Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/11/22

HAC_E_Dipole_835

DUT: HAC-Dipole 835 MHz

Communication System: UID 0, CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

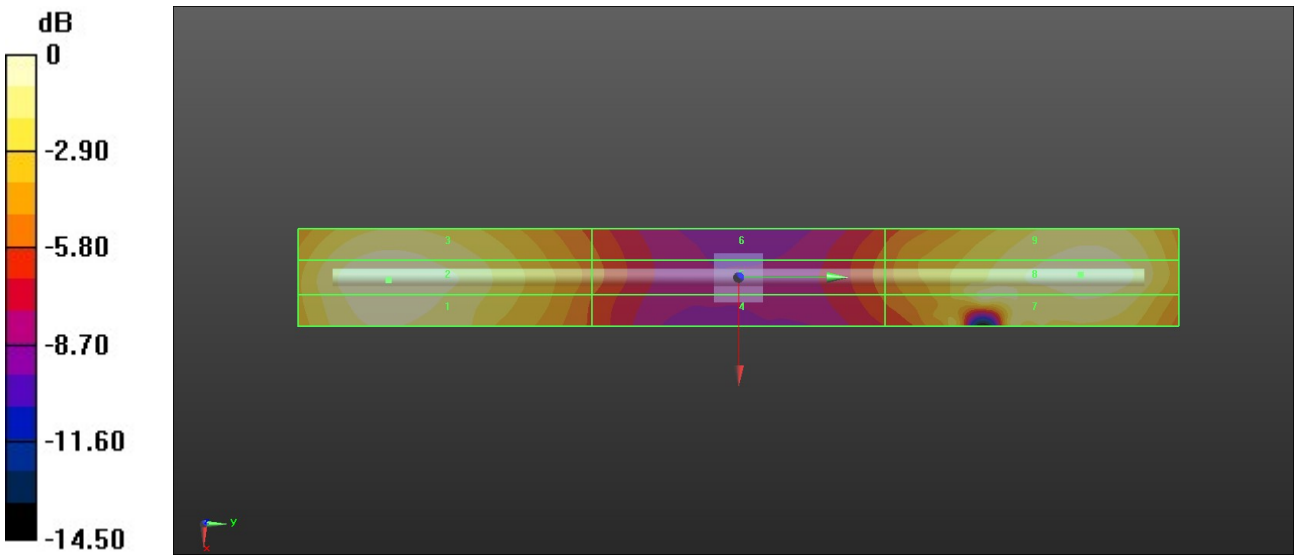
DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1338; Calibrated: 2022/12/15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

E Scan - measurement distance from the probe sensor center to CD835 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 99.51 V/m; Power Drift = 0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 102.6 V/m
Average value of Total=(102.6+97.66)/2=100.13 V/m

PMF scaled E-field

Grid 1 **M4** **99.21 V/m**	Grid 2 **M4** **102.6 V/m**	Grid 3 **M4** **97.21 V/m**
Grid 4 **M4** **55.77 V/m**	Grid 5 **M4** **57.81 V/m**	Grid 6 **M4** **56.12 V/m**
Grid 7 **M4** **97.67 V/m**	Grid 8 **M4** **97.66 V/m**	Grid 9 **M4** **96.33 V/m**

Total = 102.6 V/m
E Category: M4
Location: 0.5, -71.5, 9.7 mm



0 dB = 102.6 V/m = 38.98 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/11/22

HAC_E_Dipole_1880

DUT: HAC Dipole 1880 MHz

Communication System: UID 0, CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1338; Calibrated: 2022/12/15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

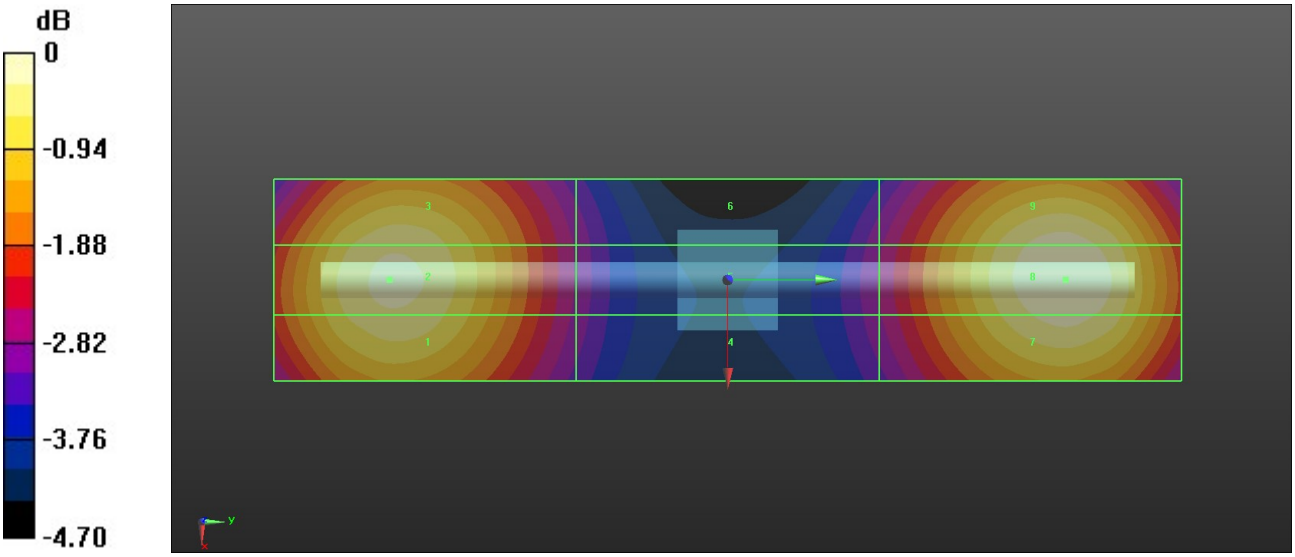
E Scan - measurement distance from the probe sensor center to CD1880 =15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated

grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 146.0 V/m; Power Drift = -0.11 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 83.47 V/m
Average value of Total=(83.47+81.45)/2=82.46 V/m

PMF scaled E-field

Grid 1 **M3** **80.11 V/m**	Grid 2 **M3** **81.45 V/m**	Grid 3 **M3** **79.97 V/m**
Grid 4 **M4** **60.08 V/m**	Grid 5 **M4** **60.65 V/m**	Grid 6 **M4** **59.97 V/m**
Grid 7 **M3** **81.68 V/m**	Grid 8 **M3** **83.47 V/m**	Grid 9 **M3** **81.83 V/m**

Total = 83.47 V/m
E Category: M3
Location: 0, 33.5, 9.7 mm



0 dB = 83.47 V/m = 38.20 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/11/22

HAC_E_Dipole_2450

DUT: HAC Dipole 2450 MHz

Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

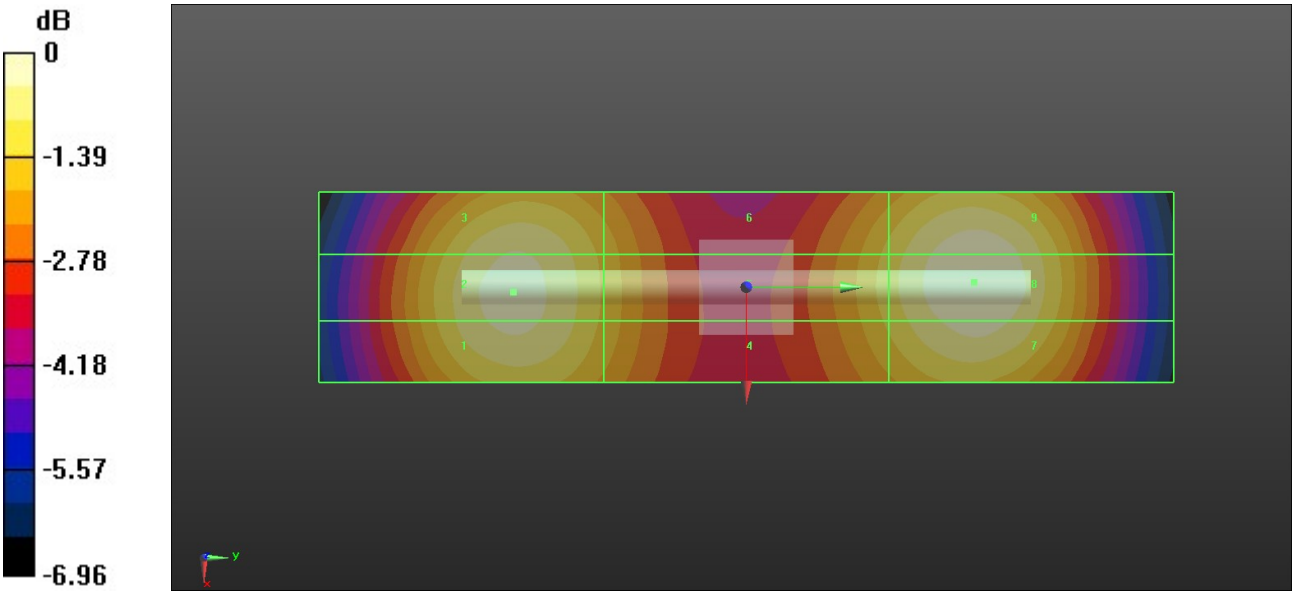
DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1338; Calibrated: 2022/12/15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

E Scan - measurement distance from the probe sensor center to CD2450 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 73.28 V/m; Power Drift = -0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 84.98 V/m
Average value of Total=(84.98+82.66)/2=83.82 V/m

PMF scaled E-field

Grid 1 **M3** **81.73 V/m**	Grid 2 **M3** **82.66 V/m**	Grid 3 **M3** **80.88 V/m**
Grid 4 **M3** **73.34 V/m**	Grid 5 **M3** **74.70 V/m**	Grid 6 **M3** **73.78 V/m**
Grid 7 **M3** **82.63 V/m**	Grid 8 **M3** **84.98 V/m**	Grid 9 **M3** **83.76 V/m**

Total = 84.98 V/m
E Category: M3
Location: -0.5, 24, 8.7 mm



0 dB = 84.98 V/m = 38.35 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/11/22

HAC_E_Dipole_2600

DUT: HAC Dipole 2600 MHz

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

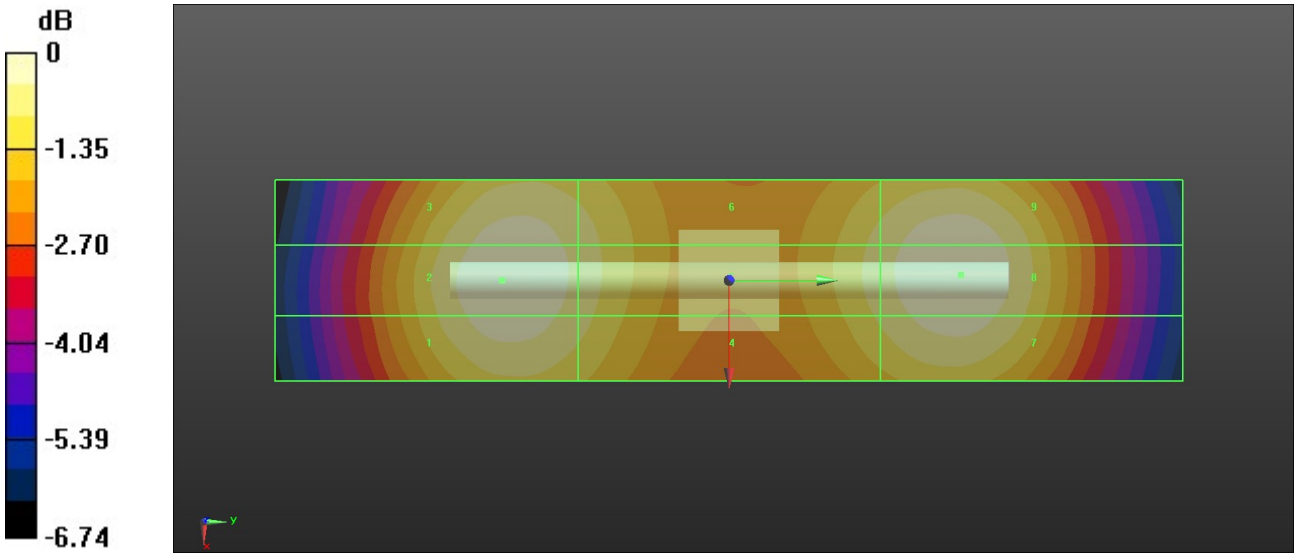
DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1338; Calibrated: 2022/12/15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

E Scan - measurement distance from the probe sensor center to CD2600 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 67.05 V/m; Power Drift = -0.09 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 82.19 V/m
Average value of Total=(82.19+81.75)/2=81.97 V/m

PMF scaled E-field

Grid 1 **M3** **80.34 V/m**	Grid 2 **M3** **81.75 V/m**	Grid 3 **M3** **80.54 V/m**
Grid 4 **M3** **75.91 V/m**	Grid 5 **M3** **77.10 V/m**	Grid 6 **M3** **76.61 V/m**
Grid 7 **M3** **80.83 V/m**	Grid 8 **M3** **82.19 V/m**	Grid 9 **M3** **81.94 V/m**

Total = 82.19 V/m
E Category: M3
Location: -0.5, 23, 9.7 mm



0 dB = 82.19 V/m = 38.06 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/11/23

HAC_E_Dipole_3500

DUT: HAC Dipole 3500 MHz

Communication System: UID 0, CW (0); Frequency: 3500 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

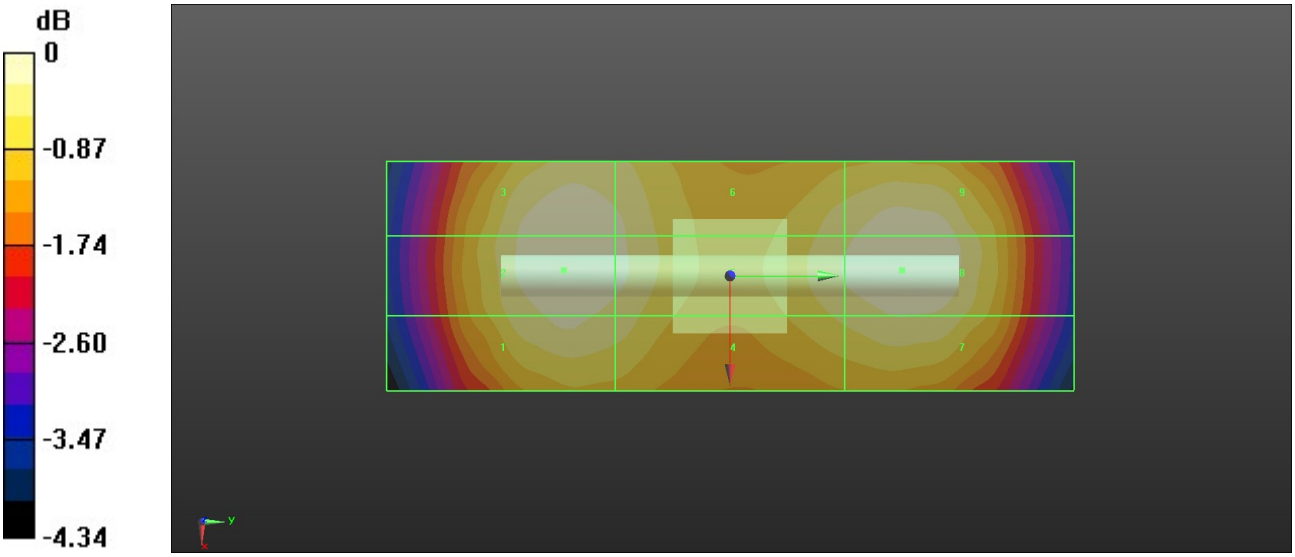
DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1338; Calibrated: 2022/12/15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

E Scan - measurement distance from the probe sensor center to CD3500 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x121x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 39.00 V/m; Power Drift = -0.03 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 80.48 V/m
Average value of Total=(80.48+80.36)/2=80.42 V/m

PMF scaled E-field

Grid 1 **M3** **78.47 V/m**	Grid 2 **M3** **80.48 V/m**	Grid 3 **M3** **80.21 V/m**
Grid 4 **M3** **76.93 V/m**	Grid 5 **M3** **78.74 V/m**	Grid 6 **M3** **78.51 V/m**
Grid 7 **M3** **77.96 V/m**	Grid 8 **M3** **80.36 V/m**	Grid 9 **M3** **79.71 V/m**

Total = 80.48 V/m
E Category: M3
Location: -0.5, -14.5, 9.7 mm



0 dB = 80.48 V/m = 38.11 dBV/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2023/11/23

HAC_E_Dipole_5500

DUT: HAC Dipole 5500 MHz

Communication System: UID 0, CW (0); Frequency: 5500 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.3 ℃;

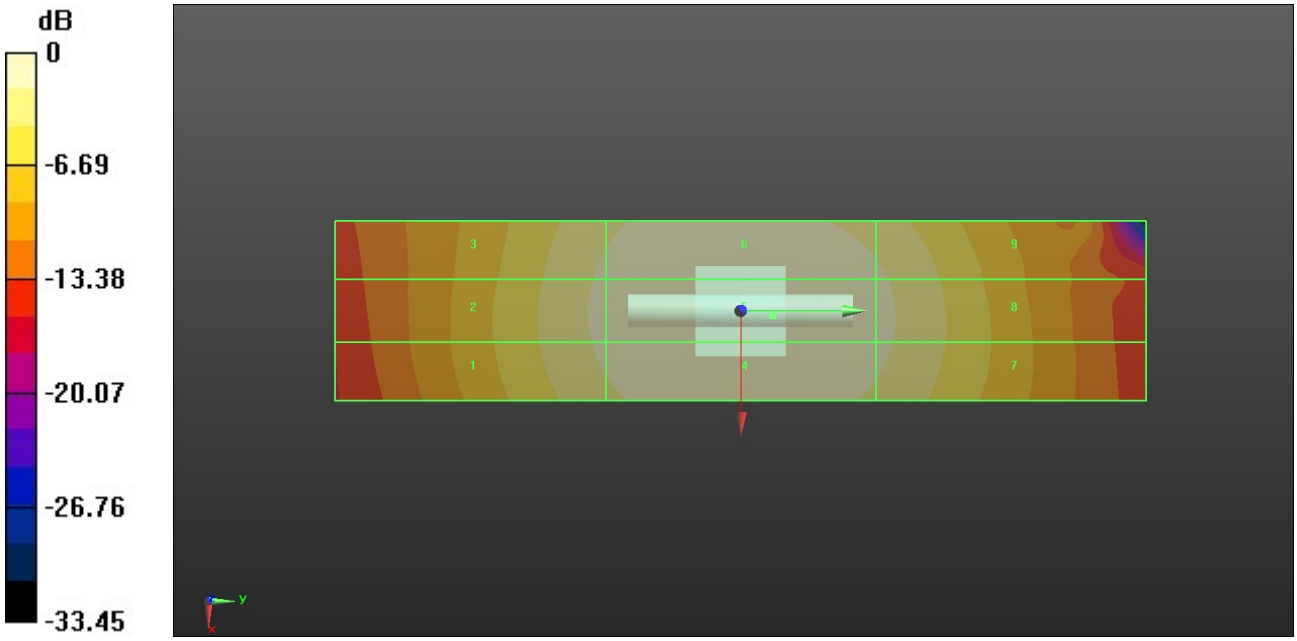
DASY5 Configuration:
- Probe: EF3DV3 - SN4050; ConvF(1, 1, 1); Calibrated: 2023/1/24
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1338; Calibrated: 2022/12/15
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

E Scan - measurement distance from the probe sensor center to CD5500 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm
Device Reference Point: 0, 0, -6.3 mm
Reference Value = 24.35 V/m; Power Drift = -0.01 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 100.1 V/m
Average value of Total=(98.38+97.36)/2=97.87 V/m

PMF scaled E-field

Grid 1 **M3** **81.74 V/m**	Grid 2 **M3** **83.63 V/m**	Grid 3 **M3** **81.59 V/m**
Grid 4 **M3** **98.38 V/m**	Grid 5 **M3** **100.1 V/m**	Grid 6 **M3** **97.36 V/m**
Grid 7 **M3** **82.66 V/m**	Grid 8 **M3** **83.80 V/m**	Grid 9 **M3** **81.18 V/m**

Total = 100.1 V/m
E Category: M3
Location: 0.5, 3.5, 8.7 mm



0 dB = 100.1 V/m = 40.01 dBV/m