



Appendix B

Detailed Test Results

1. GSM
GSM850 for E-Field Emission
GSM1900 for E-Field Emission
2. LTE
LTE Band 38 for E-Field Emission
LTE Band 41 for E-Field Emission

Test Laboratory: SGS-SAR Lab

vivo V2028 HAC-RF-GSM850 GSM Voice 128CH Ant1

DUT: V2028; Type: Mobile phone; Serial: 1918dc2c

Communication System: UID 10021 - DAC, 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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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 = 33.96 V/m; Power Drift = -0.02 dB

Applied MIF = 3.63 dB

RF audio interference level = 31.88 dBV/m

Emission category: M4

MIF scaled E-field

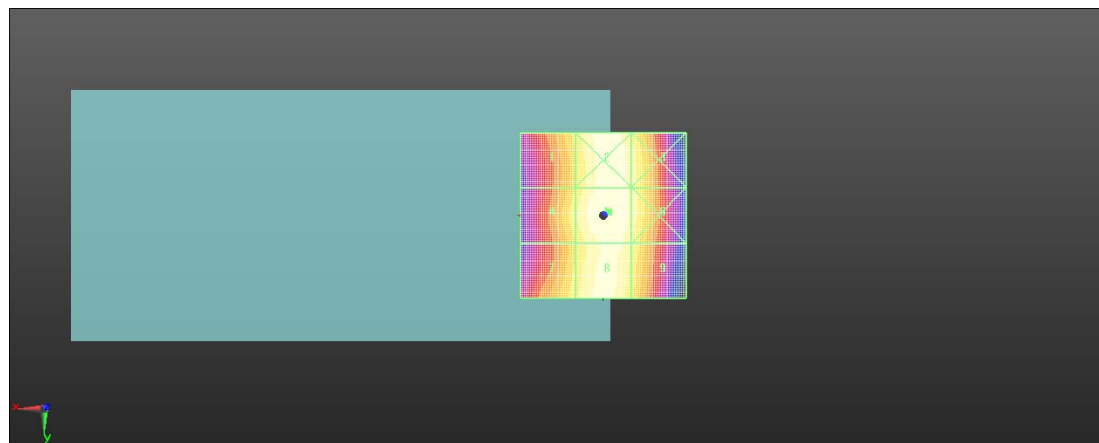
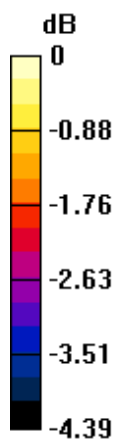
Grid 1 M4 31.11 dBV/m	Grid 2 M4 31.8 dBV/m	Grid 3 M4 31.48 dBV/m
Grid 4 M4 31.26 dBV/m	Grid 5 M4 31.88 dBV/m	Grid 6 M4 31.51 dBV/m
Grid 7 M4 31.22 dBV/m	Grid 8 M4 31.7 dBV/m	Grid 9 M4 31.34 dBV/m

Cursor:

Total = 31.88 dBV/m

E Category: M4

Location: -1.5, -1, 7.7 mm



0 dB = 39.25 V/m = 31.88 dBV/m

Test Laboratory: SGS-SAR Lab

vivo V2028 HAC-RF-GSM850 GSM Voice 251CH Ant2

DUT: V2028; Type: Mobile phone; Serial: 1918dc2c

Communication System: UID 10021 - DAC, GSM-FDD (TDMA, GMSK); Frequency: 848.8 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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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 = 97.56 V/m; Power Drift = -0.06 dB

Applied MIF = 3.63 dB

RF audio interference level = 40.15 dBV/m

Emission category: M3

MIF scaled E-field

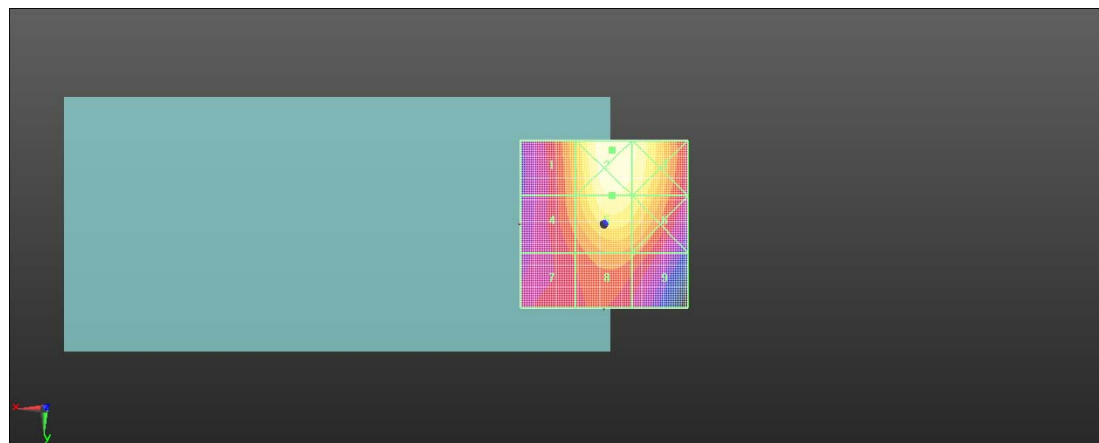
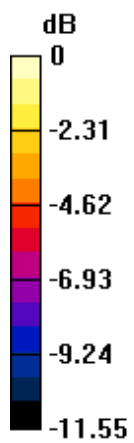
Grid 1 M4 37.94 dBV/m	Grid 2 M3 40.89 dBV/m	Grid 3 M3 40.35 dBV/m
Grid 4 M4 37.32 dBV/m	Grid 5 M3 40.15 dBV/m	Grid 6 M4 39.5 dBV/m
Grid 7 M4 35.78 dBV/m	Grid 8 M4 37.09 dBV/m	Grid 9 M4 36.58 dBV/m

Cursor:

Total = 40.89 dBV/m

E Category: M3

Location: -2.5, -22, 7.7 mm



0 dB = 110.8 V/m = 40.89 dBV/m

Test Laboratory: SGS-SAR Lab

vivo V2028 HAC-RF-GSM1900 GSM Voice 512CH Ant1

DUT: V2028; Type: Mobile phone; Serial: 1918dc2c

Communication System: UID 10021 - DAC, 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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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 = 9.830 V/m; Power Drift = 0.10 dB

Applied MIF = 3.63 dB

RF audio interference level = 26.35 dBV/m

Emission category: M4

MIF scaled E-field

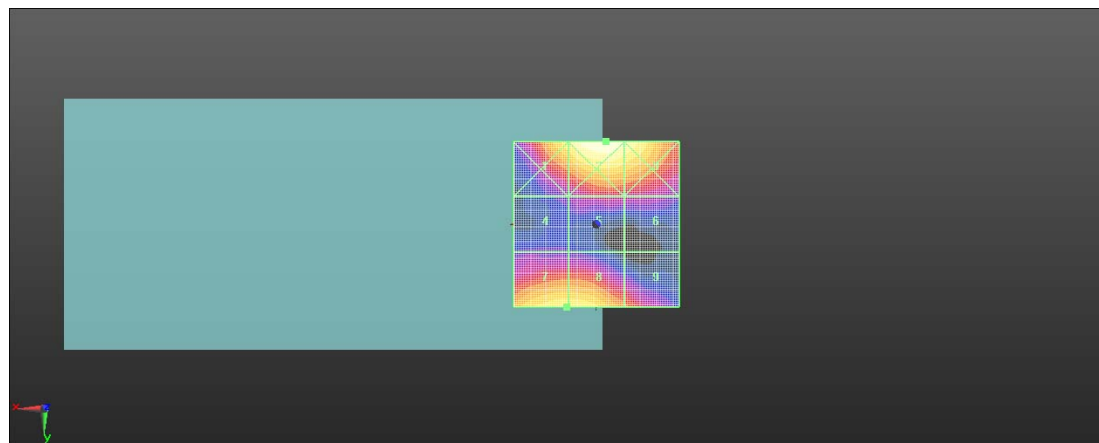
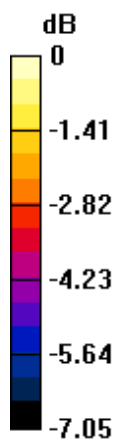
Grid 1 M4 26.22 dBV/m	Grid 2 M4 27.2 dBV/m	Grid 3 M4 26.81 dBV/m
Grid 4 M4 22.61 dBV/m	Grid 5 M4 23.54 dBV/m	Grid 6 M4 23.31 dBV/m
Grid 7 M4 26.35 dBV/m	Grid 8 M4 26.35 dBV/m	Grid 9 M4 24.66 dBV/m

Cursor:

Total = 27.20 dBV/m

E Category: M4

Location: -3, -25, 7.7 mm



0 dB = 22.91 V/m = 27.20 dBV/m

Test Laboratory: SGS-SAR Lab

vivo V2028 HAC-RF-GSM1900 GSM Voice 661CH Ant2

DUT: V2028; Type: Mobile phone; Serial: 1918dc2c

Communication System: UID 10021 - DAC, 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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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 = 39.96 V/m; Power Drift = 0.00 dB

Applied MIF = 3.63 dB

RF audio interference level = 32.28 dBV/m

Emission category: M3

MIF scaled E-field

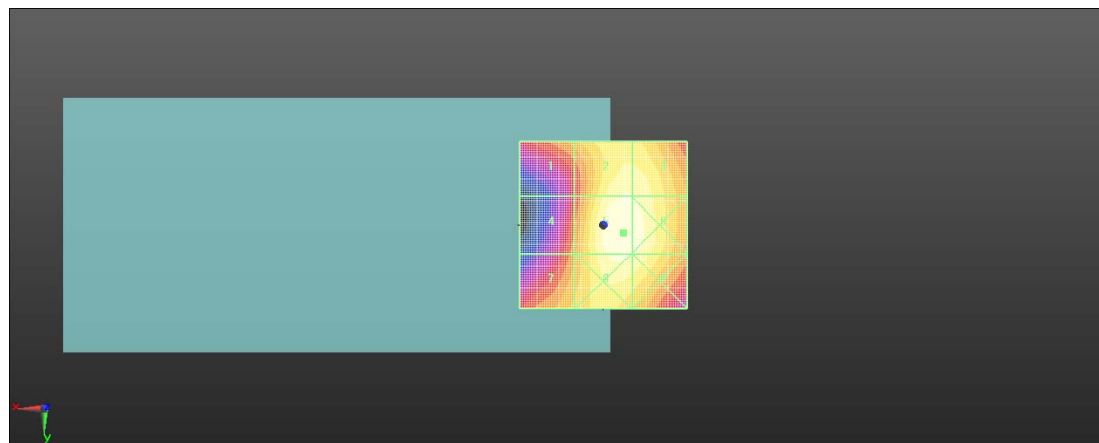
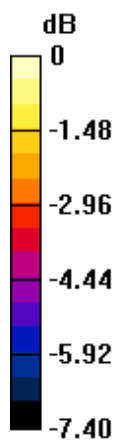
Grid 1 M3 30.13 dBV/m	Grid 2 M3 31.86 dBV/m	Grid 3 M3 31.82 dBV/m
Grid 4 M4 29.73 dBV/m	Grid 5 M3 32.28 dBV/m	Grid 6 M3 32.18 dBV/m
Grid 7 M3 30.44 dBV/m	Grid 8 M3 31.99 dBV/m	Grid 9 M3 31.88 dBV/m

Cursor:

Total = 32.28 dBV/m

E Category: M3

Location: -6, 2.5, 7.7 mm



0 dB = 41.12 V/m = 32.28 dBV/m

Test Laboratory: SGS-SAR Lab

vivo V2028 HAC-RF-LTE Band 38 20M QPSK 1RB99 38150CH Ant1

DUT: V2028; Type: Mobile phone; Serial: 1918dc2c

Communication System: UID 10172 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK);
Frequency: 2610 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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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 = 20.33 V/m; Power Drift = 0.13 dB

Applied MIF = -1.62 dB

RF audio interference level = 23.76 dBV/m

Emission category: M4

MIF scaled E-field

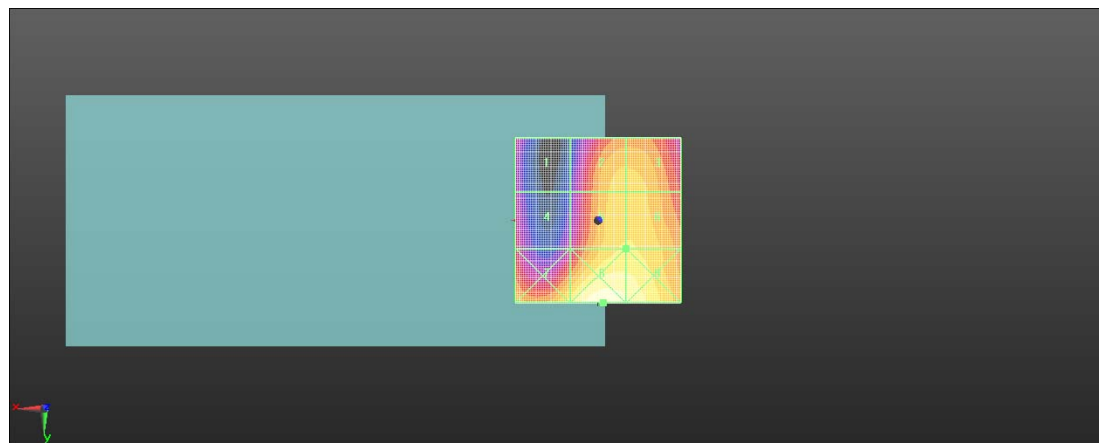
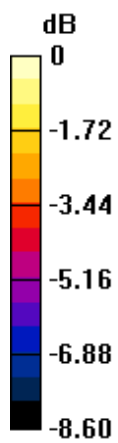
Grid 1 M4 20.94 dBV/m	Grid 2 M4 23.49 dBV/m	Grid 3 M4 23.48 dBV/m
Grid 4 M4 21.24 dBV/m	Grid 5 M4 23.76 dBV/m	Grid 6 M4 23.76 dBV/m
Grid 7 M4 24.1 dBV/m	Grid 8 M4 25.41 dBV/m	Grid 9 M4 25 dBV/m

Cursor:

Total = 25.41 dBV/m

E Category: M4

Location: -1.5, 25, 7.7 mm



0 dB = 18.65 V/m = 25.41 dBV/m

Test Laboratory: SGS-SAR Lab

vivo V2028 HAC-RF-LTE Band 38 20M 16QAM 1RB99 38150CH Ant2

DUT: V2028; Type: Mobile phone; Serial: 1918dc2c

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);
Frequency: 2610 MHz; Duty Cycle: 1:8.87156

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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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 = 25.02 V/m; Power Drift = -0.05 dB

Applied MIF = -1.44 dB

RF audio interference level = 25.52 dBV/m

Emission category: M4

MIF scaled E-field

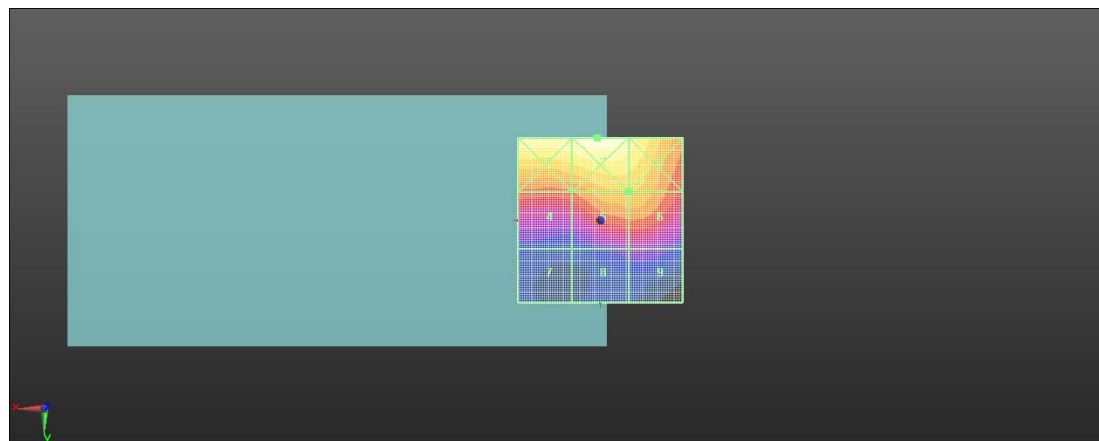
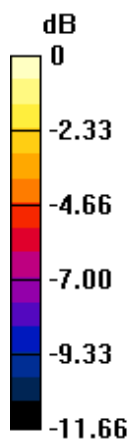
Grid 1 M4 28.04 dBV/m	Grid 2 M4 28.59 dBV/m	Grid 3 M4 27.64 dBV/m
Grid 4 M4 23.91 dBV/m	Grid 5 M4 25.52 dBV/m	Grid 6 M4 25.52 dBV/m
Grid 7 M4 19.66 dBV/m	Grid 8 M4 21.06 dBV/m	Grid 9 M4 21.22 dBV/m

Cursor:

Total = 28.59 dBV/m

E Category: M4

Location: 1, -25, 7.7 mm



0 dB = 26.87 V/m = 28.59 dBV/m

Test Laboratory: SGS-SAR Lab

vivo V2028 HAC-RF-LTE Band 41 20M QPSK 1RB99 41140CH Ant1

DUT: V2028; Type: Mobile phone; Serial: 1918dc2c

Communication System: UID 10172 - CAG, 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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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 = 20.44 V/m; Power Drift = -0.03 dB

Applied MIF = -1.62 dB

RF audio interference level = 23.89 dBV/m

Emission category: M4

MIF scaled E-field

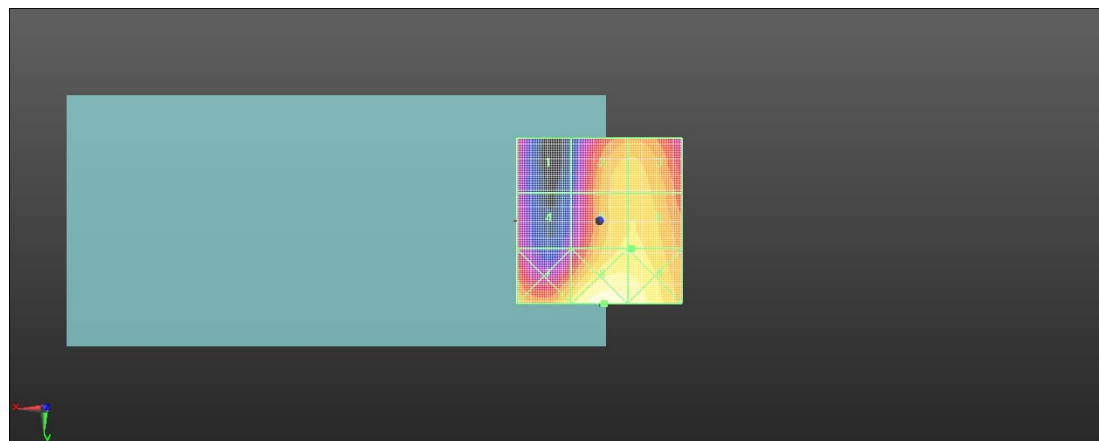
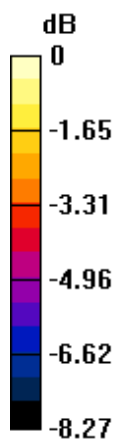
Grid 1 M4 21.52 dBV/m	Grid 2 M4 23.65 dBV/m	Grid 3 M4 23.66 dBV/m
Grid 4 M4 21.33 dBV/m	Grid 5 M4 23.88 dBV/m	Grid 6 M4 23.89 dBV/m
Grid 7 M4 24.07 dBV/m	Grid 8 M4 25.37 dBV/m	Grid 9 M4 25.01 dBV/m

Cursor:

Total = 25.37 dBV/m

E Category: M4

Location: -1.5, 25, 7.7 mm



0 dB = 18.56 V/m = 25.37 dBV/m

Test Laboratory: SGS-SAR Lab

vivo V2028 HAC-RF-LTE Band 41 20M 16QAM 1RB0 41140CH Ant2

DUT: V2028; Type: Mobile phone; Serial: 1918dc2c

Communication System: UID 10173 - CAG, LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM);
Frequency: 2645 MHz; Duty Cycle: 1:8.87156

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: 2020-05-29;
- Sensor-Surface: (Fix Surface)
- Electronics: DAE4 Sn896; Calibrated: 2020-06-11
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

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 = 23.23 V/m; Power Drift = -0.11 dB

Applied MIF = -1.44 dB

RF audio interference level = 25.07 dBV/m

Emission category: M4

MIF scaled E-field

Grid 1 M4 27.74 dBV/m	Grid 2 M4 28.19 dBV/m	Grid 3 M4 27.19 dBV/m
Grid 4 M4 23.58 dBV/m	Grid 5 M4 25.07 dBV/m	Grid 6 M4 25.02 dBV/m
Grid 7 M4 19.81 dBV/m	Grid 8 M4 20.88 dBV/m	Grid 9 M4 20.88 dBV/m

Cursor:

Total = 28.19 dBV/m

E Category: M4

Location: 1, -25, 7.7 mm

