



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

## TEST REPORT

### 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**

**APPLICANT:** ASCALADE TECHNOLOGIES INC.  
12051 RIVERSIDE WAY  
RICHMOND, B.C. V6W 1K7, CANADA  
Tel.: 1-604-241-7991  
Mr. Kevin Yau, Quality Manager

**MODEL NUMBER:** B154U and CIT200 (Base & Handset)  
B154UC and CIT200C (Handset Charger)

**DESCRIPTION OF  
PRODUCT:** 1.9 GHz VoIP Cordless DECT USB Telephone

**FCC IDs:** PBWDT19R26 (Base - Ascalade), PBWDT19R26H – (Handset – Ascalade) Q87-CIT200 (Linksys)

**IC:** 3842A- DT19R26 (Ascalade),  
3839A-CIT200 (Linksys)

**DATE SAMPLE  
RECEIVED FOR TESTING:** 7/05/05

**DATE TESTED:** 7/5 - 7/19/05

**TEST RESULTS:**  PASS  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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**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5



## 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.

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: BRUNO CLAVIER**

**Signature: <ON FILE>**

**Function: CHIEF ENGINEER**

**Date: 7/25/2005**

**Test engineer name: NAM NGUYEN**

**Signature: <ON FILE>**

**Date: 7/25/2005**

**APPLICANT: ASCALADE TECHNOLOGIES INC.**

**FCC ID: PBWDT19R26**

**MODEL #: B154U AND CIT200**

**REPORT #: 920AUT5**

## 1.2 EQUIPMENT UNDER TEST SPECIFICATION

### 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

X	Transmitter		Simplex	X	Integral antenna (Handset and Base)
	Receiver	X	Duplex		Single antenna connector
	Transceiver				Two antenna connector
X	Battery charger				Vehicle battery adaptor
	Remote Control Head				

### 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:** \_\_\_\_\_

**MAXIMUM RATED TRANSMITTER OUTPUT POWER:** \_85mW for the Base and 80mW 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 5VDC via USB port from PC for Base

**BATTERY:** Nickel Cadmium  Lead acid  Leclanche  Lithium

### 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.

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## 1.5 TEST STANDARDS

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

## 2 TEST ENVIRONEMENT

### Temperature

Normal test temperature (T<sub>nom</sub>): 22 °C  
Extreme test temperatures (T<sub>max</sub>): n/a °C  
(T<sub>min</sub>): n/a °C

**Relative Humidity** 50 %

### Details of power supply

Normal test voltage Handset (V<sub>nom</sub>): 2.4    VDC  
Base (V<sub>nom</sub>): 5    VDC (from PC USB port)

Extreme test voltage (V<sub>max</sub>):    VDC  
(V<sub>min</sub>):    VDC

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### 3 TEST RESULTS

#### 3.1 RADIATED PEAK TRANSMIT POWER

**Clause:** 15.319 (c)

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

**Technical requirements/Limits:**

The peak transmit power shall not exceed 100  $\mu$ 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 dB $\mu$ 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 dB $\mu$ 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:

$\text{RBW} \geq \text{Emission BW}$  (or increased until no more than 0.5 dB change in power),  $\text{VBW} \geq 3 \times \text{RBW}$   
 $\text{Span} = \text{zero}$ , centered on channel center, Sweep: fast enough to resolve transmit pulse

Detection: Peak

**Results:**

##### 3.1.1 BASE:

BASE	Ascalade Technologies Inc.						
920AUT5	7/5/2005						
Tuned Frequency MHz	Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB	Field Strength dBuV/m	
1,921.50	1,921.54	76.3	V	2.84	30.73	109.87	
1,921.50	1,921.54	83.3	H	2.84	30.73	116.87	
1,928.50	1,928.45	76.2	V	2.84	30.77	109.81	
1,928.50	1,928.45	82.3	H	2.84	30.77	115.91	

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**3.1.2 HANDSET:**

<b>HANDSET</b>	<b>Ascalade Technologies Inc.</b>					
<b>920AUT5</b>	<b>7/5/2005</b>					
<b>Tuned Frequency MHz</b>	<b>Emission Frequency MHz</b>	<b>Meter Reading dBuV</b>	<b>Ant. Polarity</b>	<b>Coax Loss dB</b>	<b>Correction Factor dB</b>	<b>Field Strength dBuV/m</b>
<b>1,921.50</b>	<b>1,921.54</b>	<b>84.3</b>	<b>V</b>	<b>1.7</b>	<b>31.0</b>	<b>117.0</b>
<b>1,921.50</b>	<b>1,921.54</b>	<b>77.2</b>	<b>H</b>	<b>1.7</b>	<b>31.0</b>	<b>109.9</b>
<b>1,928.50</b>	<b>1,928.45</b>	<b>83.5</b>	<b>V</b>	<b>1.7</b>	<b>31.0</b>	<b>116.2</b>
<b>1,928.50</b>	<b>1,928.45</b>	<b>79</b>	<b>H</b>	<b>1.7</b>	<b>31.0</b>	<b>111.7</b>

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**TRANSMITTER SPURIOUS EMISSIONS**
**Clause:** 15.319 (g) and 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.

**Results:**
**3.1.3 BASE:**

CH 5

			CH 1		
Emission MHz	V dBuV/m	H dBuV/m	Emission MHz	V dBuV/m	H dBuV/m
3843.08	*	*	3856.90	*	*
5764.62	*	*		*	*
7686.16	*	*		*	*
9607.70	*	*		*	*
11529.24	*	*		*	*
13450.78	*	*		*	*
15372.32	*	*		*	*
17293.86	*	*		*	*
19215.40	*	*		*	*

\* Noise floor. All harmonic emissions are &gt;60dBc.

**3.1.4 HANDSET:**

CH 5

			CH 1		
Emission MHz	V dBuV/m	H dBuV/m	Emission MHz	V dBuV/m	H dBuV/m
3843.08	*	*	3856.90	*	*
5764.62	*	*		*	*
7686.16	*	*		*	*
9607.70	*	*		*	*
11529.24	*	*		*	*
13450.78	*	*		*	*
15372.32	*	*		*	*
17293.86	*	*		*	*
19215.40	*	*		*	*

- Noise floor. All harmonic emissions are >60dBc.

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### 3.2 GENERAL RADIATED SPURIOUS EMISSIONS

#### 3.2.1 RADIATED SPURIOUS EMISSIONS

**Clause:** 15.109, 15.33, and 15.31

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

**Technical requirements/Limits:**

Emission Frequency (MHz)	Field Strength		At Distance (m)	Detector Type
	( $\mu$ V/m)	(dB $\mu$ V/m)		
0.009 – 0.490	2400/f (kHz)	67.6 / kHz	300	AV (9-90 kHz, 110-490 kHz) QP (others)
0.490 – 1.705	24000/f (kHz)	87.6 / 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)

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**Results:**
**3.2.2 BASE IN STAND-BY MODE:**

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB/m	Field Strength dBuV/m	Margin dB
48	6.7	V	0.49	10.7	17.89	22.11
77.19	7.2	V	0.59	6.76	14.55	25.45
80.7	6.5	V	0.6	6.85	13.95	26.05
81.7	7.2	H	0.6	6.8	14.6	25.4
90.12	8.1	H	0.63	8.23	16.96	26.54
97.28	9.2	V	0.64	11.11	20.95	22.55
103.65	10.4	H	0.65	11.57	22.62	20.88
103.65	10.5	V	0.65	11.75	22.9	20.6
143.9	9.3	H	0.69	13.41	23.4	20.1
144	6.4	V	0.69	13.04	20.13	23.37
191.97	6.7	H	0.87	17.44	25.01	18.49
247.89	6	V	1	12.33	19.33	26.67
363.98	5.7	H	1.16	15.14	22	24
381.37	7.5	V	1.18	14.9	23.58	22.42
390.89	7.5	V	1.19	15.54	24.23	21.77
405.78	6.7	H	1.21	16.27	24.18	21.82
419.48	9.8	V	1.22	16.29	27.31	18.69

**3.2.3 HANDSET IN STAND-BY MODE:**

Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB/m	Field Strength dBuV/m	Margin dB
42.00	15.4	H	0.46	11.32	27.18	12.82
42.00	15.8	V	0.46	9.86	26.12	13.88
47.40	18.1	V	0.49	10.58	29.17	10.83
47.40	18.2	H	0.49	11.20	29.89	10.11
54.48	15.9	H	0.51	11.20	27.61	12.39
54.48	16.3	V	0.51	11.73	28.54	11.46
63.95	18.0	H	0.55	10.39	28.94	11.06
63.95	19.3	V	0.55	9.84	29.69	10.31
71.95	14.6	H	0.57	7.91	23.08	16.92
71.95	14.9	V	0.57	7.23	22.70	17.30
77.98	14.4	V	0.59	6.74	21.73	18.27
77.98	14.5	H	0.59	6.76	21.85	18.15
86.50	13.1	H	0.62	7.50	21.22	18.78
86.50	13.4	V	0.62	8.31	22.33	17.67
103.95	8.4	H	0.65	11.58	20.63	22.87
103.95	8.5	V	0.65	11.76	20.91	22.59
352.75	6.6	V	1.15	14.66	22.41	23.59
400.00	6.6	V	1.20	16.00	23.80	22.20

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Emission Frequency MHz	Meter Reading dBuV	Ant. Polarity	Coax Loss dB	Correction Factor dB/m	Field Strength dBuV/m	Margin dB
419.49	6.8	H	1.22	16.68	24.70	21.30
419.49	8.0	V	1.22	16.29	25.51	20.49
460.08	6.0	H	1.26	17.40	24.66	21.34
497.83	7.1	H	1.30	18.71	27.11	18.89

**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5

### **3.2.4 AC POWER LINES CONDUCTED SPURIOUS EMISSIONS:**

**Clause:** 15.315, 15.207, 15.107, 15.31

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

**Technical requirements/Limits:**

**FCC:**

Emission Frequency (MHz)	FCC Conducted Limit (dB $\mu$ V)	
	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  $\mu$ V (48 dB $\mu$ V) within 0.45-30 MHz using CISPR method of measurement

**Test Conditions:**

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

Avg: RBW = 10kHz VBW = 10Hz

**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

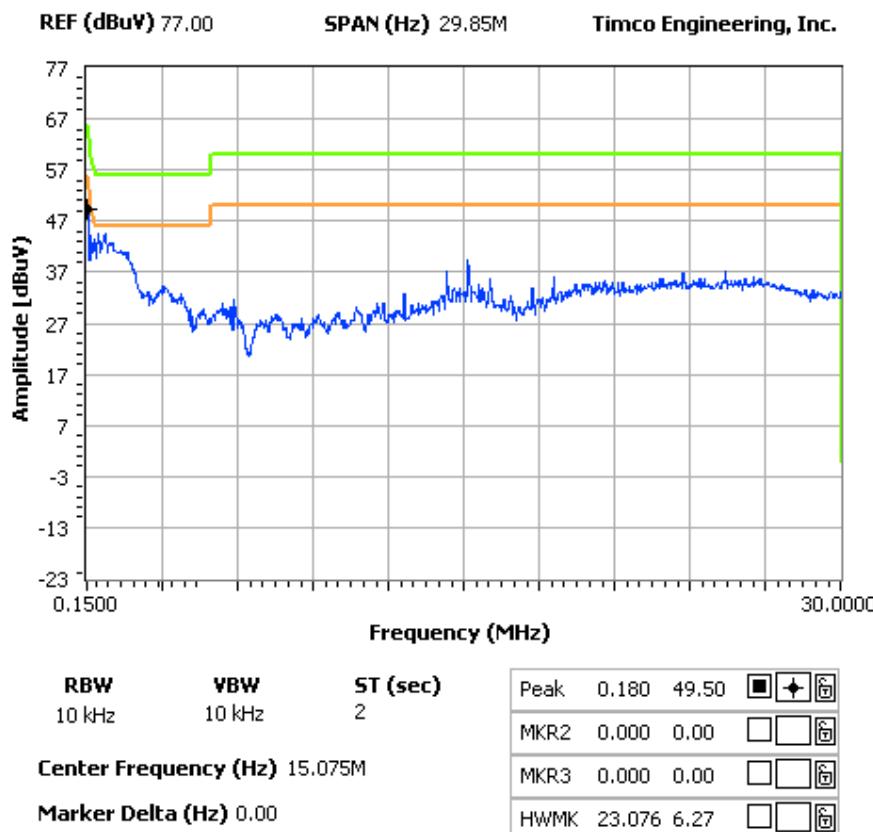
**REPORT #:** 920AUT5

**Results:**

Base is connected to laptop which is connecting to power source.  
 LINE 1:

**NOTES:**

 ASCALADE TECHNOLOGIES INC. - 1.9 GHz DECT TELEPHONE  
 POWERLINE CONDUCTED PLOT - LINE 1 (BASE IN STANDBY MODE)

**FCC 15.207 Mask Class B**

**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

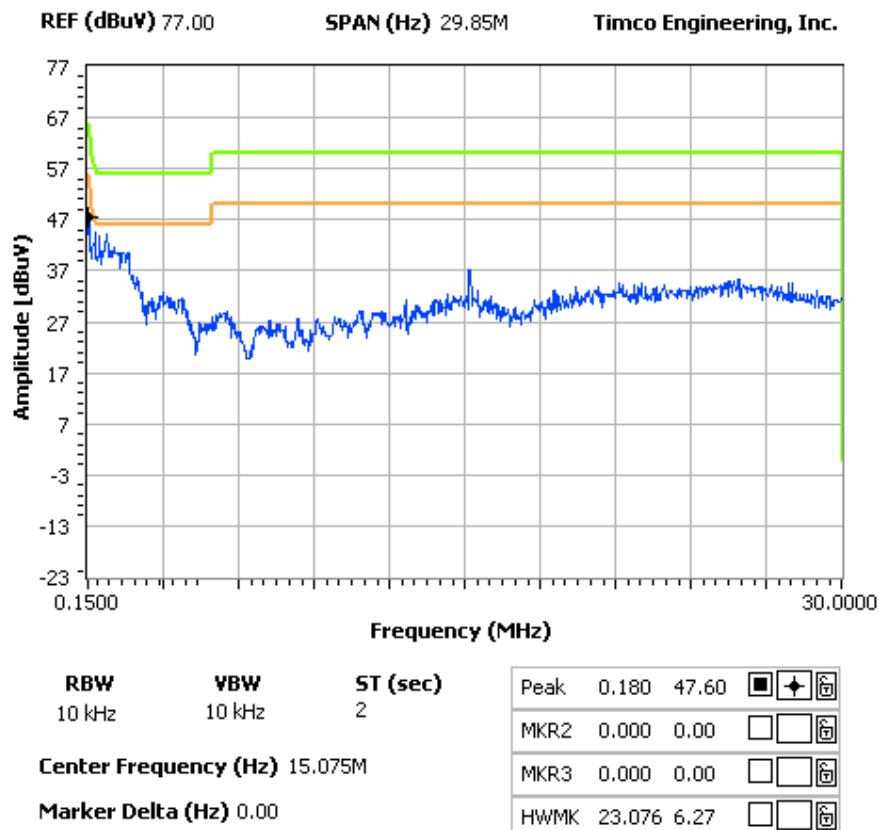
**REPORT #:** 920AUT5

LINE 2:

**NOTES:**

ASCALADE TECHNOLOGIES INC. - 1.9 GHz DECT TELEPHONE  
 POWERLINE CONDUCTED PLOT - LINE 2 (BASE IN STANDBY MODE)

**FCC 15.207 Mask Class B**



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5

Base is connected to laptop, which is connected to power source.

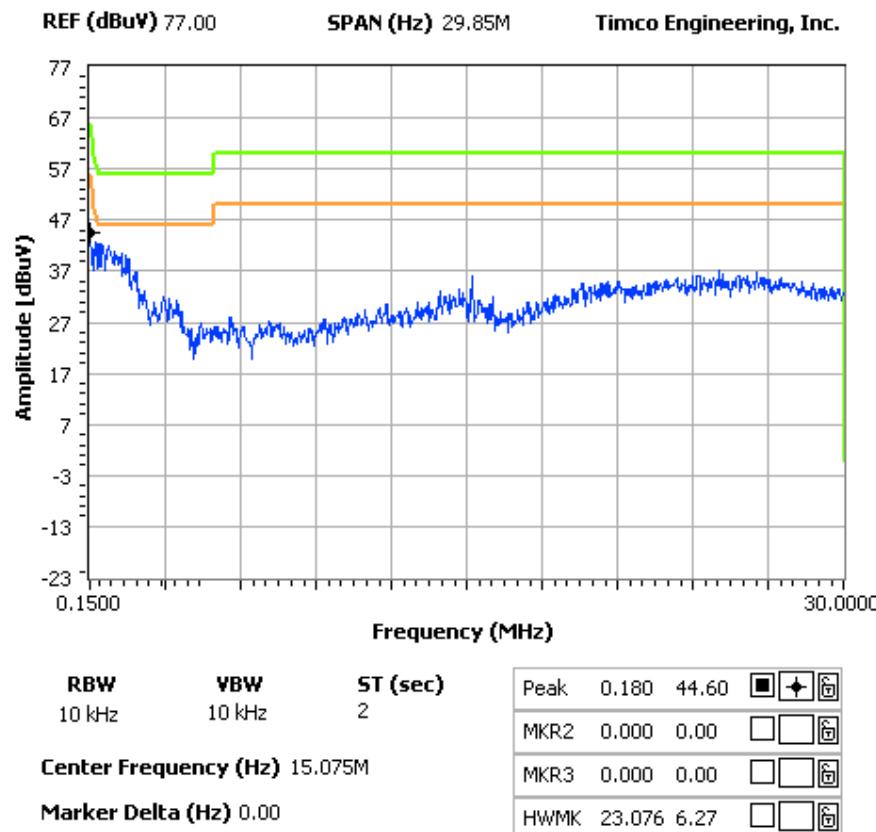
Base is in test mode.

LINE 1:

**NOTES:**

ASCALADE TECHNOLOGIES INC. - 1.9 GHz DECT TELEPHONE  
 POWERLINE CONDUCTED PLOT - LINE 1 (BASE IN TEST MODE)

**FCC 15.207 Mask Class B**



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

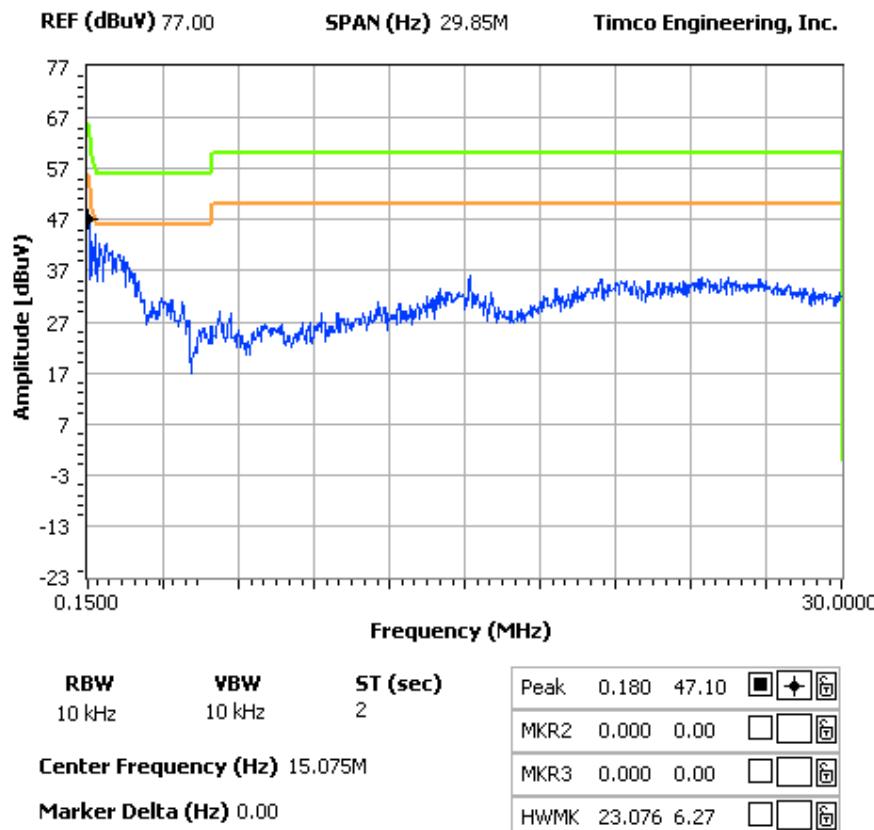
**REPORT #:** 920AUT5

LINE 2:

**NOTES:**

ASCALADE TECHNOLOGIES INC. - 1.9 GHz DECT TELEPHONE  
 POWERLINE CONDUCTED PLOT - LINE 2 (BASE IN TEST MODE)

**FCC 15.207 Mask Class B**



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5

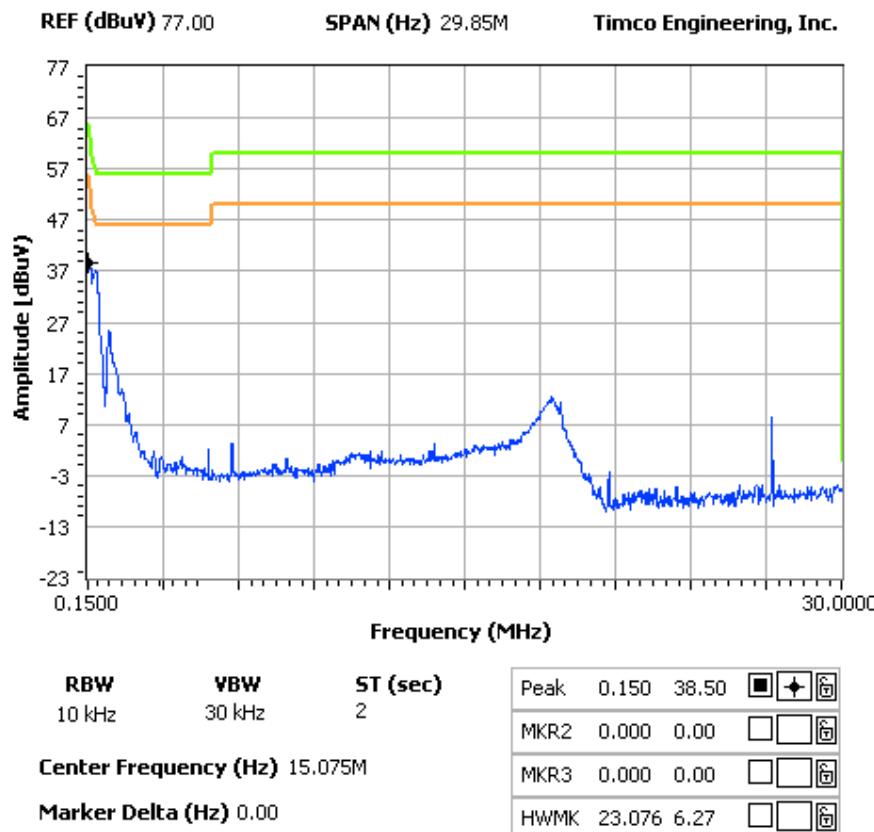
Phone is on base charger, which is connected to power source. The phone is off.

LINE 1:

**NOTES:**

ASCALADE TECHNOLOGIES INC. - 1.9 GHz DECT TELEPHONE (PHONE OFF)  
 POWER LINE CONDUCTED PLOT - LINE 1

**FCC 15.207 Mask Class B**



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

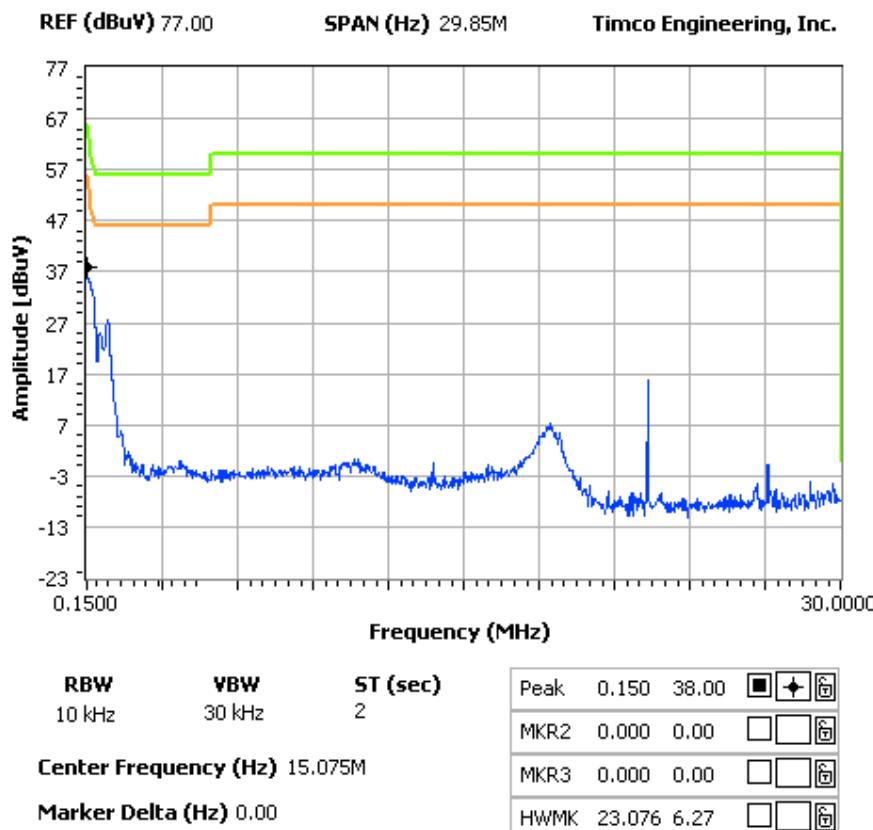
**REPORT #:** 920AUT5

LINE 2:

**NOTES:**

ASCALADE TECHNOLOGIES INC. - 1.9 GHz DECT TELEPHONE (PHONE OFF)  
 POWER LINE CONDUCTED PLOT - LINE 2

**FCC 15.207 Mask Class B**



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

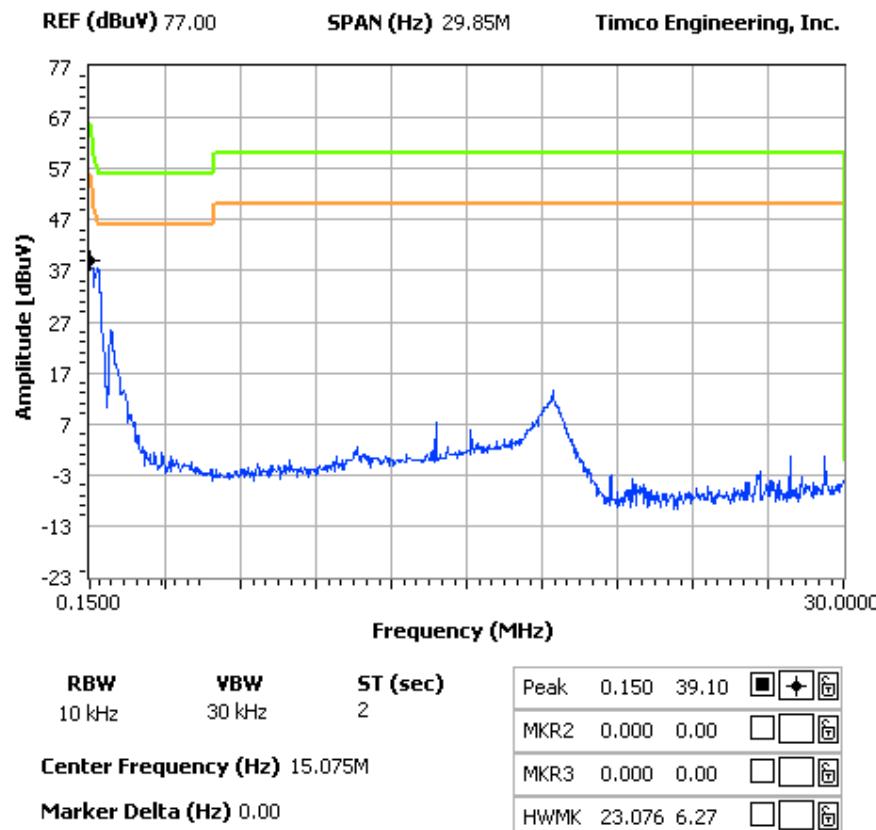
**REPORT #:** 920AUT5

Phone is on base charger which connected to power source, the phone is on.  
 LINE 1

**NOTES:**

ASCALADE TECHNOLOGIES INC. - 1.9 GHz DECT TELEPHONE (PHONE ON)  
 POWER LINE CONDUCTED PLOT - LINE 1

**FCC 15.207 Mask Class B**



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

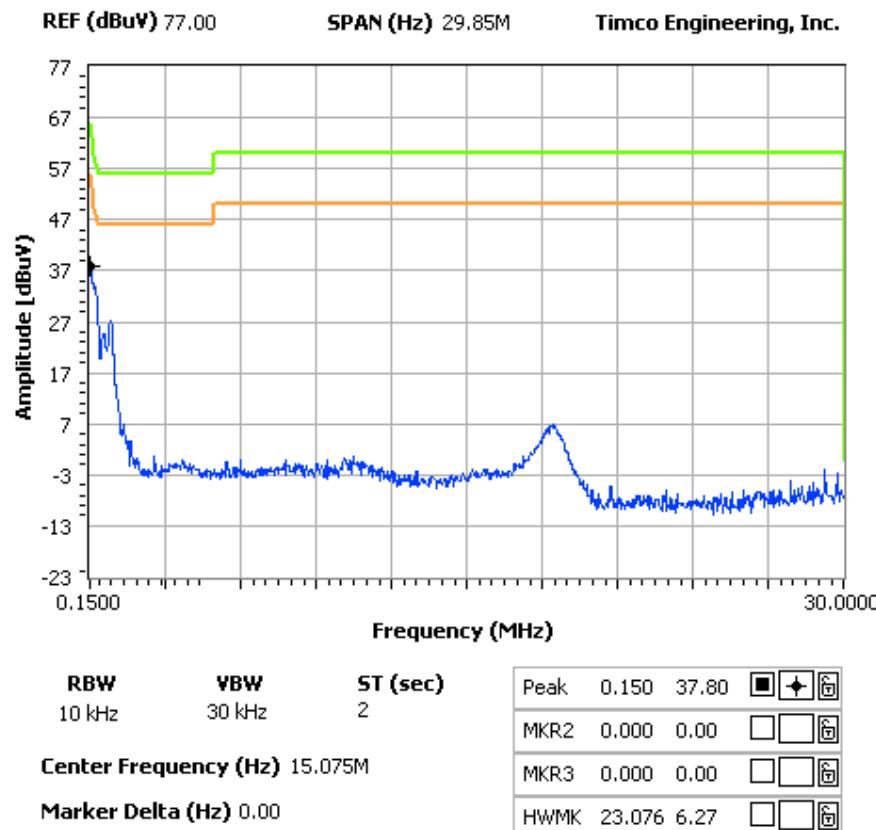
**REPORT #:** 920AUT5

LINE 2:

**NOTES:**

ASCALADE TECHNOLOGIES INC. - 1.9 GHz DECT TELEPHONE (PHONE ON)  
 POWER LINE CONDUCTED PLOT - LINE 2

**FCC 15.207 Mask Class B**



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5

#### 4 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 3/27/04	3/26/07
3-Meter OATS	TEI	N/A	N/A	Listed 1/13/03	1/12/06
Biconnical Antenna	Eaton	94455-1	1057	CAL 3/18/03	3/18/05
Biconnical Antenna	Eaton	94455-1	1096	CAL 8/17/04	8/17/06
Biconnical Antenna	Electro-Metrics	BIA-25	1171	CAL 4/29/05	4/29/07
Blue Tower Quasi-Peak Adapter	HP	85650A	2811A01279	CAL 4/13/05	4/13/07
Blue Tower RF Preselector	HP	85685A	2926A00983	CAL 4/13/05	4/13/07
Blue Tower Spectrum Analyzer	HP	8568B	2928A04729 2848A18049	CAL 4/13/05	4/13/07
Double-Ridged Horn Antenna	Electro-Metrics	RGA-180	2319	CAL 12/29/04	12/29/06
LISN	Electro-Metrics	ANS-25/2	2604	CAL 8/27/04	8/27/06
LISN	Electro-Metrics	EM-7820	2682	CAL 4/28/05	4/28/07
Log-Periodic Antenna	Eaton	96005	1243	CAL 5/8/03	5/8/05

**APPLICANT:** ASCALADE TECHNOLOGIES INC.

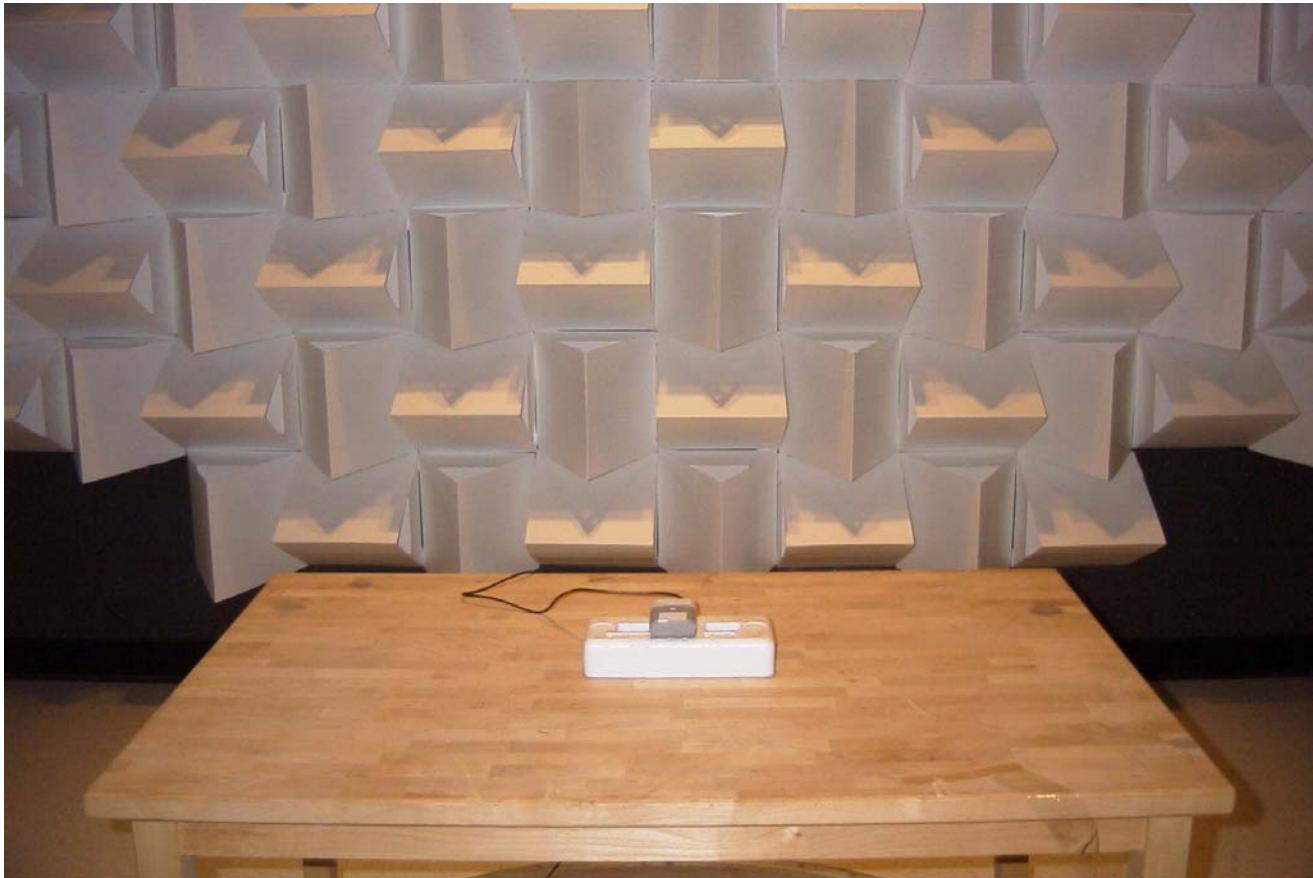
**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5

## 5 TEST SETUP PHOTOGRAPHS

RADIATED TEST SET UP (BASE):



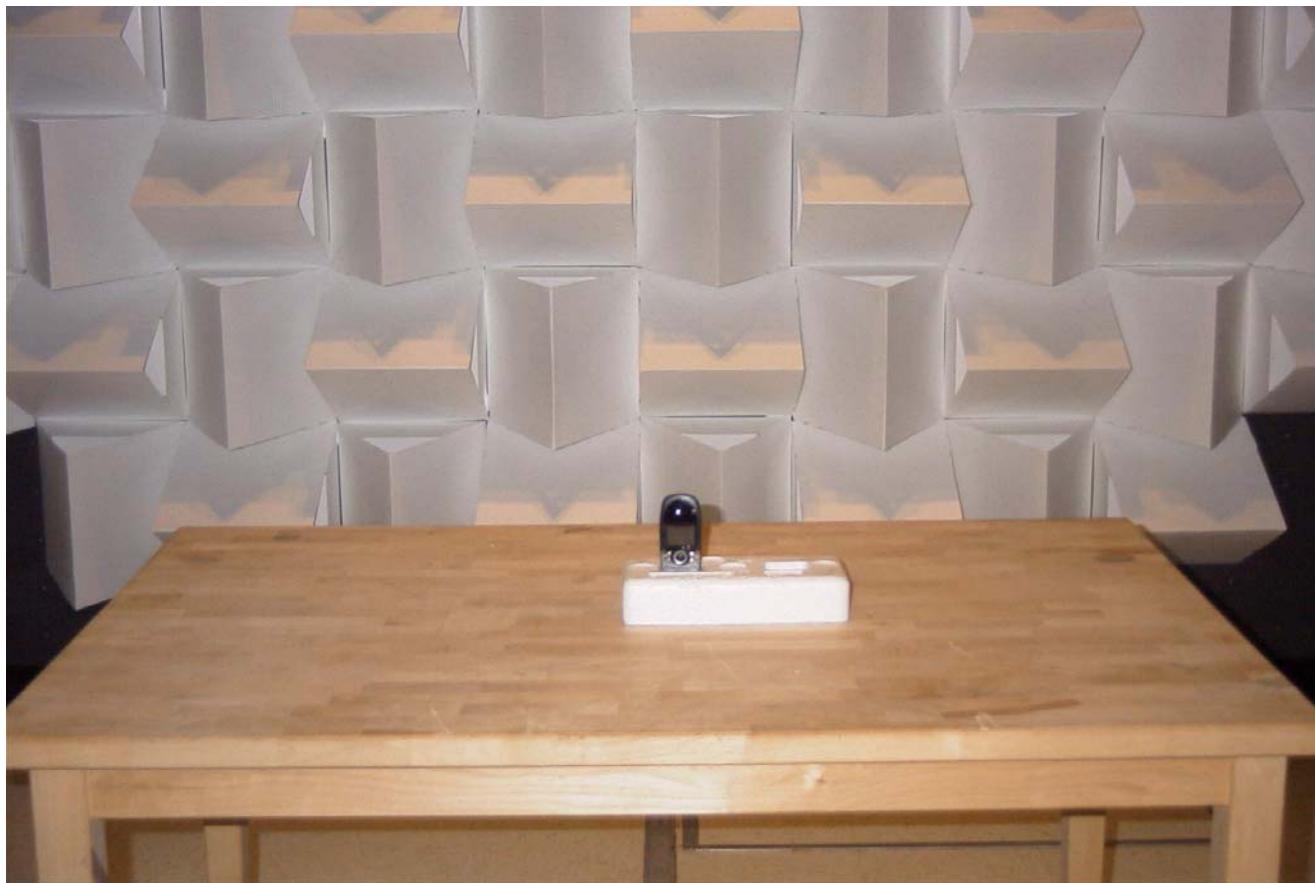
**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5

RADIATED TEST SET UP (HANDSET):



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5

POWERLINE CONDUTED TEST SET UP (HANDSET):



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5

POWERLINE CONDUCTED TEST SET  
(BASE):



**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5



## **6 EUT EXTERNAL PHOTOGRAPHS**

The photos are provided in a separate exhibit

## **7 EUT INTERNAL PHOTOGRAPHS**

The photos are provided in a separate exhibit

## **8 LABEL PHOTOGRAPHS**

The label sample and location are provided in a separate exhibit

**APPLICANT:** ASCALADE TECHNOLOGIES INC.

**FCC ID:** PBWDT19R26

**MODEL #:** B154U AND CIT200

**REPORT #:** 920AUT5