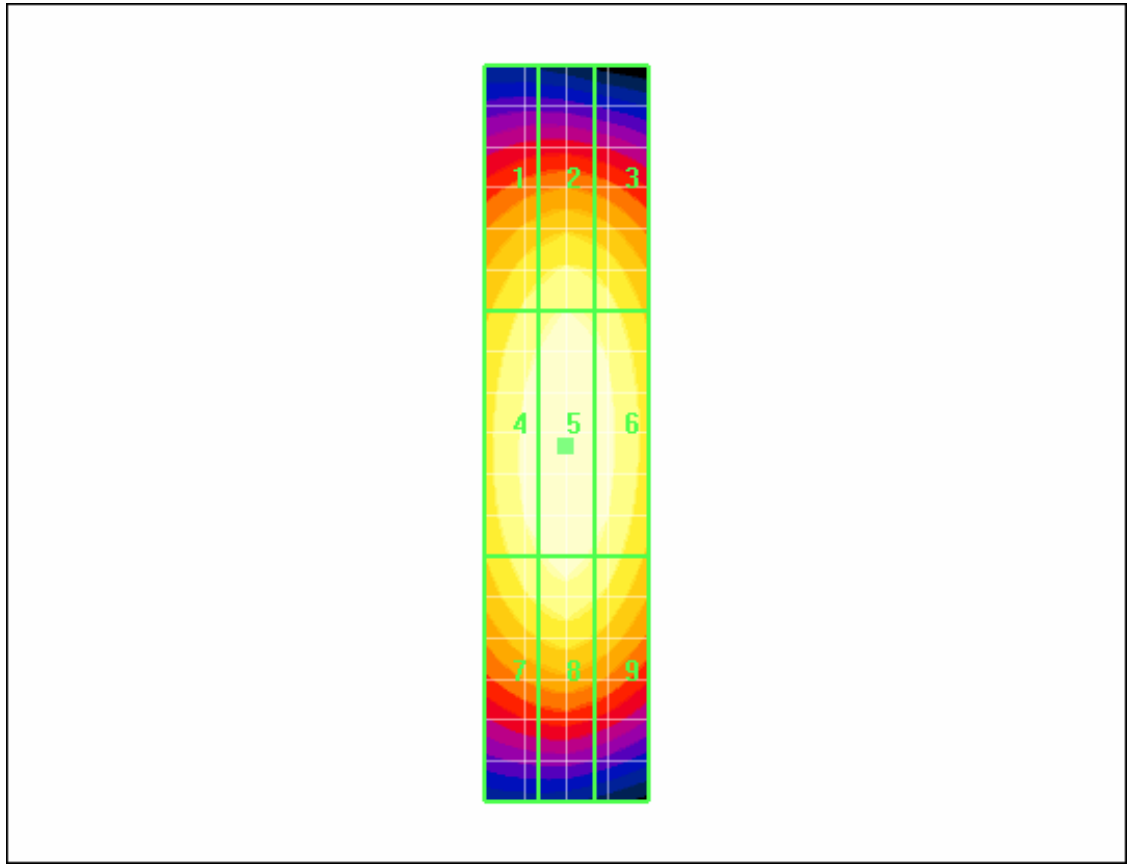
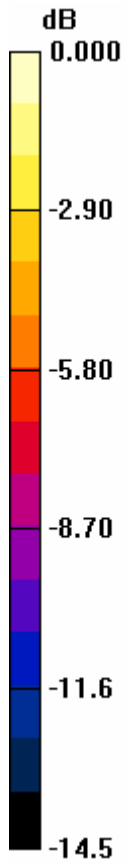
Reference Value = 0.454 A/m; Power Drift = 0.006 dB

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

Peak H-field in A/m

Grid	Grid	Grid
0.366	0.386	0.374
Grid	Grid	Grid
0.409	0.429	0.411
Grid	Grid	Grid

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0 dB = 0.429A/m

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Date/Time: 25/01/2007 4:24:57 PM

Test Laboratory: RTS

HAC_H_1880MHz_CW_16_5dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

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: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.364 A/m; Power Drift = -0.005 dB

Maximum value of Total (measured) = 0.344 A/m

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.344 A/m

Probe Modulation Factor = 1.00

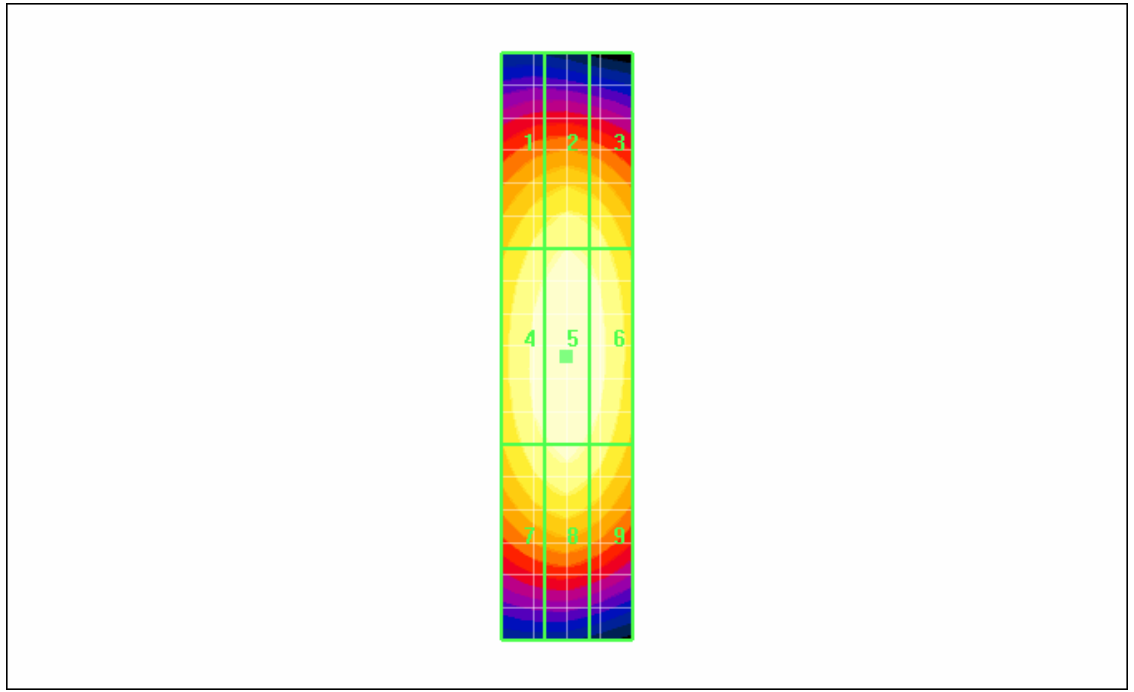
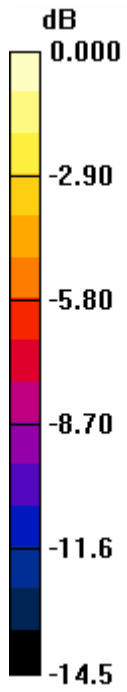
Reference Value = 0.364 A/m; Power Drift = -0.005 dB

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

Peak H-field in A/m

Grid	Grid	Grid
0.293	0.309	0.300
Grid	Grid	Grid
0.328	0.344	0.330
Grid	Grid	Grid

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0 dB = 0.344A/m

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Test Laboratory: RTS

HAC_H_1880MHz_80%AM_16_5dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Communication System: 80%AM; Frequency: 1880 MHz;Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.245 A/m; Power Drift = 0.013 dB

Maximum value of Total (measured) = 0.230 A/m

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.231 A/m

Probe Modulation Factor = 1.00

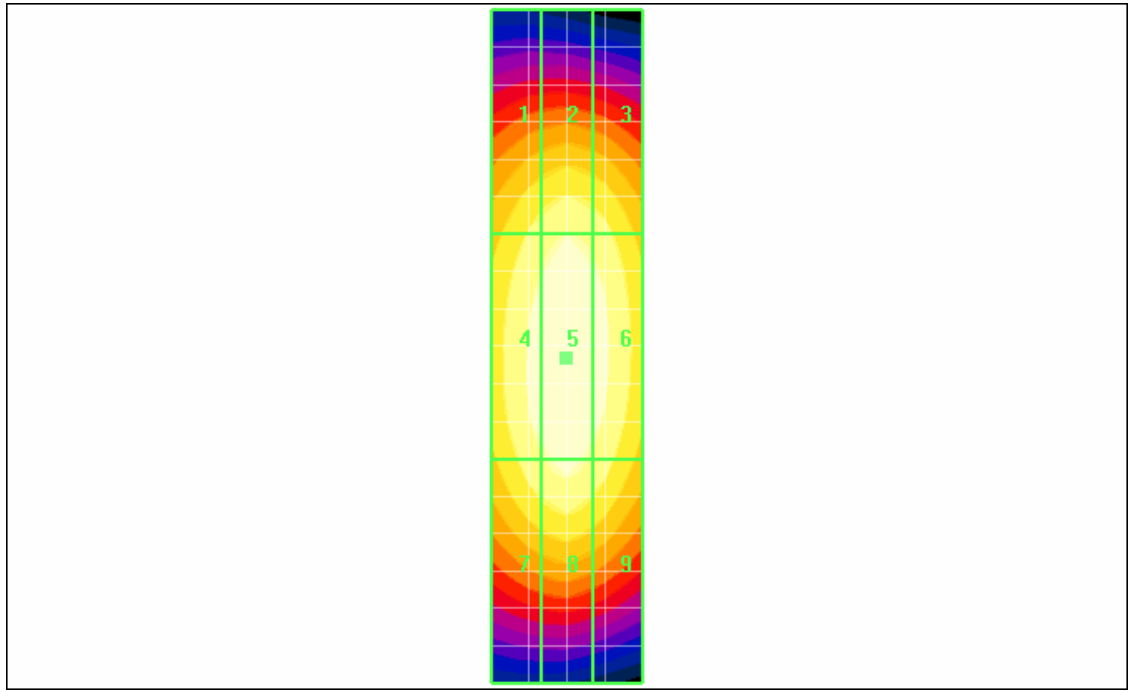
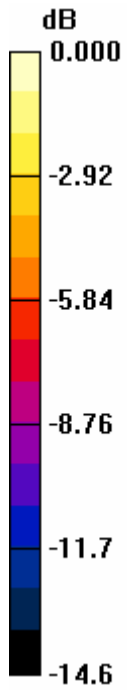
Reference Value = 0.245 A/m; Power Drift = 0.013 dB

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

Peak H-field in A/m

Grid	Grid	Grid
0.195	0.206	0.199
Grid	Grid	Grid
0.218	0.231	0.220
Grid	Grid	Grid

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0 dB = 0.231A/m

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Date/Time: 25/01/2007 4:36:47 PM

Test Laboratory: RTS

HAC_H_CDMA1880MHz_FullRate_16_5dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.343 A/m; Power Drift = -0.059 dB

Maximum value of Total (measured) = 0.319 A/m

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.319 A/m

Probe Modulation Factor = 1.00

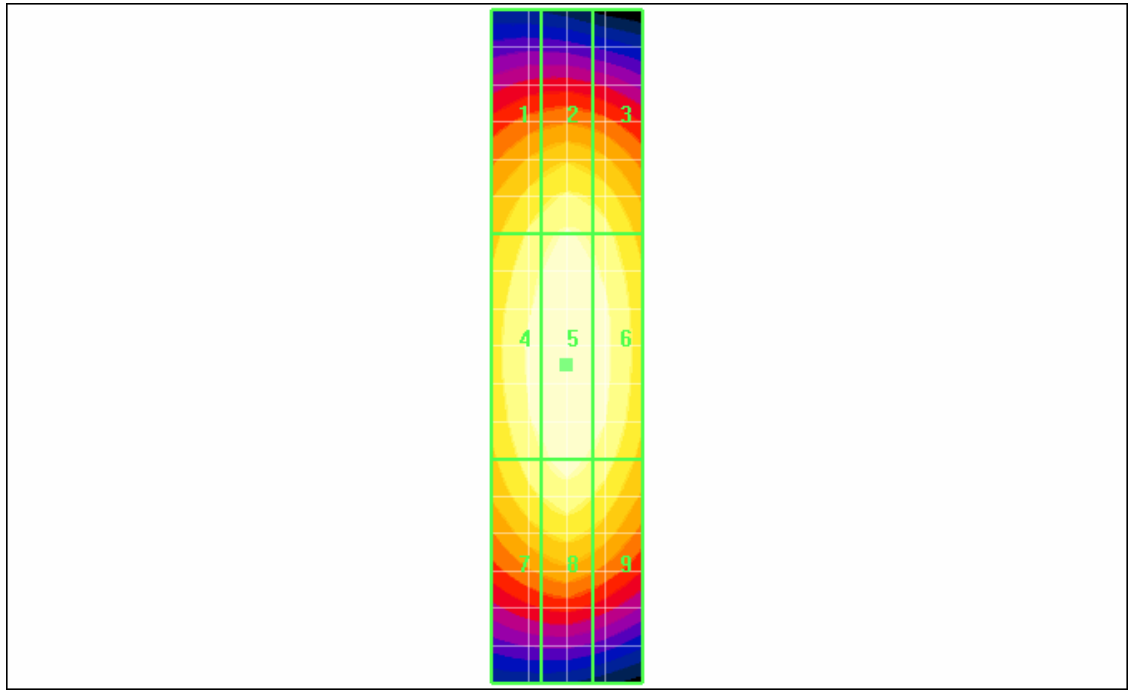
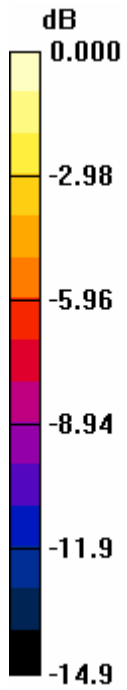
Reference Value = 0.343 A/m; Power Drift = -0.059 dB

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

Peak H-field in A/m

Grid	Grid	Grid
0.270	0.290	0.277
Grid	Grid	Grid
0.303	0.319	0.305
Grid	Grid	Grid

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0 dB = 0.319A/m

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Test Laboratory: RTS

HAC_H_CDMA1880MHz_eighth_16_5dBm

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1880 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(5x19x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.136 A/m; Power Drift = 0.585 dB

Maximum value of Total (measured) = 0.126 A/m

H Scan - H3DV5 probe center 10mm above CD1880 Dipole/Hearing Aid Compatibility Test

(41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.129 A/m

Probe Modulation Factor = 1.00

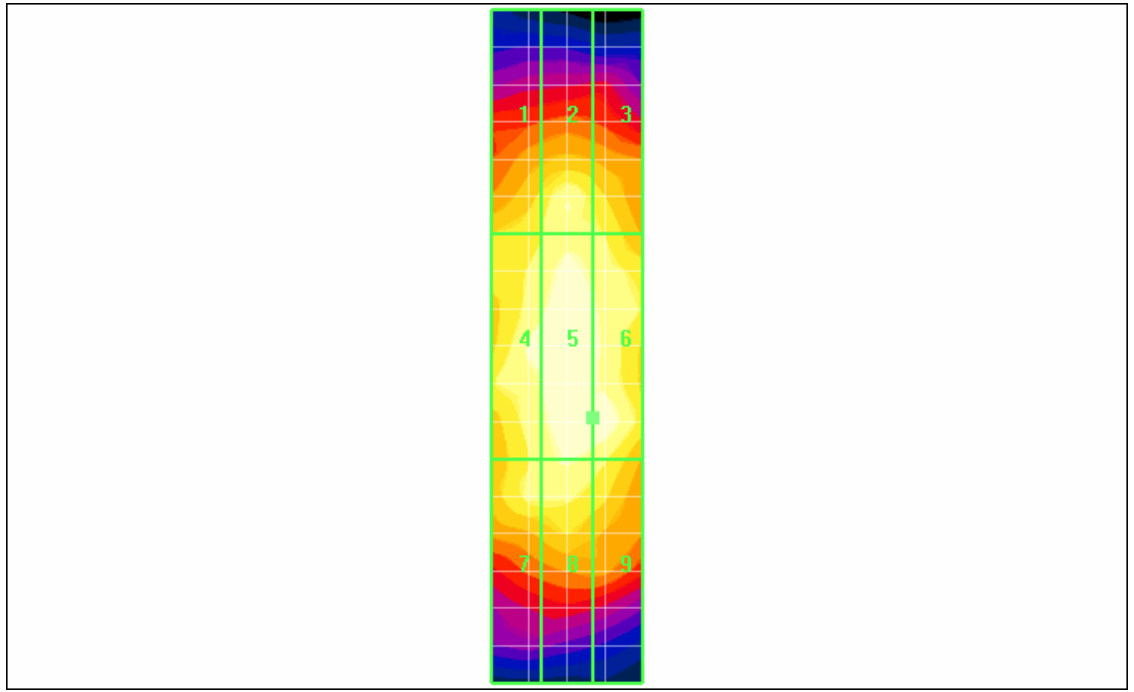
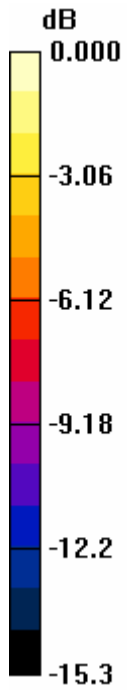
Reference Value = 0.136 A/m; Power Drift = 0.585 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.101	0.115	0.107
Grid	Grid	Grid
0.122	0.129	0.129
Grid	Grid	Grid

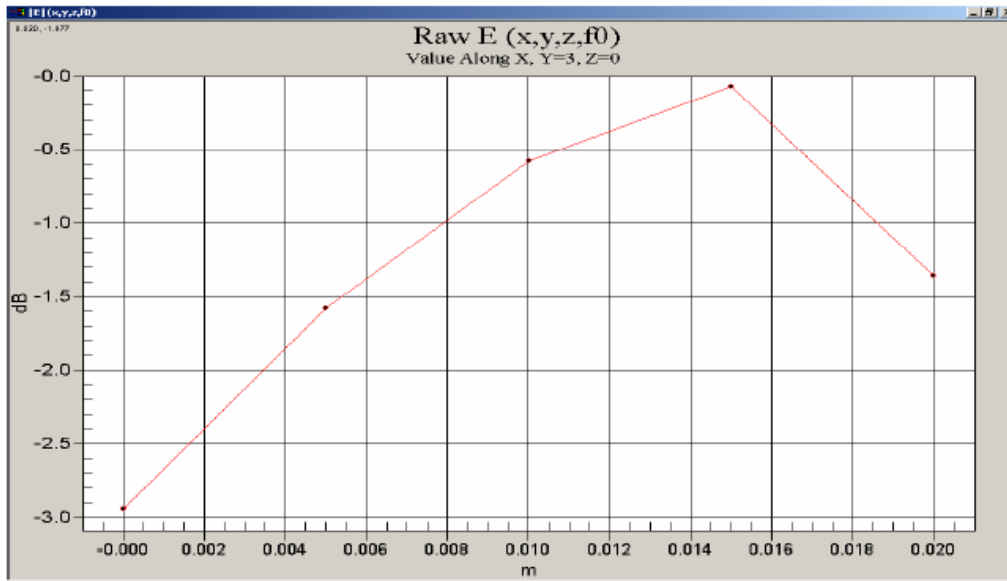
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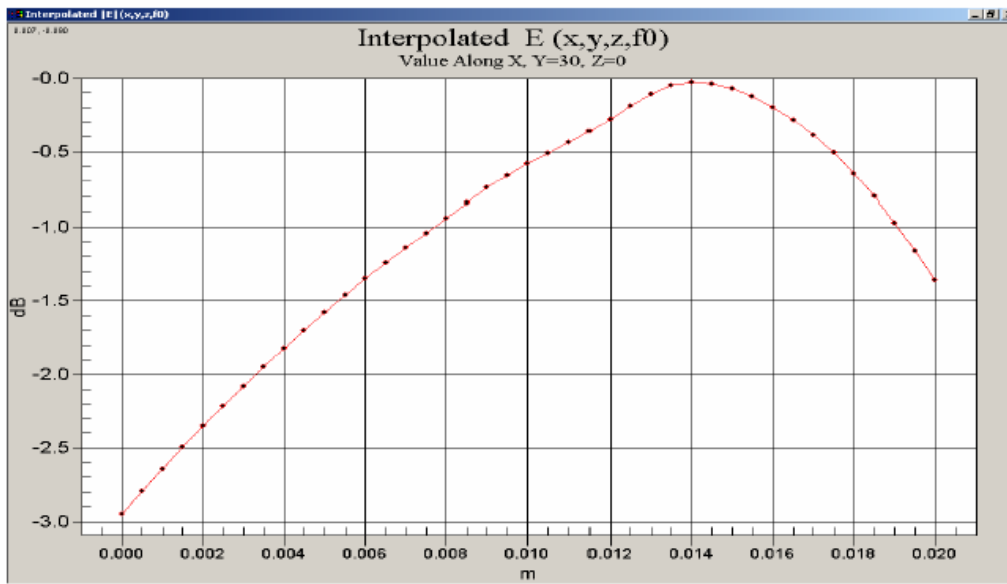
0 dB = 0.129A/m

Justification of Step Size and Interpolation

This section demonstrates that a 5mm step size with interpolation provides sufficient resolution for RF emissions measurements. The DASY 4 uses interpolation algorithms to derive 9 interpolated points between every measured point.

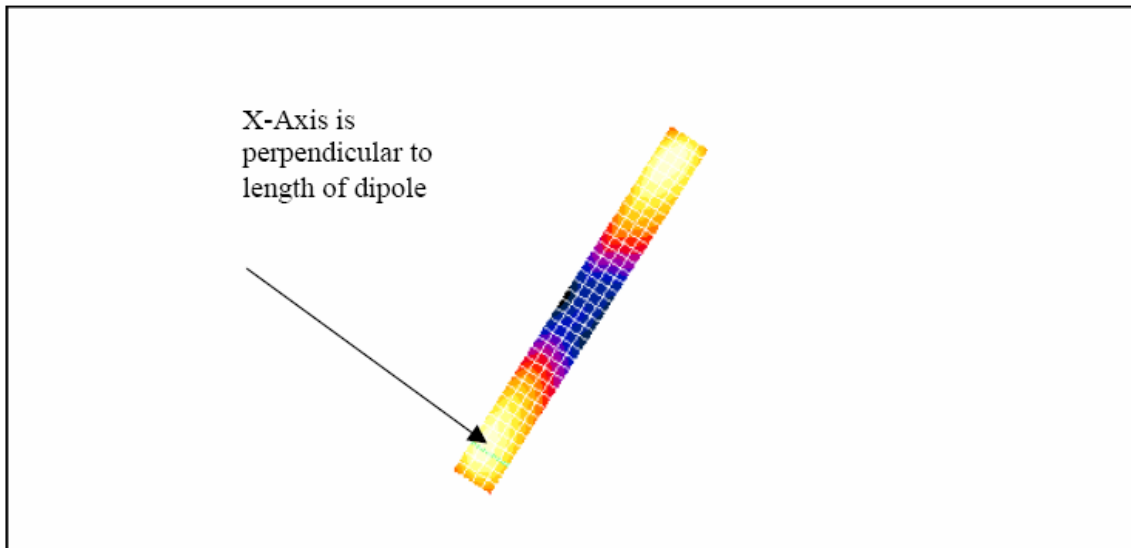


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



This figure shows the interpolated field strength perpendicular to the dipole. The interpolated points follow the raw points with no inconsistencies.

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The green line in this figure shows the axis along which the points lie.

Comparison of 5mm and 2mm step sizes

An additional set of measurements was taken: dipole validations were performed using 5mm and 2mm step sizes. The delta between the two readings is insignificant for both field types (< 0.4% for E and 0% for H), demonstrating that 5mm is sufficient. The plots follow.

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Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

Measurement grid: dx=5mm, dy=5mm
 Maximum value of Total (measured) = 134.8 V/m

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

Measurement grid: dx=5mm, dy=5mm
 Maximum value of Total field (slot averaged) = 131.0 V/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

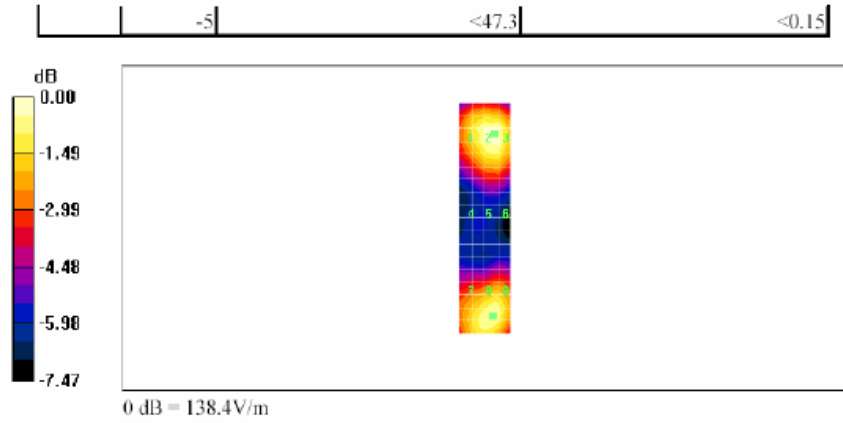
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\Dipole%20Validation%201880%20... 14/07/2005

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Date/Time: 14/07/2005 11:44:51 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004

- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn472; Calibrated: 03/01/2005

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

- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total (measured) = 138.0 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm

Maximum value of Total field (slot averaged) = 131.2 V/m

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

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.1	138.6	138.6	123.1	138.6	138.6
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
81.4	92.1	91.6	81.4	92.1	91.6
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
121.3	131.2	131.0	121.3	131.2	131.0

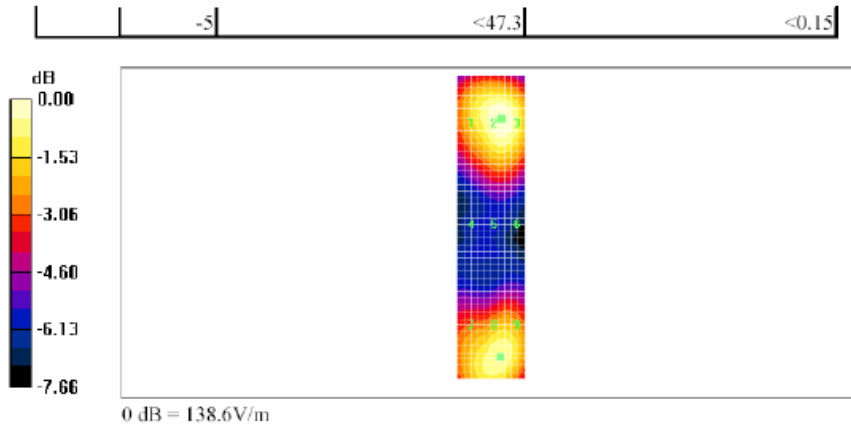
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

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

Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

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

Maximum value of Total (measured) = 0.406 A/m

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

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

Maximum value of Total field (slot averaged) = 0.406 A/m

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

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

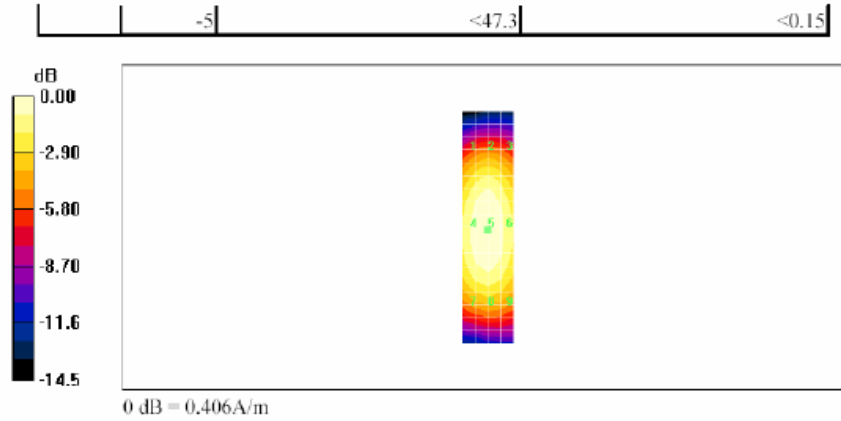
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm
 Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm
 Maximum value of Total field (slot averaged) = 0.406 A/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.347	0.361	0.348	0.347	0.361	0.348
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.394	0.406	0.391	0.394	0.406	0.391
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.367	0.380	0.365	0.367	0.380	0.365

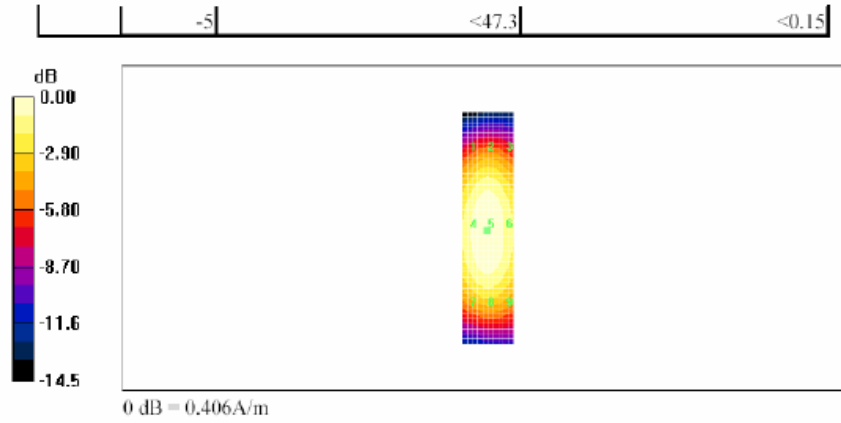
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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A.3 RF emission field plots

For plots where the probe was rotated, an arrow is drawn to showing location of the probe rotation after the exclusion block.

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Date/Time: 26/01/2007 12:34:18 PM

Test Laboratory: RTS

HAC_E_CDMA800_spkr_cent_mid_chan_RC1_SO2

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of Total (measured) = 92.1 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 93.5 V/m; Power Drift = 0.198 dB
Maximum value of Total (measured) = 91.0 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 91.2 V/m
Probe Modulation Factor = 1.00
Reference Value = 93.5 V/m; Power Drift = 0.198 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
75.9	88.4	88.3
Grid	Grid	Grid
80.5	91.2	90.5

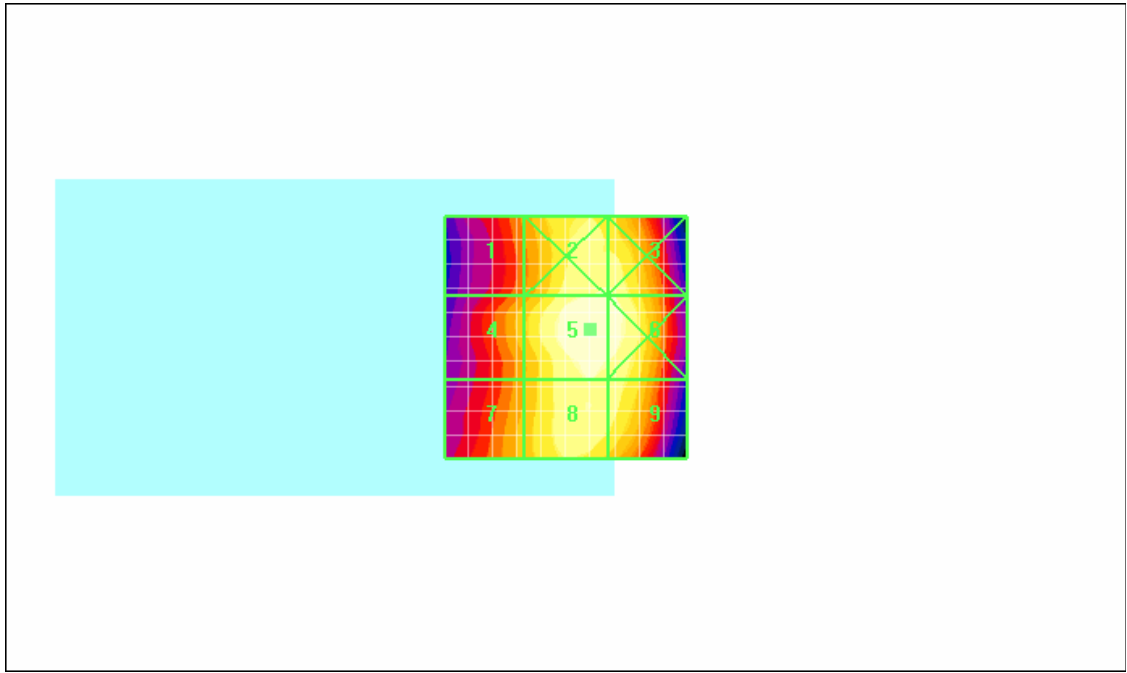
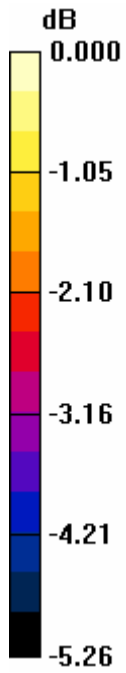
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Grid	Grid	Grid
79.5	87.7	87.0

Category	AWF	Limits for E-Field Emissions (V/m) > 960MHz	Limits for H-Field Emissions (A/m) > 960MHz
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.14 - 0.25
M4	0	<63.1	<0.19
	-5	<47.3	<0.14

Category	AWF (dB)	Limits for E-Field Emissions (V/m) < 960MHz	Limits for H-Field Emissions (A/m) < 960 MHz
M1	0	631 - 1122	1.91 - 3.39
	-5	473.2 - 841.4	1.43 - 2.54
M2	0	354.8 - 631	1.07 - 1.91
	-5	266.1 - 473.2	0.8 - 1.43
M3	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M4	0	<199.5	<0.6
	-5	<149.6	<0.45

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0 dB = 91.2V/m

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Date/Time: 26/01/2007 11:42:18 AM

Test Laboratory: RTS

HAC_E_CDMA800_sprk_cent_mid_chan_RC3_SO2

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 92.1 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 93.4 V/m; Power Drift = 0.255 dB

Maximum value of Total (measured) = 89.7 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 90.3 V/m

Probe Modulation Factor = 1.00

Reference Value = 93.4 V/m; Power Drift = 0.255 dB

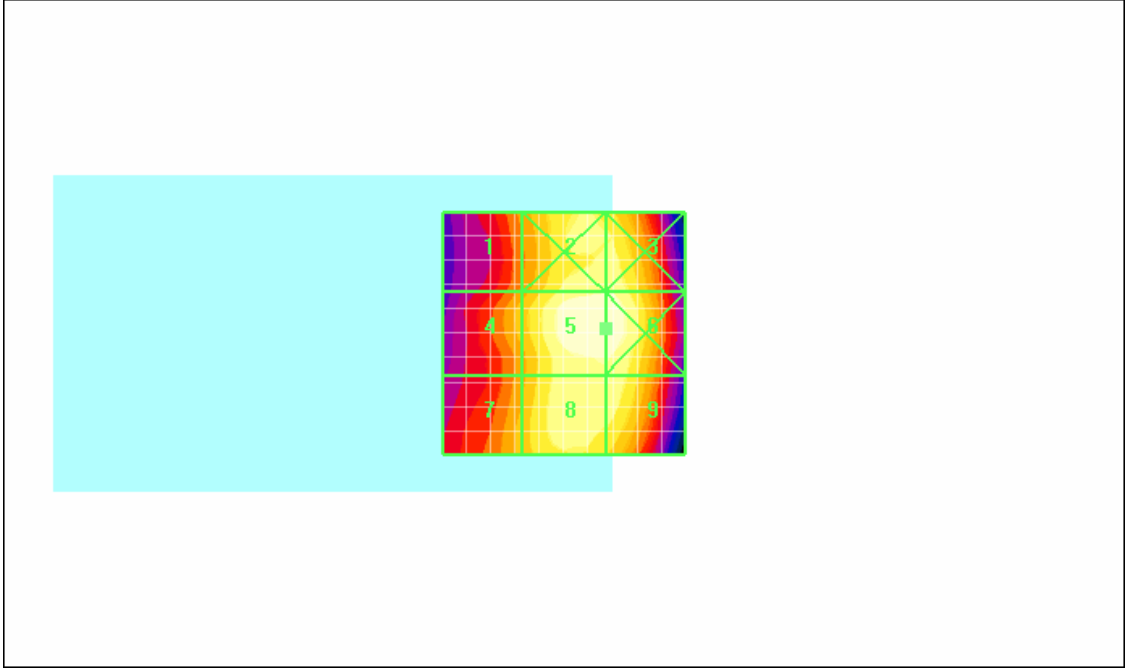
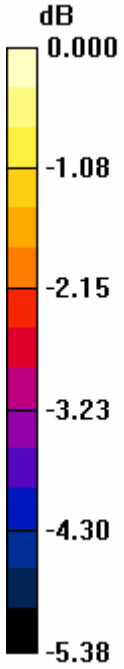
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
74.9	87.0	87.0
Grid	Grid	Grid
78.8	90.3	90.3
Grid	Grid	Grid

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78.3	86.8	86.8
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0 dB = 90.3V/m

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Date/Time: 26/01/2007 12:51:25 PM

Test Laboratory: RTS

HAC_E_CDMA800_spkr_cent_mid_chan_RC1_SO2_one_eighth

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 35.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 33.8 V/m; Power Drift = -0.057 dB

Maximum value of Total (measured) = 35.7 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 86.9 V/m

Probe Modulation Factor = 2.50

Reference Value = 33.8 V/m; Power Drift = -0.057 dB

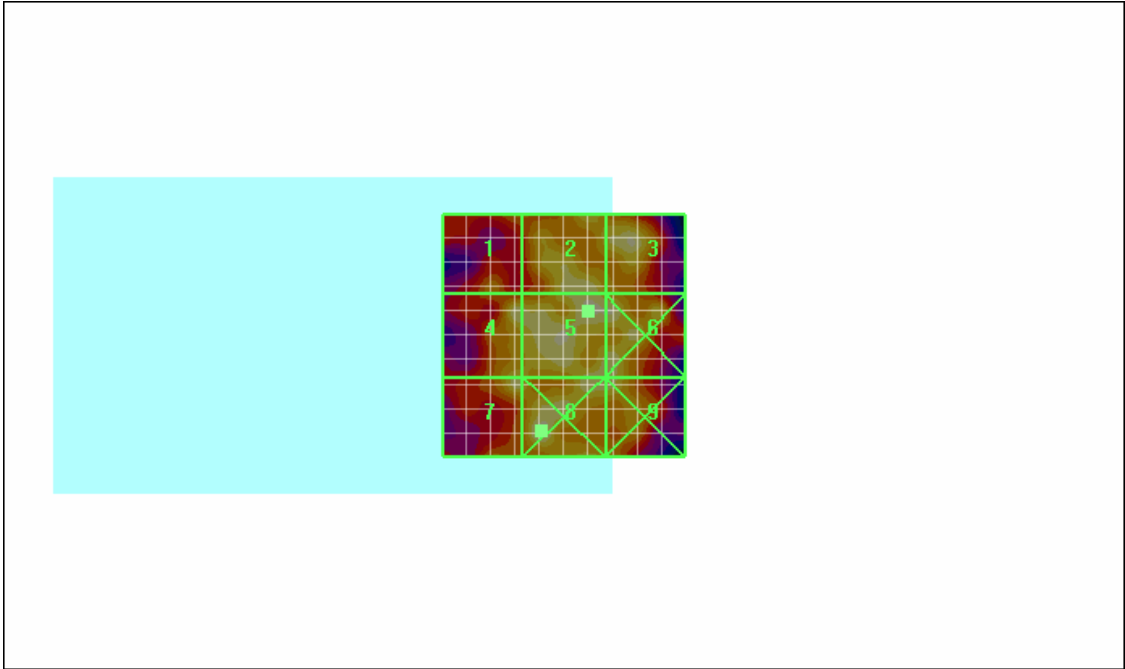
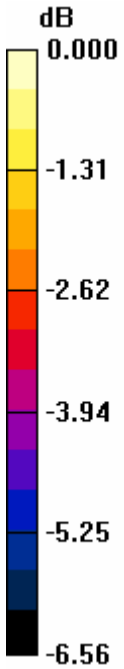
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
72.5	84.8	86.6
Grid	Grid	Grid
85.4	86.9	86.1
Grid	Grid	Grid

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84.0	89.9	84.0
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0 dB = 89.9V/m

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Date/Time: 26/01/2007 2:21:20 PM

Test Laboratory: RTS

HAC_E_CDMA800_sprk_cent_mid_chan_RC2_SO9_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 90.4 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 94.5 V/m; Power Drift = 0.045 dB

Maximum value of Total (measured) = 89.0 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 89.2 V/m

Probe Modulation Factor = 1.00

Reference Value = 94.5 V/m; Power Drift = 0.045 dB

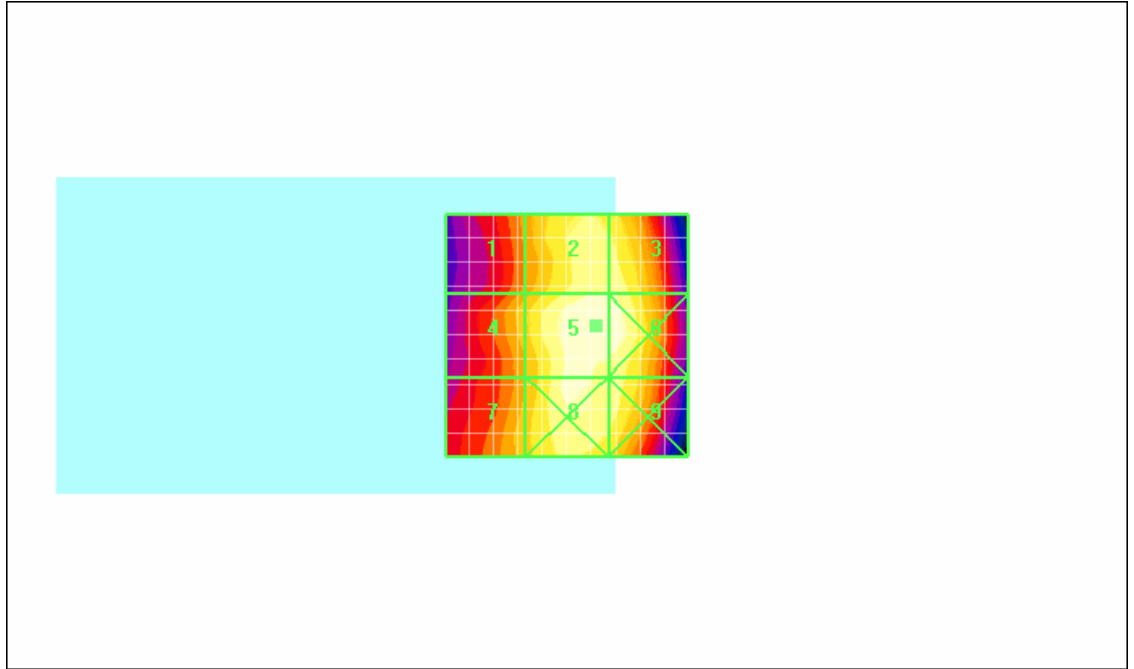
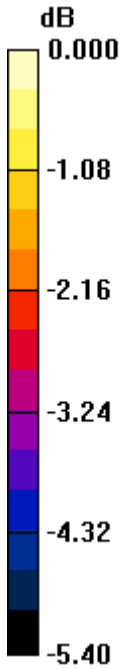
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
74.5	86.0	85.9
Grid	Grid	Grid
78.5	89.2	89.0
Grid	Grid	Grid

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78.1	87.5	84.9
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0 dB = 89.2V/m

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	Author Data Daoud Attayi	Dates Jan. 25 - Feb. 19, 2007	Report No RTS-0491-0703-04

Date/Time: 26/01/2007 2:35:55 PM

Test Laboratory: RTS

HAC_E_CDMA800_sprkr_cent_mid_chan_RC1_SO3_one_eighth

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of Total (measured) = 29.9 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 33.1 V/m; Power Drift = 0.059 dB
Maximum value of Total (measured) = 36.2 V/m

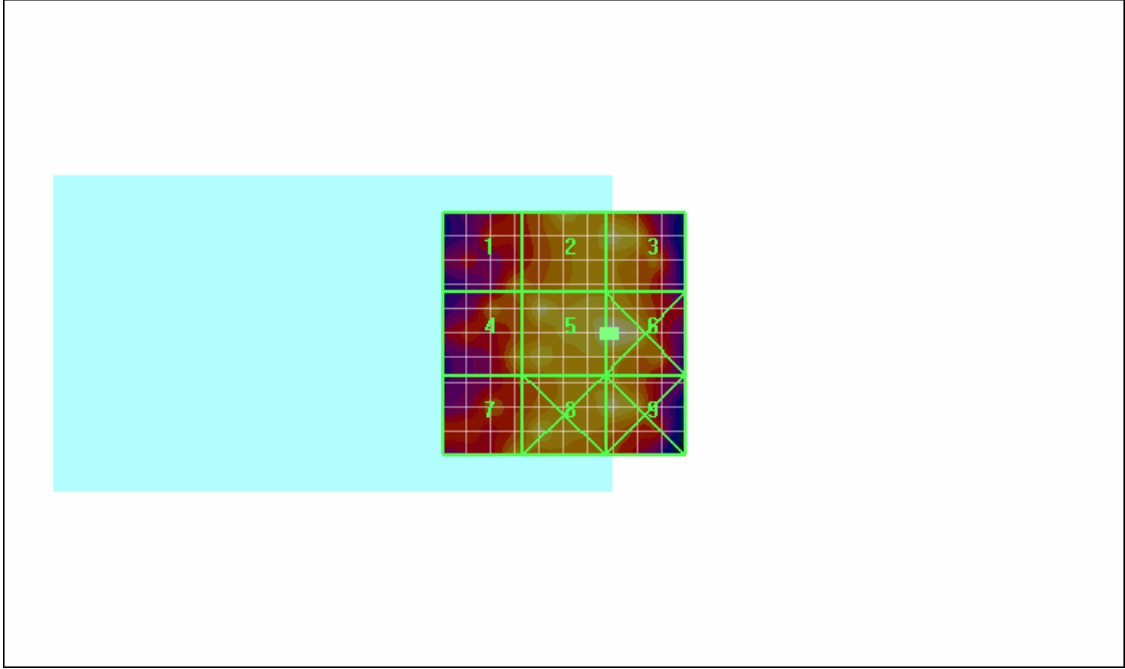
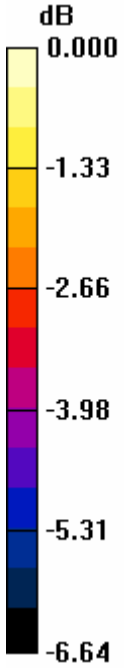
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 88.6 V/m
Probe Modulation Factor = 2.50
Reference Value = 33.1 V/m; Power Drift = 0.059 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
73.0	83.4	83.7
Grid	Grid	Grid
76.2	88.6	90.4
Grid	Grid	Grid

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76.7	82.5	84.0
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0 dB = 90.4V/m

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Date/Time: 26/01/2007 2:49:52 PM

Test Laboratory: RTS

HAC_E_CDMA800_spkr_cent_mid_chan_RC3_SO3_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:
dx=20mm, dy=20mm, dz=5mm
Maximum value of Total (measured) = 93.1 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 94.6 V/m; Power Drift = 0.136 dB
Maximum value of Total (measured) = 92.1 V/m

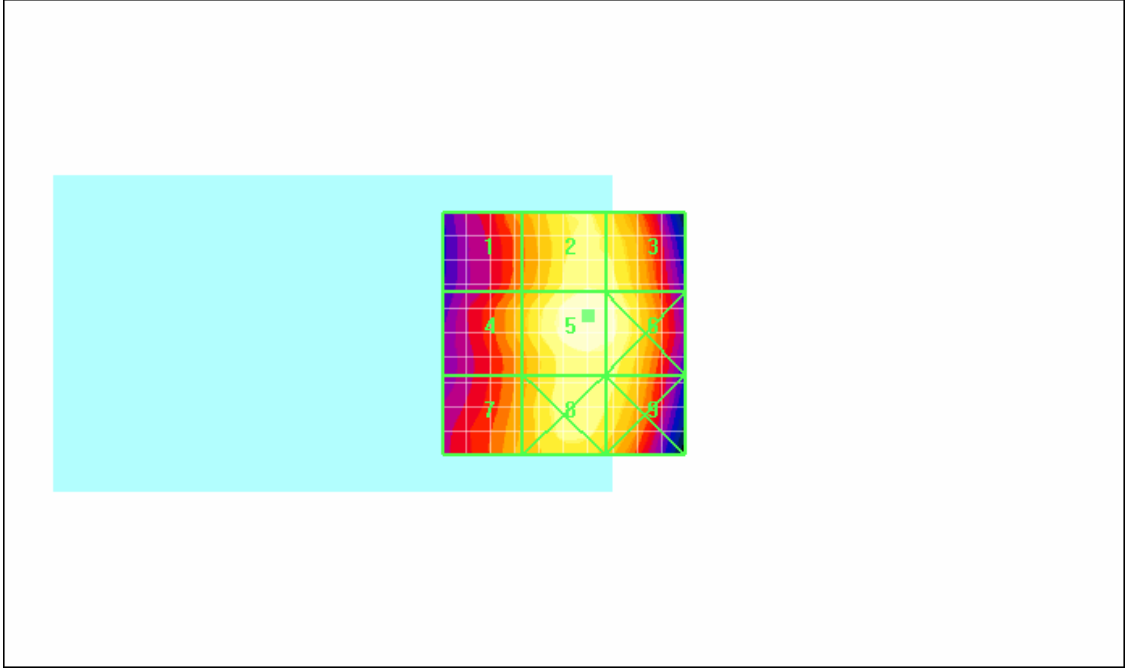
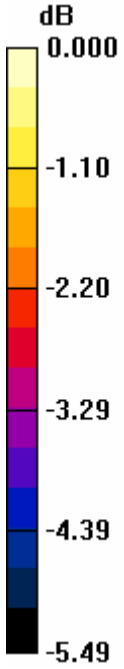
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 92.4 V/m
Probe Modulation Factor = 1.00
Reference Value = 94.6 V/m; Power Drift = 0.136 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
77.7	89.2	88.2
Grid	Grid	Grid
80.7	92.4	90.9
Grid	Grid	Grid

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79.5	87.7	86.8
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0 dB = 92.4V/m

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Date/Time: 26/01/2007 2:59:35 PM

Test Laboratory: RTS

HAC_E_CDMA800_T_coil_cent_mid_chan_RC3_SO3_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 93.1 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 95.7 V/m; Power Drift = 0.030 dB

Maximum value of Total (measured) = 93.2 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 93.5 V/m

Probe Modulation Factor = 1.00

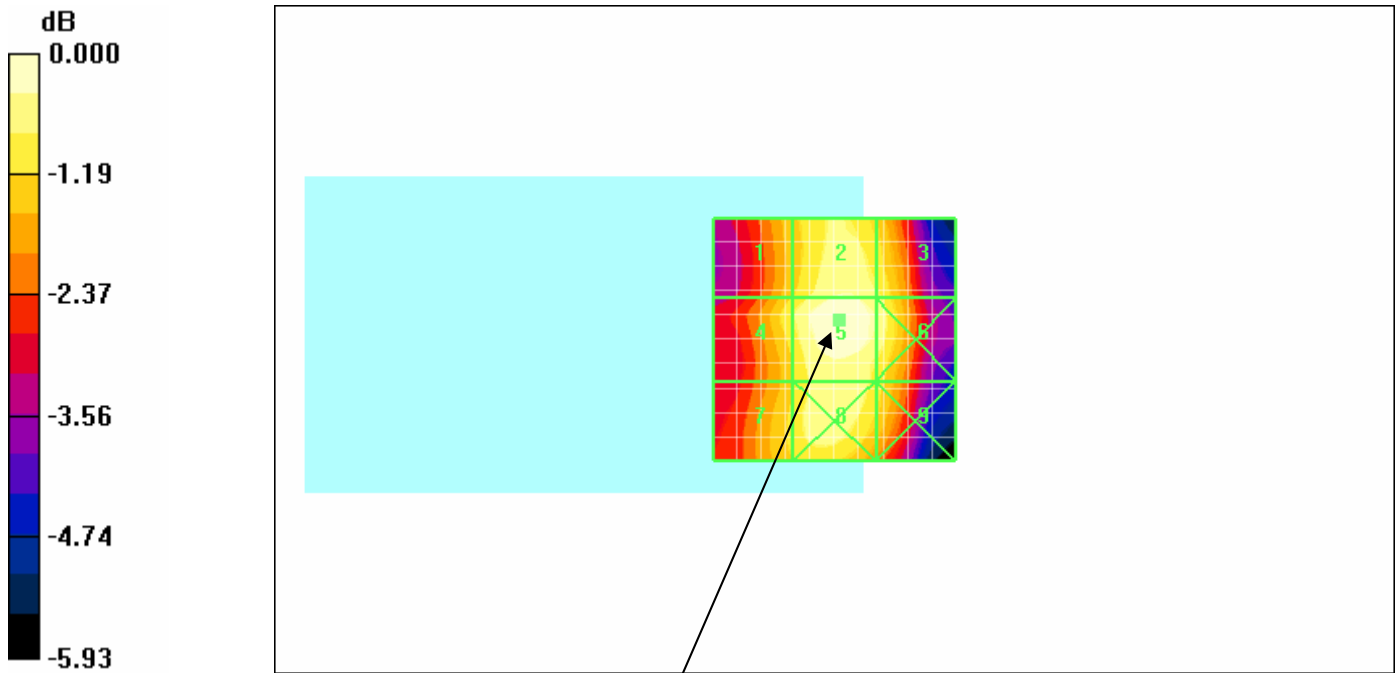
Reference Value = 95.7 V/m; Power Drift = 0.030 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
82.3	90.2	87.2
Grid	Grid	Grid
85.9	93.5	89.3
Grid	Grid	Grid

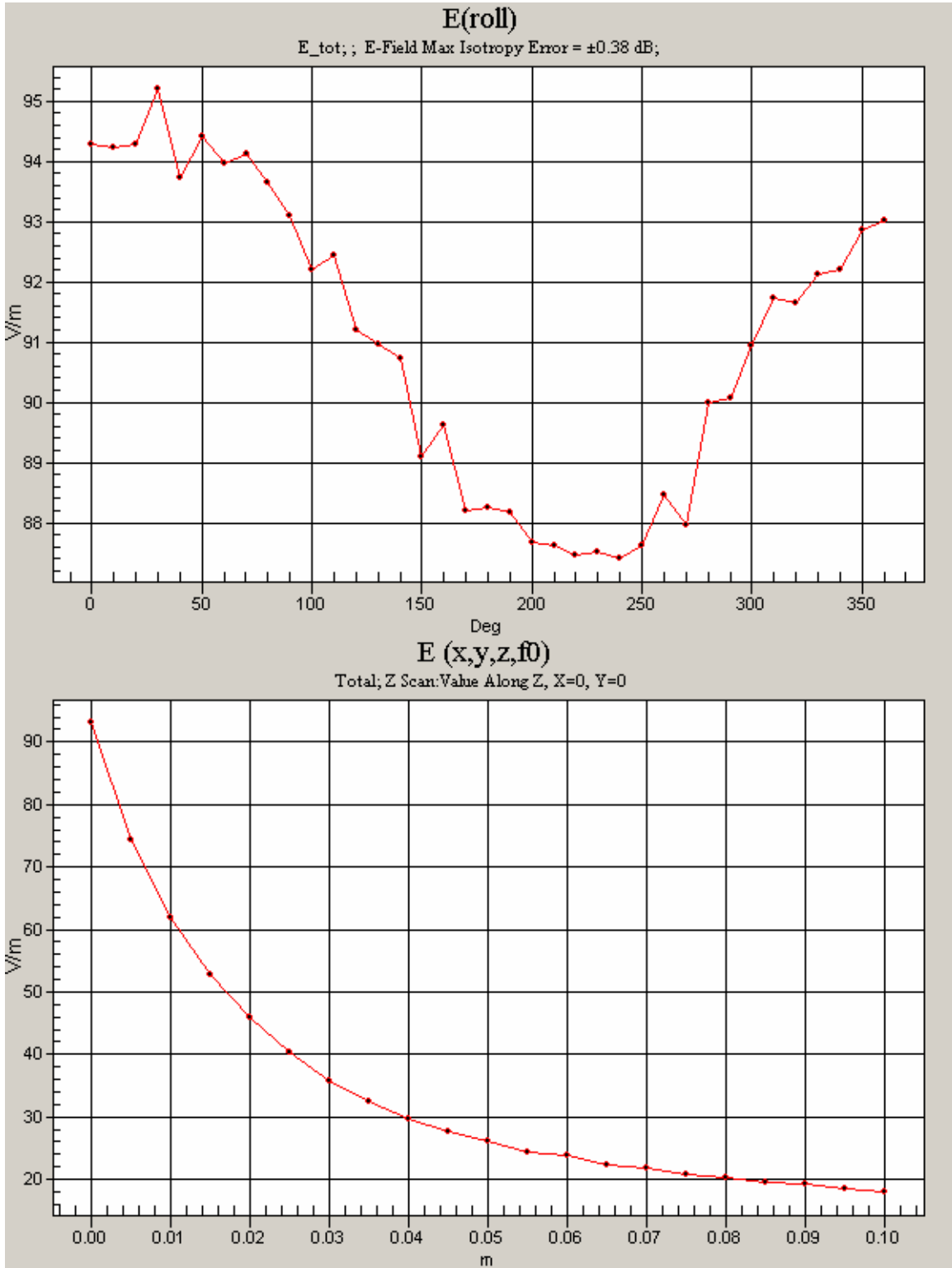
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0 dB = 93.5V/m

Location of probe rotation after applying exclusion blocks

$$\begin{aligned}
E(\text{delta}) &= (E \text{ max} - E \text{ at zero degree}) * \text{PMF} \\
&= (95.3 - 94.3) * 1.00 \\
&= 1.0 * 1.00 \\
&= 1.0 \text{ V/m}
\end{aligned}$$



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Date/Time: 26/01/2007 3:11:48 PM

Test Laboratory: RTS

HAC_E_CDMA1900_spkr_cent_low_chan_RC1_SO2_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 56.7 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 40.0 V/m; Power Drift = -0.122 dB

Maximum value of Total (measured) = 62.7 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 62.2 V/m

Probe Modulation Factor = 1.09

Reference Value = 40.0 V/m; Power Drift = -0.122 dB

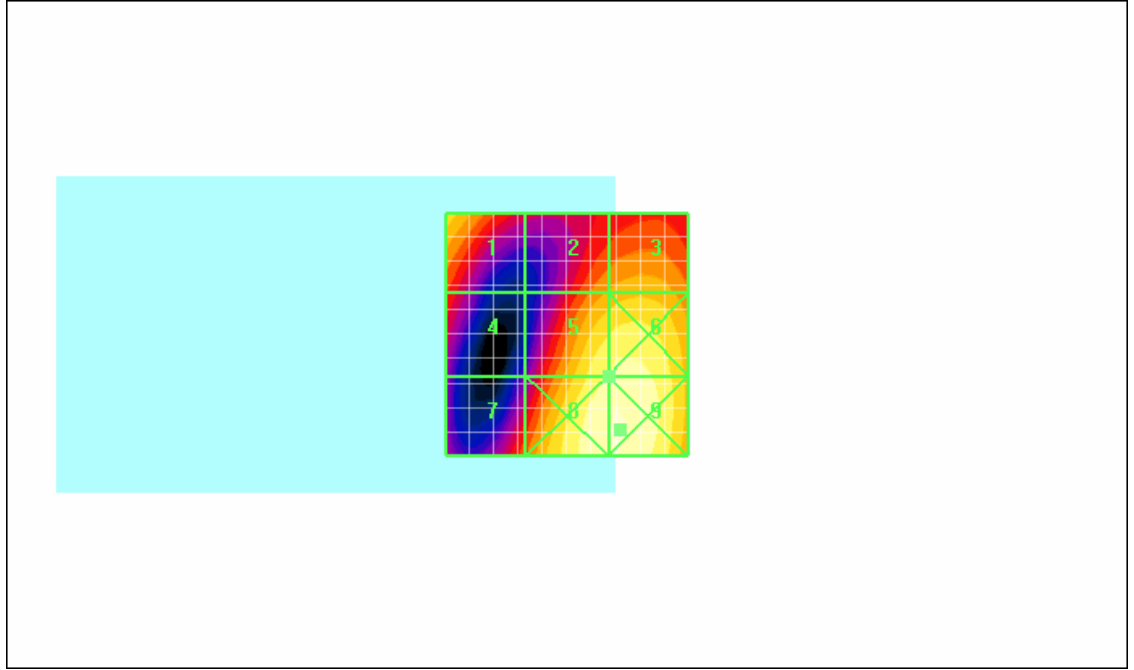
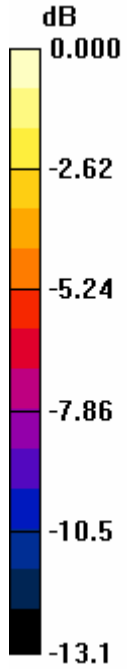
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
54.5	46.3	49.5
Grid	Grid	Grid

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Grid	Grid	Grid
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0 dB = 68.4V/m

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Date/Time: 19/02/2007 2:35:54 PM

Test Laboratory: RTS

HAC_E_CDMA1900_rev03_spkr_cent_low_chan_RC3_SO3_FR_02_19_07

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:
dx=20mm, dy=20mm, dz=5mm
Maximum value of Total (measured) = 54.8 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 38.3 V/m; Power Drift = -0.182 dB
Maximum value of Total (measured) = 62.5 V/m

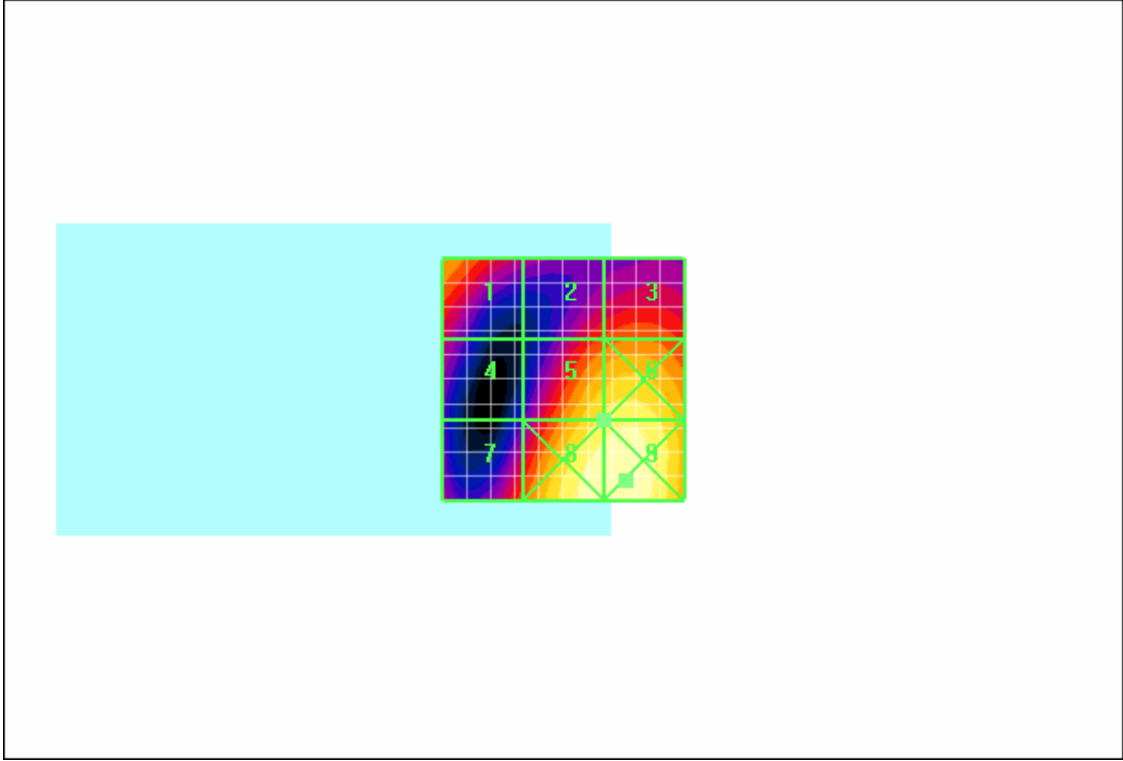
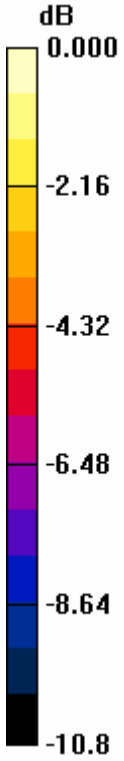
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 60.3 V/m
Probe Modulation Factor = 1.09
Reference Value = 38.3 V/m; Power Drift = -0.182 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
50.4	42.9	45.7
Grid	Grid	Grid
37.0	60.3	62.7
Grid	Grid	Grid

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44.2	67.9	68.7
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0 dB = 68.7V/m

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Date/Time: 19/02/2007 2:46:37 PM

Test Laboratory: RTS

HAC_E_CDMA1900_rev03_T_Coil_cent_low_chan_RC3_SO3_FR_02_19_07

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:
dx=20mm, dy=20mm, dz=5mm
Maximum value of Total (measured) = 57.7 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 37.9 V/m; Power Drift = -0.141 dB
Maximum value of Total (measured) = 61.9 V/m

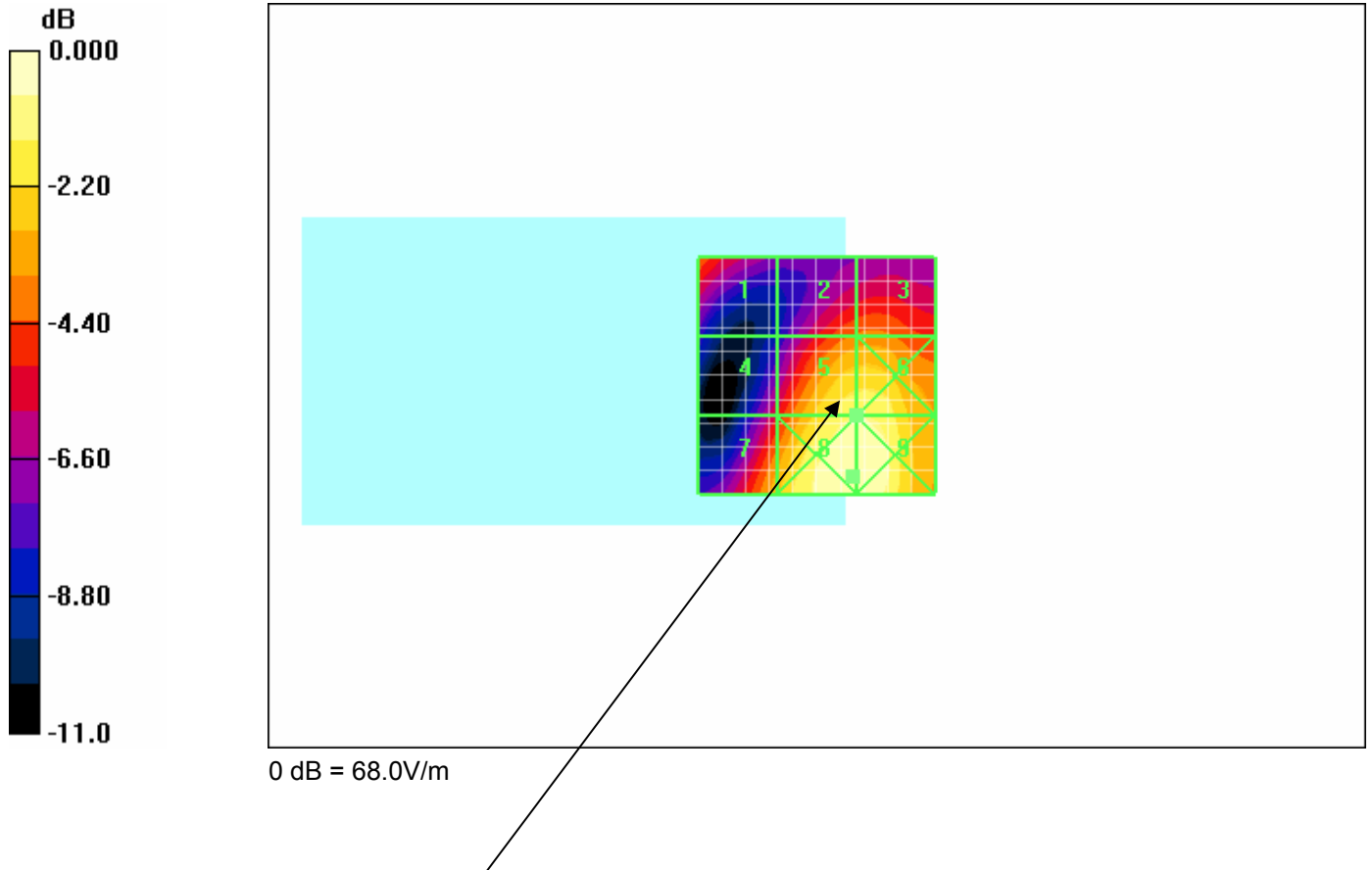
E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 62.4 V/m
Probe Modulation Factor = 1.09
Reference Value = 37.9 V/m; Power Drift = -0.141 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
44.4	45.5	46.3
Grid	Grid	Grid
38.3	62.4	62.5
Grid	Grid	Grid

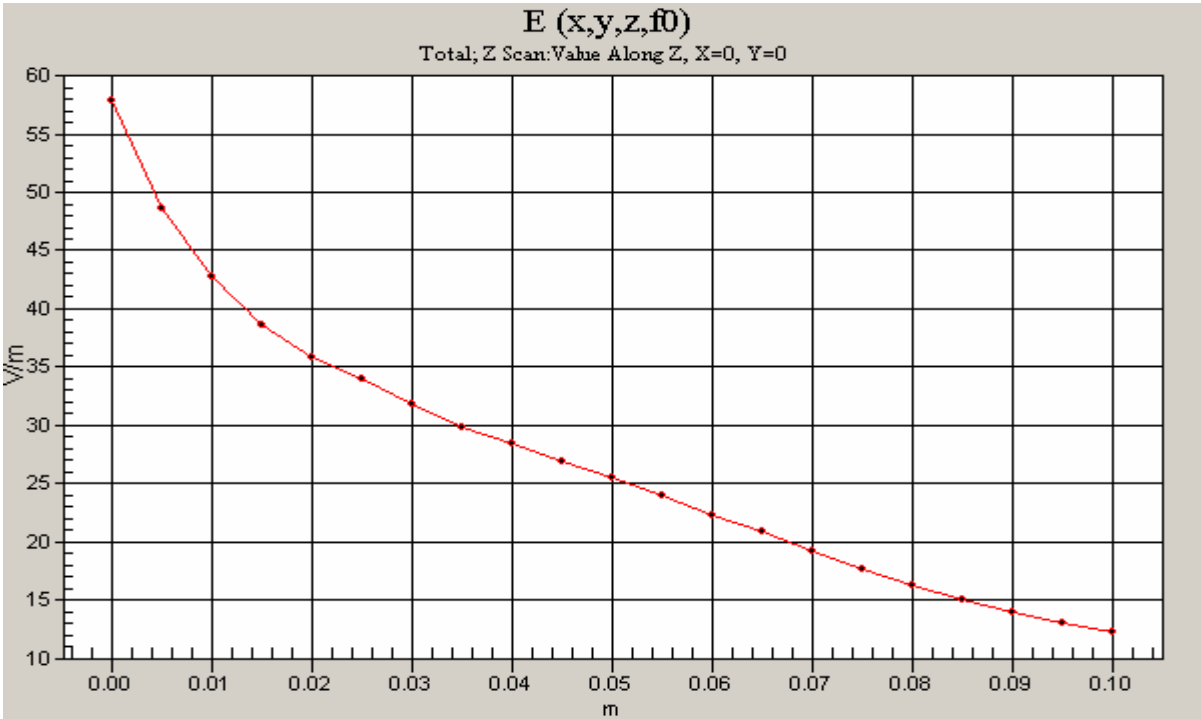
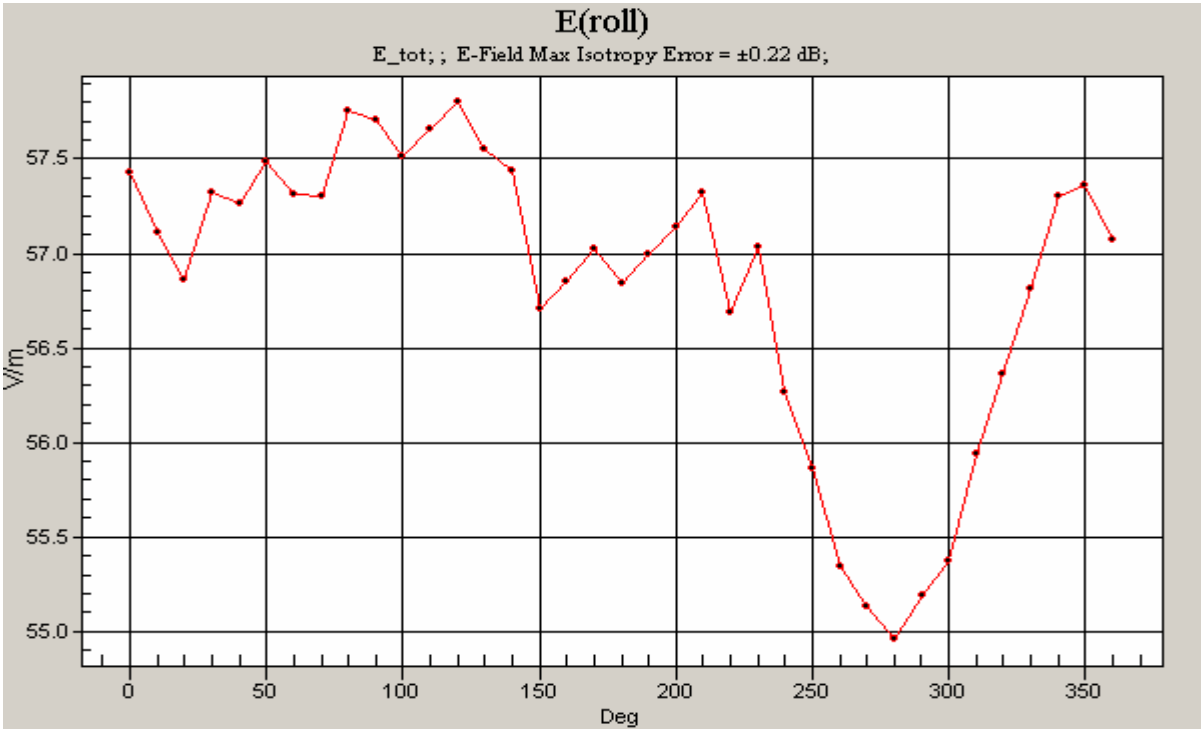
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51.9	68.0	68.0
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Location of probe rotation after applying exclusion blocks

$$\begin{aligned}
E(\text{delta}) &= (E \text{ max} - E \text{ at zero degree}) * \text{PMF} \\
&= (57.8 - 57.4) * 1.09 \\
&= 0.4 * 1.09 \\
&= 0.44 \text{ V/m}
\end{aligned}$$



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Date/Time: 19/02/2007 2:56:05 PM

Test Laboratory: RTS

HAC_E_CDMA1900_rev03_spkr_cent_low_chan_RC1_SO2_FR_02_19_07

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 27/04/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 18/01/2007
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

E Scan - ER probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid:

dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 55.4 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 37.3 V/m; Power Drift = 0.153 dB

Maximum value of Total (measured) = 60.3 V/m

E Scan - ER probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 59.6 V/m

Probe Modulation Factor = 1.09

Reference Value = 37.3 V/m; Power Drift = 0.153 dB

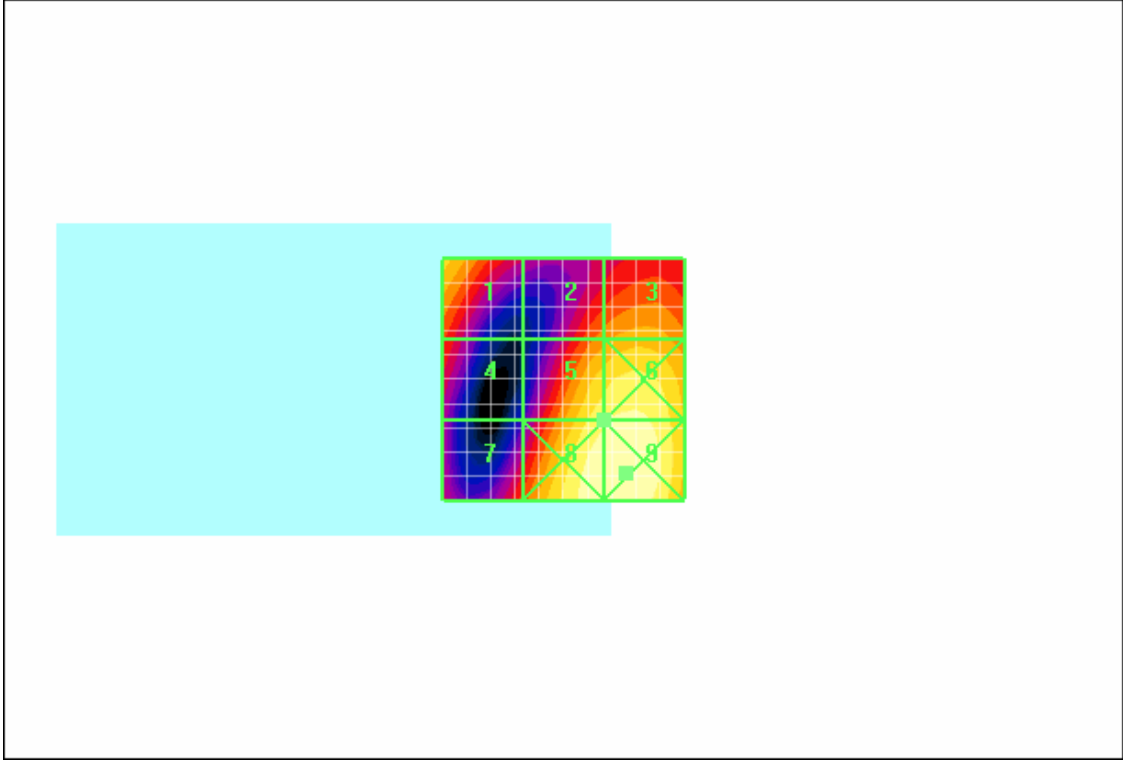
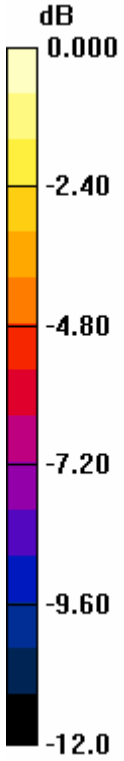
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

Grid	Grid	Grid
52.7	44.5	48.4
Grid	Grid	Grid
39.1	59.6	62.4
Grid	Grid	Grid

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39.7	65.3	66.4
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0 dB = 66.4V/m

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Date/Time: 26/01/2007 5:13:36 PM

Test Laboratory: RTS

HAC_H_CDMA800_sprk_cent_high_chan_RC3_SO3_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.034 A/m; Power Drift = 0.111 dB

Maximum value of Total (measured) = 0.100 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.059 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.083 A/m

Probe Modulation Factor = 1.02

Reference Value = 0.034 A/m; Power Drift = 0.111 dB

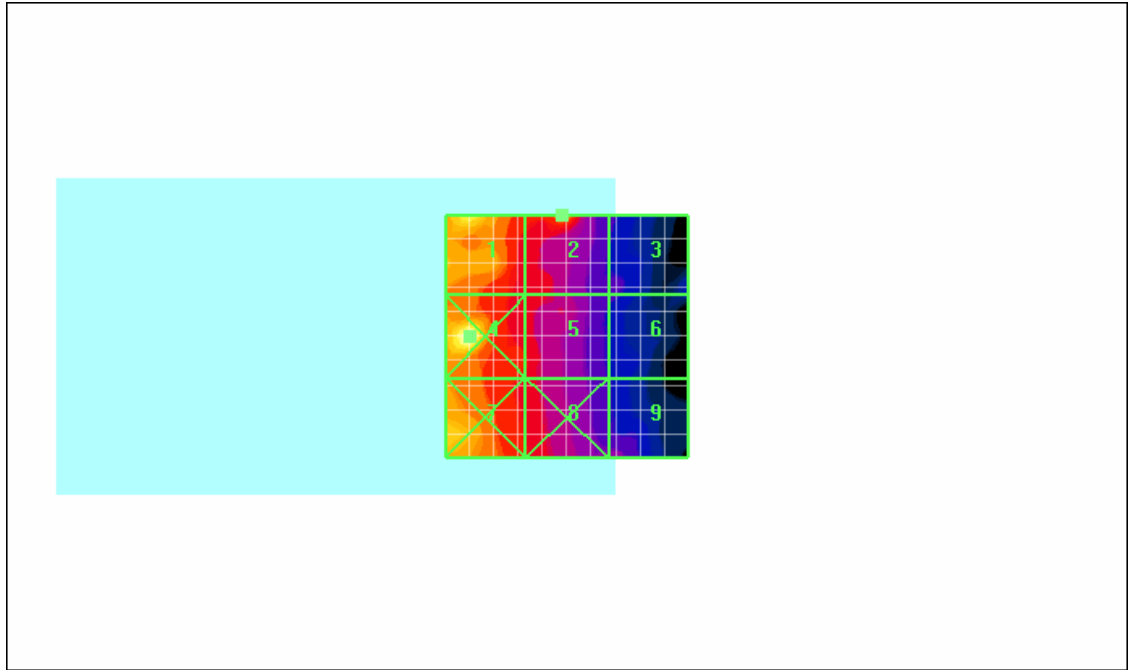
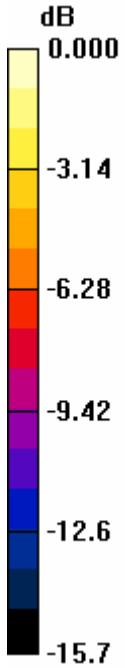
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.083	0.059	0.030
Grid	Grid	Grid
0.102	0.045	0.029

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Grid	Grid	Grid
0.069	0.045	0.033



0 dB = 0.102A/m

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Date/Time: 29/01/2007 10:01:29 AM

Test Laboratory: RTS

HAC_H_CDMA800_sprk_cent_high_chan_RC1_SO2_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.094 A/m; Power Drift = 0.179 dB

Maximum value of Total (measured) = 0.170 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.171 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.169 A/m

Probe Modulation Factor = 1.02

Reference Value = 0.094 A/m; Power Drift = 0.179 dB

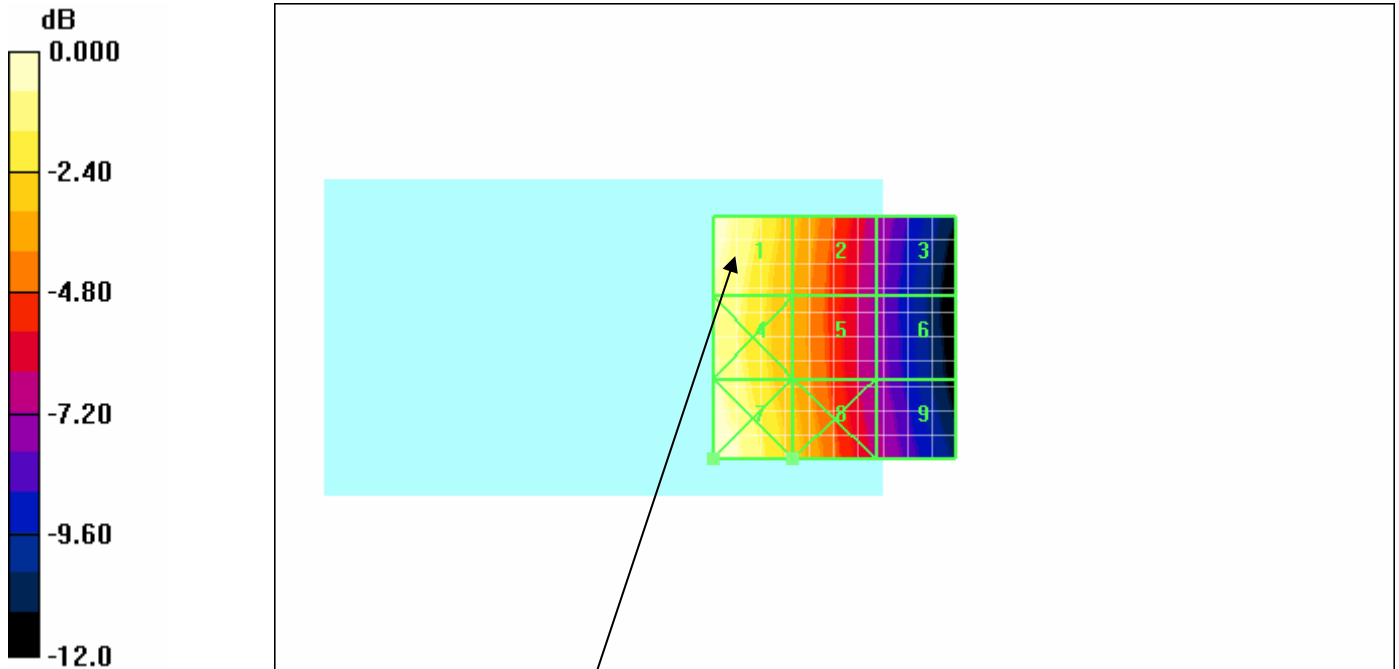
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.169	0.125	0.078
Grid	Grid	Grid
0.164	0.121	0.075
Grid	Grid	Grid

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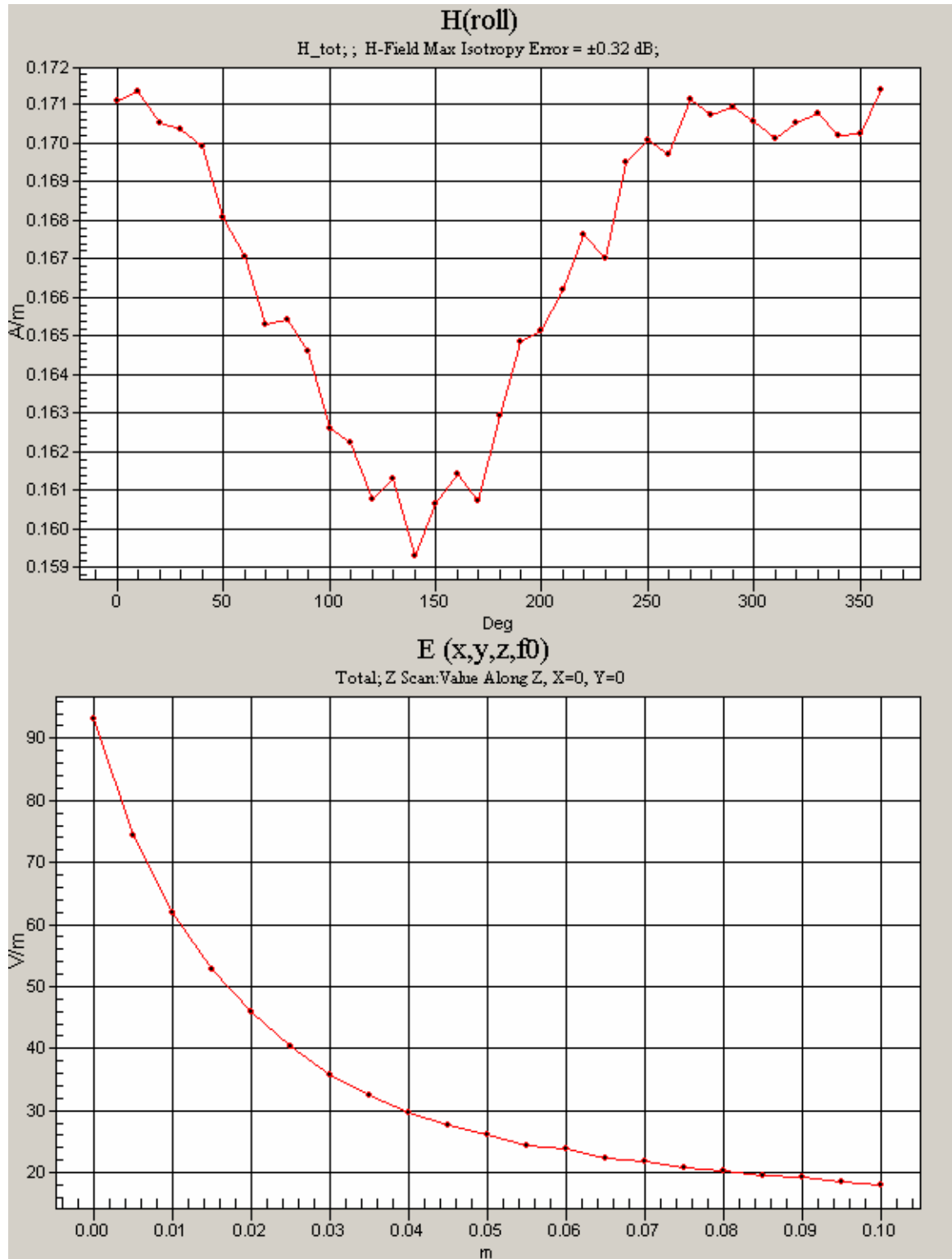
0.173	0.128	0.081
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0 dB = 0.173A/m

Location of the probe rotation after applying exclusion blocks

$$\begin{aligned}
H(\Delta) &= (H_{\text{max}} - H_{\text{at zero degrees}}) * PMF \\
&= (0.1715 - 0.171) * 1.02 \\
&= 0.005 * 1.02 \\
&= 0.006
\end{aligned}$$



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Date/Time: 29/01/2007 10:09:48 AM

Test Laboratory: RTS

HAC_H_CDMA800_spkr_cent_high_chan_RC1_SO3_eighth

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.035 A/m; Power Drift = 0.224 dB

Maximum value of Total (measured) = 0.067 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.069 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.162 A/m

Probe Modulation Factor = 2.43

Reference Value = 0.035 A/m; Power Drift = 0.224 dB

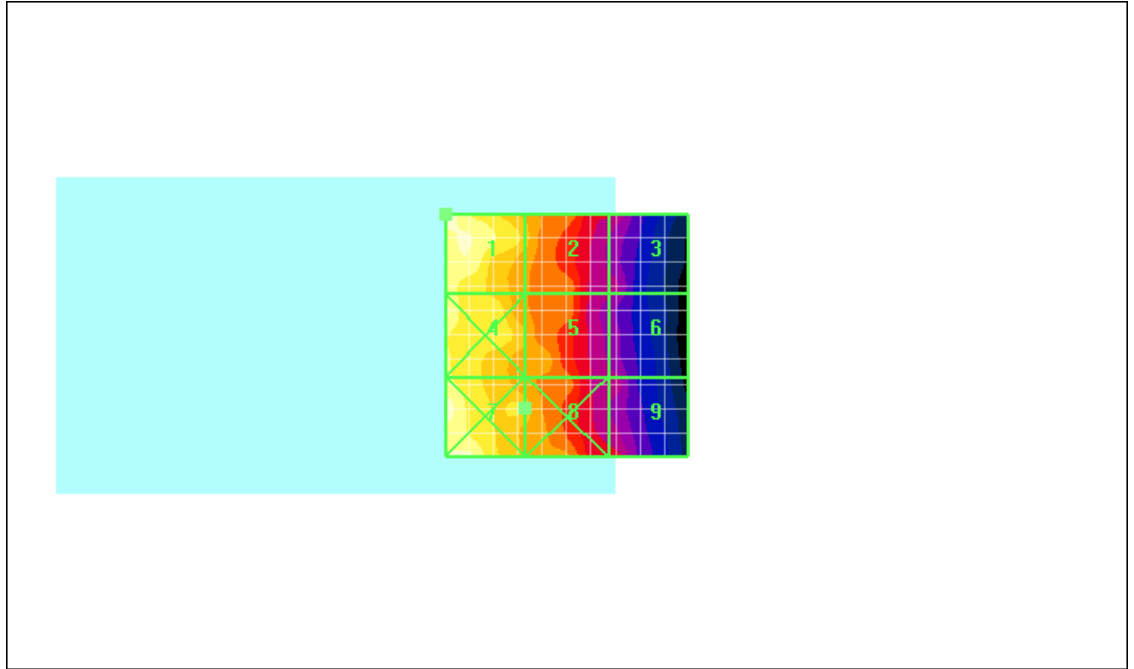
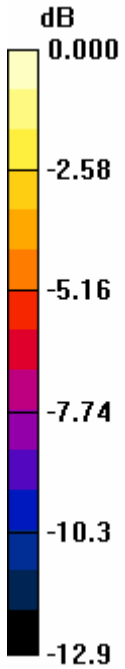
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.162	0.114	0.076
Grid	Grid	Grid
0.152	0.111	0.071
Grid	Grid	Grid

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0.160	0.116	0.080
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0 dB = 0.162A/m

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Date/Time: 29/01/2007 10:19:34 AM

Test Laboratory: RTS

HAC_H_CDMA800_T_coil_cent_high_chan_RC1_SO2_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 800; Frequency: 848.52 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.097 A/m; Power Drift = -0.105 dB

Maximum value of Total (measured) = 0.159 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.160 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.158 A/m

Probe Modulation Factor = 1.02

Reference Value = 0.097 A/m; Power Drift = -0.105 dB

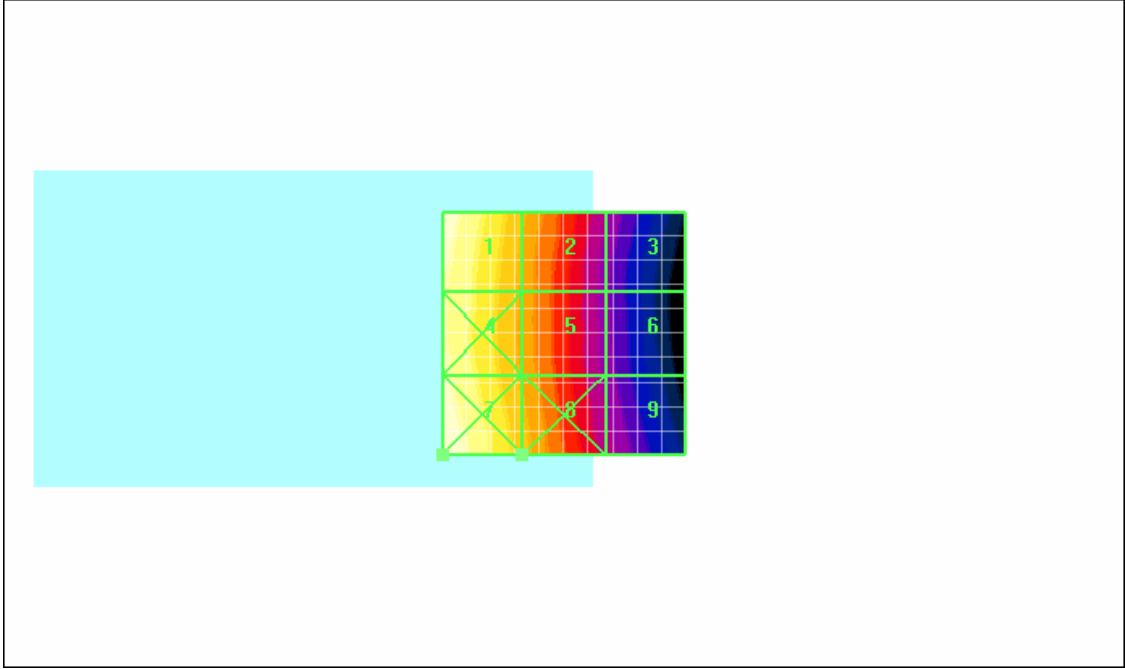
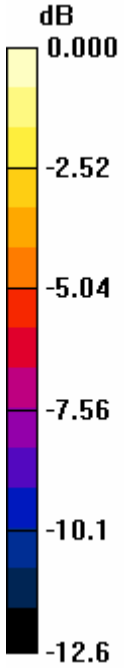
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.158	0.113	0.069
Grid	Grid	Grid
0.153	0.109	0.067
Grid	Grid	Grid

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0.162	0.116	0.073
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0 dB = 0.162A/m

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Date/Time: 29/01/2007 10:32:18 AM

Test Laboratory: RTS

HAC_H_CDMA1900_spkr_cent_low_chan_RC1_SO2_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.142 A/m; Power Drift = -0.064 dB

Maximum value of Total (measured) = 0.177 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.178 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.161 A/m

Probe Modulation Factor = 1.08

Reference Value = 0.142 A/m; Power Drift = -0.064 dB

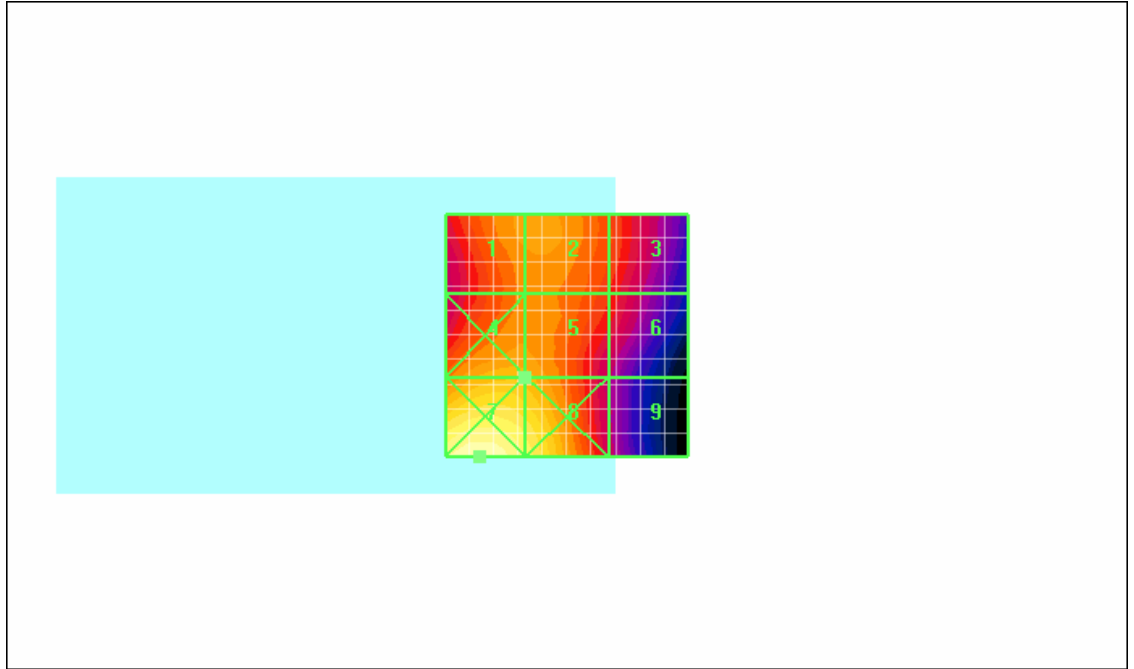
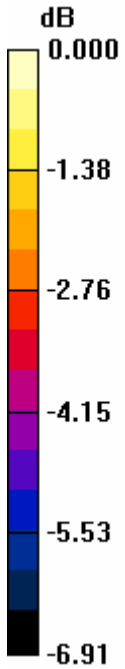
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.157	0.158	0.145
Grid	Grid	Grid
0.163	0.161	0.140
Grid	Grid	Grid

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0.192	0.181	0.130
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0 dB = 0.192A/m

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Date/Time: 29/01/2007 11:00:57 AM

Test Laboratory: RTS

HAC_H_CDMA1900_sprk_cent_low_chan_RC1_SO3_eighth

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1908.5 MHz; Duty Cycle: 1:8

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.050 A/m; Power Drift = 1.22 dB

Maximum value of Total (measured) = 0.064 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement

grid: dx=20mm, dy=20mm, dz=5mm

Maximum value of Total (measured) = 0.058 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 2.67

Reference Value = 0.050 A/m; Power Drift = 1.22 dB

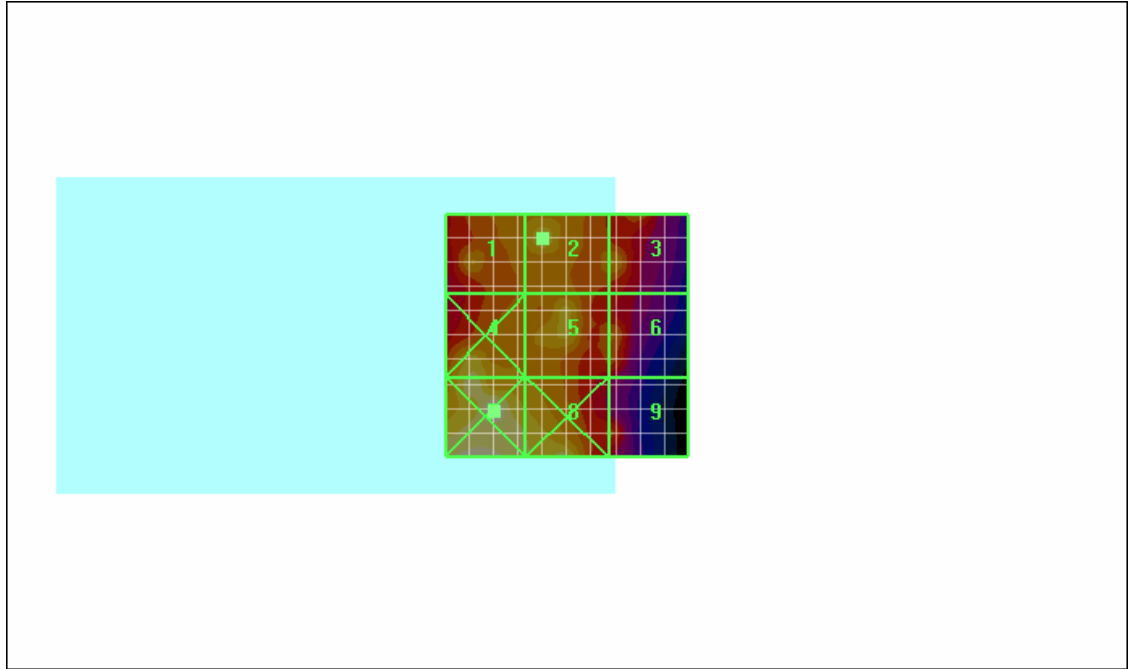
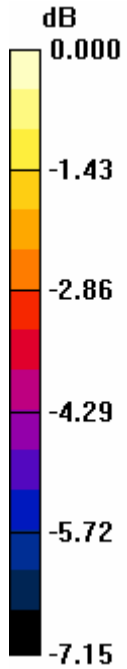
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.139	0.154	0.139
Grid	Grid	Grid
0.157	0.149	0.132
Grid	Grid	Grid

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0.172	0.160	0.125
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0 dB = 0.172A/m

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Date/Time: 29/01/2007 11:12:25 AM

Test Laboratory: RTS

HAC_H_CDMA1900_T_coil_cent_low_chan_RC1_SO2_FR

DUT: BlackBerry Wireless Handheld; Type: Sample ; Serial: Not Specified

Communication System: CDMA 1900; Frequency: 1851.25 MHz; Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³

Phantom section: E Device Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 16/03/2006
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 25/04/2006
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 53; Postprocessing SW: SEMCAD, V1.8 Build 172

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Reference Value = 0.143 A/m; Power Drift = -0.050 dB

Maximum value of Total (measured) = 0.180 A/m

H Scan - H3DV5 probe tip 10mm above Device Reference/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm

H Scan - H3DV5 probe tip 10mm above Device Reference/Hearing Aid Compatibility Test

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.158 A/m

Probe Modulation Factor = 1.08

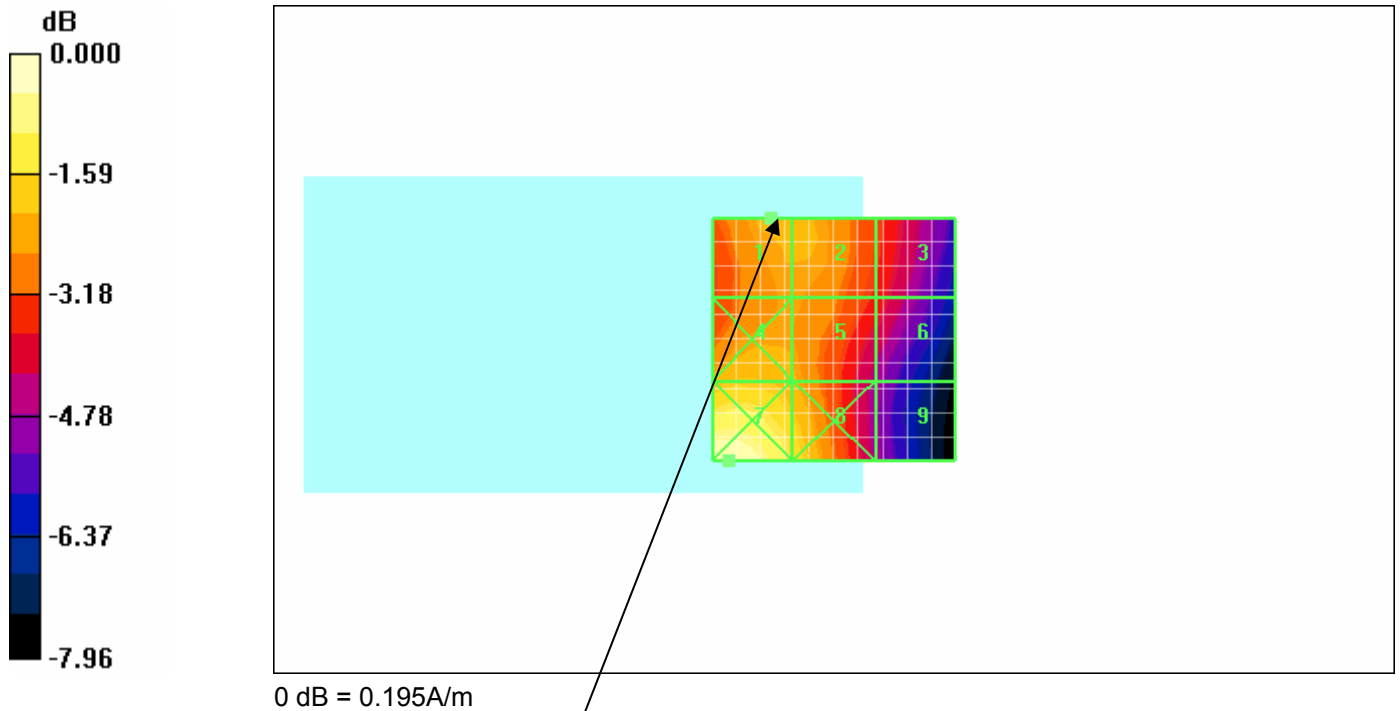
Reference Value = 0.143 A/m; Power Drift = -0.050 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid	Grid	Grid
0.158	0.158	0.139
Grid	Grid	Grid

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Location of the probe rotation after applying exclusion blocks

$$\begin{aligned}
H(\Delta) &= (H_{\max} - H_{\text{at zero degree}}) * PMF \\
&= (0.1815 - 0.18) * 1.08 \\
&= 0.0015 * 1.02 \\
&= 0.002
\end{aligned}$$

