Annex C Plots of T-Coil Test Results

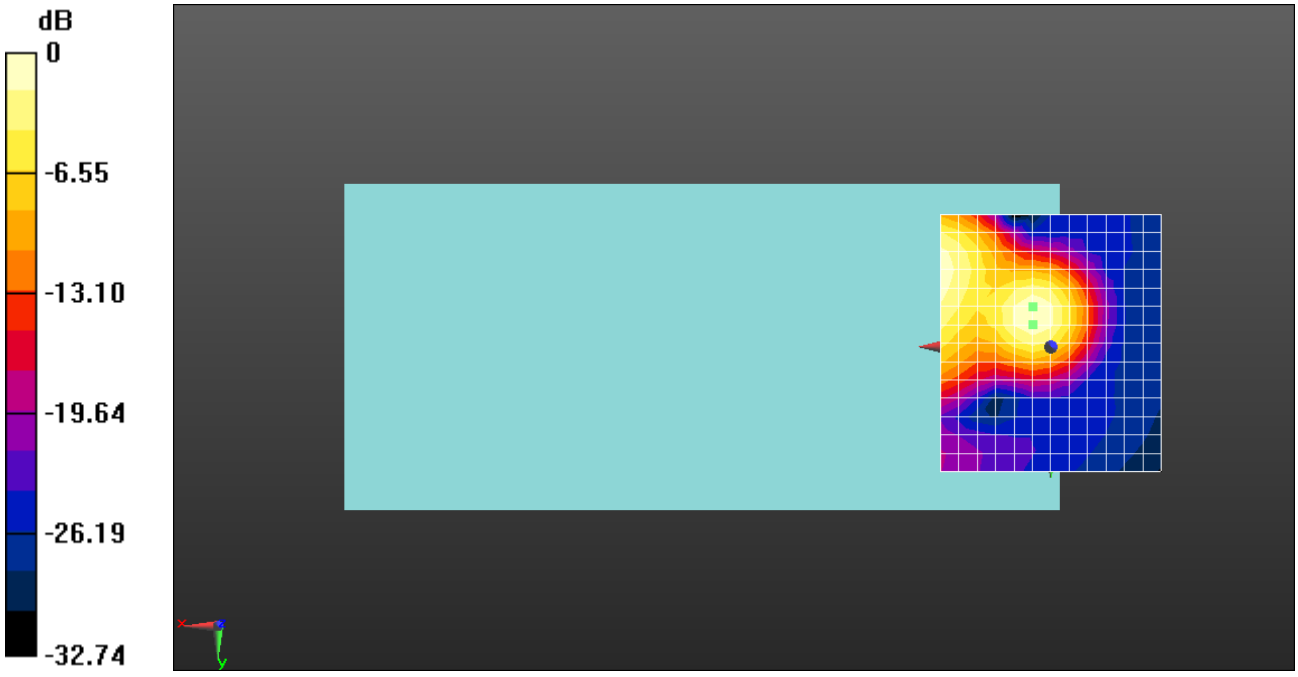
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.13

HAC_T-Coil_GSM850_GSM Voice_Ch189_Z

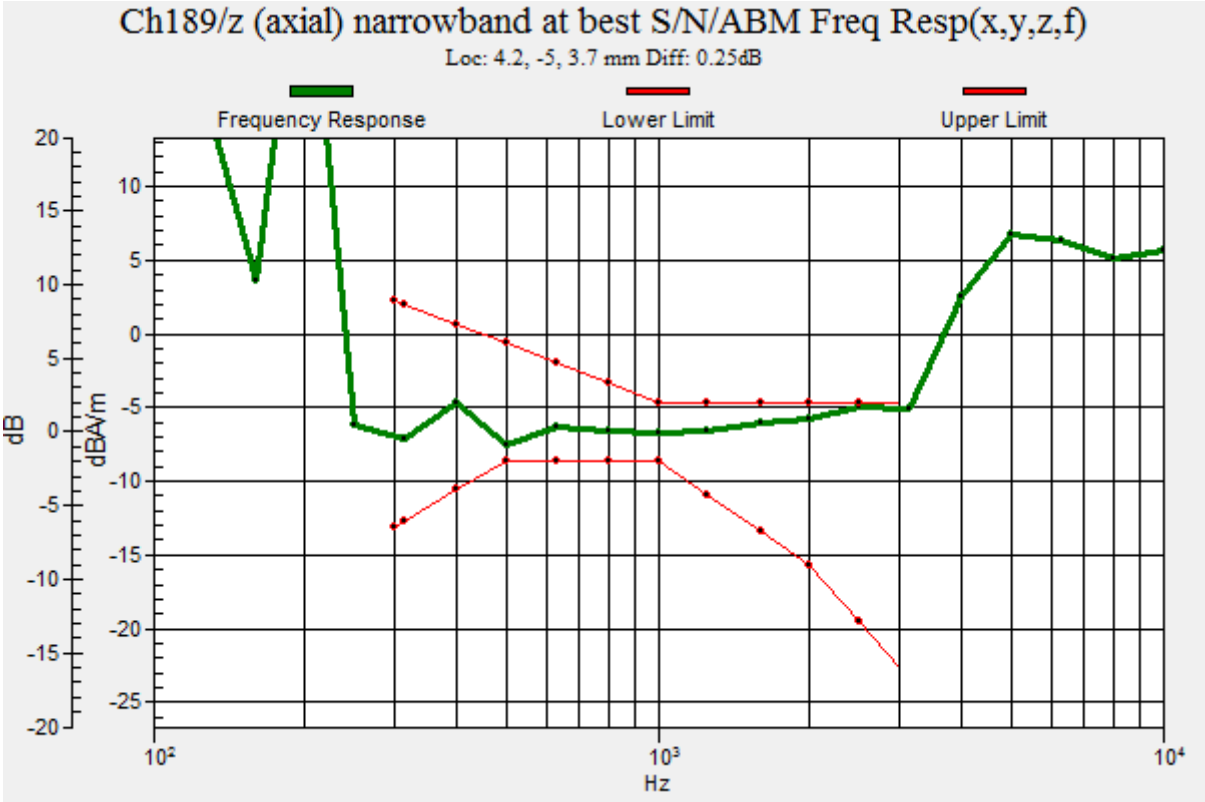
Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

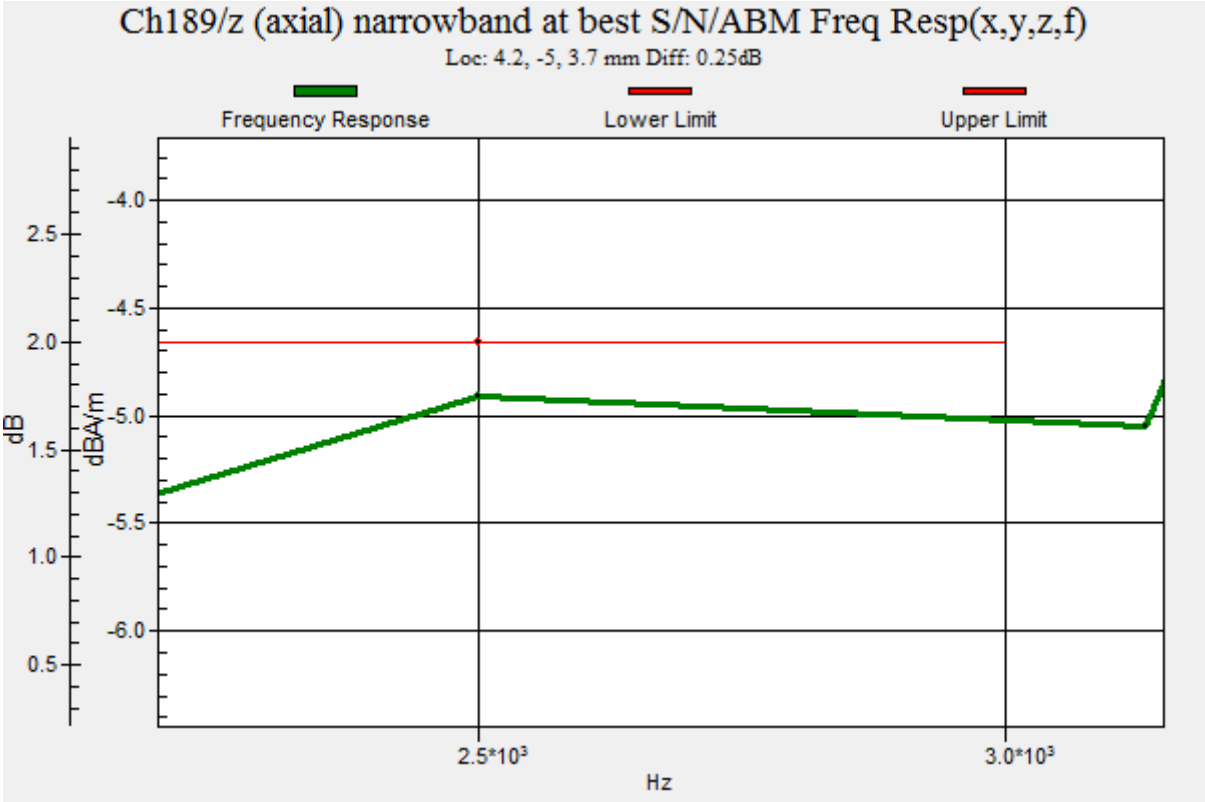
DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch189/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 21.99 dB
ABM1 comp = -2.90 dBA/m
BWC Factor = 0.16 dB
Location: 4.2, -5, 3.7 mm



0 dB = 12.58 = 21.99 dB


Ch189/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.2, -5, 3.7 mm Diff: 0.25dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴


Ch189/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.2, -5, 3.7 mm Diff: 0.25dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
2.5*10³
3.0*10³

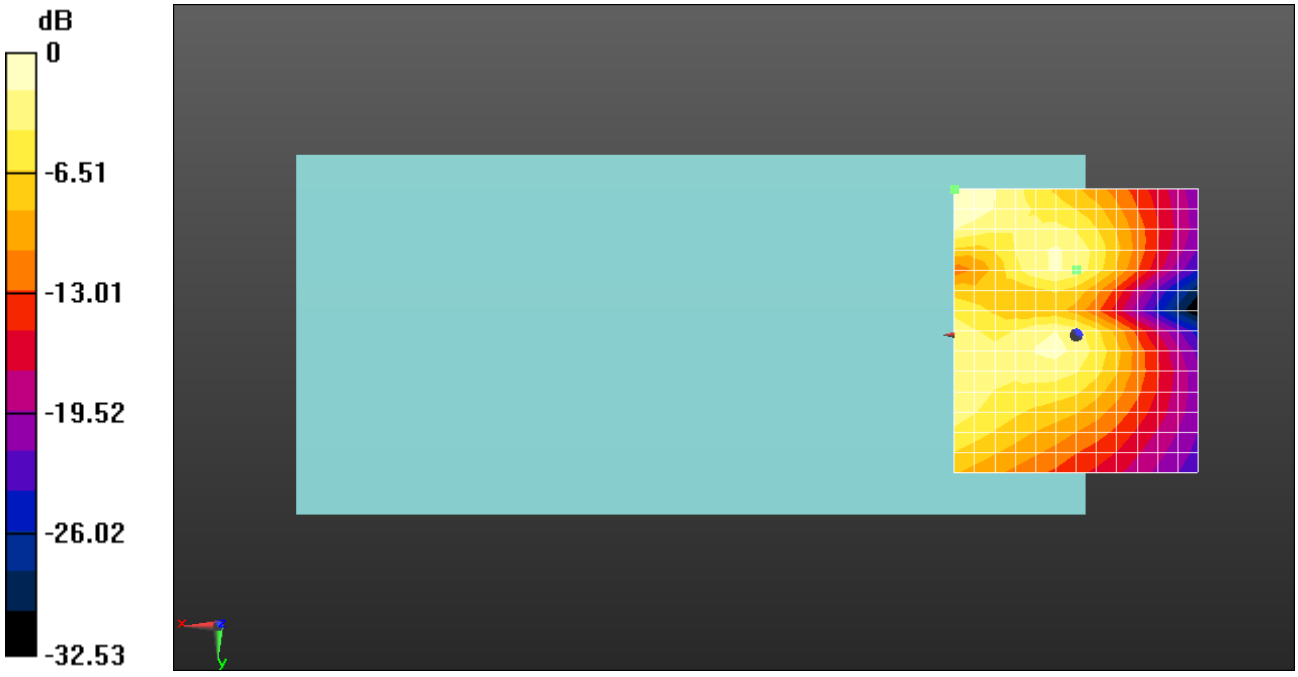
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.13

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch189/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 24.61 dB
ABM1 comp = -11.42 dBA/m
BWC Factor = 0.16 dB
Location: 0, -13.3, 3.7 mm



0 dB = 16.99 = 24.60 dB

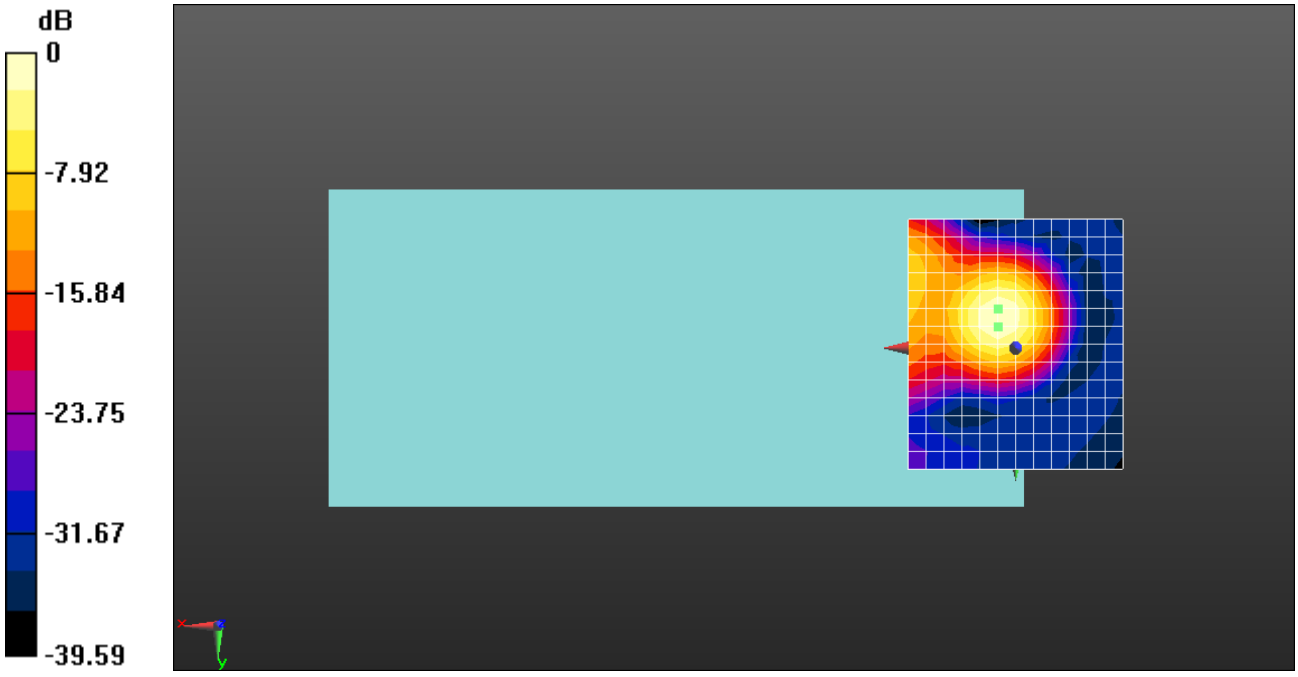
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.13

HAC_T-Coil_GSM1900_GSM Voice_Ch661_Z

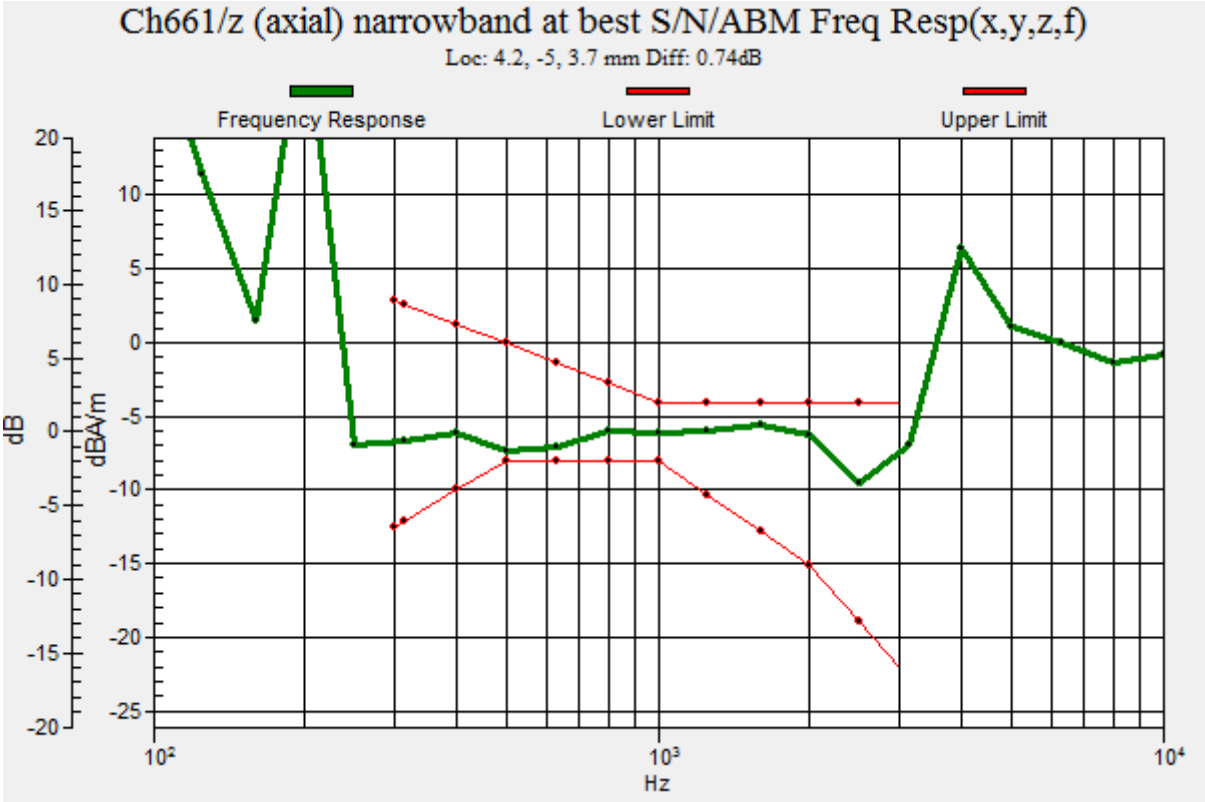
Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch661/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 28.26 dB
ABM1 comp = -3.29 dBA/m
BWC Factor = 0.16 dB
Location: 4.2, -5, 3.7 mm



0 dB = 25.89 = 28.26 dB


Ch661/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.2, -5, 3.7 mm Diff: 0.74dB
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

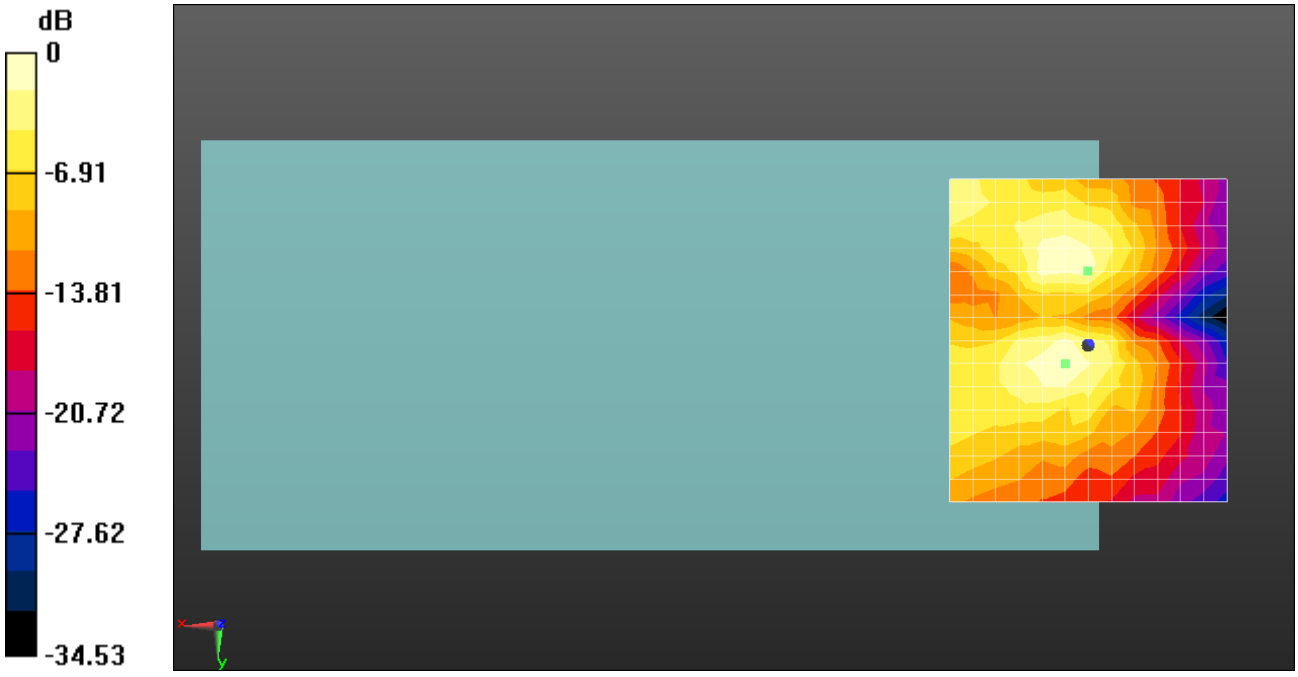
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.13

HAC_T-Coil_GSM850_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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch661/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 24.39 dB
ABM1 comp = -12.44 dBA/m
BWC Factor = 0.16 dB
Location: 0, -13.3, 3.7 mm



0 dB = 16.58 = 24.39 dB

HAC_T-Coil_WCDMA Band II_AMR 12.12Kbps_Ch9400_Z

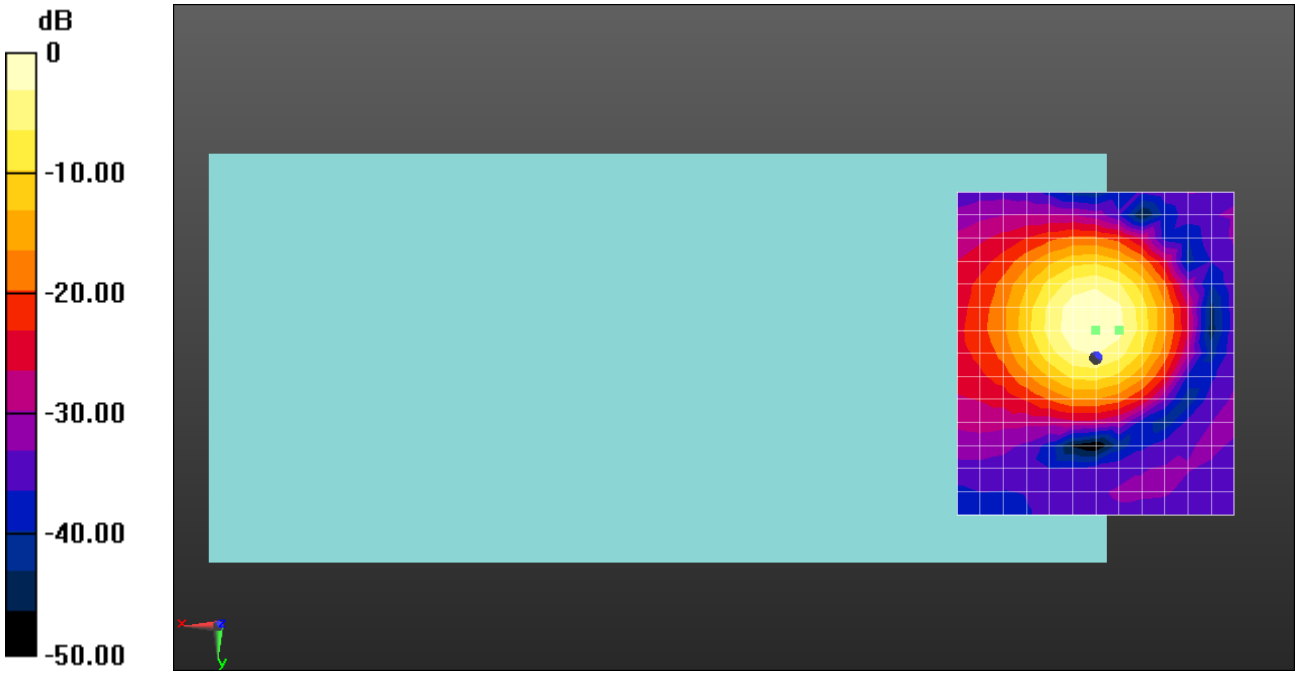
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1880 MHz;Duty Cycle: 1:1.95434

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

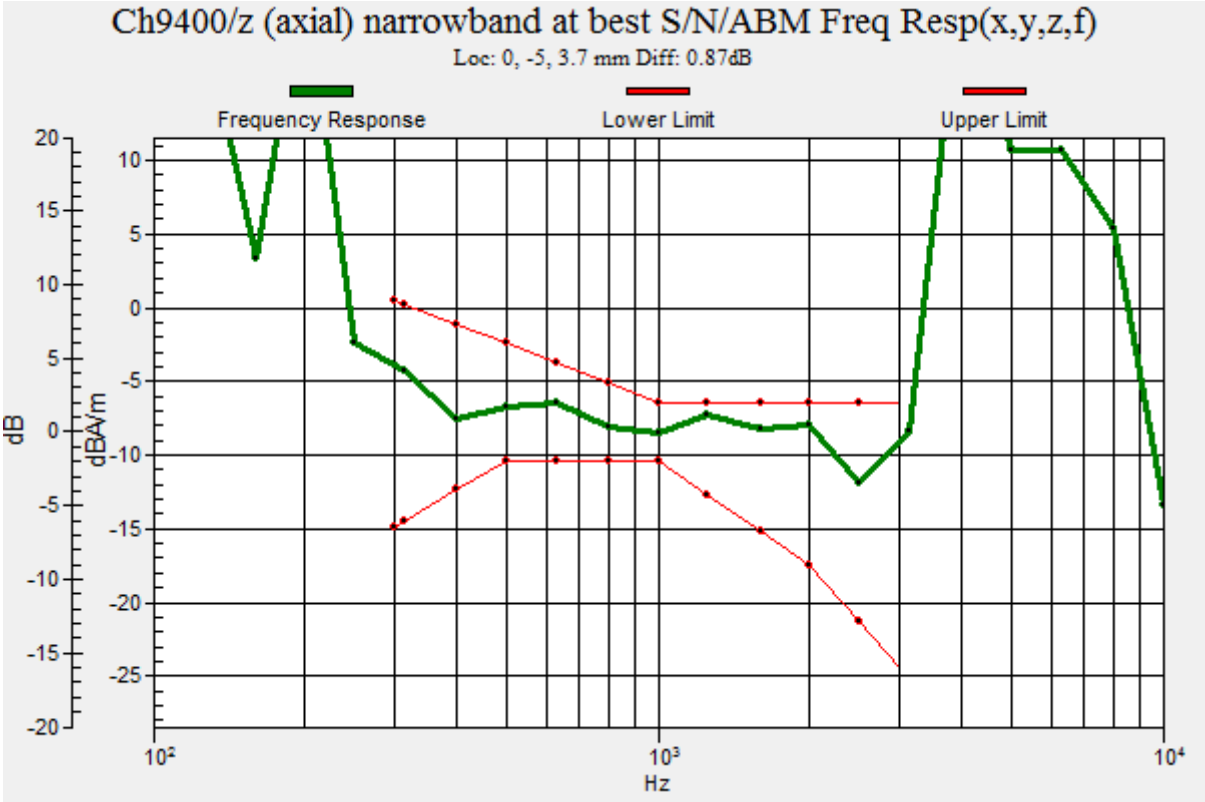
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1643; Calibrated: 2023.2.22
- 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)

Ch9400/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 46.93 dB
ABM1 comp = -4.92 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -5, 3.7 mm



0 dB = 222.2 = 46.93 dB


Ch9400/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 0.87dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴

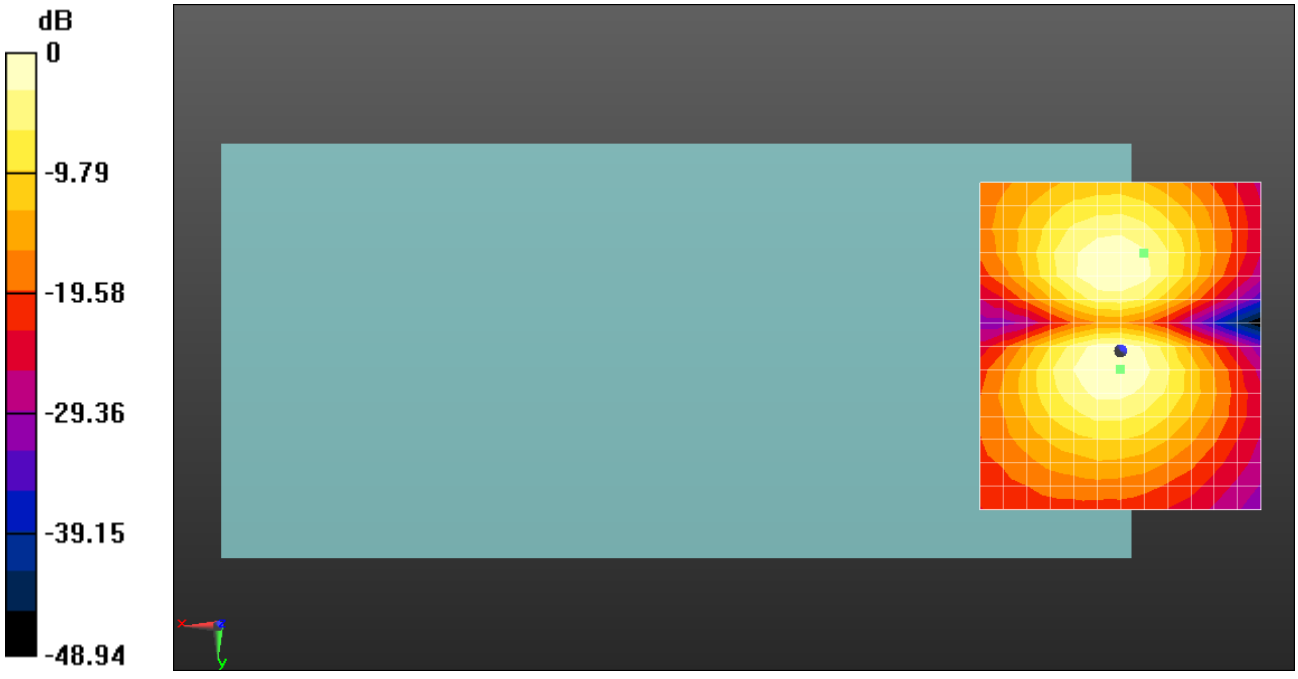
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.6

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1643; Calibrated: 2023.2.22
- 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)

Ch9400/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 39.31 dB
ABM1 comp = -12.52 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 92.39 = 39.31 dB

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.6

HAC_T-Coil_WCDMA Band IV_AMR 12.12Kbps_Ch1413_Z

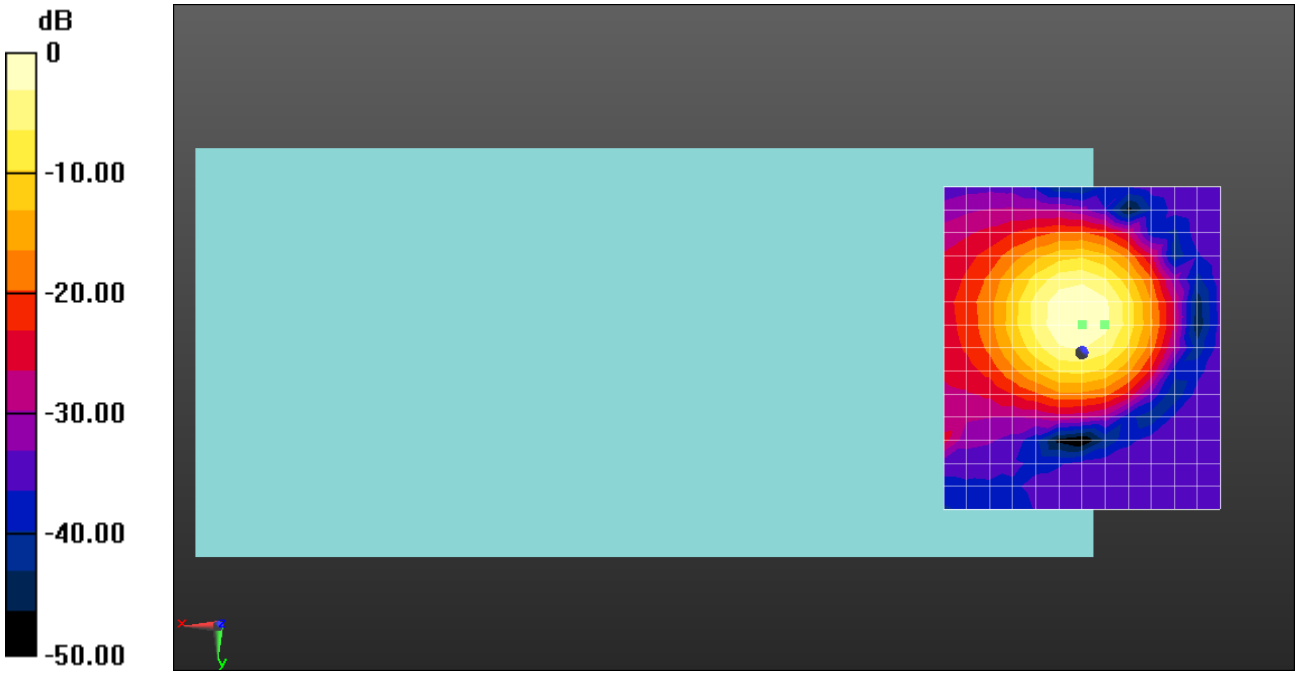
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.4 MHz;Duty Cycle: 1:1.95434

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

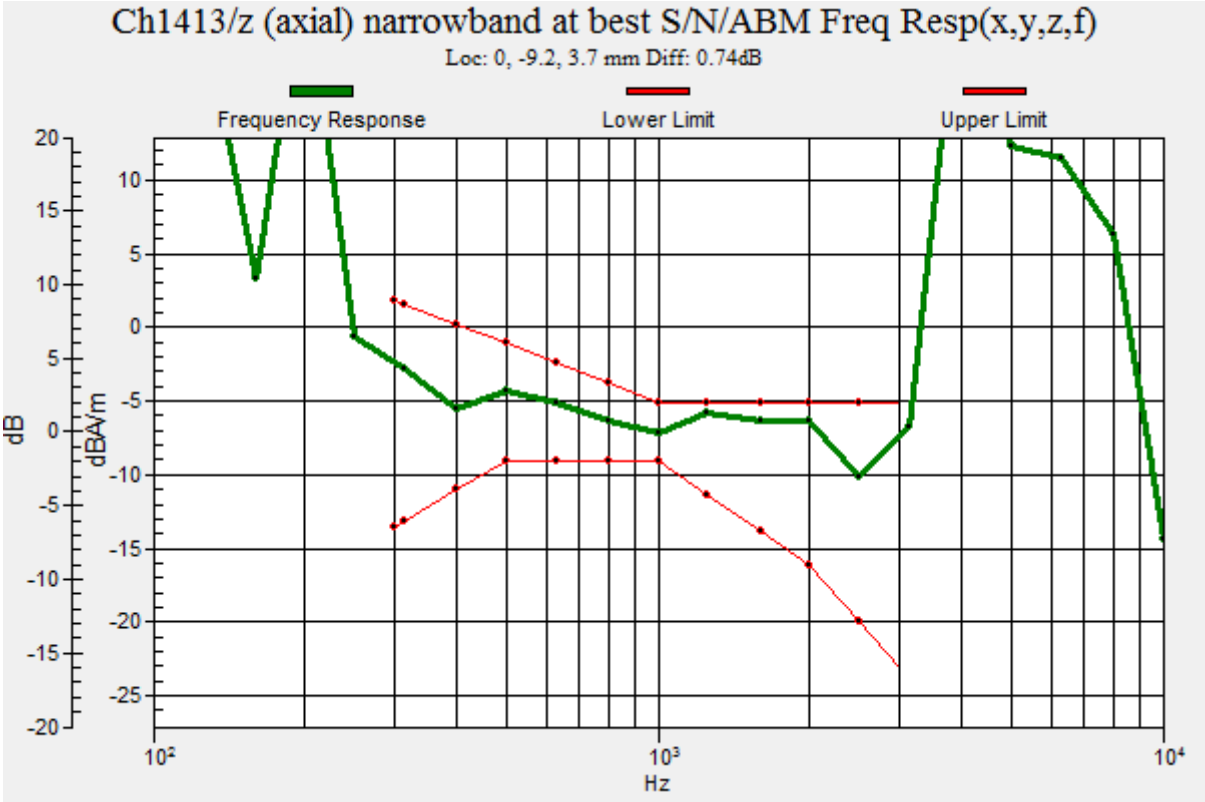
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1643; Calibrated: 2023.2.22
- 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)

Ch1413/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 46.16 dB
ABM1 comp = -5.12 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -5, 3.7 mm



0 dB = 203.4 = 46.17 dB


Ch1413/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.74dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.6

HAC_T-Coil_WCDMA Band IV_AMR 12.12Kbps_Ch1413_Y

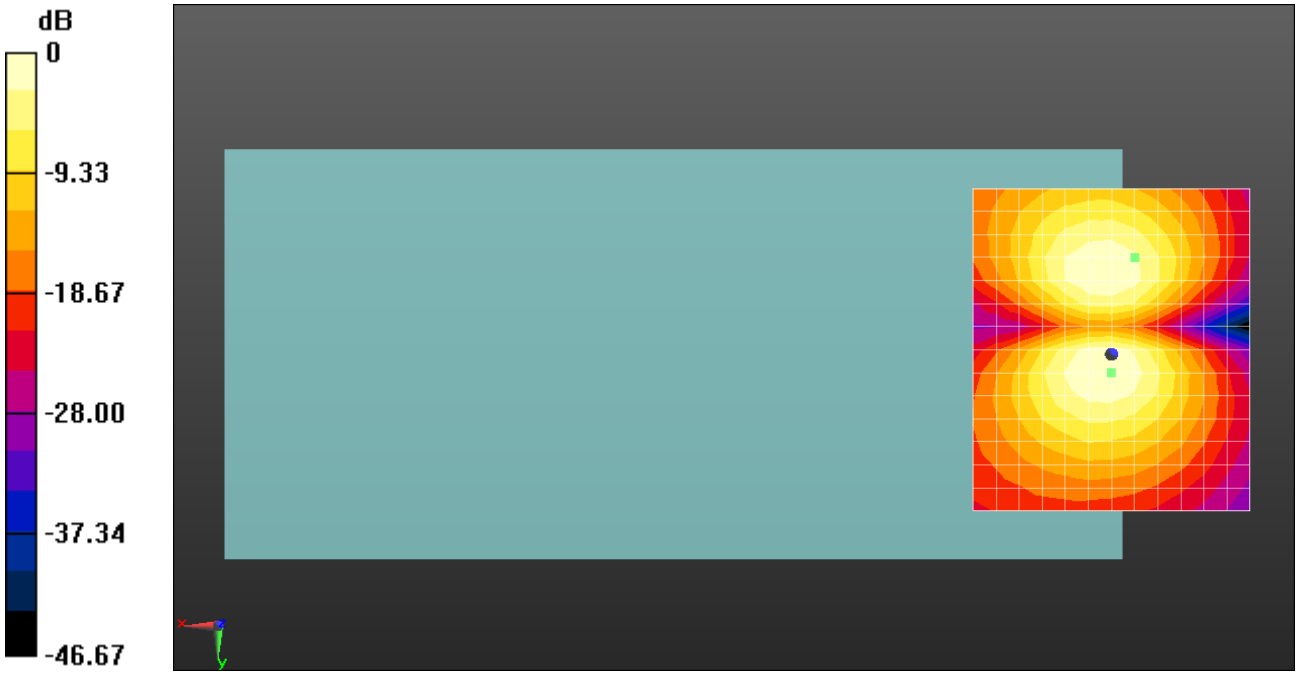
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 1732.4 MHz;Duty Cycle: 1:1.95434

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1643; Calibrated: 2023.2.22
- 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)

Ch1413/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 39.59 dB
ABM1 comp = -12.54 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 95.36 = 39.59 dB

HAC_T-Coil_WCDMA Band V_AMR 12.12Kbps_Ch4182_Z

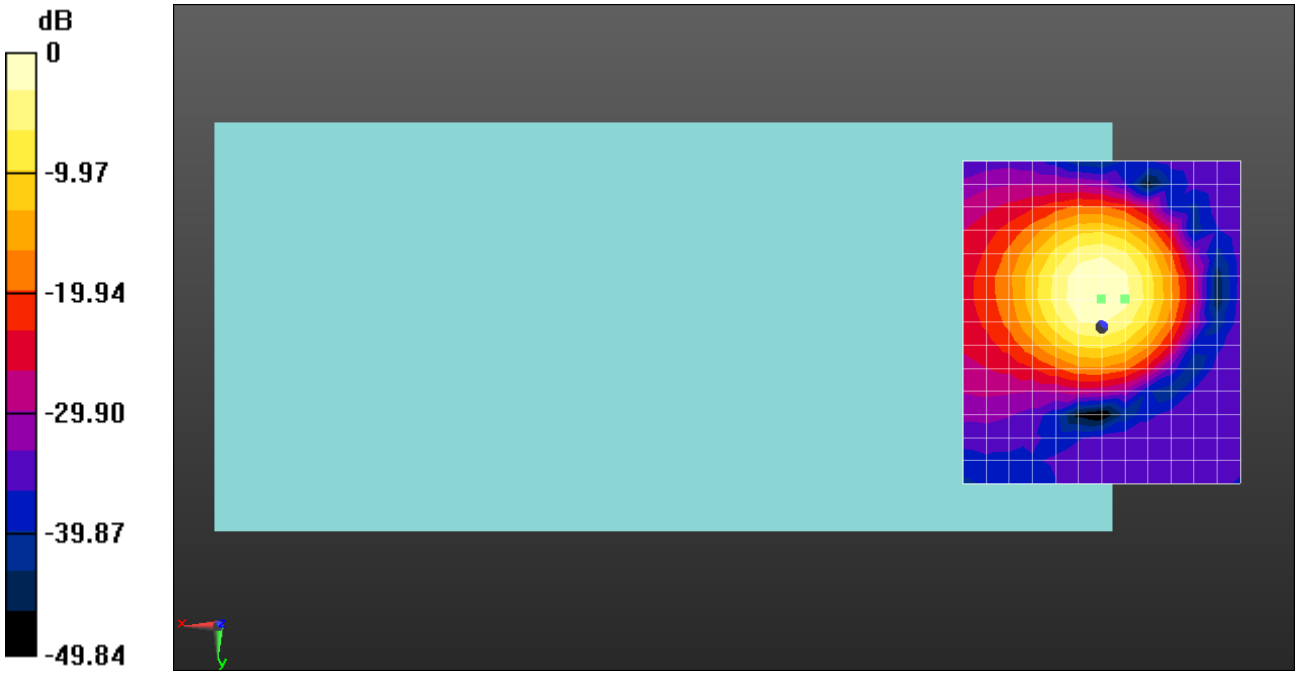
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz;Duty Cycle: 1:1.95434

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

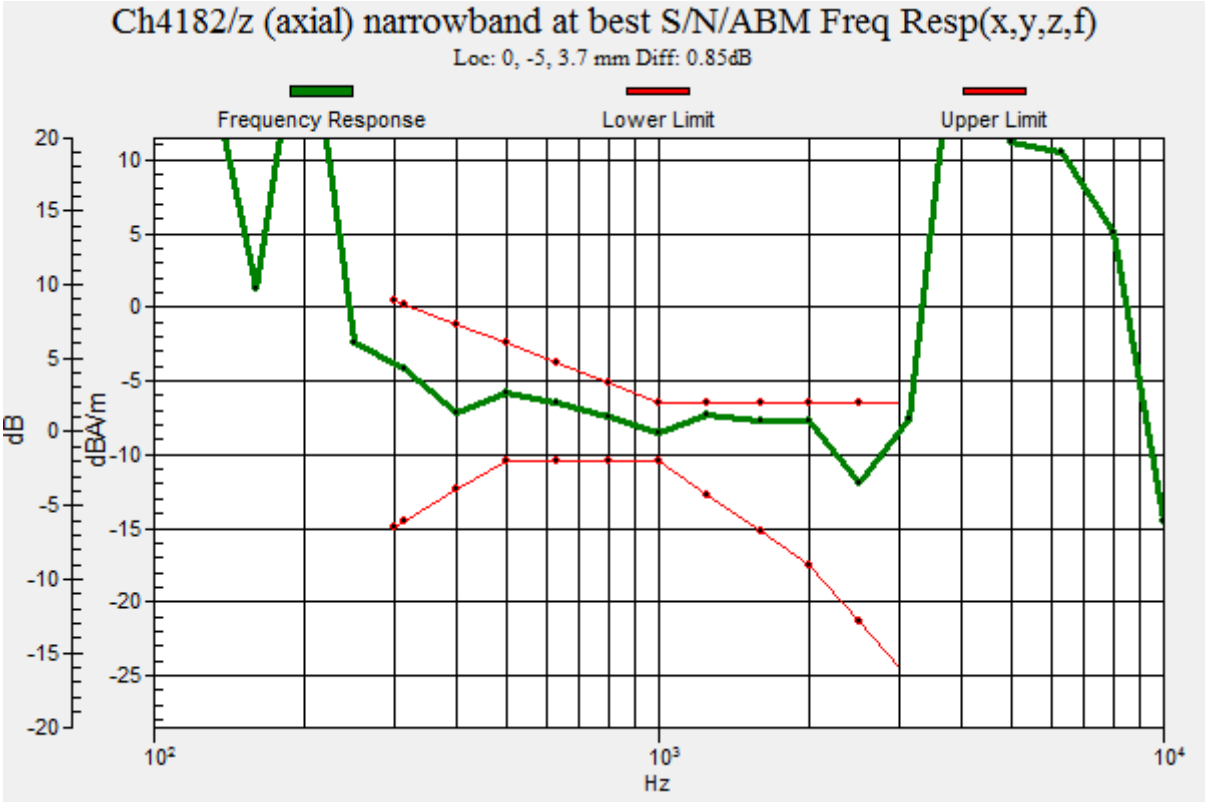
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1643; Calibrated: 2023.2.22
- 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)

Ch4182/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 46.33 dB
ABM1 comp = -5.09 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -5, 3.7 mm



0 dB = 207.3 = 46.33 dB


Ch4182/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 0.85dB
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: 2023.11.6

HAC_T-Coil_WCDMA Band V_AMR 12.12Kbps_Ch4182_Y

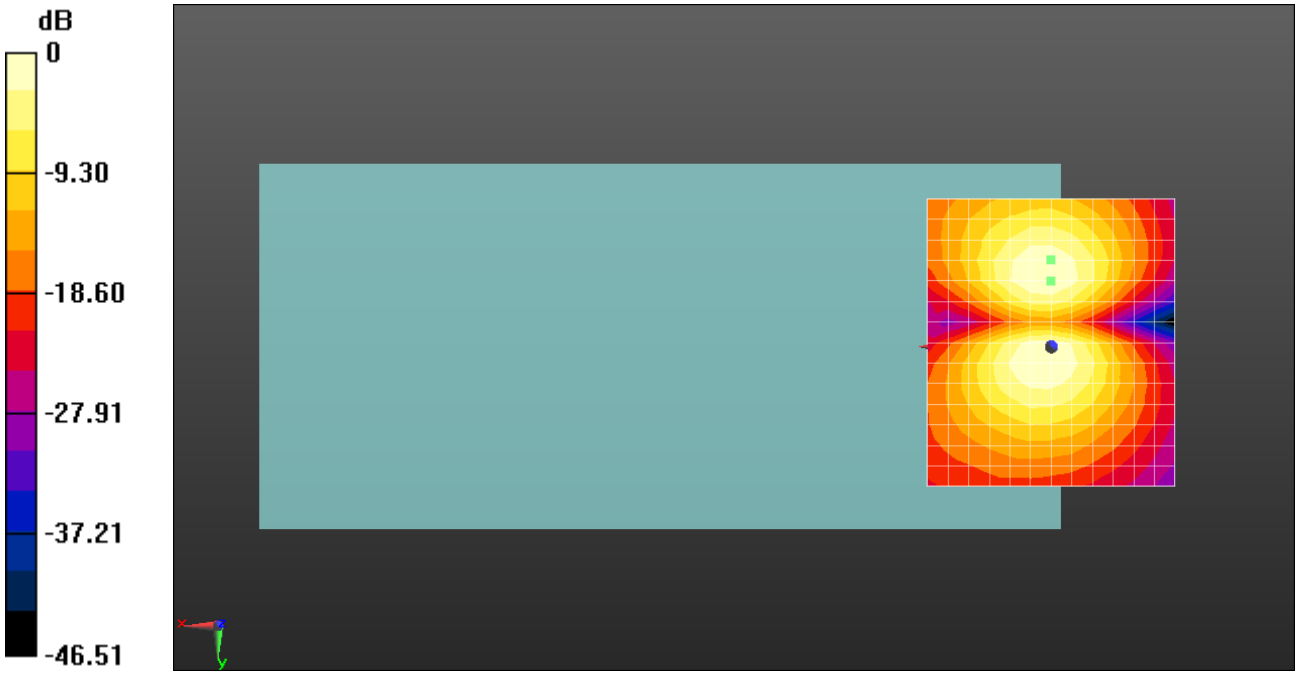
Communication System: UID 10011 - CAB, UMTS-FDD (WCDMA); Frequency: 836.4 MHz;Duty Cycle: 1:1.95434

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1643; Calibrated: 2023.2.22
- 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)

Ch4182/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 40.00 dB
ABM1 comp = -10.86 dBA/m
BWC Factor = 0.16 dB
Location: 0, -17.5, 3.7 mm



0 dB = 99.98 = 40.00 dB

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.14

HAC_T-Coil_LTE Band 2_20M_QPSK_1RB_0offset_12.2Kbps_Ch18900_Z

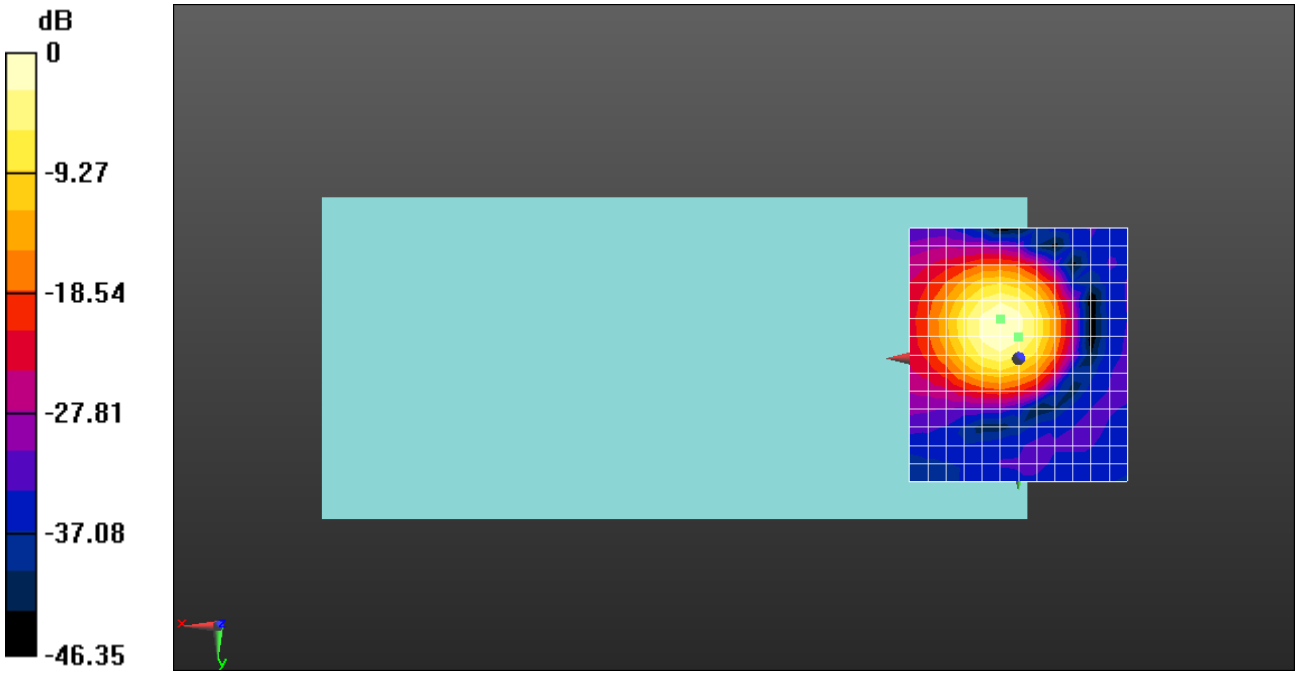
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz;Duty Cycle: 1:3.74111

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

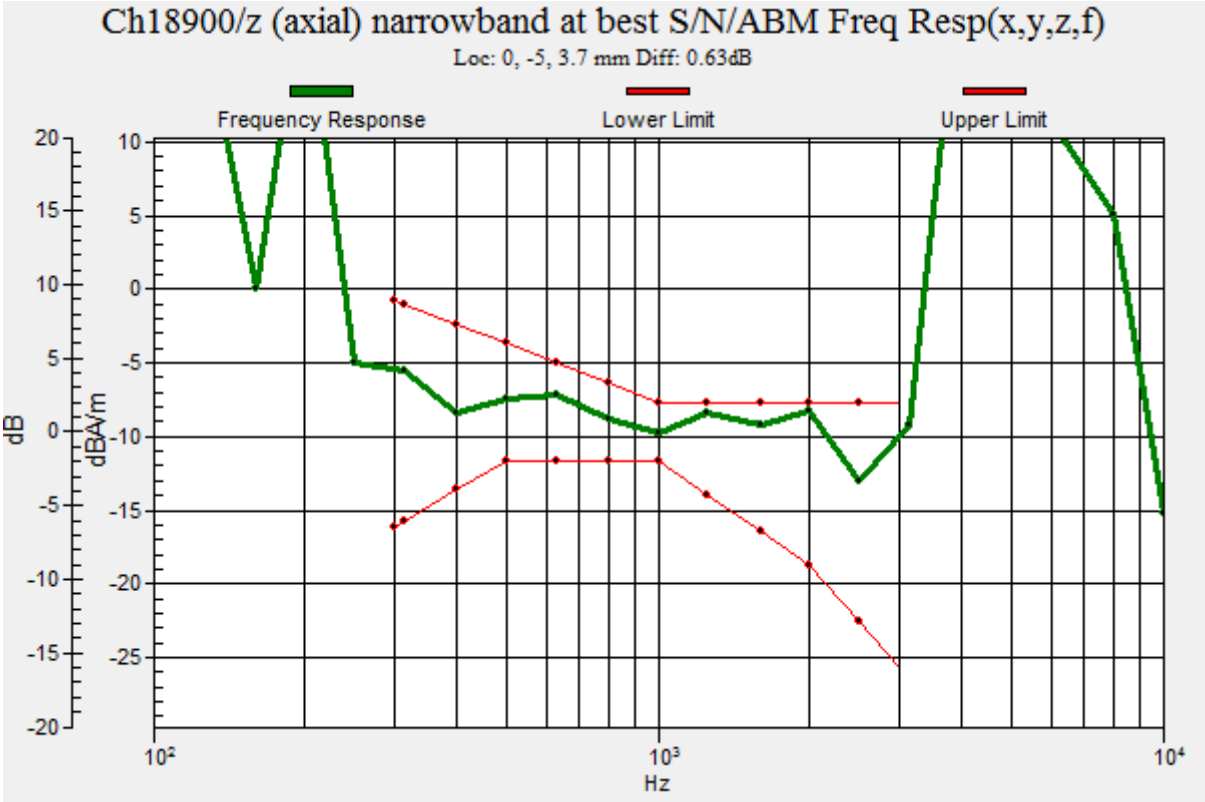
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch18900/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 37.34 dB
ABM1 comp = -5.72 dBA/m
BWC Factor = 0.16 dB
Location: 0, -5, 3.7 mm



0 dB = 73.66 = 37.34 dB


Ch18900/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 0.63dB
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

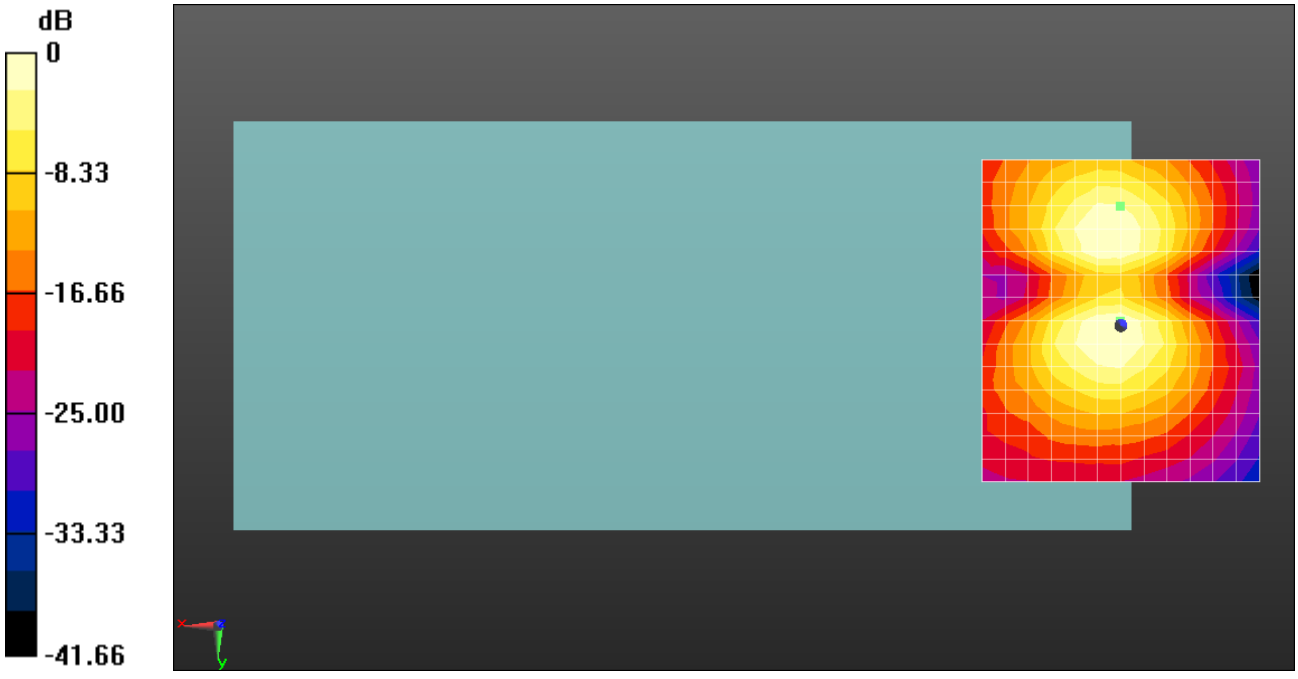
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.14

HAC_T-Coil_LTE Band 2_20M_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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch18900/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 34.06 dB
ABM1 comp = -13.97 dBA/m
BWC Factor = 0.16 dB
Location: 0, -21.7, 3.7 mm



0 dB = 50.45 = 34.06 dB

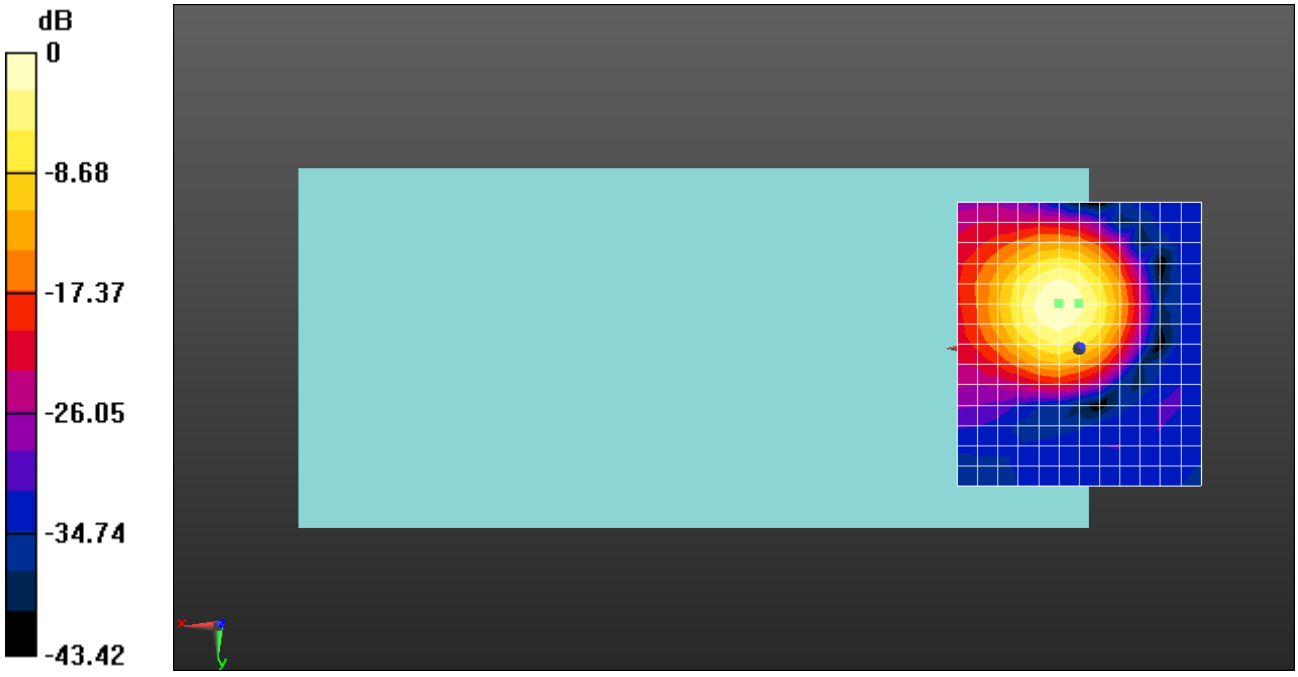
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.14

HAC_T-Coil_LTE Band 4_20M_QPSK_1RB_0offset_12.2Kbps_Ch20175_Z

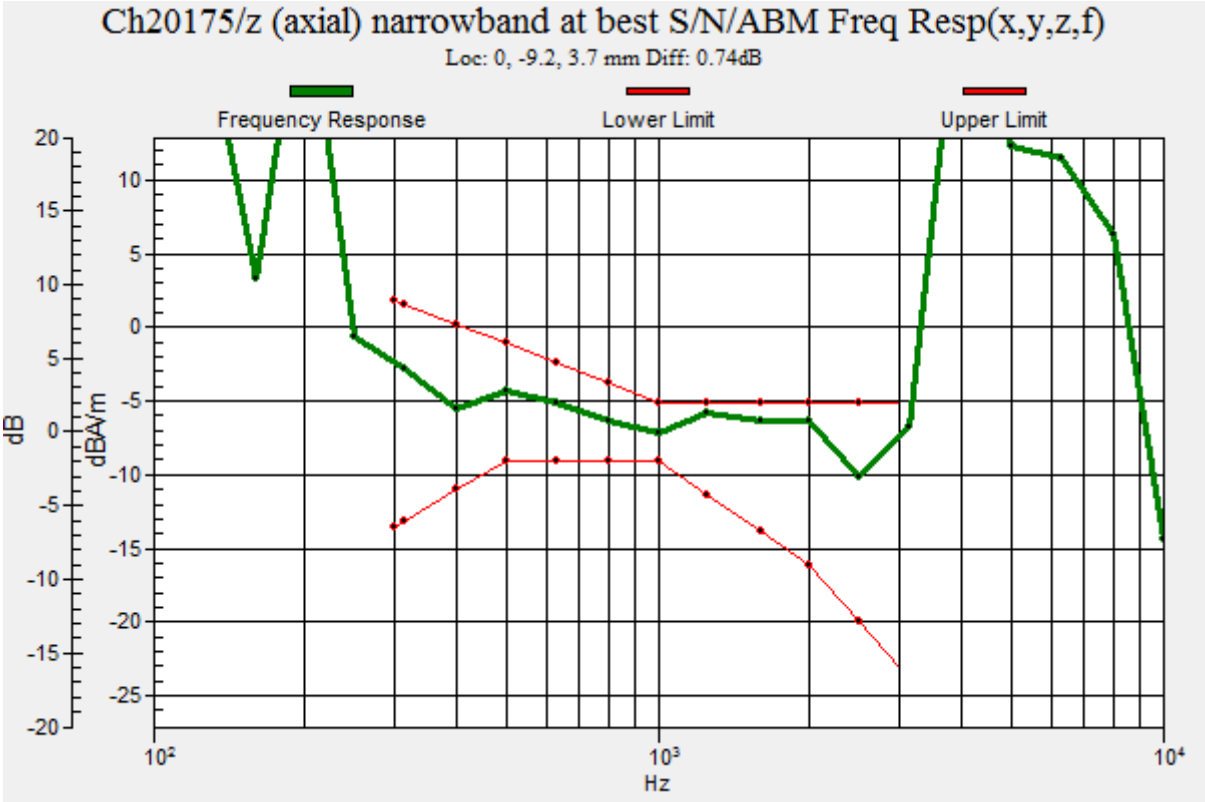
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1732.5 MHz;Duty Cycle: 1:3.74111
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch20175/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 37.16 dB
ABM1 comp = -5.64 dBA/m
BWC Factor = 0.16 dB
Location: 0, -9.2, 3.7 mm



0 dB = 72.15 = 37.16 dB


Ch20175/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.74dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴

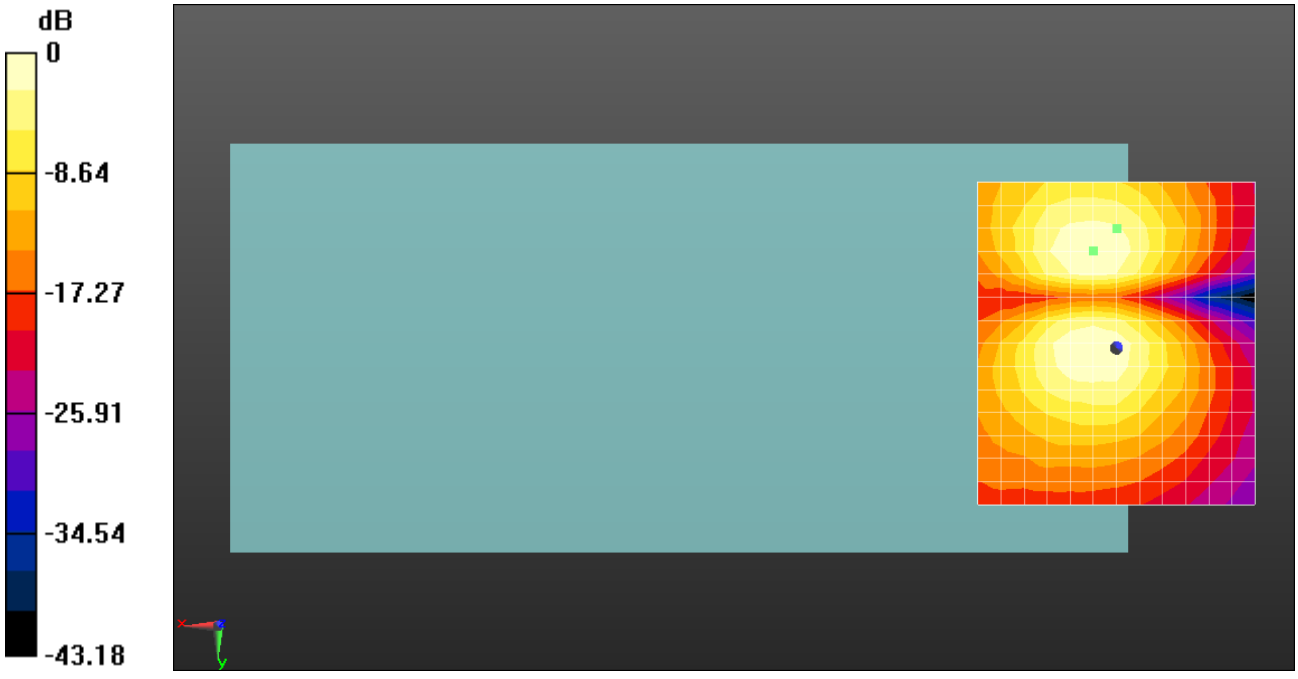
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.14

HAC_T-Coil_LTE Band 4_20M_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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch20175/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.31 dB
ABM1 comp = -14.14 dBA/m
BWC Factor = 0.16 dB
Location: 0, -21.7, 3.7 mm



0 dB = 58.26 = 35.31 dB

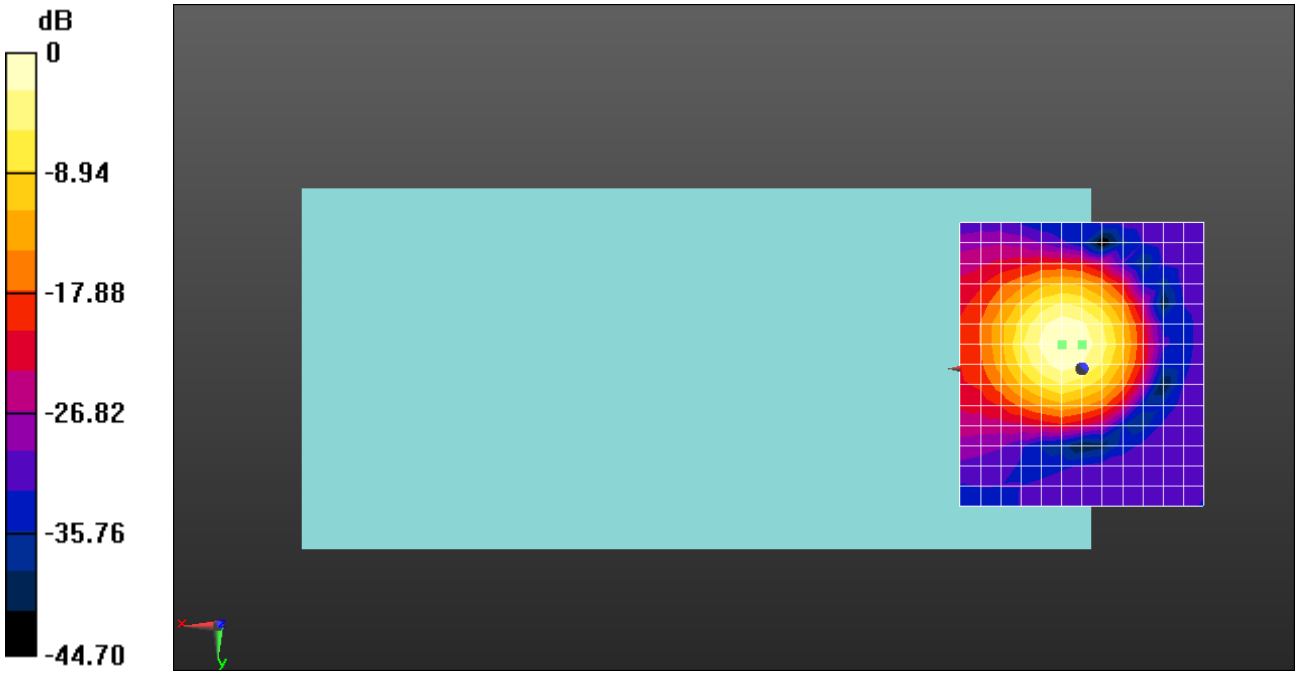
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 5_10M_QPSK_1RB_0offset_12.2Kbps_Ch20525_Z

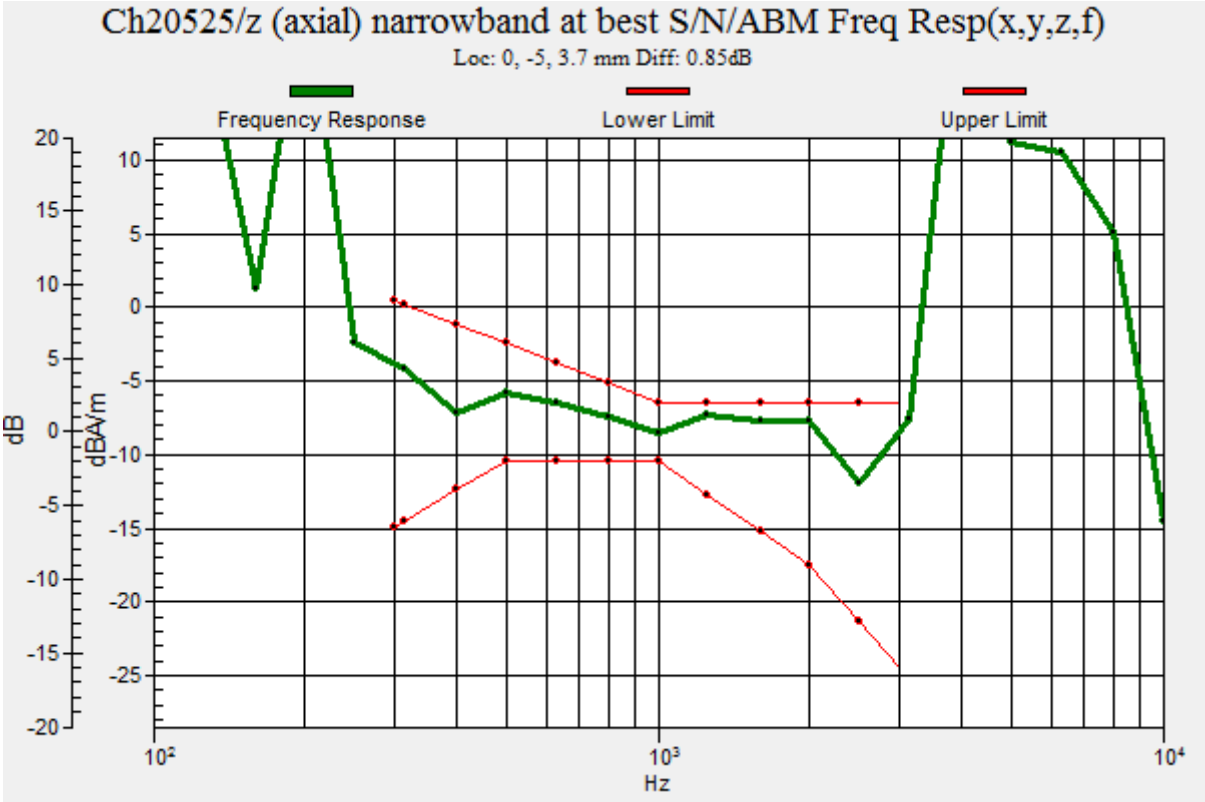
Communication System: UID 10108 - CAB, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK);
Frequency: 836.5 MHz;Duty Cycle: 1:3.80189
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch20525/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 38.00 dB
ABM1 comp = -4.91 dBA/m
BWC Factor = 0.16 dB
Location: 0, -5, 3.7 mm



0 dB = 79.48 = 38.01 dB


Ch20525/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 0.85dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴

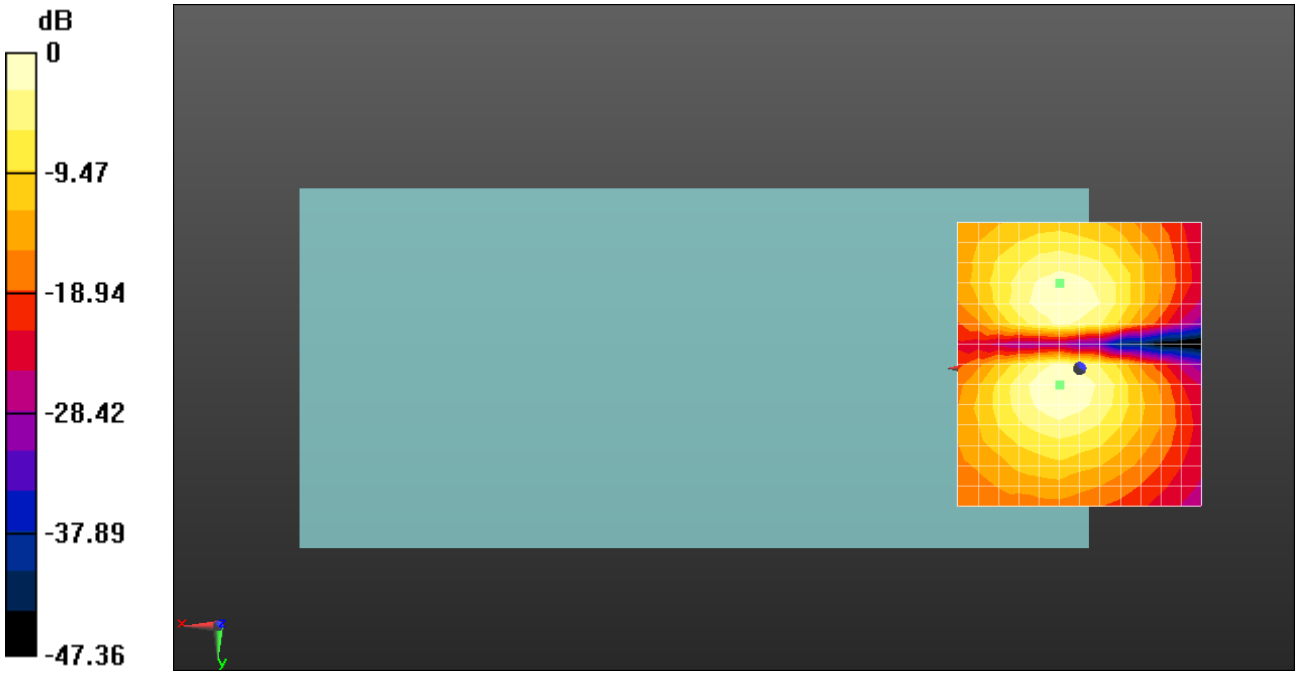
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 5_10M_QPSK_1RB_0offset_12.2Kbps_Ch20525_Y

Communication System: UID 10108 - CAB, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK);
Frequency: 836.5 MHz;Duty Cycle: 1:3.80189
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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch20525/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid:
dx=10mm, dy=10mm
ABM1/ABM2 = 35.37 dB
ABM1 comp = -12.48 dBA/m
BWC Factor = 0.16 dB
Location: 4.2, -17.5, 3.7 mm



0 dB = 58.69 = 35.37 dB

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 12_10M_QPSK_1RB_0offset_12.2Kbps_Ch23095_Z

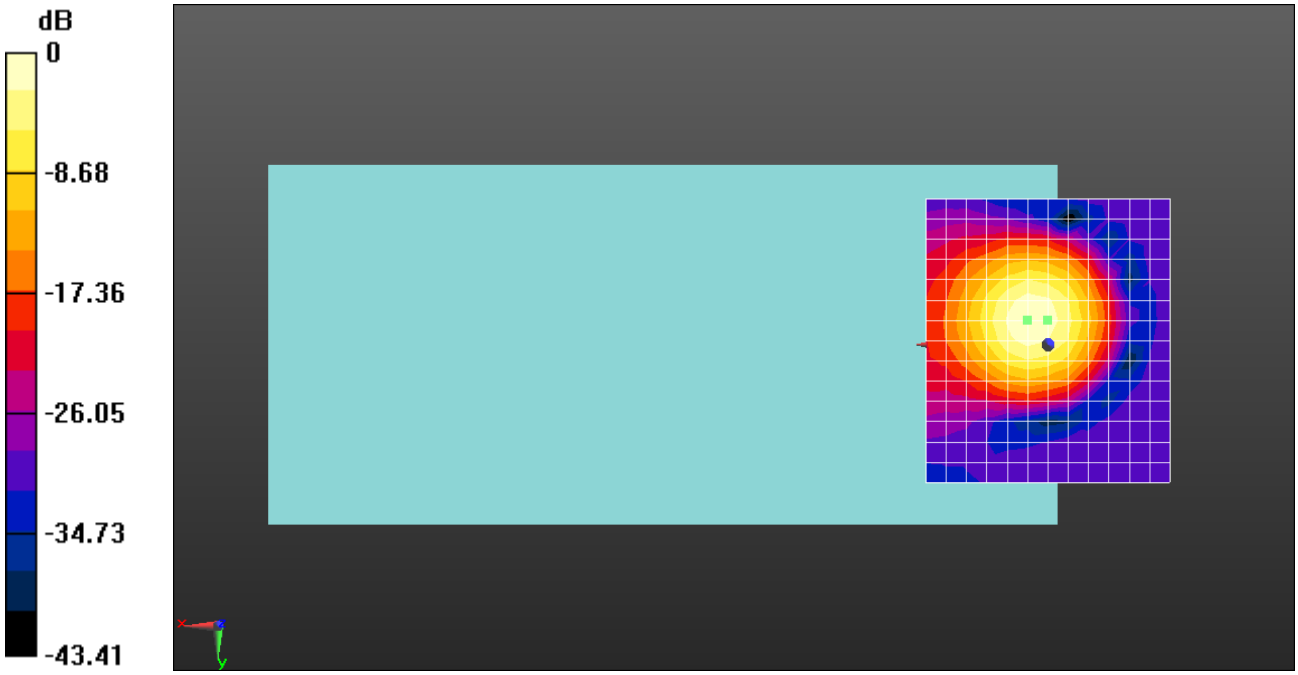
Communication System: UID 10175 - CAB, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 707.5 MHz;Duty Cycle: 1:3.7325

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

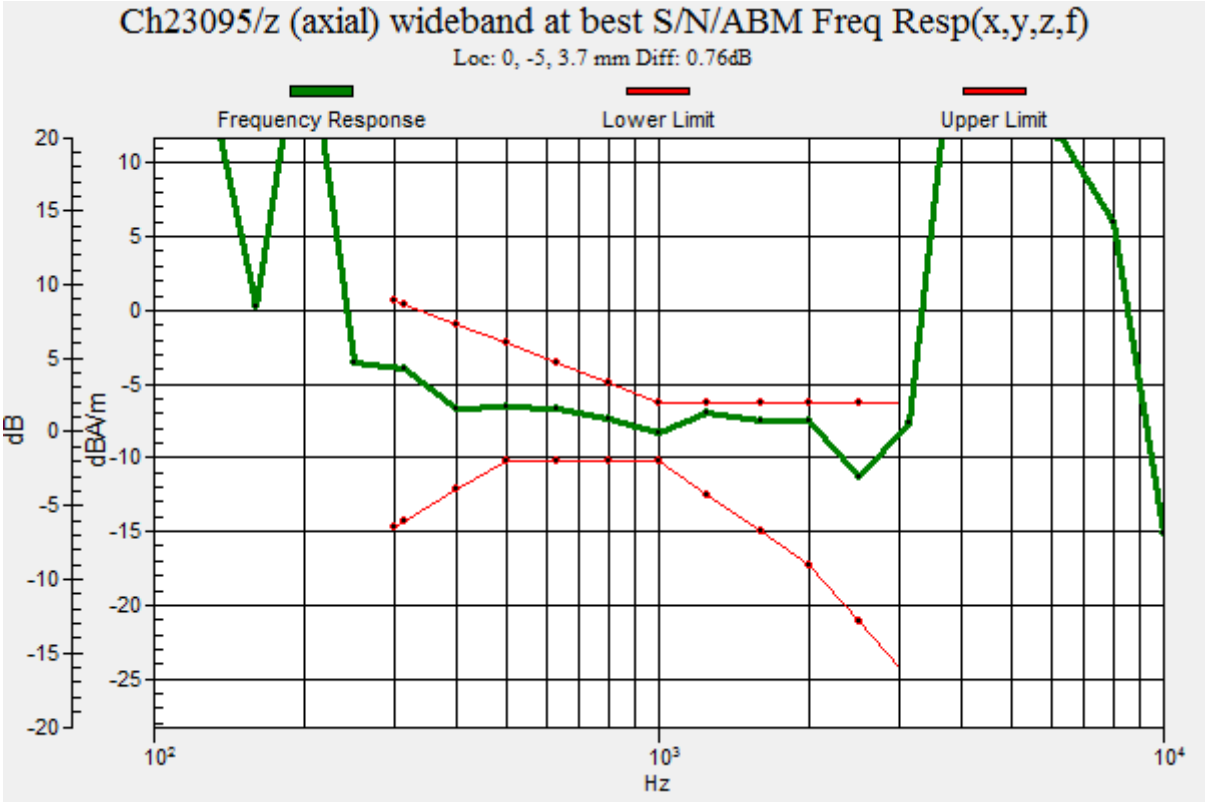
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch23095/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 37.82 dB
ABM1 comp = -4.83 dBA/m
BWC Factor = 0.16 dB
Location: 0, -5, 3.7 mm



0 dB = 77.77 = 37.82 dB


Ch23095/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 0.76dB
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: 2023.11.11

HAC_T-Coil_LTE Band 12_10M_QPSK_1RB_0offset_12.2Kbps_Ch23095_Y

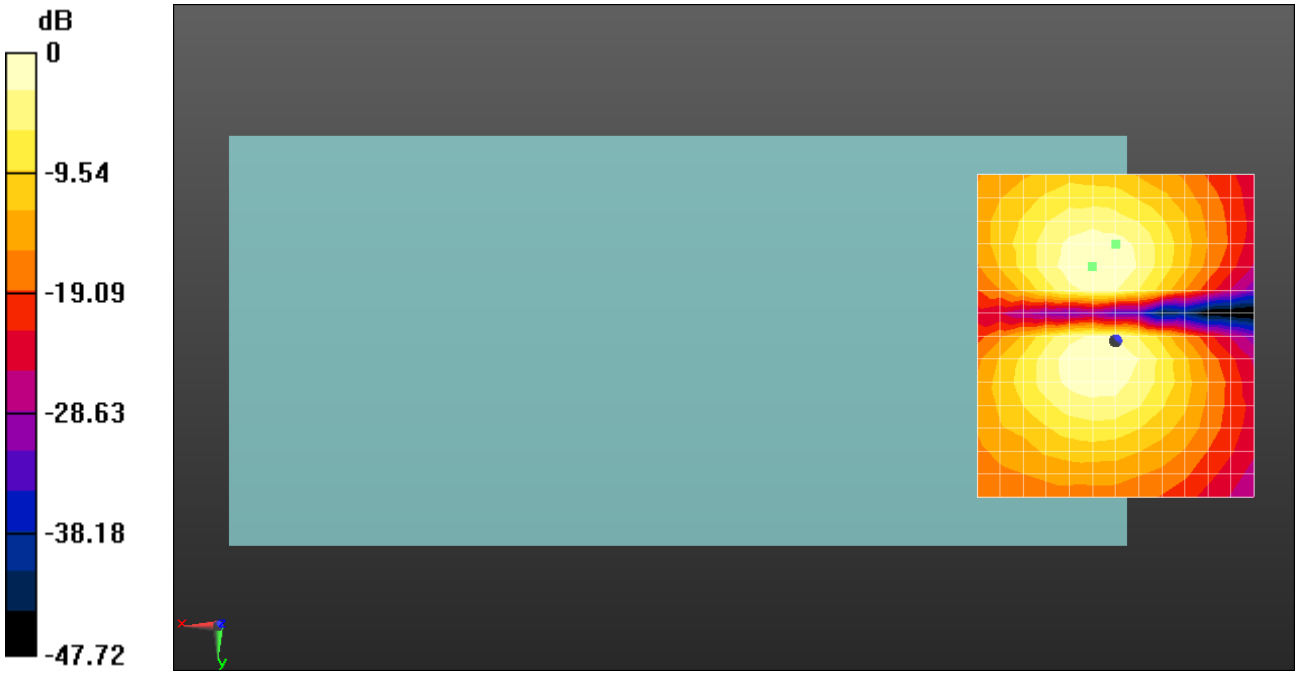
Communication System: UID 10175 - CAB, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 707.5 MHz;Duty Cycle: 1:3.7325

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch23095/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.63 dB
ABM1 comp = -12.98 dBA/m
BWC Factor = 0.16 dB
Location: 0, -17.5, 3.7 mm



0 dB = 60.44 = 35.63 dB

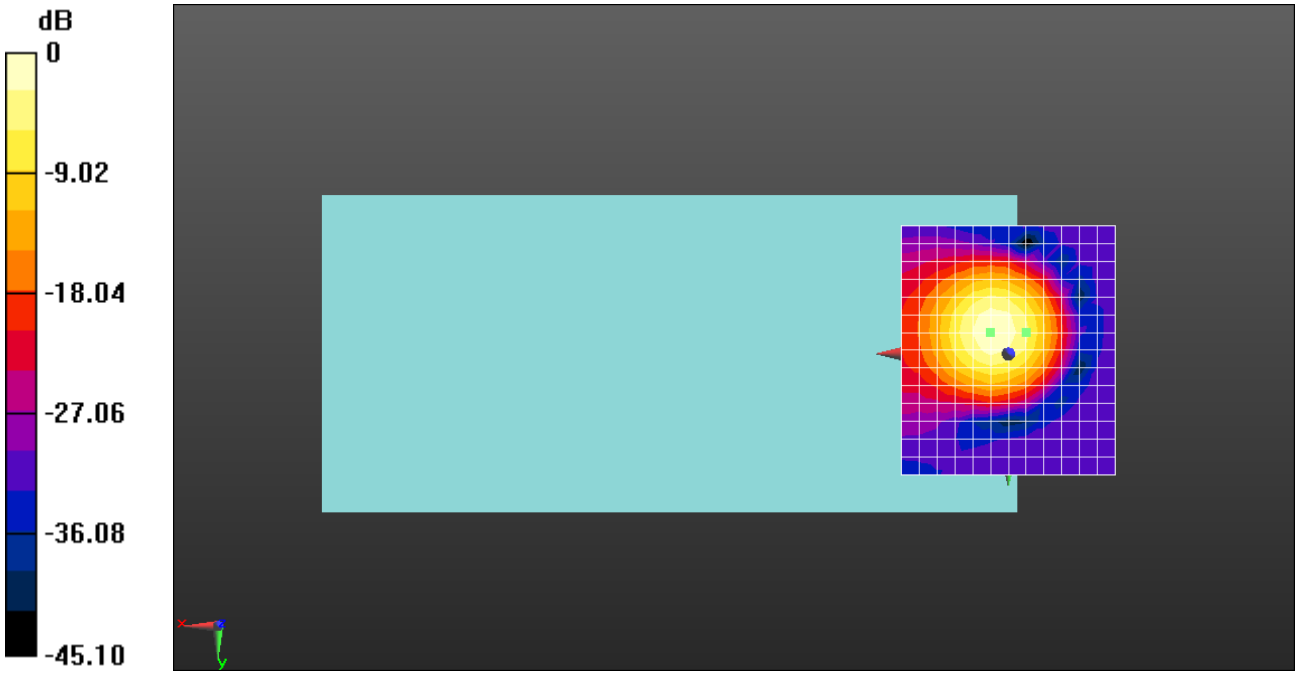
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 17_10M_QPSK_1RB_0offset_12.2Kbps_Ch23790_Z

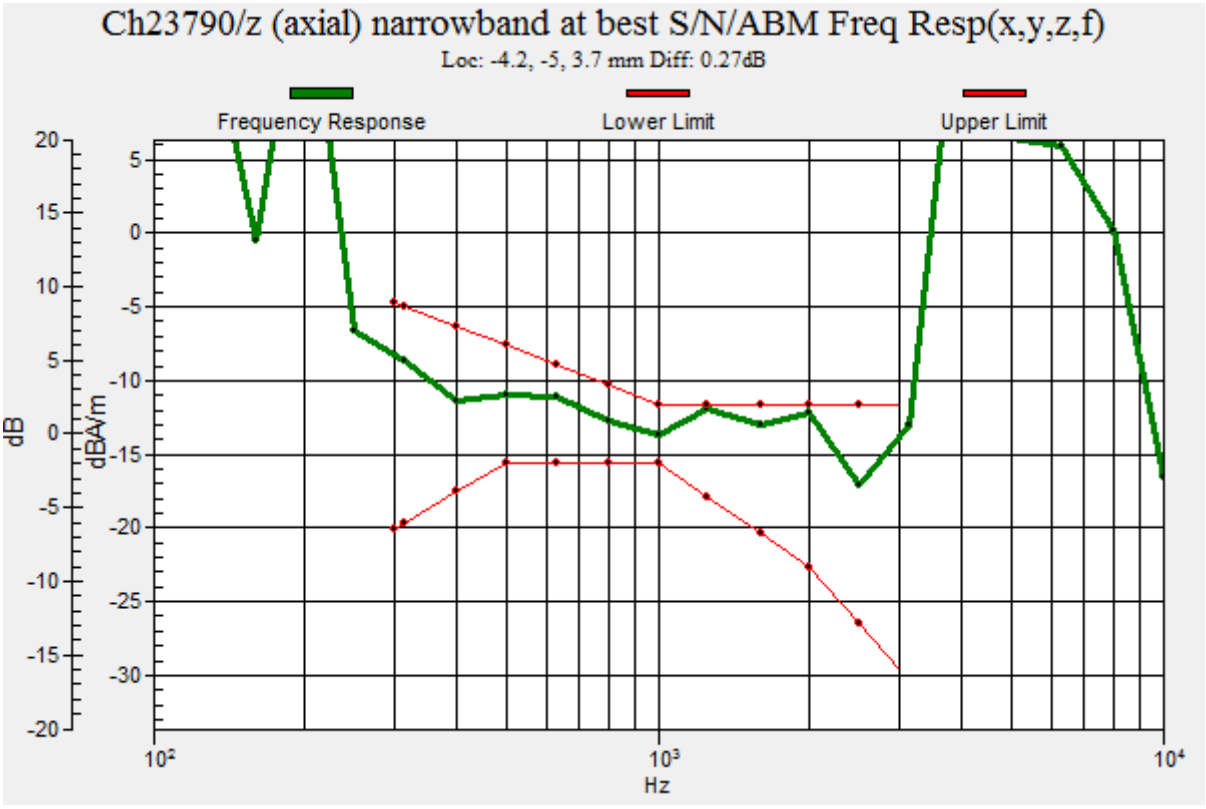
Communication System: UID 10108 - CAB, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK); Frequency: 710 MHz;Duty Cycle: 1:3.80189
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

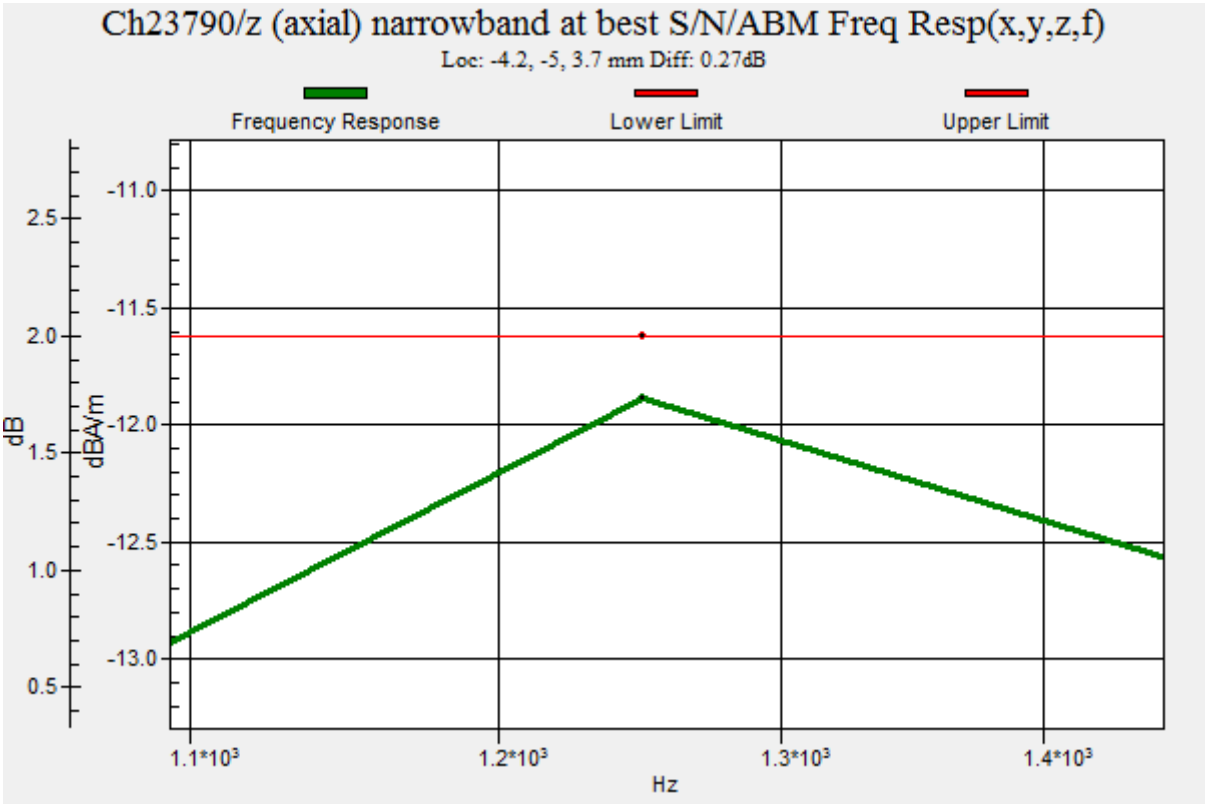
DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch23790/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 37.95 dB
ABM1 comp = -8.92 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -5, 3.7 mm



0 dB = 78.96 = 37.95 dB


Ch23790/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -5, 3.7 mm Diff: 0.27dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴


Ch23790/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -5, 3.7 mm Diff: 0.27dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
1.1*10³
1.2*10³
1.3*10³
1.4*10³

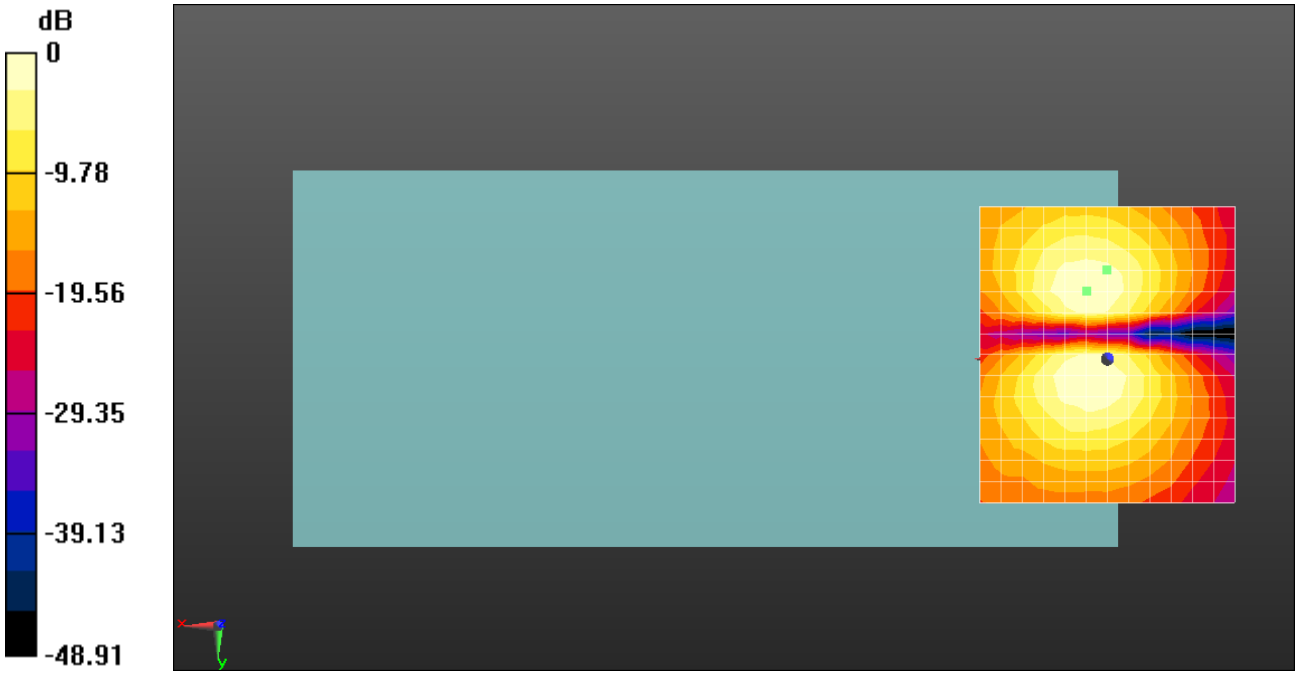
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 17_10M_QPSK_1RB_0offset_12.2Kbps_Ch23790_Y

Communication System: UID 10108 - CAB, LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK);
Frequency: 710 MHz;Duty Cycle: 1:3.80189
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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch23790/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid:
dx=10mm, dy=10mm
ABM1/ABM2 = 35.59 dB
ABM1 comp = -13.58 dBA/m
BWC Factor = 0.16 dB
Location: 0, -17.5, 3.7 mm



0 dB = 60.19 = 35.59 dB

HAC_T-Coil_LTE Band 25_20M_QPSK_1RB_0offset_12.2Kbps_Ch26365_Z

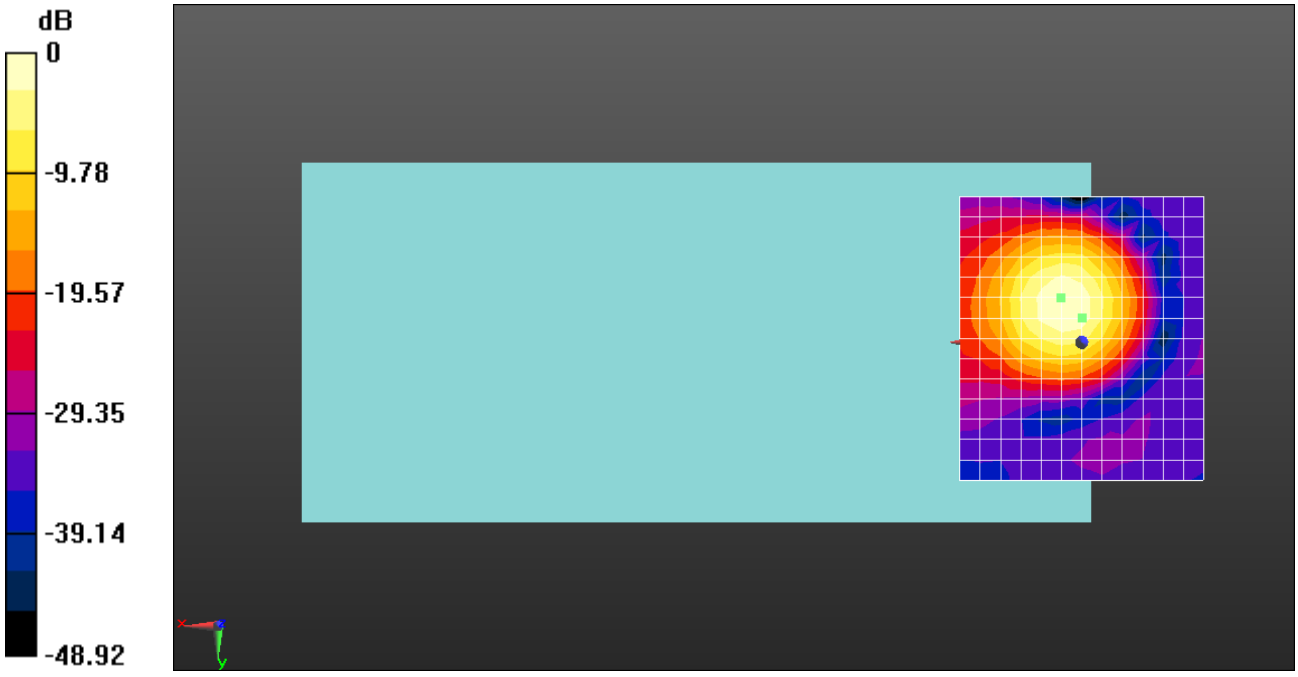
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1882.5 MHz;Duty Cycle: 1:3.74111

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

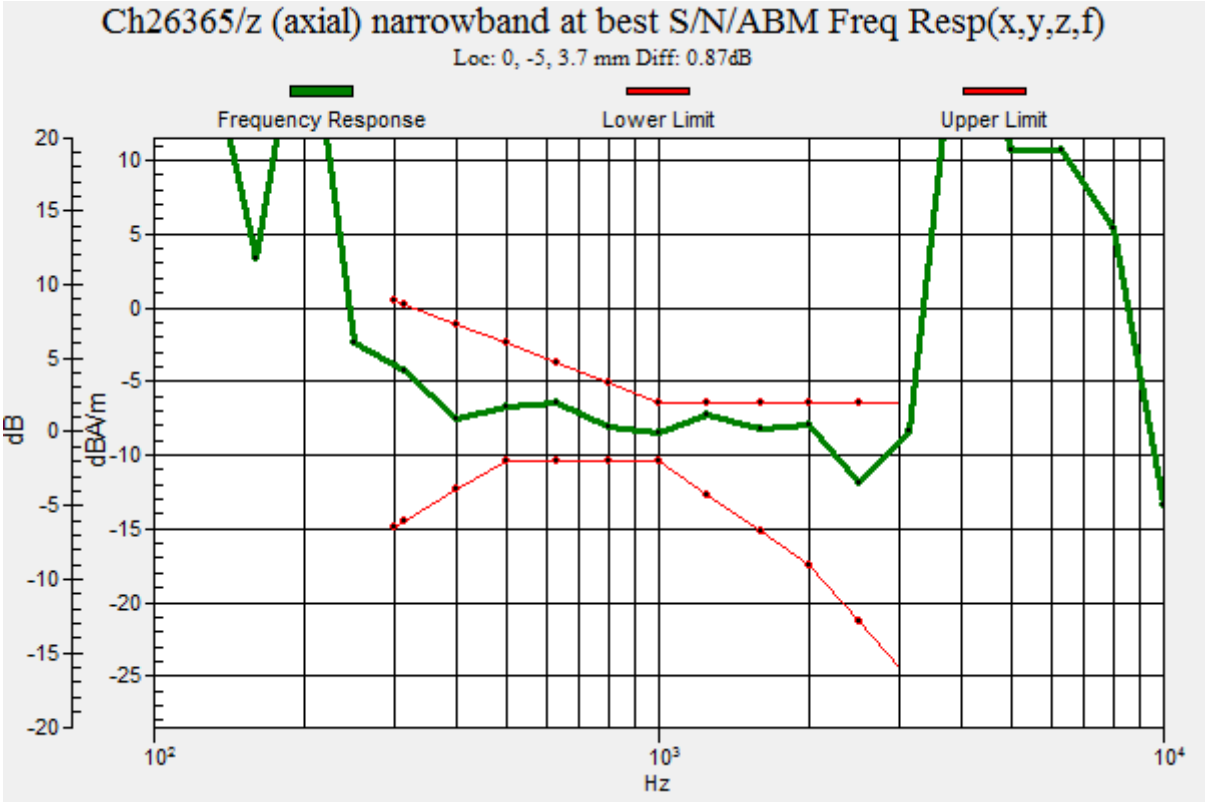
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch26365/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 38.36 dB
ABM1 comp = -5.29 dBA/m
BWC Factor = 0.16 dB
Location: 0, -5, 3.7 mm



0 dB = 82.81 = 38.36 dB


Ch26365/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 0.87dB
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: 2023.11.11

HAC_T-Coil_LTE Band 25_20M_QPSK_1RB_0offset_12.2Kbps_Ch26365_Y

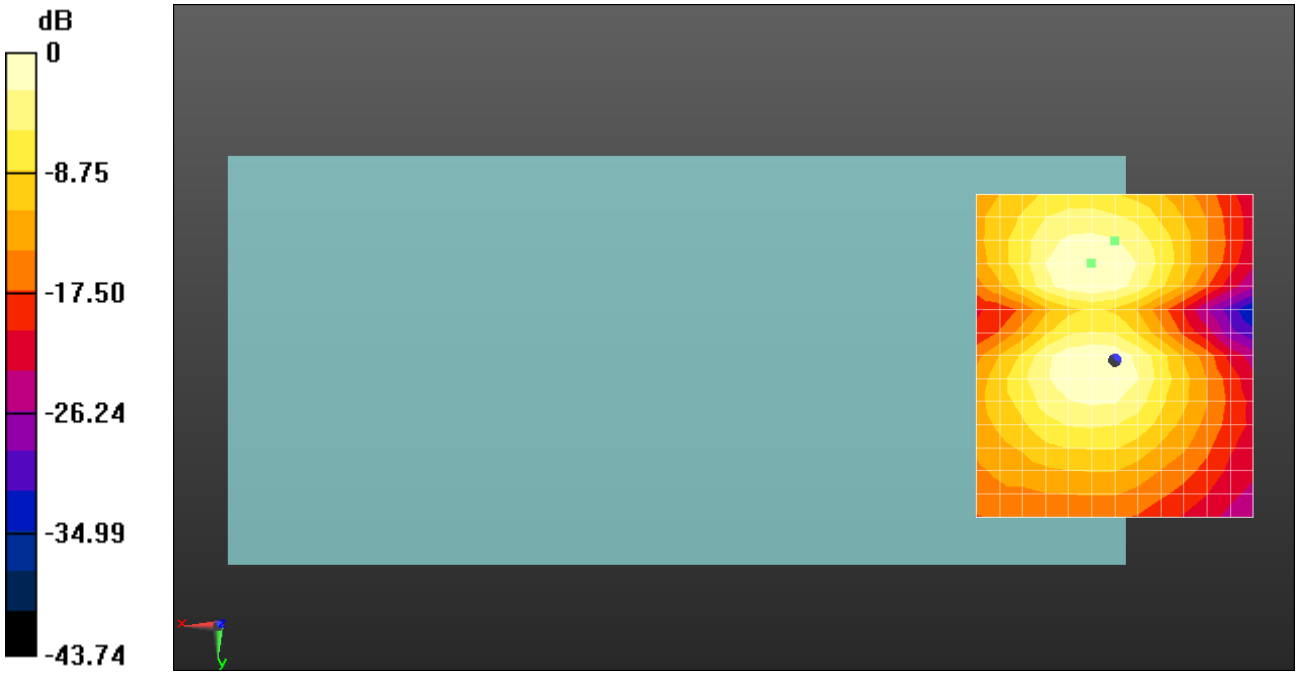
Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1882.5 MHz;Duty Cycle: 1:3.74111

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch26365/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 34.56 dB
ABM1 comp = -14.87 dBA/m
BWC Factor = 0.16 dB
Location: 0, -21.7, 3.7 mm



0 dB = 53.48 = 34.56 dB

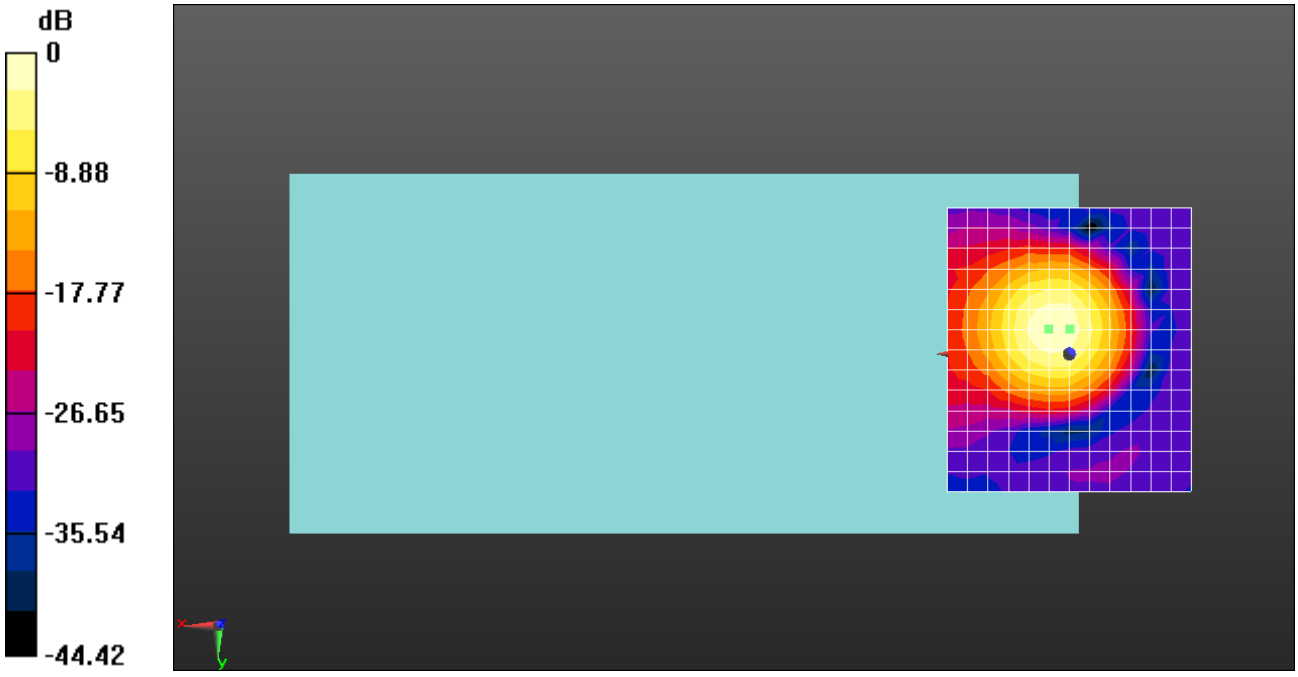
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 26_15M_QPSK_1RB_0offset_12.2Kbps_Ch26865_Z

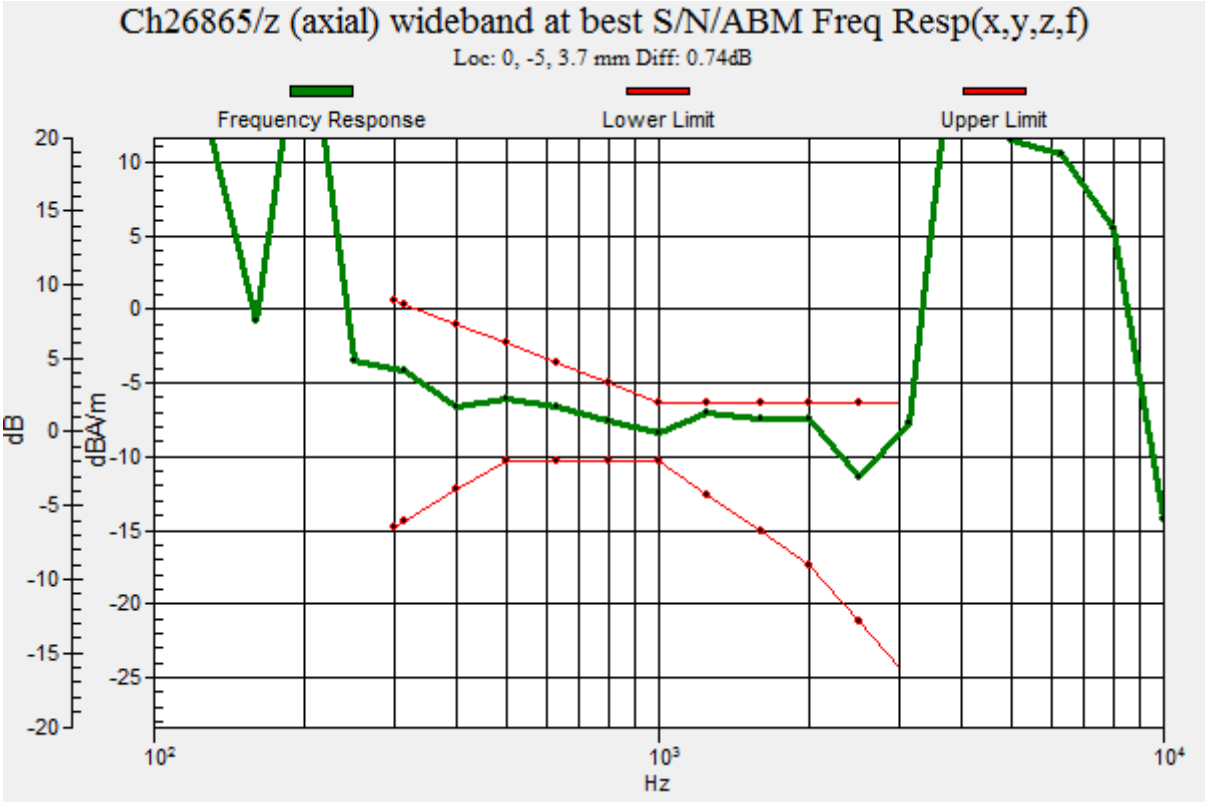
Communication System: UID 10311 - AAA, LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK);
Frequency: 831.5 MHz;Duty Cycle: 1:4.03645
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch26865/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 38.26 dB
ABM1 comp = -4.35 dBA/m
BWC Factor = 0.16 dB
Location: 0, -5, 3.7 mm



0 dB = 81.86 = 38.26 dB


Ch26865/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 0.74dB
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

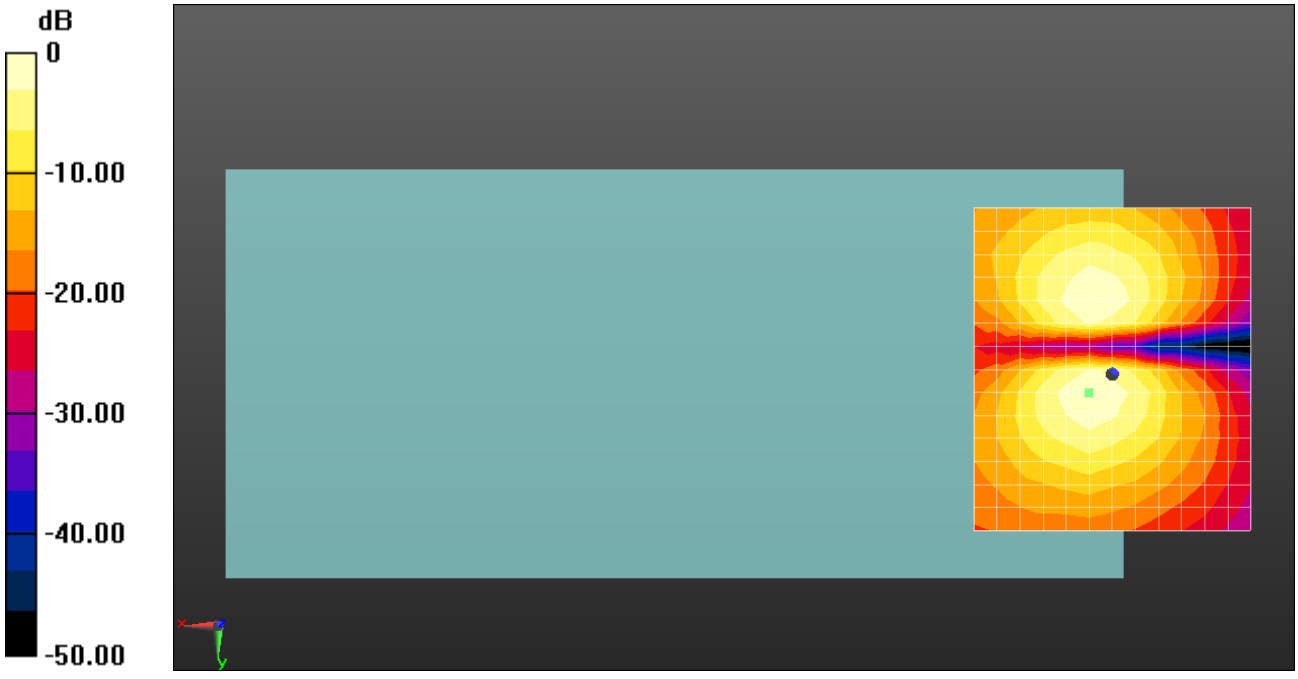
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 26_15M_QPSK_1RB_0offset_12.2Kbps_Ch26865_Y

Communication System: UID 10311 - AAA, LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK);
Frequency: 831.5 MHz;Duty Cycle: 1:4.03645
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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch26865/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid:
dx=10mm, dy=10mm
ABM1/ABM2 = 42.44 dB
ABM1 comp = -10.68 dBA/m
BWC Factor = 0.16 dB
Location: 4.2, 3.3, 3.7 mm



0 dB = 132.4 = 42.44 dB

HAC_T-Coil_LTE Band 41_20M_QPSK_1RB_0offset_12.2Kbps_Ch40620_Z

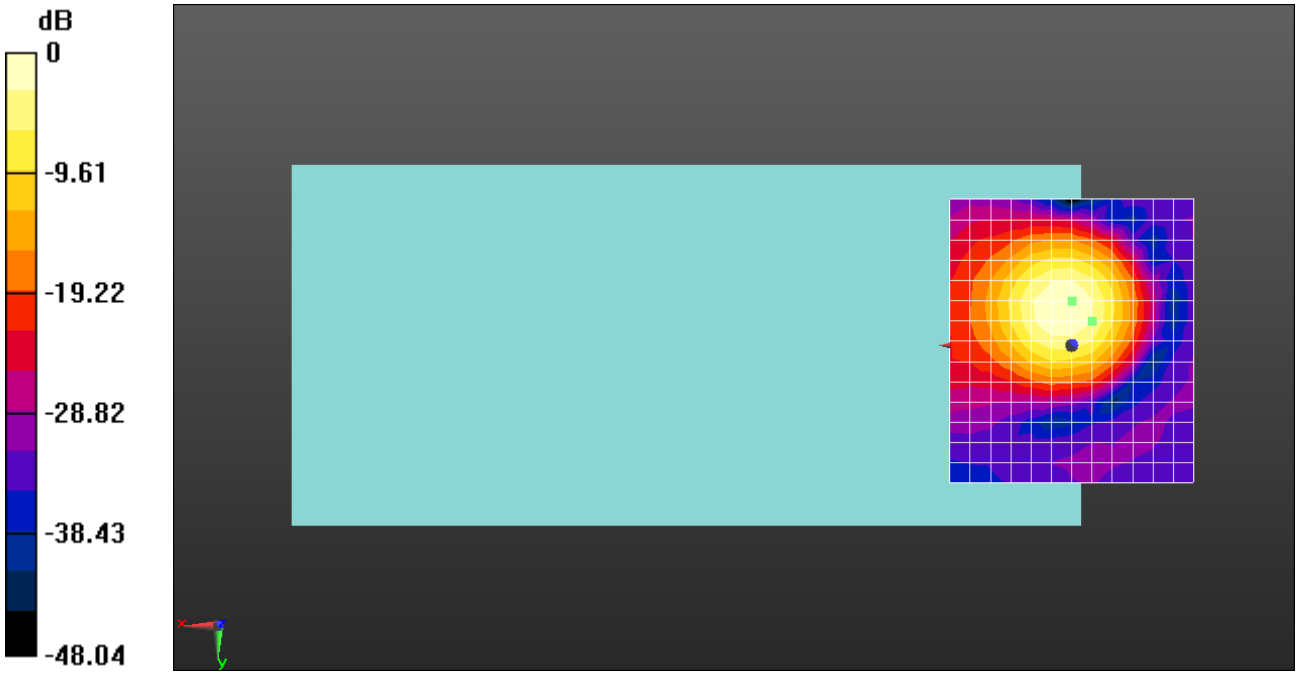
Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2593 MHz;Duty Cycle: 1:8.33681

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

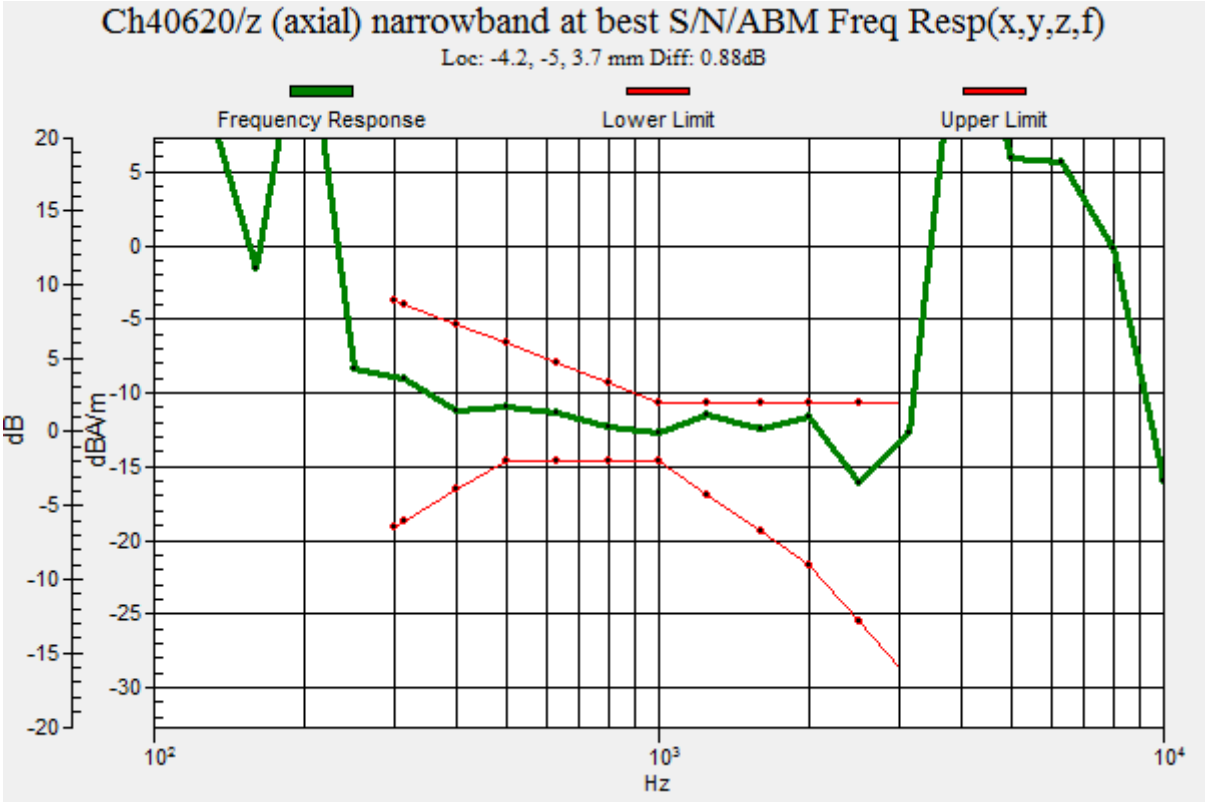
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch40620/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 29.74 dB
ABM1 comp = -7.35 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -5, 3.7 mm



0 dB = 30.70 = 29.74 dB


Ch40620/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: -4.2, -5, 3.7 mm Diff: 0.88dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴

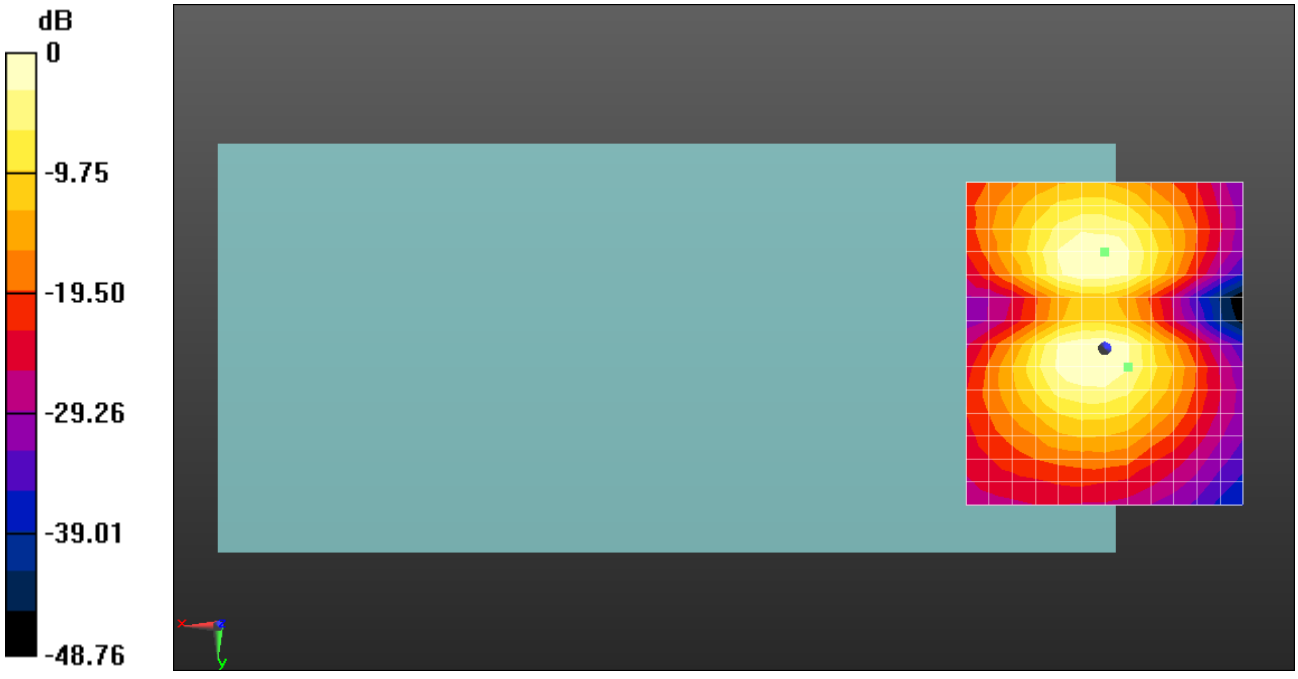
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 41_20M_QPSK_1RB_0offset_12.2Kbps_Ch40620_Y

Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2593 MHz;Duty Cycle: 1:8.33681
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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch40620/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 29.36 dB
ABM1 comp = -13.54 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, 3.3, 3.7 mm



0 dB = 29.38 = 29.36 dB

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 66_20M_QPSK_1RB_0offset_12.2Kbps_Ch132322_Z

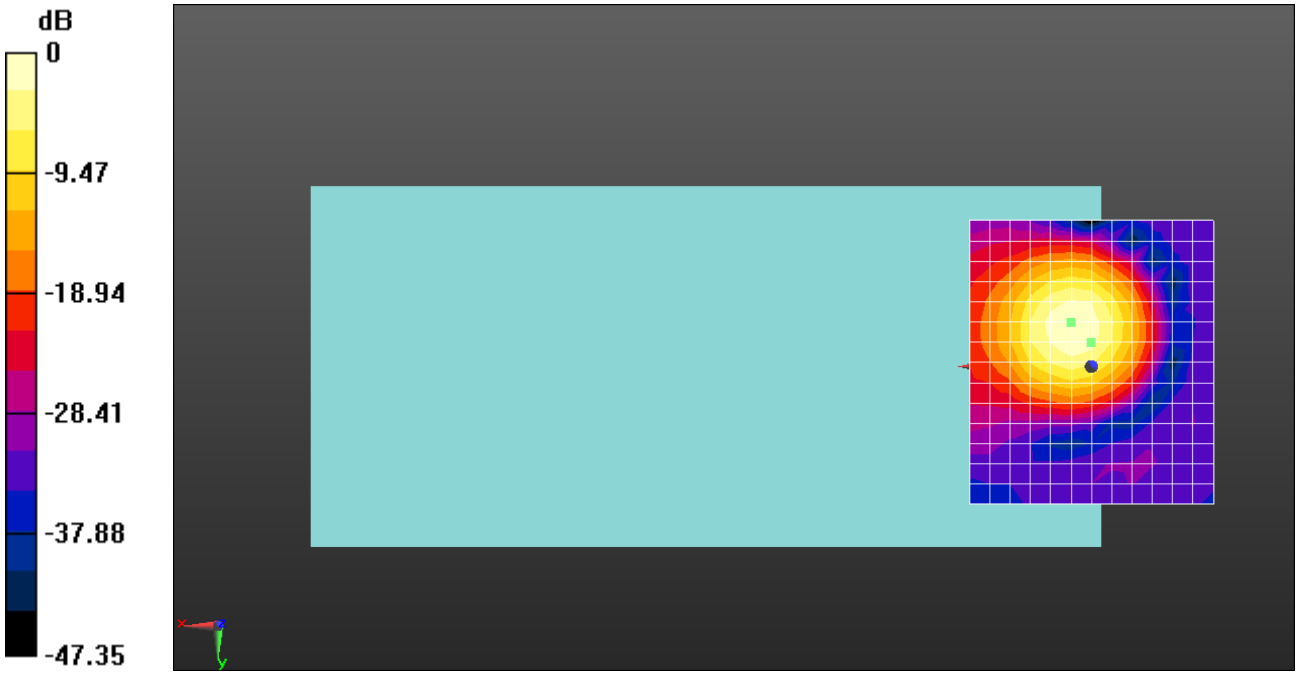
Communication System: UID 0, LTE-FDD (SC-FDMA, 1RB, 20MHz, QPSK) (0); Frequency: 1745 MHz;Duty Cycle: 1:3.74111

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

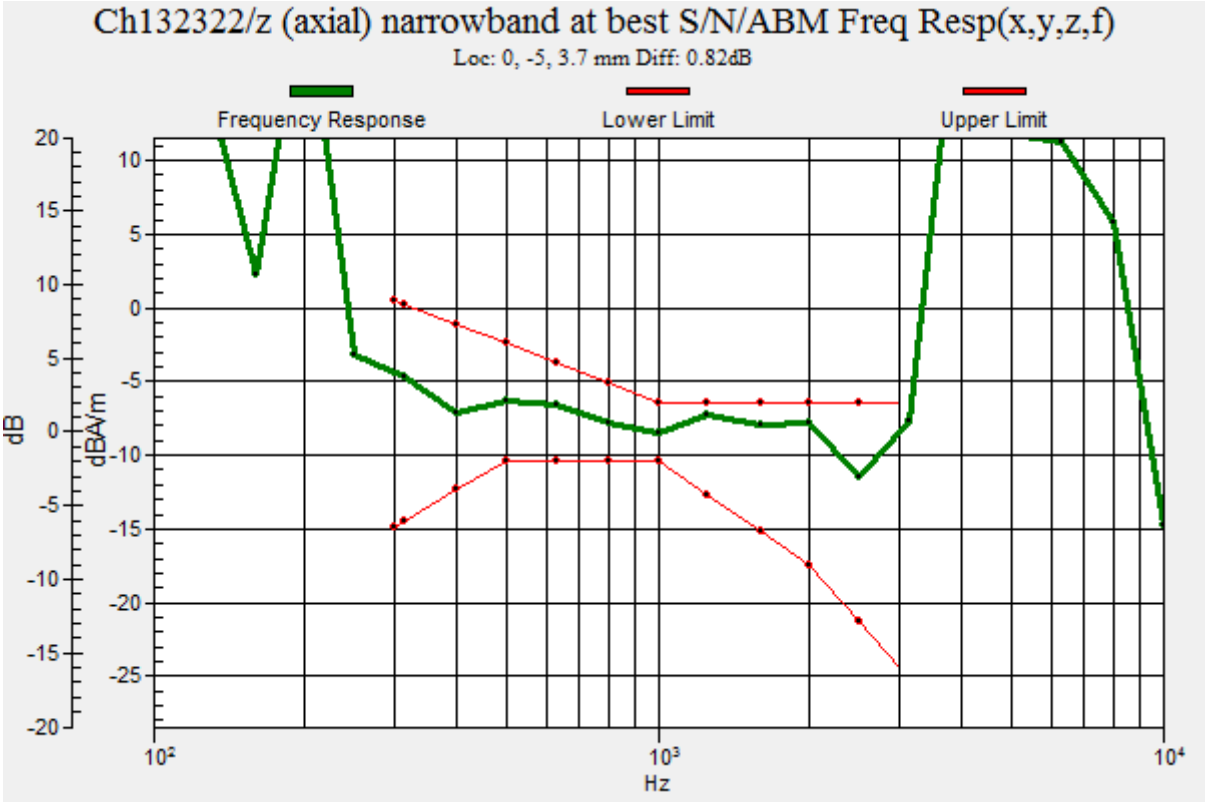
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch132322/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 38.35 dB
ABM1 comp = -5.78 dBA/m
BWC Factor = 0.16 dB
Location: 0, -5, 3.7 mm



0 dB = 82.69 = 38.35 dB


Ch132322/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -5, 3.7 mm Diff: 0.82dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
20
15
10
5
0
-5
-10
-15
-20
-25
10²
10³
10⁴

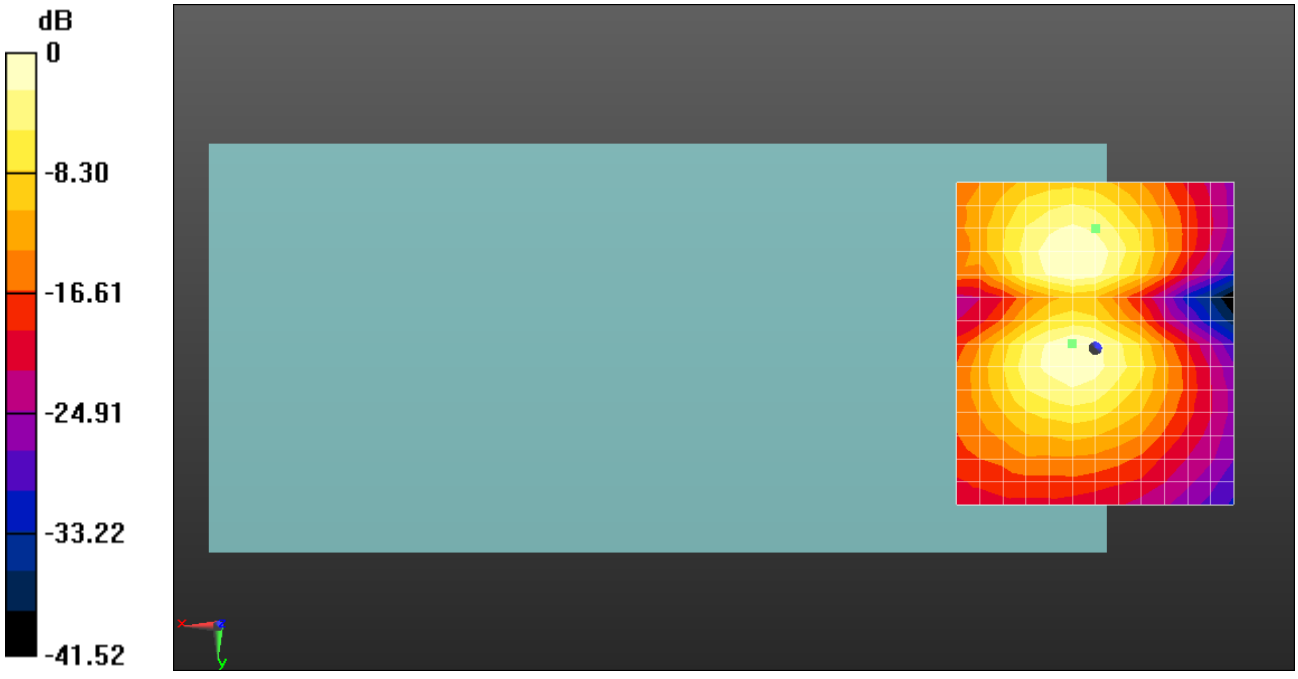
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.11

HAC_T-Coil_LTE Band 66_20M_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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch132322/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 34.05 dB
ABM1 comp = -14.57 dBA/m
BWC Factor = 0.16 dB
Location: 0, -21.7, 3.7 mm



0 dB = 50.42 = 34.05 dB

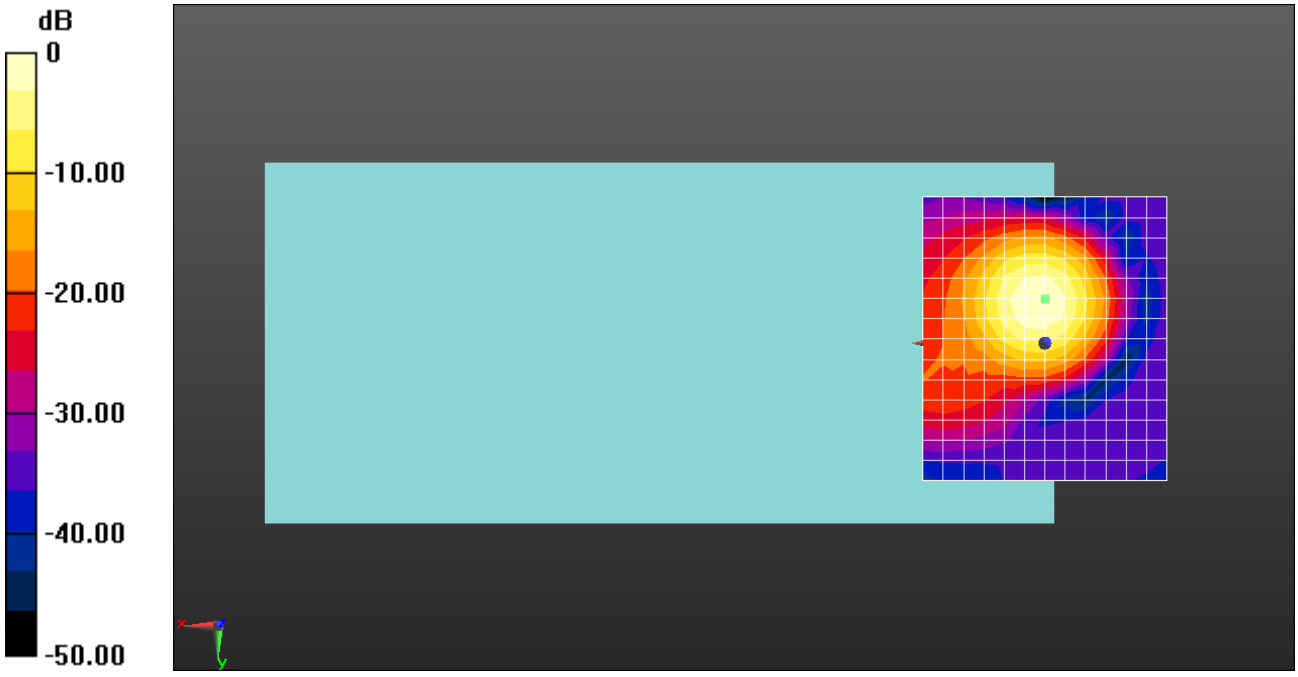
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 2.4GHz_802.11b 1Mbps_AMR 4.75Kbps_Ch7_Z

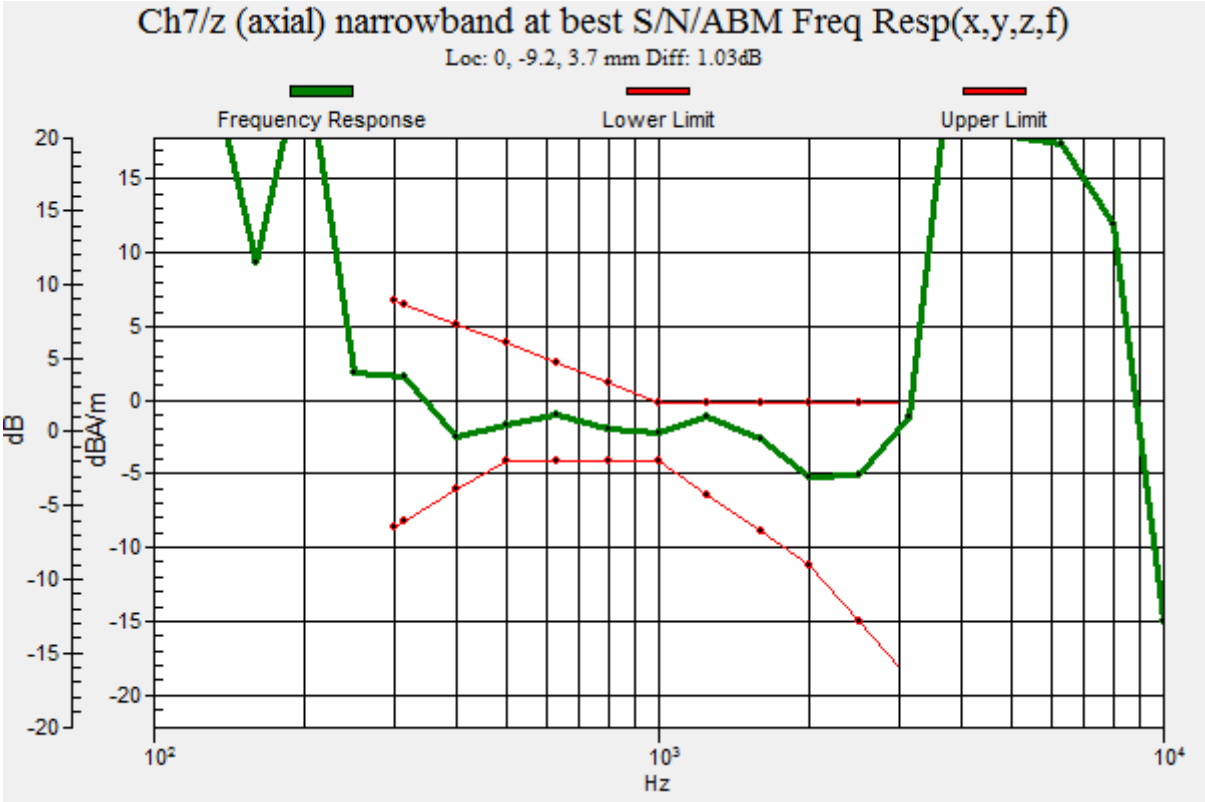
Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2442 MHz;Duty Cycle: 1:1.42561
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch7/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 43.58 dB
ABM1 comp = -3.77 dBA/m
BWC Factor = 0.15 dB
Location: 0, -9.2, 3.7 mm



0 dB = 151.1 = 43.59 dB


Ch7/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 1.03dB
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

HAC_T-Coil_VoWiFi 2.4GHz_802.11b 1Mbps_AMR 4.75Kbps_Ch7_Y

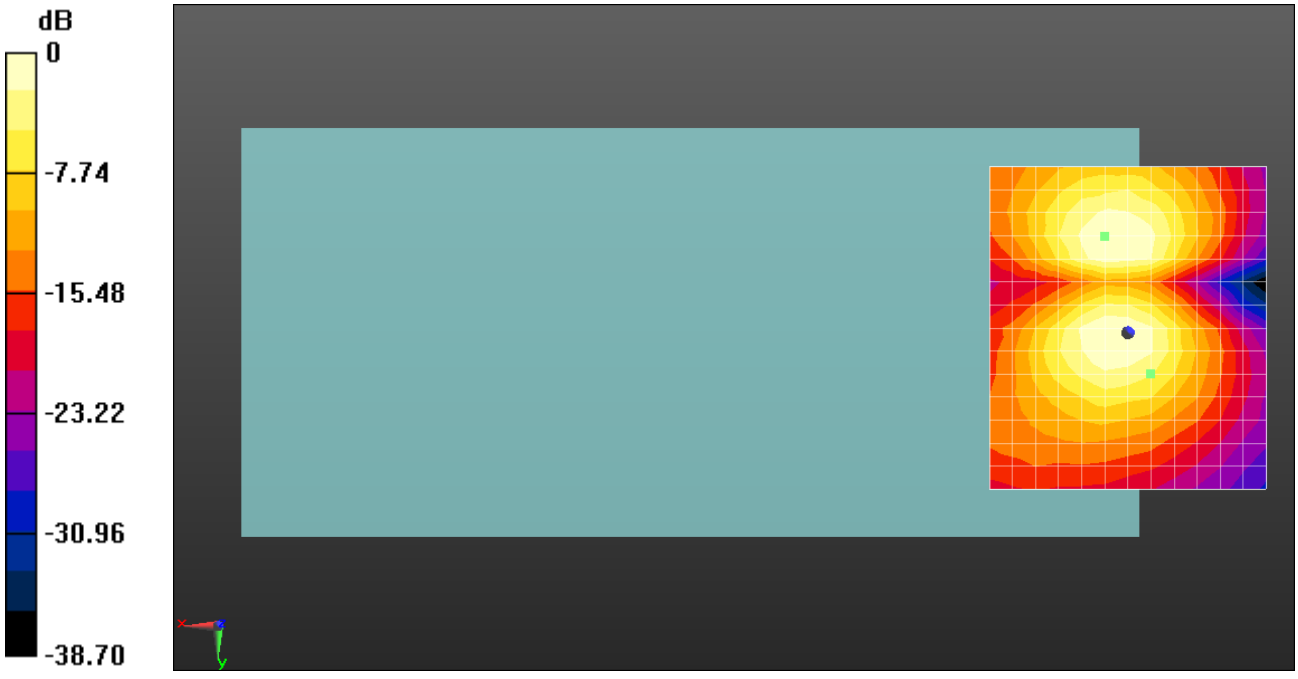
Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2442 MHz;Duty Cycle: 1:1.42561

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch7/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 = -16.29 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 7.5, 3.7 mm



0 dB = 42.91 = 32.65 dB

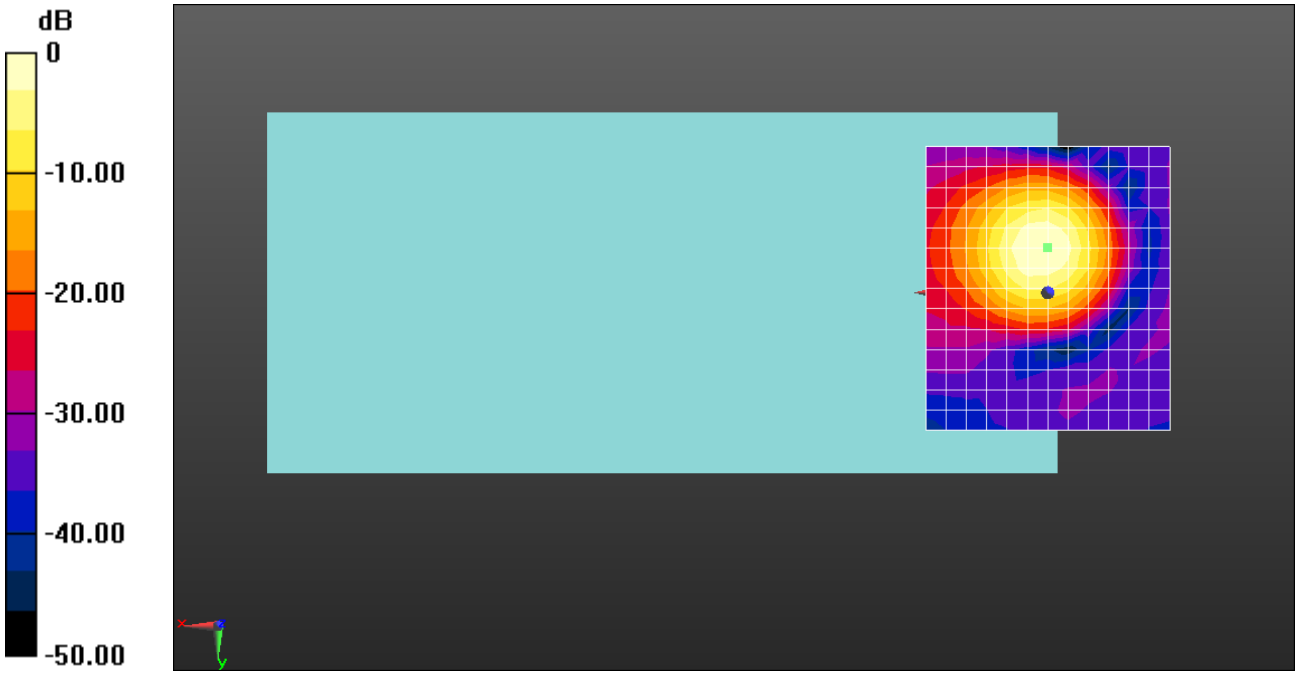
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 2.4GHz_802.11g 6Mbps_AMR 4.75Kbps_Ch7_Z

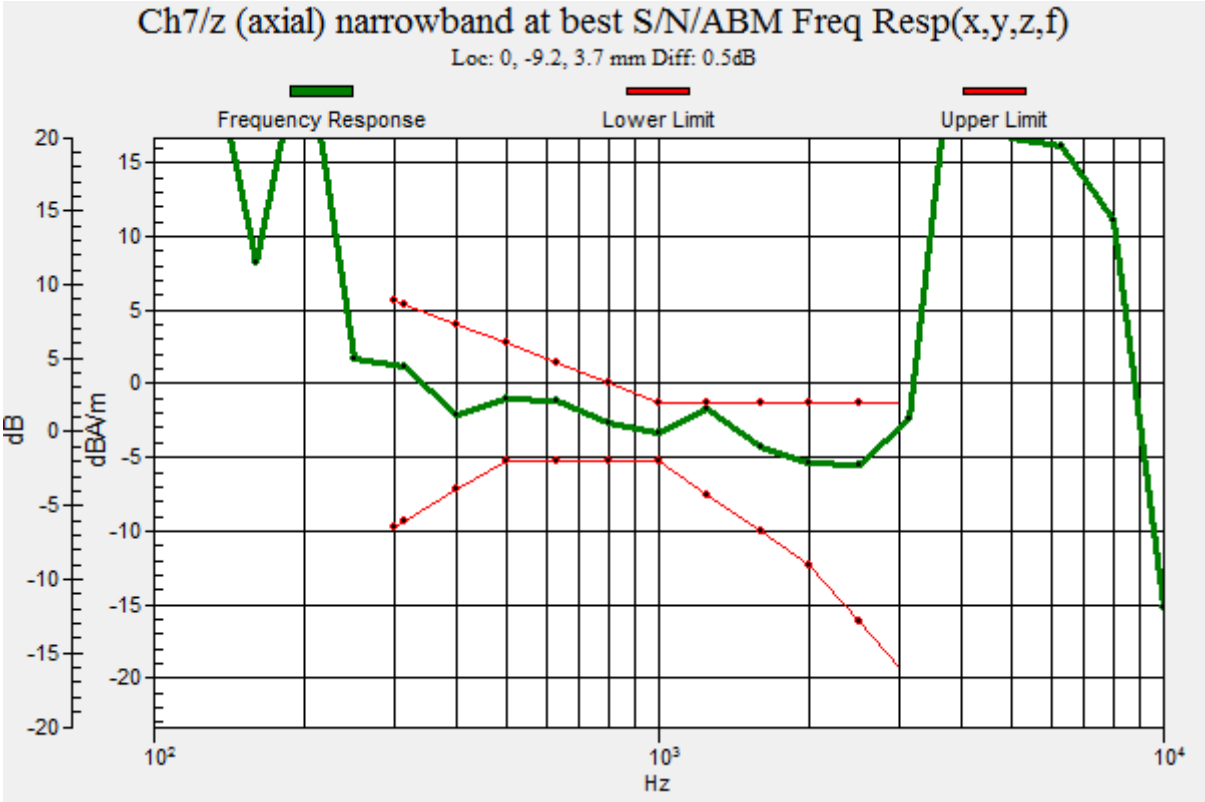
Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2442 MHz;Duty Cycle: 1:1.42561
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

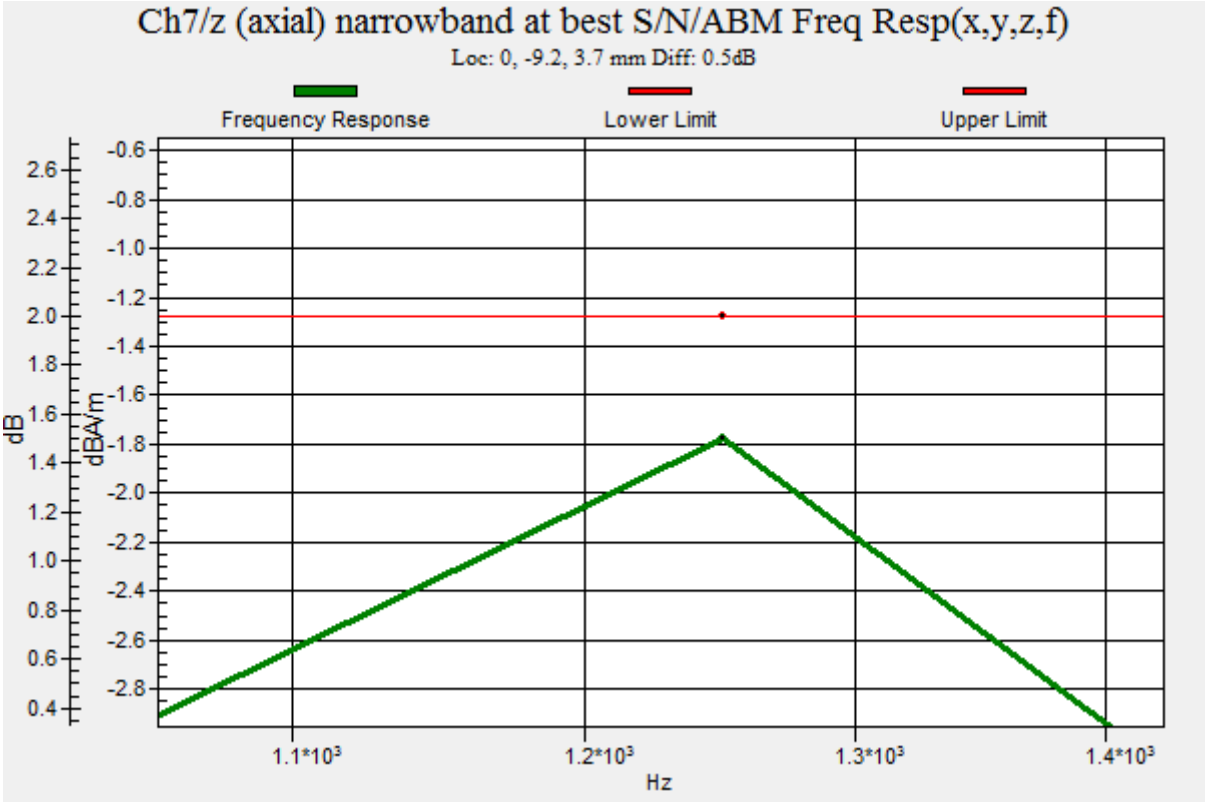
DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch7/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 44.98 dB
ABM1 comp = -3.68 dBA/m
BWC Factor = 0.16 dB
Location: 0, -9.2, 3.7 mm



0 dB = 177.4 = 44.98 dB


Ch7/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.5dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴


Ch7/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.5dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
1.1*10³
1.2*10³
1.3*10³
1.4*10³

HAC_T-Coil_VoWiFi 2.4GHz_802.11g 6Mbps_AMR 4.75Kbps_Ch7_Y

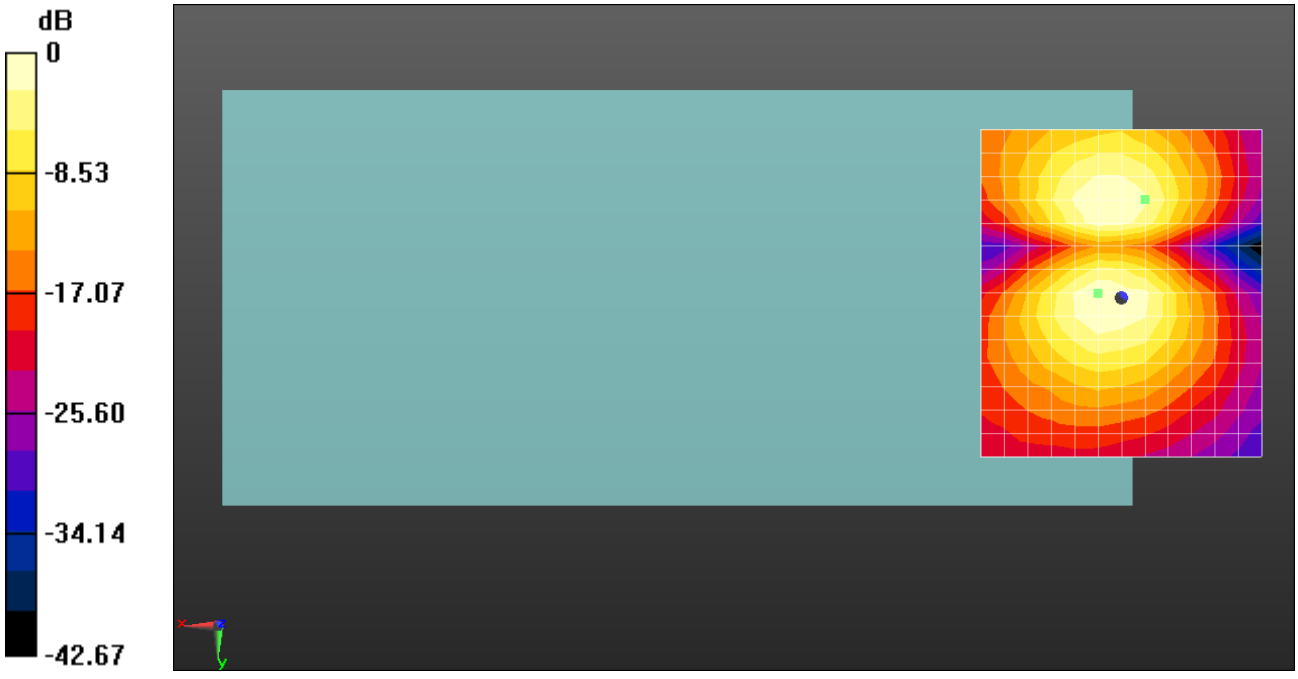
Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2442 MHz;Duty Cycle: 1:1.42561

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch7/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 37.02 dB
ABM1 comp = -13.29 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 70.96 = 37.02 dB

HAC_T-Coil_VoWiFi 2.4GHz_802.11n-HT20 MCS0_AMR 4.75Kbps_Ch7_Z

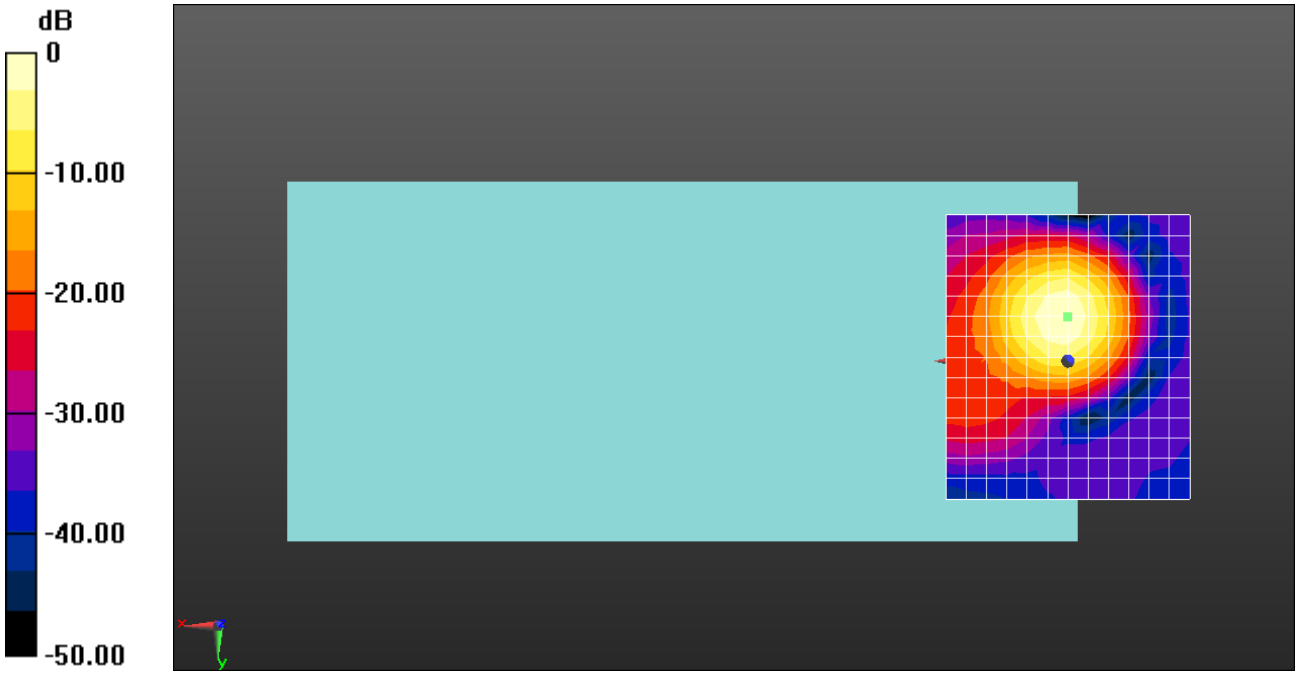
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 2437 MHz;Duty Cycle: 1:6.45654

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

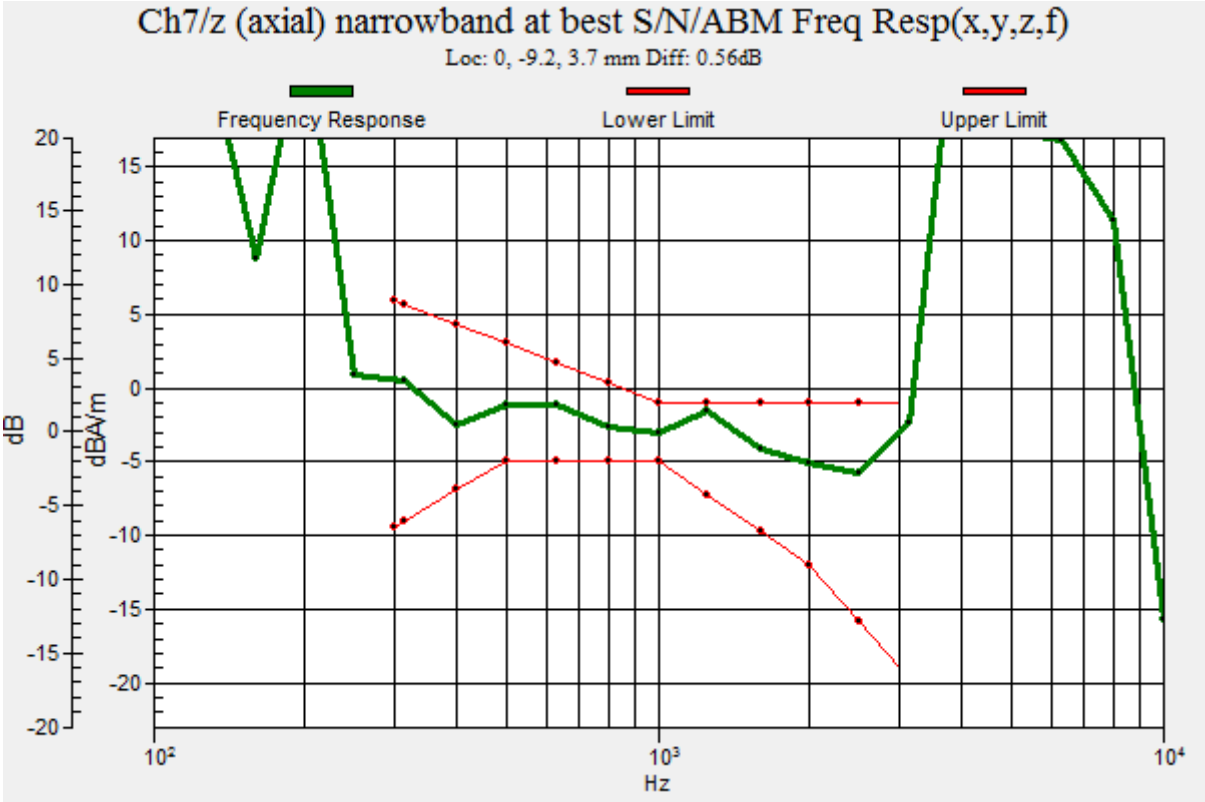
Ambient Temperature：23.2 ℃

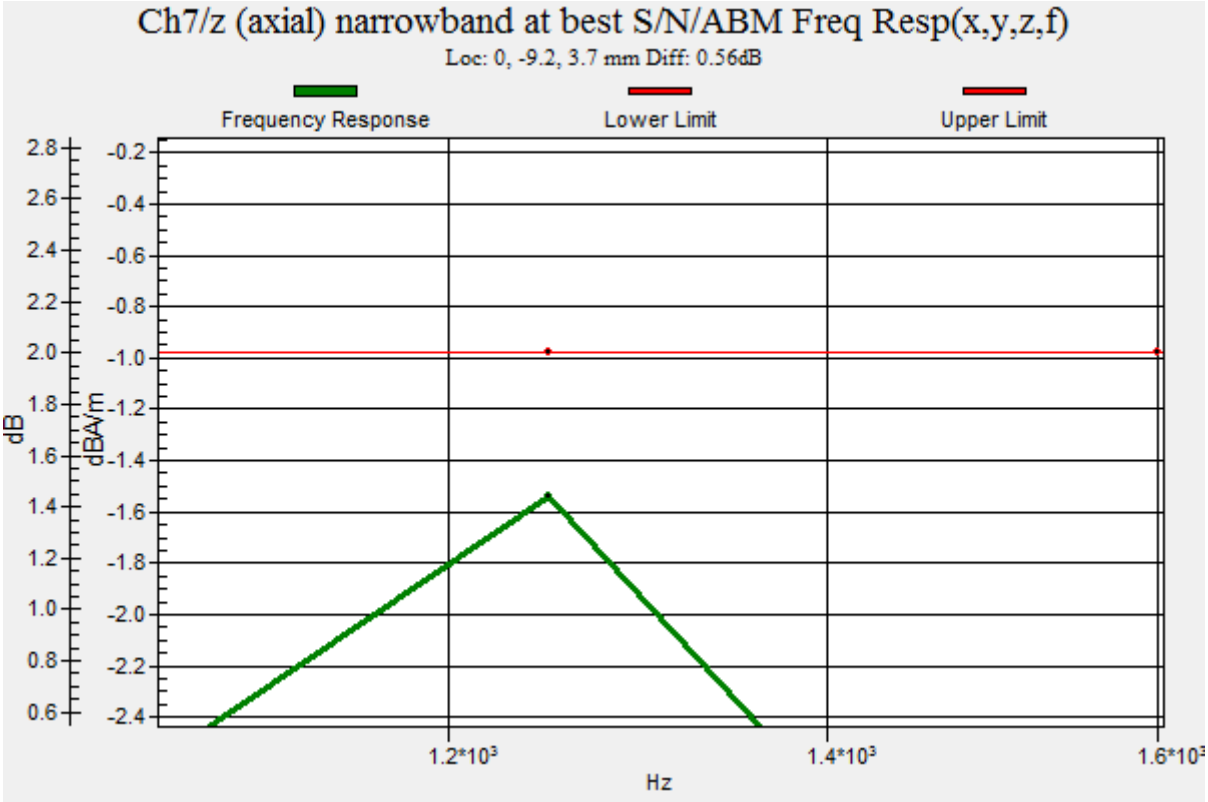
DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch7/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 43.93 dB
ABM1 comp = -3.35 dBA/m
BWC Factor = 0.16 dB
Location: 0, -9.2, 3.7 mm



0 dB = 157.1 = 43.92 dB


Ch7/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.56dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴


Ch7/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.56dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
1.2*10³
1.4*10³
1.6*10³

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 2.4GHz_802.11n-HT20 MCS0_AMR 4.75Kbps_Ch7_Y

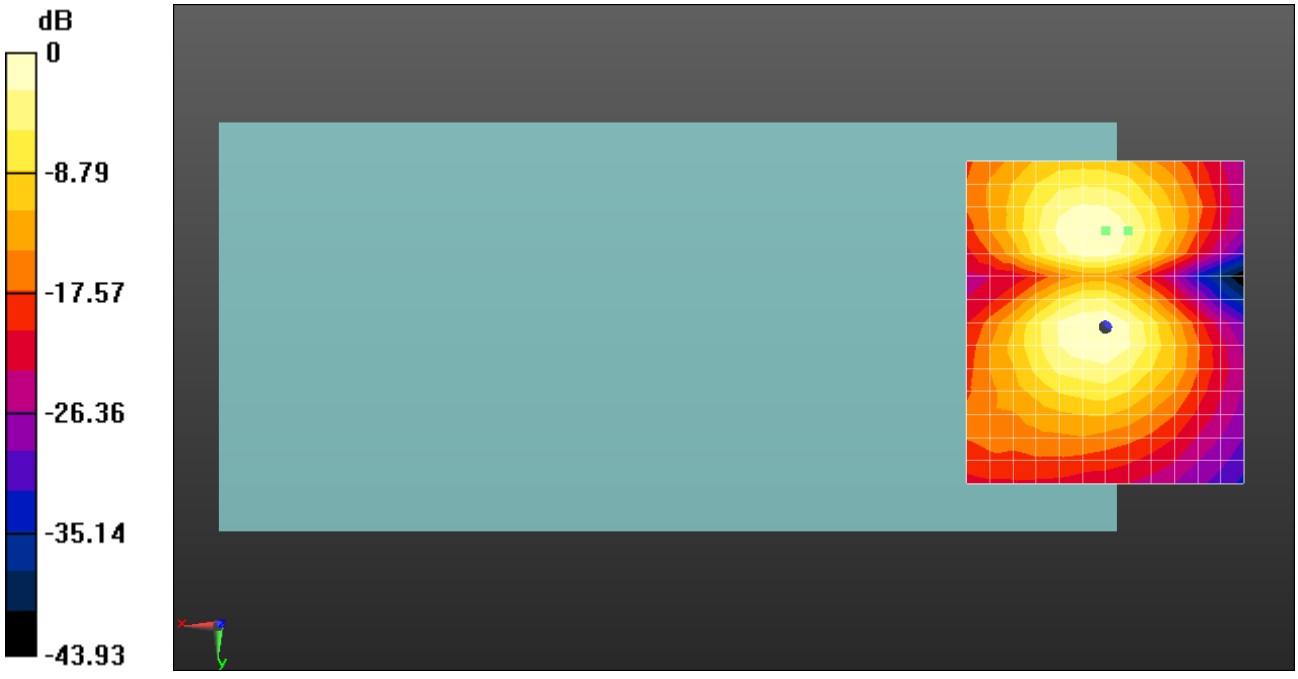
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 2442 MHz;Duty Cycle: 1:6.45654

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch7/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 37.70 dB
ABM1 comp = -13.73 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 76.71 = 37.70 dB

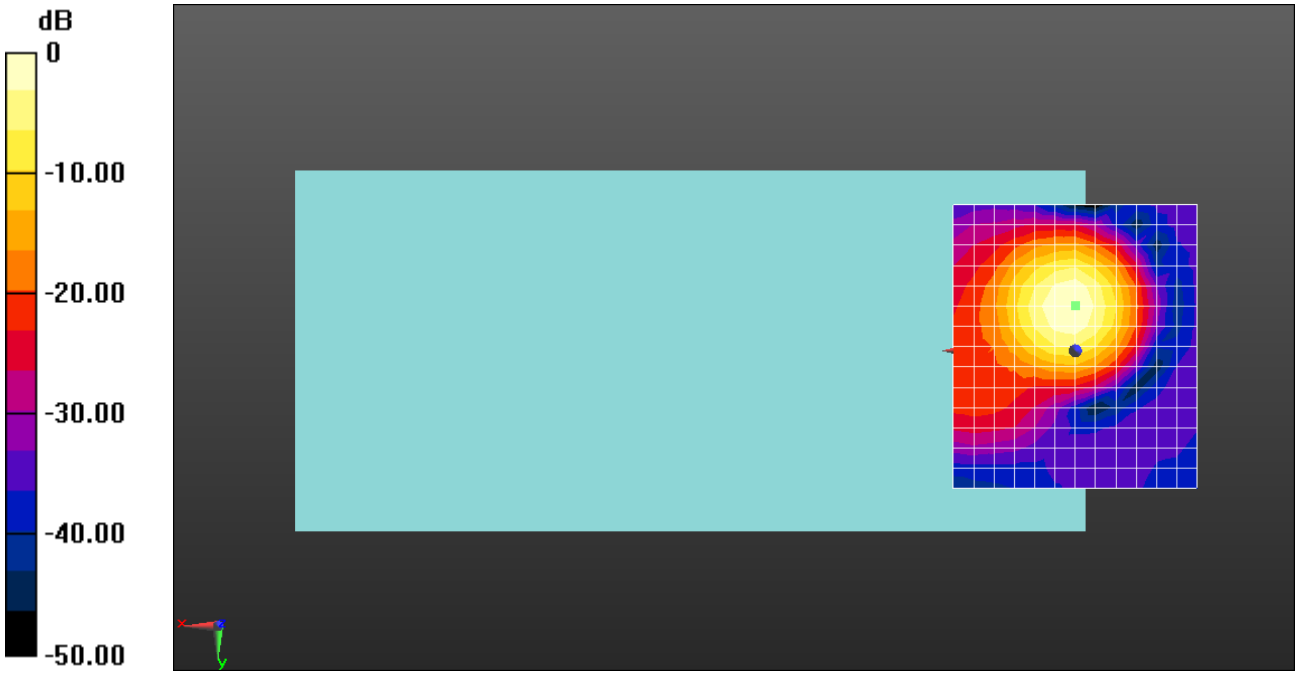
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 2.4GHz_802.11n-HT40 MCS0_AMR 4.75Kbps_Ch6_Z

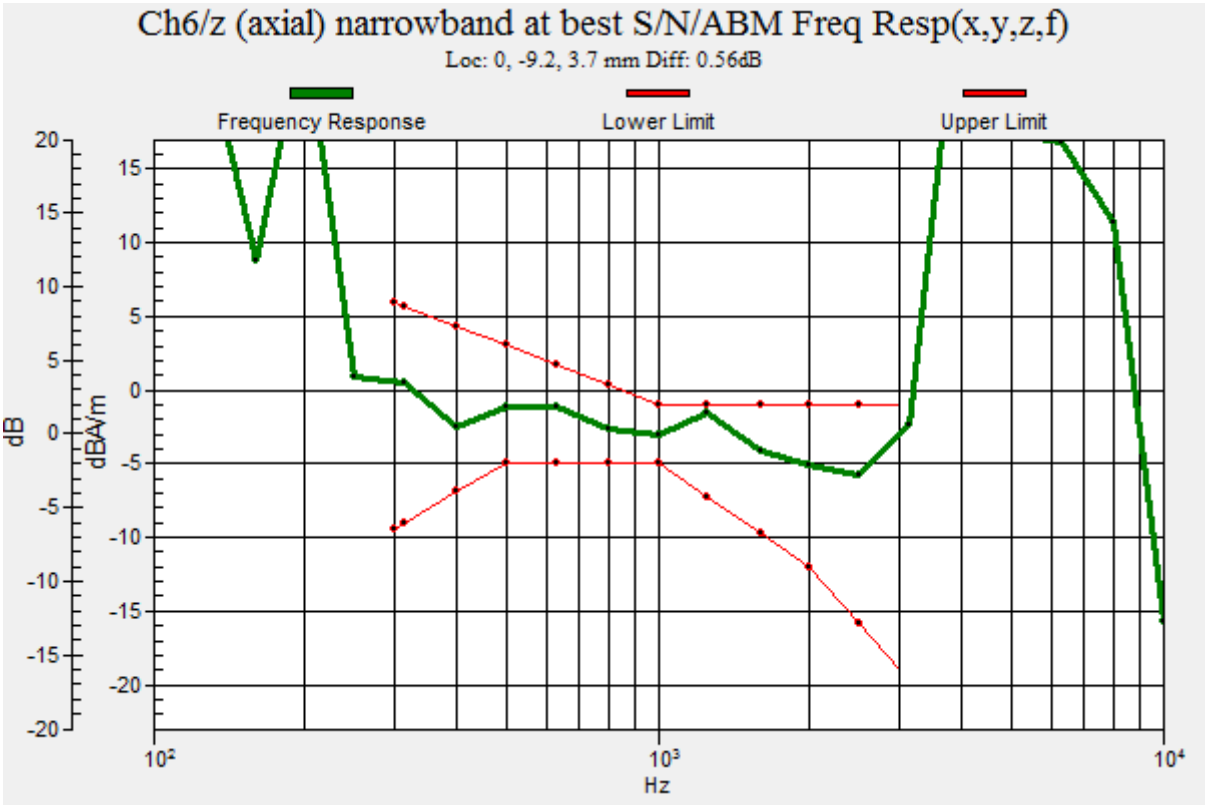
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 2437 MHz;Duty Cycle: 1:6.45654
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

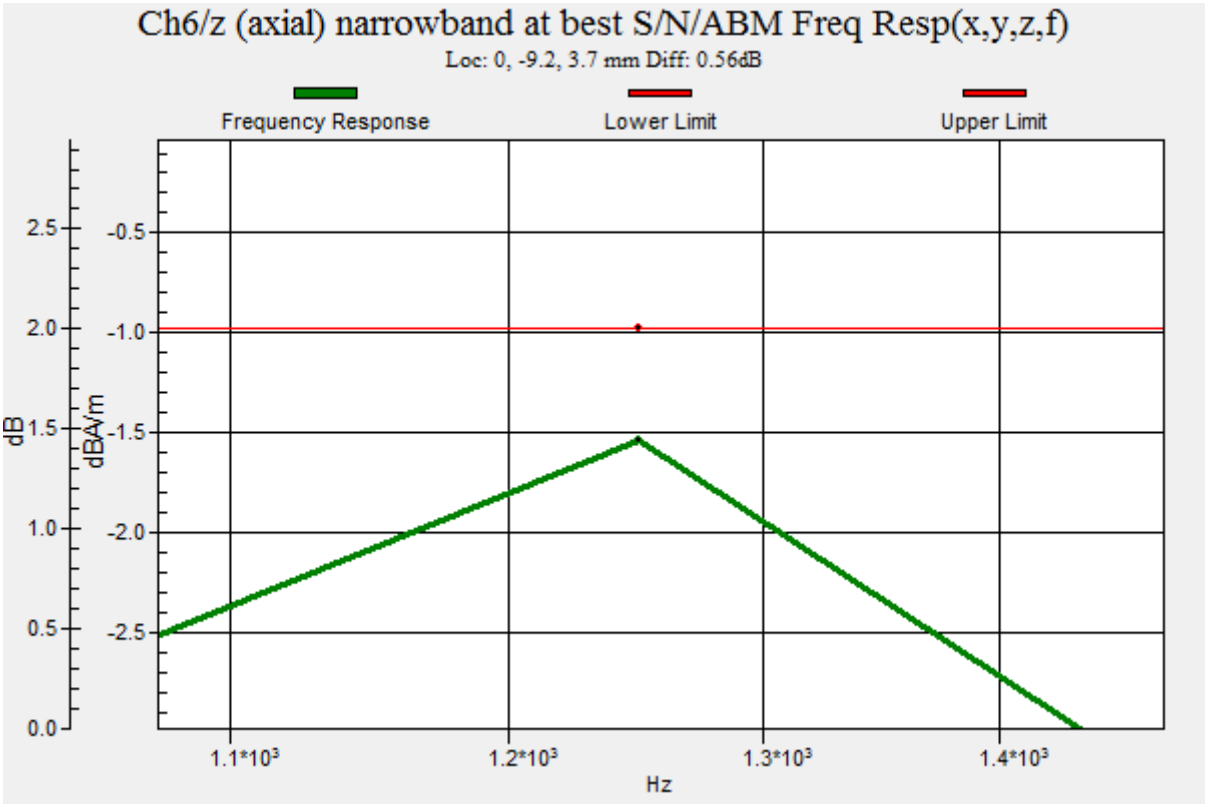
DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch6/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 41.72 dB
ABM1 comp = -4.16 dBA/m
BWC Factor = 0.16 dB
Location: 0, -9.2, 3.7 mm



0 dB = 121.9 = 41.72 dB


Ch6/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.56dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴


Ch6/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.56dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
1.1*10³
1.2*10³
1.3*10³
1.4*10³

HAC_T-Coil_VoWiFi 2.4GHz_802.11n-HT40 MCS0_AMR 4.75Kbps_Ch6_Y

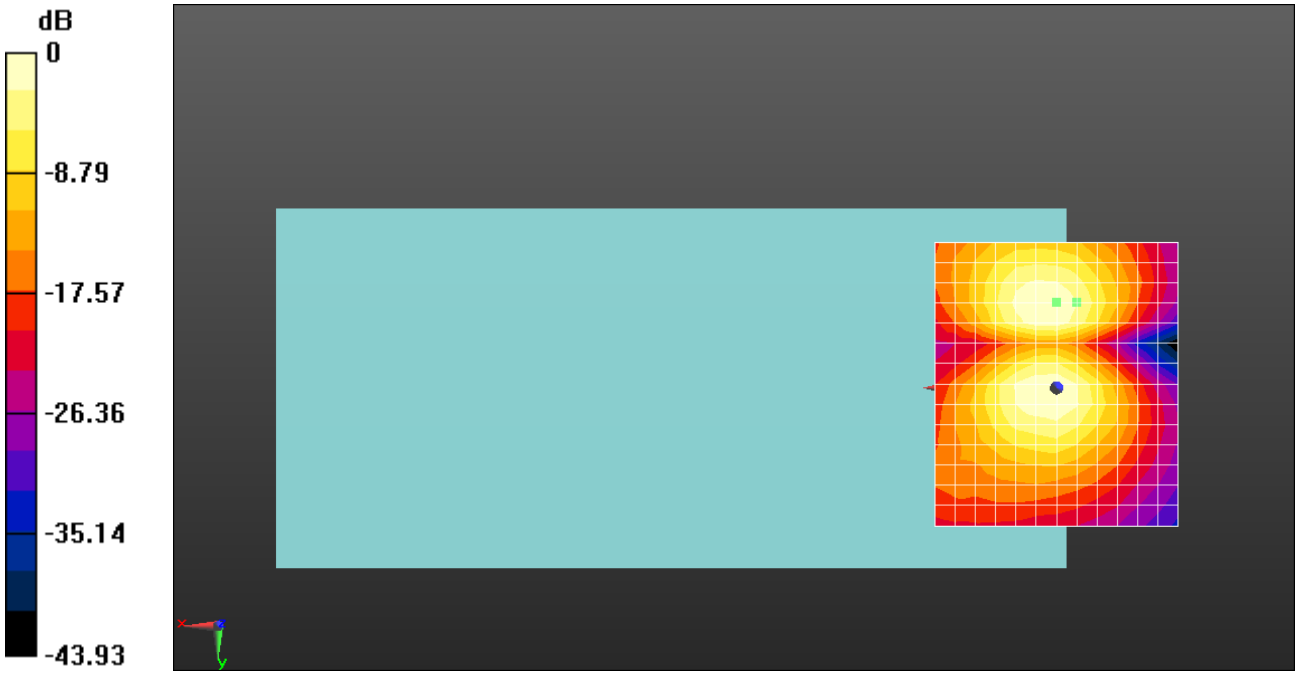
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 2437 MHz;Duty Cycle: 1:6.45654

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch6/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 38.16 dB
ABM1 comp = -14.51 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 80.91 = 38.16 dB

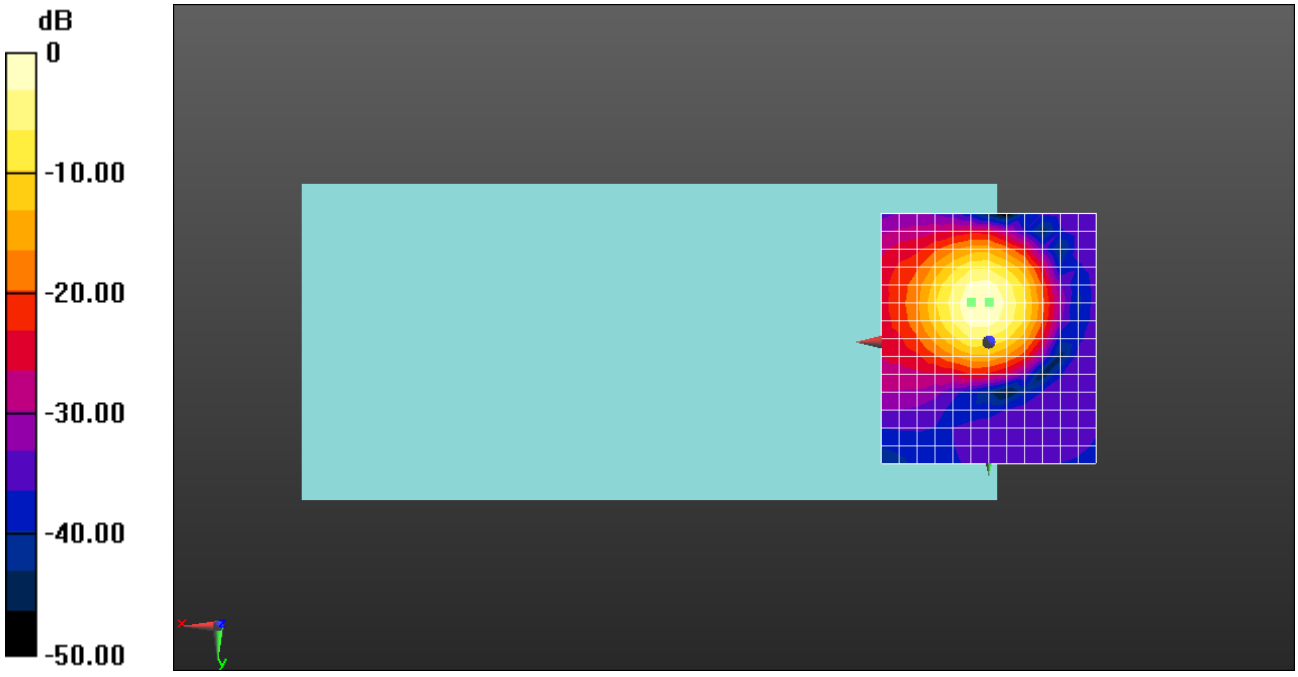
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 5.2GHz_802.11a 6Mbps_AMR 4.75Kbps_Ch44_Z

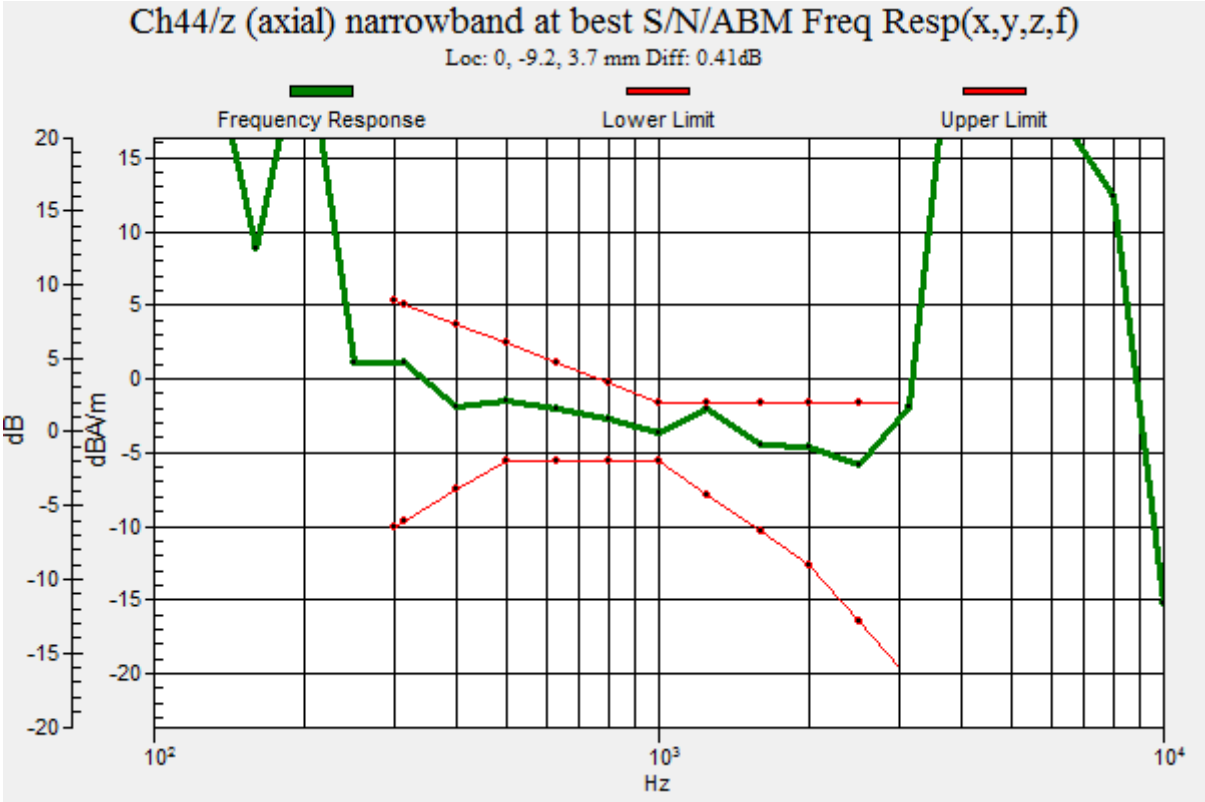
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5220 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

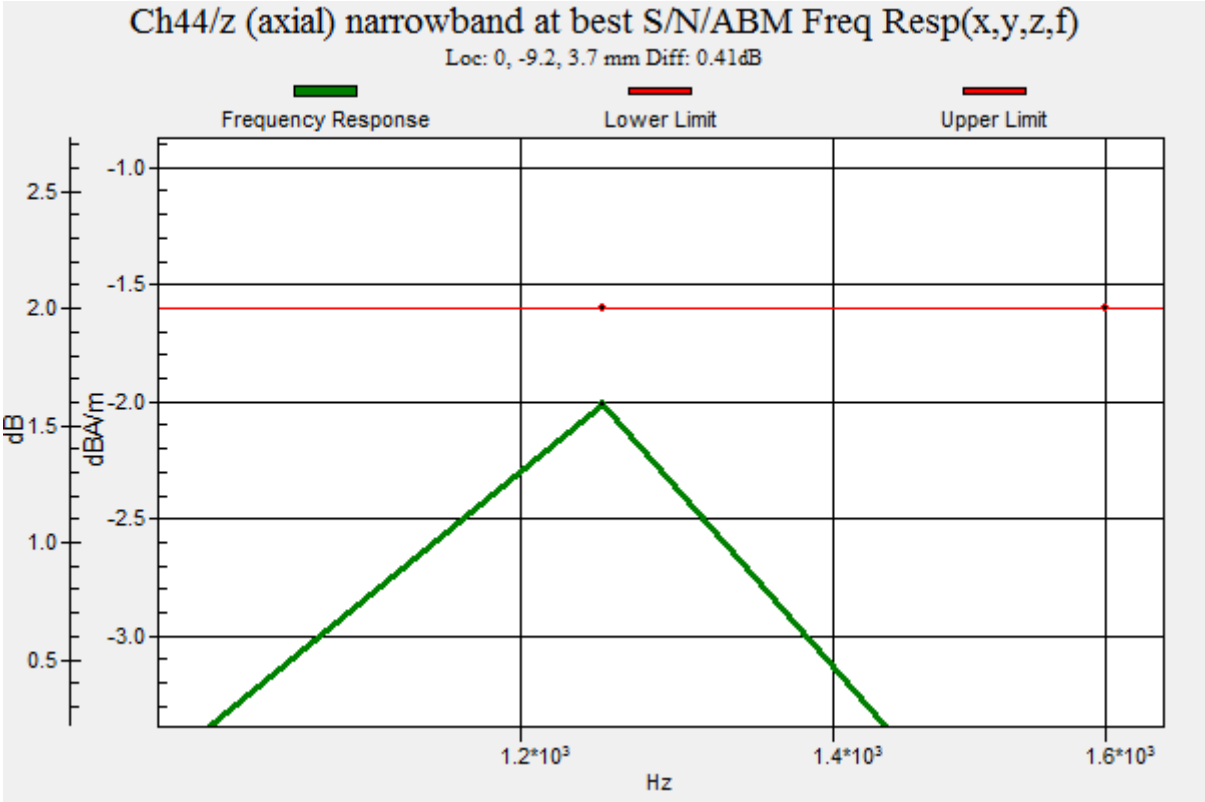
DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch44/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 44.46 dB
ABM1 comp = -3.69 dBA/m
BWC Factor = 0.15 dB
Location: 0, -9.2, 3.7 mm



0 dB = 167.0 = 44.45 dB


Ch44/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.41dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴


Ch44/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.41dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
1.2*10³
1.4*10³
1.6*10³

HAC_T-Coil_VoWiFi 5.2GHz_802.11a 6Mbps_AMR 4.75Kbps_Ch44_Y

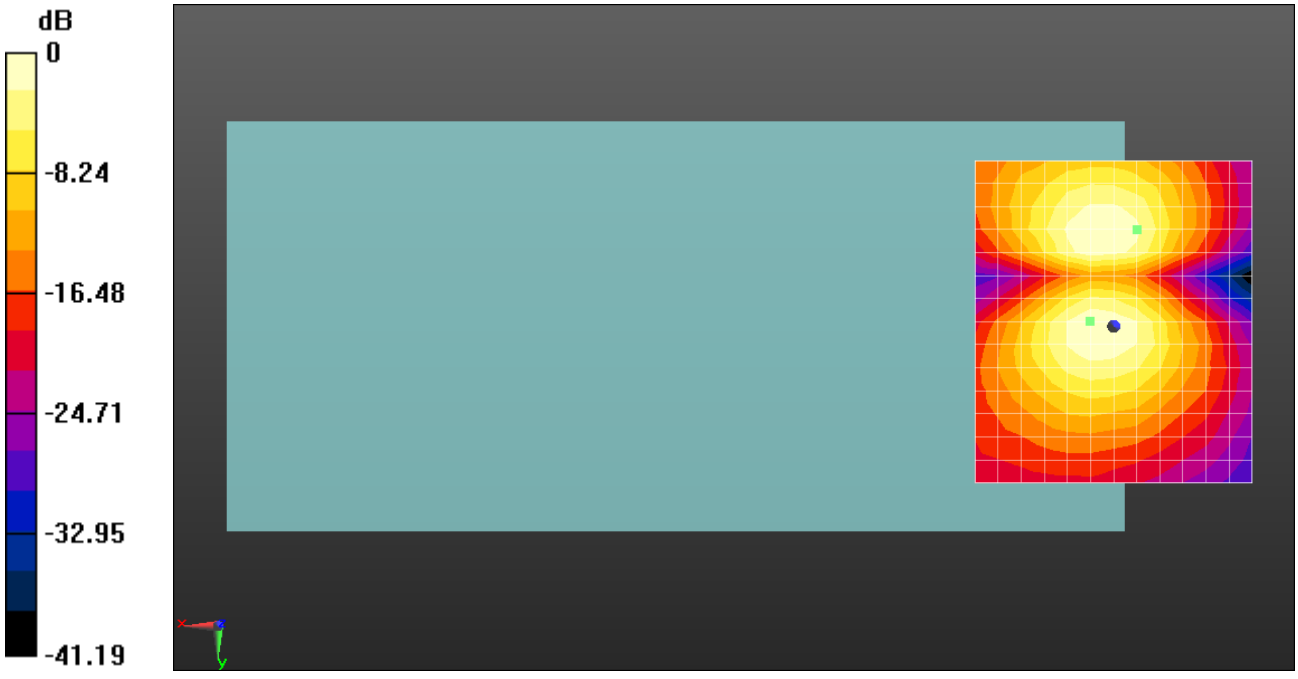
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5220 MHz;Duty Cycle: 1:6.85488

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch44/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.92 dB
ABM1 comp = -13.05 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 62.52 = 35.92 dB

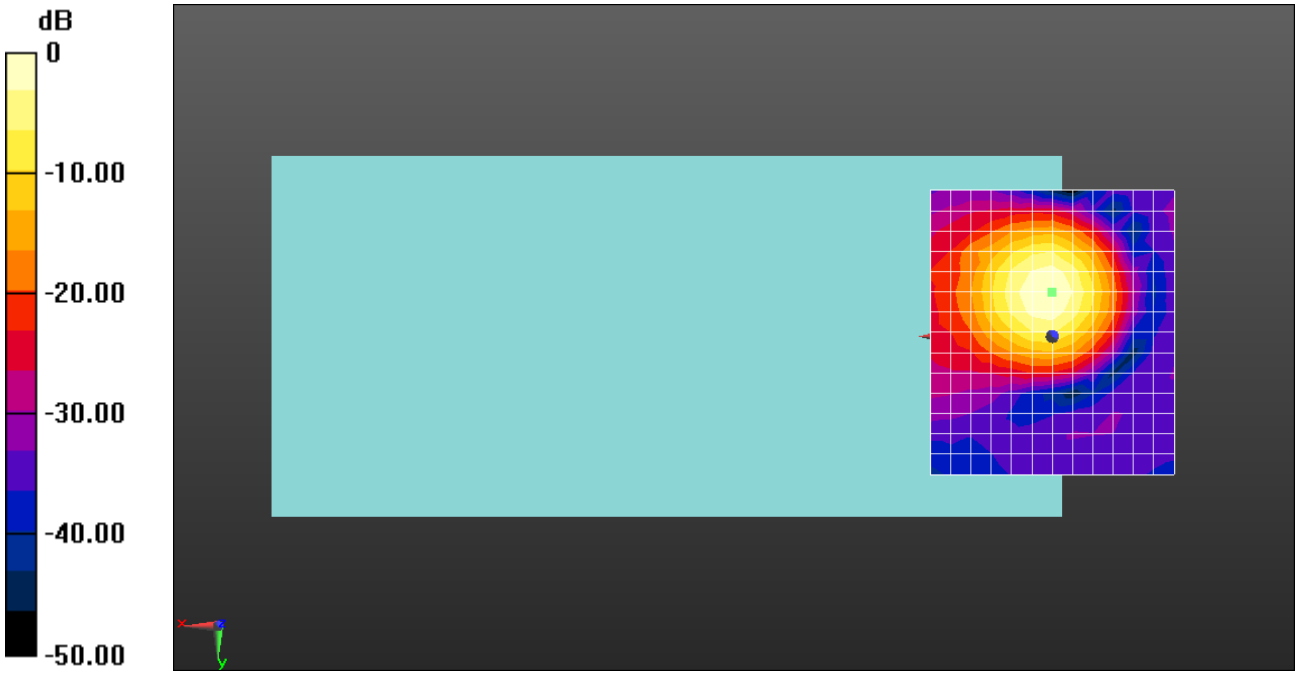
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 5.3GHz_802.11a 6Mbps_AMR 4.75Kbps_Ch60_Z

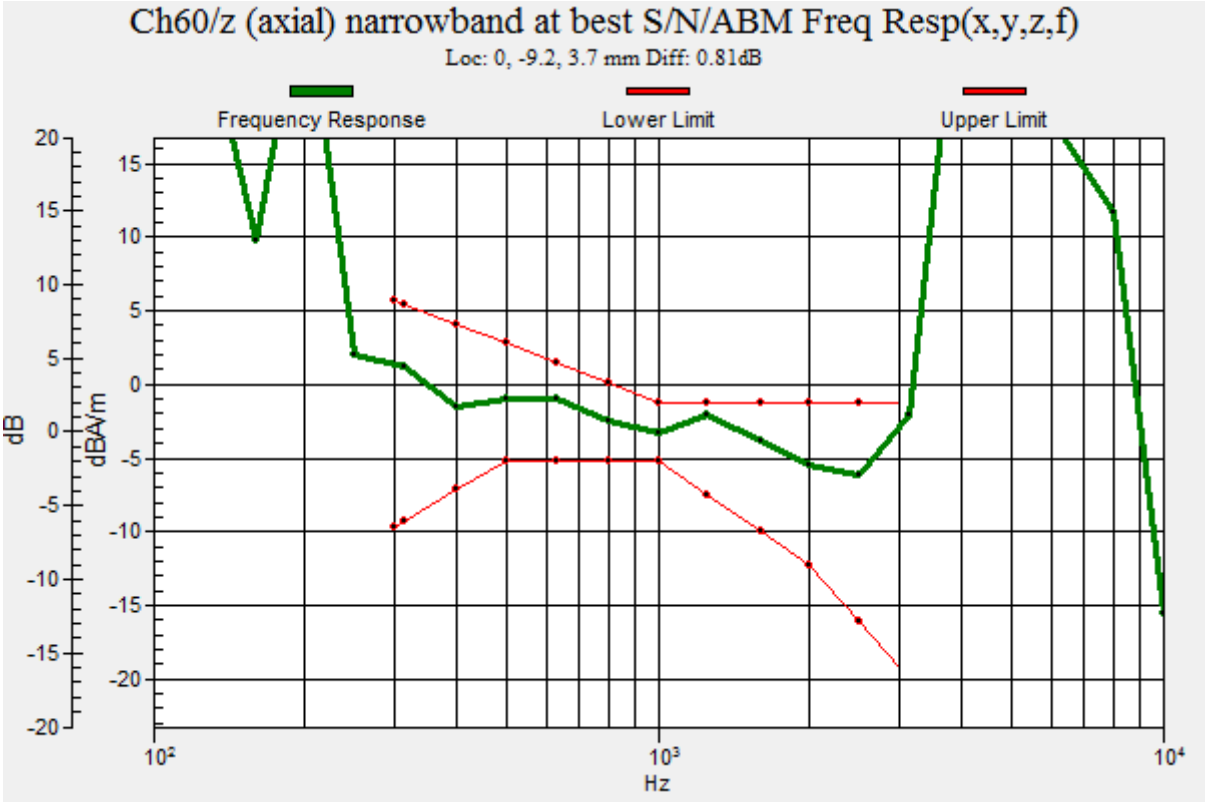
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5300 MHz;Duty Cycle: 1:6.85488
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch60/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 47.00 dB
ABM1 comp = -3.13 dBA/m
BWC Factor = 0.15 dB
Location: 0, -9.2, 3.7 mm



0 dB = 224.0 = 47.00 dB


Ch60/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.81dB
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

HAC_T-Coil_VoWiFi 5.3GHz_802.11a 6Mbps_AMR 4.75Kbps_Ch60_Y

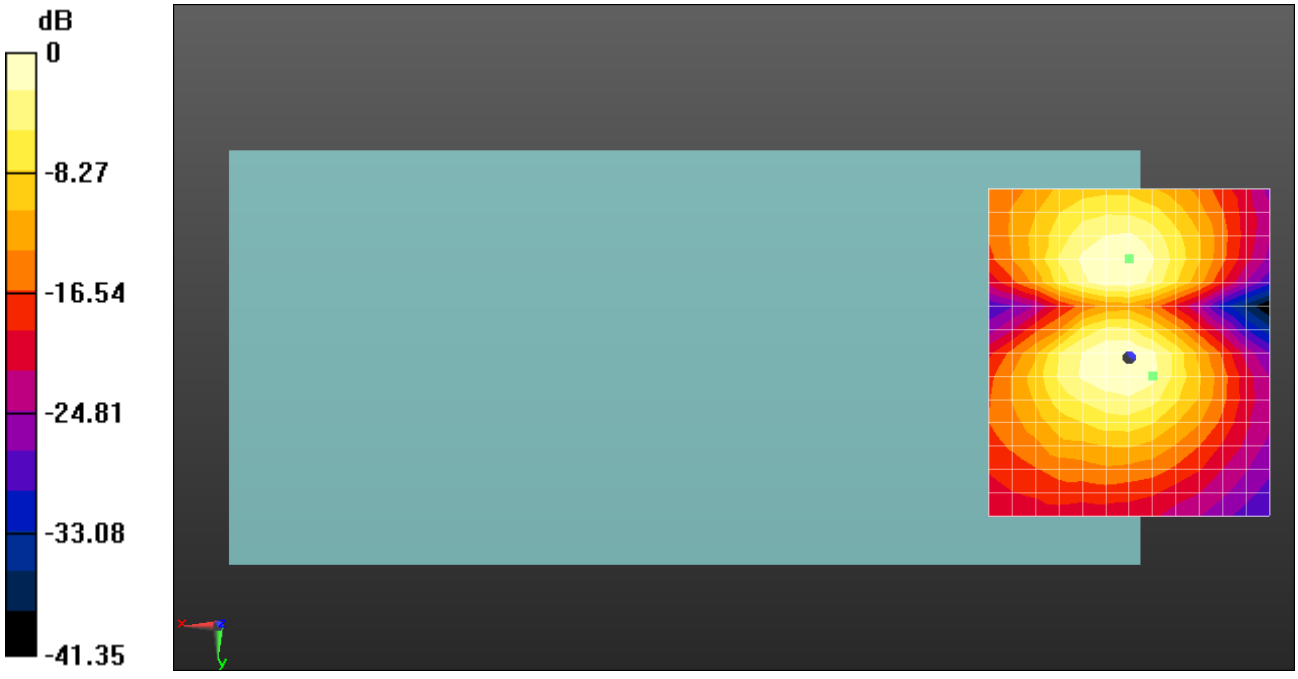
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5300 MHz;Duty Cycle: 1:6.85488

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch60/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 36.11 dB
ABM1 comp = -13.10 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 3.3, 3.7 mm



0 dB = 63.93 = 36.11 dB

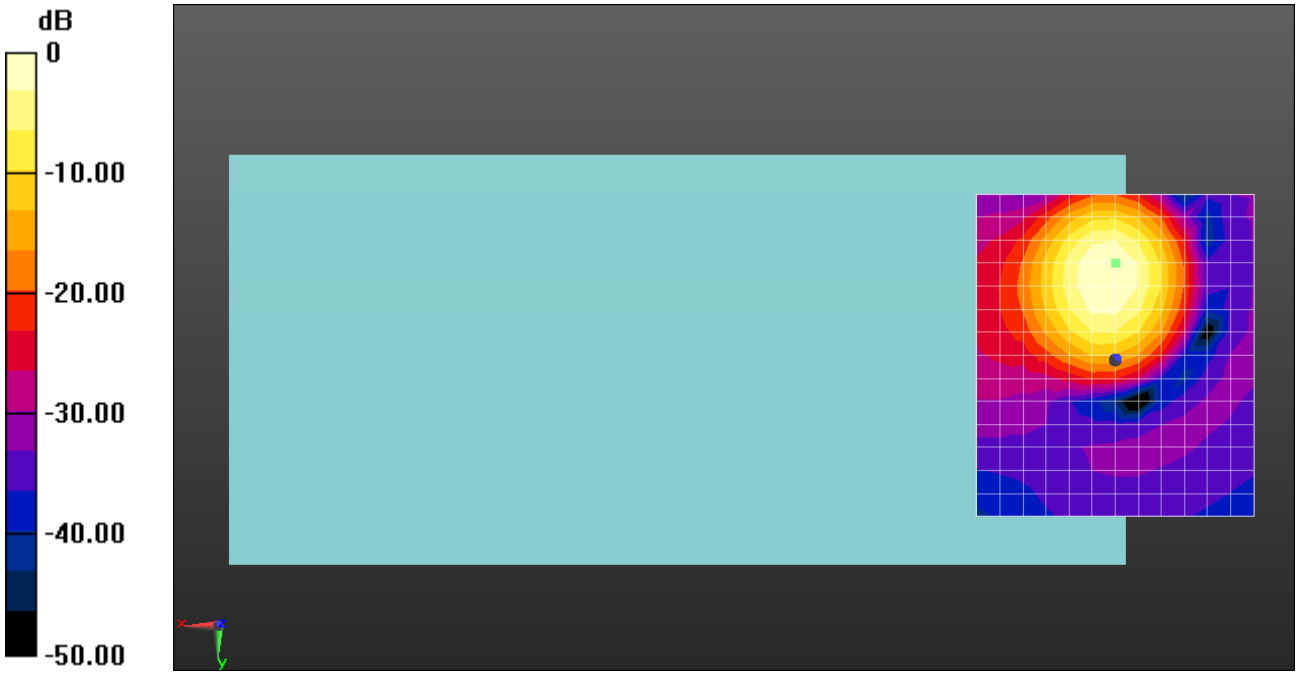
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 5.5GHz_802.11a 6Mbps_AMR 4.75Kbps_Ch120_Z

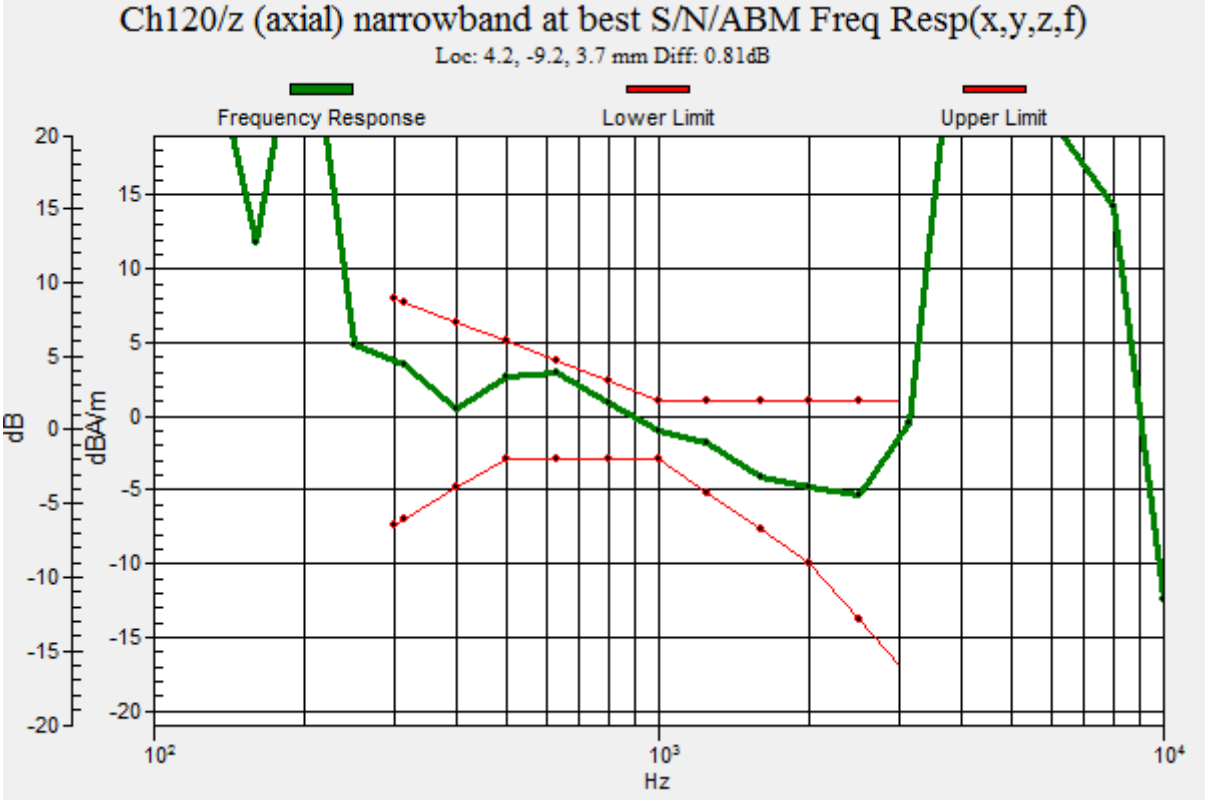
Communication System: UID 0, WLAN 5GHz (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch120/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 47.30 dB
ABM1 comp = -1.26 dBA/m
BWC Factor = 0.16 dB
Location: 0, -17.5, 3.7 mm



0 dB = 231.7 = 47.30 dB


Ch120/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 4.2, -9.2, 3.7 mm Diff: 0.81dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

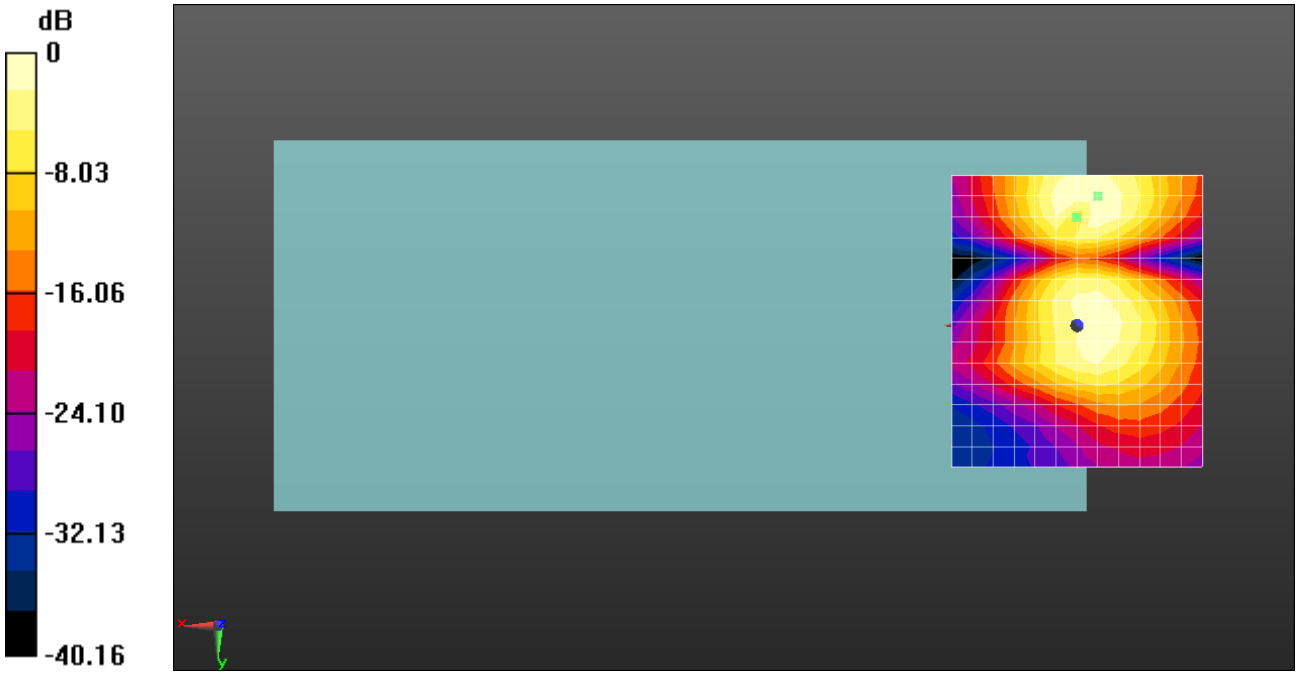
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 5.5GHz_802.11a 6Mbps_AMR 4.75Kbps_Ch120_Y

Communication System: UID 0, WLAN 5GHz (0); Frequency: 5600 MHz;Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch120/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 36.98 dB
ABM1 comp = -11.66 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -25.8, 3.7 mm



0 dB = 70.66 = 36.98 dB

HAC_T-Coil_VoWiFi 5.8GHz_802.11a 6Mbps_AMR 4.75Kbps_Ch157_Z

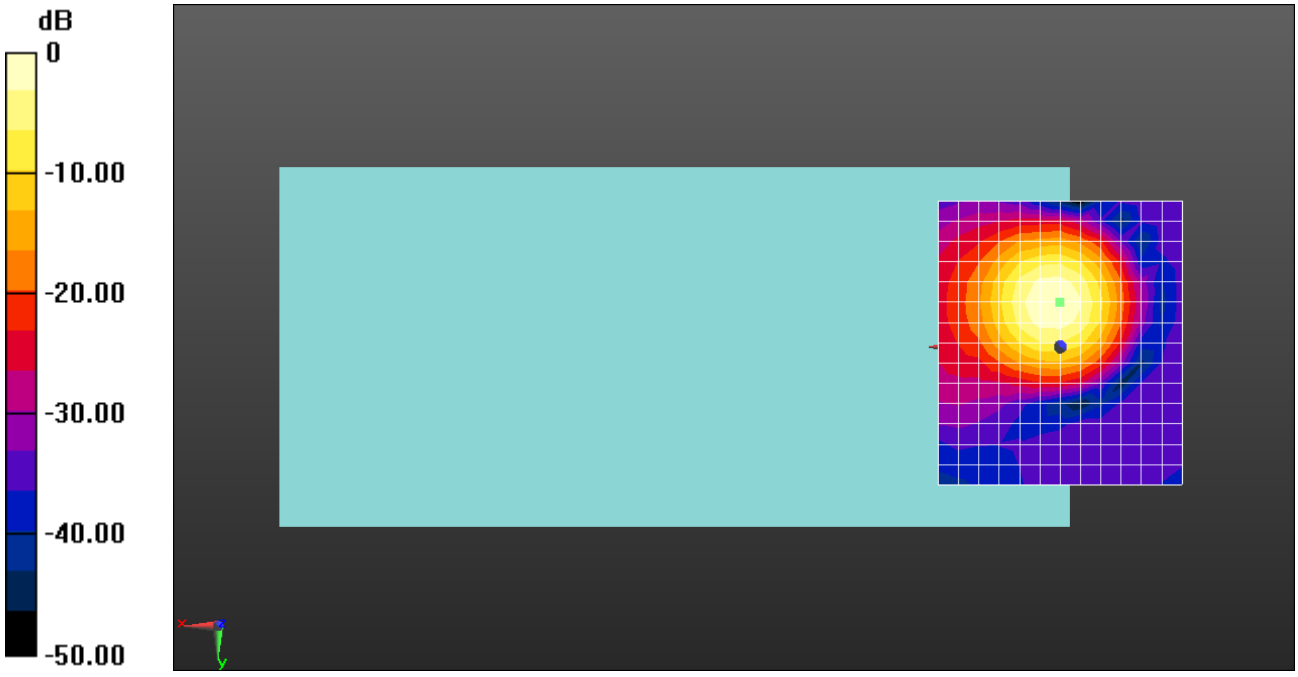
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5785 MHz;Duty Cycle: 1:6.85488

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

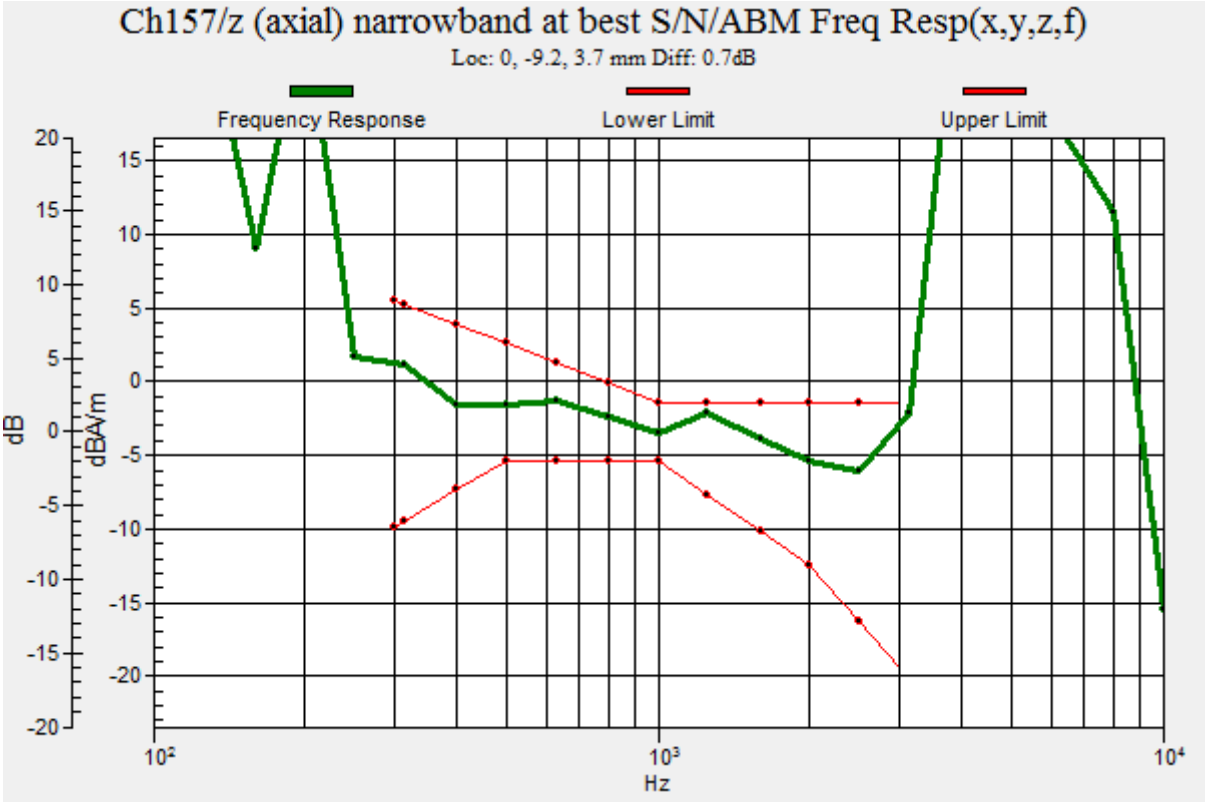
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch157/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 46.15 dB
ABM1 comp = -3.48 dBA/m
BWC Factor = 0.16 dB
Location: 0, -9.2, 3.7 mm



0 dB = 202.9 = 46.15 dB


Ch157/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.7dB
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

HAC_T-Coil_VoWiFi 5.8GHz_802.11a 6Mbps_AMR 4.75Kbps_Ch157_Y

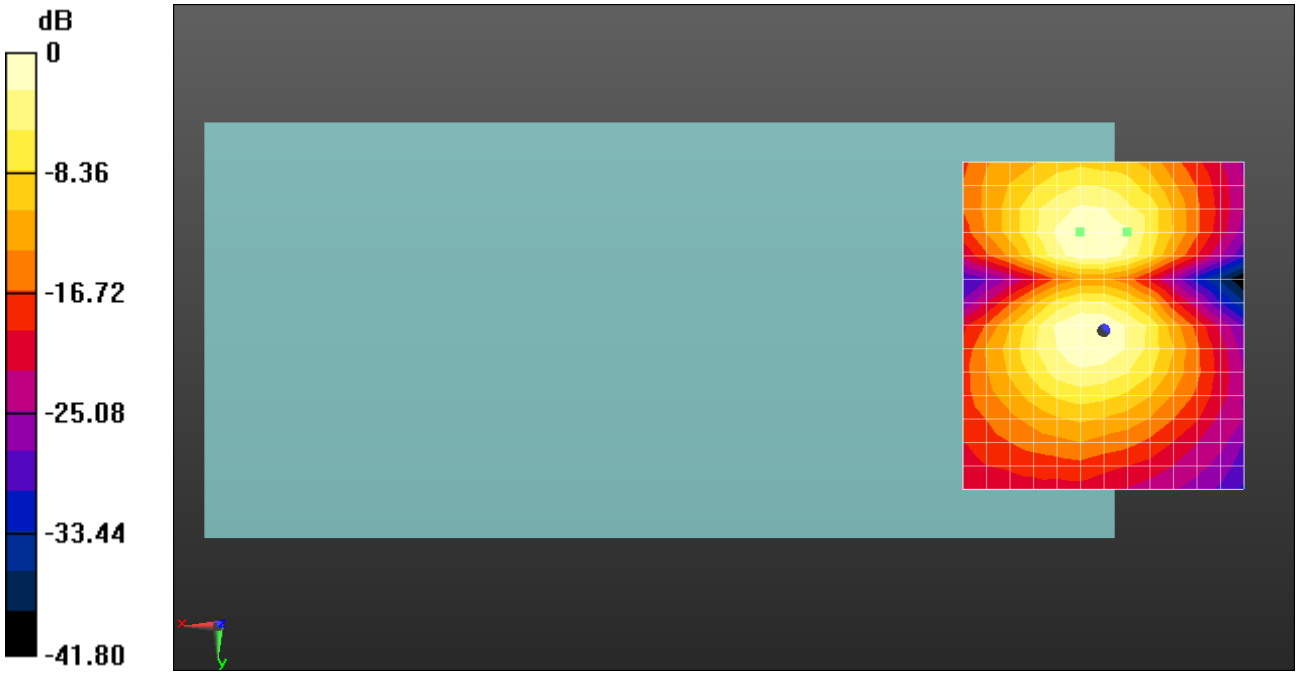
Communication System: UID 10317 - AAA, IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle); Frequency: 5785 MHz;Duty Cycle: 1:6.85488

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch157/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.97 dB
ABM1 comp = -13.23 dBA/m
BWC Factor = 0.16 dB
Location: -4.2, -17.5, 3.7 mm



0 dB = 62.87 = 35.97 dB

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 5.2GHz_802.11n-HT20 MCS0_AMR 4.75Kbps_Ch44_Z

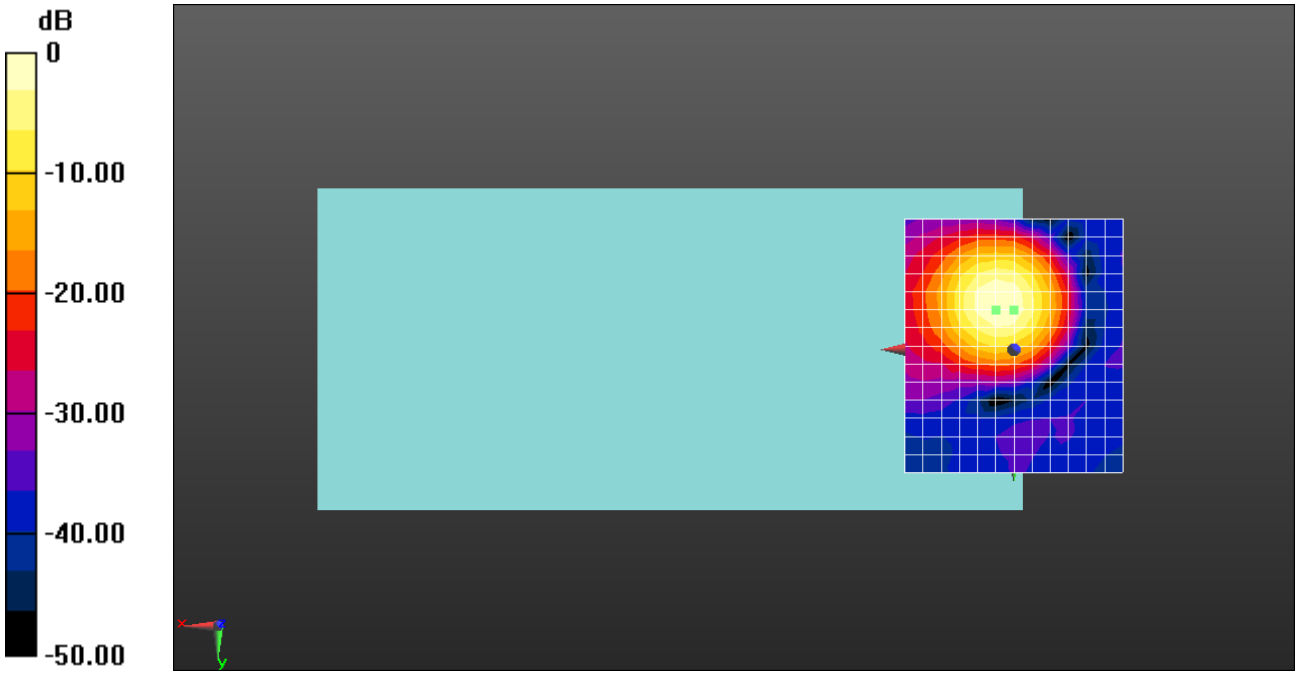
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 5220 MHz;Duty Cycle: 1:6.45654

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

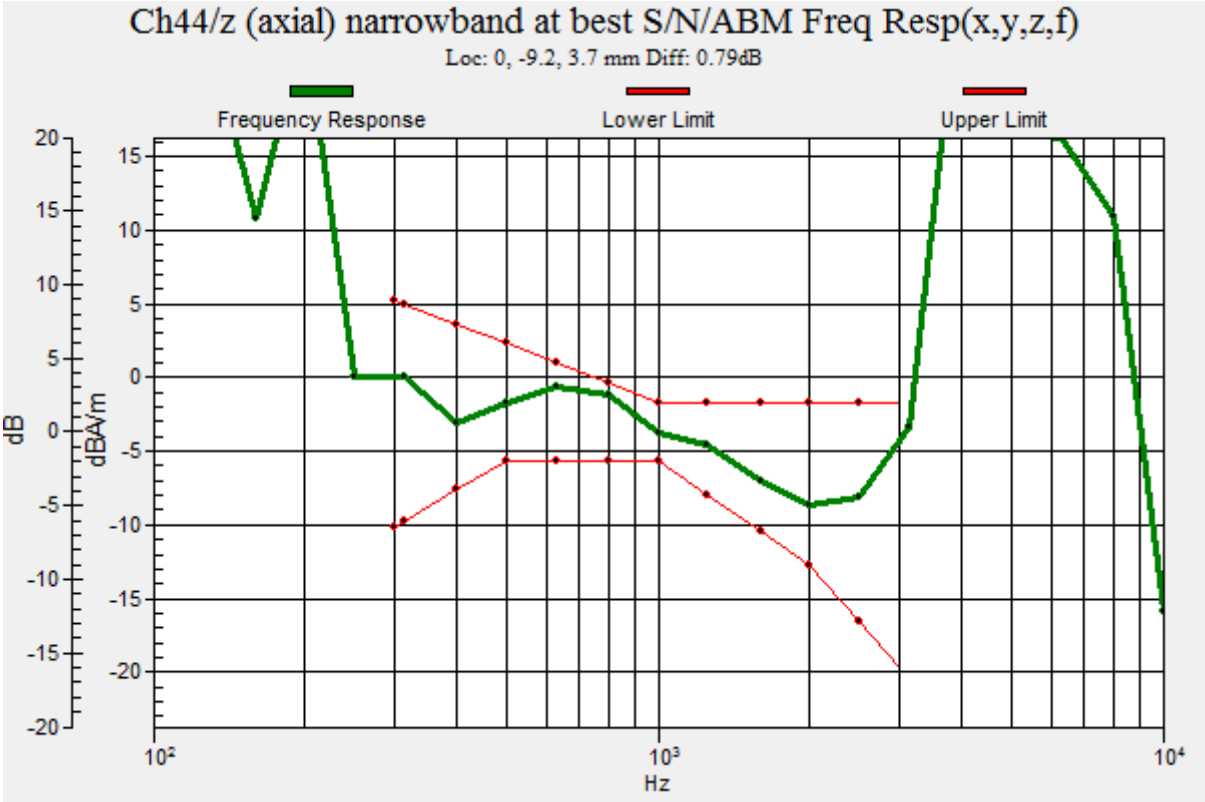
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch44/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 45.89 dB
ABM1 comp = -4.33 dBA/m
BWC Factor = 0.15 dB
Location: 0, -9.2, 3.7 mm



0 dB = 197.1 = 45.89 dB


Ch44/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.79dB
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

HAC_T-Coil_VoWiFi 5.2GHz_802.11n-HT20 MCS0_AMR 4.75Kbps_Ch44_Y

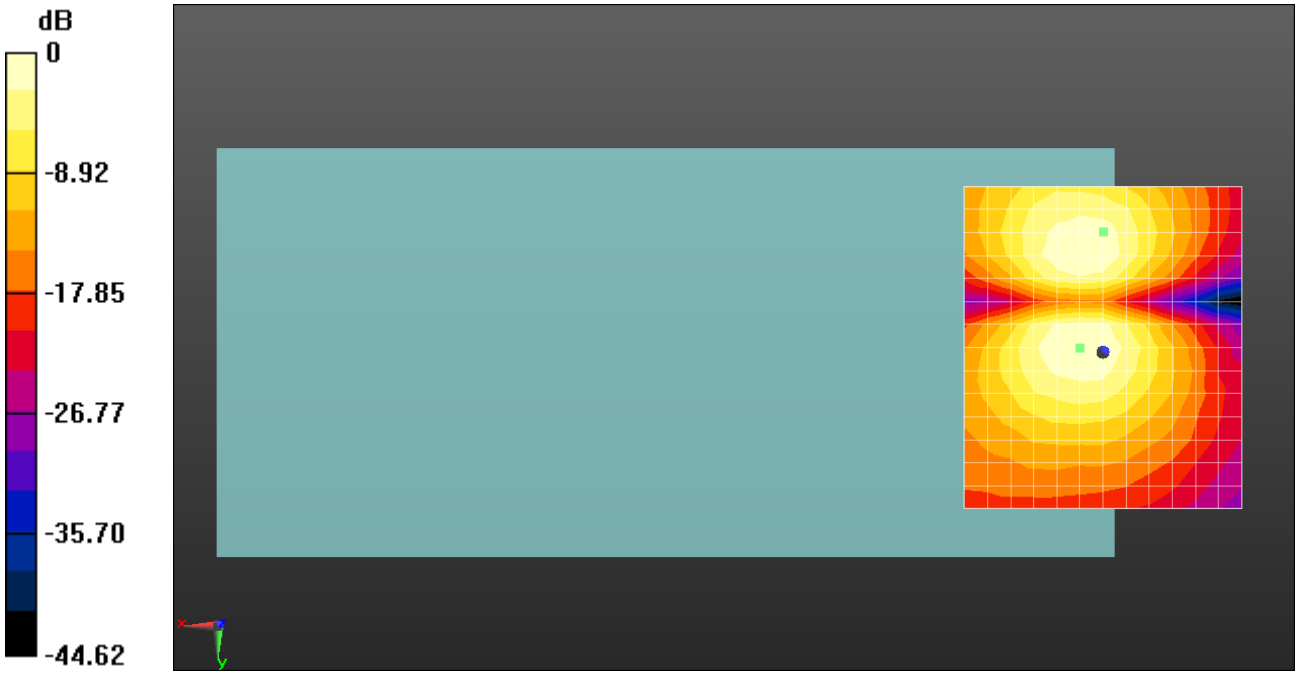
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 5220 MHz;Duty Cycle: 1:6.45654

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch44/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.84 dB
ABM1 comp = -12.47 dBA/m
BWC Factor = 0.15 dB
Location: 0, -21.7, 3.7 mm



0 dB = 61.92 = 35.84 dB

Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 5.2GHz_802.11n-HT40 MCS0_AMR 4.75Kbps_Ch46_Z

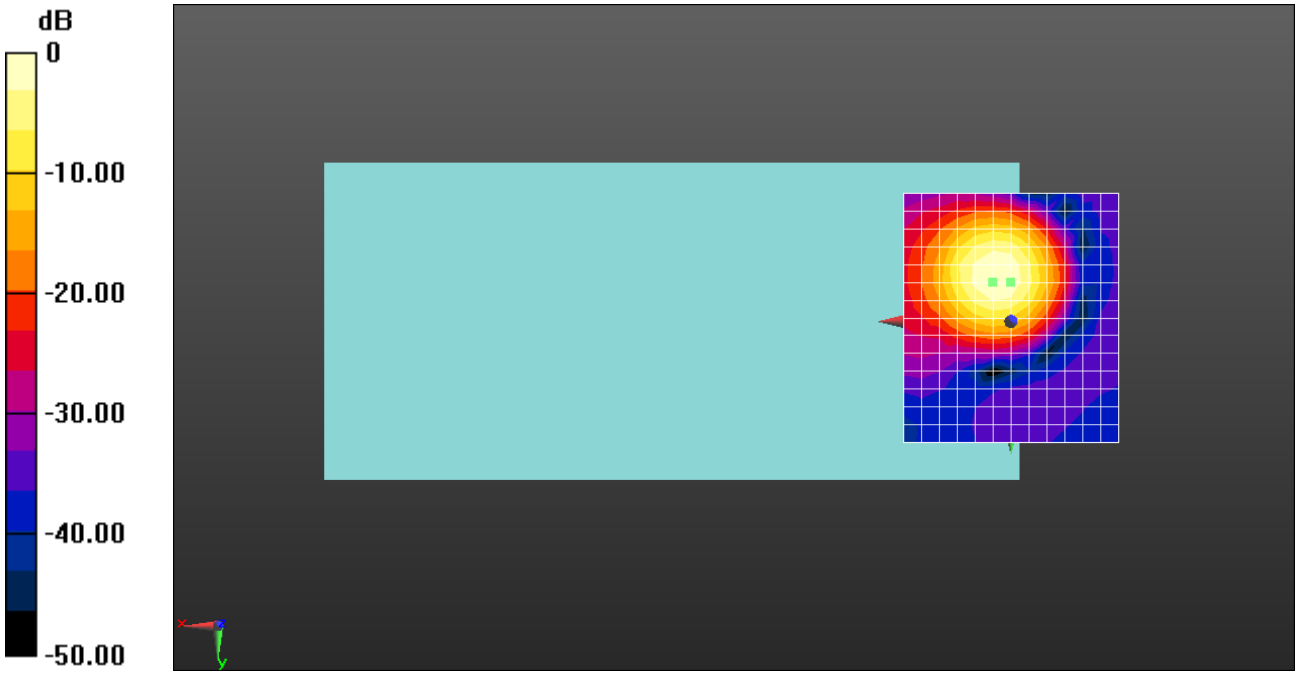
Communication System: UID 10194 - CAA, IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM); Frequency: 5230 MHz;Duty Cycle: 1:6.48634

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

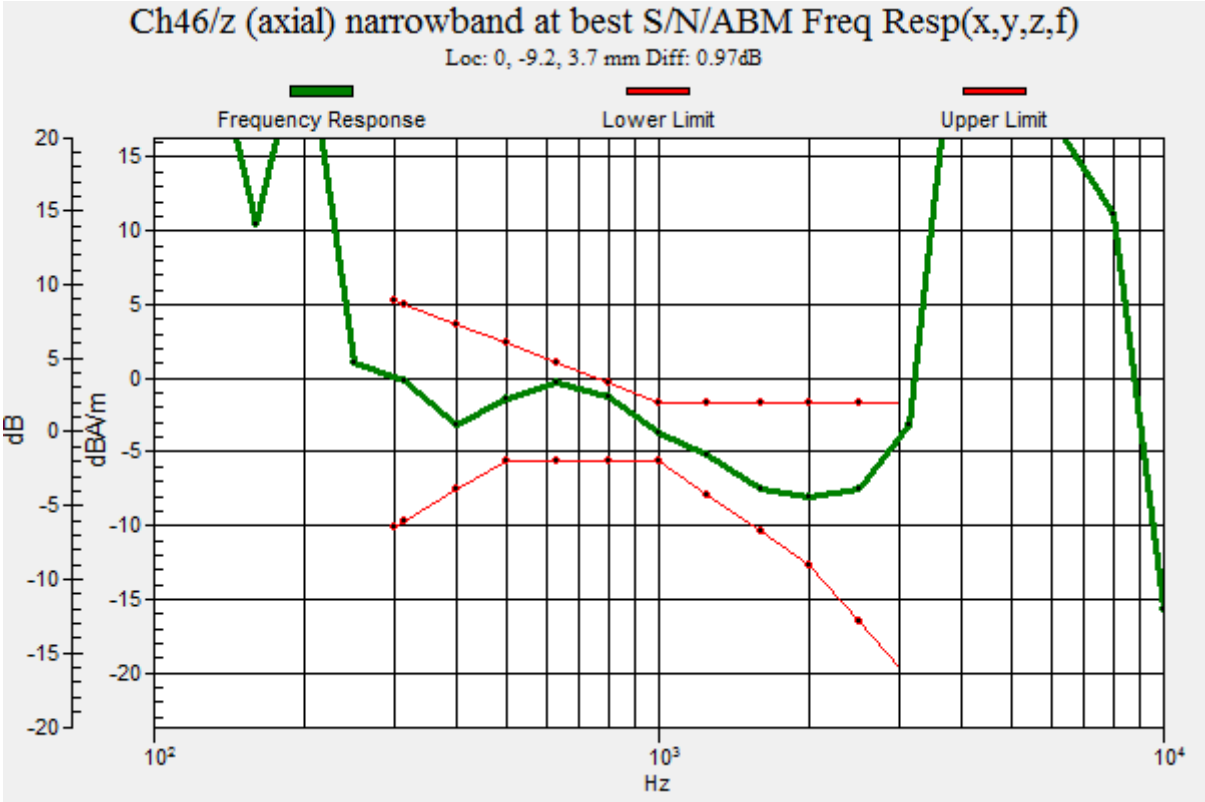
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch46/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 44.95 dB
ABM1 comp = -4.51 dBA/m
BWC Factor = 0.15 dB
Location: 0, -9.2, 3.7 mm



0 dB = 176.8 = 44.95 dB


Ch46/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.97dB
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

HAC_T-Coil_VoWiFi 5.2GHz_802.11n-HT40 MCS0_AMR 4.75Kbps_Ch46_Y

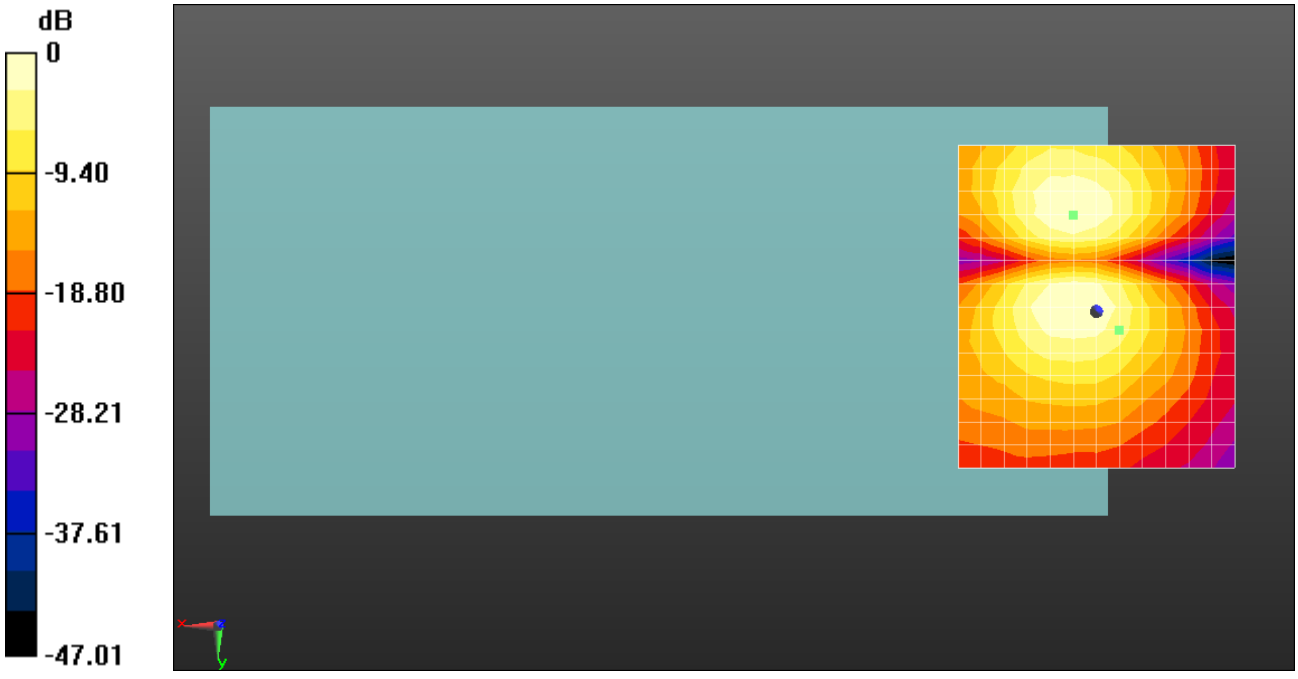
Communication System: UID 10194 - CAA, IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM); Frequency: 5230 MHz;Duty Cycle: 1:6.48634

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch46/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.29 dB
ABM1 comp = -15.94 dBA/m
BWC Factor = 0.15 dB
Location: -4.2, 3.3, 3.7 mm



0 dB = 58.17 = 35.29 dB

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT20 MCS0_AMR 4.75Kbps_Ch44_Z

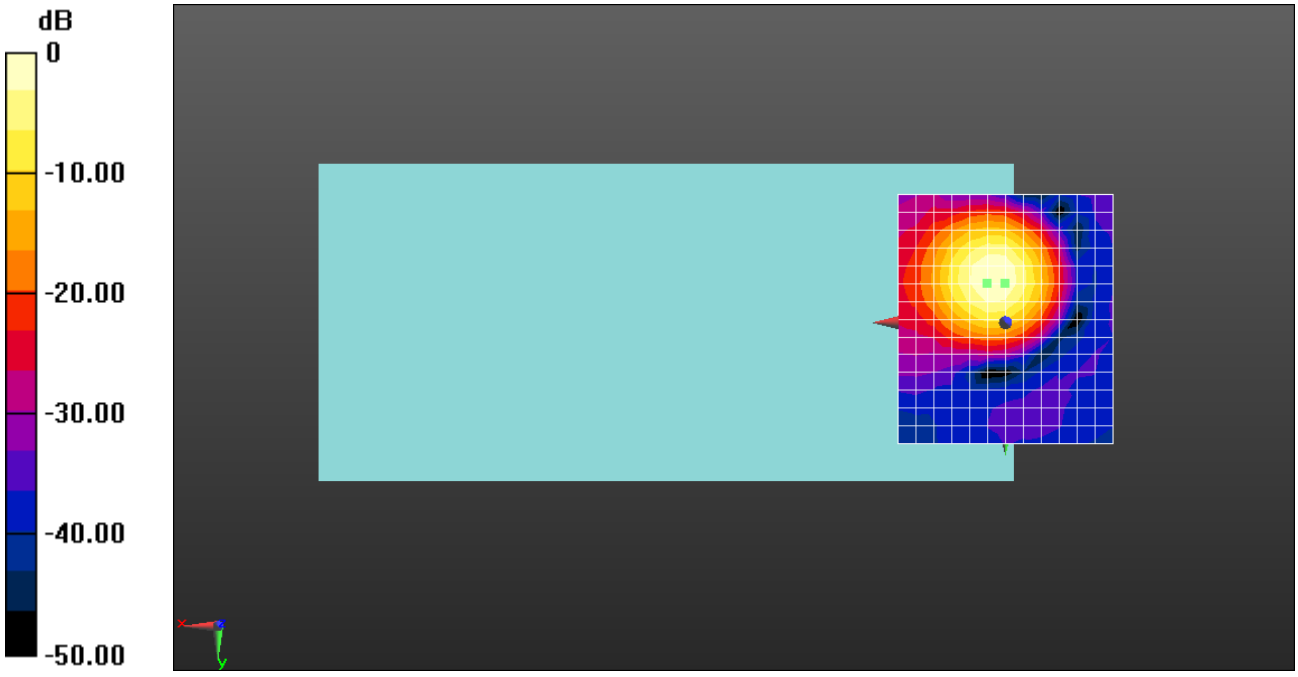
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 5220 MHz;Duty Cycle: 1:6.45654

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

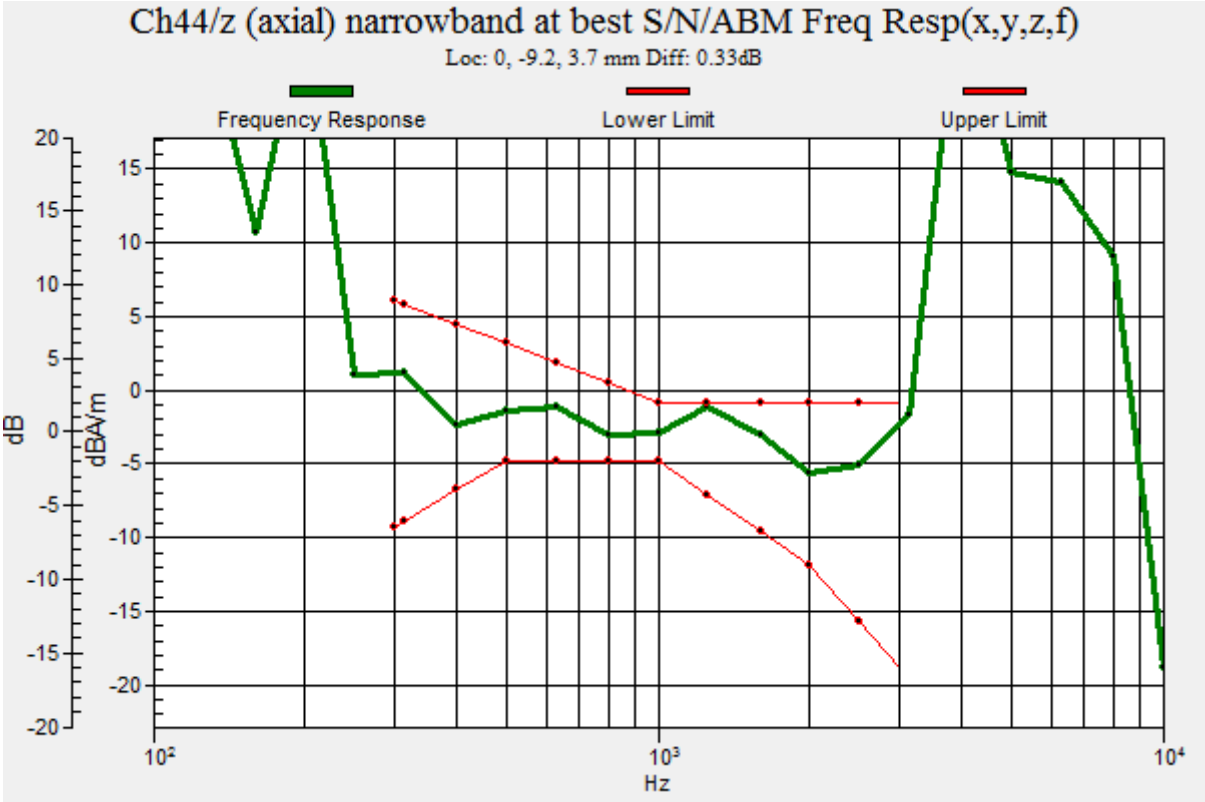
Ambient Temperature：23.2 ℃

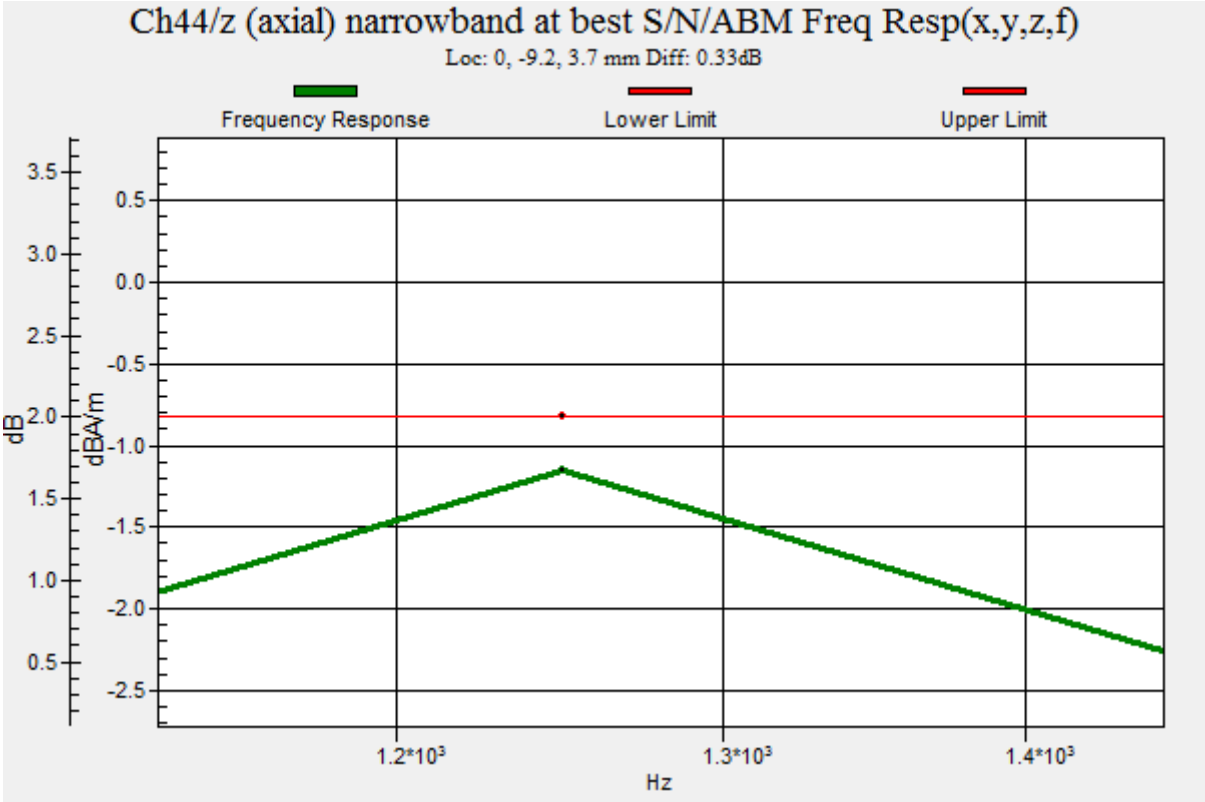
DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch44/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 45.53 dB
ABM1 comp = -3.90 dBA/m
BWC Factor = 0.15 dB
Location: 0, -9.2, 3.7 mm



0 dB = 189.1 = 45.53 dB


Ch44/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.33dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
10²
10³
10⁴


Ch44/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.33dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz
1.2*10³
1.3*10³
1.4*10³

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT20 MCS0_AMR 4.75Kbps_Ch44_Y

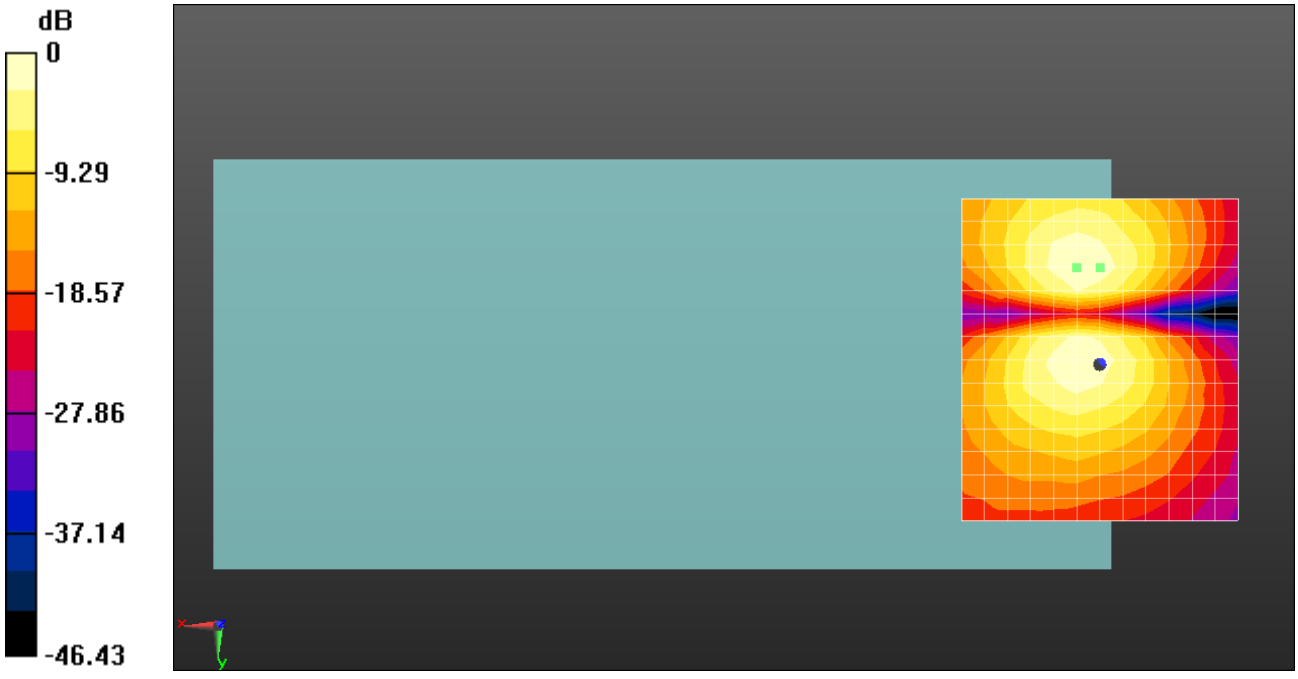
Communication System: UID 10114 - CAA, IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK); Frequency: 5220 MHz;Duty Cycle: 1:6.45654

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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch44/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.04 dB
ABM1 comp = -11.70 dBA/m
BWC Factor = 0.15 dB
Location: 0, -17.5, 3.7 mm



0 dB = 56.47 = 35.04 dB

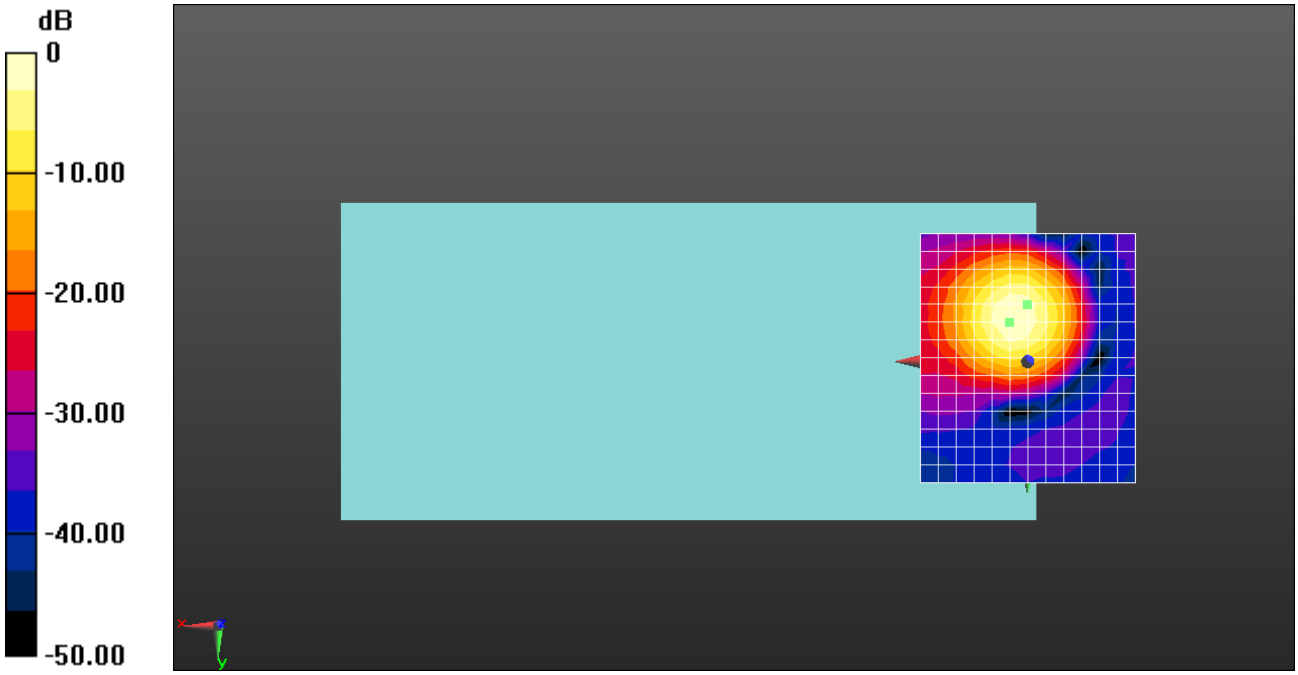
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT40 MCS0_AMR 4.75Kbps_Ch46_Z

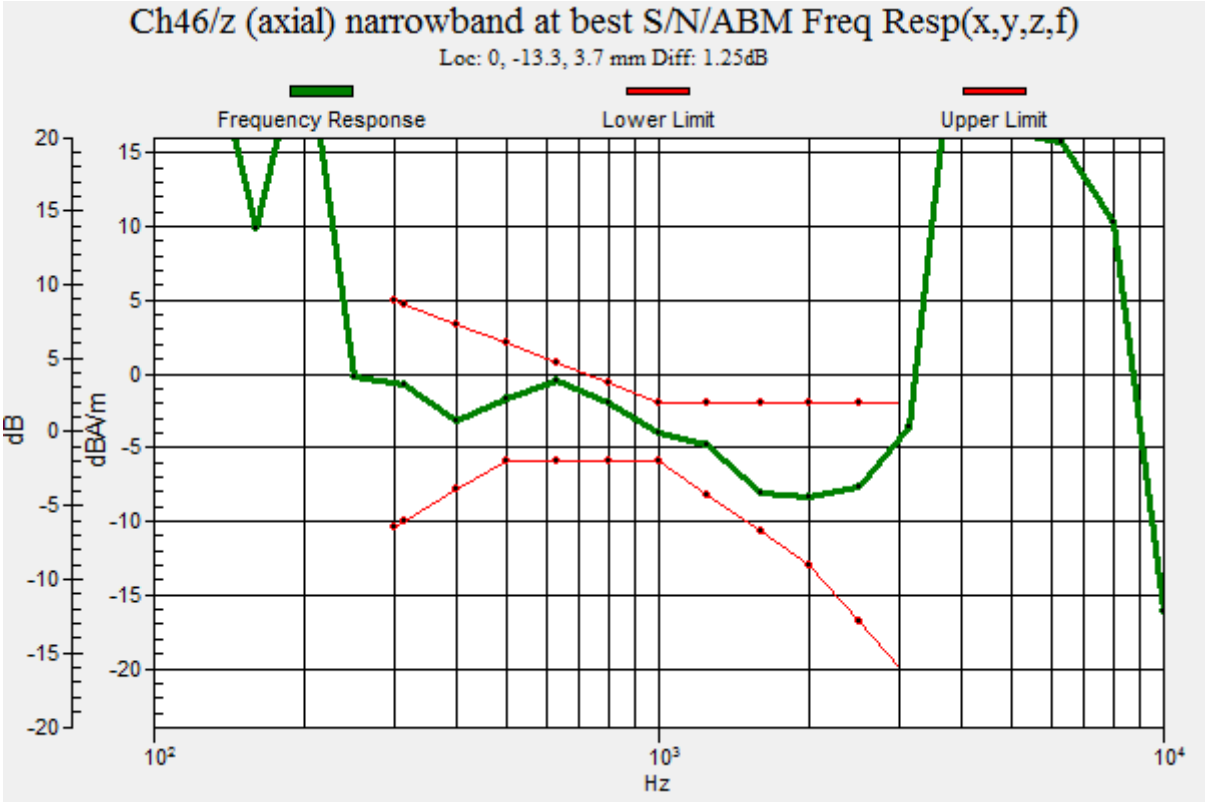
Communication System: UID 10400 - AAA, IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle); Frequency: 5230 MHz;Duty Cycle: 1:6.87068
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch46/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 45.77 dB
ABM1 comp = -4.74 dBA/m
BWC Factor = 0.16 dB
Location: 0, -13.3, 3.7 mm



0 dB = 194.3 = 45.77 dB


Ch46/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -13.3, 3.7 mm Diff: 1.25dB
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

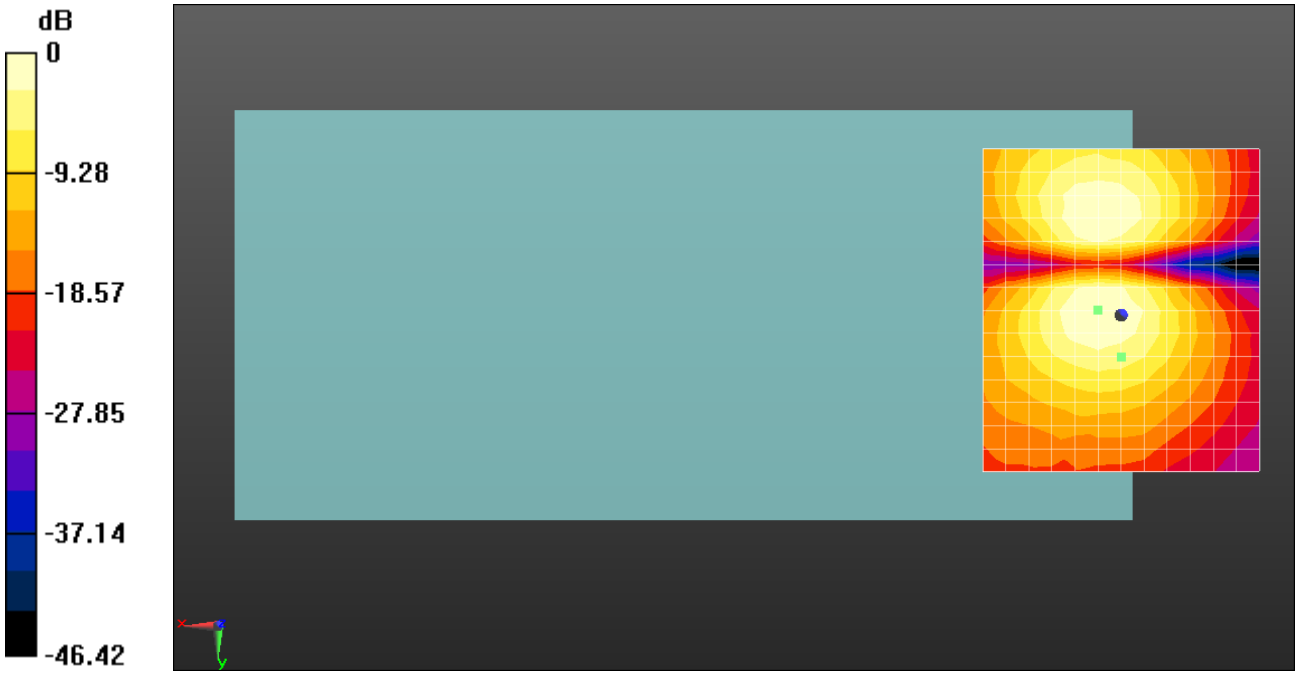
Test Laboratory: Shenzhen Morlab Communications Technology Co., Ltd. Date: 2023.11.16

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT40 MCS0_AMR 4.75Kbps_Ch46_Y

Communication System: UID 10400 - AAA, IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle);
Frequency: 5230 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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch46/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 34.74 dB
ABM1 comp = -16.08 dBA/m
BWC Factor = 0.16 dB
Location: 0, 7.5, 3.7 mm



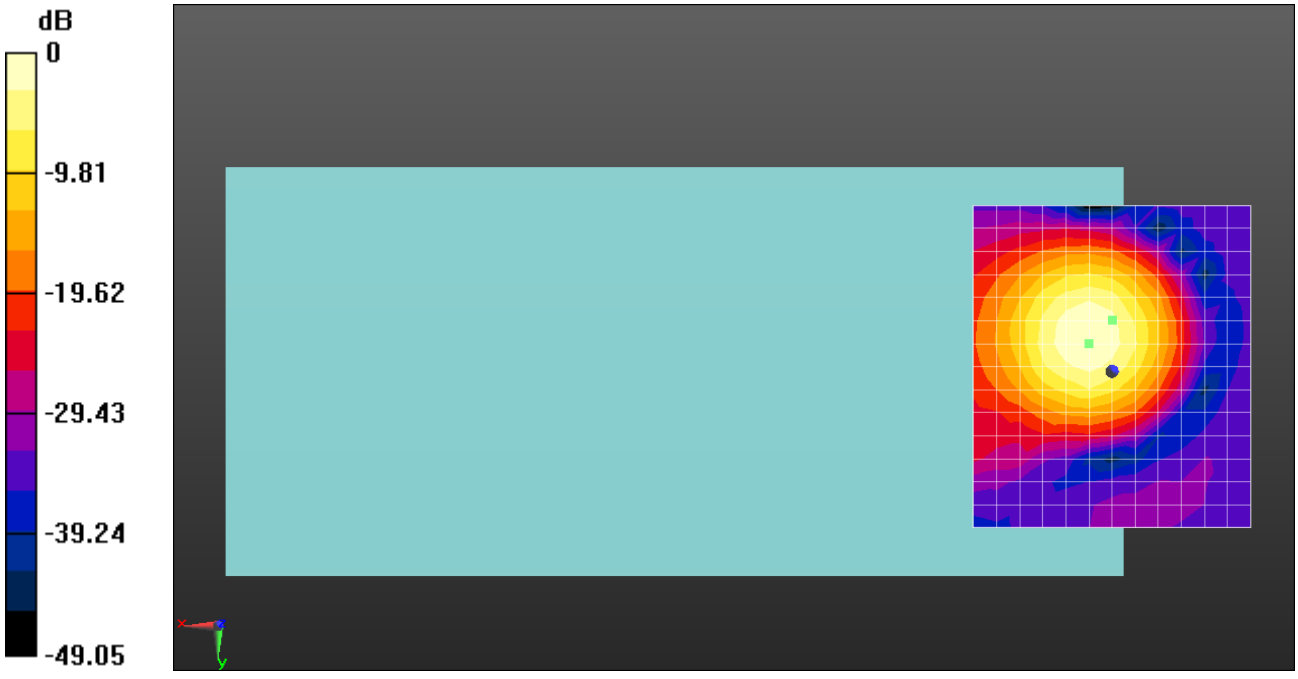
0 dB = 54.58 = 34.74 dB

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT80 MCS0_AMR 4.75Kbps_Ch42_Z

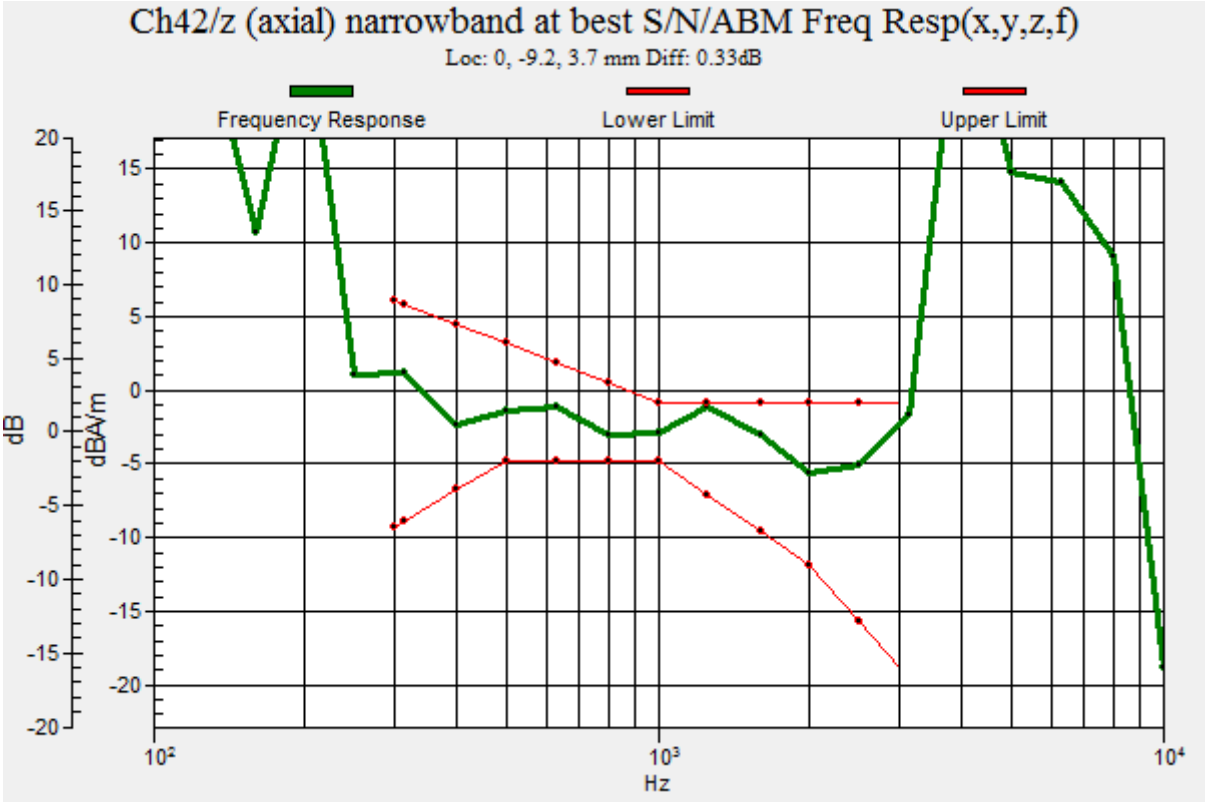
Communication System: UID 10402 - AAA, IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle); Frequency: 5210 MHz;Duty Cycle: 1:7.12853
Medium: Air Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3
Ambient Temperature：23.2 ℃

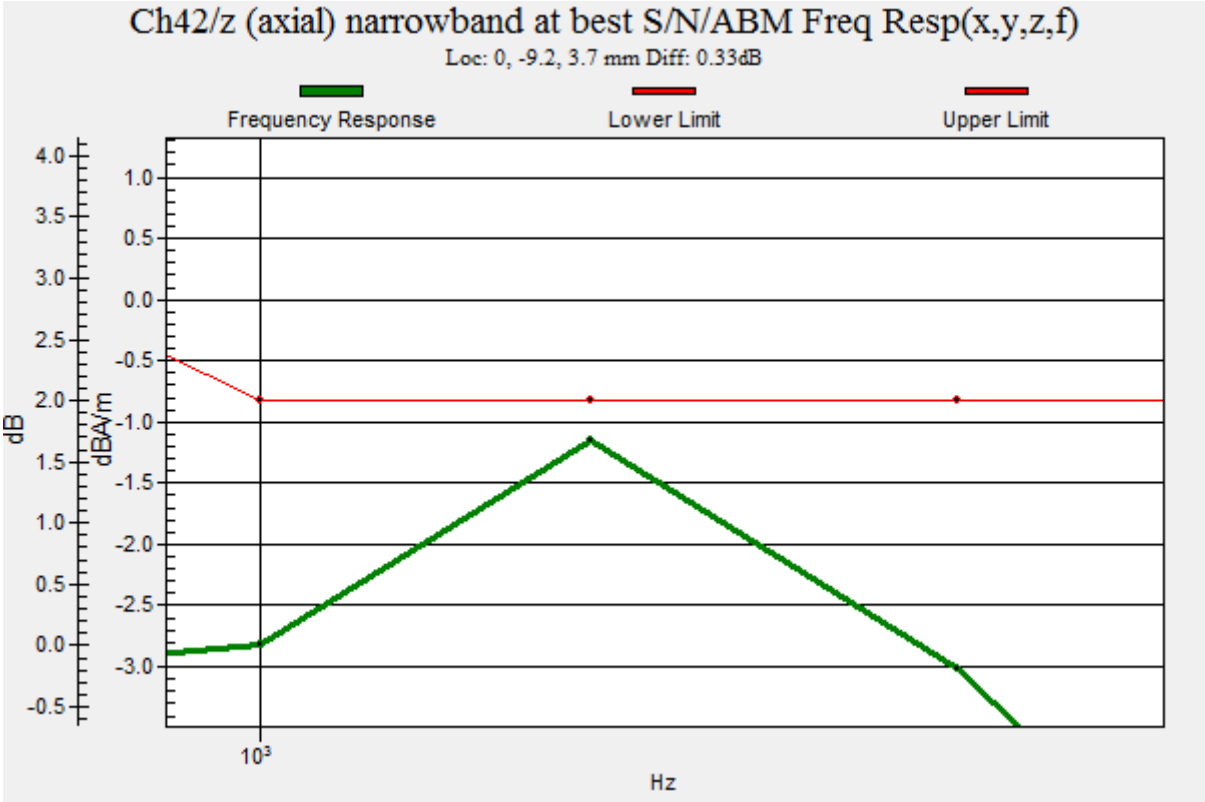
DASY5 Configuration:
- Probe: AM1DV3 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Ch42/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 41.15 dB
ABM1 comp = -5.92 dBA/m
BWC Factor = 0.16 dB
Location: 0, -9.2, 3.7 mm



0 dB = 114.1 = 41.15 dB


Ch42/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.33dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

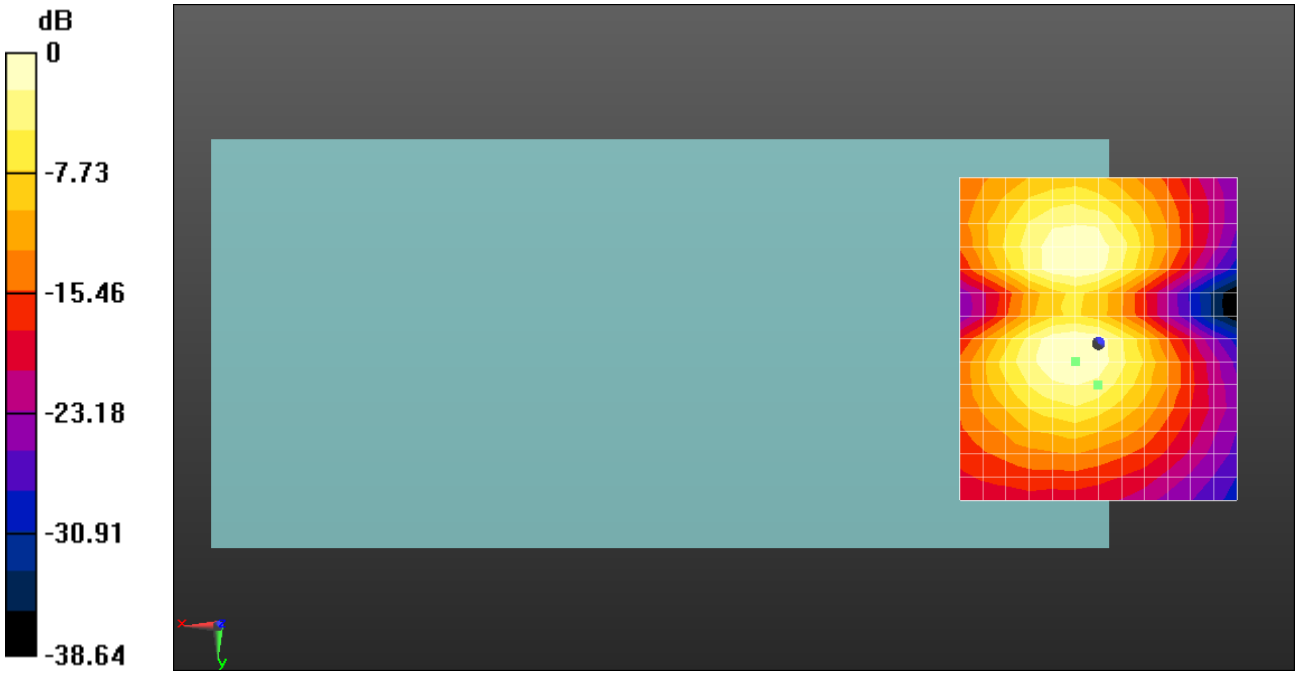

Ch42/z (axial) narrowband at best S/N/ABM Freq Resp(x,y,z,f)
Loc: 0, -9.2, 3.7 mm Diff: 0.33dB
Frequency Response
Lower Limit
Upper Limit
dB
dBA/m
Hz

HAC_T-Coil_VoWiFi 5.2GHz_802.11ac-VHT80 MCS0_AMR 4.75Kbps_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 - 1048; ; Calibrated: 2023.6.13
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2023.9.19
- 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)

Ch42/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x15x1): Measurement grid: dx=10mm, dy=10mm
ABM1/ABM2 = 35.32 dB
ABM1 comp = -13.47 dBA/m
BWC Factor = 0.16 dB
Location: 0, 7.5, 3.7 mm



0 dB = 58.33 = 35.32 dB