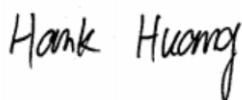


HEARING AID COMPATIBILITY RF EMISSIONS TEST REPORT

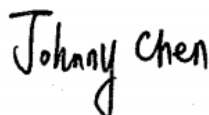
FCC ID : IHDT56ZP5
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2165-3, XT2165-3PP, XT2165DL, XT2165-5
M-Rating : M3
Applicant : Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer : Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA
Standard : FCC 47 CFR §20.19
ANSI C63.19-2011

We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.



Reviewed by: Hank Huang / Supervisor



Approved by: Johnny Chen / Manager



Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China



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Appendix A. Plots of System Performance Check

Appendix B. Plots of RF Emission Measurement

Appendix C. DASY Calibration Certificate

Appendix D. Test Setup Photos



History of this test report

Report No.	Version	Description	Issued Date
HA170628A	Rev. 01	Initial issue of report	Sep. 17, 2021



1. General Information

Product Feature & Specification	
Applicant Name	Motorola Mobility LLC
Equipment Name	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2165-3, XT2165-3PP, XT2165DL, XT2165-5
IMEI Code	351024740023630
FCC ID	IHDT56ZP5
HW	DVT2
SW	RRQ31.Q3-51
EUT Stage	Identical Prototype
Date Tested	2021/08/28 ~ 2021/09/16
Frequency Band	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz
Mode	GSM/GPRS/EGPRS AMR / RMC 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+ (16QAM uplink is supported) LTE: QPSK, 16QAM, 64QAM WLAN 2.4GHz : 802.11b/g/n HT20/HT40 WLAN 5GHz : 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE



2. Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

3. Applied Standards

- FCC CFR47 Part 20.19
- ANSI C63.19-2011
- FCC KDB 285076 D01 HAC Guidance v05r01
- FCC KDB 285076 D02 T Coil testing v03r01
-

4. RF Audio Interference Level

FCC wireless hearing aid compatibility rules ensure that consumers with hearing loss are able to access wireless communications services through a wide selection of handsets without experiencing disabling radio frequency (RF) interference or other technical obstacles.

To define and measure the hearing aid compatibility of handsets, in CFR47 part 20.19 ANSI C63.19 is referenced. A handset is considered hearing aid-compatible for acoustic coupling if it meets a rating of at least M3 under ANSI C63.19, and A handset is considered hearing aid compatible for inductive coupling if it meets a rating of at least T3. According to ANSI C63.19 2011 version, for acoustic coupling, the RF electric field emissions of wireless communication devices should be measured and rated according to the emission level as below.

Emission Categories	E-field emissions	
	<960Mhz	>960Mhz
M1	50 to 55 dB (V/m)	40 to 45 dB (V/m)
M2	45 to 50 dB (V/m)	35 to 40 dB (V/m)
M3	40 to 45 dB (V/m)	30 to 35 dB (V/m)
M4	<40 dB (V/m)	<30 dB (V/m)

Table 4.1 Telephone near-field categories in linear units

5. Air Interface and Operating Mode

Air Interface	Band MHz	Type	C63.19 Tested	Simultaneous Transmitter	Name of Voice Service	Power Reduction
GSM	GSM850	VO	Yes	WLAN, BT	CMRS Voice	No
	GSM1900			WLAN, BT		No
	EDGE850	VD	Yes	WLAN, BT	Google Duo	No
	EDGE1900			WLAN, BT		
WCDMA	Band II	VO	No ⁽¹⁾	WLAN, BT	CMRS Voice	No
	Band IV			WLAN, BT		No
	Band V			WLAN, BT		No
	HSPA	VD	No ⁽¹⁾	WLAN, BT	Google Duo	No
LTE (FDD)	Band 2	VD	No ⁽¹⁾	WLAN, BT	VoLTE / Google Duo	No
	Band 4			WLAN, BT		No
	Band 5			WLAN, BT		No
	Band 7			WLAN, BT		No
	Band 12			WLAN, BT		No
	Band 13			WLAN, BT		No
	Band 17			WLAN, BT		No
	Band 25			WLAN, BT		No
	Band 26			WLAN, BT		No
	Band 66			WLAN, BT		No
	Band 71			WLAN, BT		No
LTE (TDD)	Band 38	VD	Yes	WLAN, BT	VoLTE / Google Duo	No
	Band 41			WLAN, BT		No
Wi-Fi	2450	VD	Yes	GSM,WCDMA,LTE	VoWiFi / Google Duo	No
	5200			GSM,WCDMA,LTE, BT		No
	5300			GSM,WCDMA,LTE, BT		No
	5500			GSM,WCDMA,LTE, BT		No
	5800			GSM,WCDMA,LTE, BT		No
BT	2450	DT	No	GSM,WCDMA,LTE, WLAN 5GHz	NA	No

Type Transport:

VO= Voice only

DT= Digital Transport only (no voice)

VD= CMRS and IP Voice Service over Digital Transport

Remark:

- The air interface is exempted from testing by low power exemption that its average antenna input power plus its MIF is ≤ 17 dBm, and is rated as M4.
- The device have similar frequency in some LTE Bands: LTE B38 and LTE B41, since the supported frequency spans for the smaller LTE bands are completely cover by the larger LTE bands, therefore, only larger LTE bands were required to be tested for hearing-aid compliance.

6. Measurement System Specification

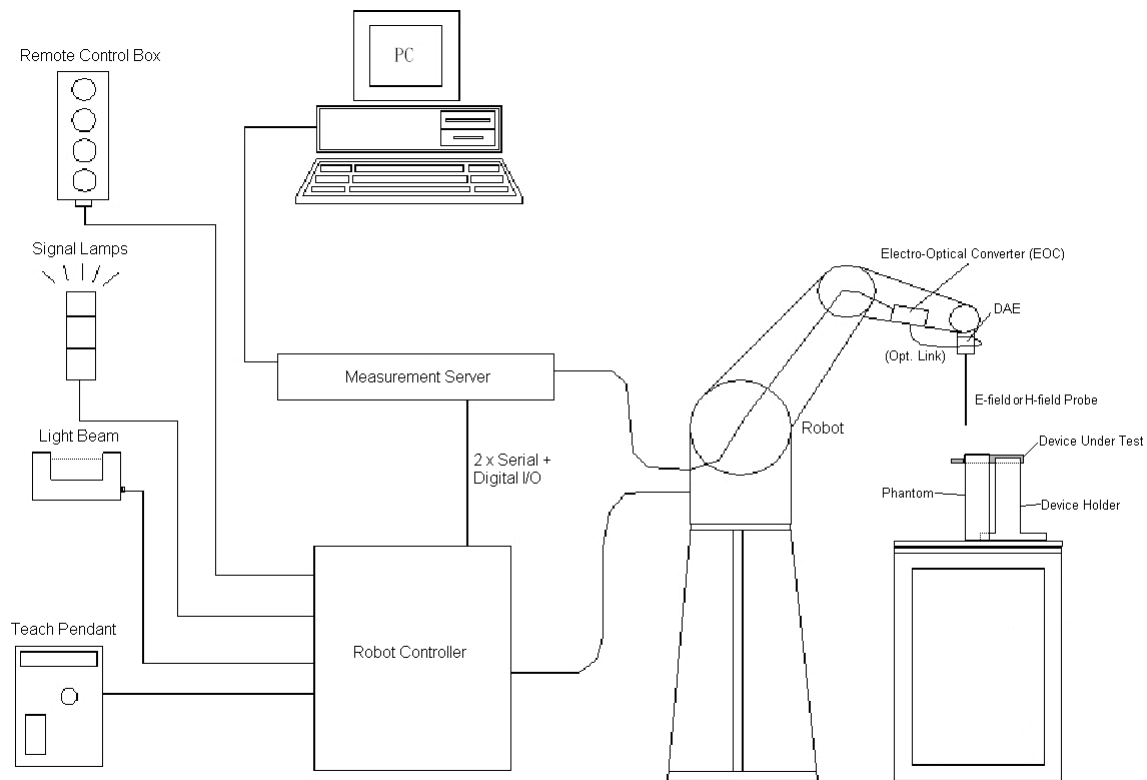


Fig 6.1 System Configurations

6.1 E-Field Probe System

E-Field Probe Specification

<EF3DV3>

Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges
Calibration	In air from 30 MHz to 6.0 GHz (absolute accuracy $\pm 6.0\%$, $k=2$)
Frequency	30 MHz to 6 GHz; Linearity: ± 2.0 dB (100 MHz to 3 GHz)
Directivity	± 0.2 dB in air (rotation around probe axis) ± 0.4 dB in air (rotation normal to probe axis)
Dynamic Range	2 V/m to 1000 V/m (M3 or better device readings fall well below diode compression point)
Linearity	± 0.2 dB
Dimensions	Overall length: 337 mm (Tip: 16 mm) Tip diameter: 4 mm (Body: 12 mm) Distance from probe tip to dipole centers: 1.5 mm



Photo of E-field Probe

Probe Tip Description:

HAC field measurements take place in the close near field with high gradients. Increasing the measuring distance from the source will generally decrease the measured field values (in case of the validation dipole approx. 10 % per mm).

6.2 Data Storage and Evaluation

The DASY software stores the assessed data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all the necessary software parameters for the data evaluation (probe calibration data, and device frequency and modulation data) in measurement files.

Probe parameters :	- Sensitivity	Norm _i , a _{i0} , a _{i1} , a _{i2}
	- Conversion factor	ConvF _i
	- Diode compression point	dcp _i
Device parameters :	- Frequency	f
	- Crest factor	cf
Media parameters :	- Conductivity	σ
	- Density	ρ

The formula for each channel can be given as :

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

with V_i = compensated signal of channel i, (i = x, y, z)
 U_i = input signal of channel i, (i = x, y, z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

From the compensated input signals, the primary field data for each channel can be evaluated :

$$\text{E-field Probes : } E_i = \sqrt{\frac{V_i}{\text{Norm}_i \cdot \text{ConvF}}}$$

with V_i = compensated signal of channel i, (i = x, y, z)
 Norm_i = sensor sensitivity of channel i, (i = x, y, z), $\mu\text{V}/(\text{V/m})^2$ for E-field Probes
 ConvF = sensitivity enhancement in solution
 f = carrier frequency [GHz]
 E_i = electric field strength of channel i in V/m

The RSS value of the field components gives the total field strength (Hermitian magnitude) :

$$E_{\text{tot}} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.



7. RF Emissions Test Procedure

Referenced from ANSI C63.19 -2011 section 5.5.1

- a. Confirm the proper operation of the field probe, probe measurement system, and other instrumentation and the positioning system.
- b. Position the WD in its intended test position.
- c. Set the WD to transmit a fixed and repeatable combination of signal power and modulation characteristic that is representative of the worst case (highest interference potential) encountered in normal use. Transiently occurring start-up, changeover, or termination conditions, or other operations likely to occur less than 1% of the time during normal operation, may be excluded from consideration.
- d. The center sub-grid shall be centered on the T-Coil mode perpendicular measurement point or the acoustic output, as appropriate. Locate the field probe at the initial test position in the 50 mm by 50 mm grid, which is contained in the measurement plane, refer to illustrated in Figure 8.2. If the field alignment method is used, align the probe for maximum field reception.
- e. Record the reading at the output of the measurement system.
- f. Scan the entire 50 mm by 50 mm region in equality spaced increments and record the reading at each measurement point. The distance between measurement points shall be sufficient to assure the identification of the maximum reading.
- g. Identify the five contiguous sub-grids around the center sub-grid whose maximum reading is the lowest of all available choices. This eliminates the three sub-grids with the maximum readings. Thus, the six areas to be used to determine the WD's highest emissions are identified.
- h. Identify the maximum reading within the non-excluded sub-grids identified in step g).
- i. Indirect measurement method
- j. The RF audio interference level in dB (V/m) is obtained by adding the MIF (in dB) to the maximum steady-state rms field-strength reading, in dB (V/m)
- k. Compare this RF audio interference level with the categories in ANSI C63.19-2011 clause 8 and record the resulting WD category rating.
- l. For the T-Coil perpendicular measurement location is ≥ 5.0 mm from the center of the acoustic output, then two different 50 mm by 50 mm areas may need to be scanned, the first for the microphone mode assessment and the second for the T-Coil assessment.
- m. The second for the T-Coil assessment, with the grid shifted so that it is centered on the perpendicular measurement point. Record the WD category rating.

Test Instructions

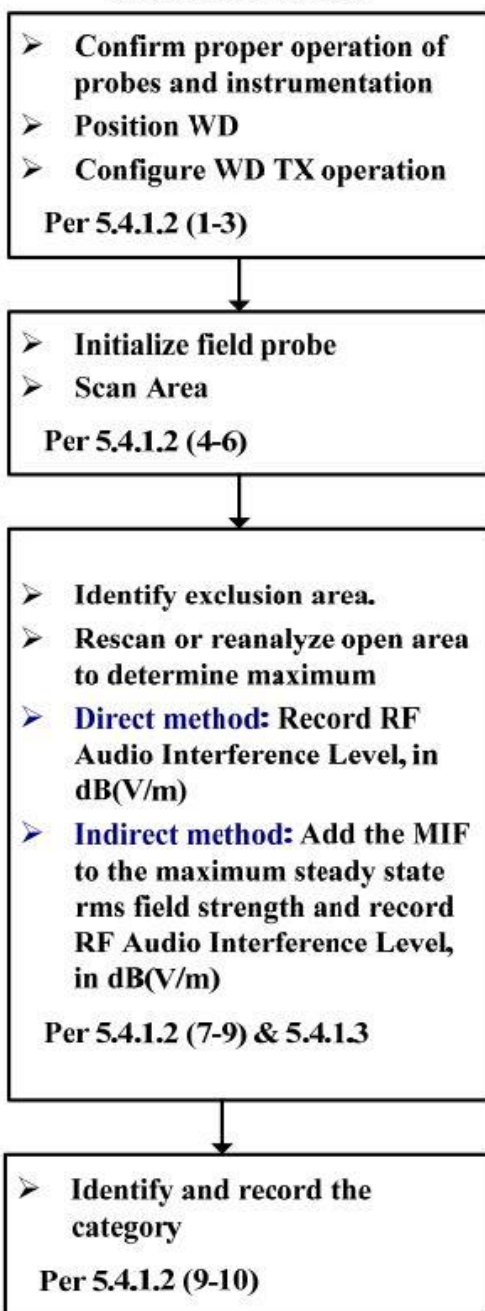


Figure 8.1 RF Emissions Flow Chart

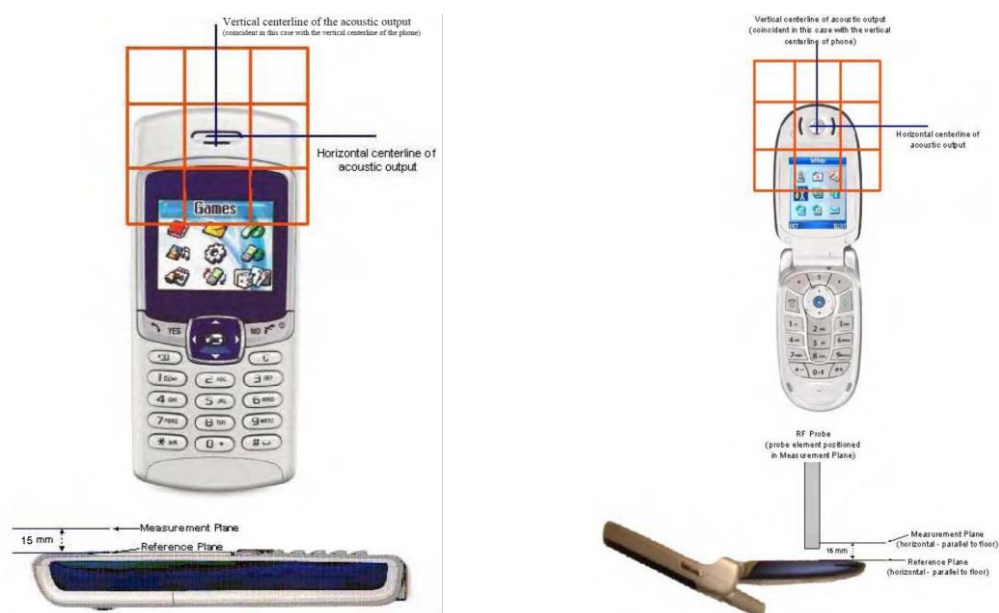


Fig 8.2 EUT reference and plane for HAC RF emission measurements

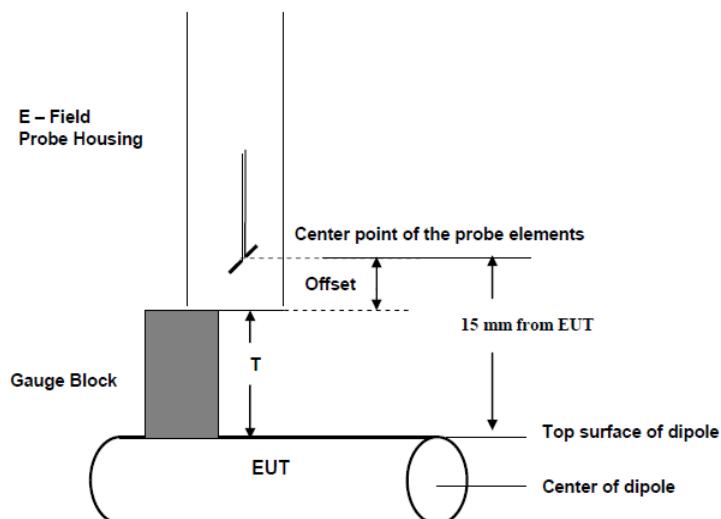


Fig. 8.3 Gauge block with E-field probe



8. Test Equipment List

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	835MHz Calibration Dipole	CD835V3	1045	Sep. 19, 2018	Sep. 16, 2021
SPEAG	1880MHz Calibration Dipole	CD1880V3	1038	Sep. 19, 2018	Sep. 16, 2021
SPEAG	2450MHz Calibration Dipole	CD2450V3	1186	Jan. 30, 2019	Jan. 27, 2022
SPEAG	2600Mhz Calibration Dipole	CD2600V3	1010	Mar. 14, 2019	Mar. 11, 2022
SPEAG	5500Mhz Calibration Dipole	CD5500V3	1009	Jan. 30, 2019	Jan. 27, 2022
SPEAG	Data Acquisition Electronics	DAE4	1386	Jan. 13, 2021	Jan. 12, 2022
SPEAG	Isotropic E-Field Probe	EF3DV3	4053	Apr. 29, 2021	Apr. 28, 2022
SPEAG	Audio Magnetic Calibration Coil	AMCC	1049	NCR	NCR
SPEAG	Audio Measuring Instrument	AMMI	1041	NCR	NCR
SPEAG	Test Arch Phantom	N/A	N/A	NCR	NCR
SPEAG	Phone Positioner	N/A	N/A	NCR	NCR
Anritsu	Radio communication analyzer	MT8820C	6201300653	Jul. 14, 2021	Jul. 13, 2022
R&S	Base Station(Measure)	CMU200	108440	Dec. 25, 2020	Dec. 24, 2021
R&S	Base Station(Measure)	CMW500	106599	Oct. 15, 2020	Oct. 14, 2021
Anritsu	Power Sensor	MA2411B	1207253	Dec. 25, 2020	Dec. 24, 2021
Anritsu	Power Meter	ML2495A	1218010	Dec. 25, 2020	Dec. 24, 2021
R&S	Power Sensor	NRP50S	101254	Apr. 09, 2021	Apr. 08, 2022
Agilent	Signal Generator	N5181A	MY50145381	NCR	NCR
Agilent	Dual Directional Coupler	778D	50422	NCR	NCR
Woken	Attenuator	WK0602-XX	N/A	NCR	NCR
AR	Amplifier	5S1G4	0333096	Apr. 08, 2021	Apr. 07, 2022
mini-circuits	Amplifier	ZVE-3W-83+	599201528	Apr. 08, 2021	Apr. 07, 2022
R&S	Spectrum Analyzer	FSP7	100818	Jul. 14, 2021	Jul. 13, 2022
Anymetre	Thermo-Hygrometer	JR593	2015030904	Jul. 17, 2021	Jul. 16, 2022
Weinschel	Attenuator 1	3M-10	N/A	NA	NA
Weinschel	Attenuator 2	3M-20	N/A	NA	NA
SPEAG	Device Holder	N/A	N/A	NA	NA
ARRA	Power Divider	A3200-2	N/A	NA	NA
ET Industries	Dual Directional Coupler	C-058-10	N/A	NA	NA

Note:

1. NCR: "No-Calibration Required"
2. Referring to KDB 865664 D01v01r04, the dipole calibration interval can be extended to 3 years with justification. The dipoles are also not physically damaged, or repaired during the interval.
3. The justification data can be found in appendix C. The return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration.

9. Measurement System Validation

Each DASY system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the test Arch and a corresponding distance holder.

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal HAC measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

<Test Setup>

1. In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator.
2. The center point of the probe element(s) is 15mm from the closest surface of the dipole elements.
3. The calibrated dipole must be placed beneath the arch phantom. The equipment setup is shown below:
4. The output power on dipole port must be calibrated to 20dBm (100mW) before dipole is connected.

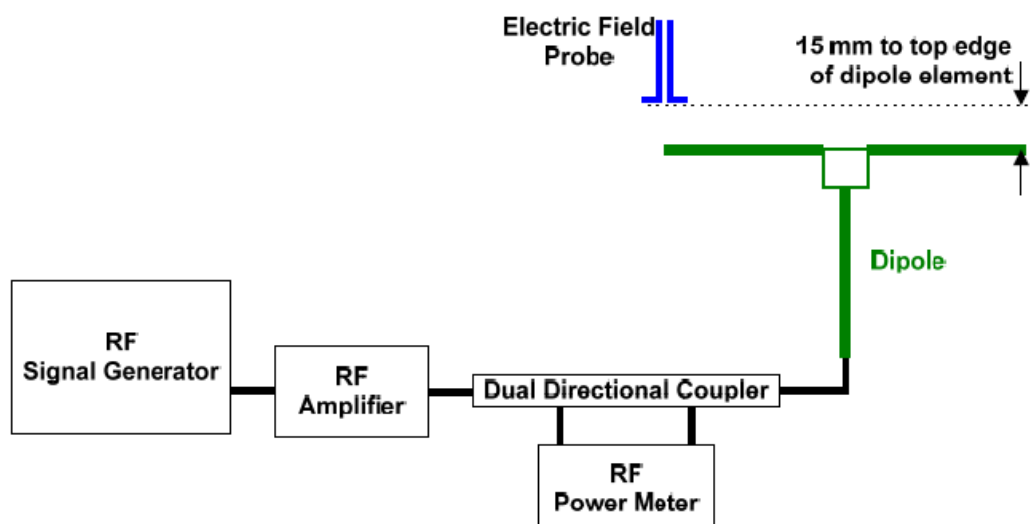


Fig. 7.1 Setup Diagram

<Validation Results>

Comparing to the original E-field value provided by SPEAG, the verification data should be within its specification of 18 %. Table 6.1 shows the target value and measured value. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to appendix A of this report.

Deviation = ((Average E-field Value) - (Target value)) / (Target value) * 100%

Frequency (MHz)	Input Power (dBm)	Target Value (V/m)	E-Field 1 (V/m)	E-Field 2 (V/m)	Average Value (V/m)	Deviation (%)	Date
835	20	108.8	121.6	117.1	119.35	9.70	Aug. 28, 2021
1880	20	89.5	101	95.28	98.14	9.65	Aug. 28, 2021
2450	20	84.1	99.4	97.1	98.25	16.83	Aug. 28, 2021
2600	20	84.5	87.19	88.55	87.87	3.99	Aug. 28, 2021
5500	20	99.8	112.8	113.6	113.2	13.43	Sep 16, 2021

10. Modulation Interference Factor

The HAC Standard ANSI C63.19-2011 defines a new scaling using the Modulation Interference Factor (MIF). For any specific fixed and repeatable modulated signal, a modulation interference factor (MIF, expressed in dB) may be developed that relates its interference potential to its steady-state rms signal level or average power level. This factor is a function only of the audio-frequency amplitude modulation characteristics of the signal and is the same for field-strength and conducted power measurements. It is important to emphasize that the MIF is valid only for a specific repeatable audio-frequency amplitude modulation characteristic. Any change in modulation characteristic requires determination and application of a new MIF.

The Modulation Interference factor (MIF, in dB) is added to the measured average E-field (in dBV/m) and converts it to the RF Audio Interference level (in dBV/m). This level considers the audible amplitude modulation components in the RF E-field. CW fields without amplitude modulation are assumed to not interfere with the hearing aid electronics. Modulations without time slots and low fluctuations at low frequencies have low MIF values, TDMA modulations with narrow transmission and repetition rates of few 100 Hz have high MIF values and give similar classifications as ANSI C63.19-2011.

ER3D, EF3D and EU2D E-field probes have a bandwidth <10 kHz and can therefore not evaluate the RF envelope in the full audio band. DASY52 is therefore using the indirect measurement method according to ANSI C63.19-2011 which is the primary method. These near field probes read the averaged E-field measurement. Especially for the new high peak-to-average (PAR) signal types, the probes shall be linearized by PMR calibration in order to not overestimate the field reading. Probe Modulation Response (PMR) calibration linearizes the probe response over its dynamic range for specific modulations which are characterized by their UID and result in an uncertainty specified in the probe calibration certificate. The MIF is characteristic for a given waveform envelope and can be used as a constant conversion factor if the probe has been PMR calibrated.

The evaluation method for the MIF is defined in ANSI C63.19-2011 section D.7. An RMS demodulated RF signal is fed to a spectral filter (similar to an A weighting filter) and forwarded to a temporal filter acting as a quasi-peak detector. The averaged output of these filtering is scaled to a 1 kHz 80% AM signal as reference. MIF measurement requires additional instrumentation and is not well suited for evaluation by the end user with reasonable uncertainty. It may alternatively be determined through analysis and simulation, because it is constant and characteristic for a communication signal. DASY52 uses well-defined signals for PMR calibration. The MIF of these signals has been determined by simulation and it is automatically applied.

The MIF measurement uncertainty is estimated as follows, declared by HAC equipment provider SPEAG, for modulation frequencies from slotted waveforms with fundamental frequency and at least 2 harmonics within 10 kHz:

1. 0.2 dB for MIF: -7 to +5 dB
2. 0.5 dB for MIF: -13 to +11 dB
3. 1 dB for MIF: > -20 dB

MIF values applied in this test report were provided by the HAC equipment provider of SPEAG, and the worst values for all air interface are listed below to determine the Low-power Exemption.

UID	Communication System Name	MIF(dB)
10021	GSM-FDD(TDMA,GMSK)	3.63
10025	EDGE-FDD (TDMA, 8PSK, TN 0)	3.75
10460	UMTS-FDD(WCDMA, AMR)	-25.43
10225	UMTS-FDD (HSPA+)	-20.39
10170	LTE-FDD(SC-FDMA,1RB,20MHz,16-QAM)	-9.76
10173	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	-1.44
10061	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	-2.02
10077	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	0.12
10427	IEEE 802.11n (HT Greeneld, 150 Mbps, 64-QAM)	-13.44
10069	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	-3.15
10616	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	-5.57



11. Low-power Exemption

<Max Tune-up Limit>

<Ant1>

Frequency Band		Average Power (dBm)
GSM	GSM850	33.50
	EDGE850	30.00
	GSM1900	30.50
	EDGE1900	27.50
WCDMA	Band V	24.00
	Band IV	24.00
	Band II	24.00
	HSPA	23.00
FDD LTE	Band 2	24.00
	Band 4	24.00
	Band 5	24.00
	Band 7	24.00
	Band 12	24.00
	Band 13	24.00
	Band 17	24.00
	Band 25	24.00
	Band 26	24.00
	Band 66	24.00
	Band 71	24.00
TDD LTE	Band 38	24.00
	Band 41-PC3	24.00
	Band 41-PC2	27.00

<Ant2>

Frequency Band		Average Power (dBm)
GSM	GSM850	30.00
	EDGE850	25.00
	GSM1900	24.50
	EDGE1900	21.50
WCDMA	Band V	20.50
	Band II	18.00
	HSPA	19.50
FDD LTE	Band 2	18.00
	Band 5	21.50
	Band 7	15.50
	Band 12	23.00
	Band 17	23.00
	Band 25	18.00
	Band 26	21.50
	Band 71	23.00
TDD LTE	Band 38	18.00
	Band 41-PC3	18.00
	Band 41-PC2	19.50

<Ant3>

Frequency Band		Average Power (dBm)
2.4GHz WLAN	802.11b	20.50
	802.11g	20.40
	802.11n-HT20	20.50
	802.11n-HT40	20.20

<Ant4>

Frequency Band		Average Power (dBm)
5GHz WLAN	802.11a(WLAN 5.5GHz)	20.60
	802.11a(except: WLAN 5.5GHz)	19.40
	802.11n-HT20	20.60
	802.11n-HT40	19.40
	802.11ac-VHT20	20.70
	802.11ac-VHT40	20.50
	802.11ac-VHT80	19.80

<Low Power Exemption>
<Ant1>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
GSM850	33.50	3.63	37.13	Yes
EDGE850	30.00	3.75	33.75	No ⁽¹⁾
GSM1900	30.50	3.63	34.13	Yes
EDGE1900	27.50	3.75	31.25	No ⁽¹⁾
WCDMA	24.00	-25.43	-1.43	No
WCDMA - HSPA	24.00	-20.39	3.61	No
LTE - FDD	24.00	-9.76	14.24	No
LTE – TDD-PC3	24.00	-1.44	22.56	Yes
LTE – TDD-PC2	27.00	-1.44	25.56	Yes

<Ant2>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
GSM850	30.00	3.63	33.63	Yes
EDGE850	25.00	3.75	28.75	No ⁽¹⁾
GSM1900	24.50	3.63	28.13	Yes
EDGE1900	21.50	3.75	25.25	No ⁽¹⁾
WCDMA	20.50	-25.43	-4.93	No
WCDMA - HSPA	20.50	-20.39	0.11	No
LTE - FDD	23.00	-9.76	13.24	No
LTE – TDD-PC3	18.00	-1.44	16.56	No
LTE – TDD-PC2	19.50	-1.44	18.06	Yes

<Ant3>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
802.11b	20.50	-2.02	18.48	No ⁽²⁾
802.11g	20.40	0.12	20.52	Yes
802.11n-HT20	20.50	-13.44	7.06	No
802.11n-HT40	20.20	-13.44	6.76	No

<Ant4>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
802.11a(WLAN 5.5GHz)	20.60	-3.15	17.45	Yes
802.11a(except: WLAN 5.5GHz)	19.40	-3.15	16.25	No
802.11n-HT20	20.60	-13.44	7.16	No
802.11n-HT40	19.40	-13.44	5.96	No
802.11ac-VHT20	20.70	-5.57	15.13	No
802.11ac-VHT40	20.50	-5.57	14.93	No
802.11ac-VHT80	19.80	-5.57	14.23	No

General Note:

- EDGE data modes is not necessary due to the GSM Voice mode is the worst case.
- 802.11b is not necessary due to the 802.11g is the worst case.
- According to ANSI C63.19 2011-version, for the air interface technology of a device is exempt from testing when its average antenna input power plus its MIF is ≤ 17 dBm for any of its operating modes.
- HAC RF rating is M4 for the air interface which meets the low power exemption.

12. Conducted RF Output Power (Unit: dBm)

<GSM>

ANT1:

Average Antenna Input Power(dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1 Tx slot)	31.97	32.15	32.25	29.65	29.72	29.51

ANT2:

Average Antenna Input Power(dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency (MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1 Tx slot)	28.25	28.22	28.29	23.18	23.21	22.98

<LTE>

ANT1:

Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	49	22.97	22.90	22.81

Band 41-PC3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	22.92	22.97	22.75	22.80	22.78

Band 41-PC2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	25.62	25.78	25.56	25.55	25.45

ANT2:

Band 38						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	49	17.25	17.18	17.14

Band 41-PC3								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	16.87	17.28	17.24	17.11	16.82

Band 41-PC2								
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40185	40620	41055	41490
Frequency (MHz)				2506	2549.5	2593	2636.5	2680
20	QPSK	1	49	18.22	18.60	18.56	18.54	18.15

<WLAN>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11g 6Mbps	1	2412	17.30
		6	2437	18.10
		11	2462	18.40

5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)
	802.11a 6Mbps	100	5500	18.21
		116	5580	18.36
		132	5660	18.41
		140	5700	18.68

13. HAC RF Emission Test Results

Plot No.	Air Interface	BW (MHz)	Modulation / Mode	RB Size	RB offset	Channel	Transmit Ant.	Average Antenna Input Power (dBm)	MIF	E-Field (dBV/m)	Margin to FCC M3 limit (dB)	E-Field M Rating
01	GSM850	-	GSM Voice	-	-	128	Ant 1	31.97	3.63	39.04	5.96	M4
02	GSM850	-	GSM Voice	-	-	189	Ant 1	32.15	3.63	38.87	6.13	M4
03	GSM850	-	GSM Voice	-	-	251	Ant 1	32.25	3.63	38.81	6.19	M4
04	GSM850	-	GSM Voice	-	-	128	Ant 2	28.25	3.63	39.89	5.11	M4
05	GSM850	-	GSM Voice	-	-	189	Ant 2	28.22	3.63	39.94	5.06	M4
06	GSM850	-	GSM Voice	-	-	251	Ant 2	28.29	3.63	40.02	4.98	M3
07	GSM1900	-	GSM Voice	-	-	512	Ant 1	29.65	3.63	33.16	1.84	M3
08	GSM1900	-	GSM Voice	-	-	661	Ant 1	29.72	3.63	33.82	1.18	M3
09	GSM1900	-	GSM Voice	-	-	810	Ant 1	29.51	3.63	33.38	1.62	M3
10	GSM1900	-	GSM Voice	-	-	512	Ant 2	23.18	3.63	30.44	4.56	M3
11	GSM1900	-	GSM Voice	-	-	661	Ant 2	23.21	3.63	29.88	5.12	M4
12	GSM1900	-	GSM Voice	-	-	810	Ant 2	22.98	3.63	28.95	6.05	M4
13	LTE Band 41-PC3	20M	QPSK	1	49	39750	ANT 1	22.92	-1.44	25.23	9.77	M4
14	LTE Band 41-PC3	20M	QPSK	1	49	40185	ANT 1	22.97	-1.44	24.97	10.03	M4
15	LTE Band 41-PC3	20M	QPSK	1	49	40620	ANT 1	22.75	-1.44	25.36	9.64	M4
16	LTE Band 41-PC3	20M	QPSK	1	49	41055	ANT 1	22.80	-1.44	25.56	9.44	M4
17	LTE Band 41-PC3	20M	QPSK	1	49	41490	ANT 1	22.78	-1.44	25.31	9.69	M4
18	LTE Band 41-PC2	20M	QPSK	1	49	39750	ANT 1	25.62	-1.44	25.98	9.02	M4
19	LTE Band 41-PC2	20M	QPSK	1	49	40185	ANT 1	25.78	-1.44	26.43	8.57	M4
20	LTE Band 41-PC2	20M	QPSK	1	49	40620	ANT 1	25.56	-1.44	26.52	8.48	M4
21	LTE Band 41-PC2	20M	QPSK	1	49	41055	ANT 1	25.55	-1.44	26.33	8.67	M4
22	LTE Band 41-PC2	20M	QPSK	1	49	41490	ANT 1	25.45	-1.44	26.27	8.73	M4
23	LTE Band 41-PC2	20M	QPSK	1	49	39750	ANT 2	18.22	-1.44	29.21	5.79	M4
24	LTE Band 41-PC2	20M	QPSK	1	49	40185	ANT 2	18.6	-1.44	28.79	6.21	M4
25	LTE Band 41-PC2	20M	QPSK	1	49	40620	ANT 2	18.56	-1.44	28.65	6.35	M4
26	LTE Band 41-PC2	20M	QPSK	1	49	41055	ANT 2	18.54	-1.44	28.26	6.74	M4
27	LTE Band 41-PC2	20M	QPSK	1	49	41490	ANT 2	18.15	-1.44	28.23	6.77	M4
28	WLAN2.4GHz	-	802.11g 6Mbps	-	-	1	Ant 3	17.30	0.12	31.07	3.93	M3
29	WLAN2.4GHz	-	802.11g 6Mbps	-	-	6	Ant 3	18.10	0.12	30.83	4.17	M3
30	WLAN2.4GHz	-	802.11g 6Mbps	-	-	11	Ant 3	18.40	0.12	31.95	3.05	M3
31	WLAN5.5GHz	-	802.11a 6Mbps	-	-	100	Ant 4	18.21	-3.15	24.53	10.47	M4
32	WLAN5.5GHz	-	802.11a 6Mbps	-	-	116	Ant 4	18.36	-3.15	27.32	7.68	M4
33	WLAN5.5GHz	-	802.11a 6Mbps	-	-	132	Ant 4	18.41	-3.15	27.02	7.98	M4
34	WLAN5.5GHz	-	802.11a 6Mbps	-	-	140	Ant 4	18.68	-3.15	26.68	8.32	M4

Remark:

- The HAC measurement system applies MIF value onto the measured RMS E-field, which is indirect method in ANSI C63.19 2011 version, and reports the RF audio interference level.
- Phone Condition: Mute on; Backlight off; Max Volume

Test Engineer : David Dai

14. Uncertainty Assessment

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual “root-sum-squares” (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances. Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is showed in Table 14.1.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

Error Description	Uncertainty Value (±%)	Probability	Divisor	(Ci) E	(Ci) H	Standard Uncertainty (E) (±%)
Measurement System						
Probe Calibration	5.1	N	1	1	1	5.1
Axial Isotropy	4.7	R	1.732	1	1	2.7
Sensor Displacement	16.5	R	1.732	1	0.145	9.5
Boundary Effects	2.4	R	1.732	1	1	1.4
Phantom Boundary Effect	7.2	R	1.732	1	0	4.2
Linearity	4.7	R	1.732	1	1	2.7
Scaling with PMR calibration	10.0	R	1.732	1	1	5.8
System Detection Limit	1.0	R	1.732	1	1	0.6
Readout Electronics	0.3	N	1	1	1	0.3
Response Time	2.6	R	1.732	1	1	1.5
Integration Time	2.6	R	1.732	1	1	1.5
RF Ambient Conditions	3.0	R	1.732	1	1	1.7
RF Reflections	12.0	R	1.732	1	1	6.9
Probe Positioner	1.2	R	1.732	1	0.67	0.7
Probe Positioning	4.7	R	1.732	1	0.67	2.7
Extrap. and Interpolation	1.0	R	1.732	1	1	0.6
Test Sample Related						
Device Positioning Vertical	4.7	R	1.732	1	0.67	2.7
Device Positioning Lateral	1.0	R	1.732	1	1	0.6
Device Holder and Phantom	2.4	R	1.732	1	1	1.4
Power Drift	5.0	R	1.732	1	1	2.9
Phantom and Setup Related						
Phantom Thickness	2.4	R	1.732	1	0.67	1.4
Combined Std. Uncertainty						16.4%
Coverage Factor for 95 %						K=2
Expanded STD Uncertainty						32.7%

Table 14.1 Uncertainty Budget of HAC free field assessment



15. References

- [1] ANSI C63.19-2011, "American National Standard for Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids", 27 May 2011.
- [2] FCC KDB 285076 D01v05r01, "Equipment Authorization Guidance for Hearing Aid Compatibility", Apr 06, 2020
- [3] FCC KDB 285076 D02 v03r01, "Guidance for performing T-Coil tests for air interfaces supporting voice over IP (e.g., LTE and WiFi) to support CMRS based telephone services", Apr 20, 2021
- [4] SPEAG DASY System Handbook

-----THE END-----



Appendix A. Plots of System Performance Check

The plots are shown as follows.

HAC_E_Dipole_835**DUT: HAC-Dipole 835 MHz**

Communication System: UID 0, CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD835 = 15mm/Hearing Aid Compatibility Test at 15mm distance (41x361x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 129.9 V/m; Power Drift = 0.13 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 121.6 V/m

Average value of Total=(121.6+117.1)/2=119.35 V/m

PMF scaled E-field

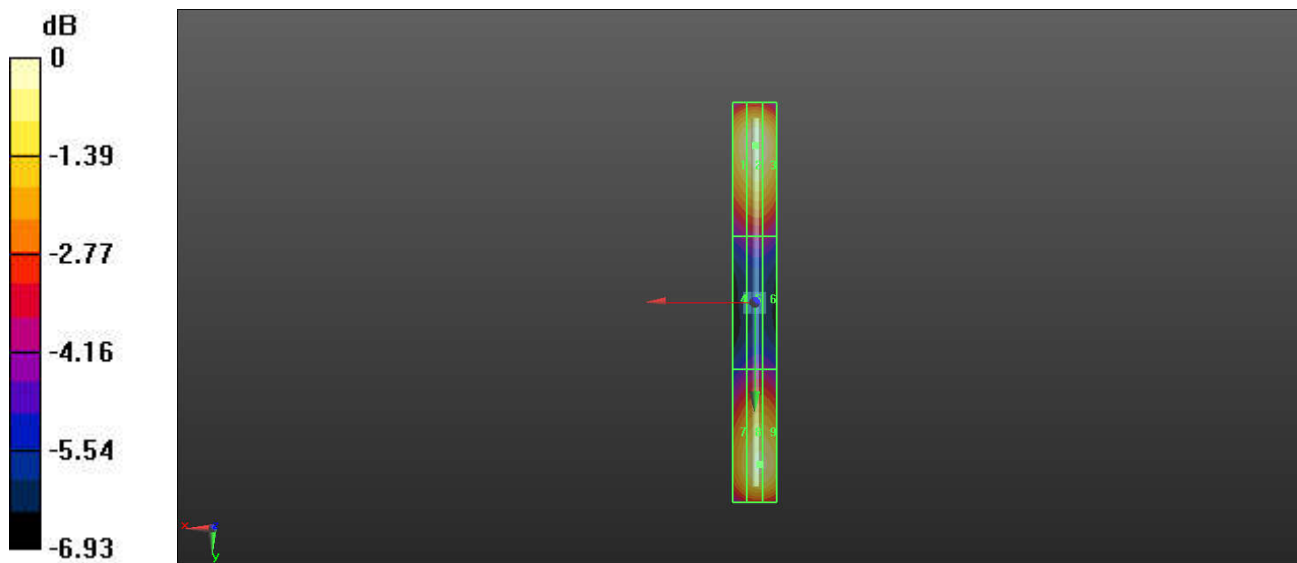
Grid 1 M4 117.6 V/m	Grid 2 M4 121.6 V/m	Grid 3 M4 120.2 V/m
Grid 4 M4 75.95 V/m	Grid 5 M4 78.21 V/m	Grid 6 M4 77.83 V/m
Grid 7 M4 109.8 V/m	Grid 8 M4 117.1 V/m	Grid 9 M4 117.0 V/m

Cursor:

Total = 121.6 V/m

E Category: M4

Location: -0.5, -70.5, 8.7 mm



0 dB = 121.6 V/m = 41.70 dBV/m

HAC_E_Dipole_1880**DUT: HAC-Dipole 1880 MHz**

Communication System: UID 0, CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD1880

=15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated

grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 146.8 V/m; Power Drift = -0.04 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 101.0 V/m

Average value of Total=(101+95.28)/2=98.14 V/m

PMF scaled E-field

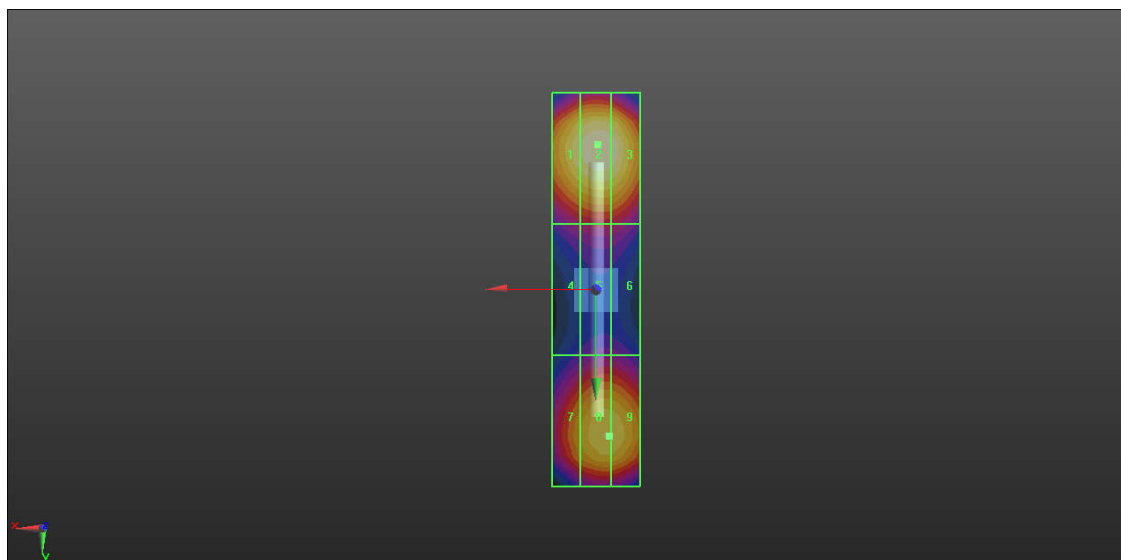
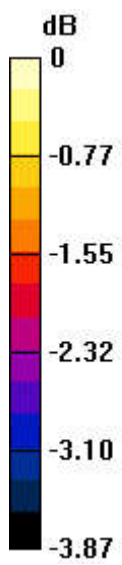
Grid 1 M3 97.94 V/m	Grid 2 M3 101.0 V/m	Grid 3 M3 99.76 V/m
Grid 4 M3 79.12 V/m	Grid 5 M3 80.72 V/m	Grid 6 M3 80.31 V/m
Grid 7 M3 90.04 V/m	Grid 8 M3 95.28 V/m	Grid 9 M3 95.21 V/m

Cursor:

Total = 101.0 V/m

E Category: M3

Location: -0.5, -33, 8.7 mm



0 dB = 101.0 V/m = 40.09 dBV/m

HAC_E_Dipole_2450**DUT: HAC-Dipole 2450 MHz**

Communication System: UID 0, CW; Frequency: 2450 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD2450

=15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated

grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 85.67 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 99.40 V/m

Average value of Total=(99.4+97.1)/2=98.25 V/m

PMF scaled E-field

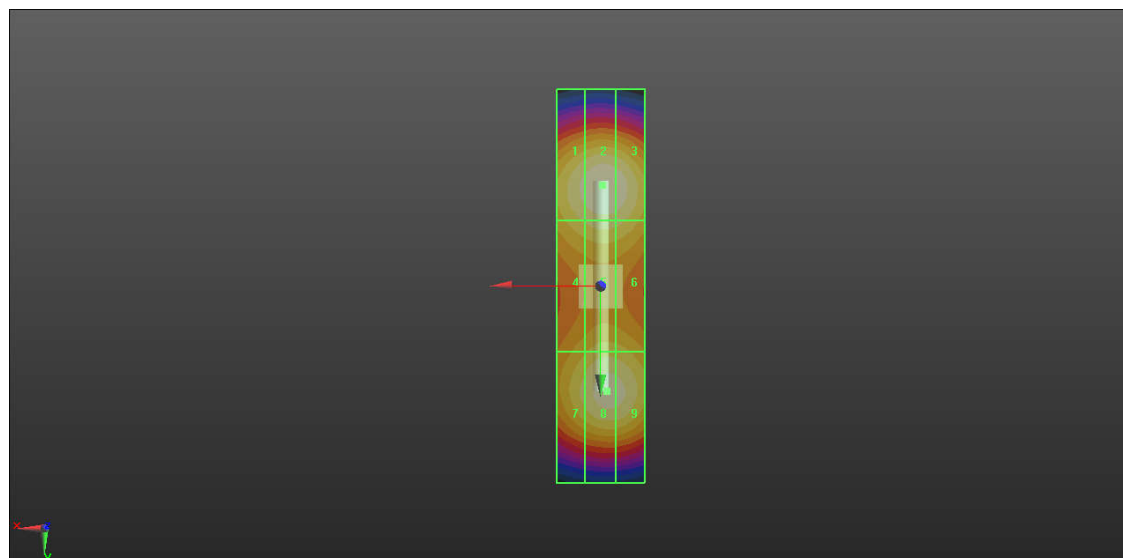
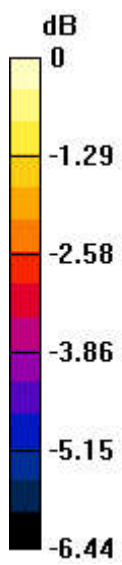
Grid 1 M3 96.33 V/m	Grid 2 M3 99.40 V/m	Grid 3 M3 98.22 V/m
Grid 4 M3 90.77 V/m	Grid 5 M3 92.94 V/m	Grid 6 M3 92.03 V/m
Grid 7 M3 92.05 V/m	Grid 8 M3 97.10 V/m	Grid 9 M3 96.65 V/m

Cursor:

Total = 99.40 V/m

E Category: M3

Location: -0.5, -23, 8.7 mm



0 dB = 99.40 V/m = 39.95 dBV/m

HAC_E_Dipole_2600**DUT: HAC Dipole 2600 MHz**

Communication System: UID 0, CW (0); Frequency: 2600 MHz;Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3-SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD2600 =

15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 73.73 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 88.55 V/m

Average value of Total=(87.19+88.55)/2 = 87.87 V/m

PMF scaled E-field

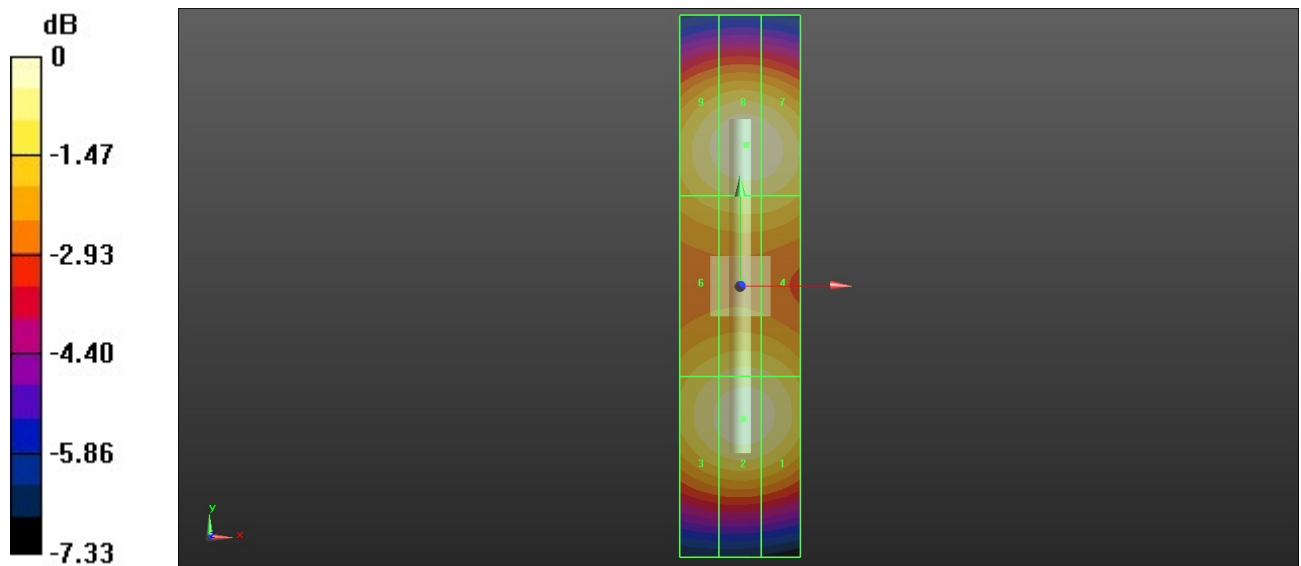
Grid 1 M3 86.15 V/m	Grid 2 M3 87.19 V/m	Grid 3 M3 84.88 V/m
Grid 4 M3 80.85 V/m	Grid 5 M3 81.45 V/m	Grid 6 M3 79.78 V/m
Grid 7 M3 87.76 V/m	Grid 8 M3 88.55 V/m	Grid 9 M3 85.73 V/m

Cursor:

Total = 88.55 V/m

E Category: M3

Location: 1, 23.5, 9.7 mm



0 dB = 88.55 V/m = 38.94 dBV/m

HAC_E_Dipole_5500**DUT: HAC-Dipole 5500 MHz**

Communication System: UID 0, CW (0); Frequency: 5500 MHz; Duty Cycle: 1:1

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

E Scan - measurement distance from the probe sensor center to CD5500

=15mm/Hearing Aid Compatibility Test at 15mm distance (41x181x1): Interpolated

grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 37.61 V/m; Power Drift = -0.03 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 116.4 V/m

Average value of Total=(112.8+113.6)/2=113.2 V/m

PMF scaled E-field

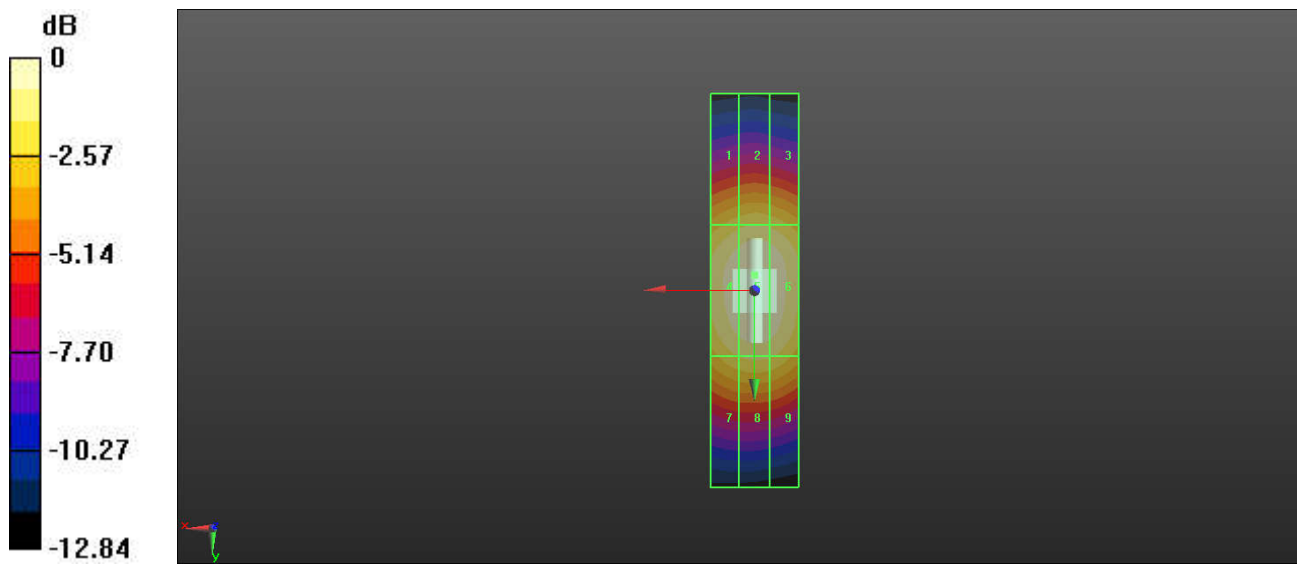
Grid 1 M3 92.83 V/m	Grid 2 M3 96.17 V/m	Grid 3 M3 94.11 V/m
Grid 4 M2 112.8 V/m	Grid 5 M2 116.4 V/m	Grid 6 M2 113.6 V/m
Grid 7 M3 95.95 V/m	Grid 8 M3 98.62 V/m	Grid 9 M3 97.08 V/m

Cursor:

Total = 116.4 V/m

E Category: M2

Location: 0, -3.5, 8.7 mm



0 dB = 116.4 V/m = 41.33 dBV/m



Appendix B. Plots of RF Emission Measurement

The plots are shown as follows.

01_HAC RF_GSM850_GSM Voice_Ch128_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch128/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 78.76 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.04 dBV/m

Emission category: M4

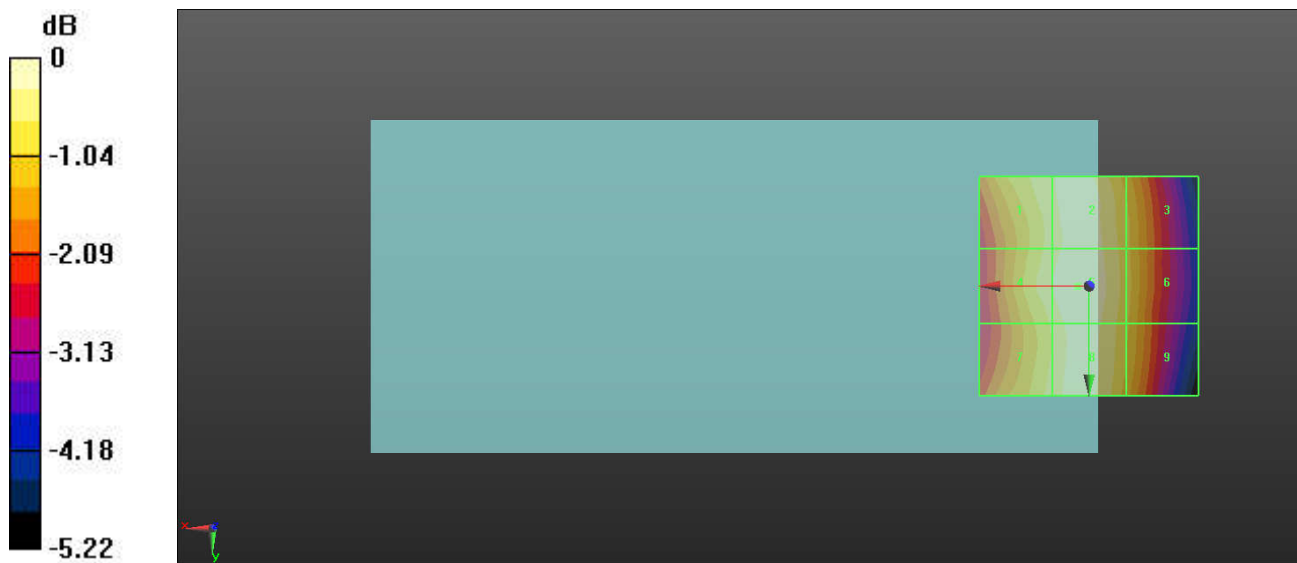
MIF scaled E-field

Grid 1 M4 38.66 dBV/m	Grid 2 M4 38.89 dBV/m	Grid 3 M4 38.13 dBV/m
Grid 4 M4 38.71 dBV/m	Grid 5 M4 39.04 dBV/m	Grid 6 M4 38.19 dBV/m
Grid 7 M4 38.5 dBV/m	Grid 8 M4 38.86 dBV/m	Grid 9 M4 38.09 dBV/m

Total = 39.04 dBV/m

E Category: M4

Location: 2.5, 0, 7.7 mm



0 dB = 89.56 V/m = 39.04 dBV/m

02_HAC RF_GSM850_GSM Voice_Ch189_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 836.4 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch189/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 76.56 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.87 dBV/m

Emission category: M4

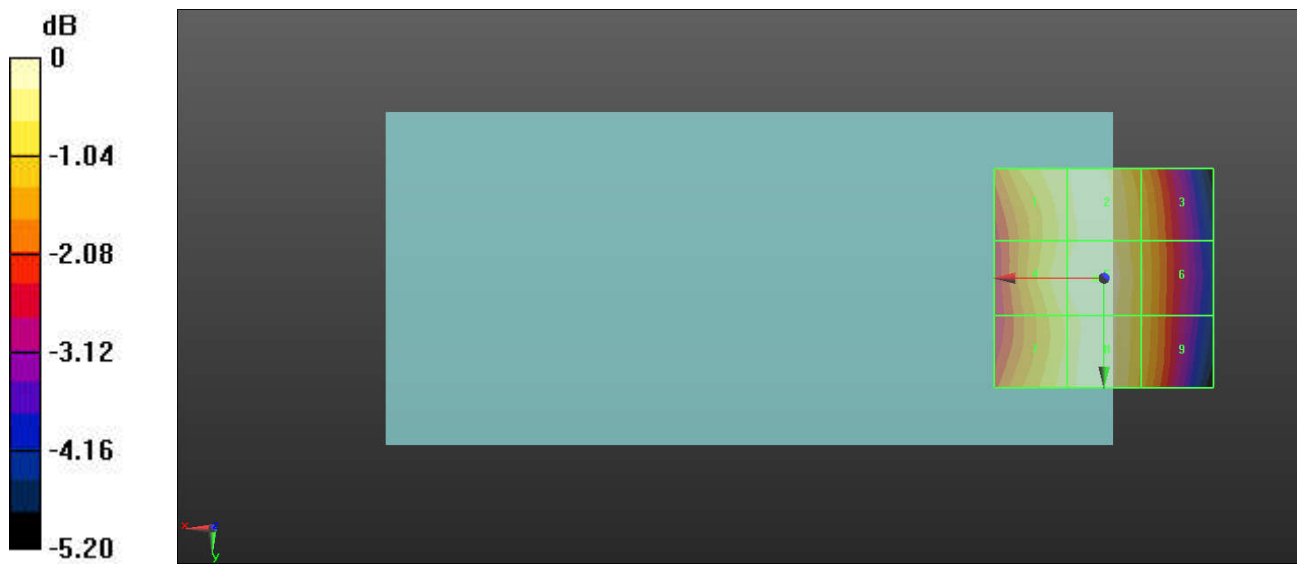
MIF scaled E-field

Grid 1 M4 38.52 dBV/m	Grid 2 M4 38.71 dBV/m	Grid 3 M4 37.85 dBV/m
Grid 4 M4 38.57 dBV/m	Grid 5 M4 38.87 dBV/m	Grid 6 M4 37.94 dBV/m
Grid 7 M4 38.4 dBV/m	Grid 8 M4 38.74 dBV/m	Grid 9 M4 37.89 dBV/m

Total = 38.87 dBV/m

E Category: M4

Location: 2, 0, 7.7 mm



0 dB = 87.84 V/m = 38.87 dBV/m

03_HAC RF_GSM850_GSM Voice_Ch251_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 848.8 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch251/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 76.29 V/m; Power Drift = -0.06 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.81 dBV/m

Emission category: M4

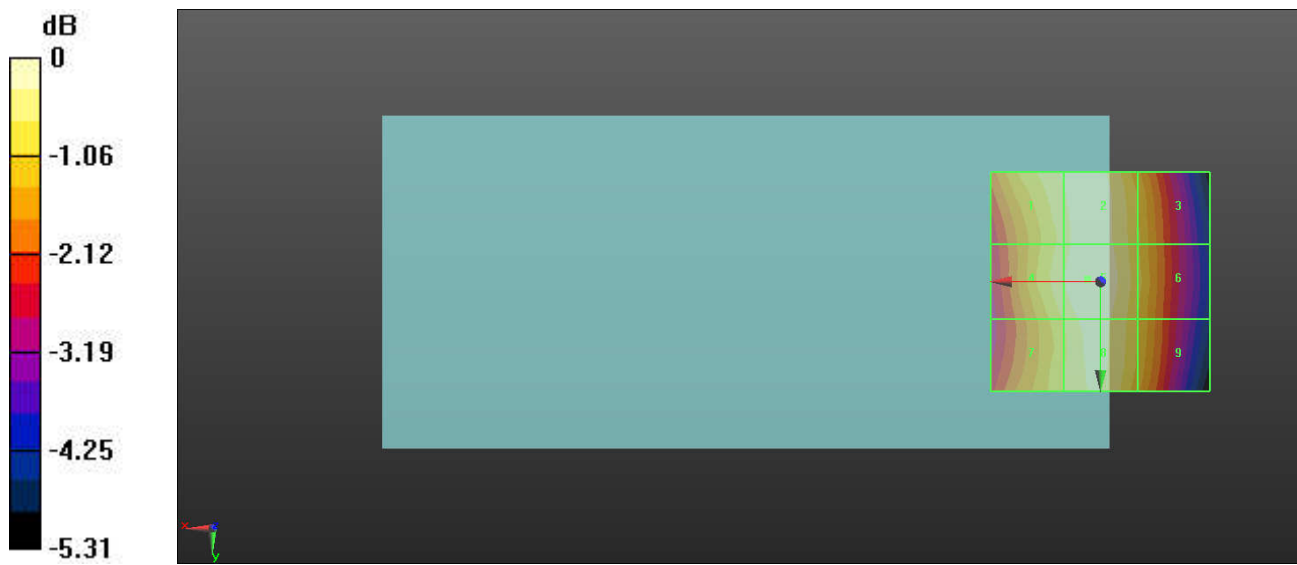
MIF scaled E-field

Grid 1 M4 38.5 dBV/m	Grid 2 M4 38.7 dBV/m	Grid 3 M4 37.83 dBV/m
Grid 4 M4 38.43 dBV/m	Grid 5 M4 38.81 dBV/m	Grid 6 M4 37.9 dBV/m
Grid 7 M4 38.13 dBV/m	Grid 8 M4 38.59 dBV/m	Grid 9 M4 37.79 dBV/m

Total = 38.81 dBV/m

E Category: M4

Location: 3, -0.5, 7.7 mm



0 dB = 87.19 V/m = 38.81 dBV/m

04_HAC RF_GSM850_GSM Voice_Ch128_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch128/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 111.9 V/m; Power Drift = -0.06 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.89 dBV/m

Emission category: M4

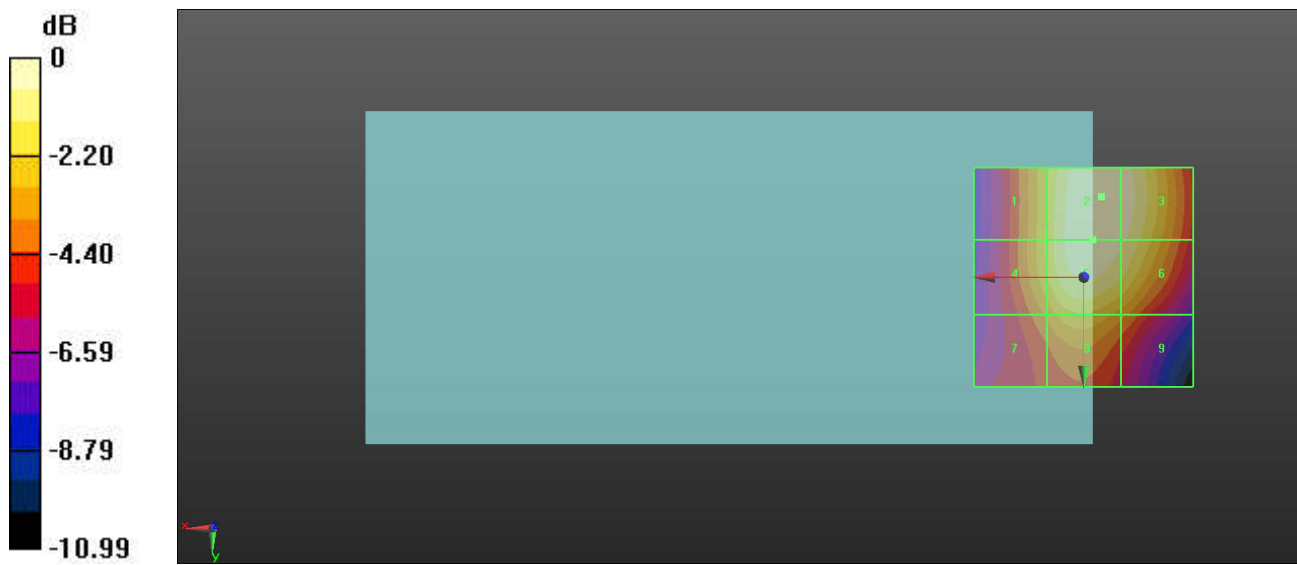
MIF scaled E-field

Grid 1 M4 37.81 dBV/m	Grid 2 M4 39.89 dBV/m	Grid 3 M4 39.7 dBV/m
Grid 4 M4 37.82 dBV/m	Grid 5 M4 39.75 dBV/m	Grid 6 M4 39.33 dBV/m
Grid 7 M4 36.4 dBV/m	Grid 8 M4 37.65 dBV/m	Grid 9 M4 36.58 dBV/m

Total = 39.89 dBV/m

E Category: M4

Location: -4, -18.5, 7.7 mm



0 dB = 98.75 V/m = 39.89 dBV/m

05_HAC RF_GSM850_GSM Voice_Ch189_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 836.4 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch189/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 109.9 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 39.94 dBV/m

Emission category: M4

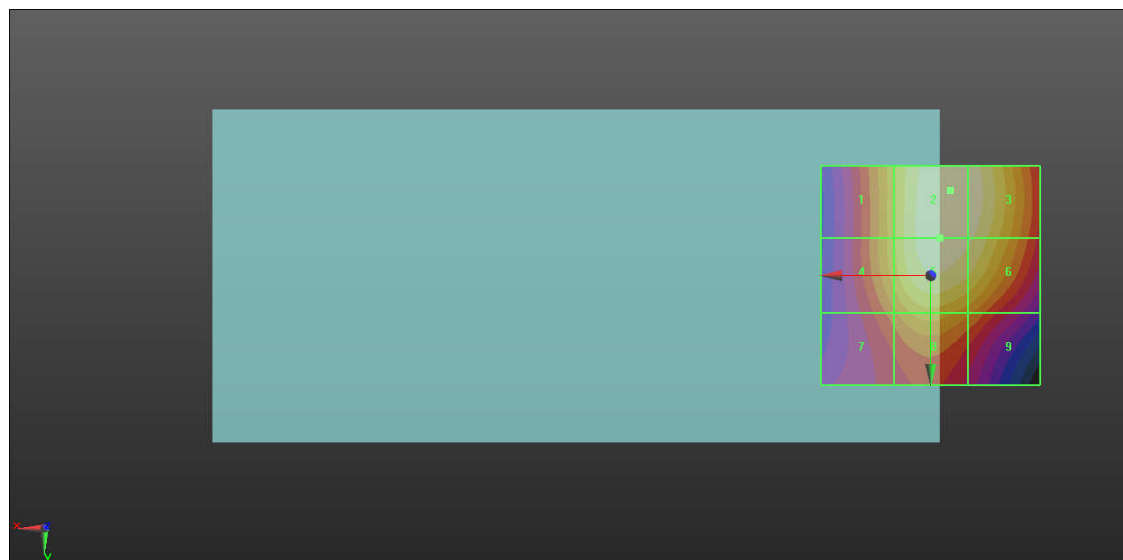
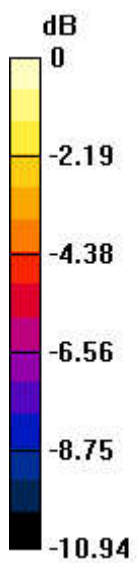
MIF scaled E-field

Grid 1 M4 37.59 dBV/m	Grid 2 M4 39.94 dBV/m	Grid 3 M4 39.77 dBV/m
Grid 4 M4 37.61 dBV/m	Grid 5 M4 39.73 dBV/m	Grid 6 M4 39.38 dBV/m
Grid 7 M4 36.06 dBV/m	Grid 8 M4 37.47 dBV/m	Grid 9 M4 36.54 dBV/m

Total = 39.94 dBV/m

E Category: M4

Location: -4.5, -19.5, 7.7 mm



0 dB = 99.29 V/m = 39.94 dBV/m

06_HAC RF_GSM850_GSM Voice_Ch251_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 848.8 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch251/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 109.1 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 40.02 dBV/m

Emission category: M3

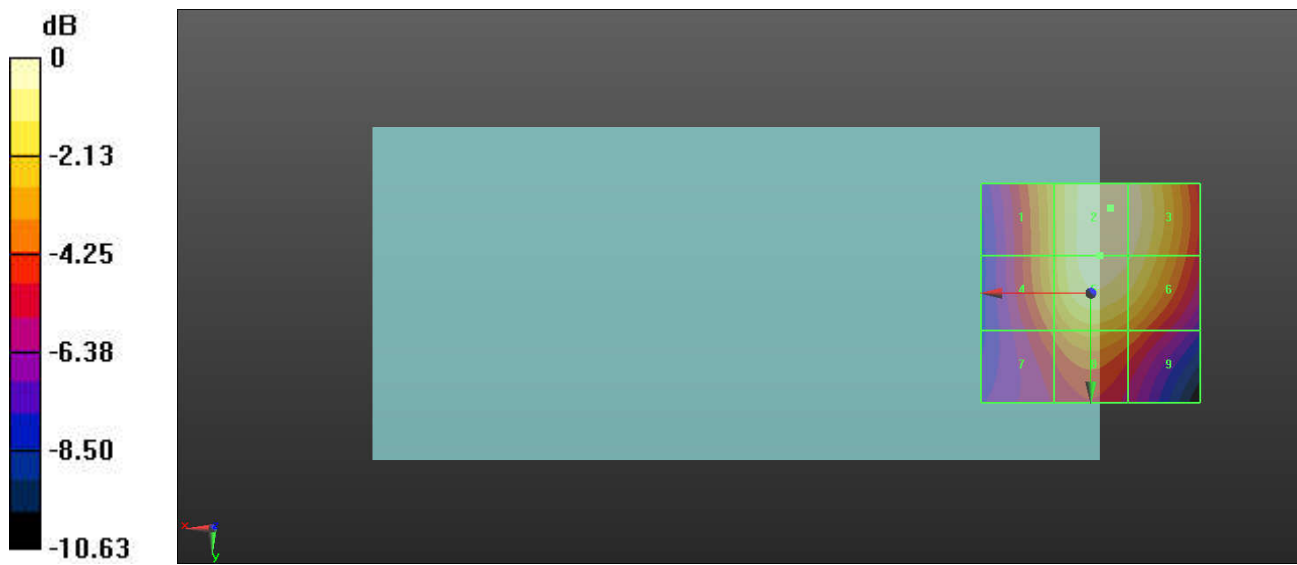
MIF scaled E-field

Grid 1 M4 37.75 dBV/m	Grid 2 M3 40.02 dBV/m	Grid 3 M4 39.86 dBV/m
Grid 4 M4 37.65 dBV/m	Grid 5 M4 39.8 dBV/m	Grid 6 M4 39.45 dBV/m
Grid 7 M4 36.09 dBV/m	Grid 8 M4 37.54 dBV/m	Grid 9 M4 36.67 dBV/m

Total = 40.02 dBV/m

E Category: M3

Location: -4.5, -19.5, 7.7 mm



0 dB = 100.2 V/m = 40.02 dBV/m

07_HAC RF_GSM1900_GSM Voice_Ch512_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch512/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.35 V/m; Power Drift = 0.08 dB

Applied MIF = 3.63 dB

RF audio interference level = 33.16 dBV/m

Emission category: M3

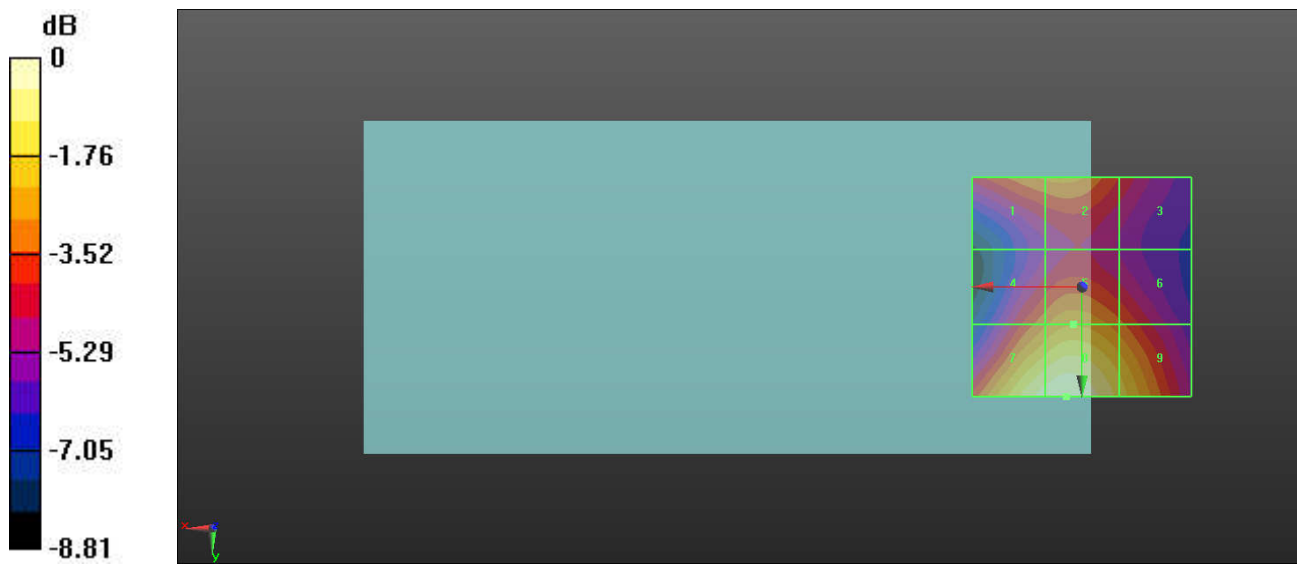
MIF scaled E-field

Grid 1 M3 30.35 dBV/m	Grid 2 M3 30.46 dBV/m	Grid 3 M4 29.07 dBV/m
Grid 4 M3 30.14 dBV/m	Grid 5 M3 30.77 dBV/m	Grid 6 M4 29.86 dBV/m
Grid 7 M3 32.89 dBV/m	Grid 8 M3 33.16 dBV/m	Grid 9 M3 31.77 dBV/m

Total = 33.16 dBV/m

E Category: M3

Location: 3.5, 25, 7.7 mm



0 dB = 45.50 V/m = 33.16 dBV/m

08_HAC RF_GSM1900_GSM Voice_Ch661_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch661/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 25.01 V/m; Power Drift = 0.08 dB

Applied MIF = 3.63 dB

RF audio interference level = 33.82 dBV/m

Emission category: M3

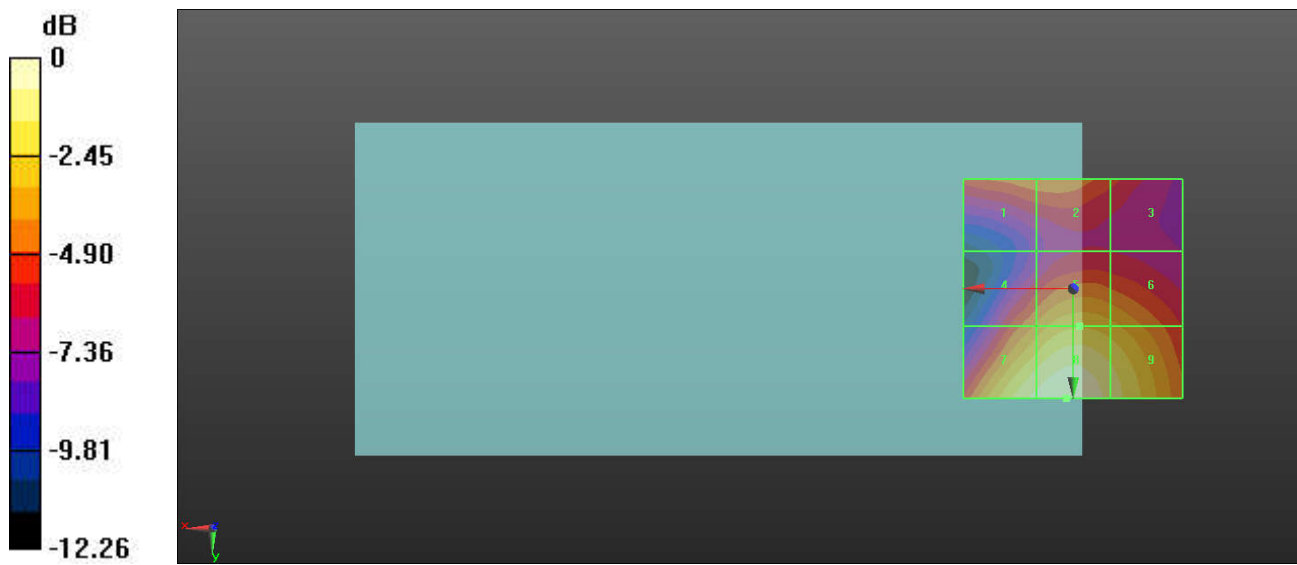
MIF scaled E-field

Grid 1 M4 29.67 dBV/m	Grid 2 M4 29.76 dBV/m	Grid 3 M4 28.48 dBV/m
Grid 4 M4 29.92 dBV/m	Grid 5 M3 31.31 dBV/m	Grid 6 M3 30.84 dBV/m
Grid 7 M3 33.3 dBV/m	Grid 8 M3 33.82 dBV/m	Grid 9 M3 32.69 dBV/m

Total = 33.82 dBV/m

E Category: M3

Location: 1.5, 25, 7.7 mm



09_HAC RF_GSM1900_GSM Voice_Ch810_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch810/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 22.31 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 33.38 dBV/m

Emission category: M3

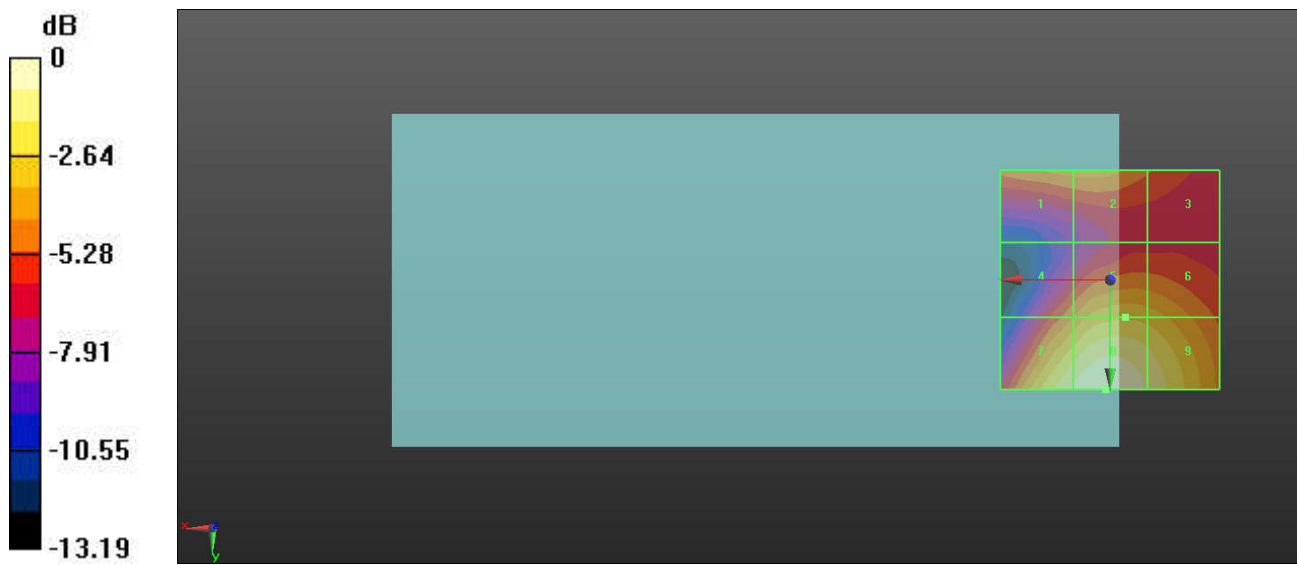
MIF scaled E-field

Grid 1 M4 29.38 dBV/m	Grid 2 M4 29.41 dBV/m	Grid 3 M4 28.25 dBV/m
Grid 4 M4 29.01 dBV/m	Grid 5 M3 30.64 dBV/m	Grid 6 M3 30.4 dBV/m
Grid 7 M3 32.67 dBV/m	Grid 8 M3 33.38 dBV/m	Grid 9 M3 32.43 dBV/m

Total = 33.38 dBV/m

E Category: M3

Location: 1, 25, 7.7 mm



0 dB = 46.65 V/m = 33.38 dBV/m

10_HAC RF_GSM1900_GSM Voice_Ch512_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch512/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 32.45 V/m; Power Drift = 0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.44 dBV/m

Emission category: M3

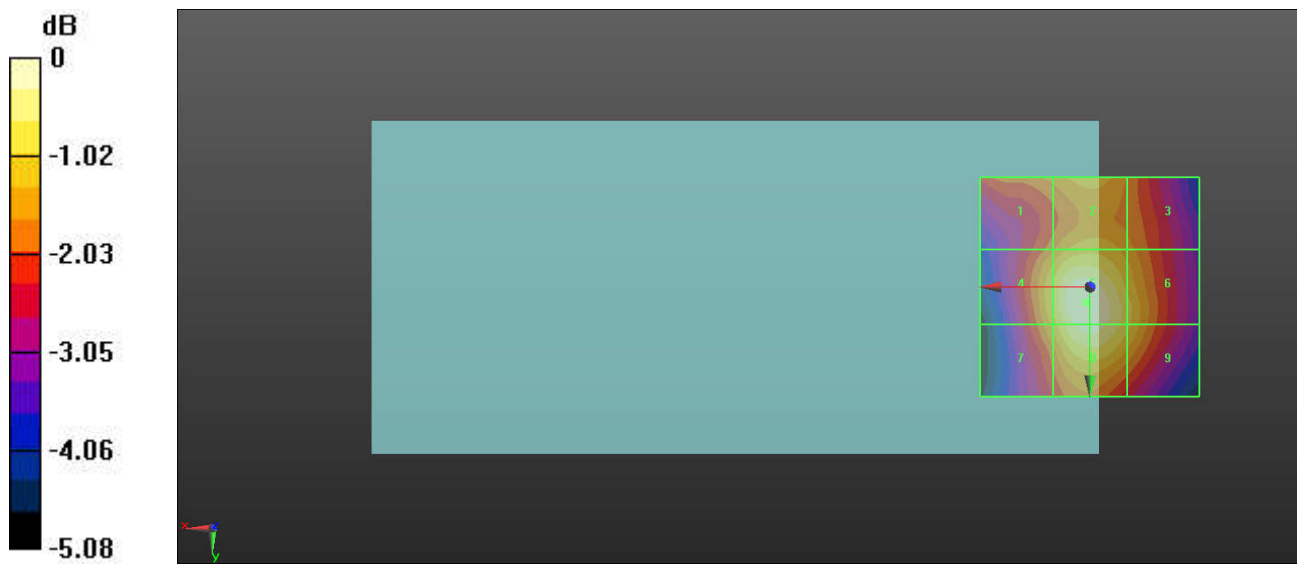
MIF scaled E-field

Grid 1 M4 28.9 dBV/m	Grid 2 M4 29.33 dBV/m	Grid 3 M4 28.92 dBV/m
Grid 4 M4 29.5 dBV/m	Grid 5 M3 30.44 dBV/m	Grid 6 M4 29.58 dBV/m
Grid 7 M4 29.2 dBV/m	Grid 8 M3 30.27 dBV/m	Grid 9 M4 29.52 dBV/m

Total = 30.44 dBV/m

E Category: M3

Location: 1, 3.5, 7.7 mm



0 dB = 33.25 V/m = 30.44 dBV/m

11_HAC RF_GSM1900_GSM Voice_Ch661_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch661/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.07 V/m; Power Drift = 0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 29.88 dBV/m

Emission category: M4

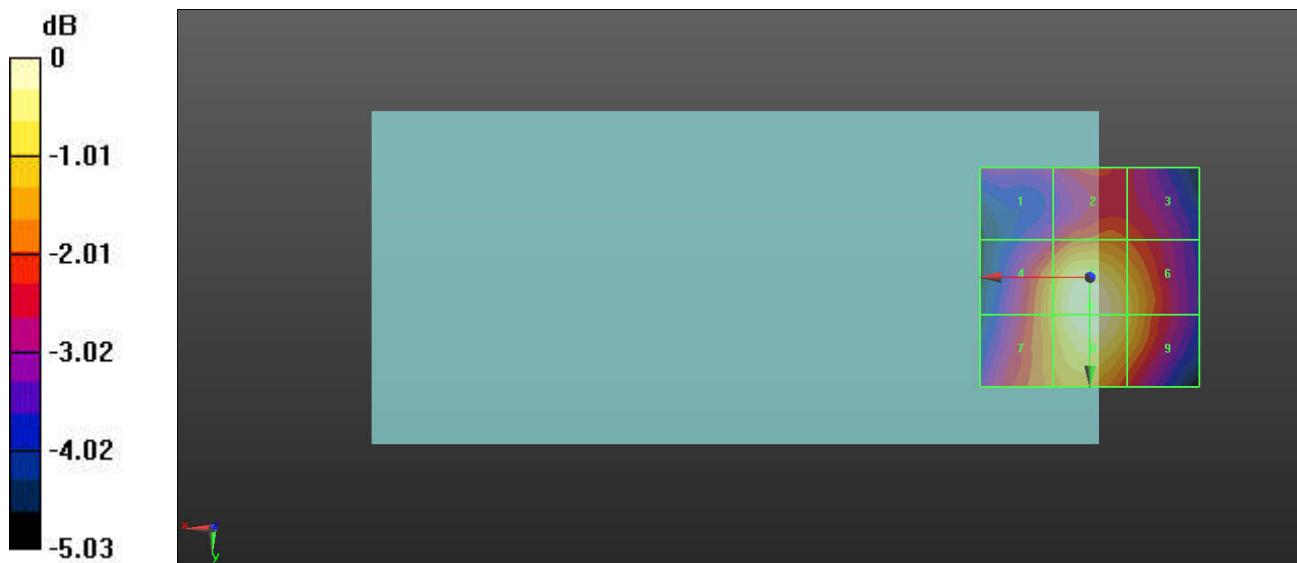
MIF scaled E-field

Grid 1 M4 27.12 dBV/m	Grid 2 M4 28.13 dBV/m	Grid 3 M4 27.89 dBV/m
Grid 4 M4 28.8 dBV/m	Grid 5 M4 29.88 dBV/m	Grid 6 M4 29.04 dBV/m
Grid 7 M4 28.78 dBV/m	Grid 8 M4 29.83 dBV/m	Grid 9 M4 29.04 dBV/m

Total = 29.88 dBV/m

E Category: M4

Location: 0, 6.5, 7.7 mm



0 dB = 31.19 V/m = 29.88 dBV/m

12_HAC RF_GSM1900_GSM Voice_Ch810_E

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz; Duty Cycle: 1:8.69961

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch810/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 27.06 V/m; Power Drift = 0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 28.95 dBV/m

Emission category: M4

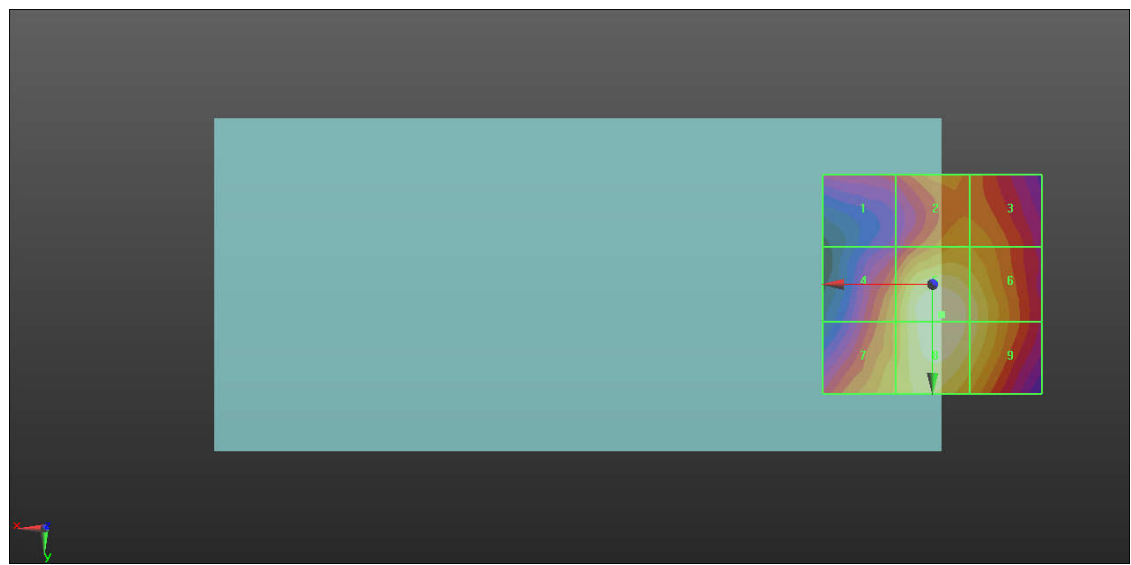
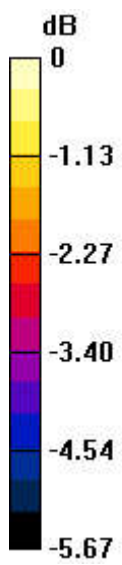
MIF scaled E-field

Grid 1 M4 26.29 dBV/m	Grid 2 M4 27.48 dBV/m	Grid 3 M4 27.45 dBV/m
Grid 4 M4 27.55 dBV/m	Grid 5 M4 28.95 dBV/m	Grid 6 M4 28.47 dBV/m
Grid 7 M4 27.87 dBV/m	Grid 8 M4 28.94 dBV/m	Grid 9 M4 28.45 dBV/m

Total = 28.95 dBV/m

E Category: M4

Location: -2, 7, 7.7 mm



0 dB = 28.03 V/m = 28.95 dBV/m

13_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch39750_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 20.09 V/m; Power Drift = -0.04 dB

Applied MIF = -1.44 dB

RF audio interference level = 25.23 dBV/m

Emission category: M4

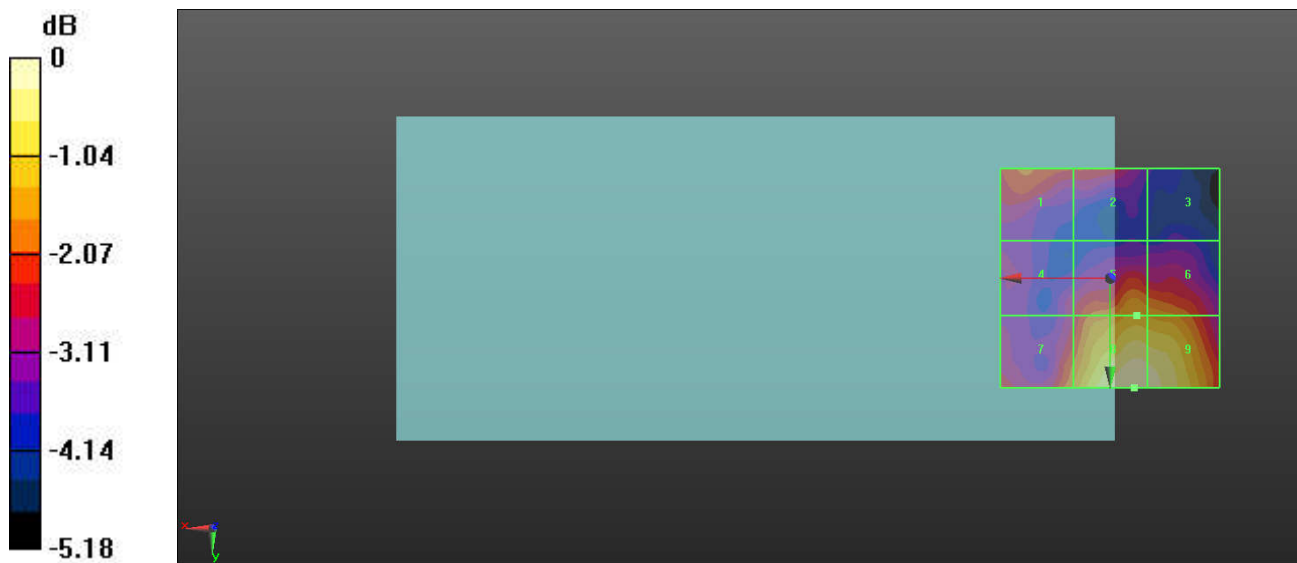
MIF scaled E-field

Grid 1 M4 23.25 dBV/m	Grid 2 M4 22.92 dBV/m	Grid 3 M4 21.61 dBV/m
Grid 4 M4 22.45 dBV/m	Grid 5 M4 23.94 dBV/m	Grid 6 M4 23.83 dBV/m
Grid 7 M4 23.6 dBV/m	Grid 8 M4 25.23 dBV/m	Grid 9 M4 25.08 dBV/m

Total = 25.23 dBV/m

E Category: M4

Location: -5.5, 25, 7.7 mm



0 dB = 18.27 V/m = 25.23 dBV/m

14_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40185_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40185/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 18.66 V/m; Power Drift = 0.05 dB

Applied MIF = -1.44 dB

RF audio interference level = 24.97 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 22.82 dBV/m	Grid 2 M4 22.72 dBV/m	Grid 3 M4 21.4 dBV/m
Grid 4 M4 21.76 dBV/m	Grid 5 M4 23.68 dBV/m	Grid 6 M4 23.55 dBV/m
Grid 7 M4 22.77 dBV/m	Grid 8 M4 24.97 dBV/m	Grid 9 M4 24.8 dBV/m

Total = 24.97 dBV/m

E Category: M4

Location: -5.5, 25, 7.7 mm



0 dB = 17.73 V/m = 24.97 dBV/m

15_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch40620_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40620/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.51 V/m; Power Drift = -0.07 dB

Applied MIF = -1.44 dB

RF audio interference level = 25.36 dBV/m

Emission category: M4

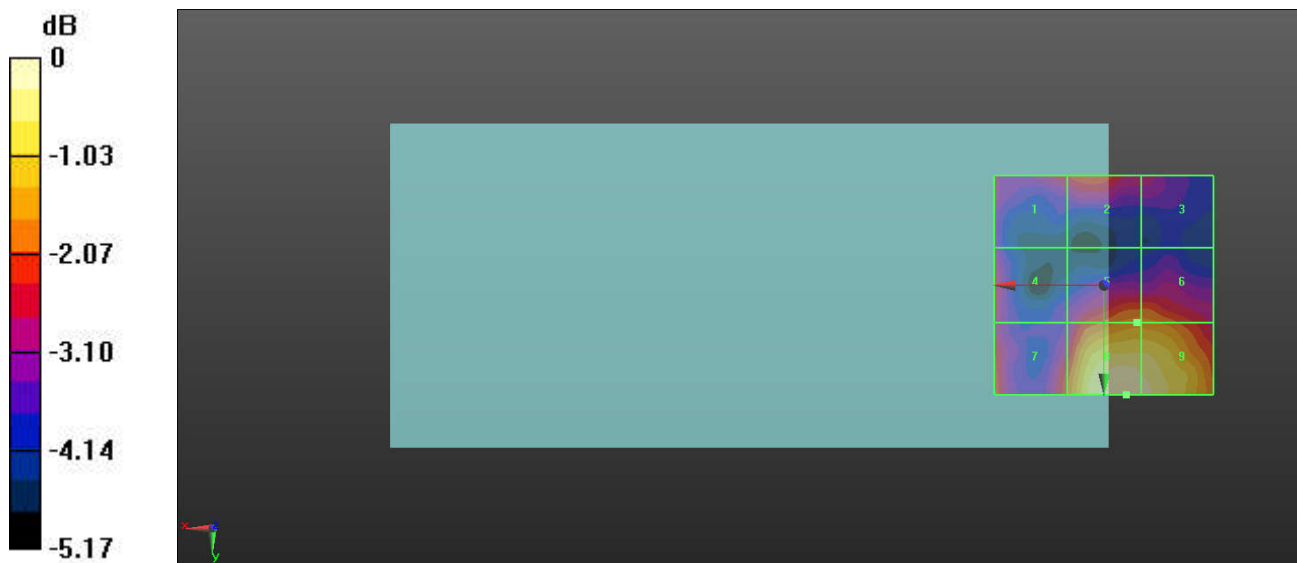
MIF scaled E-field

Grid 1 M4 22.98 dBV/m	Grid 2 M4 23.26 dBV/m	Grid 3 M4 22.59 dBV/m
Grid 4 M4 22.89 dBV/m	Grid 5 M4 23.8 dBV/m	Grid 6 M4 23.79 dBV/m
Grid 7 M4 23.46 dBV/m	Grid 8 M4 25.36 dBV/m	Grid 9 M4 25.19 dBV/m

Total = 25.36 dBV/m

E Category: M4

Location: -5, 25, 7.7 mm



0 dB = 18.53 V/m = 25.36 dBV/m

16_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch41055_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2636.5 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41055/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 18.70 V/m; Power Drift = -0.08 dB

Applied MIF = -1.44 dB

RF audio interference level = 25.56 dBV/m

Emission category: M4

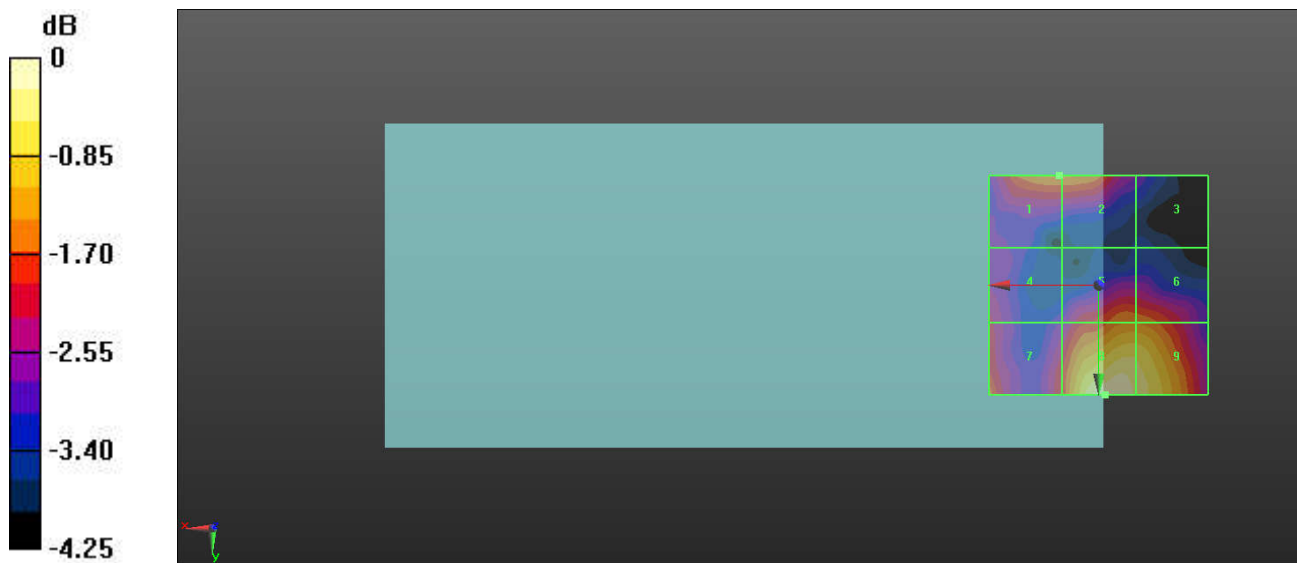
MIF scaled E-field

Grid 1 M4 24.22 dBV/m	Grid 2 M4 24.22 dBV/m	Grid 3 M4 22.77 dBV/m
Grid 4 M4 23.42 dBV/m	Grid 5 M4 24.17 dBV/m	Grid 6 M4 24.16 dBV/m
Grid 7 M4 24.09 dBV/m	Grid 8 M4 25.56 dBV/m	Grid 9 M4 25.24 dBV/m

Total = 25.56 dBV/m

E Category: M4

Location: -1.5, 25, 7.7 mm



17_HAC RF_LTE Band 41_20M_QPSK_1RB_49Offset_Ch41490_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2680 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41490/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 18.10 V/m; Power Drift = 0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 25.31 dBV/m

Emission category: M4

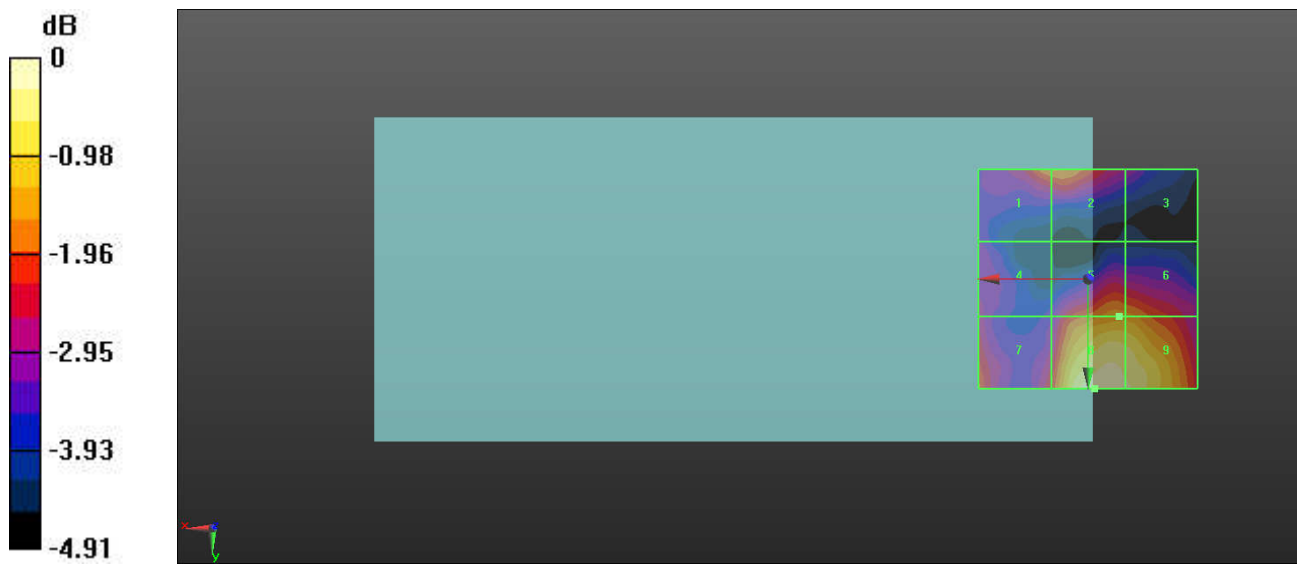
MIF scaled E-field

Grid 1 M4 23.71 dBV/m	Grid 2 M4 23.74 dBV/m	Grid 3 M4 22.39 dBV/m
Grid 4 M4 22.59 dBV/m	Grid 5 M4 23.87 dBV/m	Grid 6 M4 23.84 dBV/m
Grid 7 M4 23.49 dBV/m	Grid 8 M4 25.31 dBV/m	Grid 9 M4 25.05 dBV/m

Total = 25.31 dBV/m

E Category: M4

Location: -1.5, 25, 7.7 mm



18_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch39750_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.20 V/m; Power Drift = -0.03 dB

Applied MIF = -1.44 dB

RF audio interference level = 25.98 dBV/m

Emission category: M4

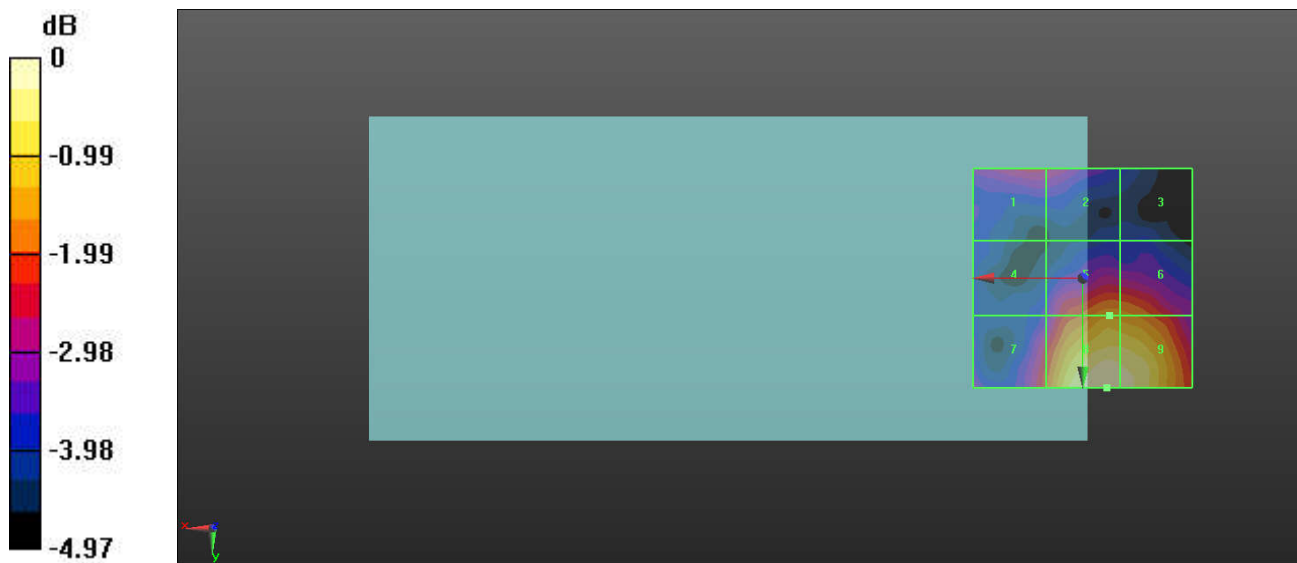
MIF scaled E-field

Grid 1 M4 23.51 dBV/m	Grid 2 M4 23.44 dBV/m	Grid 3 M4 22.2 dBV/m
Grid 4 M4 22.56 dBV/m	Grid 5 M4 24.6 dBV/m	Grid 6 M4 24.51 dBV/m
Grid 7 M4 23.9 dBV/m	Grid 8 M4 25.98 dBV/m	Grid 9 M4 25.87 dBV/m

Total = 25.98 dBV/m

E Category: M4

Location: -5.5, 25, 7.7 mm



0 dB = 19.91 V/m = 25.98 dBV/m

19_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch40185_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40185/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 20.59 V/m; Power Drift = 0.07 dB

Applied MIF = -1.44 dB

RF audio interference level = 26.43 dBV/m

Emission category: M4

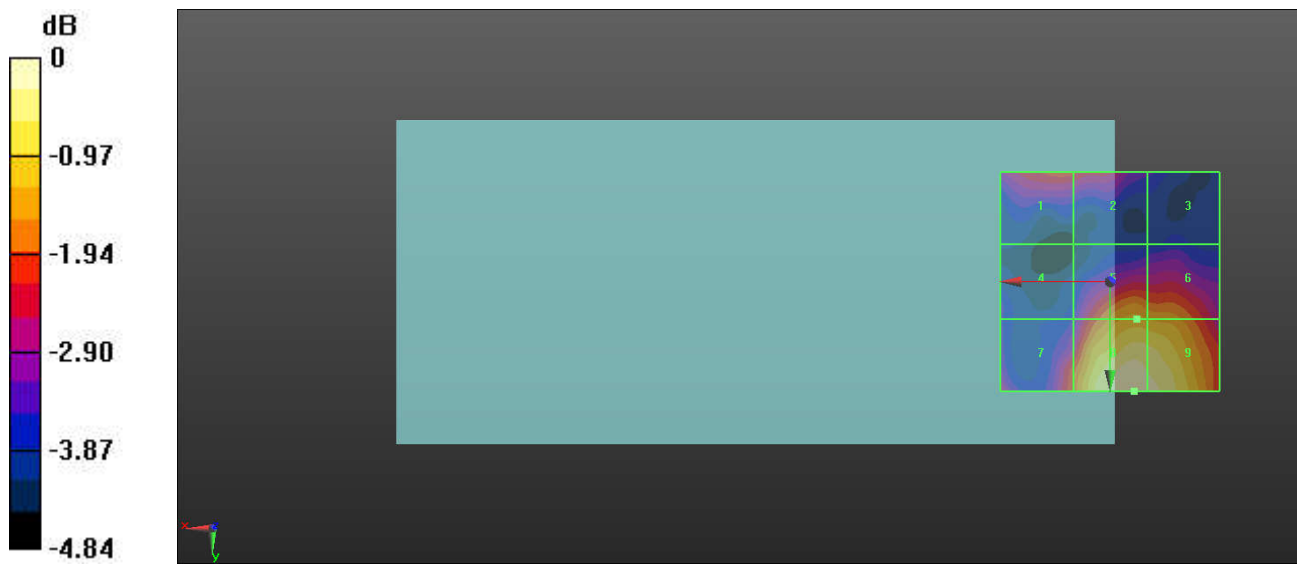
MIF scaled E-field

Grid 1 M4 24.42 dBV/m	Grid 2 M4 24.34 dBV/m	Grid 3 M4 23.02 dBV/m
Grid 4 M4 23.02 dBV/m	Grid 5 M4 25.25 dBV/m	Grid 6 M4 25.15 dBV/m
Grid 7 M4 24.54 dBV/m	Grid 8 M4 26.43 dBV/m	Grid 9 M4 26.3 dBV/m

Total = 26.43 dBV/m

E Category: M4

Location: -5.5, 25, 7.7 mm



20_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch40620_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40620/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.53 V/m; Power Drift = -0.04 dB

Applied MIF = -1.44 dB

RF audio interference level = 26.52 dBV/m

Emission category: M4

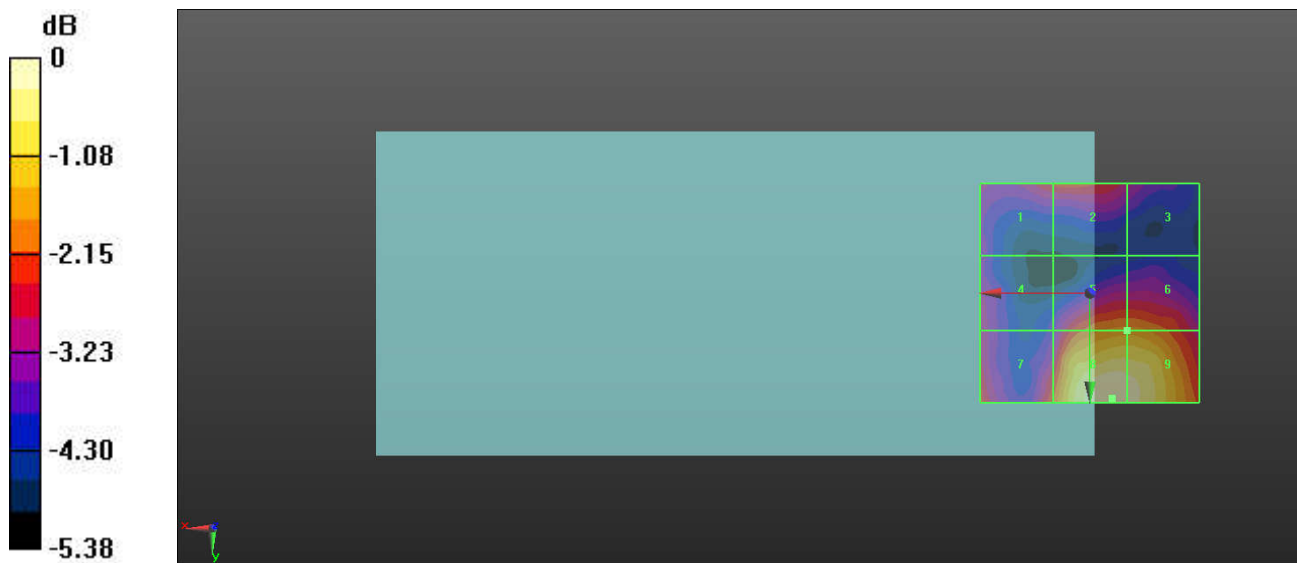
MIF scaled E-field

Grid 1 M4 24.12 dBV/m	Grid 2 M4 24.33 dBV/m	Grid 3 M4 23.44 dBV/m
Grid 4 M4 23.62 dBV/m	Grid 5 M4 24.9 dBV/m	Grid 6 M4 24.9 dBV/m
Grid 7 M4 24.42 dBV/m	Grid 8 M4 26.52 dBV/m	Grid 9 M4 26.37 dBV/m

Total = 26.52 dBV/m

E Category: M4

Location: -5, 24, 7.7 mm



0 dB = 21.17 V/m = 26.51 dBV/m

21_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch41055_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2636.5 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41055/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 19.37 V/m; Power Drift = 0.05 dB

Applied MIF = -1.44 dB

RF audio interference level = 26.33 dBV/m

Emission category: M4

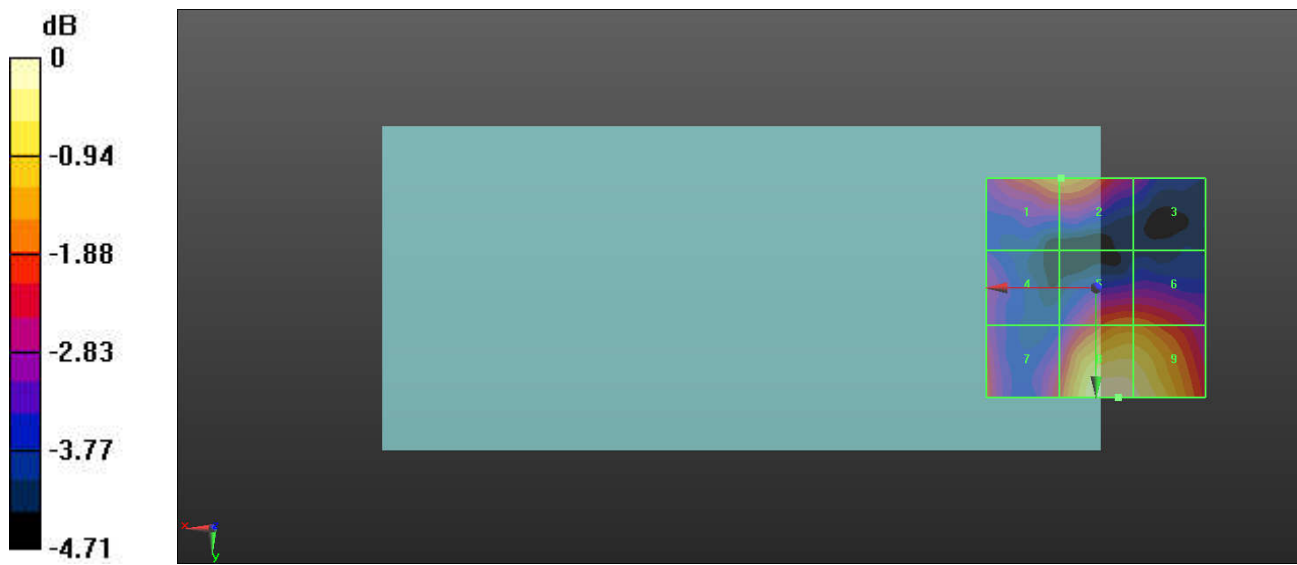
MIF scaled E-field

Grid 1 M4 25.02 dBV/m	Grid 2 M4 25.02 dBV/m	Grid 3 M4 23.54 dBV/m
Grid 4 M4 23.62 dBV/m	Grid 5 M4 24.79 dBV/m	Grid 6 M4 24.78 dBV/m
Grid 7 M4 24.53 dBV/m	Grid 8 M4 26.33 dBV/m	Grid 9 M4 26.14 dBV/m

Total = 26.33 dBV/m

E Category: M4

Location: -5, 25, 7.7 mm



22_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch41490_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2680 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41490/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 20.83 V/m; Power Drift = -0.04 dB

Applied MIF = -1.44 dB

RF audio interference level = 26.27 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 24.32 dBV/m	Grid 2 M4 24.52 dBV/m	Grid 3 M4 22.8 dBV/m
Grid 4 M4 23.79 dBV/m	Grid 5 M4 24.66 dBV/m	Grid 6 M4 24.57 dBV/m
Grid 7 M4 24.74 dBV/m	Grid 8 M4 26.27 dBV/m	Grid 9 M4 26.12 dBV/m

Total = 26.27 dBV/m

E Category: M4

Location: -5, 24, 7.7 mm



23_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch39750_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2506 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch39750/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.60 V/m; Power Drift = 0.12 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.21 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 29.21 dBV/m	Grid 2 M4 28.78 dBV/m	Grid 3 M4 25.35 dBV/m
Grid 4 M4 22.94 dBV/m	Grid 5 M4 25.25 dBV/m	Grid 6 M4 25.24 dBV/m
Grid 7 M4 18.67 dBV/m	Grid 8 M4 22.79 dBV/m	Grid 9 M4 22.84 dBV/m

Total = 29.21 dBV/m

E Category: M4

Location: 18.5, -25, 7.7 mm



0 dB = 28.87 V/m = 29.21 dBV/m

24_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch40185_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2549.5 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40185/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 27.01 V/m; Power Drift = -0.04 dB

Applied MIF = -1.44 dB

RF audio interference level = 28.79 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 28.79 dBV/m	Grid 2 M4 28.03 dBV/m	Grid 3 M4 24.88 dBV/m
Grid 4 M4 22.65 dBV/m	Grid 5 M4 24.59 dBV/m	Grid 6 M4 24.57 dBV/m
Grid 7 M4 17.51 dBV/m	Grid 8 M4 21.08 dBV/m	Grid 9 M4 21.16 dBV/m

Total = 28.79 dBV/m

E Category: M4

Location: 19.5, -25, 7.7 mm



0 dB = 27.51 V/m = 28.79 dBV/m

25_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch40620_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2593 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch40620/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 23.54 V/m; Power Drift = 0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 28.65 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 28.65 dBV/m	Grid 2 M4 27.54 dBV/m	Grid 3 M4 24.52 dBV/m
Grid 4 M4 23.06 dBV/m	Grid 5 M4 24.15 dBV/m	Grid 6 M4 24.11 dBV/m
Grid 7 M4 17.97 dBV/m	Grid 8 M4 20.61 dBV/m	Grid 9 M4 20.67 dBV/m

Total = 28.65 dBV/m

E Category: M4

Location: 20.5, -25, 7.7 mm



26_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch41055_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2636.5 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41055/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 21.90 V/m; Power Drift = -0.03 dB

Applied MIF = -1.44 dB

RF audio interference level = 28.26 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 28.26 dBV/m	Grid 2 M4 27.01 dBV/m	Grid 3 M4 24.37 dBV/m
Grid 4 M4 22.75 dBV/m	Grid 5 M4 23.83 dBV/m	Grid 6 M4 23.75 dBV/m
Grid 7 M4 17.91 dBV/m	Grid 8 M4 19.87 dBV/m	Grid 9 M4 19.88 dBV/m

Total = 28.26 dBV/m

E Category: M4

Location: 21, -25, 7.7 mm



0 dB = 25.87 V/m = 28.26 dBV/m

27_HAC RF_LTE Band 41-HPUE_20M_QPSK_1RB_49Offset_Ch41490_E

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);

Frequency: 2680 MHz; Duty Cycle: 1:8.8736

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

Ambient Temperature : 23.4 °C

DASY5 Configuration:

- Probe: EF3DV3 - SN4053; ConvF(1, 1, 1); Calibrated: 2021/4/29

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1386; Calibrated: 2021/1/13

- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;

- Measurement SW: DASY52, Version 52.10 (3); SEMCAD X Version 14.6.13 (7474)

Ch41490/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 22.83 V/m; Power Drift = 0.02 dB

Applied MIF = -1.44 dB

RF audio interference level = 28.23 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 28.23 dBV/m	Grid 2 M4 26.55 dBV/m	Grid 3 M4 24.35 dBV/m
Grid 4 M4 23.17 dBV/m	Grid 5 M4 24.12 dBV/m	Grid 6 M4 23.99 dBV/m
Grid 7 M4 19.11 dBV/m	Grid 8 M4 20.84 dBV/m	Grid 9 M4 20.83 dBV/m

Total = 28.23 dBV/m

E Category: M4

Location: 22, -25, 7.7 mm



0 dB = 25.80 V/m = 28.23 dBV/m