Appendix B. SAR Measurement Plots

Table of contents
HAC Measurement plots of GSM850
HAC Measurement plots of GSM1900

Test Laboratory: HUAWEI SAR/HAC Lab

HAC_ER3DV6_H1611-GSM850-251CH

DUT: H1611; Type: Smart Phone; Serial: SAR1

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 848.8 MHz;Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3

Phantom section: RF Section

DASY Configuration:

- ¿ Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2015-11-25;
- ¿ Sensor-Surface: (Fix Surface), z = 8.7
- ¿ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ¿ Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- ¿ DASY52 52.8.8(1222);

Device E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 65.54 V/m; Power Drift = -0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 38.21 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 **M4** 36.42 dBV/m	Grid 2 **M4** 37.7 dBV/m	Grid 3 **M4** 37.66 dBV/m
Grid 4 **M4** 36.73 dBV/m	Grid 5 **M4** 38.21 dBV/m	Grid 6 **M4** 38.19 dBV/m
Grid 7 **M4** 37.15 dBV/m	Grid 8 **M4** 38.37 dBV/m	Grid 9 **M4** 38.35 dBV/m

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 38.37 dBV/m

E Category: M4

Location: -6, 21.5, 8.7 mm
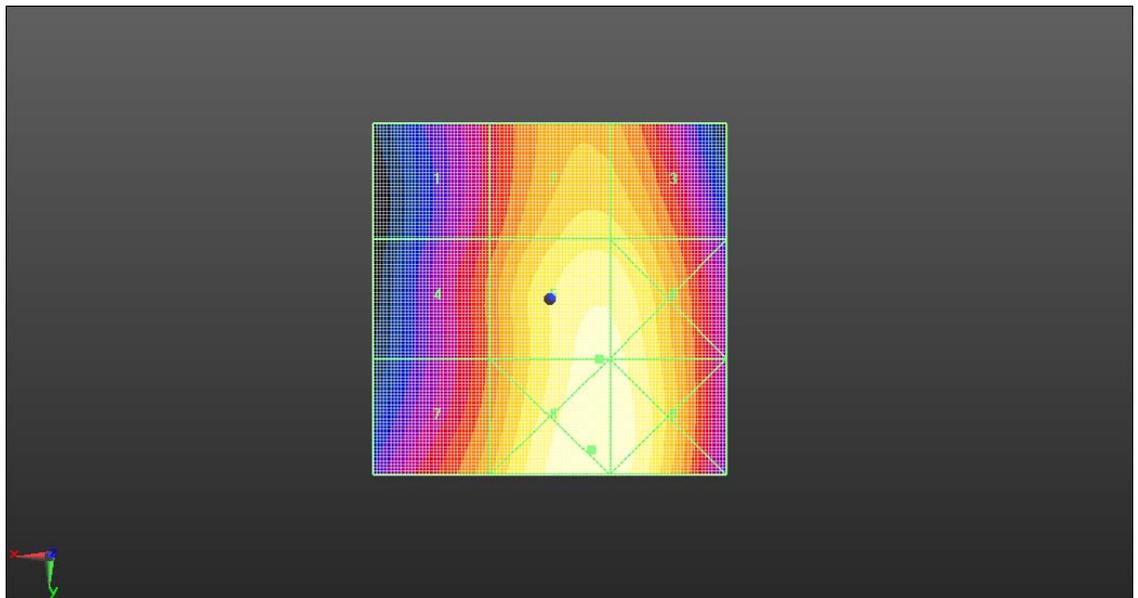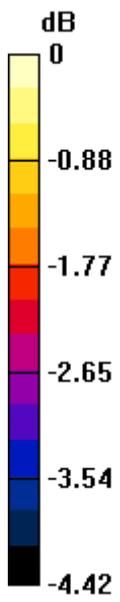
0 dB = 82.93 V/m = 38.37 dBV/m

Test Laboratory: HUAWEI SAR/HAC Lab

HAC_ER3DV6_H1611-GSM850-190CH

DUT: H1611; Type: Smart Phone; Serial: SAR1

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 836.6 MHz;Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3

Phantom section: RF Section

DASY Configuration:

- ¿ Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2015-11-25;
- ¿ Sensor-Surface: (Fix Surface), z = 8.7
- ¿ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ¿ Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- ¿ DASY52 52.8.8(1222);

Device E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 58.24 V/m; Power Drift = 0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 37.24 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 **M4** 35.3 dBV/m	Grid 2 **M4** 36.66 dBV/m	Grid 3 **M4** 36.65 dBV/m
Grid 4 **M4** 35.64 dBV/m	Grid 5 **M4** 37.24 dBV/m	Grid 6 **M4** 37.21 dBV/m
Grid 7 **M4** 36.19 dBV/m	Grid 8 **M4** 37.42 dBV/m	Grid 9 **M4** 37.4 dBV/m

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 37.42 dBV/m

E Category: M4

Location: -6.5, 22, 8.7 mm
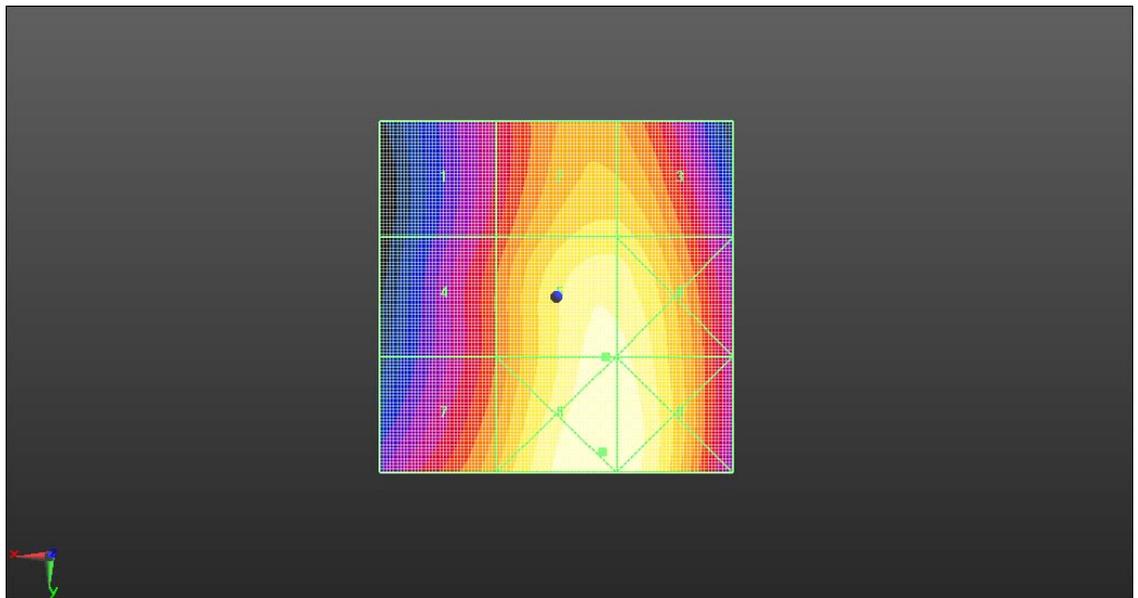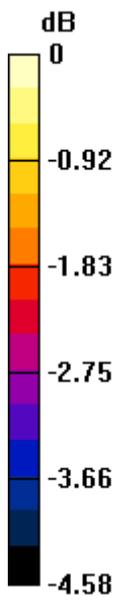
0 dB = 74.28 V/m = 37.42 dBV/m

Test Laboratory: HUAWEI SAR/HAC Lab

HAC_ER3DV6_H1611-GSM850-128CH

DUT: H1611; Type: Smart Phone; Serial: SAR1

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 824.2 MHz;Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3

Phantom section: RF Section

DASY Configuration:

- ¿ Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2015-11-25;
- ¿ Sensor-Surface: (Fix Surface), z = 8.7
- ¿ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ¿ Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- ¿ DASY52 52.8.8(1222);

Device E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 49.99 V/m; Power Drift = 0.04 dB
Applied MIF = 3.63 dB
RF audio interference level = 35.88 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 **M4** 33.96 dBV/m	Grid 2 **M4** 35.36 dBV/m	Grid 3 **M4** 35.32 dBV/m
Grid 4 **M4** 34.26 dBV/m	Grid 5 **M4** 35.88 dBV/m	Grid 6 **M4** 35.87 dBV/m
Grid 7 **M4** 34.8 dBV/m	Grid 8 **M4** 36.06 dBV/m	Grid 9 **M4** 36.04 dBV/m

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:
Total = 36.06 dBV/m
E Category: M4
Location: -6.5, 21, 8.7 mm
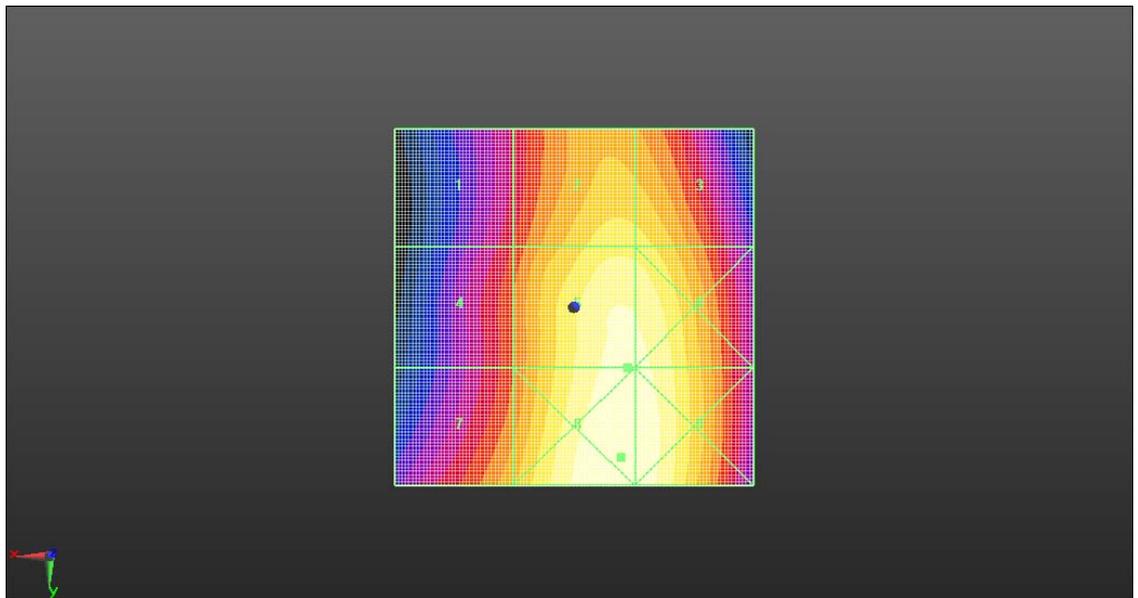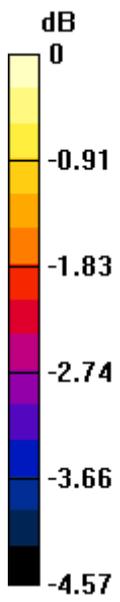
0 dB = 63.51 V/m = 36.06 dBV/m

Test Laboratory: HUAWEI SAR/HAC Lab

HAC_ER3DV6_H1611-GSM1900-810CH

DUT: H1611; Type: Smart Phone; Serial: SAR1

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1909.8 MHz;Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3

Phantom section: RF Section

DASY Configuration:

- ¿ Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2015-11-25;
- ¿ Sensor-Surface: (Fix Surface), z = 8.7
- ¿ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ¿ Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- ¿ DASY52 52.8.8(1222);

Device E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 10.41 V/m; Power Drift = 0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 24.39 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 **M4** **23.04 dBV/m**	Grid 2 **M4** **24.29 dBV/m**	Grid 3 **M4** **24.2 dBV/m**
Grid 4 **M4** **20.59 dBV/m**	Grid 5 **M4** **24.39 dBV/m**	Grid 6 **M4** **24.42 dBV/m**
Grid 7 **M4** **24.08 dBV/m**	Grid 8 **M4** **26.92 dBV/m**	Grid 9 **M4** **26.92 dBV/m**

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 26.92 dBV/m

E Category: M4

Location: -8.5, 25, 8.7 mm
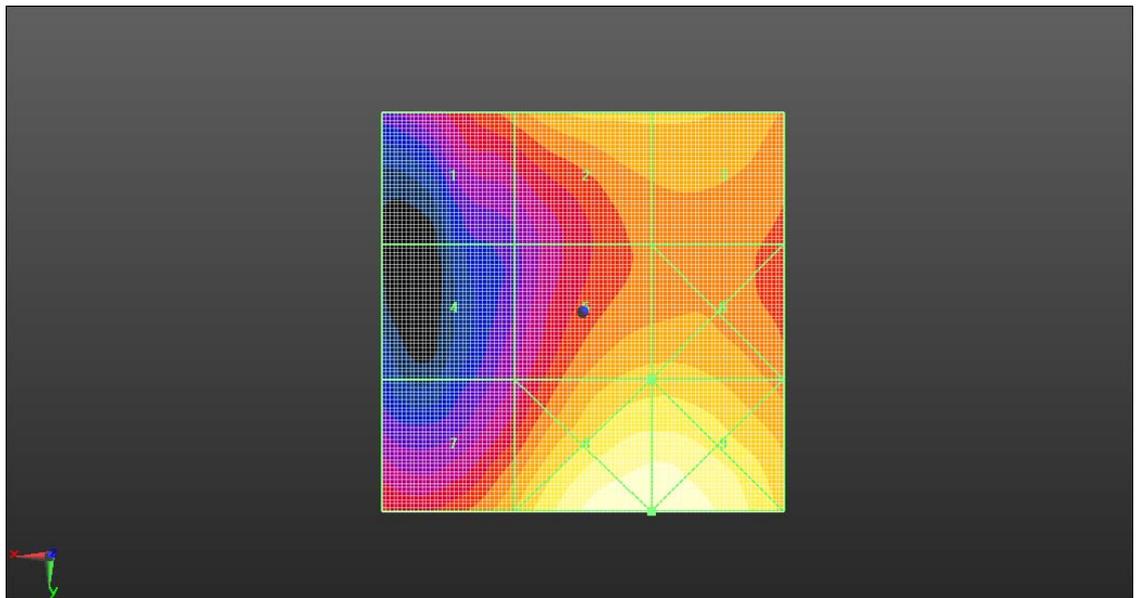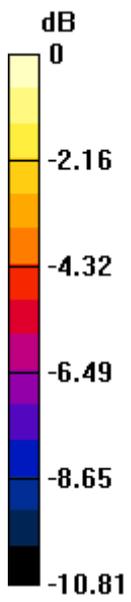
0 dB = 22.18 V/m = 26.92 dBV/m

Test Laboratory: HUAWEI SAR/HAC Lab

HAC_ER3DV6_H1611-GSM1900-661CH

DUT: H1611; Type: Smart Phone; Serial: SAR1

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1880 MHz;Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3

Phantom section: RF Section

DASY Configuration:

- ¿ Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2015-11-25;
- ¿ Sensor-Surface: (Fix Surface), z = 8.7
- ¿ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ¿ Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- ¿ DASY52 52.8.8(1222);

Device E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 11.87 V/m; Power Drift = -0.03 dB

Applied MIF = 3.63 dB

RF audio interference level = 26.15 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 **M4** 21.3 dBV/m	Grid 2 **M4** 25.02 dBV/m	Grid 3 **M4** 26.15 dBV/m
Grid 4 **M4** 23.63 dBV/m	Grid 5 **M4** 25.74 dBV/m	Grid 6 **M4** 25.74 dBV/m
Grid 7 **M4** 26.73 dBV/m	Grid 8 **M4** 28.49 dBV/m	Grid 9 **M4** 28.41 dBV/m

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 28.49 dBV/m

E Category: M4

Location: -5.5, 25, 8.7 mm
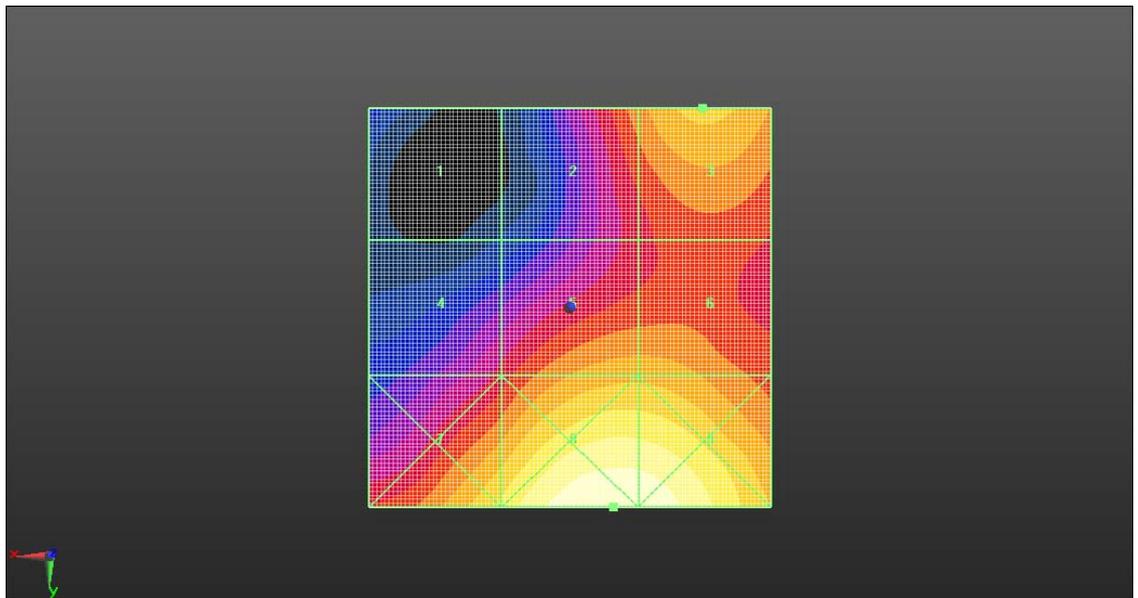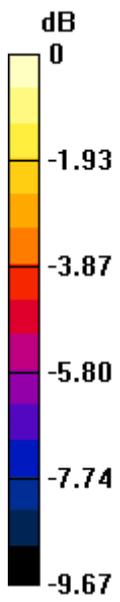
0 dB = 26.57 V/m = 28.49 dBV/m

Test Laboratory: HUAWEI SAR/HAC Lab

HAC_ER3DV6_H1611-GSM1900-512CH

DUT: H1611; Type: Smart Phone; Serial: SAR1

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 1850.2 MHz;Duty Cycle: 1:8.6896

Medium parameters used: $\sigma = 0$ S/m, $\varepsilon_r = 1$; $\rho = 0$ kg/m^3

Phantom section: RF Section

DASY Configuration:

- ¿ Probe: ER3DV6 - SN2441; ConvF(1, 1, 1); Calibrated: 2015-11-25;
- ¿ Sensor-Surface: (Fix Surface), z = 8.7
- ¿ Electronics: DAE4 Sn851; Calibrated: 2015-7-20
- ¿ Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial: 1053
- ¿ DASY52 52.8.8(1222);

Device E-Field measurement (E-field scan for ANSI C63.19-2011 compliance)/E Scan - ER3D: 15 mm from Probe Center to the Device/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 = 9.887 V/m; Power Drift = -0.08 dB

Applied MIF = 3.63 dB

RF audio interference level = 27.59 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 **M4** 21.03 dBV/m	Grid 2 **M4** 26.59 dBV/m	Grid 3 **M4** 27.59 dBV/m
Grid 4 **M4** 22.71 dBV/m	Grid 5 **M4** 24.79 dBV/m	Grid 6 **M4** 25.55 dBV/m
Grid 7 **M4** 26.48 dBV/m	Grid 8 **M4** 27.79 dBV/m	Grid 9 **M4** 27.68 dBV/m

Category	Limits for E-Field Emissions < 960MHz	Limits for E-Field Emissions > 960MHz
M1	50 dBV/m - 55 dB V/m	40 dBV/m - 45 dB V/m
M2	45 dBV/m - 50 dB V/m	35 dBV/m - 40 dB V/m
M3	40 dBV/m - 45 dB V/m	30 dBV/m - 35 dB V/m
M4	<40 dBV/m	<30 dBV/m

Cursor:

Total = 27.79 dBV/m

E Category: M4

Location: -5, 25, 8.7 mm

0 dB = 24.53 V/m = 27.79 dBV/m