



DASY5 E-field Result

Date: 18.08.2020

Test Laboratory: SPEAG Lab2

DUT: HAC-Dipole 835 MHz; Type: CD835V3; Serial: CD835V3 - SN: 1023

Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: $\sigma=0$ S/m, $\epsilon_{r}=1;$ $\rho=0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

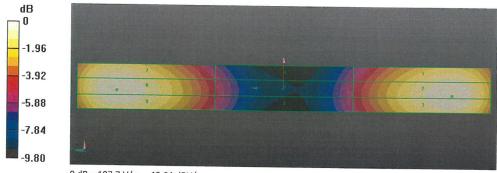
- Probe: EF3DV3 SN4013; ConvF(1, 1, 1) @ 835 MHz; Calibrated: 31.12.2019
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 27.12.2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole E-Field measurement @ 835MHz/E-Scan - 835MHz d=15mm/Hearing Aid Compatibility Test (41x361x1):

Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 128.0 V/m; Power Drift = -0.02 dB Applied MIF = 0.00 dB RF audio interference level = 40.64 dBV/m Emission category: M3

MIF scaled E-field

Grid 1 M3	Grid 2 M3	Grid 3 M3
40.19 dBV/m	40.64 dBV/m	40.62 dBV/m
Grid 4 M4	Grid 5 M4	Grid 6 M4
35.3 dBV/m	35.62 dBV/m	35.6 dBV/m
Grid 7 M3	Grid 8 M3	Grid 9 M3
40.33 dBV/m	40.61 dBV/m	40.55 dBV/m



0 dB = 107.7 V/m = 40.64 dBV/m

Certificate No: CD835V3-1023 Aug20

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Dipole 1880 MHz

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





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Swiss Calibration Service

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Multilateral Agreement for the recognition of calibration certificates

Client

CTTL-BJ (Auden)

Certificate No: CD1880V3-1018_Aug20

bject	CD1880V3 - SN:	1018	
alibration procedure(s)	QA CAL-20.v7 Calibration Proce	edure for Validation Sources in ai	r
alibration date:	August 18, 2020		
		onal standards, which realize the physical uni	
ne measurements and the uncert	tainties with confidence pr	robability are given on the following pages an	d are part of the certificate.
l calibrations have been conduct	ted in the closed laborator	ry facility: environment temperature (22 ± 3)°C	and humidity < 70%
r same and that o book contact	ed in the closed laborator	y lacinty. environment temperature (22 ± 3) C	and numbers 70%.
alibration Equipment used (M&TI	E critical for calibration)		
rimary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
ower meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/03101)	Apr-21
ower sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
ower sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
eference 20 dB Attenuator	SN: BH9394 (20k)	31-Mar-20 (No. 217-03106)	Apr-21
pe-N mismatch combination	SN: 310982 / 06327	31-Mar-20 (No. 217-03104)	Apr-21
robe EF3DV3	SN: 4013	31-Dec-19 (No. EF3-4013 Dec19)	Dec-20
AE4	SN: 781	27-Dec-19 (No. DAE4-781_Dec19)	Dec-20
econdary Standards	ID#	Check Date (in house)	Scheduled Check
ower meter Agilent 4419B	SN: GB42420191	09-Oct-09 (in house check Oct-17)	In house check: Oct-20
ower sensor HP E4412A	SN: US38485102	05-Jan-10 (in house check Oct-17)	In house check: Oct-20
AND TO A STATE OF THE STATE OF	SN: US37295597	09-Oct-09 (in house check Oct-17)	In house check: Oct-20
ower sensor HP 8482A	Harmon and the second s		
ower sensor HP 8482A F generator R&S SMT-06	SN: 837633/005	10-Jan-19 (in house check Jan-19)	In house check: Oct-20
	COUNTY BUILDING STREET	10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-19)	In house check: Oct-20 In house check: Oct-20
F generator R&S SMT-06 etwork Analyzer Agilent E8358A	SN: US41080477 Name	September 2014 Sept. 18 Control of Sept. 2015 Sept. 201	
F generator R&S SMT-06	SN: US41080477	31-Mar-14 (in house check Oct-19)	In house check: Oct-20
F generator R&S SMT-06 etwork Analyzer Agilent E8358A	SN: US41080477 Name	31-Mar-14 (in house check Oct-19) Function	In house check: Oct-20

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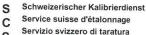




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Accreditation No.: SCS 0108

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Multilateral Agreement for the recognition of calibration certificates

References

[1] ANSI-C63.19-2011 American National Standard, Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- Coordinate System: y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna
 (mounted on the table) towards its feed point between the two dipole arms. x-axis is normal to the other axes.
 In coincidence with the standards [1], the measurement planes (probe sensor center) are selected to be at a
 distance of 15 mm above the top metal edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate. All
 figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector
 is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a
 directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the
- Feed Point Impedance and Return Loss: These parameters are measured using a Vector Network Analyzer.
 The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- E-field distribution: E field is measured in the x-y-plane with an isotropic E-field probe with 100 mW forward power to the antenna feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, in the plane above the dipole surface.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the
coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.
95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.4
Phantom	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution	dx, dy = 5 mm	
Frequency	1880 MHz ± 1 MHz	
Input power drift	< 0.05 dB	

Maximum Field values at 1880 MHz

E-field 15 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW input power	87.8 V/m = 38.87 dBV/m
Maximum measured above low end	100 mW input power	87.1 V/m = 38.80 dBV/m
Averaged maximum above arm	100 mW input power	87.4 V/m ± 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Frequency	Return Loss	Impedance
1730 MHz	27.9 dB	54.2 Ω + 0.5 jΩ
1880 MHz	22.4 dB	54.6 Ω + 6.5 jΩ
1900 MHz	22.8 dB	56.2 Ω + 4.5 jΩ
1950 MHz	31.8 dB	52.6Ω + $0.4 j\Omega$
2000 MHz	19.7 dB	47.6 Ω + 9.9 jΩ

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

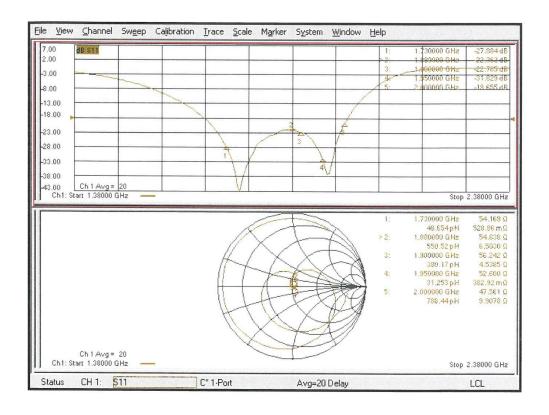
The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.



Impedance Measurement Plot



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DASY5 E-field Result

Date: 18.08.2020

Test Laboratory: SPEAG Lab2

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial: CD1880V3 - SN: 1018

Communication System: UID 0 - CW ; Frequency: 1880 MHz Medium parameters used: $\sigma=0$ S/m, $\epsilon_r=1;\,\rho=0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EF3DV3 - SN4013; ConvF(1, 1, 1) @ 1880 MHz; Calibrated: 31.12.2019

• Sensor-Surface: (Fix Surface)

• Electronics: DAE4 Sn781; Calibrated: 27.12.2019

Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole E-Field measurement @ 1880MHz/E-Scan - 1880MHz d=15mm/Hearing Aid Compatibility Test (41x181x1):

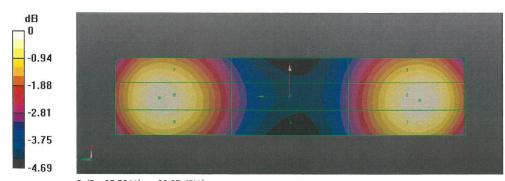
Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 156.4 V/m; Power Drift = 0.00 dB Applied MIF = 0.00 dB

RF audio interference level = 38.87 dBV/m

Emission category: M2

MIF scaled E-field

Grid 1 M2	Grid 2 M2	Grid 3 M2
38.55 dBV/m	38.87 dBV/m	38.82 dBV/m
Grid 4 M2	Grid 5 M2	Grid 6 M2
35.96 dBV/m	36.14 dBV/m	36.09 dBV/m
Grid 7 M2	Grid 8 M2	Grid 9 M2
38.55 dBV/m	38.8 dBV/m	38.7 dBV/m



0 dB = 87.78 V/m = 38.87 dBV/m

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Dipole 2600 MHz

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Client

CTTL-BJ (Auden)

Certificate No: CD2600V3-1017 Aug20

Object	CD2600V3 - SN	: 1017	
Calibration procedure(s)	QA CAL-20.v7 Calibration Procedure for Validation Sources in air		
Calibration date:	August 18, 2020		
This calibration certificate docume	ents the traceability to nati	ional standards, which realize the physical ur	nits of measurements (SI).
The measurements and the uncer	tainties with confidence p	robability are given on the following pages ar	nd are part of the certificate.
All calibrations have been conduct	ted in the closed laborato	ry facility: environment temperature (22 ± 3)°	C and humidity < 700/
		.,	o and numidity < 70%.
Calibration Equipment used (M&TI	E critical for calibration)		
Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/03101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NRP-Z91	SN: 103245	01-Apr-20 (No. 217-03101)	Apr-21
Reference 20 dB Attenuator	SN: BH9394 (20k)	31-Mar-20 (No. 217-03106)	Apr-21
Type-N mismatch combination	SN: 310982 / 06327	31-Mar-20 (No. 217-03104)	Apr-21
Probe EF3DV3	SN: 4013	31-Dec-19 (No. EF3-4013_Dec19)	Dec-20
DAE4	SN: 781	27-Dec-19 (No. DAE4-781_Dec19)	Dec-20
			Scheduled Check
Secondary Standards	ID#	Check Date (in house)	
	ID # SN: GB42420191		
Power meter Agilent 4419B		09-Oct-09 (in house check Oct-17)	In house check: Oct-20
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A	SN: GB42420191	09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17)	In house check: Oct-20 In house check: Oct-20
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A	SN: GB42420191 SN: US38485102	09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17)	In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06	SN: GB42420191 SN: US38485102 SN: US37295597	09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17)	In house check: Oct-20 In house check: Oct-20
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06	SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005	09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17) 10-Jan-19 (in house check Jan-19)	In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477	09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17) 10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-19)	In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 Signature
Secondary Standards Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06 Network Analyzer Agilent E8358A Calibrated by:	SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477	09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17) 10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-19) Function	In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 Signature
Power meter Agilent 4419B Power sensor HP E4412A Power sensor HP 8482A RF generator R&S SMT-06 Network Analyzer Agilent E8358A	SN: GB42420191 SN: US38485102 SN: US37295597 SN: 837633/005 SN: US41080477	09-Oct-09 (in house check Oct-17) 05-Jan-10 (in house check Oct-17) 09-Oct-09 (in house check Oct-17) 10-Jan-19 (in house check Jan-19) 31-Mar-14 (in house check Oct-19) Function	In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20 In house check: Oct-20

Certificate No: CD2600V3-1017_Aug20

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References

[1] ANSI-C63.19-2011 American National Standard, Methods of Measurement of Compatibility between Wireless Communications Devices and Hearing Aids.

Methods Applied and Interpretation of Parameters:

- Coordinate System: y-axis is in the direction of the dipole arms. z-axis is from the basis of the antenna
 (mounted on the table) towards its feed point between the two dipole arms. x-axis is normal to the other axes.
 In coincidence with the standards [1], the measurement planes (probe sensor center) are selected to be at a
 distance of 15 mm above the top metal edge of the dipole arms.
- Measurement Conditions: Further details are available from the hardcopies at the end of the certificate. All
 figures stated in the certificate are valid at the frequency indicated. The forward power to the dipole connector
 is set with a calibrated power meter connected and monitored with an auxiliary power meter connected to a
 directional coupler. While the dipole under test is connected, the forward power is adjusted to the same level.
- Antenna Positioning: The dipole is mounted on a HAC Test Arch phantom using the matching dipole positioner with the arms horizontal and the feeding cable coming from the floor. The measurements are performed in a shielded room with absorbers around the setup to reduce the reflections. It is verified before the mounting of the dipole under the Test Arch phantom, that its arms are perfectly in a line. It is installed on the HAC dipole positioner with its arms parallel below the dielectric reference wire and able to move elastically in vertical direction without changing its relative position to the top center of the Test Arch phantom. The vertical distance to the probe is adjusted after dipole mounting with a DASY5 Surface Check job. Before the measurement, the distance between phantom surface and probe tip is verified. The proper measurement distance is selected by choosing the matching section of the HAC Test Arch phantom with the proper device reference point (upper surface of the dipole) and the matching grid reference point (tip of the probe) considering the probe sensor offset. The vertical distance to the probe is essential for the accuracy.
- Feed Point Impedance and Return Loss: These parameters are measured using a Vector Network Analyzer.
 The impedance is specified at the SMA connector of the dipole. The influence of reflections was eliminating by applying the averaging function while moving the dipole in the air, at least 70cm away from any obstacles.
- E-field distribution: E field is measured in the x-y-plane with an isotropic E-field probe with 100 mW forward power to the antenna feed point. In accordance with [1], the scan area is 20mm wide, its length exceeds the dipole arm length (180 or 90mm). The sensor center is 15 mm (in z) above the metal top of the dipole arms. Two 3D maxima are available near the end of the dipole arms. Assuming the dipole arms are perfectly in one line, the average of these two maxima (in subgrid 2 and subgrid 8) is determined to compensate for any non-parallelity to the measurement plane as well as the sensor displacement. The E-field value stated as calibration value represents the maximum of the interpolated 3D-E-field, in the plane above the dipole surface.

The reported uncertainty of measurement is stated as the standard uncertainty	h. of
The reported uncertainty of measurement is stated as the standard uncertain	ty of measurement multiplied by the
coverage factor k=2 which for a normal distribution parameter to	
coverage factor k=2, which for a normal distribution corresponds to a coverage	ge probability of approximately 95%

Certificate No: CD2600V3-1017_Aug20	Page 2 of 5	





Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY5	V52.10.4
Phantom	HAC Test Arch	
Distance Dipole Top - Probe Center	15 mm	
Scan resolution	dx, dy = 5 mm	
Frequency	2600 MHz ± 1 MHz	
Input power drift	< 0.05 dB	

Maximum Field values at 2600 MHz

E-field 15 mm above dipole surface	condition	Interpolated maximum
Maximum measured above high end	100 mW input power	84.0 V/m = 38.48 dBV/m
Maximum measured above low end	100 mW input power	83.8 V/m = 38.46 dBV/m
Averaged maximum above arm	100 mW input power	83.9 V/m ± 12.8 % (k=2)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

Frequency	Return Loss	Impedance
2450 MHz	23.8 dB	44.1 Ω + 1.5 jΩ
2550 MHz	22.0 dB	57.5 Ω + 4.1 jΩ
2600 MHz	20.6 dB	59.4 Ω - 3.8 jΩ
2650 MHz	19.3 dB	55.0 Ω - 10.2 jΩ
2750 MHz	15.7 dB	41.3 Ω - 12.3 jΩ

3.2 Antenna Design and Handling

The calibration dipole has a symmetric geometry with a built-in two stub matching network, which leads to the enhanced bandwidth.

The dipole is built of standard semirigid coaxial cable. The internal matching line is open ended. The antenna is therefore open for DC signals.

Do not apply force to dipole arms, as they are liable to bend. The soldered connections near the feedpoint may be damaged. After excessive mechanical stress or overheating, check the impedance characteristics to ensure that the internal matching network is not affected.

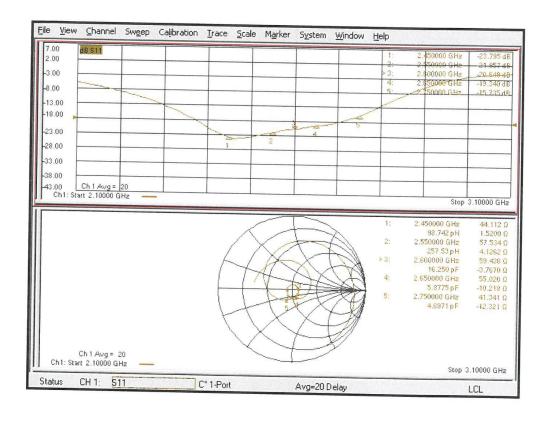
After long term use with 40W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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Impedance Measurement Plot



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DASY5 E-field Result

Date: 18.08.2020

Test Laboratory: SPEAG Lab2

DUT: HAC Dipole 2600 MHz; Type: CD2600V3; Serial: CD2600V3 - SN: 1017

Communication System: UID 0 - CW; Frequency: 2600 MHz Medium parameters used: $\sigma = 0$ S/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EF3DV3 SN4013; ConvF(1, 1, 1) @ 2600 MHz; Calibrated: 31.12.2019
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn781; Calibrated: 27.12.2019
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1070
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Dipole E-Field measurement @ 2600MHz/E-Scan - 2600MHz d=15mm/Hearing Aid Compatibility Test (41x181x1):

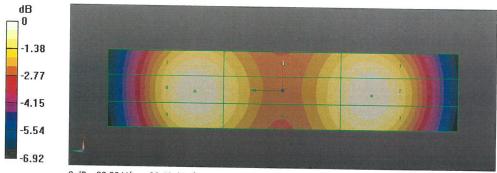
Interpolated grid: dx=0.5000 mm, dy=0.5000 mm Device Reference Point: 0, 0, -6.3 mm Reference Value = 65.44 V/m; Power Drift = 0.01 dB Applied MIF = 0.00 dB

RF audio interference level = 38.48 dBV/m

Emission category: M2

MIF scaled E-field

Grid 1 M2	Grid 2 M2	Grid 3 M2
38.23 dBV/m	38.48 dBV/m	38.41 dBV/m
Grid 4 M2	Grid 5 M2	Grid 6 M2
37.58 dBV/m	37.78 dBV/m	37.71 dBV/m
Grid 7 M2	Grid 8 M2	Grid 9 M2
38.22 dBV/m	38.46 dBV/m	38.35 dBV/m



0 dB = 83.99 V/m = 38.48 dBV/m

Certificate No: CD2600V3-1017_Aug20

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The photos of HAC test are presented in the additional document:

Appendix to test report No.I21Z60782-SEM04/05

The photos of HAC test