Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/3/7

HAC_E_Dipole_835_110307

DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：22.4 ℃

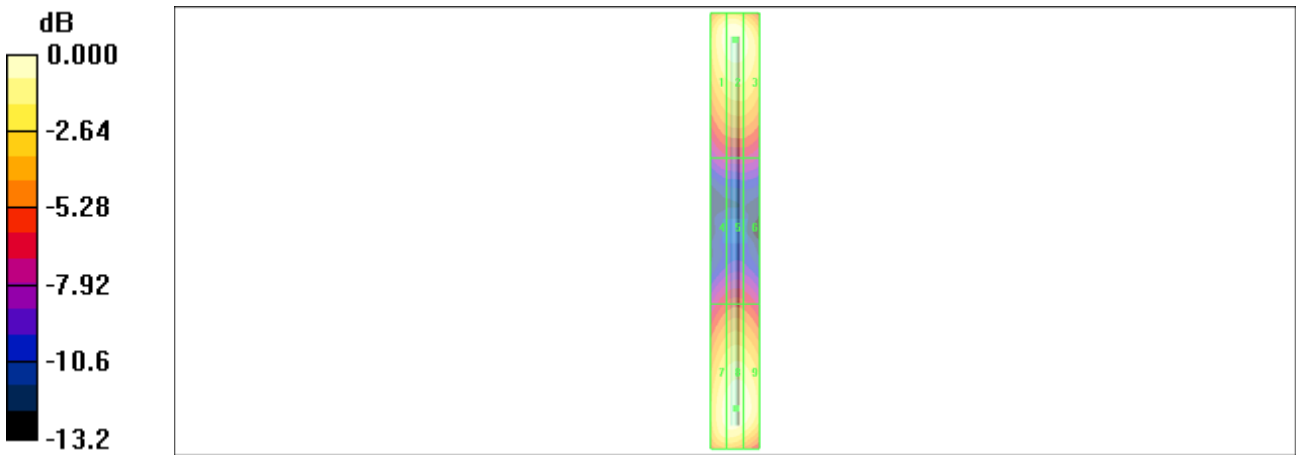
DASY4 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 121.0 V/m; Power Drift = 0.008 dB
Average Value of Total = (165.3 + 165.7) / 2 = 165.5 V/m

Peak E-field in V/m

Grid 1 **159.8 M4**	Grid 2 **165.3 M4**	Grid 3 **158.3 M4**
Grid 4 **83.6 M4**	Grid 5 **87.3 M4**	Grid 6 **85.0 M4**
Grid 7 **158.1 M4**	Grid 8 **165.7 M4**	Grid 9 **162.5 M4**

Cursor:
Total = 165.7 V/m
E Category: M4
Location: -0.5, 73.5, 4.7 mm



0 dB = 165.7V/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/3/26

HAC_E_Dipole_835_110326

DUT: Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：22.5 ℃

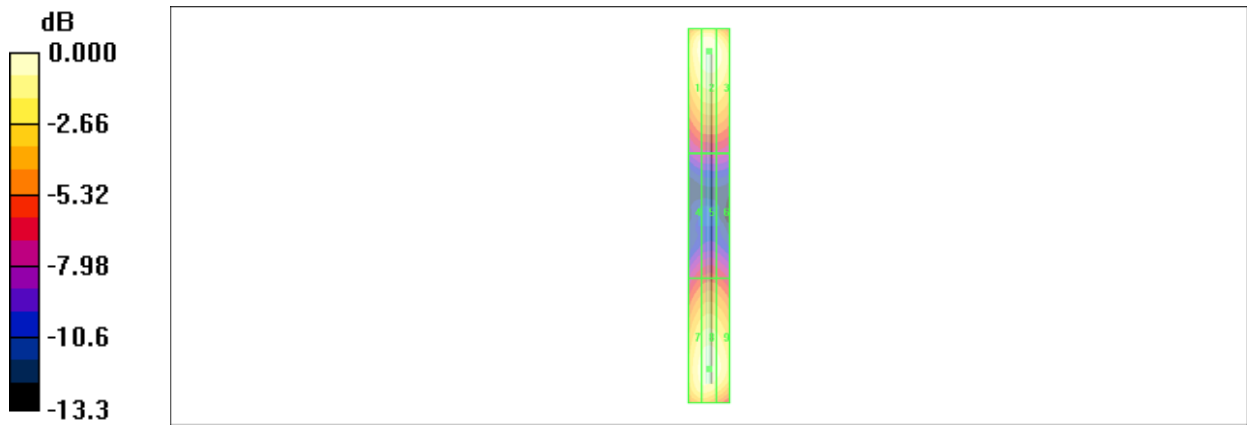
DASY4 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 181.9 V/m
Probe Modulation Factor = 1.00
Reference Value = 132.1 V/m; Power Drift = -0.035 dB
Average Value of Total = (181.9 + 178.2) / 2 = 180.05 V/m

Peak E-field in V/m

Grid 1 **175.9 M4**	Grid 2 **181.9 M4**	Grid 3 **176.4 M4**
Grid 4 **91.5 M4**	Grid 5 **95.0 M4**	Grid 6 **92.8 M4**
Grid 7 **172.7 M4**	Grid 8 **178.2 M4**	Grid 9 **172.7 M4**

Cursor:
Total = 181.9 V/m
E Category: M4
Location: 0, -79, 4.7 mm



0 dB = 181.9V/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/3/7

HAC_E_Dipole_1880_110307

DUT: HAC Dipole 1880 MHz

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：22.6 ℃

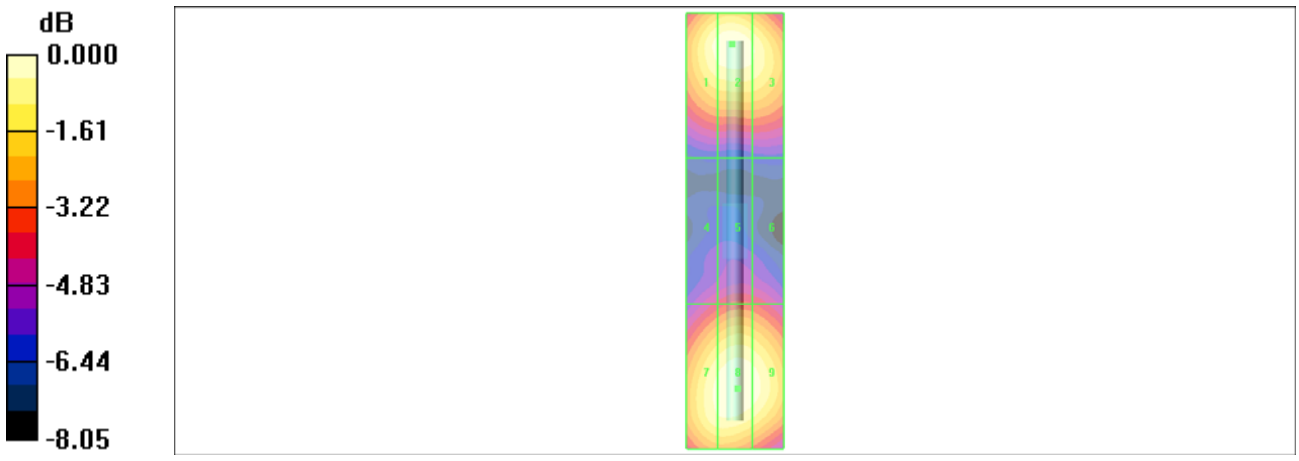
DASY4 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 138.3 V/m; Power Drift = 0.010 dB
Average Value of Total = (136.1 + 136.2) / 2 = 136.15 V/m

Peak E-field in V/m

Grid 1 **132.2 M2**	Grid 2 **136.1 M2**	Grid 3 **129.7 M2**
Grid 4 **85.0 M3**	Grid 5 **90.4 M3**	Grid 6 **88.7 M3**
Grid 7 **131.6 M2**	Grid 8 **136.2 M2**	Grid 9 **133.0 M2**

Cursor:
Total = 136.2 V/m
E Category: M2
Location: -0.5, 32.5, 4.7 mm



0 dB = 136.2V/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/3/26

HAC_E_Dipole_1880_110326

DUT: HAC Dipole 1880 MHz

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1000$ kg/m^3
Ambient Temperature：22.4 ℃

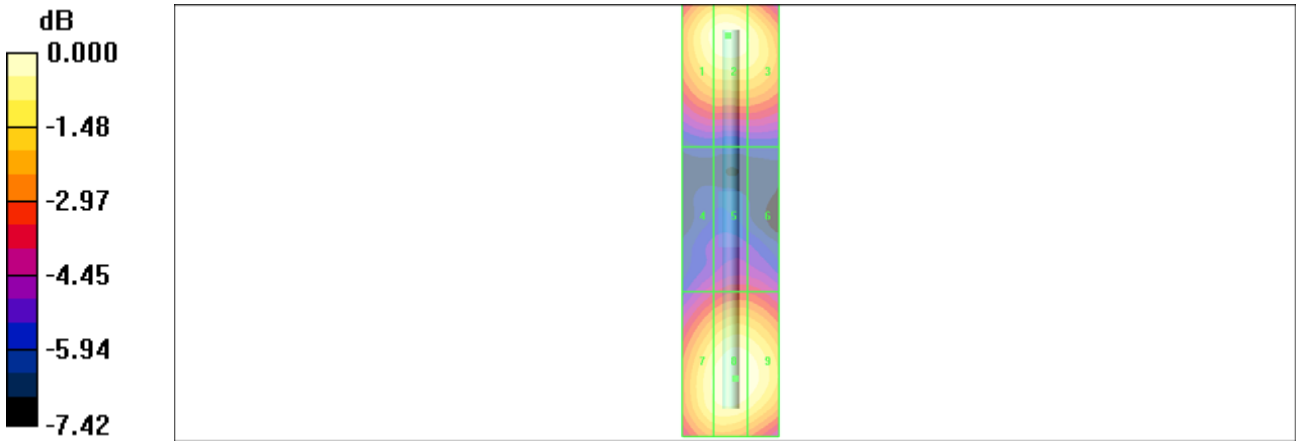
DASY4 Configuration:
- Probe: ER3DV6 - SN2358; ConvF(1, 1, 1); Calibrated: 2011/1/14
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 137.6 V/m
Probe Modulation Factor = 1.00
Reference Value = 142.2 V/m; Power Drift = -0.012 dB
Average Value of Total = (136.5 + 137.6) / 2 = 137.05 V/m

Peak E-field in V/m

Grid 1 **133.3 M2**	Grid 2 **136.5 M2**	Grid 3 **130.7 M2**
Grid 4 **86.5 M3**	Grid 5 **92.3 M3**	Grid 6 **91.8 M3**
Grid 7 **131.8 M2**	Grid 8 **137.6 M2**	Grid 9 **135.5 M2**

Cursor:
Total = 137.6 V/m
E Category: M2
Location: -1, 33, 4.7 mm



0 dB = 137.6V/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/3/27

HAC_H_Dipole_835_110327

DUT: HAC-Dipole 835 MHz

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

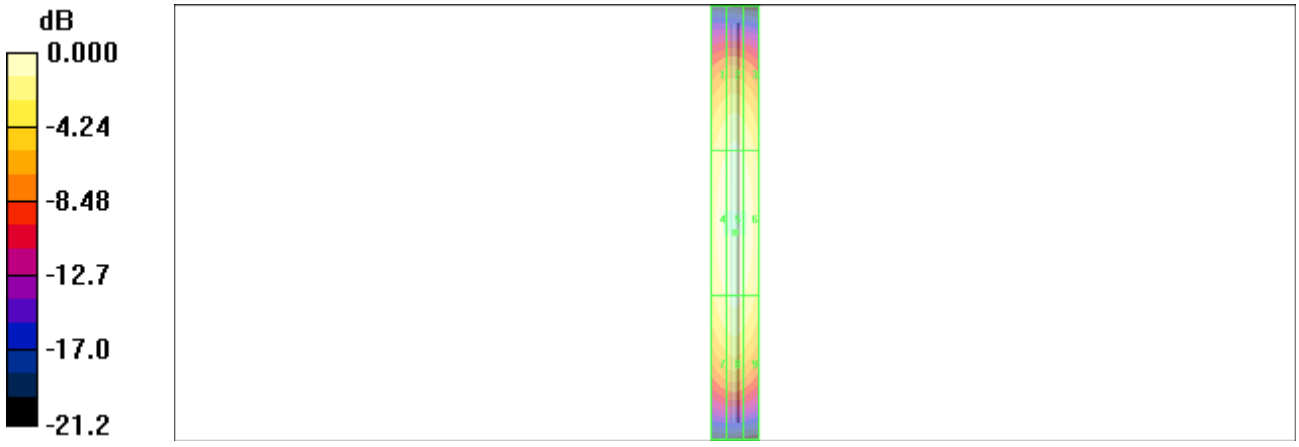
DASY4 Configuration:
- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 0.505 A/m; Power Drift = -0.012 dB
Maximum Value of Total = 0.456 A/m

Peak H-field in A/m

Grid 1 **0.387 M4**	Grid 2 **0.402 M4**	Grid 3 **0.384 M4**
Grid 4 **0.437 M4**	Grid 5 **0.456 M4**	Grid 6 **0.435 M4**
Grid 7 **0.392 M4**	Grid 8 **0.409 M4**	Grid 9 **0.388 M4**

Cursor:
Total = 0.456 A/m
H Category: M4
Location: 0, 4, 5.2 mm



0 dB = 0.456A/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/3/27

HAC_H_Dipole_1880_110327

DUT: HAC Dipole 1880 MHz

Communication System: CW; Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

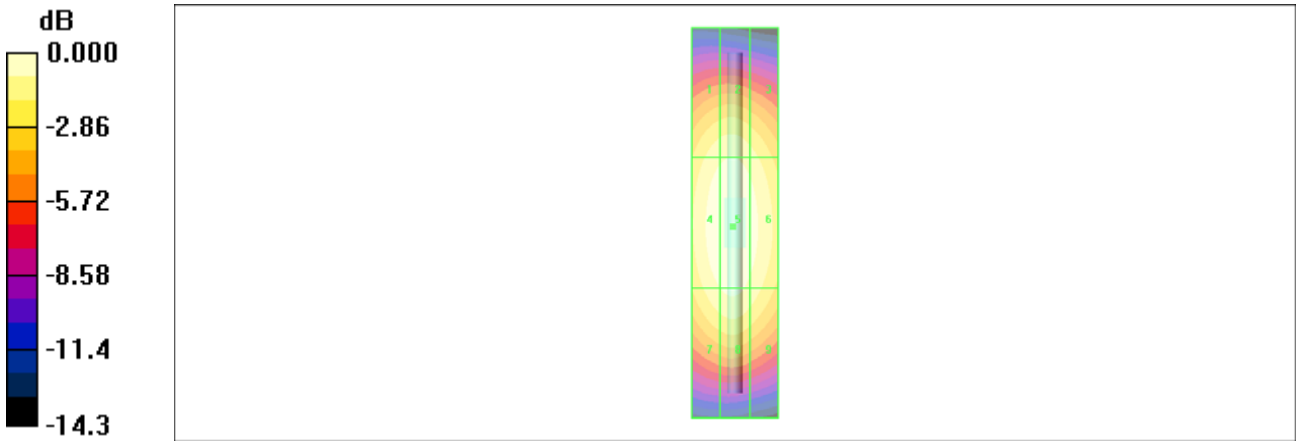
DASY4 Configuration:
- Probe: H3DV6 - SN6184; ; Calibrated: 2011/1/25
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn577; Calibrated: 2011/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Probe Modulation Factor = 1.00
Reference Value = 0.535 A/m; Power Drift = -0.012 dB
Maximum Value of Total = 0.488 A/m

Peak H-field in A/m

Grid 1 **0.428 M2**	Grid 2 **0.438 M2**	Grid 3 **0.413 M2**
Grid 4 **0.475 M2**	Grid 5 **0.488 M2**	Grid 6 **0.459 M2**
Grid 7 **0.436 M2**	Grid 8 **0.451 M2**	Grid 9 **0.422 M2**

Cursor:
Total = 0.488 A/m
H Category: M2
Location: 0.5, 1, 5.2 mm



0 dB = 0.488A/m