

### 12\_HAC T-Coil\_LTE Band 38\_20M\_16QAM\_1RB\_0Offset\_Ch38000(Y)

Communication System: UID 0, LTE-TDD (0); Frequency: 2595 MHz;Duty Cycle: 1:1.59

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

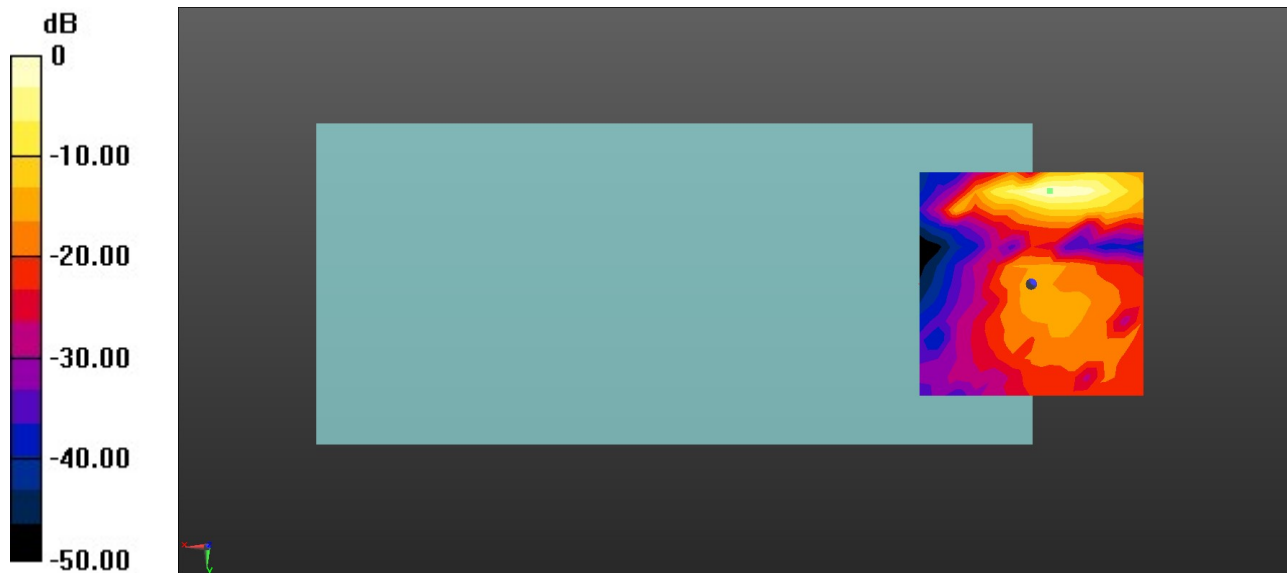
#### Ch38000/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 33.78 dB

ABM1 comp = -11.51 dBA/m

Location: -4.2, -20.8, 3.7 mm



0 dB = 38.80 = 31.78 dB

### 13\_HAC T-Coil\_LTE Band 41\_20M\_16QAM\_1RB\_0Offset\_Ch40620(Z)

Communication System: UID 0, LTE-TDD (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

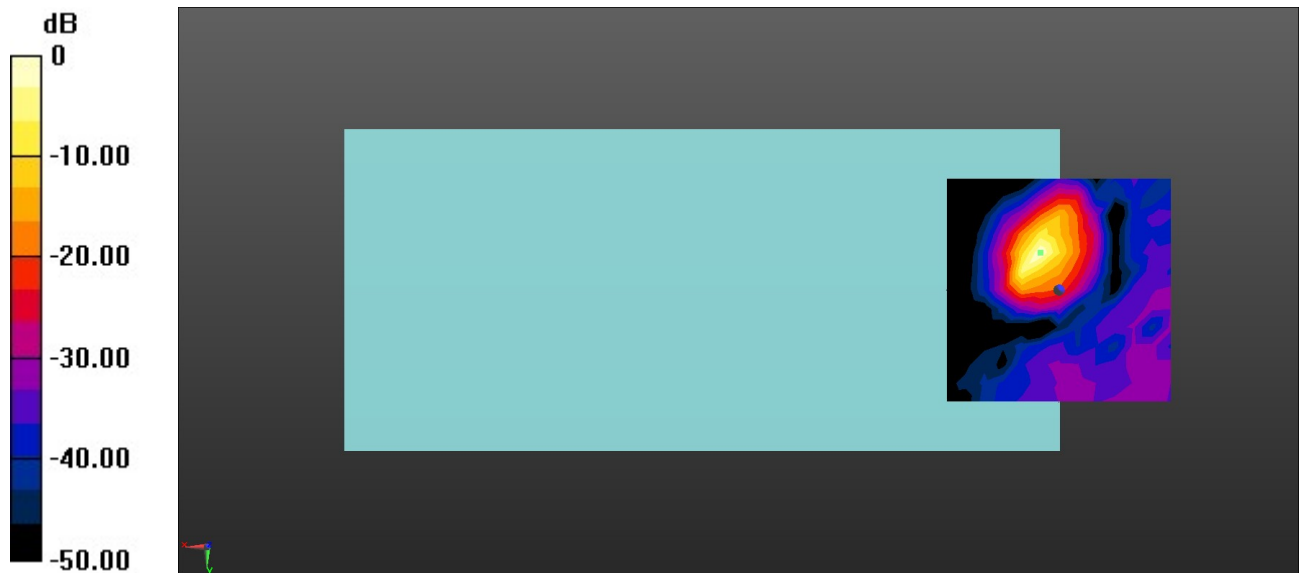
#### Ch40620/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 41.44 dB

ABM1 comp = 3.55 dBA/m

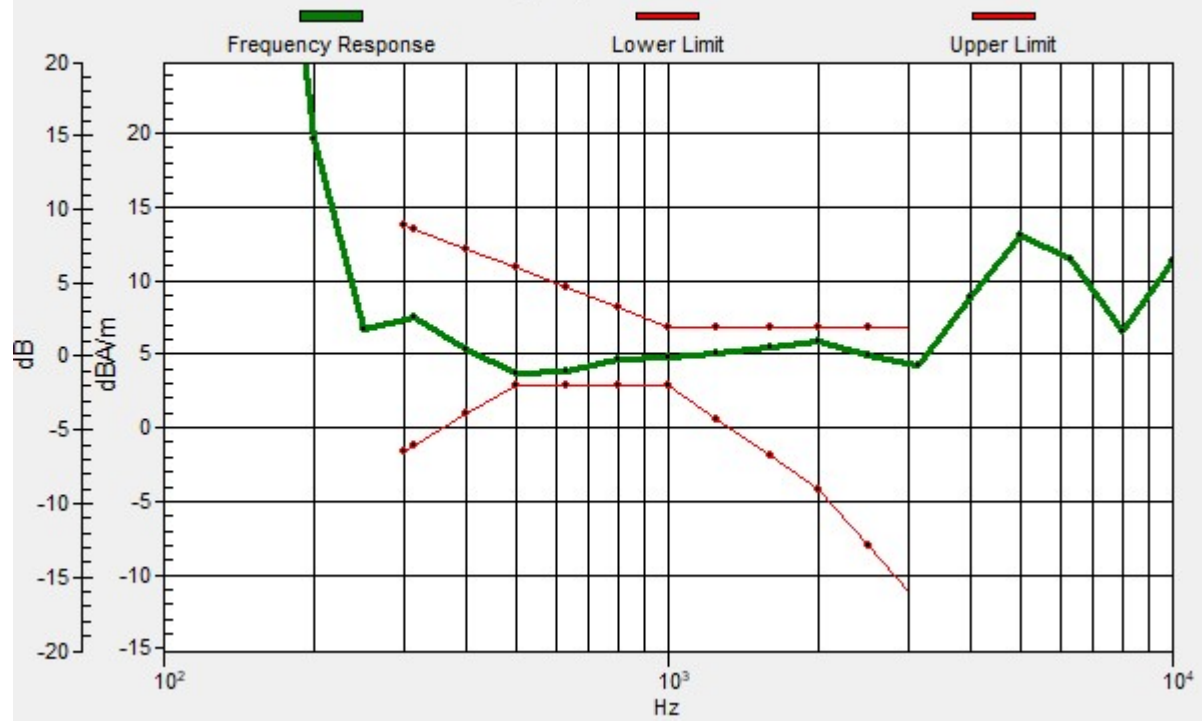
Location: 4.2, -8.3, 3.7 mm



0 dB = 118.1 = 41.44 dB

# Ch40620/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 4.2, -8.3, 3.7 mm Diff: 0.81dB



### 13\_HAC T-Coil\_LTE Band 41\_20M\_16QAM\_1RB\_0Offset\_Ch40620(Y)

Communication System: UID 0, LTE-TDD (0); Frequency: 2593 MHz;Duty Cycle: 1:1.59

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

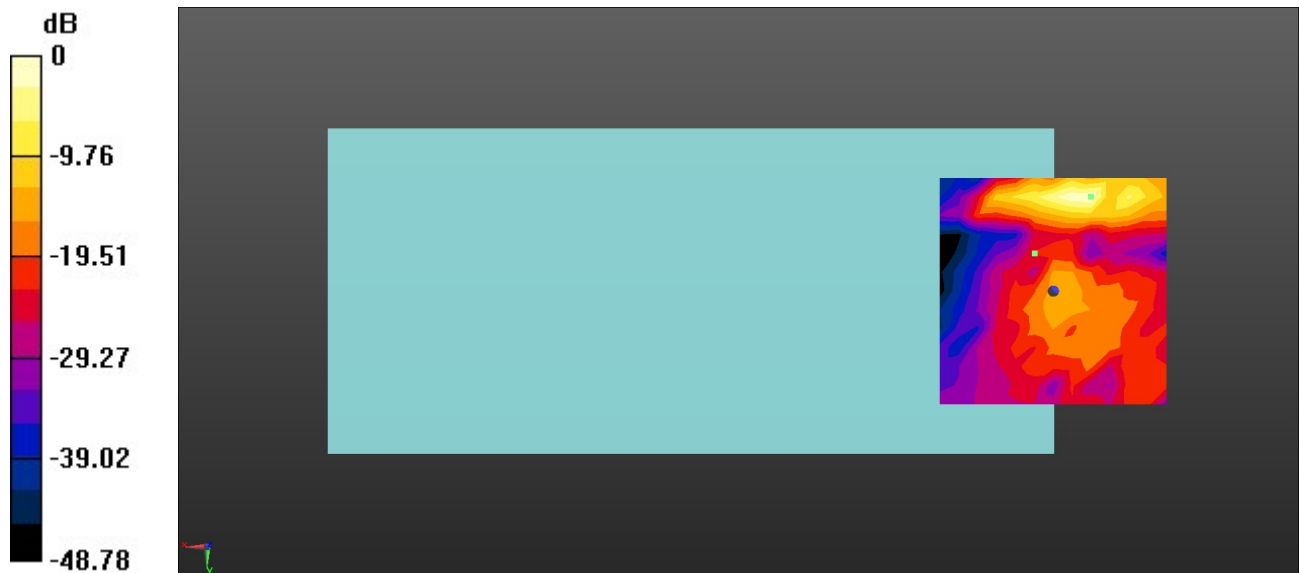
**Ch40620/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 33.08 dB

ABM1 comp = -15.43 dBA/m

Location: -8.3, -20.8, 3.7 mm



0 dB = 45.06 = 33.08 dB

### 14\_HAC T-Coil\_LTE Band 41\_20M\_16QAM\_1RB\_0Offset\_Ch40620(Z)

Communication System: UID 0, LTE-TDD (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 40.33 dB

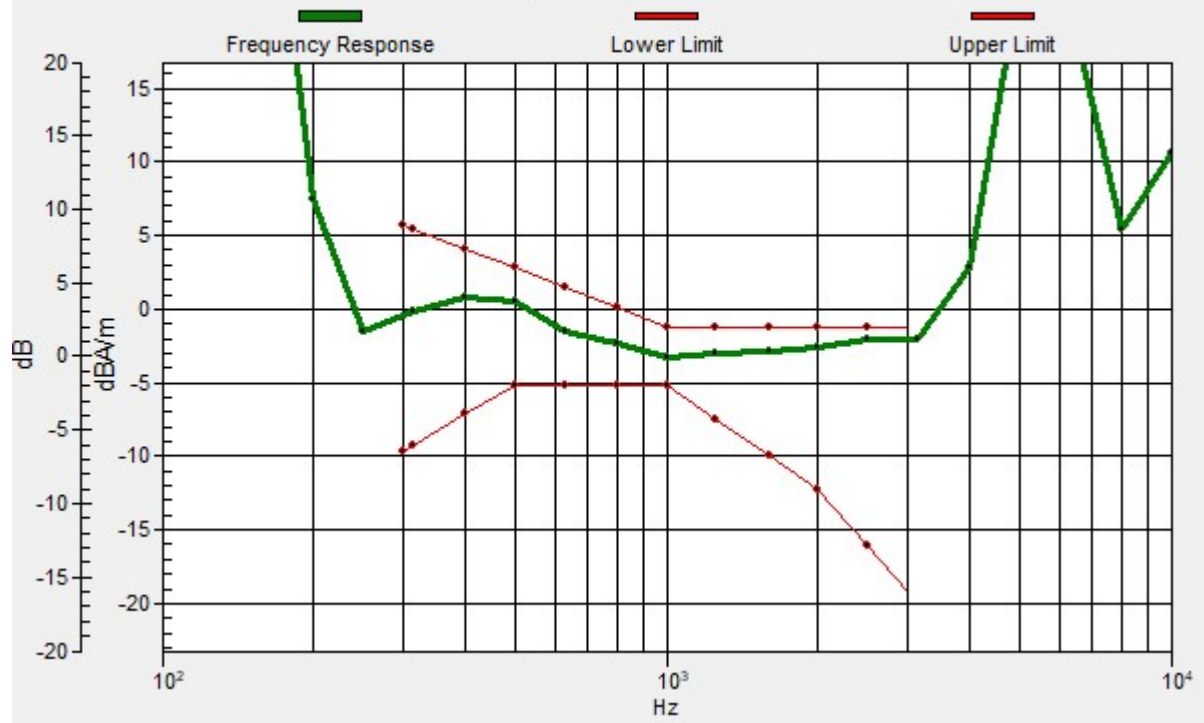
ABM1 comp = -1.45 dBA/m

Location: 4.2, -4.2, 3.7 mm



# Ch40620/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 4.2, -4.2, 3.7 mm Diff: 0.9dB



### 14\_HAC T-Coil\_LTE Band 41\_20M\_16QAM\_1RB\_0Offset\_Ch40620(Y)

Communication System: UID 0, LTE-TDD (0); Frequency: 2593 MHz;Duty Cycle: 1:1.59

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

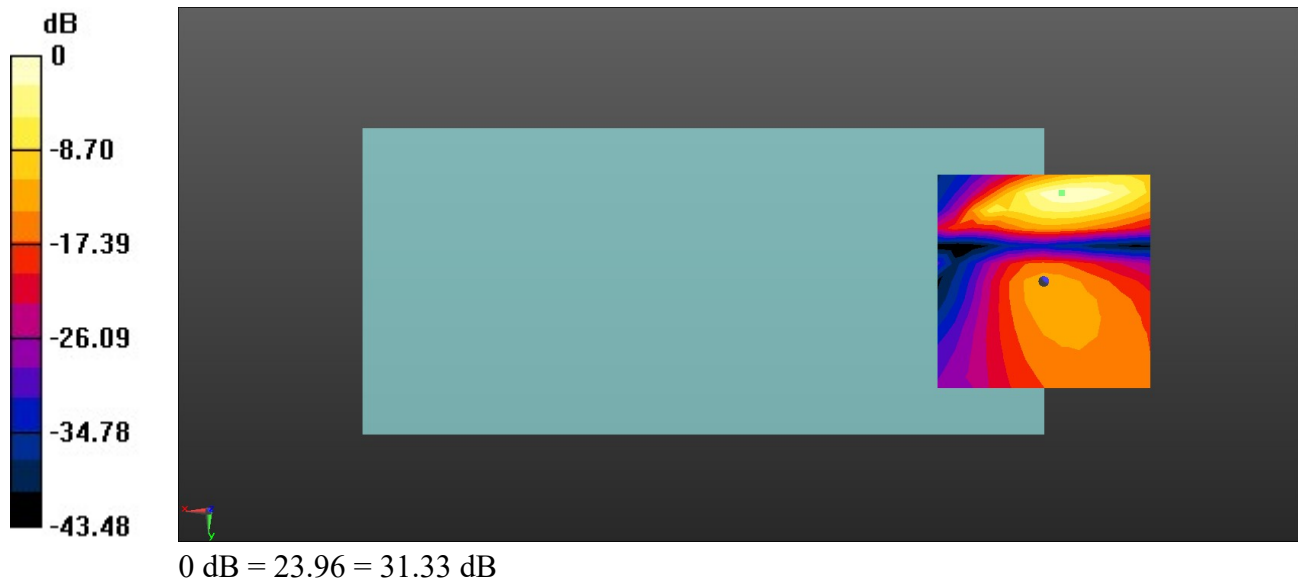
**Ch40620/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 31.33 dB

ABM1 comp = -14.88 dBA/m

Location: -4.2, -20.8, 3.7 mm



### 15\_HAC T-Coil\_LTE Band 42\_20M\_16QAM\_1RB\_0Offset\_Ch42590(Z)

Communication System: UID 0, LTE-TDD (0); Frequency: 3500 MHz; Duty Cycle: 1:1.59

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

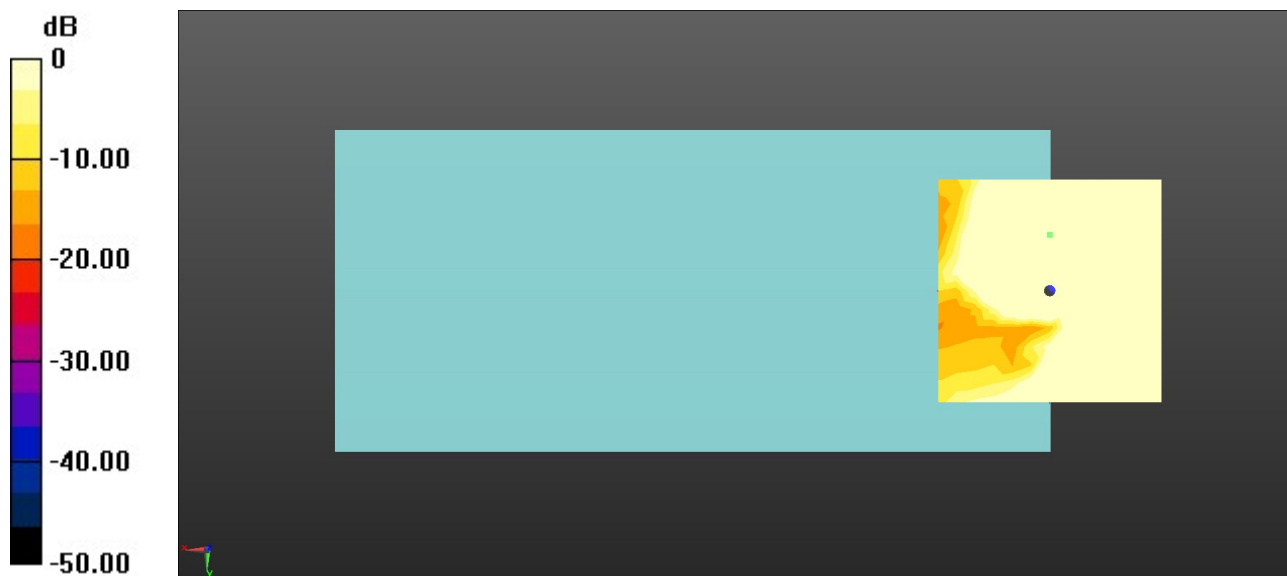
**Ch42590/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 41.94 dB

ABM1 comp = -1.19 dBA/m

Location: 0, -12.5, 3.7 mm

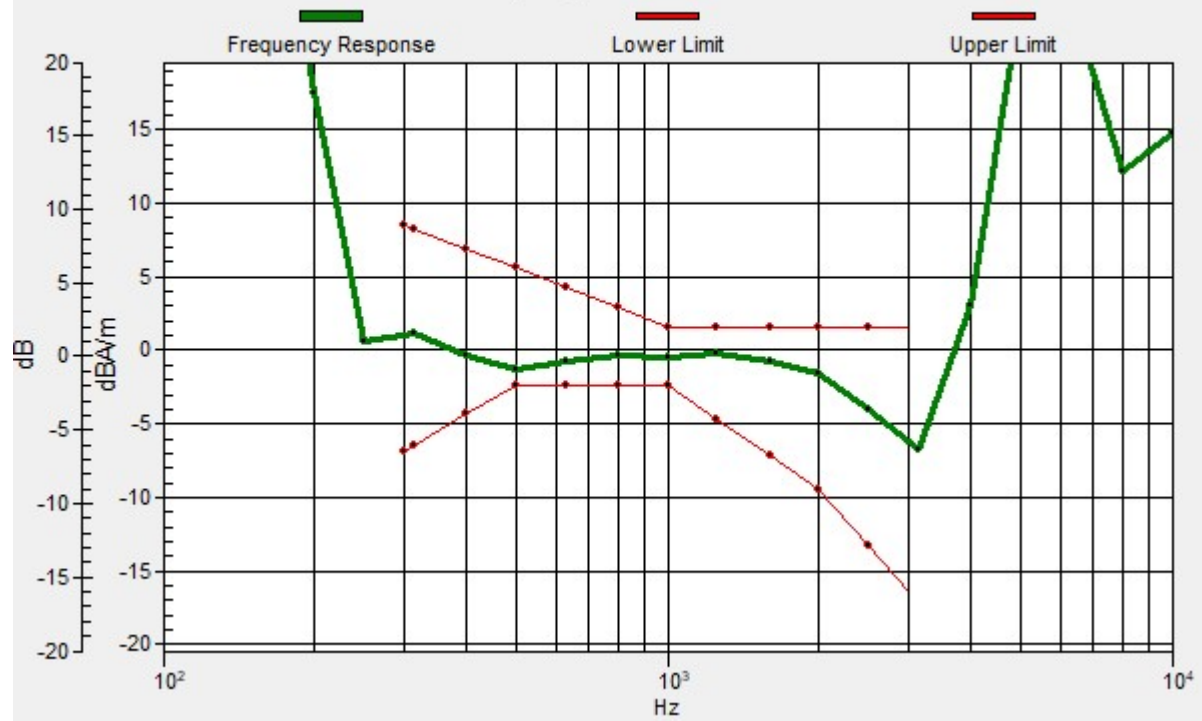


0 dB = 1.000 = 0.00 dB



# Ch42590/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 0, -12.5, 3.7 mm Diff: 1.12dB



### 15\_HAC T-Coil\_LTE Band 42\_20M\_16QAM\_1RB\_0Offset\_Ch42590(Y)

Communication System: UID 0, LTE-TDD (0); Frequency: 3500 MHz; Duty Cycle: 1:1.59

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

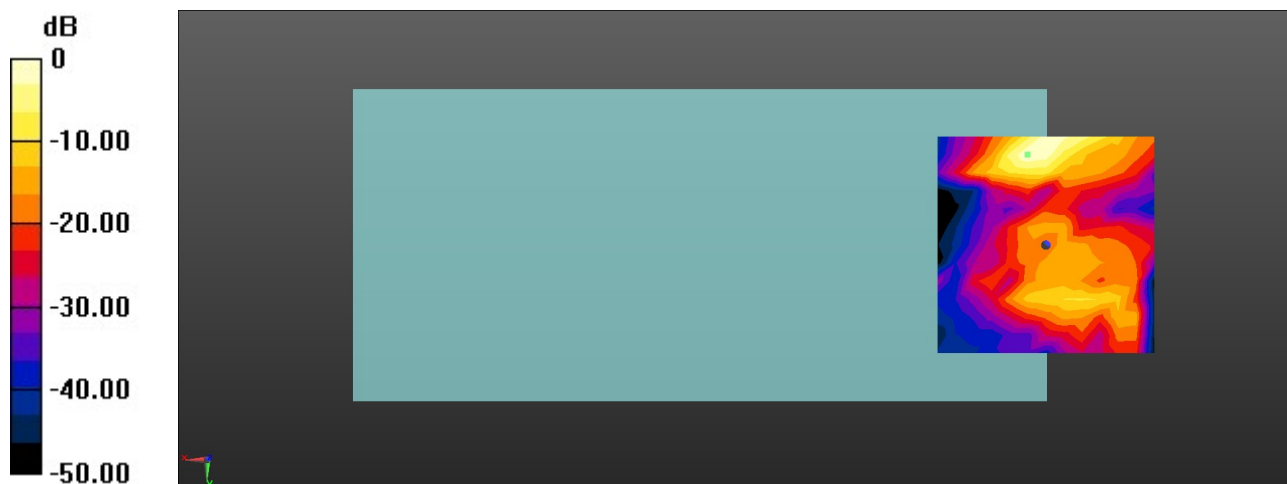
#### Ch42590/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 35.67 dB

ABM1 comp = -5.39 dBA/m

Location: 4.2, -20.8, 3.7 mm



0 dB = 60.77 = 35.67 dB

### 16\_HAC T-Coil\_WLAN2.4G\_802.11b 1Mbps\_Ch6(Z)

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2437 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

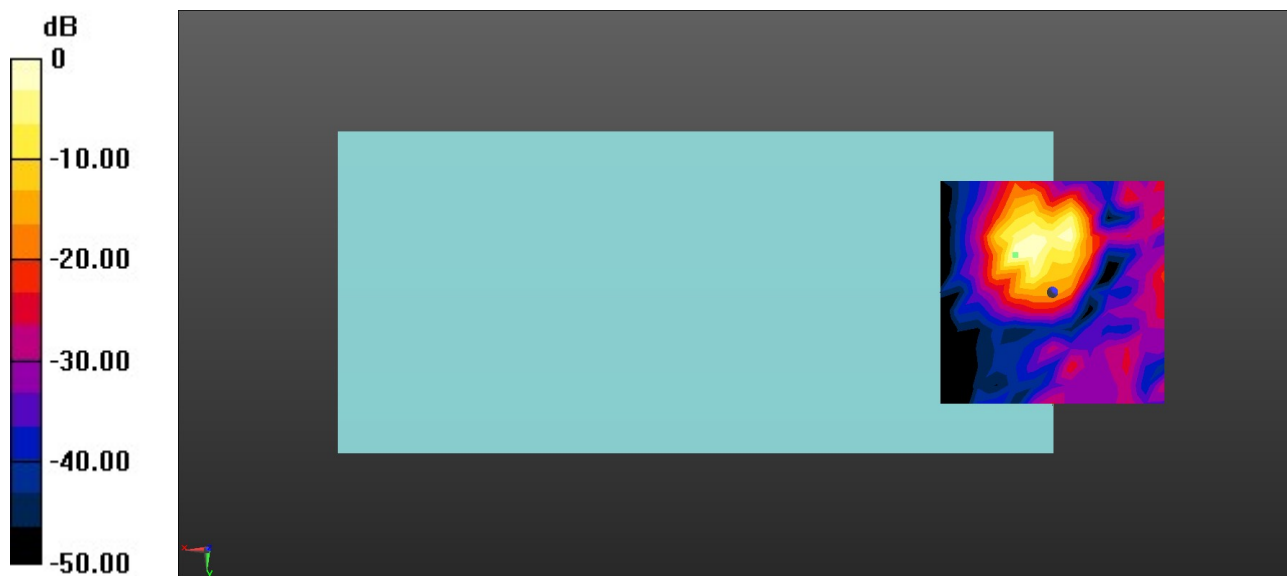
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Ch6/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 45.10 dB

ABM1 comp = 2.47 dBA/m

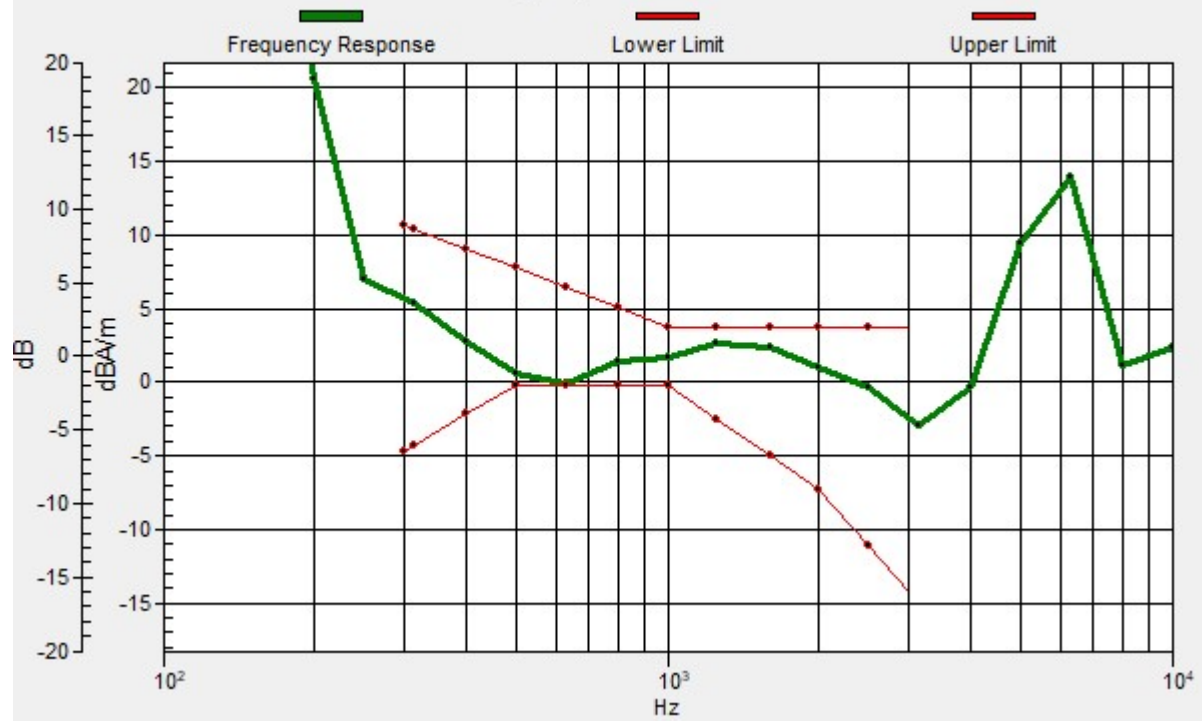
Location: 8.3, -8.3, 3.7 mm



0 dB = 179.8 = 45.10 dB

# Ch6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 8.3, -8.3, 3.7 mm Diff: 0.19dB



### 16\_HAC T-Coil\_WLAN2.4G\_802.11b 1Mbps\_Ch6(Y)

Communication System: UID 0, WLAN2.4GHz (0); Frequency: 2437 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

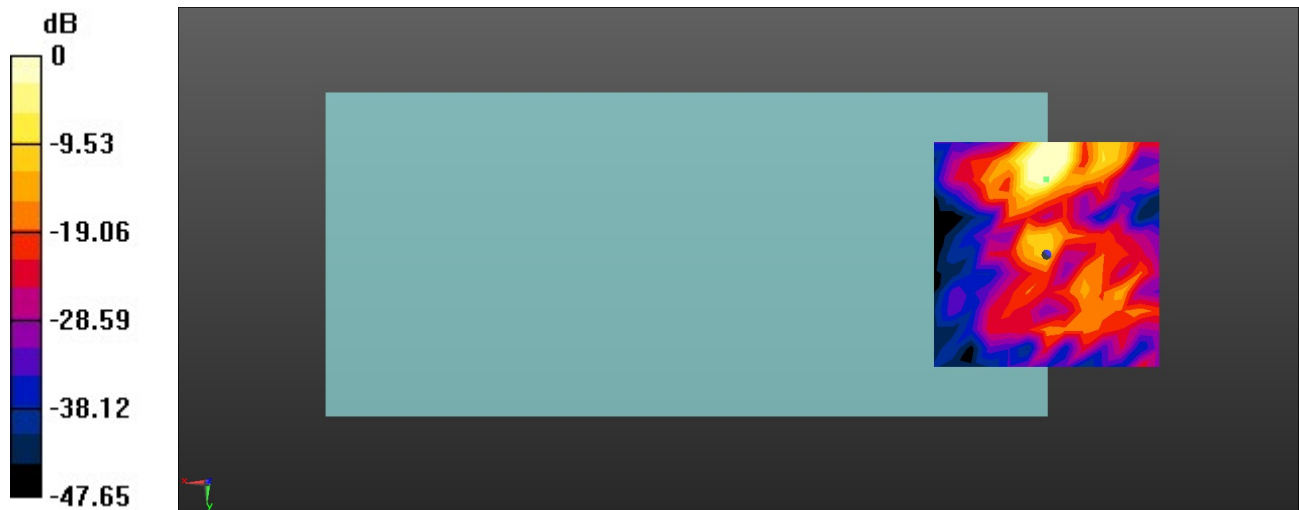
**Ch6/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 40.14 dB

ABM1 comp = -7.71 dBA/m

Location: 0, -16.7, 3.7 mm



0 dB = 101.7 = 40.14 dB

### 17\_HAC T-Coil\_WLAN5G\_802.11a 6Mbps\_Ch40(Z)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5200 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

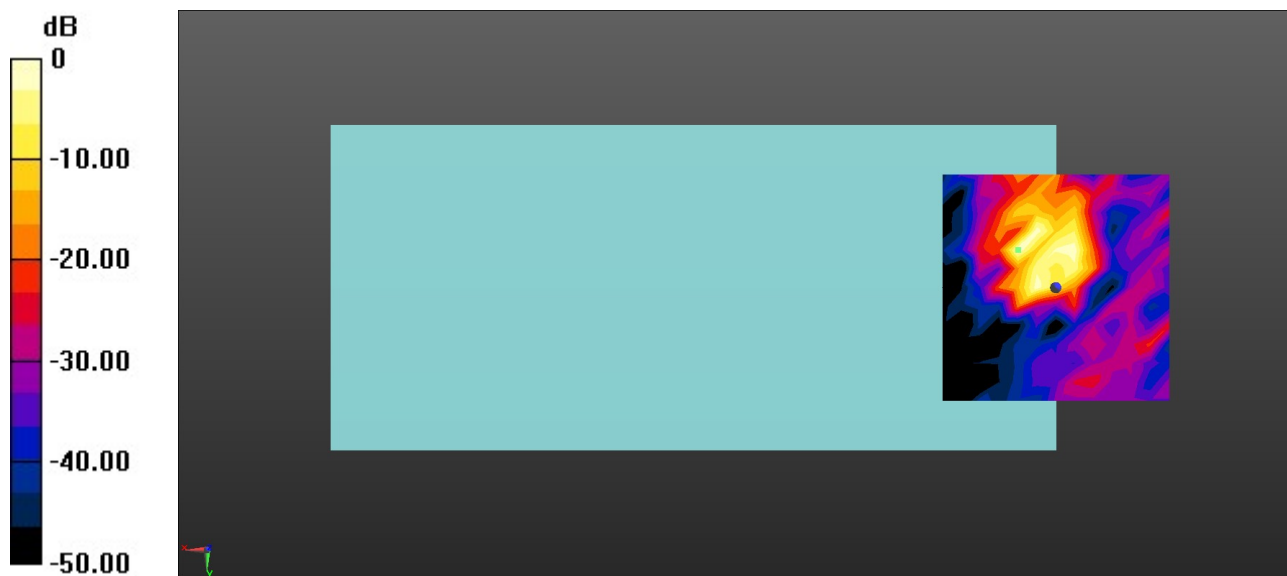
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Ch40/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 44.69 dB

ABM1 comp = 1.27 dBA/m

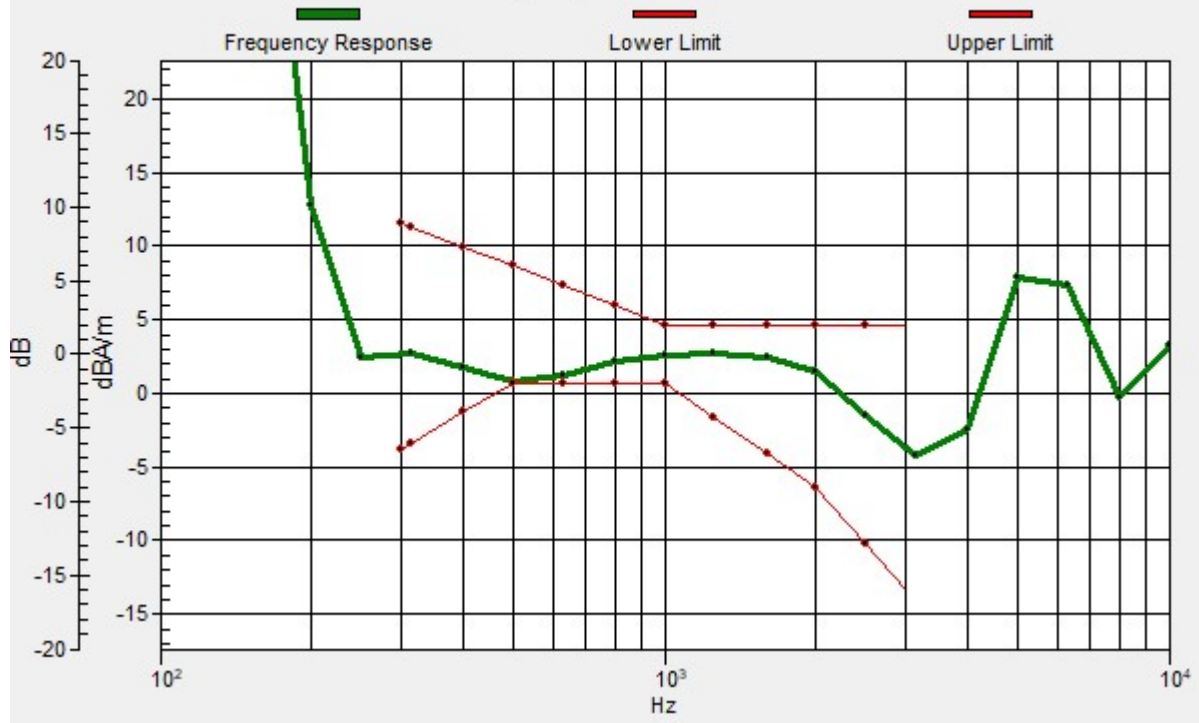
Location: 8.3, -8.3, 3.7 mm



0 dB = 171.7 = 44.69 dB

# Ch40/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 8.3, -8.3, 3.7 mm Diff: 0.17dB



### 17\_HAC T-Coil\_WLAN5G\_802.11a 6Mbps\_Ch40(Y)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5200 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5

- 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)

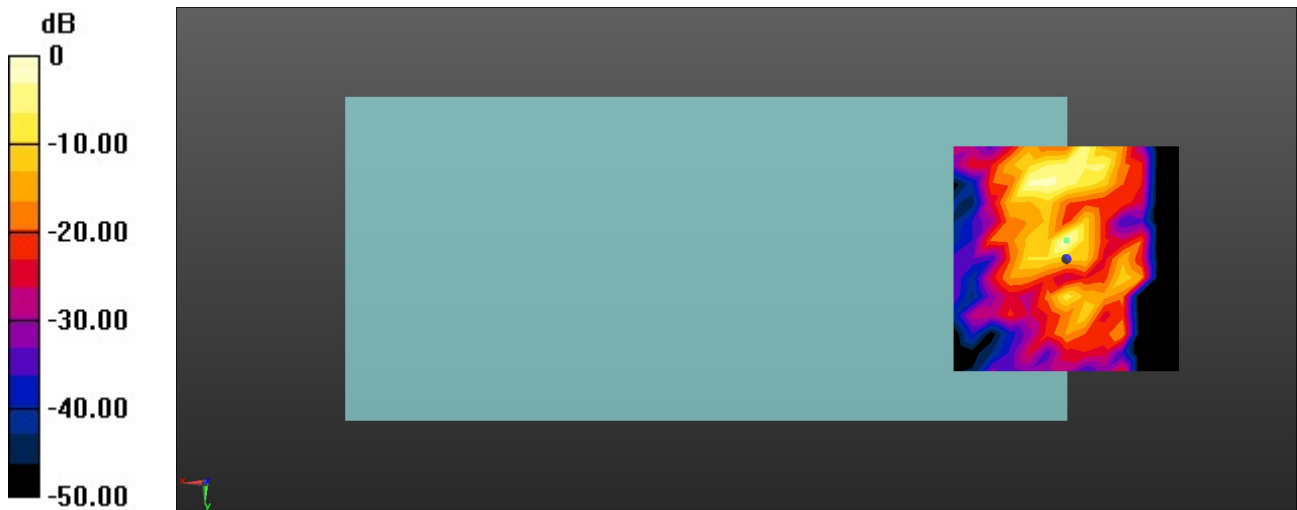
**Ch40/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 43.06 dB

ABM1 comp = -6.87 dBA/m

Location: 0, -4.2, 3.7 mm



0 dB = 142.2 = 43.06 dB



### 18\_HAC T-Coil\_WLAN5G\_802.11a 6Mbps\_Ch60(Z)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5300 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

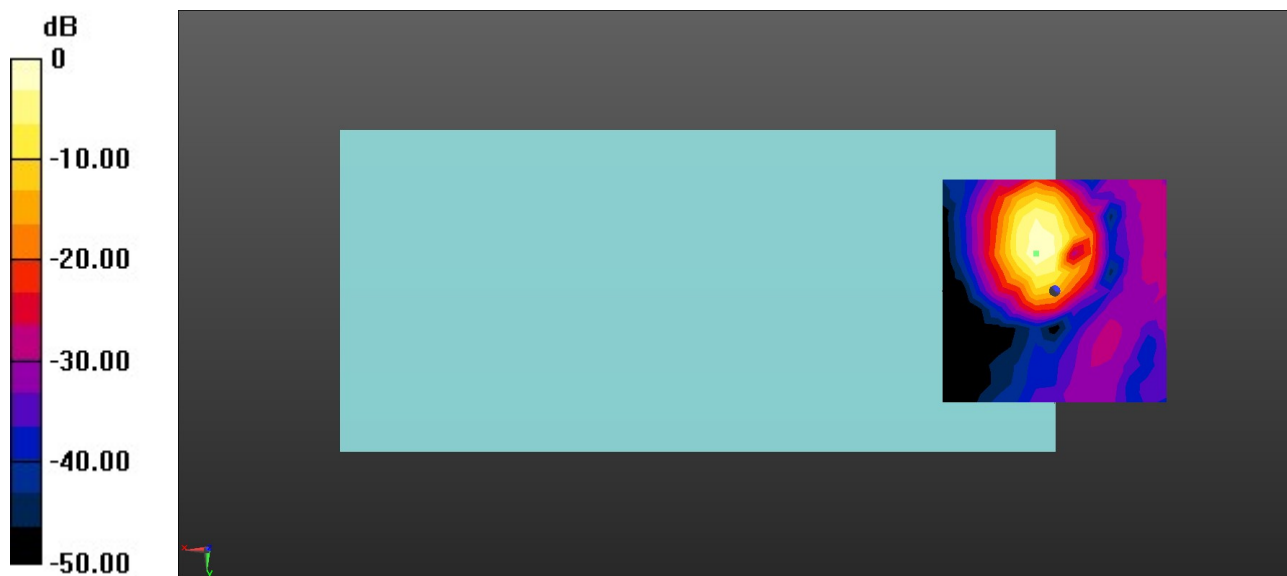
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Ch60/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 51.60 dB

ABM1 comp = 2.63 dBA/m

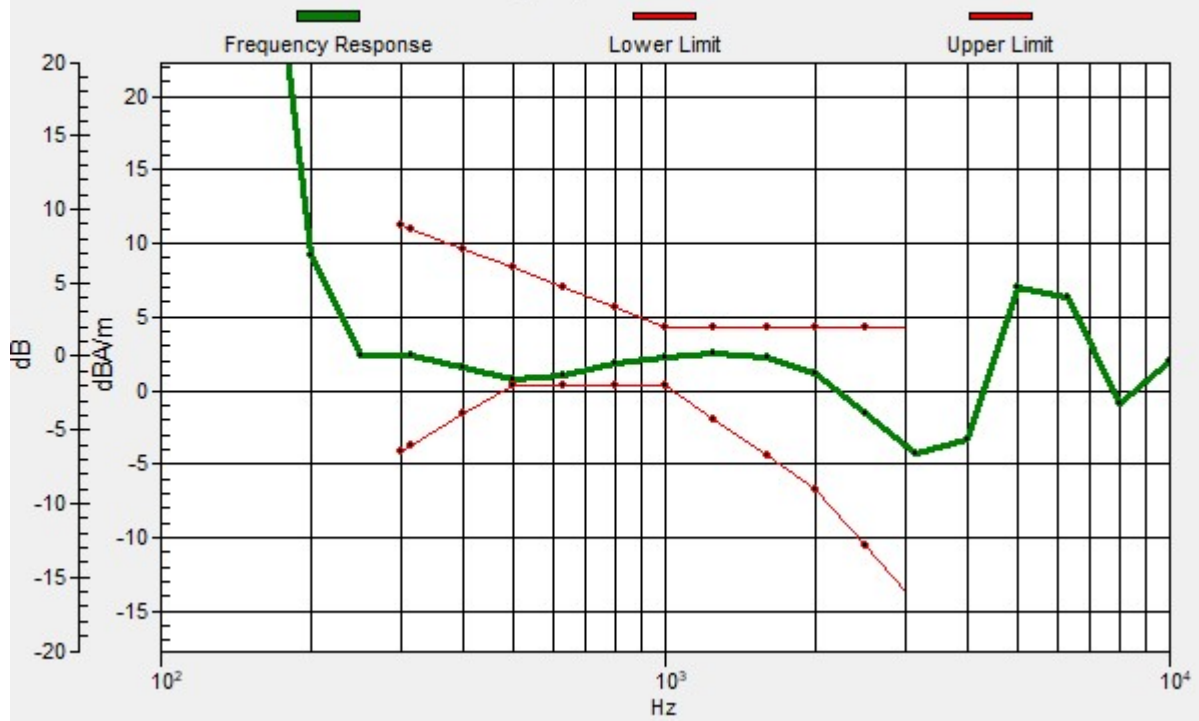
Location: 4.2, -8.3, 3.7 mm



0 dB = 380.1 = 51.60 dB

# Ch60/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 4.2, -8.3, 3.7 mm Diff: 0.47dB



### 18\_HAC T-Coil\_WLAN5G\_802.11a 6Mbps\_Ch60(Y)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5300 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

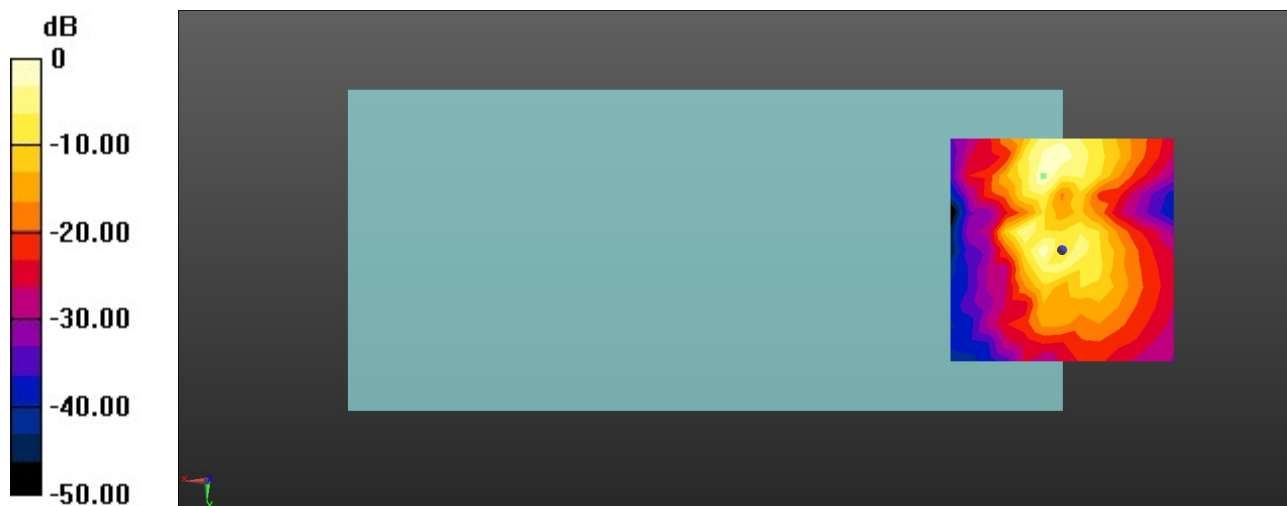
**Ch60/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 45.89 dB

ABM1 comp = -4.99 dBA/m

Location: 4.2, -16.7, 3.7 mm



0 dB = 196.9 = 45.89 dB

### 19\_HAC T-Coil\_WLAN5G\_802.11a 6Mbps\_Ch116(Z)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5580 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

#### DASY5 Configuration:

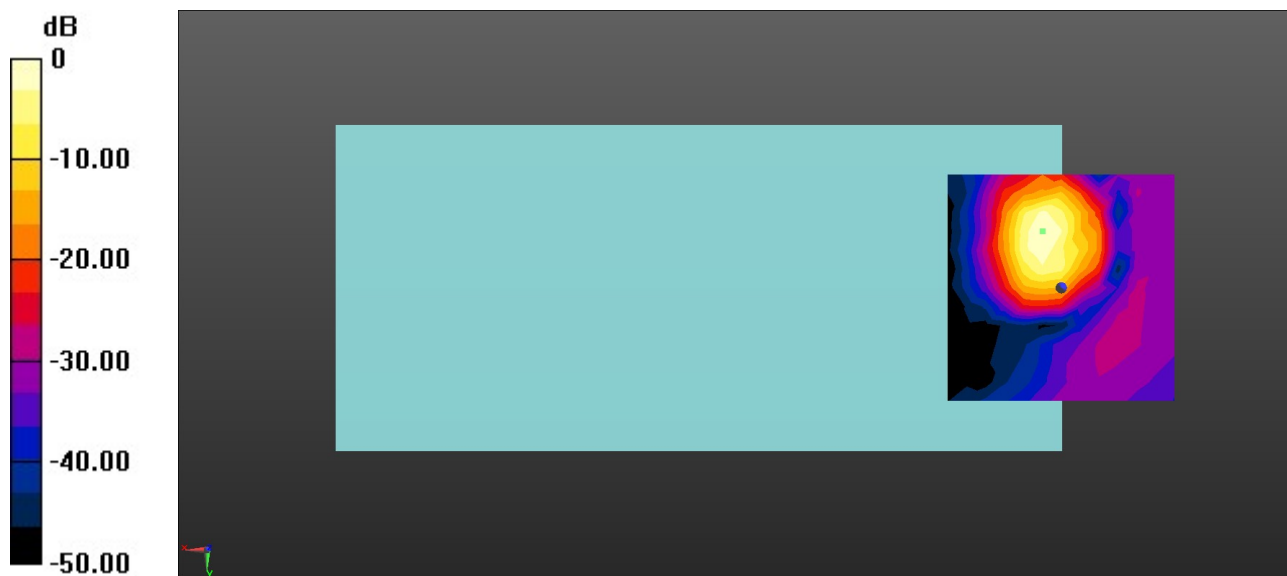
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Ch116/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 48.29 dB

ABM1 comp = 2.30 dBA/m

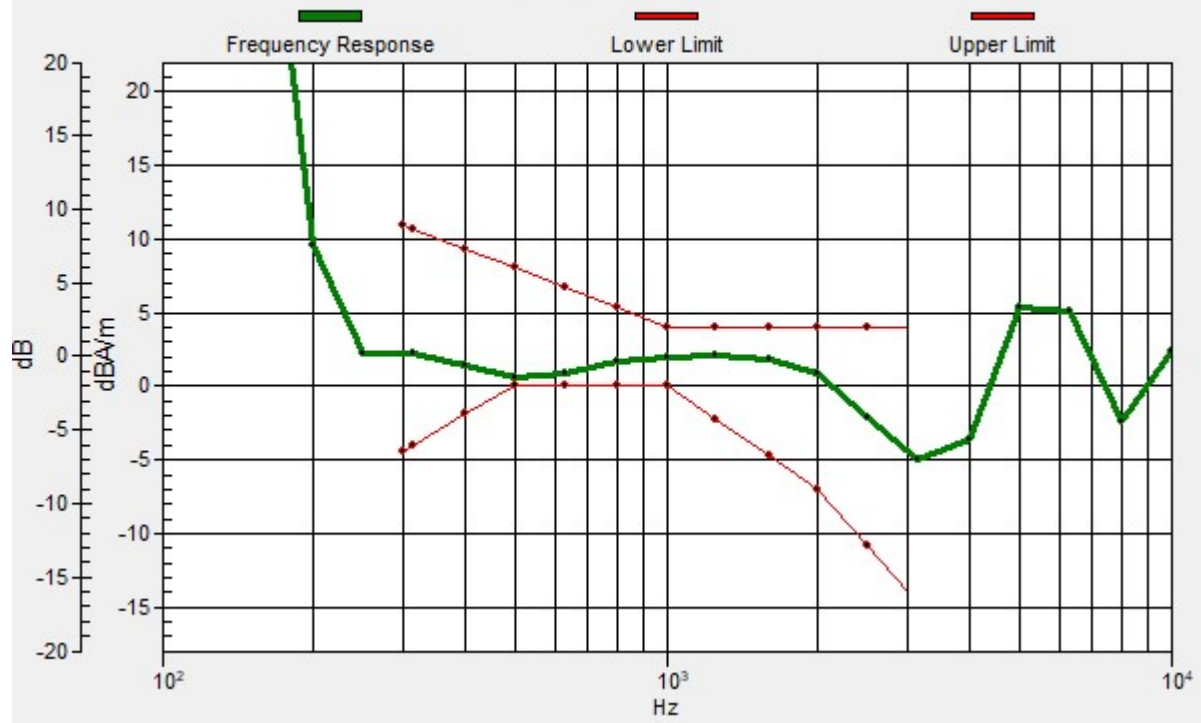
Location: 4.2, -12.5, 3.7 mm



0 dB = 259.7 = 48.29 dB

# Ch116/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 4.2, -12.5, 3.7 mm Diff: 0.55dB



### 19\_HAC T-Coil\_WLAN5G\_802.11a 6Mbps\_Ch116(Y)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5580 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26

- Sensor-Surface: 0mm (Fix Surface)

- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5

- 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)

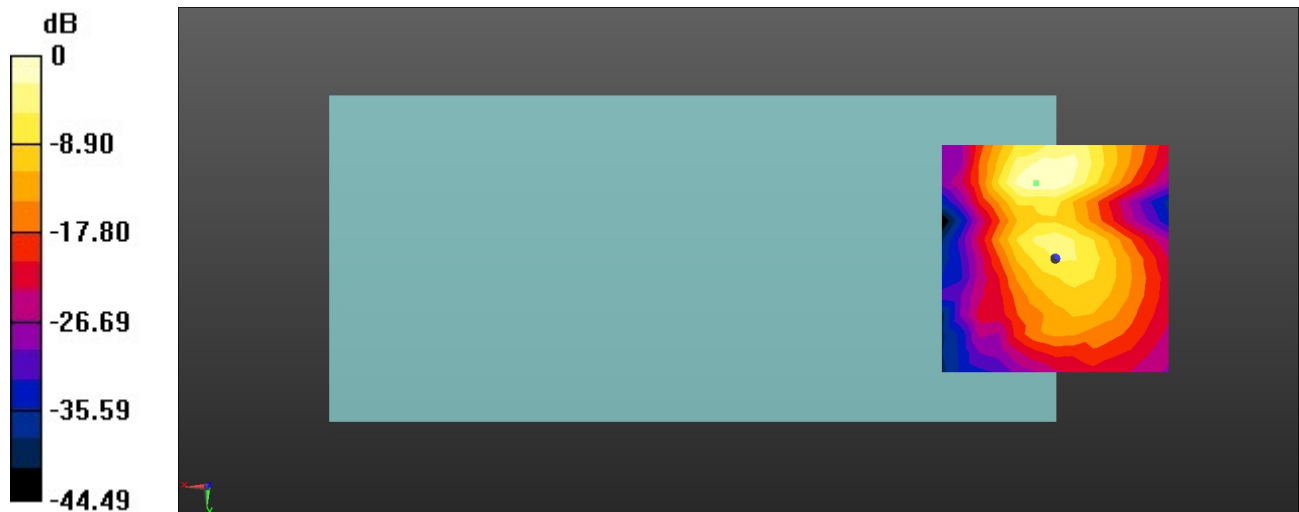
**Ch116/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 42.34 dB

ABM1 comp = -5.27 dBA/m

Location: 4.2, -16.7, 3.7 mm



0 dB = 131.0 = 42.34 dB

### 20\_HAC T-Coil\_WLAN5G\_802.11a 6Mbps\_Ch157(Z)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5785 MHz;Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

#### DASY5 Configuration:

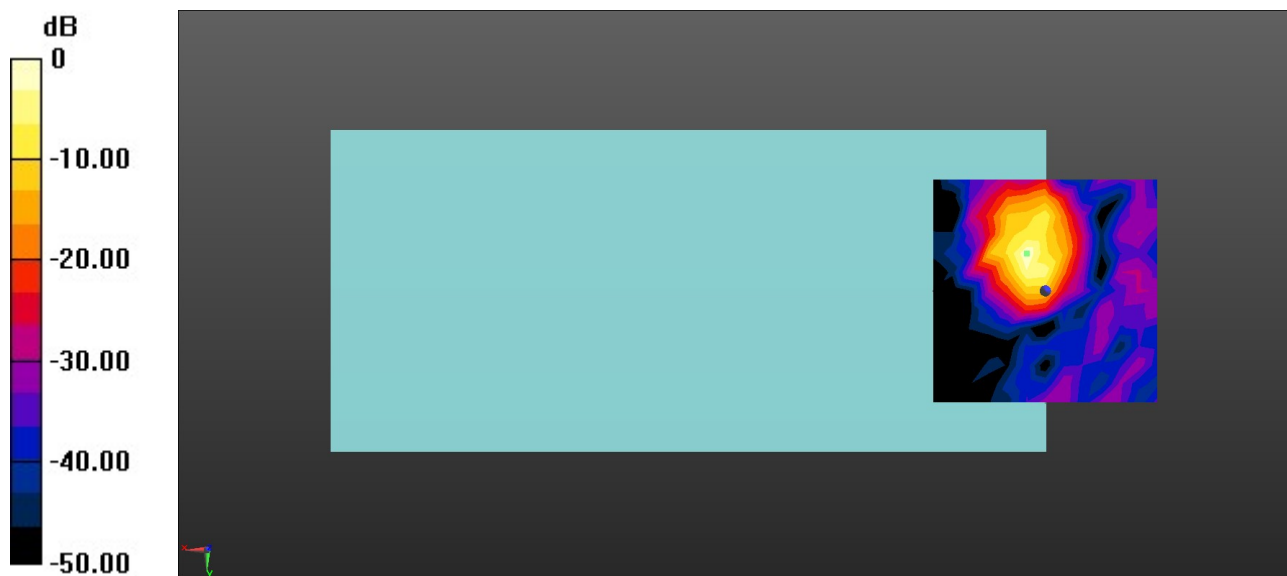
- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Ch157/z (axial) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1):** Measurement grid: dx=10mm, dy=10mm

ABM1/ABM2 = 48.60 dB

ABM1 comp = 2.30 dBA/m

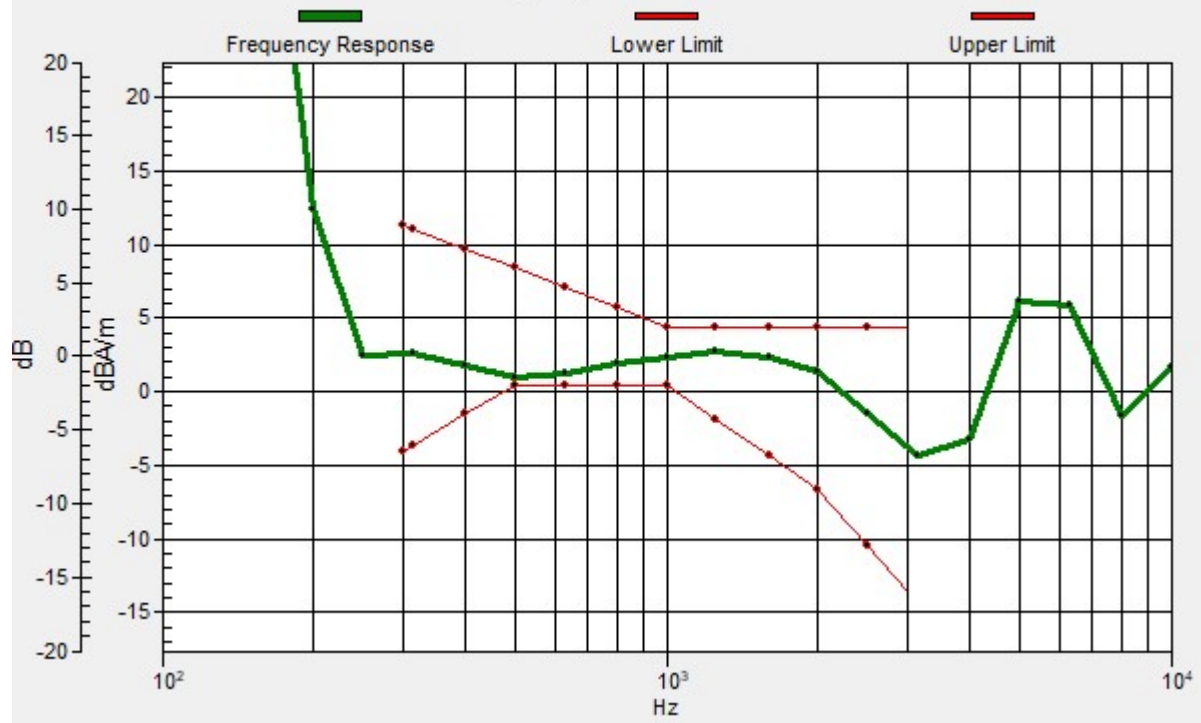
Location: 4.2, -8.3, 3.7 mm



0 dB = 269.2 = 48.60 dB

# Ch157/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f)

Loc: 4.2, -8.3, 3.7 mm Diff: 0.54dB





### 20\_HAC T-Coil\_WLAN5G\_802.11a 6Mbps\_Ch157(Y)

Communication System: UID 0, WLAN5GHz (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.3 °C;

#### DASY5 Configuration:

- Probe: AM1DV3 - 3093; Calibrated: 2022/1/26
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1650; Calibrated: 2022/8/5
- 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)

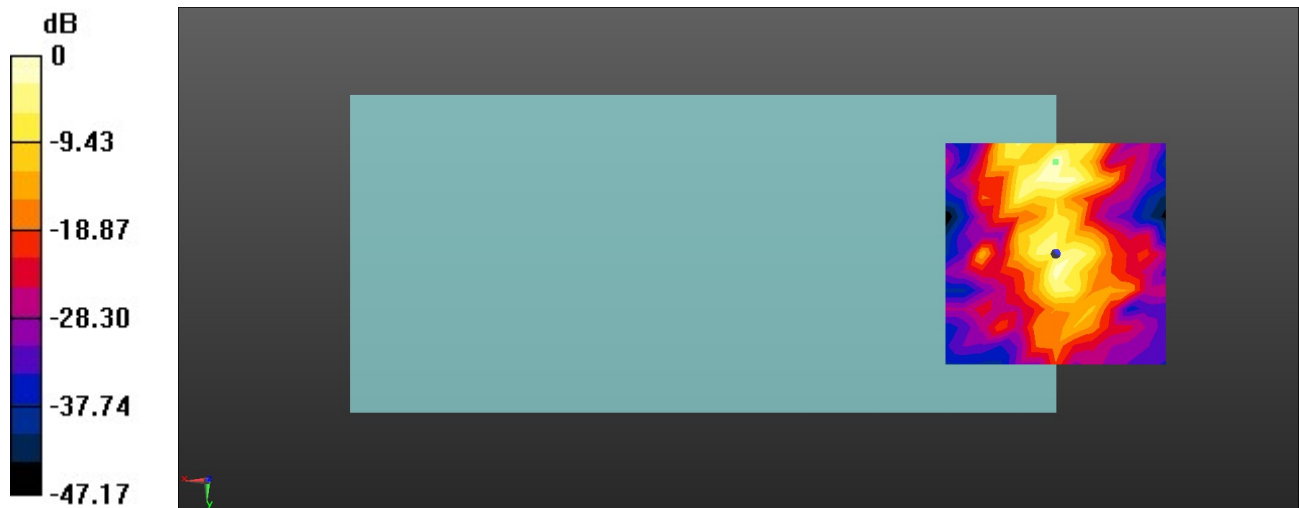
#### Ch157/y (transversal) 4.2mm 50 x 50/ABM SNR(x,y,z) (13x13x1): Measurement grid:

dx=10mm, dy=10mm

ABM1/ABM2 = 40.43 dB

ABM1 comp = -8.26 dBA/m

Location: 0, -20.8, 3.7 mm



0 dB = 105.1 = 40.43 dB