

Test Laboratory: UL CCS SAR Lab C

1_GSM 850

Communication System: Generic GSM; Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.145 A/m

Probe Modulation Factor = 2.790

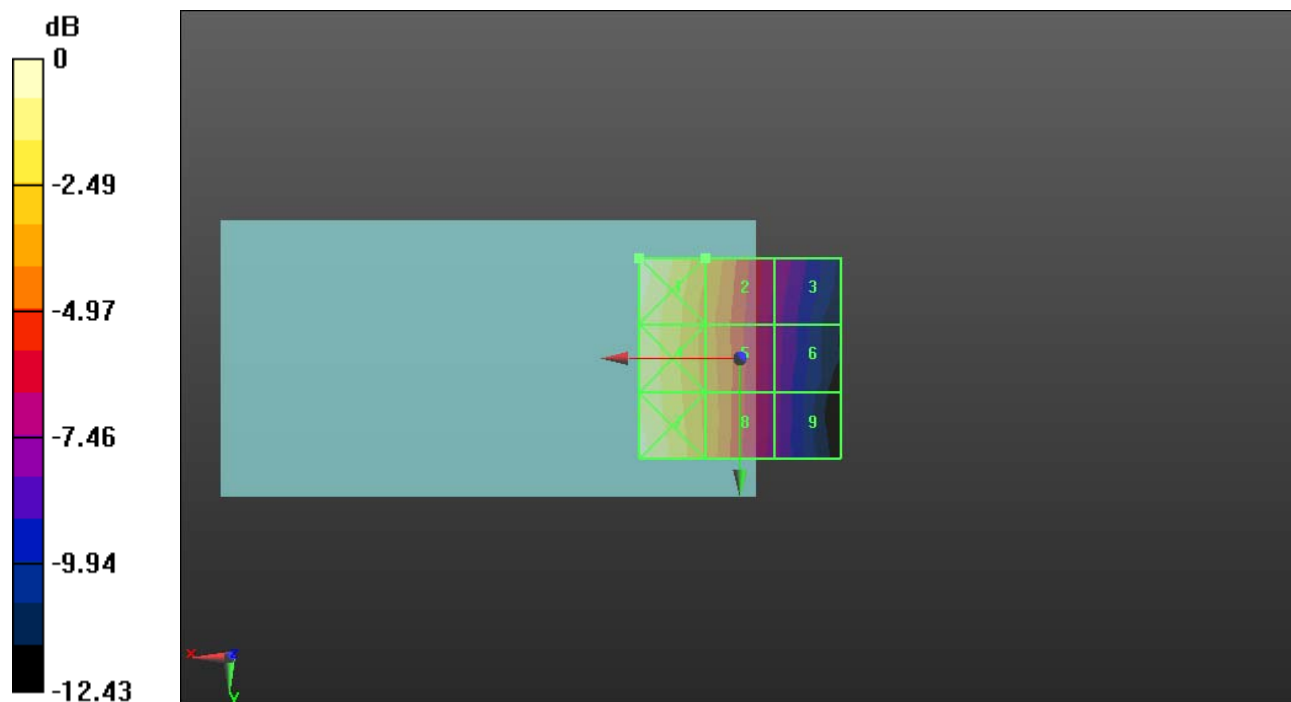
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.042 A/m; Power Drift = -0.02 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.206 M4	Grid 2 0.145 M4	Grid 3 0.091 M4
Grid 4 0.190 M4	Grid 5 0.140 M4	Grid 6 0.086 M4
Grid 7 0.199 M4	Grid 8 0.141 M4	Grid 9 0.086 M4



0 dB = 0.210 A/m

Test Laboratory: UL CCS SAR Lab C

1_GSM 850

Communication System: Generic GSM; Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.142 A/m

Probe Modulation Factor = 2.790

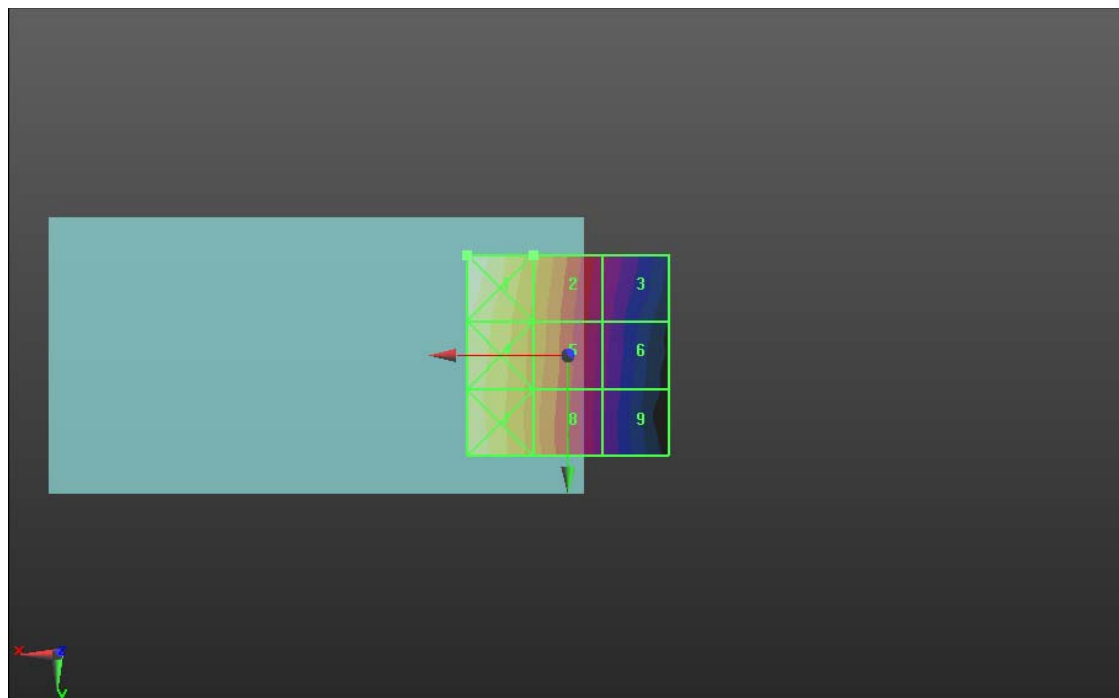
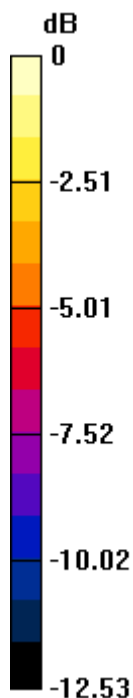
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.040 A/m; Power Drift = -0.10 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.203 M4	Grid 2 0.142 M4	Grid 3 0.088 M4
Grid 4 0.184 M4	Grid 5 0.133 M4	Grid 6 0.083 M4
Grid 7 0.183 M4	Grid 8 0.130 M4	Grid 9 0.079 M4



0 dB = 0.200 A/m

Test Laboratory: UL CCS SAR Lab C

1_GSM 850

Communication System: Generic GSM; Frequency: 848.6 MHz; Duty Cycle: 1:8.30042

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.134 A/m

Probe Modulation Factor = 2.790

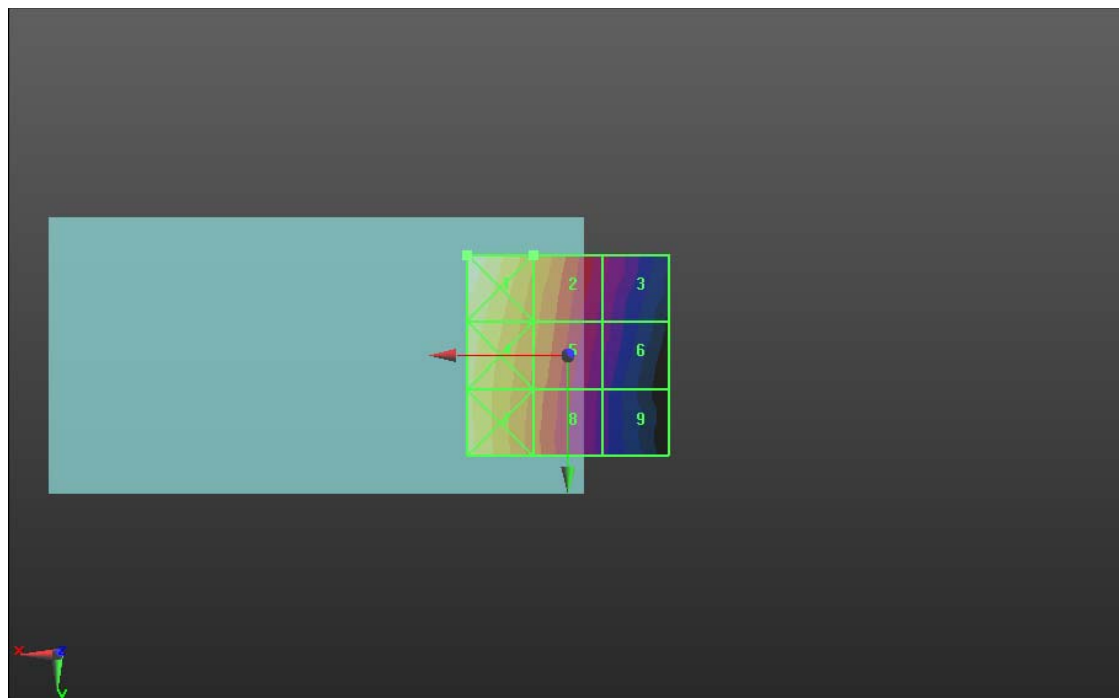
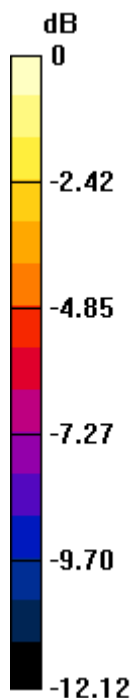
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.036 A/m; Power Drift = -0.07 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.190 M4	Grid 2 0.134 M4	Grid 3 0.086 M4
Grid 4 0.169 M4	Grid 5 0.123 M4	Grid 6 0.080 M4
Grid 7 0.164 M4	Grid 8 0.117 M4	Grid 9 0.073 M4



0 dB = 0.190 A/m

Test Laboratory: UL CCS SAR Lab C

2_GSM 1900

Communication System: Generic GSM; Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field/L ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.136 A/m

Probe Modulation Factor = 2.840

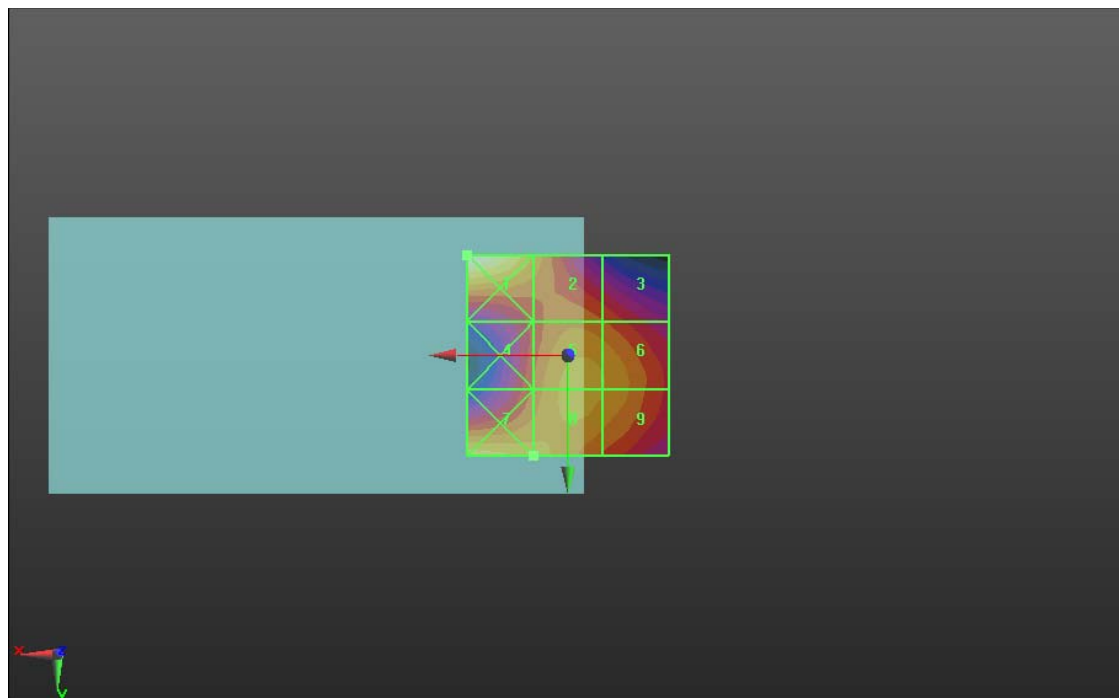
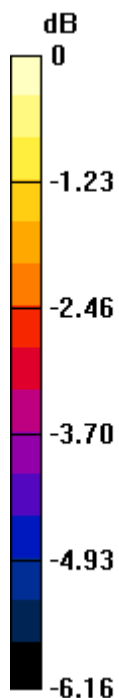
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.055 A/m; Power Drift = 0.25 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.163 M3	Grid 2 0.132 M4	Grid 3 0.121 M4
Grid 4 0.122 M4	Grid 5 0.135 M4	Grid 6 0.133 M4
Grid 7 0.145 M3	Grid 8 0.136 M4	Grid 9 0.133 M4



Test Laboratory: UL CCS SAR Lab C

2_GSM 1900

Communication System: Generic GSM; Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field/M ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.140 A/m

Probe Modulation Factor = 2.840

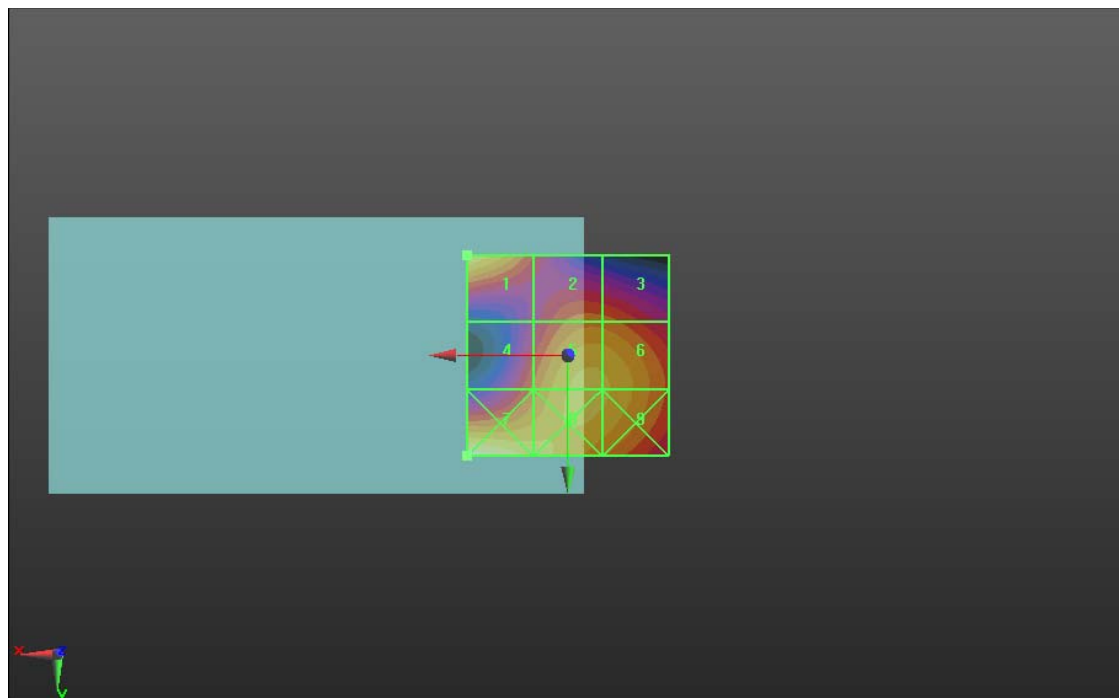
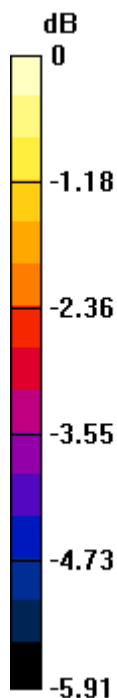
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.052 A/m; Power Drift = -0.03 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.140 M4	Grid 2 0.118 M4	Grid 3 0.117 M4
Grid 4 0.117 M4	Grid 5 0.133 M4	Grid 6 0.132 M4
Grid 7 0.150 M3	Grid 8 0.135 M4	Grid 9 0.132 M4



Test Laboratory: UL CCS SAR Lab C

2_GSM 1900

Communication System: Generic GSM; Frequency: 1909.8 MHz; Duty Cycle: 1:8.30042

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field/H ch/Hearing Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.118 A/m

Probe Modulation Factor = 2.840

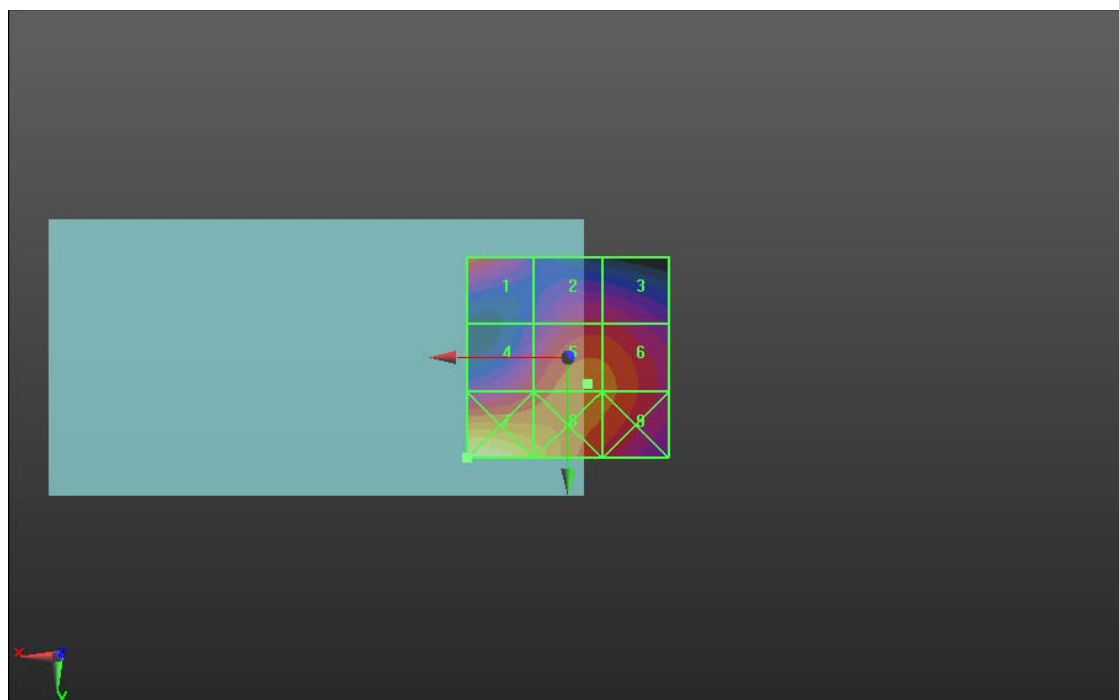
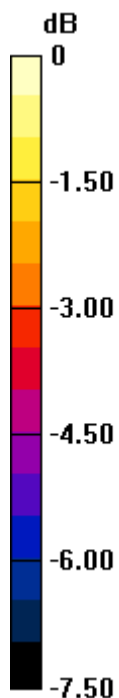
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.045 A/m; Power Drift = 0.18 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

Grid 1 0.112 M4	Grid 2 0.103 M4	Grid 3 0.103 M4
Grid 4 0.108 M4	Grid 5 0.118 M4	Grid 6 0.116 M4
Grid 7 0.156 M3	Grid 8 0.134 M4	Grid 9 0.116 M4



0 dB = 0.160 A/m

Test Laboratory: UL CCS SAR Lab C

3_UMTS band V

Communication System: UMTS-FDD (WCDMA); Frequency: 826.4 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field, R99 RMC 12.2kbps/L ch/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.043 A/m

Probe Modulation Factor = 0.900

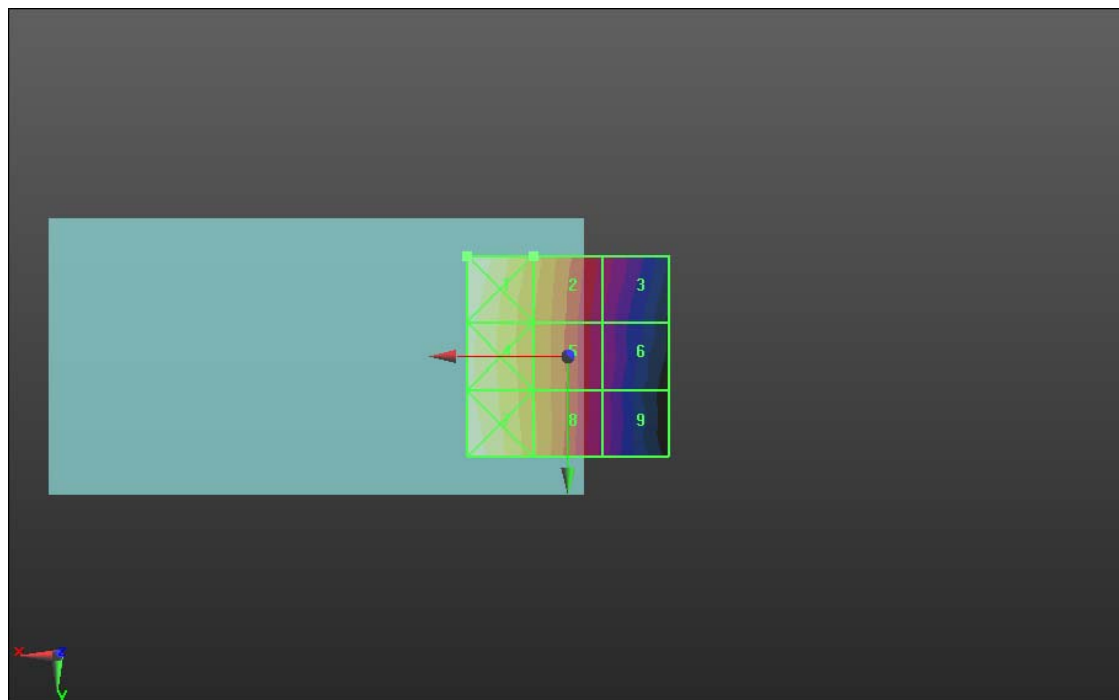
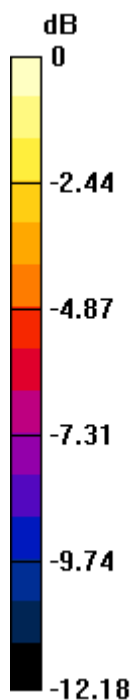
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.039 A/m; Power Drift = 0.11 dB

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

Peak H-field in A/m

Grid 1 0.062 M4	Grid 2 0.043 M4	Grid 3 0.028 M4
Grid 4 0.057 M4	Grid 5 0.042 M4	Grid 6 0.026 M4
Grid 7 0.059 M4	Grid 8 0.042 M4	Grid 9 0.026 M4



Test Laboratory: UL CCS SAR Lab C

3_UMTS band V

Communication System: UMTS-FDD (WCDMA); Frequency: 836.6 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field, R99 RMC 12.2kbps/M ch/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.050 A/m

Probe Modulation Factor = 0.900

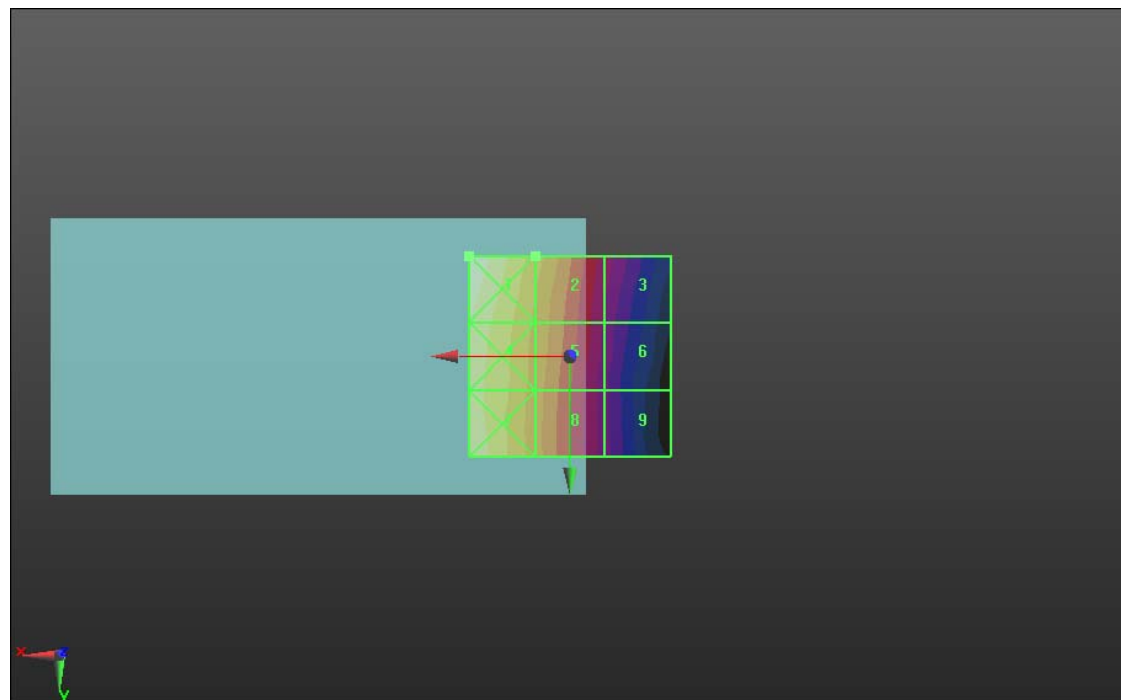
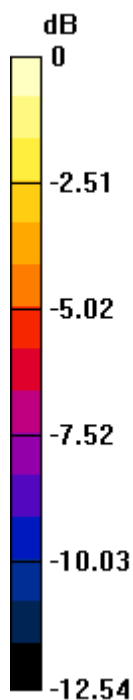
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.043 A/m; Power Drift = -0.01 dB

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

Peak H-field in A/m

Grid 1 0.070 M4	Grid 2 0.050 M4	Grid 3 0.031 M4
Grid 4 0.064 M4	Grid 5 0.047 M4	Grid 6 0.029 M4
Grid 7 0.063 M4	Grid 8 0.045 M4	Grid 9 0.028 M4



0 dB = 0.070 A/m

Test Laboratory: UL CCS SAR Lab C

3_UMTS band V

Communication System: UMTS-FDD (WCDMA); Frequency: 846.6 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field, R99 RMC 12.2kbps/H ch/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.040 A/m

Probe Modulation Factor = 0.900

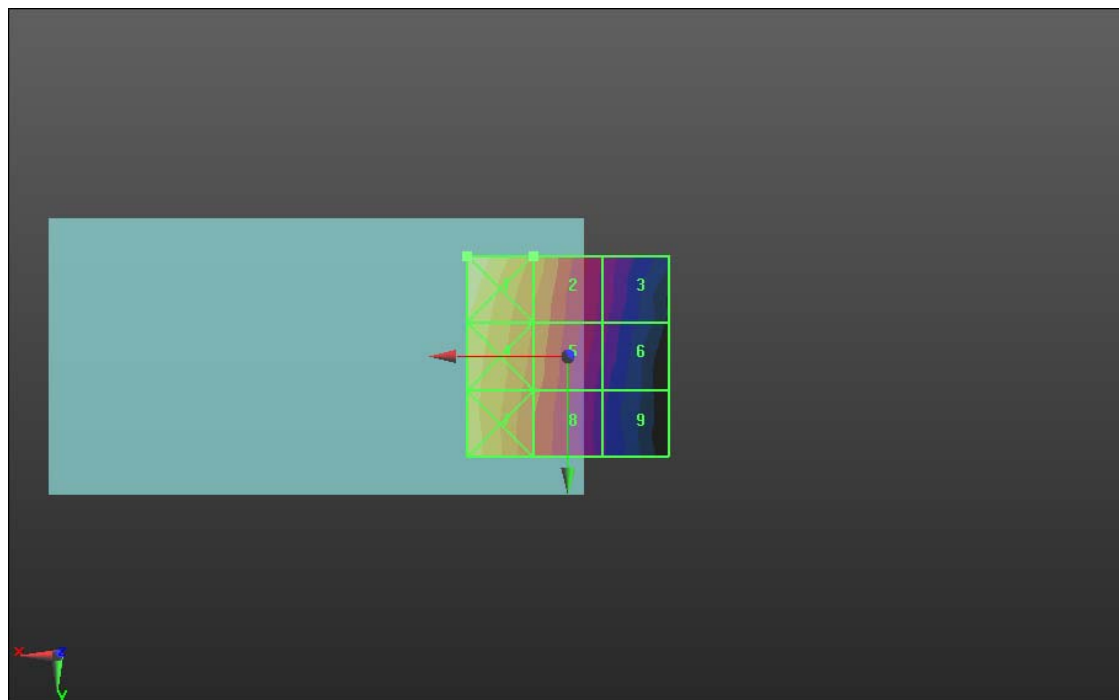
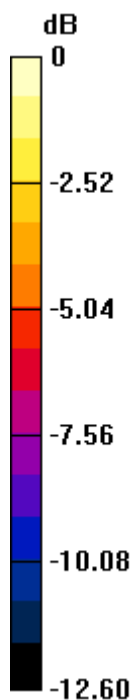
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.034 A/m; Power Drift = 0.05 dB

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

Peak H-field in A/m

Grid 1 0.055 M4	Grid 2 0.040 M4	Grid 3 0.025 M4
Grid 4 0.050 M4	Grid 5 0.037 M4	Grid 6 0.024 M4
Grid 7 0.049 M4	Grid 8 0.035 M4	Grid 9 0.022 M4



0 dB = 0.060 A/m

Test Laboratory: UL CCS SAR Lab C

4_UMTS band II

Communication System: UMTS-FDD (WCDMA); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field, R99 RMC 12.2kbps/L ch/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.065 A/m

Probe Modulation Factor = 0.950

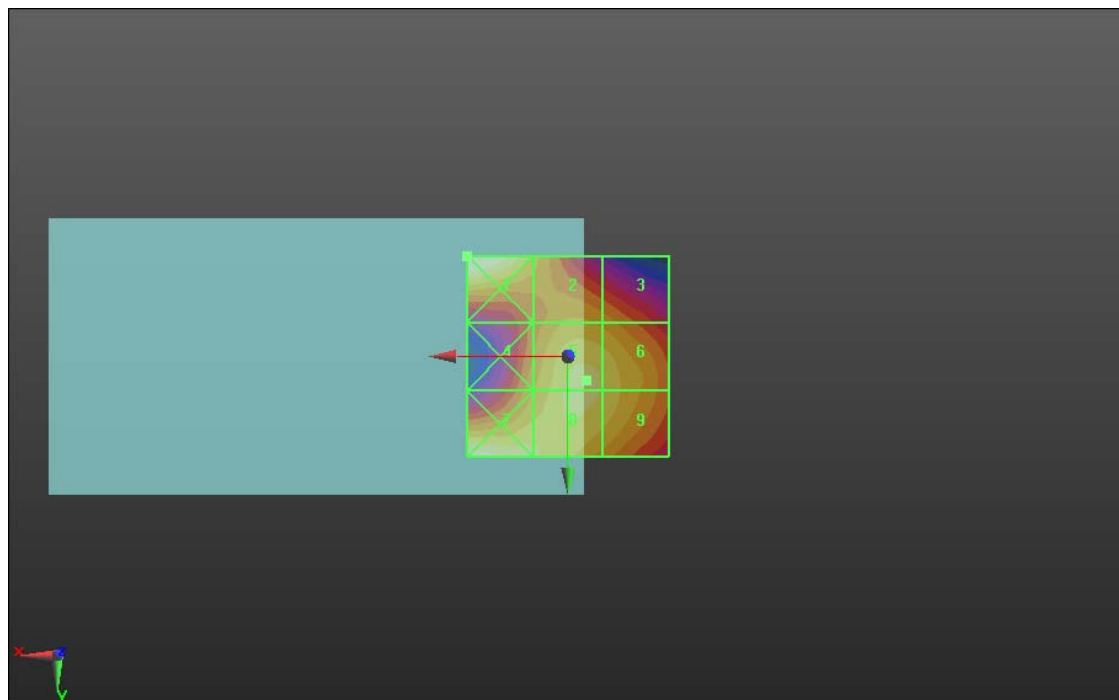
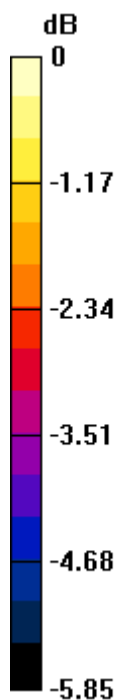
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.078 A/m; Power Drift = -0.05 dB

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

Peak H-field in A/m

Grid 1 0.074 M4	Grid 2 0.060 M4	Grid 3 0.058 M4
Grid 4 0.059 M4	Grid 5 0.065 M4	Grid 6 0.064 M4
Grid 7 0.070 M4	Grid 8 0.065 M4	Grid 9 0.064 M4



0 dB = 0.070 A/m

Test Laboratory: UL CCS SAR Lab C

4_UMTS band II

Communication System: UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field, R99 RMC 12.2kbps/M ch/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.062 A/m

Probe Modulation Factor = 0.950

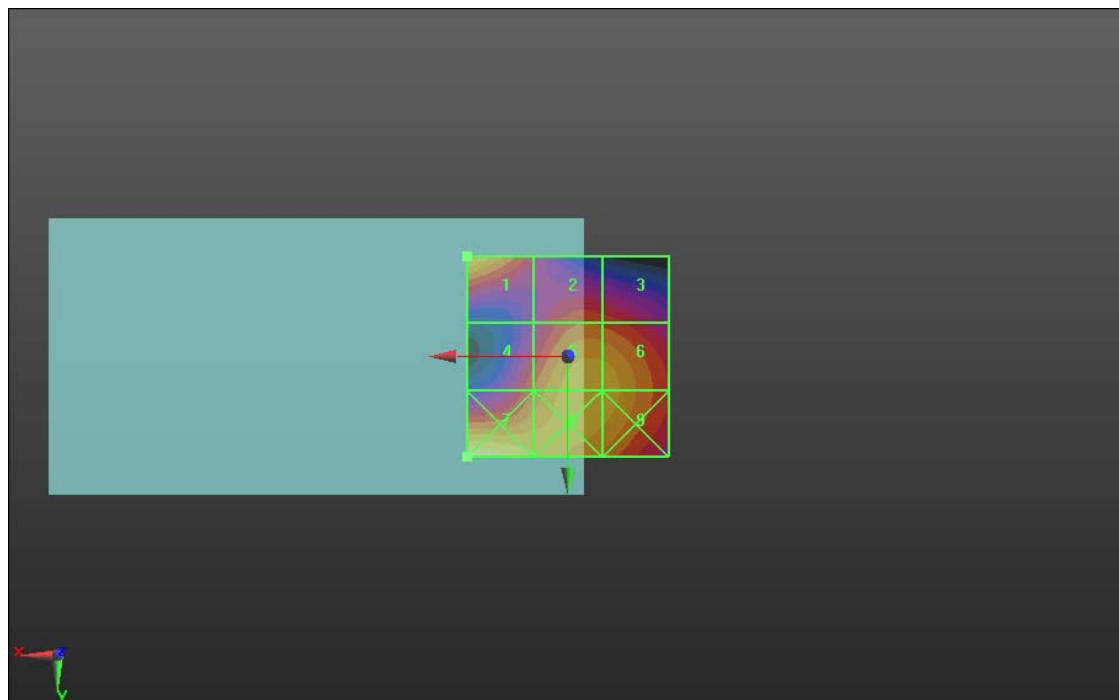
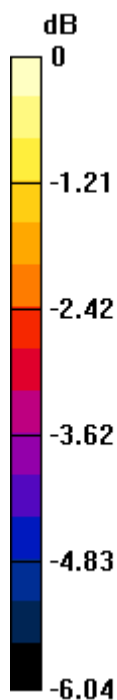
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.070 A/m; Power Drift = 0.02 dB

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

Peak H-field in A/m

Grid 1 0.062 M4	Grid 2 0.053 M4	Grid 3 0.052 M4
Grid 4 0.053 M4	Grid 5 0.060 M4	Grid 6 0.060 M4
Grid 7 0.068 M4	Grid 8 0.061 M4	Grid 9 0.060 M4



0 dB = 0.070A/m

Test Laboratory: UL CCS SAR Lab C

4_UMTS band II

Communication System: UMTS-FDD (WCDMA); Frequency: 1907.6 MHz; Duty Cycle: 1:1

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6324; ; Calibrated: 4/11/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1257; Calibrated: 5/3/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.5 (3634)

H-Field, R99 RMC 12.2kbps/H ch/Hearing Aid Compatibility Test (101x101x1):

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

Maximum value of peak Total field = 0.055 A/m

Probe Modulation Factor = 0.950

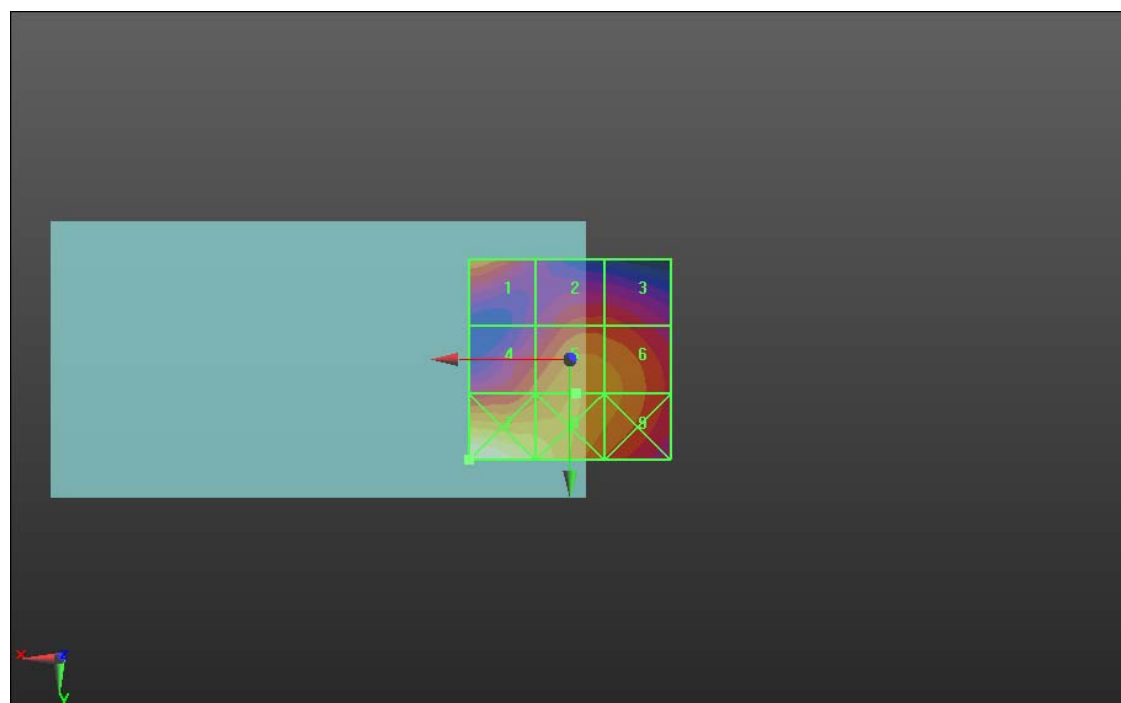
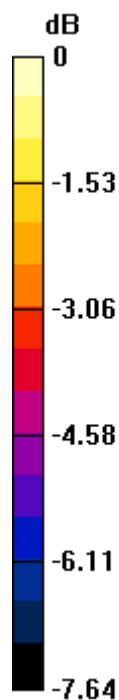
Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.064 A/m; Power Drift = 0.07 dB

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

Peak H-field in A/m

Grid 1 0.053 M4	Grid 2 0.048 M4	Grid 3 0.048 M4
Grid 4 0.051 M4	Grid 5 0.055 M4	Grid 6 0.054 M4
Grid 7 0.073 M4	Grid 8 0.062 M4	Grid 9 0.054 M4



0 dB = 0.070 A/m