

| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
| Date(s) of Evaluation: | June 21 - July 27, 2006 | Report Revision No.: | Revision 1.0 | |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

Appendix D - Maximum Permissible Exposure Calculation

| D.1 REFERENCES | |
|---------------------------------|--|
| Normative Reference Standard | FCC CFR 47§1.1310 IEEE Std C95.1-1999 |
| Procedure Reference | FCC CFR 47§2.1091 |

| D.2 LIMITS | | | | | | | |
|------------------------------|--------------------|---------------------------|--|--|--|--|--|
| | Frequency | Power Density | | | | | |
| FCC CFR 47§1.1310 Table 1(b) | 300 - 1500 MHz | f/1500 mW/cm ² | | | | | |
| | 1500 - 100,000 MHz | 1.0 mW/cm ² | | | | | |

| D.3 ENVIRONMENTAL CONDITIONS | | | | | |
|------------------------------|----|--|--|--|--|
| Temperature | na | | | | |
| Humidity | na | | | | |
| Barometric Pressure | na | | | | |

| D.4 MEASUREMENT EQUIPMENT SETUP | | | | |
|---------------------------------|---|--|--|--|
| MEASUREMENT EQUIPMENT | The results described herein were determined by calculations, so no measurement equipment was used. The power measurements for each radio used in these calculations were made as described in Appendix A of this report. | | | |
| MEASUREMENT EQUIPMENT SETTINGS | n/a | | | |

| D.5 DUT OPERA | D.5 DUT OPERATING DESCRIPTION | | | | | | | |
|-------------------|---|--|--|--|--|--|--|--|
| Dual-Band GPRS | The maximum GPRS RF conducted output power in each band used for these calculations was measured on Channel 251 for Cellular and Channel 661 for PCS. | | | | | | | |
| Dual-Band EDGE | The maximum EDGE RF conducted output power in each band used for these calculations was measured on Channel 190 for Cellular and Channel 661 for PCS. | | | | | | | |
| Dual-Band UMTS | The maximum UMTS RF conducted output power in each band used for these calculations was measured on Channel 4233 for Cellular and Channel 9400 for PCS. | | | | | | | |

| Company: | Itronix | Corporation | FCC ID: | KBCIX260PLUSAC860 | Model(s): | IX260PLUSAC860 | ITI | RONIX ° |
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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|--|------------------------------|-----------------|--|
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| Test Lab Registration(s): | ration(s): FCC Lab Registration #714830 Industry Canada Lab File # | | ab File #3874 | |

D.6 TEST RESULTS

D.6.1 Calculations:

Swivel Dipole Antenna (Max. Measured Conducted Power - Cellular GPRS Mode)

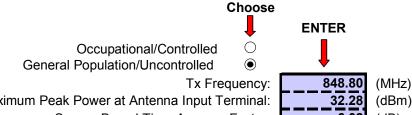
Prediction of MPE Limit
OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = \frac{PG}{4\pi R^2} \qquad \begin{array}{l} \textbf{S= power density} \\ \textbf{P= power input to the antenna} \\ \textbf{G= power gain of the antenna in the direction of interest relative to an isotropic radiator} \\ \textbf{R= distance to the center of radiation of the antenna} \\ \textbf{SL= power density limit} \end{array}$$

Ratio of Time On versus Total Transmit Time





Maximum Peak Power at Antenna Input Terminal:

Source-Based Time-Average Factor:
Antenna gain:

-6.02 (dB)

-6.02 (dB)

S (mw/cm^2) at 20cm

0.15282675

Formulae:

 $S = \frac{PG}{4\pi R^2}$ where: S = Power Density LimitP = Power Output of the Device

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))

Power Output of the Device (W) = 10 * log (RF Output Power (dBm) + Source-Based Time Average Factor (dB))

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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|--|------------------------------|-----------------|--|
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| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | E Industry Canada RSS-132, R | | |
| Test Lab Registration(s): | ration(s): FCC Lab Registration #714830 Industry Canada Lab File # | | ab File #3874 | |

D.6.2 Calculations:

Swivel Dipole Antenna (Max. Measured Conducted Power - PCS GPRS Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

S= power density

G= power gain of the antenna in the direction of

interest relative to an isotropic radiator R= distance to the center of radiation of the antenna

SL= power density limit

Ratio of Time On versus Total Transmit Time

0.25

(dBi)

Choose

 \bigcirc

(

Occupational/Controlled General Population/Uncontrolled

ENTER

1880.00

Tx Frequency:

(MHz) Maximum Peak Power at Antenna Input Terminal: 28.63 (dBm) Source-Based Time-Average Factor: 6.02 (dB)

Antenna gain: SL= 1.00 (mW/cm²)

P= 182.3644 (mW) 1.82 (numeric)

R =5.14 (cm)

> S (mw/cm^2) at 20cm

> > 0.065947658

Formulae:

S = PG

where: S = Power Density Limit

P = Power Output of the Device

G = Numeric Antenna Gain R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))



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| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.6.3 Calculations:

Swivel Dipole Antenna (Max. Measured Conducted Power - Cellular EDGE Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$
 S= powe

 $S = \frac{PG}{4\pi R^2}$ S= power density P= power input to the antenna G= power gain of the antenna in the direction of interest relative to an isotropic radiator R= distance to the center of radiation of the antenna

SL= power density limit

Ratio of Time On versus Total Transmit Time

0.25

Choose

Occupational/Controlled General Population/Uncontrolled

ENTER

Tx Frequency: Maximum Peak Power at Antenna Input Terminal:

Source-Based Time-Average Factor: Antenna gain: 836.60 (MHz) 26.89 (dBm) (dB) (dBi)

SL= 0.56 (mW/cm²) P= **122.1631** (mW) 1.82 (numeric)

5.63 (cm)

> S (mw/cm^2) at 20cm

> > 0.044177321

Formulae:

where: S = Power Density Limit P = Power Output of the Device

G = Numeric Antenna Gain R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))

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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
| Date(s) of Evaluation: | June 21 - July 27, 2006 | Report Revision No.: | Revision 1.0 | |
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| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.6.4 Calculations:

Swivel Dipole Antenna (Max. Measured Conducted Power - PCS EDGE Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$
 S= power density

 $S = \frac{PG}{4\pi R^2} \qquad \begin{array}{l} \text{S= power density} \\ \text{P= power input to the antenna} \\ \text{G= power gain of the antenna in the direction of} \\ \text{interest relative to an isotropic radiator} \end{array}$

R= distance to the center of radiation of the antenna **SL=** power density limit

Ratio of Time On versus Total Transmit Time

0.25

ENTER

Choose

(cm)

 \bigcirc Occupational/Controlled General Population/Uncontrolled

Tx Frequency:

Maximum Peak Power at Antenna Input Terminal:

Source-Based Time-Average Factor: Antenna gain:

1880.00 (MHz) (dBm) -6.02 (dB) (dBi)

3.68

S (mw/cm^2) at 20cm

0.033822007

Formulae:

where: S = Power Density Limit

P = Power Output of the Device G = Numeric Antenna Gain R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))

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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
| Date(s) of Evaluation: | June 21 - July 27, 2006 | Report Revision No.: | Revision 1.0 | |
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| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.6.5 Calculations:

Swivel Dipole Antenna (Max. Measured Conducted Power - Cellular UMTS Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

S= power density

P= power input to the antenna

G= power gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the center of radiation of the antenna **SL=** power density limit

Ratio of Time On versus Total Transmit Time

1.00

Choose

Occupational/Controlled General Population/Uncontrolled

ENTER

 \bigcirc

Tx Frequency: 846.60

(MHz) (dBm)

Maximum Peak Power at Antenna Input Terminal: Source-Based Time-Average Factor:

Antenna gain:

0.00 (dB) 2.60 (dBi)

SL= 0.56 (mW/cm²) P= 251.1886 (mW) 1.82 (numeric)

8.03 R =(cm)

> S (mw/cm^2) at 20cm

> > 0.090836286

Formulae:

where: S = Power Density Limit

P = Power Output of the Device G = Numeric Antenna Gain

R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))

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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
| Date(s) of Evaluation: | June 21 - July 27, 2006 | Report Revision No.: | Revision 1.0 | |
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| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.6.6 Calculations:

Swivel Dipole Antenna (Max. Measured Conducted Power - PCS UMTS Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

 $S = \frac{PG}{4\pi R^2} \qquad \begin{array}{l} \textbf{S=} \ \, \text{power density} \\ \textbf{P=} \ \, \text{power input to the antenna} \\ \textbf{G=} \ \, \text{power gain of the antenna in the direction of} \\ \end{array}$ interest relative to an isotropic radiator

R= distance to the center of radiation of the antenna

SL= power density limit

Ratio of Time On versus Total Transmit Time

1.00

Choose

 \bigcirc

Occupational/Controlled General Population/Uncontrolled

Maximum Peak Power at Antenna Input Terminal:

(

1880.00

ENTER

(MHz) (dBm)

Source-Based Time-Average Factor: Antenna gain:

Tx Frequency:

23.00 0.00 (dB) (dBi)

SL= 1.00 (mW/cm²) P= 199.5262 (mW) 1.82 G= (numeric)

5.38 R = (cm)

> S (mw/cm^2) at 20cm

> > 0.072153826

Formulae:

where: S = Power Density Limit

P = Power Output of the Device G = Numeric Antenna Gain R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))

| Company: | Itronix | Corporation | FCC ID: | KBCIX260PLUSAC860 | Model(s): | IX260PLUSAC860 | ITI | SOVIX. |
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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
| Date(s) of Evaluation: | June 21 - July 27, 2006 | Report Revision No.: | Revision 1.0 | |
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| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.6.7 Calculations:

Vehicle-Mount Antenna (Max. Measured Conducted Power - Cellular GPRS Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

S= power density

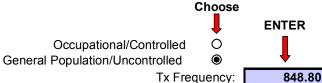
P= power input to the antenna $4\pi R^2$ G= power gain of the antenna in the direction of interest relative to an isotropic radiator interest relative to an isotropic radiator

R= distance to the center of radiation of the antenna

SL= power density limit

Ratio of Time On versus Total Transmit Time

0.25



Maximum Peak Power at Antenna Input Terminal: Source-Based Time-Average Factor:

(dBm) (dB) (dBi)

(MHz)

Antenna gain and Cable Loss:

S (mw/cm^2) at 20cm

0.108442464

Formulae:

$$S = \frac{PG}{4\pi R^2}$$

where: S = Power Density Limit

P = Power Output of the Device

G = Numeric Antenna Gain R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))



| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
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| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.6.8 Calculations:

Vehicle-Mount Antenna (Max. Measured Conducted Power - PCS GPRS Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

 $S = \frac{PG}{4\pi R^2} \qquad \begin{array}{l} \textbf{S=} \quad \text{power density} \\ \textbf{P=} \quad \text{power input to the antenna} \\ \textbf{G=} \quad \text{power gain of the antenna in the direction of interest relative to an isotropic radiator} \\ & \qquad \qquad \end{array}$

R= distance to the center of radiation of the antenna SL= power density limit

Ratio of Time On versus Total Transmit Time

0.25



0

Occupational/Controlled General Population/Uncontrolled

ENTER

• 1880.00 Tx Frequency: (MHz)

Maximum Peak Power at Antenna Input Terminal:

Source-Based Time-Average Factor: Antenna gain and Cable Loss:

28.63 (dBm) (dB) (dBi)

$$R = 3.90$$
 (cm)

S (mw/cm^2) at 20cm

0.037948916

Formulae:

S = PG

where: S = Power Density Limit

P = Power Output of the Device G = Numeric Antenna Gain

R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))

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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
| Date(s) of Evaluation: | June 21 - July 27, 2006 | Report Revision No.: | Revision 1.0 | |
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| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.6.9 Calculations:

Vehicle-Mount Antenna (Max. Measured Conducted Power - Cellular EDGE Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

S= power density

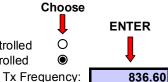
 $\frac{1}{4\pi R^2}$ **P=** power input to the antenna **G=** power gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the center of radiation of the antenna

SL= power density limit

Ratio of Time On versus Total Transmit Time

0.25



Occupational/Controlled General Population/Uncontrolled

Maximum Peak Power at Antenna Input Terminal: Source-Based Time-Average Factor:

(MHz) 26.89 (dBm) -6.02 (dB) (dBi)

$$R = 4.74$$
 (cm)

Antenna gain and Cable Loss:

S (mw/cm^2) at 20cm

0.031347245

Formulae:

$$S = PG \over 4\pi R^2$$

where: S = Power Density Limit

P = Power Output of the Device

G = Numeric Antenna Gain R = Distance from Antenna

$$R = \sqrt{\frac{PG}{4\pi S}}$$

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))
Power Output of the Device (W) = 10 * log (RF Output Power (dBm) + Source-Based Time Average Factor (dB))



| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
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| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada Lab File #3874 | | |

D.6.10 Calculations:

Vehicle-Mount Antenna (Max. Measured Conducted Power - PCS EDGE Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

S= power density

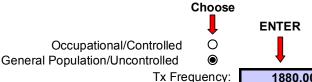
 $\frac{1}{4\pi R^2}$ **P=** power input to the antenna **G=** power gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the center of radiation of the antenna

SL= power density limit

Ratio of Time On versus Total Transmit Time

0.25



Maximum Peak Power at Antenna Input Terminal:

Source-Based Time-Average Factor: Antenna gain and Cable Loss: 1880.00 (MHz) (dBm) -6.02 (dB) (dBi)

$$R = 2.79$$
 (cm)

S (mw/cm^2) at 20cm

0.019462534

Formulae:

$$S = PG$$

$$4\pi R^2$$

where: S = Power Density Limit

P = Power Output of the Device

G = Numeric Antenna Gain R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))
Power Output of the Device (W) = 10 * log (RF Output Power (dBm) + Source-Based Time Average Factor (dB))



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D.6.11 Calculations:

Vehicle-Mount Antenna (Max. Measured Conducted Power - Cellular UMTS Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

S= power density

 $\frac{}{4\pi R^2} \quad \begin{array}{l} \textbf{P=} \quad \text{power input to the antenna} \\ \textbf{G=} \quad \text{power gain of the antenna} \end{array}$ **G=** power gain of the antenna in the direction of

interest relative to an isotropic radiator R= distance to the center of radiation of the antenna

SL= power density limit

Ratio of Time On versus Total Transmit Time

1.00

Choose

Occupational/Controlled General Population/Uncontrolled

0

846.60 Tx Frequency:

ENTER

(MHz) 24.00 (dBm)

Maximum Peak Power at Antenna Input Terminal:

Source-Based Time-Average Factor: Antenna gain and Cable Loss:

0.00

(dB) (dBi)

SL= **0.56** (mW/cm²) P= 251.1886 (mW) 1.29 G= (numeric)

R = 6.76 (cm)

> S (mw/cm^2) at 20cm

> > 0.064455409

Formulae:

where: S = Power Density Limit

P = Power Output of the Device G = Numeric Antenna Gain

R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))

| Company: | Itronix | Corporation | FCC ID: | KBCIX260PLUSAC860 | Model(s): | IX260PLUSAC860 | ITRONIX ° | |
|-----------------|--|----------------|-----------------------------------|---------------------|------------------------------|----------------|------------------|--|
| DUT Type: | Laptop PC with Sierra Wireless AC860 Dual-Band GSM/GPRS/EDGE/UMTS PCMCIA Modem | | | | | | | |
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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
| Date(s) of Evaluation: | June 21 - July 27, 2006 | Report Revision No.: | Revision 1.0 | |
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D.6.12 Calculations:

Vehicle-Mount Antenna (Max. Measured Conducted Power - PCS UMTS Mode)

Prediction of MPE Limit OET Bulletin 65, Edition 97-01

Equation from page 18

$$S = PG$$

S= power density

 $\frac{1}{4\pi R^2}$ **P=** power input to the antenna **G=** power gain of the antenna **G= G=** power gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the center of radiation of the antenna

SL= power density limit

Ratio of Time On versus Total Transmit Time

1.00

Choose

Occupational/Controlled General Population/Uncontrolled

0

1880.00 Tx Frequency:

ENTER

(MHz) (dBm)

Maximum Peak Power at Antenna Input Terminal:

Source-Based Time-Average Factor: Antenna gain and Cable Loss: 23.00 0.00 (dB) 0.20 (dBi)

SL= **1.00** (mW/cm²) P= 199.5262 (mW) 1.05 G= (numeric)

R = 4.08 (cm)

> S (mw/cm^2) at 20cm

> > 0.041520193

Formulae:

where: S = Power Density Limit

P = Power Output of the Device G = Numeric Antenna Gain R = Distance from Antenna

Source-Based Time-Average Factor = 10 * log (Time On / (Time On + Time Off))

| Company: | Itronix | Corporation | FCC ID: | KBCIX260PLUSAC860 | Model(s): | IX260PLUSAC860 | ITRONIX ° | |
|--------------------------------|--|------------------|----------------|-----------------------------------|---------------------|------------------------------|------------------|---------------|
| DUT Type: | Laptop PC with Sierra Wireless AC860 Dual-Band GSM/GPRS/EDGE/UMTS PCMCIA Modem | | | | | | | |
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| Test Report Serial No.: | 061506KBC-T756-E24G | Report Issue Date: | August 22, 2006 | |
|---------------------------|------------------------------|----------------------------------|-----------------|--|
| Date(s) of Evaluation: | June 21 - July 27, 2006 | Report Revision No.: | Revision 1.0 | |
| Test Standard(s): | FCC 47 CFR §2, §22H, §24E | Industry Canada RSS-132, RSS-133 | | |
| Test Lab Registration(s): | FCC Lab Registration #714830 | Industry Canada L | ab File #3874 | |

D.7 PASS/FAIL

In reference to the results outlined in D6 the DUT passes the requirements as stated in the reference standards as follows:

1) The DUT must comply with the minimum spacing requirement of 20 cm to ensure an exposure of not more than f/1500 mW/cm² for frequencies between 300 and 1500 MHz and 1 mW/cm² for frequencies between 1500 and 100,000 MHz.

D.8 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watson EMC Manager Celltech Labs Inc.

June 27, 2006

Date

Spenser Watson