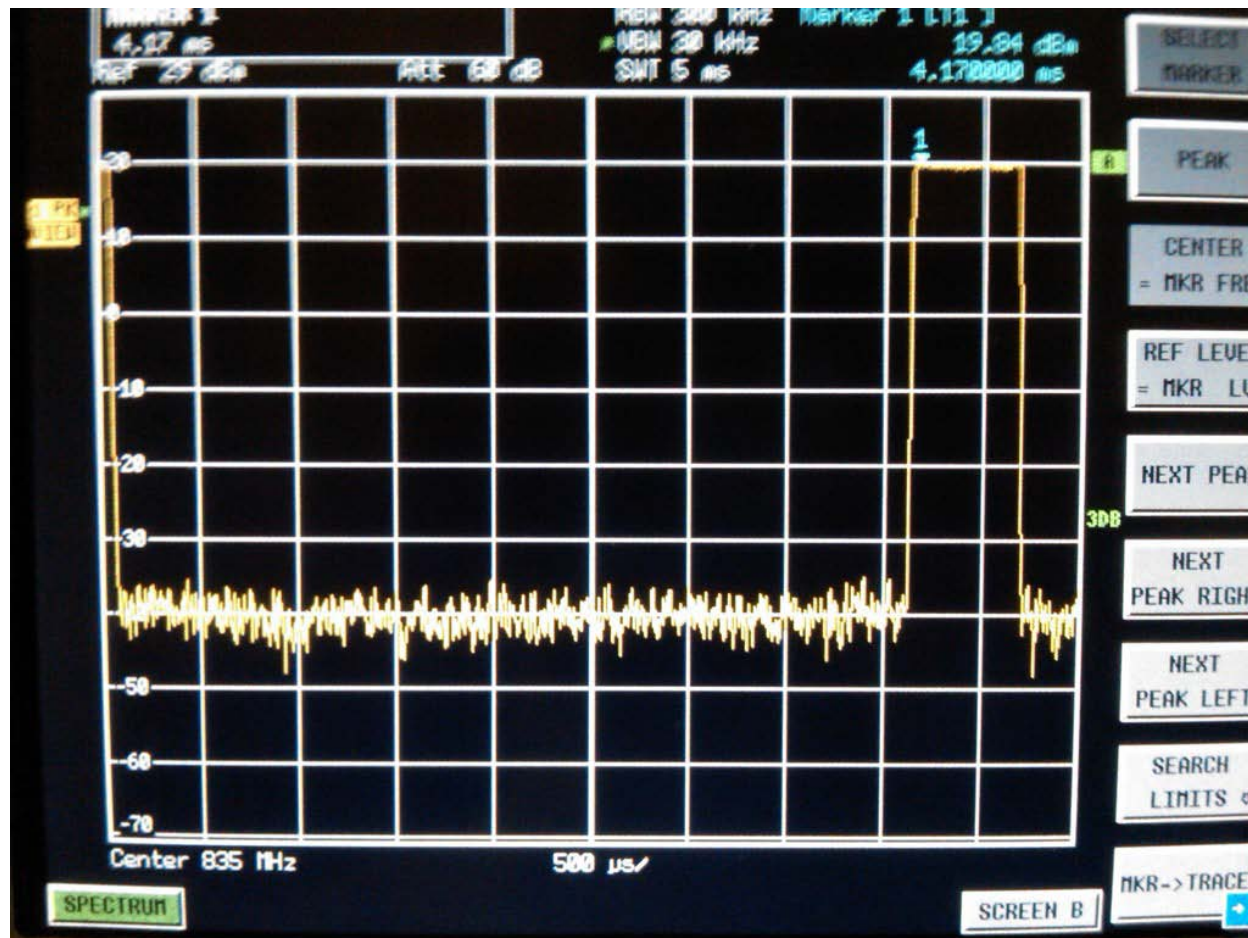

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/REN71UW		1 (342)
Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Annex A: Measurement data and plots

A.1 Spectrum analyser plots: GSM/WCDMA, CW and 80%AM signals




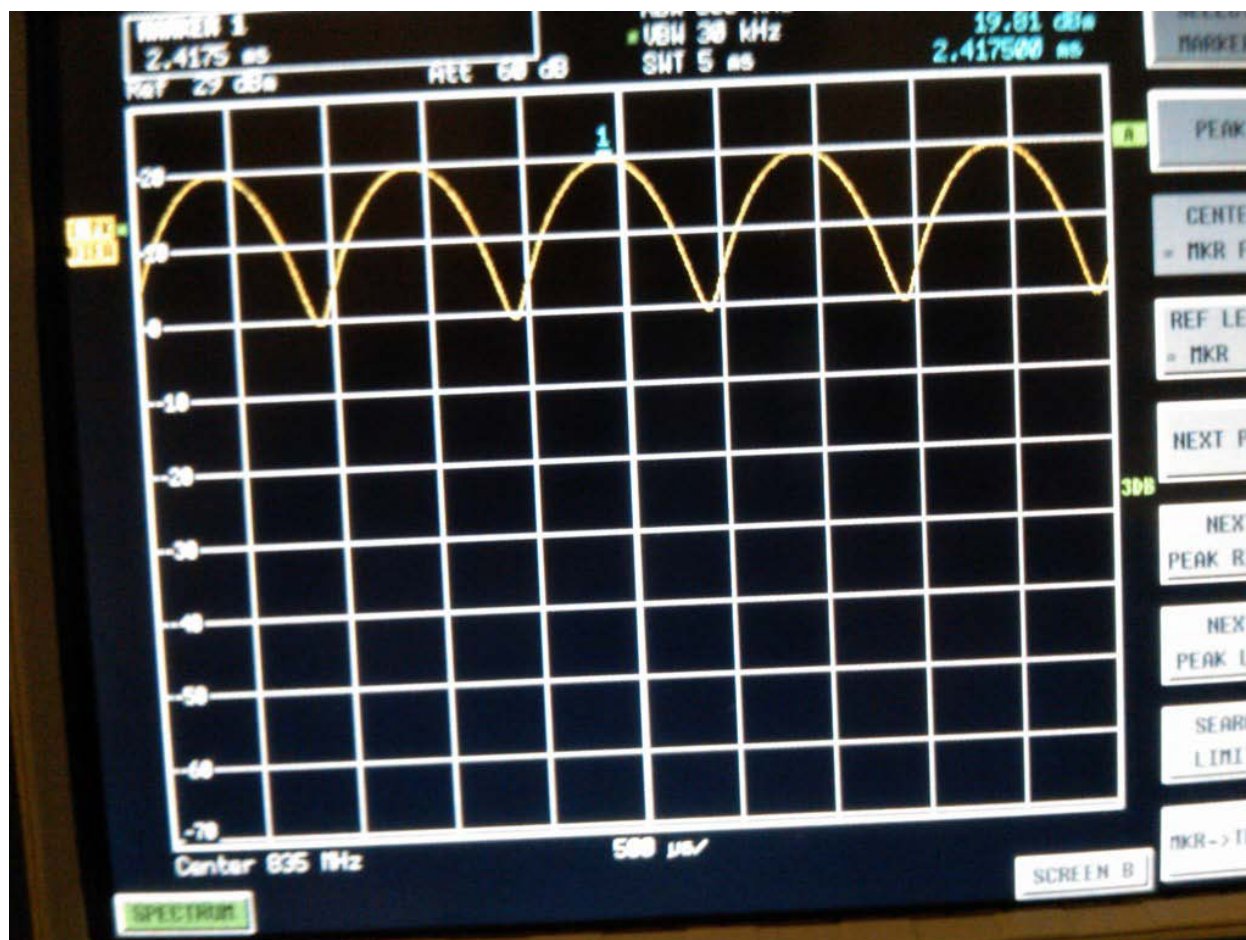
0 Hz Span GSM Plot (835MHz)

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/ REN71UW		2 (342)
Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




0 Hz Span CDMA Plot (835MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




0 Hz Span AM 80% (835MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




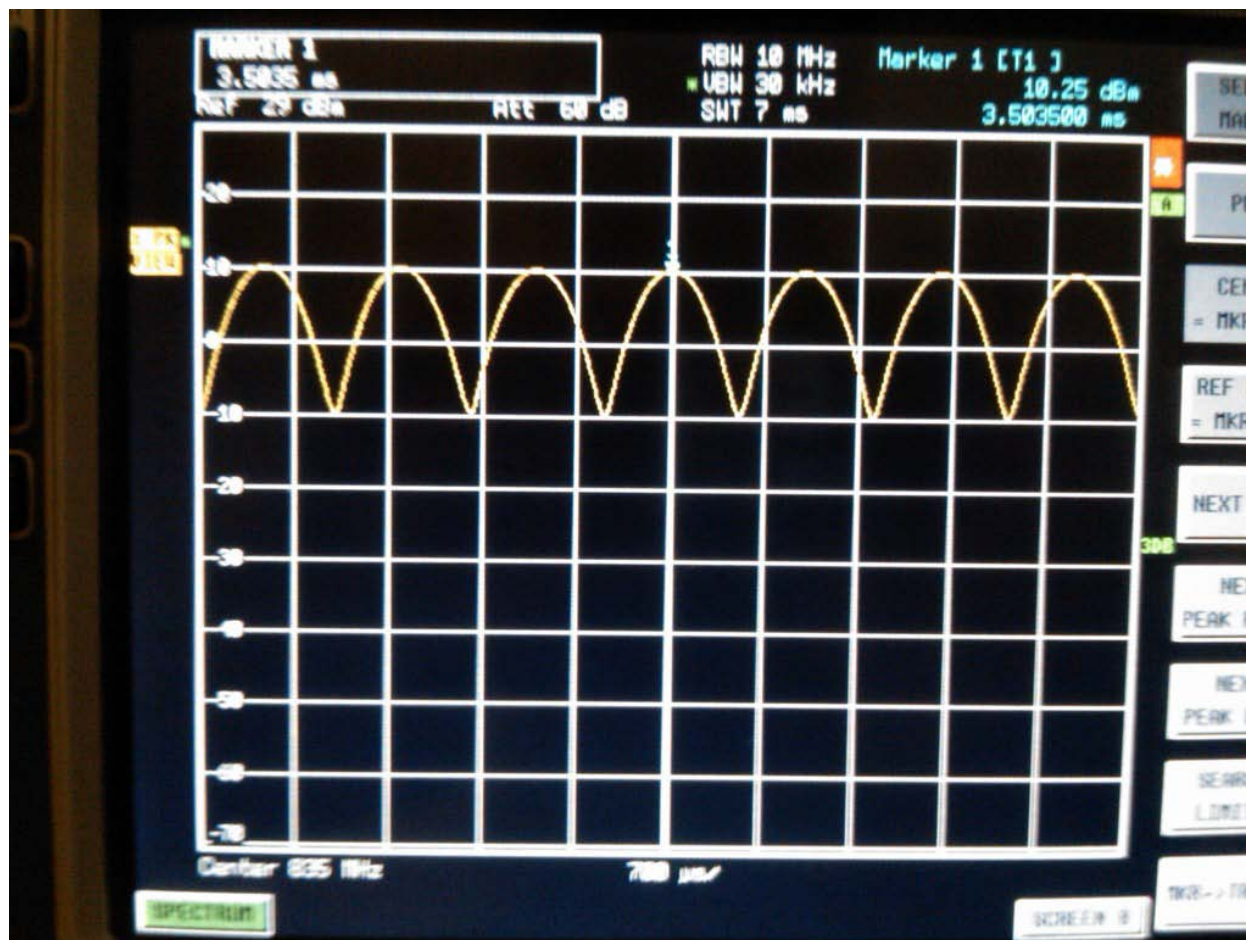
0 Hz Span WCDMA Plot (835MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




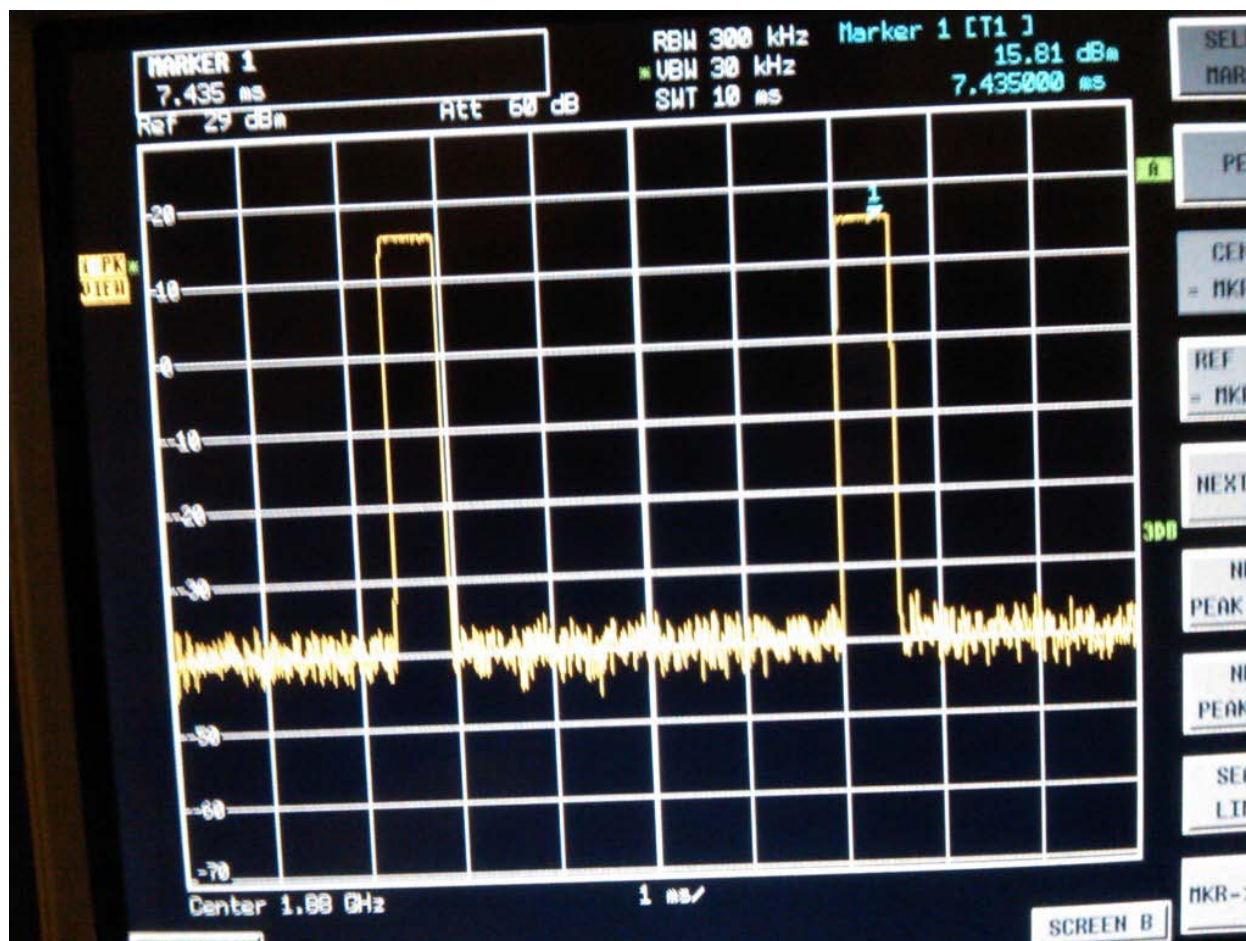
0 Hz Span CW Plot (835MHz)

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	Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B FCC ID L6ARDM70UW L6AREN70UW




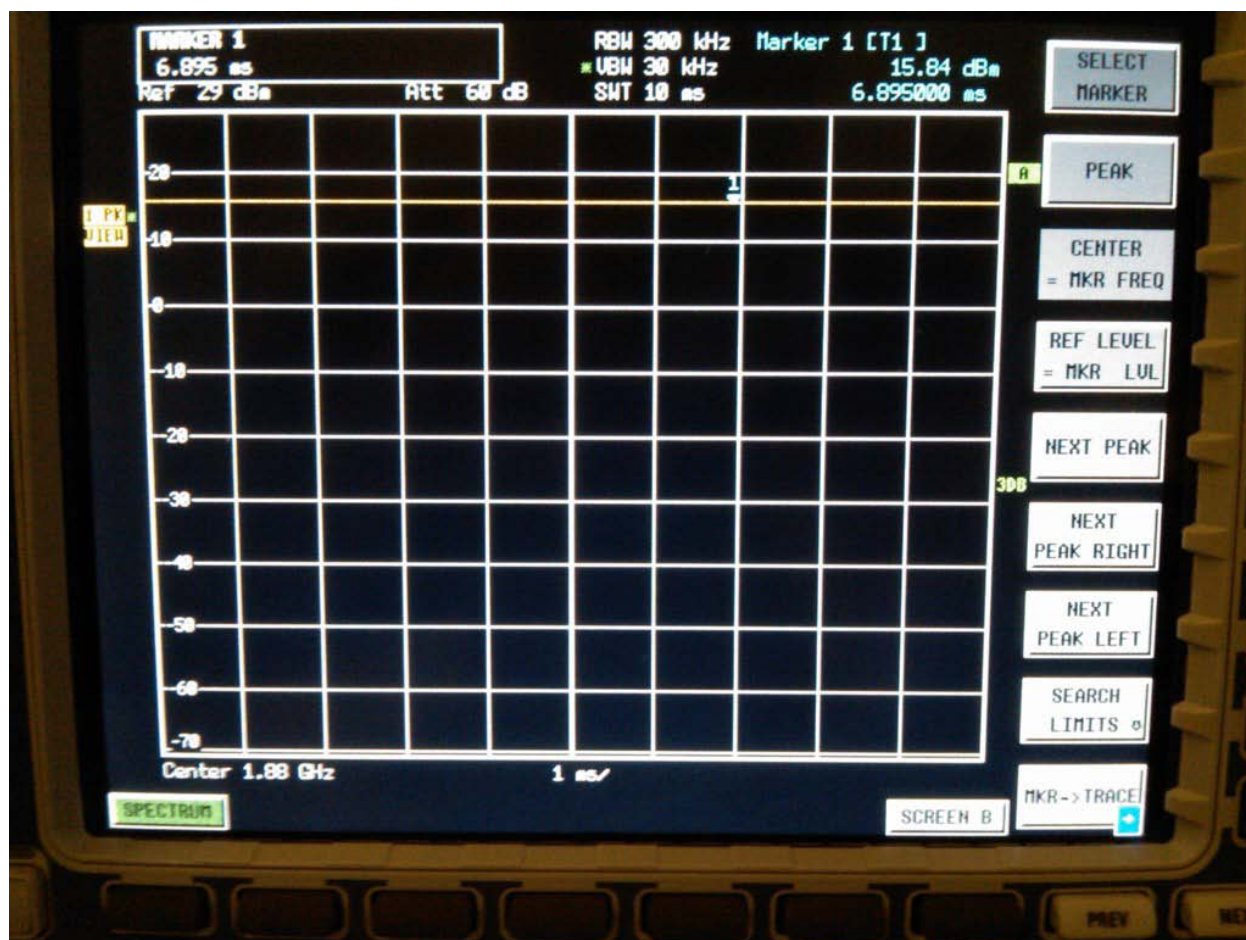
0 Hz Span AM80% (835MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




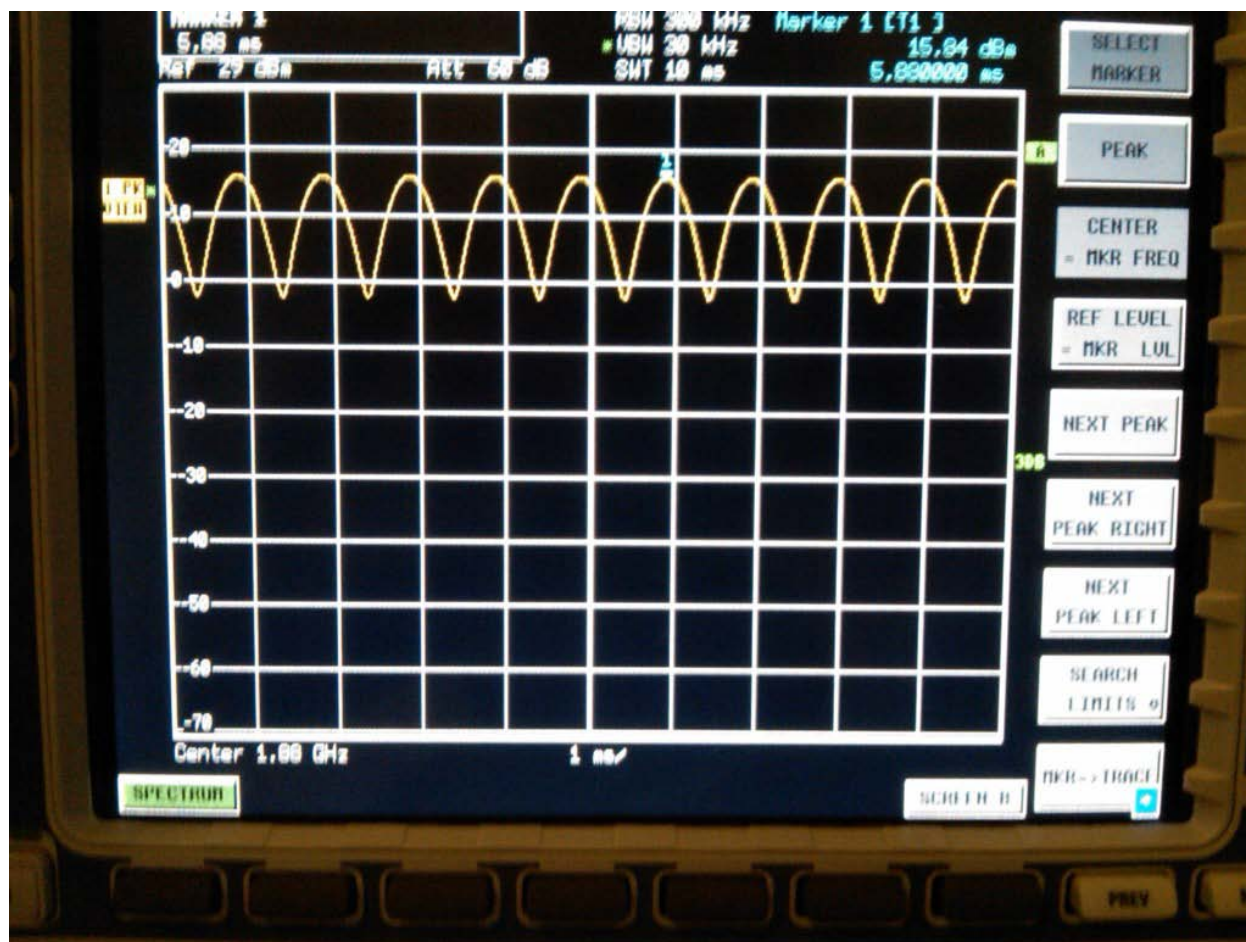
0 Hz Span GSM Plot (1880MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




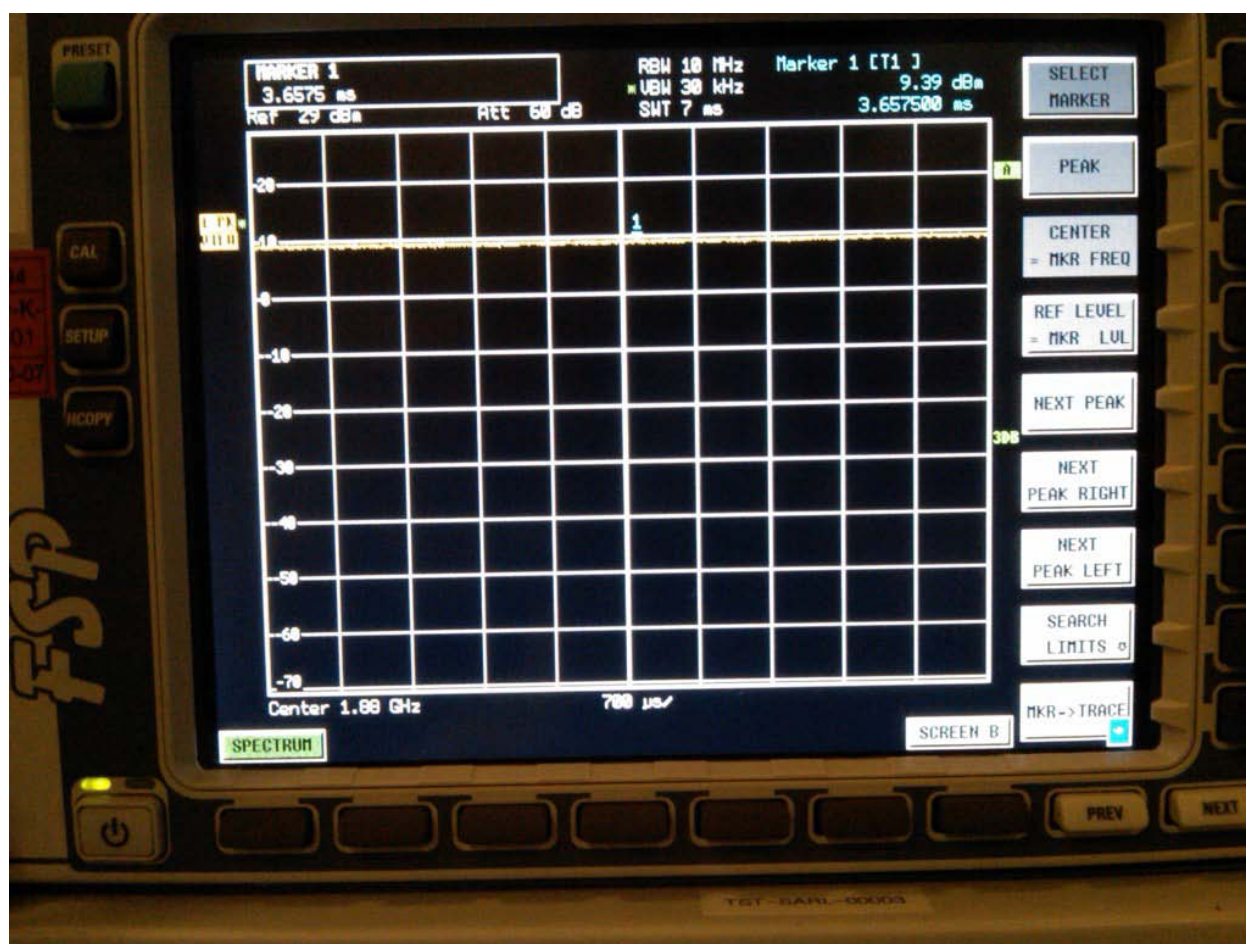
0 Hz Span CW Plot (1880MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




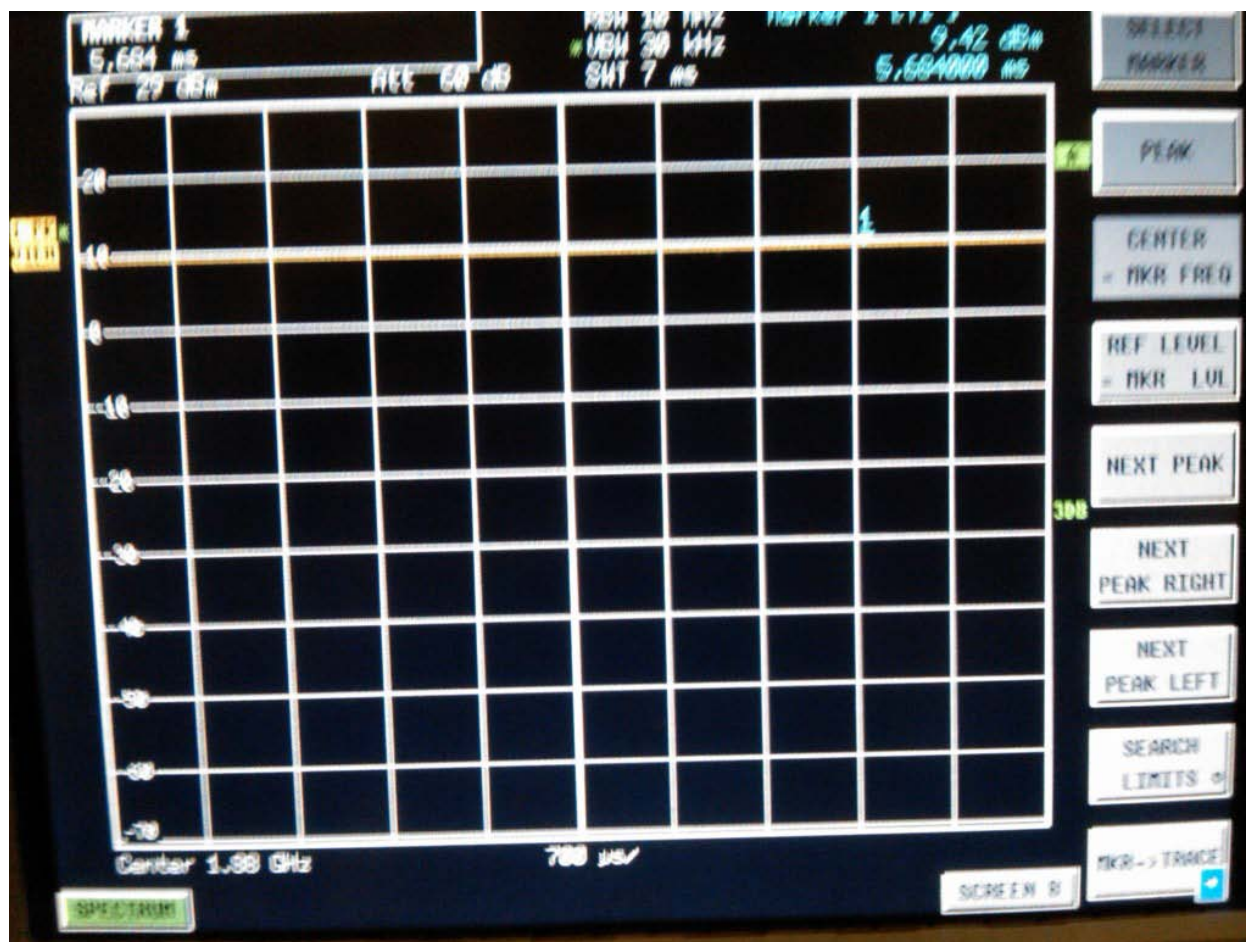
0 Hz Span AM80% (1880MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




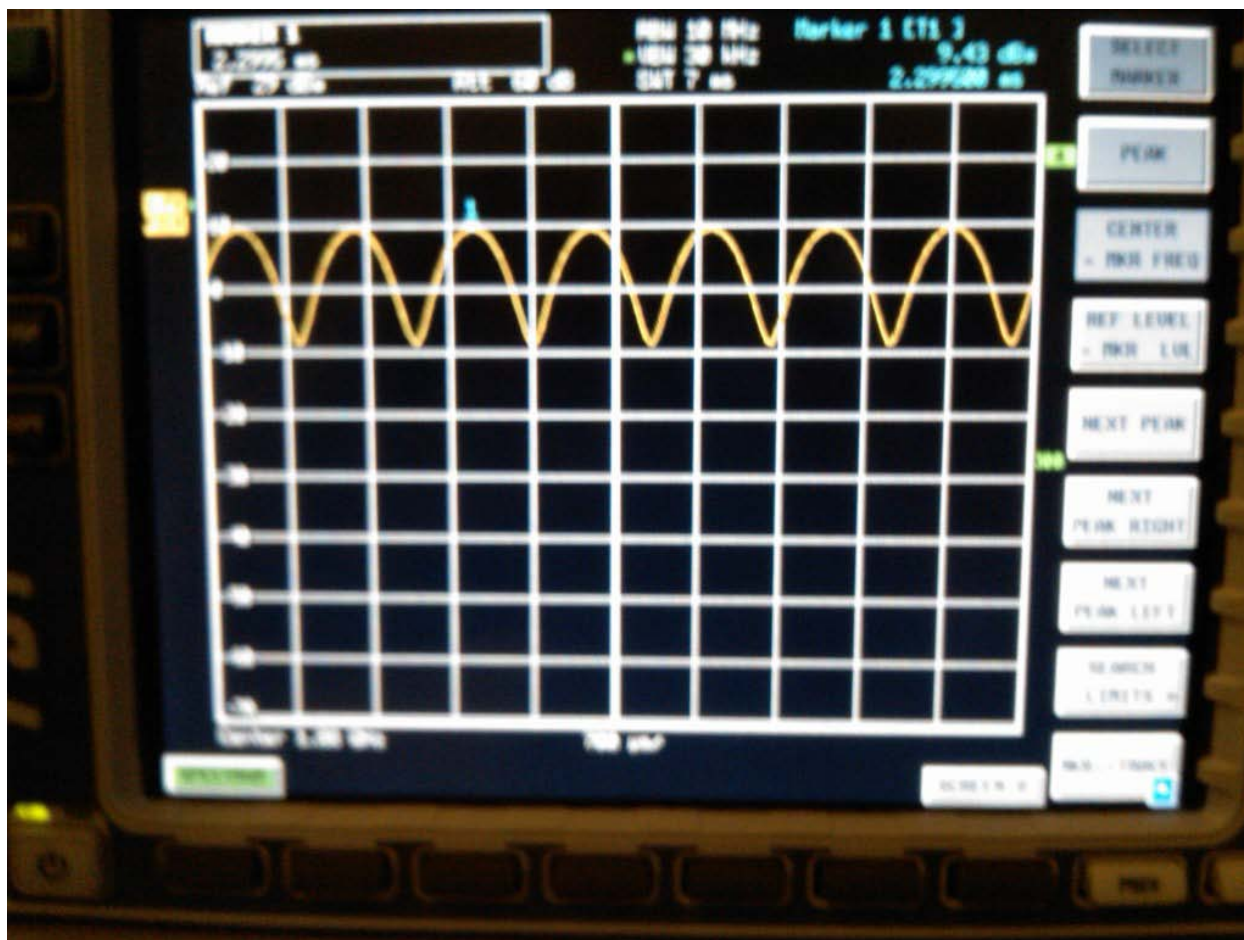
0 Hz Span WCDMA II Plot (1880MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




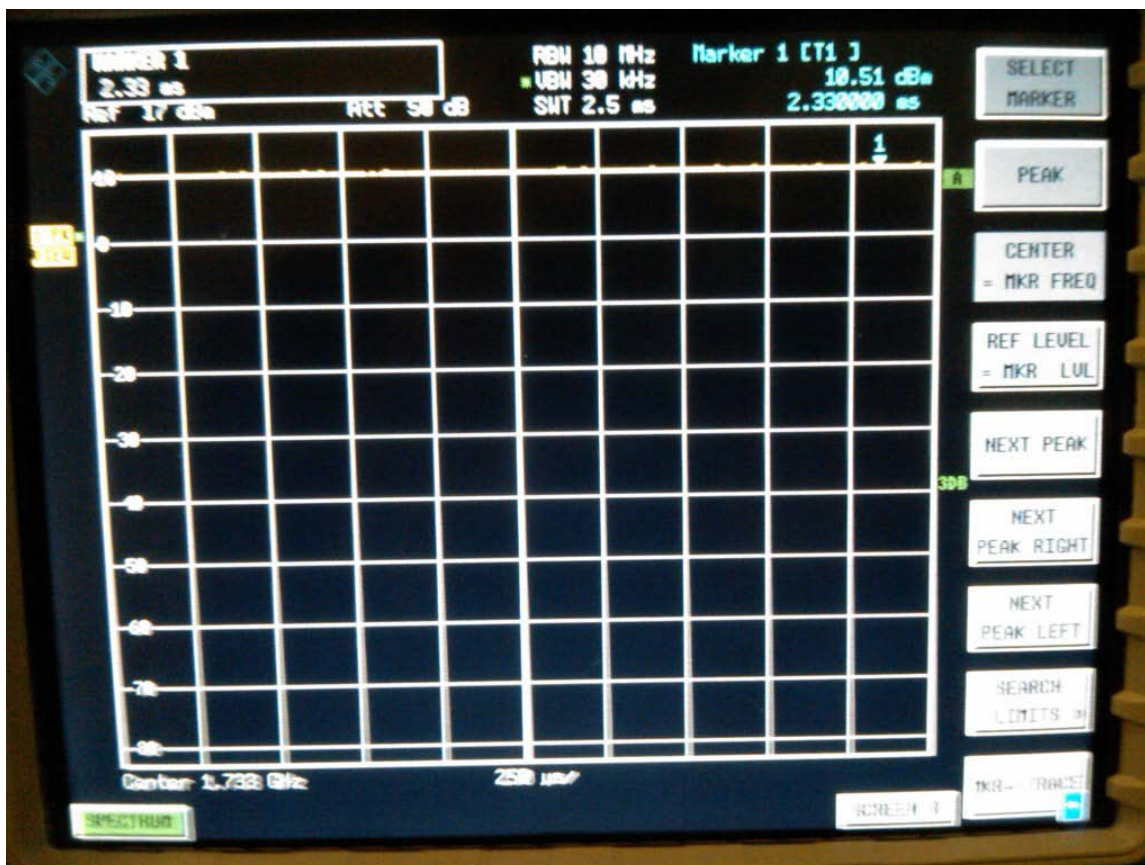
0 Hz Span CW Plot (1880MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




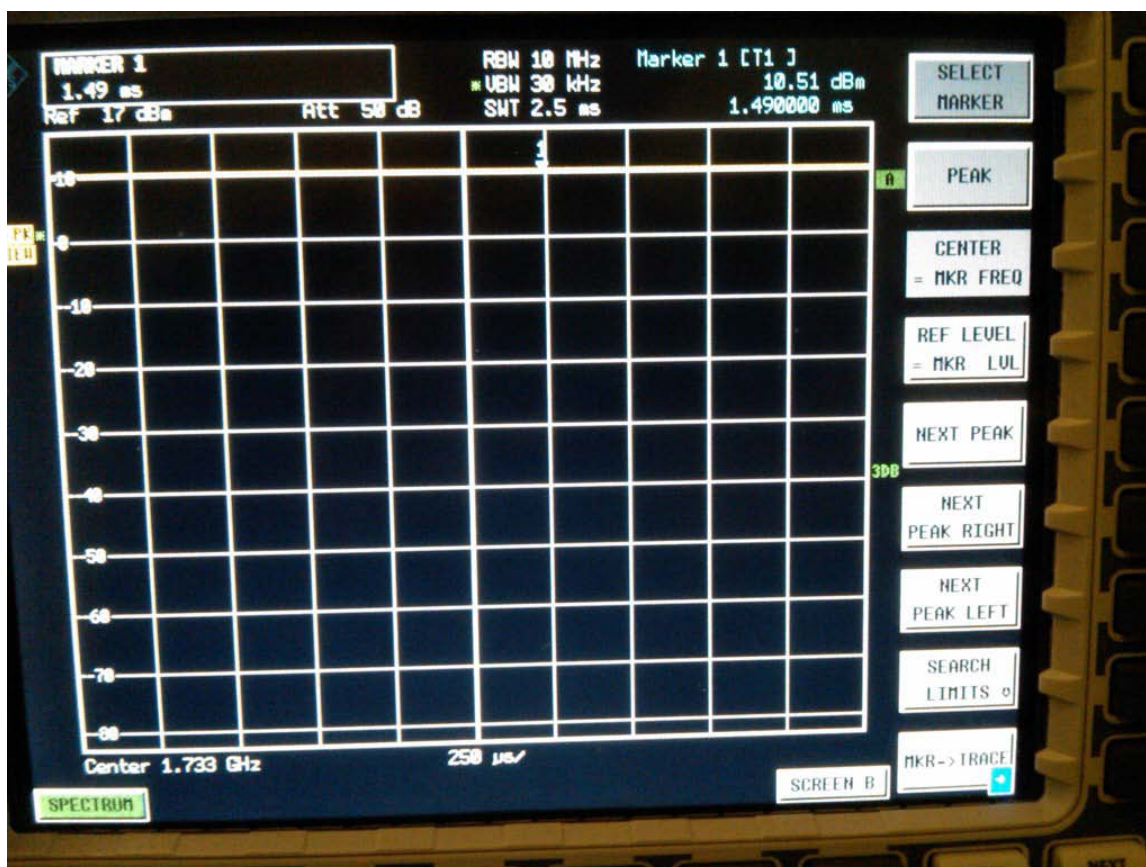
0 Hz Span AM80% (1880MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




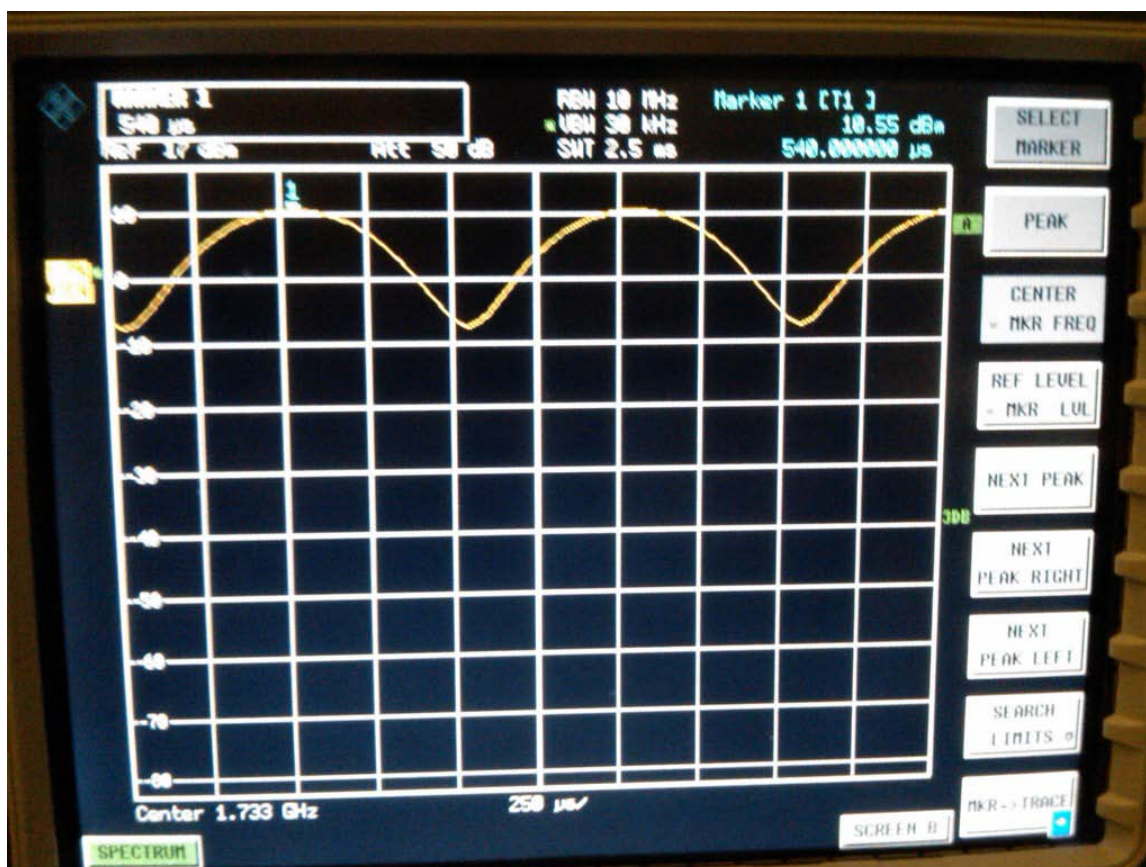
0 Hz Span WCDMA IV Plot (1733 MHz)

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW




0 Hz Span CW (1733 MHz)


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0 Hz Span AM 80% (1733 MHz)

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A.2 Dipole validation and probe modulation factor plots

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Date/Time: 1/12/2011 12:39:57 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: CW; Frequency: 835 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x37x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 110.5 V/m; Power Drift = -0.014 dB

Maximum value of Total (measured) = 168.0 V/m

E Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm/Hearing Aid Compatibility Test (41x361x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 169.7 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

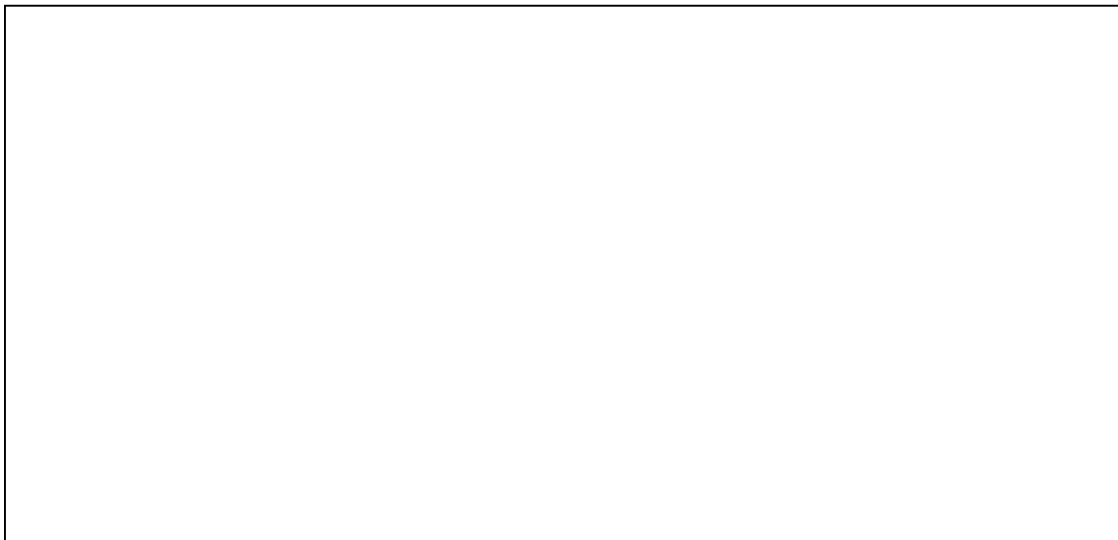
Reference Value = 110.5 V/m; Power Drift = -0.014 dB

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


Peak E-field in V/m

Grid 1 143.5 M4	Grid 2 169.7 M4	Grid 3 169.7 M4
Grid 4 70.5 M4	Grid 5 84.9 M4	Grid 6 85.0 M4
Grid 7 137.9 M4	Grid 8 166.2 M4	Grid 9 166.5 M4

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0 dB = 169.7V/m

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Date/Time: 1/12/2011 1:04:20 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: GSM 850; Frequency: 835 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.6 V/m; Power Drift = -0.001 dB

Maximum value of Total (measured) = 42.5 V/m

E Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 42.6 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

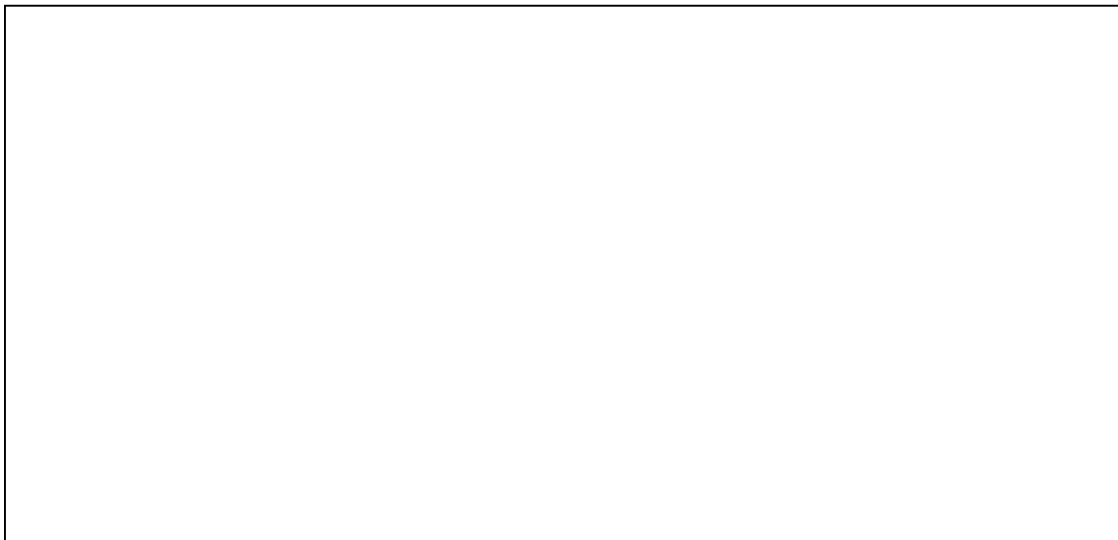
Reference Value = 34.6 V/m; Power Drift = -0.001 dB

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


Peak E-field in V/m

Grid 1 39.9 M4	Grid 2 40.9 M4	Grid 3 39.0 M4
Grid 4 41.1 M4	Grid 5 42.6 M4	Grid 6 41.1 M4
Grid 7 40.8 M4	Grid 8 42.5 M4	Grid 9 41.2 M4

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0 dB = 42.6V/m

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Date/Time: 1/12/2011 12:52:38 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_CW_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 103.8 V/m; Power Drift = -0.095 dB

Maximum value of Total (measured) = 127.7 V/m

E Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 128.0 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

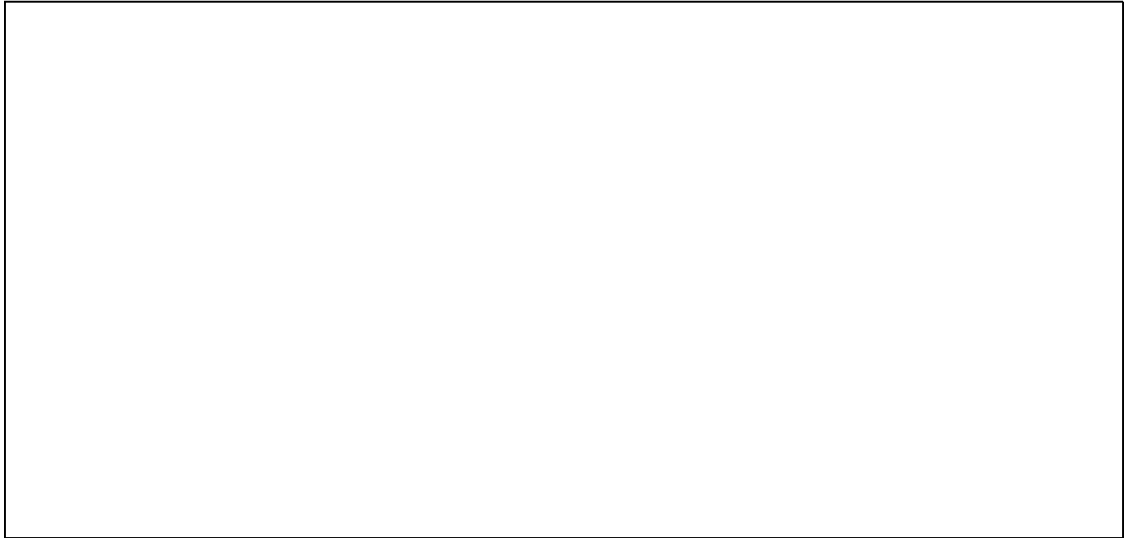
Reference Value = 103.8 V/m; Power Drift = -0.095 dB

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


Peak E-field in V/m

Grid 1 119.1 M4	Grid 2 122.8 M4	Grid 3 118.9 M4
Grid 4 122.2 M4	Grid 5 128.0 M4	Grid 6 124.4 M4
Grid 7 121.1 M4	Grid 8 127.8 M4	Grid 9 124.6 M4

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0 dB = 128.0V/m

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Date/Time: 1/12/2011 1:00:12 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_AM80%_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: AM 80%; Frequency: 835 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 63.6 V/m; Power Drift = 0.052 dB

Maximum value of Total (measured) = 79.5 V/m

E Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 80.1 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

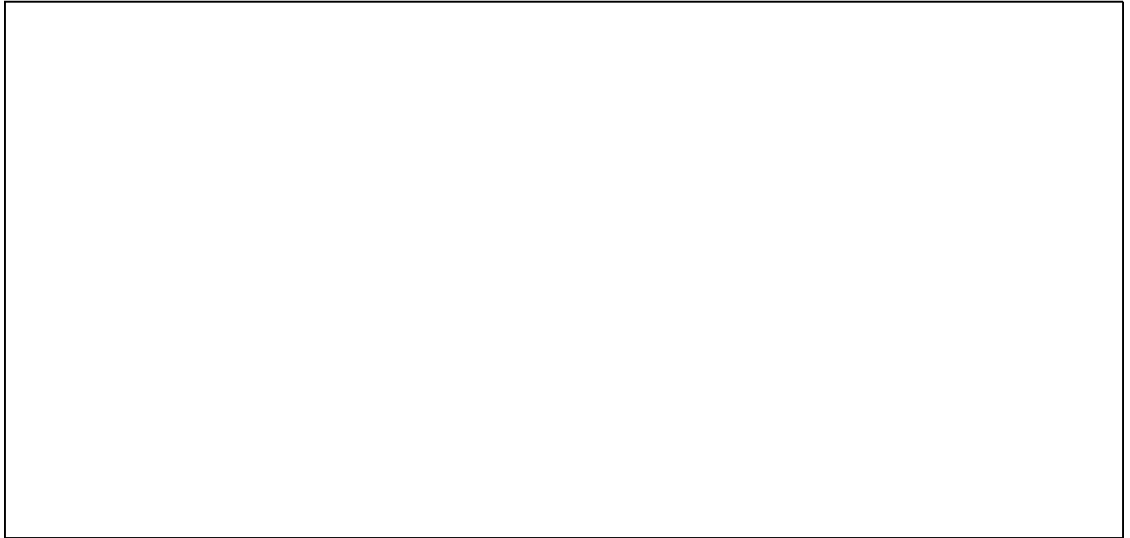
Reference Value = 63.6 V/m; Power Drift = 0.052 dB

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


Peak E-field in V/m

Grid 1 74.1 M4	Grid 2 76.6 M4	Grid 3 74.3 M4
Grid 4 76.1 M4	Grid 5 80.1 M4	Grid 6 77.6 M4
Grid 7 75.3 M4	Grid 8 79.2 M4	Grid 9 77.6 M4

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0 dB = 80.1V/m

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Date/Time: 1/12/2011 2:19:32 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_WCDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: WCDMA FDD V; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 36.2 V/m; Power Drift = -0.048 dB

Maximum value of Total (measured) = 44.2 V/m

E Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 44.5 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

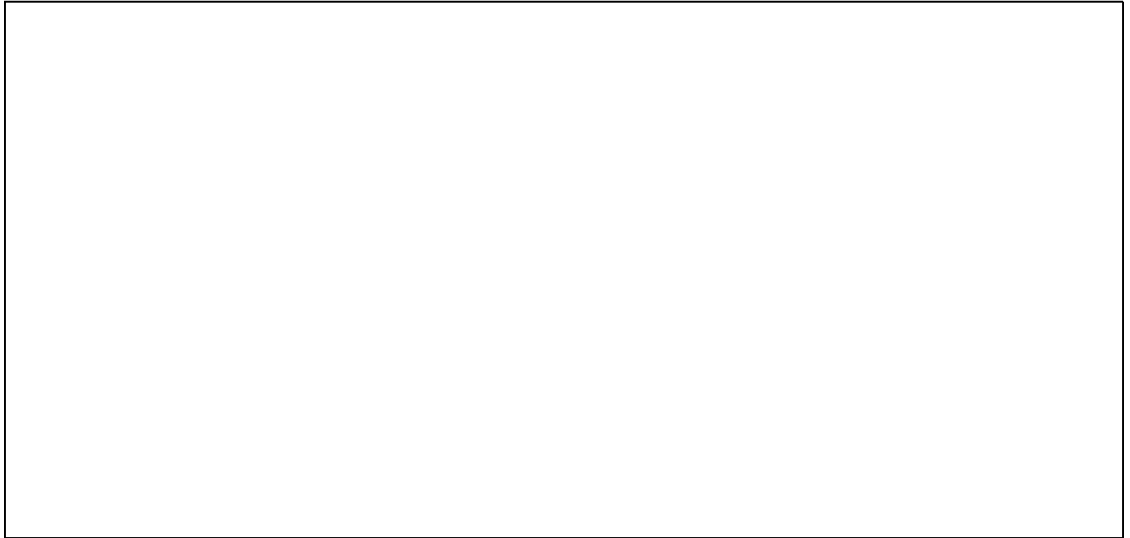
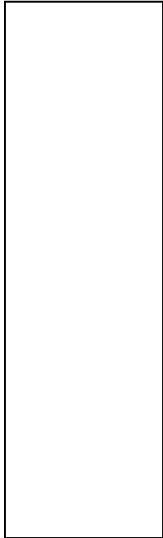
Reference Value = 36.2 V/m; Power Drift = -0.048 dB

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


Peak E-field in V/m

Grid 1 41.1 M4	Grid 2 43.0 M4	Grid 3 41.9 M4
Grid 4 42.2 M4	Grid 5 44.5 M4	Grid 6 43.9 M4
Grid 7 41.6 M4	Grid 8 44.3 M4	Grid 9 43.9 M4

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0 dB = 44.5V/m

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Date/Time: 1/12/2011 1:59:34 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_CW_WCDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 35.4 V/m; Power Drift = -0.025 dB

Maximum value of Total (measured) = 42.1 V/m

E Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 42.8 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

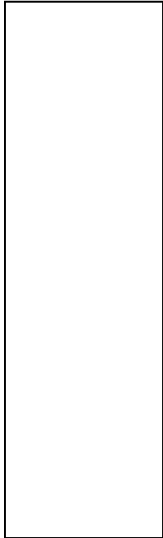
Reference Value = 35.4 V/m; Power Drift = -0.025 dB

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


Peak E-field in V/m

Grid 1 38.5 M4	Grid 2 41.1 M4	Grid 3 40.8 M4
Grid 4 39.5 M4	Grid 5 42.8 M4	Grid 6 42.7 M4
Grid 7 39.2 M4	Grid 8 42.8 M4	Grid 9 42.7 M4

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0 dB = 42.8V/m

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Date/Time: 1/12/2011 2:06:22 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_835MHz_AM80%_WCDMA

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: AM 80%; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 22.6 V/m; Power Drift = -0.033 dB

Maximum value of Total (measured) = 26.8 V/m

E Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 27.2 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

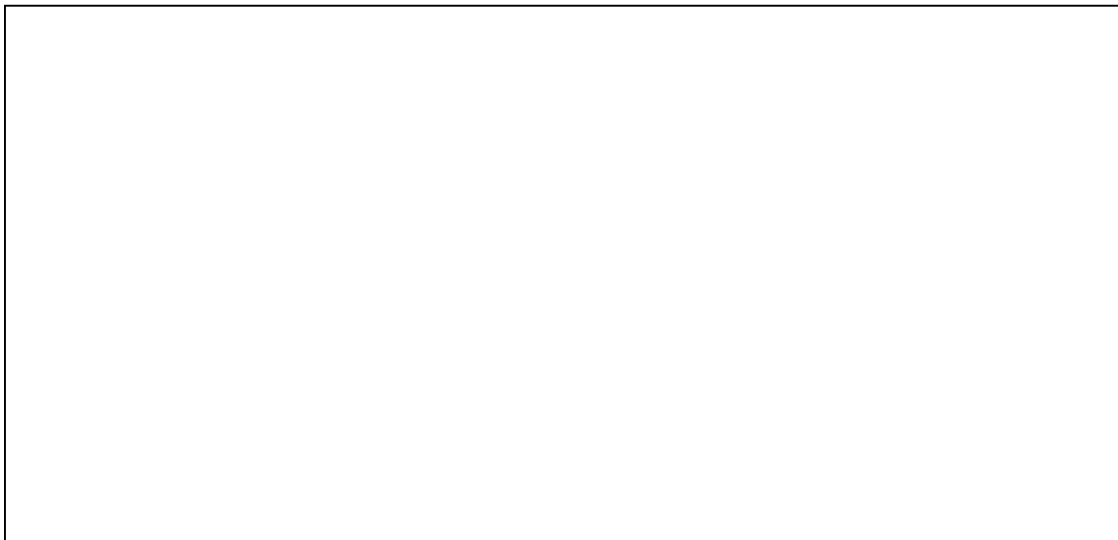
Reference Value = 22.6 V/m; Power Drift = -0.033 dB

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


Peak E-field in V/m

Grid 1 24.5 M4	Grid 2 26.2 M4	Grid 3 26.0 M4
Grid 4 25.1 M4	Grid 5 27.2 M4	Grid 6 27.1 M4
Grid 7 24.9 M4	Grid 8 27.2 M4	Grid 9 27.1 M4

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0 dB = 27.2V/m

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Date/Time: 1/12/2011 2:35:41 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DAS4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x19x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 128.4 V/m; Power Drift = -0.030 dB

Maximum value of Total (measured) = 126.3 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 127.8 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

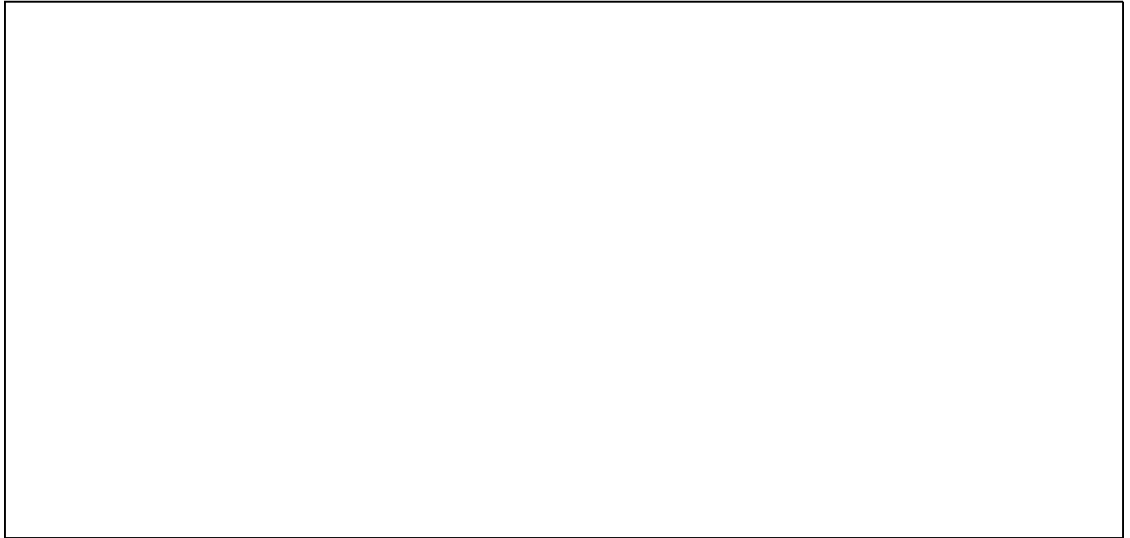
Reference Value = 128.4 V/m; Power Drift = -0.030 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)


Peak E-field in V/m

Grid 1 109.1 M3	Grid 2 127.8 M2	Grid 3 127.8 M2
Grid 4 68.3 M3	Grid 5 75.8 M3	Grid 6 75.8 M3
Grid 7 106.5 M3	Grid 8 123.0 M2	Grid 9 123.0 M2

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0 dB = 127.8V/m

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Date/Time: 1/12/2011 2:55:50 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

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: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 28.5 V/m; Power Drift = -0.028 dB

Maximum value of Total (measured) = 23.2 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 23.3 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

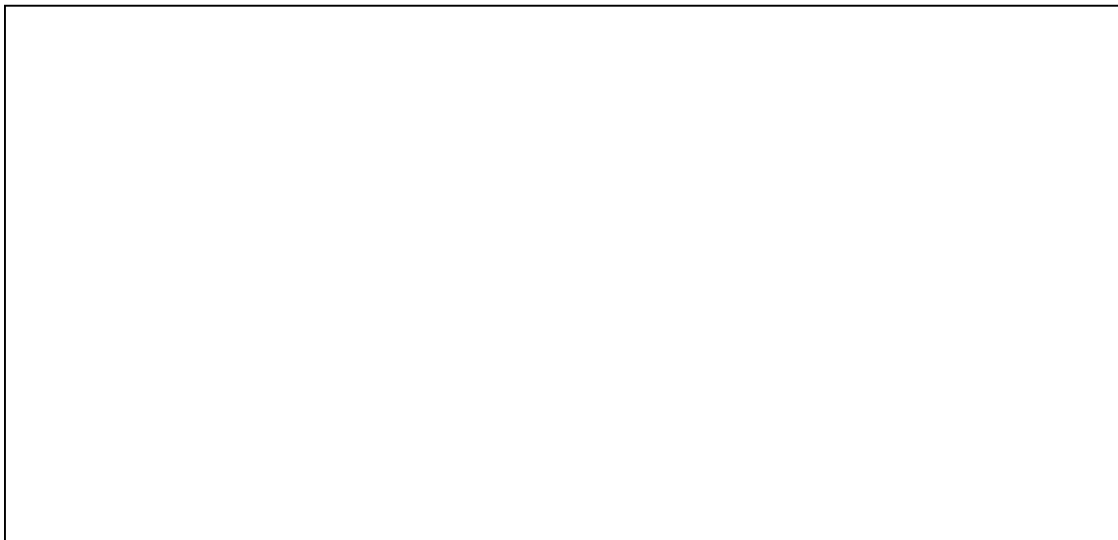
Reference Value = 28.5 V/m; Power Drift = -0.028 dB

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


Peak E-field in V/m

Grid 1 21.8 M4	Grid 2 22.6 M4	Grid 3 21.8 M4
Grid 4 22.2 M4	Grid 5 23.3 M4	Grid 6 22.6 M4
Grid 7 21.7 M4	Grid 8 22.7 M4	Grid 9 22.2 M4

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0 dB = 23.3V/m

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Date/Time: 1/12/2011 2:41:36 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_CW_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 73.4 V/m; Power Drift = 0.047 dB

Maximum value of Total (measured) = 60.8 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 60.9 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

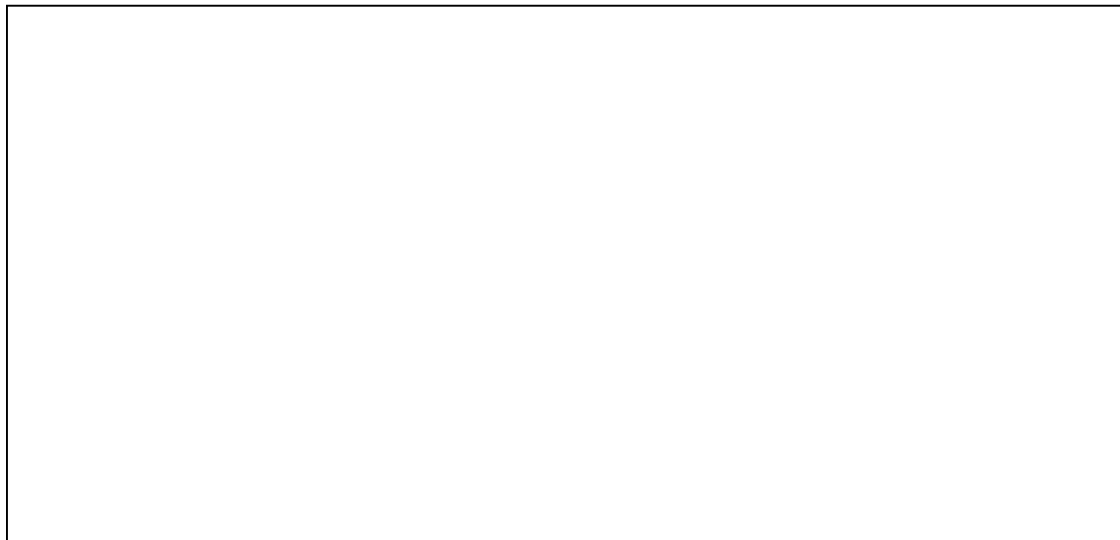
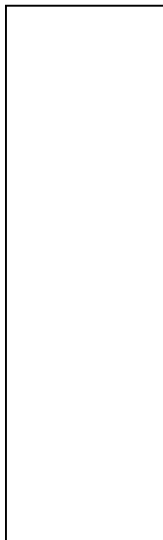
Reference Value = 73.4 V/m; Power Drift = 0.047 dB

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


Peak E-field in V/m

Grid 1 57.6 M4	Grid 2 59.9 M4	Grid 3 57.3 M4
Grid 4 58.4 M4	Grid 5 60.9 M4	Grid 6 58.9 M4
Grid 7 56.6 M4	Grid 8 59.5 M4	Grid 9 57.8 M4

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Author Data Andrew Becker			



0 dB = 60.9V/m

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Date/Time: 1/12/2011 2:45:33 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_AM80%_GSM

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: AM 80%; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 46.8 V/m; Power Drift = 0.052 dB

Maximum value of Total (measured) = 38.6 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 38.6 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

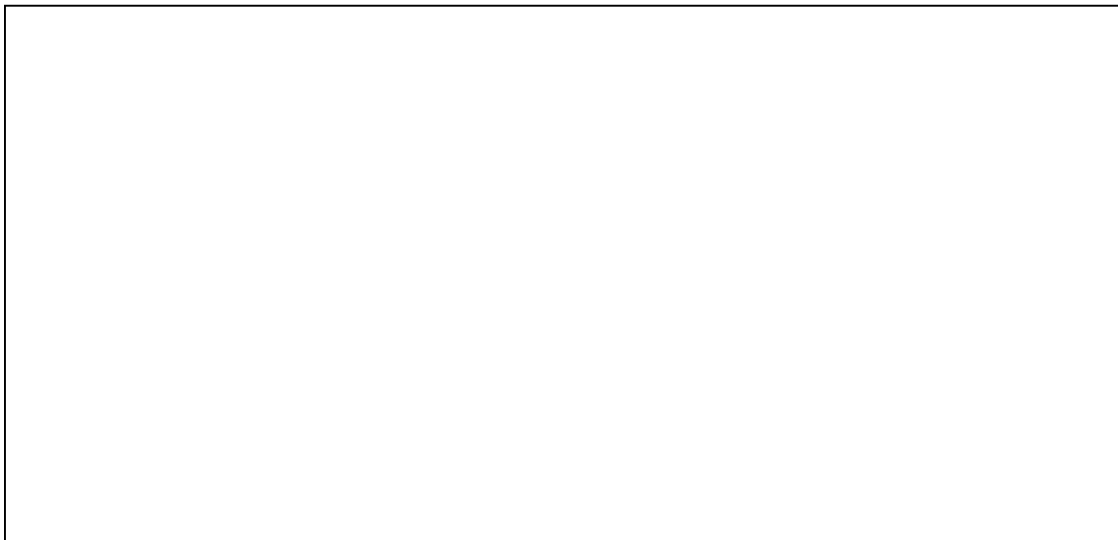
Reference Value = 46.8 V/m; Power Drift = 0.052 dB

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


Peak E-field in V/m

Grid 1 36.5 M4	Grid 2 37.9 M4	Grid 3 36.6 M4
Grid 4 37.1 M4	Grid 5 38.6 M4	Grid 6 37.5 M4
Grid 7 36.1 M4	Grid 8 37.7 M4	Grid 9 36.9 M4

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0 dB = 38.6V/m

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Date/Time: 1/12/2011 3:05:57 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_WCDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: WCDMA FDD II; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 39.2 V/m; Power Drift = -0.172 dB

Maximum value of Total (measured) = 31.3 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 31.4 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

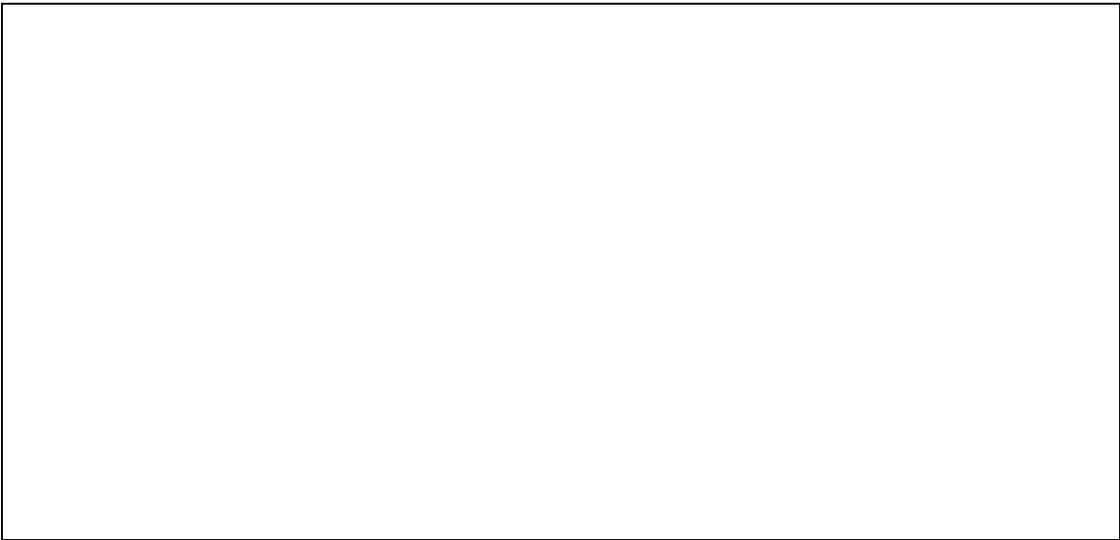
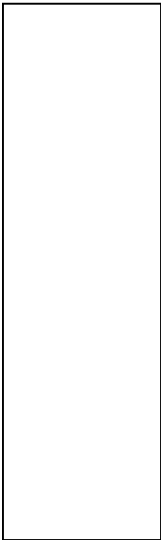
Reference Value = 39.2 V/m; Power Drift = -0.172 dB

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


Peak E-field in V/m

Grid 1 29.6 M4	Grid 2 30.8 M4	Grid 3 30.0 M4
Grid 4 30.1 M4	Grid 5 31.4 M4	Grid 6 30.9 M4
Grid 7 29.4 M4	Grid 8 31.1 M4	Grid 9 30.5 M4

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0 dB = 31.4V/m

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Date/Time: 1/12/2011 2:51:24 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_CW_WCDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 34.7 V/m; Power Drift = -0.060 dB

Maximum value of Total (measured) = 28.3 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 28.3 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

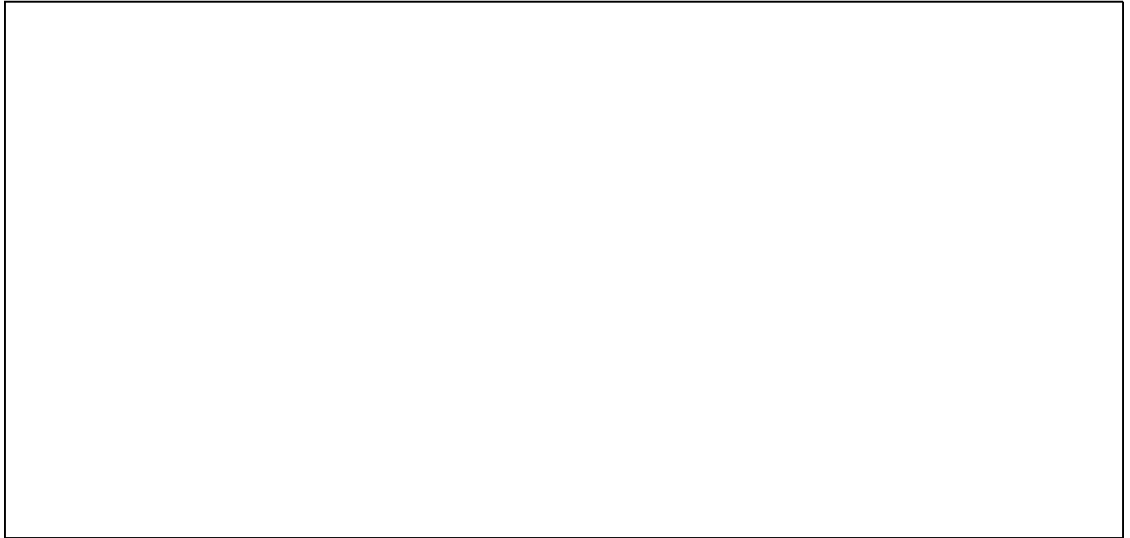
Reference Value = 34.7 V/m; Power Drift = -0.060 dB

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


Peak E-field in V/m

Grid 1 26.9 M4	Grid 2 27.8 M4	Grid 3 27.1 M4
Grid 4 27.4 M4	Grid 5 28.3 M4	Grid 6 27.6 M4
Grid 7 26.5 M4	Grid 8 27.7 M4	Grid 9 27.3 M4

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0 dB = 28.3V/m

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Date/Time: 1/12/2011 2:48:40 PM

Test Laboratory: RIM Testing Services

HAC_E_Dipole_1880MHz_AM80%_WCDMA

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: AM 80%; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm 2/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 22.1 V/m; Power Drift = 0.021 dB

Maximum value of Total (measured) = 18.0 V/m

E Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm 2/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 18.0 V/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

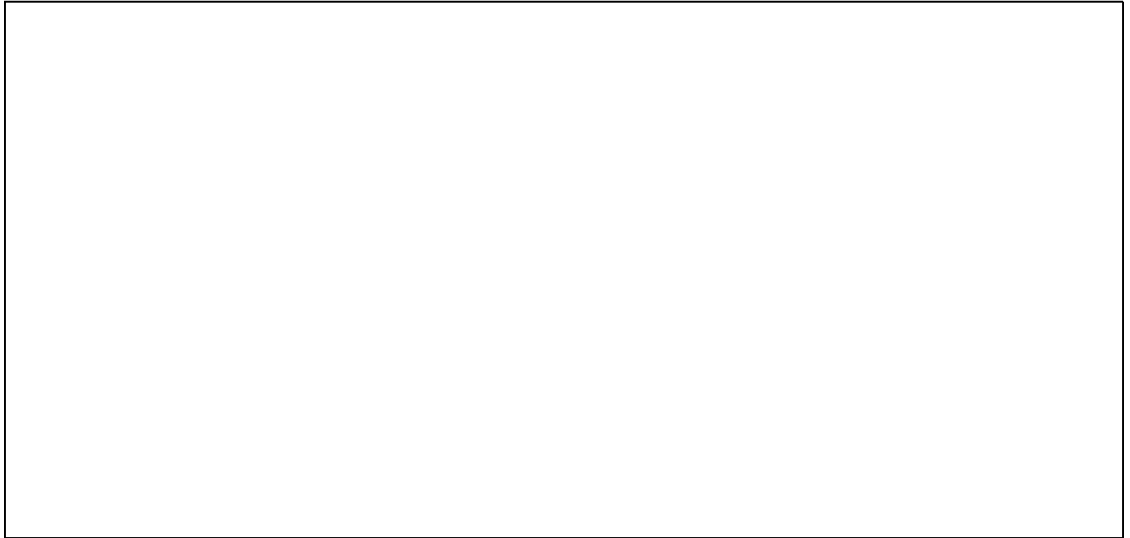
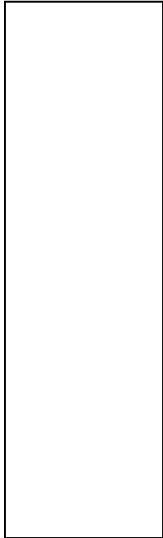
Reference Value = 22.1 V/m; Power Drift = 0.021 dB

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


Peak E-field in V/m

Grid 1 17.0 M4	Grid 2 17.7 M4	Grid 3 17.1 M4
Grid 4 17.3 M4	Grid 5 18.0 M4	Grid 6 17.6 M4
Grid 7 16.8 M4	Grid 8 17.6 M4	Grid 9 17.4 M4

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0 dB = 18.0V/m

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Date/Time: 1/12/2011 3:55:25 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.497 A/m; Power Drift = -0.014 dB

Maximum value of Total (measured) = 0.466 A/m

H Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.467 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

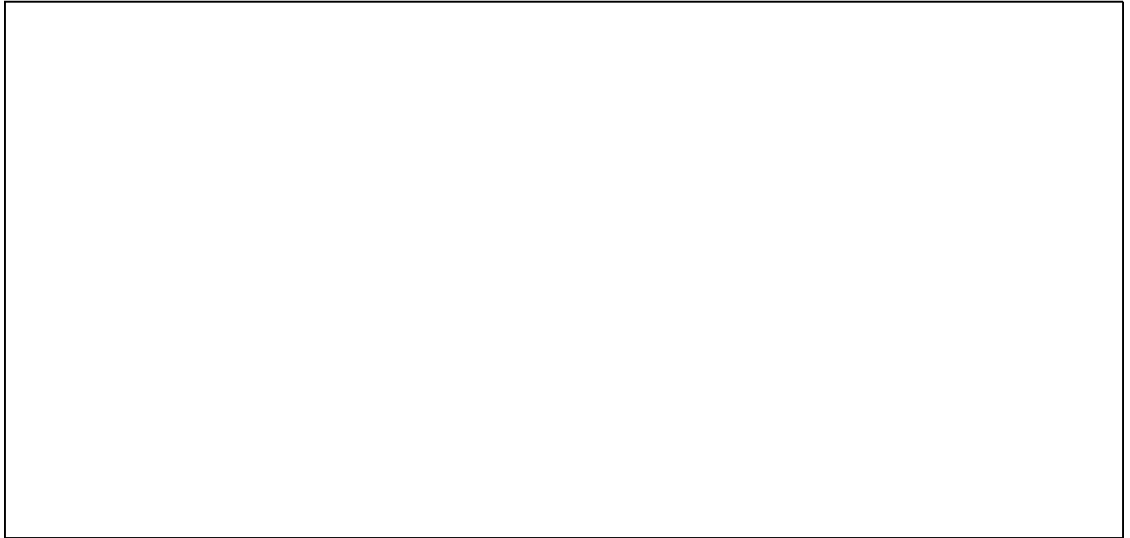
Reference Value = 0.497 A/m; Power Drift = -0.014 dB

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


Peak H-field in A/m

Grid 1 0.437 M4	Grid 2 0.450 M4	Grid 3 0.432 M4
Grid 4 0.450 M4	Grid 5 0.467 M4	Grid 6 0.444 M4
Grid 7 0.450 M4	Grid 8 0.467 M4	Grid 9 0.443 M4

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0 dB = 0.467A/m

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Date/Time: 1/12/2011 4:23:11 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: GSM 850; Frequency: 835 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.162 A/m; Power Drift = -0.057 dB

Maximum value of Total (measured) = 0.153 A/m

H Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.153 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

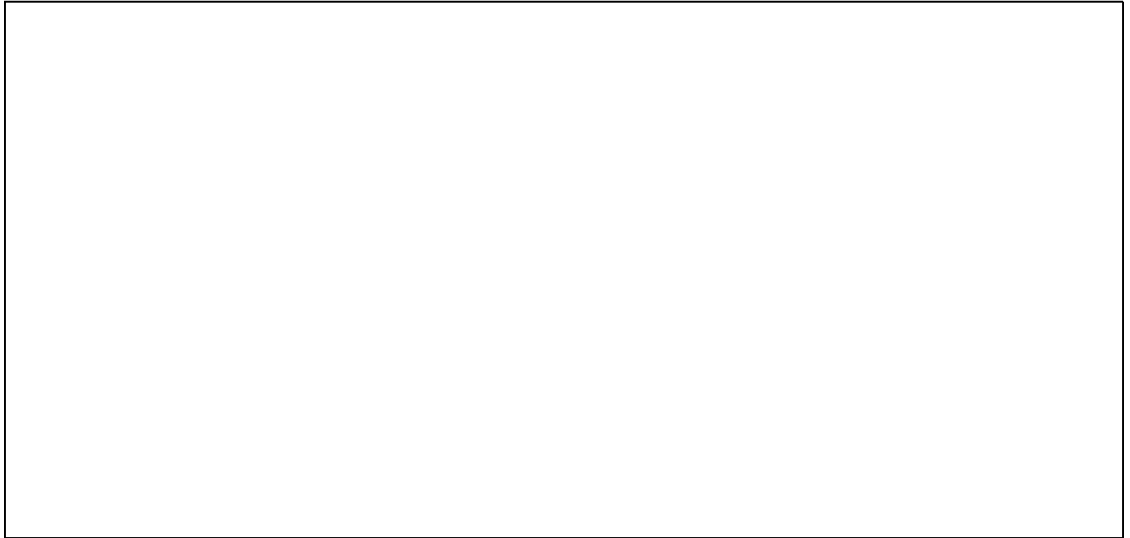
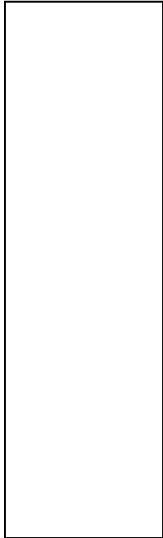
Reference Value = 0.162 A/m; Power Drift = -0.057 dB

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


Peak H-field in A/m

Grid 1 0.139 M4	Grid 2 0.145 M4	Grid 3 0.138 M4
Grid 4 0.145 M4	Grid 5 0.153 M4	Grid 6 0.145 M4
Grid 7 0.145 M4	Grid 8 0.153 M4	Grid 9 0.143 M4

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0 dB = 0.153A/m

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Date/Time: 1/12/2011 4:05:24 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_CW_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1): Measurement grid:


dx=5mm, dy=5mm

Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.466 A/m; Power Drift = -0.033 dB

Maximum value of Total (measured) = 0.439 A/m

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H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (41x81x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.439 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

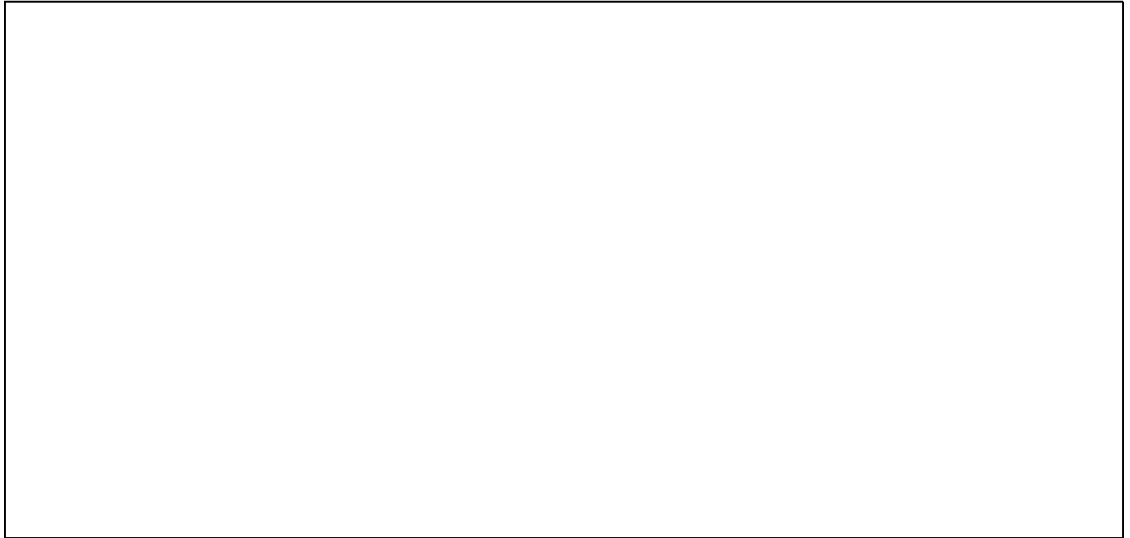
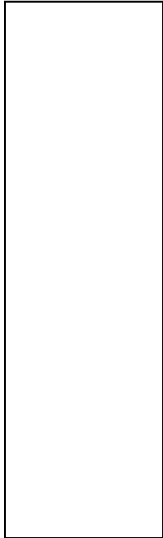
Reference Value = 0.466 A/m; Power Drift = -0.033 dB

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


Peak H-field in A/m

Grid 1 0.412 M4	Grid 2 0.427 M4	Grid 3 0.413 M4
Grid 4 0.423 M4	Grid 5 0.439 M4	Grid 6 0.419 M4
Grid 7 0.423 M4	Grid 8 0.438 M4	Grid 9 0.419 M4

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0 dB = 0.439A/m

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Date/Time: 10/25/2010 5:26:25 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_AM80%_GSM_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3

Communication System: AM 80%

Frequency: 835 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/13/2009
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/4/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, Version 4.7 (80); SEMCAD X Version 14.4.4 (2829)

Configuration/H Scan - measurement distance from the probe sensor center to CD835 Dipole = 10mm/Hearing Aid Compatibility Test (41x121x1):

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


Maximum value of peak Total field = 0.263 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm


Reference Value = 0.280 A/m; Power Drift = -0.07 dB

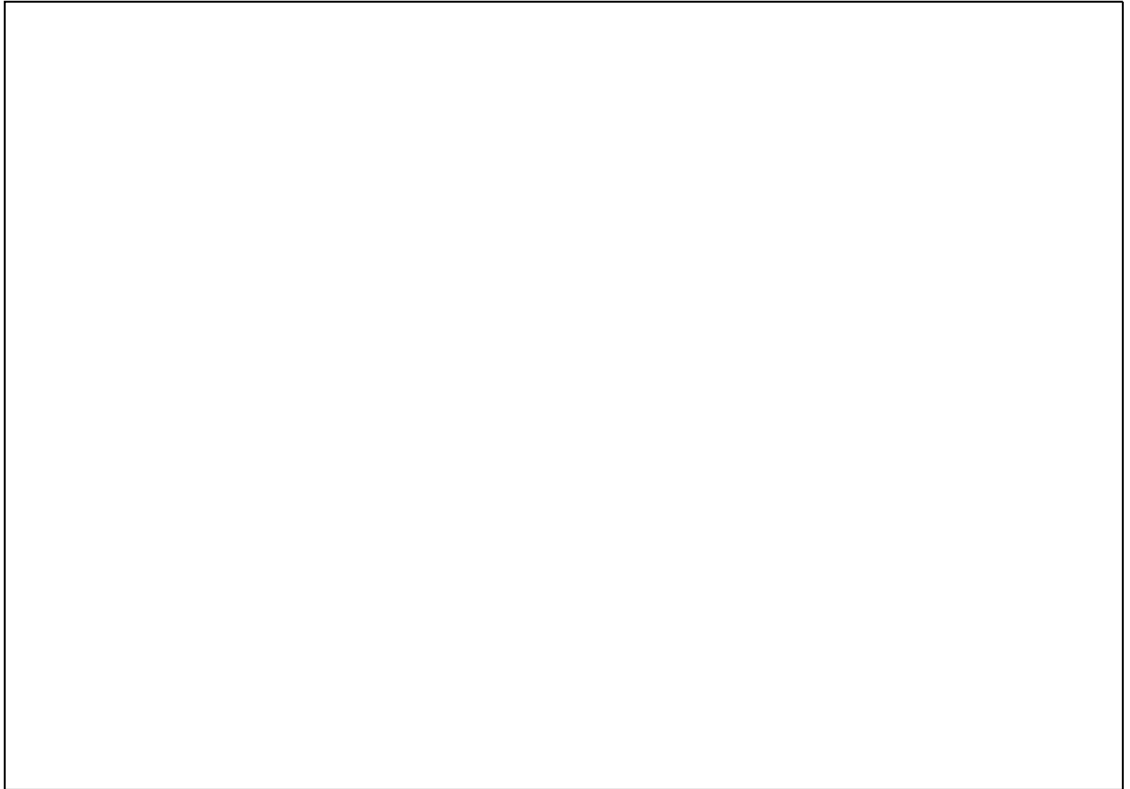
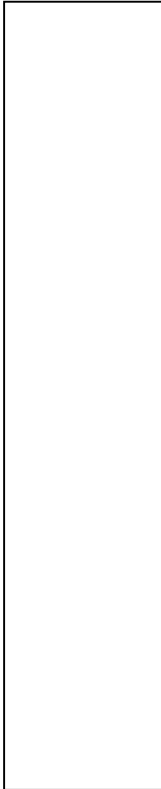
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

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Peak H-field in A/m

Grid 1 0.249 M4	Grid 2 0.256 M4	Grid 3 0.244 M4
Grid 4 0.252 M4	Grid 5 0.263 M4	Grid 6 0.250 M4
Grid 7 0.252 M4	Grid 8 0.262 M4	Grid 9 0.249 M4

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0 dB = 0.260A/m

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Date/Time: 1/12/2011 4:42:42 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_WCDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: WCDMA FDD V; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.157 A/m; Power Drift = -0.007 dB

Maximum value of Total (measured) = 0.149 A/m

H Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.149 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

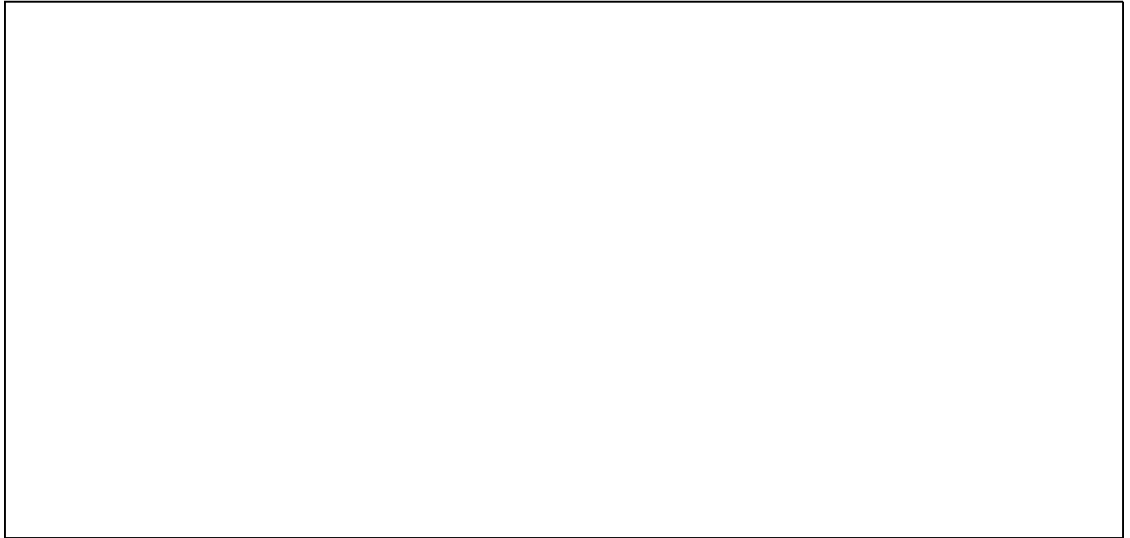
Reference Value = 0.157 A/m; Power Drift = -0.007 dB

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


Peak H-field in A/m

Grid 1 0.138 M4	Grid 2 0.143 M4	Grid 3 0.139 M4
Grid 4 0.144 M4	Grid 5 0.149 M4	Grid 6 0.144 M4
Grid 7 0.144 M4	Grid 8 0.149 M4	Grid 9 0.142 M4

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0 dB = 0.149A/m

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Date/Time: 1/12/2011 4:11:32 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_CW_WCDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.154 A/m; Power Drift = -0.047 dB

Maximum value of Total (measured) = 0.146 A/m

H Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm/Hearing Aid Compatibility Test (41x81x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.146 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

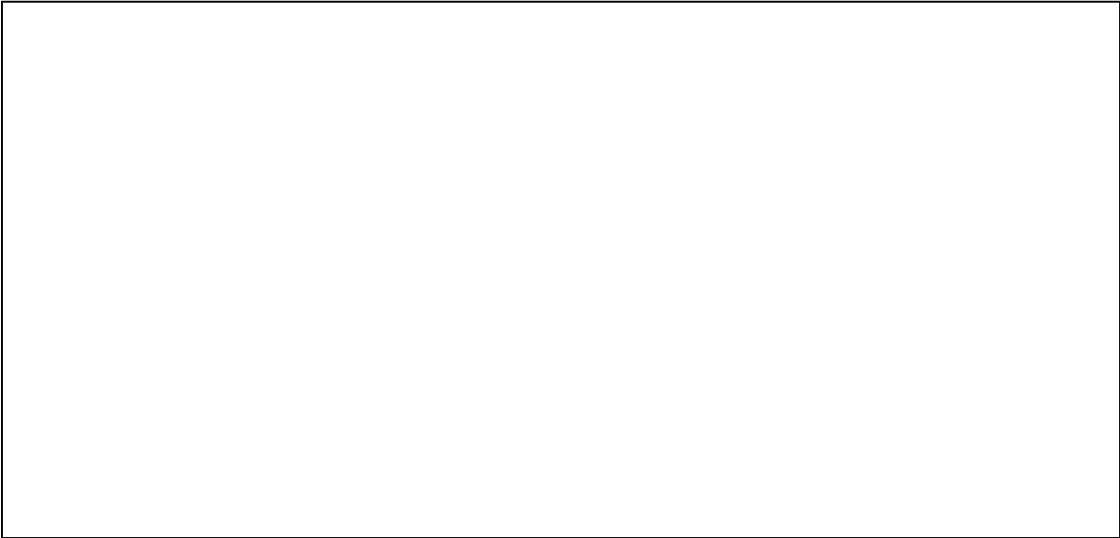
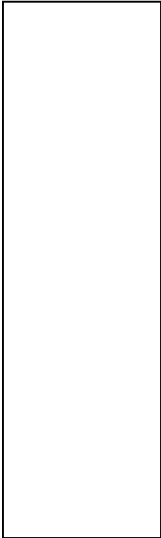
Reference Value = 0.154 A/m; Power Drift = -0.047 dB

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


Peak H-field in A/m

Grid 1 0.137 M4	Grid 2 0.142 M4	Grid 3 0.137 M4
Grid 4 0.141 M4	Grid 5 0.146 M4	Grid 6 0.140 M4
Grid 7 0.142 M4	Grid 8 0.146 M4	Grid 9 0.139 M4

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0 dB = 0.146A/m

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Date/Time: 1/12/2011 4:15:42 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_835MHz_AM80%_WCDMA_mod

DUT: HAC-Dipole 835 MHz; Type: D835V3;

Communication System: AM 80%; Frequency: 835 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD835

Dipole = 10mm/Hearing Aid Compatibility Test (5x9x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.099 A/m; Power Drift = -0.003 dB

Maximum value of Total (measured) = 0.093 A/m

H Scan - measurement distance from the probe sensor center to CD835

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Dipole = 10mm/Hearing Aid Compatibility Test (41x81x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.094 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

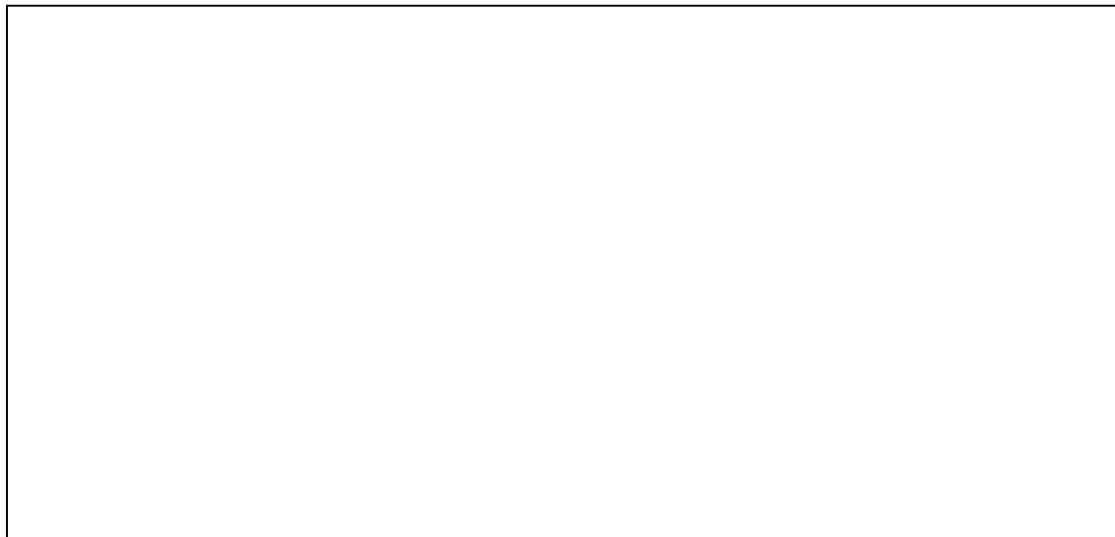
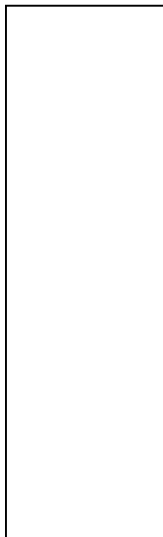
Reference Value = 0.099 A/m; Power Drift = -0.003 dB

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


Peak H-field in A/m

Grid 1 0.088 M4	Grid 2 0.091 M4	Grid 3 0.088 M4
Grid 4 0.090 M4	Grid 5 0.093 M4	Grid 6 0.089 M4
Grid 7 0.090 M4	Grid 8 0.094 M4	Grid 9 0.089 M4

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/ REN71UW		79 (342)
Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW



0 dB = 0.094A/m

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/ REN71UW		80 (342)
Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/13/2011 2:49:30 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x11x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.478 A/m; Power Drift = 0.007 dB

Maximum value of Total (measured) = 0.449 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Dipole = 10mm/Hearing Aid Compatibility Test (41x101x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.450 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

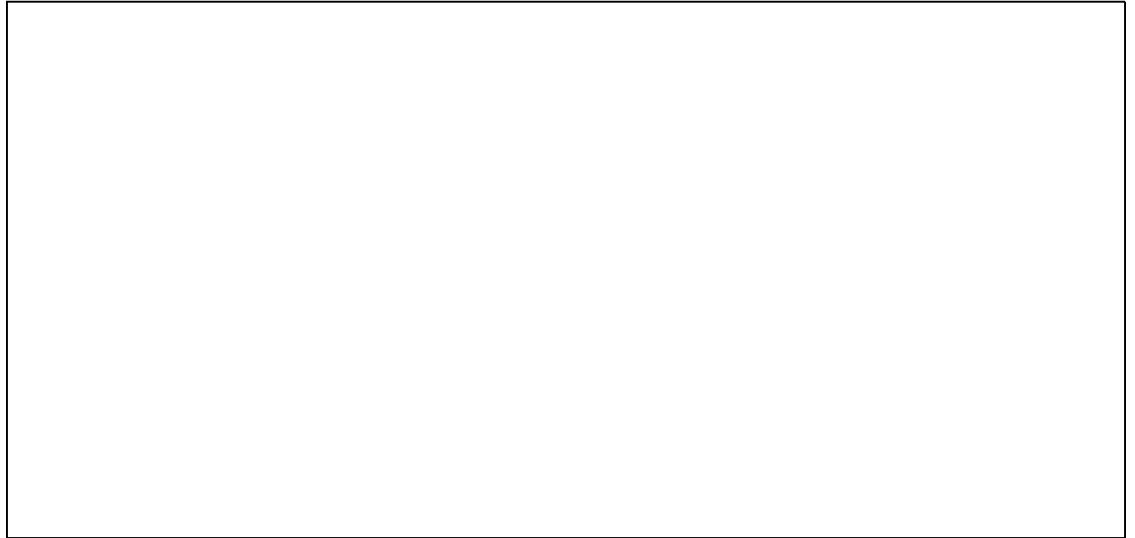
Reference Value = 0.478 A/m; Power Drift = 0.007 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)


Peak H-field in A/m

Grid 1 0.416 M2	Grid 2 0.432 M2	Grid 3 0.413 M2
Grid 4 0.433 M2	Grid 5 0.450 M2	Grid 6 0.430 M2
Grid 7 0.425 M2	Grid 8 0.444 M2	Grid 9 0.422 M2

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0 dB = 0.450A/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/12/2011 3:23:31 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

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: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.091 A/m; Power Drift = 0.116 dB

Maximum value of Total (measured) = 0.085 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Dipole = 10mm/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.086 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

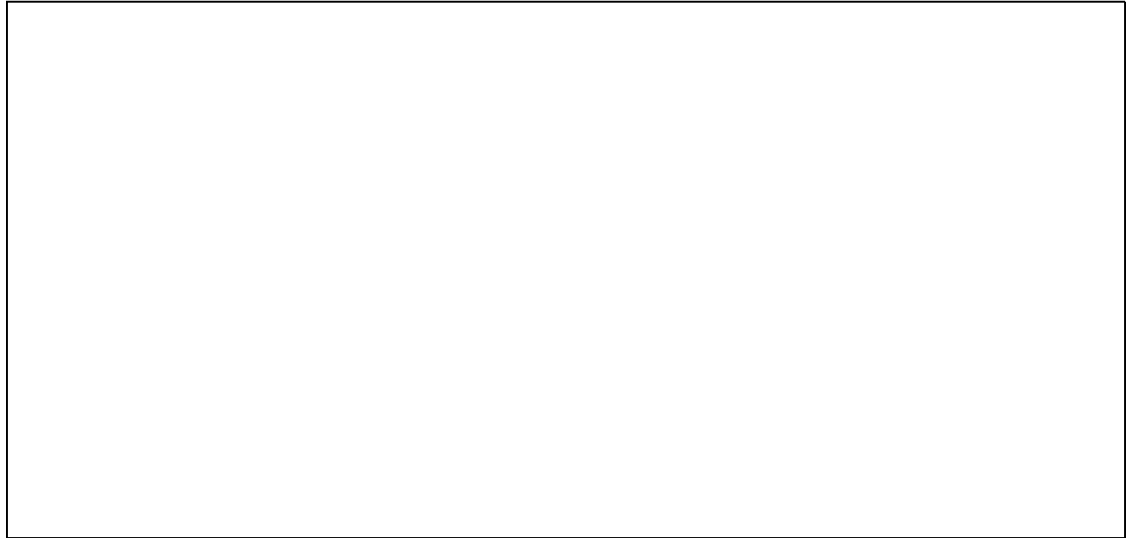
Reference Value = 0.091 A/m; Power Drift = 0.116 dB

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


Peak H-field in A/m

Grid 1 0.081 M4	Grid 2 0.085 M4	Grid 3 0.081 M4
Grid 4 0.082 M4	Grid 5 0.086 M4	Grid 6 0.082 M4
Grid 7 0.082 M4	Grid 8 0.086 M4	Grid 9 0.082 M4

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0 dB = 0.086A/m

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Date/Time: 1/12/2011 3:32:55 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_CW_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.250 A/m; Power Drift = 0.055 dB

Maximum value of Total (measured) = 0.236 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.237 A/m


Probe Modulation Factor = 1.00

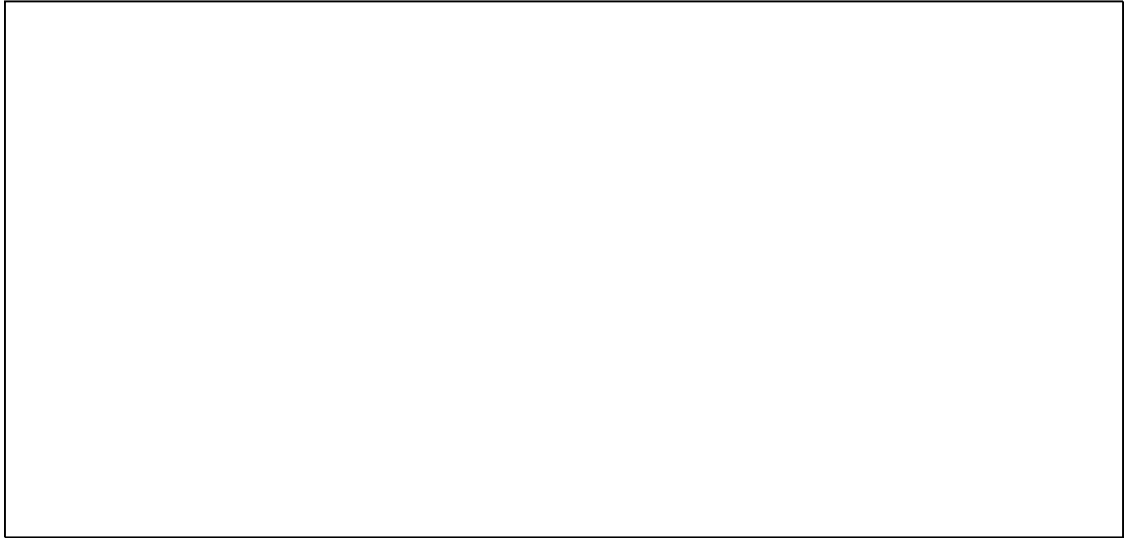
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.250 A/m; Power Drift = 0.055 dB


Hearing Aid Near-Field Category: M3 (AWF 0 dB)

Peak H-field in A/m		
Grid 1	Grid 2	Grid 3
0.227 M3	0.235 M3	0.228 M3
Grid 4	Grid 5	Grid 6
0.229 M3	0.237 M3	0.230 M3
Grid 7	Grid 8	Grid 9
0.229 M3	0.237 M3	0.229 M3

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0 dB = 0.237A/m

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Date/Time: 1/12/2011 3:36:08 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_AM80%_GSM_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: AM 80%; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.163 A/m; Power Drift = -0.022 dB

Maximum value of Total (measured) = 0.153 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.154 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

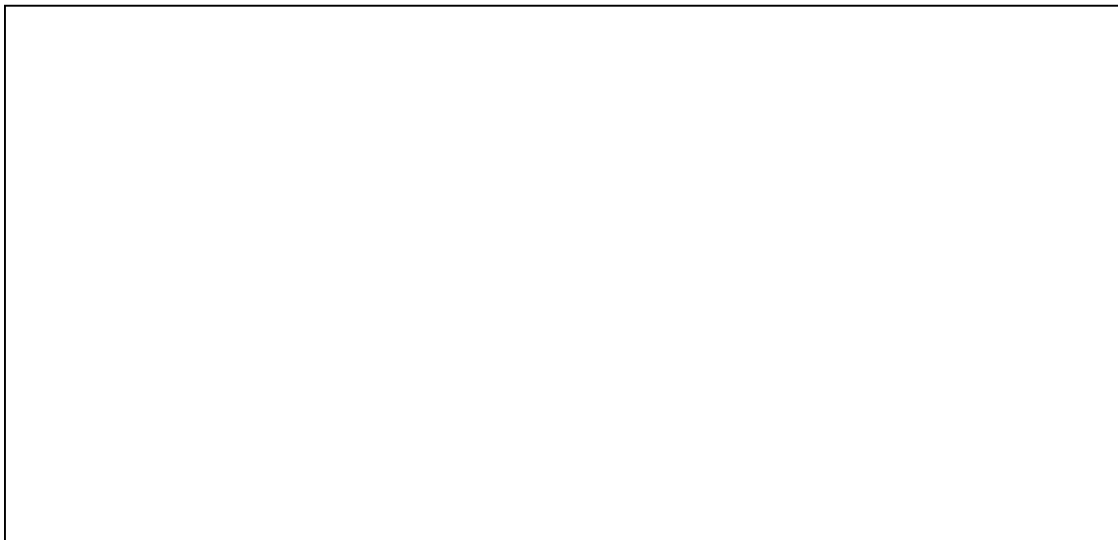
Reference Value = 0.163 A/m; Power Drift = -0.022 dB

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


Peak H-field in A/m

Grid 1 0.148 M4	Grid 2 0.152 M4	Grid 3 0.147 M4
Grid 4 0.150 M4	Grid 5 0.154 M4	Grid 6 0.148 M4
Grid 7 0.150 M4	Grid 8 0.154 M4	Grid 9 0.148 M4

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0 dB = 0.154A/m

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Date/Time: 1/12/2011 3:20:17 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_WCDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.139 A/m; Power Drift = -0.064 dB

Maximum value of Total (measured) = 0.130 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.131 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

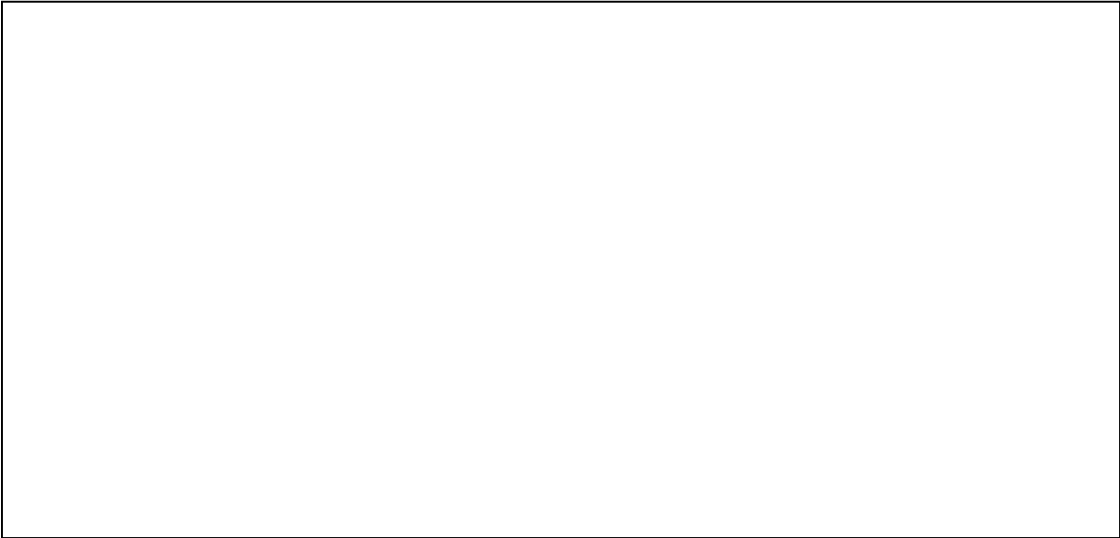
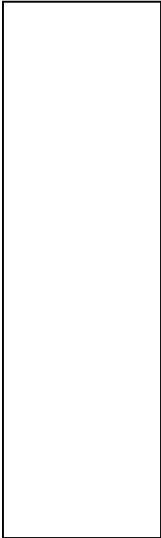
Reference Value = 0.139 A/m; Power Drift = -0.064 dB

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


Peak H-field in A/m

Grid 1 0.124 M4	Grid 2 0.129 M4	Grid 3 0.125 M4
Grid 4 0.126 M4	Grid 5 0.131 M4	Grid 6 0.126 M4
Grid 7 0.126 M4	Grid 8 0.131 M4	Grid 9 0.126 M4

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0 dB = 0.131A/m

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Date/Time: 1/12/2011 3:41:59 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_CW_WCDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.121 A/m; Power Drift = 0.104 dB

Maximum value of Total (measured) = 0.115 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.116 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

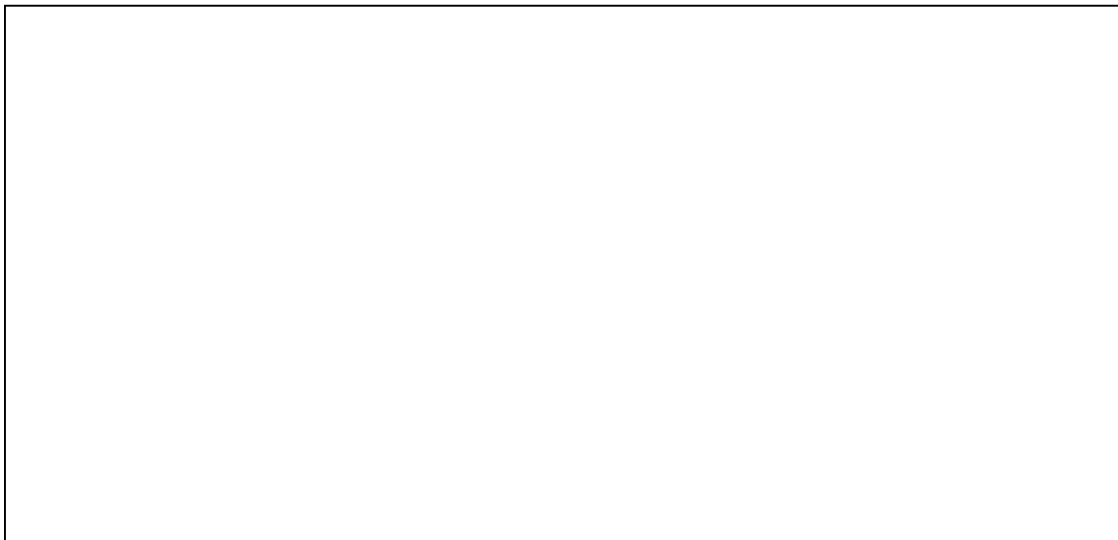
Reference Value = 0.121 A/m; Power Drift = 0.104 dB

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


Peak H-field in A/m

Grid 1 0.111 M4	Grid 2 0.115 M4	Grid 3 0.112 M4
Grid 4 0.113 M4	Grid 5 0.116 M4	Grid 6 0.112 M4
Grid 7 0.113 M4	Grid 8 0.116 M4	Grid 9 0.112 M4

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0 dB = 0.116A/m

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Date/Time: 1/12/2011 3:38:32 PM

Test Laboratory: RIM Testing Services

HAC_H_Dipole_1880MHz_AM80%_WCDMA_mod

DUT: HAC Dipole 1880 MHz; Type: CD1880V3;

Communication System: AM 80%; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - measurement distance from the probe sensor center to CD1880

Dipole = 10mm/Hearing Aid Compatibility Test (5x5x1): Measurement grid:

dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.080 A/m; Power Drift = 0.010 dB

Maximum value of Total (measured) = 0.075 A/m

H Scan - measurement distance from the probe sensor center to CD1880

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Dipole = 10mm/Hearing Aid Compatibility Test (41x41x1): Measurement grid:

dx=5mm, dy=5mm

Maximum value of peak Total field = 0.075 A/m

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

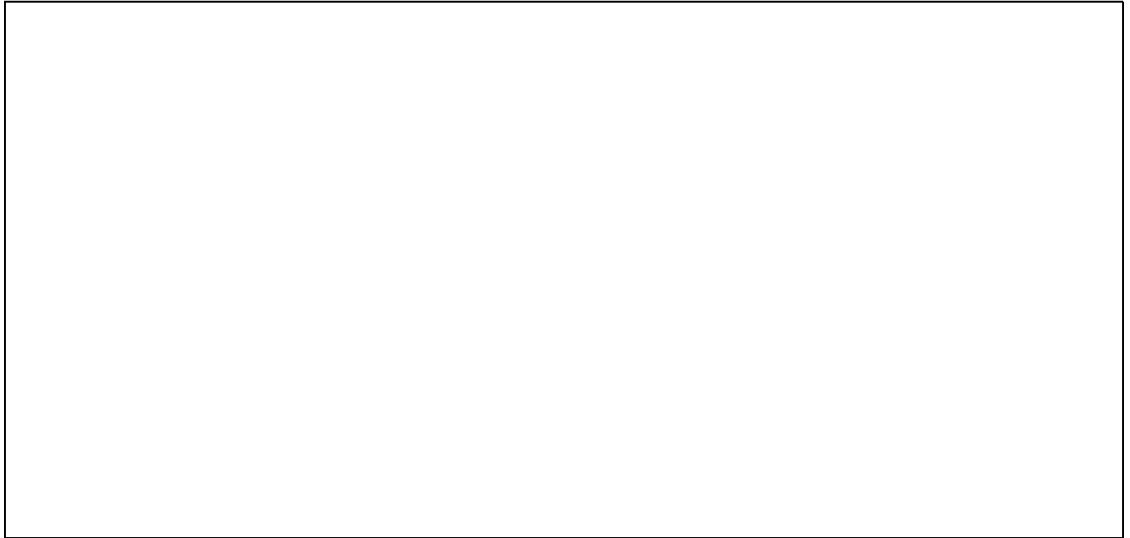
Reference Value = 0.080 A/m; Power Drift = 0.010 dB

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


Peak H-field in A/m

Grid 1 0.072 M4	Grid 2 0.074 M4	Grid 3 0.072 M4
Grid 4 0.073 M4	Grid 5 0.075 M4	Grid 6 0.073 M4
Grid 7 0.073 M4	Grid 8 0.075 M4	Grid 9 0.072 M4

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0 dB = 0.075A/m

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Date/Time: 4/5/2011 3:15:31 PM, Date/Time: 4/5/2011 3:35:37 PM, Date/Time:
4/5/2011 3:50:05 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_1733 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD IV, Communication System: CW,
Communication System: AM80%; Communication System Band: 1733; Frequency:
1732.6 MHz, Frequency: 1733 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASYS (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


**Dipole E-Field measurement/E Scan - measurement distance from the
probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility**

Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 45.953 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 45.671 V/m; Power Drift = 0.0022 dB

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

Peak E-field in V/m

Grid 1 44.309 M4	Grid 2 45.897 M4	Grid 3 43.942 M4
Grid 4 32.194 M4	Grid 5 33.381 M4	Grid 6 32.650 M4
Grid 7 45.541 M4	Grid 8 45.953 M4	Grid 9 44.163 M4

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 44.684 V/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 44.777 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 42.576 M4	Grid 2 44.154 M4	Grid 3 42.558 M4
Grid 4 31.220 M4	Grid 5 32.494 M4	Grid 6 31.749 M4
Grid 7 44.140 M4	Grid 8 44.684 M4	Grid 9 42.994 M4

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Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2 2/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 28.697 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 28.666 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 27.579 M4	Grid 2 28.576 M4	Grid 3 27.503 M4
Grid 4 20.034 M4	Grid 5 20.866 M4	Grid 6 20.402 M4
Grid 7 28.387 M4	Grid 8 28.697 M4	Grid 9 27.712 M4

Author Data

Andrew Becker

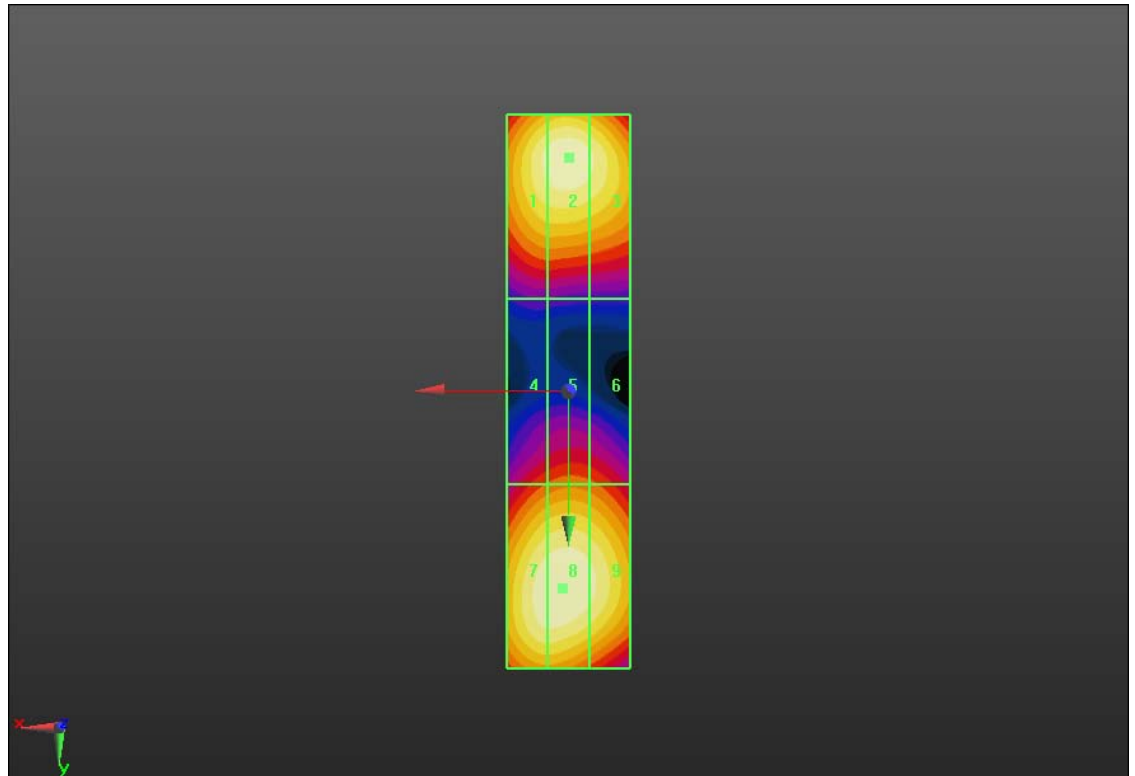
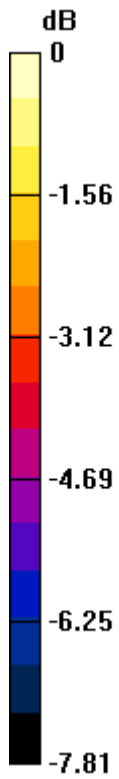
Dates of Test

**Jan. 12-13, Apr 5, July
13, 2011**


Report No

RTS-3640-1102-01B

FCC ID

**L6ARDM70UW
L6AREN70UW**


0 dB = 45.950V/m

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Date/Time: 7/11/2011 11:41:33 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

Dipole E-Field measurement/E Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 132.4 V/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 122.0 V/m; Power Drift = -0.01 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)

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Peak E-field in V/m

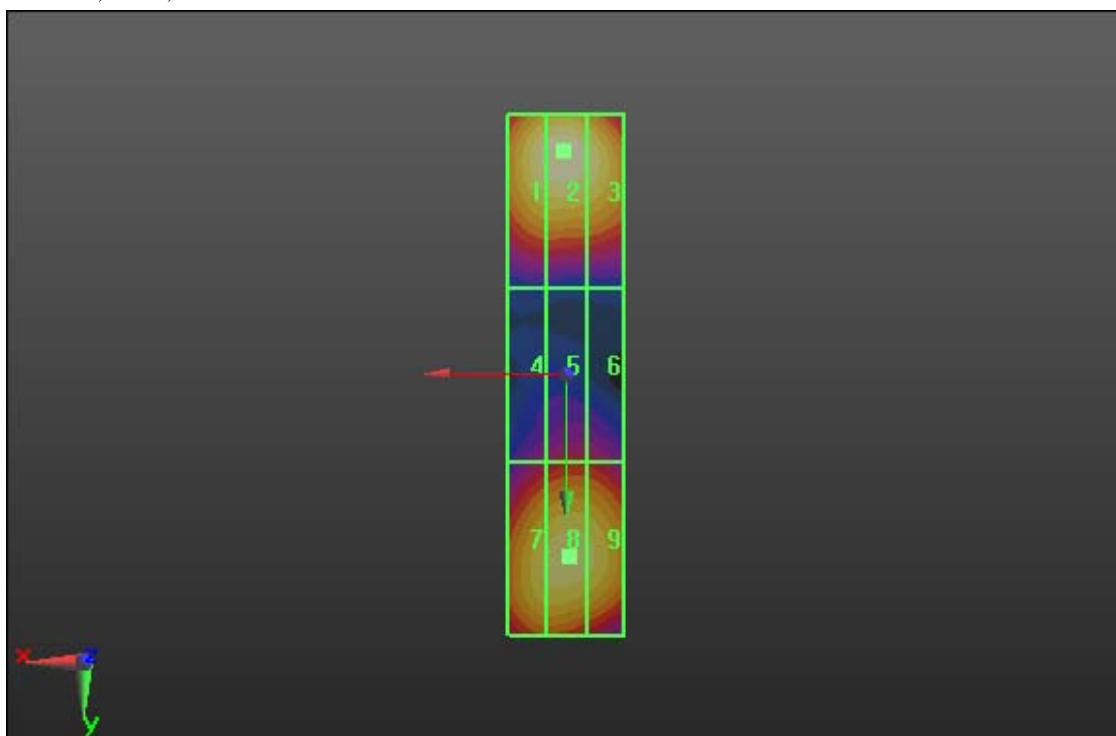
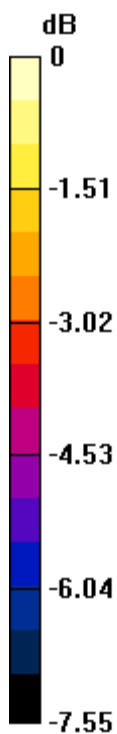
Grid 1 128.6 M2	Grid 2 132.4 M2	Grid 3 125.9 M2
Grid 4 82.565 M3	Grid 5 87.292 M3	Grid 6 86.553 M3
Grid 7 119.4 M2	Grid 8 122.5 M2	Grid 9 120.6 M2

Cursor:


Total = 132.4 V/m

E Category: M2

Location: 0.5, -38.5, 4.7 mm



0 dB = 132.4V/m

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Date/Time: 4/5/2011 4:22:30 PM, Date/Time: 4/5/2011 4:37:10 PM, Date/Time:
4/5/2011 4:40:56 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_1733 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: WCDMA FDD IV, Communication System: CW,
Communication System: AM80%; Communication System Band: D1800 (1800.0 MHz);
Frequency: 1732.6 MHz, Frequency: 1733 MHz; Communication System PAR: 0 dB
Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 0$ kg/m³
Phantom section: RF Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn473; Calibrated: 1/21/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)


**Dipole H-Field with H3DV6 probe/H Scan - measurement distance from the
probe sensor center to CD1880 Dipole = 10mm/Hearing Aid Compatibility**

Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.165 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.175 A/m; Power Drift = -0.0064 dB

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

Peak H-field in A/m

Grid 1 0.148 M4	Grid 2 0.156 M4	Grid 3 0.151 M4
Grid 4 0.156 M4	Grid 5 0.165 M4	Grid 6 0.159 M4
Grid 7 0.151 M4	Grid 8 0.160 M4	Grid 9 0.153 M4

Dipole H-Field with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.160 A/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.172 A/m; Power Drift = -0.08 dB

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

Peak H-field in A/m

Grid 1 0.144 M4	Grid 2 0.151 M4	Grid 3 0.147 M4
Grid 4 0.152 M4	Grid 5 0.160 M4	Grid 6 0.155 M4
Grid 7 0.148 M4	Grid 8 0.156 M4	Grid 9 0.149 M4

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Dipole H-Field with H3DV6 probe/H Scan - measurement distance from the probe sensor center to CD1880 Dipole = 10mm 2

2/Hearing Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.102 A/m

Probe Modulation Factor = 1.000


Device Reference Point: 0, 0, -6.3 mm

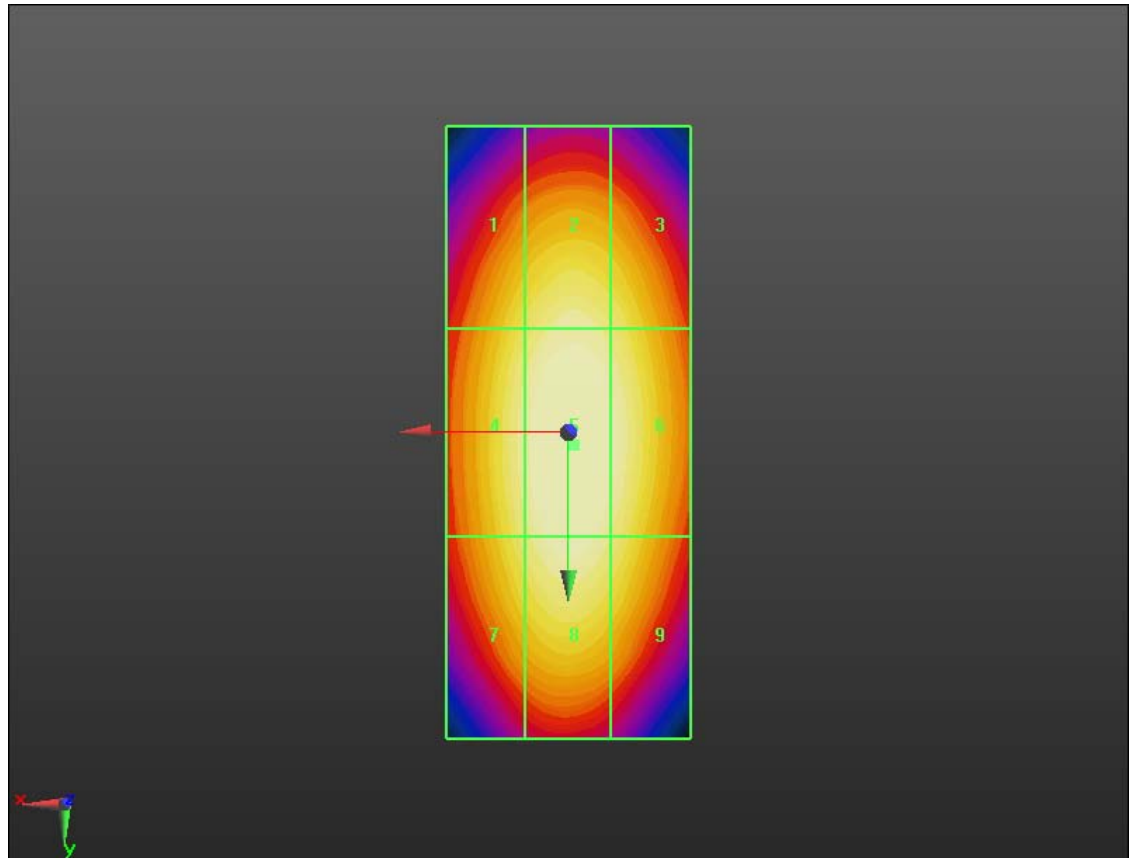
Reference Value = 0.110 A/m; Power Drift = -0.04 dB

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


Peak H-field in A/m

Grid 1 0.091 M4	Grid 2 0.097 M4	Grid 3 0.093 M4
Grid 4 0.096 M4	Grid 5 0.102 M4	Grid 6 0.098 M4
Grid 7 0.093 M4	Grid 8 0.099 M4	Grid 9 0.094 M4

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0 dB = 0.160A/m

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Date/Time: 7/11/2011 2:34:34 PM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_validation_1880 MHz

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Communication System Band: D1900 (1900.0 MHz);

Frequency: 1880 MHz; Communication System PAR: 0 dB

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY52, Version 52.6 (2); SEMCAD X Version 14.4.4 (2829)

**Dipole H-Field measurement with H3DV6 probe/H Scan - measurement
distance from the probe sensor center to CD1880 Dipole = 10mm/Hearing
Aid Compatibility Test (41x101x1): Measurement grid: dx=5mm, dy=5mm**


Maximum value of peak Total field = 0.461 A/m

Probe Modulation Factor = 1.000

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.490 A/m; Power Drift = 0.02 dB

Hearing Aid Near-Field Category: M2 (AWF 0 dB)


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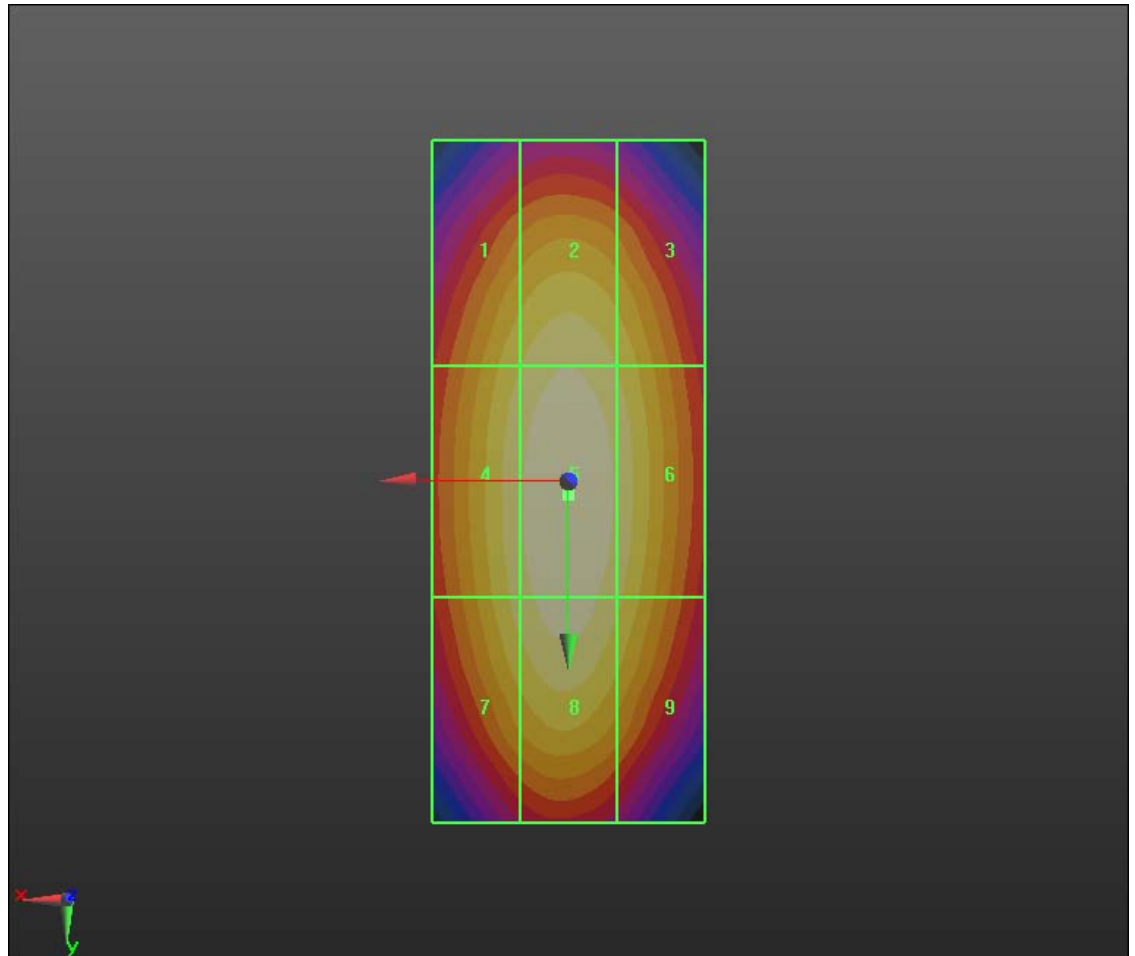
Peak H-field in A/m

Grid 1 0.423 M2	Grid 2 0.441 M2	Grid 3 0.423 M2
Grid 4 0.439 M2	Grid 5 0.461 M2	Grid 6 0.439 M2
Grid 7 0.432 M2	Grid 8 0.453 M2	Grid 9 0.428 M2


Cursor:

Total = 0.461 A/m
H Category: M2
Location: 0, 1, 4.7 mm

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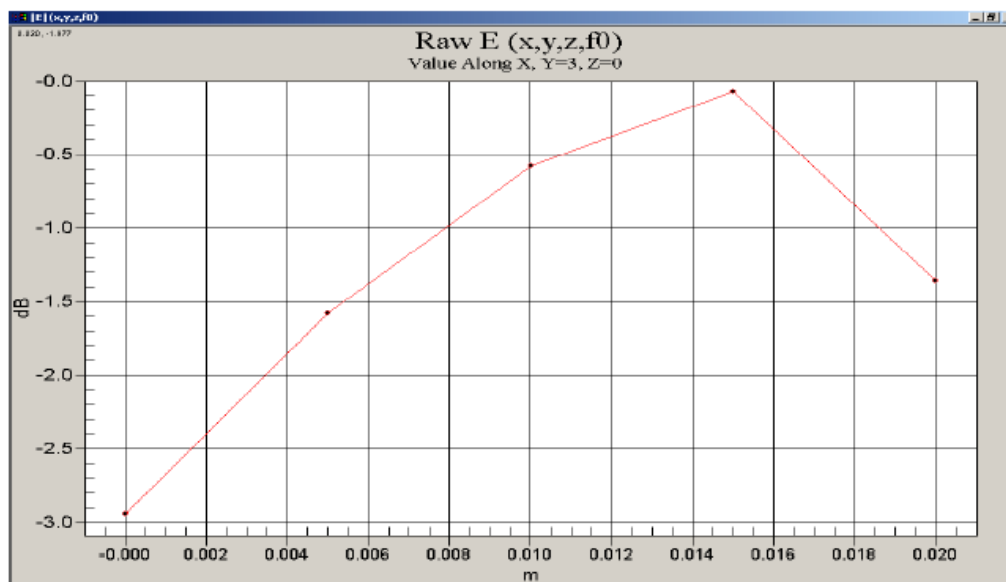


0 dB = 0.460A/m

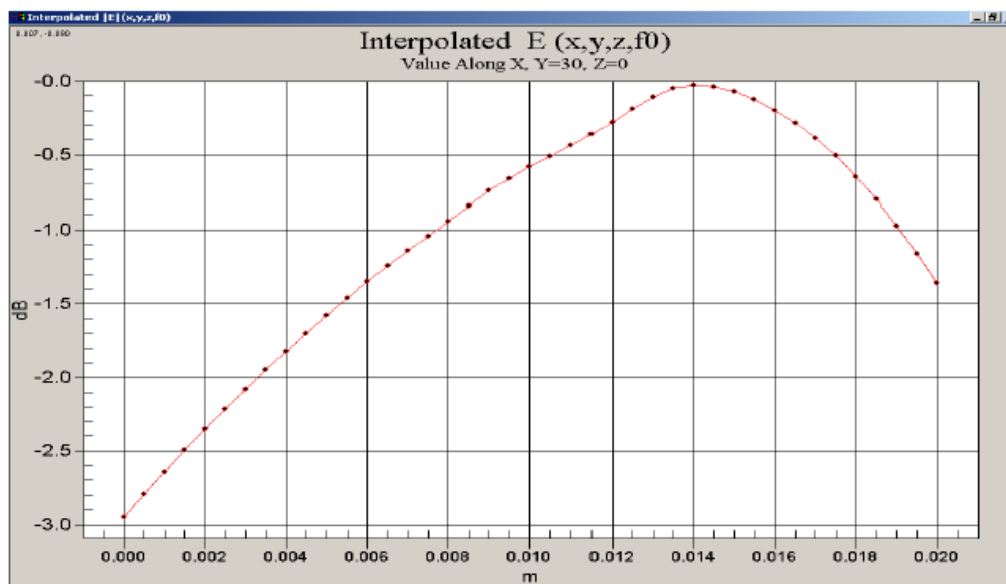
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Justification of Step Size and Interpolation


This section demonstrates that a 5mm step size with interpolation provides sufficient resolution for RF emissions measurements. The DASY 4 uses interpolation algorithms to derive 9 interpolated points between every measured point.

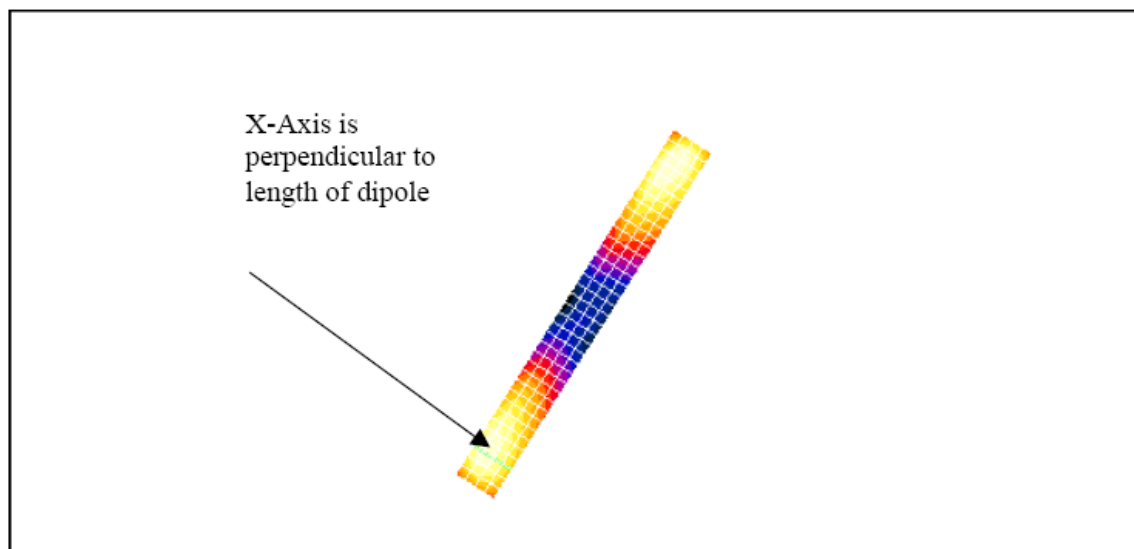


The figure above shows the raw measured field strength perpendicular to the length of the validation dipole. The TCB guidance slides require the 3dB width to be much larger than the step size. The width between -3dB points is > 21mm, at least 4 times the step size.



This figure shows the interpolated field strength perpendicular to the dipole. The interpolated points follow the raw points with no inconsistencies.


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The green line in this figure shows the axis along which the points lie.

Comparison of 5mm and 2mm step sizes

An additional set of measurements was taken: dipole validations were performed using 5mm and 2mm step sizes. The delta between the two readings is insignificant for both field types (< 0.4% for E and 0% for H), demonstrating that 5mm is sufficient. The plots follow.

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Date/Time: 14/07/2005 11:35:24 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:
- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

Measurement grid: dx=5mm, dy=5mm
Maximum value of Total (measured) = 134.8 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):


Measurement grid: dx=5mm, dy=5mm
Maximum value of Total field (slot averaged) = 131.0 V/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.2	138.1	138.4	123.2	138.1	138.4
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
80.9	92.3	92.2	80.9	92.3	92.2
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
119.8	131.0	130.7	119.8	131.0	130.7

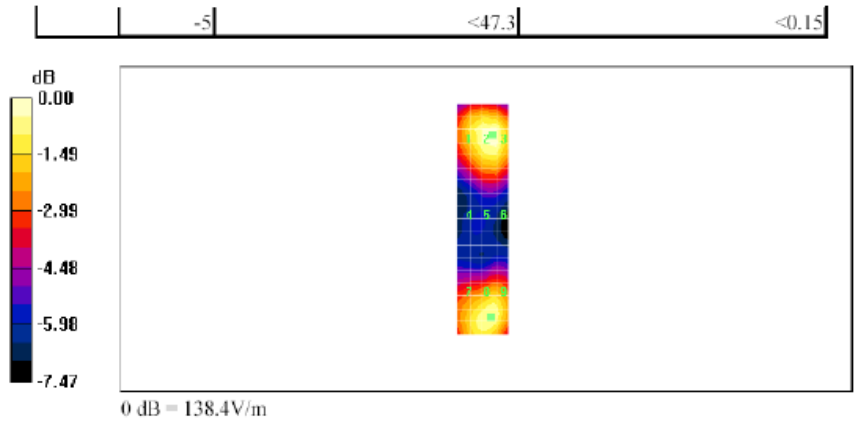
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Date/Time: 14/07/2005 11:44:51 AM

Lab: RIM Testing Services (RTS)

Dipole Validation 1880 MHz_2mm step_E-Field 07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
Phantom section: H Device Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total (measured) = 138.0 V/m

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total field (slot averaged) = 131.2 V/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

E in V/m (Time averaged) E in V/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
123.1	138.6	138.6	123.1	138.6	138.6
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
81.4	92.1	91.6	81.4	92.1	91.6
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
121.3	131.2	131.0	121.3	131.2	131.0

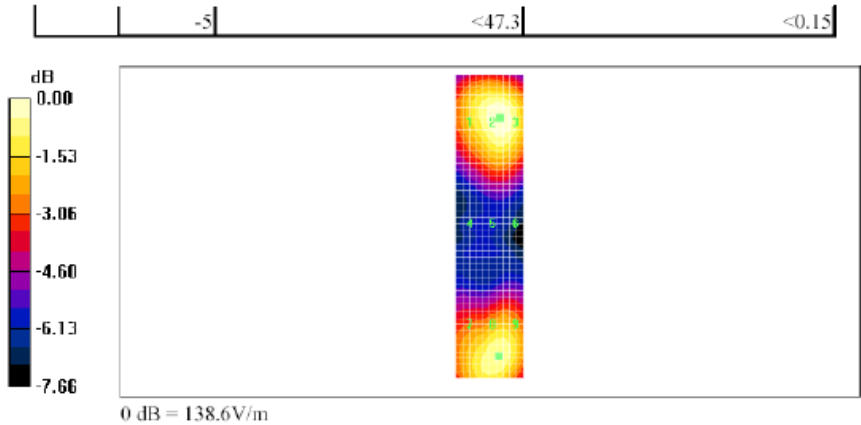
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Date/Time: 14/07/2005 12:43:02 PM

Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_5 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: H Dipole Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (5x19x1):

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

Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1):

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

Maximum value of Total field (slot averaged) = 0.406 A/m


Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.342	0.359	0.344	0.342	0.359	0.344
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.389	0.406	0.389	0.389	0.406	0.389
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.363	0.378	0.363	0.363	0.378	0.363

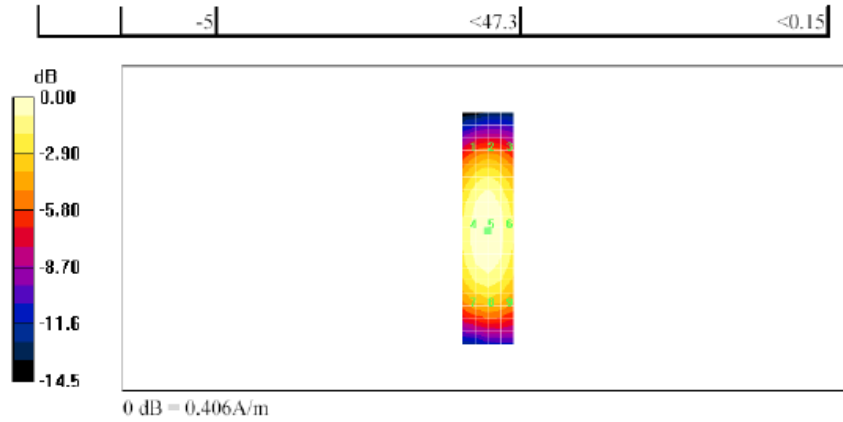
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

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Date/Time: 14/07/2005 12:53:40 PM

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Lab: RIM Testing Services (RTS)

HAC_H_Dipole_CW 1880_2 mm step_07_14_05

DUT: HAC Dipole 1880 MHz; Type: CD1880V3

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: Air Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
Phantom section: H Dipole Section

DASY4 Configuration:
- Probe: H3DV6 - SN6105; ; Calibrated: 10/12/2004
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 03/01/2005
- Phantom: HAC Test Arch; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.5 Build 19; Postprocessing SW: SEMCAD, V1.8 Build 146

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (11x46x1):

Measurement grid: dx=2mm, dy=2mm
Maximum value of Total (measured) = 0.406 A/m

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (101x451x1):


Measurement grid: dx=2mm, dy=2mm
Maximum value of Total field (slot averaged) = 0.406 A/m
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

H in A/m (Time averaged) H in A/m (Slot averaged)

Grid 1	Grid 2	Grid 3	Grid 1	Grid 2	Grid 3
0.347	0.361	0.348	0.347	0.361	0.348
Grid 4	Grid 5	Grid 6	Grid 4	Grid 5	Grid 6
0.394	0.406	0.391	0.394	0.406	0.391
Grid 7	Grid 8	Grid 9	Grid 7	Grid 8	Grid 9
0.367	0.380	0.365	0.367	0.380	0.365

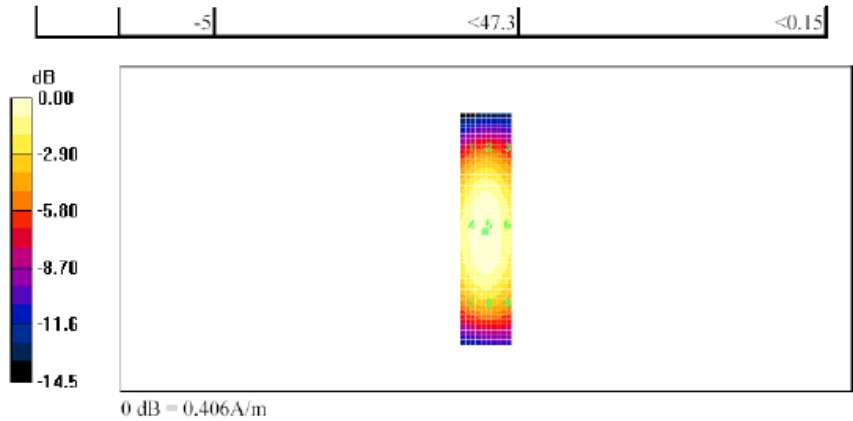
Category	AWF (dB)	Limits for E-Field Emissions (V/m)	Limits for H-Field Emissions (A/m)
M1	0	199.5 - 354.8	0.6 - 1.07
	-5	149.6 - 266.1	0.45 - 0.8
M2	0	112.2 - 199.5	0.34 - 0.6
	-5	84.1 - 149.6	0.25 - 0.45
M3	0	63.1 - 112.2	0.19 - 0.34
	-5	47.3 - 84.1	0.15 - 0.25
M4	0	<63.1	<0.19

file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_2%... 14/07/2005


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Date/Time: 14/07/2005 12:53:40 PM


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file://C:\Program%20Files\DASY4\Print_Templates\HAC_H_Dipole_CW%201880_2%... 14/07/2005

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A.3 RF emissions plots

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Date/Time: 1/13/2011 3:24:09 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM850_low_chan

DUT: BlackBerry Smartphone

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: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 60.9 V/m; Power Drift = -0.144 dB

Maximum value of Total (measured) = 49.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

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Maximum value of peak Total field = 150.2 V/m

Probe Modulation Factor = 3.00


Device Reference Point: 0.000, 0.000, -6.30 mm

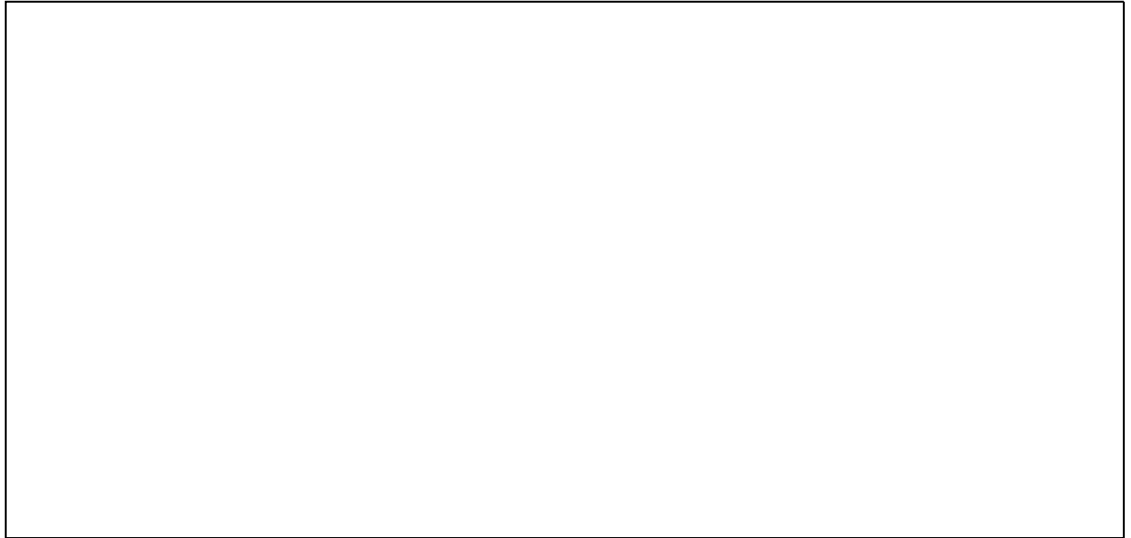
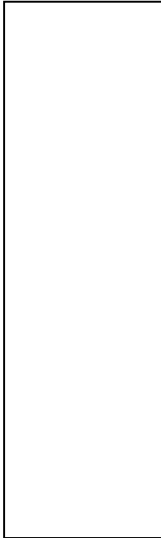
Reference Value = 60.9 V/m; Power Drift = -0.144 dB

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


Peak E-field in V/m

Grid 1 129.6 M4	Grid 2 146.3 M4	Grid 3 146.2 M4
Grid 4 133.0 M4	Grid 5 150.2 M3	Grid 6 150.2 M3
Grid 7 132.2 M4	Grid 8 148.4 M4	Grid 9 148.4 M4

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0 dB = 150.2V/m

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Date/Time: 1/13/2011 3:30:17 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM850_mid_chan

DUT: BlackBerry Smartphone

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

Measurement Standard: DAS4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DAS4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 71.3 V/m; Power Drift = 0.066 dB

Maximum value of Total (measured) = 61.1 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

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Maximum value of peak Total field = 184.0 V/m

Probe Modulation Factor = 3.00


Device Reference Point: 0.000, 0.000, -6.30 mm

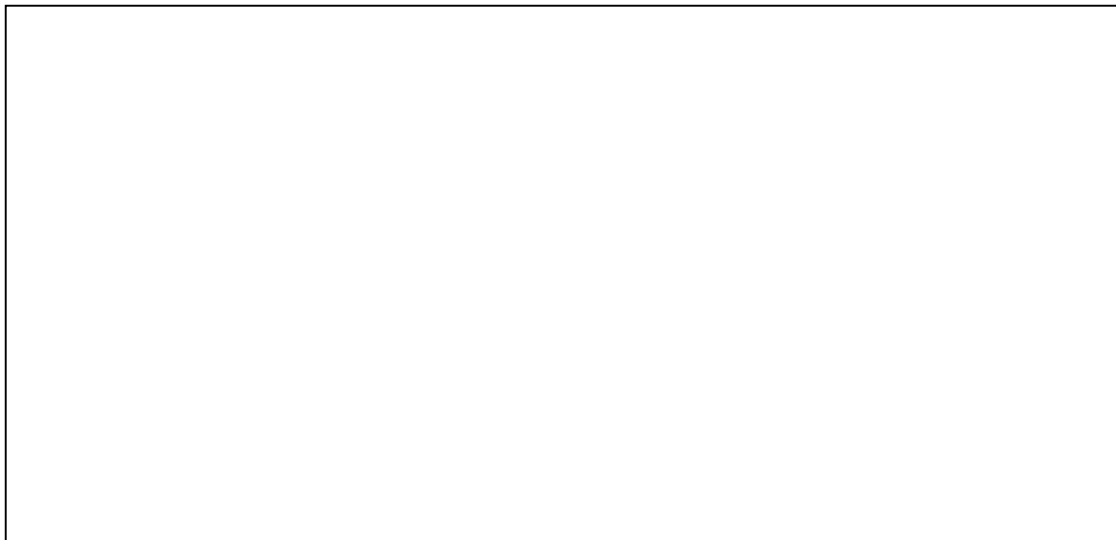
Reference Value = 71.3 V/m; Power Drift = 0.066 dB

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


Peak E-field in V/m

Grid 1 149.8 M3	Grid 2 178.1 M3	Grid 3 177.9 M3
Grid 4 153.3 M3	Grid 5 184.0 M3	Grid 6 184.0 M3
Grid 7 155.1 M3	Grid 8 183.5 M3	Grid 9 183.5 M3

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0 dB = 184.0V/m

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Date/Time: 1/13/2011 3:41:04 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM850_high_chan

DUT: BlackBerry Smartphone

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: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 77.0 V/m; Power Drift = -0.133 dB

Maximum value of Total (measured) = 64.8 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

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Maximum value of peak Total field = 195.1 V/m

Probe Modulation Factor = 3.00


Device Reference Point: 0.000, 0.000, -6.30 mm

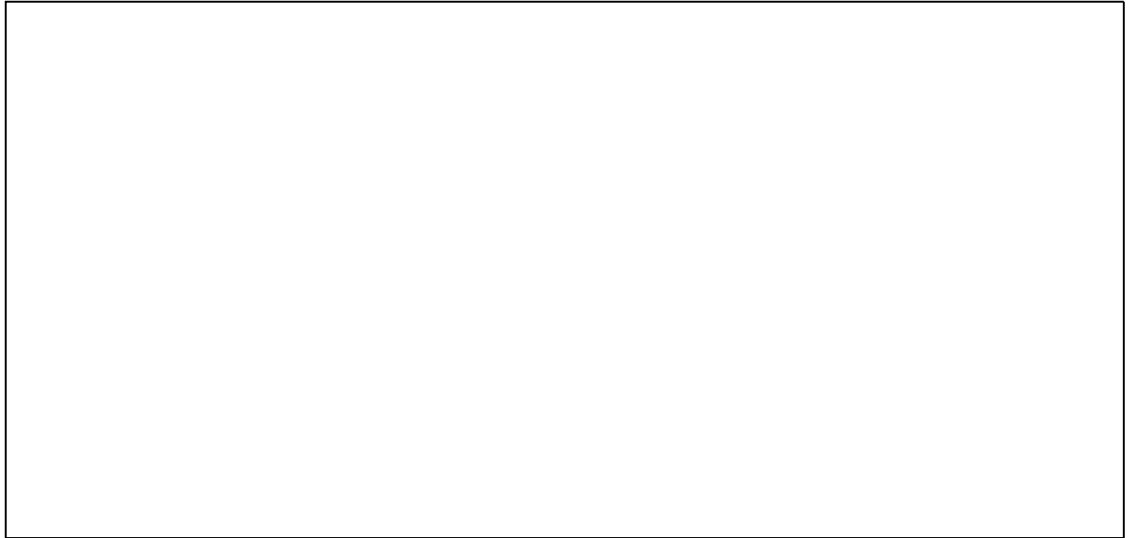
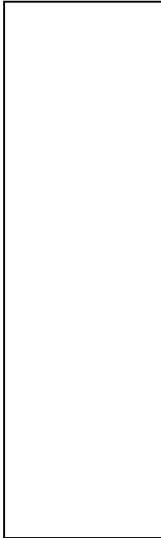
Reference Value = 77.0 V/m; Power Drift = -0.133 dB

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


Peak E-field in V/m

Grid 1 164.5 M3	Grid 2 193.0 M3	Grid 3 193.0 M3
Grid 4 163.7 M3	Grid 5 195.1 M3	Grid 6 195.1 M3
Grid 7 159.6 M3	Grid 8 192.0 M3	Grid 9 192.0 M3

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0 dB = 195.1V/m

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Date/Time: 1/13/2011 3:47:50 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM850_high_chan_Telecoil

DUT: BlackBerry Smartphone

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: RF Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 76.3 V/m; Power Drift = -0.158 dB

Maximum value of Total (measured) = 63.4 V/m

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

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Maximum value of peak Total field = 190.6 V/m

Probe Modulation Factor = 3.00


Device Reference Point: 0.000, 0.000, -6.30 mm

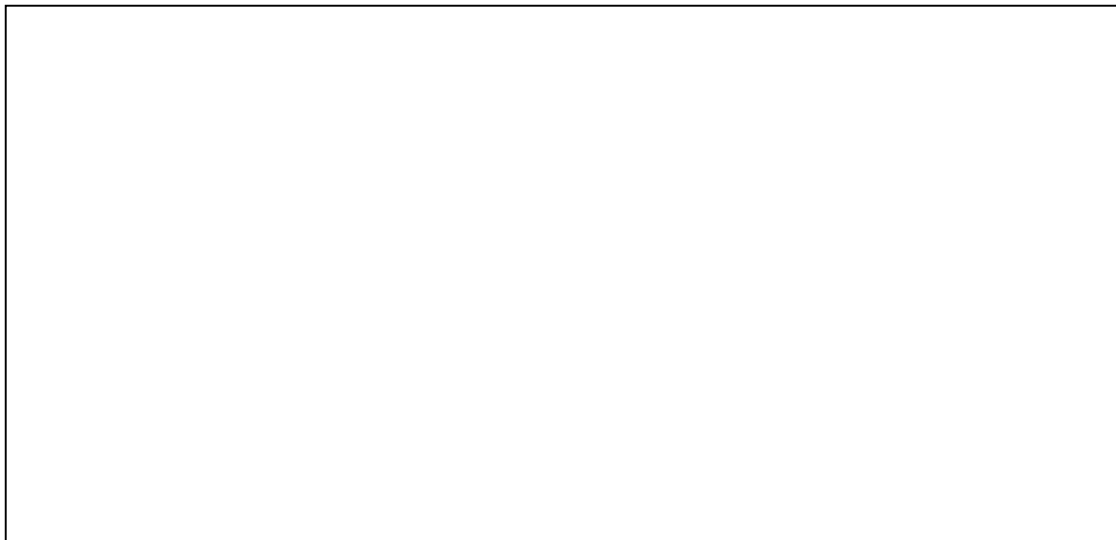
Reference Value = 76.3 V/m; Power Drift = -0.158 dB

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


Peak E-field in V/m

Grid 1 175.8 M3	Grid 2 182.9 M3	Grid 3 170.0 M3
Grid 4 175.8 M3	Grid 5 190.2 M3	Grid 6 184.3 M3
Grid 7 175.6 M3	Grid 8 190.6 M3	Grid 9 185.0 M3

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0 dB = 190.6V/m

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Date/Time: 1/13/2011 12:11:39 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_low_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 61.5 V/m; Power Drift = -0.043 dB

Maximum value of Total (measured) = 49.1 V/m

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 = 47.2 V/m

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Probe Modulation Factor = 0.960


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 61.5 V/m; Power Drift = -0.043 dB

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


Peak E-field in V/m

Grid 1 39.9 M4	Grid 2 46.4 M4	Grid 3 46.3 M4
Grid 4 40.8 M4	Grid 5 47.2 M4	Grid 6 46.9 M4
Grid 7 40.1 M4	Grid 8 46.6 M4	Grid 9 46.4 M4

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0 dB = 47.2V/m

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Date/Time: 1/13/2011 12:17:05 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_mid_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 62.8 V/m; Power Drift = -0.165 dB

Maximum value of Total (measured) = 50.6 V/m

**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 = 48.8 V/m

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Probe Modulation Factor = 0.960


Device Reference Point: 0.000, 0.000, -6.30 mm

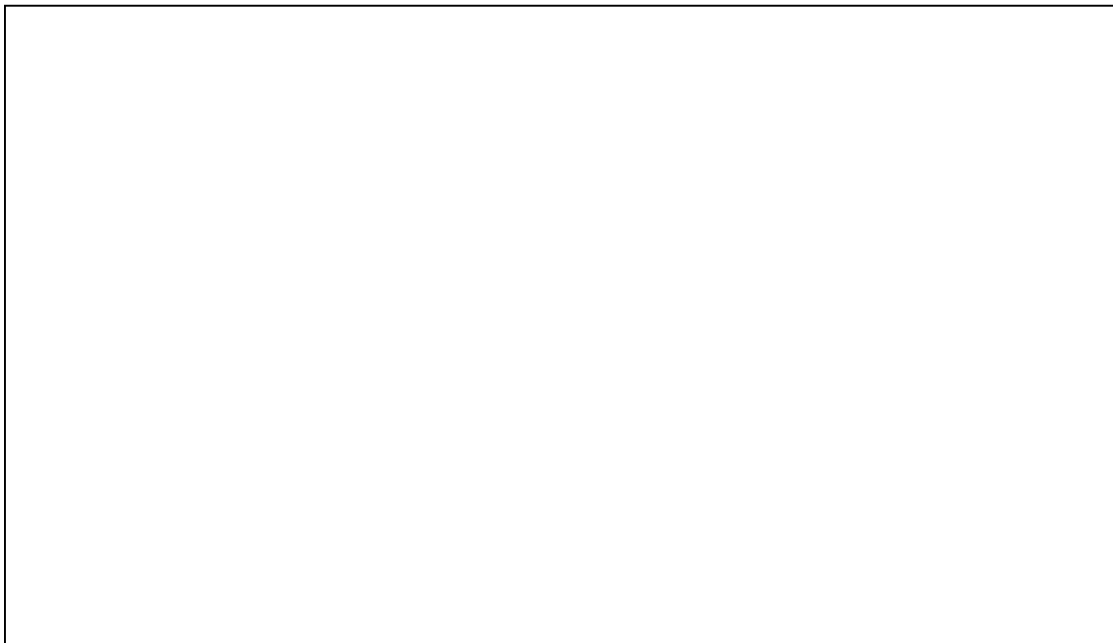
Reference Value = 62.8 V/m; Power Drift = -0.165 dB

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


Peak E-field in V/m

Grid 1 39.1 M4	Grid 2 47.1 M4	Grid 3 47.1 M4
Grid 4 40.1 M4	Grid 5 48.8 M4	Grid 6 48.8 M4
Grid 7 40.6 M4	Grid 8 48.7 M4	Grid 9 48.5 M4

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0 dB = 48.8V/m

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Date/Time: 1/13/2011 12:22:07 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_high_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 69.5 V/m; Power Drift = 0.114 dB

Maximum value of Total (measured) = 64.2 V/m

**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 = 60.4 V/m

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Probe Modulation Factor = 0.960


Device Reference Point: 0.000, 0.000, -6.30 mm

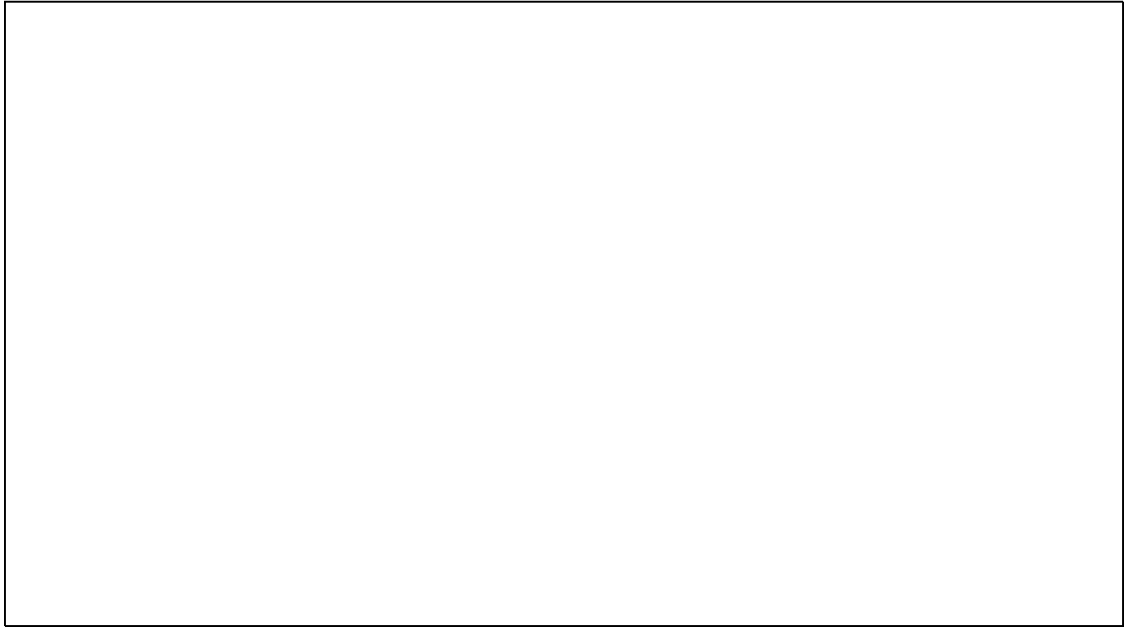
Reference Value = 69.5 V/m; Power Drift = 0.114 dB

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


Peak E-field in V/m

Grid 1 51.7 M4	Grid 2 55.0 M4	Grid 3 55.0 M4
Grid 4 46.3 M4	Grid 5 60.4 M4	Grid 6 61.7 M4
Grid 7 45.3 M4	Grid 8 60.0 M4	Grid 9 54.3 M4

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0 dB = 61.7V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/13/2011 12:27:05 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_high_chan_Telecoil

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 70.6 V/m; Power Drift = -0.034 dB

Maximum value of Total (measured) = 63.4 V/m

**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 = 60.4 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 0.960


Device Reference Point: 0.000, 0.000, -6.30 mm

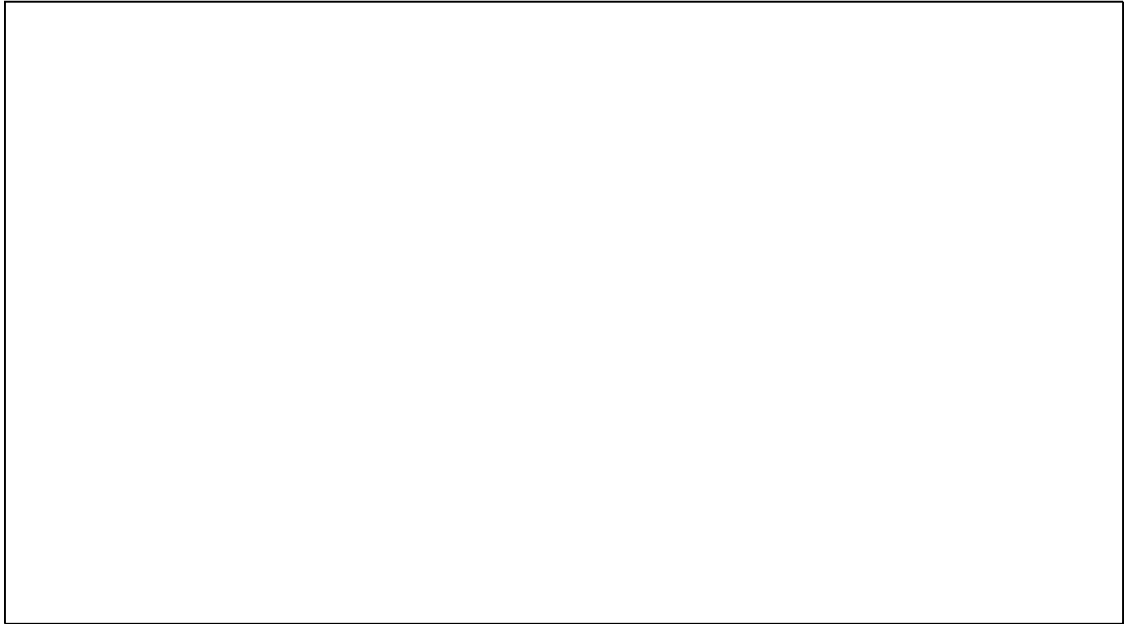
Reference Value = 70.6 V/m; Power Drift = -0.034 dB

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


Peak E-field in V/m

Grid 1 48.6 M4	Grid 2 51.3 M4	Grid 3 47.3 M4
Grid 4 55.2 M4	Grid 5 60.4 M4	Grid 6 52.3 M4
Grid 7 57.4 M4	Grid 8 61.0 M4	Grid 9 53.0 M4

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0 dB = 61.0V/m

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Date/Time: 1/13/2011 5:20:58 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_low_chan

DUT: BlackBerry Smartphone

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 13.6 V/m; Power Drift = -0.256 dB

Maximum value of Total (measured) = 33.9 V/m

**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 = 77.6 V/m

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Probe Modulation Factor = 2.61


Device Reference Point: 0.000, 0.000, -6.30 mm

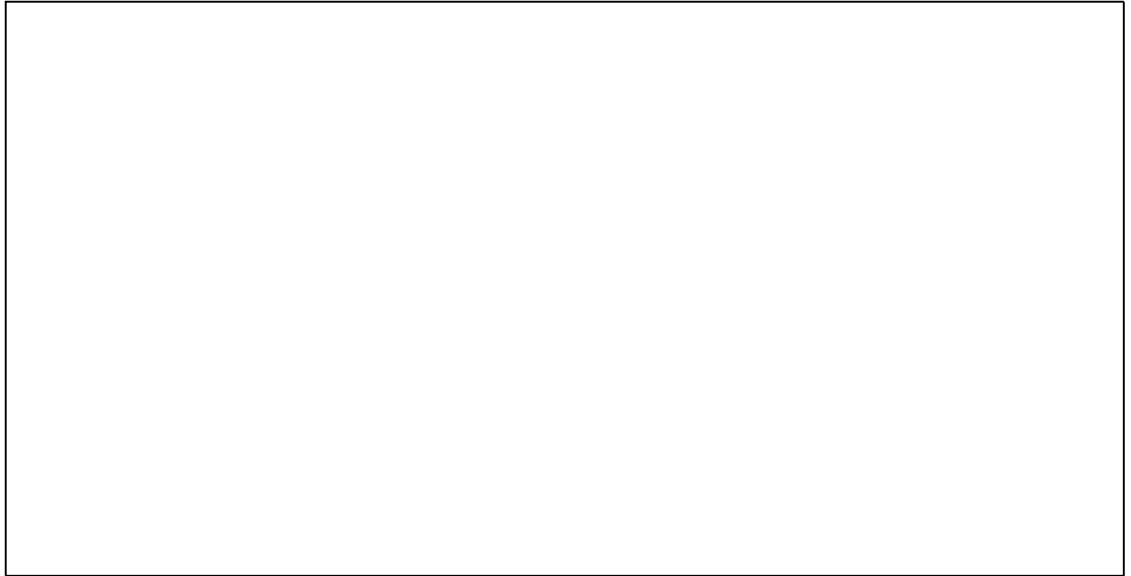
Reference Value = 13.6 V/m; Power Drift = -0.256 dB

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


Peak E-field in V/m

Grid 1 82.1 M3	Grid 2 88.5 M2	Grid 3 84.6 M2
Grid 4 41.8 M4	Grid 5 52.2 M3	Grid 6 53.3 M3
Grid 7 61.7 M3	Grid 8 77.6 M3	Grid 9 77.6 M3

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0 dB = 88.5V/m

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Date/Time: 1/13/2011 5:26:03 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_mid_chan

DUT: BlackBerry Smartphone

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 16.1 V/m; Power Drift = -0.285 dB

Maximum value of Total (measured) = 32.1 V/m

**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 = 63.4 V/m

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Probe Modulation Factor = 2.61


Device Reference Point: 0.000, 0.000, -6.30 mm

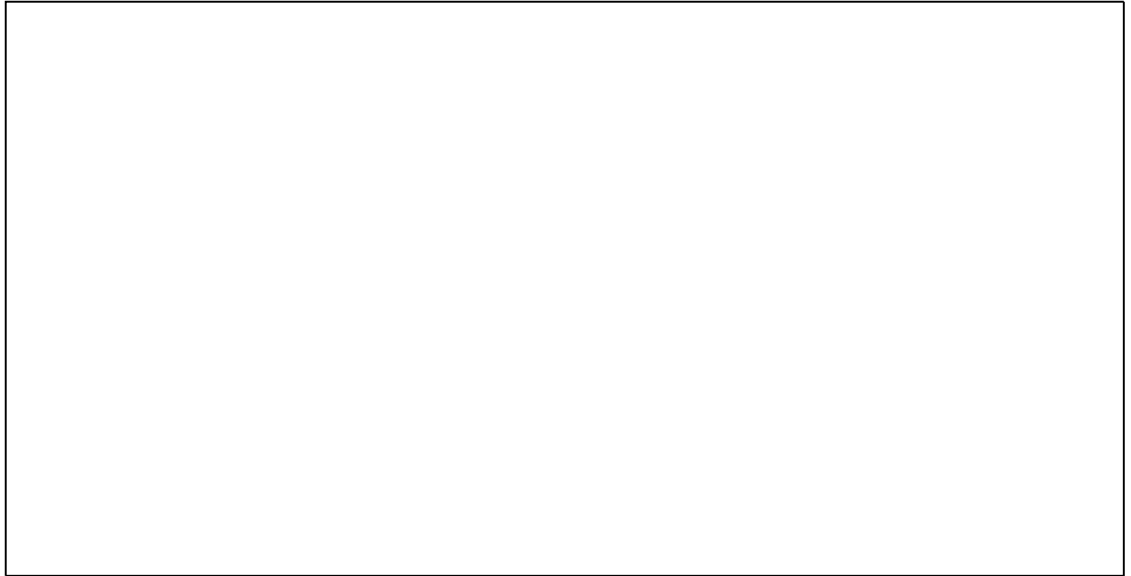
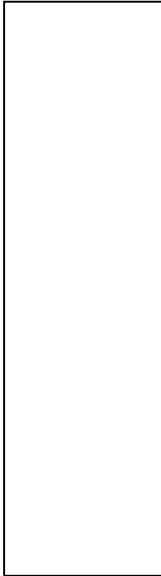
Reference Value = 16.1 V/m; Power Drift = -0.285 dB

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


Peak E-field in V/m

Grid 1 71.2 M3	Grid 2 83.7 M3	Grid 3 82.6 M3
Grid 4 39.4 M4	Grid 5 56.4 M3	Grid 6 57.6 M3
Grid 7 51.1 M3	Grid 8 63.4 M3	Grid 9 63.4 M3

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0 dB = 83.7V/m

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Date/Time: 1/13/2011 5:31:00 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_high_chan

DUT: BlackBerry Smartphone

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 15.7 V/m; Power Drift = -0.174 dB

Maximum value of Total (measured) = 30.1 V/m

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 = 59.0 V/m

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Probe Modulation Factor = 2.61


Device Reference Point: 0.000, 0.000, -6.30 mm

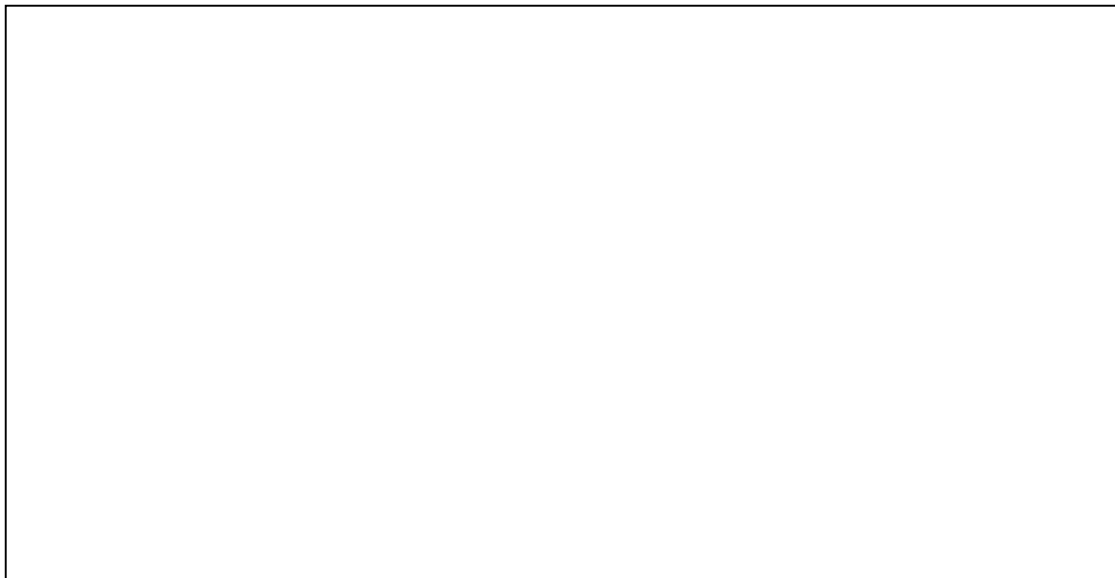
Reference Value = 15.7 V/m; Power Drift = -0.174 dB

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


Peak E-field in V/m

Grid 1 61.2 M3	Grid 2 79.1 M3	Grid 3 79.0 M3
Grid 4 35.7 M4	Grid 5 56.9 M3	Grid 6 59.0 M3
Grid 7 39.4 M4	Grid 8 47.6 M3	Grid 9 47.6 M3

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0 dB = 79.1V/m

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Date/Time: 1/13/2011 5:37:55 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_low_chan_Telecoil

DUT: BlackBerry Smartphone

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 12.8 V/m; Power Drift = -0.080 dB

Maximum value of Total (measured) = 35.5 V/m

**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 = 66.4 V/m

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Probe Modulation Factor = 2.61


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 12.8 V/m; Power Drift = -0.080 dB

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


Peak E-field in V/m

Grid 1 92.8 M2	Grid 2 92.9 M2	Grid 3 78.0 M3
Grid 4 61.4 M3	Grid 5 66.4 M3	Grid 6 64.1 M3
Grid 7 52.1 M3	Grid 8 63.4 M3	Grid 9 63.3 M3

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0 dB = 92.9V/m

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Date/Time: 1/13/2011 12:40:26 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_low_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.2 V/m; Power Drift = -0.831 dB

Maximum value of Total (measured) = 37.1 V/m

**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 = 31.6 V/m

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Probe Modulation Factor = 0.900


Device Reference Point: 0.000, 0.000, -6.30 mm

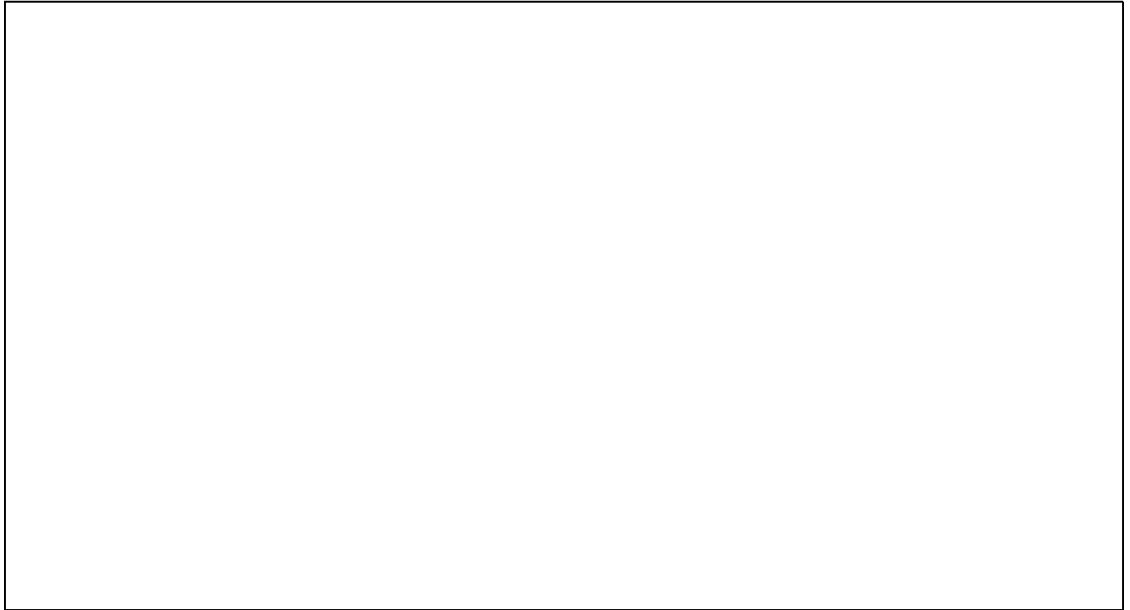
Reference Value = 20.2 V/m; Power Drift = -0.831 dB

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


Peak E-field in V/m

Grid 1 27.8 M4	Grid 2 33.4 M4	Grid 3 33.0 M4
Grid 4 14.6 M4	Grid 5 21.9 M4	Grid 6 25.1 M4
Grid 7 22.6 M4	Grid 8 31.6 M4	Grid 9 29.5 M4

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0 dB = 33.4V/m

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Date/Time: 1/13/2011 12:50:24 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_mid_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 23.9 V/m; Power Drift = 0.122 dB

Maximum value of Total (measured) = 42.1 V/m

**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 = 28.6 V/m

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Probe Modulation Factor = 0.900


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 23.9 V/m; Power Drift = 0.122 dB

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


Peak E-field in V/m

Grid 1 28.6 M4	Grid 2 38.0 M4	Grid 3 38.0 M4
Grid 4 15.8 M4	Grid 5 27.6 M4	Grid 6 28.7 M4
Grid 7 22.3 M4	Grid 8 27.2 M4	Grid 9 27.1 M4

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0 dB = 38.0V/m

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Date/Time: 1/13/2011 12:55:12 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_high_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 25.9 V/m; Power Drift = -0.487 dB

Maximum value of Total (measured) = 48.2 V/m

**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 = 31.6 V/m

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Probe Modulation Factor = 0.900

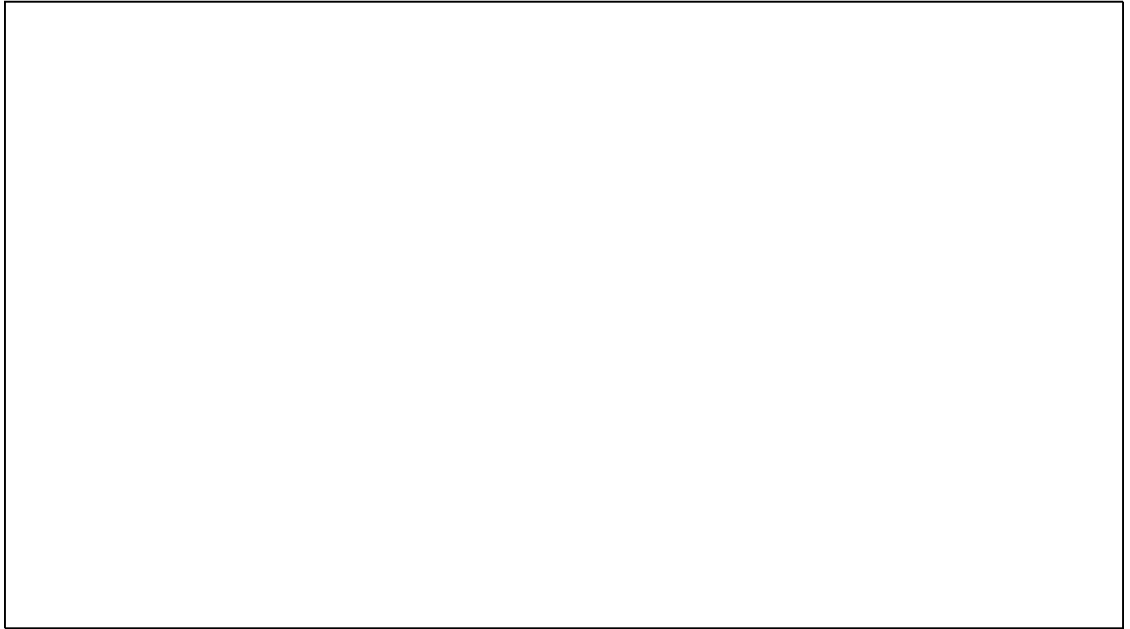
Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 25.9 V/m; Power Drift = -0.487 dB


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

Peak E-field in V/m		
Grid 1 31.6 M4	Grid 2 43.5 M4	Grid 3 42.4 M4
Grid 4 16.5 M4	Grid 5 31.4 M4	Grid 6 32.7 M4
Grid 7 21.1 M4	Grid 8 25.3 M4	Grid 9 25.3 M4

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0 dB = 43.5V/m

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Date/Time: 1/13/2011 1:00:42 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_high_chan_Telecoil

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 25.1 V/m; Power Drift = -0.076 dB

Maximum value of Total (measured) = 48.9 V/m

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 = 41.6 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 0.900


Device Reference Point: 0.000, 0.000, -6.30 mm

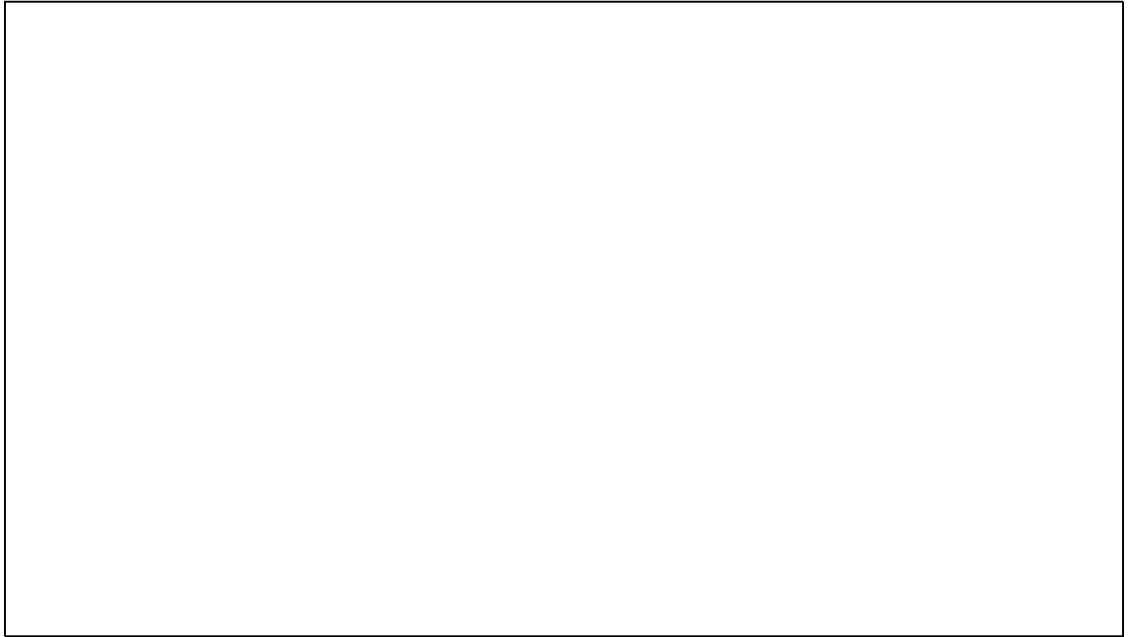
Reference Value = 25.1 V/m; Power Drift = -0.076 dB

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


Peak E-field in V/m

Grid 1 40.8 M4	Grid 2 44.2 M4	Grid 3 42.4 M4
Grid 4 33.2 M4	Grid 5 41.6 M4	Grid 6 41.1 M4
Grid 7 18.7 M4	Grid 8 30.8 M4	Grid 9 30.8 M4

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0 dB = 44.2V/m

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Date/Time: 1/12/2011 10:34:16 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM850_low_chan_Slide_Open

DUT: BlackBerry Smartphone

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 71.8 V/m; Power Drift = 0.131 dB

Maximum value of Total (measured) = 57.5 V/m

**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 = 172.7 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 3.00


Device Reference Point: 0.000, 0.000, -6.30 mm

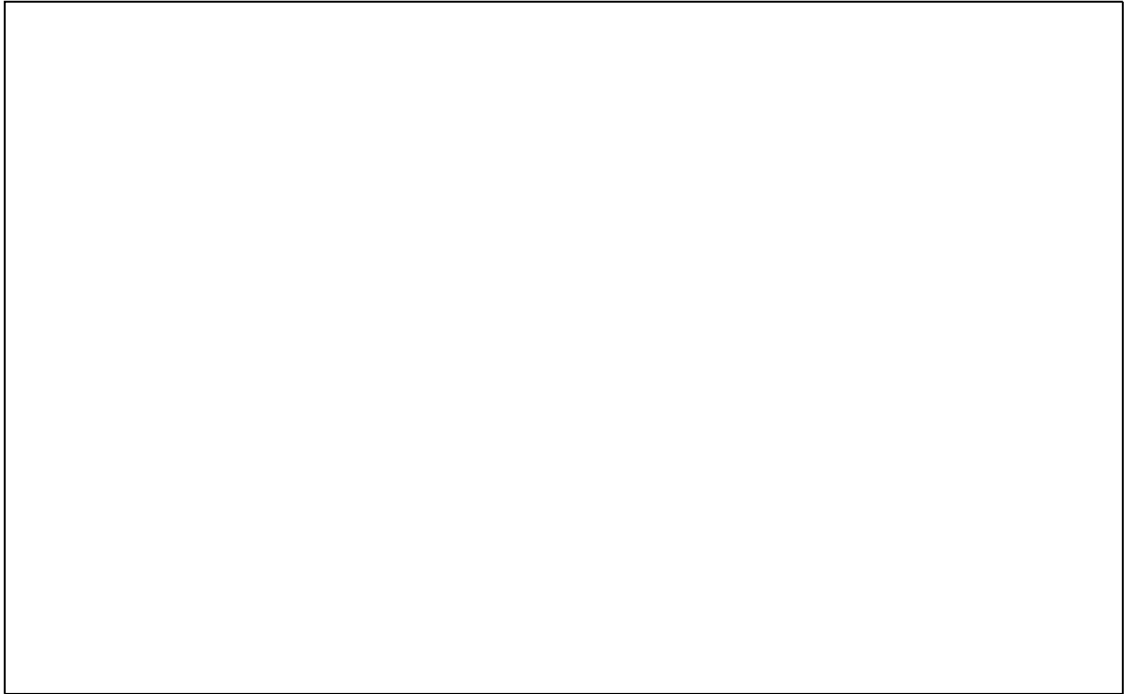
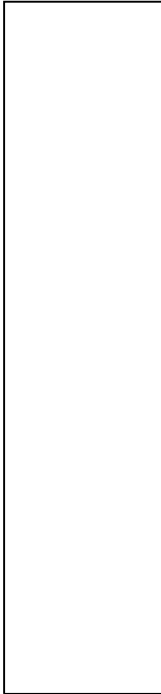
Reference Value = 71.8 V/m; Power Drift = 0.131 dB

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


Peak E-field in V/m

Grid 1 151.5 M3	Grid 2 168.7 M3	Grid 3 166.4 M3
Grid 4 154.9 M3	Grid 5 172.7 M3	Grid 6 169.3 M3
Grid 7 154.6 M3	Grid 8 169.6 M3	Grid 9 165.8 M3

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0 dB = 172.7V/m

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Date/Time: 1/12/2011 10:40:53 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM850_mid_chan_Slide_Open

DUT: BlackBerry Smartphone

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 84.6 V/m; Power Drift = -0.305 dB

Maximum value of Total (measured) = 65.1 V/m

**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 = 195.3 V/m

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Probe Modulation Factor = 3.00


Device Reference Point: 0.000, 0.000, -6.30 mm

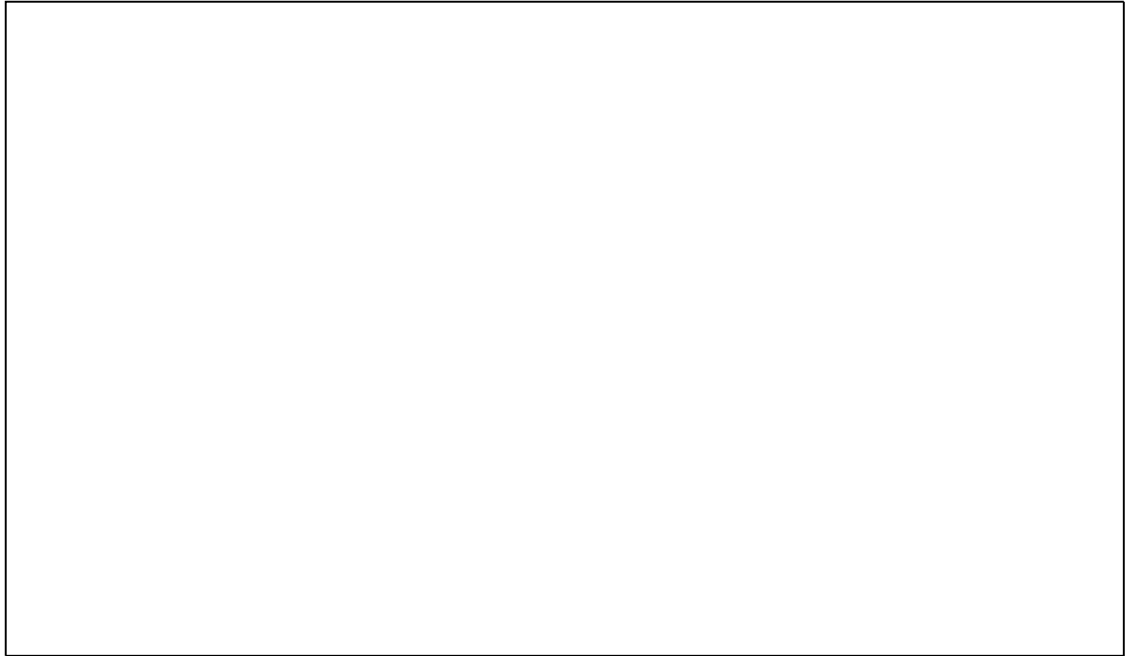
Reference Value = 84.6 V/m; Power Drift = -0.305 dB

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


Peak E-field in V/m

Grid 1 166.1 M3	Grid 2 190.4 M3	Grid 3 188.5 M3
Grid 4 169.7 M3	Grid 5 195.3 M3	Grid 6 192.2 M3
Grid 7 170.4 M3	Grid 8 192.3 M3	Grid 9 189.1 M3

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0 dB = 195.3V/m

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Date/Time: 1/12/2011 10:45:44 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM850_high_chan_Slide_Open

DUT: BlackBerry Smartphone

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 85.3 V/m; Power Drift = -0.041 dB

Maximum value of Total (measured) = 67.2 V/m

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 = 201.6 V/m

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Probe Modulation Factor = 3.00


Device Reference Point: 0.000, 0.000, -6.30 mm

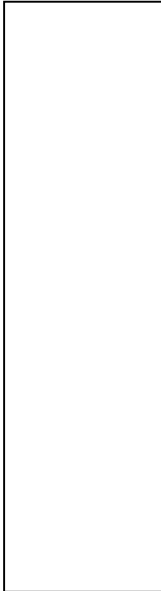
Reference Value = 85.3 V/m; Power Drift = -0.041 dB

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


Peak E-field in V/m

Grid 1 176.8 M3	Grid 2 198.4 M3	Grid 3 196.1 M3
Grid 4 175.8 M3	Grid 5 201.6 M3	Grid 6 198.6 M3
Grid 7 172.0 M3	Grid 8 196.4 M3	Grid 9 194.2 M3

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0 dB = 201.6V/m

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Date/Time: 1/12/2011 10:50:20 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM850_high_chan_Slide_Open_Telecoil

DUT: BlackBerry Smartphone

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 84.0 V/m; Power Drift = 0.049 dB

Maximum value of Total (measured) = 65.9 V/m

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 = 198.4 V/m

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Probe Modulation Factor = 3.00


Device Reference Point: 0.000, 0.000, -6.30 mm

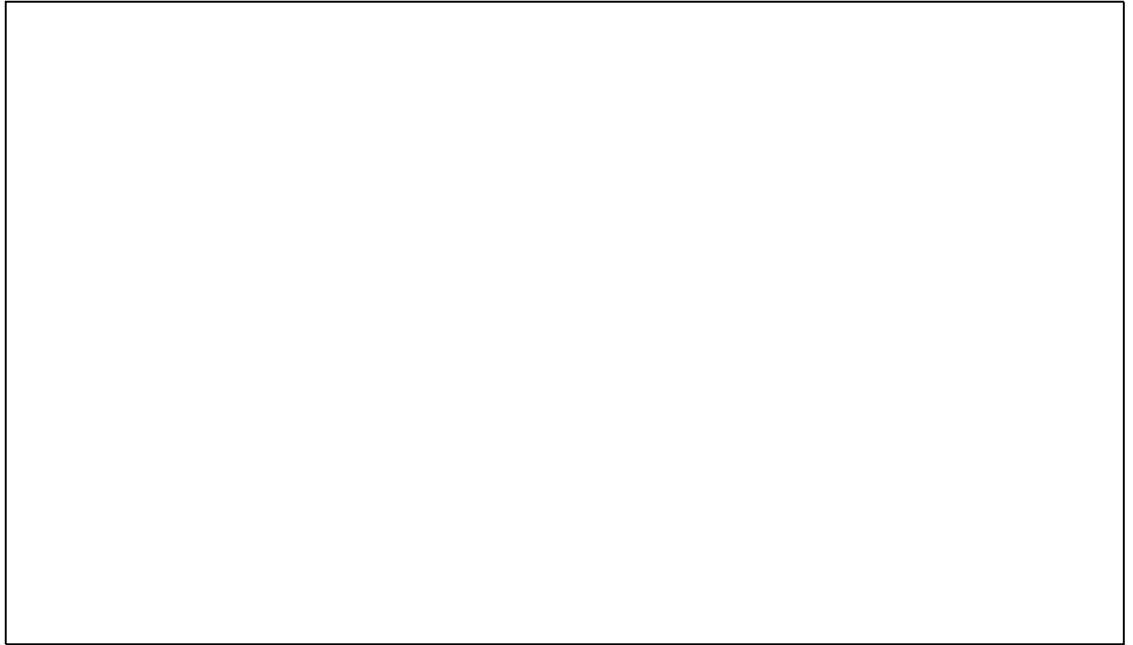
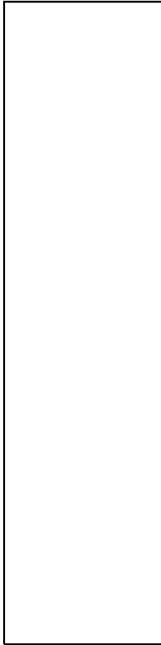
Reference Value = 84.0 V/m; Power Drift = 0.049 dB

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


Peak E-field in V/m

Grid 1 180.7 M3	Grid 2 191.5 M3	Grid 3 179.3 M3
Grid 4 181.2 M3	Grid 5 198.4 M3	Grid 6 189.4 M3
Grid 7 181.2 M3	Grid 8 198.4 M3	Grid 9 189.6 M3

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0 dB = 198.4V/m

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Date/Time: 1/12/2011 11:50:16 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_low_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 72.0 V/m; Power Drift = -0.132 dB

Maximum value of Total (measured) = 57.3 V/m

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 = 55.2 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 0.960


Device Reference Point: 0.000, 0.000, -6.30 mm

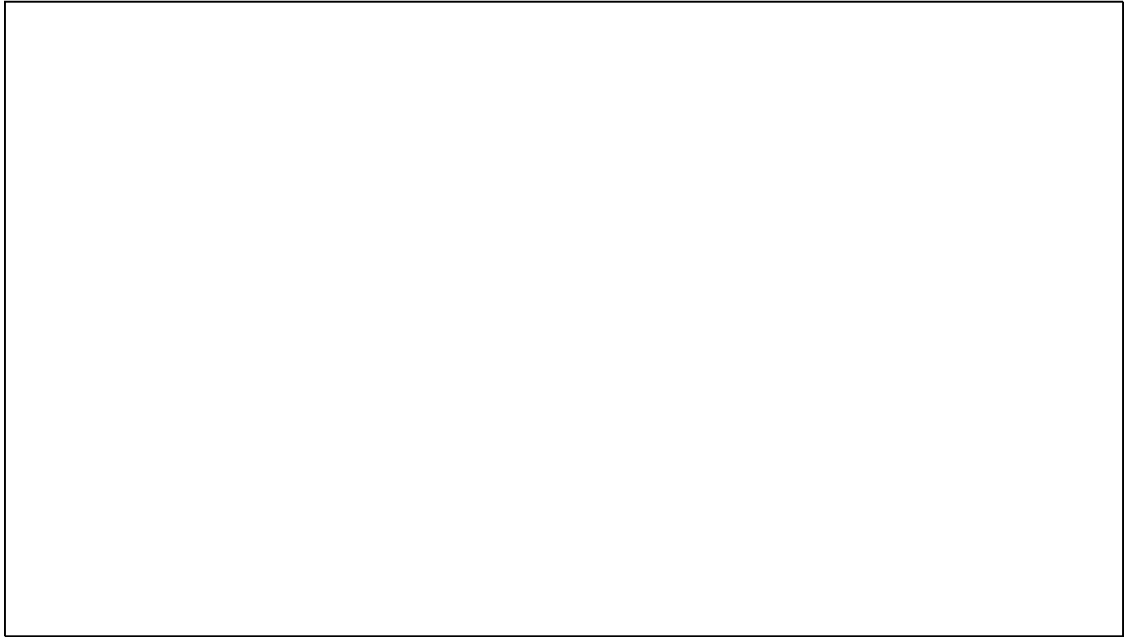
Reference Value = 72.0 V/m; Power Drift = -0.132 dB

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


Peak E-field in V/m

Grid 1 47.0 M4	Grid 2 54.1 M4	Grid 3 54.0 M4
Grid 4 47.5 M4	Grid 5 55.2 M4	Grid 6 55.1 M4
Grid 7 46.9 M4	Grid 8 54.3 M4	Grid 9 54.2 M4

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0 dB = 55.2V/m

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Date/Time: 1/12/2011 11:56:17 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_mid_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 69.6 V/m; Power Drift = -0.167 dB

Maximum value of Total (measured) = 56.4 V/m

**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 = 54.6 V/m

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Probe Modulation Factor = 0.960


Device Reference Point: 0.000, 0.000, -6.30 mm

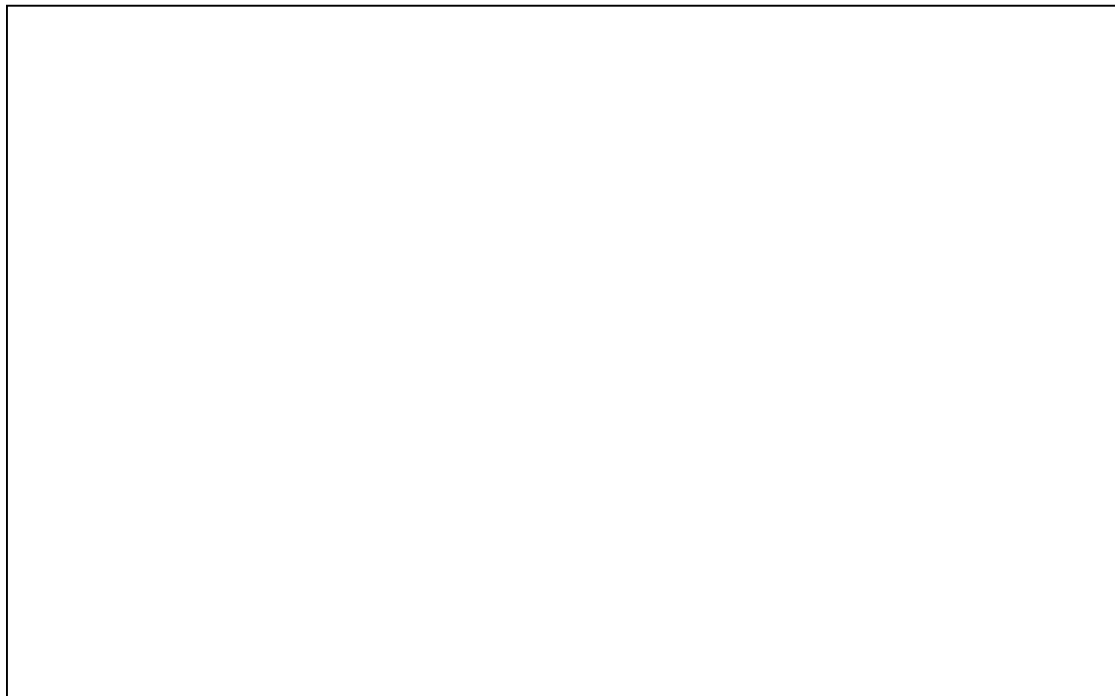
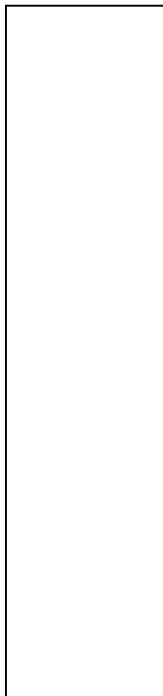
Reference Value = 69.6 V/m; Power Drift = -0.167 dB

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


Peak E-field in V/m

Grid 1 43.9 M4	Grid 2 52.8 M4	Grid 3 52.4 M4
Grid 4 45.7 M4	Grid 5 54.6 M4	Grid 6 54.6 M4
Grid 7 45.7 M4	Grid 8 54.3 M4	Grid 9 54.3 M4

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0 dB = 54.6V/m

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Date/Time: 1/13/2011 12:00:49 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_high_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 78.2 V/m; Power Drift = 0.049 dB

Maximum value of Total (measured) = 63.6 V/m

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 = 61.3 V/m

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Probe Modulation Factor = 0.960


Device Reference Point: 0.000, 0.000, -6.30 mm

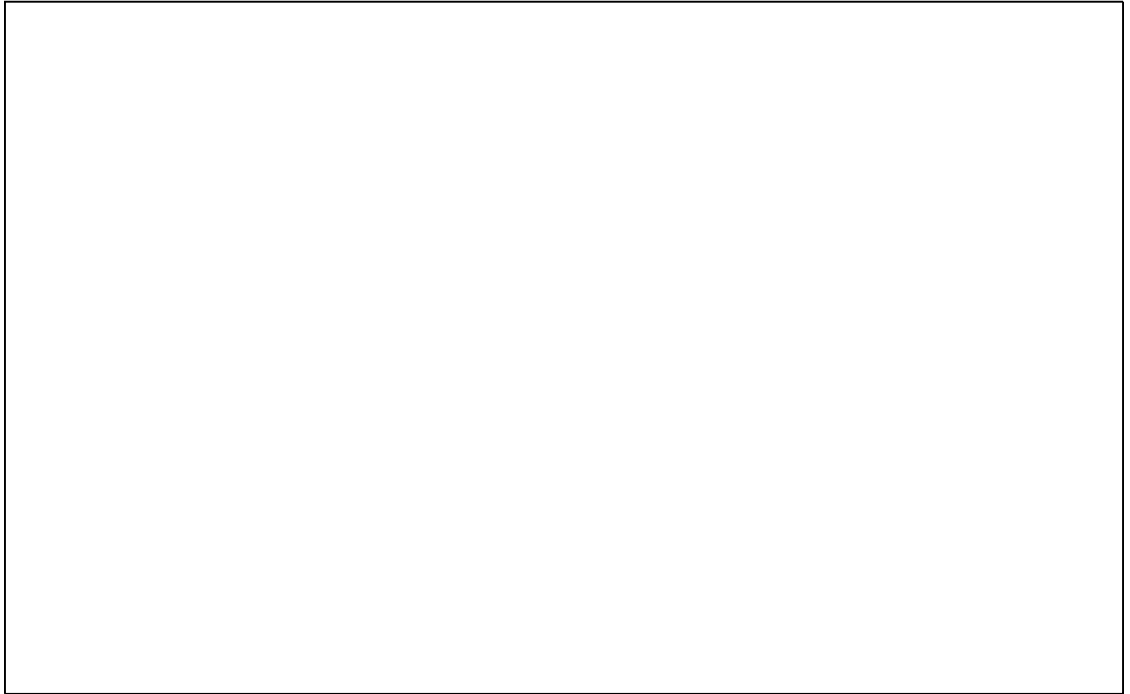
Reference Value = 78.2 V/m; Power Drift = 0.049 dB

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


Peak E-field in V/m

Grid 1 51.9 M4	Grid 2 60.2 M4	Grid 3 60.1 M4
Grid 4 51.9 M4	Grid 5 61.3 M4	Grid 6 61.3 M4
Grid 7 55.4 M4	Grid 8 60.2 M4	Grid 9 60.1 M4

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0 dB = 61.3V/m

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Date/Time: 1/13/2011 12:06:02 AM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_V_high_chan_Slide_Open_Telecoil

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 79.4 V/m; Power Drift = 0.014 dB

Maximum value of Total (measured) = 72.6 V/m

**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

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/ REN71UW		195 (342)
Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 0.960


Device Reference Point: 0.000, 0.000, -6.30 mm

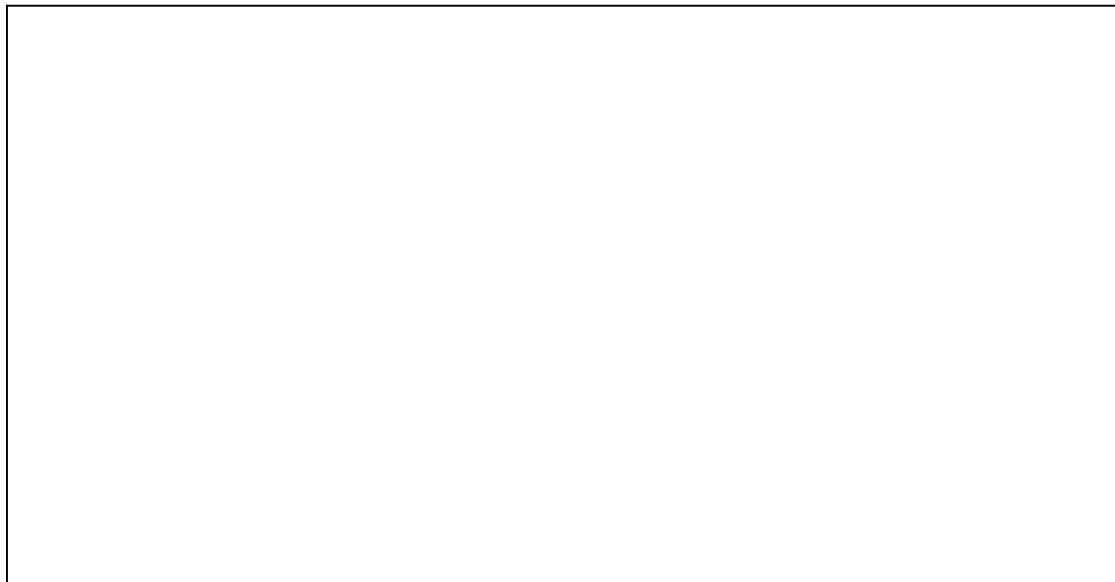
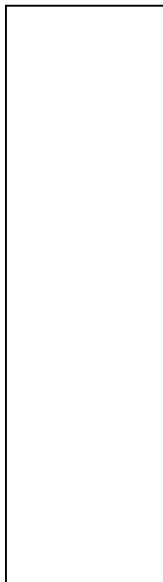
Reference Value = 79.4 V/m; Power Drift = 0.014 dB

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


Peak E-field in V/m

Grid 1 54.1 M4	Grid 2 60.5 M4	Grid 3 57.4 M4
Grid 4 56.3 M4	Grid 5 69.7 M4	Grid 6 60.2 M4
Grid 7 54.6 M4	Grid 8 61.6 M4	Grid 9 60.2 M4

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/ REN71UW		196 (342)
Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW



0 dB = 69.7V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/12/2011 11:07:21 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_low_chan_Slide_Open

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 16.0 V/m; Power Drift = 0.004 dB

Maximum value of Total (measured) = 32.1 V/m

**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 = 71.5 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 2.61


Device Reference Point: 0.000, 0.000, -6.30 mm

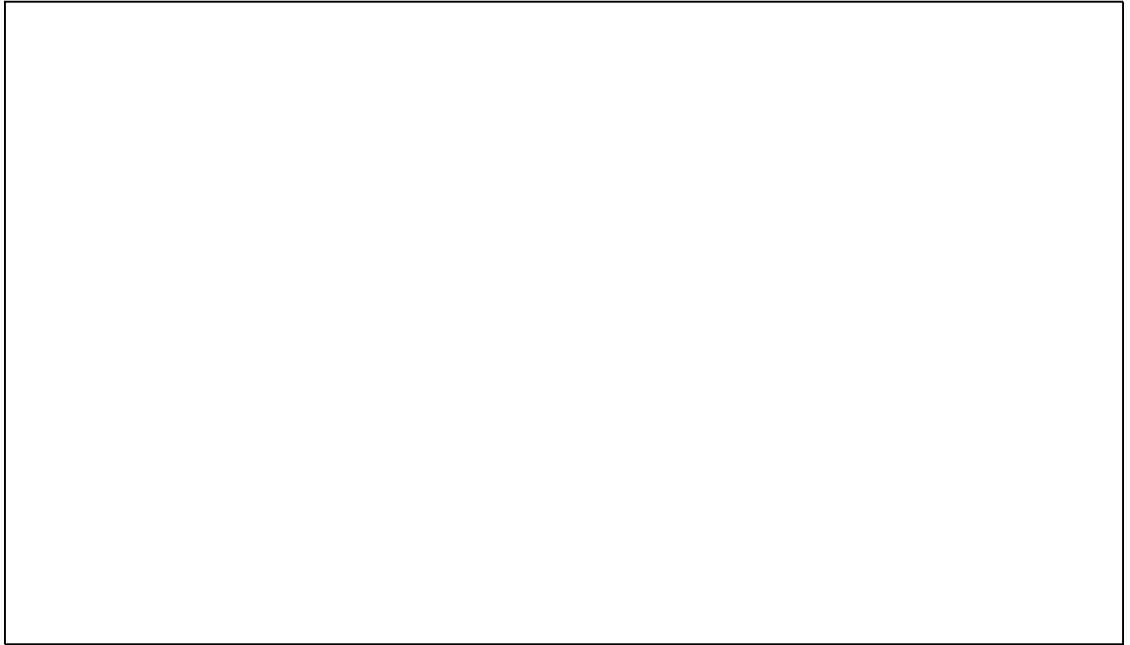
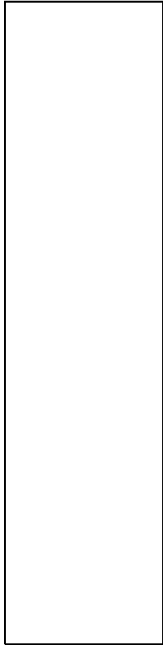
Reference Value = 16.0 V/m; Power Drift = 0.004 dB

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


Peak E-field in V/m

Grid 1 63.7 M3	Grid 2 64.3 M3	Grid 3 59.4 M3
Grid 4 44.5 M4	Grid 5 58.3 M3	Grid 6 58.3 M3
Grid 7 71.5 M3	Grid 8 84.0 M3	Grid 9 82.4 M3

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW



0 dB = 84.0V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/12/2011 11:13:03 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_mid_chan_Slide_Open

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.5 V/m; Power Drift = -0.287 dB

Maximum value of Total (measured) = 27.7 V/m

**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 = 72.3 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 2.61


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.5 V/m; Power Drift = -0.287 dB

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


Peak E-field in V/m

Grid 1 63.4 M3	Grid 2 67.0 M3	Grid 3 64.1 M3
Grid 4 42.2 M4	Grid 5 56.0 M3	Grid 6 56.3 M3
Grid 7 62.6 M3	Grid 8 72.3 M3	Grid 9 71.1 M3

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW



0 dB = 72.3V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/12/2011 11:18:03 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_high_chan_Slide_Open

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 14.3 V/m; Power Drift = 0.027 dB

Maximum value of Total (measured) = 27.2 V/m

**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 = 59.6 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 2.61


Device Reference Point: 0.000, 0.000, -6.30 mm

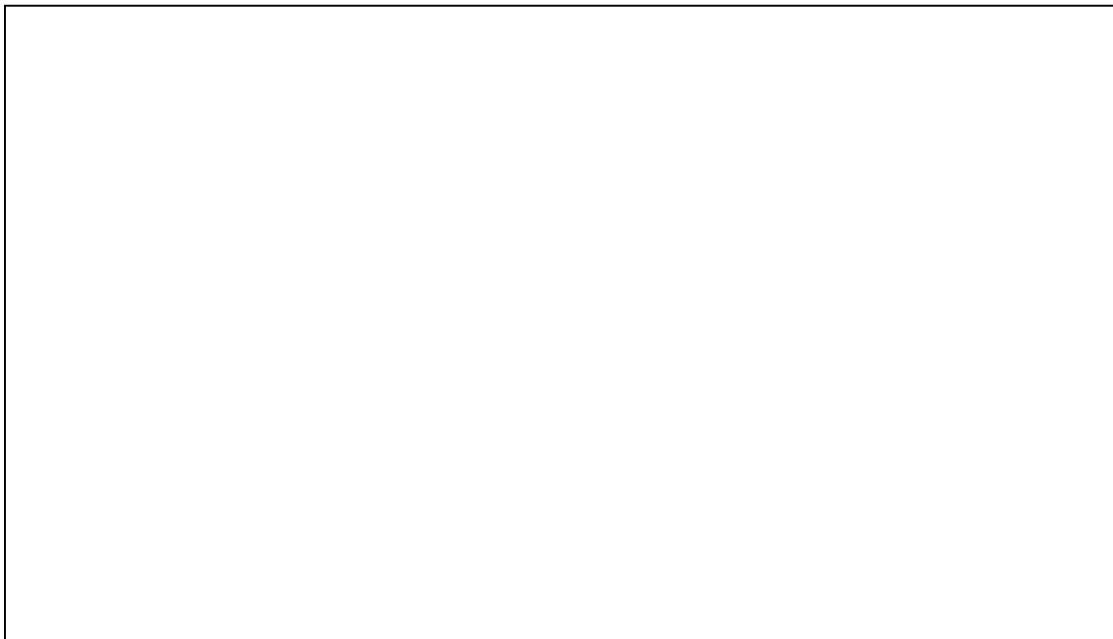
Reference Value = 14.3 V/m; Power Drift = 0.027 dB

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


Peak E-field in V/m

Grid 1 64.3 M3	Grid 2 71.2 M3	Grid 3 69.9 M3
Grid 4 36.5 M4	Grid 5 48.6 M3	Grid 6 51.3 M3
Grid 7 48.0 M3	Grid 8 59.6 M3	Grid 9 59.6 M3

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW



0 dB = 71.2V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/12/2011 11:23:16 PM

Test Laboratory: RIM Testing Services

HAC_E_GSM1900_mid_chan_Slide_Open_Telecoil

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 18.0 V/m; Power Drift = -0.179 dB

Maximum value of Total (measured) = 28.9 V/m

**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 = 64.1 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 2.61


Device Reference Point: 0.000, 0.000, -6.30 mm

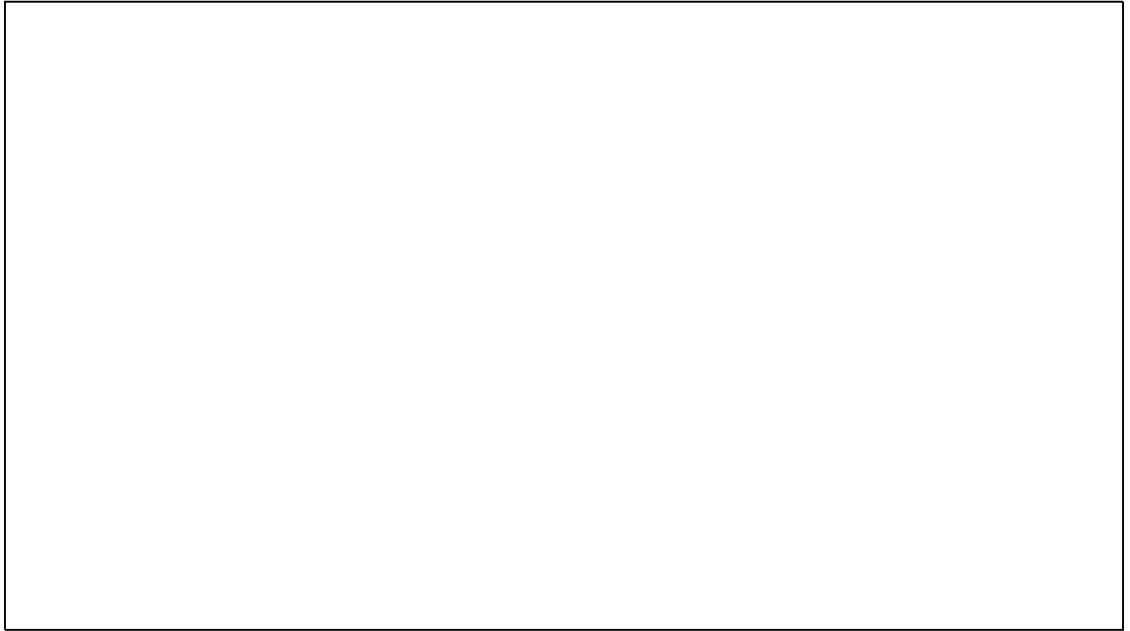
Reference Value = 18.0 V/m; Power Drift = -0.179 dB

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


Peak E-field in V/m

Grid 1 75.6 M3	Grid 2 75.5 M3	Grid 3 61.9 M3
Grid 4 48.1 M3	Grid 5 53.7 M3	Grid 6 53.3 M3
Grid 7 57.4 M3	Grid 8 64.1 M3	Grid 9 61.5 M3

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0 dB = 75.6V/m

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Date/Time: 1/12/2011 11:29:21 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_low_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 19.3 V/m; Power Drift = -0.609 dB

Maximum value of Total (measured) = 38.6 V/m

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 = 31.4 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 0.900


Device Reference Point: 0.000, 0.000, -6.30 mm

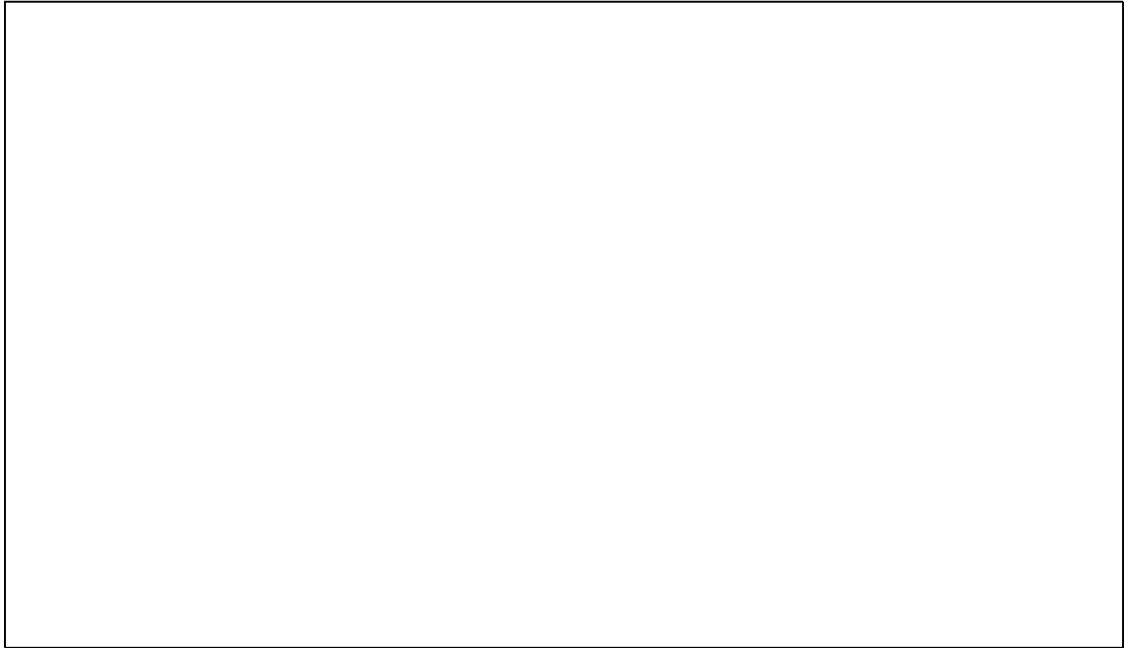
Reference Value = 19.3 V/m; Power Drift = -0.609 dB

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


Peak E-field in V/m

Grid 1 27.8 M4	Grid 2 30.9 M4	Grid 3 31.4 M4
Grid 4 17.5 M4	Grid 5 23.7 M4	Grid 6 27.1 M4
Grid 7 29.0 M4	Grid 8 35.2 M4	Grid 9 32.7 M4

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW



0 dB = 35.2V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/12/2011 11:34:33 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_mid_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid
Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 22.2 V/m; Power Drift = -0.027 dB

Maximum value of Total (measured) = 36.4 V/m

**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 = 32.7 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 0.900


Device Reference Point: 0.000, 0.000, -6.30 mm

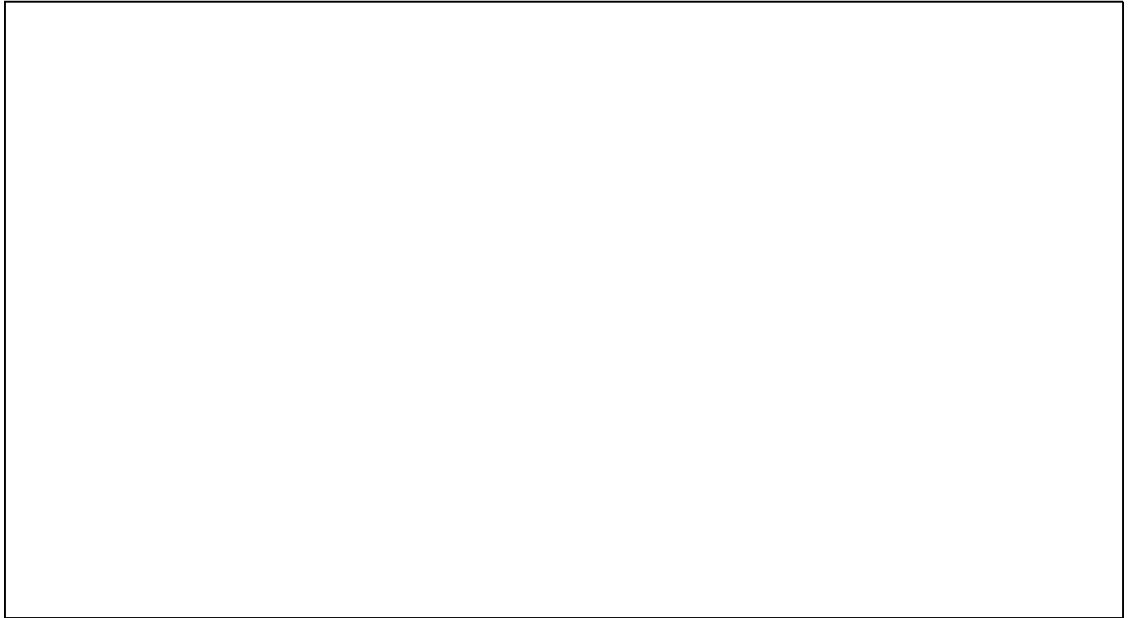
Reference Value = 22.2 V/m; Power Drift = -0.027 dB

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


Peak E-field in V/m

Grid 1 28.6 M4	Grid 2 30.3 M4	Grid 3 29.6 M4
Grid 4 18.1 M4	Grid 5 25.1 M4	Grid 6 25.3 M4
Grid 7 27.7 M4	Grid 8 32.7 M4	Grid 9 32.3 M4

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0 dB = 32.7V/m

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Date/Time: 1/12/2011 11:39:34 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_high_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 20.9 V/m; Power Drift = 0.082 dB

Maximum value of Total (measured) = 40.1 V/m

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 = 31.6 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 0.900


Device Reference Point: 0.000, 0.000, -6.30 mm

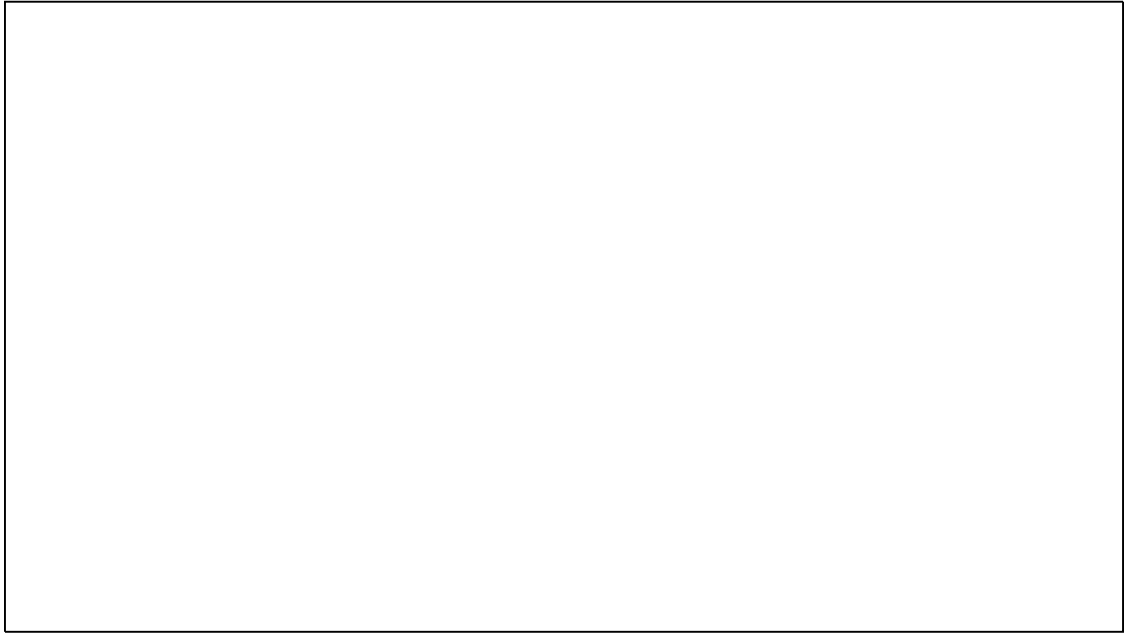
Reference Value = 20.9 V/m; Power Drift = 0.082 dB

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


Peak E-field in V/m

Grid 1 32.4 M4	Grid 2 36.2 M4	Grid 3 35.5 M4
Grid 4 16.5 M4	Grid 5 25.5 M4	Grid 6 26.7 M4
Grid 7 25.9 M4	Grid 8 31.6 M4	Grid 9 31.6 M4

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0 dB = 36.2V/m

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Date/Time: 1/12/2011 11:44:53 PM

Test Laboratory: RIM Testing Services

HAC_E_UMTS_band_II_mid_chan_Slide_Open_Telecoil

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: ER3DV6 - SN2285; ConvF(1, 1, 1); Calibrated: 3/8/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

E Scan - ER3D - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 23.8 V/m; Power Drift = -0.628 dB

Maximum value of Total (measured) = 39.7 V/m

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 = 29.7 V/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Probe Modulation Factor = 0.900


Device Reference Point: 0.000, 0.000, -6.30 mm

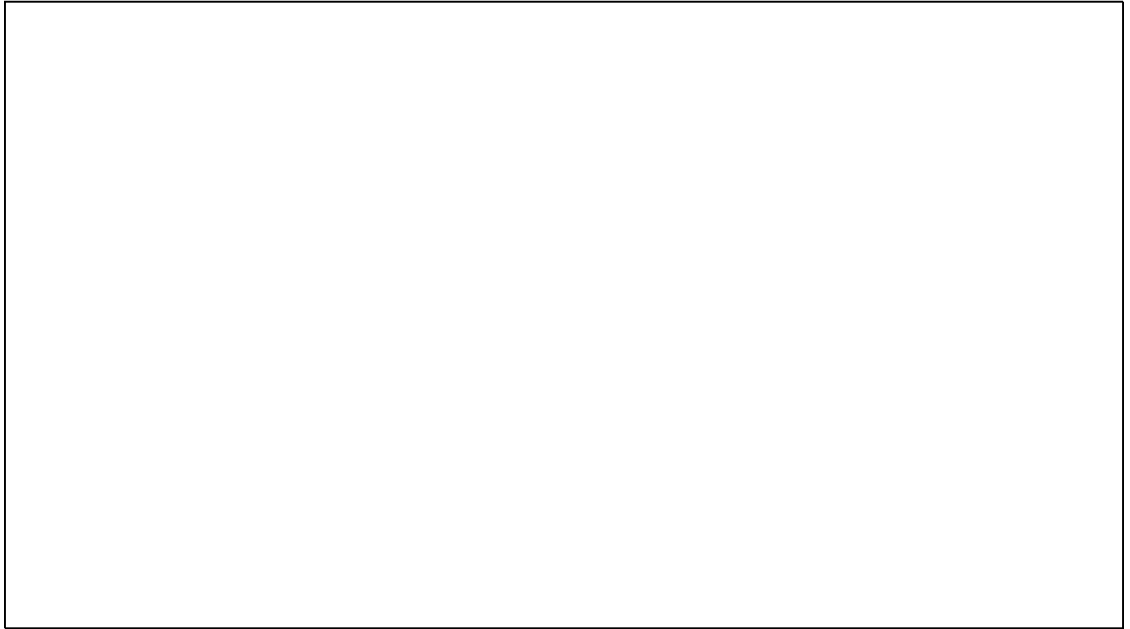
Reference Value = 23.8 V/m; Power Drift = -0.628 dB

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


Peak E-field in V/m

Grid 1 35.7 M4	Grid 2 35.0 M4	Grid 3 29.2 M4
Grid 4 21.7 M4	Grid 5 25.1 M4	Grid 6 25.0 M4
Grid 7 26.2 M4	Grid 8 29.7 M4	Grid 9 28.9 M4

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0 dB = 35.7V/m

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Date/Time: 1/12/2011 9:59:22 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_low_chan

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.053 A/m; Power Drift = 0.017 dB

Maximum value of Total (measured) = 0.106 A/m

**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 = 0.222 A/m

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Probe Modulation Factor = 2.87


Device Reference Point: 0.000, 0.000, -6.30 mm

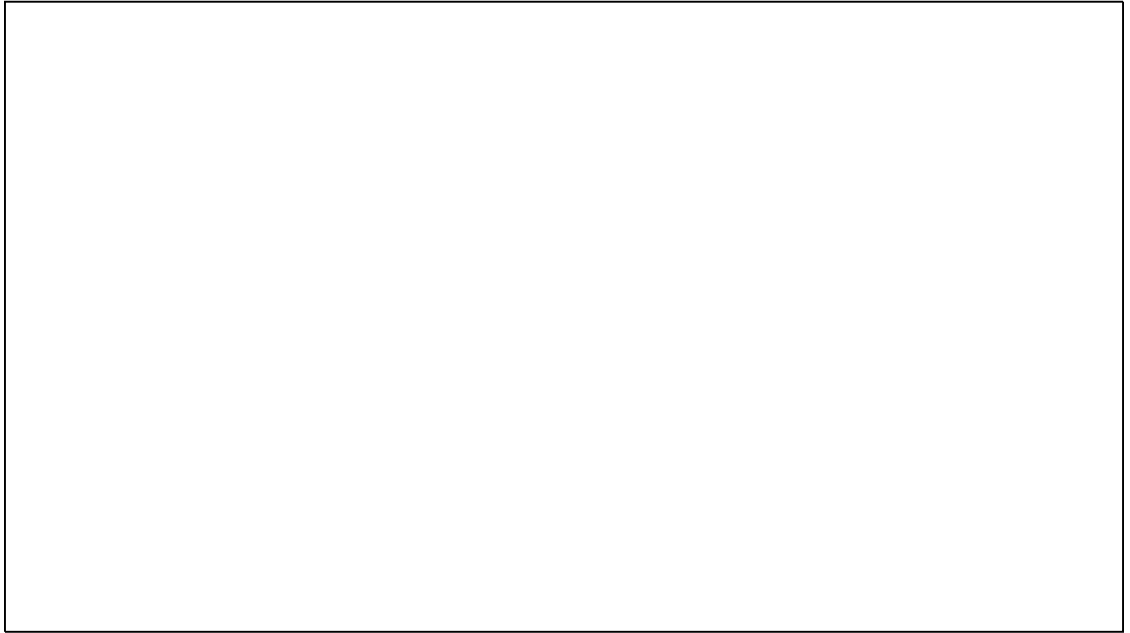
Reference Value = 0.053 A/m; Power Drift = 0.017 dB

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


Peak H-field in A/m

Grid 1 0.308 M4	Grid 2 0.222 M4	Grid 3 0.136 M4
Grid 4 0.274 M4	Grid 5 0.195 M4	Grid 6 0.118 M4
Grid 7 0.304 M4	Grid 8 0.214 M4	Grid 9 0.130 M4

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0 dB = 0.308A/m

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Date/Time: 1/12/2011 10:05:15 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_mid_chan

DUT: BlackBerry Smartphone;

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.067 A/m; Power Drift = 0.033 dB

Maximum value of Total (measured) = 0.129 A/m

**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 = 0.270 A/m

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Probe Modulation Factor = 2.87


Device Reference Point: 0.000, 0.000, -6.30 mm

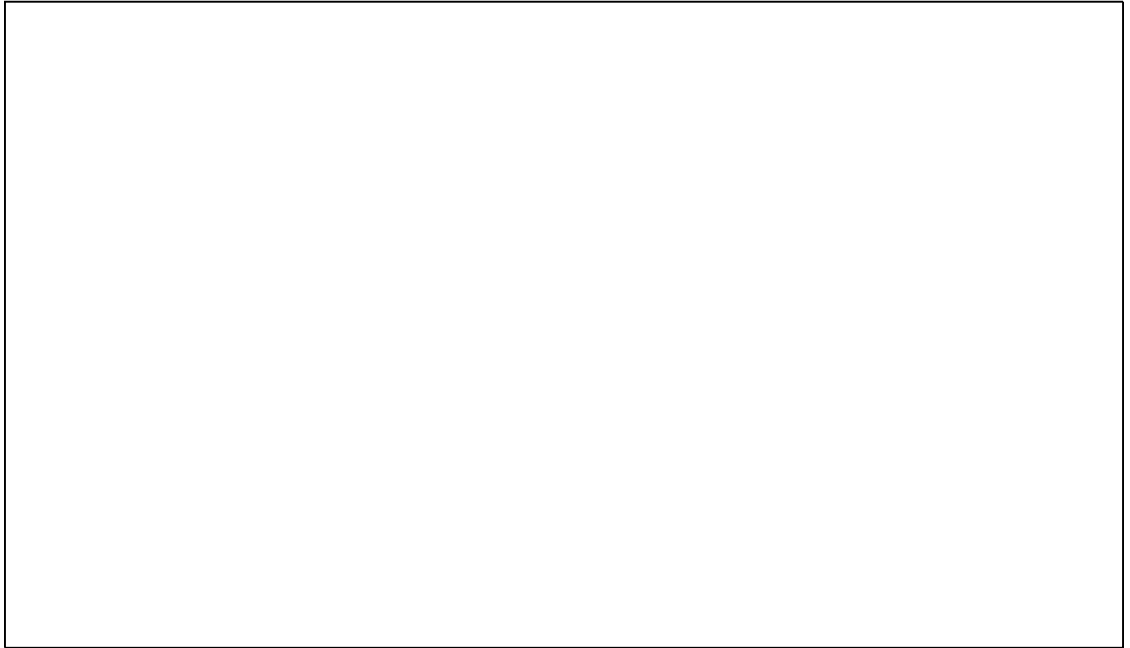
Reference Value = 0.067 A/m; Power Drift = 0.033 dB

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


Peak H-field in A/m

Grid 1 0.371 M4	Grid 2 0.270 M4	Grid 3 0.176 M4
Grid 4 0.333 M4	Grid 5 0.238 M4	Grid 6 0.151 M4
Grid 7 0.375 M4	Grid 8 0.268 M4	Grid 9 0.160 M4

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0 dB = 0.375A/m

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Date/Time: 1/12/2011 10:10:29 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.085 A/m; Power Drift = -0.069 dB

Maximum value of Total (measured) = 0.157 A/m

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 = 0.347 A/m

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Probe Modulation Factor = 2.87


Device Reference Point: 0.000, 0.000, -6.30 mm

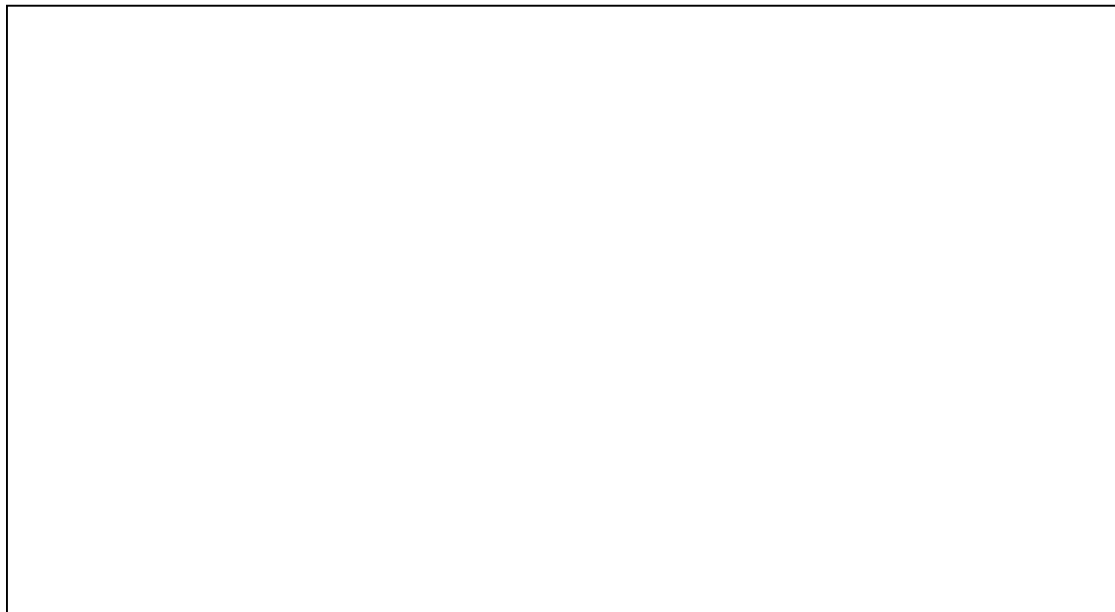
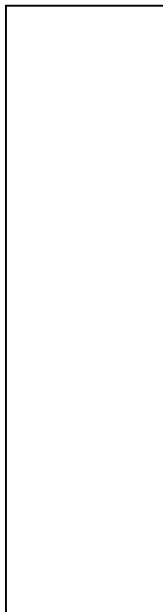
Reference Value = 0.085 A/m; Power Drift = -0.069 dB

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


Peak H-field in A/m

Grid 1 0.428 M4	Grid 2 0.319 M4	Grid 3 0.198 M4
Grid 4 0.405 M4	Grid 5 0.308 M4	Grid 6 0.200 M4
Grid 7 0.458 M3	Grid 8 0.347 M4	Grid 9 0.225 M4

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0 dB = 0.458A/m

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Date/Time: 1/12/2011 10:17:36 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan_Telecoil

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.084 A/m; Power Drift = -0.045 dB

Maximum value of Total (measured) = 0.134 A/m

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 = 0.284 A/m

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Probe Modulation Factor = 2.87


Device Reference Point: 0.000, 0.000, -6.30 mm

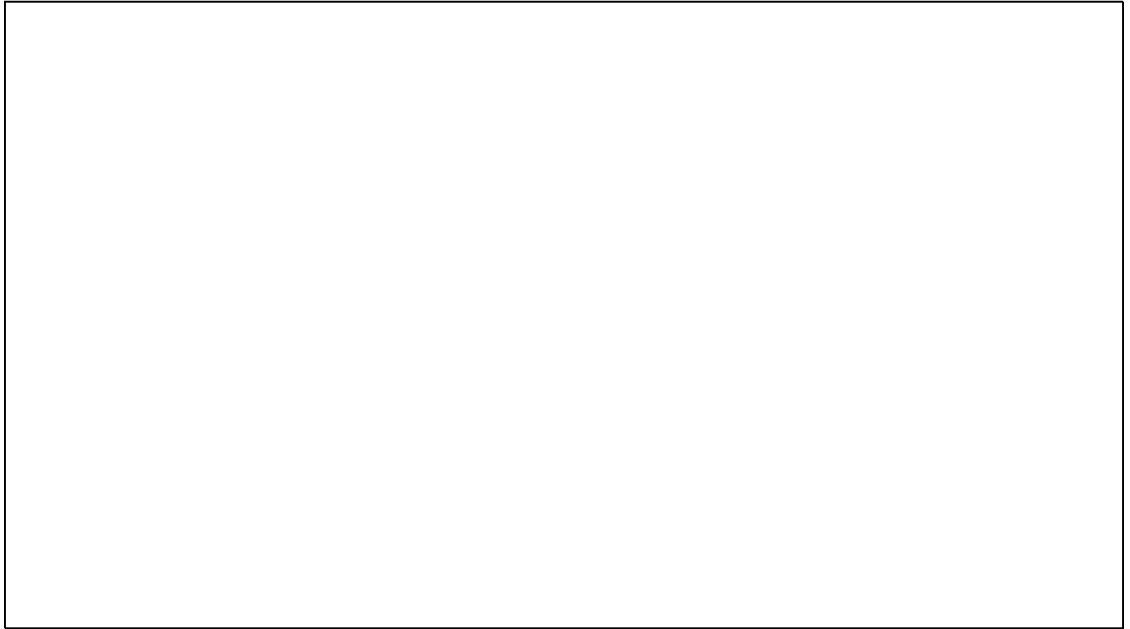
Reference Value = 0.084 A/m; Power Drift = -0.045 dB

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


Peak H-field in A/m

Grid 1 0.392 M4	Grid 2 0.284 M4	Grid 3 0.174 M4
Grid 4 0.390 M4	Grid 5 0.281 M4	Grid 6 0.168 M4
Grid 7 0.379 M4	Grid 8 0.279 M4	Grid 9 0.172 M4

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0 dB = 0.392A/m

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Date/Time: 1/12/2011 8:34:54 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_low_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 826.4 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.050 A/m; Power Drift = 0.024 dB

Maximum value of Total (measured) = 0.100 A/m

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 = 0.071 A/m

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Probe Modulation Factor = 0.980


Device Reference Point: 0.000, 0.000, -6.30 mm

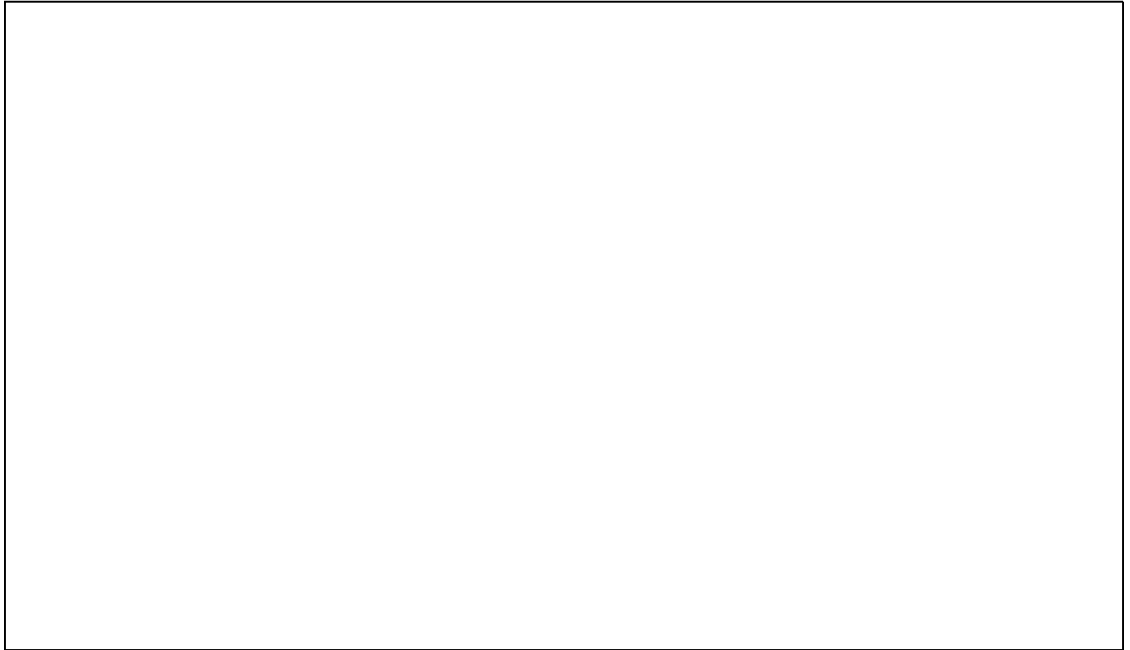
Reference Value = 0.050 A/m; Power Drift = 0.024 dB

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


Peak H-field in A/m

Grid 1 0.098 M4	Grid 2 0.071 M4	Grid 3 0.044 M4
Grid 4 0.085 M4	Grid 5 0.063 M4	Grid 6 0.038 M4
Grid 7 0.095 M4	Grid 8 0.069 M4	Grid 9 0.042 M4

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0 dB = 0.098A/m

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Date/Time: 1/12/2011 8:40:35 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_mid_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.054 A/m; Power Drift = 0.242 dB

Maximum value of Total (measured) = 0.105 A/m

**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 = 0.076 A/m

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Probe Modulation Factor = 0.980


Device Reference Point: 0.000, 0.000, -6.30 mm

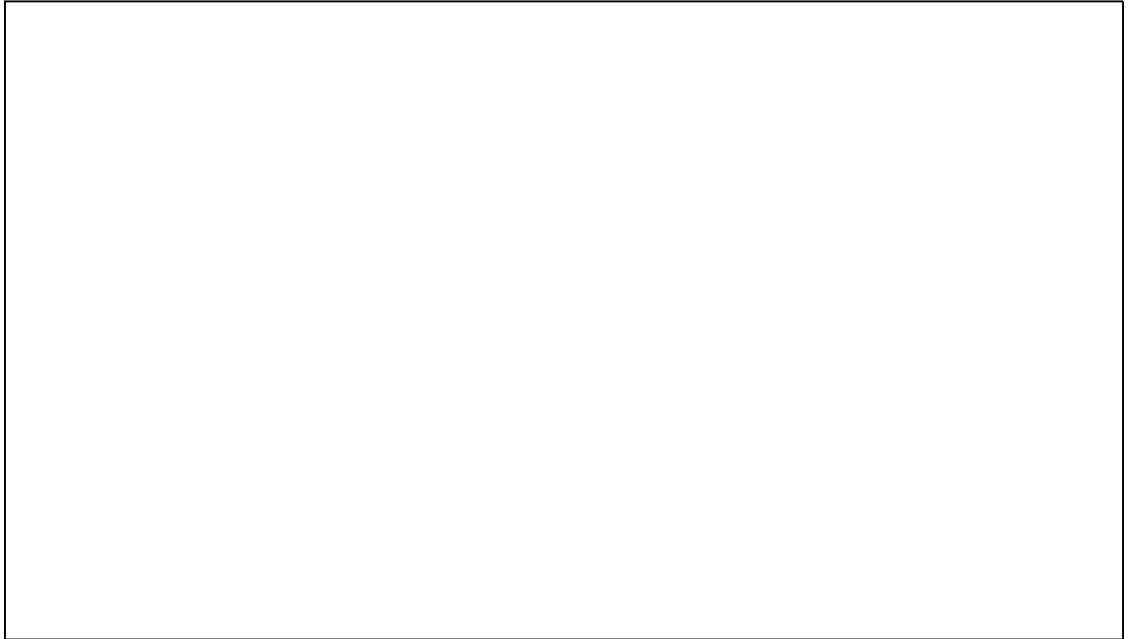
Reference Value = 0.054 A/m; Power Drift = 0.242 dB

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


Peak H-field in A/m

Grid 1 0.103 M4	Grid 2 0.076 M4	Grid 3 0.049 M4
Grid 4 0.089 M4	Grid 5 0.067 M4	Grid 6 0.042 M4
Grid 7 0.102 M4	Grid 8 0.074 M4	Grid 9 0.045 M4

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0 dB = 0.103A/m

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Date/Time: 1/12/2011 8:45:24 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_high_chan

DUT: BlackBerry Smartphone

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.069 A/m; Power Drift = 0.058 dB

Maximum value of Total (measured) = 0.126 A/m

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 = 0.094 A/m

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Probe Modulation Factor = 0.980


Device Reference Point: 0.000, 0.000, -6.30 mm

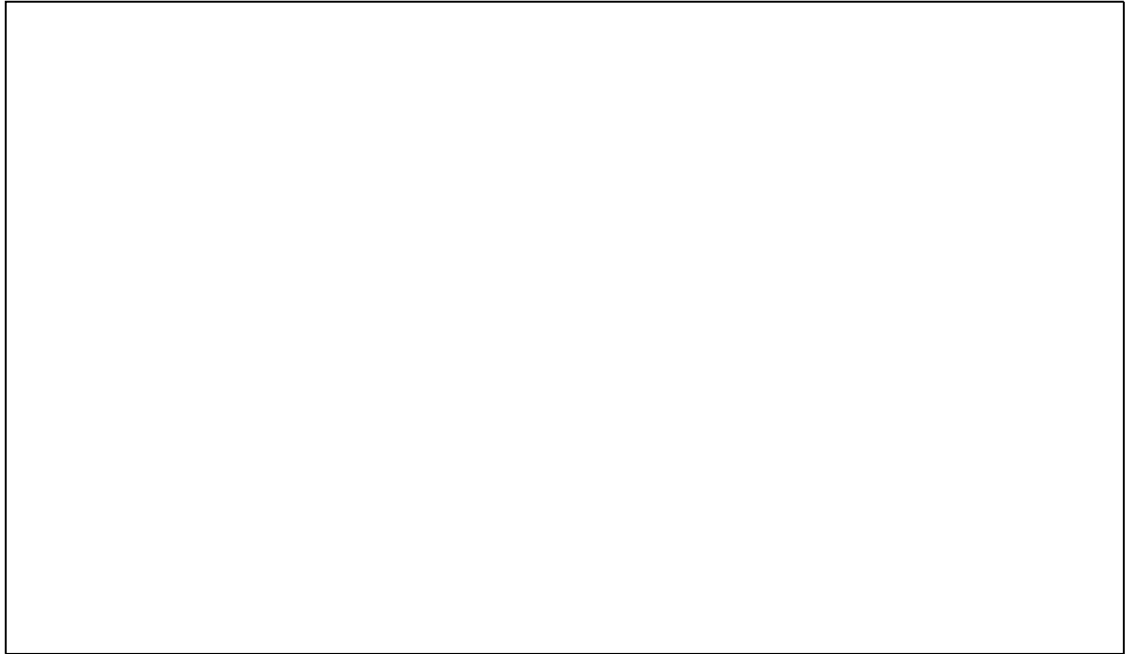
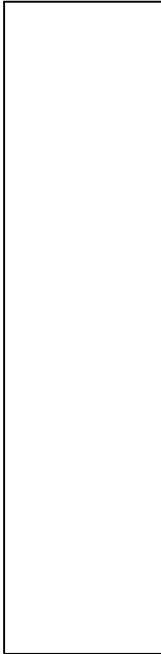
Reference Value = 0.069 A/m; Power Drift = 0.058 dB

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


Peak H-field in A/m

Grid 1 0.118 M4	Grid 2 0.090 M4	Grid 3 0.058 M4
Grid 4 0.108 M4	Grid 5 0.083 M4	Grid 6 0.062 M4
Grid 7 0.123 M4	Grid 8 0.094 M4	Grid 9 0.060 M4

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0 dB = 0.123A/m

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Date/Time: 1/12/2011 8:53:19 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_high_chan_Telecoil

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.069 A/m; Power Drift = 0.052 dB

Maximum value of Total (measured) = 0.112 A/m

**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 = 0.080 A/m

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Probe Modulation Factor = 0.980


Device Reference Point: 0.000, 0.000, -6.30 mm

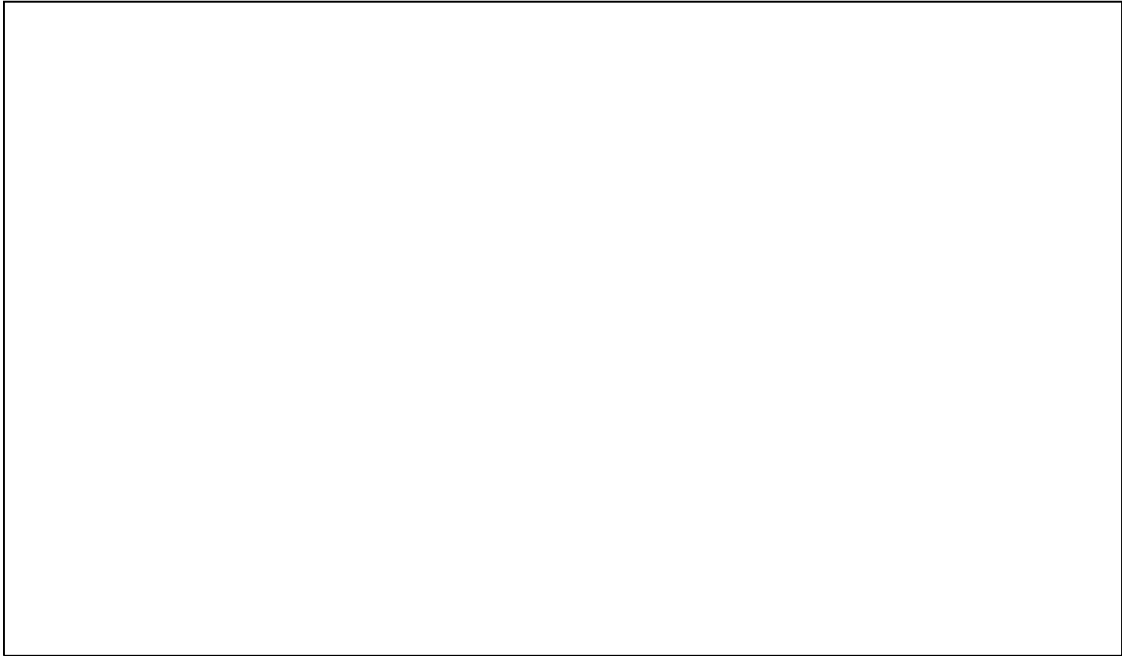
Reference Value = 0.069 A/m; Power Drift = 0.052 dB

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


Peak H-field in A/m

Grid 1 0.110 M4	Grid 2 0.080 M4	Grid 3 0.051 M4
Grid 4 0.108 M4	Grid 5 0.078 M4	Grid 6 0.049 M4
Grid 7 0.102 M4	Grid 8 0.075 M4	Grid 9 0.047 M4

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW



0 dB = 0.110A/m

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 1/12/2011 9:29:57 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_low_chan

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.095 A/m; Power Drift = -0.072 dB

Maximum value of Total (measured) = 0.093 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Maximum value of peak Total field = 0.240 A/m

Probe Modulation Factor = 2.76


Device Reference Point: 0.000, 0.000, -6.30 mm

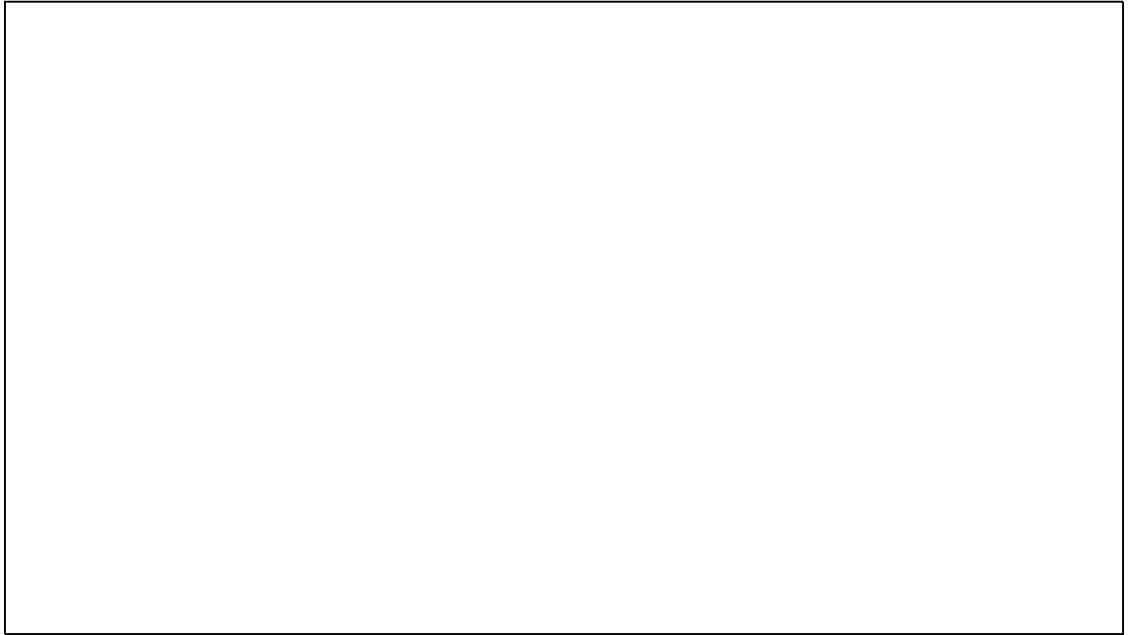
Reference Value = 0.095 A/m; Power Drift = -0.072 dB

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


Peak H-field in A/m

Grid 1 0.256 M2	Grid 2 0.234 M3	Grid 3 0.235 M3
Grid 4 0.180 M3	Grid 5 0.239 M3	Grid 6 0.240 M3
Grid 7 0.165 M3	Grid 8 0.224 M3	Grid 9 0.224 M3

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW



0 dB = 0.256A/m

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Date/Time: 1/12/2011 9:35:22 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_mid_chan

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.089 A/m; Power Drift = -0.113 dB

Maximum value of Total (measured) = 0.094 A/m

**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 = 0.221 A/m

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Probe Modulation Factor = 2.76


Device Reference Point: 0.000, 0.000, -6.30 mm

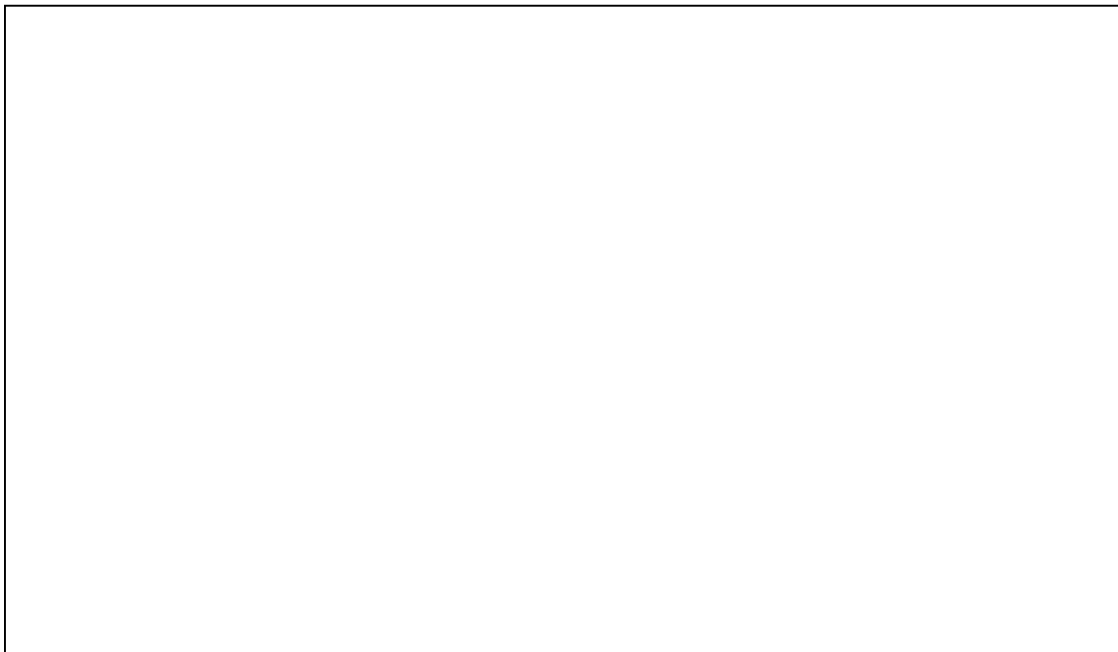
Reference Value = 0.089 A/m; Power Drift = -0.113 dB

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


Peak H-field in A/m

Grid 1 0.259 M2	Grid 2 0.232 M3	Grid 3 0.219 M3
Grid 4 0.182 M3	Grid 5 0.221 M3	Grid 6 0.221 M3
Grid 7 0.151 M3	Grid 8 0.209 M3	Grid 9 0.209 M3

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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/ REN71UW		250 (342)
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0 dB = 0.259A/m

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Date/Time: 1/12/2011 9:47:45 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_high_chan

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.076 A/m; Power Drift = -0.481 dB

Maximum value of Total (measured) = 0.098 A/m

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 = 0.190 A/m

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Probe Modulation Factor = 2.76


Device Reference Point: 0.000, 0.000, -6.30 mm

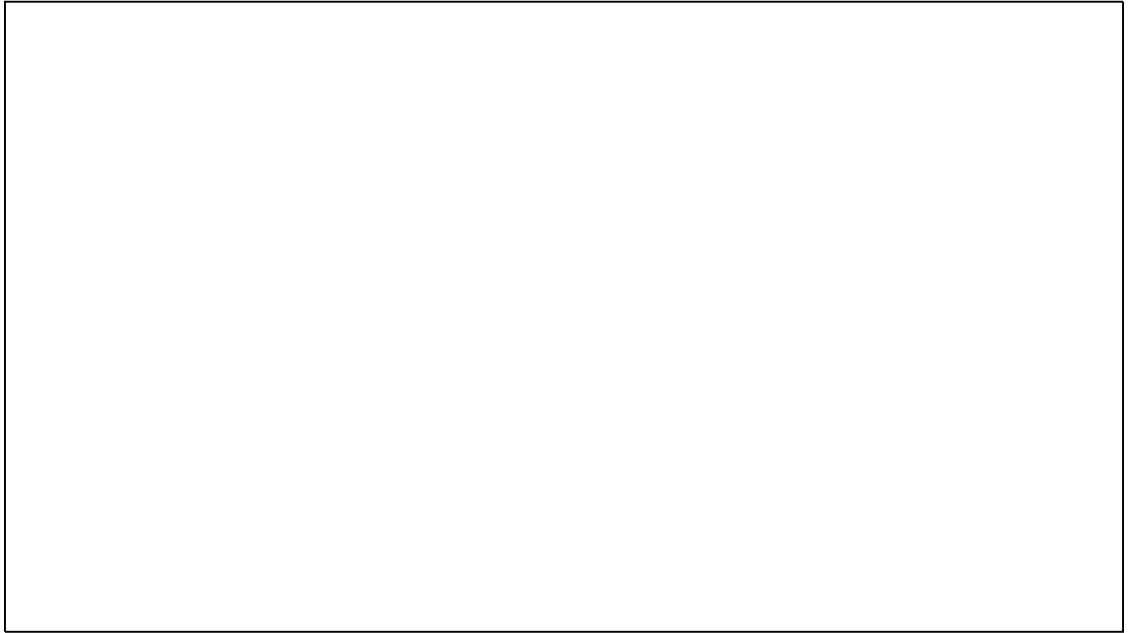
Reference Value = 0.076 A/m; Power Drift = -0.481 dB

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


Peak H-field in A/m

Grid 1 0.271 M2	Grid 2 0.246 M3	Grid 3 0.190 M3
Grid 4 0.175 M3	Grid 5 0.190 M3	Grid 6 0.190 M3
Grid 7 0.129 M4	Grid 8 0.178 M3	Grid 9 0.178 M3

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0 dB = 0.271A/m

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Date/Time: 1/12/2011 9:52:49 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_low_chan_Telecoil

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.096 A/m; Power Drift = 0.026 dB

Maximum value of Total (measured) = 0.099 A/m

**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 = 0.241 A/m

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Probe Modulation Factor = 2.76


Device Reference Point: 0.000, 0.000, -6.30 mm

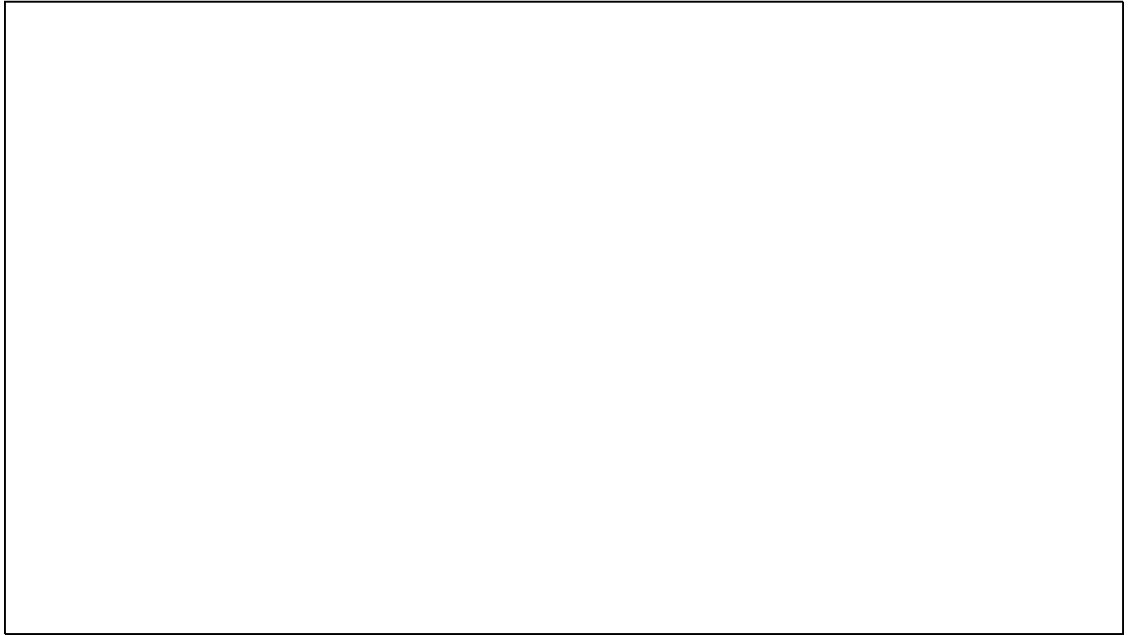
Reference Value = 0.096 A/m; Power Drift = 0.026 dB

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


Peak H-field in A/m

Grid 1 0.275 M2	Grid 2 0.209 M3	Grid 3 0.200 M3
Grid 4 0.226 M3	Grid 5 0.241 M3	Grid 6 0.238 M3
Grid 7 0.202 M3	Grid 8 0.241 M3	Grid 9 0.239 M3

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0 dB = 0.275A/m

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Date/Time: 1/12/2011 9:00:01 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_low_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm


Probe Modulation Factor = 1.00

Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.113 A/m; Power Drift = -0.270 dB

Maximum value of Total (measured) = 0.140 A/m

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (101x101x1):** Measurement grid: dx=5mm, dy=5mm

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Maximum value of peak Total field = 0.099 A/m

Probe Modulation Factor = 0.890


Device Reference Point: 0.000, 0.000, -6.30 mm

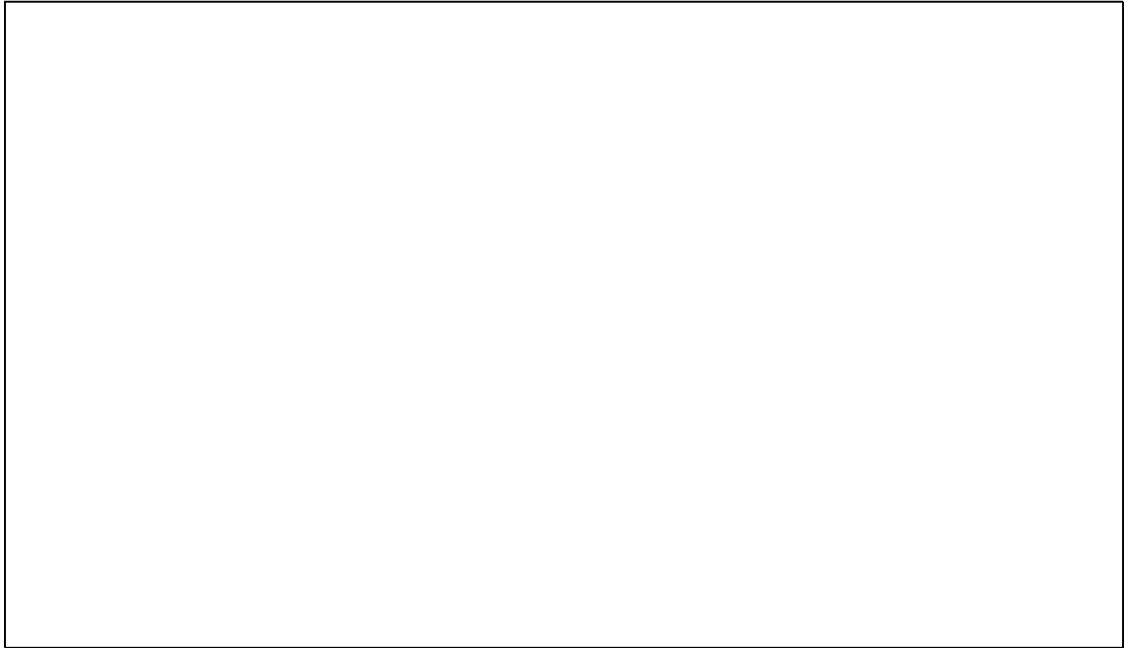
Reference Value = 0.113 A/m; Power Drift = -0.270 dB

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


Peak H-field in A/m

Grid 1 0.124 M4	Grid 2 0.109 M4	Grid 3 0.097 M4
Grid 4 0.081 M4	Grid 5 0.098 M4	Grid 6 0.099 M4
Grid 7 0.065 M4	Grid 8 0.087 M4	Grid 9 0.087 M4

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0 dB = 0.124A/m

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Date/Time: 1/12/2011 9:05:18 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_mid_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1880 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.097 A/m; Power Drift = -0.054 dB

Maximum value of Total (measured) = 0.129 A/m

**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 = 0.087 A/m

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Probe Modulation Factor = 0.890


Device Reference Point: 0.000, 0.000, -6.30 mm

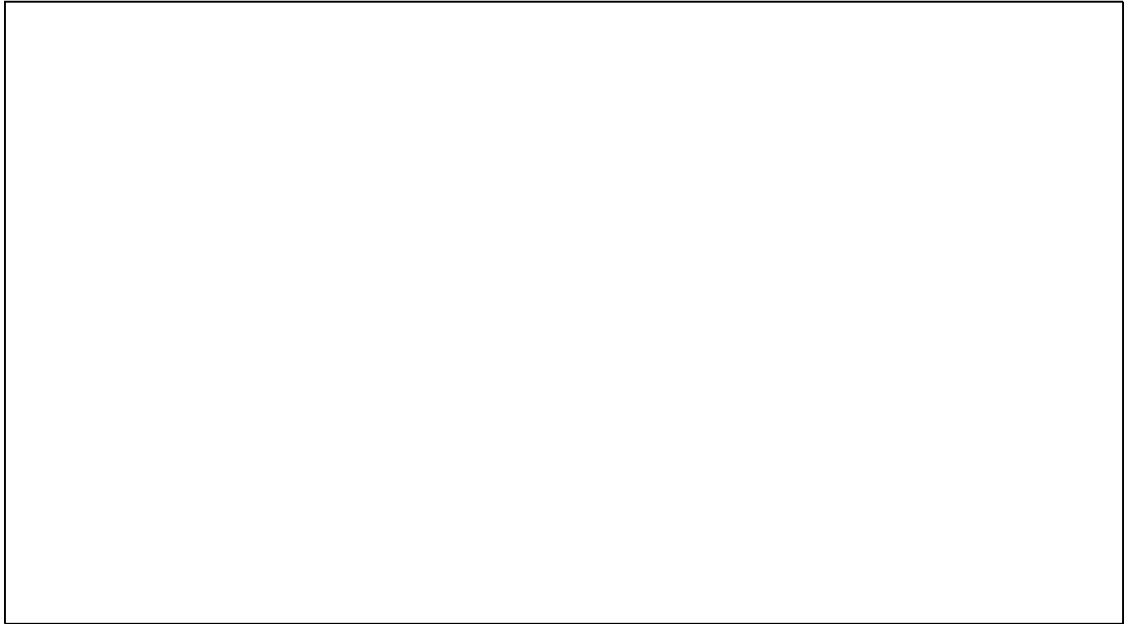
Reference Value = 0.097 A/m; Power Drift = -0.054 dB

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


Peak H-field in A/m

Grid 1 0.114 M4	Grid 2 0.107 M4	Grid 3 0.089 M4
Grid 4 0.077 M4	Grid 5 0.087 M4	Grid 6 0.087 M4
Grid 7 0.054 M4	Grid 8 0.075 M4	Grid 9 0.075 M4

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0 dB = 0.114A/m

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Date/Time: 1/12/2011 9:12:19 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_high_chan

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.106 A/m; Power Drift = 0.053 dB

Maximum value of Total (measured) = 0.148 A/m

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 = 0.092 A/m

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Probe Modulation Factor = 0.890


Device Reference Point: 0.000, 0.000, -6.30 mm

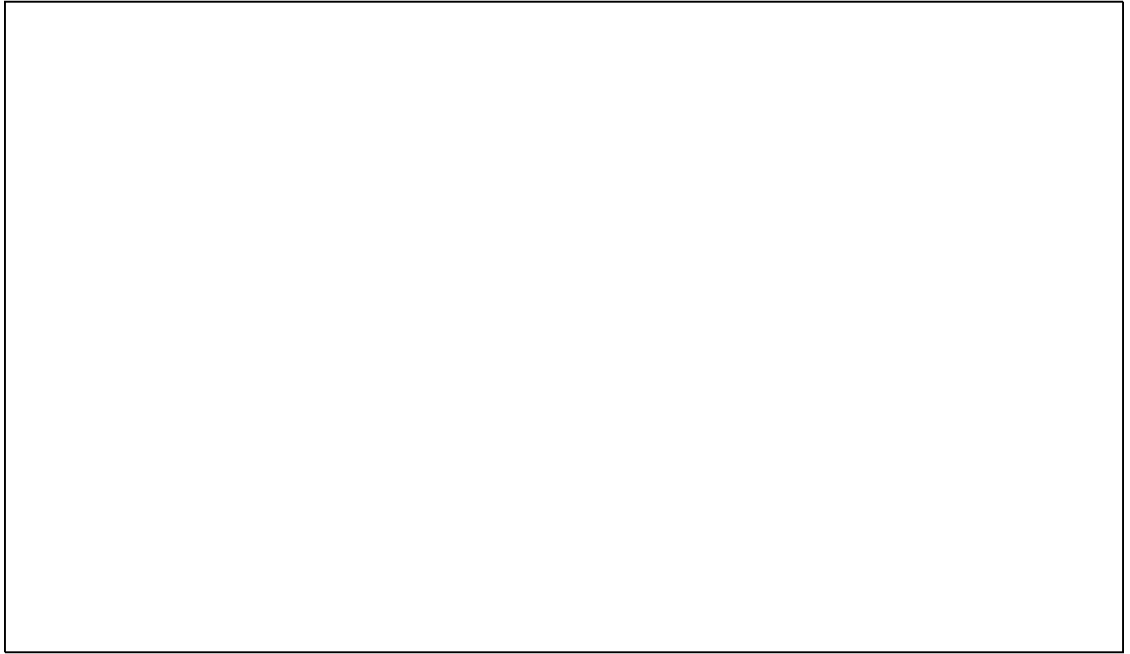
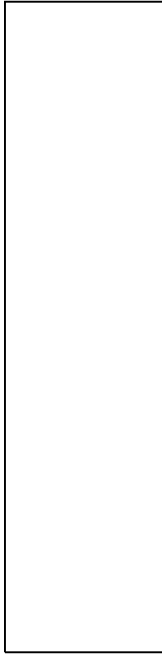
Reference Value = 0.106 A/m; Power Drift = 0.053 dB

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


Peak H-field in A/m

Grid 1 0.131 M4	Grid 2 0.118 M4	Grid 3 0.096 M4
Grid 4 0.087 M4	Grid 5 0.092 M4	Grid 6 0.092 M4
Grid 7 0.059 M4	Grid 8 0.079 M4	Grid 9 0.081 M4

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0 dB = 0.131A/m

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Date/Time: 1/12/2011 9:18:49 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_low_chan_Telecoil

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.109 A/m; Power Drift = 0.083 dB

Maximum value of Total (measured) = 0.151 A/m

**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 = 0.099 A/m

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Probe Modulation Factor = 0.890


Device Reference Point: 0.000, 0.000, -6.30 mm

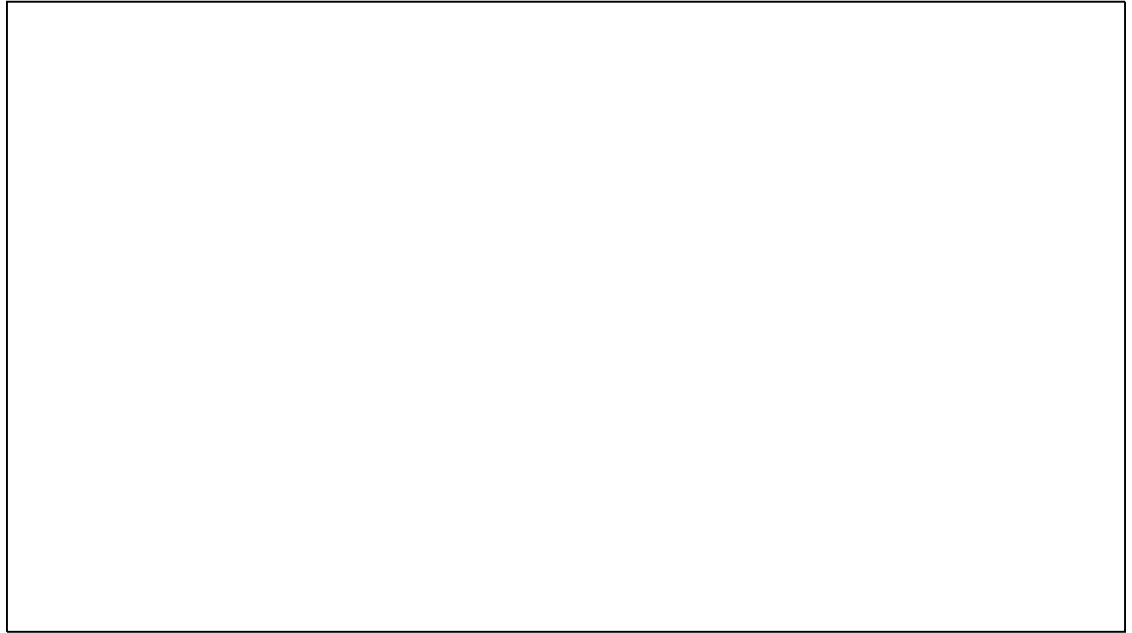
Reference Value = 0.109 A/m; Power Drift = 0.083 dB

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


Peak H-field in A/m

Grid 1 0.135 M4	Grid 2 0.107 M4	Grid 3 0.090 M4
Grid 4 0.110 M4	Grid 5 0.099 M4	Grid 6 0.096 M4
Grid 7 0.082 M4	Grid 8 0.097 M4	Grid 9 0.096 M4

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0 dB = 0.135A/m

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Date/Time: 1/12/2011 5:23:33 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_low_chan_Slide_Open

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.053 A/m; Power Drift = -0.101 dB

Maximum value of Total (measured) = 0.108 A/m

**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 = 0.229 A/m

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Probe Modulation Factor = 2.87


Device Reference Point: 0.000, 0.000, -6.30 mm

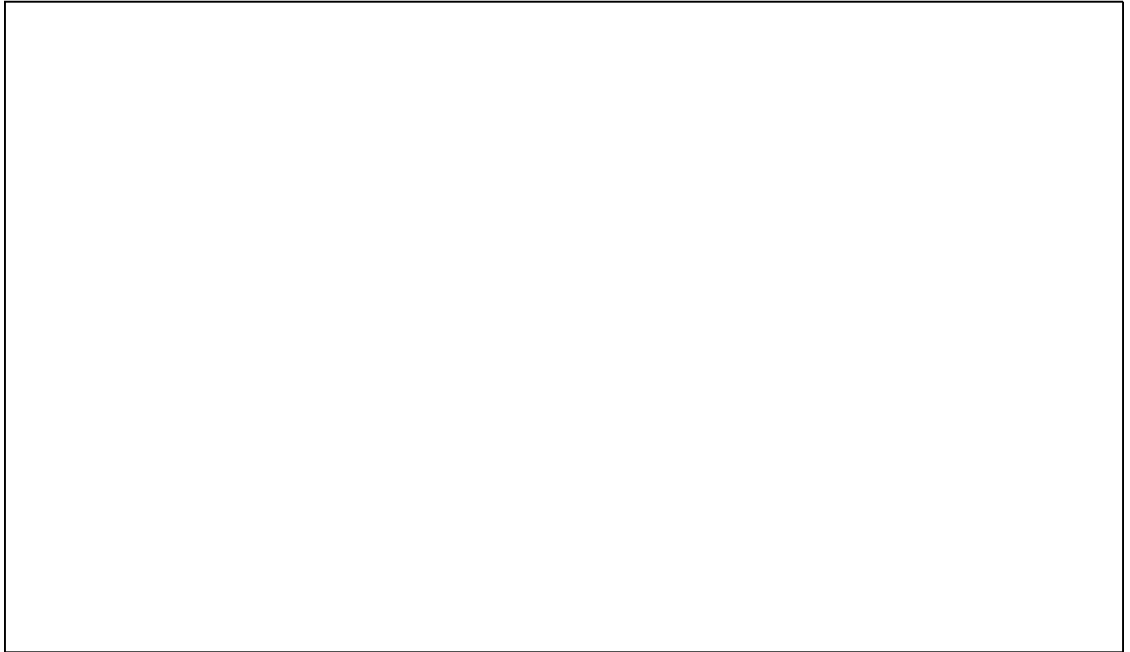
Reference Value = 0.053 A/m; Power Drift = -0.101 dB

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


Peak H-field in A/m

Grid 1 0.305 M4	Grid 2 0.229 M4	Grid 3 0.140 M4
Grid 4 0.286 M4	Grid 5 0.202 M4	Grid 6 0.118 M4
Grid 7 0.316 M4	Grid 8 0.222 M4	Grid 9 0.133 M4

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0 dB = 0.316A/m

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Date/Time: 1/12/2011 5:29:58 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_mid_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: GSM 850; Frequency: 836.8 MHz; Duty Cycle: 1:8.3

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.060 A/m; Power Drift = -0.414 dB

Maximum value of Total (measured) = 0.123 A/m

**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 = 0.255 A/m

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Probe Modulation Factor = 2.87


Device Reference Point: 0.000, 0.000, -6.30 mm

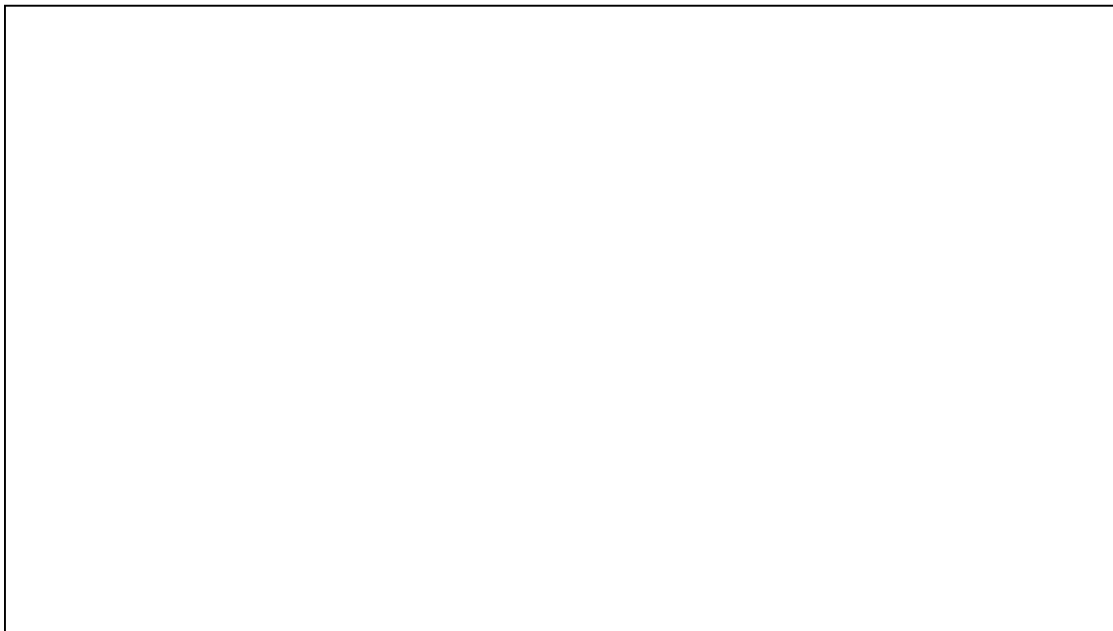
Reference Value = 0.060 A/m; Power Drift = -0.414 dB

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


Peak H-field in A/m

Grid 1 0.359 M4	Grid 2 0.255 M4	Grid 3 0.158 M4
Grid 4 0.319 M4	Grid 5 0.225 M4	Grid 6 0.128 M4
Grid 7 0.354 M4	Grid 8 0.248 M4	Grid 9 0.139 M4

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0 dB = 0.359A/m

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Date/Time: 1/12/2011 5:34:59 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan_Slide_Open

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.076 A/m; Power Drift = -0.119 dB

Maximum value of Total (measured) = 0.148 A/m

**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 = 0.317 A/m

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Probe Modulation Factor = 2.87


Device Reference Point: 0.000, 0.000, -6.30 mm

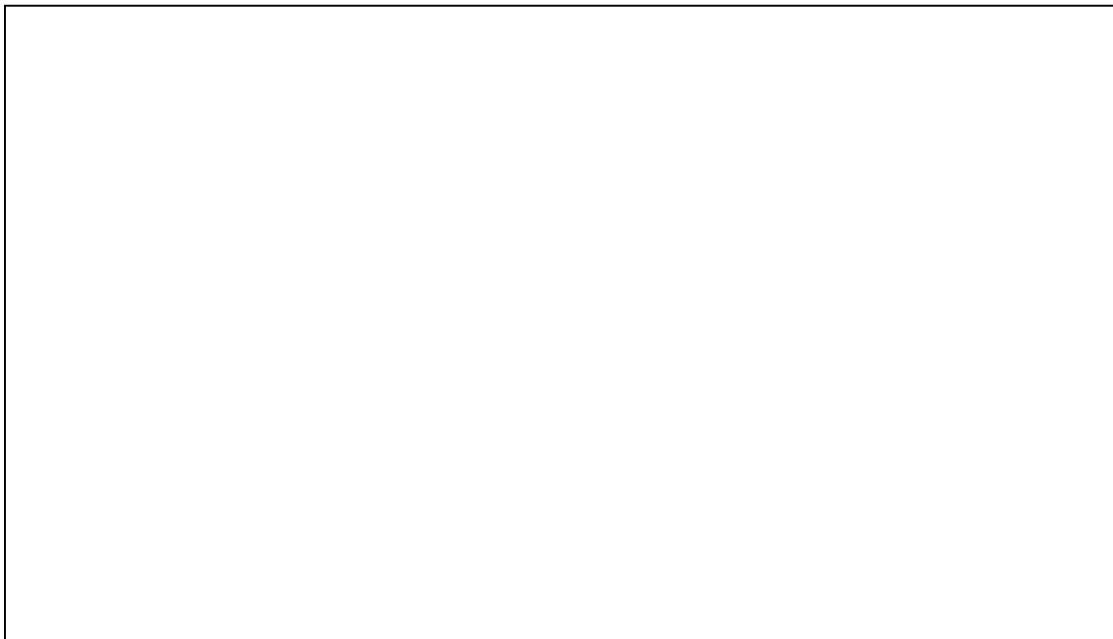
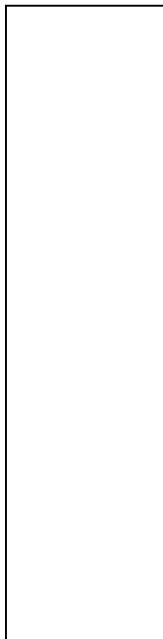
Reference Value = 0.076 A/m; Power Drift = -0.119 dB

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


Peak H-field in A/m

Grid 1 0.399 M4	Grid 2 0.290 M4	Grid 3 0.177 M4
Grid 4 0.382 M4	Grid 5 0.282 M4	Grid 6 0.181 M4
Grid 7 0.432 M4	Grid 8 0.317 M4	Grid 9 0.208 M4

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0 dB = 0.432A/m

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Date/Time: 1/12/2011 5:40:25 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM850_high_chan_Slide_Open_Telecoil

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.074 A/m; Power Drift = -0.077 dB

Maximum value of Total (measured) = 0.130 A/m

**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 = 0.268 A/m

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Probe Modulation Factor = 2.87


Device Reference Point: 0.000, 0.000, -6.30 mm

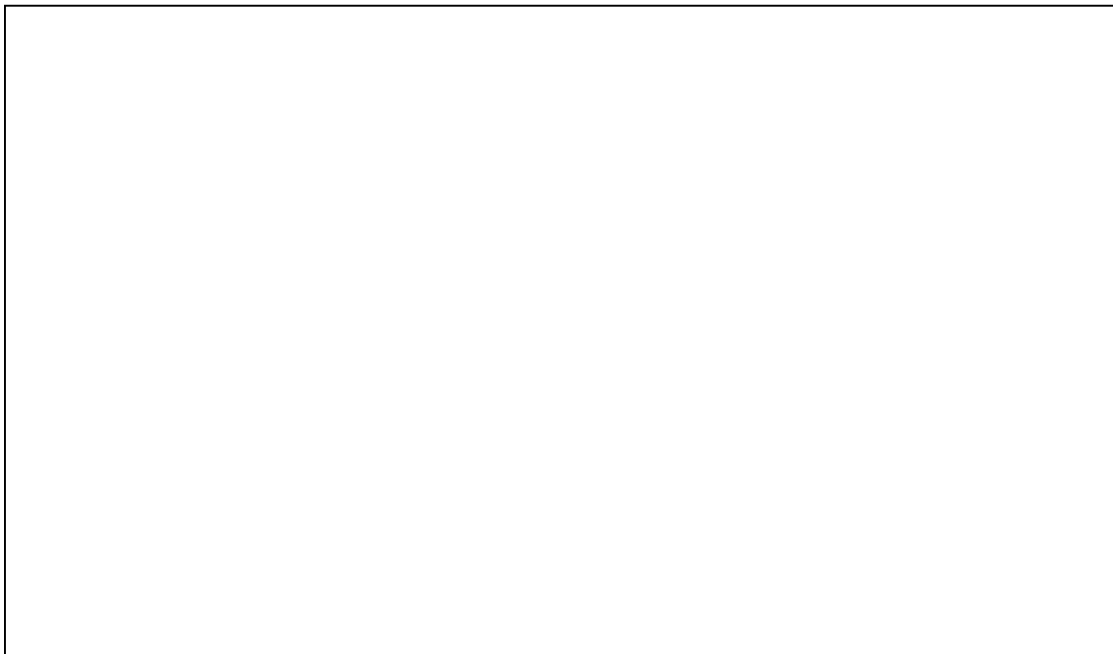
Reference Value = 0.074 A/m; Power Drift = -0.077 dB

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


Peak H-field in A/m

Grid 1 0.378 M4	Grid 2 0.268 M4	Grid 3 0.160 M4
Grid 4 0.369 M4	Grid 5 0.262 M4	Grid 6 0.153 M4
Grid 7 0.372 M4	Grid 8 0.268 M4	Grid 9 0.171 M4

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0 dB = 0.378A/m

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Date/Time: 1/12/2011 8:13:07 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_low_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 826.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing

Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.050 A/m; Power Drift = 0.212 dB

Maximum value of Total (measured) = 0.103 A/m

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing

Aid Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

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Maximum value of peak Total field = 0.073 A/m

Probe Modulation Factor = 0.980


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.050 A/m; Power Drift = 0.212 dB

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


Peak H-field in A/m

Grid 1 0.101 M4	Grid 2 0.073 M4	Grid 3 0.045 M4
Grid 4 0.090 M4	Grid 5 0.065 M4	Grid 6 0.038 M4
Grid 7 0.100 M4	Grid 8 0.071 M4	Grid 9 0.043 M4

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0 dB = 0.101A/m

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Date/Time: 1/12/2011 8:18:39 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_mid_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 836.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.050 A/m; Power Drift = -0.037 dB

Maximum value of Total (measured) = 0.103 A/m

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 = 0.074 A/m

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Probe Modulation Factor = 0.980


Device Reference Point: 0.000, 0.000, -6.30 mm

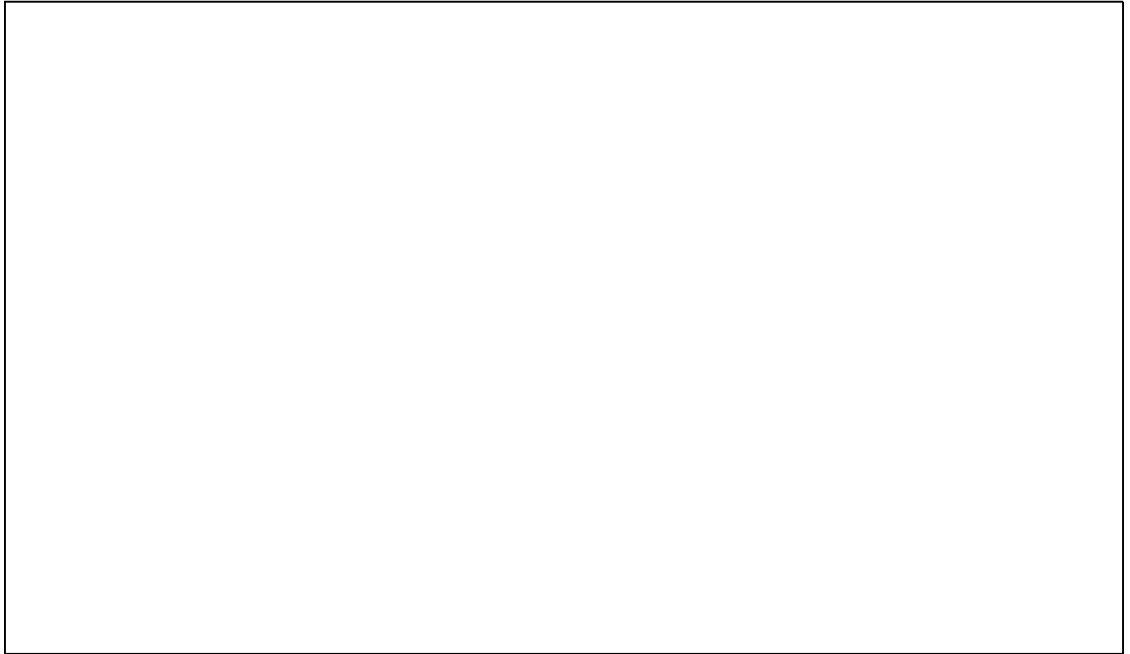
Reference Value = 0.050 A/m; Power Drift = -0.037 dB

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


Peak H-field in A/m

Grid 1 0.101 M4	Grid 2 0.074 M4	Grid 3 0.047 M4
Grid 4 0.090 M4	Grid 5 0.065 M4	Grid 6 0.038 M4
Grid 7 0.100 M4	Grid 8 0.070 M4	Grid 9 0.041 M4

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0 dB = 0.101A/m

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Date/Time: 1/12/2011 8:23:21 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_high_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 846.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.065 A/m; Power Drift = 0.173 dB

Maximum value of Total (measured) = 0.129 A/m

**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 = 0.095 A/m

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Probe Modulation Factor = 0.980


Device Reference Point: 0.000, 0.000, -6.30 mm

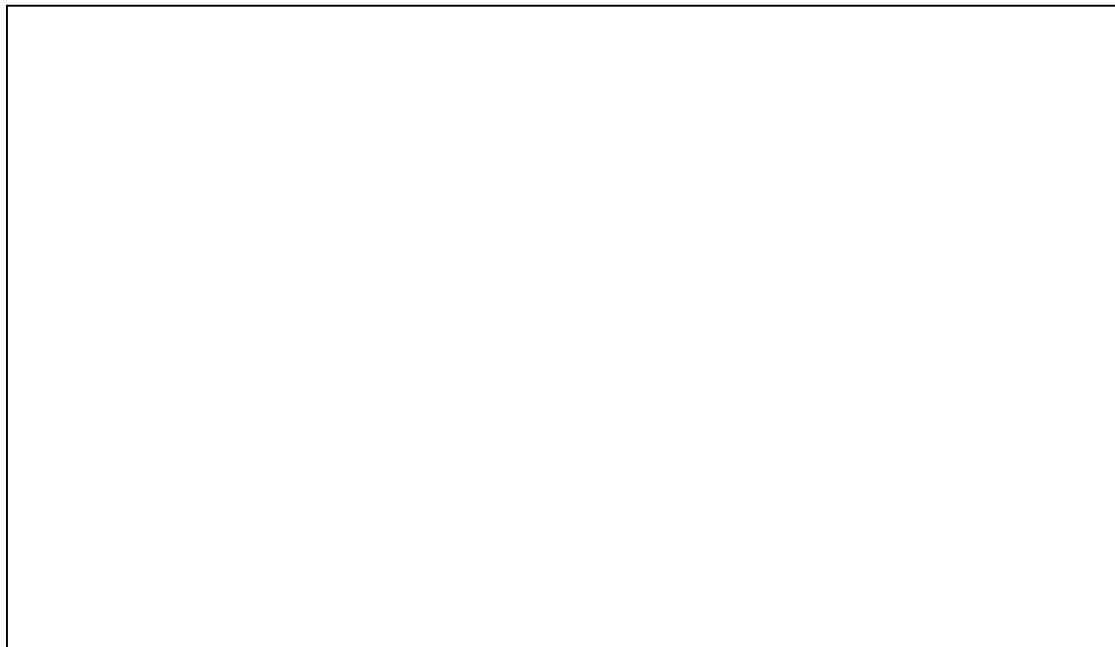
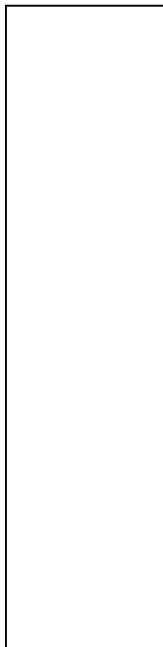
Reference Value = 0.065 A/m; Power Drift = 0.173 dB

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


Peak H-field in A/m

Grid 1 0.119 M4	Grid 2 0.090 M4	Grid 3 0.056 M4
Grid 4 0.108 M4	Grid 5 0.091 M4	Grid 6 0.060 M4
Grid 7 0.127 M4	Grid 8 0.095 M4	Grid 9 0.057 M4

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0 dB = 0.127A/m

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Date/Time: 1/12/2011 8:28:14 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_V_high_chan_Slide_Open_Telecoil

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD V; Frequency: 846.6 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.066 A/m; Power Drift = -0.054 dB

Maximum value of Total (measured) = 0.117 A/m

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 = 0.084 A/m

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Probe Modulation Factor = 0.980


Device Reference Point: 0.000, 0.000, -6.30 mm

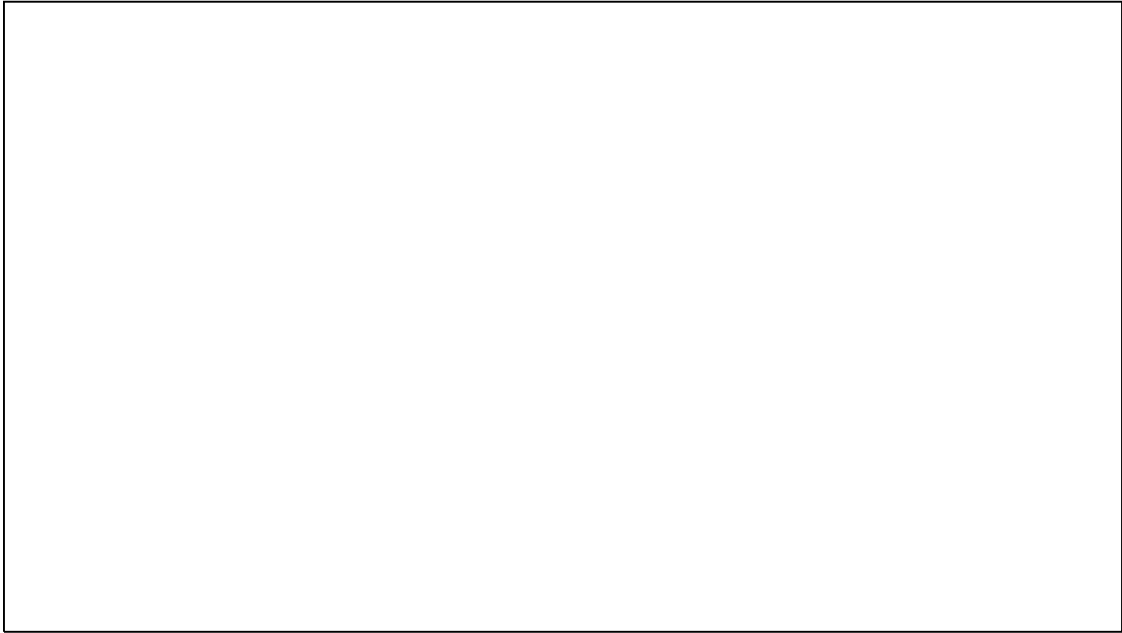
Reference Value = 0.066 A/m; Power Drift = -0.054 dB

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


Peak H-field in A/m

Grid 1 0.115 M4	Grid 2 0.084 M4	Grid 3 0.054 M4
Grid 4 0.111 M4	Grid 5 0.080 M4	Grid 6 0.049 M4
Grid 7 0.109 M4	Grid 8 0.079 M4	Grid 9 0.056 M4

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0 dB = 0.115A/m

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Date/Time: 1/12/2011 5:53:57 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_low_chan_Slide_Open

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.069 A/m; Power Drift = -0.029 dB

Maximum value of Total (measured) = 0.066 A/m

**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 = 0.179 A/m

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Probe Modulation Factor = 2.76


Device Reference Point: 0.000, 0.000, -6.30 mm

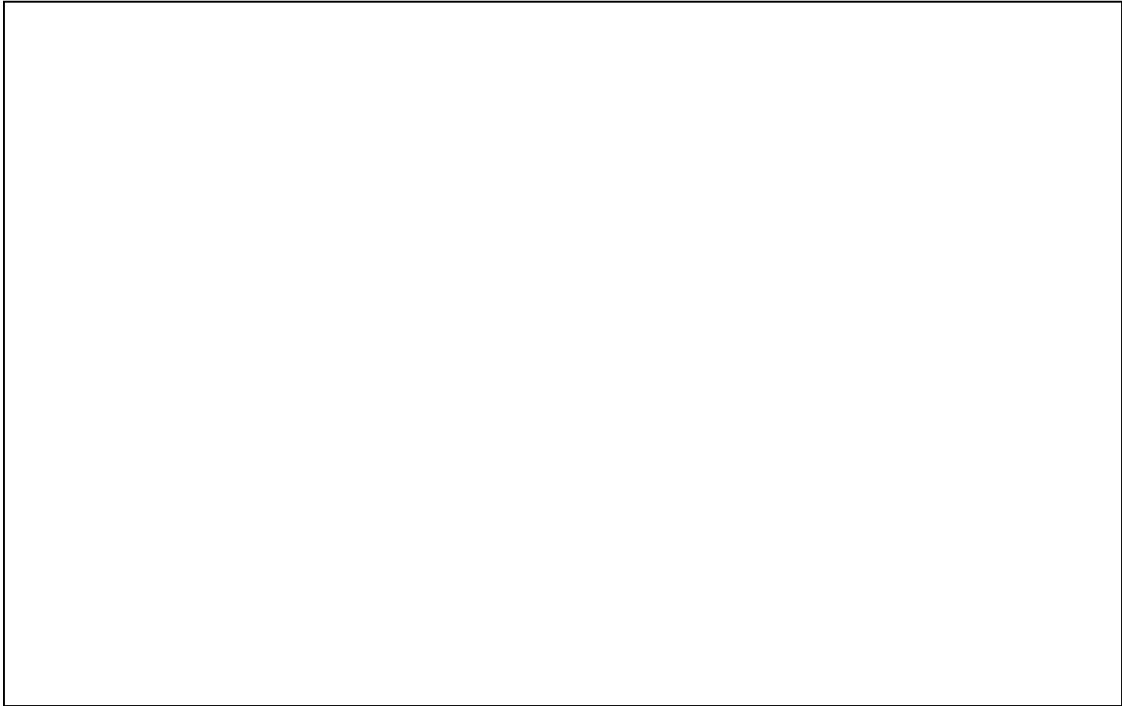
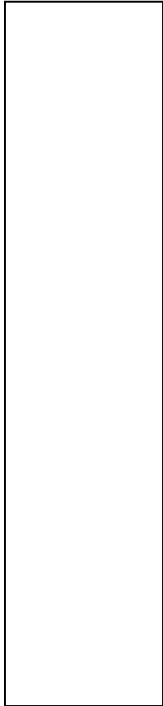
Reference Value = 0.069 A/m; Power Drift = -0.029 dB

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


Peak H-field in A/m

Grid 1 0.168 M3	Grid 2 0.179 M3	Grid 3 0.183 M3
Grid 4 0.137 M4	Grid 5 0.179 M3	Grid 6 0.182 M3
Grid 7 0.179 M3	Grid 8 0.150 M3	Grid 9 0.151 M3

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0 dB = 0.183A/m

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Date/Time: 1/12/2011 5:59:28 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_mid_chan_Slide_Open

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.075 A/m; Power Drift = 0.009 dB

Maximum value of Total (measured) = 0.075 A/m

**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 = 0.196 A/m

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Probe Modulation Factor = 2.76


Device Reference Point: 0.000, 0.000, -6.30 mm

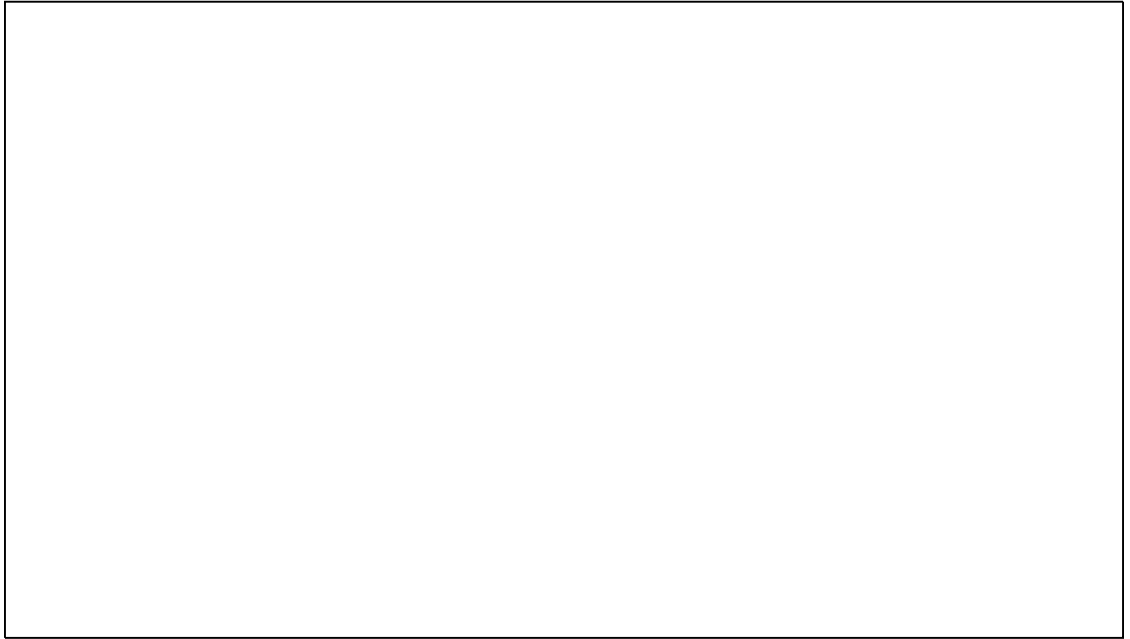
Reference Value = 0.075 A/m; Power Drift = 0.009 dB

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


Peak H-field in A/m

Grid 1 0.207 M3	Grid 2 0.197 M3	Grid 3 0.196 M3
Grid 4 0.169 M3	Grid 5 0.196 M3	Grid 6 0.195 M3
Grid 7 0.138 M4	Grid 8 0.165 M3	Grid 9 0.164 M3

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0 dB = 0.207A/m

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Date/Time: 1/12/2011 6:04:30 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_high_chan_Slide_Open

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing Aid Compatibility Test (11x11x1): Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.071 A/m; Power Drift = -0.056 dB

Maximum value of Total (measured) = 0.081 A/m

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 = 0.185 A/m

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Probe Modulation Factor = 2.76


Device Reference Point: 0.000, 0.000, -6.30 mm

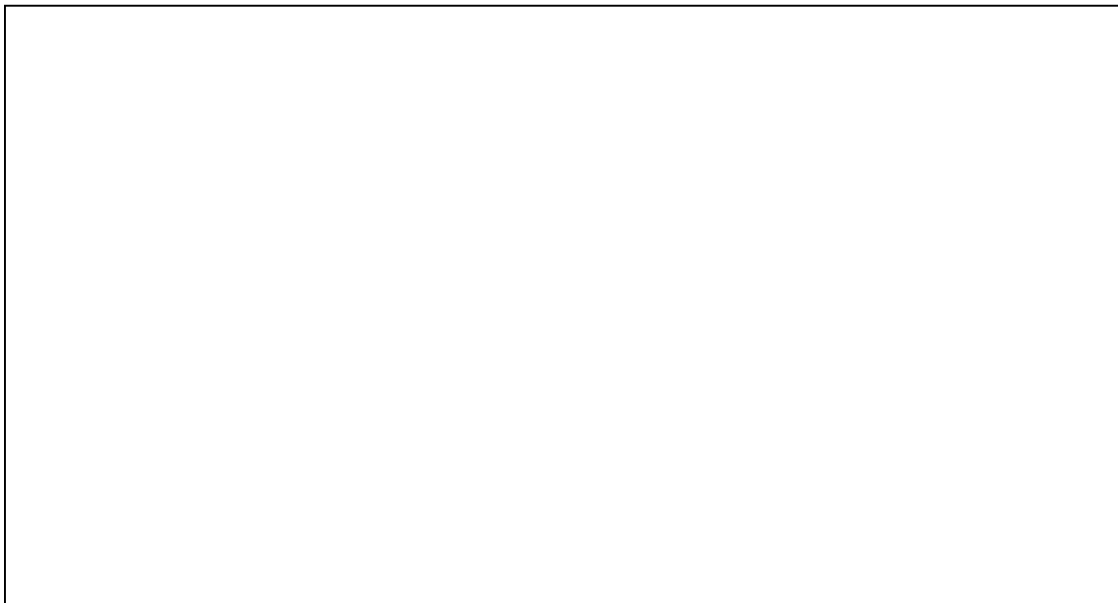
Reference Value = 0.071 A/m; Power Drift = -0.056 dB

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


Peak H-field in A/m

Grid 1 0.222 M3	Grid 2 0.200 M3	Grid 3 0.185 M3
Grid 4 0.161 M3	Grid 5 0.185 M3	Grid 6 0.184 M3
Grid 7 0.136 M4	Grid 8 0.163 M3	Grid 9 0.162 M3

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0 dB = 0.222A/m

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Date/Time: 1/12/2011 6:11:38 PM

Test Laboratory: RIM Testing Services

HAC_H_GSM1900_mid_chan_Slide_Open_Telecoil

DUT: BlackBerry Smartphone;

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: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.074 A/m; Power Drift = 0.034 dB

Maximum value of Total (measured) = 0.081 A/m

**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 = 0.195 A/m

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Probe Modulation Factor = 2.76


Device Reference Point: 0.000, 0.000, -6.30 mm

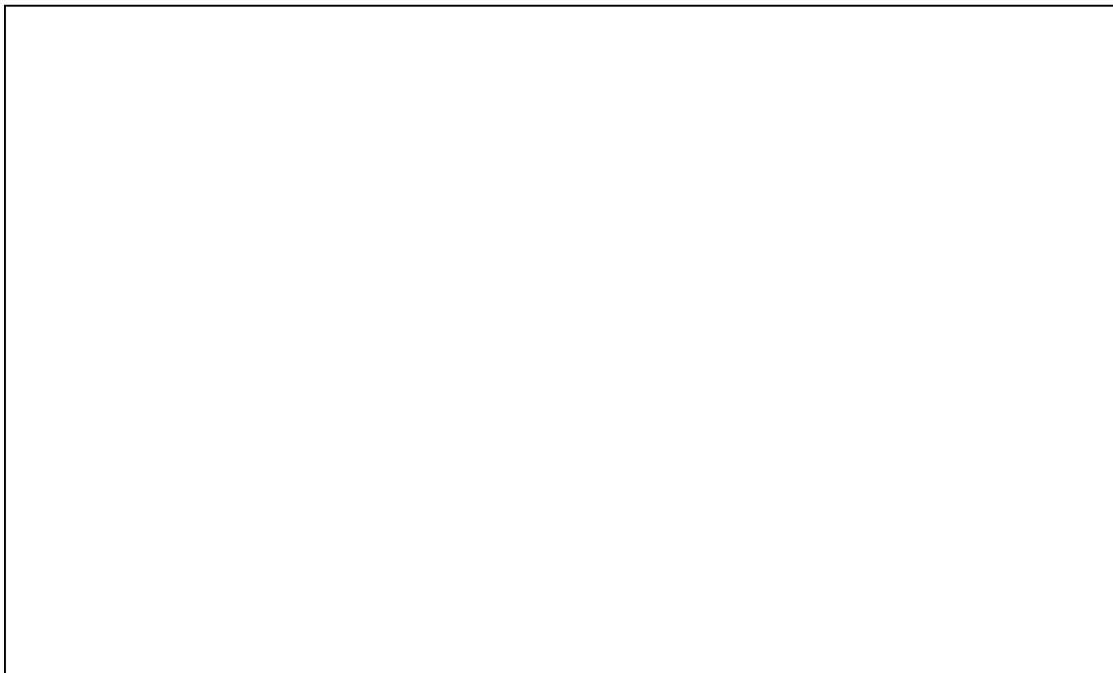
Reference Value = 0.074 A/m; Power Drift = 0.034 dB

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


Peak H-field in A/m

Grid 1 0.224 M3	Grid 2 0.193 M3	Grid 3 0.188 M3
Grid 4 0.181 M3	Grid 5 0.195 M3	Grid 6 0.191 M3
Grid 7 0.162 M3	Grid 8 0.183 M3	Grid 9 0.179 M3

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0 dB = 0.224A/m

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Date/Time: 1/12/2011 6:32:01 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_low_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.098 A/m; Power Drift = -0.696 dB

Maximum value of Total (measured) = 0.109 A/m

**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 = 0.089 A/m

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Probe Modulation Factor = 0.890


Device Reference Point: 0.000, 0.000, -6.30 mm

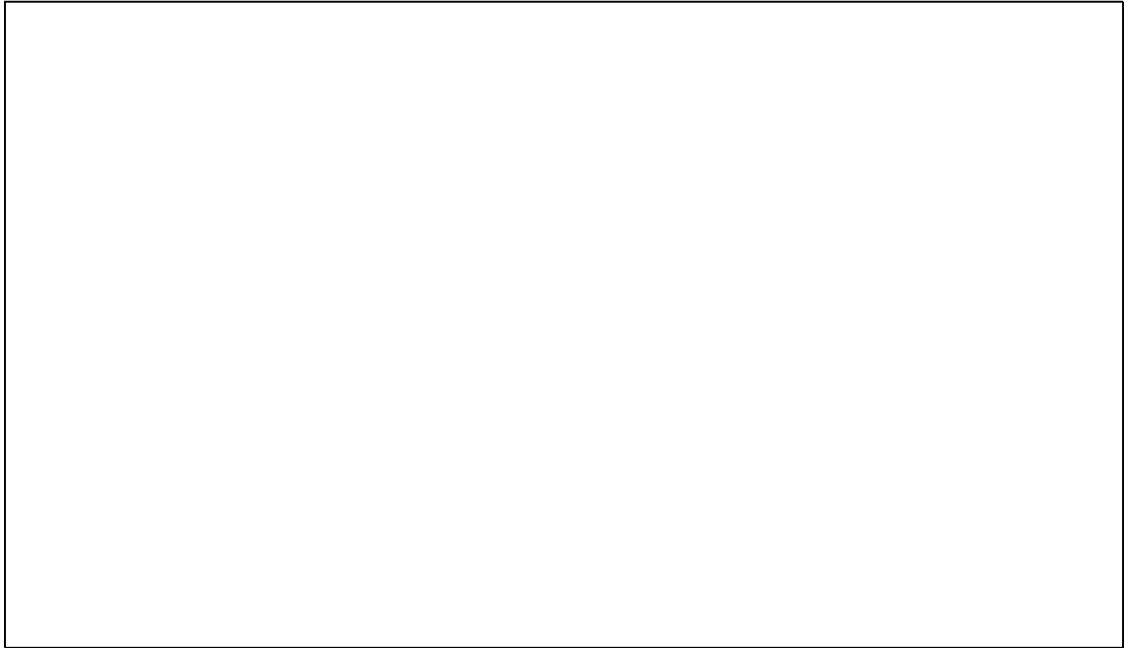
Reference Value = 0.098 A/m; Power Drift = -0.696 dB

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


Peak H-field in A/m

Grid 1 0.078 M4	Grid 2 0.091 M4	Grid 3 0.096 M4
Grid 4 0.065 M4	Grid 5 0.089 M4	Grid 6 0.097 M4
Grid 7 0.070 M4	Grid 8 0.081 M4	Grid 9 0.085 M4

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0 dB = 0.097A/m

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Date/Time: 1/12/2011 6:39:09 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_mid_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1880 MHz;Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface)Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.093 A/m; Power Drift = -0.100 dB

Maximum value of Total (measured) = 0.099 A/m

**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 = 0.081 A/m

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Probe Modulation Factor = 0.890


Device Reference Point: 0.000, 0.000, -6.30 mm

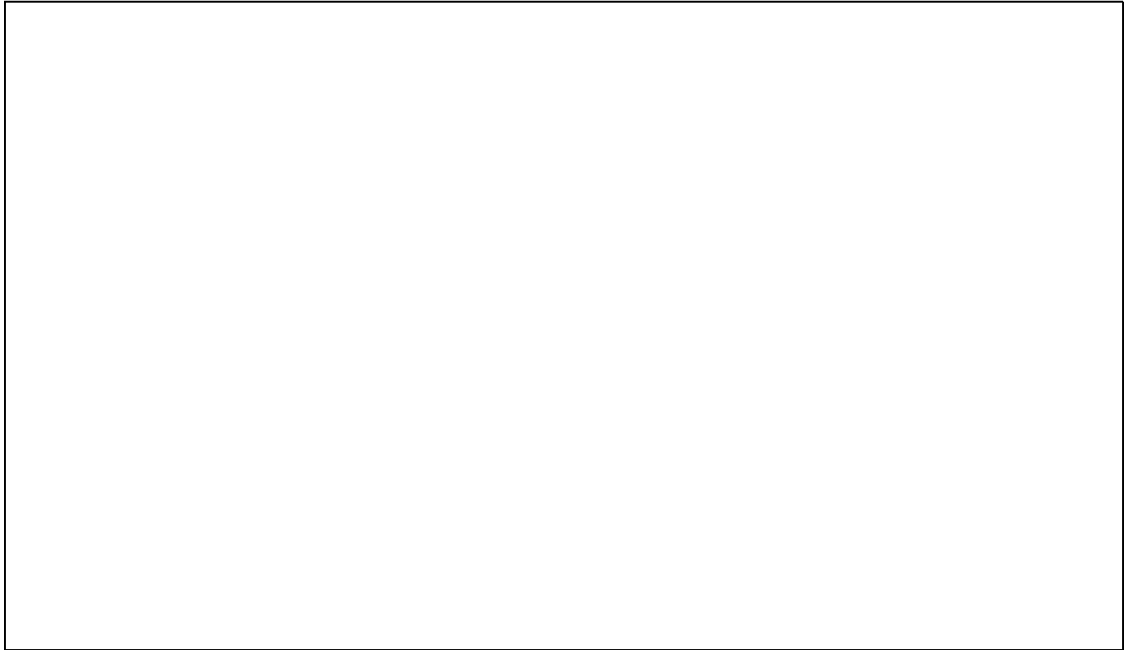
Reference Value = 0.093 A/m; Power Drift = -0.100 dB

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


Peak H-field in A/m

Grid 1 0.088 M4	Grid 2 0.082 M4	Grid 3 0.082 M4
Grid 4 0.068 M4	Grid 5 0.081 M4	Grid 6 0.081 M4
Grid 7 0.061 M4	Grid 8 0.068 M4	Grid 9 0.068 M4

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0 dB = 0.088A/m

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Date/Time: 1/12/2011 7:54:51 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_high_chan_Slide_Open

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1907.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.083 A/m; Power Drift = -0.719 dB

Maximum value of Total (measured) = 0.101 A/m

**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 = 0.081 A/m

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Probe Modulation Factor = 0.890


Device Reference Point: 0.000, 0.000, -6.30 mm

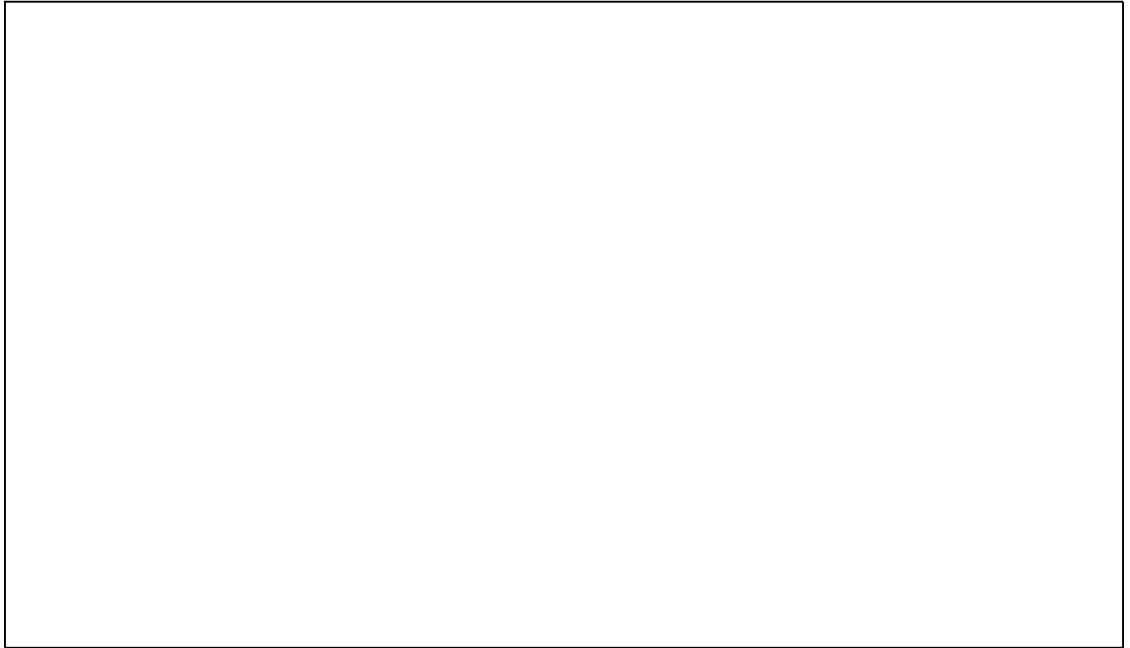
Reference Value = 0.083 A/m; Power Drift = -0.719 dB

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


Peak H-field in A/m

Grid 1 0.087 M4	Grid 2 0.091 M4	Grid 3 0.085 M4
Grid 4 0.073 M4	Grid 5 0.070 M4	Grid 6 0.081 M4
Grid 7 0.052 M4	Grid 8 0.059 M4	Grid 9 0.068 M4

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0 dB = 0.091A/m

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Date/Time: 1/12/2011 8:07:32 PM

Test Laboratory: RIM Testing Services

HAC_H_UMTS_band_II_low_chan_Slide_Open_Telecoil

DUT: BlackBerry Smartphone;

Communication System: WCDMA FDD II; Frequency: 1852.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6168; ; Calibrated: 3/12/2010
- Sensor-Surface: 0mm (Fix Surface) Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 5/17/2010
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device/Hearing
Aid Compatibility Test (11x11x1):** Measurement grid: dx=5mm, dy=5mm

Probe Modulation Factor = 1.00


Device Reference Point: 0.000, 0.000, -6.30 mm

Reference Value = 0.092 A/m; Power Drift = -0.583 dB

Maximum value of Total (measured) = 0.099 A/m

**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 = 0.088 A/m

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Probe Modulation Factor = 0.890


Device Reference Point: 0.000, 0.000, -6.30 mm

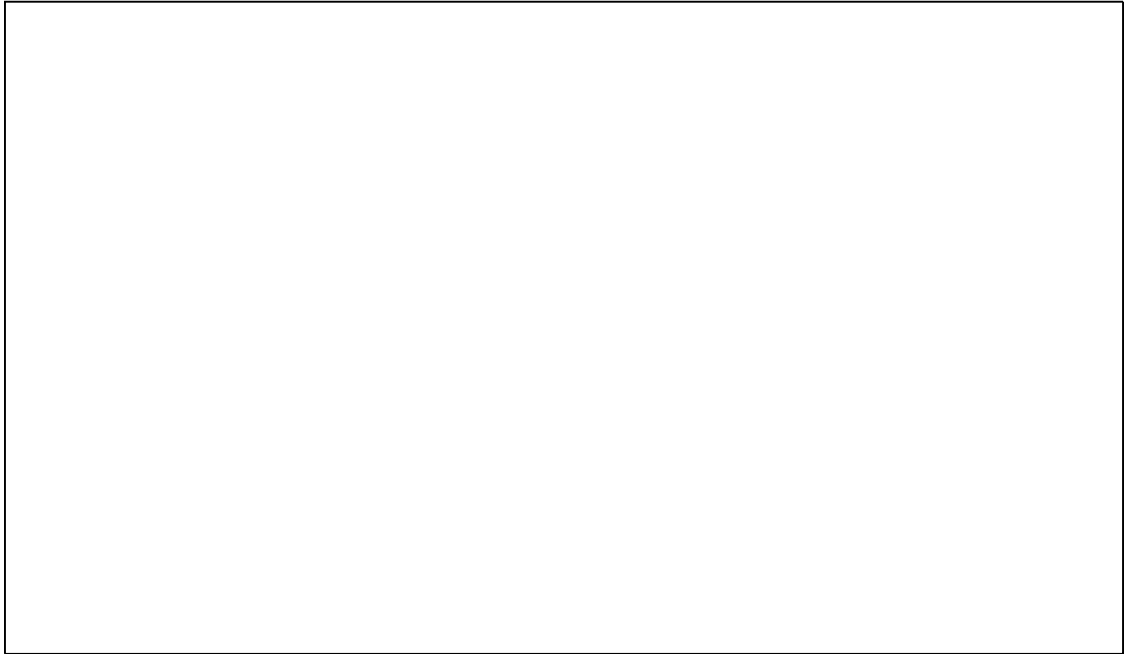
Reference Value = 0.092 A/m; Power Drift = -0.583 dB

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


Peak H-field in A/m

Grid 1 0.078 M4	Grid 2 0.088 M4	Grid 3 0.087 M4
Grid 4 0.076 M4	Grid 5 0.077 M4	Grid 6 0.074 M4
Grid 7 0.068 M4	Grid 8 0.088 M4	Grid 9 0.078 M4

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0 dB = 0.088A/m

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Date/Time: 7/13/2011 2:21:52 PM, Date/Time: 7/13/2011 2:17:41 PM, Date/Time:
7/13/2011 2:13:58 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS45 (IEEE/IEC/ANSI C63.19-2007)

DAS45 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- ; SEMCAD X Version 14.4.4 (2829)


**Device E-Field measurement with ER probe/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 = 41.678 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Reference Value = 37.282 V/m; Power Drift = 0.09 dB

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

Peak E-field in V/m

Grid 1 30.749 M4	Grid 2 29.472 M4	Grid 3 30.578 M4
Grid 4 28.216 M4	Grid 5 41.678 M4	Grid 6 42.012 M4
Grid 7 38.267 M4	Grid 8 48.911 M4	Grid 9 48.802 M4

Cursor:

Total = 48.911 V/m

E Category: M4

Location: -7, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 39.864 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 33.562 V/m; Power Drift = 0.06 dB

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

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Peak E-field in V/m

Grid 1 31.856 M4	Grid 2 29.926 M4	Grid 3 27.848 M4
Grid 4 27.079 M4	Grid 5 39.864 M4	Grid 6 40.377 M4
Grid 7 38.410 M4	Grid 8 49.273 M4	Grid 9 49.114 M4

Cursor:

Total = 49.273 V/m

E Category: M4

Location: -6.5, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 39.071 V/m

Probe Modulation Factor = 0.970


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 30.575 V/m; Power Drift = -0.03 dB

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

Peak E-field in V/m

Grid 1 33.790 M4	Grid 2 35.819 M4	Grid 3 34.971 M4
Grid 4 24.671 M4	Grid 5 39.071 M4	Grid 6 39.639 M4
Grid 7 37.662 M4	Grid 8 50.884 M4	Grid 9 50.861 M4

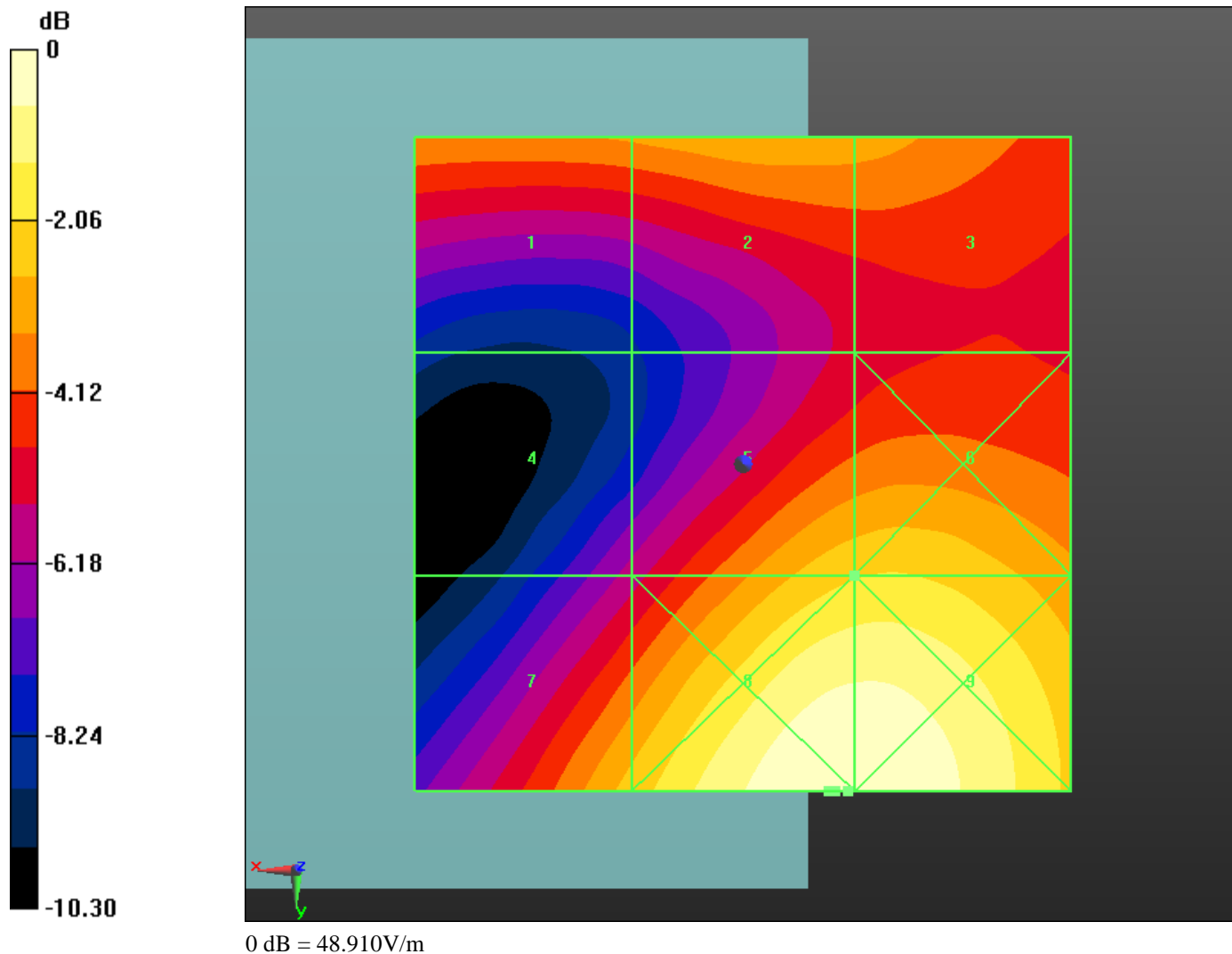
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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW


Cursor:

Total = 50.884 V/m

E Category: M4

Location: -8, 25, 8.7 mm



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Date/Time: 7/13/2011 3:03:15 PM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_Telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS45 (IEEE/IEC/ANSI C63.19-2007)

DAS45 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- ; SEMCAD X Version 14.4.4 (2829)

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm
from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility**

Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 38.447 V/m


Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 35.849 V/m; Power Drift = -0.01 dB

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

Peak E-field in V/m

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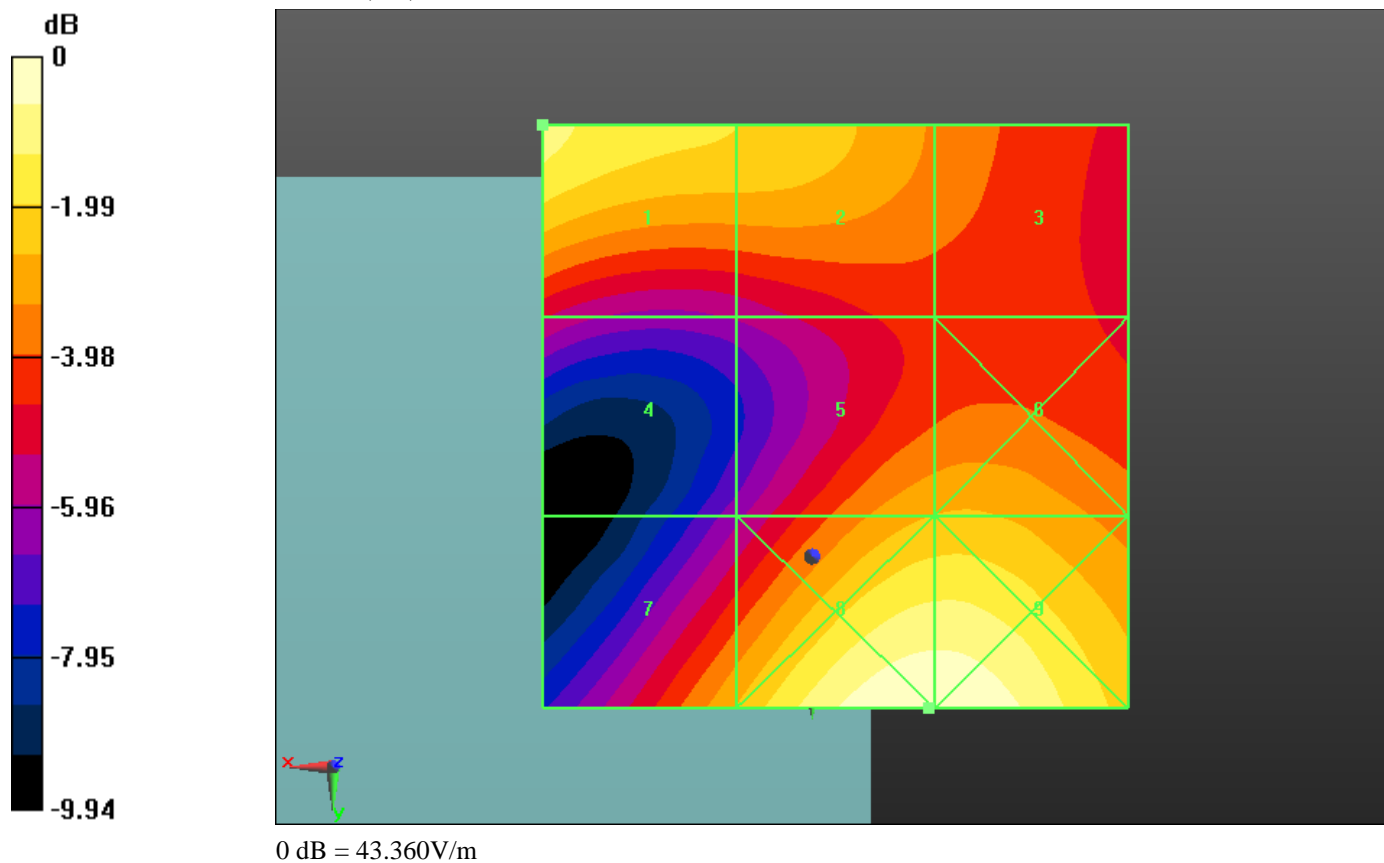
Grid 1 38.447 M4	Grid 2 34.555 M4	Grid 3 29.339 M4
Grid 4 23.802 M4	Grid 5 32.050 M4	Grid 6 32.347 M4
Grid 7 32.173 M4	Grid 8 43.358 M4	Grid 9 43.336 M4


Cursor:

Total = 43.358 V/m

E Category: M4

Location: -10, 13, 8.7 mm



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Date/Time: 7/13/2011 11:47:50 AM, Date/Time: 7/13/2011 11:51:20 AM, Date/Time:
7/13/2011 11:54:40 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_Slide_Open

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY4 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- ; SEMCAD X Version 14.4.4 (2829)


**Device E-Field measurement with ER probe/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 = 44.597 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Reference Value = 39.270 V/m; Power Drift = 0.04 dB

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

Peak E-field in V/m

Grid 1 30.131 M4	Grid 2 30.471 M4	Grid 3 31.777 M4
Grid 4 28.937 M4	Grid 5 44.597 M4	Grid 6 44.971 M4
Grid 7 39.705 M4	Grid 8 51.429 M4	Grid 9 51.363 M4

Cursor:

Total = 51.429 V/m

E Category: M4

Location: -7.5, 24.5, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 43.894 V/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 37.835 V/m; Power Drift = -0.07 dB

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

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Peak E-field in V/m

Grid 1 35.966 M4	Grid 2 27.718 M4	Grid 3 29.485 M4
Grid 4 29.467 M4	Grid 5 43.894 M4	Grid 6 44.059 M4
Grid 7 42.576 M4	Grid 8 52.559 M4	Grid 9 52.245 M4

Cursor:

Total = 52.559 V/m

E Category: M4

Location: -6, 25, 8.7 mm

**Device E-Field measurement with ER probe/E Scan - ER3D - 2007:
15 mm from Probe Center to the Device 2 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 45.019 V/m

Probe Modulation Factor = 0.970


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 35.790 V/m; Power Drift = -0.08 dB

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

Peak E-field in V/m

Grid 1 38.402 M4	Grid 2 29.092 M4	Grid 3 30.459 M4
Grid 4 28.464 M4	Grid 5 45.019 M4	Grid 6 45.619 M4
Grid 7 42.361 M4	Grid 8 54.962 M4	Grid 9 54.894 M4

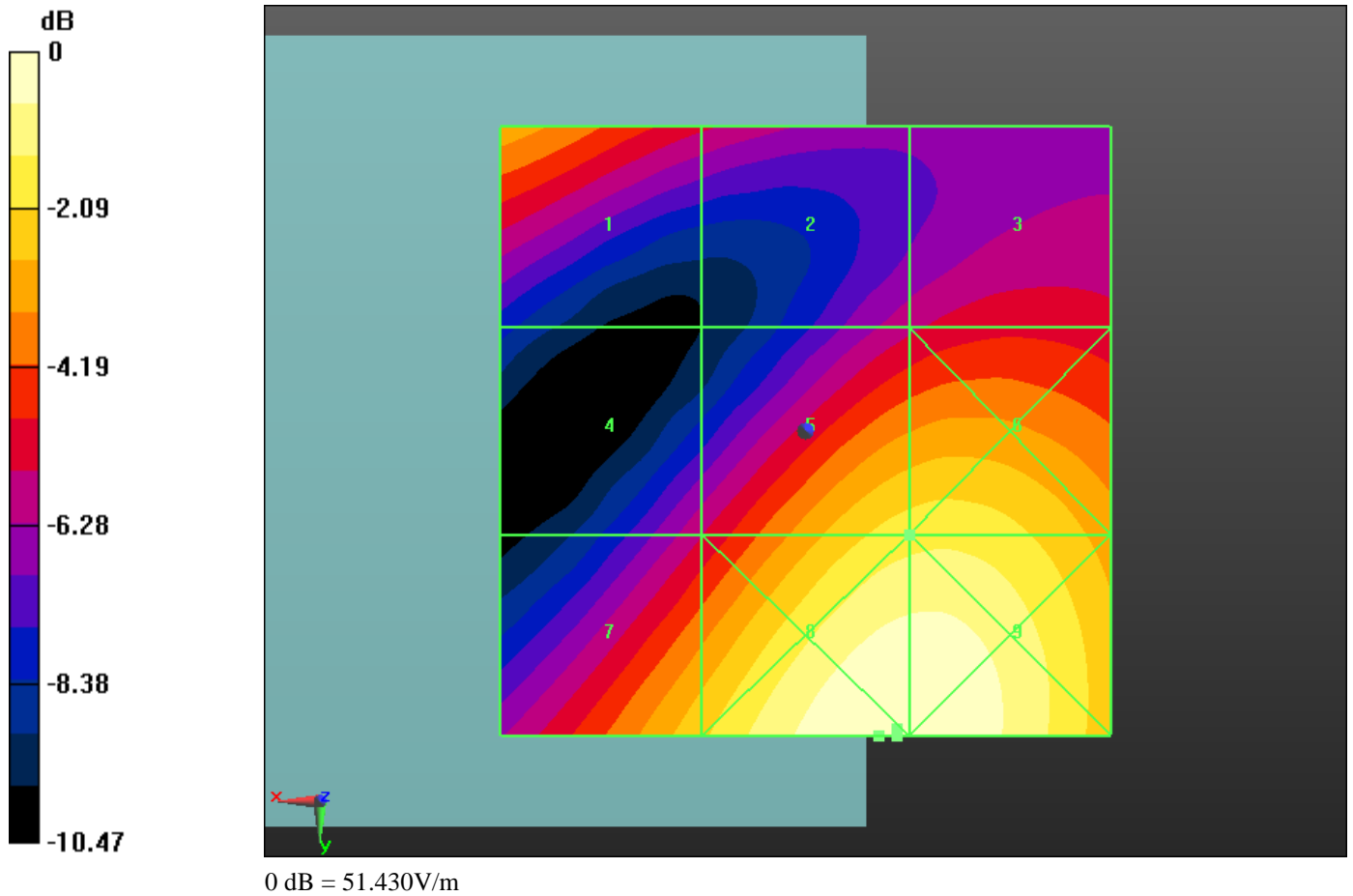
	Document Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/ REN71UW		Page 326 (342)
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Cursor:

Total = 54.961 V/m

E Category: M4

Location: -7.5, 25, 8.7 mm



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Date/Time: 7/13/2011 11:58:12 AM

Test Laboratory: RIM Testing Services

HAC RF_E-Field_UMTS_band_IV_Slide_Open_Telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1732.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS45 (IEEE/IEC/ANSI C63.19-2007)

DAS45 Configuration:

- Probe: ER3DV6 - SN2286; ConvF(1, 1, 1); Calibrated: 1/14/2011
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- ; SEMCAD X Version 14.4.4 (2829)

Device E-Field measurement with ER probe/E Scan - ER3D - 2007: 15 mm from Probe Center to the Device Telecoil cent/Hearing Aid Compatibility

Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 43.799 V/m


Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 35.658 V/m; Power Drift = -0.05 dB

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

Peak E-field in V/m

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Grid 1 43.799 M4	Grid 2 34.378 M4	Grid 3 27.320 M4
Grid 4 25.472 M4	Grid 5 39.671 M4	Grid 6 40.004 M4
Grid 7 40.210 M4	Grid 8 53.132 M4	Grid 9 52.954 M4

Cursor:

Total = 53.132 V/m

E Category: M4

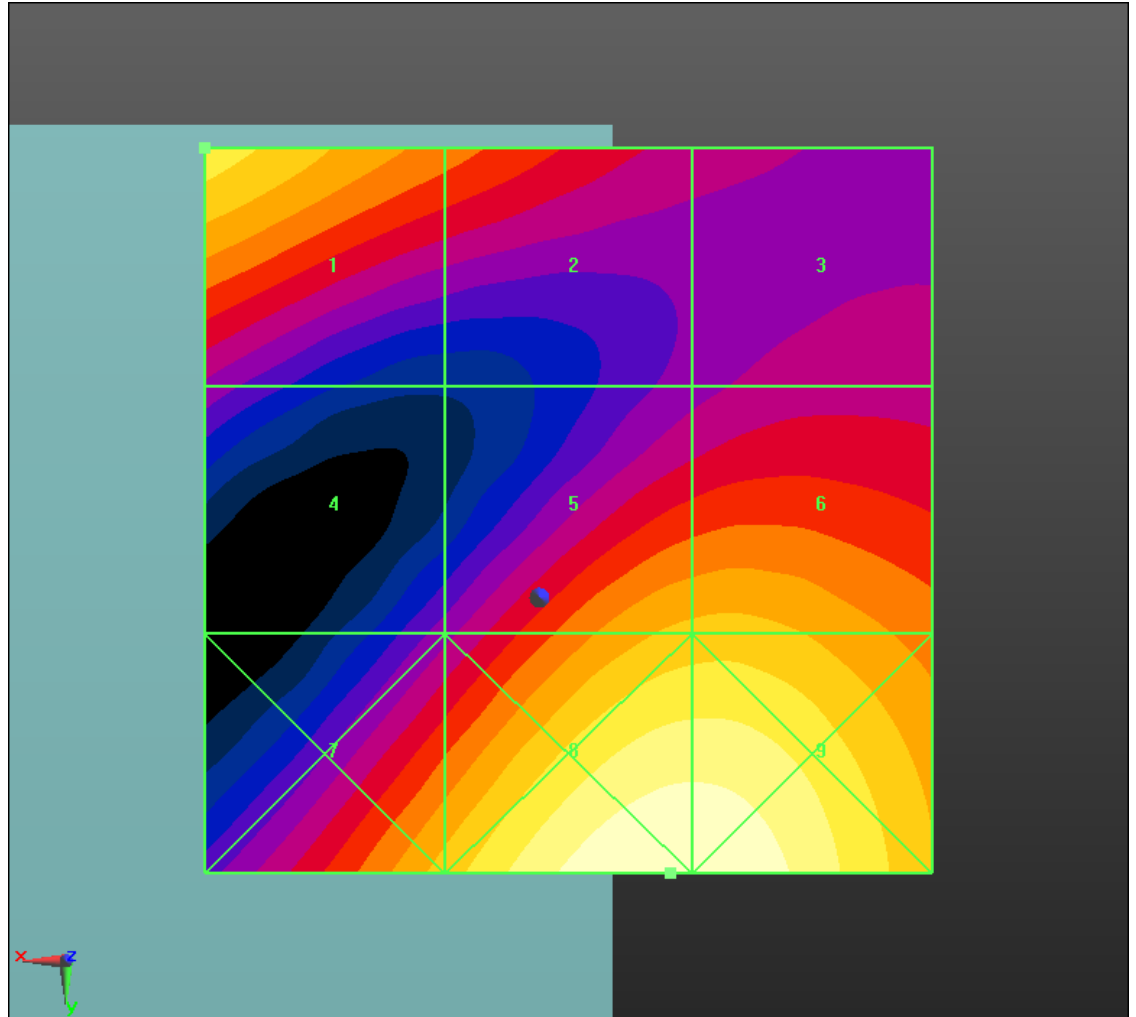
Location: -9, 19, 8.7 mm

Author Data
Andrew Becker


Dates of Test
**Jan. 12-13, Apr 5, July
 13, 2011**

Report No
RTS-3640-1102-01B

FCC ID
**L6ARDM70UW
 L6AREN70UW**



0 dB = 53.130V/m

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Date/Time: 7/13/2011 11:01:42 AM, Date/Time: 7/13/2011 11:05:27 AM, Date/Time:
7/13/2011 11:09:27 AM

Test Laboratory: RIM Testing Services

File Name: [HAC RF_H-Field_UMTS_band IV.da52:0](#)

DUT: BlackBerry Smartphone; Type: Sample

Program Name: Program

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- ; SEMCAD X Version 14.4.4 (2829)


Device H-Field measurement with H3DV6 probe/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 = 0.126 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.115 A/m; Power Drift = 0.29 dB

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

Peak H-field in A/m

Grid 1 0.113 M4	Grid 2 0.115 M4	Grid 3 0.115 M4
Grid 4 0.101 M4	Grid 5 0.113 M4	Grid 6 0.113 M4
Grid 7 0.126 M4	Grid 8 0.103 M4	Grid 9 0.093 M4

Cursor:

Total = 0.126 A/m

H Category: M4

Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 0.126 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.132 A/m; Power Drift = 0.03 dB

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

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Peak H-field in A/m

Grid 1 0.112 M4	Grid 2 0.127 M4	Grid 3 0.127 M4
Grid 4 0.105 M4	Grid 5 0.126 M4	Grid 6 0.126 M4
Grid 7 0.124 M4	Grid 8 0.108 M4	Grid 9 0.106 M4

Cursor:

Total = 0.127 A/m

H Category: M4

Location: -8, -11.5, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.138 A/m

Probe Modulation Factor = 0.970


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.148 A/m; Power Drift = -0.04 dB

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

Peak H-field in A/m

Grid 1 0.123 M4	Grid 2 0.138 M4	Grid 3 0.138 M4
Grid 4 0.115 M4	Grid 5 0.138 M4	Grid 6 0.138 M4
Grid 7 0.126 M4	Grid 8 0.120 M4	Grid 9 0.119 M4

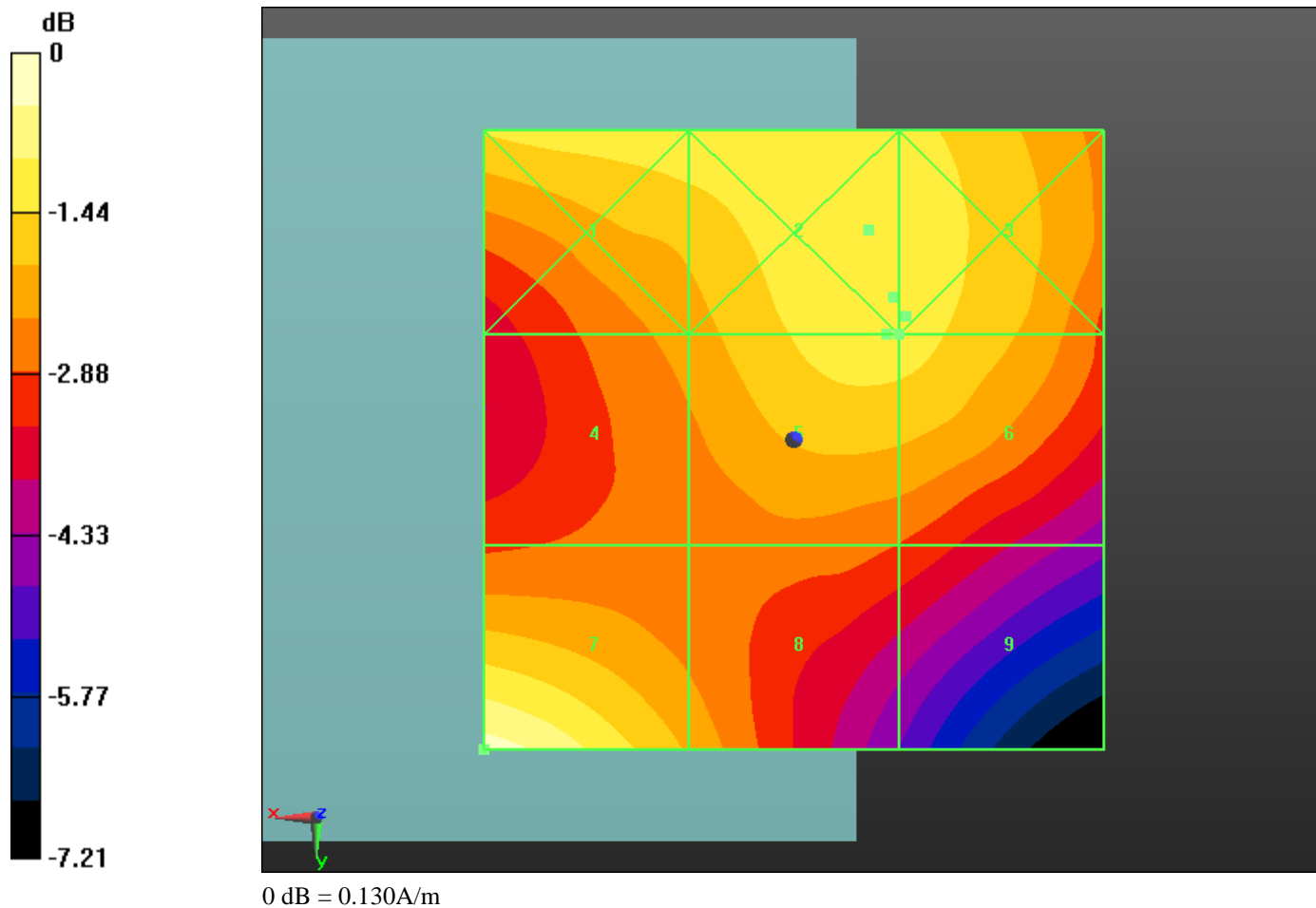
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Cursor:

Total = 0.138 A/m

H Category: M4

Location: -9, -10, 8.7 mm



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Date/Time: 7/13/2011 11:13:34 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_Telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1752.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS45 (IEEE/IEC/ANSI C63.19-2007)

DAS45 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- ; SEMCAD X Version 14.4.4 (2829)

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15
mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test**

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.137 A/m


Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.147 A/m; Power Drift = 0.03 dB

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

Peak H-field in A/m

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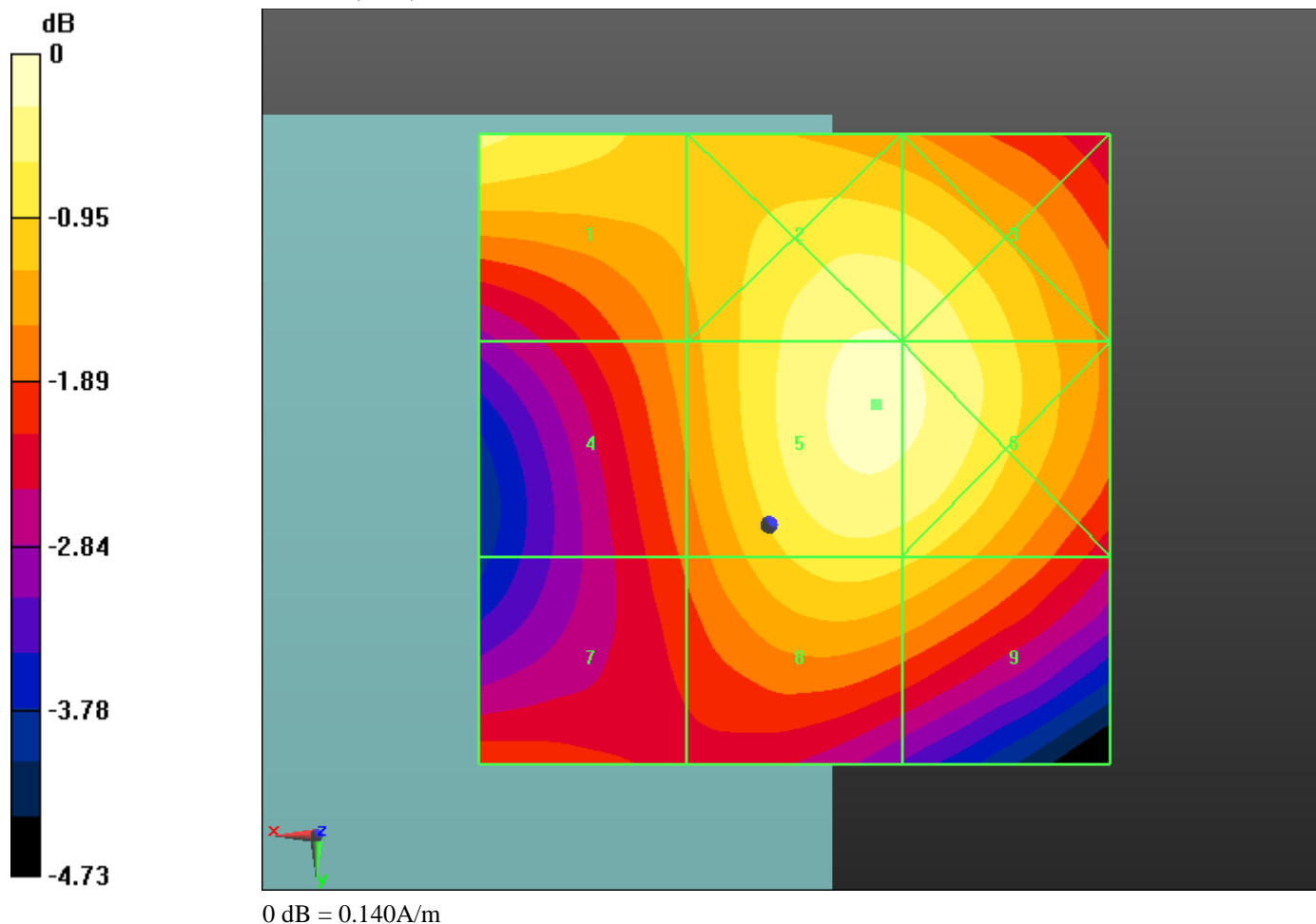
Grid 1 0.132 M4	Grid 2 0.136 M4	Grid 3 0.135 M4
Grid 4 0.119 M4	Grid 5 0.137 M4	Grid 6 0.136 M4
Grid 7 0.114 M4	Grid 8 0.128 M4	Grid 9 0.127 M4


Cursor:

Total = 0.137 A/m

H Category: M4

Location: -8.5, -9.5, 8.7 mm



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Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW

Date/Time: 7/13/2011 11:25:17 AM, Date/Time: 7/13/2011 11:29:01 AM, Date/Time:
7/13/2011 11:32:31 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_Slide_Open

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz, Frequency: 1732.6 MHz, Frequency: 1752.6 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY4 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- ; SEMCAD X Version 14.4.4 (2829)


Device H-Field measurement with H3DV6 probe/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 = 0.102 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

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Reference Value = 0.110 A/m; Power Drift = 0.13 dB

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

Peak H-field in A/m

Grid 1 0.098 M4	Grid 2 0.102 M4	Grid 3 0.101 M4
Grid 4 0.105 M4	Grid 5 0.101 M4	Grid 6 0.100 M4
Grid 7 0.137 M4	Grid 8 0.116 M4	Grid 9 0.087 M4

Cursor:

Total = 0.137 A/m

H Category: M4

Location: 25, 25, 8.7 mm

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 -
2007: 15 mm from Probe Center to the Device 2/Hearing Aid**

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm


Maximum value of peak Total field = 0.112 A/m

Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.121 A/m; Power Drift = -0.01 dB

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

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Peak H-field in A/m

Grid 1 0.102 M4	Grid 2 0.112 M4	Grid 3 0.111 M4
Grid 4 0.103 M4	Grid 5 0.111 M4	Grid 6 0.111 M4
Grid 7 0.130 M4	Grid 8 0.108 M4	Grid 9 0.094 M4

Cursor:

Total = 0.130 A/m

H Category: M4

Location: 25, 25, 8.7 mm

Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15 mm from Probe Center to the Device 2 2/Hearing Aid

Compatibility Test (101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.121 A/m

Probe Modulation Factor = 0.970


Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.131 A/m; Power Drift = -0.0024 dB

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

Peak H-field in A/m

Grid 1 0.108 M4	Grid 2 0.121 M4	Grid 3 0.121 M4
Grid 4 0.109 M4	Grid 5 0.121 M4	Grid 6 0.121 M4
Grid 7 0.135 M4	Grid 8 0.117 M4	Grid 9 0.105 M4

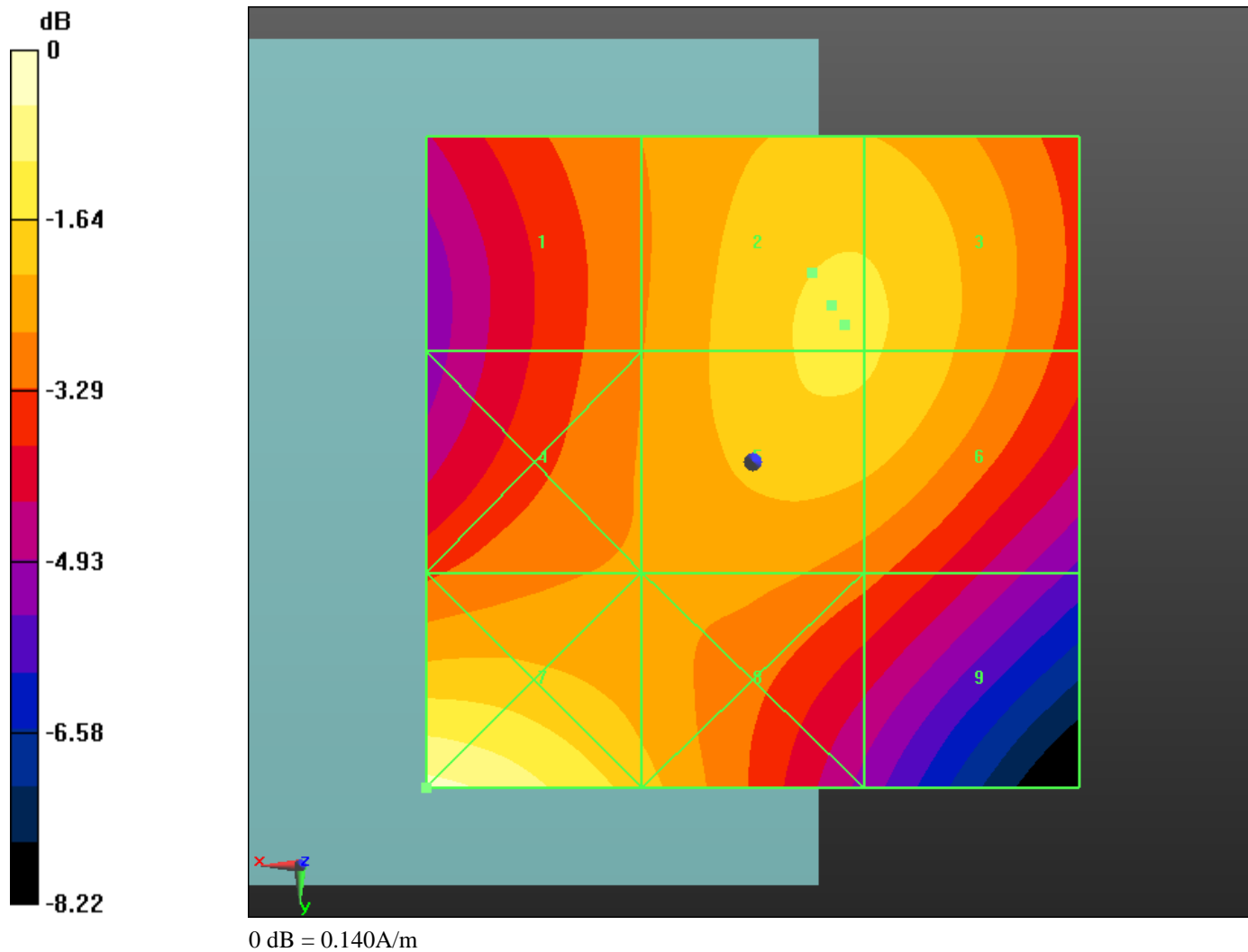
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	Annex A to Hearing Aid Compatibility RF Emissions Test Report for the BlackBerry® Smartphone model RDM71UW/ REN71UW		339 (342)
Author Data Andrew Becker	Dates of Test Jan. 12-13, Apr 5, July 13, 2011	Report No RTS-3640-1102-01B	FCC ID L6ARDM70UW L6AREN70UW


Cursor:

Total = 0.135 A/m

H Category: M4

Location: 25, 25, 8.7 mm



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Date/Time: 7/13/2011 11:38:03 AM

Test Laboratory: RIM Testing Services

HAC RF_H-Field_UMTS_band IV_Slide_Open_Telecoil

DUT: BlackBerry Smartphone; Type: Sample

Communication System: WCDMA FDD IV; Frequency: 1712.4 MHz; Duty Cycle: 1:1

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

Phantom section: RF Section

Measurement Standard: DAS45 (IEEE/IEC/ANSI C63.19-2007)

DAS45 Configuration:

- Probe: H3DV6 - SN6105; ; Calibrated: 11/18/2010
- Sensor-Surface: (Fix Surface)
- Electronics: DAE3 Sn472; Calibrated: 3/7/2011
- Phantom: HAC RF Test Arch with AMCC; Type: SD HAC P01 BA;
- ; SEMCAD X Version 14.4.4 (2829)

**Device H-Field measurement with H3DV6 probe/H Scan - H3DV6 - 2007: 15
mm from Probe Center to the Device 2 2 2/Hearing Aid Compatibility Test**

(101x101x1): Measurement grid: dx=5mm, dy=5mm

Maximum value of peak Total field = 0.102 A/m


Probe Modulation Factor = 0.970

Device Reference Point: 0, 0, -6.3 mm

Reference Value = 0.111 A/m; Power Drift = -0.04 dB

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

Peak H-field in A/m

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Grid 1 0.099 M4	Grid 2 0.101 M4	Grid 3 0.099 M4
Grid 4 0.099 M4	Grid 5 0.102 M4	Grid 6 0.100 M4
Grid 7 0.111 M4	Grid 8 0.102 M4	Grid 9 0.096 M4

Cursor:

Total = 0.111 A/m

H Category: M4

Location: 23, 13, 8.7 mm

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