

Test Laboratory: KWC

Date: 11/18/2009

HAC_ER3D_S2300 PCS_111809

Communication System: CDMA-1900, 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: 8/14/2009, Calibrated: 7/16/2009
 Sensor-Surface: (Fix Surface),
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009
 Measurement SW: DASY4, V4.7 Build 80
 Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature: Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

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

Maximum value of peak Total field = 36.6 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, -6.30 mm
 Reference Value = 30.4 V/m; Power Drift = -0.001 dB

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

Peak E-field in V/m

Grid 1 30.8 M4	Grid 2 24.6 M4	Grid 3 24.8 M4
Grid 4 27.0 M4	Grid 5 36.6 M4	Grid 6 36.6 M4
Grid 7 42.8 M4	Grid 8 45.9 M4	Grid 9 43.4 M4

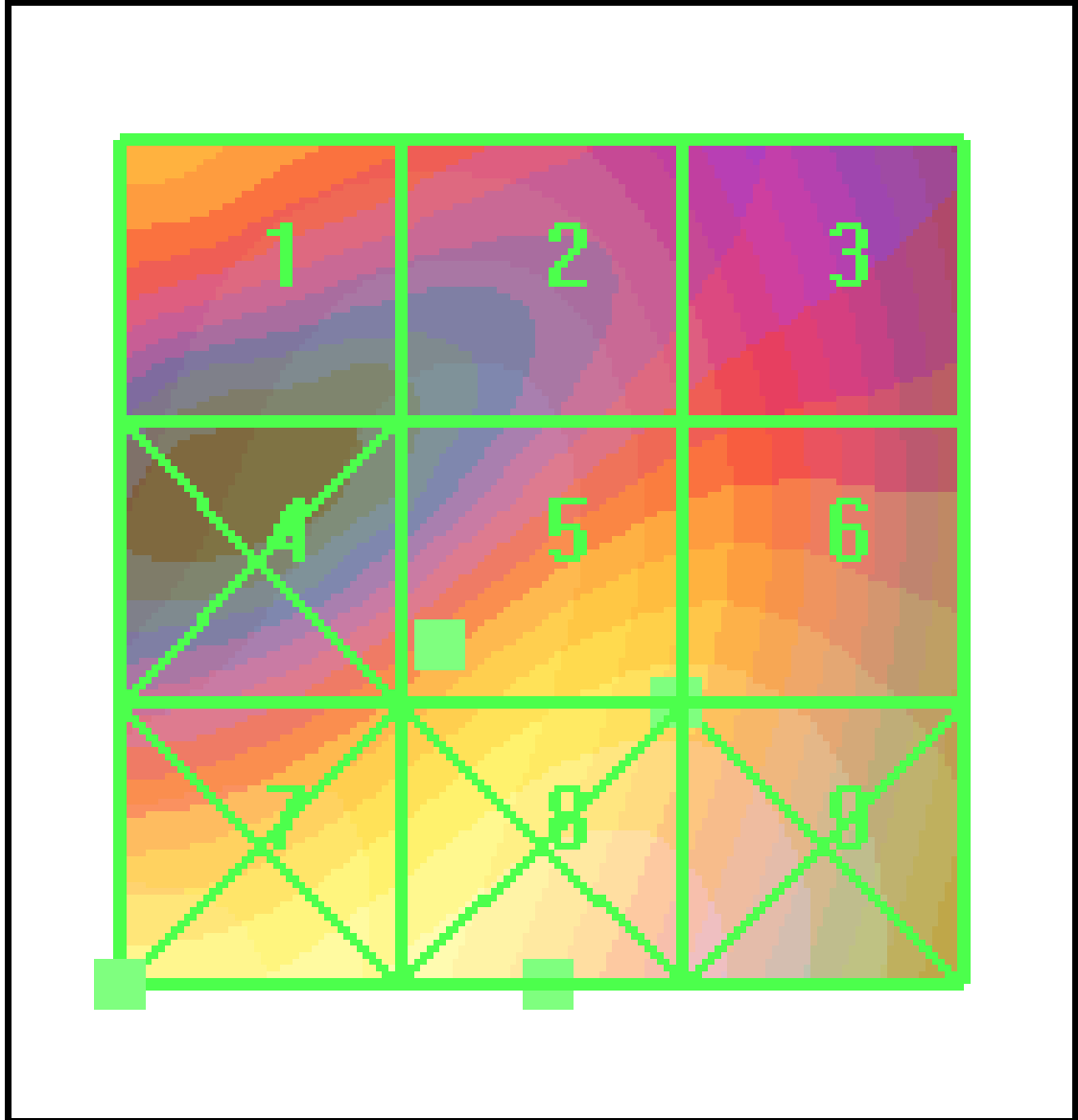
PCS_25/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.133 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, -6.30 mm
 Reference Value = 0.146 A/m; Power Drift = -0.018 dB

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

Peak H-field in A/m

Grid 1 0.129 M4	Grid 2 0.130 M4	Grid 3 0.116 M4
Grid 4 0.133 M4	Grid 5 0.133 M4	Grid 6 0.117 M4
Grid 7 0.147 M4	Grid 8 0.133 M4	Grid 9 0.113 M4



0 dB = 45.9V/m

Test Laboratory: KWC

Date 11/18/2009

HAC_ER3D_S2300 PCS_111809

Communication System: CDMA-1900, 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: 8/14/2009 Calibrated: 7/16/2009
 Sensor-Surface: (Fix Surface),
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009
 Measurement SW: DASY4, V4.7 Build 80
 Postprocessing SW: SEMCAD, V1.8 Build 186

Temperature:

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

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

Maximum value of peak Total field = 35.4 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, -6.30 mm
 Reference Value = 18.8 V/m; Power Drift = -0.165 dB

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

Peak E-field in V/m

Grid 1 35.4 M4	Grid 2 30.4 M4	Grid 3 25.6 M4
Grid 4 21.4 M4	Grid 5 28.0 M4	Grid 6 28.1 M4
Grid 7 39.0 M4	Grid 8 41.6 M4	Grid 9 37.2 M4

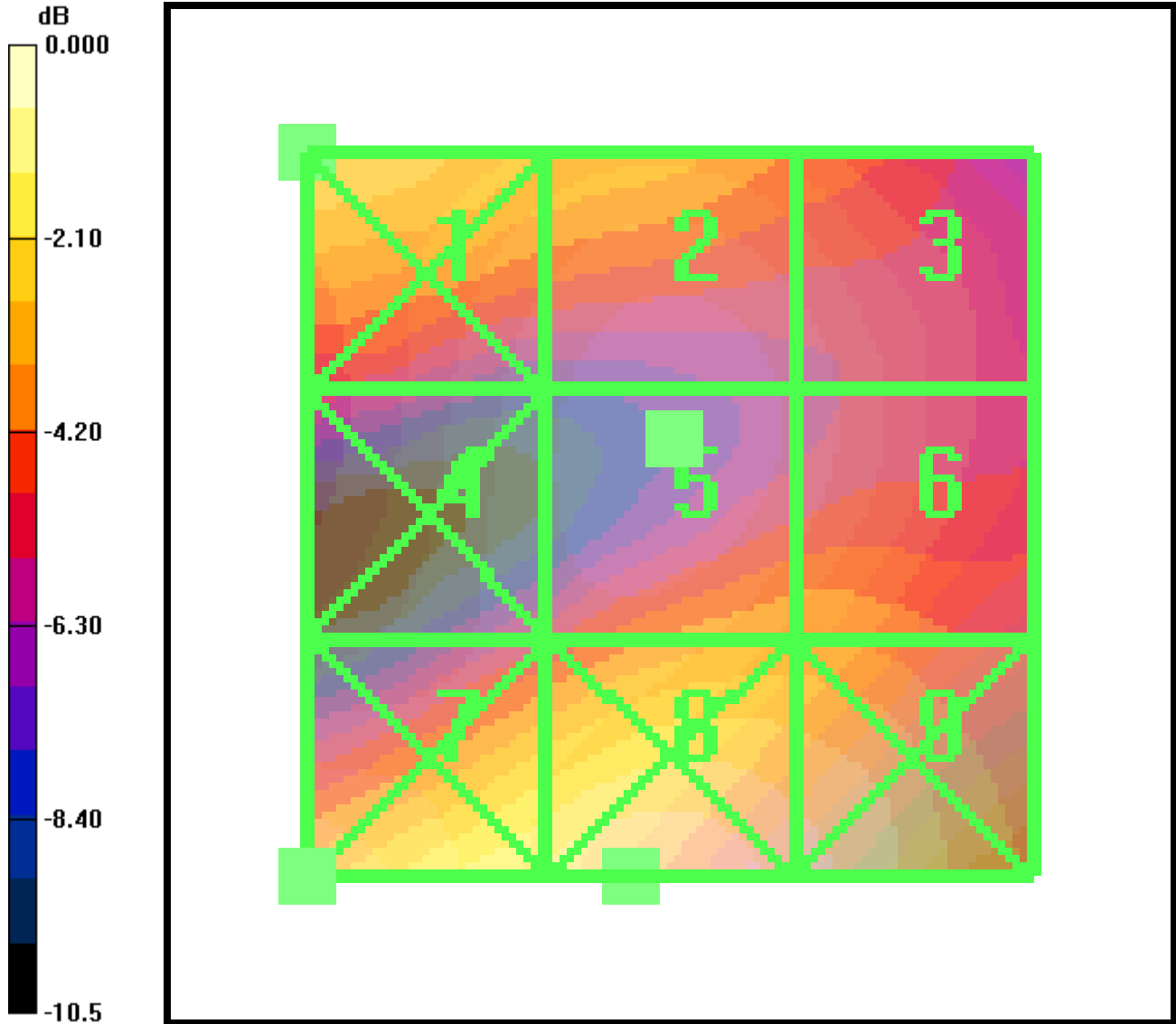
PCS_600/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.108 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, -6.30 mm
 Reference Value = 0.119 A/m; Power Drift = 0.094 dB

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

Peak H-field in A/m

Grid 1 0.103 M4	Grid 2 0.107 M4	Grid 3 0.103 M4
Grid 4 0.103 M4	Grid 5 0.108 M4	Grid 6 0.103 M4
Grid 7 0.113 M4	Grid 8 0.103 M4	Grid 9 0.094 M4



0 dB = 41.6V/m

Test Laboratory: KWC

Date: 11/18/2009

HAC_ER3D_S2300 PCS_111809

Communication System: CDMA-1900, Frequency: 1910 MHz Frequency: 1908.75 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: 8/14/2009 Calibrated: 7/16/2009
 Sensor-Surface: (Fix Surface),
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009
 Measurement SW: DASY4, V4.7 Build 80
 Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature: Room T = 21.8 ± 1 deg C, Liquid T = 22.0 ± 1 deg C

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

Maximum value of peak Total field = 35.7 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, -6.30 mm
 Reference Value = 17.8 V/m; Power Drift = 0.199 dB

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

Peak E-field in V/m

Grid 1 35.7 M4	Grid 2 32.1 M4	Grid 3 26.1 M4
Grid 4 21.2 M4	Grid 5 27.8 M4	Grid 6 27.7 M4
Grid 7 39.2 M4	Grid 8 41.6 M4	Grid 9 38.2 M4

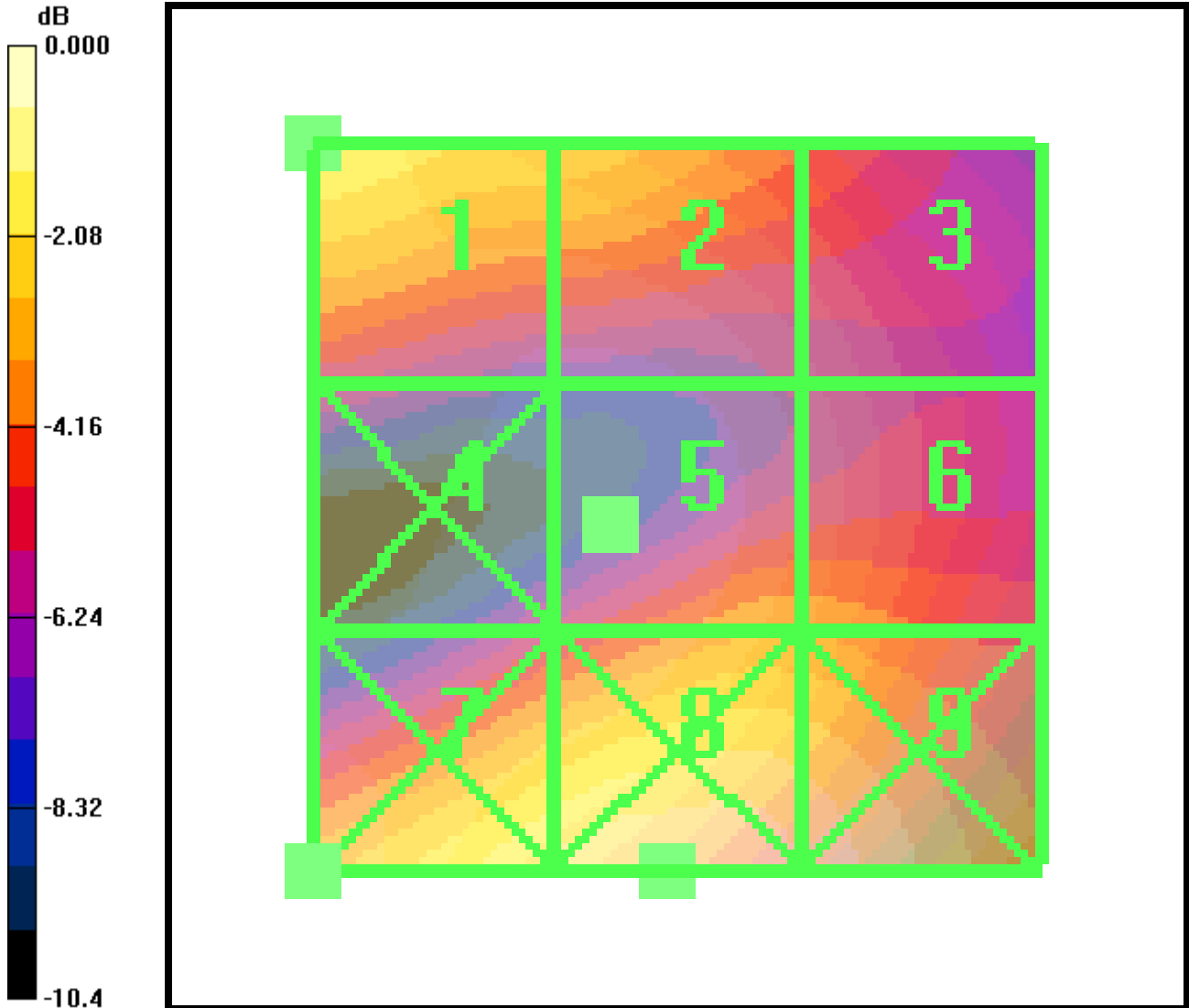
PCS_1175/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.122 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, -6.30 mm
 Reference Value = 0.136 A/m; Power Drift = 0.070 dB

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

Peak H-field in A/m

Grid 1 0.118 M4	Grid 2 0.118 M4	Grid 3 0.108 M4
Grid 4 0.121 M4	Grid 5 0.122 M4	Grid 6 0.111 M4
Grid 7 0.128 M4	Grid 8 0.121 M4	Grid 9 0.107 M4



0 dB = 41.6V/m

Test Laboratory: KWC

Date: 11/18/2009

HAC_ER3D_S2300_PCS_111809

Communication System: CDMA-1900, Frequency: 1851.25 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: 8/14/2009 Calibrated: 7/16/2009
 Sensor-Surface: (Fix Surface),
 Electronics: DAE4 Sn530, Calibrated: 3/12/2009
 Measurement SW: DASY4, V4.7 Build 80
 Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature: Room T = 21.8 +/- 1 deg C, Liquid T = 22.0 +/- 1 deg C

PCS_25 (360 degree)/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 36.3 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, -6.30 mm
 Reference Value = 28.6 V/m; Power Drift = 0.068 dB

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

Peak E-field in V/m

Grid 1 29.9 M4	Grid 2 24.4 M4	Grid 3 23.8 M4
Grid 4 26.6 M4	Grid 5 36.3 M4	Grid 6 36.2 M4
Grid 7 41.6 M4	Grid 8 46.0 M4	Grid 9 44.4 M4

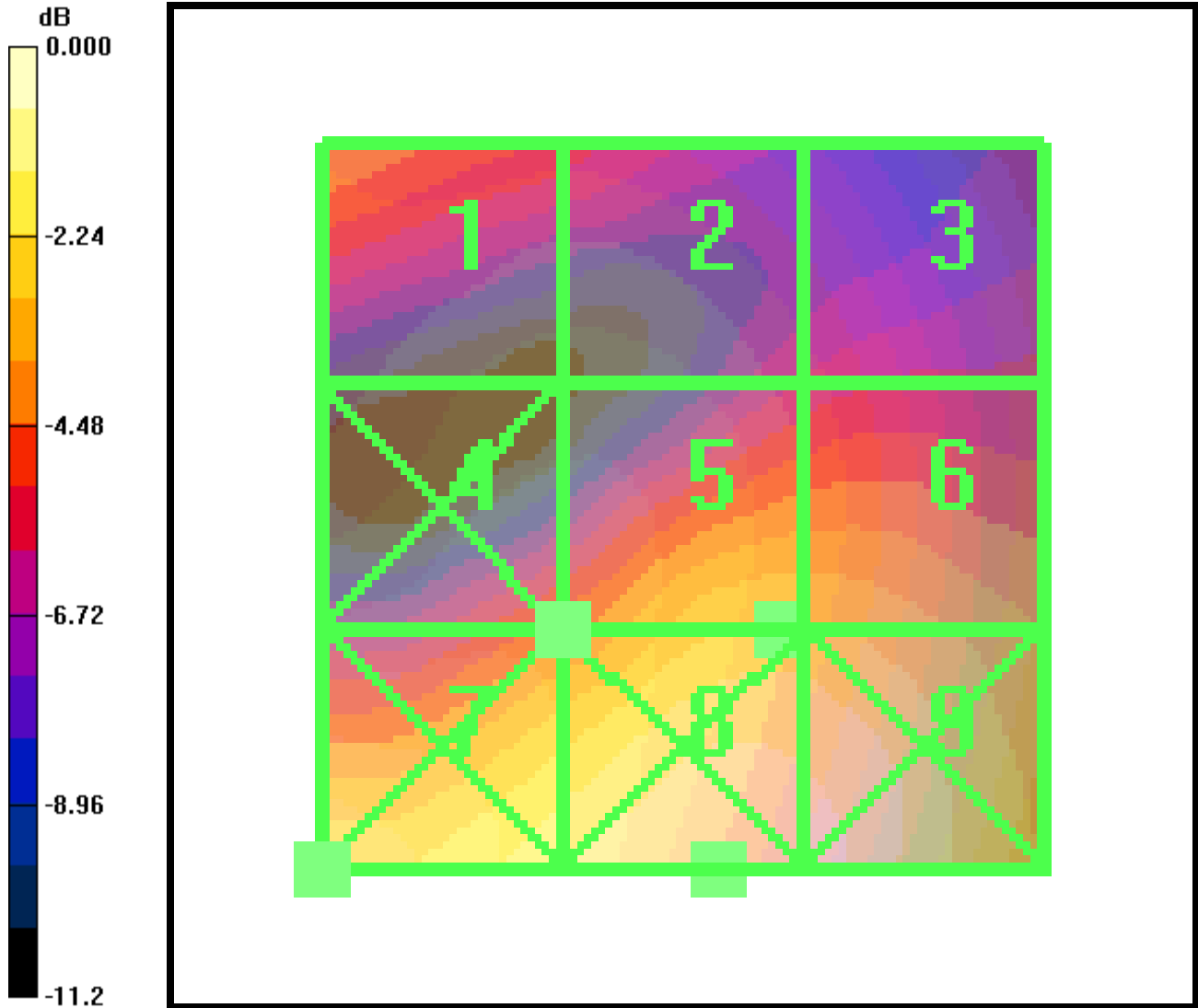
PCS_25 (360 degree)/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.129 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, -6.30 mm
 Reference Value = 0.139 A/m; Power Drift = 0.012 dB

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

Peak H-field in A/m

Grid 1 0.122 M4	Grid 2 0.122 M4	Grid 3 0.111 M4
Grid 4 0.129 M4	Grid 5 0.129 M4	Grid 6 0.114 M4
Grid 7 0.149 M4	Grid 8 0.131 M4	Grid 9 0.112 M4



0 dB = 46.0V/m