

**5 . 7 RADIATED EMISSION TEST RESULTS**

The frequency spectrum from 30 MHz to 10 GHz was investigated.  
 All readings from 30 MHz to 1 GHz are quasi-peak values  
 with a resolution bandwidth of 120 KHz . All readings are above  
1GHz , peak values with a resolution bandwidth of 1 MHz.  
 Measurements were made at 3 meters.

- . Temperature : 23 °C
- . Humidity : 53 %RH
- . Test result :

| FREQ.<br>(MHz) | FACTOR<br>(dB) | ANT.<br>FACTOR<br>(dB/m) | READING<br>(dBm V) |      | EMISSION<br>(dBm V/m) |      | LIMITS<br>(dBm V/m) | AZ (°) | EL(M) |
|----------------|----------------|--------------------------|--------------------|------|-----------------------|------|---------------------|--------|-------|
|                |                |                          | HORIZ              | VERT | HORIZ                 | VERT |                     |        |       |
| 62.2118        | 1.2            | 8.6                      | *                  | 23.5 | *                     | 33.3 | 40.0                | 157.0  | 1.5   |
| 229.2331       | 2.2            | 13.9                     | 25.8               | 24.5 | 41.9                  | 40.6 | 46.0                | 25.0   | 1.3   |
| 455.0039       | 3.1            | 16.9                     | 22.3               | 22.1 | 42.3                  | 42.1 | 46.0                | 163.0  | 1.6   |
| 704.8815       | 4.2            | 20.7                     | *                  | 16.8 | *                     | 41.7 | 46.0                | 69.0   | 1.5   |
|                |                |                          |                    |      |                       |      |                     |        |       |
| 904.9400       | 4.7            | 22.3                     | 37.6               | 38.1 | 64.6                  | 65.1 | ---                 | 20.0   | 1.5   |
|                |                |                          |                    |      |                       |      |                     |        |       |
| 913.5249       | 4.7            | 22.6                     | 14.3               | 14.2 | 41.6                  | 41.5 | 46.0                | 335.0  | 1.8   |
| 1809.8800      | 4.0            | 26.3                     | 16.9               | 17.5 | 47.2                  | 47.8 | 54.0                | 335.0  | 1.4   |
| 2714.8200      | 5.3            | 29.7                     | 13.4               | 13.9 | 48.4                  | 48.8 | 54.0                | 157.0  | 1.5   |
| 3619.7600      | 6.1            | 32.4                     | 10.7               | 9.9  | 49.2                  | 48.4 | 54.0                | 155.0  | 1.6   |
| 4524.7000      | 6.9            | 33.5                     | *                  | *    | *                     | *    | 54.0                | 125.0  | 1.6   |
| 5429.6400      | 7.8            | 34.1                     | *                  | *    | *                     | *    | 54.0                | 12.0   | 1.6   |
| 6334.5800      | 8.5            | 34.7                     | *                  | *    | *                     | *    | 54.0                | 228.0  | 1.5   |

- REMARKS** :
- \*= Measurement does not apply for this frequency.
  - Uncertainty in radiated emission measured is <+/-4dB
  - Any departure from specification : N/A
  - Factor will include cable loss and correction factor.
  - Sample calculation  

$$\text{Emission(dB}\mu\text{V/m)} = \text{Factor (dB)} + \text{Ant. Factor (dB/m)} + \text{reading (dB}\mu\text{V)}$$
  - AZ(°) : Turn table azimuth
  - EL(M) : Antenna height (Meter)
  - Mode 7

SIGNED BY TESTING ENGINEER : \_\_\_\_\_

## 6. BANDWIDTH

### 6 . 1 LIMIT

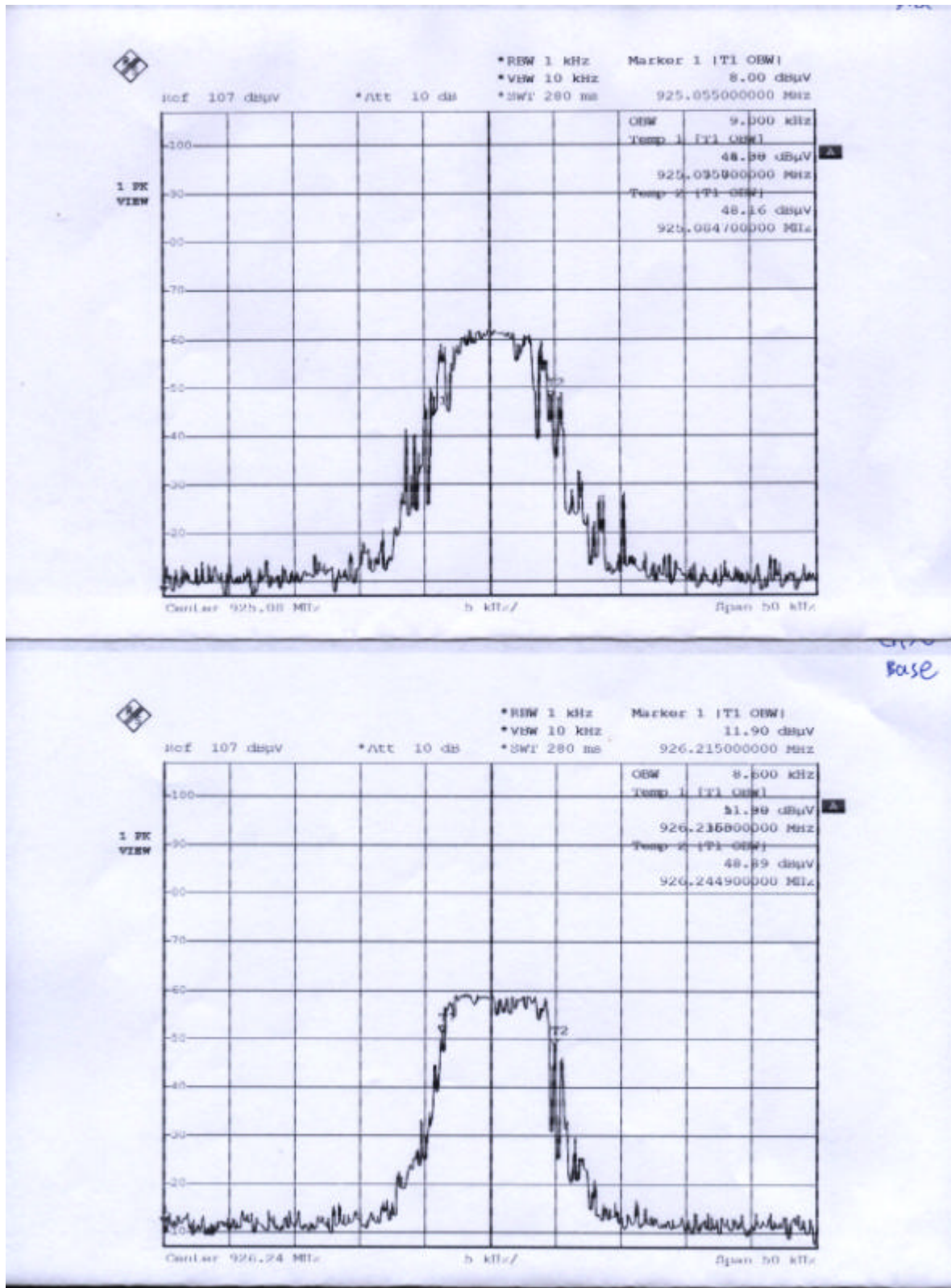
The emission shall be no wider than 0.5% of the center frequency.  
Bandwidth is de-termined at the points 20dB down from the modulated carrier.

### 6 . 2 TEST RESULTS

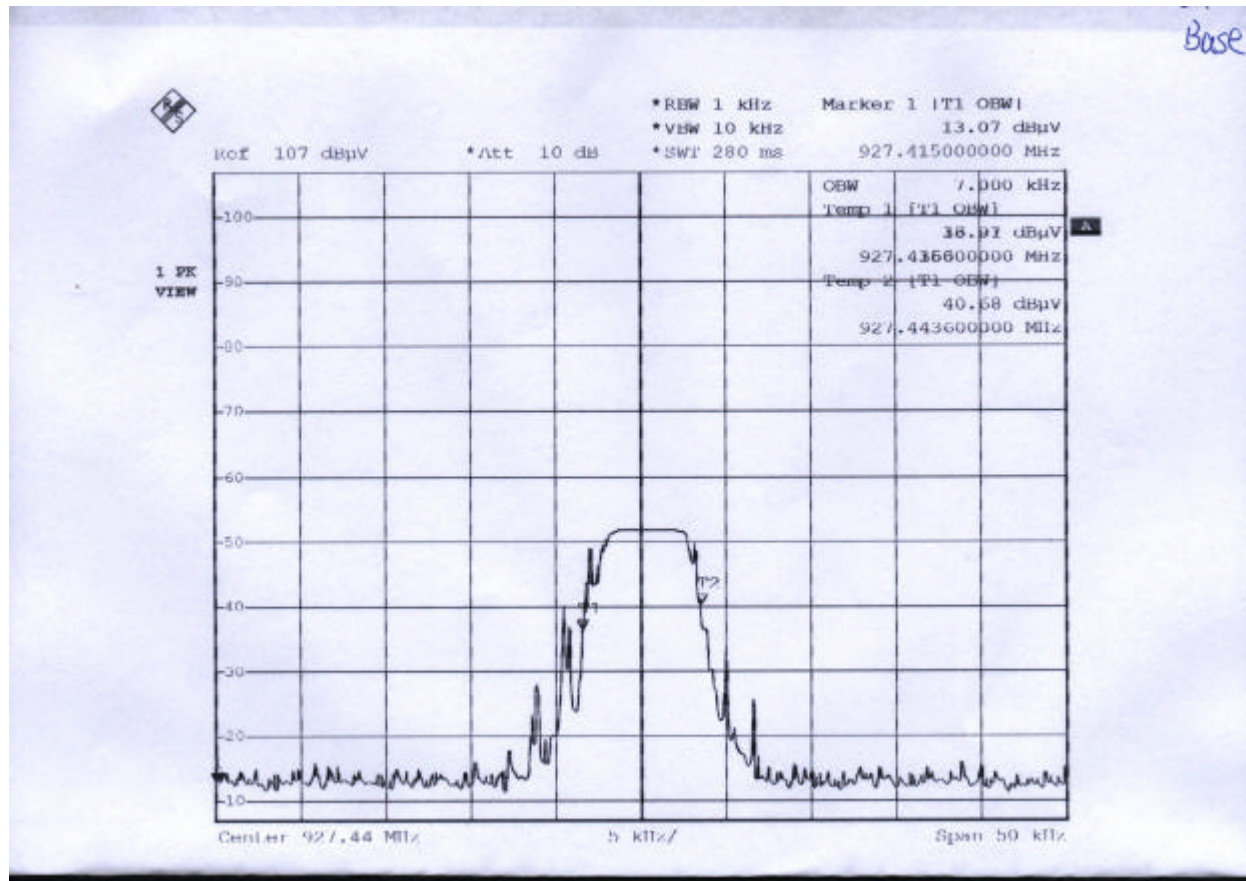
| Mode   |         | Channel | Operation frequency | 20dB bandwidth |
|--------|---------|---------|---------------------|----------------|
| Mode 2 | Base    | 1       | 925.08MHz           | 9.0KHz         |
| Mode 3 |         | 30      | 926.24MHz           | 8.6KHz         |
| Mode 4 |         | 60      | 927.44MHz           | 7.0KHz         |
| Mode 5 | Handset | 1       | 902.80MHz           | 8.0KHz         |
| Mode 6 |         | 30      | 903.74MHz           | 8.6KHz         |
| Mode 7 |         | 60      | 904.94MHz           | 7.2KHz         |

Please see attached plotter.

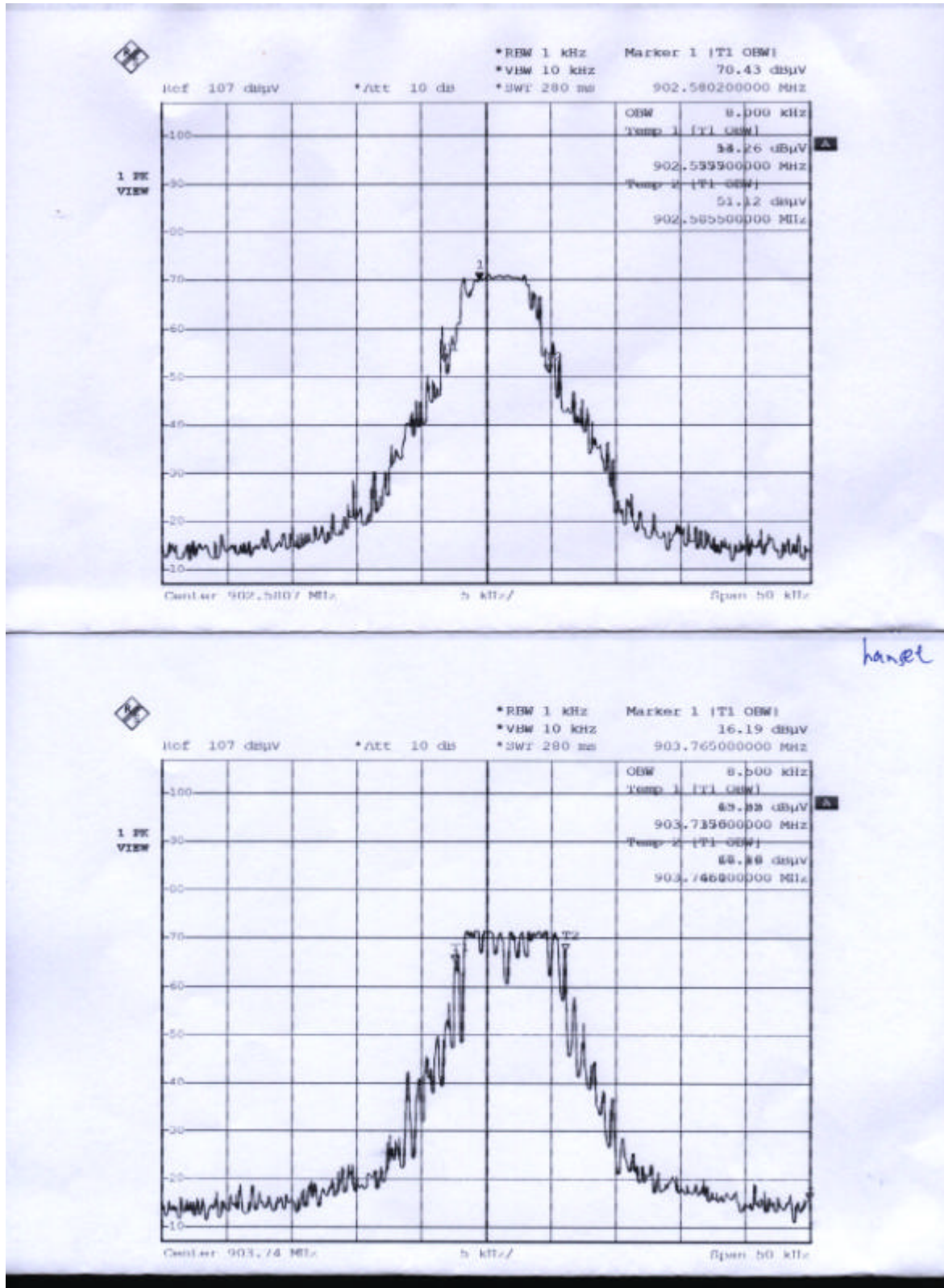
\*Base : channel 1, 30



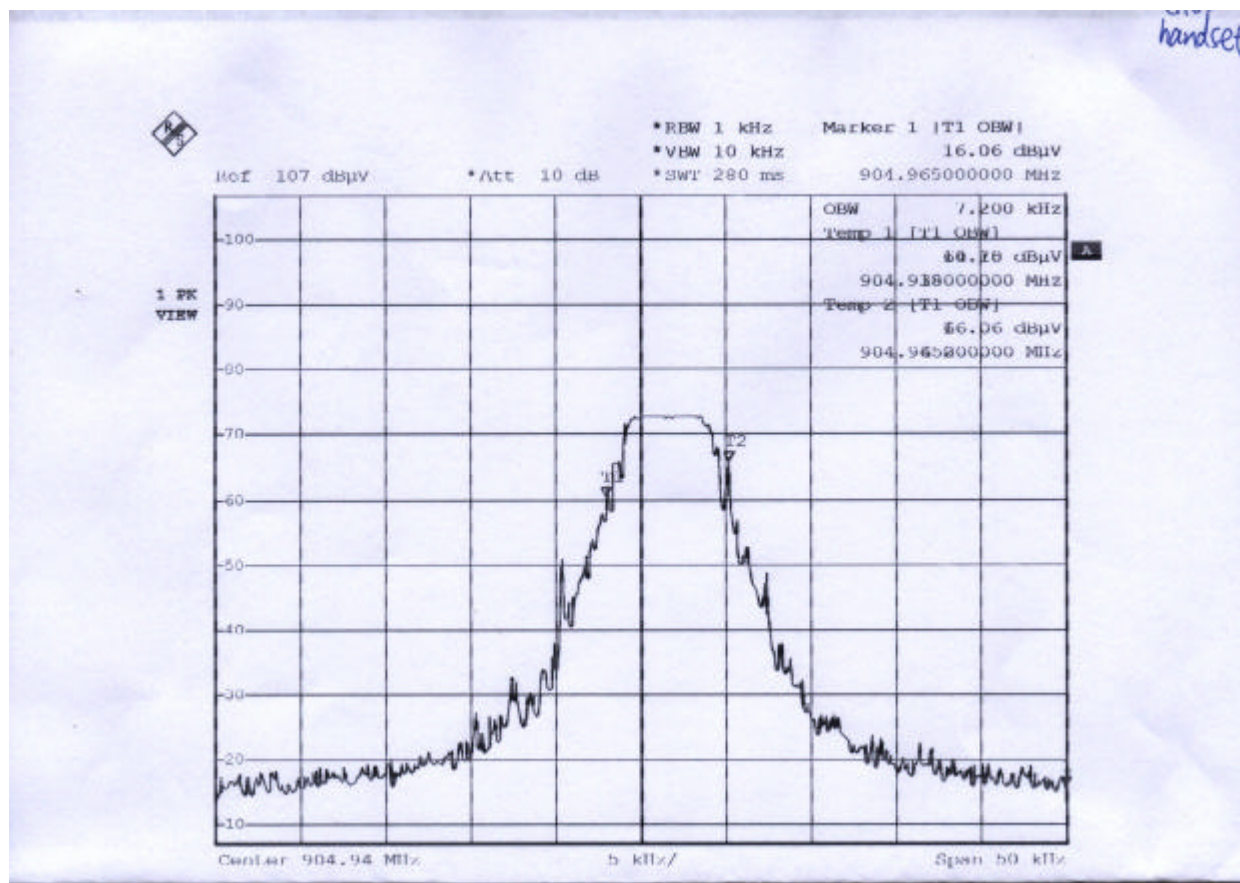
\*Base : channel 60



\*Handset : channel 1, 30

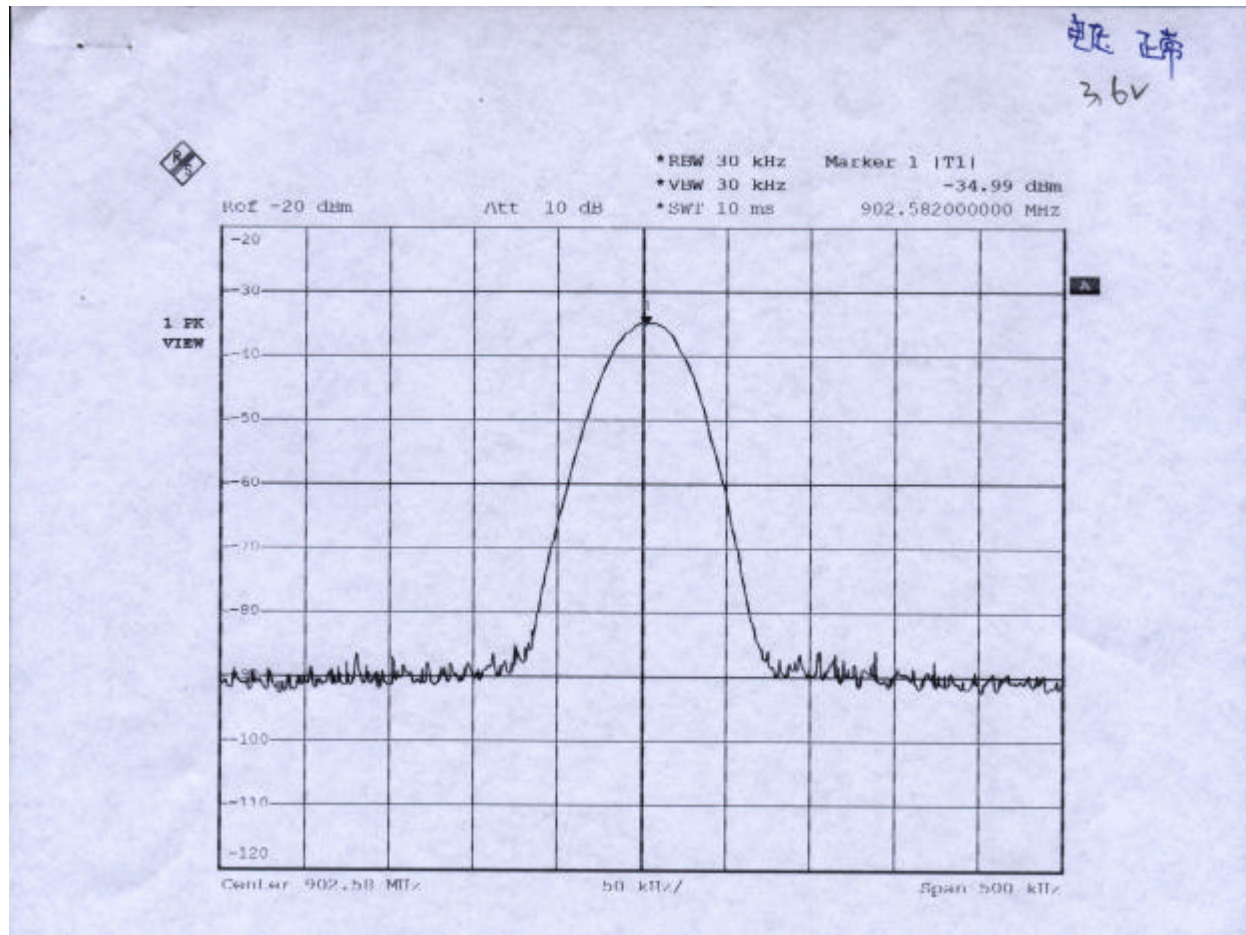


\*Handset : channel 60



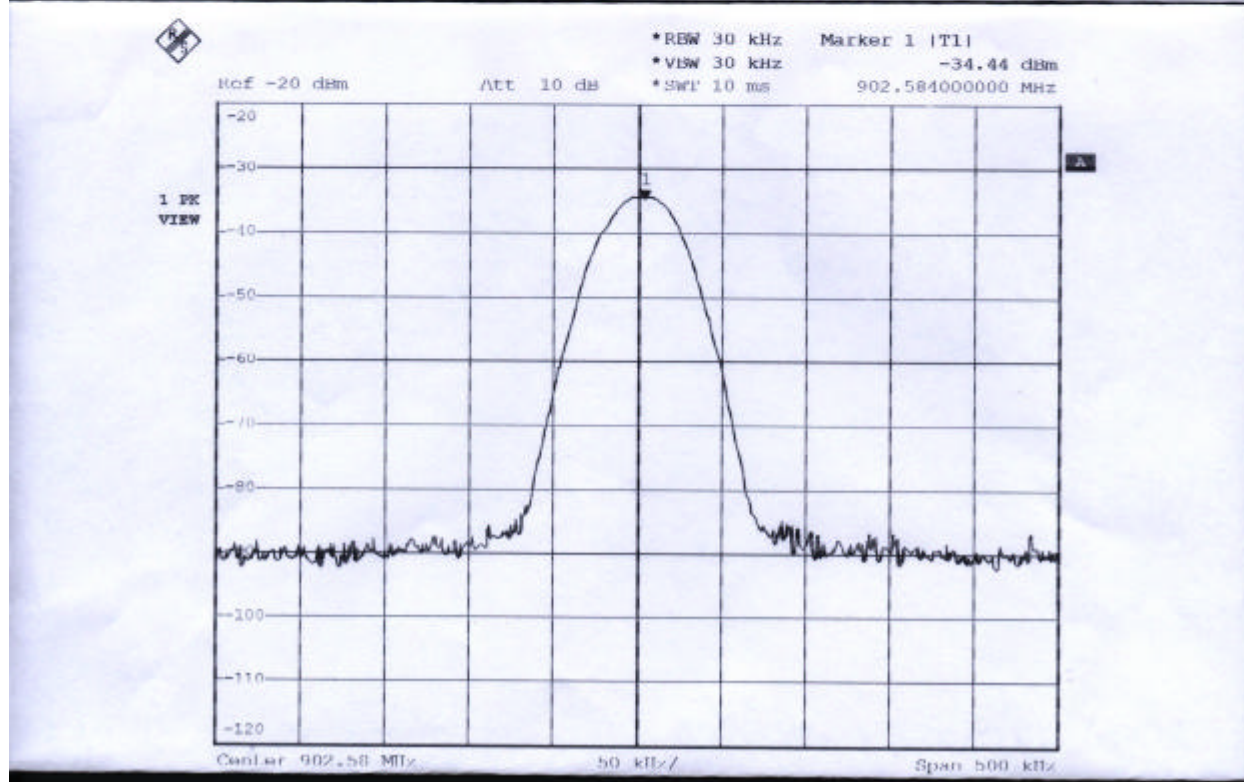
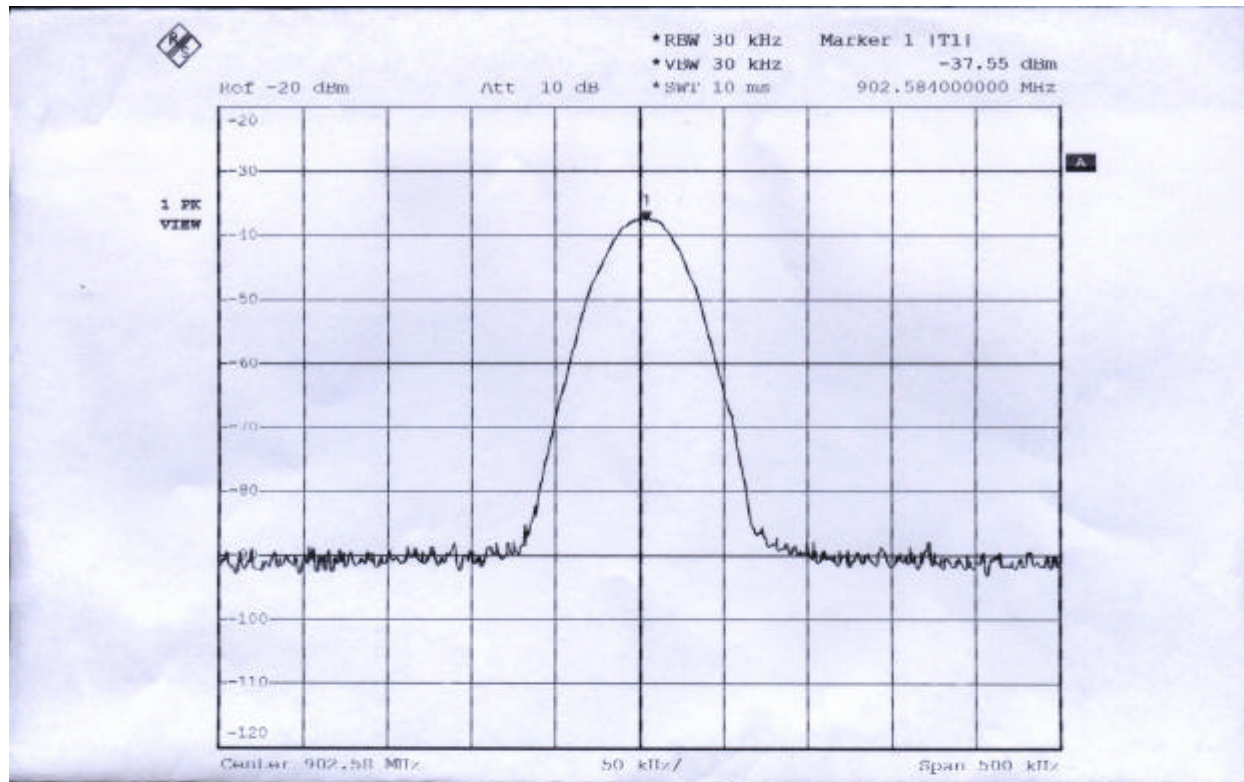
**7. CHANGE THE VOLTAGE FROM -15% TO +15% TO CHECK THE FREQUENCY VARIATION**

A. When voltage is 3.6V



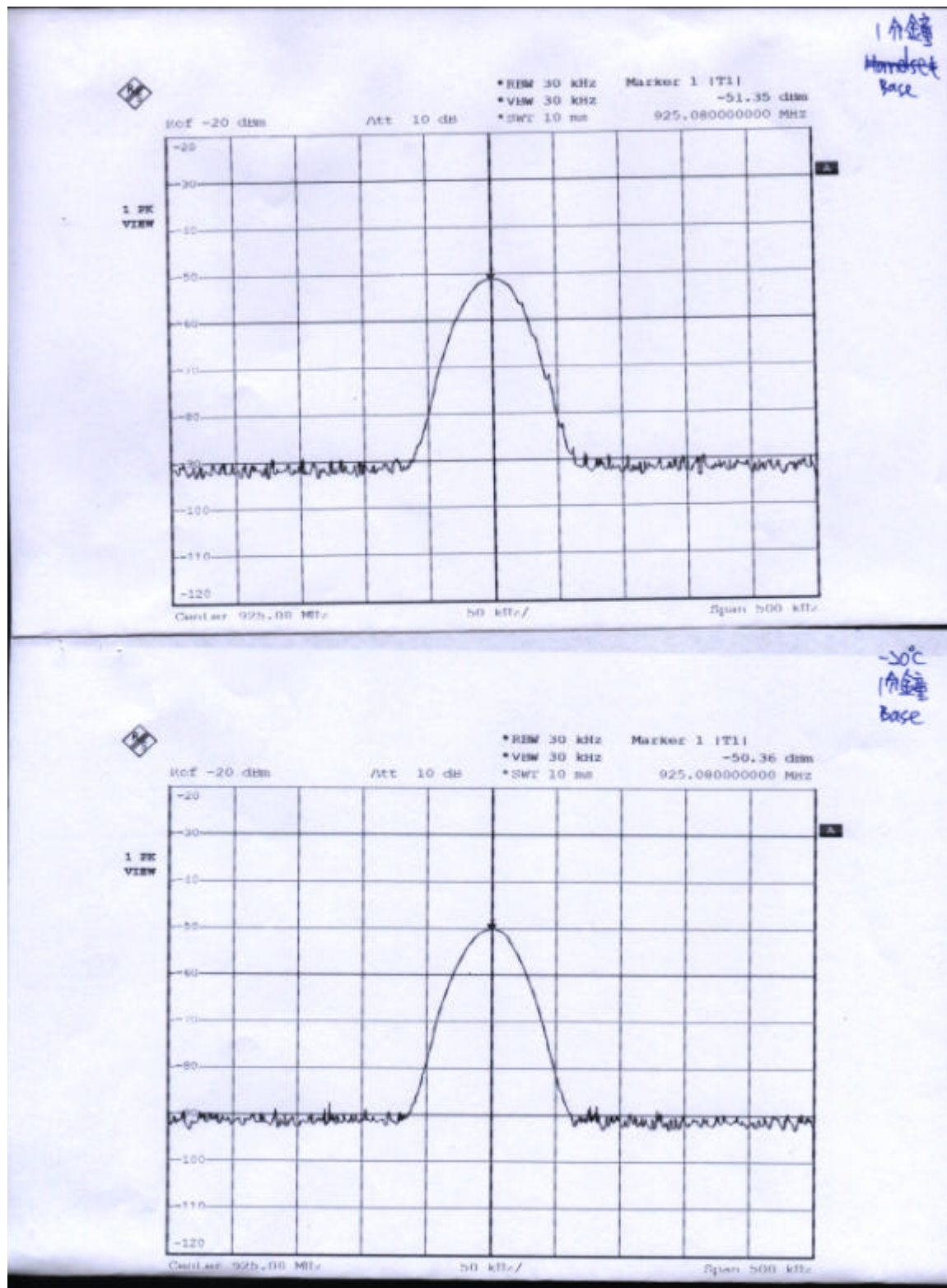
B. When voltage is 4.14V (change +15%)

C. When voltage is 3.06V (change -15%)



## 8. THE TEMPERATURE CHANGE TEST

\* Temperature is -30°C, -20°C (Base)



\* Temperature is -10°C, 0°C (Base)

