Validation E Field Probe SN2341, Dipole SN1020, 835MHz

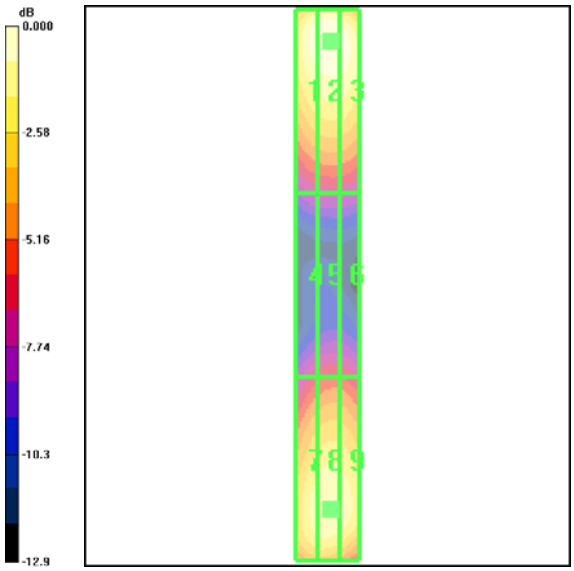
Date: 12/16/2010

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
Phantom: HAC Test Arch with AMCC,Phantom section: RF Section
DASY4 Configuration:
Probe: ER3DV6 - SN2341, ConvF(1, 1, 1), Calibrated: 7/12/2010
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn527,Calibrated: 7/8/2010
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

E Scan 835 - 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 = 169.5 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 175.1 V/m; Power Drift = 0.138 dB

Peak E-field in V/m

Grid 1 **163.5 M4**	Grid 2 **169.5 M4**	Grid 3 **167.4 M4**
Grid 4 **81.3 M4**	Grid 5 **86.2 M4**	Grid 6 **85.7 M4**
Grid 7 **147.7 M4**	Grid 8 **155.3 M4**	Grid 9 **152.9 M4**



0 dB = 169.5V/m

Validation H Field Probe SN6029, Dipole SN1020, 835MHz

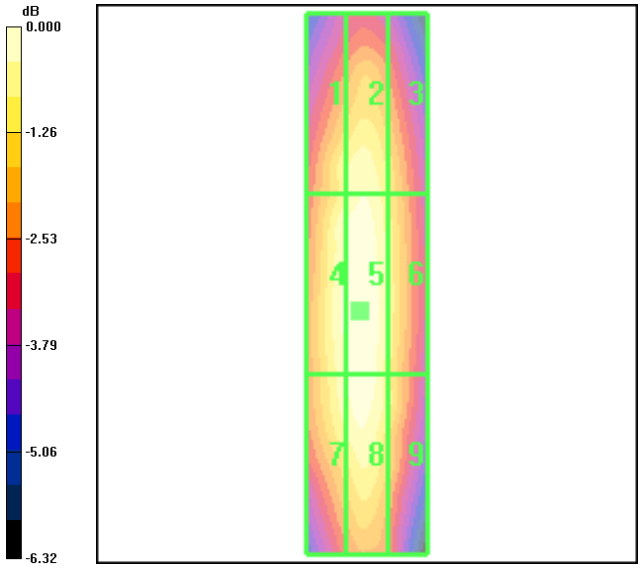
Date: 12/16/2010

Communication System: CW, Frequency: 835 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom: HAC Test Arch with AMCC,Phantom section: RF Section
DASY4 Configuration:
Probe: H3DV5 - SN6029, , Calibrated: 7/16/2010
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn527,Calibrated: 7/8/2010
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

H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
Maximum value of peak Total field = 0.479 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 0.516 A/m; Power Drift = -0.116 dB

Peak H-field in A/m

Grid 1 **0.433 M4**	Grid 2 **0.456 M4**	Grid 3 **0.418 M4**
Grid 4 **0.466 M4**	Grid 5 **0.479 M4**	Grid 6 **0.432 M4**
Grid 7 **0.456 M4**	Grid 8 **0.474 M4**	Grid 9 **0.426 M4**



0 dB = 0.479A/m

Validation E Field Probe SN2341, Dipole SN1015, 1900MHz

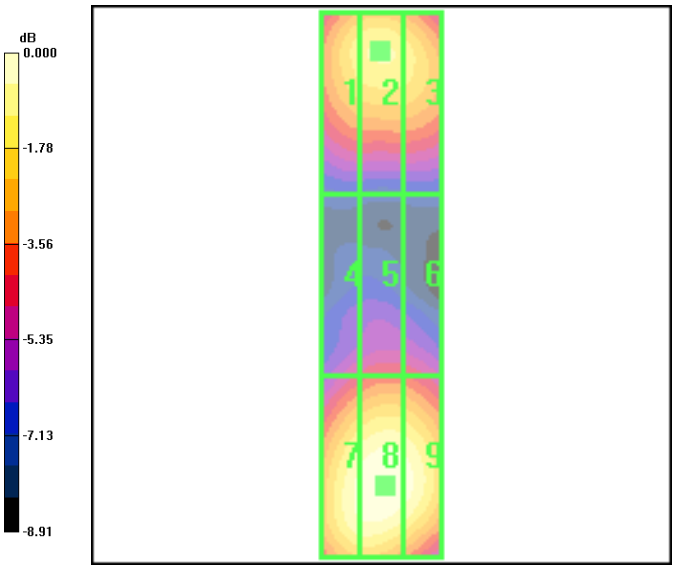
Date: 12/16/2010

Communication System: CW, Frequency: 1900 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1000 kg/m^3
Phantom: HAC Test Arch with AMCC,Phantom section: RF Section
DASY4 Configuration:
Probe: ER3DV6 - SN2341, ConvF(1, 1, 1), Calibrated: 7/12/2010
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn527,Calibrated: 7/8/2010
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

E Scan 1880 - 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 = 152.6 V/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 155.9 V/m; Power Drift = 0.096 dB

Peak E-field in V/m

Grid 1 **130.7 M2**	Grid 2 **135.5 M2**	Grid 3 **130.6 M2**
Grid 4 **91.0 M3**	Grid 5 **97.2 M3**	Grid 6 **95.7 M3**
Grid 7 **146.7 M2**	Grid 8 **152.6 M2**	Grid 9 **148.9 M2**



0 dB = 152.6V/m

Validation H Field Probe SN6029, Dipole SN1015, 1900MHz

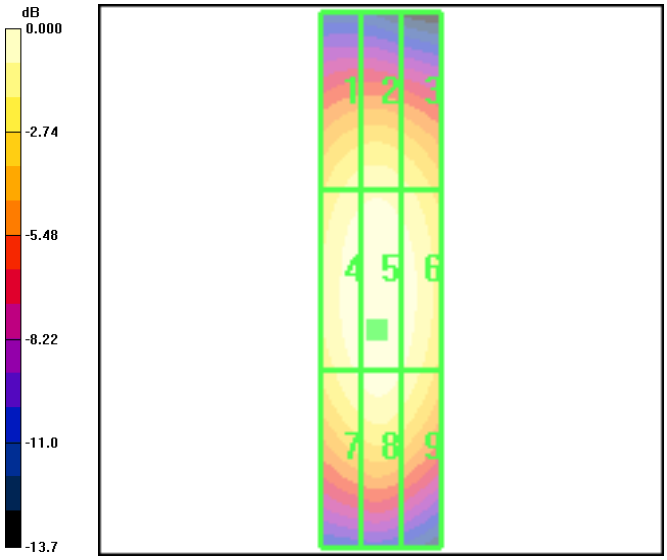
Date: 12/16/2010

Communication System: CW, Frequency: 1800 MHz, Duty Cycle: 1:1
Medium: Air,Medium parameters used: σ = 0 mho/m, ε_r = 1; ρ = 1 kg/m^3
Phantom: HAC Test Arch with AMCC,Phantom section: RF Section
DASY4 Configuration:
Probe: H3DV5 - SN6029, , Calibrated: 7/16/2010
Sensor-Surface: (Fix Surface),
Electronics: DAE4 Sn527,Calibrated: 7/8/2010
Measurement SW: DASY4, V4.7 Build 80
Postprocessing SW: SEMCAD, V1.8 Build 186
Temperature:
Room T = 21.8 $\pm$ 1 deg C, Liquid T = 22.0 $\pm$ 1 deg C

H 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 = 0.459 A/m
Probe Modulation Factor = 1.00
Device Reference Point: 0.000, 0.000, -6.30 mm
Reference Value = 0.552 A/m; Power Drift = 0.022 dB

Peak H-field in A/m

Grid 1 **0.398 M2**	Grid 2 **0.407 M2**	Grid 3 **0.389 M2**
Grid 4 **0.446 M2**	Grid 5 **0.459 M2**	Grid 6 **0.441 M2**
Grid 7 **0.424 M2**	Grid 8 **0.441 M2**	Grid 9 **0.416 M2**



0 dB = 0.459A/m