Date: 4/25/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

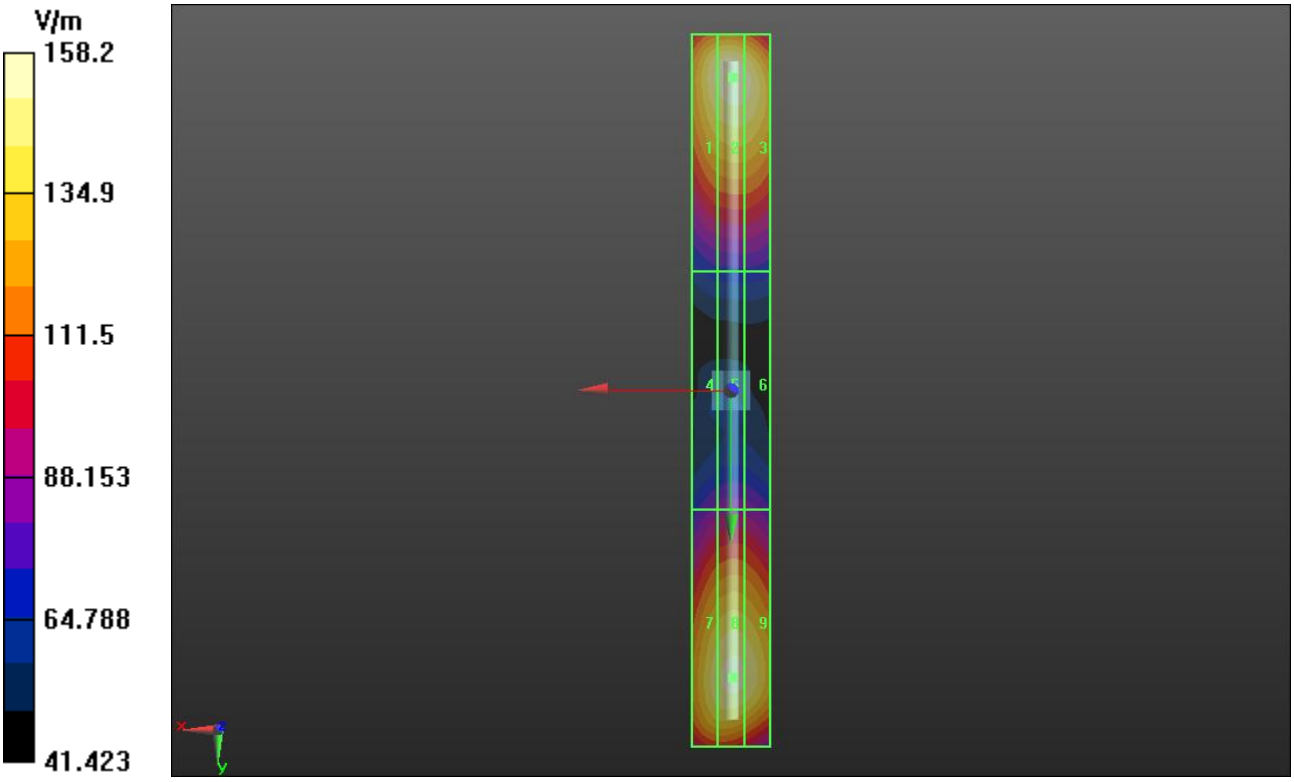
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD835V3, E-Field/Measurement distance from the probe sensor center to Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 118.7 V/m; Power Drift = -0.00 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 158.2 V/m
Near-field category: M4 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M4** **153.1 V/m**	Grid 2 **M4** **158.2 V/m**	Grid 3 **M4** **154.7 V/m**
Grid 4 **M4** **83.69 V/m**	Grid 5 **M4** **86.65 V/m**	Grid 6 **M4** **85.36 V/m**
Grid 7 **M4** **148.2 V/m**	Grid 8 **M4** **153.5 V/m**	Grid 9 **M4** **151.0 V/m**



Date: 4/25/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

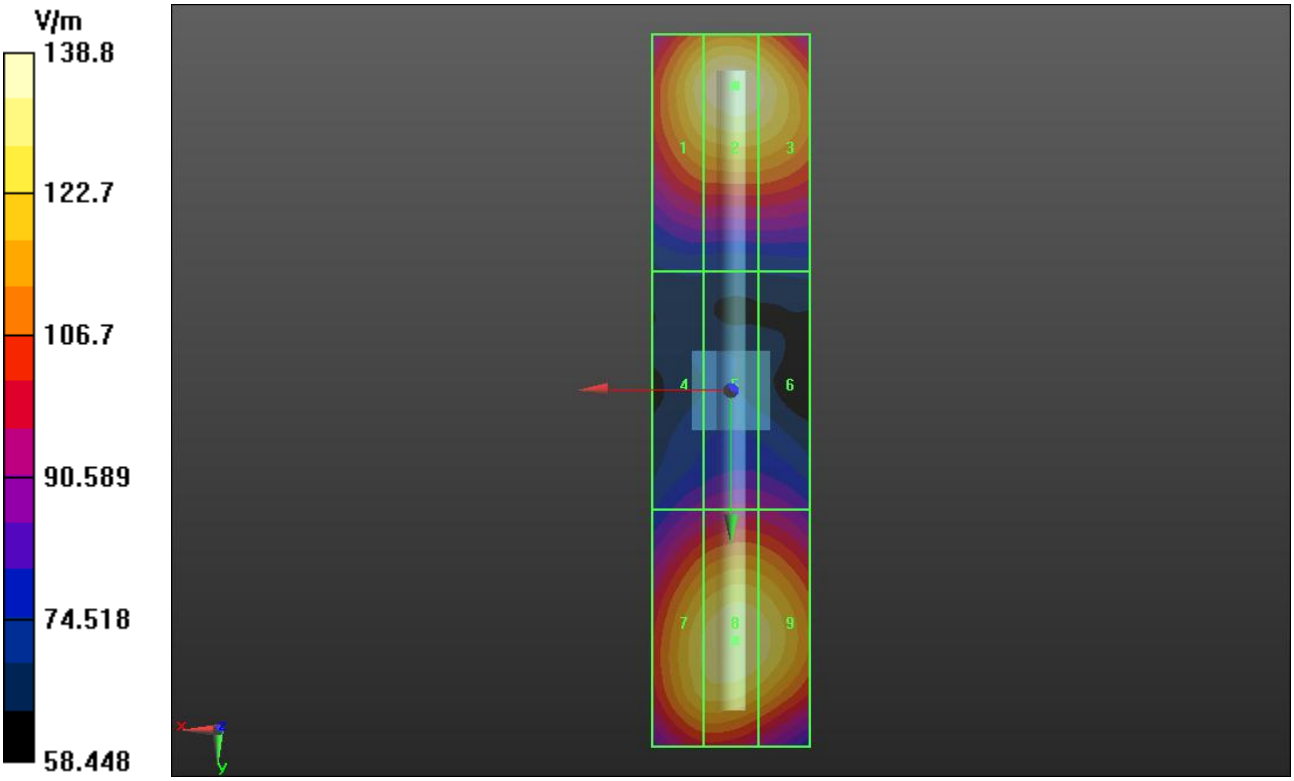
Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD1880V3, E-Field/Measurement distance from the probe sensor center to Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 134.2 V/m; Power Drift = 0.00 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 138.8 V/m
Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M2** **132.8 V/m**	Grid 2 **M2** **138.8 V/m**	Grid 3 **M2** **135.1 V/m**
Grid 4 **M3** **88.49 V/m**	Grid 5 **M3** **93.12 V/m**	Grid 6 **M3** **92.33 V/m**
Grid 7 **M2** **129.3 V/m**	Grid 8 **M2** **133.5 V/m**	Grid 9 **M2** **131.1 V/m**



Date: 4/26/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

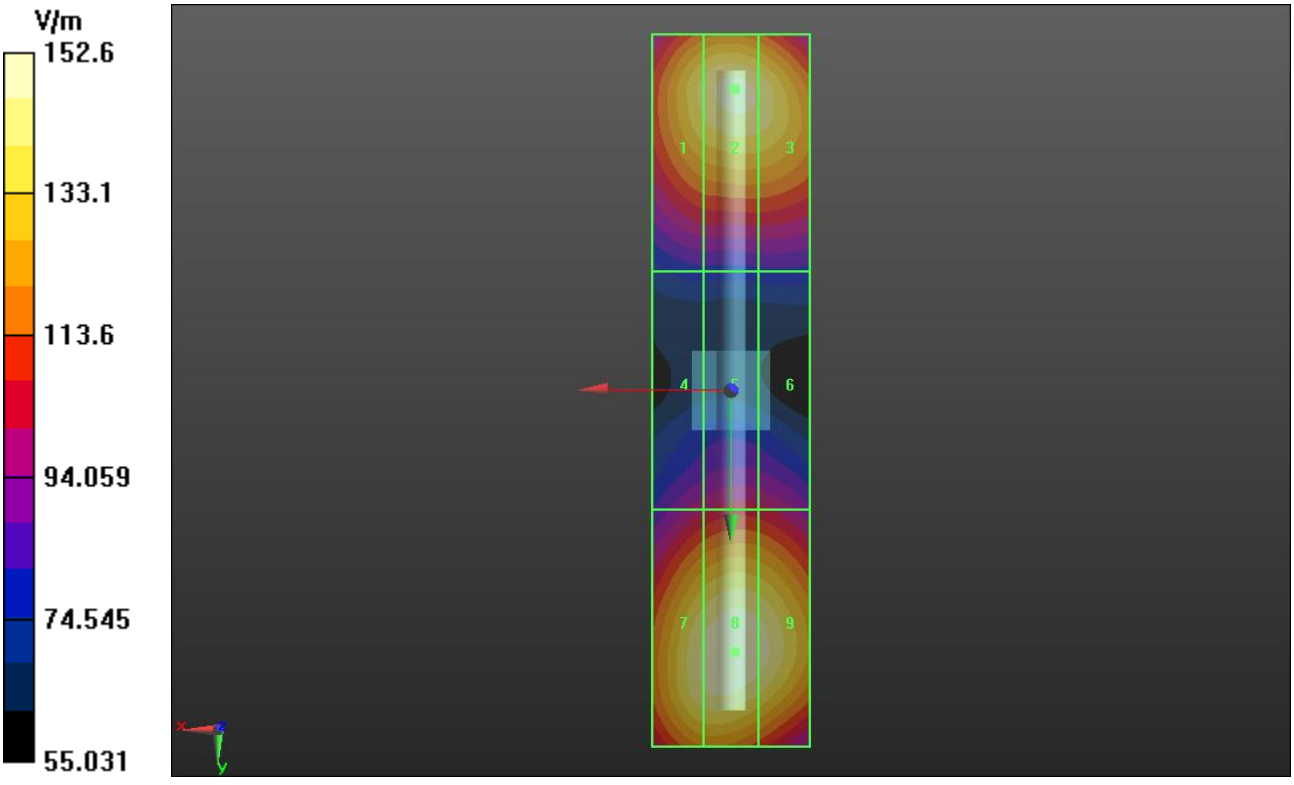
Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: ER3DV6 - SN2339; ConvF(1, 1, 1); Calibrated: 1/20/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD1730V3, Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1730 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 158.8 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 152.6 V/m
Near-field category: M2 (AWF 0 dB)

PMF scaled E-field

Grid 1 **M2** **142.5 V/m**	Grid 2 **M2** **149.0 V/m**	Grid 3 **M2** **145.2 V/m**
Grid 4 **M3** **99.46 V/m**	Grid 5 **M3** **104.6 V/m**	Grid 6 **M3** **103.2 V/m**
Grid 7 **M2** **148.1 V/m**	Grid 8 **M2** **152.6 V/m**	Grid 9 **M2** **149.4 V/m**



Date: 4/25/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

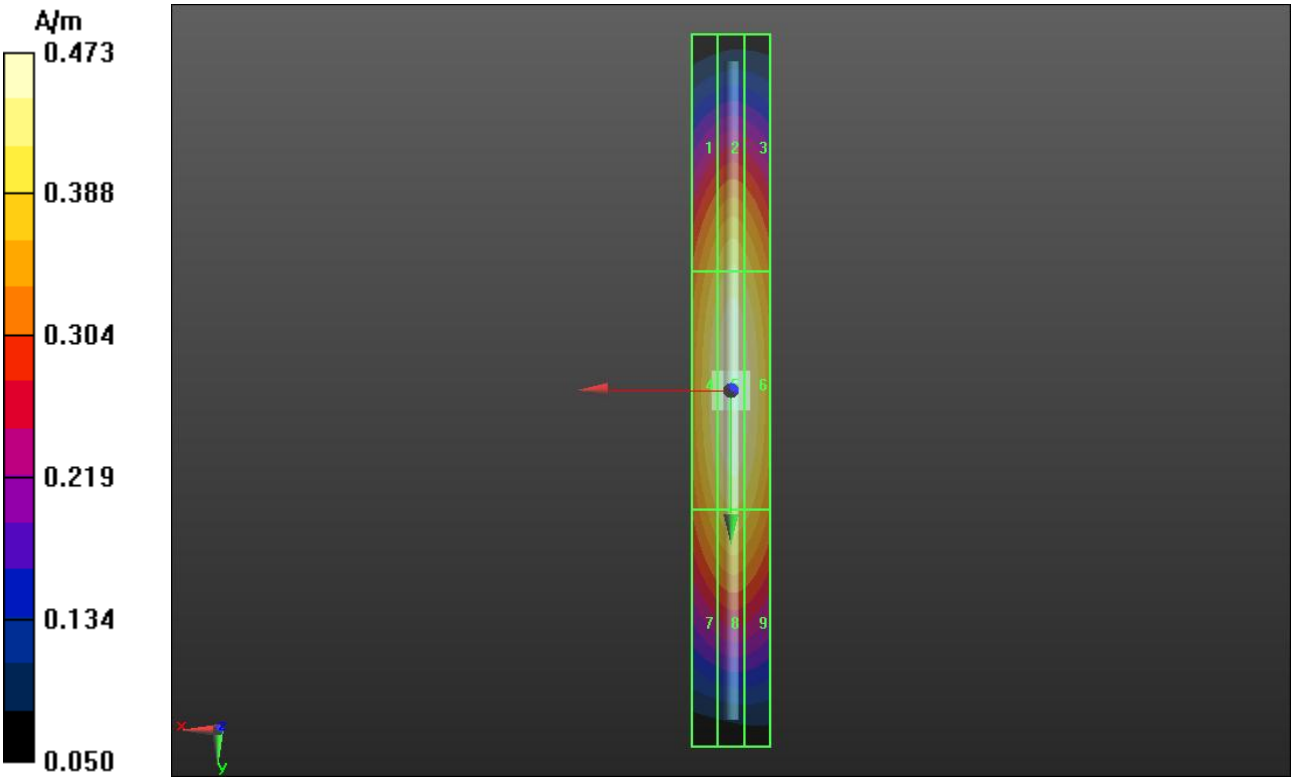
Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD835V3, H-Field/Measurement distance from the probe sensor center to Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.50 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.47 A/m
Near-field category: M4 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M4** **0.40 A/m**	Grid 2 **M4** **0.42 A/m**	Grid 3 **M4** **0.41 A/m**
Grid 4 **M4** **0.44 A/m**	Grid 5 **M4** **0.47 A/m**	Grid 6 **M4** **0.46 A/m**
Grid 7 **M4** **0.39 A/m**	Grid 8 **M4** **0.42 A/m**	Grid 9 **M4** **0.40 A/m**



Date: 4/25/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

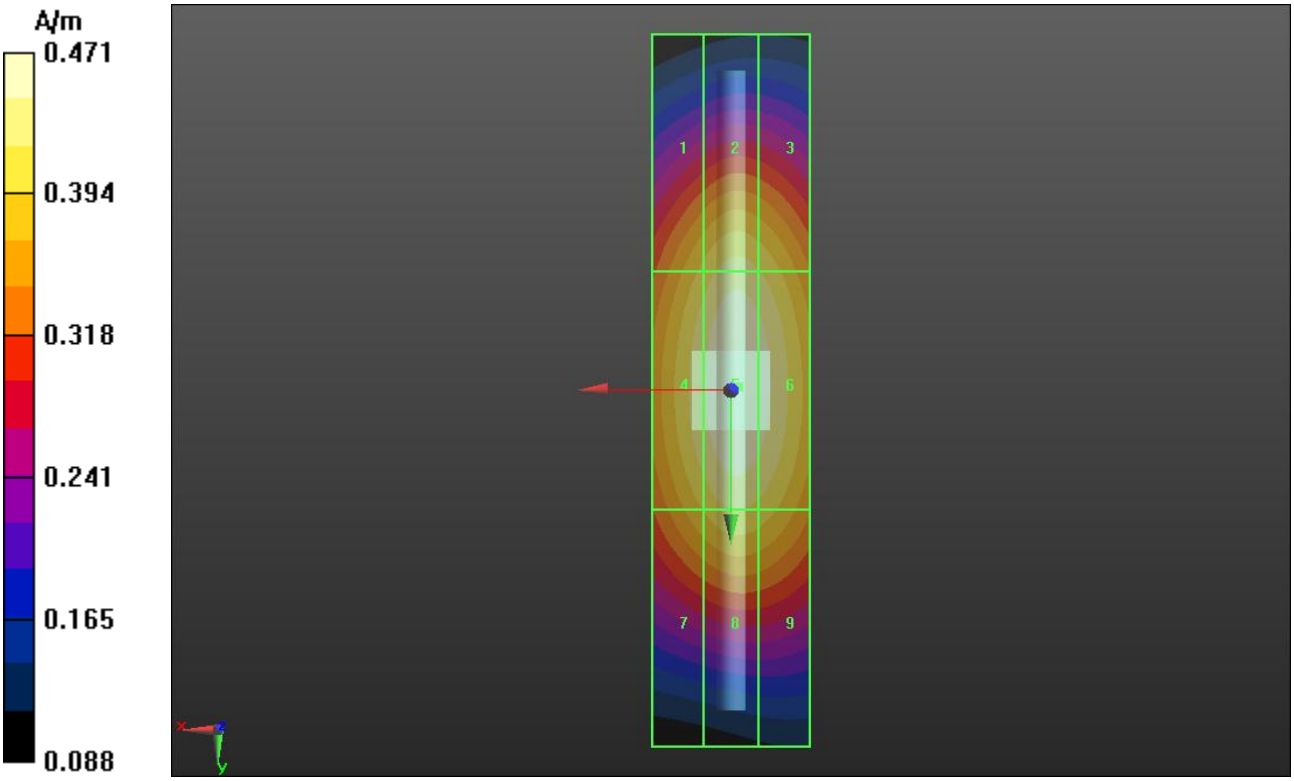
Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD1880V3, H-Field/Measurement distance from the probe sensor center to Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.50 V/m; Power Drift = -0.00 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.47 A/m
Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M2** **0.40 A/m**	Grid 2 **M2** **0.43 A/m**	Grid 3 **M2** **0.42 A/m**
Grid 4 **M2** **0.44 A/m**	Grid 5 **M2** **0.47 A/m**	Grid 6 **M2** **0.46 A/m**
Grid 7 **M2** **0.40 A/m**	Grid 8 **M2** **0.42 A/m**	Grid 9 **M2** **0.41 A/m**



Date: 4/26/2012

Test Laboratory: UL CCS SAR Lab C

System Validation

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Phantom section: RF Section
DASY4 Configuration:
- Probe: H3DV6 - SN6157; ; Calibrated: 1/30/2012
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn500; Calibrated: 7/14/2011
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (0);SEMCAD X Version 14.6.4 (4989)

CD1730V3, Dipole H-Field meausrement/H Scan - measurement distance from the probe sensor center to CD1730 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Device Reference Point: 0, 0, -6.3 mm
Reference Value = 0.51 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
H-field emissions = 0.48 A/m
Near-field category: M2 (AWF 0 dB)

PMF scaled H-field

Grid 1 **M2** **0.39 A/m**	Grid 2 **M2** **0.42 A/m**	Grid 3 **M2** **0.41 A/m**
Grid 4 **M2** **0.45 A/m**	Grid 5 **M2** **0.48 A/m**	Grid 6 **M2** **0.46 A/m**
Grid 7 **M2** **0.40 A/m**	Grid 8 **M2** **0.42 A/m**	Grid 9 **M2** **0.41 A/m**