



HEARING AID COMPATIBILITY RF EMISSIONS TEST REPORT

FCC ID : 2AW49200731A
Equipment : SAGA
Model Name : OV1
M-Rating : M4
Applicant : OSOM Products Inc.
21701 Stevens Creek Blvd # 2270, Cupertino, CA 95015
Manufacturer : OSOM Products Inc.
21701 Stevens Creek Blvd # 2270, Cupertino, CA 95015
Standard : FCC 47 CFR §20.19
ANSI C63.19-2011

We, Sporton International Inc. (Shenzhen), 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 Inc. (Shenzhen), the test report shall not be reproduced except in full.

Si Zhang



Approved by: Si Zhang

Sporton International Inc. (Shenzhen)

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



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History of this test report

Report No.	Version	Description	Issued Date
HA291906A	Rev. 01	Initial issue of report	Mar. 08, 2023

**1. General Information**

Product Feature & Specification	
Applicant Name	OSOM Products Inc.
Equipment Name	SAGA
Model Name	OV1
IMEI Code	IMEI 1: 353087740006374 IMEI 2: 353087740006366
FCC ID	2AW49200731A
HW	MP
SW	SQ3A.220705.126
Date Tested	2022/10/9
Frequency Band	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 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 42: 3450 MHz ~ 3550MHz, 3550 MHz ~ 3600MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5: 824 MHz ~ 849 MHz 5G NR n7: 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n66: 1710 MHz ~ 1780 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n77: 3450 MHz ~ 3980 MHz 5G NR n78: 3450 MHz ~ 3800 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 WPT: 111 kHz ~ 148 kHz NFC: 13.56 MHz
Mode	RMC/AMR 12.2Kbps HSDPA HSUPA DC-HSDPA HSPA+(16QAM uplink is not supported) LTE: QPSK, 16QAM, 64QAM 5G NR : CP-OFDM / DFT-s-OFDM, PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac/ax VHT20/VHT40/VHT80/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE WPT: ASK NFC: ASK



2. Testing Location

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

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
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 v06r02
- FCC KDB 285076 D03 HAC FAQ v01r06

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
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⁾	5G NR, WLAN, BT	VoLTE / Google Duo	No
	Band 4			5G NR, WLAN, BT		No
	Band 5			5G NR, WLAN, BT		No
	Band 7			5G NR, WLAN, BT		No
	Band 12			5G NR, WLAN, BT		No
	Band 13			5G NR, WLAN, BT		No
	Band 14			5G NR, WLAN, BT		No
	Band 17			5G NR, WLAN, BT		No
	Band 25			5G NR, WLAN, BT		No
	Band 26			5G NR, WLAN, BT		No
	Band 30			5G NR, WLAN, BT		No
	Band 66			5G NR, WLAN, BT		No
	Band 71			5G NR, WLAN, BT		No
	Band 38			5G NR, WLAN, BT		No
LTE (TDD)	Band 41	VD	Yes	5G NR, WLAN, BT	VoLTE / Google Duo	No
	Band 42			5G NR, WLAN, BT		No
	Band 48			5G NR, WLAN, BT		No
	Band 48			5G NR, WLAN, BT		No
5G NR (FDD)	n2	VD	No ⁽¹⁾	LTE, WLAN, BT	VoNR / Google Duo	No
	n5			LTE, WLAN, BT		No
	n7			LTE, WLAN, BT		No
	n12			LTE, WLAN, BT		No
	n25			LTE, WLAN, BT		No
	n26			LTE, WLAN, BT		No
	n66			LTE, WLAN, BT		No
	n71			LTE, WLAN, BT		No
5G NR (TDD)	n38	VD	No ⁽¹⁾	LTE, WLAN, BT	VoNR / Google Duo	No
	n41			LTE, WLAN, BT		No
	n48			LTE, WLAN, BT		No
	n77			LTE, WLAN, BT		No
	n78			LTE, WLAN, BT		No
Wi-Fi	2450	VD	Yes	WCDMA,LTE,5G NR, WLAN 5GHz, BT	VoWiFi / Google Duo	No
	5200	VD	Yes	WCDMA,LTE,5G NR, BT, WLAN 2.4GHz		No
	5300			WCDMA,LTE,5G NR, BT, WLAN 2.4GHz		No
	5500			WCDMA,LTE,5G NR, BT, WLAN 2.4GHz		No
	5800			WCDMA,LTE,5G NR, BT, WLAN 2.4GHz		No
BT	2450	DT	No	WCDMA,LTE,5G NR, WLAN 5GHz, WLAN 2.4GHz	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 B38/41 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

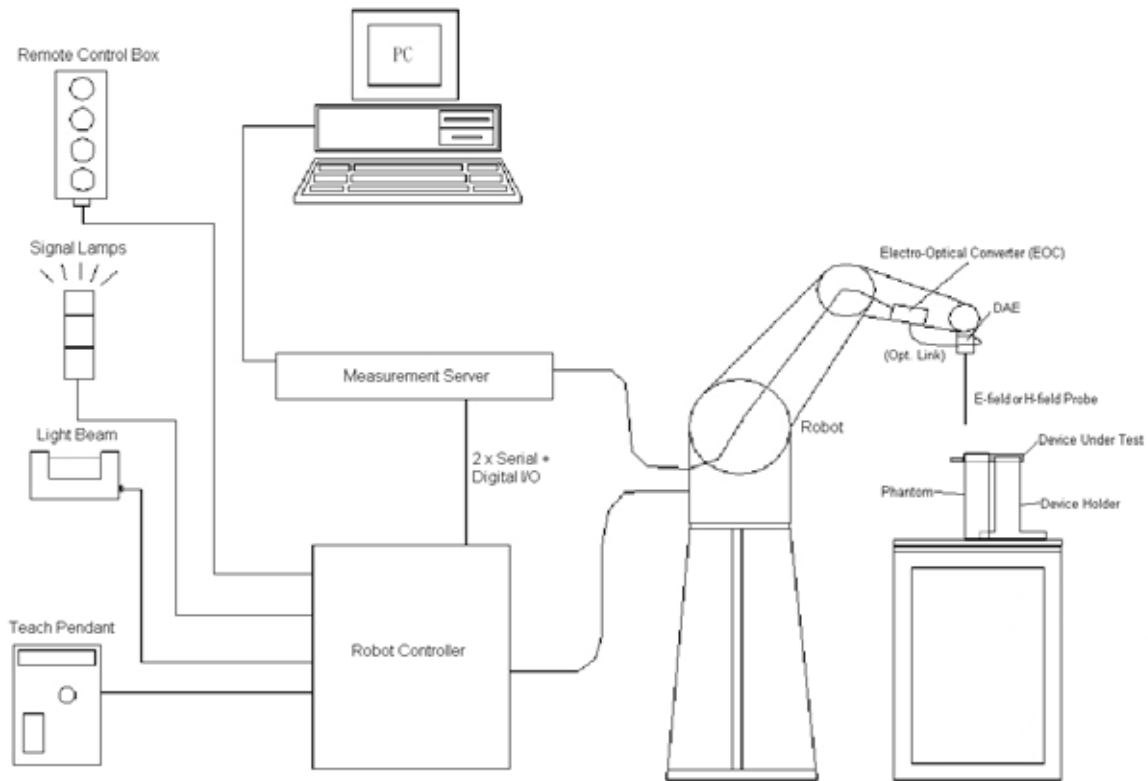


Fig 6.1 System Configurations

6.1 E-Field Probe System

E-Field Probe Specification

<ER3DV6>

Construction	One dipole parallel, two dipoles normal to probe axis Built-in shielding against static charges
Calibration	In air from 30 MHz to 3.0 GHz (absolute accuracy $\pm 6.0\%$, $k=2$)
Frequency	30 MHz to 3 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: 8 mm (Body: 12 mm) Distance from probe tip to dipole centers: 2.5 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

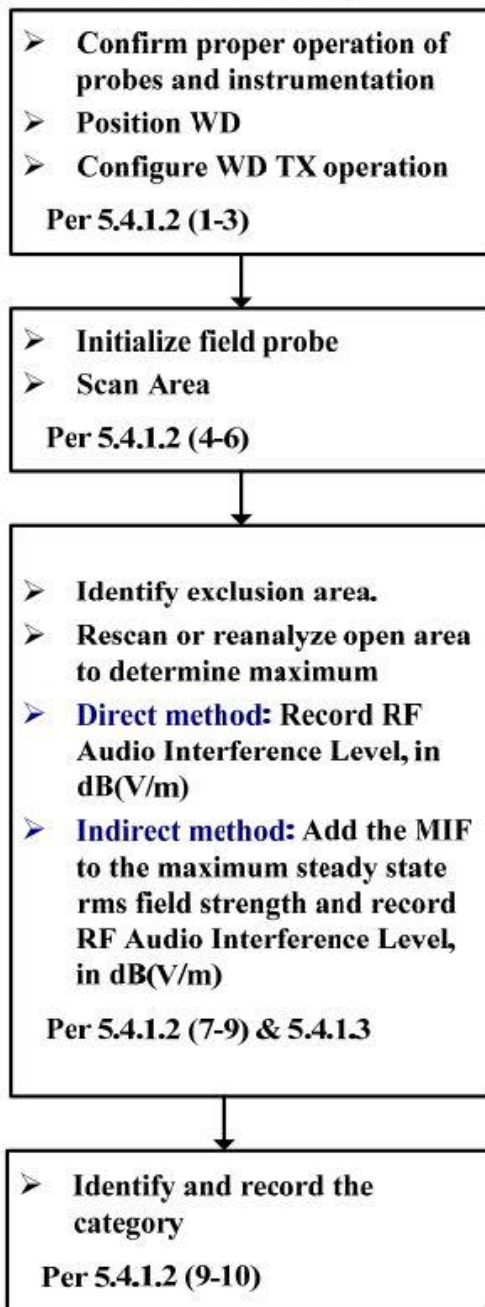


Figure 8.1 RF Emissions Flow Chart

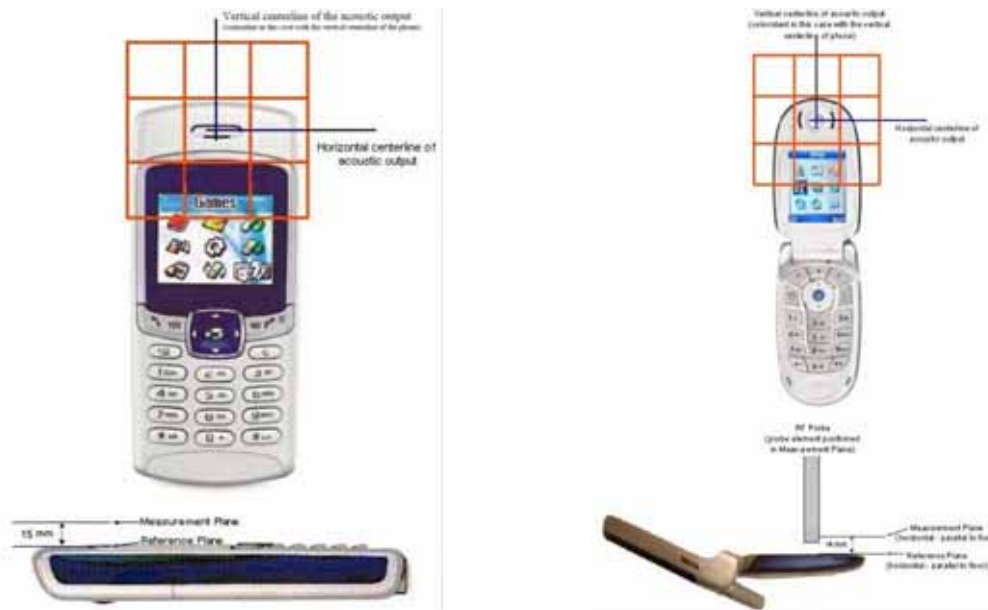


Fig 8.2 EUT reference and plane for HAC RF emission measurements

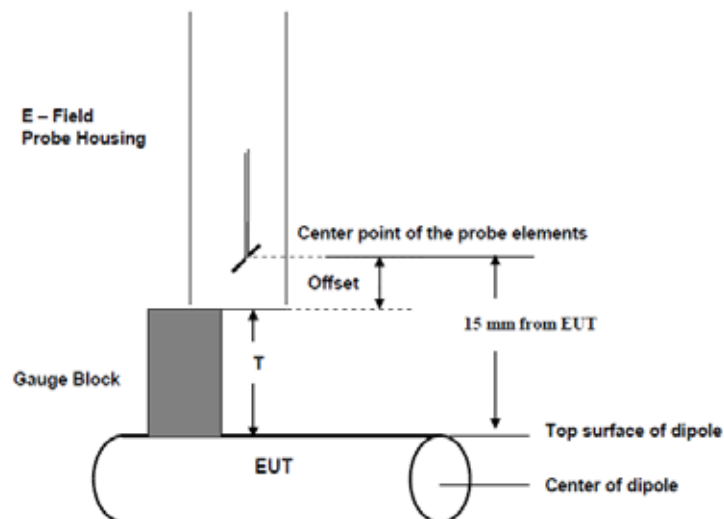


Fig. 8.3 Gauge block with E-field probe

**8. Test Equipment List**

Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
				Last Cal.	Due Date
SPEAG	2450MHz Calibration Dipole	CD2450V3	1186	Jan. 25, 2022	Jan. 24, 2023
SPEAG	2600Mhz Calibration Dipole	CD2600V3	1029	May 25, 2022	May 24, 2023
SPEAG	3500Mhz Calibration Dipole	CD3500V3	1018	May 25, 2022	May 24, 2023
SPEAG	Data Acquisition Electronics	DAE4	1664	May 30, 2022	May 29, 2023
SPEAG	Isotropic E-Field Probe	EF3DV3	4053	Jul. 27, 2022	Jul. 26, 2023
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	44749	45113
R&S	Base Station(Measure)	CMU200	108440	Dec. 28, 2021	Dec. 27, 2022
R&S	Base Station(Measure)	CMW500	157651	Dec. 29, 2021	Dec. 28, 2022
Agilent	Signal Generator	N5181A	MY50145381	Dec. 28, 2021	Dec. 27, 2022
Anritsu	Power Sensor	MA2411B	1542004	Dec. 28, 2021	Dec. 27, 2022
Anritsu	Power Meter	ML2495A	1339473	Dec. 28, 2021	Dec. 27, 2022
R&S	Power Sensor	NRP50S	101254	Apr. 07, 2022	Apr. 06, 2023
Agilent	Dual Directional Coupler	778D	50422	NCR	NCR
Woken	Attenuator	WK0602-XX	N/A	NCR	NCR
AR	Amplifier	5S1G4	0333096	Apr. 07, 2022	Apr. 06, 2023
mini-circuits	Amplifier	ZVE-3W-83+	599201528	Apr. 07, 2022	Apr. 06, 2023
R&S	Spectrum Analyzer	FSP7	100818	Jul. 07, 2022	Jul. 06, 2023
Anymetre	Thermo-Hygrometer	JR593	2015030904	Jul. 12, 2022	Jul. 11, 2023
Weinschel	Attenuator 1	3M-10	N/A	NCR	NCR
Weinschel	Attenuator 2	3M-20	N/A	NCR	NCR
SPEAG	Device Holder	N/A	N/A	NCR	NCR
ARRA	Power Divider	A3200-2	N/A	NCR	NCR
ET Industries	Dual Directional Coupler	C-058-10	N/A	NCR	NCR

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 of dipole 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.

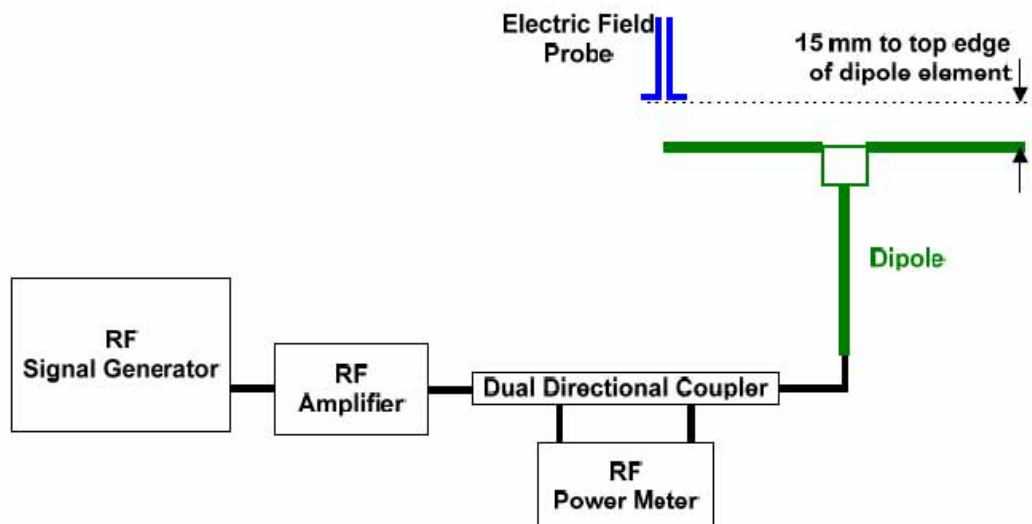


Fig. 7.1 Setup Diagram

<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
2450	20	84.7	91.43	88.25	89.84	6.07	Oct. 09, 2022
2600	20	85.8	87.66	88.14	87.9	2.45	Oct. 09, 2022
3500	20	82.5	88.75	88.33	88.54	7.32	Oct. 09, 2022

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)
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
10769	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	-12.08
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 Greenfield, 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
10671	IEEE 802.11ax (20MHz, MCS0, 90pc duty cycle)	-5.58



11. Low-power Exemption

<Max Tune-up Limit>

<Ant0>

Frequency Band		Average Power (dBm)
WCDMA	Band V	25.50
	Band IV	25.50
	Band II	25.50
	HSPA	25.50
FDD LTE	Band 2	25.00
	Band 4	25.00
	Band 5	25.00
	Band 7	25.00
	Band 12	25.00
	Band 13	25.00
	Band 14	25.00
	Band 17	25.00
	Band 25	25.00
	Band 26	25.00
	Band 30	25.00
	Band 66	25.00
	Band 71	25.00
TDD LTE	Band 38/41	25.00
5G NR FDD	n2	25.00
	n5	25.00
	n7	25.00
	n12	25.00
	n25	25.00
	n26	25.00
	n66	25.00
5G NR TDD	n71	25.00
	n38	25.00

<Ant4>

5G NR TDD	n41	25.00
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<Ant6>

TDD LTE	Band 42	25.00
	Band 48	25.00
5G NR TDD	n48	25.00
	n77	25.00
	n78	25.00

**<Ant2>**

Frequency Band		Average Power (dBm)
2.4GHz WLAN	802.11b	16.00
	802.11g	15.00
	802.11n-HT20	15.00
	802.11n-HT40	14.00
5GHz WLAN	802.11a	15.00
	802.11n-HT20	15.00
	802.11n-HT40	14.00
	802.11ac-VHT20	15.00
	802.11ac-VHT40	14.00
	802.11ac-VHT80	13.00
	802.11ax-HE20	15.00
	802.11ax-HE40	14.00
	802.11ax-HE80	13.00
	802.11ax-HE160	12.00

<Ant3>

Frequency Band		Average Power (dBm)
2.4GHz WLAN	802.11b	16.00
	802.11g	15.00
	802.11n-HT20	15.00
	802.11n-HT40	14.00
5GHz WLAN	802.11a	15.00
	802.11n-HT20	15.00
	802.11n-HT40	14.00
	802.11ac-VHT20	15.00
	802.11ac-VHT40	14.00
	802.11ac-VHT80	13.00
	802.11ax-HE20	15.00
	802.11ax-HE40	14.00
	802.11ax-HE80	13.00
	802.11ax-HE160	12.00

<Ant2+3>

2.4GHz WLAN	802.11b	19.00
	802.11g	18.00
	802.11n-HT20	18.00
	802.11n-HT40	17.00
5GHz WLAN	802.11a	18.00
	802.11n-HT20	18.00
	802.11n-HT40	17.00
	802.11ac-VHT20	18.00
	802.11ac-VHT40	17.00
	802.11ac-VHT80	16.00
	802.11ax-HE20	18.00
	802.11ax-HE40	17.00
	802.11ax-HE80	16.00
	802.11ac-VHT160	15.00

<Low Power Exemption>
<Ant0>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
WCDMA	25.50	-25.43	0.07	No
WCDMA - HSPA	25.50	-20.39	5.11	No
LTE - FDD	25.00	-9.76	15.24	No
LTE - TDD	25.00	-1.44	23.56	Yes
5G FR1 - FDD	25.00	-12.08	12.92	No
5G NR - TDD	25.00	-12.08	12.92	No

<Ant4>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
5G NR - TDD	25.00	-12.08	12.92	No

<Ant6>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
LTE - TDD	25.00	-1.44	23.56	Yes
5G NR - TDD	25.00	-12.08	12.92	No

<Ant2>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
802.11b	16.00	-2.02	13.98	No
802.11g	15.00	0.12	15.12	No
802.11n-HT20	15.00	-13.44	1.56	No
802.11n-HT40	14.00	-13.44	0.56	No
802.11a	15.00	-3.15	11.85	No
802.11n-HT20	15.00	-13.44	1.56	No
802.11n-HT40	14.00	-13.44	0.56	No
802.11ac-VHT20	15.00	-5.57	9.43	No
802.11ac-VHT40	14.00	-5.57	8.43	No
802.11ac-VHT80	13.00	-5.57	7.43	No
802.11ax-HE20	15.00	-5.58	9.42	No
802.11ax-HE40	14.00	-5.58	8.42	No
802.11ax-HE80	13.00	-5.58	7.42	No
802.11ax-HE160	12.00	-5.58	6.42	No

**<Ant3>**

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
802.11b	16.00	-2.02	13.98	No
802.11g	15.00	0.12	15.12	No
802.11n-HT20	15.00	-13.44	1.56	No
802.11n-HT40	14.00	-13.44	0.56	No
802.11a	15.00	-3.15	11.85	No
802.11n-HT20	15.00	-13.44	1.56	No
802.11n-HT40	14.00	-13.44	0.56	No
802.11ac-VHT20	15.00	-5.57	9.43	No
802.11ac-VHT40	14.00	-5.57	8.43	No
802.11ac-VHT80	13.00	-5.57	7.43	No
802.11ax-HE20	15.00	-5.58	9.42	No
802.11ax-HE40	14.00	-5.58	8.42	No
802.11ax-HE80	13.00	-5.58	7.42	No
802.11ax-HE160	12.00	-5.58	6.42	No

<Ant2+3>

Air Interface	Max Average Antenna Input Power (dBm)	Worst Case MIF (dB)	Power + MIF(dB)	C63.19 test required
802.11b	19.00	-2.02	16.98	No
802.11g	18.00	0.12	18.12	Yes
802.11n-HT20	18.00	-13.44	4.56	No
802.11n-HT40	17.00	-13.44	3.56	No
802.11a	18.00	-3.15	14.85	No
802.11n-HT20	18.00	-13.44	4.56	No
802.11n-HT40	17.00	-13.44	3.56	No
802.11ac-VHT20	18.00	-5.57	12.43	No
802.11ac-VHT40	17.00	-5.57	11.43	No
802.11ac-VHT80	16.00	-5.57	10.43	No
802.11ax-HE20	18.00	-5.58	12.42	No
802.11ax-HE40	17.00	-5.58	11.42	No
802.11ax-HE80	16.00	-5.58	10.42	No
802.11ax-HE160	15.00	-5.58	9.42	No

General Note:

1. 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.
2. HAC RF rating is M4 for the air interface which meets the low power exemption.

**12. Conducted RF Output Power (Unit: dBm)**

<LTE>

<Ant 0>

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	0	24.79	24.82	24.82

Band 41								
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	0	24.68	24.74	24.49	24.85	24.63

<Ant 6>

Band 42						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				42190	42590	43490
Frequency (MHz)				3460	3500	3590
20	QPSK	1	0	23.33	23.44	23.65

Band 48							
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				55340	55830	56150	56640
Frequency (MHz)				3560	3609	3641	3690
20	QPSK	1	0	23.43	23.46	23.61	23.47

<WLAN>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	ANT2	ANT3	ANT2+3
	802.11g 6Mbps	1	2412	Average power (dBm)	Average power (dBm)	Average power (dBm)
				14.10	13.20	16.68
		6	2437	13.40	13.50	16.46
		11	2462	14.20	13.20	16.74

**13. HAC RF Emission Test Results**

Plot No.	Air Interface	Modulation / Mode	Channel	Transmit Ant.	Average Antenna Input Power (dBm)	MIF	E-Field (dBV/m)	Margin to FCC M3 limit (dB)	E-Field M Rating
01	LTE Band 41	20M_QPSK_1_0	39750	Ant0	24.68	-1.44	17.68	17.32	M4
02	LTE Band 41	20M_QPSK_1_0	40185	Ant0	24.74	-1.44	18.61	16.39	M4
03	LTE Band 41	20M_QPSK_1_0	40620	Ant0	24.49	-1.44	17.42	17.58	M4
04	LTE Band 41	20M_QPSK_1_0	41055	Ant0	24.85	-1.44	17.59	17.41	M4
05	LTE Band 41	20M_QPSK_1_0	41490	Ant0	24.63	-1.44	17.00	18.00	M4
06	LTE Band 42	20M_QPSK_1_0	42190	Ant6	23.33	-1.44	29.45	5.55	M4
07	LTE Band 42	20M_QPSK_1_0	42590	Ant6	23.44	-1.44	29.50	5.50	M4
08	LTE Band 42	20M_QPSK_1_0	43490	Ant6	23.65	-1.44	29.46	5.54	M4
09	LTE Band 48	20M_QPSK_1_0	55340	Ant6	23.43	-1.44	29.34	5.66	M4
10	LTE Band 48	20M_QPSK_1_0	55830	Ant6	23.46	-1.44	29.41	5.59	M4
11	LTE Band 48	20M_QPSK_1_0	56150	Ant6	23.61	-1.44	29.58	5.42	M4
12	LTE Band 48	20M_QPSK_1_0	56640	Ant6	23.47	-1.44	29.96	5.04	M4
13	WLAN2.4GHz	802.11g 6Mbps	1	Ant2+3	16.68	0.12	28.77	6.23	M4
14	WLAN2.4GHz	802.11g 6Mbps	6	Ant2+3	16.46	0.12	28.30	6.70	M4
15	WLAN2.4GHz	802.11g 6Mbps	11	Ant2+3	16.74	0.12	29.89	5.11	M4

Remark:

1. 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.
2. Phone Condition: Mute on; Backlight off; Max Volume

Test Engineer : Hank Huang, Kevin Xu, David Dai, Bin He

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	Standard Uncertainty (E) (±%)
Measurement System					
Probe Calibration	5.1	N	1	1	5.1
Axial Isotropy	4.7	R	1.732	1	2.7
Sensor Displacement	16.5	R	1.732	1	9.5
Boundary Effects	2.4	R	1.732	1	1.4
Phantom Boundary Effect	7.2	R	1.732	1	4.2
Linearity	4.7	R	1.732	1	2.7
Scaling with PMR calibration	10.0	R	1.732	1	5.8
System Detection Limit	1.0	R	1.732	1	0.6
Readout Electronics	0.3	N	1	1	0.3
Response Time	2.6	R	1.732	1	1.5
Integration Time	2.6	R	1.732	1	1.5
RF Ambient Conditions	3.0	R	1.732	1	1.7
RF Reflections	12.0	R	1.732	1	6.9
Probe Positioner	1.2	R	1.732	1	0.7
Probe Positioning	4.7	R	1.732	1	2.7
Extrap. and Interpolation	1.0	R	1.732	1	0.6
Test Sample Related					
Device Positioning Vertical	4.7	R	1.732	1	2.7
Device Positioning Lateral	1.0	R	1.732	1	0.6
Device Holder and Phantom	2.4	R	1.732	1	1.4
Power Drift	5.0	R	1.732	1	2.9
Phantom and Setup Related					
Phantom Thickness	2.4	R	1.732	1	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 D01v06r02, "Equipment Authorization Guidance for Hearing Aid Compatibility", September 19, 2022
- [3] FCC KDB 285076 D03v01r06, "Hearing aid compatibility frequently asked questions", July 20, 2022.
- [4] SPEAG DASY System Handbook

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



Appendix A. Plots of System Performance Check

The plots are shown as follows.

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: ER3DV6 - SN4053; ConvF(1, 1, 1); Calibrated: 2022/7/27
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30
- 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 = 73.41 V/m; Power Drift = -0.11 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 91.41 V/m

Average value of Total=(91.43+88.25)/2=89.84 V/m

PMF scaled E-field

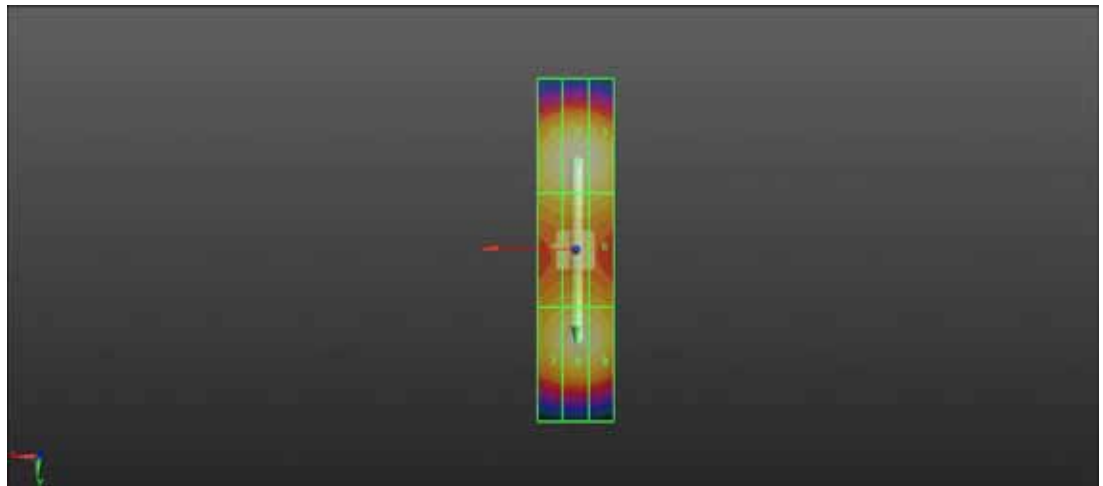
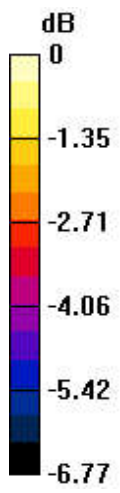
Grid 1 M3 89.47 V/m	Grid 2 M3 91.43 V/m	Grid 3 M3 90.94 V/m
Grid 4 M3 82.38 V/m	Grid 5 M3 83.73 V/m	Grid 6 M3 83.18 V/m
Grid 7 M3 85.66 V/m	Grid 8 M3 88.25 V/m	Grid 9 M3 87.31 V/m

Cursor:

Total = 91.41 V/m

E Category: M3

Location: -0.5, -23.5, 8.7 mm



0 dB = 91.41 V/m = 39.31 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: ER3DV6 - SN4053; ConvF(1, 1, 1); Calibrated: 2022/7/27
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30
- 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 = 73.79 V/m; Power Drift = 0.15 dB
PMR not calibrated. PMF = 1.000 is applied.
E-field emissions = 88.29 V/m
Average value of Total=(87.66+88.14)/2 = 87.9 V/m

PMF scaled E-field

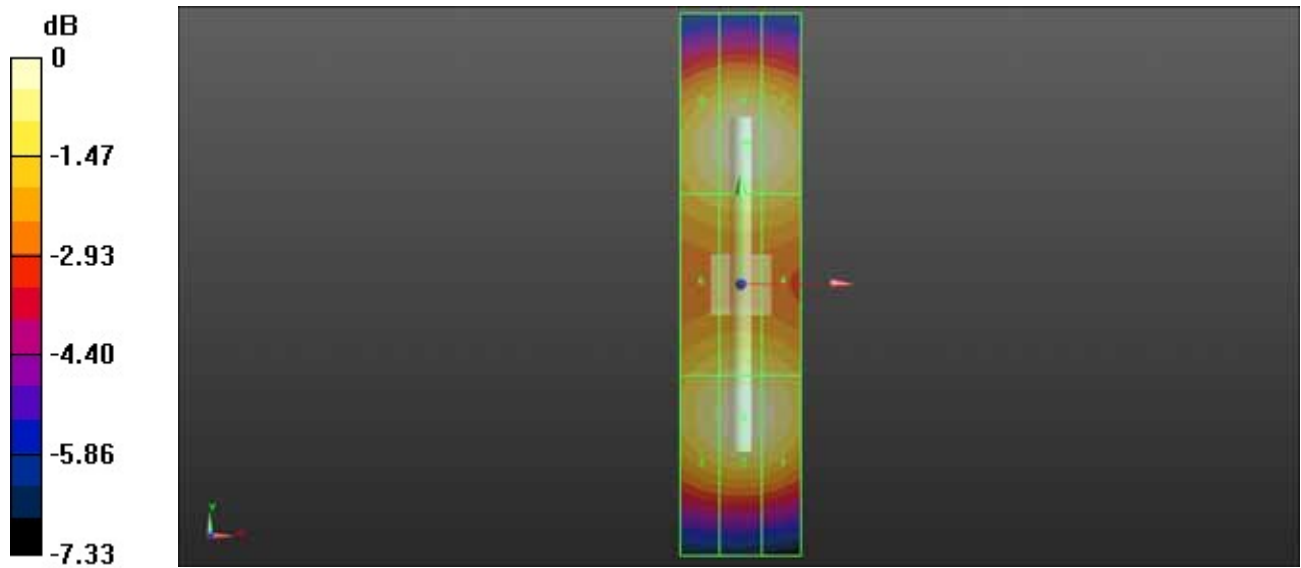
Grid 1 M3 86.14 V/m	Grid 2 M3 87.66 V/m	Grid 3 M3 84.84 V/m
Grid 4 M3 80.85 V/m	Grid 5 M3 81.47 V/m	Grid 6 M3 79.75 V/m
Grid 7 M3 87.77 V/m	Grid 8 M3 88.14 V/m	Grid 9 M3 85.82 V/m

Cursor:

Total = 88.29 V/m

E Category: M3

Location: 1, 23.5, 9.7 mm



0 dB = 88.29 V/m = 38.89 dBV/m

HAC_E_Dipole_3500**DUT: HAC Dipole 3500 MHz**

Communication System: UID 0, CW (0); Frequency: 3500 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: ER3DV6 - SN4053; ConvF(1, 1, 1); Calibrated: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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 CD3500 =

15mm/Hearing Aid Compatibility Test at 15mm distance (41x121x1): Interpolated grid:

dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 38.69 V/m; Power Drift = 0.02 dB

PMR not calibrated. PMF = 1.000 is applied.

E-field emissions = 88.48 V/m

Average value of Total=(88.75+88.33)/2 = 88.54 V/m

PMF scaled E-field

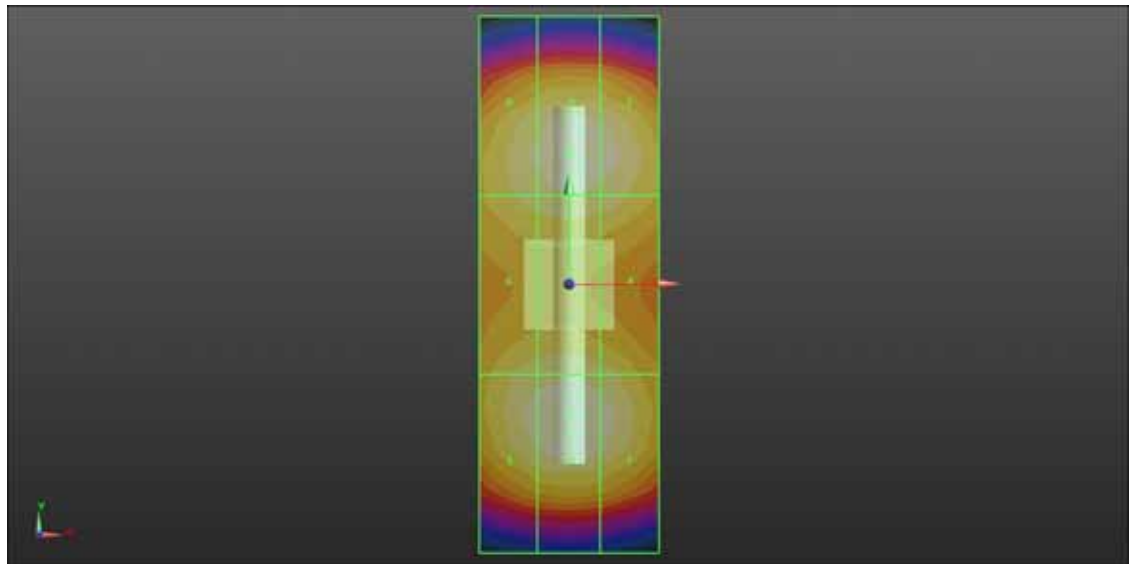
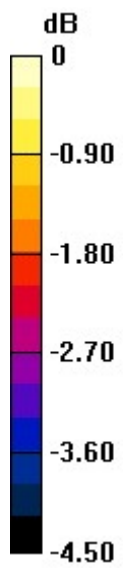
Grid 1 M3 87.57 V/m	Grid 2 M3 88.75 V/m	Grid 3 M3 87.45 V/m
Grid 4 M3 85.07 V/m	Grid 5 M3 85.99 V/m	Grid 6 M3 84.93 V/m
Grid 7 M3 87.53 V/m	Grid 8 M3 88.33 V/m	Grid 9 M3 86.41 V/m

Cursor:

Total = 88.48 V/m

E Category: M3

Location: 0, -14.5, 9.7 mm



0 dB = 88.48 V/m = 39.11 dBV/m



Appendix B. Plots of RF Emission Measurement

The plots are shown as follows.

01_HAC RF_LTE Band 41_20M_QPSK_1RB_0Offset_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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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 = 9.285 V/m; Power Drift = 0.06 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.68 dBV/m

Emission category: M4

MIF scaled E-field

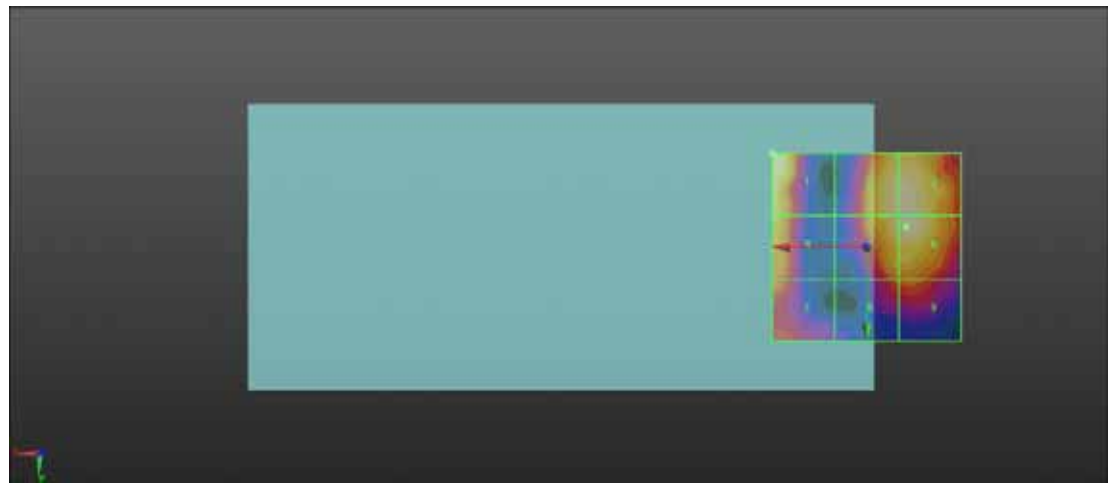
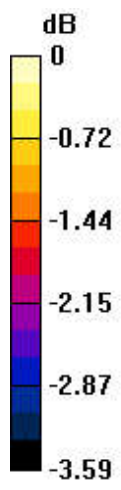
Grid 1 M4 17.64 dBV/m	Grid 2 M4 17.53 dBV/m	Grid 3 M4 17.58 dBV/m
Grid 4 M4 17.1 dBV/m	Grid 5 M4 17.53 dBV/m	Grid 6 M4 17.68 dBV/m
Grid 7 M4 16.48 dBV/m	Grid 8 M4 16.4 dBV/m	Grid 9 M4 16.47 dBV/m

Cursor:

Total = 17.68 dBV/m

E Category: M4

Location: -10.5, -5.5, 7.7 mm



0 dB = 7.653 V/m = 17.68 dBV/m

02_HAC RF_LTE Band 41_20M_QPSK_1RB_0Offset_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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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 = 9.755 V/m; Power Drift = 0.03 dB

Applied MIF = -1.44 dB

RF audio interference level = 18.61 dBV/m

Emission category: M4

MIF scaled E-field

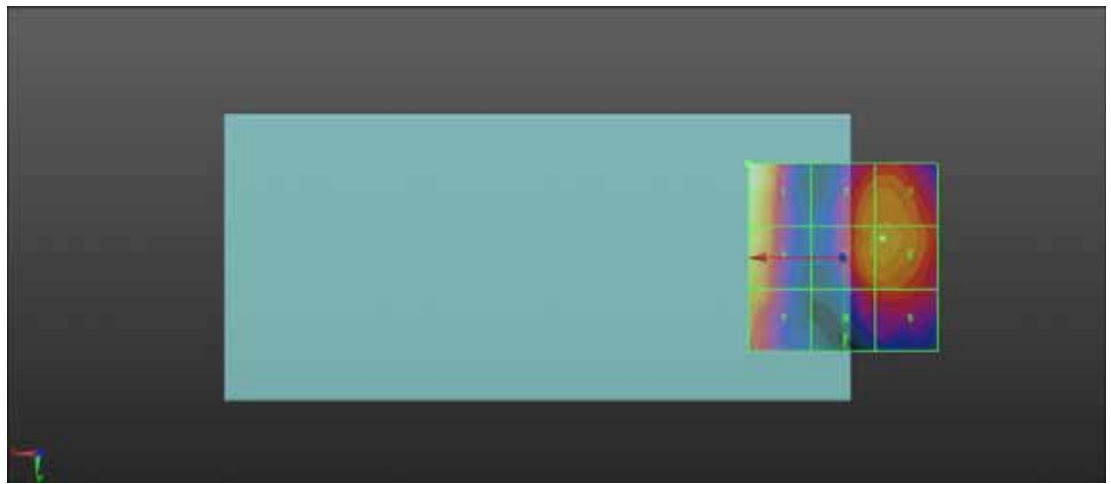
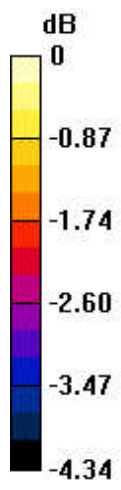
Grid 1 M4 18.61 dBV/m	Grid 2 M4 17.46 dBV/m	Grid 3 M4 17.51 dBV/m
Grid 4 M4 18.14 dBV/m	Grid 5 M4 17.61 dBV/m	Grid 6 M4 17.73 dBV/m
Grid 7 M4 17.49 dBV/m	Grid 8 M4 16.81 dBV/m	Grid 9 M4 16.93 dBV/m

Cursor:

Total = 18.61 dBV/m

E Category: M4

Location: 25, -25, 7.7 mm



0 dB = 8.521 V/m = 18.61 dBV/m

03_HAC RF_LTE Band 41_20M_QPSK_1RB_0Offset_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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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 = 9.106 V/m; Power Drift = -0.17 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.42 dBV/m

Emission category: M4

MIF scaled E-field

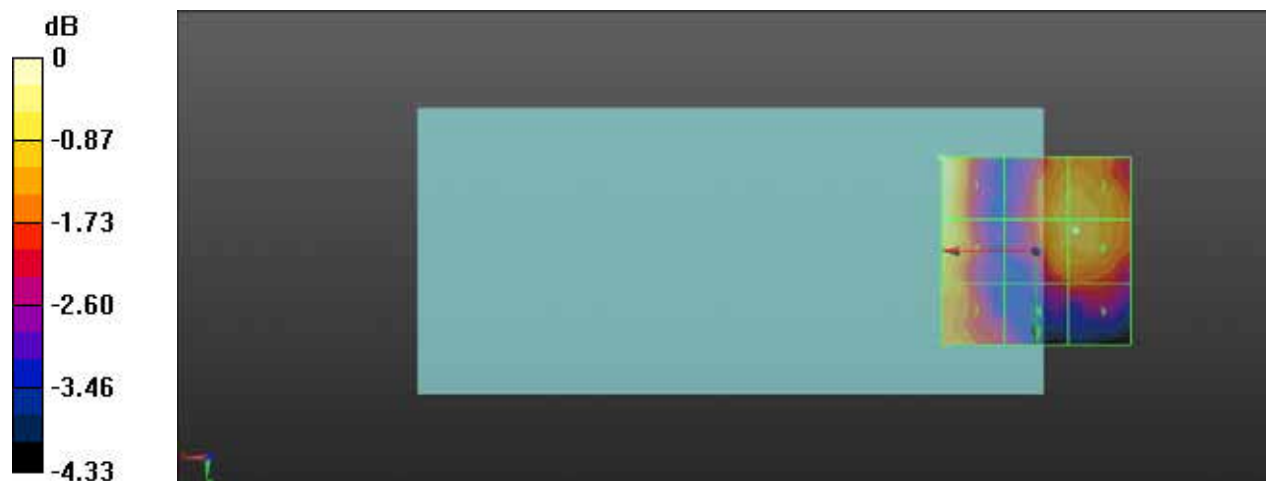
Grid 1 M4 17.42 dBV/m	Grid 2 M4 16.81 dBV/m	Grid 3 M4 16.82 dBV/m
Grid 4 M4 17.05 dBV/m	Grid 5 M4 16.85 dBV/m	Grid 6 M4 16.93 dBV/m
Grid 7 M4 16.41 dBV/m	Grid 8 M4 15.58 dBV/m	Grid 9 M4 15.68 dBV/m

Cursor:

Total = 17.42 dBV/m

E Category: M4

Location: 25, -25, 7.7 mm



0 dB = 7.431 V/m = 17.42 dBV/m

04_HAC RF_LTE Band 41_20M_QPSK_1RB_0Offset_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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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 = 9.039 V/m; Power Drift = -0.03 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.59 dBV/m

Emission category: M4

MIF scaled E-field

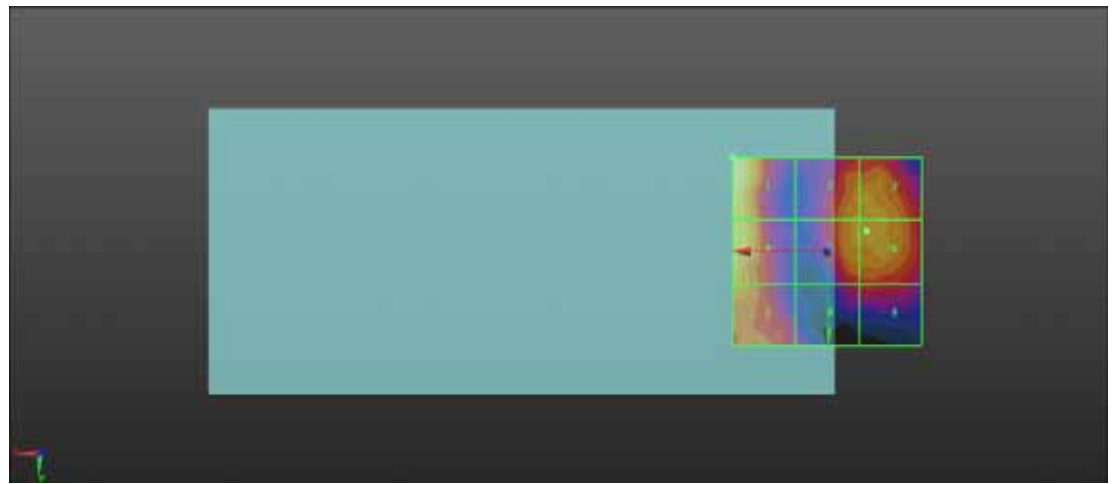
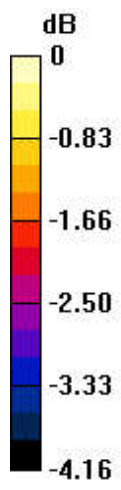
Grid 1 M4 17.59 dBV/m	Grid 2 M4 16.55 dBV/m	Grid 3 M4 16.62 dBV/m
Grid 4 M4 17.04 dBV/m	Grid 5 M4 16.66 dBV/m	Grid 6 M4 16.75 dBV/m
Grid 7 M4 16.58 dBV/m	Grid 8 M4 15.78 dBV/m	Grid 9 M4 15.89 dBV/m

Cursor:

Total = 17.59 dBV/m

E Category: M4

Location: 25, -25, 7.7 mm



0 dB = 7.580 V/m = 17.59 dBV/m

05_HAC RF_LTE Band 41_20M_QPSK_1RB_0Offset_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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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 = 8.166 V/m; Power Drift = -0.11 dB

Applied MIF = -1.44 dB

RF audio interference level = 17.00 dBV/m

Emission category: M4

MIF scaled E-field

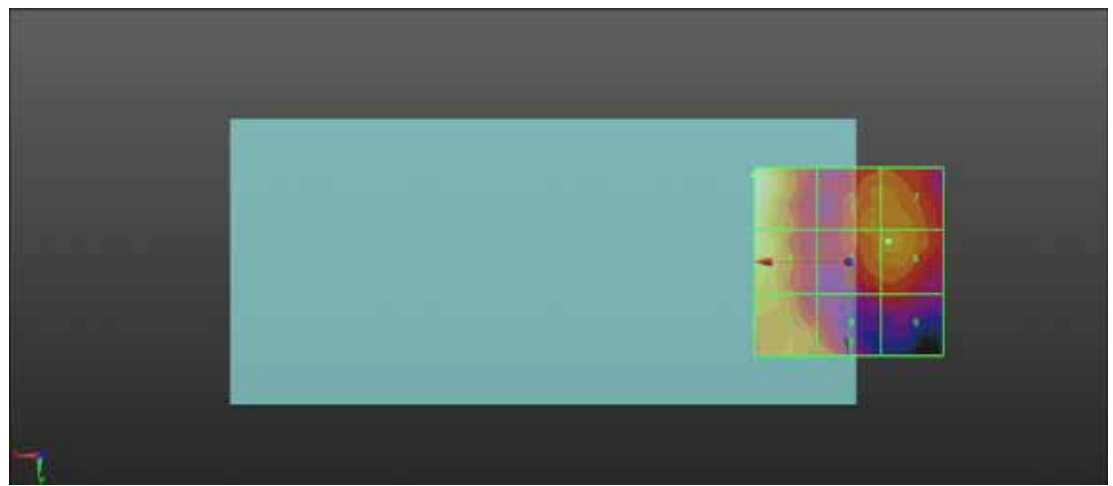
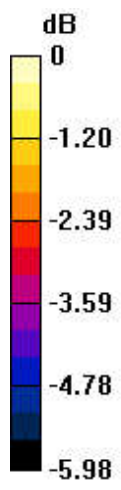
Grid 1 M4 17 dBV/m	Grid 2 M4 15.45 dBV/m	Grid 3 M4 15.42 dBV/m
Grid 4 M4 16.48 dBV/m	Grid 5 M4 15.54 dBV/m	Grid 6 M4 15.71 dBV/m
Grid 7 M4 15.74 dBV/m	Grid 8 M4 14.99 dBV/m	Grid 9 M4 14.35 dBV/m

Cursor:

Total = 17.00 dBV/m

E Category: M4

Location: 25, -23, 7.7 mm



0 dB = 7.078 V/m = 17.00 dBV/m

06_HAC RF_LTE Band 42_20M_QPSK_1RB_0Offset_Ch42190_E

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

Frequency: 3460 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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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)

Ch42190/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 = 41.88 V/m; Power Drift = 0.02 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.45 dBV/m

Emission category: M4

MIF scaled E-field

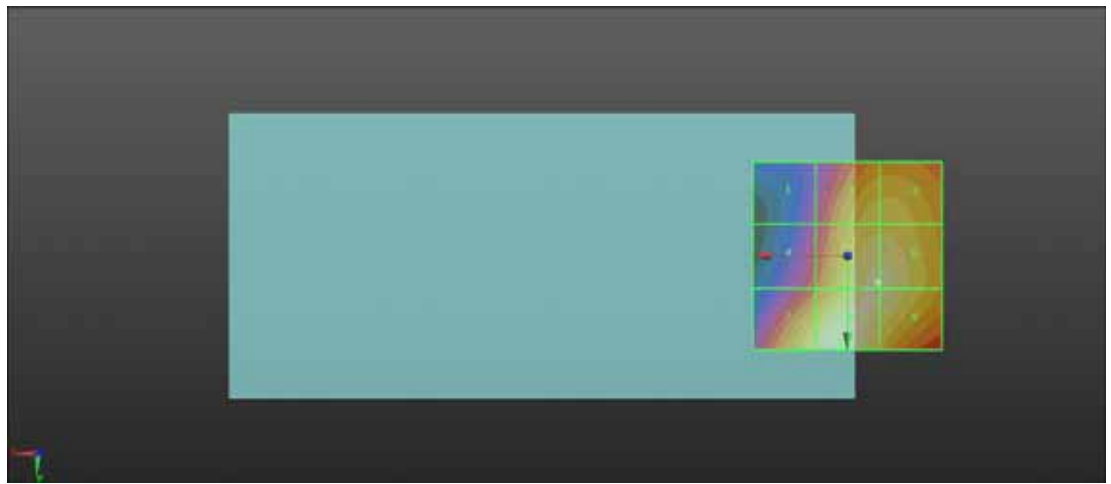
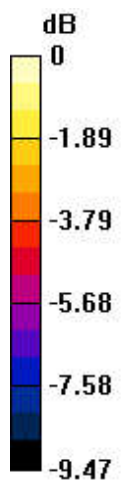
Grid 1 M4 24.29 dBV/m	Grid 2 M4 28.07 dBV/m	Grid 3 M4 28.08 dBV/m
Grid 4 M4 25.72 dBV/m	Grid 5 M4 29 dBV/m	Grid 6 M4 28.99 dBV/m
Grid 7 M4 28.54 dBV/m	Grid 8 M4 29.45 dBV/m	Grid 9 M4 28.98 dBV/m

Cursor:

Total = 29.45 dBV/m

E Category: M4

Location: 2, 23.5, 7.7 mm



0 dB = 29.69 V/m = 29.45 dBV/m

07_HAC RF_LTE Band 42_20M_QPSK_1RB_0Offset_Ch42590_E

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

Frequency: 3500 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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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)

Ch42590/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 = 42.07 V/m; Power Drift = 0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.50 dBV/m

Emission category: M4

MIF scaled E-field

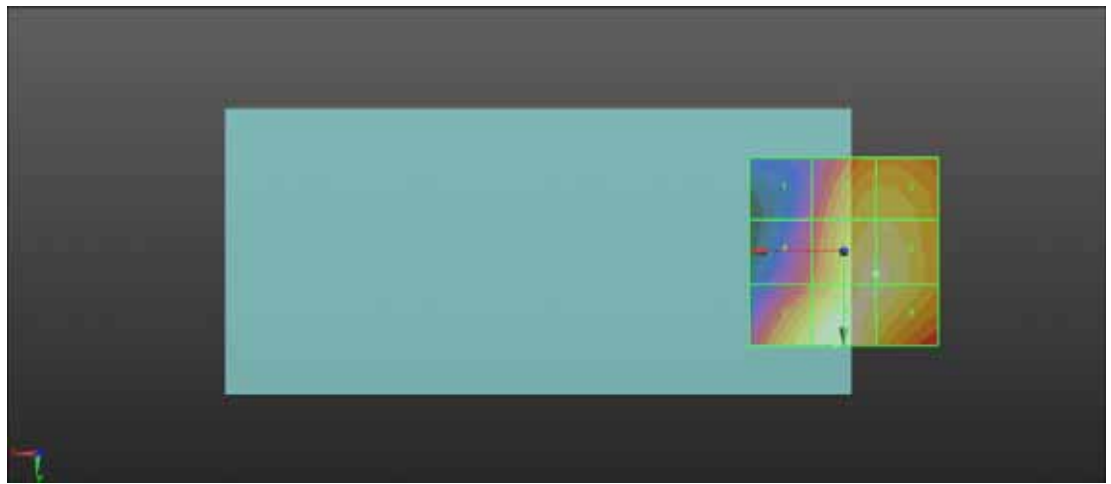
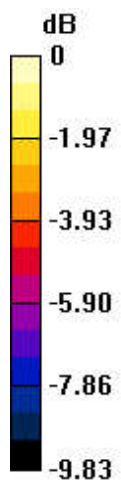
Grid 1 M4 24.25 dBV/m	Grid 2 M4 28.19 dBV/m	Grid 3 M4 28.2 dBV/m
Grid 4 M4 25.7 dBV/m	Grid 5 M4 29.05 dBV/m	Grid 6 M4 29.05 dBV/m
Grid 7 M4 28.61 dBV/m	Grid 8 M4 29.5 dBV/m	Grid 9 M4 29 dBV/m

Cursor:

Total = 29.50 dBV/m

E Category: M4

Location: 2, 24.5, 7.7 mm



0 dB = 29.84 V/m = 29.50 dBV/m

08_HAC RF_LTE Band 42_20M_QPSK_1RB_0Offset_Ch43490_E

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

Frequency: 3590 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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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)

Ch43490/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 = 42.38 V/m; Power Drift = -0.05 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.46 dBV/m

Emission category: M4

MIF scaled E-field

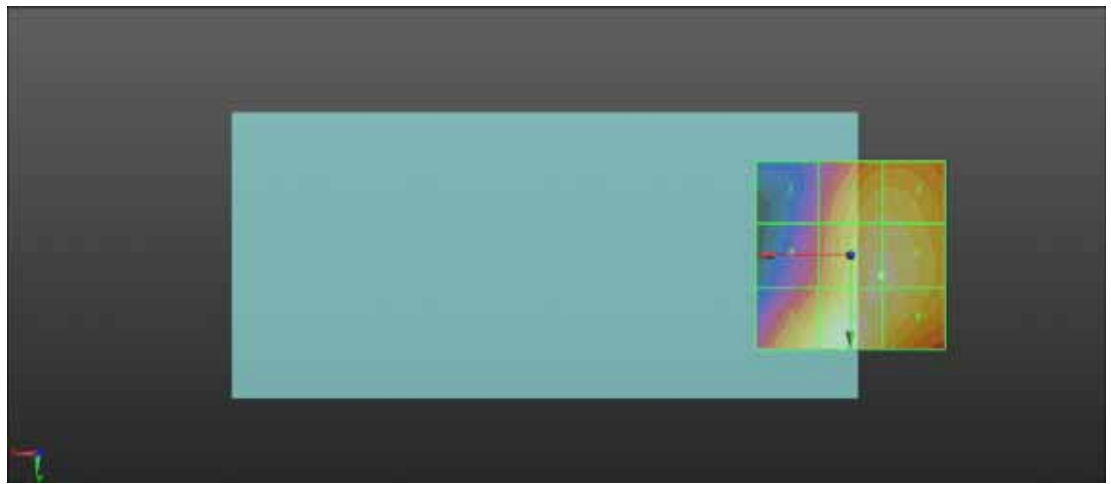
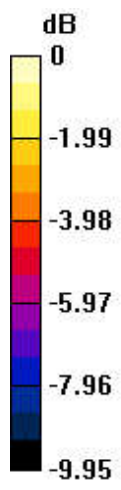
Grid 1 M4 24.45 dBV/m	Grid 2 M4 28.3 dBV/m	Grid 3 M4 28.3 dBV/m
Grid 4 M4 25.68 dBV/m	Grid 5 M4 29 dBV/m	Grid 6 M4 29 dBV/m
Grid 7 M4 28.61 dBV/m	Grid 8 M4 29.46 dBV/m	Grid 9 M4 28.92 dBV/m

Cursor:

Total = 29.46 dBV/m

E Category: M4

Location: 2, 24.5, 7.7 mm



0 dB = 29.72 V/m = 29.46 dBV/m

09_HAC RF_LTE Band 48_20M_QPSK_1RB_0Offset_Ch55340_E

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

Frequency: 3560 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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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)

Ch55340/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 = 41.04 V/m; Power Drift = 0.01 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.34 dBV/m

Emission category: M4

MIF scaled E-field

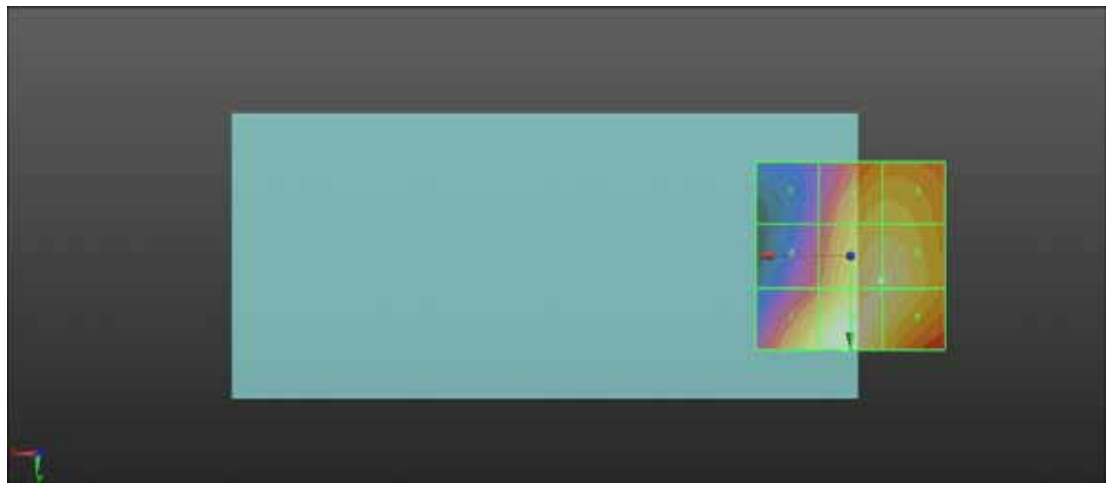
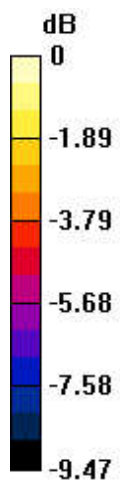
Grid 1 M4 24.12 dBV/m	Grid 2 M4 27.9 dBV/m	Grid 3 M4 27.91 dBV/m
Grid 4 M4 25.54 dBV/m	Grid 5 M4 28.84 dBV/m	Grid 6 M4 28.83 dBV/m
Grid 7 M4 28.6 dBV/m	Grid 8 M4 29.34 dBV/m	Grid 9 M4 28.8 dBV/m

Cursor:

Total = 29.34 dBV/m

E Category: M4

Location: 1.5, 24.5, 7.7 mm



0 dB = 29.32 V/m = 29.34 dBV/m

10_HAC RF_LTE Band 48_20M_QPSK_1RB_0Offset_Ch55830_E

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

Frequency: 3609 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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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)

Ch55830/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 = 42.77 V/m; Power Drift = -0.05 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.41 dBV/m

Emission category: M4

MIF scaled E-field

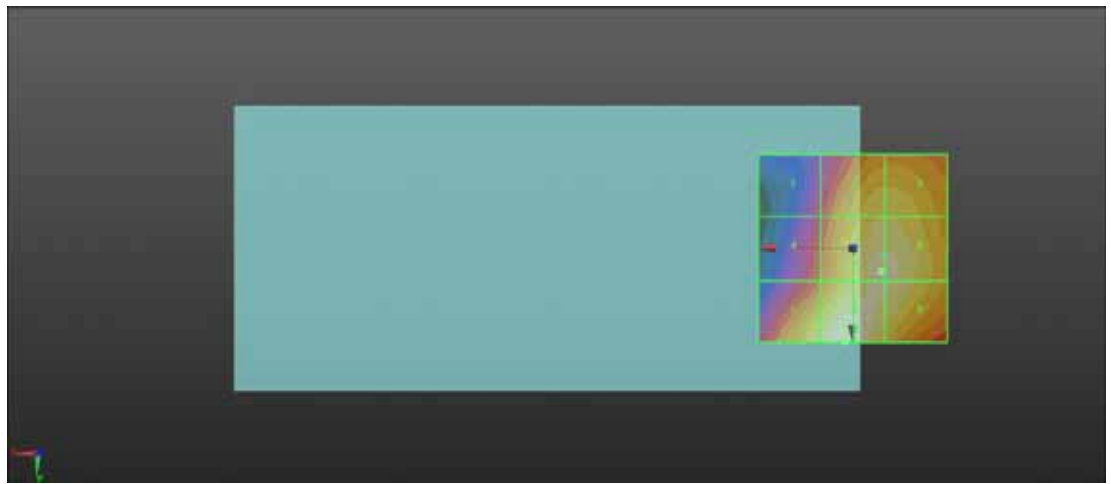
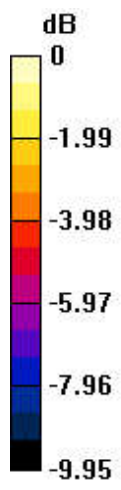
Grid 1 M4 24.56 dBV/m	Grid 2 M4 28.1 dBV/m	Grid 3 M4 28.1 dBV/m
Grid 4 M4 25.68 dBV/m	Grid 5 M4 28.98 dBV/m	Grid 6 M4 28.97 dBV/m
Grid 7 M4 28.48 dBV/m	Grid 8 M4 29.41 dBV/m	Grid 9 M4 28.91 dBV/m

Cursor:

Total = 29.41 dBV/m

E Category: M4

Location: 2, 25, 7.7 mm



0 dB = 29.54 V/m = 29.41 dBV/m

11_HAC RF_LTE Band 48_20M_QPSK_1RB_0Offset_Ch56150_E

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

Frequency: 3641 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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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)

Ch56150/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 = 43.85 V/m; Power Drift = 0.02 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.58 dBV/m

Emission category: M4

MIF scaled E-field

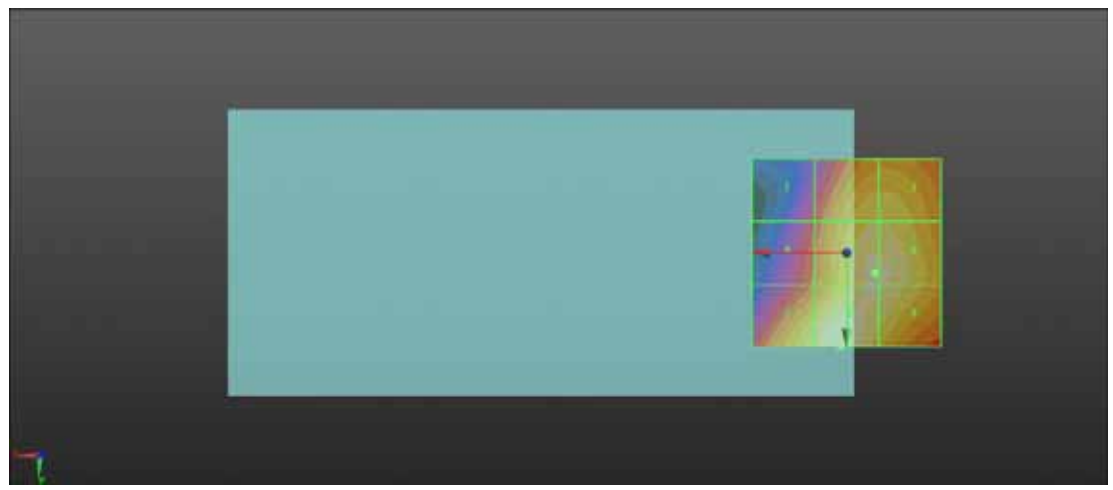
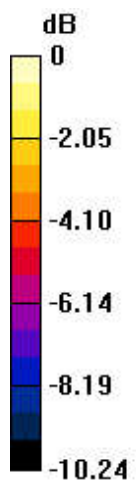
Grid 1 M4 24.74 dBV/m	Grid 2 M4 28.23 dBV/m	Grid 3 M4 28.23 dBV/m
Grid 4 M4 25.87 dBV/m	Grid 5 M4 29.1 dBV/m	Grid 6 M4 29.09 dBV/m
Grid 7 M4 28.75 dBV/m	Grid 8 M4 29.58 dBV/m	Grid 9 M4 29.01 dBV/m

Cursor:

Total = 29.58 dBV/m

E Category: M4

Location: 1.5, 25, 7.7 mm



0 dB = 30.12 V/m = 29.58 dBV/m

12_HAC RF_LTE Band 48_20M_QPSK_1RB_0Offset_Ch56640_E

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

Frequency: 3690 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: 2022/7/27

- Sensor-Surface: (Fix Surface)

- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30

- 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)

Ch56640/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 = 47.41 V/m; Power Drift = -0.02 dB

Applied MIF = -1.44 dB

RF audio interference level = 29.96 dBV/m

Emission category: M4

MIF scaled E-field

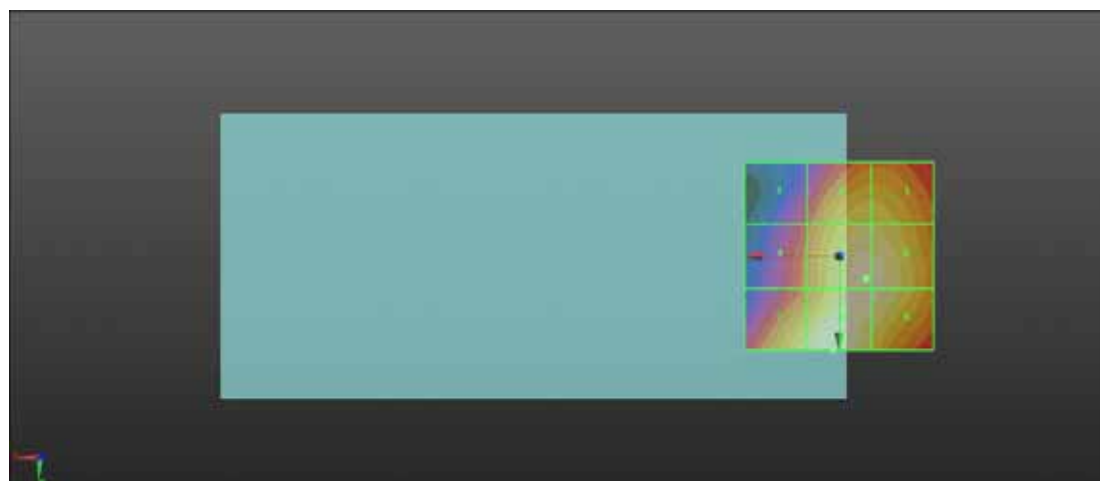
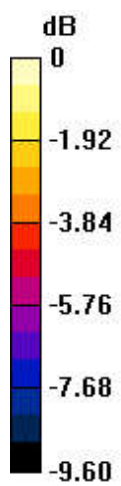
Grid 1 M4 25.82 dBV/m	Grid 2 M4 28.73 dBV/m	Grid 3 M4 28.68 dBV/m
Grid 4 M4 26.67 dBV/m	Grid 5 M4 29.66 dBV/m	Grid 6 M4 29.63 dBV/m
Grid 7 M4 29.1 dBV/m	Grid 8 M4 29.96 dBV/m	Grid 9 M4 29.57 dBV/m

Cursor:

Total = 29.96 dBV/m

E Category: M4

Location: 1.5, 25, 7.7 mm



0 dB = 31.48 V/m = 29.96 dBV/m

13_HAC RF_WLAN 2.4G_802.11g 6Mbps_Ch1_E

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2412 MHz; Duty Cycle: 1:12.5777

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: 2022/7/27
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30
- 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)

Ch1/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 = 37.07 V/m; Power Drift = -0.08 dB

Applied MIF = 0.12 dB

RF audio interference level = 28.77 dBV/m

Emission category: M4

MIF scaled E-field

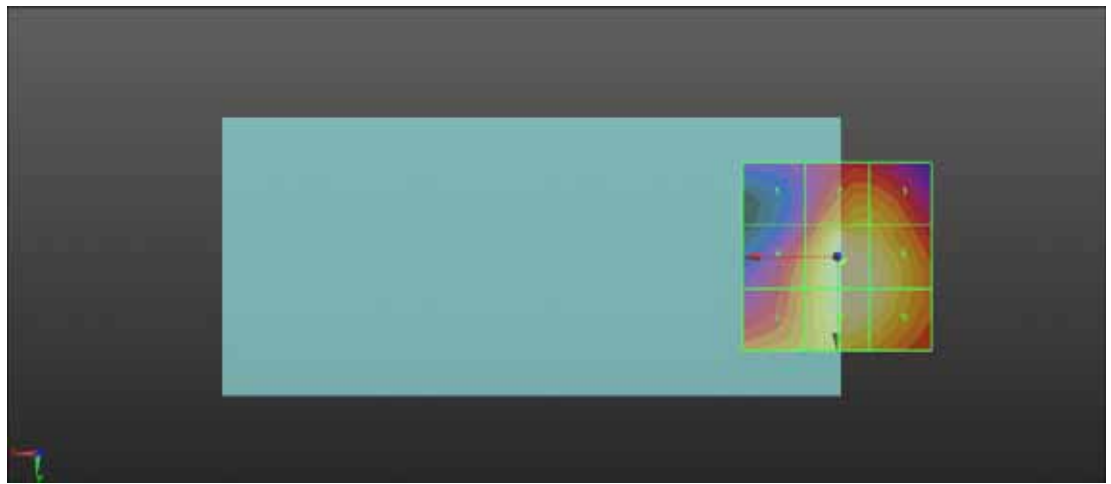
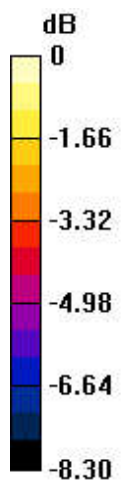
Grid 1 M4 24.32 dBV/m	Grid 2 M4 27.35 dBV/m	Grid 3 M4 27.27 dBV/m
Grid 4 M4 26.42 dBV/m	Grid 5 M4 28.77 dBV/m	Grid 6 M4 28.49 dBV/m
Grid 7 M4 26.86 dBV/m	Grid 8 M4 28.66 dBV/m	Grid 9 M4 28.44 dBV/m

Cursor:

Total = 28.77 dBV/m

E Category: M4

Location: -1.5, 1, 7.7 mm



0 dB = 27.44 V/m = 28.77 dBV/m

14_HAC RF_WLAN 2.4G_802.11g 6Mbps_Ch6_E

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2437 MHz; Duty Cycle: 1:12.5777

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: 2022/7/27
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30
- 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)

Ch6/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 = 34.35 V/m; Power Drift = -0.07 dB

Applied MIF = 0.12 dB

RF audio interference level = 28.30 dBV/m

Emission category: M4

MIF scaled E-field

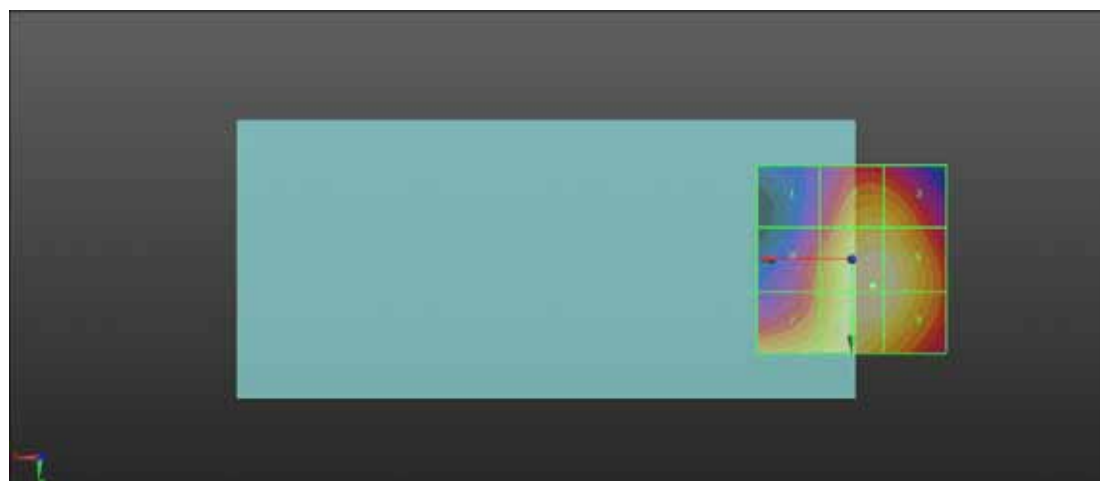
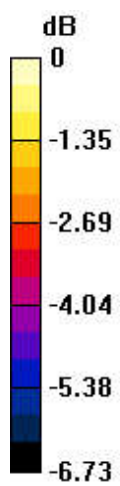
Grid 1 M4 24.71 dBV/m	Grid 2 M4 27.25 dBV/m	Grid 3 M4 27.18 dBV/m
Grid 4 M4 26.01 dBV/m	Grid 5 M4 28.3 dBV/m	Grid 6 M4 28.22 dBV/m
Grid 7 M4 27.36 dBV/m	Grid 8 M4 28.28 dBV/m	Grid 9 M4 28.17 dBV/m

Cursor:

Total = 28.30 dBV/m

E Category: M4

Location: -5.5, 7, 7.7 mm



0 dB = 25.99 V/m = 28.30 dBV/m

15_HAC RF_WLAN 2.4G_802.11g 6Mbps_Ch11_E

Communication System: UID 10077 - CAB, IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps); Frequency: 2462 MHz; Duty Cycle: 1:12.5777

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: 2022/7/27
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1664; Calibrated: 2022/5/30
- 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)

Ch11/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 = 42.89 V/m; Power Drift = 0.04 dB

Applied MIF = 0.12 dB

RF audio interference level = 29.89 dBV/m

Emission category: M4

MIF scaled E-field

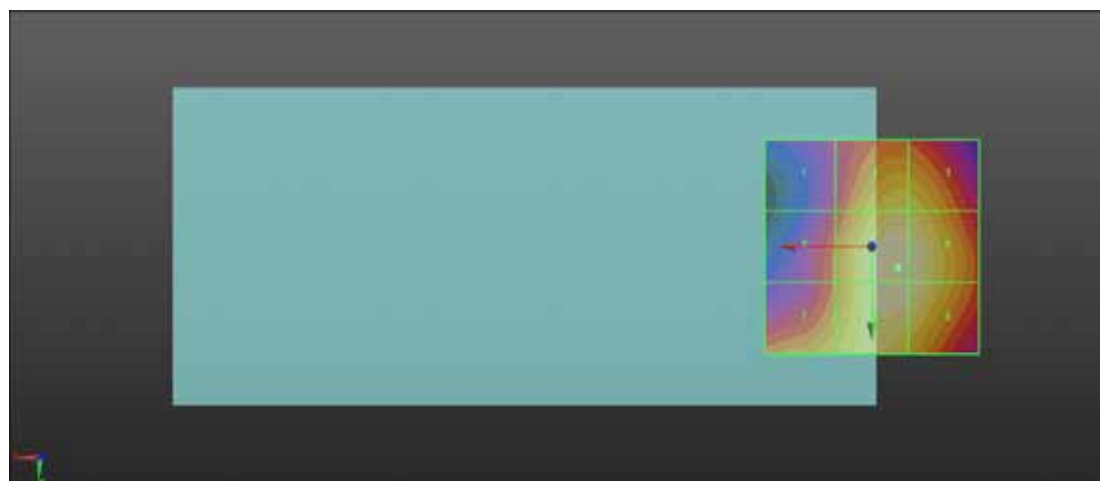
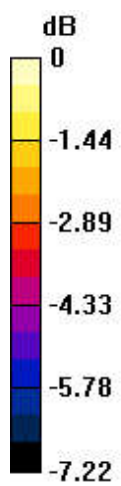
Grid 1 M4 26.3 dBV/m	Grid 2 M4 29 dBV/m	Grid 3 M4 28.91 dBV/m
Grid 4 M4 27.27 dBV/m	Grid 5 M4 29.89 dBV/m	Grid 6 M4 29.78 dBV/m
Grid 7 M4 28.52 dBV/m	Grid 8 M4 29.81 dBV/m	Grid 9 M4 29.67 dBV/m

Cursor:

Total = 29.89 dBV/m

E Category: M4

Location: -6, 5, 7.7 mm



0 dB = 31.21 V/m = 29.89 dBV/m



Appendix C. DASY Calibration Certificate

The DASY calibration certificates are shown as follows.