

APPENDIX A. HAC TEST PLOTS

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /128

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 141.4 V/m

Probe Modulation Factor = 2.68

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 66.6 V/m; Power Drift = -0.049 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

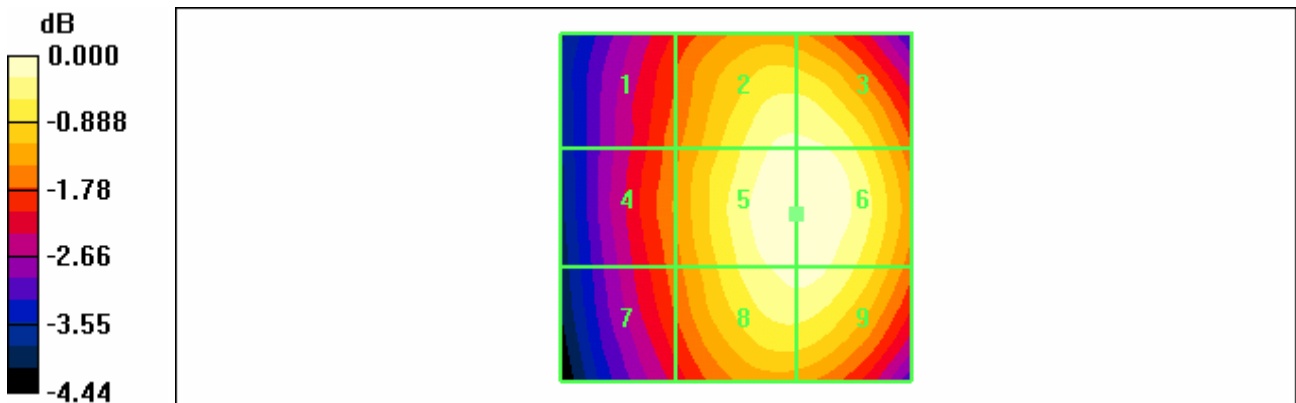
| | | |
|--------------------|--------------------|--------------------|
| Grid 1 118.4 M4 | Grid 2 138.1 M4 | Grid 3 138.1 M4 |
| Grid 4 120.2 M4 | Grid 5 141.4 M4 | Grid 6 141.4 M4 |
| Grid 7 117.9 M4 | Grid 8 138.8 M4 | Grid 9 138.9 M4 |

Cursor:

Total = 141.4 V/m

E Category: M4

Location: -8.5, 1, 369.9 mm



0 dB = 141.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /190

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2009-05-22

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 126.8 V/m

Probe Modulation Factor = 2.68

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 58.8 V/m; Power Drift = 0.015 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

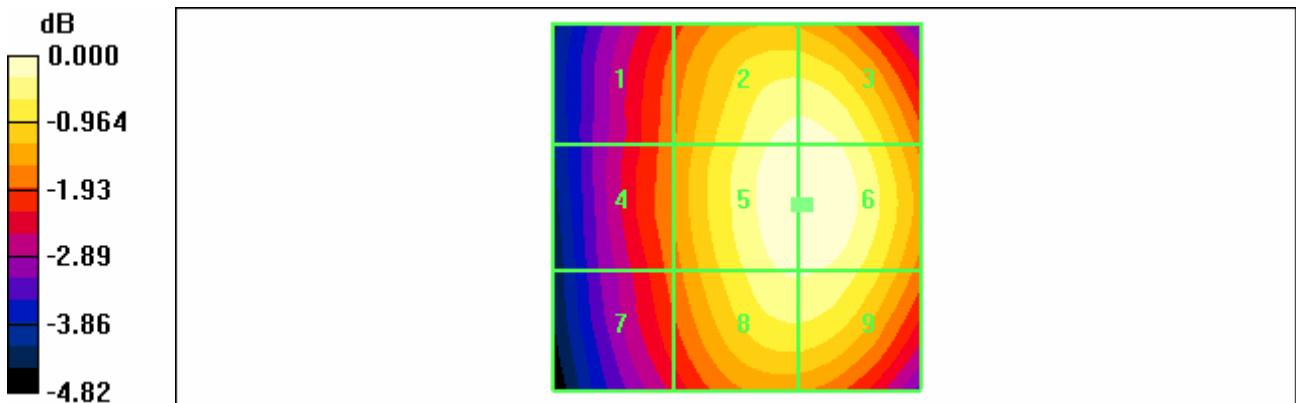
| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 105.0 M4 | 124.4 M4 | 124.4 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 106.0 M4 | 126.6 M4 | 126.8 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 103.6 M4 | 122.9 M4 | 122.9 M4 |

Cursor:

Total = 126.8 V/m

E Category: M4

Location: -9.5, -0.5, 369.9 mm



0 dB = 126.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /251

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 98.3 V/m

Probe Modulation Factor = 2.68

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 45.4 V/m; Power Drift = 0.045 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak E-field in V/m

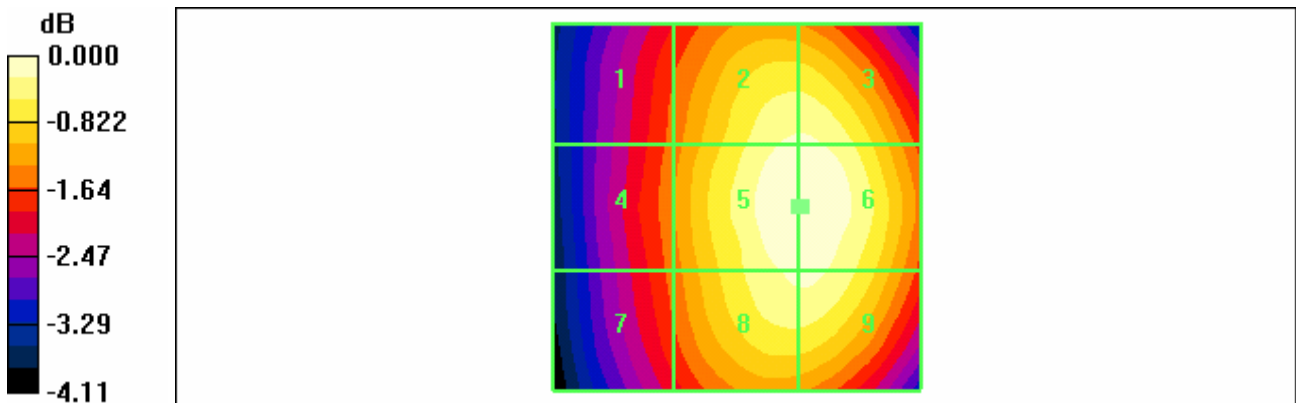
| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 82.7 M4 | 96.0 M4 | 96.0 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 83.7 M4 | 98.3 M4 | 98.3 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 82.7 M4 | 96.2 M4 | 96.3 M4 |

Cursor:

Total = 98.3 V/m

E Category: M4

Location: -9, 0, 369.9 mm



0 dB = 98.3V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /512
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

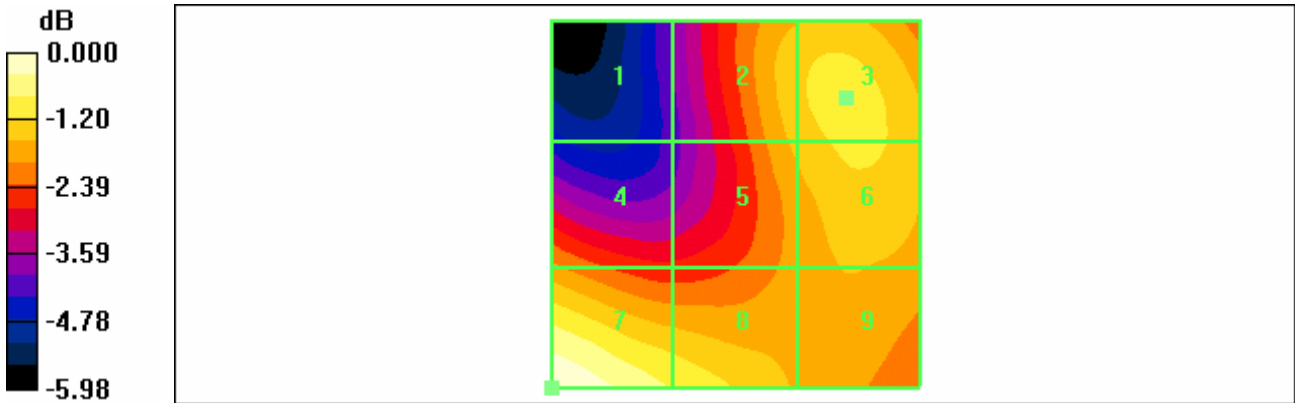
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 75.8 V/m
 Probe Modulation Factor = 2.67
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 21.1 V/m; Power Drift = -0.001 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 48.3 M3 | 65.4 M3 | 67.4 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 61.1 M3 | 64.0 M3 | 66.7 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 75.8 M3 | 69.0 M3 | 63.3 M3 |

Cursor:
 Total = 75.8 V/m
 E Category: M3
 Location: 25, 25, 369.9 mm



0 dB = 75.8V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /661

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 69.7 V/m

Probe Modulation Factor = 2.67

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 21.1 V/m; Power Drift = -0.023 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

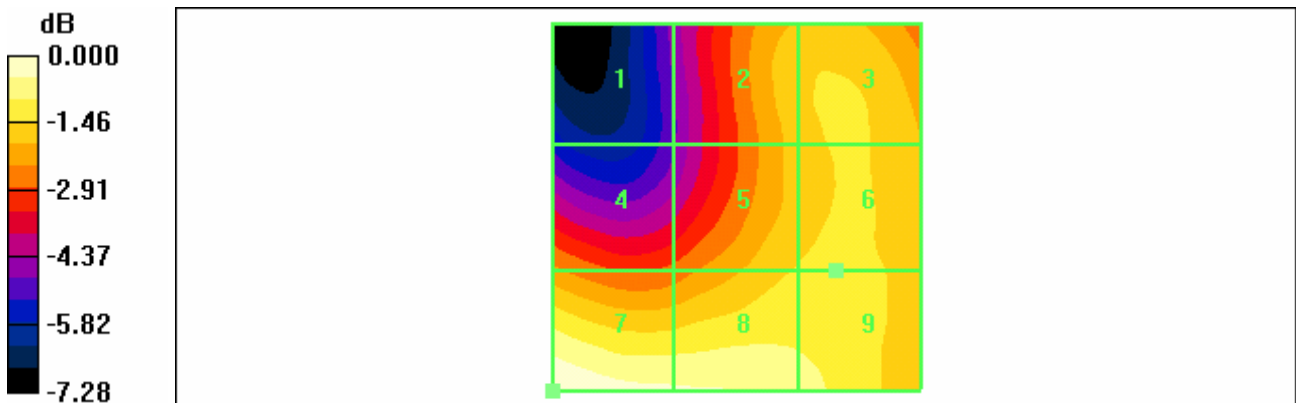
| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 40.8 M4 | 58.1 M3 | 59.6 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 53.6 M3 | 59.3 M3 | 60.0 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 69.7 M3 | 66.6 M3 | 63.7 M3 |

Cursor:

Total = 69.7 V/m

E Category: M3

Location: 25, 25, 369.9 mm



0 dB = 69.7V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /810

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 66.0 V/m

Probe Modulation Factor = 2.67

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 22.9 V/m; Power Drift = 0.068 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak E-field in V/m

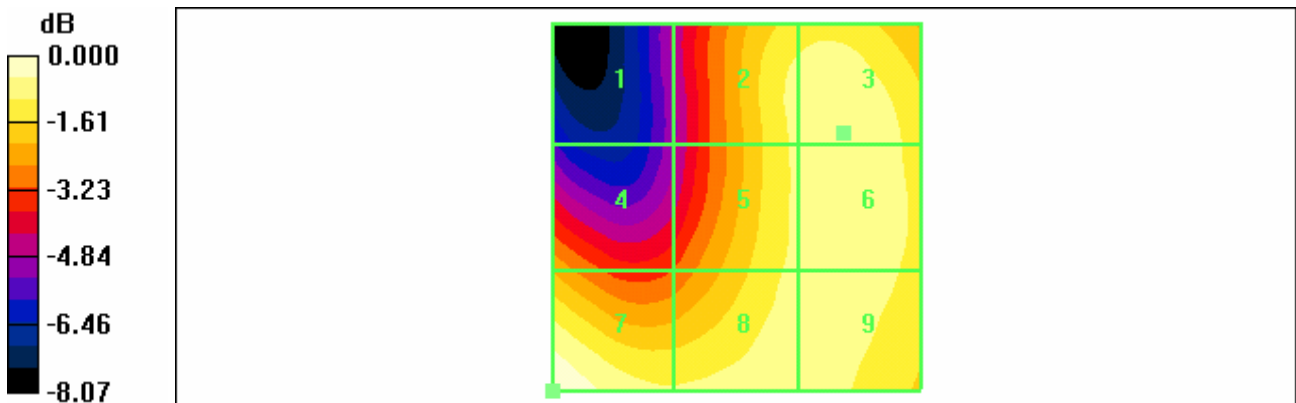
| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 38.5 M4 | 59.5 M3 | 61.2 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 51.3 M3 | 59.4 M3 | 61.1 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 66.0 M3 | 60.1 M3 | 60.6 M3 |

Cursor:

Total = 66.0 V/m

E Category: M3

Location: 25, 25, 369.9 mm



0 dB = 66.0V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /128

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 824.2 MHz;Duty Cycle: 1:8.3

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

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.200 A/m

Probe Modulation Factor = 1.86

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.078 A/m; Power Drift = 0.035 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

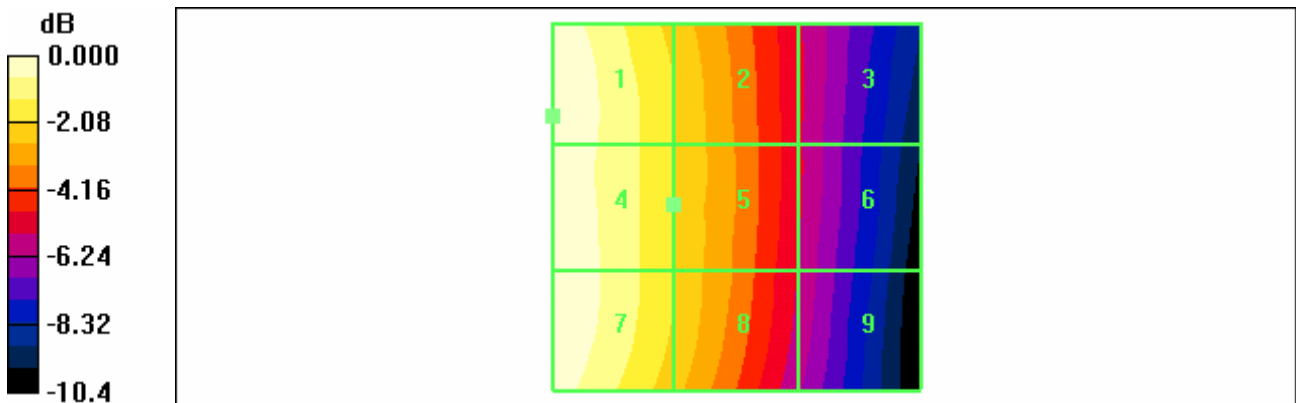
| | | |
|--------------------|--------------------|--------------------|
| Grid 1 0.200 M4 | Grid 2 0.158 M4 | Grid 3 0.108 M4 |
| Grid 4 0.200 M4 | Grid 5 0.159 M4 | Grid 6 0.108 M4 |
| Grid 7 0.200 M4 | Grid 8 0.158 M4 | Grid 9 0.105 M4 |

Cursor:

Total = 0.200 A/m

H Category: M4

Location: 25, -12.5, 369.4 mm



0 dB = 0.200A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /190
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 836.6 MHz;Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

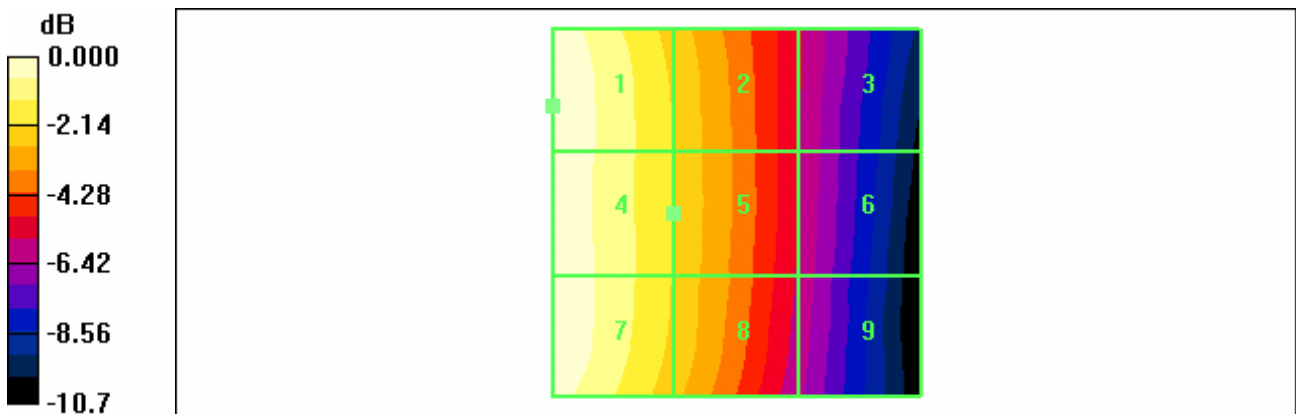
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.184 A/m
 Probe Modulation Factor = 1.86
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.070 A/m; Power Drift = 0.036 dB
Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

| | | |
|--------------------|--------------------|--------------------|
| Grid 1 0.184 M4 | Grid 2 0.143 M4 | Grid 3 0.097 M4 |
| Grid 4 0.183 M4 | Grid 5 0.144 M4 | Grid 6 0.096 M4 |
| Grid 7 0.182 M4 | Grid 8 0.143 M4 | Grid 9 0.094 M4 |

Cursor:
 Total = 0.184 A/m
 H Category: M4
 Location: 25, -14.5, 369.4 mm



0 dB = 0.184A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /251

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 850; Frequency: 848.8 MHz;Duty Cycle: 1:8.3

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

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.146 A/m

Probe Modulation Factor = 1.86

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.055 A/m; Power Drift = 0.014 dB

Hearing Aid Near-Field Category: M4 (AWF -5 dB)

Peak H-field in A/m

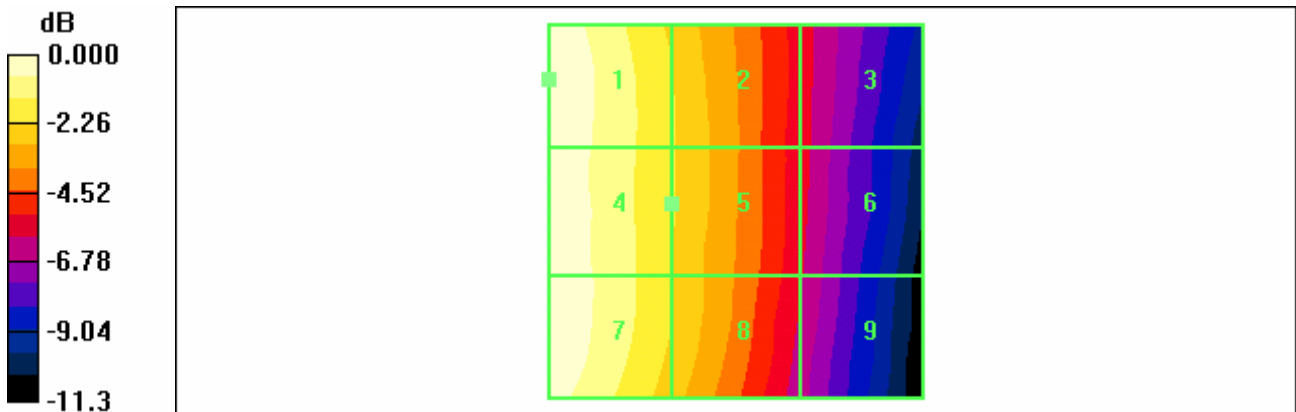
| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.146 M4 | 0.114 M4 | 0.077 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.144 M4 | 0.114 M4 | 0.076 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.144 M4 | 0.113 M4 | 0.074 M4 |

Cursor:

Total = 0.146 A/m

H Category: M4

Location: 25, -17.5, 369.4 mm



0 dB = 0.146A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /512

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1850.2 MHz;Duty Cycle: 1:8.3

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

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ConvF(1, 1, 1); Calibrated: 2009-05-22

- Sensor-Surface: (Fix Surface)

- Electronics: DAE3 Sn446; Calibrated: 2009-05-22

- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.220 A/m

Probe Modulation Factor = 2.22

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.097 A/m; Power Drift = -0.127 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

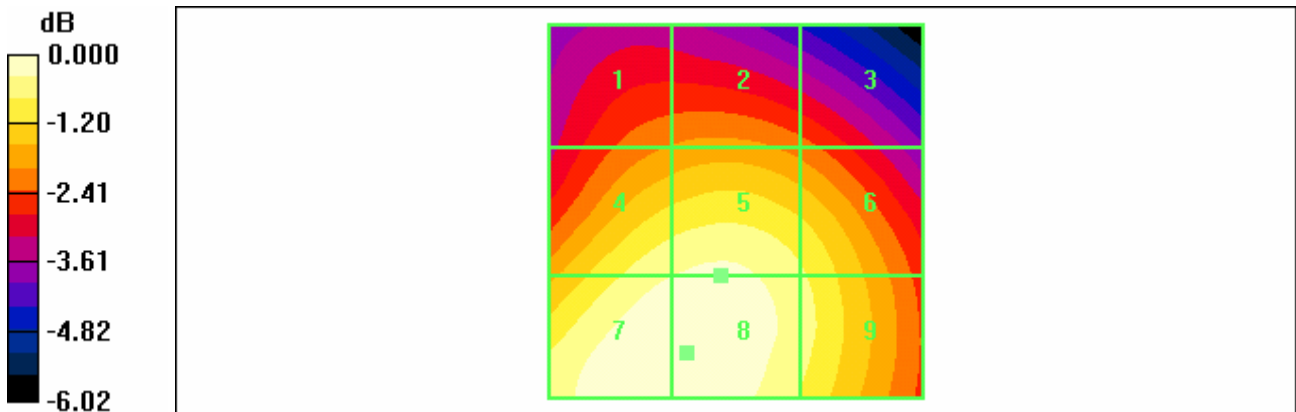
| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.176 M3 | 0.178 M3 | 0.171 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.210 M3 | 0.212 M3 | 0.202 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.220 M3 | 0.220 M3 | 0.205 M3 |

Cursor:

Total = 0.220 A/m

H Category: M3

Location: 6.5, 19, 369.4 mm



0 dB = 0.220A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /661

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1880 MHz;Duty Cycle: 1:8.3

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

Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: H3DV6 - SN6101; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.201 A/m

Probe Modulation Factor = 2.22

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 0.087 A/m; Power Drift = 0.005 dB

Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

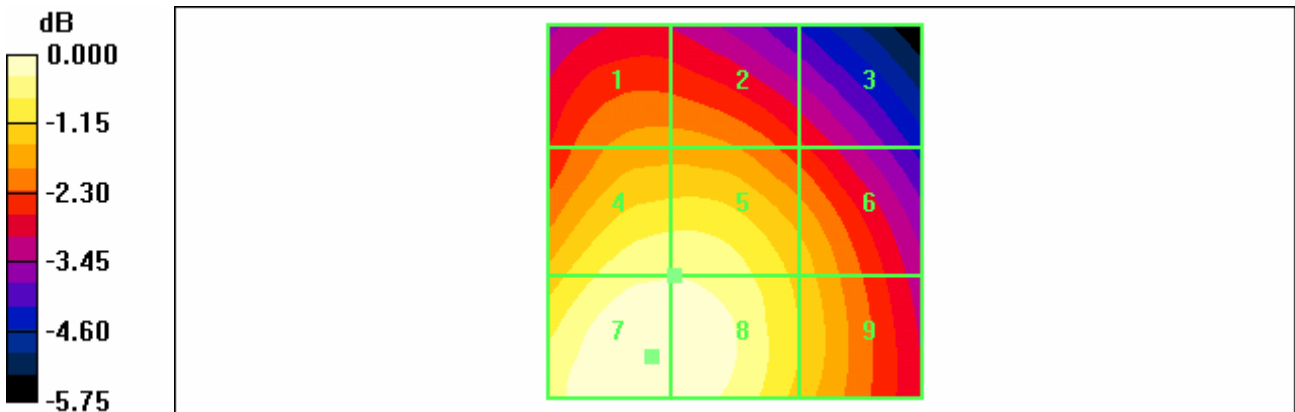
| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.166 M3 | 0.165 M3 | 0.150 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.192 M3 | 0.192 M3 | 0.173 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.201 M3 | 0.201 M3 | 0.176 M3 |

Cursor:

Total = 0.201 A/m

H Category: M3

Location: 11, 19.5, 369.4 mm



0 dB = 0.201A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /810
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: GSM 1900; Frequency: 1909.8 MHz;Duty Cycle: 1:8.3
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

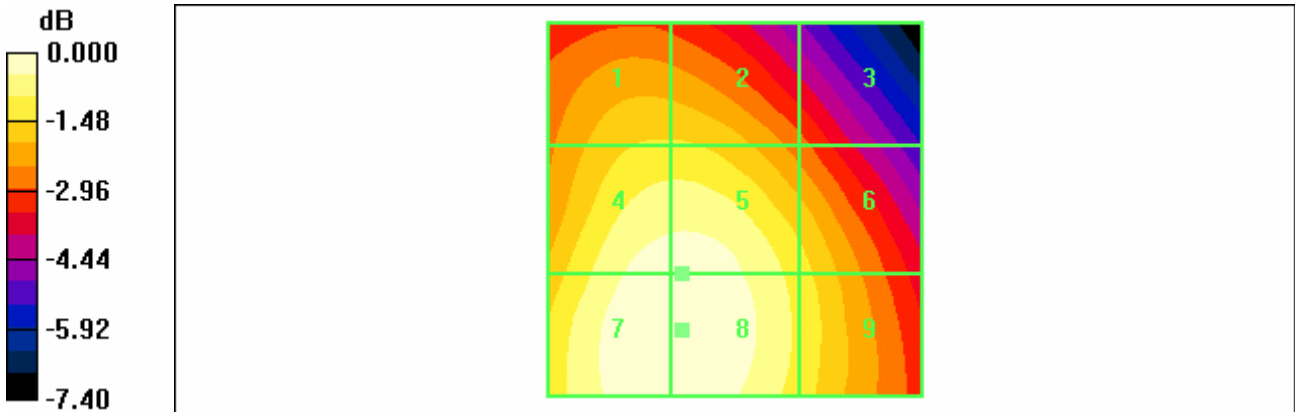
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.205 A/m
 Probe Modulation Factor = 2.22
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.092 A/m; Power Drift = -0.074 dB
Hearing Aid Near-Field Category: M3 (AWF -5 dB)

Peak H-field in A/m

| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.175 M3 | 0.175 M3 | 0.150 M3 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.200 M3 | 0.201 M3 | 0.178 M3 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.205 M3 | 0.205 M3 | 0.181 M3 |

Cursor:
 Total = 0.205 A/m
 H Category: M3
 Location: 7, 16, 369.4 mm



0 dB = 0.205A/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /4132

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 826.4 MHz;Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 47.4 V/m

Probe Modulation Factor = 0.837

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 71.6 V/m; Power Drift = -0.036 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

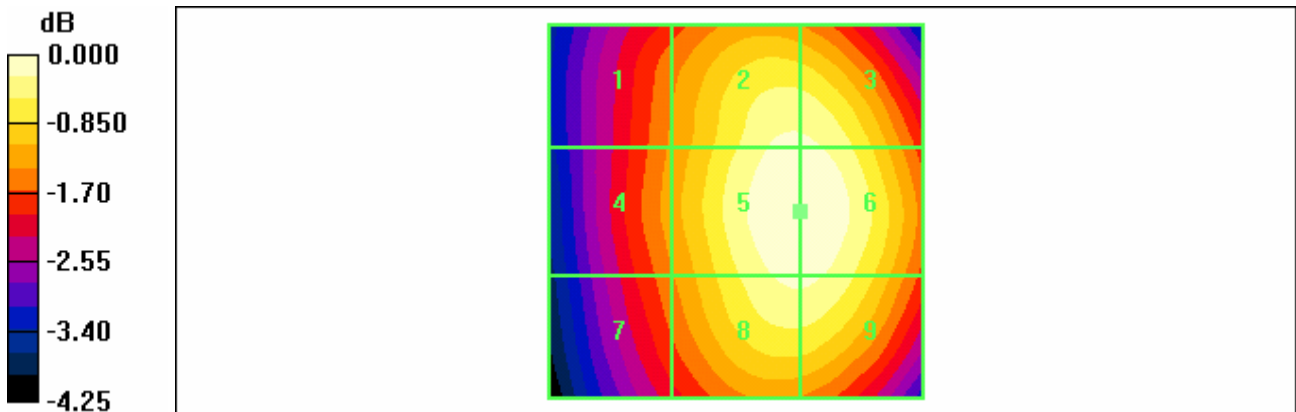
| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 40.6 M4 | 46.3 M4 | 46.3 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 41.1 M4 | 47.4 M4 | 47.4 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 40.2 M4 | 46.3 M4 | 46.3 M4 |

Cursor:

Total = 47.4 V/m

E Category: M4

Location: -8.5, 0, 369.9 mm



0 dB = 47.4V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /4183
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

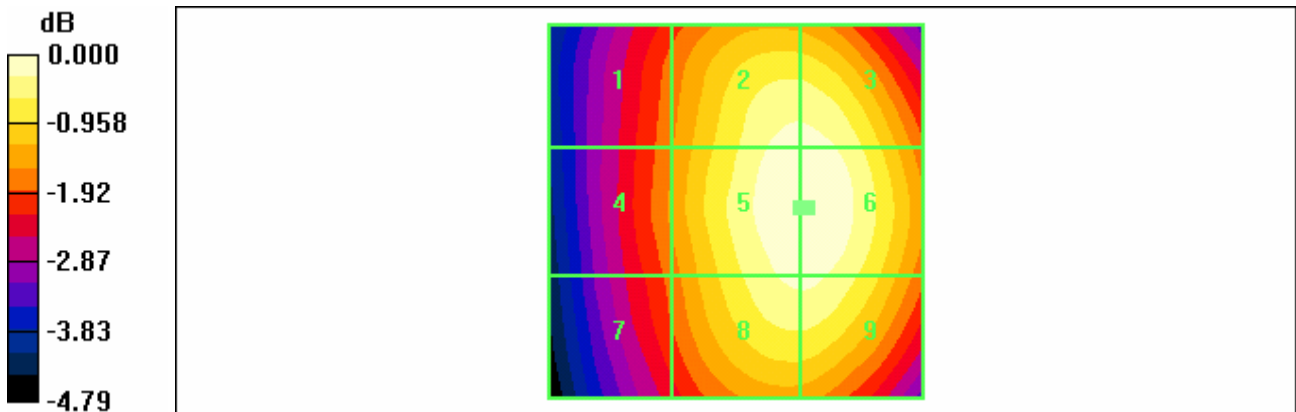
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 37.3 V/m
 Probe Modulation Factor = 0.837
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 55.7 V/m; Power Drift = -0.008 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 31.0 M4 | 36.5 M4 | 36.5 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 31.4 M4 | 37.3 M4 | 37.3 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 30.5 M4 | 36.3 M4 | 36.3 M4 |

Cursor:
 Total = 37.3 V/m
 E Category: M4
 Location: -9.5, -0.5, 369.9 mm



0 dB = 37.3V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /4233

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 846.6 MHz;Duty Cycle: 1:1

Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³

Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 37.2 V/m

Probe Modulation Factor = 0.837

Device Reference Point: 0.000, 0.000, 353.7 mm

Reference Value = 54.9 V/m; Power Drift = 0.010 dB

Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

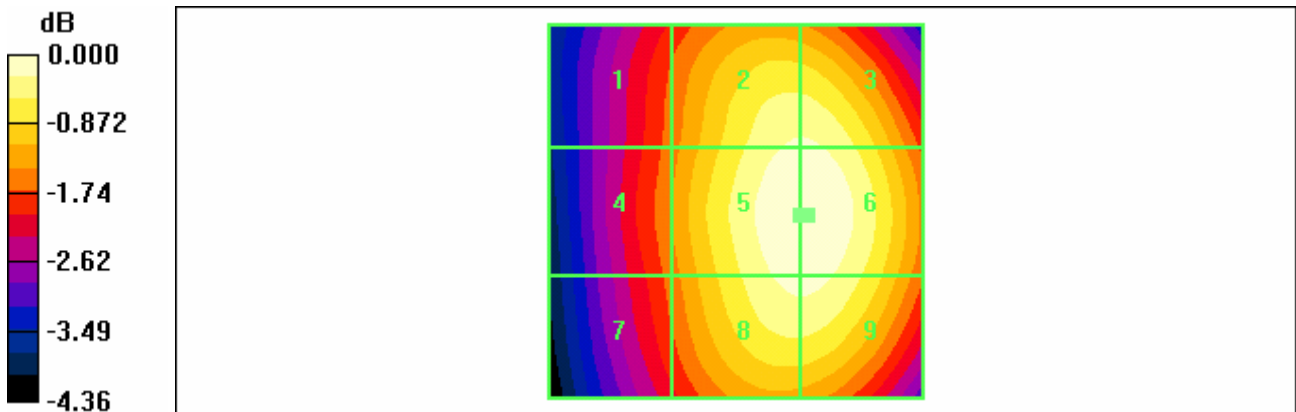
| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 31.1 M4 | 36.2 M4 | 36.2 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 31.6 M4 | 37.1 M4 | 37.2 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 31.0 M4 | 36.4 M4 | 36.4 M4 |

Cursor:

Total = 37.2 V/m

E Category: M4

Location: -9.5, 0.5, 369.9 mm



0 dB = 37.2V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /9262
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1852.4 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

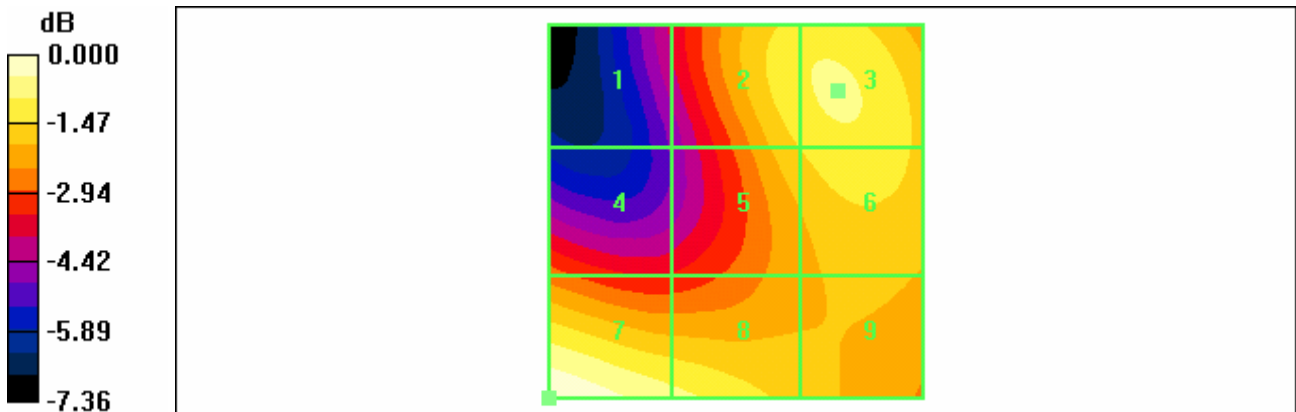
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 32.4 V/m
 Probe Modulation Factor = 0.855
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 27.7 V/m; Power Drift = 0.152 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 20.9 M4 | 28.7 M4 | 29.2 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 23.9 M4 | 27.4 M4 | 28.6 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 32.4 M4 | 29.6 M4 | 26.7 M4 |

Cursor:
 Total = 32.4 V/m
 E Category: M4
 Location: 25, 25, 369.9 mm



0 dB = 32.4V/m

Test Laboratory: HCT CO., LTD.

Ambient Temperature / Channel 21.4 °C /9400

Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:

- Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2009-05-22
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

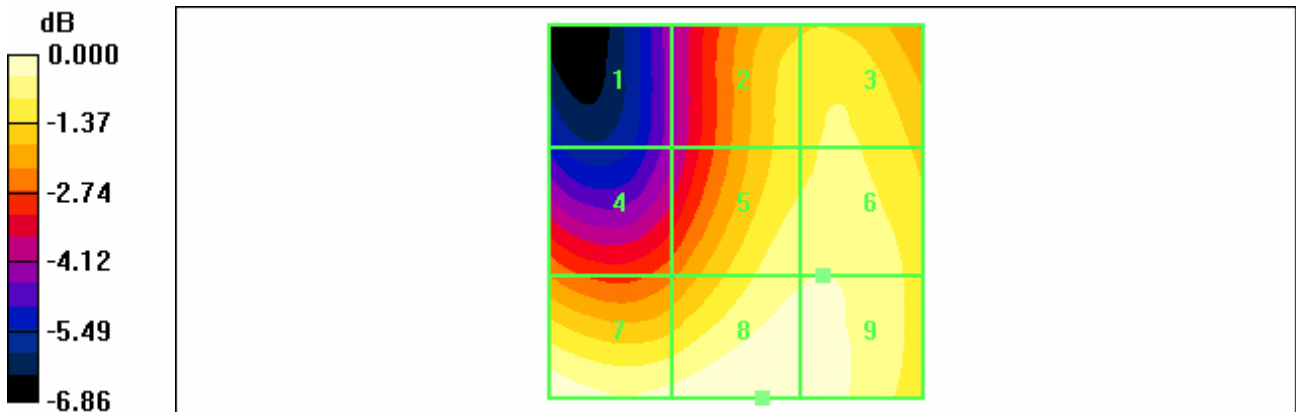
Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 29.0 V/m
 Probe Modulation Factor = 0.855
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 32.2 V/m; Power Drift = -0.120 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 17.9 M4 | 25.7 M4 | 26.3 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 22.4 M4 | 27.4 M4 | 27.5 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 28.8 M4 | 29.0 M4 | 28.6 M4 |

Cursor:

Total = 29.0 V/m
 E Category: M4
 Location: -3.5, 25, 369.9 mm



0 dB = 29.0V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /9538
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1907.6 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

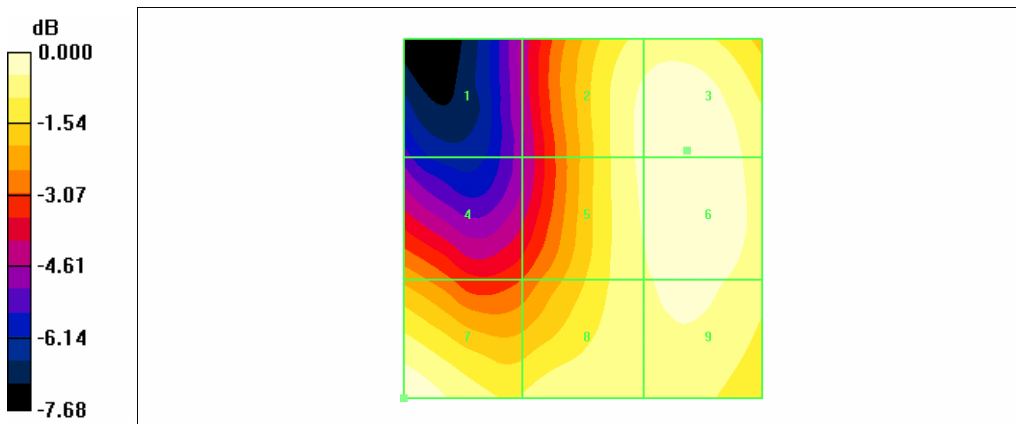
E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):

Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 26.7 V/m
 Probe Modulation Factor = 0.855
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 30.4 V/m; Power Drift = 0.115 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak E-field in V/m

| | | |
|---------|---------|---------|
| Grid 1 | Grid 2 | Grid 3 |
| 16.1 M4 | 25.6 M4 | 26.4 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 20.8 M4 | 25.5 M4 | 26.4 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 26.7 M4 | 25.1 M4 | 25.7 M4 |

Cursor:
 Total = 26.7 V/m
 E Category: M4
 Location: 25, 25, 369.9 mm



0 dB = 26.7V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /4132
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 826.4 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

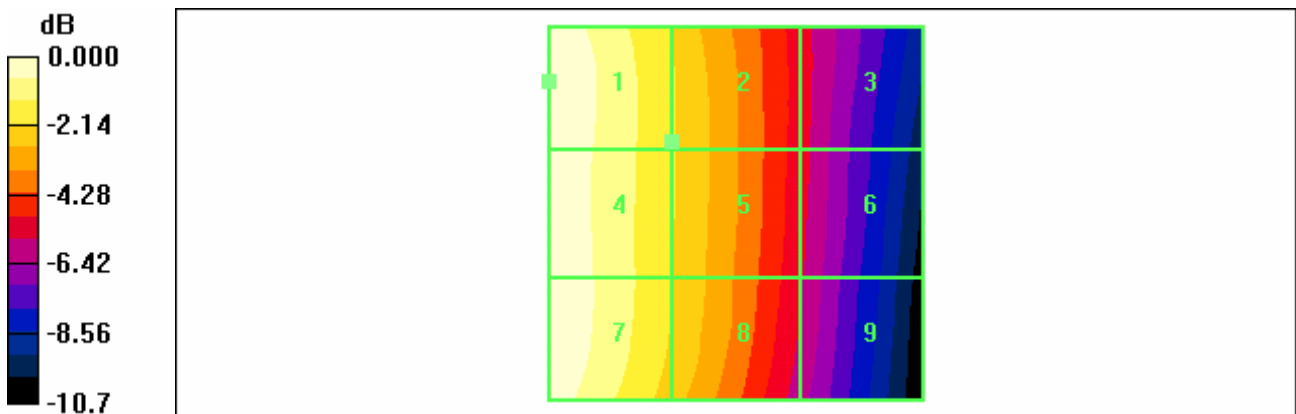
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.093 A/m
 Probe Modulation Factor = 0.825
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.081 A/m; Power Drift = 0.028 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.093 M4 | 0.073 M4 | 0.051 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.093 M4 | 0.073 M4 | 0.050 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.092 M4 | 0.073 M4 | 0.049 M4 |

Cursor:
 Total = 0.093 A/m
 H Category: M4
 Location: 25, -17.5, 369.4 mm



0 dB = 0.093A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /4183
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 836.6 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

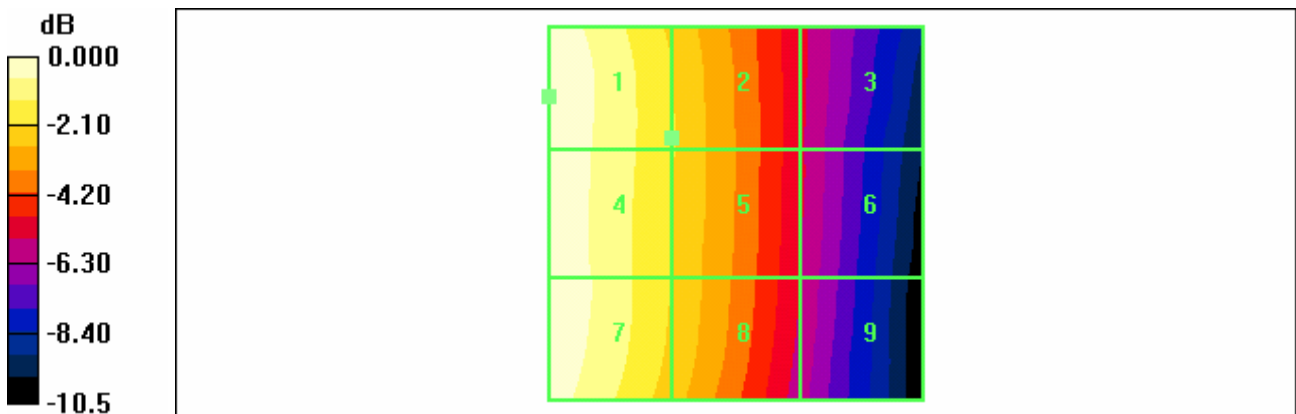
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.075 A/m
 Probe Modulation Factor = 0.825
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.065 A/m; Power Drift = 0.015 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.075 M4 | 0.059 M4 | 0.041 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.074 M4 | 0.059 M4 | 0.040 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.074 M4 | 0.059 M4 | 0.039 M4 |

Cursor:
 Total = 0.075 A/m
 H Category: M4
 Location: 25, -15.5, 369.4 mm



0 dB = 0.075A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /4233
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA850; Frequency: 846.6 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

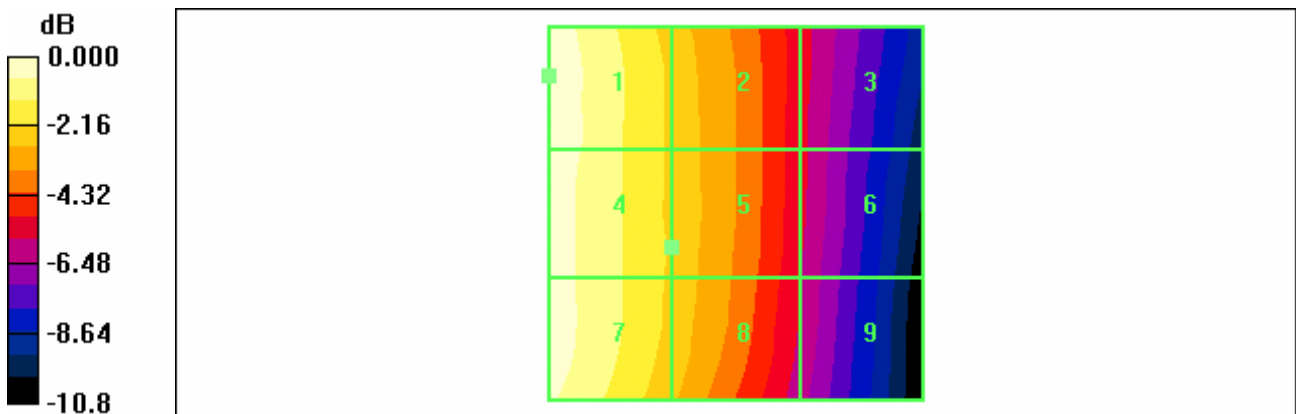
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.075 A/m
 Probe Modulation Factor = 0.825
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.065 A/m; Power Drift = 0.103 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.075 M4 | 0.058 M4 | 0.040 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.074 M4 | 0.058 M4 | 0.040 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.072 M4 | 0.057 M4 | 0.039 M4 |

Cursor:
 Total = 0.075 A/m
 H Category: M4
 Location: 25, -18.5, 369.4 mm



0 dB = 0.075A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /9262
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1852.4 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

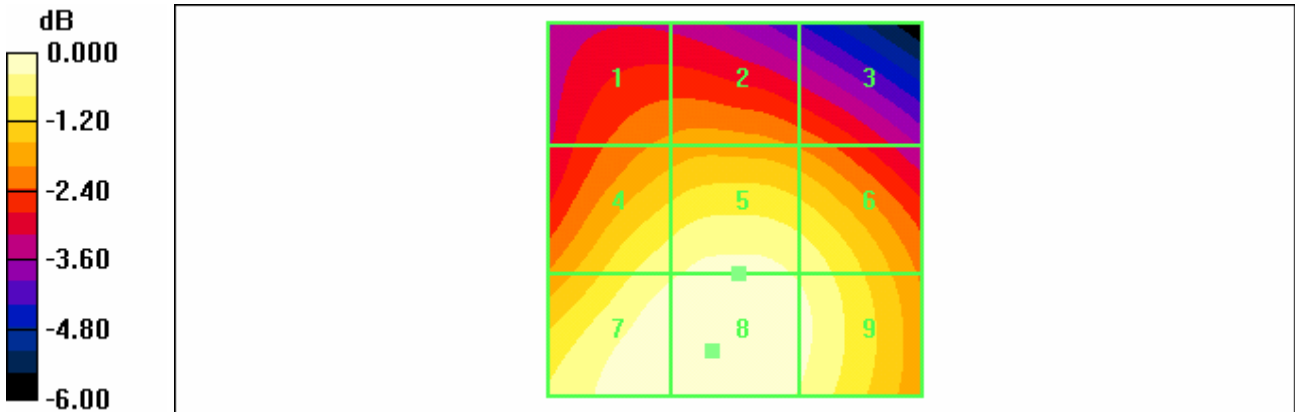
- DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.097 A/m
 Probe Modulation Factor = 0.814
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.117 A/m; Power Drift = -0.070 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.078 M4 | 0.079 M4 | 0.077 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.092 M4 | 0.094 M4 | 0.092 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.097 M4 | 0.097 M4 | 0.094 M4 |

Cursor:
 Total = 0.097 A/m
 H Category: M4
 Location: 3, 19, 369.4 mm



0 dB = 0.097A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /9400
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1880 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

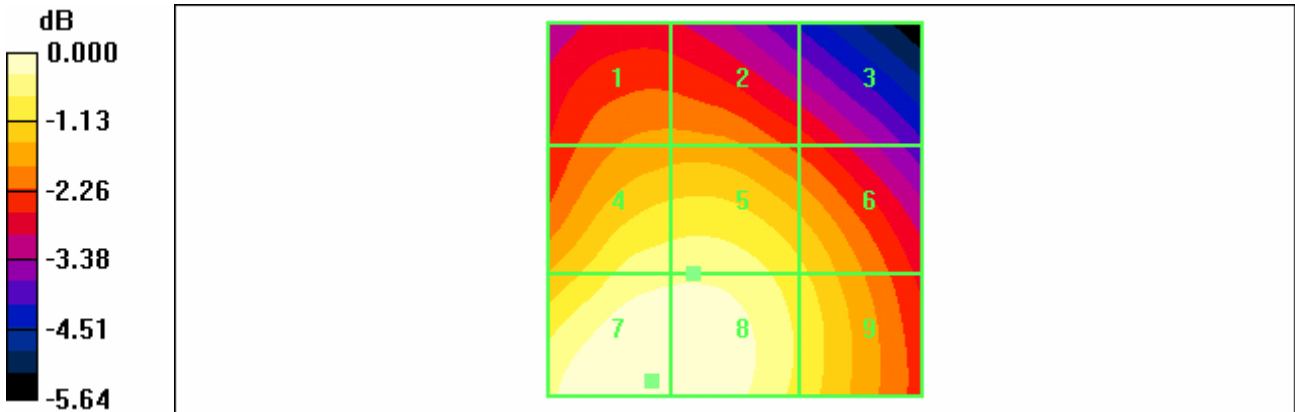
- DASY4 Configuration:
- Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.093 A/m
 Probe Modulation Factor = 0.814
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.109 A/m; Power Drift = 0.055 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.076 M4 | 0.077 M4 | 0.071 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.088 M4 | 0.088 M4 | 0.083 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.093 M4 | 0.093 M4 | 0.085 M4 |

Cursor:
 Total = 0.093 A/m
 H Category: M4
 Location: 11, 23, 369.4 mm



0 dB = 0.093A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature / Channel 21.4 °C /9538
 Test Date Jul.07,2009

DUT: P7000 Type: Bar; Serial: #1

Communication System: WCDMA1900; Frequency: 1907.6 MHz;Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Device Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 176

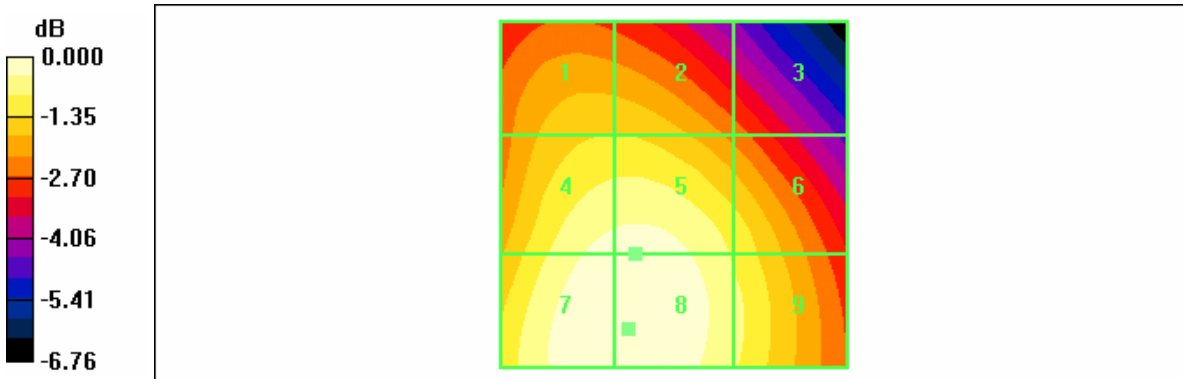
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2009-05-22
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2009-05-22
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (101x101x1):
 Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.090 A/m
 Probe Modulation Factor = 0.814
 Device Reference Point: 0.000, 0.000, 353.7 mm
 Reference Value = 0.110 A/m; Power Drift = 0.001 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

| | | |
|----------|----------|----------|
| Grid 1 | Grid 2 | Grid 3 |
| 0.077 M4 | 0.077 M4 | 0.068 M4 |
| Grid 4 | Grid 5 | Grid 6 |
| 0.087 M4 | 0.088 M4 | 0.081 M4 |
| Grid 7 | Grid 8 | Grid 9 |
| 0.090 M4 | 0.090 M4 | 0.083 M4 |

Cursor:
 Total = 0.090 A/m
 H Category: M4
 Location: 6.5, 19.5, 369.4 mm



0 dB = 0.090A/m