Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/7

#01 T-Coil_GSM850_Voice_Ch189_Battery1_Axial (Z)

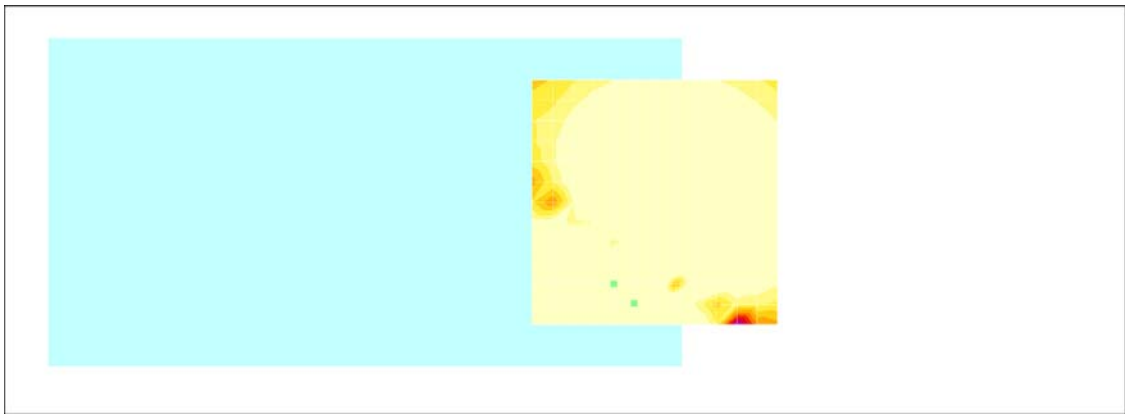
DUT: 11-2-422

Communication System: GSM850; Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

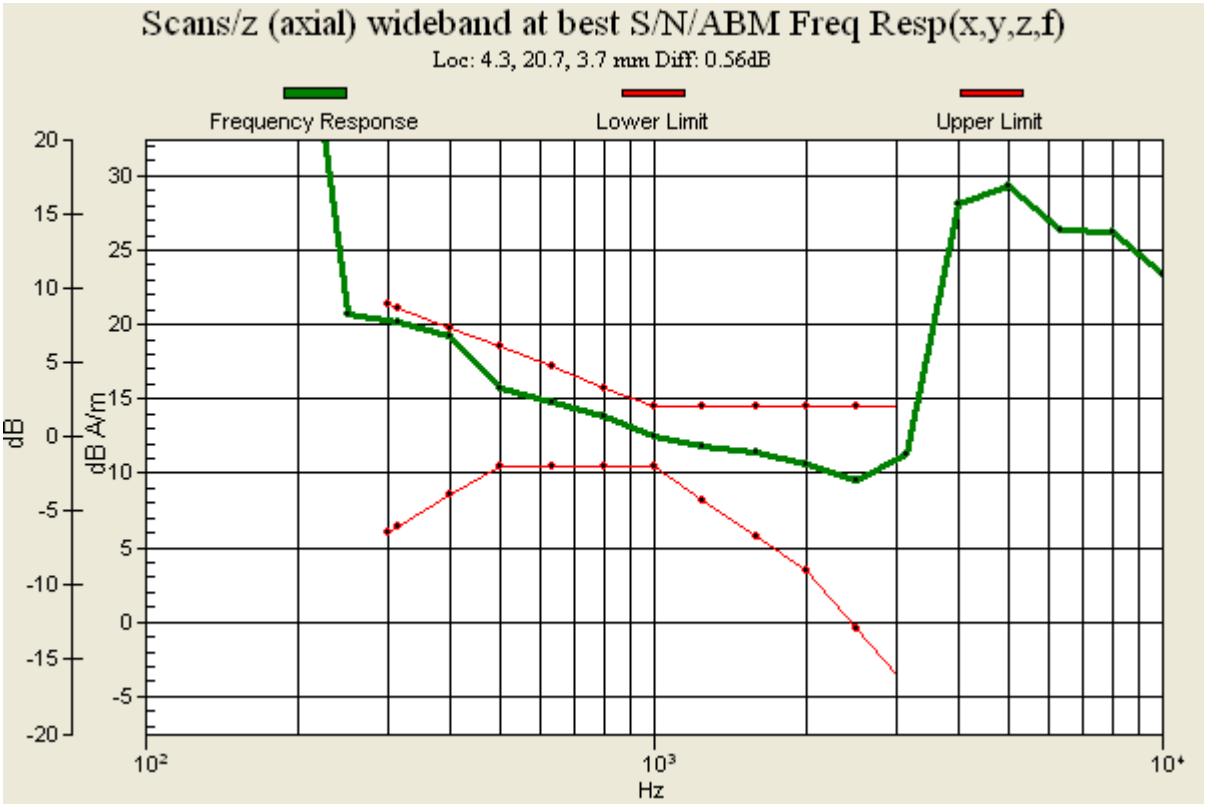
DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 30.5 dB
ABM1 comp = 17.2 dB A/m
Location: 4.3, 20.7, 3.7 mm



0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 20.7, 3.7 mm Diff: 0.56dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
30
25
20
15
10
5
0
-5
10^2
10^3
10^4

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/7

#01 T-Coil_GSM850_Voice_Ch189_Battery1_Radial 1 (X)

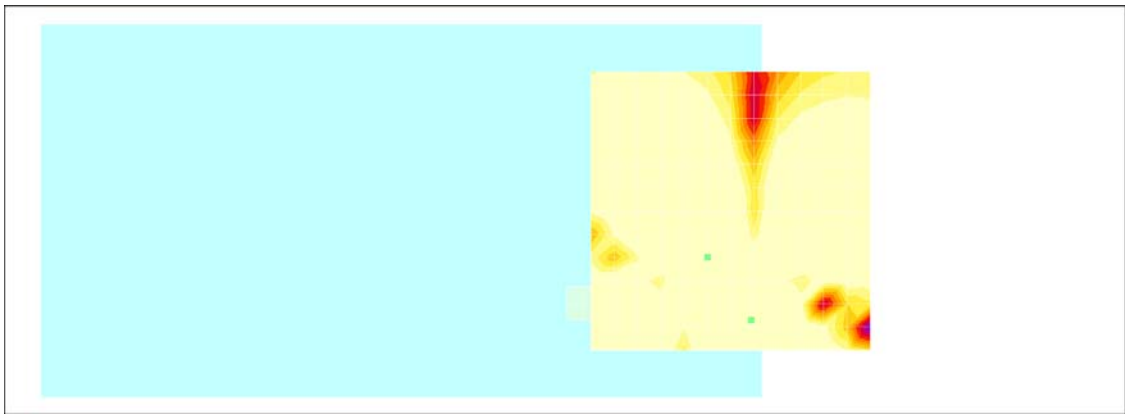
DUT: 11-2-422

Communication System: GSM850; Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 32.5 dB
ABM1 comp = 13.4 dB A/m
Location: -3.7, 19.7, 3.7 mm



0 dB = 1.00A/m

#01 T-Coil_GSM850_Voice_Ch189_Battery1_Radial 2 (Y)

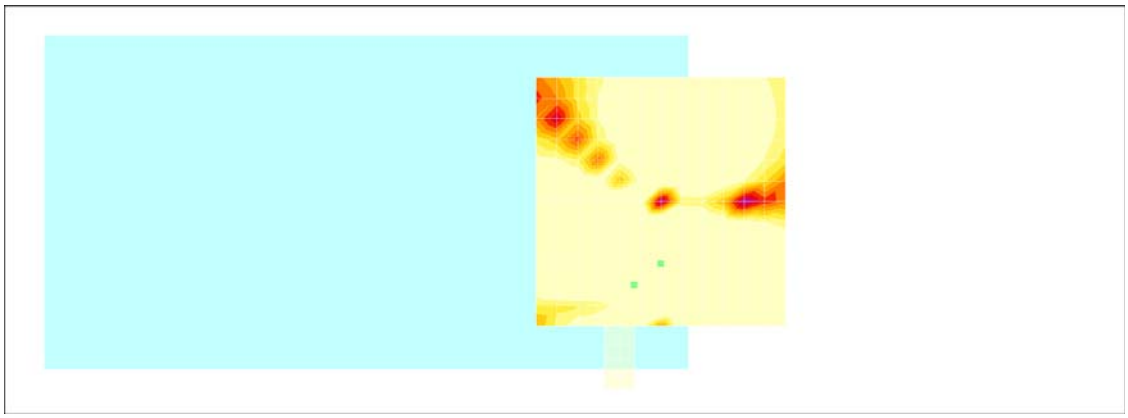
DUT: 11-2-422

Communication System: GSM850; Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 34.7 dB
ABM1 comp = 14.3 dB A/m
Location: 5.3, 16.7, 3.7 mm



0 dB = 1.00A/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/7

#02 T-Coil_GSM850_Voice_Ch128_Battery1_Axial (Z)

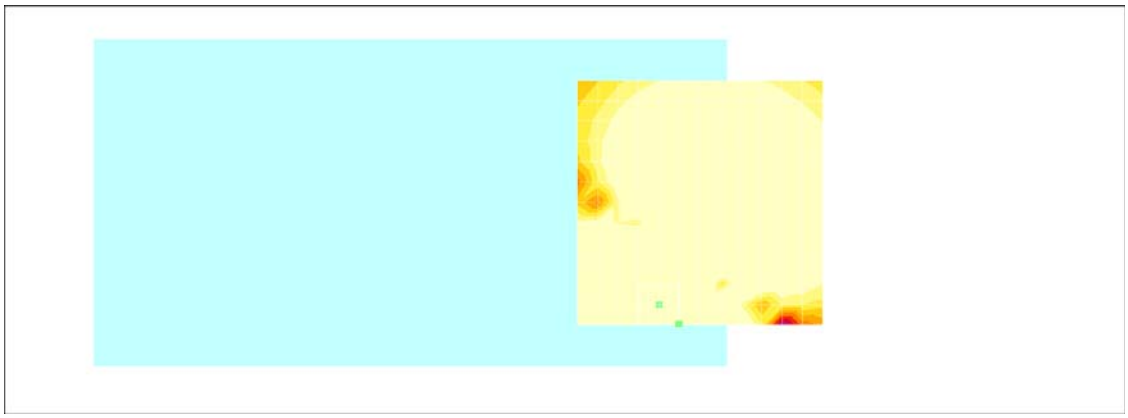
DUT: 11-2-422

Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

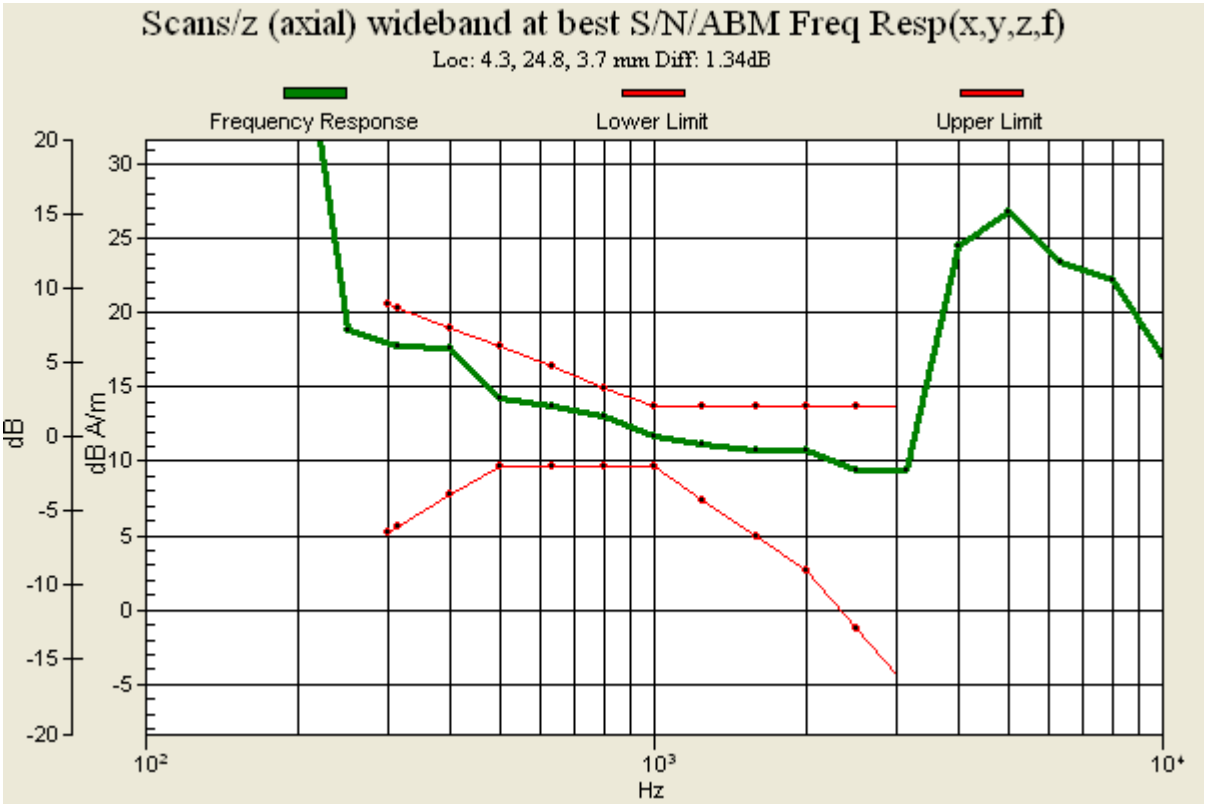
DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 30.8 dB
ABM1 comp = 16.0 dB A/m
Location: 4.3, 24.8, 3.7 mm



0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 24.8, 3.7 mm Diff: 1.34dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
30
25
20
15
10
5
0
-5
10^2
10^3
10^4

#02 T-Coil_GSM850_Voice_Ch128_Battery1_Radial 1 (X)

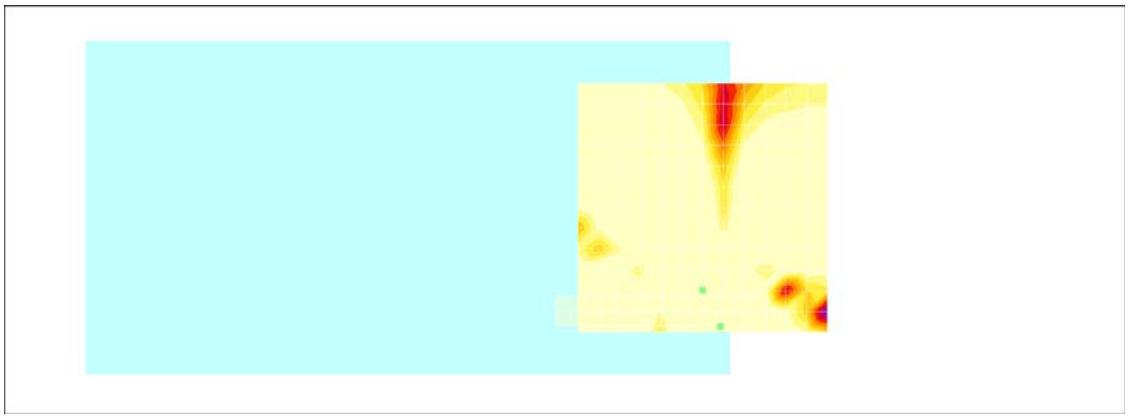
DUT: 11-2-422

Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 33.7 dB
ABM1 comp = 12.4 dB A/m
Location: -3.7, 23.8, 3.7 mm



0 dB = 1.00A/m

#02 T-Coil_GSM850_Voice_Ch128_Battery1_Radial 2 (Y)

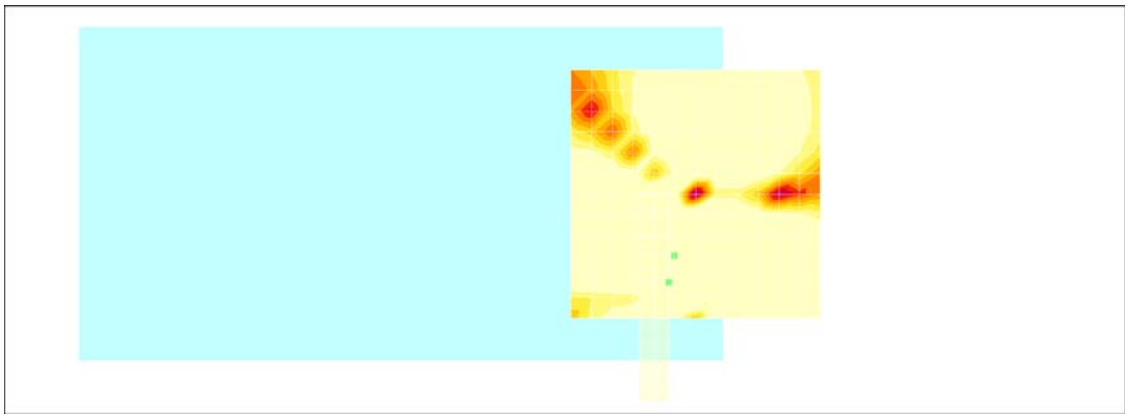
DUT: 11-2-422

Communication System: GSM850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 34.2 dB
ABM1 comp = 12.6 dB A/m
Location: 5.3, 17.8, 3.7 mm



0 dB = 1.00A/m

#03 T-Coil_GSM850_Voice_Ch251_Battery1_Axial (Z)

DUT: 11-2-422

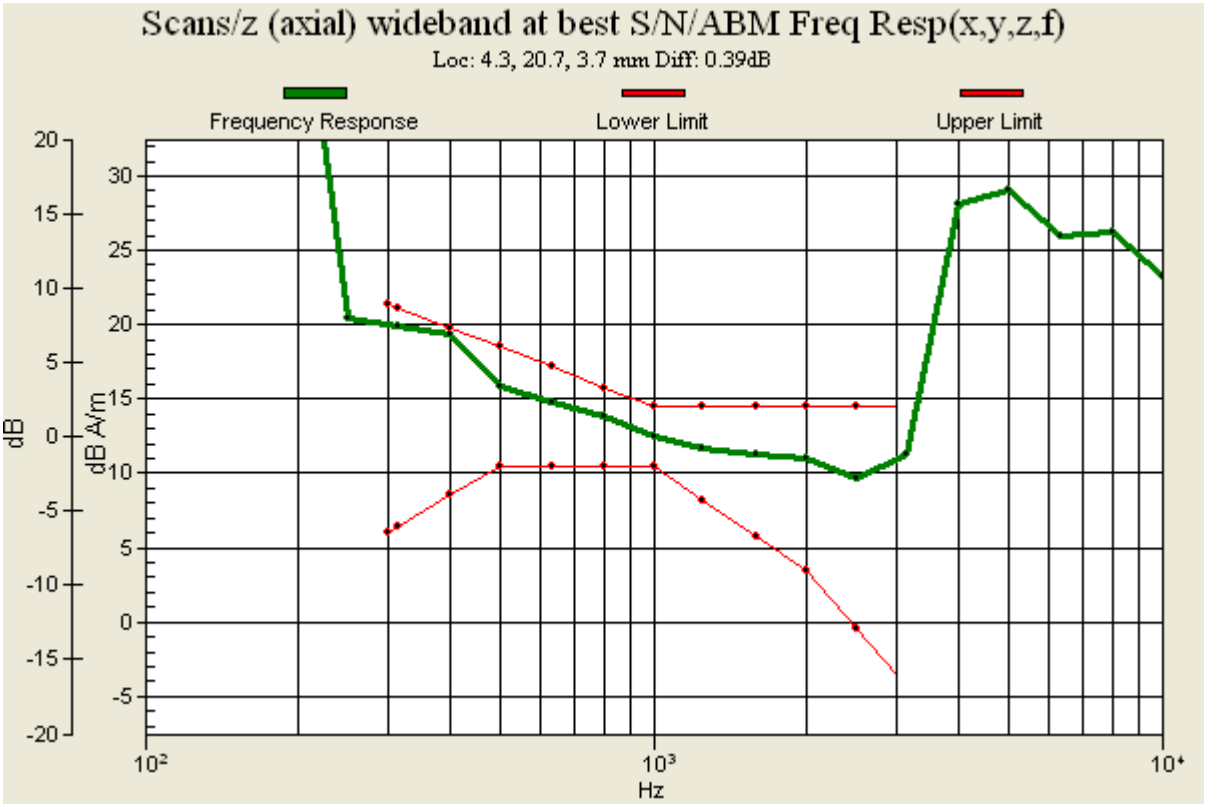
Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 28.7 dB
ABM1 comp = 16.9 dB A/m
Location: 4.3, 20.7, 3.7 mm

0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 20.7, 3.7 mm Diff: 0.39dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
30
25
20
15
10
5
0
-5
10^2
10^3
10^4

#03 T-Coil_GSM850_Voice_Ch251_Battery1_Radial 1 (X)

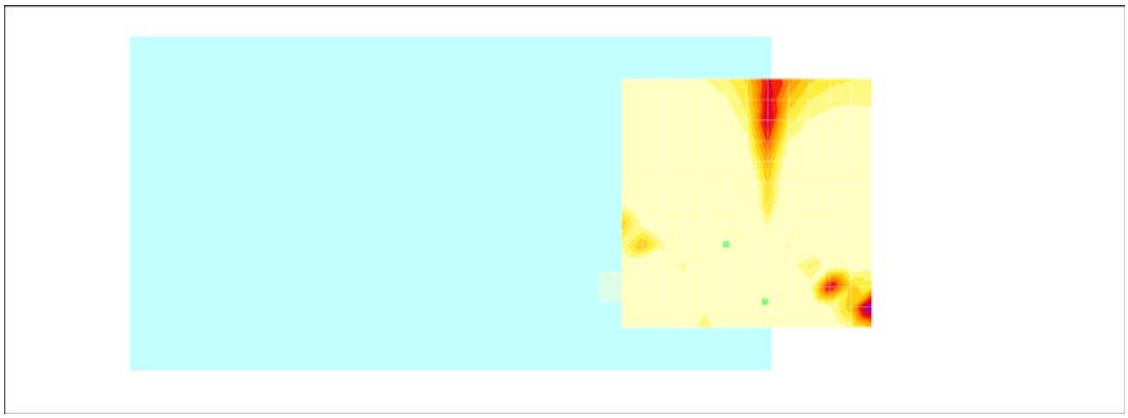
DUT: 11-2-422

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 31.7 dB
ABM1 comp = 13.0 dB A/m
Location: -3.7, 19.7, 3.7 mm



0 dB = 1.00A/m

#03 T-Coil_GSM850_Voice_Ch251_Battery1_Radial 2 (Y)

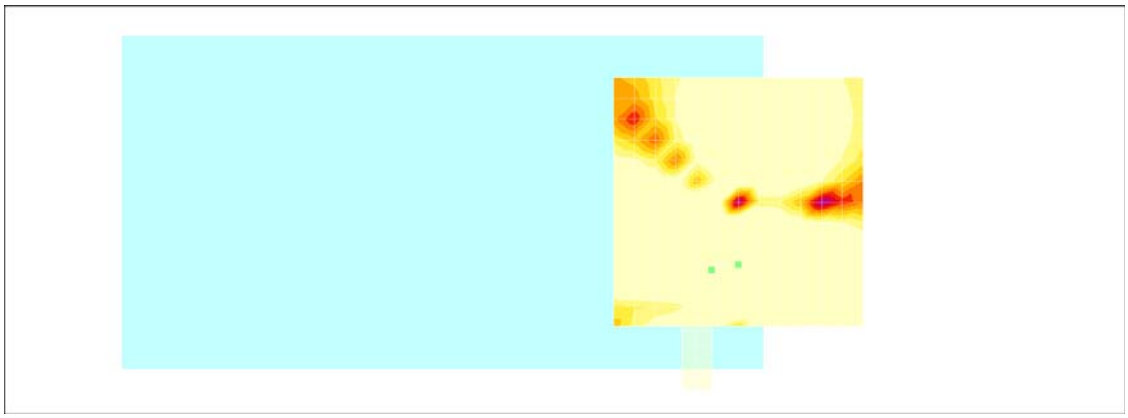
DUT: 11-2-422

Communication System: GSM850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 33.4 dB
ABM1 comp = 16.2 dB A/m
Location: 5.3, 13.7, 3.7 mm



0 dB = 1.00A/m

#05 T-Coil_GSM1900_Voice_Ch661_Battery1_Axial (Z)

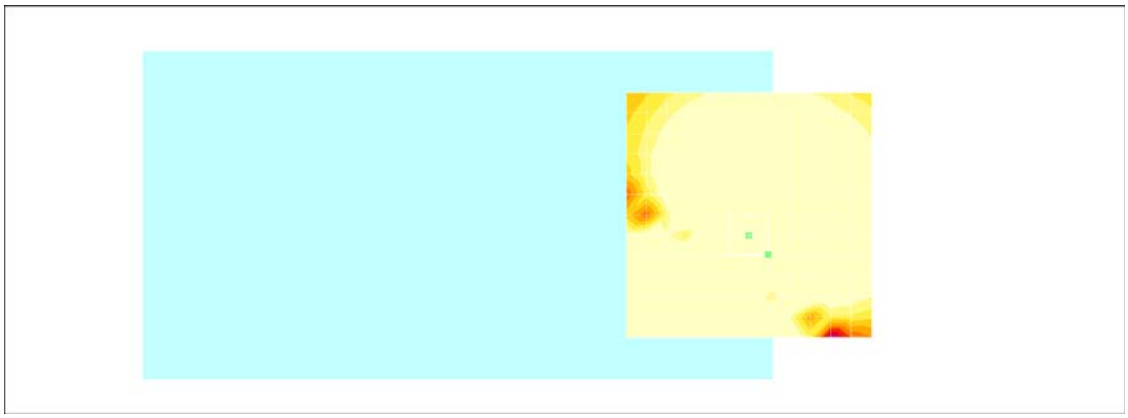
DUT: 11-2-422

Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

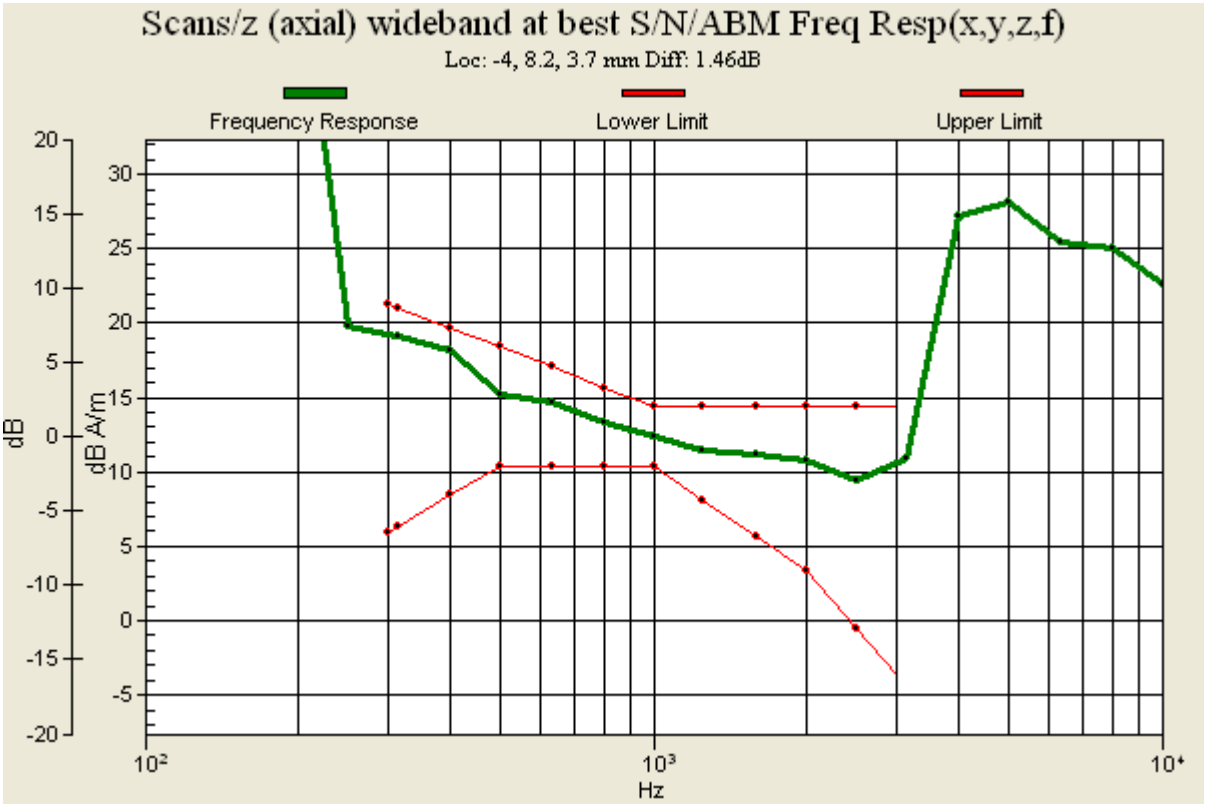
DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 32.2 dB
ABM1 comp = 16.7 dB A/m
Location: -4, 8.2, 3.7 mm



0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4, 8.2, 3.7 mm Diff: 1.46dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
10²
10³
10⁴

#05 T-Coil_GSM1900_Voice_Ch661_Battery1_Radial 1 (X)

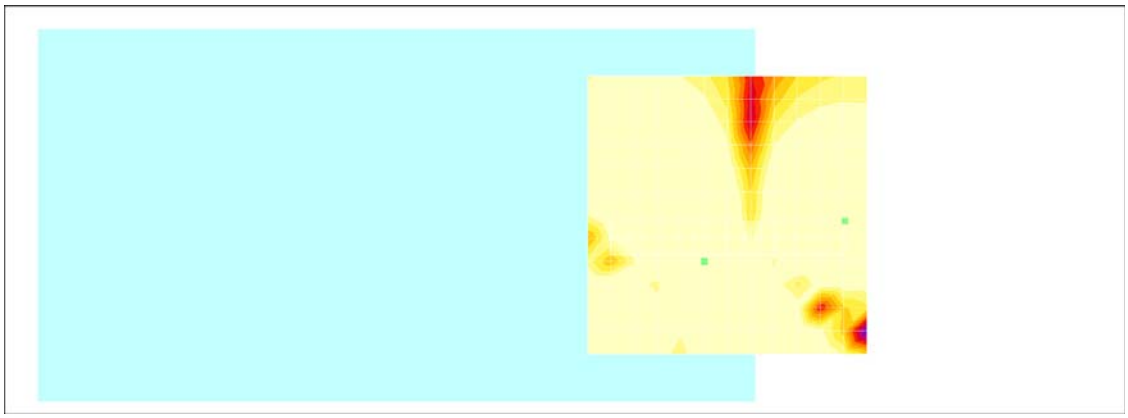
DUT: 11-2-422

Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 33.6 dB
ABM1 comp = 5.72 dB A/m
Location: -21, 1.2, 3.7 mm



0 dB = 1.00A/m

#05 T-Coil_GSM1900_Voice_Ch661_Battery1_Radial 2 (Y)

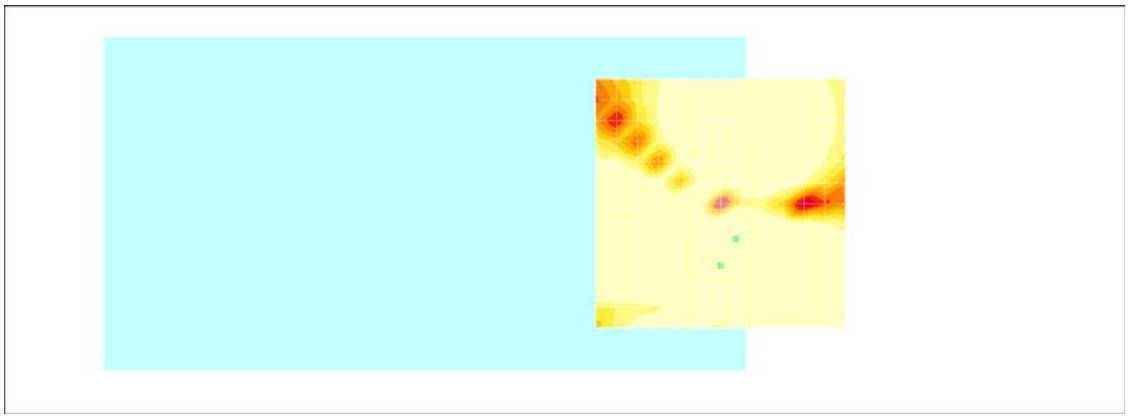
DUT: 11-2-422

Communication System: PCS; Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 35.9 dB
ABM1 comp = 13.1 dB A/m
Location: -3, 7.2, 3.7 mm



0 dB = 1.00A/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/7

#06 T-Coil_GSM1900_Voice_Ch512_Battery1_Axial (Z)

DUT: 11-2-422

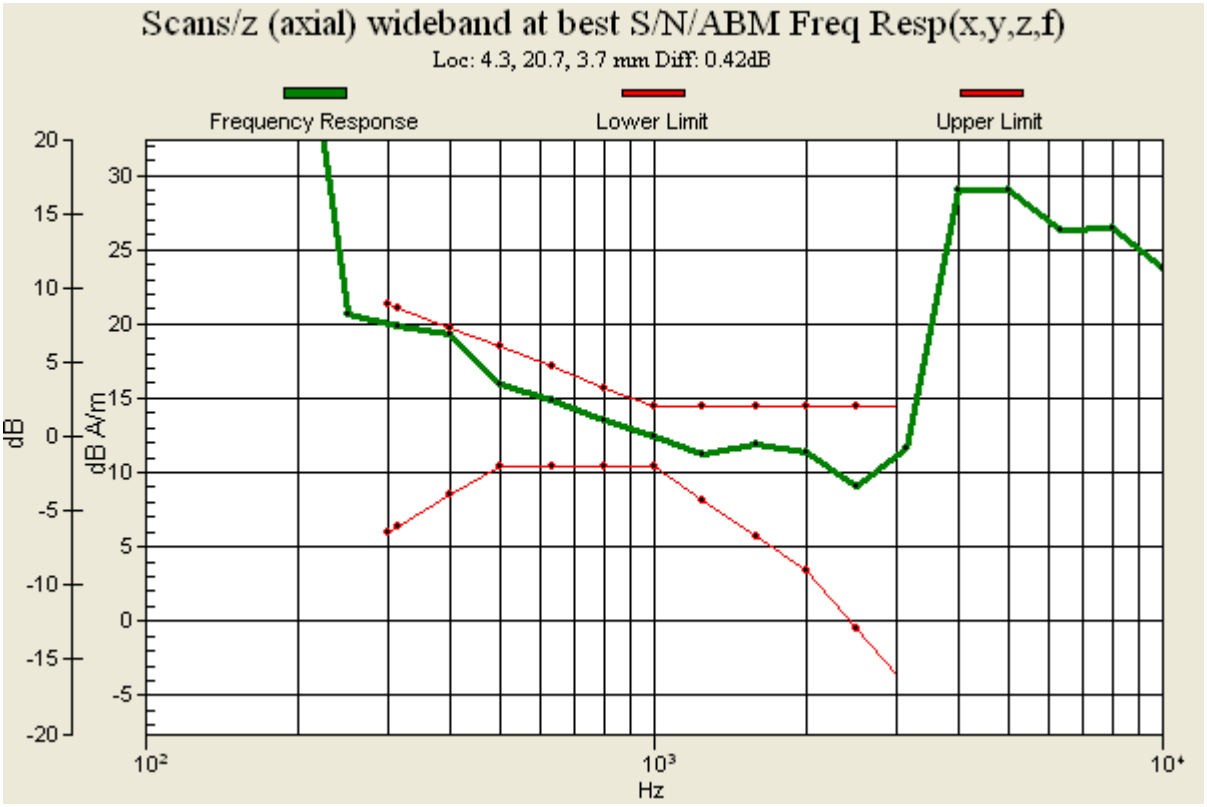
Communication System: PCS; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 31.0 dB
ABM1 comp = 17.2 dB A/m
Location: 4.3, 20.7, 3.7 mm

0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 20.7, 3.7 mm Diff: 0.42dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
30
25
20
15
10
5
0
-5
10^2
10^3
10^4

#06 T-Coil_GSM1900_Voice_Ch512_Battery1_Radial 1 (X)

DUT: 11-2-422

Communication System: PCS; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 34.2 dB
ABM1 comp = 13.8 dB A/m
Location: -0.7, 19.7, 3.7 mm

0 dB = 1.00A/m

#06 T-Coil_GSM1900_Voice_Ch512_Battery1_Radial 2 (Y)

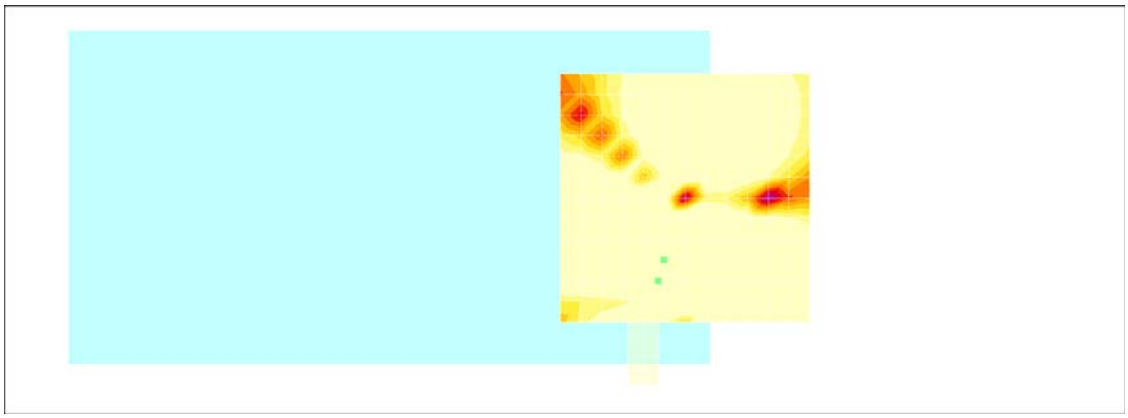
DUT: 11-2-422

Communication System: PCS; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 34.8 dB
ABM1 comp = 14.3 dB A/m
Location: 5.3, 16.7, 3.7 mm



0 dB = 1.00A/m

#07 T-Coil_GSM1900_Voice_Ch810_Battery1_Axial (Z)

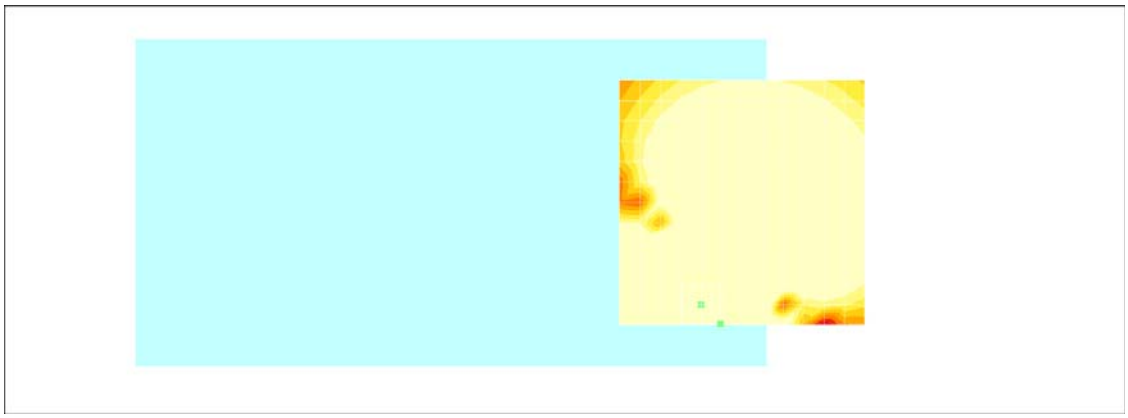
DUT: 11-2-422

Communication System: PCS; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

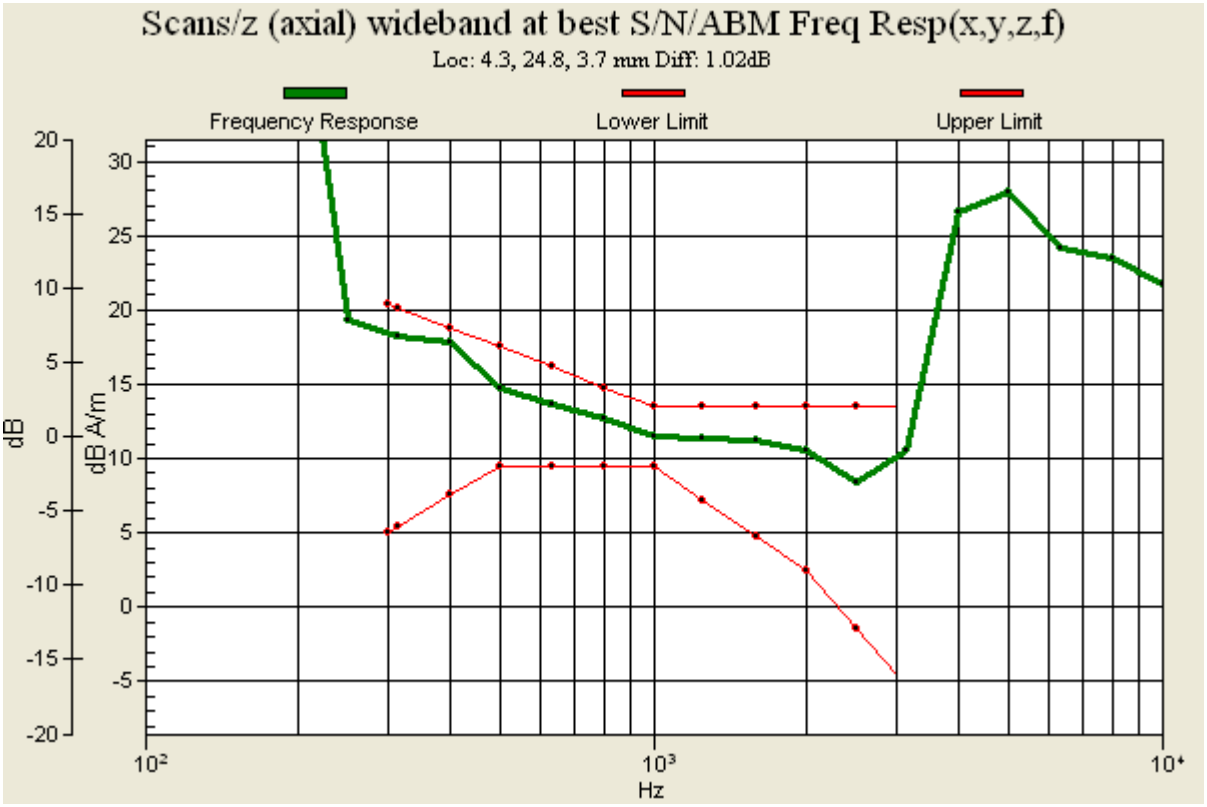
DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 32.7 dB
ABM1 comp = 16.1 dB A/m
Location: 4.3, 24.8, 3.7 mm



0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 24.8, 3.7 mm Diff: 1.02dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
30
25
20
15
10
5
0
-5
10^2
10^3
10^4

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/7

#07 T-Coil_GSM1900_Voice_Ch810_Battery1_Radial 1 (X)

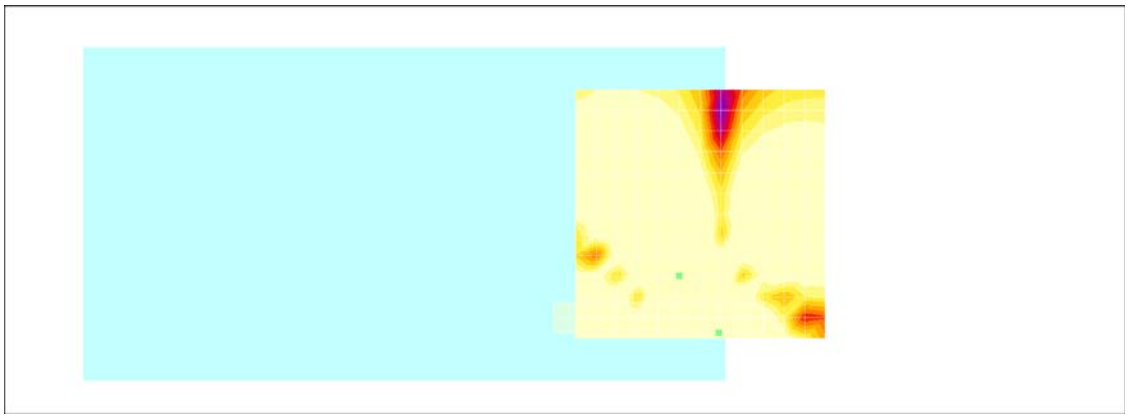
DUT: 11-2-422

Communication System: PCS; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 35.0 dB
ABM1 comp = 12.2 dB A/m
Location: -3.7, 23.8, 3.7 mm



0 dB = 1.00A/m

#07 T-Coil_GSM1900_Voice_Ch810_Battery1_Radial 2 (Y)

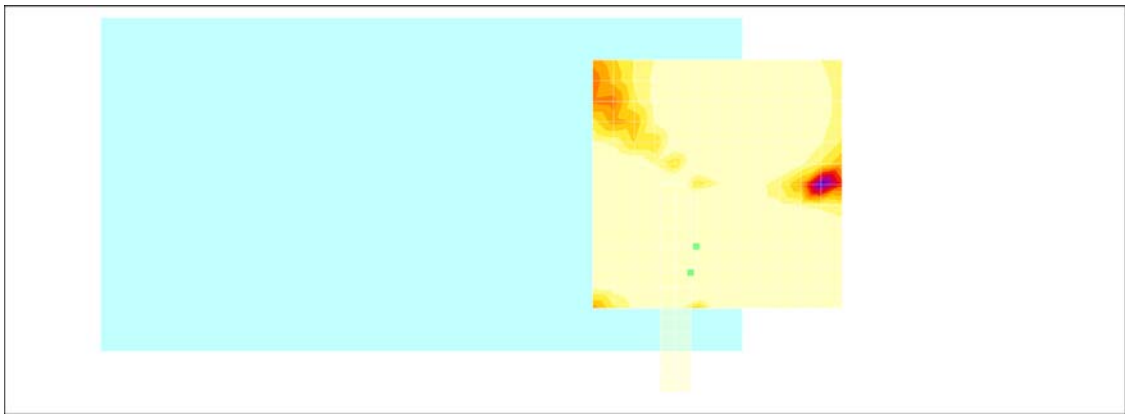
DUT: 11-2-422

Communication System: PCS; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 34.9 dB
ABM1 comp = 14.2 dB A/m
Location: 5.3, 17.8, 3.7 mm



0 dB = 1.00A/m

#09 T-Coil_WCDMA V_Voice_Ch4182_Battery1_Axial (Z)

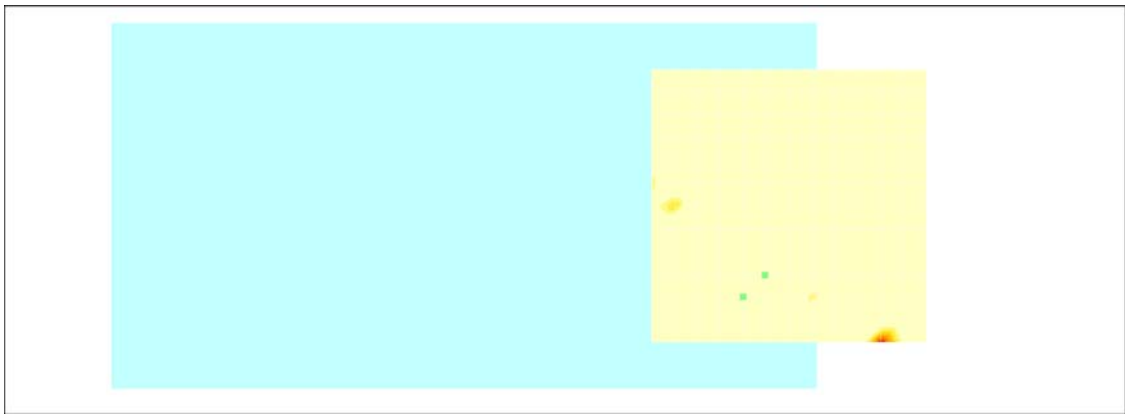
DUT: 11-2-422

Communication System: WCDMA; Frequency: 836.4 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 ℃

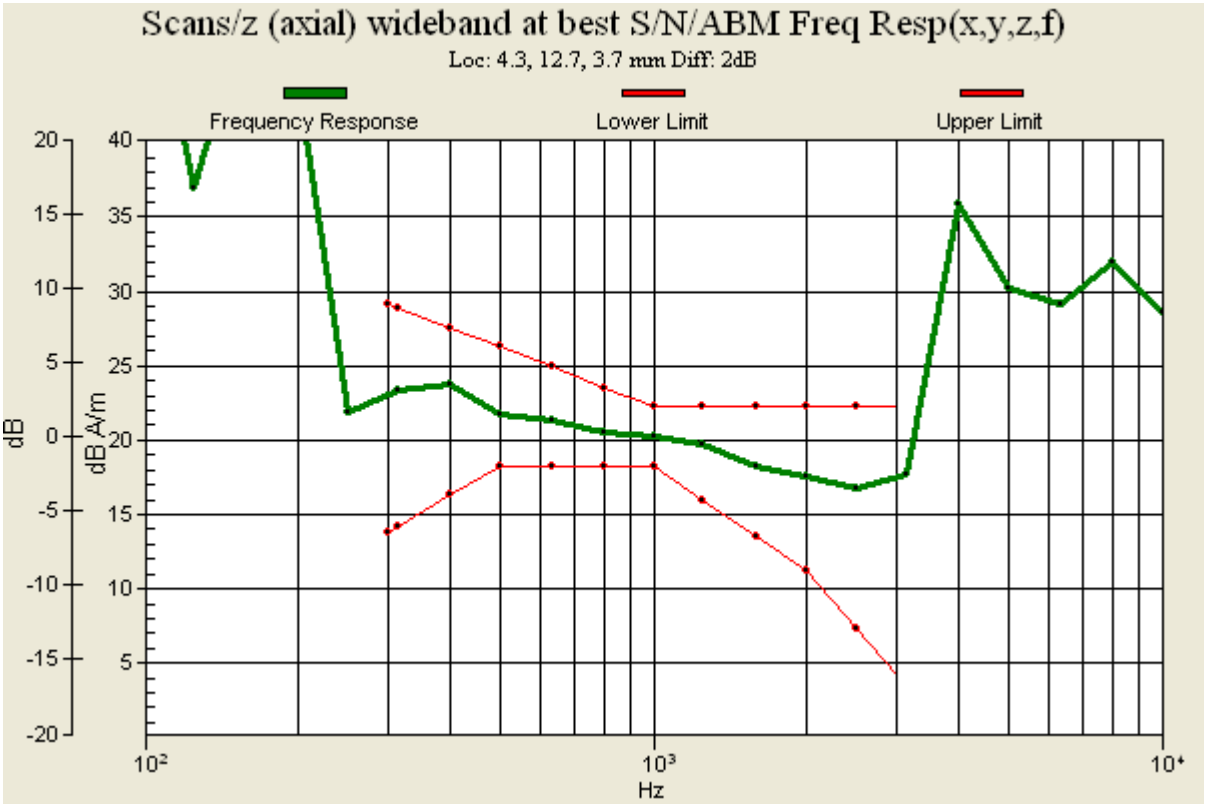
DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 37.8 dB
ABM1 comp = 24.4 dB A/m
Location: 4.3, 12.7, 3.7 mm



0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 12.7, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
40
35
30
25
20
15
10
5
10^2
10^3
10^4

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/7

#09 T-Coil_WCDMA V_Voice_Ch4182_Battery1_Radial 1 (X)

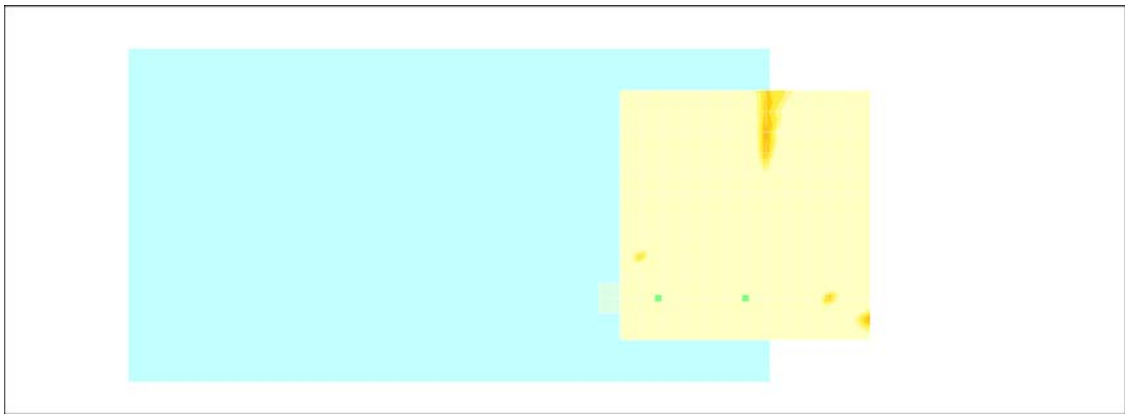
DUT: 11-2-422

Communication System: WCDMA; Frequency: 836.4 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 39.2 dB
ABM1 comp = 18.5 dB A/m
Location: 17.3, 16.7, 3.7 mm



0 dB = 1.00A/m

#09 T-Coil_WCDMA V_Voice_Ch4182_Battery1_Radial 2 (Y)

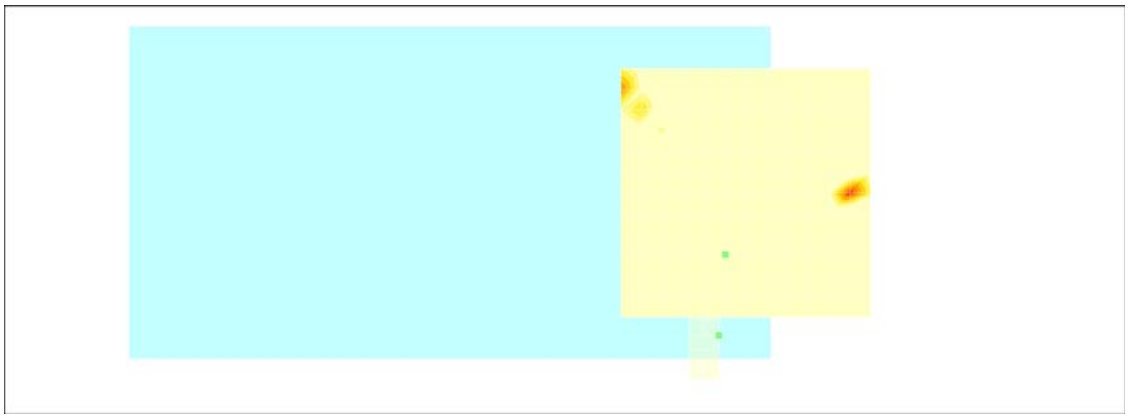
DUT: 11-2-422

Communication System: WCDMA; Frequency: 836.4 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 38.4 dB
ABM1 comp = 18.8 dB A/m
Location: 5.3, 28.7, 3.7 mm



0 dB = 1.00A/m

#10 T-Coil_WCDMA V_Voice_Ch4132_Battery1_Axial (Z)

DUT: 11-2-422

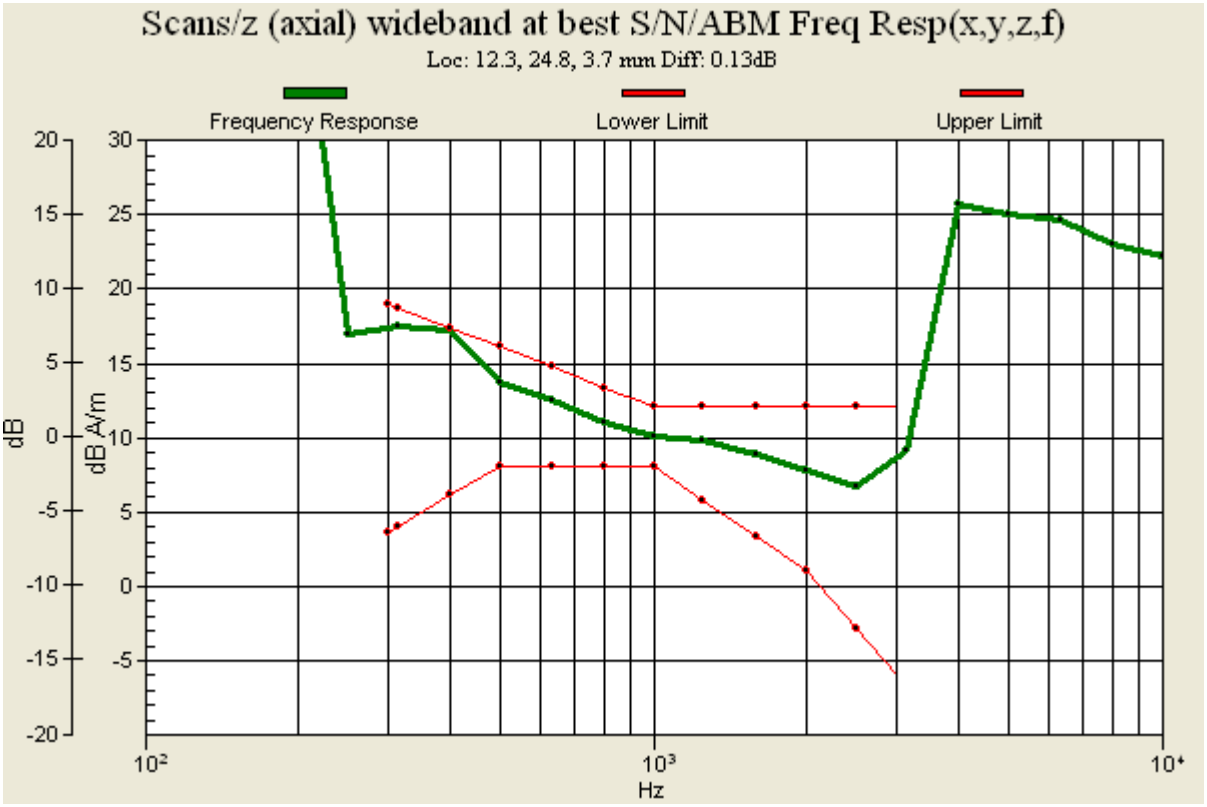
Communication System: WCDMA; Frequency: 826.4 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 36.8 dB
ABM1 comp = 16.0 dB A/m
Location: 12.3, 24.8, 3.7 mm

0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 12.3, 24.8, 3.7 mm Diff: 0.13dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
20
15
10
5
0
-5
-10
-15
-20
30
25
20
15
10
5
0
-5
10^2
10^3
10^4
Hz

#10 T-Coil_WCDMA V_Voice_Ch4132_Battery1_Radial 1 (X)

DUT: 11-2-422

Communication System: WCDMA; Frequency: 826.4 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 38.8 dB
ABM1 comp = 11.1 dB A/m
Location: -6.7, 17.8, 3.7 mm

0 dB = 1.00A/m

#10 T-Coil_WCDMA V_Voice_Ch4132_Battery1_Radial 2 (Y)

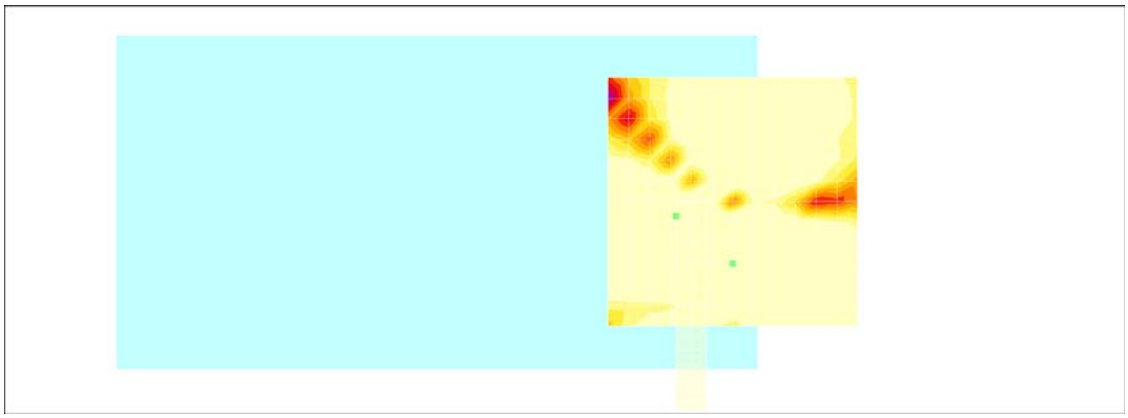
DUT: 11-2-422

Communication System: WCDMA; Frequency: 826.4 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 38.1 dB
ABM1 comp = 12.7 dB A/m
Location: 11.3, 2.8, 3.7 mm



0 dB = 1.00A/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/8

#11 T-Coil_WCDMA V_Voice_Ch4233_Battery1_Axial (Z)

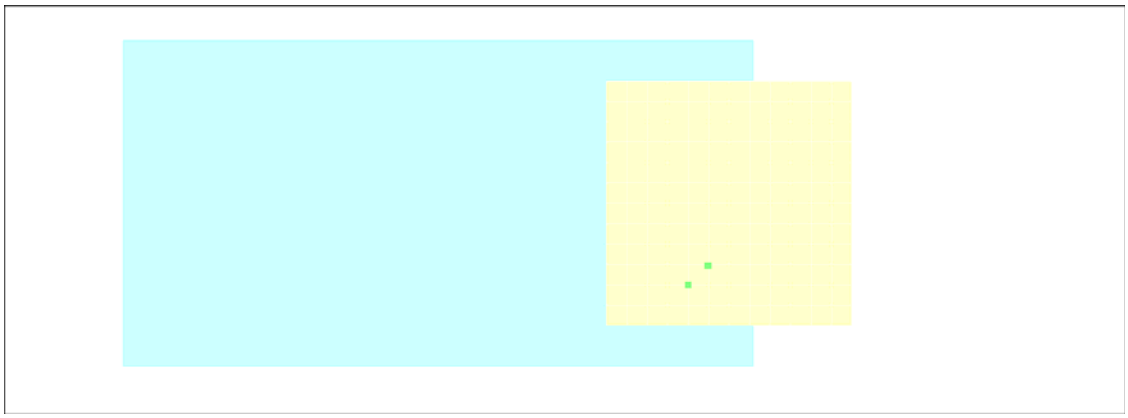
DUT: 11-2-422

Communication System: WCDMA; Frequency: 826.4 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 ℃

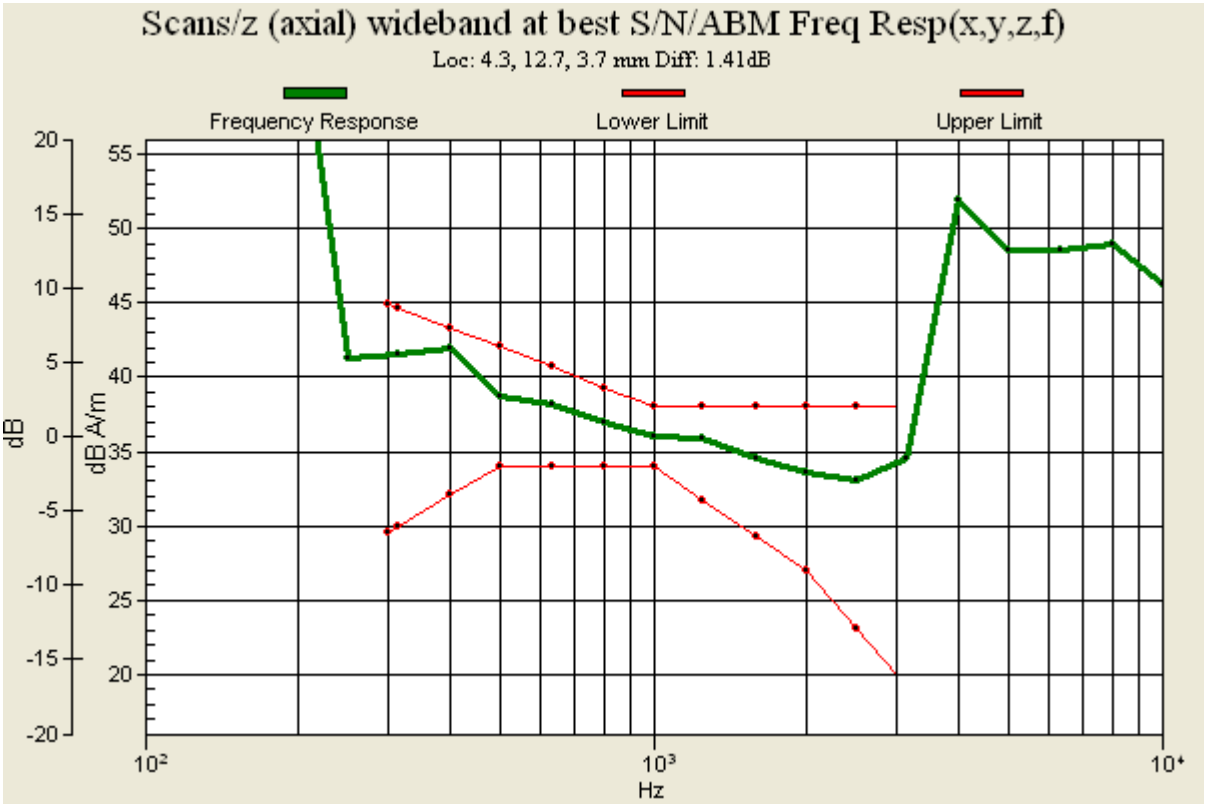
DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 36.9 dB
ABM1 comp = 40.9 dB A/m
Location: 4.3, 12.7, 3.7 mm



0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 12.7, 3.7 mm Diff: 1.41dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
55
50
45
40
35
30
25
20
10²
10³
10⁴

#11 T-Coil_WCDMA V_Voice_Ch4233_Battery1_Radial 1 (X)

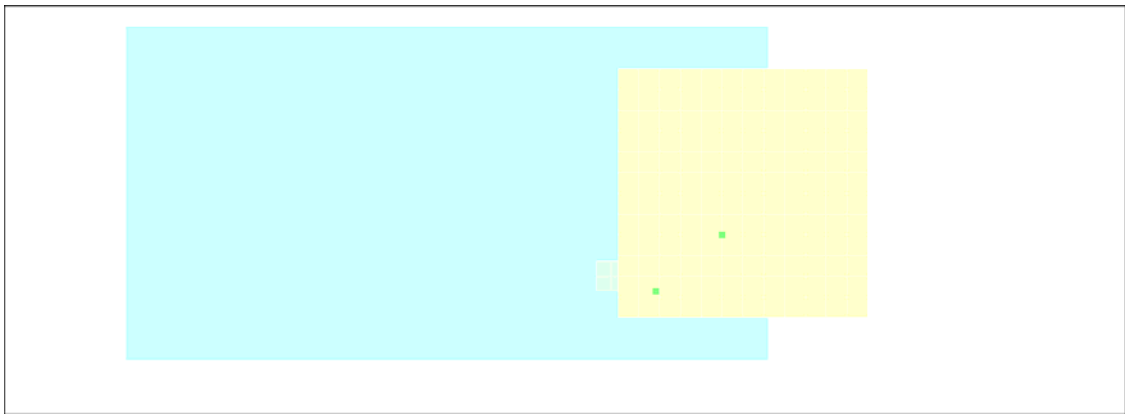
DUT: 11-2-422

Communication System: WCDMA; Frequency: 826.4 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 39.1 dB
ABM1 comp = 35.6 dB A/m
Location: 17.3, 19.7, 3.7 mm



0 dB = 1.00A/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/8

#11 T-Coil_WCDMA V_Voice_Ch4233_Battery1_Radial 2 (Y)

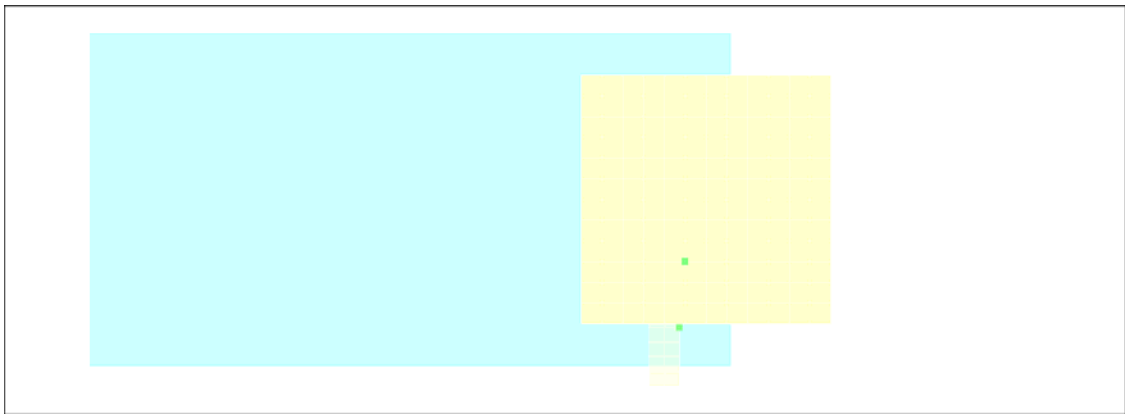
DUT: 11-2-422

Communication System: WCDMA; Frequency: 826.4 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 38.6 dB
ABM1 comp = 30.7 dB A/m
Location: 5.3, 25.7, 3.7 mm



0 dB = 1.00A/m

#13 T-Coil_WCDMA II_Voice_Ch9400_Battery1_Axial (Z)

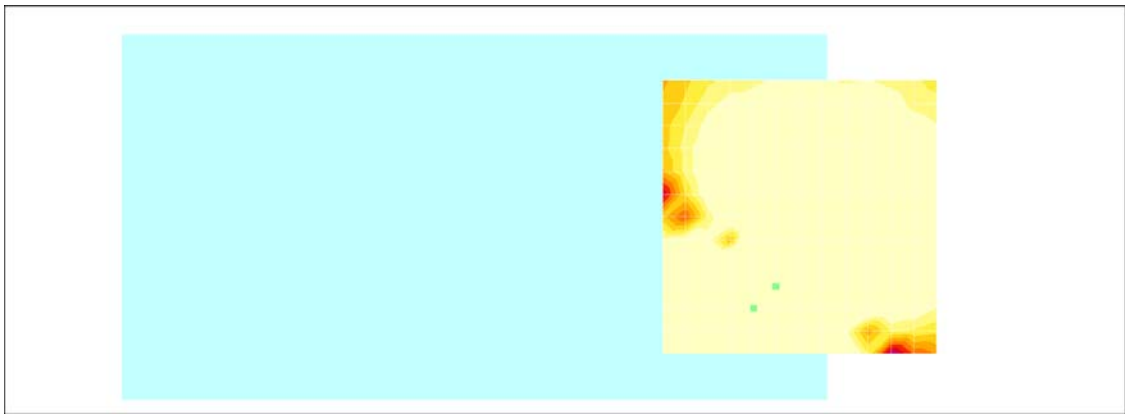
DUT: 11-2-422

Communication System: WCDMA; 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 ℃

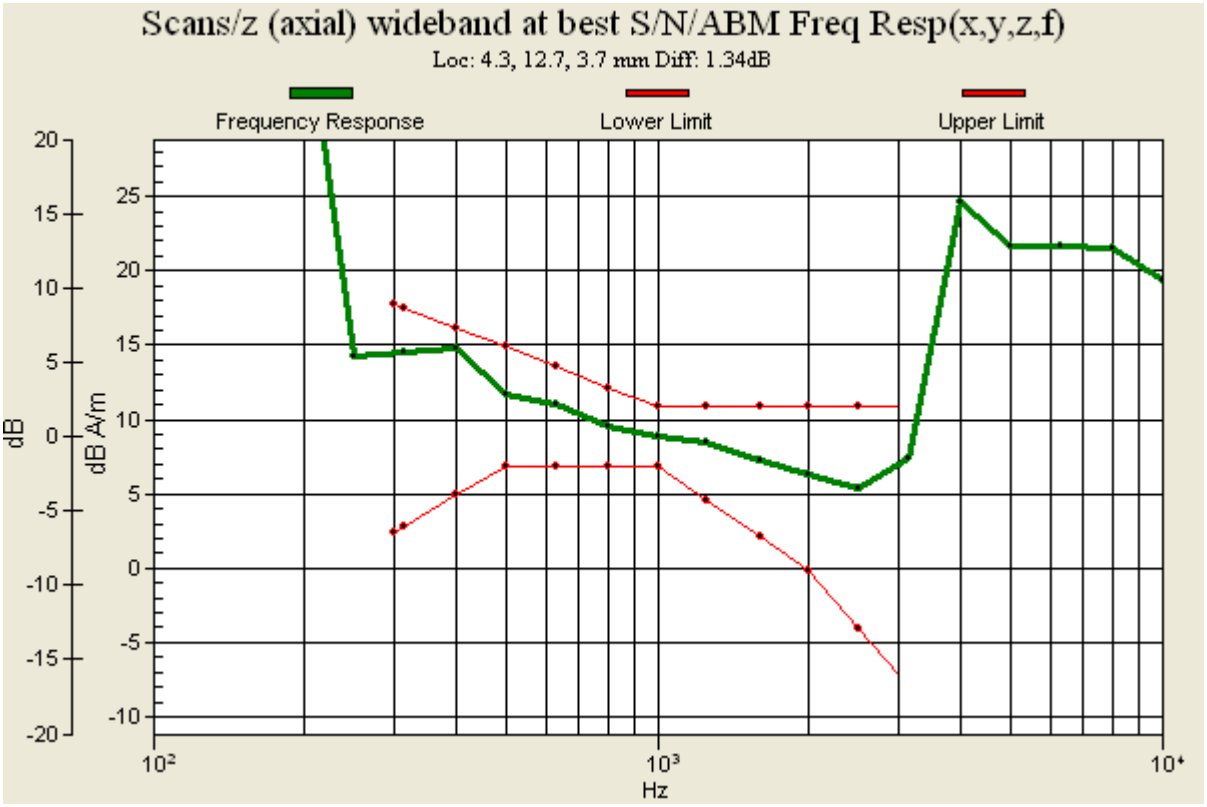
DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 37.2 dB
ABM1 comp = 14.1 dB A/m
Location: 4.3, 12.7, 3.7 mm



0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 12.7, 3.7 mm Diff: 1.34dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
25
20
15
10
5
0
-5
-10
10^2
10^3
10^4

#13 T-Coil_WCDMA II_Voice_Ch9400_Battery1_Radial 1 (X)

DUT: 11-2-422

Communication System: WCDMA; 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 39.8 dB
ABM1 comp = 3.94 dB A/m
Location: -12.7, 19.7, 3.7 mm

0 dB = 1.00A/m

#13 T-Coil_WCDMA II_Voice_Ch9400_Battery1_Radial 2 (Y)

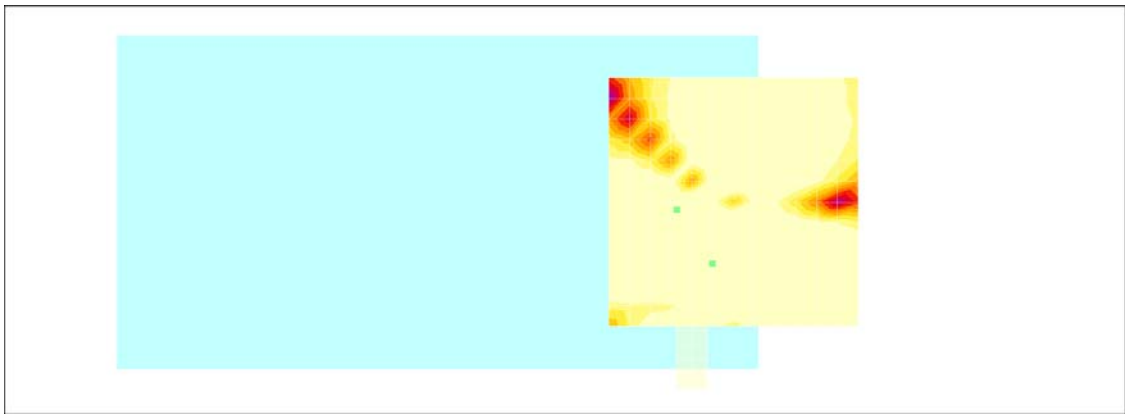
DUT: 11-2-422

Communication System: WCDMA; 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 38.6 dB
ABM1 comp = 10.4 dB A/m
Location: 11.3, 1.7, 3.7 mm



0 dB = 1.00A/m

#14 T-Coil_WCDMA II_Voice_Ch9262_Battery1_Axial (Z)

DUT: 11-2-422

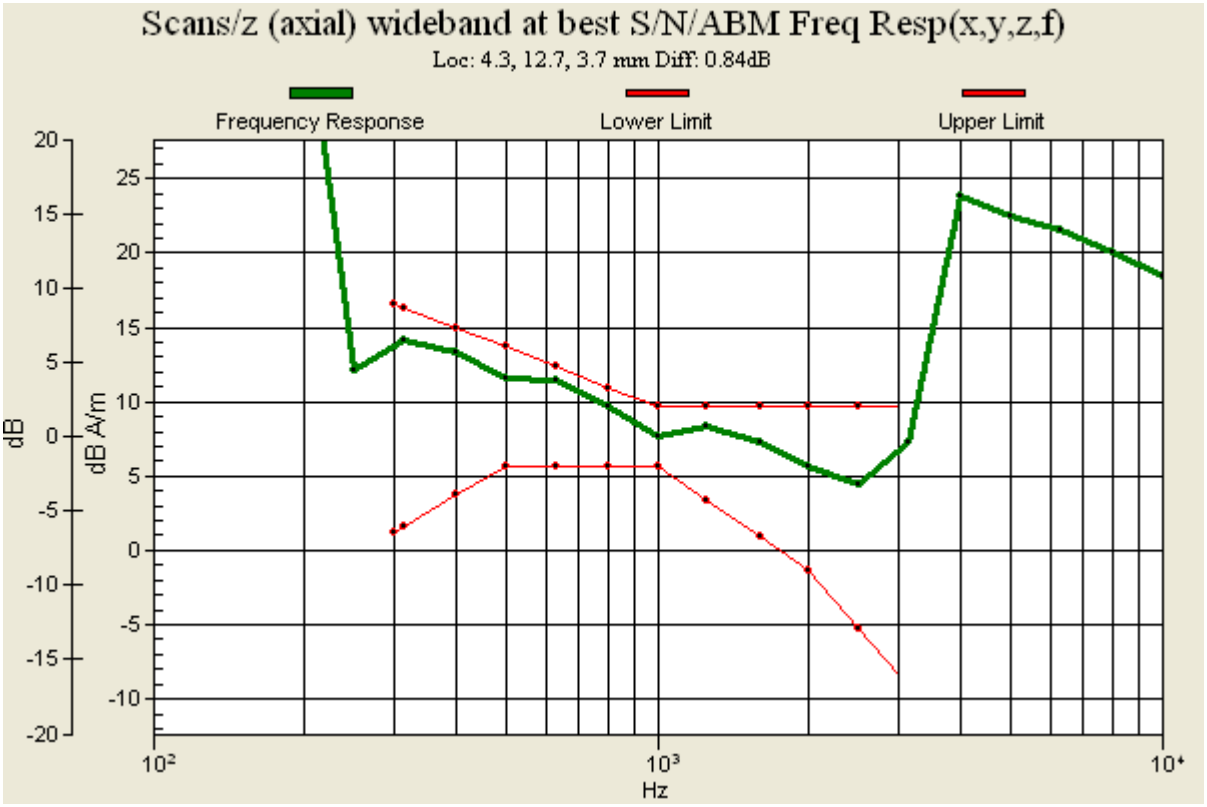
Communication System: WCDMA; Frequency: 1852.4 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\varepsilon_r = 1$; $\rho = 1$ kg/m^3
Ambient Temperature：22.5 ℃

DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 37.2 dB
ABM1 comp = 14.5 dB A/m
Location: 4.3, 12.7, 3.7 mm

0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 12.7, 3.7 mm Diff: 0.84dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
25
20
15
10
5
0
-5
-10
10^2
10^3
10^4

#14 T-Coil_WCDMA II_Voice_Ch9262_Battery1_Radial 1 (X)

DUT: 11-2-422

Communication System: WCDMA; Frequency: 1852.4 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 38.4 dB
ABM1 comp = 8.20 dB A/m
Location: 8.3, 13.7, 3.7 mm

0 dB = 1.00A/m

#14 T-Coil_WCDMA II_Voice_Ch9262_Battery1_Radial 2 (Y)

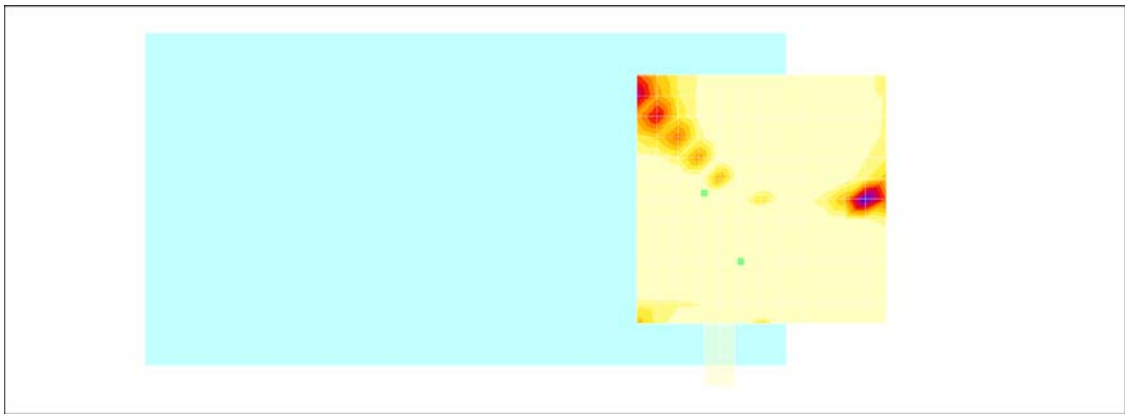
DUT: 11-2-422

Communication System: WCDMA; Frequency: 1852.4 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 38.5 dB
ABM1 comp = 5.24 dB A/m
Location: 11.3, -1.3, 3.7 mm



0 dB = 1.00A/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/8

#15 T-Coil_WCDMA II_Voice_Ch9538_Battery1_Axial (Z)

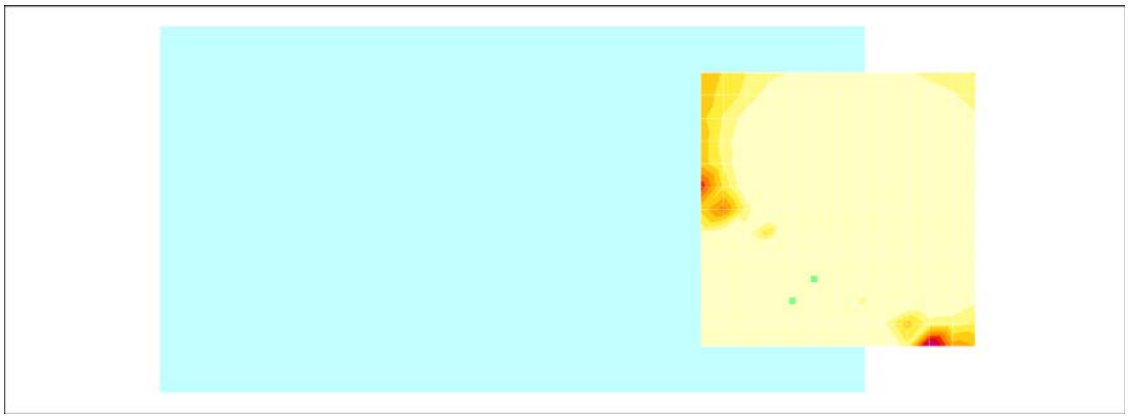
DUT: 11-2-422

Communication System: WCDMA; Frequency: 1907.6 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 ℃

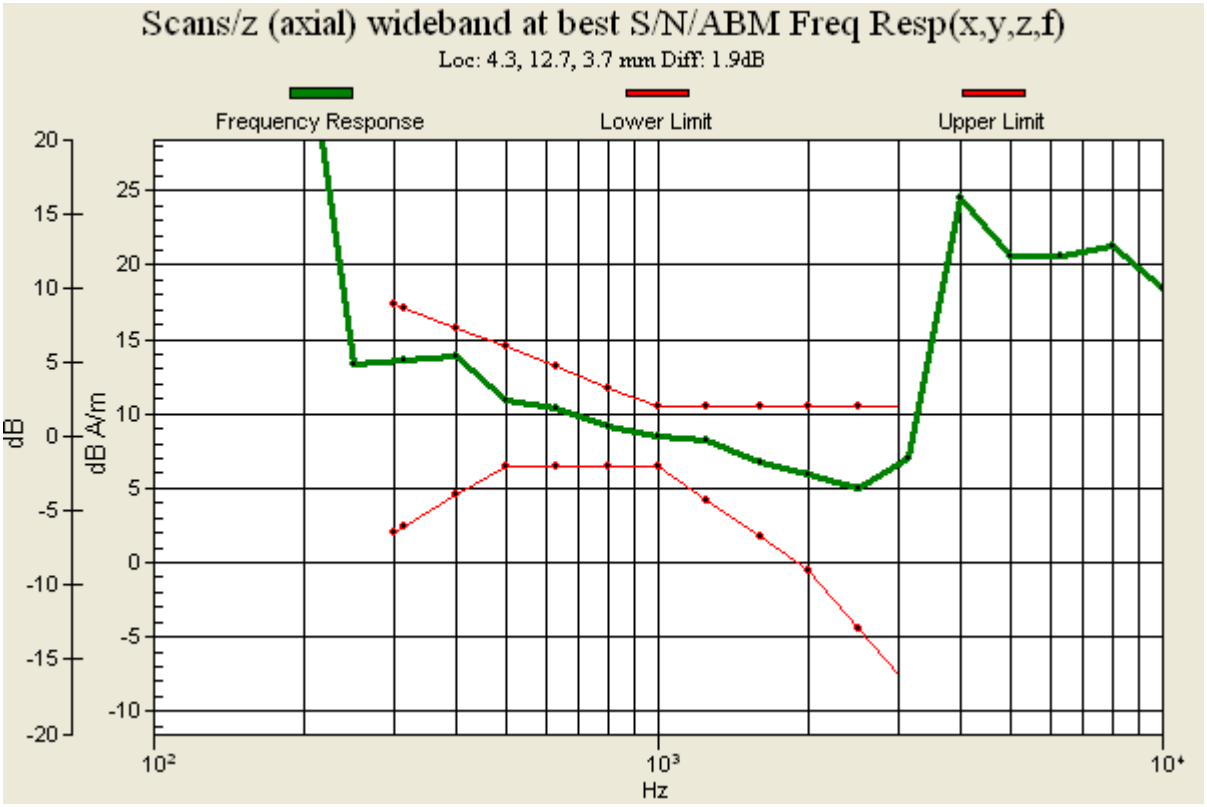
DASY4 Configuration:
- Probe: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn778; Calibrated: 2010/10/22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

Scans/z (axial) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):

ABM1/ABM2 = 37.5 dB
ABM1 comp = 13.5 dB A/m
Location: 4.3, 12.7, 3.7 mm



0 dB = 1.00A/m


Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.3, 12.7, 3.7 mm Diff: 1.9dB
Frequency Response
Lower Limit
Upper Limit
dB
dB A/m
Hz
20
15
10
5
0
-5
-10
-15
-20
25
20
15
10
5
0
-5
-10
10^2
10^3
10^4

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/8

#15 T-Coil_WCDMA II_Voice_Ch9538_Battery1_Radial 1 (X)

DUT: 11-2-422

Communication System: WCDMA; Frequency: 1907.6 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/x (longitudinal) fine 3mm 42 x 6/ABM SNR(x,y,z) (15x3x1):

ABM1/ABM2 = 38.6 dB
ABM1 comp = 12.4 dB A/m
Location: -3.7, 13.7, 3.7 mm

0 dB = 1.00A/m

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2011/5/8

#15 T-Coil_WCDMA II_Voice_Ch9538_Battery1_Radial 2 (Y)

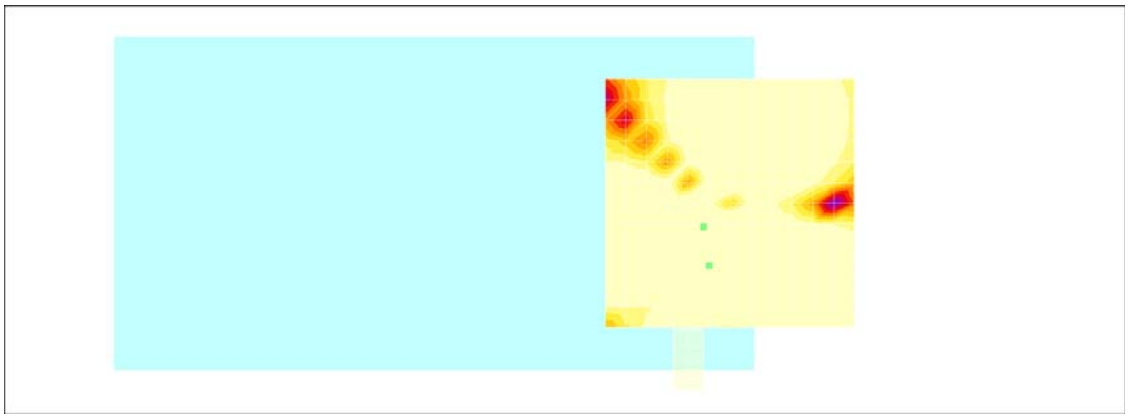
DUT: 11-2-422

Communication System: WCDMA; Frequency: 1907.6 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: AM1DV2 - 1038; ; Calibrated: 2011/1/18
- Sensor-Surface: 0mm (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

Scans/y (transversal) fine 3mm 6 x 42/ABM SNR(x,y,z) (3x15x1):

ABM1/ABM2 = 37.9 dB
ABM1 comp = 13.3 dB A/m
Location: 5.3, 4.7, 3.7 mm



0 dB = 1.00A/m