
Test Report FOR HAC T-coil

Report No.: SRTC2021-9004(F)-21082801(O)

Product Name: Smart Phone

Product Model:TA-1390

Applicant:HMD Global Oy

Manufacturer:HMD Global Oy

Specification: FCC Part 20.19

ANSI C63.19

FCC ID: 2AJOTTA-1390

The State Radio_monitoring_center Testing Center (SRTC)
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Contents

1 GENERAL INFORMATION	2
1.1 Notes of the test report	2
1.2 Information about the testing laboratory	2
1.3 Applicant’s details	2
1.4 Manufacturer’s details	2
1.5 Test Environment	3
2 DESCRIPTION OF THE DEVICE UNDER TEST	4
2.1 Final Equipment Build Status	4
2.2 Support Equipment	5
3 REFERENCE SPECIFICATIONS	5
4 RESULT SUMMAR	6
5 Test Procedures for all Technologies	7
6 Audio Level and Gain Measurements	13
7 Description of the test Position	16
7.1 Test positions	16
7.2 T-coil Requirements and Category Limits	17
8 Measurement uncertainty	19
9 Air Interfaces and Operating Mode	20
10 T-Coil Testing for Standard Phone Application	21
10.1 GSM Test Result	22
10.2 WCDMA Test Result	23
10.3 VOLTE Test Result	24
10.4 VOWIFI Test Result	27
11 T-Coil testing for OTT VoIP Application	29
11.1 GSM Test Result	30
11.2 WCDMA Test Result	30
11.3 LTE Test Result	30
11.4 WIFI Test Result	31
12 Test Equipments	32
12.1 Audio Magnetic Probe AM1DV2	33
12.2 Audio Magnetic Measurement Instrument AMMI	33
12.3 Audio Magnetic calibration Coil AMCC	33
ANNEX A: TEST PLOTS	34
A.1 Test Plot for Standard Phone Application	34

1 GENERAL INFORMATION

1.1 Notes of the test report

The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written permission of The State Radio_monitoring_center Testing Center (SRTC).

The test results relate only to individual items of the samples which have been tested.

The certification and accreditation identifiers used in this report shall not be applicable to the tested or calibrated samples thereof. The manufacturer shall not mark the tested samples or items (or a separate part of the item) with the identifiers of certification and accreditation to mislead relevant parties about the tested samples or items.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, Beijing P.R.China
City:	Beijing
Country or Region:	P.R.China
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1.3 Applicant's details

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Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
City:	Finland
Country or Region:	Espoo
Contacted person:	Reza Serafat
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Email:	reza.serafat@hmdglobal.com

1.4 Manufacturer's details

Company:	HMD Global Oy
Address:	Bertel Jungin aukio 9, 02600 Espoo, Finland
City:	Finland
Country or Region:	Espoo
Contacted person:	Reza Serafat
Tel:	+491735287964
Email:	reza.serafat@hmdglobal.com

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2021-08-22
Testing Start Date:	2021-08-22
Testing End Date:	2021-09-01

Environmental Data:	Temperature(°C)	Humidity (%)
Ambient	22~23	32~37

Normal Supply Voltage (V d.c.):	3.85
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2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Wireless Technology and Frequency Bands	<input checked="" type="checkbox"/> GSM Band: GSM850/PCS1900 <input checked="" type="checkbox"/> WCDMA Band: FDD2/4/5 <input checked="" type="checkbox"/> LTE Band: 2/4/5/7/12/13/17/25/26/38/41/66 <input checked="" type="checkbox"/> Bluetooth Band:2.4GHz <input checked="" type="checkbox"/> Wi-Fi Band:2.4/5GHz
Mode	GSM <input checked="" type="checkbox"/> Voice (GMSK) <input checked="" type="checkbox"/> GPRS (GMSK) <input checked="" type="checkbox"/> EGPRS (GMSK/8PSK) WCDMA <input checked="" type="checkbox"/> UMTS Rel. 99 (Voice & Data) <input checked="" type="checkbox"/> HSDPA (Rel. 5) <input checked="" type="checkbox"/> HSUPA (Rel. 6) <input checked="" type="checkbox"/> HSPA+ (Rel.7) <input checked="" type="checkbox"/> DC-HSDPA (Rel.8) Wi-Fi 2.4G (802.11b/g/n/ax) <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n (20MHz) <input type="checkbox"/> 802.11ax(20MHz) Wi-Fi5GHz <input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n (20MHz/40MHz) <input checked="" type="checkbox"/> 802.11ac (20MHz/40MHz/80MHz) <input type="checkbox"/> 802.11ax (20MHz/40MHz/80MHz) Bluetooth <input checked="" type="checkbox"/> BR(GFSK) <input checked="" type="checkbox"/> EDR($\pi/4$ DQPSK , 8-DPSK) <input checked="" type="checkbox"/> BLE(GFSK) LTE <input checked="" type="checkbox"/> QPSK <input checked="" type="checkbox"/> 16QAM <input checked="" type="checkbox"/> 64QAM <input checked="" type="checkbox"/> 256QAM
Note	NA

2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:



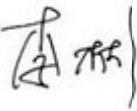
Equipment	Battery
Manufacturer	Guangdong Fenghua New Energy Co., Ltd.
Model Number	P660

3 REFERENCE SPECIFICATIONS

Specification	Version	Title
Part 20.19	2020	Hearing aid-compatible mobile handsets.
C63.19	2011	American National Standard Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids
285076 D01	v05r01	Equipment Authorization Guidance for Hearing Aid Compatibility
285076 D02	v03	Guidance For Performing T-Coil Test for Aid Interfaces Supporting Voice Over IP to Support CMRS Based Telephone Services

4 RESULT SUMMAR

Band	Category assessment T-coil signal quality	Pass/Fail
GSM850	T3	PASS
GSM1900	T4	PASS
WCDMA BAND2	T4	PASS
WCDMA BAND4	T4	PASS
WCDMA BAND5	T4	PASS
LTE BAND2	T3	PASS
LTE BAND4	T3	PASS
LTE BAND5	T3	PASS
LTE BAND7	T3	PASS
LTE BAND12	T3	PASS
LTE BAND13	T3	PASS
LTE BAND17	T3	PASS
LTE BAND25	T3	PASS
LTE BAND26	T3	PASS
LTE BAND38	T3	PASS
LTE BAND41	T3	PASS
LTE BAND66	T3	PASS
WIFI 2.4GHz	T3	PASS
WIFI 5GHz	T3	PASS
Final T Category	T3	PASS

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Ms. Liu Jia 
Tested by: Mr. Li Bin 	Issued date: 20210907

5 Test Procedures for all Technologies

Referenced to ANSI C63.19, Section 7.4,

This section describes the procedures used to measure the ABM (T-Coil) performance of the WD. In addition to measuring the absolute signal levels, the A-weighted magnitude of the unintended signal shall also be determined. In order to assure that the required signal quality is measured, the measurement of the intended signal and the measurement of the unintended signal must be made at the same location for all measurement positions. In addition, the RF field strength at each measurement location must be at or below that required for the assigned category.

Measurements shall not include undesired properties from the WD's RF field; therefore, use of a coaxial connection to a base station simulator or non-radiating load may be necessary. However, even then with a coaxial connection to a base station simulator or non-radiating load there may still be RF leakage from the WD, which may interfere with the desired measurement. Pre-measurement checks should be made to avoid this possibility. All measurements shall be done with the WD operating on battery power with an appropriate normal speech audio signal input level given in Table 7.1. If the device display can be turned off during a phone call then that may be done during the measurement as well.

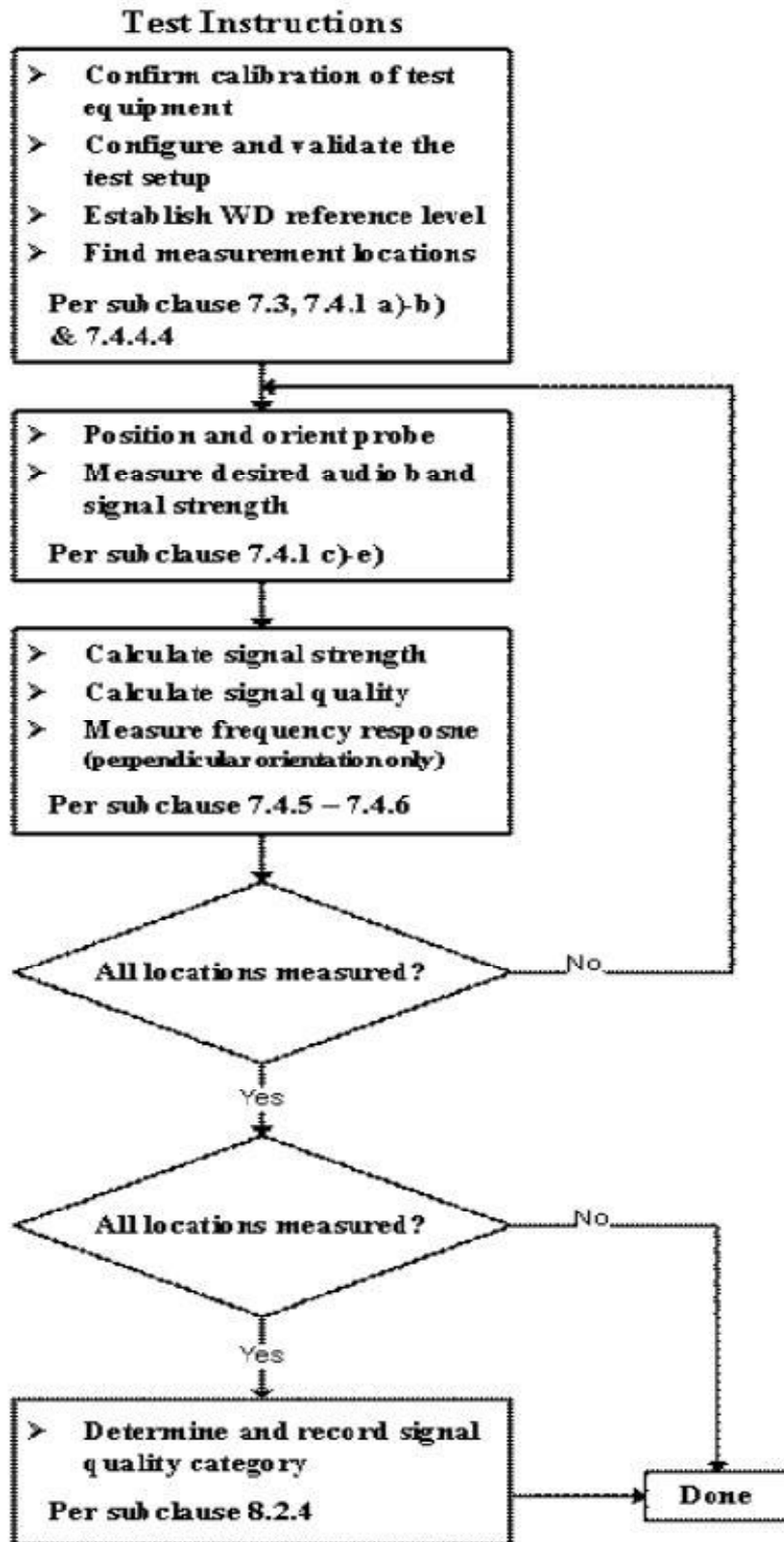
Measurements shall be performed at two locations specified in A.3, with the correct probe orientation for a particular location, in a multistage sequence by first measuring the field intensity of the desired T-Coil signal (ABM1) that is useful to a hearing aid T-Coil. The undesired magnetic components (ABM2) must be measured at the same location as the desired ABM or T-Coil signal (ABM1), and the ratio of desired to undesired ABM signals must be calculated. For the perpendicular field location, only the ABM1 frequency response shall be determined in a third measurement stage. The flow chart in Figure 7.3 illustrates this three-stage, two orientation process.

The following steps summarize the basic test flow for determining ABM1 and ABM2. These steps assume that a sine wave or narrowband 1/3 octave signal can be used for the measurement of ABM1.

- a. A validation of the test setup and instrumentation may be performed using a TMFS or Helmholtz coil. Measure the emissions and confirm that they are within the specified tolerance.
- b. Position the WD in the test setup and connect the WD RF connector to a base station simulator or a non-radiating load as shown in Figure 7.1 or Figure 7.2. Confirm that equipment that requires calibration has been calibrated, and that the noise level meets the requirements given in 7.3.1.
- c. The drive level to the WD is set such that the reference input level specified in Table 7.1 is input to the base station simulator (or manufacturer's test mode equivalent) in the 1 kHz, 1/3 octave band. This drive level shall be used for the T-Coil signal test (ABM1) at $f = 1$ kHz. Either a sine wave at 1025 Hz or a voice-like signal, band-limited to the 1 kHz 1/3 octave, as defined in 7.4.2, shall be used for the reference audio signal. If interference is found at 1025 Hz an alternative nearby reference audio signal frequency may be used.⁴⁶ The same drive level will be used for the ABM1 frequency response

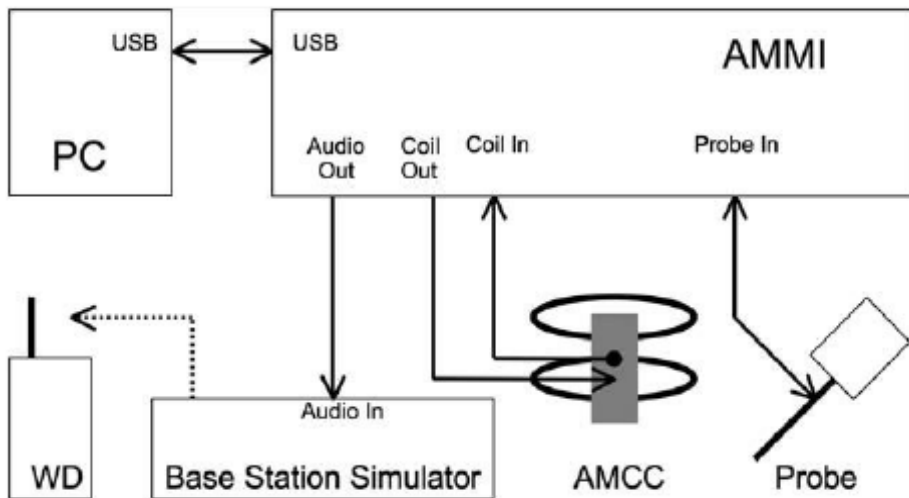
measurements at each 1/3 octave band center frequency. The WD volume control may be set at any level up to maximum, provided that a signal at any frequency at maximum modulation would not result in clipping or signal overload.

- d. Determine the magnetic measurement locations for the WD device (A.3), if not already specified by the manufacturer, as described in 7.4.4.1.1 and 7.4.4.2.
- e. At each measurement location, measure and record the desired T-Coil magnetic signals (ABM1 at f_i) as described in 7.4.4.2 in each individual ISO 266-1975 R10 standard 1/3 octave band. The desired audio band input frequency (f_i) shall be centered in each 1/3 octave band maintaining the same drive level as determined in item c) and the reading taken for that band.
- f. Equivalent methods of determining the frequency response may also be employed, such as fast Fourier transform (FFT) analysis using noise excitation or input-output comparison using simulated speech. The full-band integrated probe output, as specified in D.9, may be used, as long as the appropriate calibration curve is applied to the measured result, so as to yield an accurate measurement of the field magnitude. (The resulting measurement shall be an accurate measurement in dB A/m.)
- g. All Measurements of the desired signal shall be shown to be of the desired signal and not of an undesired signal. This may be shown by turning the desired signal ON and OFF with the probe measuring the same location. If the scanning method is used the scans shall show that all measurement points selected for the ABM1 measurement meet the ambient and test system noise criteria in ANSI C63.19 clause 7.3.1.
- h. At the measurement location for each orientation, measure and record the undesired broadband audio magnetic signal (ABM2) as specified in 7.4.4.4 with no audio signal applied (or digital zero applied, if appropriate) using A-weighting and the half-band integrator. Calculate the ratio of the desired to undesired signal strength (i.e., signal quality).
- i. Obtain the data from the postprocessor, SEMCAD, and determine the category that properly classifies the signal quality based on Table 8.5.



WD T-Coil signal test flowchart

Test Setup Diagram



Test setup for GSM/WCDMA/VoLTE/VoWiFi CMRS service

For GSM / UMTS test setup and input level, the correct input level definition is via a communication tester CMU200's "Decoder Cal" and "Codec Cal" with audio option to set the correct audio input levels.

For VoLTE and VoWiFi the test setup used is via the callbox of CMW500 for T-coil measurement, The DAU of the CMW500 was used to simulate the IMS (CDMA2000 do not need IMS registration). The CMW500 can be manually configured to ensure and control the speech input level result is -16dBm0 for VoLTE, -20dBm0 for VoWiFi when the device during the IMS connection.

For GSM / UMTS test setup and input level, the correct input level definition is via a communication tester **CMU200**'s "Decoder Cal" and "Codec Cal" with audio option B52 and B85

The following options units on **CMW500** were used to simulate the VoLTE /VOWIFI /VOIP (IMS, EPDG, DNS inside DAU with Audio Board) for testing.

Firmware License Keys	Software Name
CMW-PS505	Basic Assembly
CMW-S052S	SSD Driver
CMW-S100D	Baseband Measurement Unit
CMW-S550N	Flexible Internal Connection
CMW-S570B	RF Converter
CMW-S590D	Advanced Frontend
CMW-S600B	Front Panel with Display
CMW-PS505	Basic Assembly
CMW-S052S	SSD Driver

Hardware Options and Accessory:

CMW-B400B	Audio Board
CMW-B405A	CODEC Board
CMW-B500I	Signaling Unit for LTE and WLAN
CMW-B612A	GPIB Connector
CMW-B660H	Option Carrier
CMW-B661H	Ethernet Switch Board
CMW-B690B	OXCO
CMW-KB036	6 GHz Extension
CMW-Z06	Test USIM Card
CMW-B450H	Data Application Unit (DAU) for IMS Server and IP Emulation

Software Options:

CMW-K0

CMW-KS104

CMW-PK45

CMW-PK45

CMW-PK45

CMW-PK50

CMW-PK65

Software License for EVS

Software License Package for IP Network Emulation

Software License Package for LTE

Software License Package for WLAN

6 Audio Level and Gain Measurements

According to C63 .19and KDB 285076 , the input audio level showing below:

- GSM input level: -16dBm0
- UMTS input level: -16dBm0
- VoLTE input level: -16dBm0
- VoWiFi input level: -20dBm0

CMRS voice gain setting(GSM/WCDMA/VOLTE/WOWIFI)

The table of**Required gain**showing below is given by SPEAG, And we used these parameters to determine the **Gain setting** on the software DASY52 perform HAC T-coil test.

Signal [file name]	Duration [s]	Peak-to-RMS [dB]	RMS [dB]	Required gain factor *)	Gain setting
1kHz sine	---	3.0	0.0	1.00	
48k_1.025kHz_10s.wav	10	3.0	0.0	1.00	
48k_1kHz_3.15kHz_10s.wav	10	6.0	-3.0	1.42	
48k_315Hz_1kHz_10s.wav	10	6.0	-2.9	1.40	
48k_csek_8k_441_white_10s.wav	10	13.8	-10.5	3.34	
48k_multisine_50-5000_10s.wav	10	11.1	-7.9	2.49	
48k_multisine_50-10000_10s.wav	10	10.8	-7.7	2.42	
48k_voice_1kHz_1s.wav	1	16.2	-12.7	4.33	
48k_voice_300-3000_2s.wav	2	21.6	-18.6	8.48	
48k_normal (example)	51	25.4	-22.42	13.21	

(*) The gain for the specific signal shall typically be multiplied by this factor to achieve approx. the same level as for the 1kHz sine signal.

Note: For protocols not listed in Table 7.1 of ANSI C63.19 or the ANSI C63.19 VoLTE interpretation, the average speech level of -20 dBm0 should be used

For GSM/UMTS test, we use uncalibrated simulator CMU200 the reference level in dBm0 depend on the instrument, the signaling unit used and on the AMMI.

The gain level determination to obtain a specific level in dBm0 with R&S CMU200 describe as following procedure.

Step1:Decoder Calibration on the CMU200.

The value of AMCC coil in_RMS (dBv) is -2.42dBV is equal to the reference input level of 3.14dBm0

Step2: Codec Calibration on the CMU200.

Measure the AMMI 1KHz sine with gain 10(20dB) looped through the CMU200 using AMMI 'Coil_In' and "Coil_In' signal reading is -19.71dBV corresponds to a level -14.15 dBm0

Step3:Calculate the required gain for a '1 kHz Sine'.

The desire input level is -16dBm0 for GSM and WCDMA, so the **required gain** is (-16dBm0) – (-14.15dBm0) + 20 dB=18.15 dB(gain dB)=8.08(gain linear)

Step4: Gain setting for several audio files (required gain* gain factor).

Mode	Signal Type	Duration (s)	Peak to RMS (dB)	Peak to RMS (dB)	Required Gain Factor	Calculated Gain Setting
GSM/ WCDMA (-16dBm0)	48k_voice_1kHz	1	16.2	-12.7	4.33	34.99
	48k_voice_300Hz ~ 3kHz	2	21.6	-18.6	8.48	68.52

For VoLTE/VoWIFI test, we use simulators with calibrated inputs CMW500 where the input sensitivity dBm0 per input voltage is known or can be set, the relation between the analog input voltage and the internal level in dBm0 can be determined.

The gain level determination to obtain a specific level in dBm0 with CMW500 describe as following procedure.

Step1: Define CMW500 analog input voltage on the CMW500.

The value of Speech_In Sensitivity is 1.8V_fullscale is equal to the reference input level of 3.14dBm0, Full scale input level converted to dBV_RMS is 2.10

Step2: Connect AMMI “Audio Out” to “AMMI Coil In” via BNC-XLR adapter.

Measure the AMMI 1KHz sine with gain 100(40dB) "Coil_In' signal reading is 3.37 dBV ,Impedence corrected "Coil_In' signal reading is 3.37 dBV -0.15dB= 3.22dBV corresponds to a level 4.26 dBm0

Step3: Calculate the required gain for a '1 kHz Sine'.

When the desire input level is -16dBm0 for LTE, the **required gain** is (-16dBm0) – (4.26dBm0) + 40 dB=19.74 dB(gain dB)= 9.70(gain linear)

When the desire input level is -20dBm0 for WIFI, the **required gain** is (-20dBm0) – (4.26dBm0) + 40 dB=15.74 dB(gain dB)= 6.12(gain linear)

Step4: Gain setting for several audio files (required gain* gain factor).

Mode	Signal Type	Duration (s)	Peak to RMS (dB)	Peak to RMS (dB)	Required Gain Factor	Calculated Gain Setting
LTE (-16dBm0)	48k_voice_1kHz	1	16.2	-12.7	4.33	42.00
	48k_voice_300 Hz ~ 3kHz	2	21.6	-18.6	8.48	82.26
WIFI (-20dBm0)	48k_voice_1kHz	1	16.2	-12.7	4.33	26.50
	48k_voice_300 Hz ~ 3kHz	2	21.6	-18.6	8.48	51.90

7 Description of the test Position

7.1 Test positions

The device was positioned such that Device Reference plane was touching the bottom of the Test Arch. The scan is centered at the acoustic output by aligning the acoustic output with the intersection of the Test Arch's middle bar and dielectric wire. The WD is positioned always this way to ensure repeatability of the measurements. Coordinate system depicted below is used to define exact locations of measurement points relative to the center of the acoustic output.

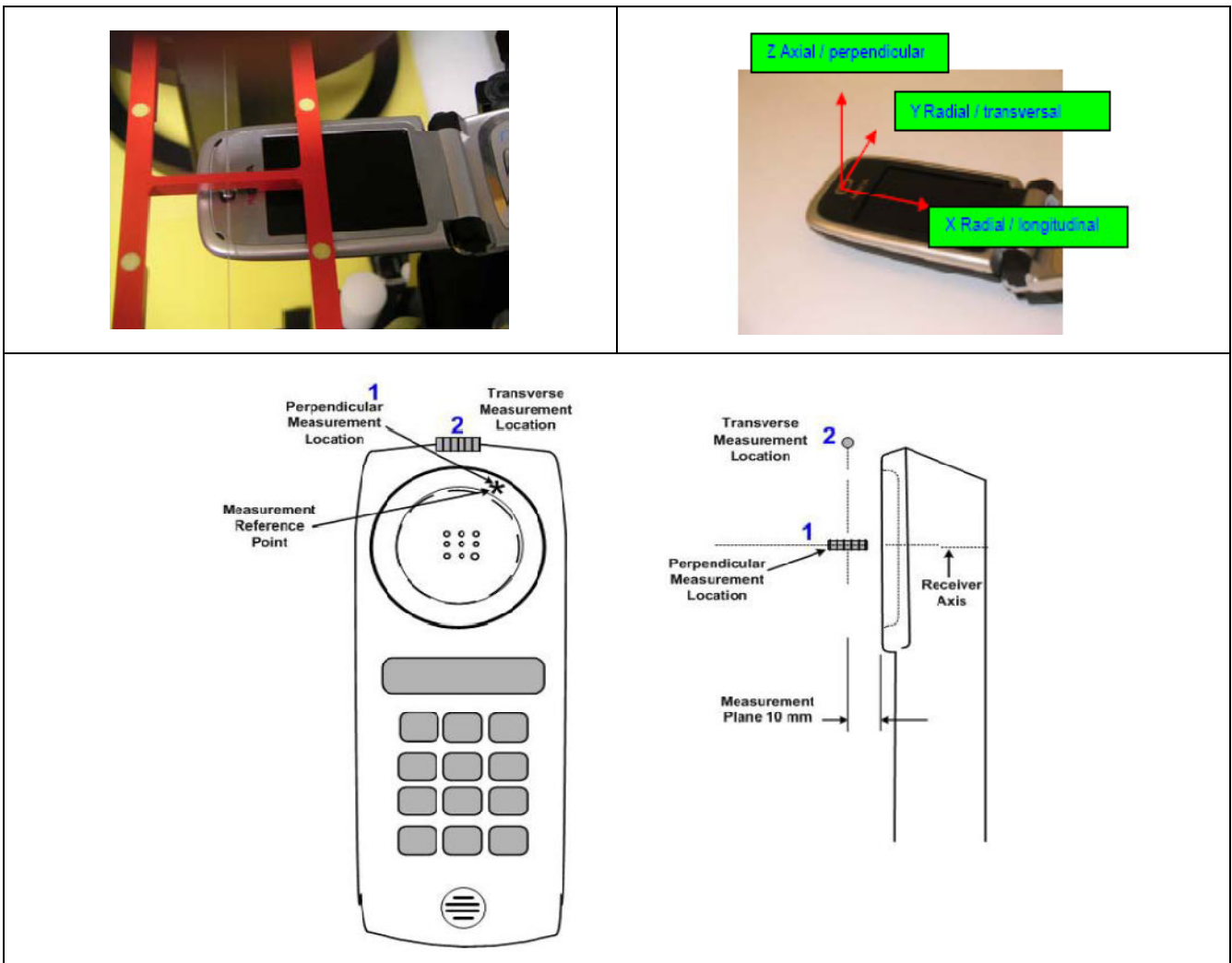


Photo of the device positioned under Test Arch and coordinate system (The EUT in picture is generic phone sample and does not represent the actual equipment under test)

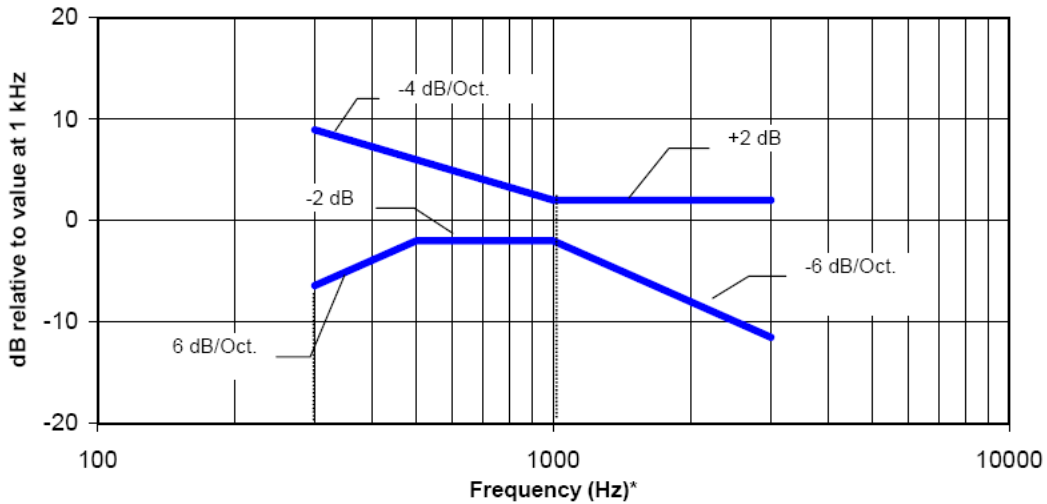
7.2 T-coil Requirements and Category Limits

Signal to Noise :This section provides the signal quality requirement for the intended T-Coil signal from a WD. Only the RF immunity of the hearing aid is measured in T-Coil mode. It is assumed that a hearing aid can have no immunity to an interference signal in the audio band, which is the intended reception band for this mode. So, the only criterion that can be measured is the RF immunity in T-Coil Mode.The RF measurements made for the T-Coil evaluation are used to assign the category T1 through T4.

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

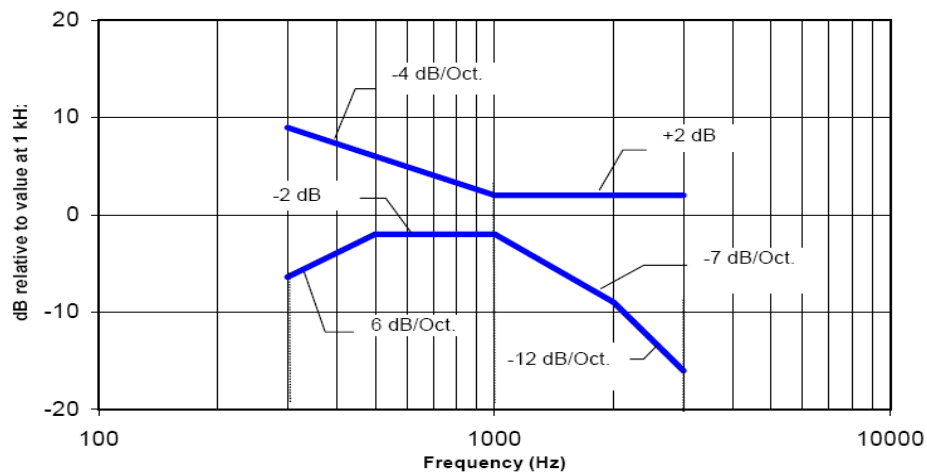
Frequency Response

The frequency response of the perpendicular component of the magnetic field, measured in 1/3 octave bands, shall follow the response curve specified in this sub-clause, over the frequency range 300 Hz to 3000 Hz.



NOTE—Frequency response is between 300 Hz and 3000 Hz.

Magnetic field frequency response for WDs with a field ≤ -15 dB (A/m) at 1 kHz



NOTE—Frequency response is between 300 Hz and 3000 Hz.

Magnetic field frequency response for WDs with a field that exceeds -15 dB(A/m) at 1 kHz

8 Measurement uncertainty

Uncertainty of Audio Band Magnetic Measurements							
Error Description	Unc. Value	Prob. Dist.	Div.	(c_1) ABM1	(c_2) ABM2	Std. Unc. ABM1	Std. Unc. ABM2
Probe Sensitivity							
Reference Level	±3.0 %	N	1	1	1	±3.0 %	±3.0 %
AMCC Geometry	±0.4 %	R	$\sqrt{3}$	1	1	±0.2 %	±0.2 %
AMCC Current	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %
Probe Positioning during Calibr.	±0.1 %	R	$\sqrt{3}$	1	1	±0.1 %	±0.1 %
Noise Contribution	±0.7 %	R	$\sqrt{3}$	0.0143	1	±0.0 %	±0.4 %
Frequency Slope	±5.9 %	R	$\sqrt{3}$	0.1	1.0	±0.3 %	±3.5 %
Probe System							
Repeatability / Drift	±1.0 %	R	$\sqrt{3}$	1	1	±0.6 %	±0.6 %
Linearity / Dynamic Range	±0.6 %	R	$\sqrt{3}$	1	1	±0.4 %	±0.4 %
Acoustic Noise	±1.0 %	R	$\sqrt{3}$	0.1	1	±0.1 %	±0.6 %
Probe Angle	±2.3 %	R	$\sqrt{3}$	1	1	±1.4 %	±1.4 %
Spectral Processing	±0.9 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %
Integration Time	±0.6 %	N	1	1	5	±0.6 %	±3.0 %
Field Disturbance	±0.2 %	R	$\sqrt{3}$	1	1	±0.1 %	±0.1 %
Test Signal							
Ref. Signal Spectral Response	±0.6 %	R	$\sqrt{3}$	0	1	±0.0 %	±0.4 %
Positioning							
Probe Positioning	±1.9 %	R	$\sqrt{3}$	1	1	±1.1 %	±1.1 %
Phantom Thickness	±0.9 %	R	$\sqrt{3}$	1	1	±0.5 %	±0.5 %
DUT Positioning	±1.9 %	R	$\sqrt{3}$	1	1	±1.1 %	±1.1 %
External Contributions							
RF Interference	±0.0 %	R	$\sqrt{3}$	1	0.3	±0.0 %	±0.0 %
Test Signal Variation	±2.0 %	R	$\sqrt{3}$	1	1	±1.2 %	±1.2 %
Combined Uncertainty							
Combined Std. Uncertainty (ABM Field)						±4.1 %	±6.1 %
Expanded Std. Uncertainty						±8.1 %	±12.3 %

9 Air Interfaces and Operating Mode

Air interface	Bands (MHz)	Type	ANSI C63.19 Tested	Simultaneous Transmitter	Voice Service	Power Reduction
GSM	850	VO	YES	WLAN, BT	CMRS Voice	NA
	1900					NA
GPRS/EDGE	850	VD	YES		NA	NA
	1900					NA
WCDMA (UMTS)	Band 2/4/5	VO	YES	WLAN, BT	CMRS Voice	NA
HSPA+	Band 2/4/5	VD	YES		NA	NA
LTE (FDD)	Band2/4/5/7/12/13/17/25/26/66	VO	YES	WLAN, BT	VoLTE	NA
	Band2/4/5/7/12/13/17/25/26/66	VD	YES	WLAN, BT	NA	NA
LTE (TDD)	Band38/41	VO	YES	WLAN, BT	VoLTE	NA
	Band38/41	VD	YES	WLAN, BT	NA	NA
WLAN	2.4/5GHz	VO	YES	WWAN	VoWiFi	NA
	2.4/5GHz	VD	YES	WWAN	NA	NA
BT	2.4G	DT	NA	WWAN, WLAN	NA	NA

Abbreviation Type

VO=CMRS Voice Service

DT = Digital Transport

VD=IP Voice Service over Digital Transport

BT=Bluetooth (include BLE)

Note:

1). For Simultaneous transmission, WLAN and BT share the same antenna, so they can't work together at the same time.

10 T-Coil Testing for Standard Phone Application

General illustration:

- 1.The middle channel of each frequency band is used for T-Coil testing according ANSI C63.19.
2. For VoLTE or VoWiFi, Codec investigation is choose either one radio configuration and an investigation was performed, the following tests use worst codec for the handset.
3. For VoLTE or VoWiFi, Radio configuration investigation is choose worst codec from codec investigationto determine the worstradio configuration on all frequency band, data rates and modulations and RB configuration,
- 4.All the data showing on the section “Tests Results” usedthe worst features (codec andradio configuration) determined by codec investigation (illustration2) and Radio configuration investigation (illustration3).
5. According to 3GPP 36.211 Table 4.2-2, TDD-LTE supports uplink-downlinkconfiguration from 0 to 6, an additional parameter investigation was performed to determine the worst-case uplink-downlinkand with the FDD-LTE worst case radio configuration.
6. Phone Condition: Mute on; Backlight off; Max Volume

10.1 GSM Test Result

Codec Investigation

codec	Full rate version1	Half rate version1	Worst Orientation	Band/channel
ABM1 [dB A/m]	1.71	-0.53	Axial(Z)	GSM850 /CH190
ABM2 [dB A/m]	-27.46	-30.70		
SNR [dB]	29.17	30.17		

Tests Results

We use codec **Full rate version1** perform all the test below.

Air interface	Channel	Orientation	ABM1 dB(A/m)	ABM2 dB(A/m)	Signal Quality dB	T-Rating ANSI C63.19	Freq. Response
GSM850	190	Radial (Y)	-5.31	-39.91	34.60	T4	---
		Axial (Z)	1.71	-27.46	29.17	T3	Pass
GSM1900	661	Radial (Y)	-4.29	-40.03	35.74	T4	---
		Axial (Z)	3.98	-28.68	32.66	T4	Pass

10.2 WCDMA Test Result

Codec Investigation

codec	AMR-NB 4.75Kbps	AMR-NB7.95Kbps	AMR-NB 12.2Kbps	Worst Orientation	Band/channel
ABM1 [dB A/m]	1.59	3.46	3.16	Axial(Z)	WCDMA Band5/CH4182
ABM2 [dB A/m]	-32.92	-30.68	-32.49		
SNR [dB]	34.51	34.14	35.65		

Tests Results

We use codec **AMR-NB 7.95Kbps** perform all the test below.

Air interface	Channel	Orientation	ABM1 dB(A/m)	ABM2 dB(A/m)	Signal Quality dB	T-Rating ANSI C63.19	Freq. Response
WCDMA BAND2	9400	Radial (Y)	-4.99	-42.33	37.34	T4	---
		Axial (Z)	3.70	-32.94	36.64	T4	Pass
WCDMA BAND4	1413	Radial (Y)	-5.80	-41.45	35.65	T4	---
		Axial (Z)	3.35	-29.94	33.29	T4	Pass
WCDMA BAND5	4182	Radial (Y)	-4.62	-39.71	35.09	T4	---
		Axial (Z)	3.46	-30.68	34.14	T4	Pass

10.3VOLTE Test Result

Codec Investigation

AMR Codec Investigation

codec	AMR -WB 6.6Kbps	AMR -WB 23.85Kbps	AMR -NB 4.75Kbps	AMR -NB 12.2Kbps	EVS -SWB 9.6Kbps	EVS -SWB 24.4Kbps	EVS -WB 5.9Kbps	EVS -WB 24.4Kbps	EVS -NB 5.9Kbps	EVS -NB 24.4Kbps	Worst Orientation	Band/ BW/ channel/ Modulation
ABM1 [dB A/m]	2.24	2.75	-3.24	-3.24	6.28	6.43	6.88	7.70	5.51	6.96	Axial(Z)	LTE BAND2 / 20MHz/CH18900/QPSK
ABM2 [dB A/m]	-30.93	-30.4	-31.12	-30.91	-30.06	-29.91	-29.83	-30.93	-30.31	-31.04		
SNR [dB]	33.17	33.15	27.88	27.67	36.34	36.34	36.71	38.63	35.82	38.00		

codec	AMR -WB 6.6Kbps	AMR -WB 23.85Kbps	AMR -NB 4.75Kbps	AMR -NB 12.2Kbps	EVS -SWB 9.6Kbps	EVS -SWB 24.4Kbps	EVS -WB 5.9Kbps	EVS -WB 24.4Kbps	EVS -NB 5.9Kbps	EVS -NB 24.4Kbps	Worst Orientation	Band/ BW/ channel/ Modulation
ABM1 [dB A/m]	2.06	2.71	-4.87	-3.45	5.79	5.89	5.53	7.16	5.22	5.43	Axial(Z)	LTE BAND41 / 20MHz/CH40620/QPSK
ABM2 [dB A/m]	-30.89	-30.92	-31.19	-31.07	-30.98	-30.54	-29.95	-30.66	-30.33	-30.47		
SNR [dB]	32.95	33.63	26.32	27.62	36.77	36.43	35.48	37.82	35.55	35.90		

Radio Configuration Investigation

For the radio configuration investigation (FDD-LTE, TDD-LTE), we use codec **AMR -NB12.2Kbps**for FDD-LTEand **AMR -NB4.75Kbps**for TDD-LTE,determined by Codec Investigation which represents the worst codec future.

Air interface	BW	Modulation	RB Size/offset	Channel	Power Class	UL-DL Configuration	ABM1 withWorst Orientation [dB A/m]	ABM2 withWorst Orientation [dB A/m]	Signal Quality dB
FDD-LTE BAND2	1.4	QPSK	1/0	18900	3	---	-3.76	-32.48	28.72
	3	QPSK	1/0	18900	3	---	-3.18	-32.13	28.95
	5	QPSK	1/0	18900	3	---	-3.50	-31.57	28.07
	10	QPSK	1/0	18900	3	---	-3.26	-32.28	29.02
	15	QPSK	1/0	18900	3	---	-3.21	-32.26	29.05
	20	QPSK	1/0	18900	3	---	-3.24	-31.00	27.67
	20	16QAM	1/0	18900	3	---	-3.62	-32.35	28.73
	20	64QAM	1/0	18900	3	---	-3.43	-31.67	28.24
	20	256QAM	1/0	18900	3	---	-3.84	-32.29	28.45
	20	QPSK	50/0	18900	3	---	-3.58	-31.56	27.98
	20	QPSK	100/0	18900	3	---	-3.79	-32.58	28.79
TDD-LTE BAND41	5	QPSK	1/13	40620	3	0	-4.85	-29.80	24.95
	10	QPSK	1/25	40620	3	0	-4.49	-28.44	23.95
	15	QPSK	1/37	40620	3	0	-4.96	-28.94	23.98
	20	QPSK	1/50	40620	3	0	-5.47	-30.54	25.07
	20	16QAM	1/50	40620	3	0	-5.47	-30.94	25.47
	20	64QAM	1/50	40620	3	0	-5.16	-30.45	25.29
	20	256QAM	1/50	40620	3	0	-5.11	-30.32	25.21
	20	QPSK	50/0	40620	3	0	-4.74	-30.05	25.31
	20	QPSK	100/0	40620	3	0	-4.65	-31.65	27.00
	10	QPSK	1/25	40620	3	1	-5.46	-30.10	24.64
	10	QPSK	1/25	40620	3	2	-4.77	-29.77	25.00
	10	QPSK	1/25	40620	3	3	-4.69	-30.30	25.61
	10	QPSK	1/25	40620	3	4	-6.82	-32.01	25.19
	10	QPSK	1/25	40620	3	5	-6.09	-30.92	24.83
10	QPSK	1/25	40620	3	6	-4.77	-30.65	25.88	

Step1: SRTC evaluate the worst bandwidth.

Step2: then evaluate the worst modulation.

Step3: and finally evaluate the RB allocation.

Step4: for TDD-LTE band take "UL-DLConfiguration" into consideration.

Summary Tests Results

Refers to previous investigation, we use the worst codec **AMR -NB12.2Kbps** for FDD-LTE and **AMR -NB4.75Kbps** for TDD-LTE. The worst configuration show as below perform all the test for each LTE bands.

Configuration for FDD-LTE:

MAX Bandwidth, QPSK, 1RB@0

Configuration for TDD-LTE:

MAX Bandwidth, QPSK, 1RB@50/lowest power class/UL-DL config0

Air interface	Channel	Orientation	ABM1 dB(A/m)	ABM2 dB(A/m)	Signal Quality dB	T-Rating ANSI C63.19	Freq. Response
FDD-LTE BAND2	18900	Axial (Z)	-3.24	-31.00	27.67	T3	---
		Transversal (Y)	-13.96	-40.78	26.82	T3	Pass
FDD-LTE BAND4	20175	Axial (Z)	-3.11	-32.27	29.16	T3	---
		Transversal (Y)	-15.11	-42.22	27.11	T3	Pass
FDD-LTE BAND5	20525	Axial (Z)	-3.36	-31.91	28.55	T3	---
		Transversal (Y)	-13.07	-45.14	32.07	T4	Pass
FDD-LTE BAND7	21100	Axial (Z)	-3.54	-32.18	28.64	T3	---
		Transversal (Y)	-12.62	-43.21	30.59	T4	Pass
FDD-LTE BAND12	23095	Axial (Z)	-3.60	-31.78	28.18	T3	---
		Transversal (Y)	-9.10	-44.23	35.13	T4	Pass
FDD-LTE BAND13	23230	Axial (Z)	-3.46	-33.25	29.80	T3	---
		Transversal (Y)	-11.98	-43.50	31.52	T4	Pass
FDD-LTE BAND17	23790	Axial (Z)	-3.73	-32.41	28.68	T3	---
		Transversal (Y)	-8.91	-41.78	32.87	T4	Pass
FDD-LTE BAND25	26365	Axial (Z)	-3.35	-33.38	30.03	T4	---
		Transversal (Y)	-15.17	-44.27	29.10	T3	Pass
TDD-LTE BAND26	26865	Axial (Z)	-3.65	-32.06	28.41	T3	---
		Transversal (Y)	-12.15	-41.18	29.03	T3	Pass
FDD-LTE BAND38	38000	Axial (Z)	-3.56	-31.59	28.03	T3	---
		Transversal (Y)	-14.83	-42.89	28.06	T3	Pass
TDD-LTE BAND41	40620	Axial (Z)	-6.19	-31.56	25.37	T3	---
		Transversal (Y)	-13.10	-35.06	21.96	T3	Pass
FDD-LTE BAND66	132322	Axial (Z)	-4.48	-28.44	23.95	T3	---
		Transversal (Y)	-13.87	-35.28	21.41	T3	Pass

10.4VOWIFI Test Result

Codec Investigation

AMR Codec Investigation

codec	AMR- WB 6.60kbps	AMR- WB 23.85kbps	AMR- NB 4.75kbps	AMR- NB 12.2kbps	EVS- SWB 9.60kbps	EVS- SWB 24.4kbps	EVS -WB 5.90kbps	EVS -WB 24.4kbps	EVS -NB 5.90kbps	EVS -NB 24.4kbps	Worst Orientation	Band/channel/Rate
ABM1 [dB A/m]	4.06	4.68	-4.7	-2.03	-2.55	-2.14	4.91	-1.28	-2.92	-1.72	Axial(Y)	802.11b 2.4GHz/6/1Mbps
ABM2 [dB A/m]	-32.48	-32.66	-32.17	-32.75	-34.34	-32.74	-32.41	-34.16	-31.1	-32.38		
SNR [dB]	36.54	37.34	27.47	30.72	31.79	30.6	37.32	32.88	28.18	30.66		

Radio Configuration Investigation

For WIFI radio configuration investigation, we use codec **AMR-NB4.75Kbps** determined by Codec Investigation which represents the worst codec future.

Air interface		BW	Data rate	Channel	ABM1 [dB A/m] Axial(Y)	ABM2[dB A/m] Axial(Y)	Signal Quality dB
WLAN 2.4GHz	802.11b	20	1M	6	-4.70	-32.17	27.47
	802.11b	20	11M	6	-4.66	-32.25	27.59
	802.11g	20	6M	6	-4.85	-30.67	25.82
	802.11g	20	54M	6	-4.69	-30.74	26.05
	802.11n-HT20	20	MCS0	6	-4.60	-32.10	27.50
	802.11n-HT20	20	MCS7	6	-4.61	-32.45	27.84
	802.11n-HT40	40	MCS0	6	-6.72	-34.83	28.11
	802.11n-HT40	40	MCS7	6	-4.66	-35.06	30.40

WLAN 5GHz	802.11a	20	6Mbps	40	-4.69	-34.33	29.64
	802.11a	20	54Mbps	40	-4.67	-34.61	29.94
	802.11n-HT20	20	MCS0	40	-4.68	-33.67	28.99
	802.11n-HT20	20	MCS7	40	-4.79	-33.43	28.64
	802.11n-HT40	40	MCS0	38	-4.87	-31.15	26.28
	802.11n-HT40	40	MCS7	38	-4.95	-32.84	27.89
	802.11ac-VHT20	20	MCS0	40	-4.84	-33.96	29.12
	802.11ac-VHT20	20	MCS8	40	-4.69	-30.88	26.19
	802.11ac-VHT40	40	MCS0	38	-4.88	-32.31	27.43
	802.11ac-VHT40	40	MCS8	38	-4.75	-31.62	26.87
	802.11ac-VHT80	80	MCS0	50	-4.82	-33.09	28.27
	802.11ac-VHT80	80	MCS8	50	-4.81	-33.41	28.60

Summary Tests Results

We use codec **AMR-NB4.75Kbps** and the worst configuration describe as below perform the test for each WIFI bands.

Configuration for WIFI 2.4GHz use **802.11g6Mbps** and for WIFI 5GHz use **802.11ac-VHT20MCS8**

Air interface	Mode	Channel	Orientation	ABM1 dB(A/m)	ABM2 dB(A/m)	Signal Quality dB	T-Rating ANSI C63.19	Freq. Response
WIFI2.4GHz	802.11g 6Mbps	6	Axial (Z)	-4.85	-30.67	25.82	T3	PASS
			Transversal (Y)	-13.15	-35.76	22.61	T3	/
WIFI5GHz	802.11ac MCS8	40	Axial (Z)	-4.69	-30.88	26.19	T3	PASS
			Transversal (Y)	-13.39	-39.69	26.30	T3	/
WIFI5GHz	802.11ac MCS8	60	Axial (Z)	-4.76	-33.89	29.13	T3	PASS
			Transversal (Y)	-12.91	-41.79	28.88	T3	/
WIFI5GHz	802.11ac MCS8	124	Axial (Z)	-4.73	-33.46	28.73	T3	PASS
			Transversal (Y)	-13.15	-41.13	27.98	T3	/
WIFI5GHz	802.11ac MCS8	157	Axial (Z)	-4.70	-32.96	28.26	T3	PASS
			Transversal (Y)	-13.02	-39.79	26.77	T3	/

11 T-Coil testing for OTT VoIP Application

1. According to the ANSI C63.19 2011 section 7.3.2, test middle channel of each frequency band for HAC testing for each orientation to determine worst HAC T-Coil rating.
2. The google Duo VoIP application are pre-installed on this device. According to KDB 285076 D02, all air interfaces via a data connection with VoIP application need to be considered HAC testing.
3. The Google Duo only support OPUS audio codec and support 6Kbps to 75Kbps bitrate.
4. The test setup used for OTT VoIP call is the DUT connect to the CMW500 and via the data application unit on CMW500 connection to the Internet, the Auxiliary EUT is connected to the WiFi access point, the channel/Modulation/Frequency bands/data rate is configured on the CMW500 for the DUT unit. For the Auxiliary VoIP unit which is used to configure the audio codec rate and determine the audio input level of -20dBm0 based on the KDB 285076 D02v03 requirement.
5. Codec Investigation: For a voice service/air interface, investigate the variations of codec configurations (WB, NB bit rate) and document the parameters (ABM1, ABM2, S+N/N, frequency response) for that voice service. It is only necessary to document this for one channel/band, the following tests results which the worst case codec would be remarked to be used for the testing for the handset.
6. Air Interface Investigation:
 - a. Use the worst-case codec test and document a limited set of bands/channel/bandwidths. Observe the effect of changing the band and bandwidth to ensure that there are no unexpected variations. Using the knowledge of the observed variations, it is necessary to report only a set band/channel/bandwidth for each orientation for a voice service/air interface.
 - b. Due to OTT service and CMRS IP service are all be established over the internet protocol for the voice service, and on both services use the identical RF air interface for the WIFI and LTE, therefore according to VoLTE and VoWiFi test results of air interface investigation, the worst configuration and frequency band of air interface was used for OTT T-Coil testing.

11.1 GSM Test Result

Codec Investigation:

EDGE:

codec	OPUS 6kbps	OPUS 40kbps	OPUS 75kbps	Worst Orientation	Band/channel
ABM1 [dB A/m]	2.24	2.49	2.79	Axial(Z)	GSM850
ABM2 [dB A/m]	-33.56	-33.18	-33.13		EGPRS 2TS
SNR [dB]	35.80	35.67	35.92		/CH 190

11.2 WCDMA Test Result

Codec Investigation:

HSPA:

codec	OPUS 6kbps	OPUS 40kbps	OPUS 75kbps	Worst Orientation	Band/channel
ABM1 [dB A/m]	2.14	1.15	-0.77	Axial(Z)	WCDMA Band5/CH4182
ABM2 [dB A/m]	-33.51	-33.07	-34.37		
SNR [dB]	35.65	34.22	33.6		

11.3 LTE Test Result

Codec Investigation:

LTE FDD:

codec	OPUS 6kbps	OPUS 40kbps	OPUS 75kbps	Worst Orientation	Band/ BW/ channel/ Modulation
ABM1 [dB A/m]	1.69	-0.24	2.12	Axial(Z)	LTE Band 2/20M/18900/QPSK
ABM2 [dB A/m]	-32.00	-31.77	-33.54		
SNR [dB]	33.69	31.53	35.66		

Codec Investigation:

LTE TDD:

codec	OPUS 6kbps	OPUS 40kbps	OPUS 75kbps	Worst Orientation	Band/ BW/ channel/ Modulation
ABM1 [dB A/m]	1.87	2.42	2.49	Axial(Z)	LTE Band 41/10M/40620/QPSK
ABM2 [dB A/m]	-29.83	-29.78	-30.12		
SNR [dB]	31.70	32.20	32.61		

11.4 WIFI Test Result

Codec Investigation:

WiFi:

codec	OPUS 6kbps	OPUS 40kbps	OPUS 75kbps	Worst Orientation	Band/channel/Rate
ABM1 [dB A/m]	1.50	1.77	2.28	Axial(Z)	802.11g 2.4GHz/6/6Mbps
ABM2 [dB A/m]	-31.80	-32.44	-33.54		
SNR [dB]	33.30	34.21	35.82		
ABM1 [dB A/m]	2.190	2.07	2.33	Axial(Z)	802.11ac 5GHz/40/MCS8
ABM2 [dB A/m]	-33.61	-34.14	-34.00		
SNR [dB]	35.80	36.21	36.33		

Summary Tests Results

Air interface	Channel	Orientation	ABM1 dB(A/m)	ABM2 dB(A/m)	Signal Quality dB	T-Rating ANSI C63.19	Freq. Response
GSM850	190	Axial (Z)	2.49	-33.18	35.67	T4	PASS
		Transversal (Y)	-5.98	-39.81	33.83	T4	---
WCMDA BAND4	1412	Axial (Z)	-0.77	-34.37	33.60	T4	PASS
		Transversal (Y)	-7.10	-40.96	33.86	T4	---
FDD-LTE BAND2	18900	Axial (Z)	-0.24	-31.77	31.53	T4	PASS
		Transversal (Y)	-7.92	-38.69	30.77	T4	---
FDD-LTE BAND41	40620	Axial (Z)	1.87	-29.83	31.70	T4	PASS
		Transversal (Y)	-6.83	-35.80	28.97	T3	---

Air interface	Mode	Channel	Orientation	ABM1 dB(A/m)	ABM2 dB(A/m)	Signal Quality dB	T-Rating ANSI C63.19	Freq. Response
WIFI2.4GHz	802.11g 6Mbps	6	Axial (Z)	1.50	-31.80	33.30	T4	PASS
			Transversal (Y)	-7.61	-39.68	32.07	T4	---
WIFI5GHz	802.11ac MCS8	40	Axial (Z)	2.19	-33.61	35.80	T4	PASS
			Transversal (Y)	-6.35	-40.46	34.11	T4	---

12 Test Equipments

The measurements were performed using an automated near-field scanning system, DASY5, manufactured by Schmid & Partner Engineering AG (SPEAG) in Switzerland.

The following table lists calibration dates of components:

Test equipment	Model	S/N	Cal Date	Cal Due Date
DAE	DAE4	720	2020.09.30	2021.09.29
Audio Magnetic Probe	AM1DV2	1021	2020.10.22	2021.10.21
Audio Magnetic Measurement Instrument	TMFS	1013	2020.10.27	2021.10.26
Radio Tester	CMU200	114666	2021.06.21	2022.06.20
Radio Tester	CMW500	161702	2021.06.21	2022.06.20

Support equipment	S/N
AMMI	1045
HAC Phantom part1	1080
HAC Phantom part2	1042

12.1 Audio Magnetic Probe AM1DV2

Construction	Fully RF shielded metal construction (RF sensitivity<-100 dB)
System Calibration	Calibrated using Helmholtz coil according to manufacturer's instructions
Frequency	0.1-20kHz(HOX!test signal is limited to required BW of 300 to 3000Hz,ANSI C63.19);
Sensitivity	<-50dB A/m
Dimensions	Overall length:290mm; Tip diameter:6mm

12.2 Audio Magnetic Measurement Instrument AMMI

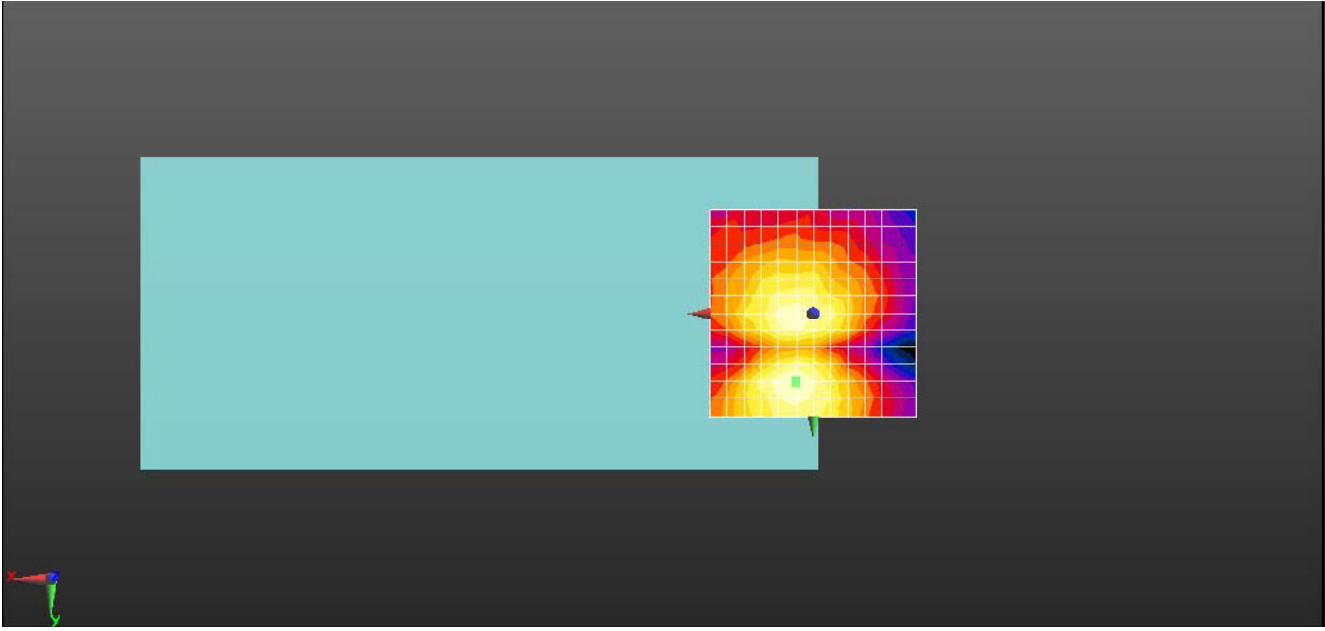
Sampling rate	48kHz/24bit
Dynamic Range	85dB
Test Signal generation	User selectable and predefined(via pc)
System calibration	Auto-calibration/full system calibration using AMCC with monitor output

12.3 Audio Magnetic calibration Coil AMCC

Dimensions	370 x 370 x 196 mm (ANSI-C63.19 compliant)
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ANNEX A: TEST PLOTS

A.1 Test Plot for Standard Phone Application

GSM850	Axial Y
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK);Frequency: 836.4 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM835_T-Coil_HAC Full rate version1 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.16 dB Device Reference Point: 0, 0, -6.3 mm</p> <p>Cursor: ABM1/ABM2 = 34.60 dB ABM1 comp = -5.31 dBA/m BWC Factor = 0.16 dB Location: 4.2, 16.7, 3.7 mm</p> 	

GSM850

Axial Z & Frequency Resp.

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.4 MHz;
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: TCoil Section

DASY Configuration:

- Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn720; Calibrated: 2020/9/30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM835_T-Coil_HAC Full rate version1 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Output Gain: 34.99

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 29.17 dB

ABM1 comp = 1.71 dBA/m

BWC Factor = 0.16 dB

Location: 0, 8.3, 3.7 mm

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM835_T-Coil_HAC Full rate version1 2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 68.52

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

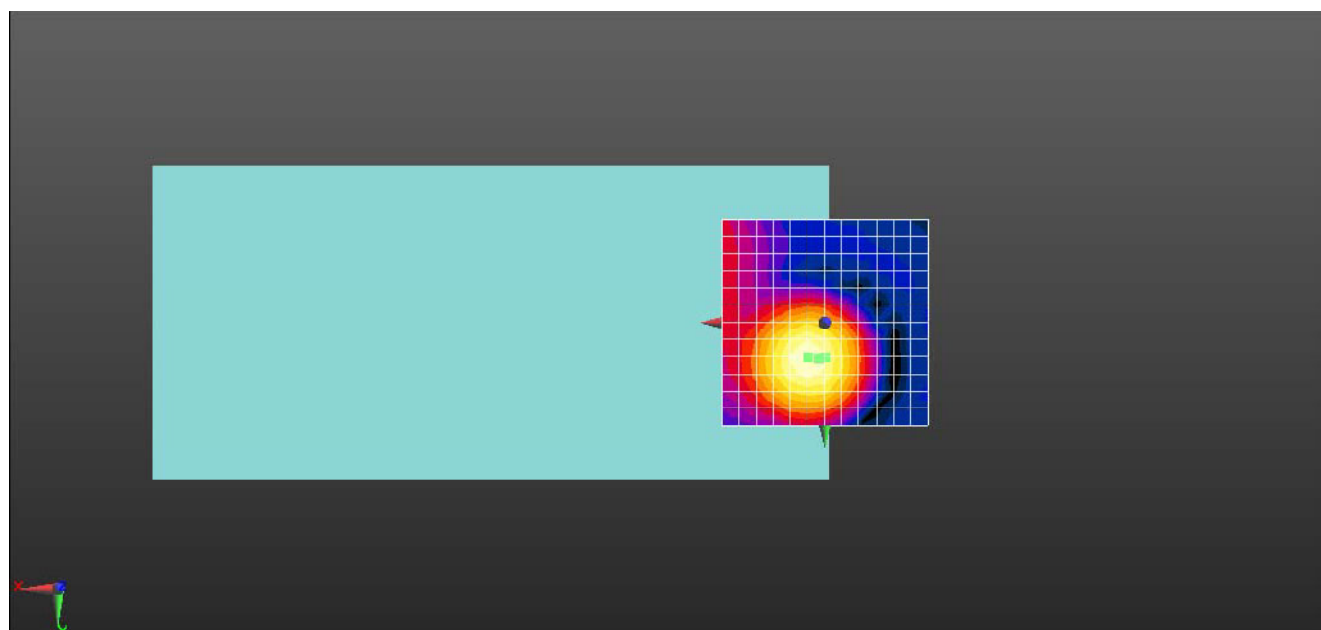
Device Reference Point: 0, 0, -6.3 mm

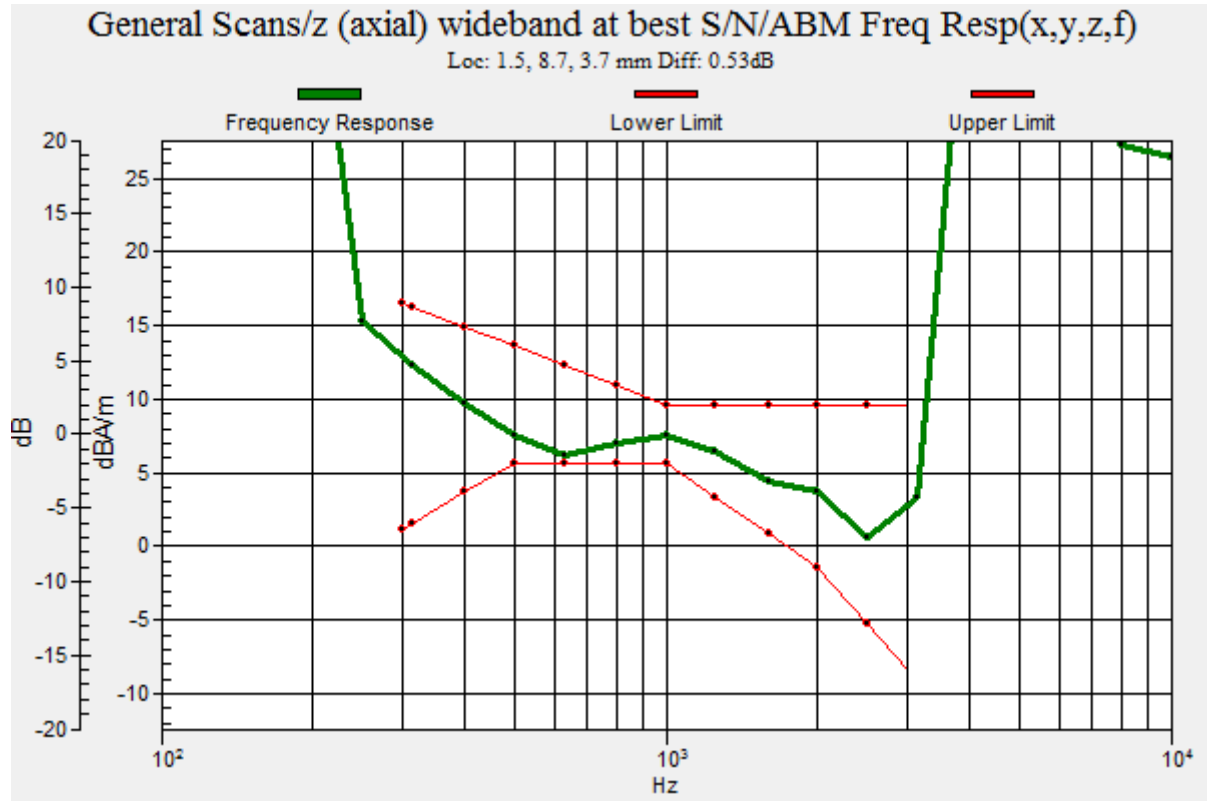
Cursor:

Diff = 0.53 dB

BWC Factor = 0.16 dB

Location: 0, 8.3, 3.7 mm





GSM850 VoIP

Axial Y

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK);Frequency: 836.4 MHz;
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: TCoil Section
DASY Configuration:

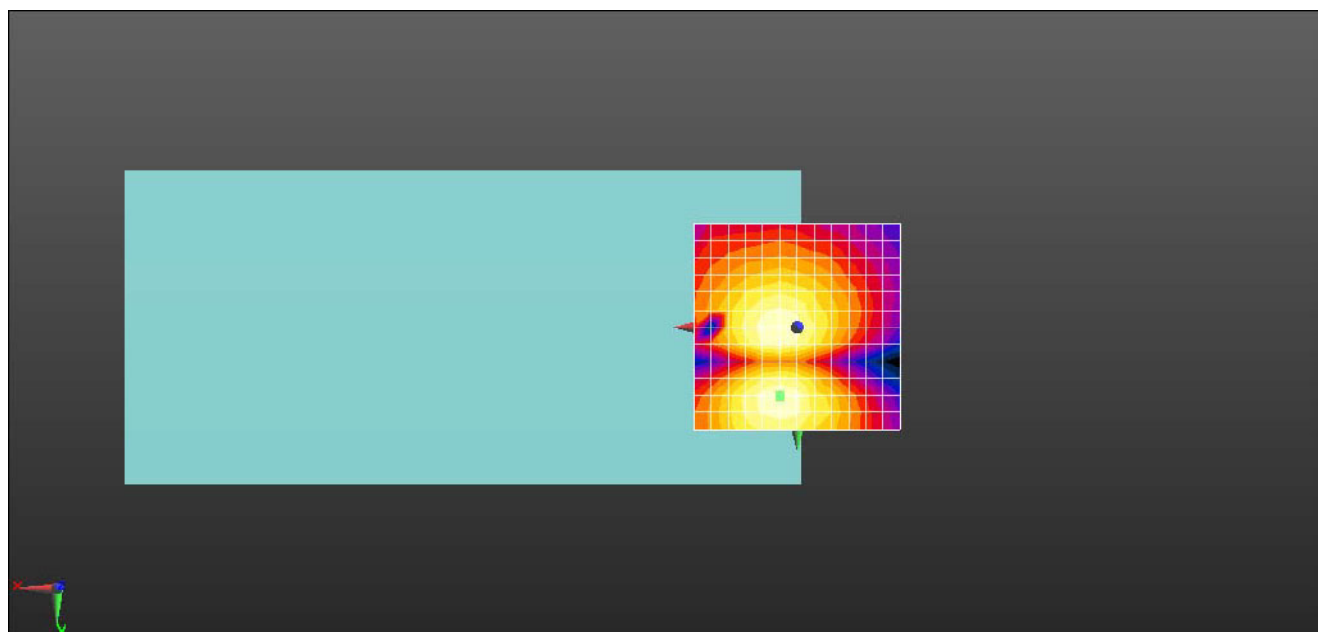
- Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn720; Calibrated: 2020/9/30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM835_T-Coil_HAC Full rate version1 2/y (transversal)
4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 34.99
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.16 dB
Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 33.83 dB
ABM1 comp = -5.98 dBA/m
BWC Factor = 0.16 dB
Location: 4.2, 16.7, 3.7 mm



GSM850 VoIP

Axial Z & Frequency Resp.

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK);Frequency: 836.4 MHz;
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: TCoil Section

DASY Configuration:

- Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn720; Calibrated: 2020/9/30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM835_T-Coil_HAC Full rate version1 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Output Gain: 34.99

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 35.67 dB

ABM1 comp = 2.49 dBA/m

BWC Factor = 0.16 dB

Location: 4.2, 8.3, 3.7 mm

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM835_T-Coil_HAC Full rate version1 2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 68.52

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

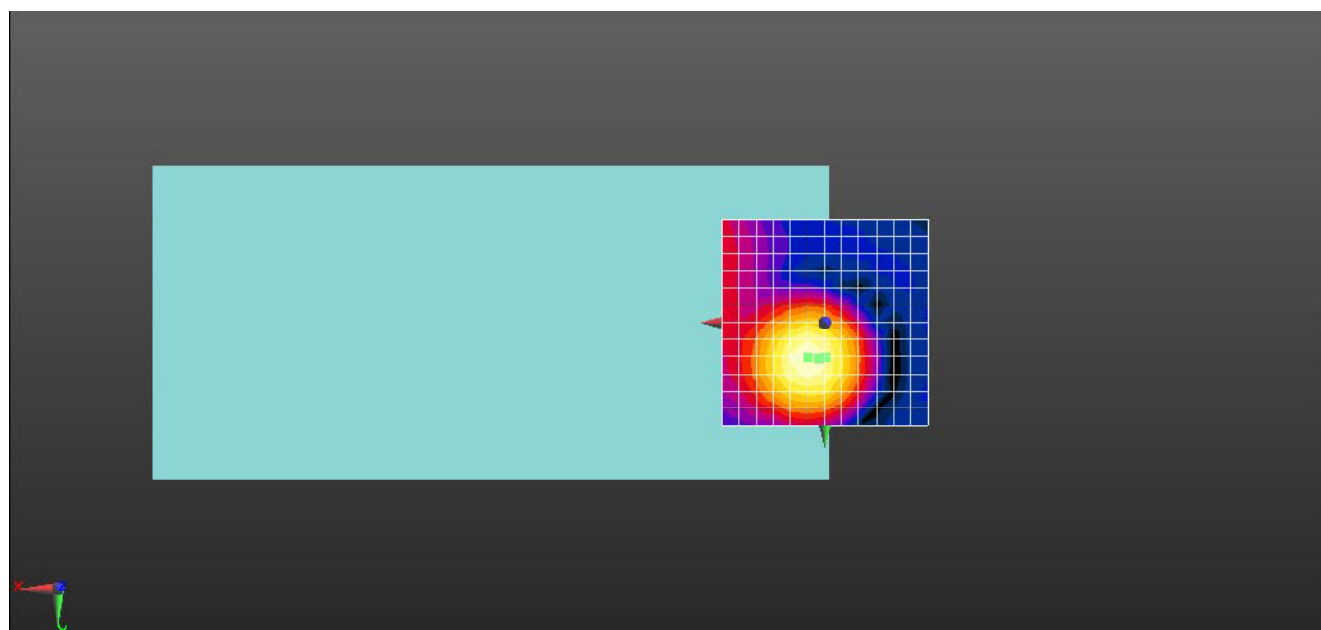
Device Reference Point: 0, 0, -6.3 mm

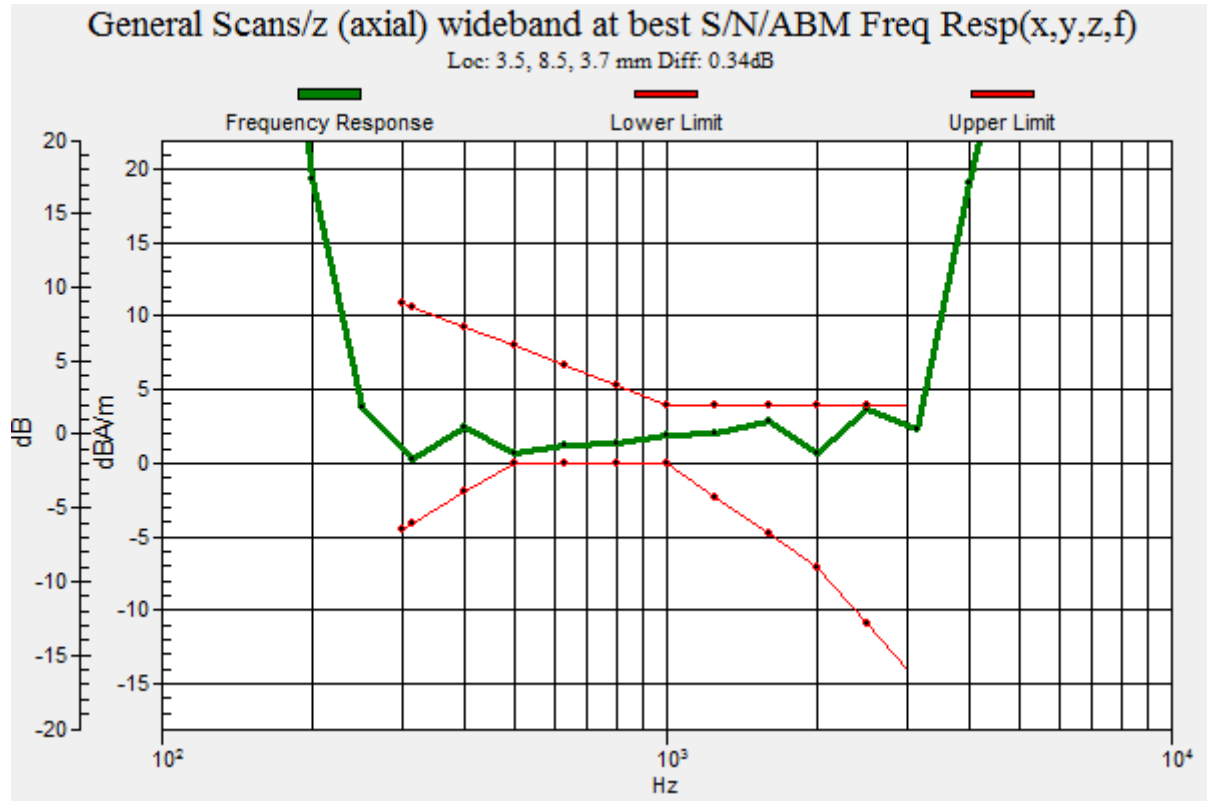
Cursor:

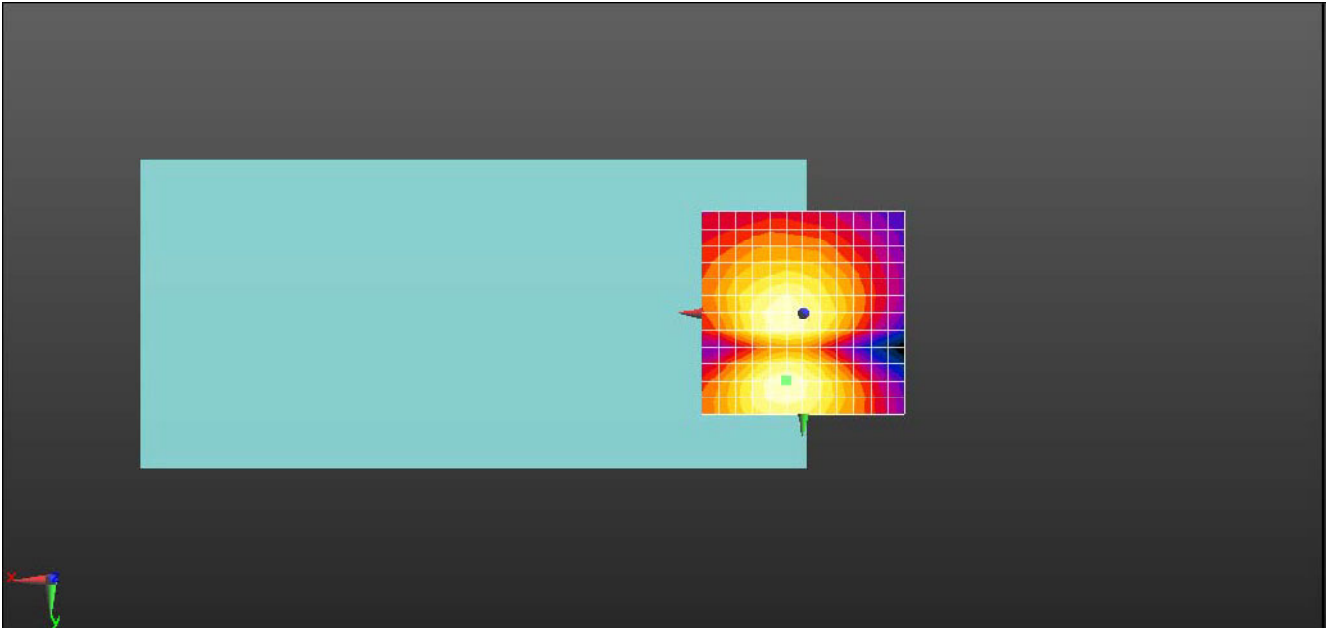
Diff = 0.34 dB

BWC Factor = 0.16 dB

Location: 4.2, 8.3, 3.7 mm





GSM1900	Axial Y
<p>Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p>	
<ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM1900_T-Coil_HAC Full rate version1 2 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.16 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 35.74 dB ABM1 comp = -4.29 dBA/m BWC Factor = 0.16 dB Location: 4.2, 16.7, 3.7 mm</p>	
	

GSM1900

Axial Z & Frequency Resp.

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;

Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: TCoil Section

DASY Configuration:

- Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn720; Calibrated: 2020/9/30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM1900_T-Coil_HAC Full rate version1 2 2/z (axial) 4.2mm

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

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

Output Gain: 34.99

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.16 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 32.66 dB

ABM1 comp = 3.98 dBA/m

BWC Factor = 0.16 dB

Location: 4.2, 8.3, 3.7 mm

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_GSM1900_T-Coil_HAC Full rate version1 2 2/z (axial)

wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 68.52

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

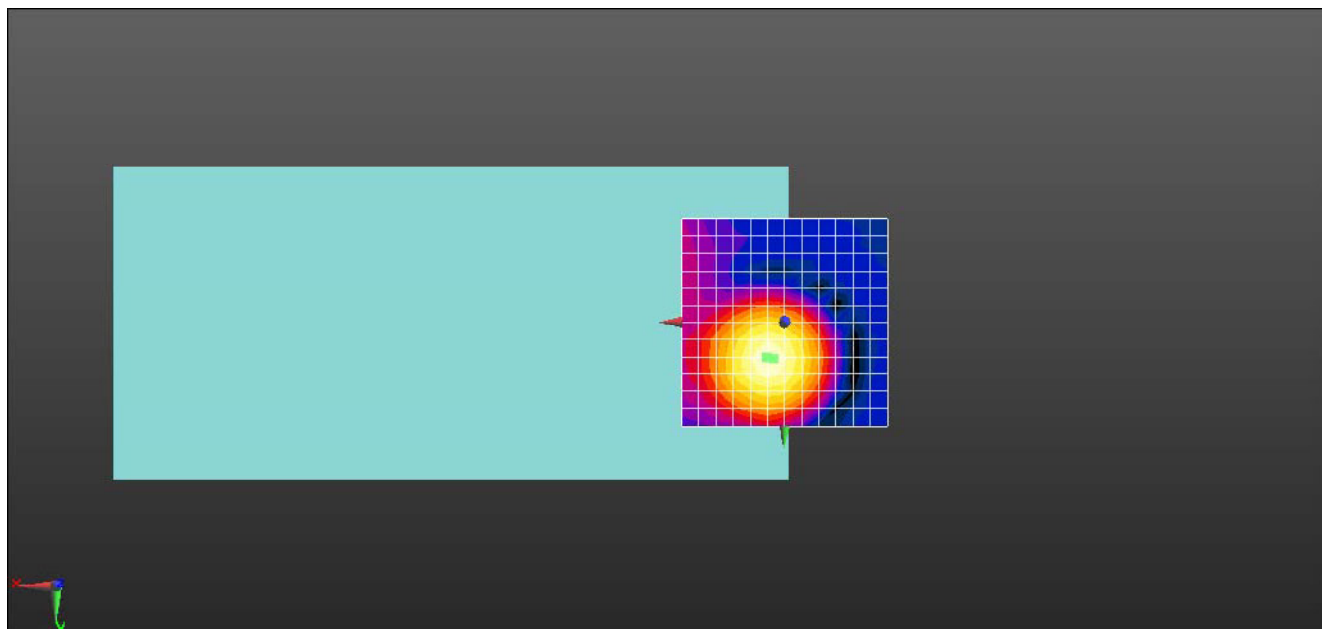
Device Reference Point: 0, 0, -6.3 mm

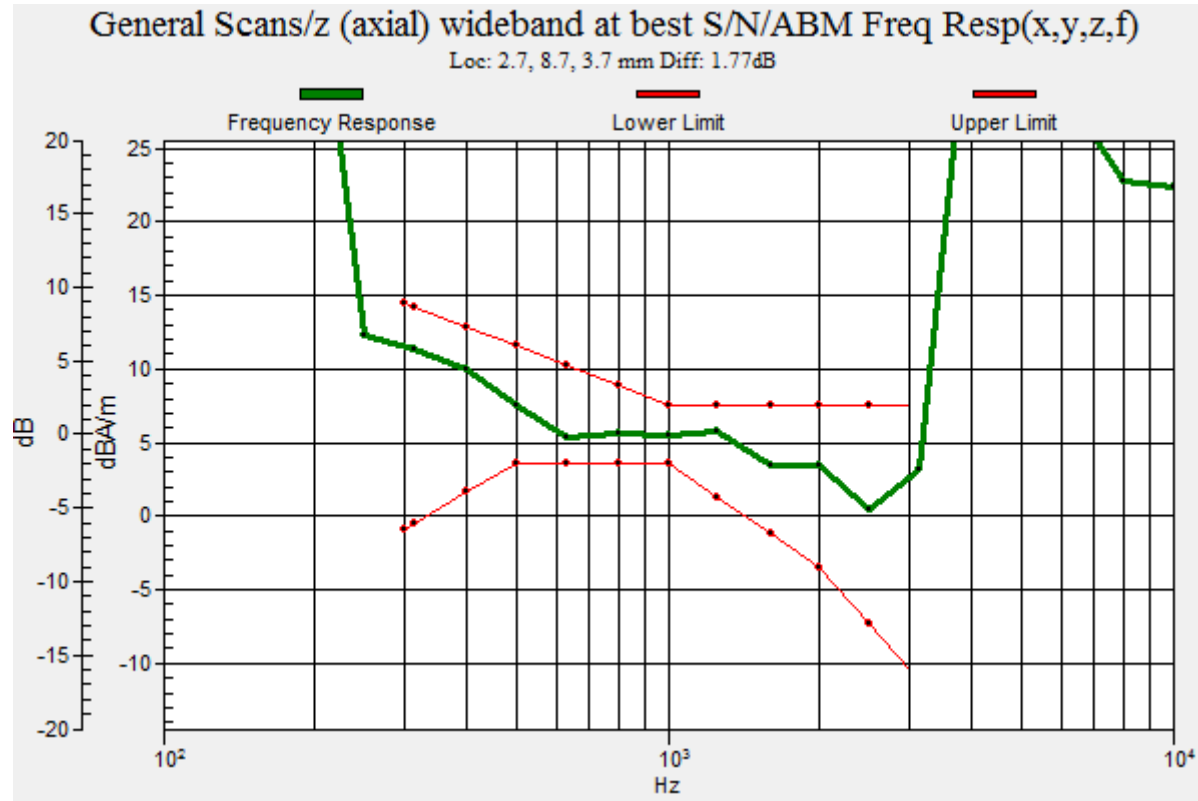
Cursor:

Diff = 1.77 dB

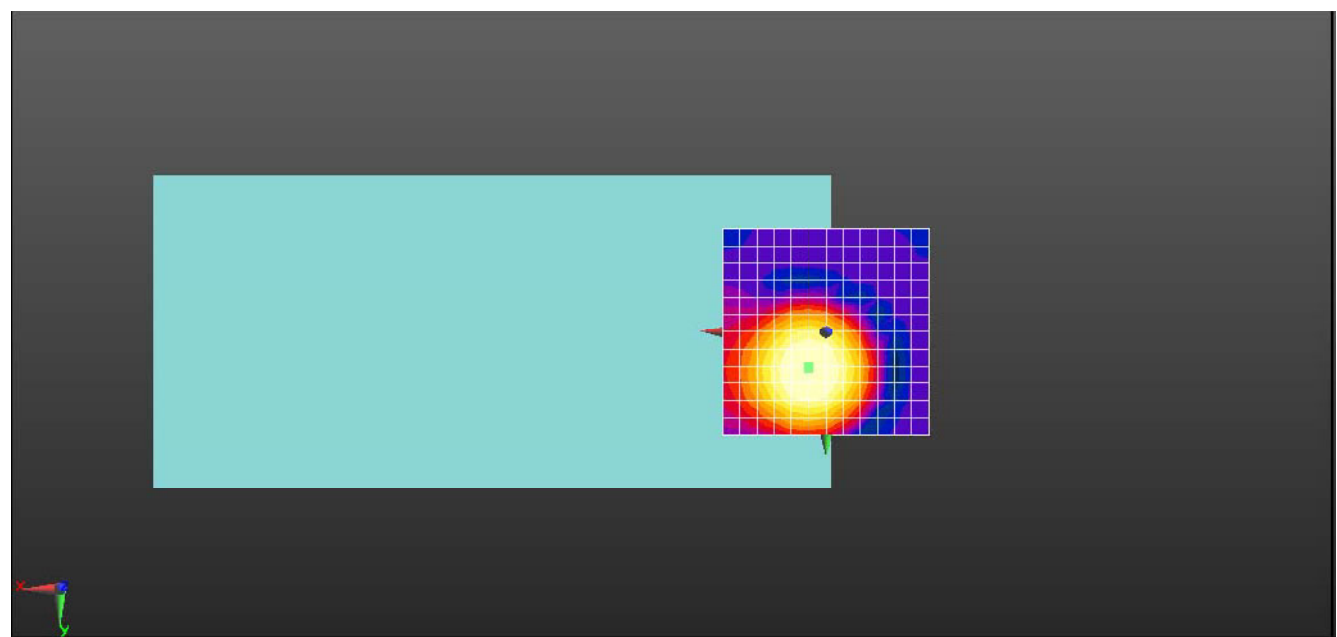
BWC Factor = 10.80 dB

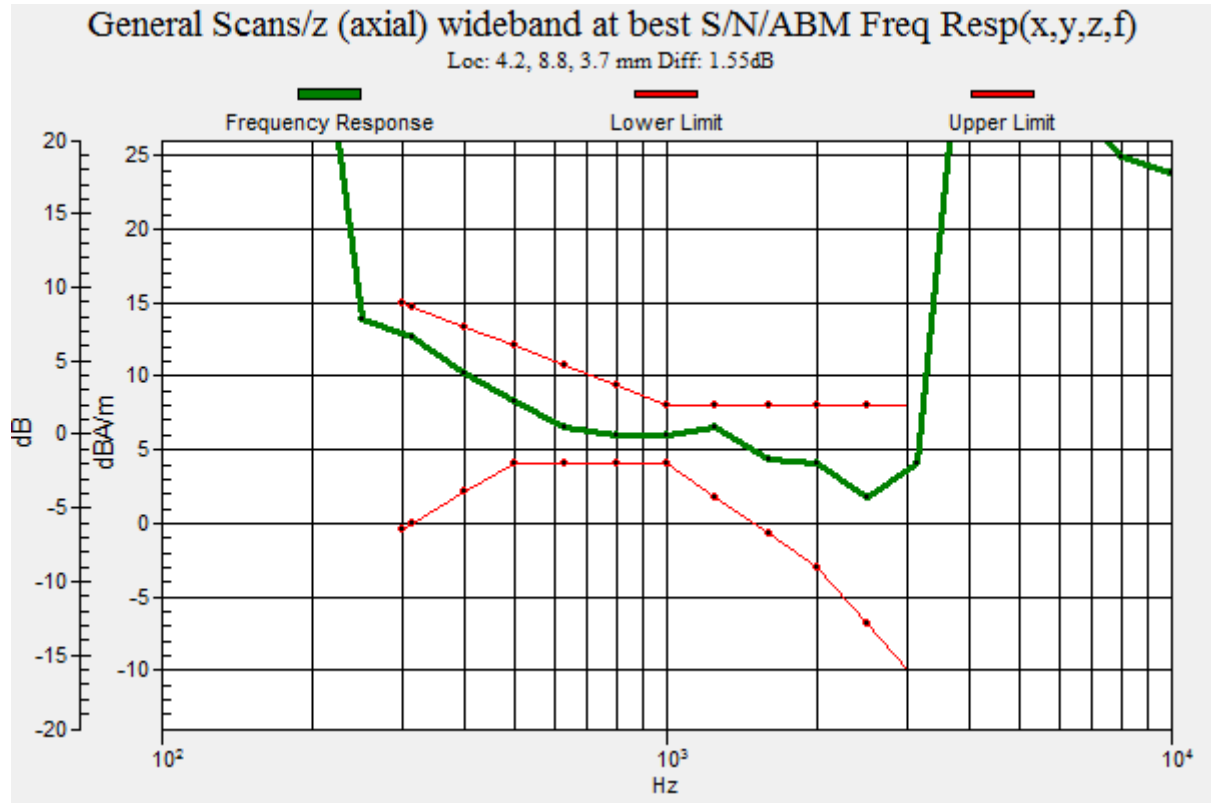
Location: 20.7, 20.9, 3.9 mm

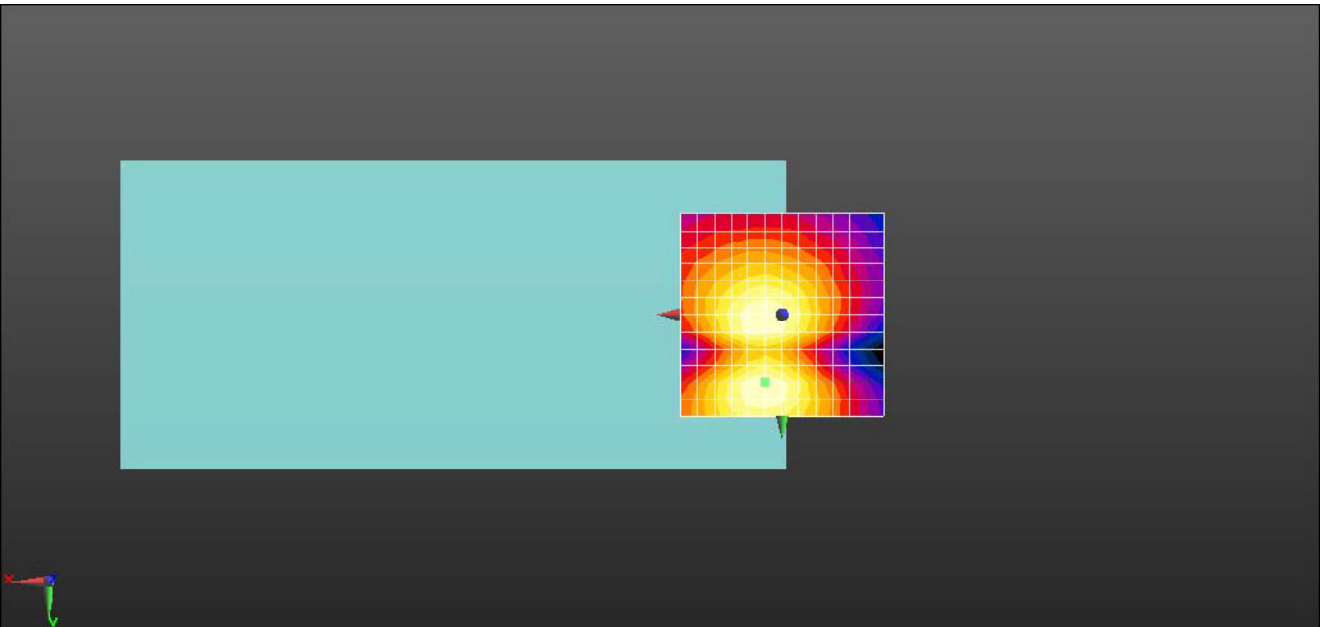


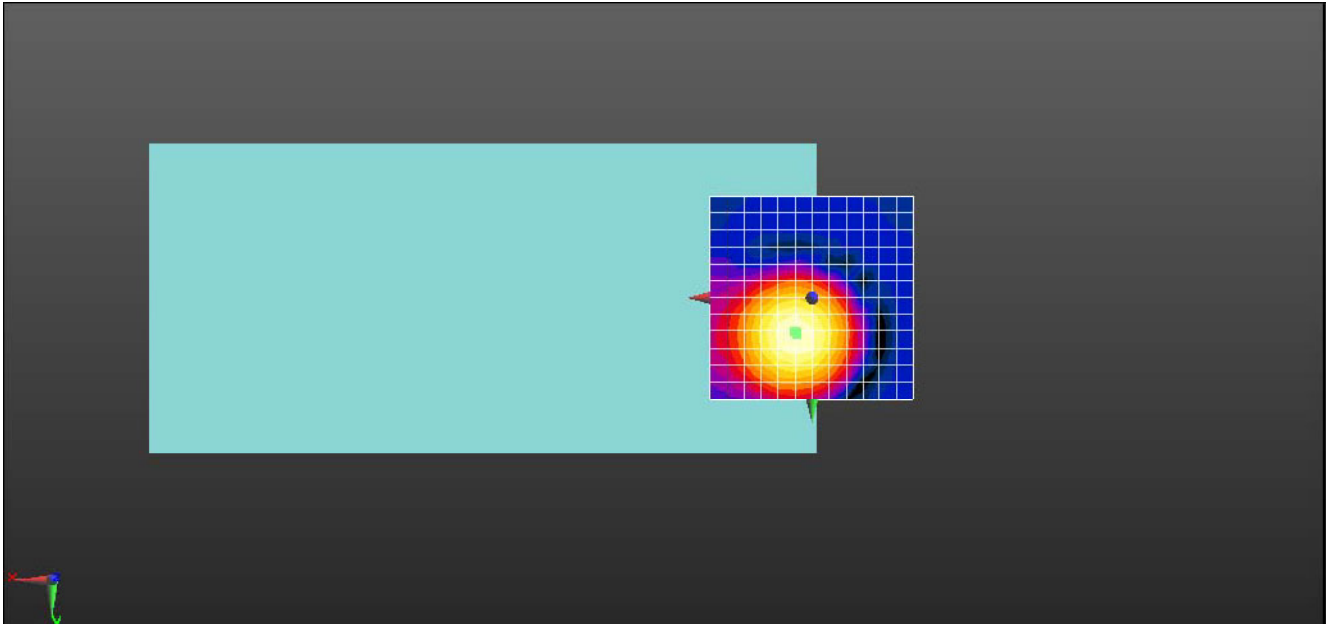


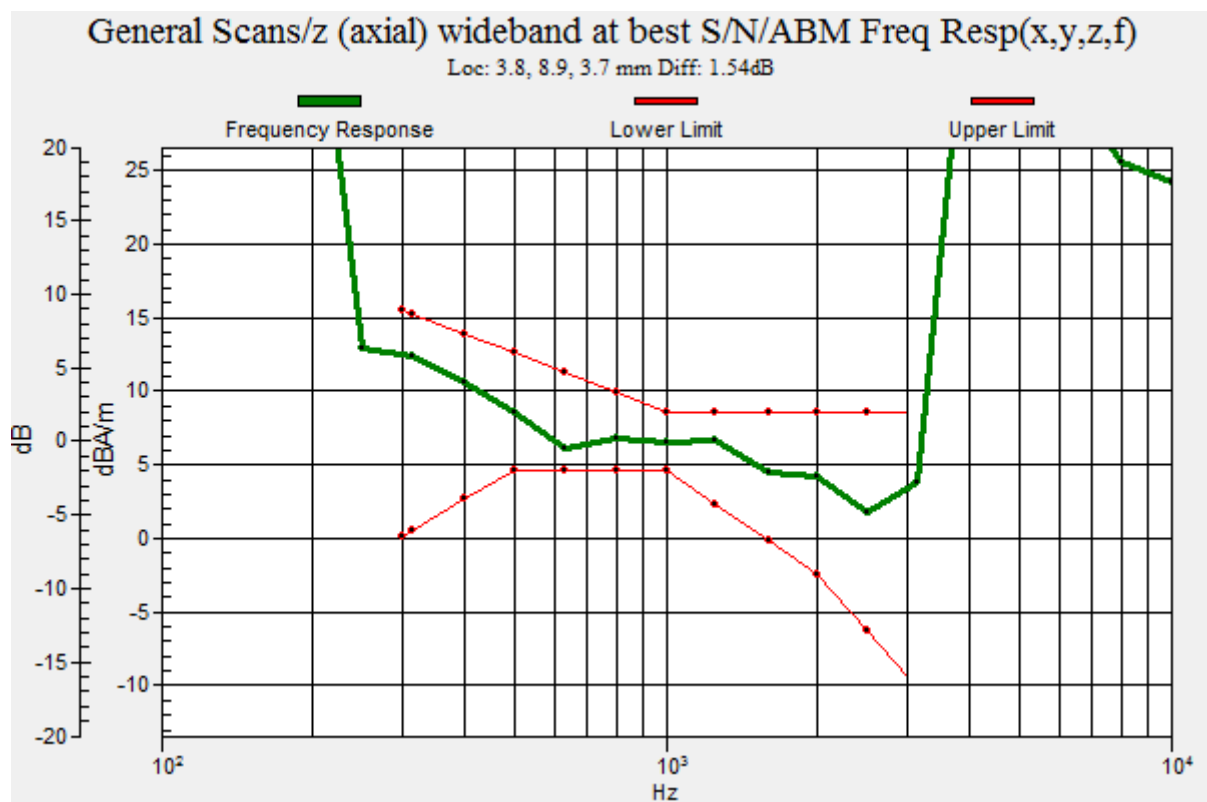
WCDMA BAND2	Axial Y
<p>Communication System: UID 10460 - AAA, UMTS-FDD (WCDMA, AMR); Frequency: 1880 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 2_T-Coil_HAC AMR 4.75Kbps 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.16 dB Device Reference Point: 0, 0, -6.3 mm</p> <p>Cursor: ABM1/ABM2 = 37.34 dB ABM1 comp = -4.99 dBA/m BWC Factor = 0.16 dB Location: 4.2, 0, 3.7 mm</p> <div style="text-align: center;"> </div>	

WCDMA BAND2	Axial Z & Frequency Resp.
<p>Communication System: UID 10460 - AAA, UMTS-FDD (WCDMA, AMR); Frequency: 1880 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 2_T-Coil_HAC AMR 4.75Kbps 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.16 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 36.64 dB ABM1 comp = 3.70 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 2_T-Coil_HAC AMR 4.75Kbps 2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 68.52 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 1.55 dB BWC Factor = 10.80 dB Location: -17.8, -11.9, 3.7 mm</p>	
	



WCDMA BAND4	Axial Y
<p>Communication System: UID 10460 - AAA, UMTS-FDD (WCDMA, AMR); Frequency: 1732.6 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p>	
<ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 4_T-Coil_HAC AMR 4.75Kbps/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 35.65 dB ABM1 comp = -5.80 dBA/m BWC Factor = 0.16 dB Location: 0, 0, 3.7 mm</p>	
	

WCDMA BAND4	Axial Z & Frequency Resp.
<p>Communication System: UID 10460 - AAA, UMTS-FDD (WCDMA, AMR); Frequency: 1732.6 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 4_T-Coil_HAC AMR 4.75Kbps/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 33.29 dB ABM1 comp = 3.35 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 4_T-Coil_HAC AMR 4.75Kbps/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: 68.52 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 1.54 dB BWC Factor = 10.79 dB Location: 1.2, 7.4, 3.7 mm</p>	
	



WCDMA BAND4 VoIP

Axial Y

Communication System: UID 10460 - AAA, UMTS-FDD (WCDMA, AMR); Frequency: 1732.6 MHz;
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: TCoil Section

DASY Configuration:

- Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn720; Calibrated: 2020/9/30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 4_T-Coil_HAC AMR 4.75Kbps/y (transversal)

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

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

Output Gain: 34.99

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.15 dB

Device Reference Point: 0, 0, -6.3 mm

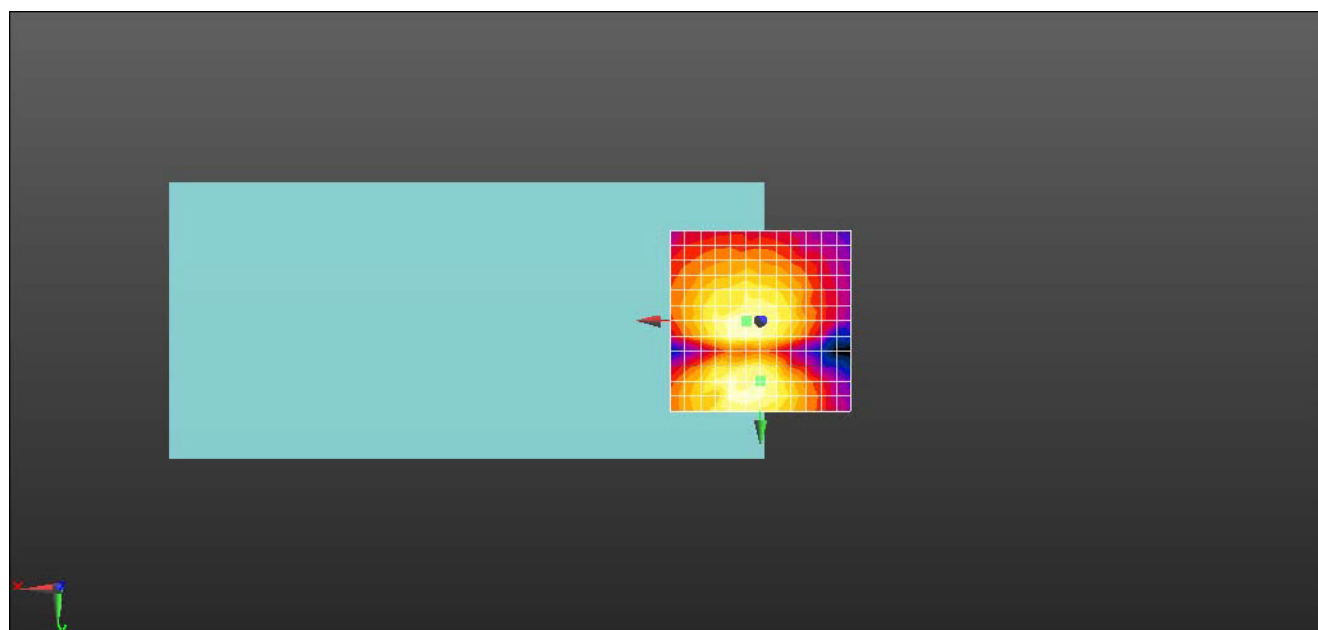
Cursor:

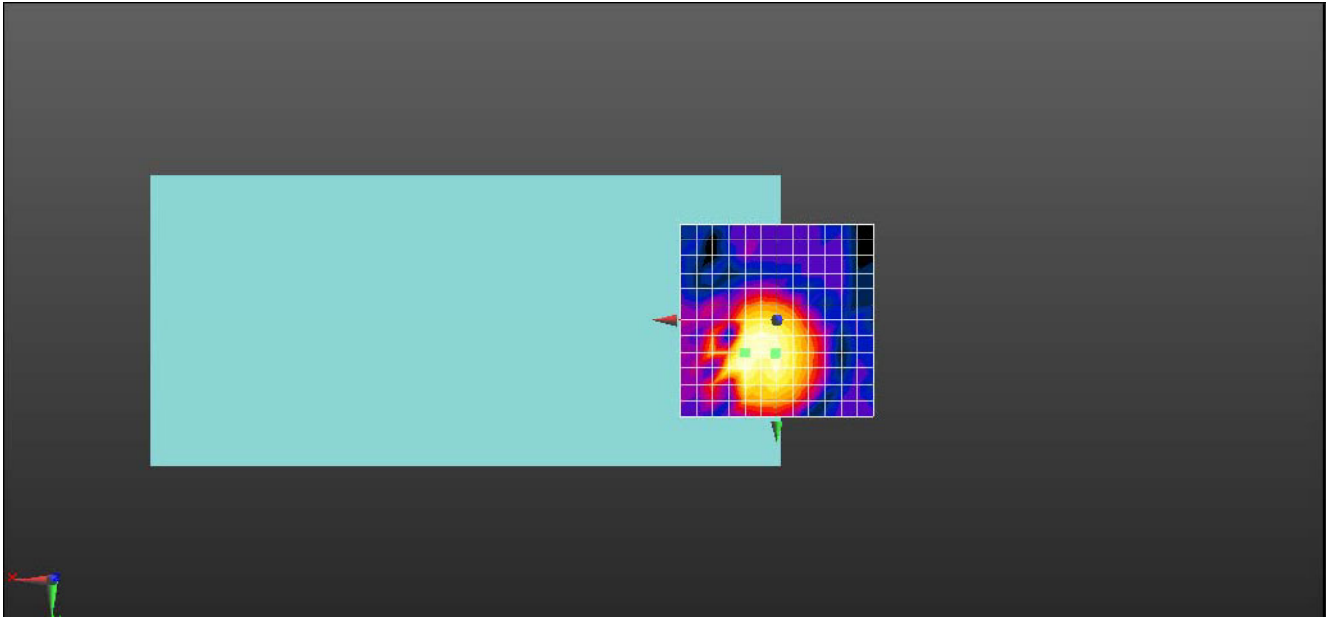
ABM1/ABM2 = 33.86 dB

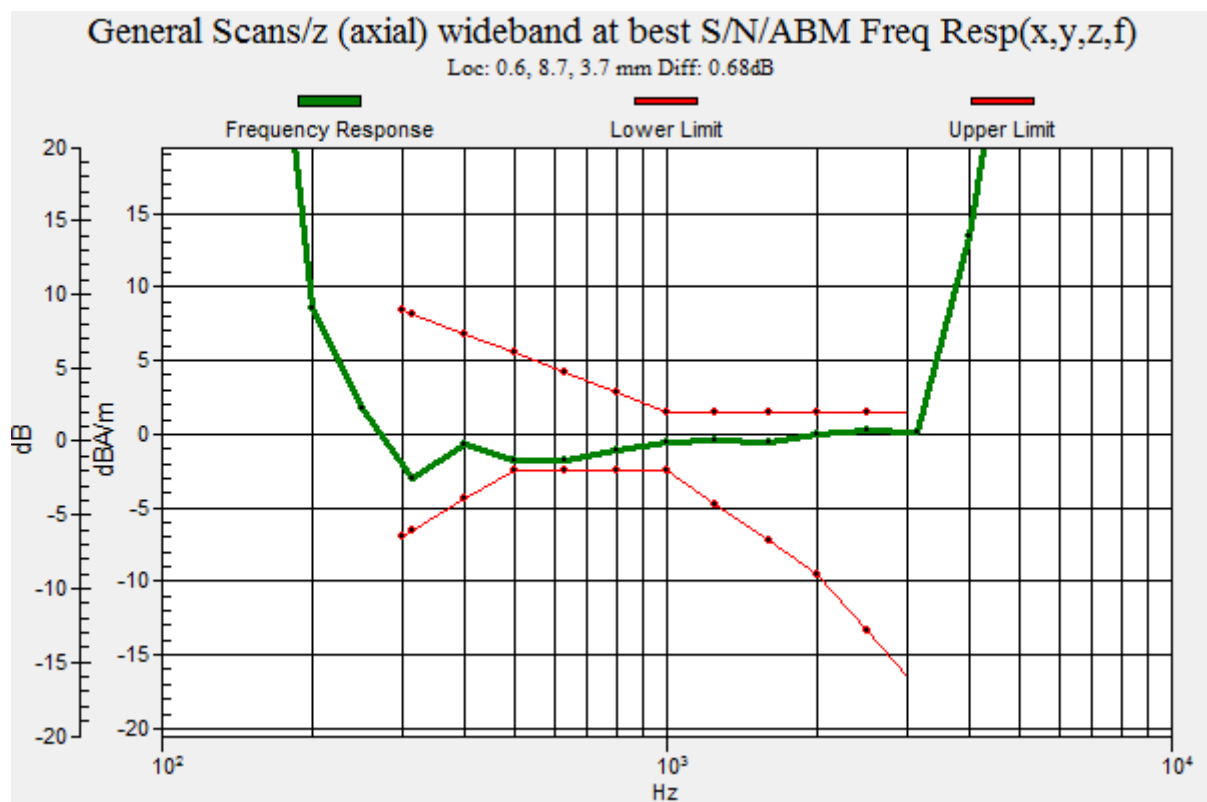
ABM1 comp = -7.10 dBA/m

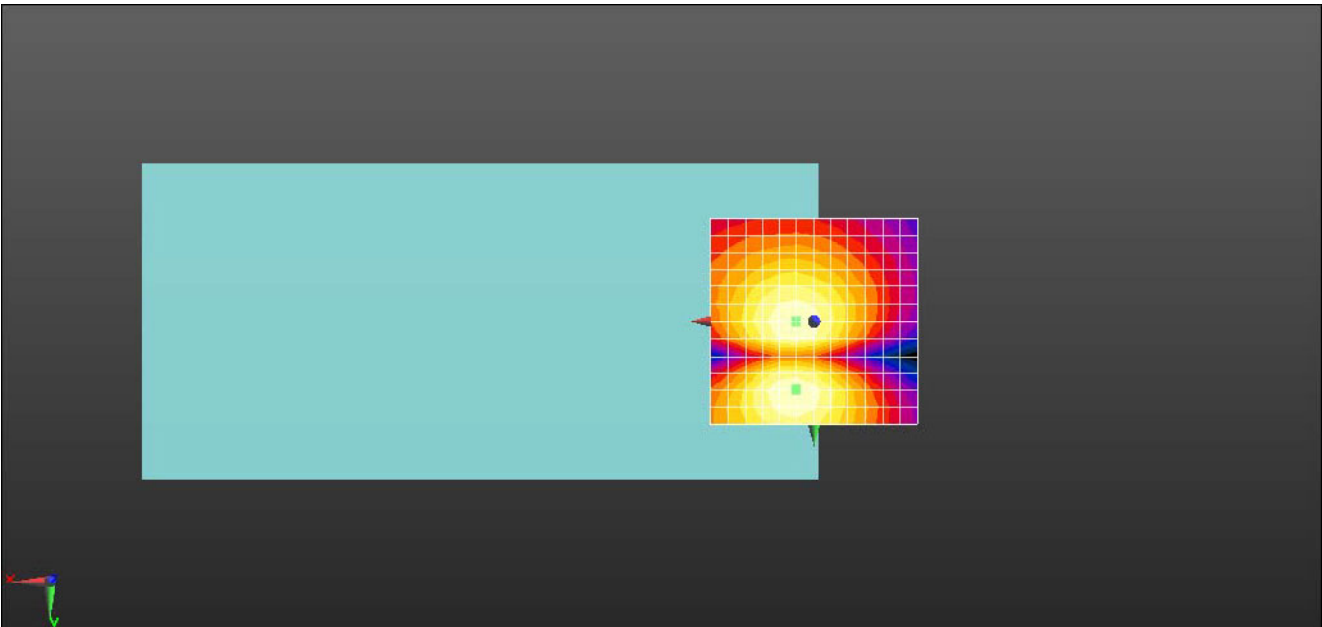
BWC Factor = 0.16 dB

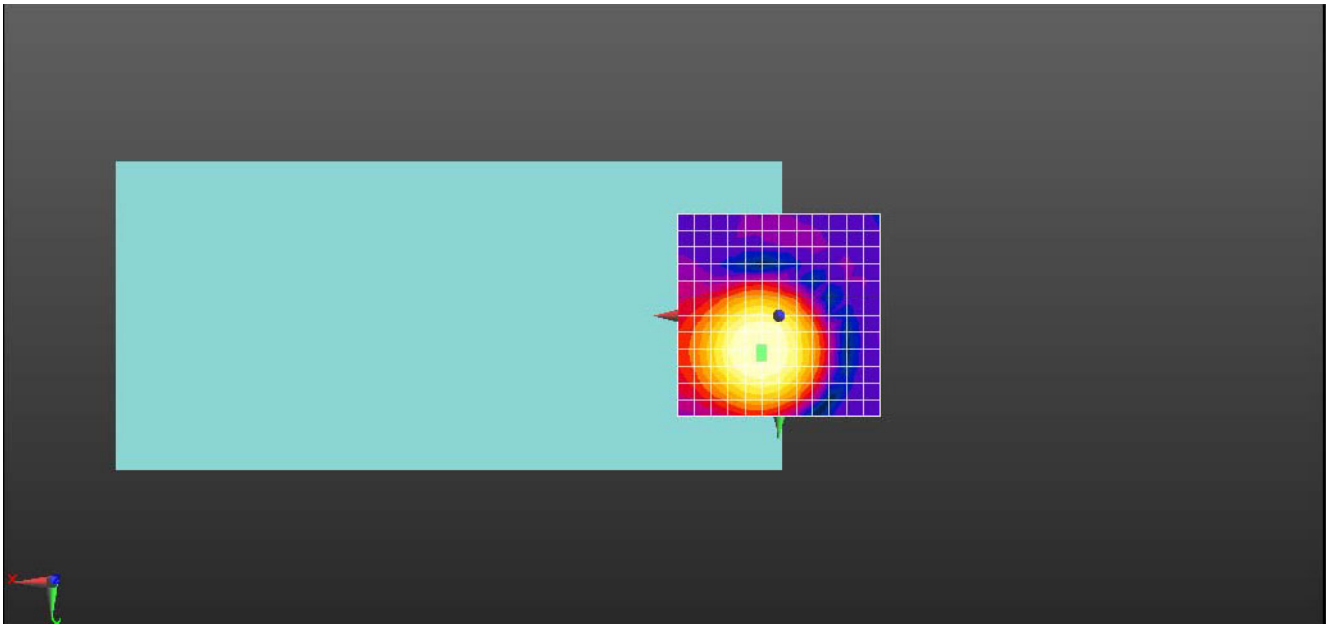
Location: 0, 16.7, 3.7 mmss

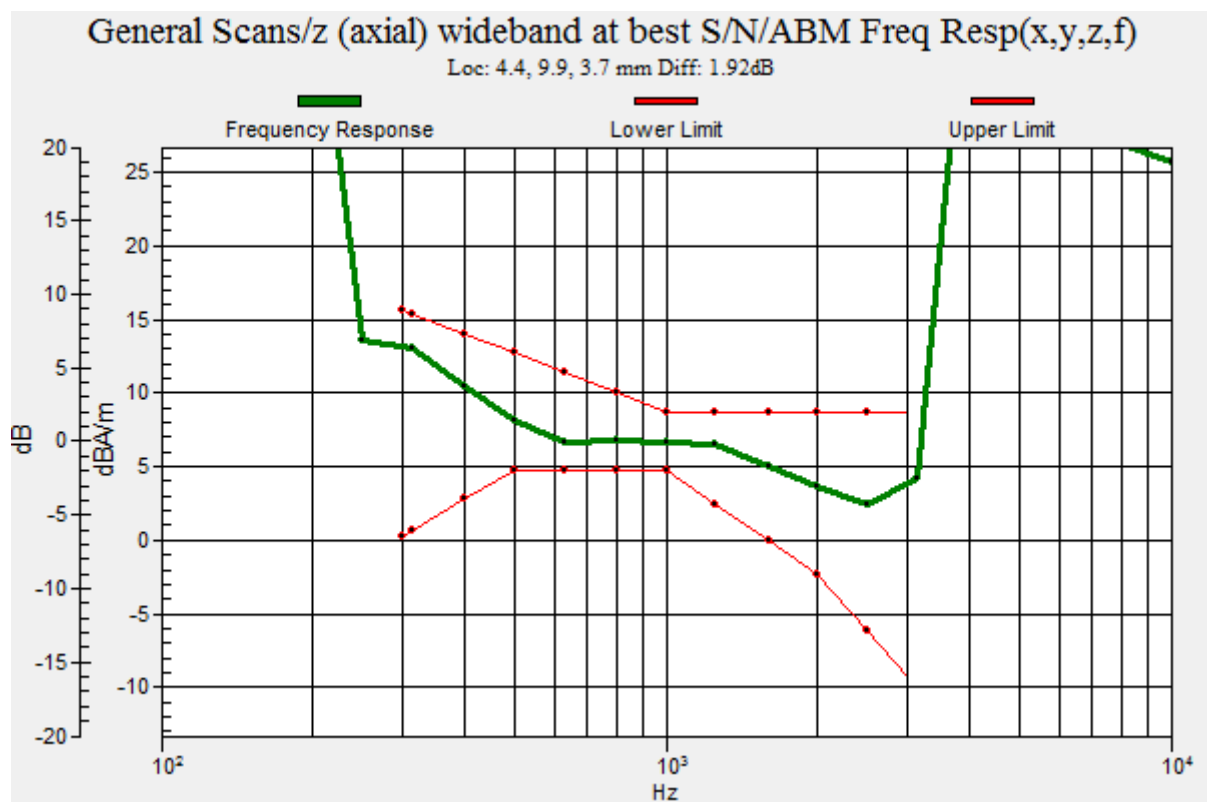


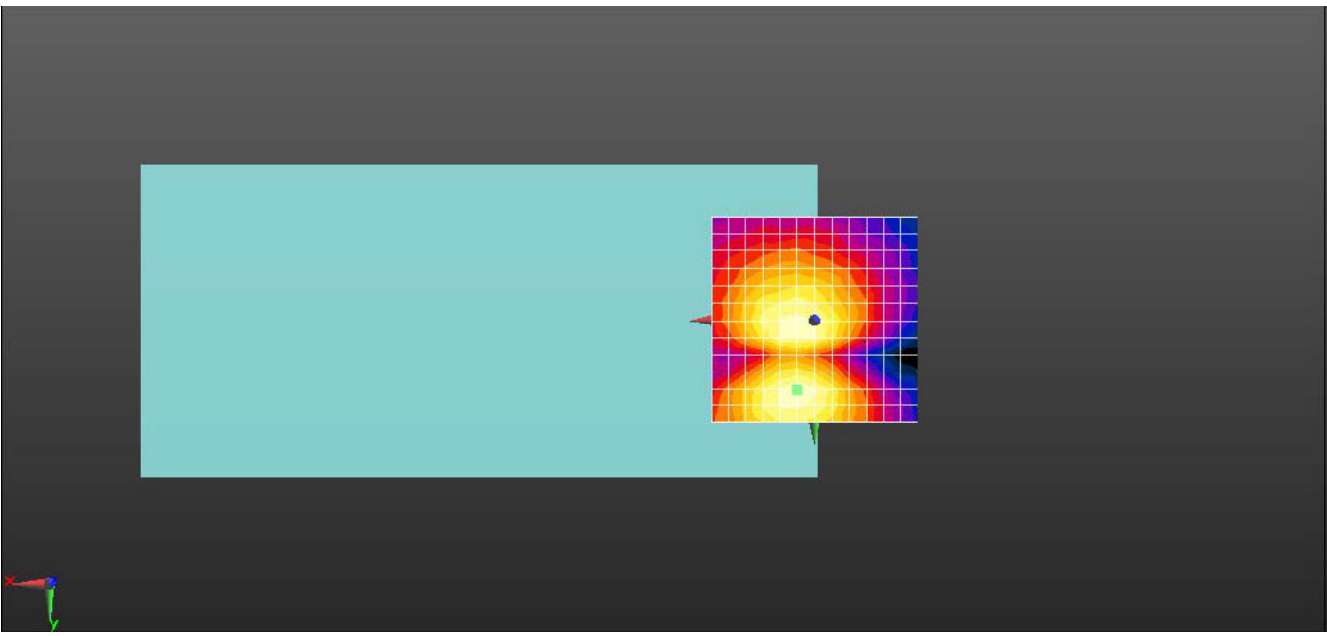
WCDMA BAND4 VoIP	Axial Z & Frequency Resp.
<p>Communication System: UID 10460 - AAA, UMTS-FDD (WCDMA, AMR); Frequency: 1732.6 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 4_T-Coil_HAC AMR 4.75Kbps/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 33.60 dB ABM1 comp = -0.77 dBA/m BWC Factor = 0.16 dB Location: 0, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 4_T-Coil_HAC AMR 4.75Kbps/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: 68.52 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 0.68 dB BWC Factor = 10.79 dB Location: 1.2, 7.4, 3.7 mm</p>	
	

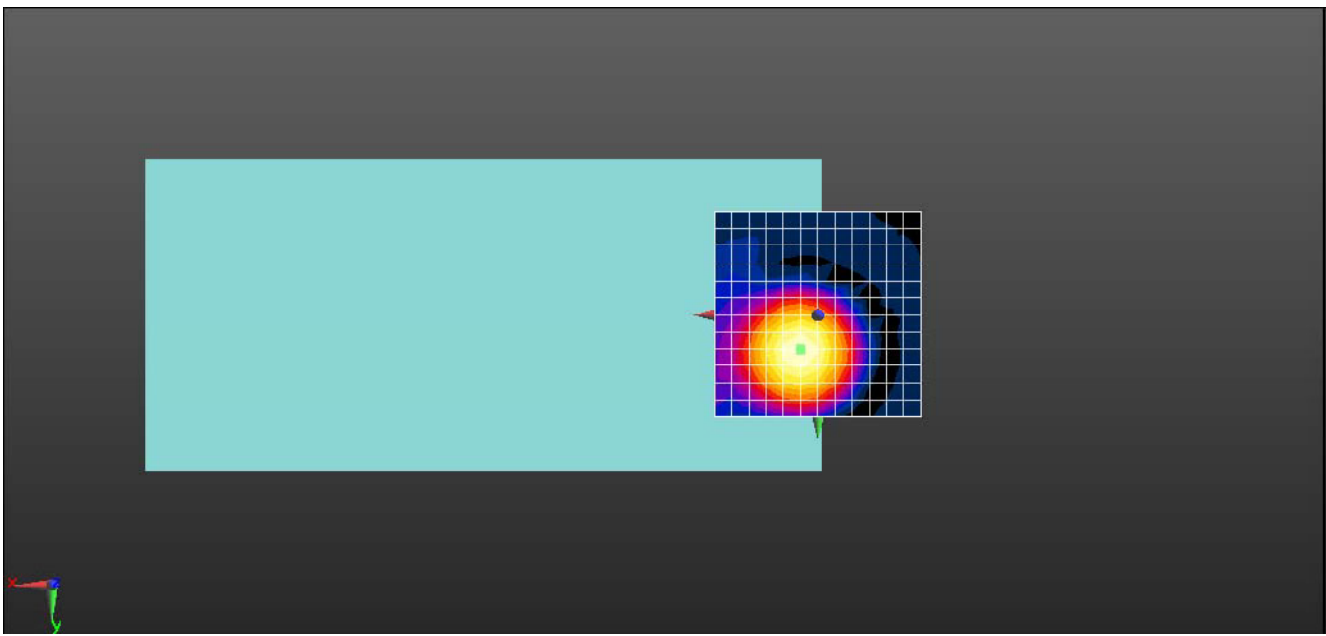


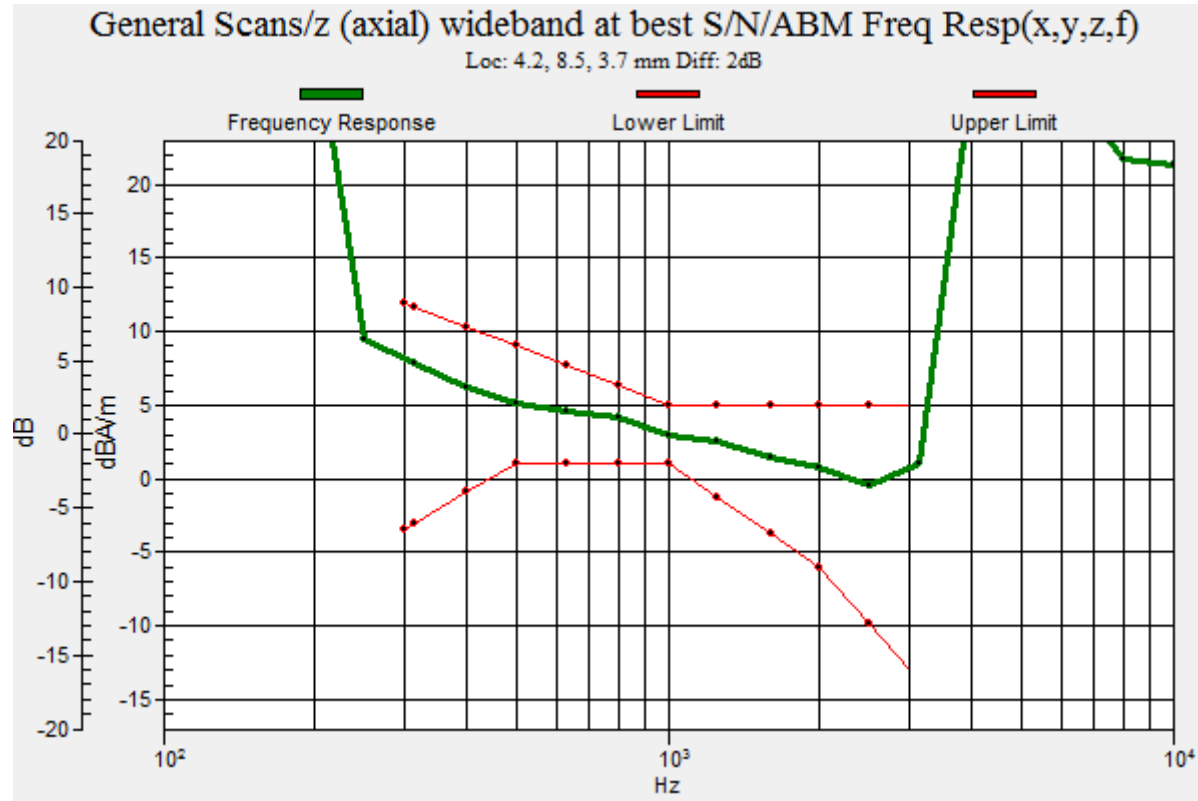
WCDMA BAND5	Axial Y
<p>Communication System: UID 10460 - AAA, UMTS-FDD (WCDMA, AMR);Frequency: 836.6 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p>	
<ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 5_T-Coil_HAC AMR 4.75Kbps/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 35.09 dB ABM1 comp = -4.62 dBA/m BWC Factor = 0.16 dB Location: 4.2, 0, 3.7 mm</p>	
	

WCDMA BAND5	Axial Z & Frequency Resp.
<p>Communication System: UID 10460 - AAA, UMTS-FDD (WCDMA, AMR); Frequency: 836.6 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 5_T-Coil_HAC AMR 4.75Kbps/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 34.99 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 34.14 dB ABM1 comp = 3.46 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WCDMA 5_T-Coil_HAC AMR 4.75Kbps/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: 68.52 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 1.92 dB BWC Factor = 10.79 dB Location: 3.1, 6.5, 3.7 mm</p>	
	



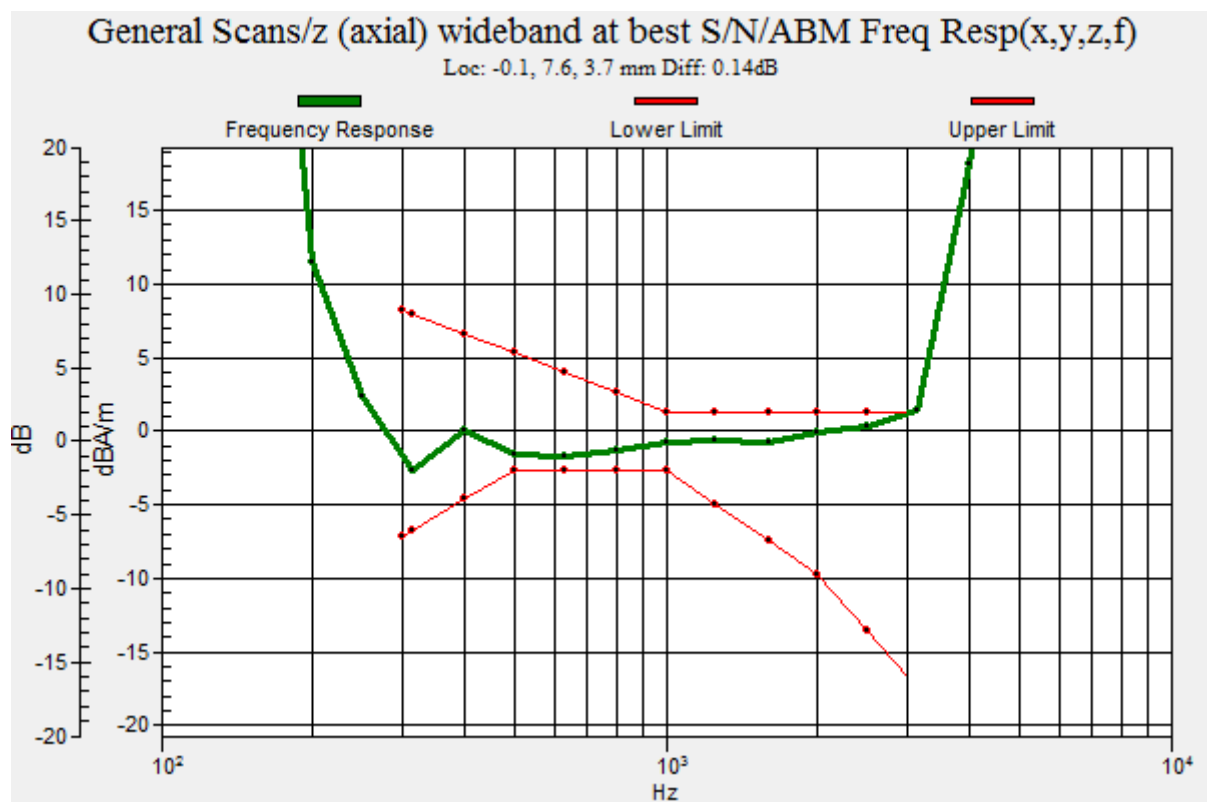
LTE BAND2	Axial Y
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 26.82 dB ABM1 comp = -13.96 dBA/m BWC Factor = 0.15 dB Location: 0, 0, 3.7 mm</p>	
	

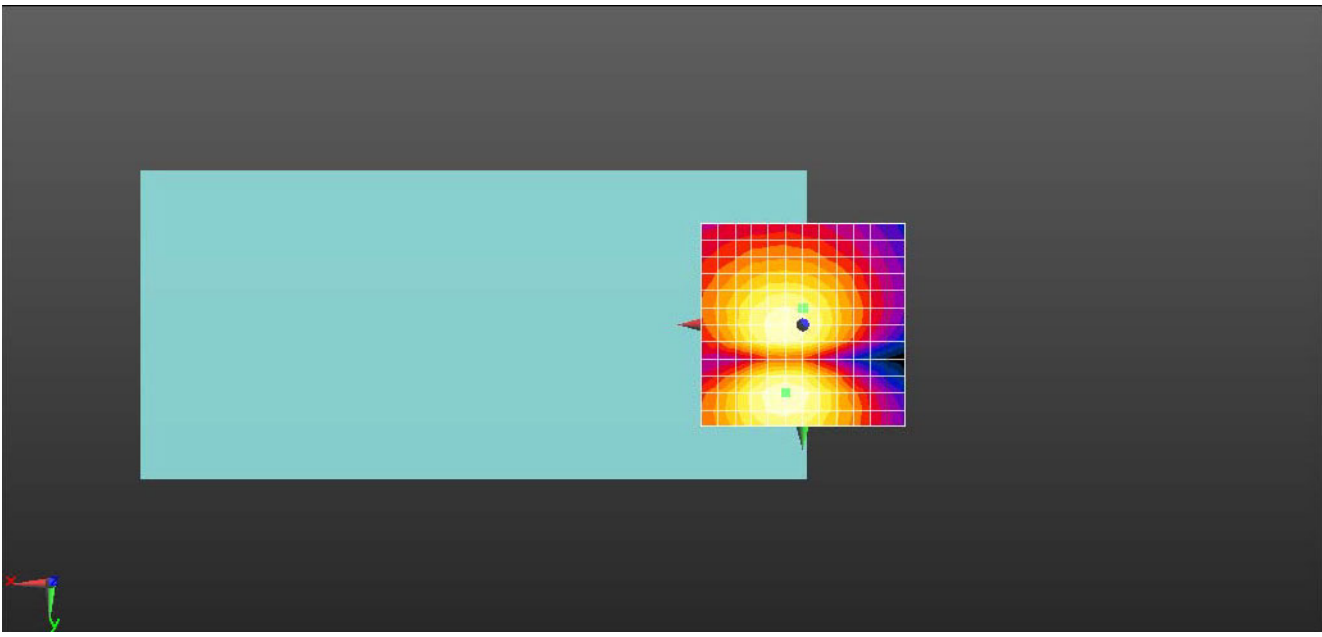
LTE BAND2	Axial Z & Frequency Resp.
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);Frequency: 1880 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 27.67 dB ABM1 comp = -3.24 dBA/m BWC Factor = 0.15 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.80 dB Location: -17.8, -11.9, 3.7 mm</p>	
	

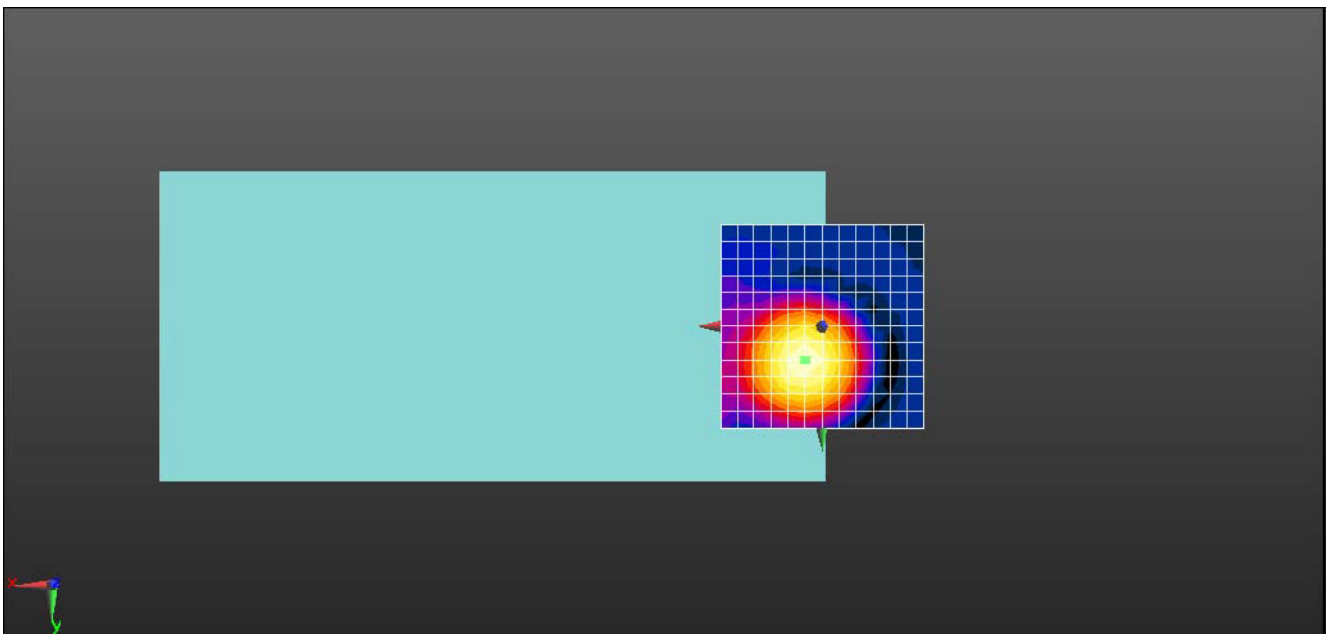


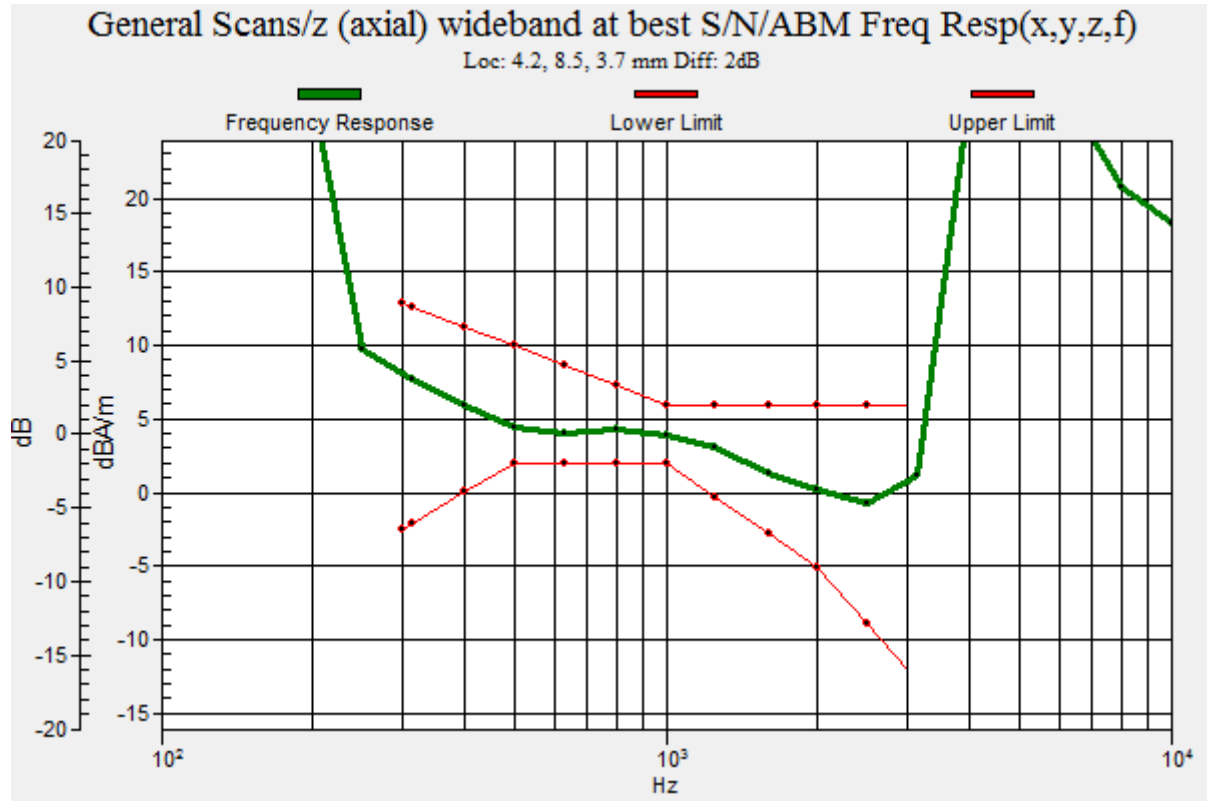
LTE BAND2 VoIP	Axial Y
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1880 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 30.77 dB ABM1 comp = -7.92 dBA/m BWC Factor = 0.16 dB Location: 0, 0, 3.7 mm</p>	

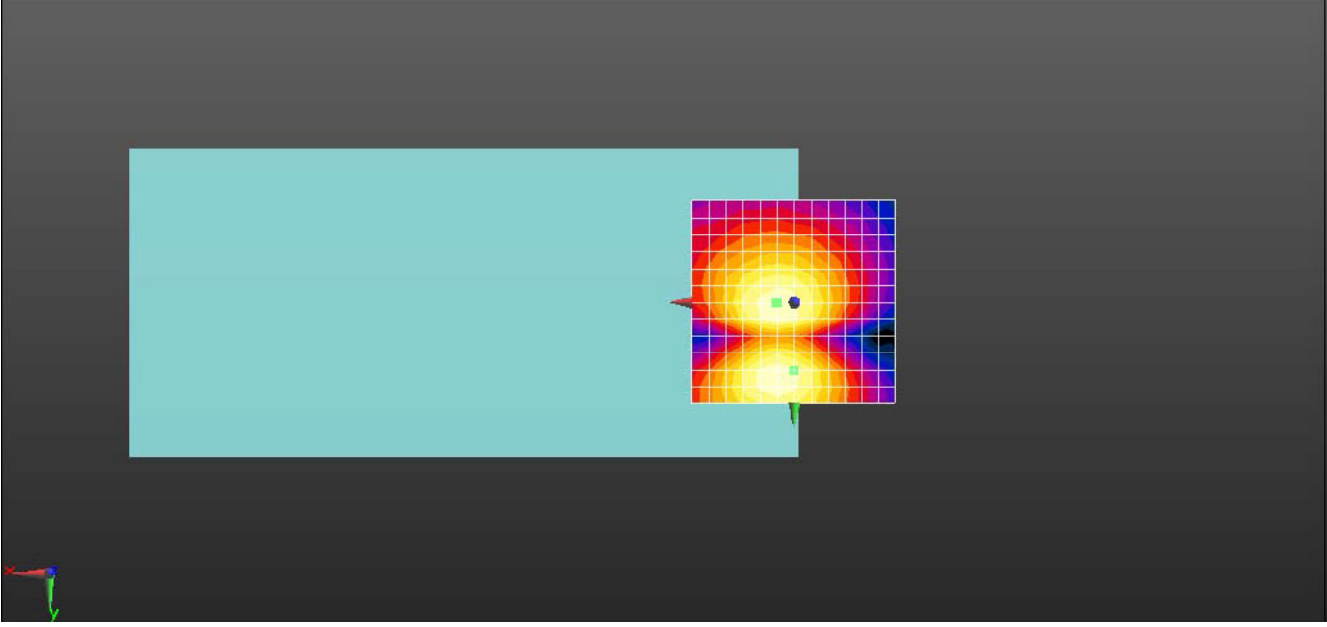
LTE BAND2 VoIP	Axial Z & Frequency Resp.
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);Frequency: 1880 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 31.53 dB ABM1 comp = -0.24 dBA/m BWC Factor = 0.16 dB Location: 0, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 0.14 dB BWC Factor = 10.80 dB Location: -17.8, -11.9, 3.7 mm</p>	



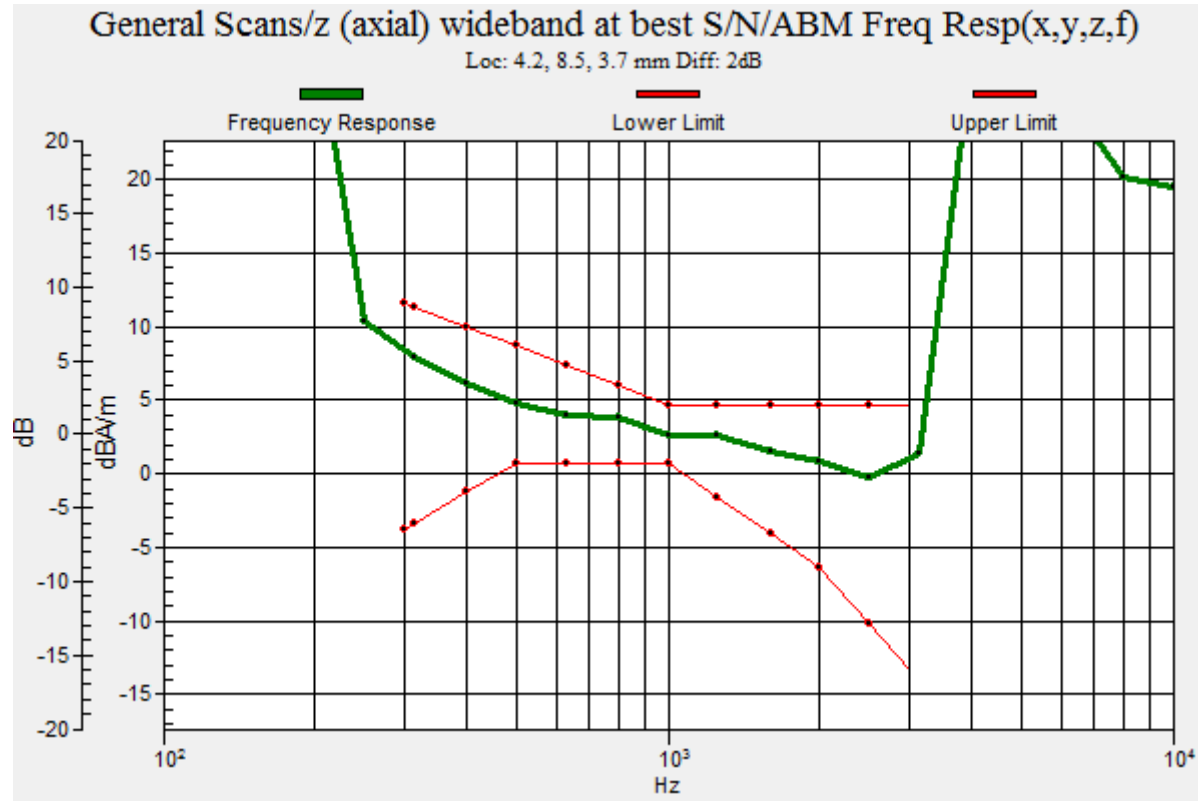
LTE BAND4	Axial Y
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1732.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band4_T-Coil_HAC/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 27.11 dB ABM1 comp = -15.11 dBA/m BWC Factor = 0.16 dB Location: 0, -4.2, 3.7 mm</p>	
	

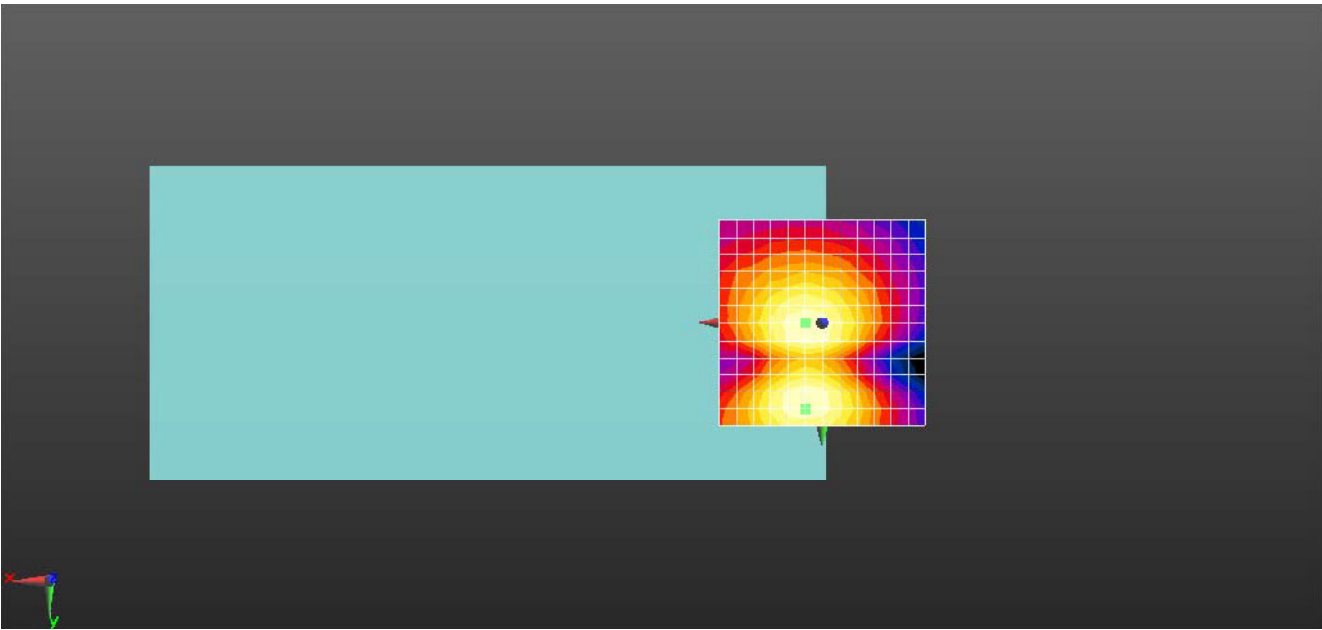
LTE BAND4	Axial Z & Frequency Resp.
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);Frequency: 1732.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band4_T-Coil_HAC/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 29.16 dB ABM1 comp = -3.11 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band4_T-Coil_HAC/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.78 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.78 dB Location: 0.7, 3.2, 3.7 mm</p>	
	

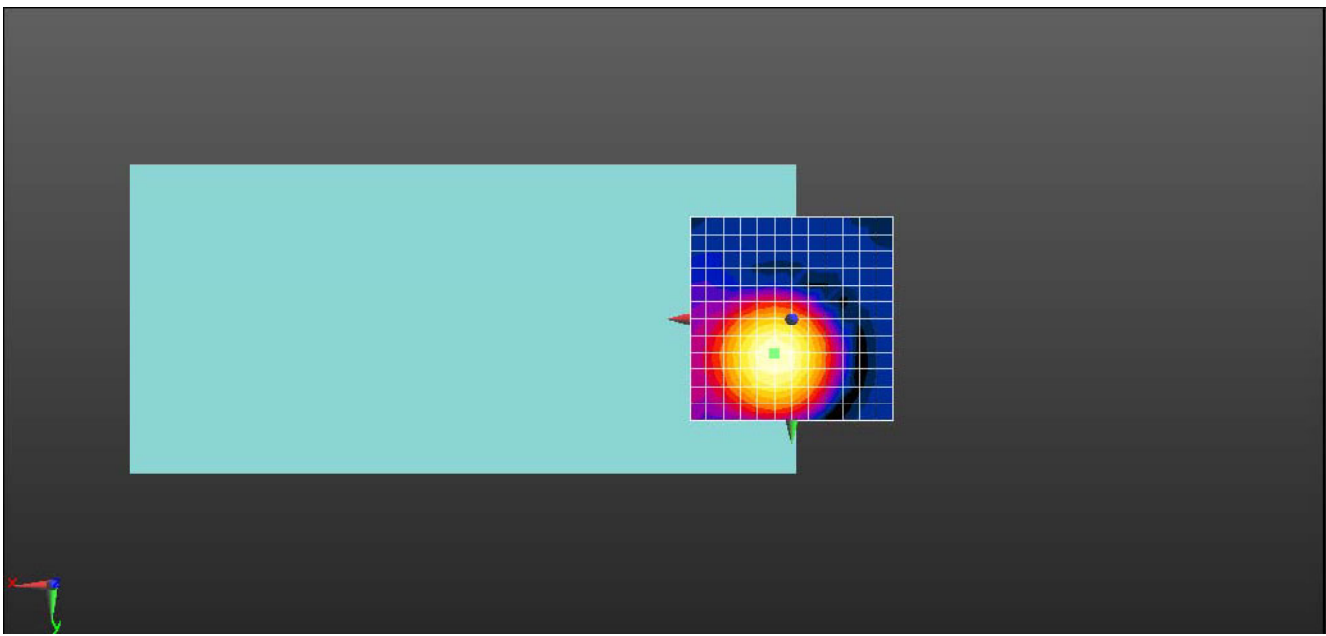


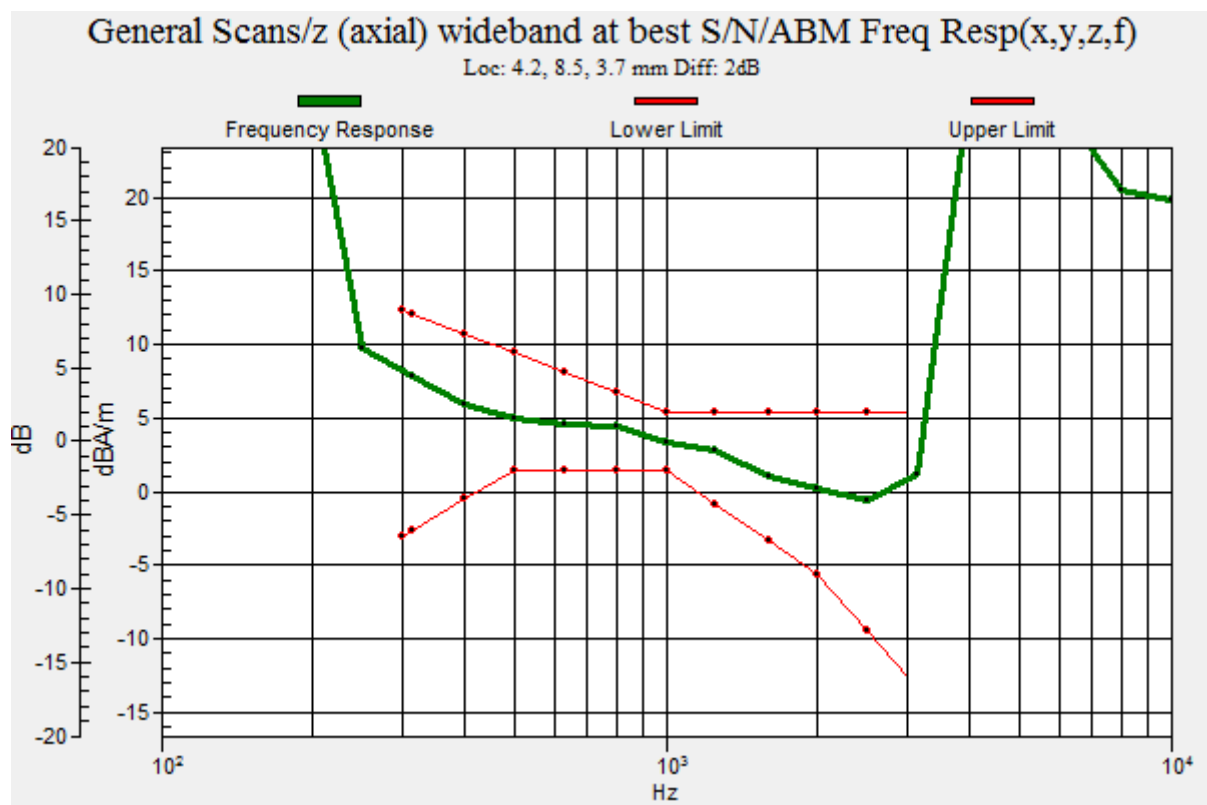
LTE BAND5	Axial Y
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 836.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band5_T-Coil_HAC/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 32.07 dB ABM1 comp = -13.07 dBA/m BWC Factor = 0.16 dB Location: 0, 16.7, 3.7 mm</p>	
	

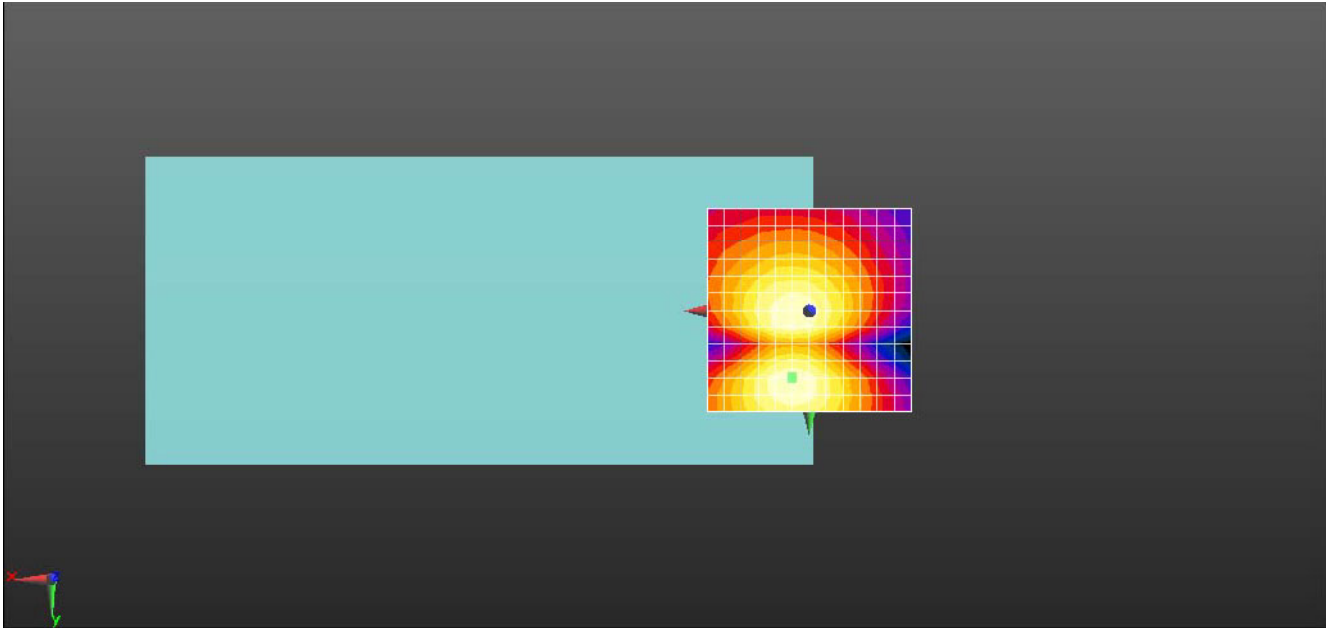
LTE BAND5	Axial Z & Frequency Resp.
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 836.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band5_T-Coil_HAC/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.55 dB ABM1 comp = -3.36 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band5_T-Coil_HAC/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.78 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.78 dB Location: 0.9, 4, 3.7 mm</p>	

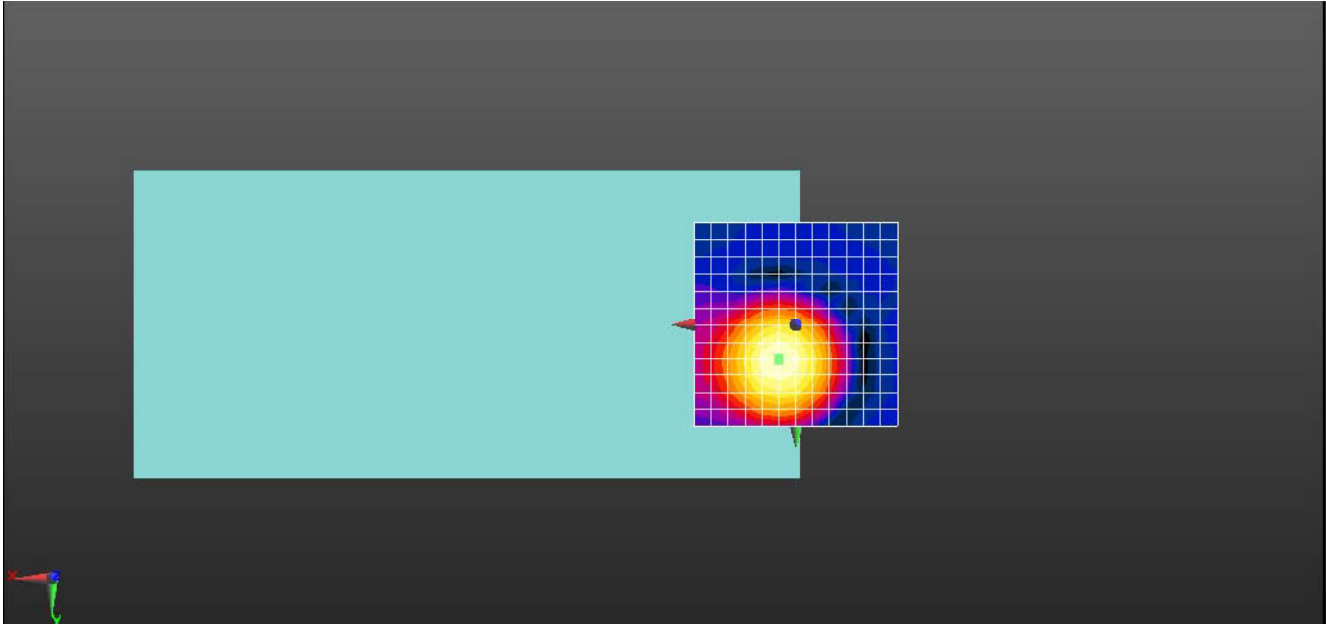


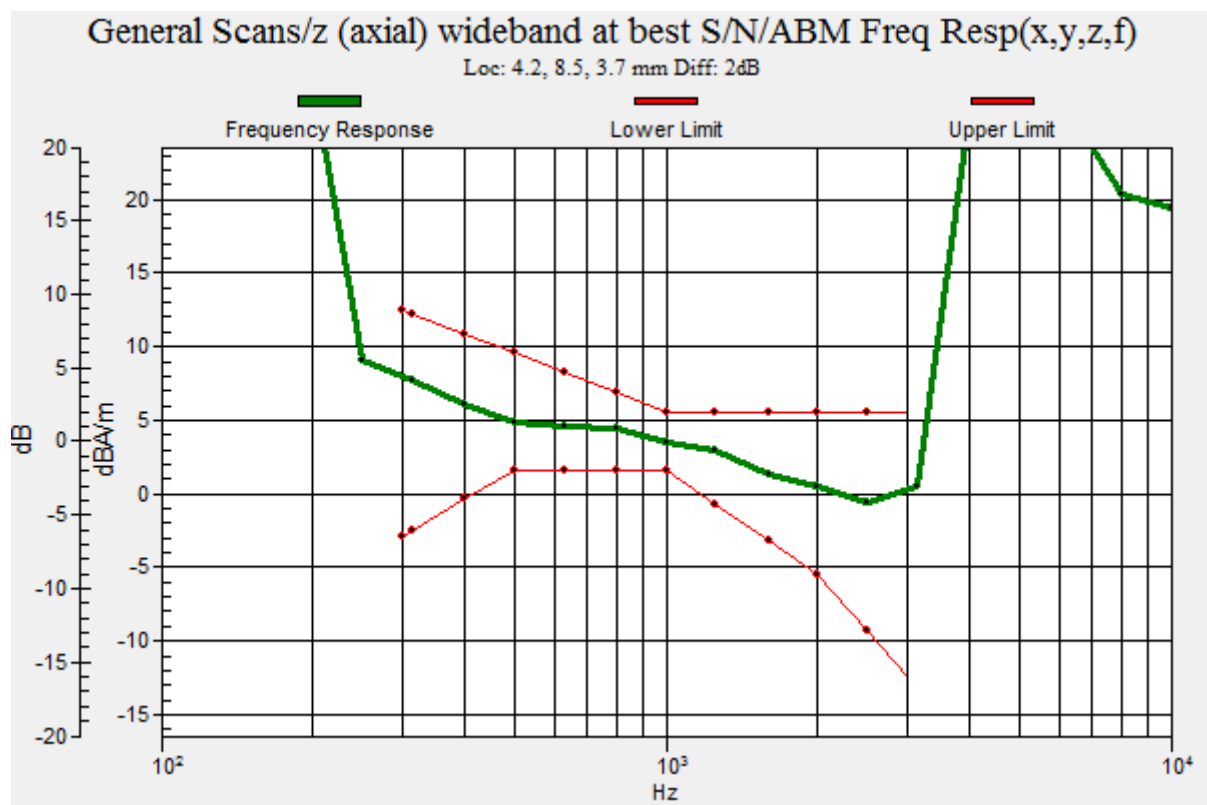
LTE BAND7	Axial Y
<p>Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2593 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 30.59 dB ABM1 comp = -12.62 dBA/m BWC Factor = 0.16 dB Location: 4.2, 20.8, 3.7 mm</p>	
	

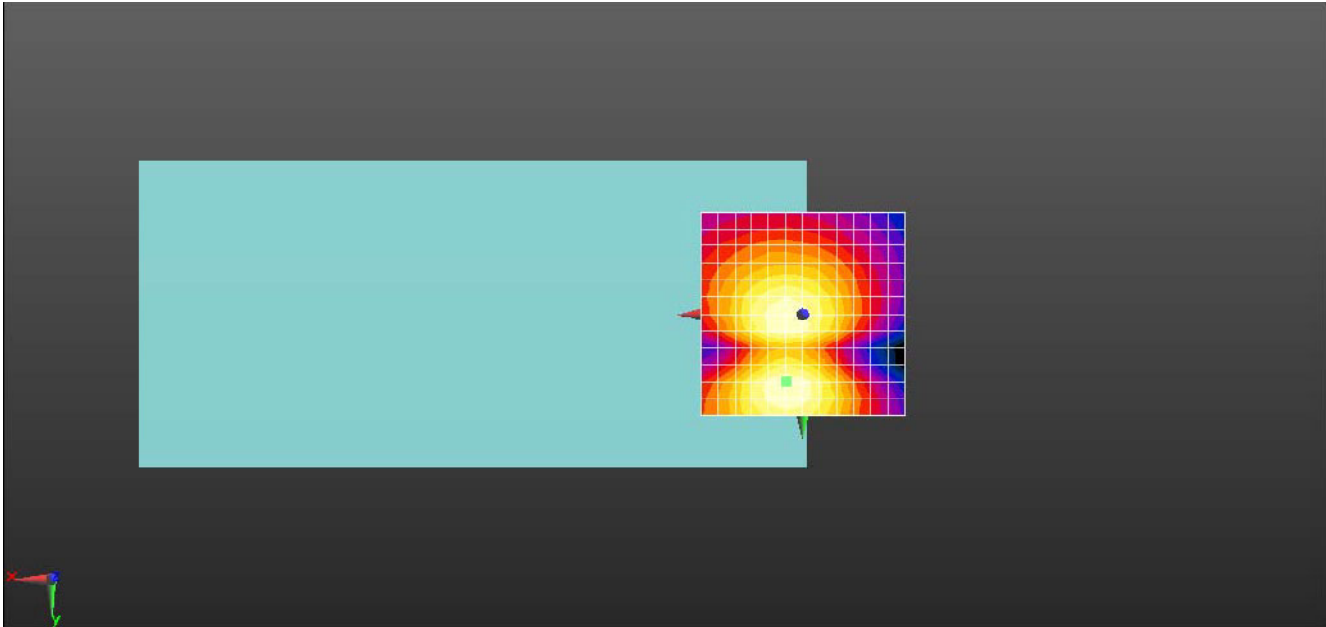
LTE BAND7	Axial Z & Frequency Resp.
<p>Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);Frequency: 2593 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.64 dB ABM1 comp = -3.45 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.79 dB Location: 4.3, 2.8, 3.7 mm</p>	
	

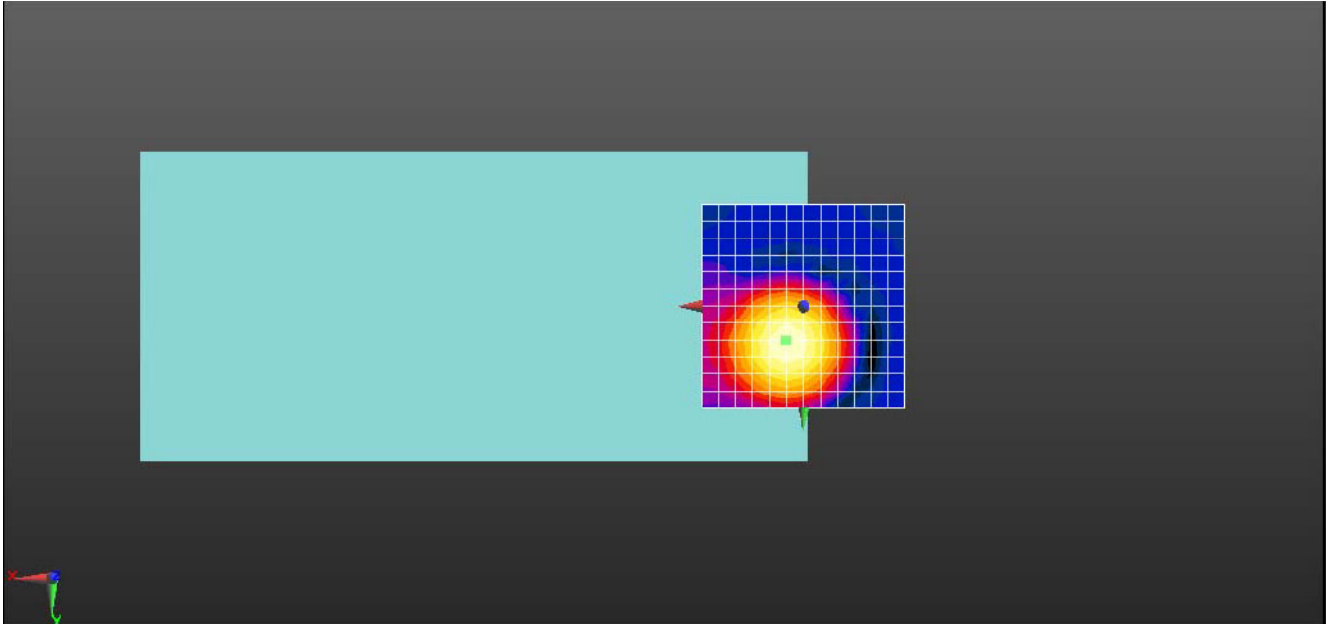


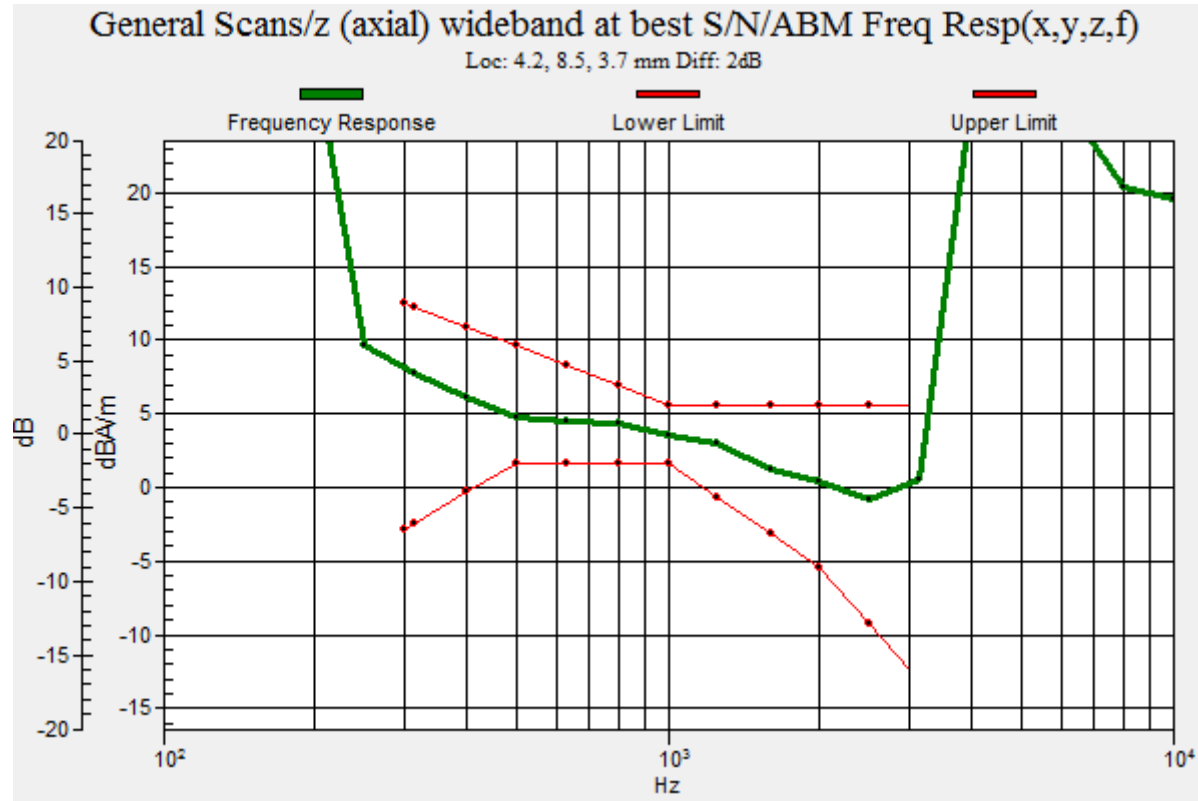
LTE BAND12	Axial Y
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 707.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 35.13 dB ABM1 comp = -9.10 dBA/m BWC Factor = 0.16 dB Location: 4.2, 16.7, 3.7 mm</p>	
	

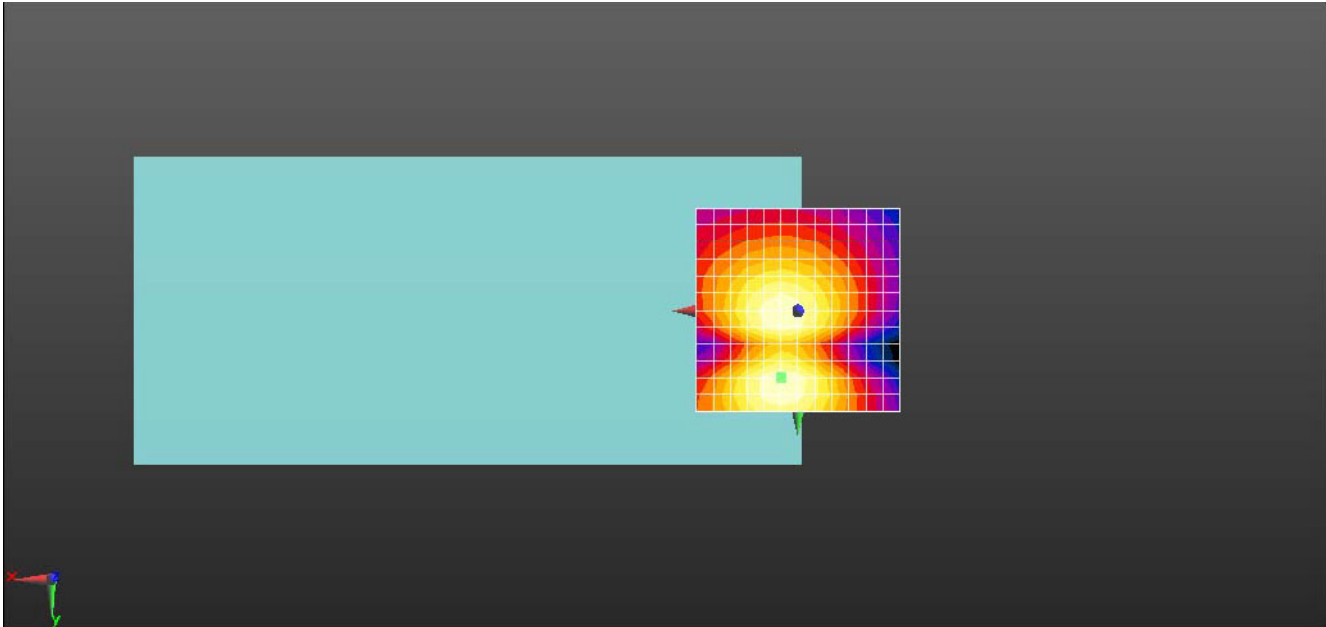
LTE BAND12	Axial Z & Frequency Resp.
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 707.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.18 dB ABM1 comp = -3.60 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.79 dB Location: 0.4, 4, 3.7 mm</p>	
	

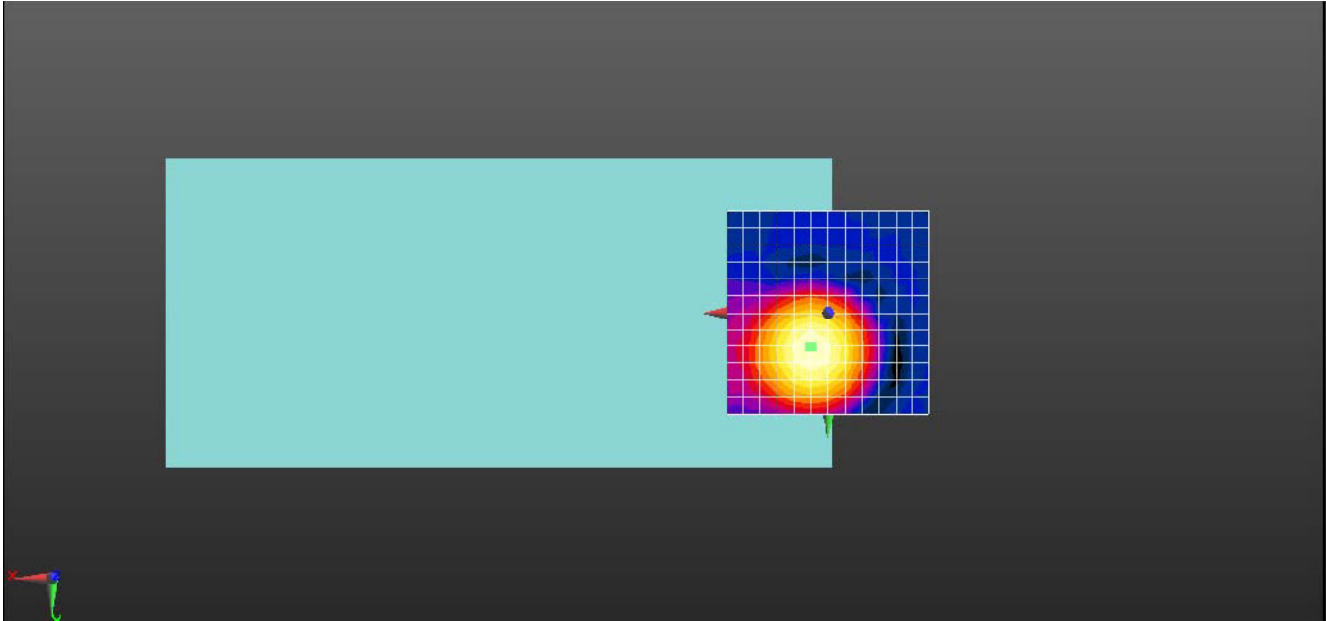


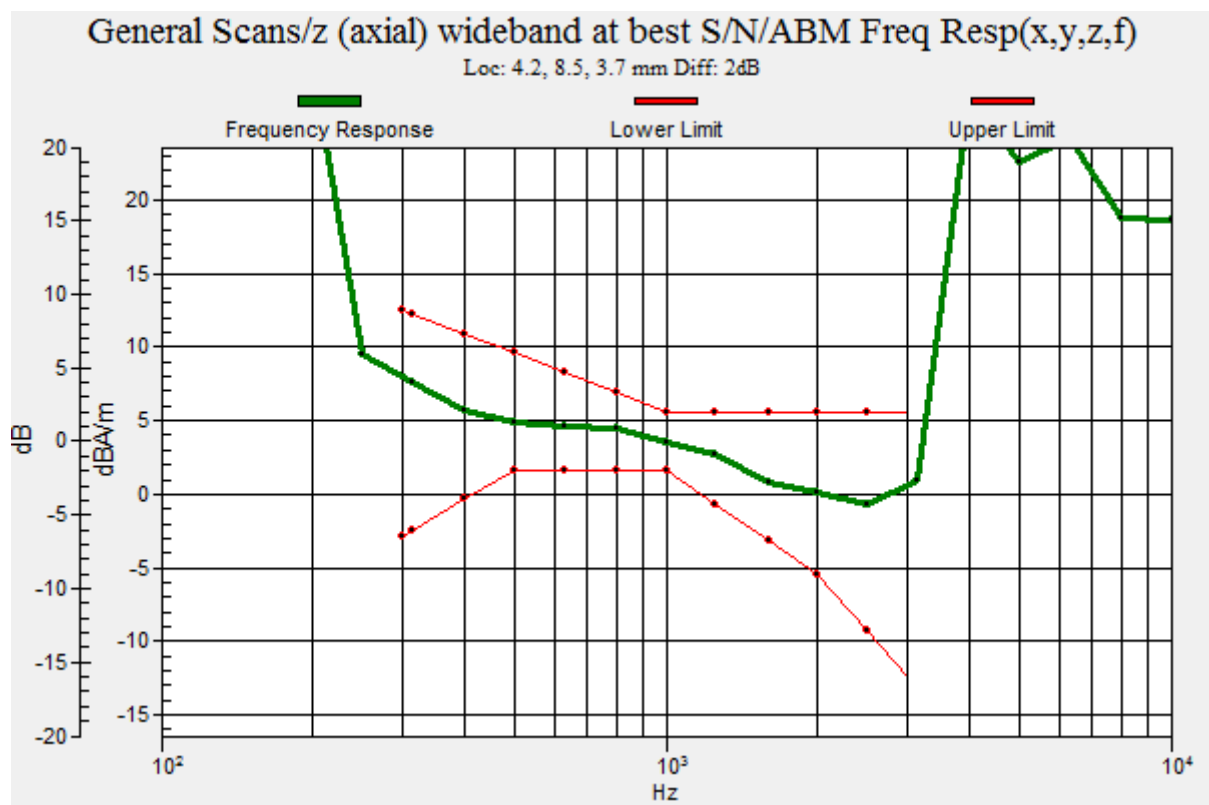
LTE BAND13	Axial Y
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 782 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 31.52 dB ABM1 comp = -11.98 dBA/m BWC Factor = 0.16 dB Location: 4.2, 16.7, 3.7 mm</p>	
	

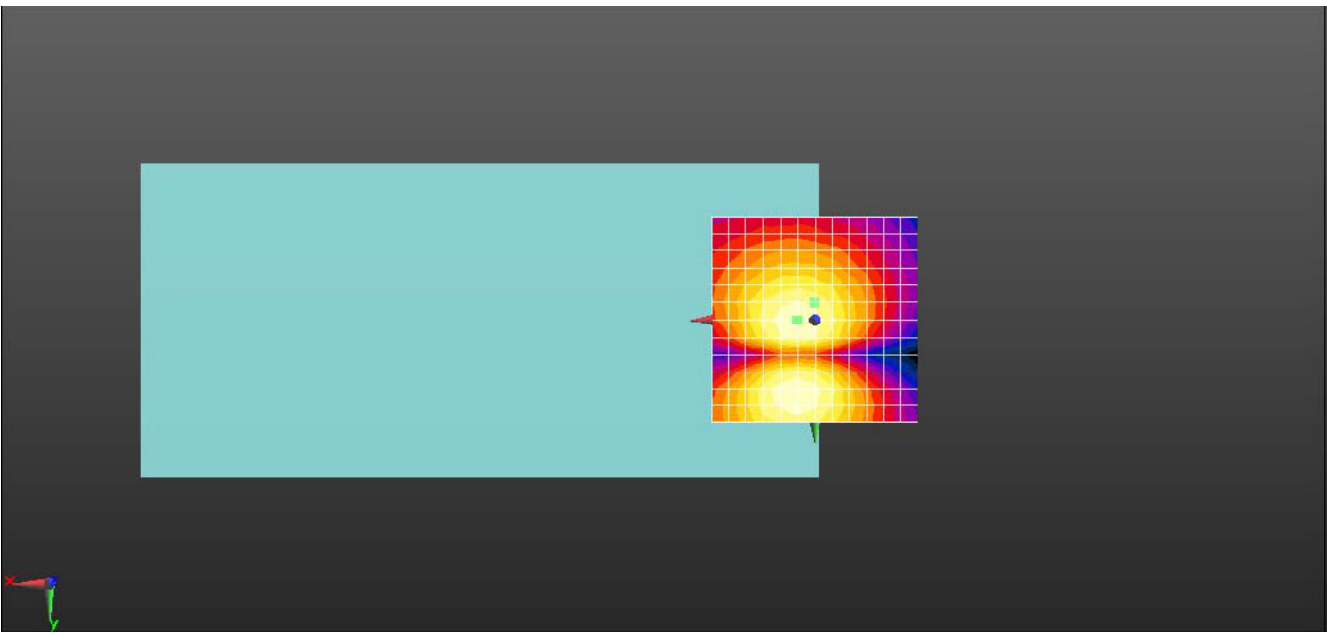
LTE BAND13	Axial Z & Frequency Resp.
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 782 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 29.80 dB ABM1 comp = -3.46 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.79 dB Location: 0.4, 4, 3.7 mm</p>	
	

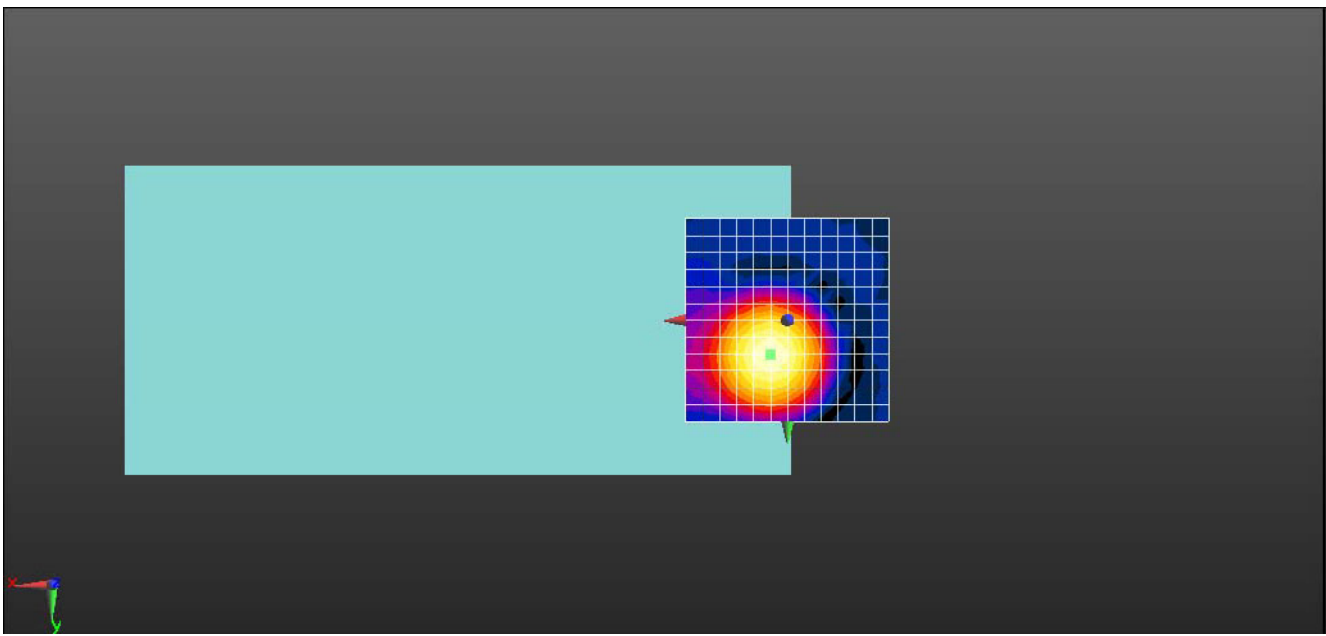


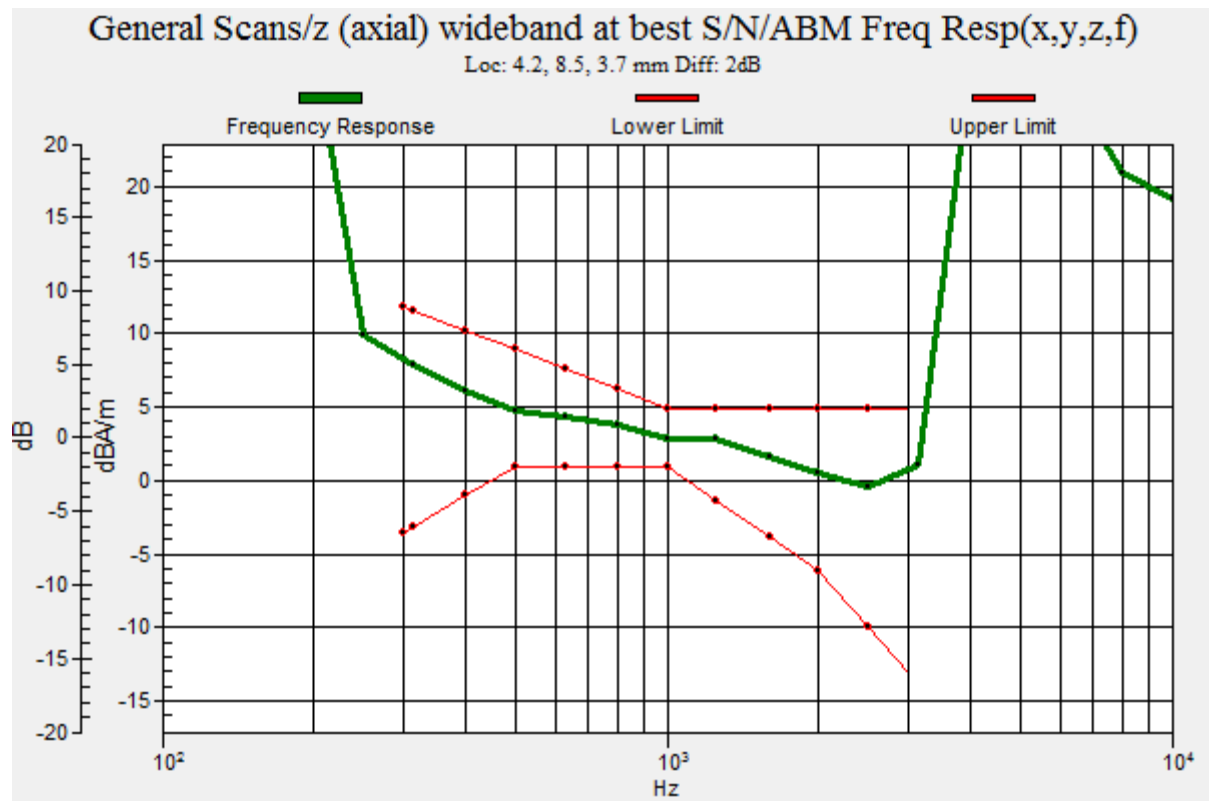
LTE BAND17	Axial Y
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 710 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 32.87 dB ABM1 comp = -8.91 dBA/m BWC Factor = 0.16 dB Location: 4.2, 16.7, 3.7 mm</p>	
	

LTE BAND17	Axial Z & Frequency Resp.
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 710 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.68 dB ABM1 comp = -3.73 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band12_T-Coil_HAC/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.79 dB Location: 0.4, 4, 3.7 mm</p>	
	

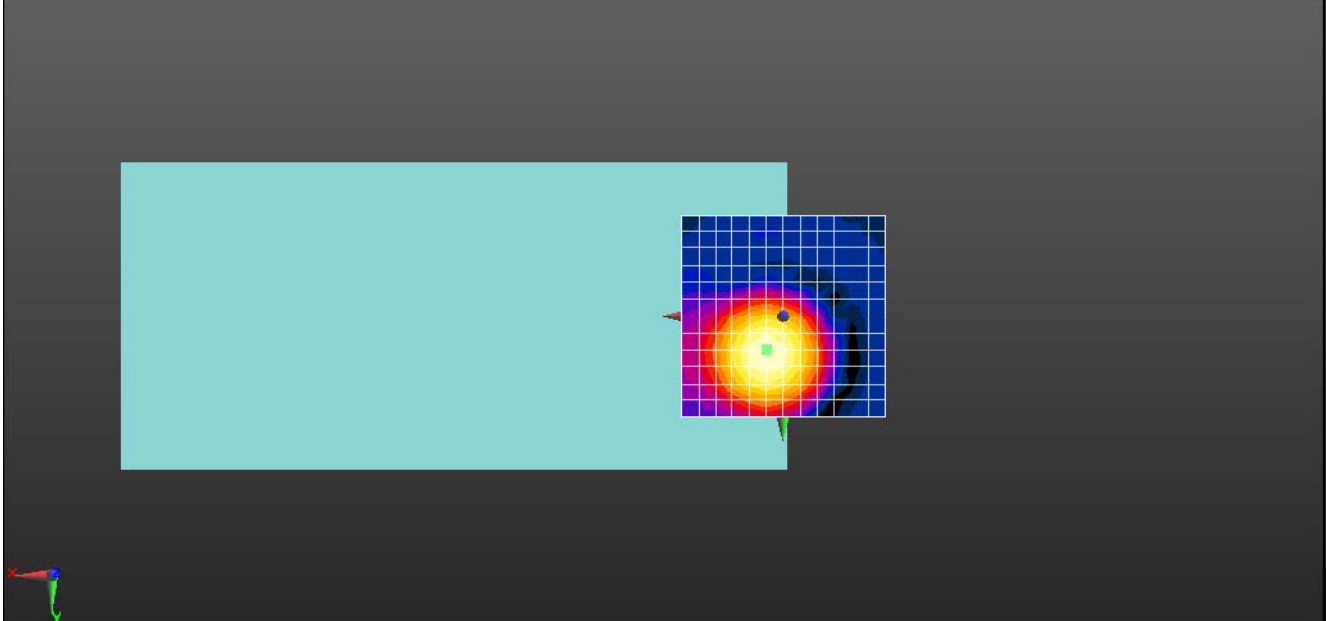


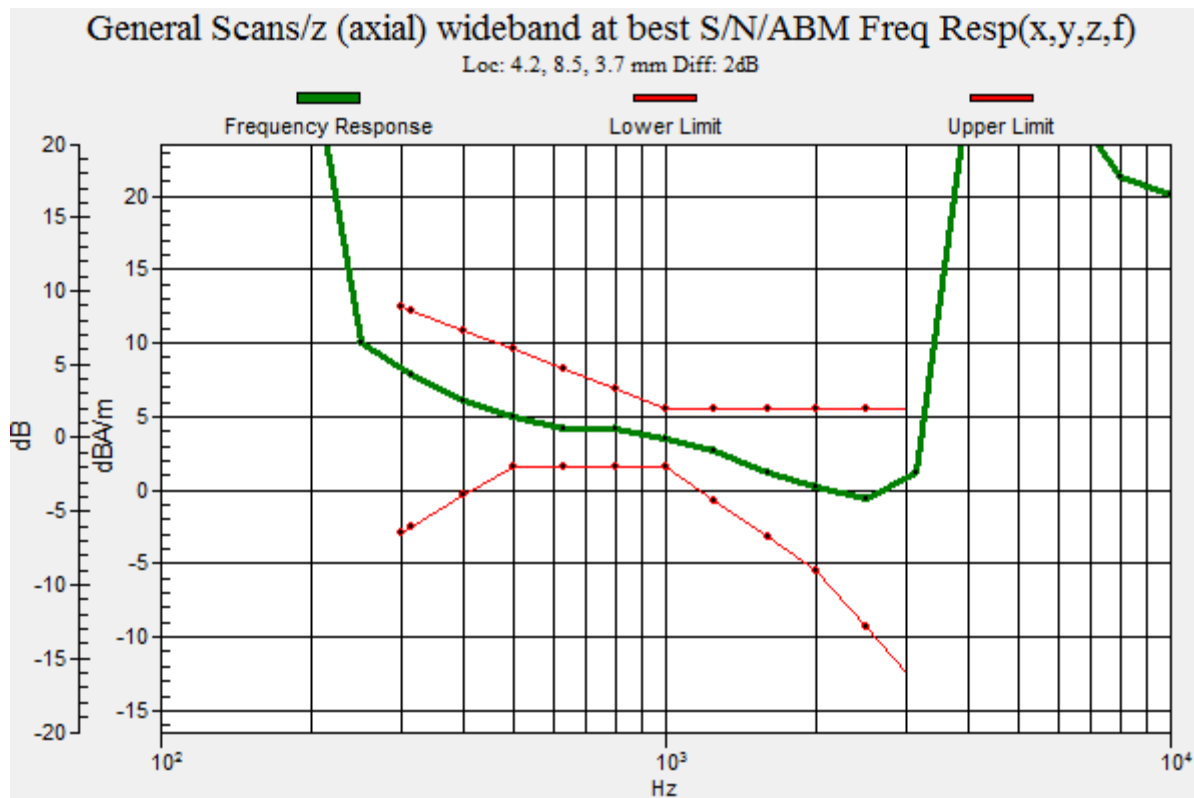
LTE BAND25	Axial Y
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 1882.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 29.10 dB ABM1 comp = -15.17 dBA/m BWC Factor = 0.16 dB Location: 0, -4.2, 3.7 mm</p>	
	

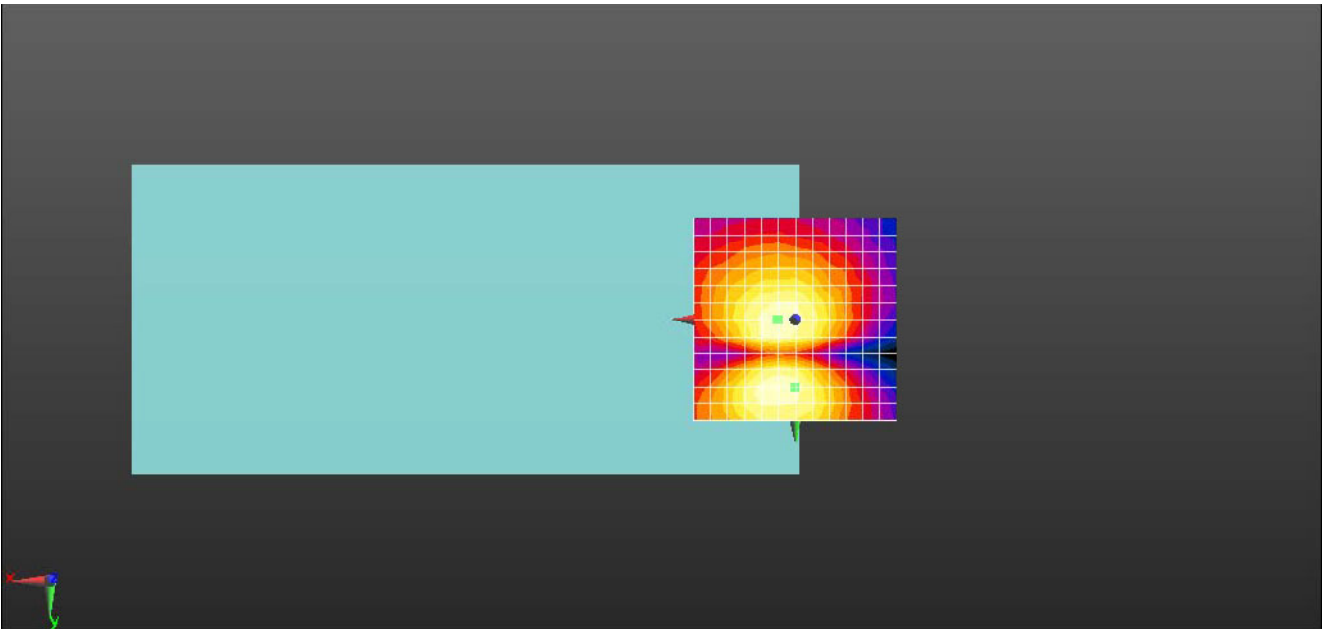
LTE BAND25	Axial Z & Frequency Resp.
<p>Communication System: UID 10169 - CAB, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK);Frequency: 1882.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 30.03 dB ABM1 comp = -3.35 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band2_T-Coil_HAC 2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.80 dB Location: -17.8, -11.9, 3.7 mm</p>	
	



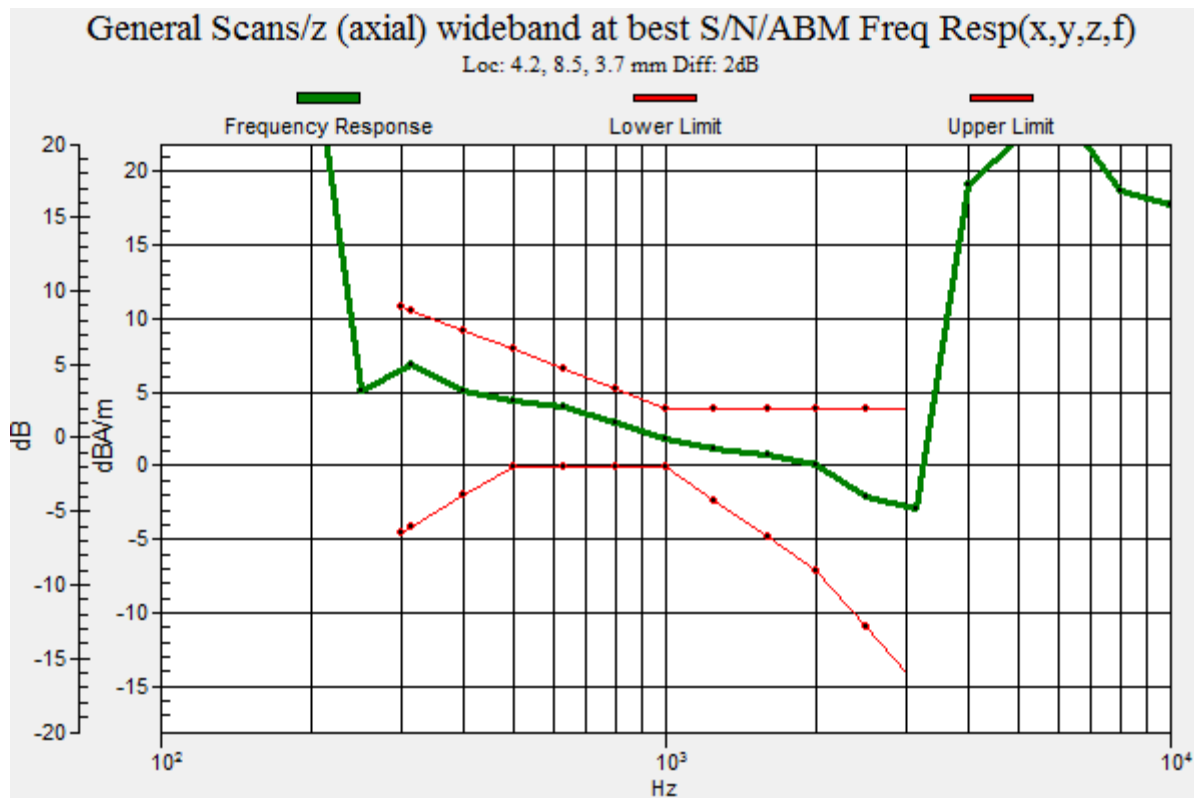
LTE BAND26	Axial Y
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 831.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band5_T-Coil_HAC/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 29.03 dB ABM1 comp = -12.15 dBA/m BWC Factor = 0.16 dB Location: 4.2, 16.7, 3.7 mm</p>	

LTE BAND26	Axial Z & Frequency Resp.
<p>Communication System: UID 10175 - CAC, LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK); Frequency: 831.5 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band5_T-Coil_HAC/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.41 dB ABM1 comp = -3.65 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band5_T-Coil_HAC/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.78 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.78 dB Location: 0.9, 4, 3.7 mm</p>	
	

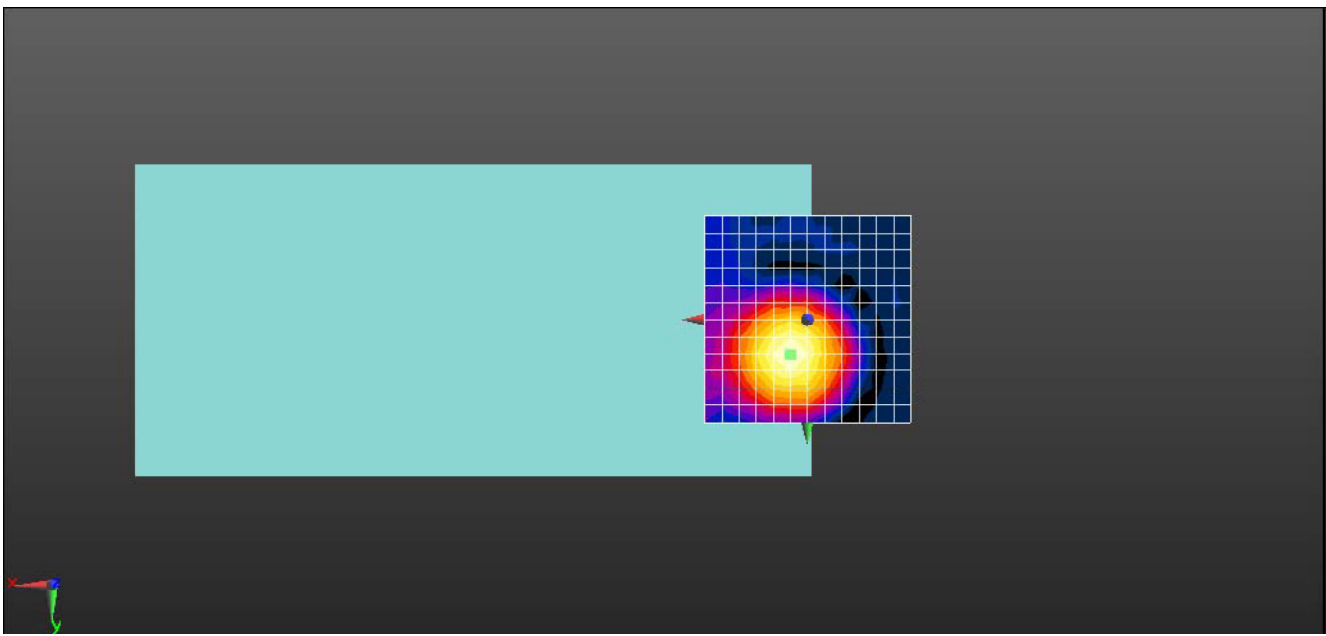


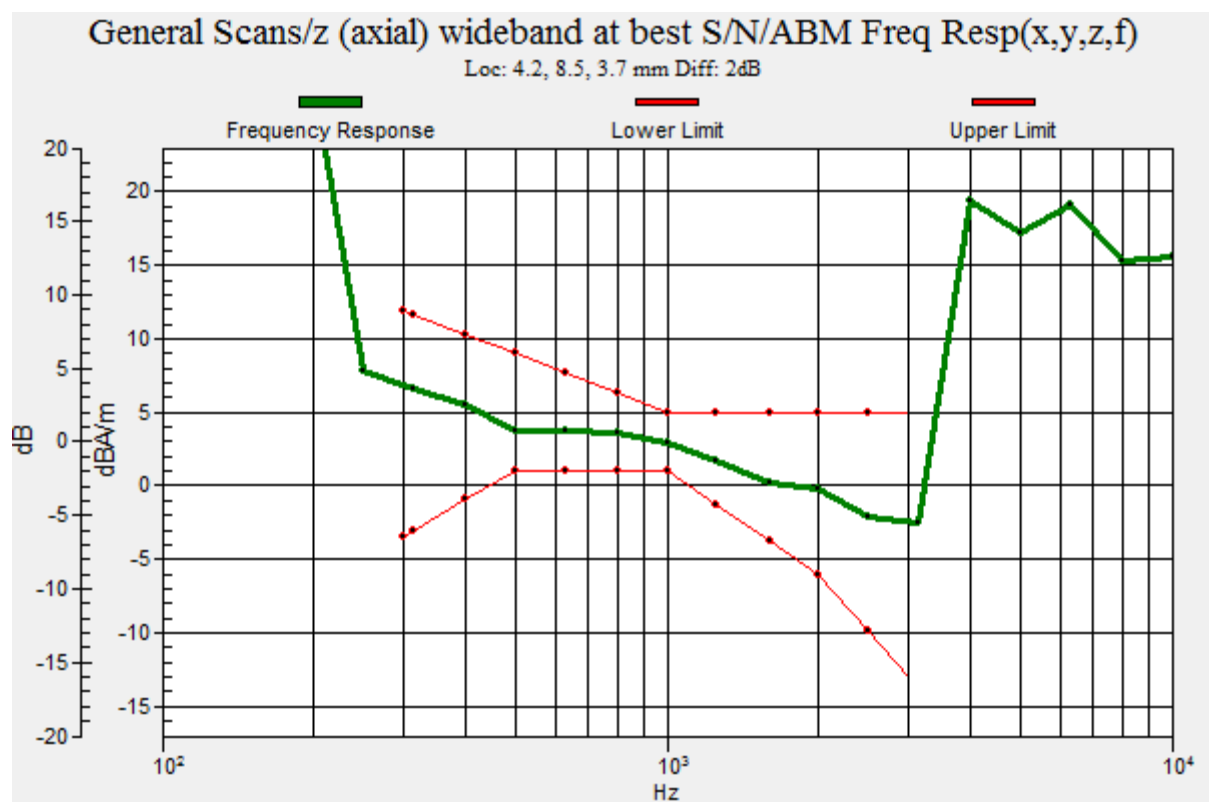
LTE BAND38	Axial Y
<p>Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2595 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 21.96 dB ABM1 comp = -13.10 dBA/m BWC Factor = 0.16 dB Location: 0, 16.7, 3.7 mm</p>	
	

LTE BAND38	Axial Z & Frequency Resp.
<p>Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);Frequency: 2595 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 25.37 dB ABM1 comp = -6.19 dBA/m BWC Factor = 0.16 dB Location: 0, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.79 dB Location: 4.3, 2.8, 3.7 mm</p>	



LTE BAND41	Axial Y
<p>Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2593 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 21.41 dB ABM1 comp = -13.87 dBA/m BWC Factor = 0.16 dB Location: 0, 0, 3.7 mm</p>	

LTE BAND41	Axial Z & Frequency Resp.
<p>Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);Frequency: 2593 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 23.95 dB ABM1 comp = -4.48 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.79 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.79 dB Location: 4.3, 2.8, 3.7 mm</p>	
	



LTE BAND41 VoIP	Axial Y
<p>Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK); Frequency: 2593 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.97 dB ABM1 comp = -6.83 dBA/m BWC Factor = 0.16 dB Location: 0, 0, 3.7 mm</p>	

LTE BAND41 VoIP

Axial Z & Frequency Resp.

Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);Frequency: 2593 MHz;
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: TCoil Section

DASY Configuration:

- Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn720; Calibrated: 2020/9/30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/z (axial) 4.2mm 50 x 50/ABM

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

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

Output Gain: 42

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.15 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 31.70 dB

ABM1 comp = 1.87 dBA/m

BWC Factor = 0.16 dB

Location: 4.2, 8.3, 3.7 mm

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band41_T-Coil_HAC class2/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: 82.26

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.79 dB

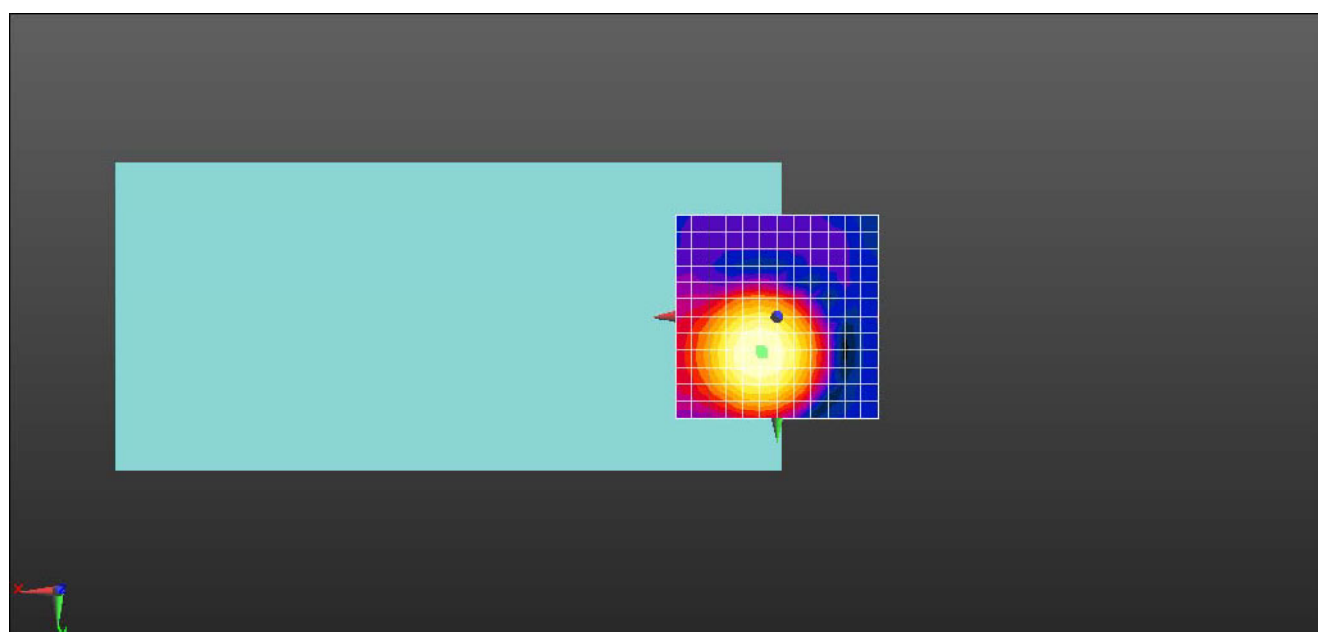
Device Reference Point: 0, 0, -6.3 mm

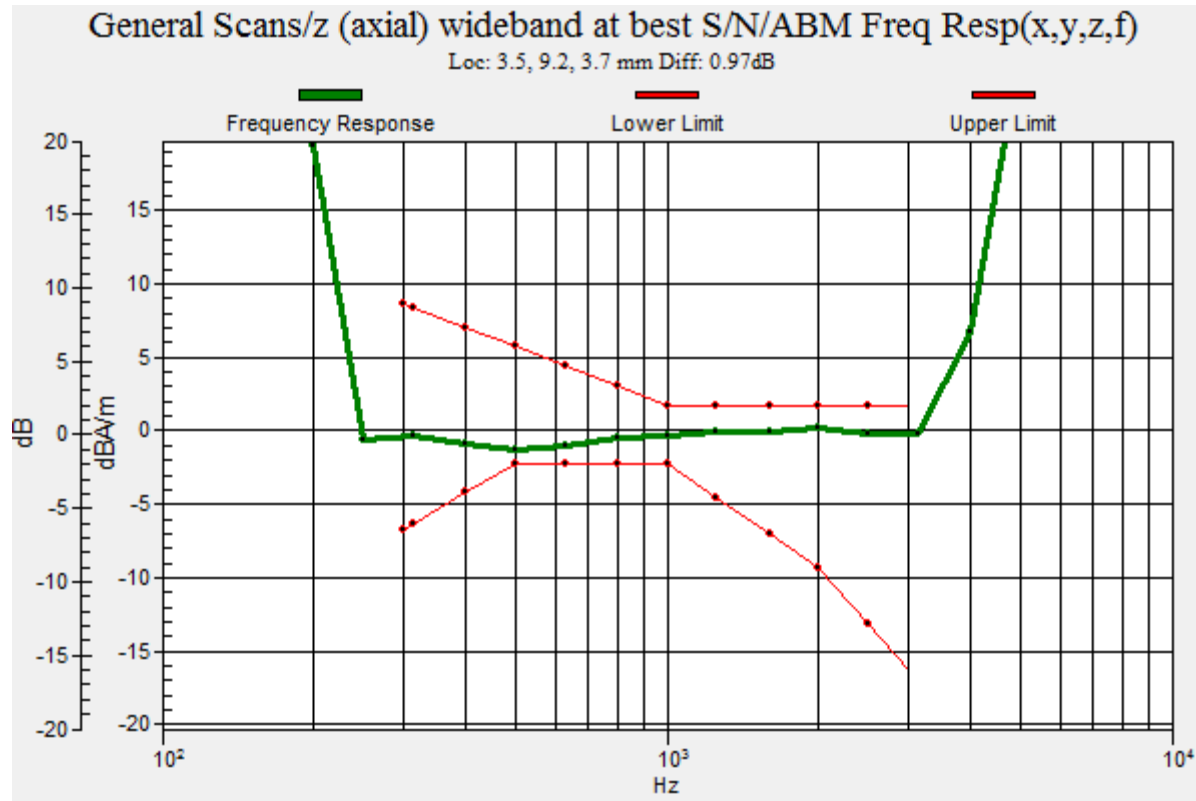
Cursor:

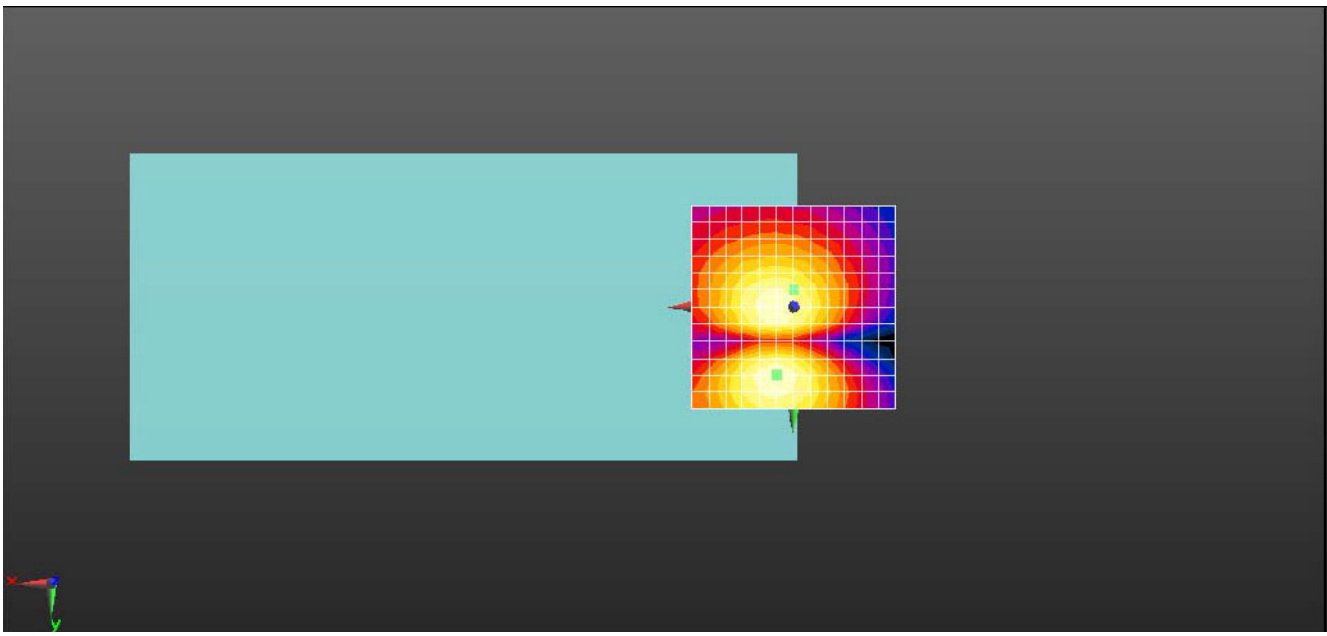
Diff = 0.97s dB

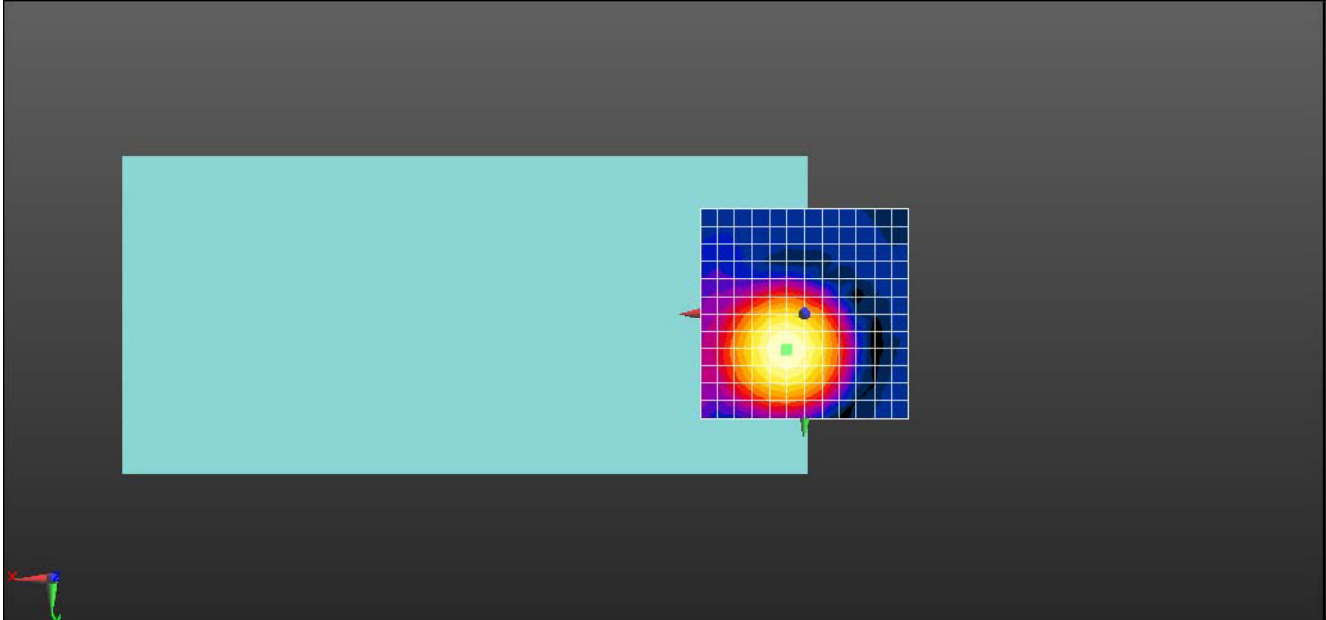
BWC Factor = 10.79 dB

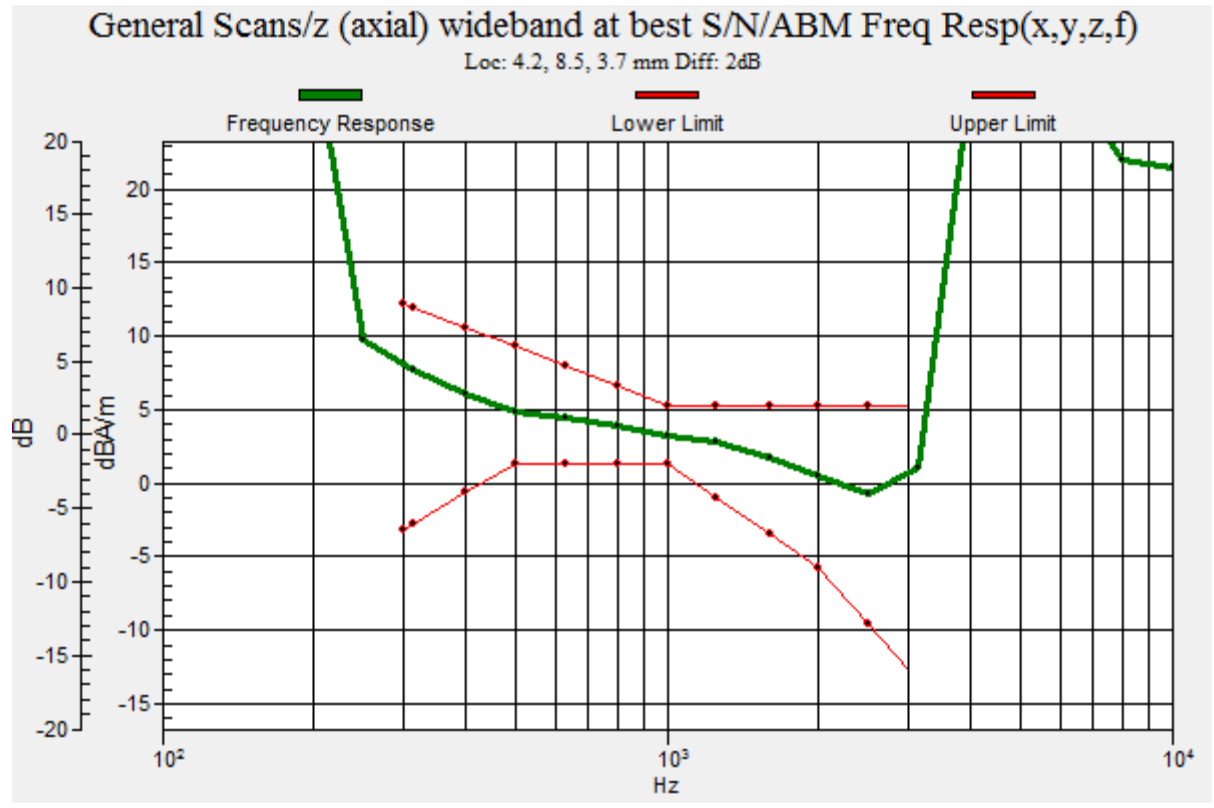
Location: 4.3, 2.8, 3.7 mm





LTE BAND66	Axial Y
<p>Communication System: UID 0, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) (0); Frequency: 1745 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band66_T-Coil_HAC/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.06 dB ABM1 comp = -14.83 dBA/m BWC Factor = 0.16 dB Location: 0, -4.2, 3.7 mm</p>	
	

LTE BAND66	Axial Z & Frequency Resp.
<p>Communication System: UID 0, LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) (0); Frequency: 1745 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band66_T-Coil_HAC/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 42 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.03 dB ABM1 comp = -3.56 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_LTE band66_T-Coil_HAC/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: 82.26 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 2.00 dB BWC Factor = 10.80 dB Location: 0.7, 3.3, 3.7 mm</p>	
	



WIFI 2.4G 802.11g	Axial Y
<p>Communication System: UID 10415 - AAA, IEEE 802.11g WiFi 2.4 GHz (0); Frequency: 2437 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 26.5 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p> <p>Cursor: ABM1/ABM2 = 22.61 dB ABM1 comp = -13.15 dBA/m BWC Factor = 0.15 dB Location: 4.2, 16.7, 3.7 mm</p> <div style="text-align: center;"> </div>	

WIFI 2.4G 802.11g

Axial Z & Frequency Resp.

Communication System: UID 10415 - AAA, IEEE 802.11g WiFi 2.4 GHz (0); Frequency: 2437 MHz;
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: TCoil Section

DASY Configuration:

- Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn720; Calibrated: 2020/9/30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav
Output Gain: 26.5
Measure Window Start: 300ms
Measure Window Length: 1000ms
BWC applied: 0.15 dB
Device Reference Point: 0, 0, -6.3 mm

Cursor:

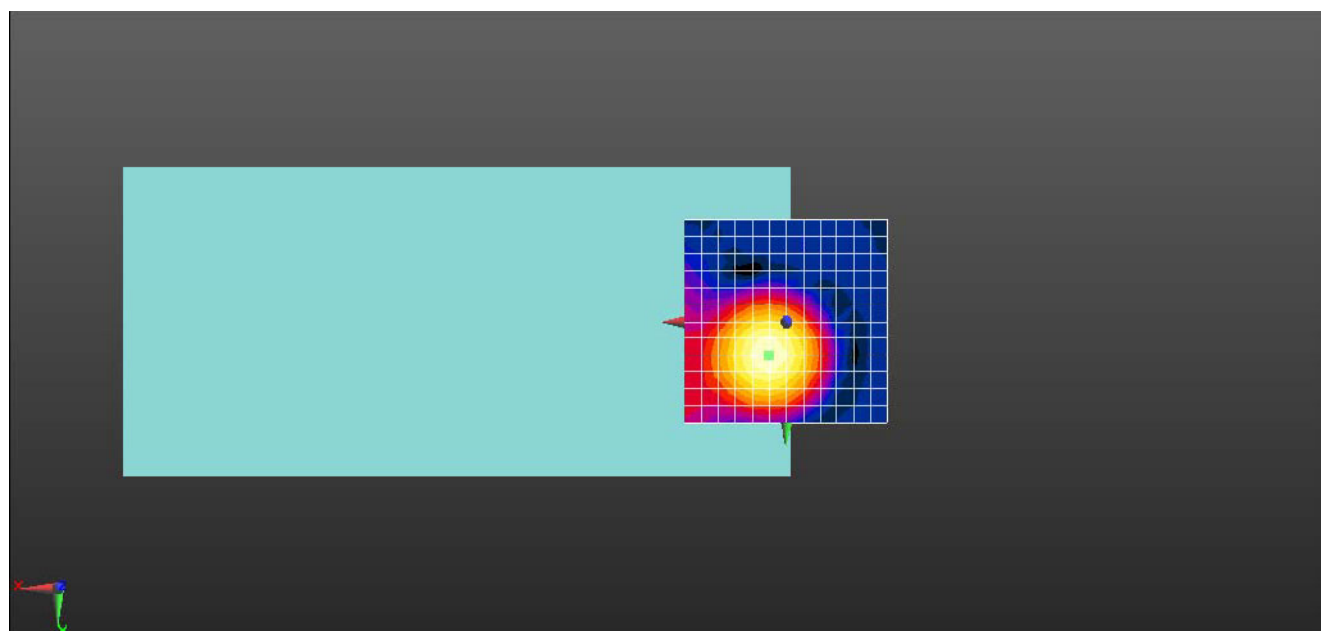
ABM1/ABM2 = 25.82 dB
ABM1 comp = -4.85 dBA/m
BWC Factor = 0.15 dB
Location: 4.2, 8.3, 3.7 mm

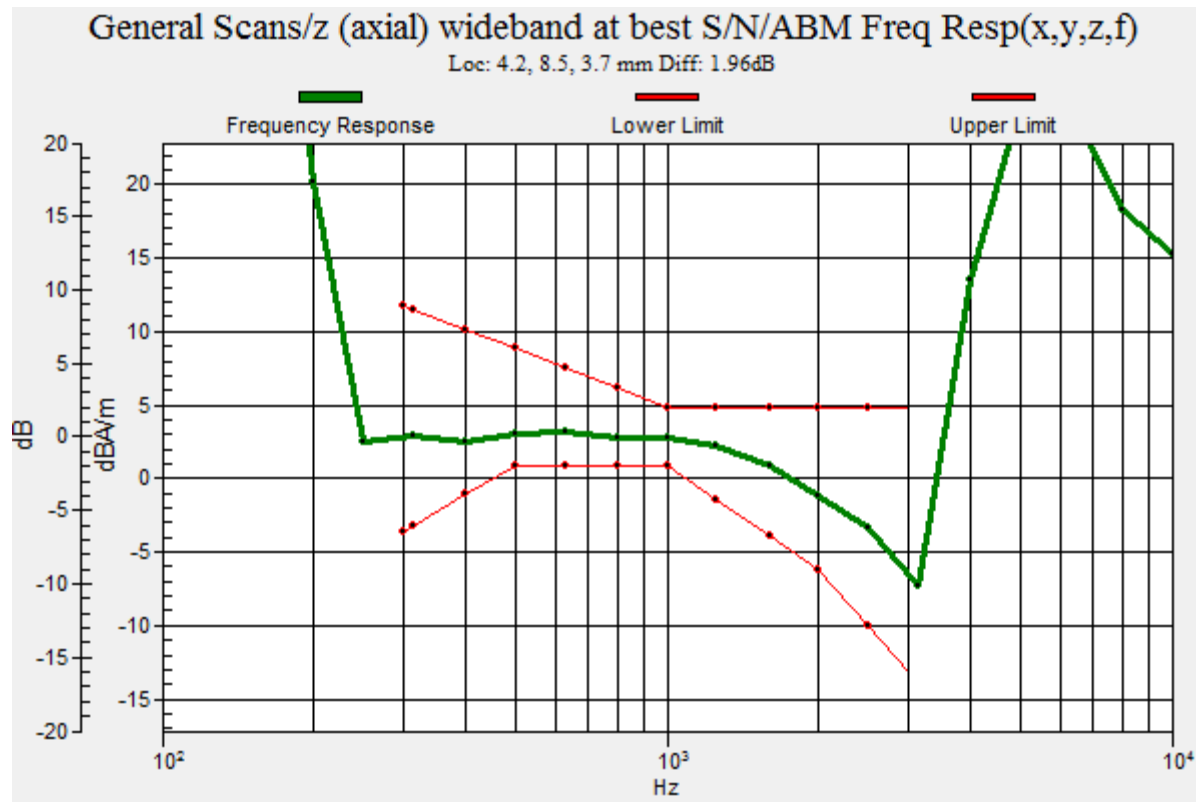
T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav
Output Gain: 51.9
Measure Window Start: 300ms
Measure Window Length: 2000ms
BWC applied: 10.80 dB
Device Reference Point: 0, 0, -6.3 mm

Cursor:

Diff = 1.96 dB
BWC Factor = 10.80 dB
Location: -1.2, 5.2, 3.7 mm





WIFI 2.4G 802.11g VoIP	Axial Y
<p>Communication System: UID 10415 - AAA, IEEE 802.11g WiFi 2.4 GHz (0); Frequency: 2437 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 26.5 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p> <p>Cursor: ABM1/ABM2 = 32.07 dB ABM1 comp = -7.61 dBA/m BWC Factor = 0.16 dB Location: 4.2, 20.8, 3.7 mm</p> <div style="text-align: center;"> </div>	

WIFI 2.4G 802.11g VoIP

Axial Z & Frequency Resp.

Communication System: UID 10415 - AAA, IEEE 802.11g WiFi 2.4 GHz (0); Frequency: 2437 MHz;
Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: TCoil Section

DASY Configuration:

- Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22
- Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn720; Calibrated: 2020/9/30
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373)

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

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

Output Gain: 26.5

Measure Window Start: 300ms

Measure Window Length: 1000ms

BWC applied: 0.15 dB

Device Reference Point: 0, 0, -6.3 mm

Cursor:

ABM1/ABM2 = 33.30 dB

ABM1 comp = 1.50 dBA/m

BWC Factor = 0.16 dB

Location: 4.2, 8.3, 3.7 mm

T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm

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

Output Gain: 51.9

Measure Window Start: 300ms

Measure Window Length: 2000ms

BWC applied: 10.80 dB

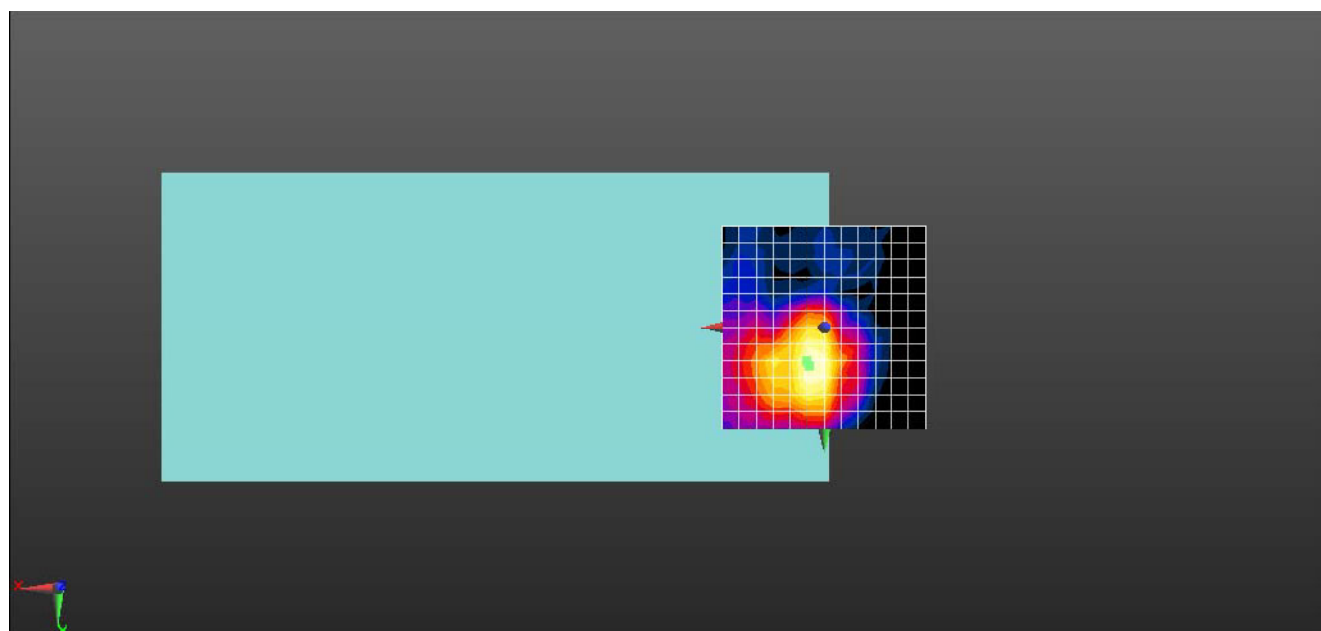
Device Reference Point: 0, 0, -6.3 mm

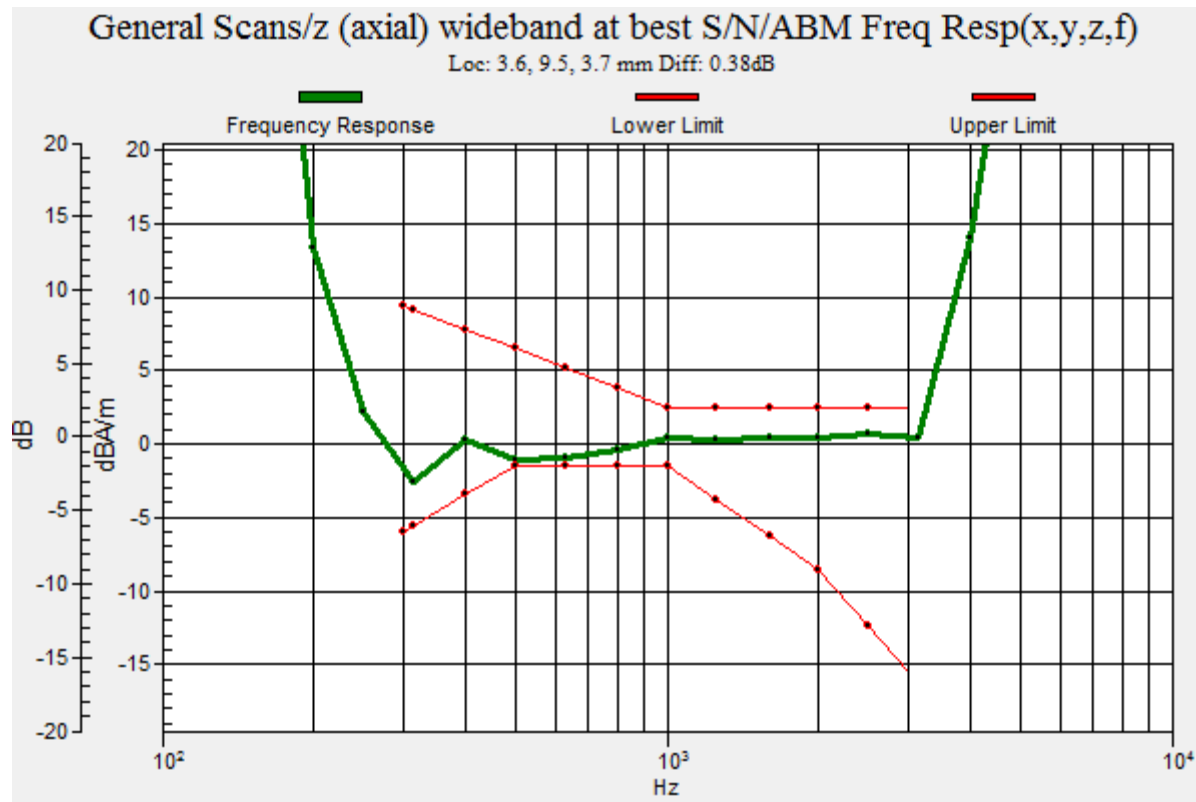
Cursor:

Diff = 0.38 dB

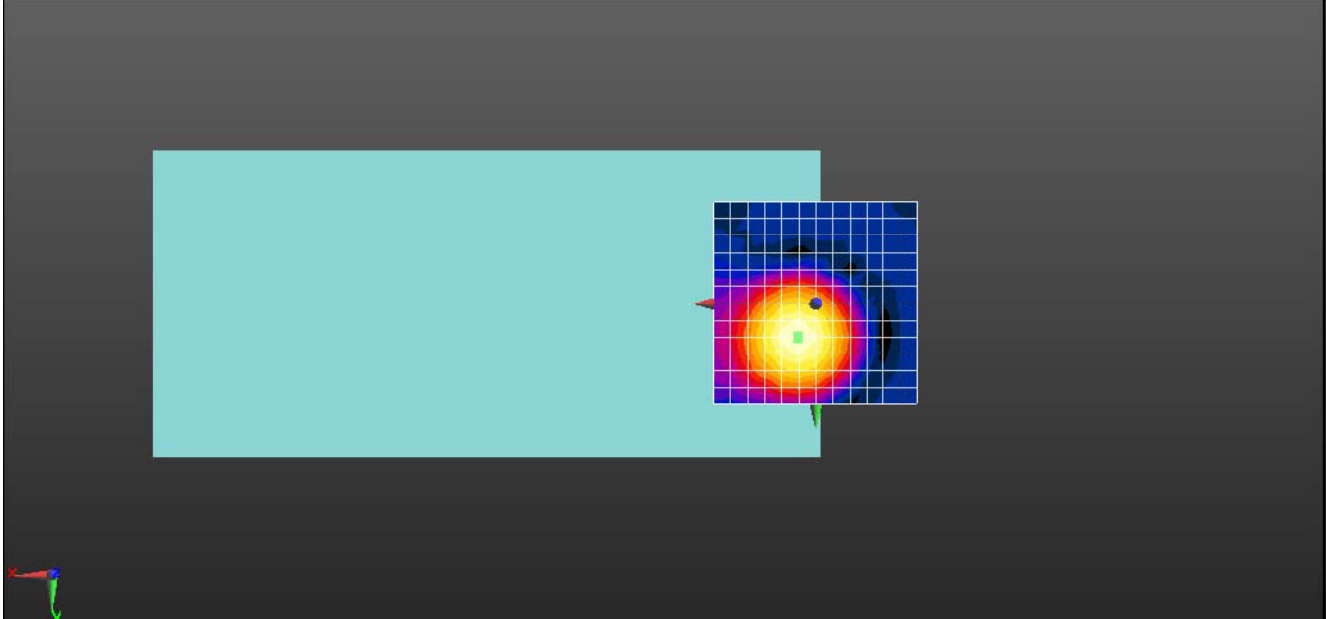
BWC Factor = 10.80 dB

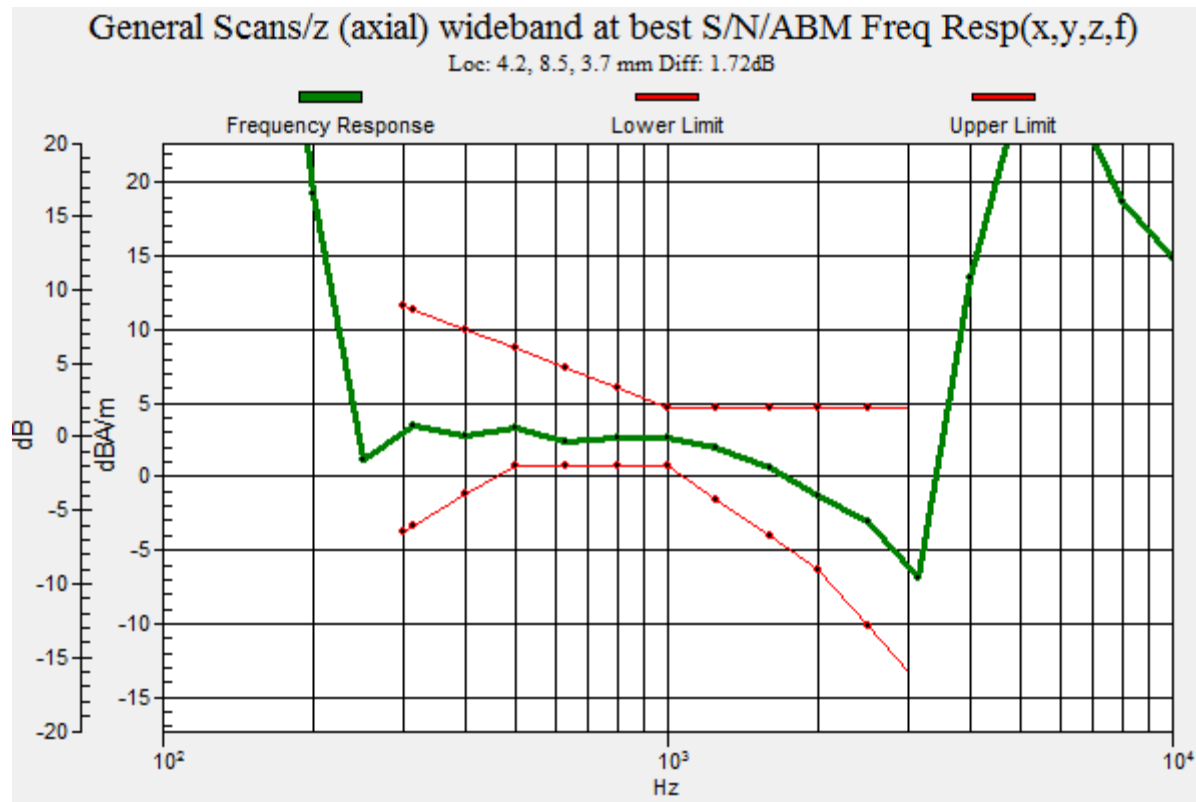
Location: -1.2, 5.2, 3.7 mm

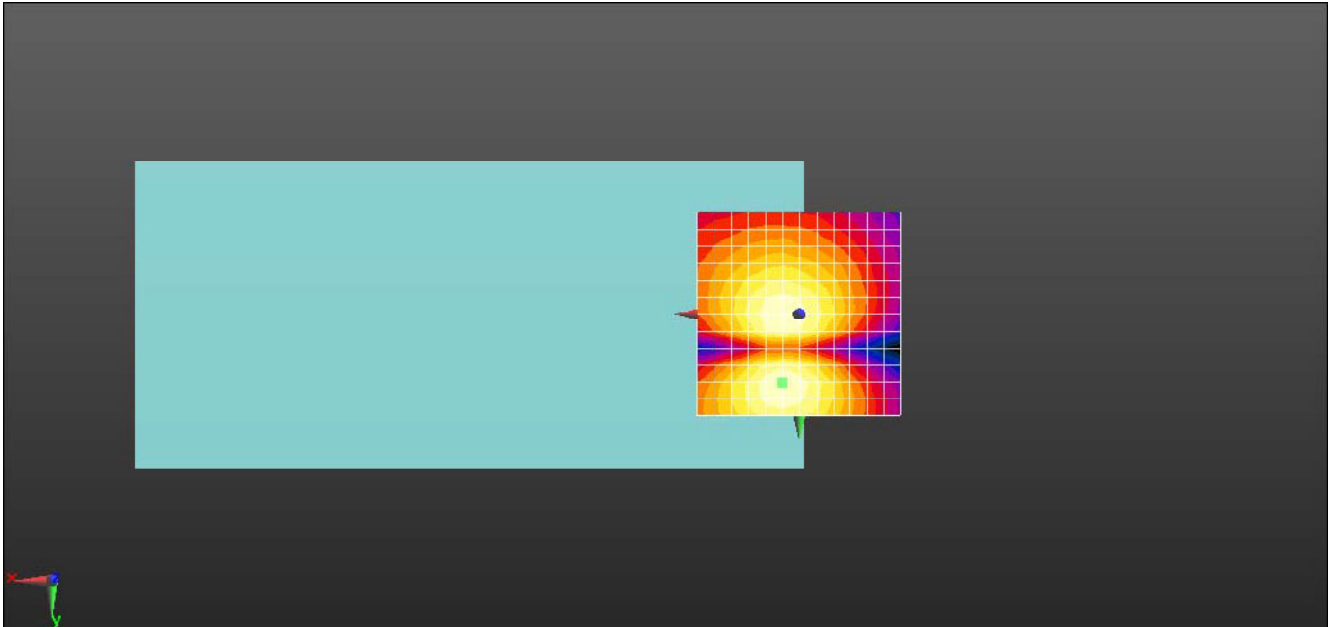


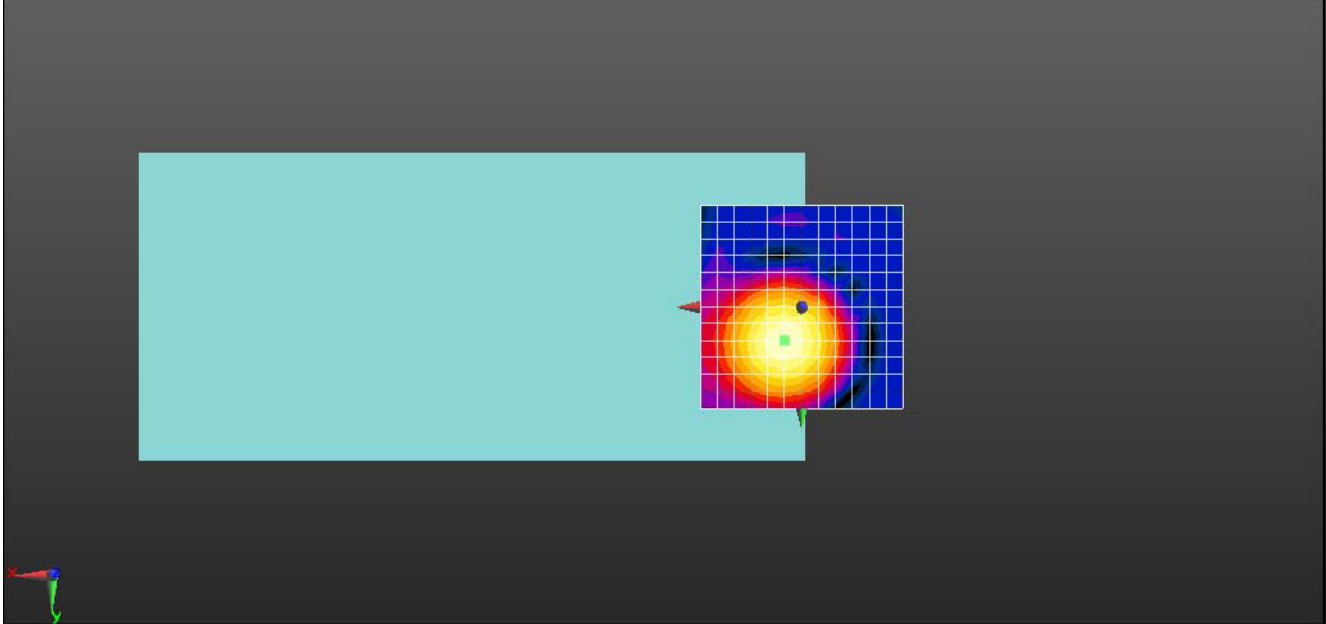


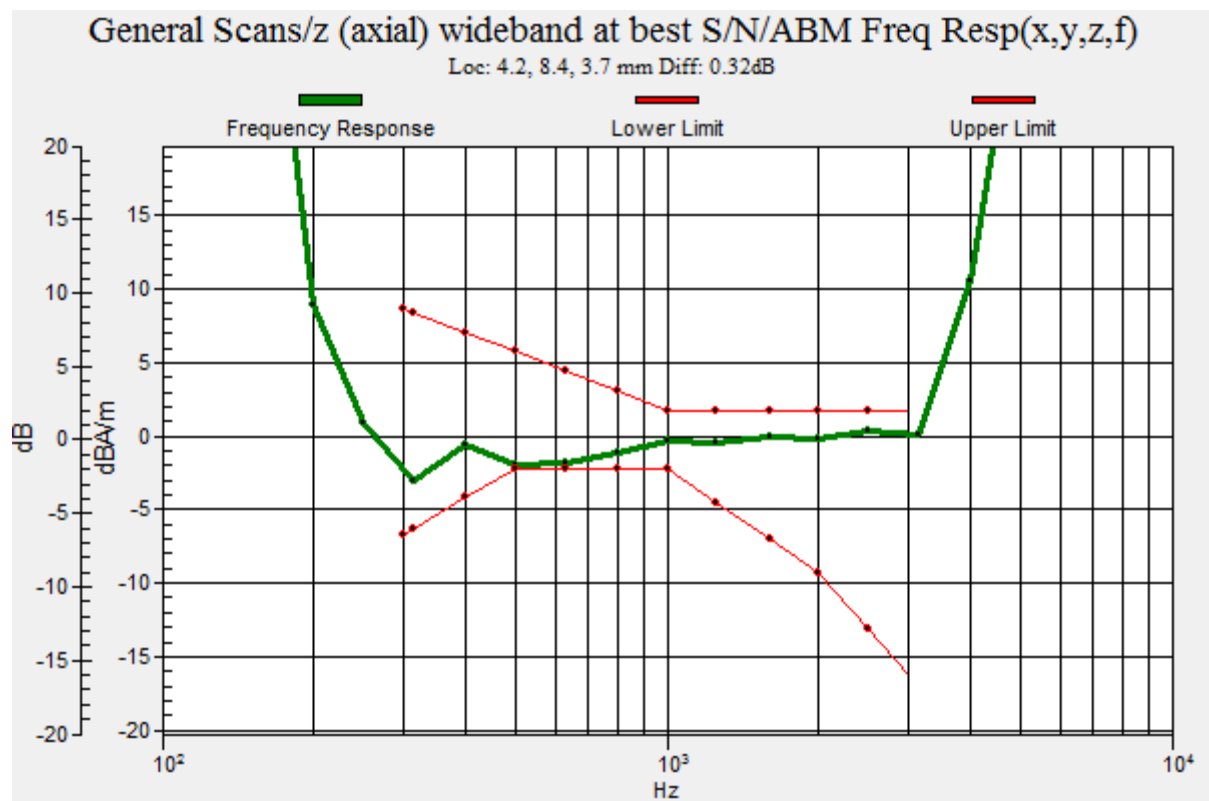
WIFI 5G 802.11ac-VHT20 40CH	Axial Y
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5200 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p> <p>Cursor: ABM1/ABM2 = 26.30 dB ABM1 comp = -13.39 dBA/m BWC Factor = 0.15 dB Location: 4.2, 16.7, 3.7 mm</p> <div style="text-align: center;"> </div>	

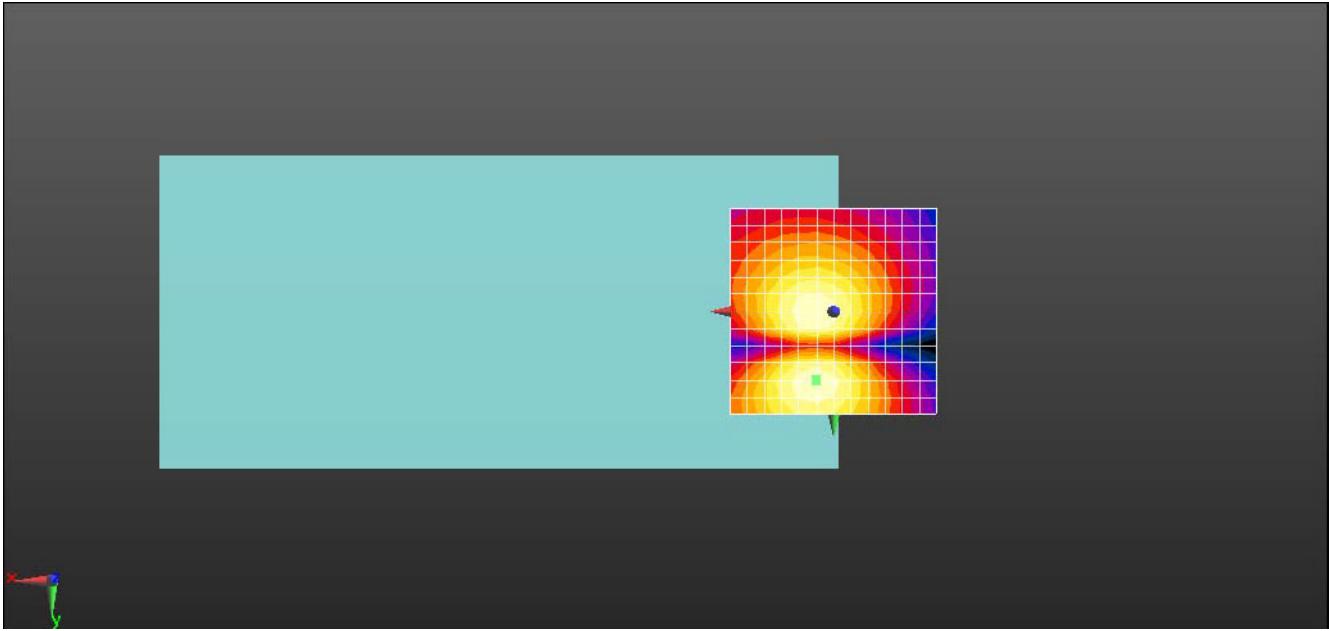
WIFI 5G 802.11ac-VHT20 40CH	Axial Z & Frequency Resp.
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5200 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 26.19 dB ABM1 comp = -4.69 dBA/m BWC Factor = 0.15 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 51.9 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 1.72 dB BWC Factor = 10.80 dB Location: -1.2, 5.2, 3.7 mm</p>	
	

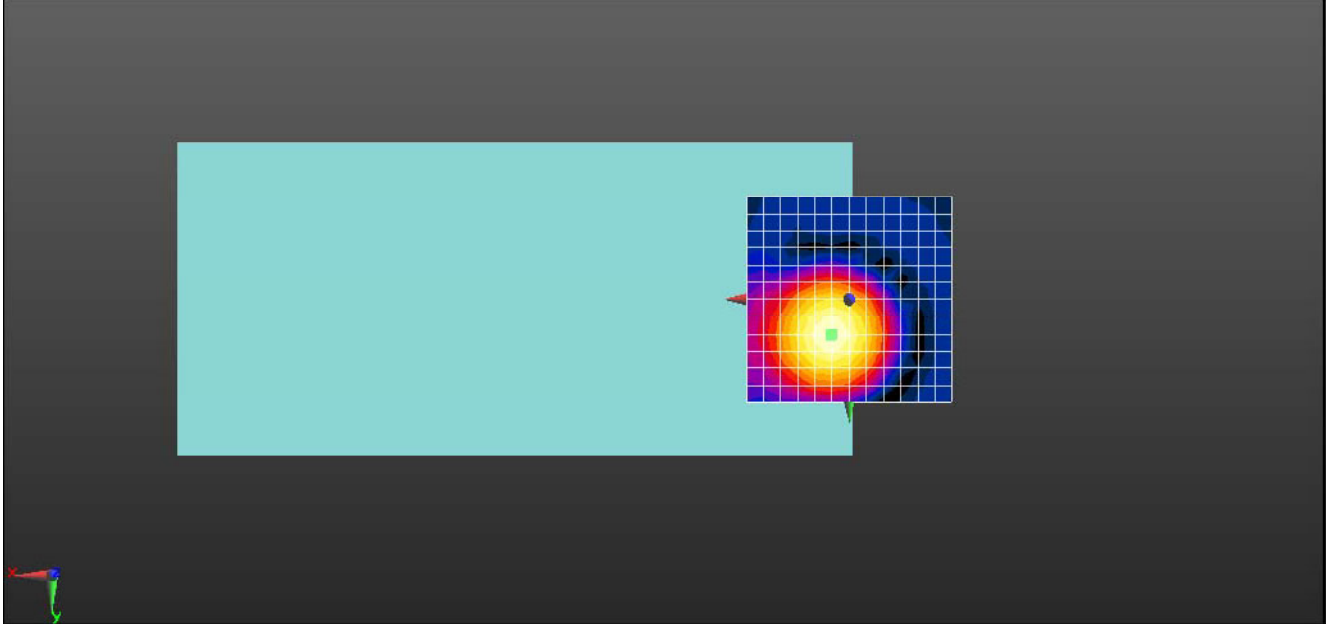


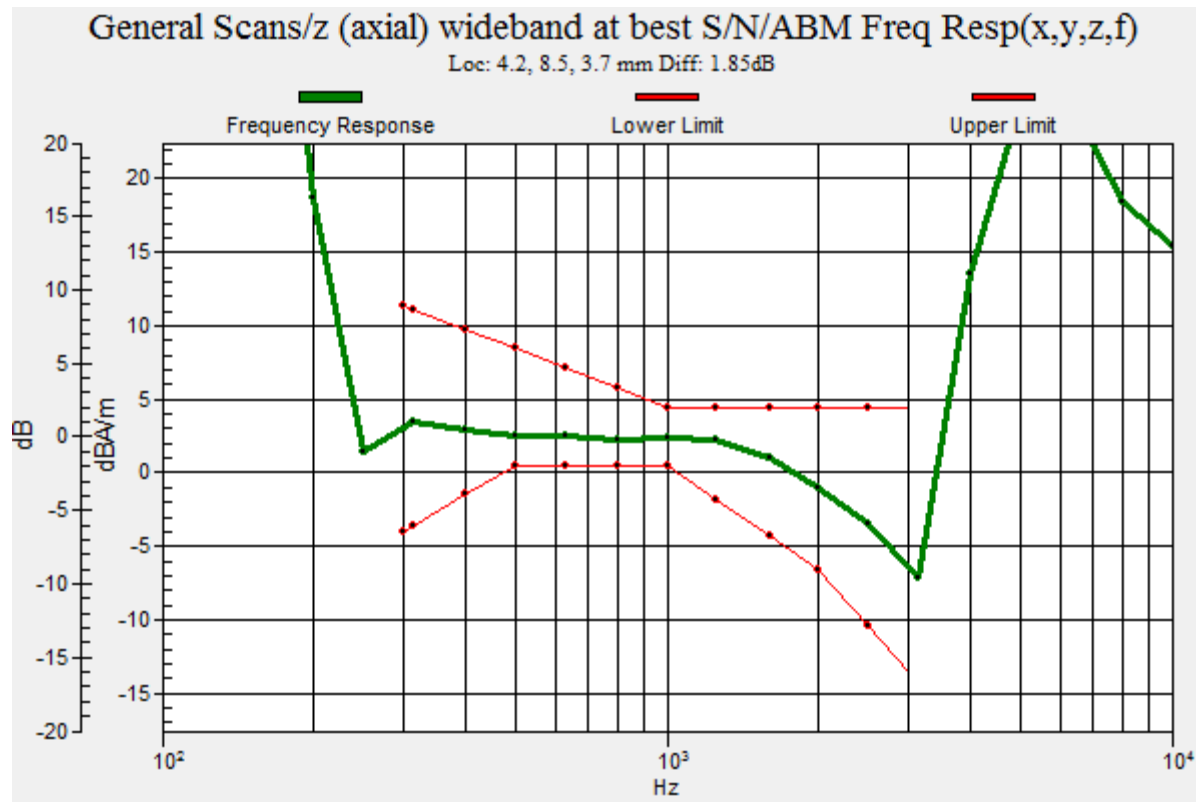
WIFI 5G 802.11ac-VHT20 40CH VoIP	Axial Y
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5200 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p> <p>Cursor: ABM1/ABM2 = 34.11 dB ABM1 comp = -6.35 dBA/m BWC Factor = 0.16 dB Location: 4.2, 16.7, 3.7 mm</p> 	

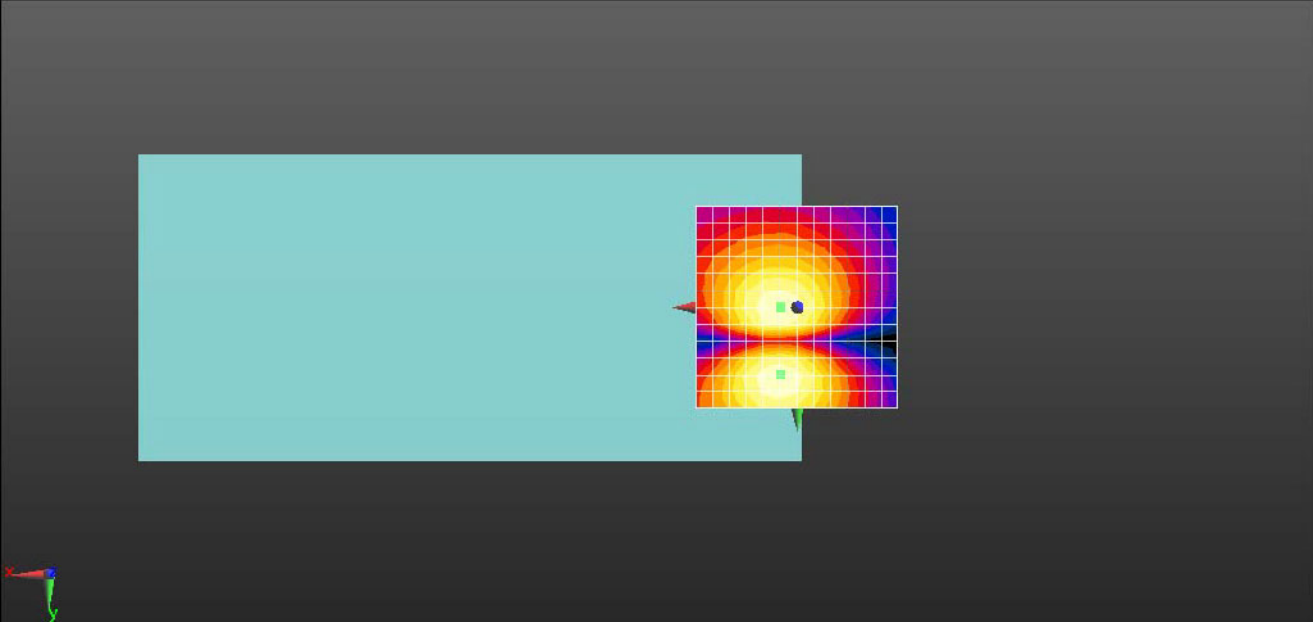
WIFI 5G 802.11ac-VHT20 40CH VoIP	Axial Z & Frequency Resp.
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5200 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 35.80 dB ABM1 comp = 2.19 dBA/m BWC Factor = 0.16 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 51.9 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 0.32 dB BWC Factor = 10.80 dB Location: -1.2, 5.2, 3.7 mm</p>	
	

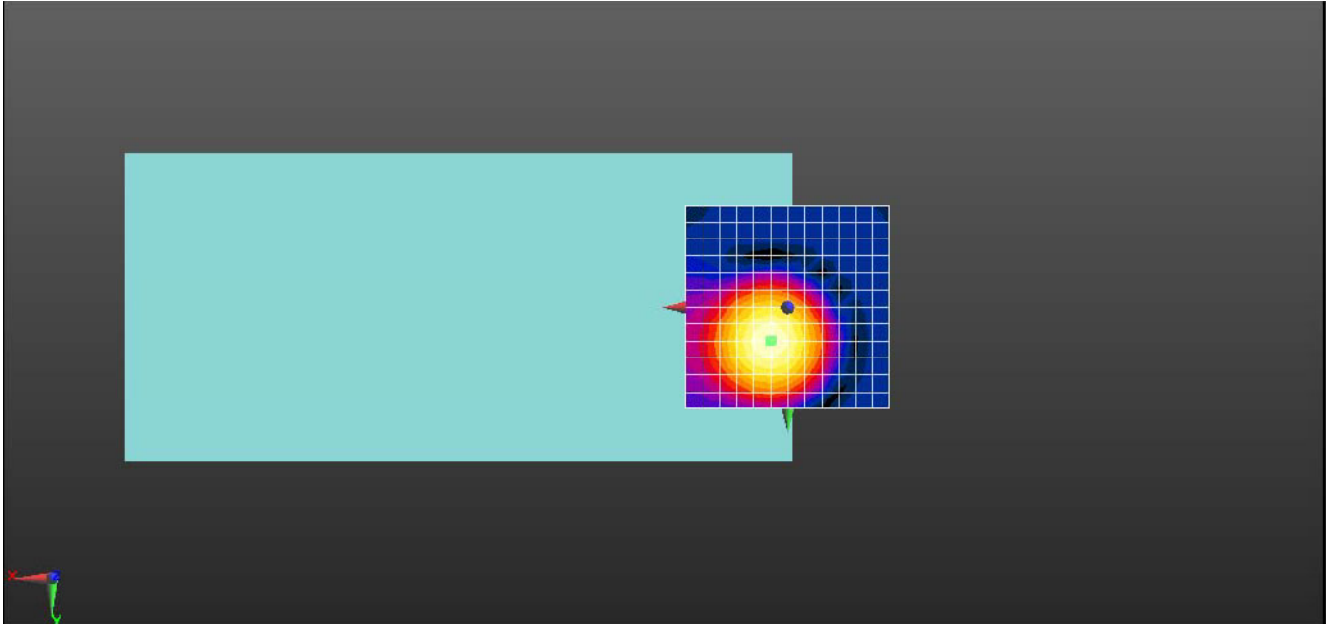


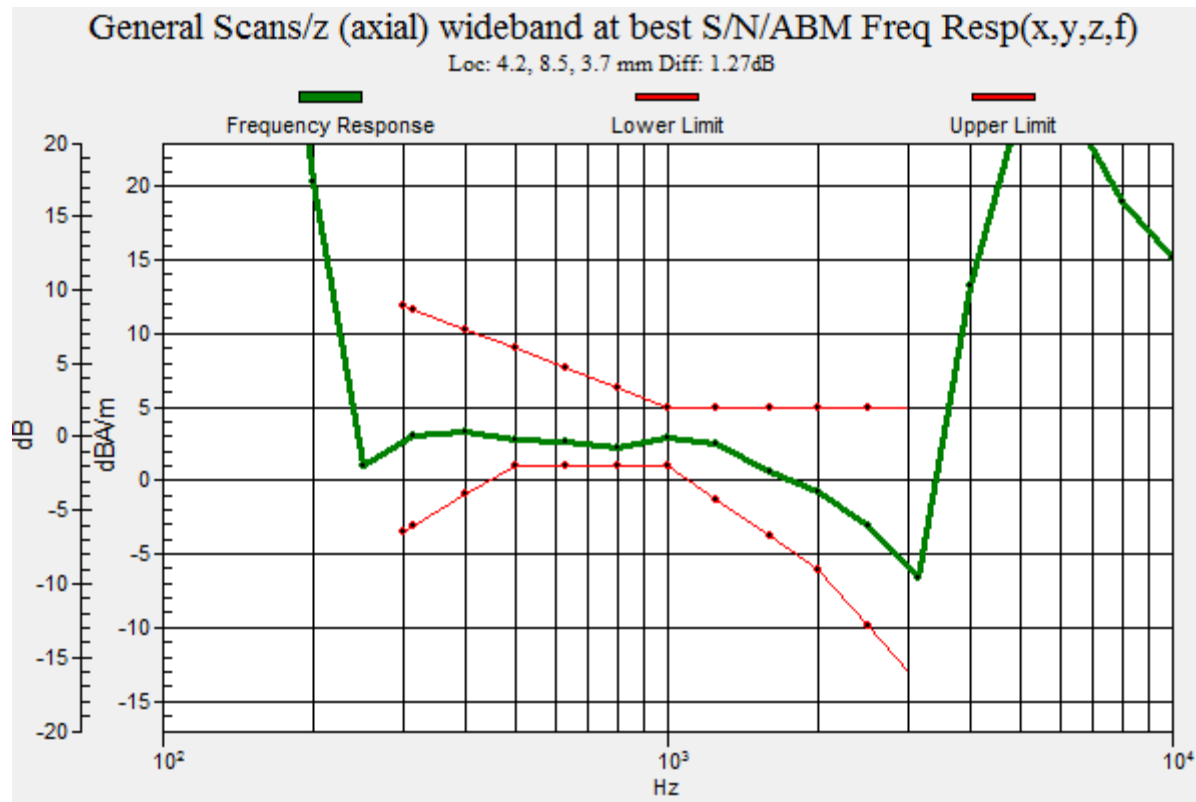
WIFI 5G 802.11ac-VHT20 60CH	Axial Y
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5300 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.88 dB ABM1 comp = -12.91 dBA/m BWC Factor = 0.15 dB Location: 4.2, 16.7, 3.7 mm</p>	
	

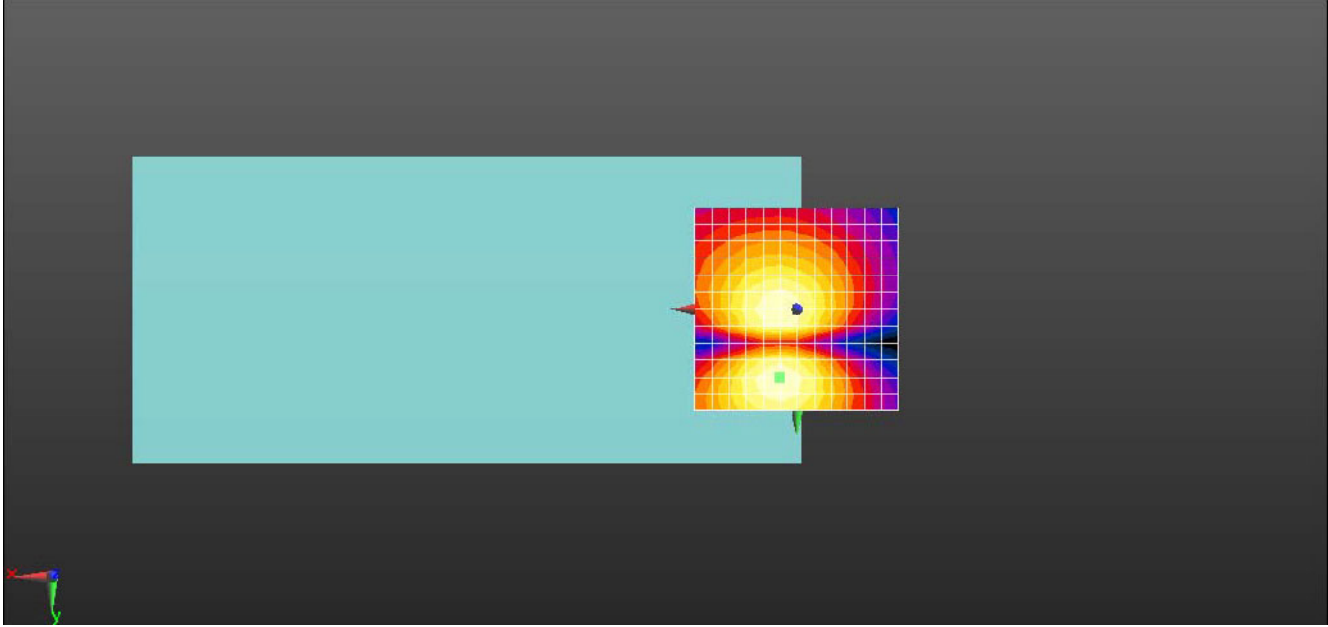
WIFI 5G 802.11ac-VHT20 60CH	Axial Z & Frequency Resp.
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5300 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 29.13 dB ABM1 comp = -4.76 dBA/m BWC Factor = 0.15 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 51.9 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 1.85 dB BWC Factor = 10.80 dB Location: -1.2, 5.2, 3.7 mm</p>	
	



WIFI 5G 802.11ac-VHT20 124CH	Axial Y
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5620 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 Sensor-Surface: 0mm (Fix Surface) Electronics: DAE4 Sn720; Calibrated: 2020/9/30 Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p> <p>Cursor: ABM1/ABM2 = 27.98 dB ABM1 comp = -13.15 dBA/m BWC Factor = 0.15 dB Location: 4.2, 16.7, 3.7 mm</p> 	

WIFI 5G 802.11ac-VHT20 124CH	Axial Z & Frequency Resp.
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5620 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.73 dB ABM1 comp = -4.73 dBA/m BWC Factor = 0.15 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 51.9 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 1.27 dB BWC Factor = 10.80 dB Location: -1.2, 5.2, 3.7 mm</p>	
	



WIFI 5G 802.11ac-VHT20 157CH	Axial Y
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5785 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p> <p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) <p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/y (transversal) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p> <p>Cursor: ABM1/ABM2 = 26.77 dB ABM1 comp = -13.02 dBA/m BWC Factor = 0.15 dB Location: 4.2, 16.7, 3.7 mm</p> 	

WIFI 5G 802.11ac-VHT20 157CH	Axial Z & Frequency Resp.
<p>Communication System: UID 0, IEEE 802.11ac WiFi 5 GHz (0); Frequency: 5785 MHz; Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³ Phantom section: TCoil Section</p>	
<p>DASY Configuration:</p> <ul style="list-style-type: none"> • Probe: AM1DV2 - 1021; ; Calibrated: 2020/10/22 • Sensor-Surface: 0mm (Fix Surface) • Electronics: DAE4 Sn720; Calibrated: 2020/9/30 • Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; • DASY52 52.8.8(1258); SEMCAD X 14.6.10(7373) 	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) 4.2mm 50 x 50/ABM Interpolated SNR(x,y,z) (121x121x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm Signal Type: Audio File (.wav) 48k_voice_1kHz_1s.wav Output Gain: 23.0 Measure Window Start: 300ms Measure Window Length: 1000ms BWC applied: 0.15 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: ABM1/ABM2 = 28.26 dB ABM1 comp = -4.70 dBA/m BWC Factor = 0.15 dB Location: 4.2, 8.3, 3.7 mm</p>	
<p>T-Coil scan (scan for ANSI C63.19-2011 compliance)/General Scans_WIFI2.4G 802.11b_T-Coil_HAC 2 4/z (axial) wideband at best S/N/ABM Freq Resp(x,y,z,f) (1x1x1): Measurement grid: dx=10mm, dy=10mm Signal Type: Audio File (.wav) 48k_voice_300-3000_2s.wav Output Gain: 51.9 Measure Window Start: 300ms Measure Window Length: 2000ms BWC applied: 10.80 dB Device Reference Point: 0, 0, -6.3 mm</p>	
<p>Cursor: Diff = 1.51 dB BWC Factor = 10.80 dB Location: -1.2, 5.2, 3.7 mm</p>	
