

GSM 850

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.00018

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 850 Voice Ch. 190_ANT 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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

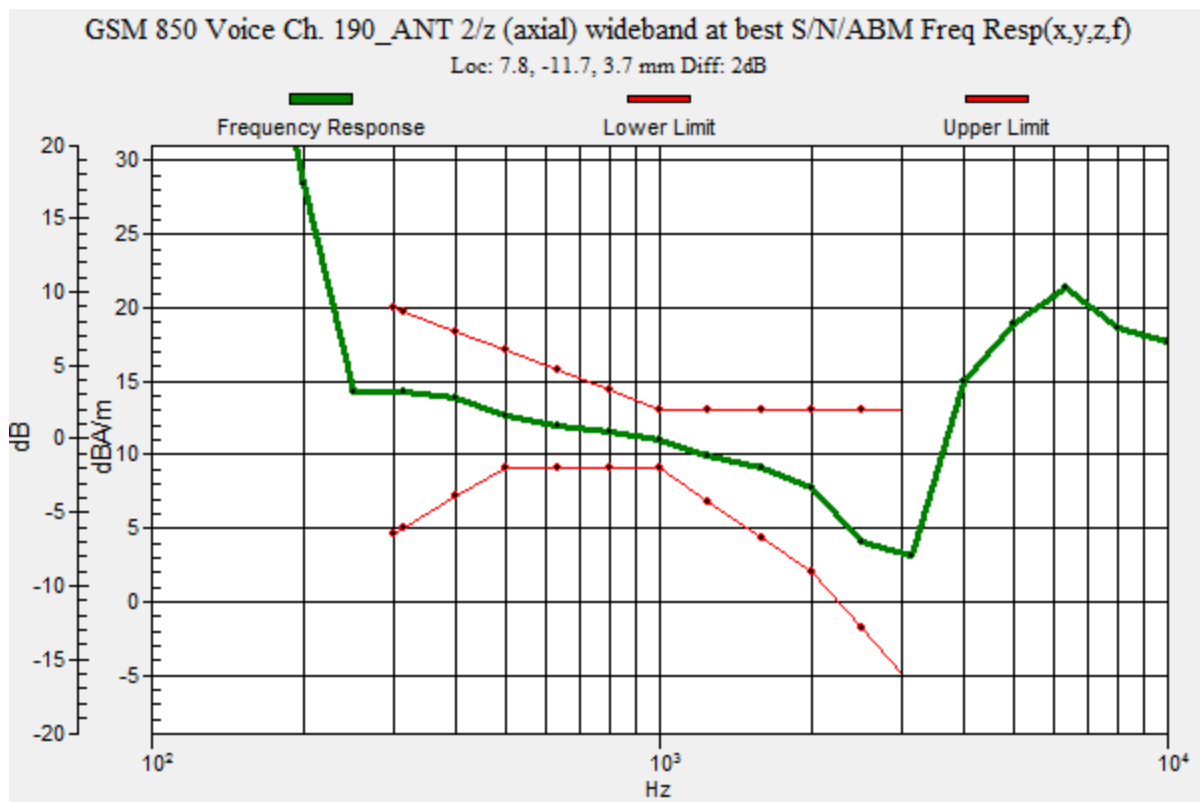
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 7.8, -11.7, 3.7 mm



GSM 850

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 850 Voice Ch. 190_ANT 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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 34.90 dB

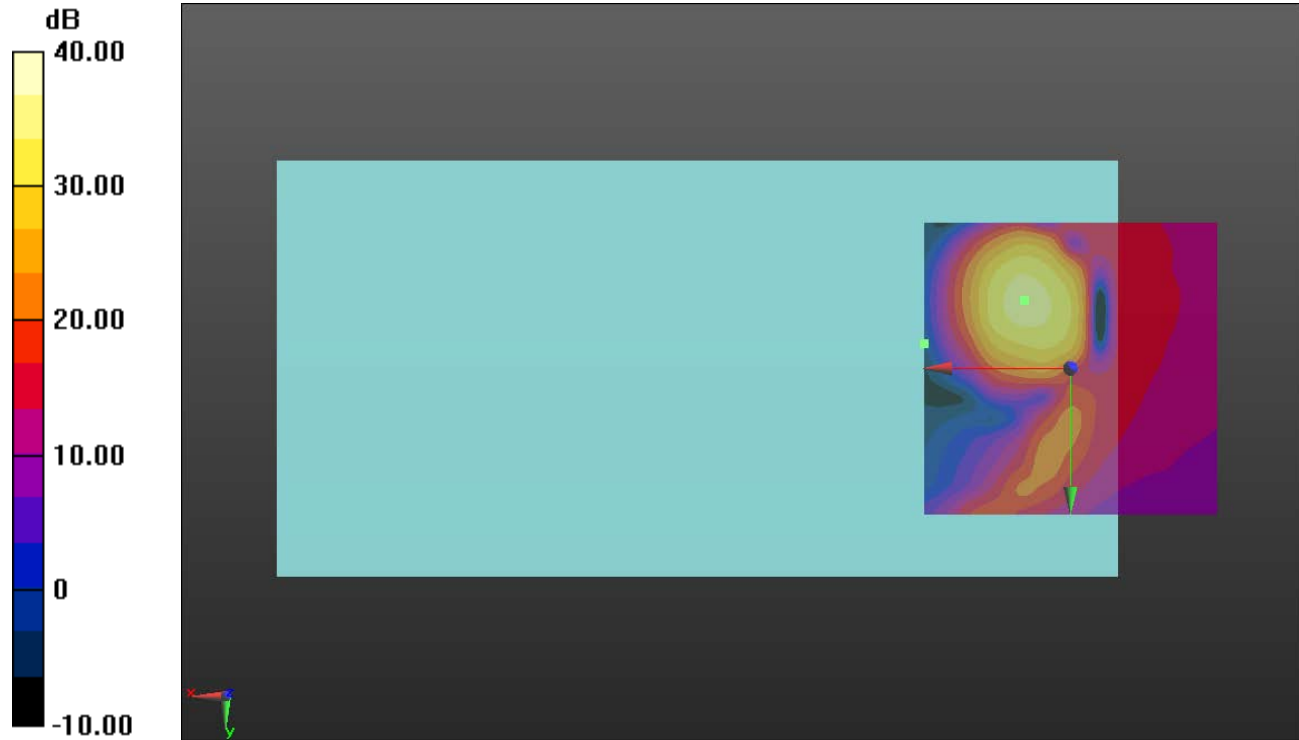
ABM1 comp = 9.88 dBA/m

BWC Factor = 0.16 dB

Location: 7.9, -11.7, 3.7 mm

ABM2 = -10.03 dBA/m

Location: 25, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

GSM 850

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 836.6 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 850 Voice Ch. 190_ANT 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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 34.42 dB

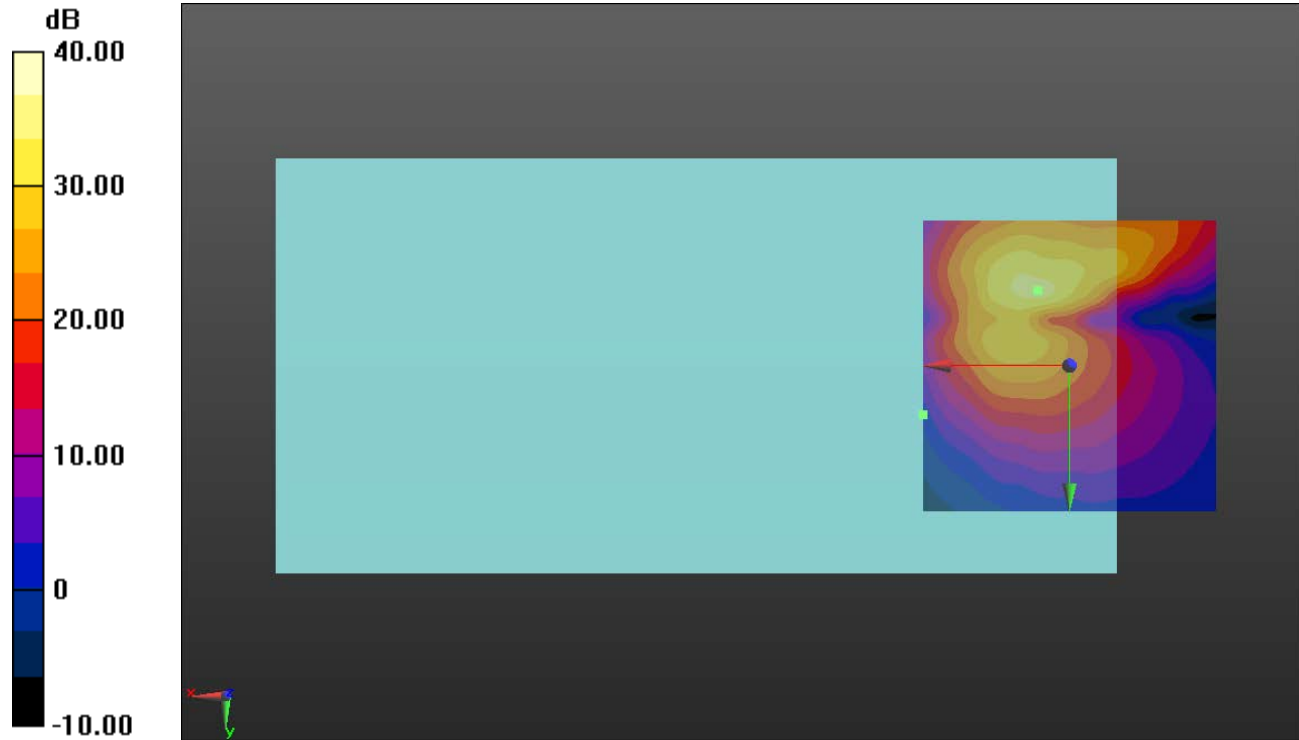
ABM1 comp = -5.71 dBA/m

BWC Factor = 0.16 dB

Location: 5.4, -12.9, 3.7 mm

ABM2 = -12.80 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

GSM 1900

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:8.00018

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 1900 Voice Ch. 661_ANT 3/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

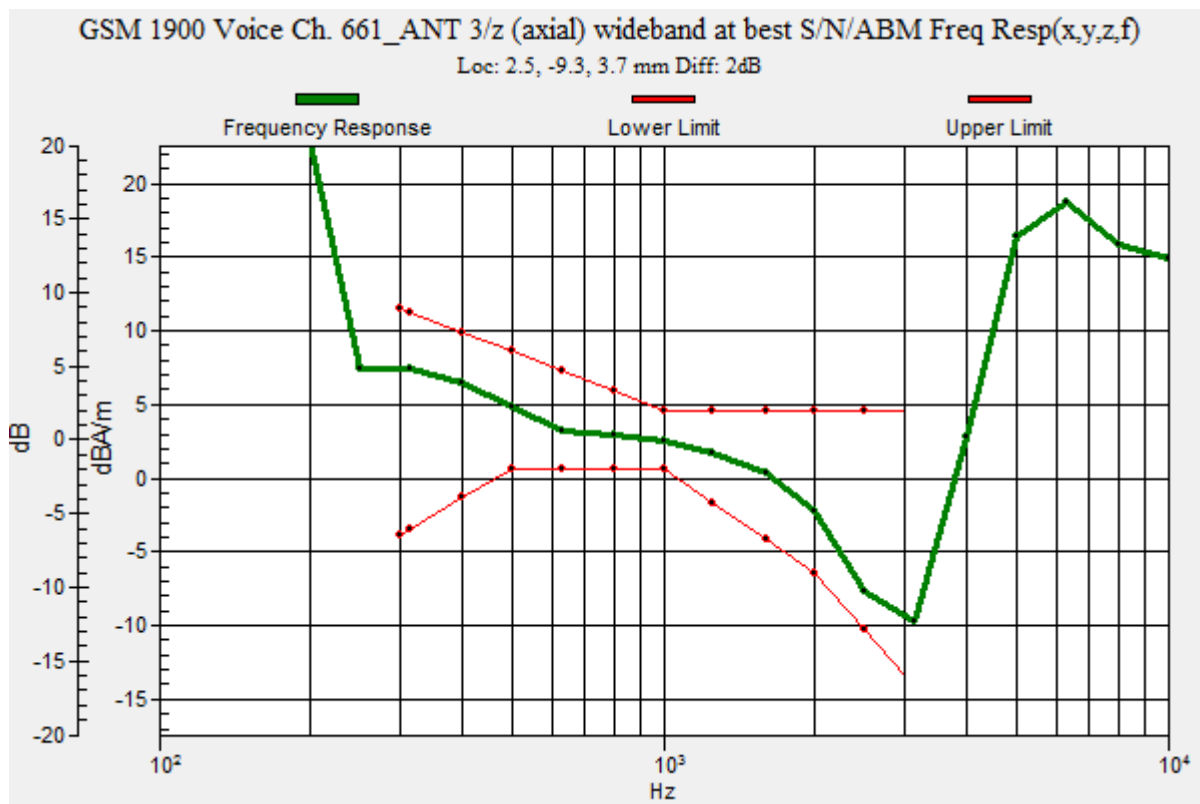
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 2.5, -9.3, 3.7 mm



GSM 1900

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 1900 Voice Ch. 661_ANT 3/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 30.29 dB

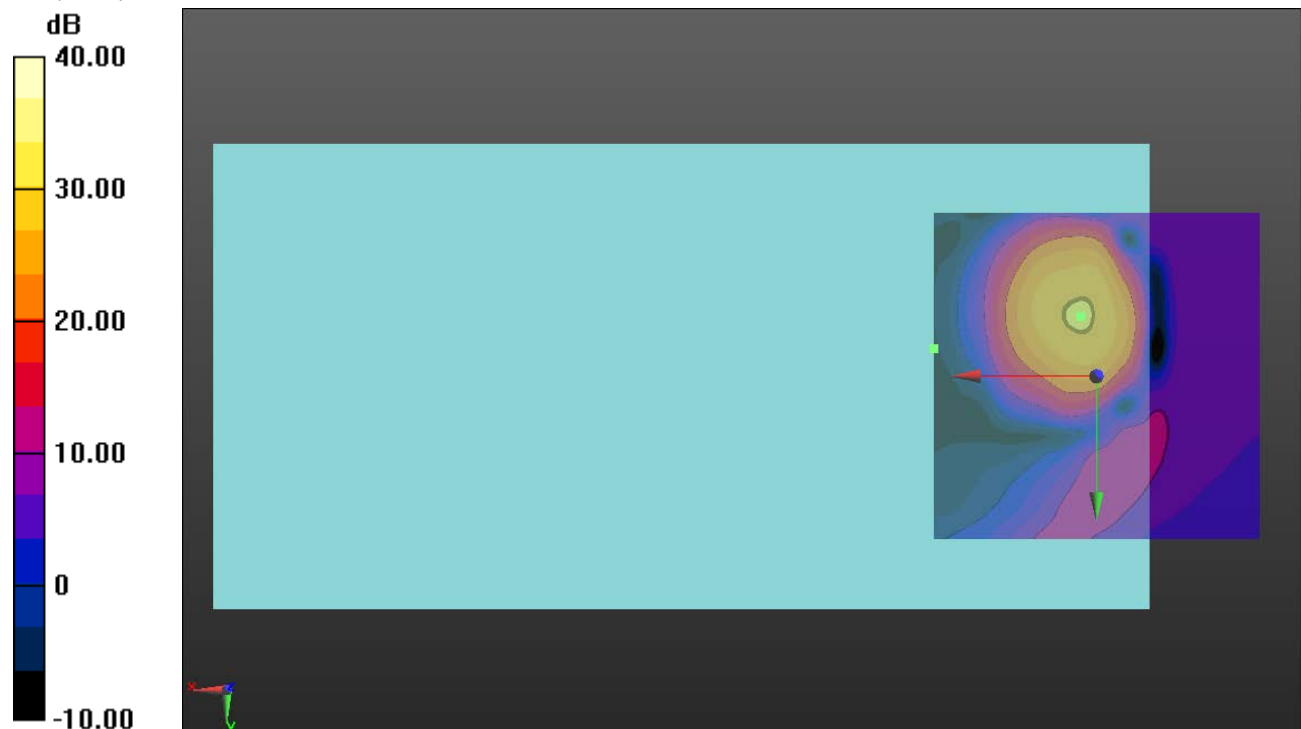
ABM1 comp = 1.04 dBA/m

BWC Factor = 0.16 dB

Location: 2.5, -9.2, 3.7 mm

ABM2 = -8.84 dBA/m

Location: 25, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

GSM 1900

Communication System: UID 0, @GPRS-FDD (TDMA, GMSK, 1 slot) (0); Frequency: 1880 MHz; Duty Cycle: 1:8.00018

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/GSM 1900 Voice Ch. 661_ANT 3/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 32.12 dB

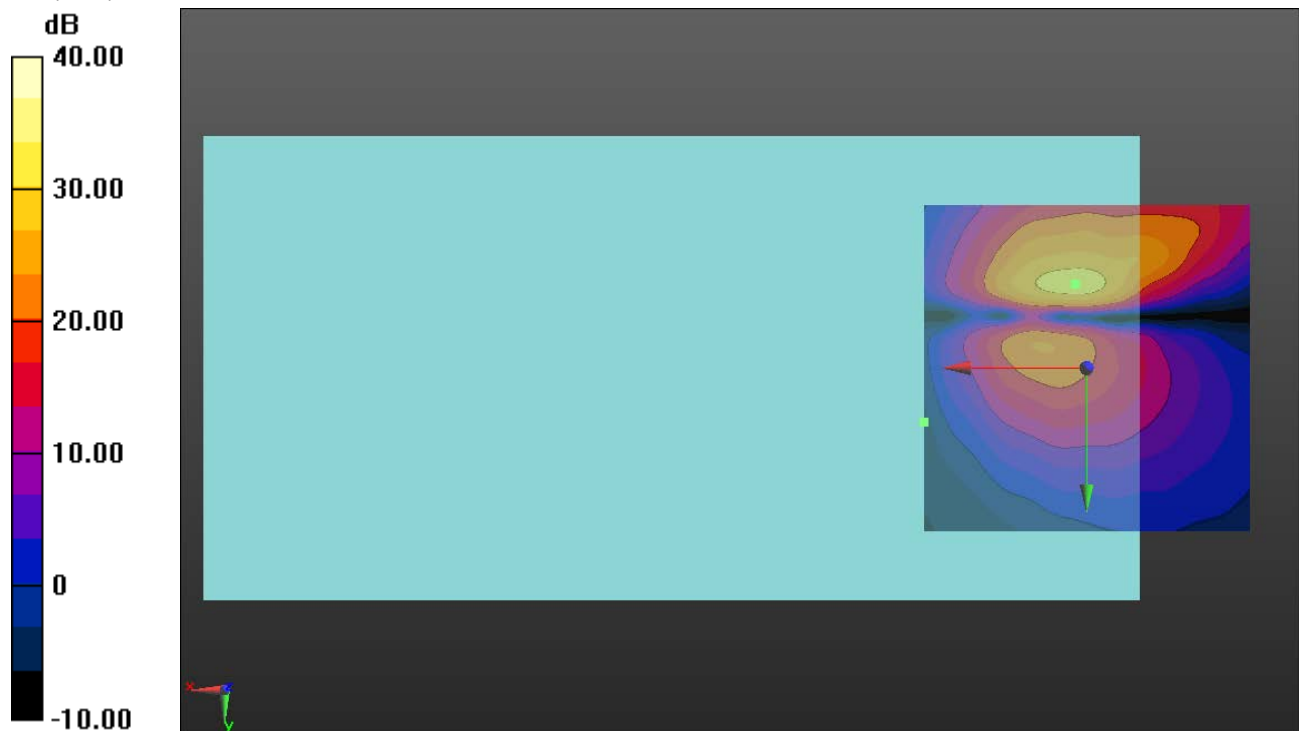
ABM1 comp = -8.38 dBA/m

BWC Factor = 0.16 dB

Location: 1.7, -12.9, 3.7 mm

ABM2 = -10.81 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA Band II

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band II Voice Ch. 9262 AMR-NB 4.75kbps_ANT 4/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

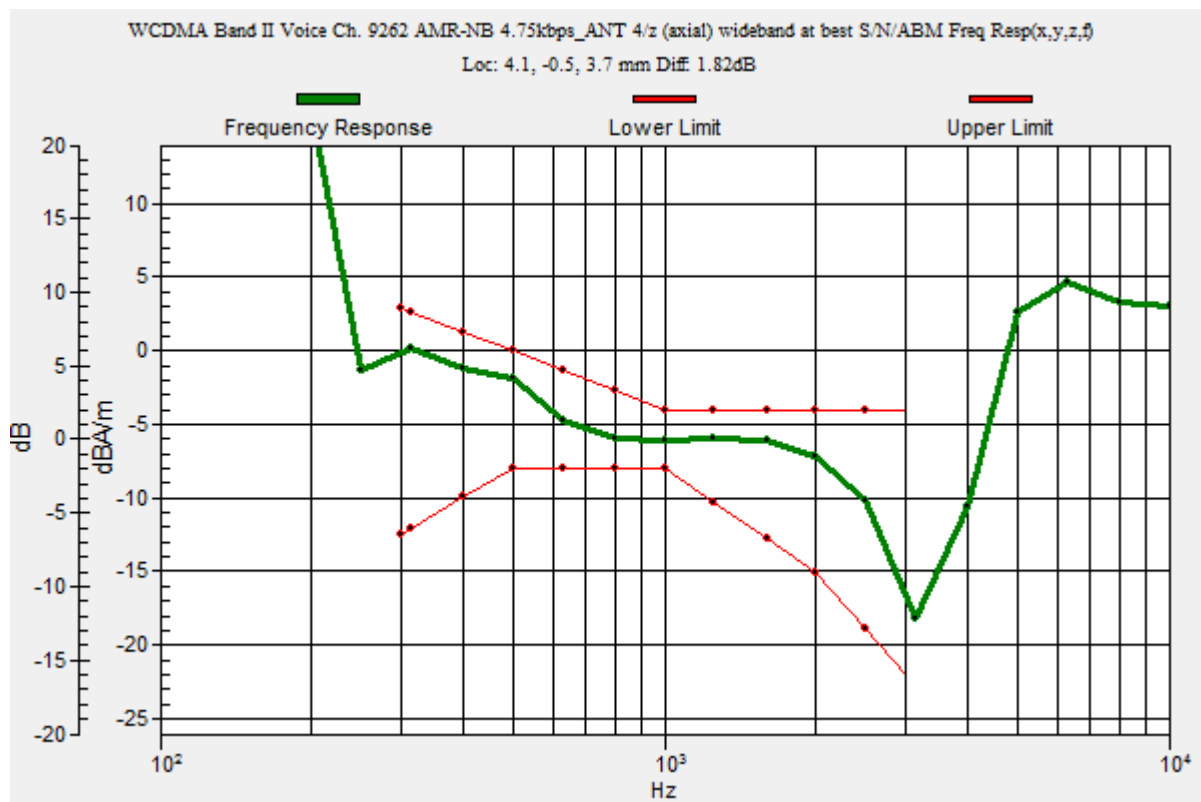
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.82 dB

BWC Factor = 10.80 dB

Location: 4.1, -0.5, 3.7 mm



WCDMA Band II

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band II Voice Ch. 9262 AMR-NB 4.75kbps_ANT 4/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.57 dB

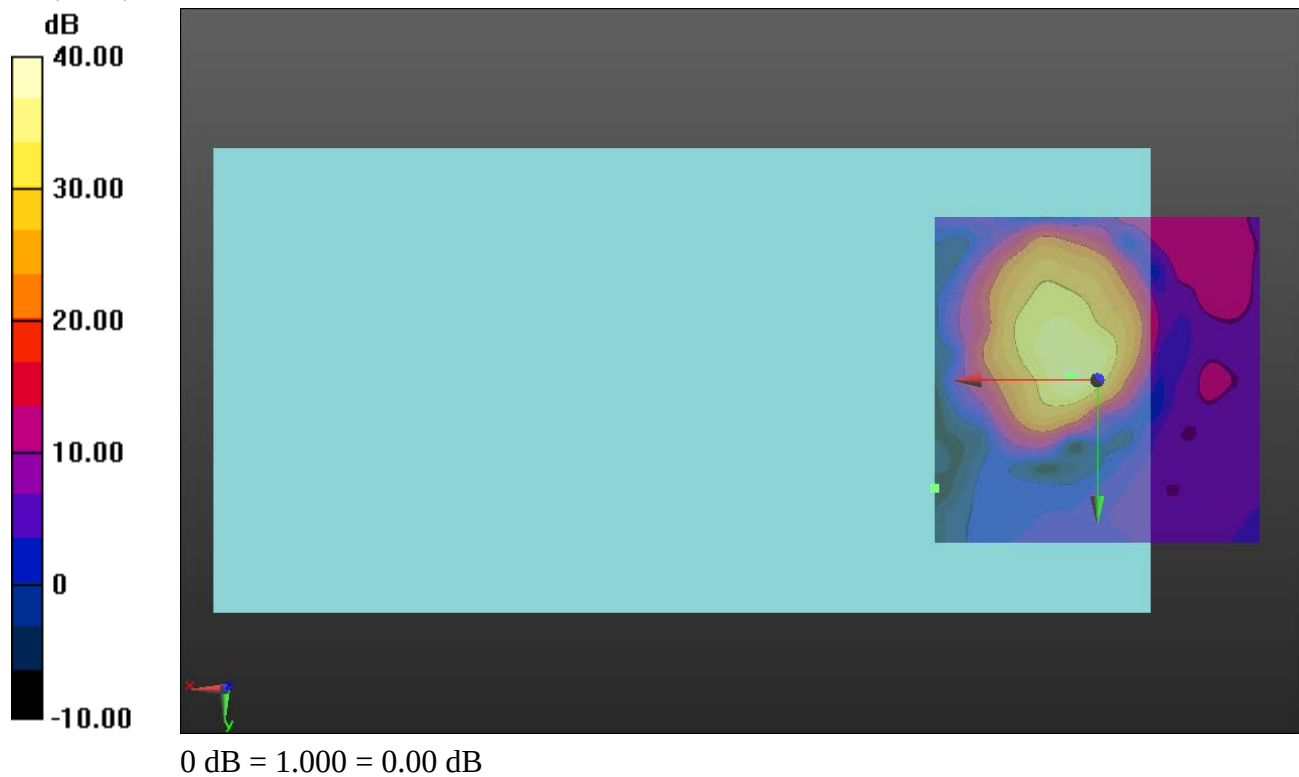
ABM1 comp = -6.30 dBA/m

BWC Factor = 0.16 dB

Location: 4.2, -0.4, 3.7 mm

ABM2 = -25.73 dBA/m

Location: 25, 16.7, 3.7 mm



WCDMA Band II

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1852.4 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band II Voice Ch. 9262
AMR-NB 4.75kbps_ANT 4/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 31.89 dB

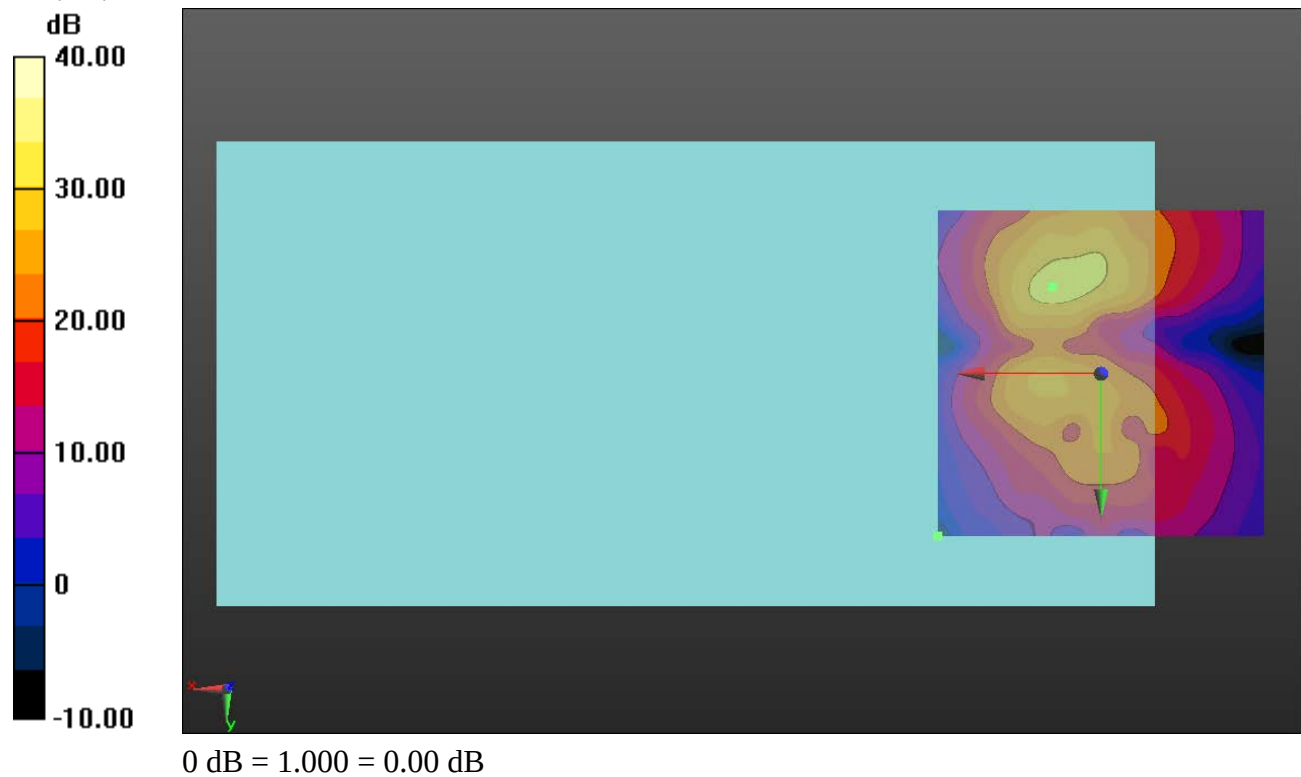
ABM1 comp = -11.11 dBA/m

BWC Factor = 0.16 dB

Location: 7.5, -13.3, 3.7 mm

ABM2 = -29.91 dBA/m

Location: 25, 25, 3.7 mm



WCDMA Band IV

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band IV Voice Ch. 1312 AMR-NB 4.75kbps_ANT 4/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

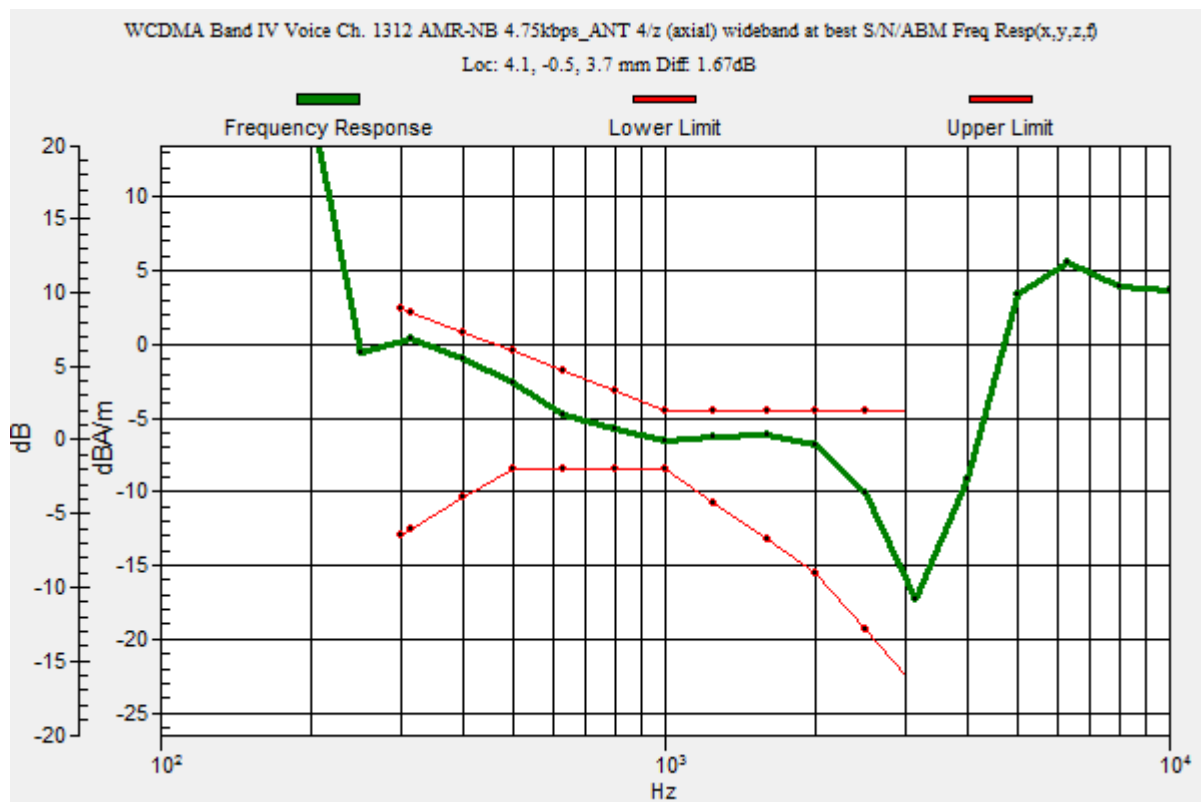
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.67 dB

BWC Factor = 10.80 dB

Location: 4.1, -0.5, 3.7 mm



WCDMA Band IV

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band IV Voice Ch. 1312 AMR-NB 4.75kbps_ANT 4/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.99 dB

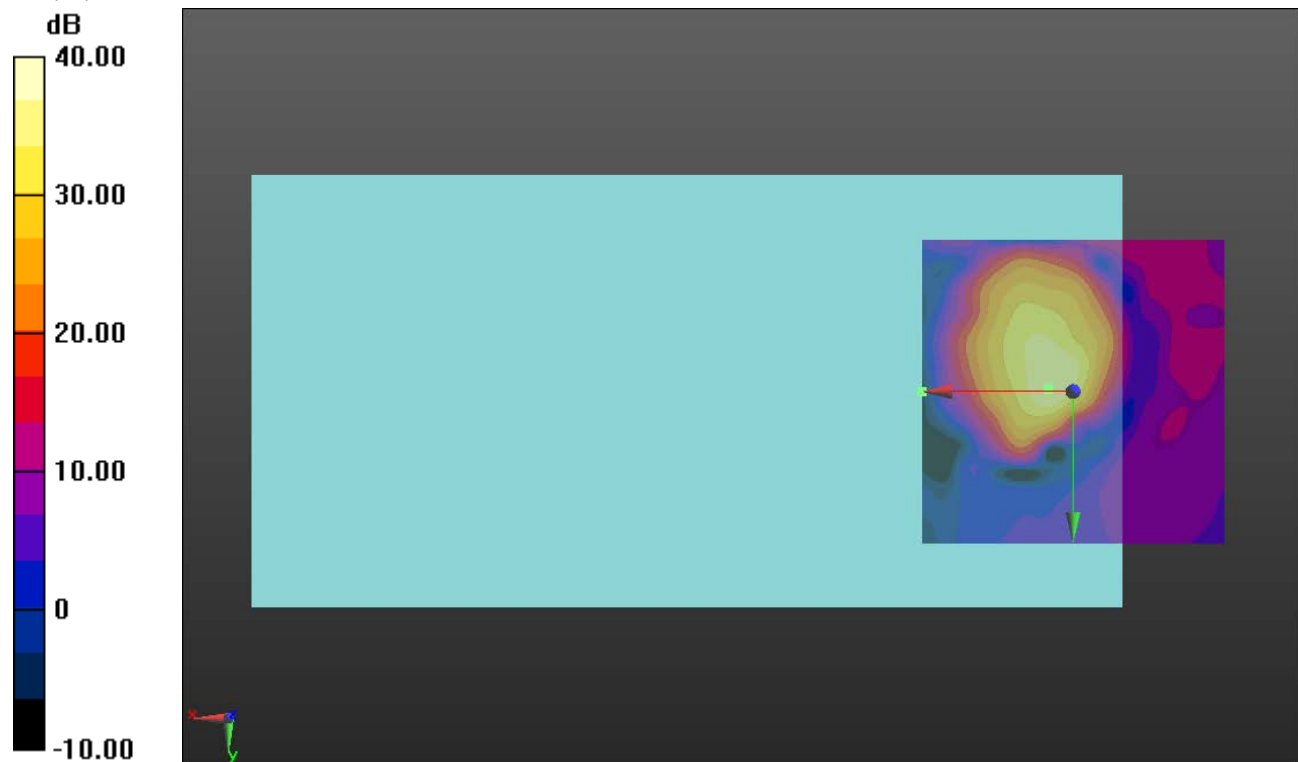
ABM1 comp = -6.38 dBA/m

BWC Factor = 0.16 dB

Location: 4.2, -0.4, 3.7 mm

ABM2 = -27.27 dBA/m

Location: 25, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

WCDMA Band IV

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 1712.4 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band IV Voice Ch. 1312
AMR-NB 4.75kbps_ANT 4/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 31.18 dB

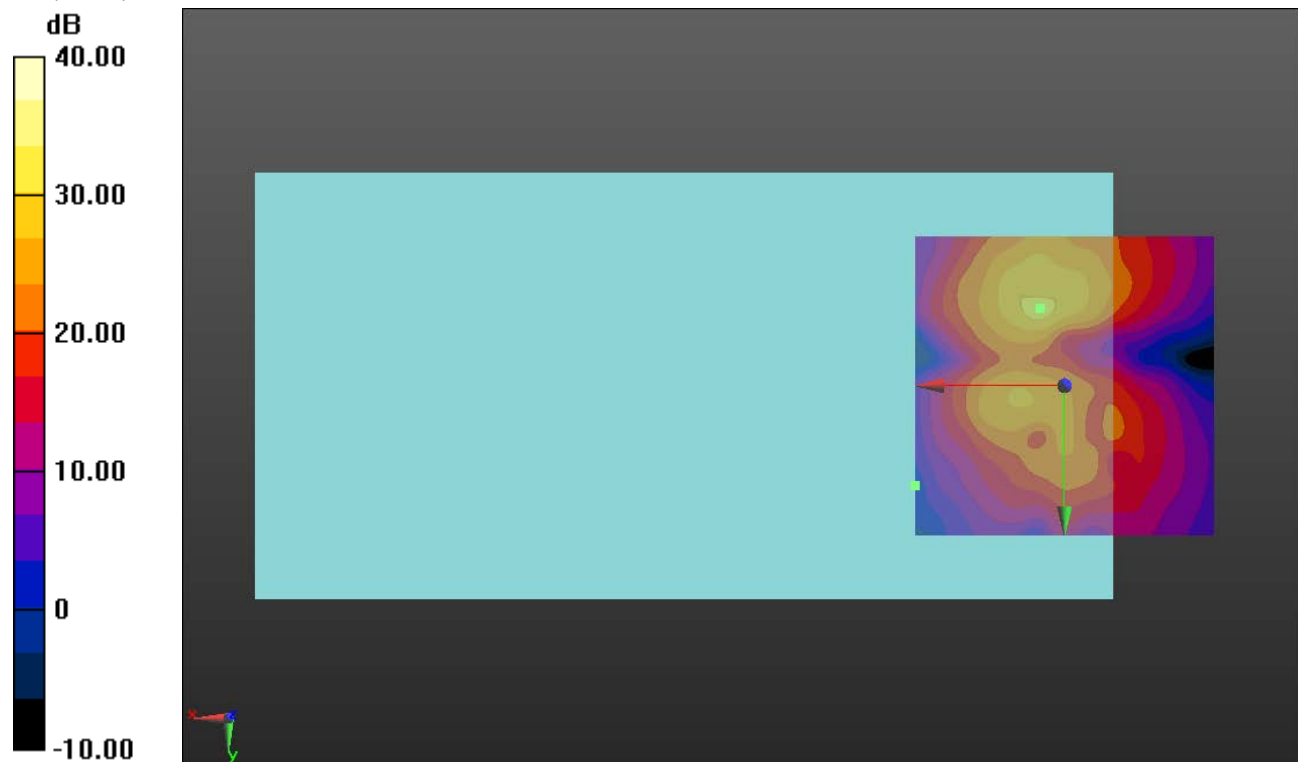
ABM1 comp = -11.92 dBA/m

BWC Factor = 0.16 dB

Location: 4.2, -12.9, 3.7 mm

ABM2 = -30.21 dBA/m

Location: 25, 16.7, 3.7 mm



WCDMA Band V

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 826.4 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V Voice Ch. 4132
AMR-NB 4.75kbps_ANT 1/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: 47.15

Measure Window Start: 250ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

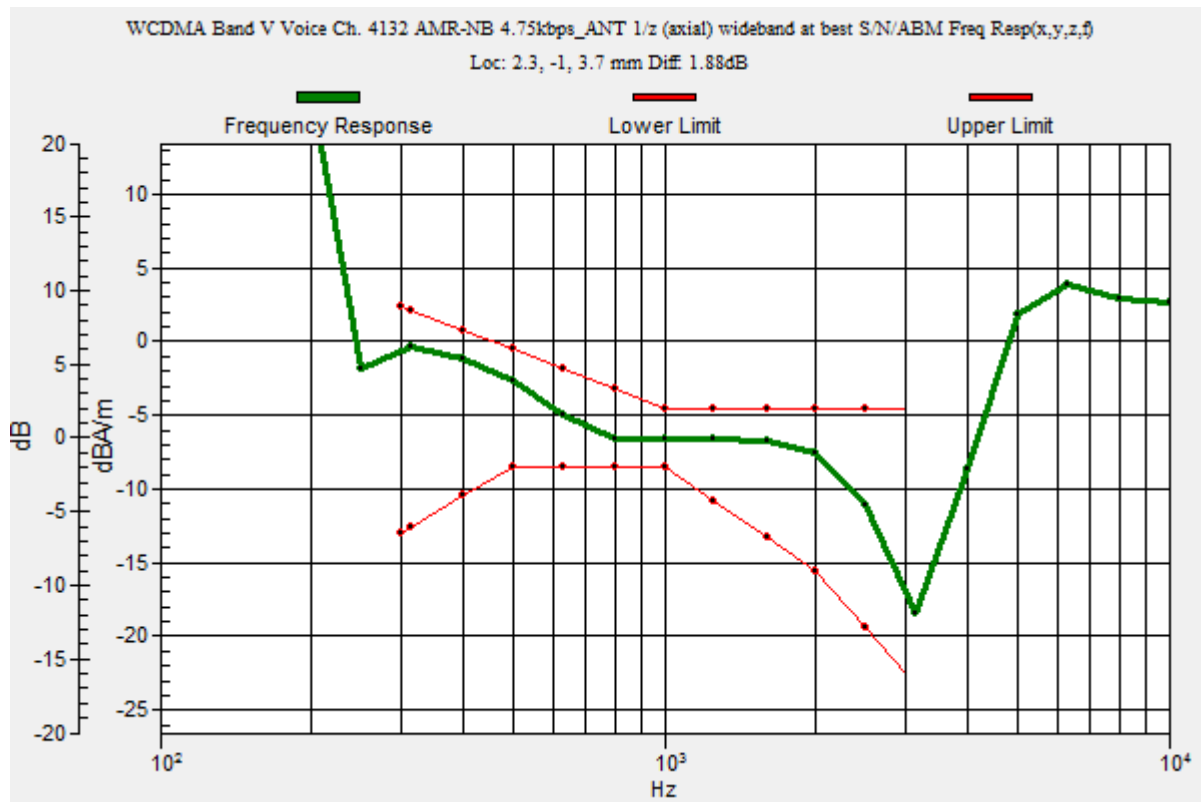
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.88 dB

BWC Factor = 10.80 dB

Location: 2.3, -1, 3.7 mm



WCDMA Band V

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V Voice Ch. 4132 AMR-NB 4.75kbps_ANT 1/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 34.70 dB

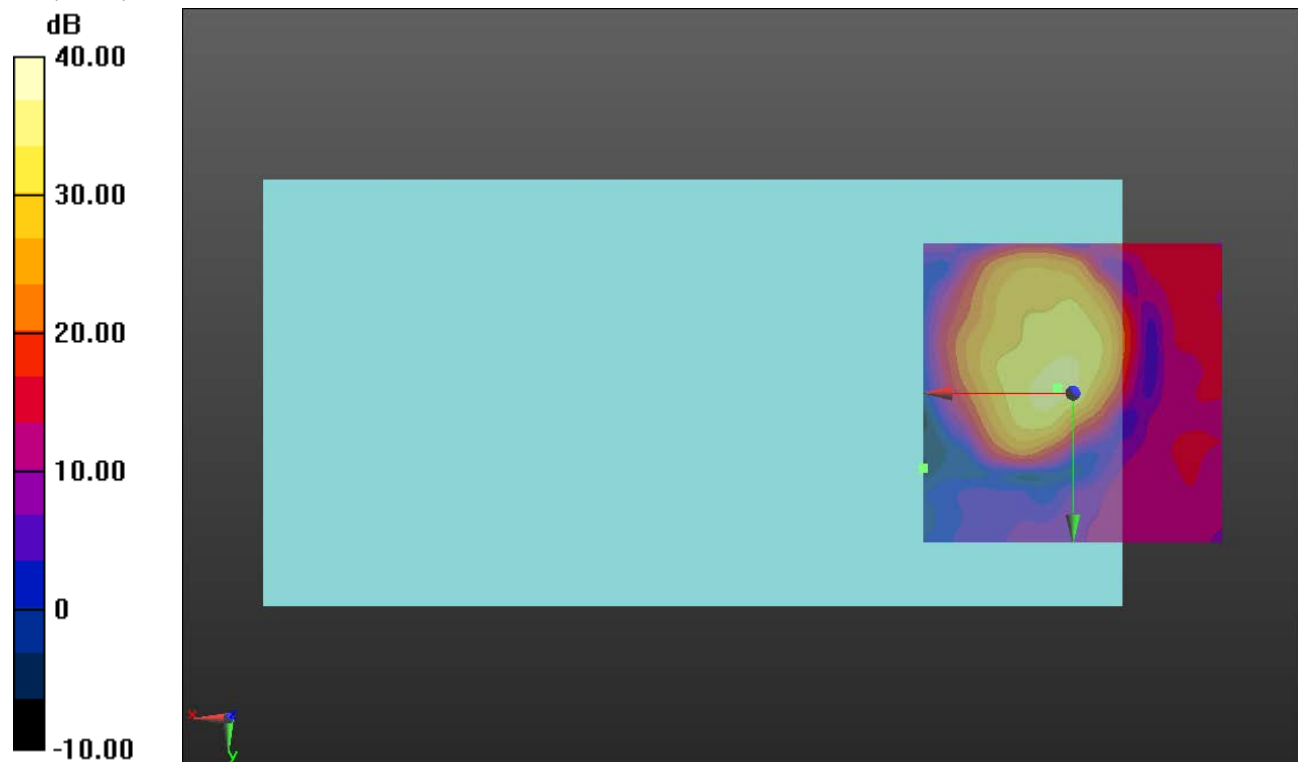
ABM1 comp = -4.45 dBA/m

BWC Factor = 0.16 dB

Location: 2.5, -0.8, 3.7 mm

ABM2 = -26.17 dBA/m

Location: 25, 12.5, 3.7 mm



WCDMA Band V

Communication System: UID 0, @UMTS-FDD (WCDMA) (0); Frequency: 826.4 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/WCDMA Band V Voice Ch. 4132 AMR-NB 4.75kbps_ANT 1/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 31.50 dB

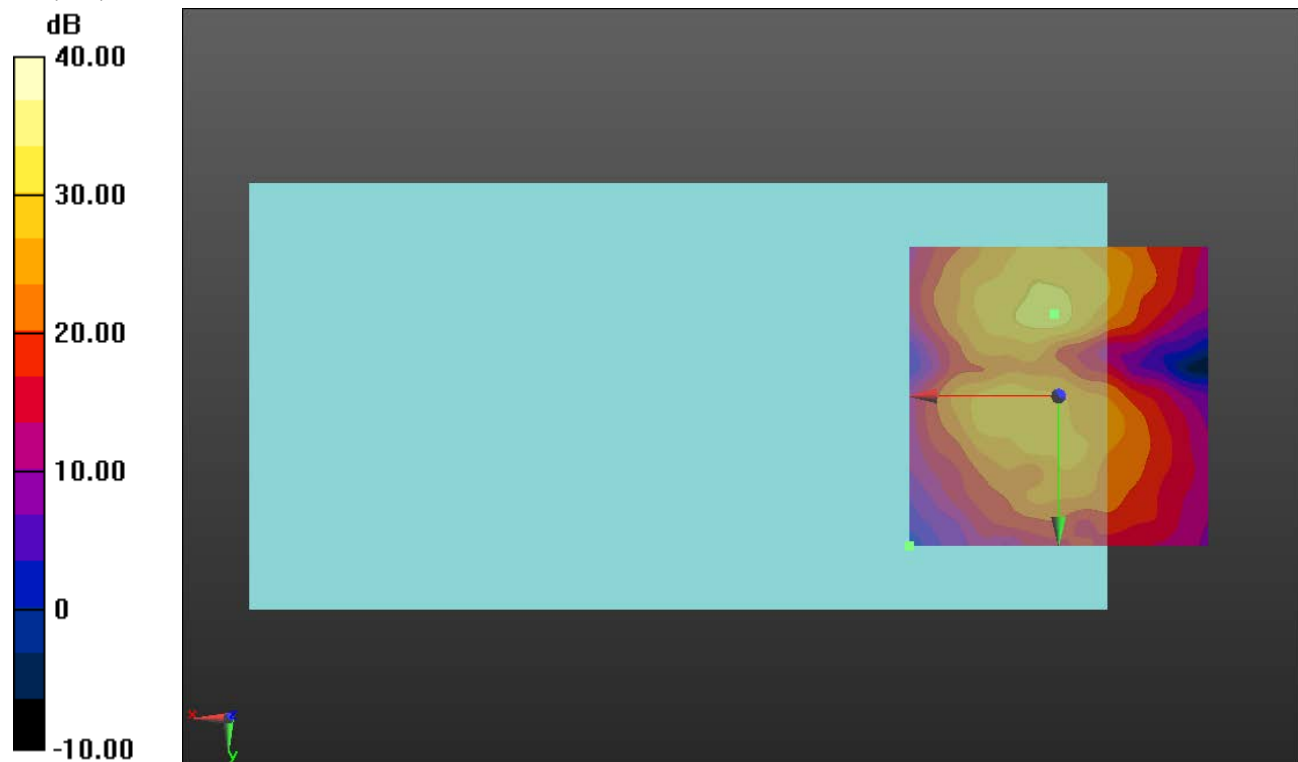
ABM1 comp = -10.91 dBA/m

BWC Factor = 0.16 dB

Location: 0.8, -13.8, 3.7 mm

ABM2 = -29.65 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

CDMA BC0

Communication System: UID 0, @CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC0 Voice Ch. 384 RC1/SO68 Full Fr_ANT 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: 37.45

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

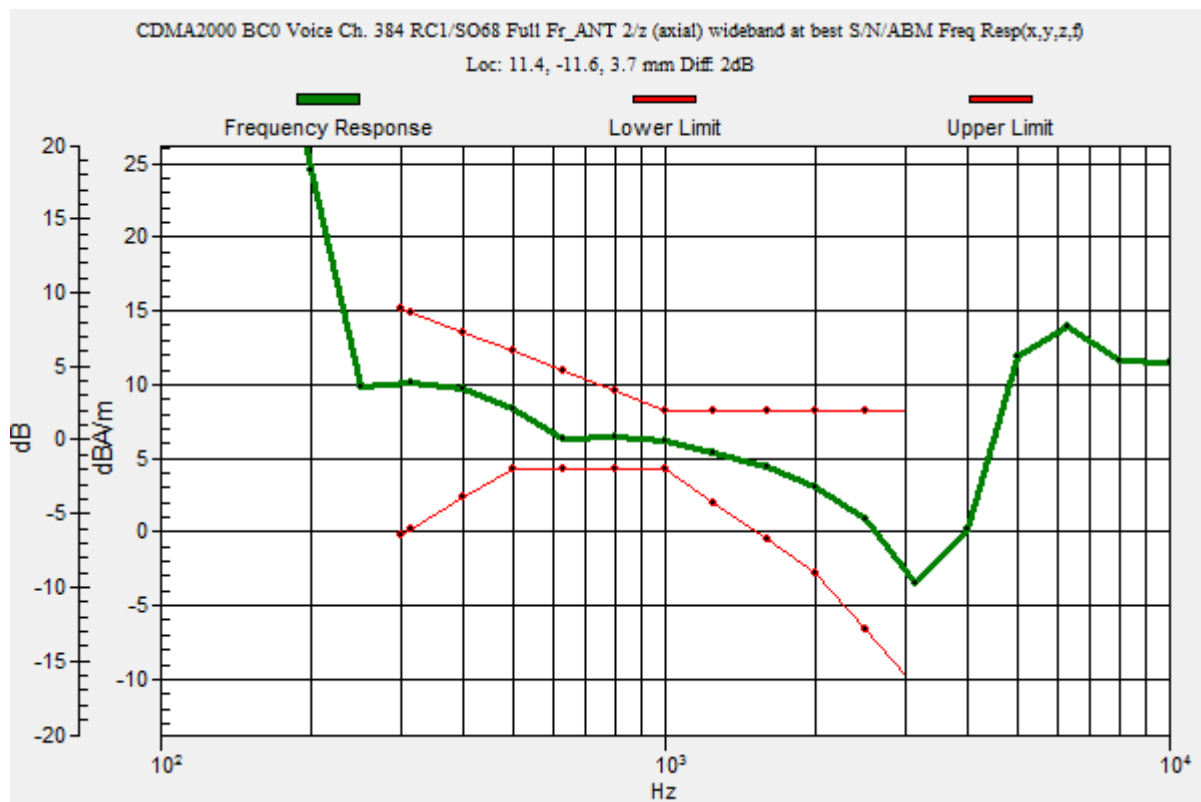
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 11.4, -11.6, 3.7 mm



CDMA BC0

Communication System: UID 0, @CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC0 Voice Ch. 384 RC1/SO68 Full Fr_ANT 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: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.25 dB

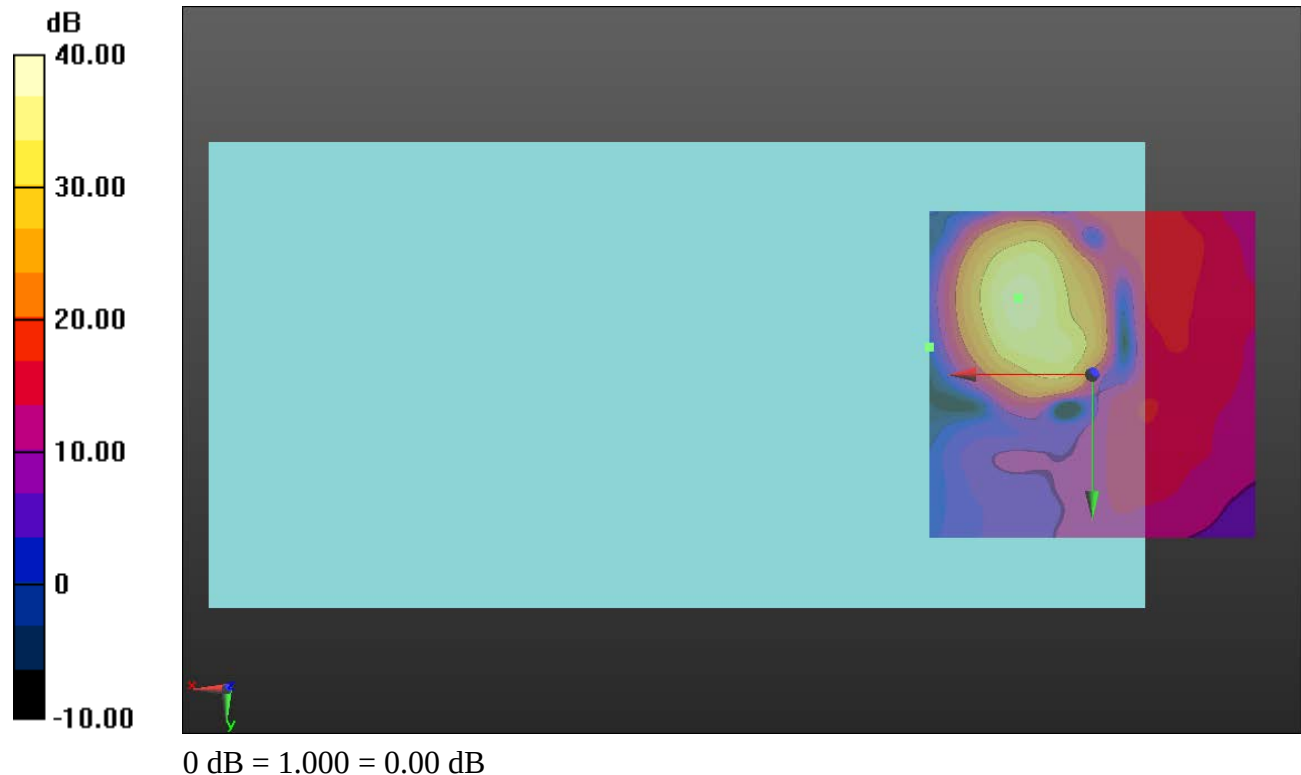
ABM1 comp = 3.73 dBA/m

BWC Factor = 0.16 dB

Location: 11.3, -11.7, 3.7 mm

ABM2 = -25.75 dBA/m

Location: 25, -4.2, 3.7 mm



CDMA BC0

Communication System: UID 0, @CDMA2000 (0); Frequency: 836.52 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC0 Voice Ch. 384 RC1/SO68 Full Fr_ANT 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: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.87 dB

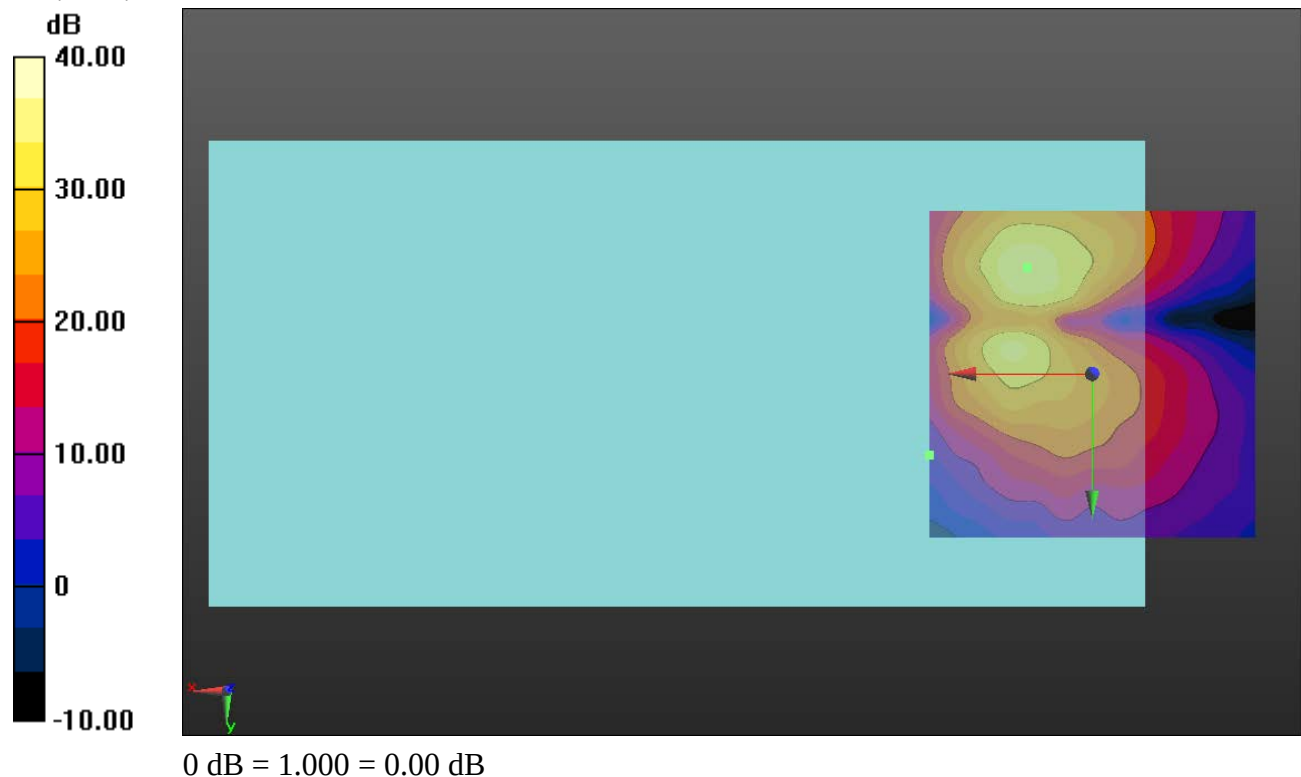
ABM1 comp = -4.53 dBA/m

BWC Factor = 0.16 dB

Location: 10, -16.3, 3.7 mm

ABM2 = -28.73 dBA/m

Location: 25, 12.5, 3.7 mm



CDMA BC1

Communication System: UID 0, @CDMA2000 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC1 Voice Ch. 600 RC1/SO68 Full Fr_ANT 4/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: 37.45

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

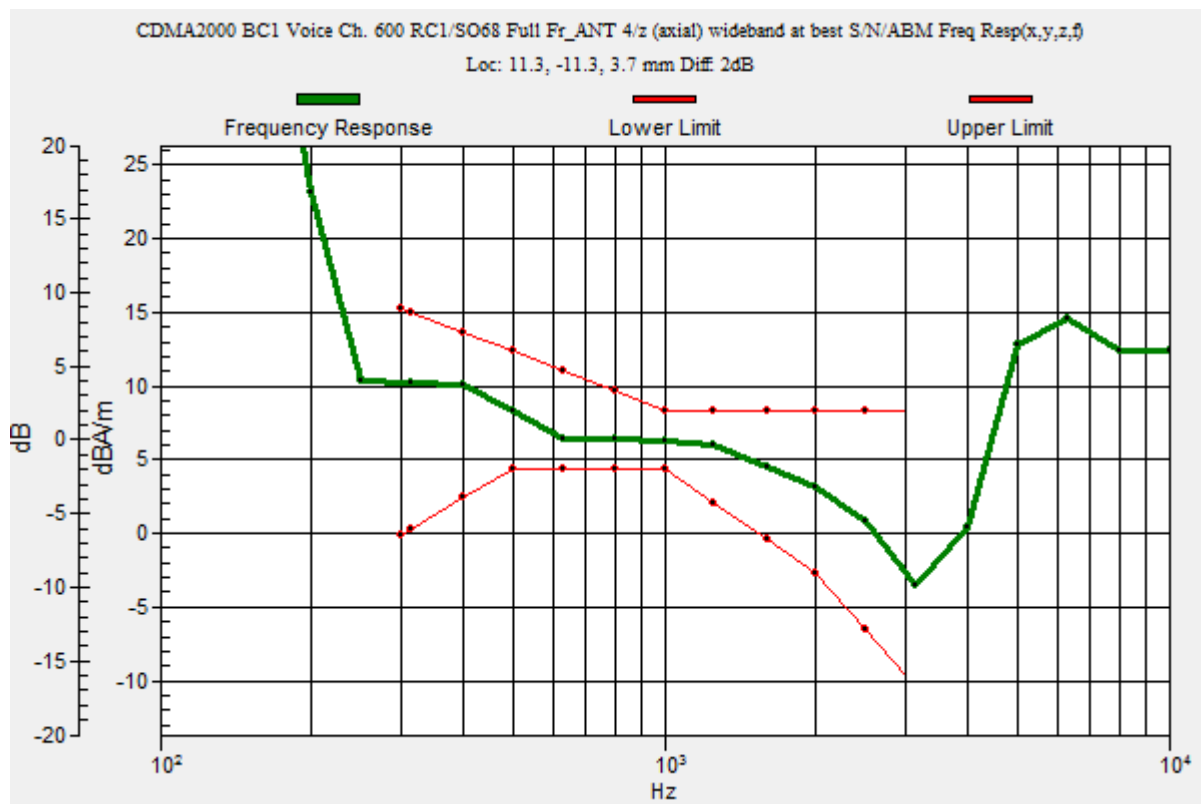
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 11.3, -11.3, 3.7 mm



CDMA BC1

Communication System: UID 0, @CDMA2000 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC1 Voice Ch. 600 RC1/SO68 Full Fr_ANT 4/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: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 37.29 dB

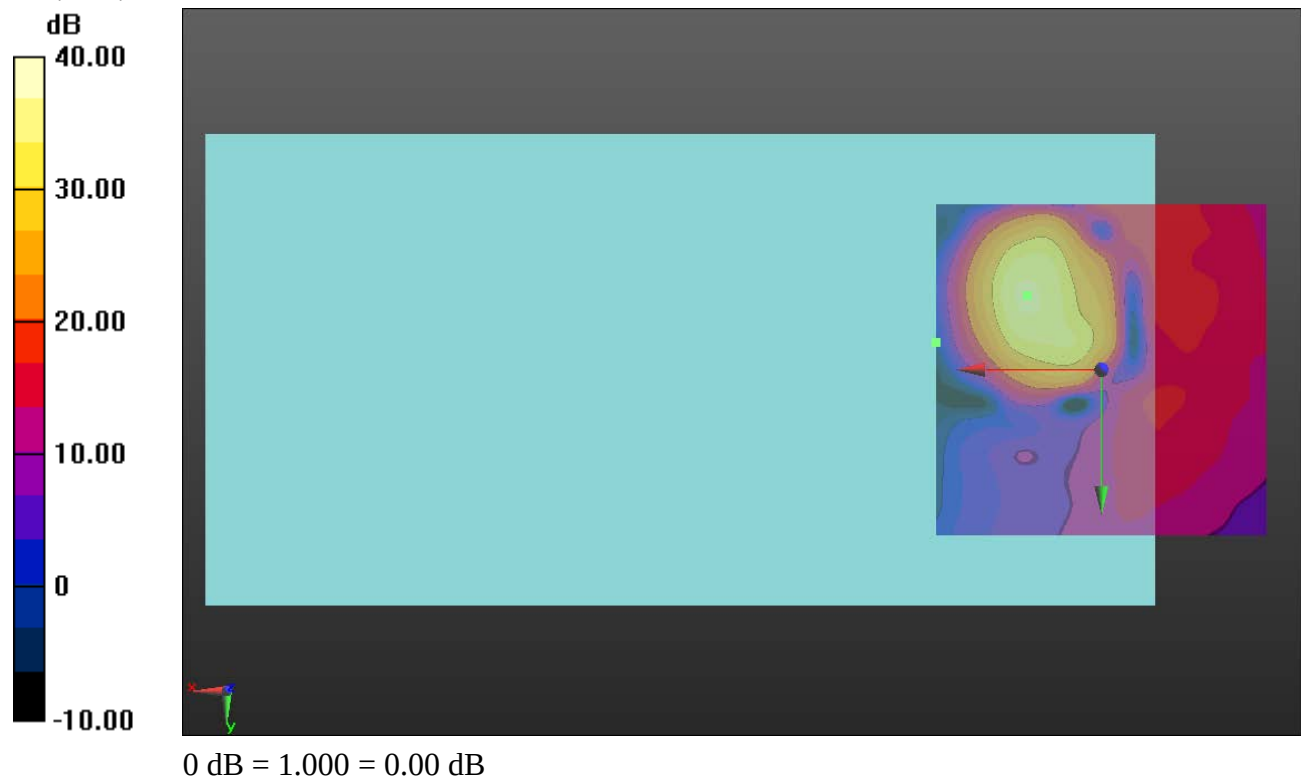
ABM1 comp = 3.90 dBA/m

BWC Factor = 0.16 dB

Location: 11.3, -11.3, 3.7 mm

ABM2 = -23.83 dBA/m

Location: 25, -4.2, 3.7 mm



CDMA BC1

Communication System: UID 0, @CDMA2000 (0); Frequency: 1880 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC1 Voice Ch. 600 RC1/SO68 Full Fr_ANT 4/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: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 36.27 dB

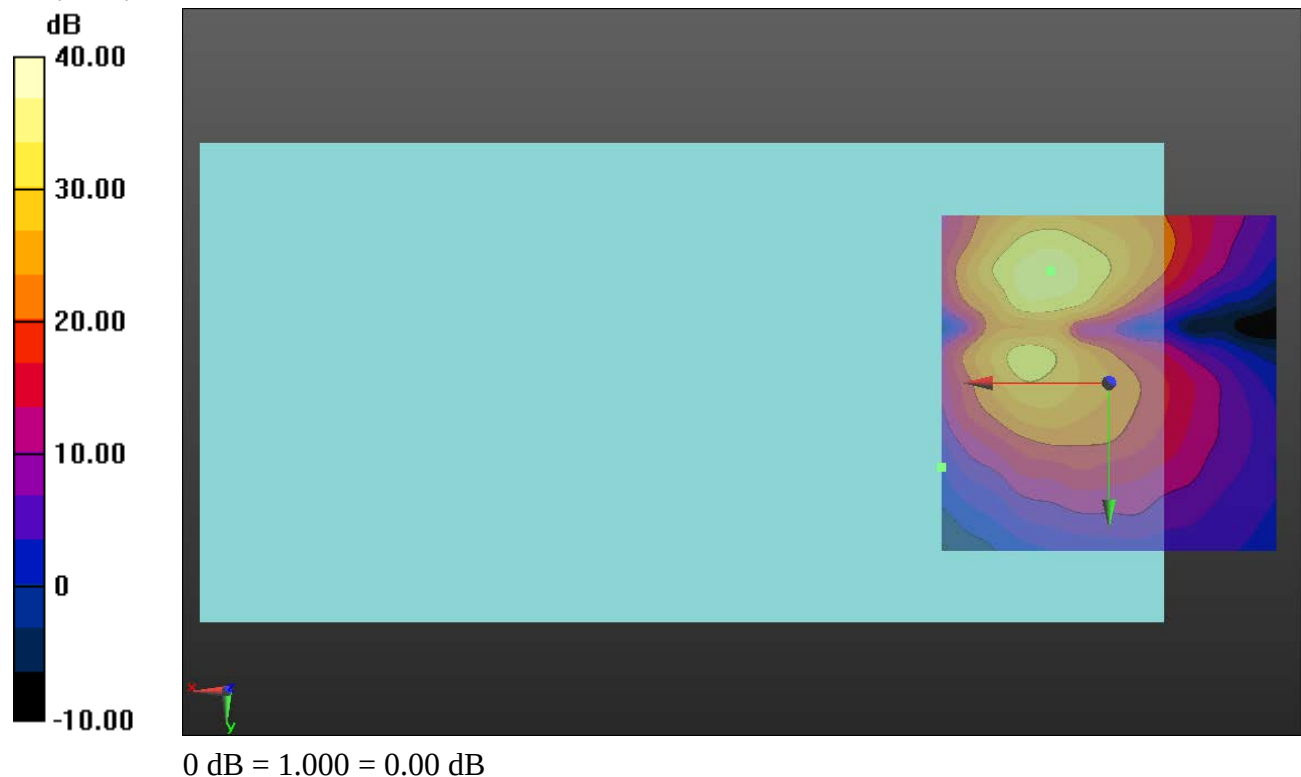
ABM1 comp = -5.22 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -16.7, 3.7 mm

ABM2 = -26.28 dBA/m

Location: 25, 12.5, 3.7 mm



CDMA BC10

Communication System: UID 0, @CDMA2000 (0); Frequency: 820 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC10 Voice Ch. 560 RC1/SO68 Full Fr_ANT 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: 37.45

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

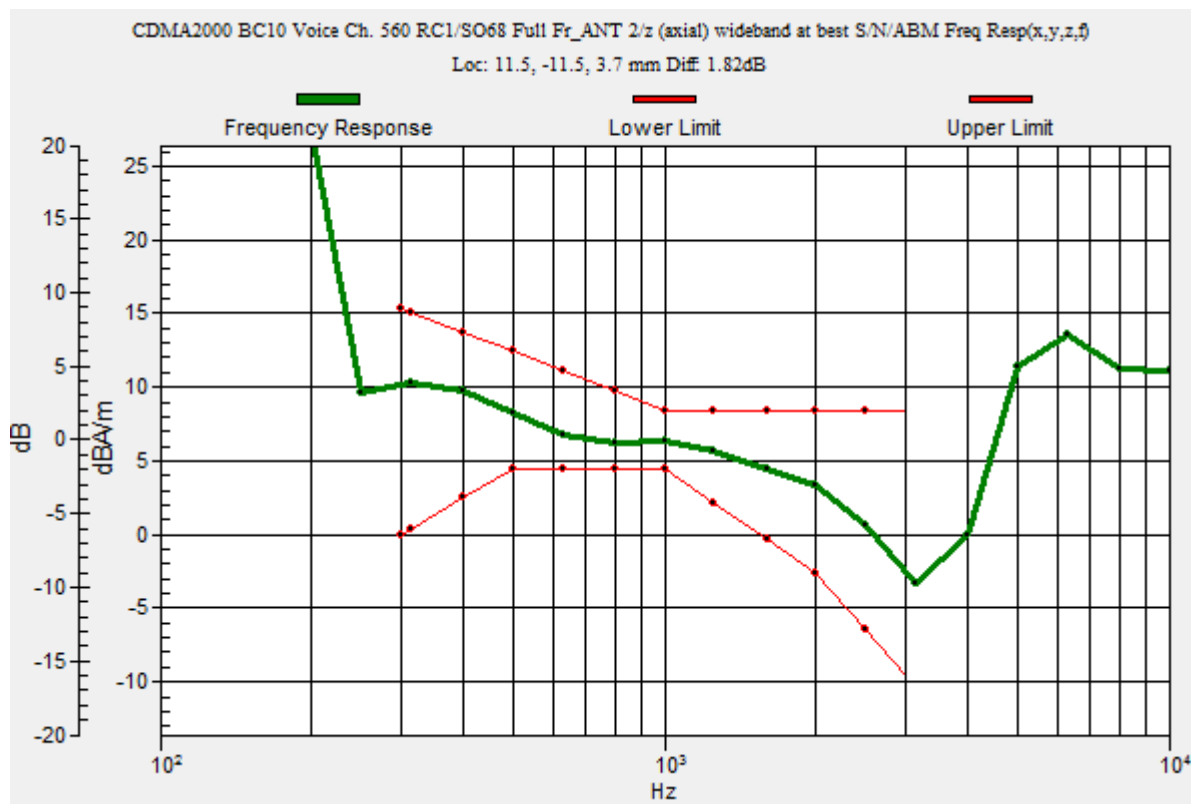
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.82 dB

BWC Factor = 10.80 dB

Location: 11.5, -11.5, 3.7 mm



CDMA BC10

Communication System: UID 0, @CDMA2000 (0); Frequency: 820 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC10 Voice Ch. 560 RC1/SO68 Full Fr_ANT 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: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.10 dB

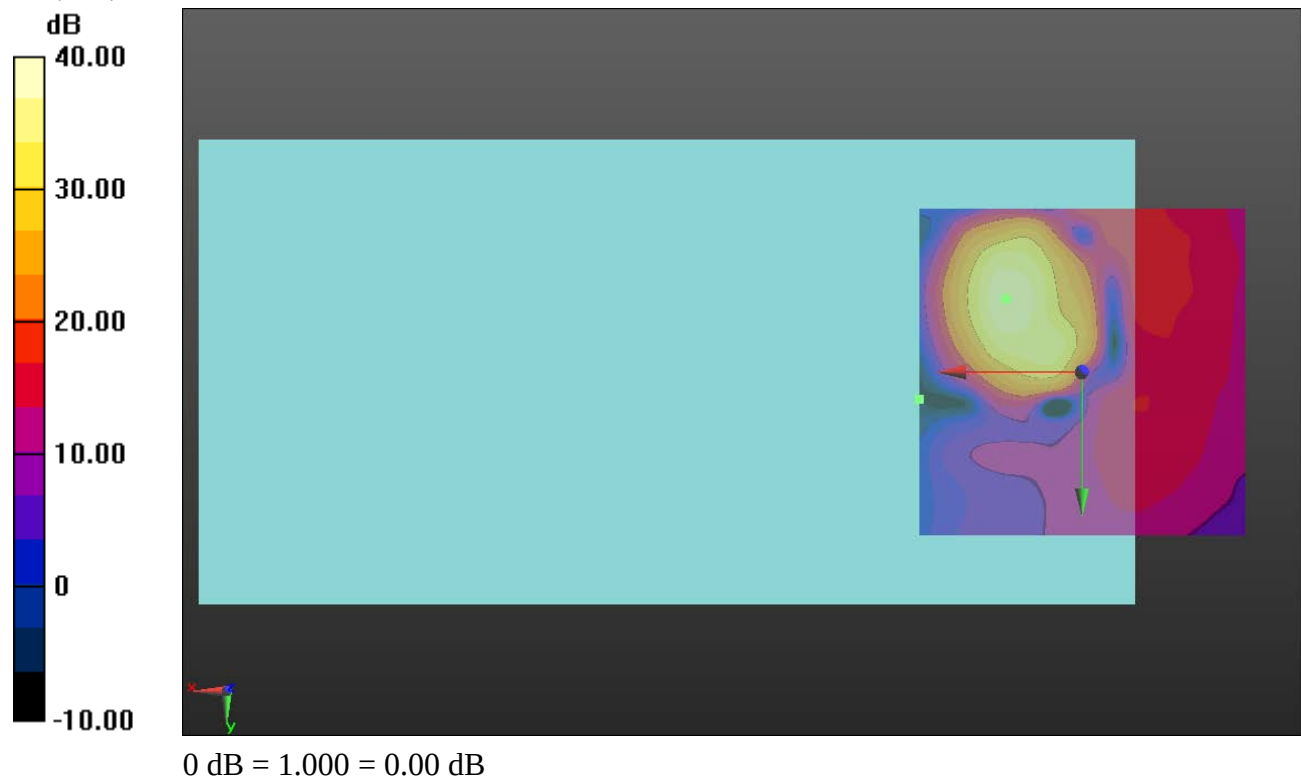
ABM1 comp = 4.17 dBA/m

BWC Factor = 0.16 dB

Location: 11.7, -11.3, 3.7 mm

ABM2 = -26.78 dBA/m

Location: 25, 4.2, 3.7 mm



CDMA BC10

Communication System: UID 0, @CDMA2000 (0); Frequency: 820 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/CDMA2000 BC10 Voice Ch. 560 RC1/SO68 Full Fr_ANT 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: 19.1

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.81 dB

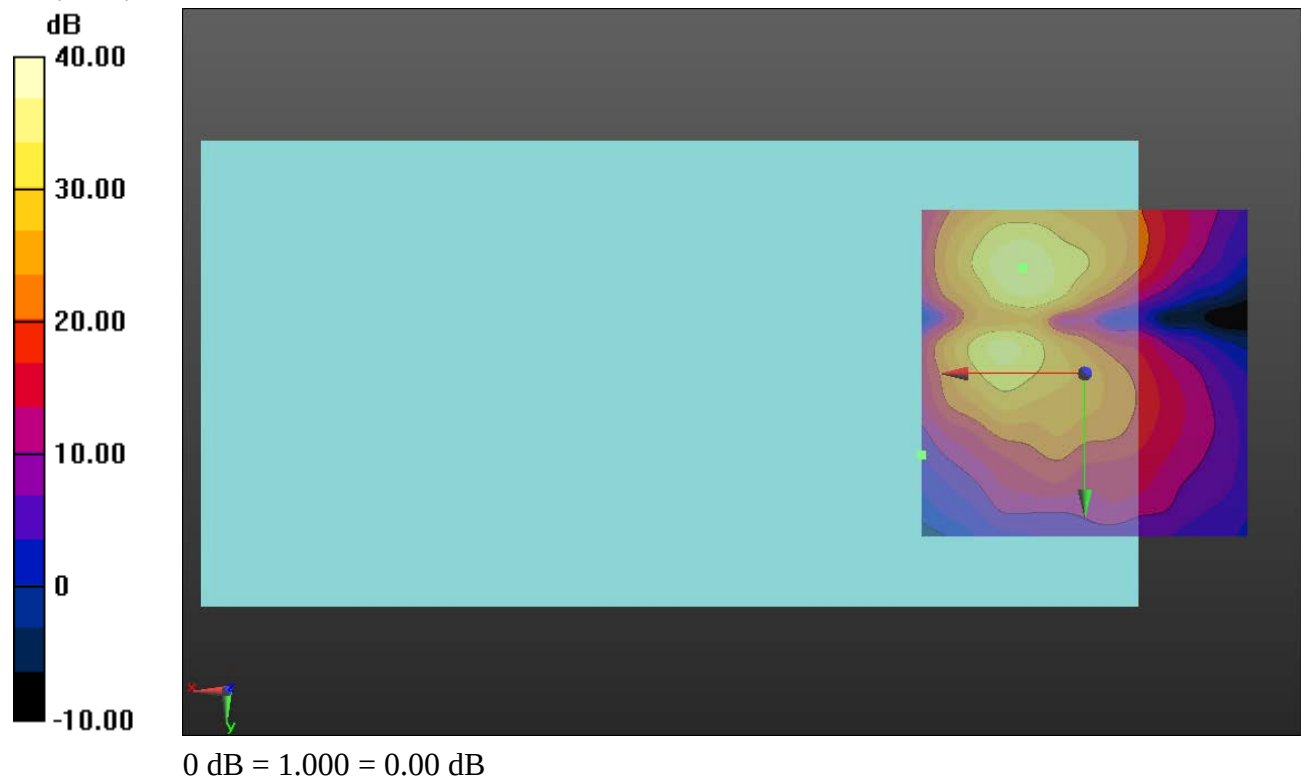
ABM1 comp = -4.94 dBA/m

BWC Factor = 0.16 dB

Location: 9.6, -16.3, 3.7 mm

ABM2 = -29.81 dBA/m

Location: 25, 12.5, 3.7 mm



LTE Band 7

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 QPSK Ch. 21100 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

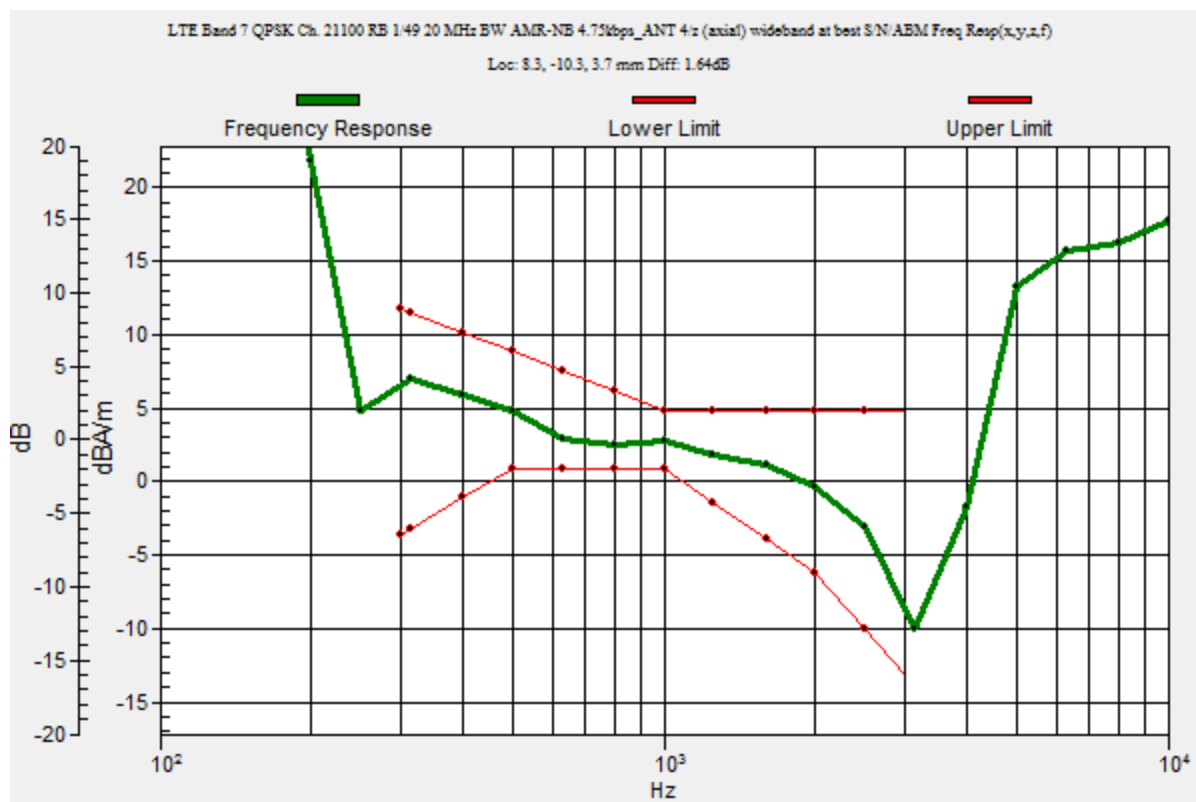
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.64 dB

BWC Factor = 10.80 dB

Location: 8.3, -10.3, 3.7 mm



LTE Band 7

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 QPSK Ch. 21100 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/z (axial) Single Point/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 33.82 dB

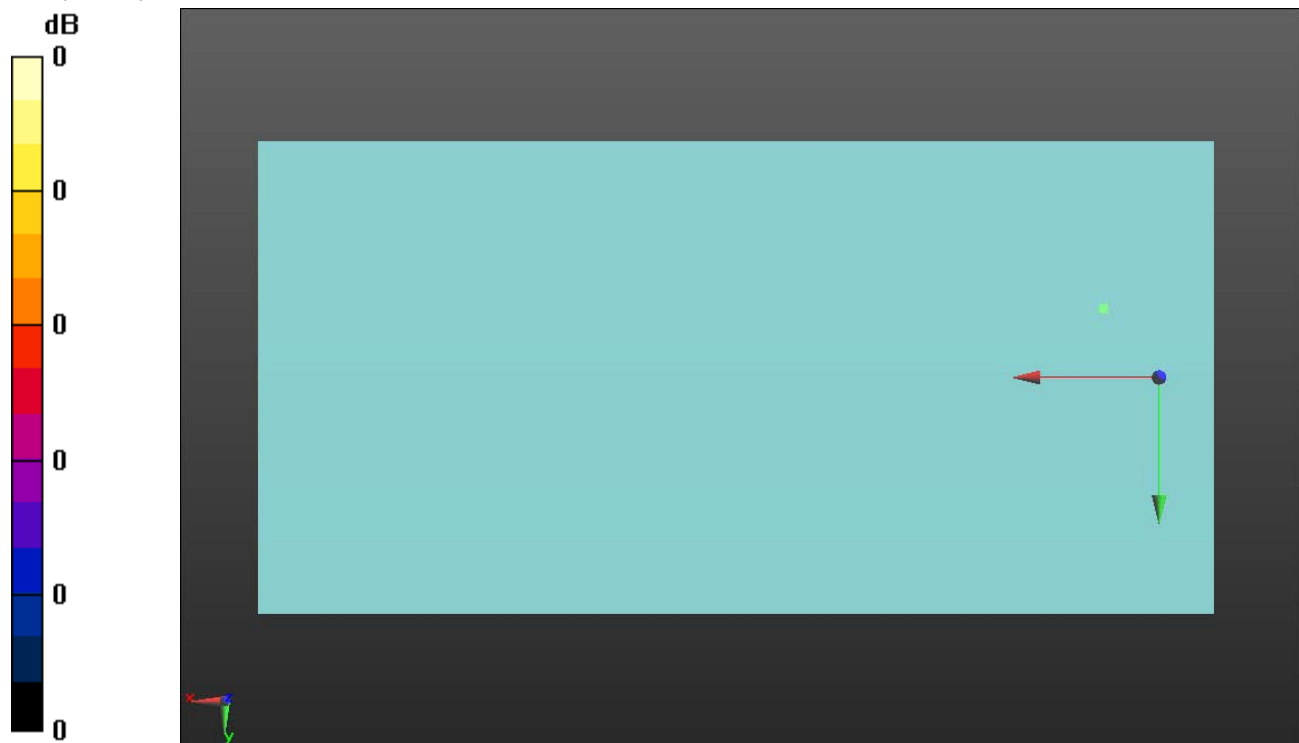
ABM1 comp = 1.71 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -10.3, 3.7 mm

ABM2 = -32.11 dBA/m

Location: 8.3, -10.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 7

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 7 QPSK Ch. 21100 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/y (transversal) Single Point/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 31.28 dB

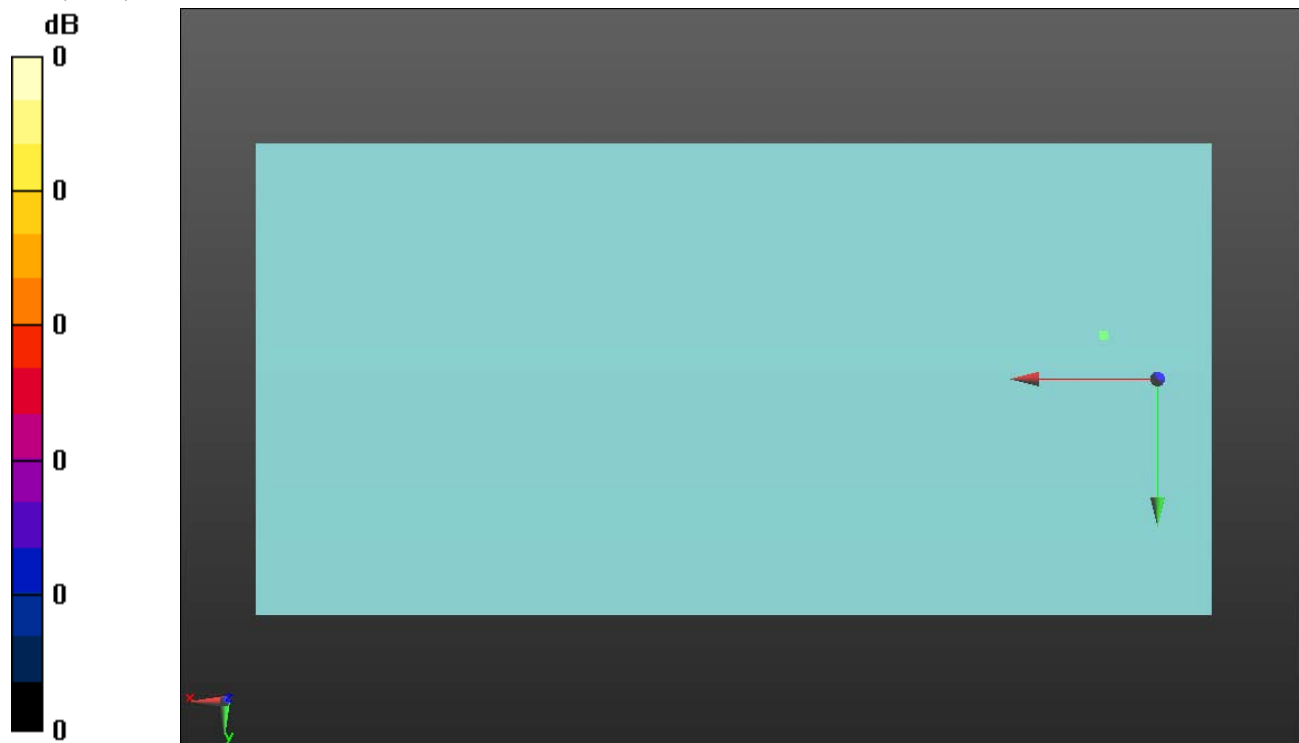
ABM1 comp = -4.84 dBA/m

BWC Factor = 0.16 dB

Location: 8.2, -6.5, 3.7 mm

ABM2 = -36.12 dBA/m

Location: 8.2, -6.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 12

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 QPSK Ch. 23095 RB 1/25 10 MHz BW AMR-NB 4.75kbps ANT 1/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

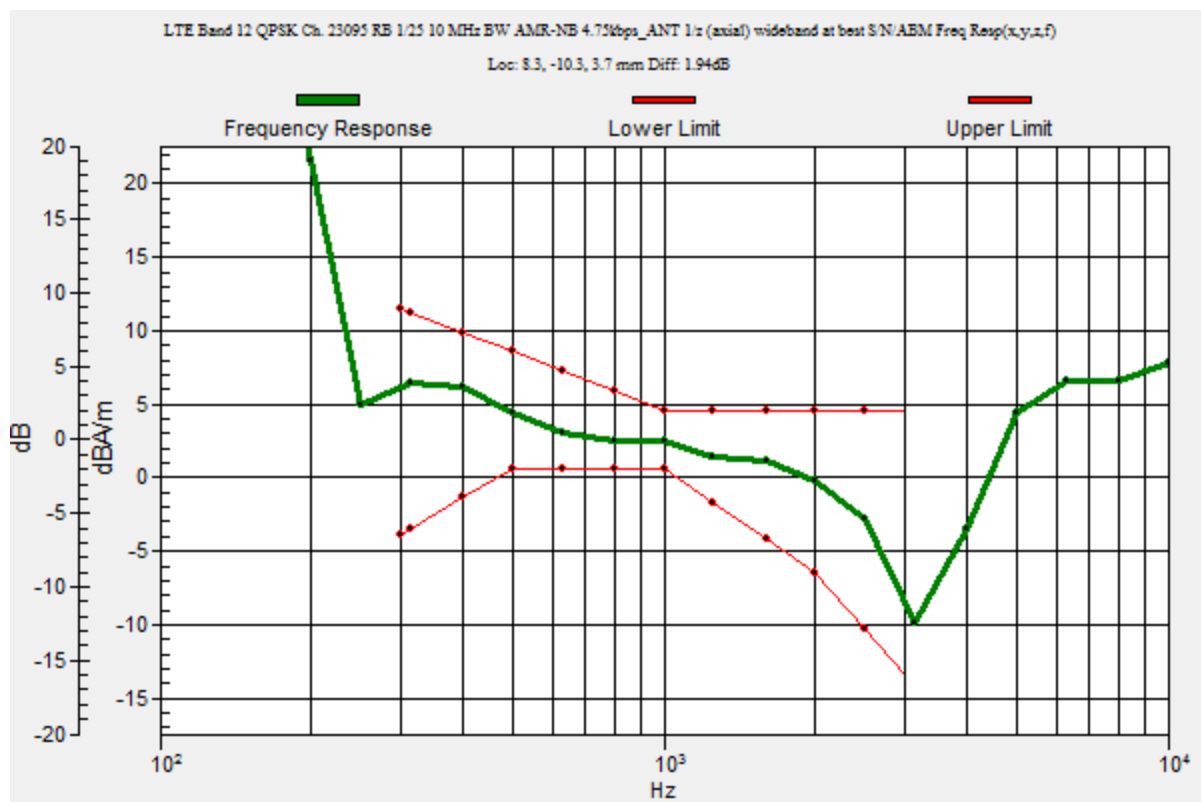
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.94 dB

BWC Factor = 10.80 dB

Location: 8.3, -10.3, 3.7 mm



LTE Band 12

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 QPSK Ch. 23095 RB 1/25 10 MHz BW AMR-NB 4.75kbps_ANT 1/z (axial) Single Point/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 46.51 dB

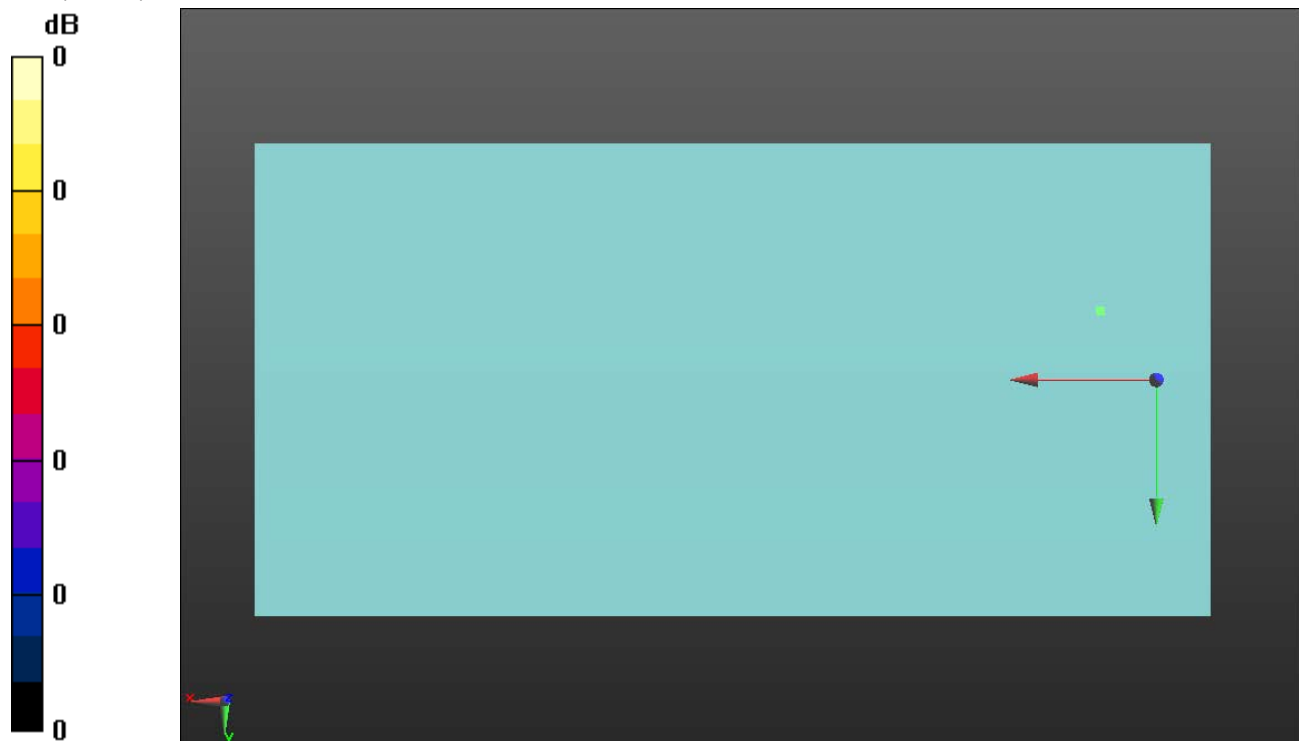
ABM1 comp = 1.88 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -10.3, 3.7 mm

ABM2 = -44.63 dBA/m

Location: 8.3, -10.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 12

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 12 QPSK Ch. 23095 RB 1/25 10 MHz BW AMR-NB 4.75kbps_ANT 1/y (transversal) Single Point/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.90 dB

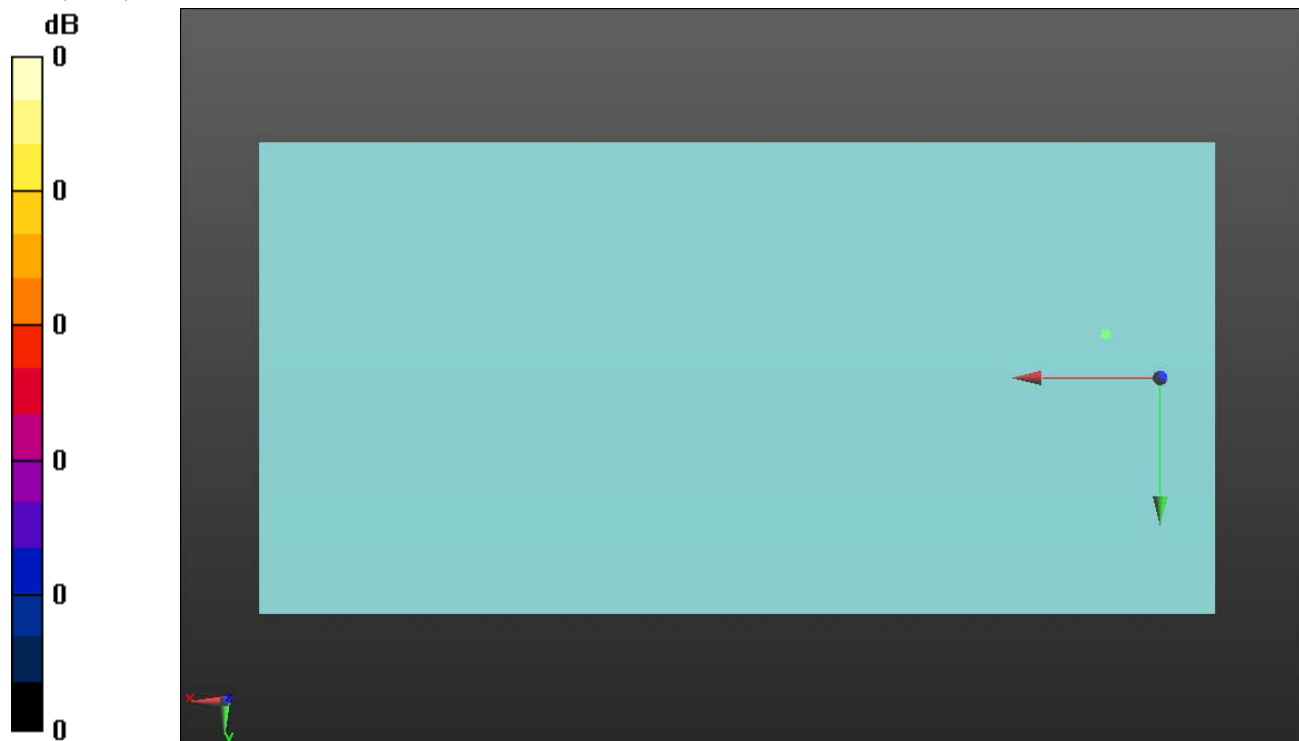
ABM1 comp = -4.58 dBA/m

BWC Factor = 0.16 dB

Location: 8.2, -6.5, 3.7 mm

ABM2 = -44.48 dBA/m

Location: 8.2, -6.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 25

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 25 QPSK Ch. 26365 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

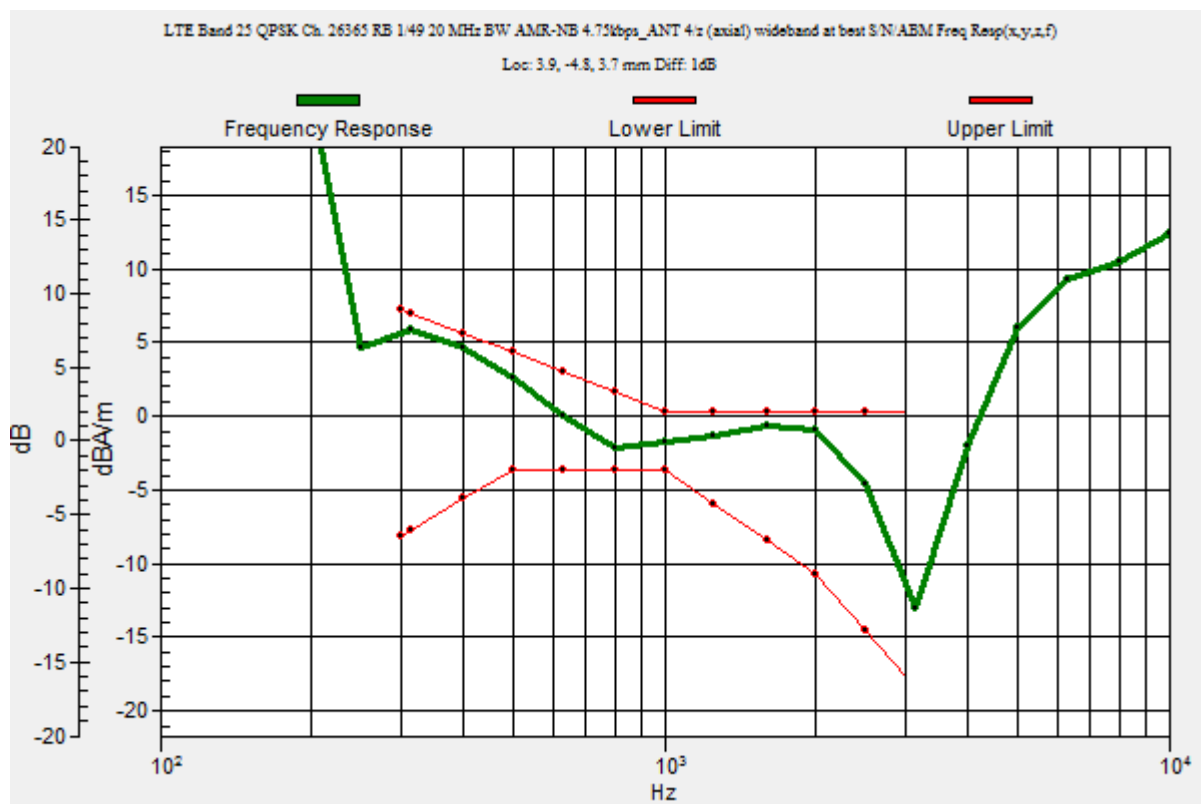
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.00 dB

BWC Factor = 10.80 dB

Location: 3.9, -4.8, 3.7 mm



LTE Band 25

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 25 QPSK Ch. 26365 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.83 dB

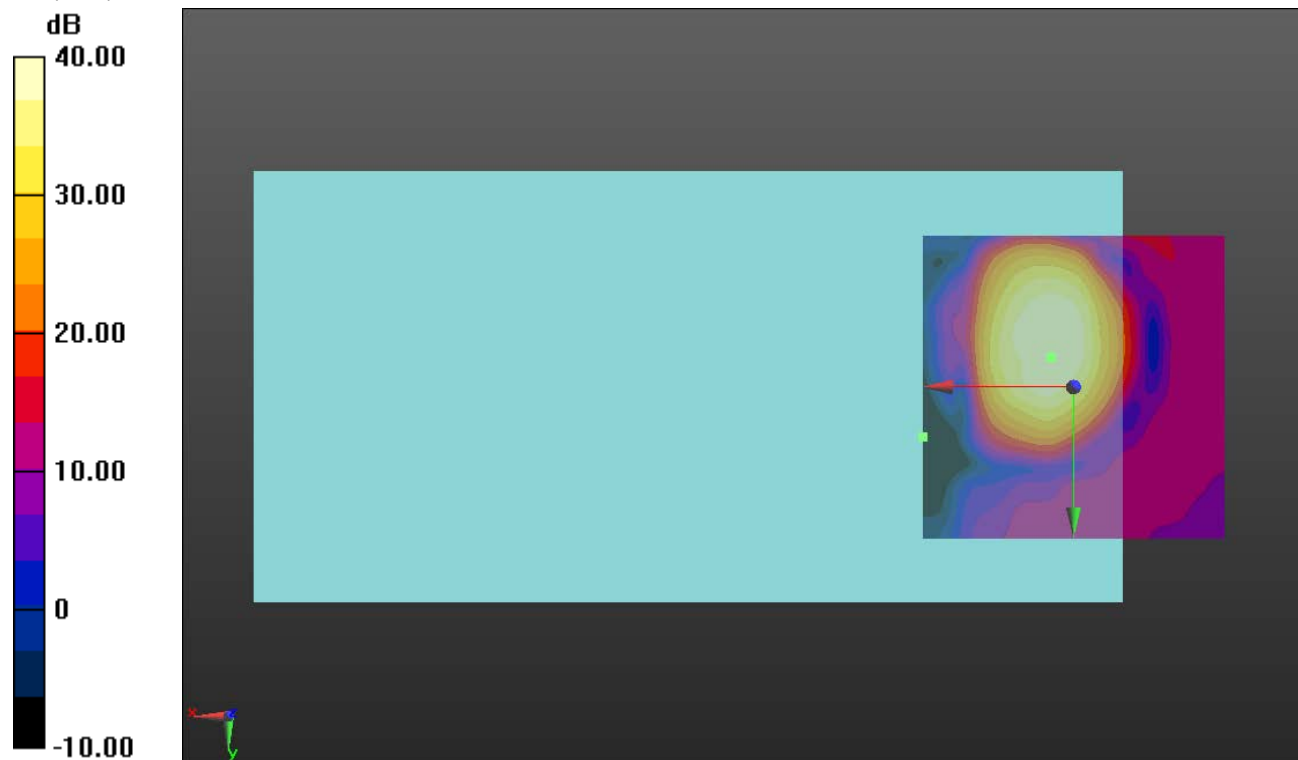
ABM1 comp = -2.76 dBA/m

BWC Factor = 0.16 dB

Location: 3.8, -5, 3.7 mm

ABM2 = -21.04 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 25

Communication System: UID 0, @LTE (FDD) (0); Frequency: 1882.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 25 QPSK Ch. 26365 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 31.70 dB

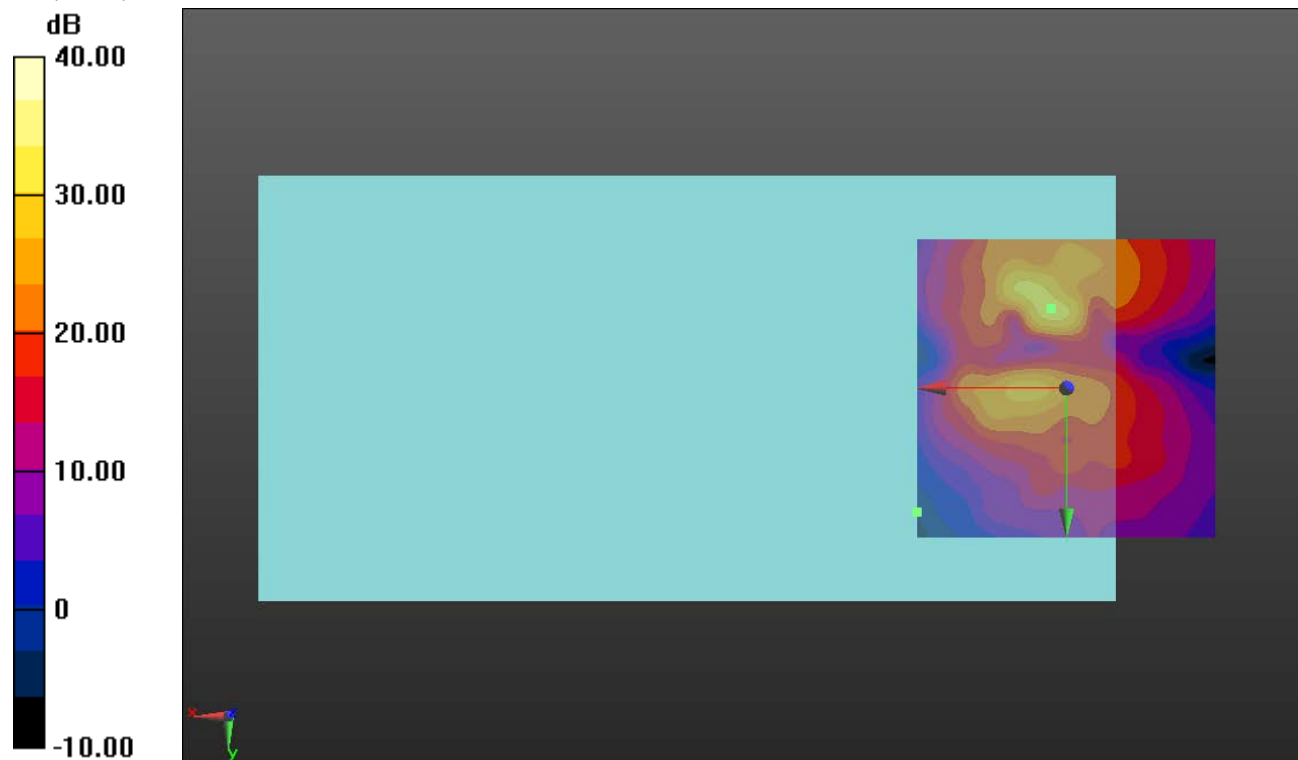
ABM1 comp = -11.76 dBA/m

BWC Factor = 0.16 dB

Location: 2.5, -13.3, 3.7 mm

ABM2 = -24.72 dBA/m

Location: 25, 20.8, 3.7 mm



LTE Band 26

Communication System: UID 0, @LTE (FDD) (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 26 QPSK Ch. 26865 RB 1/37 15 MHz BW AMR-NB 4.75kbps_ANT 1/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

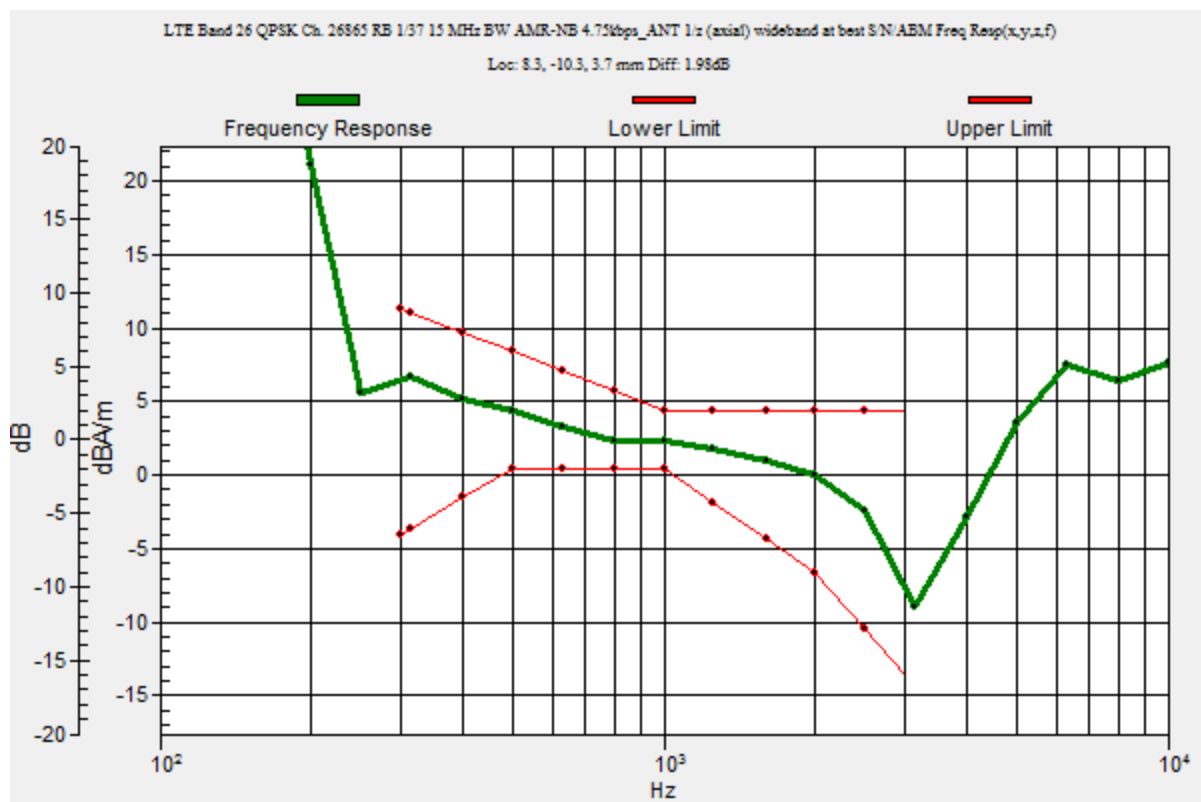
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.98 dB

BWC Factor = 10.80 dB

Location: 8.3, -10.3, 3.7 mm



LTE Band 26

Communication System: UID 0, @LTE (FDD) (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 26 QPSK Ch. 26865 RB 1/37 15 MHz BW AMR-NB 4.75kbps_ANT 1/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 47.16 dB

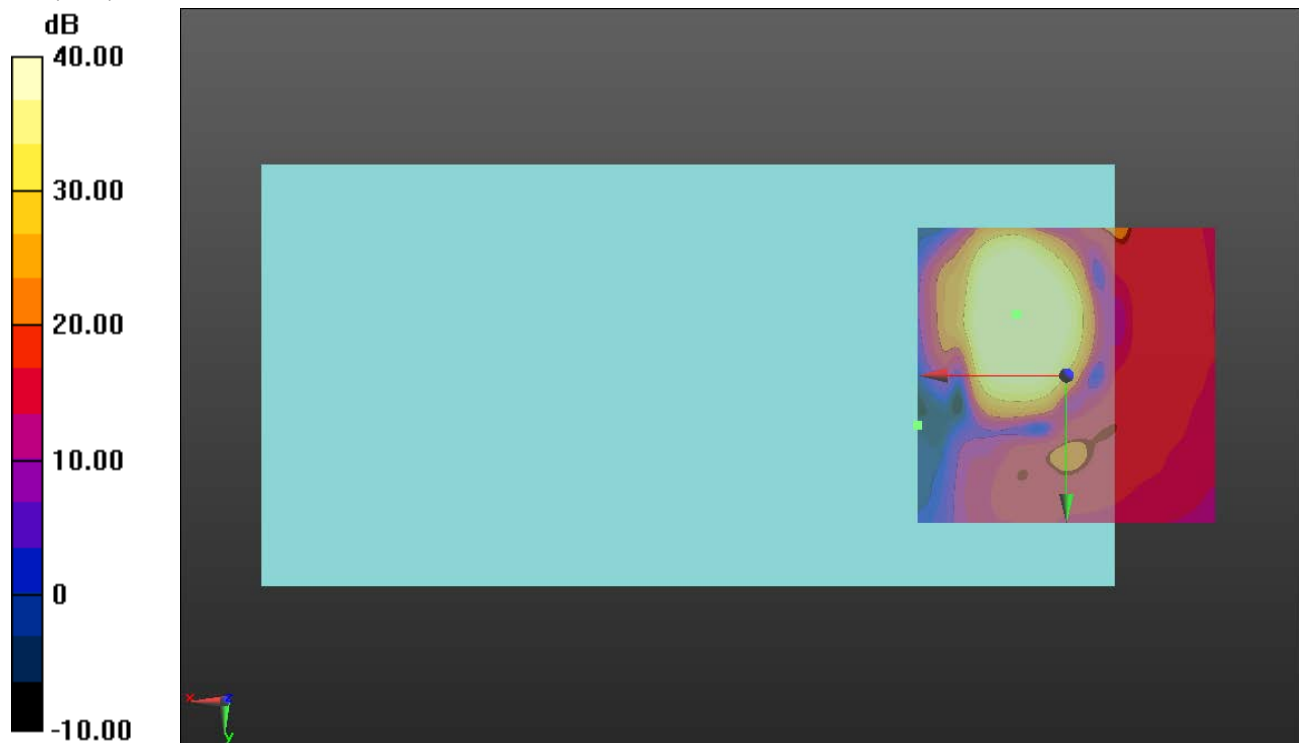
ABM1 comp = 1.79 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -10.4, 3.7 mm

ABM2 = -25.36 dBA/m

Location: 25, 8.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 26

Communication System: UID 0, @LTE (FDD) (0); Frequency: 831.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 26 QPSK Ch. 26865 RB 1/37 15 MHz BW AMR-NB 4.75kbps_ANT 1/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.67 dB

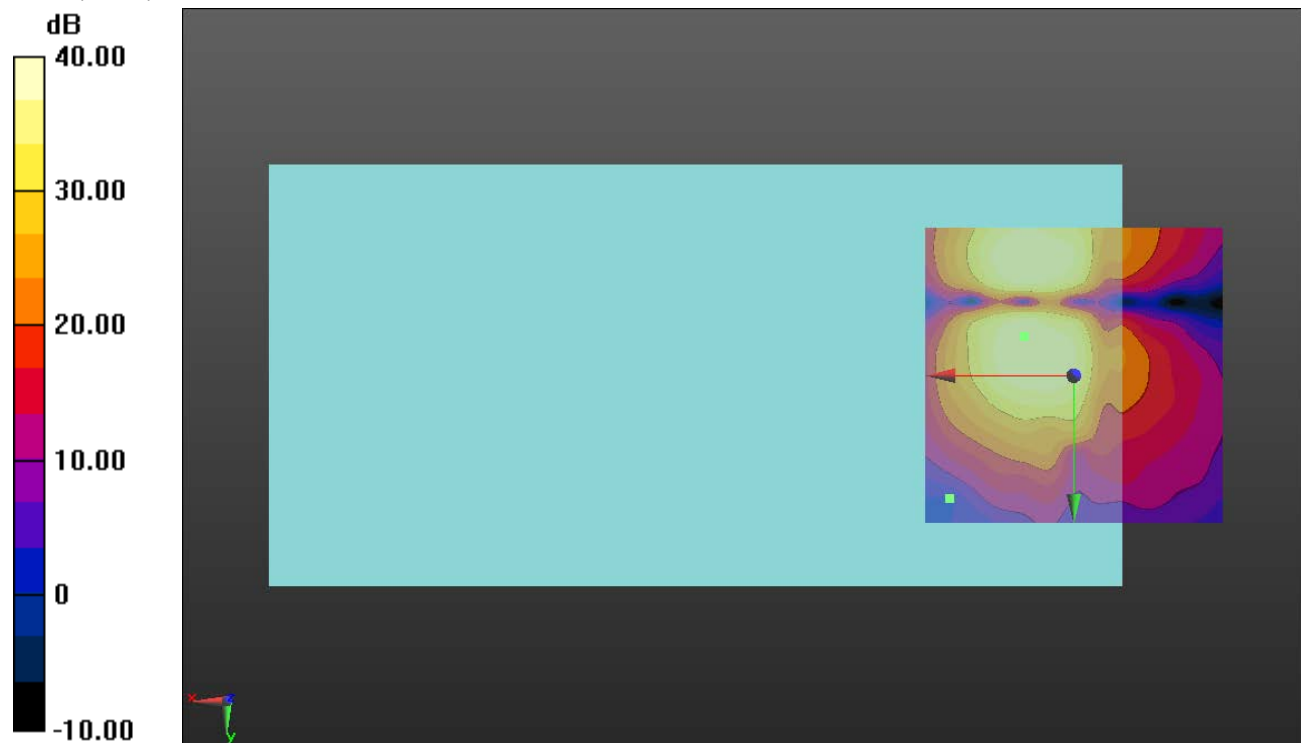
ABM1 comp = -4.09 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -6.7, 3.7 mm

ABM2 = -31.68 dBA/m

Location: 20.8, 20.8, 3.7 mm



LTE Band 30

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 QPSK Ch. 27710 RB 1/25 10 MHz BW AMR-NB 4.75kbps_ANT 4/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

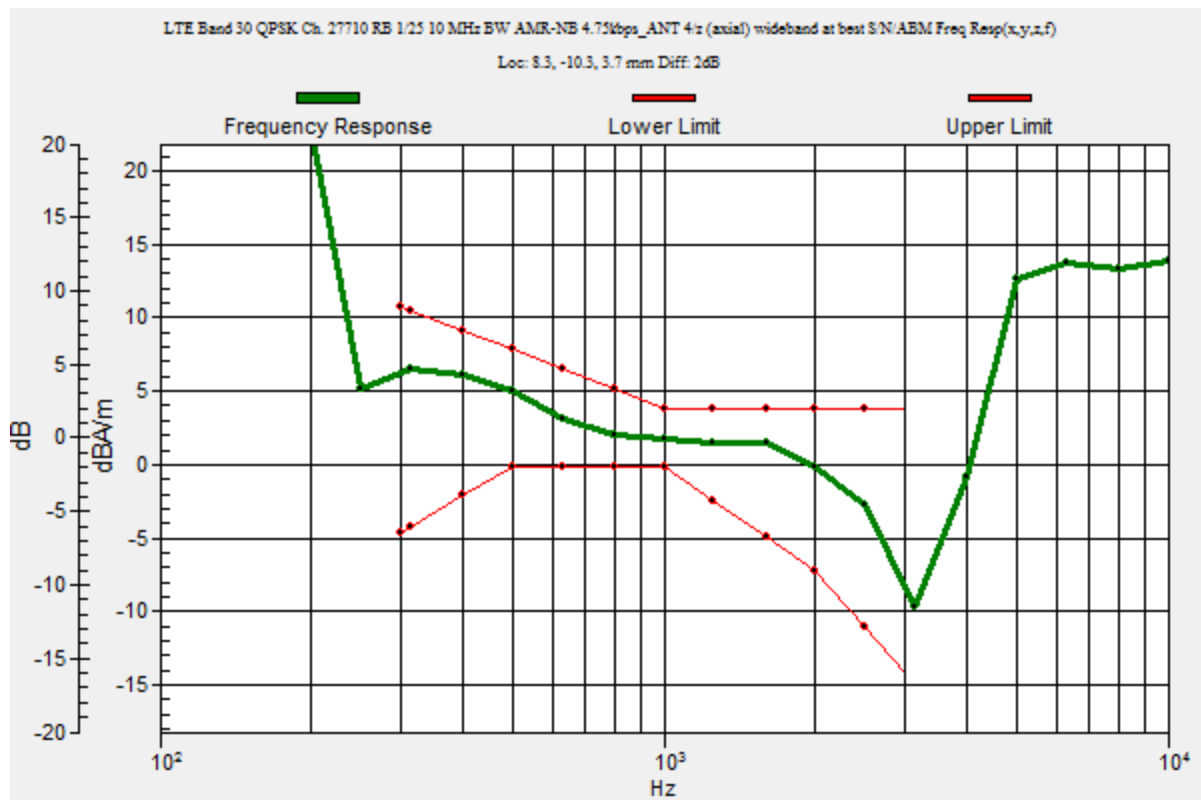
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 8.3, -10.3, 3.7 mm



LTE Band 30

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 QPSK Ch. 27710 RB 1/25 10 MHz BW AMR-NB 4.75kbps_ANT 4/z (axial) Single Point/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.15 dB

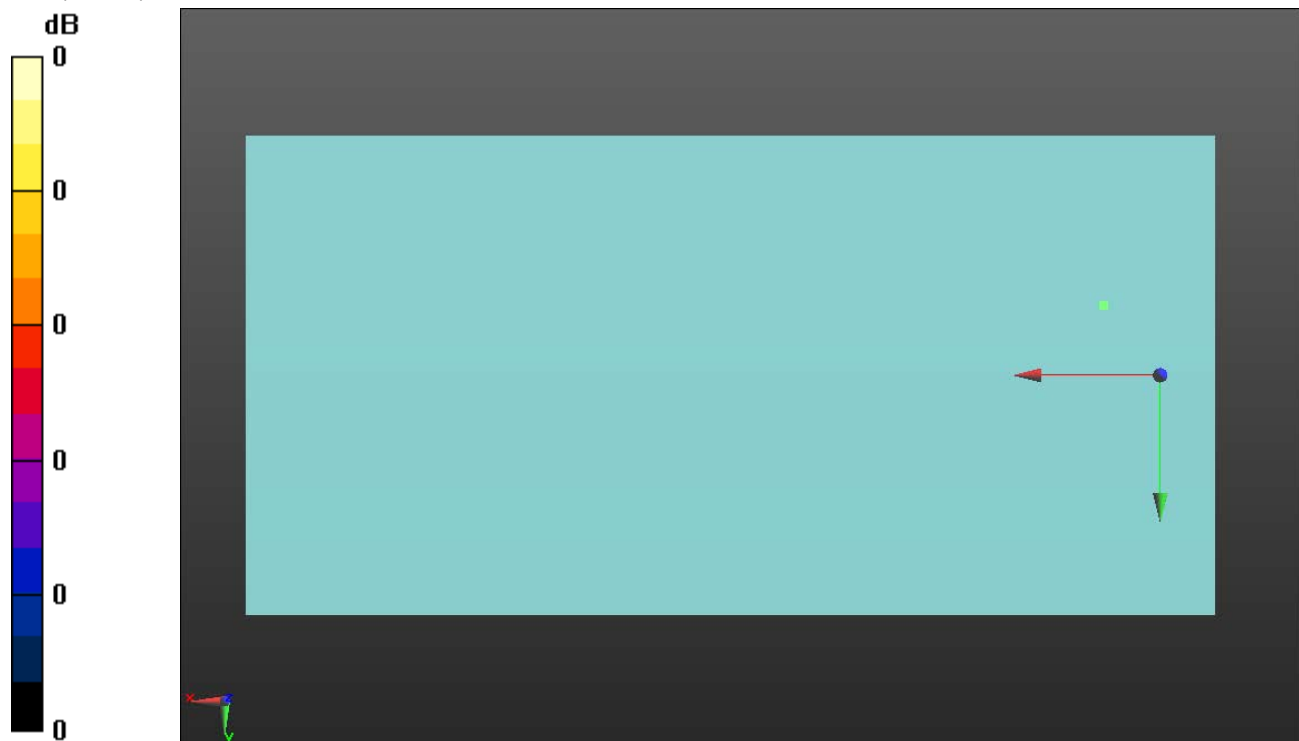
ABM1 comp = 1.73 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -10.3, 3.7 mm

ABM2 = -33.42 dBA/m

Location: 8.3, -10.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 30

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 30 QPSK Ch. 27710 RB 1/25 10 MHz BW AMR-NB 4.75kbps_ANT 4/y (transversal) Single Point/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.74 dB

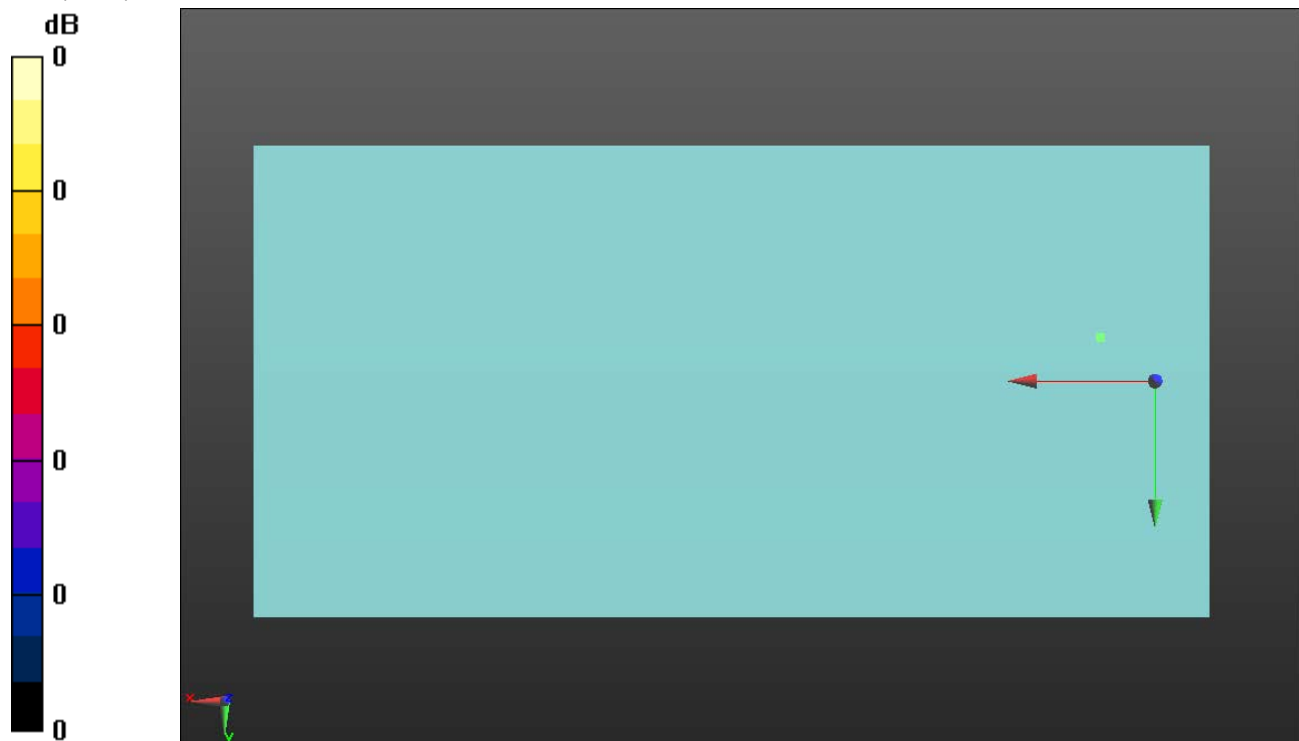
ABM1 comp = -4.92 dBA/m

BWC Factor = 0.16 dB

Location: 8.2, -6.5, 3.7 mm

ABM2 = -43.66 dBA/m

Location: 8.2, -6.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 41

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 QPSK Ch. 40620 RB 1/49 20 MHz BW AMR-NB 4.75kbps/z (axial) wideband_ANT3/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

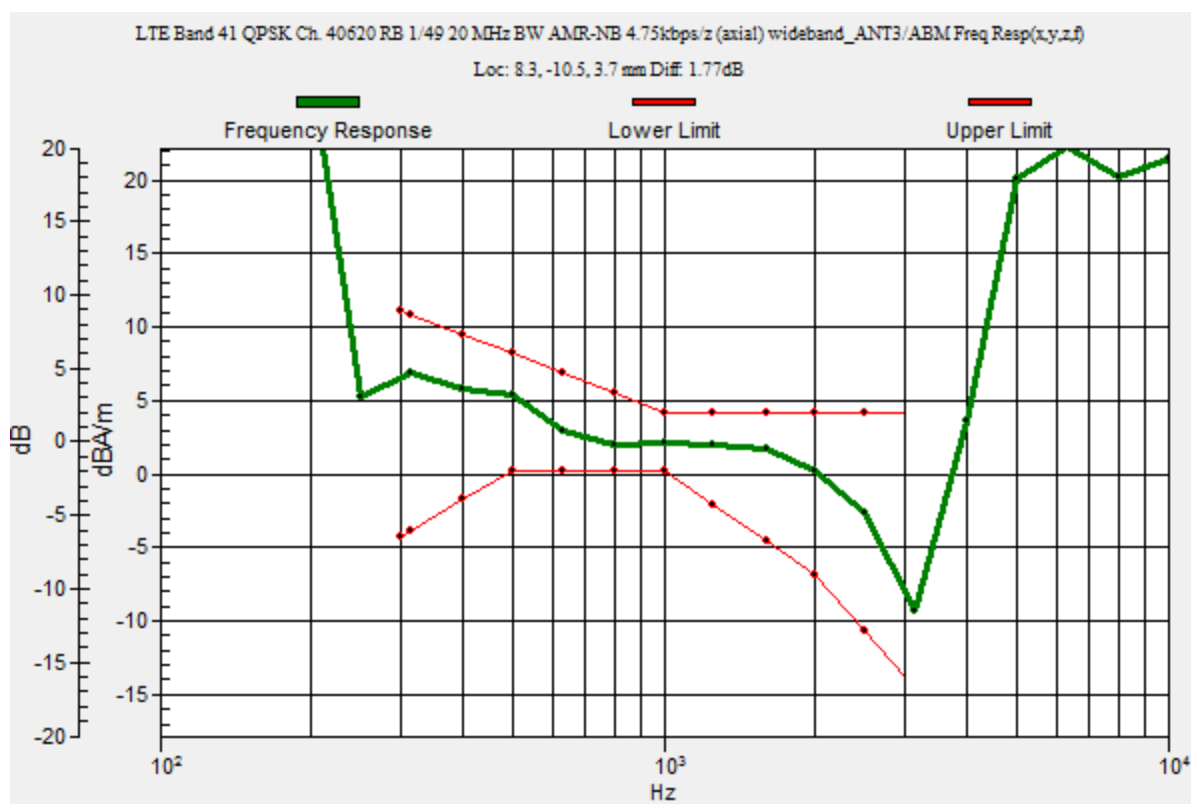
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.77 dB

BWC Factor = 10.80 dB

Location: 8.3, -10.5, 3.7 mm



LTE Band 41

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 QPSK Ch. 40620 RB 1/49 20 MHz BW AMR-NB 4.75kbps 2/z (axial) 4.2mm 50 x 50_ANT3/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 30.02 dB

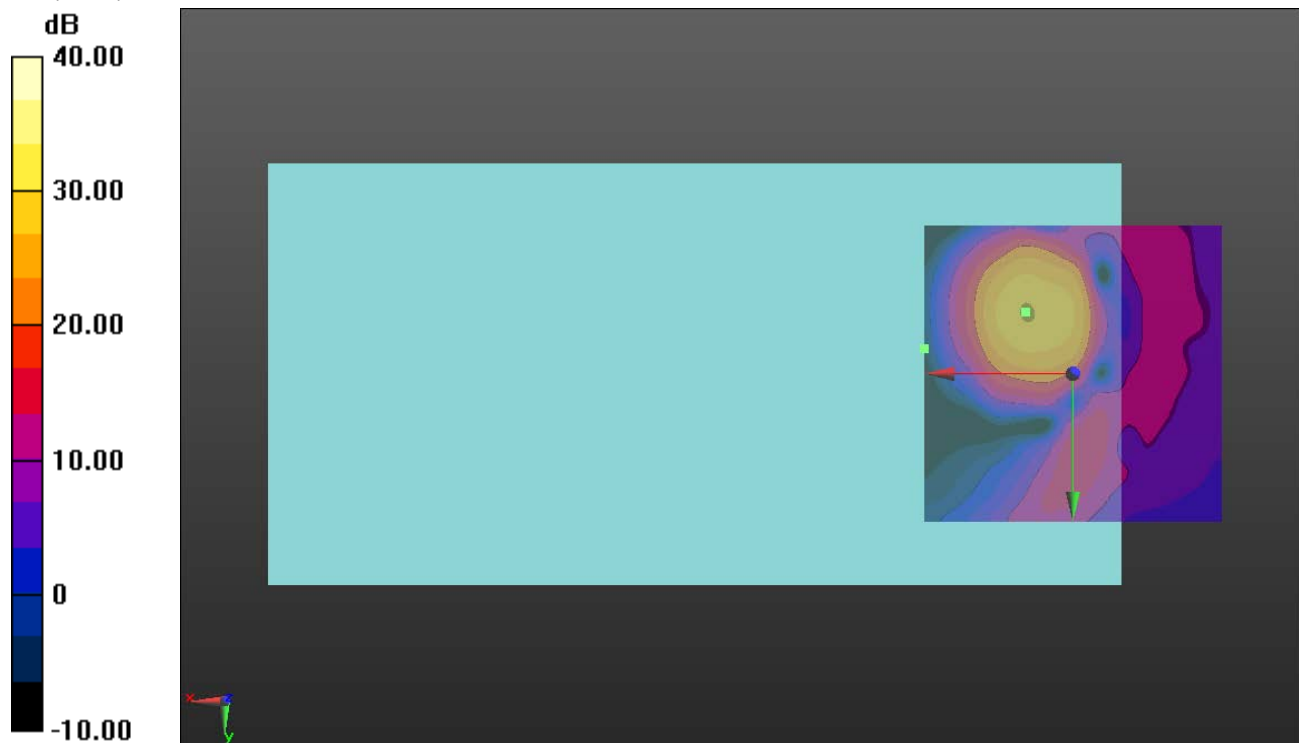
ABM1 comp = 1.73 dBA/m

BWC Factor = 0.16 dB

Location: 7.9, -10.4, 3.7 mm

ABM2 = -14.12 dBA/m

Location: 25, -4.2, 3.7 mm



LTE Band 41

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 41 QPSK Ch. 40620 RB 1/49 20 MHz BW AMR-NB 4.75kbps/y (transversal) Single Point_ANT3/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 30.59 dB

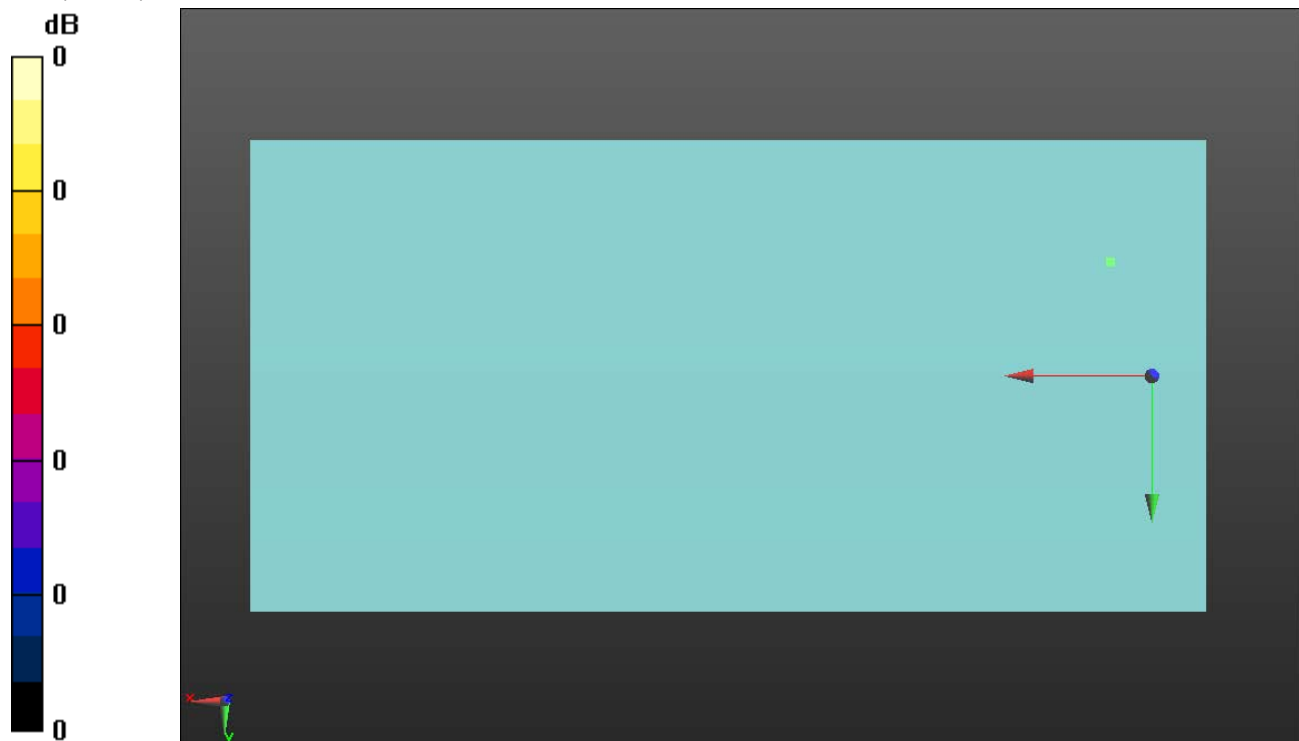
ABM1 comp = -5.15 dBA/m

BWC Factor = 0.16 dB

Location: 6.3, -17.2, 3.7 mm

ABM2 = -35.74 dBA/m

Location: 6.3, -17.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 48

Communication System: UID 0, @LTE (TDD) (0); Frequency: 3625 MHz;Duty Cycle: 1:1.59956

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 48 QPSK Ch. 55990 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 3/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

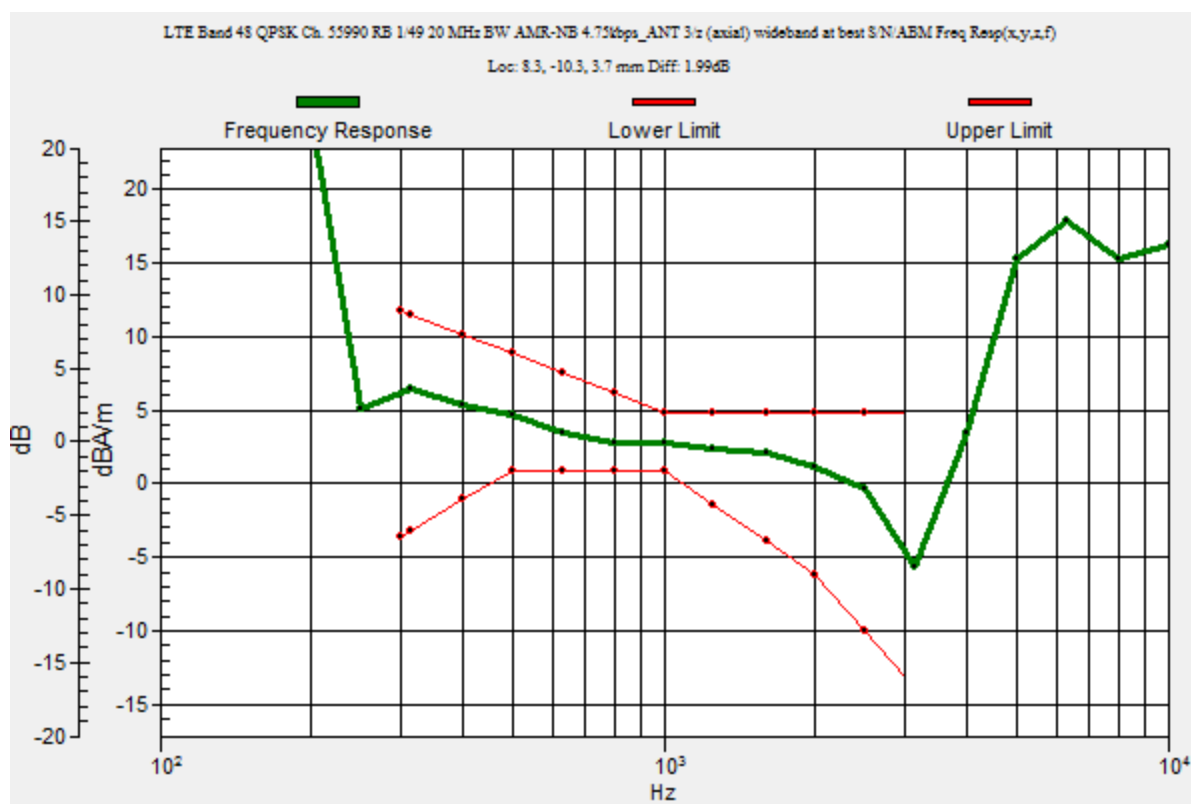
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.99 dB

BWC Factor = 10.80 dB

Location: 8.3, -10.3, 3.7 mm



LTE Band 48

Communication System: UID 0, @LTE (TDD) (0); Frequency: 3625 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 48 QPSK Ch. 55990 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 3/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 33.22 dB

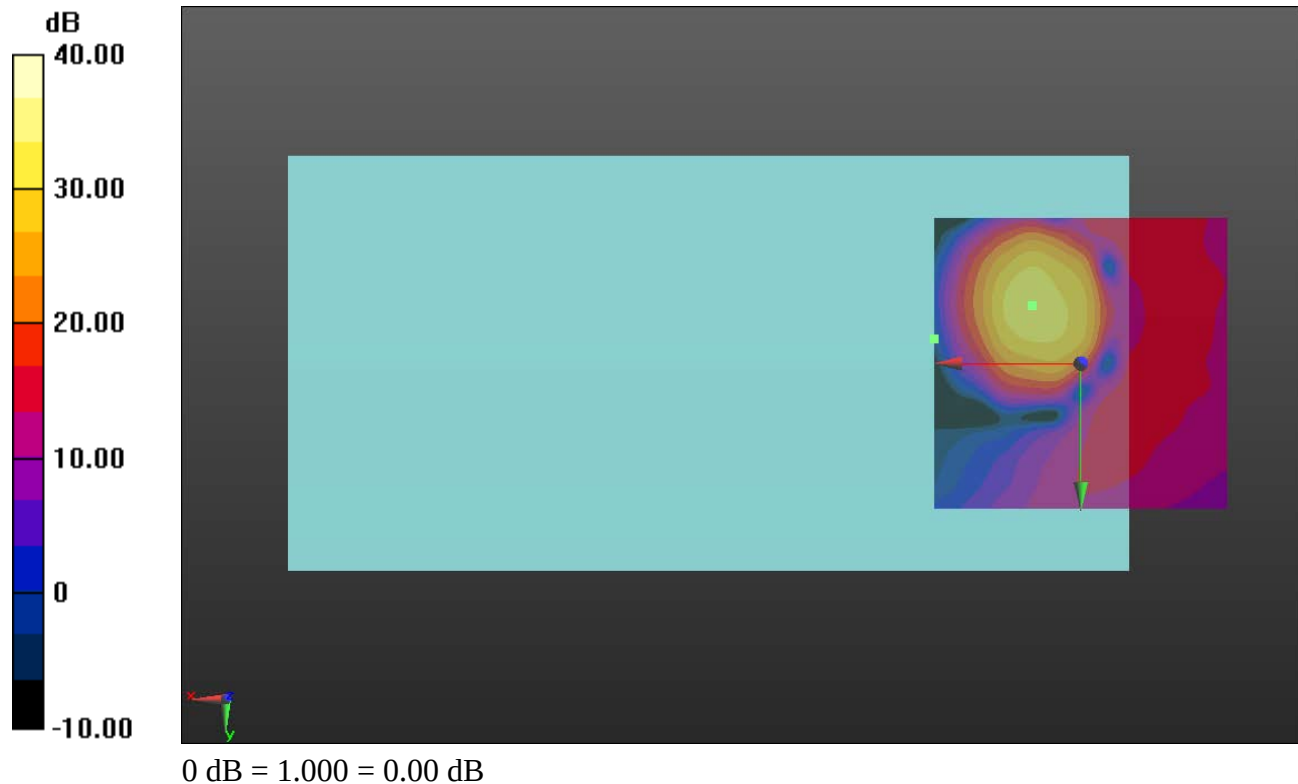
ABM1 comp = 2.25 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -10, 3.7 mm

ABM2 = -17.71 dBA/m

Location: 25, -4.2, 3.7 mm



LTE Band 48

Communication System: UID 0, @LTE (TDD) (0); Frequency: 3625 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 48 QPSK Ch. 55990 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 3/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: 24.04

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.91 dB

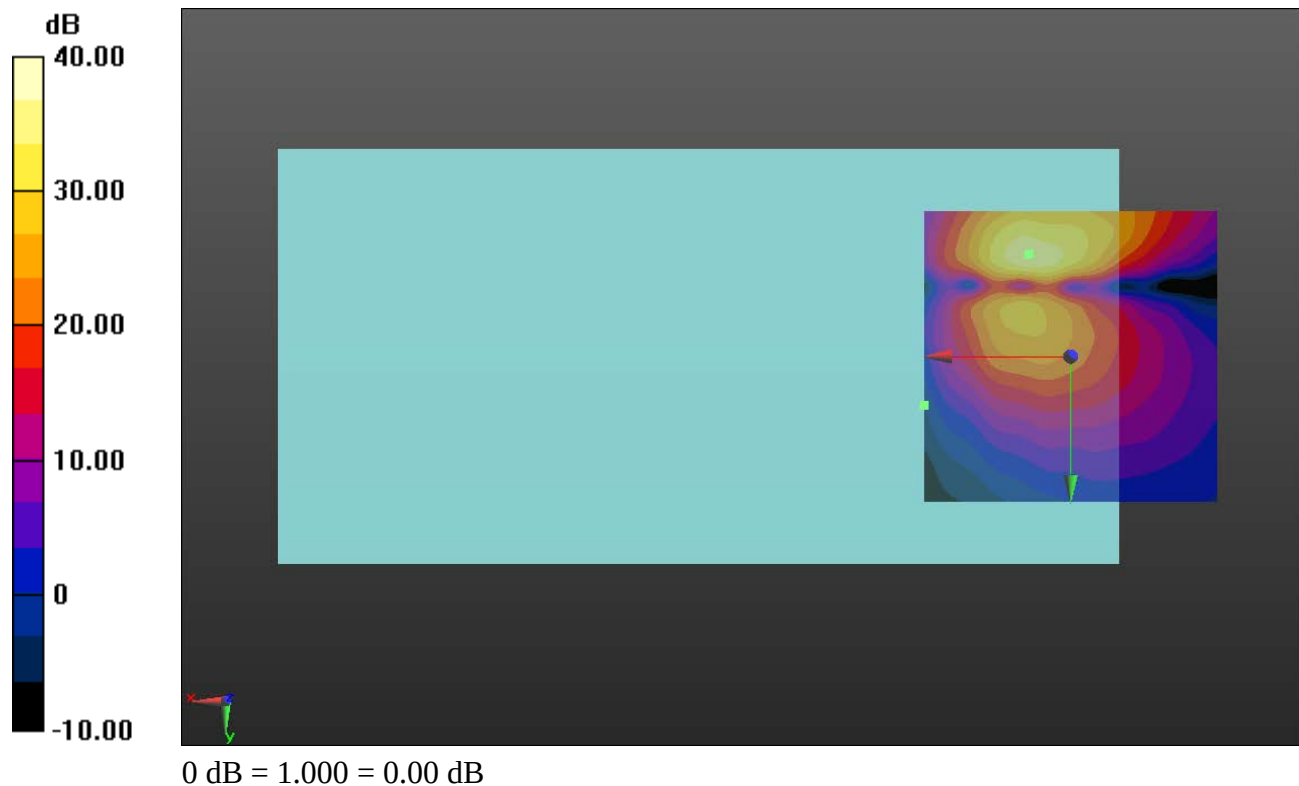
ABM1 comp = -4.24 dBA/m

BWC Factor = 0.16 dB

Location: 7.1, -17.5, 3.7 mm

ABM2 = -18.45 dBA/m

Location: 25, 8.3, 3.7 mm



LTE Band 66

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 QPSK Ch. 132322 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/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: 47.15

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

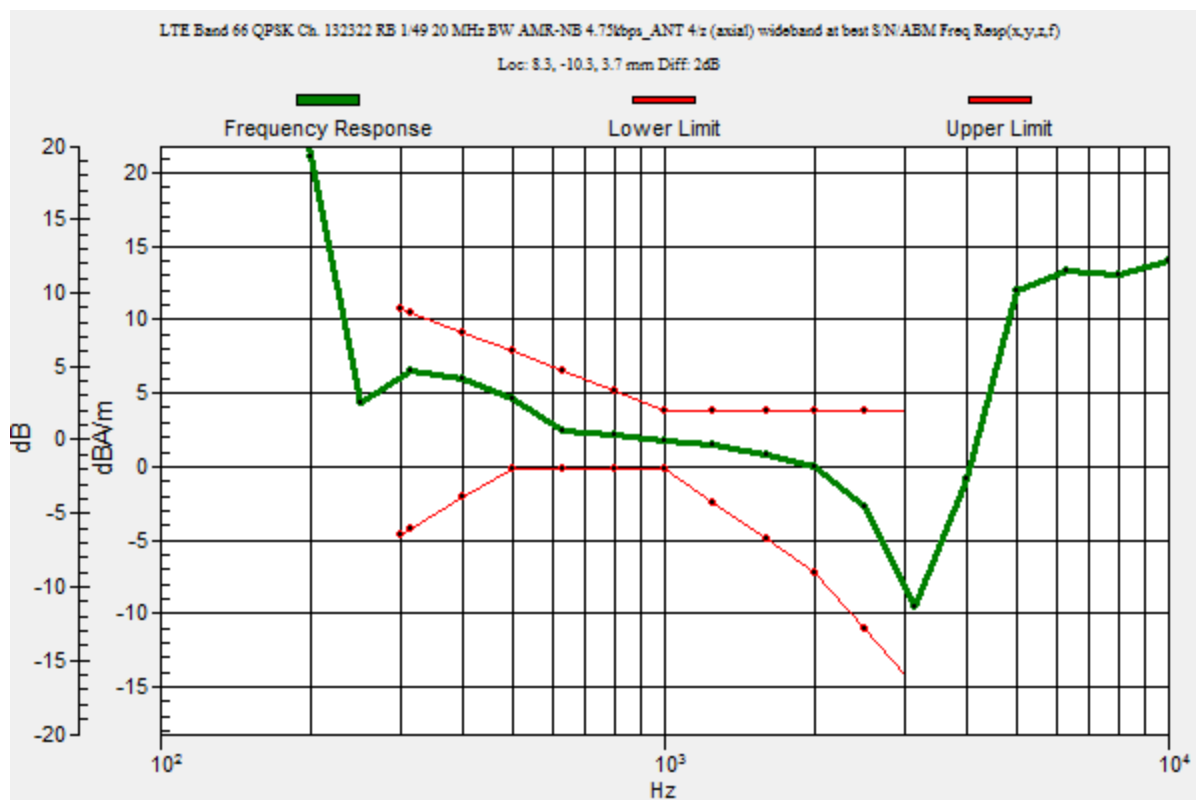
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 8.3, -10.3, 3.7 mm



LTE Band 66

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 QPSK Ch. 132322 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/z (axial) Single Point/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.04 dB

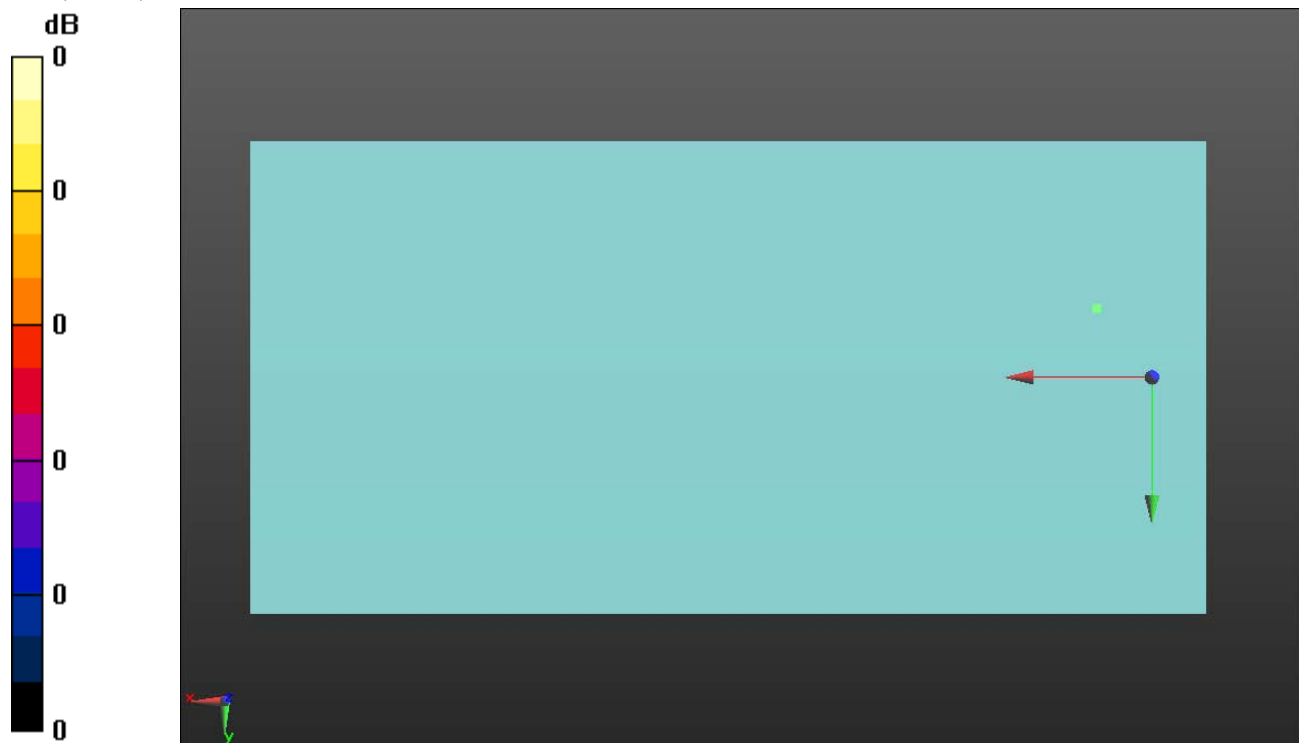
ABM1 comp = 1.84 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -10.3, 3.7 mm

ABM2 = -33.20 dBA/m

Location: 8.3, -10.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

LTE Band 66

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/LTE Band 66 QPSK Ch. 132322 RB 1/49 20 MHz BW AMR-NB 4.75kbps_ANT 4/y (transversal) Single Point/ABM SNR(x,y,z)

(1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 24.04

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.06 dB

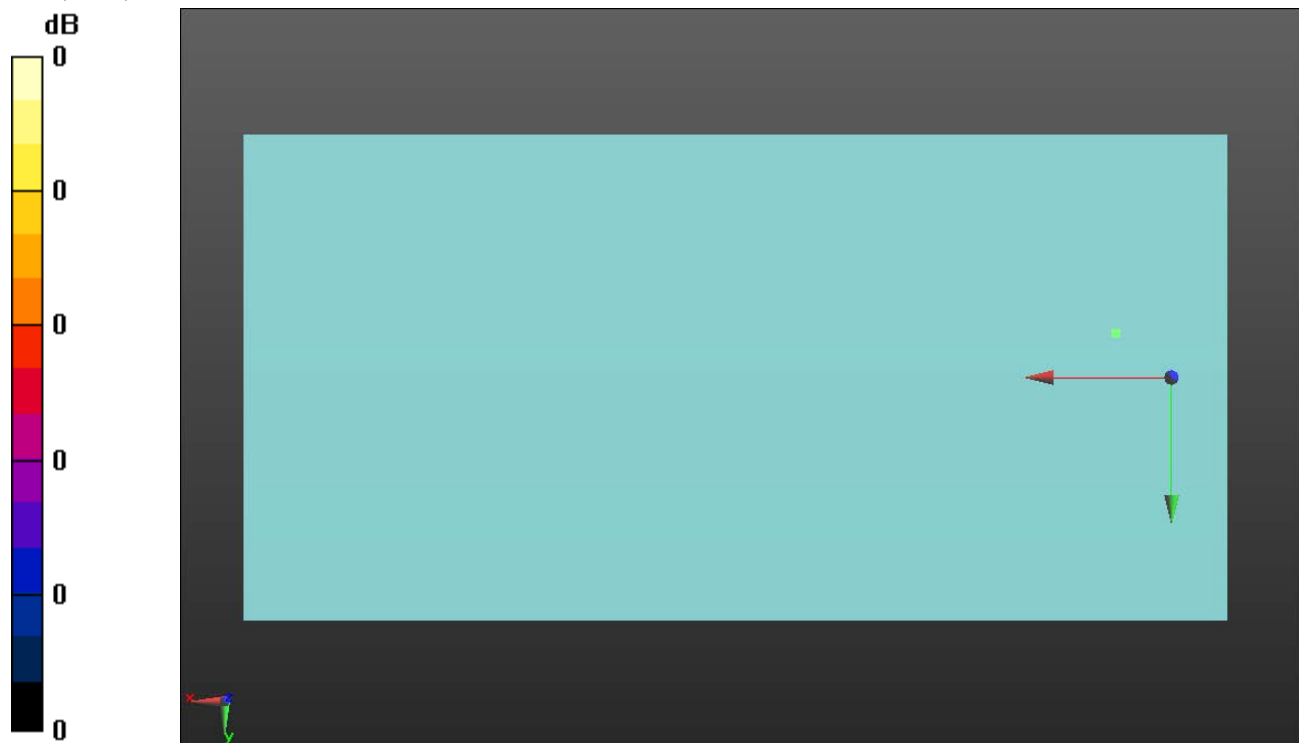
ABM1 comp = -4.89 dBA/m

BWC Factor = 0.16 dB

Location: 8.2, -6.5, 3.7 mm

ABM2 = -43.95 dBA/m

Location: 8.2, -6.5, 3.7 mm



802.11b

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)/802.11b Ch. 6 20MHz BW AMR-WB 6.6kbps_ANT 3/z (axial) wideband_CCK 11Mbps/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: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

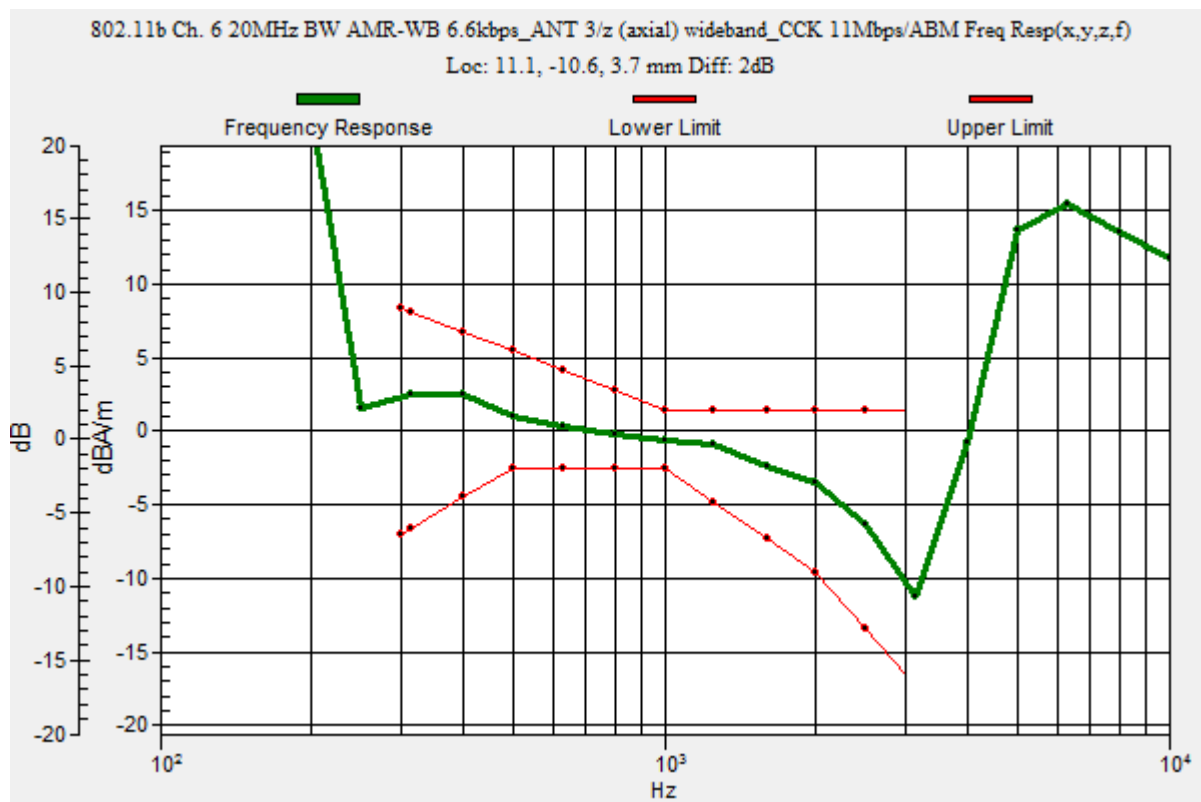
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 11.1, -10.6, 3.7 mm



802.11b

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 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11b Ch. 6 20MHz BW AMR-WB
6.6kbps_ANT 3/z (axial) Single Point_CCK 11Mbps/ABM SNR(x,y,z) (1x1x1): Measurement**

grid: dx=10mm, dy=10mm

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

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 31.40 dB

ABM1 comp = -1.08 dBA/m

BWC Factor = 0.16 dB

Location: 11.1, -10.6, 3.7 mm

ABM2 = -32.49 dBA/m

Location: 11.1, -10.6, 3.7 mm



0 dB = 1.000 = 0.00 dB

802.11b

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 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11b Ch. 6 20MHz BW AMR-WB
6.6kbps_ANT 3/y (transversal) Single Point_CCK 11Mbps/ABM SNR(x,y,z) (1x1x1):**

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

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

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 30.45 dB

ABM1 comp = -11.74 dBA/m

BWC Factor = 0.16 dB

Location: 8.4, -17.2, 3.7 mm

ABM2 = -42.19 dBA/m

Location: 8.4, -17.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5180 MHz;Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a 6Mbps Ch. 36 20MHz
BW_ANT 6/z (axial) wideband_EVS 5.9kbps/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: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

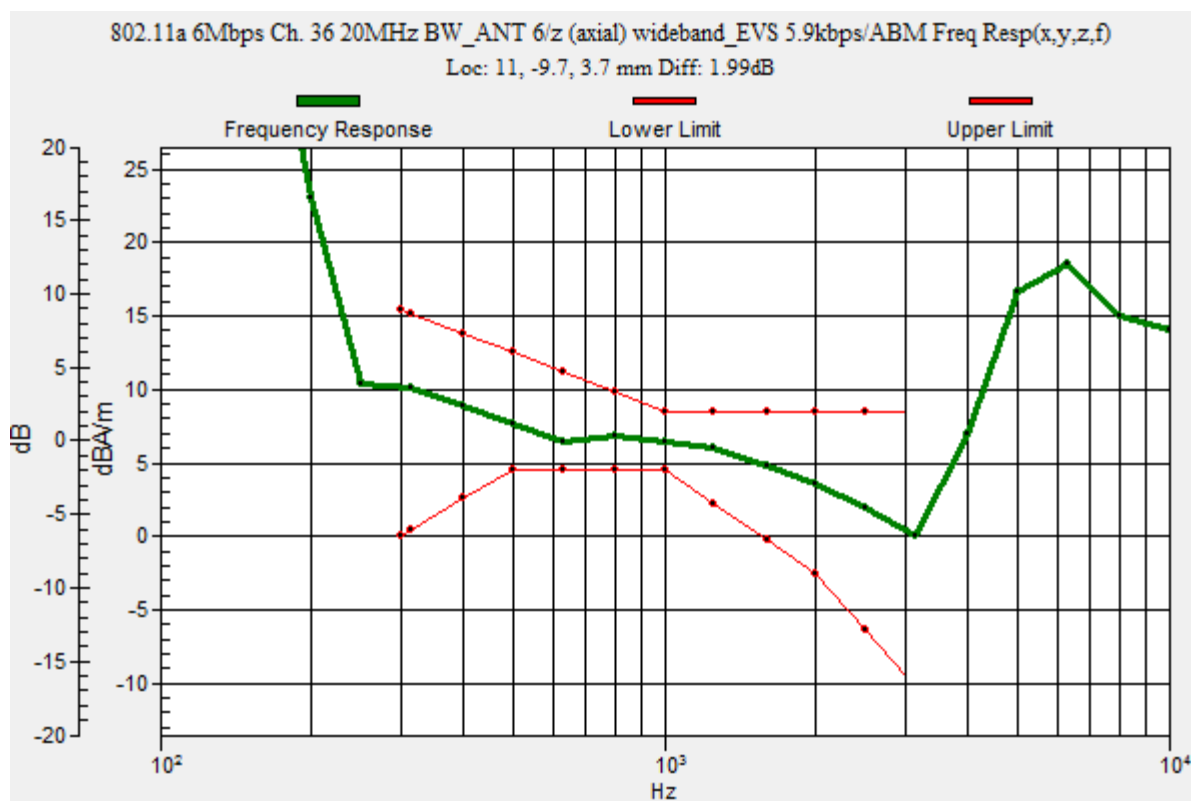
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.99 dB

BWC Factor = 10.80 dB

Location: 11, -9.7, 3.7 mm



802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a 6Mbps Ch. 36 20MHz
BW_ANT 6/z (axial) Single Point_EVS 5.9kbps/ABM SNR(x,y,z) (1x1x1):** Measurement grid:

dx=10mm, dy=10mm

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

Output Gain: 15.17

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.15 dB

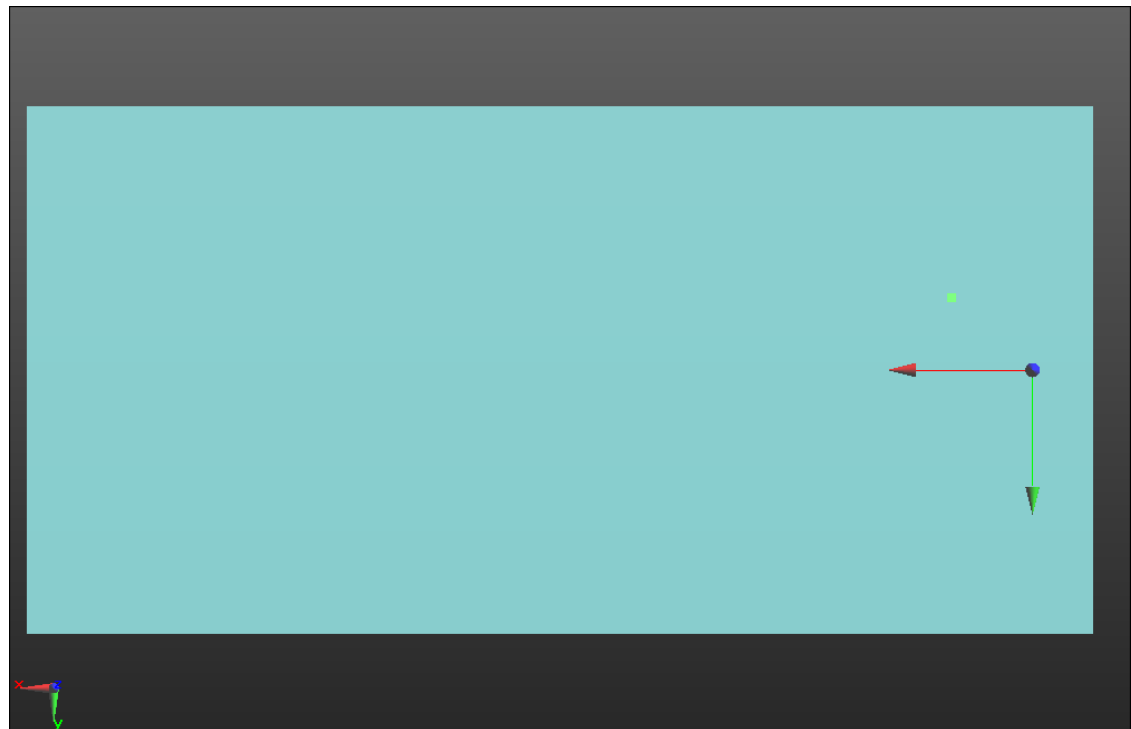
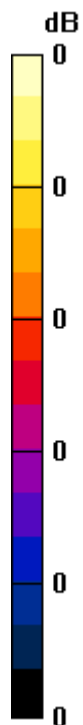
ABM1 comp = 2.95 dBA/m

BWC Factor = 0.16 dB

Location: 11, -9.7, 3.7 mm

ABM2 = -32.20 dBA/m

Location: 11, -9.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5180 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a 6Mbps Ch. 36 20MHz
BW_ANT 6/y (transversal) 4.2mm 50 x 50_EVS 5.9kbps/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: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 33.93 dB

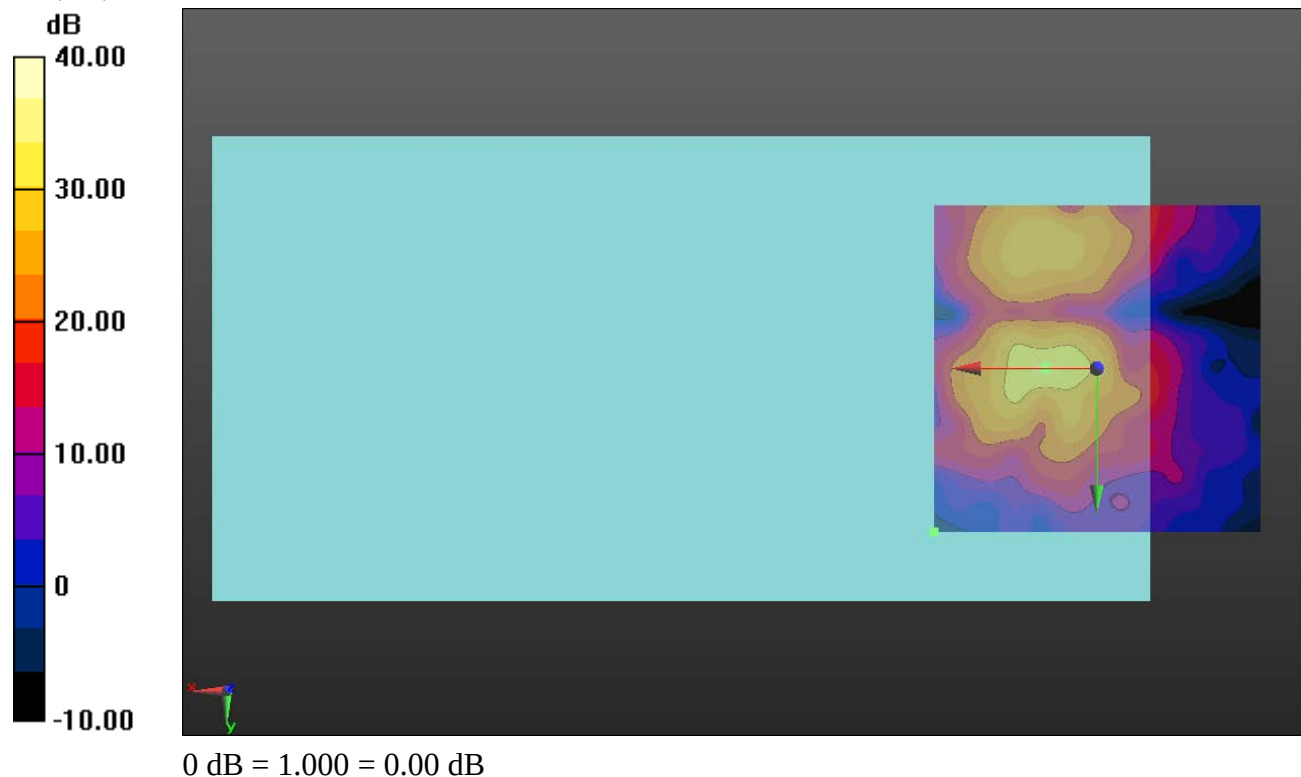
ABM1 comp = -14.05 dBA/m

BWC Factor = 0.16 dB

Location: 7.9, 0, 3.7 mm

ABM2 = -33.53 dBA/m

Location: 25, 25, 3.7 mm



802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5260 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 52 20MHz BW EVS 5.9kbps_ANT 6/z (axial) wideband_BPSK 6Mbps/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: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

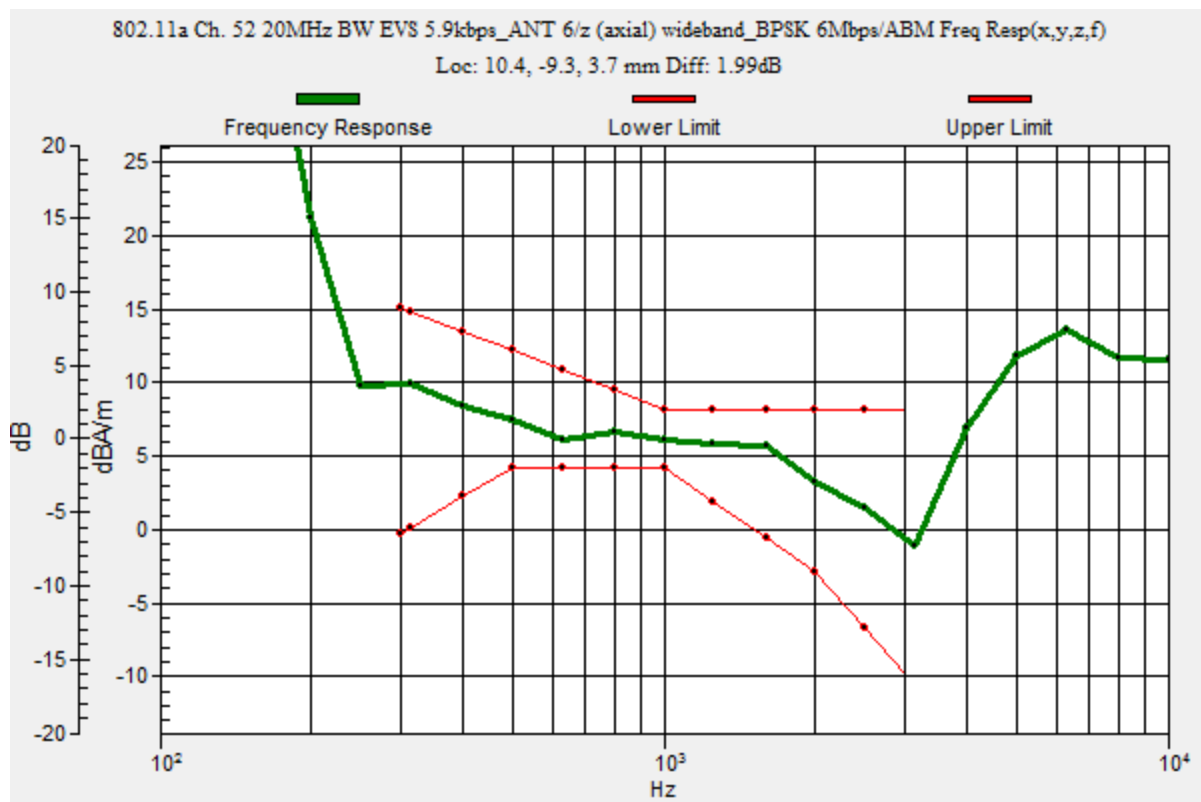
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.99 dB

BWC Factor = 10.80 dB

Location: 10.4, -9.3, 3.7 mm



802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5260 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 52 20MHz BW EVS
5.9kbps_ANT 6/z (axial) 4.2mm 50 x 50_BPSK 6Mbps/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: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.92 dB

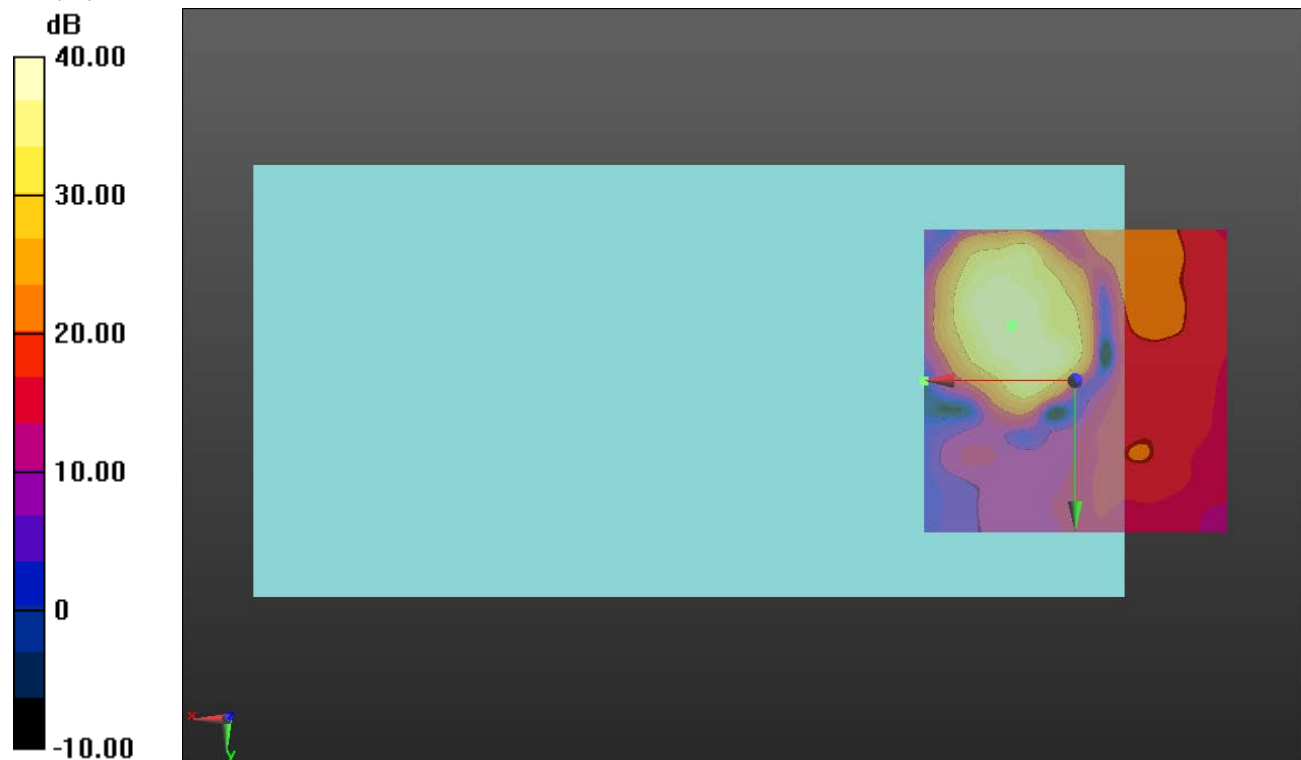
ABM1 comp = 5.51 dBA/m

BWC Factor = 0.16 dB

Location: 10.4, -9.2, 3.7 mm

ABM2 = -31.64 dBA/m

Location: 25, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5260 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 52 20MHz BW EVS
5.9kbps_ANT 6/y (transversal) 4.2mm 50 x 50_BPSK 6Mbps/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: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 38.25 dB

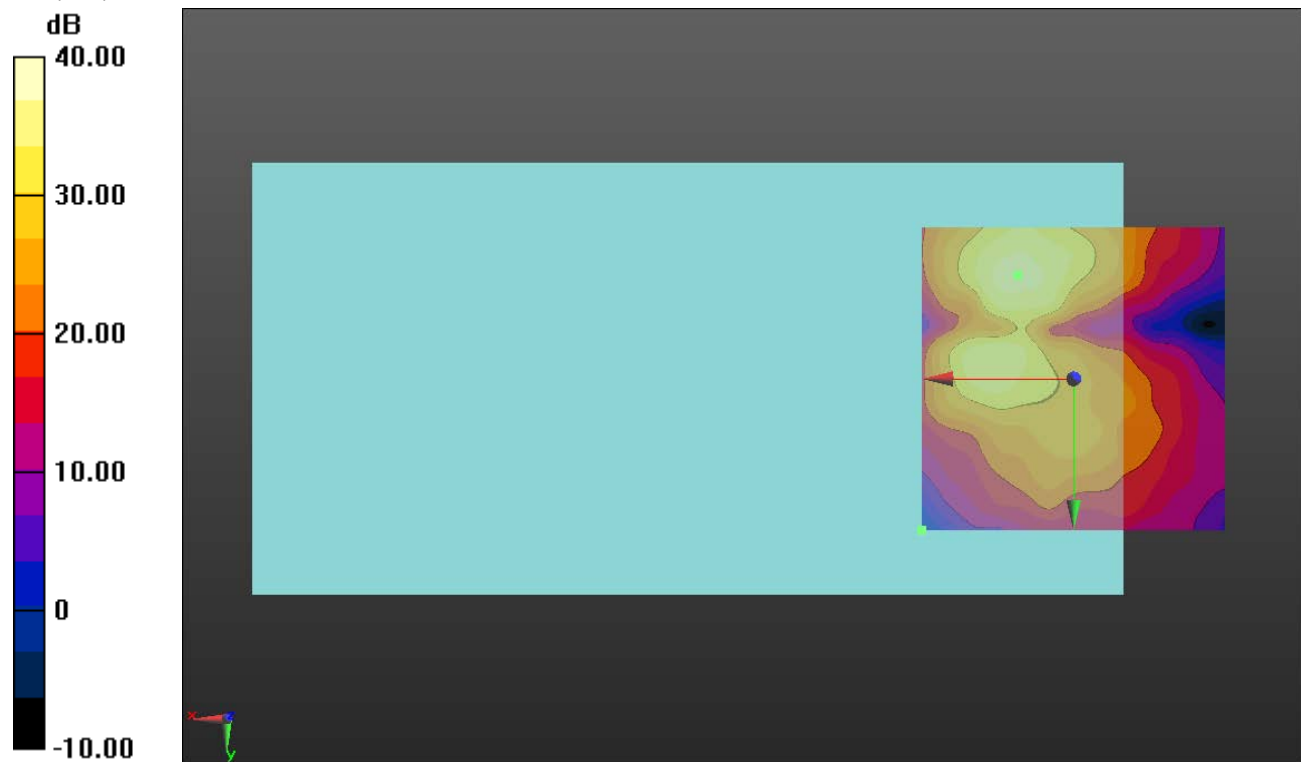
ABM1 comp = -4.05 dBA/m

BWC Factor = 0.16 dB

Location: 9.2, -17.1, 3.7 mm

ABM2 = -32.91 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5500 MHz; Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 100 20MHz BW EVS 5.9kbps_ANT 6/z (axial) wideband_BPSK 6Mbps/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: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

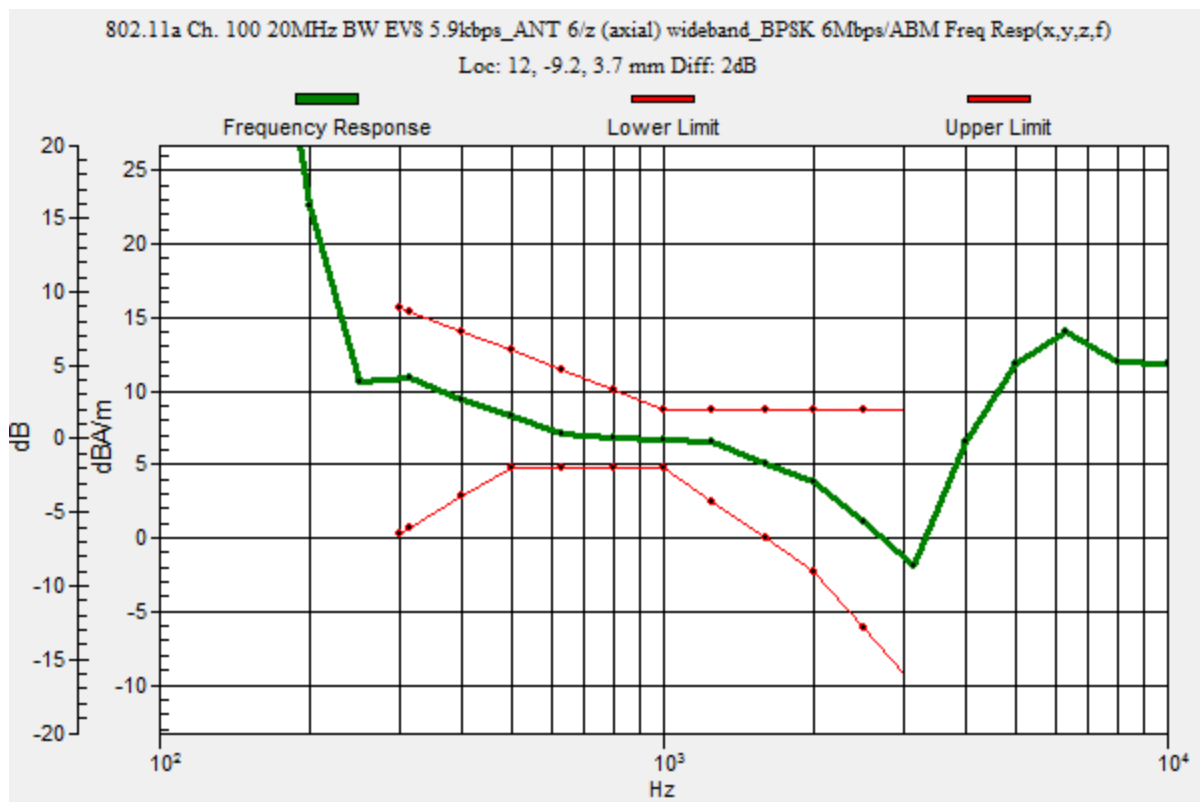
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 2.00 dB

BWC Factor = 10.80 dB

Location: 12, -9.2, 3.7 mm



802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 100 20MHz BW EVS
5.9kbps_ANT 6/z (axial) 4.2mm 50 x 50_BPSK 6Mbps/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: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.61 dB

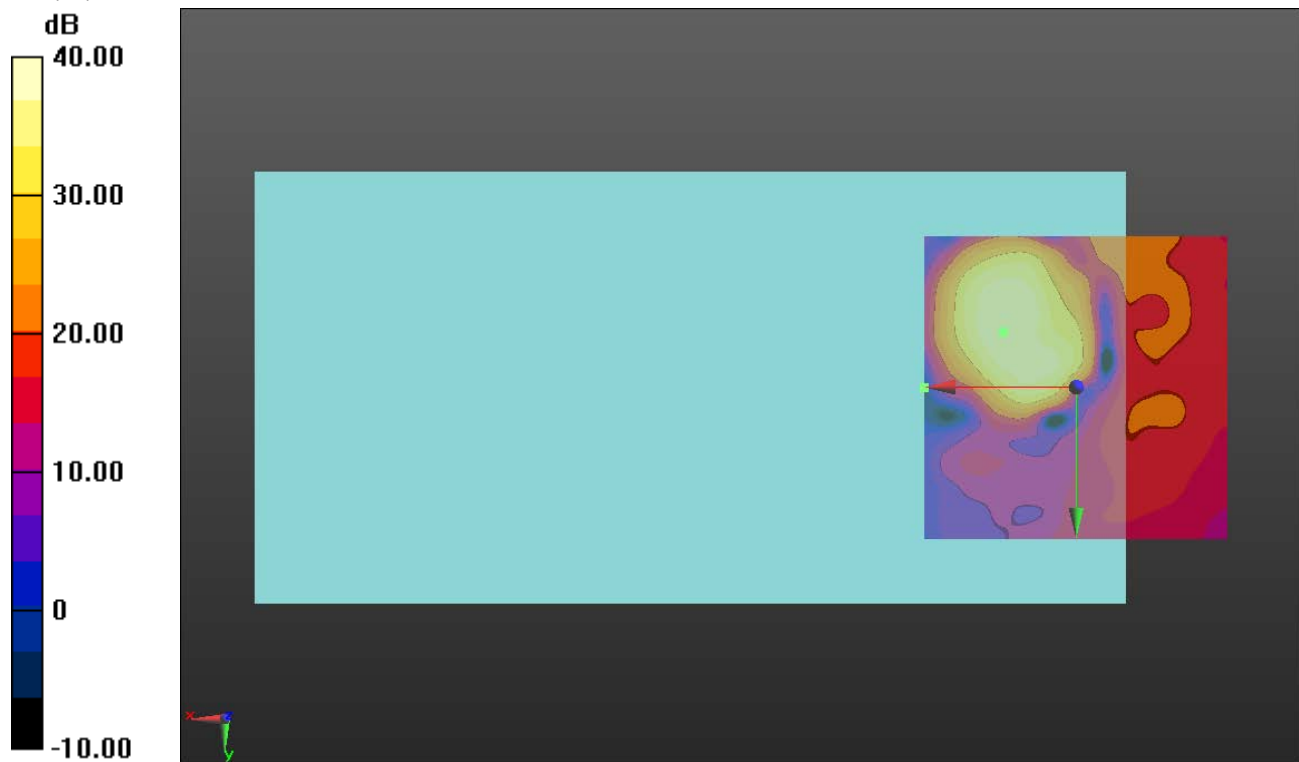
ABM1 comp = 5.19 dBA/m

BWC Factor = 0.16 dB

Location: 12.1, -9.2, 3.7 mm

ABM2 = -31.60 dBA/m

Location: 25, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5500 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7);SEMCAD X Version 14.6.10 (7164)

T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 100 20MHz BW EVS 5.9kbps_ ANT 6/y (transversal) 4.2mm 50 x 50_BPSK 6Mbps/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: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.62 dB

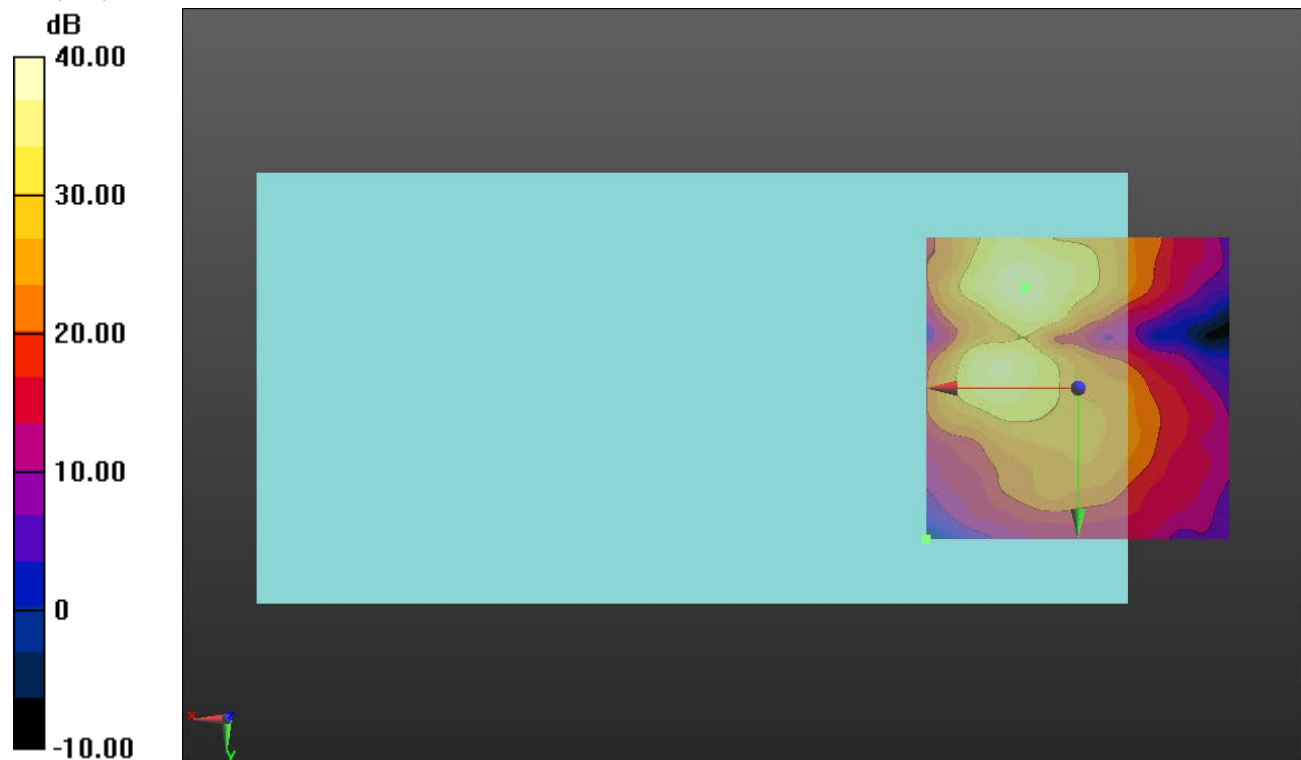
ABM1 comp = -3.13 dBA/m

BWC Factor = 0.16 dB

Location: 8.8, -16.7, 3.7 mm

ABM2 = -22.78 dBA/m

Location: 25, 25, 3.7 mm



0 dB = 1.000 = 0.00 dB

802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5745 MHz;Duty Cycle: 1:1

T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 149 20MHz BW EVS 5.9kbps_ANT 6/z (axial) wideband_BPSK 6Mbps/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: 29.75

Measure Window Start: 500ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

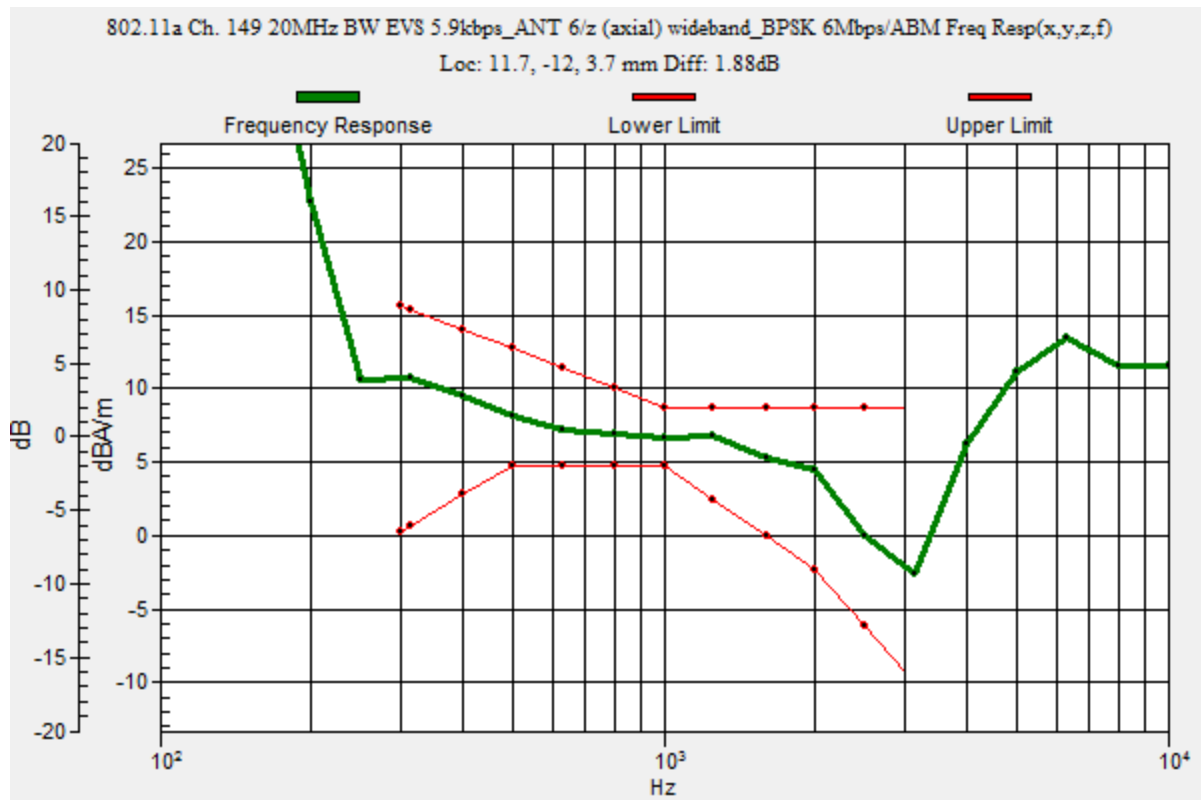
Category	Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels]
Category T1	0 dB to 10 dB
Category T2	10 dB to 20 dB
Category T3	20 dB to 30 dB
Category T4	> 30 dB

Cursor:

Diff = 1.88 dB

BWC Factor = 10.80 dB

Location: 11.7, -12, 3.7 mm



802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 149 20MHz BW EVS
5.9kbps_ANT 6/z (axial) 4.2mm 50 x 50_BPSK 6Mbps/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: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 40.43 dB

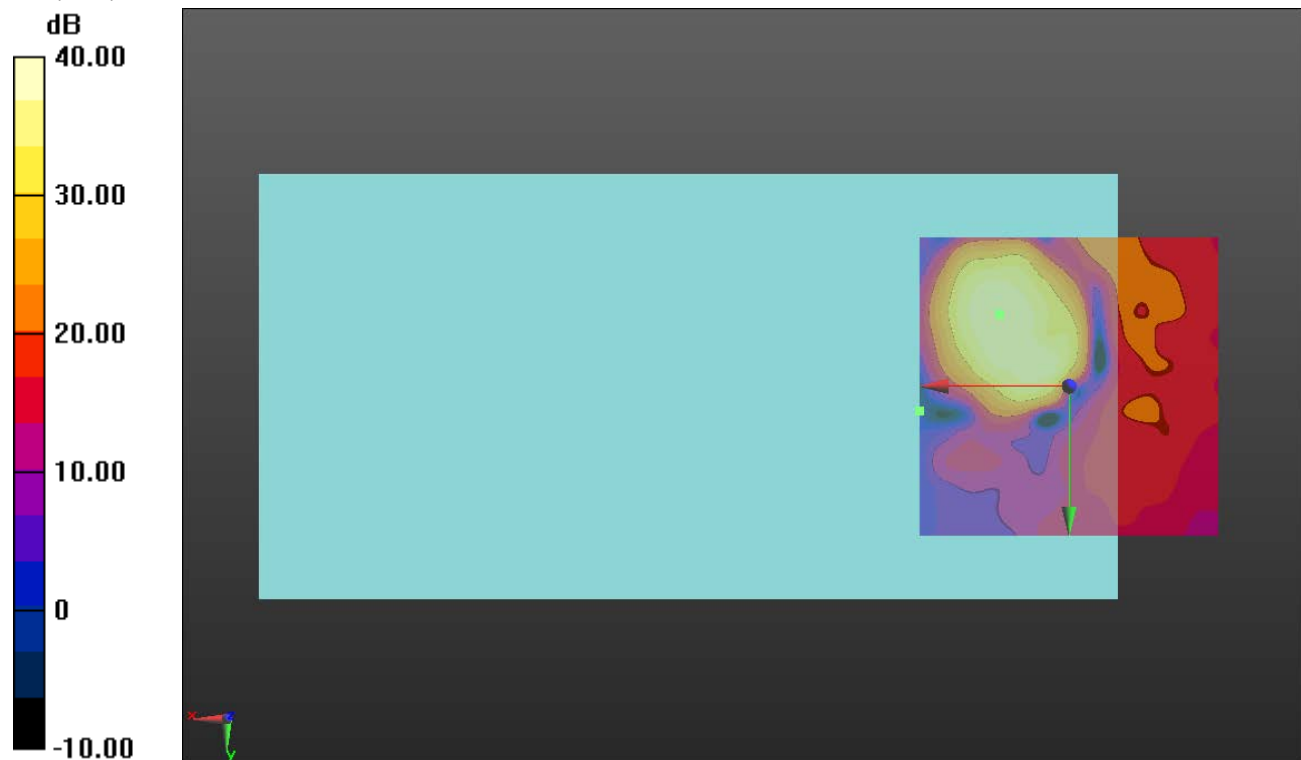
ABM1 comp = 4.86 dBA/m

BWC Factor = 0.16 dB

Location: 11.7, -12.1, 3.7 mm

ABM2 = -31.61 dBA/m

Location: 25, 4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

802.11a

Communication System: UID 0, @IEEE 802.11a/n/ac 5 GHz Band (0); Frequency: 5745 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/15/2019
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1540; Calibrated: 2/18/2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BB
- Measurement SW: DASY52, Version 52.8 (7); SEMCAD X Version 14.6.10 (7164)

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/802.11a Ch. 149 20MHz BW EVS
5.9kbps_ANT 6/y (transversal) 4.2mm 50 x 50_BPSK 6Mbps/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: 15.17

Measure Window Start: 500ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 39.91 dB

ABM1 comp = -2.81 dBA/m

BWC Factor = 0.16 dB

Location: 8.3, -17.1, 3.7 mm

ABM2 = -32.13 dBA/m

Location: 25, 25, 3.7 mm

