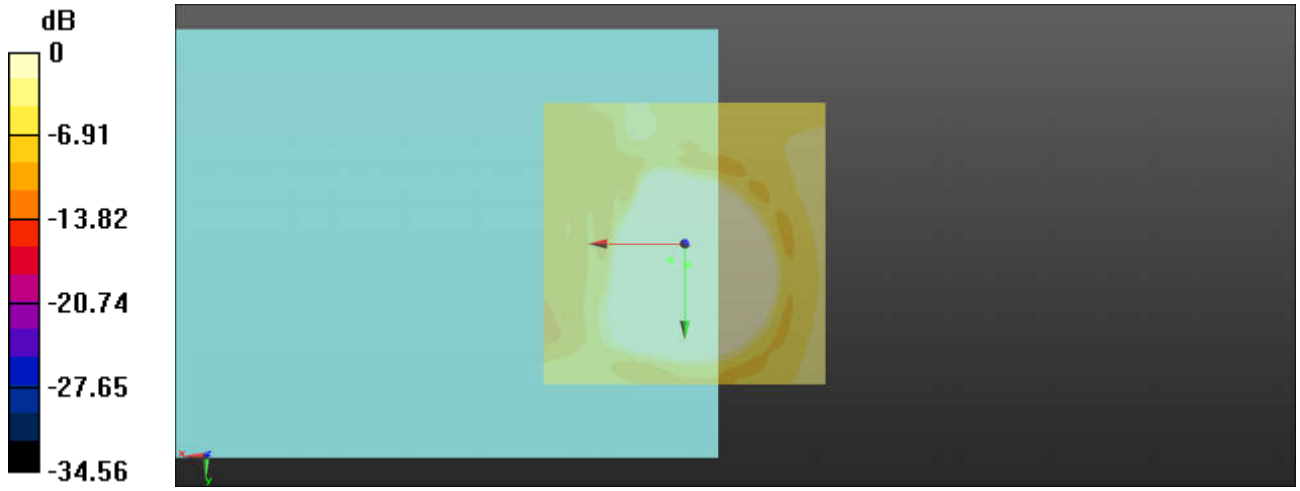
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

1 HAC T-Coil GSM850_Voice_Ch189(Z)

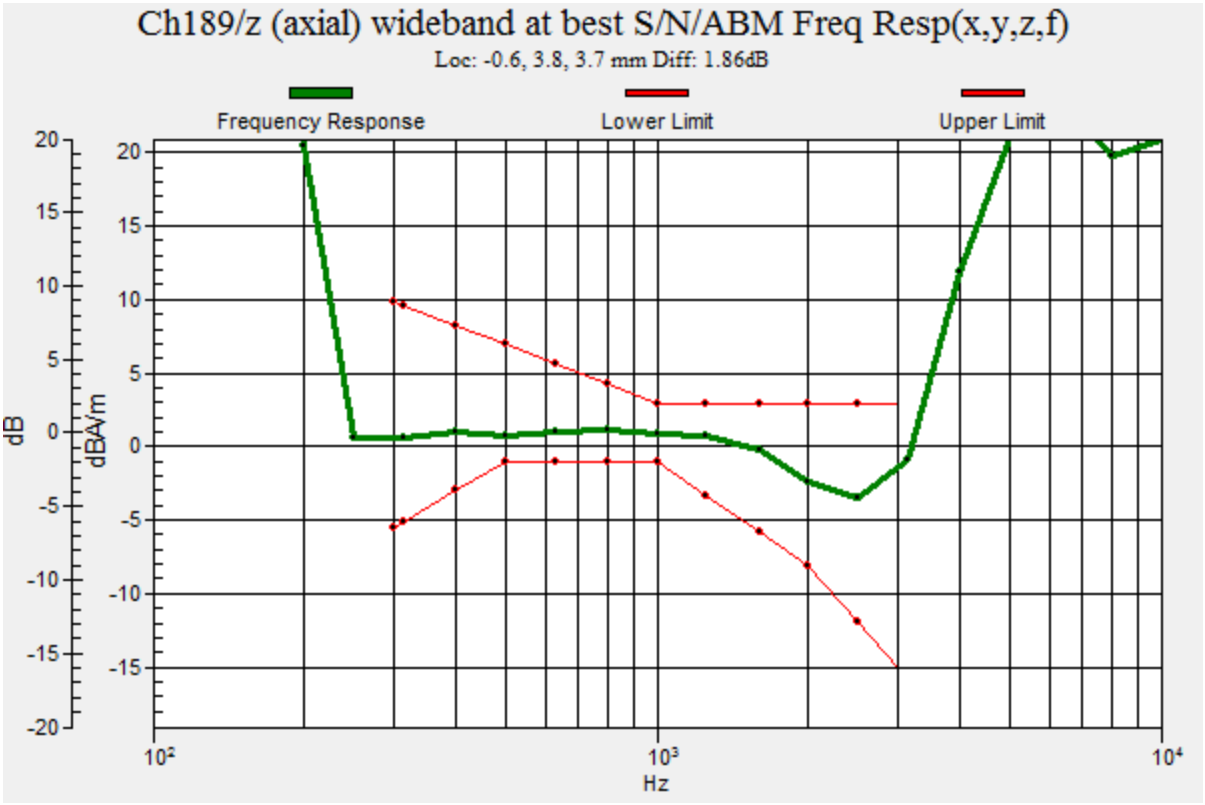
Communication System: UID 0, General GSM (0); Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 24.00 dB
ABM1 comp = -0.96 dBA/m
Location: 2.5, 2.9, 3.7 mm



0 dB = 1.000 = 0.00 dB


Ch189/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -0.6, 3.8, 3.7 mm Diff: 1.86dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

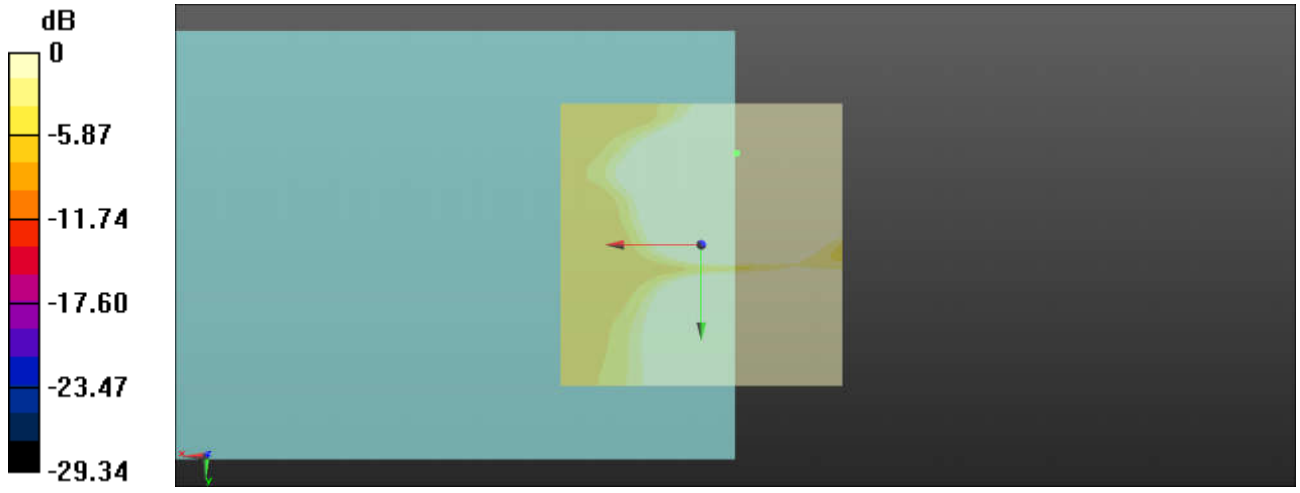
1 HAC T-Coil GSM850_Voice_Ch189(Y)

Communication System: UID 0, General GSM (0); Frequency: 836.4 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch189/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 21.88 dB
ABM1 comp = -16.93 dBA/m
Location: -6.2, -16.3, 3.7 mm



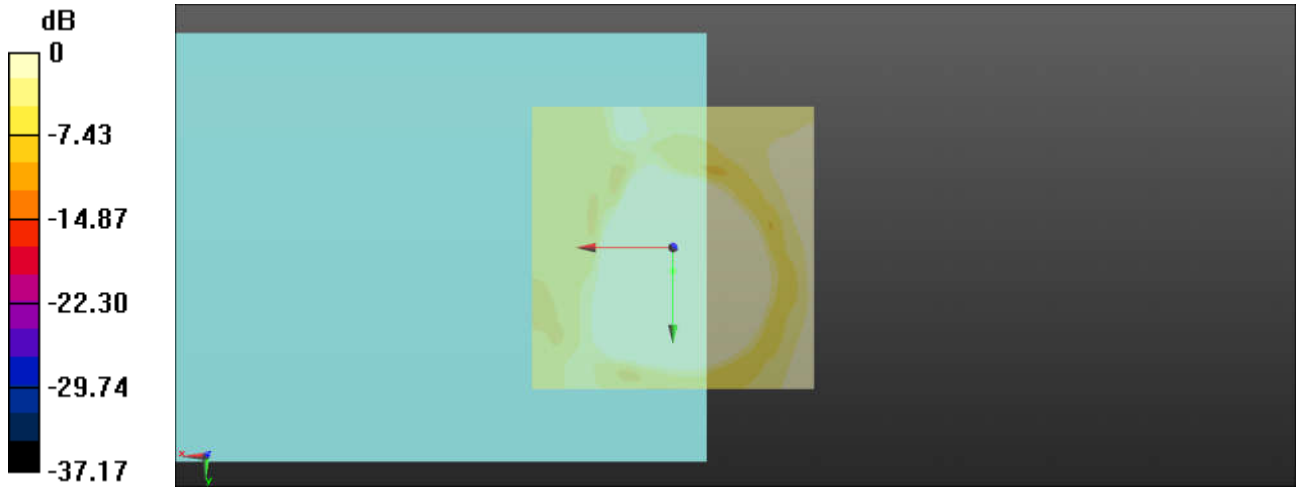
0 dB = 1.000 = 0.00 dB

2 HAC T-Coil GSM1900_Voice_Ch661(Z)

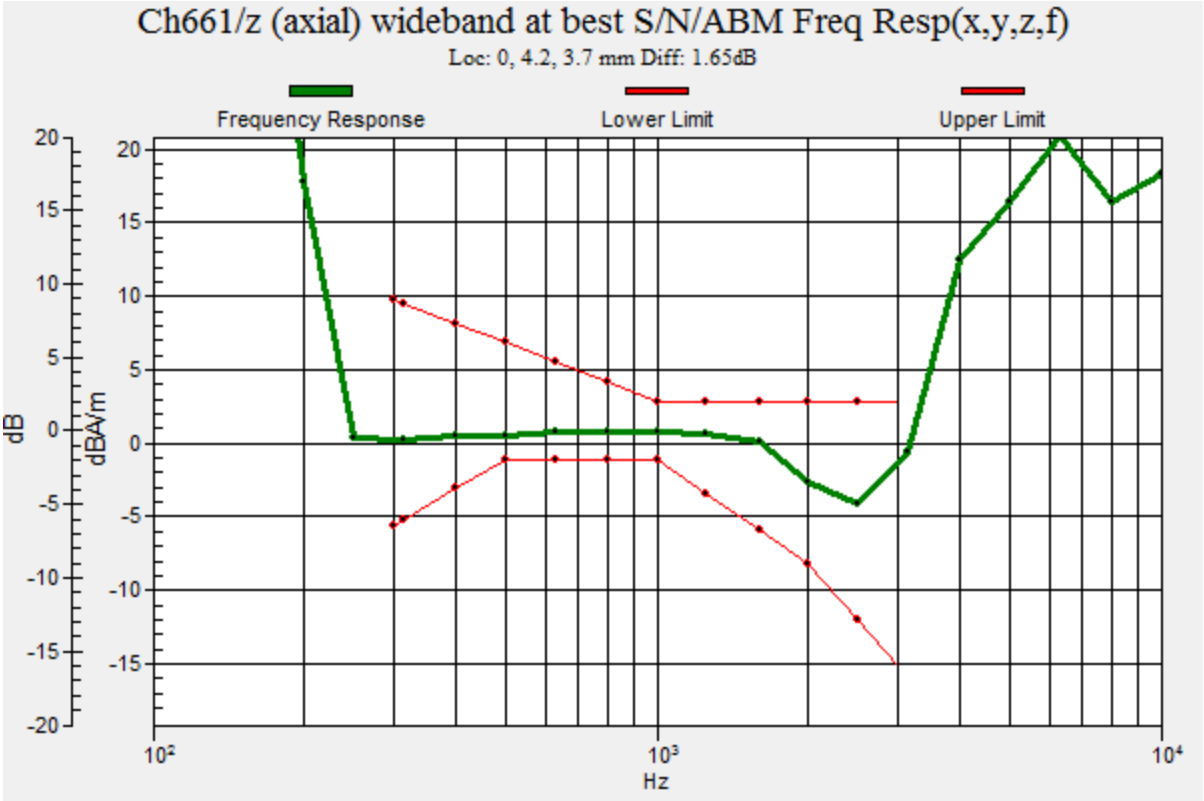
Communication System: UID 0, General GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 27.20 dB
ABM1 comp = 0.37 dBA/m
Location: 0, 4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB


Ch661/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, 4.2, 3.7 mm Diff: 1.65dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

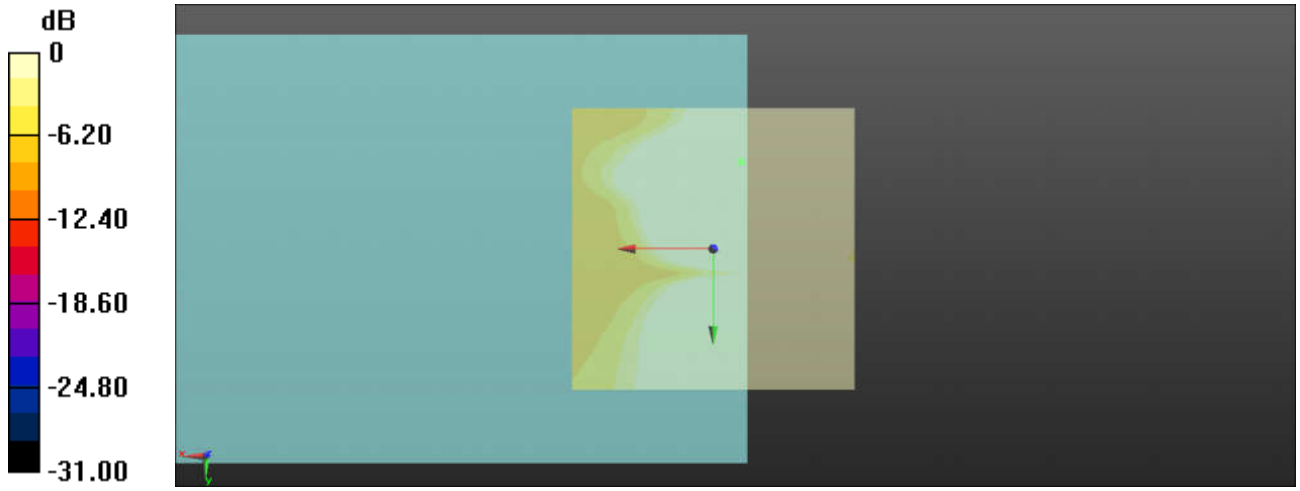
2 HAC T-Coil GSM1900_Voice_Ch661(Y)

Communication System: UID 0, General GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.3
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch661/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 23.57 dB
ABM1 comp = -15.64 dBA/m
Location: -5, -15.4, 3.7 mm



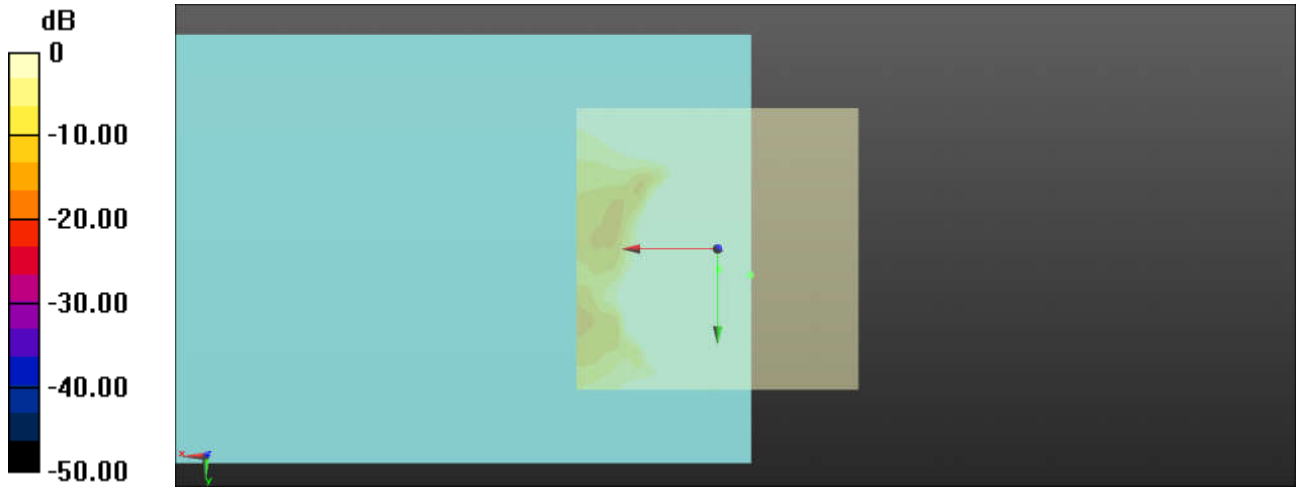
0 dB = 1.000 = 0.00 dB

3 HAC T-Coil WCDMA V_AMR 12.2Kbps_Ch4182(Z)

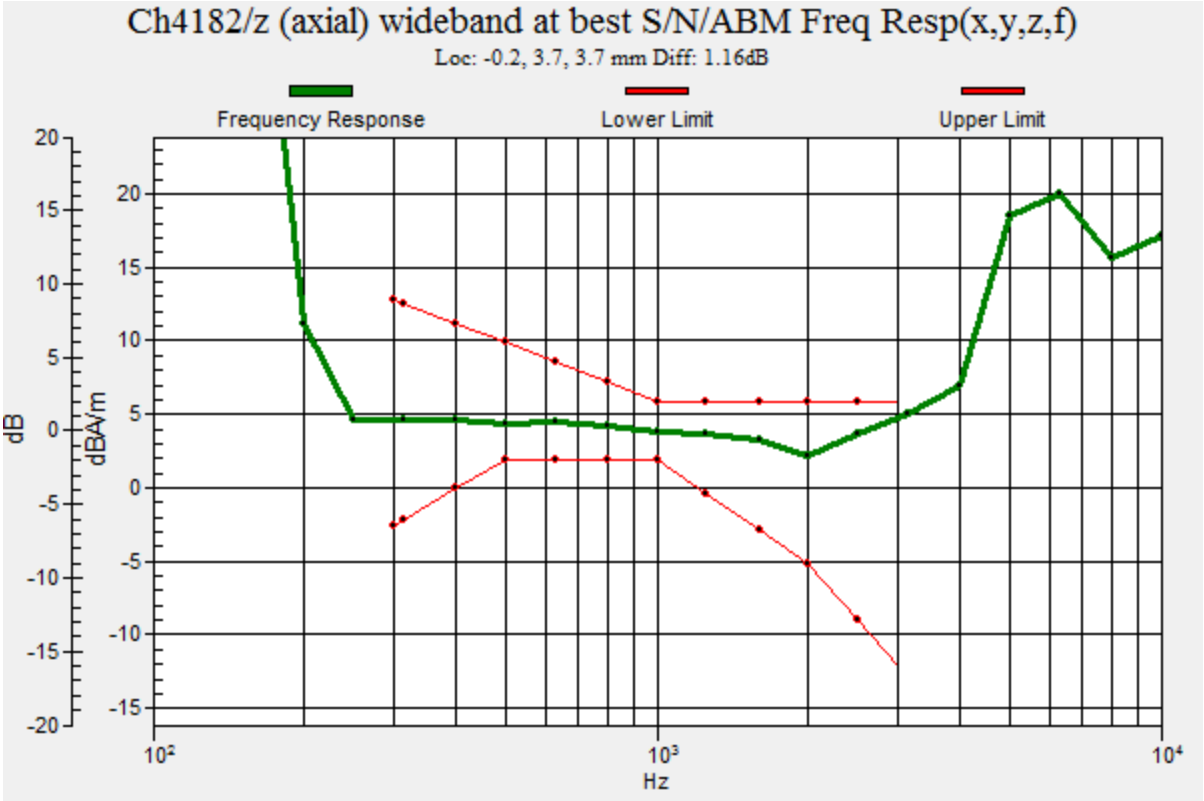
Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4182/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 39.32 dB
ABM1 comp = 0.10 dBA/m
Location: -5.8, 4.6, 3.7 mm



0 dB = 1.000 = 0.00 dB


Ch4182/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -0.2, 3.7, 3.7 mm Diff: 1.16dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

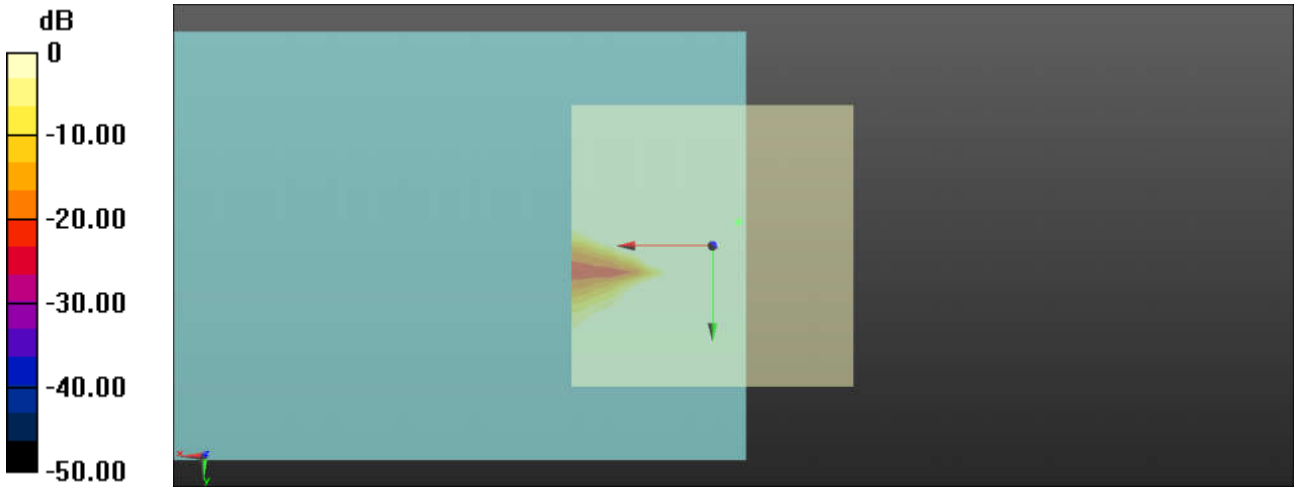
3 HAC T-Coil WCDMA V_AMR 12.2Kbps_Ch4182(Y)

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch4182/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 45.16 dB
ABM1 comp = -5.10 dBA/m
Location: -4.6, -4.2, 3.7 mm



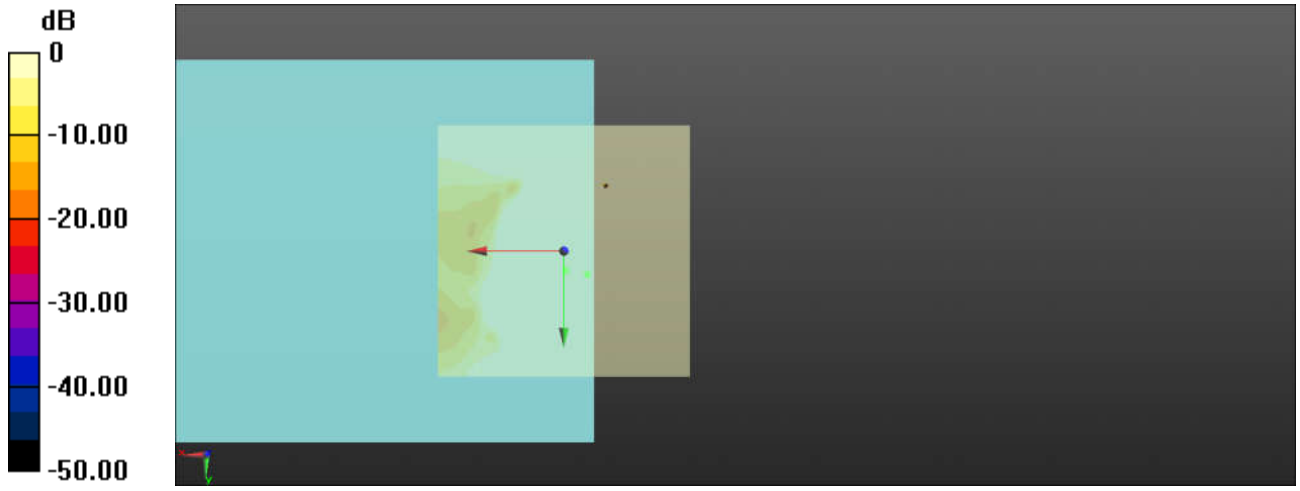
0 dB = 1.000 = 0.00 dB

4 HAC T-Coil WCDMA IV_AMR 12.2Kbps_Ch1413（Z）

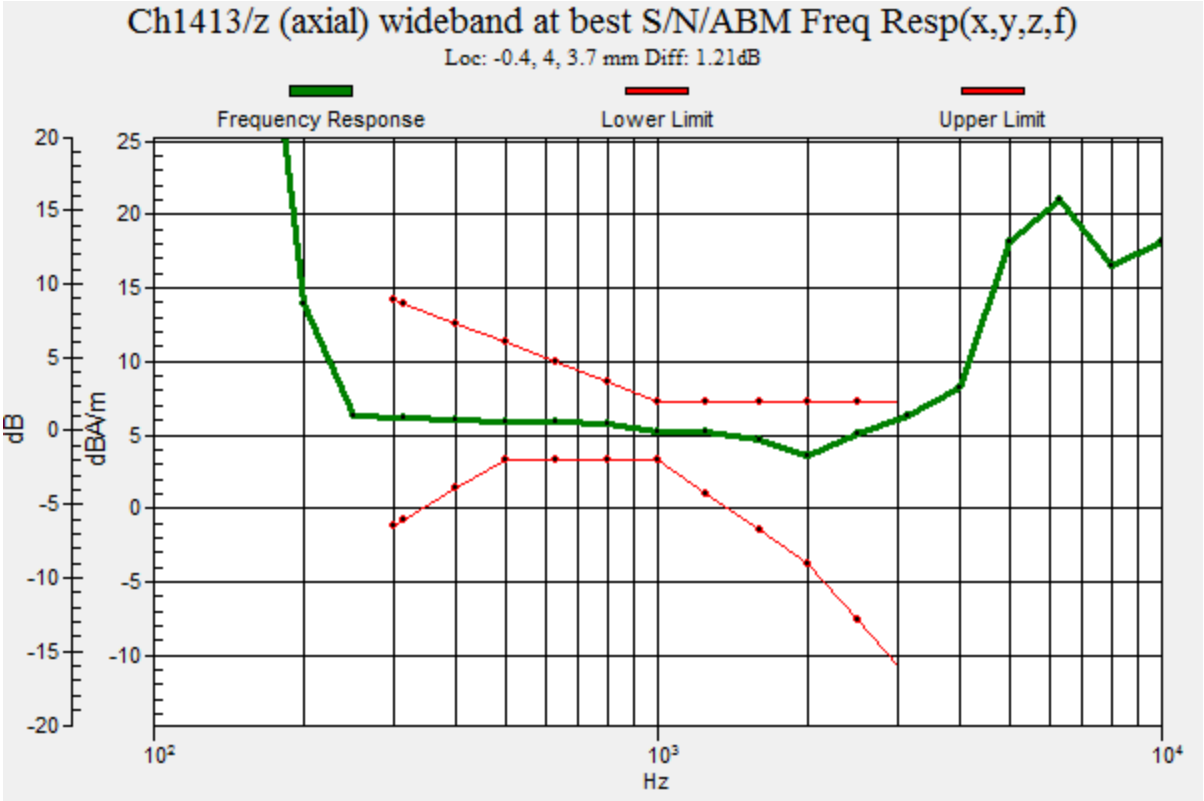
Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1413/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 41.23 dB
ABM1 comp = 2.86 dBA/m
Location: -4.6, 4.6, 3.7 mm



0 dB = 1.000 = 0.00 dB


Ch1413/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -0.4, 4, 3.7 mm Diff: 1.21dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/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

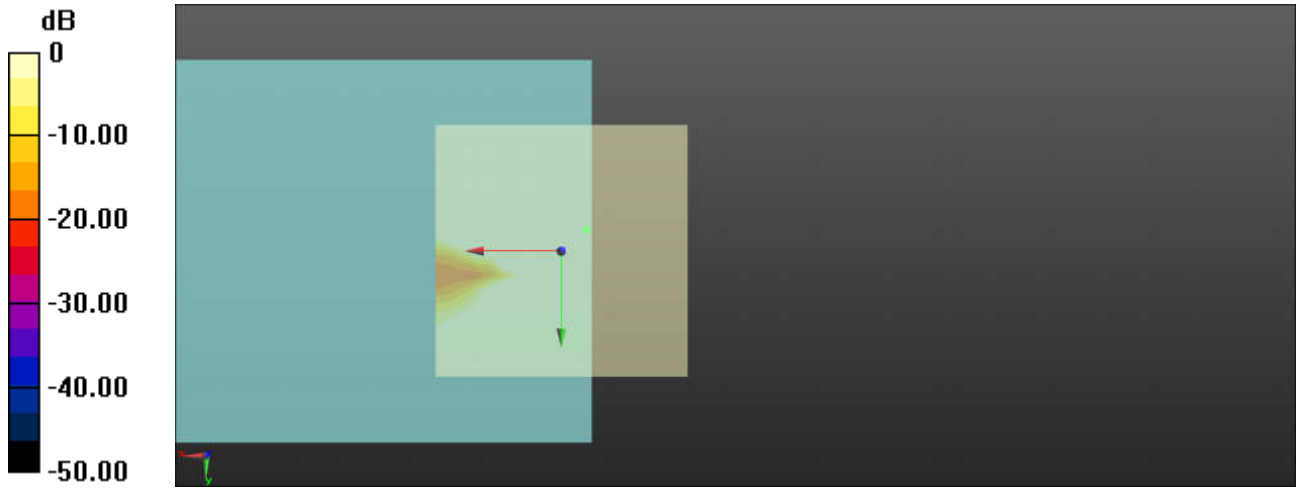
4 HAC T-Coil WCDMA IV_AMR 12.2Kbps_Ch1413（Y）

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch1413/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 44.96 dB
ABM1 comp = -4.68 dBA/m
Location: -5, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

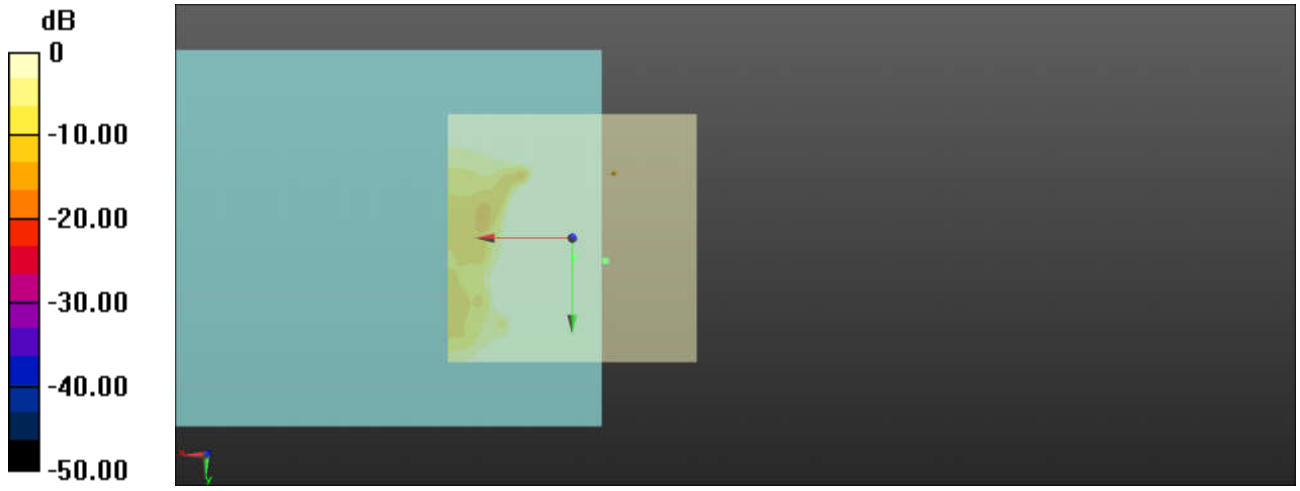
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

5 HAC T-Coil WCDMA II_AMR 12.2Kbps_Ch9400（Z）

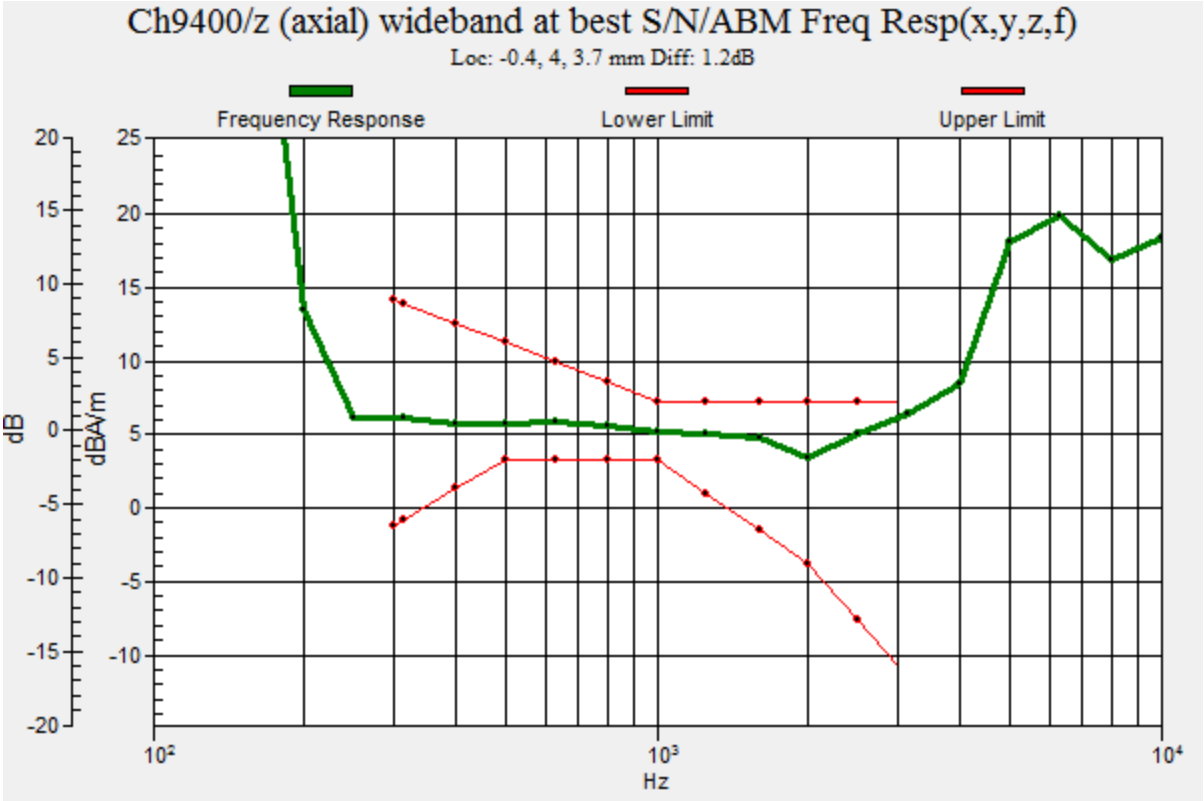
Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 41.89 dB
ABM1 comp = -0.01 dBA/m
Location: -6.7, 4.6, 3.7 mm



0 dB = 1.000 = 0.00 dB


Ch9400/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -0.4, 4, 3.7 mm Diff: 1.2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

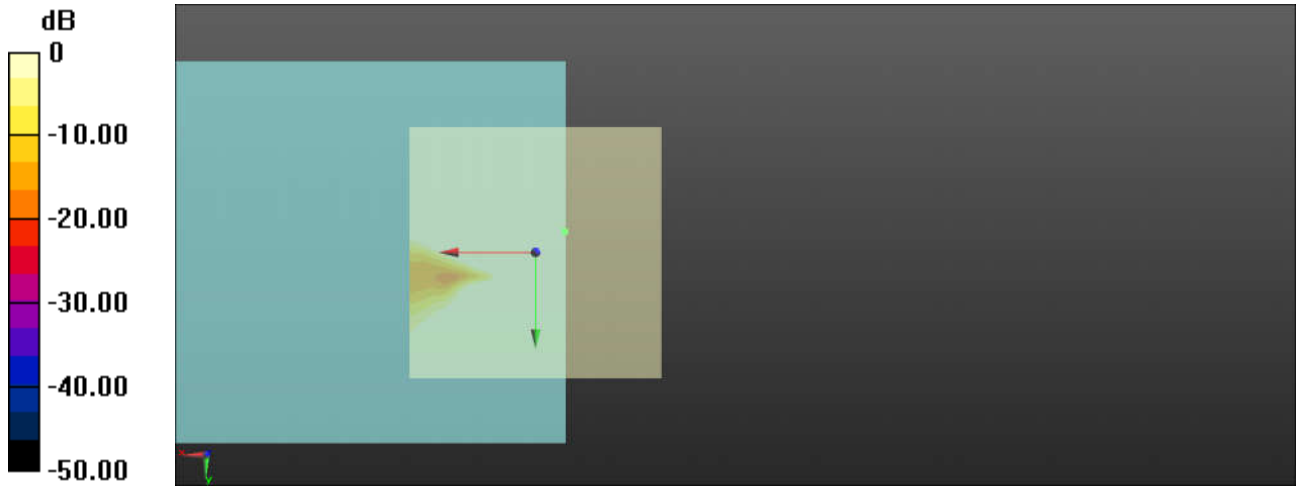
5 HAC T-Coil WCDMA II_AMR 12.2Kbps_Ch9400（Y）

Communication System: UID 0, WCDMA (0); 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：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Ch9400/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 44.88 dB
ABM1 comp = -5.42 dBA/m
Location: -5.8, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

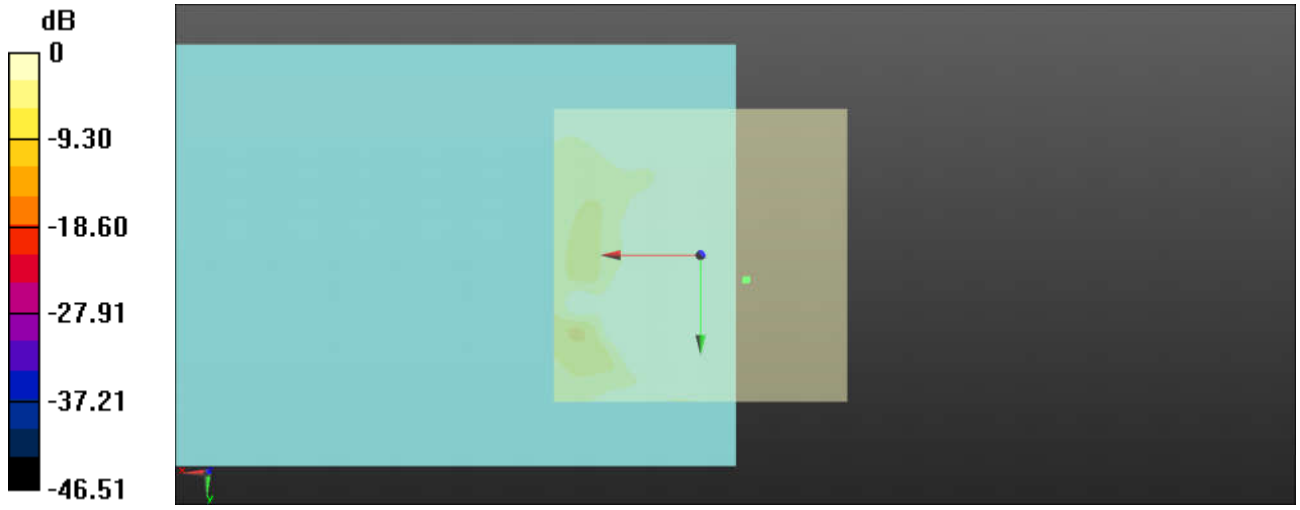
6_HAC_T-Coil_LTE Band 2_20M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch18900(Z)

Communication System: UID 0, FDD_LTE (0); 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：23.5 ℃

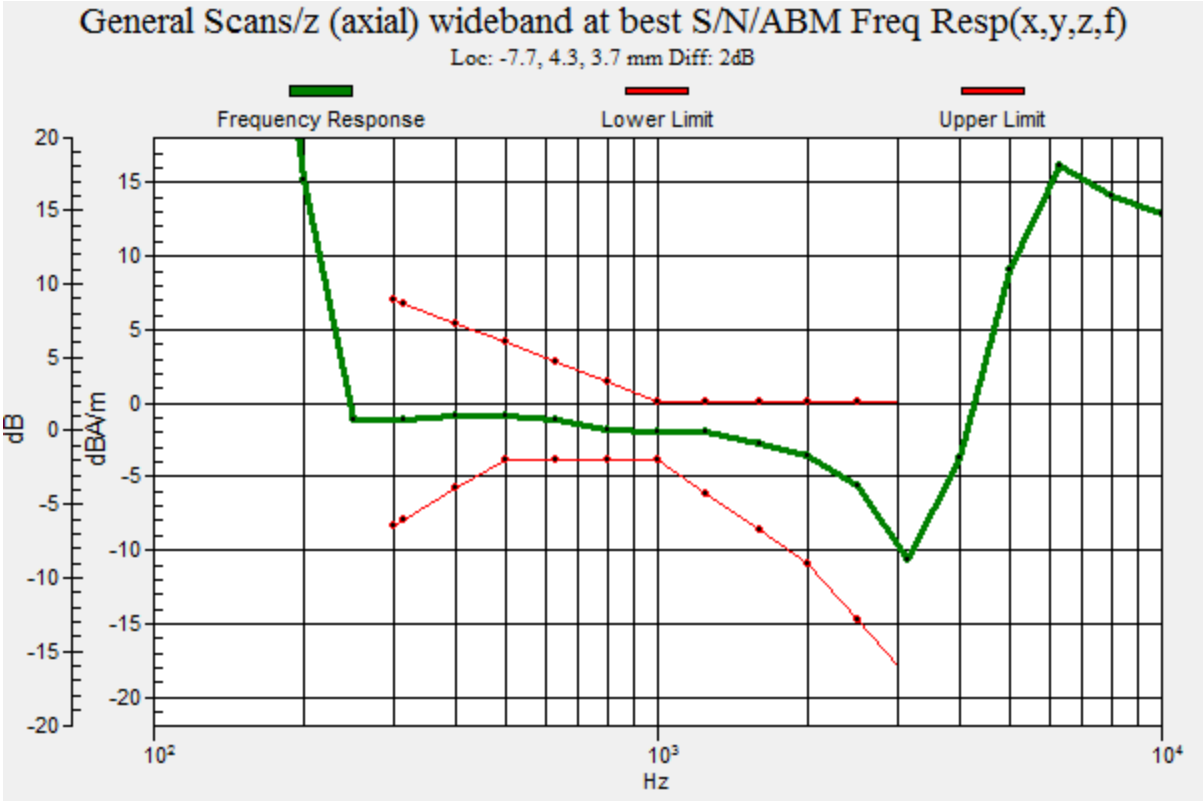
DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 33.21 dB
ABM1 comp = -1.77 dBA/m
Location: -7.9, 4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB


General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -7.7, 4.3, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

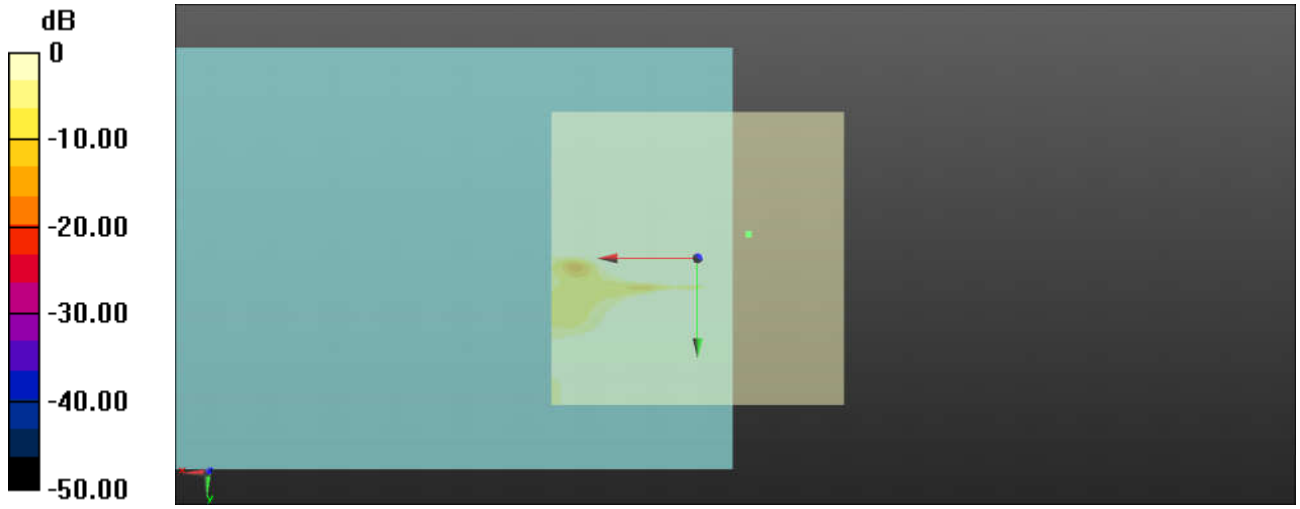
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

6_HAC_T-Coil_LTE Band 2_20M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch18900(Y)

Communication System: LTE; Frequency: 1880 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 39.27 dB
ABM1 comp = -9.89 dBA/m
Location: -8.7, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

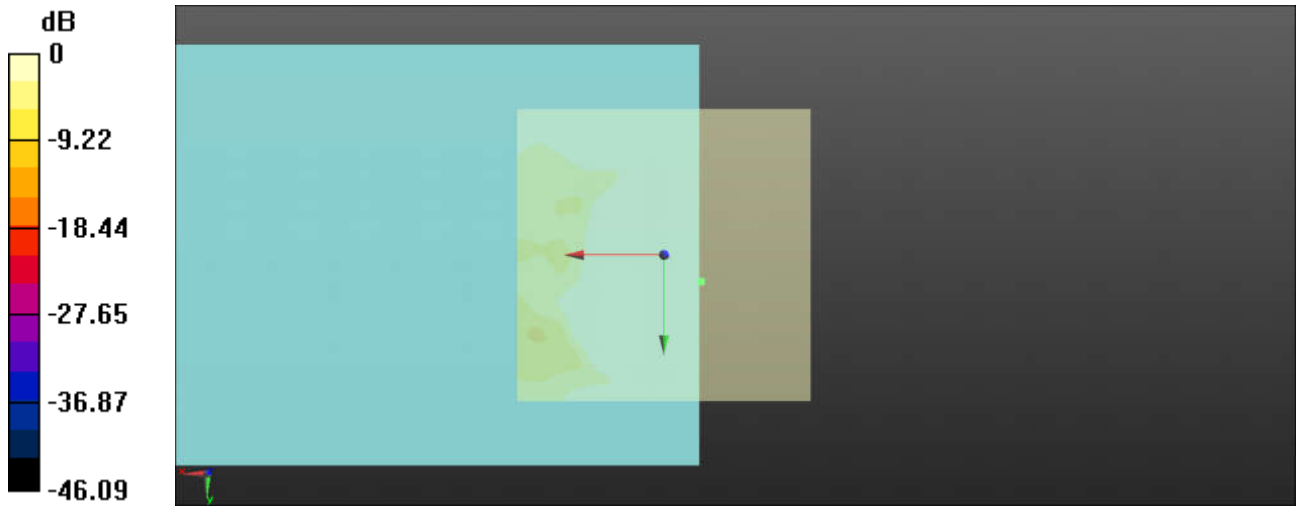
7_HAC_T-Coil_LTE Band 4_20M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch20175(Z)

Communication System: LTE; Frequency: 1732.5 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

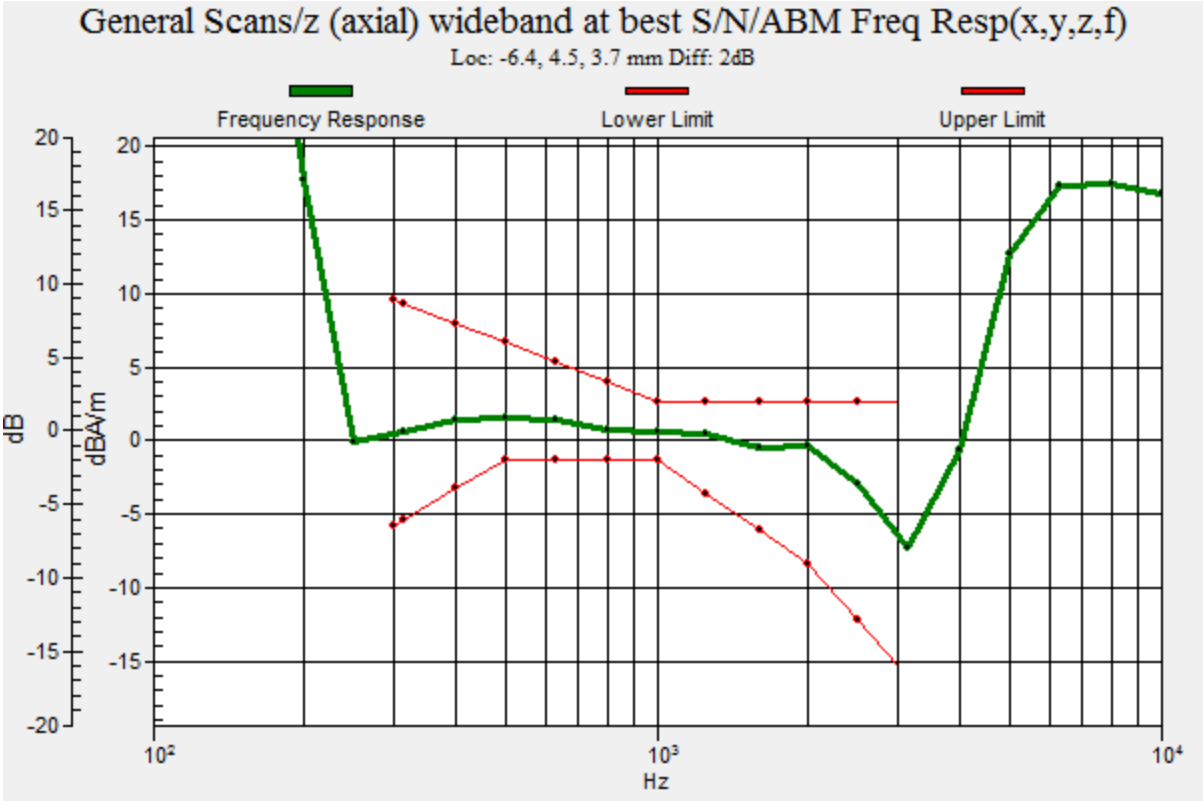
DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 36.53 dB
ABM1 comp = -0.40 dBA/m
Location: -6.2, 4.6, 3.7 mm



0 dB = 1.000 = 0.00 dB

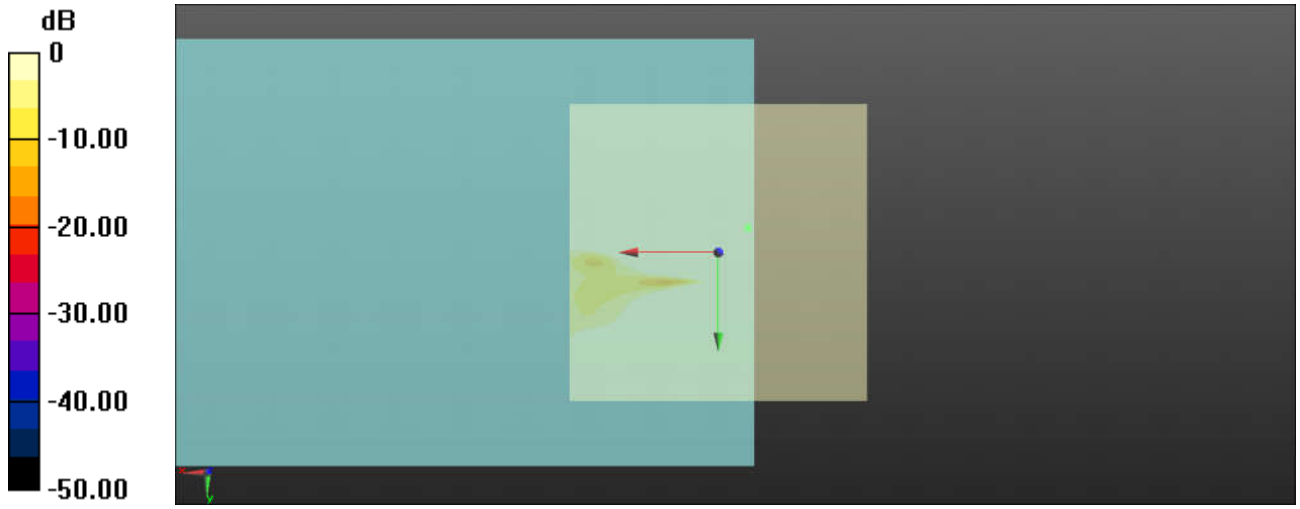

General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -6.4, 4.5, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

7_HAC_T-Coil_LTE Band 4_20M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch20175(Y)

Communication System: LTE; Frequency: 1732.5 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 39.84 dB
ABM1 comp = -5.77 dBA/m
Location: -5, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

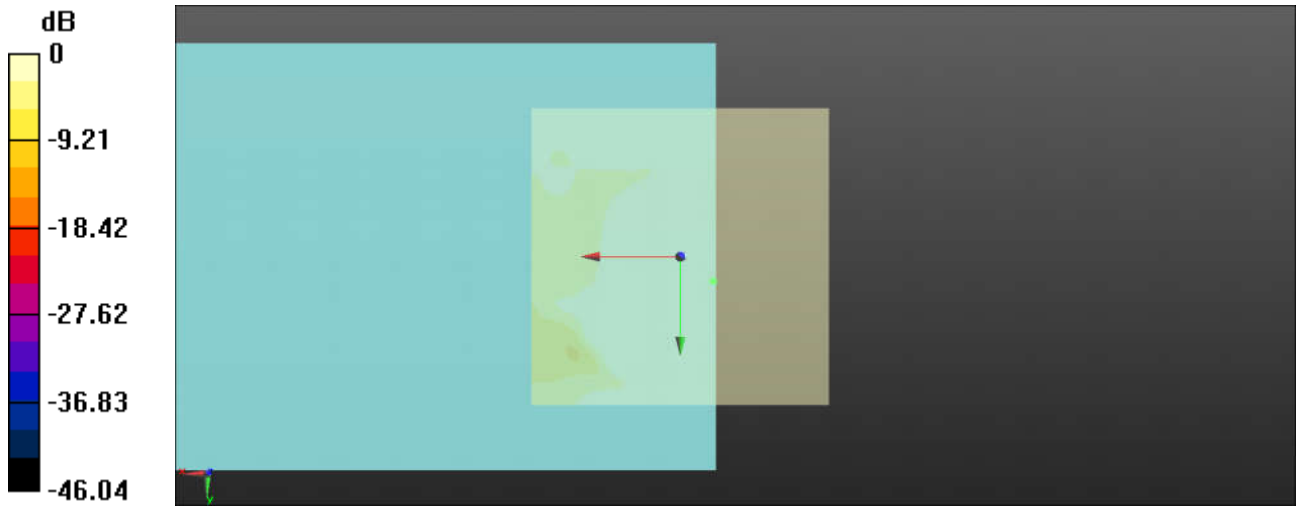
8_HAC_T-Coil_LTE Band 5_10M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch20525(Z)

Communication System: UID 0, LTE (0); Frequency: 836.5 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

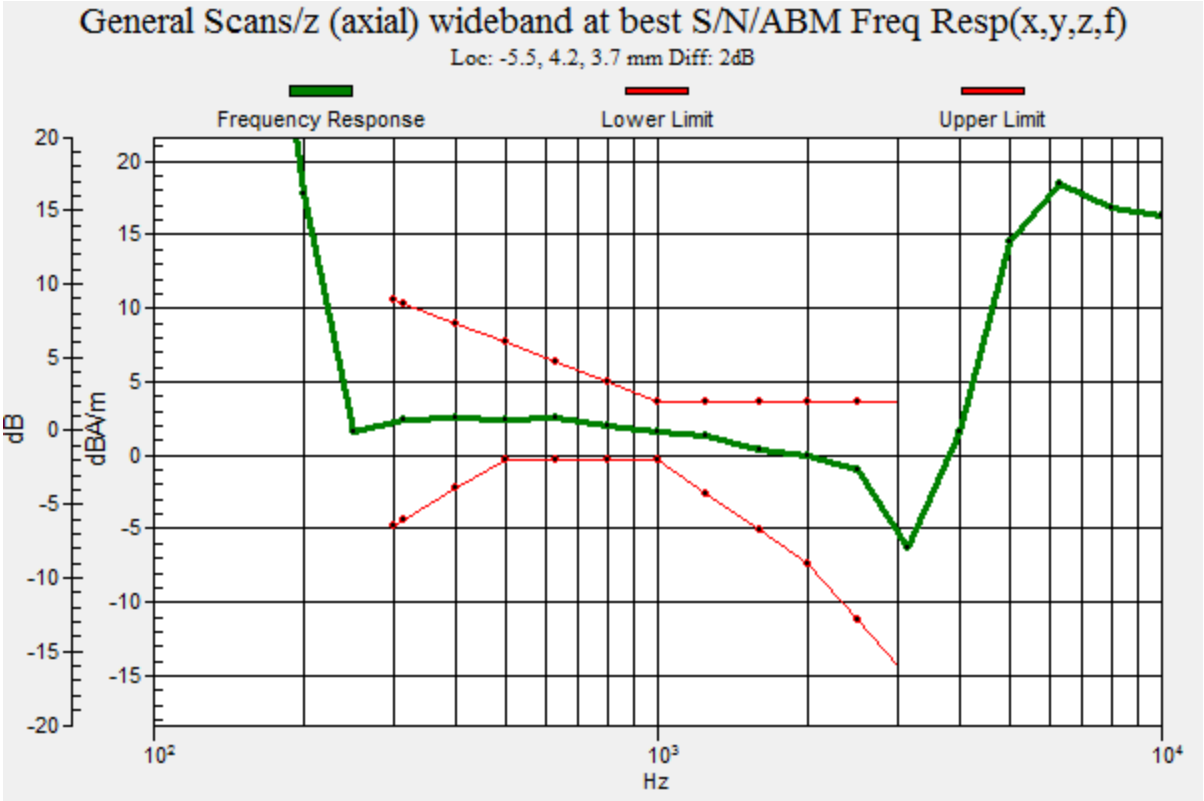
DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 36.36 dB
ABM1 comp = 0.89 dBA/m
Location: -5.4, 4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB


General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -5.5, 4.2, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

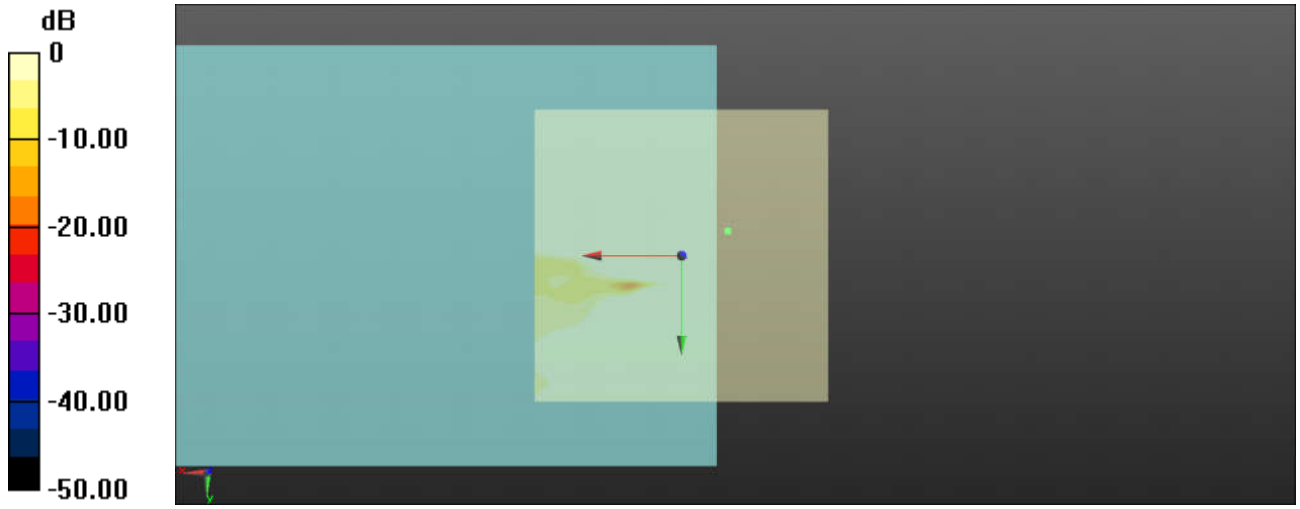
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

8_HAC_T-Coil_LTE Band 5_10M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch20525(Y)

Communication System: LTE; Frequency: 836.5 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 40.18 dB
ABM1 comp = -8.34 dBA/m
Location: -7.9, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

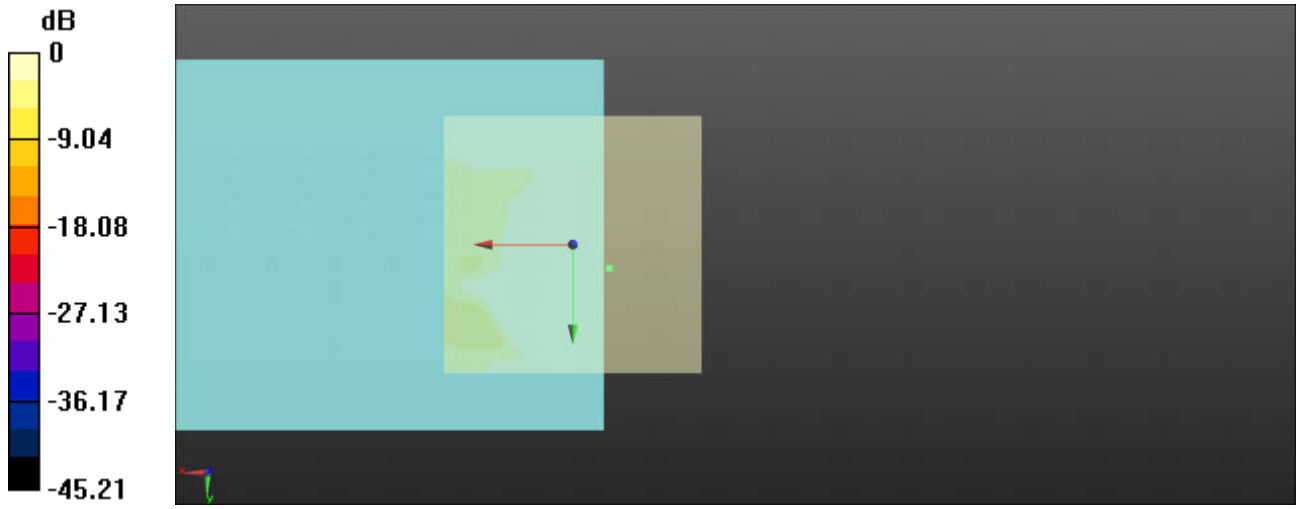
9_HAC_T-Coil_LTE Band 12_10M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch23095（Z）

Communication System: LTE; Frequency: 707.5 MHz;
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

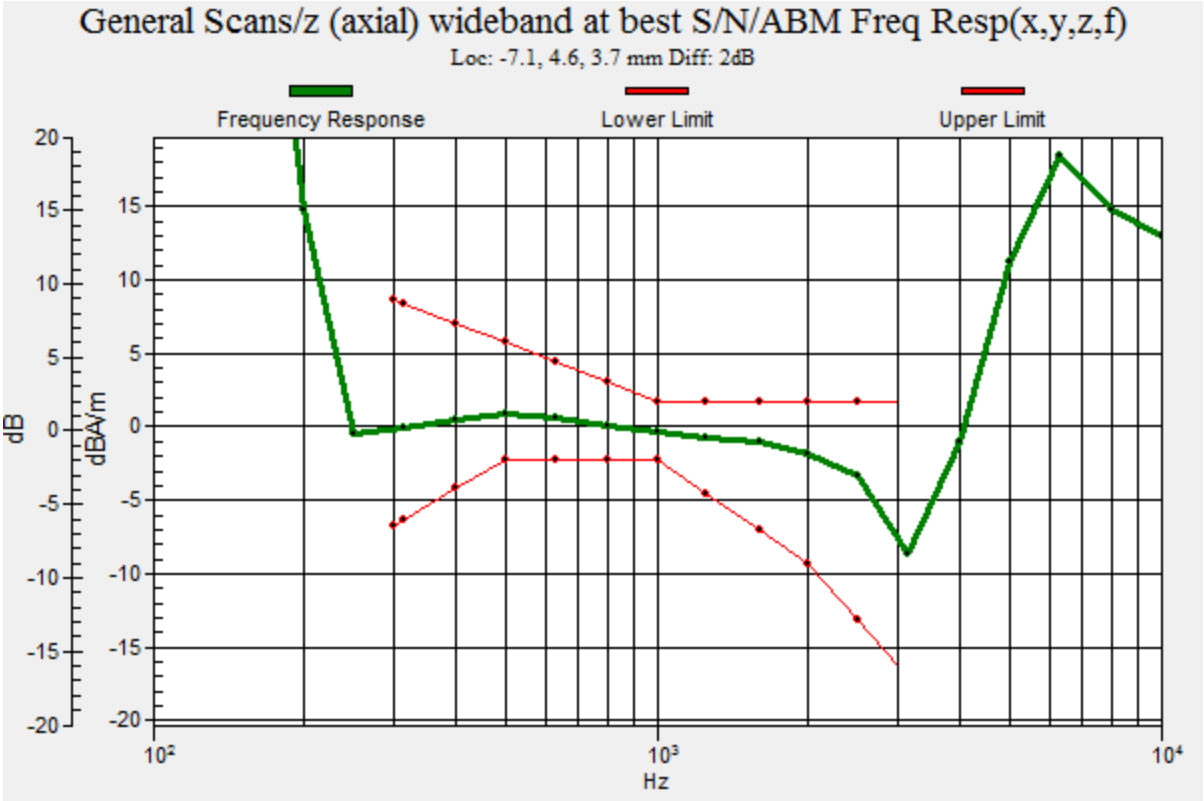
DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 36.46 dB
ABM1 comp = -1.83 dBA/m
Location: -7.1, 4.6, 3.7 mm



0 dB = 1.000 = 0.00 dB


General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -7.1, 4.6, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

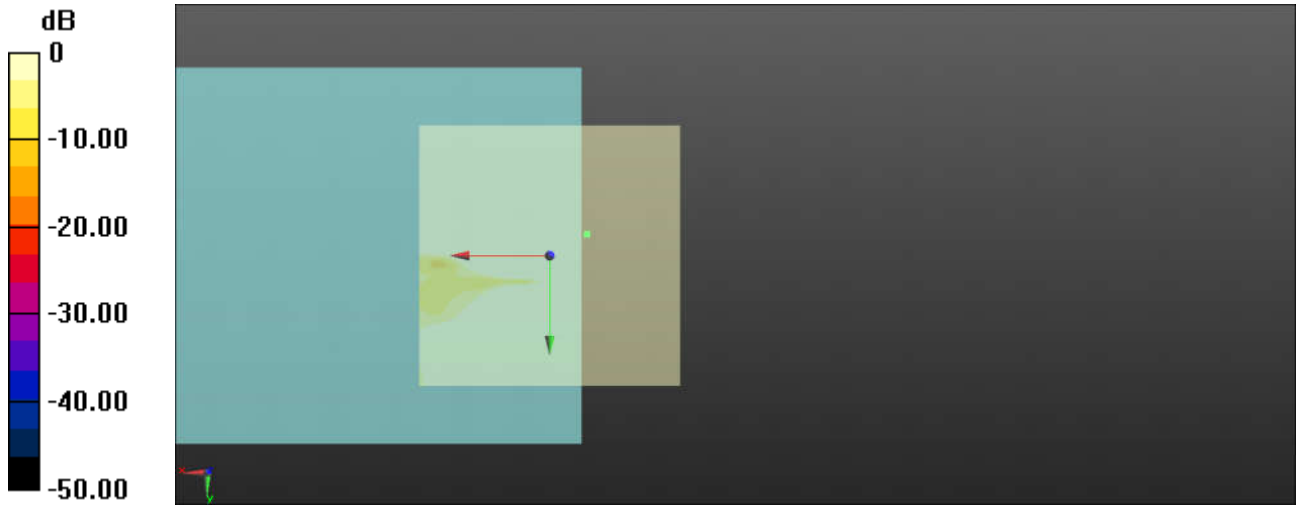
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

9_HAC_T-Coil_LTE Band 12_10M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch23095（Y）

Communication System: LTE; Frequency: 707.5 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 39.61 dB
ABM1 comp = -7.39 dBA/m
Location: -7.1, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

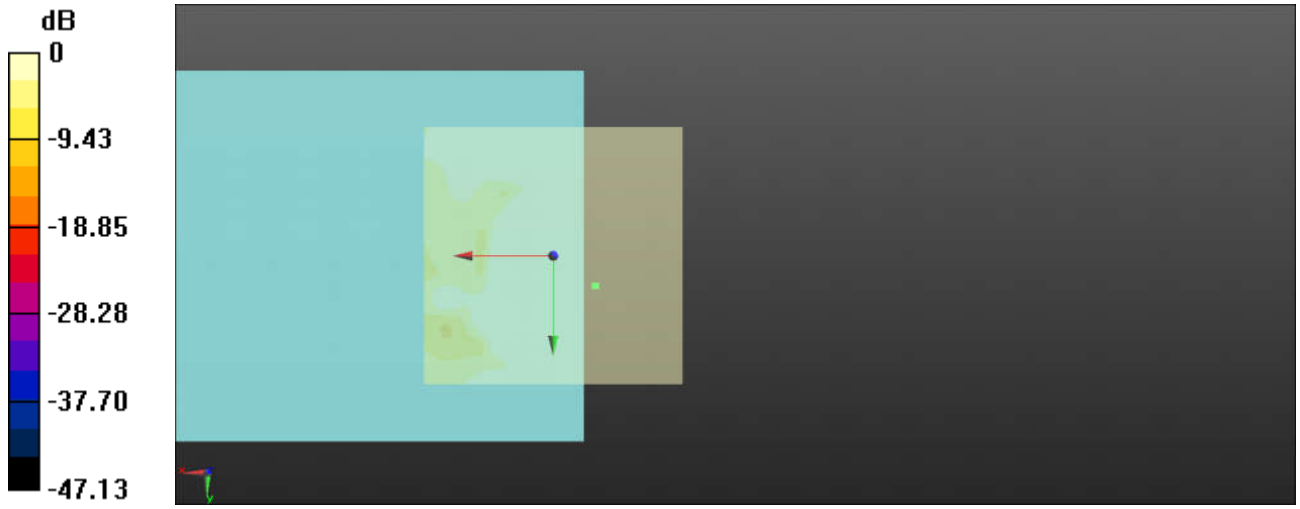
10_HAC_T-Coil_LTE Band 13_10M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch23230（Z）

Communication System: LTE (0); Frequency: 782 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

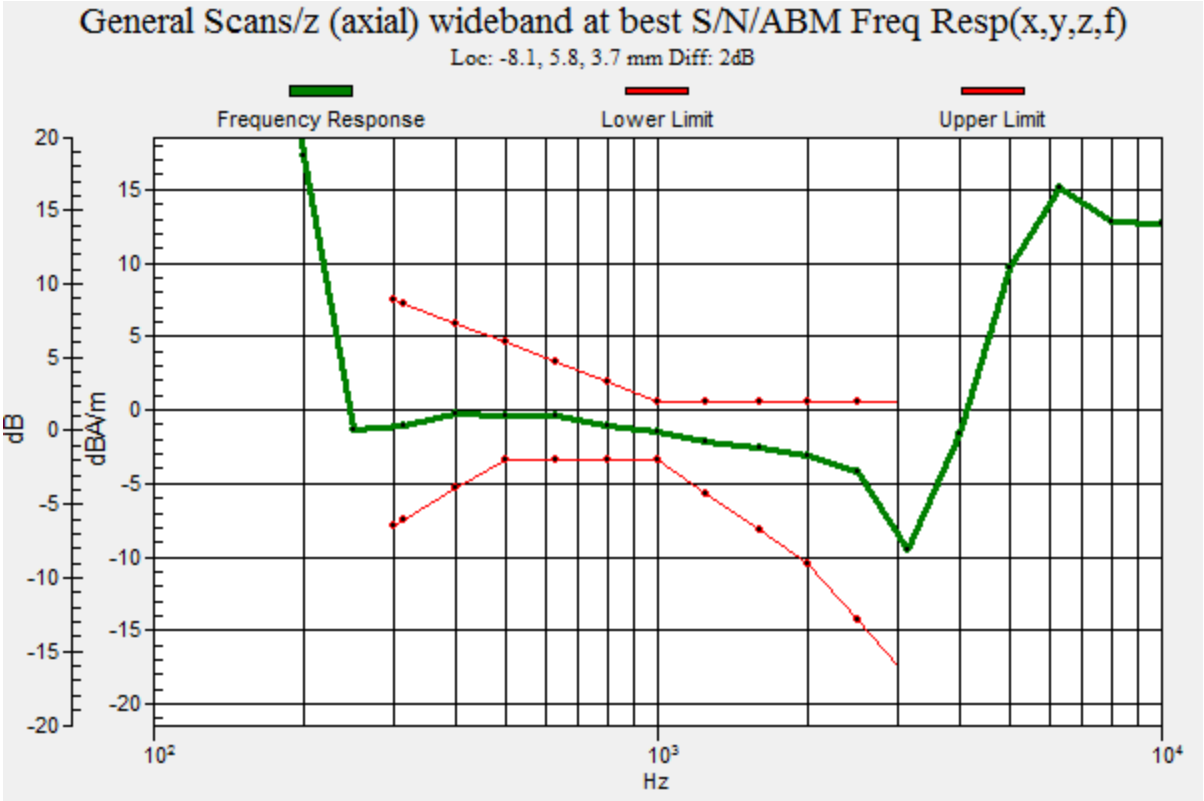
DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 37.21 dB
ABM1 comp = -3.06 dBA/m
Location: -8.3, 5.8, 3.7 mm



0 dB = 1.000 = 0.00 dB


General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.1, 5.8, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10²
10³
10⁴
Hz

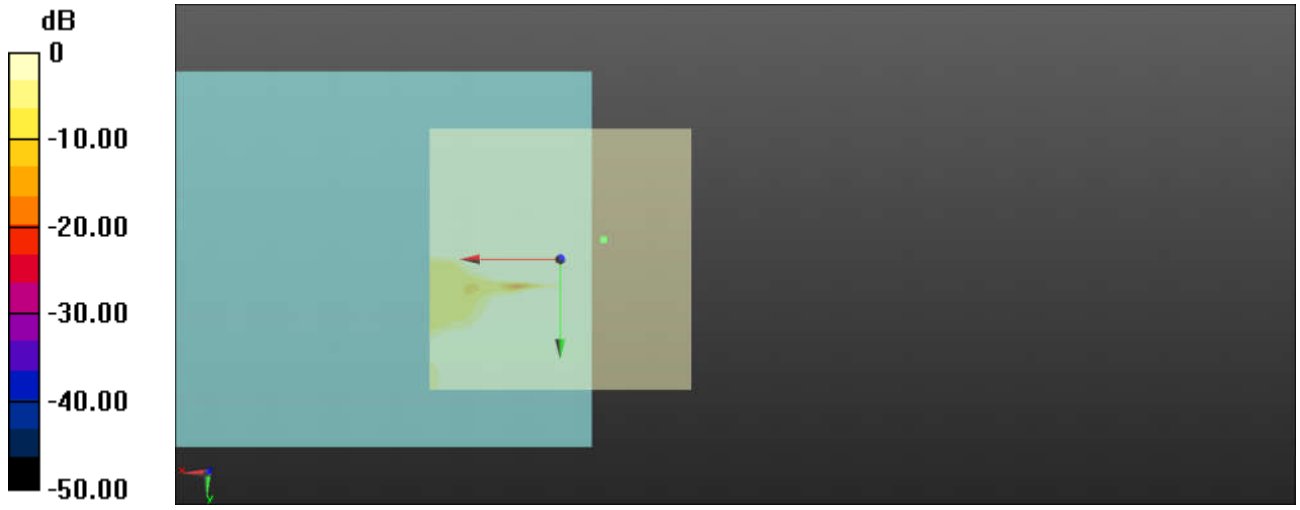
Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

10_HAC_T-Coil_LTE Band 13_10M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch23230（Y）

Communication System: LTE; Frequency: 782 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 39.78 dB
ABM1 comp = -7.93 dBA/m
Location: -8.3, -3.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

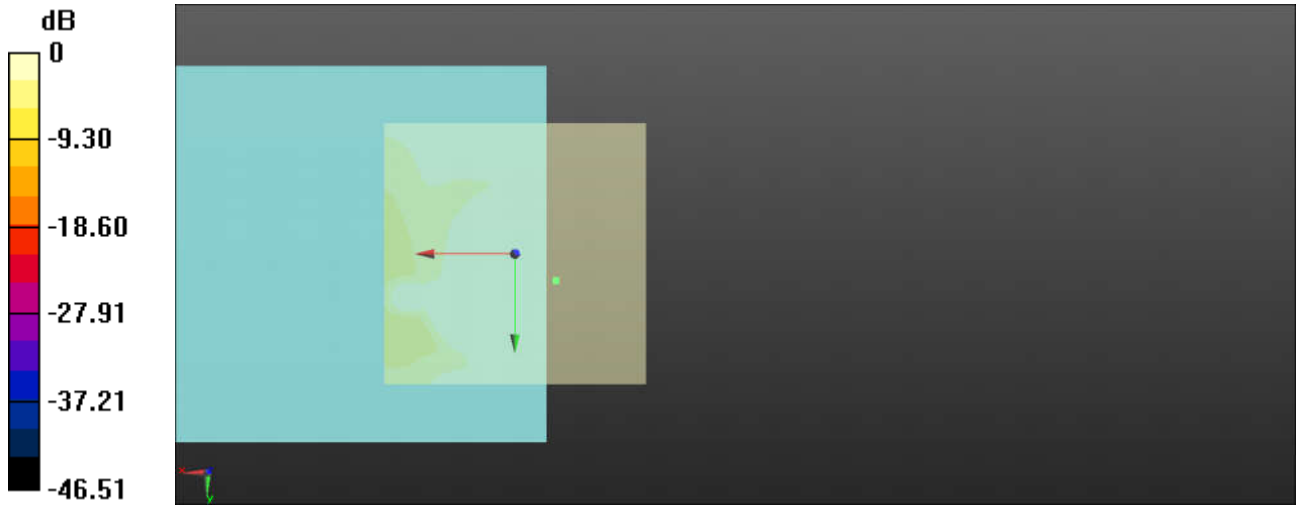
11_HAC_T-Coil_LTE Band 66_20M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch132322（Z）

Communication System: LTE; Frequency: 683 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

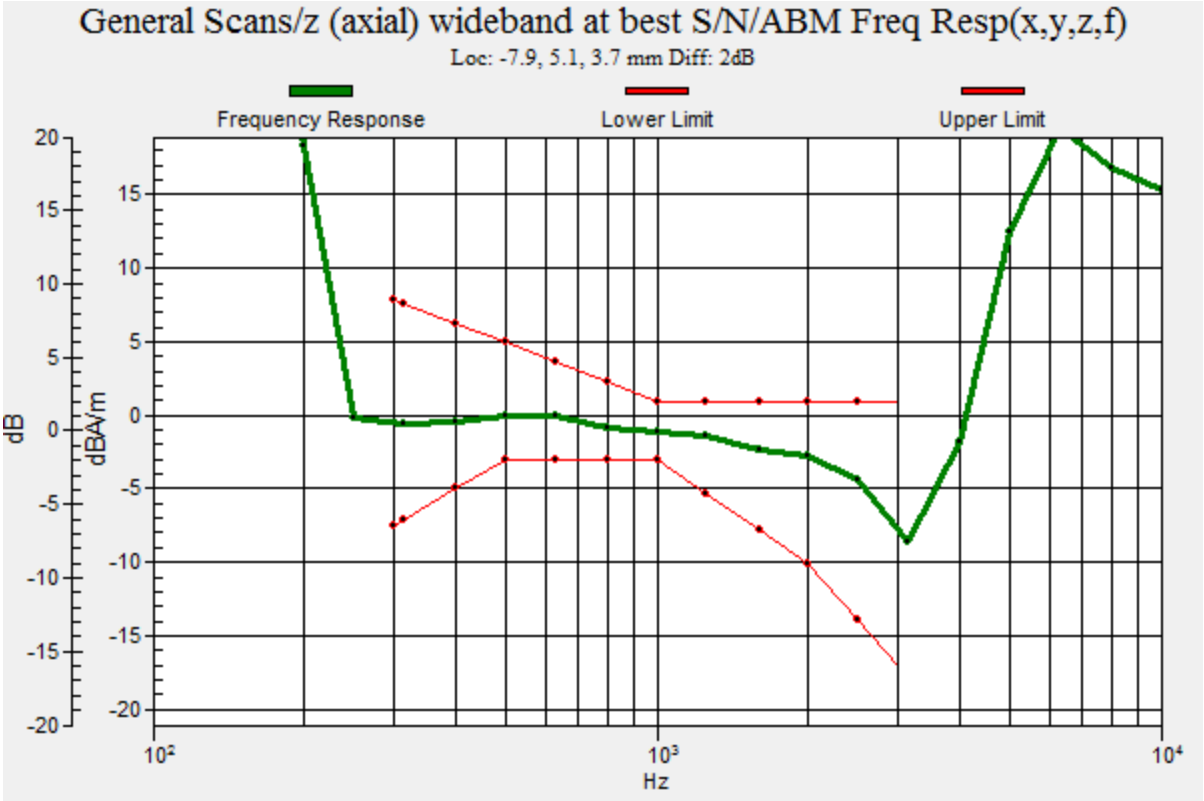
DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 37.32 dB
ABM1 comp = -2.40 dBA/m
Location: -7.9, 5, 3.7 mm



0 dB = 1.000 = 0.00 dB

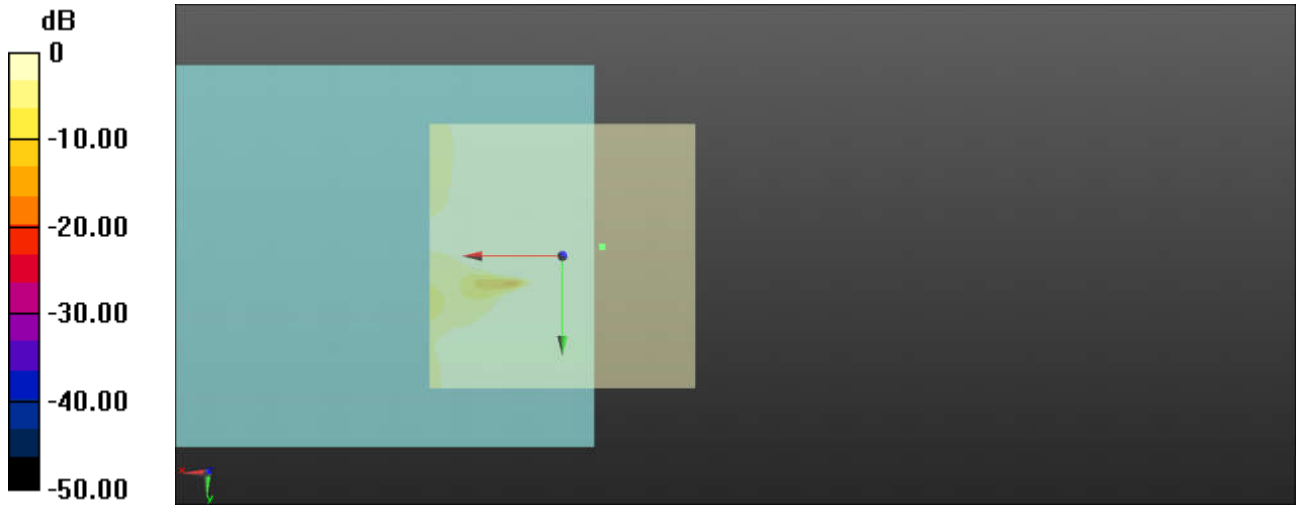

General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -7.9, 5.1, 3.7 mm Diff: 2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

11_HAC_T-Coil_LTE Band 66_20M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch132322 （Y）

Communication System: LTE; Frequency: 683 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 36.01 dB
ABM1 comp = -8.14 dBA/m
Location: -7.5, -1.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

Test Laboratory: Sporton International Inc. SAR/HAC Testing Lab Date: 2018.8.23

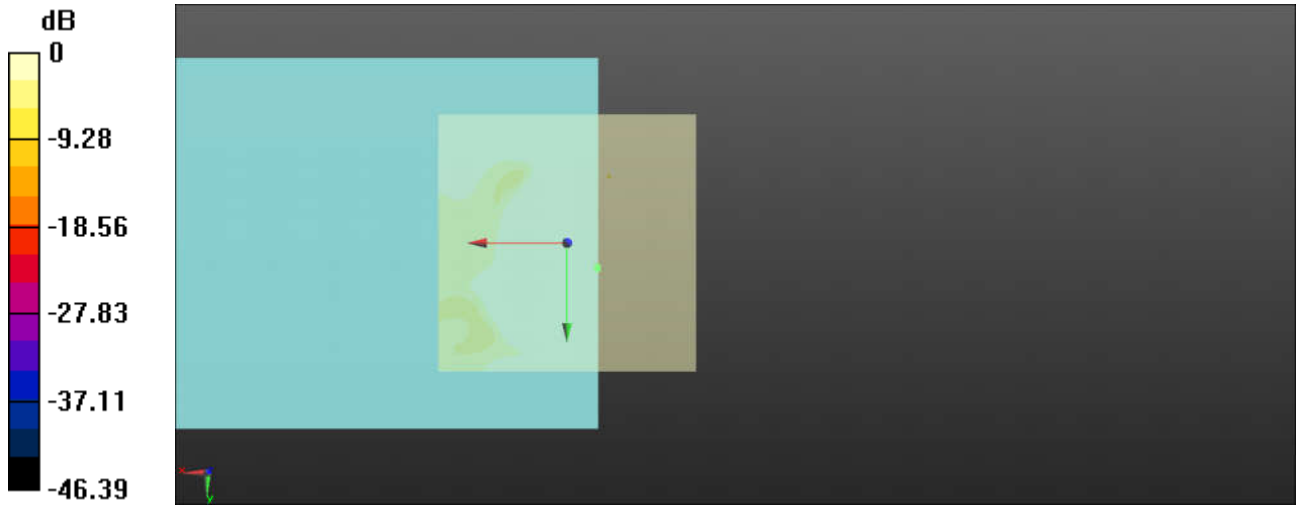
12_HAC_T-Coil_LTE Band 71_20M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch133322（Z）

Communication System: LTE; Frequency: 683 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

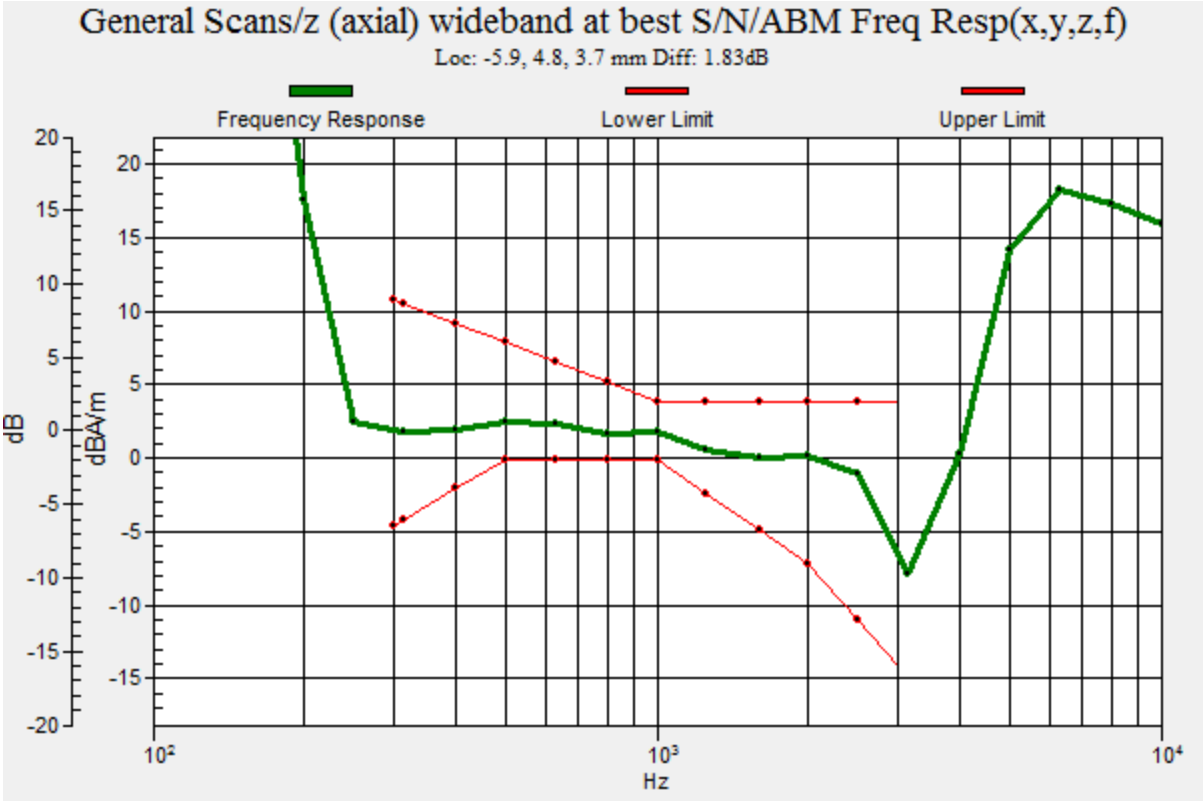
DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 36.74 dB
ABM1 comp = 0.18 dBA/m
Location: -5.8, 5, 3.7 mm



0 dB = 1.000 = 0.00 dB

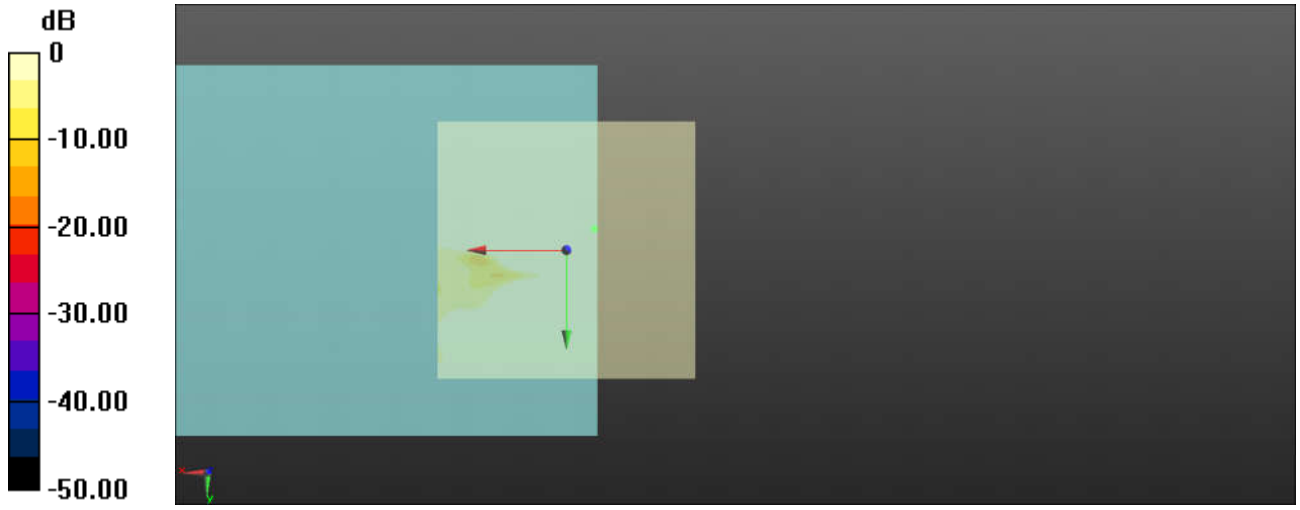

General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -5.9, 4.8, 3.7 mm Diff: 1.83dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

12_HAC_T-Coil_LTE Band 71_20M_QPSK_1RB_0Offset_WB AMR 6.60Kbps_Ch133322（Y）

Communication System: LTE; Frequency: 683 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3093; ; Calibrated: 2018.5.25
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1358; Calibrated: 2018.4.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 40.60 dB
ABM1 comp = -5.64 dBA/m
Location: -5.4, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

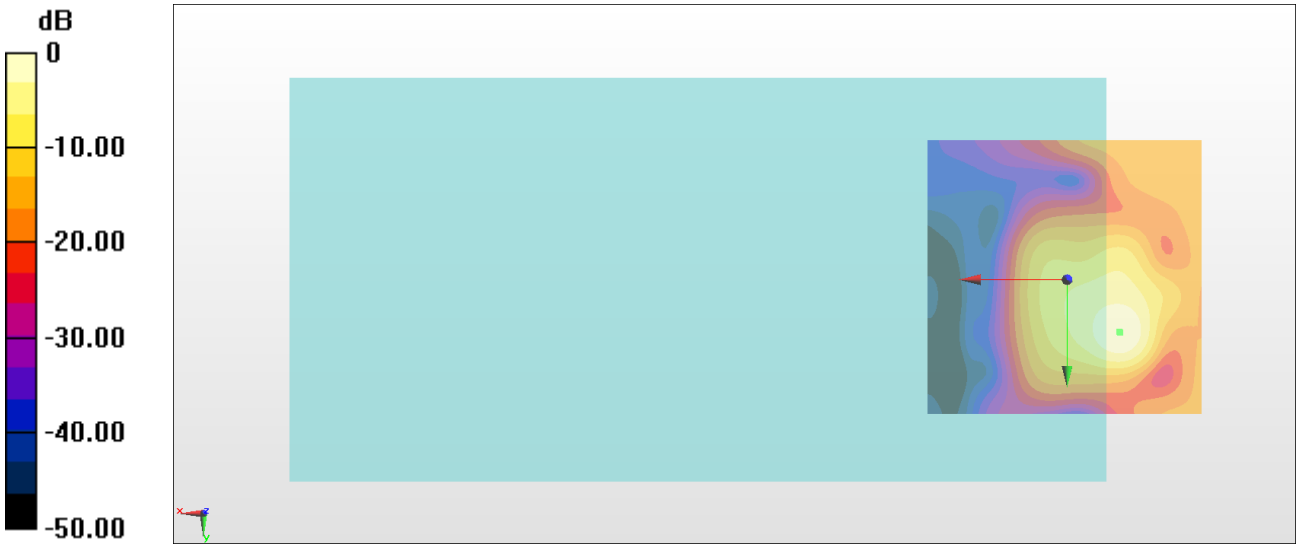
#13_HAC_T-Coil_WLAN2.4GHz_802.11b 1Mbps_Ch6_Axial (Z)

Communication System: 802.11b ; Frequency: 2437 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

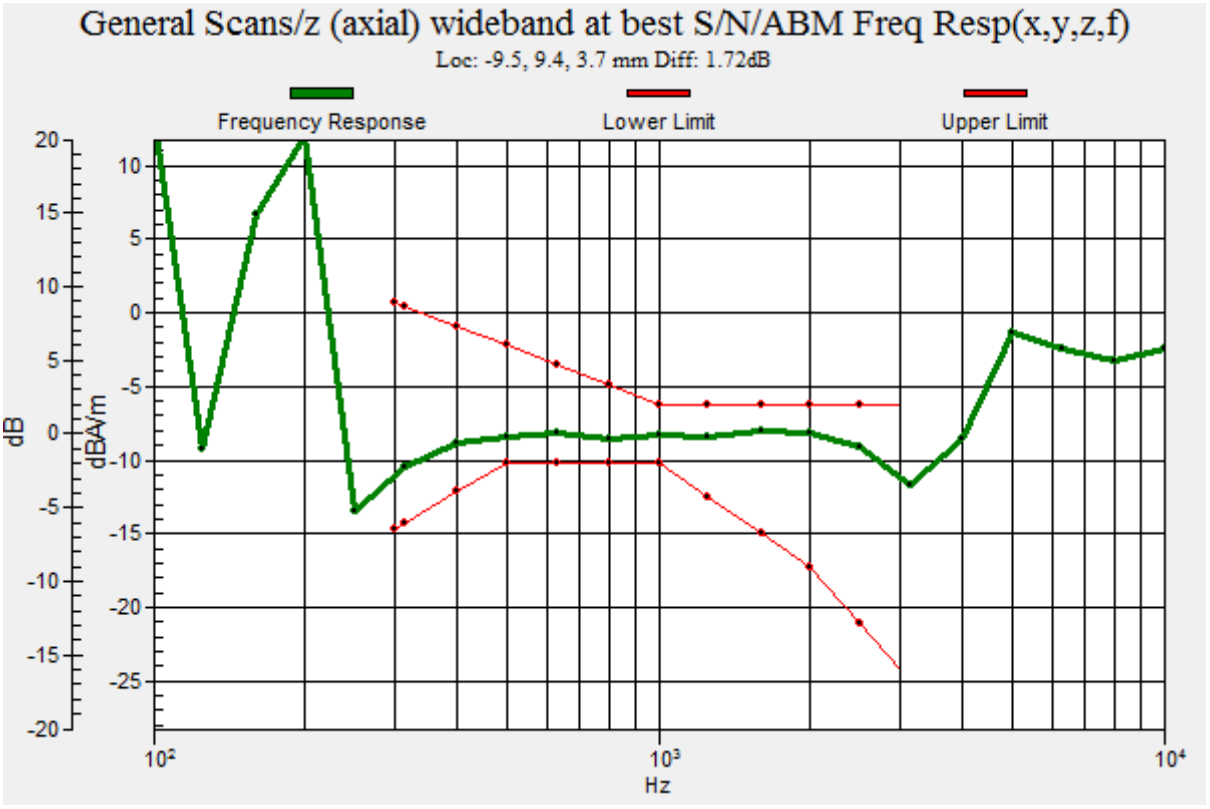
DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 35.51 dB
ABM1 comp = -8.11 dBA/m
Location: -9.3, 9.3, 3.7 mm



0 dB = 59.65 = 35.51 dB


General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -9.5, 9.4, 3.7 mm Diff: 1.72dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
-25
10^2
10^3
10^4

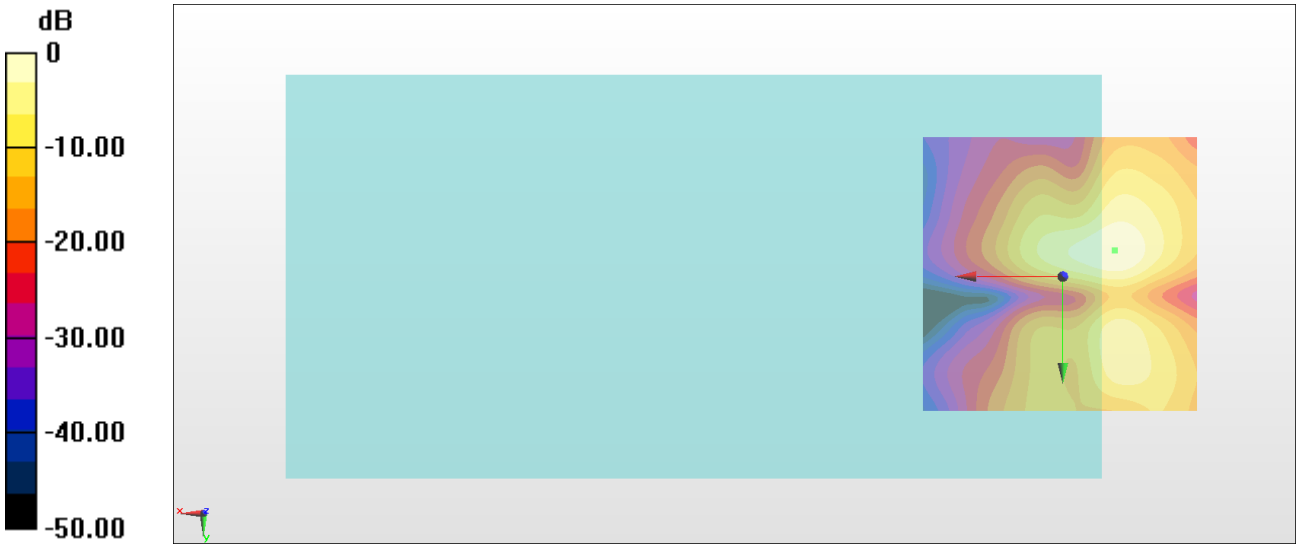
#13_HAC_T-Coil_WLAN2.4GHz_802.11b 1Mbps_Ch6_Transversal (Y)

Communication System: 802.11b ; Frequency: 2437 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 35.77 dB
ABM1 comp = -10.40 dBA/m
Location: -9.3, -4.7, 3.7 mm



0 dB = 61.41 = 35.77 dB

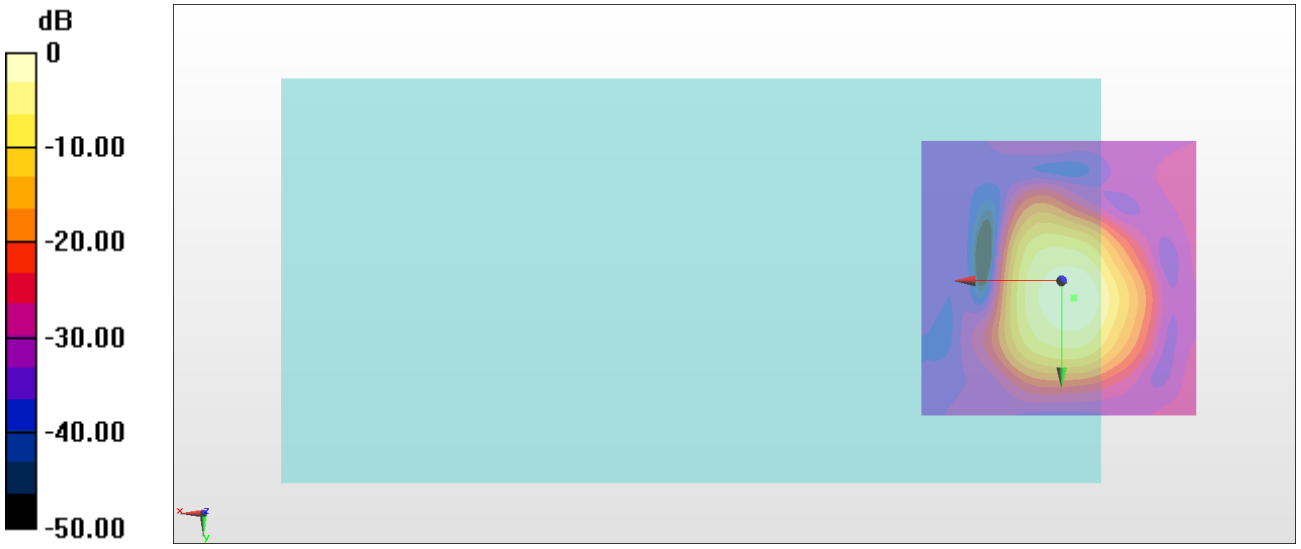
#14_HAC_T-Coil_GSM850_EDGE 2 Tx slots_Ch189_Axial (Z)

Communication System: GSM850 ; Frequency: 836.4 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

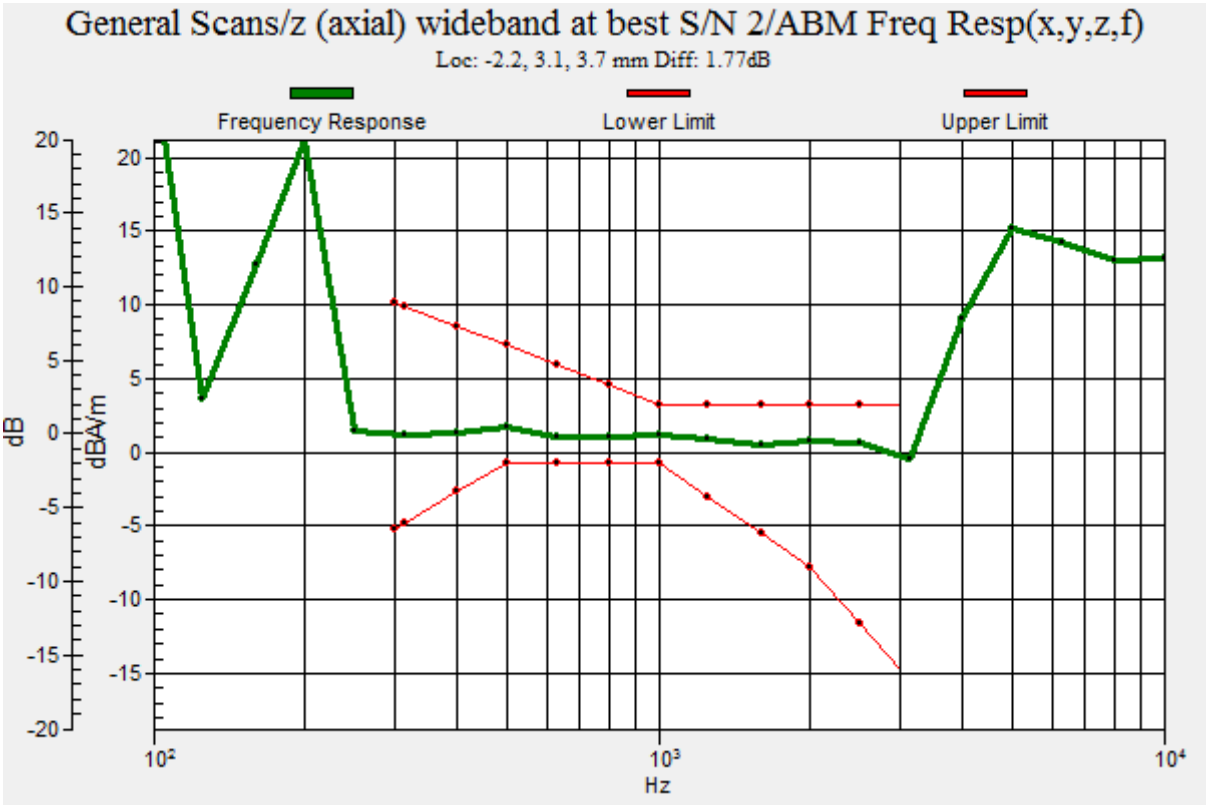
DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 27.98 dB
ABM1 comp = 3.52 dBA/m
Location: -2.3, 3, 3.7 mm



0 dB = 25.05 = 27.98 dB


General Scans/z (axial) wideband at best S/N 2/ABM Freq Resp(x,y,z,f)
Loc: -2.2, 3.1, 3.7 mm Diff: 1.77dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10²
10³
10⁴

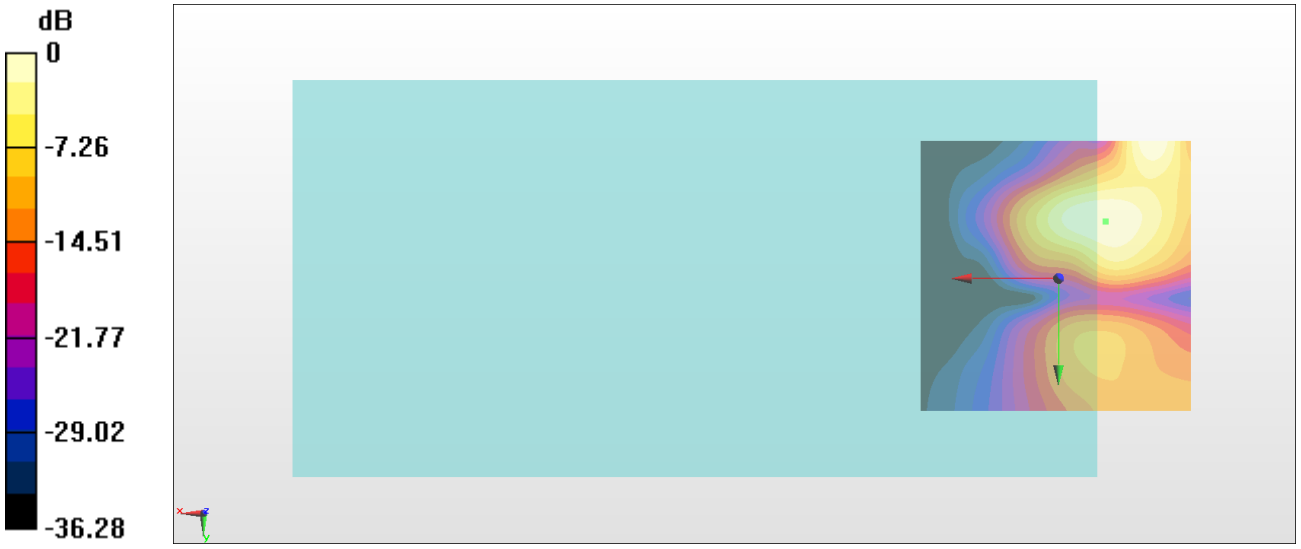
#14_HAC_T-Coil_GSM850_EDGE 2 Tx slots_Ch189_Transversal (Y)

Communication System: GSM850 ; Frequency: 836.4 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 28.59 dB
ABM1 comp = -10.54 dBA/m
Location: -8.6, -10.3, 3.7 mm



0 dB = 26.88 = 28.59 dB

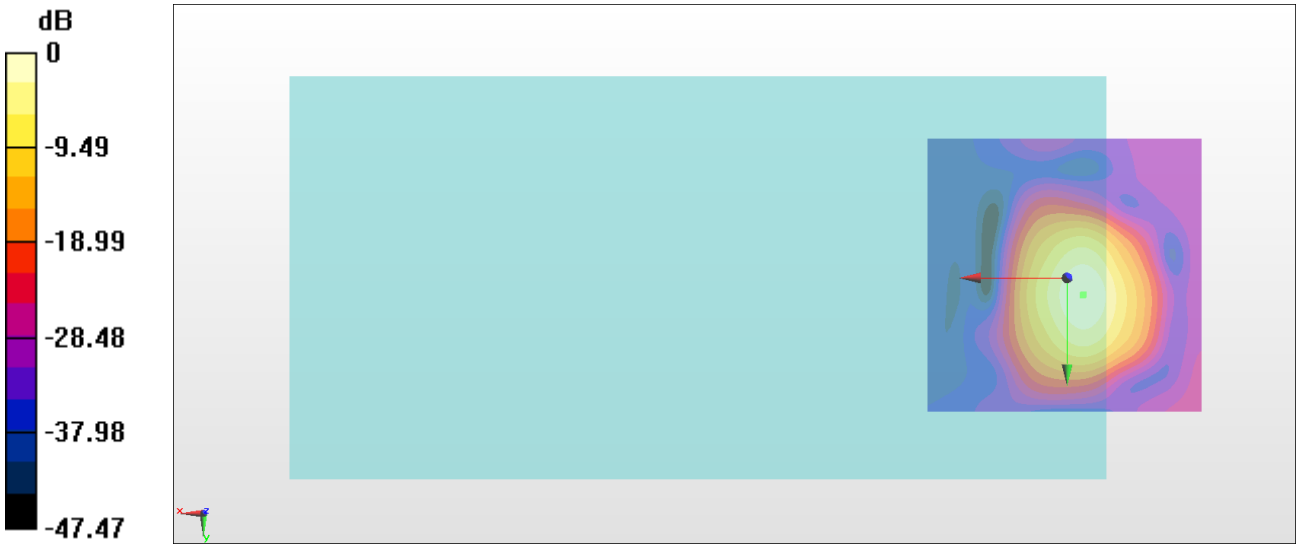
#15_HAC_T-Coil_GSM1900_EDGE 2 Tx slots_Ch661_Axial (Z)

Communication System: PCS ; Frequency: 1880 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

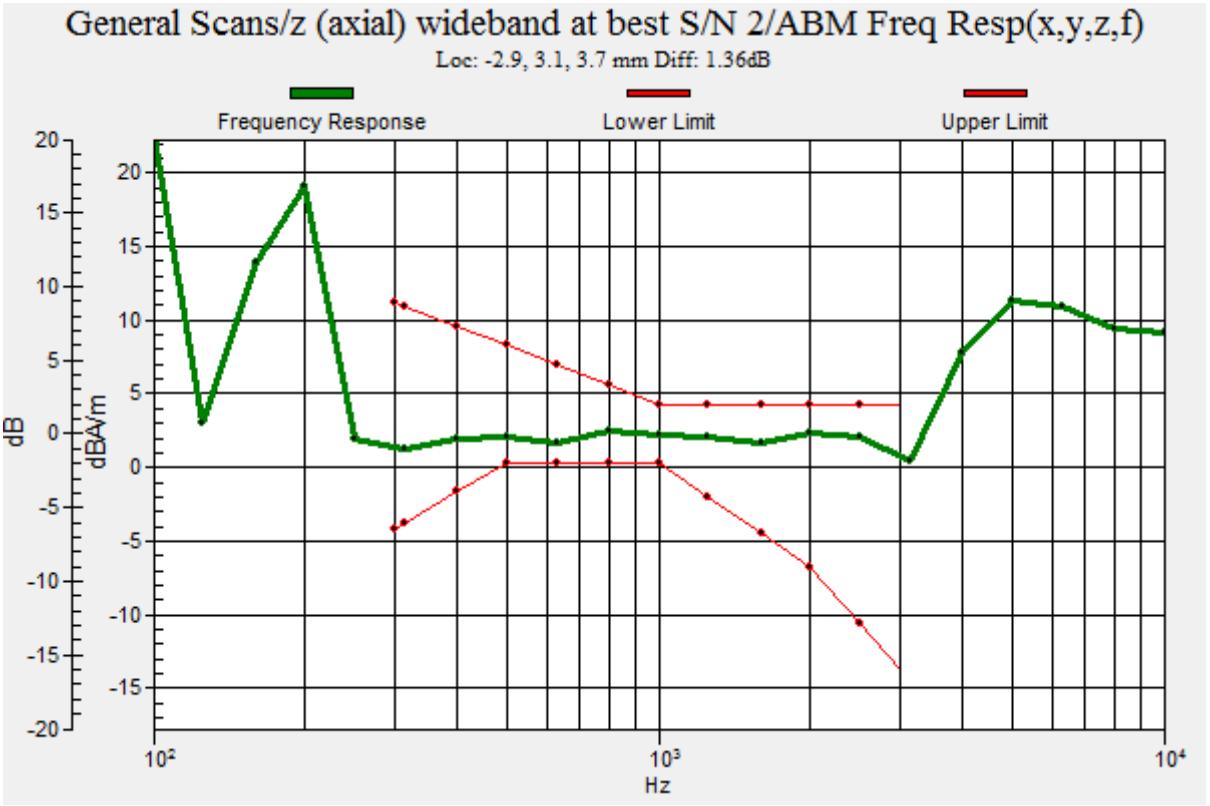
DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 31.89 dB
ABM1 comp = 3.21 dBA/m
Location: -3, 3, 3.7 mm



0 dB = 39.30 = 31.89 dB


General Scans/z (axial) wideband at best S/N 2/ABM Freq Resp(x,y,z,f)
Loc: -2.9, 3.1, 3.7 mm Diff: 1.36dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10²
10³
10⁴

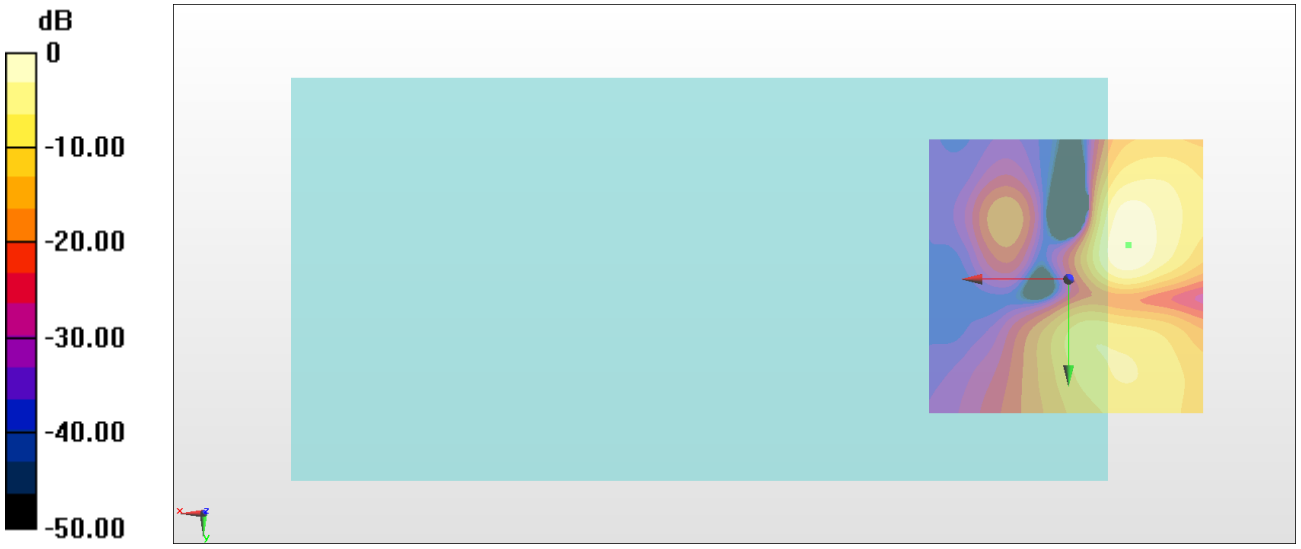
#15_HAC_T-Coil_GSM1900_EDGE 2 Tx slots_Ch661_Transversal (Y)

Communication System: PCS ; Frequency: 1880 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 30.43 dB
ABM1 comp = -10.57 dBA/m
Location: -10.7, -6.1, 3.7 mm



0 dB = 33.22 = 30.43 dB

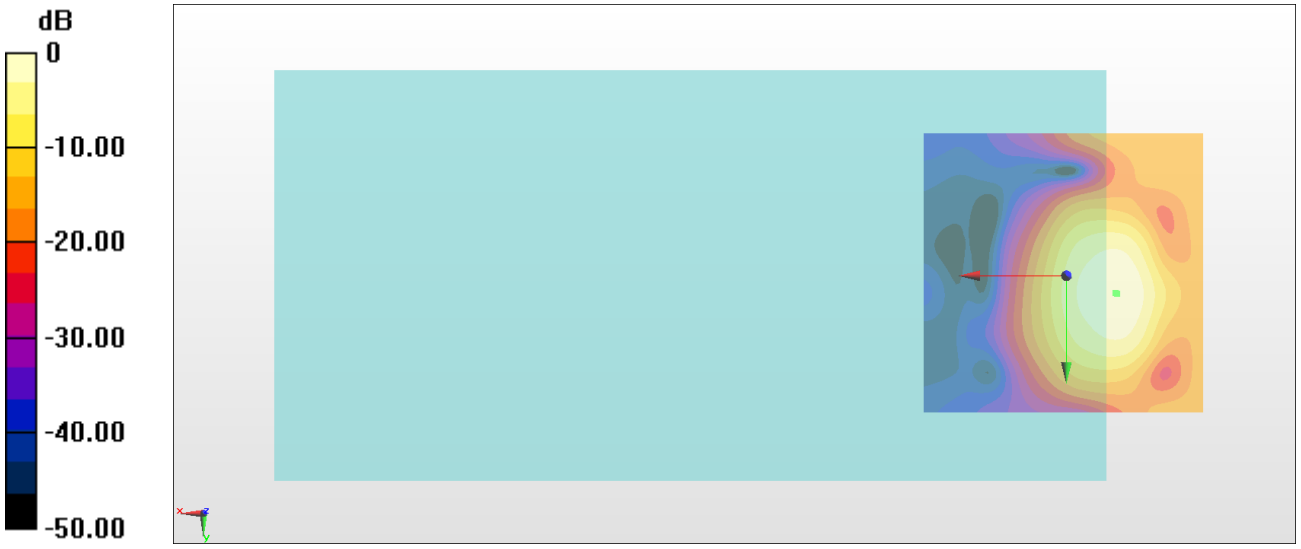
#16_HAC_T-Coil_WCDMA II_HSPA_Ch9400_Axial (Z)

Communication System: WCDMA ; Frequency: 1880 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

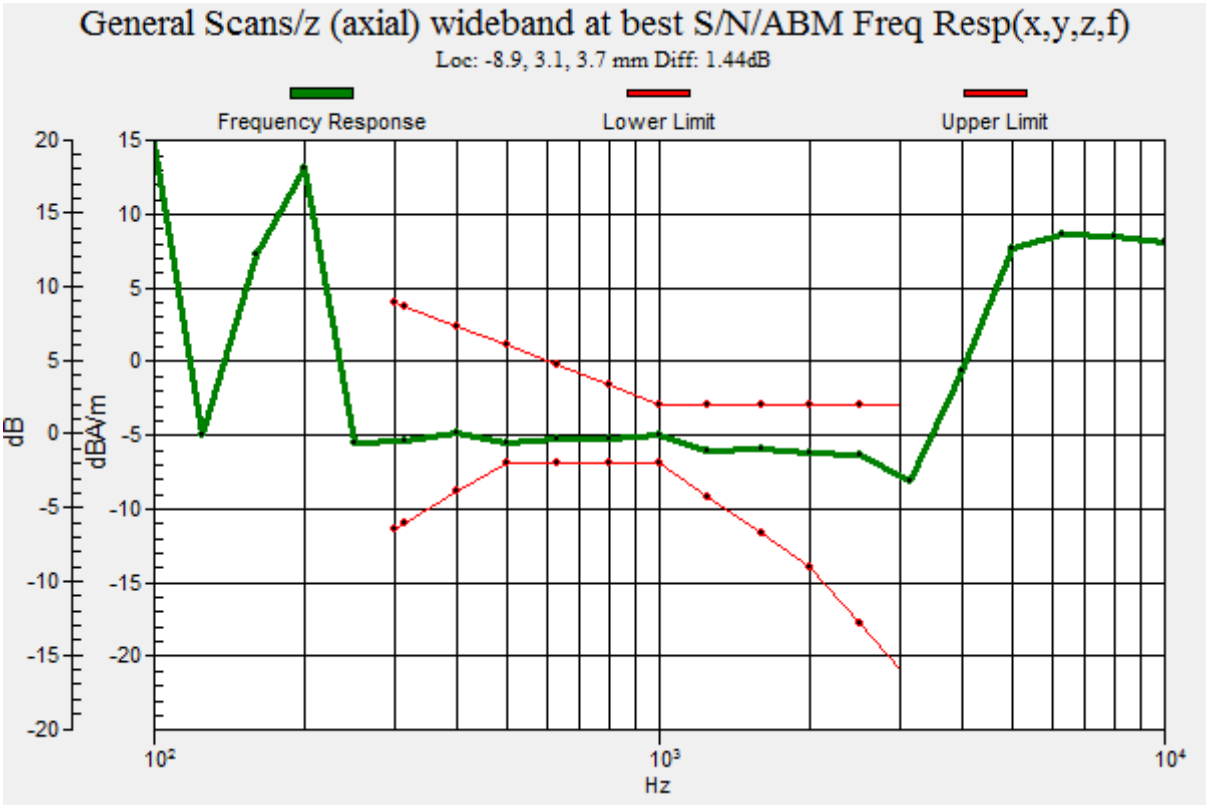
DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 34.54 dB
ABM1 comp = -2.50 dBA/m
Location: -8.6, 3, 3.7 mm



0 dB = 53.36 = 34.54 dB


General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.9, 3.1, 3.7 mm Diff: 1.44dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4

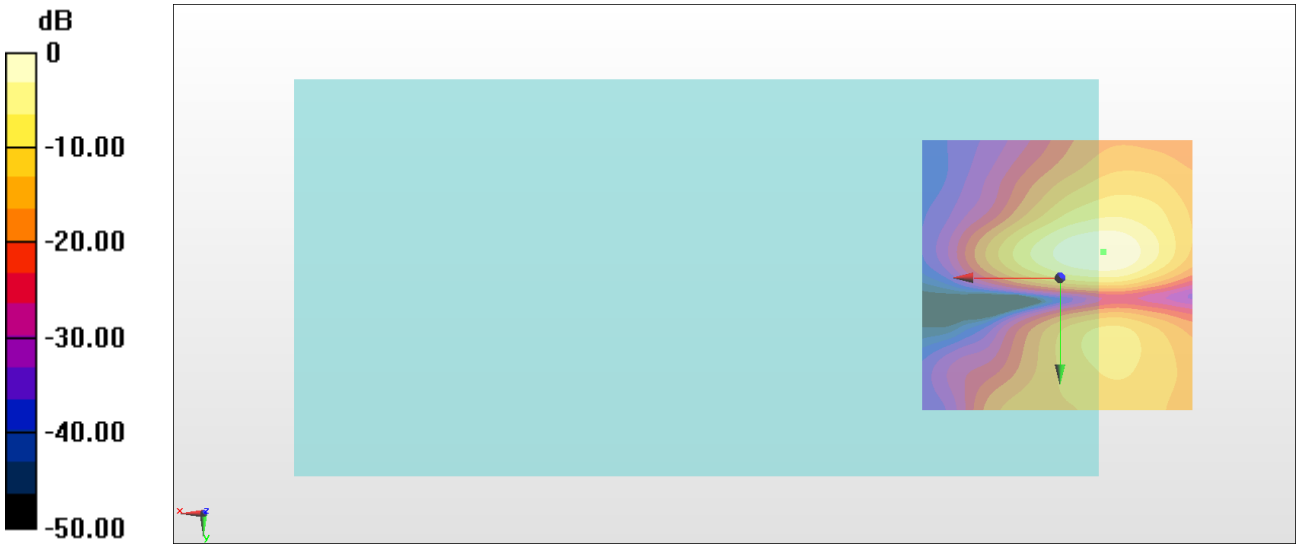
#16_HAC_T-Coil_WCDMA II_HSPA_Ch9400_Transversal (Y)

Communication System: WCDMA ; Frequency: 1880 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 35.42 dB
ABM1 comp = -7.95 dBA/m
Location: -7.9, -4.7, 3.7 mm



0 dB = 59.03 = 35.42 dB

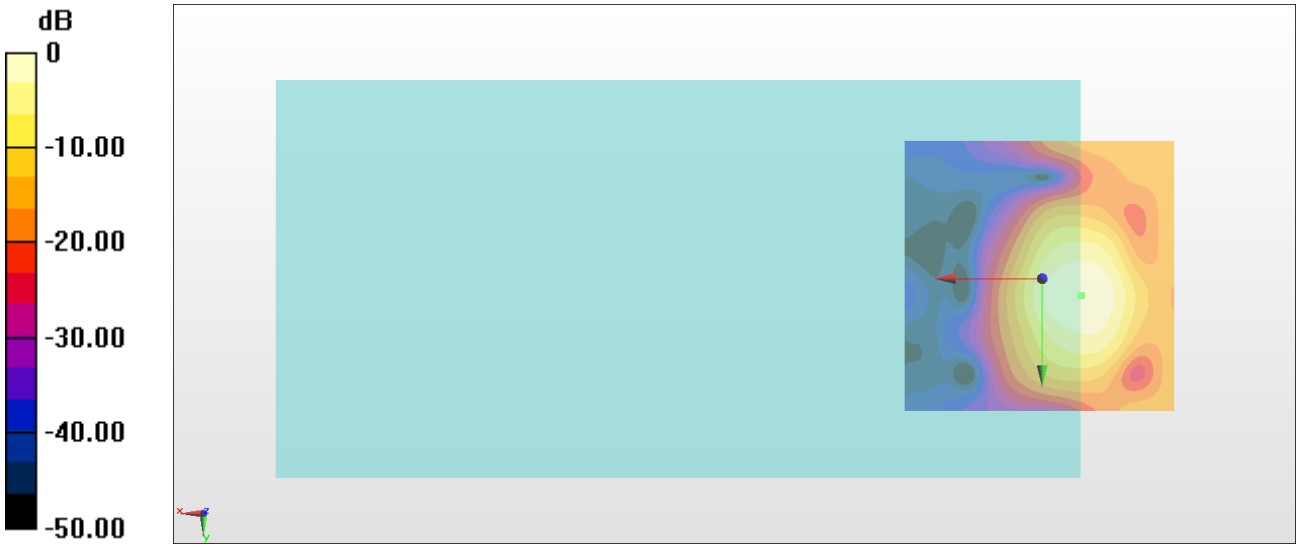
#17_HAC_T-Coil_WCDMA IV_HSPA_Ch1413_Axial (Z)

Communication System: WCDMA ; Frequency: 1732.6 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

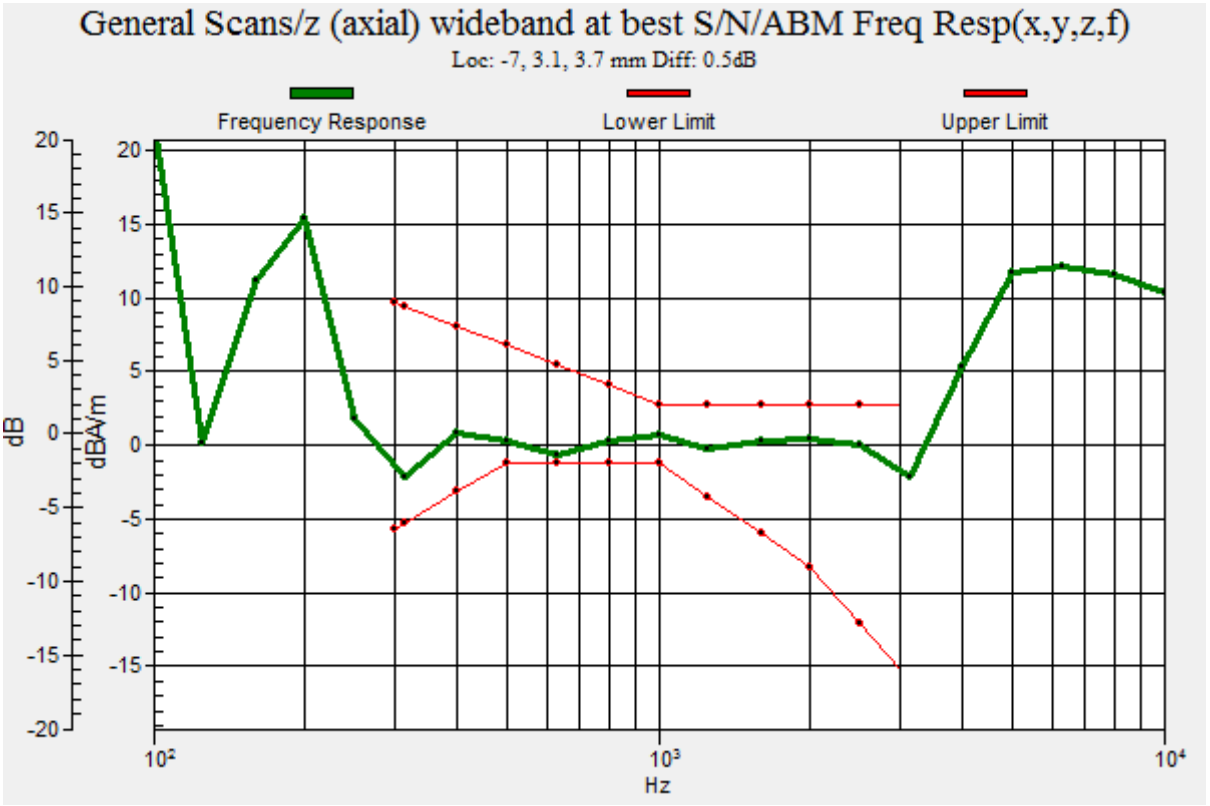
DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 33.83 dB
ABM1 comp = 0.69 dBA/m
Location: -7.2, 3, 3.7 mm



0 dB = 49.17 = 33.83 dB


General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -7, 3.1, 3.7 mm Diff: 0.5dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4
Hz

#17_HAC_T-Coil_WCDMA IV_HSPA_Ch1413_Transversal (Y)

Communication System: WCDMA ; Frequency: 1732.6 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 35.11 dB
ABM1 comp = -7.69 dBA/m
Location: -7.9, -4.7, 3.7 mm

0 dB = 56.96 = 35.11 dB

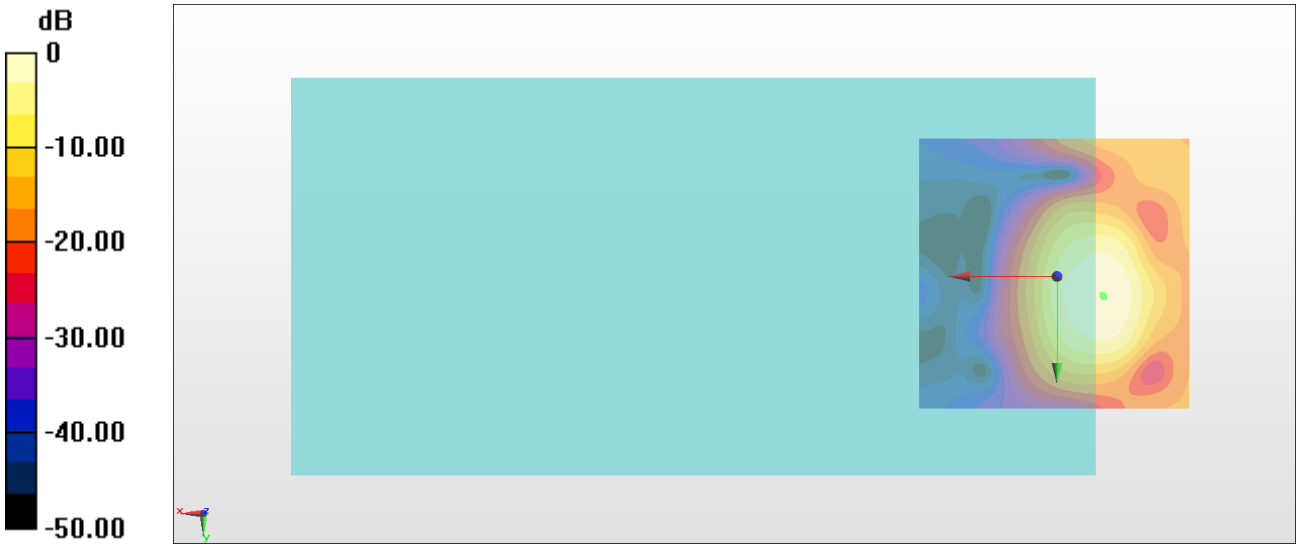
#18_HAC_T-Coil_WCDMA V_HSPA_Ch4182_Axial (Z)

Communication System: WCDMA ; Frequency: 836.4 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

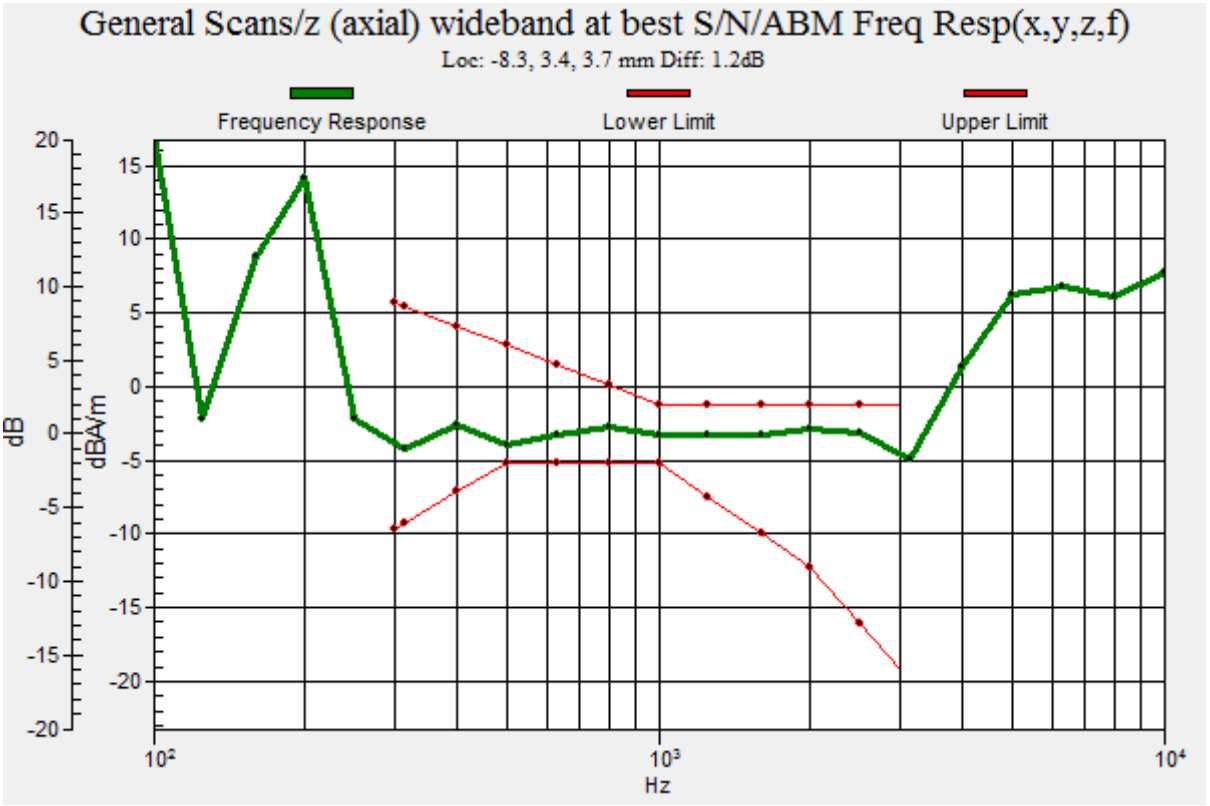
DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 36.01 dB
ABM1 comp = -2.11 dBA/m
Location: -8.6, 3.7, 3.7 mm



0 dB = 63.18 = 36.01 dB


General Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.3, 3.4, 3.7 mm Diff: 1.2dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10^2
10^3
10^4

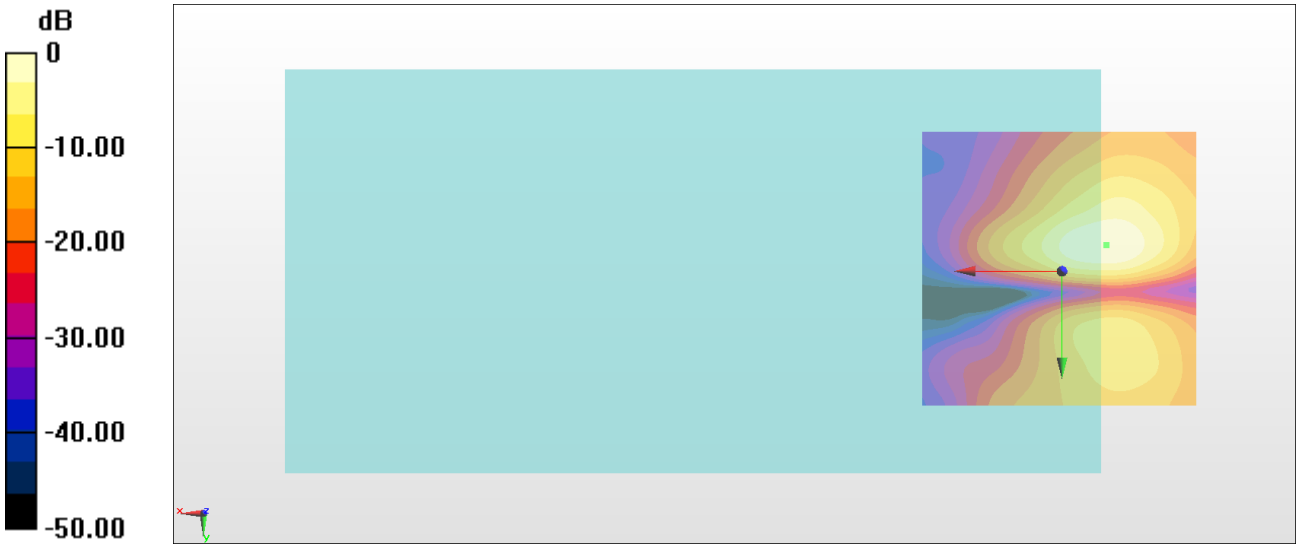
#18_HAC_T-Coil_WCDMA V_HSPA_Ch4182_Transversal (Y)

Communication System: WCDMA ; Frequency: 836.4 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 36.02 dB
ABM1 comp = -7.97 dBA/m
Location: -7.9, -4.7, 3.7 mm



0 dB = 63.26 = 36.02 dB

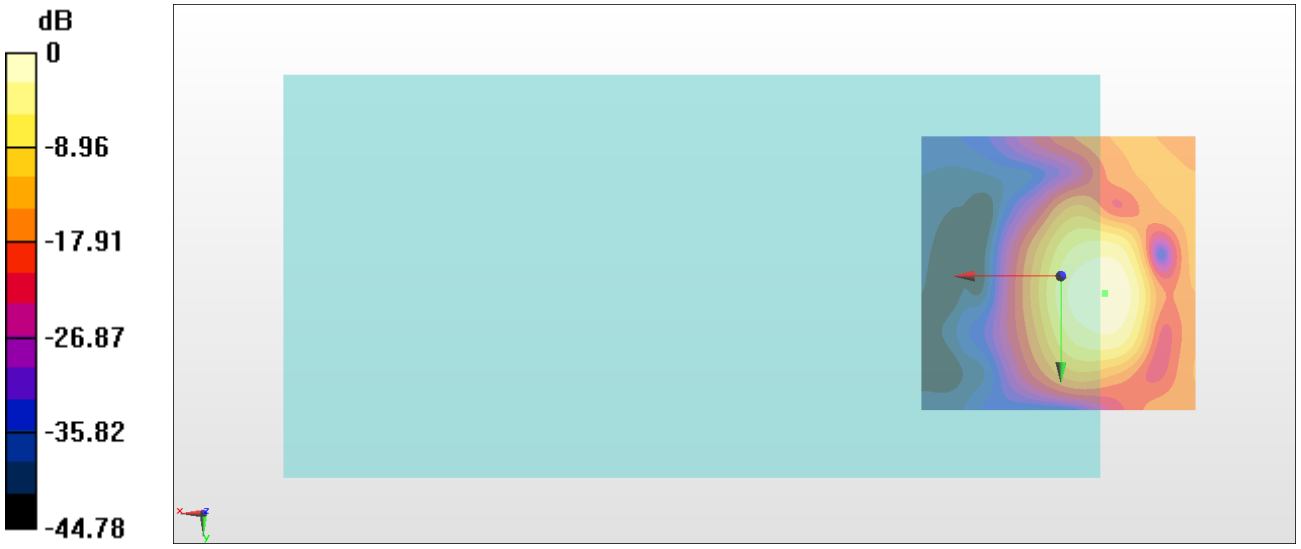
#19_HAC_T-Coil_LTE Band 2_20M_QPSK_1_0_Ch18900_Axial (Z)

Communication System: LTE ; Frequency: 1880 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

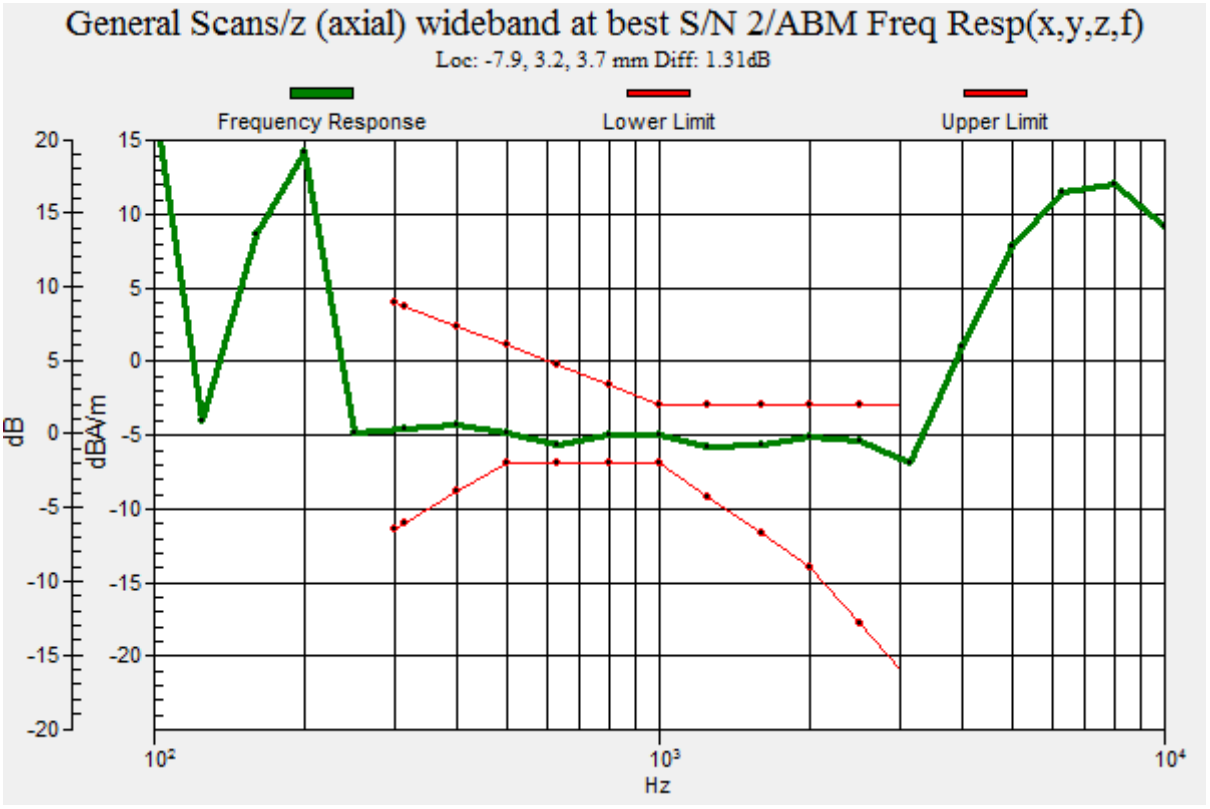
DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2017/11/16
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 33.59 dB
ABM1 comp = -1.84 dBA/m
Location: -7.9, 3, 3.7 mm



0 dB = 47.79 = 33.59 dB


General Scans/z (axial) wideband at best S/N 2/ABM Freq Resp(x,y,z,f)
Loc: -7.9, 3.2, 3.7 mm Diff: 1.31dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴

#19_HAC_T-Coil_LTE Band 2_20M_QPSK_1_0_Ch18900_Transversal (Y)

Communication System: LTE ; Frequency: 1880 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.5 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1399; Calibrated: 2017/11/16
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 34.88 dB
ABM1 comp = -5.94 dBA/m
Location: -5.1, -4.7, 3.7 mm

0 dB = 55.49 = 34.88 dB

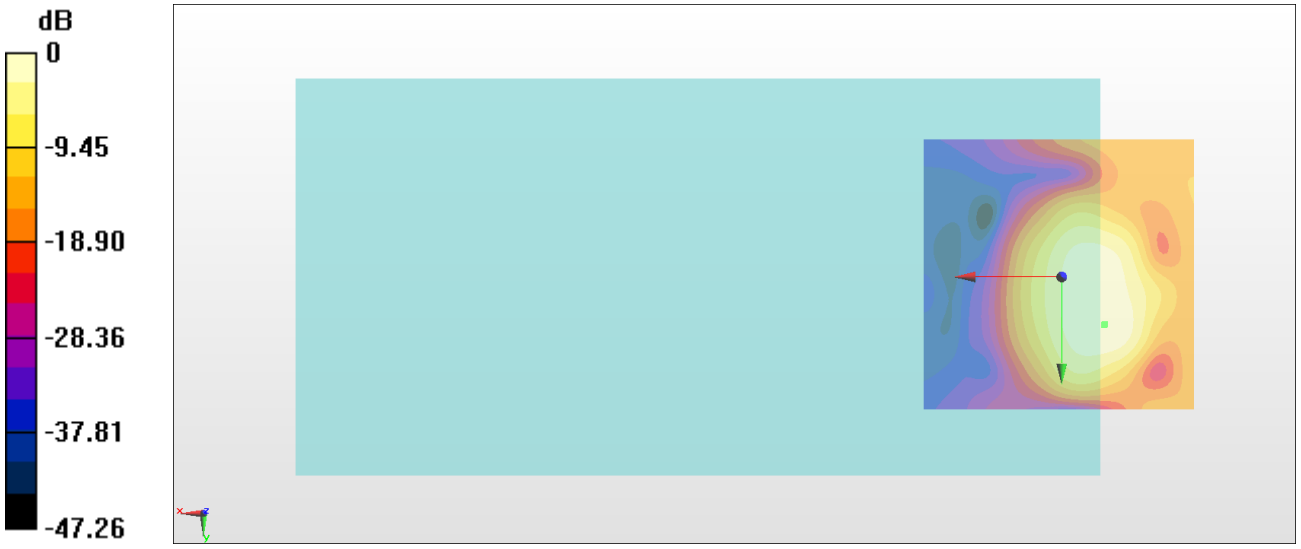
#20_HAC_T-Coil_WLAN2.4GHz_802.11b 1Mbps_Ch6_Axial (Z)

Communication System: 802.11b ; Frequency: 2437 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

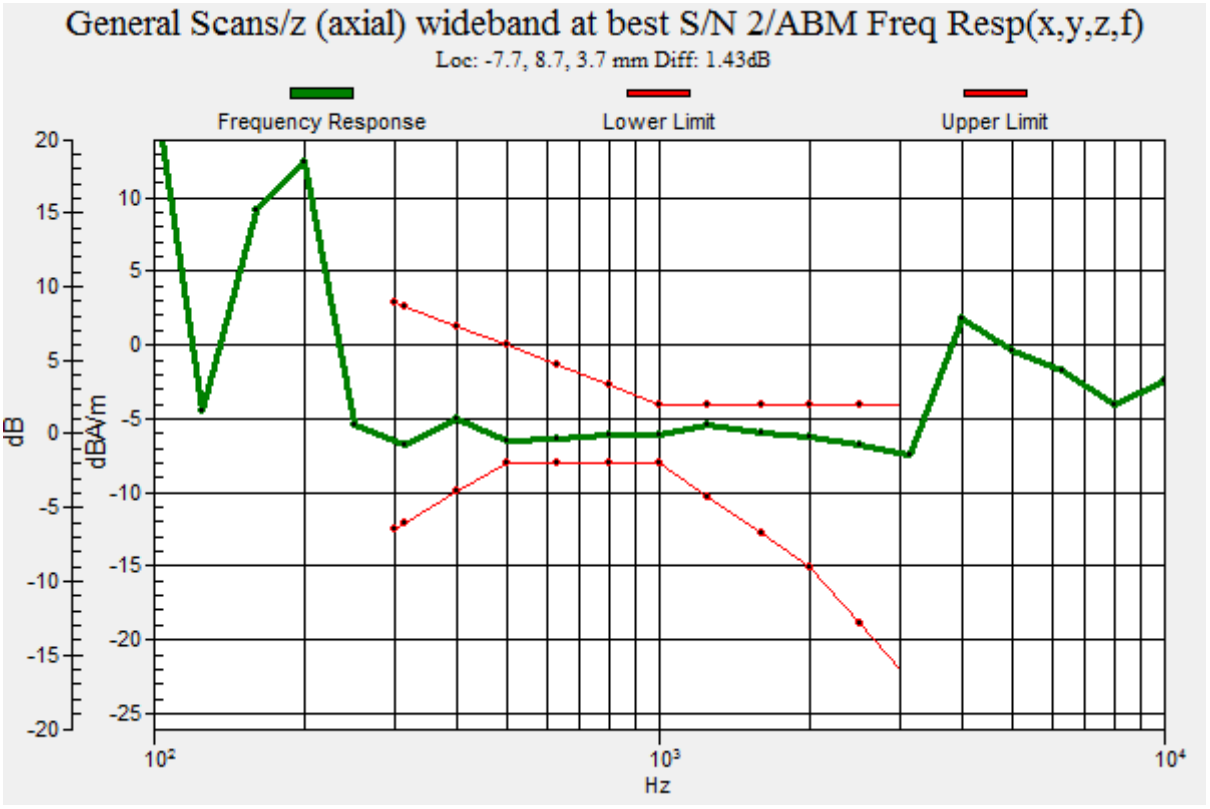
DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 32.10 dB
ABM1 comp = -5.93 dBA/m
Location: -7.9, 8.6, 3.7 mm



0 dB = 40.27 = 32.10 dB


General Scans/z (axial) wideband at best S/N 2/ABM Freq Resp(x,y,z,f)
Loc: -7.7, 8.7, 3.7 mm Diff: 1.43dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
10
5
0
-5
-10
-15
-20
-25
10²
10³
10⁴

#20_HAC_T-Coil_WLAN2.4GHz_802.11b 1Mbps_Ch6_Transversal (Y)

Communication System: 802.11b ; Frequency: 2437 MHz
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.7 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3130; ; Calibrated: 2017/11/21
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1424; Calibrated: 2018/1/18
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (0);SEMCAD X Version 14.6.10 (7417)

General Scans/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm
ABM1/ABM2 = 31.71 dB
ABM1 comp = -6.66 dBA/m
Location: -4.4, -4.7, 3.7 mm

0 dB = 38.48 = 31.71 dB