



**Nemko Test Report:** 10233152RUS1

**Applicant:** Weathermatic  
3301 Kingsley Road  
Garland, TX 75041  
USA

**Equipment Under Test:  
(E.U.T.)** SLW5

**FCC ID#** OLPSLW5900MZ

**In Accordance With:** **FCC Part 15, Subpart C, 15.247**  
Frequency Hopping Transmitters

**Tested By:** Nemko USA Inc.  
802 N. Kealy  
Lewisville, Texas 75057-3136

**TESTED BY:**

A handwritten signature in black ink, appearing to read 'David Light'.

David Light, Senior Wireless Engineer

**DATE:** 16 November 2012

**APPROVED BY:**

A handwritten signature in black ink, appearing to read 'Michael Cantwell'.

Michael Cantwell, Reviewer

**DATE:** 29 April 2013

**Total Number of Pages:** 35

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**Section 1. Summary of Test Results**

Manufacturer: Weathermatic

Model No.: SLW5

Serial No.: None

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart C, Paragraph 15.247 for Frequency Hopping Spread Spectrum devices. Radiated tests were conducted in accordance with ANSI C63.4-2003. Radiated emissions are made on an open area test site. A description of the test facility is on file with the FCC.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE  
TEST SPECIFICATIONS HAVE BEEN MADE.

See " Summary of Test Data".



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**Summary Of Test Data**

| NAME OF TEST                              | PARA. NO.    | RESULT   |
|-------------------------------------------|--------------|----------|
| Powerline Conducted Emissions             | 15.207(a)    | NA       |
| Channel Separation                        | 15.247(a)(1) | Complies |
| Time of Occupancy                         | 15.247(a)(1) | Complies |
| 20 dB Occupied Bandwidth                  | 15.247(a)(1) | Complies |
| Peak Power Output                         | 15.247(b)    | Complies |
| Spurious Emissions<br>(Antenna Conducted) | 15.247(d)    | Complies |
| Spurious Emissions (Radiated)             | 15.247(d)    | Complies |

**Footnotes:**

The device is battery powered.

**Section 2.        Equipment Under Test (E.U.T.)****General Equipment Information****Frequency Band:**

- ☒ 902 – 928 MHz  
☐ 2400 – 2483.5 MHz  
☐ 5725 – 5850 MHz

**Operating Frequency Range:**

902.35 to 927.6 MHz

**Number of Channels:**

50

**Channel Spacing:**

513 kHz

**Channel Bandwidth:**

178 kHz

**User Frequency Adjustment:**

None

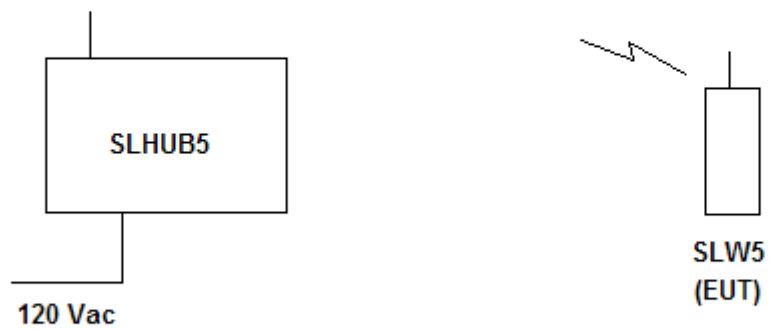
**Input Power:**

3 Vdc (2 AAA batteries)

## Description of EUT

The SLW 5 is an outdoor weather station that transmits weather conditions to the SLHUB5 to control lawn irrigation system.

## System Diagram



**Section 3. Channel Separation**

|                                  |                         |
|----------------------------------|-------------------------|
| NAME OF TEST: Channel Separation | PARA. NO.: 15.247(a)(1) |
| TESTED BY: David Light           | DATE: 15 November 2012  |

**Test Results:** Complies.

**Measurement Data:** See 20 dB BW plot

Measured 20 dB bandwidth: 178 kHz  
Channel Separation: 513 kHz

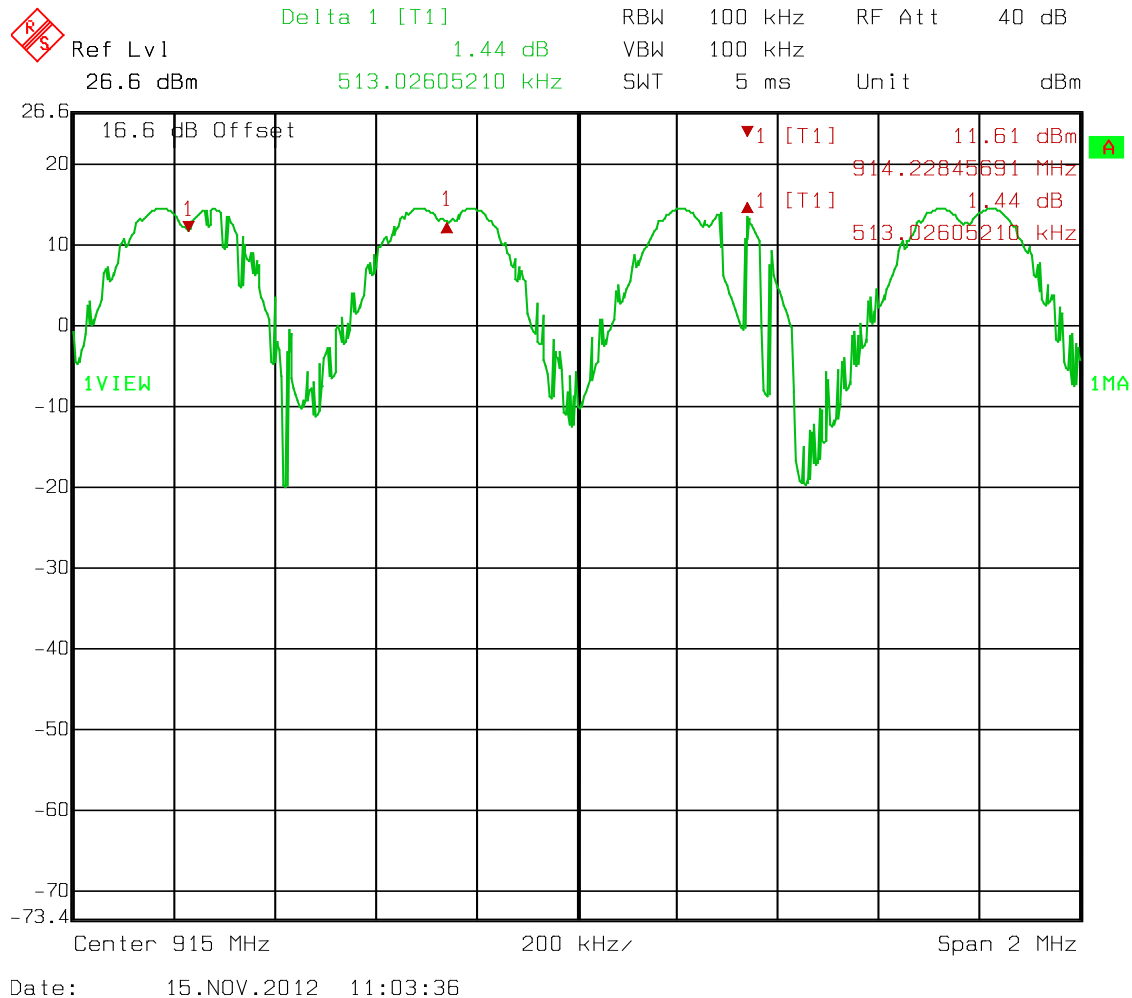
**Equipment Used:** 1036-1082-1472

**Measurement Uncertainty:** 1X10<sup>-7</sup>ppm

**Temperature:** 20 °C

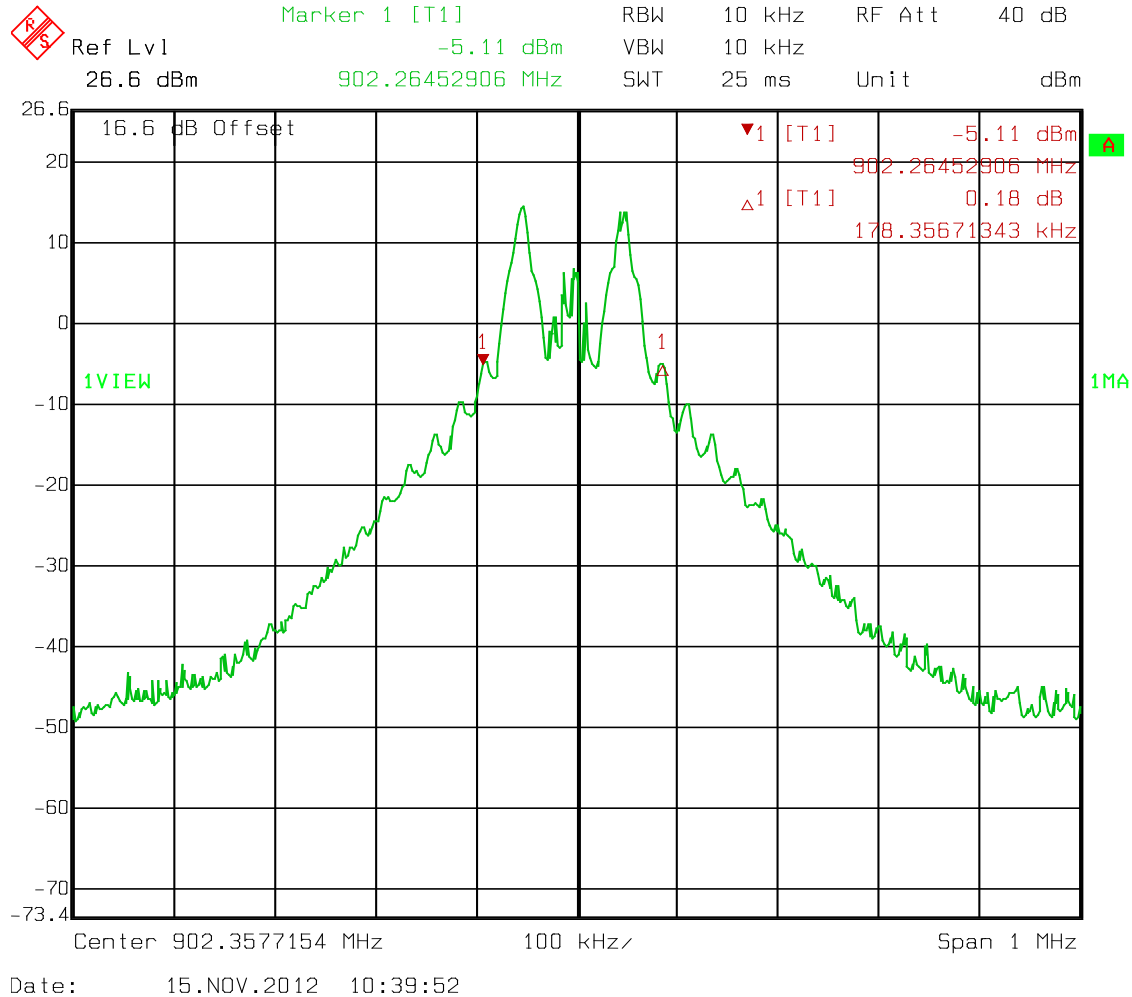
**Relative Humidity:** 31 %

## Test Data – Channel Separation



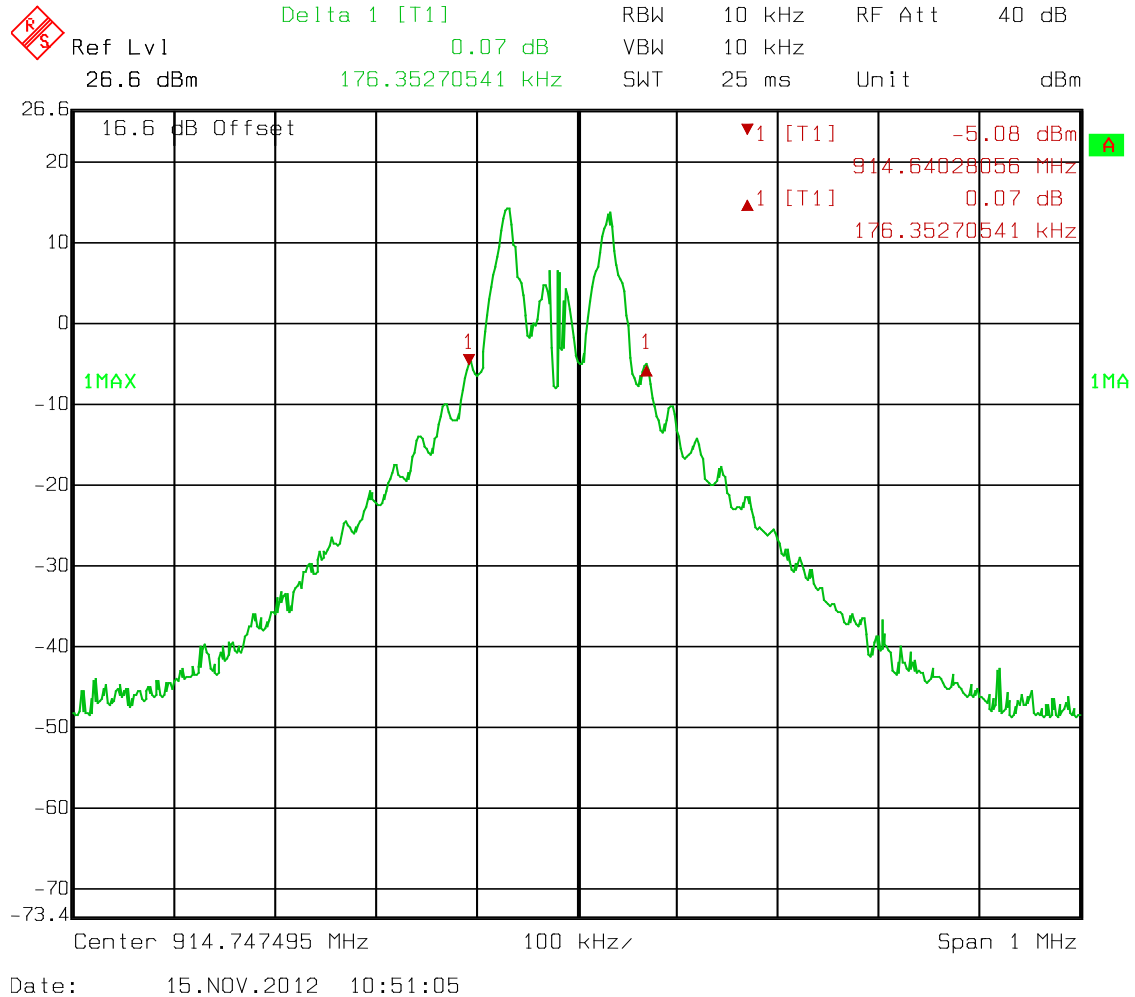
## Test Data – 20 dB Bandwidth

## Low Channel



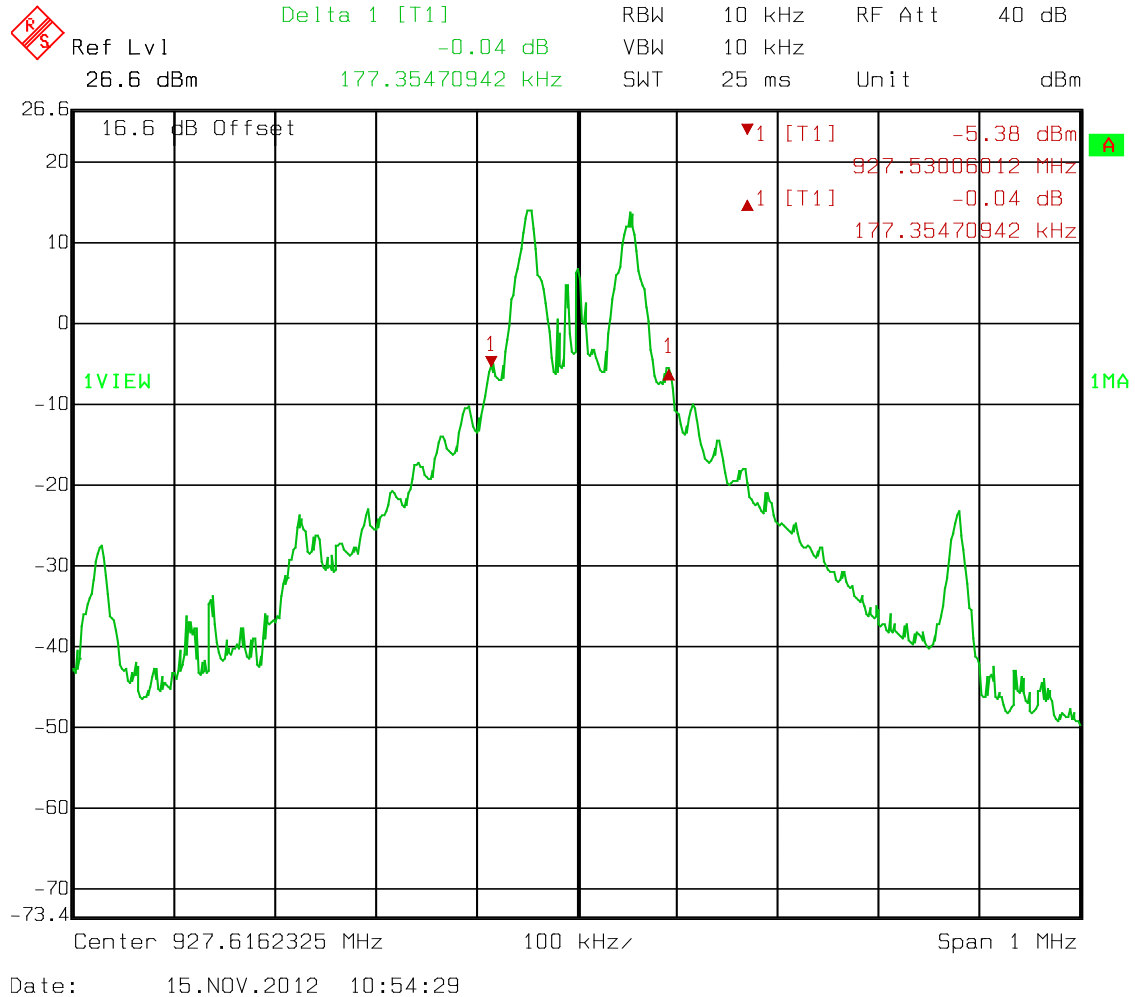
## Test Data – 20 dB Bandwidth

Mid Channel



## Test Data – 20 dB Bandwidth

## High Channel



**Section 4. Time of Occupancy**

|                                 |                         |
|---------------------------------|-------------------------|
| NAME OF TEST: Time of Occupancy | PARA. NO.: 15.247(a)(1) |
| TESTED BY: David Light          | DATE: 15 November 2012  |

**Test Results:** Complies.

**Measurement Data:** See attached plots

Maximum Dwell Time On Any Channel: 29.7 ms in 20 seconds

**Equipment Used:** 1036-1082-1472

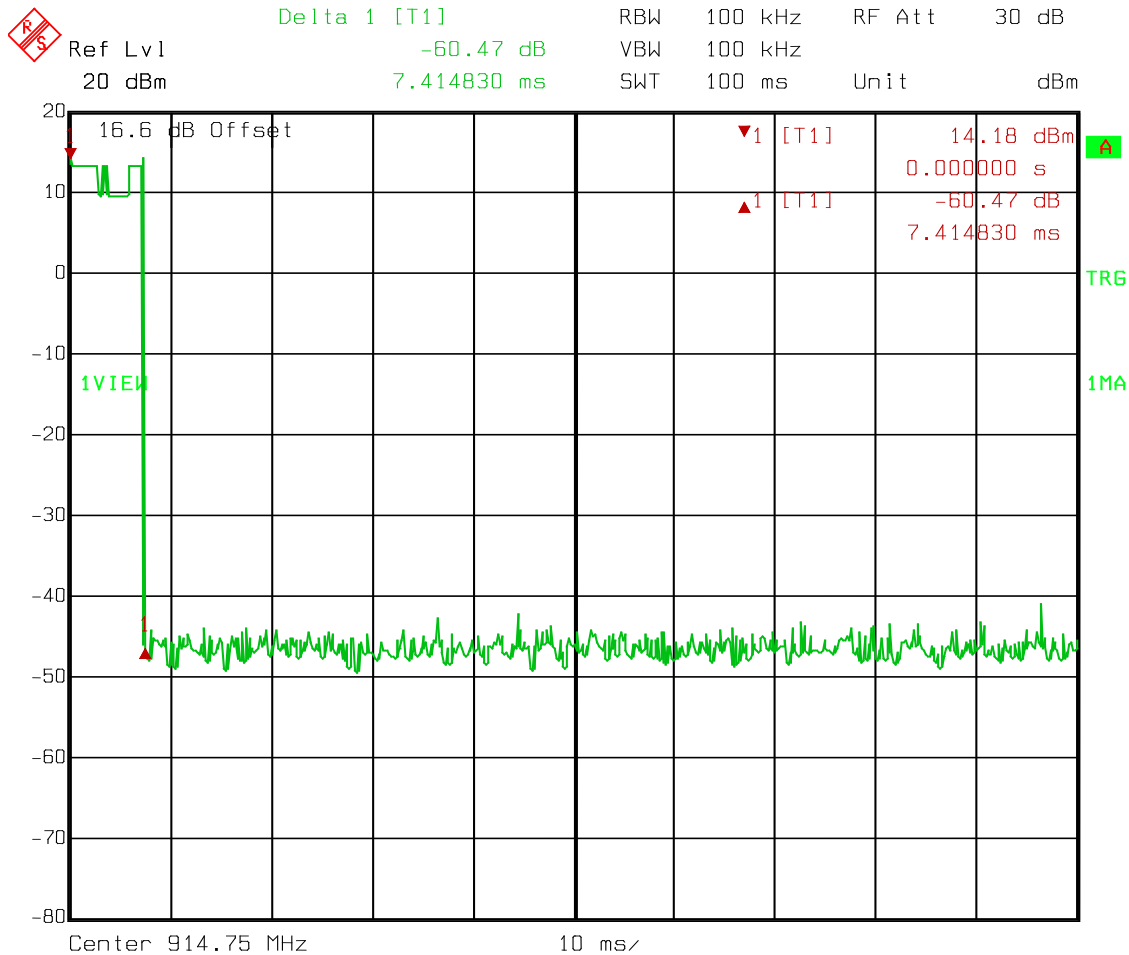
**Measurement Uncertainty:** 1X10<sup>-7</sup>ppm

**Temperature:** 20 °C

**Relative Humidity:** 31 %

# Test Data – Time of Occupancy

## Pulse Width



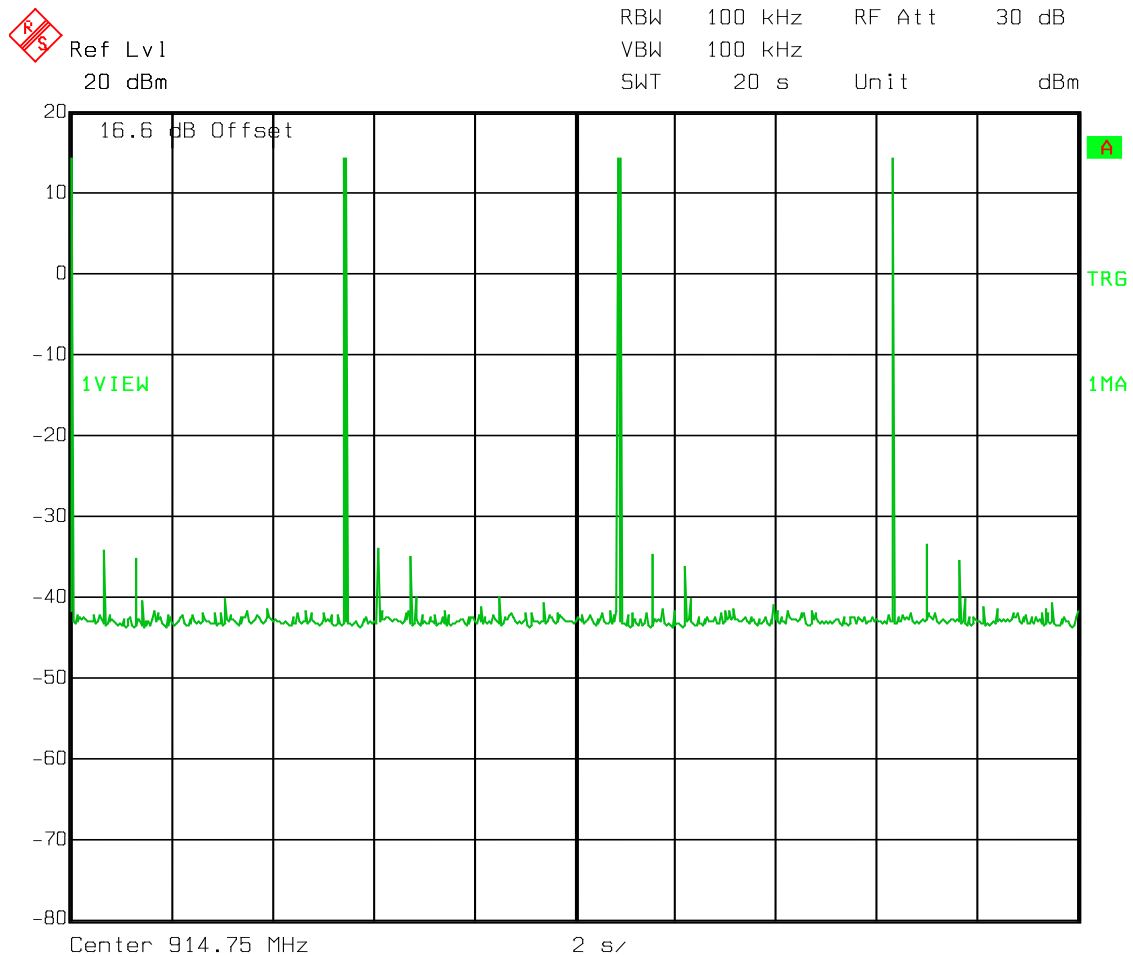
Date: 15.NOV.2012 11:05:39

**Test Data – Time of Occupancy**

Pulse Width

4 hops at 7.42 ms each = 29.68 ms within 20 seconds

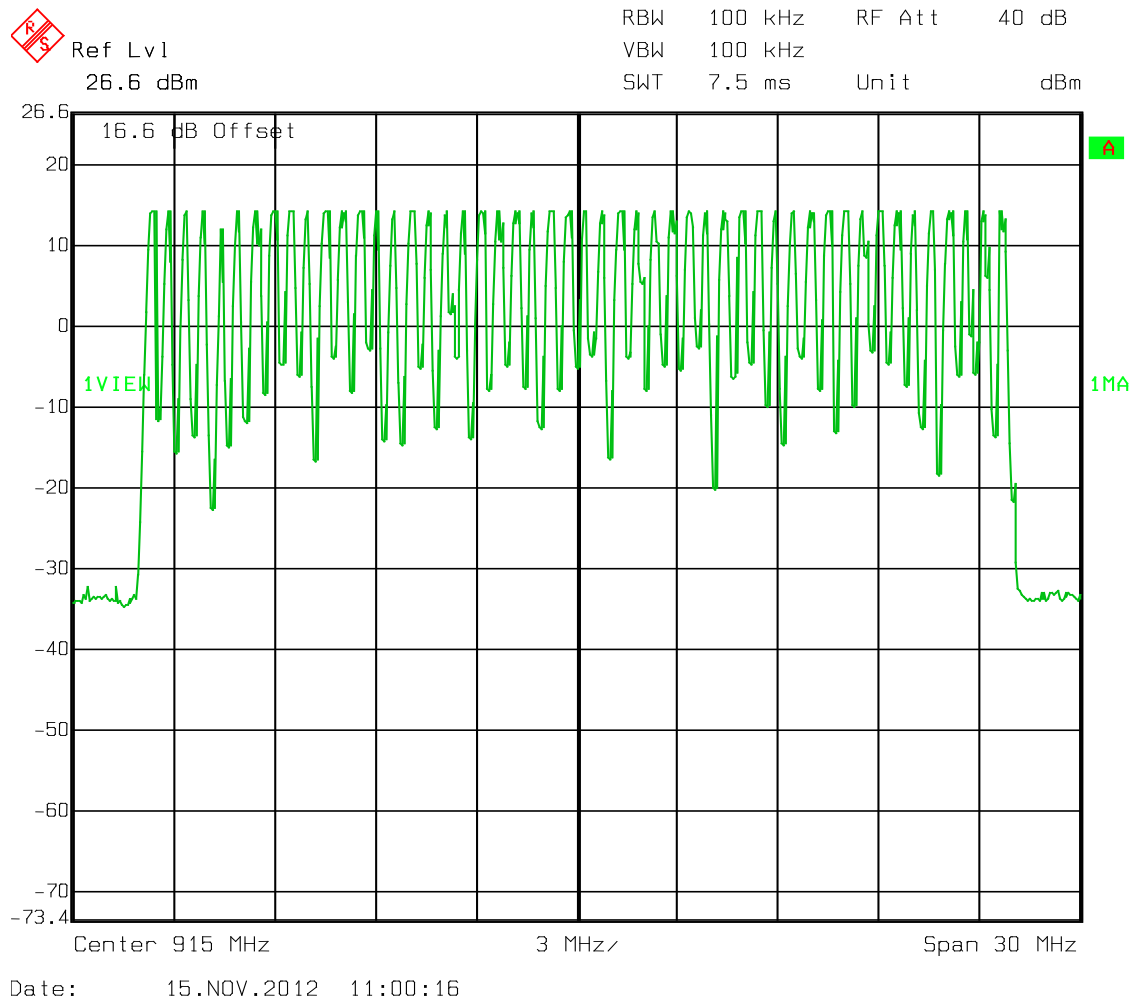
Limit = 400 ms within 20 seconds



Date: 15.NOV.2012 11:09:35

**Test Data – Time of Occupancy**

Number of hopping channels = 50



**Section 5. Peak Power Output**

|                                 |                        |
|---------------------------------|------------------------|
| NAME OF TEST: Peak Power Output | PARA. NO.: 15.247 (b)  |
| TESTED BY: David Light          | DATE: 15 November 2012 |

**Test Results:** Complies.

**Measurement Data:** See attached plots.

Detachable antenna? ☐ Yes ☒ No

If yes, state the type of non-standard connector used:

The antenna is permanently attached to the enclosure. A temporary connector was used for testing.

| Frequency (MHz)         | Peak Power (dBm) | Peak Power (W) | Antenna Type | Gain (dBi) | E.I.R.P. (dBm) | E.I.R.P. (W) |
|-------------------------|------------------|----------------|--------------|------------|----------------|--------------|
| 902.35                  | 14.6             | 0.029          | Monopole     | 0          | 14.6           | 0.029        |
| 914.75                  | 14.4             | 0.028          | Monopole     | 0          | 14.4           | 0.028        |
| 927.60                  | 14.3             | 0.027          | Monopole     | 0          | 14.3           | 0.027        |
| Maximum EIRP (W): 0.029 |                  |                |              |            |                |              |

- ☒ This device was tested at +/- 15% input power per 15.31(e), with no variation in output power.
- ☒ For battery powered equipment, the device was tested with a fresh battery per 15.31(e).
- ☒ The device was tested on three channels per 15.31(l).
- ☐ This test was performed radiated.

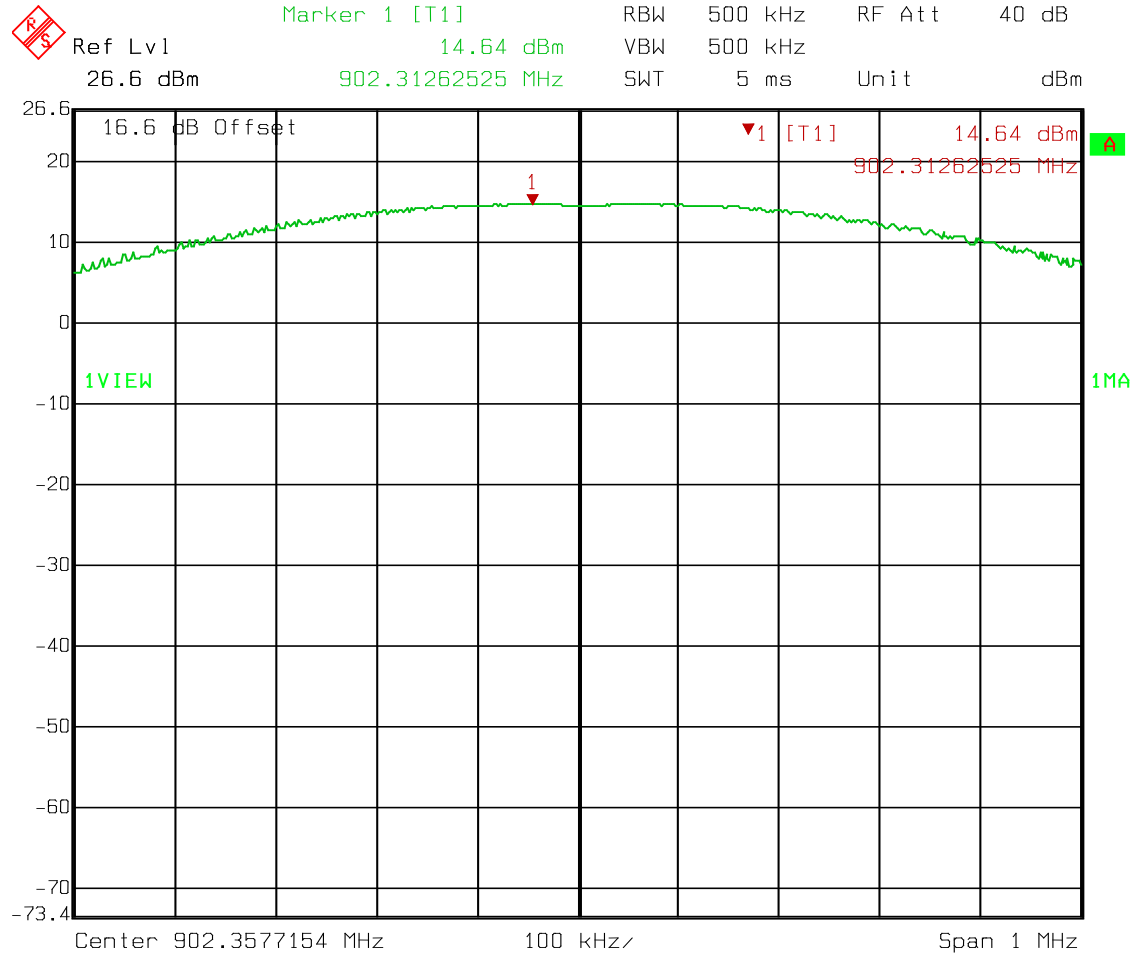
**Equipment Used:** 1036-1082-1472

**Measurement Uncertainty:** 1.7 dB

**Temperature:** 20 °C

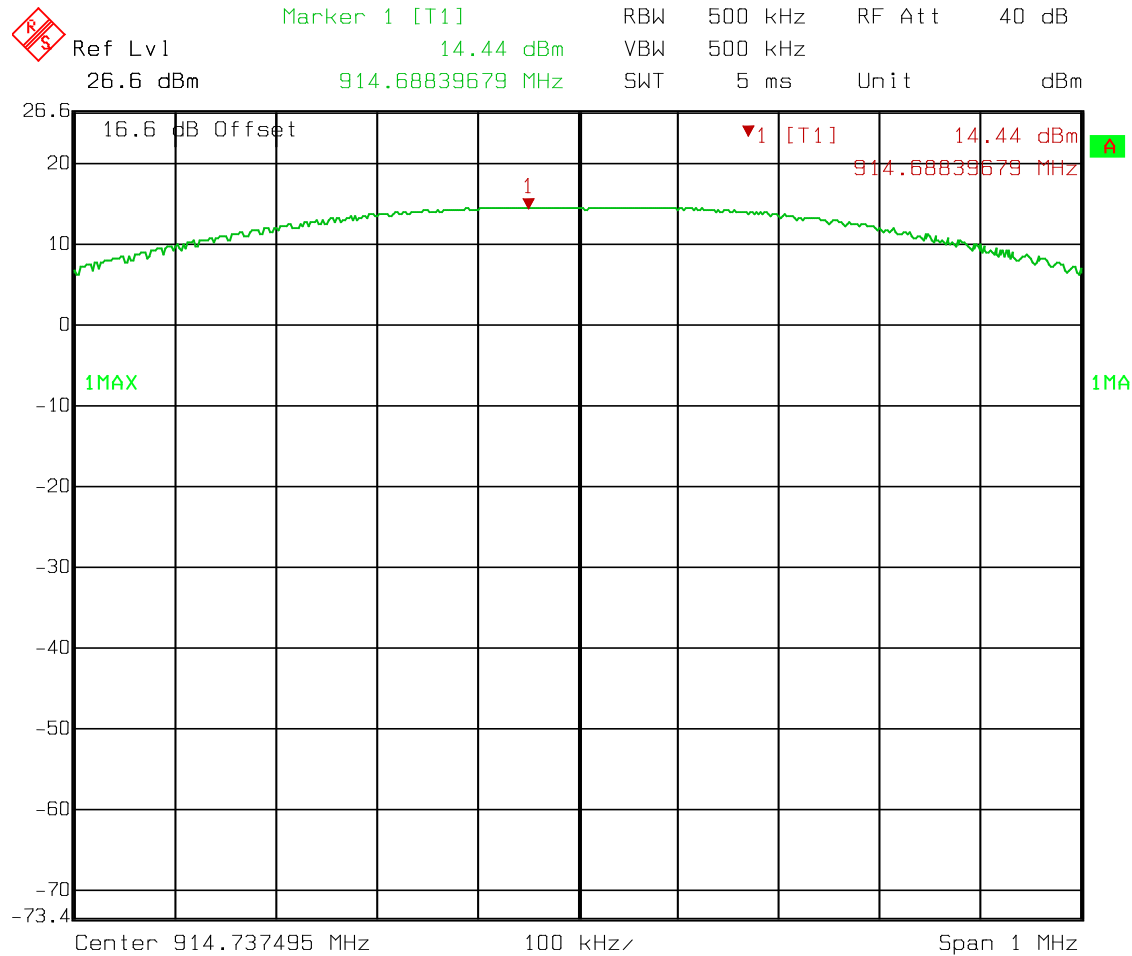
**Relative Humidity:** 31 %

Low channel



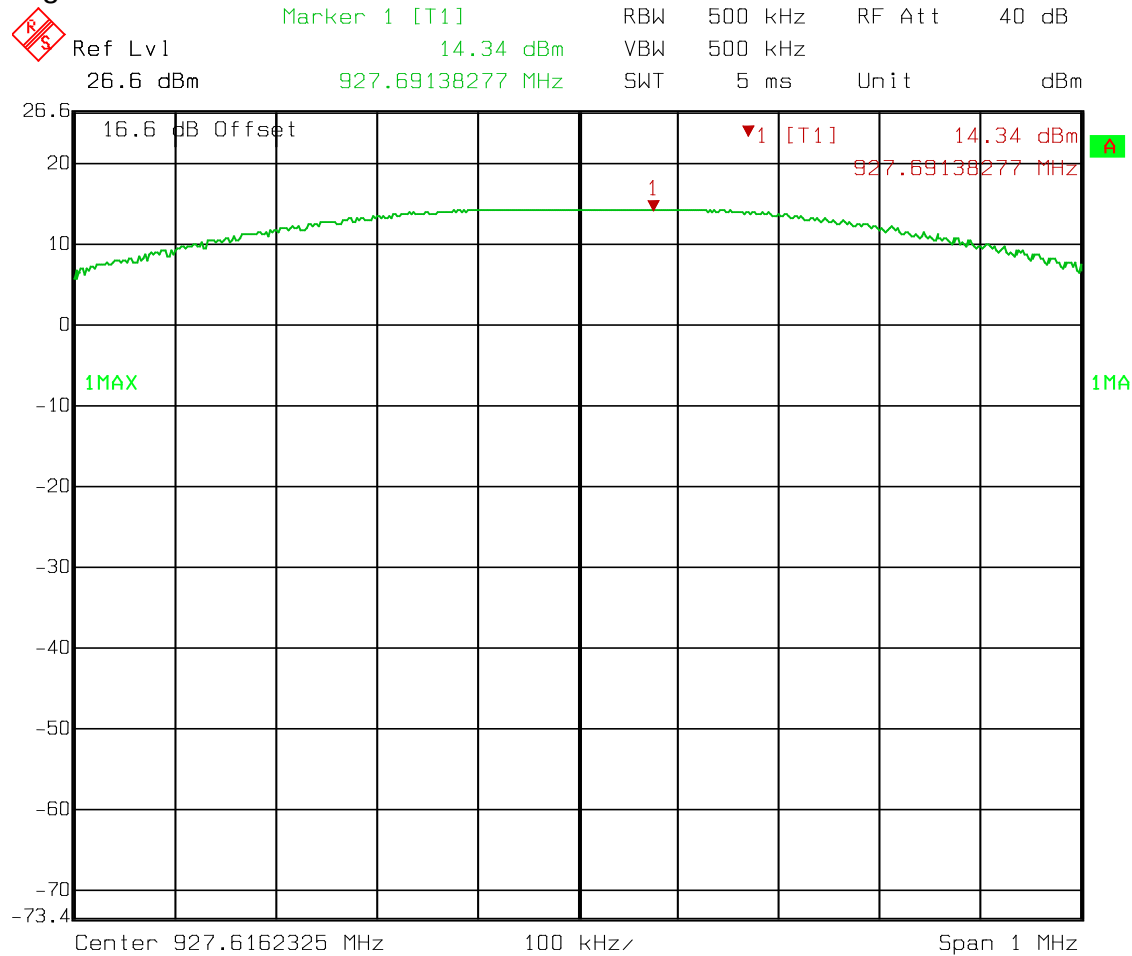
Date: 15.NOV.2012 10:40:42

## Mid channel



Date: 15.NOV.2012 10:51:46

## High channel



Date: 15.NOV.2012 10:55:06

**Section 6. Spurious Emissions (Antenna Conducted)**

|                                                      |                      |
|------------------------------------------------------|----------------------|
| NAME OF TEST: Spurious Emissions (Antenna Conducted) | PARA. NO.: 15.247(d) |
| TESTED BY: David Light                               | DATE: 15 Nov 2012    |

**Test Results:**

Complies.

**Measurement Data:** See attached plots.

**Equipment Used:** 1036-1082-1472

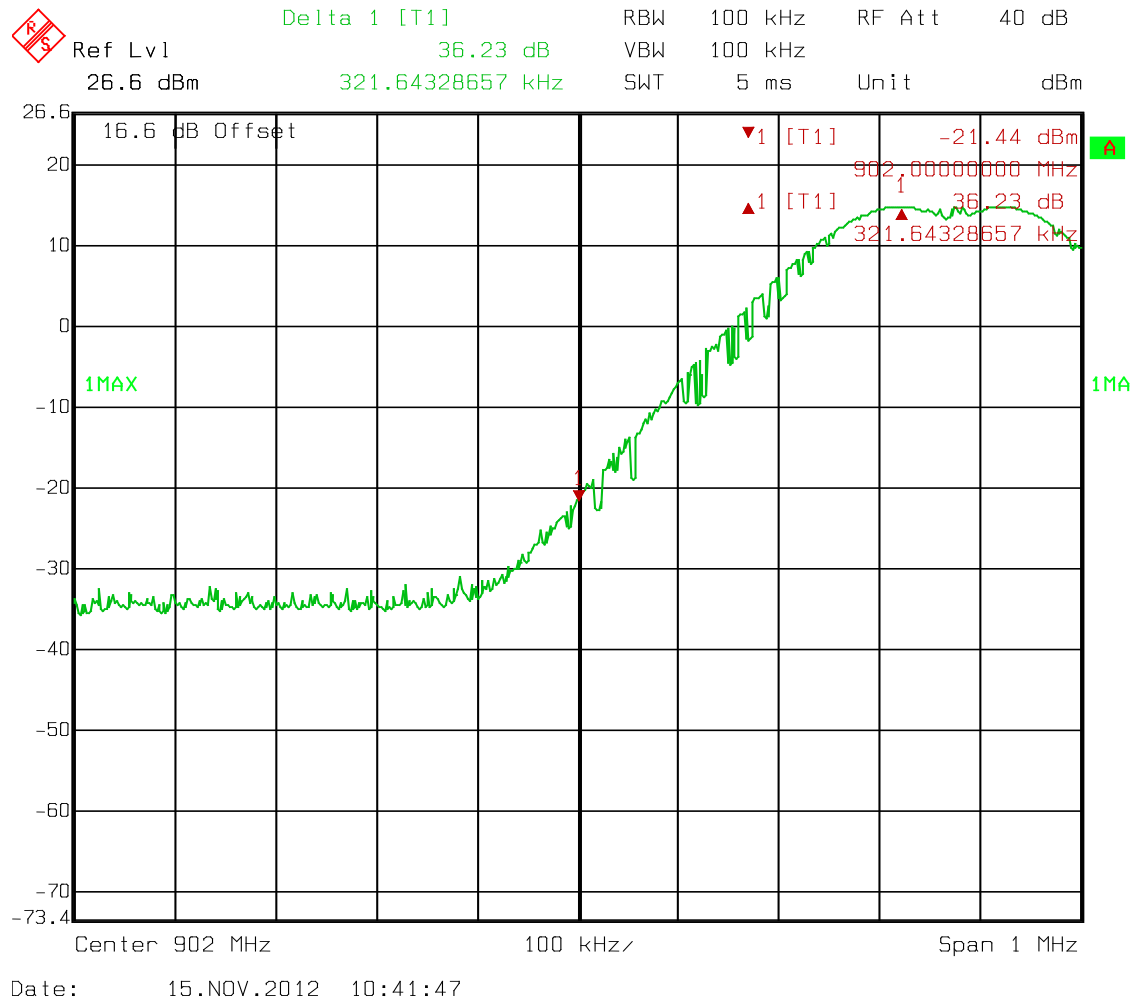
**Measurement Uncertainty:** 1X10<sup>-7</sup>ppm

**Temperature:** 20 °C

**Relative Humidity:** 31 %

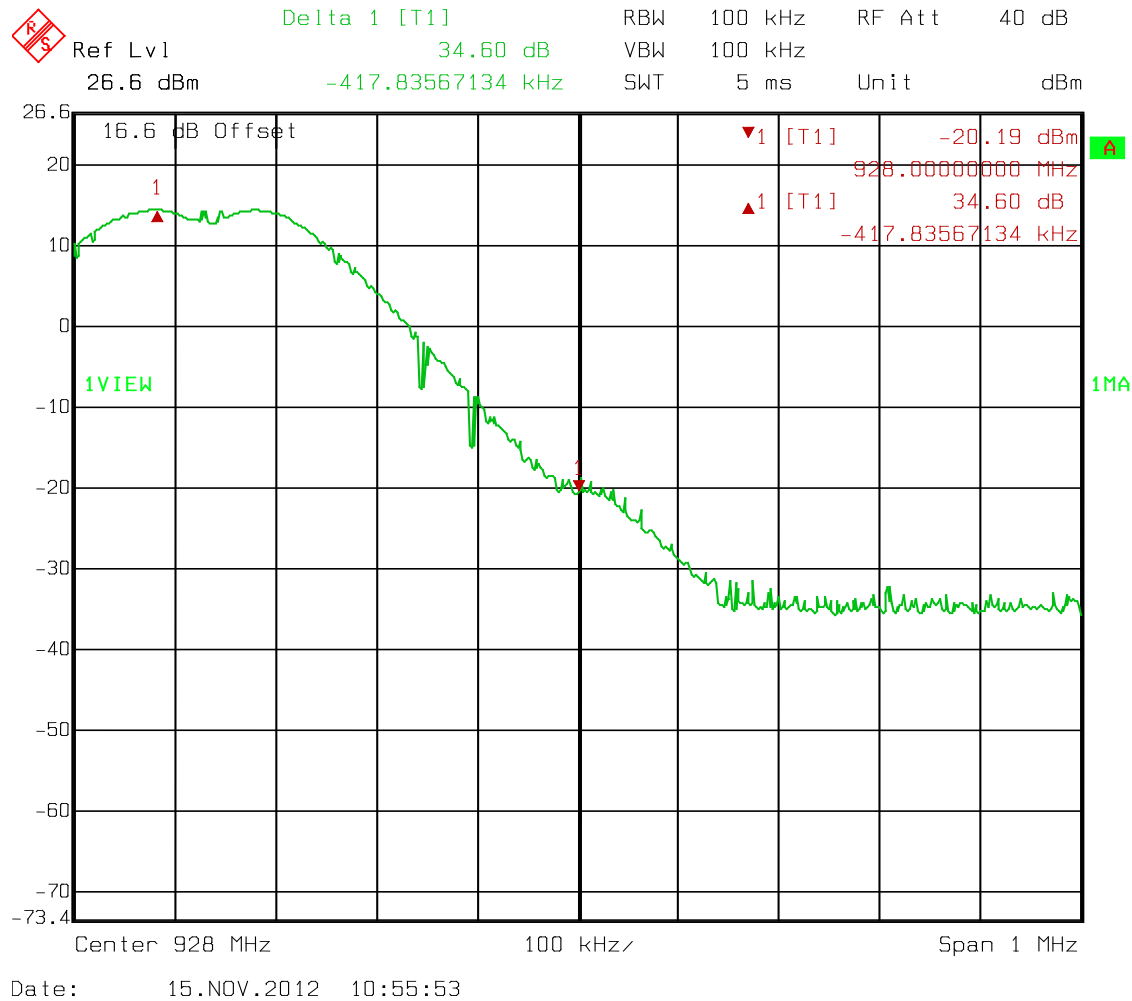
## Test Data – Spurious Emissions at Antenna Terminals

## Lower Band Edge



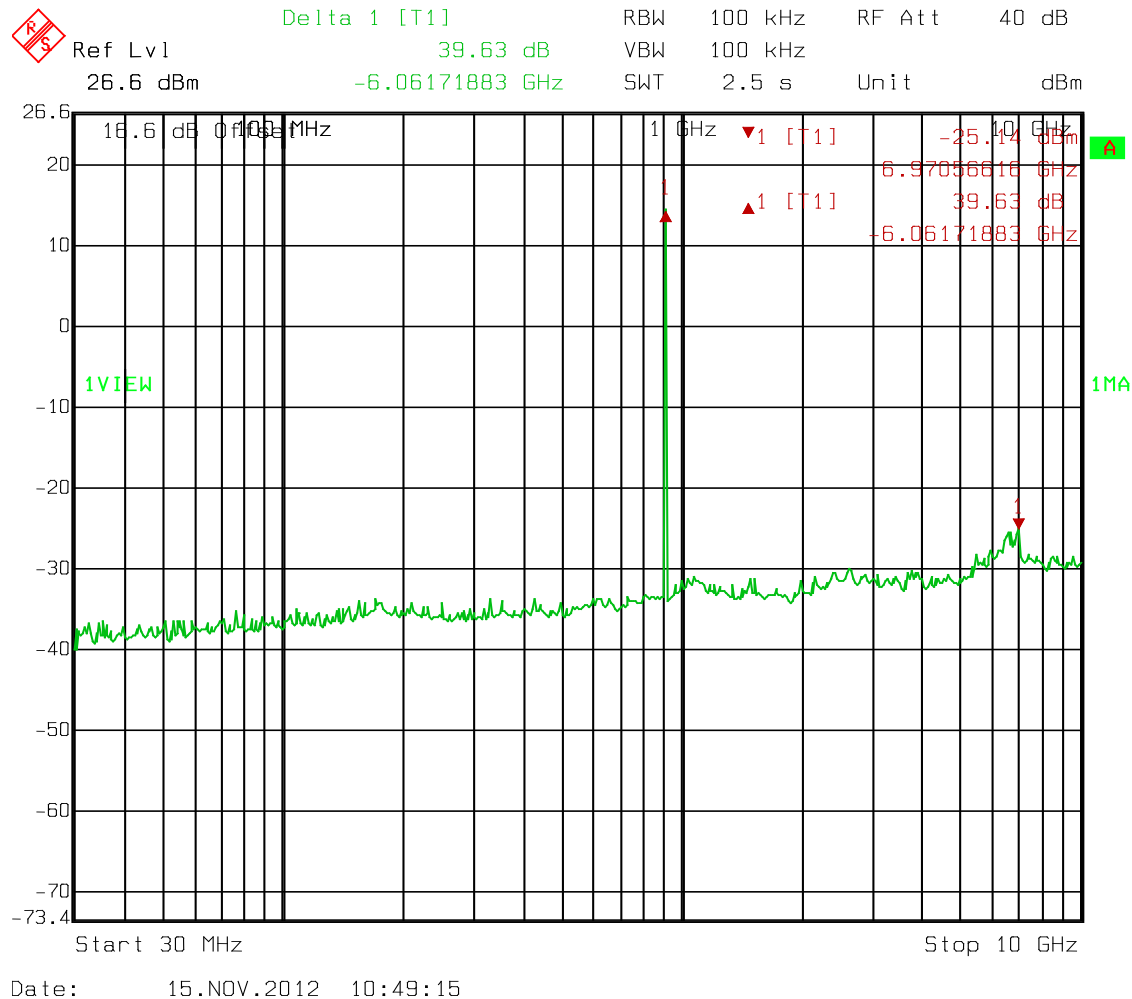
## Test Data – Spurious Emissions at Antenna Terminals

## Upper Band Edge



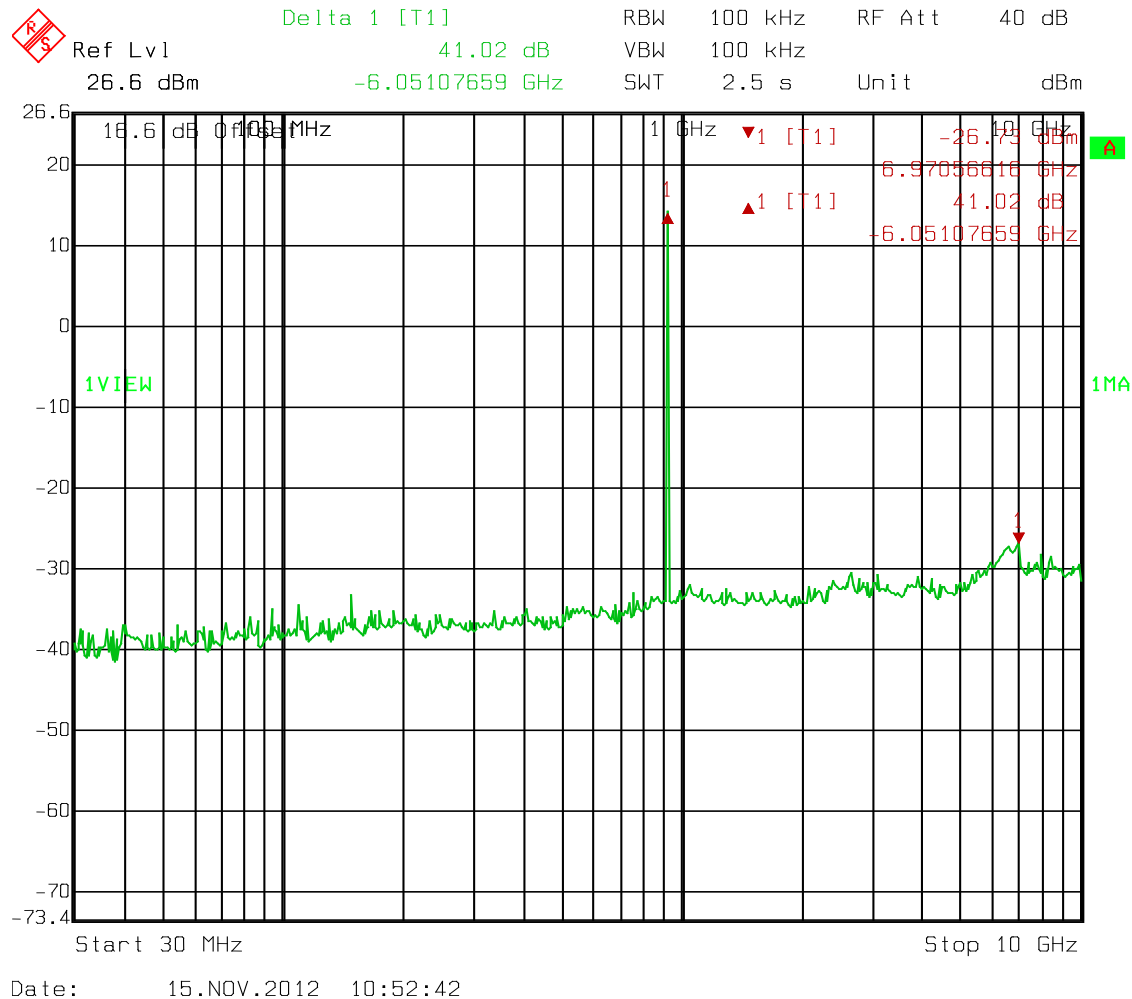
## Test Data – Spurious Emissions at Antenna Terminals

## Spurs – Low Channel



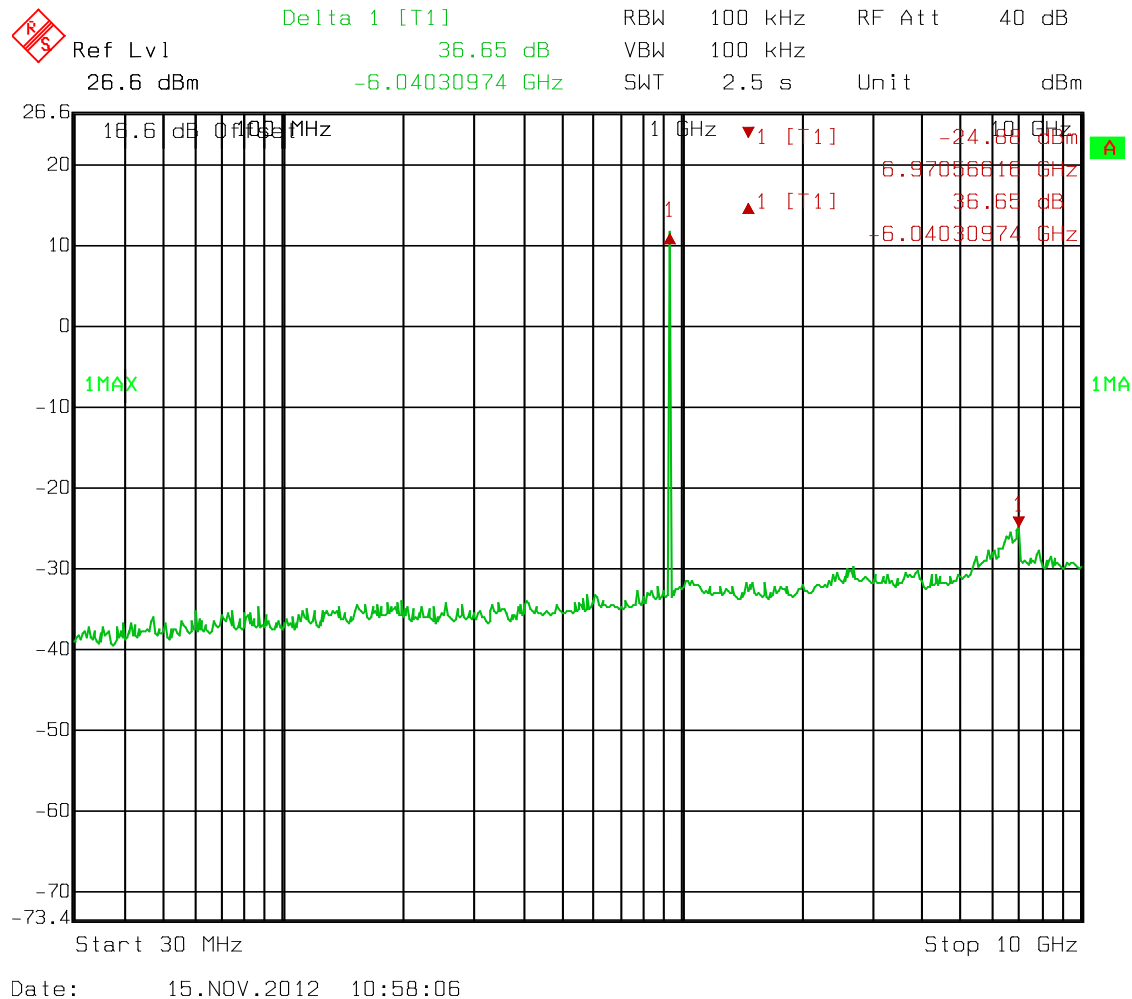
## Test Data – Spurious Emissions at Antenna Terminals

## Spurs – Mid Channel



## Test Data – Spurious Emissions at Antenna Terminals

## Spurs – High Channel



**Section 7. Spurious Emissions (Radiated)**

|                                             |                        |
|---------------------------------------------|------------------------|
| NAME OF TEST: Spurious Emissions (Radiated) | PARA. NO.: 15.247(d)   |
| TESTED BY: David Light                      | DATE: 15 November 2012 |

**Test Results:** Complies. The worst case emission was 41.5 dB $\mu$ V/m at 6492.3 MHz. This is 12.5 dB below the specification limit of 54.0 dB $\mu$ V/m.

**Measurement Data:** See attached table.

**Duty Cycle Calculation:**

Duty Cycle correction factor(dB) = 20 log (rf<sub>ON</sub> in ms/100ms)

Notes:

- ☐ For handheld devices, the EUT was tested on three orthogonal axis'
- ☒ The device was tested from 30 MHz to the tenth harmonic of the highest fundamental frequency per 15.33
- ☒ The device was tested on three channels per 15.31(l).
- ☒ All emissions within 20 dB of the specification limit are reported per 15.31(o).

**Equipment Used:** 1036-1025-1016-993-1480-1783

**Measurement Uncertainty:** +/-3.6 dB

**Temperature:** 20 °C

**Relative Humidity:** 31 %

## Test Data - Radiated Emissions

| Meas.   | Ant.  | Duty  | Meter   | Antenna | Path | RF   | Corrected | Spec.    | CR/SL | Pass |          |      |
|---------|-------|-------|---------|---------|------|------|-----------|----------|-------|------|----------|------|
| Freq.   | Pol.  | Cycle | Reading | Factor  | Loss | Gain | Reading   | limit    | Diff. | Fail |          |      |
| (MHz)   | (H/V) | (dB)  | (dBuV)  | (dB)    | (dB) | (dB) | (dBuV/m)  | (dBuV/m) | (dB)  | Unc. | Comments |      |
|         |       |       |         |         |      |      |           |          |       |      | Low Ch.  | SLW5 |
| 6316.45 | H     | 0     | 45      | 35.2    | 5.3  | 30   | 55.5      | 74       | -18.5 | Pass | Peak     |      |
| 6316.45 | H     | -20   | 45      | 35.2    | 5.3  | 30   | 35.5      | 54       | -18.5 | Pass | Average  |      |
|         |       |       |         |         |      |      |           |          |       |      |          |      |
|         |       |       |         |         |      |      |           |          |       |      | Mid Ch.  | SLW5 |
| 6403.25 | H     | 0     | 45.3    | 35.2    | 5.3  | 30   | 55.8      | 74       | -18.2 | Pass | Peak     |      |
| 6403.25 | H     | -20   | 45.3    | 35.2    | 5.3  | 30   | 35.8      | 54       | -18.2 | Pass | Average  |      |
| 6403.25 | V     | 0     | 44.3    | 35.2    | 5.3  | 30   | 54.8      | 74       | -19.2 | Pass | Peak     |      |
| 6403.25 | V     | -20   | 44.3    | 35.2    | 5.3  | 30   | 34.8      | 54       | -19.2 | Pass | Average  |      |
|         |       |       |         |         |      |      |           |          |       |      |          |      |
|         |       |       |         |         |      |      |           |          |       |      | High Ch. | SLW5 |
| 6493.2  | V     | 0     | 45.6    | 35.2    | 5.3  | 30   | 56.1      | 74       | -17.9 | Pass | Peak     |      |
| 6493.2  | V     | -20   | 45.6    | 35.2    | 5.3  | 30   | 36.1      | 54       | -17.9 | Pass | Average  |      |
| 6493.2  | H     | 0     | 51      | 35.2    | 5.3  | 30   | 61.5      | 74       | -12.5 | Pass | Peak     |      |
| 6493.2  | H     | -20   | 51      | 35.2    | 5.3  | 30   | 41.5      | 54       | -12.5 | Pass | Average  |      |
|         |       |       |         |         |      |      |           |          |       |      |          |      |
|         |       |       |         |         |      |      |           |          |       |      |          |      |
|         |       |       |         |         |      |      |           |          |       |      |          |      |
|         |       |       |         |         |      |      |           |          |       |      |          |      |

**Section 8. Test Equipment List**

| Asset Tag | Description           | Manufacturer        | Model                  | Serial #   | Last Cal    | Next Cal    |
|-----------|-----------------------|---------------------|------------------------|------------|-------------|-------------|
| 993       | Antenna,<br>Horn      | A.H. Systems        | SAS-200/571            | 162        | 22-Sep-2011 | 22-Sep-2013 |
| 1016      | Preamplifier          | Hewlett<br>Packard  | 8449A                  | 2749A00159 | 23-Jul-2012 | 23-Jul-2013 |
| 1025      | Preamplifier,<br>25dB | Nemko USA,<br>Inc.  | LNA25                  | 399        | 27-Feb-2012 | 27-Feb-2013 |
| 1036      | Spectrum<br>Analyzer  | Rohde &<br>Schwartz | FSEK30                 | 830844/006 | 23-Dec-2011 | 23-Dec-2013 |
| 1082      | Cable, 2m             | Astrolab            | 32027-2-<br>29094-72TC |            | N/R         |             |
| 1472      | Attenuator            | Omni Spectra        | 20600-20db             |            | N/R         |             |
| 1480      | Antenna,<br>Bilog     | Schaffner-<br>Chase | CBL6111C               | 2572       | 07-Feb-2012 | 07-Feb-2013 |
| 1783      | Cable Assy,           | Nemko               | Chamber                |            | 26-Sep-2012 | 26-Sep-2013 |

## **ANNEX A - TEST DETAILS**

|                                         |                                |
|-----------------------------------------|--------------------------------|
| <b>NAME OF TEST:</b> Channel Separation | <b>PARA. NO.:</b> 15.247(a)(1) |
|-----------------------------------------|--------------------------------|

**Minimum Standard:**

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

NAME OF TEST: Time of Occupancy

PARA. NO.: 15.247(a)(1)

**Minimum Standard:**

| Frequency Band (MHz) | 20 dB Bandwidth | No. of Hopping Channels | Average Time of Occupancy                                                        |
|----------------------|-----------------|-------------------------|----------------------------------------------------------------------------------|
| 902 - 928            | <250 kHz        | 50                      | =<0.4 sec. in 20 sec.                                                            |
| 902 – 928            | =>250 kHz       | 25                      | =<0.4 sec. in 10 sec.                                                            |
| 2400 – 2483.5        | -----           | 75                      | =<0.4 sec. in 0.4 seconds multiplied by the number of hopping channels employed. |
| 5725 – 5850          | -----           | 75                      | =<0.4 sec. in 30 sec.                                                            |

**Method Of Measurement:**

The spectrum analyzer is set as follows:

RBW: 1 MHz

VBW: = RBW

Span: 0 Hz

LOG dB/div.: 10 dB

Sweep: Sufficient to see one hop time sequence.

Trigger: Video

The occupancy time of one hop is measured as above. The average time of occupancy is calculated over the appropriate period of time from above table

Avg. time of occupancy = (period from table/duration of one hop)/no. of channels multiplied by the duration of one hop.

For instance:

If a 2.4 GHz system has a measured hop duration time of 1 msec. and uses 75 channels, then the average time of occupancy would be:

$(30 \text{ sec.} / .001 \text{ sec.}) / 75 \text{ chan.} = 400 \times 1 \text{ msec.} = 400 \text{ msec. or } 0.4 \text{ sec. in } 30 \text{ sec.}$

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 15.247(a)(1)

**Minimum Standard:**

| Frequency Band (MHz) | Maximum 20 dB Bandwidth |
|----------------------|-------------------------|
| 902 - 928            | 500 kHz                 |
| 2400 – 2483.5        | Not defined             |
| 5725 – 5850          | 1 MHz                   |

**Method Of Measurement:**

The spectrum analyzer is set as follows:

RBW: At least 1% of span/div.

VBW: >RBW

Span: Sufficient to display 20 dB bandwidth

LOG dB/div.: 10 dB

Sweep: Auto

**Number of channels tested:**

| Tuning range     | Number of channels tested | Channel location in band |
|------------------|---------------------------|--------------------------|
| 1 MHz or less    | 1                         | middle                   |
| 1 to 10 MHz      | 2                         | top and bottom           |
| more than 10 MHz | 3                         | top, middle, bottom      |

NAME OF TEST: Peak Power Output

PARA. NO.: 15.247(b)

---

**Minimum Standard:**

| Frequency Band (MHz) | No. of Hopping Channels | Maximum Peak Power Output at Antenna Port |
|----------------------|-------------------------|-------------------------------------------|
| 902 - 928            | at least 50             | 1 watt                                    |
| 902 – 928            | 25 - 49                 | 0.25 watts                                |
| 2400 – 2483.5        | 75                      | 1 watt                                    |
| 5725 – 5850          | 75                      | 1 watt                                    |

If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point to point operation may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceed 6 dBi.

Systems operating in the 5725 – 5850 MHz band that are used exclusively for fixed, point-to-point operation may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter peak output power.

**Direct Measurement Method For Detachable Antennas:**

If the antenna is detachable, a peak power meter is used to measure the power output with the transmitter operating into a 50 ohm load. The dBi gain of the antenna(s) employed shall be reported.

**Calculation Of EIRP For Integral Antenna:**

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation  $GP/4\pi R^2 = E^2/120\pi$  and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

E = the maximum measured field strength in V/m

R = the measurement range (3 meters)

G = the numeric gain of the transmit antenna in relation to an isotropic radiator

The RBW of the spectrum analyzer shall be set to a value greater than the measured 20 dB occupied bandwidth of the E.U.T.

Number of channels tested:

| Tuning range     | Number of channels tested | Channel location in band |
|------------------|---------------------------|--------------------------|
| 1 MHz or less    | 1                         | middle                   |
| 1 to 10 MHz      | 2                         | top and bottom           |
| more than 10 MHz | 3                         | top, middle, bottom      |

|                                                       |                      |
|-------------------------------------------------------|----------------------|
| NAME OF TEST: Spurious Emissions at Antenna Terminals | PARA. NO.: 15.247(d) |
|-------------------------------------------------------|----------------------|

**Minimum Standard:** In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

| Frequency (MHz) | Field Strength ( $\mu\text{V/m}$ @ 3m) | Field Strength (dB @ 3m) |
|-----------------|----------------------------------------|--------------------------|
| 30 - 88         | 100                                    | 40.0                     |
| 88 - 216        | 150                                    | 43.5                     |
| 216 - 960       | 200                                    | 46.0                     |
| Above 960       | 500                                    | 54.0                     |

**THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC**

**Method Of Measurement:**

30 MHz - 10th harmonic plot

RBW: 100 kHz

VBW: 300 kHz

Sweep: Auto

Display line: -20 dBc

Lower Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 902 MHz, 2400 MHz, or 5725 MHz

Marker: Peak of fundamental emission

Marker  $\Delta$ : Peak of highest spurious level below center frequency.

Upper Band Edge

RBW: At least 1% of span/div.

VBW: >RBW

Span: As necessary to display any spurious at band edge.

Sweep: Auto

Center Frequency: 928 MHz, 2483.5 MHz, or 5850 MHz

Marker: Peak of fundamental emission

Marker  $\Delta$ : Peak of highest spurious level above center frequency.

Number of channels tested:

| Tuning range     | Number of channels tested | Channel location in band |
|------------------|---------------------------|--------------------------|
| 1 MHz or less    | 1                         | middle                   |
| 1 to 10 MHz      | 2                         | top and bottom           |
| more than 10 MHz | 3                         | top, middle, bottom      |

NAME OF TEST: Radiated Spurious Emissions

PARA. NO.: 15.247(d)

**Minimum Standard:**

In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits:

**Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:**

| Frequency (MHz) | Field Strength ( $\mu\text{V/m}$ @ 3m) | Field Strength (dB @ 3m) |
|-----------------|----------------------------------------|--------------------------|
| 30 - 88         | 100                                    | 40.0                     |
| 88 - 216        | 150                                    | 43.5                     |
| 216 - 960       | 200                                    | 46.0                     |
| Above 960       | 500                                    | 54.0                     |

**THE SPECTRUM WAS SEARCHED TO THE 10th HARMONIC**

**15.205 Restricted Bands**

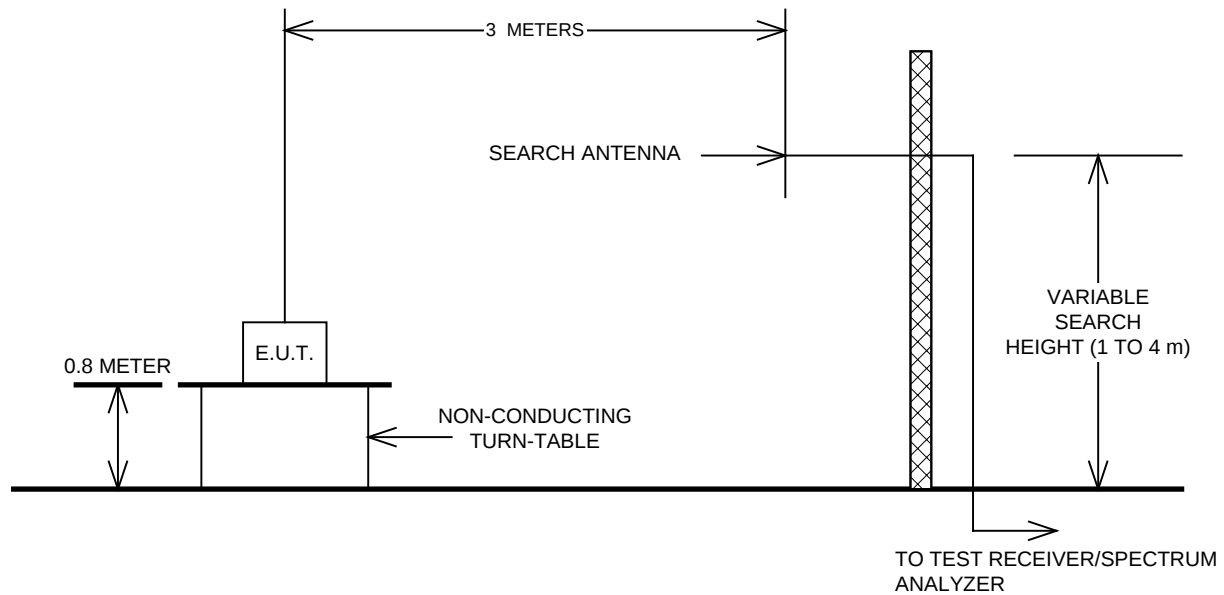
| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.09-0.11         | 16.42-16.423        | 399.9-410     | 4.5-5.25    |
| 0.495-0.505       | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.125-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 108-121.94          | 1718.8-1722.2 | 13.25-13.4  |
| 6.31175-6.31225   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2655-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | Above 38.6  |
| 13.36-13.41       | 1718                |               |             |

Number of channels tested:

| Tuning range     | Number of channels tested | Channel location in band |
|------------------|---------------------------|--------------------------|
| 1 MHz or less    | 1                         | middle                   |
| 1 to 10 MHz      | 2                         | top and bottom           |
| more than 10 MHz | 3                         | top, middle, bottom      |

## **ANNEX B - TEST DIAGRAMS**

### Test Site For Radiated Emissions



### Conducted at Antenna Terminal

