Annex C Plots of T-Coil Test Results

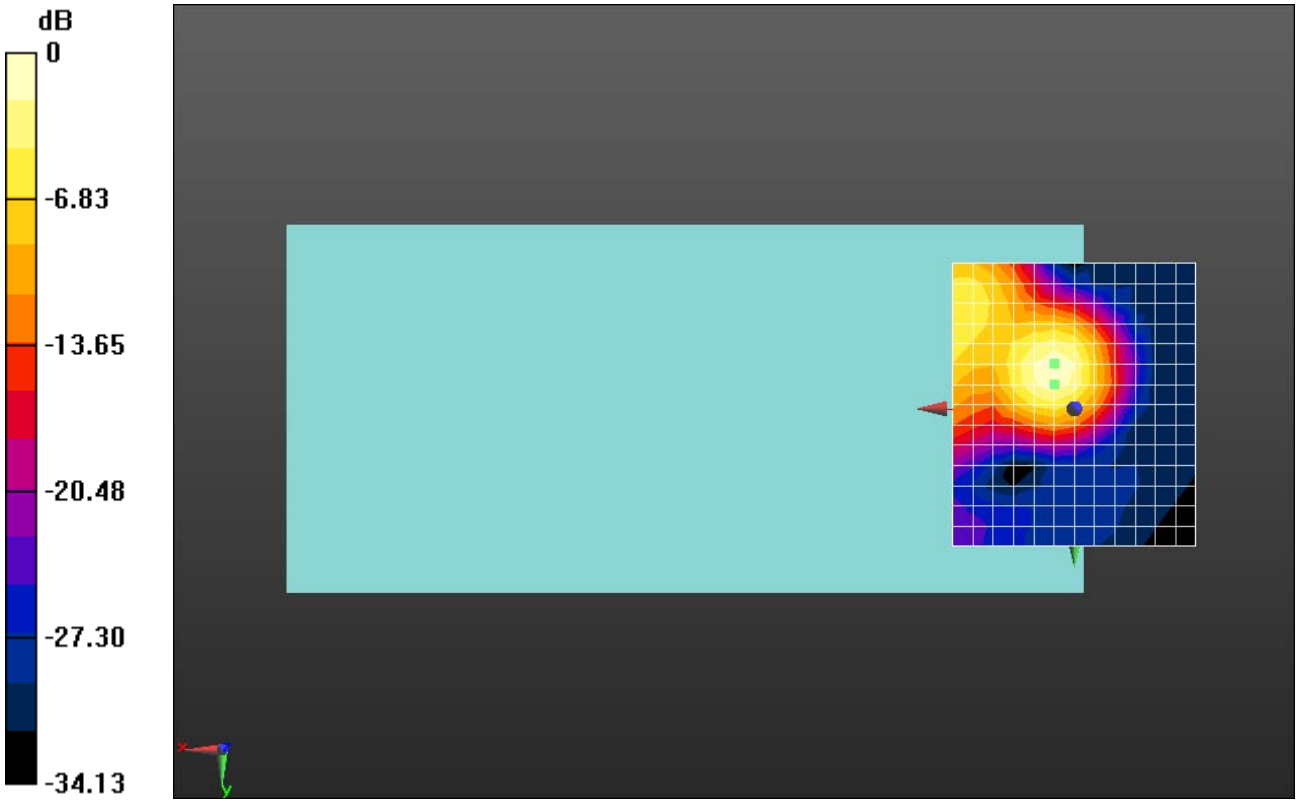
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.24

HAC_T-Coil_GSM850_GSM Voice_Ch189_Z

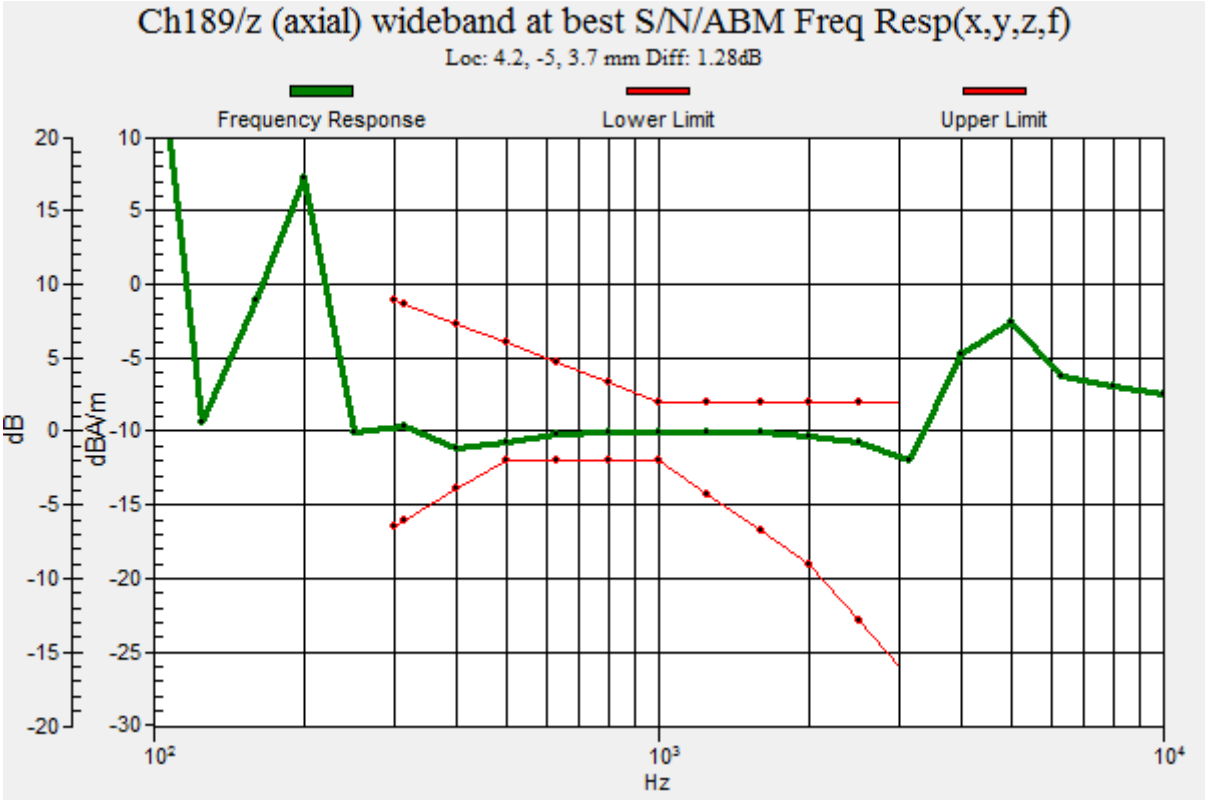
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 26.48 dB
ABM1 comp = 0.07 dBA/m
BWC Factor = 0.15 dB
Location: 4.2, -5, 3.7 mm



0 dB = 21.09 = 26.48 dB


Ch189/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.2, -5, 3.7 mm Diff: 1.28dB
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
-30
10²
10³
10⁴

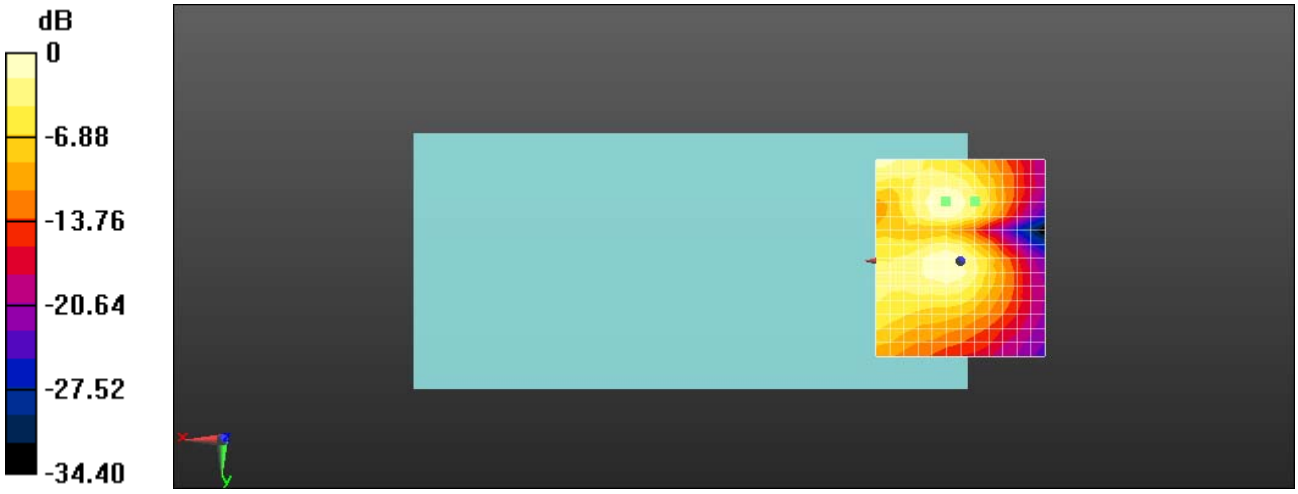
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.24

HAC_T-Coil_GSM850_GSM Voice_Ch189_Y

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 27.19 dB
ABM1 comp = -10.42 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 22.87 = 27.19 dB

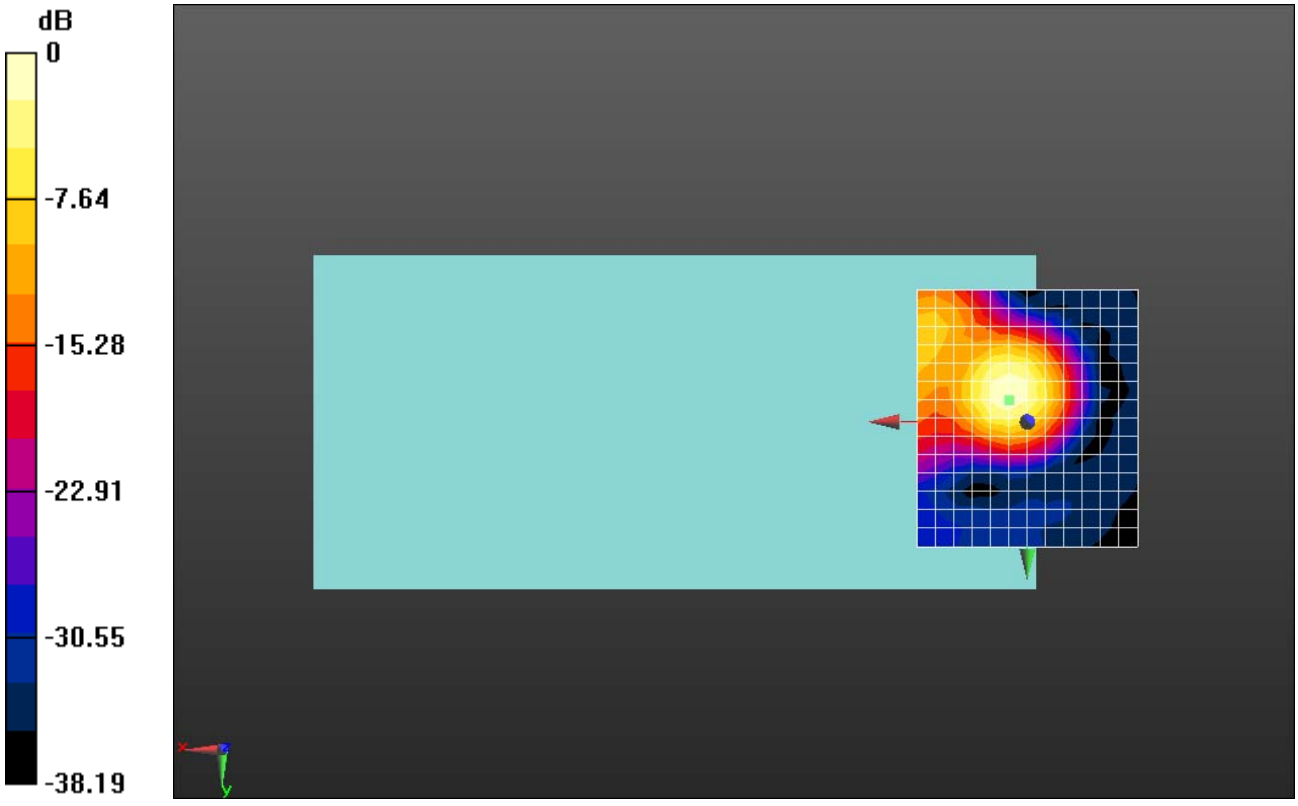
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_GSM1900_GSM Voice_Ch661_Z

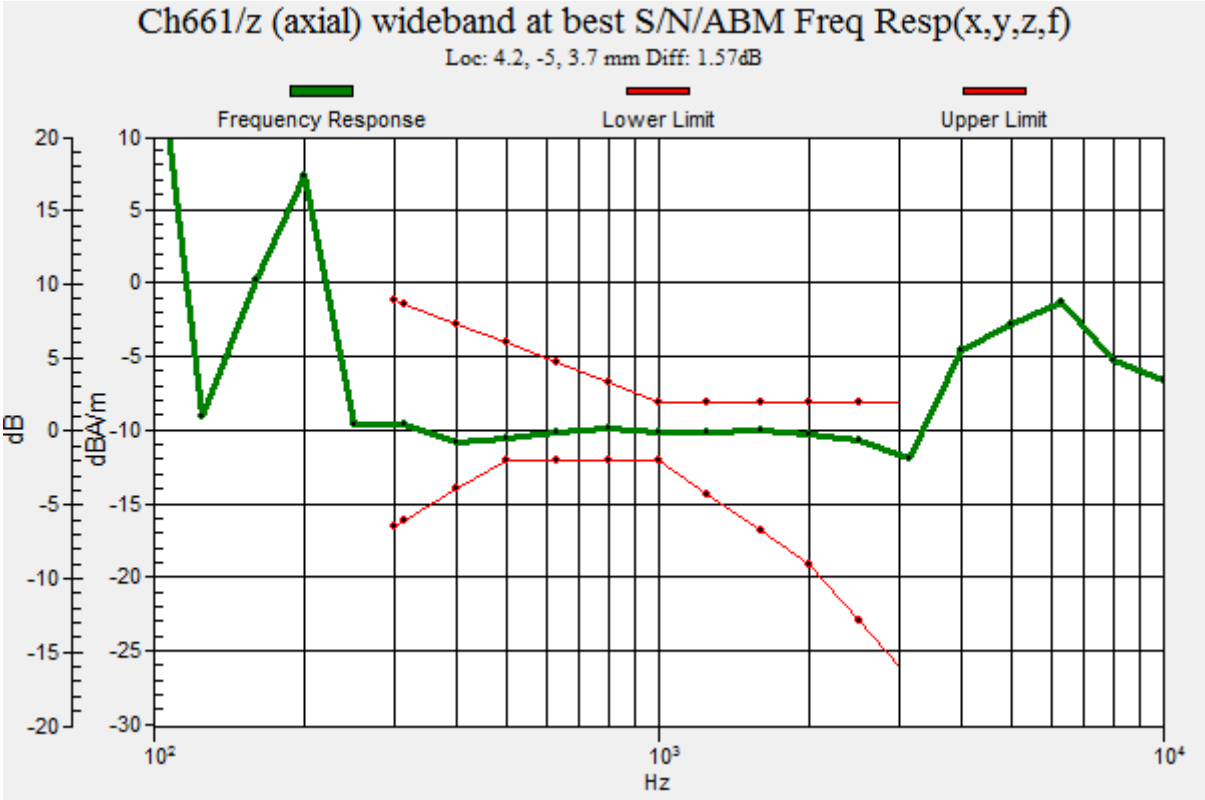
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 30.79 dB
ABM1 comp = 1.58 dBA/m
BWC Factor = 0.15 dB
Location: 4.2, -5, 3.7 mm



0 dB = 34.65 = 30.79 dB


Ch661/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.2, -5, 3.7 mm Diff: 1.57dB
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
-30
10²
10³
10⁴

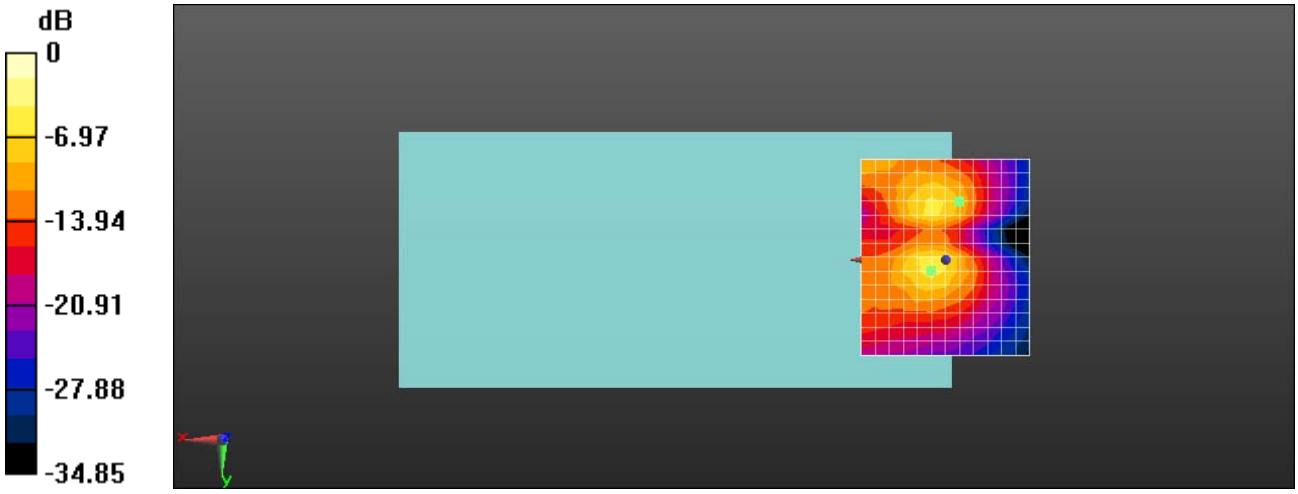
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_GSM1900_GSM Voice_Ch661_Y

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 27.72 dB
ABM1 comp = -10.56 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 24.31 = 27.72 dB

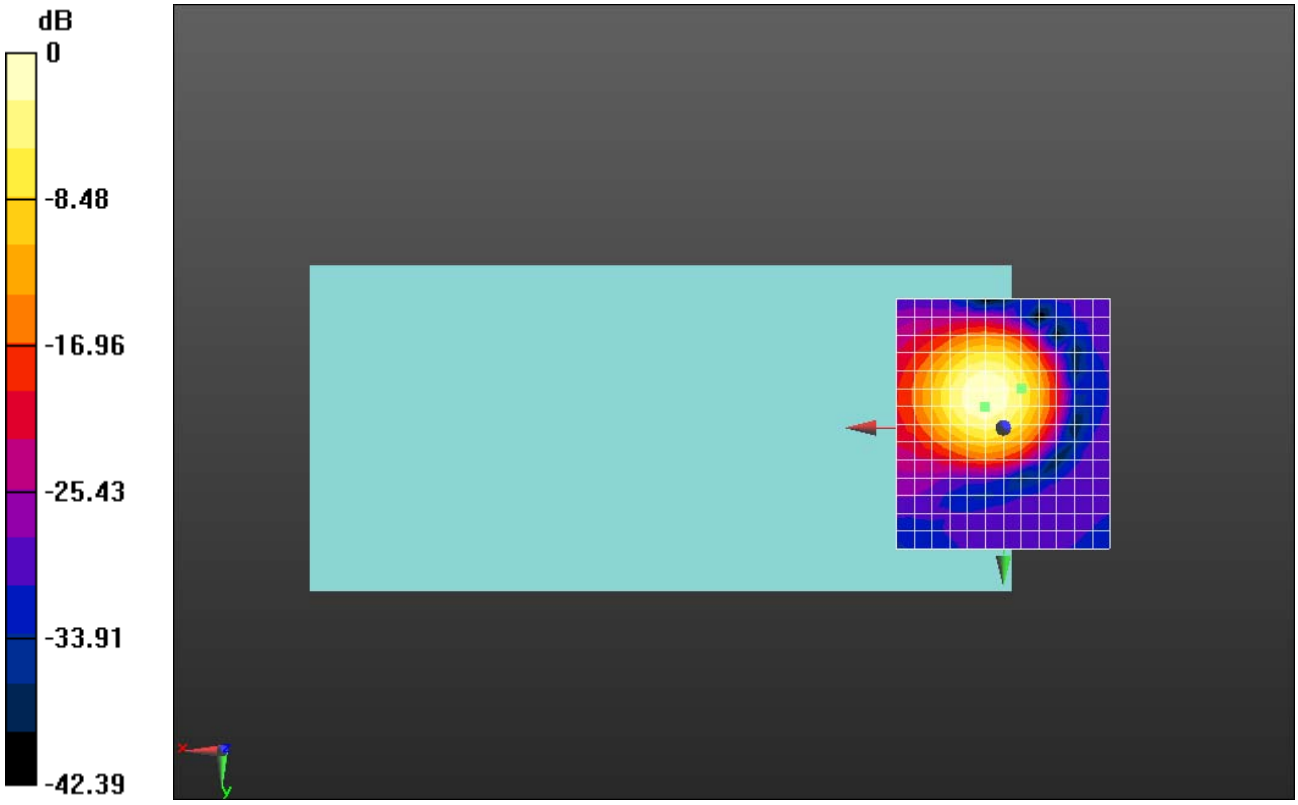
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_WCDMA Band II_AMR 12.12Kbps_Ch9400_Z

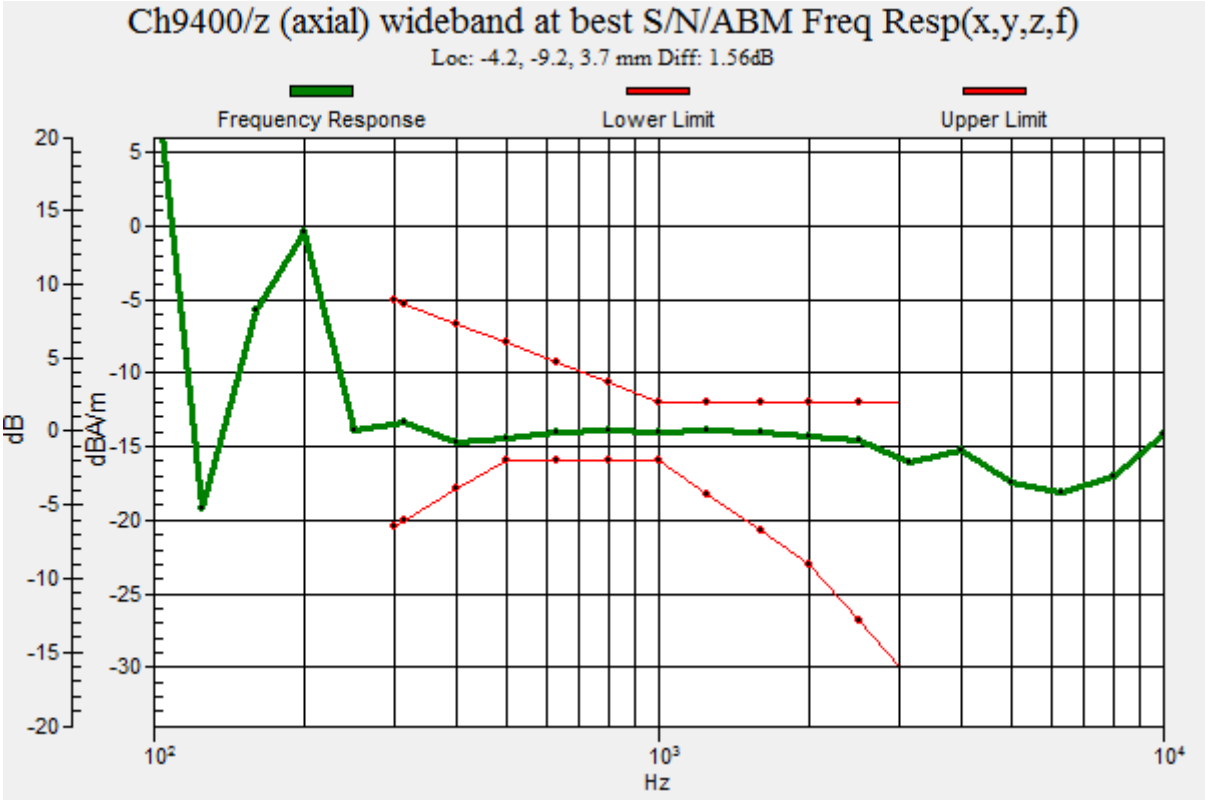
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz;Duty Cycle: 1:1.95434
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 45.37 dB
ABM1 comp = -3.99 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 185.6 = 45.37 dB


Ch9400/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -9.2, 3.7 mm Diff: 1.56dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

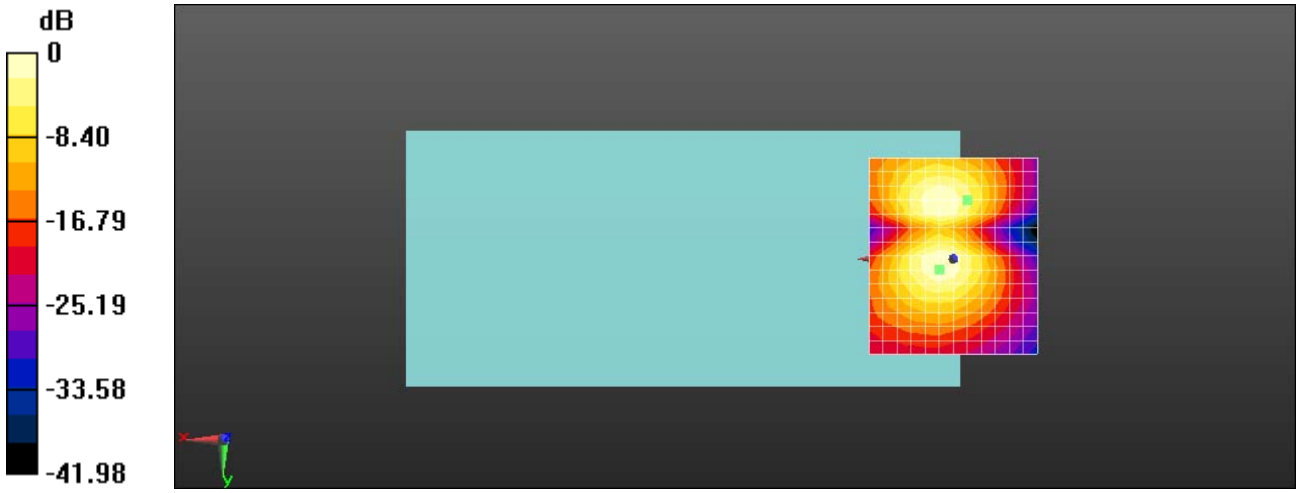
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_WCDMA Band II_AMR 12.12Kbps_Ch9400_Y

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz;Duty Cycle: 1:1.95434
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 41.97 dB
ABM1 comp = -8.83 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 125.5 = 41.97 dB

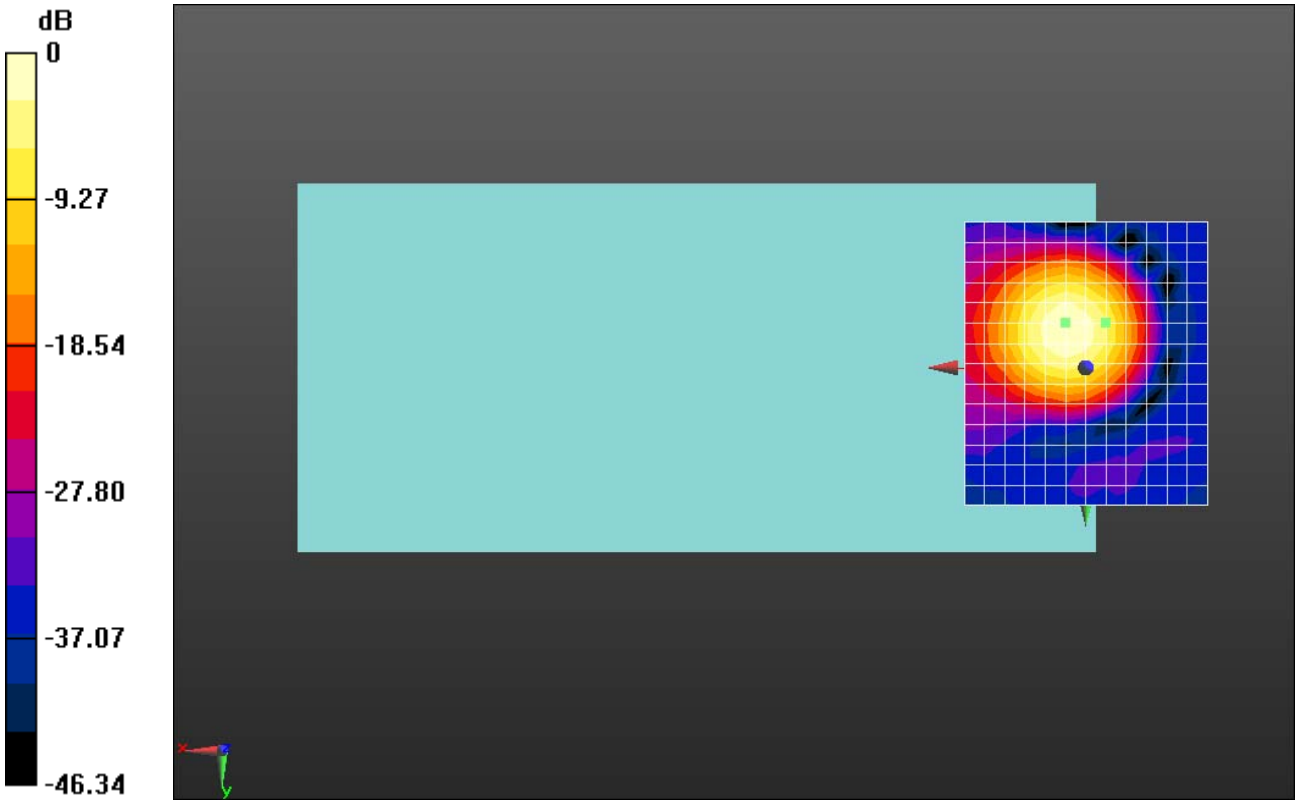
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_WCDMA Band IV_AMR 12.12Kbps_Ch1413_Z

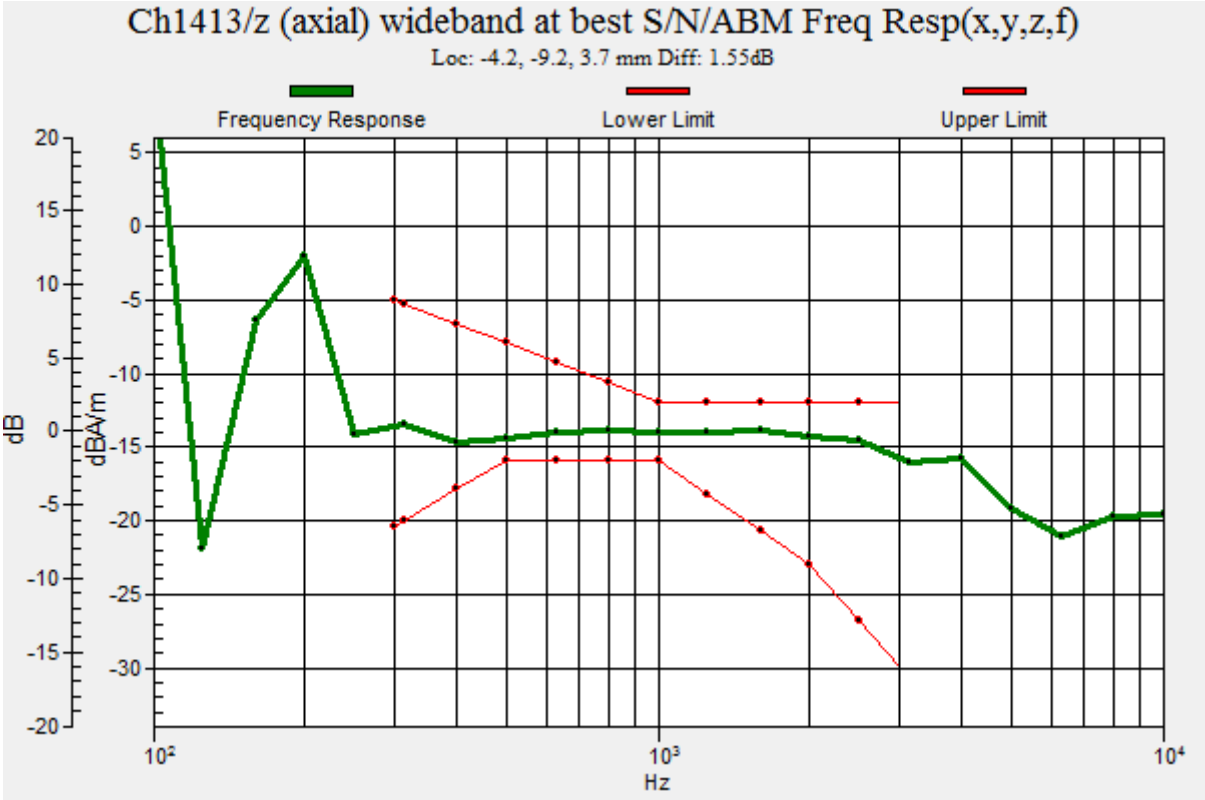
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.4 MHz;Duty Cycle: 1:1.95434
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 47.21 dB
ABM1 comp = -3.22 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 229.4 = 47.21 dB


Ch1413/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -9.2, 3.7 mm Diff: 1.55dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

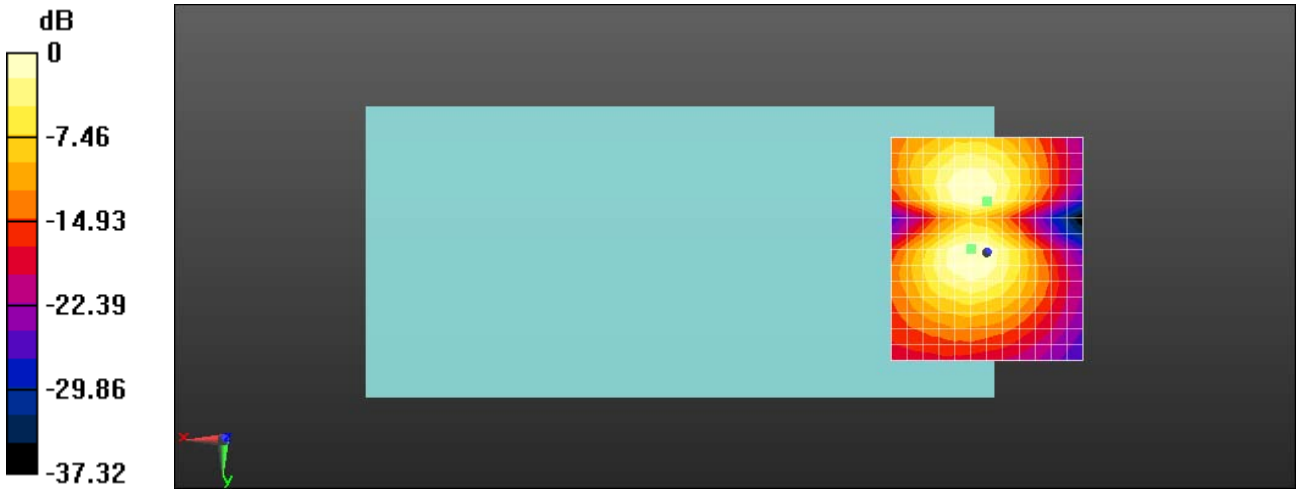
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_WCDMA Band IV_AMR 12.12Kbps_Ch1413_Y

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.4 MHz;Duty Cycle: 1:1.95434
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 41.77 dB
ABM1 comp = -7.01 dBA/m
BWC Factor = 0.15 dB
Location: 0, -13.3, 3.7 mm



0 dB = 122.6 = 41.77 dB

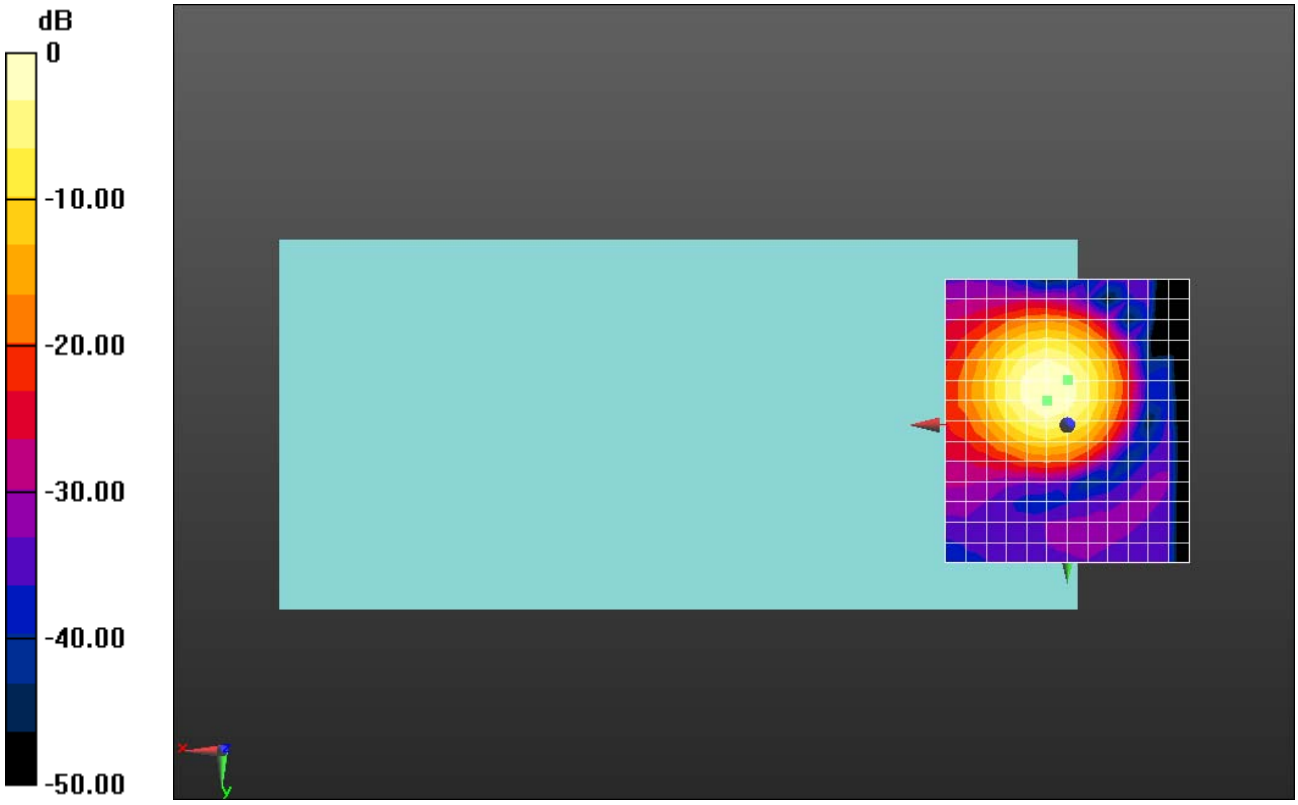
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_WCDMA Band V_AMR 12.12Kbps_Ch4182_Z

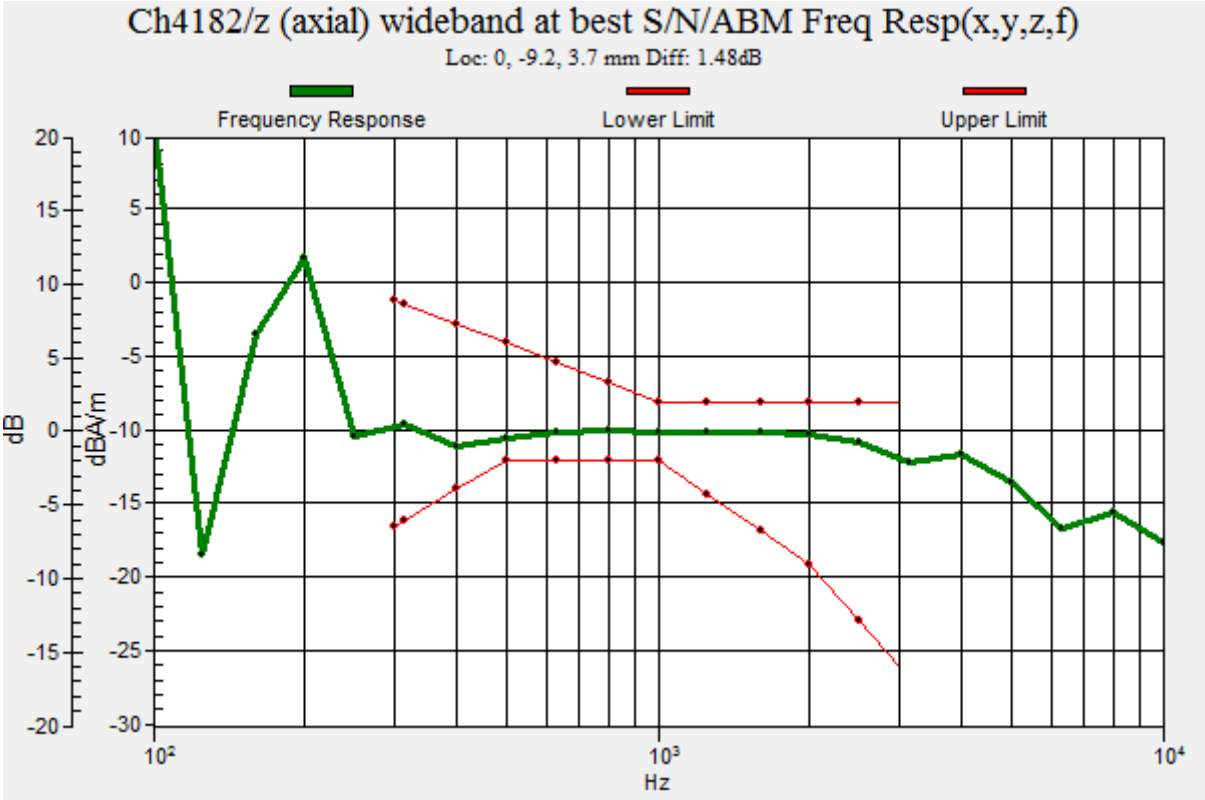
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz;Duty Cycle: 1:1.95434
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 45.26 dB
ABM1 comp = 1.03 dBA/m
BWC Factor = 0.15 dB
Location: 0, -9.2, 3.7 mm



0 dB = 183.2 = 45.26 dB


Ch4182/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 1.48dB
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
-30
10²
10³
10⁴

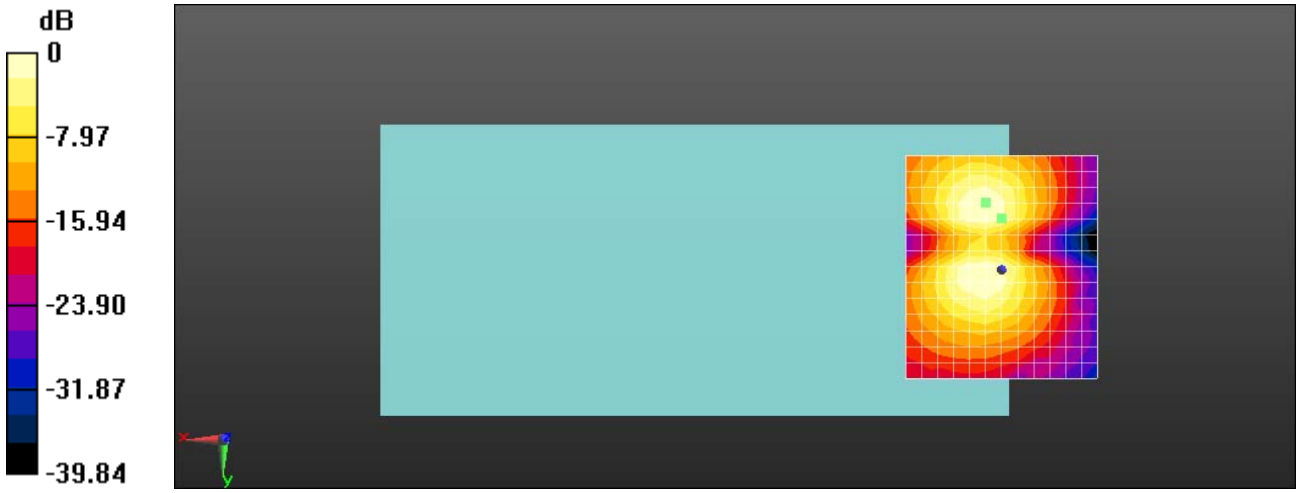
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_WCDMA Band V_AMR 12.12Kbps_Ch4182_Y

Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz;Duty Cycle: 1:1.95434
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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 SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 42.14 dB
ABM1 comp = -7.49 dBA/m
BWC Factor = 0.15 dB
Location: 0, -13.3, 3.7 mm



0 dB = 128.0 = 42.14 dB

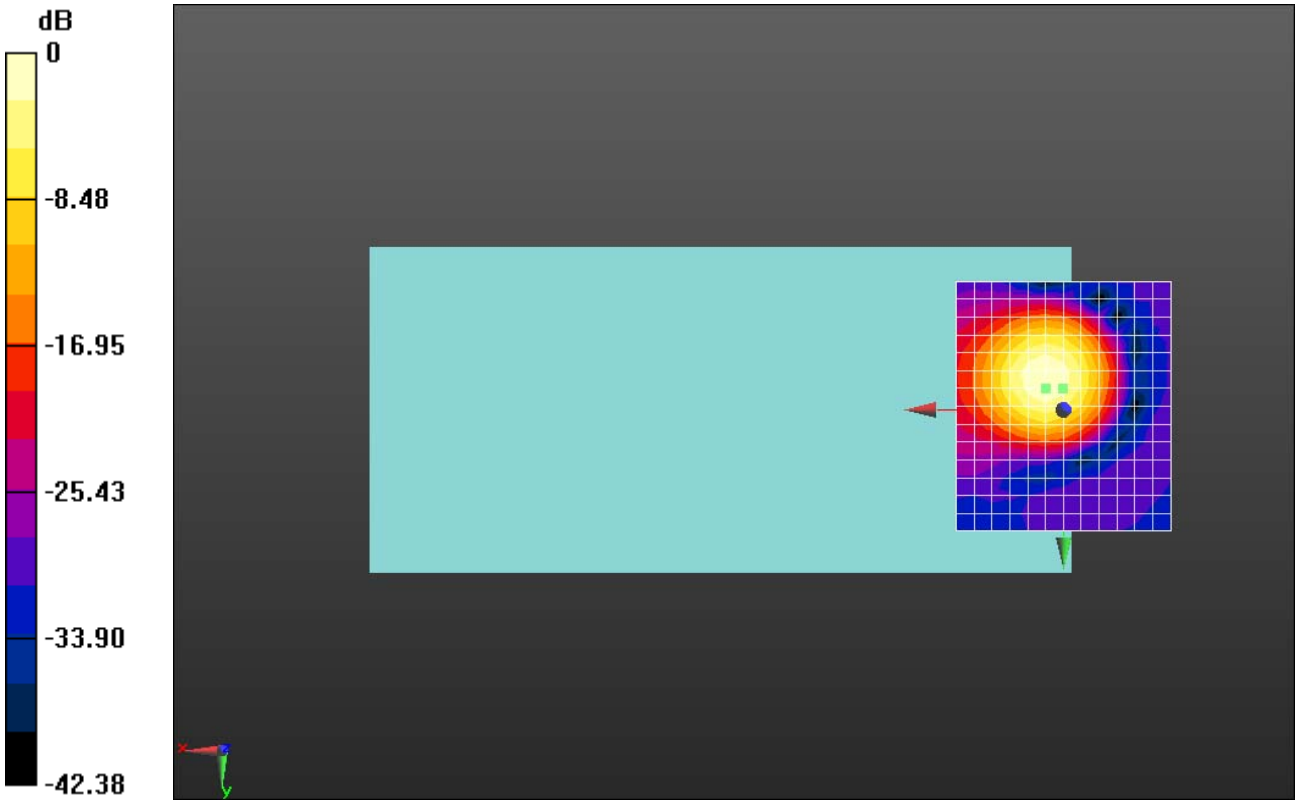
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 2_20MHz_QPSK_1RB_0offset_12.2Kbps_Ch18900_Z

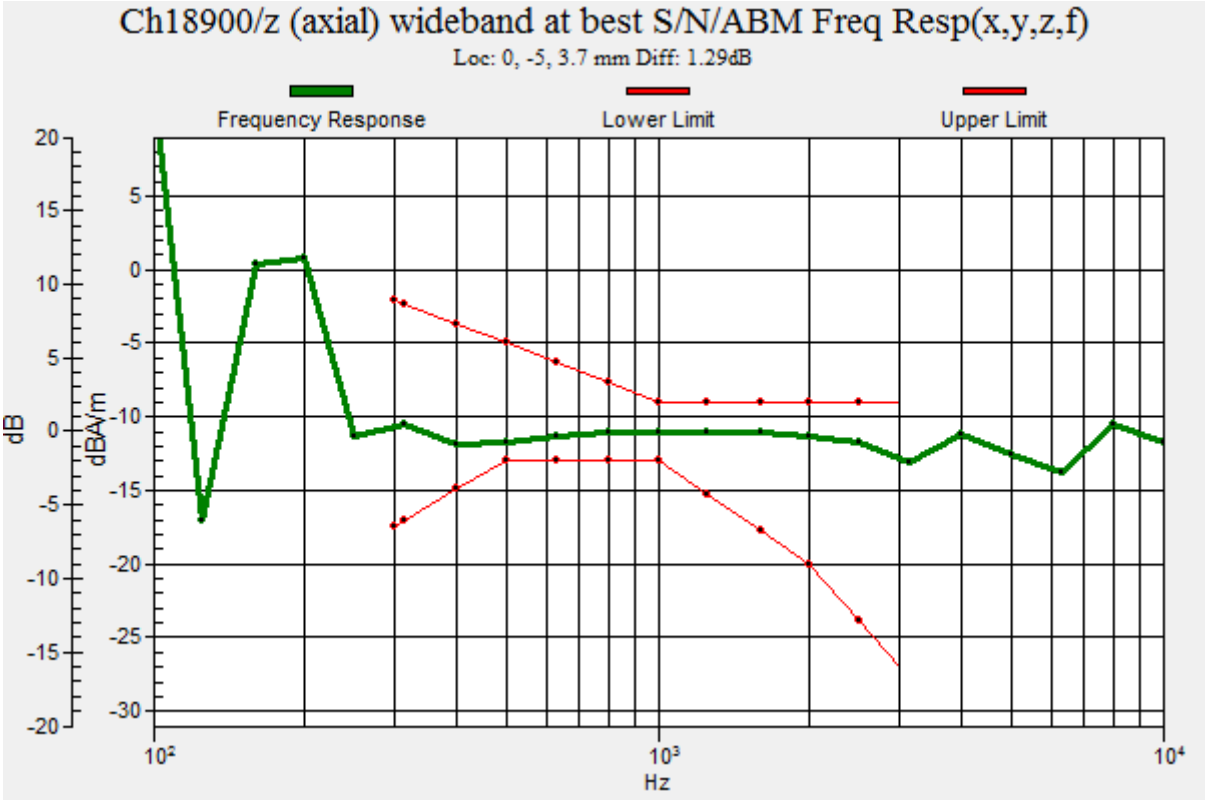
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 1880 MHz;Duty Cycle: 1:3.74111
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch18900/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid:
dx=10mm, dy=10mm
ABM1/ABM2 = 43.98 dB
ABM1 comp = 0.30 dBA/m
BWC Factor = 0.14 dB
Location: 0, -5, 3.7 mm



0 dB = 158.2 = 43.98 dB


Ch18900/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 1.29dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

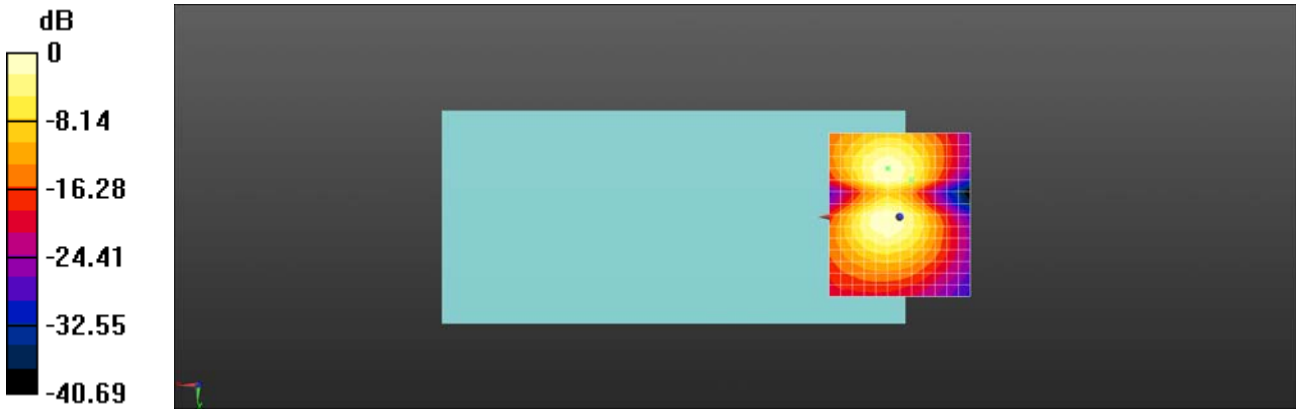
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 2_20MHz_QPSK_1RB_0offset_12.2Kbps_Ch18900_Y

Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 1880 MHz;Duty Cycle: 1:3.74111
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch18900/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 40.75 dB
ABM1 comp = -10.23 dBA/m
BWC Factor = 0.14 dB
Location: -4.2, -13.3, 3.7 mm



0 dB = 109.0 = 40.75 dB

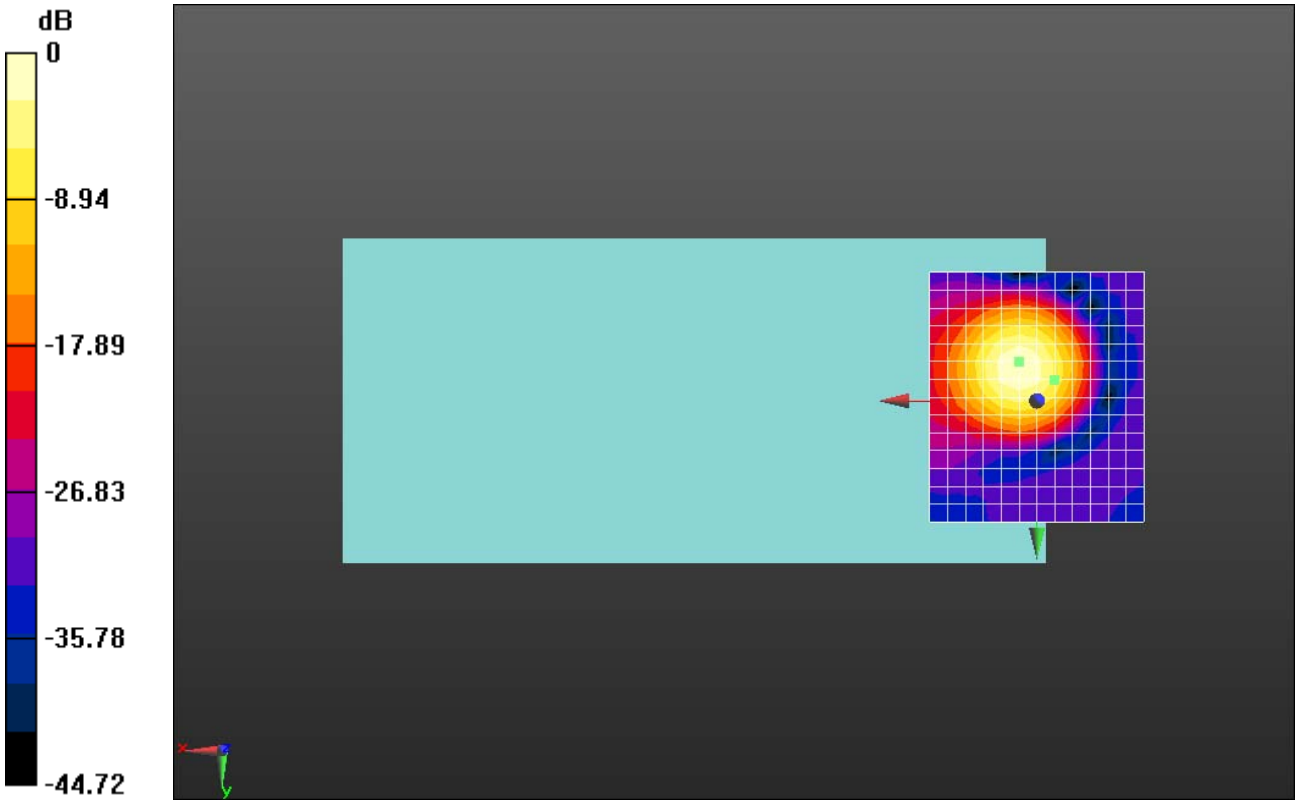
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 4_20MHz_QPSK_1RB_0offset_12.2Kbps_Ch20175_Z

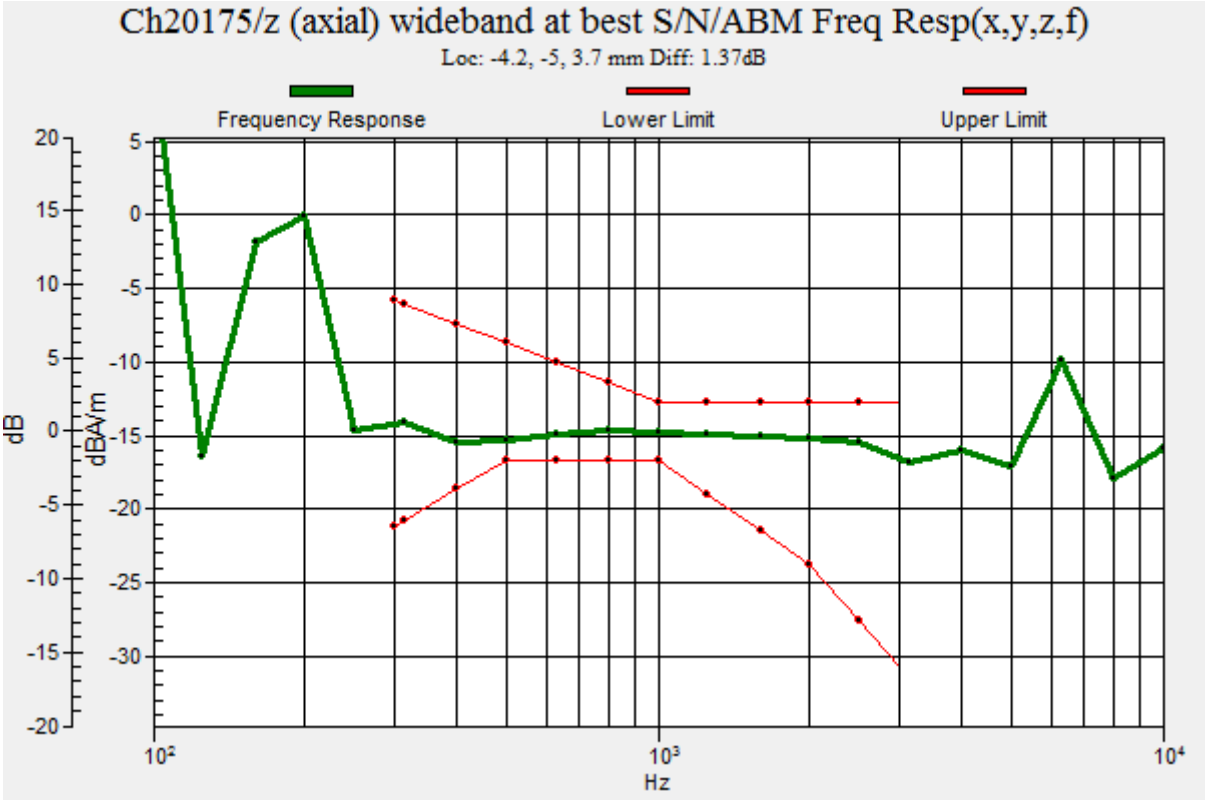
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 1732.5 MHz;Duty Cycle: 1:3.74111
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch20175/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid:
dx=10mm, dy=10mm
ABM1/ABM2 = 43.81 dB
ABM1 comp = -4.47 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -5, 3.7 mm



0 dB = 155.1 = 43.81 dB


Ch20175/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -5, 3.7 mm Diff: 1.37dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

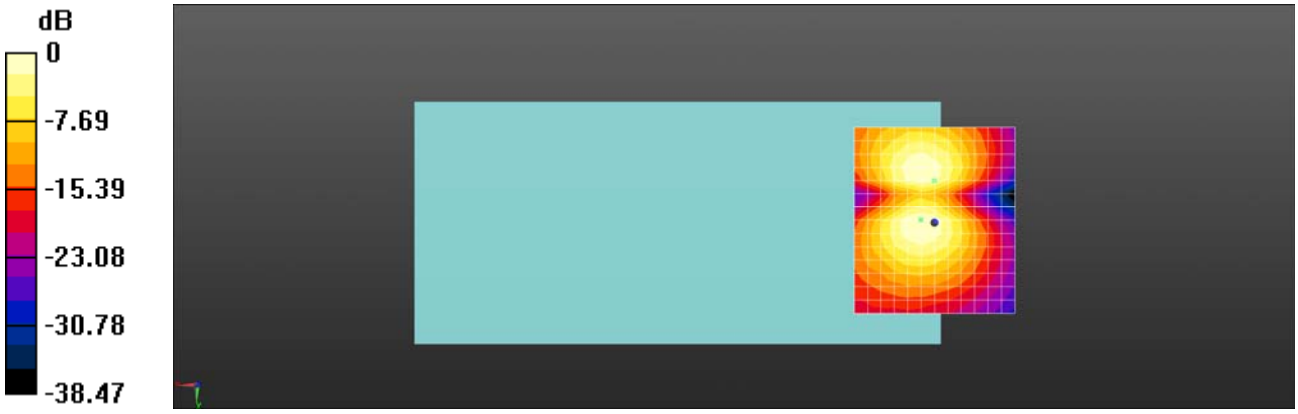
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 4_20MHz_QPSK_1RB_0offset_12.2Kbps_Ch20175_Y

Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 1732.5 MHz;Duty Cycle: 1:3.74111
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch20175/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 42.12 dB
ABM1 comp = -7.41 dBA/m
BWC Factor = 0.15 dB
Location: 0, -13.3, 3.7 mm



0 dB = 127.6 = 42.12 dB

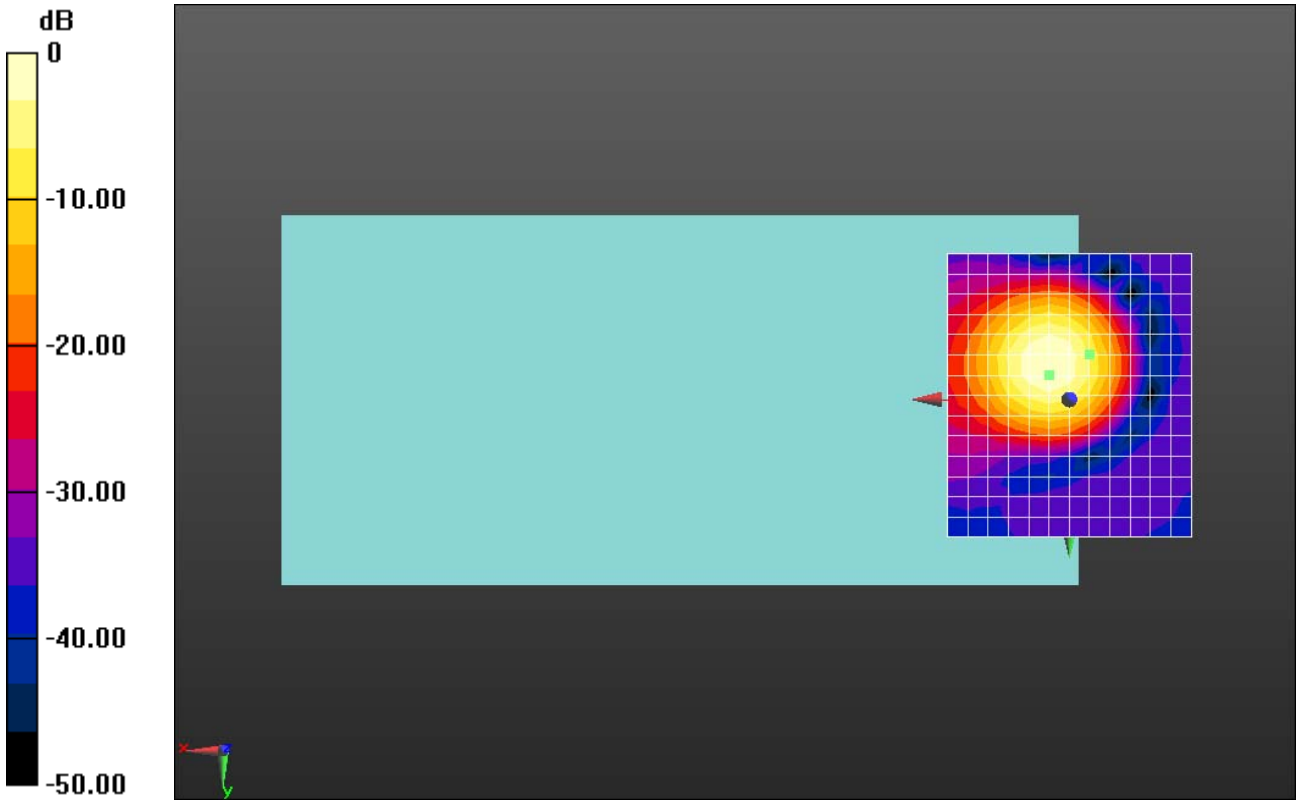
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 5_10MHz_QPSK_1RB_0offset_12.2Kbps_Ch20525_Z

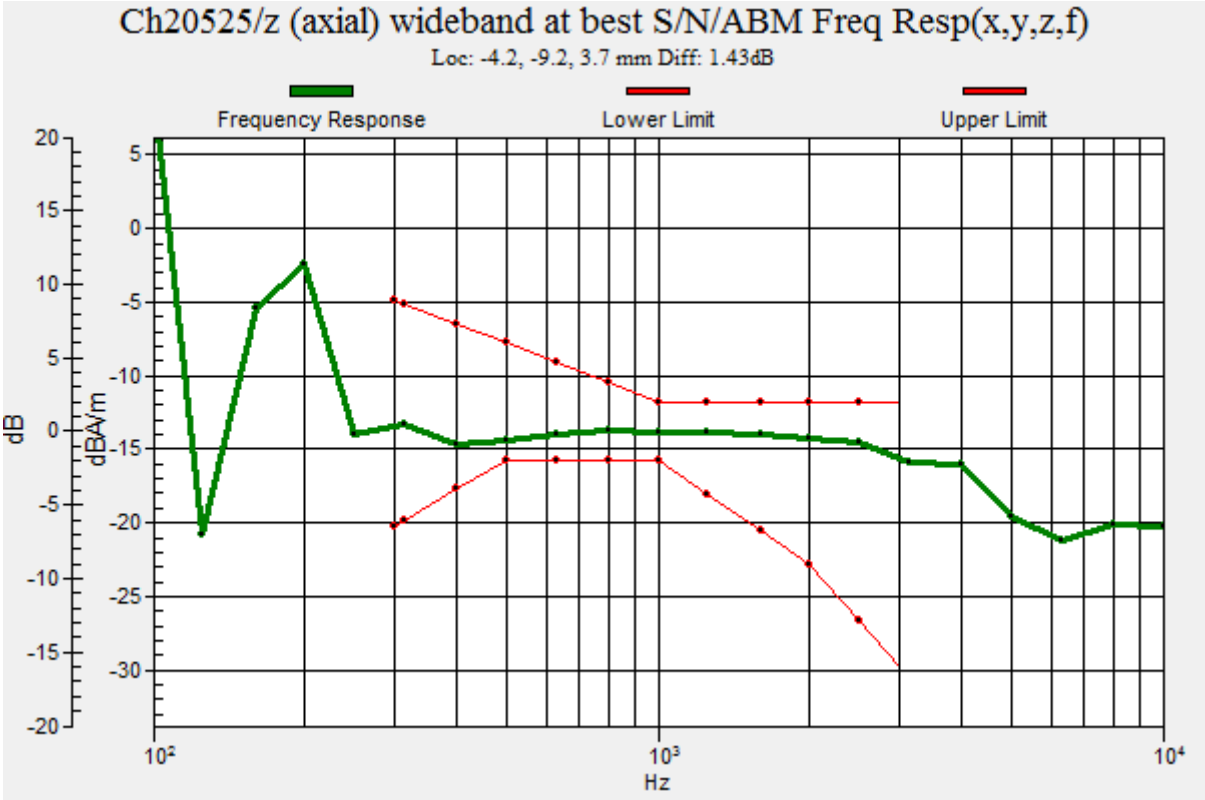
Communication System: UID 10175 - CAB, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);
Frequency: 836.5 MHz;Duty Cycle: 1:3.7325
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch20525/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid:
dx=10mm, dy=10mm
ABM1/ABM2 = 46.99 dB
ABM1 comp = -4.88 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 223.7 = 46.99 dB


Ch20525/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -9.2, 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
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

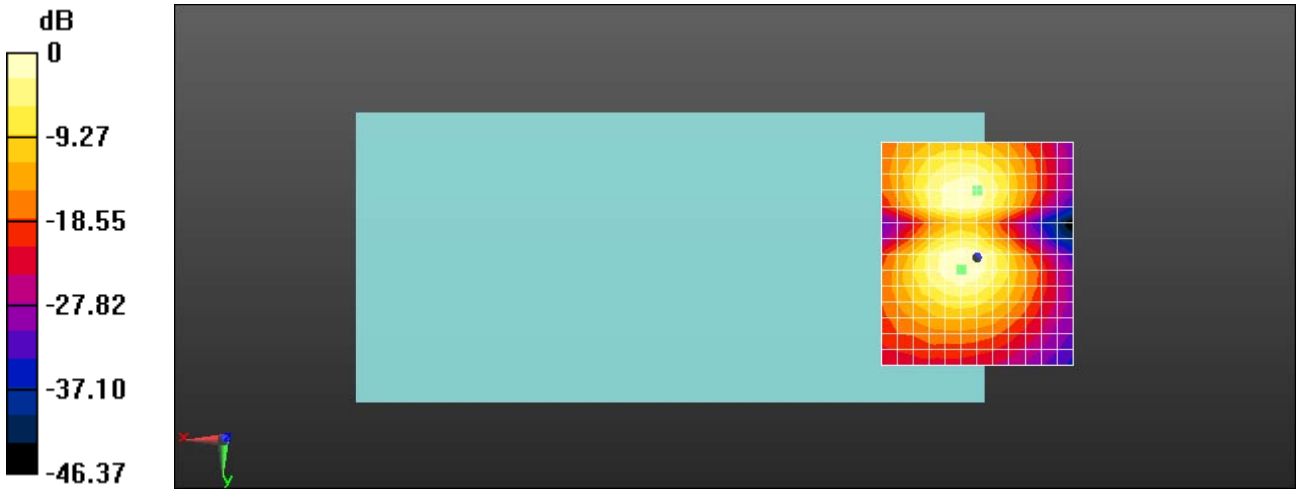
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 5_10MHz_QPSK_1RB_0offset_12.2Kbps_Ch20525_Y

Communication System: UID 10175 - CAB, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);
Frequency: 836.5 MHz;Duty Cycle: 1:3.7325
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch20525/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 43.23 dB
ABM1 comp = -6.38 dBA/m
BWC Factor = 0.15 dB
Location: 0, -17.5, 3.7 mm



0 dB = 145.1 = 43.23 dB

HAC_T-Coil_LTE Band 7_20MHz_QPSK_1RB_0offset_12.2Kbps_Ch21100_Z

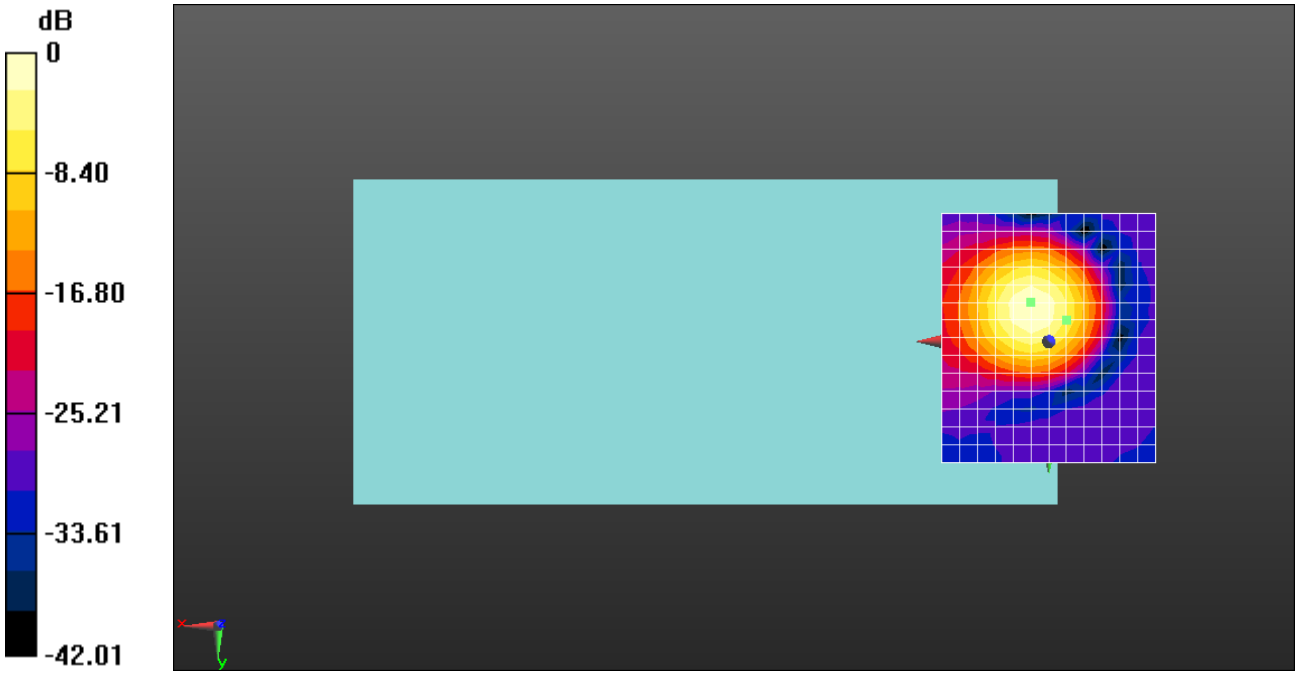
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111

Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3

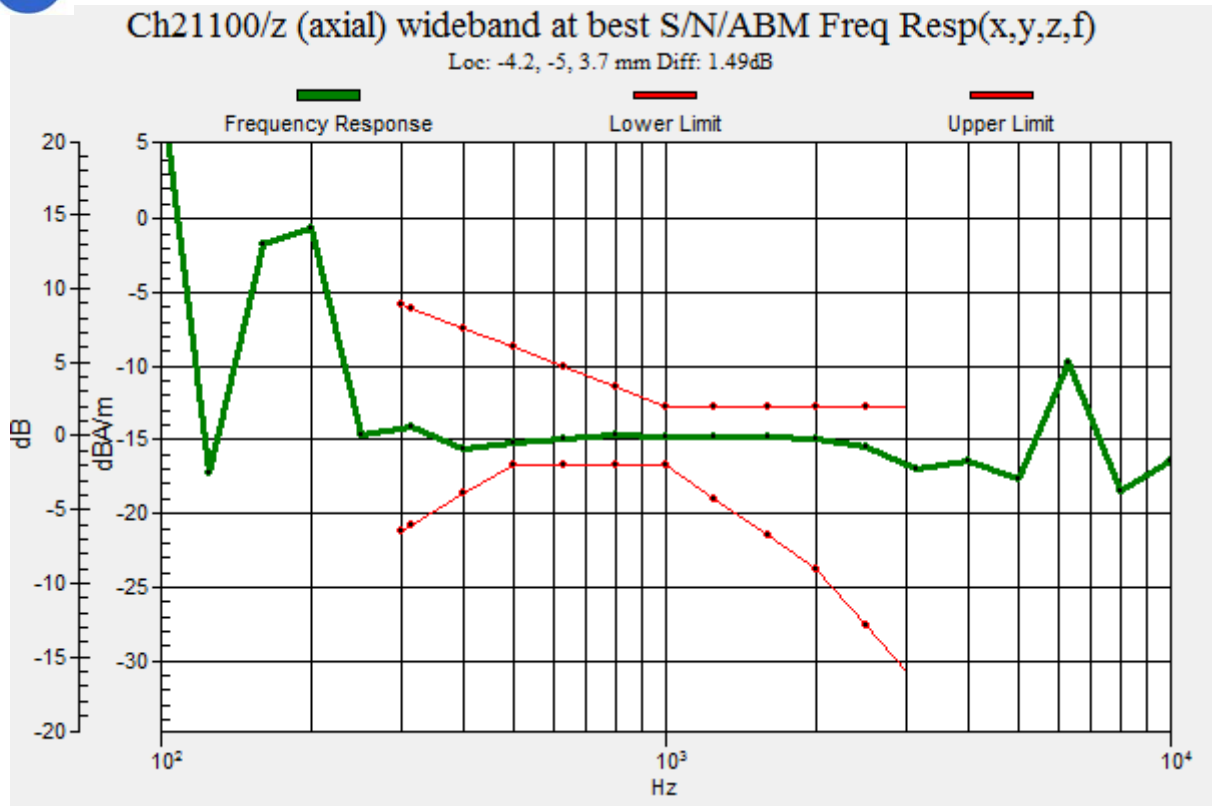
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.7.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.6.22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch21100/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 43.95 dB
ABM1 comp = -4.26 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -5, 3.7 mm



0 dB = 155.1 = 43. 95 dB

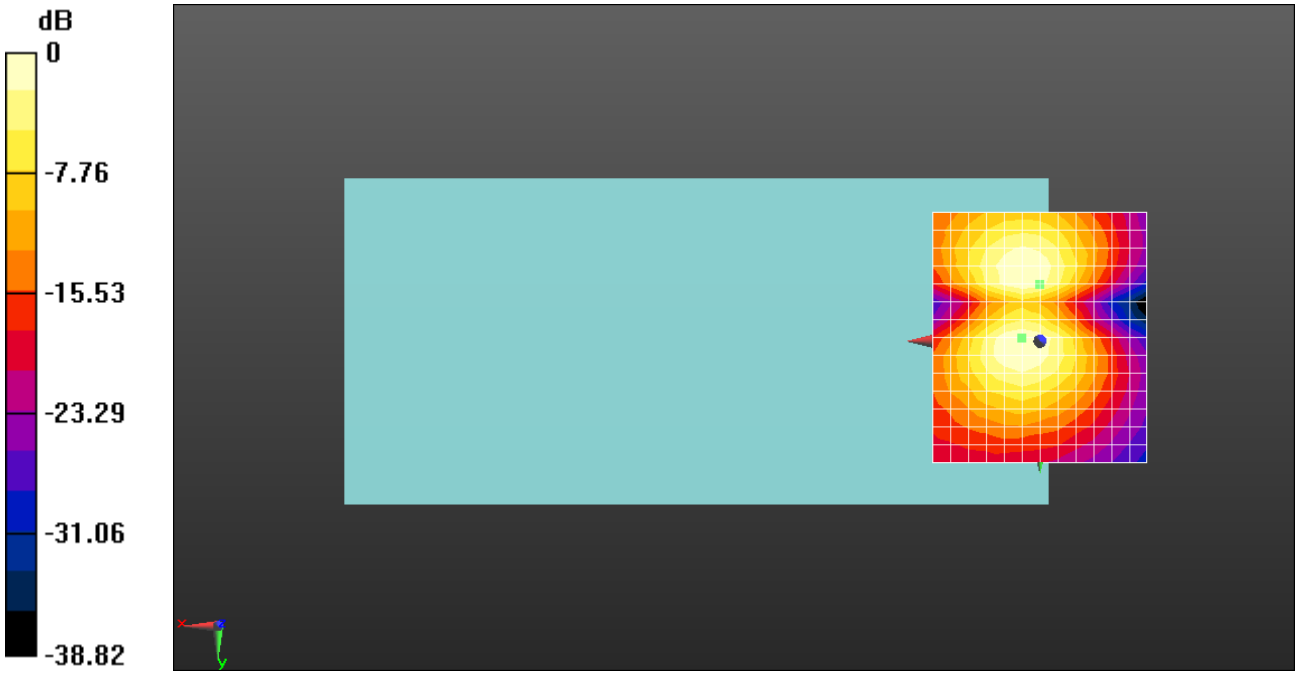

Ch21100/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -5, 3.7 mm Diff: 1.49dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

HAC_T-Coil_LTE Band 7_20MHz_QPSK_1RB_0offset_12.2Kbps_Ch21100_Y

Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2535 MHz;Duty Cycle: 1:3.74111
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.7.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.6.22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch21100/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 41.87 dB
ABM1 comp = -6.75 dBA/m
BWC Factor = 0.15 dB
Location: 0, -13.3, 3.7 mm



0 dB = 118.3 = 41.4 7 dB

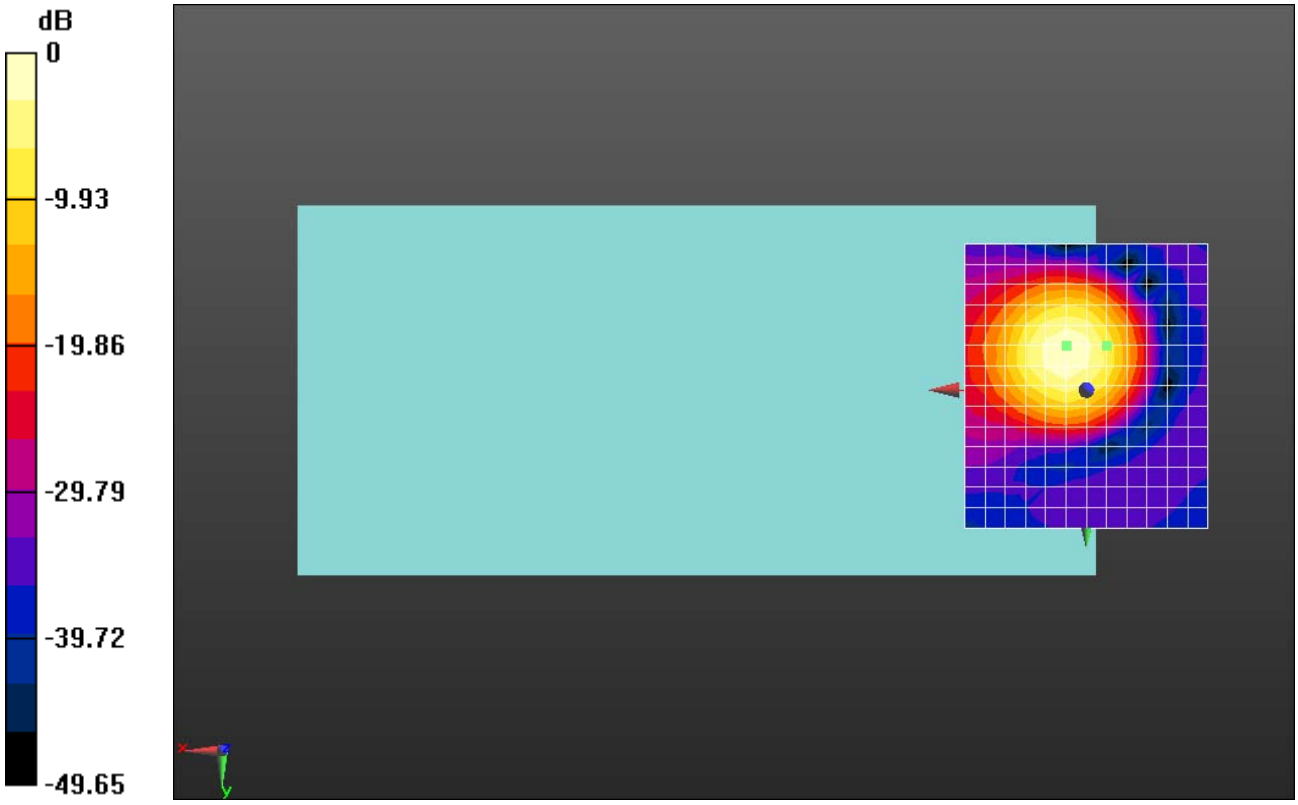
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 12_10MHz_QPSK_1RB_0offset_12.2Kbps_Ch23095_Z

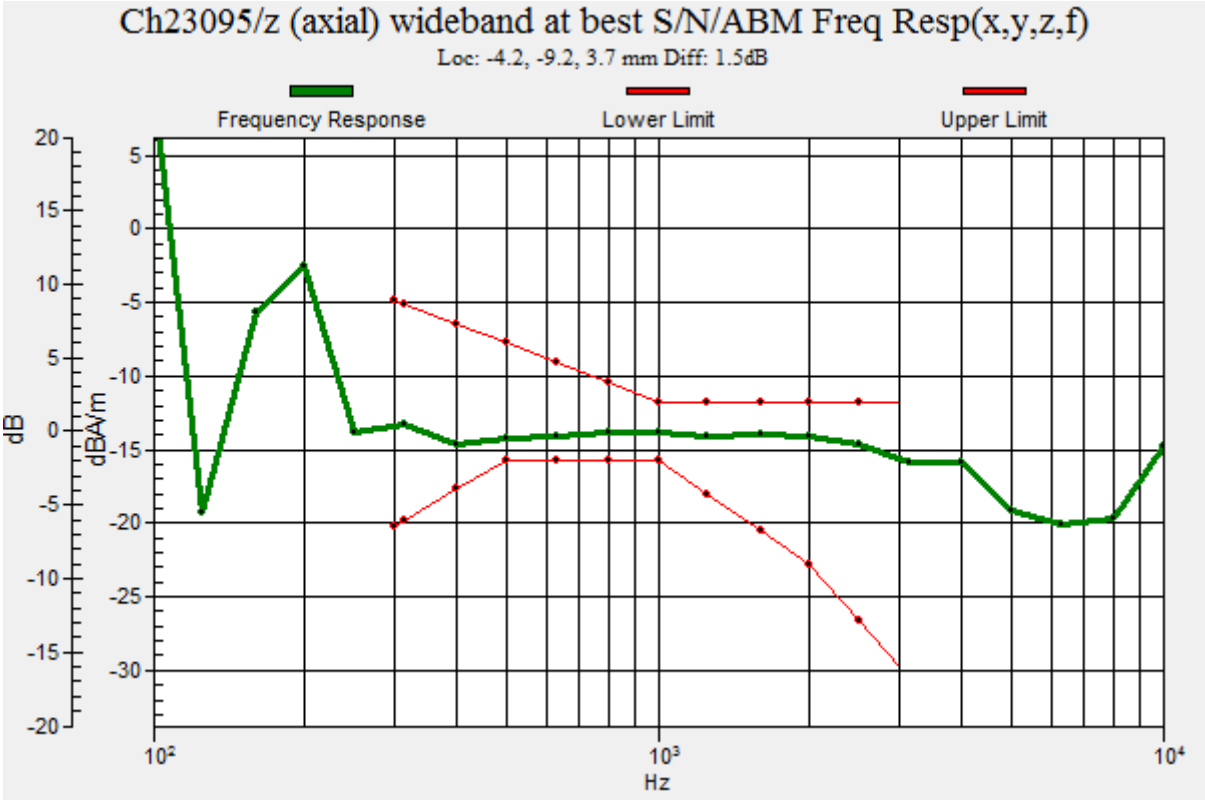
Communication System: UID 10175 - CAB, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);
Frequency: 707.5 MHz;Duty Cycle: 1:3.7325
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch23095/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid:
dx=10mm, dy=10mm
ABM1/ABM2 = 46.92 dB
ABM1 comp = -4.55 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 221.7 = 46.92 dB


Ch23095/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -9.2, 3.7 mm Diff: 1.5dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

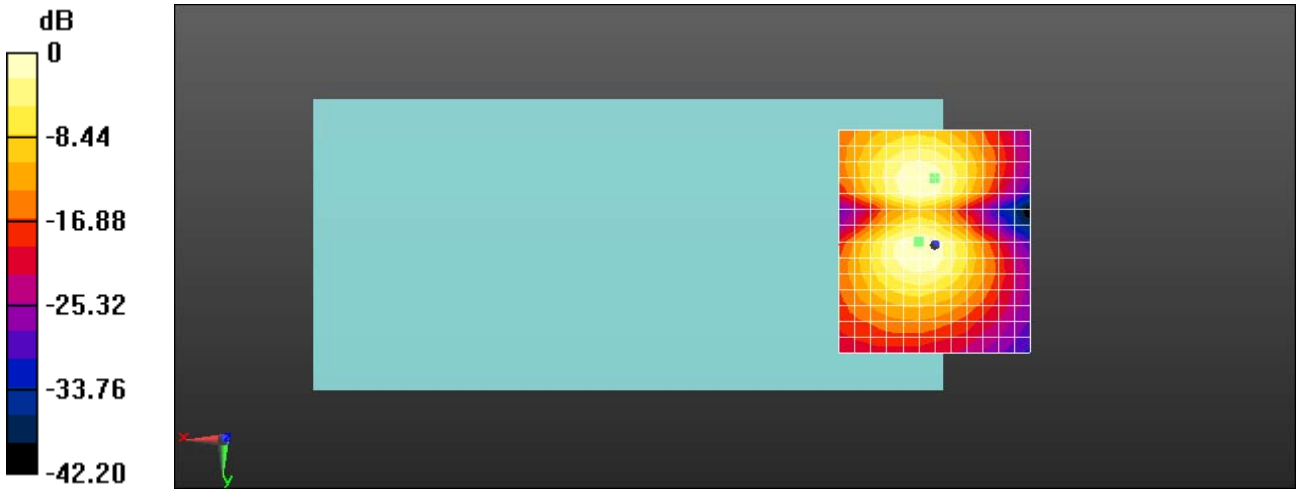
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 12_10MHz_QPSK_1RB_0offset_12.2Kbps_Ch23095_Y

Communication System: UID 10175 - CAB, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);
Frequency: 707.5 MHz;Duty Cycle: 1:3.7325
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch23095/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 42.81 dB
ABM1 comp = -6.36 dBA/m
BWC Factor = 0.15 dB
Location: 0, -17.5, 3.7 mm



0 dB = 138.2 = 42.81 dB

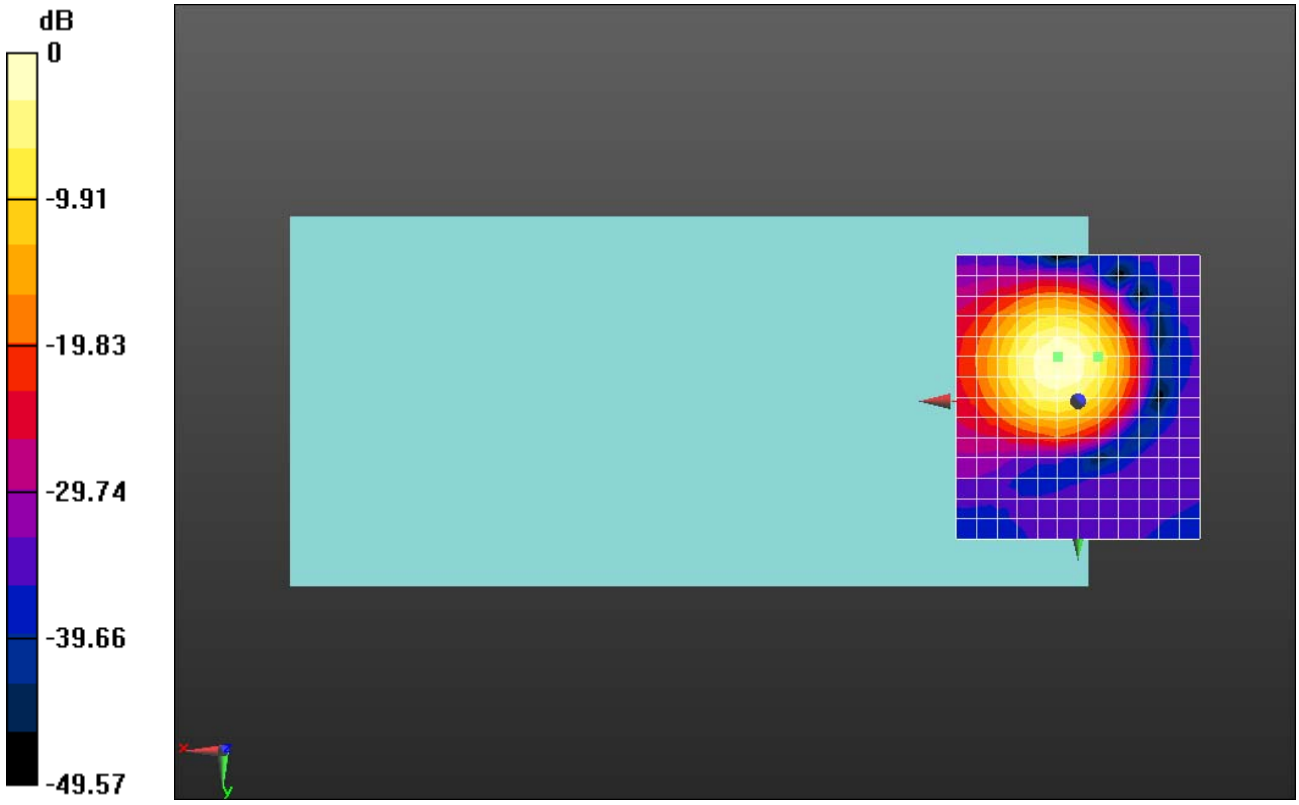
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 17_10MHz_QPSK_1RB_0offset_12.2Kbps_Ch23790_Z

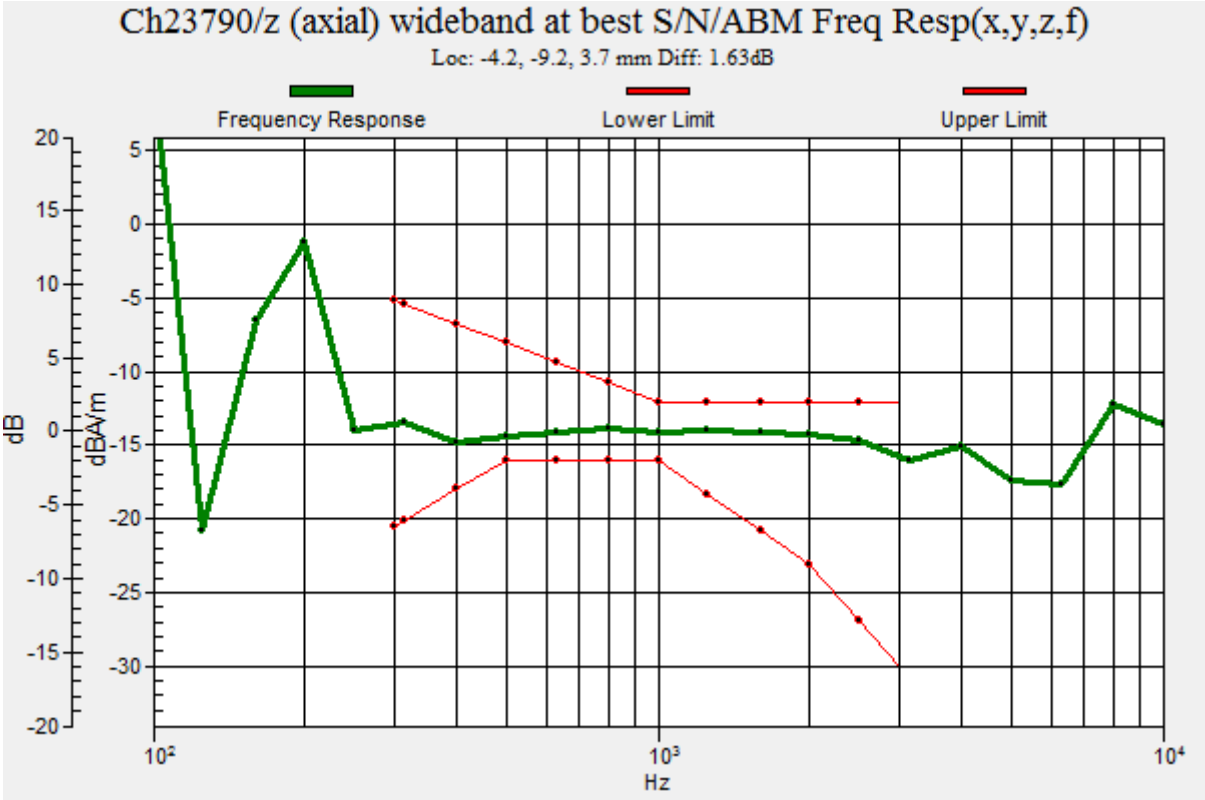
Communication System: UID 10175 - CAB, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);
Frequency: 710 MHz;Duty Cycle: 1:3.7325
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch23790/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid:
dx=10mm, dy=10mm
ABM1/ABM2 = 47.42 dB
ABM1 comp = -3.94 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 234.9 = 47.42 dB


Ch23790/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -9.2, 3.7 mm Diff: 1.63dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

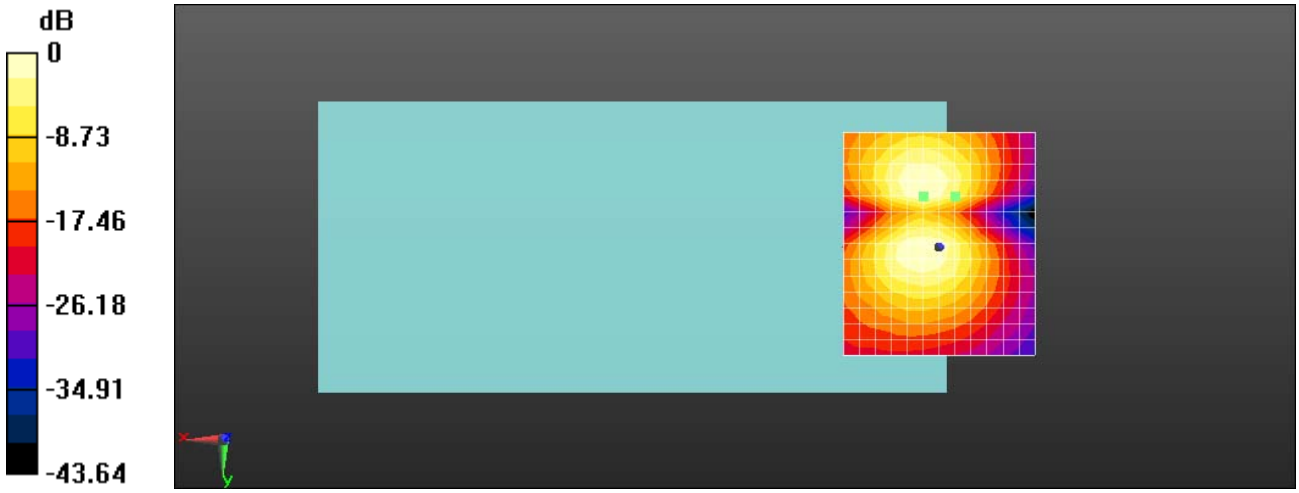
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 17_10MHz_QPSK_1RB_0offset_12.2Kbps_Ch23790_Y

Communication System: UID 10175 - CAB, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK);
Frequency: 710 MHz;Duty Cycle: 1:3.7325
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch23790/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 41.18 dB
ABM1 comp = -10.60 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -13.3, 3.7 mm



0 dB = 114.6 = 41.18 dB

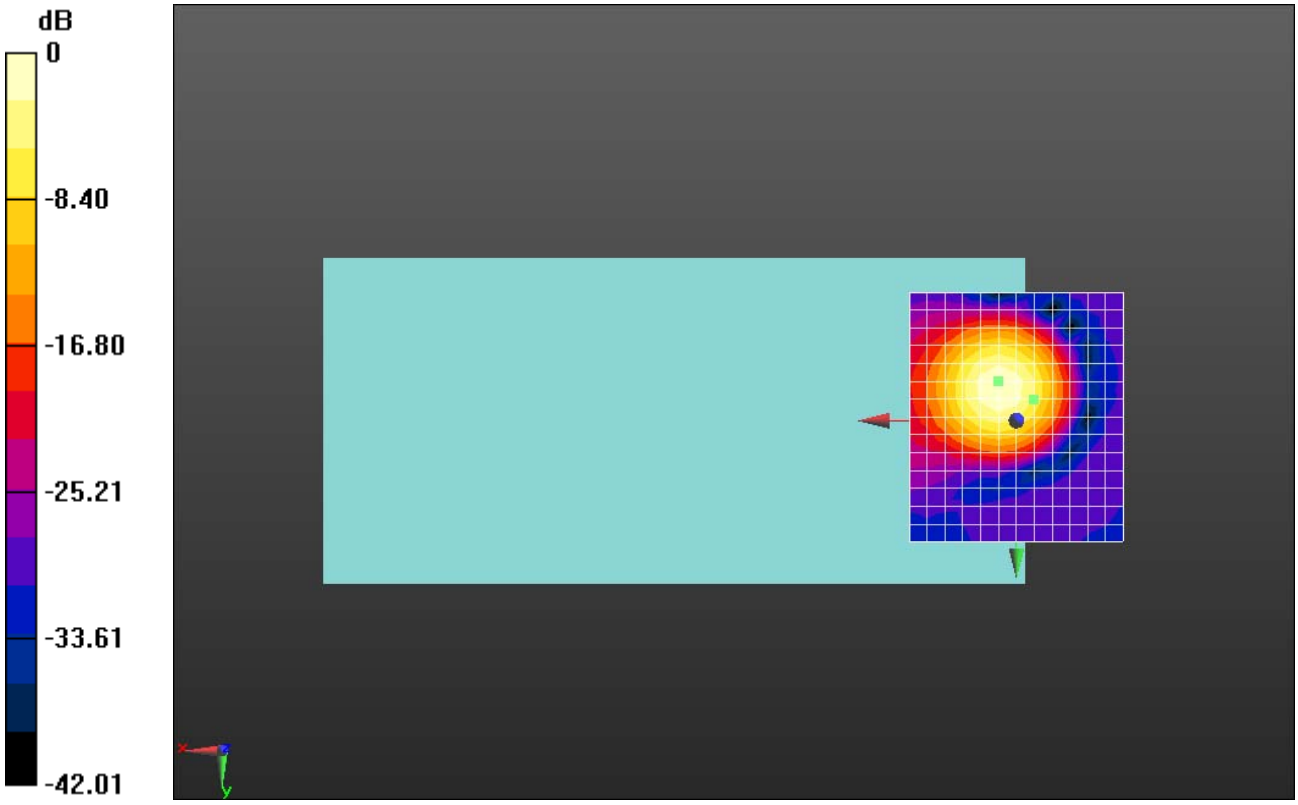
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 66_20MHz_QPSK_1RB_0offset_12.2Kbps_Ch132322_Z

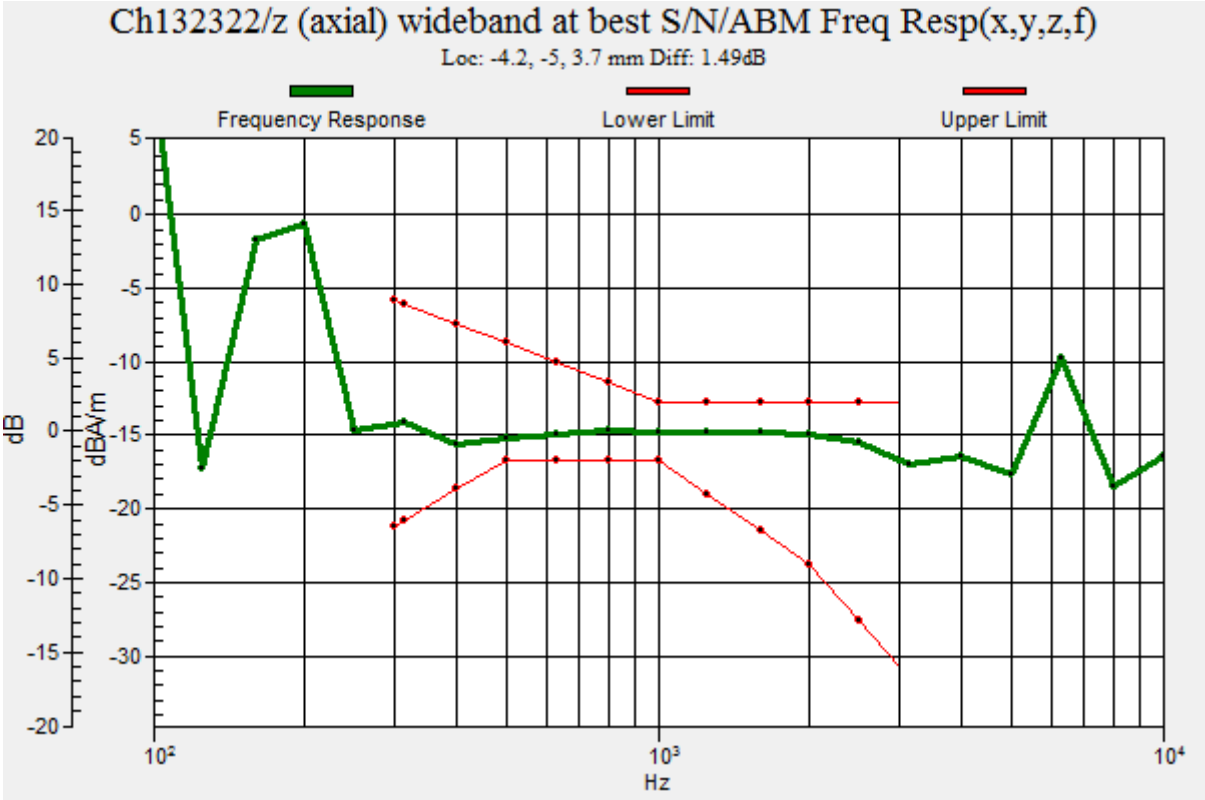
Communication System: UID 0, LTE-FDD (SC-FDMA, 1RB, 20MHz, QPSK) (0); Frequency: 1745 MHz;Duty Cycle: 1:3.74111
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch132322/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 43.82 dB
ABM1 comp = -4.42 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -5, 3.7 mm



0 dB = 155.3 = 43.82 dB


Ch132322/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -5, 3.7 mm Diff: 1.49dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

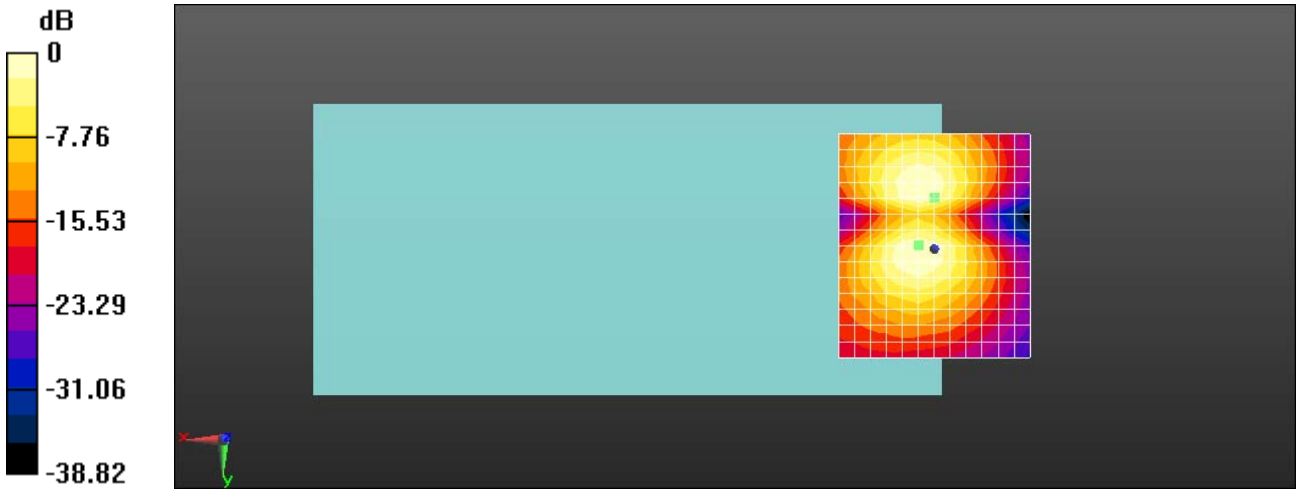
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.04.25

HAC_T-Coil_LTE Band 66_20MHz_QPSK_1RB_0offset_12.2Kbps_Ch132322_Y

Communication System: UID 0, LTE-FDD (SC-FDMA, 1RB, 20MHz, QPSK) (0); Frequency: 1745 MHz;Duty Cycle: 1:3.74111
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch132322/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 41.48 dB
ABM1 comp = -7.17 dBA/m
BWC Factor = 0.15 dB
Location: 0, -13.3, 3.7 mm



0 dB = 118.6 = 41.48 dB

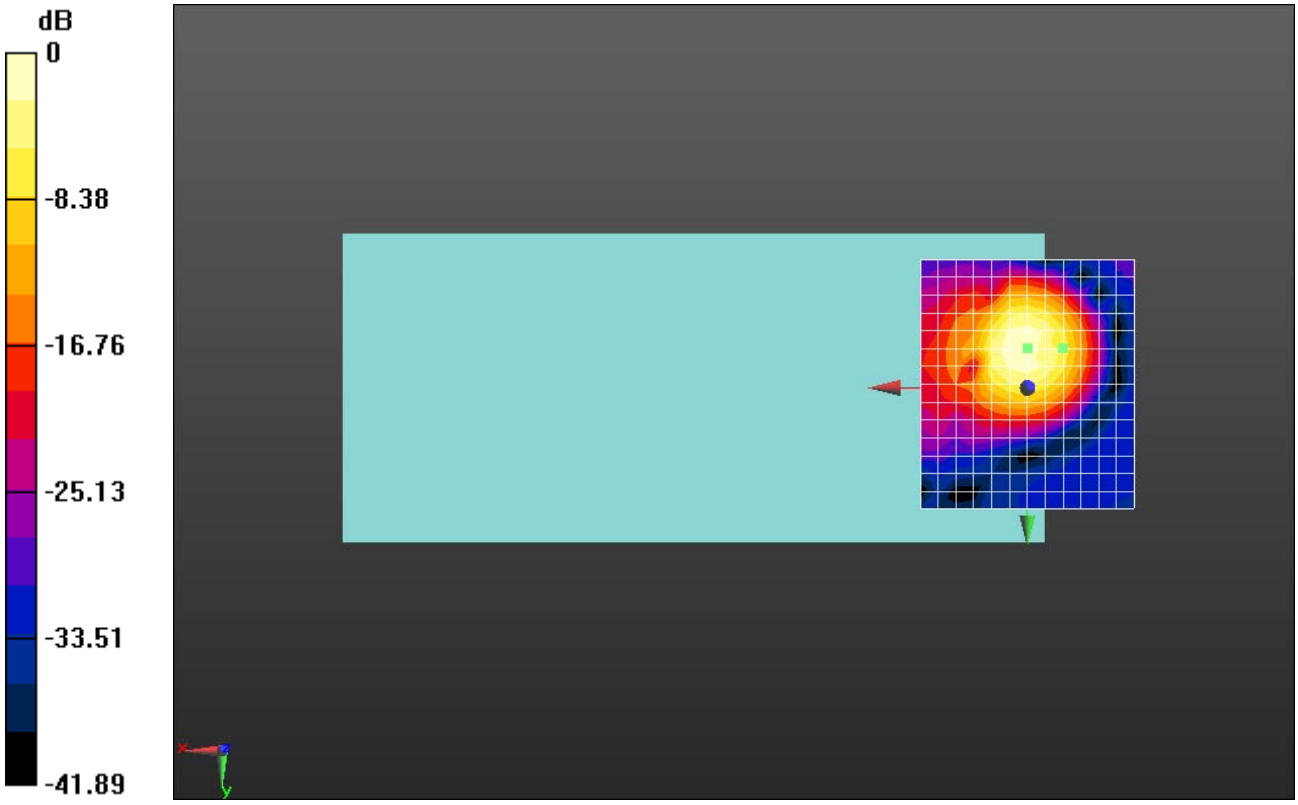
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 2.4GHz_802.11b 1Mbps_AMR 12.20Kbps_Ch7_Z

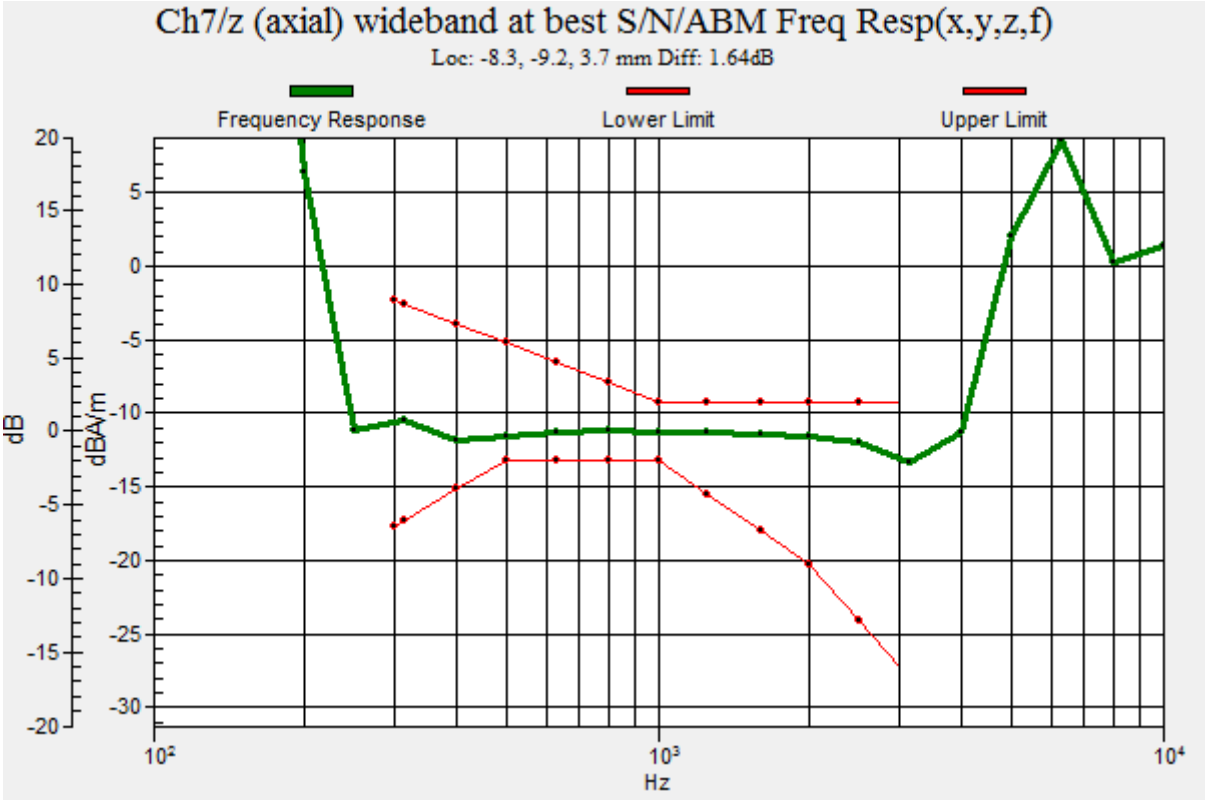
Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2442 MHz;Duty Cycle: 1:1.42561
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch7/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.07 dB
ABM1 comp = -10.57 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -9.2, 3.7 mm



0 dB = 56.70 = 35.07 dB


Ch7/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.3, -9.2, 3.7 mm Diff: 1.64dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

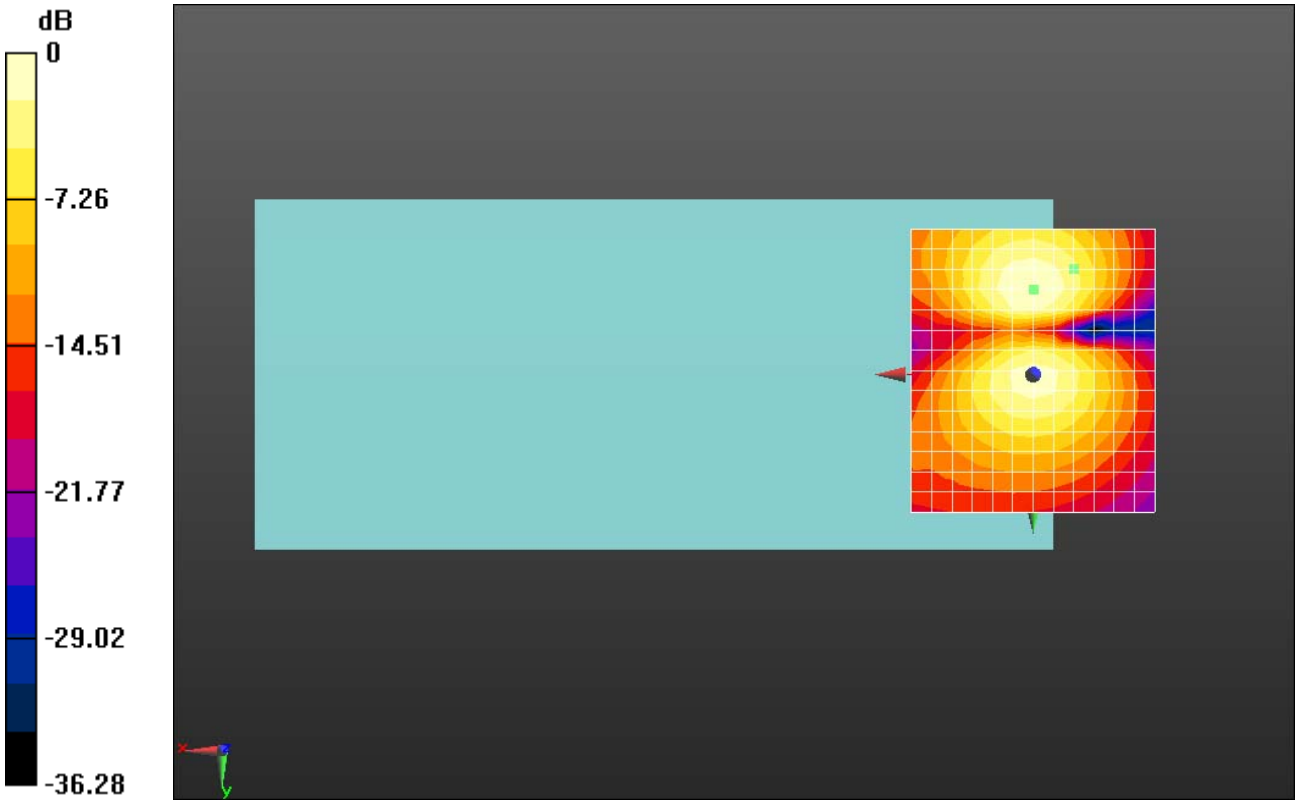
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 2.4GHz_802.11b 1Mbps_AMR 12.20Kbps_Ch7_Y

Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2442 MHz;Duty Cycle: 1:1.42561
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch7/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 33.26 dB
ABM1 comp = -15.62 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -21.7, 3.7 mm



0 dB = 46.02 = 33.26 dB

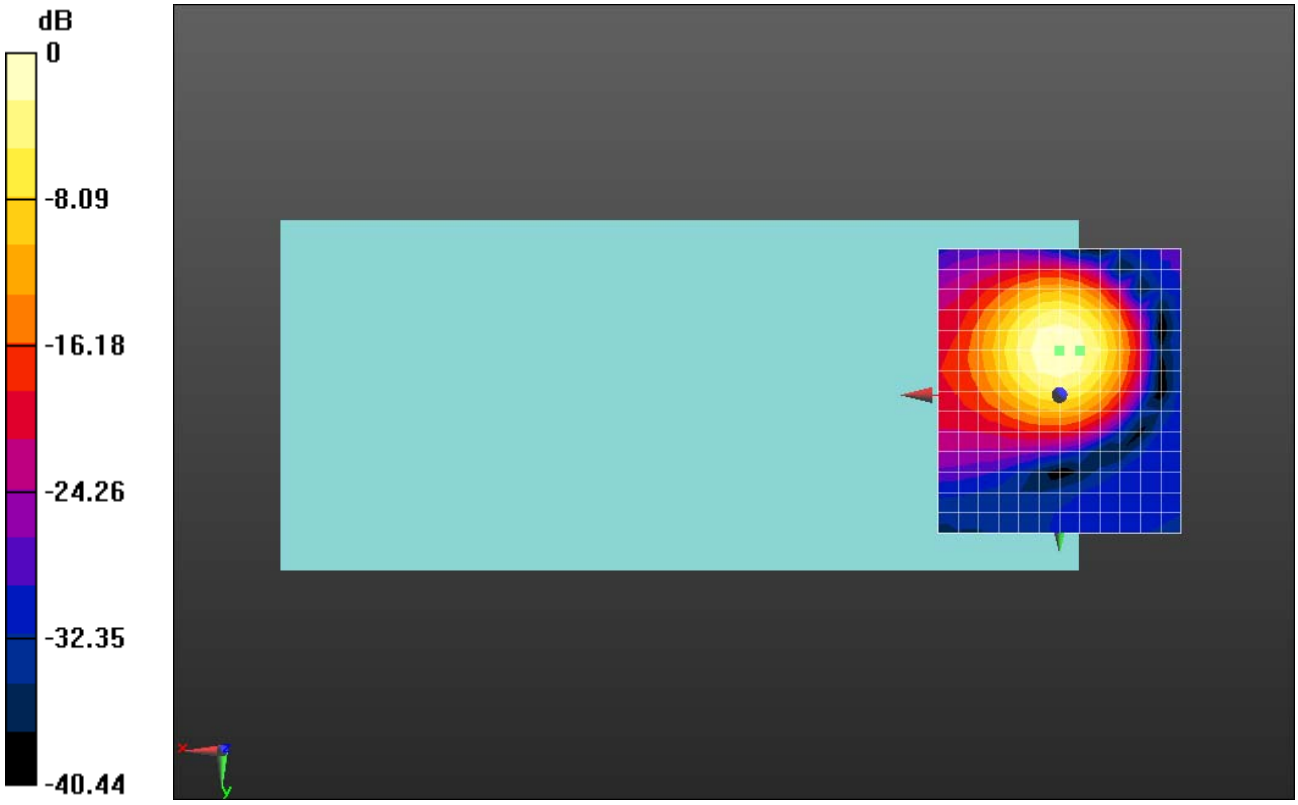
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 2.4GHz_802.11g 6Mbps_AMR 12.20Kbps_Ch7_Z

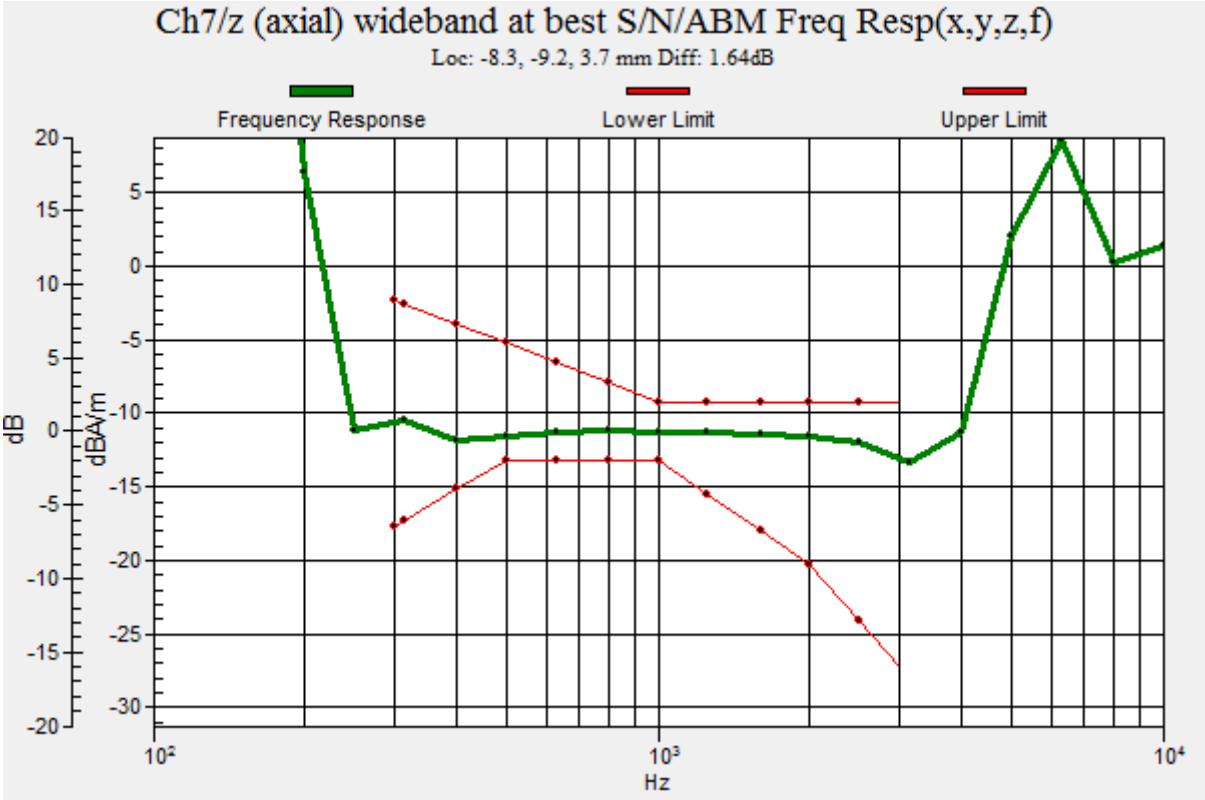
Communication System: UID 10418 - AAA, IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule); Frequency: 2442 MHz;Duty Cycle: 1:6.51628
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch7/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 34.73 dB
ABM1 comp = -5.66 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 54.50 = 34.73 dB


Ch7/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.3, -9.2, 3.7 mm Diff: 1.64dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

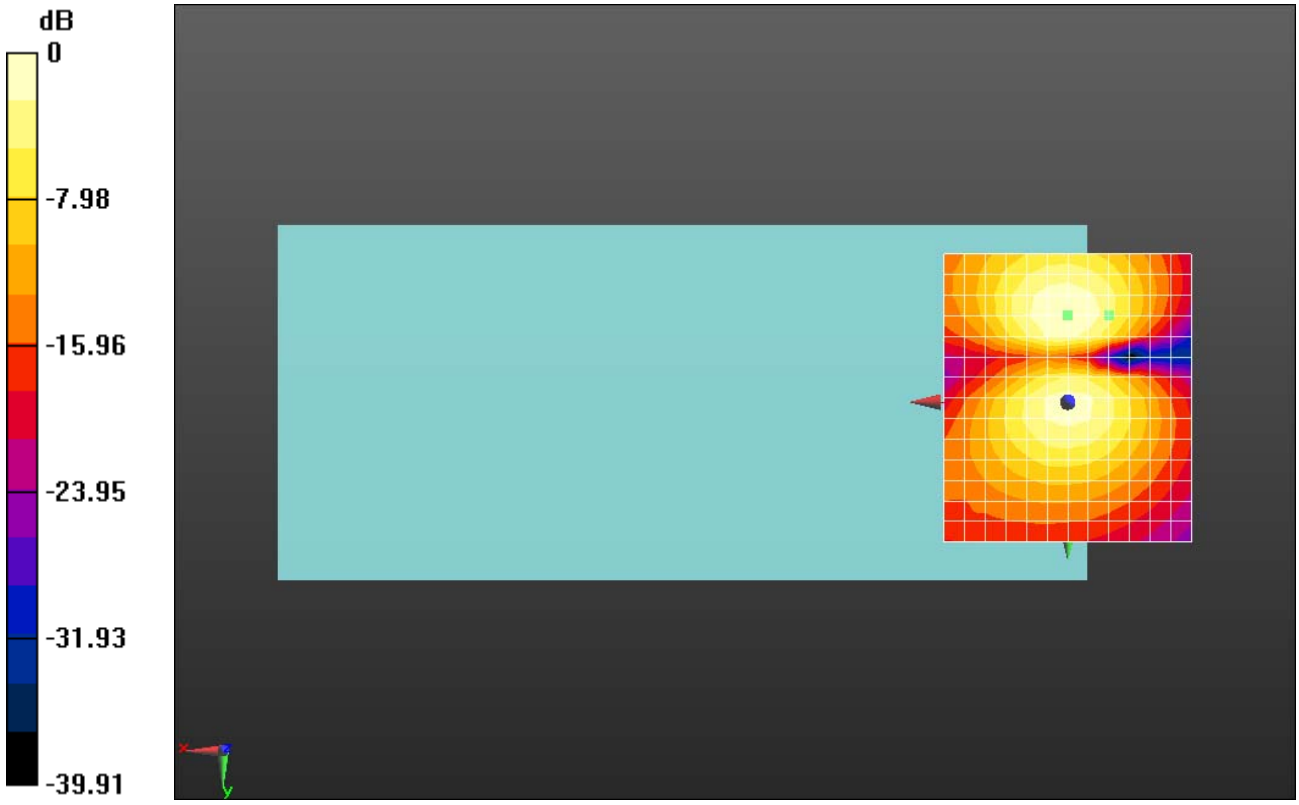
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 2.4GHz_802.11g 6Mbps_AMR 12.20Kbps_Ch7_Y

Communication System: UID 10418 - AAA, IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule); Frequency: 2442 MHz;Duty Cycle: 1:6.51628
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch7/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 33.33 dB
ABM1 comp = -15.29 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -17.5, 3.7 mm



0 dB = 46.37 = 33.32 dB

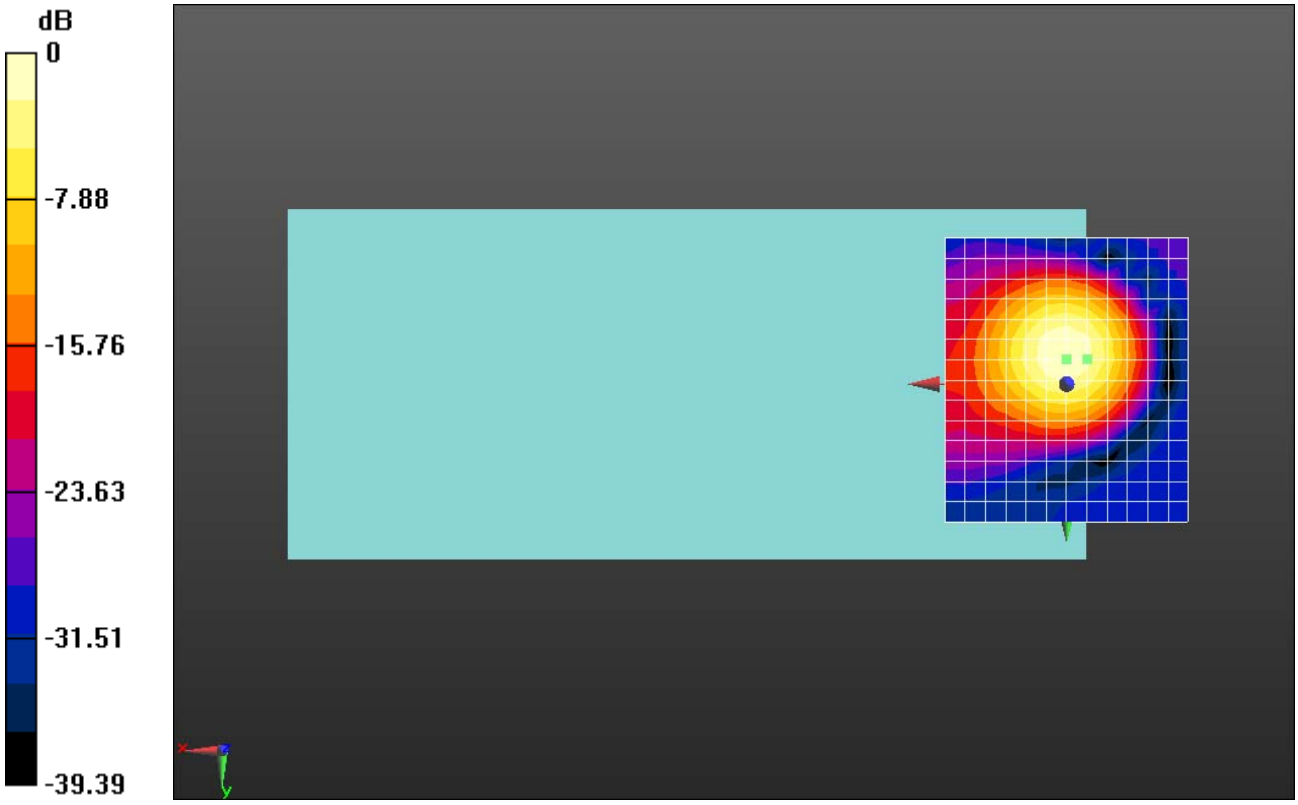
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 2.4GHz_802.11n-HT20 MCS0_AMR 12.20Kbps_Ch7_Z

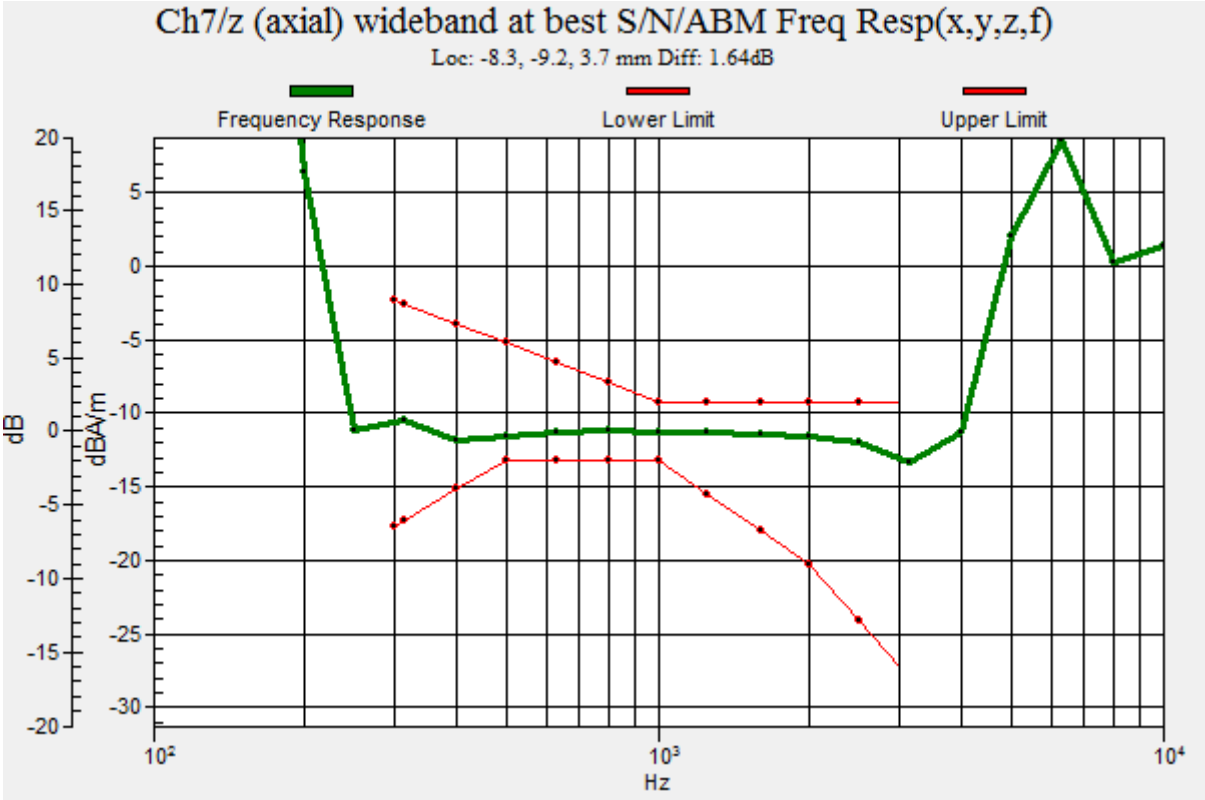
Communication System: UID 10193 - CAA, IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK); Frequency: 2442 MHz;Duty Cycle: 1:6.44169
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch7/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 34.60 dB
ABM1 comp = -5.82 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -5, 3.7 mm



0 dB = 53.72 = 34.60 dB


Ch7/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.3, -9.2, 3.7 mm Diff: 1.64dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

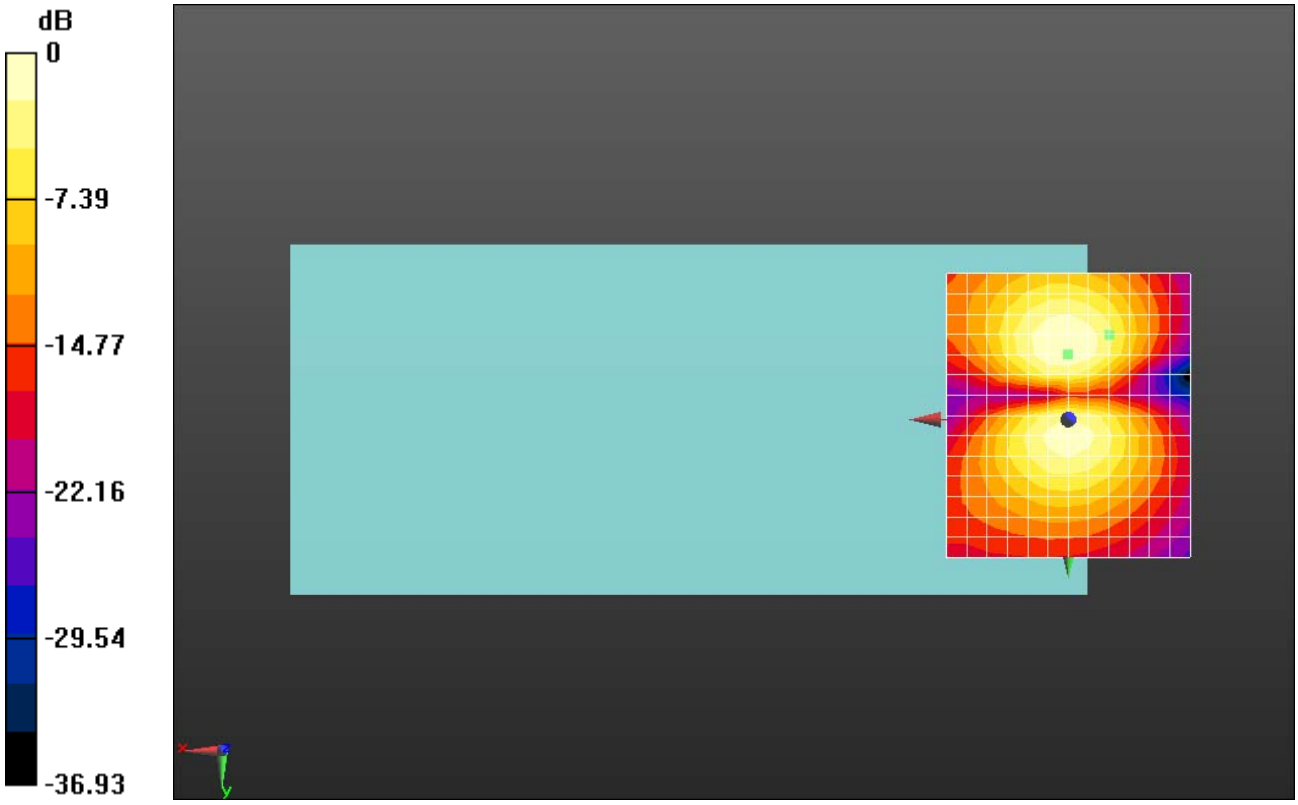
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 2.4GHz_802.11n-HT20 MCS0_AMR 12.20Kbps_Ch7_Y

Communication System: UID 10193 - CAA, IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK);
Frequency: 2442 MHz;Duty Cycle: 1:6.44169
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch7/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 33.54 dB
ABM1 comp = -15.27 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -17.5, 3.7 mm



0 dB = 47.51 = 33.54 dB

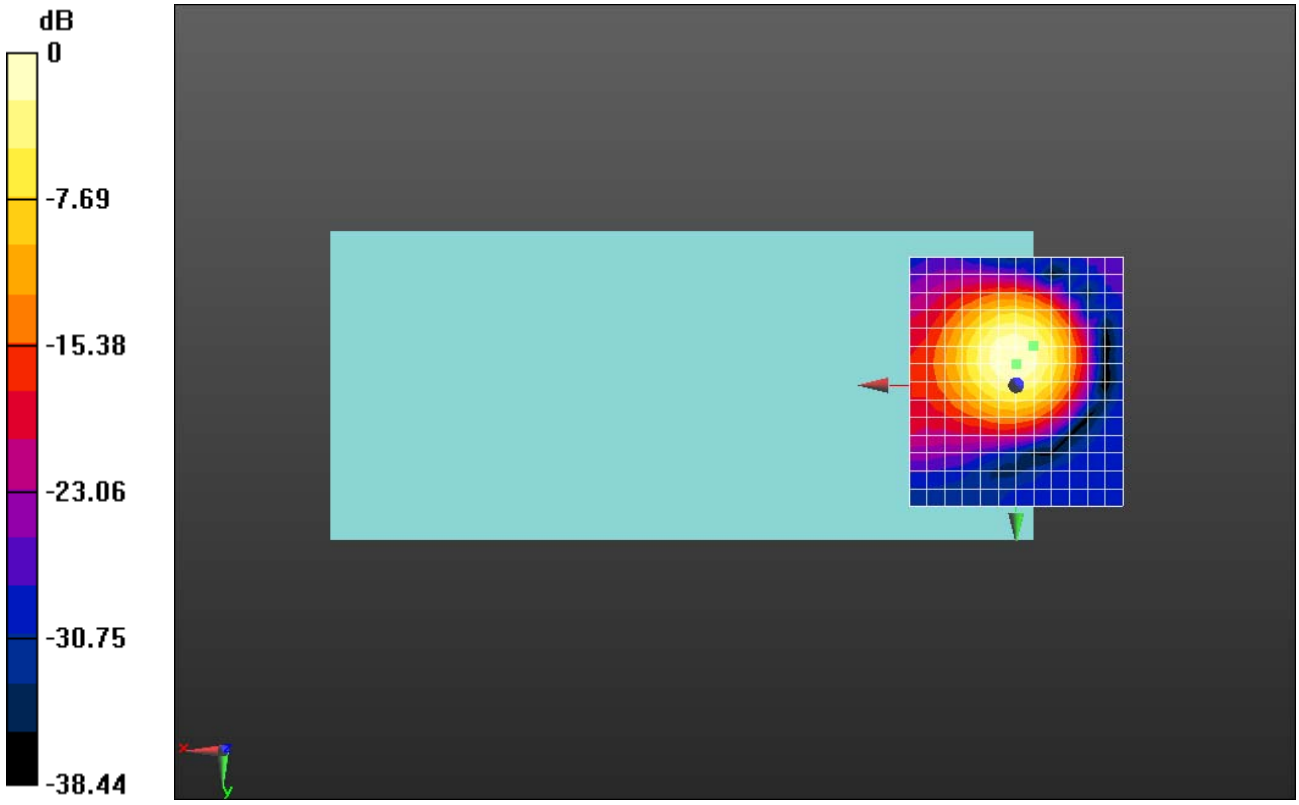
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 2.4GHz_802.11n-HT40 MCS0_AMR 12.20Kbps_Ch7_Z

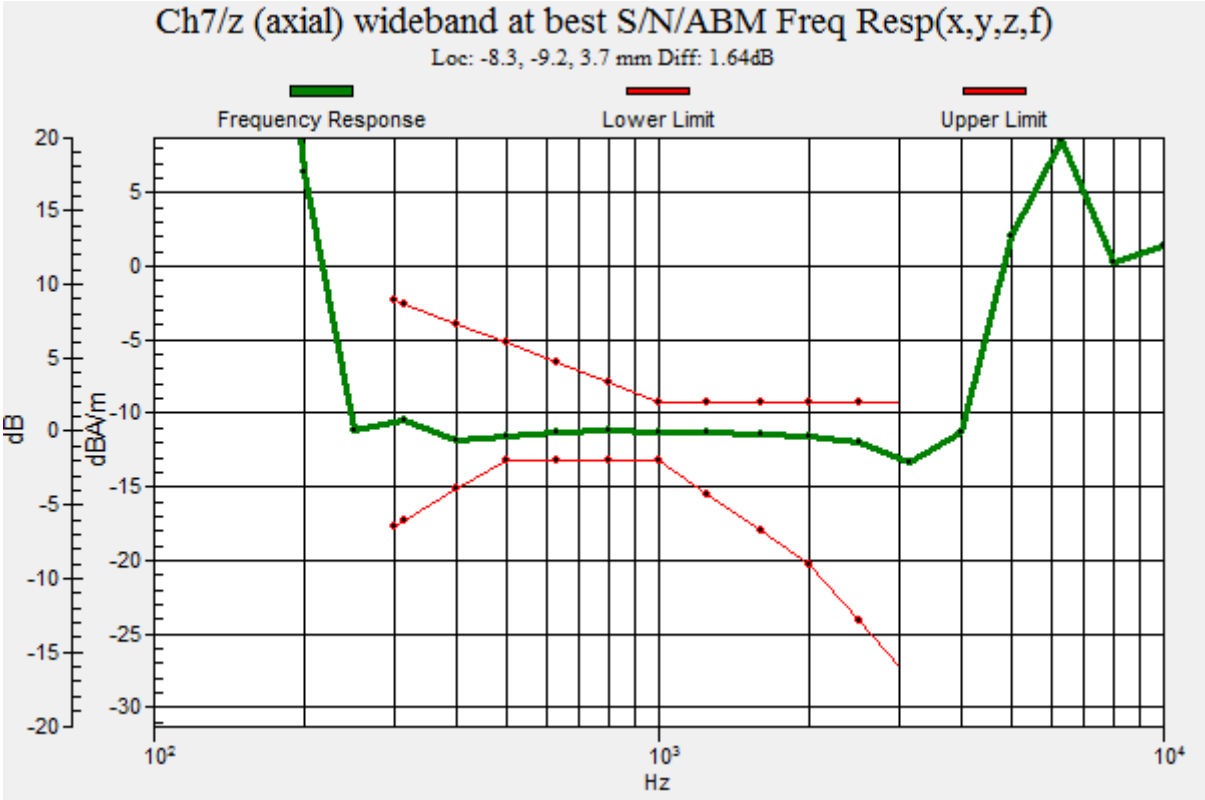
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 2442 MHz;Duty Cycle: 1:6.45654
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch7/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.99 dB
ABM1 comp = -6.14 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 63.01 = 35.99 dB


Ch7/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.3, -9.2, 3.7 mm Diff: 1.64dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

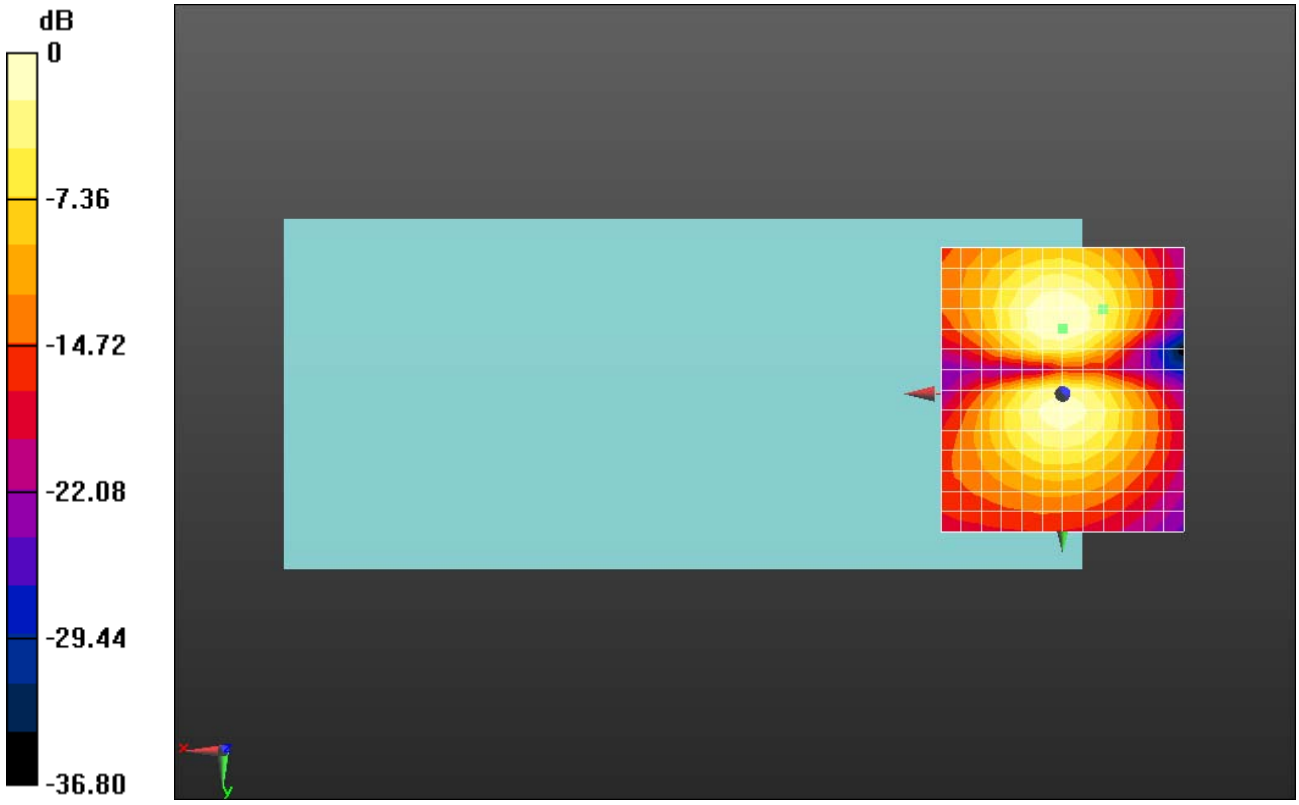
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 2.4GHz_802.11n-HT40 MCS0_AMR 12.20Kbps_Ch7_Y

Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 2442 MHz;Duty Cycle: 1:6.45654
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch7/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 33.43 dB
ABM1 comp = -15.23 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -17.5, 3.7 mm



0 dB = 46.93 = 33.43 dB

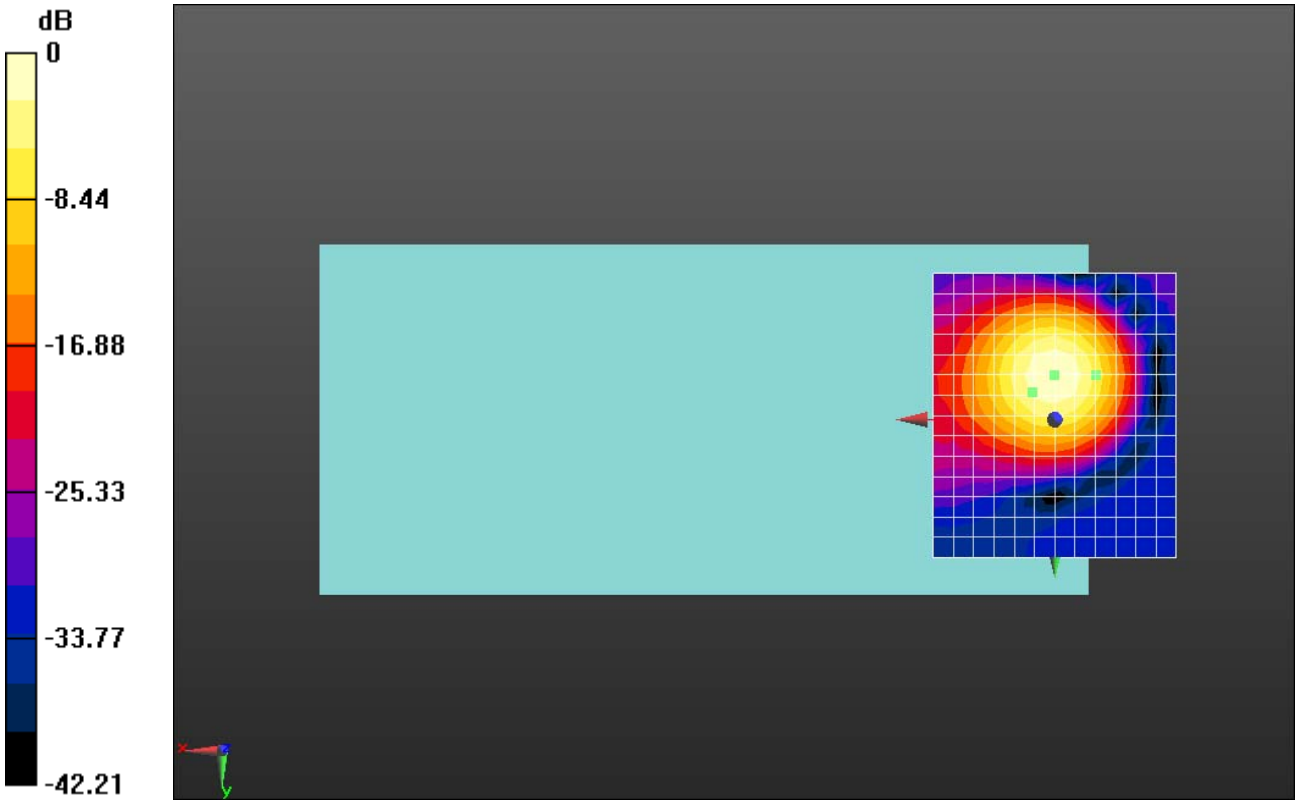
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 5.2GHz_802.11a 6Mbps_AMR 12.20Kbps_Ch44_Z

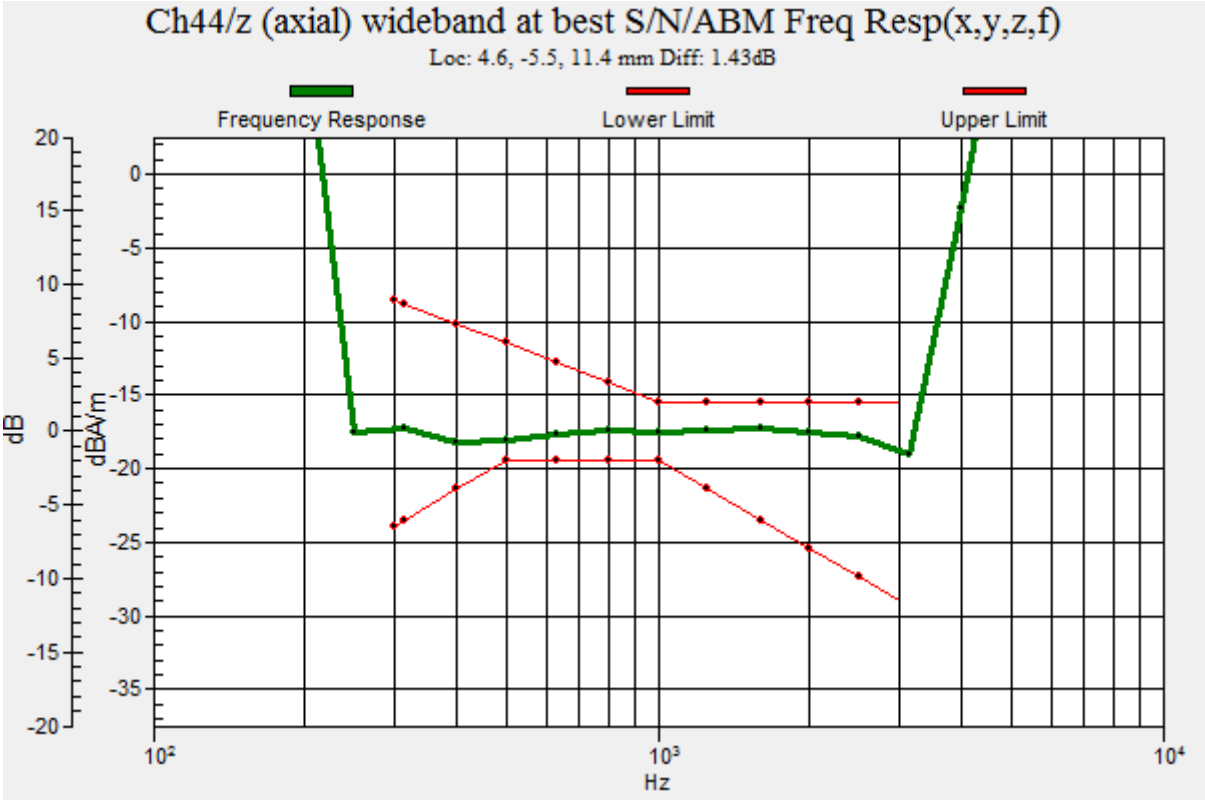
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5220 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch44/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 31.78 dB
ABM1 comp = -12.16 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -9.2, 3.7 mm



0 dB = 38.81 = 31.78 dB


Ch44/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.6, -5.5, 11.4 mm Diff: 1.43dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
0
-5
-10
-15
-20
-25
-30
-35
10²
10³
10⁴

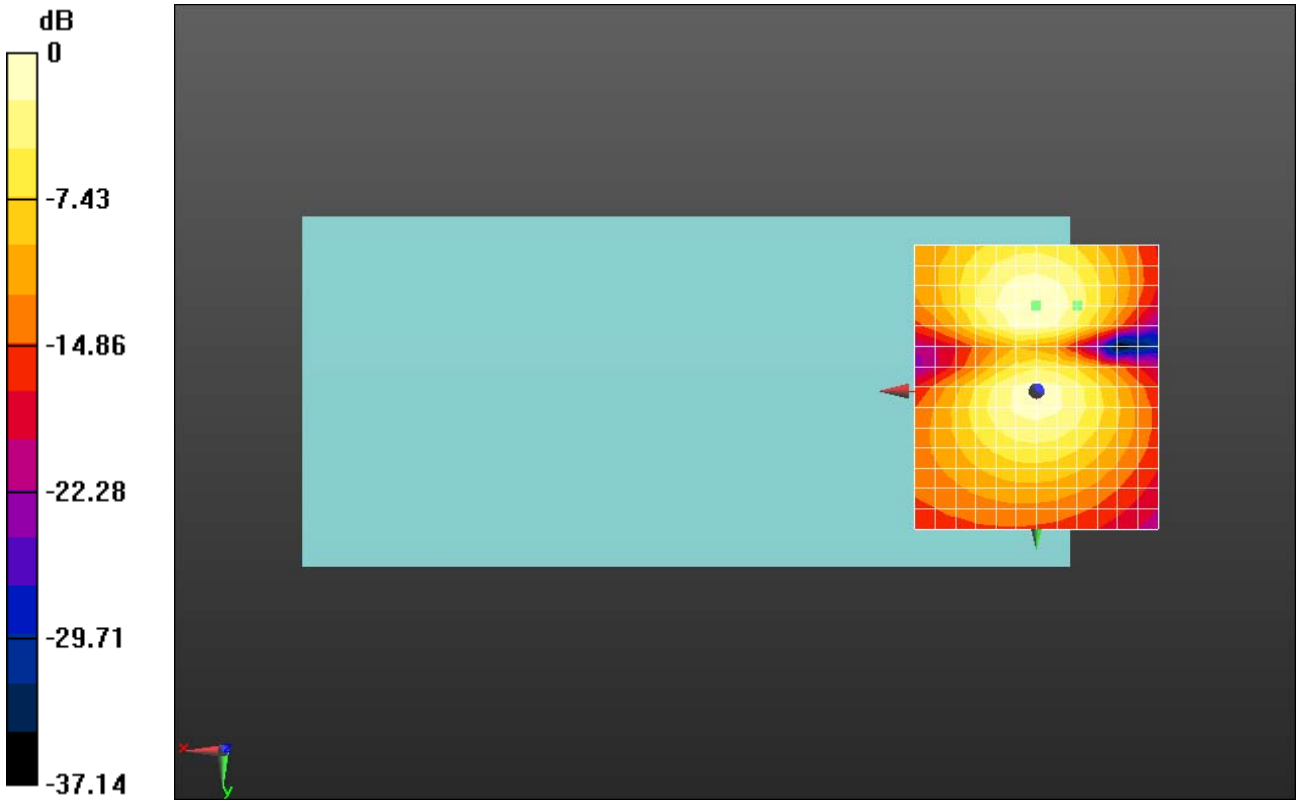
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 5.2GHz_802.11a 6Mbps_AMR 12.20Kbps_Ch44_Y

Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5220 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch44/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.01 dB
ABM1 comp = -15.44 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -17.5, 3.7 mm



0 dB = 39.85 = 32.01 dB

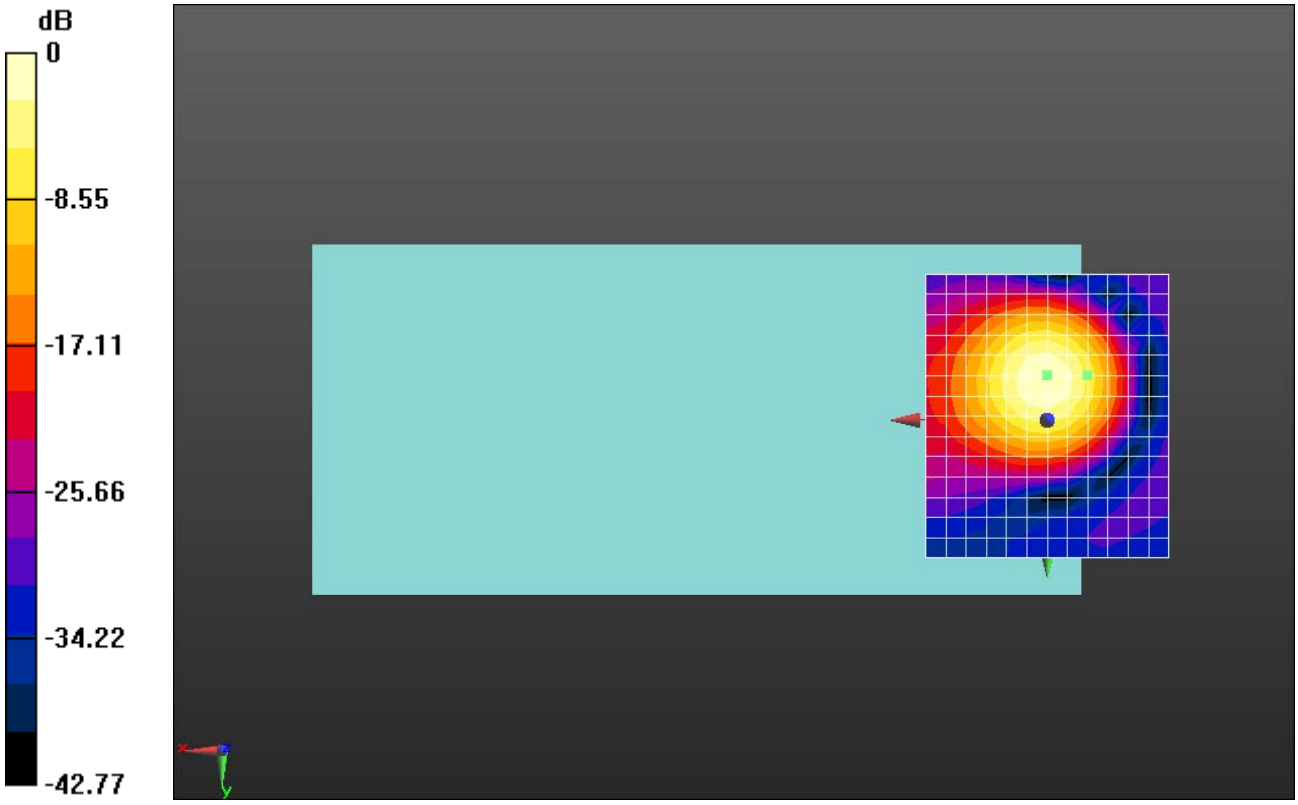
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 5.3GHz_802.11a 6Mbps_AMR 12.20Kbps_Ch60_Z

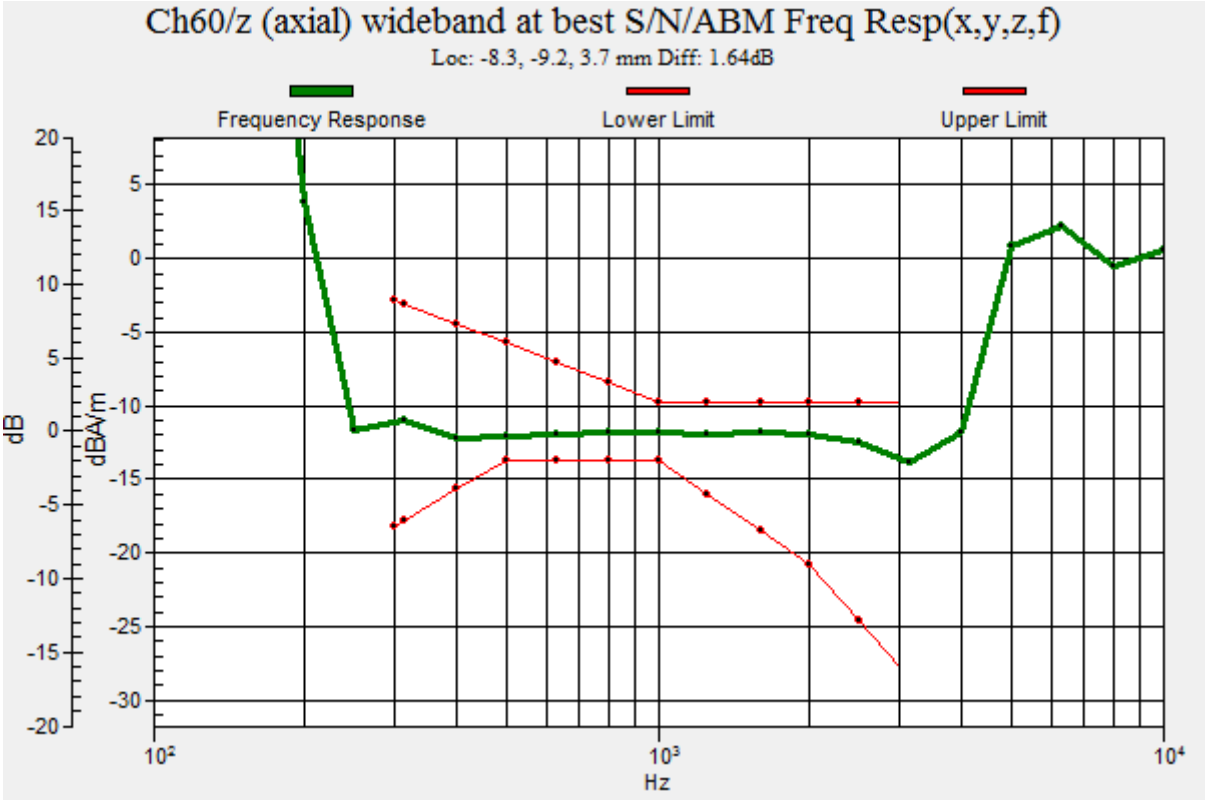
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5300 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch60/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 33.65 dB
ABM1 comp = -10.63 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -9.2, 3.7 mm



0 dB = 48.11 = 33.64 dB


Ch60/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.3, -9.2, 3.7 mm Diff: 1.64dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴

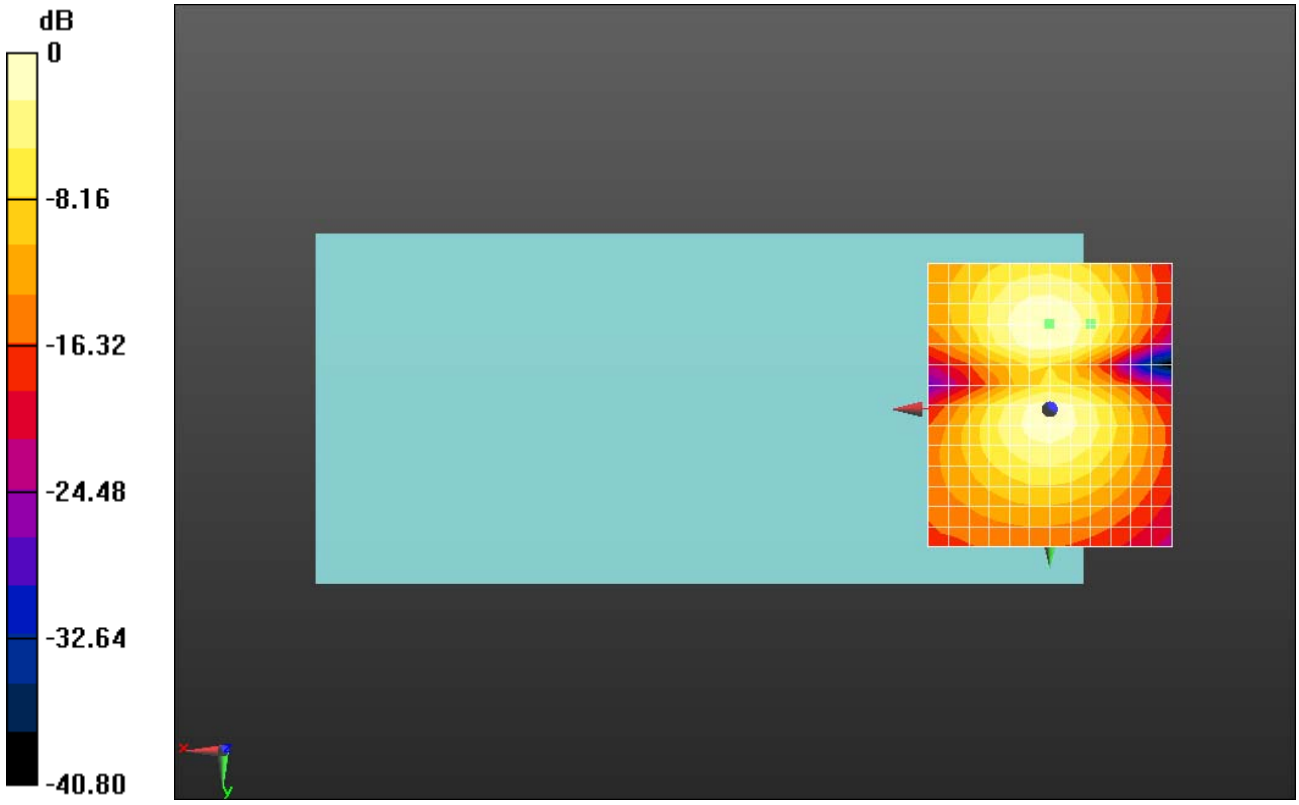
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 5.3GHz_802.11a 6Mbps_AMR 12.20Kbps_Ch60_Y

Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5300 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch60/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 31.64 dB
ABM1 comp = -15.48 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -17.5, 3.7 mm



0 dB = 38.18 = 31.64 dB

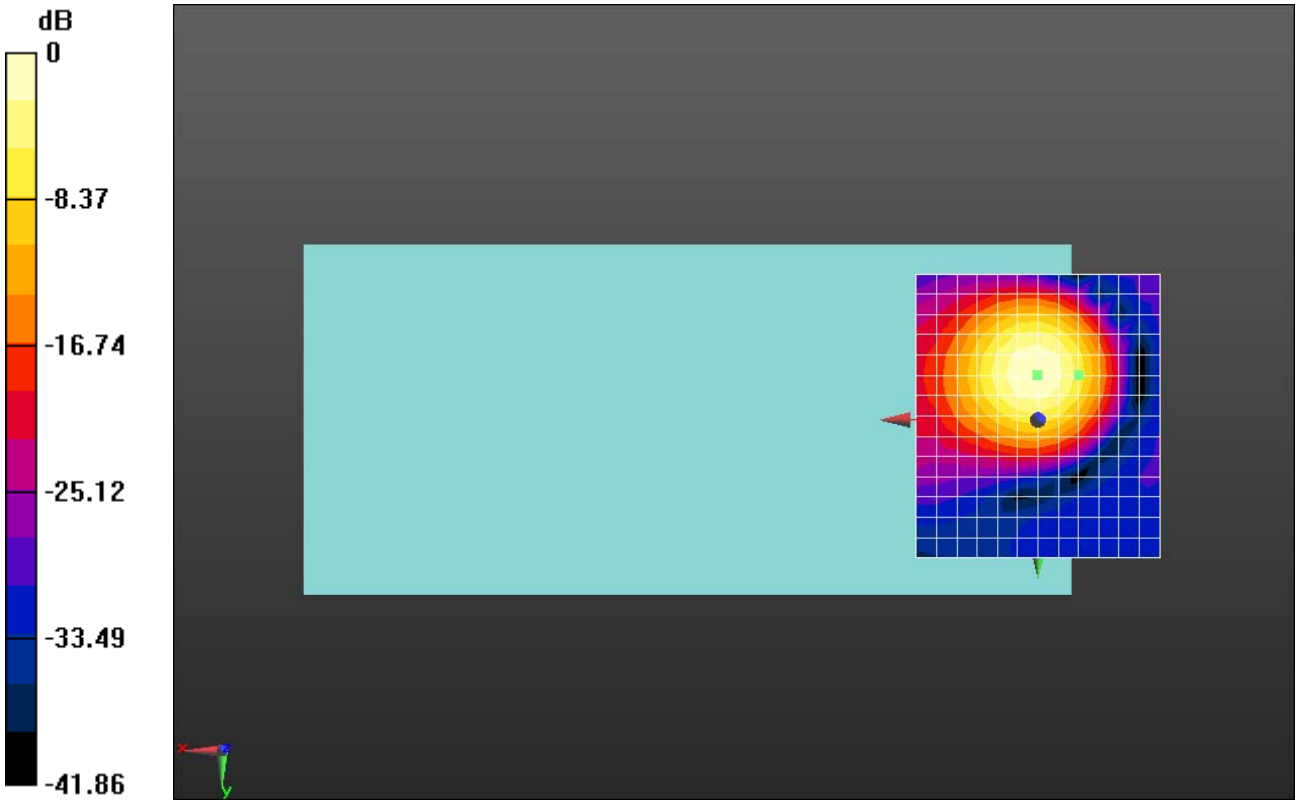
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 5.5GHz_802.11a 6Mbps_AMR 12.20Kbps_Ch120_Z

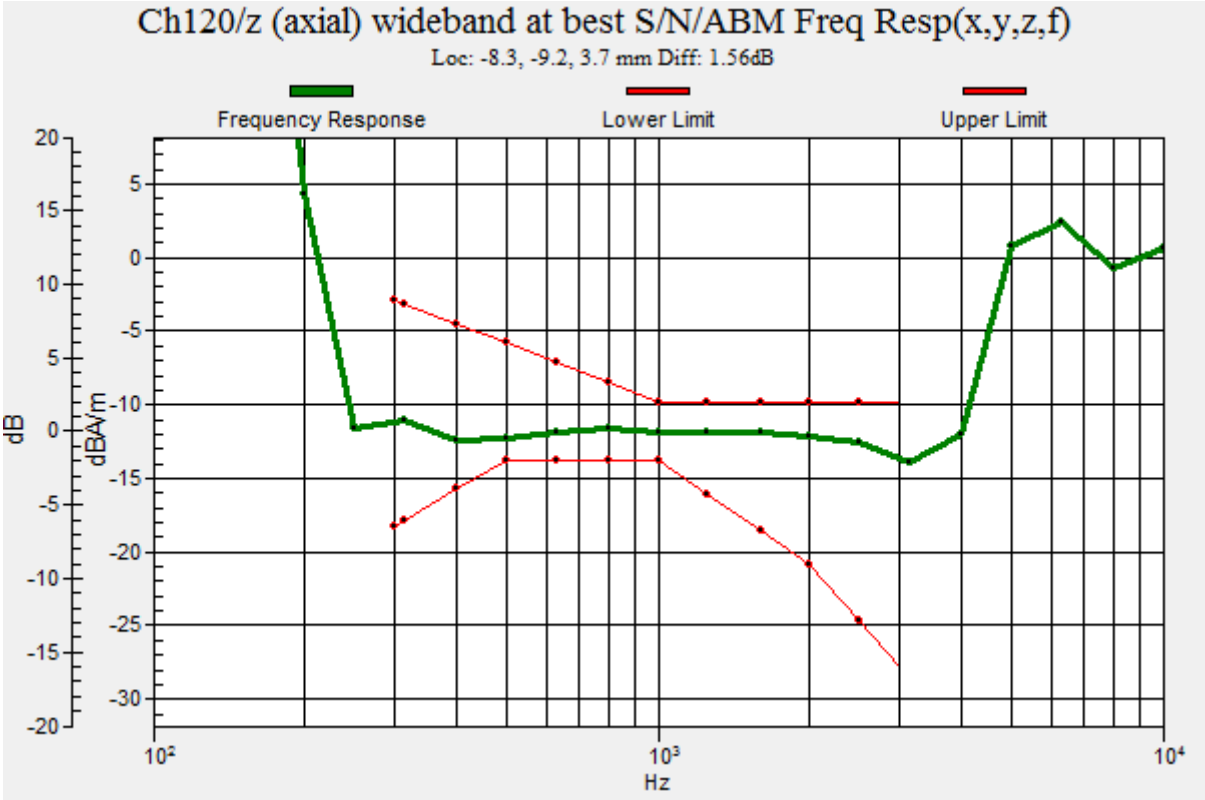
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5600 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch120/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 33.75 dB
ABM1 comp = -10.67 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -9.2, 3.7 mm



0 dB = 48.72 = 33.75 dB


Ch120/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -8.3, -9.2, 3.7 mm Diff: 1.56dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

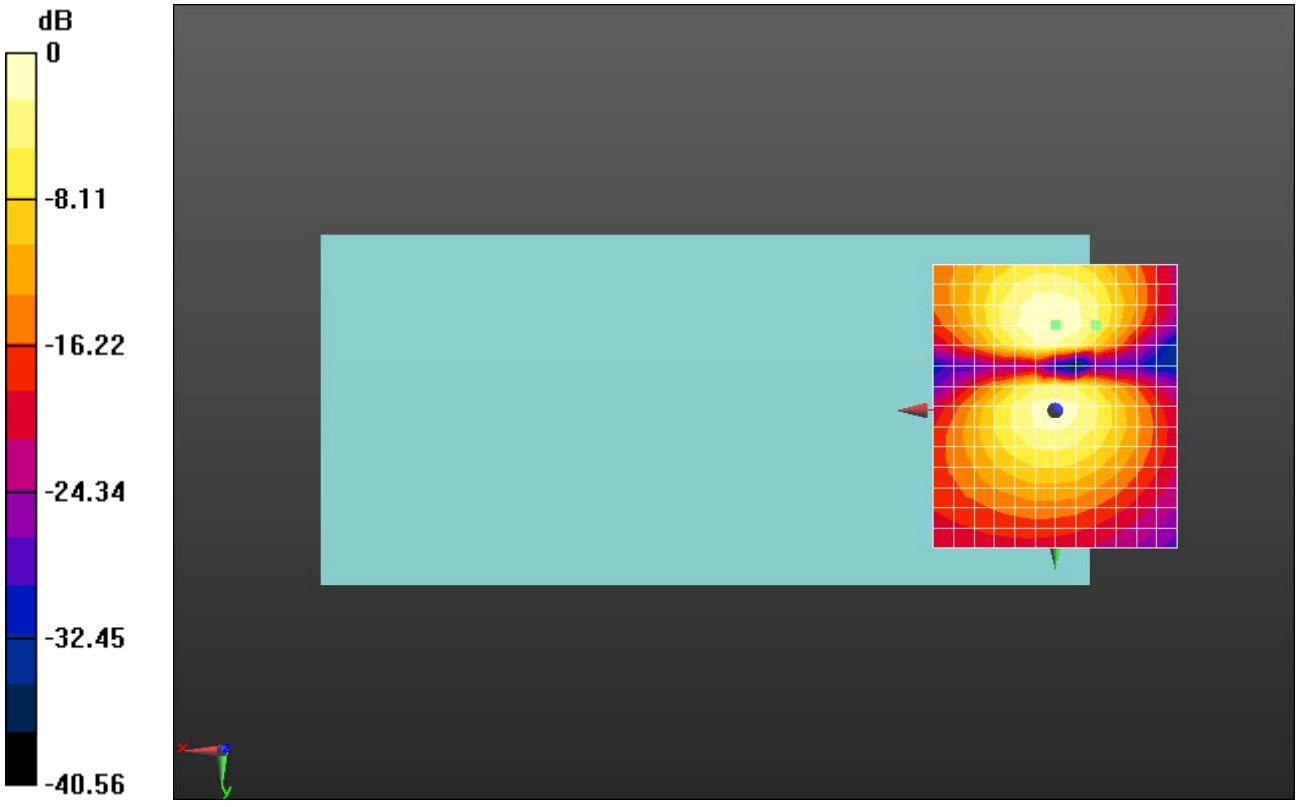
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 5.5GHz_802.11a 6Mbps_AMR 12.20Kbps_Ch120_Y

Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5600 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch120/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 31.72 dB
ABM1 comp = -15.77 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -17.5, 3.7 mm



0 dB = 38.56 = 31.72 dB

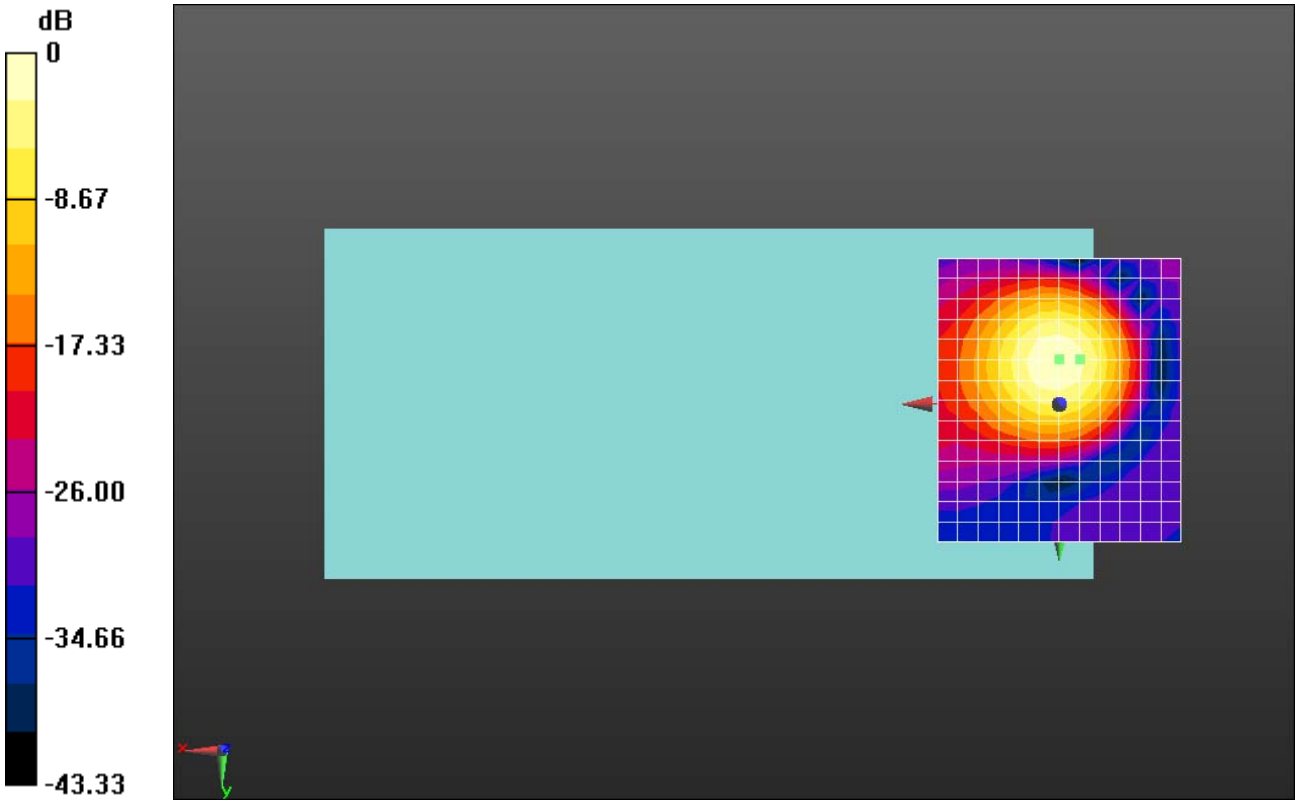
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 5.8GHz_802.11a 6Mbps_AMR 12.20Kbps_Ch157_Z

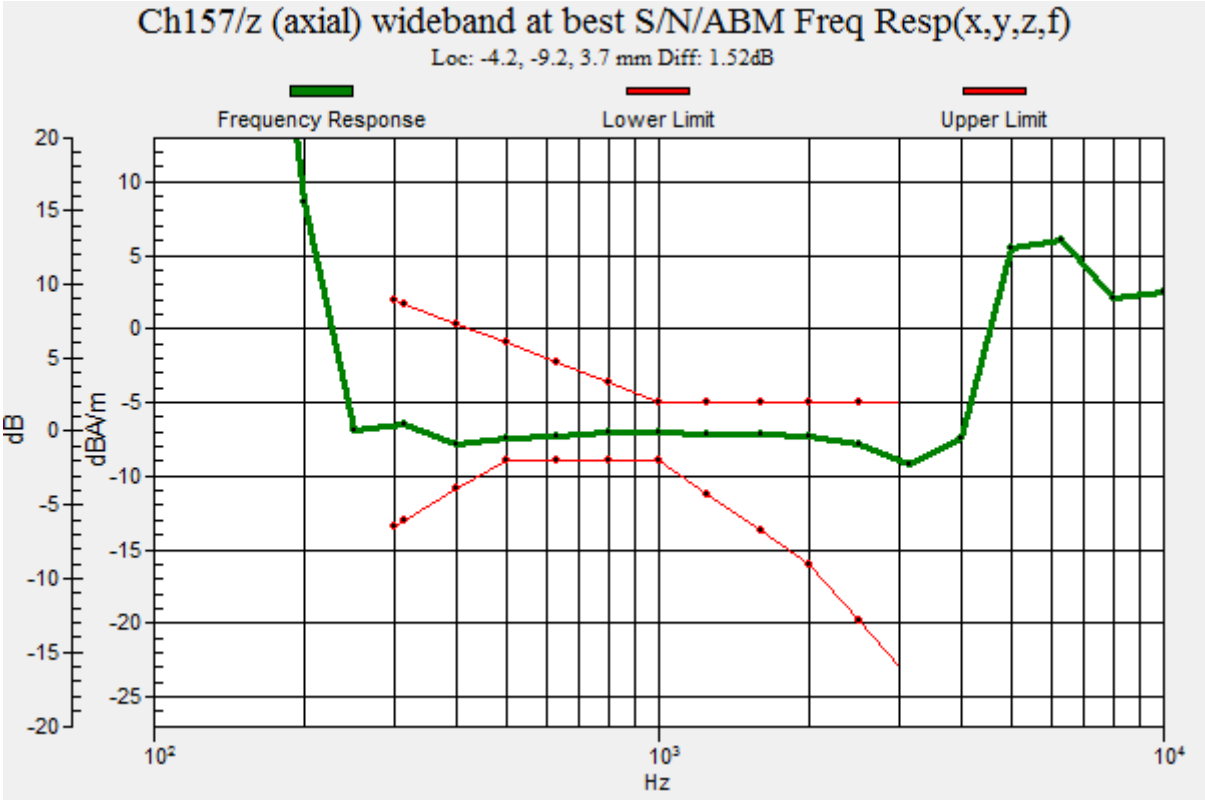
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5785 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- 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)

Ch157/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 33.79 dB
ABM1 comp = -5.92 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 48.84 = 33.78 dB


Ch157/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -9.2, 3.7 mm Diff: 1.52dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
-25
10²
10³
10⁴

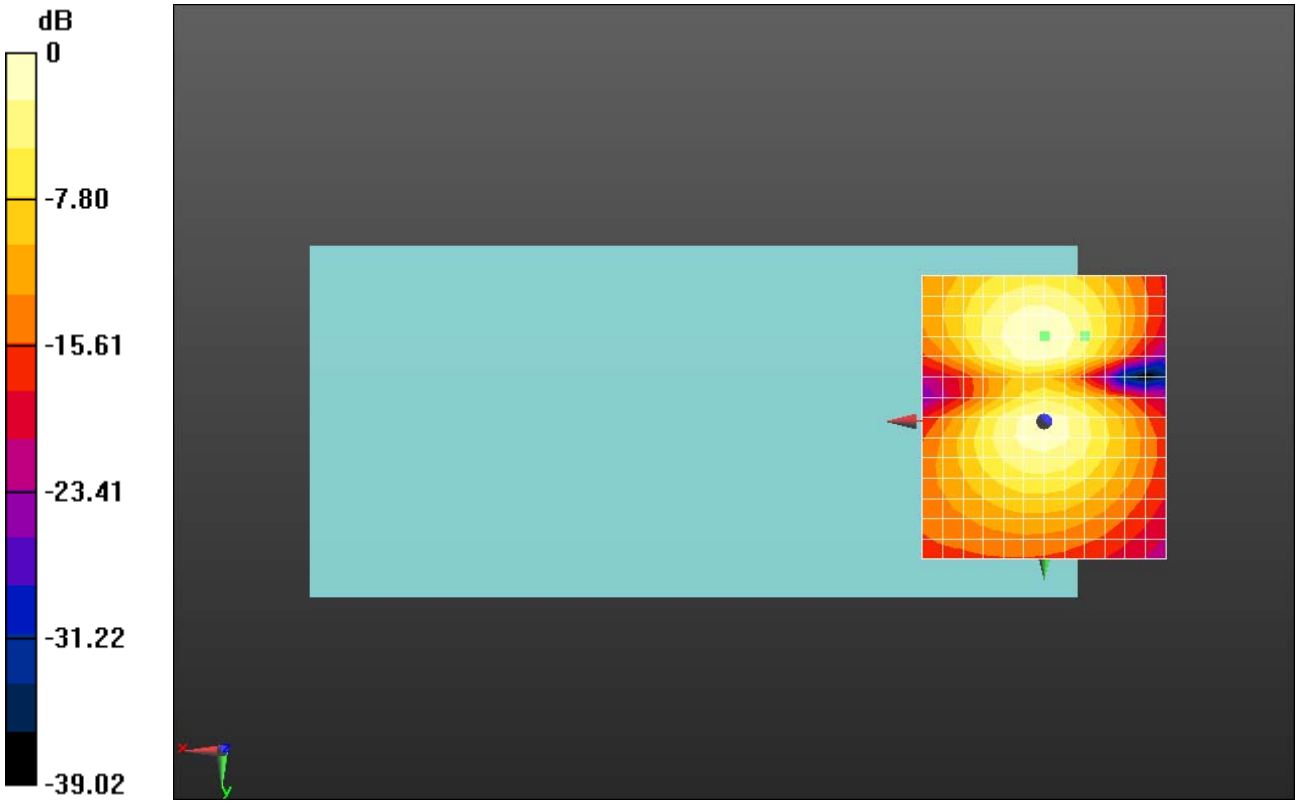
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.17

HAC_T-Coil_VoWiFi 5.8GHz_802.11a 6Mbps_AMR 12.20Kbps_Ch157_Y

Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5785 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch157/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.23 dB
ABM1 comp = -15.47 dBA/m
BWC Factor = 0.17 dB
Location: -8.3, -17.5, 3.7 mm



0 dB = 41.37 = 32.33 dB

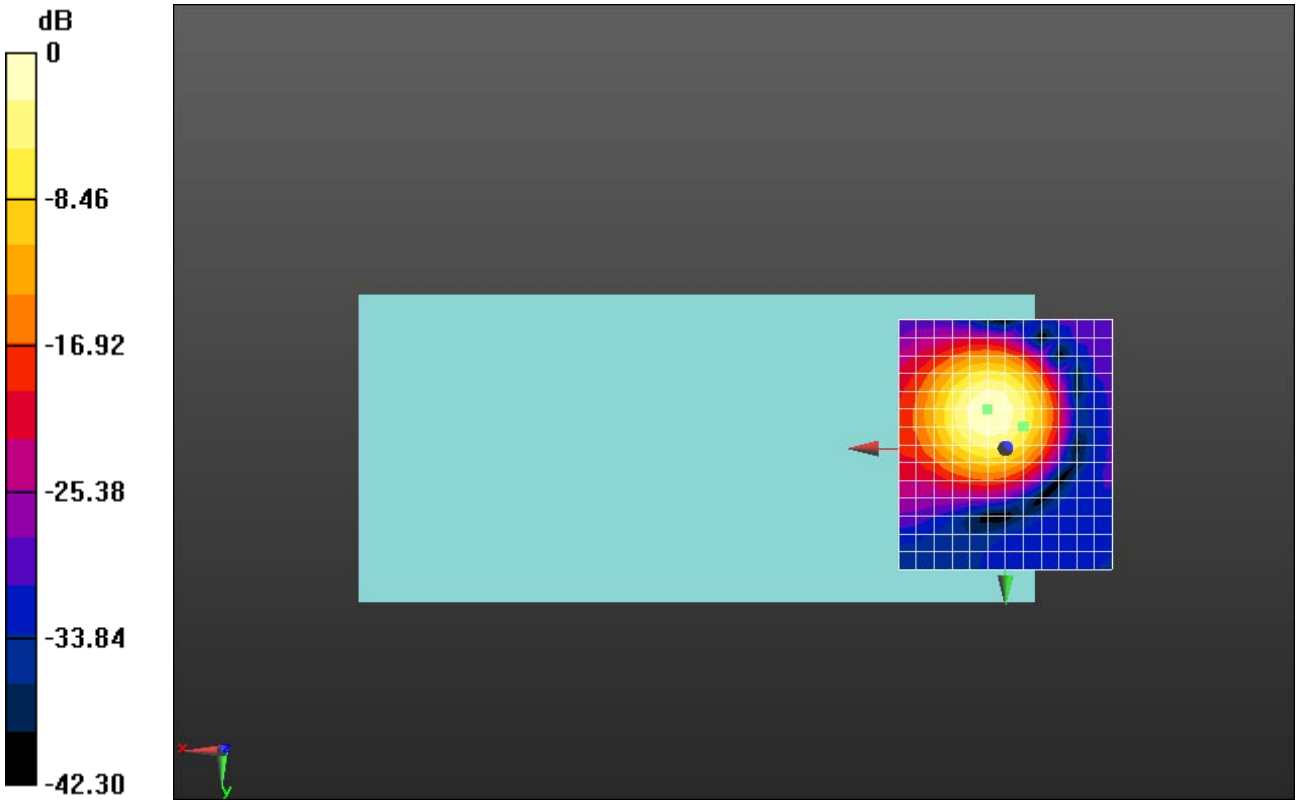
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11n-HT20 MCS0_AMR 12.20Kbps_Ch44_Z

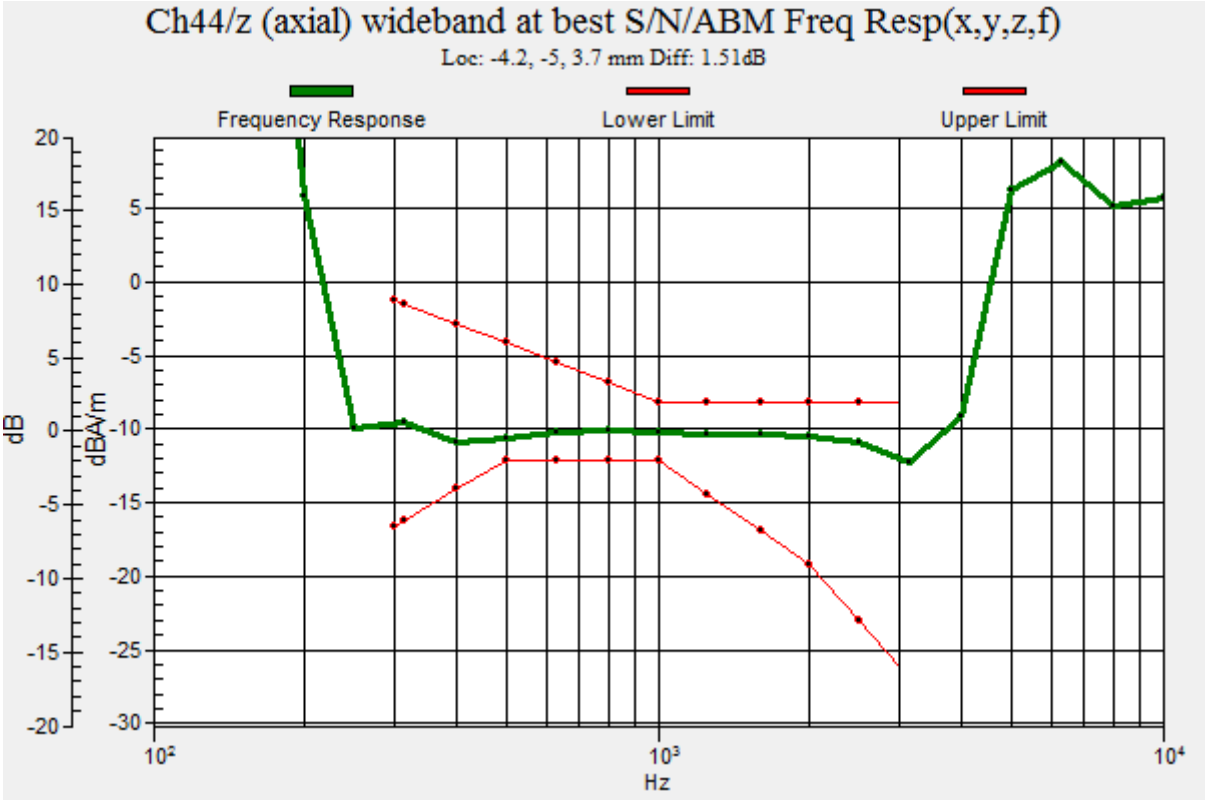
Communication System: UID 10193 - CAA, IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK);
Frequency: 5220 MHz;Duty Cycle: 1:6.44169
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch44/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 31.43 dB
ABM1 comp = -9.14 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -5, 3.7 mm



0 dB = 37.28 = 31.43 dB


Ch44/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -5, 3.7 mm Diff: 1.51dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
5
0
-5
-10
-15
-20
-25
-30
10²
10³
10⁴

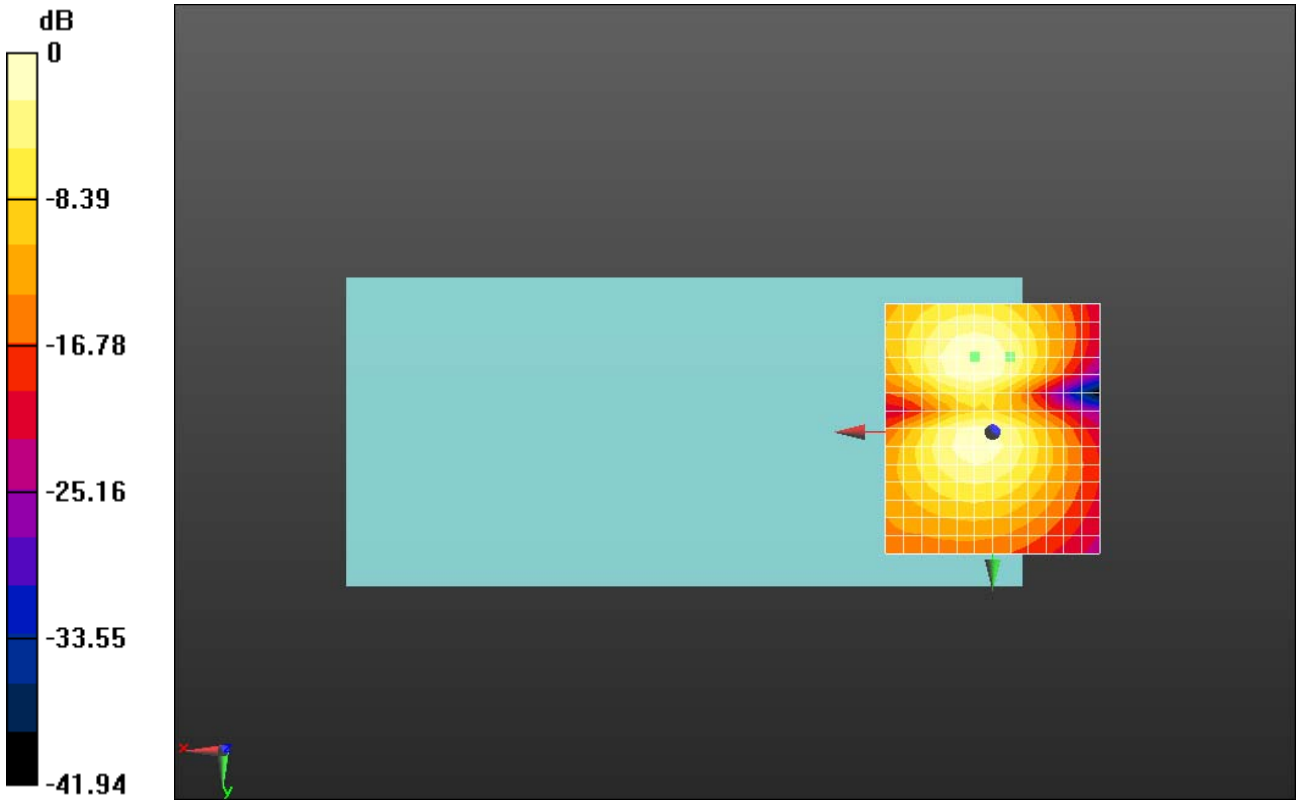
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11n-HT20 MCS0_AMR 12.20Kbps_Ch44_Y

Communication System: UID 10193 - CAA, IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK);
Frequency: 5220 MHz;Duty Cycle: 1:6.44169
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch44/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.75 dB
ABM1 comp = -14.28 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 43.40 = 32.75 dB

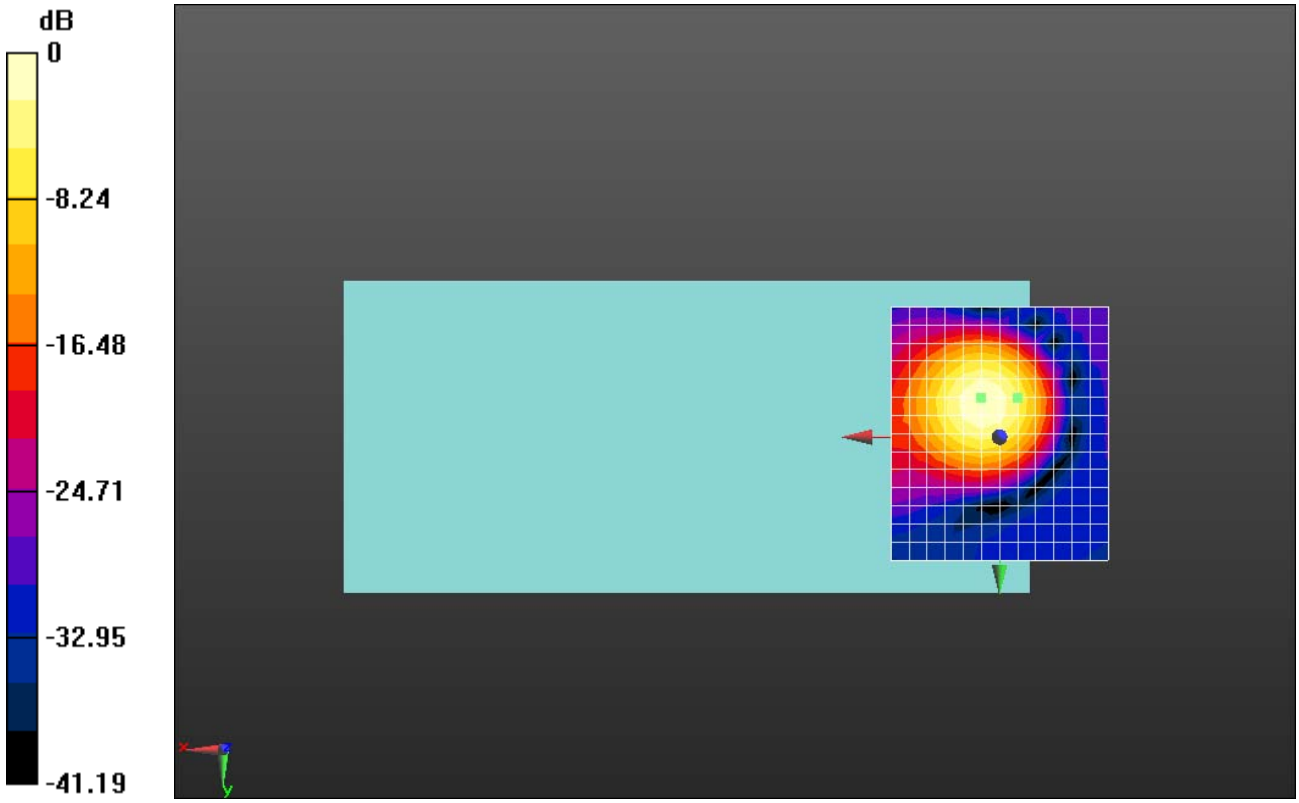
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11n-HT40 MCS0_AMR 12.20Kbps_Ch46_Z

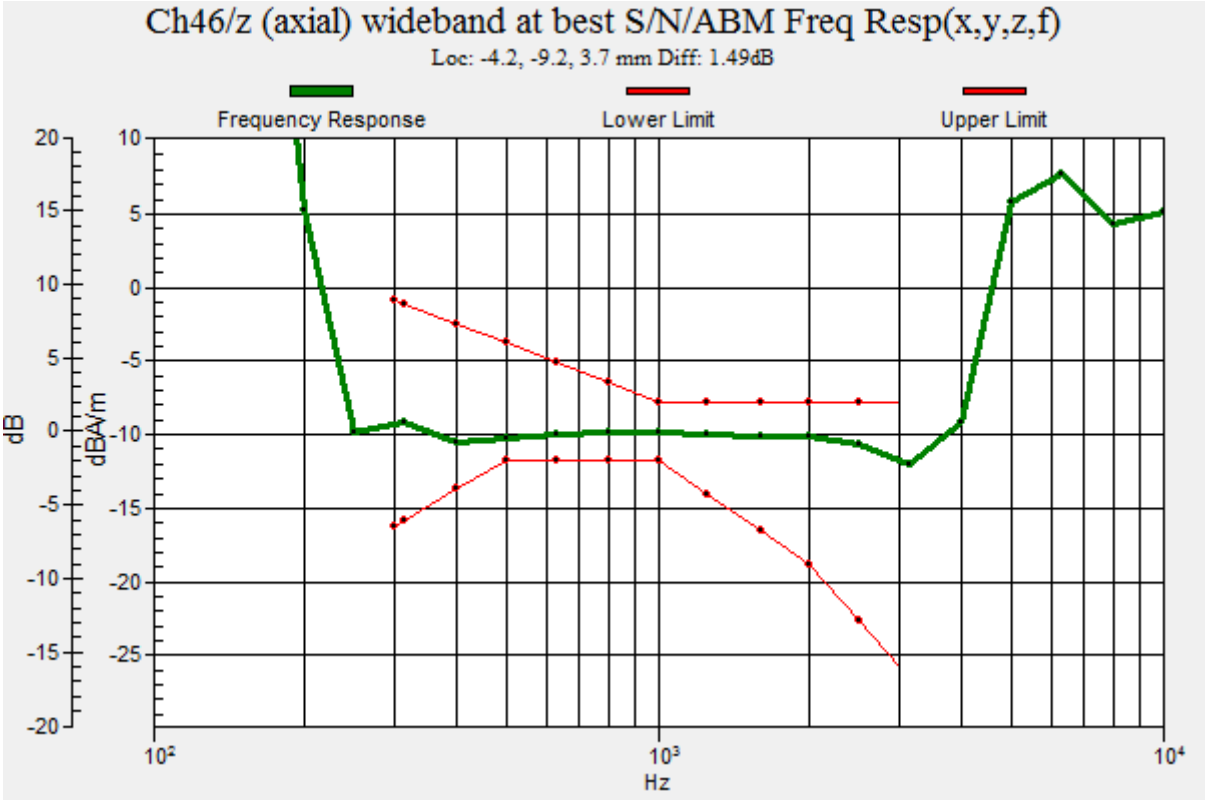
Communication System: UID 10117 - CAA, IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK); Frequency: 5230 MHz;Duty Cycle: 1:6.4121
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch46/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.04 dB
ABM1 comp = -8.82 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 39.99 = 32.04 dB


Ch46/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -9.2, 3.7 mm Diff: 1.49dB
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

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

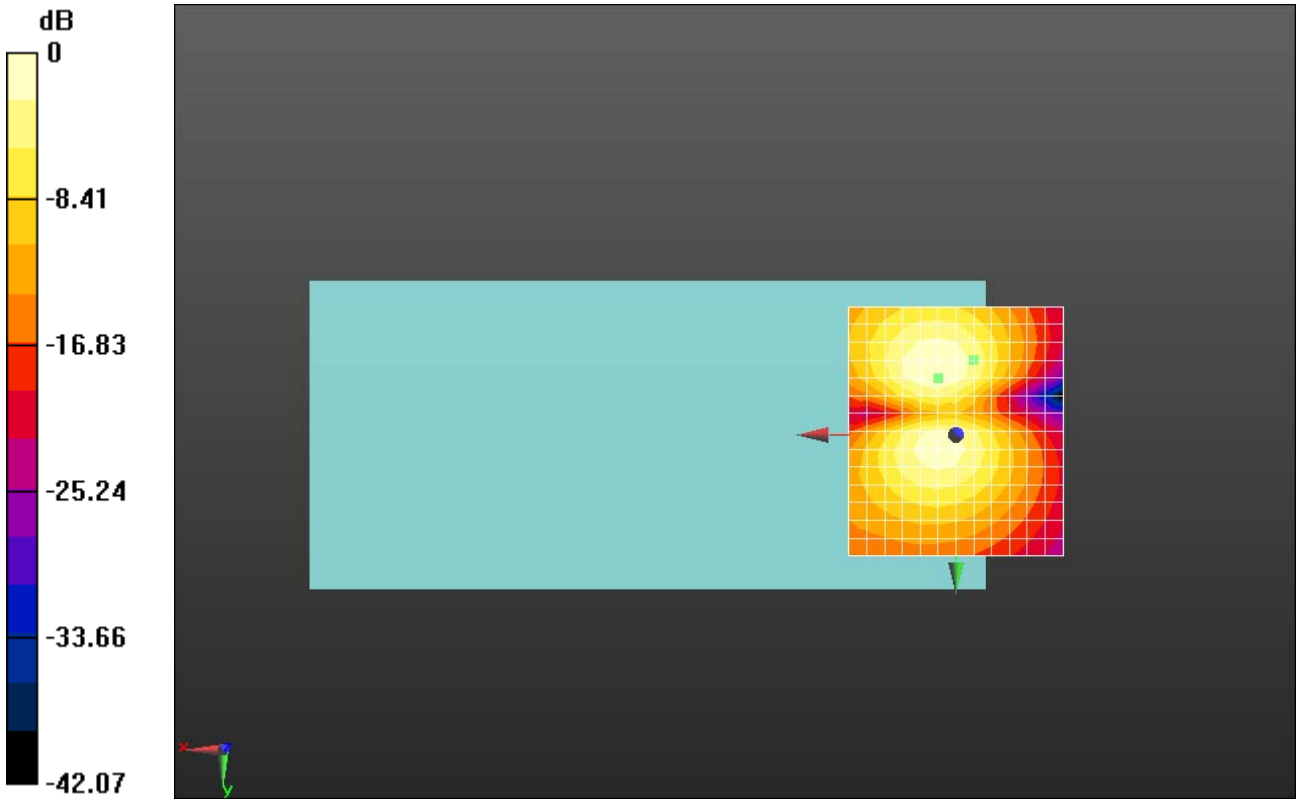
HAC_T-Coil_VoWiFi 5.2GHz_802.11n-HT40 MCS0_AMR 12.20Kbps_Ch46_Y

Communication System: UID 10117 - CAA, IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK);
Frequency: 5230 MHz;Duty Cycle: 1:6.4121
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch46/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 32.86 dB
ABM1 comp = -14.58 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 43.94 = 32.86 dB

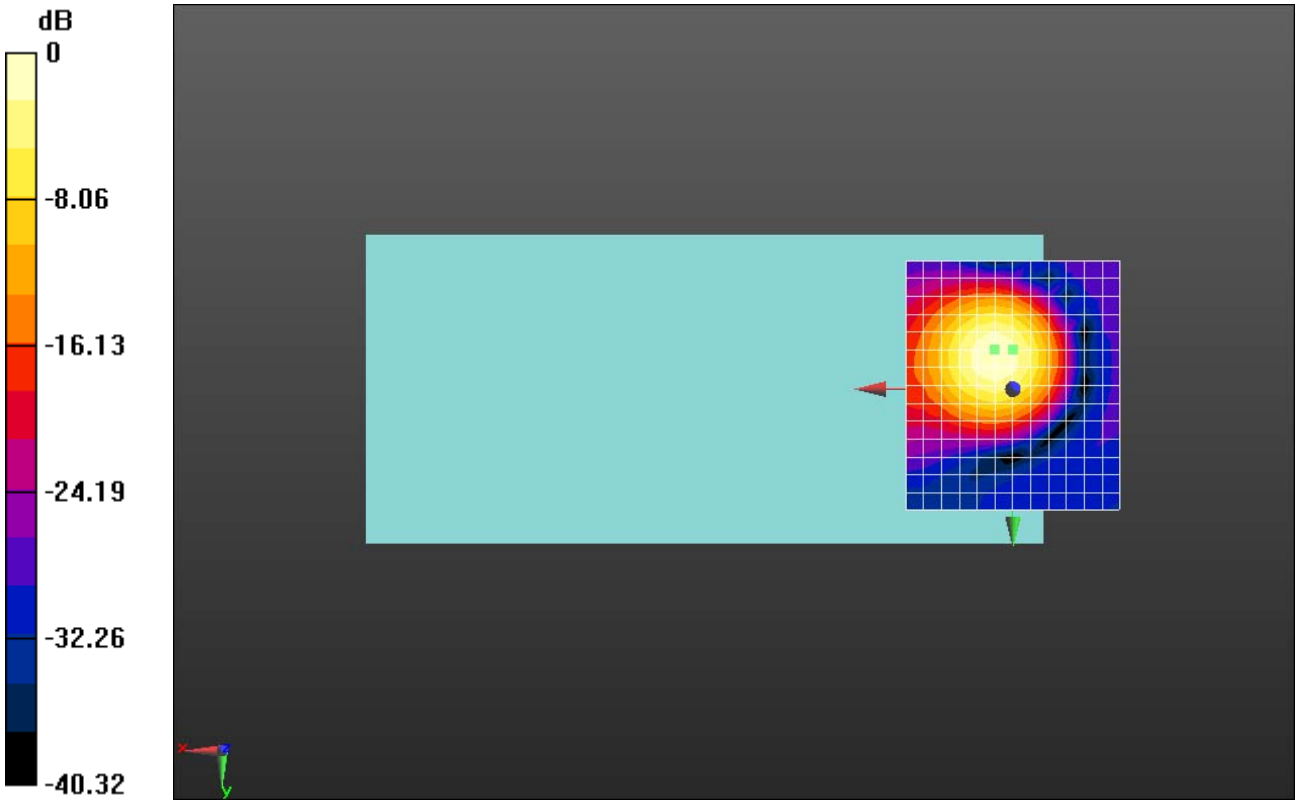
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT20 MCS0_AMR 12.20Kbps_Ch44_Z

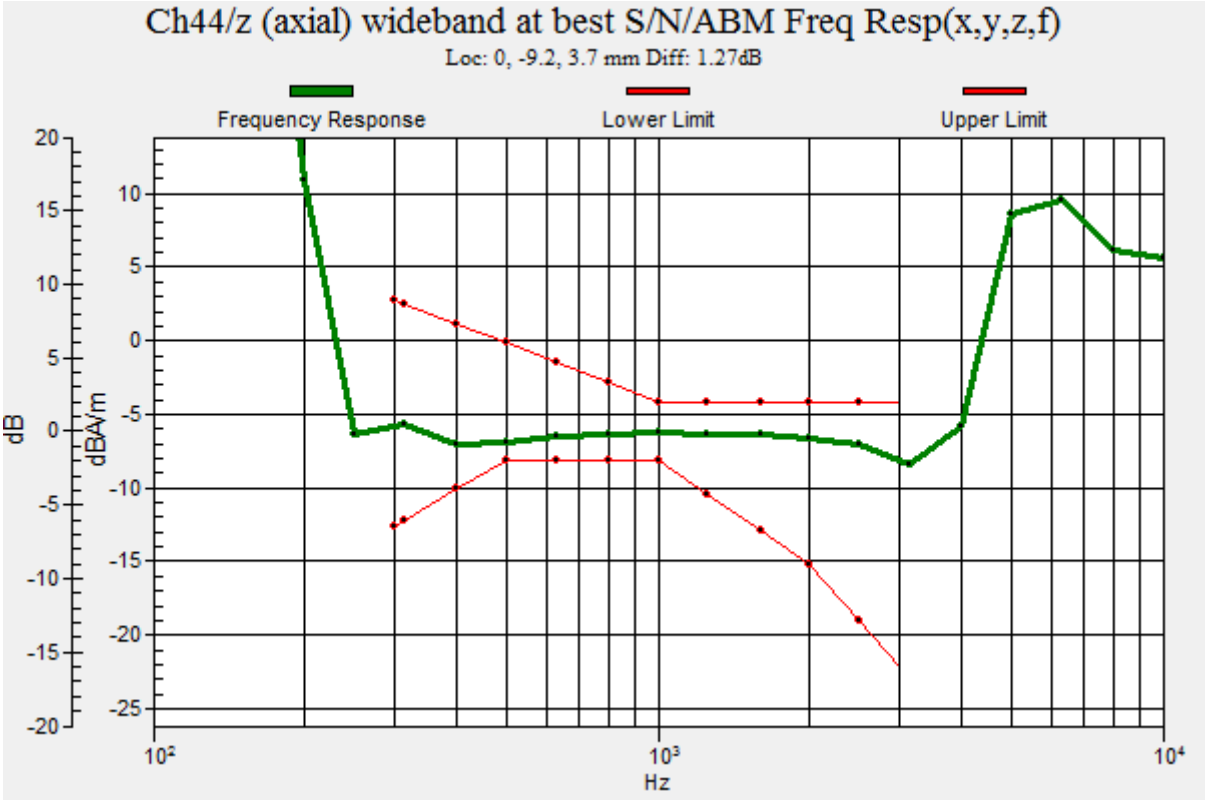
Communication System: UID 10400 - AAA, IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle); Frequency: 5220 MHz;Duty Cycle: 1:6.87068
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch44/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.03 dB
ABM1 comp = -5.25 dBA/m
BWC Factor = 0.17 dB
Location: 0, -9.2, 3.7 mm



0 dB = 39.95 = 32.03 dB


Ch44/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 1.27dB
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

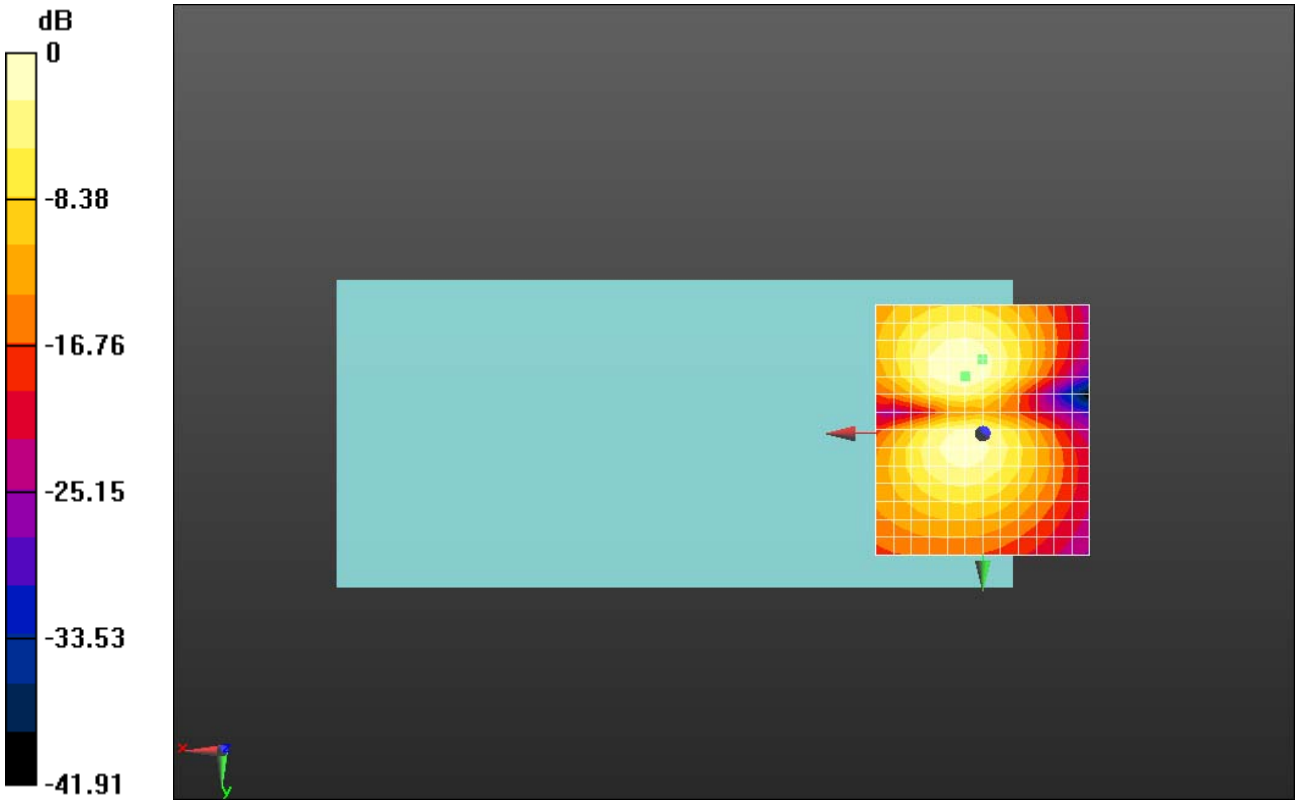
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT20 MCS0_AMR 12.22Kbps_Ch44_Y

Communication System: UID 10400 - AAA, IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle); Frequency: 5220 MHz;Duty Cycle: 1:6.87068
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch44/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.57 dB
ABM1 comp = -12.05 dBA/m
BWC Factor = 0.17 dB
Location: 0, -17.5, 3.7 mm



0 dB = 42.52 = 32.57 dB

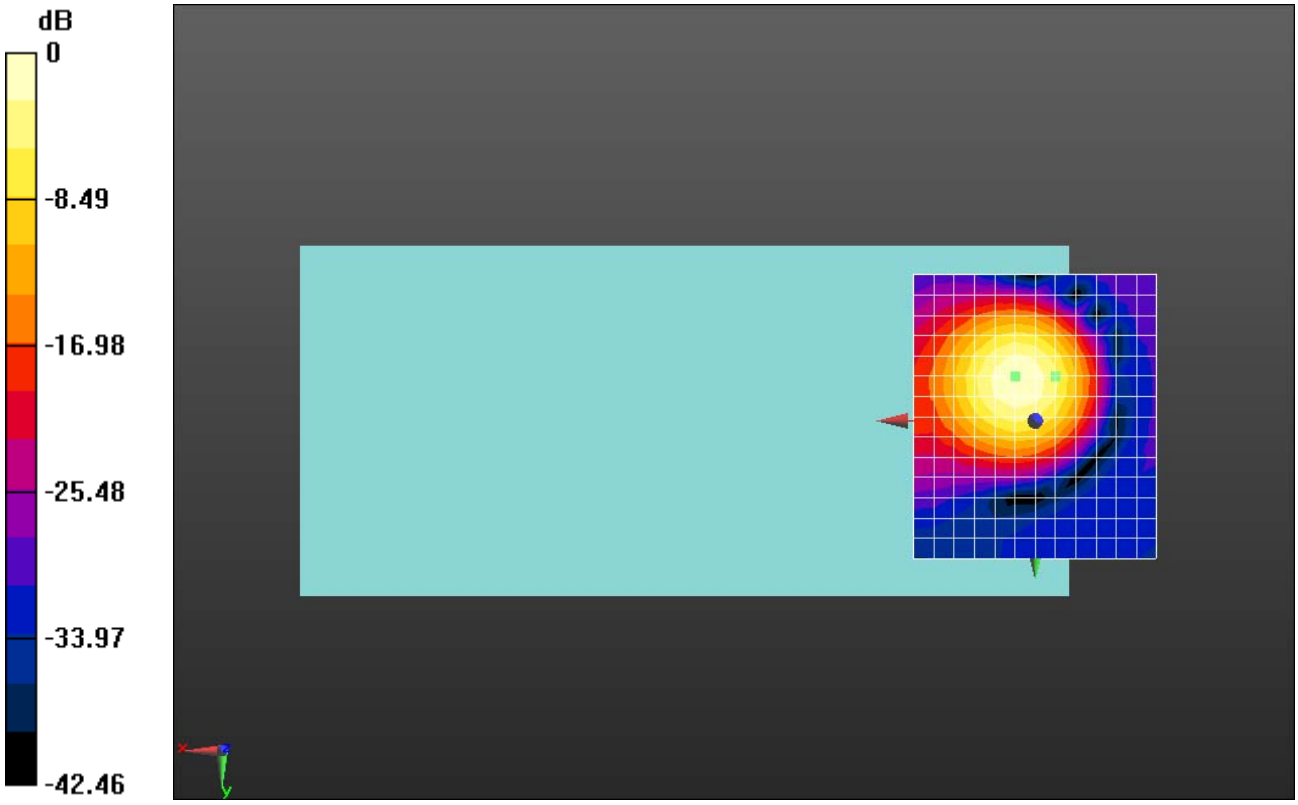
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT40 MCS0_AMR 12.20Kbps_Ch46_Z

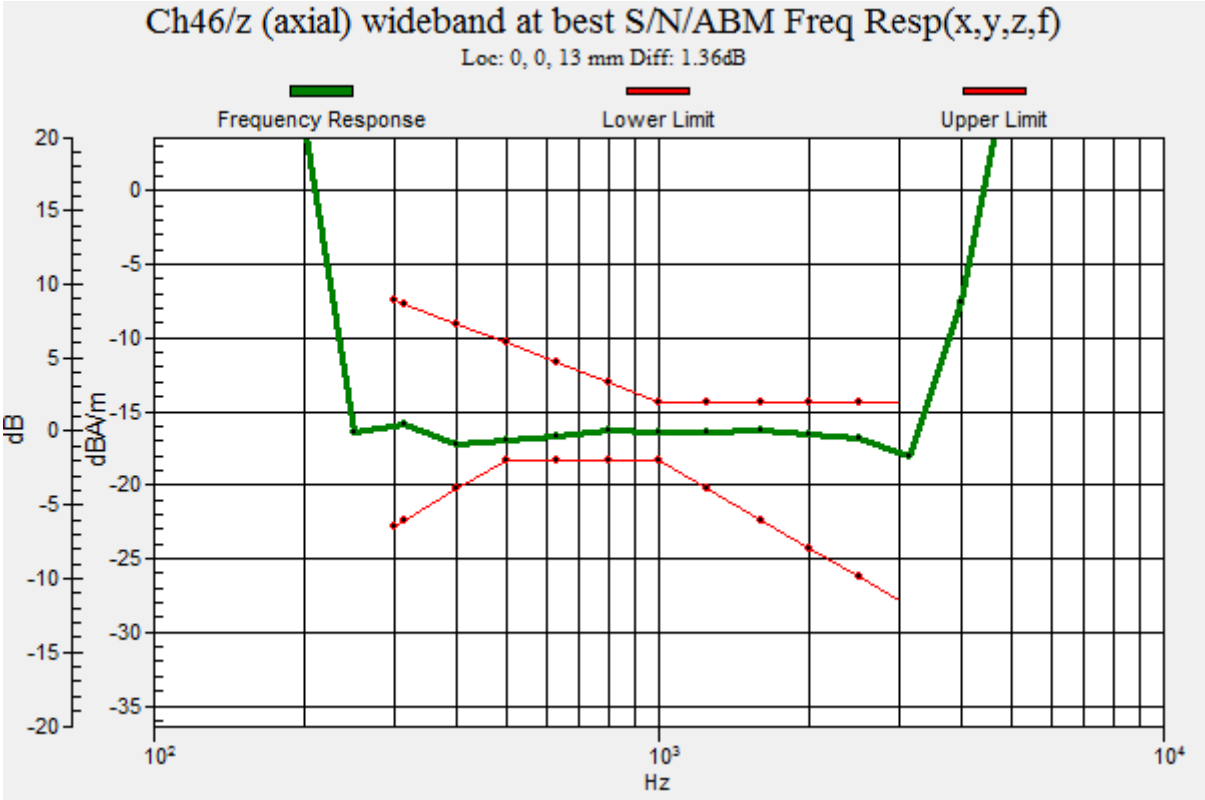
Communication System: UID 10401 - AAA, IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle); Frequency: 5230 MHz;Duty Cycle: 1:7.24436
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch46/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 31.94 dB
ABM1 comp = -6.13 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 39.52 = 31.94 dB


Ch46/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, 0, 13 mm Diff: 1.36dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
0
-5
-10
-15
-20
-25
-30
-35
10²
10³
10⁴

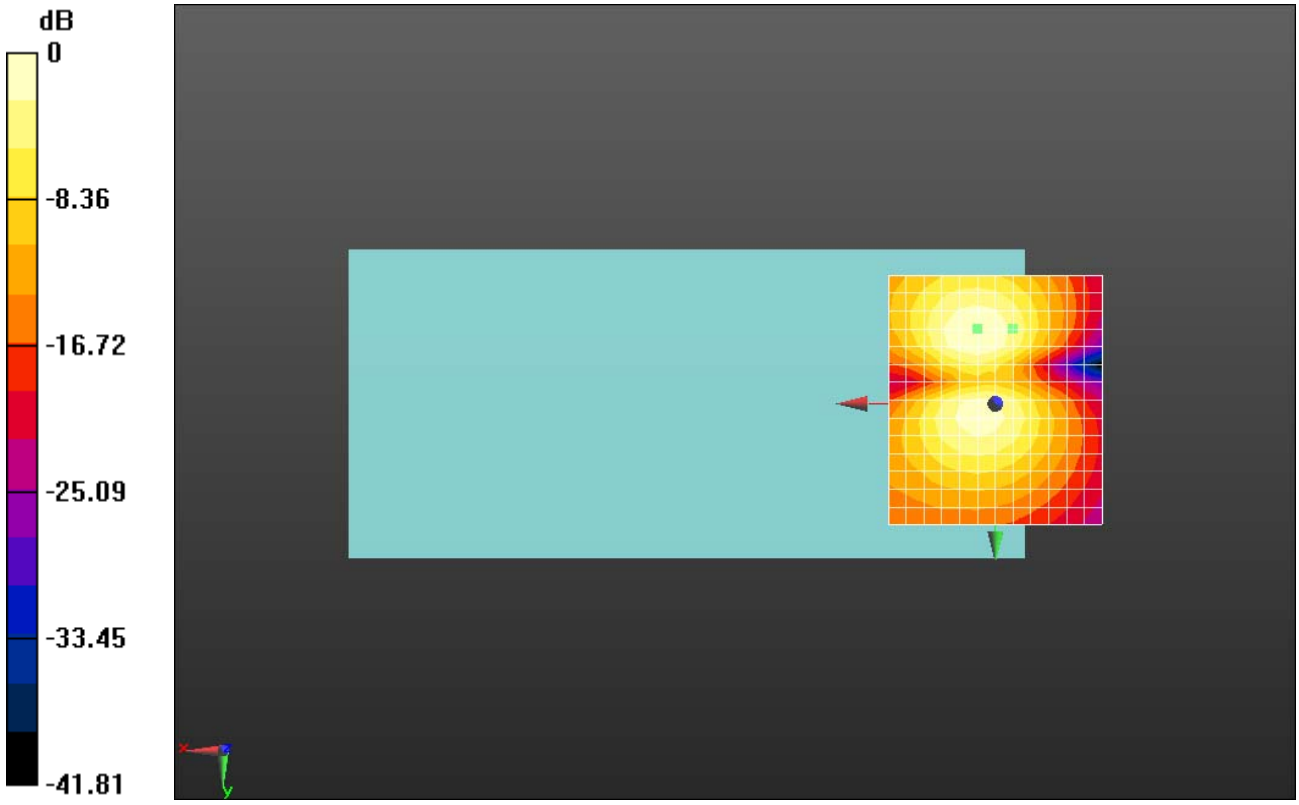
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT40 MCS0_AMR 12.20Kbps_Ch46_Y

Communication System: UID 10401 - AAA, IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle); Frequency: 5230 MHz;Duty Cycle: 1:7.24436
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch46/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.86 dB
ABM1 comp = -12.14 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 43.96 = 32.86 dB

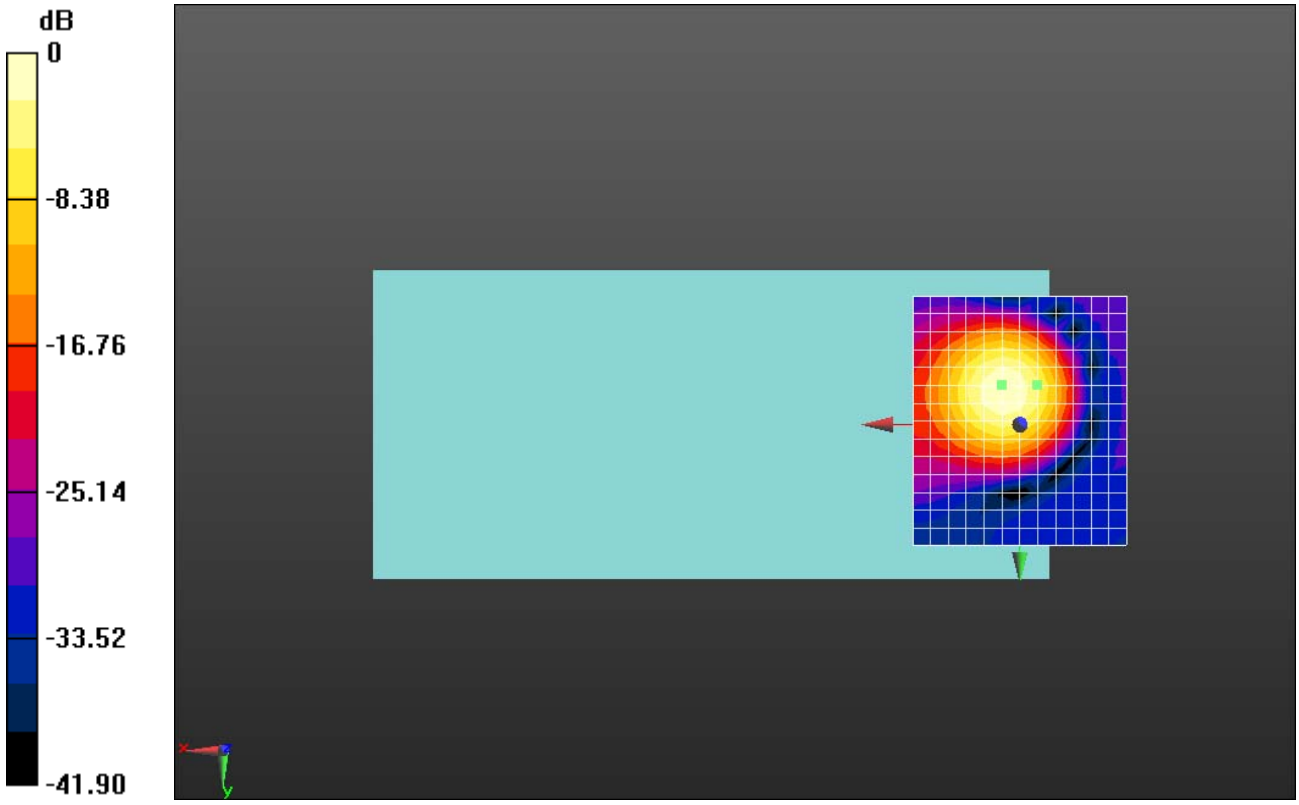
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT80 MCS0_AMR 12.20Kbps_Ch42_Z

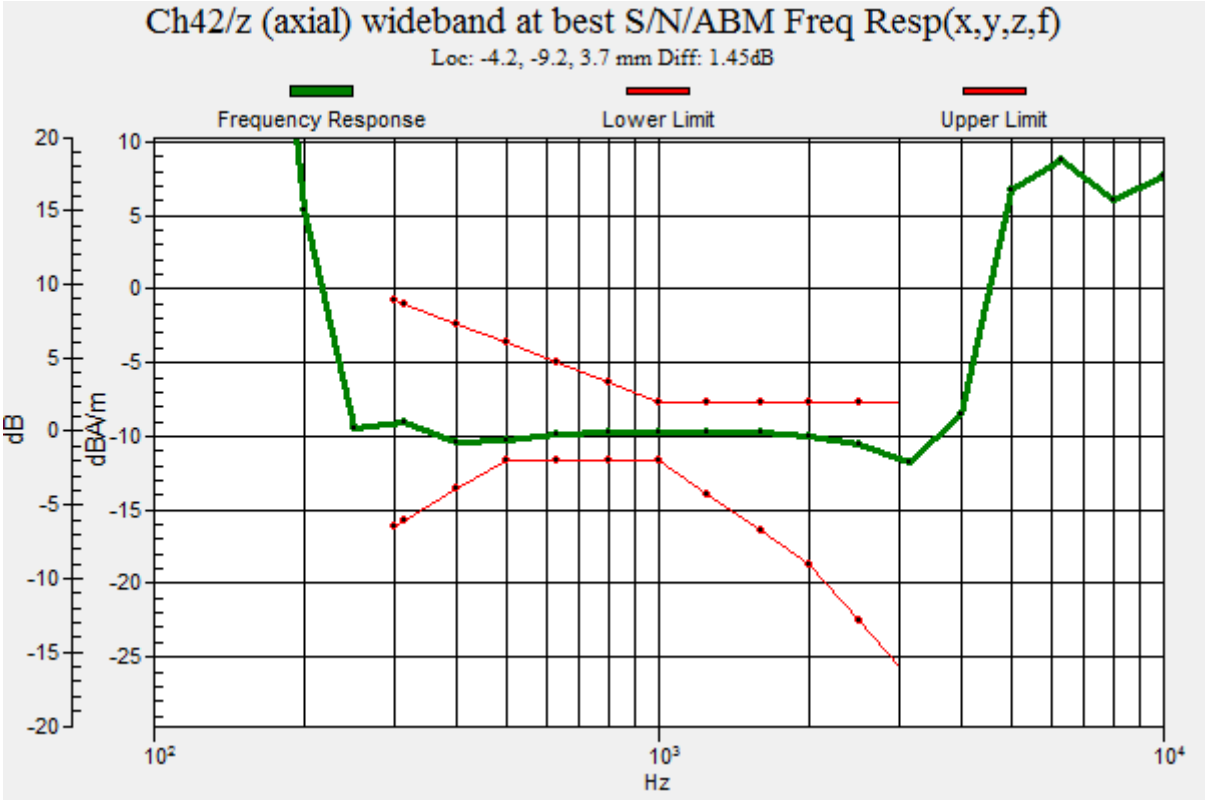
Communication System: UID 10402 - AAA, IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle); Frequency: 5210 MHz;Duty Cycle: 1:7.12853
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch42/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.26 dB
ABM1 comp = -8.60 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -9.2, 3.7 mm



0 dB = 41.04 = 32.26 dB


Ch42/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -9.2, 3.7 mm Diff: 1.45dB
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

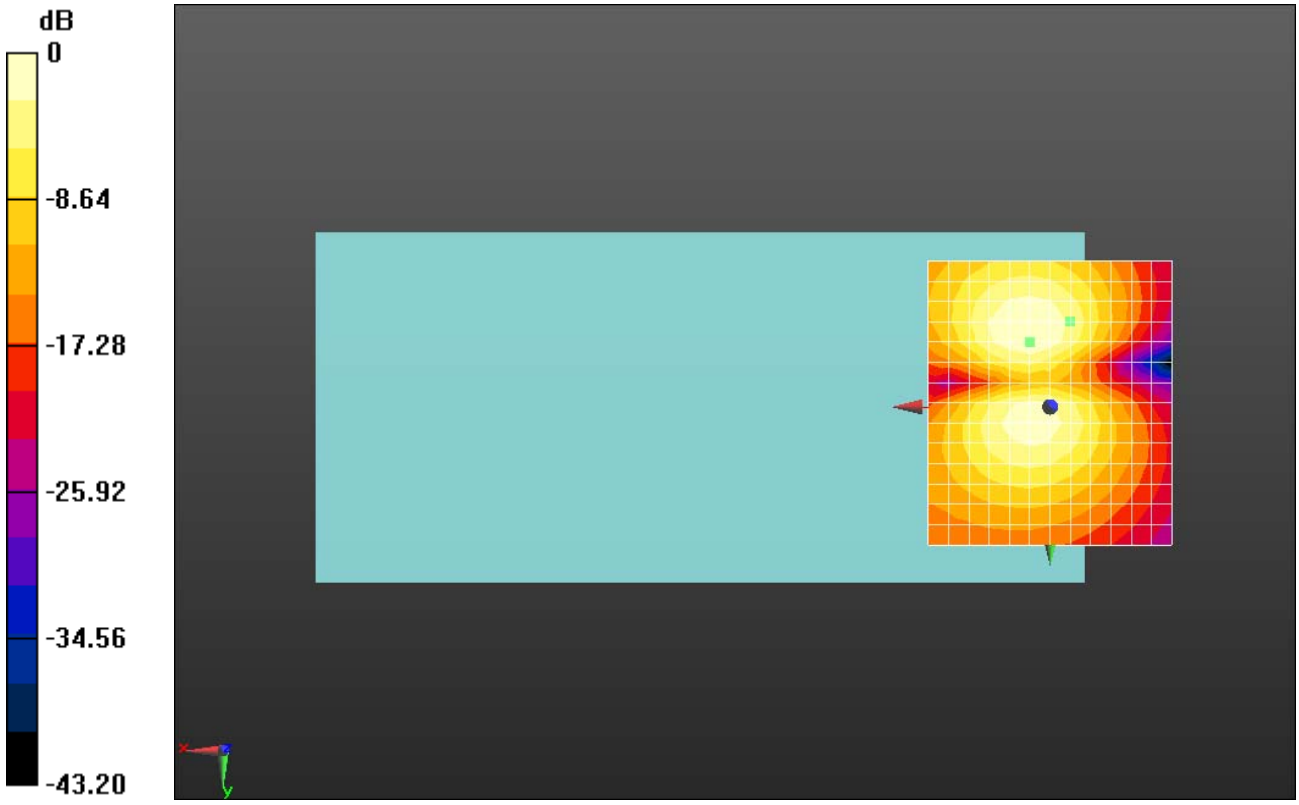
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.05.19

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT80 MCS0_AMR 12.20Kbps_Ch42_Y

Communication System: UID 10402 - AAA, IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle); Frequency: 5210 MHz;Duty Cycle: 1:7.12853
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 3128; ; Calibrated: 2022.07.19
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2022.06.22
- 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)

Ch42/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 32.65 dB
ABM1 comp = -14.43 dBA/m
BWC Factor = 0.17 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 42.91 = 32.65 dB