

## **2.9 Peak Radiated Spurious Emission in the Frequency Range 30 -25000 MHz (FCC Section 15.247(c))**

The EUT was hop-stopped and when possible, placed into a continuous transmit mode of operation. A preliminary scan was performed on the EUT to determine frequencies that were caused by the transmitter portion of the product. Significant emissions that fell within restricted bands were then measured on an OAT's site. Radiated measurements below 1 GHz were tested with a RBW = 120 kHz. Radiated measurements above 1 GHz were measured using a RBW = VBW = 1 MHz. The results of peak radiated spurious emissions falling within restricted bands are given in Table 4a –4c and Figure 5a1 – Figure 5c7.

Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

#### TABLE 4a PEAK RADIATED SPURIOUS EMISSIONS (Low Channel)

Peak Radiated Emissions								
Test By:	Test: Part 15.247 Certification Low Channel				Client: Wireless Detection			
DPB	Project: 05-0073				Model: SR-002			
Frequency (MHz)	Test Data (dBm)	Test Data (dBuV)	AF+CA-AMP (dB)	Results (uV/m)	Limits (uV/m)	Margin (dB)	PK = n / QP	
311.08	-71.3	35.7	19.7	591.7	84664.5	43.1	PK	
902.31	-19.0	88.0	30.6	846644.8			PK	
1804.67	-33.0	74.0	-4.7	2922.9	84664.5	29.2	PK	
2707	-45.0	62.0	-2.5	939.8	5000.0	14.5	PK	

Data corrected by 1 dB for loss of high pass filter except for fundamental frequency

#### SAMPLE CALCULATION:

RESULTS (uV/m @ 3m) = Antilog  $((-71.3 + 19.7 + 107)/20) = 591.7$

CONVERSION FROM dBm TO dBuV = 107 dB

Test Date: March 30, 2005

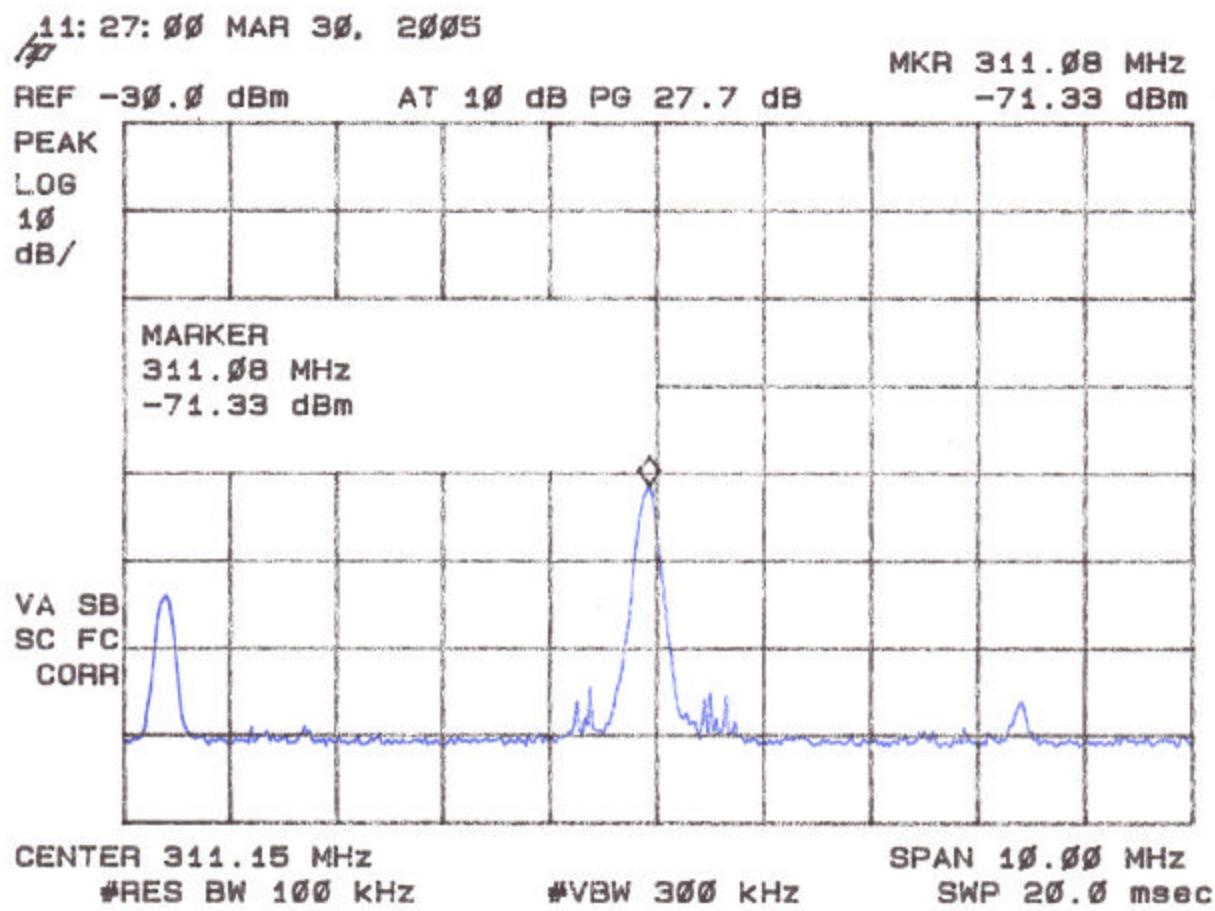
Tester

Signature: David Blethen Name: David Blethen

Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

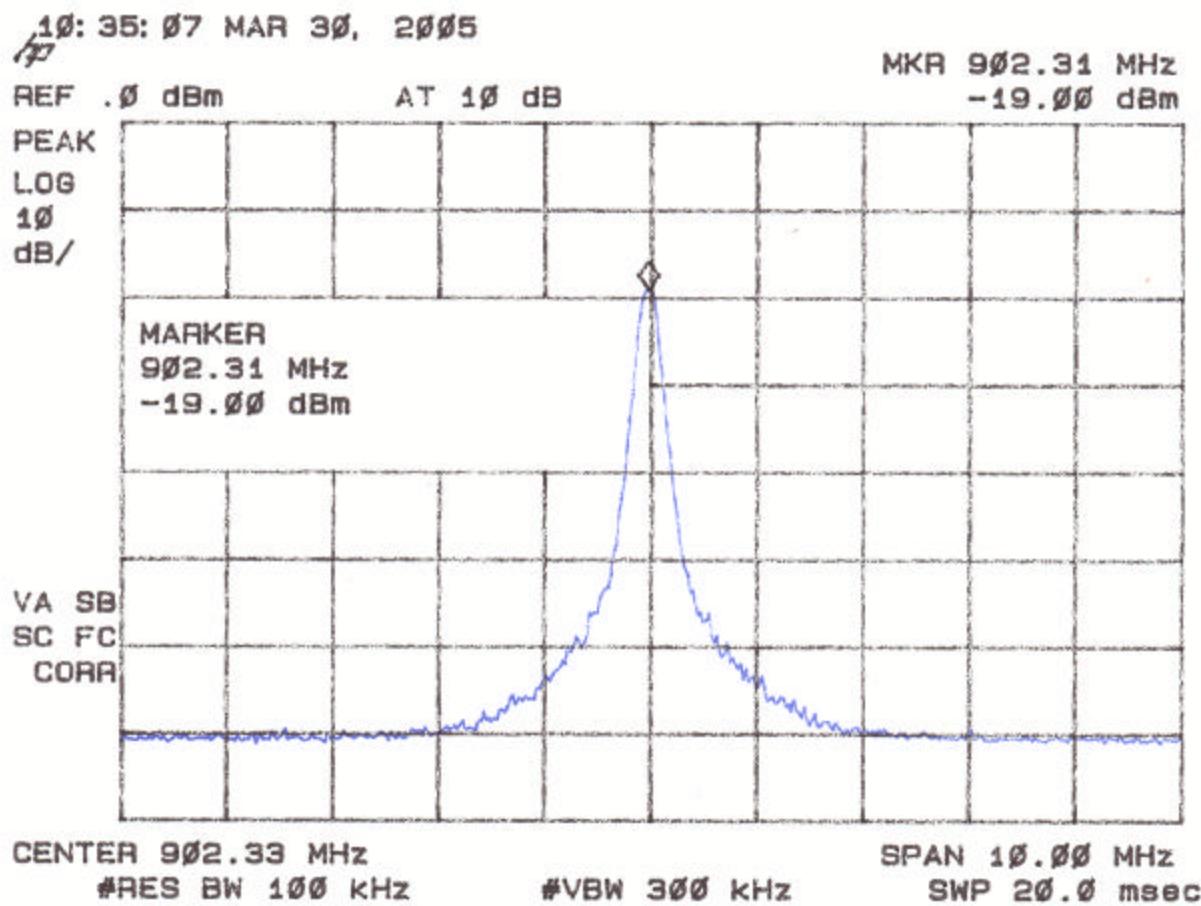
Figure 5a-1  
**Peak Radiated Spurious Emission 15.247(c) Low Channel –  
Sub-Harmonic**



Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

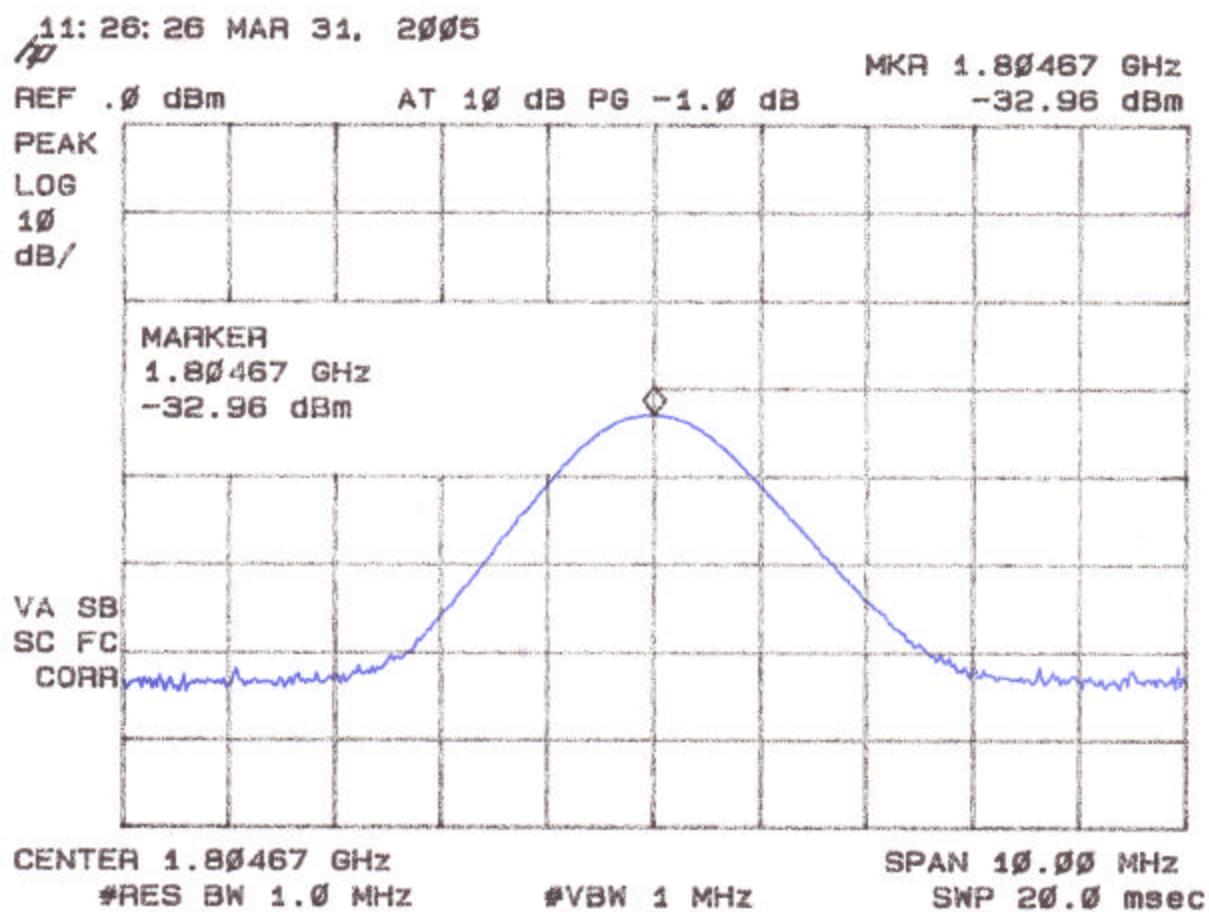
Figure 5a-2  
**Peak Radiated Spurious Emission 15.247(c) Low Channel – Fundamental**



Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

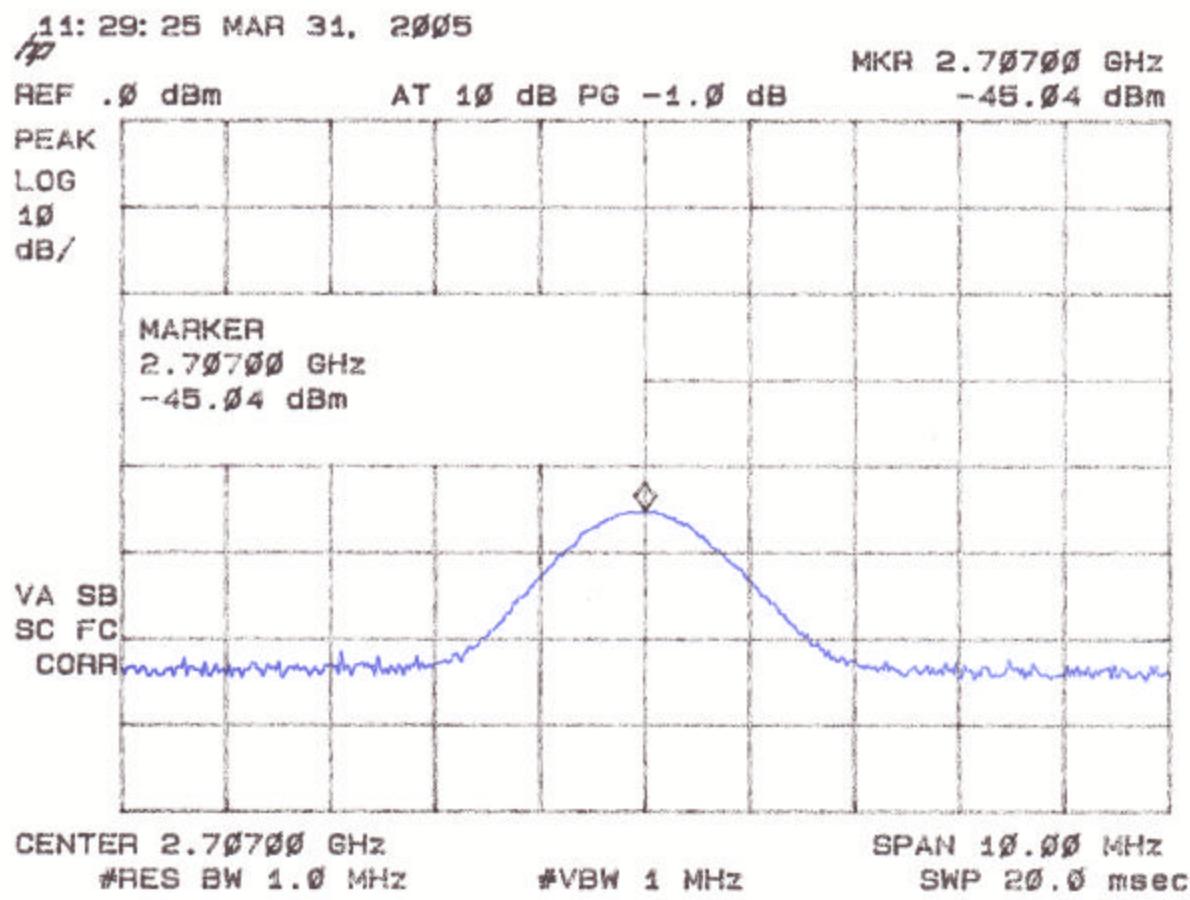
Figure 5a-3  
**Peak Radiated Spurious Emission 15.247(c) Low Channel –  
2<sup>nd</sup> Harmonic**



Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
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Figure 5a-4  
**Peak Radiated Spurious Emission 15.247(c) Low Channel –  
3<sup>rd</sup> Harmonic**



Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

#### TABLE 4b PEAK RADIATED SPURIOUS EMISSIONS (Mid Channel)

Peak Radiated Emissions							
Test By:	Test: Part 15.247 Certification Mid Channel				Client: Wireless Detection		
DPB	Project: 05-0073				Model: SR-002		
Frequency (MHz)	Test Data (dBm)	Test Data (dBuV)	AF+CA-AMP (dB)	Results (uV/m)	Limits (uV/m)	Margin (dB)	PK = n / QP
323.73	-74.9	32.1	19.1	364.9	5000.0	22.7	PK
915.01	-19.1	87.9	30.8	859617.3			PK
1829.98	-32.6	74.4	-4.6	3107.3	85961.7	28.8	PK
2745.08	-41.4	65.6	-2.4	1438.8	5000.0	10.8	PK

Data corrected by 1 dB for loss of high pass filter except for fundamental frequency

#### SAMPLE CALCULATION:

RESULTS (uV/m @ 3m) = Antilog  $(-74.9 + 19.1 + 107)/20 = 364.9$

CONVERSION FROM dBm TO dBuV = 107 dB

Test Date: March 30, 2005

Tester

Signature: David P. Blethen Name: David Blethen

Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

**Figure 5b-1**  
**Peak Radiated Spurious Emission 15.247(c) Mid Channel –**  
**Sub Harmonic**

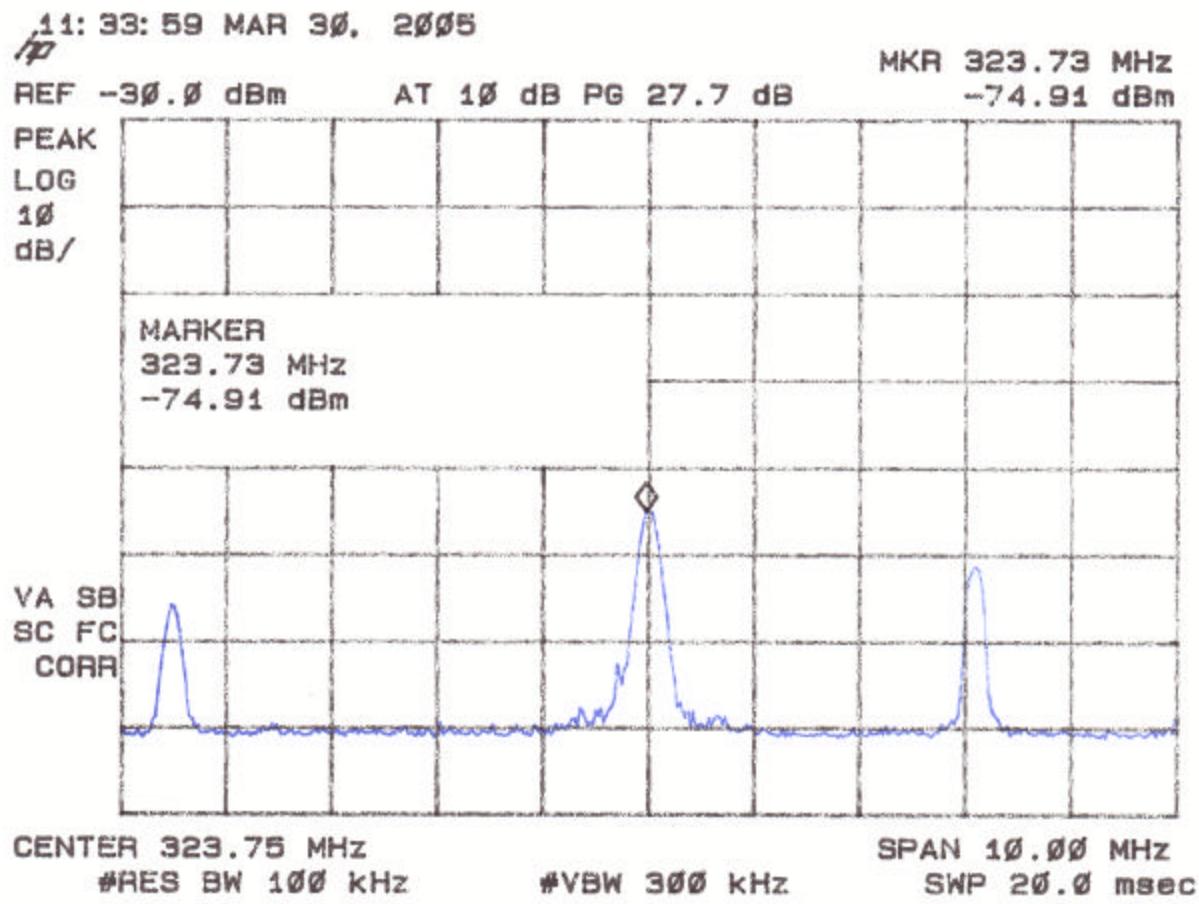
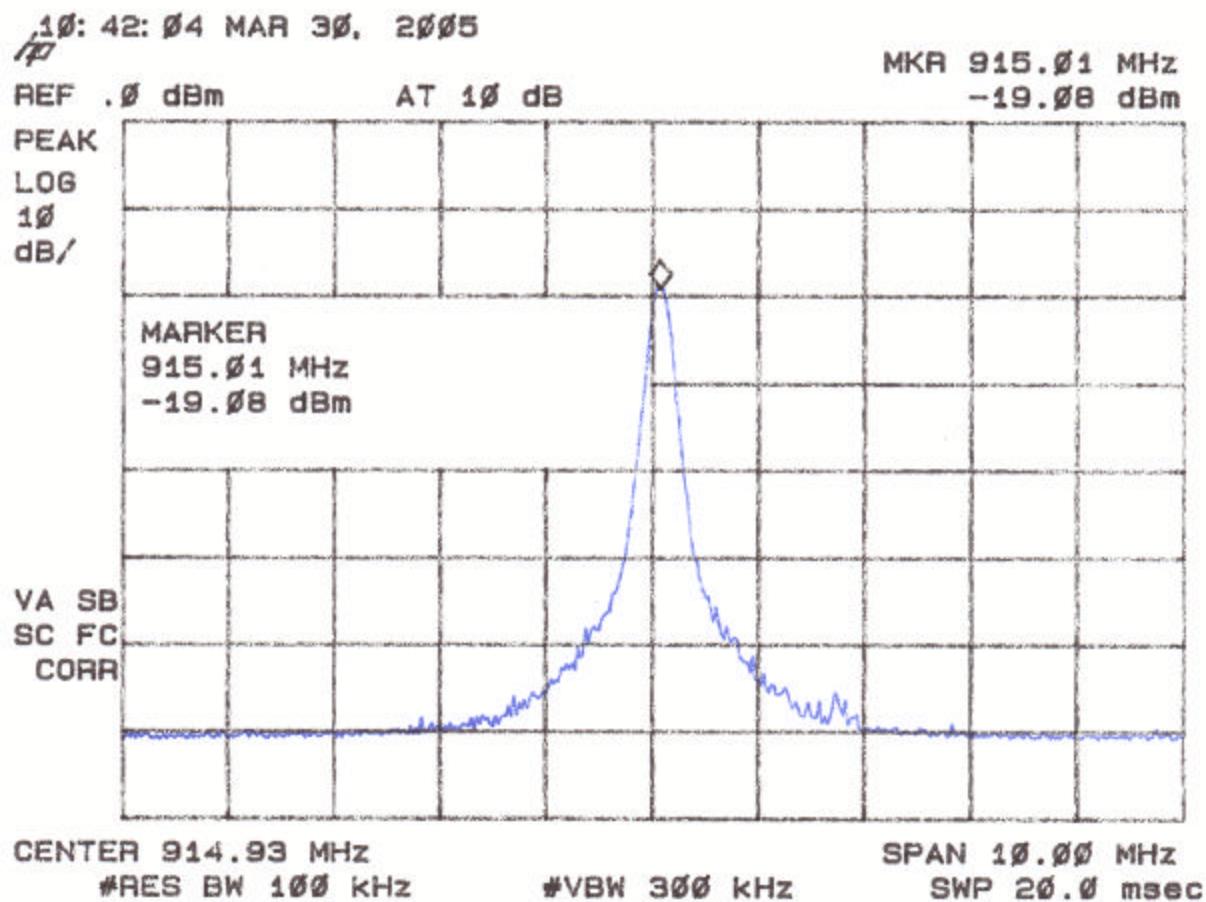


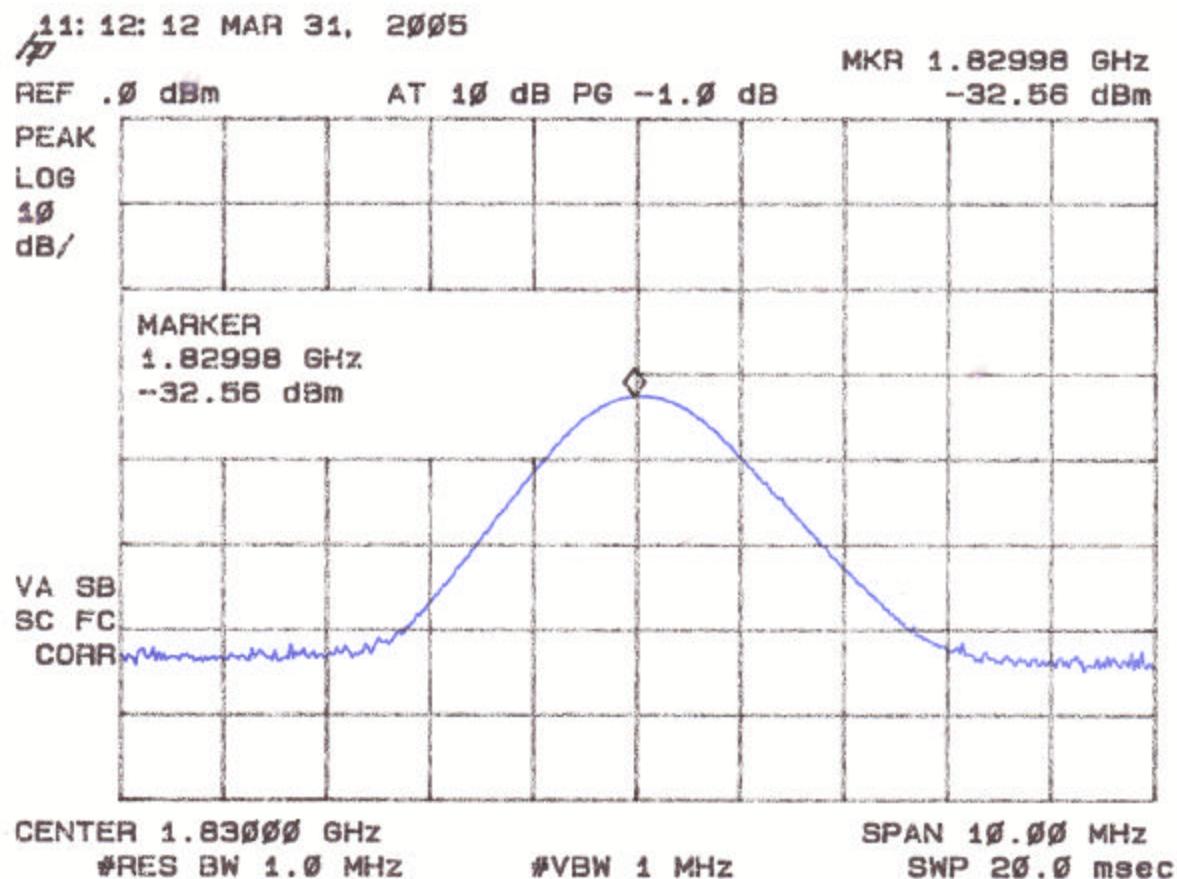
Figure 5b-2  
**Peak Radiated Spurious Emission 15.247(c) Mid Channel – Fundamental**



Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

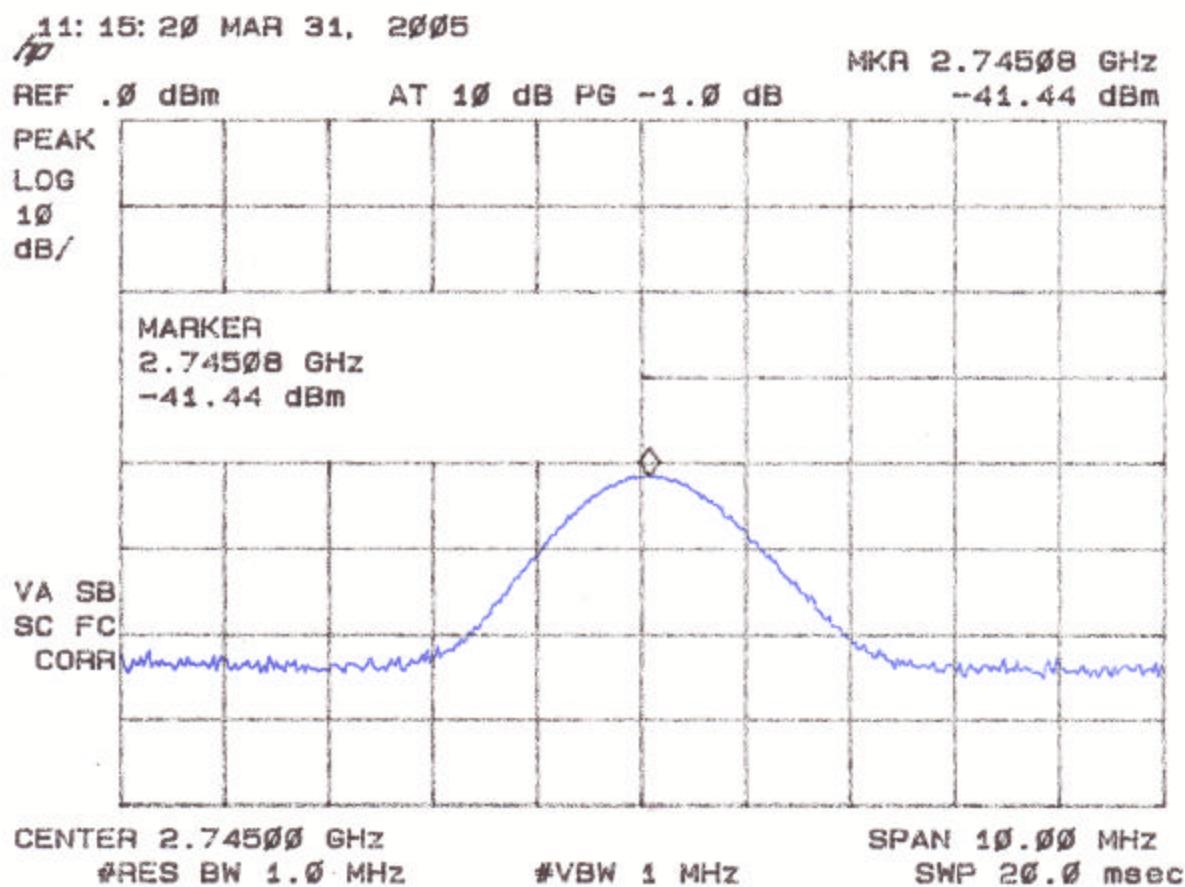
Figure 5b-3  
**Peak Radiated Spurious Emission 15.247(c) Mid Channel –  
2nd Harmonic**



Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

**Figure 5b-4**  
**Peak Radiated Spurious Emission 15.247(c) Mid Channel –**  
**3rd Harmonic**



**Table 4c. PEAK RADIATED SPURIOUS EMISSIONS (High Channel)**

<b>Peak Radiated Emissions</b>							
<b>Test By:</b>	<b>Test:</b> Part 15.247 Certification High Channel				<b>Client:</b> Wireless Detection		
DPB	<b>Project:</b> 05-0073				<b>Model:</b> SR-002		
<b>Frequency</b>	<b>Test Data</b>	<b>Test Data</b>	<b>AF+CA-AMP</b>	<b>Results</b>	<b>Limits</b>	<b>Margin</b>	<b>PK = n</b>
(MHz)	(dBm)	(dBuV)	(dB)	(uV/m)	(uV/m)	(dB)	/ QP
336.05	-77.2	29.8	19.0	276.8	67253.3	<b>47.7</b>	<b>PK</b>
927.28	-21.2	85.8	30.8	672533.0			<b>PK</b>
1854.57	-27.9	79.1	-4.4	5417.0	67253.3	<b>21.9</b>	<b>PK</b>
2781.9	-42.7	64.3	-2.3	1252.4	5000.0	<b>12.0</b>	<b>PK</b>

Data corrected by 1 dB for loss of high pass filter except for fundamental frequency

**SAMPLE CALCULATION:**

**RESULTS (uV/m @ 3m) = Antilog ((-77.2 + 19.0 + 107)/20) = 276.8**

**CONVERSION FROM dBm TO dBuV = 107 dB**

**Test Date: March 30, 2005**

**Tester**

**Signature:**  **Name:** David Blethen

Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

Figure 5c-1  
**Peak Radiated Spurious Emission 15.247(c) High Channel –  
Sub Harmonic**

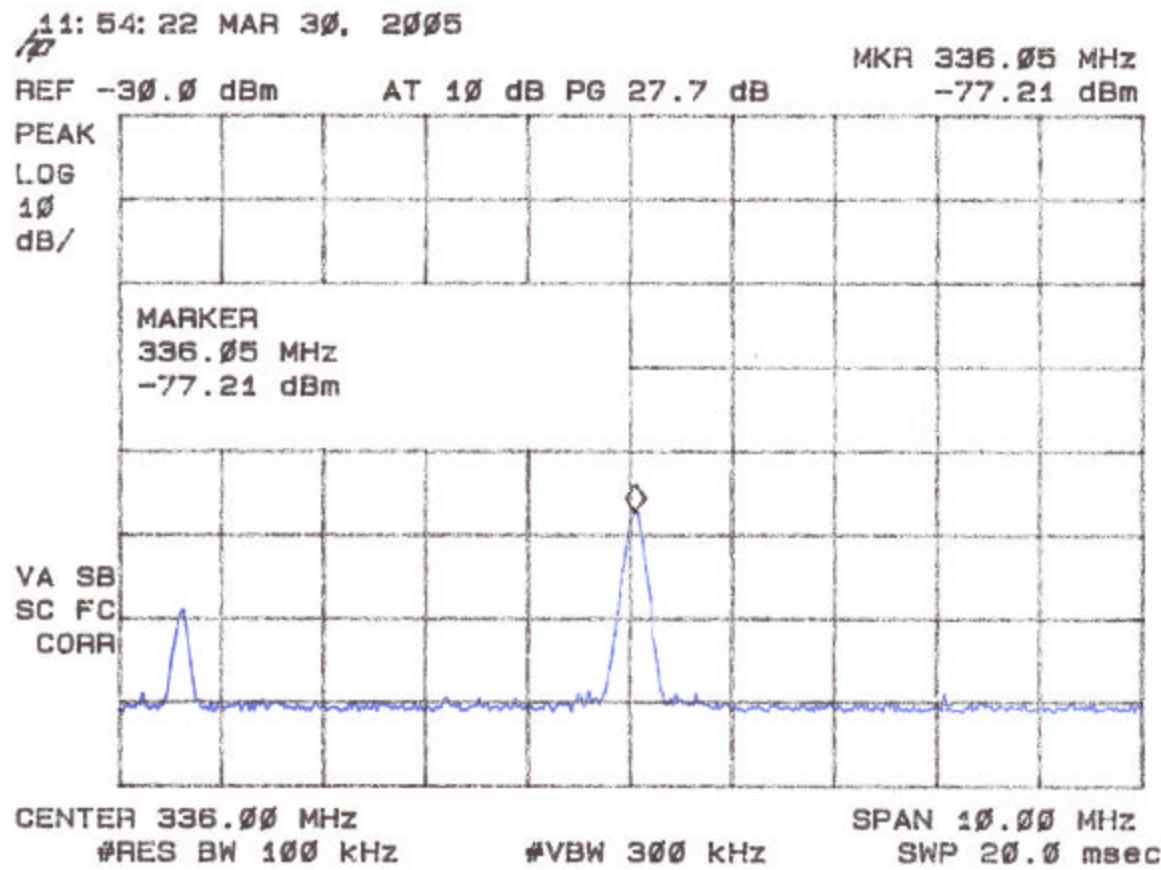
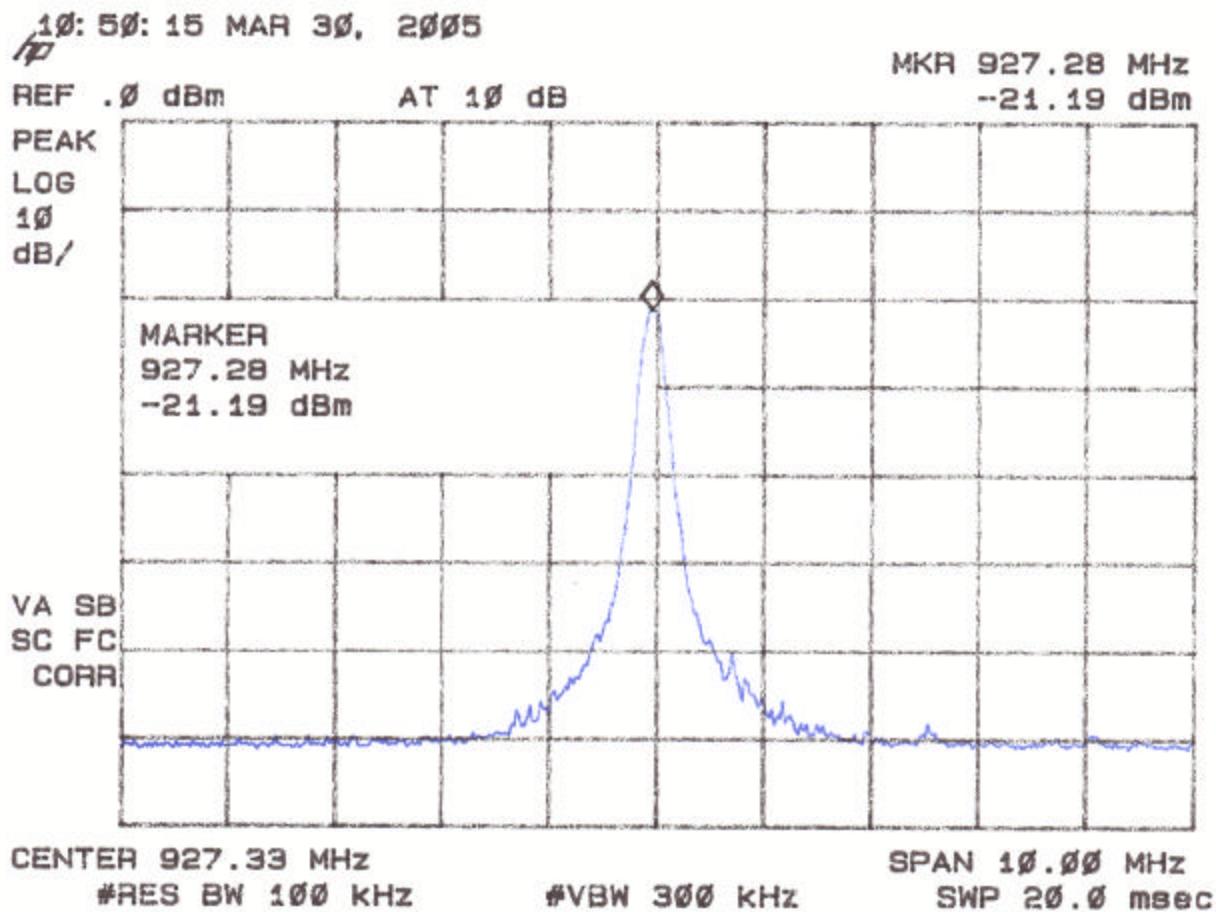


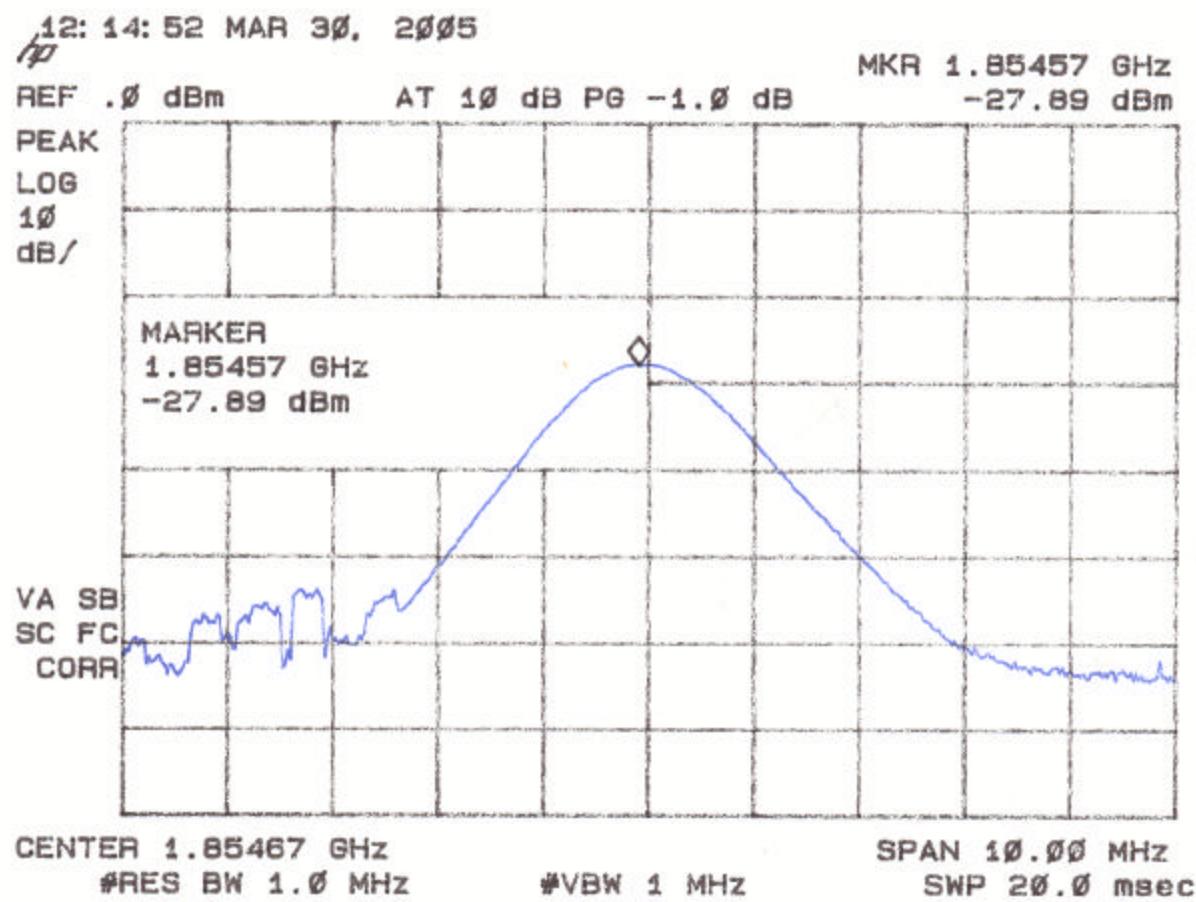
Figure 5c-2  
**Peak Radiated Spurious Emission 15.247(c) High Channel – Fundamental**



Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

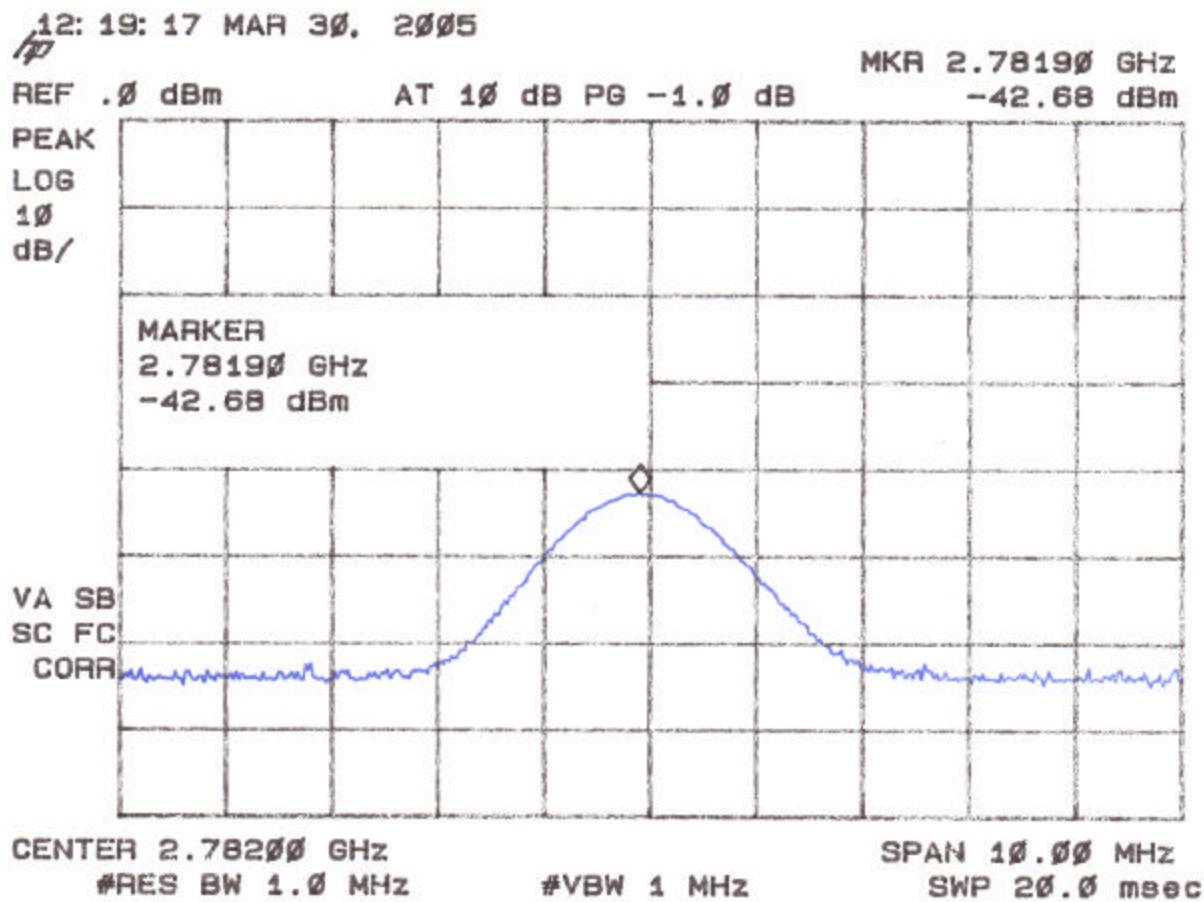
Figure 5c-3  
**Peak Radiated Spurious Emission 15.247(c) High Channel –  
2nd Harmonic**



Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

Figure 5c-4  
**Peak Radiated Spurious Emission 15.247(c) High Channel –  
3rd Harmonic**



## **2.10 Average Spurious Emission in the Frequency Range 30 - 25000 MHz (FCC Section 15.247(c))**

The results of average radiated spurious emissions falling within restricted bands are given in Tables 5a – 5c. These values were calculated using the following duty cycle corrections:

The maximum transmit time of the EUT, based upon software and firmware settings, is 2.84 ms. Measured time of occupancy from Section 2.13 is 3.000 ms therefore:

$$3.000 \text{ ms}/100 \text{ ms} = 3\% \text{ duty cycle}$$
$$20^{\log}(.03) = -30.5 \text{ dB correction factor}$$

**Table 5a. AVERAGE RADIATED SPURIOUS EMISSIONS Low Channel**

<b>Average Radiated Emissions, 3.125% duty cycle, - 30.5 dB correction</b>							
<b>Test By:</b>	<b>Test:</b> FCC 15.247 Low Channel				<b>Client:</b> Wireless Detection		
DPB	<b>Project:</b> 05-0073				<b>Model:</b> SR-002		
<b>Frequency</b>	<b>Test Data</b>	<b>Test Data</b>	<b>AF+CA-AMP</b>	<b>Results</b>	<b>Limits</b>	<b>Margin</b>	<b>PK = n</b>
(MHz)	(dBm)	(dBuV)	(dB)	(uV/m)	(uV/m)	(dB)	/ QP
311.08	-101.8	5.2	19.7	17.7	2527.6	<b>43.1</b>	<b>AVG</b>
902.31	-49.5	57.5	30.6	25275.6			<b>AVG</b>
1804.67	-63.5	43.5	-4.7	87.3	2527.6	<b>29.2</b>	<b>AVG</b>
2707	-75.5	31.5	-2.5	28.1	500.0	<b>25.0</b>	<b>AVG</b>

Data corrected by 1 dB for loss of high pass filter except for fundamental frequency

**SAMPLE CALCULATION:**

**RESULTS (uV/m @ 3m) = Antilog ((-101.8 + 19.7 + 107)/20) = 17.7**

**CONVERSION FROM dBm TO dBuV = 107 dB**

**Test Date: March 30, 2005**

**Tester**

**Signature:**  **Name:** David Blethen

**Table 5b. AVERAGE RADIATED SPURIOUS EMISSIONS Mid Channel**

<b>Average Radiated Emissions, 3.125% duty cycle, - 30.5 dB correction</b>							
<b>Test By:</b>	<b>Test:</b> FCC 15.247 Mid Channel 3rd test				<b>Client:</b> Wireless Detection		
<b>DPB</b>	<b>Project:</b> 05-0073				<b>Model:</b> System Repeater Unit		
<b>Frequency</b>	<b>Test Data</b>	<b>Test Data</b>	<b>AF+CA-AMP</b>	<b>Results</b>	<b>Limits</b>	<b>Margin</b>	<b>PK = n</b>
<b>(MHz)</b>	<b>(dBm)</b>	<b>(dBuV)</b>	<b>(dB)</b>	<b>(uV/m)</b>	<b>(uV/m)</b>	<b>(dB)</b>	<b>/ QP</b>
323.73	-105.4	1.6	19.1	10.9	500.0	<b>33.2</b>	<b>AVG</b>
915.01	-49.6	57.4	30.8	25662.9			<b>AVG</b>
1829.98	-63.1	43.9	-4.6	92.8	2566.3	<b>28.8</b>	<b>AVG</b>
2745.08	-71.9	35.1	-2.4	43.0	500.0	<b>21.3</b>	<b>AVG</b>

Data corrected by 1 dB for loss of high pass filter except for fundamental frequency

**SAMPLE CALCULATION:**

**RESULTS (uV/m @ 3m) = Antilog ((-105.4 + 19.1 + 107)/20) = 10.9**

**CONVERSION FROM dBm TO dBuV = 107 dB**

**Test Date: March 30, 2005**

**Tester**

**Signature:** David P. Blethen **Name:** David Blethen

**Table 5c. AVERAGE RADIATED SPURIOUS EMISSIONS High Channel**

<b>Average Radiated Emissions, 3.125% duty cycle, - 30.5 dB correction</b>							
<b>Test By:</b>	<b>Test:</b> FCC 15.247 High Channel, 3rd test			<b>Client:</b> Wireless Detection			
<b>DPB</b>	<b>Project:</b> 05-0073			<b>Model:</b> System Repeater Unit			
<b>Frequency</b> (MHz)	<b>Test Data</b> (dBm)	<b>Test Data</b> (dBuV)	<b>AF+CA-AMP</b> (dB)	<b>Results</b> (uV/m)	<b>Limits</b> (uV/m)	<b>Margin</b> (dB)	<b>PK = n</b> / QP
336.05	-107.7	-0.7	19.0	8.3	2007.8	<b>47.7</b>	<b>AVG</b>
927.28	-51.7	55.3	30.8	20077.7			<b>AVG</b>
1854.57	-58.4	48.6	-4.4	161.7	2007.8	<b>21.9</b>	<b>AVG</b>
2781.9	-73.2	33.8	-2.3	37.4	5000.0	<b>42.5</b>	<b>AVG</b>

Data corrected by 1 dB for loss of high pass filter except for fundamental frequency

**SAMPLE CALCULATION:**

**RESULTS (uV/m @ 3m) = Antilog ((-107.7 + -0.7 + 107)/20) = 8.3**

**CONVERSION FROM dBm TO dBuV = 107 dB**

**Test Date: March 30, 2005**

**Tester**

**Signature:**  **Name:** David Blethen

## **2.11 20 dB Bandwidth per FCC Section 15.247(a)(1)(ii)**

The antenna port was connected to a spectrum analyzer that was set for a  $50 \Omega$  impedance with the RBW = approximately 1/100 of the manufacturers claimed RBW & VBW > RBW. The results of this test are given in Table 6 and Figure 6a through 6c.

U.S. Technologies, Inc.  
15B Certification

FCC ID : SZX-SR002

FCC Part

Report Number: 05-0073

Rev: 012804

Customer: Wireless Detection

Issue Date: April 1, 2005

Model: SR-002 Rev 02 System Repeater

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**TABLE 6**  
**20 dB Bandwidth**

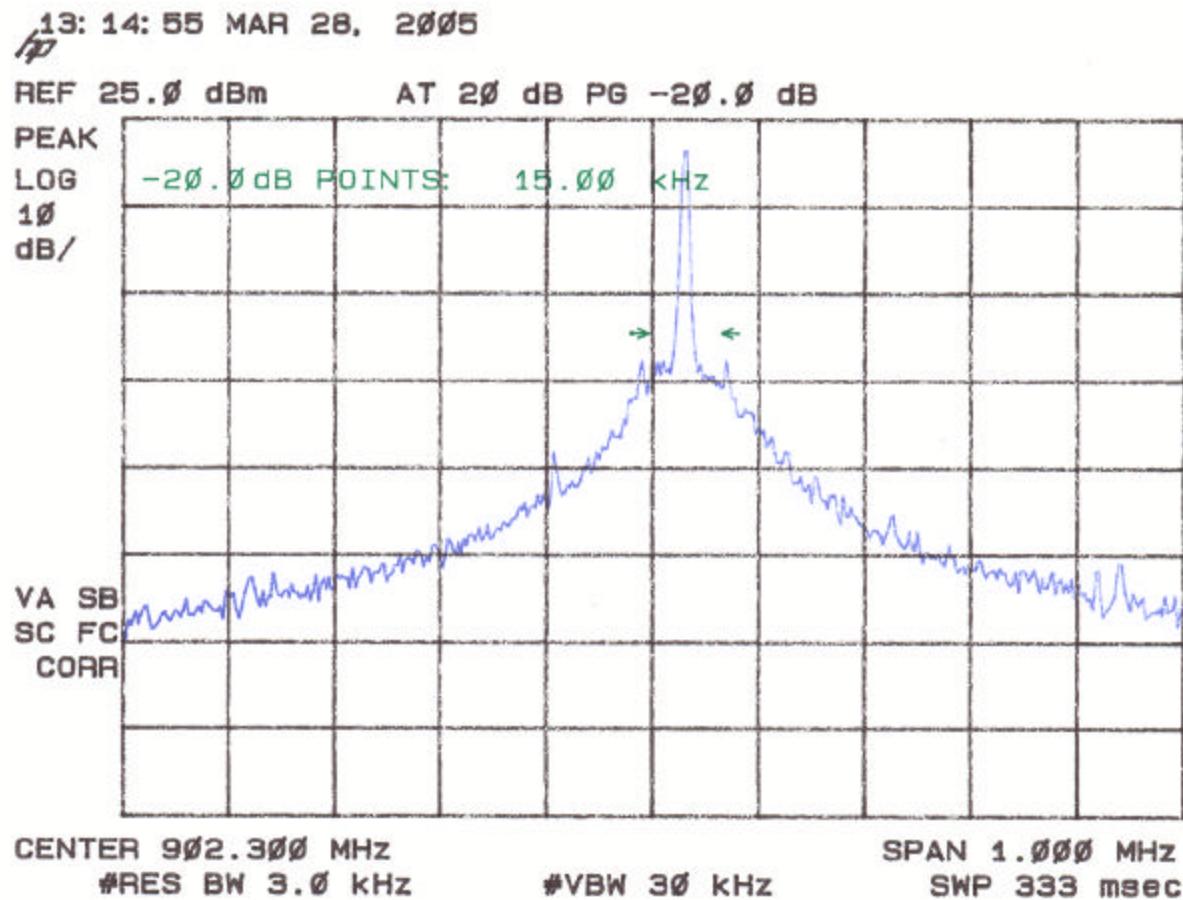
Frequency (MHz)	20 dB Bandwidth (MHz)	MAXIMUM FCC LIMIT (MHz)
902.300	0.015	1.0
915.000	0.015	1.0
927.320	0.015	1.0

**Test Date: March 30, 2005**

**Tester**

**Signature:**  **Name:** David Blethen

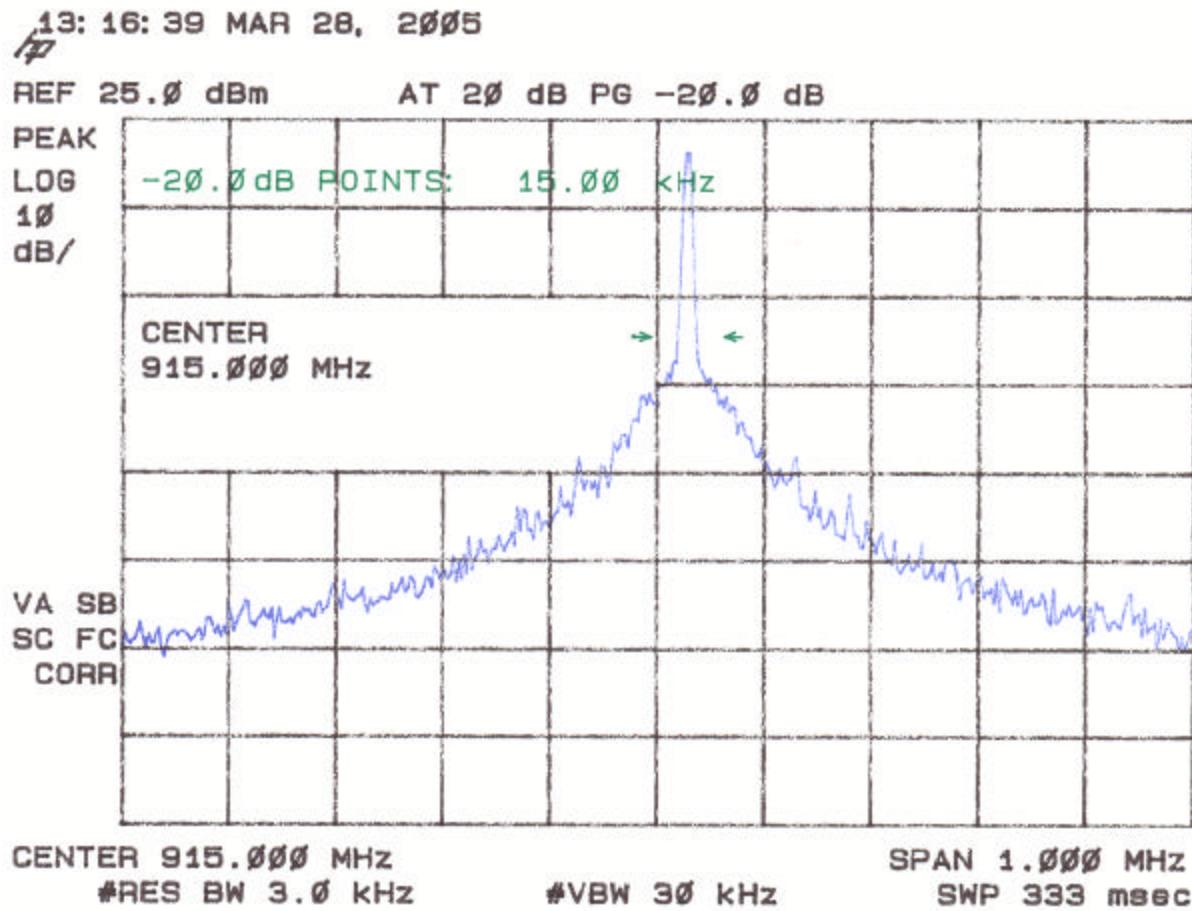
**Figure 6a.**  
**20 dB Bandwidth per FCC Section 15.247(a)(1)(ii) (Low Channel)**



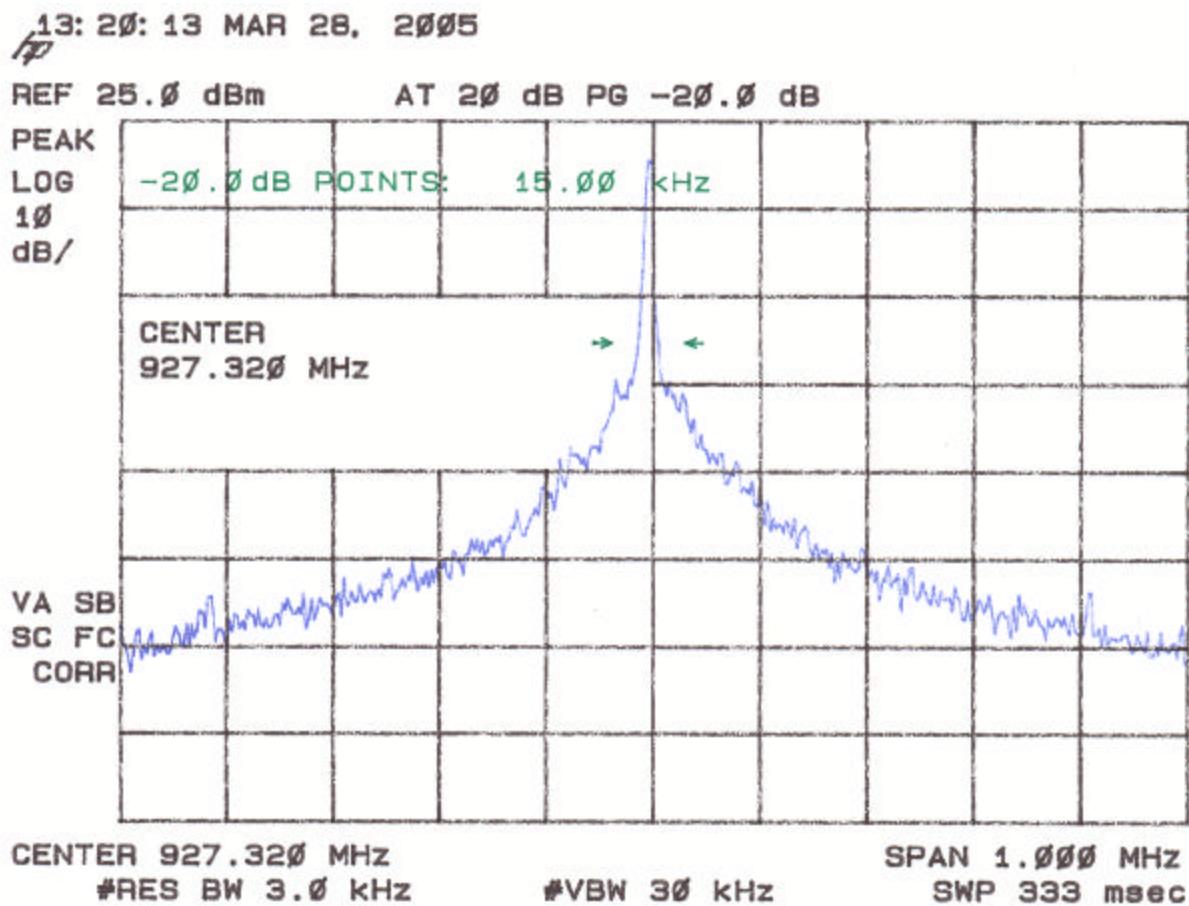
Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
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**Figure 6b.**  
**20 dB Bandwidth per FCC Section 15.247(a)(1)(ii) (Mid Channel)**



**Figure 6c.**  
**20 dB Bandwidth per FCC Section 15.247(a)(1)(ii) (High Channel)**



Report Number: 05-0073

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Customer: Wireless Detection

Model: SR-002 Rev 02 System Repeater

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## **2.12 Number of Hopping Channels FCC Section 15.247(a)(1)(ii)**

The transmitter was placed into a typical frequency hopping mode of operation. The 902-928 MHz band was centered on the screen and the RBW and VBW chosen such that the individual channels could be discerned. The trace capture time was a minimum of 5 minutes.

The results of this test are given in Table 7 and Figure 7.

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Issue Date: April 1, 2005

Customer: Wireless Detection

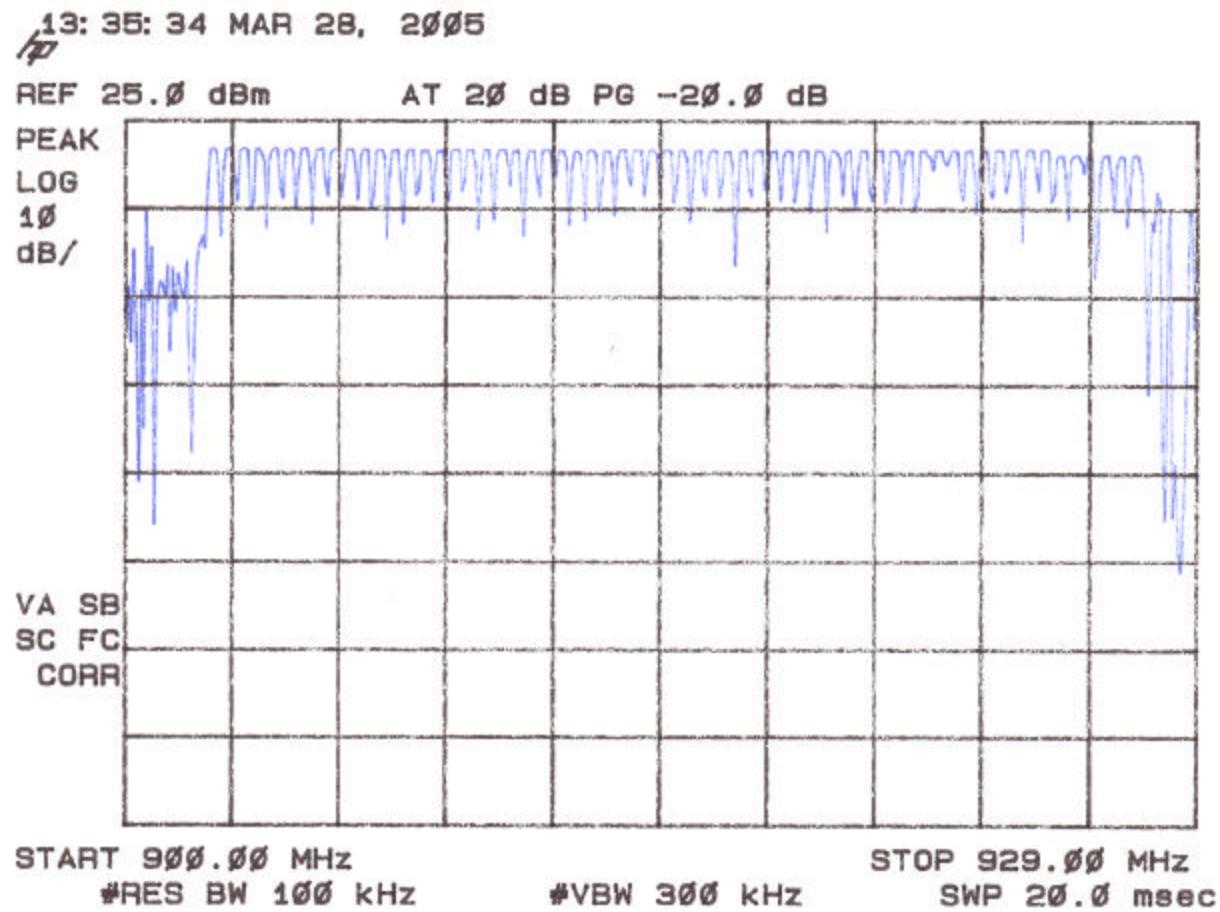
Model: SR-002 Rev 02 System Repeater

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**TABLE 7**  
**NUMBER OF HOPPING CHANNELS**

Number of Hopping Frequencies Measured	FCC Limit (Minimum Number of Channels)
62	50

**Figure 7**  
**Number of Hopping Channels FCC Section 15.247(a)(1)(ii)**



U.S. Technologies, Inc.  
15B Certification

FCC ID : SZX-SR002

FCC Part

Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
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## **2.13 Average Time of Occupancy per Channel FCC Section 15.247(a)(1)(ii)**

The maximum transmit time of the EUT, based upon software and firmware settings, is 3 ms average time of occupancy.

## U.S. Technologies, Inc. 15B Certification

FCC ID: SZX-SR002

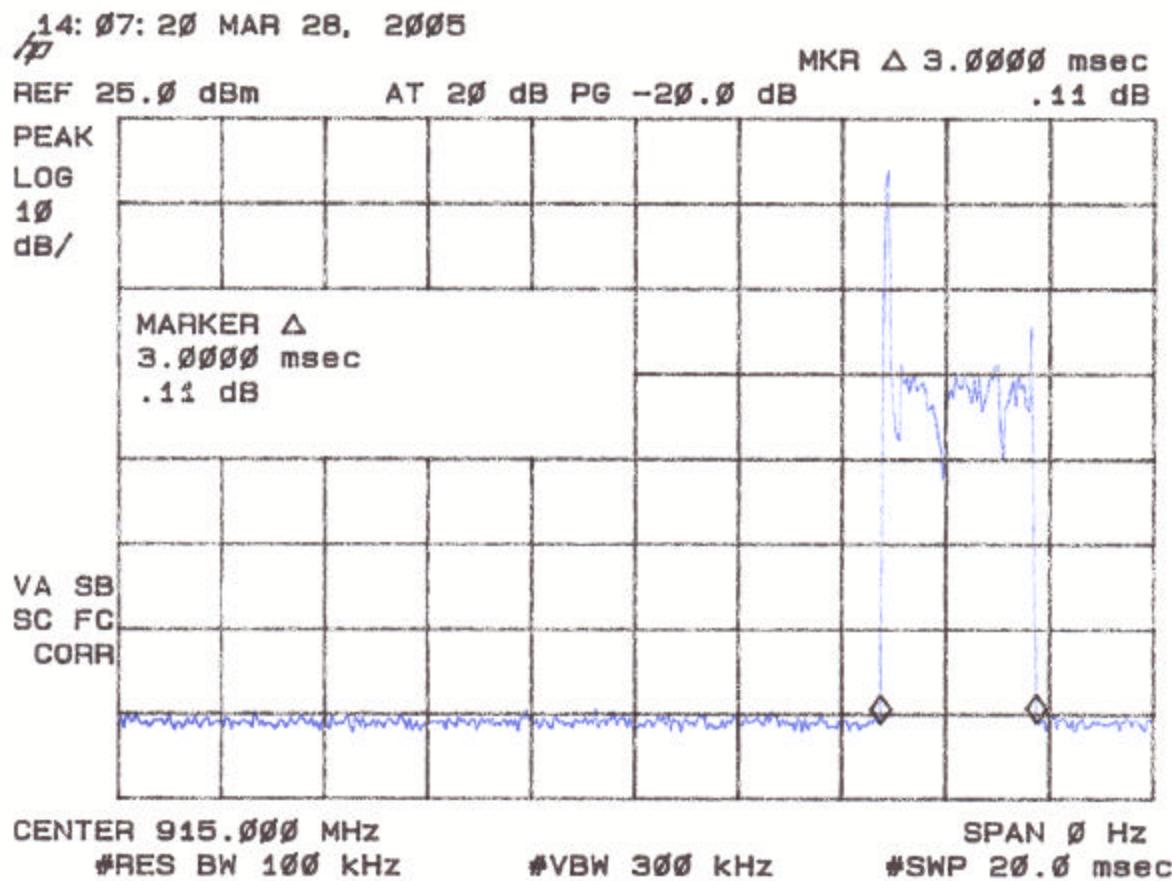
## FCC Part

Report Number: 05-0073

Rev: 012804  
Issue Date: April 1, 2005

Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeate

**Figure 8**  
**Average Time of Occupancy per Channel FCC Section 15.247(a)(1)(ii)**



## **2.14 Power Line Conducted Emissions for Transmitter FCC Section 15.207**

The conducted voltage measurements have been carried out in accordance with FCC Section 15.207, with a spectrum analyzer connected to a LISN and the EUT placed into a continuous mode of transmit. The results are given in Tables 8a-8b.

**TABLE 8a. CONDUCTED EMISSIONS DATA**

**CLASS B**

**(Peak-Quasi Peak Measurements vs Average Limits) PHASE DATA**

<b>Line Conducted Emissions</b>							
<b>Test By:</b>	<b>Test:</b> FCC Part 15 Phase vs. AVG limits				<b>Client:</b> Wireless Detection		
DPB	<b>Project:</b> 05-0073				<b>Model:</b> SR-002		
<b>Frequency</b> (MHz)	<b>Test Data</b> (dBm)	<b>Test Data</b> (dBuV)	<b>AF+CA-AMP</b> (dB)	<b>Results</b> (dBuV)	<b>Limits</b> (dBuV)	<b>Margin</b> (dB)	<b>PK = n</b> / QP
0.18	-59.1	47.9	0.2	48.1	55.2	7.1	PK
19.665	-84.1	22.9	0.9	23.8	50.0	26.2	PK
28.328	-82.9	24.1	1.0	25.1	50.0	24.9	PK
28.925	-82.1	24.9	1.0	25.9	50.0	24.1	PK
29.52	-83.1	23.9	1.1	25.0	50.0	25.0	PK
29.82	-81.5	25.5	1.1	26.6	50.0	23.4	PK

**SAMPLE CALCULATIONS: 47.9 + 0.2 = 48.1 dBuV**

**Test Date: March 31, 2005**

**Tested by**

**Signature:**



**Name: David Blethen**

Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

### TABLE 8b. CONDUCTED EMISSIONS DATA

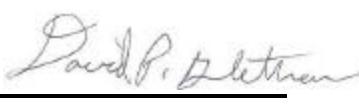
#### CLASS B

#### (Peak-Quasi Peak Measurements vs Average Limits) NEUTRAL DATA

Line Conducted Emissions							
Test By:	Test: FCC Part 15 Neutral vs. AVG limits			Client: Wireless Detection			
DPB	Project: 05-0073			Model: SR-002			
Frequency (MHz)	Test Data (dBm)	Test Data (dBuV)	AF+CA-AMP (dB)	Results (dBuV)	Limits (dBuV)	Margin (dB)	PK = n / QP
0.18	-58.6	48.4	0.2	48.6	55.2	6.6	PK
19.665	-85.9	21.1	0.9	22.0	50.0	28.0	PK
28.328	-85.1	21.9	1.0	22.9	50.0	27.1	PK
28.925	-85.2	21.8	1.0	22.8	50.0	27.2	PK
29.52	-84.7	22.3	1.1	23.4	50.0	26.6	PK
29.82	-83.8	23.2	1.1	24.3	50.0	25.7	PK

#### SAMPLE CALCULATIONS: $48.4 + 0.2 = 48.6$ dBuV

Test Date: March 31, 2005

Tested by   
Signature: David Blethen Name: David Blethen

## **2.15 Radiated Emissions for Digital Device & Receiver (47 CFR 15.109a)**

Radiated emissions were evaluated from 30 to 14500 MHz while the EUT was placed into a Receive mode of operation. Measurements were made with the analyzer's bandwidth set to 120 kHz measurements made less than 1 GHz and 1 MHz for measurements made greater than or equal to 1 GHz. The results for less than 1 GHz are shown in Table 9.

**TABLE 9a. RADIATED EMISSIONS DATA  
(Digital Device Receive Mode)**

**CLASS B**

**Measurements 30 MHz – 1 GHz**

<b>Radiated Emissions</b>							
<b>Test By:</b>	<b>Test:</b> FCC Part 15				<b>Client:</b> Wireless Detection		
<b>DPB</b>	<b>Project:</b> 05-0073				<b>Model:</b> SR-002		
<b>Frequency</b>	<b>Test Data</b>	<b>Test Data</b>	<b>AF+CA-AMP</b>	<b>Results</b>	<b>Limits</b>	<b>Margin</b>	<b>PK = n</b>
<b>(MHz)</b>	<b>(dBm)</b>	<b>(dBuV)</b>	<b>(dB)</b>	<b>(uV/m)</b>	<b>(uV/m)</b>	<b>(dB)</b>	<b>/ QP</b>
415.00	-96.0	11.0	20.9	39.3	200.0	14.1	PK
592	-93.0	14.0	24.7	86.4	200.0	7.3	PK

**SAMPLE CALCULATION:**

**RESULTS (uV/m @ 3m) = Antilog ((-96.0 + 11.0 + 107)/20) = 20.9**

**CONVERSION FROM dBm TO dBuV = 107 dB**

**Test Date: March 29, 2005**

**Tested by**

**Signature:**



**Name: David Blethen**

**TABLE 9b. RADIATED EMISSIONS DATA  
(Digital Device & Receiver)**

**CLASS B**

**Measurements 1 GHz – 5 GHz (PEAK)**

<b>Radiated Emissions</b>								
Test By:	<b>Test:</b> Part 15 Digital device / Receive Mode				<b>Client:</b> Wireless Detection			
DPB	<b>Project:</b> 05-0073				<b>Model:</b> SR-002			
Frequency	Test Data	Test Data	AF+CA-AMP	Results	Limits	Distance /	Margin	PK = n
(MHz)	(dBm)	(dBuV)	(dB)	(uV/m)	(uV/m)	Polarity	(dB)	/ QP
NO EMISSIONS DETECTED WITHIN 20 dB OF THE FCC LIMIT								

**Test Date: March 29, 2005**

**Tested by**  
**Signature:** David P. Blethen

**Name:** David Blethen

Report Number: 05-0073  
Customer: Wireless Detection  
Model: SR-002 Rev 02 System Repeater

Rev: 012804  
Issue Date: April 1, 2005

**TABLE 9b. RADIATED EMISSIONS DATA  
(Digital Device & Receiver)**

**CLASS B**

**Measurements 1 GHz – 5 GHz (AVERAGE)**

<b>Radiated Emissions</b>								
Test By:	Test: Part 15 Digital device / Receive Mode				Client: Wireless Detection			
DPB	Project: 05-0073				Model: SR-002			
Frequency	Test Data	Test Data	AF+CA-AMP	Results	Limits	Distance /	Margin	PK = n
(MHz)	(dBm)	(dBuV)	(dB)	(uV/m)	(uV/m)	Polarity	(dB)	/ QP
NO EMISSIONS DETECTED WITHIN 20 dB OF THE FCC LIMIT								

**Test Date: March 28, 2005**

Tested by  
Signature: David P. Blethen

Name: David Blethen

**2.16 Power Line Conducted Emissions for Digital Device and Receiver**  
**FCC Section 15.107**

The conducted voltage measurements have been carried out in accordance with FCC Section 15.107, with a spectrum analyzer connected to a LISN and the EUT placed into an idle condition or a continuous mode of receive. Similar results were seen as compared to the EUT in a transmit mode of operation. **Therefore, please refer to the results as shown in Table 8a and 8b.**

## **2.17 Channel Separation**

The transmitter was placed into a typical frequency hopping mode of operation. Using an RBW and UBW of 30 kHz, the delta between 2 peaks was measured and the distance between them was noted. Characteristics of the time of occupancy are shown in Figure 9 and Table 10.

Report Number: 05-0073

Rev: 012804

Issue Date: April 1, 2005

Customer: Wireless Detection

Model: SR-002 Rev 02 System Repeater

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**TABLE 10**  
**CHANNEL SEPARATION**

Channel Separation	FCC Limit (Minimum)
410 kHz	25 kHz, 20 dB Bandwidth

**Figure 9**  
**Channel Separation FCC Section 15.247(a)(1)(ii)**

