



# FCC TEST REPORT

|              |                   |
|--------------|-------------------|
| Product Name | Wireless Repeater |
| Model Name   | RSN-iDEN-25-C     |
| Applicant    | R-tron Inc.       |
| FCC ID       | STESNIDEN25C      |

## ESTECH CO., LTD

Rm. 1015 World Venture Center, 426-5 Gasan-dong, Geumcheon-gu,  
Seoul, 153-803, Korea. Tel:82-2-867-3201, Fax:82-2-867-3204



## FCC Test Report

|                                                                                                                                                                                                                                                                |                                                |                                                                           |                   |                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------|-------------------|-----------------------|
| Report Number                                                                                                                                                                                                                                                  | ESTR0802-001                                   |                                                                           |                   |                       |
| Applicant                                                                                                                                                                                                                                                      | Company Name                                   | R-tron Inc.                                                               |                   |                       |
|                                                                                                                                                                                                                                                                | Address                                        | Jisan IT Venture Center 3F, 1004-9 Doksna-Dong, Gumcheon-Gu, Seoul, Korea |                   |                       |
| Product                                                                                                                                                                                                                                                        | Product Name                                   | Wireless Repeater                                                         |                   |                       |
|                                                                                                                                                                                                                                                                | Model No.                                      | RSN-iDEN-25-C                                                             | Manufacturer      | R-tron Inc.           |
|                                                                                                                                                                                                                                                                | Serial No.                                     | NONE                                                                      | Country of origin | KOREA                 |
| Other                                                                                                                                                                                                                                                          | Issued Date                                    | 2008-02-13                                                                | Tested Date       | 2008-1-21 ~ 2008-2-12 |
| Test Result                                                                                                                                                                                                                                                    | Pass                                           |                                                                           |                   |                       |
| Standard                                                                                                                                                                                                                                                       | FCC PART 90 Subpart I                          |                                                                           |                   |                       |
| Tested by                                                                                                                                                                                                                                                      | I.K. Hong/ Engineer (Signature)                |                                                                           |                   |                       |
| Approved by                                                                                                                                                                                                                                                    | Eun-young Son/ Engineering Manager (Signature) |                                                                           |                   |                       |
| <div><b>ESTECH CO., LTD</b></div> <div>Rm. 1015 World Venture Center, 426-5 Gasan-dong, Geumcheon-gu,<br/>Seoul, 153-803, Korea. Tel:82-2-867-3201, Fax:82-2-867-3204</div>                                                                                    |                                                |                                                                           |                   |                       |
| <p>o This is certified that the above mentioned products have been tested for the sample provided by client.</p> <p>o No part of this document may not be duplicated or reproduced by any means without the express written permission of Estech Co., Ltd.</p> |                                                |                                                                           |                   |                       |



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## 1. General Information

### 1.1 EUT Description

|                 |                                      |
|-----------------|--------------------------------------|
| FCC ID          | STESNIDEN25C                         |
| Product Name    | Wireless Repeater                    |
| Model Name      | RSN-iDEN-25-C                        |
| Frequency       | Tx :806MHz – 824MHz, 896MHz – 901MHz |
|                 | Rx :851MHz - 869MHz, 935MHz - 940MHz |
| Modulation Type | iDen(QAM)                            |
| Power Rating    | AC110V                               |



## 2. Laboratory Information

**2.1 Laboratory Name** Estech Co., Ltd.

**2.2 Location**

**Head Office** Rm. 1015, World Venture Center II, 426-5 Gasan-dong  
 Geumcheon-gu, Seoul, 153-803. Korea.

**EMC Lab(Ichon)** 58-1, Osan-Ri, GaNam-Myon, YeoJoo-Gun, KyungKi-Do, Korea

**EMC Lab(Yanggi)** 97-1, Hoiuk-Ri Majang-Myon, Icheon-city, KyungKi-Do, Korea

**2.3 Quality System** Accredited by KOLAS(ISO/IEC 17025)

**2.4 Major Accredited Mark**



**Industry Canada** **Industrie Canada**



## 3. Summary of Test Results

| Test Item                                          | Standard | Result |
|----------------------------------------------------|----------|--------|
| RF Output Power                                    | Part 90  | PASS   |
| Occupied Bandwidth                                 |          | PASS   |
| Spurious and Harmonic Emission at Antenna Terminal |          | PASS   |
| Field Strength of Spurious Radiation               |          | PASS   |
| Frequency stability                                |          | PASS   |
|                                                    |          |        |
|                                                    |          |        |



## 4. RF Output Power

### 4.1 Test Procedure

The EUT was placed on a wooden turn table 3 meters from the receive antenna. The receive antenna height and turn table rotation was adjusted for the highest reading on the receive spectrum analyzer. For CDMA signals, a peak detector is used, with RBW = VBW = 3MHz. For AMPS, GSM, and NADC TDMA signals, a peak detector is used, with RBW = VBW = 1MHz. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For reading 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

### 4.2 Test Equipments

The following test equipments are used during tests

| Equipment         | Manufacturer | Model      | Cal. Due Date |
|-------------------|--------------|------------|---------------|
| Spectrum Analyzer | Agilent      | E4407B     | 2008-03-02    |
| Signal Generator  | HP           | E4432B     | 2008-03-02    |
| Attenuator        | JFW          | 50FH-010-5 | 2008-03-02    |

#### 4.3.1 Test Results (800MHz Uplink)

| Freq (MHz) | Measured Output power(dBm) | Rated Output power(dBm) |
|------------|----------------------------|-------------------------|
| 806.00     | 27.11                      | 27.00                   |
| 815.00     | 27.01                      | 27.00                   |
| 824.00     | 27.12                      | 27.00                   |



#### 4.3.2 Test Results (800MHz Downlink)

| Freq (MHz) | Measured Output power(dBm) | Rated Output power(dBm) |
|------------|----------------------------|-------------------------|
| 851.00     | 27.13                      | 27.00                   |
| 860.00     | 27.22                      | 27.00                   |
| 869.00     | 27.11                      | 27.00                   |

#### 4.3.3 Test Results (900MHz Uplink)

| Freq (MHz) | Measured Output power(dBm) | Rated Output power(dBm) |
|------------|----------------------------|-------------------------|
| 896.00     | 27.32                      | 27.00                   |
| 899.00     | 27.02                      | 27.00                   |
| 901.00     | 27.07                      | 27.00                   |

#### 4.3.4 Test Results (900MHz Downlink)

| Freq (MHz) | Measured Output power(dBm) | Rated Output power(dBm) |
|------------|----------------------------|-------------------------|
| 935.00     | 27.22                      | 27.00                   |
| 938.00     | 27.01                      | 27.00                   |
| 940.00     | 27.21                      | 27.00                   |



UL 9.35MHz Power table

| In Put | Out put |
|--------|---------|
| -45    | 16.38   |
| -40    | 21.90   |
| -35    | 26.51   |
| -30    | 27.21   |
| -25    | 27.22   |
| -22    | 27.12   |
| -21    | 27.15   |
| -20    | 27.20   |

DL 896MHz Power table

| In Put | Out put |
|--------|---------|
| -45    | 17.26   |
| -40    | 20.58   |
| -35    | 24.04   |
| -30    | 27.54   |
| -25    | 27.32   |
| -22    | 27.21   |
| -21    | 27.25   |
| -20    | 27.30   |



## 5. Spurious and Harmonic Emission at Antenna Terminal

### 6.1 Test Procedure

Spurious emissions were searched at low, medium and high ends of the bands for both uplink and downlink directions. Worst case plots have been included for the uplink and downlink.

### 5.2 Test Equipments

The following test equipments are used during tests

| Equipment         | Manufacturer | Model      | Cal. Due Date |
|-------------------|--------------|------------|---------------|
| Spectrum Analyzer | Agilent      | E4407B     | 2008-03-02    |
| Signal Generator  | HP           | E4432B     | 2008-03-02    |
| Attenuator        | JFW          | 50FH-010-5 | 2008-03-02    |

### 5.3 Test Results

(800MHz Uplink)

| Channel    | Frequency | Result | Limit  | Margin |
|------------|-----------|--------|--------|--------|
| First Ch.  | 806.00    | -24.10 | -20.00 | 4.10   |
| Middle Ch. | 815.00    | -25.80 | -20.00 | 5.80   |
| Last Ch.   | 824.00    | -26.05 | -20.00 | 6.05   |

(800MHz Downlink)

| Channel    | Frequency | Result | Limit  | Margin |
|------------|-----------|--------|--------|--------|
| First Ch.  | 851.00    | -26.19 | -20.00 | 6.19   |
| Middle Ch. | 860.00    | -25.95 | -20.00 | 5.95   |
| Last Ch.   | 869.00    | -26.13 | -20.00 | 6.13   |



(900MHz Uplink)

| Channel    | Frequency | Result | Limit  | Margin |
|------------|-----------|--------|--------|--------|
| First Ch.  | 896.00    | -25.68 | -20.00 | 5.68   |
| Middle Ch. | 899.00    | -25.73 | -20.00 | 5.73   |
| Last Ch.   | 901.00    | -26.35 | -20.00 | 6.35   |

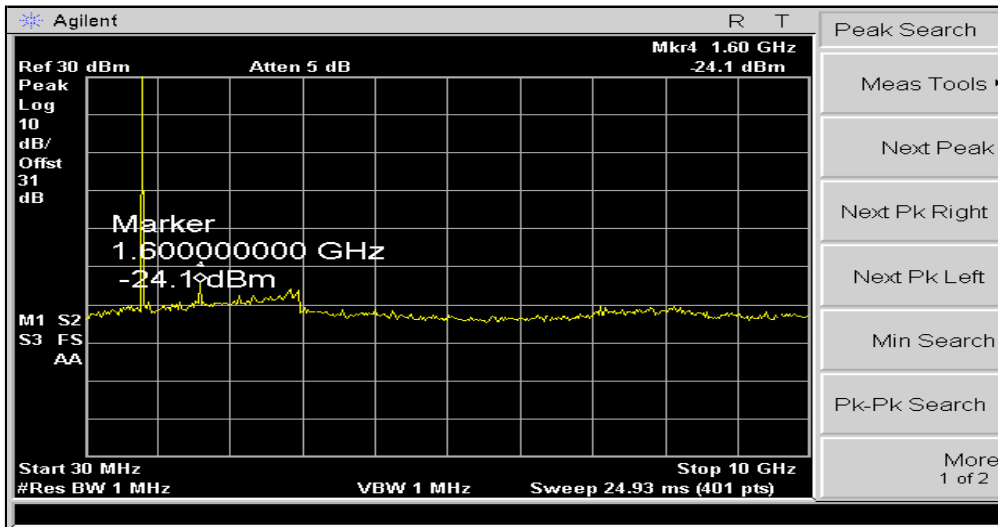
(900MHz Downlink)

| Channel    | Frequency | Result | Limit  | Margin |
|------------|-----------|--------|--------|--------|
| First Ch.  | 935.00    | -26.66 | -20.00 | 6.66   |
| Middle Ch. | 938.00    | -25.97 | -20.00 | 5.97   |
| Last Ch.   | 940.00    | -25.91 | -20.00 | 5.91   |

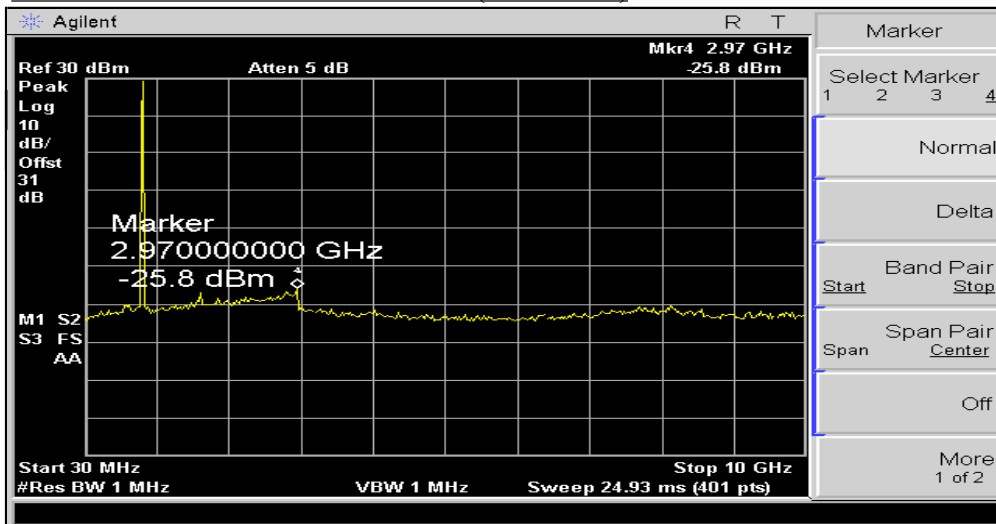


(800MHz Uplink)

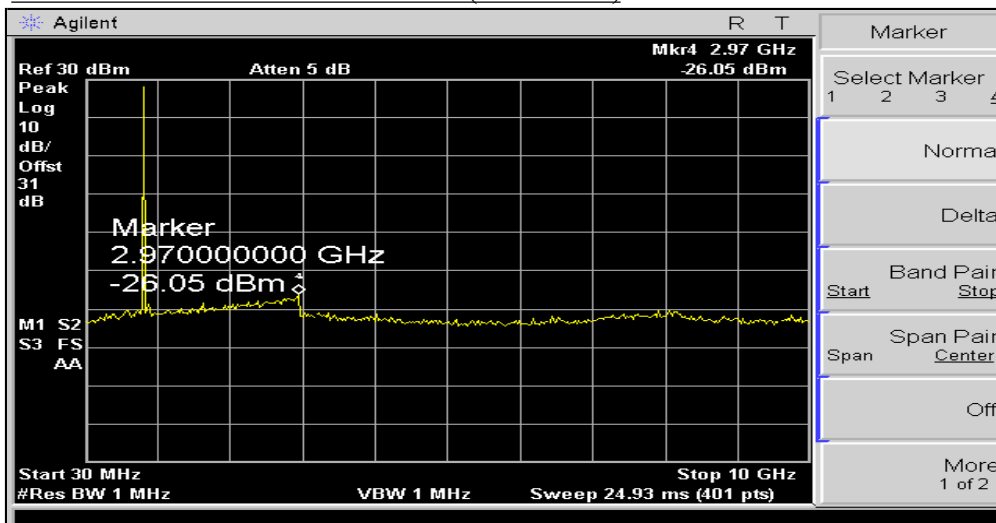
PLOTS OF EMISSION : Out of Band (First Ch.)



PLOTS OF EMISSION : Out of Band (Middle Ch.)



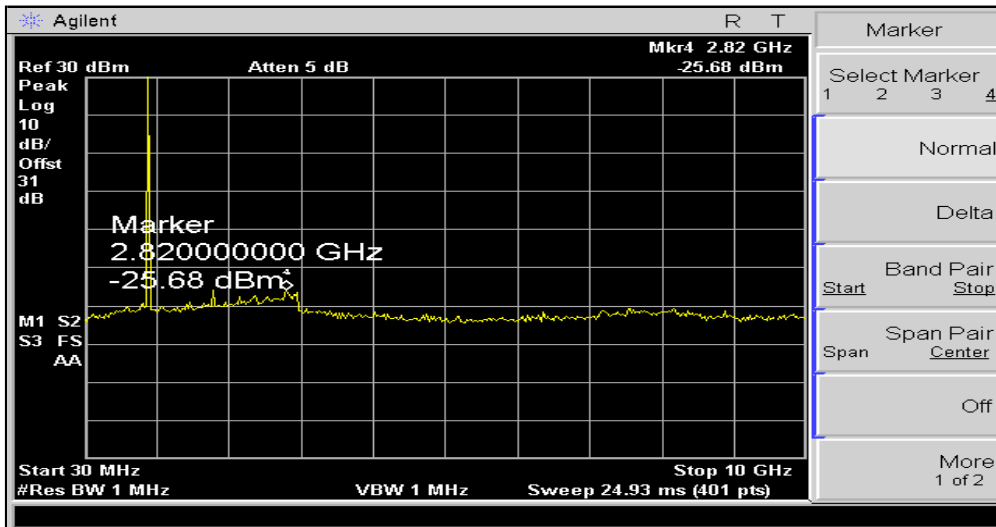
PLOTS OF EMISSION : Out of Band (Middle Ch.)



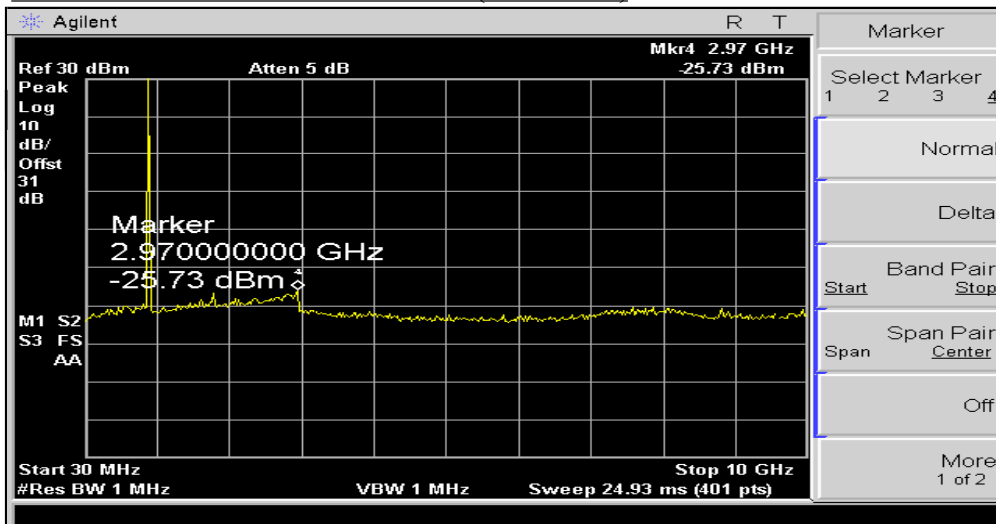


(900MHz Uplink)

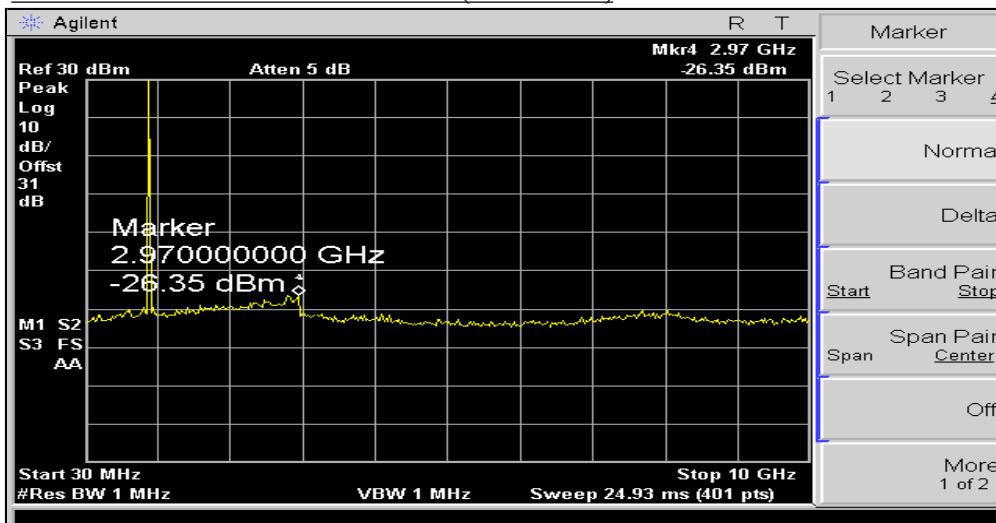
PLOTS OF EMISSION : Out of Band (First Ch.)



PLOTS OF EMISSION : Out of Band (Middle Ch.)



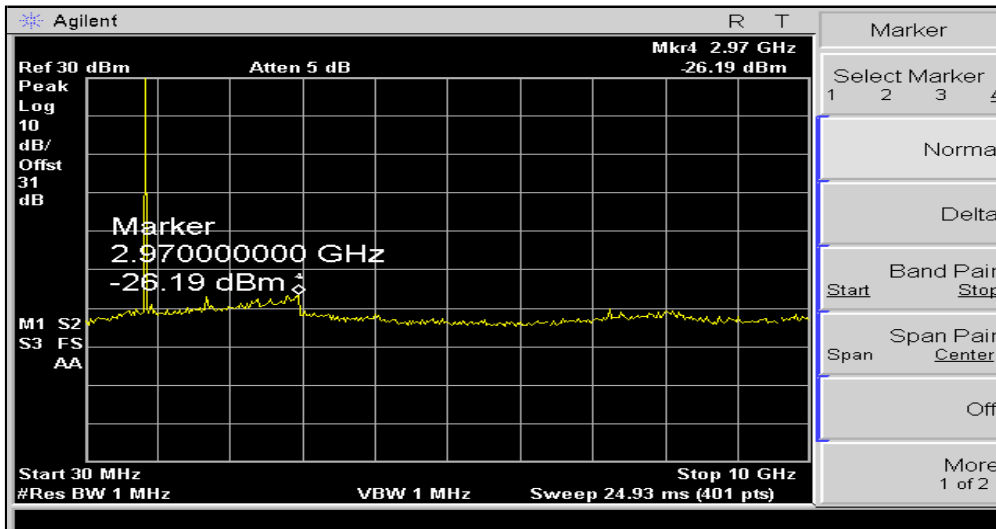
PLOTS OF EMISSION : Out of Band(Middle Ch.)



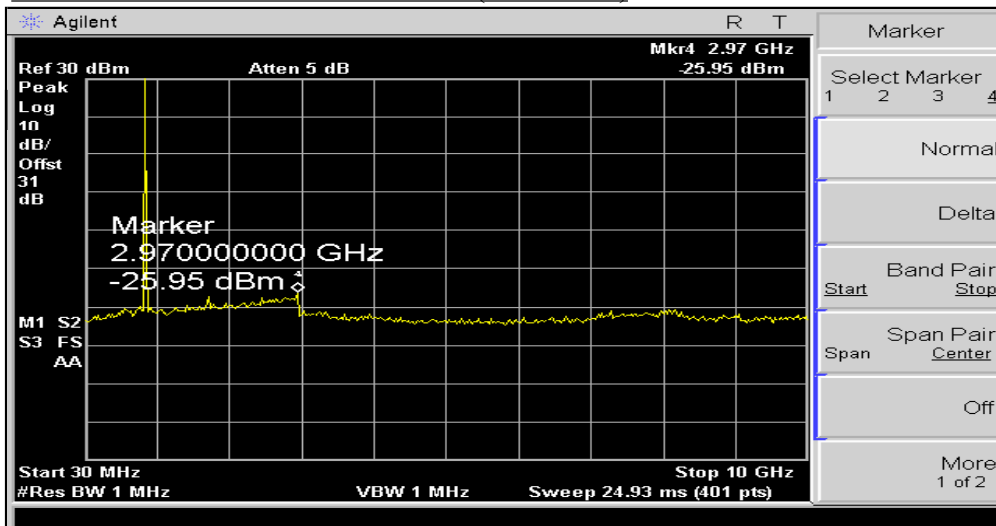


(800MHz Downlink)

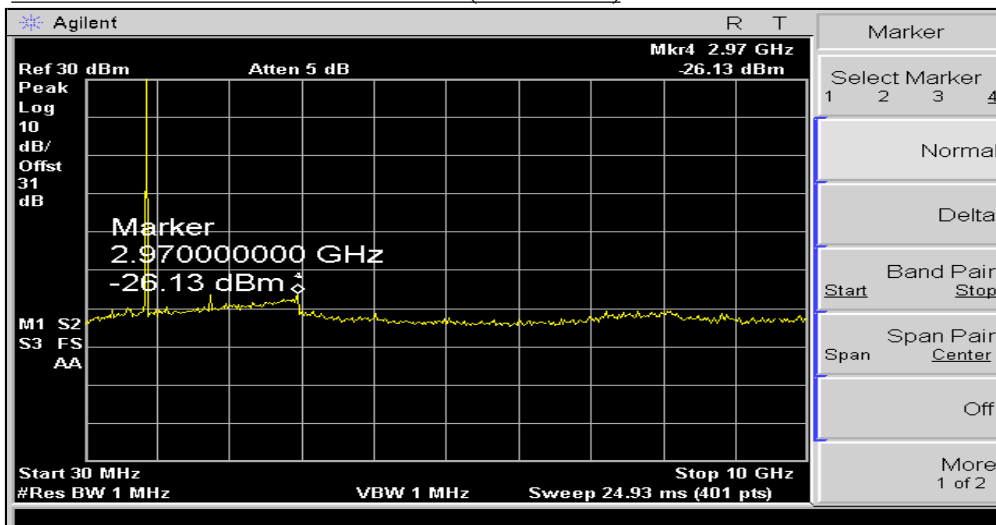
PLOTS OF EMISSION : Out of Band (First Ch.)



PLOTS OF EMISSION : Out of Band (Middle Ch.)



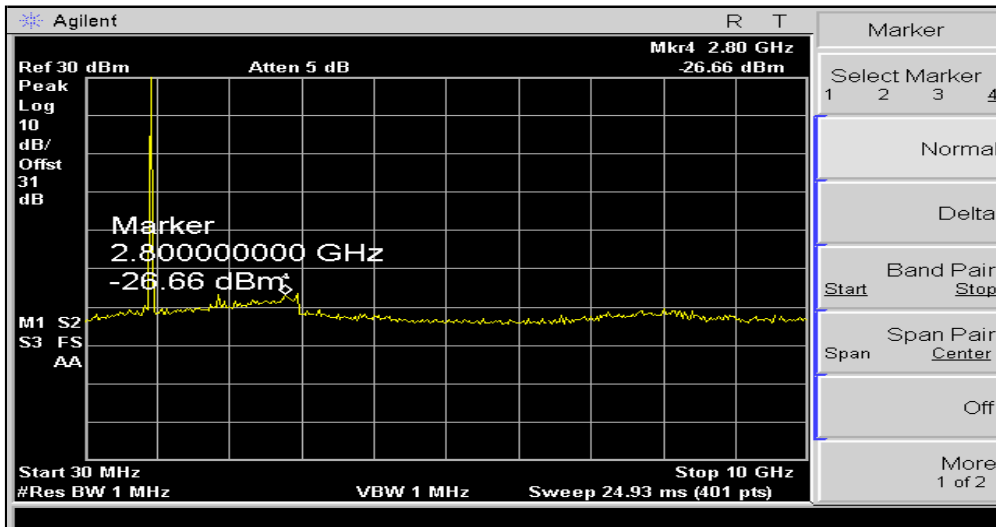
PLOTS OF EMISSION : Out of Band (Middle Ch.)



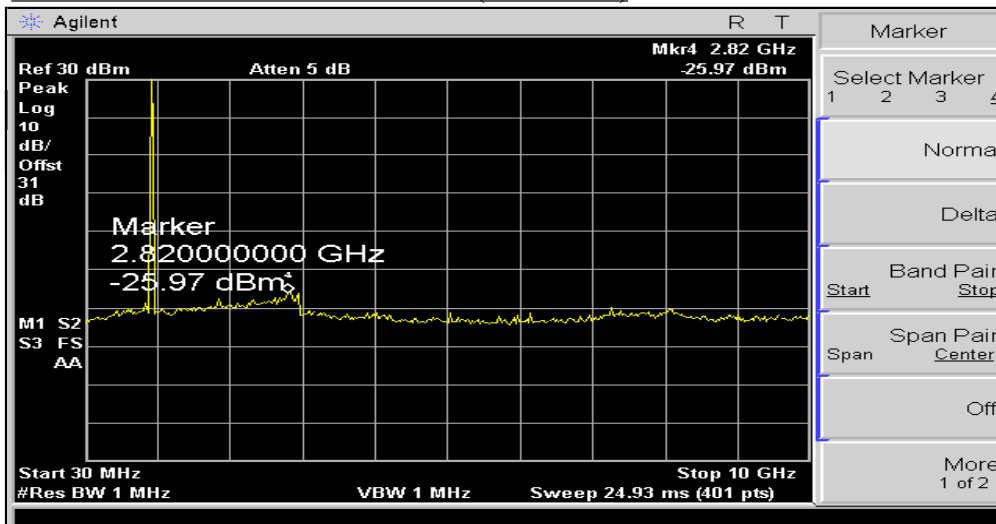


(900MHz Downlink)

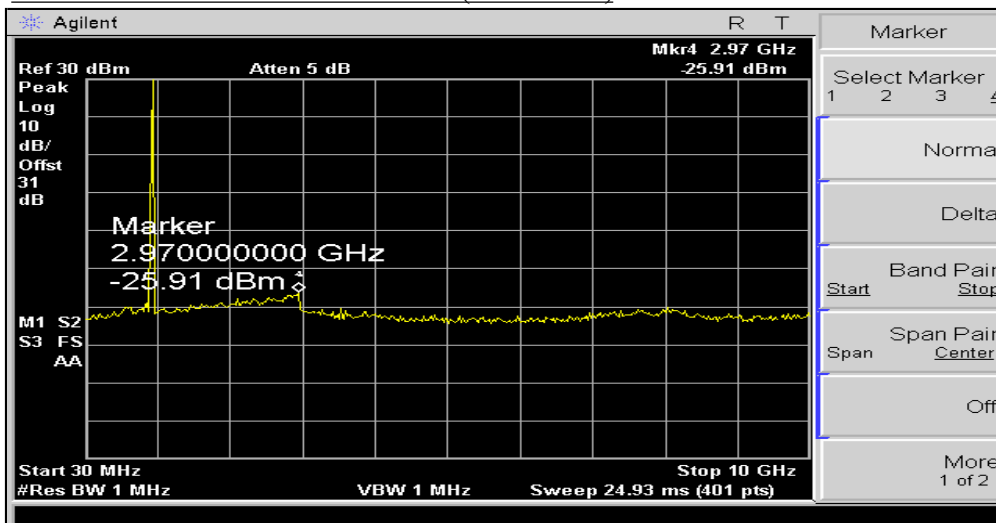
PLOTS OF EMISSION : Out of Band (First Ch.)



PLOTS OF EMISSION : Out of Band (Middle Ch.)



PLOTS OF EMISSION : Out of Band(Middle Ch.)





## 5. Field Strength of Spurious Radiation

### 5.1 Test Procedure

Radiation and harmonic emission are measured outdoors at our 3 meters test range. The equipment under test is placed on a wooden turntable 3 meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer (or receiver). A half wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

### 5.2 Test Equipments

The following test equipments are used during tests

| Equipment        | Manufacturer      | Model       | Cal. Due Date |
|------------------|-------------------|-------------|---------------|
| Receiver         | Rohde & Schwarz   | ESPI7       | 2008-08-27    |
| Signal Generator | HP                | 83620B      | 2008-09-11    |
| Pre Amplifier    | SONOMA INSTRUMENT | 310N        | 2008-03-06    |
| Horn Antenna     | SCHWARZBECK       | BBHA 9120 D | 2008-03-31    |

Note: The spurious emission wasn't detected from 3rd harmonics.



### 5.3 Test Results

#### Uplink(800MHz&900MHz)

| Frequency<br>(MHz) | Receiver<br>Reading(dBuV) | Correction Factor(dB) |        | ERP(dBm)   |        | Limit<br>(dBm) | Polarity |
|--------------------|---------------------------|-----------------------|--------|------------|--------|----------------|----------|
|                    |                           | AG(dBd)               | CL(dB) | SG Reading | Result |                |          |
| 1612(806MHz)       | 51.80                     | 9.51                  | -11.00 | -73.10     | -52.59 | -20.00         | V        |
| 1630(815MHz)       | 54.88                     | 9.65                  | -11.00 | -69.40     | -48.75 | -20.00         | V        |
| 1648(824MHz)       | 49.90                     | 9.78                  | -11.00 | -73.90     | -53.12 | -20.00         | V        |
| 1792(896MHz)       | 46.00                     | 10.33                 | -11.50 | -76.80     | -54.97 | -20.00         | V        |
| 1798(899MHz)       | 45.30                     | 10.34                 | -11.60 | -77.40     | -55.46 | -20.00         | V        |
| 1802(901MHz)       | 45.60                     | 10.35                 | -11.60 | -77.60     | -55.65 | -20.00         | V        |

#### Downlink(800MHz&900MHz)

| Frequency<br>(MHz) | Receiver<br>Reading(dBuV) | Correction Factor(dB) |        | ERP(dBm)   |        | Limit<br>(dBm) | Polarity |
|--------------------|---------------------------|-----------------------|--------|------------|--------|----------------|----------|
|                    |                           | AG(dBd)               | CL(dB) | SG Reading | Result |                |          |
| 1702(851MHz)       | 44.38                     | 10.13                 | -11.30 | -78.90     | -57.47 | -20.00         | V        |
| 1720(860MHz)       | 46.30                     | 10.17                 | -11.30 | -76.80     | -55.33 | -20.00         | V        |
| 1738(869MHz)       | 45.80                     | 10.22                 | -11.40 | -77.50     | -55.88 | -20.00         | V        |
| 1870(935MHz)       | 44.53                     | 10.42                 | -12.00 | -77.40     | -54.98 | -20.00         | V        |
| 1876(938MHz)       | 46.20                     | 10.42                 | -12.00 | -73.50     | -51.08 | -20.00         | V        |
| 1880(940MHz)       | 44.08                     | 10.43                 | -12.00 | -75.30     | -52.87 | -20.00         | V        |



## 6. Frequency stability

### 6.1 Test Procedure

a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following Table.

Minimum Frequency Stability  
parts per million (ppm)

| Frequency range<br>(MHz) | Fixed and base stations<br>2 watts output power | Mobile stations Over<br>power | 2 watts or less output |
|--------------------------|-------------------------------------------------|-------------------------------|------------------------|
| Below 25                 | 100                                             | 100                           | 200                    |
| 25-50                    | 20                                              | 20                            | 50                     |
| 72-76                    | 5                                               | ---                           | 50                     |
| 150-174                  | 50                                              | 5                             | 50                     |
| 216-220                  | 1.0                                             | ---                           | 1.0                    |
| 220-222                  | 0.1                                             | 1.5                           | 1.5                    |
| 421-512                  | 2.5                                             | 5                             | 5                      |
| 806-809                  | 1.0                                             | 1.5                           | 1.5                    |
| 809-824                  | 1.5                                             | 2.5                           | 2.5                    |
| 851-854                  | 1.0                                             | 1.5                           | 1.5                    |
| 854-869                  | 1.5                                             | 2.5                           | 2.5                    |
| 896-901                  | 0.1                                             | 1.5                           | 1.5                    |
| 902-928                  | 2.5                                             | 2.5                           | 2.5                    |

Fixed non-multilateration transmitters with an authorized bandwidth that is more than 40 kHz from the band edge, intermittently operated hand-held readers, and mobile transponders are not subject to frequency stability restrictions.

|            |     |     |     |
|------------|-----|-----|-----|
| 929-930    | 1.5 | --- | --- |
| 935-940    | 0.1 | 1.5 | 1.5 |
| 1427-1435  | 300 | 300 | 300 |
| Above 2450 | --- | --- | --- |

### 6.2 Test Equipments

The following test equipments are used during tests

| Equipment         | Manufacturer      | Model      | Cal. Due Date |
|-------------------|-------------------|------------|---------------|
| Spectrum Analyzer | Agilent           | E4407B     | 2008-03-02    |
| Signal Generator  | HP                | E4432B     | 2008-03-02    |
| Attenuator        | JFW               | 50FH-010-5 | 2008-03-02    |
| Slidacs           | Digitek Power     | -          | -             |
| Tem/Hum Chamber   | MYOUNG TECHNOLOGY | 04-TH24    | 2008-03-02    |



### 6.3 Test Results

#### **800MHz Uplink**

|                       |             |     |
|-----------------------|-------------|-----|
| Operating Frequency : | 815,000,000 |     |
| Reference Voltage :   | 110.00      | VAC |
| Deviation Limit :     | 0.00025     |     |

| Voltage<br>(%) | Power<br>(VAC) | Temperature<br>(°C) | Frequency<br>(Hz) | Deviation |
|----------------|----------------|---------------------|-------------------|-----------|
| 100            | 110.0          | +20 °C (Ref)        | 815,000,002       | 0.000000  |
| 100            |                | -30                 | 814,999,980       | 0.000003  |
| 100            |                | -20                 | 814,999,982       | 0.000002  |
| 100            |                | -10                 | 814,999,981       | 0.000003  |
| 100            |                | 0                   | 814,999,982       | 0.000002  |
| 100            |                | 10                  | 814,999,978       | 0.000003  |
| 100            |                | 20                  | 815,000,002       | 0.000000  |
| 100            |                | 25                  | 814,999,984       | 0.000002  |
| 100            |                | 30                  | 814,999,986       | 0.000002  |
| 100            |                | 40                  | 814,999,987       | 0.000002  |
| 100            |                | 50                  | 814,999,982       | 0.000002  |
| 100            |                | 60                  | 814,999,978       | 0.000003  |
| 85             | 93.5           | 20                  | 814,999,976       | 0.000003  |
| 115            | 126.5          | 20                  | 814,999,983       | 0.000002  |
| EndPoint       | 85.0           | 20                  | 814,999,979       | 0.000003  |



**800MHz Downlink**

|                       |             |     |
|-----------------------|-------------|-----|
| Operating Frequency : | 860,000,000 |     |
| Reference Voltage :   | 110.00      | VAC |
| Deviation Limit :     | 0.00025     |     |

| Voltage (%) | Power (VAC) | Temperature (°C) | Frequency (Hz) | Deviation |
|-------------|-------------|------------------|----------------|-----------|
| 100         | 110.0       | +20 °C (Ref)     | 860,000,002    | 0.000000  |
| 100         |             | -30              | 859,999,984    | 0.000002  |
| 100         |             | -20              | 859,999,982    | 0.000002  |
| 100         |             | -10              | 859,999,982    | 0.000002  |
| 100         |             | 0                | 859,999,978    | 0.000003  |
| 100         |             | 10               | 859,999,978    | 0.000003  |
| 100         |             | 20               | 860,000,002    | 0.000000  |
| 100         |             | 25               | 859,999,982    | 0.000002  |
| 100         |             | 30               | 859,999,981    | 0.000002  |
| 100         |             | 40               | 859,999,982    | 0.000002  |
| 100         |             | 50               | 859,999,979    | 0.000003  |
| 100         |             | 60               | 859,999,976    | 0.000003  |
| 85          | 93.5        | 20               | 859,999,978    | 0.000003  |
| 115         | 126.5       | 20               | 859,999,981    | 0.000002  |
| EndPoint    | 85.0        | 20               | 859,999,977    | 0.000003  |



### 6.3 Test Results

#### 900MHz Uplink

|                       |             |     |
|-----------------------|-------------|-----|
| Operating Frequency : | 899,000,000 |     |
| Reference Voltage :   | 110.00      | VAC |
| Deviation Limit :     | 0.00015     |     |

| Voltage (%) | Power (VAC) | Temperature (°C) | Frequency (Hz) | Deviation |
|-------------|-------------|------------------|----------------|-----------|
| 100         | 110.0       | +20 °C (Ref)     | 899,000,002    | 0.000000  |
| 100         |             | -30              | 898,999,973    | 0.000003  |
| 100         |             | -20              | 898,999,979    | 0.000003  |
| 100         |             | -10              | 898,999,977    | 0.000003  |
| 100         |             | 0                | 898,999,981    | 0.000002  |
| 100         |             | 10               | 898,999,983    | 0.000002  |
| 100         |             | 20               | 899,000,002    | 0.000000  |
| 100         |             | 25               | 898,999,979    | 0.000003  |
| 100         |             | 30               | 898,999,981    | 0.000002  |
| 100         |             | 40               | 898,999,981    | 0.000002  |
| 100         |             | 50               | 898,999,975    | 0.000003  |
| 100         |             | 60               | 898,999,979    | 0.000003  |
| 85          | 93.5        | 20               | 898,999,983    | 0.000002  |
| 115         | 126.5       | 20               | 898,999,981    | 0.000002  |
| EndPoint    | 85.0        | 20               | 898,999,976    | 0.000003  |



**900MHz Downlink**

|                       |             |     |
|-----------------------|-------------|-----|
| Operating Frequency : | 938,000,000 |     |
| Reference Voltage :   | 110.00      | VAC |
| Deviation Limit :     | 0.00015     |     |

| Voltage<br>(%) | Power<br>(VAC) | Temperature<br>(°C) | Frequency<br>(Hz) | Deviation |
|----------------|----------------|---------------------|-------------------|-----------|
| 100            | 110.0          | +20 °C (Ref)        | 938,000,003       | 0.000000  |
| 100            |                | -30                 | 937,999,975       | 0.000003  |
| 100            |                | -20                 | 937,999,981       | 0.000002  |
| 100            |                | -10                 | 937,999,981       | 0.000002  |
| 100            |                | 0                   | 937,999,979       | 0.000003  |
| 100            |                | 10                  | 937,999,976       | 0.000003  |
| 100            |                | 20                  | 938,000,003       | 0.000000  |
| 100            |                | 25                  | 937,999,971       | 0.000003  |
| 100            |                | 30                  | 937,999,974       | 0.000003  |
| 100            |                | 40                  | 937,999,977       | 0.000003  |
| 100            |                | 50                  | 937,999,981       | 0.000002  |
| 100            |                | 60                  | 937,999,982       | 0.000002  |
| 85             | 93.5           | 20                  | 937,999,978       | 0.000003  |
| 115            | 126.5          | 20                  | 937,999,982       | 0.000002  |
| EndPoint       | 85.0           | 20                  | 937,999,976       | 0.000003  |



## 7. Emission mask Test

### 7.1 Test Procedure

Emission mask measurement was made using a direct connection between RF Output of the EUT and spectrum analyzer.

### 7.2 Test Equipments

The following test equipments are used during tests

| Equipment         | Manufacturer | Model      | Cal. Due Date |
|-------------------|--------------|------------|---------------|
| Spectrum Analyzer | Agilent      | E4407B     | 2008-03-02    |
| Signal Generator  | HP           | E4432B     | 2008-03-02    |
| Attenuator        | JFW          | 50FH-010-5 | 2008-03-02    |

### 7.3 Test Results

(DL Llink)

| Carrier Band | Frequency | Emission mask | Result |  |
|--------------|-----------|---------------|--------|--|
| iDEN800 &900 | 860.00    | §90.210       | Pass   |  |
|              | 859.00    | §90.210       | Pass   |  |
|              | 866.00    | §90.210       | Pass   |  |
|              | 938.00    | §90.210       | Pass   |  |

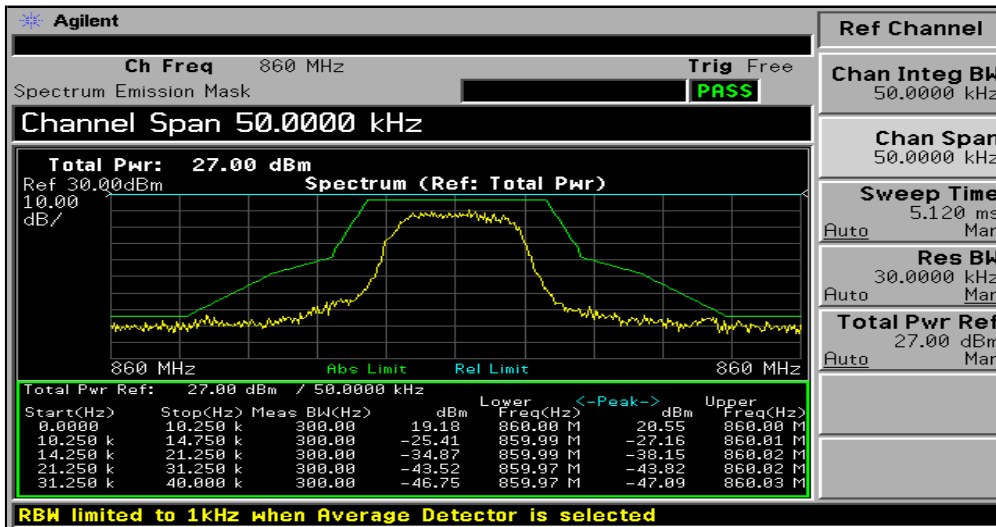


**UL Link**

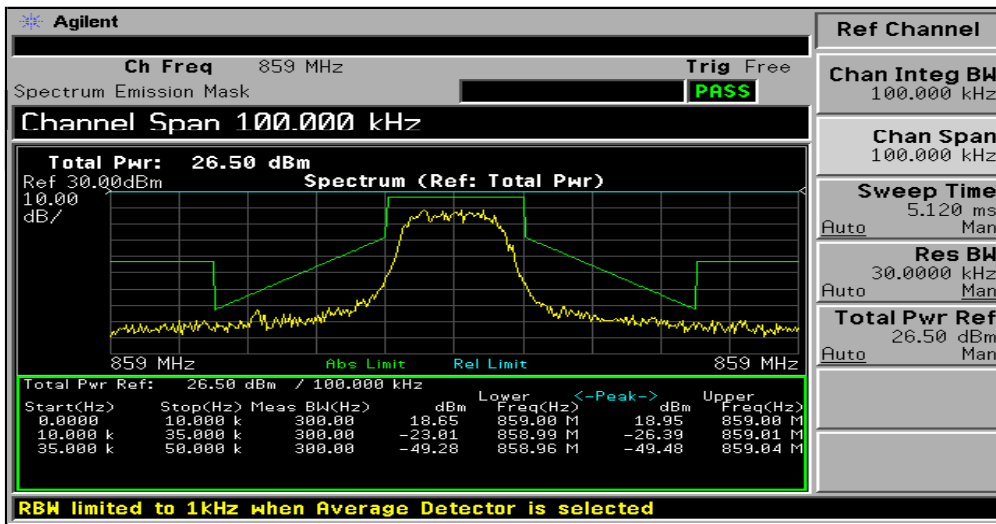
| Carrier Band | Frequency | Emission mask | Result |  |
|--------------|-----------|---------------|--------|--|
| iDEN800 &900 | 815.00    | §90.210       | Pass   |  |
|              | 816.00    | §90.210       | Pass   |  |
|              | 821.00    | §90.210       | Pass   |  |
|              | 899.00    | §90.210       | Pass   |  |



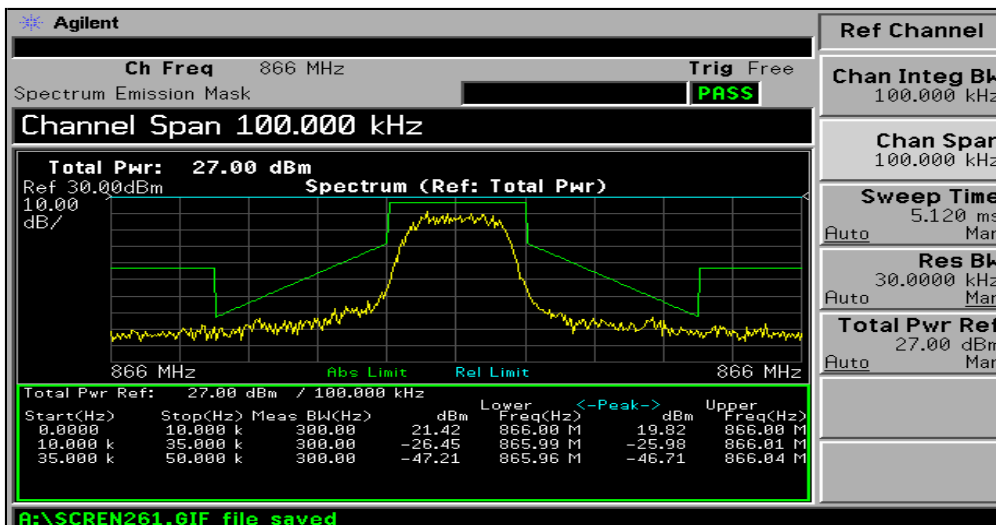
860.00



859.00

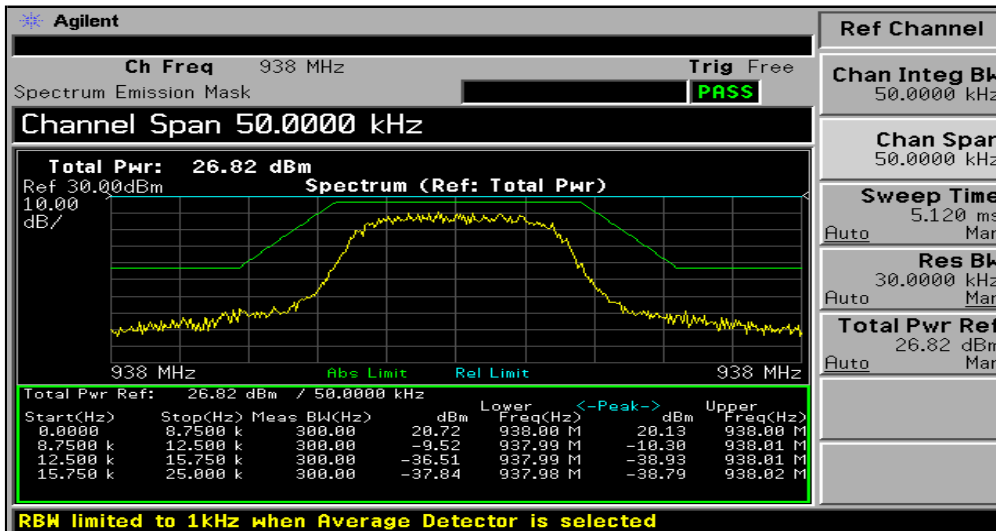


866.00

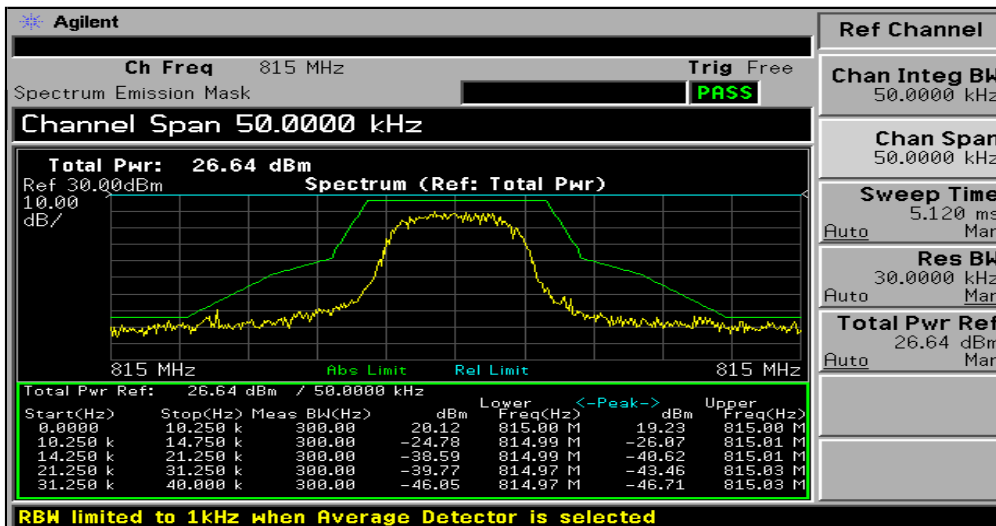




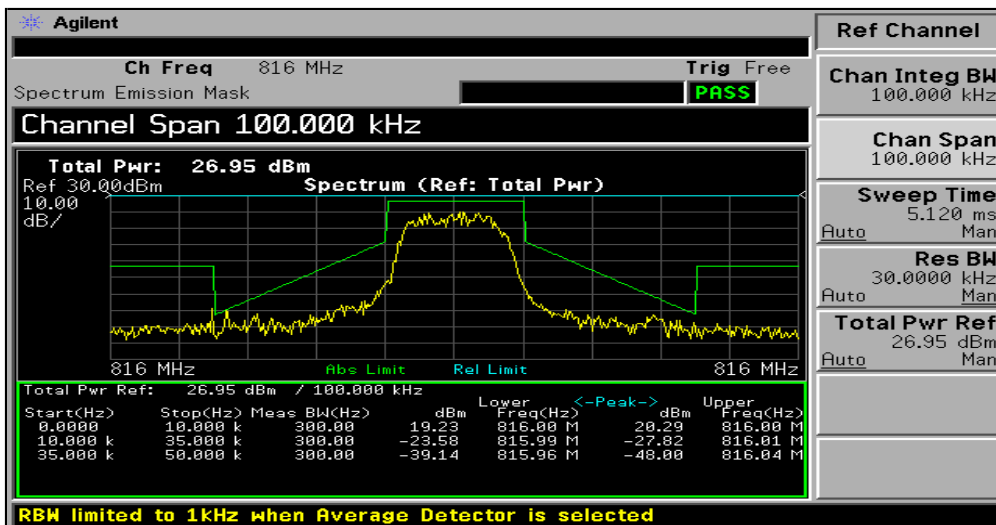
938.00



815.00

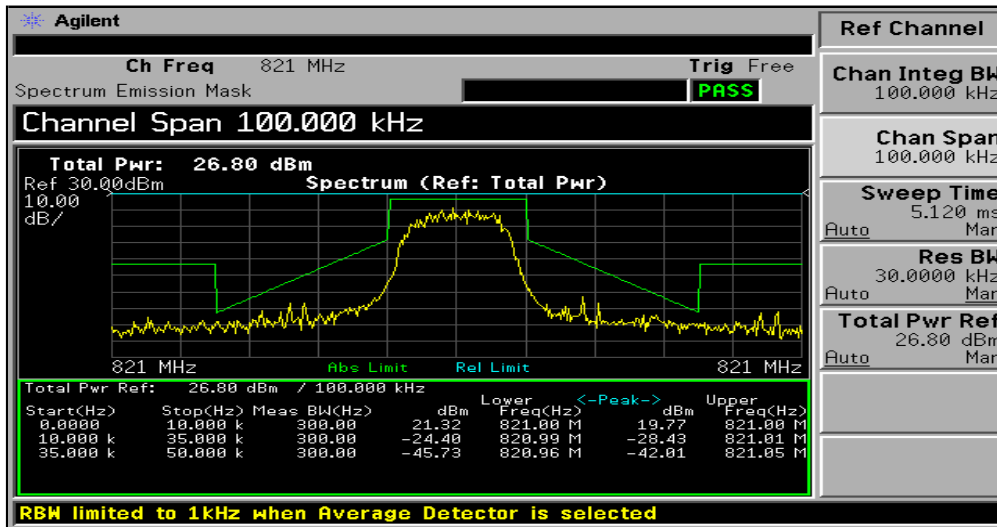


816.00

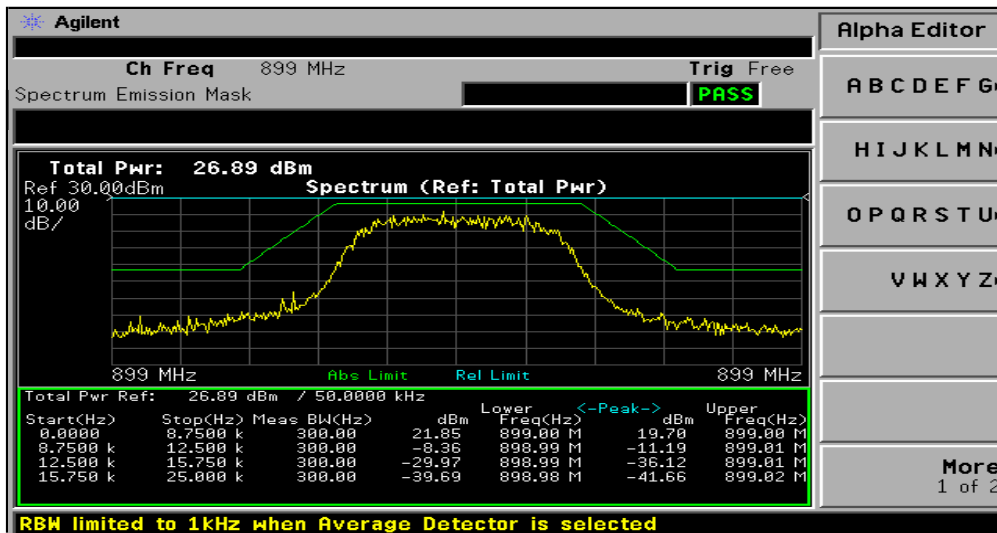




821.00

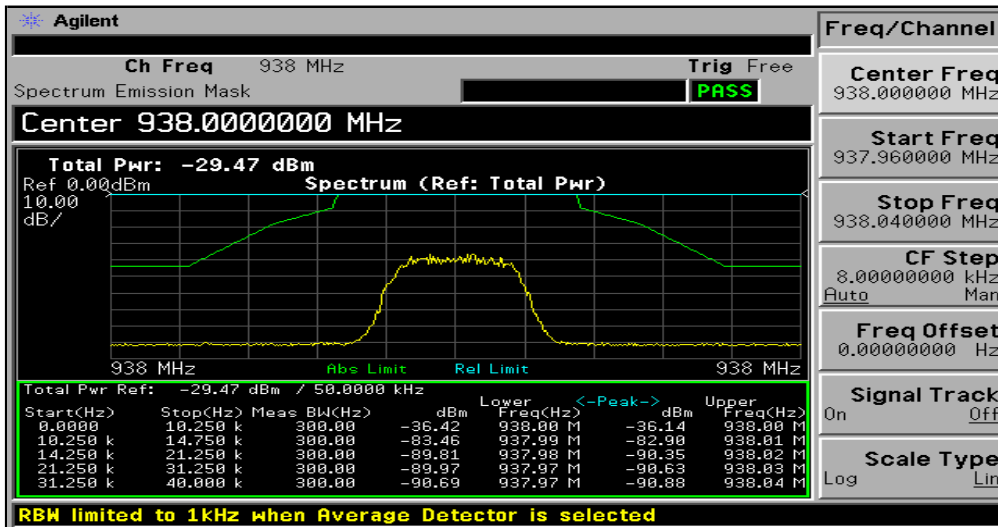


899.00





## Downlink Input



## Uplink Input

