



REPORT No.: SZ21110322S01

## Annex D Plots of Maximum RF Test Results



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**HAC RF Emission\_VoWiFi 2.4GHz 802.11b\_1Mbps\_AMR 12.2Kbps\_Ch1\_E**

Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2412 MHz; Duty Cycle: 1:1.42561

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: ER3DV6 - SN2434; ConvF(1, 1, 1); Calibrated: 2019.12.10;
- Sensor-Surface: (Fix Surface), Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**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 = 12.40 V/m; Power Drift = 0.08 dB

Applied MIF = -17.55 dB

RF audio interference level = 6.20 dBV/m

**Emission category: M4**

MIF scaled E-field

|                                       |                                       |                                        |
|---------------------------------------|---------------------------------------|----------------------------------------|
| <b>Grid 1 M4</b><br><b>8.32 dBV/m</b> | <b>Grid 2 M4</b><br><b>5.58 dBV/m</b> | <b>Grid 3 M4</b><br><b>-0.94 dBV/m</b> |
| <b>Grid 4 M4</b><br><b>8.6 dBV/m</b>  | <b>Grid 5 M4</b><br><b>6.2 dBV/m</b>  | <b>Grid 6 M4</b><br><b>-0.53 dBV/m</b> |
| <b>Grid 7 M4</b><br><b>8.59 dBV/m</b> | <b>Grid 8 M4</b><br><b>6.09 dBV/m</b> | <b>Grid 9 M4</b><br><b>-0.59 dBV/m</b> |

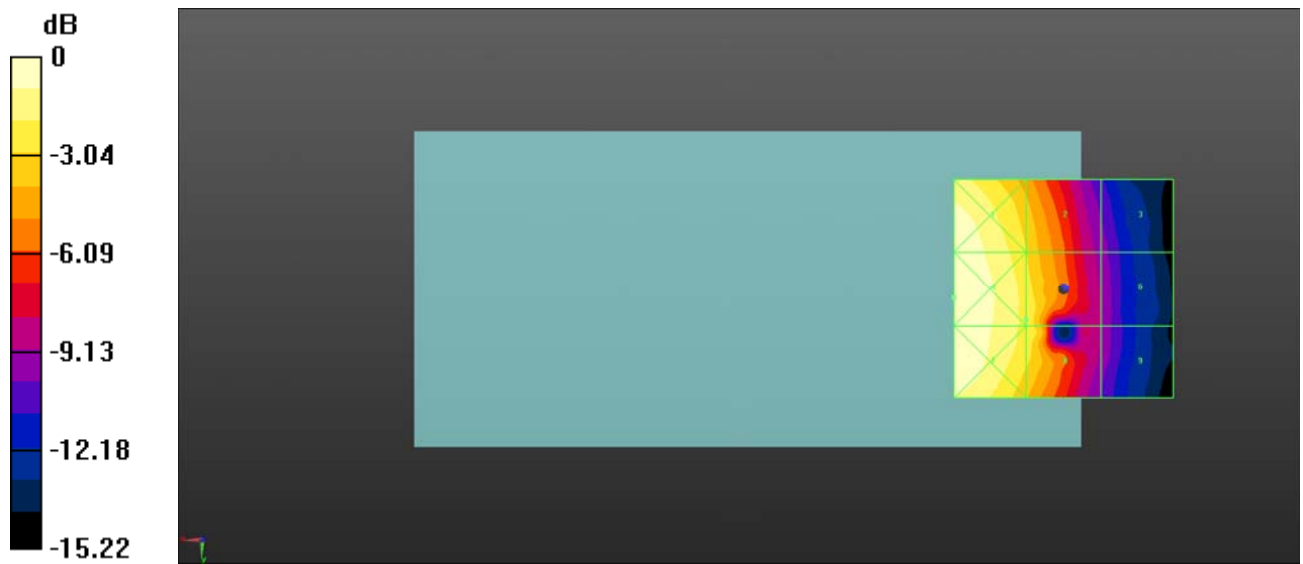
**Cursor:**

Total = 8.60 dBV/m

E Category: M4

Location: 25, 2, 8.7 mm

Maximum value of Total (interpolated) = 2.692 V/m



0 dB = 2.692 V/m = 8.60 dBV/m

**HAC RF Emission\_VoWiFi 2.4GHz 802.11b\_1Mbps\_AMR 12.2Kbps\_Ch6\_E**

Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2437 MHz; Duty Cycle: 1:1.42561

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: ER3DV6 - SN2434; ConvF(1, 1, 1); Calibrated: 2019.12.10;
- Sensor-Surface: (Fix Surface), Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**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 = 12.39 V/m; Power Drift = 0.12 dB

Applied MIF = -17.55 dB

RF audio interference level = 6.28 dBV/m

**Emission category: M4**

MIF scaled E-field

|                                       |                                       |                                        |
|---------------------------------------|---------------------------------------|----------------------------------------|
| <b>Grid 1 M4</b><br><b>8.38 dBV/m</b> | <b>Grid 2 M4</b><br><b>5.64 dBV/m</b> | <b>Grid 3 M4</b><br><b>-0.97 dBV/m</b> |
| <b>Grid 4 M4</b><br><b>8.66 dBV/m</b> | <b>Grid 5 M4</b><br><b>6.28 dBV/m</b> | <b>Grid 6 M4</b><br><b>-0.51 dBV/m</b> |
| <b>Grid 7 M4</b><br><b>8.64 dBV/m</b> | <b>Grid 8 M4</b><br><b>6.16 dBV/m</b> | <b>Grid 9 M4</b><br><b>-0.57 dBV/m</b> |

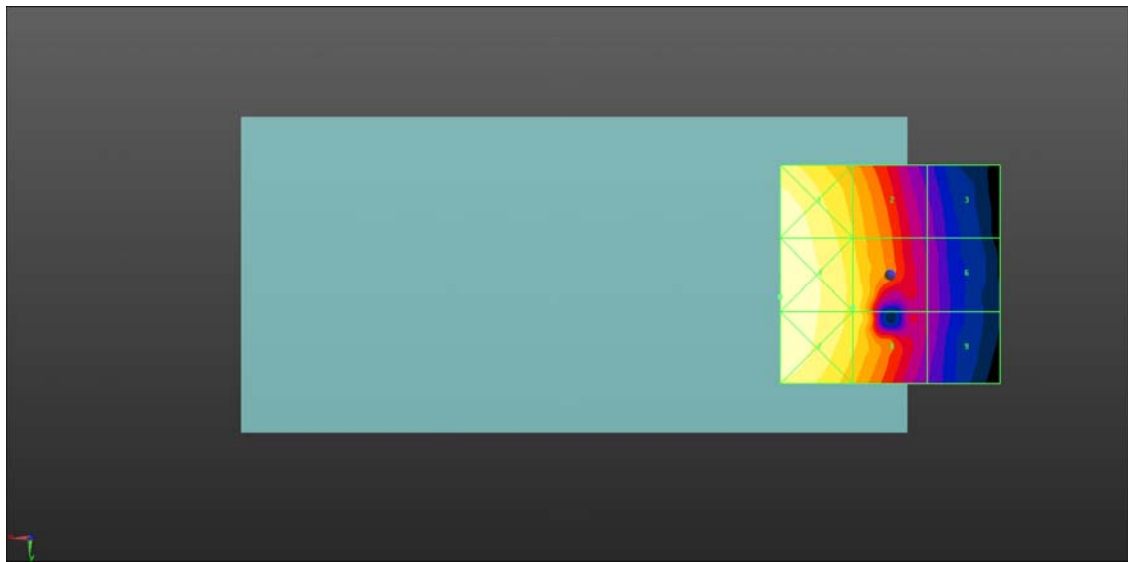
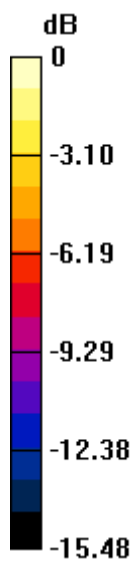
**Cursor:**

Total = 8.66 dBV/m

E Category: M4

Location: 25, 5, 8.7 mm

Maximum value of Total (interpolated) = 2.711 V/m



0 dB = 2.711 V/m = 8.66 dBV/m

**HAC RF Emission\_VoWiFi 2.4GHz 802.11b\_1Mbps\_AMR 12.2Kbps\_Ch11\_E**

Communication System: UID 10415 - AAA, IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle); Frequency: 2462 MHz; Duty Cycle: 1:1.42561

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: ER3DV6 - SN2434; ConvF(1, 1, 1); Calibrated: 2019.12.10;
- Sensor-Surface: (Fix Surface), Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**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 = 12.37 V/m; Power Drift = 0.11 dB

Applied MIF = -17.32 dB

RF audio interference level = 6.26 dBV/m

**Emission category: M4**

MIF scaled E-field

|                                       |                                       |                                        |
|---------------------------------------|---------------------------------------|----------------------------------------|
| <b>Grid 1 M4</b><br><b>8.37 dBV/m</b> | <b>Grid 2 M4</b><br><b>5.62 dBV/m</b> | <b>Grid 3 M4</b><br><b>-0.82 dBV/m</b> |
| <b>Grid 4 M4</b><br><b>8.66 dBV/m</b> | <b>Grid 5 M4</b><br><b>6.26 dBV/m</b> | <b>Grid 6 M4</b><br><b>-0.44 dBV/m</b> |
| <b>Grid 7 M4</b><br><b>8.66 dBV/m</b> | <b>Grid 8 M4</b><br><b>6.14 dBV/m</b> | <b>Grid 9 M4</b><br><b>-0.48 dBV/m</b> |

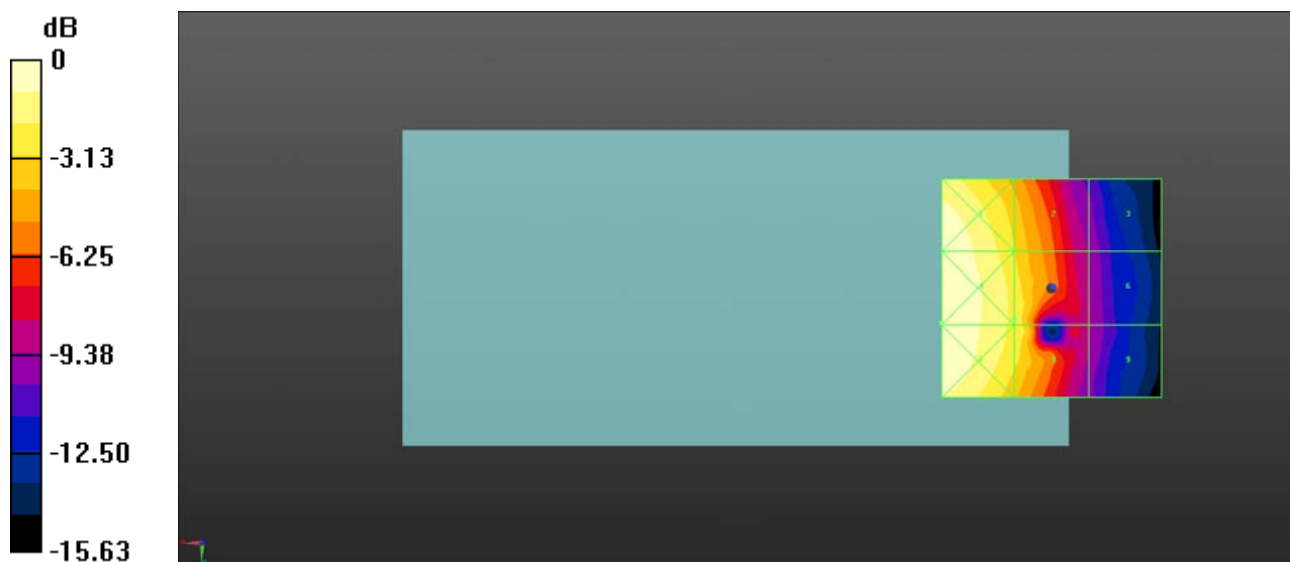
**Cursor:**

Total = 8.26 dBV/m

E Category: M4

Location: 25, 8, 8.7 mm

Maximum value of Total (interpolated) = 2.624 V/m



0 dB = 2.624 V/m = 8.26 dBV/m

**HAC RF Emission\_VoWiFi 2.4GHz 802.11g\_6Mbps\_AMR 12.2Kbps\_Ch1\_E**

Communication System: UID 10419 - AAA, IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble); Frequency: 2412 MHz; Duty Cycle: 1:6.59174

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: ER3DV6 - SN2434; ConvF(1, 1, 1); Calibrated: 2019.12.10;
- Sensor-Surface: (Fix Surface), Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**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 = 12.53 V/m; Power Drift = 0.05 dB

Applied MIF = -18.31 dB

RF audio interference level = 5.46 dBV/m

**Emission category: M4**

MIF scaled E-field

|                                       |                                       |                                        |
|---------------------------------------|---------------------------------------|----------------------------------------|
| Grid 1 <b>M4</b><br><b>7.58 dBV/m</b> | Grid 2 <b>M4</b><br><b>4.82 dBV/m</b> | Grid 3 <b>M4</b><br><b>-1.62 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>7.89 dBV/m</b> | Grid 5 <b>M4</b><br><b>5.46 dBV/m</b> | Grid 6 <b>M4</b><br><b>-1.14 dBV/m</b> |
| Grid 7 <b>M4</b><br><b>7.84 dBV/m</b> | Grid 8 <b>M4</b><br><b>5.35 dBV/m</b> | Grid 9 <b>M4</b><br><b>-1.18 dBV/m</b> |

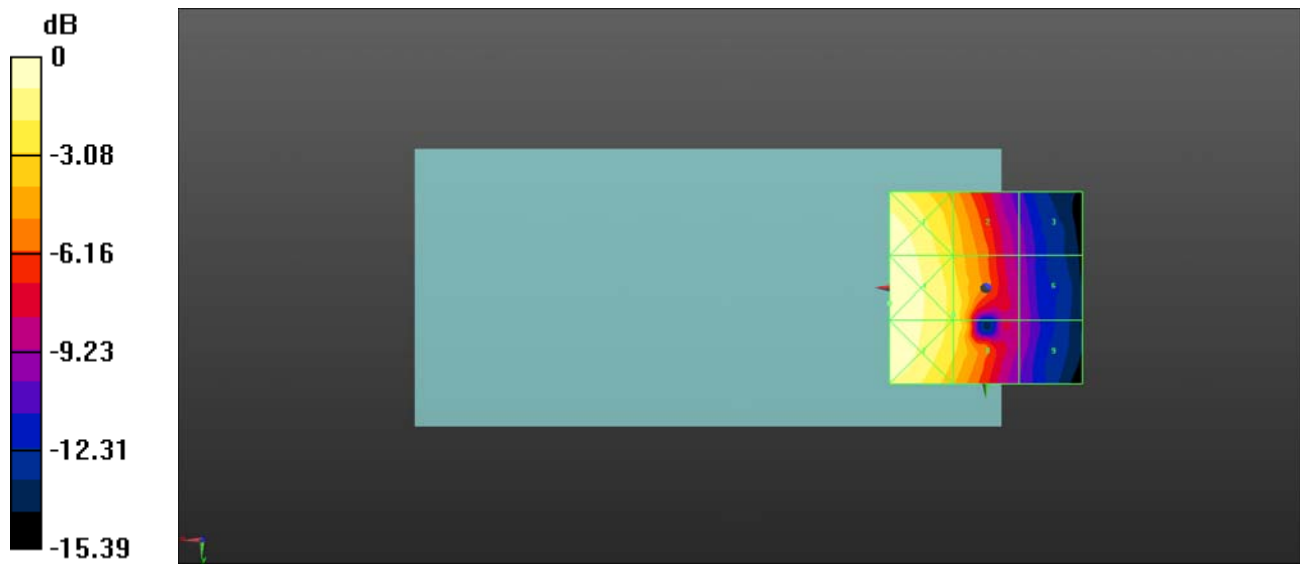
**Cursor:**

Total = 7.89 dBV/m

E Category: M4

Location: 25, 4, 8.7 mm

Maximum value of Total (interpolated) = 2.479 V/m



0 dB = 2.479 V/m = 7.89 dBV/m

**HAC RF Emission\_VoWiFi 2.4GHz 802.11g\_6Mbps\_AMR 12.2Kbps\_Ch6\_E**

Communication System: UID 10419 - AAA, IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble); Frequency: 2437 MHz; Duty Cycle: 1:6.59174

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: ER3DV6 - SN2434; ConvF(1, 1, 1); Calibrated: 2019.12.10;
- Sensor-Surface: (Fix Surface), Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**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 = 12.54 V/m; Power Drift = 0.04 dB

Applied MIF = -18.31 dB

RF audio interference level = 5.43 dBV/m

**Emission category: M4**

MIF scaled E-field

|                                       |                                       |                                        |
|---------------------------------------|---------------------------------------|----------------------------------------|
| <b>Grid 1 M4</b><br><b>7.56 dBV/m</b> | <b>Grid 2 M4</b><br><b>4.82 dBV/m</b> | <b>Grid 3 M4</b><br><b>-1.6 dBV/m</b>  |
| <b>Grid 4 M4</b><br><b>7.85 dBV/m</b> | <b>Grid 5 M4</b><br><b>5.43 dBV/m</b> | <b>Grid 6 M4</b><br><b>-1.27 dBV/m</b> |
| <b>Grid 7 M4</b><br><b>7.84 dBV/m</b> | <b>Grid 8 M4</b><br><b>5.32 dBV/m</b> | <b>Grid 9 M4</b><br><b>-1.33 dBV/m</b> |

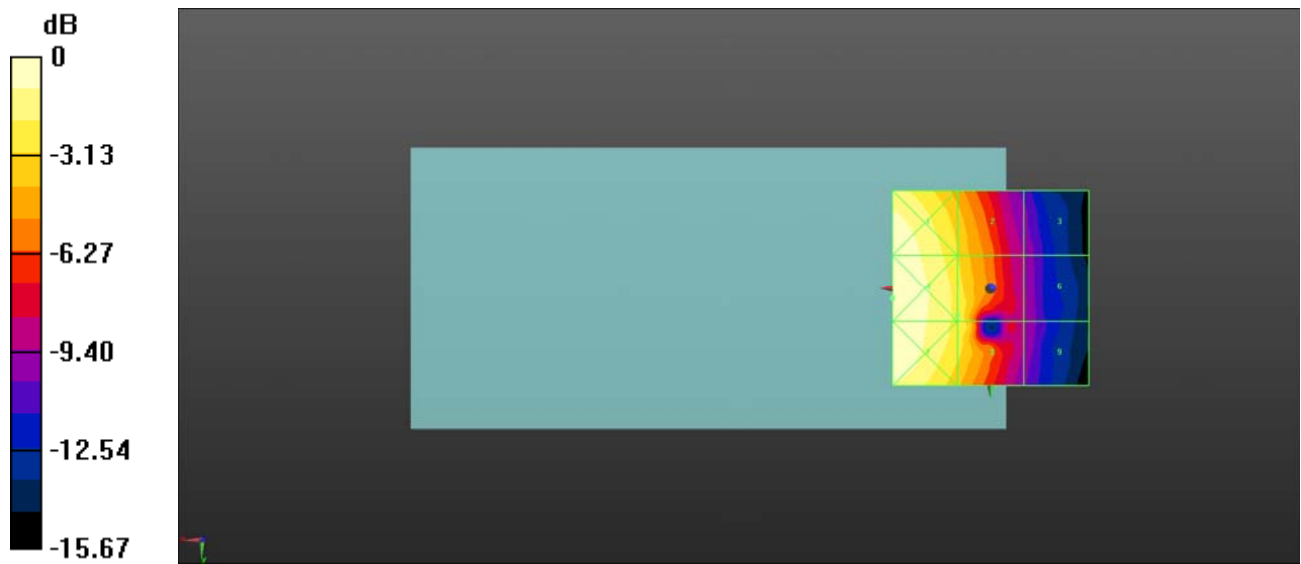
**Cursor:**

Total = 7.85 dBV/m

E Category: M4

Location: 25, 2.5, 8.7 mm

Maximum value of Total (interpolated) = 2.469 V/m



**HAC RF Emission\_VoWiFi 2.4GHz 802.11g\_6Mbps\_AMR 12.2Kbps\_Ch11\_E**

Communication System: UID 10419 - AAA, IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble); Frequency: 2462 MHz; Duty Cycle: 1:6.59174

Medium: Air Medium parameters used:  $\sigma = 0$  S/m,  $\epsilon_r = 1$ ;  $\rho = 0$  kg/m<sup>3</sup>

Ambient Temperature : 23.2 °C

**DASY5 Configuration:**

- Probe: ER3DV6 - SN2434; ConvF(1, 1, 1); Calibrated: 2019.12.10;
- Sensor-Surface: (Fix Surface), Sensor-Surface: 0mm (Fix Surface)
- Electronics: DAE4 Sn480; Calibrated: 2021.06.22
- Phantom: HAC Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

**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 = 12.40 V/m; Power Drift = 0.11 dB

Applied MIF = -18.31 dB

RF audio interference level = 5.44 dBV/m

**Emission category: M4**

MIF scaled E-field

|                                       |                                       |                                        |
|---------------------------------------|---------------------------------------|----------------------------------------|
| Grid 1 <b>M4</b><br><b>7.6 dBV/m</b>  | Grid 2 <b>M4</b><br><b>4.83 dBV/m</b> | Grid 3 <b>M4</b><br><b>-1.55 dBV/m</b> |
| Grid 4 <b>M4</b><br><b>7.92 dBV/m</b> | Grid 5 <b>M4</b><br><b>5.44 dBV/m</b> | Grid 6 <b>M4</b><br><b>-1.1 dBV/m</b>  |
| Grid 7 <b>M4</b><br><b>7.85 dBV/m</b> | Grid 8 <b>M4</b><br><b>5.33 dBV/m</b> | Grid 9 <b>M4</b><br><b>-1.14 dBV/m</b> |

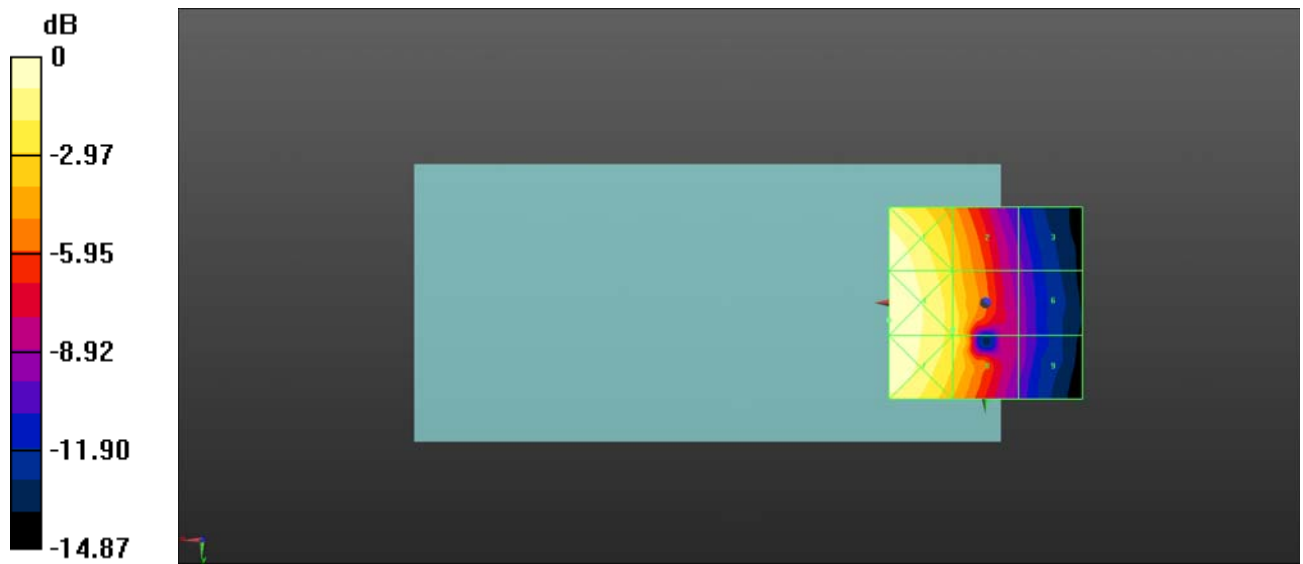
**Cursor:**

Total = 7.92 dBV/m

E Category: M4

Location: 25, 4.5, 8.7 mm

Maximum value of Total (interpolated) = 2.488 V/m



0 dB = 2.488 V/m = 7.92 dBV/m