

Applicant:	Kyocera
FCC ID:	V65C5155
Report #:	CT-C5156-20RFC-0712-R0

Exhibit 12 Appendix C: HAC RF Data Plot

CELL – BC0

CDMA 835 BC-0 Channel 1013

Date: 07/23/2012

Communication System: CDMA_Tri_BC0&10, Frequency: 824.7 MHz, Duty Cycle: 1:1
 Medium: Air, Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

DASY4 Configuration:

Probe: ER3DV6 - SN2282 Probe: H3DV6 - SN6123, ConvF(1, 1, 1), Calibrated: 2/17/2012

Sensor-Surface: (Fix Surface),

Electronics: DAE4 Sn675, Calibrated: 5/23/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 $\square\square\square$ 1 deg C, Liquid T = 22.0 $\square\square\square$ 1 deg C

CELL_1013/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 70.9 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 92.6 V/m; Power Drift = 0.058 dB

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

Peak E-field in V/m

Grid 1 61.9 M4	Grid 2 67.9 M4	Grid 3 64.8 M4
Grid 4 65.7 M4	Grid 5 70.9 M4	Grid 6 67.2 M4
Grid 7 65.4 M4	Grid 8 69.9 M4	Grid 9 65.9 M4

CELL_1013/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.109 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.089 A/m; Power Drift = 0.017 dB

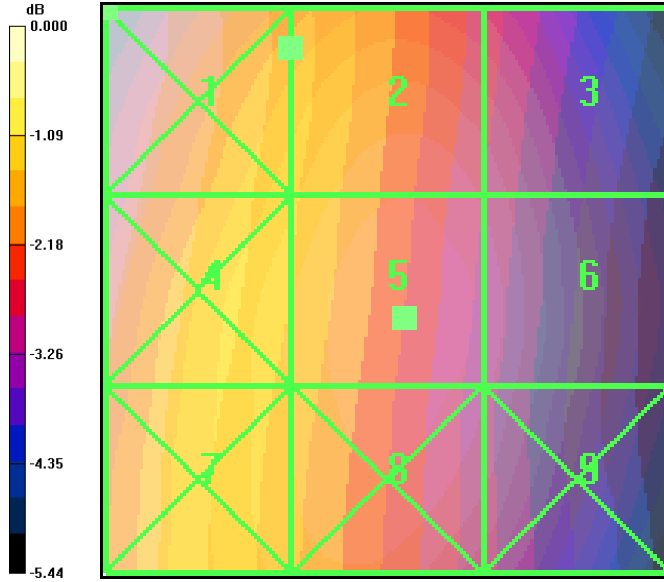
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.147 M4	Grid 2 0.109 M4	Grid 3 0.071 M4
Grid 4 0.142 M4	Grid 5 0.106 M4	Grid 6 0.068 M4
Grid 7 0.135 M4	Grid 8 0.101 M4	Grid 9 0.064 M4



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0 dB = 70.9V/m

CDMA 835 BC-0 Channel 384

Date: 07/23/2012

Communication System: CDMA_Tri_BC0&10, Frequency: 836.52 MHz, Duty Cycle: 1:1
 Medium: Air, Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

DASY4 Configuration:

Probe: ER3DV6 - SN2282 Probe: H3DV6 - SN6123, ConvF(1, 1, 1), Calibrated: 2/17/2012
 Sensor-Surface: (Fix Surface),
 Electronics: DAE4 Sn675, Calibrated: 5/23/2012
 Measurement SW: DASY4, V4.7 Build 80
 Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

CELL_384/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 69.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 91.1 V/m; Power Drift = 0.030 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
57.5 M4	65.5 M4	63.2 M4
Grid 4	Grid 5	Grid 6
62.9 M4	69.0 M4	67.8 M4
Grid 7	Grid 8	Grid 9
64.7 M4	69.0 M4	68.1 M4

CELL_384/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.101 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.084 A/m; Power Drift = 0.142 dB

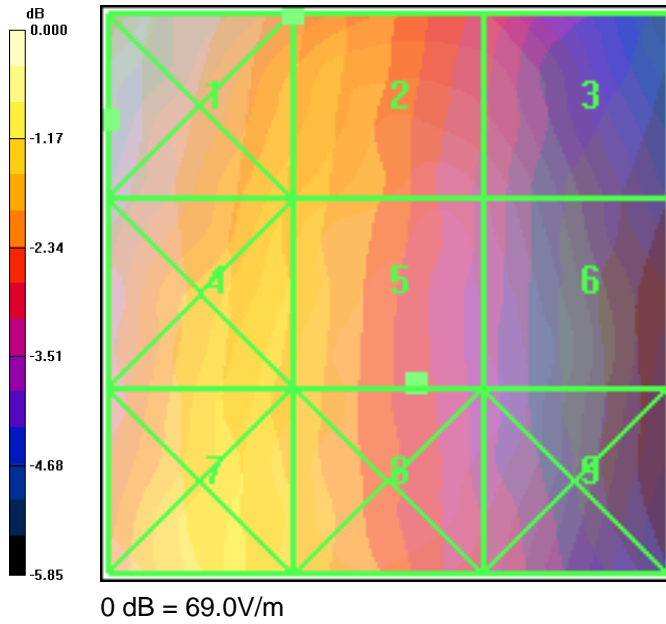
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.140 M4	0.101 M4	0.068 M4
Grid 4	Grid 5	Grid 6
0.134 M4	0.098 M4	0.062 M4
Grid 7	Grid 8	Grid 9
0.132 M4	0.099 M4	0.064 M4



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CDMA 835 BC-0 Channel 777

Date: 07/23/2012

Communication System: CDMA_Tri_BC0&10, Frequency: 848.31 MHz, Duty Cycle: 1:1
 Medium: Air, Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

DASY4 Configuration:

Probe: ER3DV6 - SN2282 Probe: H3DV6 - SN6123, ConvF(1, 1, 1), Calibrated: 2/17/2012

Sensor-Surface: (Fix Surface),

Electronics: DAE4 Sn675, Calibrated: 5/23/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

CELL_777/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 60.0 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 78.5 V/m; Power Drift = 0.181 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
52.0 M4	57.5 M4	55.5 M4
Grid 4	Grid 5	Grid 6
55.3 M4	60.0 M4	57.8 M4
Grid 7	Grid 8	Grid 9
55.6 M4	59.3 M4	57.1 M4

CELL_777/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.089 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.068 A/m; Power Drift = -0.042 dB

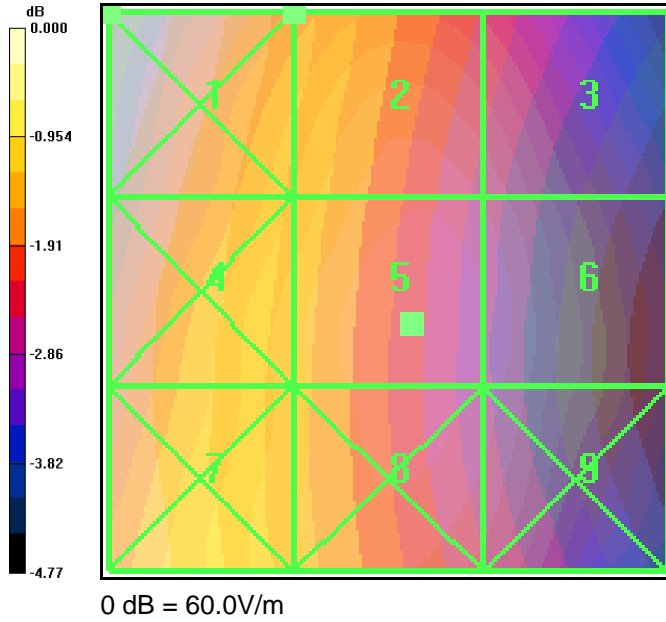
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.124 M4	0.089 M4	0.056 M4
Grid 4	Grid 5	Grid 6
0.114 M4	0.083 M4	0.050 M4
Grid 7	Grid 8	Grid 9
0.113 M4	0.081 M4	0.052 M4



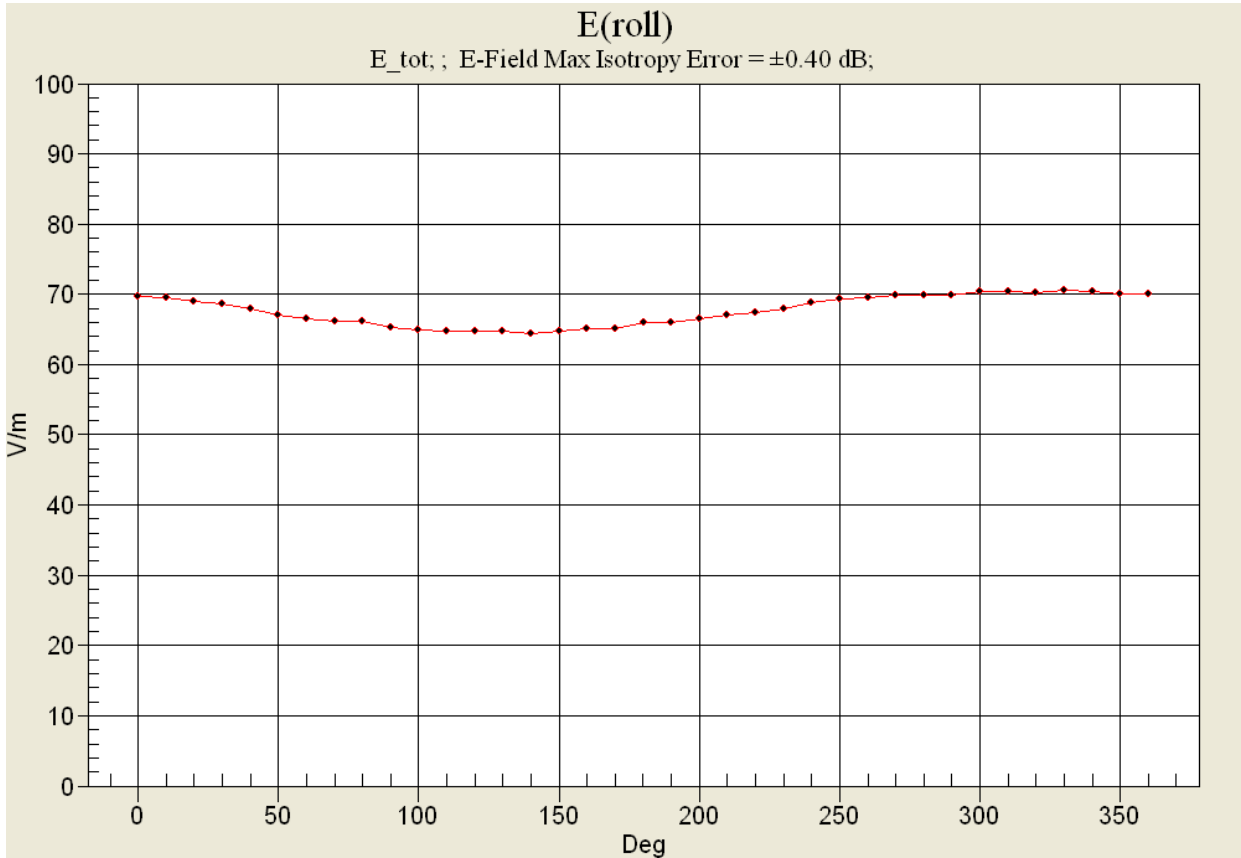
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CDMA 835 Channel 1013 (360) E roll





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PCS

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CDMA 1900 Channel 25

Date: 07/23/2012

Communication System: CDMA_Tri_BC0&10, Frequency: 1850 MHz, Duty Cycle: 1:1
 Medium: Air, Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

DASY4 Configuration:

Probe: ER3DV6 - SN2282 Probe: H3DV6 - SN6123, ConvF(1, 1, 1), Calibrated: 2/17/2012

Sensor-Surface: (Fix Surface),

Electronics: DAE4 Sn675, Calibrated: 5/23/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

PCS_25/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 44.3 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 44.3 V/m; Power Drift = -0.003 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
38.9 M4	35.3 M4	35.9 M4
Grid 4	Grid 5	Grid 6
30.3 M4	44.3 M4	44.2 M4
Grid 7	Grid 8	Grid 9
36.4 M4	46.9 M4	46.2 M4

PCS_25/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.146 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.158 A/m; Power Drift = 0.071 dB

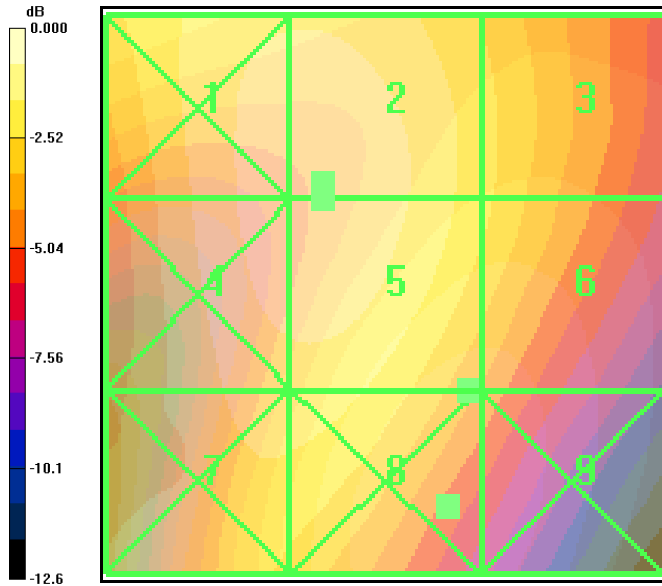
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.144 M4	0.146 M4	0.128 M4
Grid 4	Grid 5	Grid 6
0.144 M4	0.146 M4	0.127 M4
Grid 7	Grid 8	Grid 9
0.135 M4	0.135 M4	0.111 M4



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0 dB = 46.9V/m

CDMA 1900 Channel 600

Date: 07/23/2012

Communication System: CDMA_Tri_BC0&10, Frequency: 1880 MHz, Duty Cycle: 1:1
 Medium: Air, Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³ Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

DASY4 Configuration:

Probe: ER3DV6 - SN2282 Probe: H3DV6 - SN6123, ConvF(1, 1, 1), Calibrated: 2/17/2012
 Sensor-Surface: (Fix Surface),
 Electronics: DAE4 Sn675, Calibrated: 5/23/2012
 Measurement SW: DASY4, V4.7 Build 80
 Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

PCS_600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 46.4 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 45.8 V/m; Power Drift = 0.010 dB

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

Peak E-field in V/m

Grid 1	Grid 2	Grid 3
39.5 M4	39.1 M4	35.0 M4
Grid 4	Grid 5	Grid 6
34.1 M4	46.4 M4	46.4 M4
Grid 7	Grid 8	Grid 9
41.2 M4	50.8 M4	50.3 M4

PCS_600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.164 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.178 A/m; Power Drift = 0.000 dB

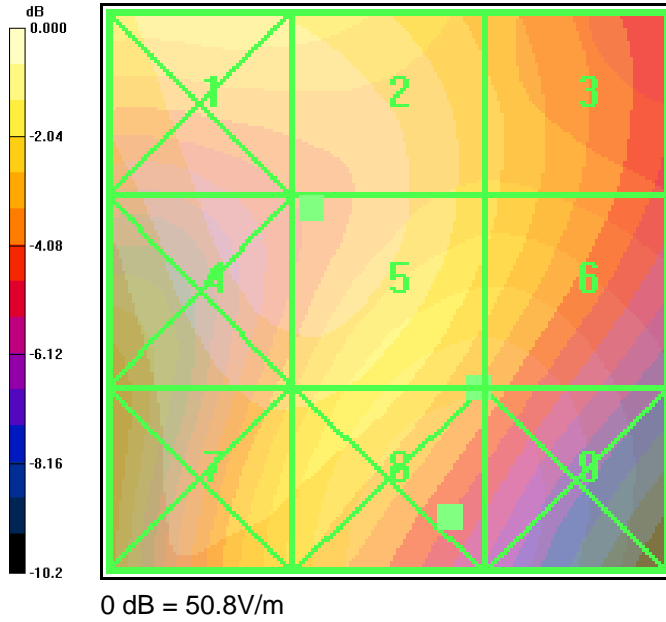
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.163 M4	0.164 M4	0.139 M4
Grid 4	Grid 5	Grid 6
0.163 M4	0.164 M4	0.139 M4
Grid 7	Grid 8	Grid 9
0.147 M4	0.147 M4	0.118 M4



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CDMA 1900 Channel 1175

Date: 07/23/2012

Communication System: CDMA_Tri_BC0&10, Frequency: 1910 MHz, Duty Cycle: 1:1

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

Phantom: HAC Test Arch with AMCC, Phantom section: RF Section

DASY4 Configuration:

Probe: ER3DV6 - SN2282 Probe: H3DV6 - SN6123, ConvF(1, 1, 1), Calibrated: 2/17/2012

Sensor-Surface: (Fix Surface),

Electronics: DAE4 Sn675, Calibrated: 5/23/2012

Measurement SW: DASY4, V4.7 Build 80

Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

Room T = 21.8 °C ± 1 deg C, Liquid T = 22.0 °C ± 1 deg C

PCS_1175/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 47.8 V/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 47.4 V/m; Power Drift = -0.020 dB

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

Peak E-field in V/m

Grid 1 41.6 M4	Grid 2 40.0 M4	Grid 3 37.3 M4
Grid 4 33.6 M4	Grid 5 47.8 M4	Grid 6 47.8 M4
Grid 7 39.3 M4	Grid 8 50.9 M4	Grid 9 50.4 M4

PCS_1175/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.176 A/m; Power Drift = -0.044 dB

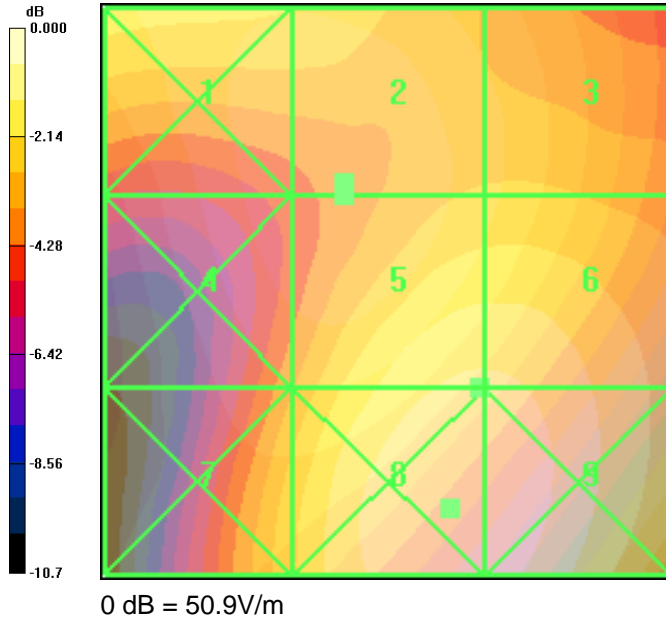
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.152 M4	Grid 2 0.154 M4	Grid 3 0.140 M4
Grid 4 0.152 M4	Grid 5 0.154 M4	Grid 6 0.139 M4
Grid 7 0.136 M4	Grid 8 0.136 M4	Grid 9 0.117 M4



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CDMA 1900 Channel 1175 (360) E roll

