



849 NW State Road 45  
PO Box 370  
Newberry, FL 32669

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## COMPLIANCE TEST REPORT

### PER STANDARD (s):

**FCC Part 15, Subparts B, C, and D**  
**IC RSS-213 & ICES-003**  
**UPCS / LE-PCS Isochronous Device**  
**Base & Handset: 1921.536 – 1928.448 MHz**  
**ANSI C63.17 - 1998 (or 2005 Draft where applicable)**  
**ANSI C63.4 – 2003**

|                                          |                                                                                 |
|------------------------------------------|---------------------------------------------------------------------------------|
| <b>APPLICANT:</b>                        | ASCALADE TECHNOLOGIES INC.<br>12051 RIVERSIDE WAY<br>RICHMOND BC V6W 1K7 CANADA |
| <b>DESCRIPTION OF PRODUCT:</b>           | 1.9GHz DECT PSTN Cordless Phone w/ VoIP Features                                |
| <b>FCC IDs:</b>                          | PBWDT19R42(Base), PBWDT19R42H (Handset)                                         |
| <b>IC LABEL:</b>                         | IC: 3842A-B209                                                                  |
| <b>Model Number:</b>                     | B209 (Base), B209H (Handset)                                                    |
| <b>DATE SAMPLE RECEIVED FOR TESTING:</b> | 11/29/2006                                                                      |
| <b>DATE TESTED:</b>                      | 12/20/2006                                                                      |
| <b>REPORT NO.:</b>                       | 3246AUT6TestReport.PDF                                                          |
| <b>TEST RESULTS:</b>                     | <input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL          |

**PLEASE NOTE:** THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.

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## 1 GENERAL INFORMATION

The test results relate only to the items tested.

### 1.1 COMPLIANCE STATEMENT

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report and demonstrate that the equipment complies with the appropriate standards. No modifications were made to the equipment during testing in order to demonstrate compliance with these standards.



Certificate #0955-01

I attest that the necessary measurements were made, under my supervision, at TIMCO ENGINEERING, INC. located at 849 N.W. State Road 45, Newberry, Florida 32669.

**Authorized Signatory Name:** Mario de Aranzeta

**Signature:** On File

**Function:** Chief Engineer

**Date:** January 10, 2006

**Tester:** Nam Nguyen

**Signature:** On File

**Date:** 12/28/2006

## 1.2 EQUIPMENT UNDER TEST SPECIFICATION

### Description of Equipment Under Test

UPCS / LE-PCS Isochronous Device, Base & Handset, 1921.536 – 1928.448 MHz

### Characterization of Test Item

- ☒ Prototype
- ☐ Pre-production
- ☐ Production

### Construction of Equipment

- ☒ Single unit
- ☐ Multiple units (If multiple units describe each one clearly)

### Type of Equipment

- ☐ Fixed
- ☐ Mobile
- ☒ Portable Station

- |                                                     |                                            |                                                                         |
|-----------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Transmitter     | <input type="checkbox"/> Simplex           | <input checked="" type="checkbox"/> Integral antenna (Handset and Base) |
| <input type="checkbox"/> Receiver                   | <input checked="" type="checkbox"/> Duplex | <input type="checkbox"/> Single antenna connector                       |
| <input type="checkbox"/> Transceiver                |                                            | <input type="checkbox"/> Two antenna connector                          |
| <input checked="" type="checkbox"/> Battery Charger |                                            | <input type="checkbox"/> Vehicle battery adaptor                        |
| <input type="checkbox"/> Remote Control Head        |                                            |                                                                         |

### Family Model Numbers

Original Family:

Trade Name: Ascalade

Model Number: B209, B209H

Alternative Family 1:

Trade Name: Philips

Model Number: XL340XY/ZZ (XY, ZZ – any combination of wild digits from 0 –9 and/or wild numbers from A – Z)

### 1.2.1 Transmitter Technical Characteristics

Frequency characteristics (Method of frequency generation):

- ☐ Crystal
- ☒ Synthesizer
- ☐ Other

State the maximum number of channels over which the equipment can operate: N/A

Maximum rated transmitter output power: 70mW for the Base and 72mW for the Handset

### 1.2.2 Power Source (s)

- ☐ AC Supply:  
State voltage: \_\_\_\_\_ Single phase: \_\_\_\_ Three phase: \_\_\_\_  
AC supply frequency (Hz) \_\_\_\_\_
- ☒ External DC supply:  
Nominal voltage 2.4VDC NiMH rechargeable battery for Handset and 9VDC via a power adapter for Base
- ☐ Battery:  
☐ Nickel Cadmium  
☐ Lead acid  
☐ Leclanche  
☐ Lithium

[The following space is left bland on purpose)

### 1.3 RATIONAL FOR SELECTING TEST CONFIGURATION(S)

No deviation from technical specifications

### 1.4 DESCRIPTION ON HOW THE EUT WAS EXERCISED DURING TESTING

(e.g software description, test signal, etc.)

The EUT was set in continuous transmit mode of operation.

### 1.5 TEST STANDARDS

FCC Part 15, Subparts B, C, and D

IC RSS-213 & ICES-003

ANSI C63.17 - 1998 (or 2005 Draft where applicable)

ANSI C63.4 - 2003

### 1.6 TEST ENVIRONEMENT

Temperature

Normal test temperature (Tnom): 22 °C

Extreme test temperatures (Tmax): n/a °C

(Tmin): n/a °C

Relative Humidity 50 %

Details of power supply

Normal test voltage Handset (Vnom): 2.4 VDC

Base (Vnom): 9 VDC (from adapter)

Extreme test voltage (Vmax): Not Applicable

(Vmin): Not Applicable

## 2 TEST RESULTS

### 2.1 RADIATED PEAK TRANSMIT POWER

**Rule Parts No.:** 15.319 (c)

**Test procedure:** ANSI C63.17 section 6.1.2

**Technical requirements/Limits:** The peak transmit power shall not exceed  $100 \mu\text{W}$  multiplied by the square root of the emission bandwidth in hertz measured at 26dBc. The measured emissions bandwidth is 1.5 MHz max

$$\text{Limit} = 100\mu\text{W} * \sqrt{(\text{BW in Hz})} = 0.122\text{W} = 20.8 \text{ dBm}$$

and Radiated limit  $\leq 118 \text{ dB}\mu\text{V/m}$  at 3m by radiated measurement derived from Friis formula as follows  $P = (E*d)^2/30G$ , where  $P = 0.122 \text{ W} = 20.8 \text{ dBm}$

This assumes a  $G$  = Numeric gain of TX antenna = 1.585 (2.0 dBi) worst-case across band  
 $d = 3 \text{ m}$

Notes: The calculated limit of  $118 \text{ dB}\mu\text{V/m}$  assumes free space conditions. This device was measured on a typical test site (OATS) with a reference ground plane as described in ANSI C63.4. This maximum value was obtained with the EUT set up at a height of 80cm. Placing the EUT at a height of 100cm reduces the maximum amplitude measured by about 3-4dB.

**Test Conditions:** Power output measurements were performed on an Open Area Test Site at a distance of 3meter. The antenna for this device is integral. SA Settings:  
RBW  $\geq$  Emission BW (or increased until no more than 0.5 dB change in power), VBW  $\geq 3 \times$  RBW  
Span = zero, centered on channel center, Sweep: fast enough to resolve transmit pulse  
Detection: Peak

**Test Results:** The test data is presented in the following tables.

| Test Item: Base     | Applicant: Ascalade Technologies Inc. |                    |                   |              |                        |                       |
|---------------------|---------------------------------------|--------------------|-------------------|--------------|------------------------|-----------------------|
| Project: 3246AUT6   | Test Date: 12/21/2006                 |                    |                   |              |                        |                       |
| Tuned Frequency MHz | Emission Frequency MHz                | Meter Reading dBuV | Ant. Polarity V/H | Coax Loss dB | Correction Factor dB/m | Field Strength dBuV/m |
| 1,921.50            | 1,921.54                              | 77.7               | V                 | 2.84         | 30.73                  | 111.27                |
| 1,921.50            | 1,921.54                              | 81.3               | H                 | 2.84         | 30.73                  | 114.87                |
| 1,928.50            | 1,928.45                              | 77.2               | V                 | 2.84         | 30.77                  | 110.81                |
| 1,928.50            | 1,928.45                              | 80.5               | H                 | 2.84         | 30.77                  | 114.11                |

| Test Item: Handset  | Applicant: Ascalade Technologies Inc. |                    |                   |              |                        |                       |
|---------------------|---------------------------------------|--------------------|-------------------|--------------|------------------------|-----------------------|
| Project: 3247AUT6   | Test Date: 12/21/2006                 |                    |                   |              |                        |                       |
| Tuned Frequency MHz | Emission Frequency MHz                | Meter Reading dBuV | Ant. Polarity V/H | Coax Loss dB | Correction Factor dB/m | Field Strength dBuV/m |
| 1,921.50            | 1,921.54                              | 83.4               | V                 | 2.84         | 30.73                  | 116.97                |
| 1,921.50            | 1,921.54                              | 77.9               | H                 | 2.84         | 30.73                  | 111.47                |
| 1,928.50            | 1,928.45                              | 82                 | V                 | 2.84         | 30.77                  | 115.61                |
| 1,928.50            | 1,928.45                              | 79                 | H                 | 2.84         | 30.77                  | 112.61                |

## **2.2 TRANSMITTER SPURIOUS EMISSIONS**

**Rule Parts No.:** Pt 15.319 (g) and Pt 15.323(d)

**Test procedure:** ANSI C63.17 section 6.1.1

**Technical requirements/Limits:** 15.319(g) Notwithstanding other technical requirements specified in this subpart, attenuation of emissions below the general emission limits in Section 15.209 is not required. 15.323(d) Emissions outside the sub-band shall be attenuated below a reference power of 112 milliwatts as follows: 30 dB between the sub-band and 1.25 MHz above or below the sub-band; 50 dB between 1.25 and 2.5 MHz above or below the sub-band; and 60 dB at 2.5 MHz or greater above or below the subband. Compliance with the emission limits is based on the use of measurement instrumentation employing peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

**Test Conditions:** Lowest and Highest channel only. Radiated on an Open Area Test Site at a distance of 3meter.

**Test Results:** The test data is presented in the following tables.

| Test Item: Base     | Ascalade Technologies Inc. |                    |                   |                       |                        |                       |       |
|---------------------|----------------------------|--------------------|-------------------|-----------------------|------------------------|-----------------------|-------|
| Project: 3246AUT6   | 12/21/2006                 |                    |                   |                       |                        |                       |       |
| Tuned Frequency MHz | Emission Frequency MHz     | Meter Reading dBuV | Ant. Polarity V/H | Coax & Filter Loss dB | Correction Factor dB/m | Field Strength dBuV/m | dBc   |
| 1,921.50            | 3843.08                    | 5.7                | V                 | 5.5                   | 33.57                  | 44.77                 | 70.1  |
| 1,921.50            | 3843.08                    | 8.3                | H                 | 5.5                   | 33.57                  | 47.37                 | 67.5  |
| 1,921.50            | 5764.62                    | 6.1                | V                 | 8.23                  | 35.42                  | 49.75                 | 65.12 |
| 1,921.50            | 5764.62                    | 7.4                | H                 | 8.23                  | 35.42                  | 51.05                 | 63.82 |
| 1,928.50            | 3856.9                     | 7.5                | V                 | 5.67                  | 33.59                  | 46.76                 | 67.35 |
| 1,928.50            | 3856.9                     | 8.2                | H                 | 5.67                  | 33.59                  | 47.46                 | 66.65 |
| 1,928.50            | 5785.35                    | 6.2                | V                 | 8.6                   | 35.44                  | 50.24                 | 63.87 |
| 1,928.50            | 5785.35                    | 6.9                | H                 | 8.6                   | 35.44                  | 50.94                 | 63.17 |

- The limit for all harmonic emissions are = 60dBc.

| Test Item: Handset  | Ascalade Technologies Inc. |                    |                   |                       |                        |                       |       |
|---------------------|----------------------------|--------------------|-------------------|-----------------------|------------------------|-----------------------|-------|
| Project: 3247AUT6   | 12/21/2006                 |                    |                   |                       |                        |                       |       |
| Tuned Frequency MHz | Emission Frequency MHz     | Meter Reading dBuV | Ant. Polarity V/H | Coax & Filter Loss dB | Correction Factor dB/m | Field Strength dBuV/m | dBc   |
| 1,921.50            | 3843.08                    | 5.7                | V                 | 5.5                   | 33.57                  | 44.77                 | 72.2  |
| 1,921.50            | 3843.08                    | 6.4                | H                 | 5.5                   | 33.57                  | 45.47                 | 71.5  |
| 1,921.50            | 5764.62                    | 3.3                | V                 | 8.23                  | 35.42                  | 46.95                 | 70.02 |
| 1,921.50            | 5764.62                    | 5.2                | H                 | 8.23                  | 35.42                  | 48.85                 | 68.12 |
| 1,928.50            | 3856.9                     | 5.0                | V                 | 5.67                  | 33.59                  | 44.26                 | 71.35 |
| 1,928.50            | 3856.9                     | 7.0                | H                 | 5.67                  | 33.59                  | 46.26                 | 69.35 |
| 1,928.50            | 5785.35                    | 4.7                | H                 | 8.6                   | 35.44                  | 48.74                 | 66.87 |
| 1,928.50            | 5785.35                    | 5.6                | V                 | 8.6                   | 35.44                  | 49.64                 | 65.97 |

- The limit for all harmonic emissions are = 60dBc.

## 2.3 GENERAL RADIATED SPURIOUS EMISSIONS

### 2.3.1 Radiated Spurious Emissions

**Rule Parts No.:** 15.109, 15.33, and 15.31

**Test procedure:** ANSI C63.4 - 2003

**Technical requirements/Limits:**

| Emission Frequency<br>(MHz) | Field Strength   |                | At Distance<br>(m) | Detector Type                                |
|-----------------------------|------------------|----------------|--------------------|----------------------------------------------|
|                             | ( $\mu$ V/m)     | (dB $\mu$ V/m) |                    |                                              |
| 0.009 – 0.490               | 2400/f<br>(kHz)  | 67.6 /<br>kHz  | 300                | AV (9-90 kHz,<br>110-490 kHz)<br>QP (others) |
| 0.490 – 1.705               | 24000/f<br>(kHz) | 87.6 /<br>kHz  | 30                 | QP                                           |
| 1.705 – 30.0                | 30               | 29.5           | 30                 | QP                                           |
| 30 – 88                     | 100              | 40             | 3                  | QP                                           |
| 88 – 216                    | 150              | 43.5           | 3                  | QP                                           |
| 216 – 960                   | 200              | 46             | 3                  | QP                                           |
| > 960                       | 500              | 54             | 3                  | AV (> 1GHz)                                  |

**Test Conditions:** Lowest and Highest channel only. Radiated on an Open Area Test Site at a distance of 3meter. PK: RBW  $\geq$  100 kHz for  $f < 1$  GHz, 1 MHz for  $f \geq 1$  GHz, VBW  $\geq$  RBW  
Avg: RBW = 1 MHz for  $f \geq 1$  GHz, VBW = 10Hz, Linear average. If the emission is pulsed, the device was modified for continuous operations, and the average level was calculated according to part 15.35(c).

**Test Results:**

| Base in Stand-by Mode     |                       |                      |                 |                           |                          |                  |
|---------------------------|-----------------------|----------------------|-----------------|---------------------------|--------------------------|------------------|
| Emission Frequency<br>MHz | Meter Reading<br>dBuV | Ant. Polarity<br>V/H | Coax Loss<br>dB | Correction Factor<br>dB/m | Field Strength<br>dBuV/m | Margin<br>dBuV/m |
| 36.32                     | 11                    | H                    | 0.43            | 11.92                     | 23.35                    | 16.65            |
| 45.79                     | 10.5                  | V                    | 0.48            | 10.26                     | 21.24                    | 18.76            |
| 54.76                     | 11                    | V                    | 0.52            | 11.77                     | 23.29                    | 16.71            |
| 65.88                     | 14.7                  | H                    | 0.55            | 9.9                       | 25.15                    | 14.85            |
| 76.3                      | 10.5                  | V                    | 0.59            | 6.77                      | 17.86                    | 22.14            |
| 94.98                     | 12.3                  | V                    | 0.64            | 10.7                      | 23.64                    | 19.86            |

[Continued]

| Base in Stand-by Mode  |                    |                   |              |                        |                       |               |
|------------------------|--------------------|-------------------|--------------|------------------------|-----------------------|---------------|
| Emission Frequency MHz | Meter Reading dBuV | Ant. Polarity V/H | Coax Loss dB | Correction Factor dB/m | Field Strength dBuV/m | Margin dBuV/m |
| 101.24                 | 10.7               | H                 | 0.65         | 11.52                  | 22.87                 | 20.63         |
| 128.54                 | 10.9               | H                 | 0.68         | 13.13                  | 24.71                 | 18.79         |
| 145.58                 | 10.7               | V                 | 0.7          | 13.23                  | 24.63                 | 18.87         |
| 153.84                 | 11.8               | V                 | 0.72         | 14.43                  | 26.95                 | 16.55         |
| 184.66                 | 11.8               | H                 | 0.84         | 17.07                  | 29.71                 | 13.79         |
| 235.01                 | 12.9               | V                 | 0.97         | 11.35                  | 25.22                 | 20.78         |
| 235.06                 | 12.8               | H                 | 0.97         | 11.9                   | 25.67                 | 20.33         |
| 256.76                 | 14.8               | H                 | 1.01         | 12.87                  | 28.68                 | 17.32         |
| 317.98                 | 13                 | H                 | 1.12         | 15.42                  | 29.54                 | 16.46         |
| 345.58                 | 16.9               | H                 | 1.15         | 15.16                  | 33.21                 | 12.79         |
| 345.62                 | 13.8               | V                 | 1.15         | 14.56                  | 29.51                 | 16.49         |
| 373.2                  | 18.5               | H                 | 1.17         | 15.26                  | 34.93                 | 11.07         |
| 373.24                 | 16.4               | V                 | 1.17         | 14.8                   | 32.37                 | 13.63         |
| 400.92                 | 12.8               | V                 | 1.2          | 16.02                  | 30.02                 | 15.98         |
| 463.12                 | 11.1               | V                 | 1.26         | 16.9                   | 29.26                 | 16.74         |
| 539.16                 | 14.8               | V                 | 1.42         | 18.2                   | 34.42                 | 11.58         |
| 566.76                 | 11.4               | H                 | 1.5          | 19.24                  | 32.14                 | 13.86         |
| 649.76                 | 12                 | H                 | 1.65         | 19.9                   | 33.55                 | 12.45         |
| 896.34                 | 11.1               | V                 | 1.95         | 22.23                  | 35.28                 | 10.72         |
| 945.89                 | 11.7               | V                 | 2.02         | 22.9                   | 36.62                 | 9.38          |

| Handset in Stand-By Mode |                    |                   |              |                        |                       |               |
|--------------------------|--------------------|-------------------|--------------|------------------------|-----------------------|---------------|
| Emission Frequency MHz   | Meter Reading dBuV | Ant. Polarity V/H | Coax Loss dB | Correction Factor dB/m | Field Strength dBuV/m | Margin dBuV/m |
| 30.54                    | 12.6               | H                 | 0.4          | 13.62                  | 26.62                 | 13.38         |
| 36.3                     | 12.5               | V                 | 0.43         | 10.29                  | 23.22                 | 16.78         |
| 46.6                     | 14                 | V                 | 0.48         | 10.42                  | 24.9                  | 15.1          |
| 76.44                    | 10.3               | H                 | 0.59         | 6.88                   | 17.77                 | 22.23         |
| 82.91                    | 11.5               | V                 | 0.61         | 7.34                   | 19.45                 | 20.55         |
| 85.92                    | 12.2               | H                 | 0.61         | 7.38                   | 20.19                 | 19.81         |
| 138.28                   | 10.8               | H                 | 0.69         | 13.1                   | 24.59                 | 18.91         |
| 145.66                   | 10.9               | V                 | 0.7          | 13.25                  | 24.85                 | 18.65         |
| 152.07                   | 15.7               | H                 | 0.71         | 14.19                  | 30.6                  | 12.9          |
| 165.88                   | 15.6               | H                 | 0.76         | 14.61                  | 30.97                 | 12.53         |
| 182.98                   | 11.6               | H                 | 0.83         | 16.9                   | 29.33                 | 14.17         |
| 184.95                   | 10.2               | V                 | 0.84         | 17.3                   | 28.34                 | 15.16         |

[Continued]

| Handset in Stand-By Mode |                    |                   |              |                        |                       |               |
|--------------------------|--------------------|-------------------|--------------|------------------------|-----------------------|---------------|
| Emission Frequency MHz   | Meter Reading dBuV | Ant. Polarity V/H | Coax Loss dB | Correction Factor dB/m | Field Strength dBuV/m | Margin dBuV/m |
| 207.04                   | 10.6               | V                 | 0.91         | 11.37                  | 22.88                 | 20.62         |
| 235.06                   | 12.5               | H                 | 0.97         | 11.9                   | 25.37                 | 20.63         |
| 246.52                   | 11.2               | V                 | 0.99         | 12.22                  | 24.41                 | 21.59         |
| 262.6                    | 13.7               | V                 | 1.03         | 12.73                  | 27.46                 | 18.54         |
| 262.7                    | 19.4               | H                 | 1.03         | 13.11                  | 33.54                 | 12.46         |
| 317.93                   | 17.5               | H                 | 1.12         | 15.43                  | 34.05                 | 11.95         |
| 317.96                   | 15.2               | V                 | 1.12         | 15.24                  | 31.56                 | 14.44         |
| 345.58                   | 15.6               | V                 | 1.15         | 14.56                  | 31.31                 | 14.69         |
| 345.62                   | 18.9               | H                 | 1.15         | 15.16                  | 35.21                 | 10.79         |
| 373.28                   | 14.8               | V                 | 1.17         | 14.8                   | 30.77                 | 15.23         |
| 456.21                   | 19.5               | V                 | 1.26         | 16.86                  | 37.62                 | 8.38          |
| 483.83                   | 18.5               | V                 | 1.28         | 17.33                  | 37.11                 | 8.89          |
| 483.86                   | 16.7               | H                 | 1.28         | 18.15                  | 36.13                 | 9.87          |
| 511.48                   | 15.1               | V                 | 1.33         | 18.06                  | 34.49                 | 11.51         |

### 2.3.2 AC Power Lines Conducted Spurious Emissions

**Rule Parts No.:** Pt 15.315, Pt 15.207, Pt 15.107, Pt 15.31, RSS-GEN, ICES-003

**Test procedure:** ANSI C63.4 - 2003

**Technical requirements/Limits:**

#### FCC

| Emission Frequency<br>(MHz)                      | FCC Conducted Limit (dBμV) |              |
|--------------------------------------------------|----------------------------|--------------|
|                                                  | Quasi-peak (QP)            | Average (AV) |
| 0.15 - 0.5                                       | 66 to 56 *                 | 56 to 46 *   |
| 0.5 - 5                                          | 56                         | 46           |
| 5 - 30                                           | 60                         | 50           |
| * Decreases with the logarithm of the frequency. |                            |              |

IC 250 μV (48 dBμV) within 0.45-30 MHz using CISPR method of measurement

#### **Test Conditions:**

PK and QP (detector): RBW = 10kHz VBW > RBW  
Average: RBW = 10kHz VBW = 10Hz

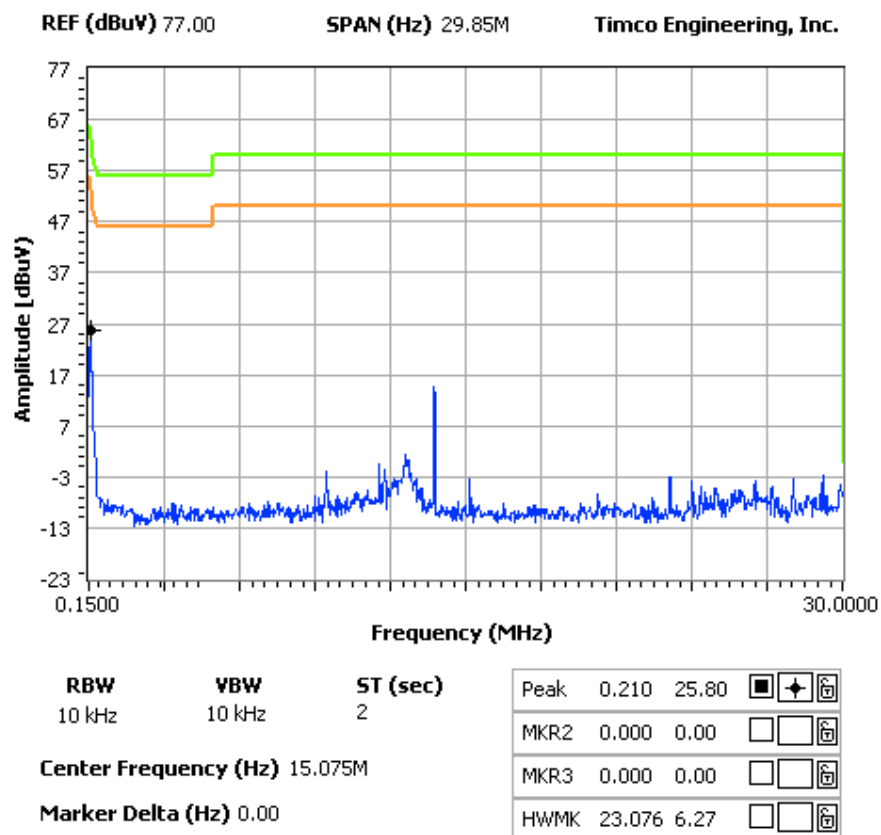
## Test Results:

Base is connected to power source through adapter.  
Power Line 1

### NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:  
 POWER LINES CONDUCTED PLOT - LINE 1 (BASE)

### FCC 15.107 Mask Class B

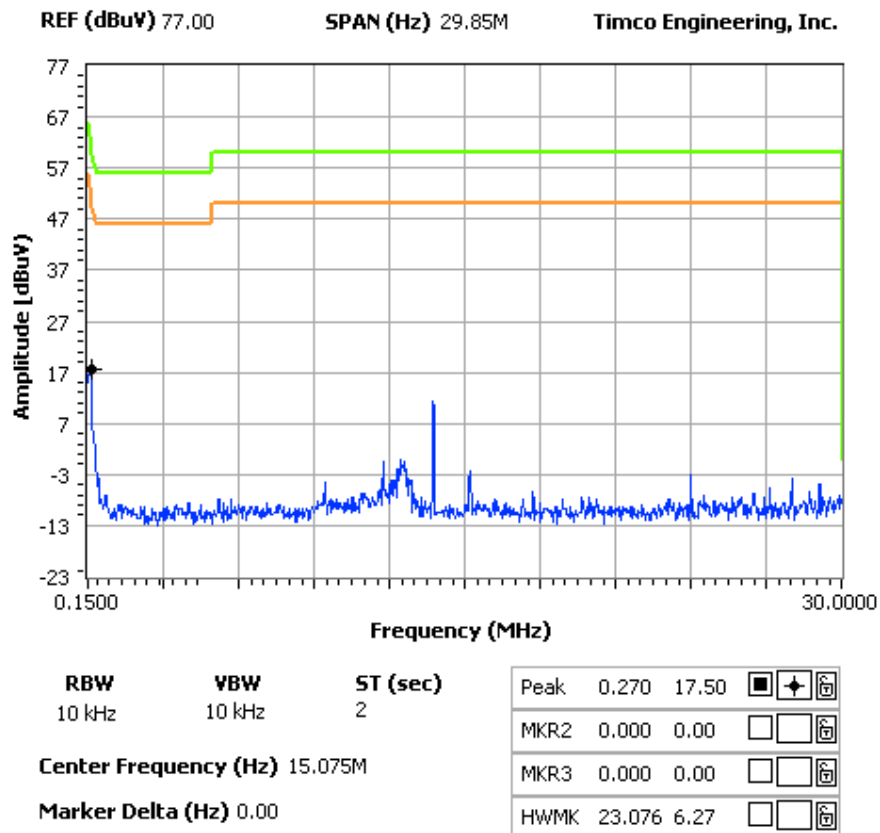


## Power Line 2

### NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:  
POWER LINES CONDUCTED PLOT - LINE 2 (BASE)

### FCC 15.107 Mask Class B



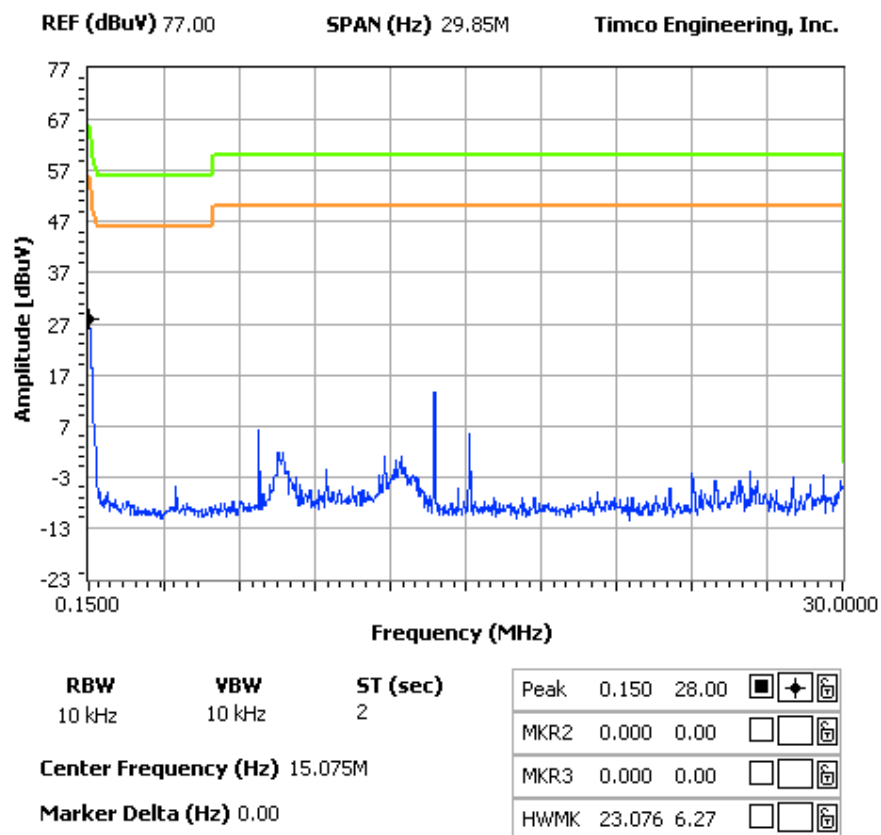
Base is connected to power source and holding the handset.

### Power Line 1

#### NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:  
POWER LINES CONDUCTED PLOT - LINE 1 (BASE + HANDSET)

#### FCC 15.107 Mask Class B

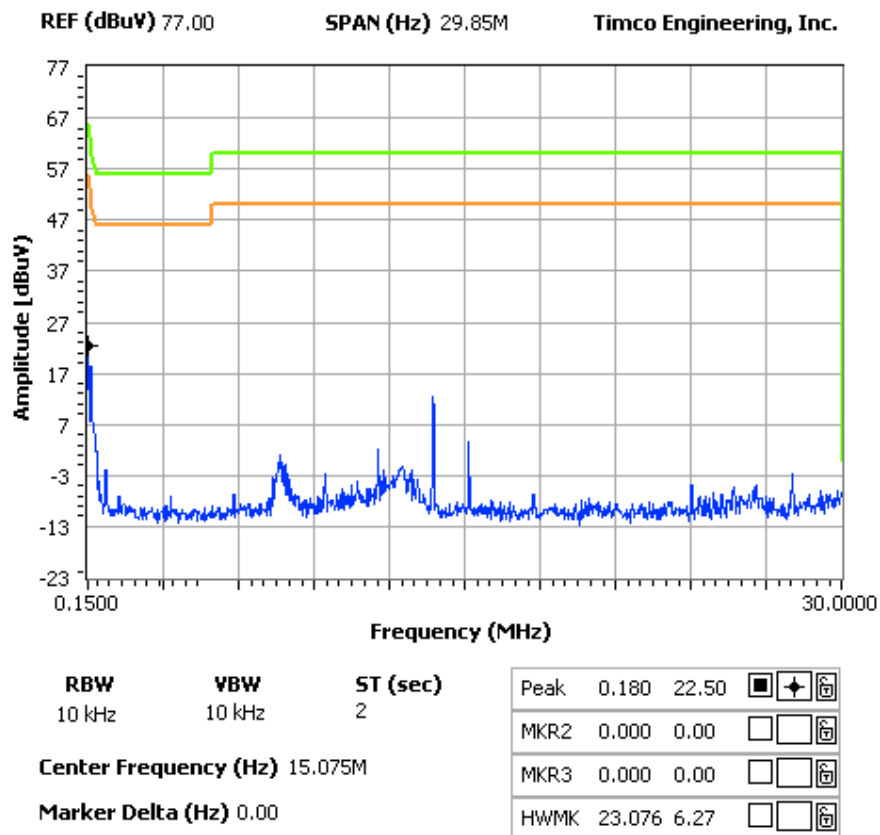


## Power Line 2

### NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:  
POWER LINES CONDUCTED PLOT - LINE 2 (BASE + HANDSET)

### FCC 15.107 Mask Class B



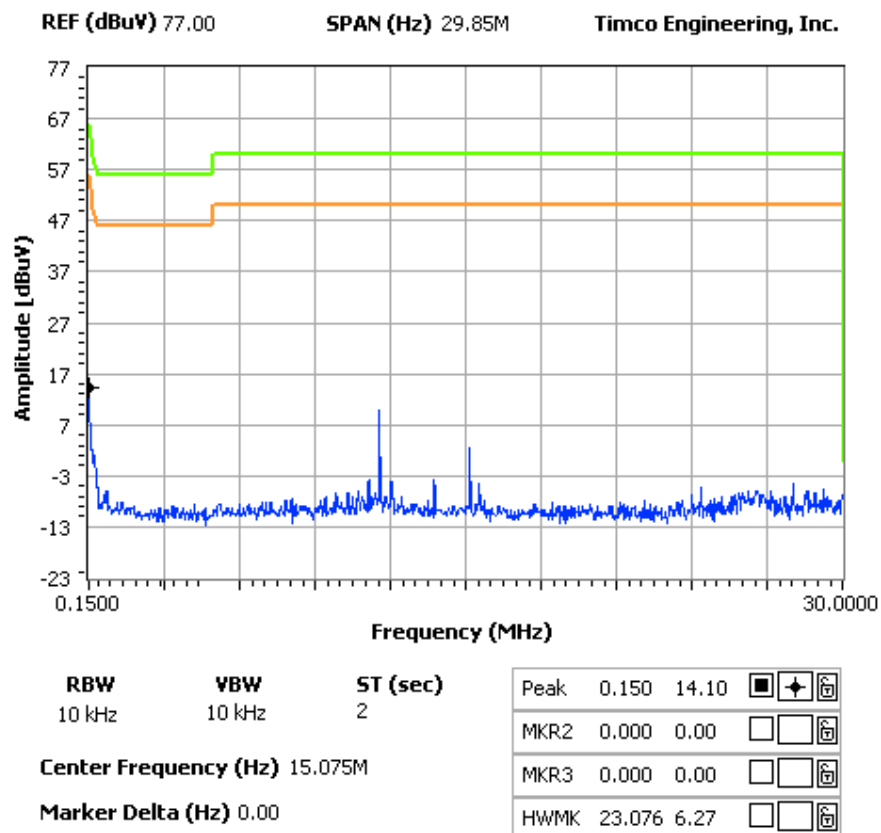
Phone (Handset) is on the charger, which is connected to power source.

### Power Line 1

#### NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:  
POWER LINES CONDUCTED PLOT - LINE 1 (HANDSET)

#### FCC 15.107 Mask Class B

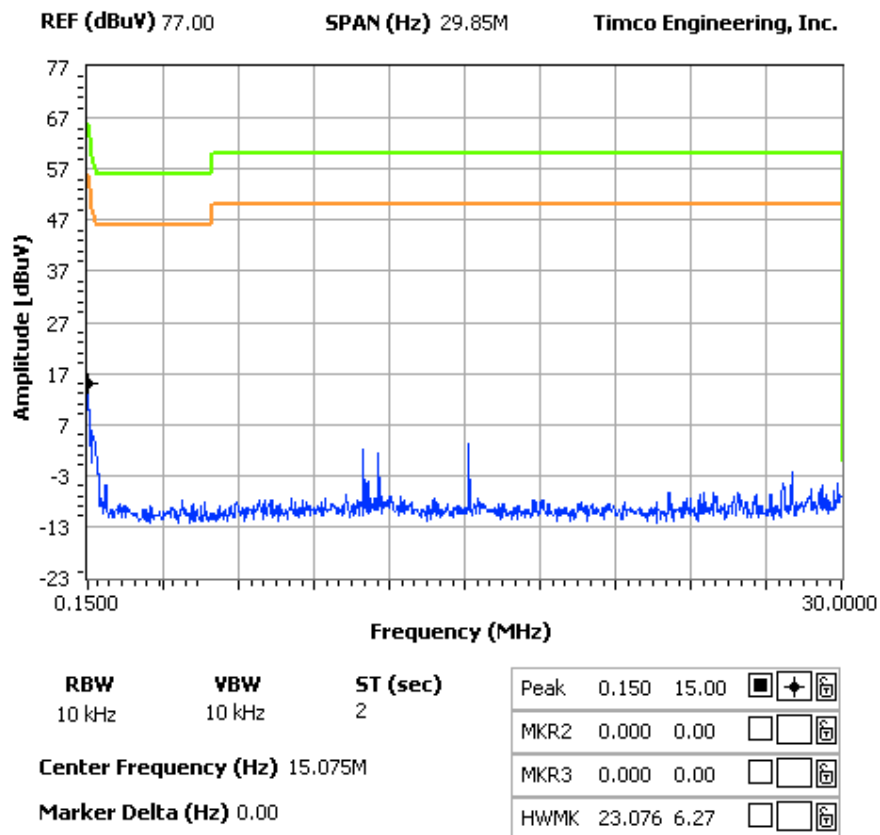


## Power Line 2

### NOTES:

ASCALADE TECHNOLOGIES INC. - FCC ID:  
POWER LINES CONDUCTED PLOT - LINE 2 (HANDSET)

### FCC 15.107 Mask Class B



### 3 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

| Device                        | Manufacturer    | Model    | Serial Number            | Cal/Char Date     | Due Date |
|-------------------------------|-----------------|----------|--------------------------|-------------------|----------|
| 3/10-Meter OATS               | TEI             | N/A      | N/A                      | Listed<br>3/27/04 | 3/26/07  |
| 3-Meter OATS                  | TEI             | N/A      | N/A                      | Listed<br>1/13/06 | 1/12/09  |
| Biconnical Antenna            | Eaton           | 94455-1  | 1057                     | CAL<br>3/18/05    | 3/18/07  |
| Biconnical Antenna            | Eaton           | 94455-1  | 1096                     | CAL<br>8/17/06    | 8/17/04  |
| Biconnical Antenna            | Electro-Metrics | BIA-25   | 1171                     | CAL<br>4/29/05    | 4/29/07  |
| Blue Tower Quasi-Peak Adapter | HP              | 85650A   | 2811A01279               | CAL<br>4/13/05    | 4/13/07  |
| Blue Tower RF Preselector     | HP              | 85685A   | 2926A00983               | CAL<br>4/13/05    | 4/13/07  |
| Blue Tower Spectrum Analyzer  | HP              | 8568B    | 2928A04729<br>2848A18049 | CAL<br>4/13/05    | 4/13/07  |
| Double-Ridged Horn Antenna    | Electro-Metrics | RGA-180  | 2319                     | CAL<br>12/29/06   | 12/29/08 |
| LISN                          | Electro-Metrics | ANS-25/2 | 2604                     | CAL<br>8/27/06    | 8/27/08  |
| LISN                          | Electro-Metrics | EM-7820  | 2682                     | CAL<br>4/28/05    | 4/28/07  |
| Log-Periodic Antenna          | Eaton           | 96005    | 1243                     | CAL 5/8/05        | 5/8/07   |