

GSM

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz;Duty Cycle: 1:8.30042

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM850 ch190 FR V1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

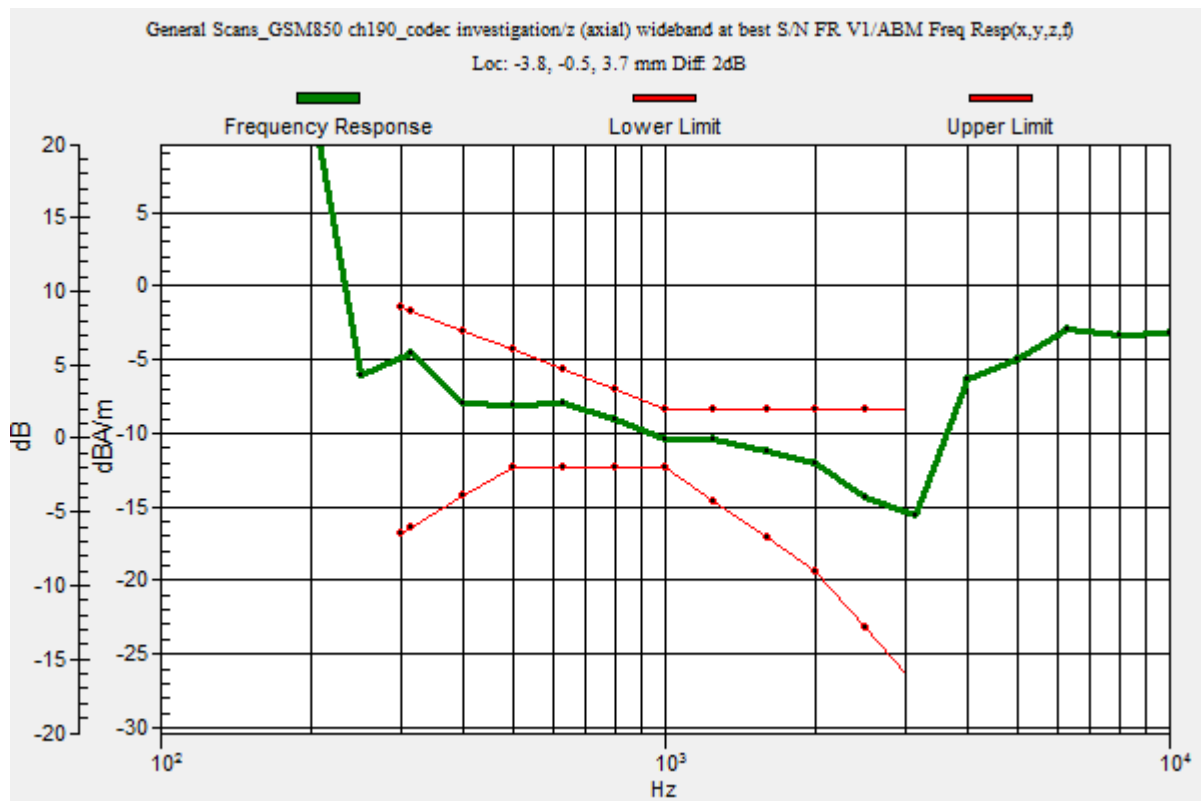
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -3.8, -0.5, 3.7 mm



GSM

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM850 ch190 FR V1/z (axial)

4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.30 dB

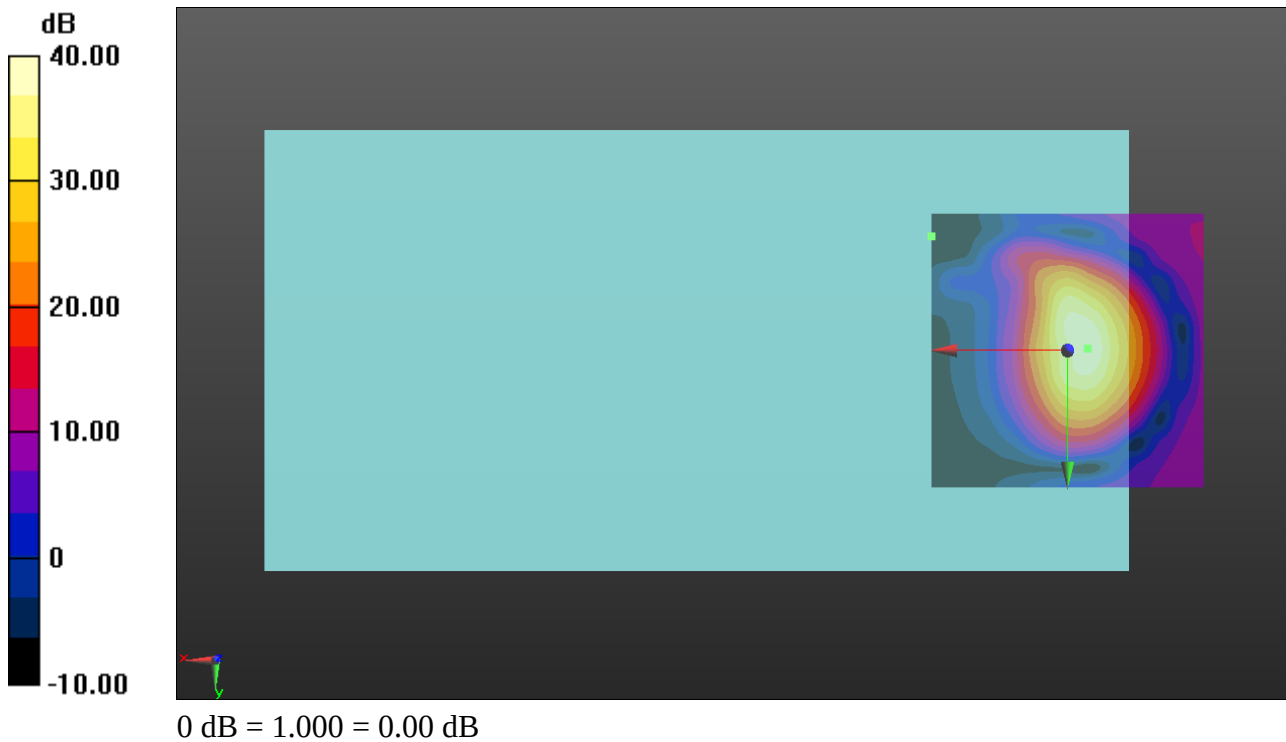
ABM1 comp = -4.14 dBA/m

BWC Factor = 0.16 dB

Location: -3.7, -0.4, 3.7 mm

ABM2 = -8.38 dBA/m

Location: 25, -20.8, 3.7 mm



GSM

Communication System: UID 0, Generic GSM (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM850 ch190 FR V1/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 34.96 dB

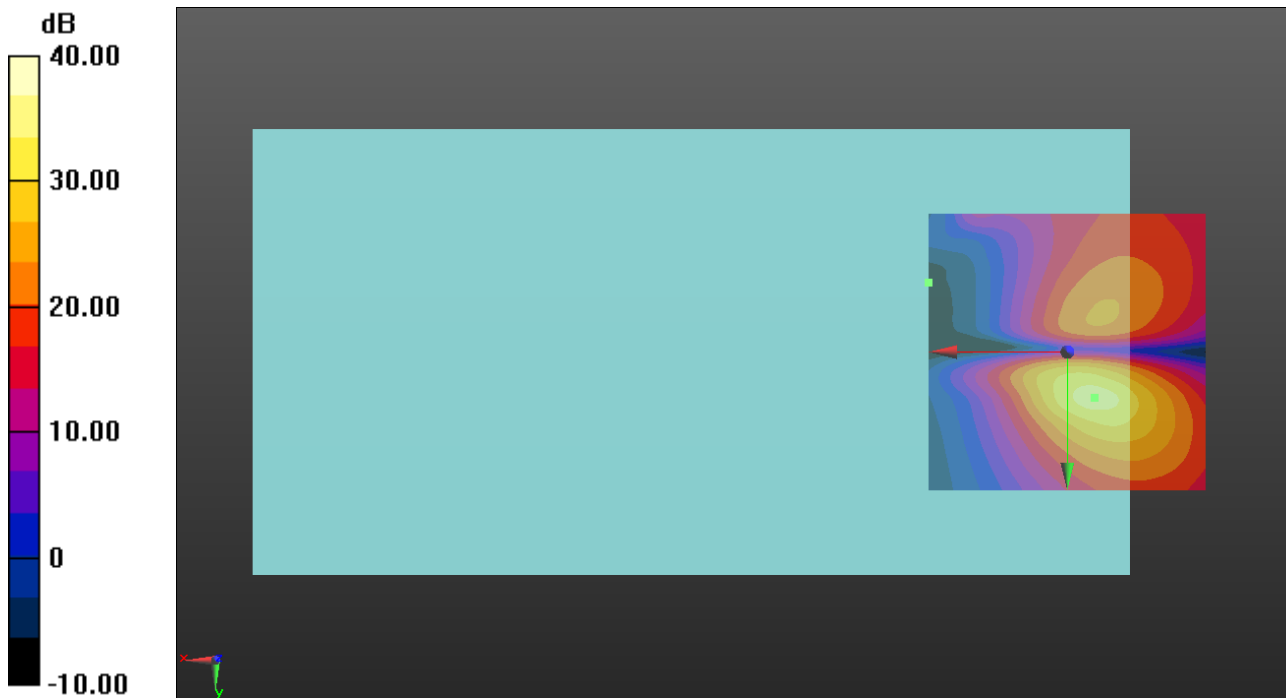
ABM1 comp = -12.27 dBA/m

BWC Factor = 0.16 dB

Location: -5, 8.3, 3.7 mm

ABM2 = -9.77 dBA/m

Location: 25, -12.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1850.2 MHz;Duty Cycle: 1:8.30042

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM1900 ch512 FR V1/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

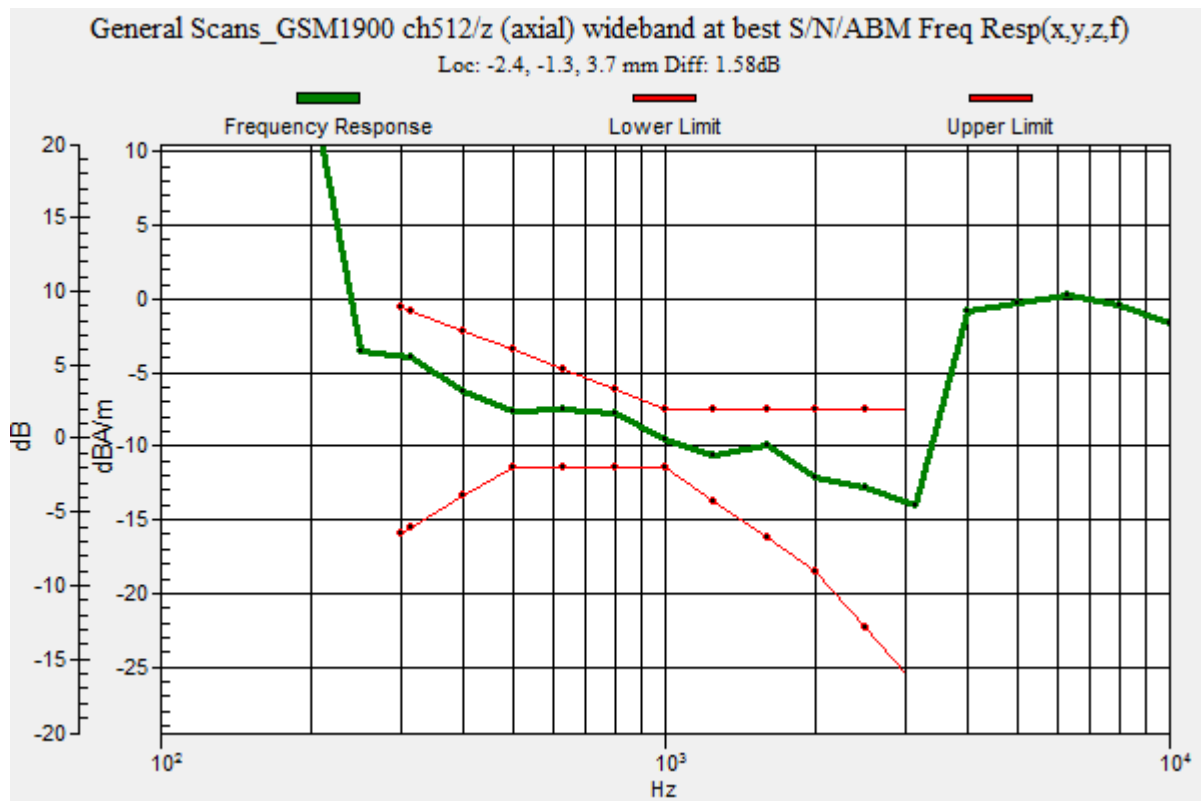
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.58 dB

BWC Factor = 10.80 dB

Location: -2.4, -1.3, 3.7 mm



GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM1900 ch512 FR V1/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.60 dB

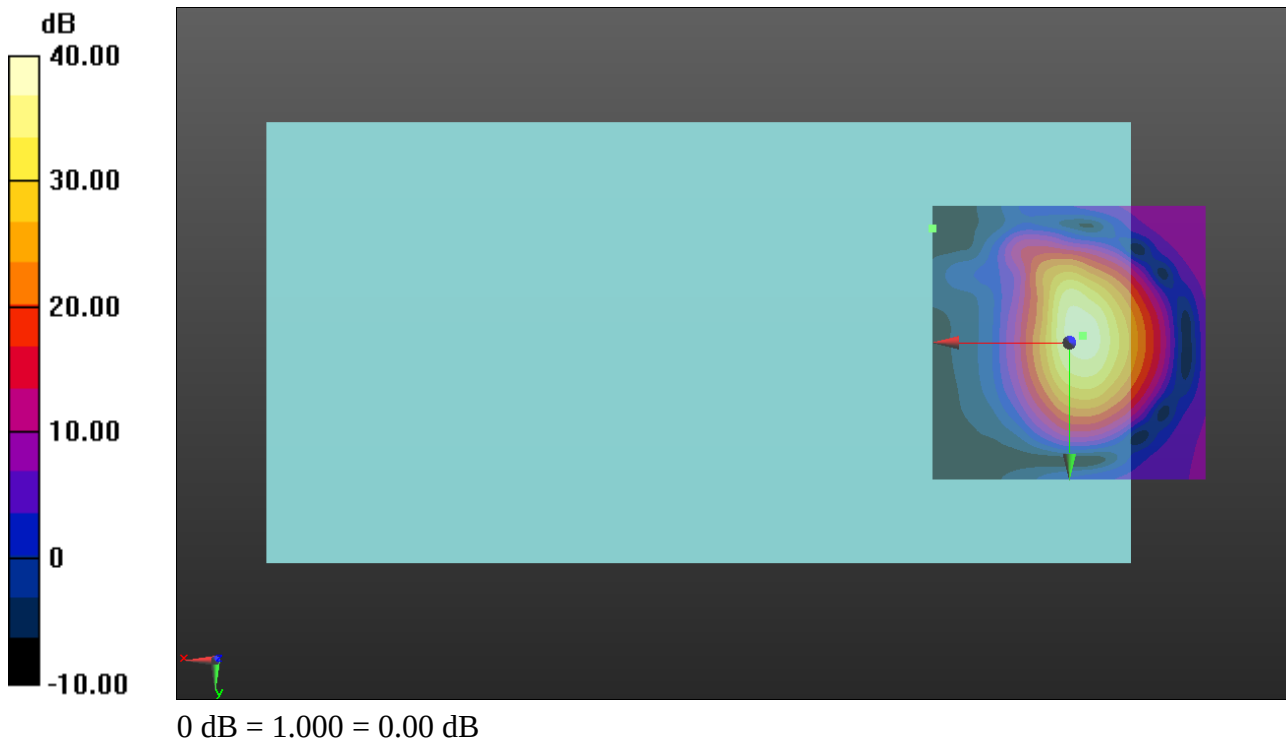
ABM1 comp = -3.74 dBA/m

BWC Factor = 0.16 dB

Location: -2.5, -1.3, 3.7 mm

ABM2 = -7.31 dBA/m

Location: 25, -20.8, 3.7 mm



GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1850.2 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM1900 ch512 FR V1/y

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

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 34.48 dB

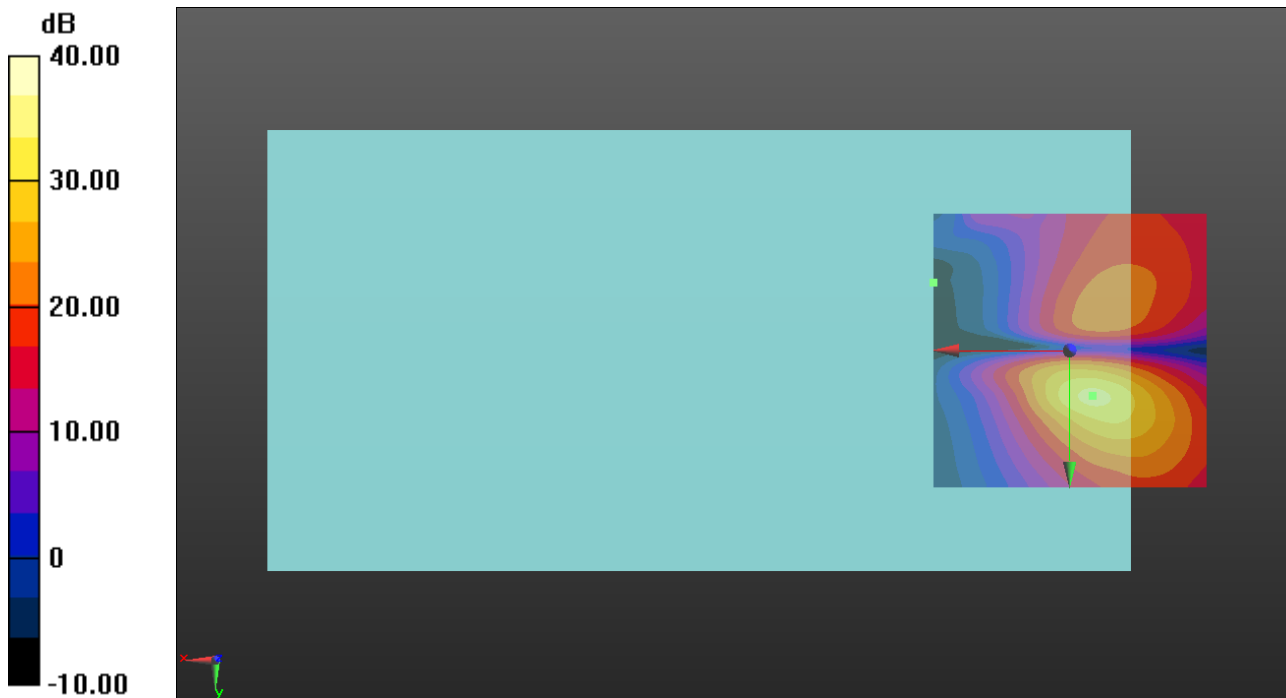
ABM1 comp = -12.83 dBA/m

BWC Factor = 0.16 dB

Location: -4.2, 8.3, 3.7 mm

ABM2 = -9.16 dBA/m

Location: 25, -12.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1752.6 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA IV ch1513 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

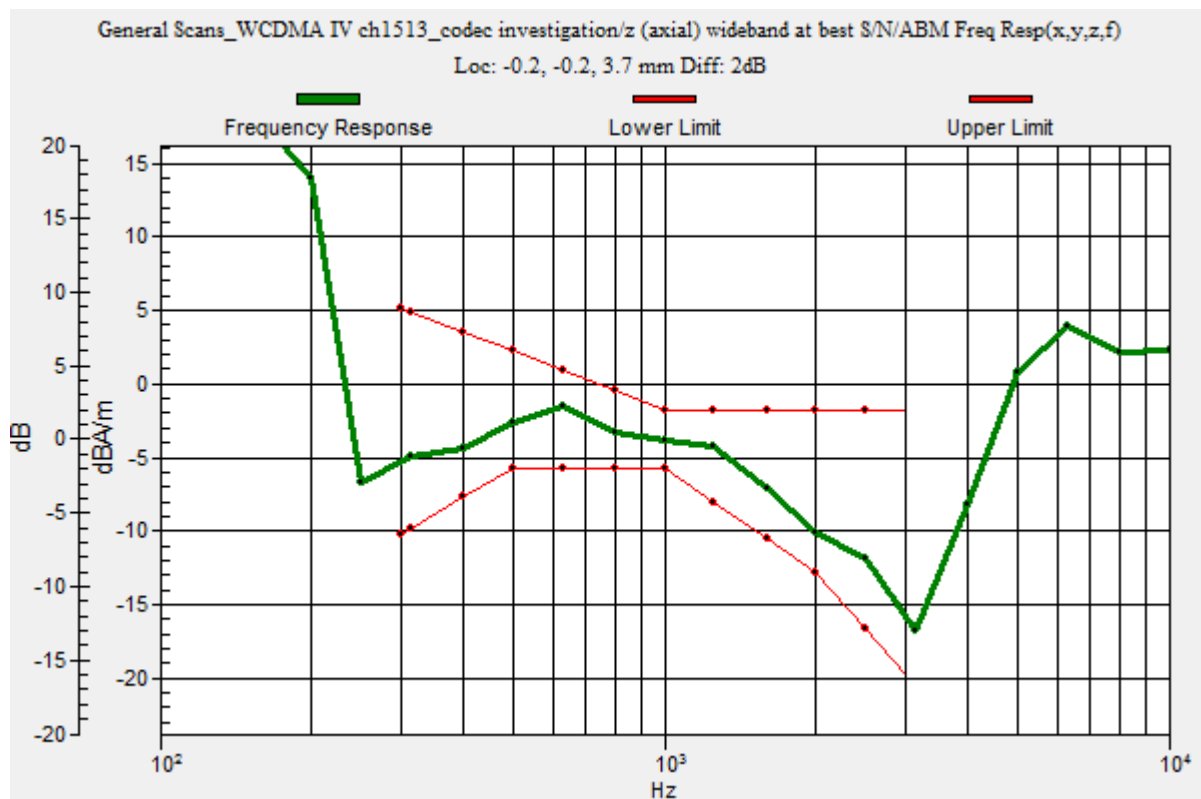
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -0.2, -0.2, 3.7 mm



WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA IV ch1513 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 41.29 dB

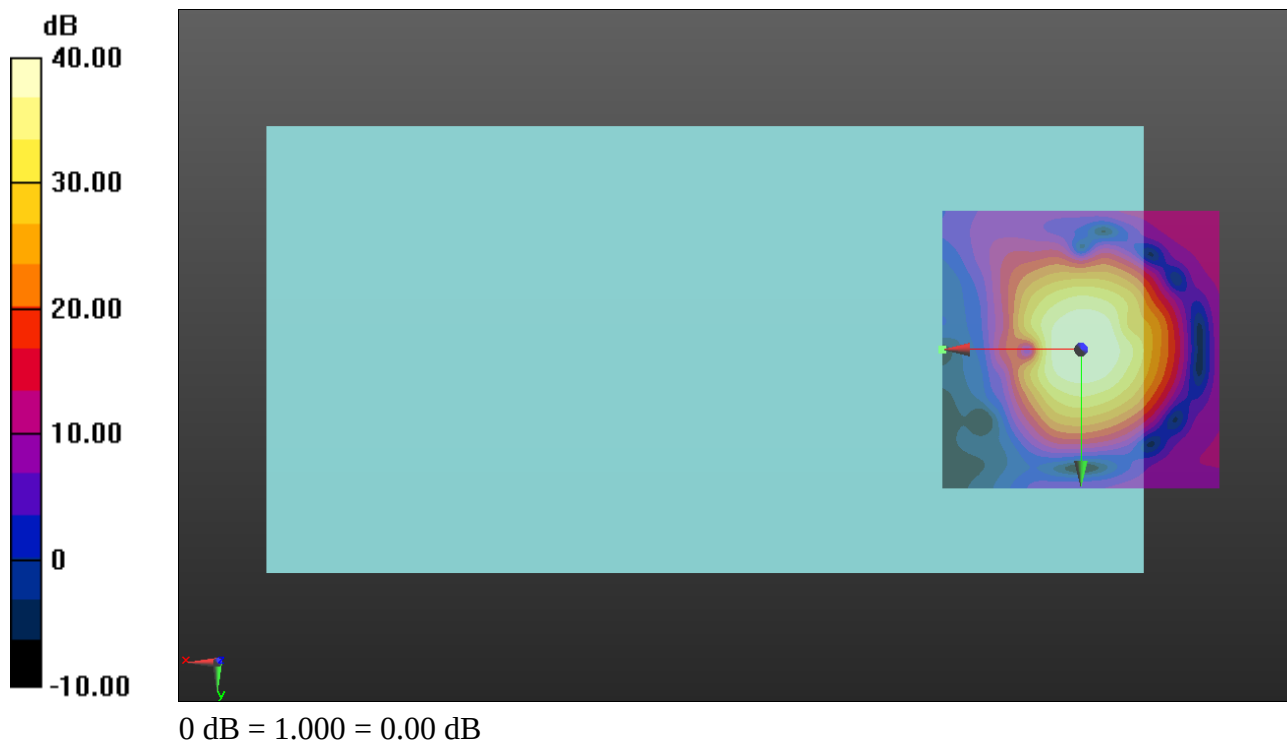
ABM1 comp = -4.37 dBA/m

BWC Factor = 0.16 dB

Location: 0, -0.4, 3.7 mm

ABM2 = -18.75 dBA/m

Location: 25, 0, 3.7 mm



WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1752.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA IV ch1513 WB AMR 6.6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.48 dB

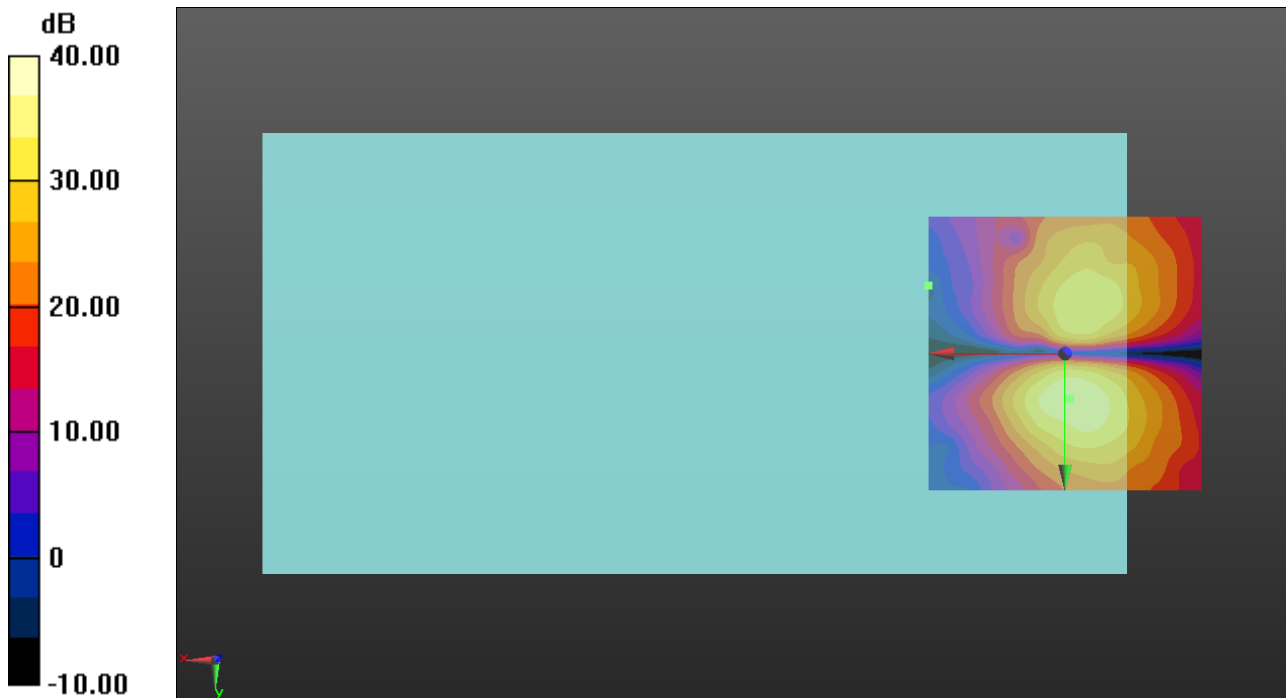
ABM1 comp = -13.57 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, 8.3, 3.7 mm

ABM2 = -24.33 dBA/m

Location: 25, -12.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA II ch9400 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm,

dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

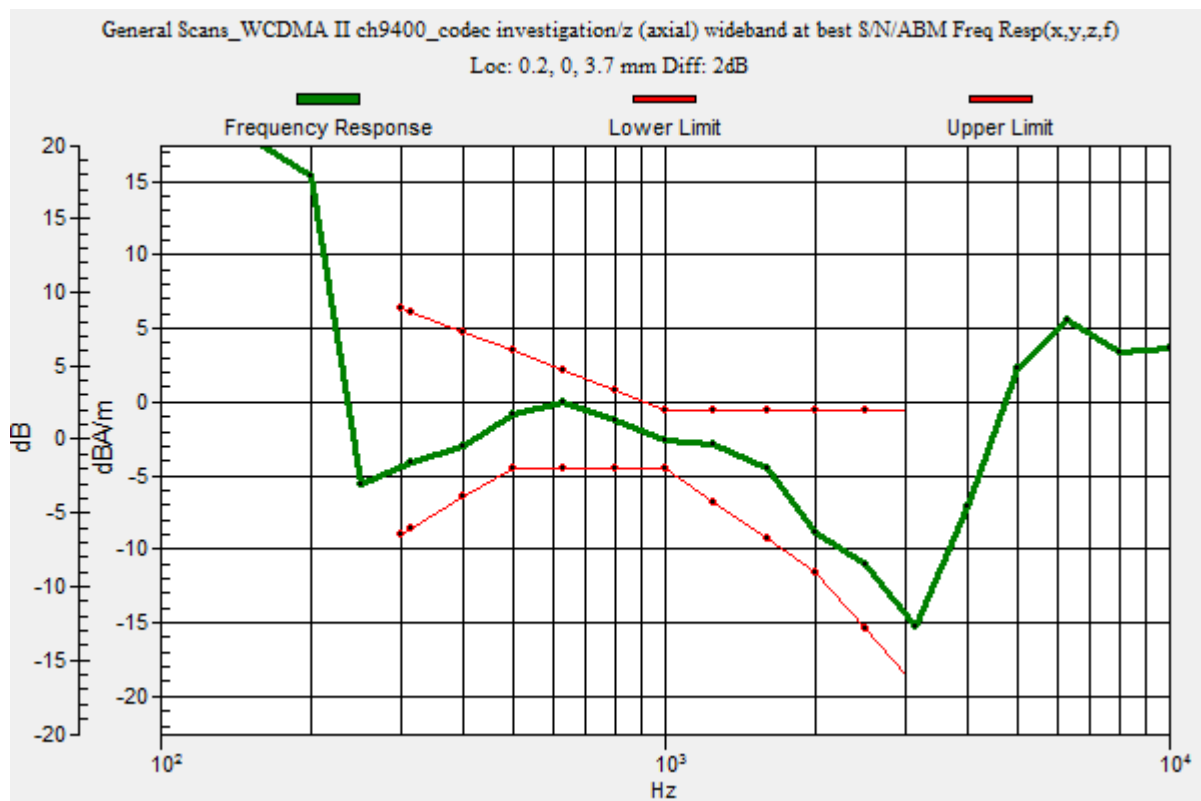
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 0.2, 0, 3.7 mm



WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA II ch9400 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 42.45 dB

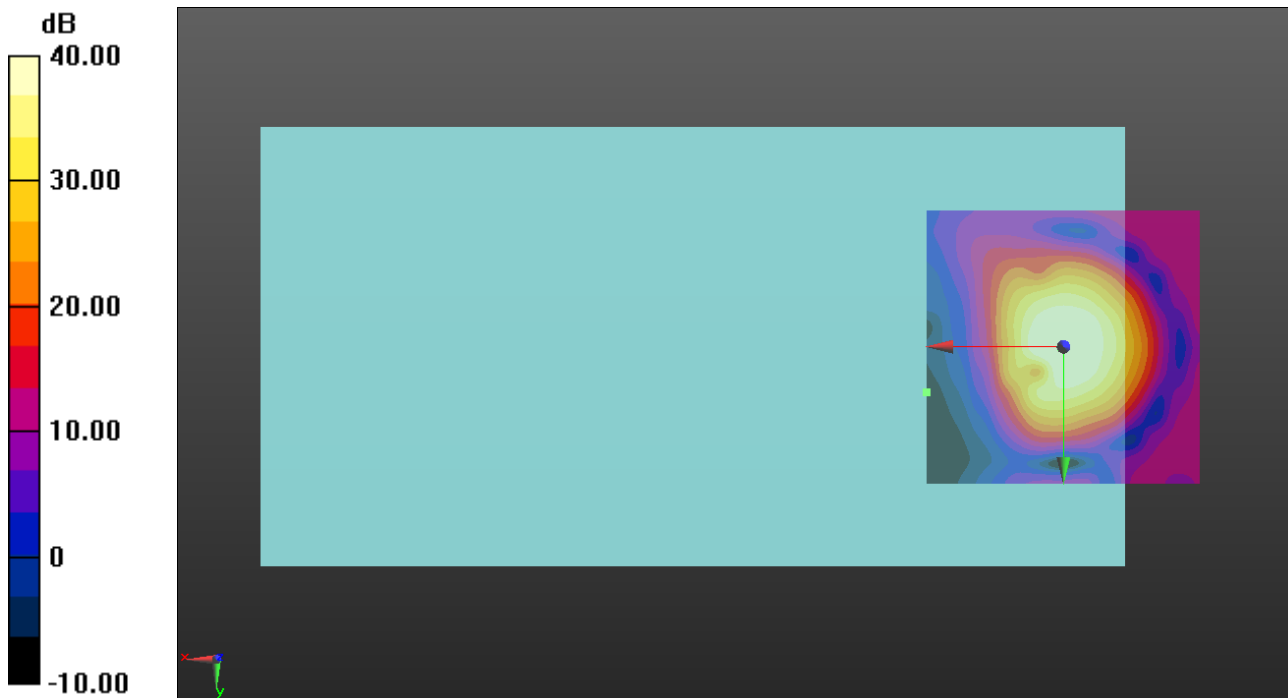
ABM1 comp = -3.55 dBA/m

BWC Factor = 0.16 dB

Location: 0.4, 0, 3.7 mm

ABM2 = -20.41 dBA/m

Location: 25, 8.3, 3.7 mm



WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA II ch9400 WB AMR 6.6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.76 dB

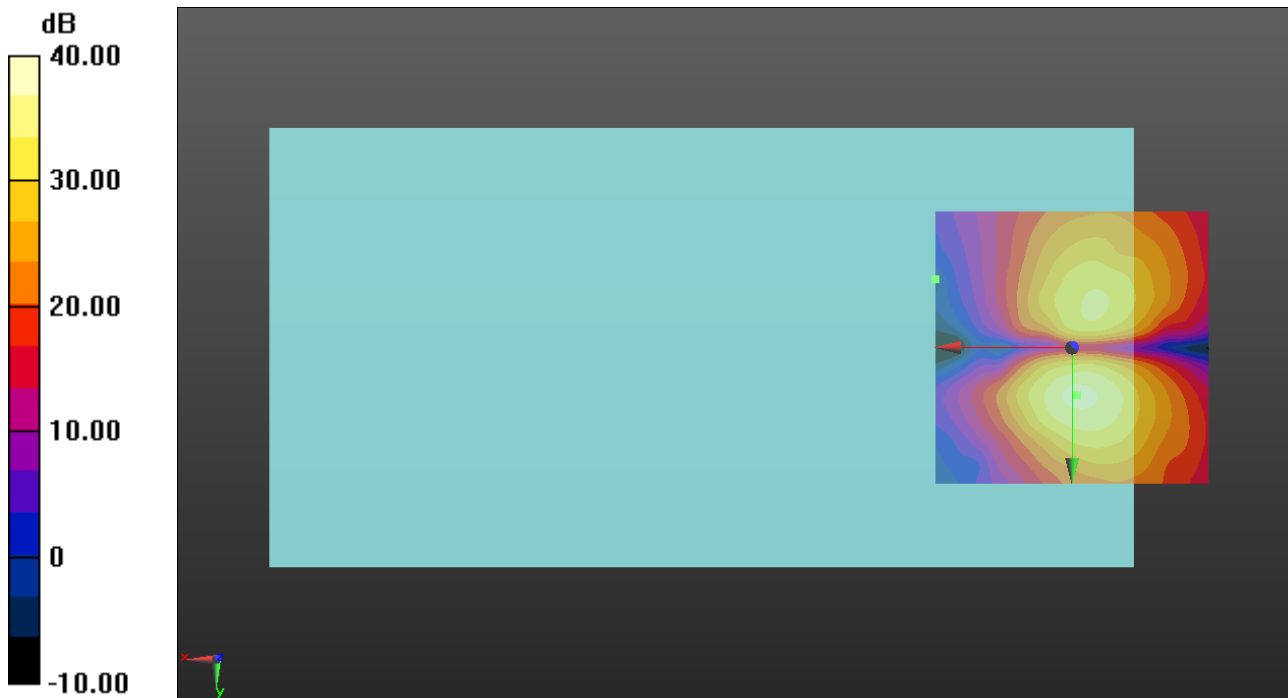
ABM1 comp = -12.30 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, 8.7, 3.7 mm

ABM2 = -25.12 dBA/m

Location: 25, -12.5, 3.7 mm



WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA V ch4183 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

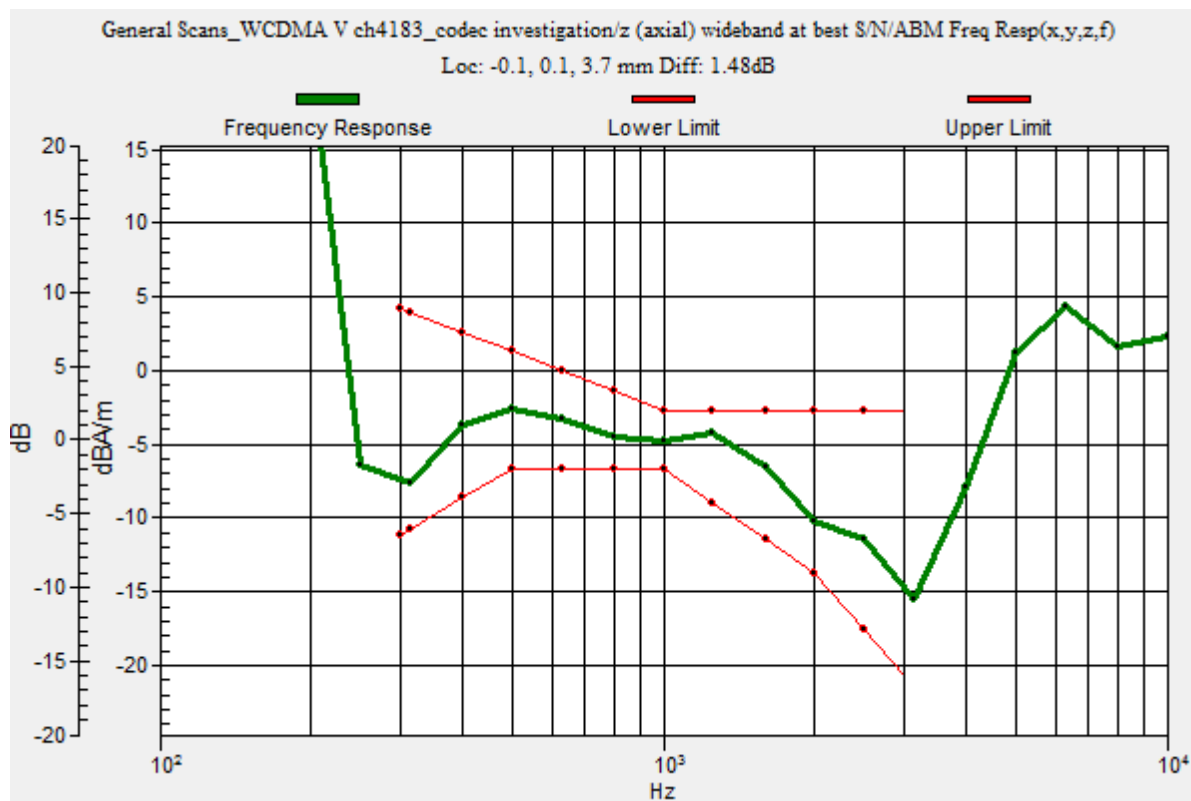
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.48 dB

BWC Factor = 10.80 dB

Location: -0.1, 0.1, 3.7 mm



WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA V ch4183 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 41.77 dB

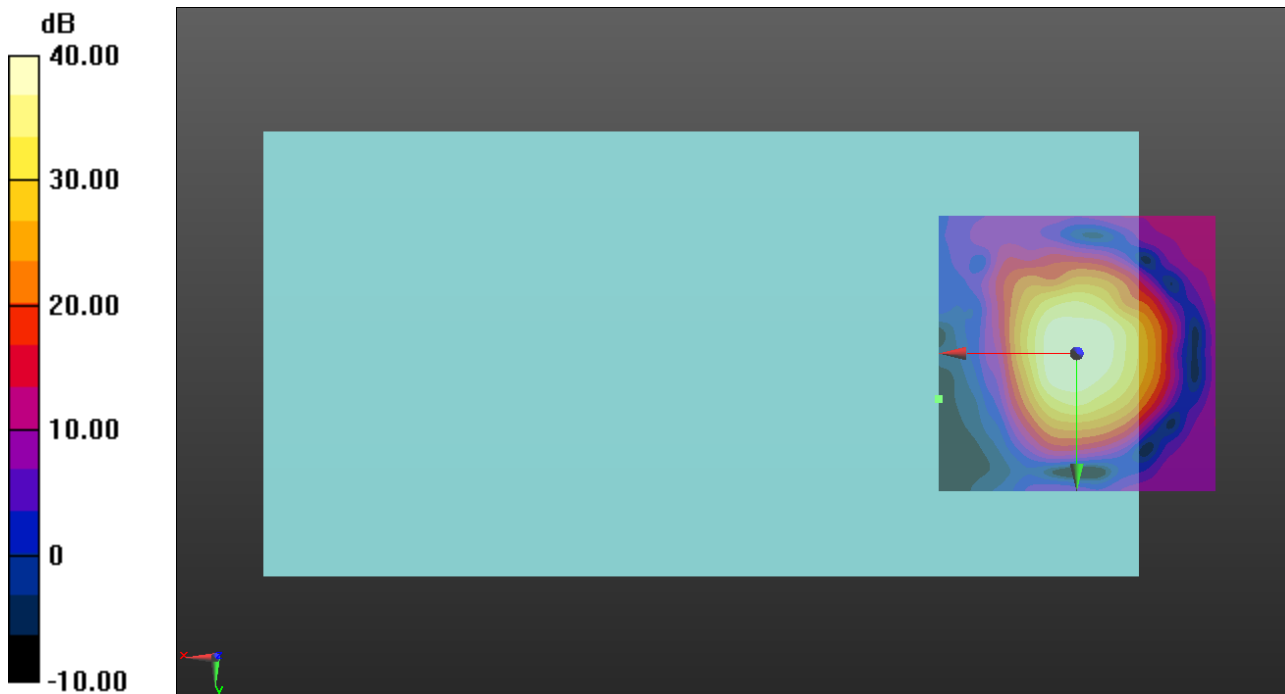
ABM1 comp = -4.25 dBA/m

BWC Factor = 0.16 dB

Location: 0, 0, 3.7 mm

ABM2 = -20.50 dBA/m

Location: 25, 8.3, 3.7 mm



WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA V ch4183 WB AMR 6.6/y (transversal) 4.2mm 50 x 50 2/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.20 dB

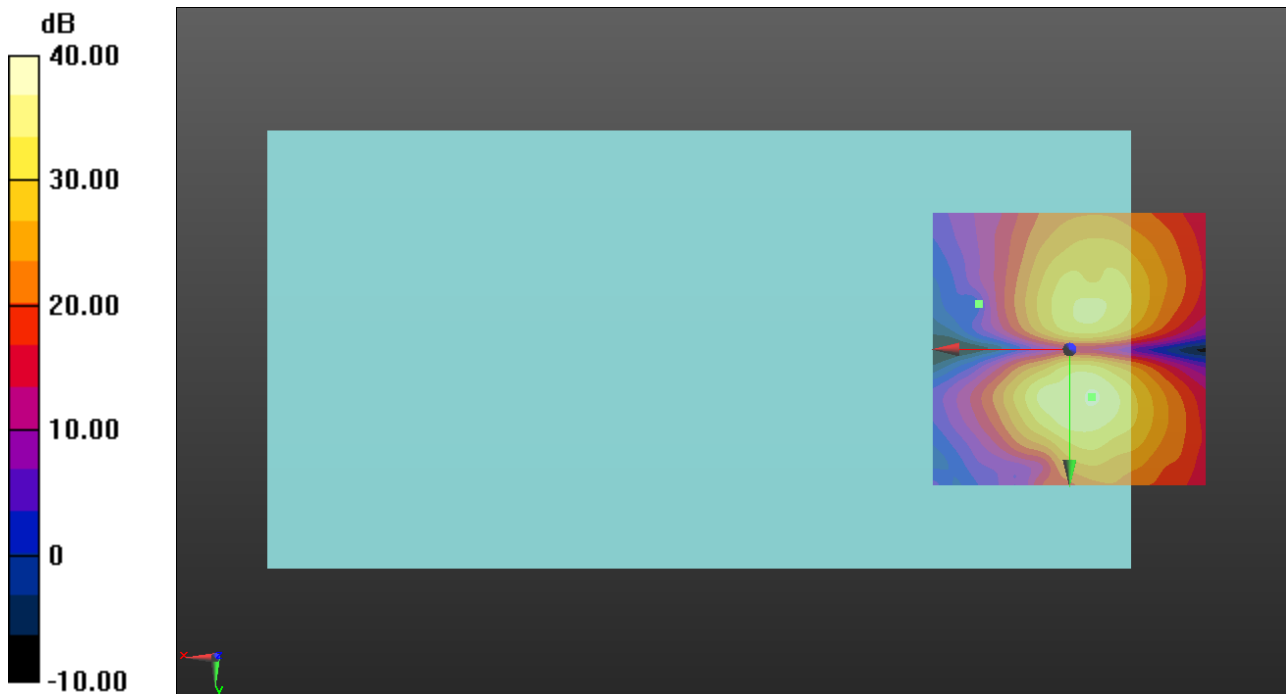
ABM1 comp = -13.39 dBA/m

BWC Factor = 0.16 dB

Location: -4.2, 8.7, 3.7 mm

ABM2 = -27.07 dBA/m

Location: 16.7, -8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 2 ch18900 16QAM RB1/0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid:

dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

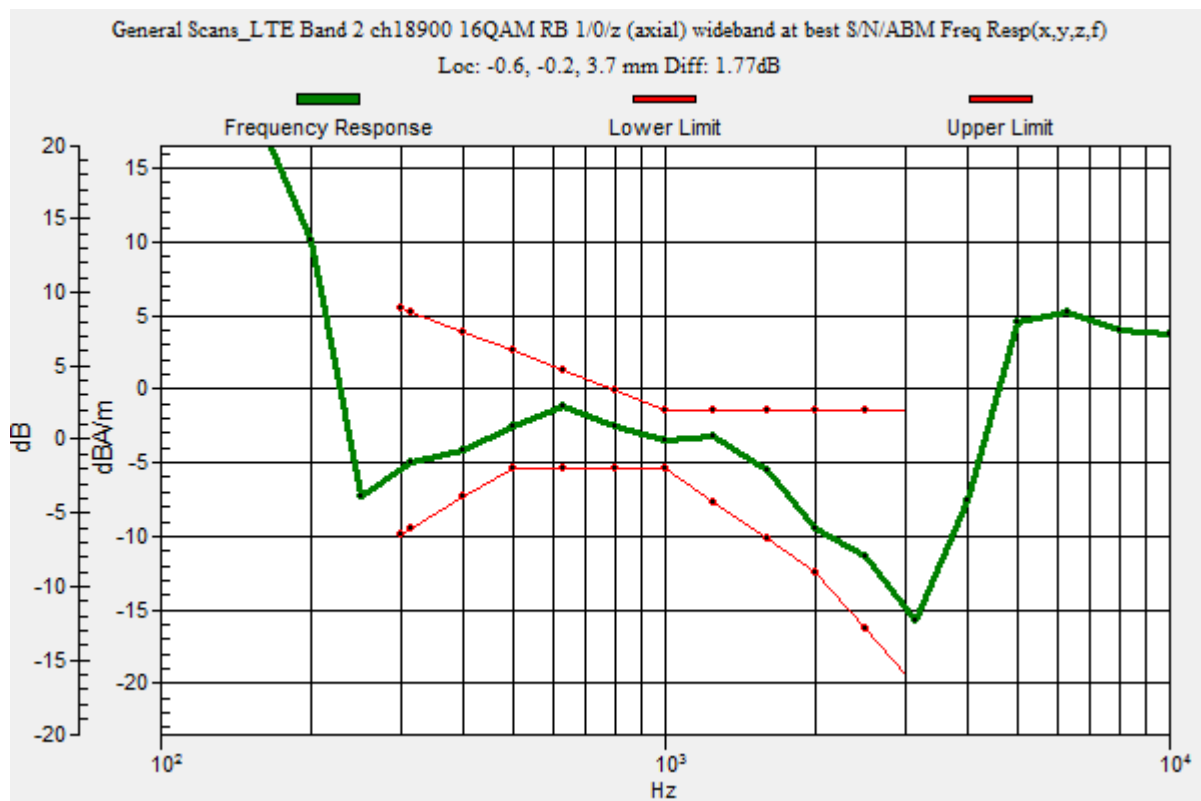
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.77 dB

BWC Factor = 10.80 dB

Location: -0.6, -0.2, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 2 ch18900 16QAM RB1/0 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.13 dB

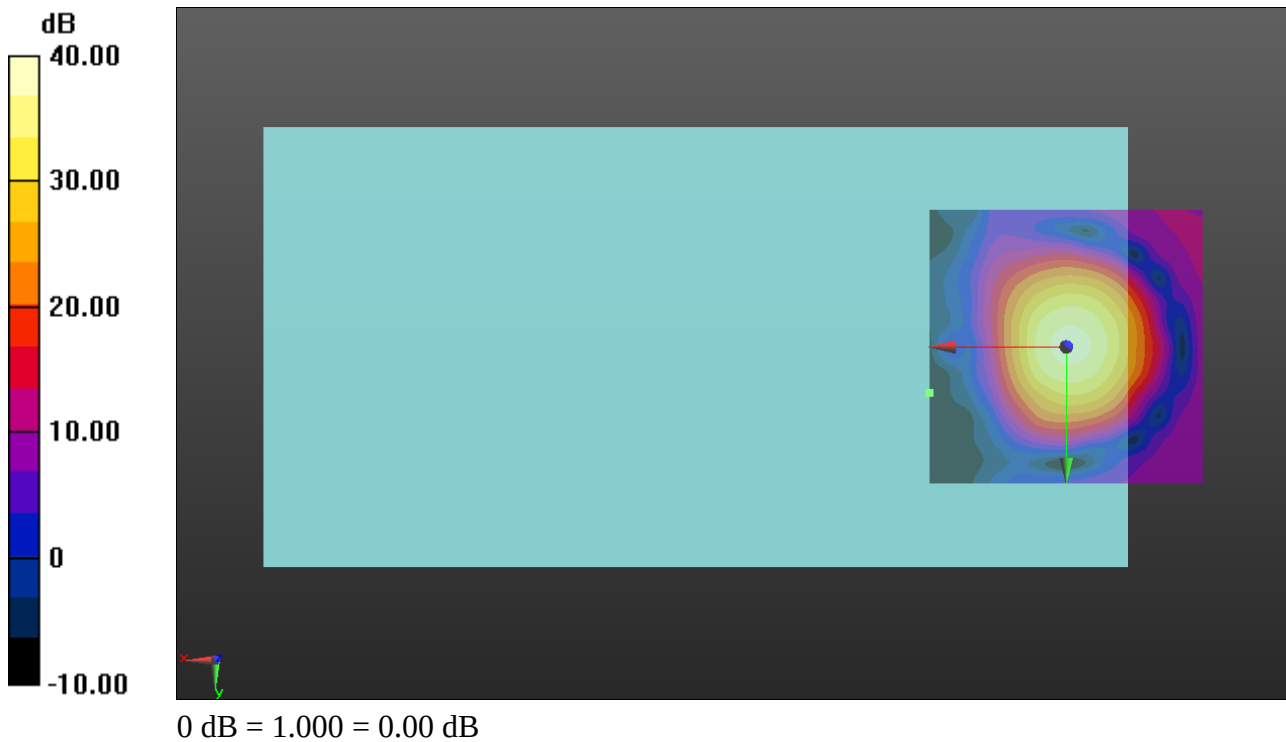
ABM1 comp = -4.08 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 0, 3.7 mm

ABM2 = -18.17 dBA/m

Location: 25, 8.3, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 2 ch18900 16QAM RB1/0 WB AMR 6.6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.66 dB

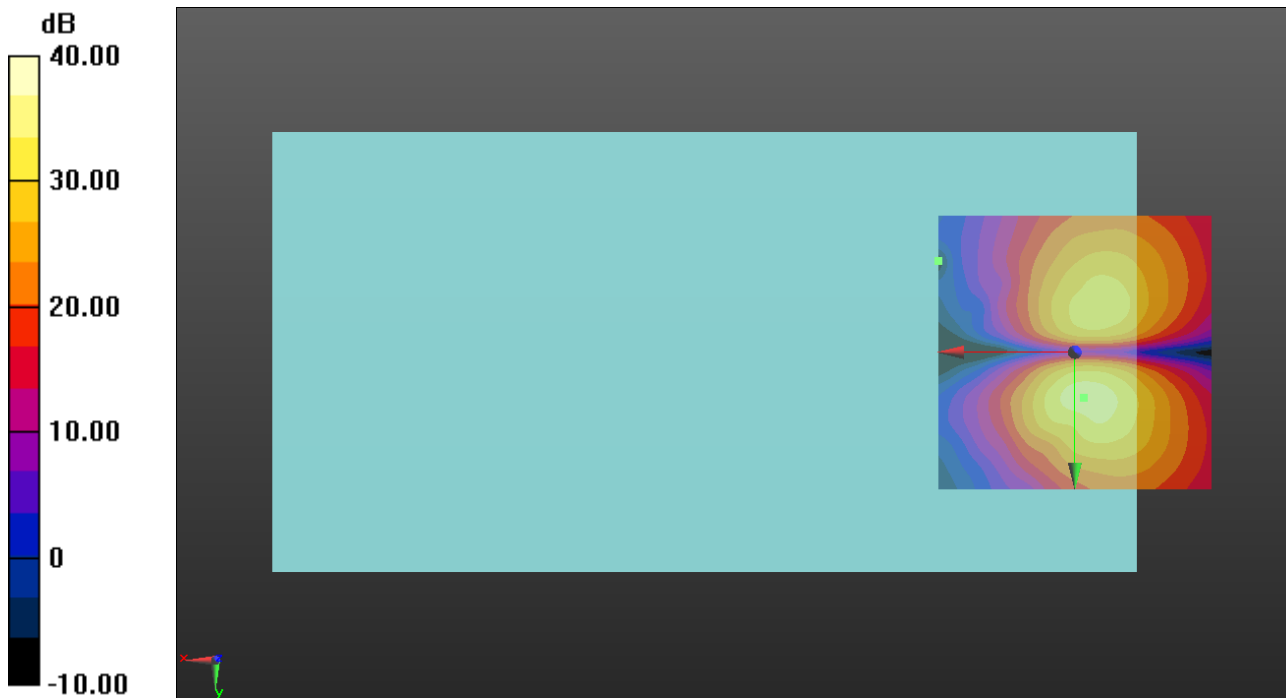
ABM1 comp = -13.28 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 8.3, 3.7 mm

ABM2 = -19.24 dBA/m

Location: 25, -16.7, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 16QAM RB1/0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid:

dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

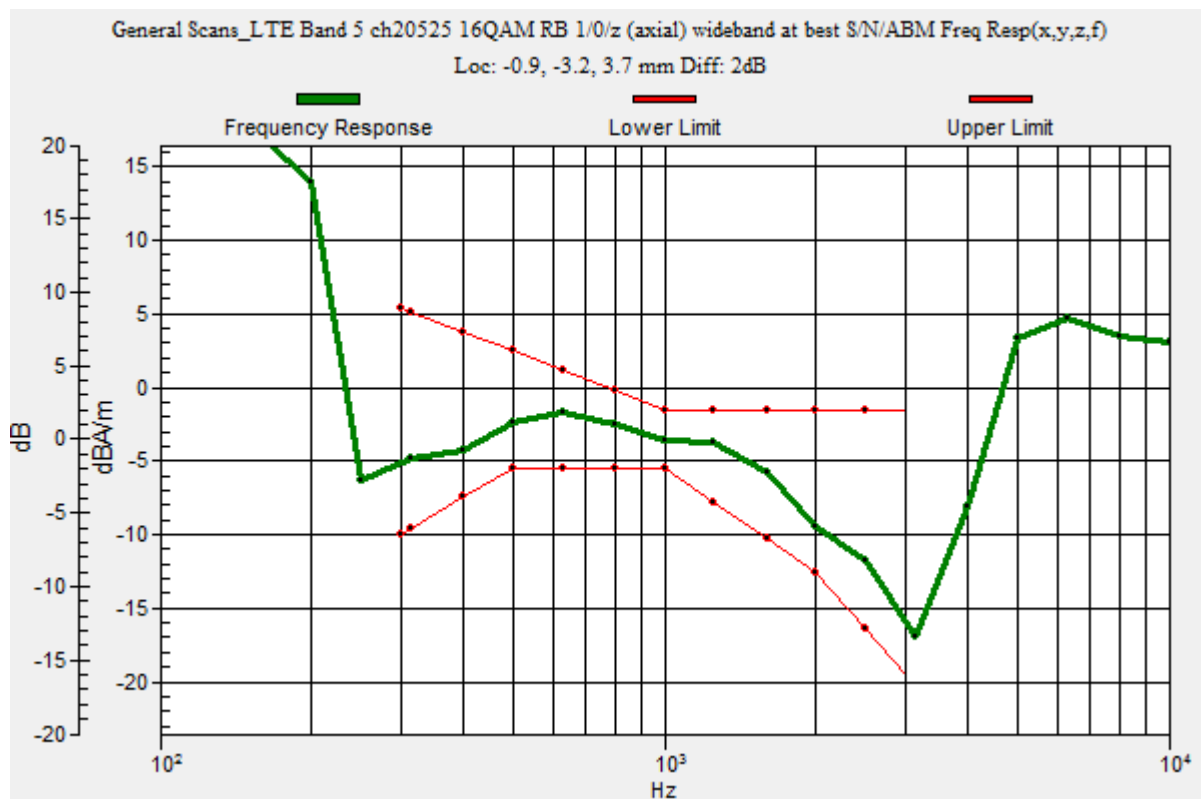
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -0.9, -3.2, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 16QAM RB1/0 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.53 dB

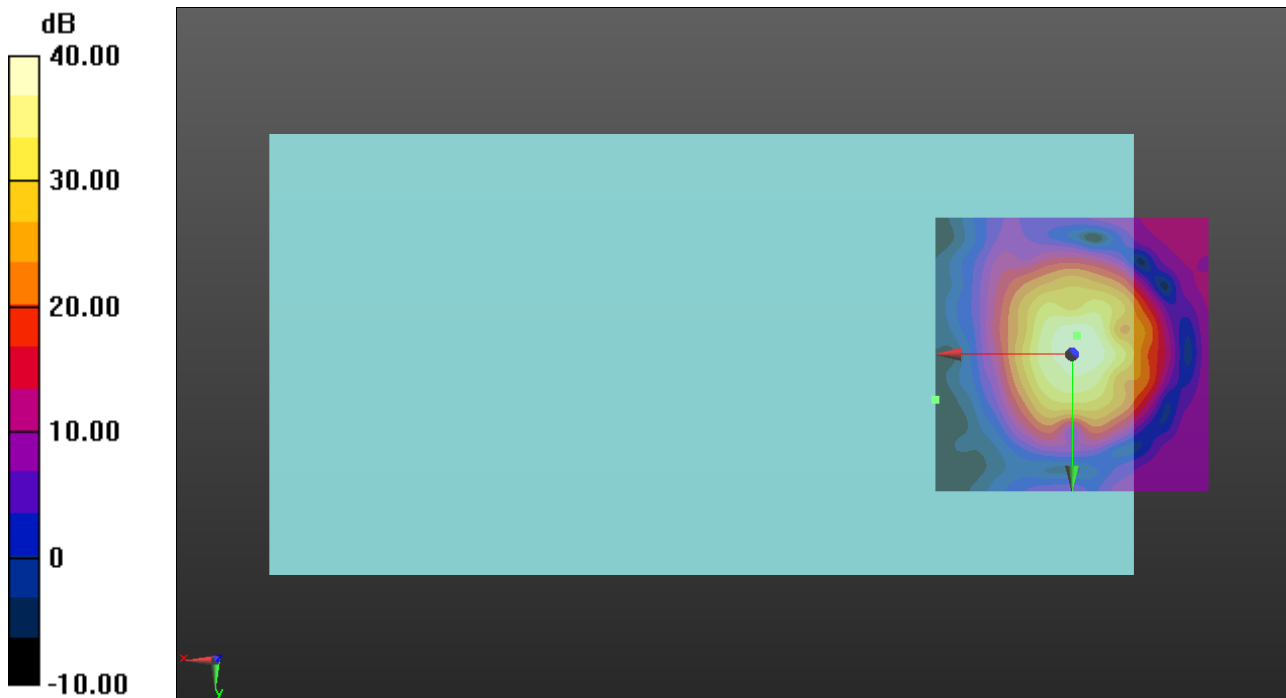
ABM1 comp = -4.87 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, -3.3, 3.7 mm

ABM2 = -19.26 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 16QAM RB1/0 WB AMR 6.6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.11 dB

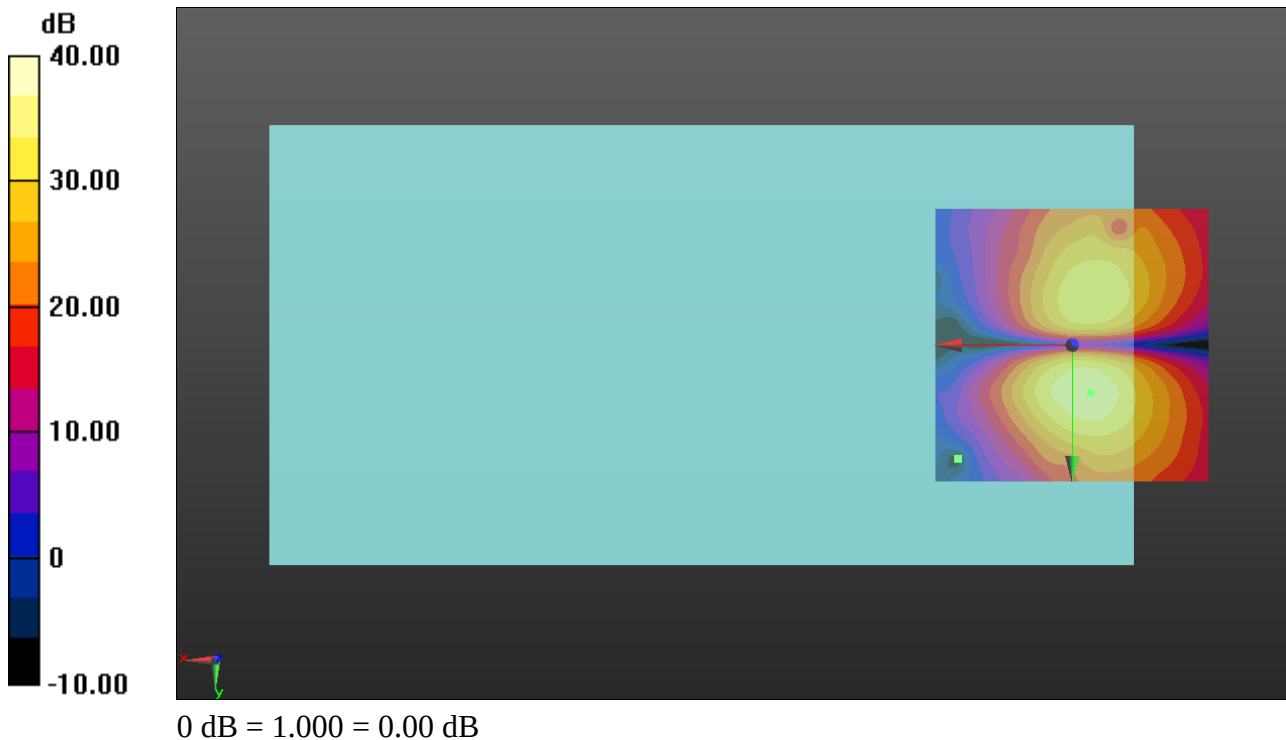
ABM1 comp = -13.66 dBA/m

BWC Factor = 0.16 dB

Location: -3.3, 8.7, 3.7 mm

ABM2 = -20.60 dBA/m

Location: 20.8, 20.8, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2535 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 ch21100 16QAM RB1/0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid:

dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

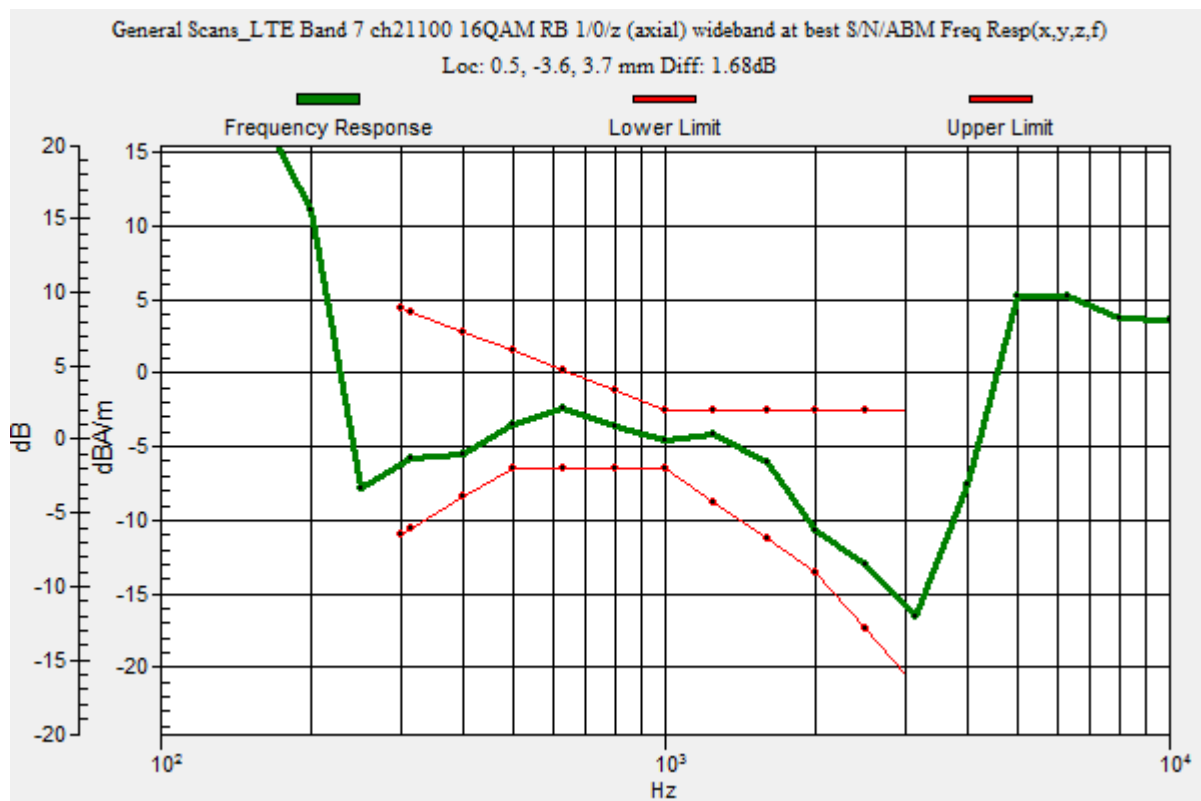
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.68 dB

BWC Factor = 10.80 dB

Location: 0.5, -3.6, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 ch21100 16QAM RB1/0 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.85 dB

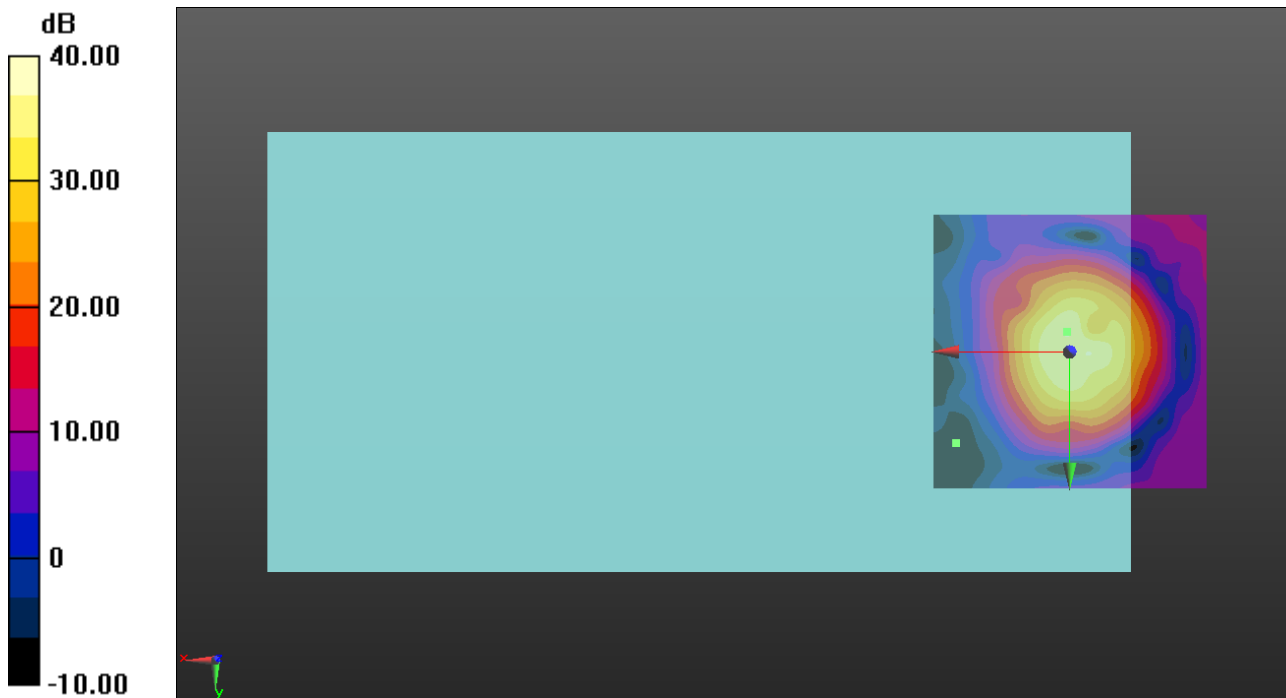
ABM1 comp = -5.40 dBA/m

BWC Factor = 0.16 dB

Location: 0.4, -3.8, 3.7 mm

ABM2 = -14.45 dBA/m

Location: 20.8, 16.7, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 ch21100 16QAM RB1/0 WB AMR 6.6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.27 dB

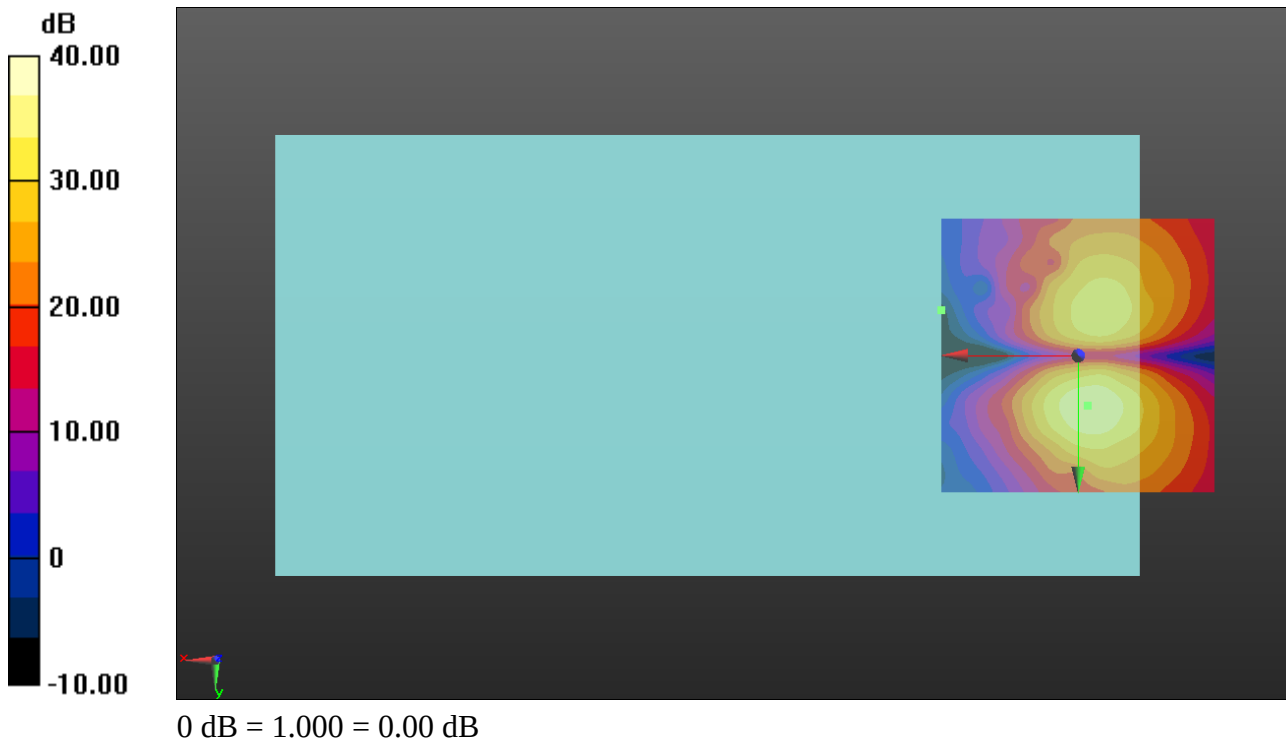
ABM1 comp = -13.01 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 9.2, 3.7 mm

ABM2 = -22.87 dBA/m

Location: 25, -8.3, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 704 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23060 16QAM RB1/0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

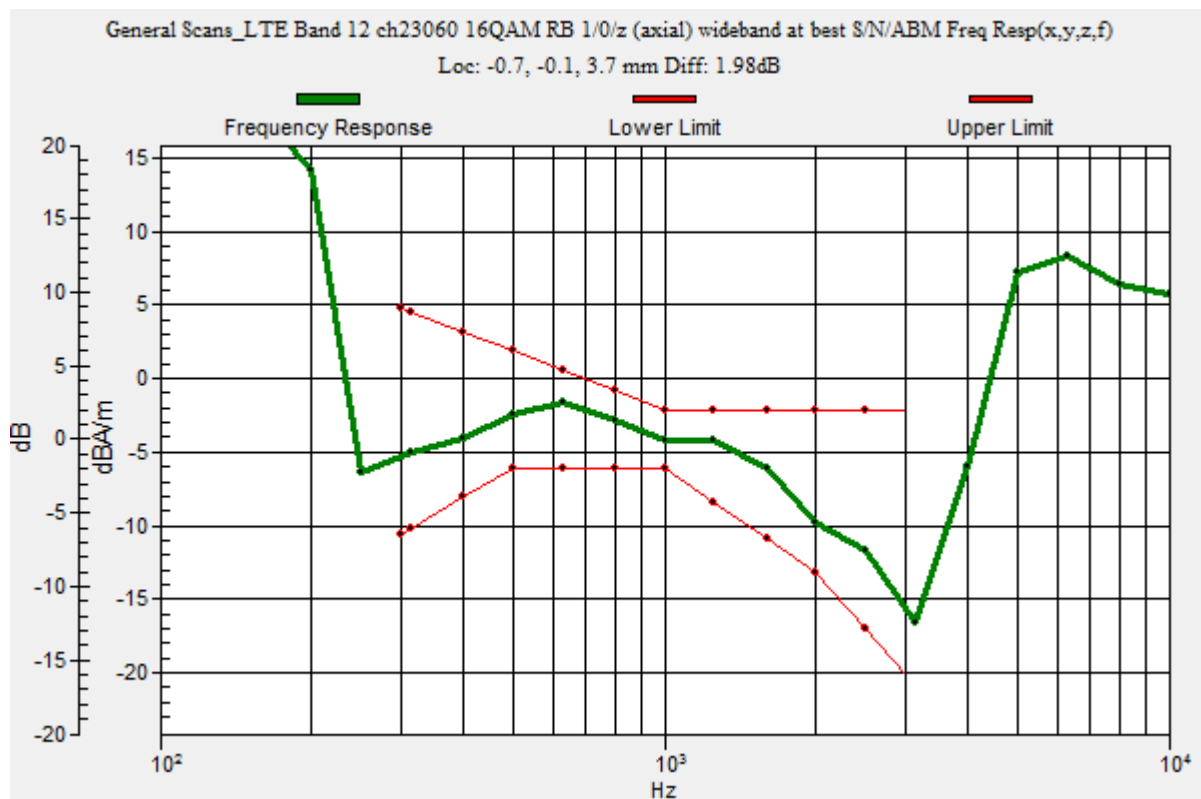
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.98 dB

BWC Factor = 10.80 dB

Location: -0.7, -0.1, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 704 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23060 16QAM RB1/0 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.37 dB

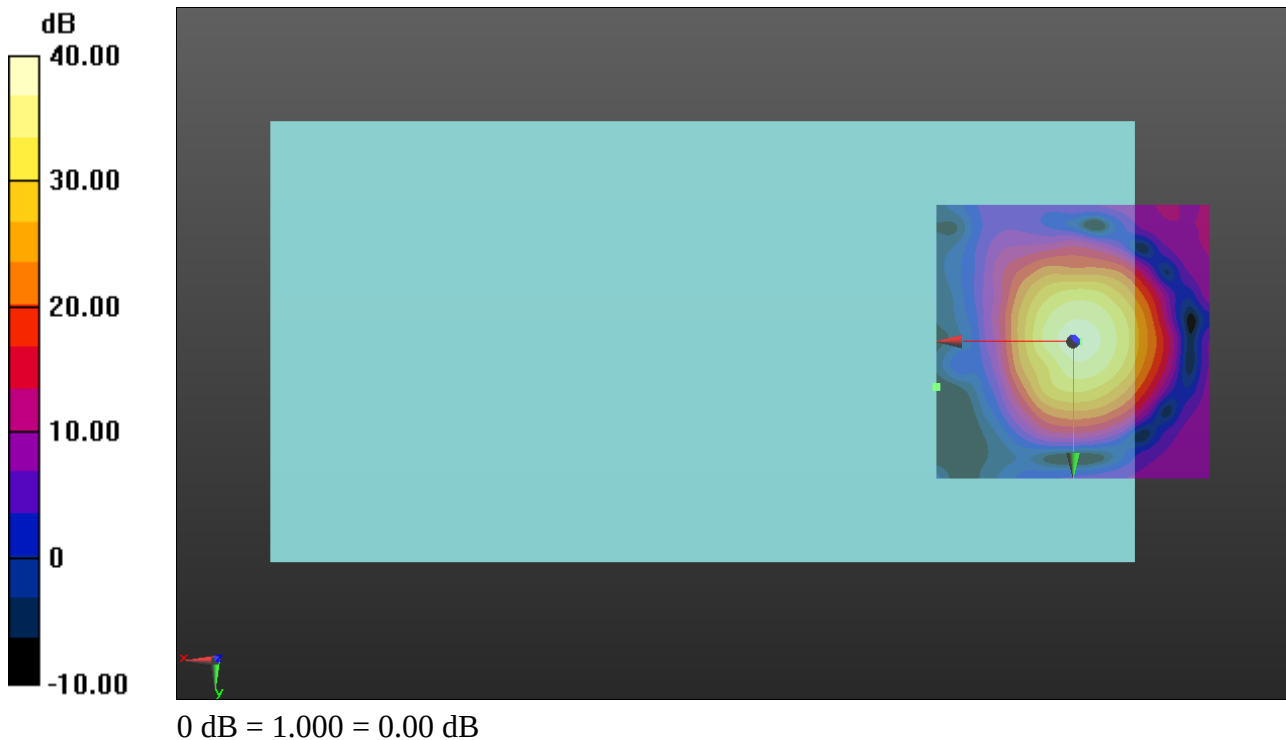
ABM1 comp = -4.87 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, 0, 3.7 mm

ABM2 = -18.86 dBA/m

Location: 25, 8.3, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 704 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23060 16QAM RB1/0 WB AMR 6.6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

(121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.06 dB

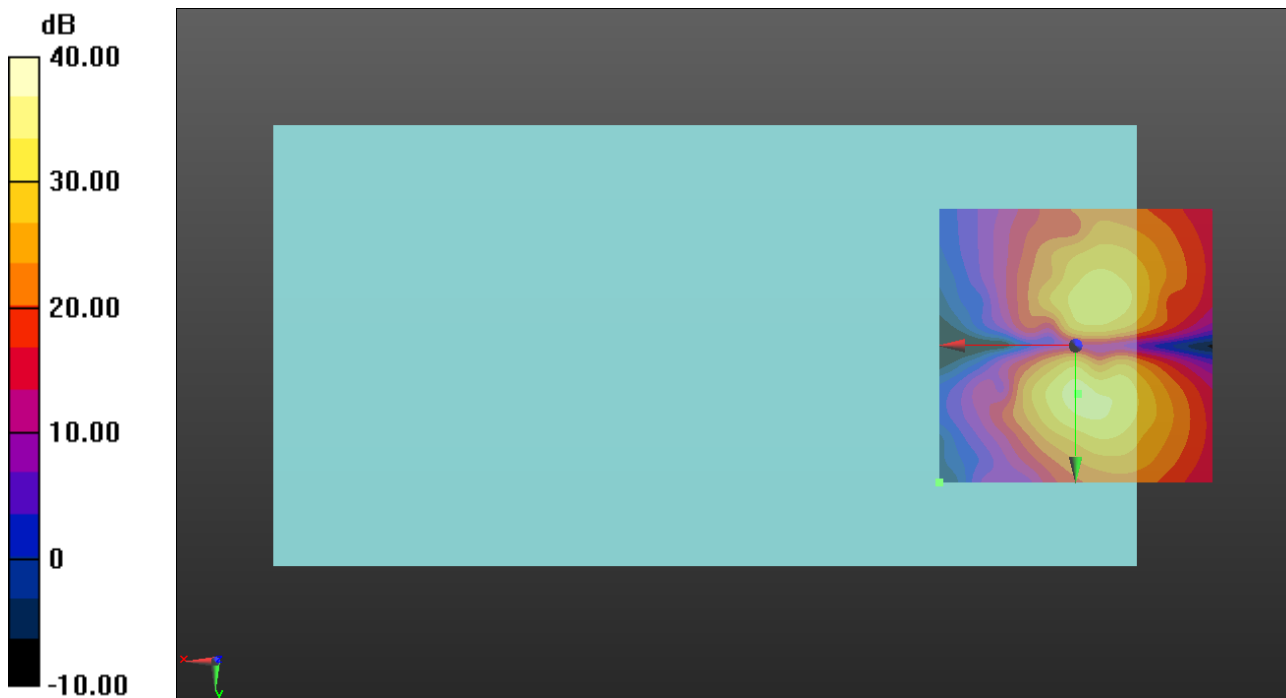
ABM1 comp = -13.75 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 8.7, 3.7 mm

ABM2 = -25.44 dBA/m

Location: 25, 25, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2310 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 ch27710 16QAM RB1/0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

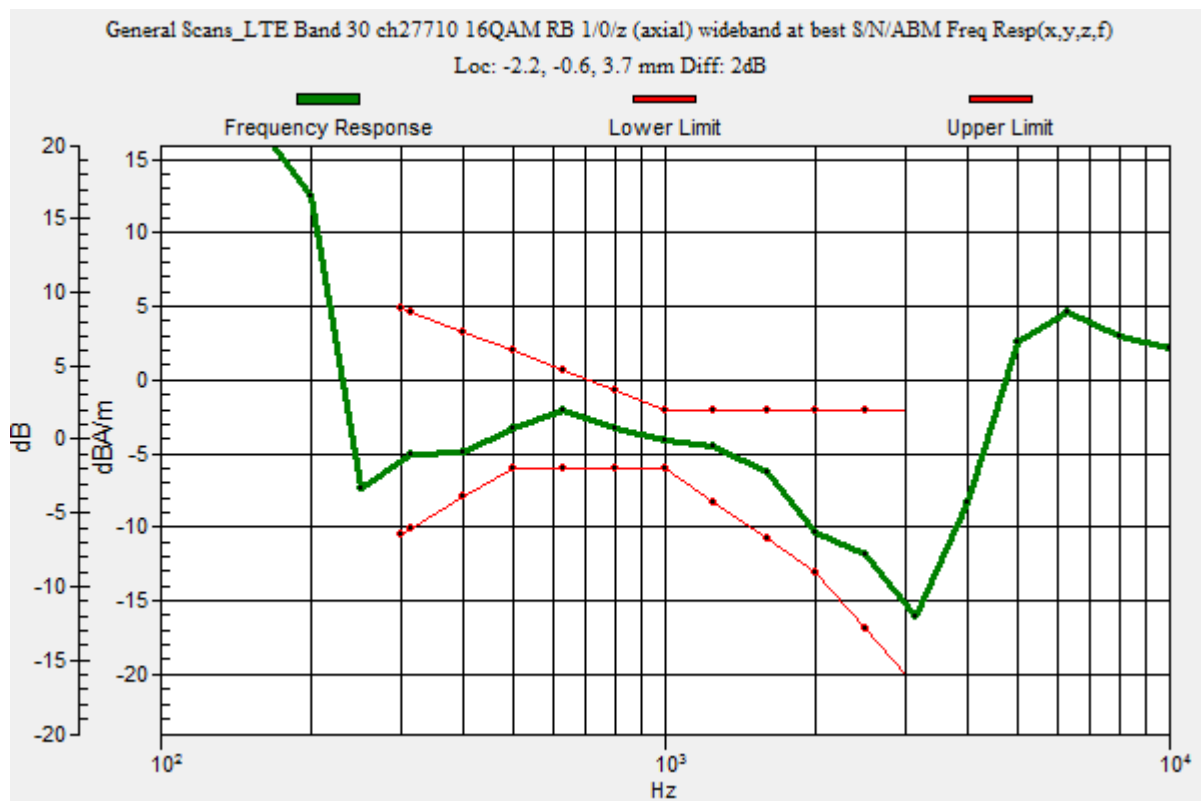
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -2.2, -0.6, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 ch27710 16QAM RB1/0 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.23 dB

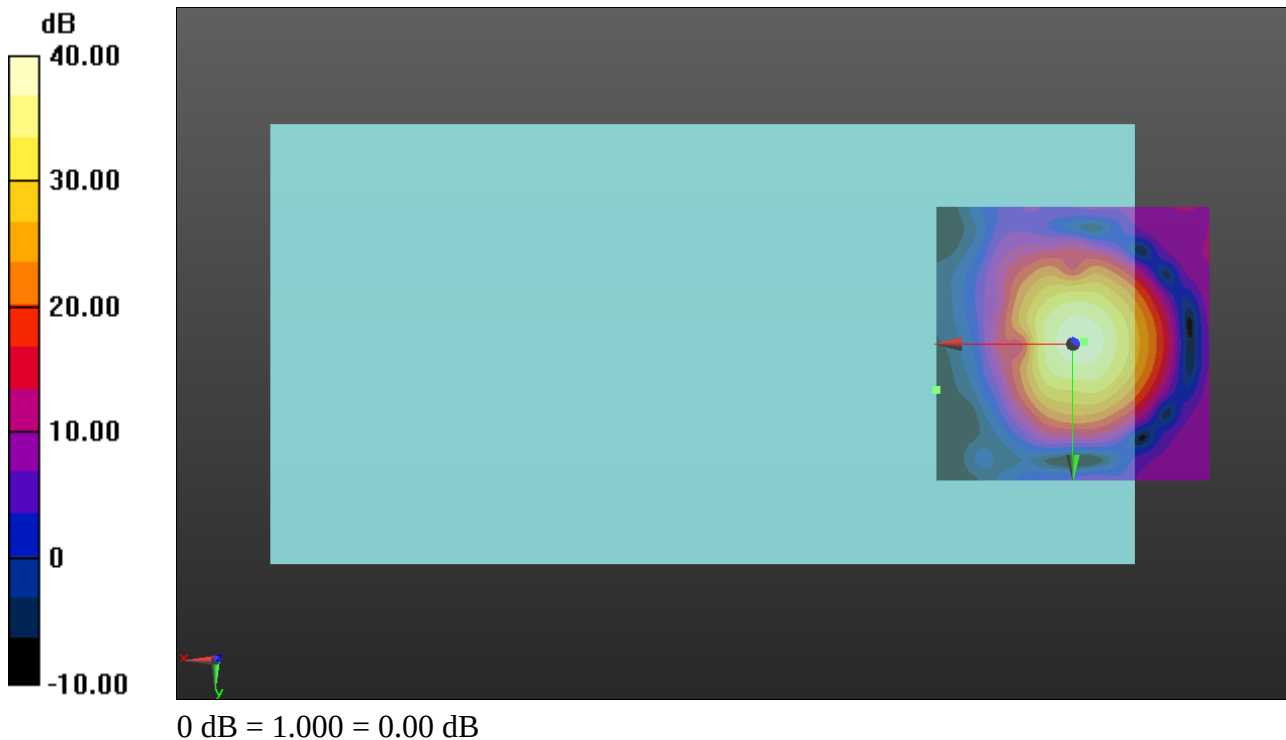
ABM1 comp = -5.08 dBA/m

BWC Factor = 0.16 dB

Location: -2.1, -0.4, 3.7 mm

ABM2 = -19.35 dBA/m

Location: 25, 8.3, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 ch27710 16QAM RB1/0 WB AMR 6.6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

(121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.54 dB

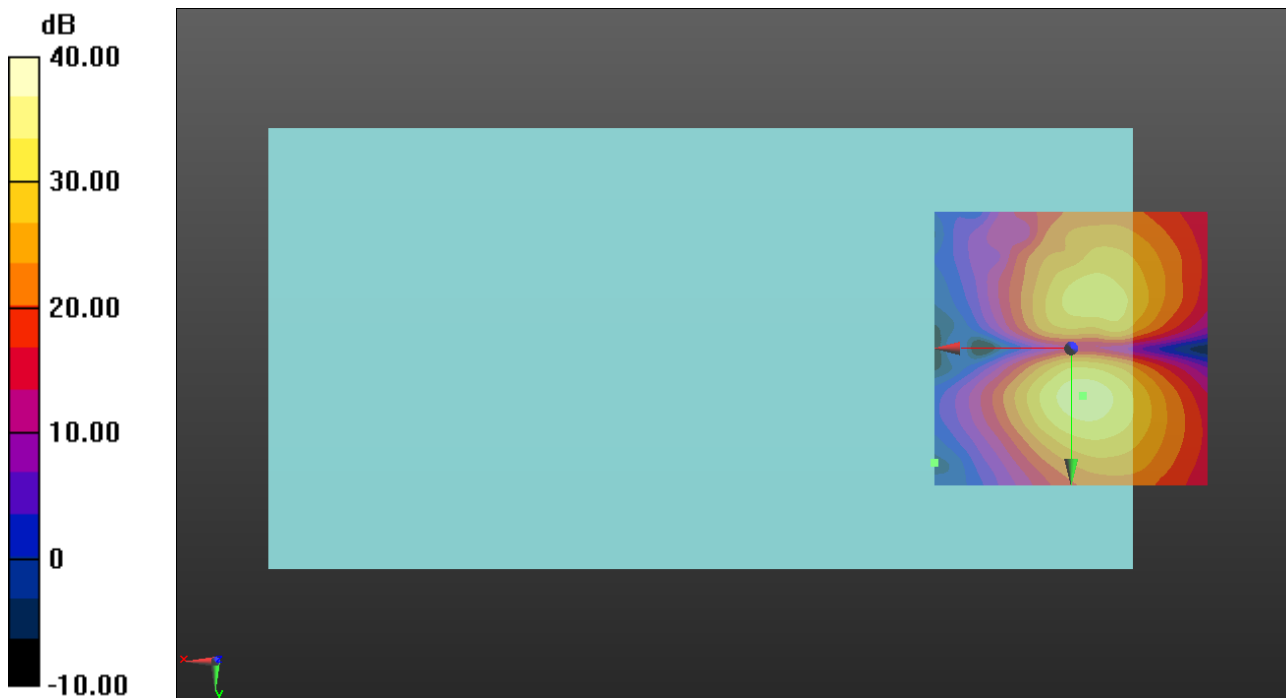
ABM1 comp = -13.66 dBA/m

BWC Factor = 0.16 dB

Location: -2.1, 8.7, 3.7 mm

ABM2 = -25.79 dBA/m

Location: 25, 20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 16QAM RB1/0 WB AMR 6.6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

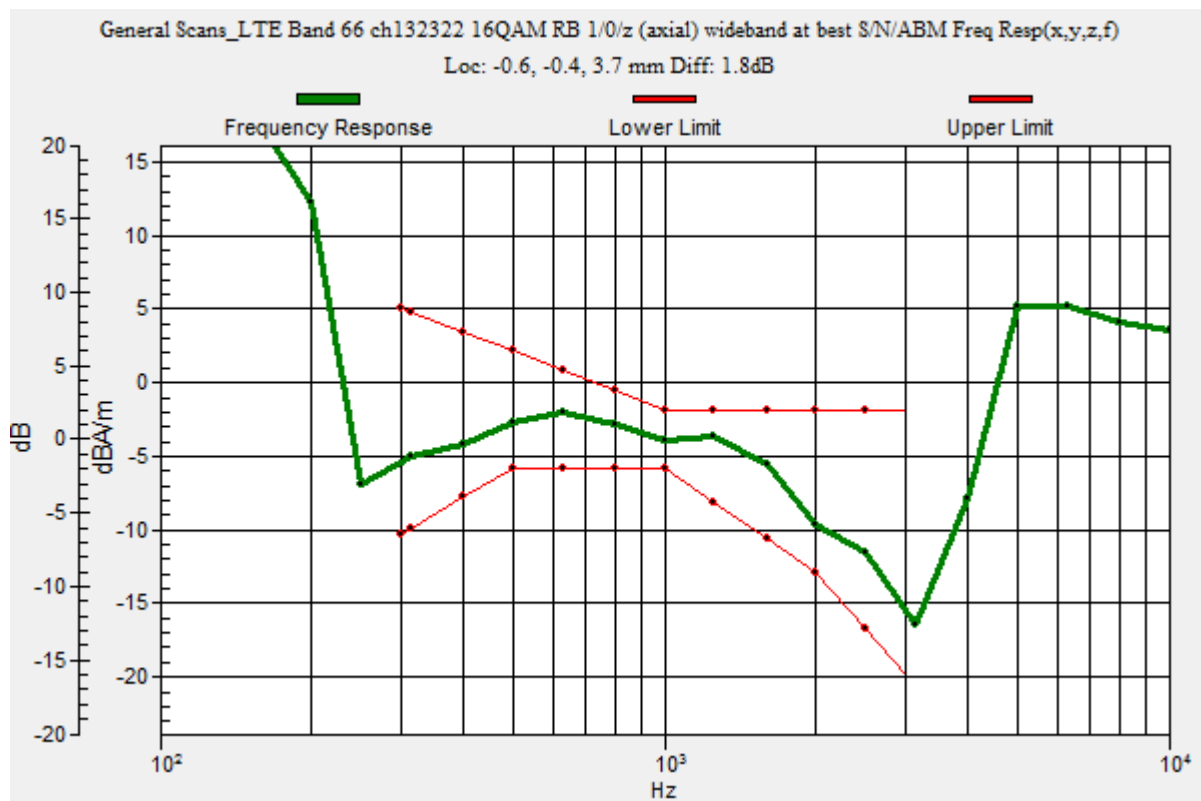
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.80 dB

BWC Factor = 10.80 dB

Location: -0.6, -0.4, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 16QAM RB1/0 WB AMR 6.6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.11 dB

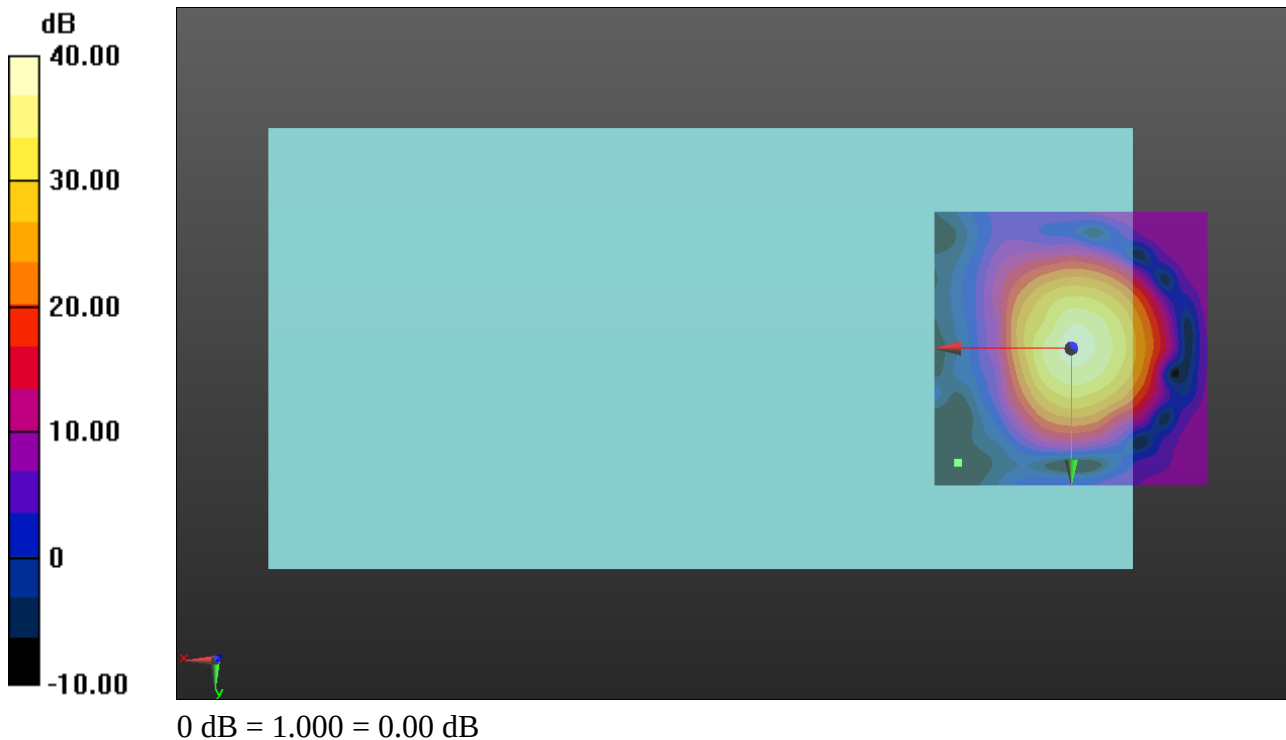
ABM1 comp = -4.56 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, -0.4, 3.7 mm

ABM2 = -14.77 dBA/m

Location: 20.8, 20.8, 3.7 mm



LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 16QAM RB1/0 WB AMR 6.6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z)

(121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.45 dB

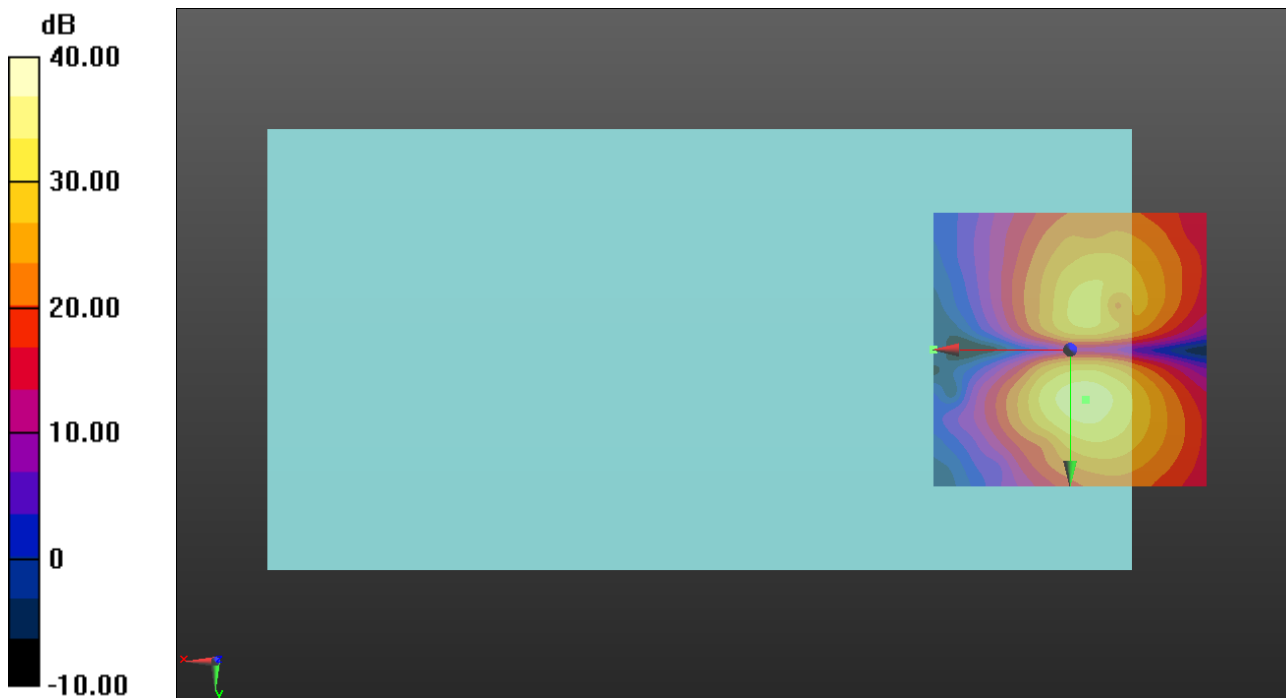
ABM1 comp = -13.98 dBA/m

BWC Factor = 0.16 dB

Location: -2.9, 9.2, 3.7 mm

ABM2 = -24.61 dBA/m

Location: 25, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2310 MHz;Duty Cycle: 1:1.59956

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 40 ch38750 QPSK RB1/0 NB AMR 4.75/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement

grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

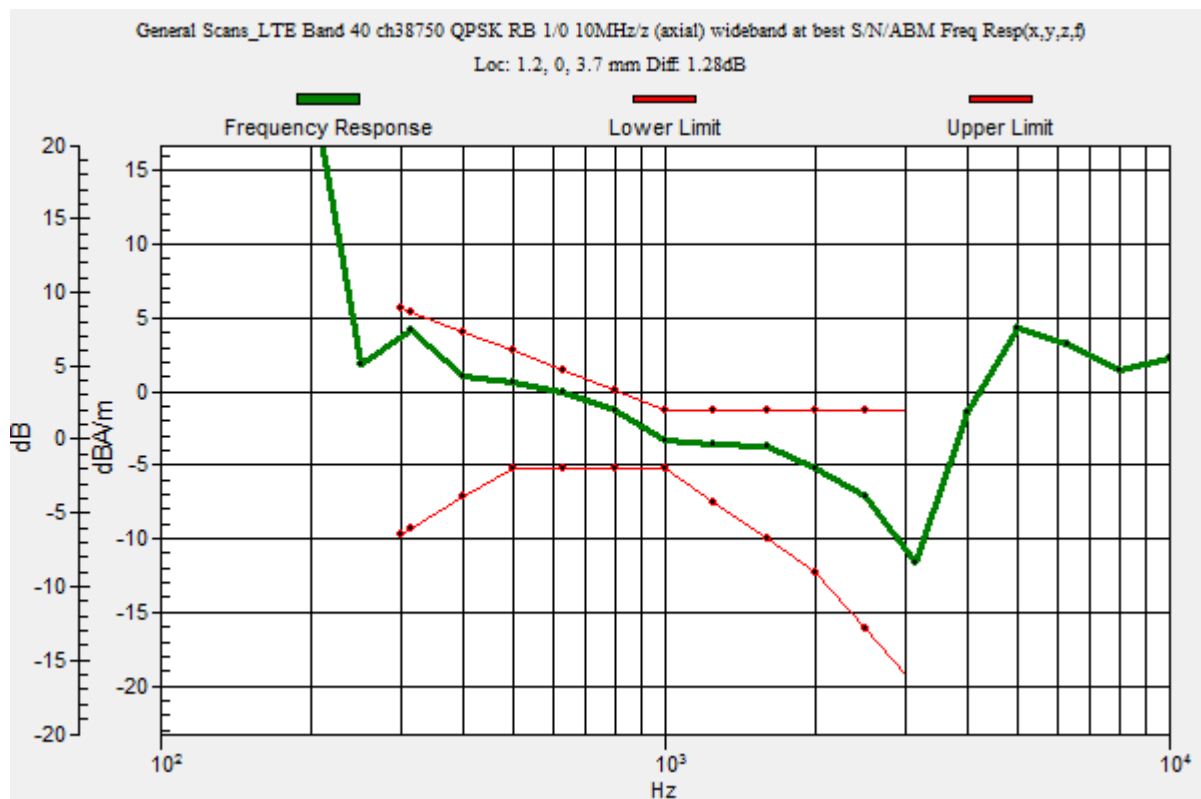
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.28 dB

BWC Factor = 10.80 dB

Location: 1.2, 0, 3.7 mm



LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 40 ch38750 QPSK RB1/0 NB AMR 4.75/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 45.48 dB

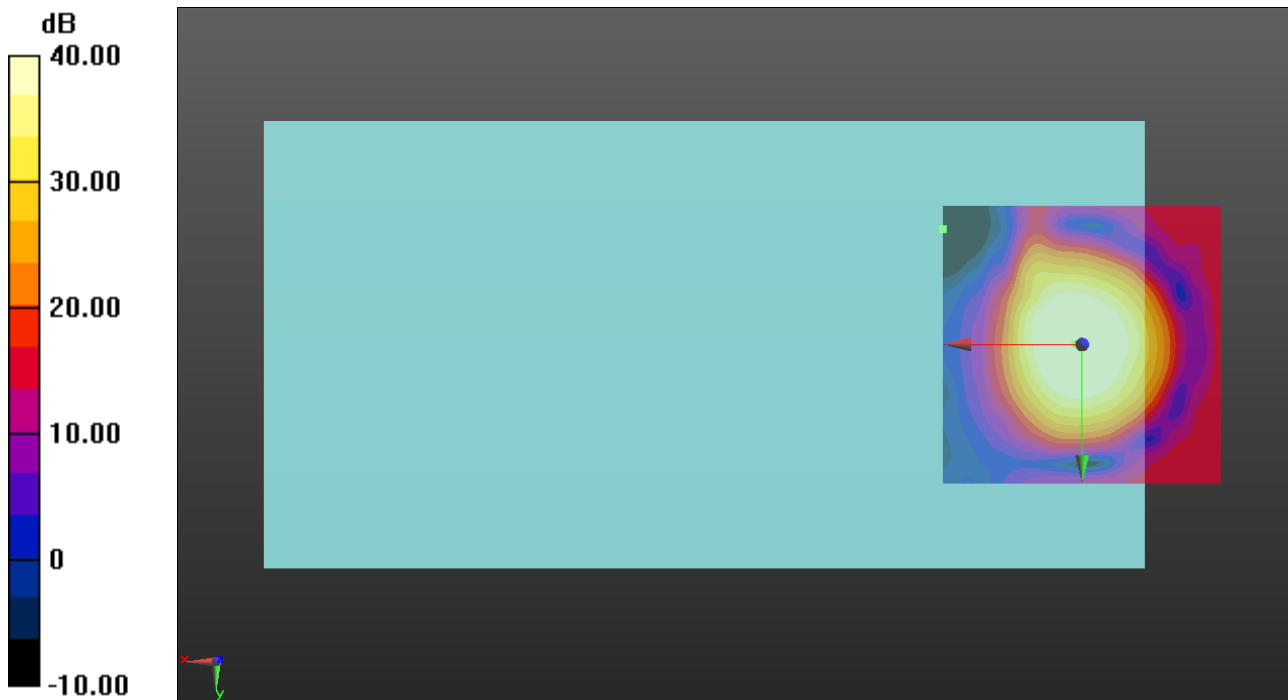
ABM1 comp = 3.43 dBA/m

BWC Factor = 0.16 dB

Location: 1.3, 0, 3.7 mm

ABM2 = -13.18 dBA/m

Location: 25, -20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 40 ch38750 QPSK RB1/0 NB AMR 4.75/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 41.19 dB

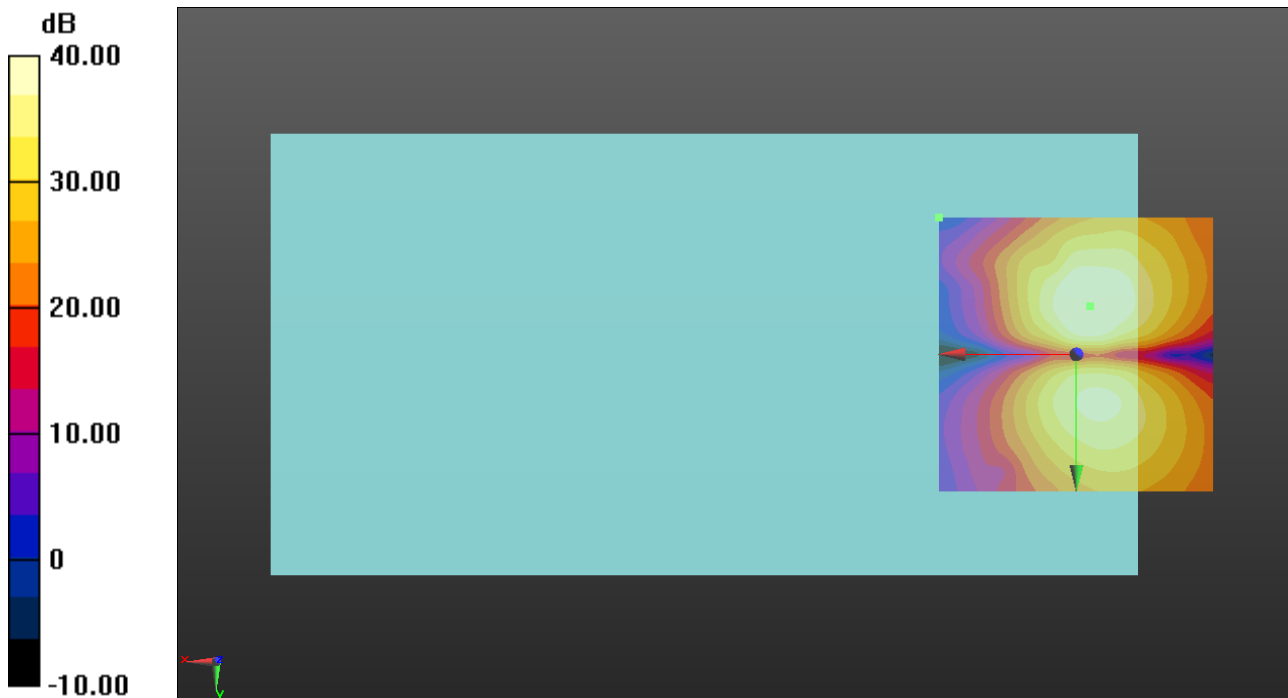
ABM1 comp = -6.21 dBA/m

BWC Factor = 0.16 dB

Location: -2.5, -8.8, 3.7 mm

ABM2 = -22.13 dBA/m

Location: 25, -25, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 ch40620 QPSK RB1/0 NB AMR 4.75/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement

grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 47.7

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

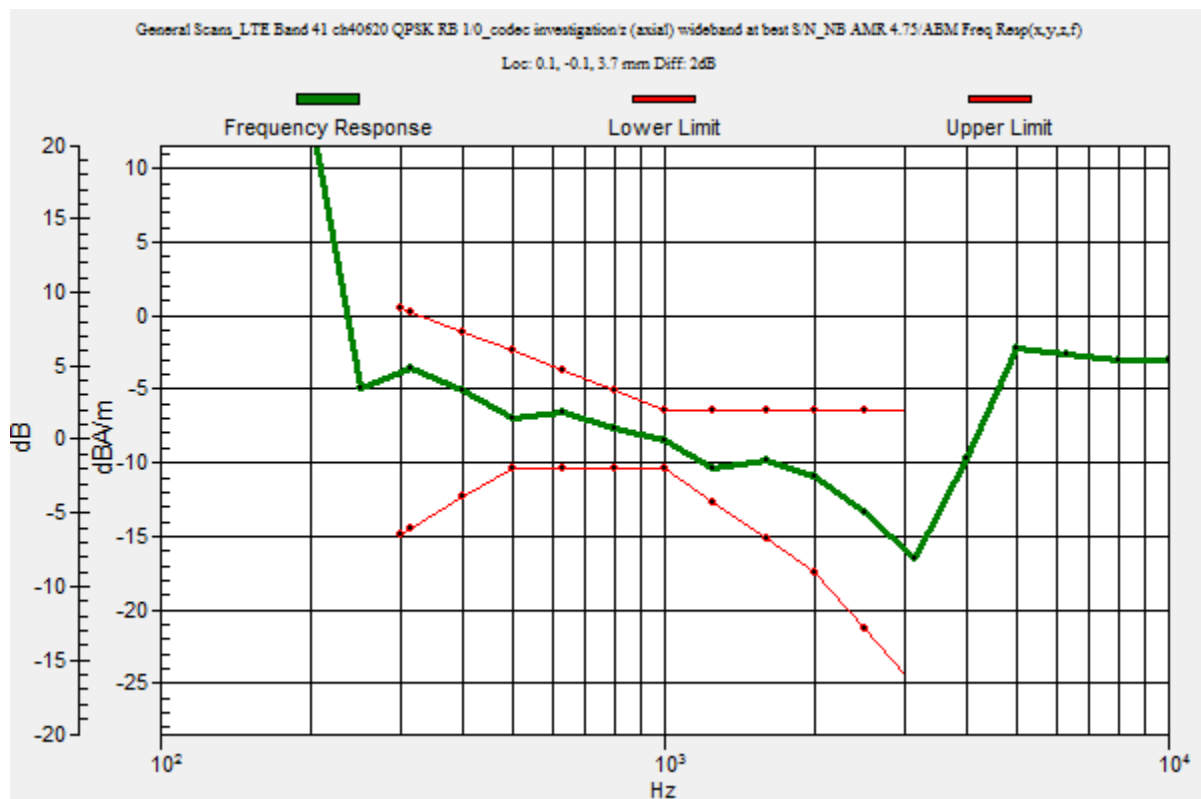
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 0.1, -0.1, 3.7 mm



LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 ch40620 QPSK RB1/0 NB AMR 4.75/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated

grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 41.28 dB

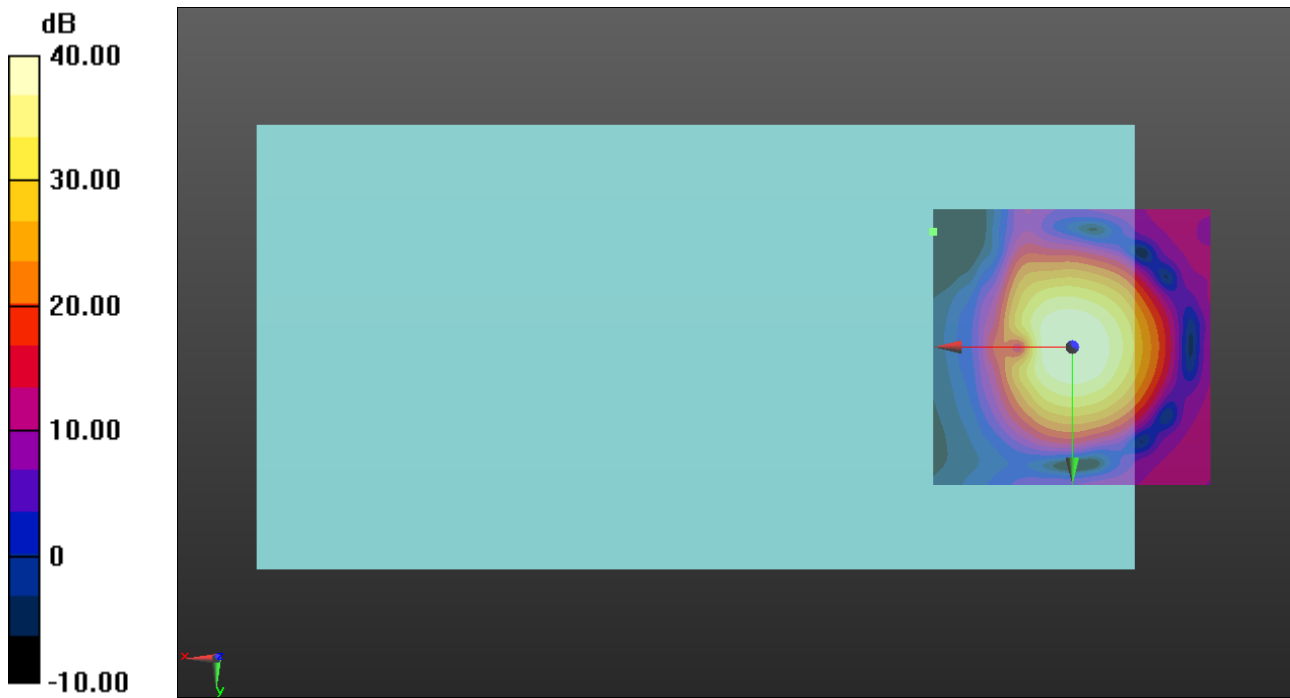
ABM1 comp = -2.33 dBA/m

BWC Factor = 0.16 dB

Location: 0, 0, 3.7 mm

ABM2 = -16.11 dBA/m

Location: 25, -20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 ch40620 QPSK RB1/0 NB AMR 4.75/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 24.32

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 34.84 dB

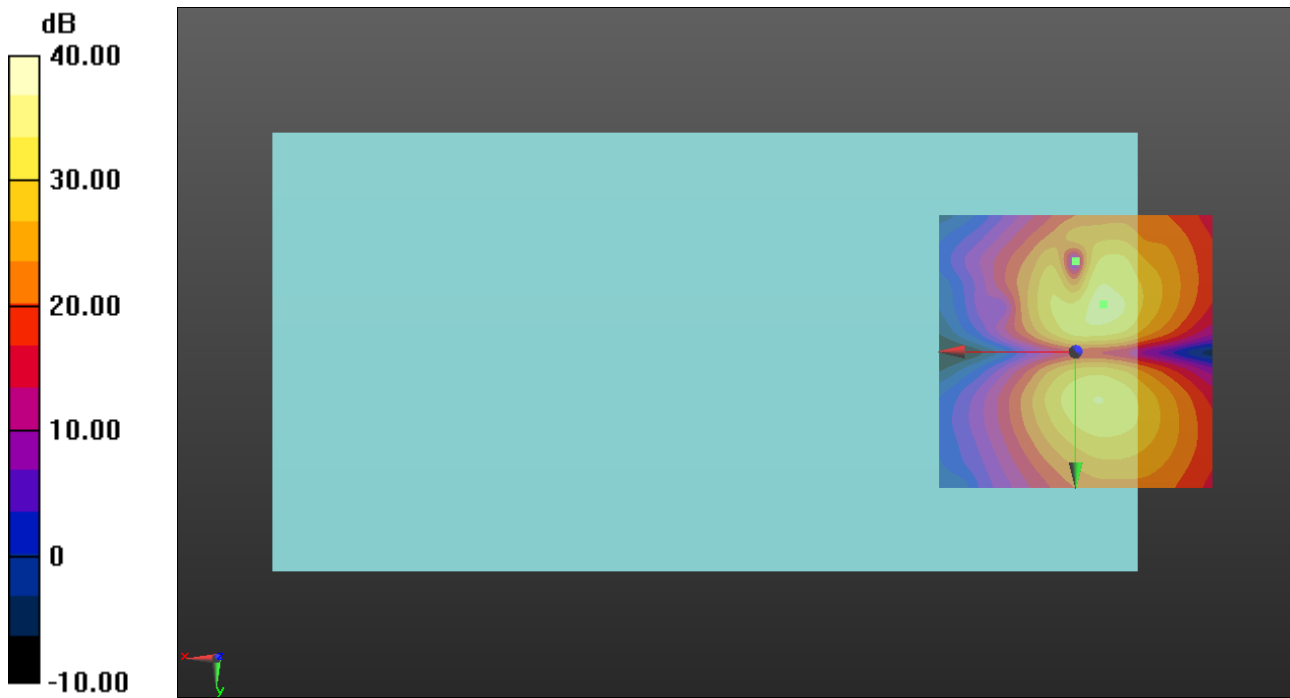
ABM1 comp = -13.63 dBA/m

BWC Factor = 0.16 dB

Location: -5, -8.8, 3.7 mm

ABM2 = -21.64 dBA/m

Location: 0, -16.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11b ch6 1Mbps NB AMR 12.2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 30.09

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

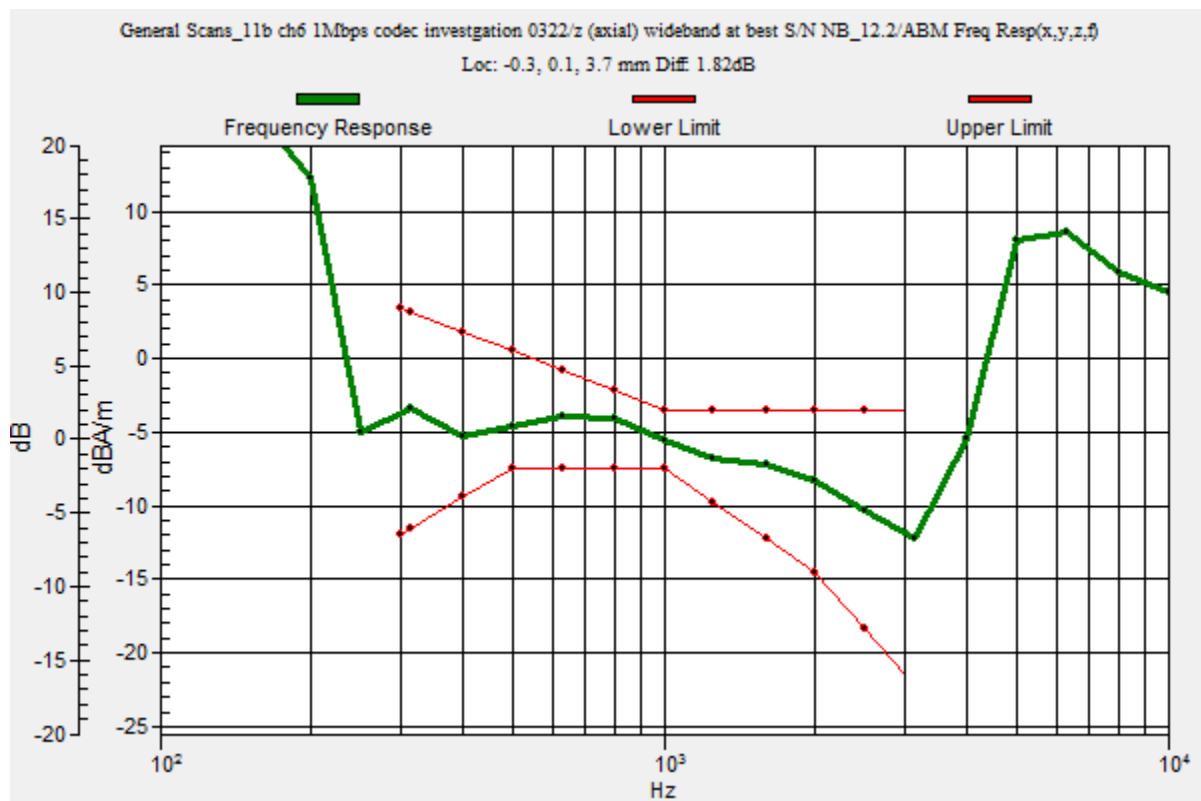
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.82 dB

BWC Factor = 10.80 dB

Location: -0.3, 0.1, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11b ch6 1Mbps NB AMR 12.2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm,

dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 33.44 dB

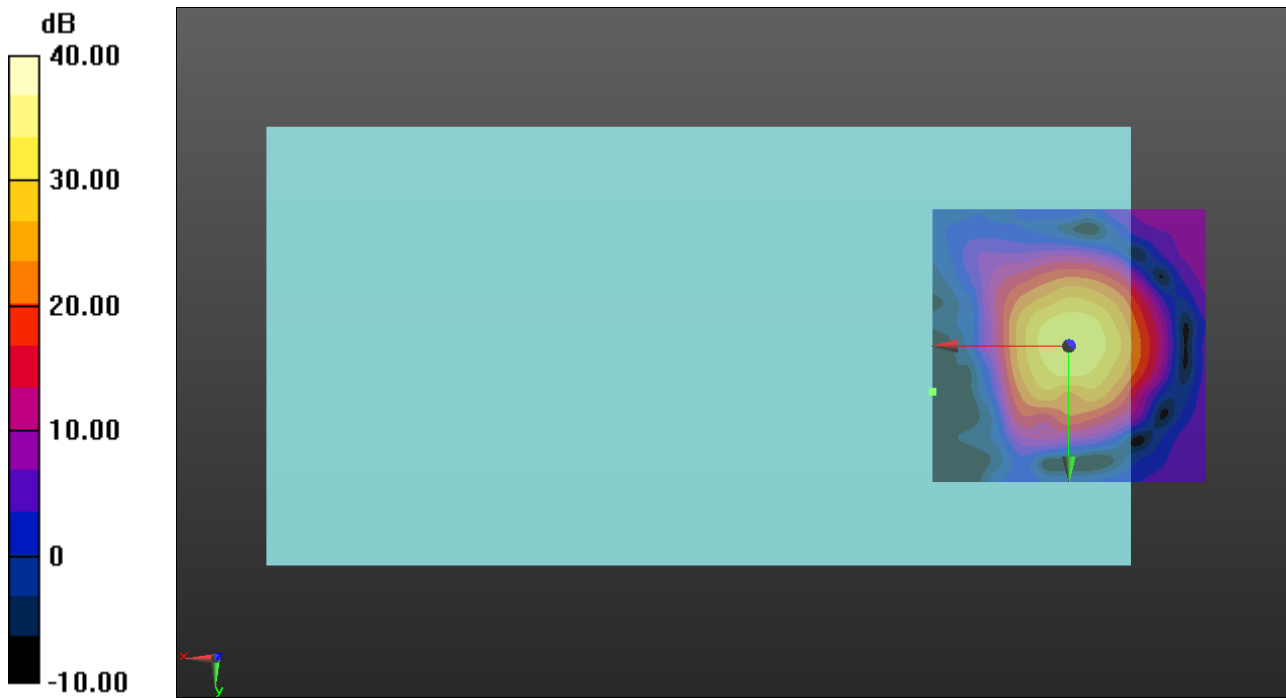
ABM1 comp = 0.75 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 0, 3.7 mm

ABM2 = -7.55 dBA/m

Location: 25, 8.3, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11b ch6 1Mbps NB AMR 12.2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.06 dB

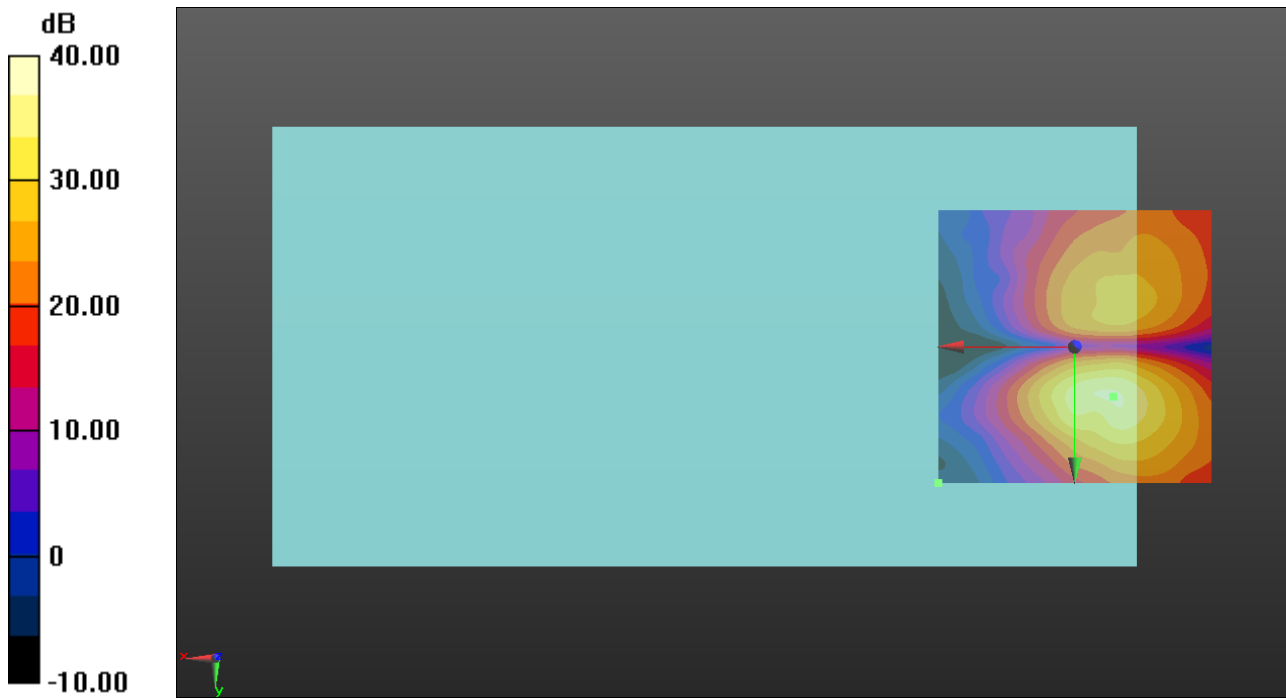
ABM1 comp = -11.05 dBA/m

BWC Factor = 0.16 dB

Location: -7.1, 9.2, 3.7 mm

ABM2 = -13.75 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5200 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch40 54Mbps NB AMR 12.2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm,

dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 30.09

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

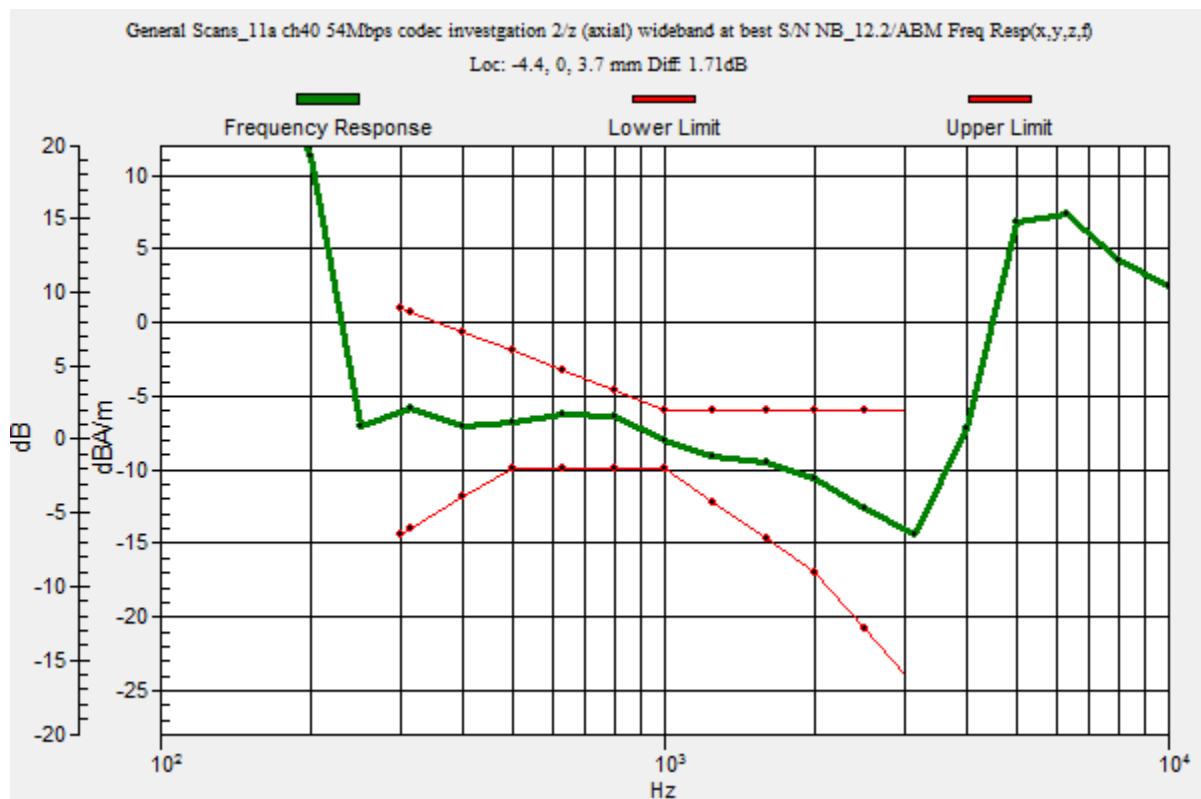
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.71 dB

BWC Factor = 10.80 dB

Location: -4.4, 0, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch40 54Mbps NB AMR 12.2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 33.30 dB

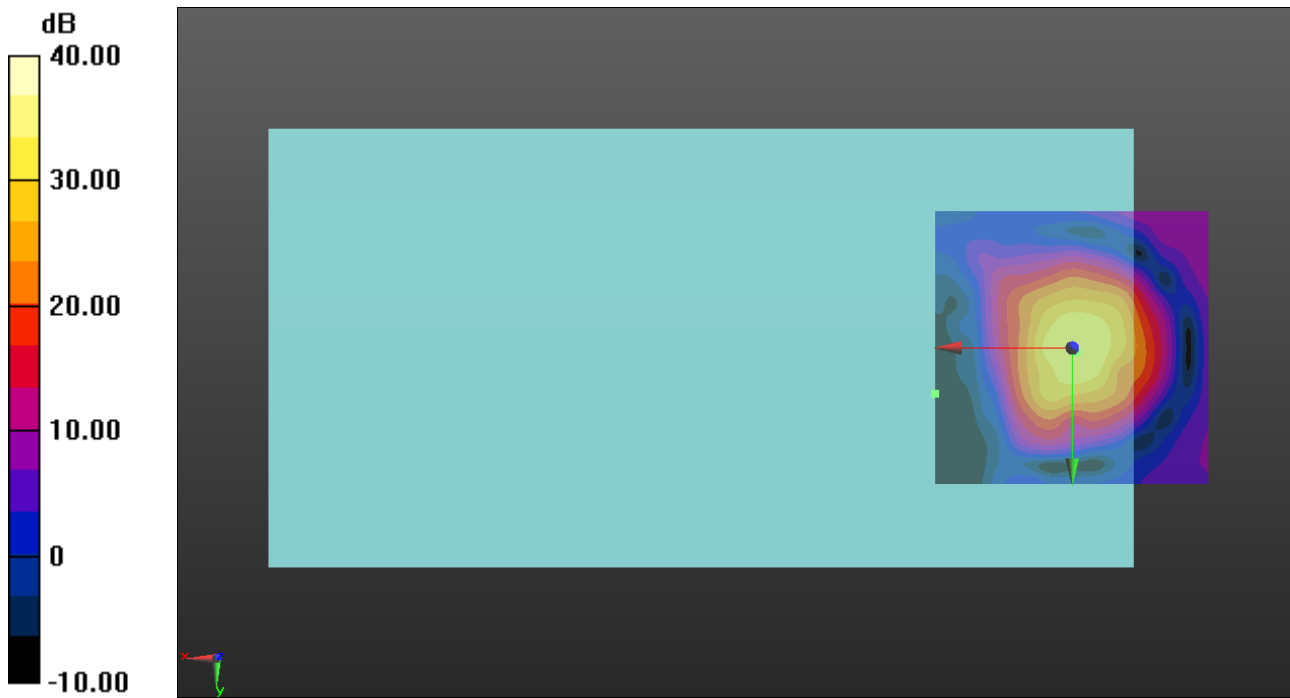
ABM1 comp = 0.66 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, 0.8, 3.7 mm

ABM2 = -5.25 dBA/m

Location: 25, 8.3, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch40 54Mbps NB AMR 12.2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.82 dB

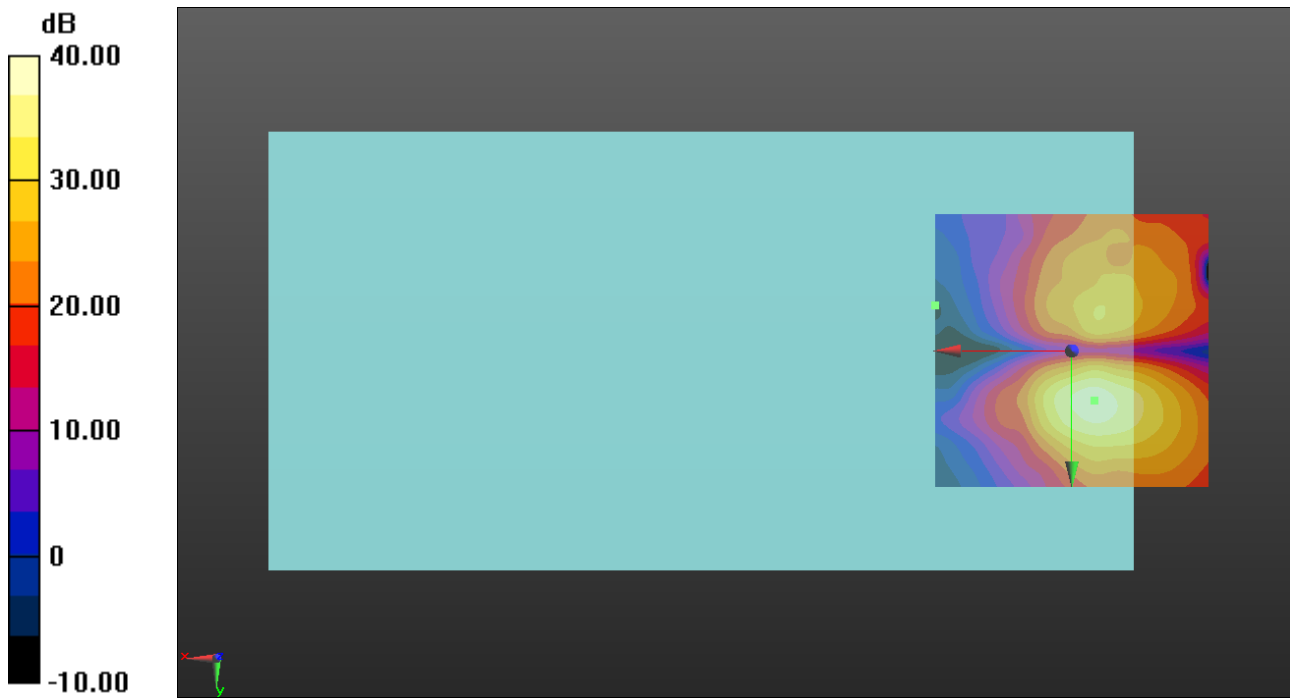
ABM1 comp = -9.09 dBA/m

BWC Factor = 0.16 dB

Location: -4.2, 9.2, 3.7 mm

ABM2 = -15.41 dBA/m

Location: 25, -8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5280 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch56 54Mbps NB AMR 12.2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 30.09

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

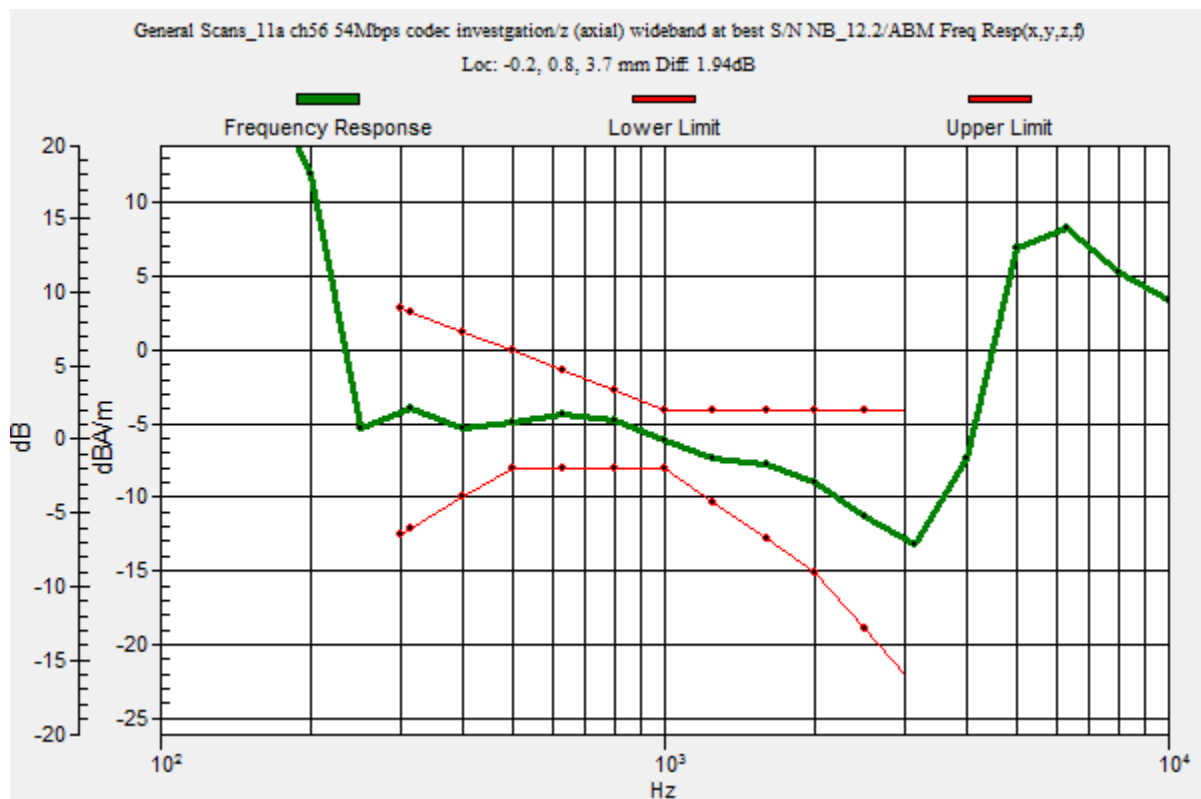
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.94 dB

BWC Factor = 10.80 dB

Location: -0.2, 0.8, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5280 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch56 54Mbps NB AMR 12.2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 34.14 dB

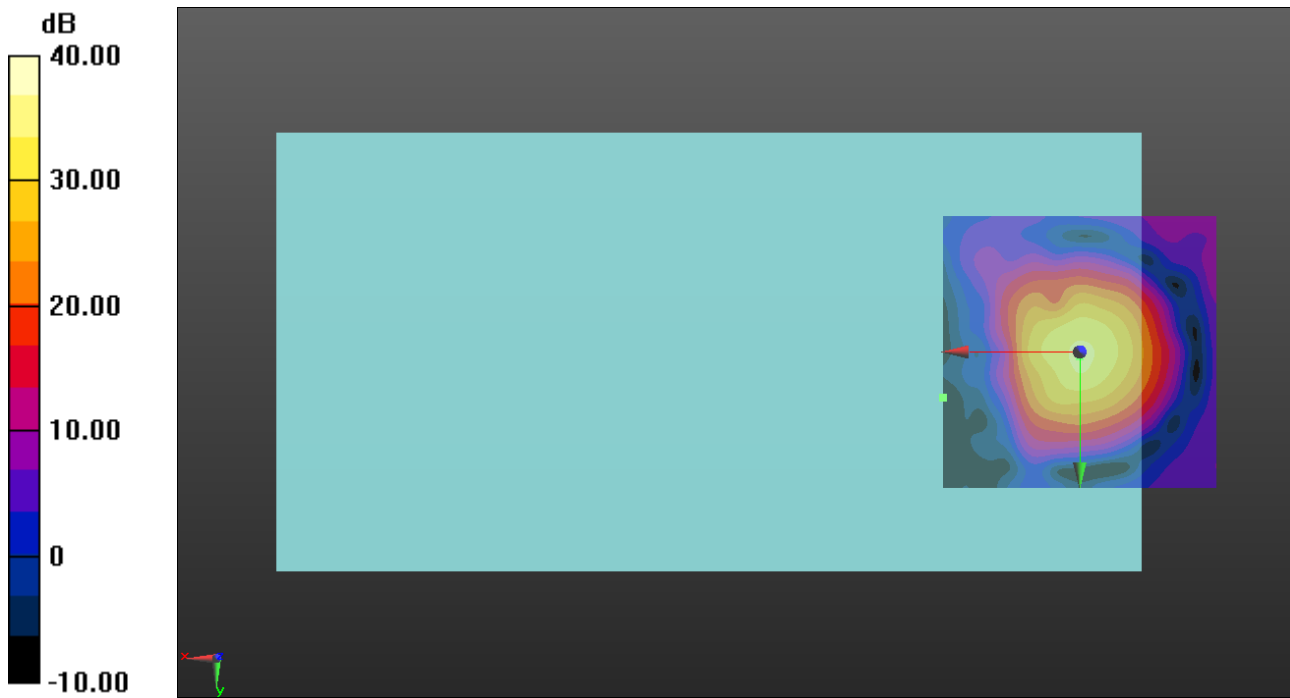
ABM1 comp = 0.57 dBA/m

BWC Factor = 0.16 dB

Location: 0, 0.8, 3.7 mm

ABM2 = -5.32 dBA/m

Location: 25, 8.3, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5280 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch56 54Mbps NB AMR 12.2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.87 dB

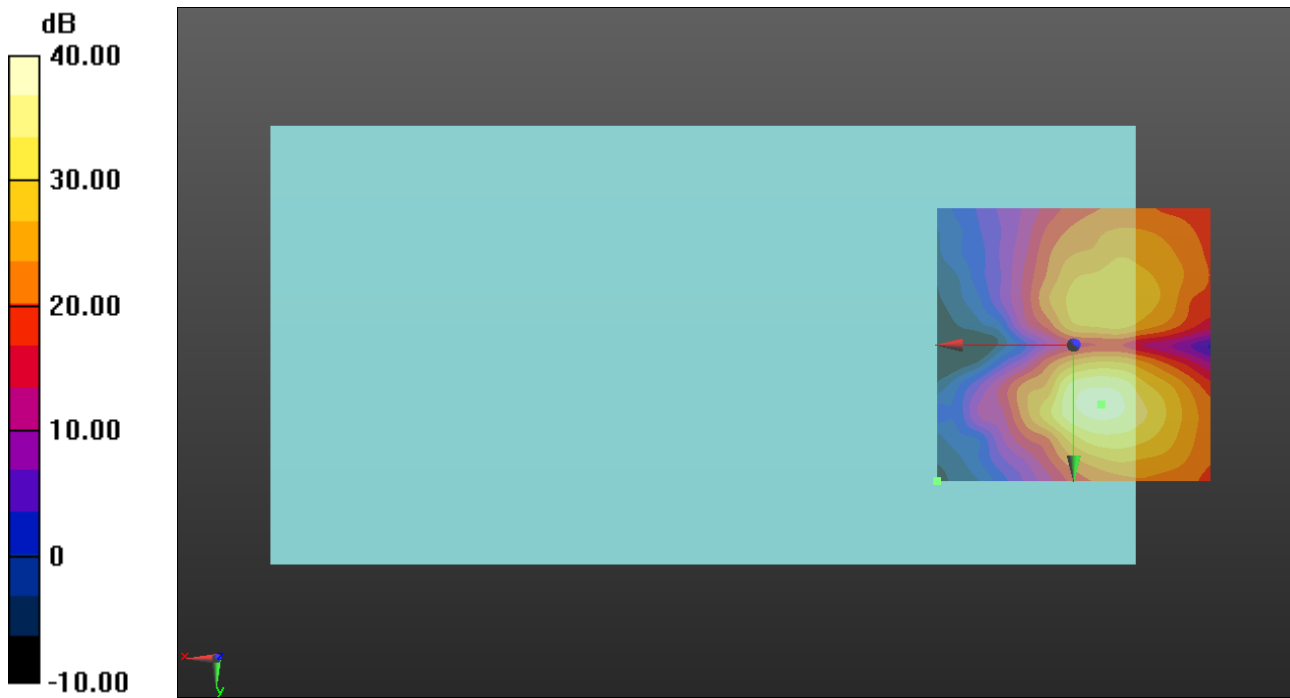
ABM1 comp = -10.05 dBA/m

BWC Factor = 0.16 dB

Location: -5, 10.8, 3.7 mm

ABM2 = -14.30 dBA/m

Location: 25, 25, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5580 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch116 54Mbps NB AMR 12.2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):

Measurement grid: dx=10mm,

dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 30.09

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

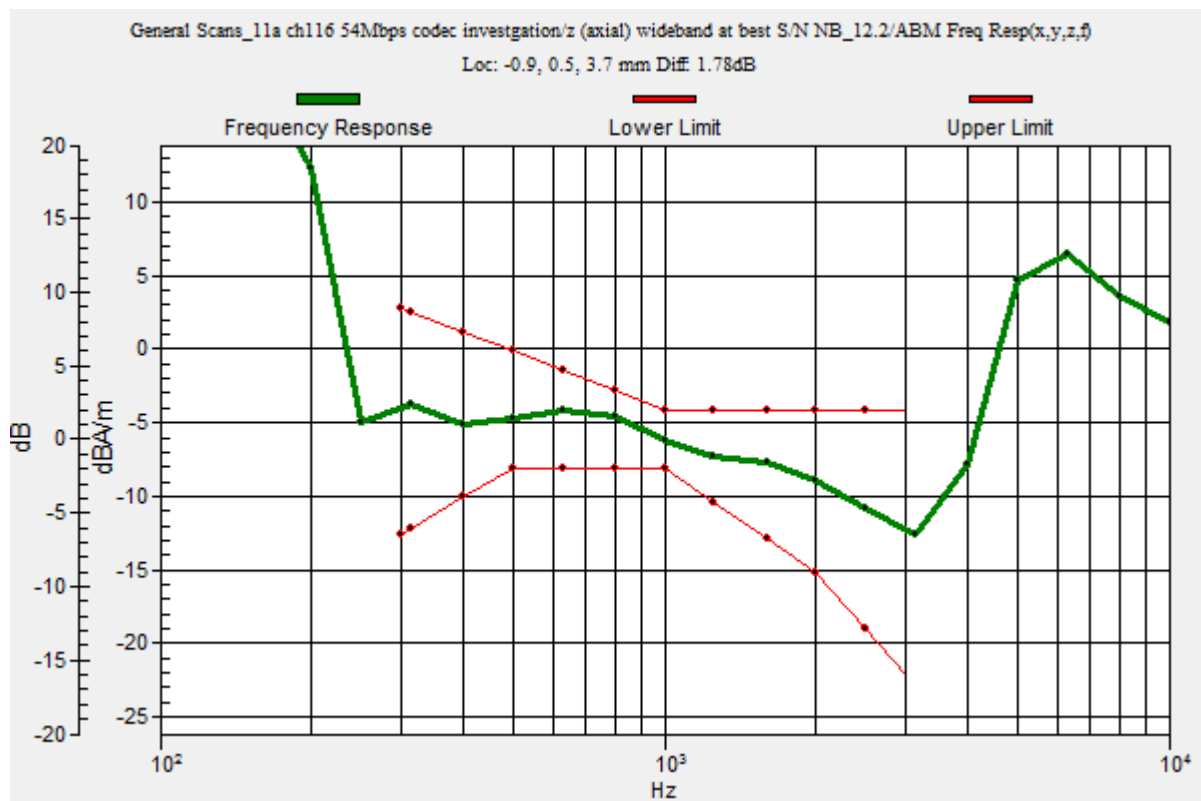
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.78 dB

BWC Factor = 10.80 dB

Location: -0.9, 0.5, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5580 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch116 54Mbps NB AMR 12.2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.99 dB

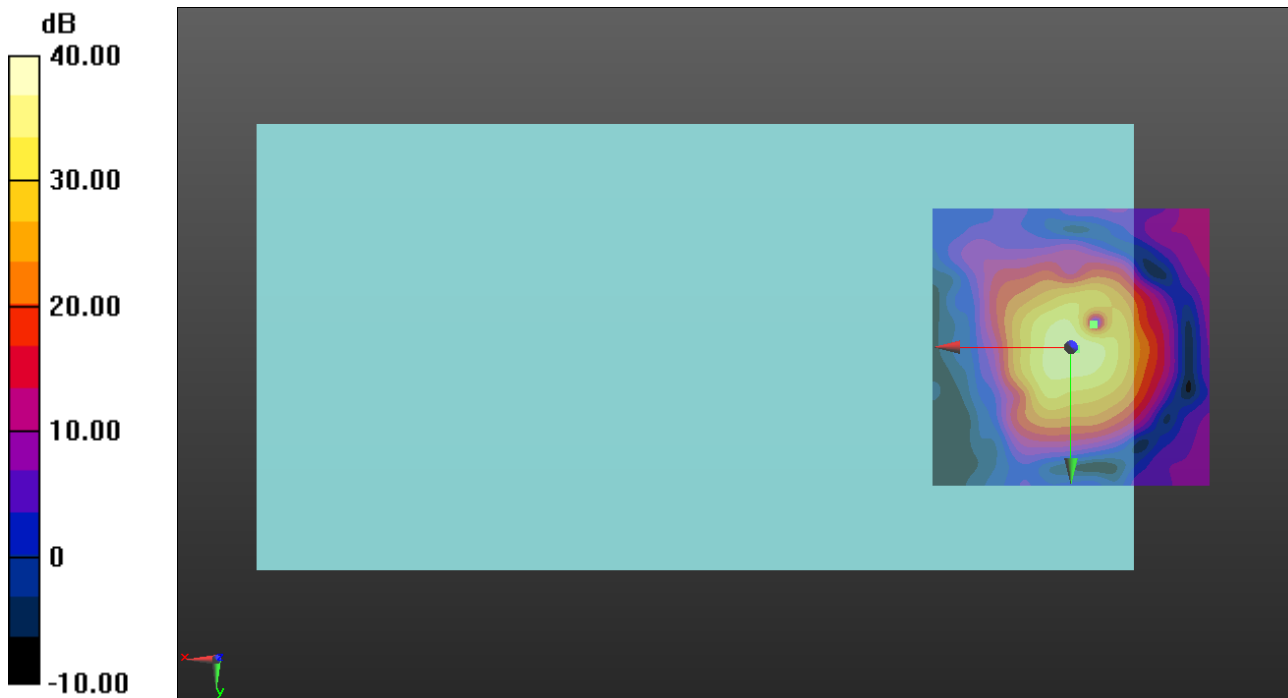
ABM1 comp = 0.80 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, 0.4, 3.7 mm

ABM2 = -5.44 dBA/m

Location: -4.2, -4.2, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5580 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch116 54Mbps NB AMR 12.2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.41 dB

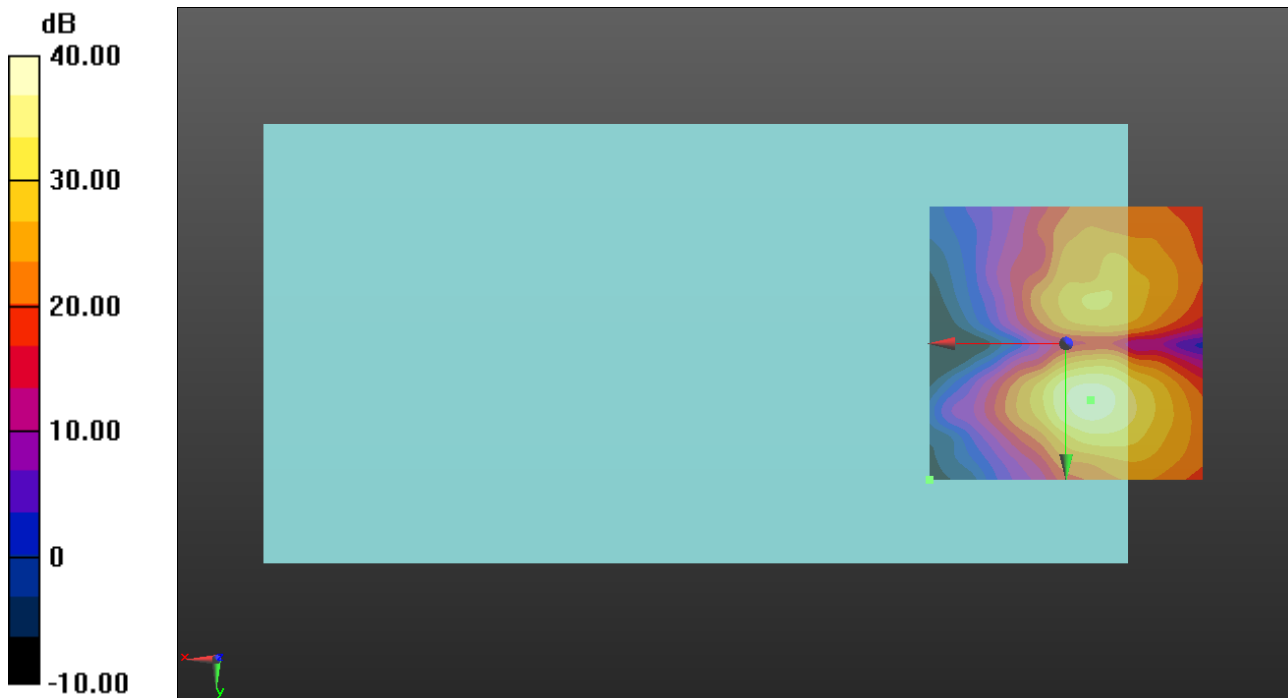
ABM1 comp = -9.63 dBA/m

BWC Factor = 0.16 dB

Location: -4.6, 10.4, 3.7 mm

ABM2 = -13.41 dBA/m

Location: 25, 25, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5785 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch157 54Mbps NB AMR 12.2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 30.09

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

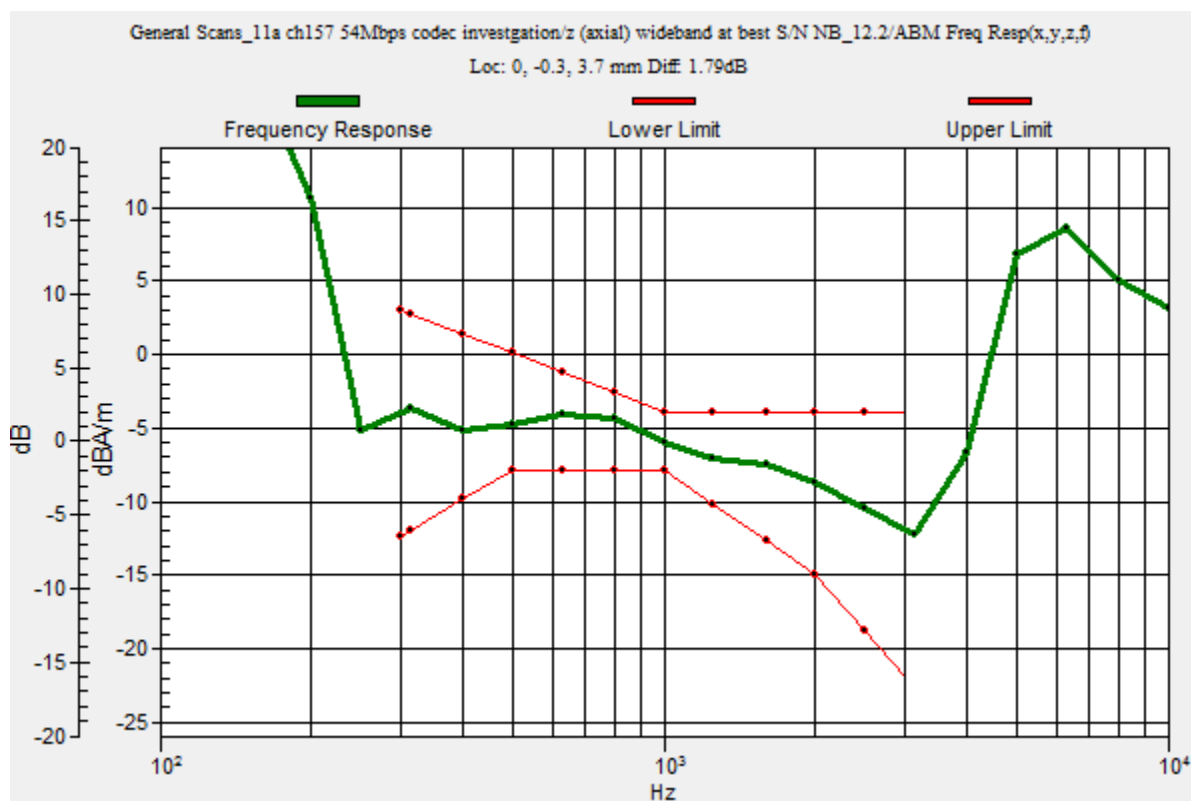
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.79 dB

BWC Factor = 10.80 dB

Location: 0, -0.3, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch157 54Mbps NB AMR 12.2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.78 dB

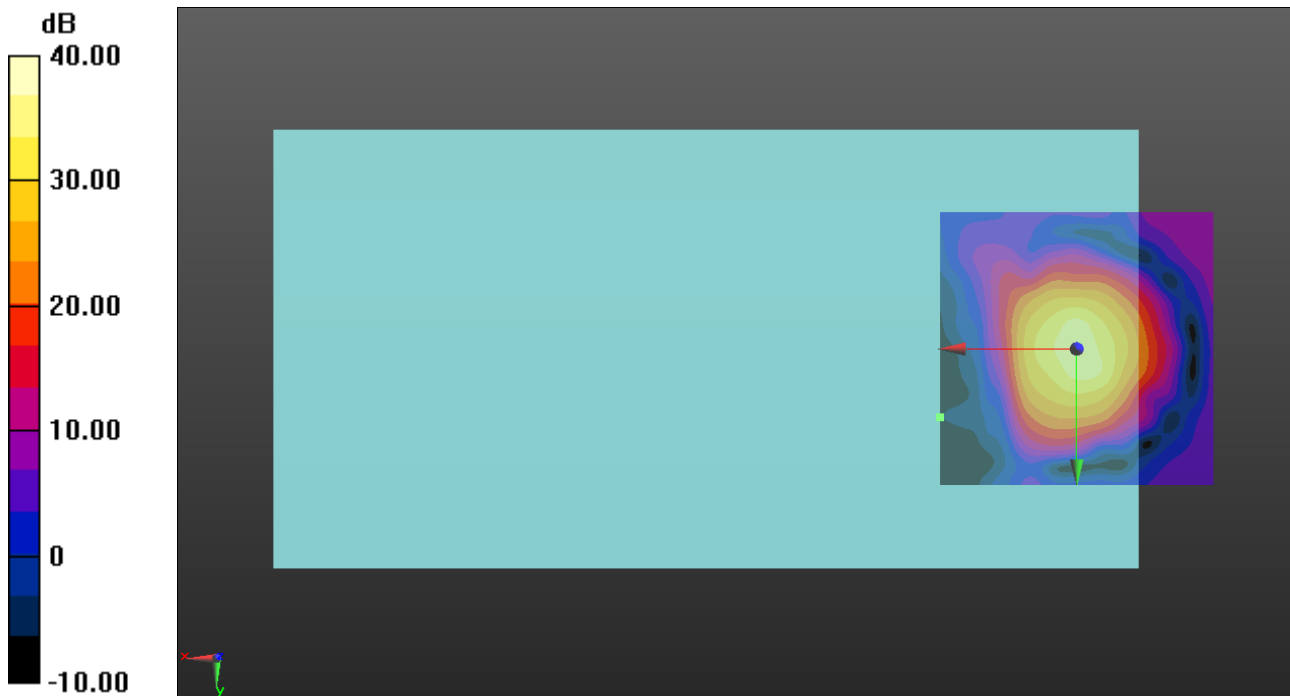
ABM1 comp = 0.74 dBA/m

BWC Factor = 0.16 dB

Location: 0, -0.4, 3.7 mm

ABM2 = -9.16 dBA/m

Location: 25, 12.5, 3.7 mm



VoWiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch157 54Mbps NB AMR 12.2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 15.35

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.40 dB

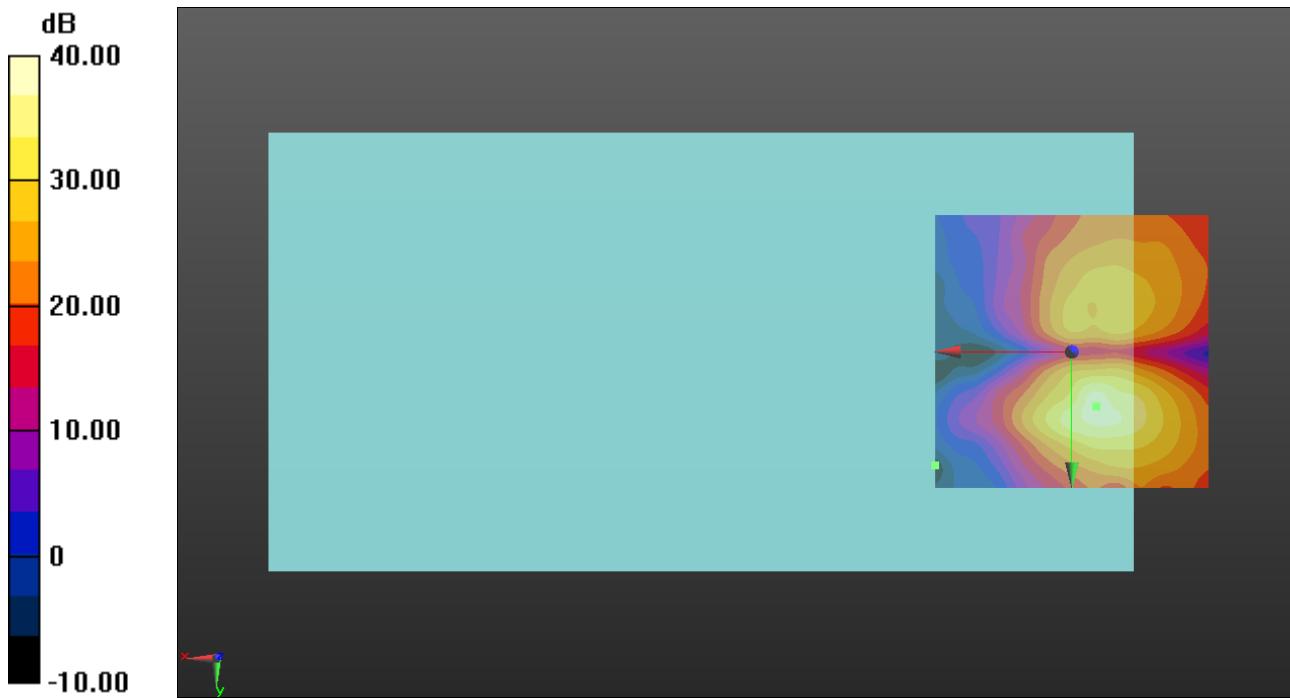
ABM1 comp = -9.47 dBA/m

BWC Factor = 0.16 dB

Location: -4.6, 10, 3.7 mm

ABM2 = -13.25 dBA/m

Location: 25, 20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_GSM

Communication System: UID 0, Generic GSM (0); Frequency: 824.2 MHz;Duty Cycle: 1:8.30042

T-Coil scan (scan for ANSI C63.19 2011 compliance)/EGPRS_2Tx ch128 codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

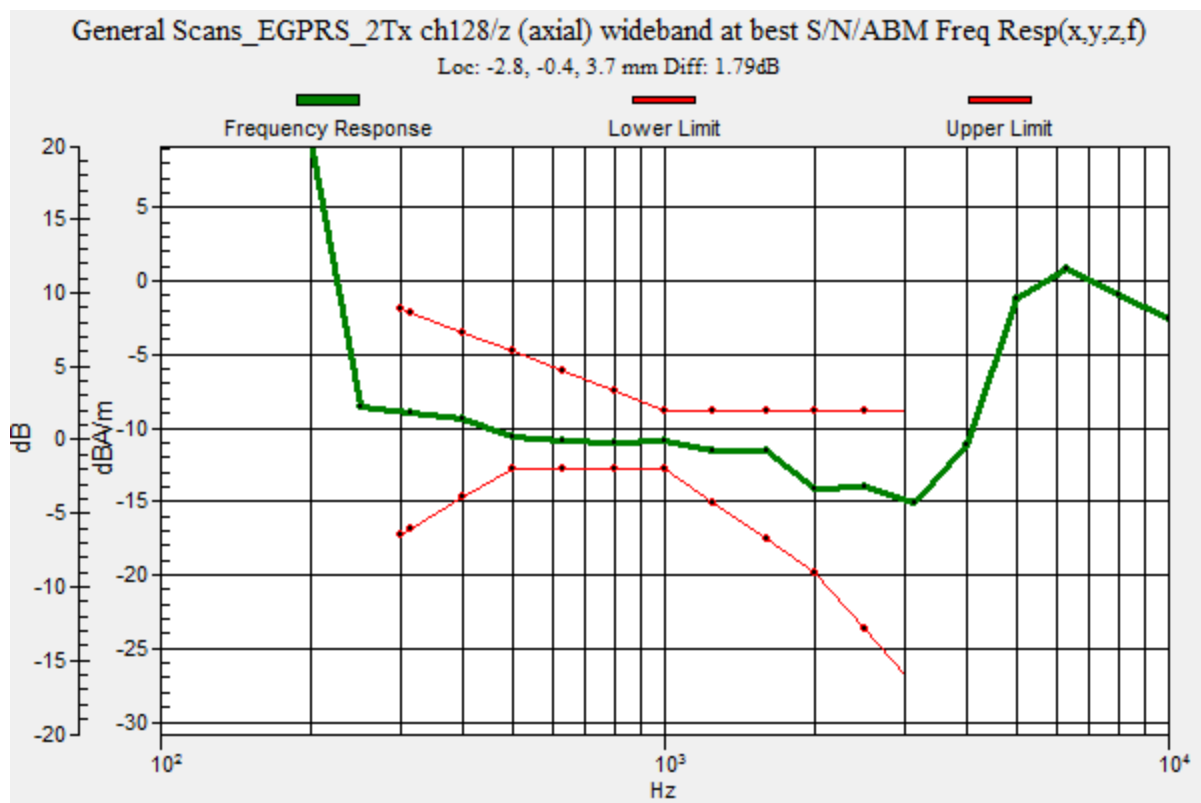
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.79 dB

BWC Factor = 10.80 dB

Location: -2.8, -0.4, 3.7 mm



OTT_GSM

Communication System: UID 0, Generic GSM (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/EGPRS_2Tx ch128 codec6/z (axial)

4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.61 dB

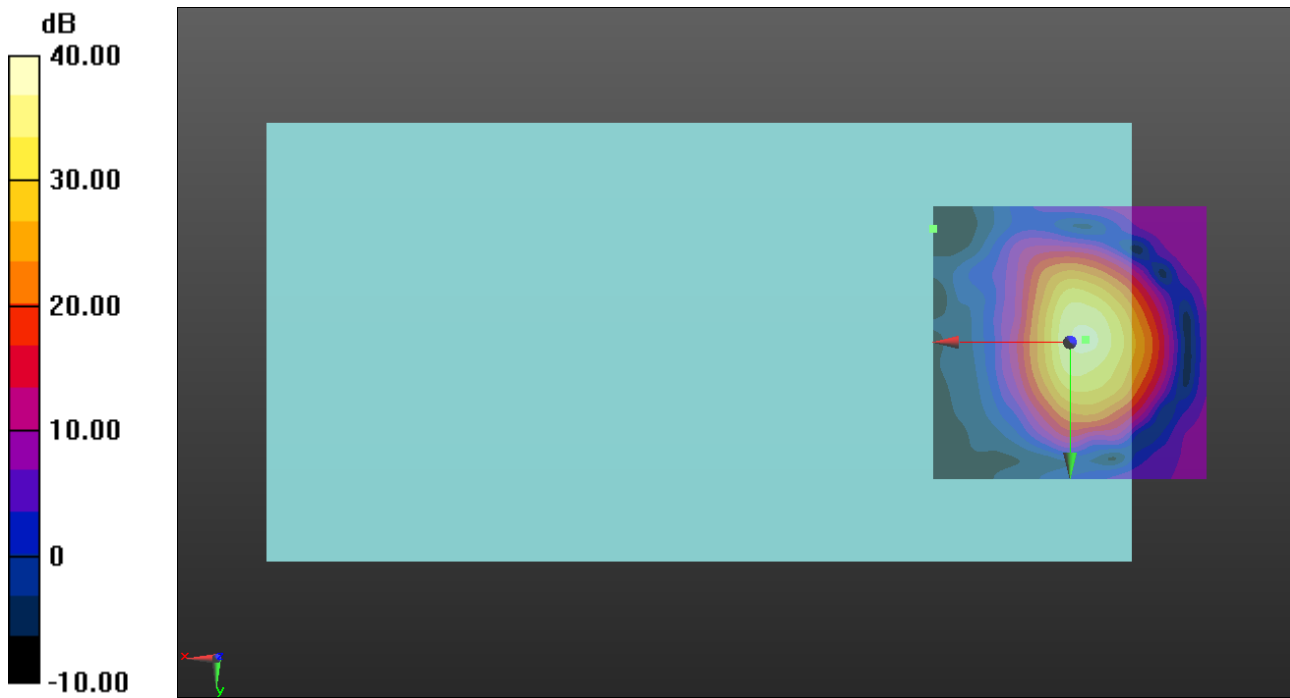
ABM1 comp = -5.44 dBA/m

BWC Factor = 0.16 dB

Location: -2.9, -0.4, 3.7 mm

ABM2 = -13.23 dBA/m

Location: 25, -20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_GSM

Communication System: UID 0, Generic GSM (0); Frequency: 824.2 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/EGPRS_2Tx ch128 codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 34.50 dB

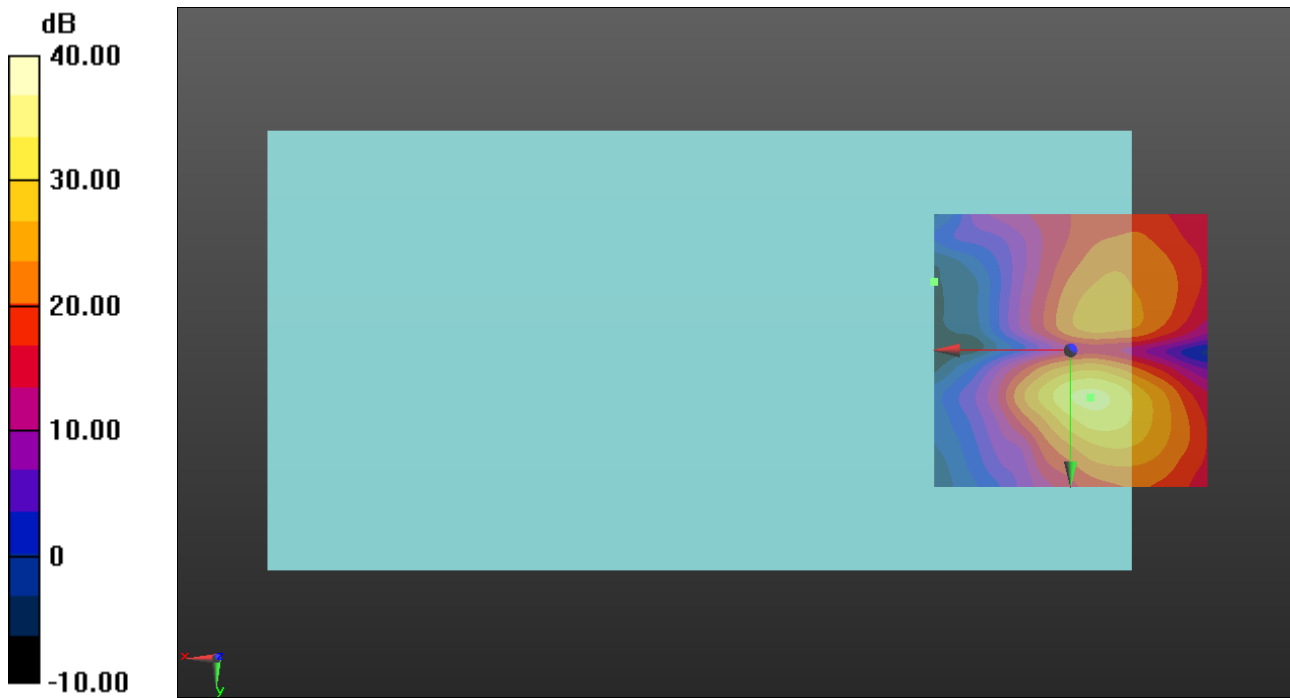
ABM1 comp = -14.11 dBA/m

BWC Factor = 0.16 dB

Location: -3.7, 8.7, 3.7 mm

ABM2 = -14.66 dBA/m

Location: 25, -12.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz;Duty Cycle: 1:8.30042

T-Coil scan (scan for ANSI C63.19 2011 compliance)/EGPRS_2Tx ch661 codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

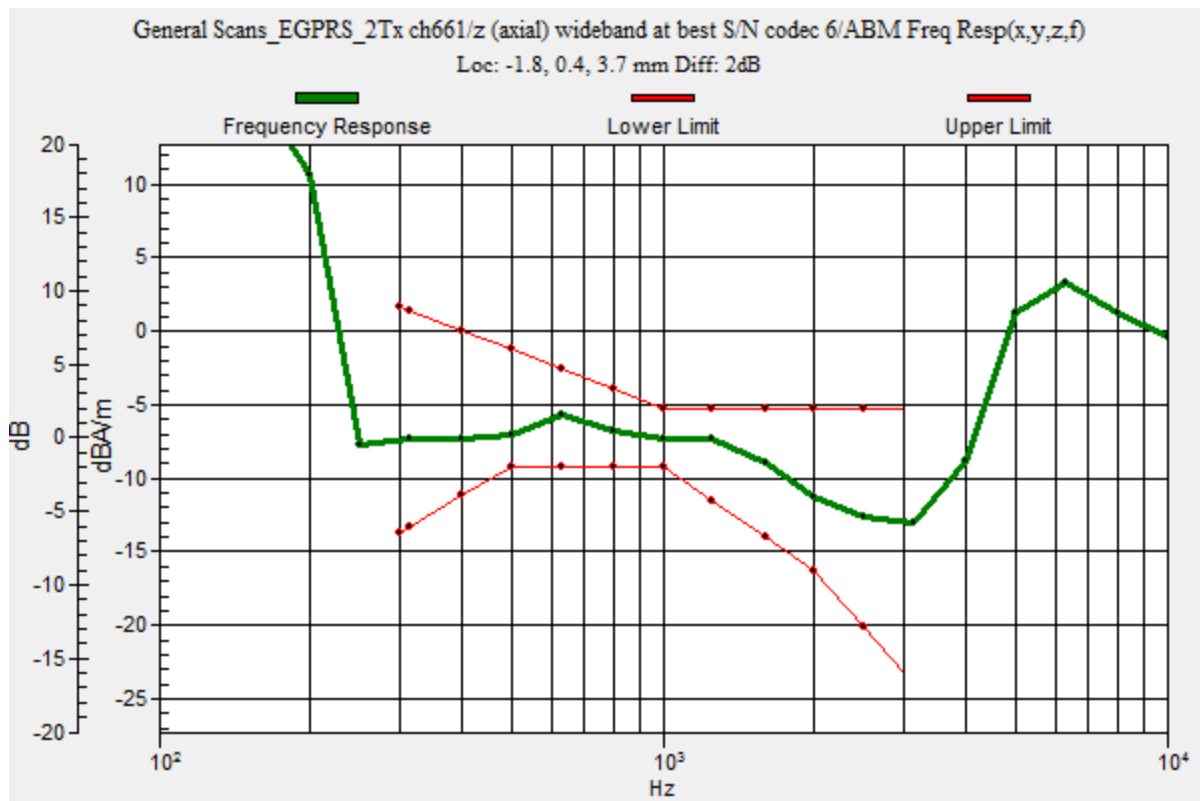
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -1.8, 0.4, 3.7 mm



OTT_GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/EGPRS_2Tx ch661 codec6/z (axial)

4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.80 dB

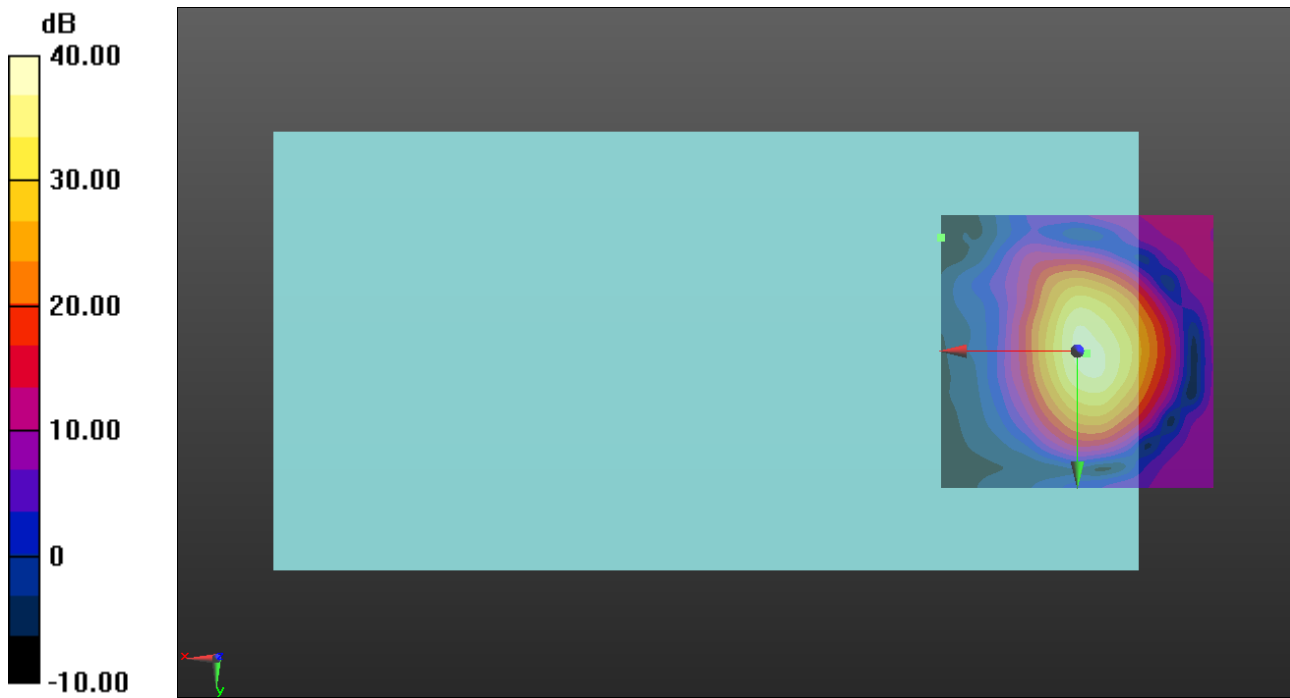
ABM1 comp = -4.92 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 0.4, 3.7 mm

ABM2 = -13.76 dBA/m

Location: 25, -20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_GSM

Communication System: UID 0, Generic GSM (0); Frequency: 1880 MHz; Duty Cycle: 1:8.30042

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/EGPRS_2Tx ch661 codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.27 dB

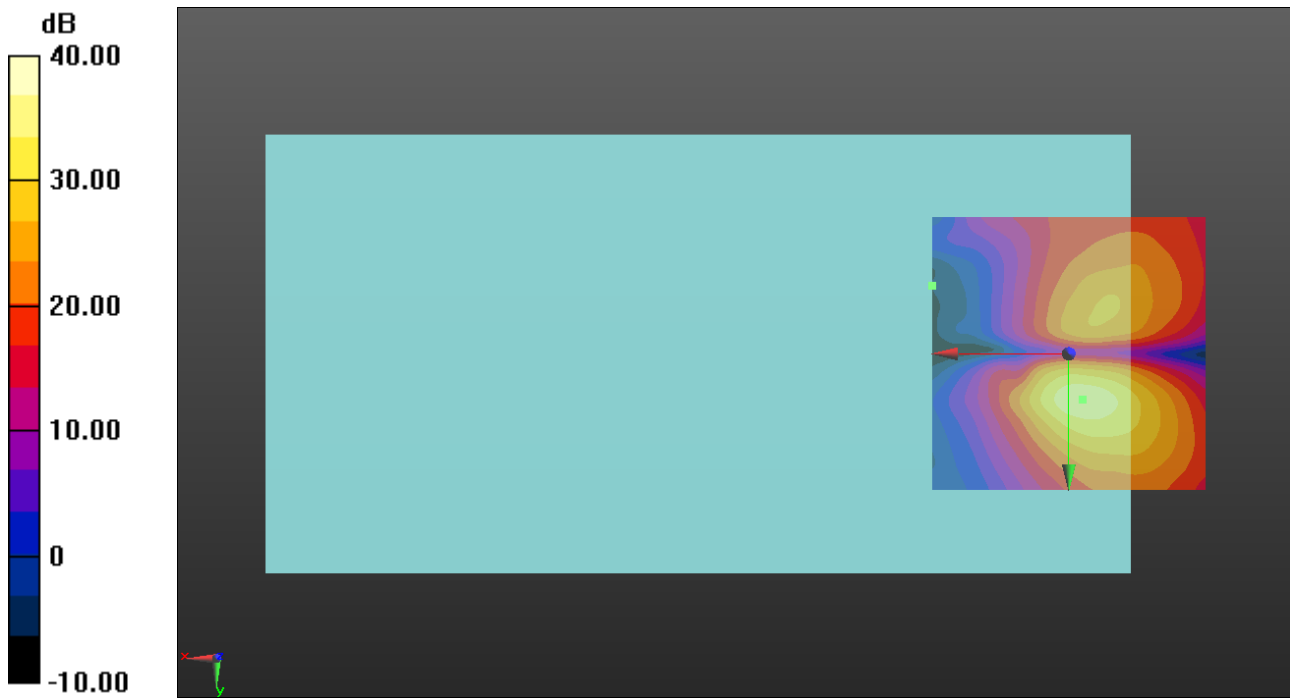
ABM1 comp = -11.47 dBA/m

BWC Factor = 0.16 dB

Location: -2.5, 8.3, 3.7 mm

ABM2 = -14.25 dBA/m

Location: 25, -12.5, 3.7 mm



OTT_WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1880 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/HSUPA_subtest1 ch9400 codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm,

dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

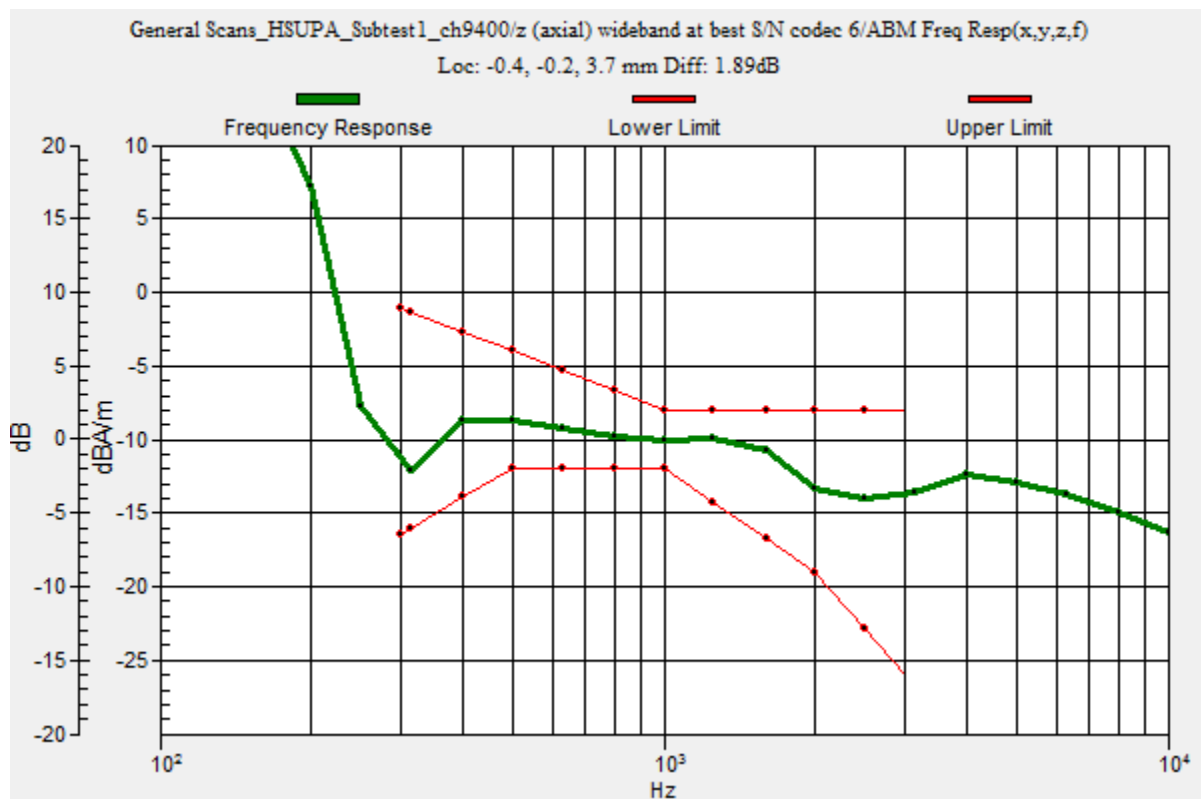
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.89 dB

BWC Factor = 10.80 dB

Location: -0.4, -0.2, 3.7 mm



OTT_WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/HSUPA_subtest1 ch9400 codec6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 44.39 dB

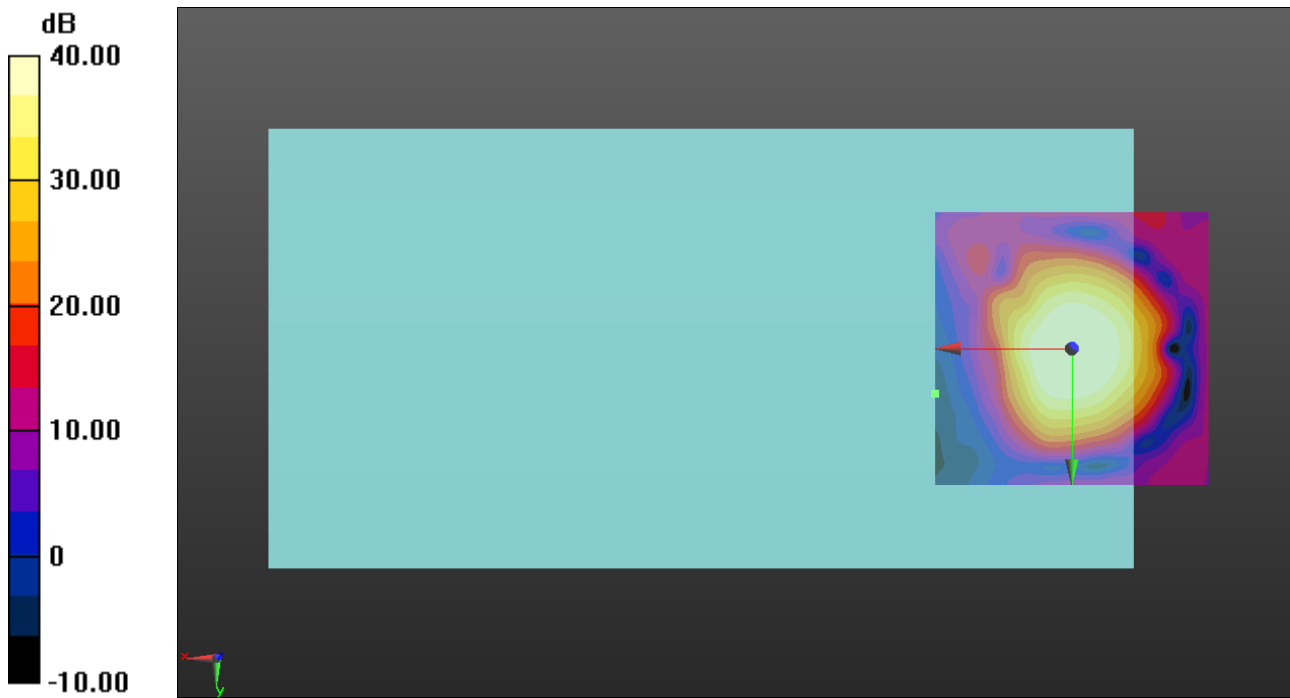
ABM1 comp = -1.34 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, -0.4, 3.7 mm

ABM2 = -20.67 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1732.6 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/HSUPA_subtest1 ch1413 codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm,

dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

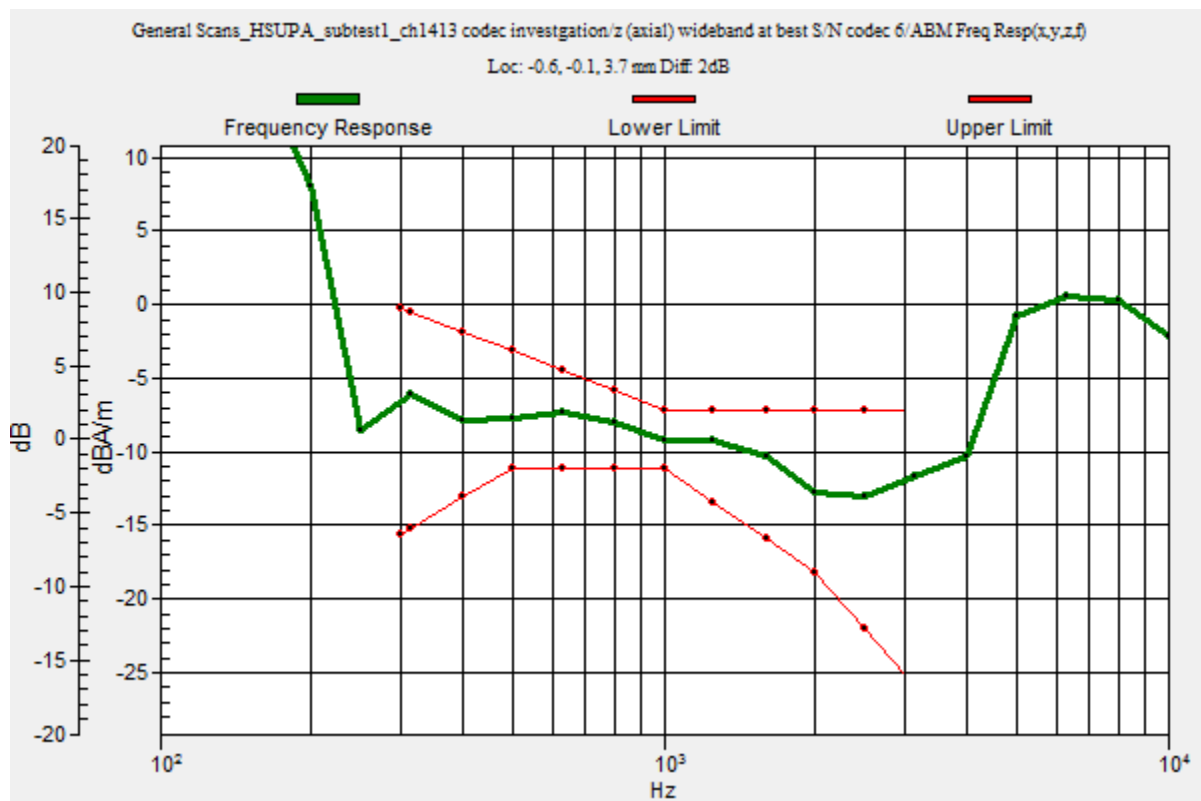
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -0.6, -0.1, 3.7 mm



OTT_WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/HSUPA_subtest1 ch1413 codec6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 44.59 dB

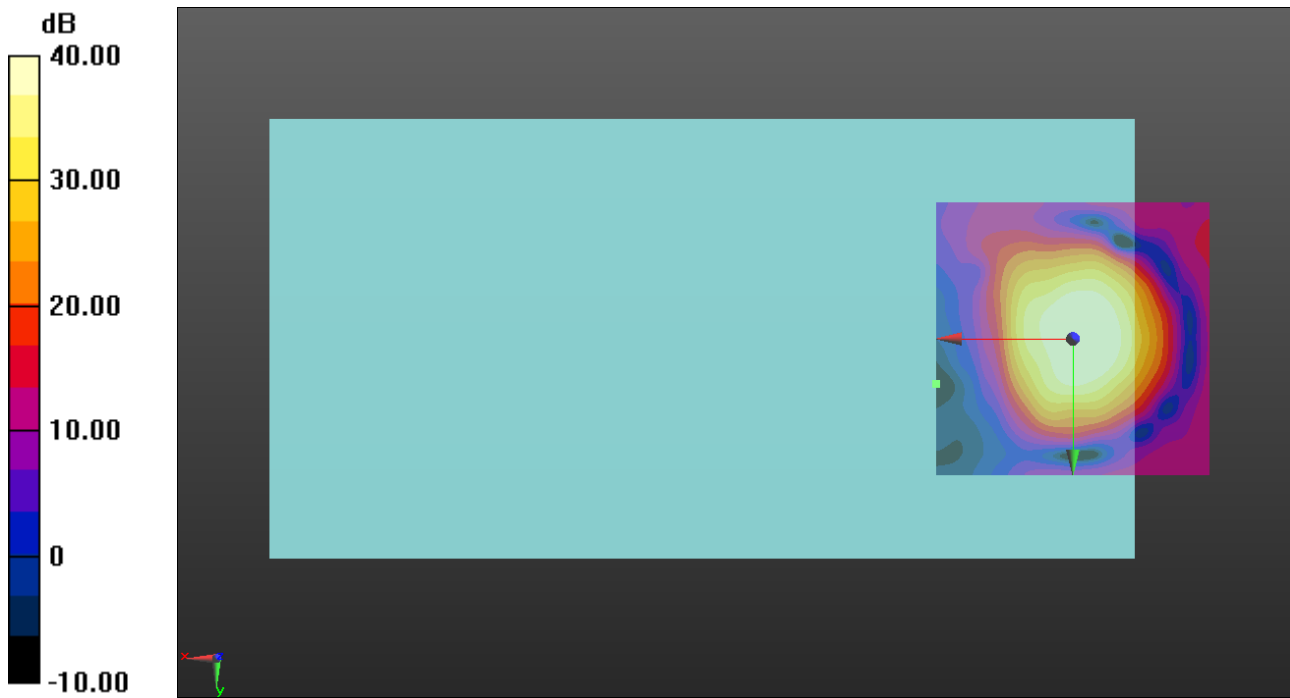
ABM1 comp = -1.18 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 0, 3.7 mm

ABM2 = -15.76 dBA/m

Location: 25, 8.3, 3.7 mm



OTT_WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/HSUPA_subtest1 ch1413 codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.24 dB

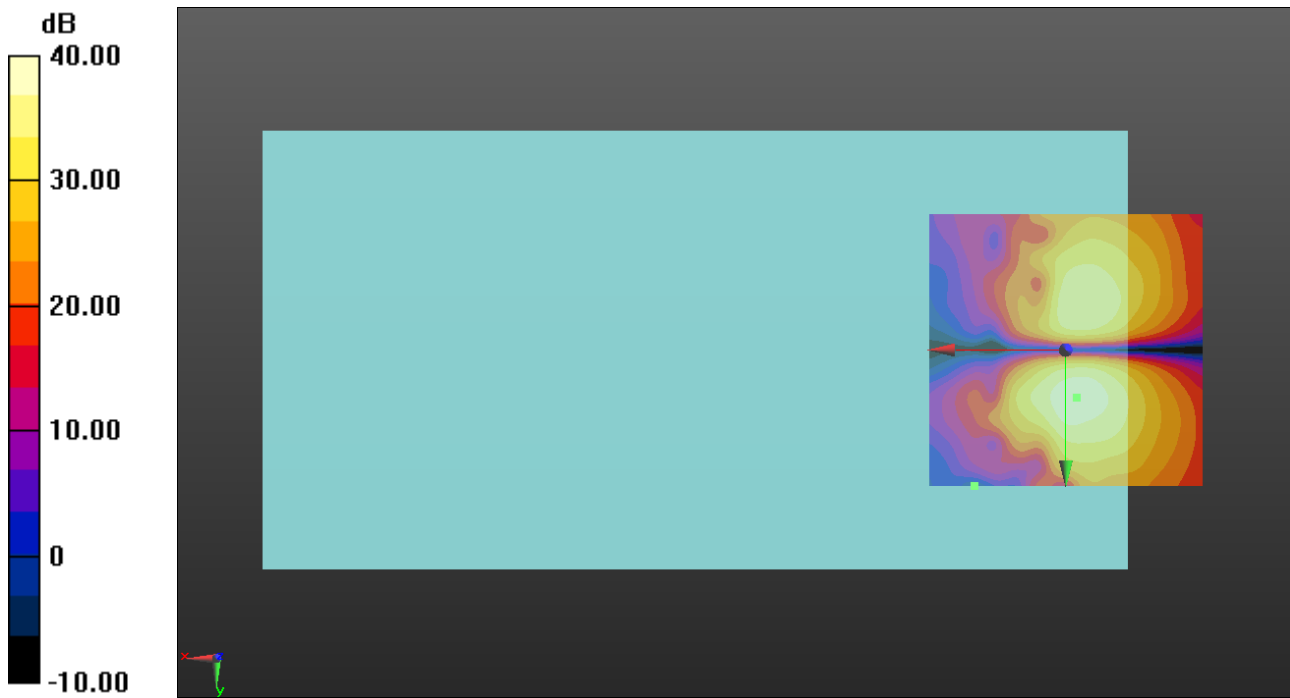
ABM1 comp = -10.73 dBA/m

BWC Factor = 0.16 dB

Location: -2.1, 8.7, 3.7 mm

ABM2 = -20.18 dBA/m

Location: 16.7, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/HSUPA_subtest1 ch4183 codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm,

dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

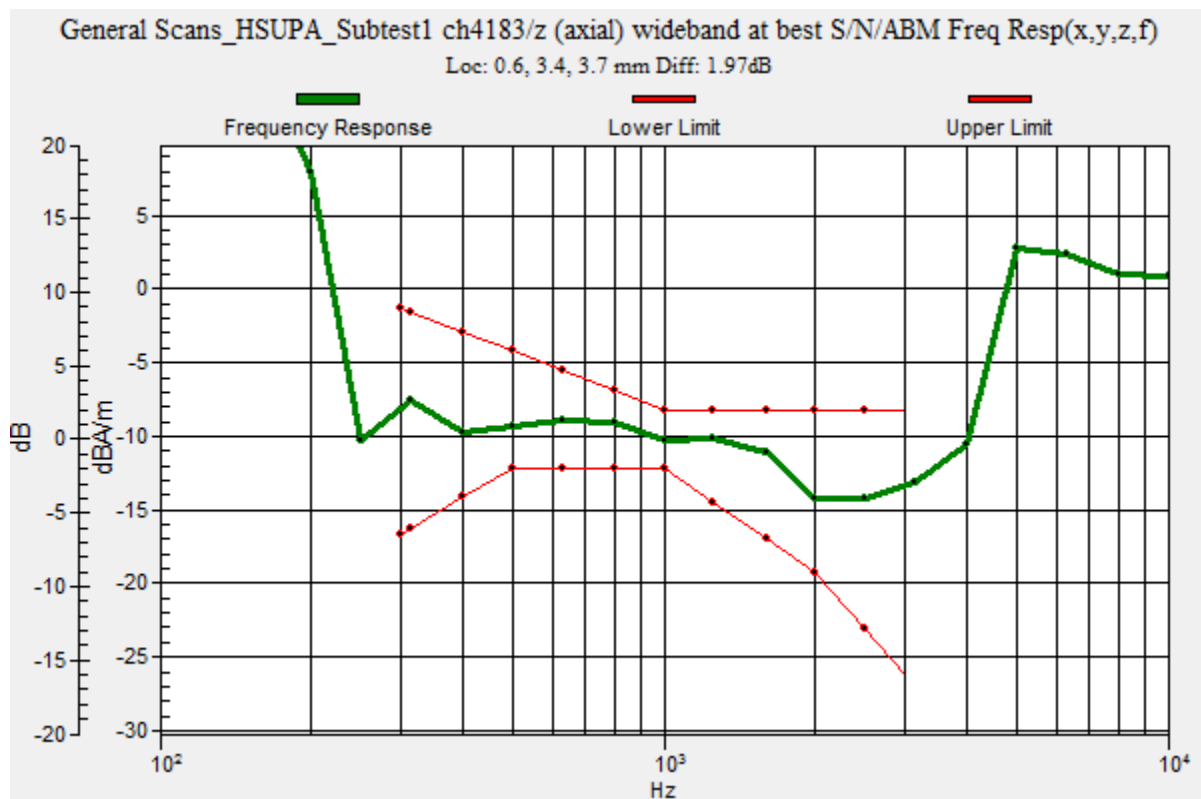
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.97 dB

BWC Factor = 10.80 dB

Location: 0.6, 3.4, 3.7 mm



OTT_WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/HSUPA_subtest1 ch4183 codec6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm,

dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.37 dB

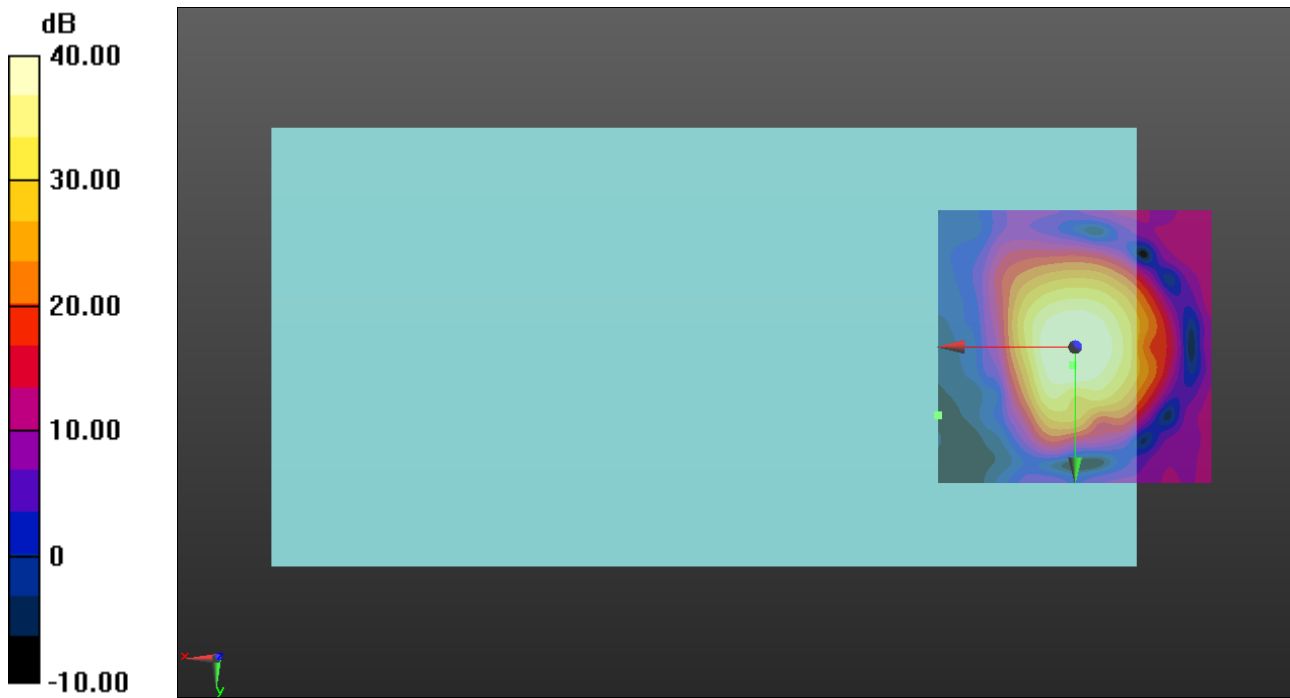
ABM1 comp = -2.55 dBA/m

BWC Factor = 0.16 dB

Location: 0.4, 3.3, 3.7 mm

ABM2 = -15.65 dBA/m

Location: 25, 12.5, 3.7 mm



OTT_WCDMA

Communication System: UID 0, UMTS-FDD (WCDMA) (0); Frequency: 836.6 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/HSUPA_subtest1 ch4183 codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 3000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.77 dB

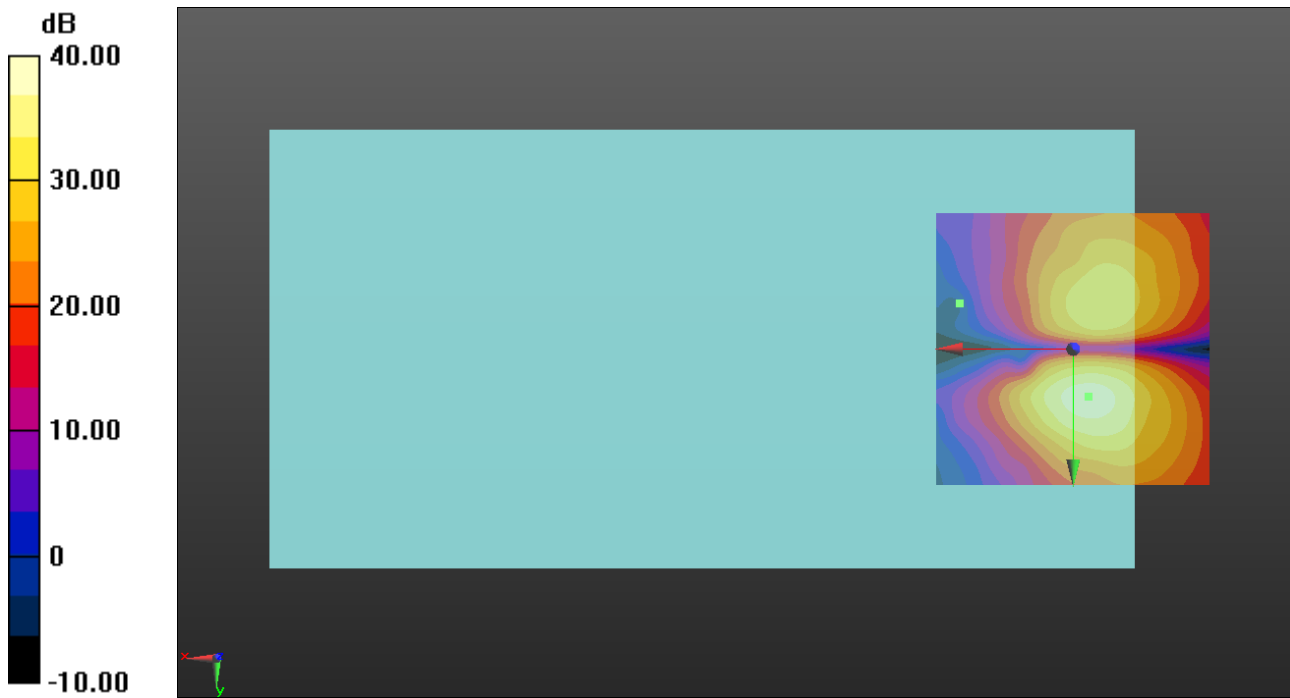
ABM1 comp = -10.44 dBA/m

BWC Factor = 0.16 dB

Location: -2.9, 8.7, 3.7 mm

ABM2 = -21.17 dBA/m

Location: 20.8, -8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 2 ch18900 16QAM RB1/0 codec64/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid:

dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

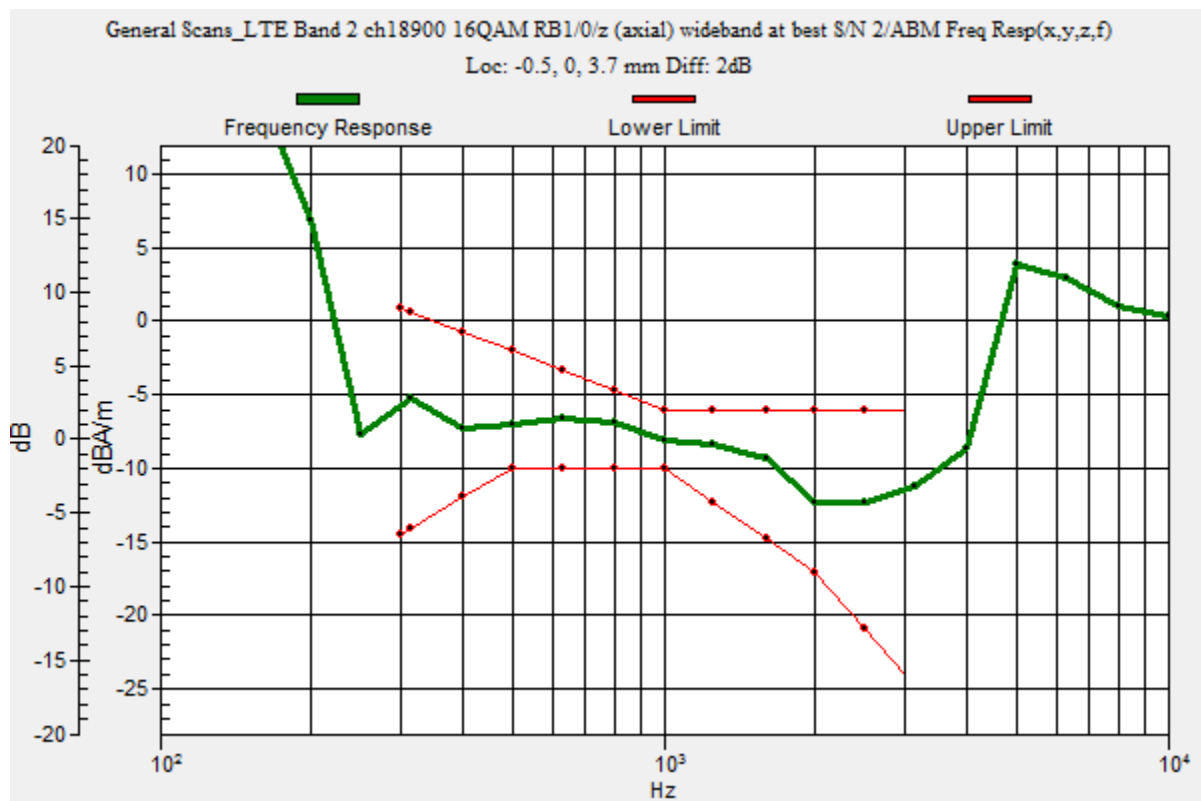
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -0.5, 0, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 2 ch18900 16QAM RB1/0 codec64/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.92 dB

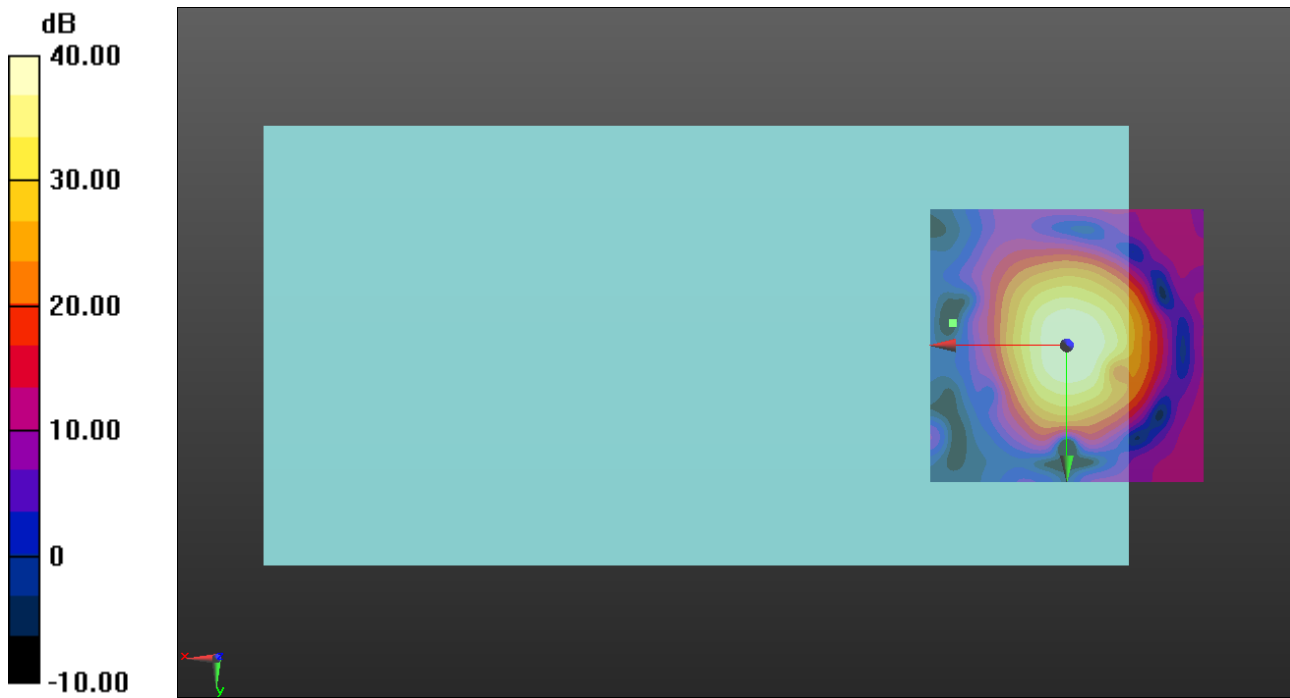
ABM1 comp = -2.97 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 0, 3.7 mm

ABM2 = -12.94 dBA/m

Location: 20.8, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 2 ch18900 16QAM RB1/0 codec64/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.11 dB

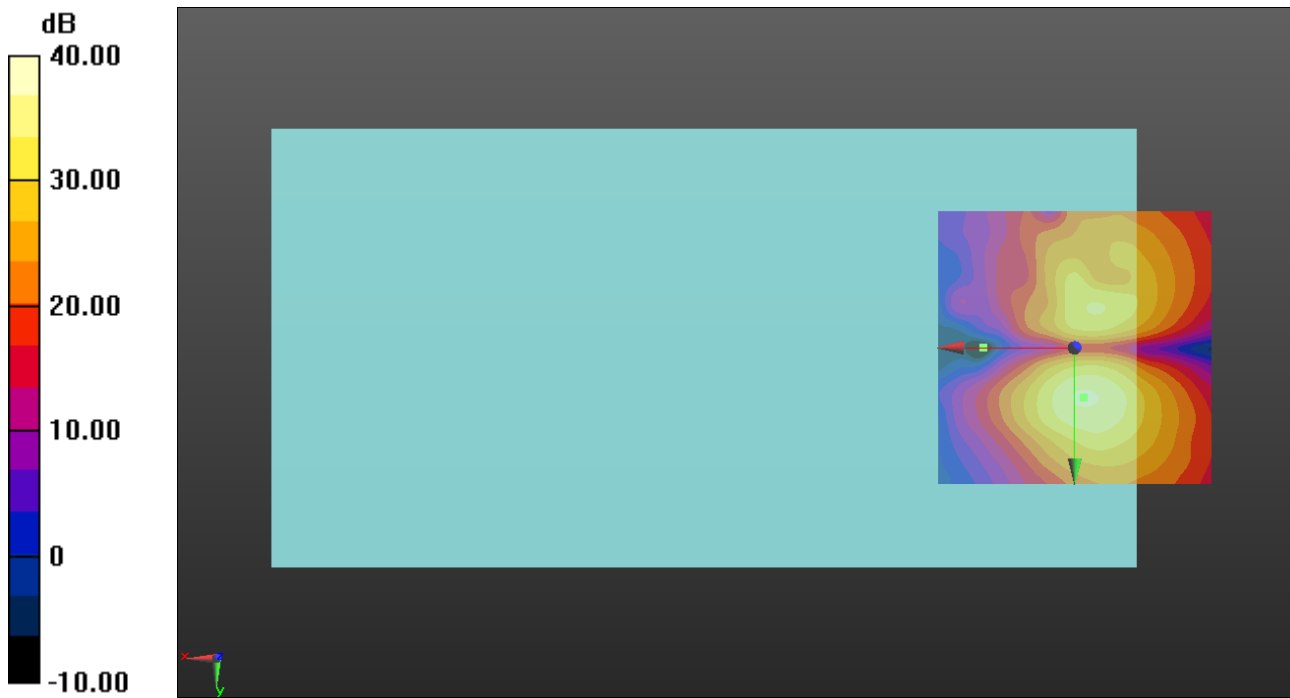
ABM1 comp = -12.21 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 9.2, 3.7 mm

ABM2 = -23.87 dBA/m

Location: 16.7, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 16QAM RB1/0 codec64/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid:

dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

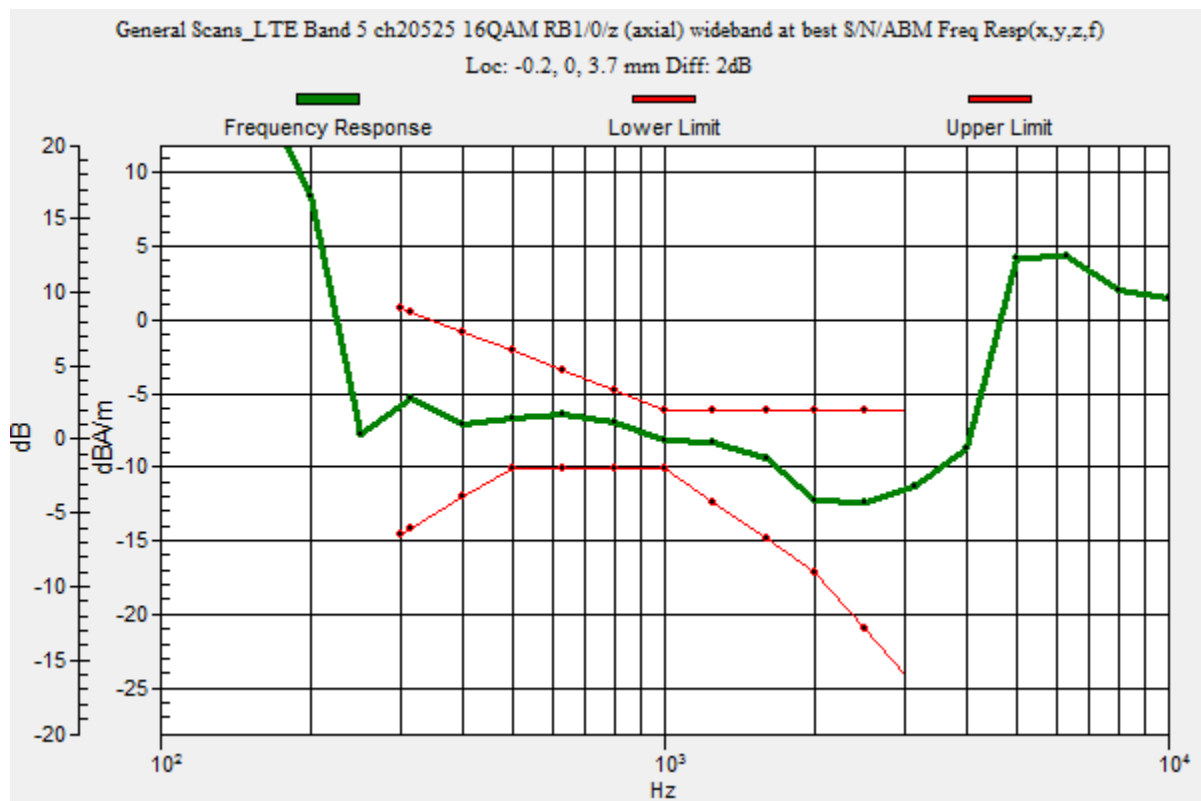
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -0.2, 0, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 16QAM RB1/0 codec64/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.52 dB

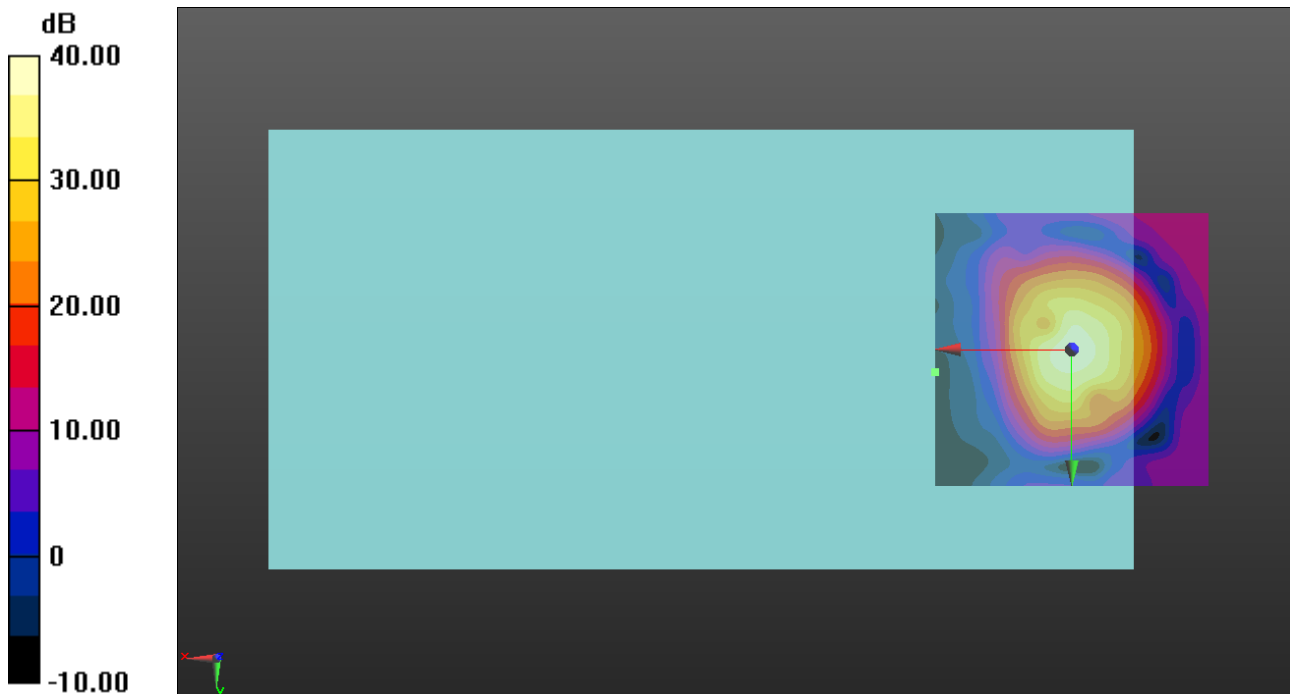
ABM1 comp = -2.79 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 0, 3.7 mm

ABM2 = -15.27 dBA/m

Location: 25, 4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 836.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 5 ch20525 16QAM RB1/0 codec64/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.73 dB

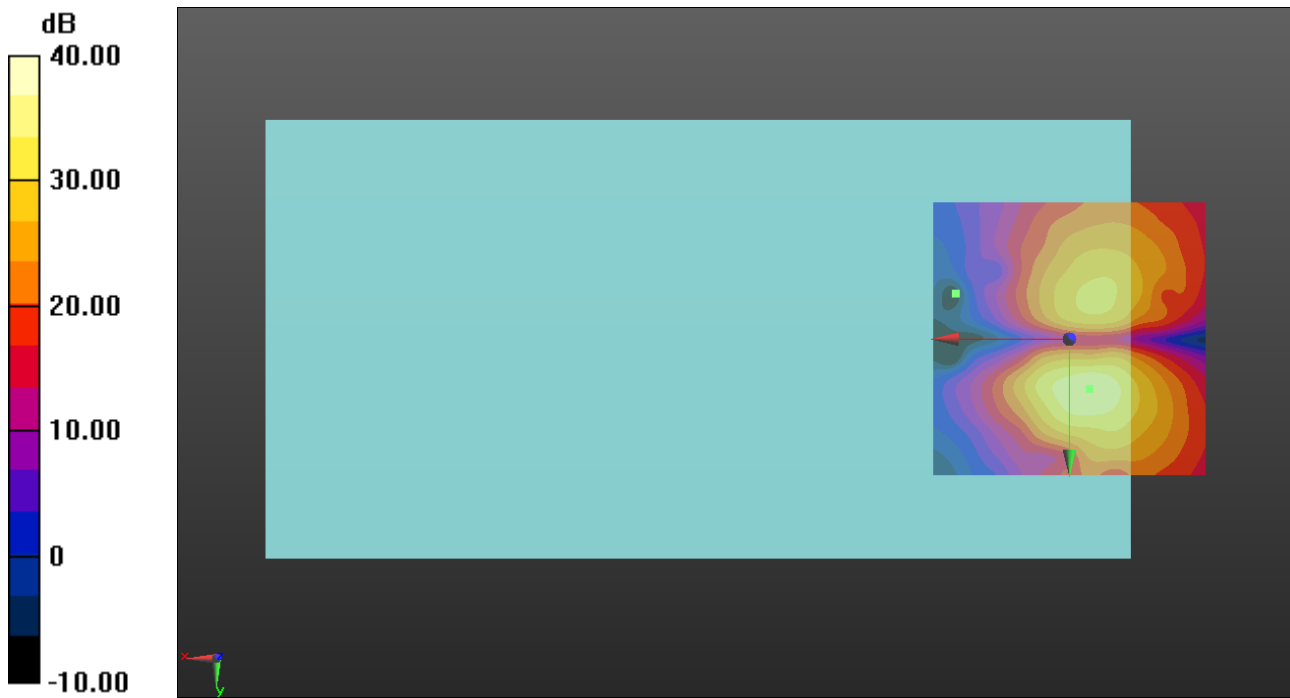
ABM1 comp = -12.71 dBA/m

BWC Factor = 0.16 dB

Location: -3.7, 9.2, 3.7 mm

ABM2 = -16.81 dBA/m

Location: 20.8, -8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2535 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 ch21100 16QAM RB1/0 codec64/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid:

dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

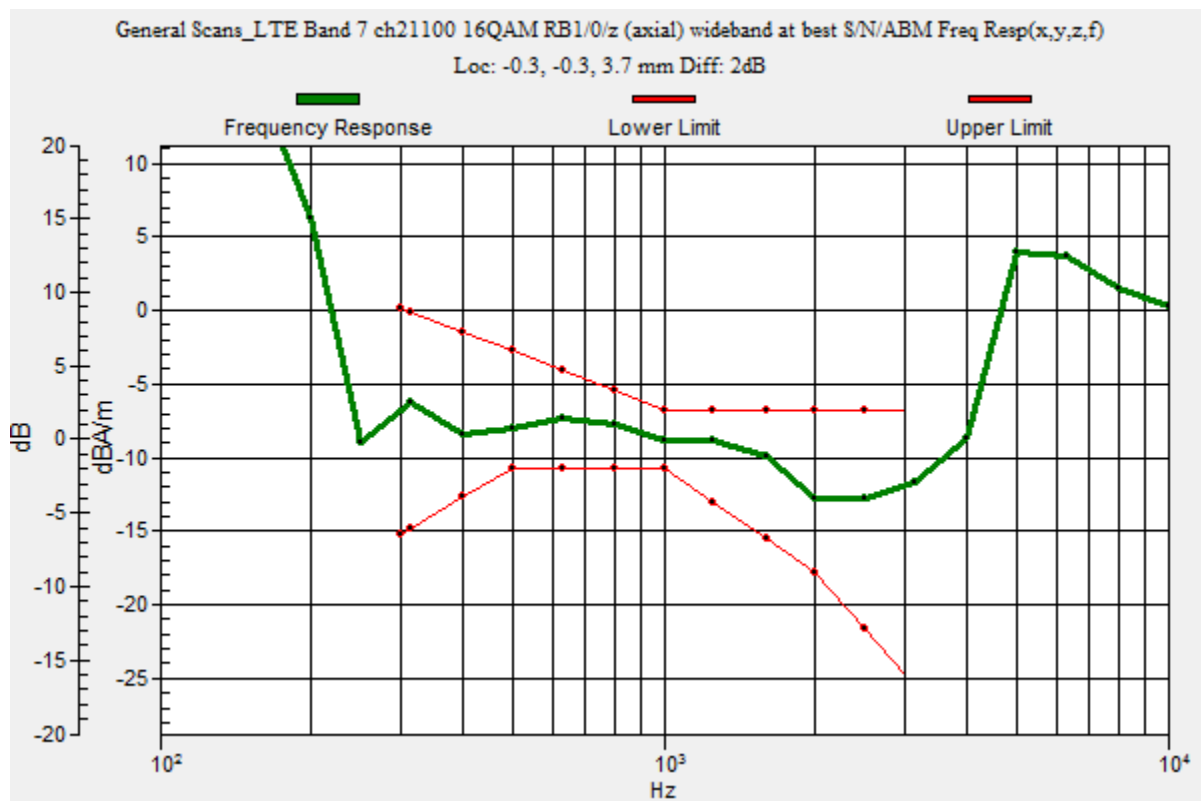
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -0.3, -0.3, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 ch21100 16QAM RB1/0 codec64/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.28 dB

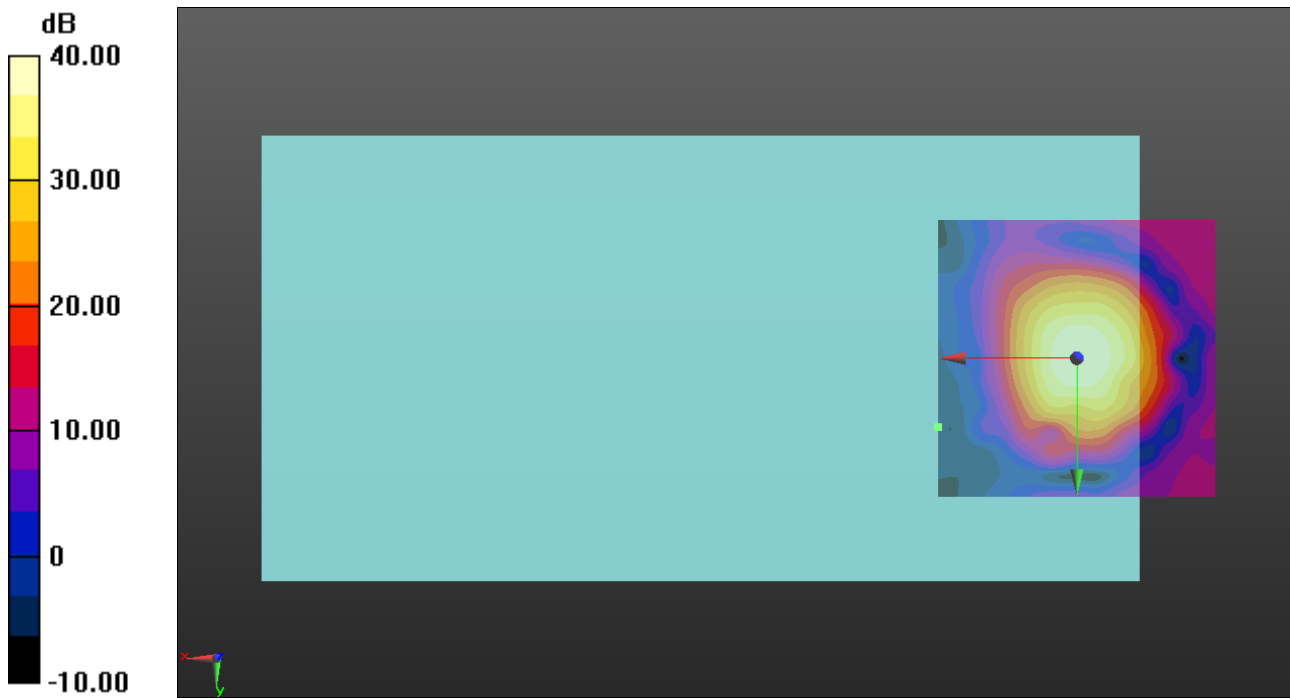
ABM1 comp = -2.86 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, -0.4, 3.7 mm

ABM2 = -18.13 dBA/m

Location: 25, 12.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2535 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 ch21100 16QAM RB1/0 codec64/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.74 dB

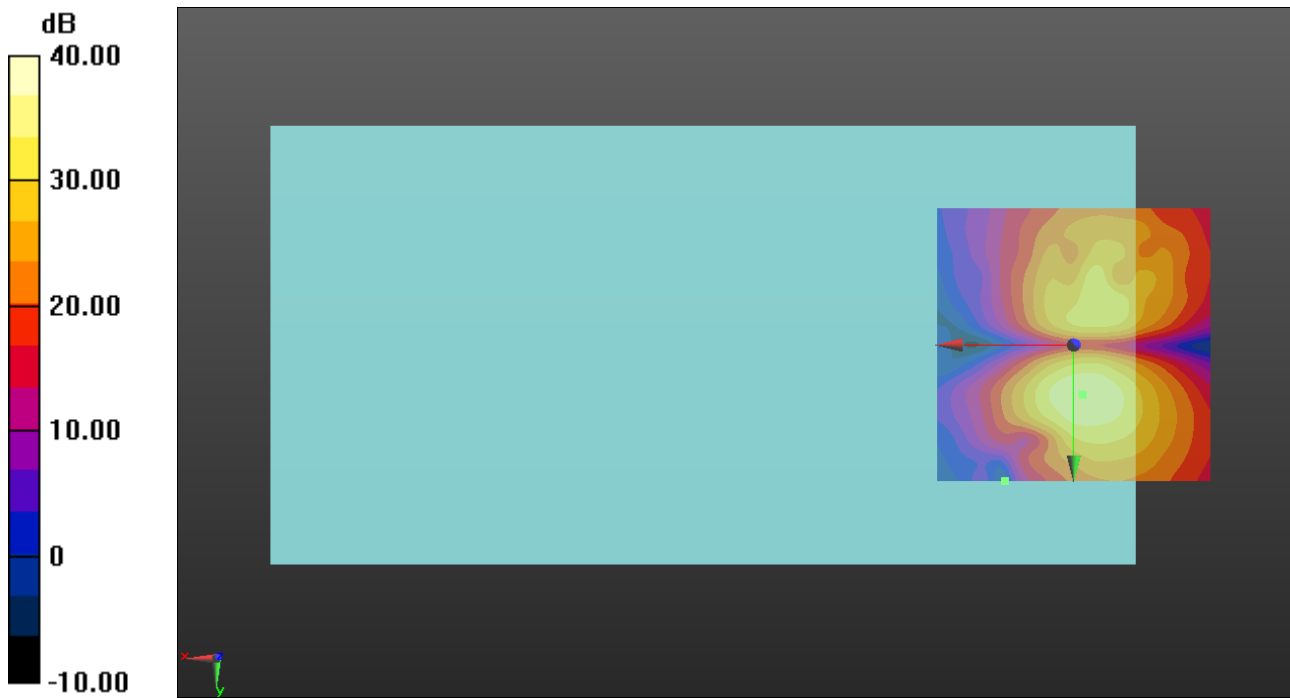
ABM1 comp = -12.47 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 9.2, 3.7 mm

ABM2 = -21.87 dBA/m

Location: 12.5, 25, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 707.5 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23095 16QAM RB1/0 codec64/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement

grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

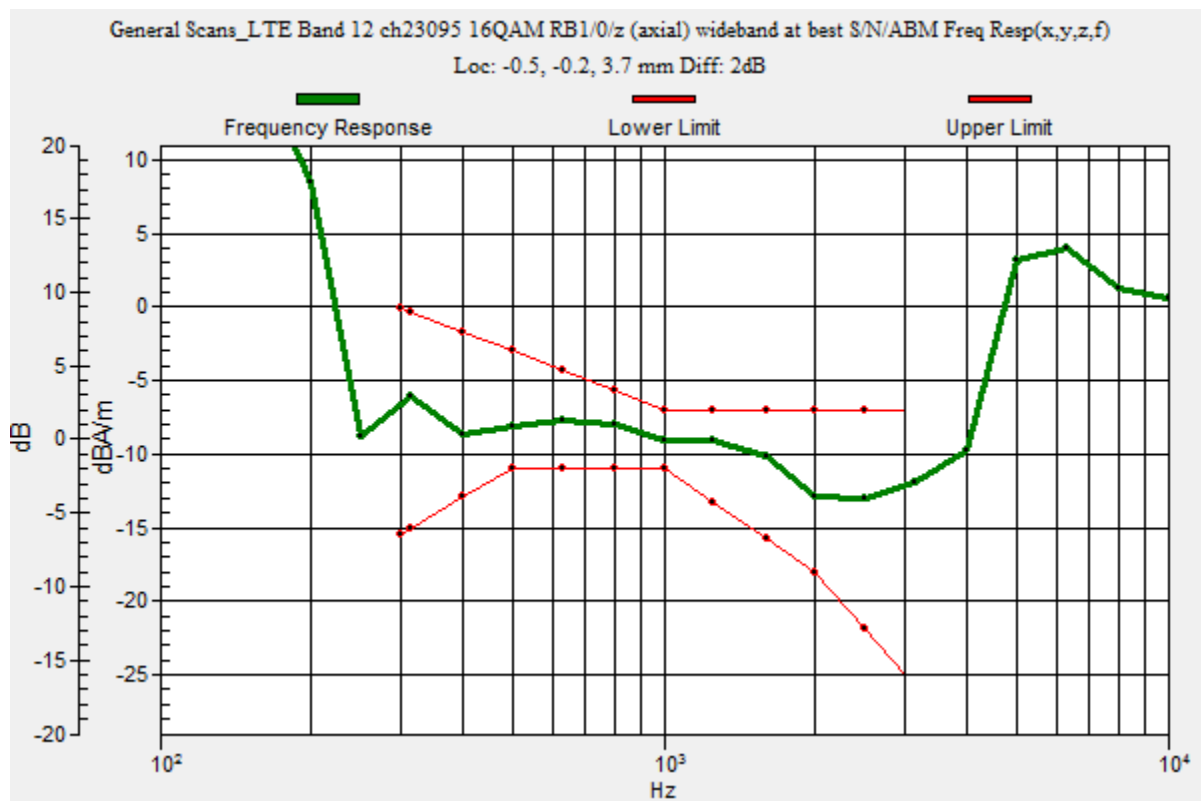
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -0.5, -0.2, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23095 16QAM RB1/0 codec64/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.59 dB

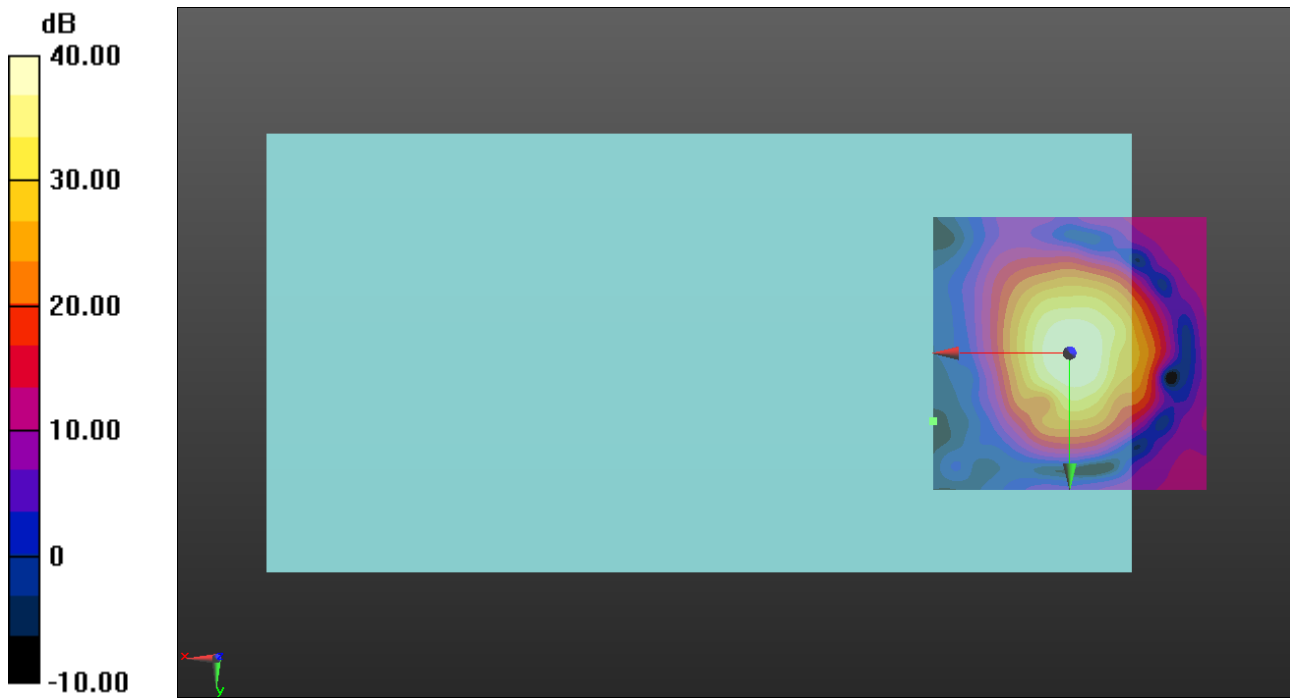
ABM1 comp = -3.20 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 0, 3.7 mm

ABM2 = -18.41 dBA/m

Location: 25, 12.5, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 707.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 ch23095 16QAM RB1/0 codec64/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.47 dB

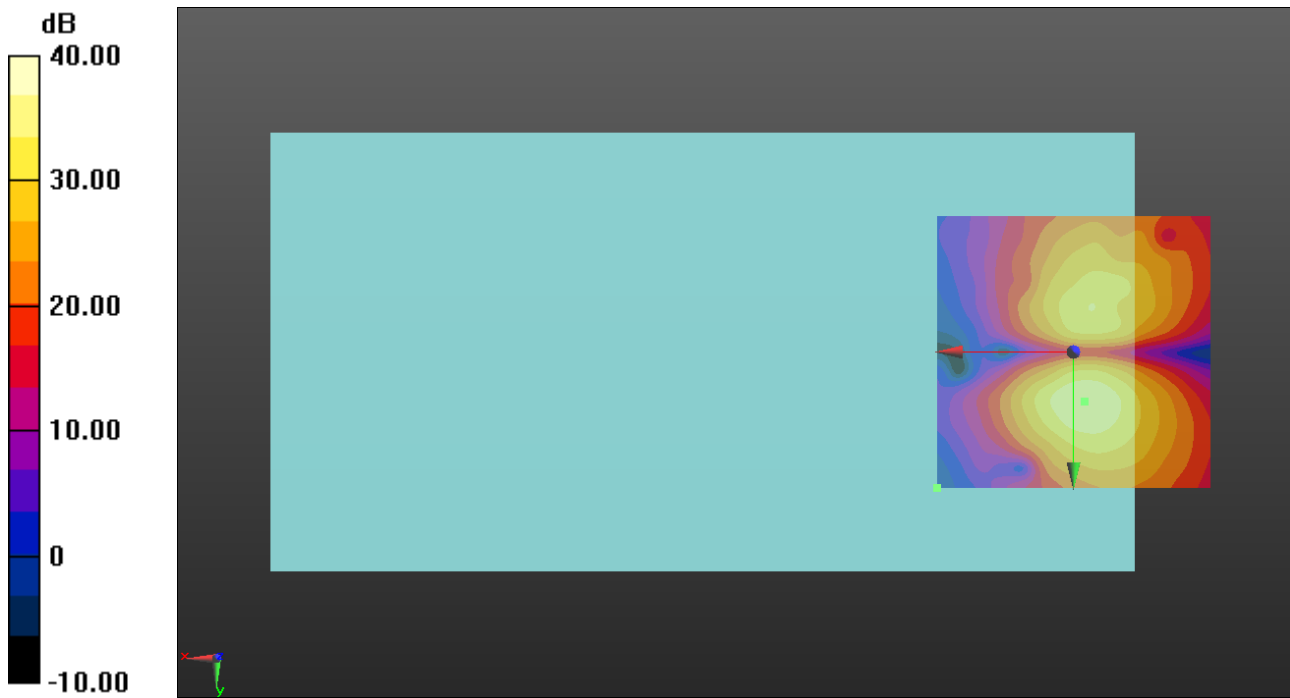
ABM1 comp = -12.84 dBA/m

BWC Factor = 0.16 dB

Location: -2.1, 9.2, 3.7 mm

ABM2 = -26.01 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2310 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 ch27710 16QAM RB1/0 codec64/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement

grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

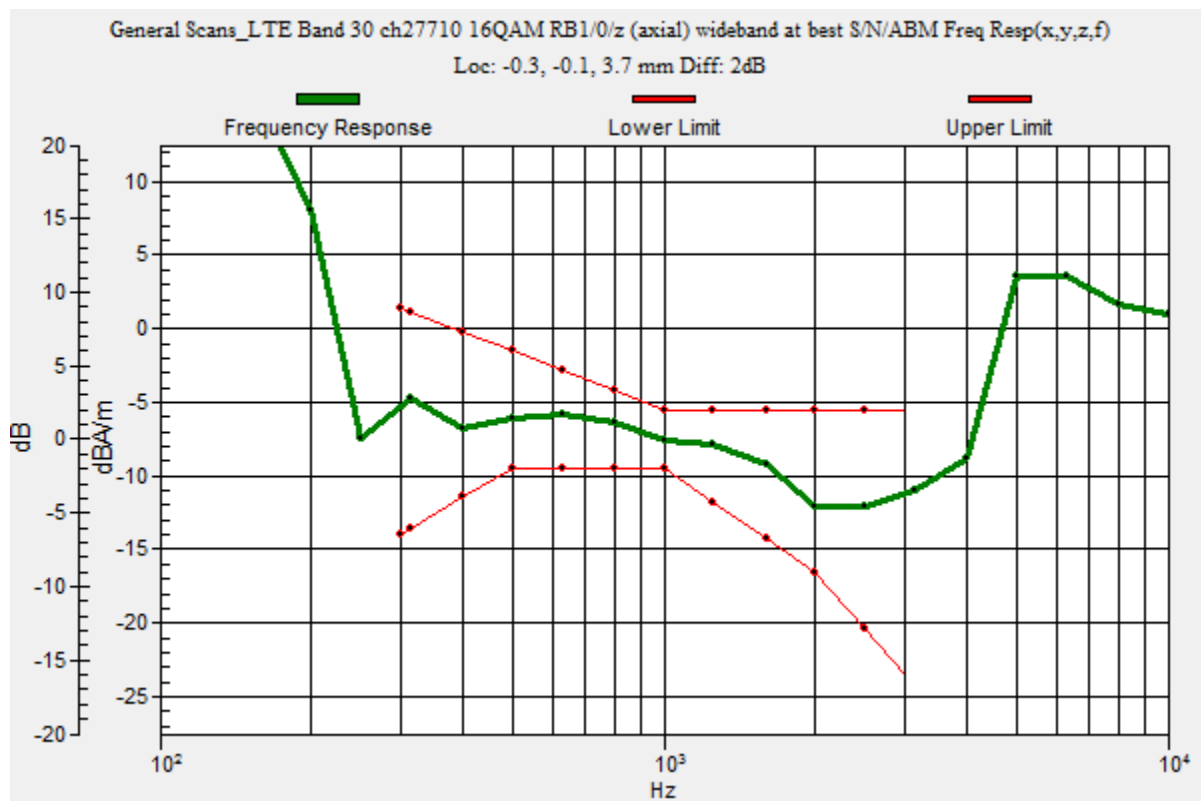
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: -0.3, -0.1, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 ch27710 16QAM RB1/0 codec64/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 42.33 dB

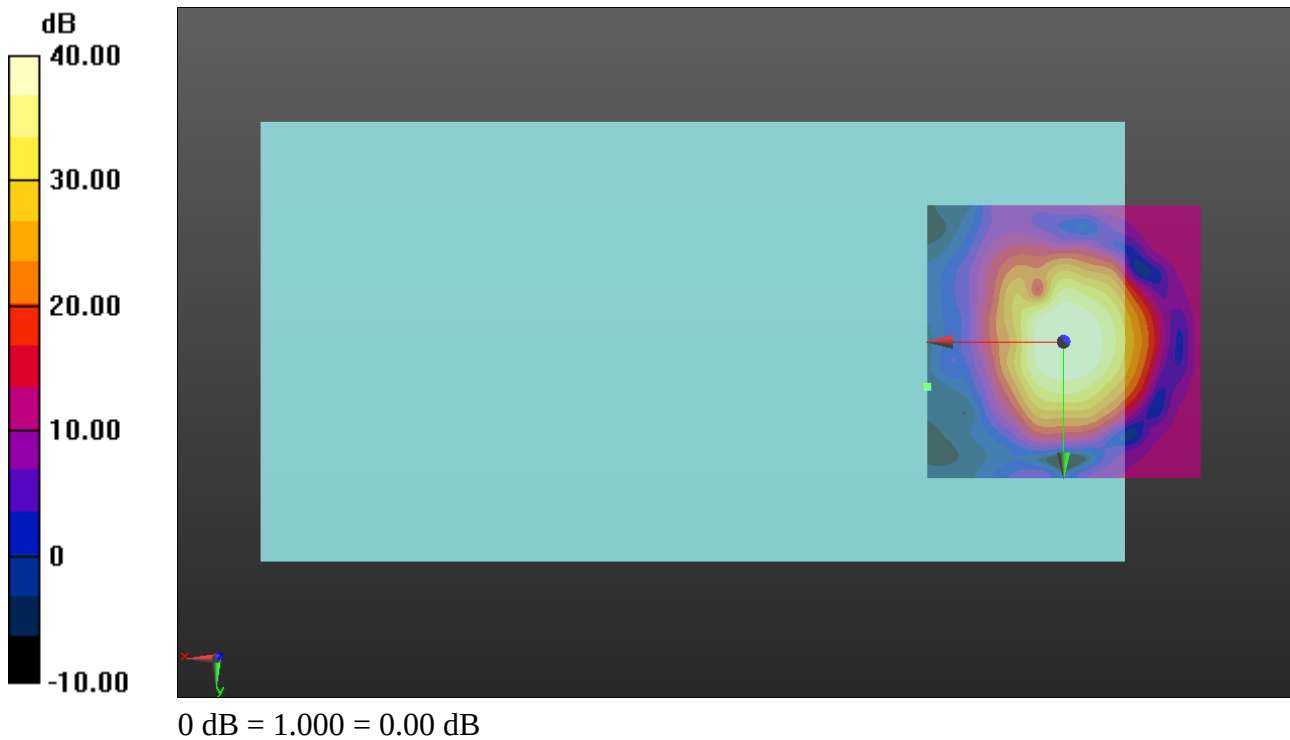
ABM1 comp = -2.07 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 0, 3.7 mm

ABM2 = -19.64 dBA/m

Location: 25, 8.3, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 ch27710 16QAM RB1/0 codec64/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.84 dB

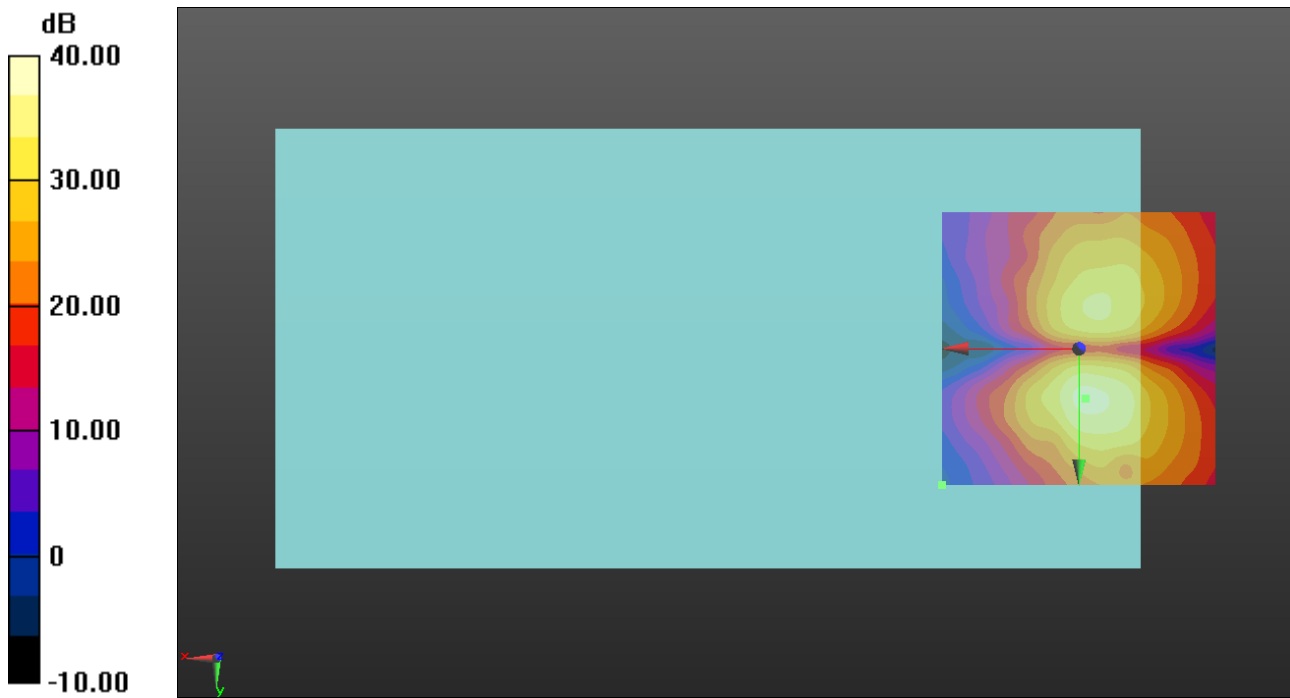
ABM1 comp = -11.33 dBA/m

BWC Factor = 0.16 dB

Location: -1.2, 9.2, 3.7 mm

ABM2 = -25.81 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 16QAM RB1/0 codec64/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement

grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

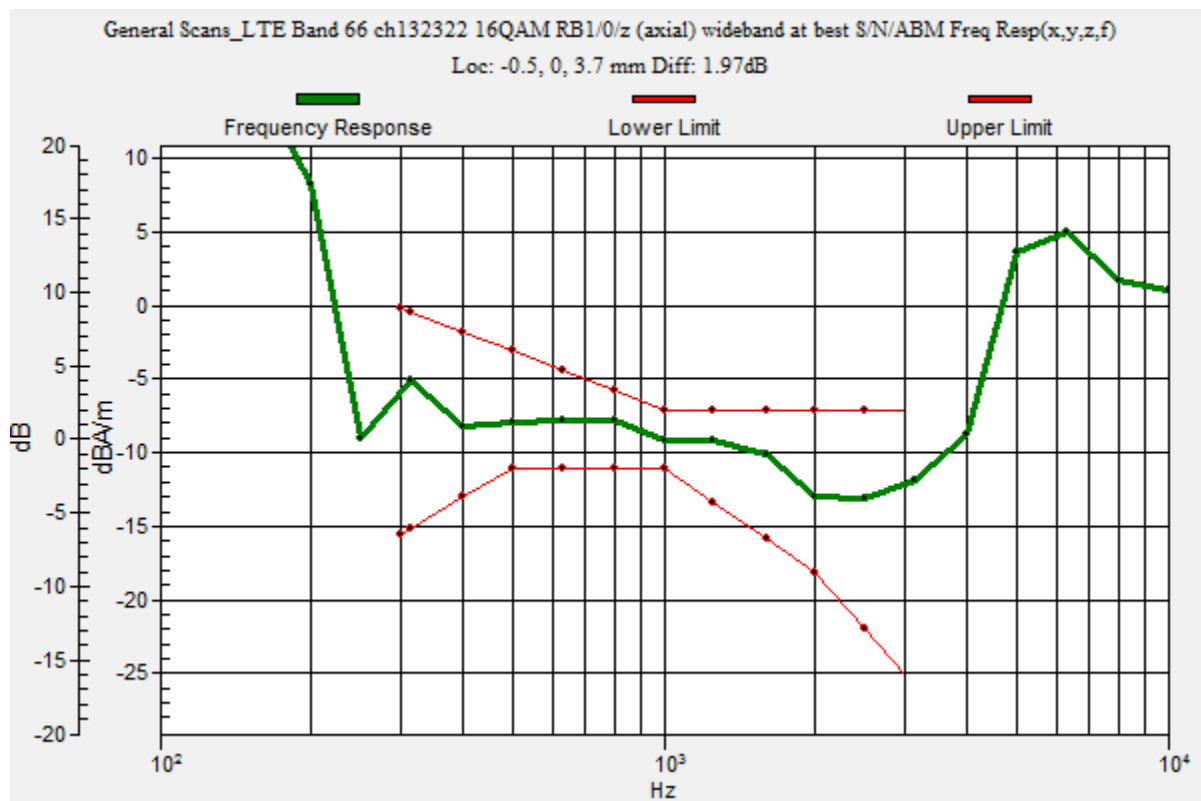
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.97 dB

BWC Factor = 10.80 dB

Location: -0.5, 0, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 16QAM RB1/0 codec64/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.78 dB

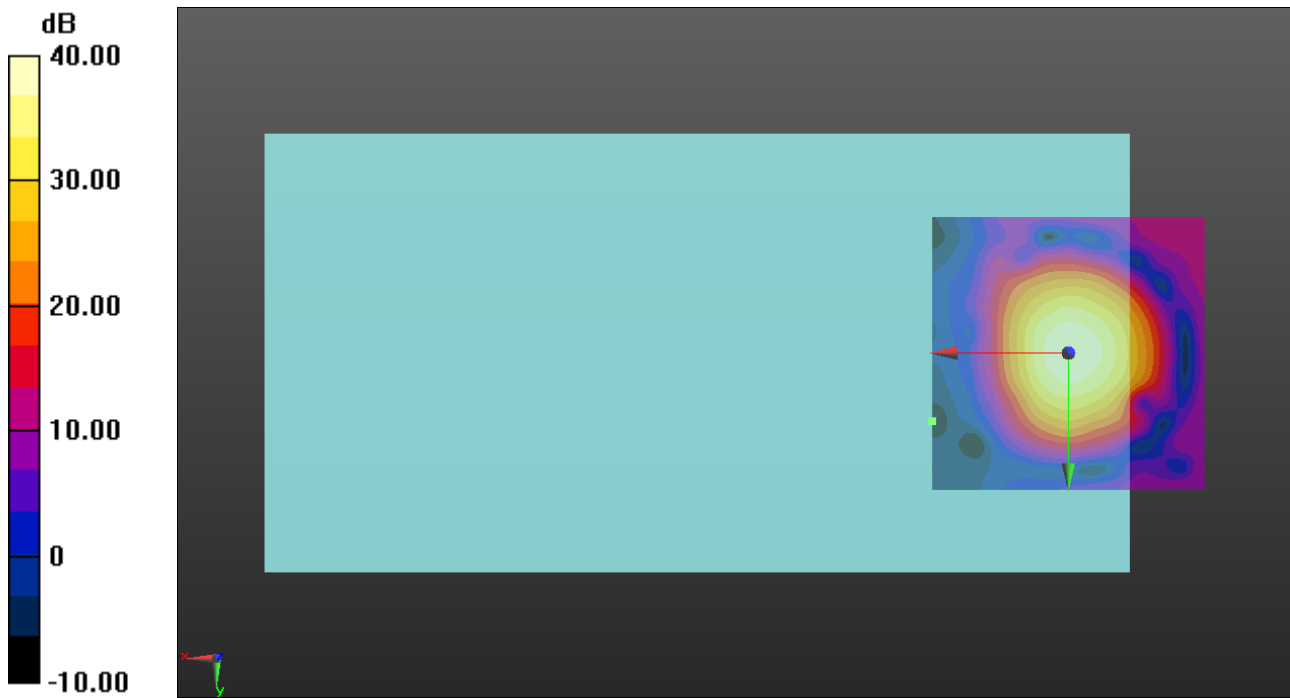
ABM1 comp = -2.77 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 0, 3.7 mm

ABM2 = -9.73 dBA/m

Location: 25, 12.5, 3.7 mm



OTT_LTE FDD

Communication System: UID 0, LTE (FDD) (0); Frequency: 1745 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 ch132322 16QAM RB1/0 codec64/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.34 dB

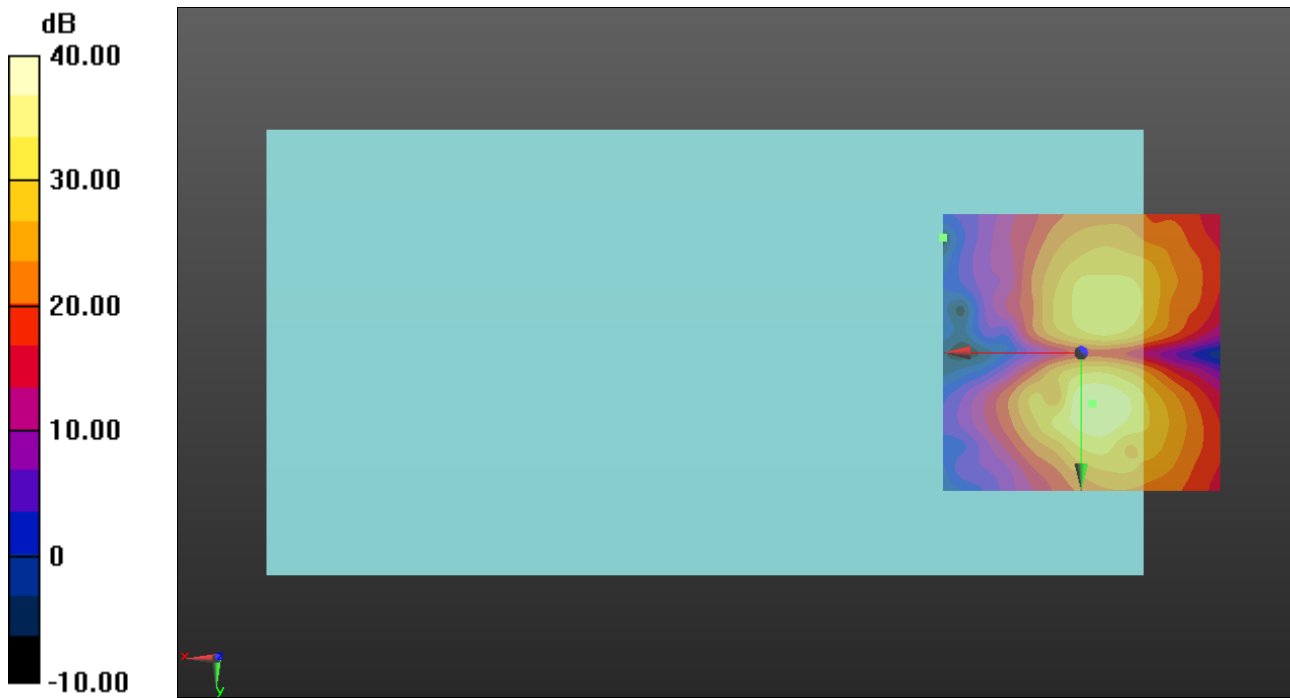
ABM1 comp = -12.94 dBA/m

BWC Factor = 0.16 dB

Location: -2.1, 9.2, 3.7 mm

ABM2 = -19.94 dBA/m

Location: 25, -20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1.59956

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 40 ch38750 QPSK RB1/0 codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid:

dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

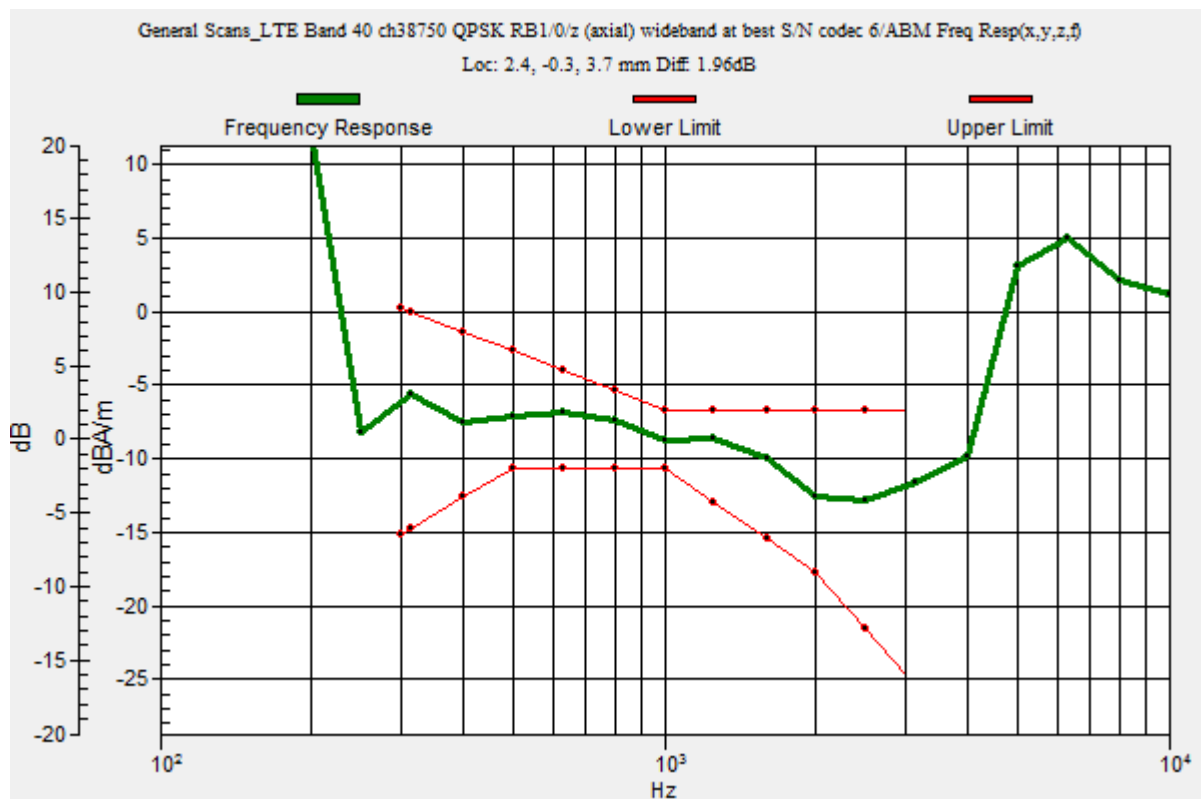
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.96 dB

BWC Factor = 10.80 dB

Location: 2.4, -0.3, 3.7 mm



LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 40 ch38750 QPSK RB1/0 codec6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.29 dB

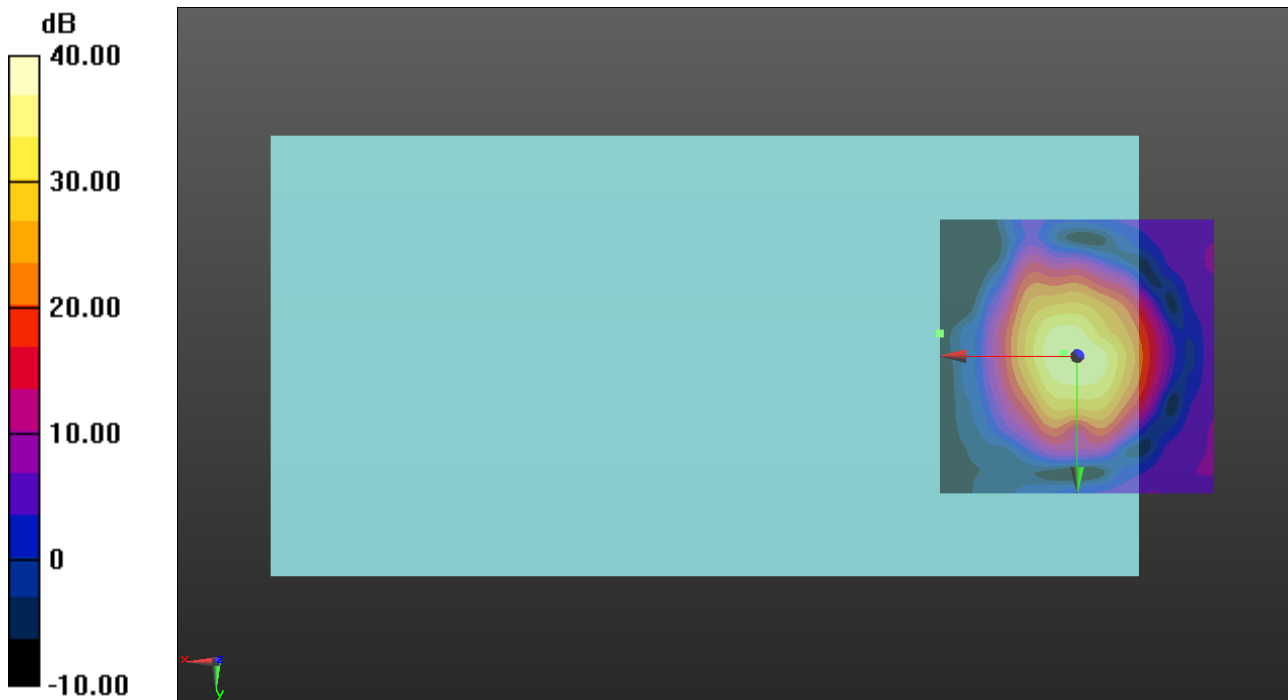
ABM1 comp = -5.20 dBA/m

BWC Factor = 0.16 dB

Location: 2.5, -0.4, 3.7 mm

ABM2 = -12.10 dBA/m

Location: 25, -4.2, 3.7 mm



LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2310 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 40 ch38750 QPSK RB1/0 codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.13 dB

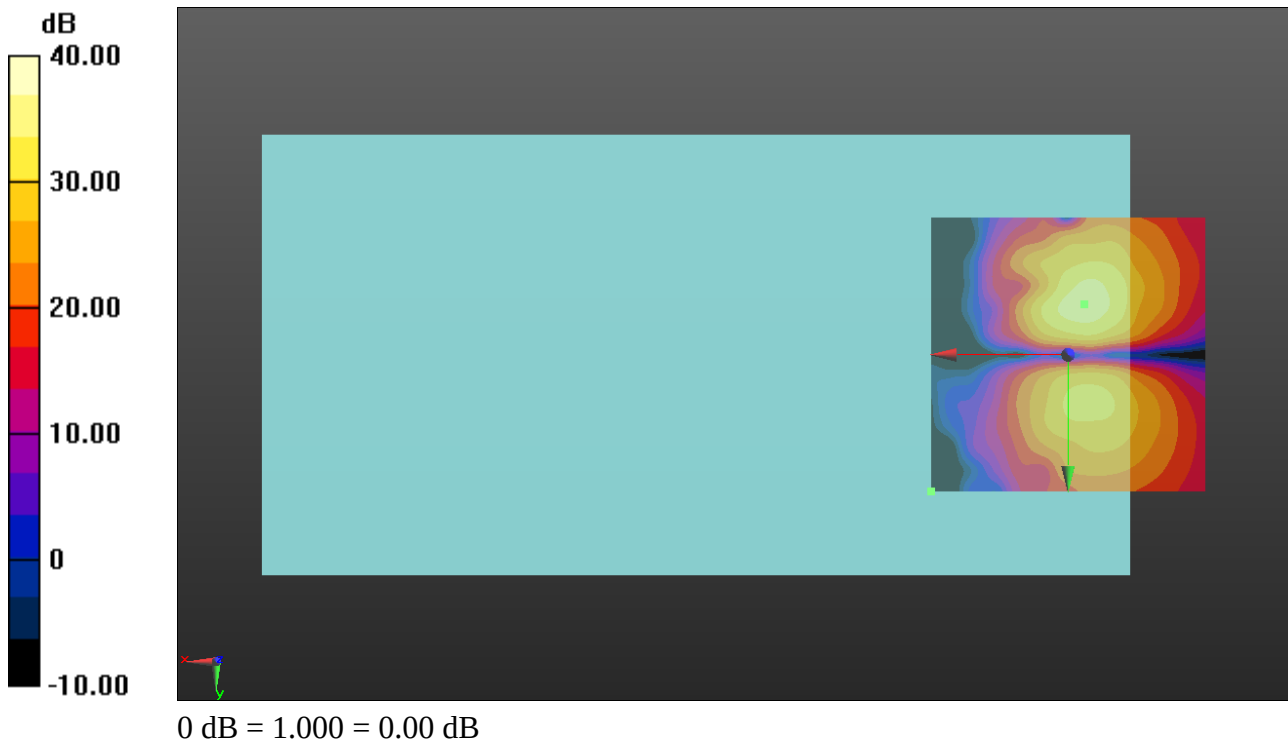
ABM1 comp = -12.67 dBA/m

BWC Factor = 0.16 dB

Location: -2.9, -9.2, 3.7 mm

ABM2 = -10.89 dBA/m

Location: 25, 25, 3.7 mm



OTT_LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 ch40620 QPSK RB1/0 codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid:

dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

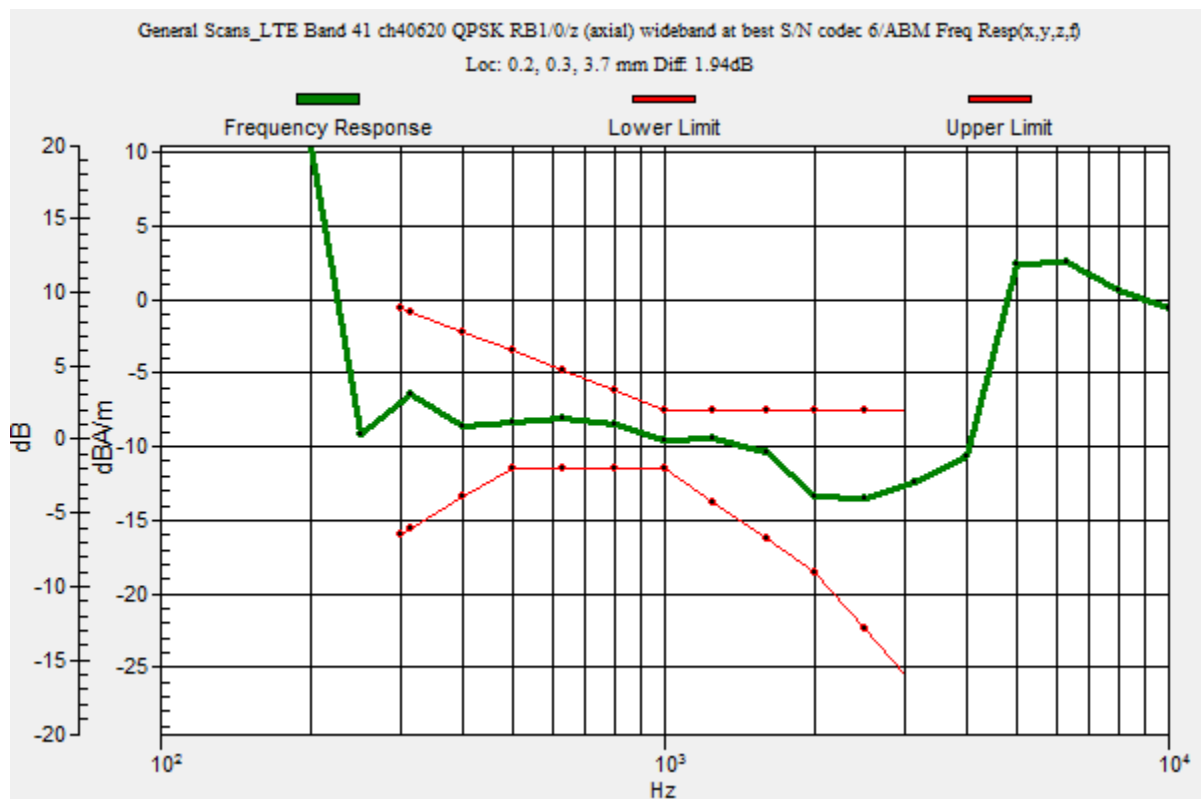
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.94 dB

BWC Factor = 10.80 dB

Location: 0.2, 0.3, 3.7 mm



OTT_LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 ch40620 QPSK RB1/0 codec6/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.61 dB

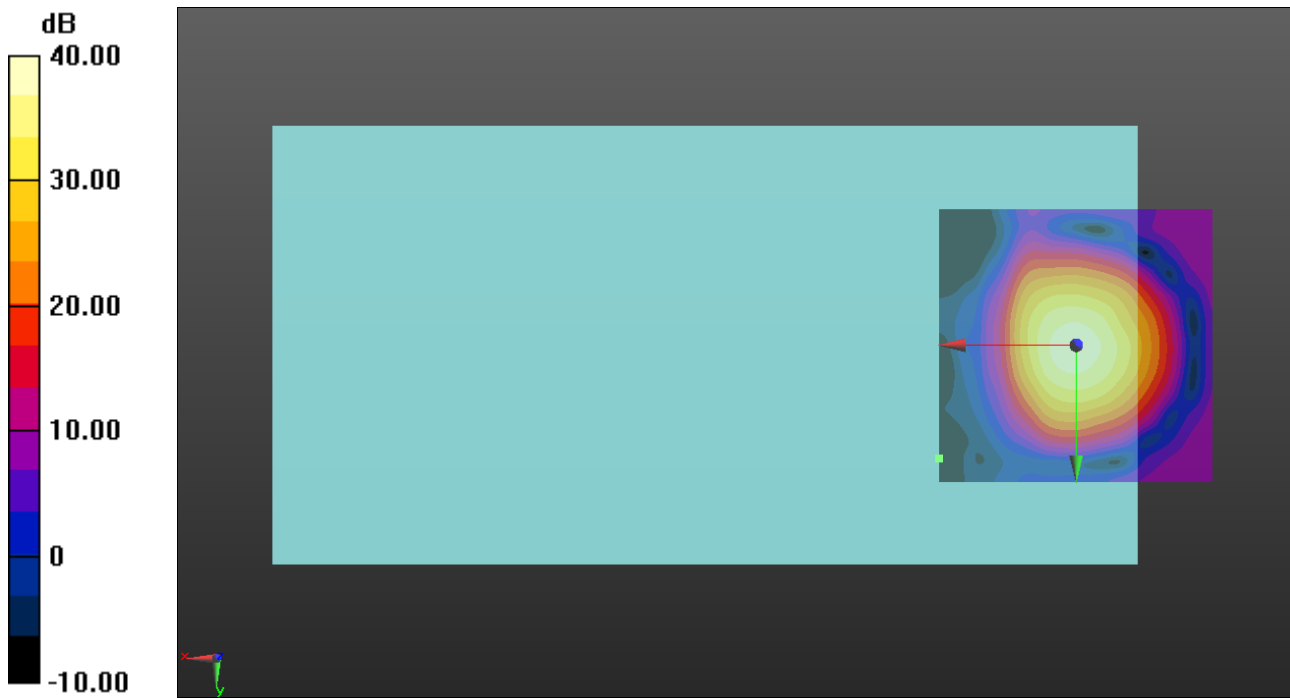
ABM1 comp = -4.30 dBA/m

BWC Factor = 0.16 dB

Location: 0, 0.4, 3.7 mm

ABM2 = -9.84 dBA/m

Location: 25, 20.8, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_LTE TDD

Communication System: UID 0, LTE (TDD) (0); Frequency: 2593 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 ch40620 QPSK RB1/0 codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1):

Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 33.14 dB

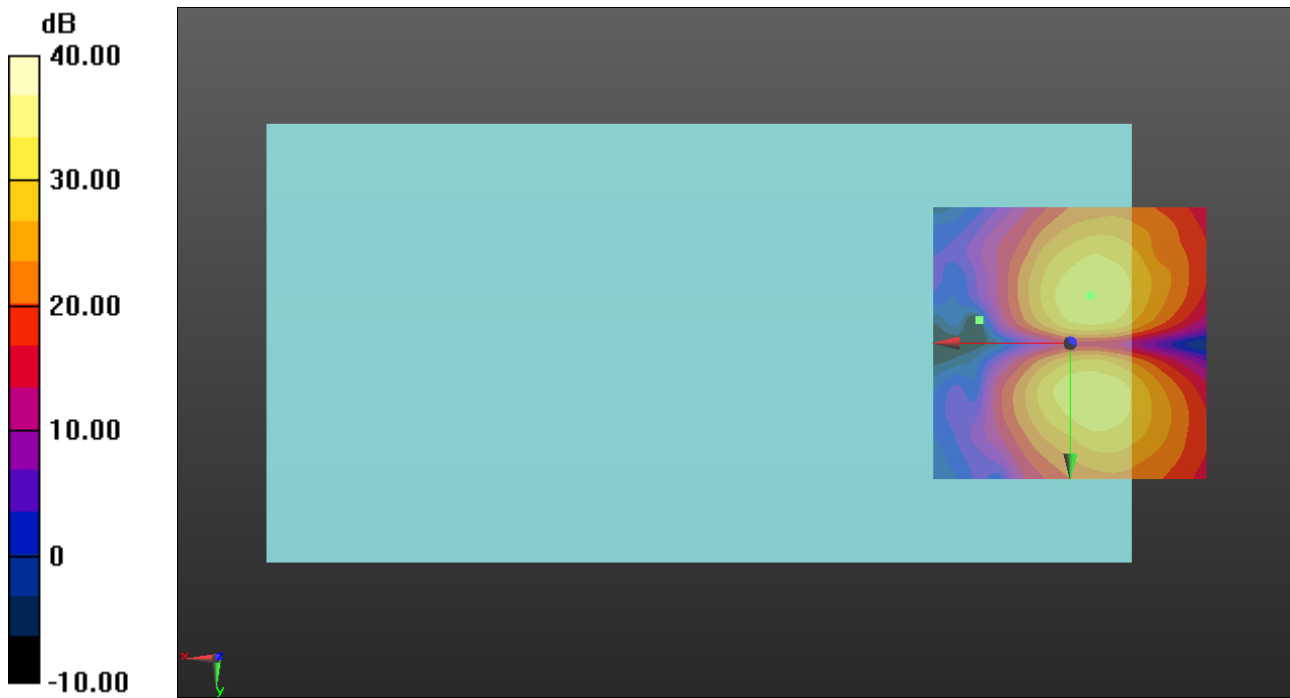
ABM1 comp = -13.55 dBA/m

BWC Factor = 0.16 dB

Location: -3.7, -8.8, 3.7 mm

ABM2 = -18.20 dBA/m

Location: 16.7, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WiFi

Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11b ch6 1Mbps codec64/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

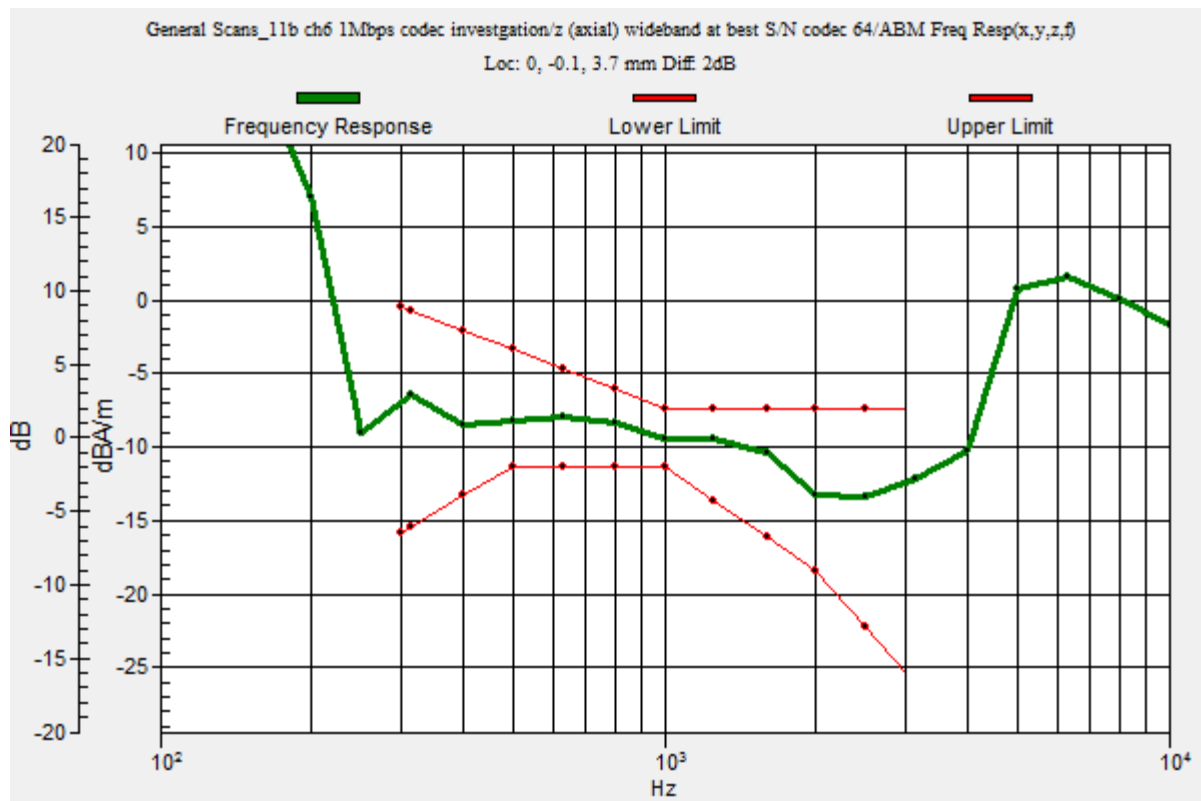
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 0, -0.1, 3.7 mm



OTT_WiFi

Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11b ch6 1Mbps codec64/z (axial)

4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.12 dB

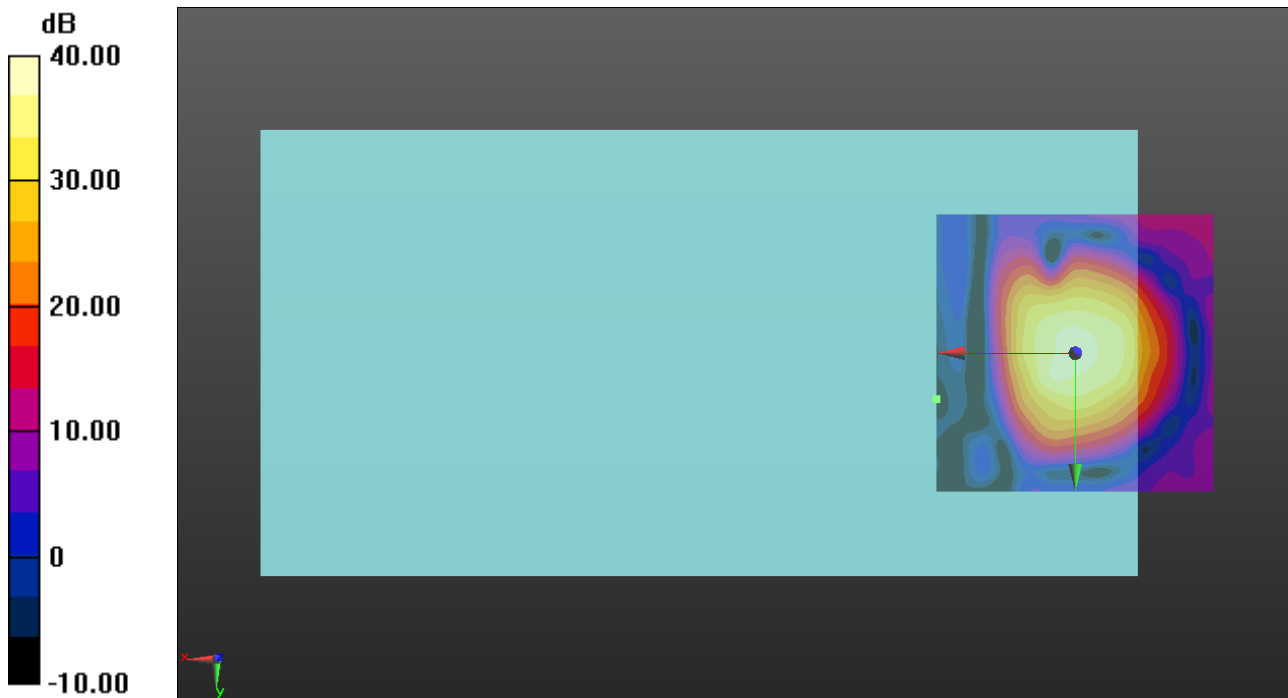
ABM1 comp = -3.79 dBA/m

BWC Factor = 0.16 dB

Location: 0, 0, 3.7 mm

ABM2 = -14.66 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WiFi

Communication System: UID 0, IEEE 802.11b/g/n 2.4 GHz Band (0); Frequency: 2437 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11b ch6 1Mbps codec64/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.39 dB

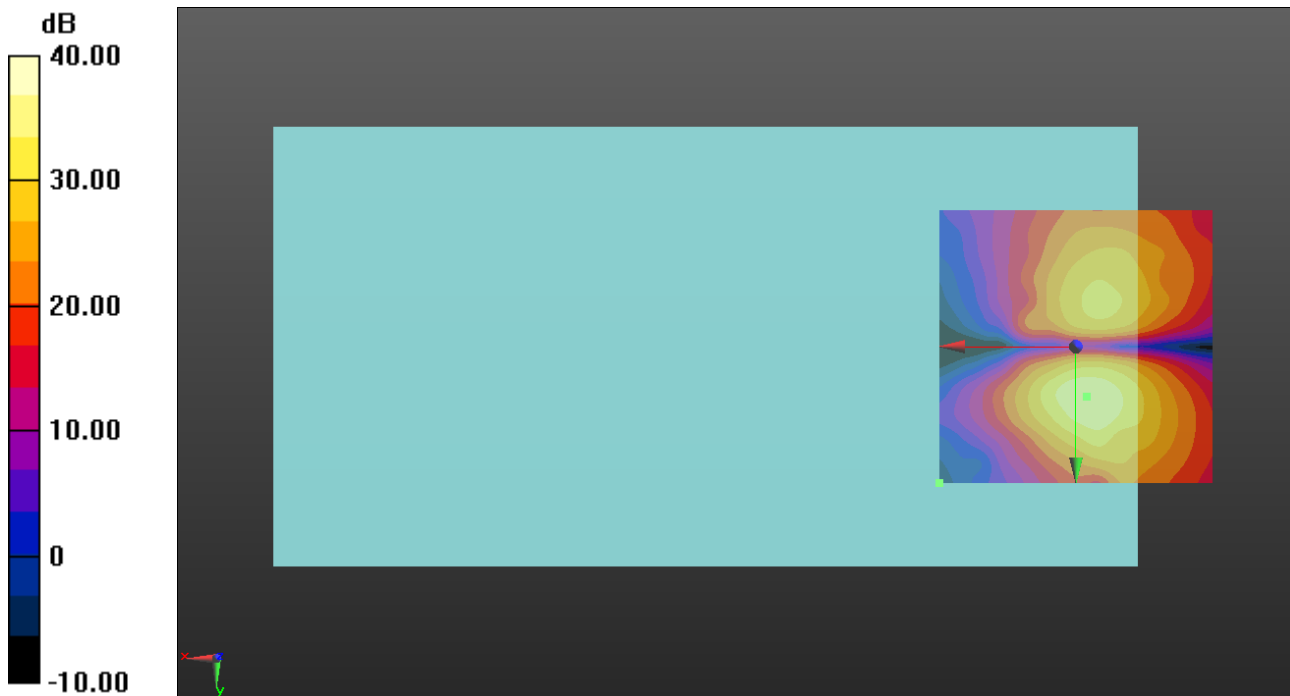
ABM1 comp = -12.99 dBA/m

BWC Factor = 0.16 dB

Location: -2.1, 9.2, 3.7 mm

ABM2 = -23.63 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5200 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch40 54Mbps codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

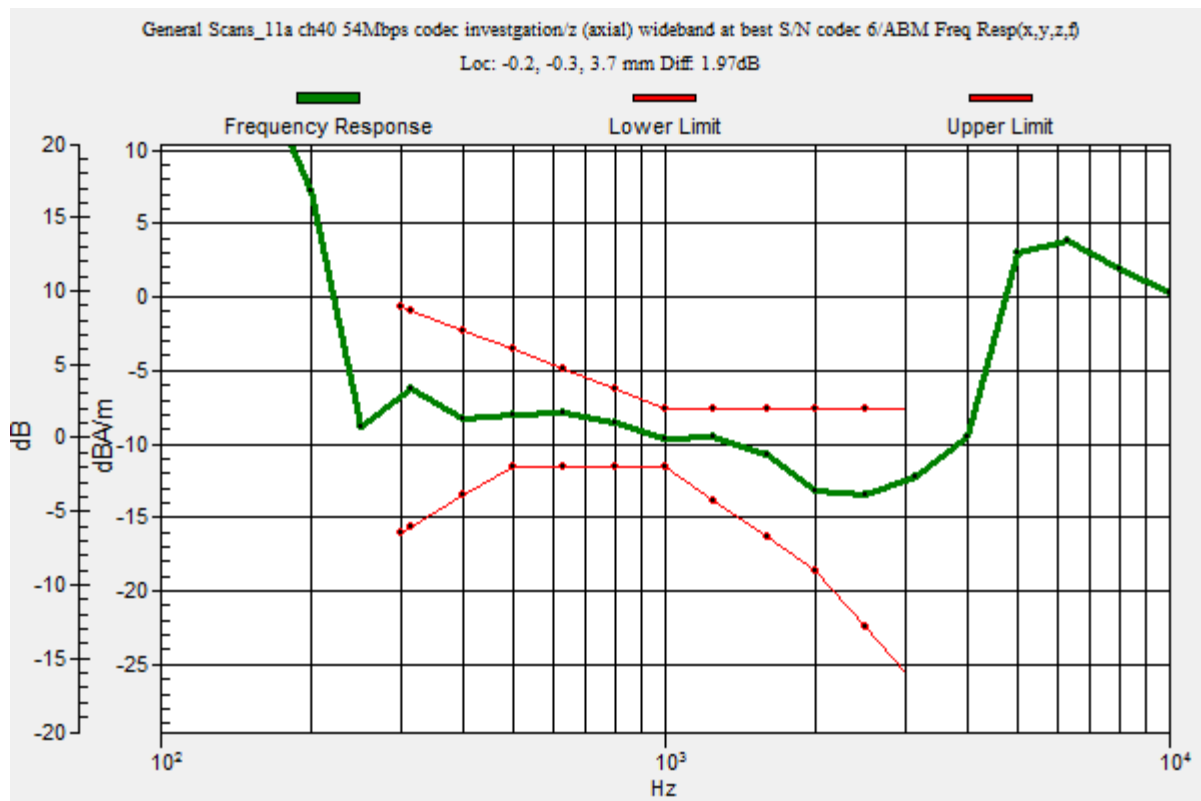
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.97 dB

BWC Factor = 10.80 dB

Location: -0.2, -0.3, 3.7 mm



OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch40 54Mbps codec6/z (axial)

4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.27 dB

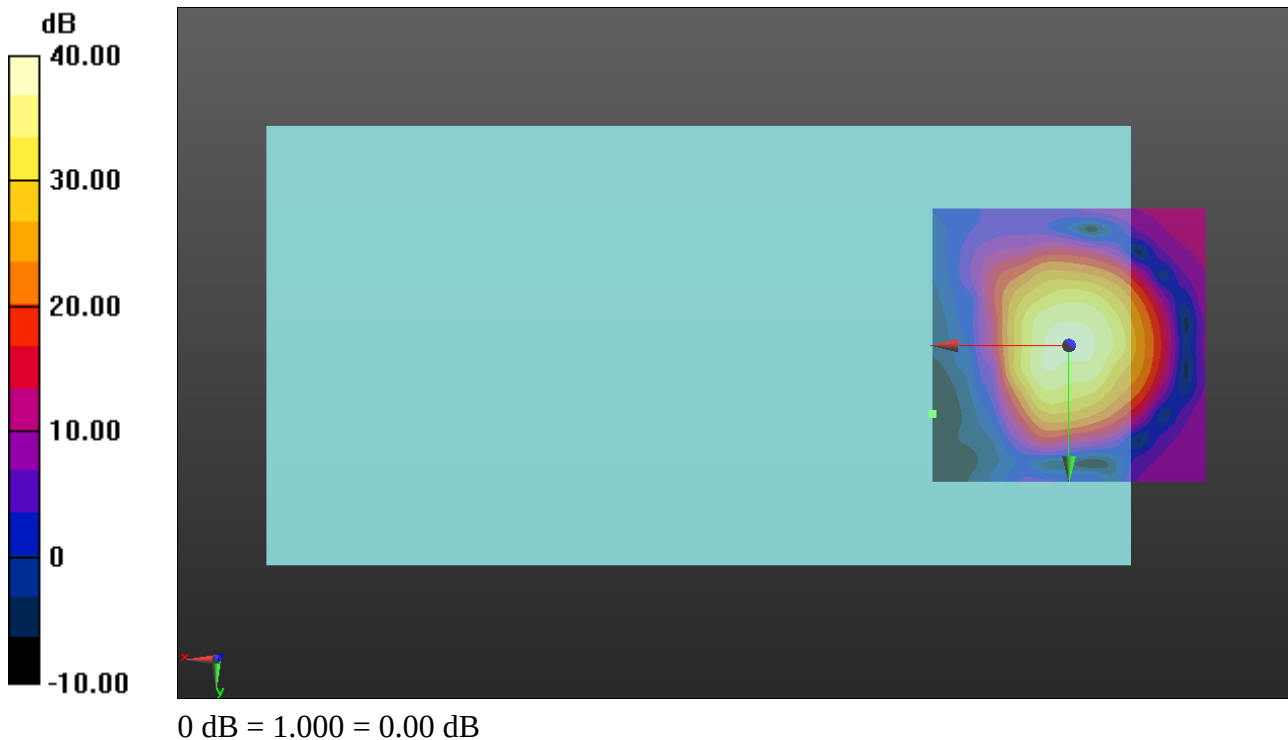
ABM1 comp = -3.50 dBA/m

BWC Factor = 0.16 dB

Location: 0, -0.4, 3.7 mm

ABM2 = -16.41 dBA/m

Location: 25, 12.5, 3.7 mm



OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5200 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch40 54Mbps codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.25 dB

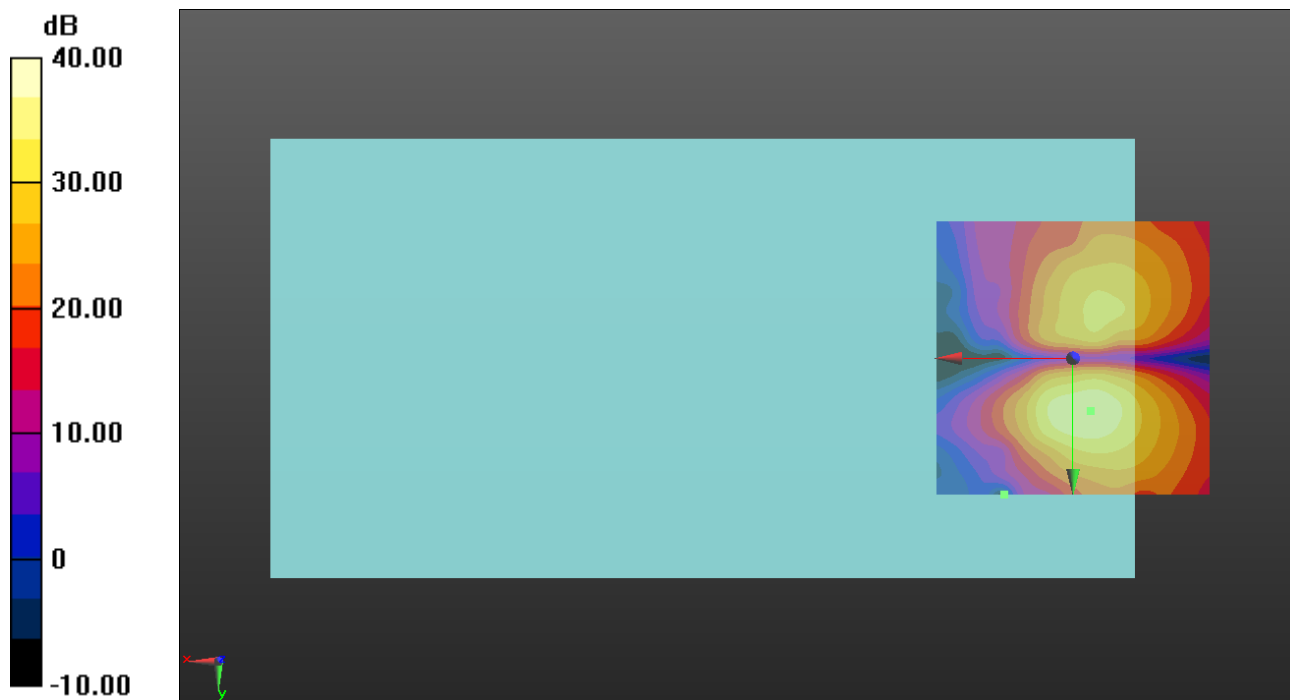
ABM1 comp = -13.45 dBA/m

BWC Factor = 0.16 dB

Location: -3.3, 9.6, 3.7 mm

ABM2 = -18.07 dBA/m

Location: 12.5, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5280 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch56 54Mbps codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

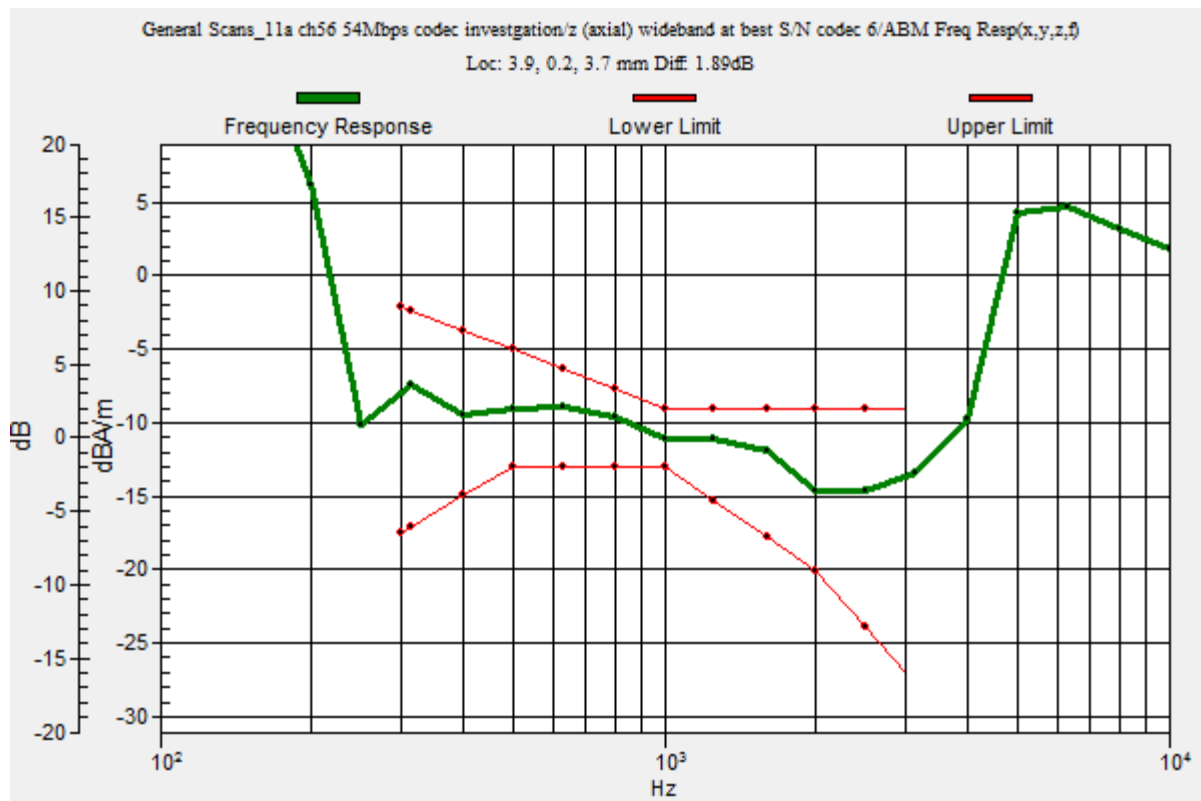
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.89 dB

BWC Factor = 10.80 dB

Location: 3.9, 0.2, 3.7 mm



OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5280 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch56 54Mbps codec6/z (axial)

4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.09 dB

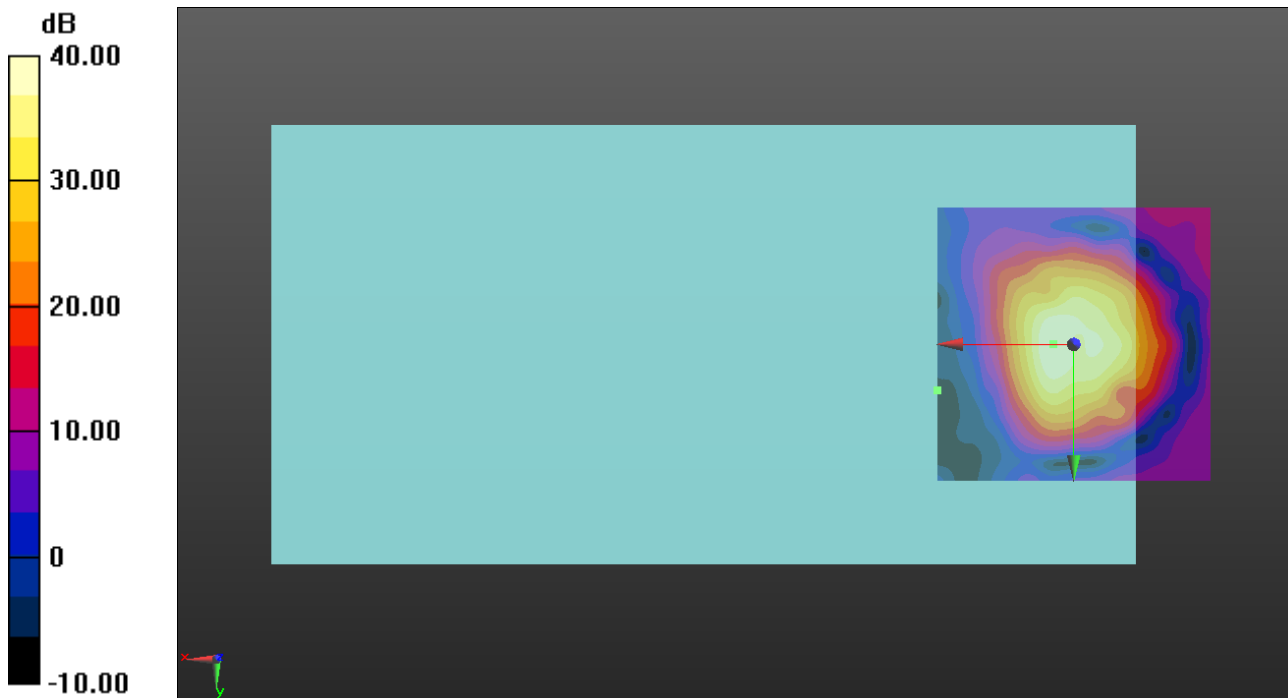
ABM1 comp = -4.76 dBA/m

BWC Factor = 0.16 dB

Location: 3.8, 0, 3.7 mm

ABM2 = -17.31 dBA/m

Location: 25, 8.3, 3.7 mm



OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5280 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch56 54Mbps codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.45 dB

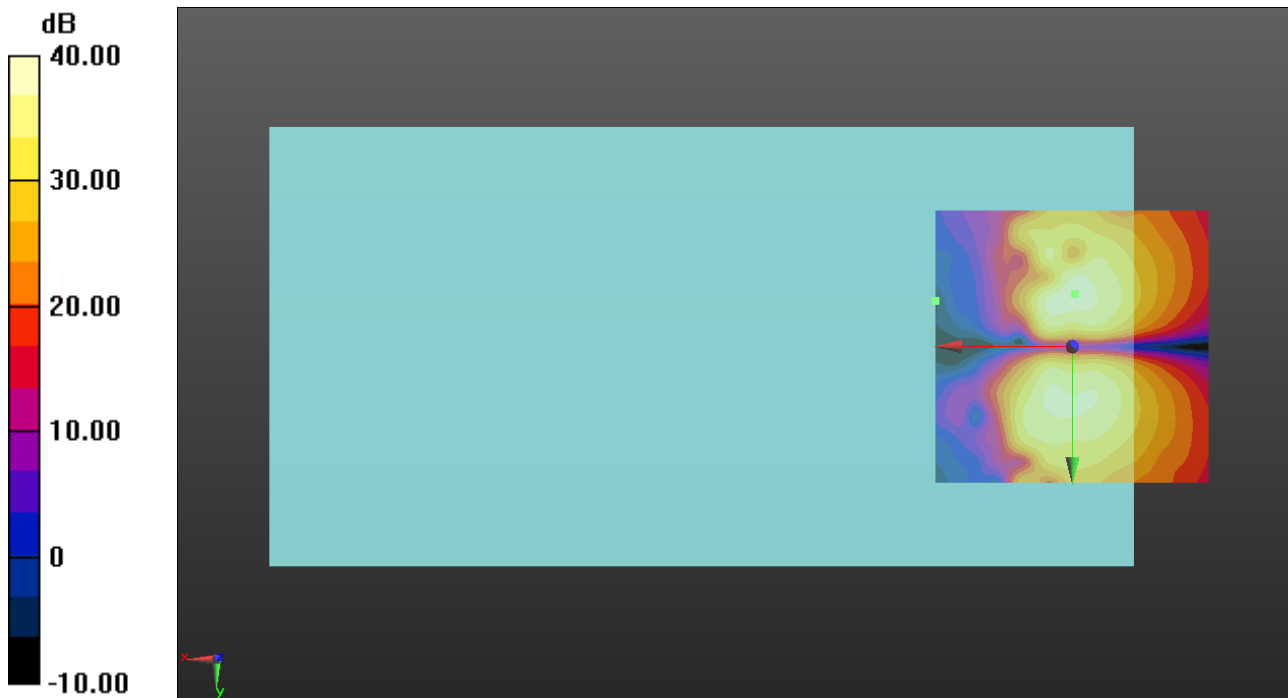
ABM1 comp = -12.76 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, -9.6, 3.7 mm

ABM2 = -22.28 dBA/m

Location: 25, -8.3, 3.7 mm



OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5580 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch116 54Mbps codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

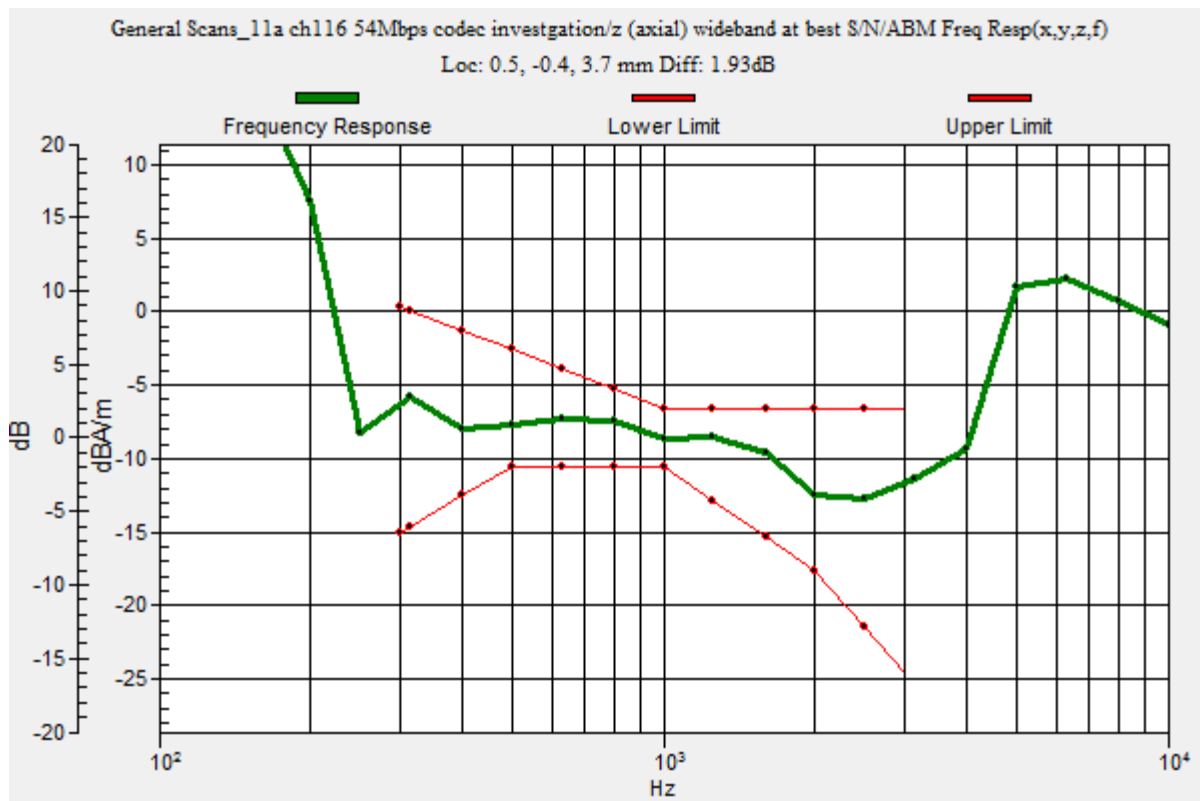
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.93 dB

BWC Factor = 10.80 dB

Location: 0.5, -0.4, 3.7 mm



OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5580 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch116 54Mbps codec6/z (axial)

4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.96 dB

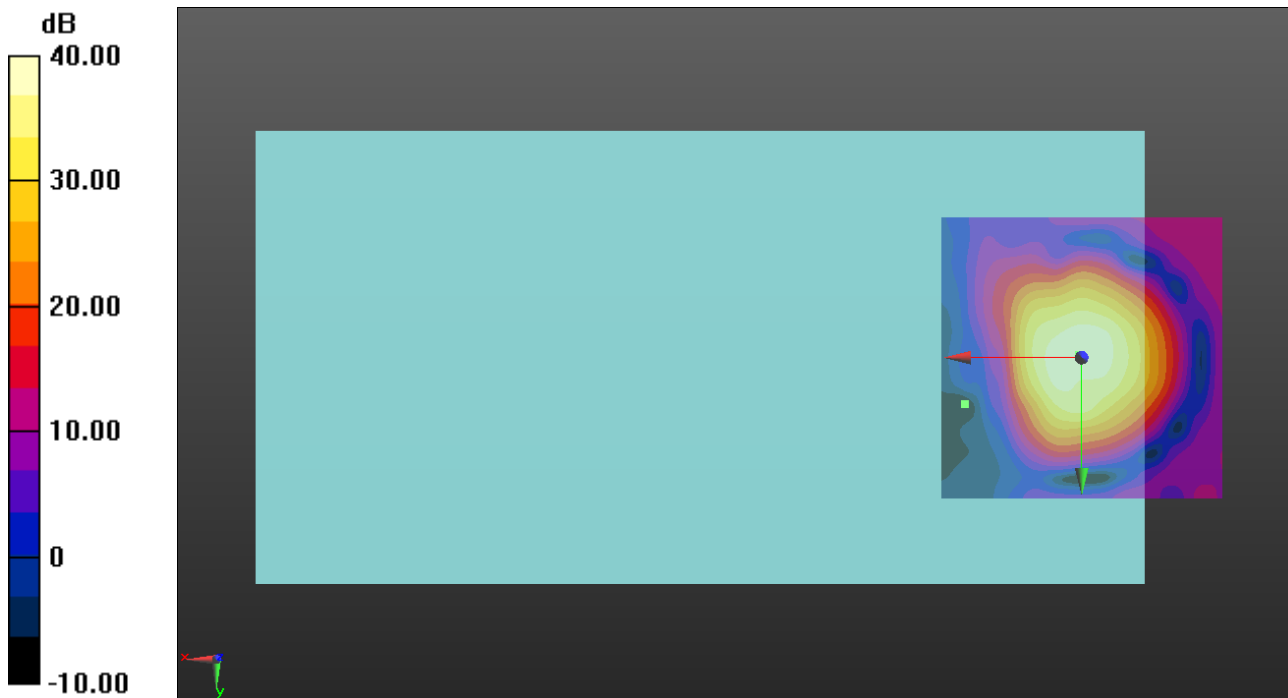
ABM1 comp = -2.68 dBA/m

BWC Factor = 0.16 dB

Location: 0.4, -0.4, 3.7 mm

ABM2 = -14.33 dBA/m

Location: 20.8, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5580 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch116 54Mbps codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.59 dB

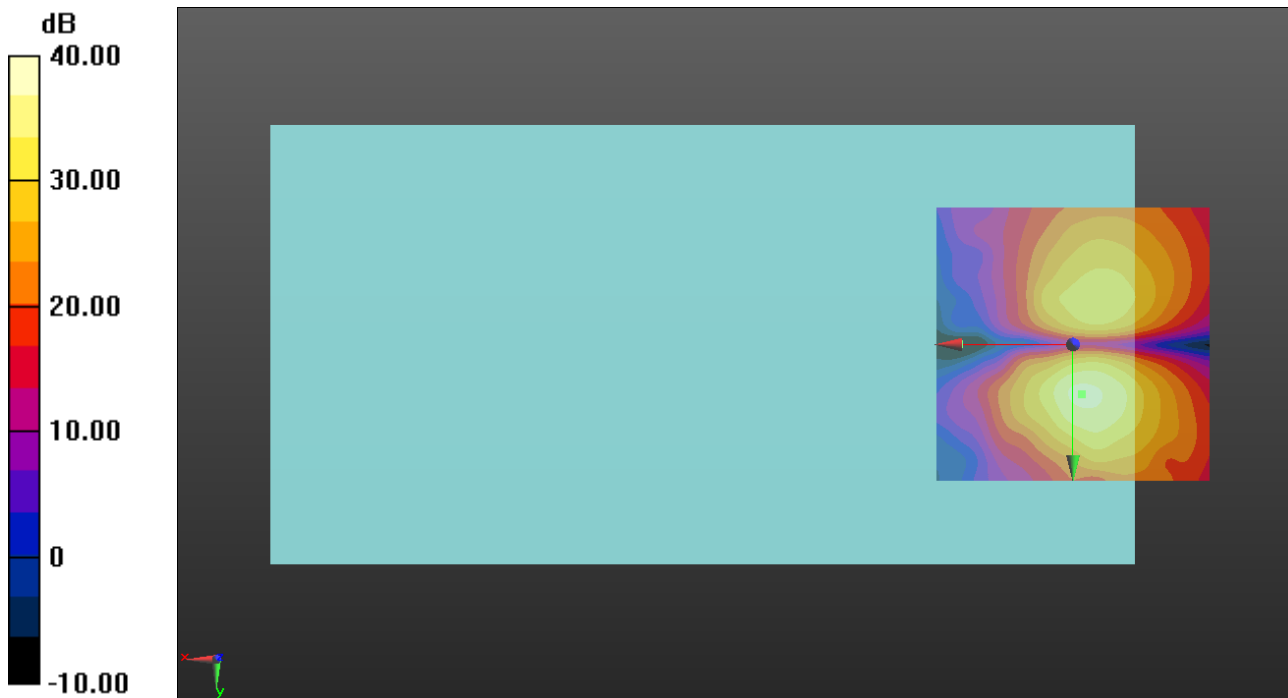
ABM1 comp = -11.84 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 9.2, 3.7 mm

ABM2 = -23.12 dBA/m

Location: 20.8, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5785 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch157 54Mbps codec6/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav

Output Gain: 40.07

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

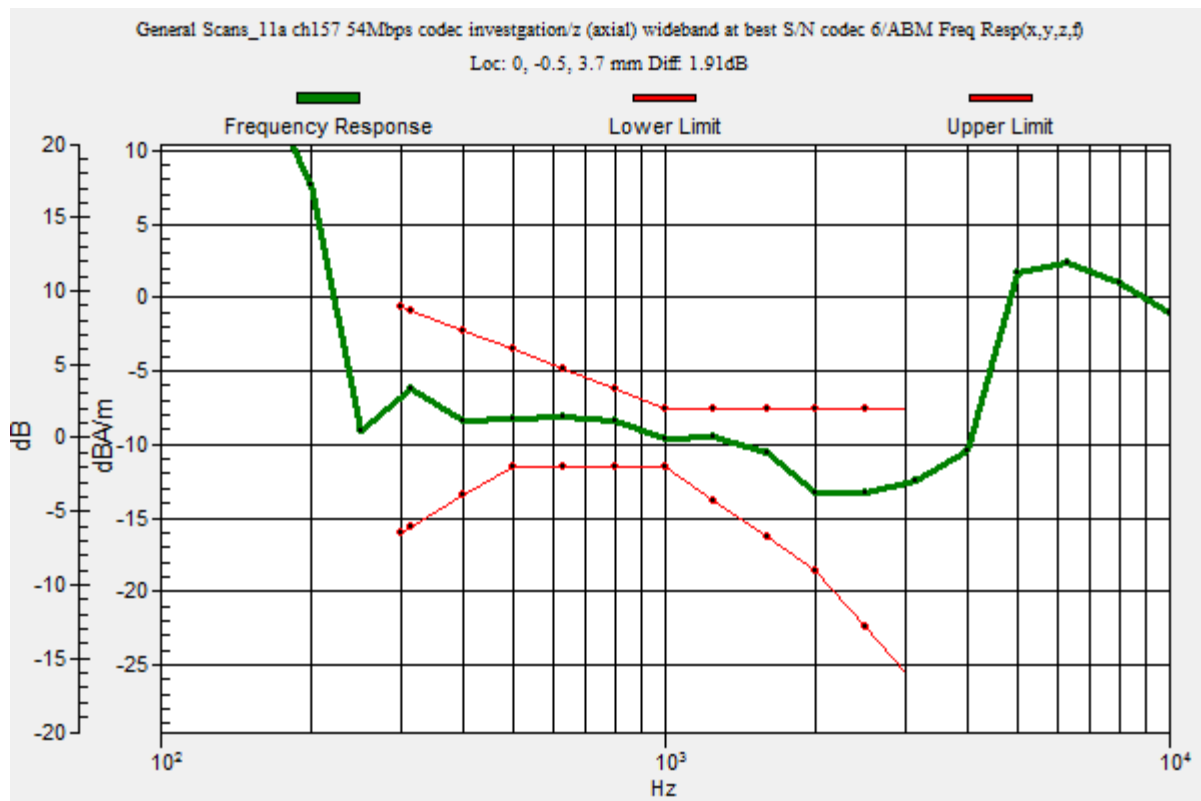
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.91 dB

BWC Factor = 10.80 dB

Location: 0, -0.5, 3.7 mm



OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch157 54Mbps codec6/z (axial)

4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.01 dB

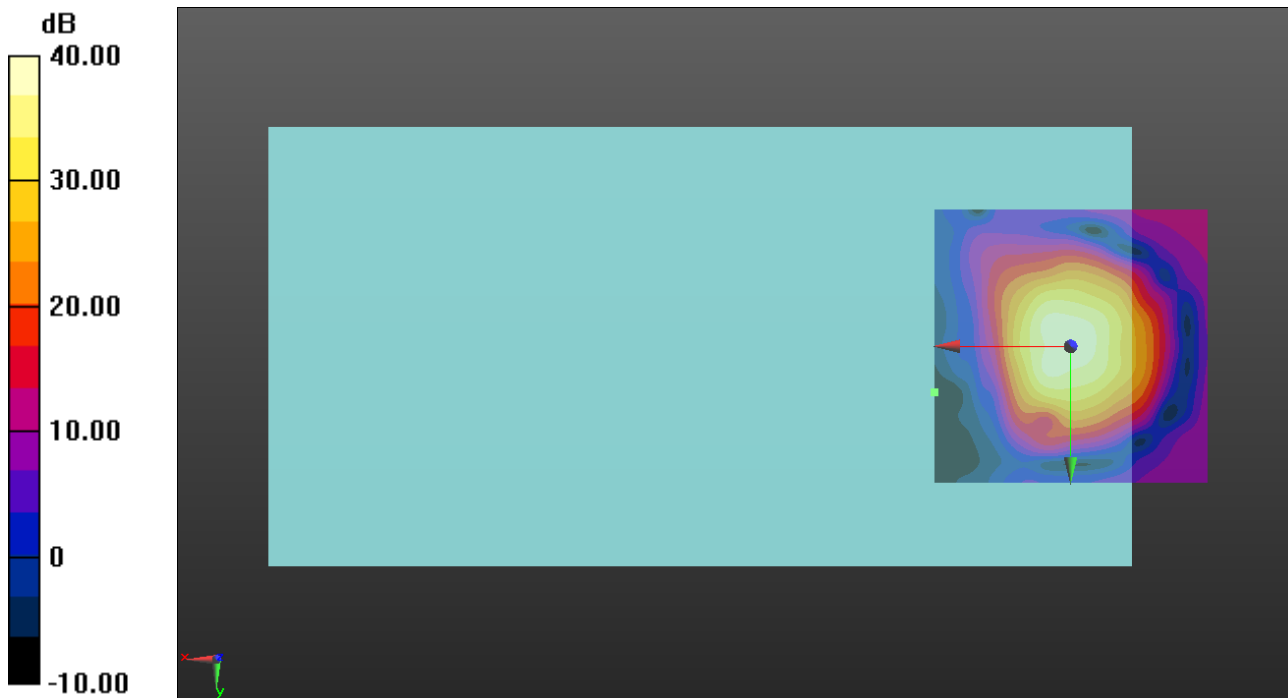
ABM1 comp = -3.75 dBA/m

BWC Factor = 0.16 dB

Location: 0, -0.4, 3.7 mm

ABM2 = -16.84 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

OTT_WiFi

Communication System: UID 0, IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5785 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3137; ; Calibrated: 2018-11-20
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1494; Calibrated: 2018-07-23
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/11a ch157 54Mbps codec6/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid:

dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav

Output Gain: 20.46

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.71 dB

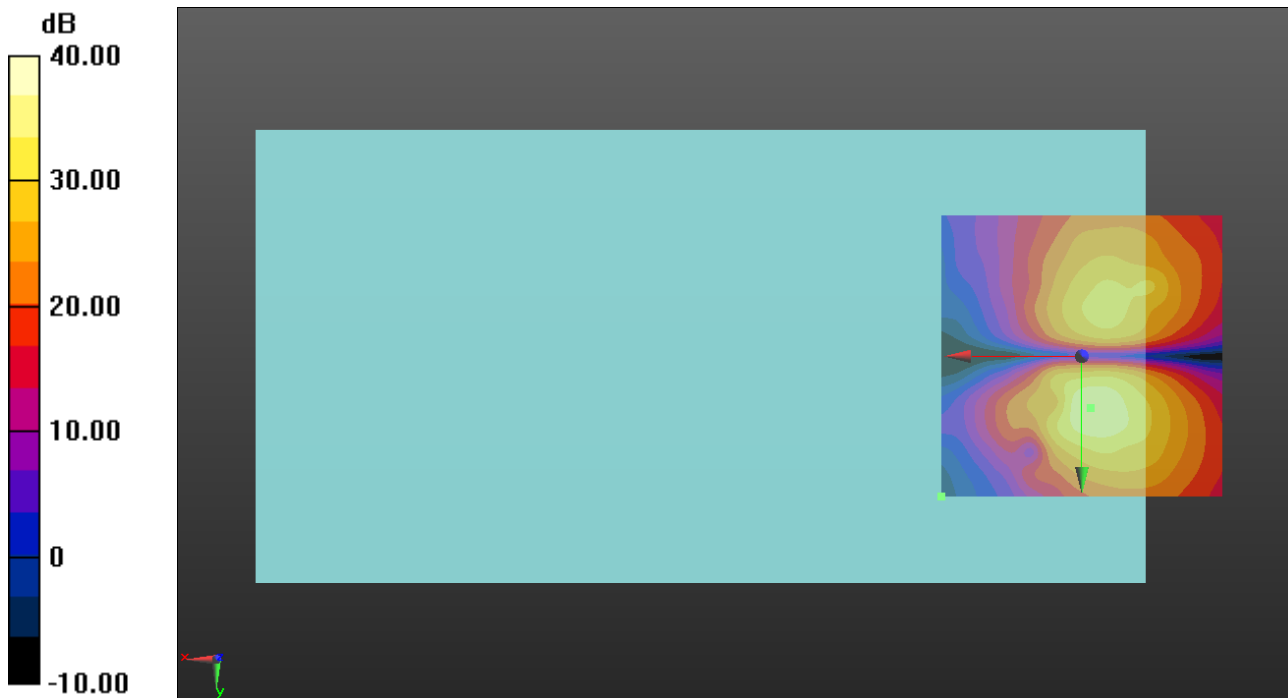
ABM1 comp = -12.85 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 9.2, 3.7 mm

ABM2 = -23.06 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB