

**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)/General Scans ch 190/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

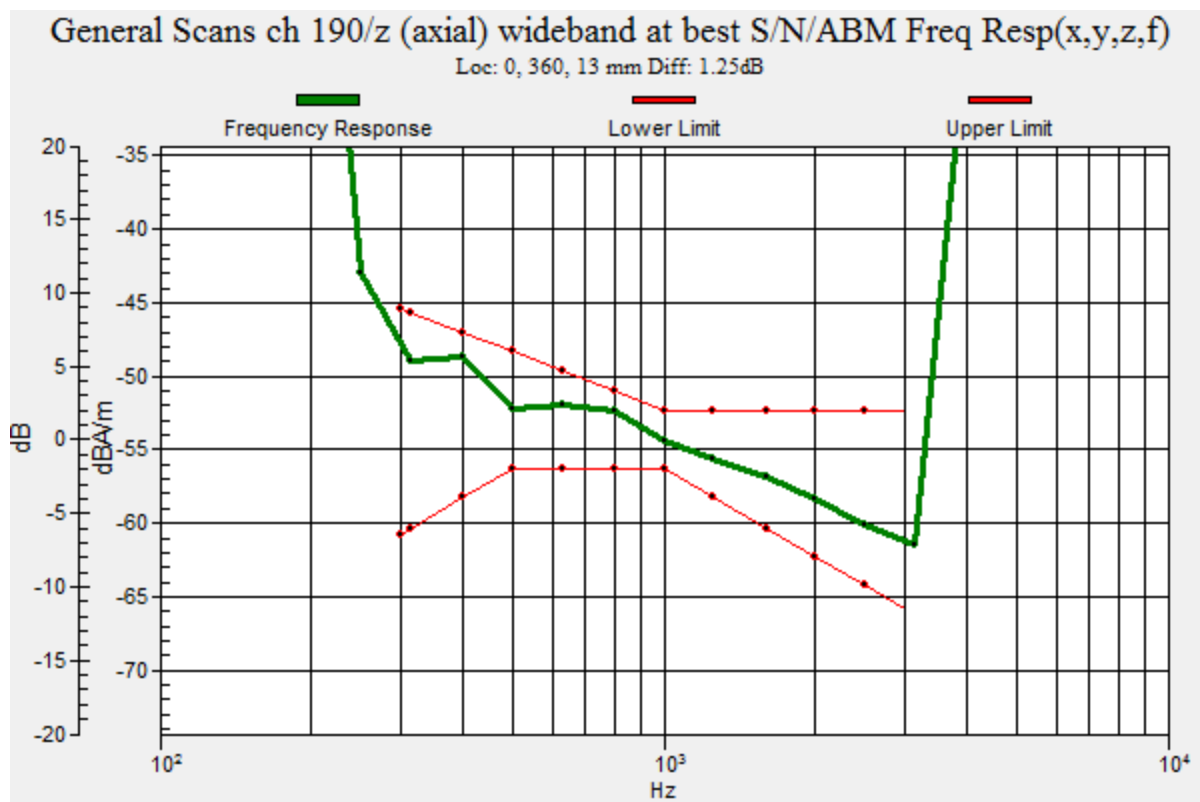
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                     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

**Cursor:**

Diff = 1.25 dB

BWC Factor = 10.80 dB

Location: 0, 360, 13 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 190/z (axial)

**4.2mm 50 x 50/ABM SNR Category(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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

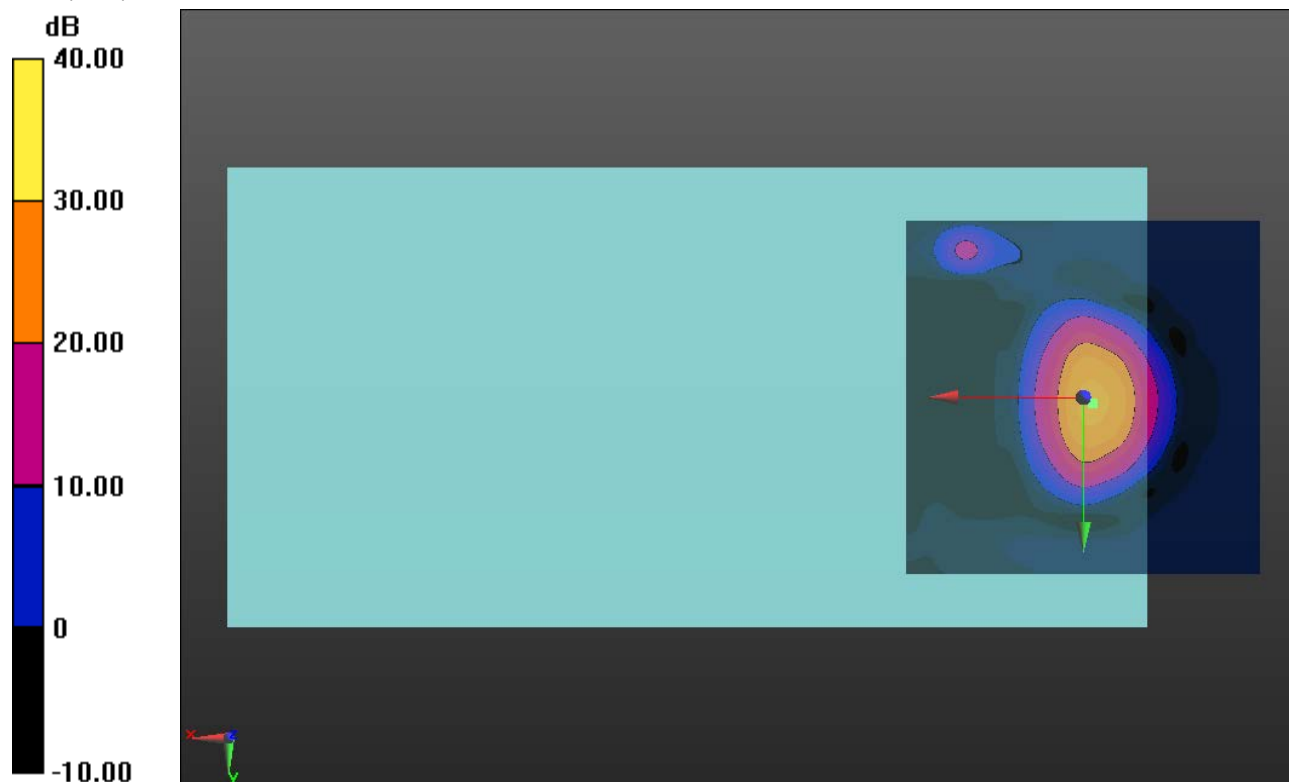
#### Cursor:

ABM1/ABM2 = 27.74 dB

ABM1 comp = 14.09 dBA/m

BWC Factor = 0.16 dB

Location: -1.2, 0.8, 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 190/y (transversal) 4.2mm 50 x 50/ABM SNR Category(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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

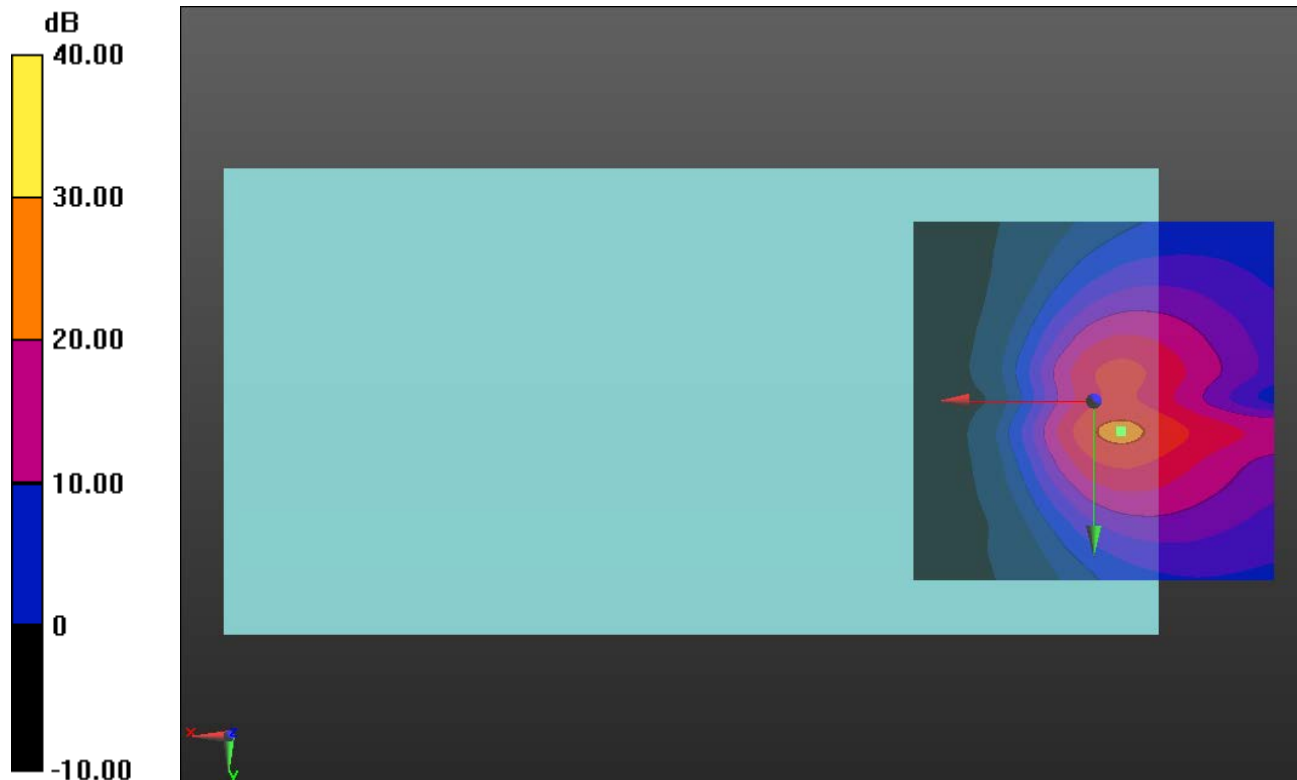
### Cursor:

ABM1/ABM2 = 20.76 dB

ABM1 comp = -0.78 dBA/m

BWC Factor = 0.16 dB

Location: -3.7, 4.2, 3.7 mm



**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)/General Scans ch 661/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

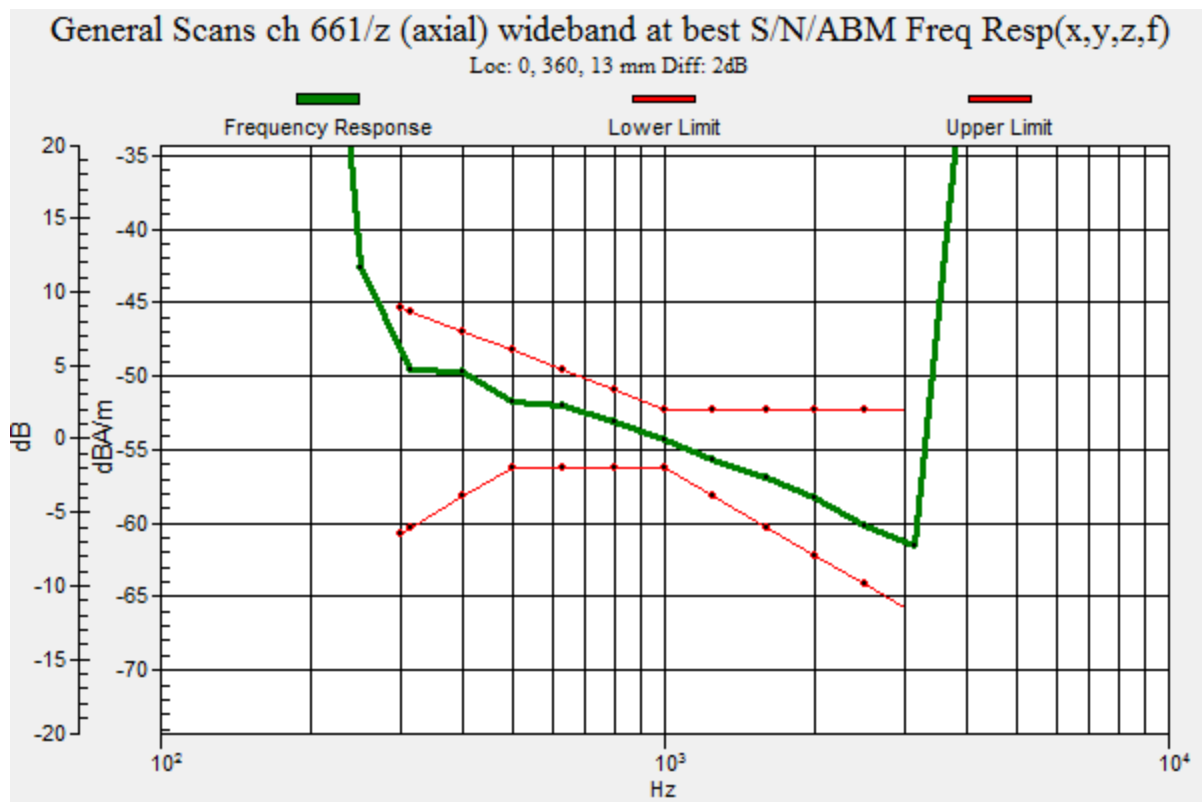
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 661/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

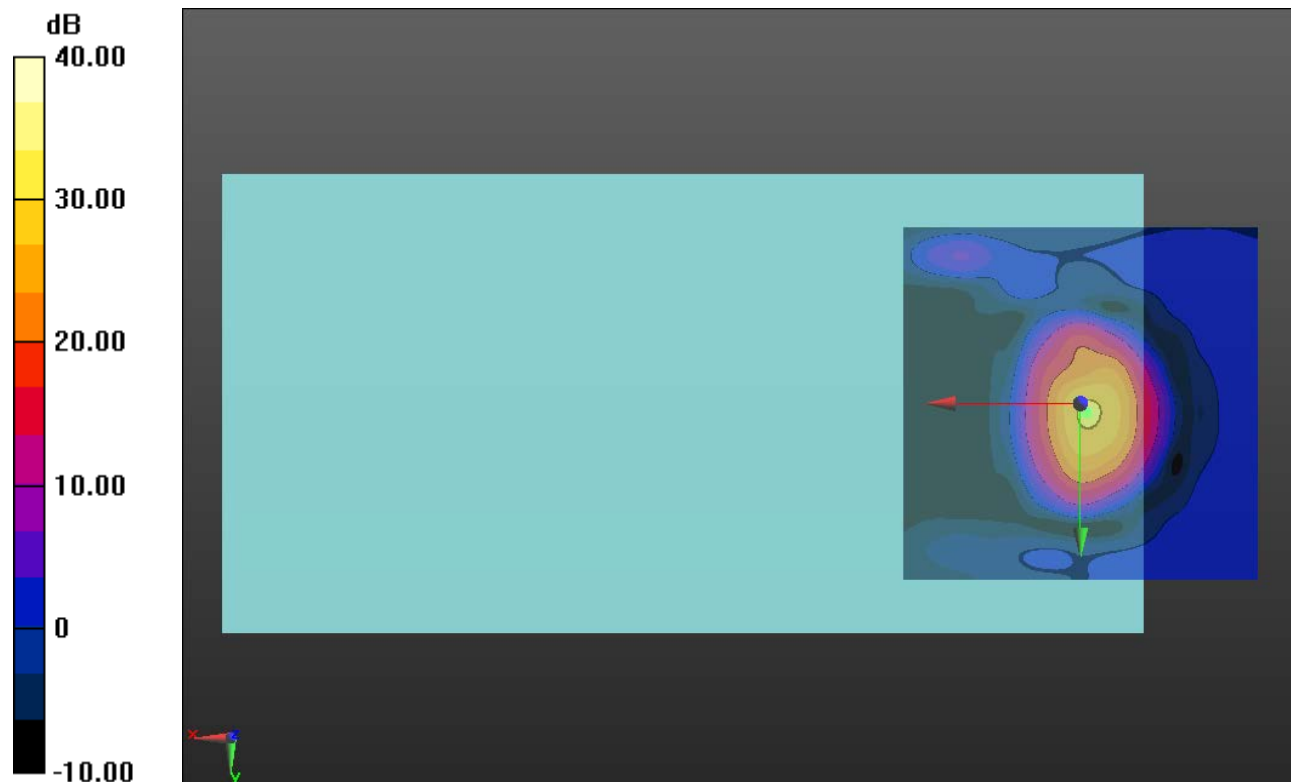
#### Cursor:

ABM1/ABM2 = 30.57 dB

ABM1 comp = 14.26 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, 1.2, 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 661/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

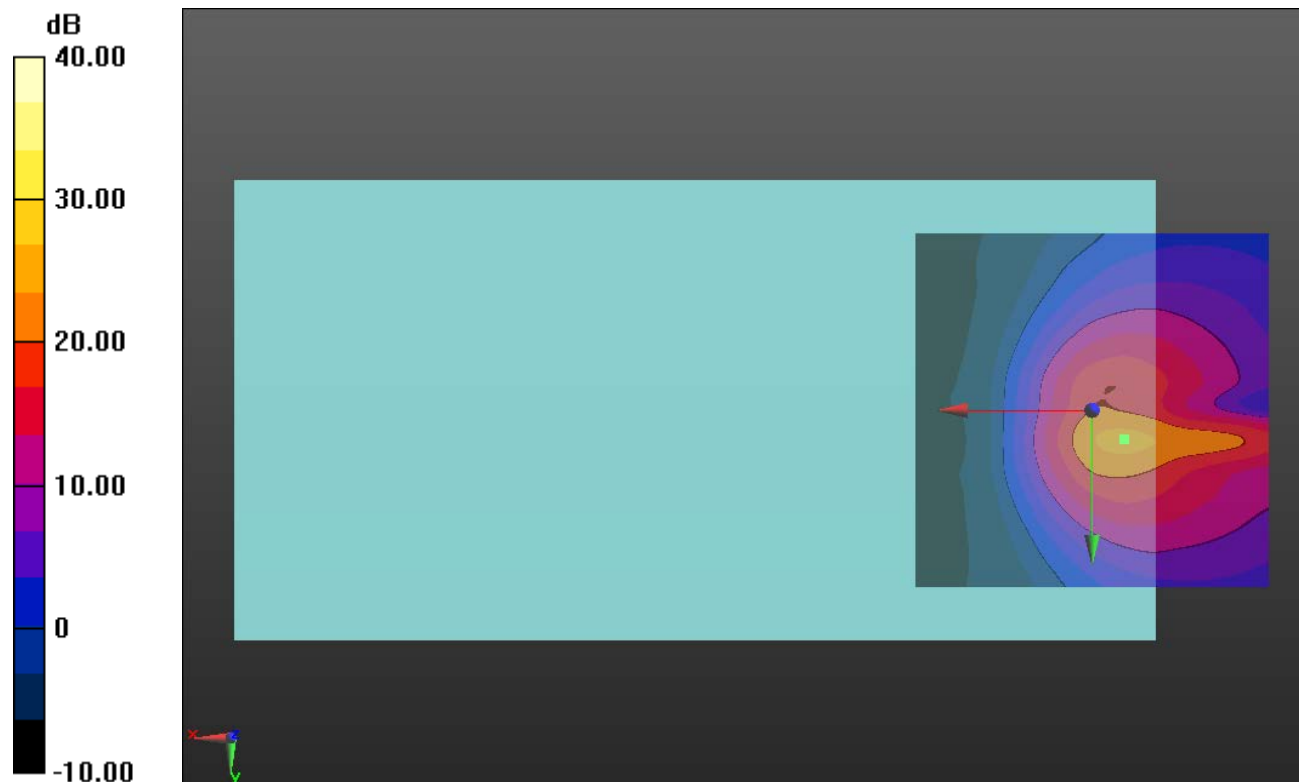
#### Cursor:

ABM1/ABM2 = 24.49 dB

ABM1 comp = -4.54 dBA/m

BWC Factor = 0.16 dB

Location: -4.6, 4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

## W-CDMA Band II

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)/General Scans ch 9400/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

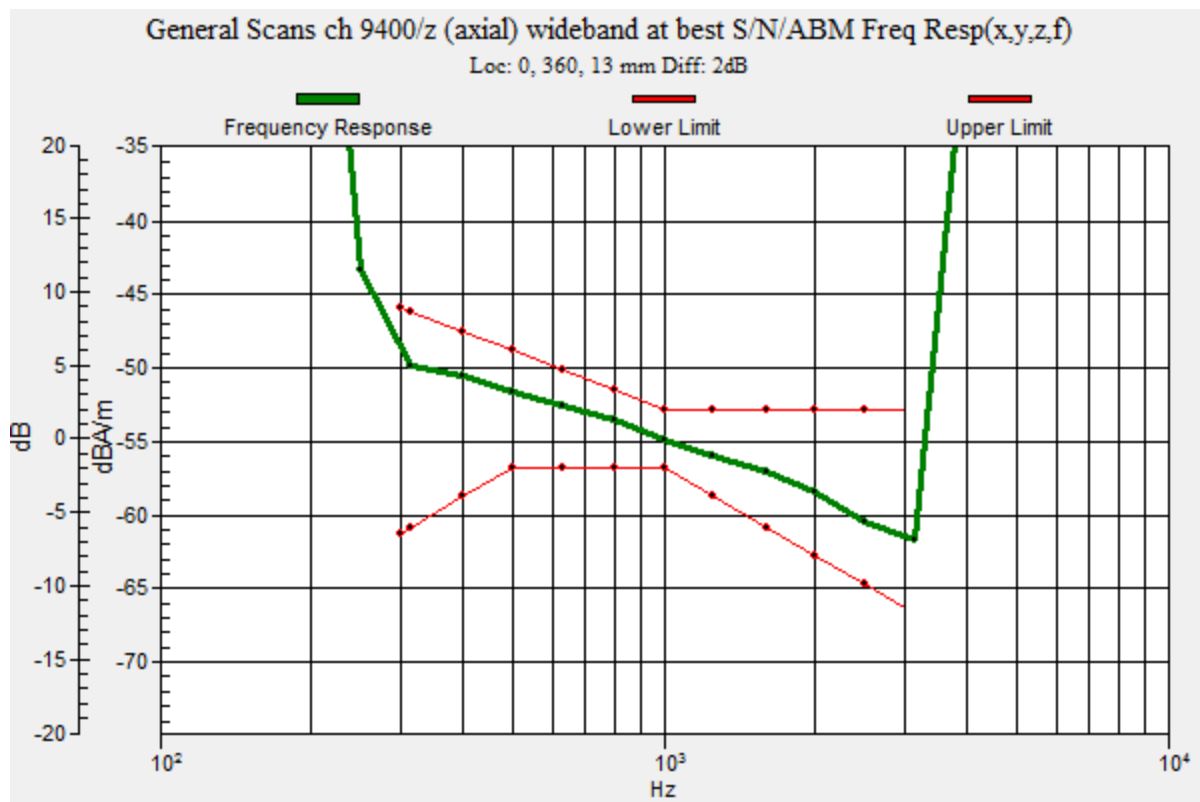
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 mm



## W-CDMA Band II

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 9400/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

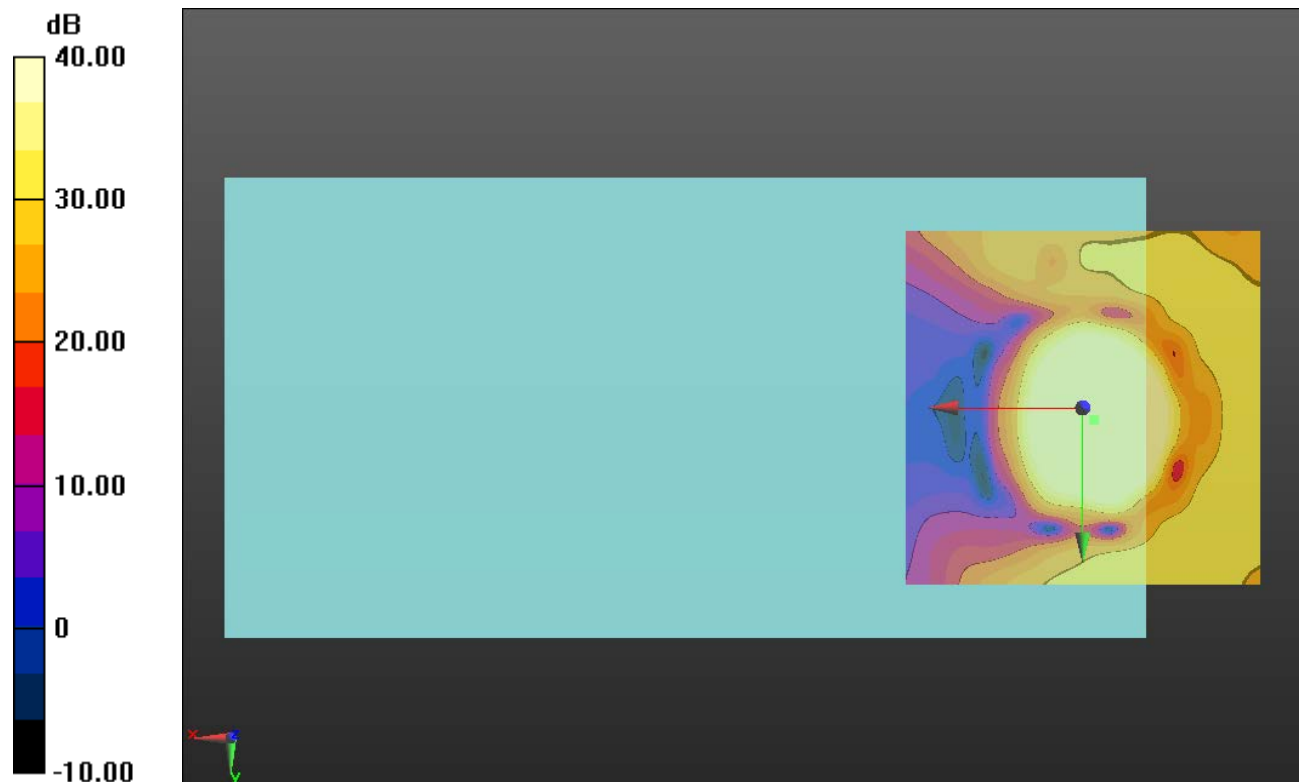
#### Cursor:

ABM1/ABM2 = 55.37 dB

ABM1 comp = 13.78 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 1.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

## W-CDMA Band II

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 9400/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

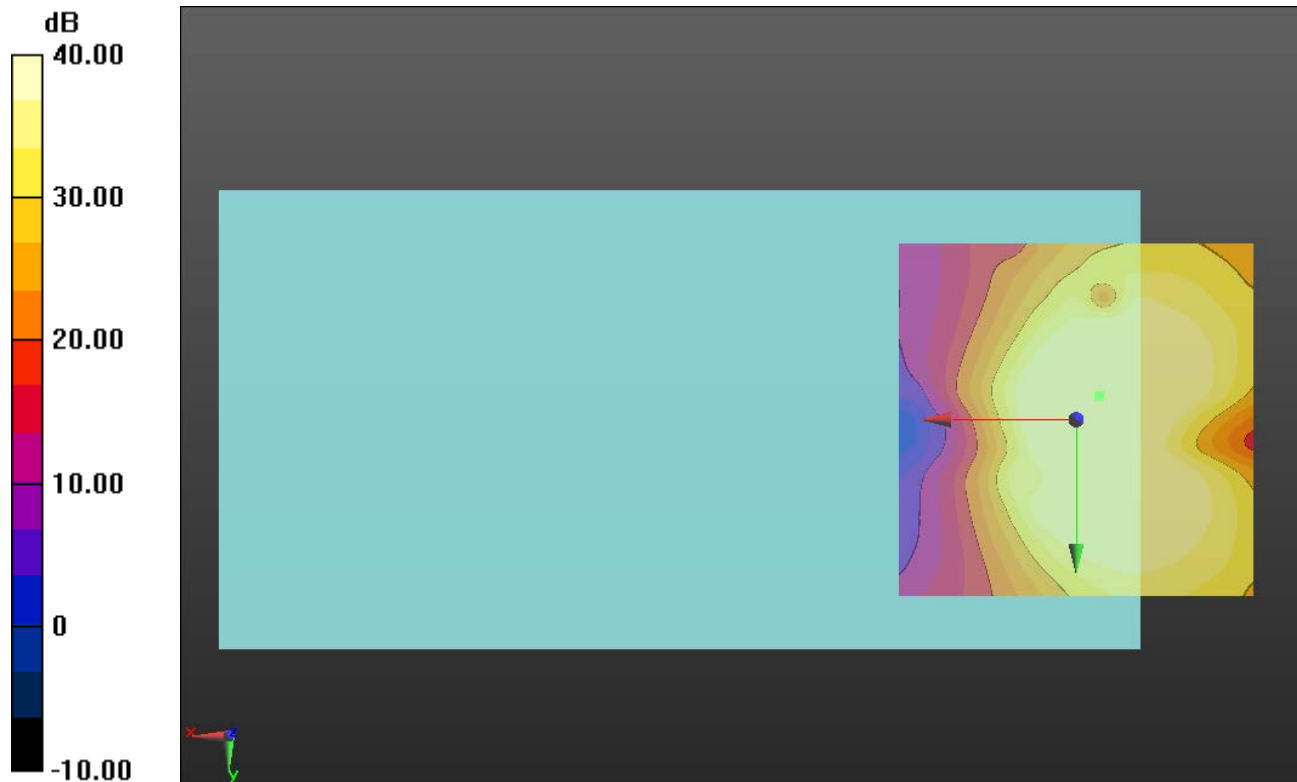
#### Cursor:

ABM1/ABM2 = 49.69 dB

ABM1 comp = 3.70 dBA/m

BWC Factor = 0.16 dB

Location: -3.3, -3.3, 3.7 mm



## W-CDMA Band IV

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)/General Scans ch 1413/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

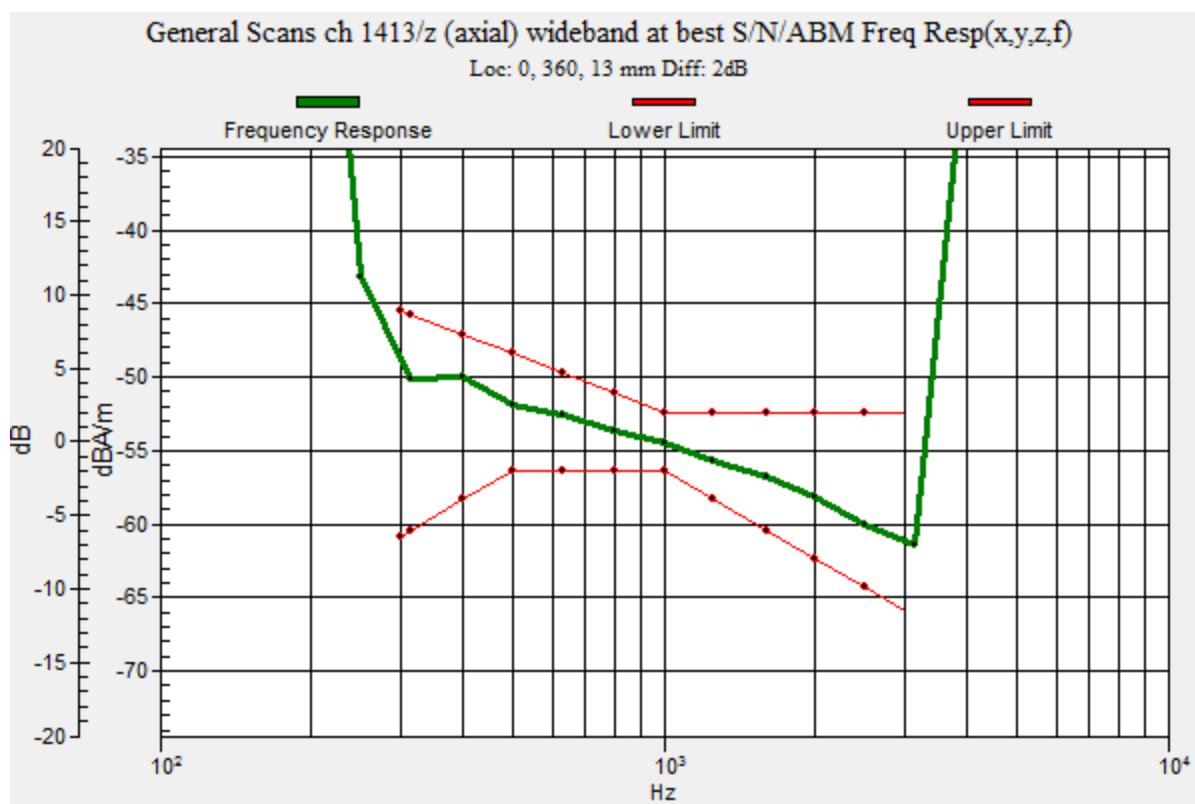
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 mm



## W-CDMA Band IV

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 1413/z (axial)

**4.2mm 50 x 50/ABM SNR Category(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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

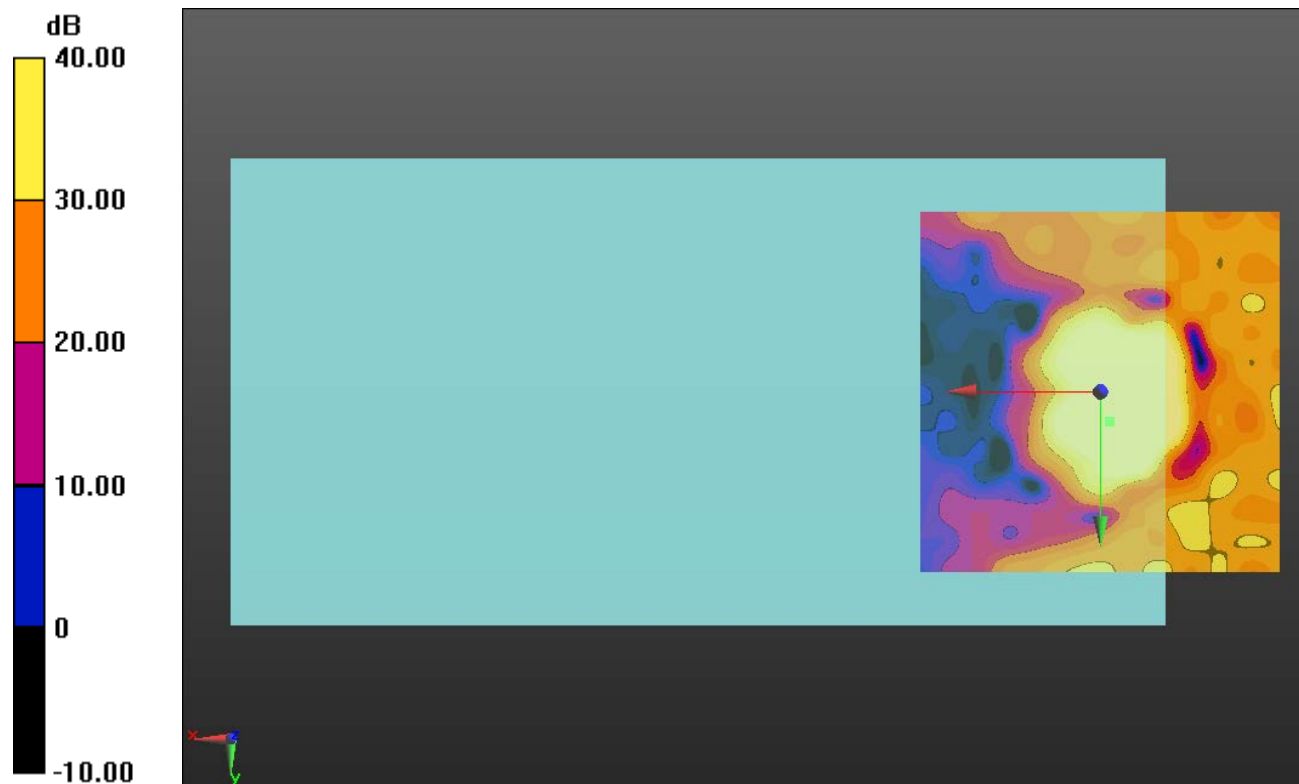
#### Cursor:

ABM1/ABM2 = 52.77 dB

ABM1 comp = 13.10 dBA/m

BWC Factor = 0.16 dB

Location: -1.2, 4.2, 3.7 mm



## W-CDMA Band IV

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 1413/y (transversal) 4.2mm 50 x 50/ABM SNR Category(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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

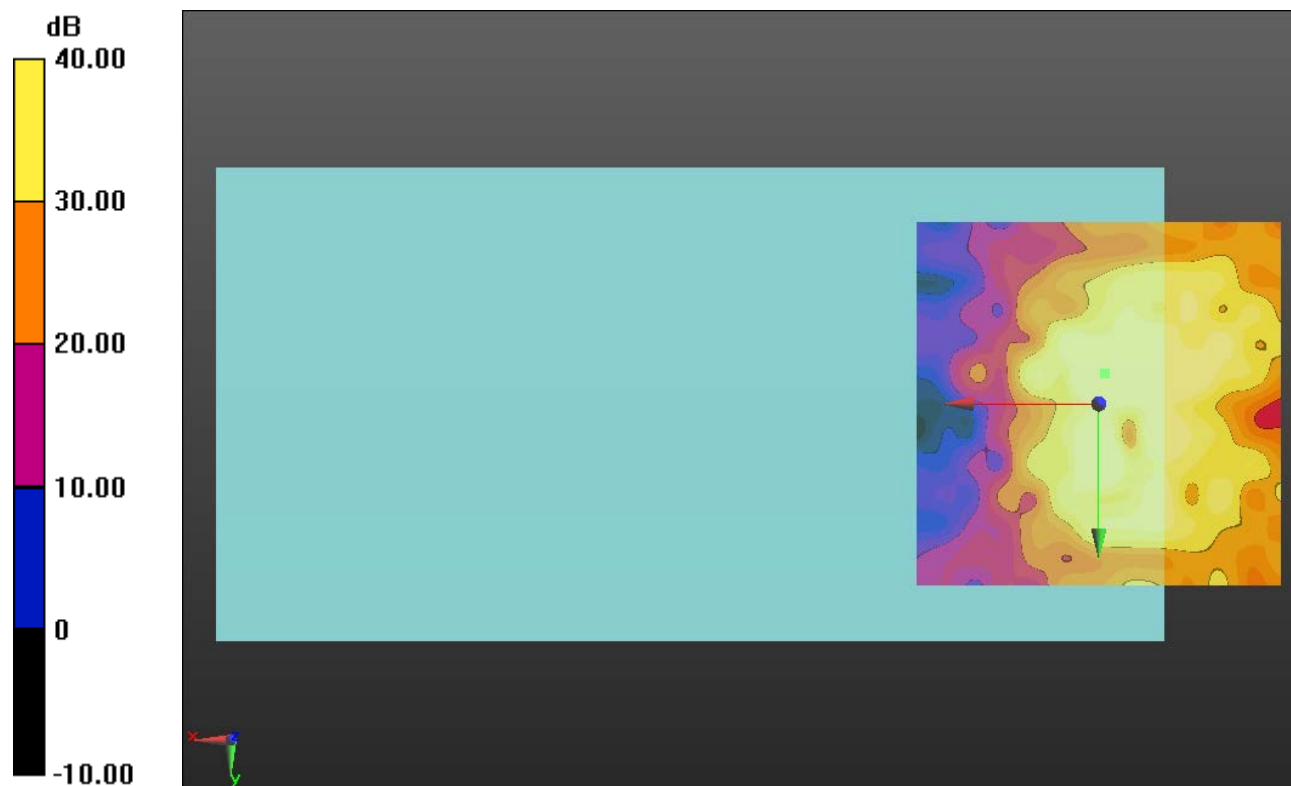
### Cursor:

ABM1/ABM2 = 49.88 dB

ABM1 comp = 5.76 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, -4.2, 3.7 mm



## W-CDMA Band V

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)/General Scans ch 4183/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

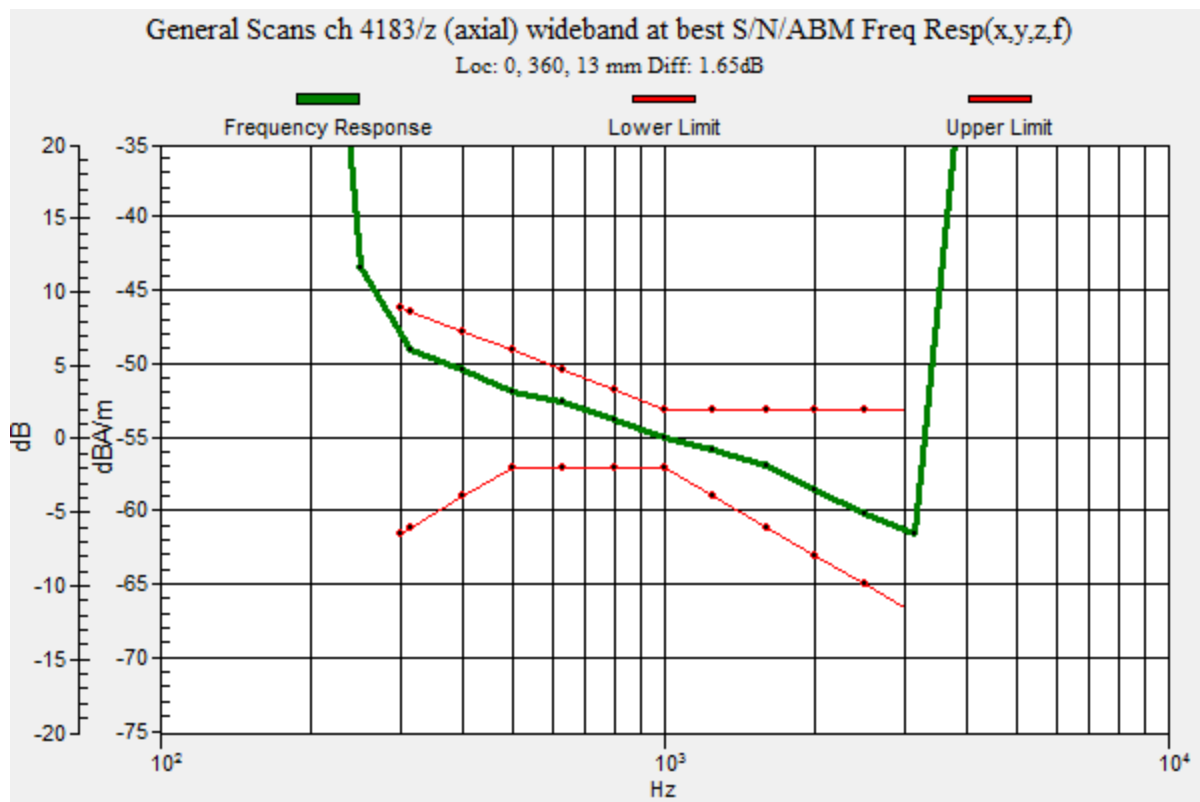
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                     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

#### Cursor:

Diff = 1.65 dB

BWC Factor = 10.80 dB

Location: 0, 360, 13 mm



## W-CDMA Band V

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 4183/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

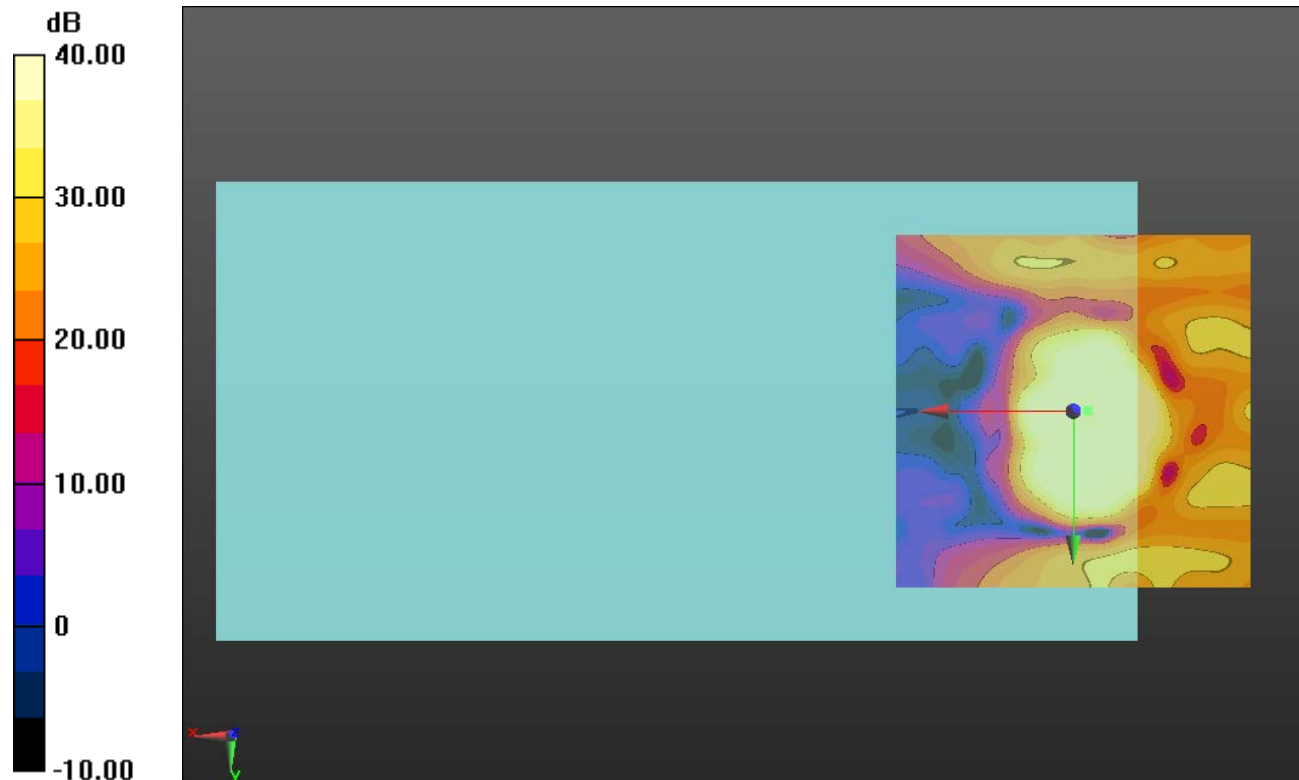
#### Cursor:

ABM1/ABM2 = 52.88 dB

ABM1 comp = 12.83 dBA/m

BWC Factor = 0.16 dB

Location: -2.1, 0, 3.7 mm



0 dB = 1.000 = 0.00 dB

## W-CDMA Band V

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 4183/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

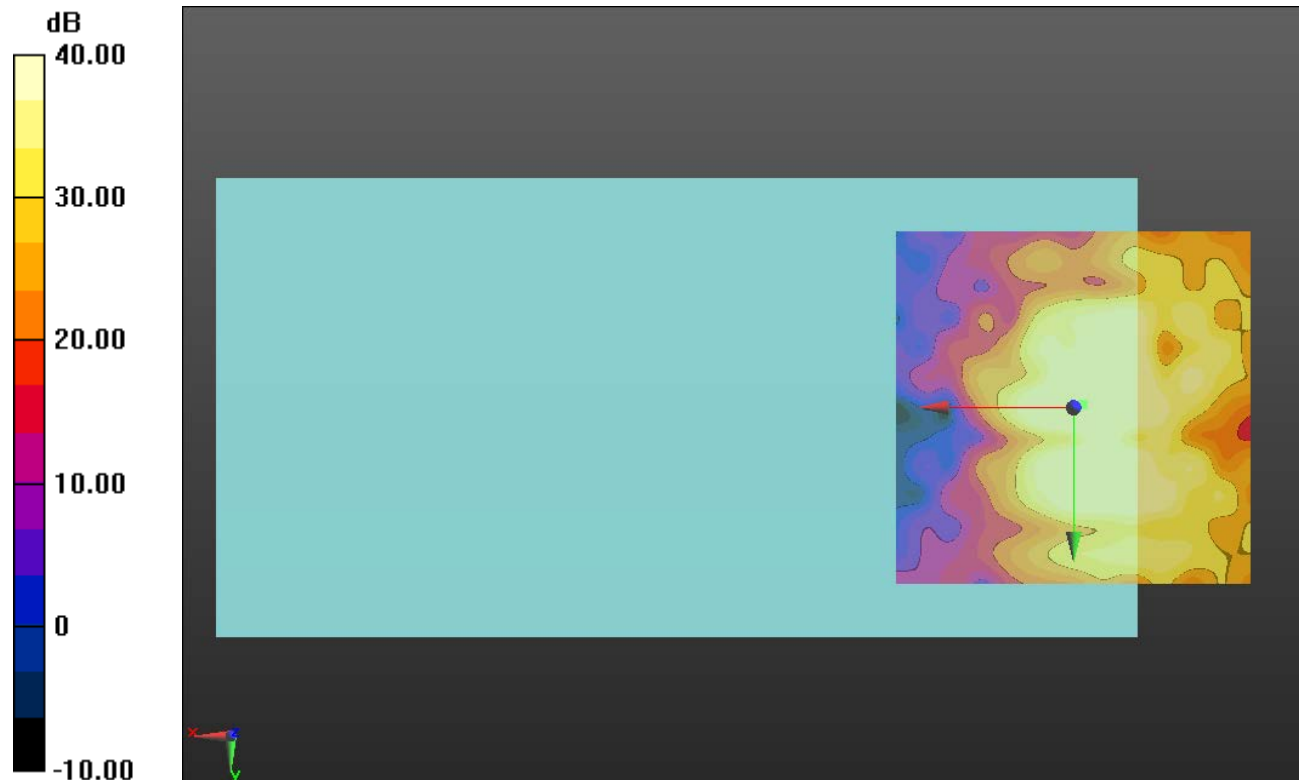
#### Cursor:

ABM1/ABM2 = 48.55 dB

ABM1 comp = 0.36 dBA/m

BWC Factor = 0.16 dB

Location: -1.2, -0.4, 3.7 mm



## LTE Band 2

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

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/General Scans ch 18900/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

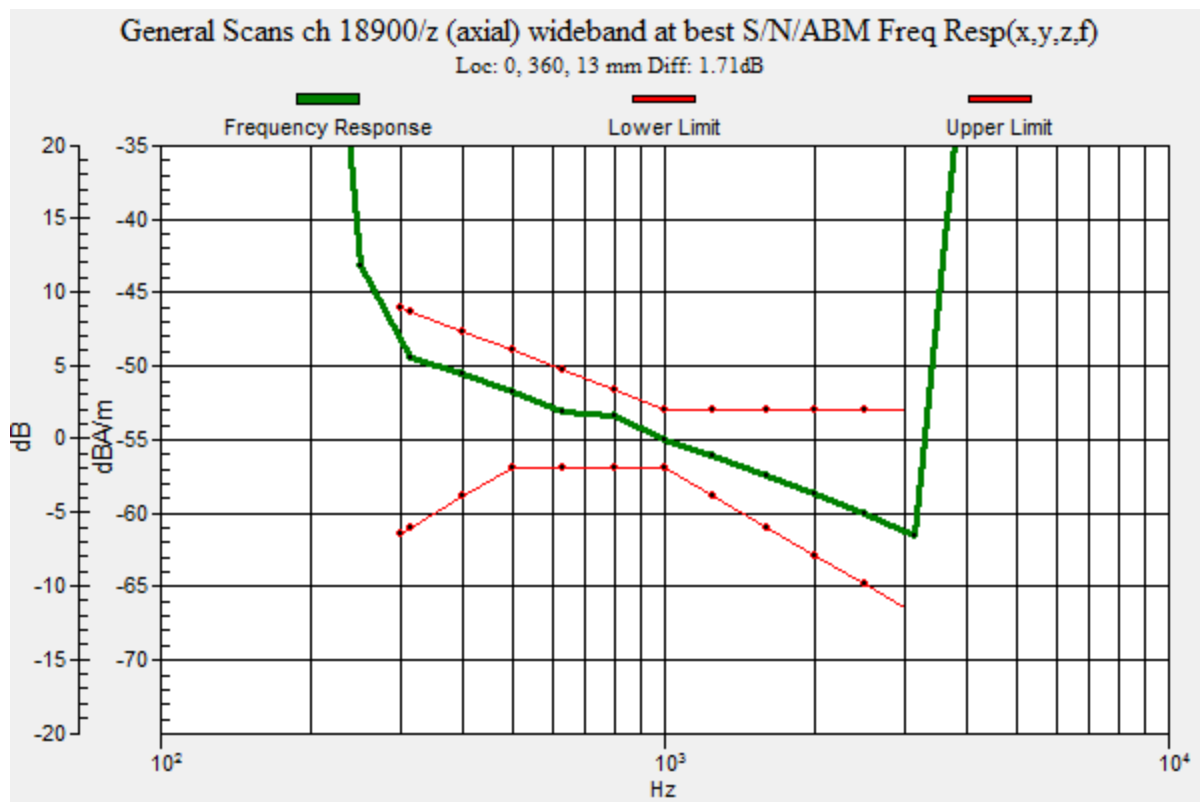
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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: 0, 360, 13 mm



## LTE Band 2

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 18900/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

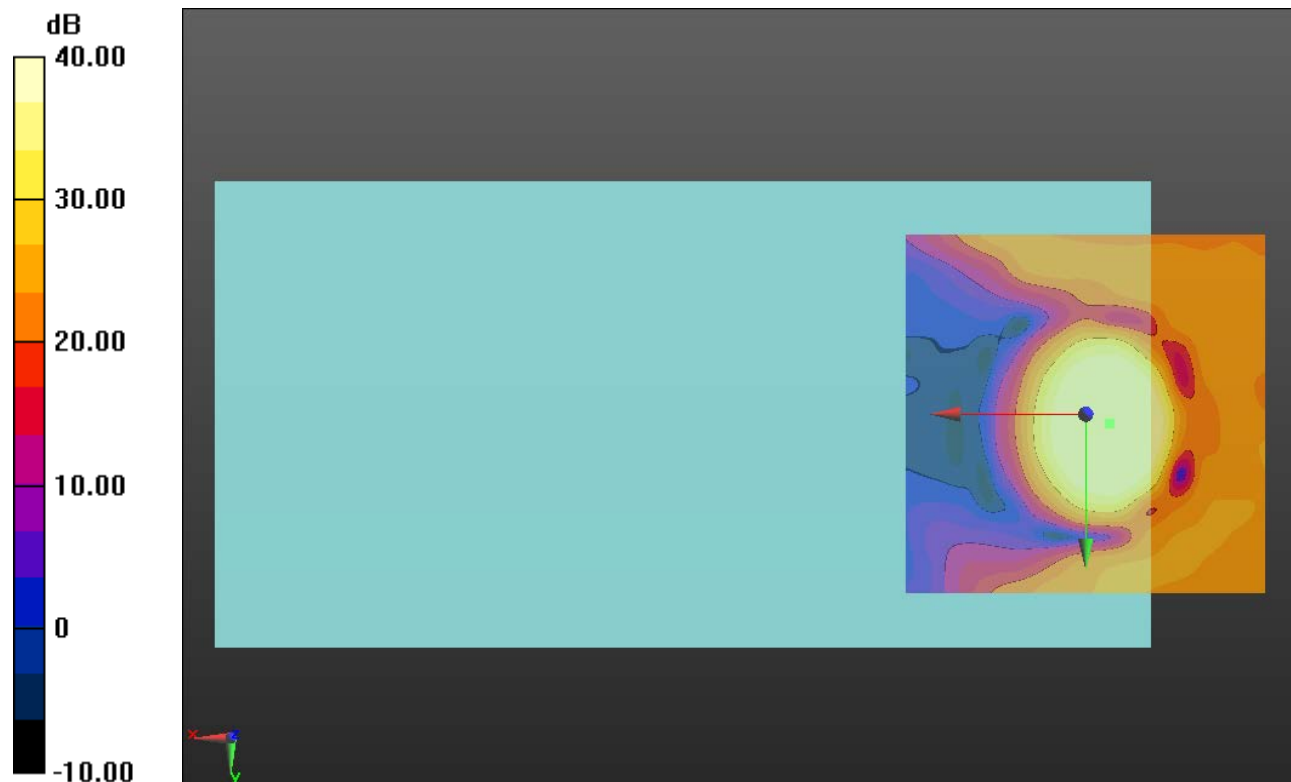
#### Cursor:

ABM1/ABM2 = 47.00 dB

ABM1 comp = 8.17 dBA/m

BWC Factor = 0.16 dB

Location: -3.3, 1.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 2

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 18900/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

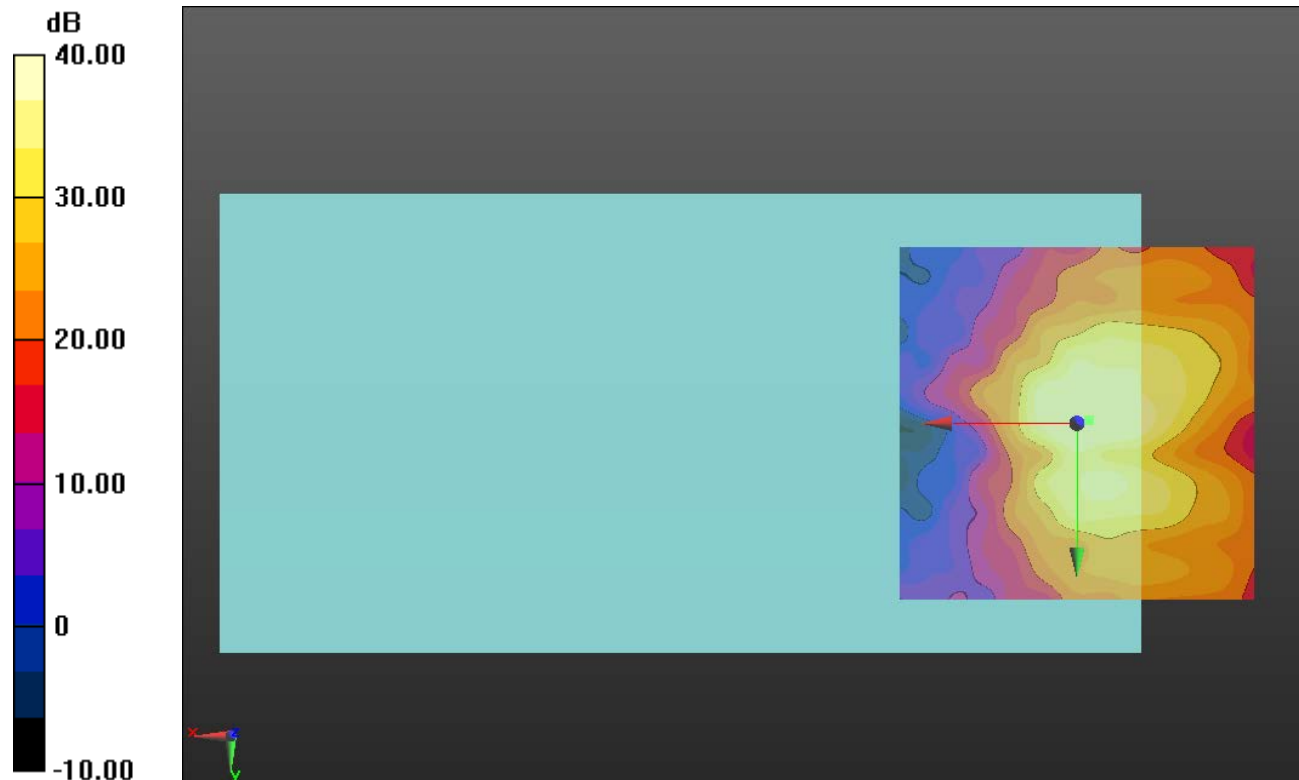
#### Cursor:

ABM1/ABM2 = 43.67 dB

ABM1 comp = -3.42 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, -0.4, 3.7 mm



## LTE Band 4

Communication System: UID 0, LTE (FDD) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/General Scans ch 20175/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

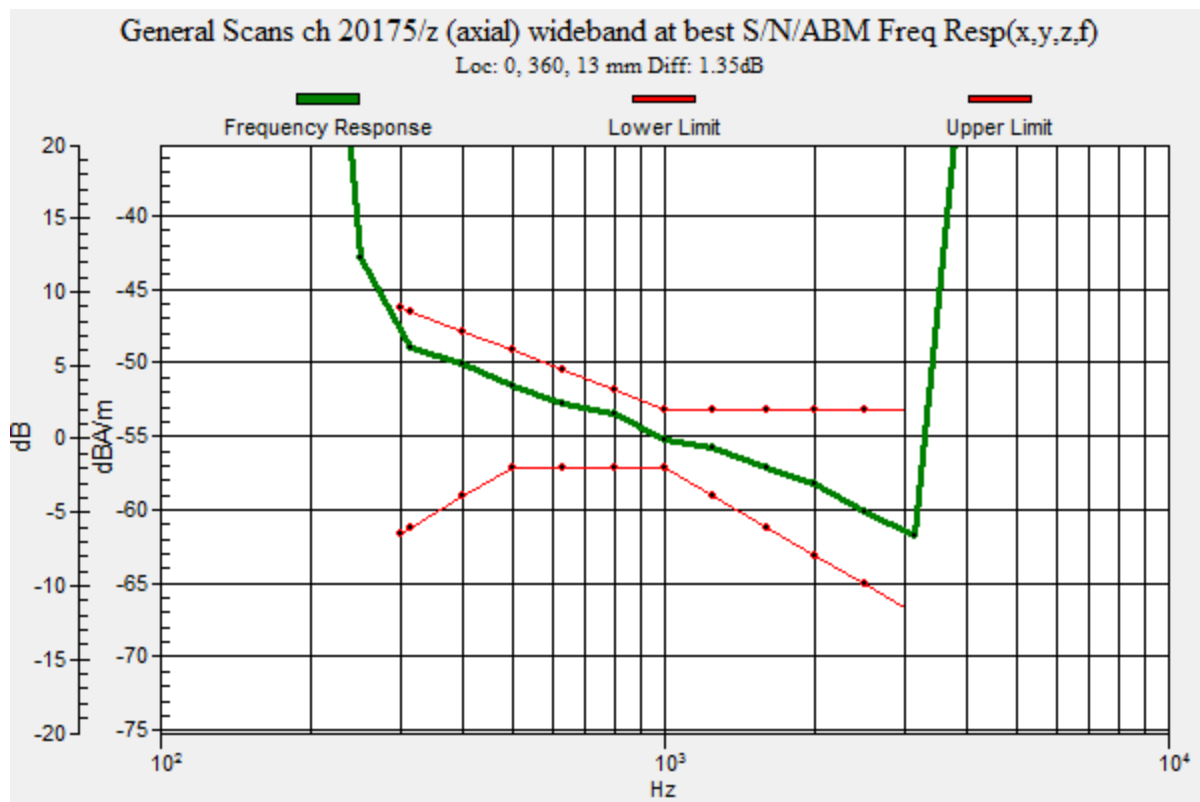
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                     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

#### Cursor:

Diff = 1.35 dB

BWC Factor = 10.80 dB

Location: 0, 360, 13 mm



## LTE Band 4

Communication System: UID 0, LTE (FDD) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 20175/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

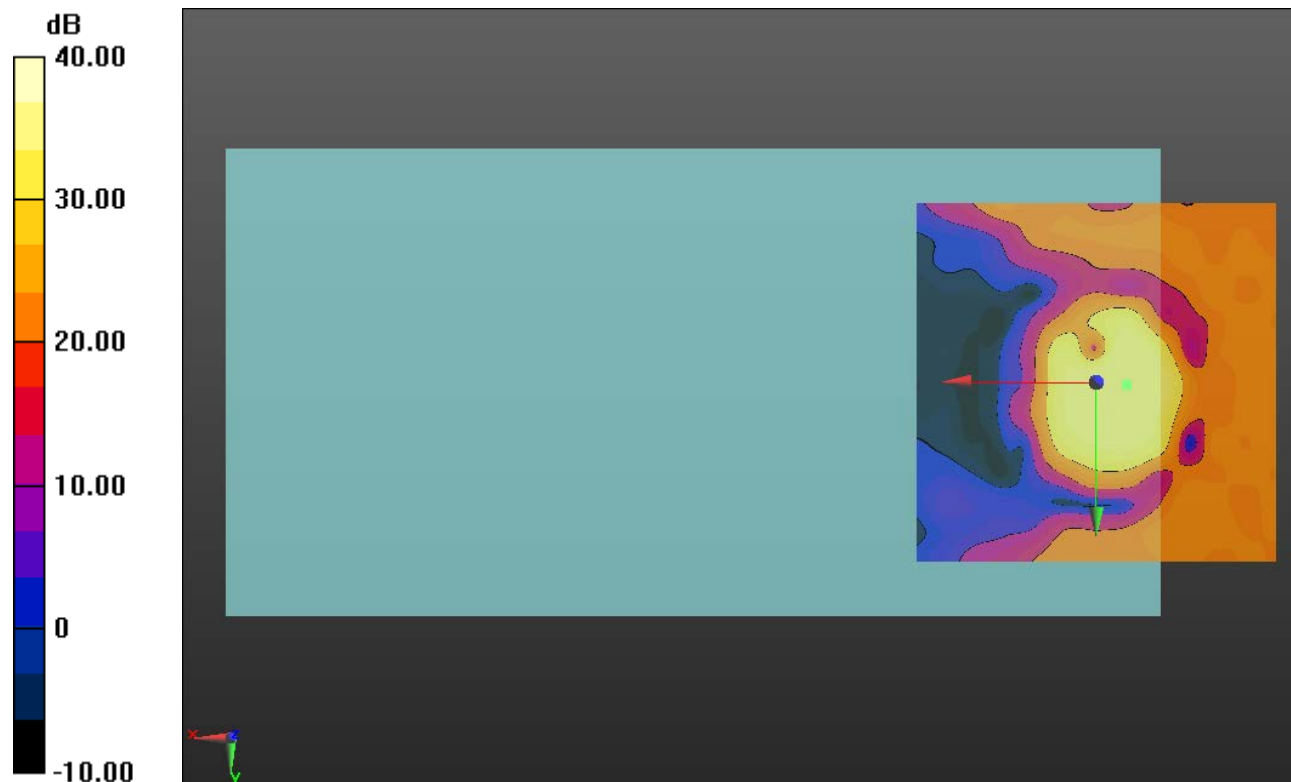
#### Cursor:

ABM1/ABM2 = 46.72 dB

ABM1 comp = 6.30 dBA/m

BWC Factor = 0.16 dB

Location: -4.2, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 4

Communication System: UID 0, LTE (FDD) (0); Frequency: 1732.5 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 20175/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB40.35

Device Reference Point: 0, 0, -6.3 mm

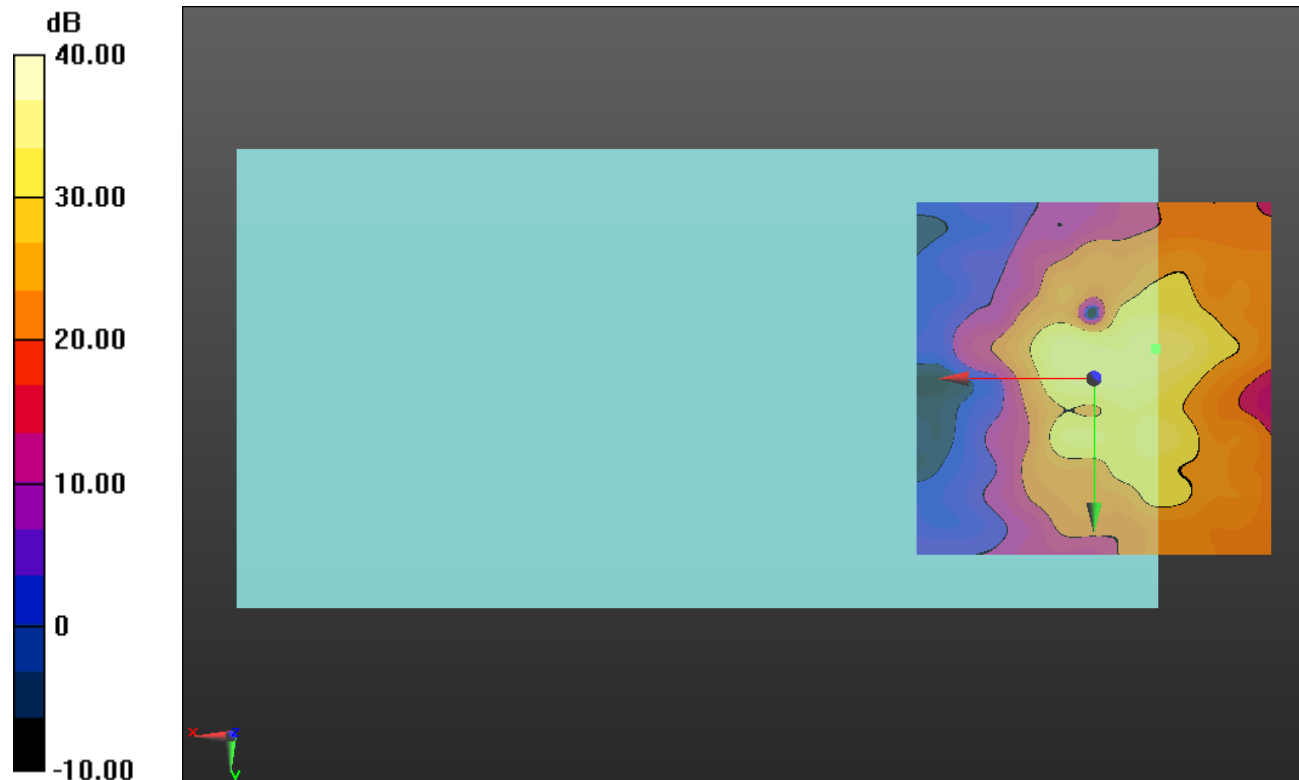
#### Cursor:

ABM1/ABM2 = 40.35 dB

ABM1 comp = -5.87 dBA/m

BWC Factor = 0.16 dB

Location: -8.7, -4.2, 3.7 mm



## LTE Band 5

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)/General Scans ch 20525/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

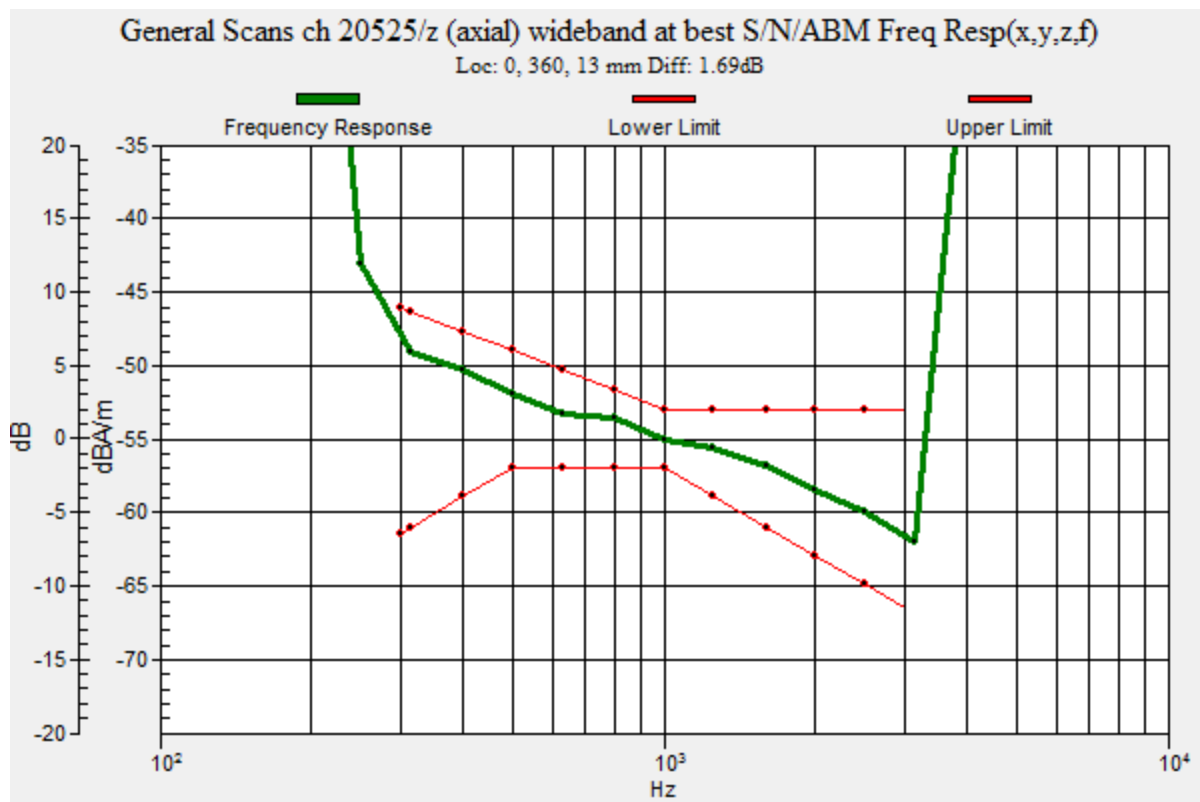
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                     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

#### Cursor:

Diff = 1.69 dB

BWC Factor = 10.80 dB

Location: 0, 360, 13 mm



## LTE Band 5

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 20525/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

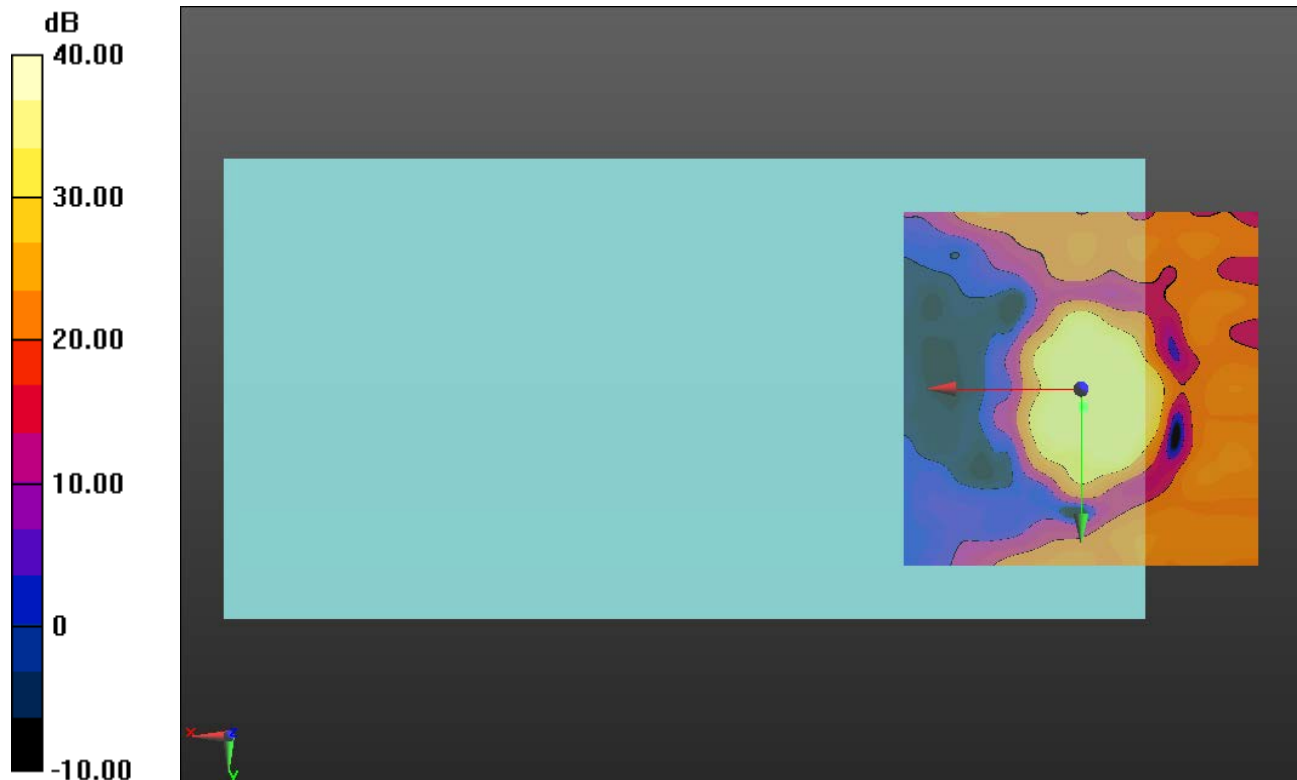
#### Cursor:

ABM1/ABM2 = 46.90 dB

ABM1 comp = 11.45 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 2.5, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 5

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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 20525/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

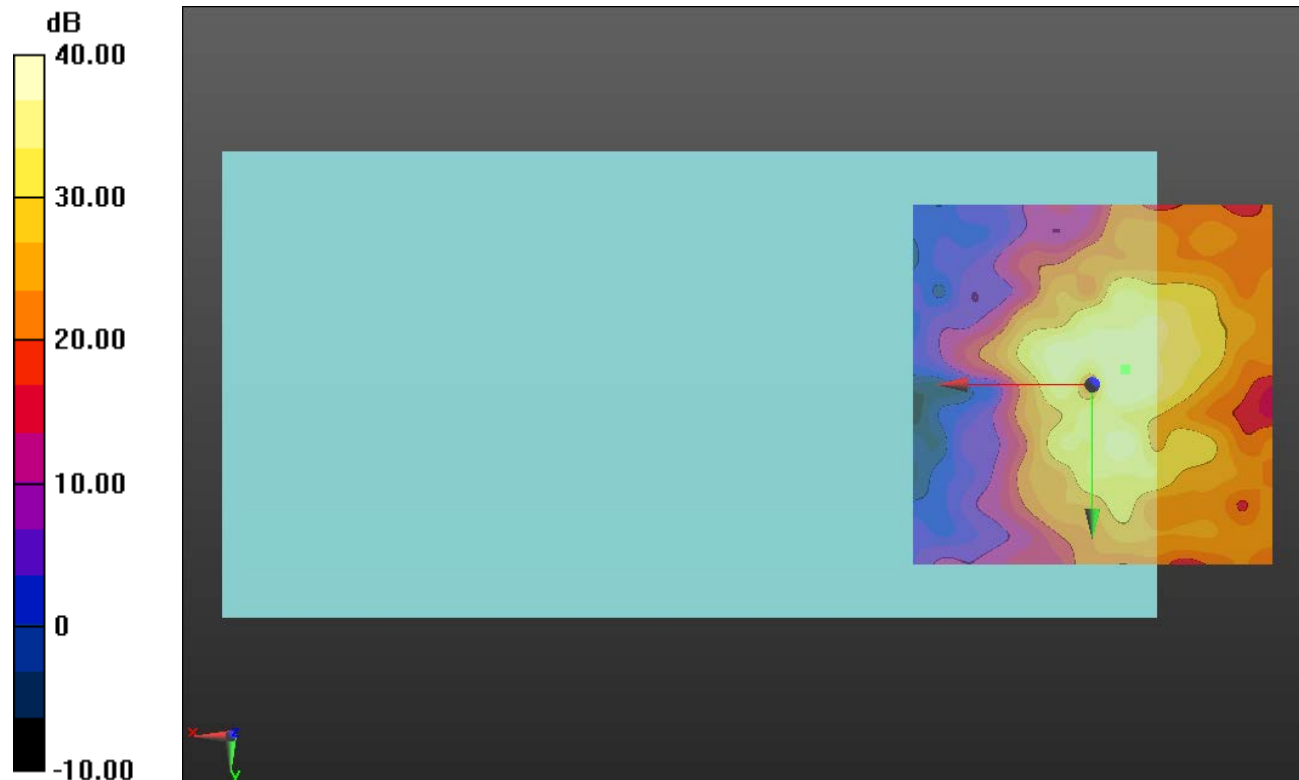
#### Cursor:

ABM1/ABM2 = 43.35 dB

ABM1 comp = -3.66 dBA/m

BWC Factor = 0.16 dB

Location: -4.6, -2.1, 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

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/General Scans ch 21100/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

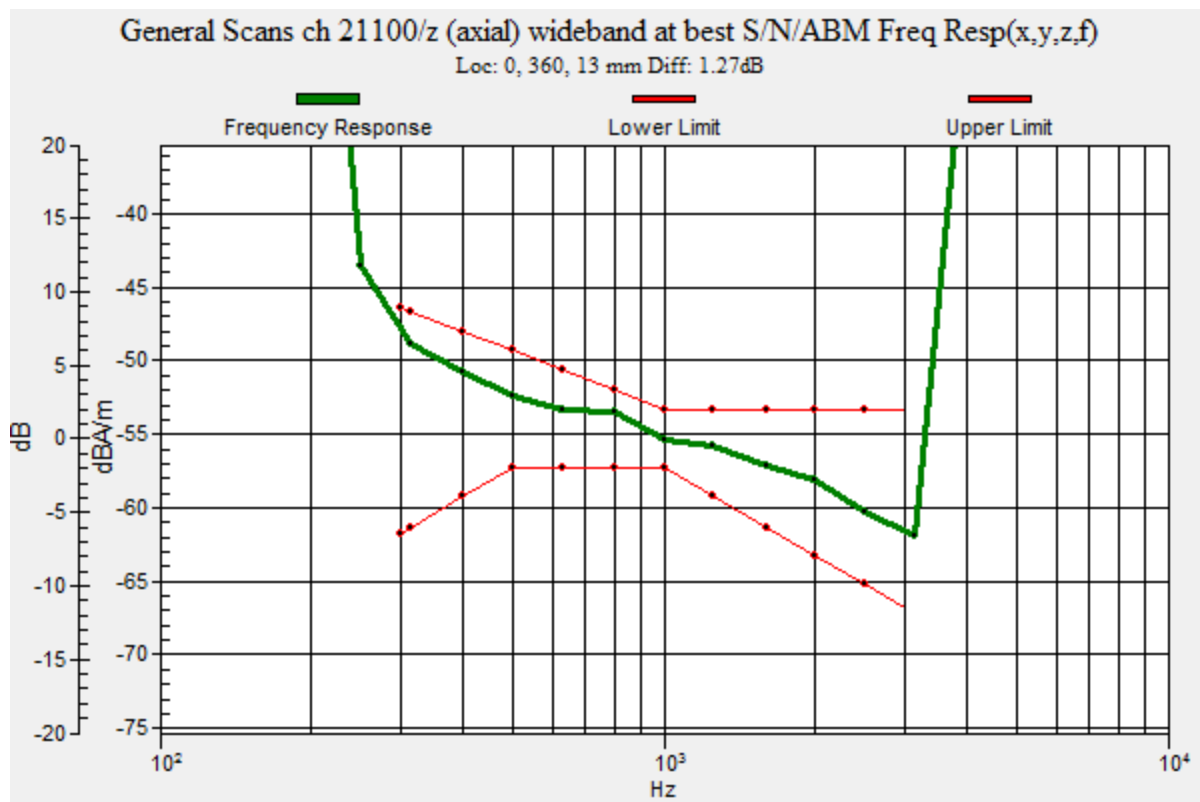
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                     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

#### Cursor:

Diff = 1.27 dB

BWC Factor = 10.80 dB

Location: 0, 360, 13 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 21100/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

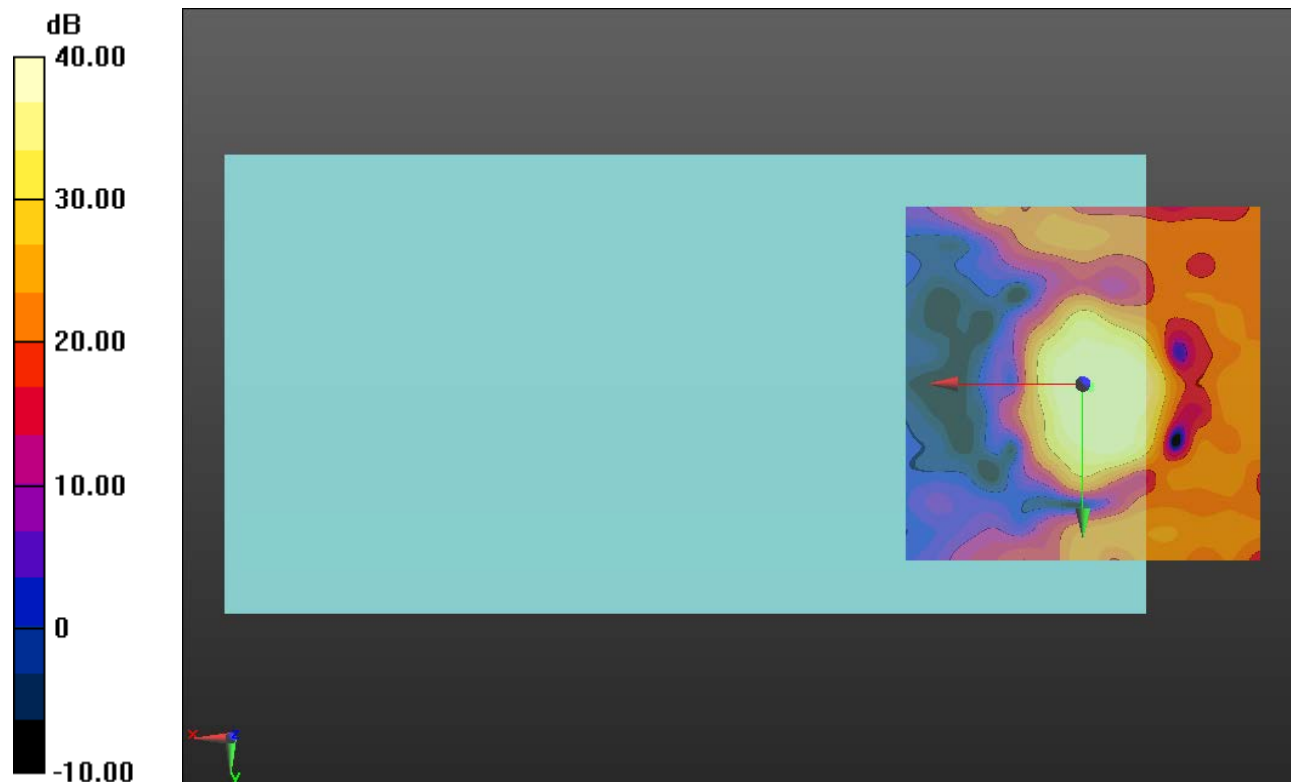
#### Cursor:

ABM1/ABM2 = 45.20 dB

ABM1 comp = 11.11 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, 0.4, 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 21100/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

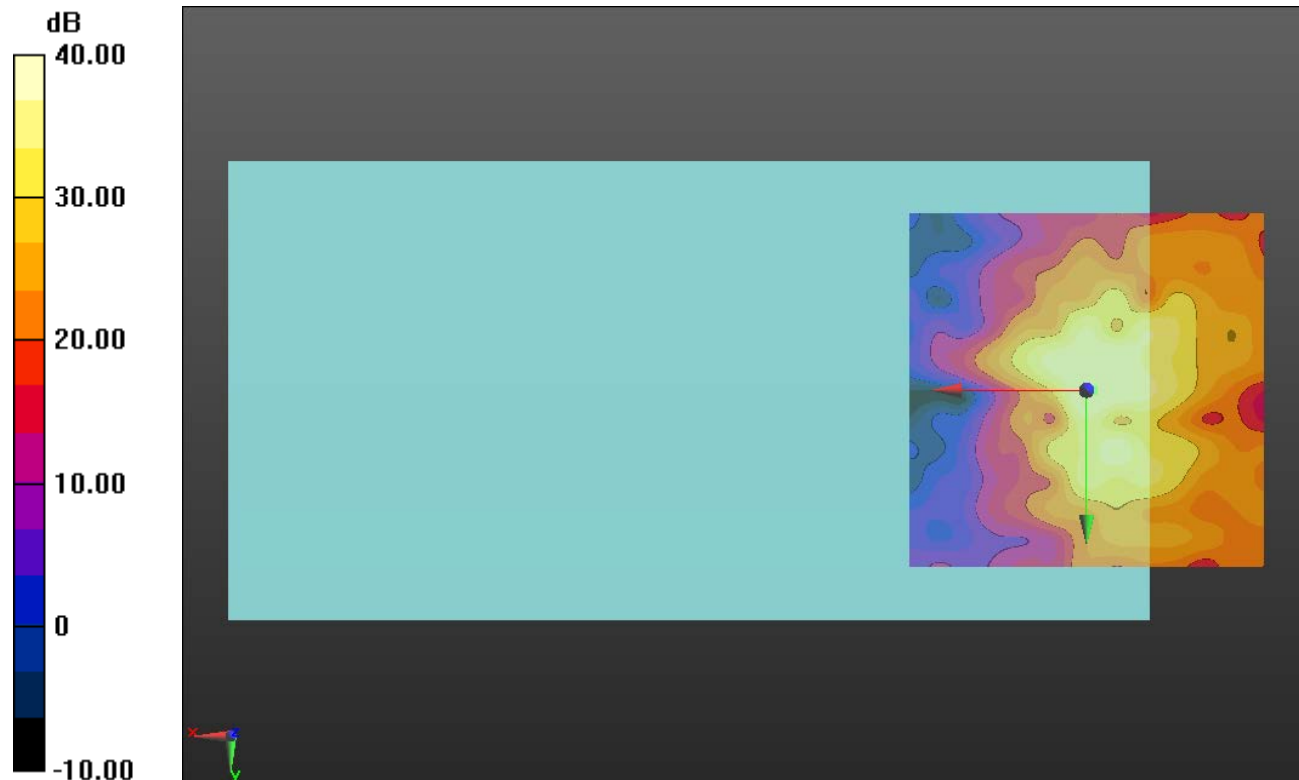
#### Cursor:

ABM1/ABM2 = 42.22 dB

ABM1 comp = -4.32 dBA/m

BWC Factor = 0.16 dB

Location: -0.8, 0, 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)/General Scans ch 23095/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

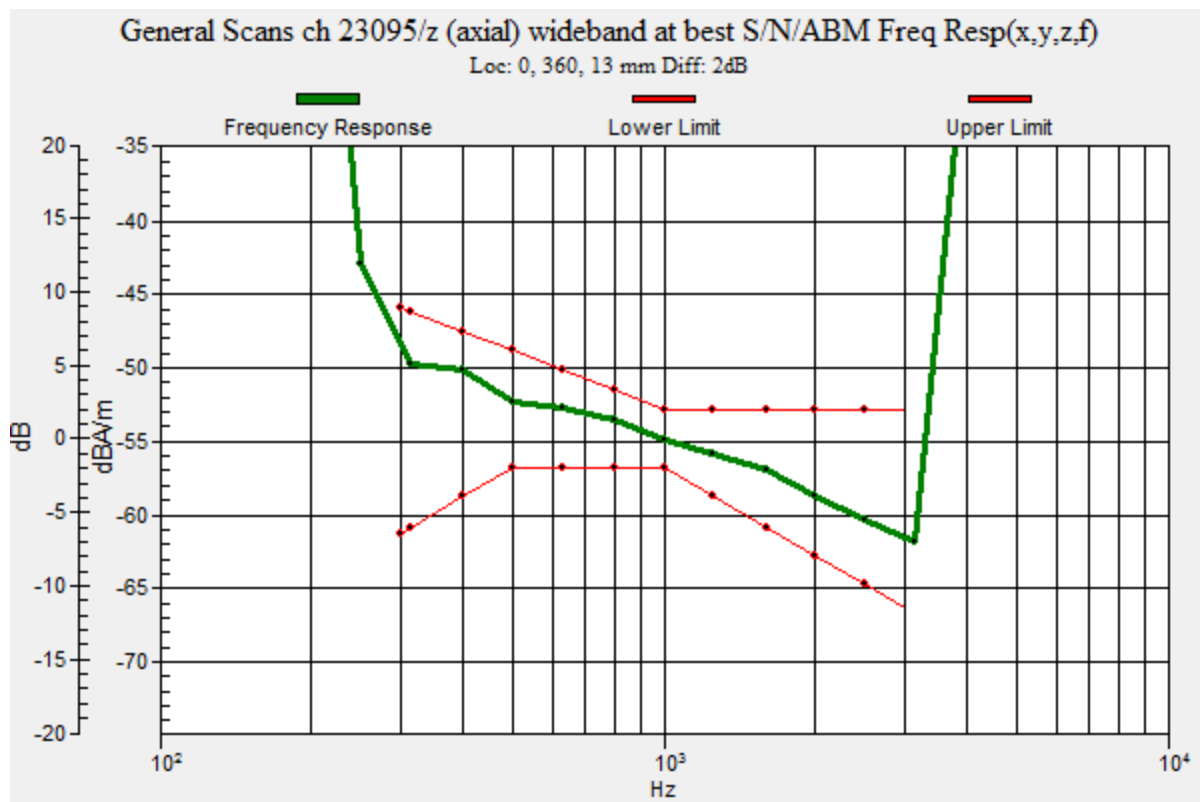
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 23095/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

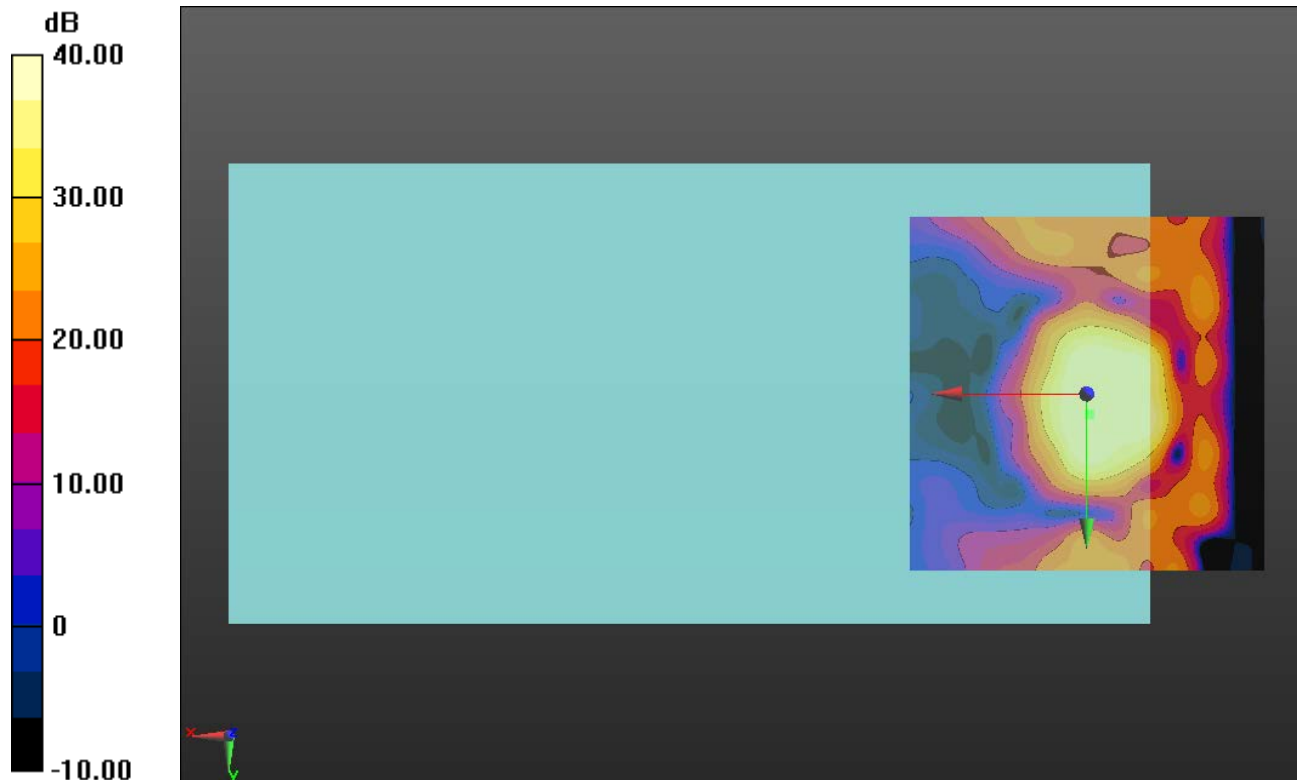
#### Cursor:

ABM1/ABM2 = 42.96 dB

ABM1 comp = 11.75 dBA/m

BWC Factor = 0.16 dB

Location: -0.4, 2.9, 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 23095/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

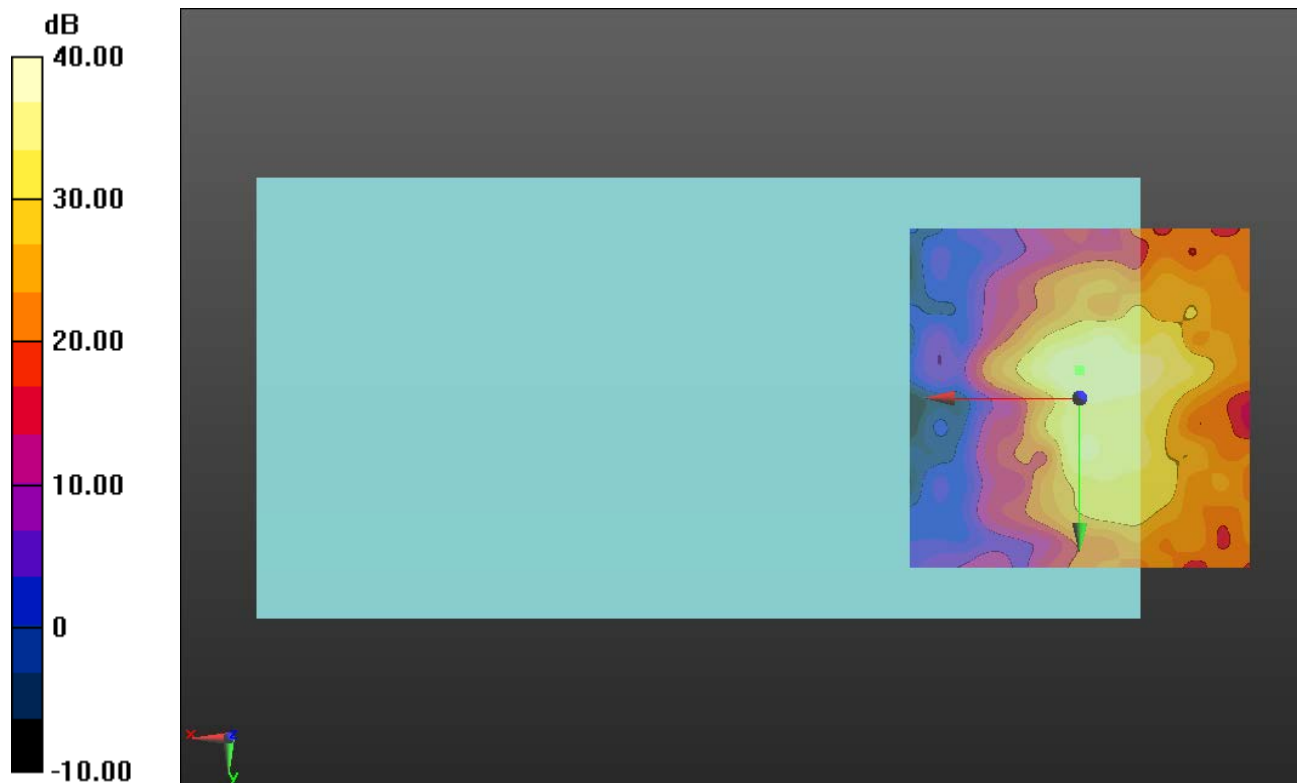
#### Cursor:

ABM1/ABM2 = 42.83 dB

ABM1 comp = 3.28 dBA/m

BWC Factor = 0.16 dB

Location: 0, -4.2, 3.7 mm



0 dB = 1.000 = 0.00 dB

**LTE Band 13**

Communication System: UID 0, LTE (FDD) (0); Frequency: 782 MHz; Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/General Scans ch 23230/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

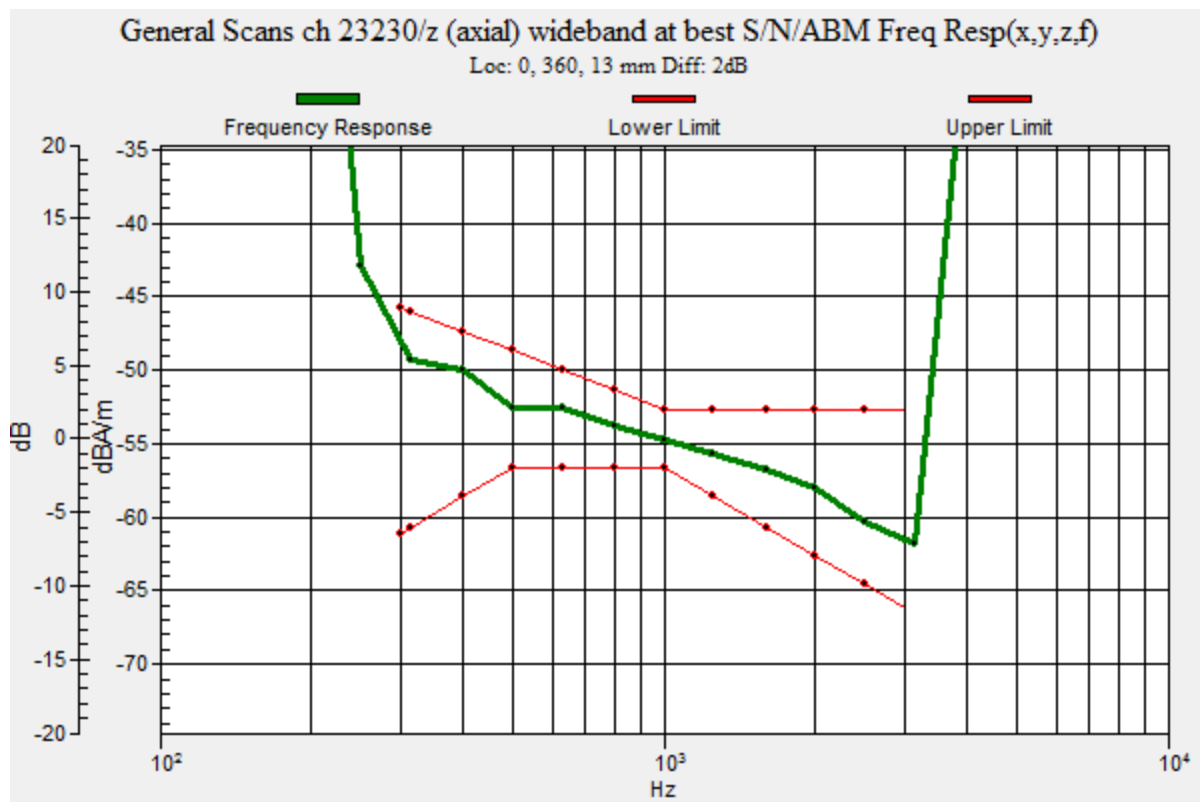
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 mm



## LTE Band 13

Communication System: UID 0, LTE (FDD) (0); Frequency: 782 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 23230/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

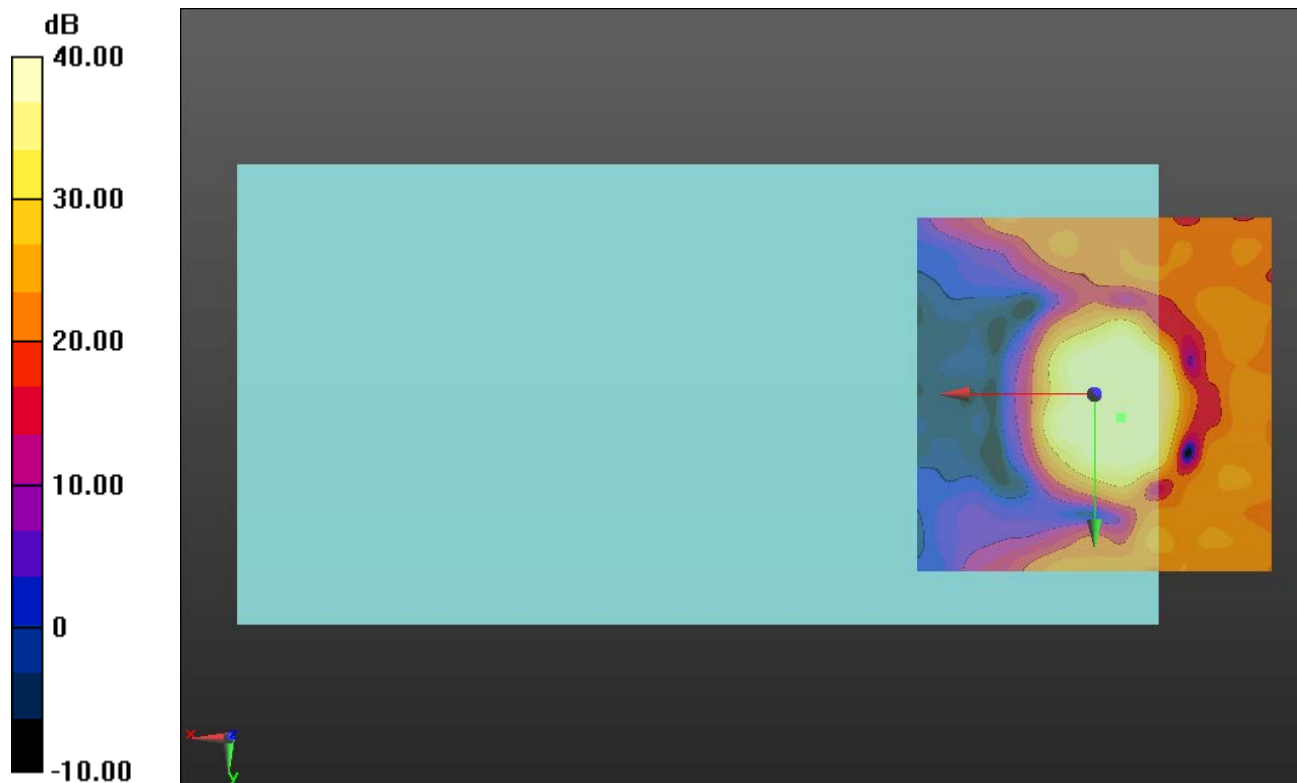
#### Cursor:

ABM1/ABM2 = 45.31 dB

ABM1 comp = 7.10 dBA/m

BWC Factor = 0.16 dB

Location: -3.7, 3.3, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 13

Communication System: UID 0, LTE (FDD) (0); Frequency: 782 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 23230/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

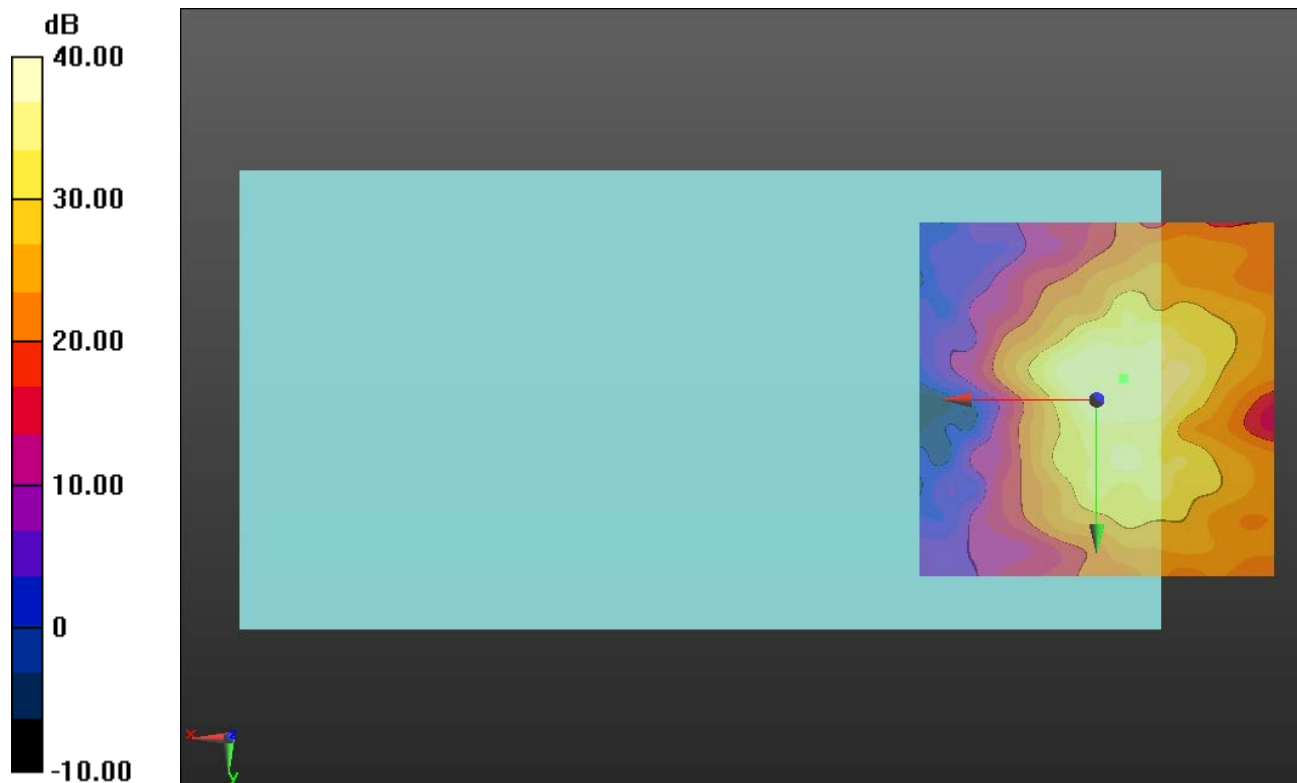
#### Cursor:

ABM1/ABM2 = 43.00 dB

ABM1 comp = -0.59 dBA/m

BWC Factor = 0.16 dB

Location: -3.7, -2.9, 3.7 mm



0 dB = 1.000 = 0.00 dB

**LTE Band 17**

Communication System: UID 0, LTE (FDD) (0); Frequency: 710 MHz; Duty Cycle: 1:1

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/General Scans ch 23790/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

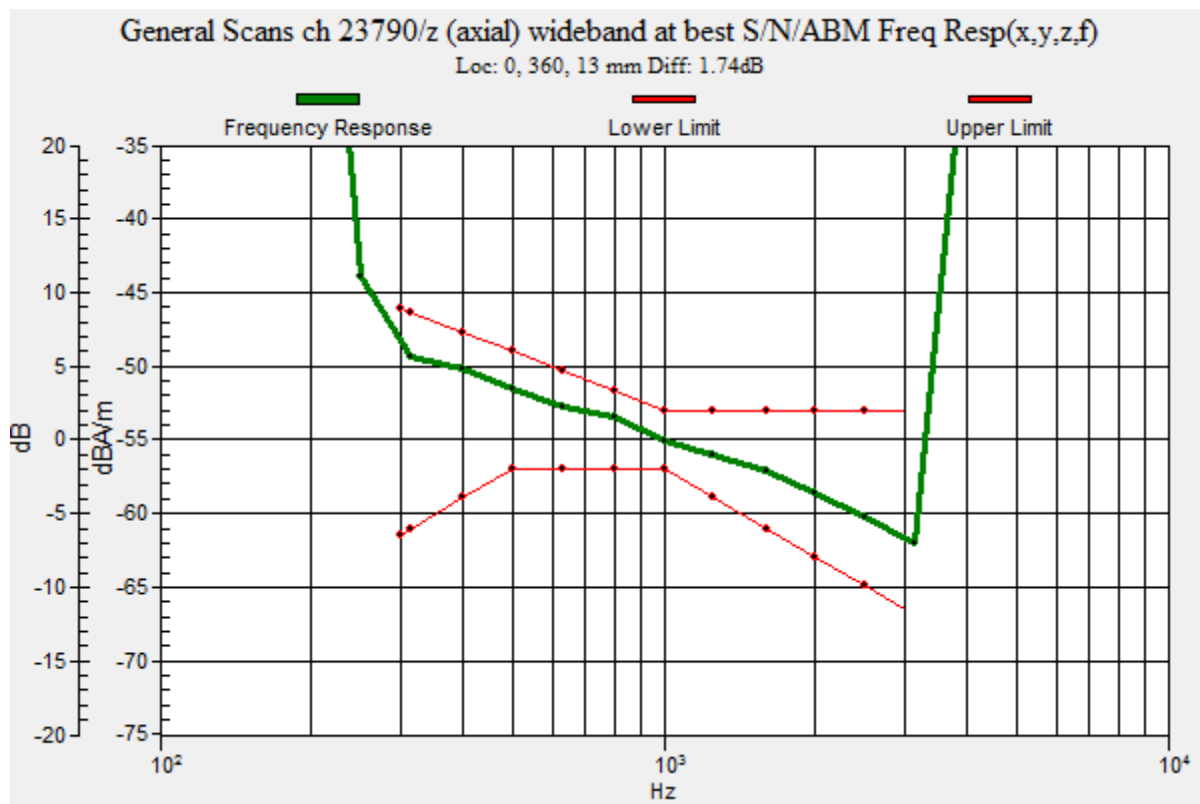
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                     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

**Cursor:**

Diff = 1.74 dB

BWC Factor = 10.80 dB

Location: 0, 360, 13 mm



## LTE Band 17

Communication System: UID 0, LTE (FDD) (0); Frequency: 710 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 23790/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

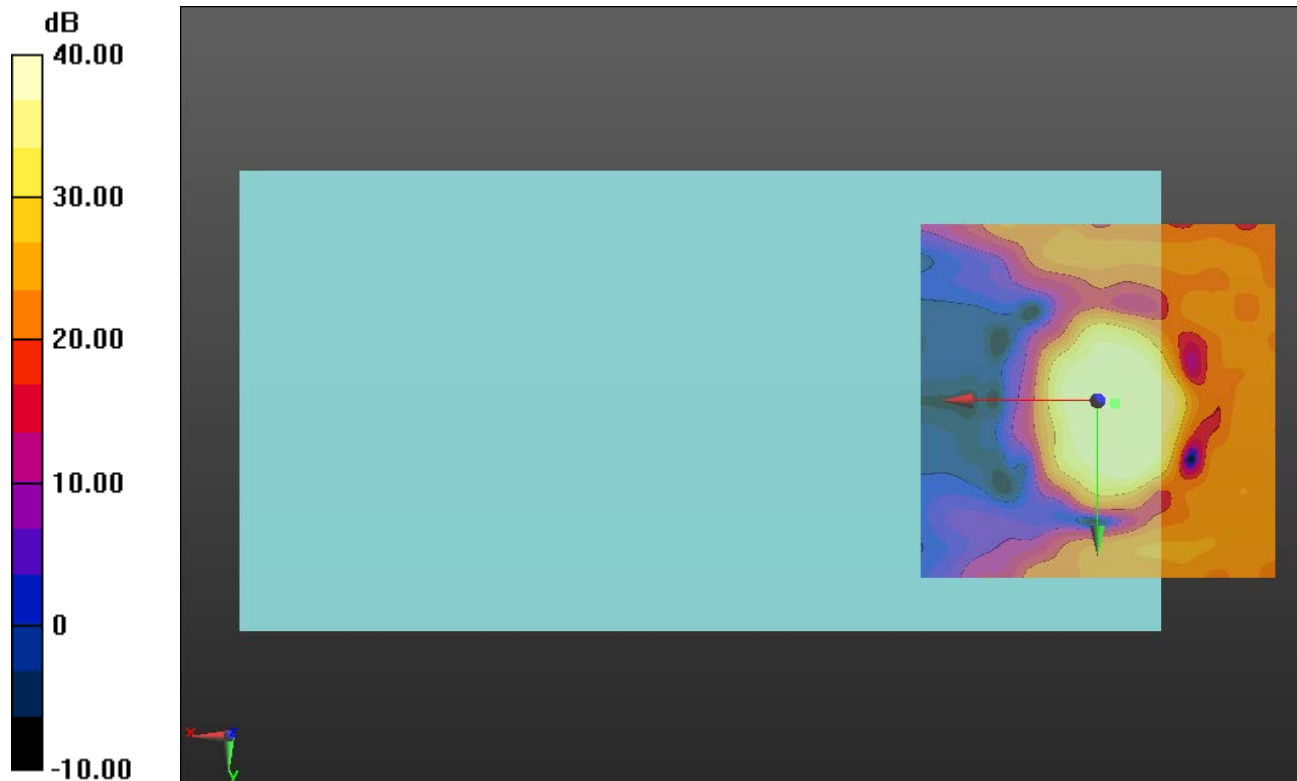
#### Cursor:

ABM1/ABM2 = 46.50 dB

ABM1 comp = 9.53 dBA/m

BWC Factor = 0.16 dB

Location: -2.5, 0.4, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 17

Communication System: UID 0, LTE (FDD) (0); Frequency: 710 MHz; Duty Cycle: 1:1

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 23790/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

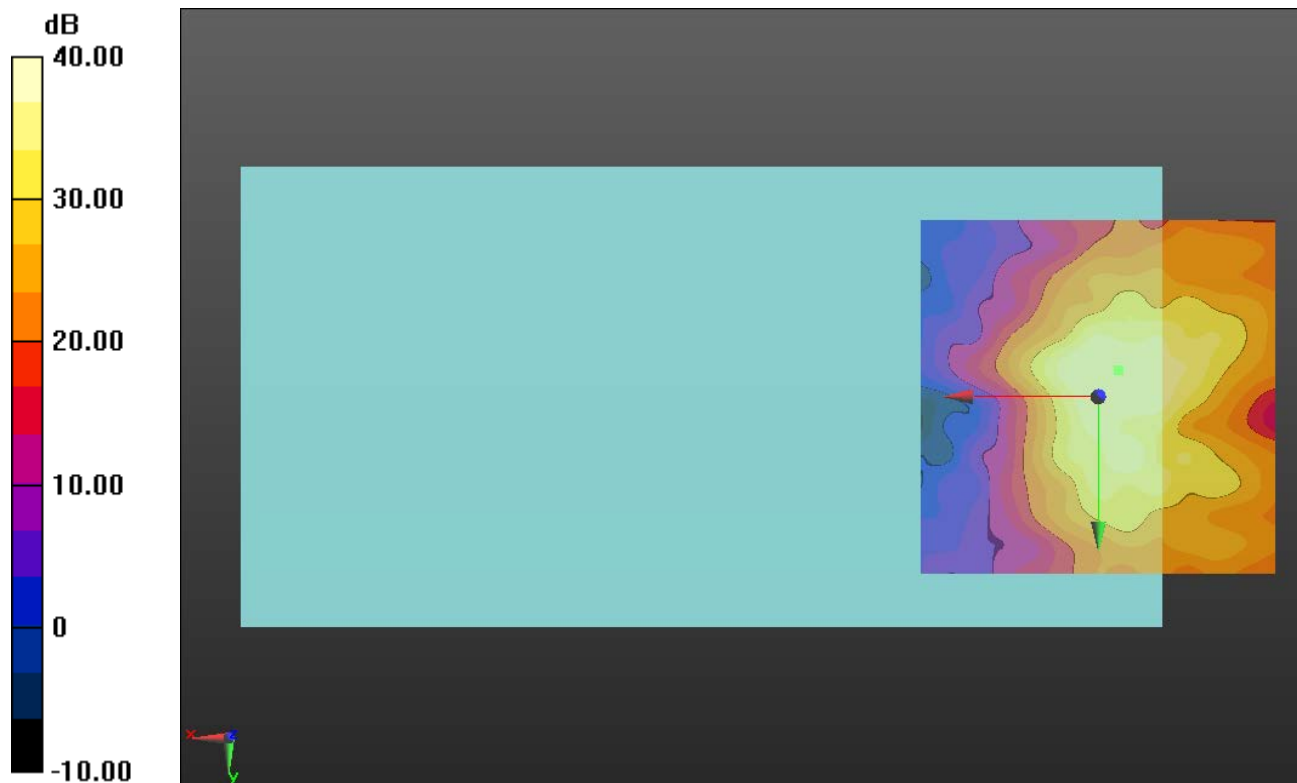
#### Cursor:

ABM1/ABM2 = 43.64 dB

ABM1 comp = 1.04 dBA/m

BWC Factor = 0.16 dB

Location: -2.9, -3.8, 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)/General Scans ch 26365/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

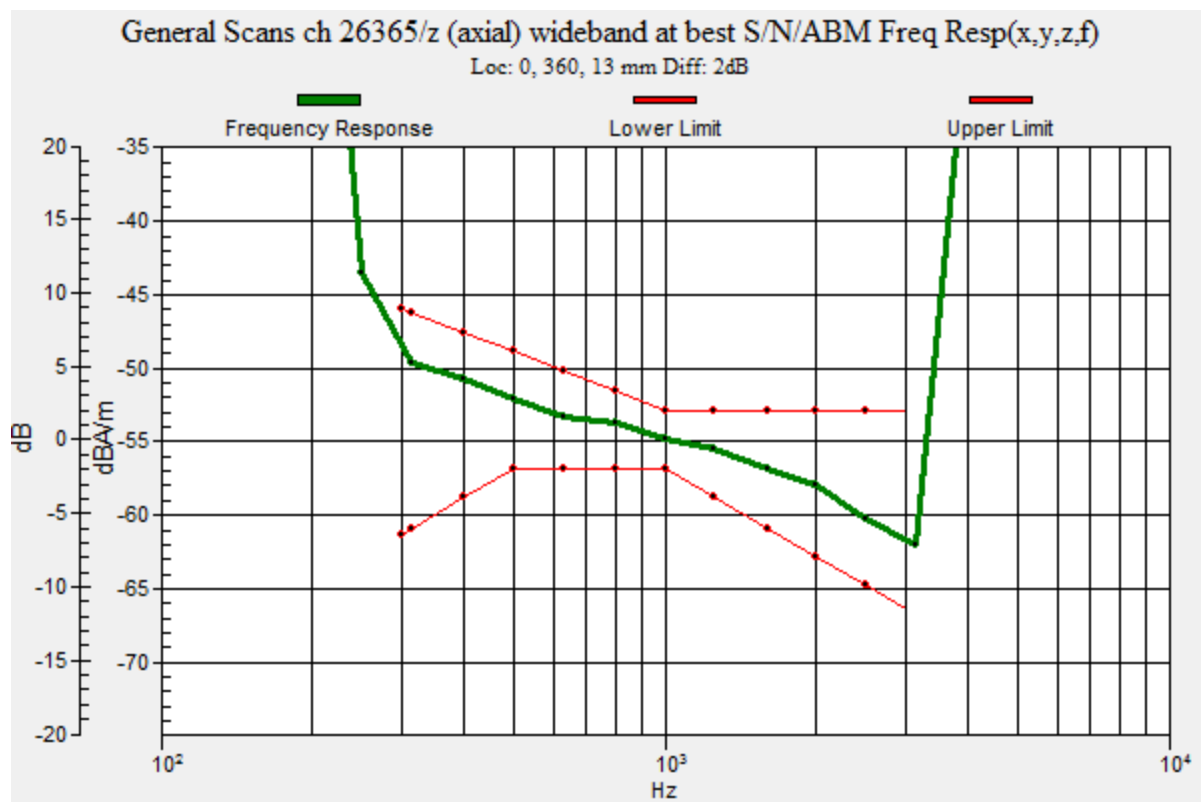
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 26365/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

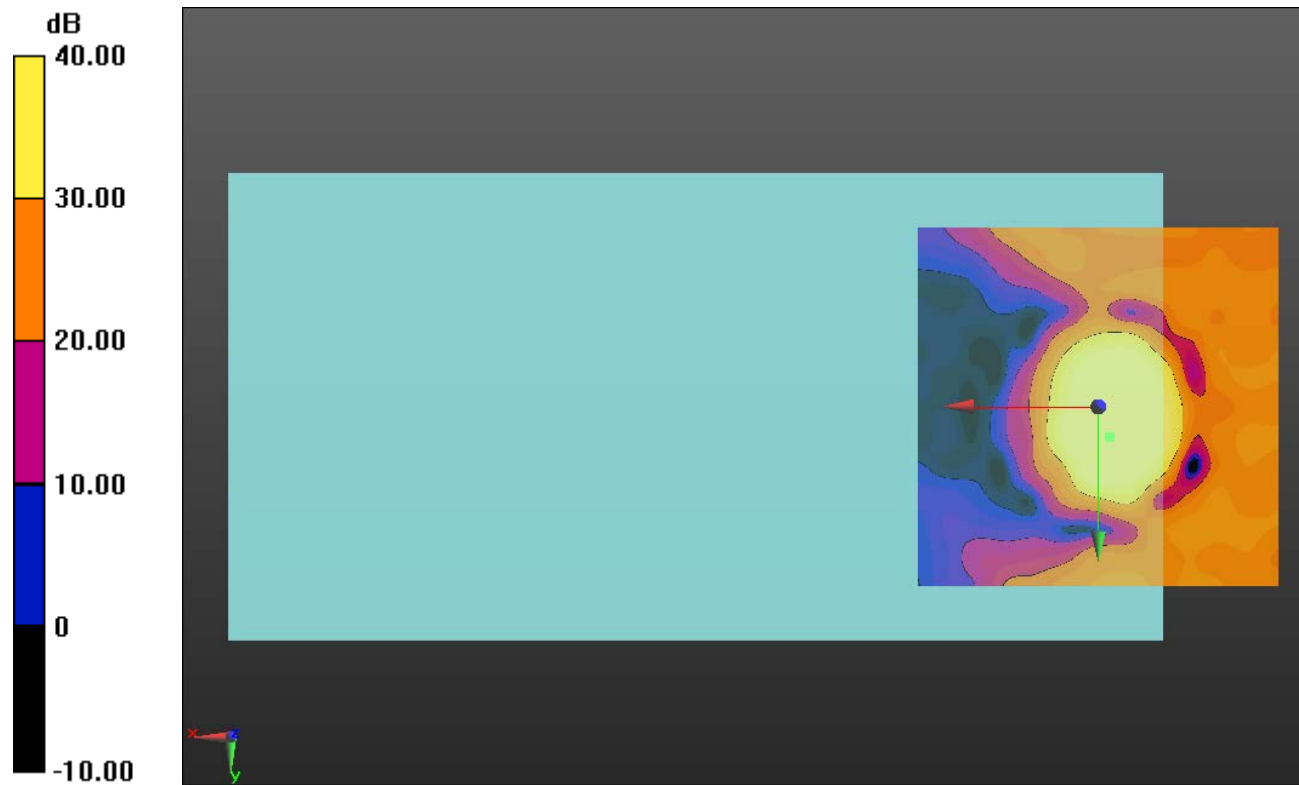
#### Cursor:

ABM1/ABM2 = 47.75 dB

ABM1 comp = 9.83 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 4.2, 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 26365/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

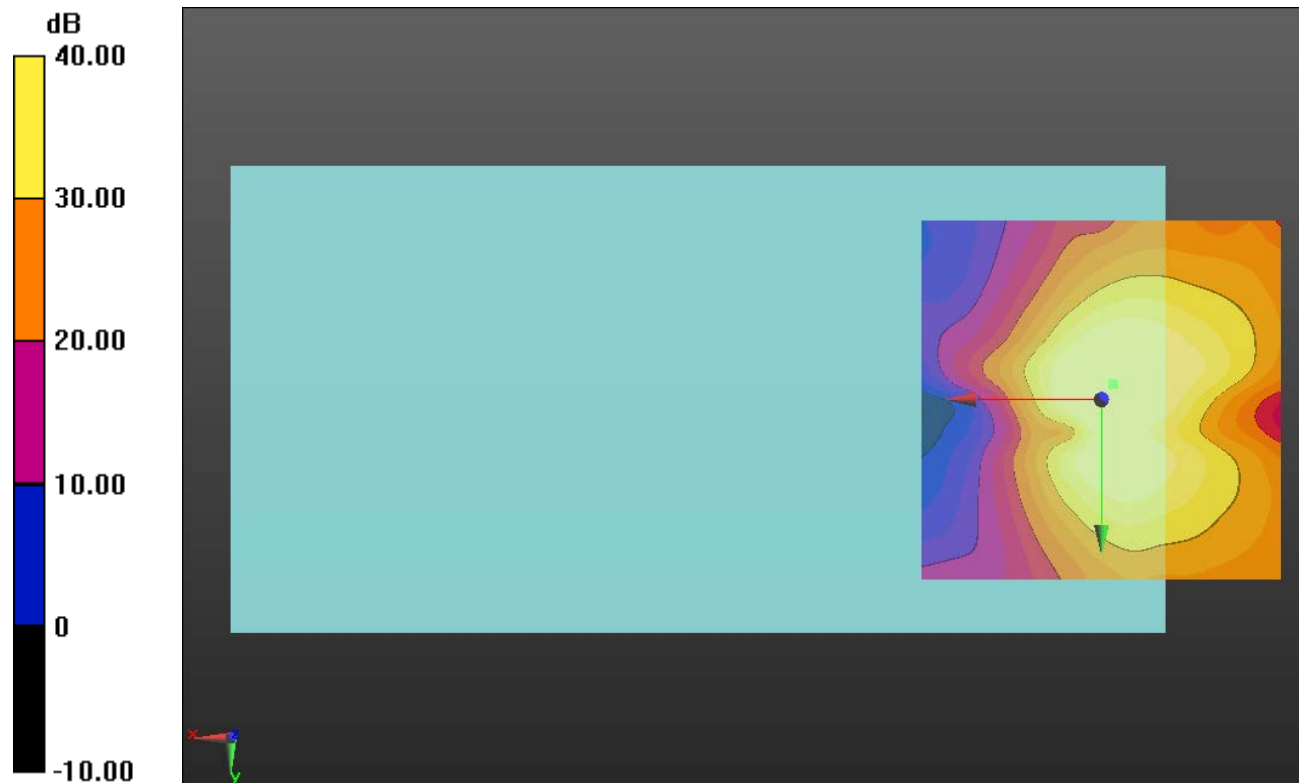
#### Cursor:

ABM1/ABM2 = 46.14 dB

ABM1 comp = -0.08 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, -2.1, 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

### T-Coil scan (scan for ANSI C63.19 2011 compliance)/General Scans ch 26865/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

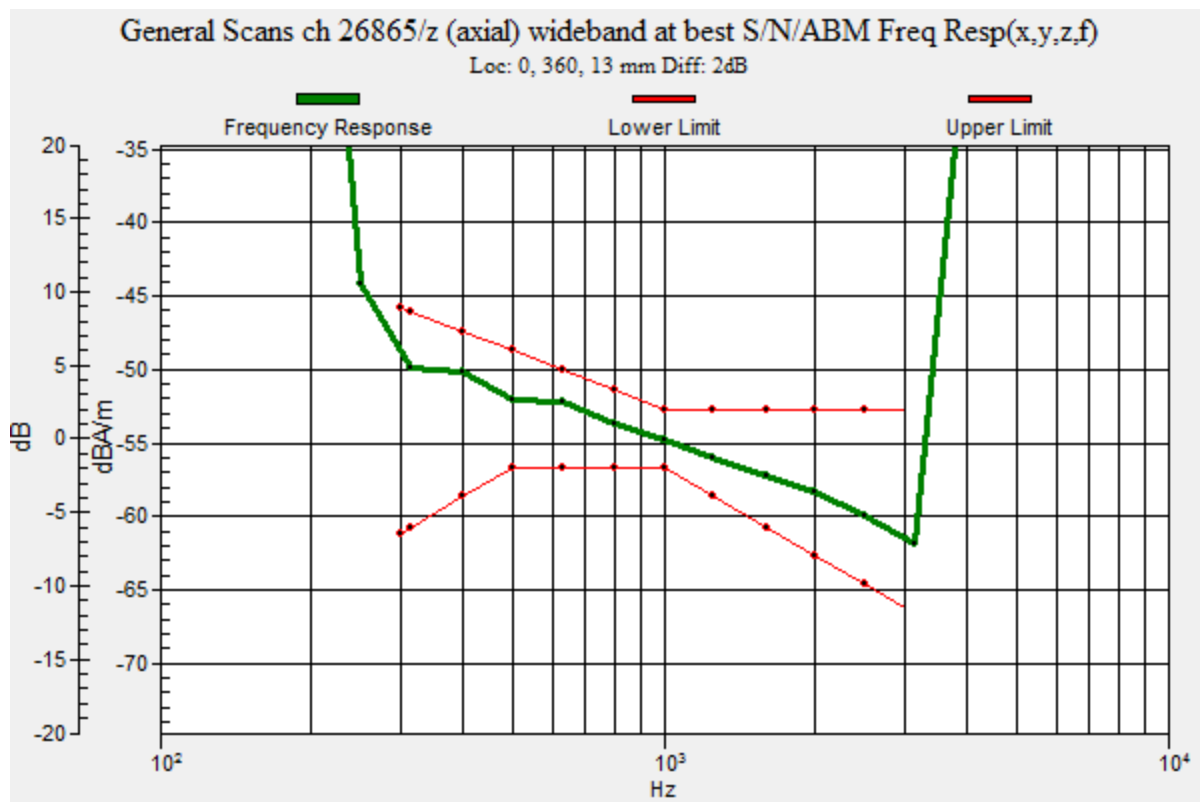
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 26865/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

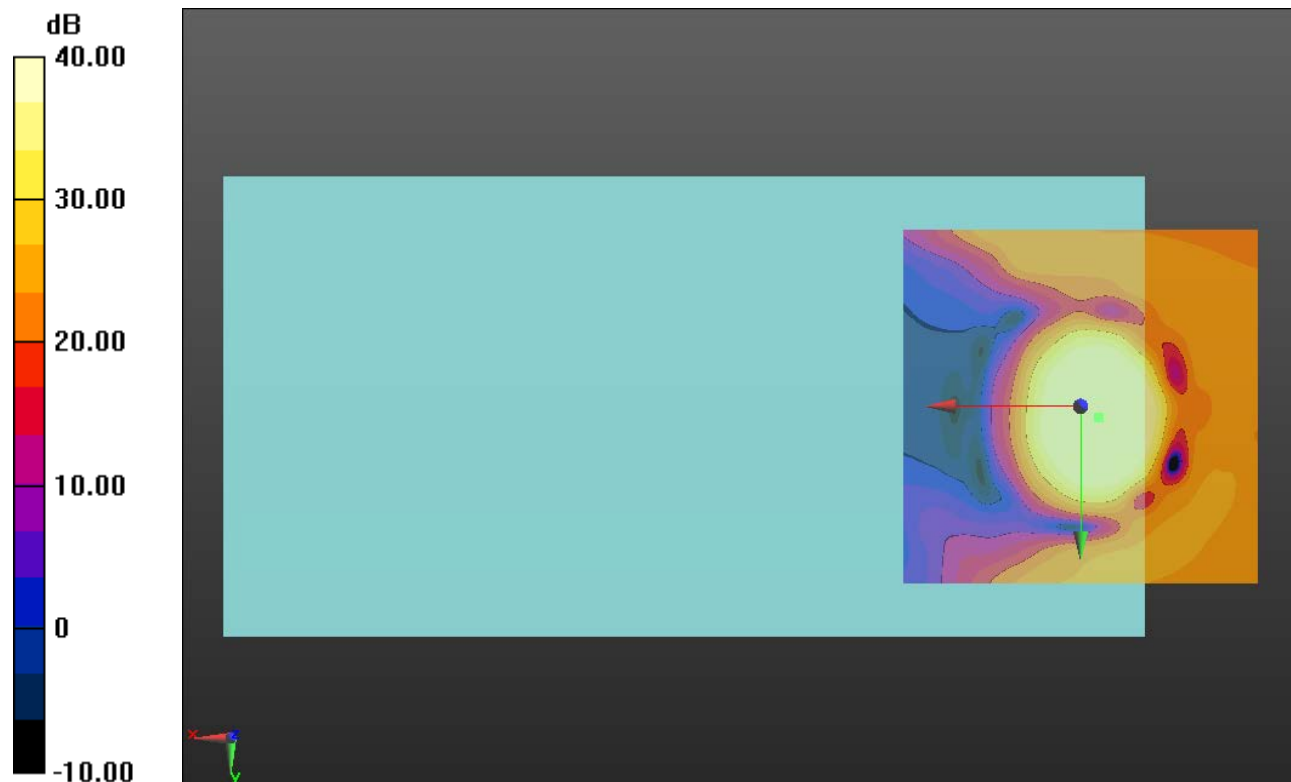
#### Cursor:

ABM1/ABM2 = 47.63 dB

ABM1 comp = 9.42 dBA/m

BWC Factor = 0.16 dB

Location: -2.5, 1.7, 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 26865/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

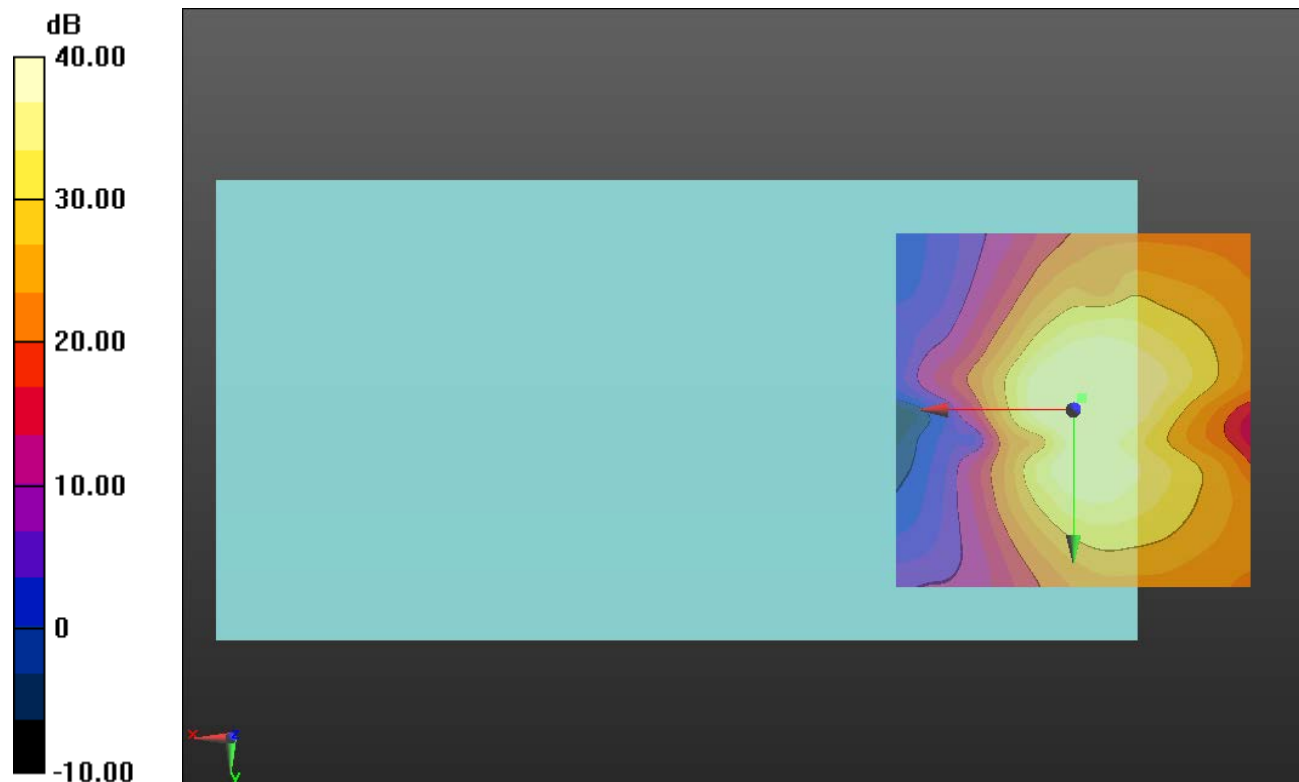
#### Cursor:

ABM1/ABM2 = 44.66 dB

ABM1 comp = -0.56 dBA/m

BWC Factor = 0.16 dB

Location: -1.2, -1.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

**LTE Band 38**

Communication System: UID 0, LTE (TDD) (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/General Scans ch 38000/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

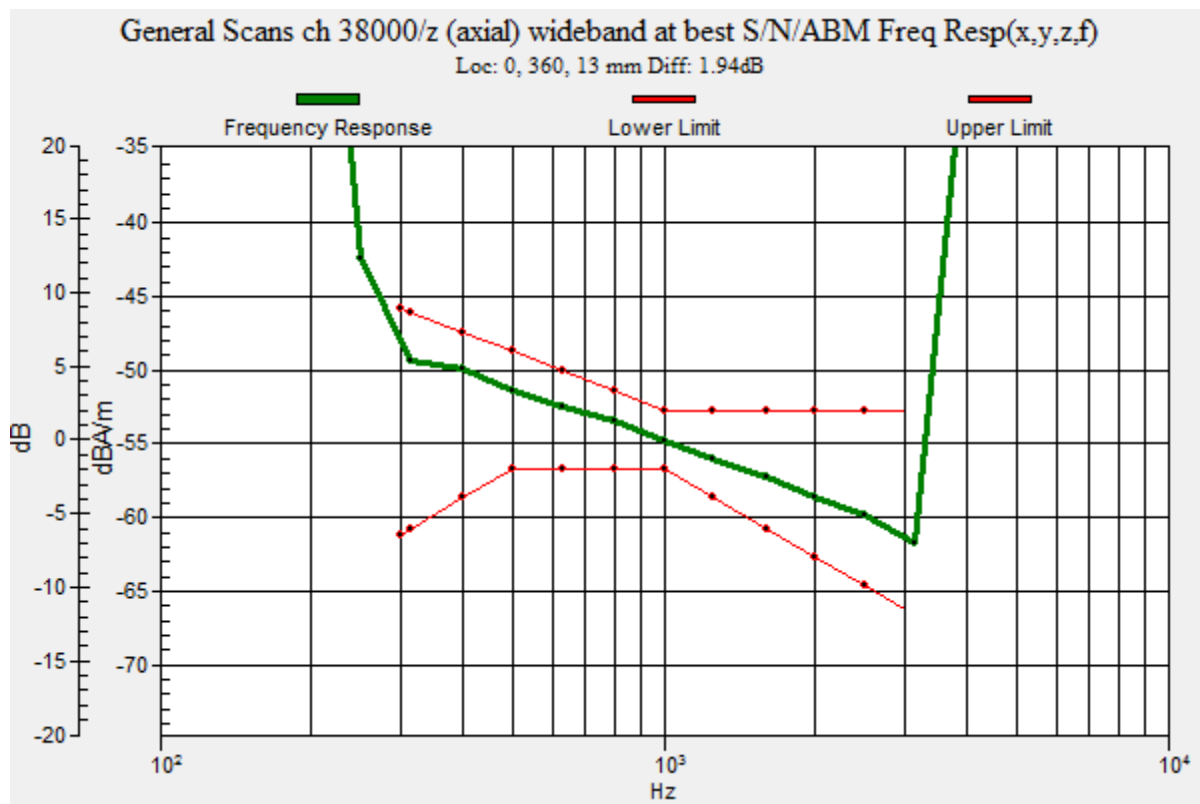
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 mm



## LTE Band 38

Communication System: UID 0, LTE (TDD) (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 38000/z (axial)

**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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

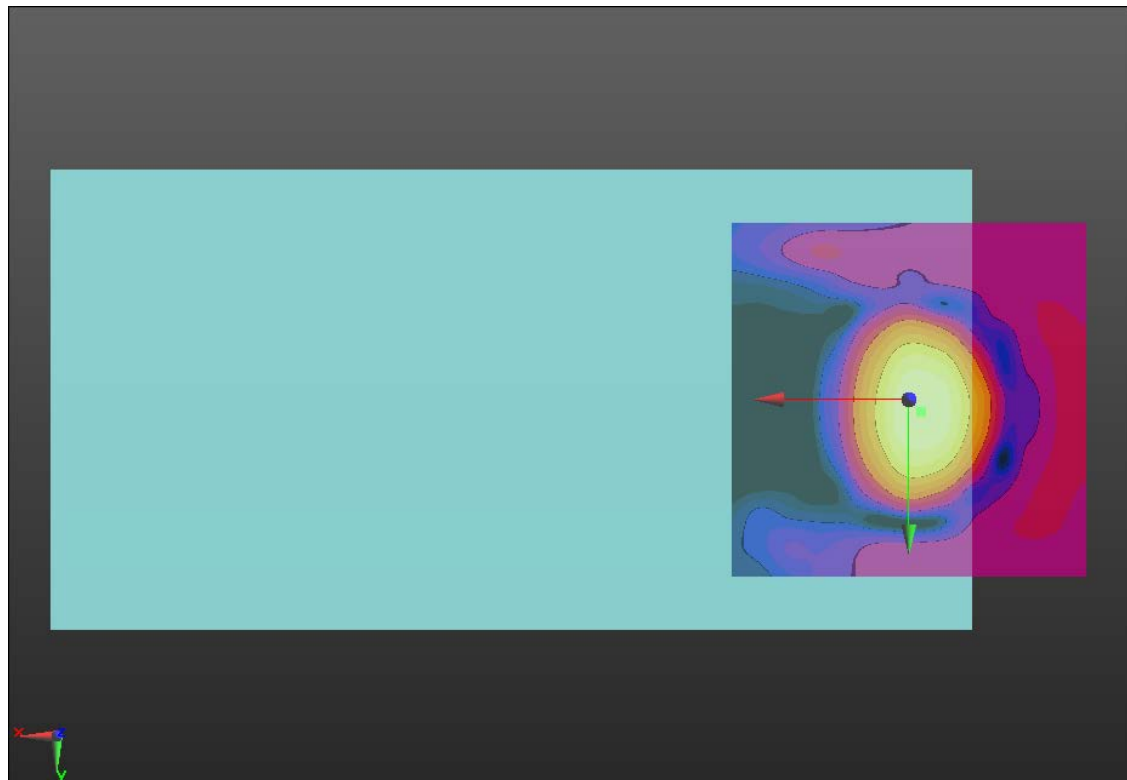
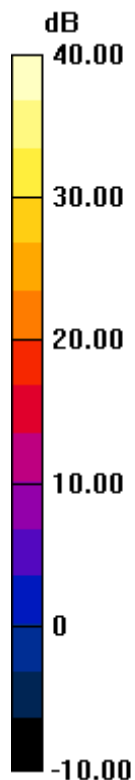
#### Cursor:

ABM1/ABM2 = 40.20 dB

ABM1 comp = 10.79 dBA/m

BWC Factor = 0.16 dB

Location: -1.7, 1.7, 3.7 mm



0 dB = 1.000 = 0.00 dB

## LTE Band 38

Communication System: UID 0, LTE (TDD) (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59956

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 38000/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

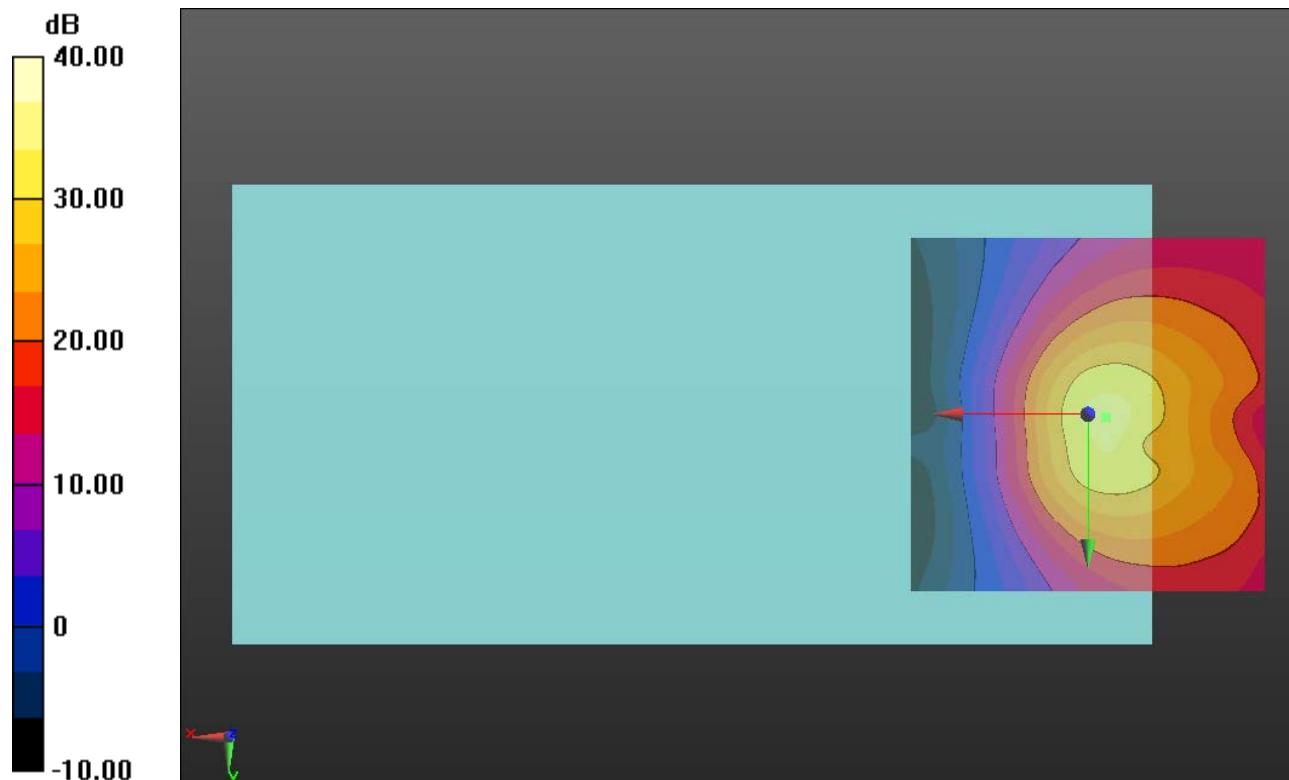
#### Cursor:

ABM1/ABM2 = 34.38 dB

ABM1 comp = -5.23 dBA/m

BWC Factor = 0.16 dB

Location: -2.5, 0.4, 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)/General Scans ch 40620/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

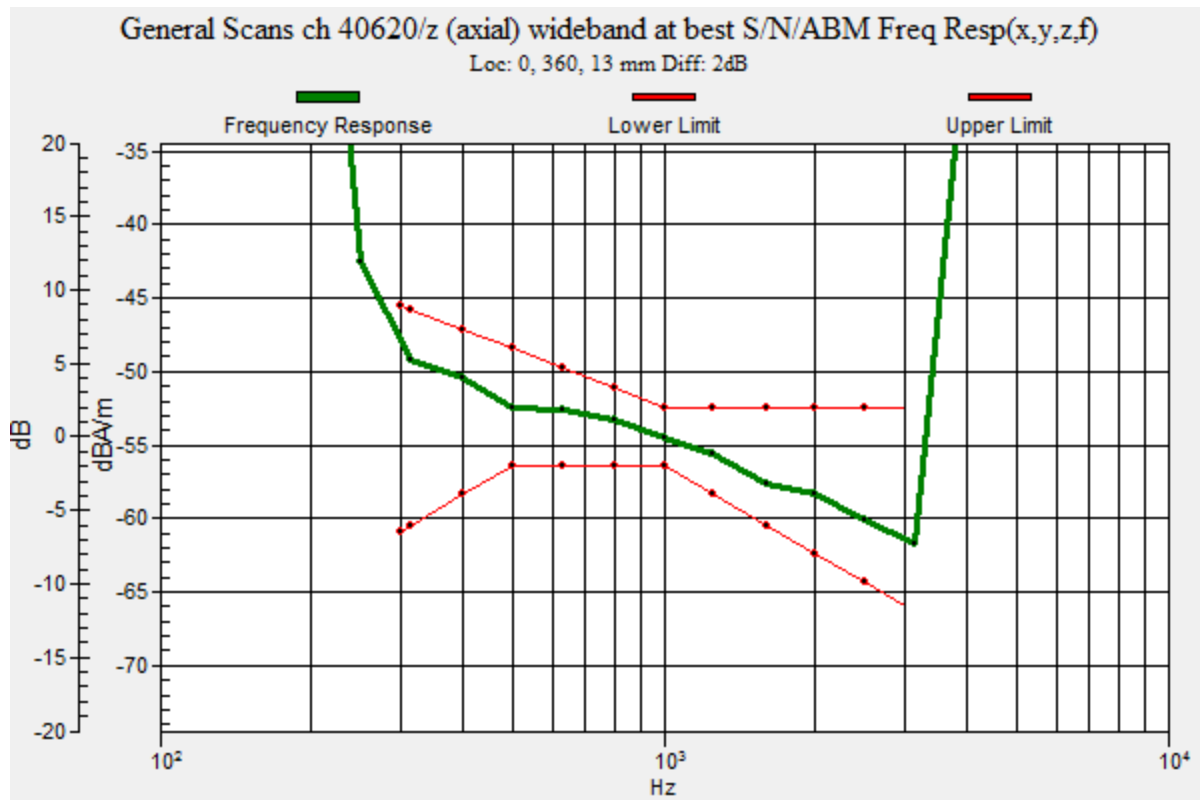
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 40620/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

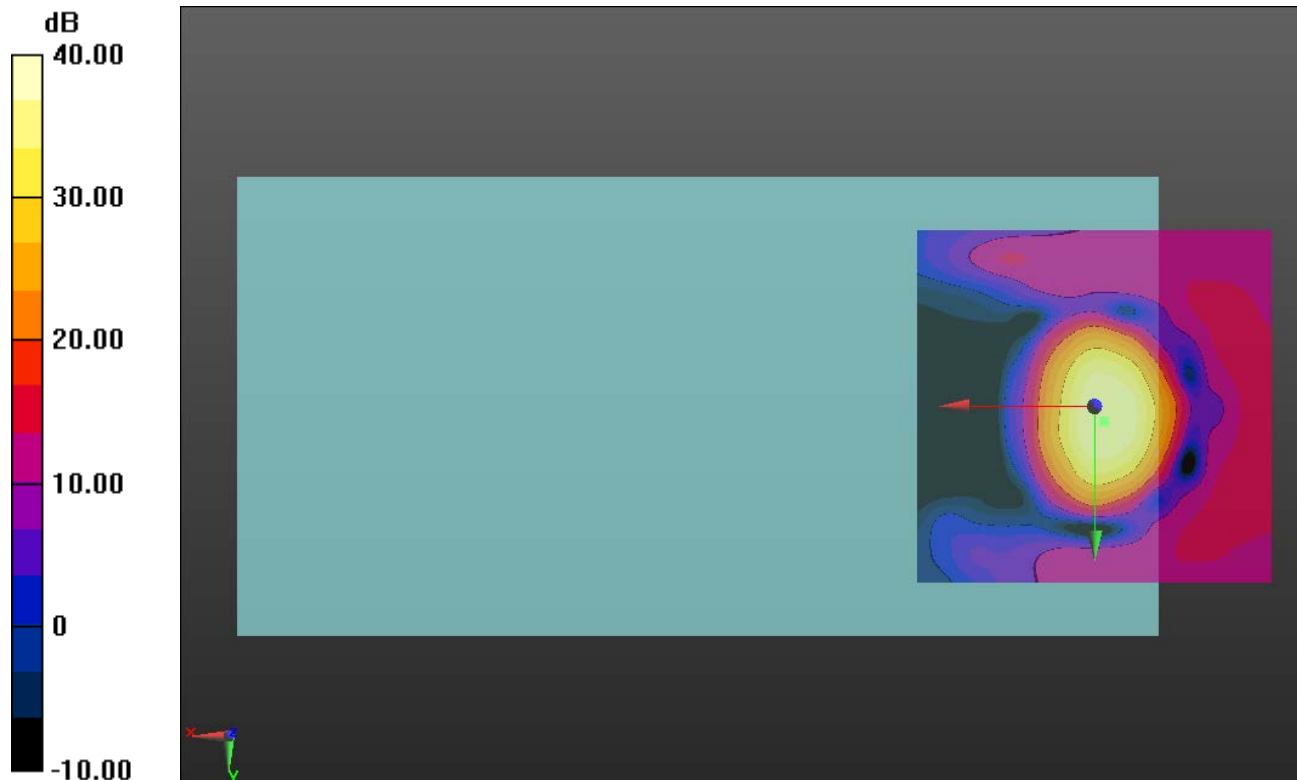
#### Cursor:

ABM1/ABM2 = 40.48 dB

ABM1 comp = 11.27 dBA/m

BWC Factor = 0.16 dB

Location: -1.2, 2.1, 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

Phantom section: TCoil Section

DASY5 Configuration:

- Probe: AM1DV3 - 3083; ; Calibrated: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 40620/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

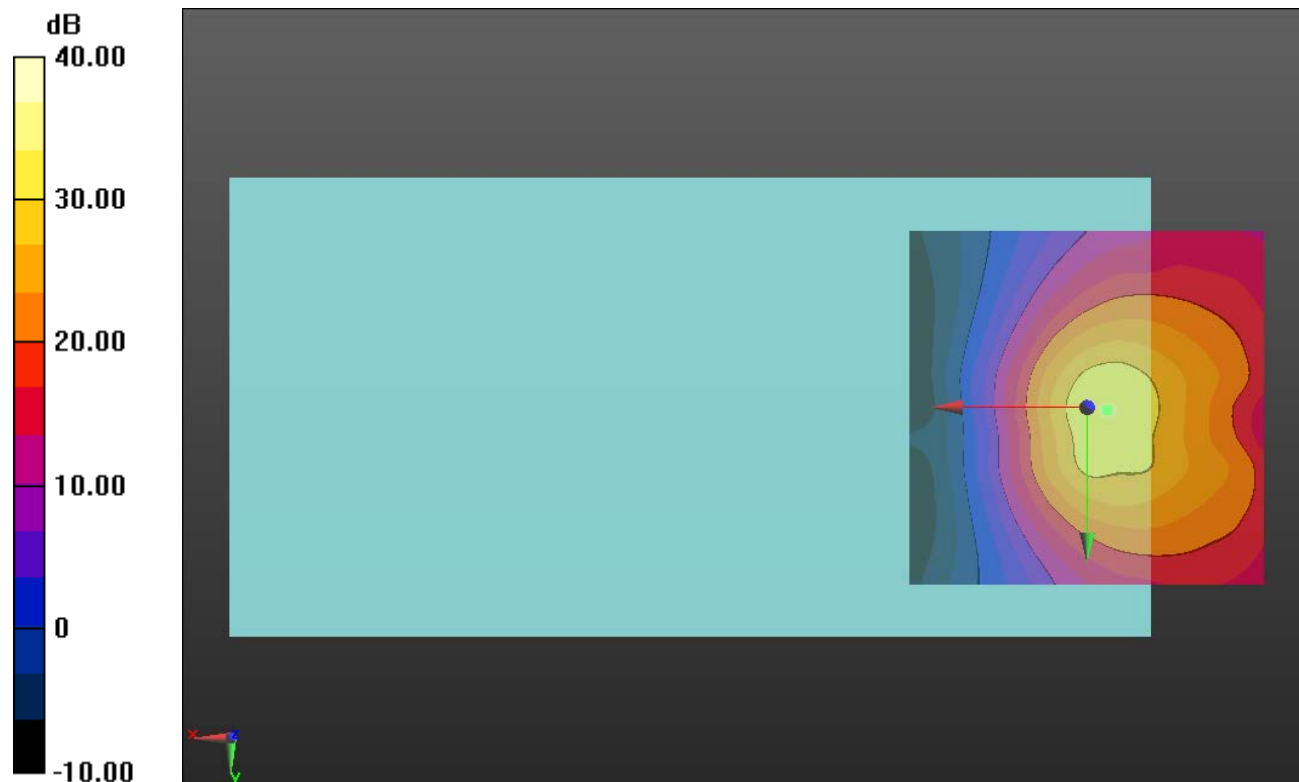
#### Cursor:

ABM1/ABM2 = 33.53 dB

ABM1 comp = -5.58 dBA/m

BWC Factor = 0.16 dB

Location: -2.9, 0.4, 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

**T-Coil scan (scan for ANSI C63.19 2011 compliance)/General Scans ch 132322/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: 100

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

Device Reference Point: 0, 0, -6.3 mm

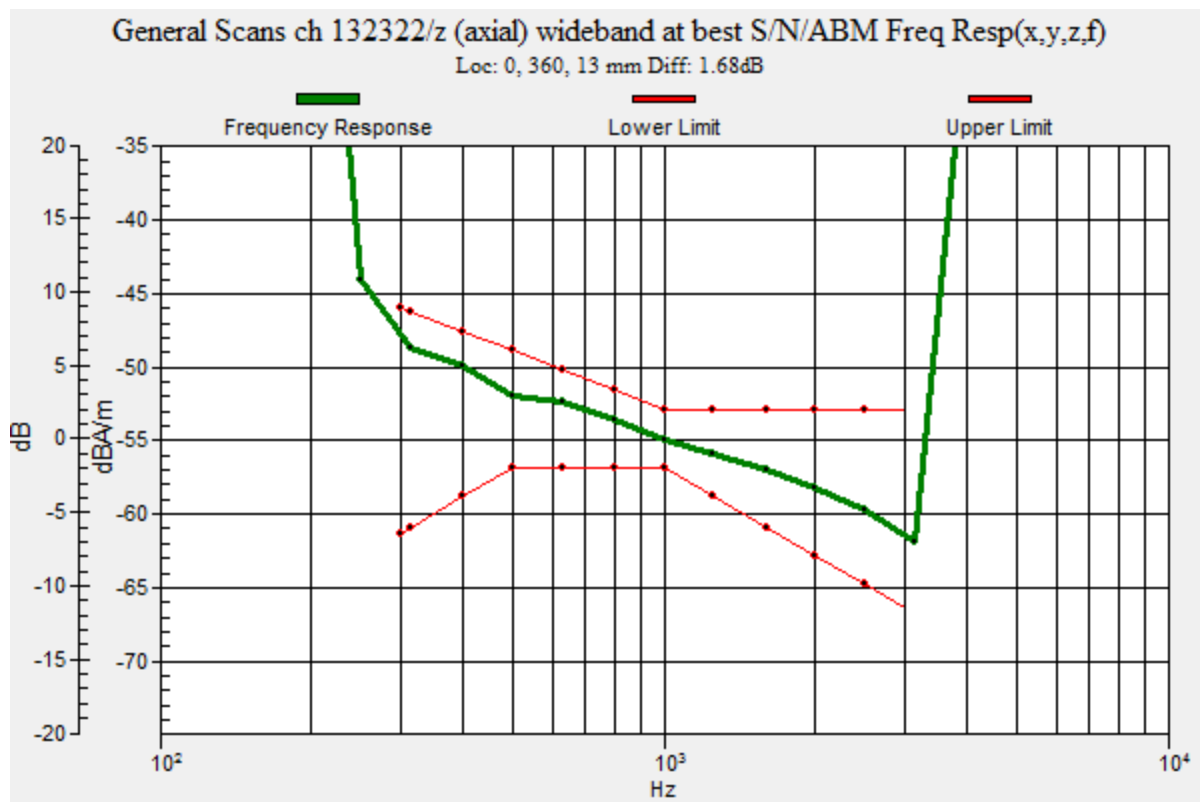
| Category    | Telephone parameters WD signal quality [(signal+noise)-to-noise ratio in decibels] |
|-------------|------------------------------------------------------------------------------------|
| Category T1 | 0 dB to 10 dB                                                                      |
| 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, 360, 13 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 132322/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

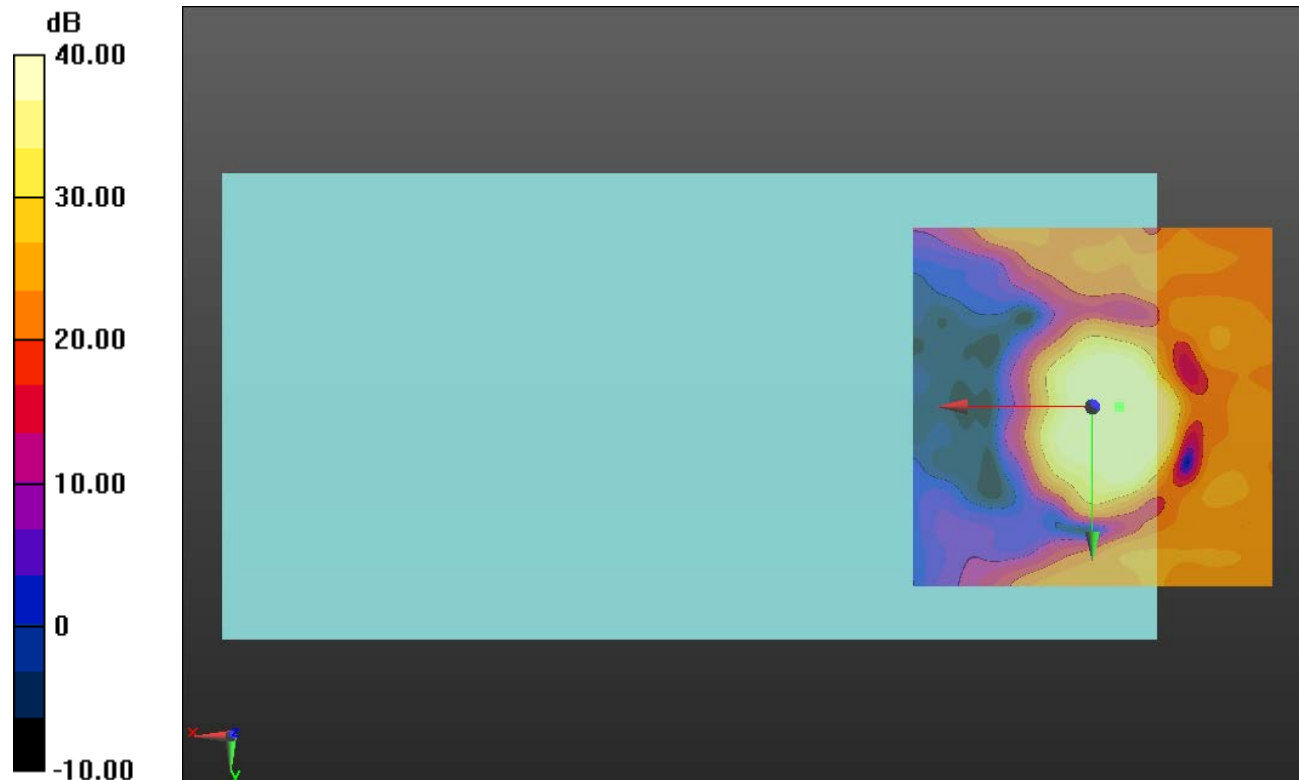
#### Cursor:

ABM1/ABM2 = 45.38 dB

ABM1 comp = 7.24 dBA/m

BWC Factor = 0.16 dB

Location: -3.7, 0, 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: 1/23/2017
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn1433; Calibrated: 3/8/2017
- 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)/General Scans ch 132322/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: 100

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

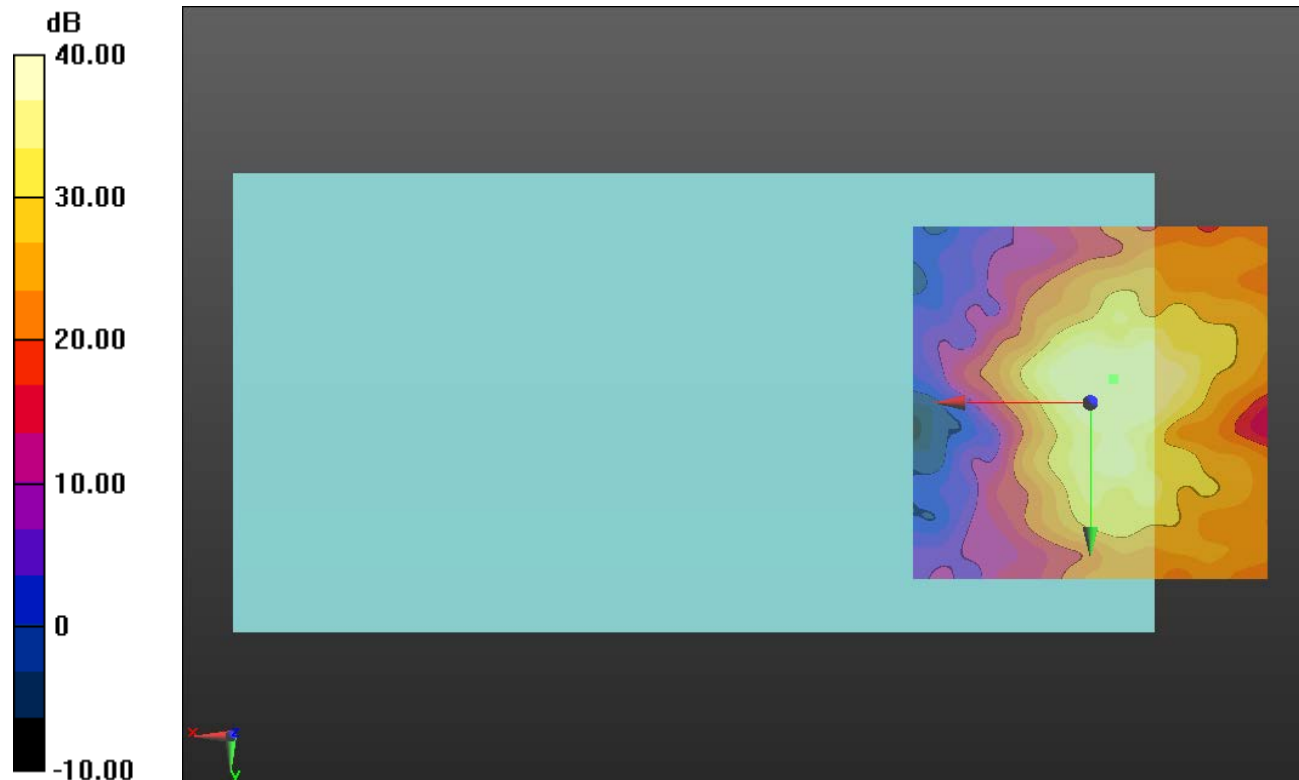
#### Cursor:

ABM1/ABM2 = 44.70 dB

ABM1 comp = 0.23 dBA/m

BWC Factor = 0.16 dB

Location: -3.3, -3.3, 3.7 mm



0 dB = 1.000 = 0.00 dB