



Appendix B

Detailed Test Results

1. GSM
GSM850 for E-Field Emission
GSM1900 for E-Field Emission
2. TDD LTE
LTE Band41 for E-Field Emission

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-GSM850 128CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

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

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/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 = 36.91 V/m; Power Drift = -0.04 dB

Applied MIF = 3.63 dB

RF audio interference level = 32.82 dBV/m

Emission category: M4

MIF scaled E-field

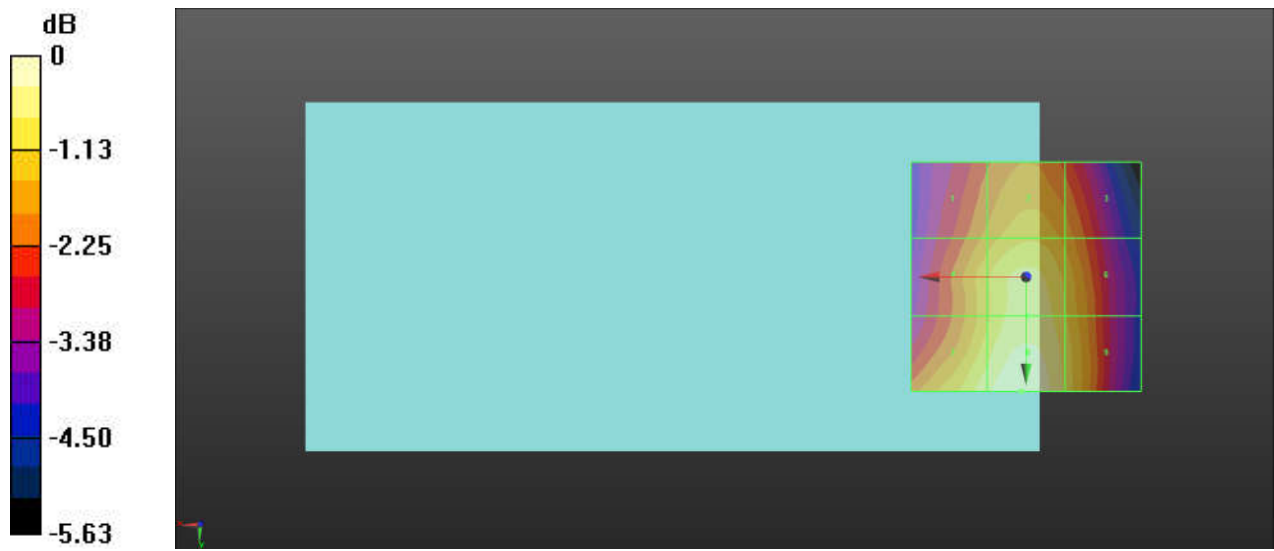
Grid 1 M4 31.1 dBV/m	Grid 2 M4 31.65 dBV/m	Grid 3 M4 31.2 dBV/m
Grid 4 M4 31.66 dBV/m	Grid 5 M4 32.31 dBV/m	Grid 6 M4 31.75 dBV/m
Grid 7 M4 32.37 dBV/m	Grid 8 M4 32.82 dBV/m	Grid 9 M4 31.99 dBV/m

Cursor:

Total = 32.82 dBV/m

E Category: M4

Location: 1, 25, 7.7 mm



0 dB = 43.75 V/m = 32.82 dBV/m

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-GSM850 190CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

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

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 2/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 = 37.67 V/m; Power Drift = 0.06 dB

Applied MIF = 3.63 dB

RF audio interference level = 33.28 dBV/m

Emission category: M4

MIF scaled E-field

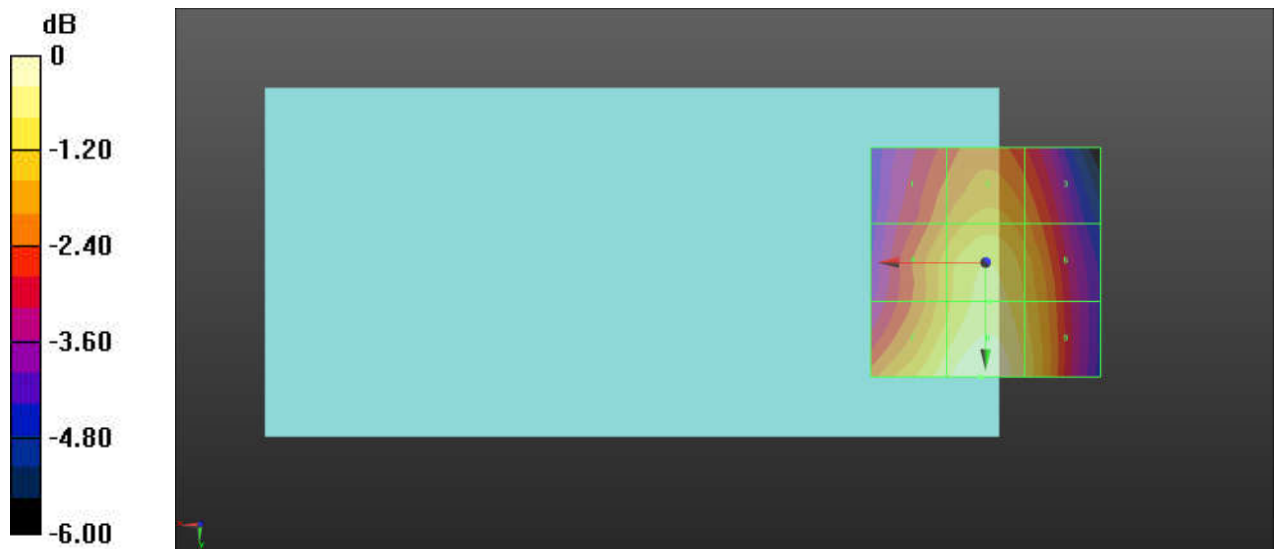
Grid 1 M4 31.34 dBV/m	Grid 2 M4 31.9 dBV/m	Grid 3 M4 31.43 dBV/m
Grid 4 M4 31.96 dBV/m	Grid 5 M4 32.63 dBV/m	Grid 6 M4 32.11 dBV/m
Grid 7 M4 32.79 dBV/m	Grid 8 M4 33.28 dBV/m	Grid 9 M4 32.45 dBV/m

Cursor:

Total = 33.28 dBV/m

E Category: M4

Location: 1, 25, 7.7 mm



0 dB = 46.12 V/m = 33.28 dBV/m

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-GSM850 251CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

Communication System: UID 10021 - DAB, GSM-FDD (TDMA, GMSK); Frequency: 848.6 MHz; Duty Cycle: 1:8.6896

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 3/Hearing Aid Compatibility Test (101x101x1): Interpolated grid: dx=0.5000 mm, dy=0.5000 mm

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 27.46 V/m; Power Drift = 0.09 dB

Applied MIF = 3.63 dB

RF audio interference level = 30.53 dBV/m

Emission category: M4

MIF scaled E-field

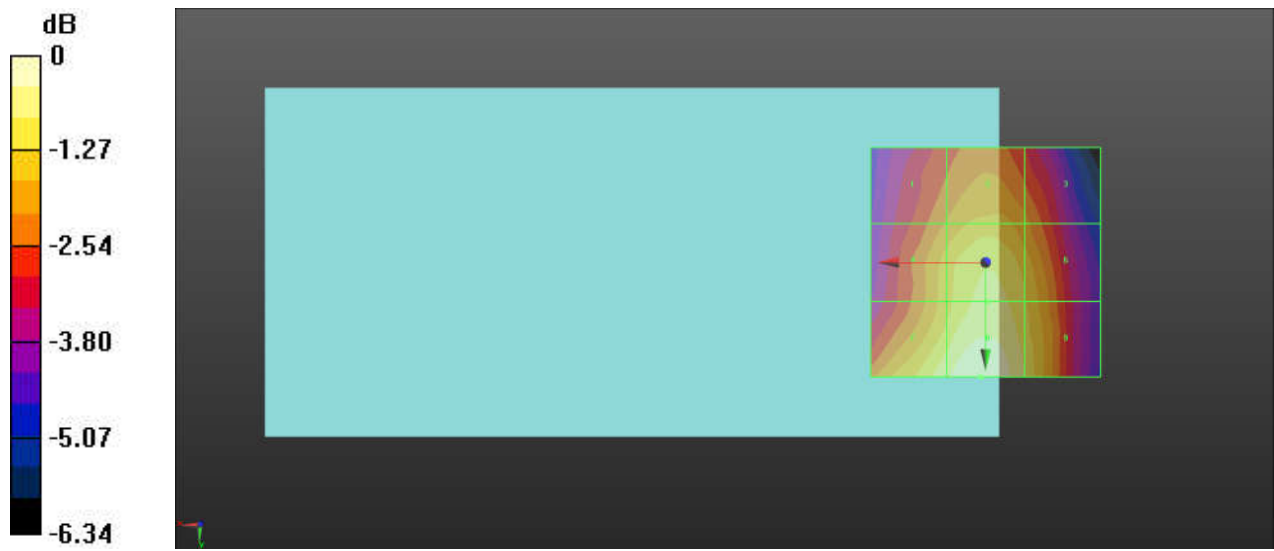
Grid 1 M4 28.48 dBV/m	Grid 2 M4 29 dBV/m	Grid 3 M4 28.57 dBV/m
Grid 4 M4 29.11 dBV/m	Grid 5 M4 29.84 dBV/m	Grid 6 M4 29.32 dBV/m
Grid 7 M4 30.05 dBV/m	Grid 8 M4 30.53 dBV/m	Grid 9 M4 29.67 dBV/m

Cursor:

Total = 30.53 dBV/m

E Category: M4

Location: 1, 25, 7.7 mm



0 dB = 33.62 V/m = 30.53 dBV/m

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-GSM1900 512CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

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

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 4/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 = 16.52 V/m; Power Drift = -0.01 dB

Applied MIF = 3.63 dB

RF audio interference level = 34.27 dBV/m

Emission category: M3

MIF scaled E-field

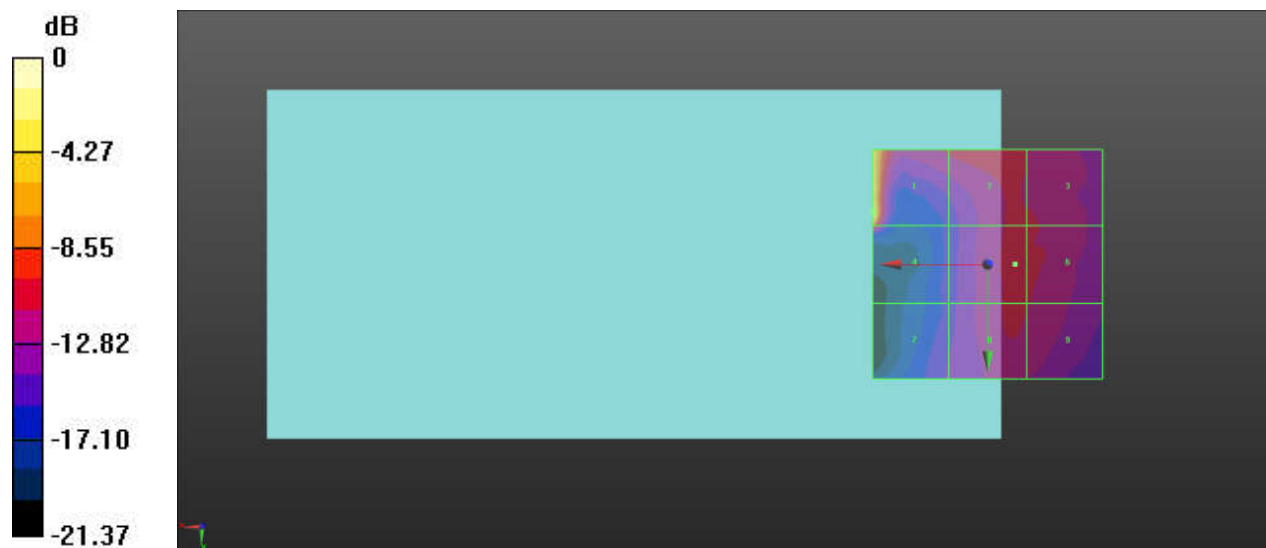
Grid 1 M3 34.27 dBV/m	Grid 2 M4 23.78 dBV/m	Grid 3 M4 23.06 dBV/m
Grid 4 M4 26.77 dBV/m	Grid 5 M4 23.32 dBV/m	Grid 6 M4 23.12 dBV/m
Grid 7 M4 20.33 dBV/m	Grid 8 M4 23.22 dBV/m	Grid 9 M4 22.97 dBV/m

Cursor:

Total = 34.27 dBV/m

E Category: M3

Location: 25, -11.5, 7.7 mm



0 dB = 51.72 V/m = 34.27 dBV/m

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-GSM1900 661CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

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

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 5/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 = 12.21 V/m; Power Drift = 0.07 dB

Applied MIF = 3.63 dB

RF audio interference level = 23.39 dBV/m

Emission category: M4

MIF scaled E-field

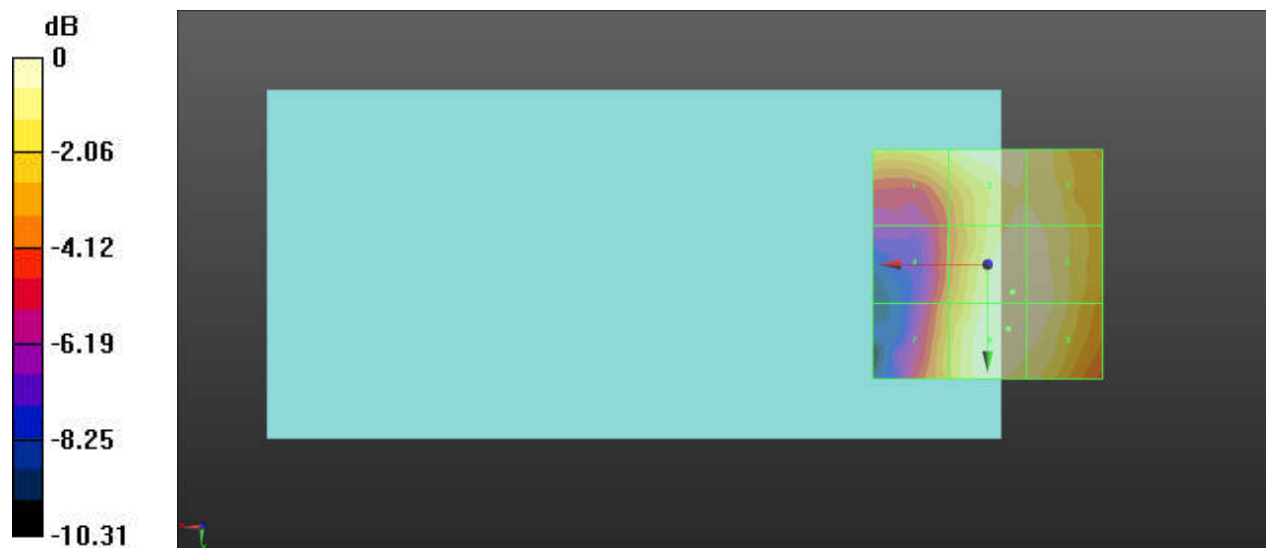
Grid 1 M4 22.47 dBV/m	Grid 2 M4 23.31 dBV/m	Grid 3 M4 22.87 dBV/m
Grid 4 M4 20.31 dBV/m	Grid 5 M4 23.39 dBV/m	Grid 6 M4 23.26 dBV/m
Grid 7 M4 21.2 dBV/m	Grid 8 M4 23.39 dBV/m	Grid 9 M4 23.26 dBV/m

Cursor:

Total = 23.39 dBV/m

E Category: M4

Location: -4.5, 14, 7.7 mm



0 dB = 14.78 V/m = 23.39 dBV/m

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-GSM1900 810CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

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

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 6/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 = 12.31 V/m; Power Drift = -0.16 dB

Applied MIF = 3.63 dB

RF audio interference level = 24.84 dBV/m

Emission category: M4

MIF scaled E-field

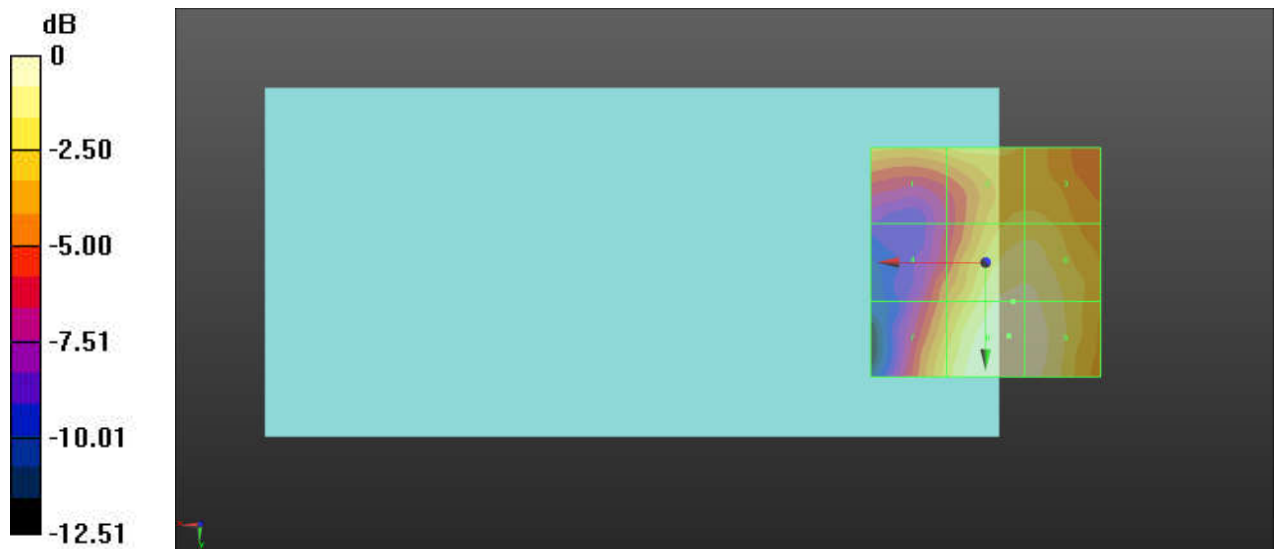
Grid 1 M4 22.22 dBV/m	Grid 2 M4 22.88 dBV/m	Grid 3 M4 22.7 dBV/m
Grid 4 M4 20.75 dBV/m	Grid 5 M4 24.38 dBV/m	Grid 6 M4 24.3 dBV/m
Grid 7 M4 22.77 dBV/m	Grid 8 M4 24.84 dBV/m	Grid 9 M4 24.61 dBV/m

Cursor:

Total = 24.84 dBV/m

E Category: M4

Location: -5, 16, 7.7 mm



0 dB = 17.45 V/m = 24.84 dBV/m

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-LTE Band 41 PC3 20M QPSK 1RB0 40140CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 2545 MHz; Duty Cycle: 1:8.33681

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 6 2/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 = 16.00 V/m; Power Drift = 0.08 dB

Applied MIF = -1.62 dB

RF audio interference level = 24.14 dBV/m

Emission category: M4

MIF scaled E-field

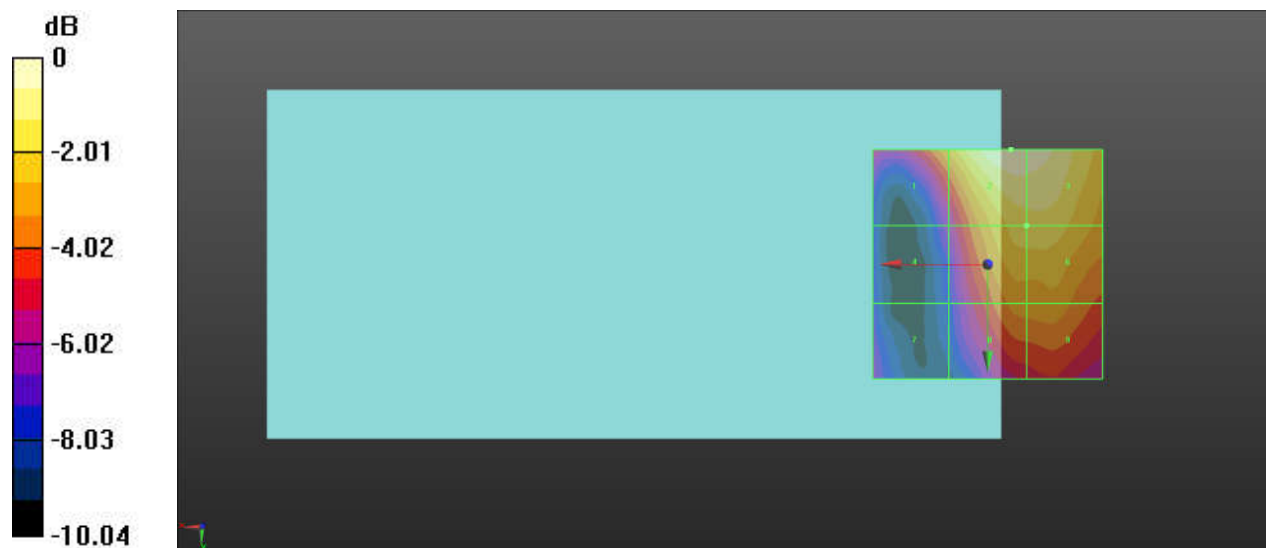
Grid 1 M4 21.65 dBV/m	Grid 2 M4 24.14 dBV/m	Grid 3 M4 23.94 dBV/m
Grid 4 M4 18.01 dBV/m	Grid 5 M4 22.52 dBV/m	Grid 6 M4 22.57 dBV/m
Grid 7 M4 17.75 dBV/m	Grid 8 M4 21.12 dBV/m	Grid 9 M4 21.22 dBV/m

Cursor:

Total = 24.14 dBV/m

E Category: M4

Location: -5, -25, 7.7 mm



0 dB = 16.11 V/m = 24.14 dBV/m

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-LTE Band 41 PC3 20M QPSK 1RB0 40473CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 2578.3 MHz; Duty Cycle: 1:8.33681

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 6 3/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 = 15.04 V/m; Power Drift = 0.11 dB

Applied MIF = -1.62 dB

RF audio interference level = 23.81 dBV/m

Emission category: M4

MIF scaled E-field

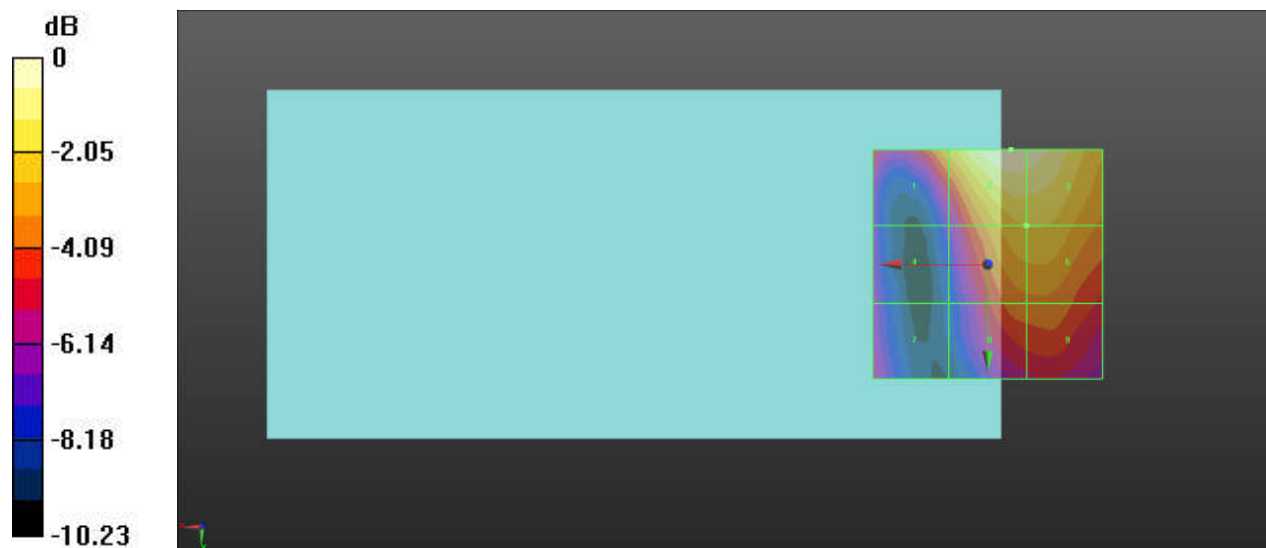
Grid 1 M4 21.32 dBV/m	Grid 2 M4 23.81 dBV/m	Grid 3 M4 23.59 dBV/m
Grid 4 M4 17.56 dBV/m	Grid 5 M4 21.79 dBV/m	Grid 6 M4 21.82 dBV/m
Grid 7 M4 18.28 dBV/m	Grid 8 M4 20.21 dBV/m	Grid 9 M4 20.27 dBV/m

Cursor:

Total = 23.80 dBV/m

E Category: M4

Location: -5, -25, 7.7 mm



Test Laboratory: SGS-SAR Lab

B63 HAC-RF-LTE Band 41 PC3 20M QPSK 1RB0 40807CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 2611.7 MHz; Duty Cycle: 1:8.33681

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 6 4/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 = 13.98 V/m; Power Drift = 0.05 dB

Applied MIF = -1.62 dB

RF audio interference level = 22.80 dBV/m

Emission category: M4

MIF scaled E-field

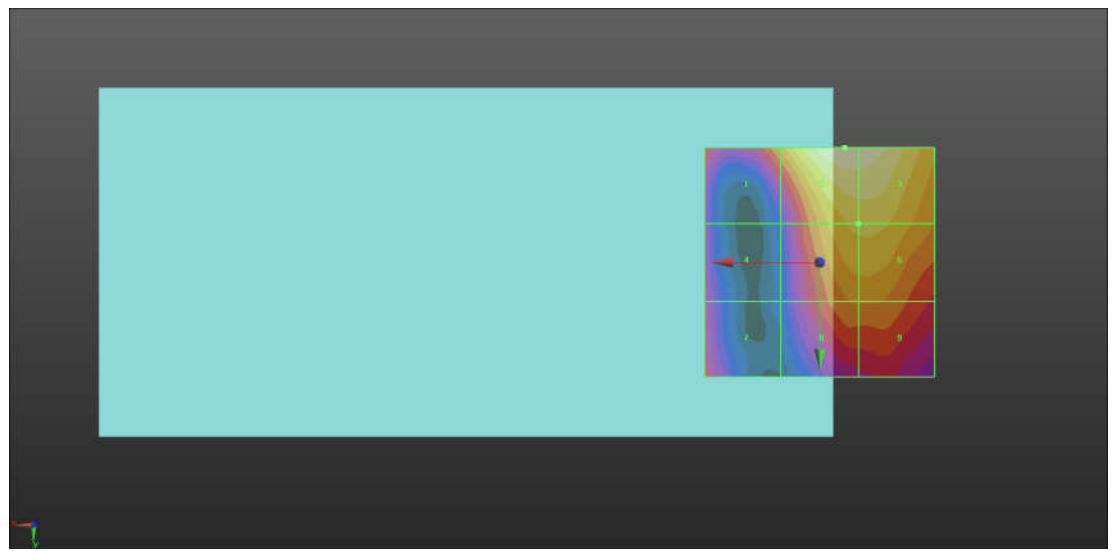
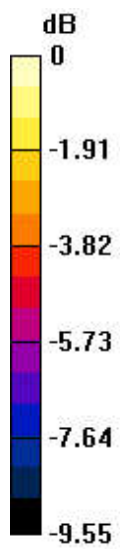
Grid 1 M4 19.9 dBV/m	Grid 2 M4 22.8 dBV/m	Grid 3 M4 22.65 dBV/m
Grid 4 M4 17.42 dBV/m	Grid 5 M4 21.05 dBV/m	Grid 6 M4 21.08 dBV/m
Grid 7 M4 18.2 dBV/m	Grid 8 M4 19.68 dBV/m	Grid 9 M4 19.69 dBV/m

Cursor:

Total = 22.80 dBV/m

E Category: M4

Location: -5.5, -25, 7.7 mm



0 dB = 13.81 V/m = 22.80 dBV/m

Test Laboratory: SGS-SAR Lab

B63 HAC-RF-LTE Band 41 PC3 20M QPSK 1RB0 41140CH

DUT: B63; Type: Smart Phone; Serial: 358098280197874

Communication System: UID 10172 - CAB, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 2645 MHz; Duty Cycle: 1:8.33681

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

Phantom section: RF Section

DASY 5 Configuration:

- Probe: EF3DV3 - SN4051; ConvF(1, 1, 1); Calibrated: 2022-06-10
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn1740; Calibrated: 2022-08-03
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA; Serial:
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Device E-Field measurement/E Scan - ER3D: 15 mm from Probe Center to the Device 6 4 2/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 = 12.30 V/m; Power Drift = 0.19 dB

Applied MIF = -1.62 dB

RF audio interference level = 21.86 dBV/m

Emission category: M4

MIF scaled E-field

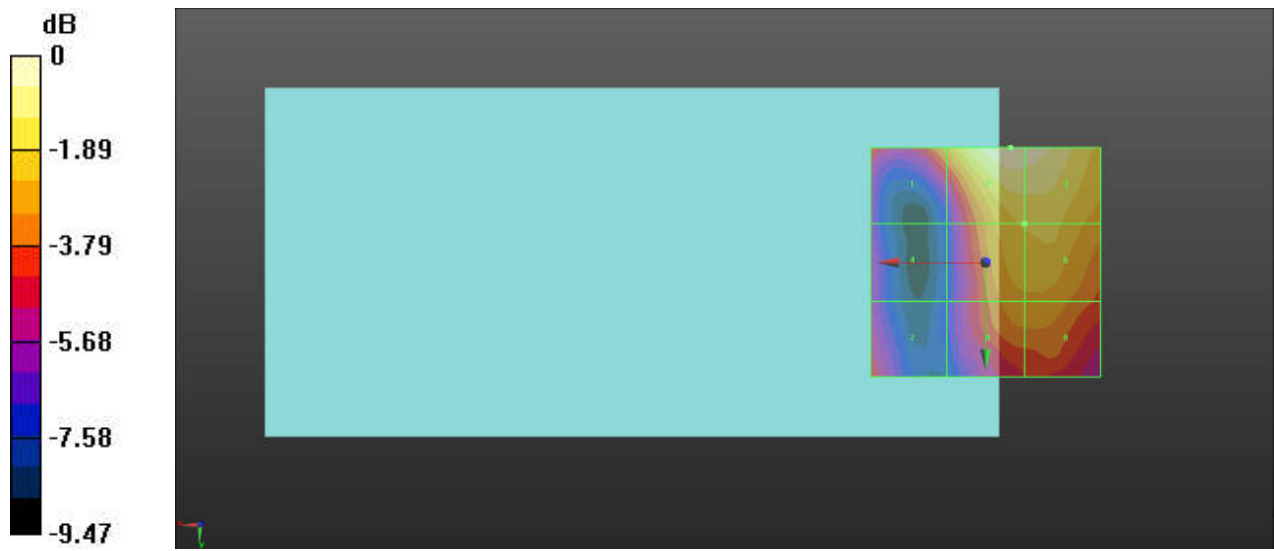
Grid 1 M4 19.29 dBV/m	Grid 2 M4 21.86 dBV/m	Grid 3 M4 21.66 dBV/m
Grid 4 M4 16.39 dBV/m	Grid 5 M4 20.06 dBV/m	Grid 6 M4 20.19 dBV/m
Grid 7 M4 17.65 dBV/m	Grid 8 M4 19.15 dBV/m	Grid 9 M4 19.17 dBV/m

Cursor:

Total = 21.86 dBV/m

E Category: M4

Location: -5.5, -25, 7.7 mm



0 dB = 12.39 V/m = 21.86 dBV/m