

# HAC TEST REPORT

## <T-Coil measurement>

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Applicant Name       | Nokia Inc.                                        |
| Address of Applicant | 12278 Scripps Summit Dr. , San Diego CA92131, USA |
| EUT Type             | CDMA2000 1xRTT Mobile Phone                       |
| Model Number         | RH-120                                            |
| Date of receive      | 2008.09.19                                        |
| Date of Test(s)      | 2008.09.22 ~ 2008.09.23;2008.10.06                |
| Date of Issue        | 2008.10.06                                        |

Standards:

**ANSI C63.19-2007**

**FCC RULE PART(S): 47 CFR PART 20.19(B)**

**HAC RATE CATEGORY: T3 (T Category)**

In the configuration tested, the EUT complied with the standards specified above.

### Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Tested by :

Ricky Huang

Asst. Supervisor

Approved by:

Robert Chang

Tech. Manager

Date: 2008/10/06

Date: 2008/10/06

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## 1. Introduction

The purpose of the Hearing Aid Compatibility extension is to enable measurements of the near electric and magnetic fields generated by wireless communication devices in the region controlled for use by a hearing aid in accordance with ANSI-C63.19-2007

FCC has granted a request for waiver of the HAC rules in section 20.19 for dual band GSM handsets. The waiver has specific conditions, as stated in the order (FCC 05-166) and expires 1 August 2006.

The purpose of this standard is to establish categories for hearing aids and for WD (wireless communications devices) that can indicate to health care practitioners and hearing aid users which hearing aids are compatible with which WD, and to provide tests that can be used to assess the electromagnetic characteristics of hearing aids and WD and assign them to these categories. The various parameters required, in order to demonstrate compatibility and accessibility are measured. The design of the standard is such that when a hearing aid and WD achieve one of the categories specified, as measured by the methodology of this standard, the indicated performance is realized.

In order to provide for the usability of a hearing aid with a WD, several factors must be coordinated:

- a) Radio frequency (RF) measurements of the near-field electric and magnetic fields emitted by a WD to categorize these emissions for correlation with the RF immunity of a hearing aid.
- b) Magnetic field measurements of a WD emitted via the audio transducer associated with the T-coil mode of the hearing aid, for assessment of hearing aid performance.
- c) Measurements with the hearing aid and a simulation of the categorized WD T-coil emissions to assess the hearing aid RF immunity in the T-coil mode.

The WD radio frequency (RF) and audio band emissions are measured.

Hence, the following are measurements made for the WD:

- a) RF E-Field emissions
- b) RF H-Field emissions
- c) T-coil mode, magnetic signal strength in the audio band
- d) T-coil mode, magnetic signal and noise articulation index
- e) T-coil mode, magnetic signal frequency response through the audio band

Corresponding to the WD measurements, the hearing aid is measured for:

- a) RF immunity in microphone mode
- b) RF immunity in T-coil mode

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## 2. Testing Laboratory

|                 |                                                                       |
|-----------------|-----------------------------------------------------------------------|
| Company Name    | SGS Taiwan Ltd. Electronics & Communication Laboratory                |
| Company address | 134, Wu Kung Road, Wuku Industrial Zone Taipei county, Taiwan, R.O.C. |
| Telephone       | +886-2-2299-3279                                                      |
| Fax             | +886-2-2298-0488                                                      |
| Website         | <a href="http://www.tw.sgs.com">http://www.tw.sgs.com</a>             |

### Revision history of Report

| Version Number | Description                 | Date       |
|----------------|-----------------------------|------------|
| 1.0            | Original copy               | 2008.09.30 |
| 1.1            | Retest AWS band channel 425 | 2008.10.06 |

## 3. Details of Applicant / Manufacturer

### 3.1 Details of Applicant

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Applicant Name    | Nokia Inc.                                      |
| Applicant Address | 12278 Scripps Summit Dr. San Diego CA92131, USA |

### 3.2 Details of Manufacturer

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Manufacturer Name    | Compal Communications(Nanjing)Co., Ltd                                         |
| Manufacturer Address | Nanjing Jiangning Export Processing Zone (South Area)<br>No.68-2 Suyuan Street |

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## 4. Description Of EUT

|                                    |                                                                                                 |        |         |
|------------------------------------|-------------------------------------------------------------------------------------------------|--------|---------|
| EUT Type                           | CDMA2000 1xRTT Mobile Phone                                                                     |        |         |
| Mode(s) of Operation               | CDMA2000 Tri band                                                                               |        |         |
| FCC ID                             | QMNRH-120                                                                                       |        |         |
| Hardware Version                   | 3000                                                                                            |        |         |
| Software Version                   | GB_1700T_GEN                                                                                    |        |         |
| TX Frequency range                 | CDMA2000 Cellular :824~849 MHz<br>CDMA2000 AWS :1710~1755 MHz<br>CDMA2000 US PCS :1850~1910 MHz |        |         |
| RX Frequency range                 | CDMA2000 Cellular :869~894 MHz<br>CDMA2000 AWS :2110~2155 MHz<br>CDMA2000 US PCS :1930~1990 MHz |        |         |
| Channel Number (ARFCN)             | 1013-777                                                                                        | 25-875 | 25-1175 |
| Maximum Output Power Setting (dBm) | Cellular                                                                                        | AWS    | US PCS  |
|                                    | 24.18                                                                                           | 23.97  | 24.00   |
| Duty Cycle                         | 1                                                                                               |        |         |
| Radio configuration                | RC3 SO32 ( +F -SCH)                                                                             |        |         |
| MEID                               | A0000001591F903                                                                                 |        |         |

## 5. Test Environment

|                     |         |
|---------------------|---------|
| Ambient Temperature | 22.2° C |
| Relative Humidity   | <60 %   |

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## 6. System Specifications of DASY4

### 6.1 Measurement system Diagram for SPEAG Robotic

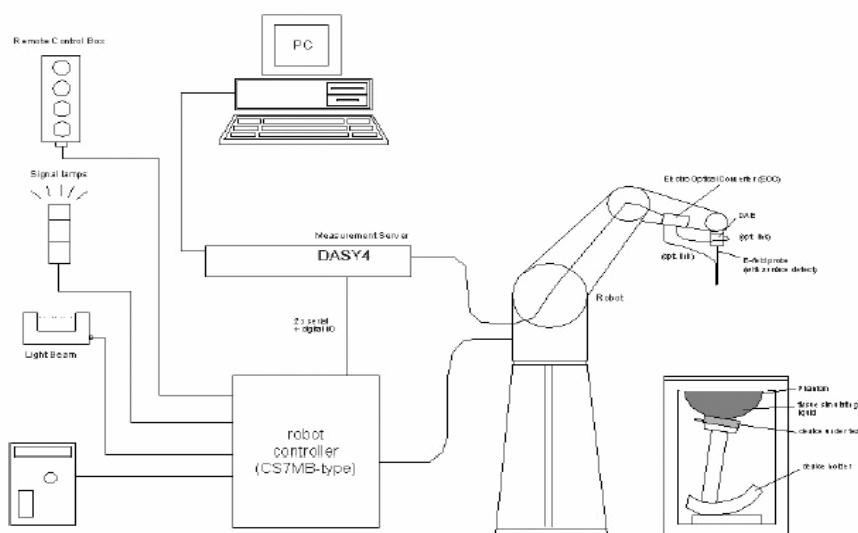


Fig 1. The SPEAG Robotic Diagram

The DASY4 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Staubli RX family) with controller, teach pendant and software. An arm extension is for accommodating the data acquisition electronics (DAE).
- A Auto Magnetic probe.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 2000 or Windows XP.
- DASY4 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The Test Arch SAM phantom

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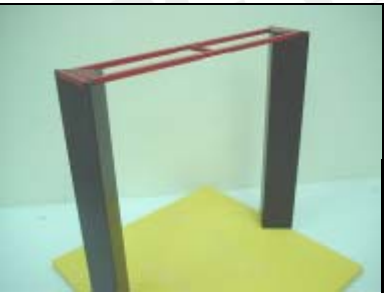
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- The device holder for handheld mobile phones.
- Validation dipole kits allowing to validate the proper functioning of the system.

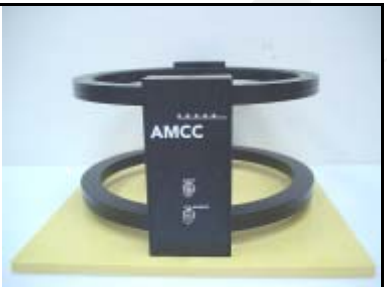
## 6.2 Audio Magnetic Probe AM1DV2

|               |                                                                                                                                              |                                                                                                           |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Description   | - Active single sensor probe for both axial and radial measurement scans<br>- Fully RF shielded, compatible with DAE, with adapted probe cup | <br>AM1DV2 Audio Probe |
| Dynamic Range | 0.1 KHz to 20 KHz                                                                                                                            |                                                                                                           |
| Sensitivity   | <-50dB A/m @ 1KHz                                                                                                                            |                                                                                                           |
| Pre-Amp       | 40dB                                                                                                                                         |                                                                                                           |
| Dimensions    | 300X18mm                                                                                                                                     |                                                                                                           |

## 6.3 Test Arch

|             |                                                                                                                        |                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Description | Enables easy and well defined positioning of the phone and validation dipoles as well as simple teaching of the robot. | <br>Test Arch |
| Dimensions  | length: 370 mm<br>width: 370 mm<br>height: 370 mm                                                                      |                                                                                                    |

## 6.4 AMCC- Audio Magnetic Calibration Coil

|             |                                                                                                                                                                                         |                                                                                               |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Description | Allows calibration of the complete measurement setup, The two horizontal coils create a homogeneous magnetic field in the z direction. Refer to Appendix 5 for more detail on AMCC coil | <br>AMCC |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|

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## 6.5 Phone Holder

|             |                                                                                          |                                                                                                     |
|-------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Description | Supports accurate and reliable positioning of any phone Effect on near field <+/- 0.5 dB | <br>Phone Holder |
|-------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

## 6.6 AMMI - Audio Magnetic Measurement Instrument

|               |                                                                                                                                                                                                                                                                                                   |                                                                                              |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Description   | <ul style="list-style-type: none"> <li>-USB interface to PC</li> <li>- Probe signal digitization and power supply</li> <li>- Test signal generation for wireless device (via base station simulator)</li> <li>- Auto-calibration and interfaces to AMCC for complete setup-calibration</li> </ul> | <br>AMMI |
| Data Rate     | 48 KHz / 24bit                                                                                                                                                                                                                                                                                    |                                                                                              |
| Dynamic Range | 85 dB                                                                                                                                                                                                                                                                                             |                                                                                              |
| Dimensions:   | 19" X 65 X 270mm                                                                                                                                                                                                                                                                                  |                                                                                              |

## 7. Measurement Procedure

The sequence of the measurement is T-Coil testing procedure over a wireless communication device:

- 1) Confirm Geometry & signal check. Probe phantom alignment and check of accuracy.
- 2) Background noise measurement in the area of the WD.
- 3) Perform coarse resolution axial scan with narrow band signal. For the three orientation positions, using the optimal ABM1 point from the coarse resolution axial scan, perform fine resolution scans in the area of interest with narrow band signal.
- 4) For the three orientation positions, using the optimal SNR point from corresponding fine resolution area scans, perform point measurement with a narrowband signal – determine ABM1 and SNR. For Axial position, perform point measurement with a broadband signal –

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determine Frequency Response.

## 8. System Verification

An Input Level is measured to verify that it is within  $\pm 0.1\text{dB}$  from the Reference Input Level in section 6.3.2.1 of ANSI C63.19-2007

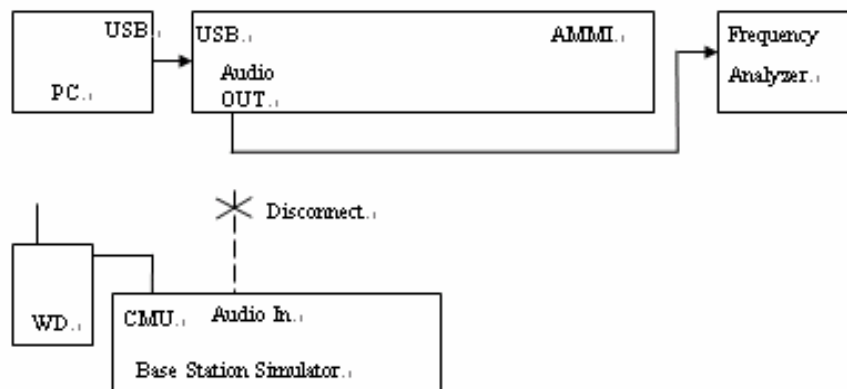


Figure 2: Signal Verification Setup

"Audio Out" of the AMMI is connected to the Bruel & Kjaar 3560C analyzer. On the analyzer, the "Input User ref" is set to the "0dBm0 Input reference" value to account for CMU's inherent offset values (refer to Note 1 at the bottom of this page). A signal from AMMI is initiated by running the appropriate DASY template. The template includes both broadband and narrowband signals. The signal is captured on the analyzer. The value from the analyzer is compared to the target given in 6.3.2.1 of ANSI C63.19-2007. If it is not within  $\pm 0.1\text{dB}$ , the gains setting in the DASY template are adjusted.

Signal Verification has been conducted on the same days as DUT measurements.

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## 9. Test Standards and Limits

The measurements were performed to ensure compliance to the ANSI C63.19-2007 standard, which is the same as FCC public notice DA 06-1215.

The limit values please follow in Table2

Table 2: Signal Quality Range

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

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## 10. Instruments List

| Manufacturer                    | Device                        | Type                 | Serial Number | Date Of Last Calibration    |
|---------------------------------|-------------------------------|----------------------|---------------|-----------------------------|
| Schmid & Partner Engineering AG | Data acquisition Electronics  | DAE4                 | 547           | Jan.24.2008                 |
| Schmid & Partner Engineering AG | Software                      | DASY 4 V4.7 Build 71 | N/A           | Calibration isn't necessary |
| Schmid & Partner Engineering AG | Audio Magnetic 1D Field Probe | AM1DV2               | 1030          | Apr.16.2008                 |
| Schmid & Partner Engineering AG | AMMI SE UMS                   | 010 AB               | 1028          | Calibration isn't necessary |
| Schmid & Partner Engineering AG | AMCC SD HAC                   | P01 BA               | 1026          | N/A                         |
| Schmid & Partner Engineering AG | Test Arch SD HAC              | P01                  | 1047          | N/A                         |
| R&S                             | Radio Communication Test      | CMU200               | 113508        | Sep.03.2008                 |
| B&K                             | Frequency Analyzer            | 3560C                | 2430788       | Mar.22.2008                 |

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## 11. Summary of Results

### Cellular Band:

| Probe Position | Frequency Band (MHz) | Channel | Conducted Output Power (dBm) | Ambient Noise (dB A/m) | ABM1 (dB A/m) | SNR (dB) | T-coil SNR Rating |
|----------------|----------------------|---------|------------------------------|------------------------|---------------|----------|-------------------|
| Axial          | Cellular             | 1013    | 24.13                        | -28.3                  | -0.091        | 28.2     | T3                |
|                |                      | 384     | 24.17                        | -30.49                 | -0.349        | 30.1     | T4                |
|                |                      | 777     | 24.18                        | -29.31                 | 0.391         | 29.7     | T3                |
| Radial 1       | Cellular             | 1013    | 24.13                        | -30.53                 | -7.06         | 26.8     | T3                |
|                |                      | 384     | 24.17                        | -32.54                 | -6.65         | 27.7     | T3                |
|                |                      | 777     | 24.18                        | -32.05                 | -6.45         | 27.4     | T3                |
| Radial 2       | Cellular             | 1013    | 24.13                        | -37.69                 | -6.95         | 36       | T4                |
|                |                      | 384     | 24.17                        | -40.3                  | -7.1          | 36.5     | T4                |
|                |                      | 777     | 24.18                        | -38.41                 | -6.58         | 36.6     | T4                |

### AWS Band:

| Probe Position | Frequency Band (MHz) | Channel | Conducted Output Power (dBm) | Ambient Noise (dB A/m) | ABM1 (dB A/m) | SNR (dB) | T-coil SNR Rating |
|----------------|----------------------|---------|------------------------------|------------------------|---------------|----------|-------------------|
| Axial          | AWS                  | 25      | 23.94                        | -29.62                 | 2.33          | 29.2     | T3                |
|                |                      | 425     | 23.97                        | -29.39                 | 0.578         | 33.3     | T4                |
|                |                      | 875     | 23.91                        | -29.8                  | 0.415         | 30.2     | T4                |
| Radial 1       | AWS                  | 25      | 23.94                        | -33                    | -6.49         | 27.7     | T3                |
|                |                      | 425     | 23.97                        | -33.58                 | -5.63         | 29.6     | T3                |
|                |                      | 875     | 23.91                        | -33.04                 | -6            | 28.6     | T3                |
| Radial 2       | AWS                  | 25      | 23.94                        | -40.26                 | -6.73         | 36.2     | T4                |
|                |                      | 425     | 23.97                        | -40.59                 | -6.02         | 39.6     | T4                |
|                |                      | 875     | 23.91                        | -38.79                 | -5.98         | 38.3     | T4                |

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**US PCS Band:**

| Probe Position | Frequency Band (MHz) | Channel | Conducted Output Power (dBm) | Ambient Noise (dB A/m) | ABM1 (dB A/m) | SNR (dB) | T-coil SNR Rating |
|----------------|----------------------|---------|------------------------------|------------------------|---------------|----------|-------------------|
| Axial          | US PCS               | 25      | 23.88                        | -33.59                 | -0.192        | 33.4     | T4                |
|                |                      | 600     | 23.87                        | -33.6                  | -2.49         | 31.1     | T4                |
|                |                      | 1175    | 24.00                        | -32.08                 | 0.205         | 32.3     | T4                |
| Radial 1       | US PCS               | 25      | 23.88                        | -34.96                 | -7.29         | 28.2     | T3                |
|                |                      | 600     | 23.87                        | -33.69                 | -6.46         | 28.2     | T3                |
|                |                      | 1175    | 24.00                        | -34.35                 | -7.21         | 28.1     | T3                |
| Radial 2       | US PCS               | 25      | 23.88                        | -43.24                 | -7.63         | 38.4     | T4                |
|                |                      | 600     | 23.87                        | -42.31                 | -7.1          | 37.8     | T4                |
|                |                      | 1175    | 24.00                        | -43                    | -7.7          | 38.4     | T4                |

Note: The ABM1, SNR and T-coil Rating results are shown in Section 11. The delta between Ambient Noise measurement and ABM2 measurement should be greater than 10dB. However, in cases where ABM2 is very low, it is suitable for the delta to be less than 10 dB. For the three probe positions, noise spectrum plots for the highest ambient noise, indicated with bold numbers.

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## 12. Measurement Data

Date: 2008/9/22

### T-Coil\_Cellular\_CH 1013

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 824.7 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

#### Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = 1.82 dB A/m  
BWC Factor = 0.170982 dB  
Location: 0, 0, 363.7 mm

#### Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 2.05 dB A/m  
BWC Factor = 0.170982 dB  
Location: 0, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm  
**Cursor:**  
ABM1 comp = -0.091 dB A/m  
BWC Factor = 10.8 dB  
Location: 0, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 28.2 dB  
ABM1 comp = -0.091 dB A/m  
BWC Factor = 10.8 dB  
Location: 0, 2, 363.7 mm

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## Scans/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: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

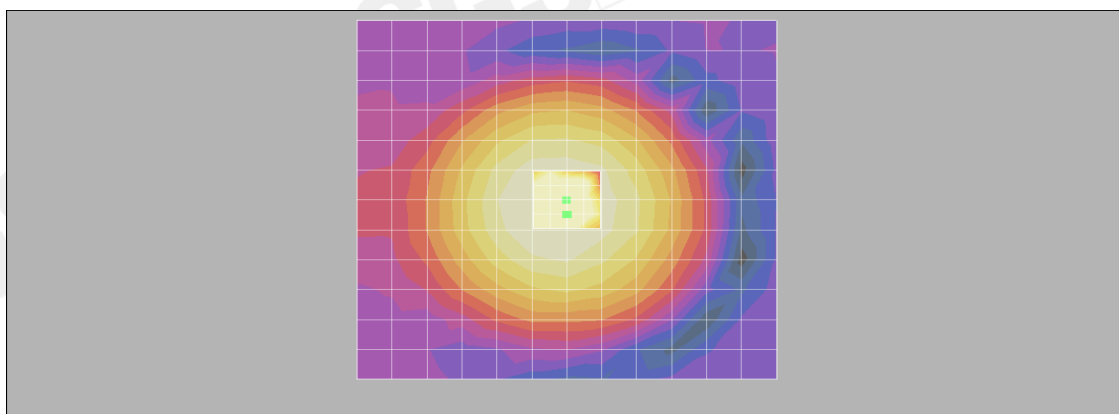
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

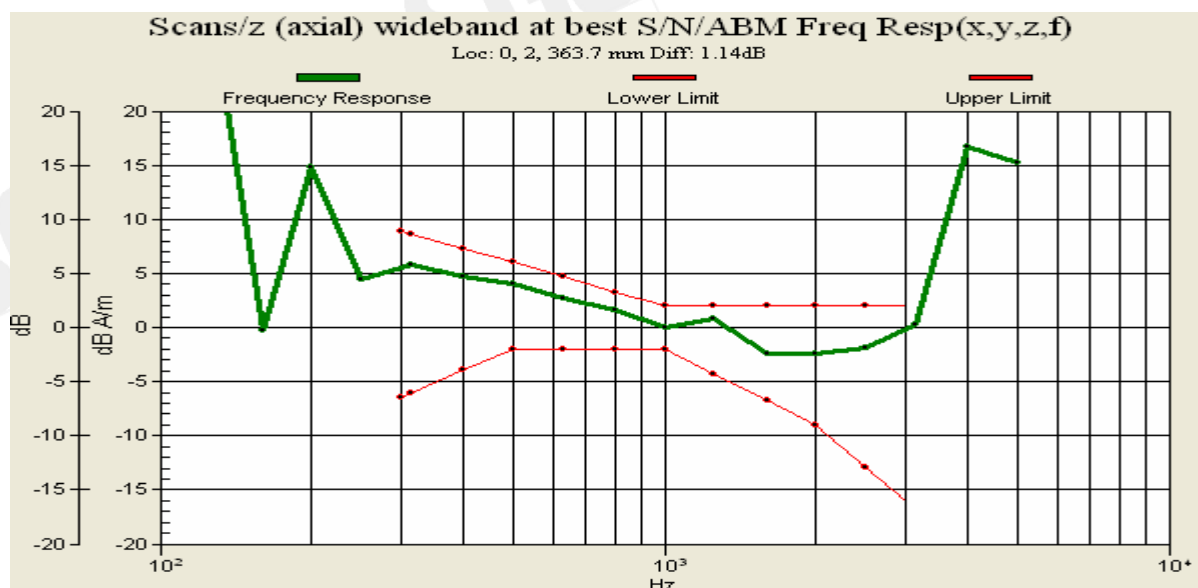
Diff = 1.14 dB

BWC Factor = 10.8 dB

Location: 0, 2, 363.7 mm



0 dB = 1.00A/m



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Date: 2008/9/22

## T-Coil\_Cellular\_CH 1013

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 824.7 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.89 dB A/m  
BWC Factor = 0.170982 dB  
Location: -8.3, 0, 363.7 mm

### Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.170982 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -7.06 dB A/m

BWC Factor = 0.170982 dB

Location: 8.5, 2.2, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.170982 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

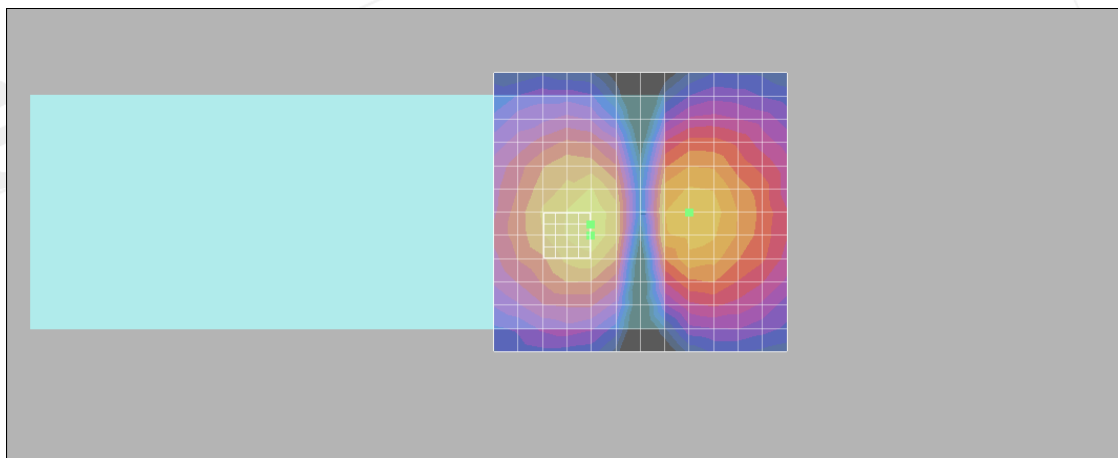
**Cursor:**

ABM1/ABM2 = 26.8 dB

ABM1 comp = -7.31 dB A/m

BWC Factor = 0.170982 dB

Location: 8.5, 4.2, 363.7 mm



0 dB = 1.00A/m

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Date 2008/9/22

## T-Coil\_Cellular\_CH 1013

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 824.7 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/y (transversal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.78 dB A/m  
BWC Factor = 0.170982 dB  
Location: 0, -8.3, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

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**Cursor:**

ABM1 comp = -6.95 dB A/m

BWC Factor = 0.170982 dB

Location: 0, -8.2, 363.7 mm

**Scans/y (transversal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.170982 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

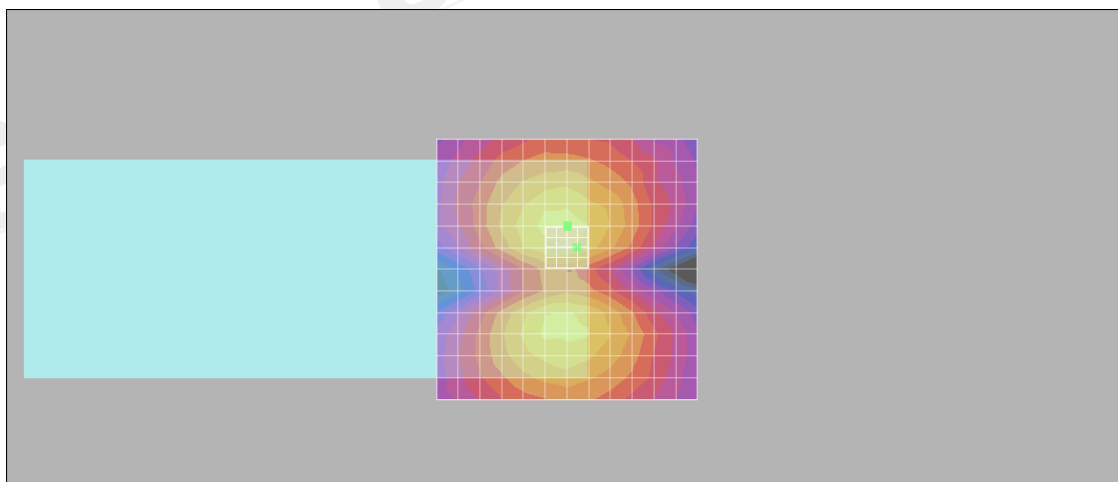
**Cursor:**

ABM1/ABM2 = 36.0 dB

ABM1 comp = -8.27 dB A/m

BWC Factor = 0.170982 dB

Location: -2, -4.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_Cellular\_CH384

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 836.52 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

ABM1 comp = 1.41 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, 0, 363.7 mm

### Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 1.49 dB A/m  
BWC Factor = 0.172003 dB  
Location: -0.2, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm  
**Cursor:**  
ABM1 comp = -0.349 dB A/m  
BWC Factor = 10.8 dB  
Location: -2.2, 0, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 30.1 dB  
ABM1 comp = -0.349 dB A/m  
BWC Factor = 10.8 dB  
Location: -2.2, 0, 363.7 mm

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## Scans/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: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

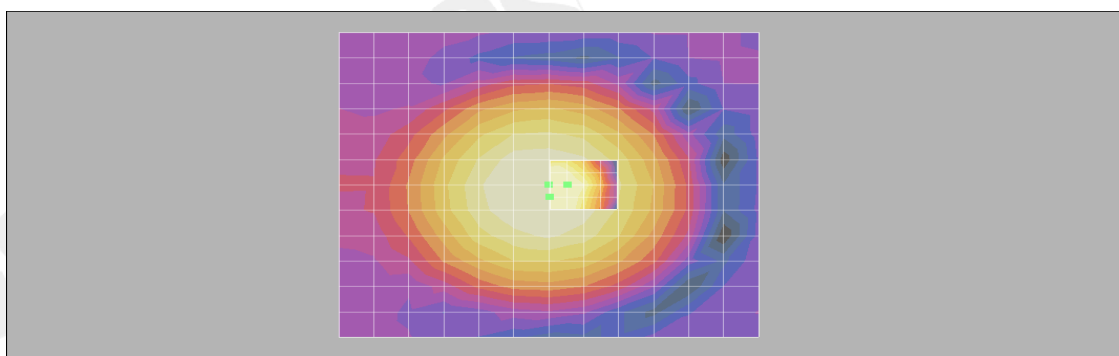
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

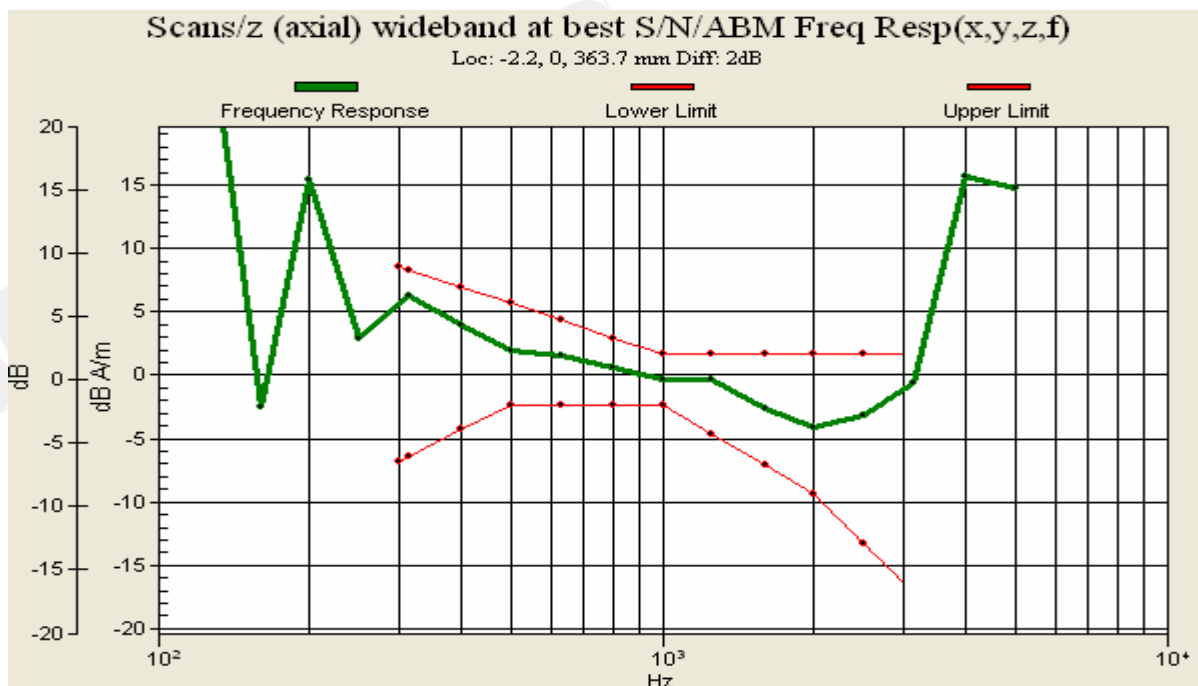
Diff = 2.00 dB

BWC Factor = 10.8 dB

Location: -2.2, 0, 363.7 mm



0 dB = 1.00A/m



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Date: 2008/9/22

## T-Coil\_Cellular\_CH384

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 836.52 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.29 dB A/m  
BWC Factor = 0.172003 dB  
Location: -8.3, 0, 363.7 mm

### Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -6.65 dB A/m

BWC Factor = 0.172003 dB

Location: -8.3, 0, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

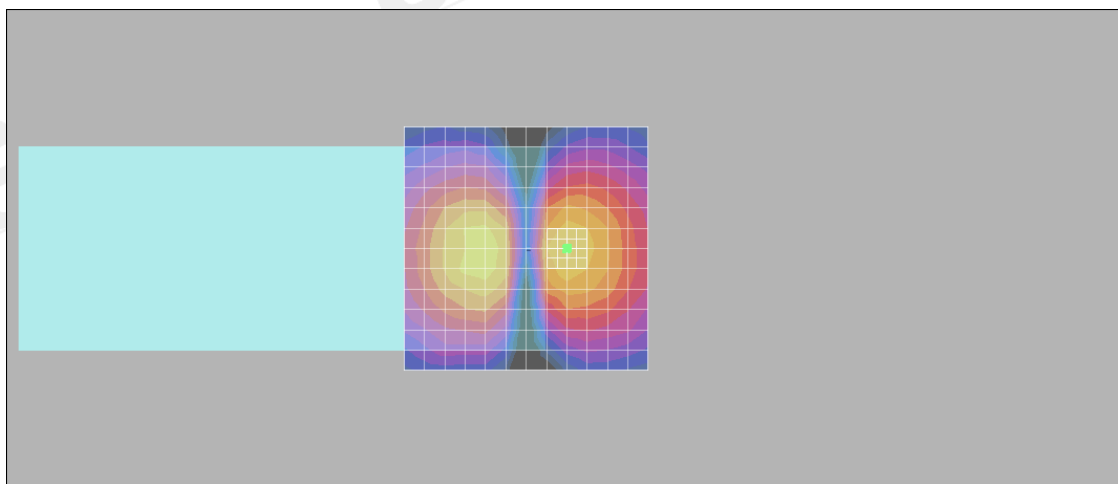
**Cursor:**

ABM1/ABM2 = 27.7 dB

ABM1 comp = -6.65 dB A/m

BWC Factor = 0.172003 dB

Location: -8.3, 0, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_Cellular\_CH384

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 836.52 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/y (transversal) 4.2mm 50 x 50 / ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -7.28 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, 12.5, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 / ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -7.10 dB A/m

BWC Factor = 0.172003 dB

Location: -0.2, -6.2, 363.7 mm

**Scans/y (transversal) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

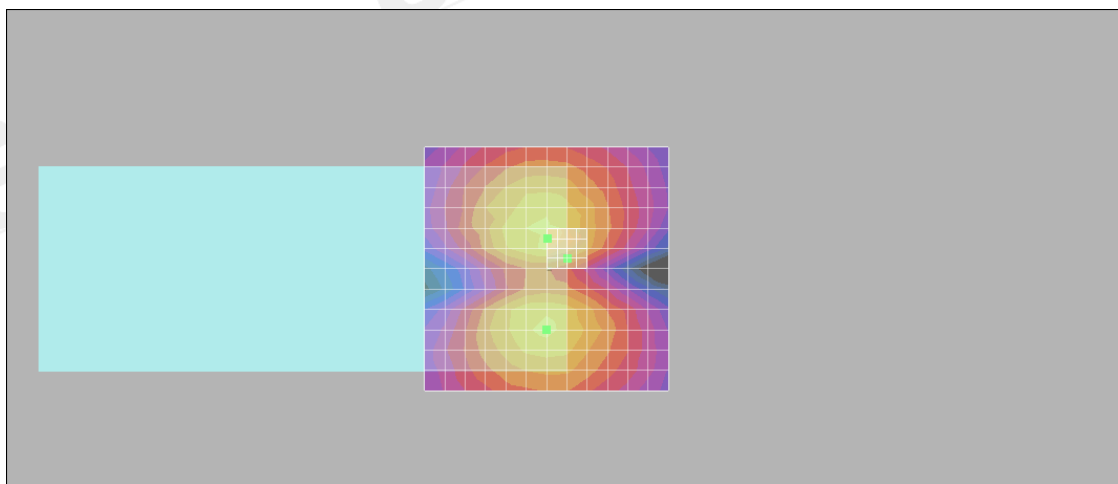
**Cursor:**

ABM1/ABM2 = 36.5 dB

ABM1 comp = -11.8 dB A/m

BWC Factor = 0.172003 dB

Location: -4.2, -2.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_Cellular\_CH777

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 848.31 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = 1.31 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, 4.2, 363.7 mm

### Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 1.57 dB A/m  
BWC Factor = 0.172003 dB  
Location: -0.2, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm  
**Cursor:**  
ABM1 comp = 0.391 dB A/m  
BWC Factor = 10.8 dB  
Location: -0.2, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 29.7 dB  
ABM1 comp = 0.391 dB A/m  
BWC Factor = 10.8 dB  
Location: -0.2, 2, 363.7 mm

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## Scans/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: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

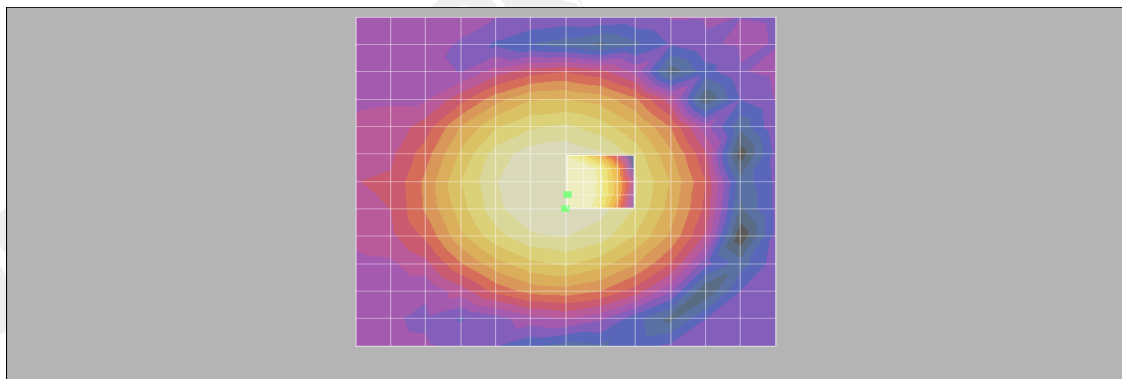
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

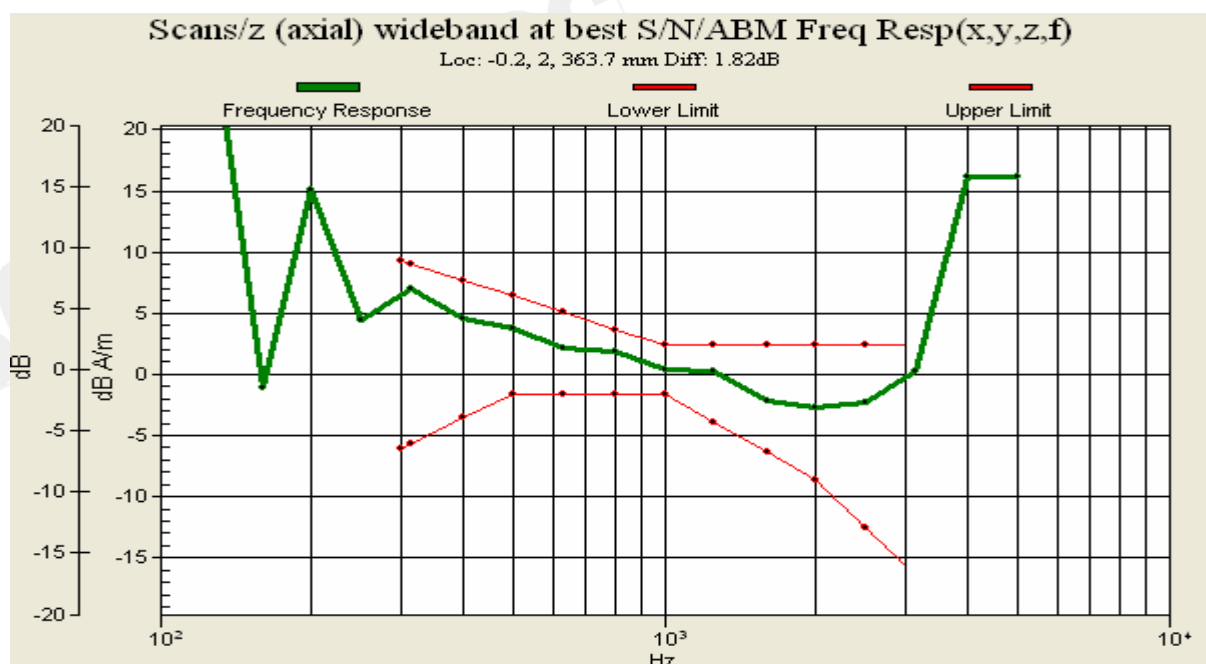
Diff = 1.82 dB

BWC Factor = 10.8 dB

Location: -0.2, 2, 363.7 mm



0 dB = 1.00A/m



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Date: 2008/9/22

## T-Coil\_Cellular\_CH777

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 848.31 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.41 dB A/m  
BWC Factor = 0.172003 dB  
Location: -8.3, 0, 363.7 mm

### Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -6.45 dB A/m

BWC Factor = 0.172003 dB

Location: -8.3, 2, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

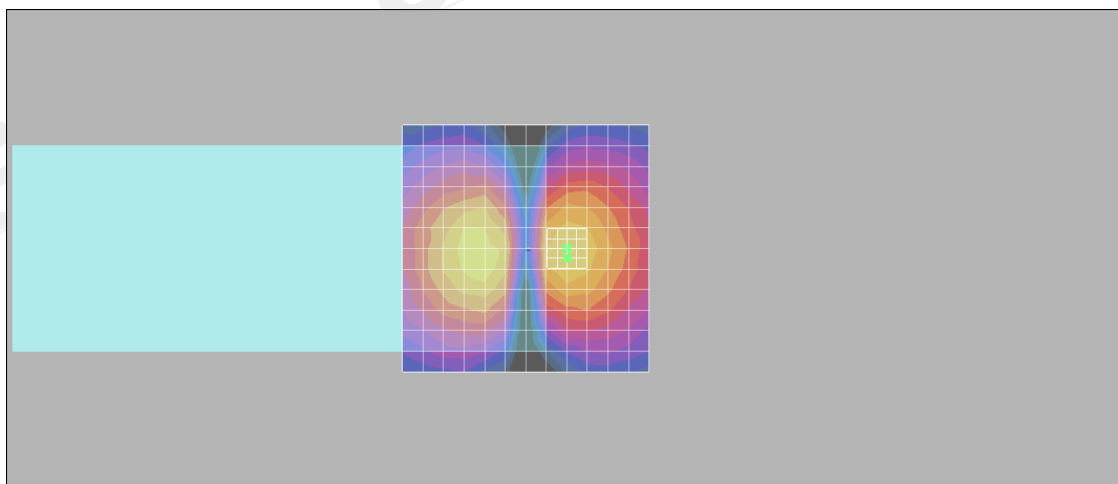
**Cursor:**

ABM1/ABM2 = 27.4 dB

ABM1 comp = -6.78 dB A/m

BWC Factor = 0.172003 dB

Location: -8.3, 0, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_Cellular\_CH777

**DUT: RH-120;**

Communication System: CDMA\_850; Frequency: 848.31 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/y (transversal) 4.2mm 50 x 50 / ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -7.33 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, -8.3, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 / ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -6.58 dB A/m

BWC Factor = 0.172003 dB

Location: 0, -6.2, 363.7 mm

**Scans/y (transversal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

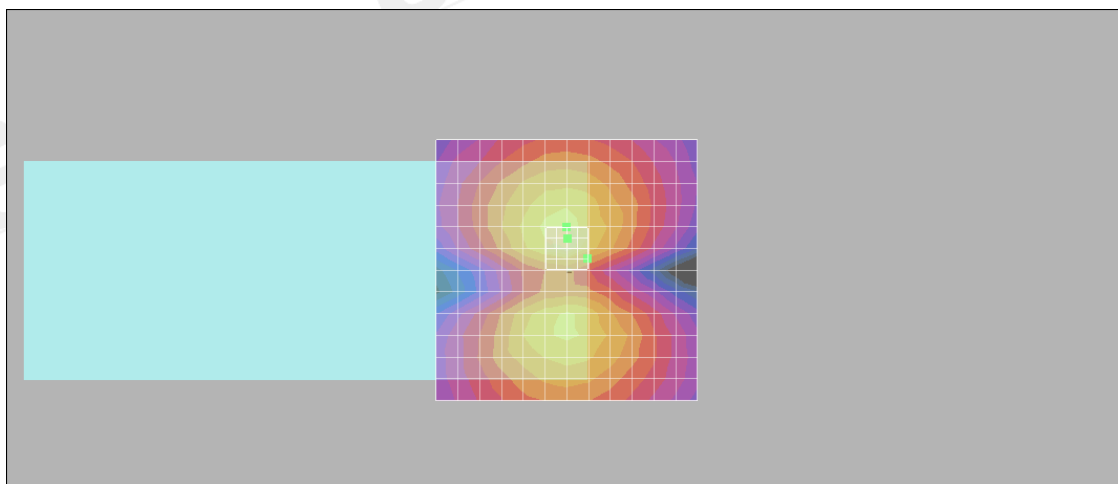
**Cursor:**

ABM1/ABM2 = 36.6 dB

ABM1 comp = -11.8 dB A/m

BWC Factor = 0.172003 dB

Location: -4, -2.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/23

## T-Coil\_AWS\_CH25

**DUT: RH-120;**

Communication System: AWS; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.173025 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

ABM1 comp = 1.81 dB A/m  
BWC Factor = 0.173025 dB  
Location: 0, 4.2, 363.7 mm

### Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.173025 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 2.33 dB A/m  
BWC Factor = 0.173025 dB  
Location: 0, 2.2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 29.2 dB  
ABM1 comp = -0.383 dB A/m  
BWC Factor = 10.8 dB  
Location: -2, 2.2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -0.383 dB A/m  
BWC Factor = 10.8 dB  
Location: -2, 2.2, 363.7 mm

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## Scans/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: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

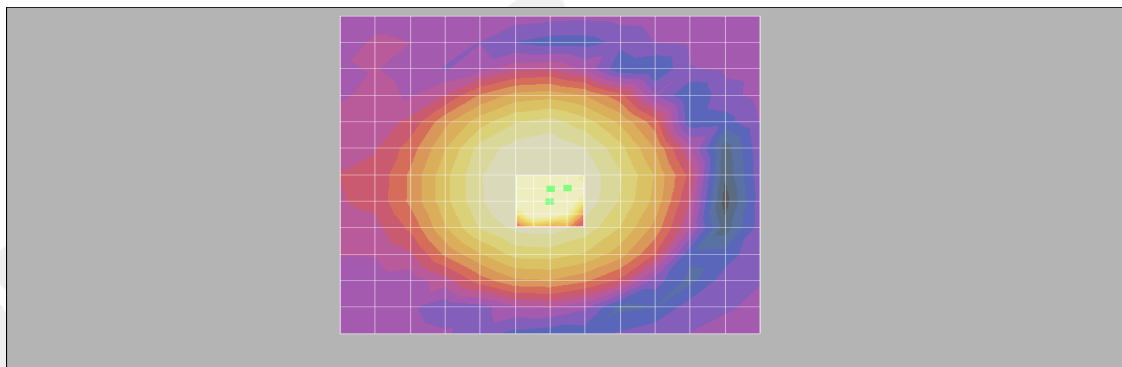
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

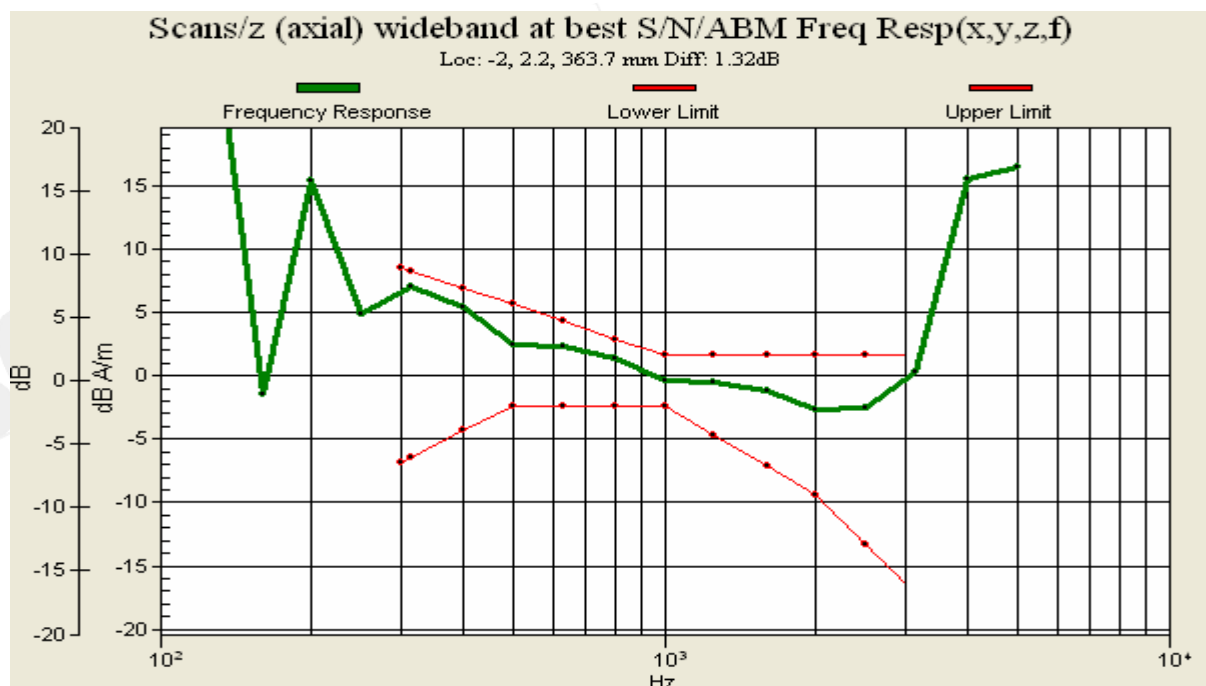
Diff = 1.32 dB

BWC Factor = 10.8 dB

Location: -2, 2.2, 363.7 mm



0 dB = 1.00A/m



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Date: 2008/9/23

## T-Coil\_AWS\_CH25

**DUT: RH-120;**

Communication System: AWS; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

**DASY4 Configuration:**

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### **Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.173025 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### **Cursor:**

ABM1 comp = -6.42 dB A/m  
BWC Factor = 0.173025 dB  
Location: 8.3, 4.2, 363.7 mm

### **Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.173025 dB  
 Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -6.49 dB A/m

BWC Factor = 0.173025 dB

Location: 8.4, 0.2, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.173025 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

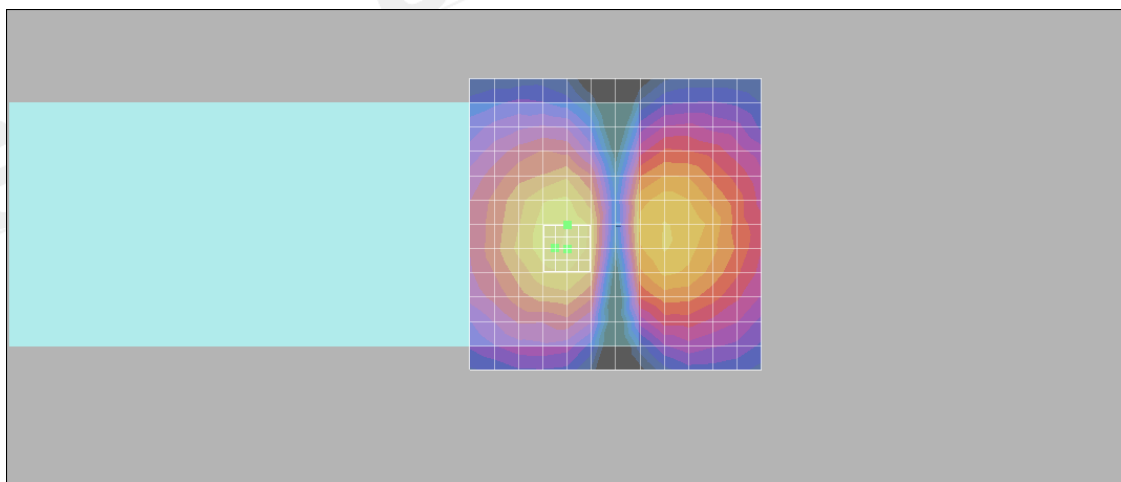
**Cursor:**

ABM1/ABM2 = 27.7 dB

ABM1 comp = -6.80 dB A/m

BWC Factor = 0.173025 dB

Location: 10.4, 4.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/23

## T-Coil\_AWS\_CH25

**DUT: RH-120;**

Communication System: AWS; Frequency: 1711.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/y (transversal) 4.2mm 50 x 50 / ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.173025 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.38 dB A/m  
BWC Factor = 0.173025 dB  
Location: 0, -8.3, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 / ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.173025 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -6.73 dB A/m

BWC Factor = 0.173025 dB

Location: -2.2, 12.3, 363.7 mm

**Scans/y (transversal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.173025 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

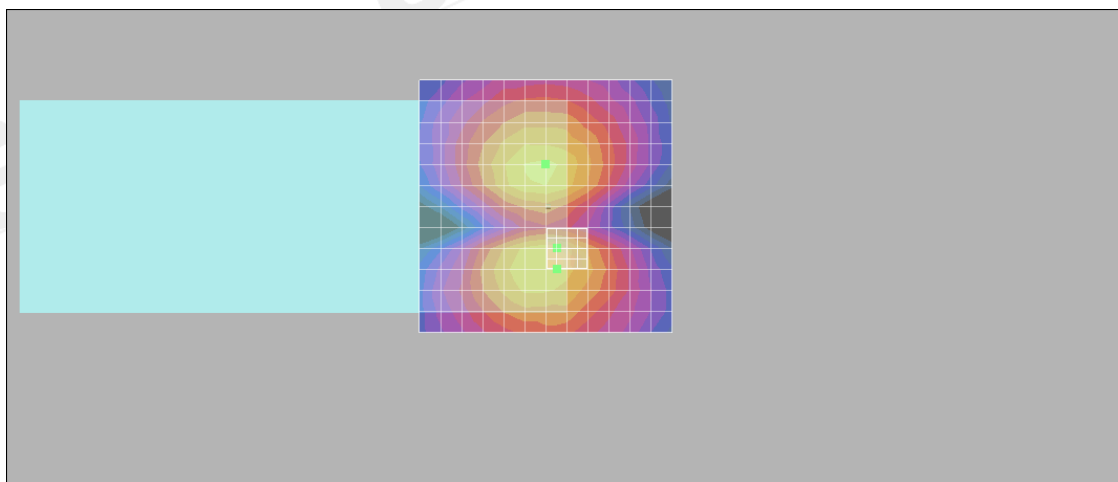
**Cursor:**

ABM1/ABM2 = 36.2 dB

ABM1 comp = -8.26 dB A/m

BWC Factor = 0.173025 dB

Location: -2.2, 8.3, 363.7 mm



0 dB = 1.00A/m

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Date/Time: 2008/10/6

## T-Coil\_AWS\_CH425

**DUT: RH-120;**

Communication System: AWS; Frequency: 1731.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.169022 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

ABM1 comp = 1.94 dB A/m  
BWC Factor = 0.169022 dB  
Location: 0, 4.2, 363.7 mm

### Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.169022 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 1.81 dB A/m  
BWC Factor = 0.169022 dB  
Location: 4, 2.2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm  
**Cursor:**  
ABM1 comp = 0.578 dB A/m  
BWC Factor = 10.8 dB  
Location: -2, 0.2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 33.3 dB  
ABM1 comp = 0.578 dB A/m  
BWC Factor = 10.8 dB  
Location: -2, 0.2, 363.7 mm

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## Scans/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: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

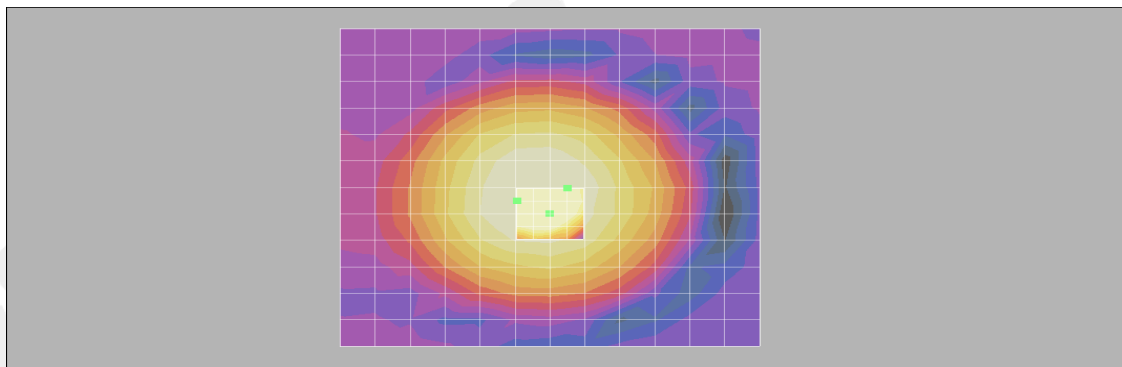
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

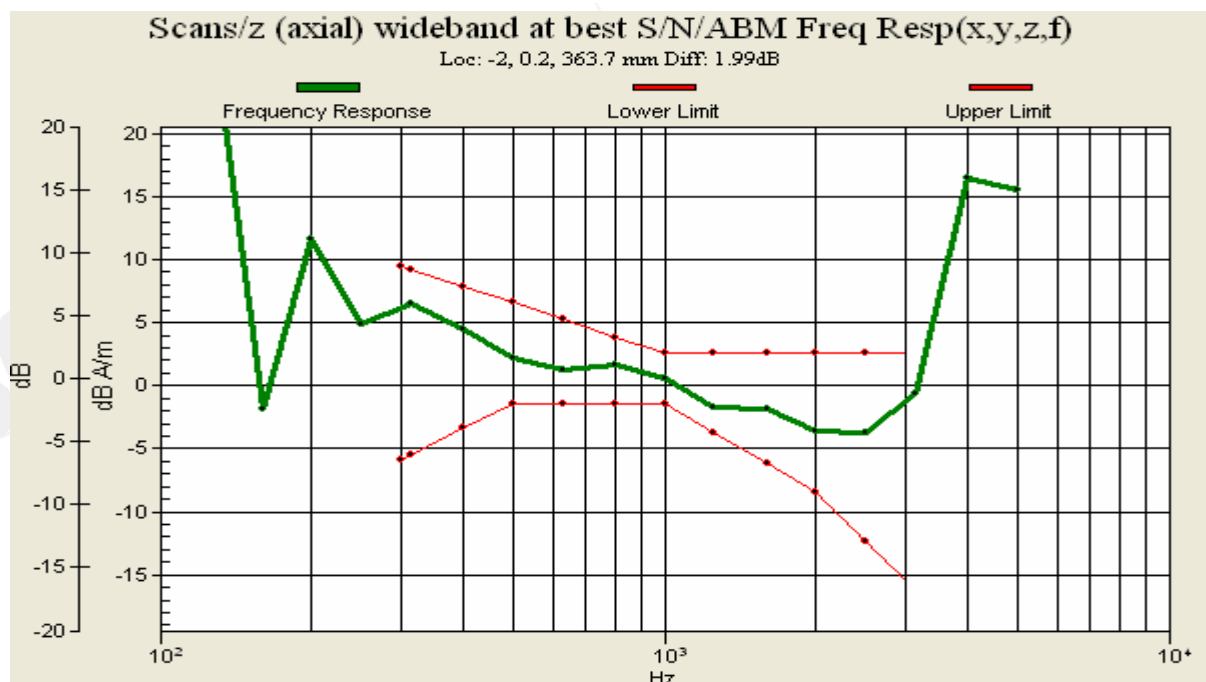
Diff = 1.99 dB

BWC Factor = 10.8 dB

Location: -2, 0.2, 363.7 mm



0 dB = 1.00A/m



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Date/Time: 2008/10/6

## T-Coil\_AWS\_CH425

**DUT: RH-120;**

Communication System: AWS; Frequency: 1731.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

**DASY4 Configuration:**

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### **Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.169022 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### **Cursor:**

ABM1 comp = -6.23 dB A/m  
BWC Factor = 0.169022 dB  
Location: 8.3, 4.2, 363.7 mm

### **Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.169022 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -5.63 dB A/m

BWC Factor = 0.169022 dB

Location: -8.3, 0.2, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.169022 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

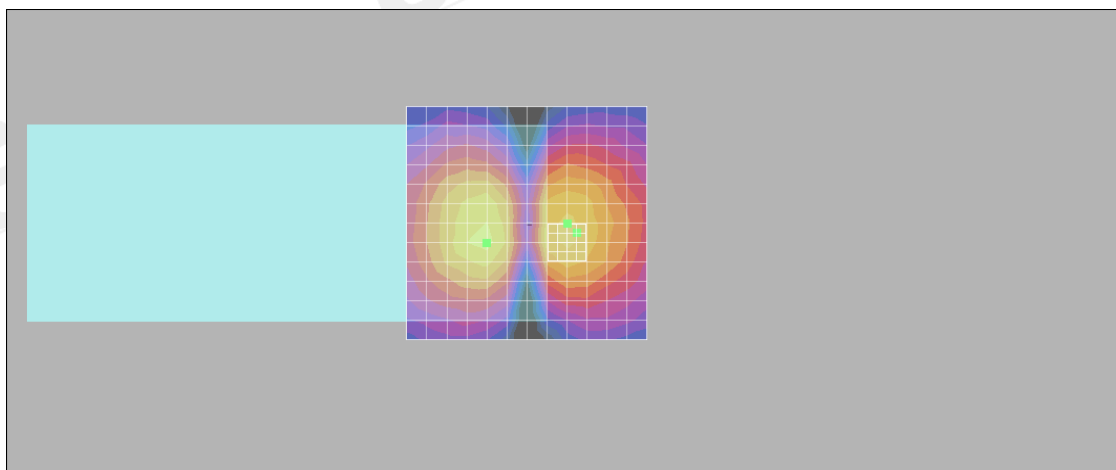
**Cursor:**

ABM1/ABM2 = 29.6 dB

ABM1 comp = -6.48 dB A/m

BWC Factor = 0.169022 dB

Location: -10.3, 2.2, 363.7 mm



0 dB = 1.00A/m

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Date/Time: 2008/10/6

## T-Coil\_AWS\_CH425

**DUT: RH-120;**

Communication System: AWS; Frequency: 1731.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/y (transversal) 4.2mm 50 x 50 / ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.169022 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.18 dB A/m  
BWC Factor = 0.169022 dB  
Location: 0, -8.3, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 / ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.169022 dB  
 Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -6.02 dB A/m  
 BWC Factor = 0.169022 dB  
 Location: 2, -8.2, 363.7 mm

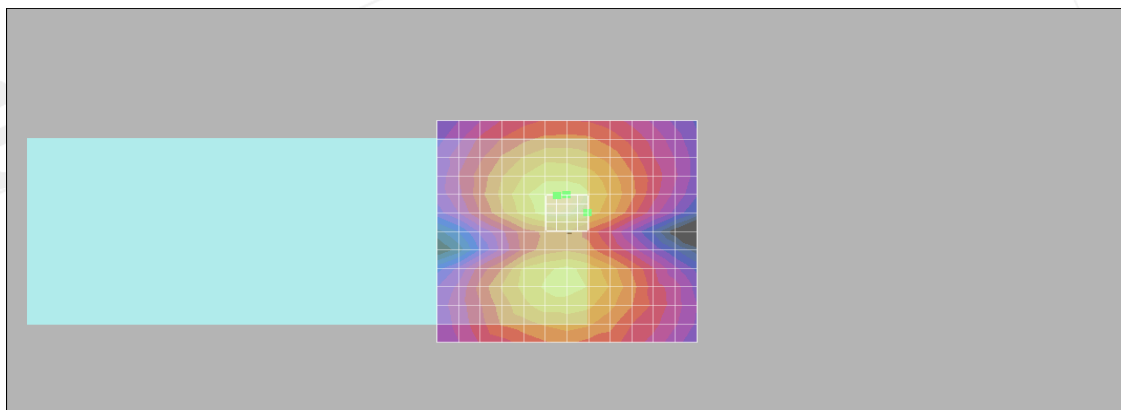
**Scans/y (transversal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 Output Gain: 32.4816  
 Measure Window Start: 0ms  
 Measure Window Length: 1000ms  
 BWC applied: 0.169022 dB  
 Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 39.6 dB  
 ABM1 comp = -8.12 dB A/m  
 BWC Factor = 0.169022 dB  
 Location: -4, -4.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/23

## T-Coil\_AWS\_CH875

**DUT: RH-120;**

Communication System: AWS; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

ABM1 comp = 1.90 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, 0, 363.7 mm

### Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 2.56 dB A/m

BWC Factor = 0.172003 dB

Location: 2, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 0.415 dB A/m

BWC Factor = 10.8 dB

Location: 0, 0, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav

Output Gain: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 30.2 dB

ABM1 comp = 0.415 dB A/m

BWC Factor = 10.8 dB

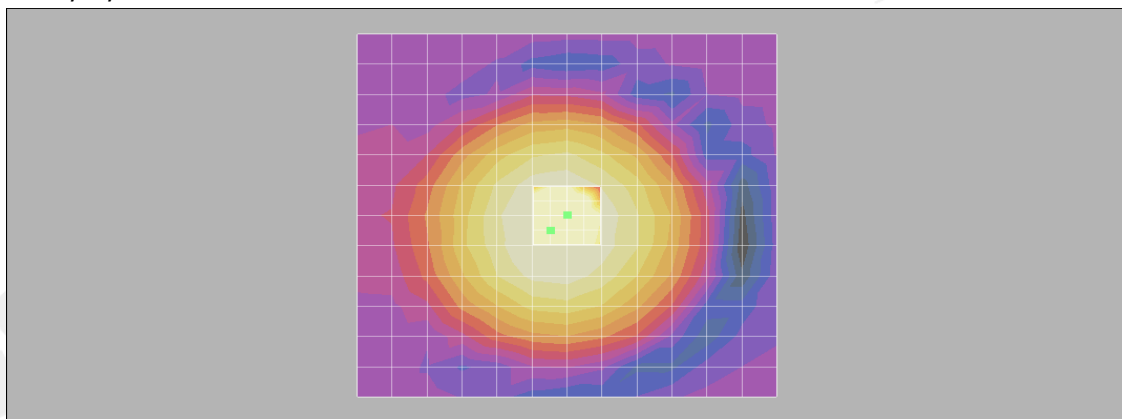
Location: 0, 0, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1):**

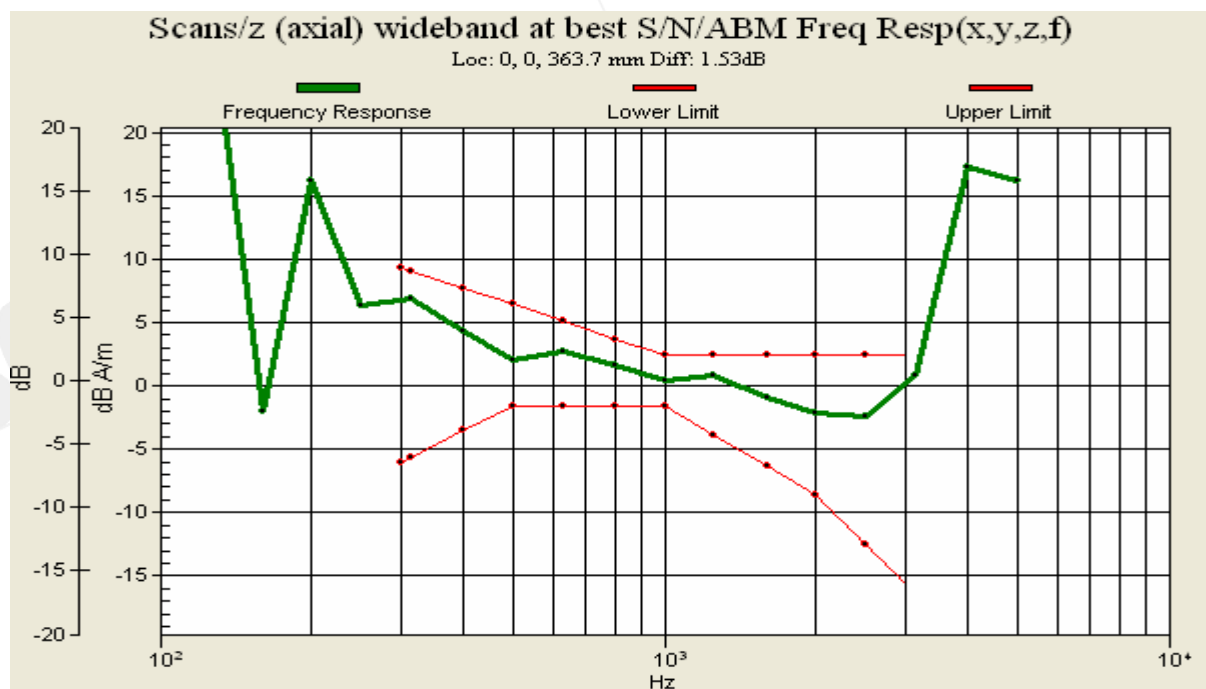
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Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
 Output Gain: 63.613  
 Measure Window Start: 0ms  
 Measure Window Length: 2000ms  
 BWC applied: 10.8 dB  
 Device Reference Point: 0.000, 0.000, 353.7 mm  
**Cursor:**  
 Diff = 1.53 dB  
 BWC Factor = 10.8 dB  
 Location: 0, 0, 363.7 mm



0 dB = 1.00A/m



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Date: 2008/9/23

## T-Coil\_AWS\_CH875

**DUT: RH-120;**

Communication System: AWS; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.27 dB A/m  
BWC Factor = 0.172003 dB  
Location: -8.3, 4.2, 363.7 mm

### Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -6.00 dB A/m

BWC Factor = 0.172003 dB

Location: -8.3, 2.2, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

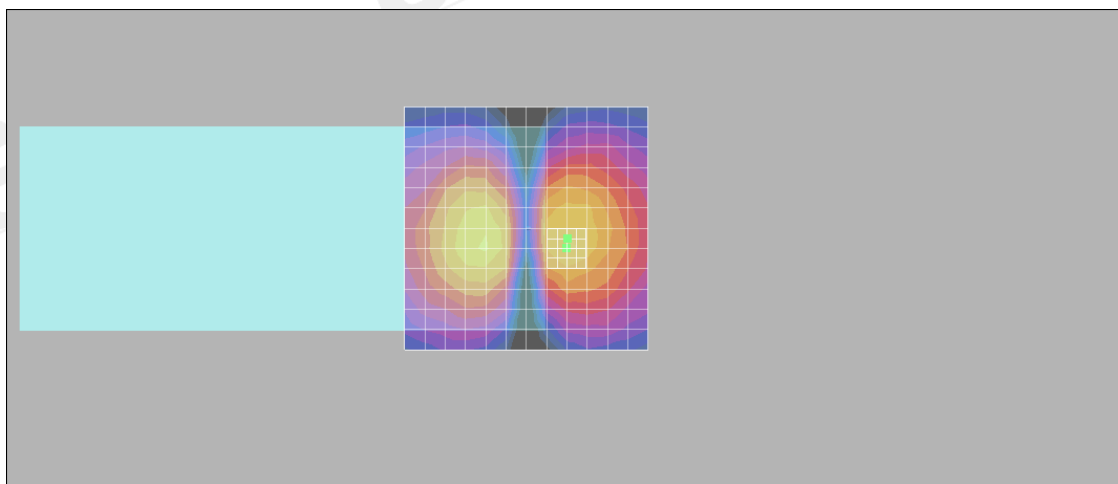
**Cursor:**

ABM1/ABM2 = 28.6 dB

ABM1 comp = -6.00 dB A/m

BWC Factor = 0.172003 dB

Location: -8.3, 2.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/23

## T-Coil\_AWS\_CH875

**DUT: RH-120;**

Communication System: AWS; Frequency: 1753.75 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/y (transversal) 4.2mm 50 x 50 / ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.09 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, -4.2, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 / ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -5.98 dB A/m

BWC Factor = 0.172003 dB

Location: 0, -6.2, 363.7 mm

**Scans/y (transversal) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

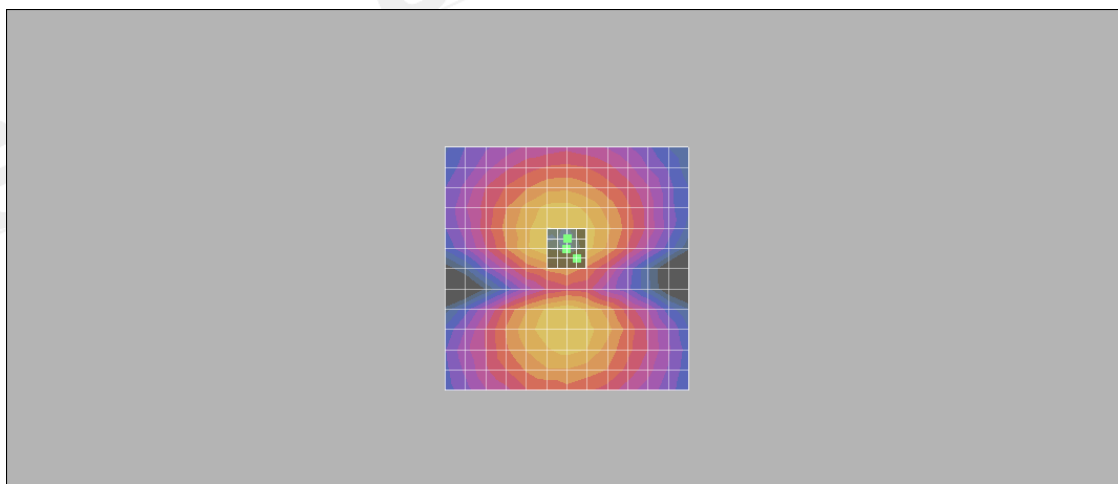
**Cursor:**

ABM1/ABM2 = 38.3 dB

ABM1 comp = -8.84 dB A/m

BWC Factor = 0.172003 dB

Location: -2, -2.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_US PCS\_CH25

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1851.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

ABM1 comp = 1.02 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, 0, 363.7 mm

### Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 1.34 dB A/m  
BWC Factor = 0.172003 dB  
Location: -0.2, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm  
**Cursor:**  
ABM1 comp = -0.192 dB A/m  
BWC Factor = 10.8 dB  
Location: -2.2, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 33.4 dB  
ABM1 comp = -0.192 dB A/m  
BWC Factor = 10.8 dB  
Location: -2.2, 2, 363.7 mm

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## Scans/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: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

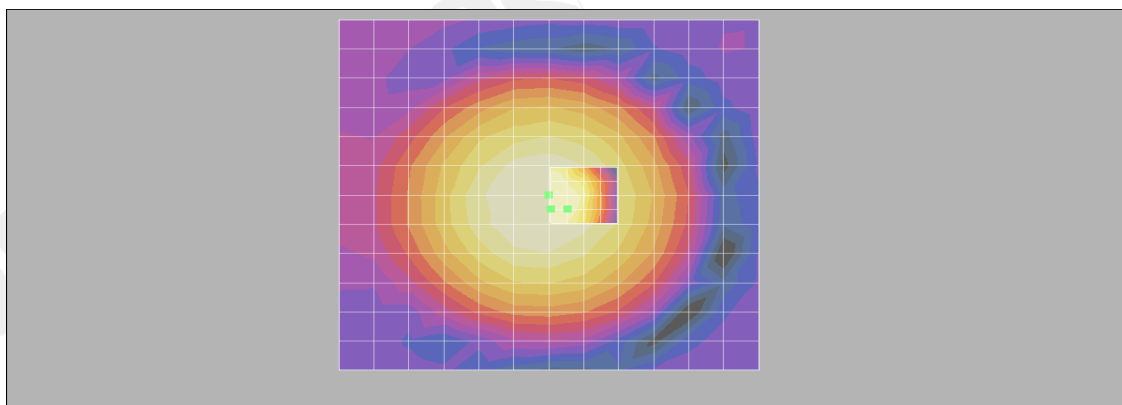
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

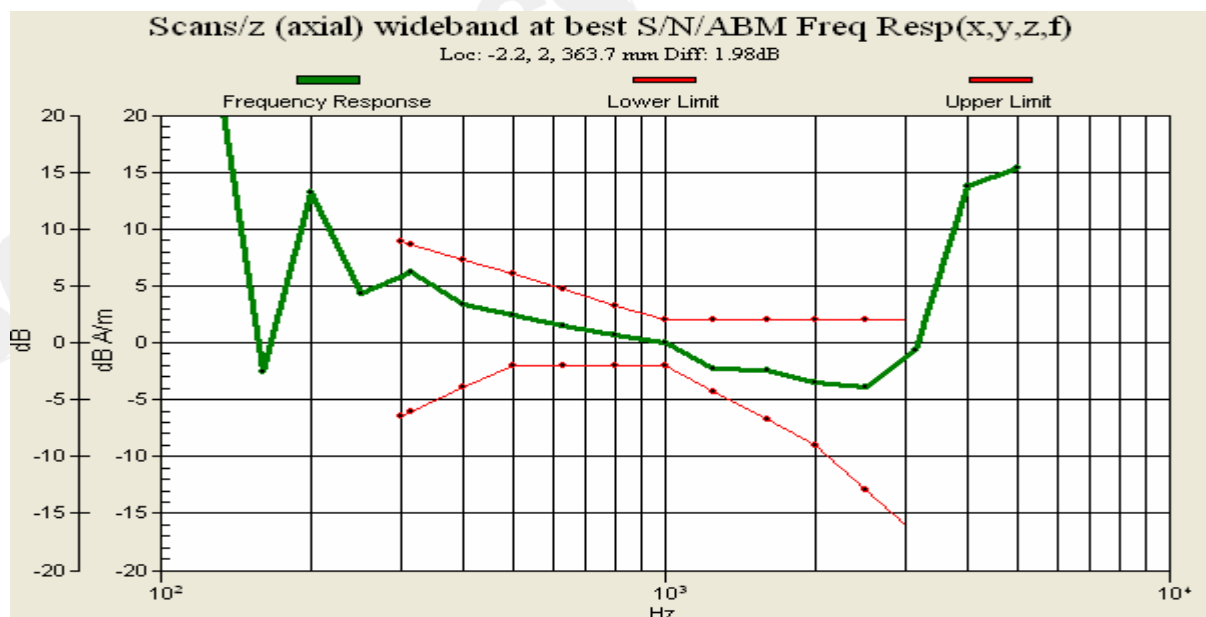
Diff = 1.98 dB

BWC Factor = 10.8 dB

Location: -2.2, 2, 363.7 mm



0 dB = 1.00A/m



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Date: 2008/9/22

## T-Coil\_US PCS\_CH25

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1851.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -7.06 dB A/m  
BWC Factor = 0.172003 dB  
Location: -8.3, 0, 363.7 mm

### Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -7.29 dB A/m

BWC Factor = 0.172003 dB

Location: -8.5, 2, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

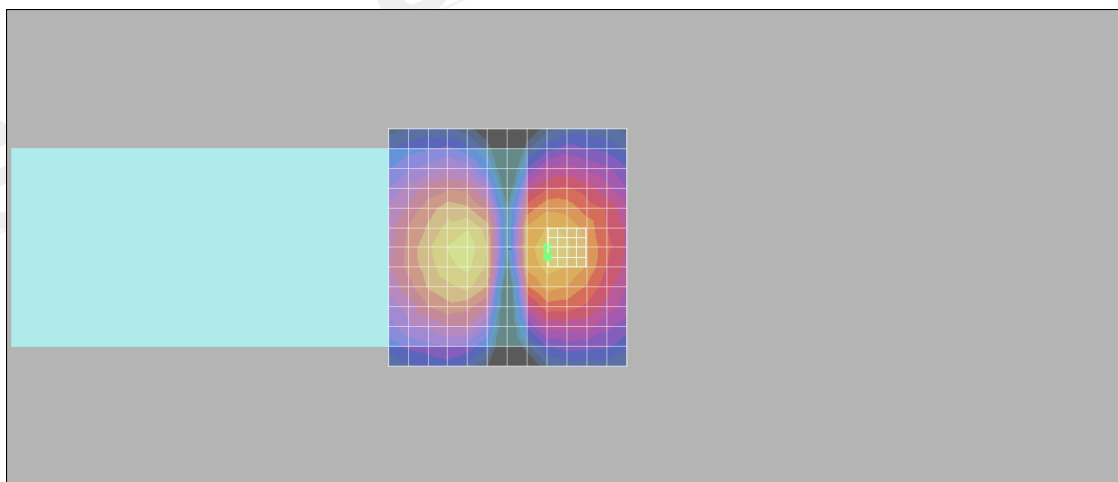
**Cursor:**

ABM1/ABM2 = 28.2 dB

ABM1 comp = -7.29 dB A/m

BWC Factor = 0.172003 dB

Location: -8.5, 2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_US PCS\_CH25

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1851.25 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/x (longitudinal) 4.2mm 50 x 50 / ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -7.06 dB A/m  
BWC Factor = 0.172003 dB  
Location: -8.3, 0, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 / ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB  
 Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -7.63 dB A/m  
 BWC Factor = 0.172003 dB  
 Location: -0.2, -8.2, 363.7 mm

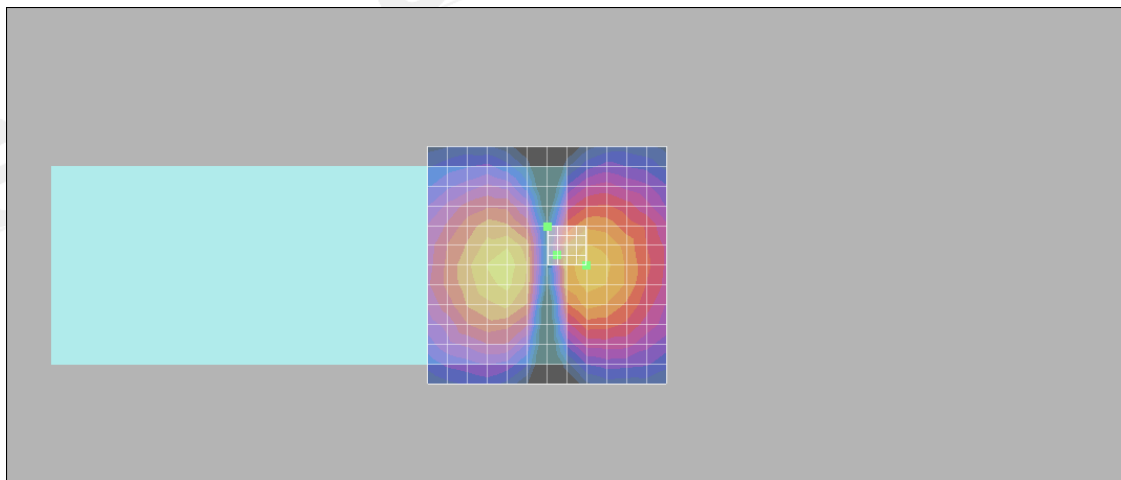
**Scans/y (transversal) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):**

Measurement grid: dx=10mm, dy=10mm  
 Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
 Output Gain: 32.4816  
 Measure Window Start: 0ms  
 Measure Window Length: 1000ms  
 BWC applied: 0.172003 dB  
 Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 38.4 dB  
 ABM1 comp = -11.3 dB A/m  
 BWC Factor = 0.172003 dB  
 Location: -2.2, -2.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_US PCS\_CH600

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

**DASY4 Configuration:**

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### **Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### **Cursor:**

ABM1 comp = 1.26 dB A/m  
BWC Factor = 0.170982 dB  
Location: 0, 0, 363.7 mm

### **Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 1.10 dB A/m  
BWC Factor = 0.170982 dB  
Location: 0, 2, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm  
**Cursor:**  
ABM1 comp = -2.49 dB A/m  
BWC Factor = 10.8 dB  
Location: -4, 0, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 31.1 dB  
ABM1 comp = -2.49 dB A/m  
BWC Factor = 10.8 dB  
Location: -4, 0, 363.7 mm

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## Scans/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: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

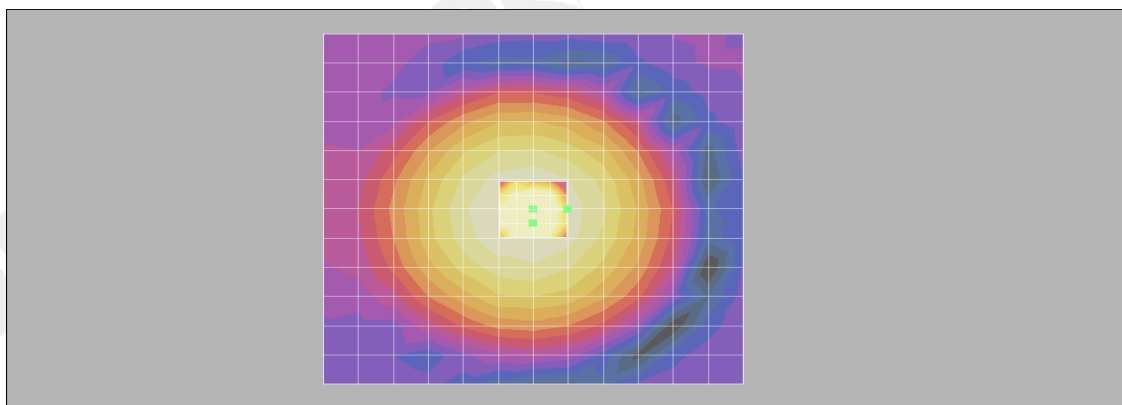
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

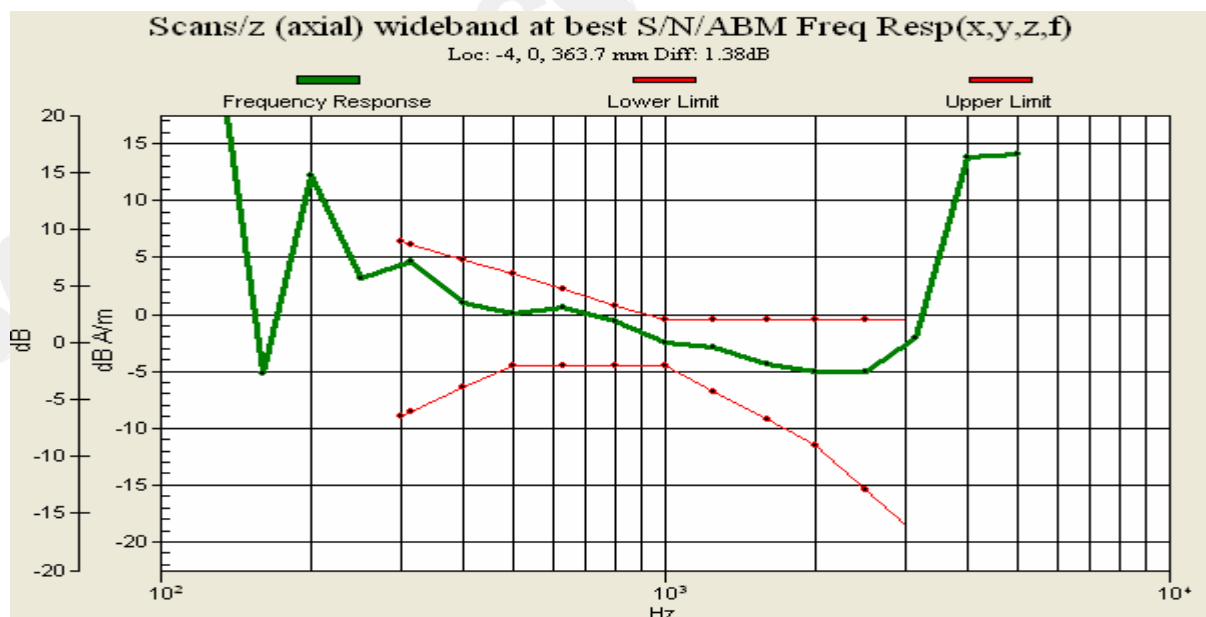
Diff = 1.38 dB

BWC Factor = 10.8 dB

Location: -4, 0, 363.7 mm



0 dB = 1.00A/m



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Date: 2008/9/22

## T-Coil\_US PCS\_CH600

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -7.15 dB A/m  
BWC Factor = 0.170982 dB  
Location: -8.3, 0, 363.7 mm

### Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.170982 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -6.46 dB A/m

BWC Factor = 0.170982 dB

Location: -8.3, 0, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.170982 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

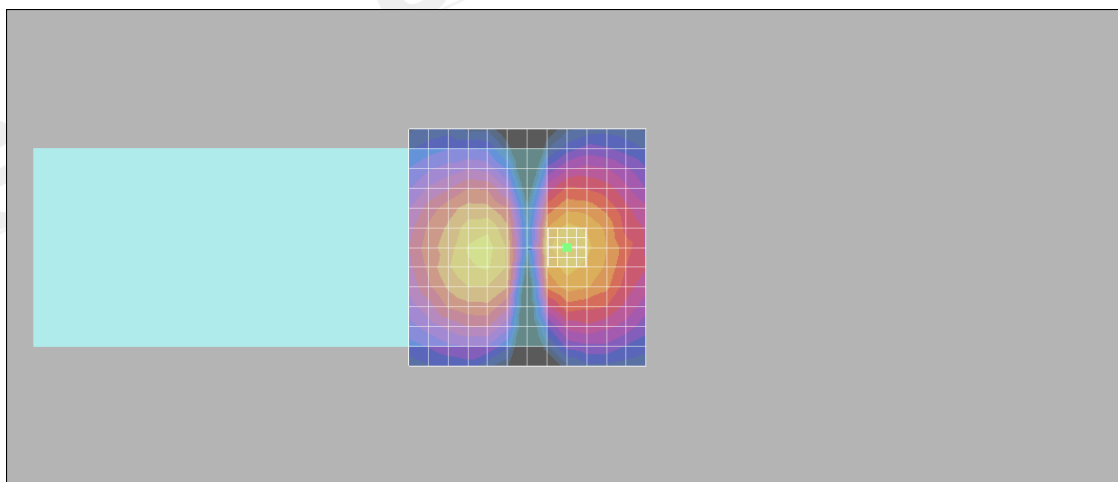
**Cursor:**

ABM1/ABM2 = 28.2 dB

ABM1 comp = -6.46 dB A/m

BWC Factor = 0.170982 dB

Location: -8.3, 0, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_US PCS\_CH600

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1880 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/y (transversal) 4.2mm 50 x 50 / ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.170982 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -7.20 dB A/m  
BWC Factor = 0.170982 dB  
Location: 0, -8.3, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 / ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.170982 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -7.10 dB A/m

BWC Factor = 0.170982 dB

Location: -0.2, -6.2, 363.7 mm

**Scans/y (transversal) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.170982 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

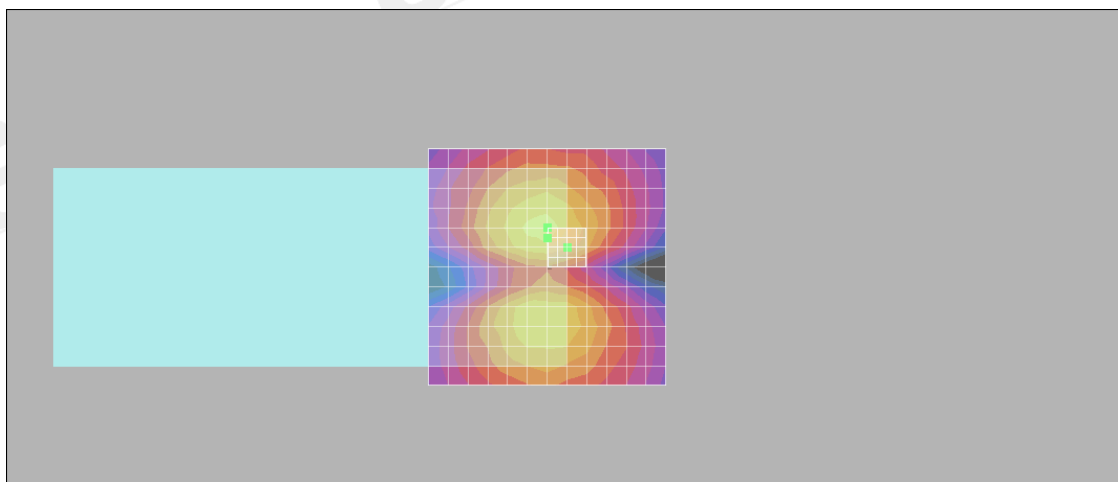
**Cursor:**

ABM1/ABM2 = 37.8 dB

ABM1 comp = -9.37 dB A/m

BWC Factor = 0.170982 dB

Location: -4.2, -4.2, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_US PCS\_CH1175

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1908.75 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/z (axial) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = 1.98 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, 0, 363.7 mm

### Scans/z (axial) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = 1.58 dB A/m  
BWC Factor = 0.172003 dB  
Location: 0, 0, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM Signal(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm  
**Cursor:**  
ABM1 comp = 0.205 dB A/m  
BWC Factor = 10.8 dB  
Location: 0, 0, 363.7 mm

**Scans/z (axial) wideband at best S/N/ABM SNR(x,y,z) (1x1x1):**

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_300-3000\_2s.wav  
Output Gain: 63.613  
Measure Window Start: 0ms  
Measure Window Length: 2000ms  
BWC applied: 10.8 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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:**

ABM1/ABM2 = 32.3 dB  
ABM1 comp = 0.205 dB A/m  
BWC Factor = 10.8 dB  
Location: 0, 0, 363.7 mm

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## Scans/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: 63.613

Measure Window Start: 0ms

Measure Window Length: 2000ms

BWC applied: 10.8 dB

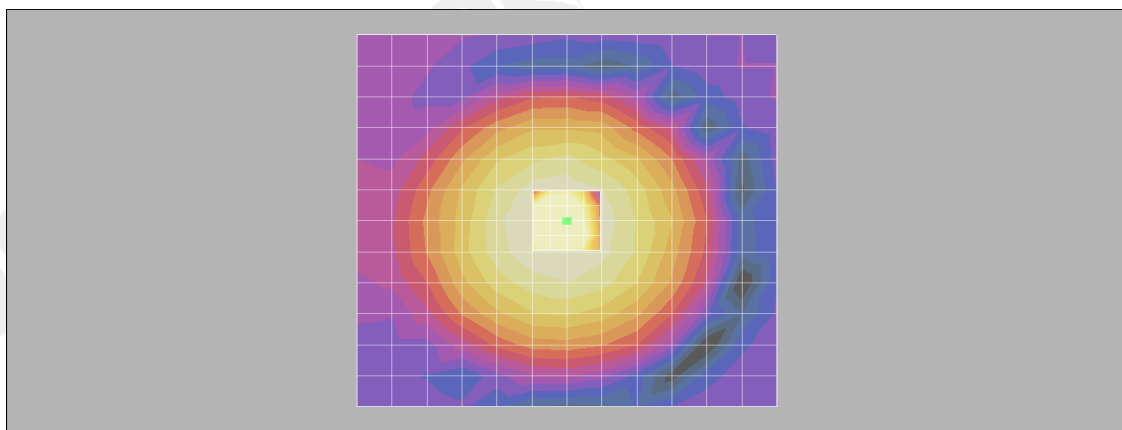
Device Reference Point: 0.000, 0.000, 353.7 mm

### Cursor:

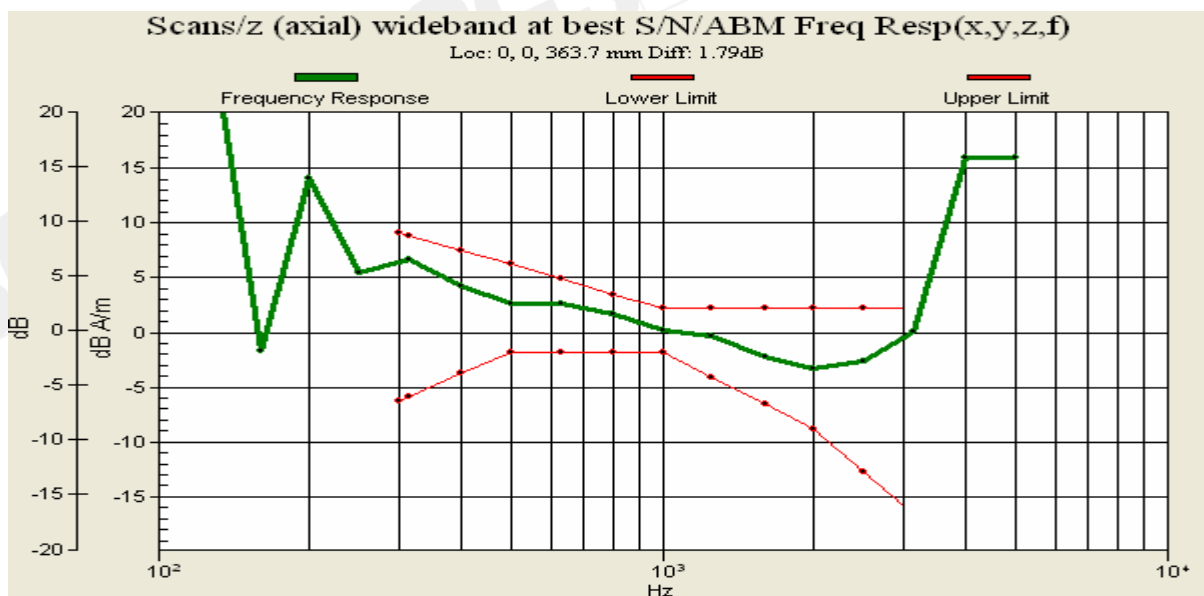
Diff = 1.79 dB

BWC Factor = 10.8 dB

Location: 0, 0, 363.7 mm



0 dB = 1.00A/m



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Date: 2008/9/22

## T-Coil\_US PCS\_CH 1175

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1908.75 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/x (longitudinal) 4.2mm 50 x 50 /ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -6.61 dB A/m  
BWC Factor = 0.172003 dB  
Location: -8.3, 0, 363.7 mm

### Scans/x (longitudinal) fine 2mm 8 x 8 /ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -7.21 dB A/m

BWC Factor = 0.172003 dB

Location: -8.3, 0, 363.7 mm

**Scans/x (longitudinal) fine 2mm 8 x 8 /ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

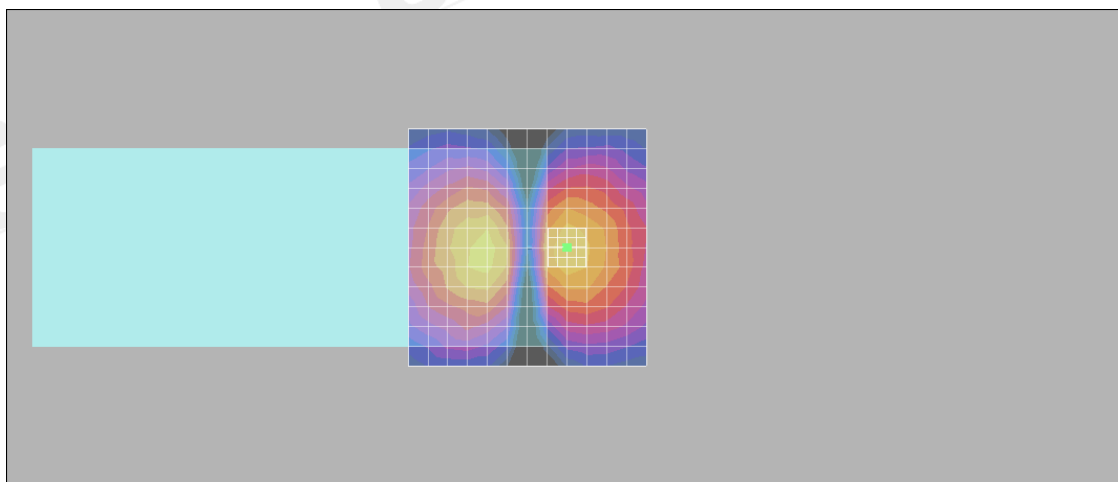
**Cursor:**

ABM1/ABM2 = 28.1 dB

ABM1 comp = -7.21 dB A/m

BWC Factor = 0.172003 dB

Location: -8.3, 0, 363.7 mm



0 dB = 1.00A/m

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Date: 2008/9/22

## T-Coil\_US PCS\_CH 1175

**DUT: RH-120;**

Communication System: CDMA2000; Frequency: 1908.75 MHz; Duty Cycle: 1:1  
Medium: Air Medium parameters used:  $\sigma = 0$  mho/m,  $\epsilon_r = 1$ ;  $\rho = 1$  kg/m<sup>3</sup>  
Phantom section: AMB with Coil Section

DASY4 Configuration:

- Probe: AM1DV2 - 1030; ; Calibrated: 2008/4/16
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn547; Calibrated: 2008/1/24
- Phantom: HAC Test Arch with Coil; Type: SD HAC P01 BA; Serial: 100x
- Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

### Scans/y (transversal) 4.2mm 50 x 50 / ABM Signal(x,y,z) (13x13x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms  
BWC applied: 0.172003 dB  
Device Reference Point: 0.000, 0.000, 353.7 mm

#### Cursor:

ABM1 comp = -7.73 dB A/m  
BWC Factor = 0.172003 dB  
Location: 4.2, -8.3, 363.7 mm

### Scans/y (transversal) fine 2mm 8 x 8 / ABM Signal(x,y,z) (5x5x1):

Measurement grid: dx=10mm, dy=10mm  
Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav  
Output Gain: 32.4816  
Measure Window Start: 0ms  
Measure Window Length: 1000ms

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BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

**Cursor:**

ABM1 comp = -7.70 dB A/m

BWC Factor = 0.172003 dB

Location: -0.2, -6.2, 363.7 mm

**Scans/y (transversal) fine 2mm 8 x 8/ABM SNR(x,y,z) (5x5x1):**

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

Signal Type: Audio File (.wav) 48k\_voice\_1kHz\_1s.wav

Output Gain: 32.4816

Measure Window Start: 0ms

Measure Window Length: 1000ms

BWC applied: 0.172003 dB

Device Reference Point: 0.000, 0.000, 353.7 mm

| Category    | Telephone parameters WD signal quality<br>[(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                                                                               |

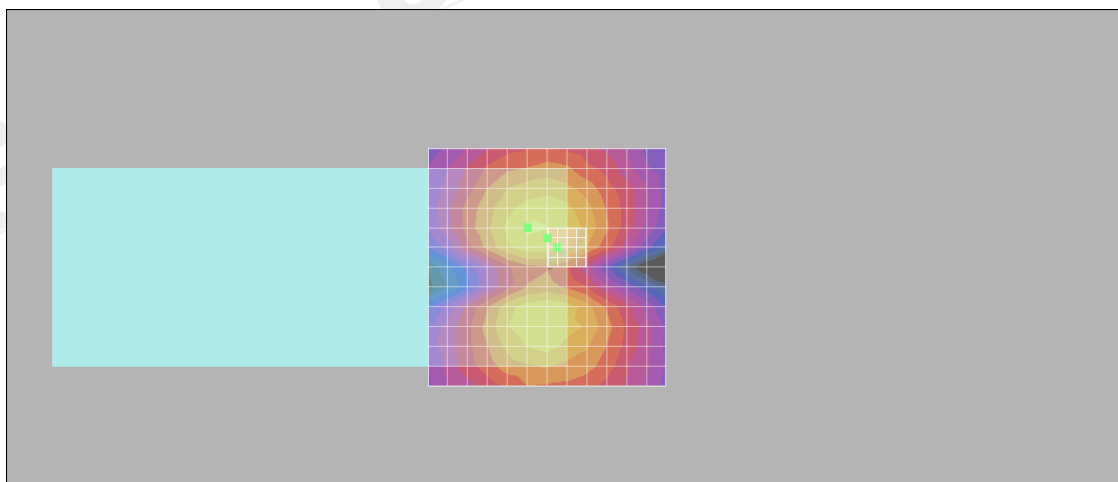
**Cursor:**

ABM1/ABM2 = 38.4 dB

ABM1 comp = -8.91 dB A/m

BWC Factor = 0.172003 dB

Location: -2.2, -4.2, 363.7 mm



0 dB = 1.00A/m

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## 13. Probe Calibration certificate

Calibration Laboratory of  
Schmid & Partner  
Engineering AG  
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst  
C Service suisse d'étalonnage  
S Servizio svizzero di taratura  
S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: SCS 108

Client **SGS (Auden)**

Certificate No: DAE4-547\_Jan08

**CALIBRATION CERTIFICATE**

Object **DAE4 - SD 000 D04 BA - SN: 547**

Calibration procedure(s) **QA CAL-08.v12  
Calibration procedure for the data acquisition electronics (DAE)**

Calibration date: **January 24, 2008**

Condition of the calibrated item **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature ( $22 \pm 3$ °C and humidity  $\leq 70\%$ ).

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards                | ID #               | Cal Date (Calibrated by, Certificate No.) | Scheduled Calibration |
|----------------------------------|--------------------|-------------------------------------------|-----------------------|
| Fuke Process Calibrator Type 702 | SN: 6295803        | 04-Oct-07 (Eikal AG, No: 6467)            | Oct-08                |
| Kelthley Multimeter Type 2001    | SN: 0810278        | 03-Oct-07 (Eikal AG, No: 6465)            | Oct-08                |
| Secondary Standards              | ID #               | Check Date (in house)                     | Scheduled Check       |
| Calibrator Box V1.1              | SE UMS 006 AB 1004 | 25-Jun-07 (SPEAG, in house check)         | In house check Jun-08 |

|                |                              |                                     |                                   |
|----------------|------------------------------|-------------------------------------|-----------------------------------|
| Calibrated by: | Name<br><b>Daniel Hess</b>   | Function<br><b>Technician</b>       | Signature<br><i>D. Hess</i>       |
| Approved by:   | Name<br><b>Fin Bornholdt</b> | Function<br><b>R&amp;D Director</b> | Signature<br><i>Fin Bornholdt</i> |

Issued: January 24, 2008

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: DAE4-547\_Jan08

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Multilateral Agreement for the recognition of calibration certificates  
Client **SGS (Auden)**

Accreditation No.: **SCS 108**

Certificate No: **AM1DV2-1030\_Apr08**

### CALIBRATION CERTIFICATE

Object **AM1DV2 - SN: 1030**

Calibration procedure(s) **QA CAL-24.v2  
Calibration procedure for AM1D magnetic field probes and TMFS in the  
audio range**

Calibration date **April 16, 2008**

Condition of the calibrated item **In Tolerance**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&E critical for calibration)

| Primary Standards            | ID #        | Cal Date (Certificate No.)      | Scheduled Calibration |
|------------------------------|-------------|---------------------------------|-----------------------|
| Kethley Multimeter Type 2001 | SN: 0810278 | 03-Oct-07 (No. 6465)            | Oct-08                |
| Reference Probe AM1DV2       | SN: 1008    | 23-Jan-08 (No. AM1D-1008_Jan08) | Jan-09                |
| DAE4                         | SN: 781     | 2-Oct-07 (No. DAE4-781_Oct07)   | Oct-08                |

| Secondary Standards | ID # | Check Date (in house)             | Scheduled Check |
|---------------------|------|-----------------------------------|-----------------|
| AMCG                | 1050 | 15-Aug-07 (in house check Aug-07) | Aug-08          |

|                | Name         | Function      | Signature |
|----------------|--------------|---------------|-----------|
| Calibrated by: | Mike Meili   | RF Technician |           |
| Approved by:   | Fin Bornholt | R&D Director  |           |

Issued: April 17, 2008

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: AM1D-1030\_Apr08

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#### References

- [1] ANSI C63.19-2007  
American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.
- [2] DASY4 manual, Chapter: Hearing Aid Compatibility (HAC) T-Coil Extension

#### Description of the AM1D probe

The AM1D Audio Magnetic Field Probe is a fully shielded magnetic field probe for the frequency range from 100 Hz to 20 kHz. The pickup coil is compliant with the dimensional requirements of [1]. The probe includes a symmetric low noise amplifier for the signal available at the shielded 3 pin connector at the side. Power is supplied via the same connector (phantom power supply) and monitored via the LED near the connector. The 7 pin connector at the end of the probe does not carry any signals, but determines the angle of the sensor when mounted on the DAE. The probe supports mechanical detection of the surface.

The single sensor in the probe is arranged in a tilt angle allowing measurement of 3 orthogonal field components when rotating the probe by 120° around its axis. It is aligned with the perpendicular component of the field, if the probe axis is tilted nominally 35.3° above the measurement plane, using the connector rotation and sensor angle stated below.

The probe is fully RF shielded when operated with the matching signal cable (shielded) and allows measurement of audio magnetic fields in the close vicinity of RF emitting wireless devices according to [1] without additional shielding.

#### Handling of the item

The probe is manufactured from stainless steel. In order to maintain the performance and calibration of the probe, it must not be opened. The probe is designed for operation in air and shall not be exposed to humidity or liquids. For proper operation of the surface detection and emergency stop functions in a DASY system, the probe must be operated with the special probe cup provided (larger diameter).

#### Methods Applied and Interpretation of Parameters

- **Coordinate System:** The AM1D probe is mounted in the DASY system for operation with a HAC Test Arch phantom with AMCC Helmholtz calibration coil according to [2], with the tip pointing to "southwest" orientation.
- **Functional Test:** The functional test preceding calibration includes test of Noise level  
RF immunity (1kHz AM modulated signal). The shield of the probe cable must be well connected.  
Frequency response verification from 100 Hz to 5 kHz.
- **Connector Rotation:** The connector at the end of the probe does not carry any signals and is used for fixation to the DAE only. The probe is operated in the center of the AMCC Helmholtz coil using a 1 kHz magnetic field signal. Its angle is determined from the two minima at nominally +120° and -120° rotation, so the sensor in the tip of the probe is aligned to the vertical plane in z-direction, corresponding to the field maximum in the AMCC Helmholtz calibration coil.
- **Sensor Angle:** The sensor tilting in the vertical plane from the ideal vertical direction is determined from the two minima at nominally +120° and -120°. DASY system uses this angle to align the sensor for radial measurements to the x and y axis in the horizontal plane.
- **Sensitivity:** With the probe sensor aligned to the z-field in the AMCC, the output of the probe is compared to the magnetic field in the AMCC at 1 kHz. The field in the AMCC Helmholtz coil is given by the geometry and the current through the coil, which is monitored on the precision shunt resistor of the coil.

## AM1D probe identification and configuration data

|           |                                      |
|-----------|--------------------------------------|
| Item      | AM1DV2 Audio Magnetic 1D Field Probe |
| Type No   | SP AM1 001 AE                        |
| Serial No | 1030                                 |

|                    |                                    |
|--------------------|------------------------------------|
| Overall length     | 296 mm                             |
| Tip diameter       | 6.0 mm (at the tip)                |
| Sensor offset      | 3.0 mm (centre of sensor from tip) |
| Internal Amplifier | 40 dB                              |

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Manufacturer / Origin | Schmid & Partner Engineering AG, Zürich, Switzerland |
| Manufacturing date    | 2006                                                 |
| Last calibration date | N/A (probe replacement)                              |

## Calibration data

|                          |                  |                  |                 |
|--------------------------|------------------|------------------|-----------------|
| Connector rotation angle | (in DASY system) | 251.6 °          | +/- 3.6 ° (k=2) |
| Sensor angle             | (in DASY system) | - 0.11 °         | +/- 0.5 ° (k=2) |
| Sensitivity at 1 kHz     | (in DASY system) | 0.0648 V / (A/m) | +/- 2.2 % (k=2) |

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## 14. Uncertainty Analysis

| Error Description                     | Uncertainty value [%] | Prob. Dist. | Div. | c      | c    | Std. Unc. | Std. Unc. |
|---------------------------------------|-----------------------|-------------|------|--------|------|-----------|-----------|
|                                       |                       |             |      | ABM1   | ABM2 | ABM1 [%]  | ABM2 [%]  |
| <b>PROBE SENSITIVITY</b>              |                       |             |      |        |      |           |           |
| Reference level                       | 3.0                   | N           | 1.0  | 1      | 1    | 3.0       | 3.0       |
| AMCC geometry                         | 0.4                   | R           | 1.7  | 1      | 1    | 0.2       | 0.2       |
| AMCC current                          | 0.6                   | R           | 1.7  | 1      | 1    | 0.4       | 0.4       |
| Probe positioning during calibration  | 0.1                   | R           | 1.7  | 1      | 1    | 0.1       | 0.1       |
| Noise contribution                    | 0.7                   | R           | 1.7  | 0.0143 | 1    | 0.0       | 0.4       |
| Frequency slope                       | 5.9                   | R           | 1.7  | 0.1    | 1.0  | 0.3       | 3.5       |
| <b>PROBE SYSTEM</b>                   |                       |             |      |        |      |           |           |
| Repeatability / Drift                 | 1.0                   | R           | 1.7  | 1      | 1    | 0.6       | 0.6       |
| Linearity / Dynamic range             | 0.6                   | R           | 1.7  | 1      | 1    | 0.4       | 0.4       |
| Acoustic noise                        | 1.0                   | R           | 1.7  | 0.1    | 1    | 0.1       | 0.6       |
| Probe angle                           | 2.3                   | R           | 1.7  | 1      | 1    | 1.4       | 1.4       |
| Spectral processing                   | 0.9                   | R           | 1.7  | 1      | 1    | 0.5       | 0.5       |
| Integration time                      | 0.6                   | N           | 1.0  | 1      | 5    | 0.6       | 3.0       |
| Field disturbance                     | 0.2                   | R           | 1.7  | 1      | 1    | 0.1       | 0.1       |
| <b>TEST SIGNAL</b>                    |                       |             |      |        |      |           |           |
| Reference signal spectral response    | 0.6                   | R           | 1.7  | 0      | 1    | 0.0       | 0.4       |
| <b>POSITIONING</b>                    |                       |             |      |        |      |           |           |
| Probe positioning                     | 1.9                   | R           | 1.7  | 1      | 1    | 1.1       | 1.1       |
| Phantom thickness                     | 0.9                   | R           | 1.7  | 1      | 1    | 0.5       | 0.5       |
| DUT positioning                       | 1.9                   | R           | 1.7  | 1      | 1    | 1.1       | 1.1       |
| <b>EXTERNAL CONTRIBUTIONS</b>         |                       |             |      |        |      |           |           |
| RF interference                       | 0.0                   | R           | 1.7  | 1      | 1    | 0.0       | 0.0       |
| Test signal variation                 | 2.0                   | R           | 1.7  | 1      | 1    | 1.2       | 1.2       |
| <b>COMBINED UNCERTAINTY</b>           |                       |             |      |        |      |           |           |
| Combined Std. uncertainty (ABM field) |                       |             |      |        |      | 4.1       | 6.1       |
| Expanded Std. uncertainty [%]         |                       |             |      |        |      | 8.1       | 12.3      |

Table 18.1 Uncertainty of audio band magnetic measurements

## End of report

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