

4.5. Modulation Characteristics

TEST APPLICABLE

According to CFR47 section 2.1047(a), for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

TEST PROCEDURE

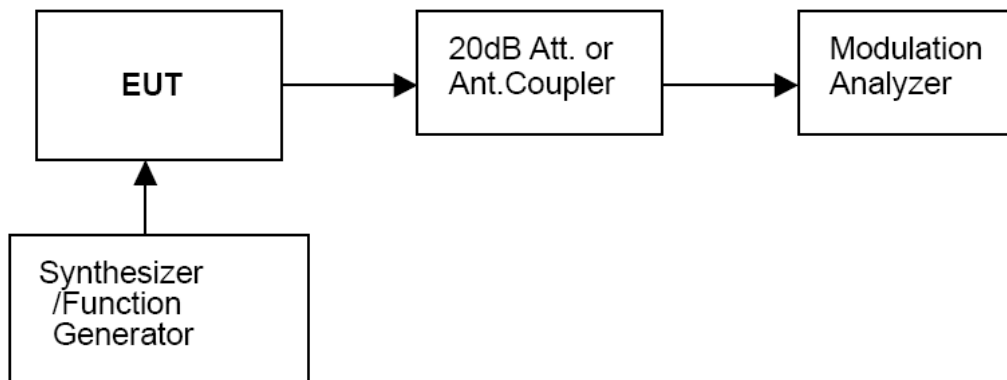
Modulation Limit

- 1 Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1 KHz using this level as a reference (0dB) and vary the input level from -20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- 2 Repeat step 1 with input frequency changing to 300, 1004, 1500 and 2500Hz in sequence.

Audio Frequency Response

- 1 Configure the EUT as shown in figure 1.
- 2 Adjust the audio input for 20% of rated system deviation at 1 KHz using this level as a reference (0dB).
- 3 Vary the Audio frequency from 100 Hz to 3 KHz and record the frequency deviation.
- 4 Audio Frequency Response = $20 \log_{10} (\text{Deviation of test frequency} / \text{Deviation of 1 KHz reference})$.

TEST CONFIGURATION

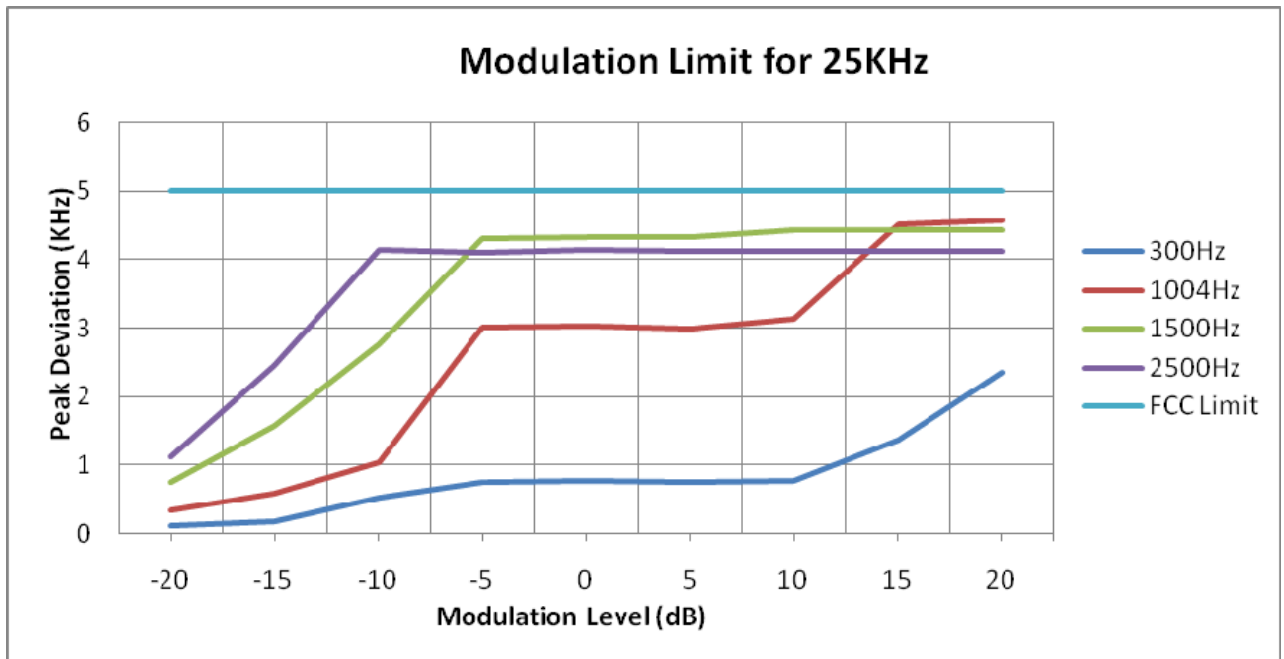


TEST RESULTS

Modulation Type: FM

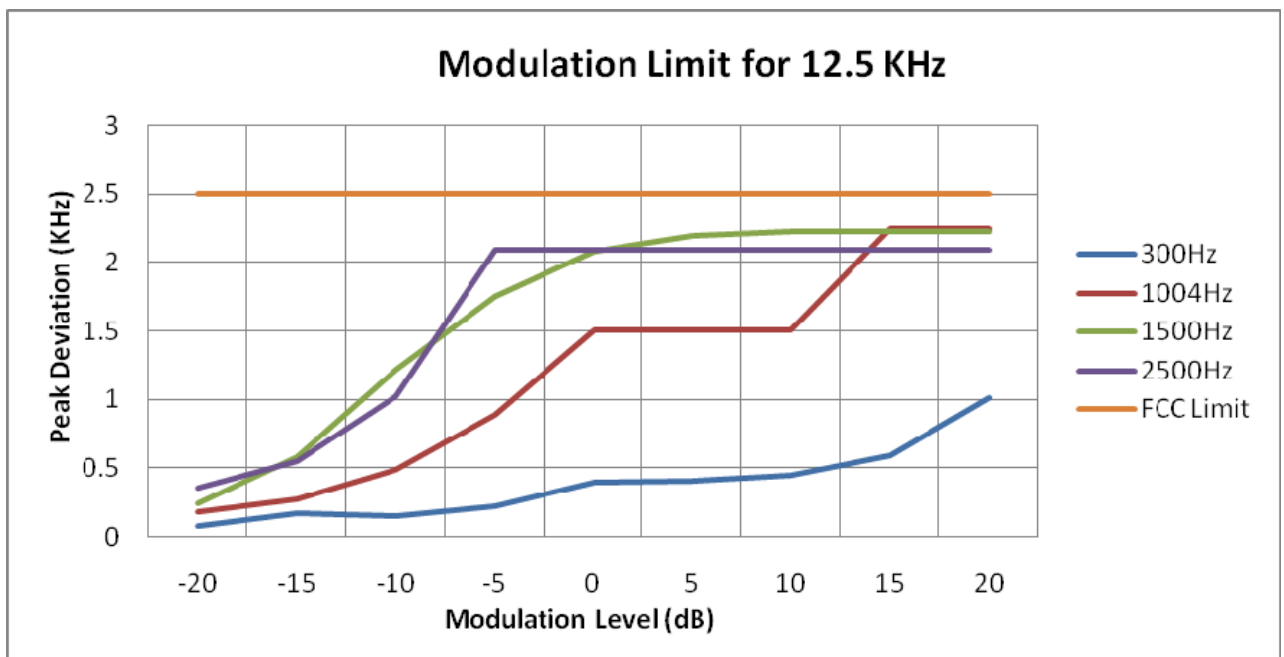
25 KHz Channel Separation

| Modulation Level(dB) | Peak Freq. Deviation At 300 Hz(KHz) | Peak Freq. Deviation At 1004 Hz(KHz) | Peak Freq. Deviation At 1500 Hz(KHz) | Peak Freq. Deviation At 2500 Hz(KHz) |
|----------------------|-------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| -20 | 0.11 | 0.34 | 0.75 | 1.12 |
| -15 | 0.18 | 0.58 | 1.57 | 2.46 |
| -10 | 0.53 | 1.04 | 2.77 | 4.15 |
| -5 | 0.76 | 3.00 | 4.32 | 4.11 |
| 0 | 0.77 | 3.04 | 4.33 | 4.14 |
| +5 | 0.76 | 2.99 | 4.34 | 4.12 |
| +10 | 0.78 | 3.13 | 4.44 | 4.13 |
| +15 | 1.36 | 4.50 | 4.44 | 4.13 |
| +20 | 2.36 | 4.57 | 4.44 | 4.12 |



12.5 KHz Channel Separation

| Modulation Level (dB) | Peak Freq. Deviation At 300 Hz(KHz) | Peak Freq. Deviation At 1004 H(KHz) | Peak Freq. Deviation At 1500 Hz(KHz) | Peak Freq. Deviation At 2500 Hz(KHz) |
|-----------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| -20 | 0.08 | 0.18 | 0.24 | 0.35 |
| -15 | 0.17 | 0.27 | 0.58 | 0.55 |
| -10 | 0.15 | 0.49 | 1.22 | 1.02 |
| -5 | 0.22 | 0.89 | 1.76 | 2.09 |
| 0 | 0.40 | 1.51 | 2.09 | 2.09 |
| +5 | 0.41 | 1.51 | 2.20 | 2.09 |
| +10 | 0.45 | 1.51 | 2.23 | 2.09 |
| +15 | 0.59 | 2.25 | 2.23 | 2.09 |
| +20 | 1.01 | 2.25 | 2.23 | 2.09 |



Modulation type: 4FSK

Channel bandwidth: 12.5 kHz

It is not applicable for devices which operate with the digitized voice/data modulation type.

b). Audio Frequency Response:

Rule Part No.: Part 2.1407(a) (b)

Method of Measurement:

The audio frequency response was measured in accordance with TIA/EIA Specification 603 with no exception. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 300-3000Hz shall be submitted and Audio Post Limiter Low Pass Filter Response from 3.0 KHz to 50KHz. However, the audio frequency response should test from 100Hz to 5.0 KHz according to FCC Part 90.

Modulation Type: FM

The audio frequency response curve is show below.and

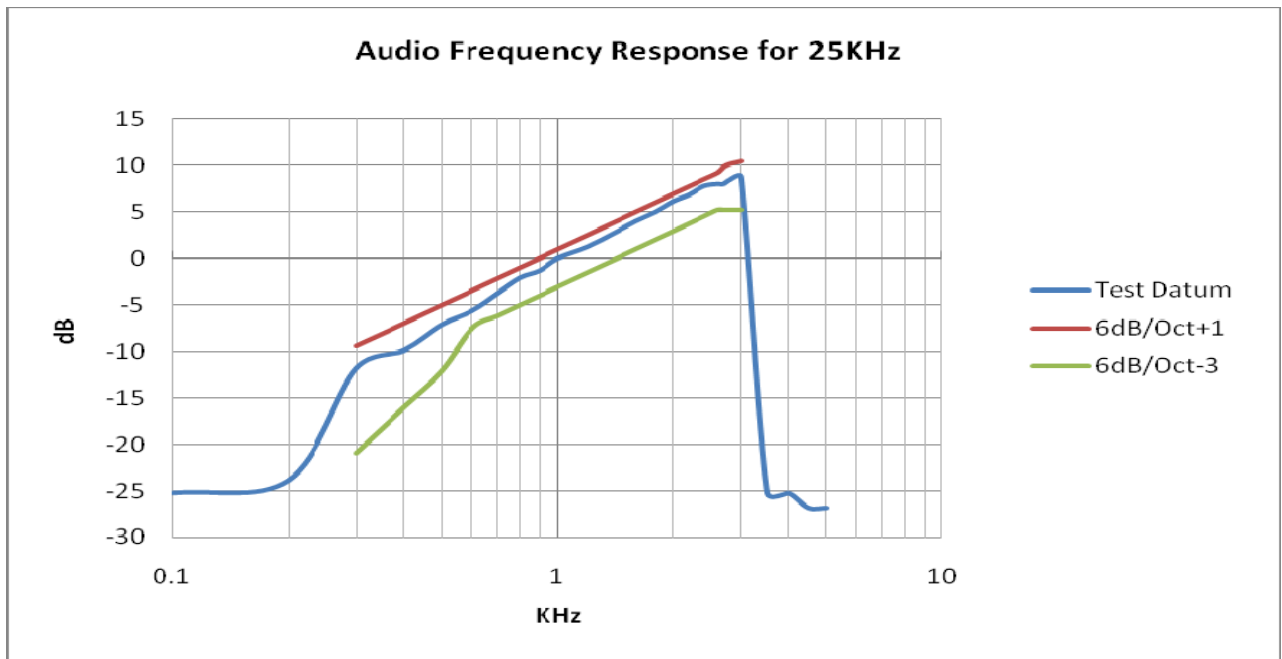
Test Audio Level (1 KHz and 20% maximum deviation) for 25 KHz channel separation is 2.25mv and 2.25mv for 12.5 KHz channel separation.

Note:

- 1 Not applicable to new standard. However, tests are conducted under FCC's recommendation.
- 2 The Audio Frequency Response is identical for 12.5 KHz and 25 KHz channel separation

For 25 KHz

| Frequency (KHz) | Frequency Deviation (KHz) | 1KHz Reference Deviation (KHz) | Audio Frequency Response (dB) |
|------------------|---------------------------|--------------------------------|-------------------------------|
| 0.1 | 0.06 | 1.09 | -25.18 |
| 0.2 | 0.07 | 1.09 | -23.84 |
| 0.3 | 0.28 | 1.09 | -11.80 |
| 0.4 | 0.35 | 1.09 | -9.86 |
| 0.5 | 0.48 | 1.09 | -7.12 |
| 0.6 | 0.57 | 1.09 | -5.63 |
| 0.7 | 0.71 | 1.09 | -3.72 |
| 0.8 | 0.86 | 1.09 | -2.05 |
| 0.9 | 0.94 | 1.09 | -1.28 |
| 1.0 | 1.09 | 1.09 | 0.00 |
| 1.2 | 1.26 | 1.09 | 1.26 |
| 1.4 | 1.49 | 1.09 | 2.72 |
| 1.6 | 1.73 | 1.09 | 4.01 |
| 1.8 | 1.94 | 1.09 | 5.01 |
| 2.0 | 2.21 | 1.09 | 6.14 |
| 2.2 | 2.40 | 1.09 | 6.86 |
| 2.4 | 2.67 | 1.09 | 7.79 |
| 2.6 | 2.74 | 1.09 | 8.01 |
| 2.7 | 2.74 | 1.09 | 8.01 |
| 2.8 | 2.88 | 1.09 | 8.44 |
| 3.0 | 3.00 | 1.09 | 8.80 |
| 3.5 | 0.06 | 1.09 | -25.18 |
| 4.0 | 0.06 | 1.09 | -25.18 |
| 4.5 | 0.05 | 1.09 | -26.76 |
| 5.0 | 0.05 | 1.09 | -26.76 |



For 12.5 KHz

| Frequency (KHz) | Frequency Deviation (KHz) | 1KHz Reference Deviation (KHz) | Audio Frequency Response (dB) |
|-----------------|---------------------------|--------------------------------|-------------------------------|
| 0.1 | 0.04 | 0.57 | -23.07 |
| 0.2 | 0.03 | 0.57 | -25.57 |
| 0.3 | 0.12 | 0.57 | -13.53 |
| 0.4 | 0.18 | 0.57 | -10.01 |
| 0.5 | 0.25 | 0.57 | -7.15 |
| 0.6 | 0.31 | 0.57 | -5.29 |
| 0.7 | 0.34 | 0.57 | -4.48 |
| 0.8 | 0.42 | 0.57 | -2.65 |
| 0.9 | 0.46 | 0.57 | -1.86 |
| 1.0 | 0.57 | 0.57 | 0.00 |
| 1.2 | 0.66 | 0.57 | 1.28 |
| 1.4 | 0.79 | 0.57 | 2.84 |
| 1.6 | 0.87 | 0.57 | 3.68 |
| 1.8 | 0.96 | 0.57 | 4.53 |
| 2.0 | 1.05 | 0.57 | 5.31 |
| 2.2 | 1.19 | 0.57 | 6.40 |
| 2.4 | 1.27 | 0.57 | 6.96 |
| 2.6 | 1.36 | 0.57 | 7.56 |
| 2.7 | 1.40 | 0.57 | 7.81 |
| 2.8 | 1.41 | 0.57 | 7.87 |
| 3.0 | 1.15 | 0.57 | 6.10 |
| 3.5 | 0.04 | 0.57 | -23.07 |
| 4.0 | 0.04 | 0.57 | -23.07 |
| 4.5 | 0.04 | 0.57 | -23.07 |
| 5.0 | 0.04 | 0.57 | -23.07 |



Modulation type: 4FSK

Channel bandwidth: 12.5 kHz

It is not applicable for devices which operate with the digitized voice/data modulation type.

4.6. Frequency Stability Test

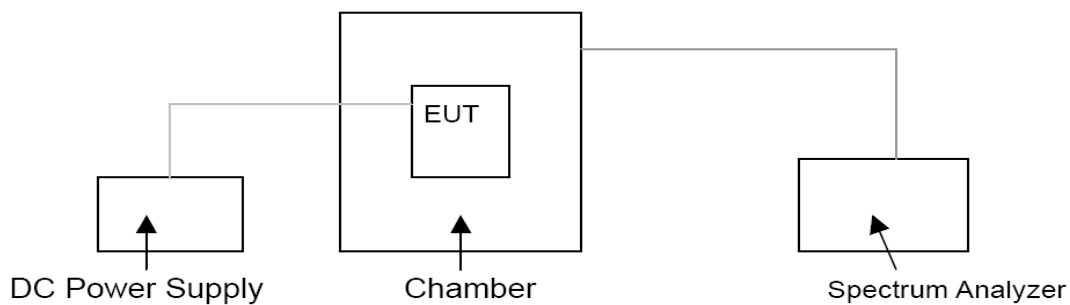
TEST APPLICABLE

- 1 According to FCC Part 2 Section 2.1055 (a)(1), the frequency stability shall be measured with variation of ambient temperature from -30°C to +60°C centigrade.
- 2 According to FCC Part 2 Section 2.1055 (a) (2), for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacture.
- 3 Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and voltage end point was 6.67V.
- 4 According to §90.213, the frequency stability limit is 2.5 ppm for 806-809MHz/851-854MHz/896-901MHz/935-940MHz and 1.5ppm for 809-824MHz/854-869MHz.

TEST PROCEDURE

The EUT was set in the climate chamber and connected to an external DC power supply. The RF output was directly connected to Spectrum Analyzer ESI 26. The coupling loss of the additional cables was recorded and taken in account for all the measurements. After temperature stabilization (approx. 20 min for each stage), the frequency for the lower, the middle and the highest frequency range was recorded. For Frequency stability Vs. Voltage the EUT was connected to a DC power supply and the voltage was adjusted in the required ranges. The result was recorded.

TEST CONFIGURATION



TEST LIMITS

According to 90.213, Transmitters used must have minimum frequency stability as specified in the following table.

| Frequency range (MHz) | Fixed and base stations | Mobile stations | |
|--------------------------------|-------------------------|---------------------------|------------------------------|
| | | Over 2 watts output power | 2 watts or less output power |
| Below 25 | 1,2,3 100 | 100 | 200 |
| 25-50 | 20 | 20 | 50 |
| 72-76 | 5 | ----- | 50 |
| 150-174 | 5,11 5 | 6 5 | 4,6 50 |
| 216-220 | 1.0 | ----- | 1.0 |
| 220-222 ¹² | 0.1 | 1.5 | 1.5 |
| 421-512 | 7,11,14 2.5 | 8 5 | 8 5 |
| 806-809 | ¹⁴ 1.0 | 1.5 | 1.5 |
| 809-824 | ¹⁴ 1.5 | 2.5 | 2.5 |
| 851-854 | 1.0 | 1.5 | 1.5 |
| 854-869 | 1.5 | 2.5 | 2.5 |
| 896-901 | ¹⁴ 0.1 | 1.5 | 1.5 |
| 902-928 | 2.5 | 2.5 | 2.5 |
| 902-928 ¹³ | 2.5 | 2.5 | 2.5 |
| 929-930 | 1.5 | ----- | ----- |
| 935-940 | 0.1 | 1.5 | 1.5 |
| 1427-1435 | 9 300 | 300 | 300 |
| Above 2450 ¹⁰ | ----- | ----- | ----- |

TEST RESULTS

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|----------|
| | | Voltage(V) | Temp(°C) | 806.5MHz | 817.0MHz | 823.5MHz |
| Analog/FM | 25KHz | 7.40 | -30 | 1.02 | 1.00 | 0.98 |
| | | | -20 | 1.00 | 1.00 | 0.94 |
| | | | -10 | 0.94 | 0.95 | 0.88 |
| | | | 0 | 0.85 | 0.79 | 0.71 |
| | | | 10 | 0.76 | 0.64 | 0.66 |
| | | | 20 | 0.67 | 0.62 | 0.60 |
| | | | 30 | 0.67 | 0.62 | 0.60 |
| | | | 40 | 0.71 | 0.76 | 0.69 |
| | | | 50 | 0.83 | 0.80 | 0.72 |
| | | | 6.67 (End point) | 20 | 0.67 | 0.62 |
| | | 6.29 (85% Rated) | 20 | 0.67 | 0.77 | 0.60 |
| | | 8.51 (115% Rated) | 20 | 0.67 | 0.62 | 0.60 |
| Limit | | | 1.50 | 2.50 | 2.50 | |
| Conclusion | | | Complies | | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|----------|
| | | Voltage(V) | Temp(°C) | 851.5MHz | 860.0MHz | 868.5MHz |
| Analog/FM | 25KHz | 7.40 | -30 | 0.94 | 0.92 | 0.91 |
| | | | -20 | 0.90 | 0.88 | 0.88 |
| | | | -10 | 0.88 | 0.84 | 0.80 |
| | | | 0 | 0.74 | 0.77 | 0.76 |
| | | | 10 | 0.61 | 0.59 | 0.64 |
| | | | 20 | 0.57 | 0.53 | 0.51 |
| | | | 30 | 0.57 | 0.59 | 0.51 |
| | | | 40 | 0.66 | 0.61 | 0.56 |
| | | | 50 | 0.70 | 0.68 | 0.66 |
| | | | 6.67 (End point) | 20 | 0.57 | 0.53 |
| | | 6.29 (85% Rated) | 20 | 0.57 | 0.59 | 0.56 |
| | | 8.51 (115% Rated) | 20 | 0.61 | 0.53 | 0.56 |
| Limit | | | 1.50 | 2.50 | 2.50 | |
| Conclusion | | | Complies | | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|----------|
| | | Voltage(V) | Temp(°C) | 806.5MHz | 817.0MHz | 823.5MHz |
| Analog/FM | 12.5KHz | 7.40 | -30 | 1.02 | 1.01 | 0.99 |
| | | | -20 | 1.02 | 1.00 | 0.91 |
| | | | -10 | 0.96 | 0.91 | 0.88 |
| | | | 0 | 0.85 | 0.81 | 0.73 |
| | | | 10 | 0.79 | 0.64 | 0.76 |
| | | | 20 | 0.67 | 0.64 | 0.64 |
| | | | 30 | 0.67 | 0.64 | 0.64 |
| | | | 40 | 0.73 | 0.76 | 0.69 |
| | | | 50 | 0.83 | 0.82 | 0.77 |
| | | | 6.67 (End point) | 20 | 0.67 | 0.62 |
| | | 6.29 (85% Rated) | 20 | 0.67 | 0.64 | 0.64 |
| | | 8.51 (115% Rated) | 20 | 0.67 | 0.64 | 0.64 |
| Limit | | | 1.50 | 2.50 | 2.50 | |
| Conclusion | | | Complies | | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|----------|
| | | Voltage(V) | Temp(°C) | 851.5MHz | 860.0MHz | 868.5MHz |
| Analog/FM | 12.5KHz | 7.40 | -30 | 0.96 | 0.92 | 0.91 |
| | | | -20 | 0.92 | 0.90 | 0.90 |
| | | | -10 | 0.90 | 0.87 | 0.84 |
| | | | 0 | 0.79 | 0.74 | 0.70 |
| | | | 10 | 0.66 | 0.64 | 0.64 |
| | | | 20 | 0.57 | 0.59 | 0.55 |
| | | | 30 | 0.57 | 0.59 | 0.55 |
| | | | 40 | 0.66 | 0.61 | 0.61 |
| | | | 50 | 0.77 | 0.68 | 0.66 |
| | | | 6.67 (End point) | 20 | 0.66 | 0.64 |
| | | 6.29 (85% Rated) | 20 | 0.57 | 0.64 | 0.61 |
| | | 8.51 (115% Rated) | 20 | 0.57 | 0.59 | 0.61 |
| Limit | | | 1.50 | 2.50 | 2.50 | |
| Conclusion | | | Complies | | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|
| | | Voltage(V) | Temp(°C) | 896.5MHz | 900.5MHz |
| Analog/FM | 12.5KHz | 7.40 | -30 | 0.84 | 0.84 |
| | | | -20 | 0.80 | 0.84 |
| | | | -10 | 0.69 | 0.77 |
| | | | 0 | 0.57 | 0.64 |
| | | | 10 | 0.49 | 0.50 |
| | | | 20 | 0.44 | 0.41 |
| | | | 30 | 0.44 | 0.41 |
| | | | 40 | 0.56 | 0.59 |
| | | | 50 | 0.61 | 0.66 |
| | | | 6.67 (End point) | 20 | 0.44 |
| | | 6.29 (85% Rated) | 20 | 0.44 | 0.41 |
| | | 8.51 (115% Rated) | 20 | 0.44 | 0.41 |
| Limit | | | 1.50 | 1.50 | |
| Conclusion | | | Complies | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|
| | | Voltage(V) | Temp(°C) | 935.5MHz | 939.5MHz |
| Analog/FM | 12.5KHz | 7.40 | -30 | 0.81 | 0.79 |
| | | | -20 | 0.74 | 0.79 |
| | | | -10 | 0.61 | 0.64 |
| | | | 0 | 0.55 | 0.55 |
| | | | 10 | 0.49 | 0.46 |
| | | | 20 | 0.40 | 0.37 |
| | | | 30 | 0.40 | 0.37 |
| | | | 40 | 0.48 | 0.49 |
| | | | 50 | 0.61 | 0.61 |
| | | | 6.67 (End point) | 20 | 0.40 |
| | | 6.29 (85% Rated) | 20 | 0.40 | 0.37 |
| | | 8.51 (115% Rated) | 20 | 0.56 | 0.37 |
| Limit | | | 1.50 | 1.50 | |
| Conclusion | | | Complies | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|----------|
| | | Voltage(V) | Temp(°C) | 806.5MHz | 817.0MHz | 823.5MHz |
| Digital/4FSK | 12.5KHz | 7.40 | -30 | 1.00 | 1.01 | 1.00 |
| | | | -20 | 0.97 | 0.95 | 0.92 |
| | | | -10 | 0.96 | 0.88 | 0.84 |
| | | | 0 | 0.86 | 0.81 | 0.76 |
| | | | 10 | 0.78 | 0.73 | 0.76 |
| | | | 20 | 0.69 | 0.64 | 0.62 |
| | | | 30 | 0.67 | 0.64 | 0.62 |
| | | | 40 | 0.77 | 0.74 | 0.69 |
| | | | 50 | 0.83 | 0.82 | 0.77 |
| | | | 6.67 (End point) | 20 | 0.69 | 0.64 |
| | | 6.29 (85% Rated) | 20 | 0.69 | 0.64 | 0.64 |
| | | 8.51 (115% Rated) | 20 | 0.67 | 0.64 | 0.64 |
| Limit | | | 1.50 | 2.50 | 2.50 | |
| Conclusion | | | Complies | | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|----------|
| | | Voltage(V) | Temp(°C) | 851.5MHz | 860.0MHz | 868.5MHz |
| Digital/4FSK | 12.5KHz | 7.40 | -30 | 0.96 | 0.95 | 0.91 |
| | | | -20 | 0.93 | 0.91 | 0.88 |
| | | | -10 | 0.88 | 0.85 | 0.81 |
| | | | 0 | 0.80 | 0.74 | 0.74 |
| | | | 10 | 0.71 | 0.66 | 0.61 |
| | | | 20 | 0.54 | 0.59 | 0.53 |
| | | | 30 | 0.54 | 0.59 | 0.55 |
| | | | 40 | 0.66 | 0.63 | 0.61 |
| | | | 50 | 0.73 | 0.71 | 0.72 |
| | | | 6.67 (End point) | 20 | 0.54 | 0.59 |
| | | 6.29 (85% Rated) | 20 | 0.61 | 0.59 | 0.66 |
| | | 8.51 (115% Rated) | 20 | 0.64 | 0.64 | 0.66 |
| Limit | | | 1.50 | 2.50 | 2.50 | |
| Conclusion | | | Complies | | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|
| | | Voltage(V) | Temp(°C) | 896.5MHz | 900.5MHz |
| Digital/4FSK | 12.5KHz | 7.40 | -30 | 0.84 | 0.82 |
| | | | -20 | 0.80 | 0.80 |
| | | | -10 | 0.71 | 0.77 |
| | | | 0 | 0.62 | 0.62 |
| | | | 10 | 0.53 | 0.50 |
| | | | 20 | 0.44 | 0.41 |
| | | | 30 | 0.44 | 0.41 |
| | | | 40 | 0.56 | 0.59 |
| | | | 50 | 0.65 | 0.66 |
| | | | 6.67 (End point) | 20 | 0.49 |
| | | 6.29 (85% Rated) | 20 | 0.44 | 0.41 |
| | | 8.51 (115% Rated) | 20 | 0.49 | 0.41 |
| Limit | | | 1.50 | 1.50 | |
| Conclusion | | | Complies | | |

| Modulation Type | Channel Separation | Test conditions | | Frequency error (ppm) | |
|-----------------|--------------------|-------------------|------------------|-----------------------|----------|
| | | Voltage(V) | Temp(°C) | 935.5MHz | 939.5MHz |
| Digital/4FSK | 12.5KHz | 7.40 | -30 | 0.82 | 0.80 |
| | | | -20 | 0.77 | 0.79 |
| | | | -10 | 0.66 | 0.64 |
| | | | 0 | 0.58 | 0.55 |
| | | | 10 | 0.51 | 0.49 |
| | | | 20 | 0.40 | 0.37 |
| | | | 30 | 0.40 | 0.37 |
| | | | 40 | 0.46 | 0.49 |
| | | | 50 | 0.62 | 0.61 |
| | | | 6.67 (End point) | 20 | 0.40 |
| | | 6.29 (85% Rated) | 20 | 0.40 | 0.37 |
| | | 8.51 (115% Rated) | 20 | 0.40 | 0.37 |
| | | Limit | | | |
| Conclusion | | | | Complies | |

4.7. Maximum Transmitter Power

TEST APPLICABLE

Per FCC «2.1046 and «90.205: Maximum ERP is dependent upon the station’s antenna HAAT and required service area.

TEST PROCEDURE

Measurements shall be made to establish the radio frequency power delivered by the transmitter the standard output termination. The power output shall be monitored and recorded and no adjustment shall be made to the transmitter after the test has begun, except as noted below:

If the power output is adjustable, measurements shall be made for the highest and lowest power levels.

The EUT connect to the Receiver through 20 dB attenuator.

Measurement with Spectrum Analyzer FSP40 or Aglient E4407B conducted, external power supply with 7.40 V stabilized supply voltage.

TEST CONFIGURATION

| | | | | |
|-----|--|------------|--|----------------------------|
| EUT | | Attenuator | | Spectrum Analyzer/Receiver |
|-----|--|------------|--|----------------------------|

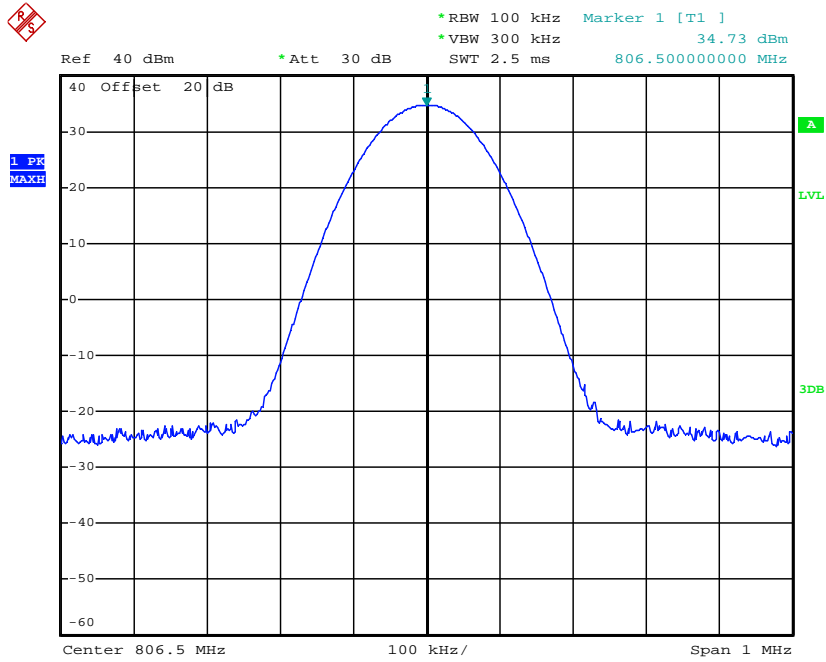
The EUT was directly connected to a RF Communication Test set by a 20 dB attenuator

TEST RESULTS

| Frequency Range (MHz) | Modulation Type | Channel Separation (KHz) | Test Channel | Maximum Output Power Test Results (dBm) | |
|-----------------------|---|--------------------------|--------------|---|-----------------|
| | | | | Rated High Power | Rated Low Power |
| 806-825 | Analog/FM | 25 | Low | 34.73 | 29.31 |
| | | | Middle | 34.76 | 29.20 |
| | | | High | 34.73 | 29.20 |
| | | 12.5 | Low | 34.73 | 29.23 |
| | | | Middle | 34.67 | 29.16 |
| | | | High | 34.76 | 29.18 |
| | Digital/4FSK | 12.5 | Low | 34.72 | 29.57 |
| | | | Middle | 34.71 | 29.52 |
| | | | High | 34.74 | 29.56 |
| 851-870 | Analog/FM | 25 | Low | 34.72 | 29.29 |
| | | | Middle | 34.70 | 29.38 |
| | | | High | 34.74 | 29.47 |
| | | 12.5 | Low | 34.73 | 29.29 |
| | | | Middle | 34.75 | 29.35 |
| | | | High | 34.60 | 29.41 |
| | Digital/4FSK | 12.5 | Low | 34.63 | 29.67 |
| | | | Middle | 34.74 | 29.62 |
| | | | High | 34.73 | 29.59 |
| 896-902 | Analog/FM | 12.5 | Low | 34.26 | 29.36 |
| | | | High | 34.16 | 29.37 |
| | Digital/4FSK | | Low | 34.70 | 29.52 |
| | | | High | 34.61 | 29.41 |
| 935-941 | Analog/FM | 12.5 | Low | 34.44 | 29.37 |
| | | | High | 34.77 | 29.19 |
| | Digital/4FSK | | Low | 34.72 | 29.02 |
| | | | High | 34.64 | 29.25 |
| Limit | The limit is dependent upon the station’s antenna HAAT and required service area. | | | | |
| Test Results | Compliance | | | | |

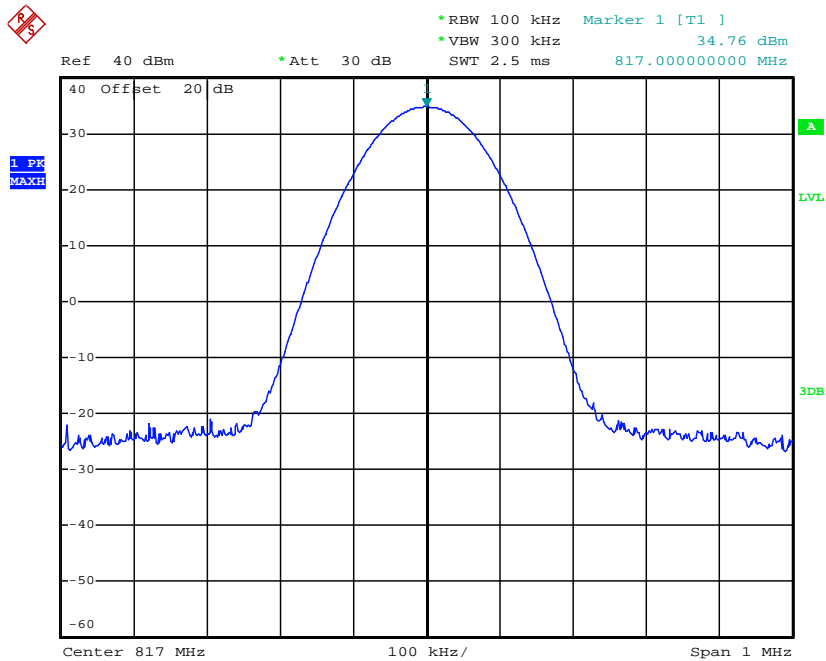
Plots of Maximum Transmitter Power Measurement

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 806.5000 | 2.5 | 34.73 | Varies | Complicance |



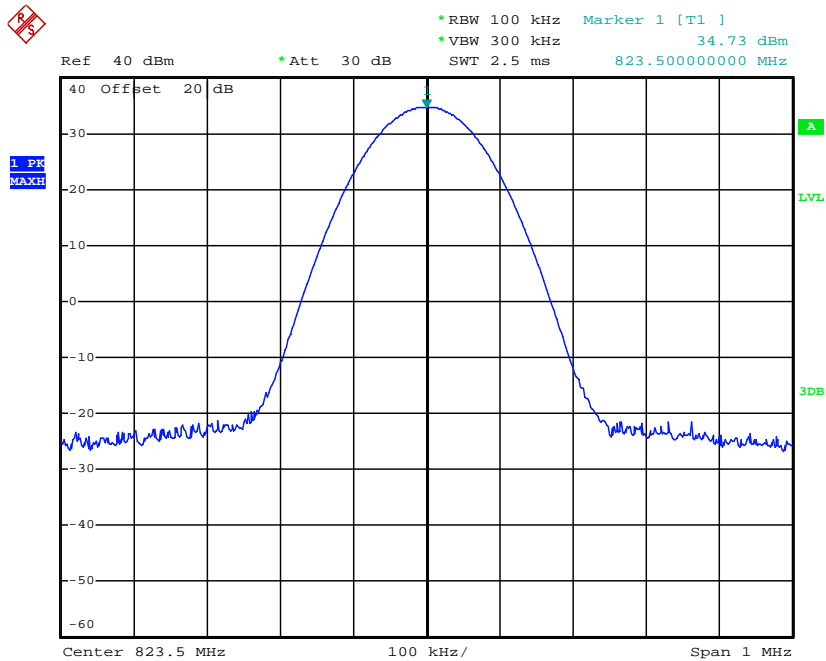
Date: 11.APR.2012 10:26:54

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 817.0000 | 2.5 | 34.76 | Varies | Complicance |



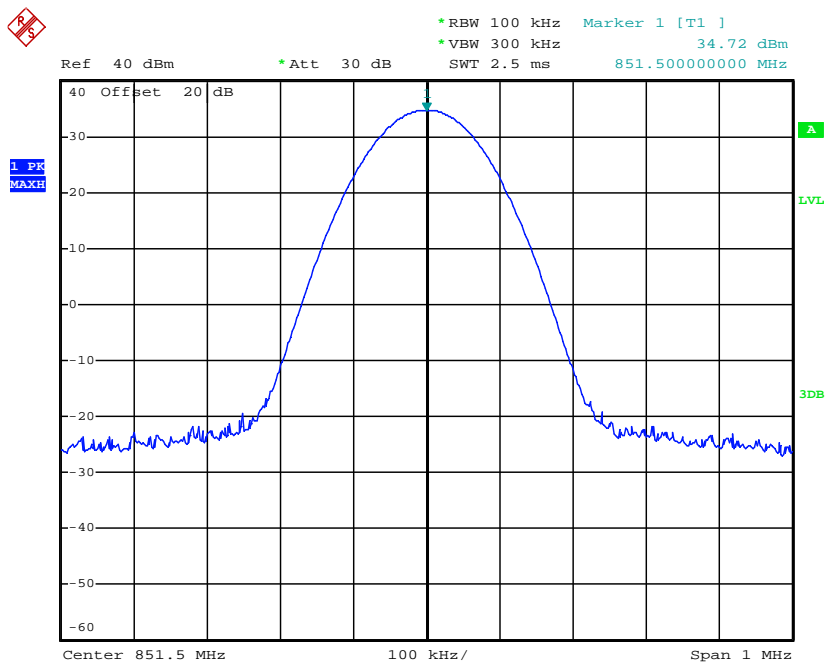
Date: 11.APR.2012 10:28:03

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 823.5000 | 2.5 | 34.73 | Varies | Complicance |



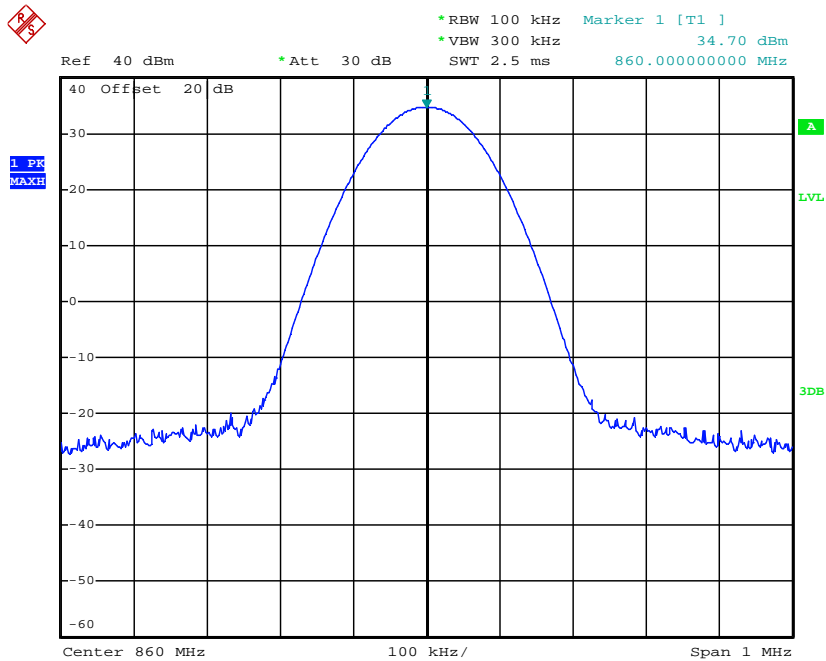
Date: 11.APR.2012 10:28:48

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 851.5000 | 2.5 | 34.72 | Varies | Complicance |



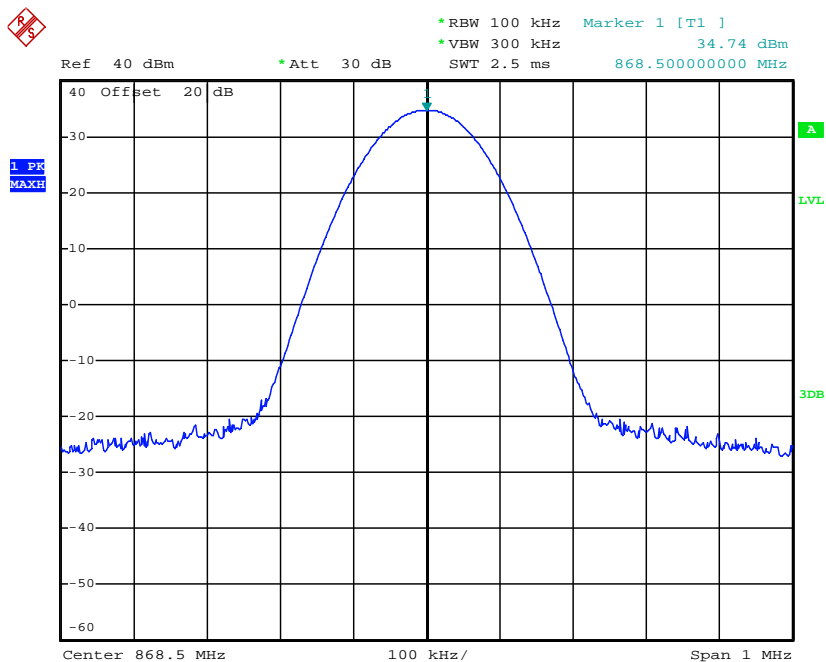
Date: 11.APR.2012 10:29:29

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 860.0000 | 2.5 | 34.70 | Varies | Complicance |



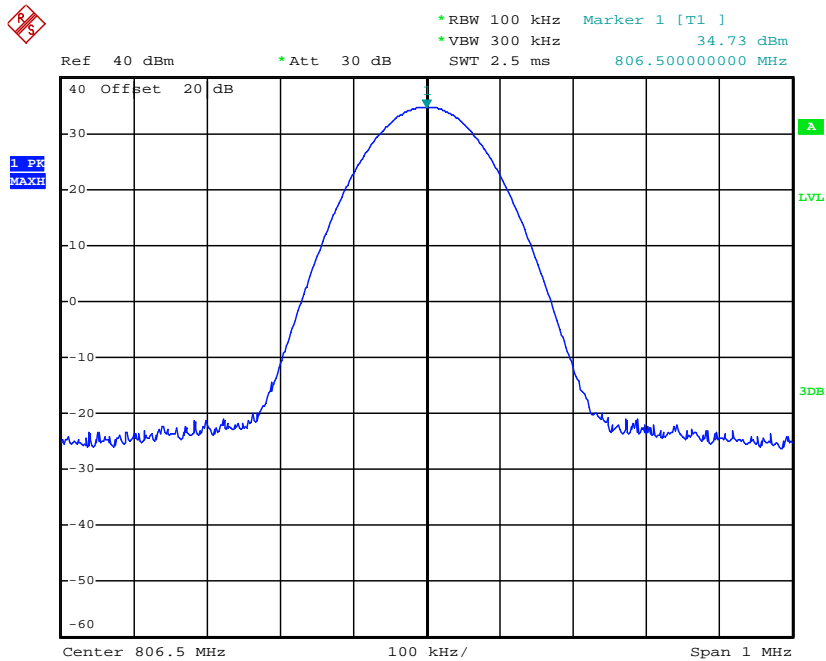
Date: 11.APR.2012 10:30:26

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 868.5000 | 2.5 | 34.74 | Varies | Complicance |



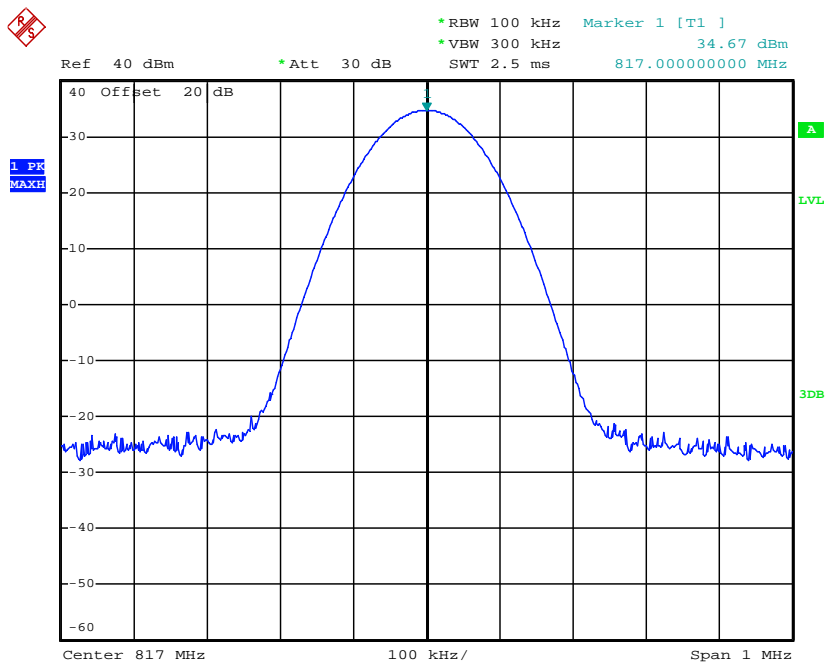
Date: 11.APR.2012 10:31:09

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 806.5000 | 2.5 | 34.73 | Varies | Complicance |



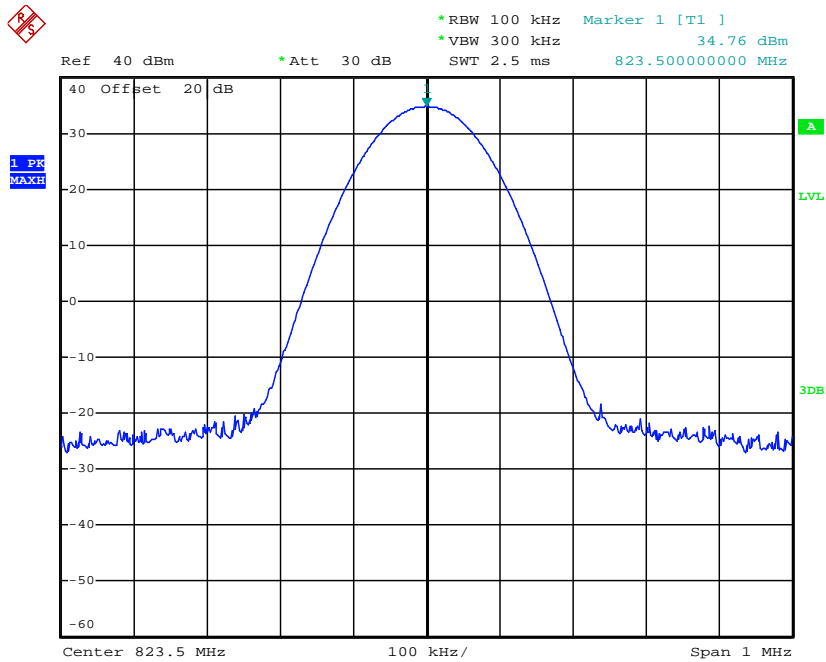
Date: 11.APR.2012 10:32:15

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 817.0000 | 2.5 | 34.67 | Varies | Complicance |



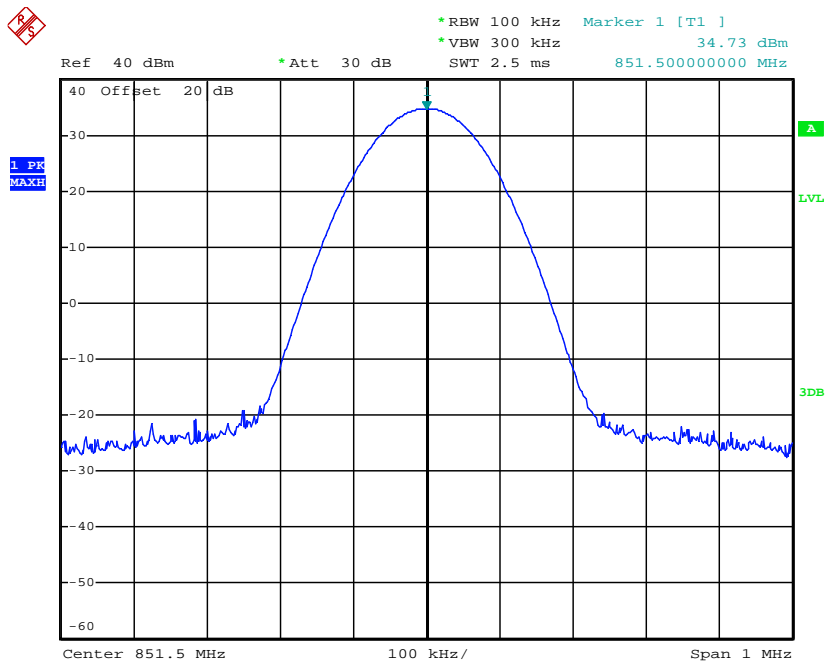
Date: 11.APR.2012 10:32:54

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 823.5000 | 2.5 | 34.76 | Varies | Complicance |



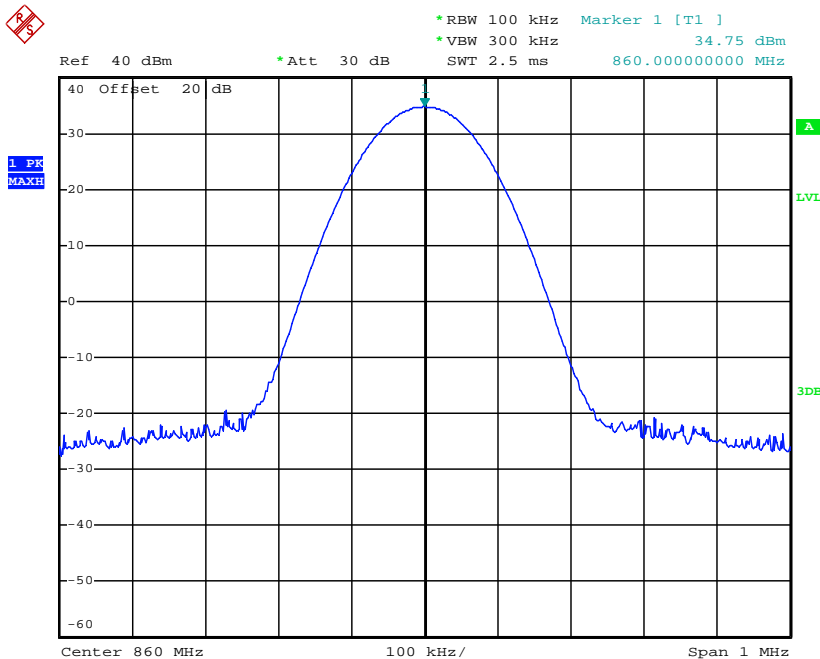
Date: 11.APR.2012 10:33:31

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 851.5000 | 2.5 | 34.73 | Varies | Complicance |



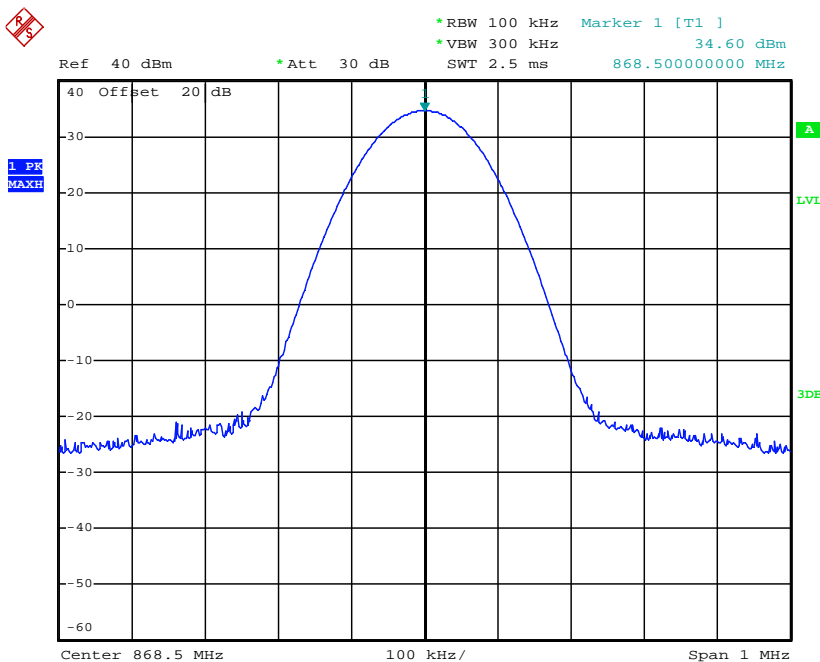
Date: 11.APR.2012 10:36:23

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 860.0000 | 2.5 | 34.75 | Varies | Complicance |



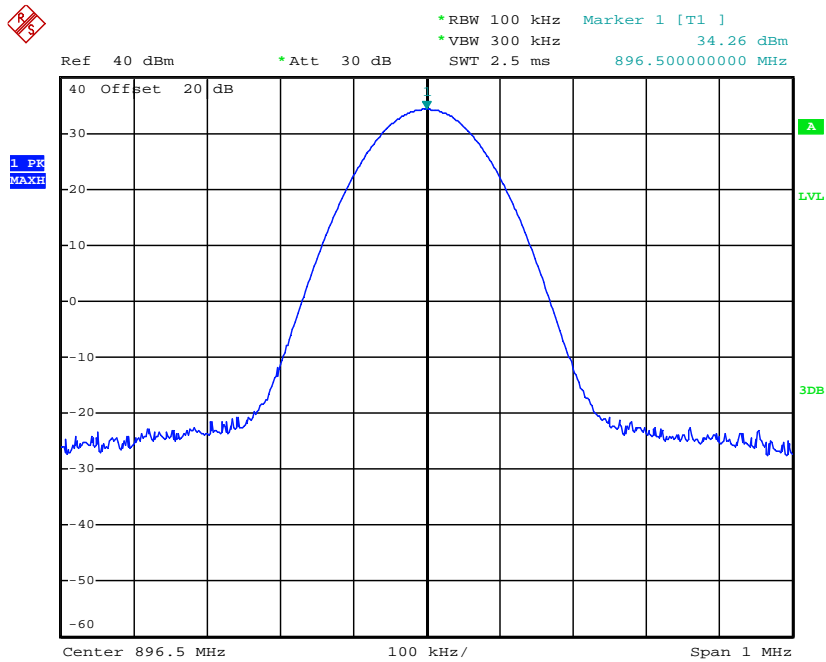
Date: 11.APR.2012 10:37:07

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 868.5000 | 2.5 | 34.60 | Varies | Complicance |



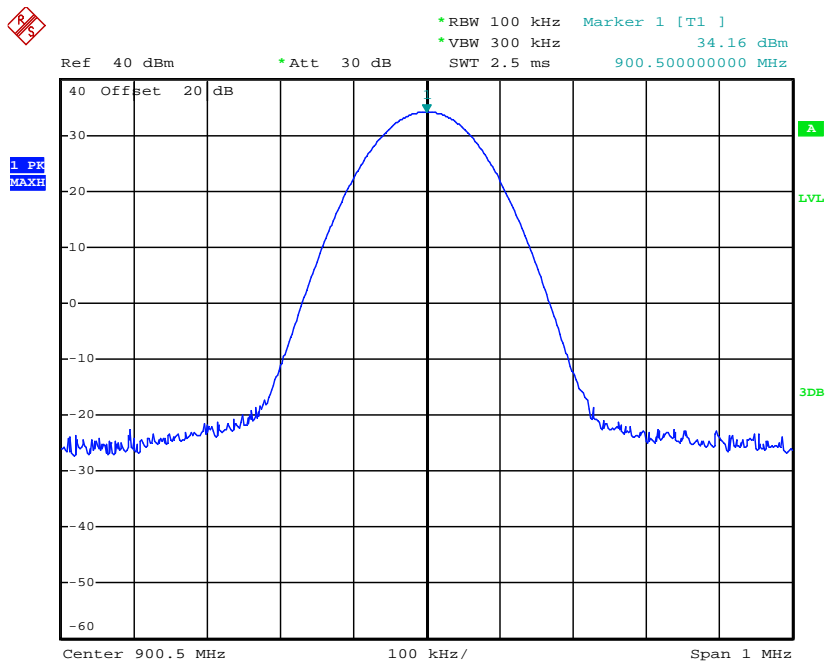
Date: 11.APR.2012 10:37:47

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 896.5000 | 2.5 | 34.26 | Varies | Complicance |



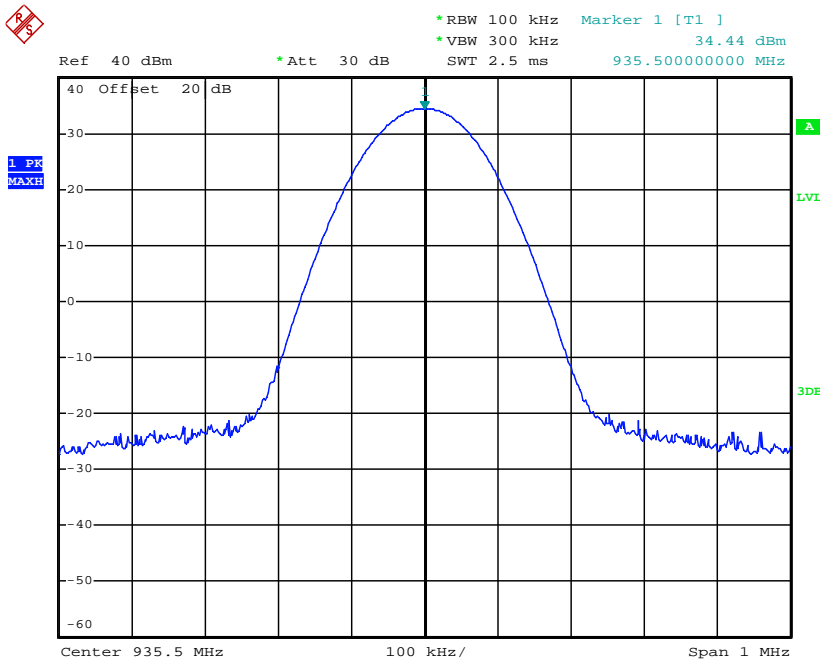
Date: 11.APR.2012 10:38:48

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 900.5000 | 2.5 | 34.16 | Varies | Complicance |



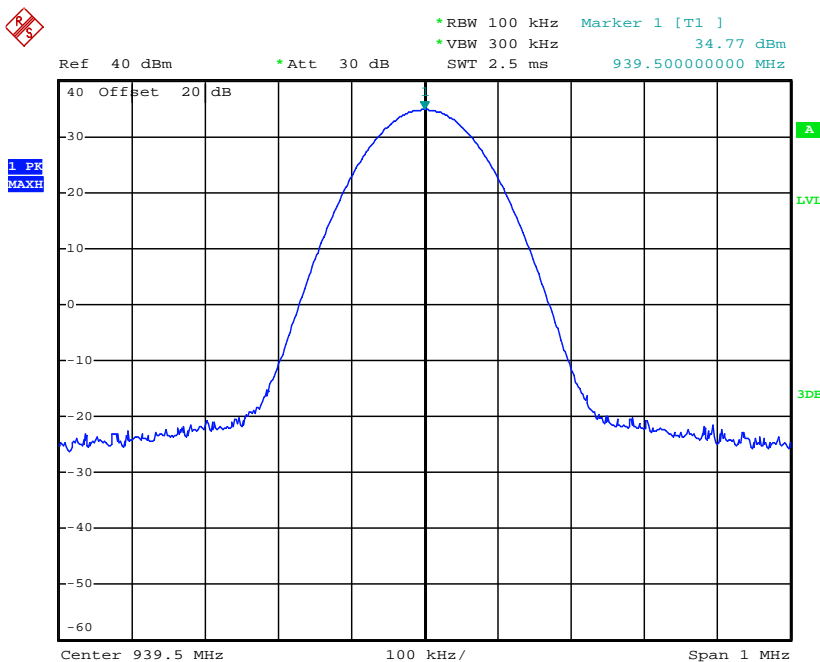
Date: 11.APR.2012 10:39:43

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 935.5000 | 2.5 | 34.44 | Varies | Complicance |



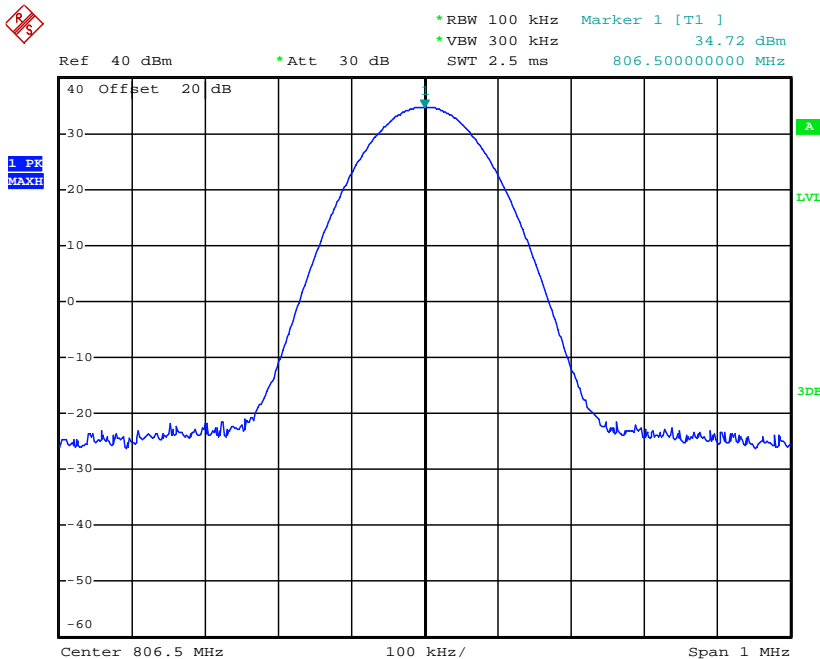
Date: 11.APR.2012 10:40:58

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 939.5000 | 2.5 | 34.77 | Varies | Complicance |



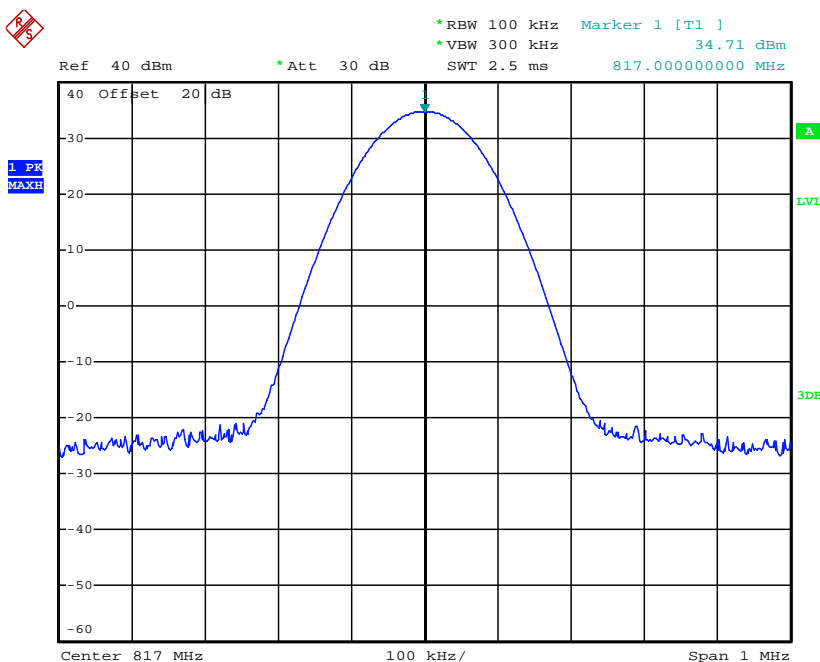
Date: 11.APR.2012 10:59:12

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 806.5000 | 2.5 | 34.72 | Varies | Complicance |



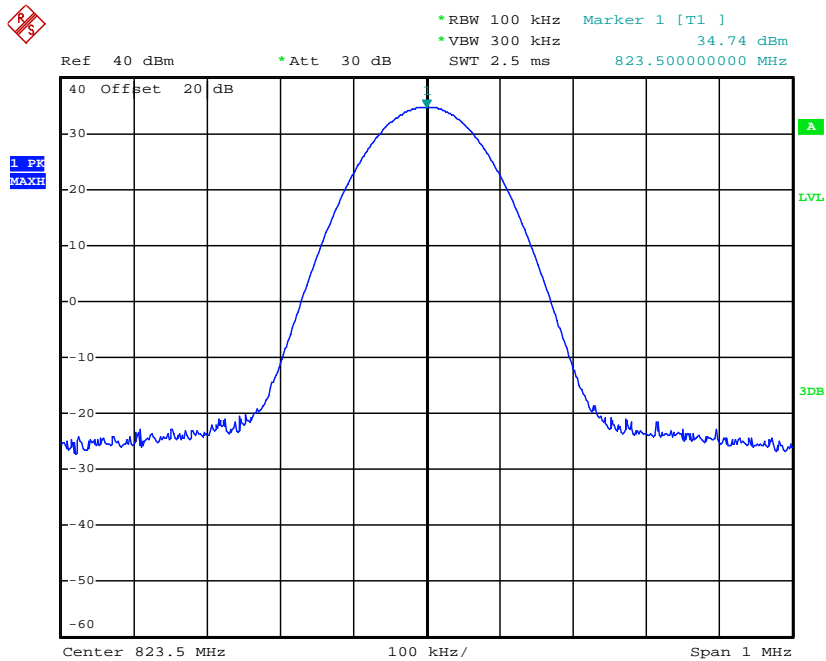
Date: 11.APR.2012 10:44:49

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 817.0000 | 2.5 | 34.71 | Varies | Complicance |



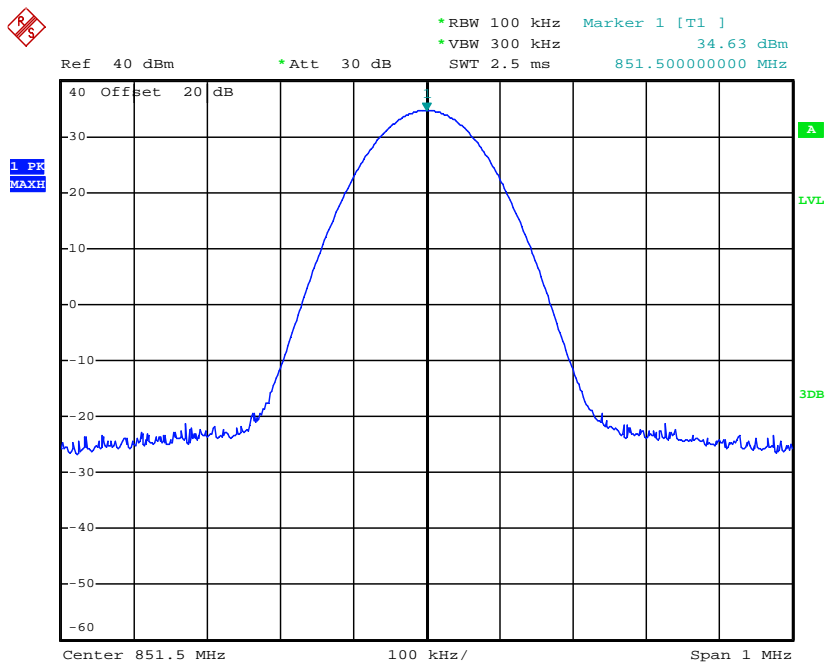
Date: 11.APR.2012 10:45:33

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 823.5000 | 2.5 | 34.74 | Varies | Complicance |



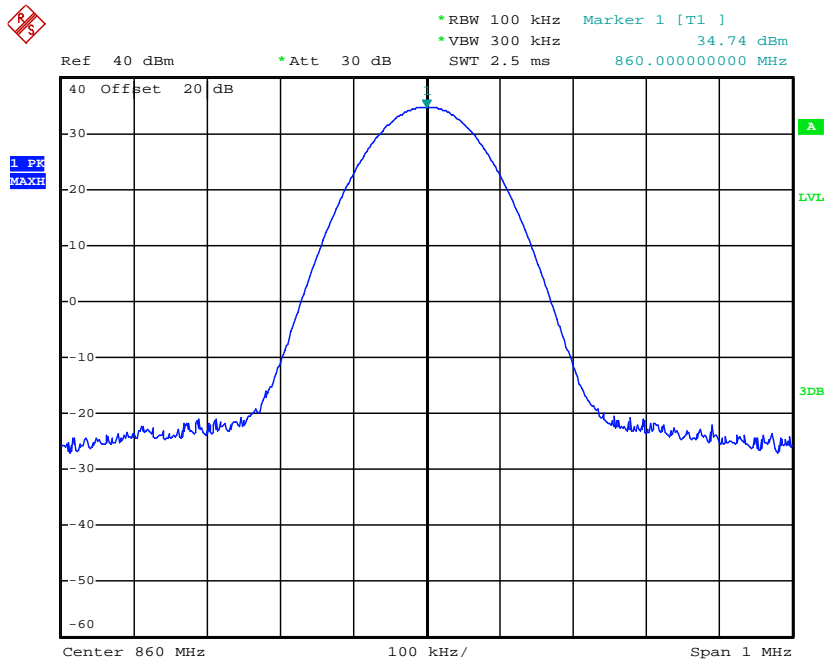
Date: 11.APR.2012 10:46:00

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 851.5000 | 2.5 | 34.63 | Varies | Complicance |



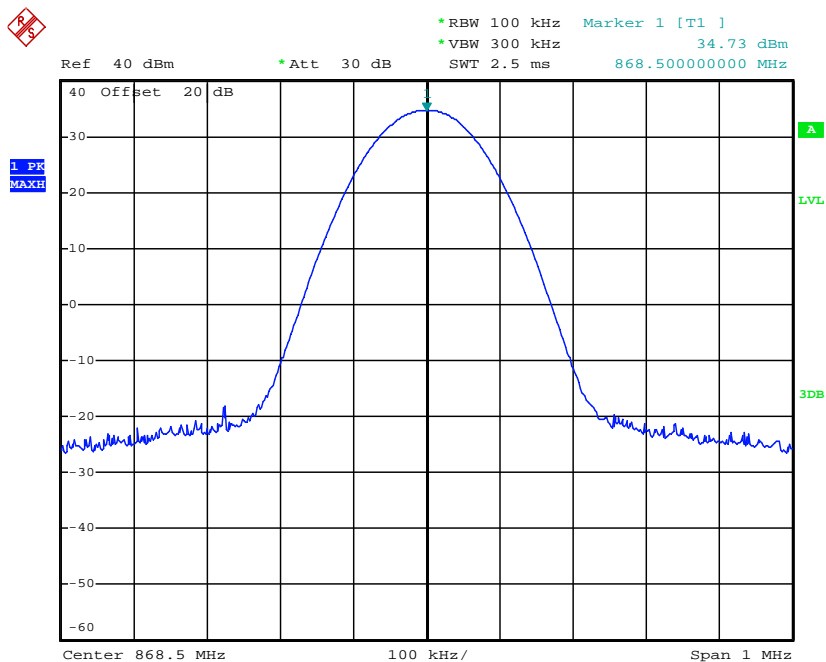
Date: 11.APR.2012 10:46:37

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 860.0000 | 2.5 | 34.74 | Varies | Complicance |



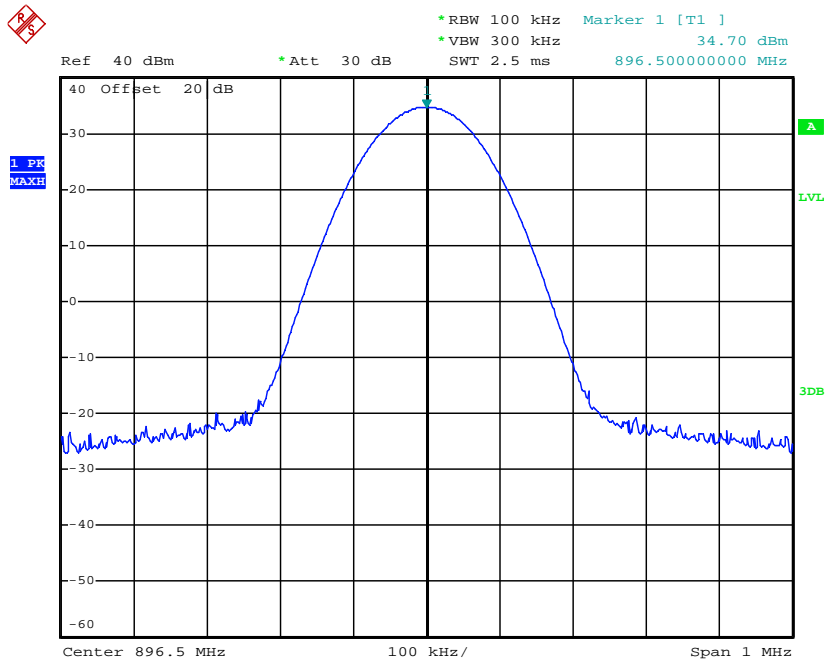
Date: 11.APR.2012 10:47:43

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 868.5000 | 2.5 | 34.73 | Varies | Complicance |



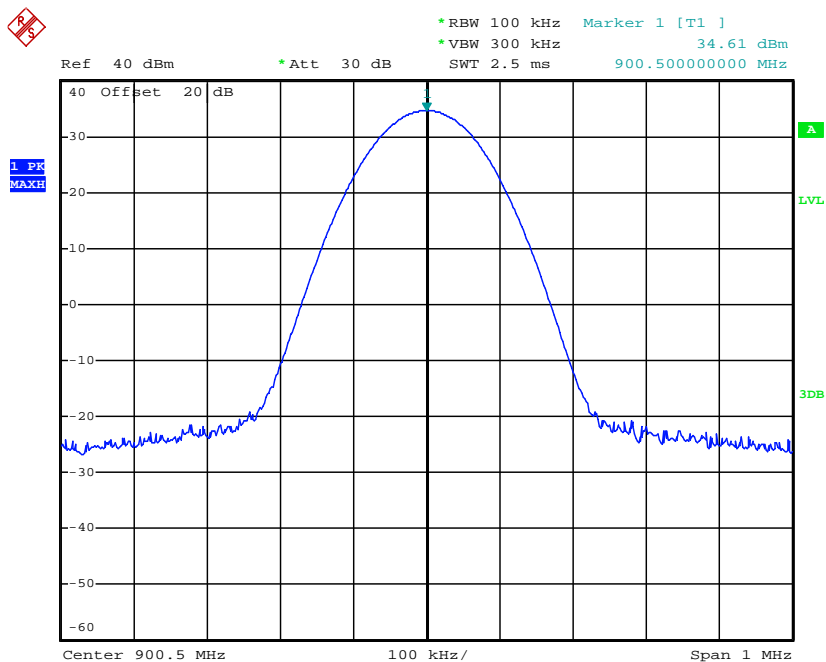
Date: 11.APR.2012 10:54:01

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 896.5000 | 2.5 | 34.70 | Varies | Complicance |



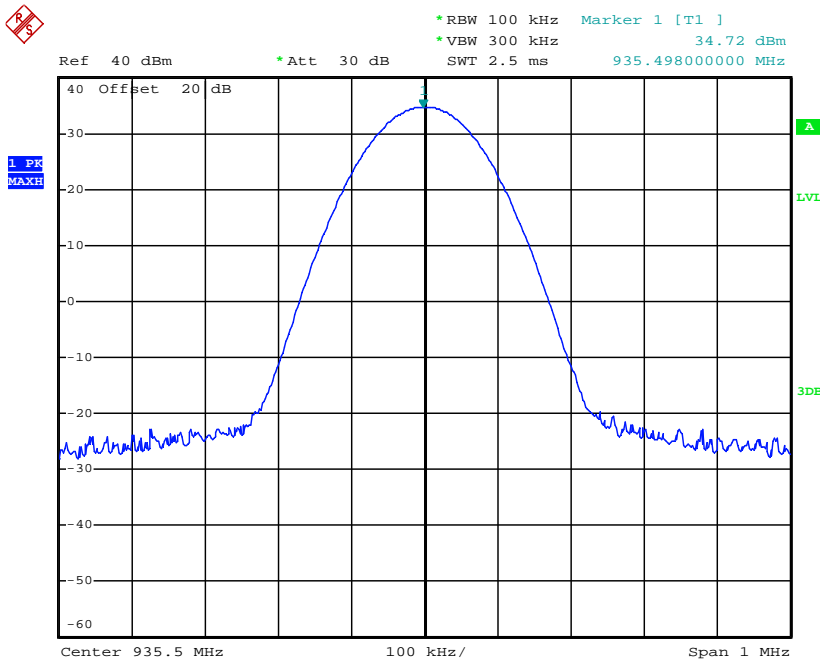
Date: 11.APR.2012 10:55:08

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 900.5000 | 2.5 | 34.61 | Varies | Complicance |



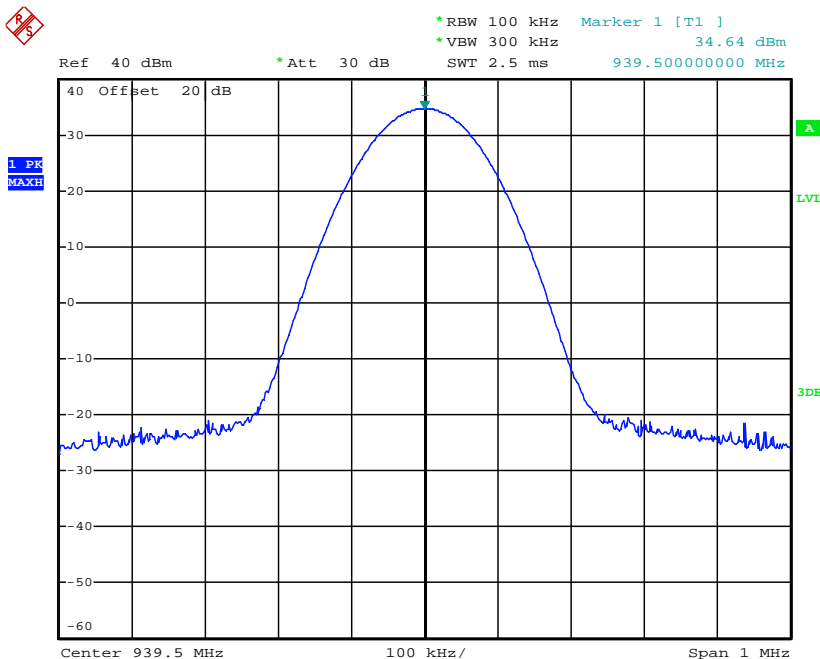
Date: 11.APR.2012 10:55:51

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 935.5000 | 2.5 | 34.72 | Varies | Complicance |



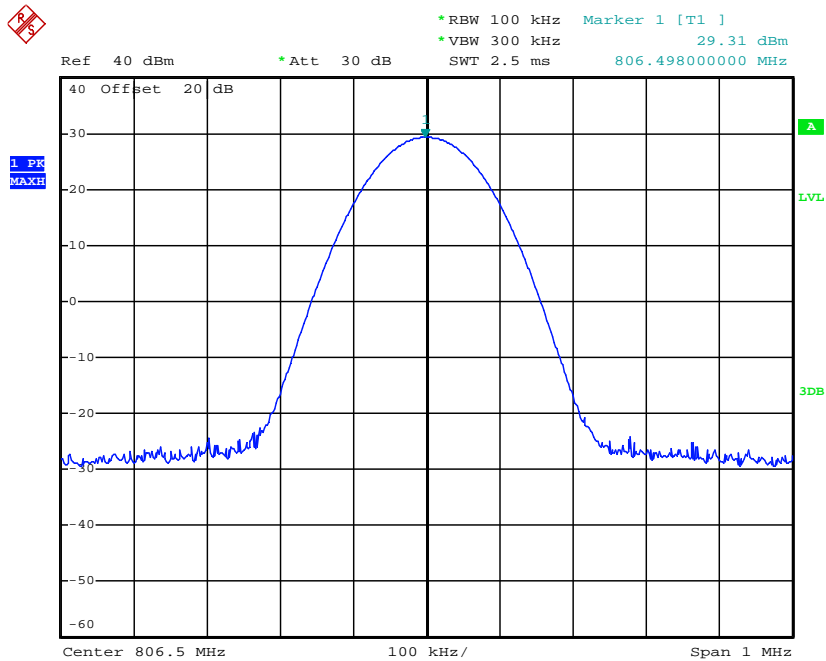
Date: 11.APR.2012 10:56:30

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 939.5000 | 2.5 | 34.64 | Varies | Complicance |



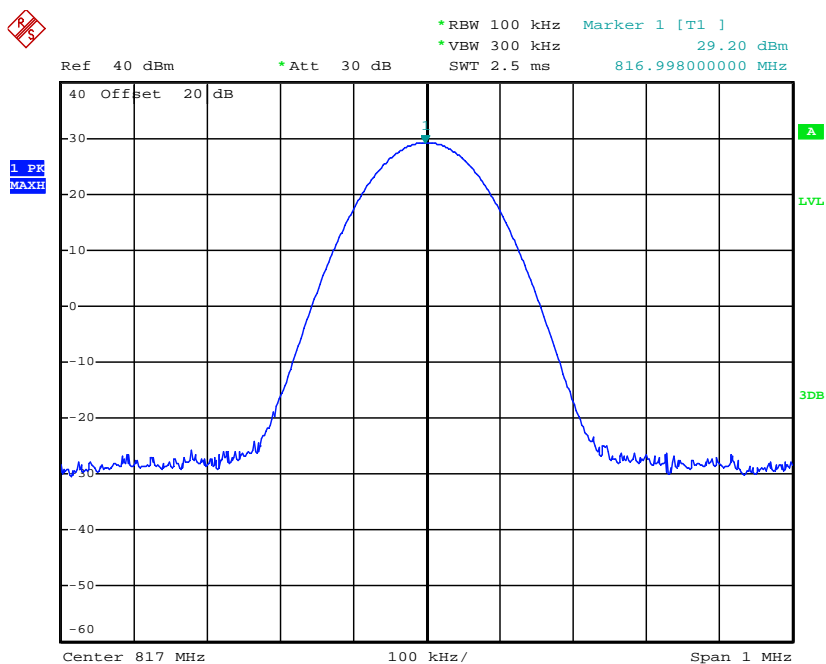
Date: 11.APR.2012 10:57:39

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 806.5000 | 1 | 29.31 | Varies | Complicance |



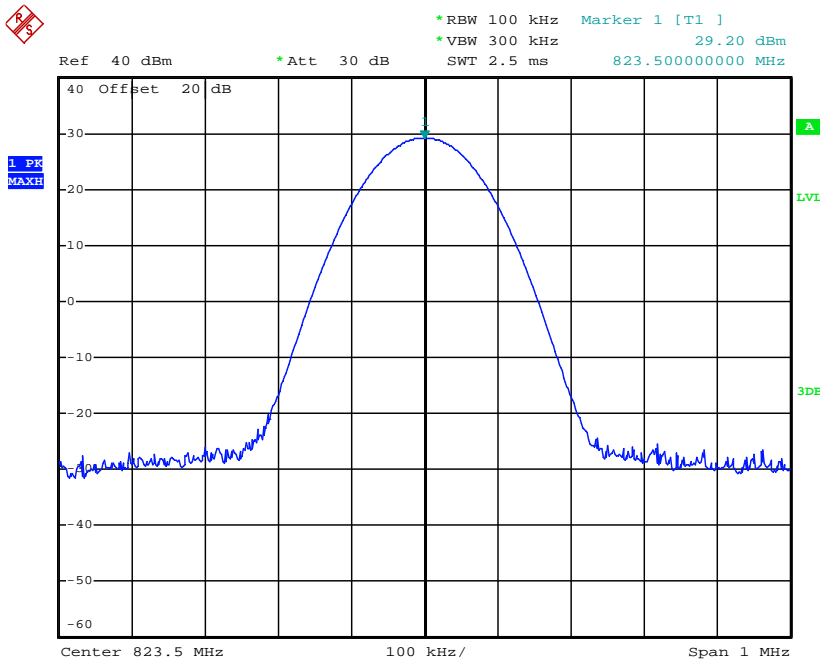
Date: 11.APR.2012 10:27:37

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 817.0000 | 1 | 29.20 | Varies | Complicance |



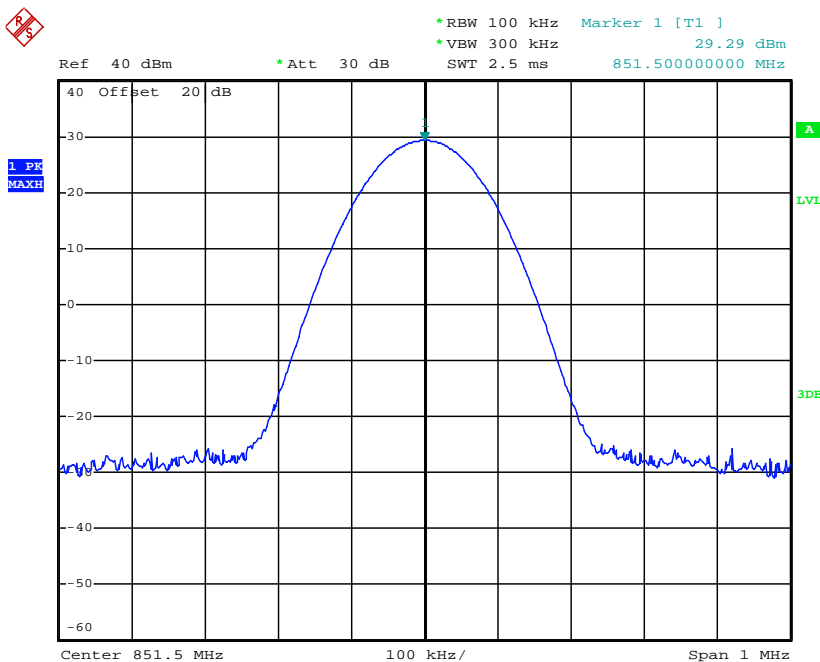
Date: 11.APR.2012 10:28:24

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 823.5000 | 1 | 29.20 | Varies | Complicance |



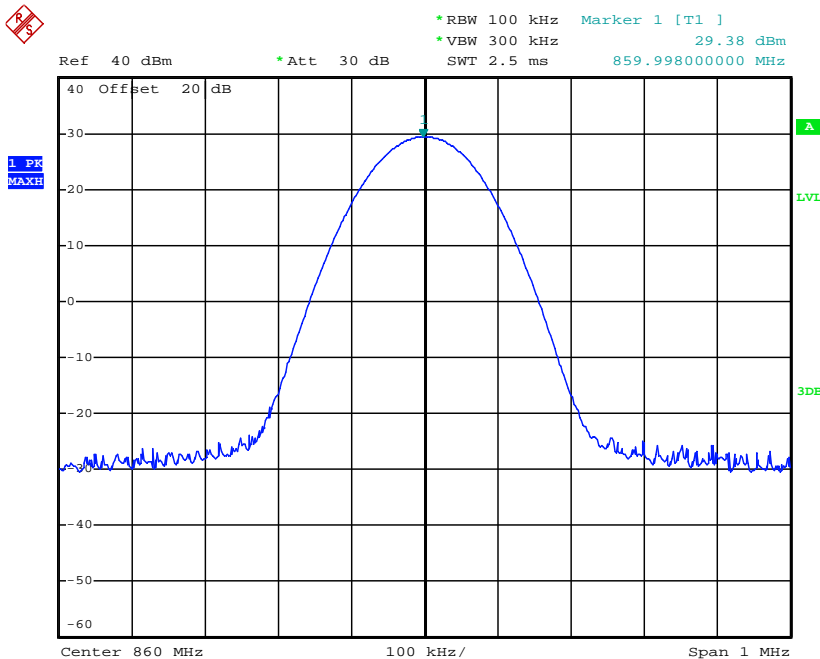
Date: 11.APR.2012 10:29:01

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 851.5000 | 1 | 29.29 | Varies | Complicance |



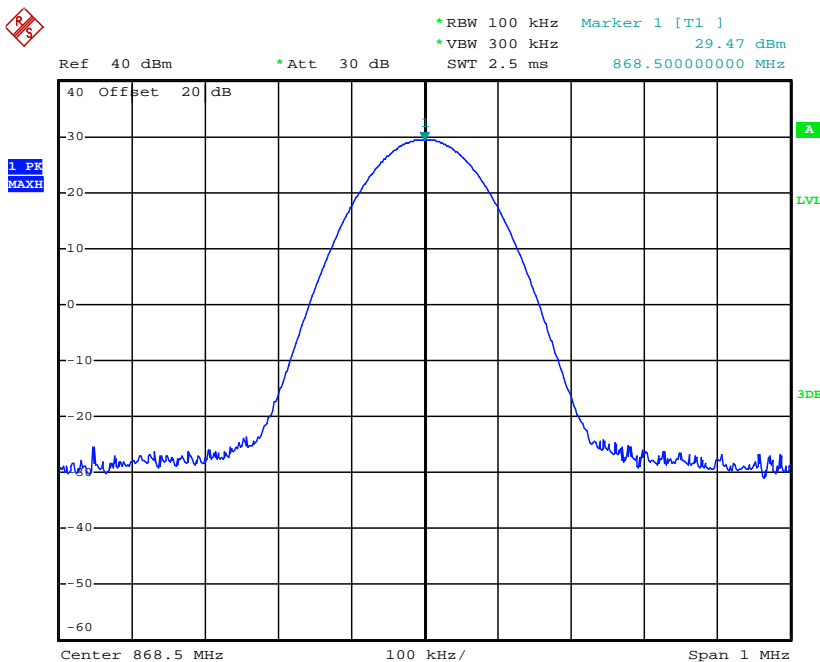
Date: 11.APR.2012 10:29:43

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 860.0000 | 1 | 29.38 | Varies | Complicance |



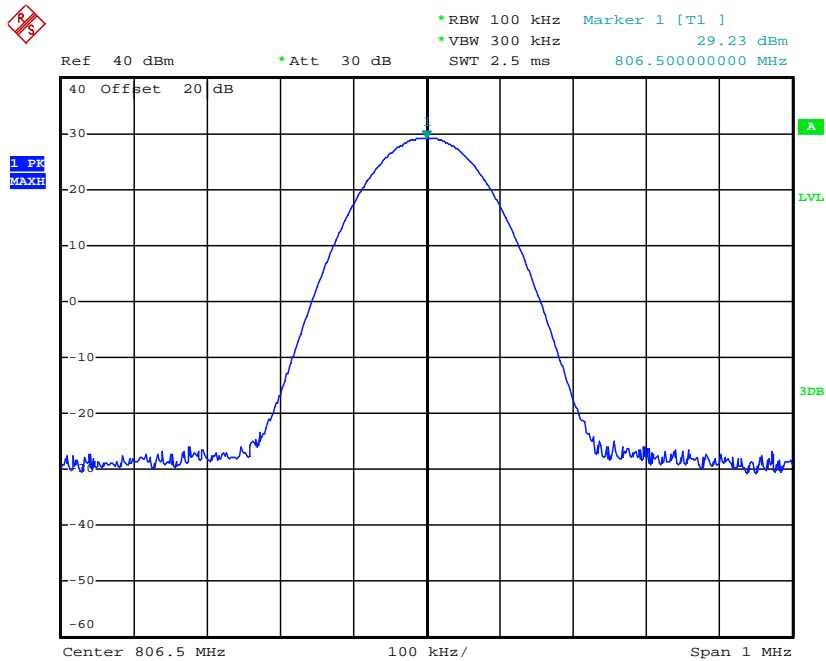
Date: 11.APR.2012 10:30:40

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 25 KHz | 868.5000 | 1 | 29.47 | Varies | Complicance |



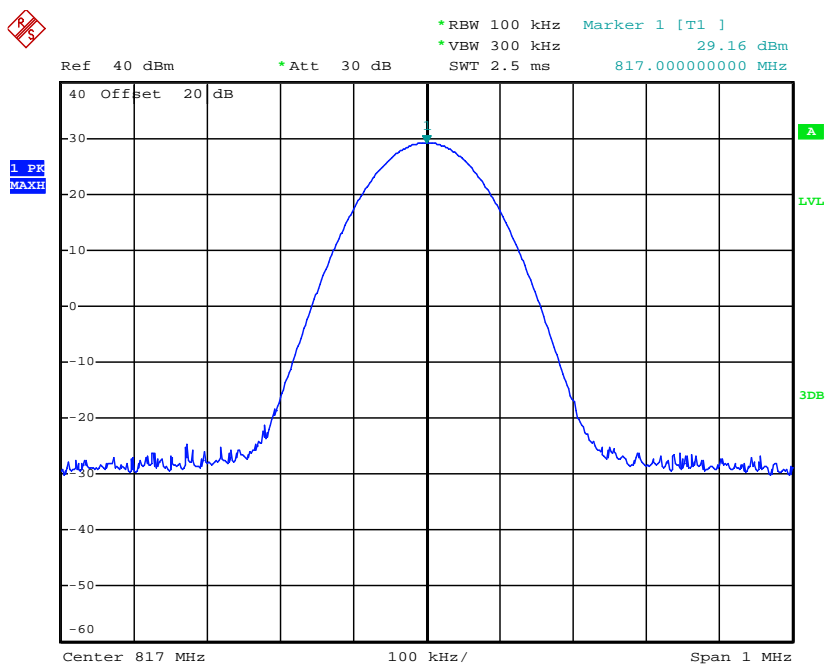
Date: 11.APR.2012 10:31:22

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 806.5000 | 1 | 29.29 | Varies | Complicance |



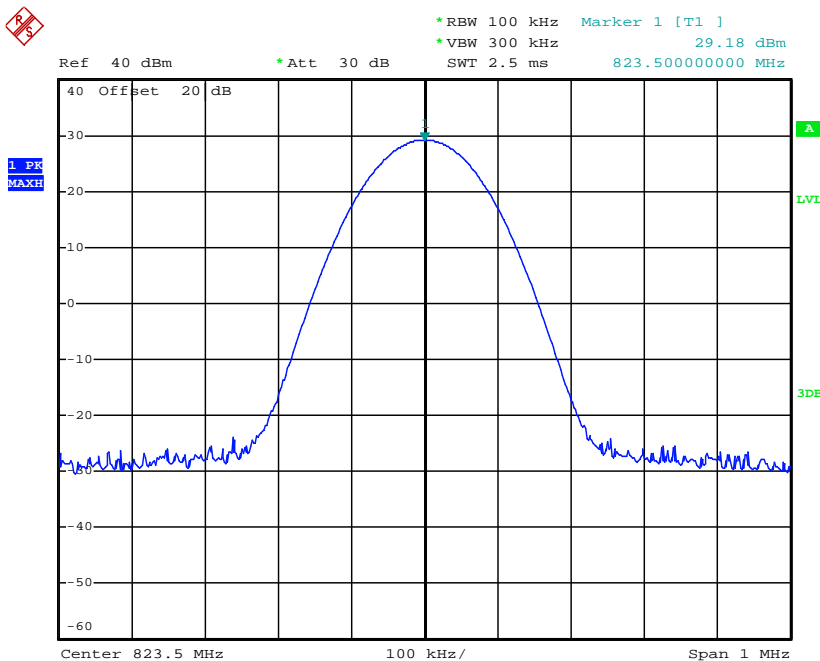
Date: 11.APR.2012 10:32:30

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 817.0000 | 1 | 29.16 | Varies | Complicance |



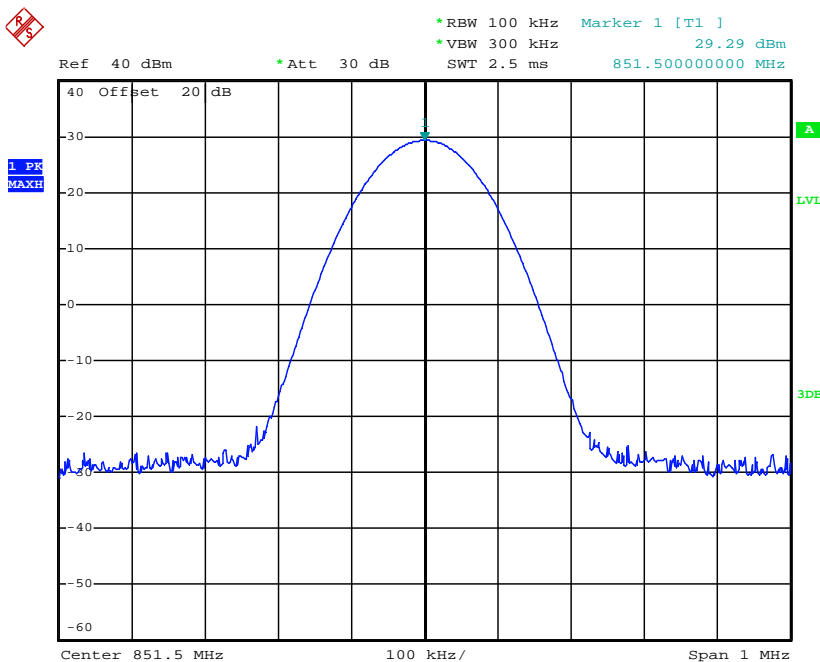
Date: 11.APR.2012 10:33:11

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 823.5000 | 1 | 29.18 | Varies | Complicance |



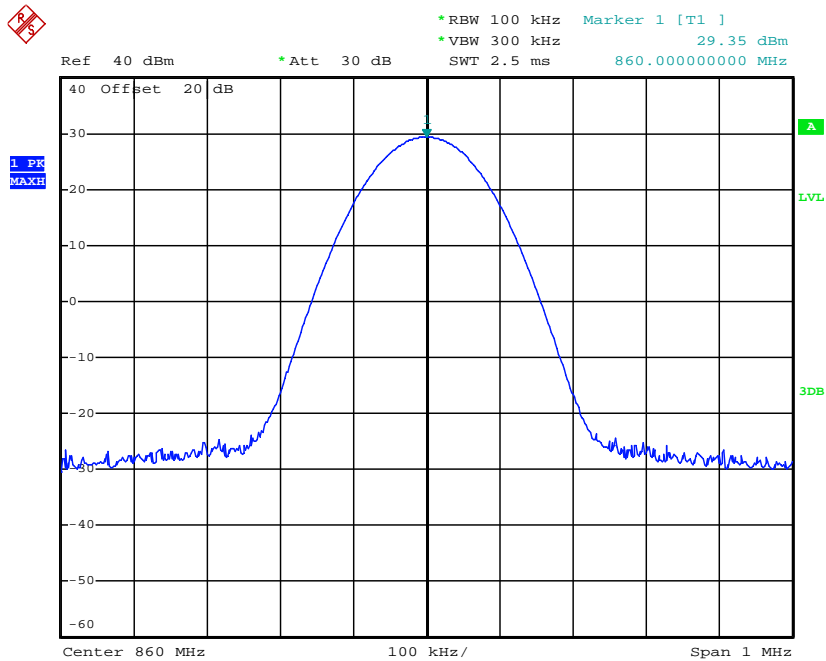
Date: 11.APR.2012 10:36:04

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 851.5000 | 1 | 29.29 | Varies | Complicance |



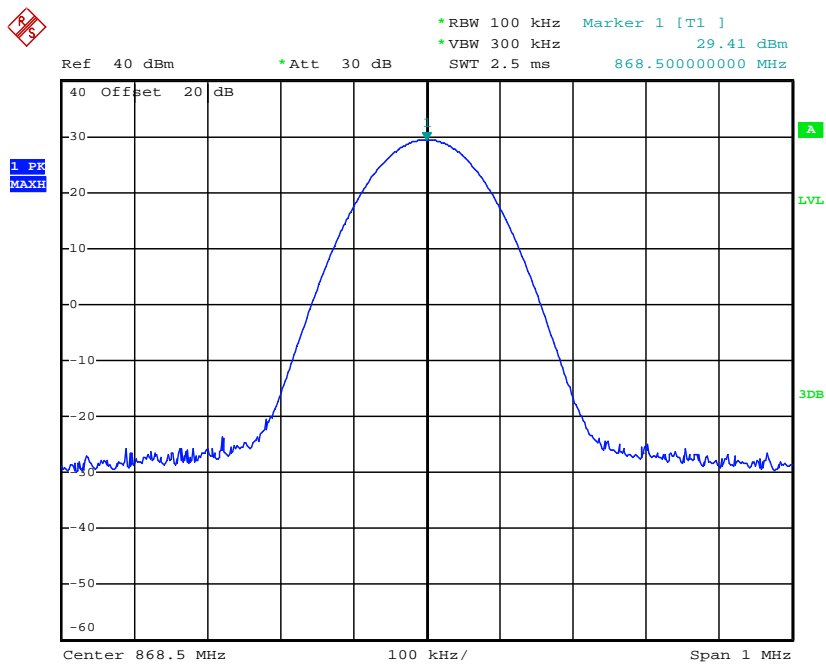
Date: 11.APR.2012 10:36:46

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 860.0000 | 1 | 29.35 | Varies | Complicance |



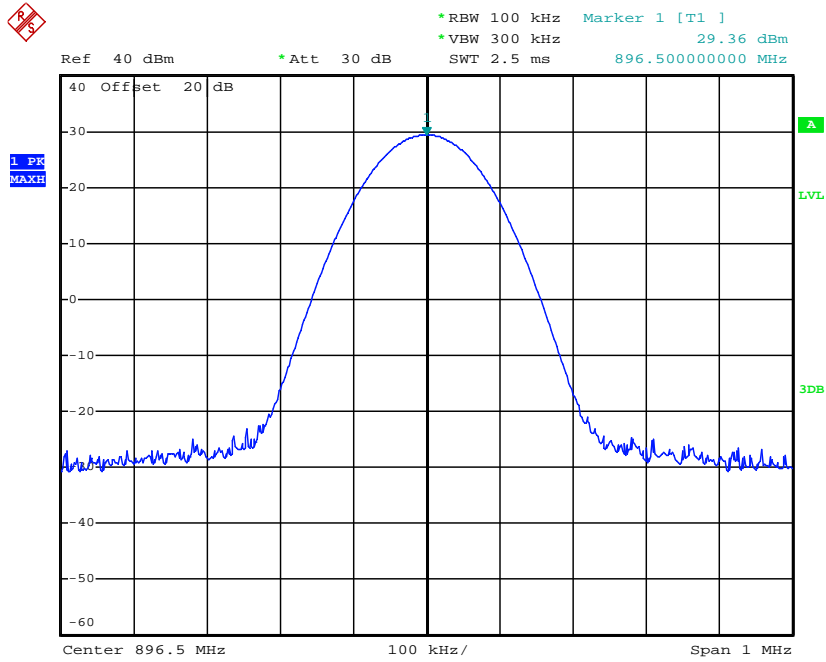
Date: 11.APR.2012 10:37:19

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 868.5000 | 1 | 29.41 | Varies | Complicance |



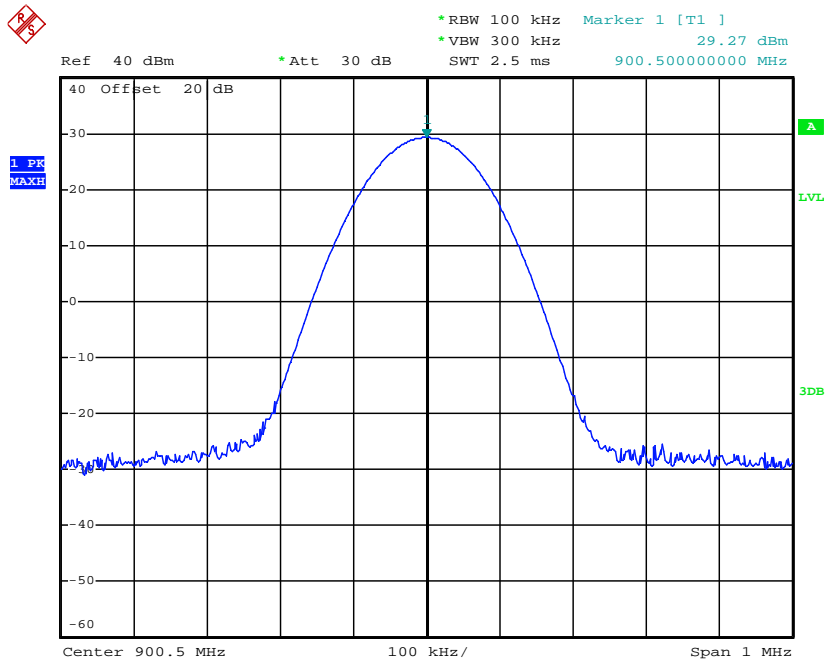
Date: 11.APR.2012 10:38:02

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 896.5000 | 1 | 29.36 | Varies | Complicance |



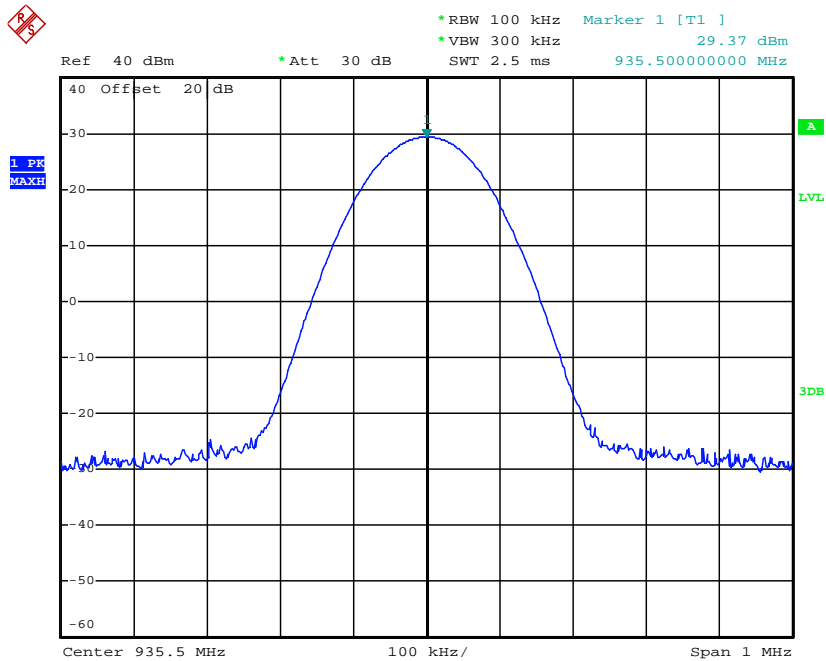
Date: 11.APR.2012 10:39:09

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 900.5000 | 1 | 29.27 | Varies | Complicance |



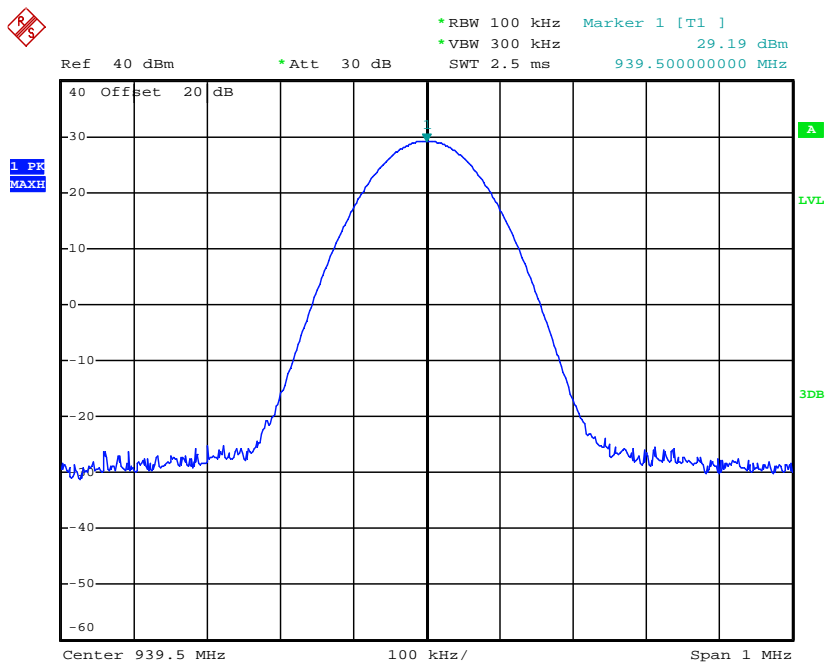
Date: 11.APR.2012 10:39:58

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 935.5000 | 1 | 29.37 | Varies | Complicance |



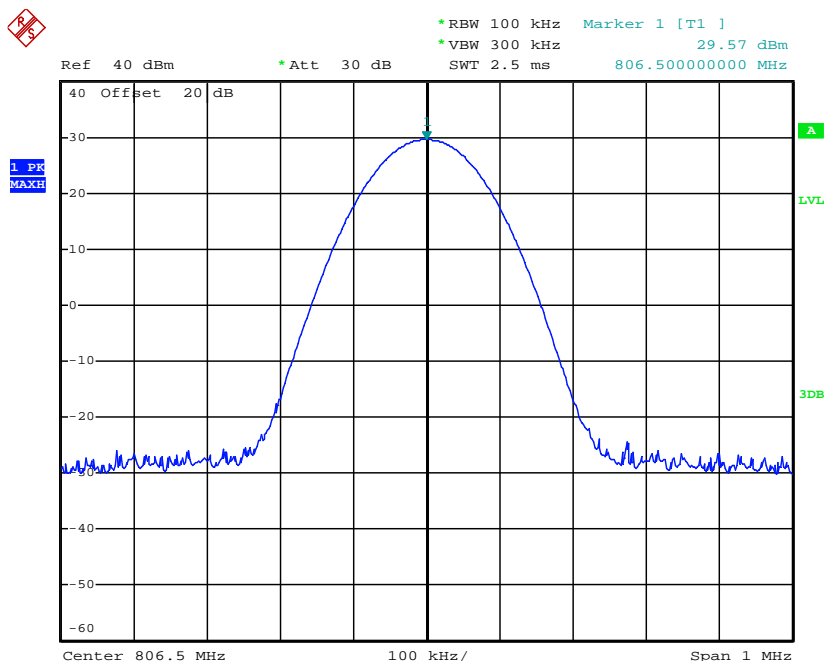
Date: 11.APR.2012 10:41:34

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| FM | 12.5 KHz | 939.5000 | 1 | 29.19 | Varies | Complicance |



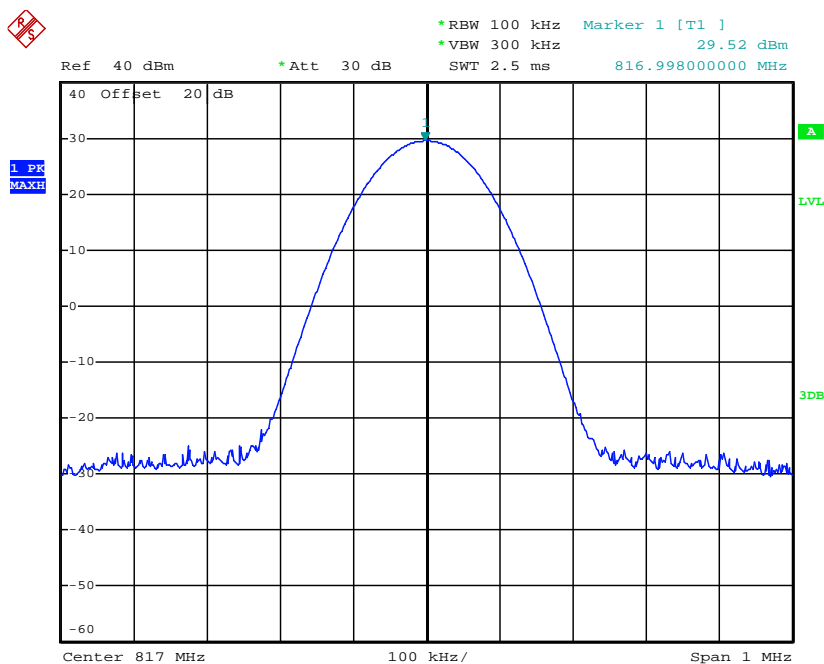
Date: 11.APR.2012 10:59:32

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|------------|
| 4FSK | 12.5 KHz | 806.5000 | 1 | 29.57 | Varies | Compliance |



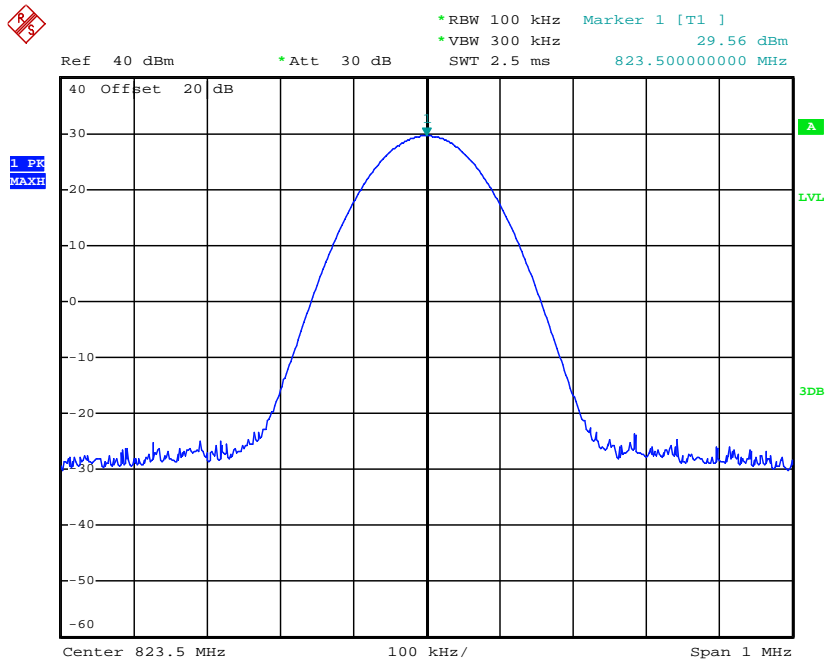
Date: 11.APR.2012 10:45:13

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|------------|
| 4FSK | 12.5 KHz | 817.0000 | 1 | 29.52 | Varies | Compliance |



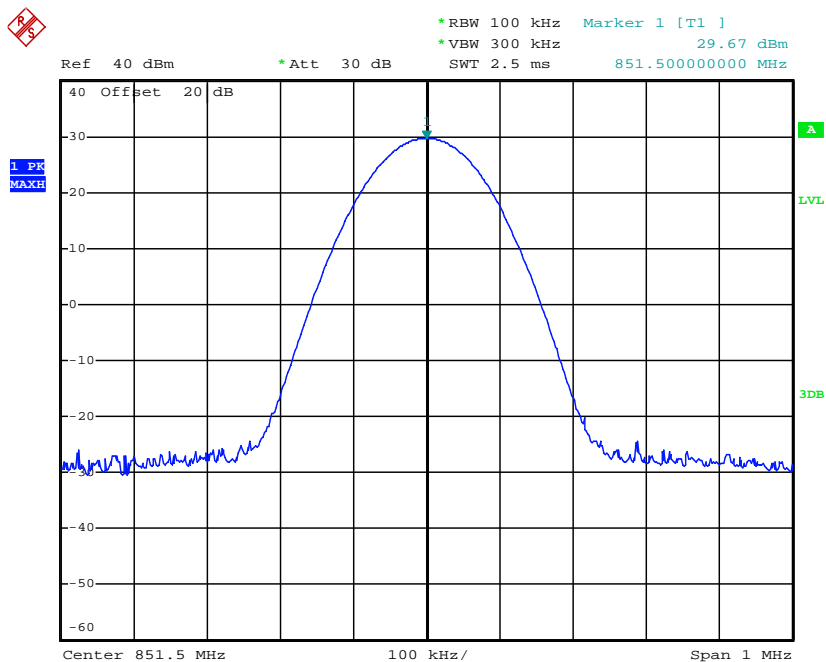
Date: 11.APR.2012 10:45:45

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 823.5000 | 1 | 29.56 | Varies | Complicance |



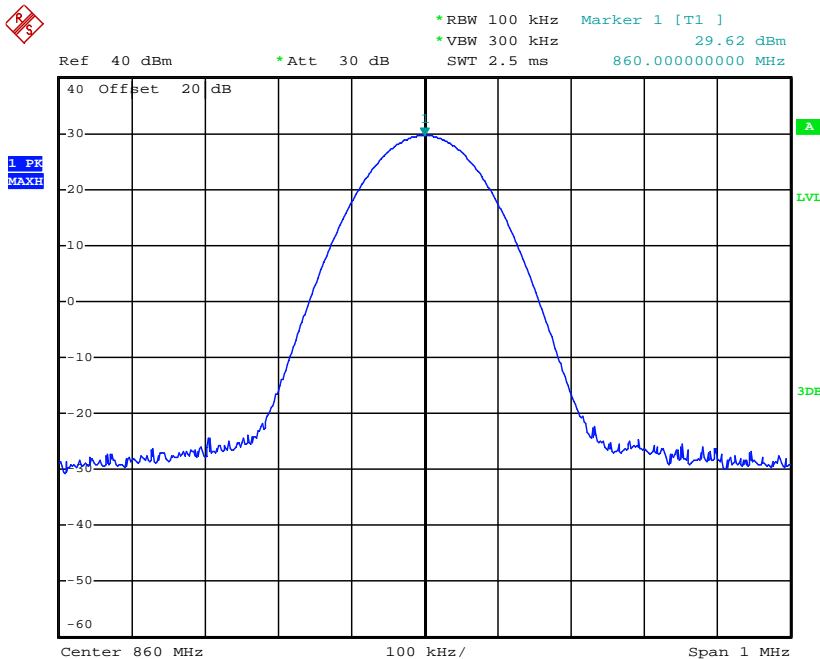
Date: 11.APR.2012 10:46:12

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 851.5000 | 1 | 29.67 | Varies | Complicance |



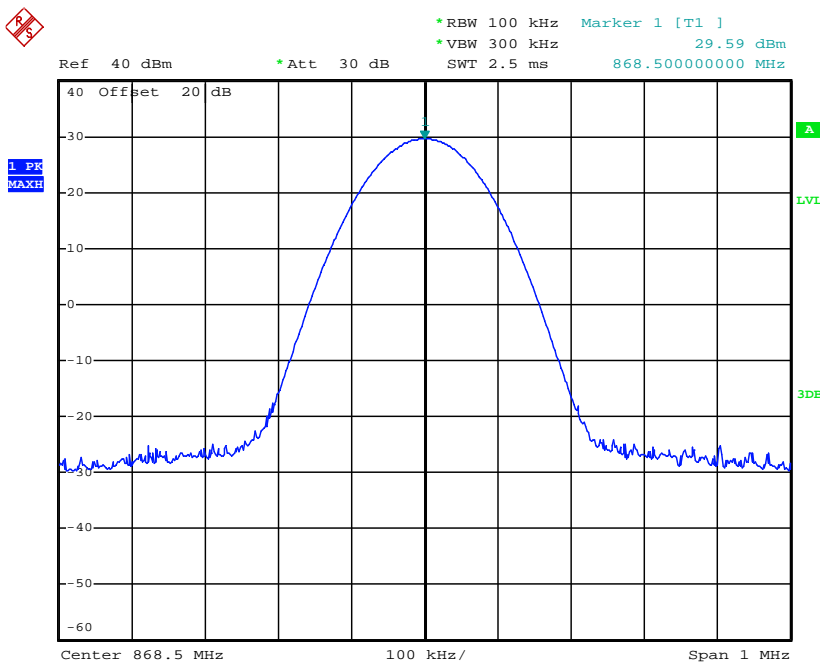
Date: 11.APR.2012 10:46:53

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 860.0000 | 1 | 29.62 | Varies | Complicance |



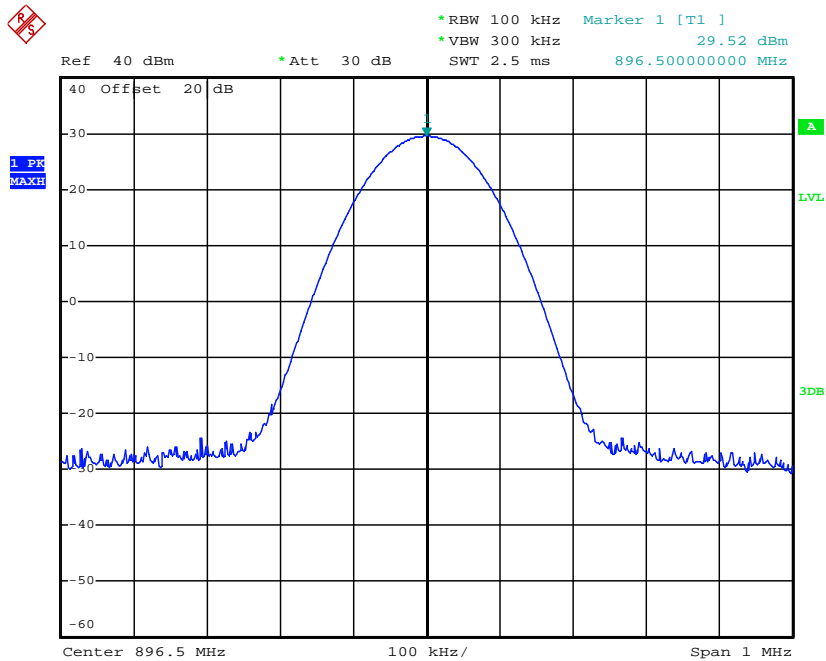
Date: 11.APR.2012 10:48:00

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 868.5000 | 1 | 29.59 | Varies | Complicance |



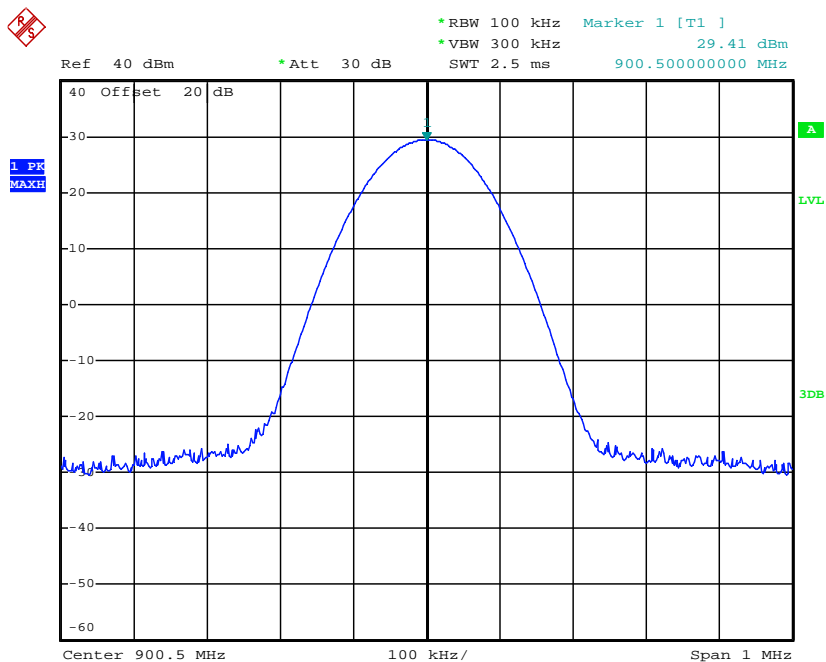
Date: 11.APR.2012 10:54:23

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 896.5000 | 1 | 29.52 | Varies | Complicance |



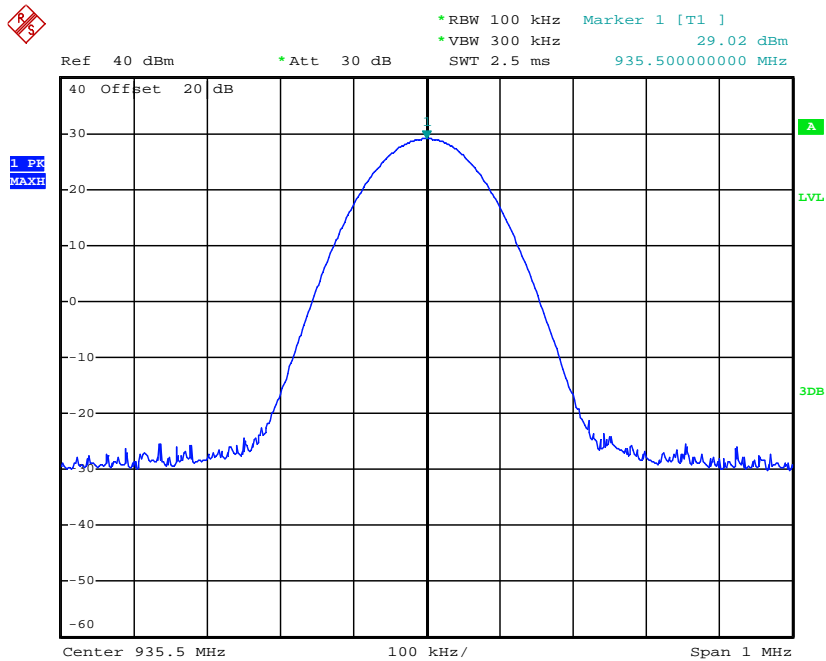
Date: 11.APR.2012 10:55:22

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 900.5000 | 1 | 29.41 | Varies | Complicance |



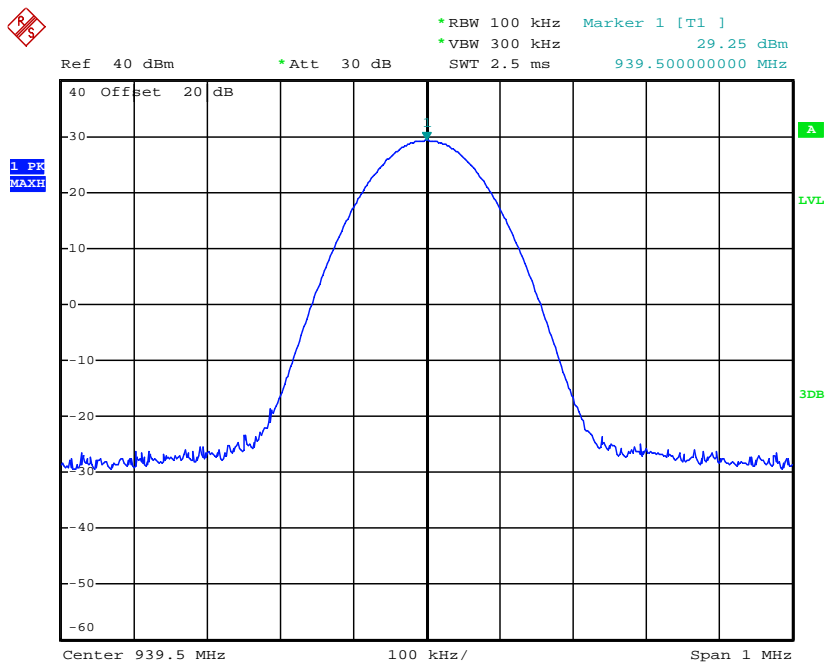
Date: 11.APR.2012 10:56:01

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 935.5000 | 1 | 29.02 | Varies | Complicance |



Date: 11.APR.2012 10:56:50

| Modulation Type | Channel Separation | Freq.(MHz) | Rated Power (Watt) | Measurement (dBm) | FCC Limit | Results |
|-----------------|--------------------|------------|--------------------|-------------------|-----------|-------------|
| 4FSK | 12.5 KHz | 939.5000 | 1 | 29.25 | Varies | Complicance |



Date: 11.APR.2012 10:57:57

4.8. Receiver Radiated Spurious Emission

TEST APPLICABLE

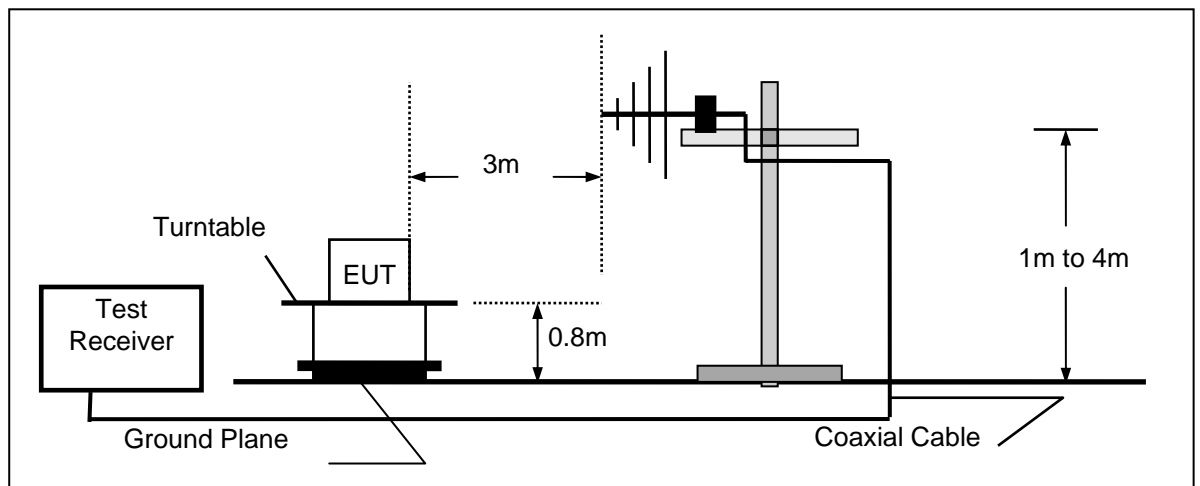
The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

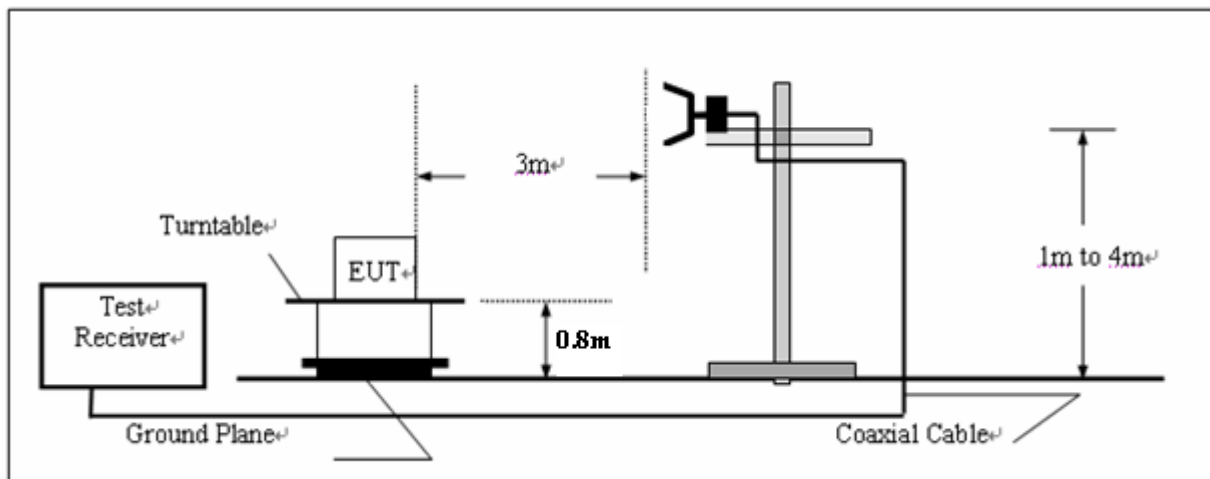
| | |
|---------------------------|--|
| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency below 1000MHz



(B) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

- 1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 2 Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
- 3 And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4 Repeat above procedures until all frequency measurements have been completed.

RECEIVER RADIATED SPOUIOUS LIMIT

For unintentional device, according to § 15.109(a) and RSS-Gen, except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency (MHz) | Distance (Meters) | Radiated (dB μ V/m) | Radiated (μ V/m) |
|--------------------|----------------------|----------------------------|--------------------------|
| 30-88 | 3 | 40.0 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

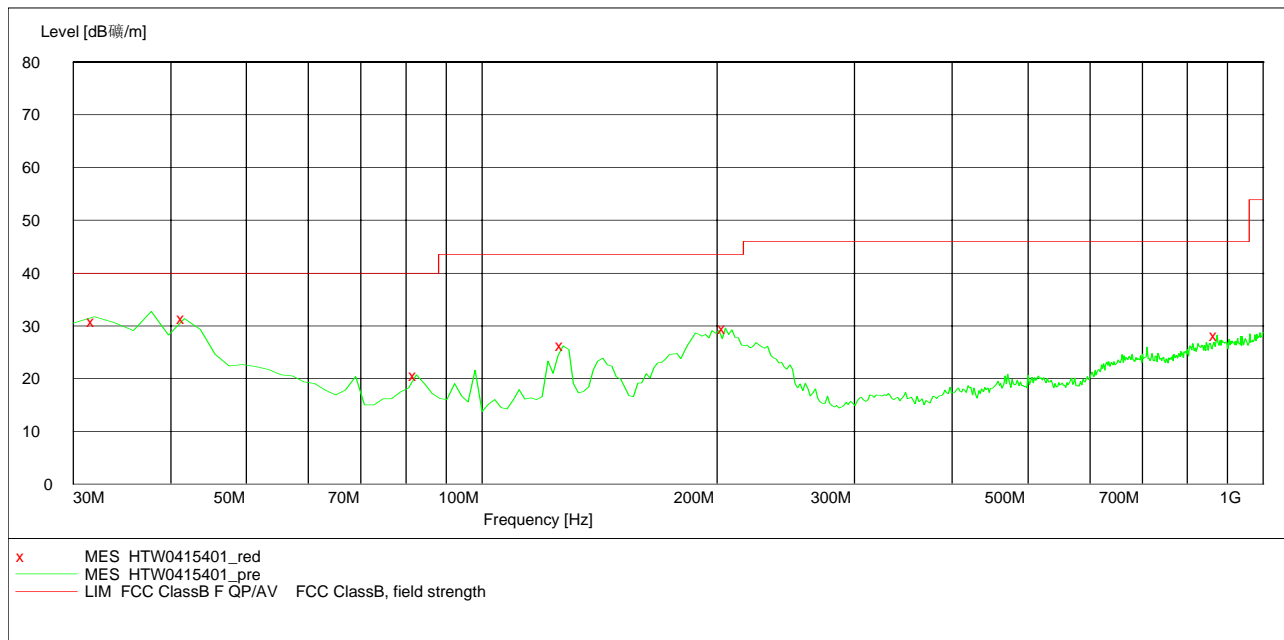
TEST RESULTS

The Radiated Measurement are performed to the five channels (the top channel, the middle channel and the bottom channel), the datum recorded below is the worst case for each channel separation;and the EUT shall be scanned from 30 MHz to the 5th harmonic of the highest oscillator frequency in the digital devices or 1 GHz whichever is higher.

| Modulation Type | Channel Separation | Test Frequency (MHz) | Polar. | Maximum Radiated Emissions | | FCC Limit (dBuV/m) |
|-----------------|--------------------|----------------------|------------|----------------------------|----------------|--------------------|
| | | | | Frequency (MHz) | Datum (dBuV/m) | |
| FM | 25 KHz | 806.5000 | H | 41.66 | 31.40 | 40.00 |
| | | | V | 33.99 | 30.80 | 40.00 |
| Test Results | | | Compliance | | | |

SWEEP TABLE: "test (30M-1G)"

Short Description: Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 30.0 MHz 1.0 GHz MaxPeak Coupled 120 kHz HL562 201106



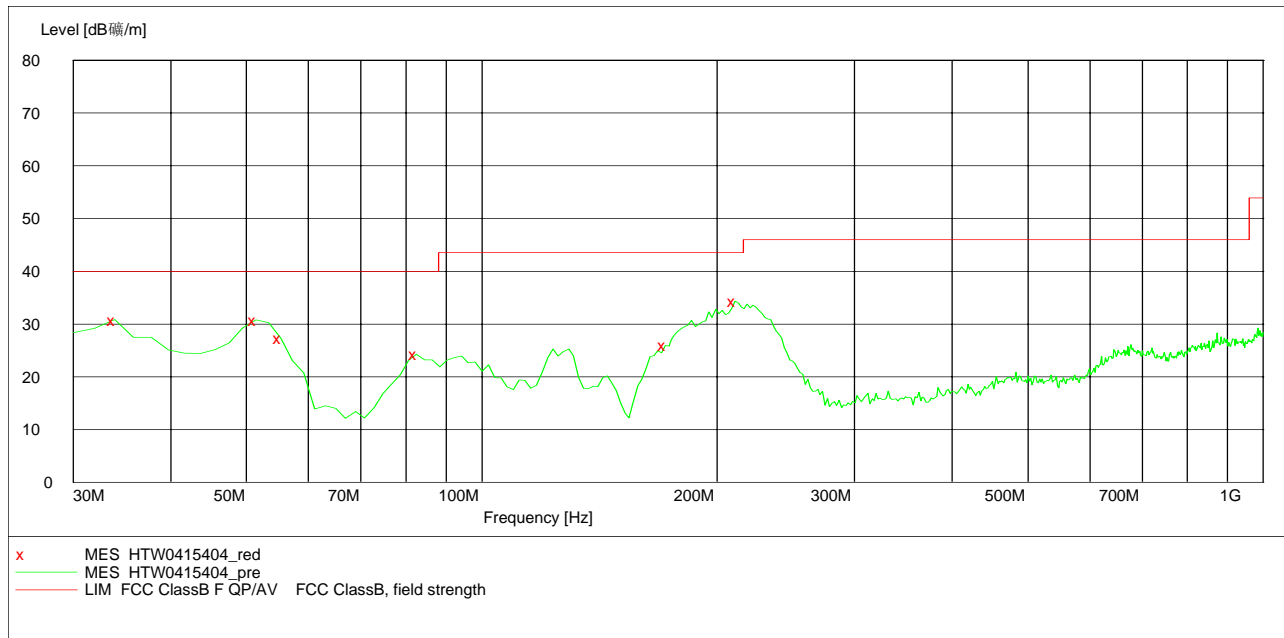
MEASUREMENT RESULT: "HTW0415401_red"

4/16/2012 8:27AM

| Frequency MHz | Level dBuV/m | Transd dB | Limit dBuV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|------|-----------|-------------|--------------|
| 31.943888 | 30.80 | -12.3 | 40.0 | 9.2 | Peak | 100.0 | 14.00 | HORIZONTAL |
| 41.663327 | 31.40 | -17.6 | 40.0 | 8.6 | Peak | 300.0 | 38.00 | HORIZONTAL |
| 82.484970 | 20.70 | -21.6 | 40.0 | 19.3 | Peak | 300.0 | 315.00 | HORIZONTAL |
| 127.194389 | 26.20 | -20.0 | 43.5 | 17.3 | Peak | 300.0 | 172.00 | HORIZONTAL |
| 204.949900 | 29.60 | -21.2 | 43.5 | 13.9 | Peak | 100.0 | 86.00 | HORIZONTAL |
| 873.647295 | 28.30 | -7.0 | 46.0 | 17.7 | Peak | 300.0 | 68.00 | HORIZONTAL |

SWEEP TABLE: "test (30M-1G)"

| | | | | | |
|--------------------|-----------|----------------|---------|---------|--------------|
| Short Description: | | Field Strength | | | |
| Start | Stop | Detector | Meas. | IF | Transducer |
| Frequency | Frequency | | Time | Bandw. | |
| 30.0 MHz | 1.0 GHz | MaxPeak | Coupled | 120 kHz | HL562 201106 |



MEASUREMENT RESULT: "HTW0415404_red"

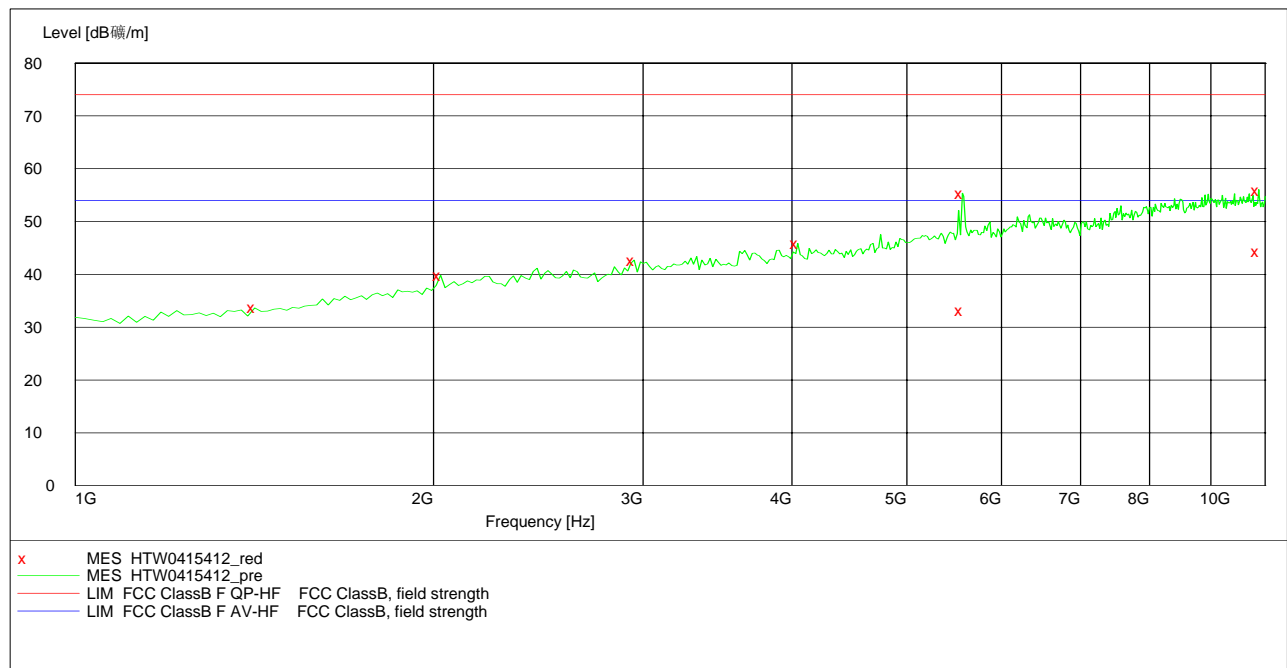
4/15/2012 7:35PM

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| 33.887776 | 30.80 | -13.3 | 40.0 | 9.2 | Peak | 100.0 | 139.00 | VERTICAL |
| 51.382766 | 30.80 | -22.8 | 40.0 | 9.2 | Peak | 100.0 | 314.00 | VERTICAL |
| 55.270541 | 27.30 | -23.9 | 40.0 | 12.7 | Peak | 100.0 | 314.00 | VERTICAL |
| 82.484970 | 24.30 | -21.6 | 40.0 | 15.7 | Peak | 100.0 | 86.00 | VERTICAL |
| 171.903808 | 25.90 | -23.2 | 43.5 | 17.6 | Peak | 100.0 | 145.00 | VERTICAL |
| 210.781563 | 34.30 | -20.8 | 43.5 | 9.2 | Peak | 100.0 | 139.00 | VERTICAL |

| Modulation Type | Channel Separation | Test Frequency (MHz) | Polar. | Maximum Radiated Emissions | | FCC Limit (dBuV/m) |
|-----------------|--------------------|----------------------|------------|----------------------------|----------------|--------------------|
| | | | | Frequency (MHz) | Datum (dBuV/m) | |
| FM | 25 KHz | 806.5000 | H | 9873.74 | 44.30 | 54.00 |
| | | | V | 9963.93 | 45.30 | 54.00 |
| Test Results | | | Compliance | | | |

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



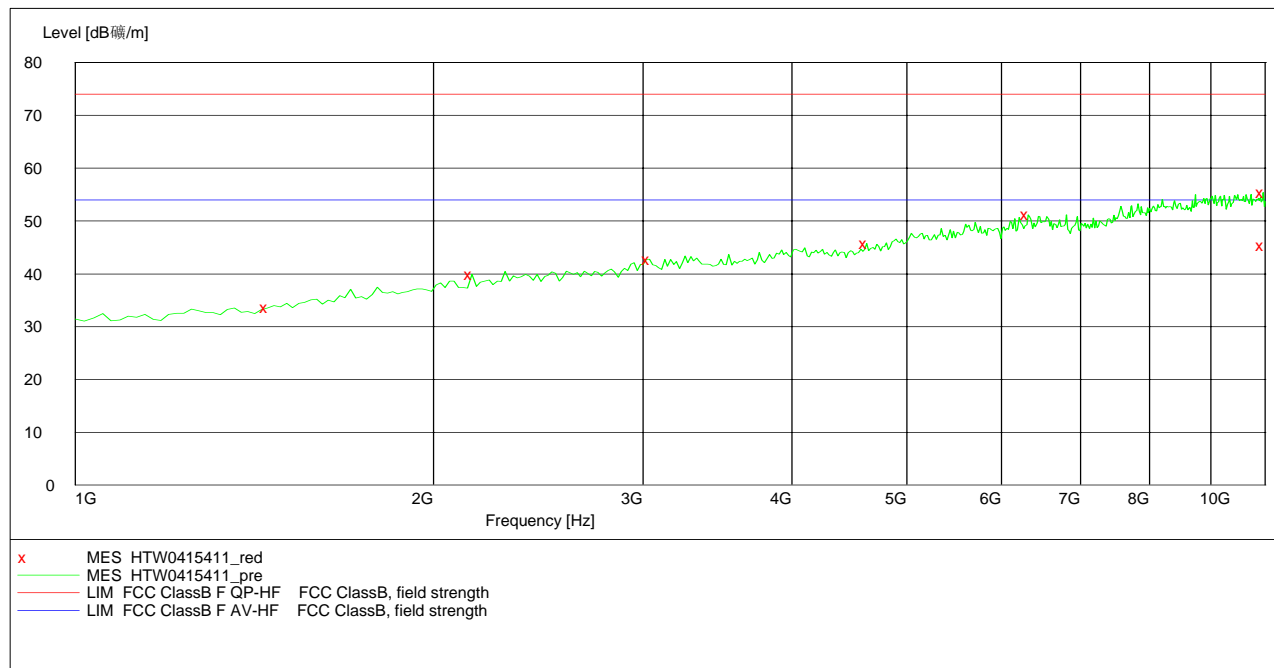
MEASUREMENT RESULT: "HTW0415412_red"

4/16/2012 8:42AM

| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|------|-----------|-------------|--------------|
| 1414.829659 | 33.70 | -24.1 | 54.0 | 20.3 | Peak | 100.0 | 139.00 | HORIZONTAL |
| 2028.056112 | 39.90 | -19.4 | 54.0 | 14.1 | Peak | 100.0 | 272.00 | HORIZONTAL |
| 2947.895792 | 42.70 | -15.5 | 54.0 | 11.3 | Peak | 100.0 | 278.00 | HORIZONTAL |
| 4048.096192 | 45.90 | -12.9 | 54.0 | 8.1 | Peak | 100.0 | 86.00 | HORIZONTAL |
| 5563.126253 | 55.40 | -9.9 | 74.0 | 18.6 | Peak | 100.0 | 118.00 | HORIZONTAL |
| 5563.126253 | 33.20 | -9.9 | 54.0 | 20.8 | AV | 100.0 | 118.00 | HORIZONTAL |
| 9873.747495 | 56.00 | -2.1 | 74.0 | 18.0 | Peak | 100.0 | 320.00 | HORIZONTAL |
| 9873.747495 | 44.30 | -2.1 | 54.0 | 9.7 | AV | 100.0 | 320.00 | HORIZONTAL |

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "HTW0415411_red"

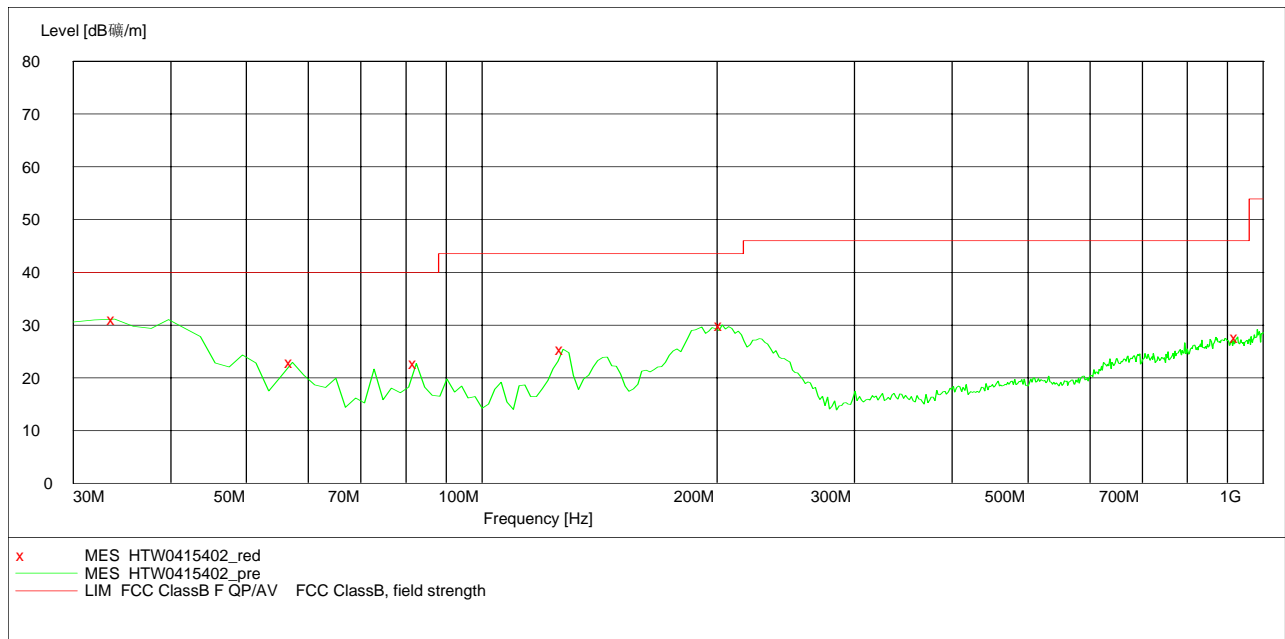
4/16/2012 8:40AM

| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| 1450.901804 | 33.60 | -23.9 | 54.0 | 20.4 | Peak | 100.0 | 196.00 | VERTICAL |
| 2154.308617 | 39.90 | -18.7 | 54.0 | 14.1 | Peak | 100.0 | 51.00 | VERTICAL |
| 3038.076152 | 42.80 | -15.2 | 54.0 | 11.2 | Peak | 100.0 | 86.00 | VERTICAL |
| 4625.250501 | 45.70 | -12.6 | 54.0 | 8.3 | Peak | 100.0 | 269.00 | VERTICAL |
| 6320.641283 | 51.20 | -8.4 | 54.0 | 2.8 | Peak | 100.0 | 134.00 | VERTICAL |
| 9963.927856 | 55.40 | -2.2 | 74.0 | 18.6 | Peak | 100.0 | 145.00 | VERTICAL |
| 9963.927856 | 45.30 | -2.2 | 54.0 | 8.7 | AV | 100.0 | 145.00 | VERTICAL |

| Modulation Type | Channel Separation | Test Frequency (MHz) | Polar. | Maximum Radiated Emissions | | FCC Limit (dBuV/m) |
|-----------------|--------------------|----------------------|------------|----------------------------|----------------|--------------------|
| | | | | Frequency (MHz) | Datum (dBuV/m) | |
| FM | 12.5 KHz | 806.5000 | H | 33.89 | 31.10 | 40.00 |
| | | | V | 30.00 | 32.50 | 40.00 |
| Test Results | | | Compliance | | | |

SWEEP TABLE: "test (30M-1G)"

Short Description: Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 30.0 MHz 1.0 GHz MaxPeak Coupled 120 kHz HL562 201106



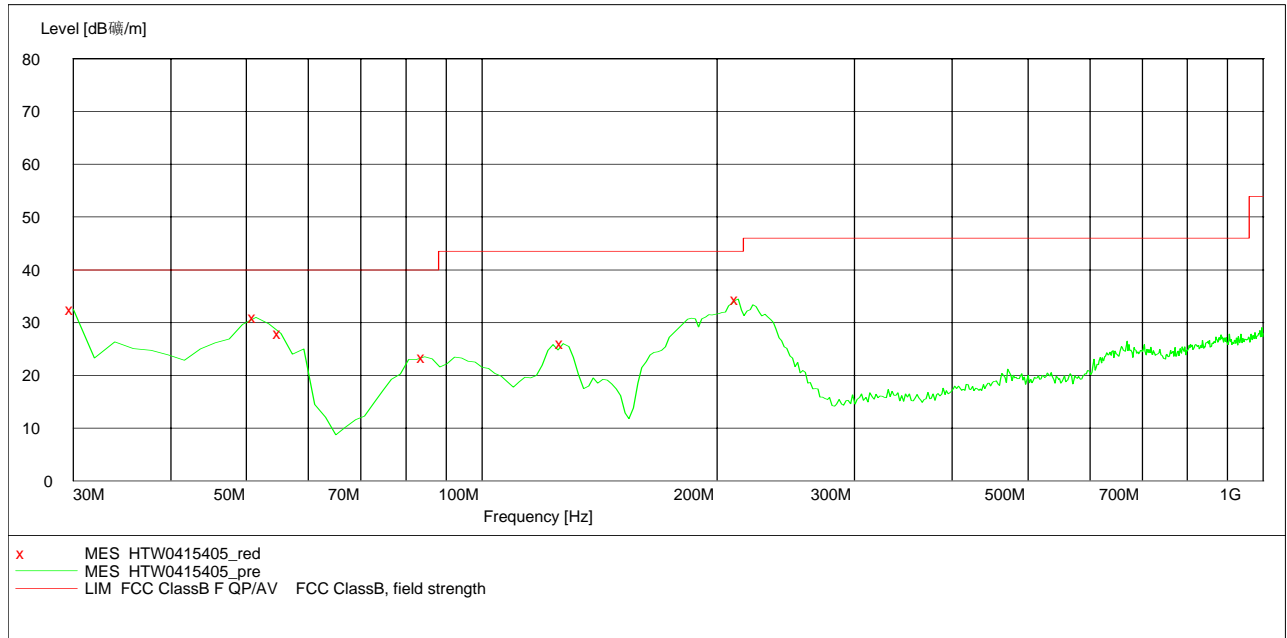
MEASUREMENT RESULT: "HTW0415402_red"

4/16/2012 8:29AM

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|------|-----------|-------------|--------------|
| 33.887776 | 31.10 | -13.3 | 40.0 | 8.9 | Peak | 300.0 | 262.00 | HORIZONTAL |
| 57.214429 | 22.90 | -24.6 | 40.0 | 17.1 | Peak | 300.0 | 63.00 | HORIZONTAL |
| 82.484970 | 22.70 | -21.6 | 40.0 | 17.3 | Peak | 300.0 | 188.00 | HORIZONTAL |
| 127.194389 | 25.40 | -20.0 | 43.5 | 18.1 | Peak | 300.0 | 161.00 | HORIZONTAL |
| 203.006012 | 30.00 | -21.3 | 43.5 | 13.5 | Peak | 100.0 | 74.00 | HORIZONTAL |
| 928.076152 | 27.70 | -7.1 | 46.0 | 18.3 | Peak | 300.0 | 18.00 | HORIZONTAL |

SWEEP TABLE: "test (30M-1G)"

| | | | | | |
|--------------------|-----------|----------------|---------|---------|--------------|
| Short Description: | | Field Strength | | | |
| Start | Stop | Detector | Meas. | IF | Transducer |
| Frequency | Frequency | | Time | Bandw. | |
| 30.0 MHz | 1.0 GHz | MaxPeak | Coupled | 120 kHz | HL562 201106 |



MEASUREMENT RESULT: "HTW0415405_red"

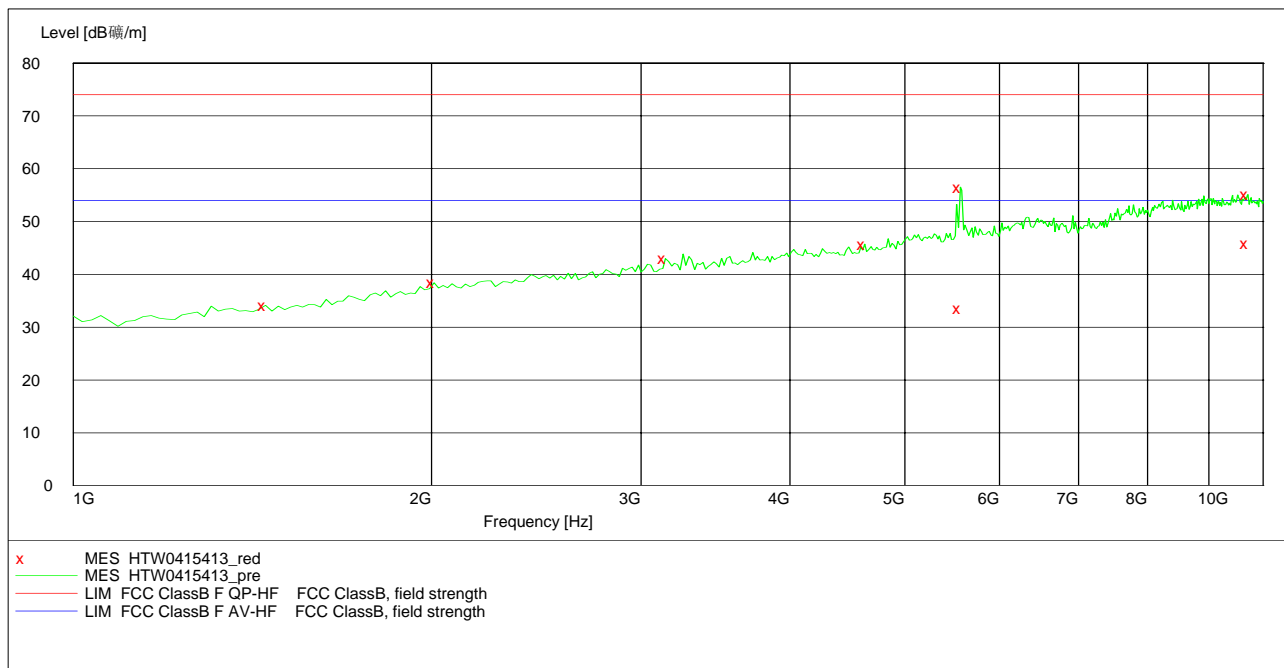
4/15/2012 7:37PM

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| 30.000000 | 32.50 | -11.3 | 40.0 | 7.5 | Peak | 100.0 | 92.00 | VERTICAL |
| 51.382766 | 31.00 | -22.8 | 40.0 | 9.0 | Peak | 100.0 | 349.00 | VERTICAL |
| 55.270541 | 28.00 | -23.9 | 40.0 | 12.0 | Peak | 100.0 | 357.00 | VERTICAL |
| 84.428858 | 23.50 | -21.2 | 40.0 | 16.5 | Peak | 100.0 | 81.00 | VERTICAL |
| 127.194389 | 26.00 | -20.0 | 43.5 | 17.5 | Peak | 100.0 | 228.00 | VERTICAL |
| 212.725451 | 34.50 | -20.8 | 43.5 | 9.0 | Peak | 100.0 | 148.00 | VERTICAL |

| Modulation Type | Channel Separation | Test Frequency (MHz) | Polar. | Maximum Radiated Emissions | | FCC Limit (dBuV/m) |
|-----------------|--------------------|----------------------|------------|----------------------------|----------------|--------------------|
| | | | | Frequency (MHz) | Datum (dBuV/m) | |
| FM | 12.5 KHz | 806.5000 | H | 9711.42 | 45.90 | 54.00 |
| | | | V | 9549.10 | 44.80 | 54.00 |
| Test Results | | | Compliance | | | |

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



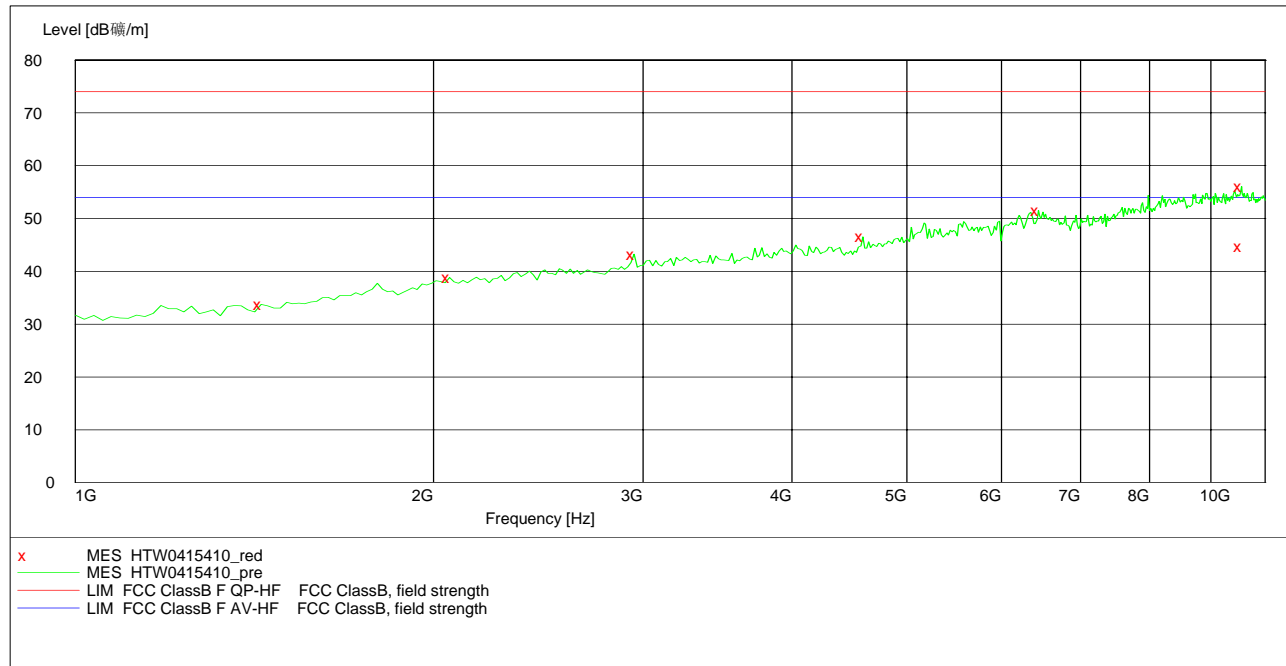
MEASUREMENT RESULT: "HTW0415413_red"

4/16/2012 8:44AM

| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|------|-----------|-------------|--------------|
| 1450.901804 | 34.20 | -23.9 | 54.0 | 19.8 | Peak | 100.0 | 24.00 | HORIZONTAL |
| 2010.020040 | 38.50 | -19.5 | 54.0 | 15.5 | Peak | 100.0 | 154.00 | HORIZONTAL |
| 3146.292585 | 43.00 | -15.0 | 54.0 | 11.0 | Peak | 100.0 | 181.00 | HORIZONTAL |
| 4625.250501 | 45.70 | -12.6 | 54.0 | 8.3 | Peak | 100.0 | 45.00 | HORIZONTAL |
| 5563.126253 | 56.50 | -9.9 | 74.0 | 17.5 | Peak | 100.0 | 71.00 | HORIZONTAL |
| 5563.126253 | 33.60 | -9.9 | 54.0 | 20.4 | AV | 100.0 | 71.00 | HORIZONTAL |
| 9711.422846 | 55.10 | -1.8 | 74.0 | 18.9 | Peak | 100.0 | 51.00 | HORIZONTAL |
| 9711.422846 | 45.90 | -1.8 | 54.0 | 8.1 | AV | 100.0 | 51.00 | HORIZONTAL |

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "HTW0415410_red"

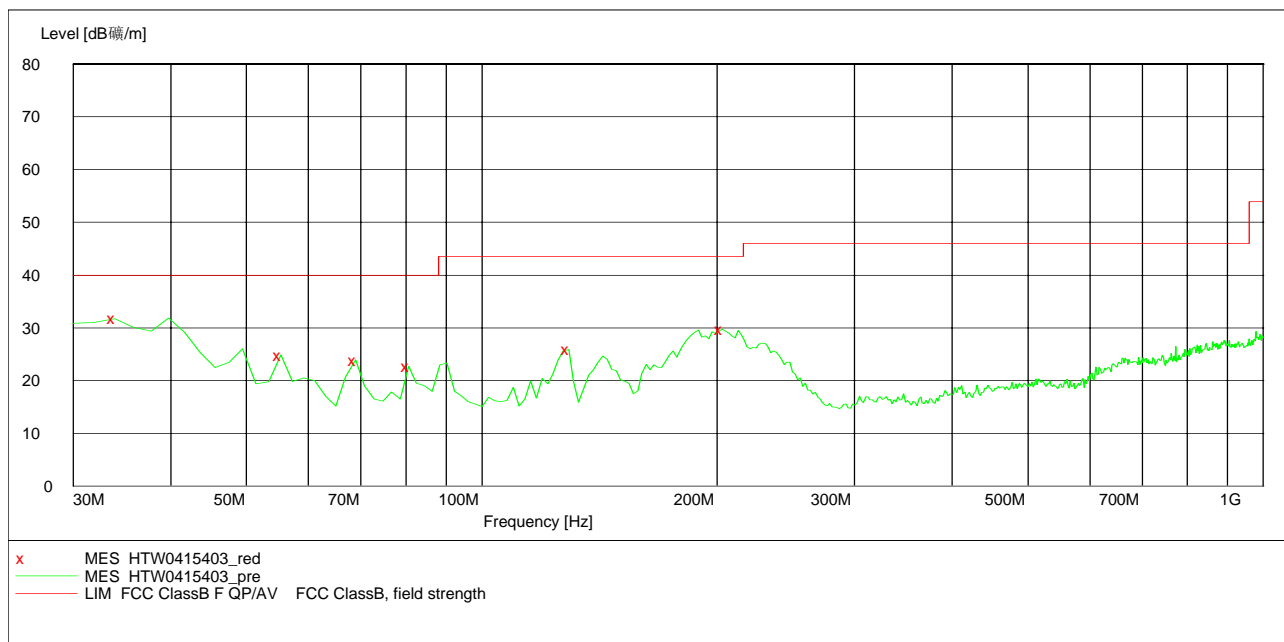
4/16/2012 8:38AM

| Frequency | Level | Transd | Limit | Margin | Det. | Height | Azimuth | Polarization |
|-------------|--------|--------|--------|--------|------|--------|---------|--------------|
| MHz | dBμV/m | dB | dBμV/m | dB | | cm | deg | |
| 1432.865731 | 33.70 | -24.0 | 54.0 | 20.3 | Peak | 100.0 | 278.00 | VERTICAL |
| 2064.128257 | 38.80 | -19.2 | 54.0 | 15.2 | Peak | 100.0 | 211.00 | VERTICAL |
| 2947.895792 | 43.30 | -15.5 | 54.0 | 10.7 | Peak | 100.0 | 211.00 | VERTICAL |
| 4589.178357 | 46.60 | -12.7 | 54.0 | 7.4 | Peak | 100.0 | 51.00 | VERTICAL |
| 6446.893788 | 51.50 | -8.0 | 54.0 | 2.5 | Peak | 100.0 | 57.00 | VERTICAL |
| 9549.098196 | 56.10 | -1.6 | 74.0 | 17.9 | Peak | 100.0 | 237.00 | VERTICAL |
| 9549.098196 | 44.80 | -1.6 | 54.0 | 9.2 | AV | 100.0 | 237.00 | VERTICAL |

| Modulation Type | Channel Separation | Test Frequency (MHz) | Polar. | Maximum Radiated Emissions | | FCC Limit (dBuV/m) |
|-----------------|--------------------|----------------------|------------|----------------------------|----------------|--------------------|
| | | | | Frequency (MHz) | Datum (dBuV/m) | |
| 4FSK | 12.5 KHz | 806.5000 | H | 33.89 | 31.70 | 40.00 |
| | | | V | 31.94 | 32.10 | 40.00 |
| Test Results | | | Compliance | | | |

SWEEP TABLE: "test (30M-1G)"

Short Description: Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 30.0 MHz 1.0 GHz MaxPeak Coupled 120 kHz HL562 201106



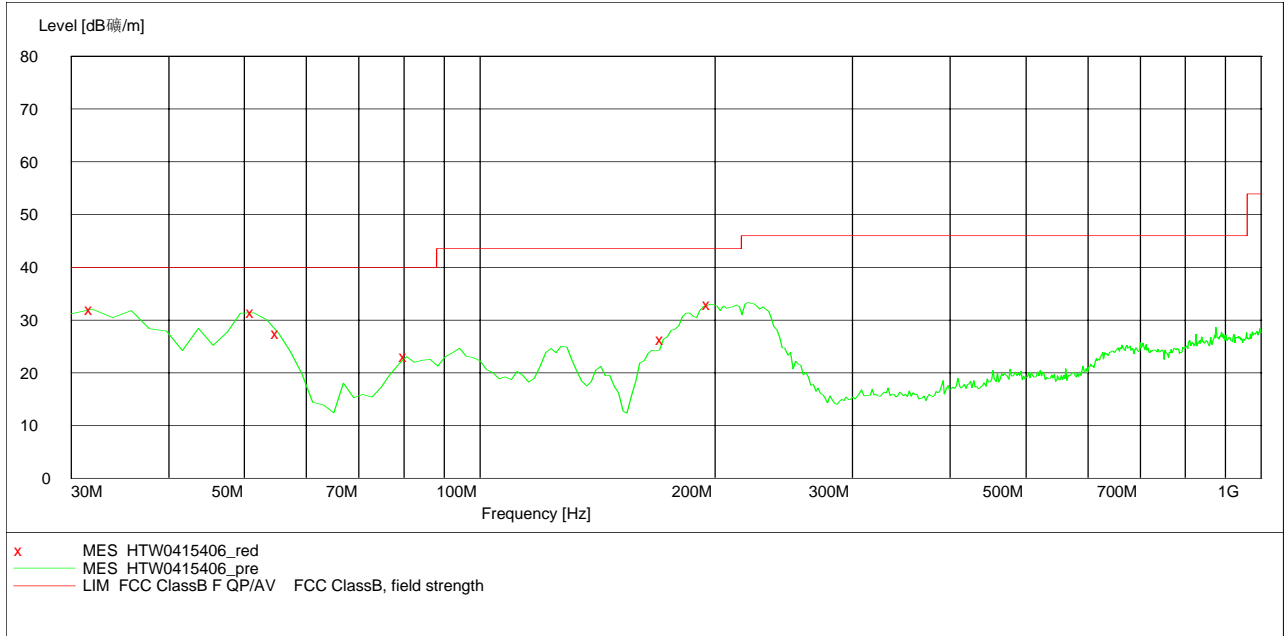
MEASUREMENT RESULT: "HTW0415403_red"

4/16/2012 8:29AM

| Frequency MHz | Level dBuV/m | Transd dB | Limit dBuV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|------|-----------|-------------|--------------|
| 33.887776 | 31.70 | -13.3 | 40.0 | 8.3 | Peak | 100.0 | 57.00 | HORIZONTAL |
| 55.270541 | 24.90 | -23.9 | 40.0 | 15.1 | Peak | 100.0 | 125.00 | HORIZONTAL |
| 68.877756 | 23.90 | -23.3 | 40.0 | 16.1 | Peak | 300.0 | 200.00 | HORIZONTAL |
| 80.541082 | 22.70 | -22.1 | 40.0 | 17.3 | Peak | 300.0 | 289.00 | HORIZONTAL |
| 129.138277 | 25.90 | -20.3 | 43.5 | 17.6 | Peak | 300.0 | 159.00 | HORIZONTAL |
| 203.006012 | 29.80 | -21.3 | 43.5 | 13.7 | Peak | 100.0 | 90.00 | HORIZONTAL |

SWEEP TABLE: "test (30M-1G)"

| | | | | | |
|--------------------|-----------|----------------|------------|-----------|--------------|
| Short Description: | | Field Strength | | | |
| Start | Stop | Detector | Meas. Time | IF Bandw. | Transducer |
| Frequency | Frequency | | | | |
| 30.0 MHz | 1.0 GHz | MaxPeak | Coupled | 120 kHz | HL562 201106 |



MEASUREMENT RESULT: "HTW0415406_red"

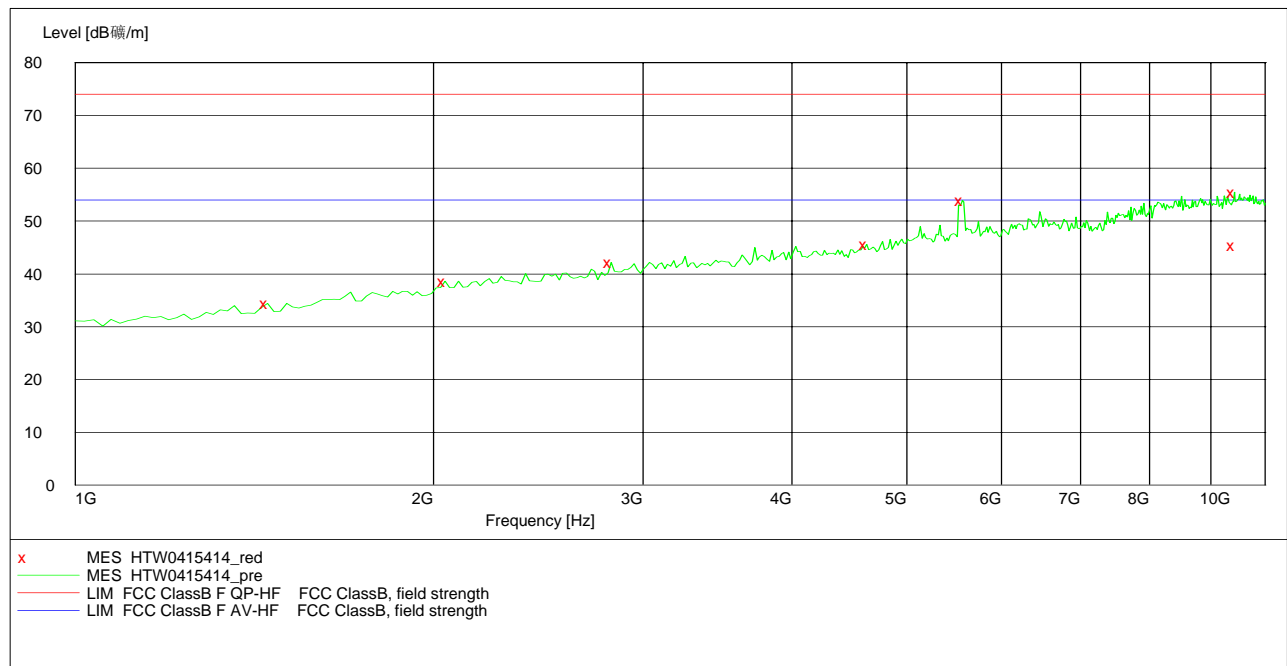
4/16/2012 8:32AM

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| 31.943888 | 32.10 | -12.3 | 40.0 | 7.9 | Peak | 100.0 | 340.00 | VERTICAL |
| 51.382766 | 31.40 | -22.8 | 40.0 | 8.6 | Peak | 100.0 | 334.00 | VERTICAL |
| 55.270541 | 27.40 | -23.9 | 40.0 | 12.6 | Peak | 100.0 | 359.00 | VERTICAL |
| 80.541082 | 23.10 | -22.1 | 40.0 | 16.9 | Peak | 100.0 | 86.00 | VERTICAL |
| 171.903808 | 26.40 | -23.2 | 43.5 | 17.1 | Peak | 100.0 | 113.00 | VERTICAL |
| 197.174349 | 33.00 | -21.6 | 43.5 | 10.5 | Peak | 100.0 | 139.00 | VERTICAL |

| Modulation Type | Channel Separation | Test Frequency (MHz) | Polar. | Maximum Radiated Emissions | | FCC Limit (dBuV/m) |
|-----------------|--------------------|----------------------|------------|----------------------------|----------------|--------------------|
| | | | | Frequency (MHz) | Datum (dBuV/m) | |
| 4FSK | 12.5 KHz | 806.5000 | H | 9422.85 | 45.40 | 54.00 |
| | | | V | 9657.31 | 45.00 | 54.00 |
| Test Results | | | Compliance | | | |

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



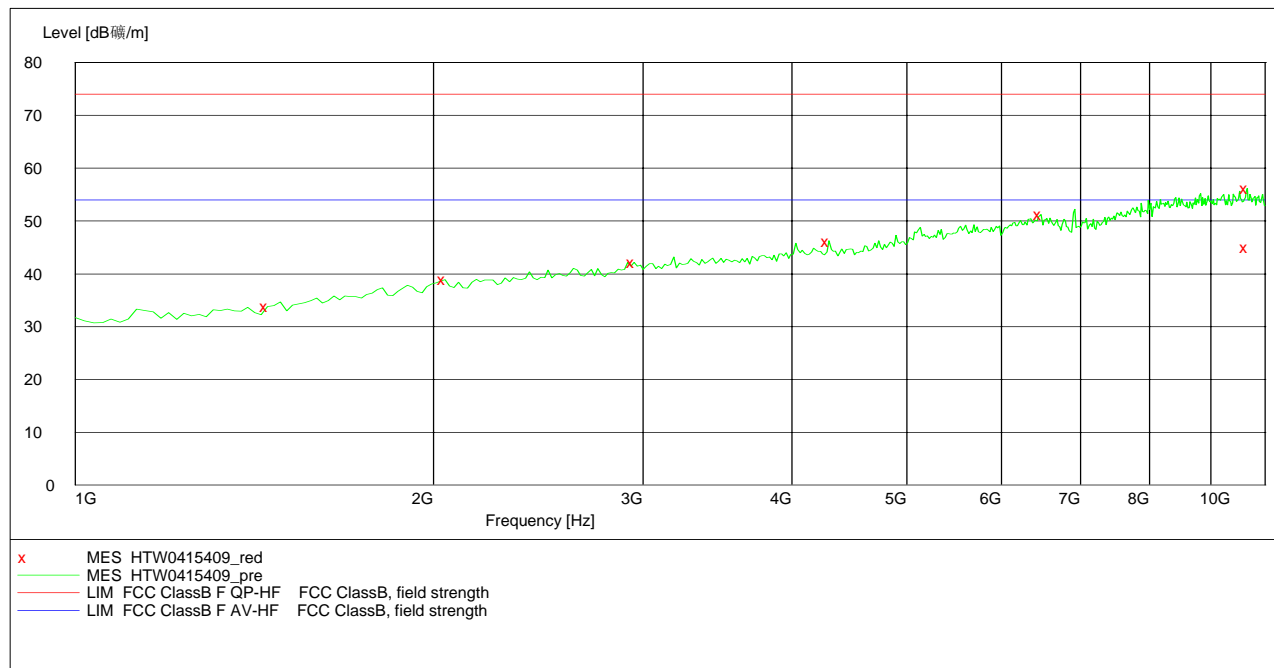
MEASUREMENT RESULT: "HTW0415414_red"

4/16/2012 8:46AM

| Frequency MHz | Level dBμV/m | Transd dB | Limit dBμV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|------|-----------|-------------|--------------|
| 1450.901804 | 34.40 | -23.9 | 54.0 | 19.6 | Peak | 100.0 | 51.00 | HORIZONTAL |
| 2046.092184 | 38.60 | -19.3 | 54.0 | 15.4 | Peak | 100.0 | 338.00 | HORIZONTAL |
| 2821.643287 | 42.20 | -15.9 | 54.0 | 11.8 | Peak | 100.0 | 359.00 | HORIZONTAL |
| 4625.250501 | 45.60 | -12.6 | 54.0 | 8.4 | Peak | 100.0 | 125.00 | HORIZONTAL |
| 5563.126253 | 53.90 | -9.9 | 54.0 | 0.1 | Peak | 100.0 | 113.00 | HORIZONTAL |
| 9422.845691 | 55.40 | -1.7 | 74.0 | 18.6 | Peak | 100.0 | 0.00 | HORIZONTAL |
| 9422.845691 | 45.40 | -1.7 | 54.0 | 8.6 | AV | 100.0 | 0.00 | HORIZONTAL |

SWEEP TABLE: "test (1G-18G) P"

Short Description: EN 55022 Field Strength
 Start Stop Detector Meas. IF Transducer
 Frequency Frequency Time Bandw.
 1.0 GHz 18.0 GHz MaxPeak Coupled 1 MHz HF906 2011
 Average



MEASUREMENT RESULT: "HTW0415409_red"

4/16/2012 8:36AM

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Det. | Height cm | Azimuth deg | Polarization |
|------------------|-----------------|--------------|-----------------|--------------|------|--------------|----------------|--------------|
| 1450.901804 | 33.80 | -23.9 | 54.0 | 20.2 | Peak | 100.0 | 31.00 | VERTICAL |
| 2046.092184 | 38.90 | -19.3 | 54.0 | 15.1 | Peak | 100.0 | 110.00 | VERTICAL |
| 2947.895792 | 42.20 | -15.5 | 54.0 | 11.8 | Peak | 100.0 | 54.00 | VERTICAL |
| 4300.601202 | 46.20 | -13.0 | 54.0 | 7.8 | Peak | 100.0 | 7.00 | VERTICAL |
| 6482.965932 | 51.20 | -7.9 | 54.0 | 2.8 | Peak | 100.0 | 273.00 | VERTICAL |
| 9657.314629 | 56.20 | -1.7 | 74.0 | 17.8 | Peak | 100.0 | 263.00 | VERTICAL |
| 9657.314629 | 45.00 | -1.7 | 54.0 | 9.0 | AV | 100.0 | 263.00 | VERTICAL |

4.9. Receiver Conducted Spurious Emission

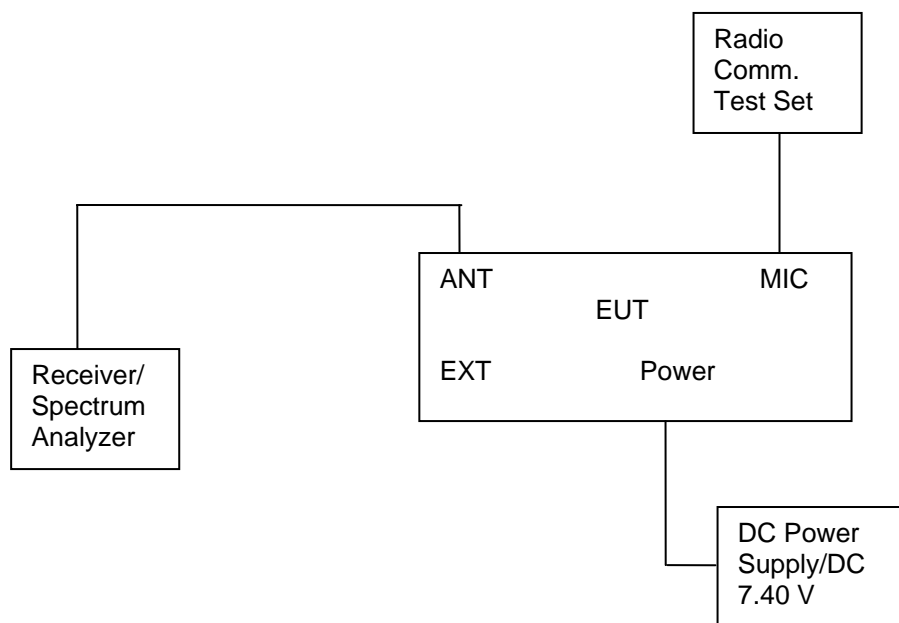
TEST APPLICABLE

The same as Section 4.3

TEST PROCEDURE

The spectrum analyzer was connected to the RF output power of the EUT, the EUT was setup in receiving mode; The RBW of the spectrum analyzer was set to 100 kHz and the VBW set to 300 KHz below the test frequency 1GHz. While the RBW of the spectrum analyzer was set to the 1MHz and VBW set to the 3MHz from 1GHz to the 10th harmonic.

TEST CONFIGURATION



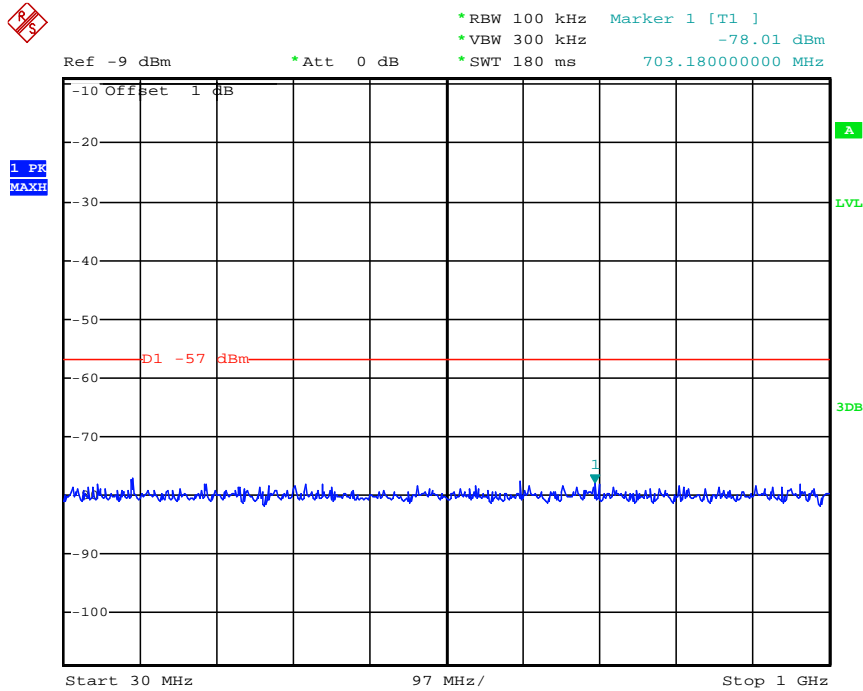
LIMIT

The power at the antenna terminal shall not exceed 2.0 nanowatts (-57dBm).

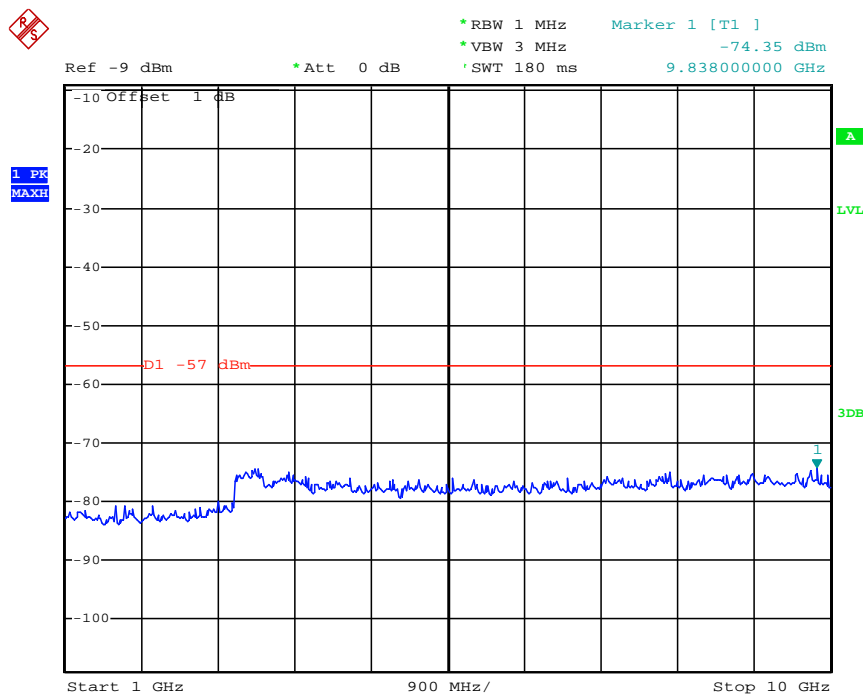
TEST RESULTS

The Receiver Conducted Spurious Emissions Measurement is performed to the three channels (the top channel, the middle channel and the bottom channel), the datums recorded below were for the three channels; and the EUT shall be scanned from 30 MHz to the 10 GHz.

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FM | 25KHz | Low | 851.5000 | 703.18 | -78.01 | 9838.00 | -74.35 | -57dBm |
| Test Results | | | | Compliance | | | | |

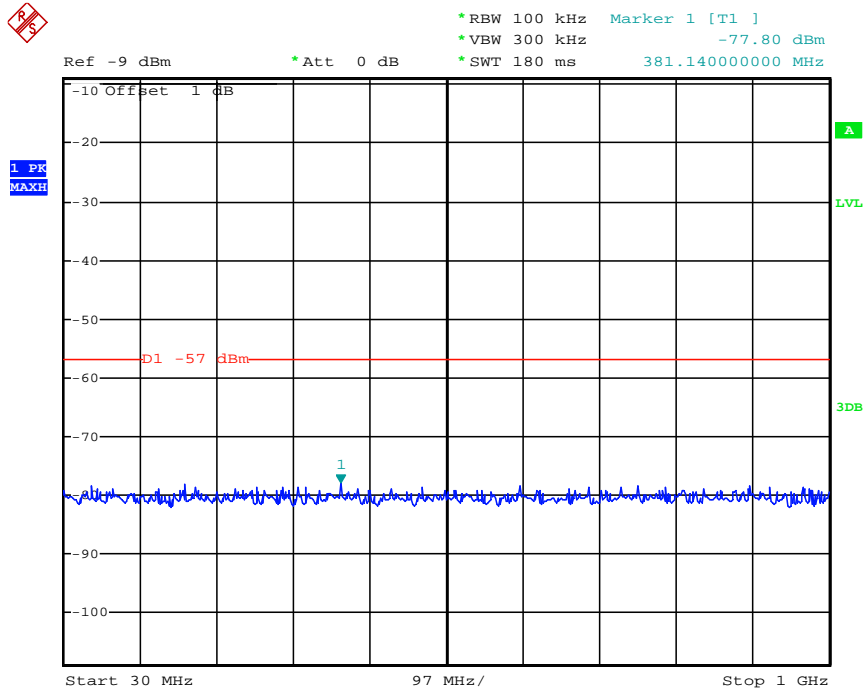


Date: 12.APR.2012 04:09:16

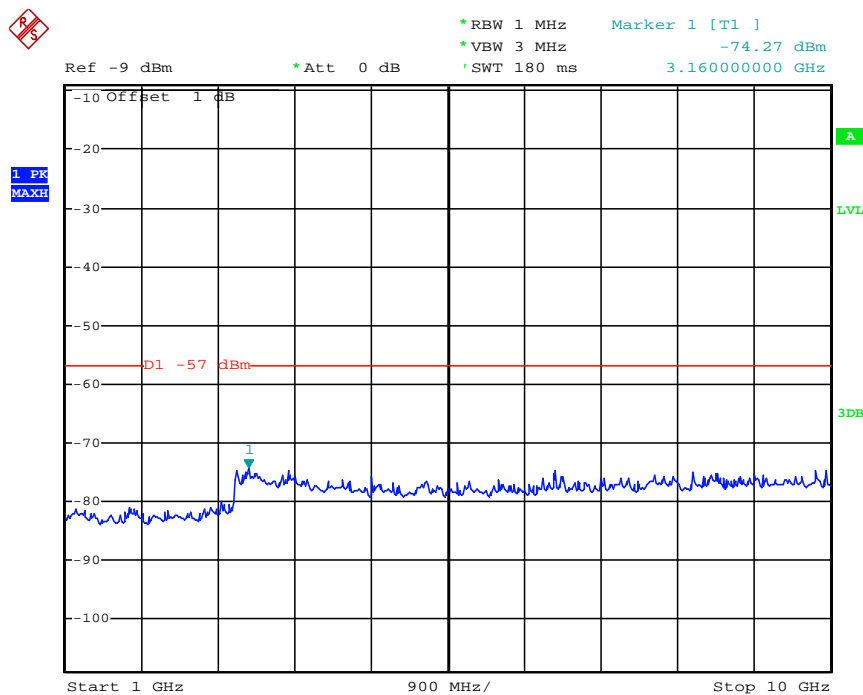


Date: 12.APR.2012 04:07:54

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FM | 25KHz | Middle | 860.0000 | 381.14 | -77.80 | 3160.00 | -74.27 | -57dBm |
| Test Results | | | | Compliance | | | | |

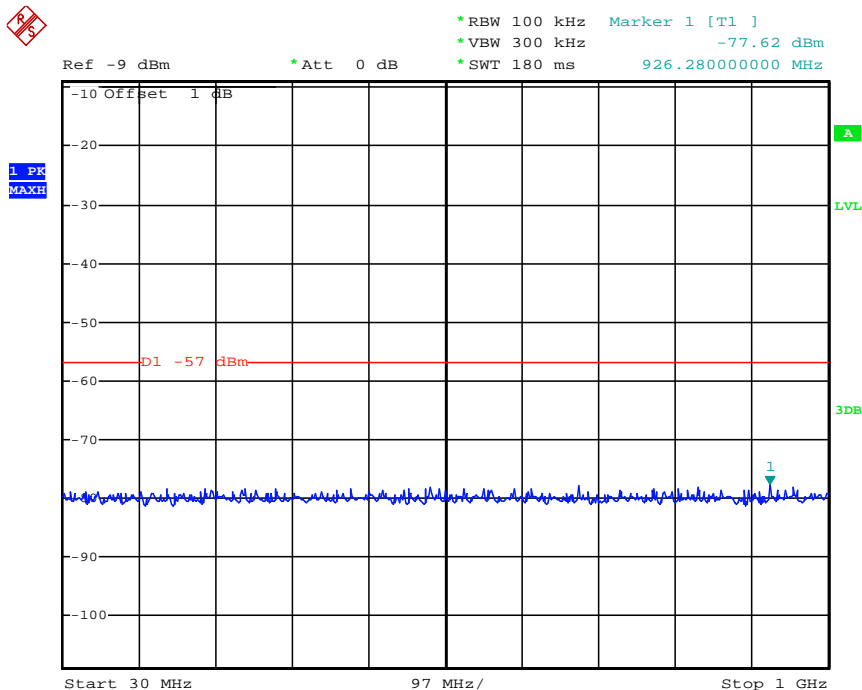


Date: 12.APR.2012 04:09:04

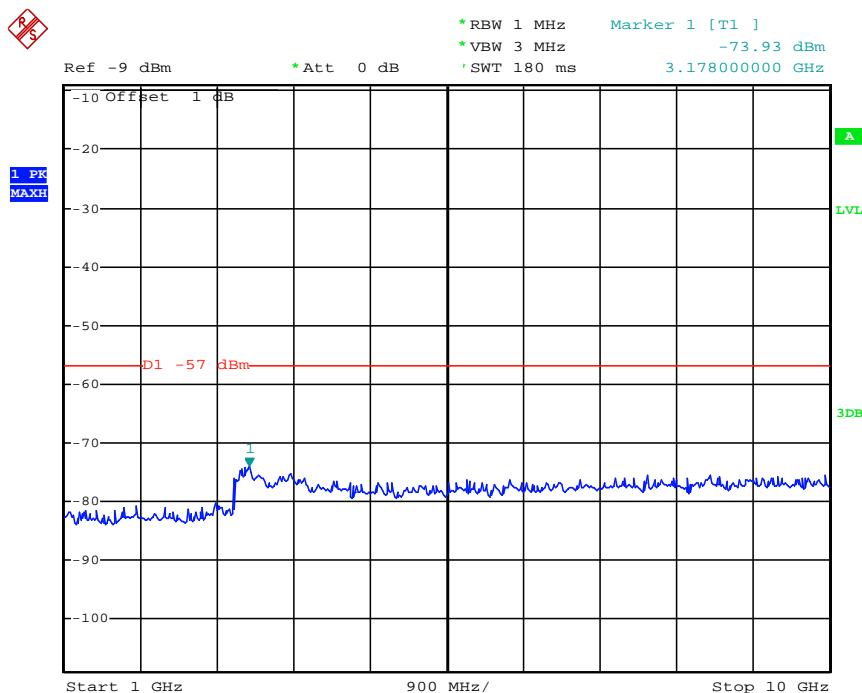


Date: 12.APR.2012 04:08:09

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FM | 25KHz | High | 868.5000 | 926.28 | -77.62 | 3178.00 | -73.93 | -57dBm |
| Test Results | | | | Compliance | | | | |

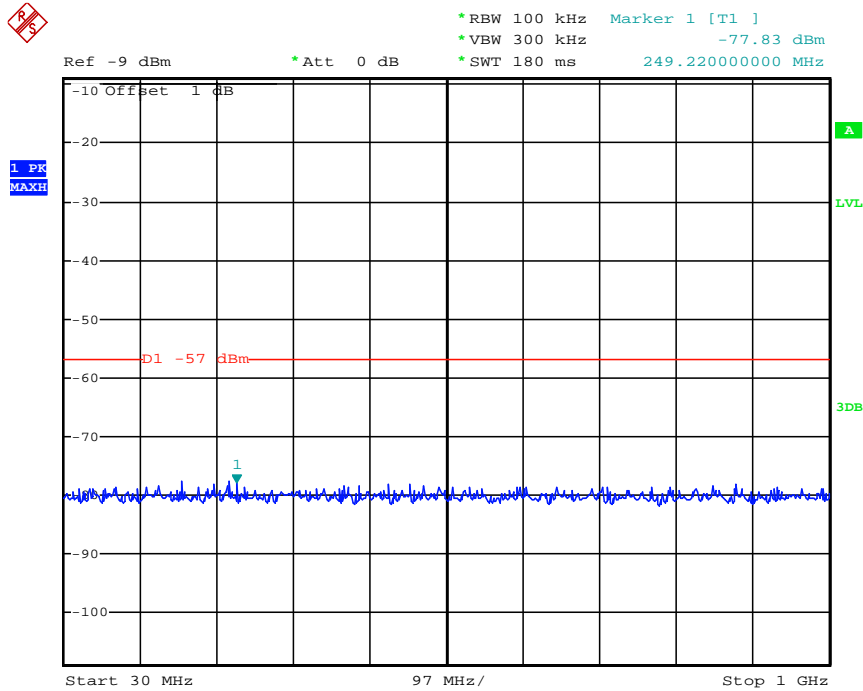


Date: 12.APR.2012 04:08:48

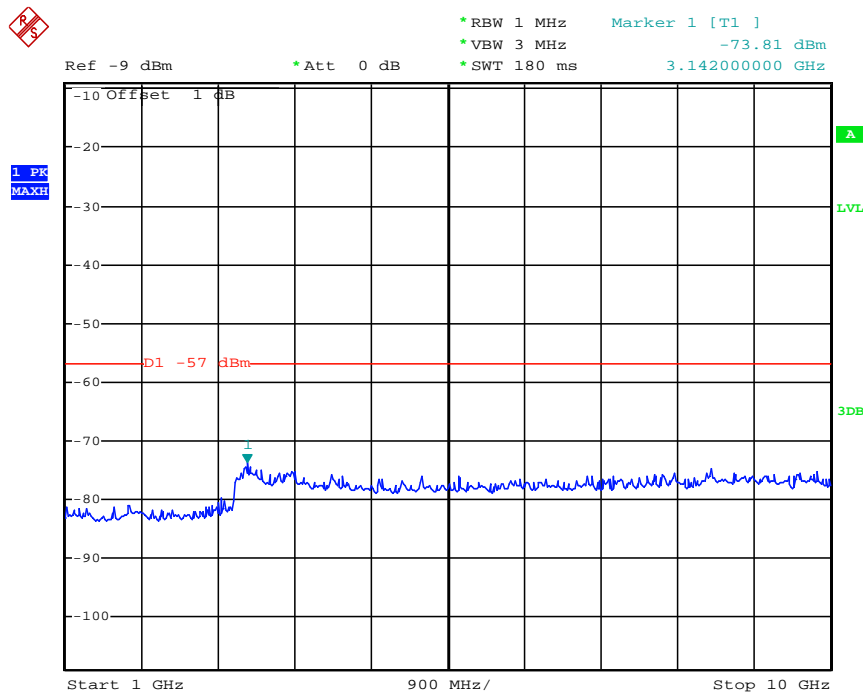


Date: 12.APR.2012 04:08:19

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FM | 12.5KHz | Low | 851.5000 | 249.22 | -77.82 | 3142.00 | -73.81 | -57dBm |
| Test Results | | | | Compliance | | | | |

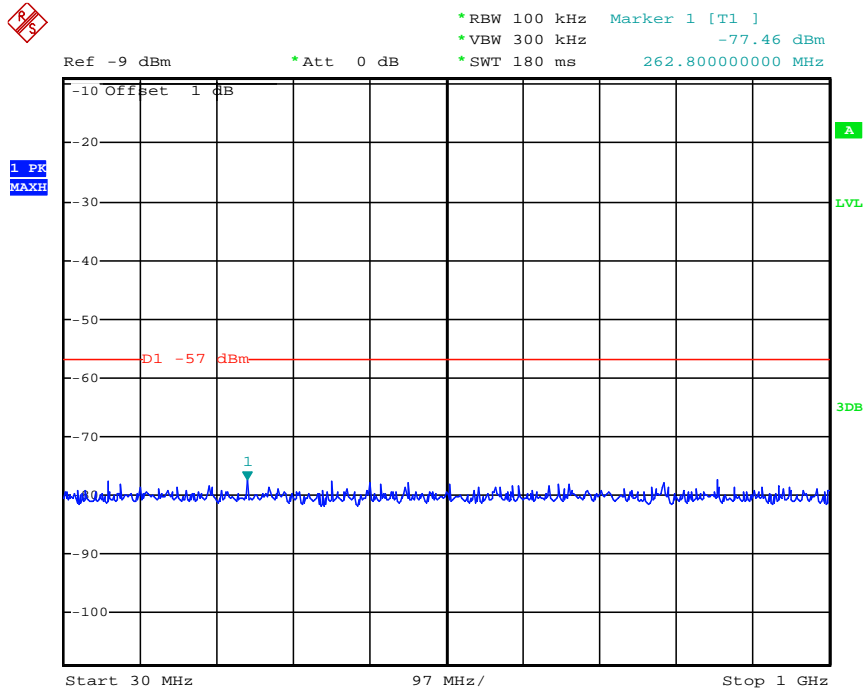


Date: 12.APR.2012 04:11:08

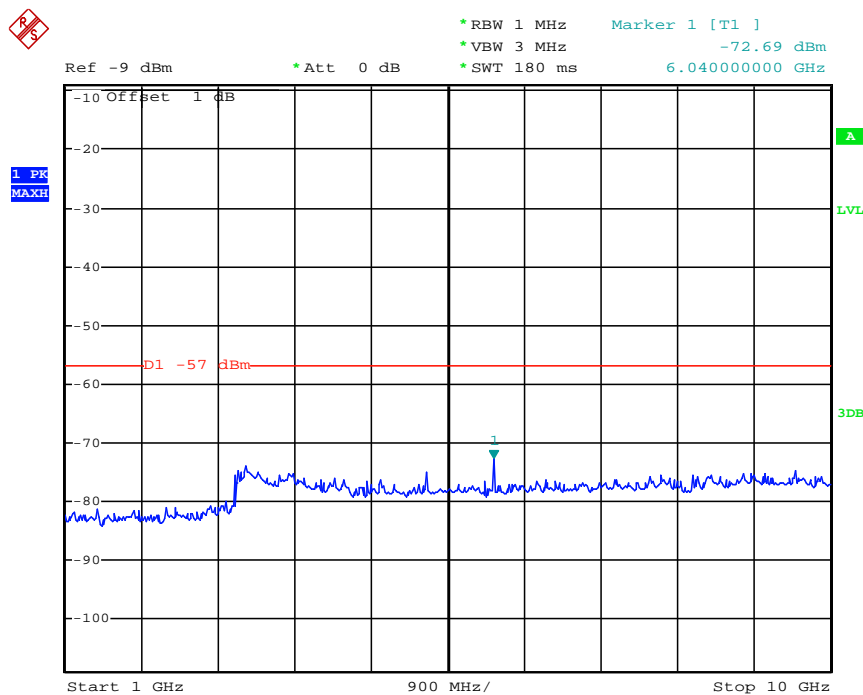


Date: 12.APR.2012 04:14:53

| Modulation Type | Channel Separation | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|--------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FM | 12.5KHz | Middle | 860.0000 | 262.80 | -77.46 | 6040.00 | -72.69 | -57dBm |
| Test Results | | | | Compliance | | | | |

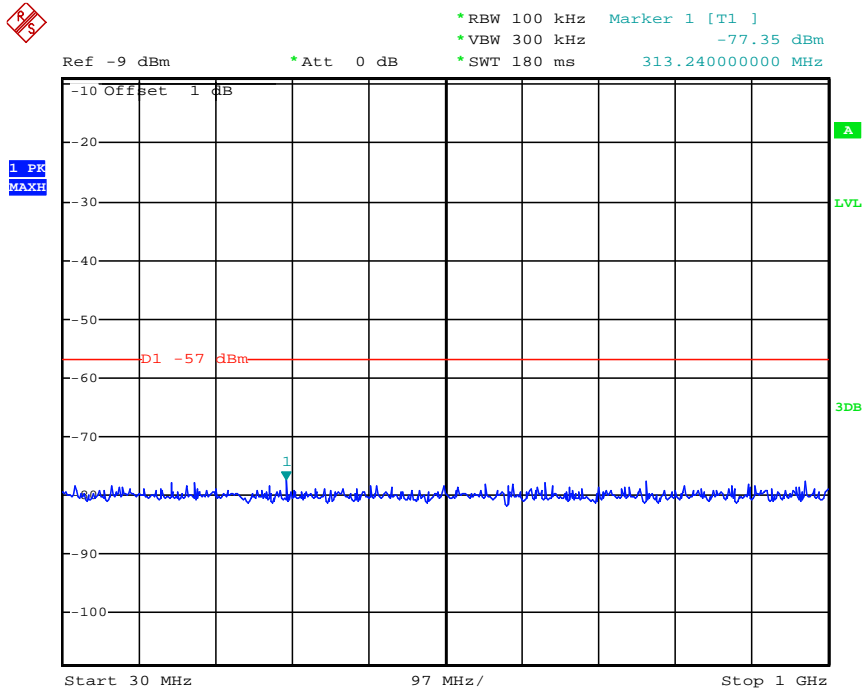


Date: 12.APR.2012 04:11:20

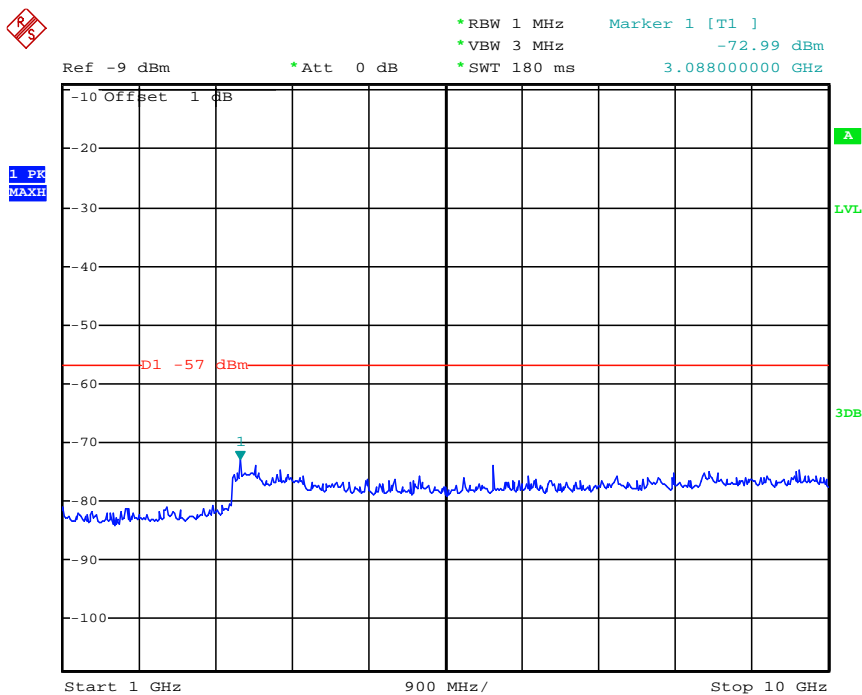


Date: 12.APR.2012 04:14:37

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FM | 12.5KHz | High | 868.5000 | 313.24 | -77.35 | 3088.00 | -72.99 | -57dBm |
| Test Results | | | | Compliance | | | | |

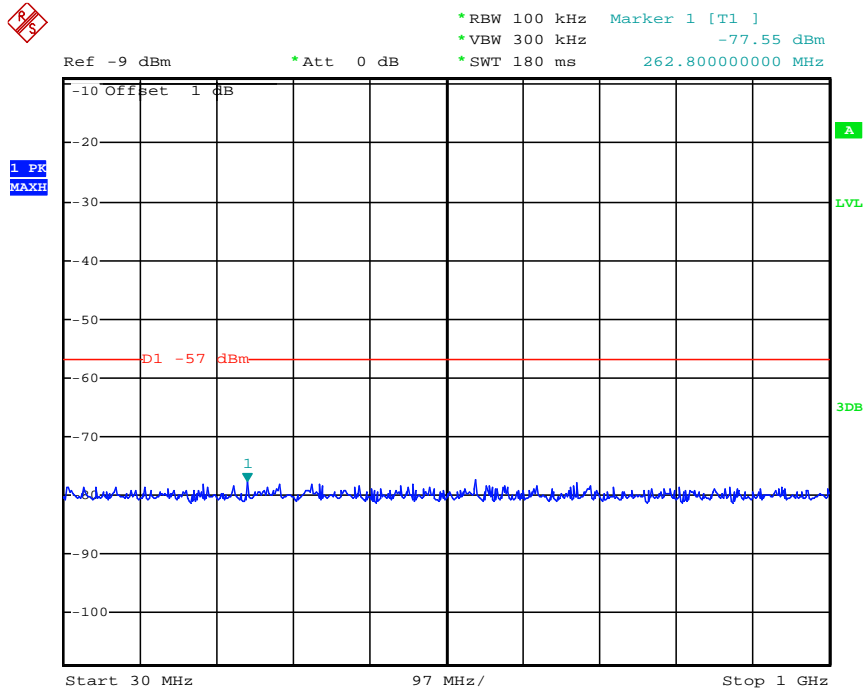


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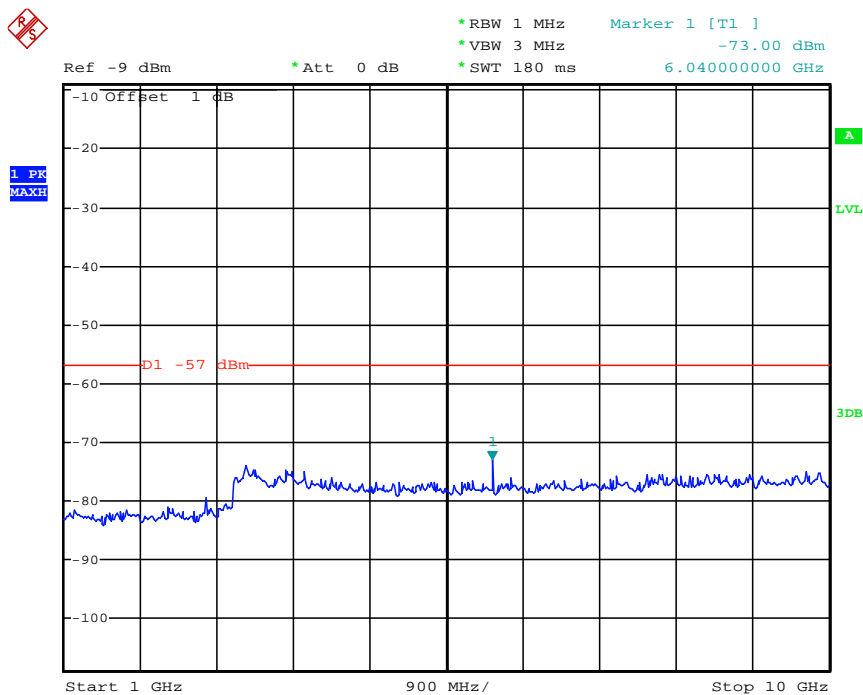


Date: 12.APR.2012 04:14:14

| Modulation Type | Channel Separation | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|--------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FM | 12.5KHz | Low | 935.5000 | 262.80 | -77.55 | 6040.00 | -73.00 | -57dBm |
| Test Results | | | | Compliance | | | | |

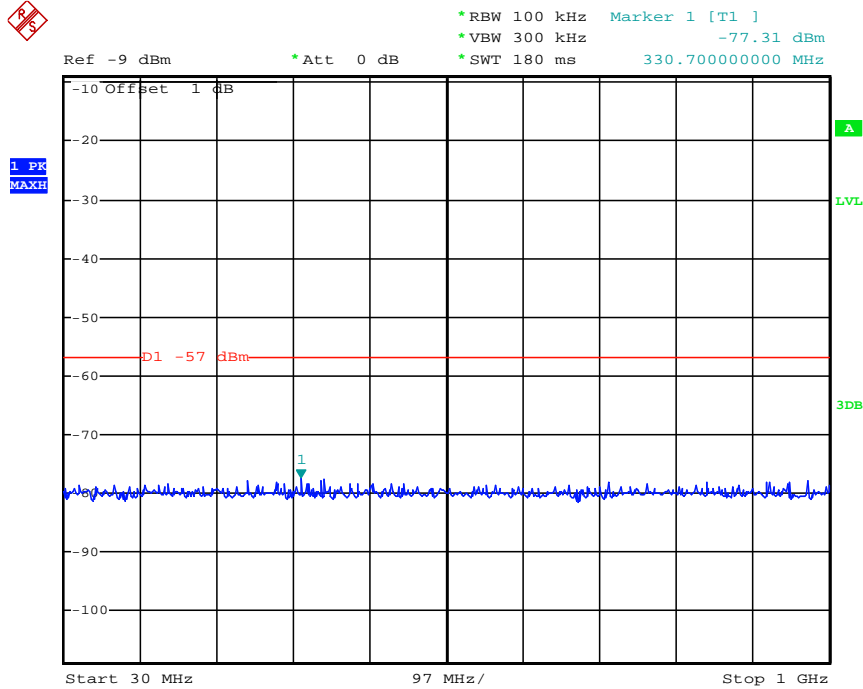


Date: 12.APR.2012 04:13:10

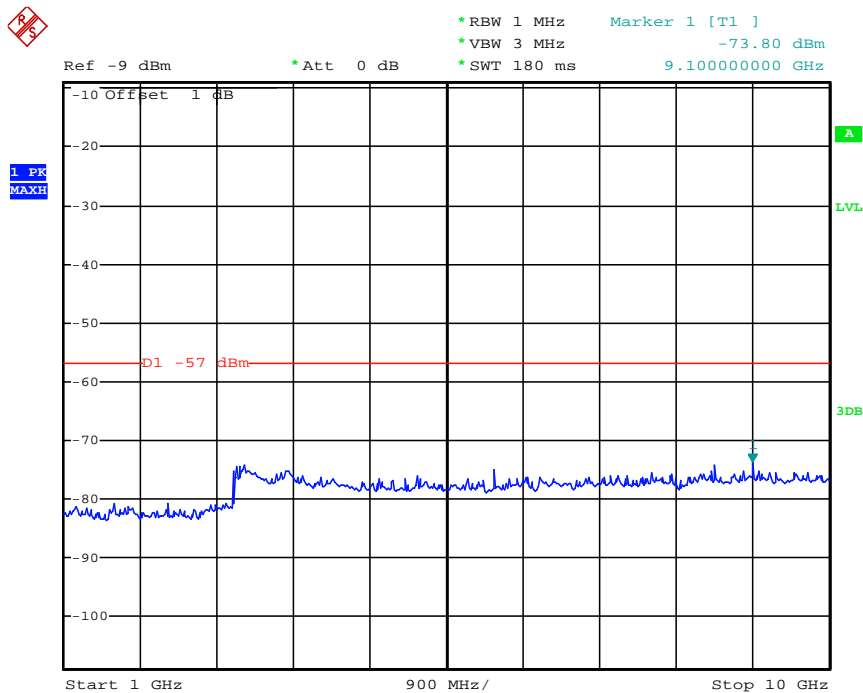


Date: 12.APR.2012 04:14:05

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|--|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FM | 12.5KHz | High | 939.5000 | 330.70 | -77.31 | 9100.00 | -73.80 | -57dBm |
| Test Results | | | | Compliance | | | | |

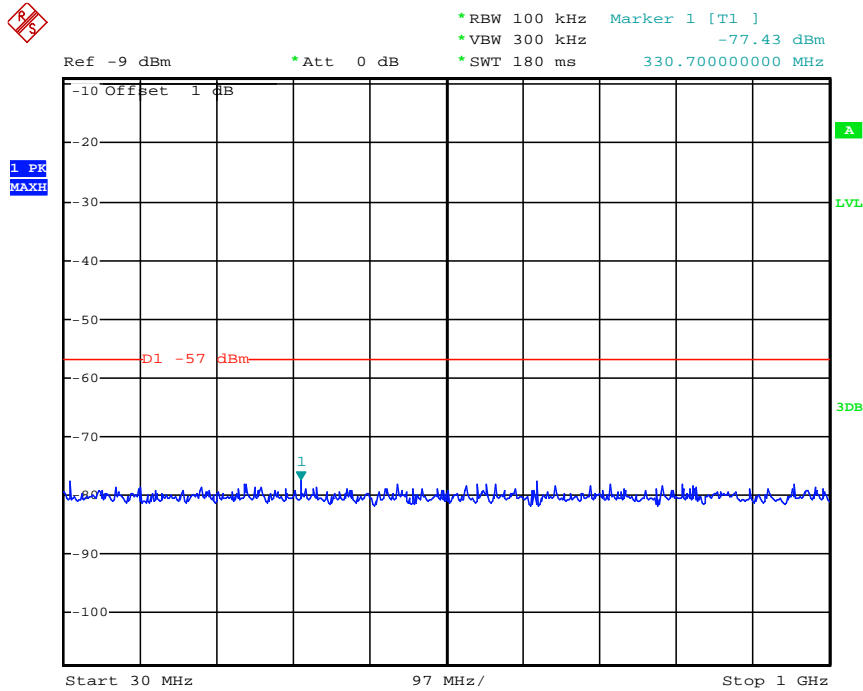


Date: 12.APR.2012 04:13:22

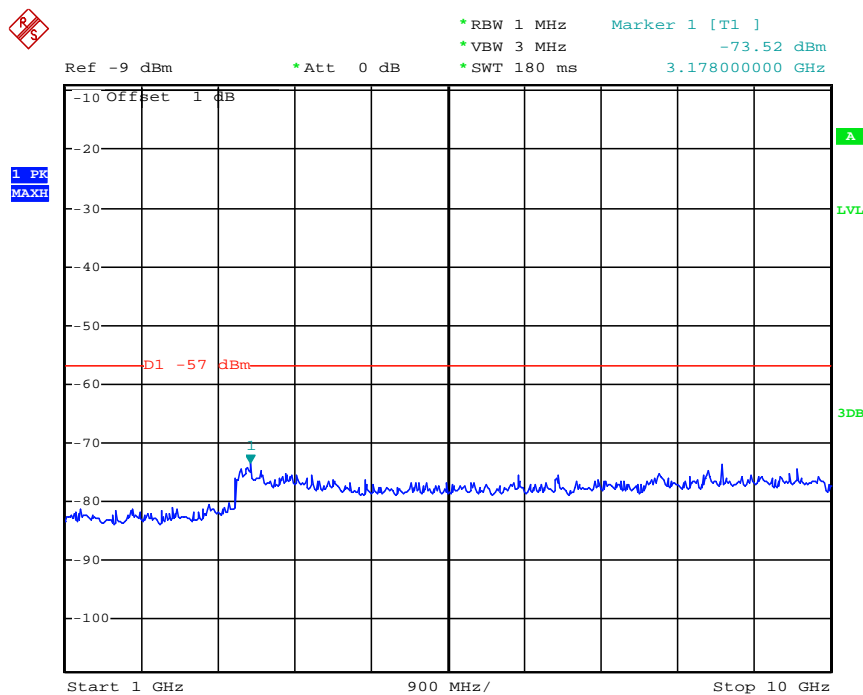


Date: 12.APR.2012 04:13:51

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FSK | 12.5KHz | Low | 851.5000 | 330.70 | -77.43 | 3178.00 | -73.52 | -57dBm |
| Test Results | | | | Compliance | | | | |

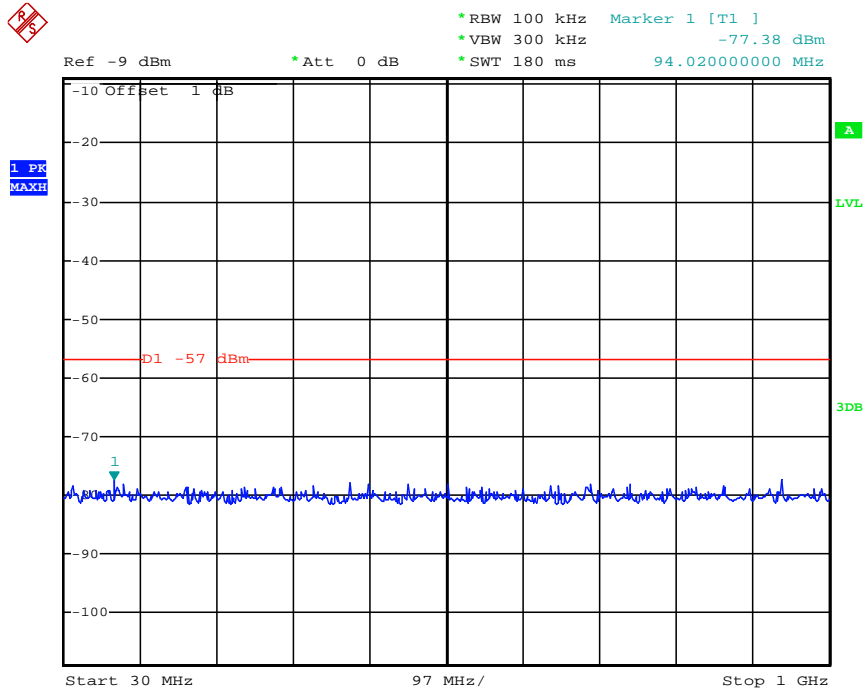


Date: 12.APR.2012 04:20:42

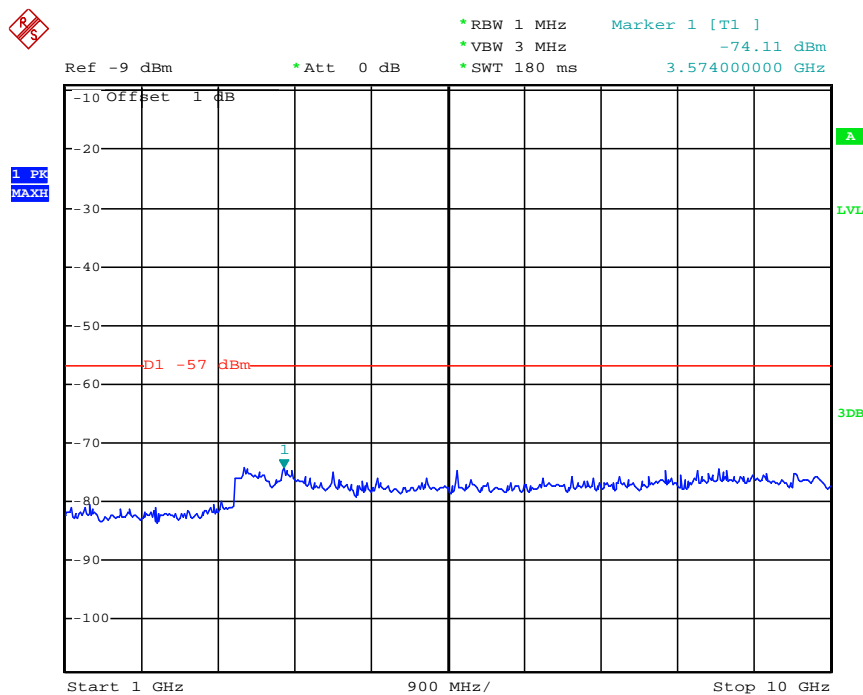


Date: 12.APR.2012 04:17:38

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FSK | 12.5KHz | Middle | 860.0000 | 94.02 | -77.38 | 3574.00 | -74.11 | -57dBm |
| Test Results | | | | Compliance | | | | |

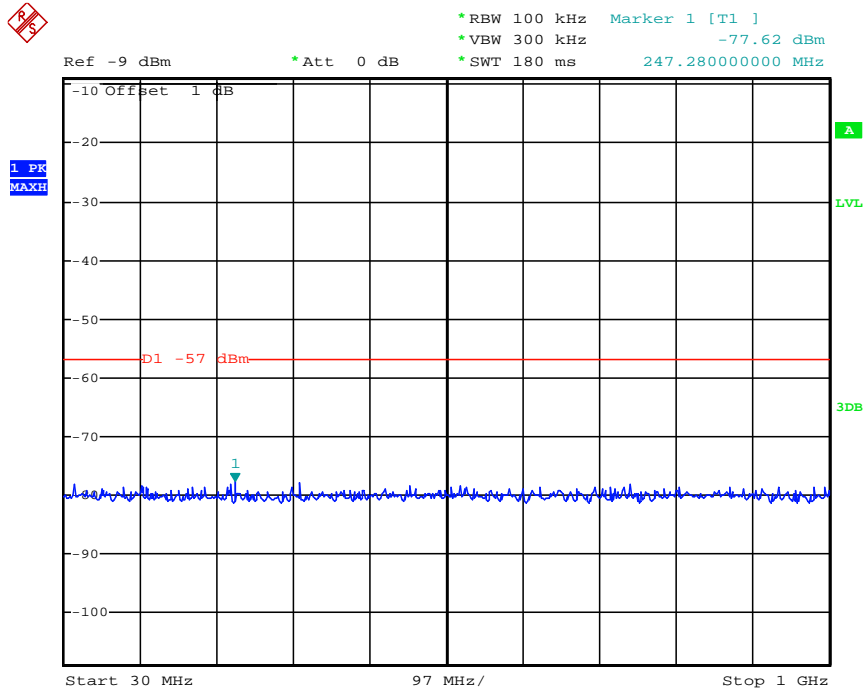


Date: 12.APR.2012 04:20:32

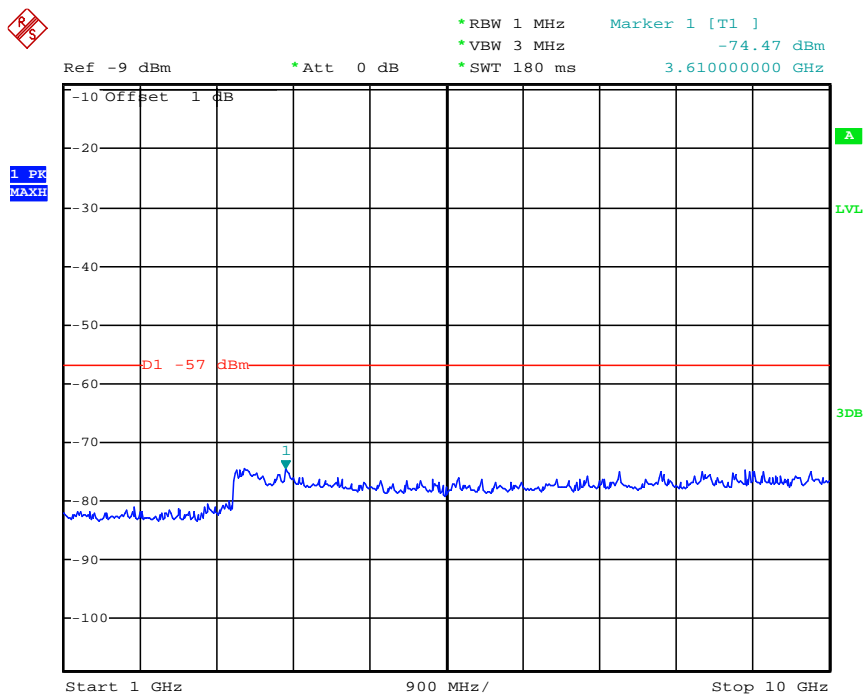


Date: 12.APR.2012 04:17:50

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FSK | 12.5KHz | High | 868.5000 | 247.28 | -77.62 | 3610.00 | -74.47 | -57dBm |
| Test Results | | | | Compliance | | | | |

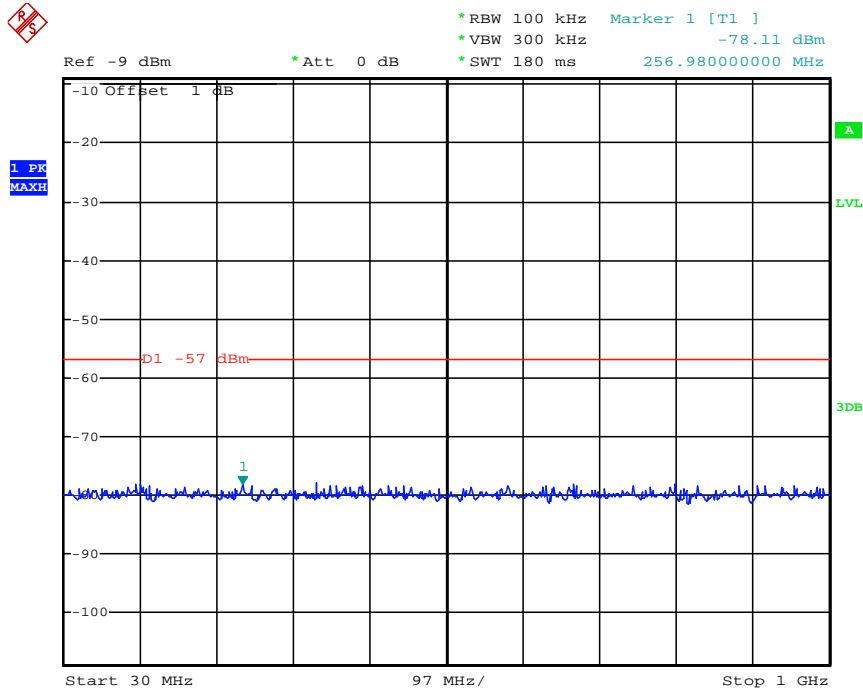


Date: 12.APR.2012 04:20:24

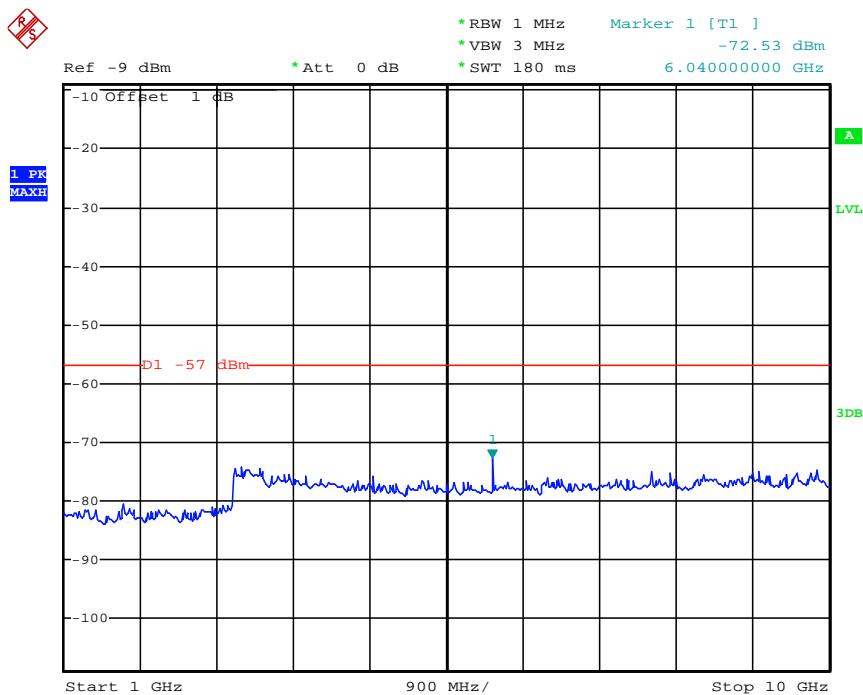


Date: 12.APR.2012 04:18:01

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FSK | 12.5KHz | Low | 935.5000 | 256.98 | -78.11 | 6040.00 | -72.53 | -57dBm |
| Test Results | | | | Compliance | | | | |

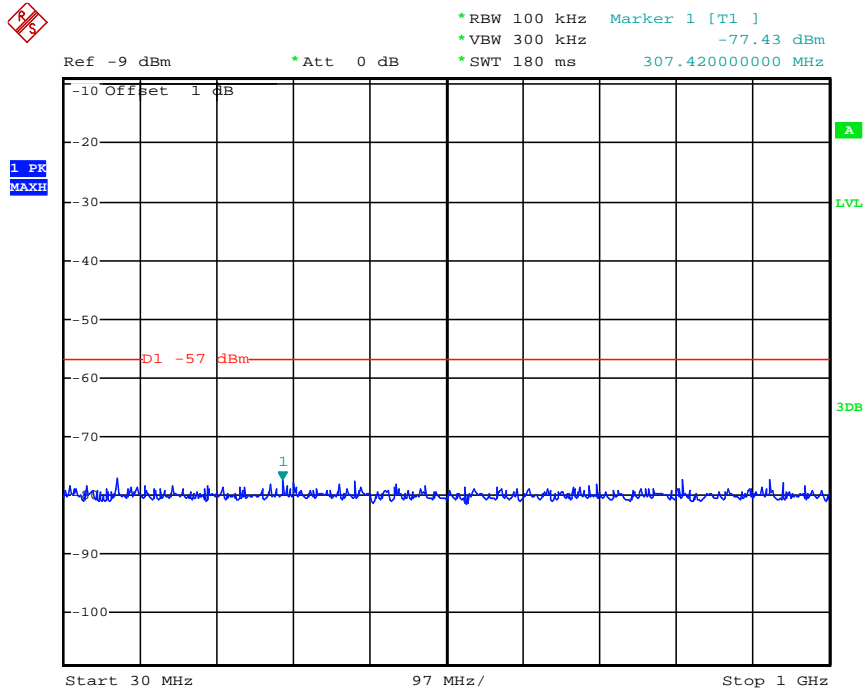


Date: 12.APR.2012 04:19:46

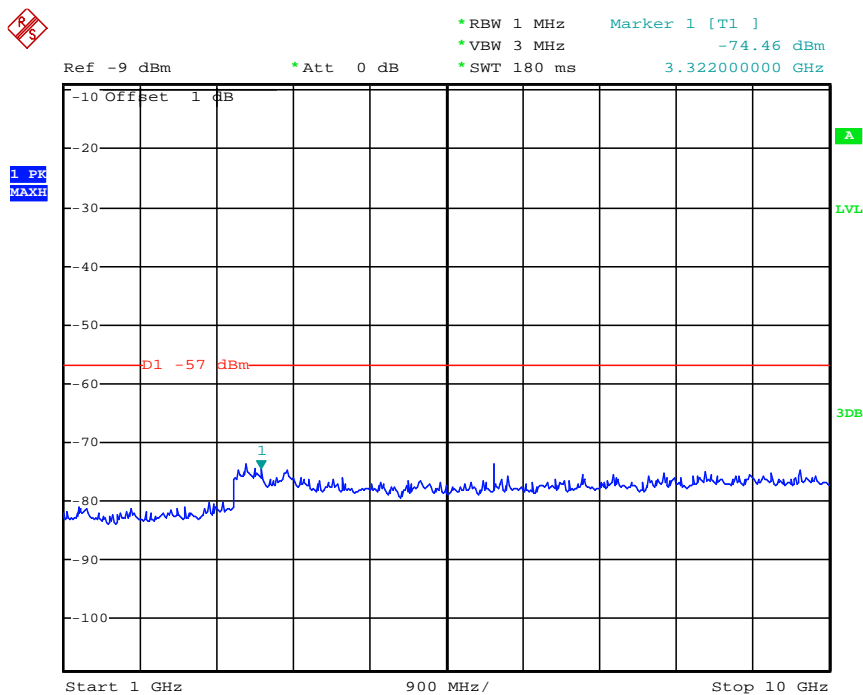


Date: 12.APR.2012 04:18:40

| Modulation Type | Channel SpARATION | Test Channel | Test Frequency (MHz) | Maximum Conducted Spurious Emissions Below 1GHz | | Maximum Conducted Spurious Emissions Above 1GHz | | FCC Limit |
|-----------------|-------------------|--------------|----------------------|---|-------------|---|-------------|-----------|
| | | | | Frequency (MHz) | Datum (dBm) | Frequency (MHz) | Datum (dBm) | |
| FSK | 12.5KHz | High | 939.5000 | 307.42 | -77.43 | 3322.00 | -74.46 | -57dBm |
| Test Results | | | | Compliance | | | | |

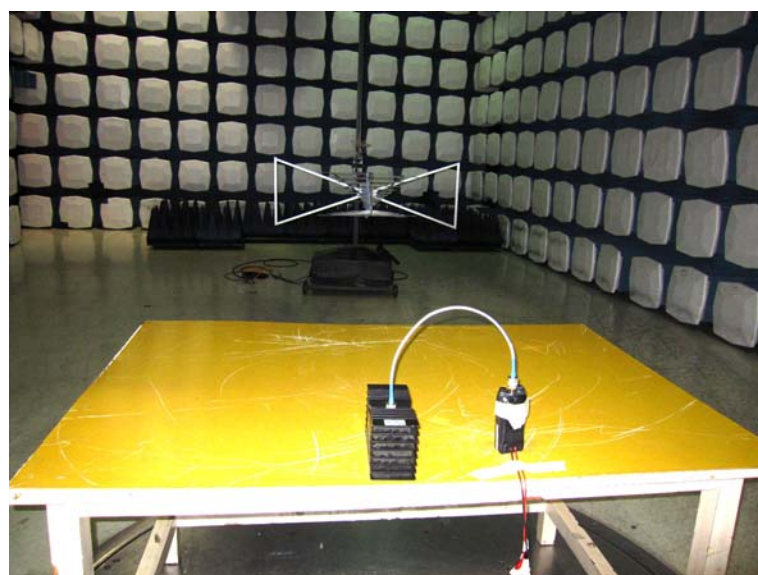
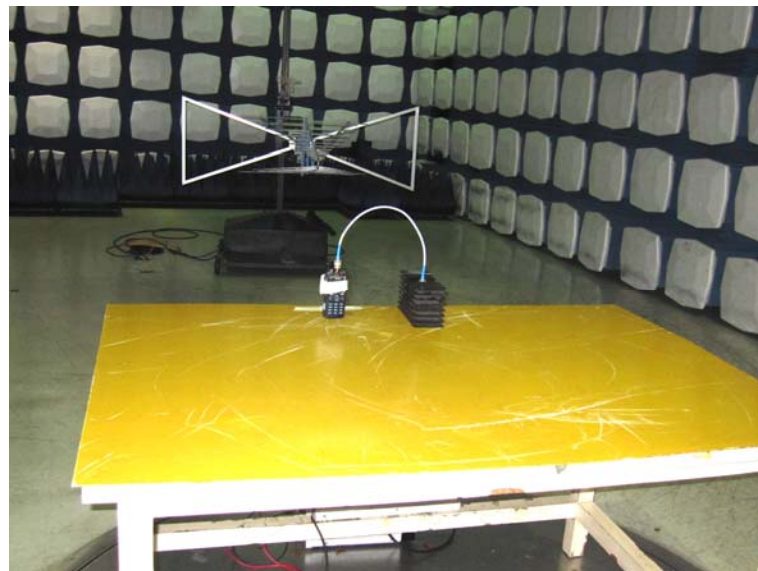


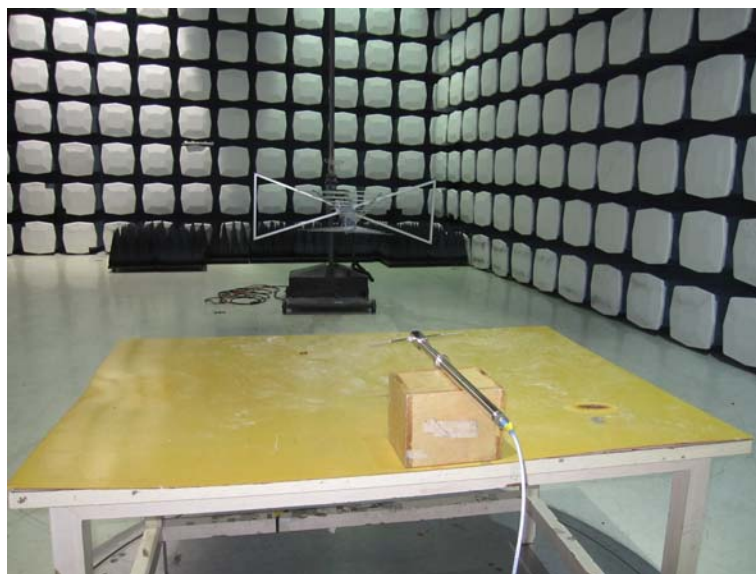
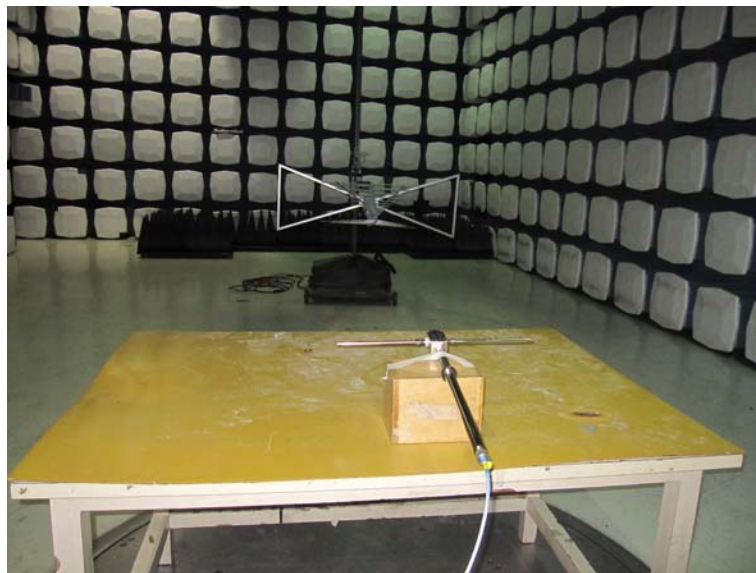
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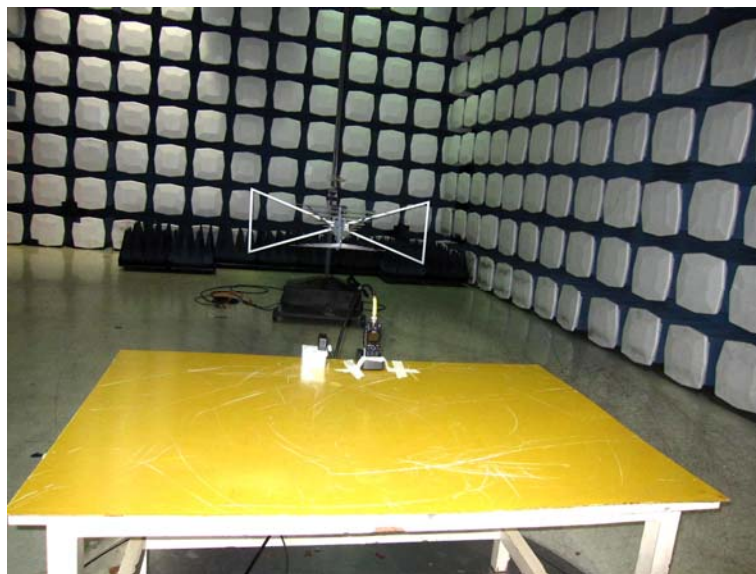
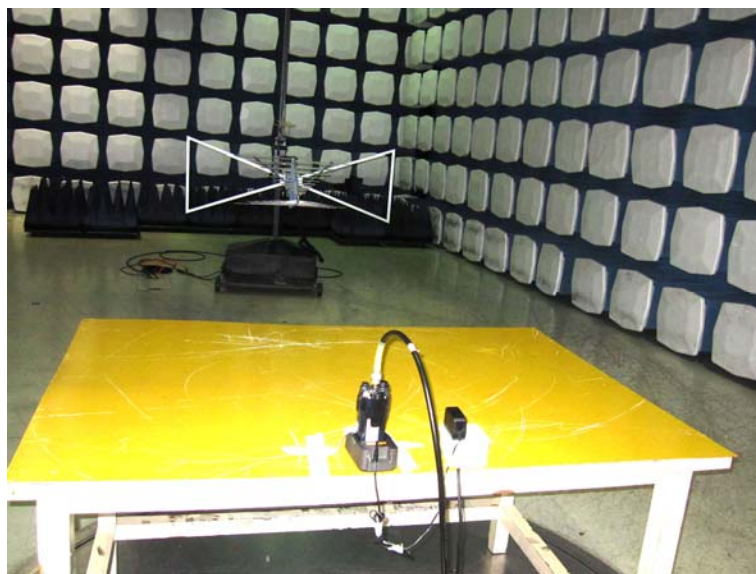
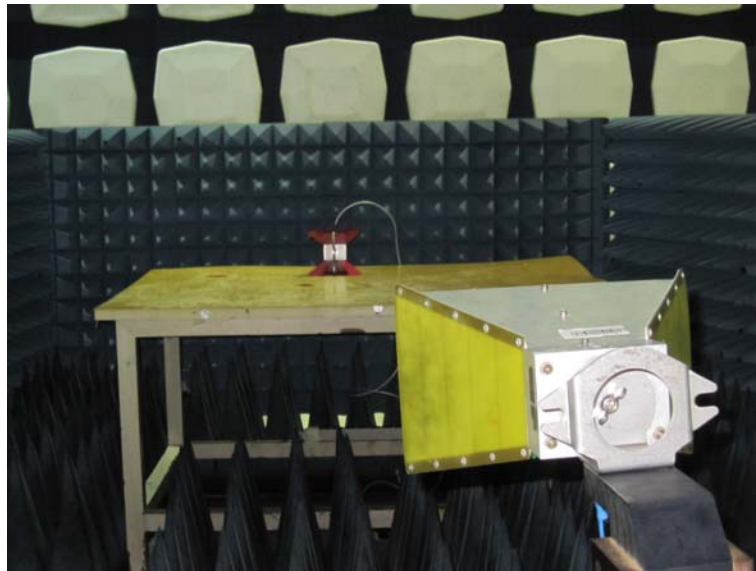


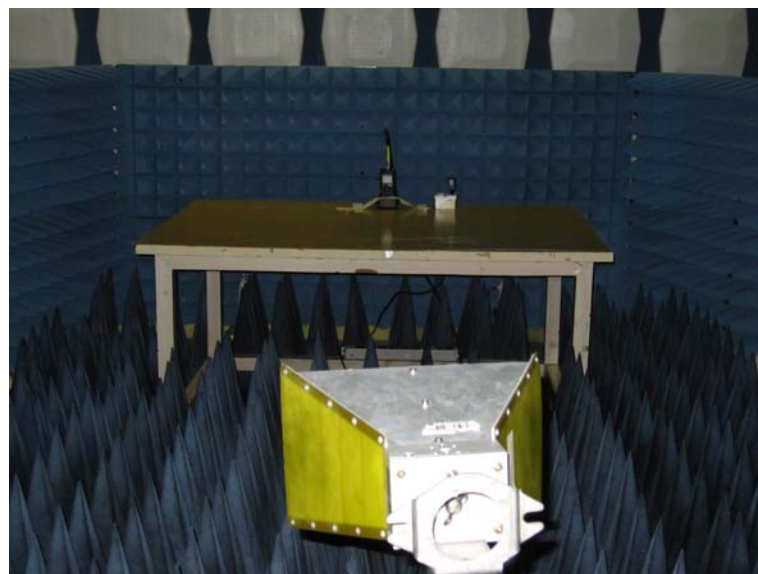
Date: 12.APR.2012 04:18:51

5. Test Setup Photos of the EUT









6. External and Internal Photos of the EUT

External photos of the EUT



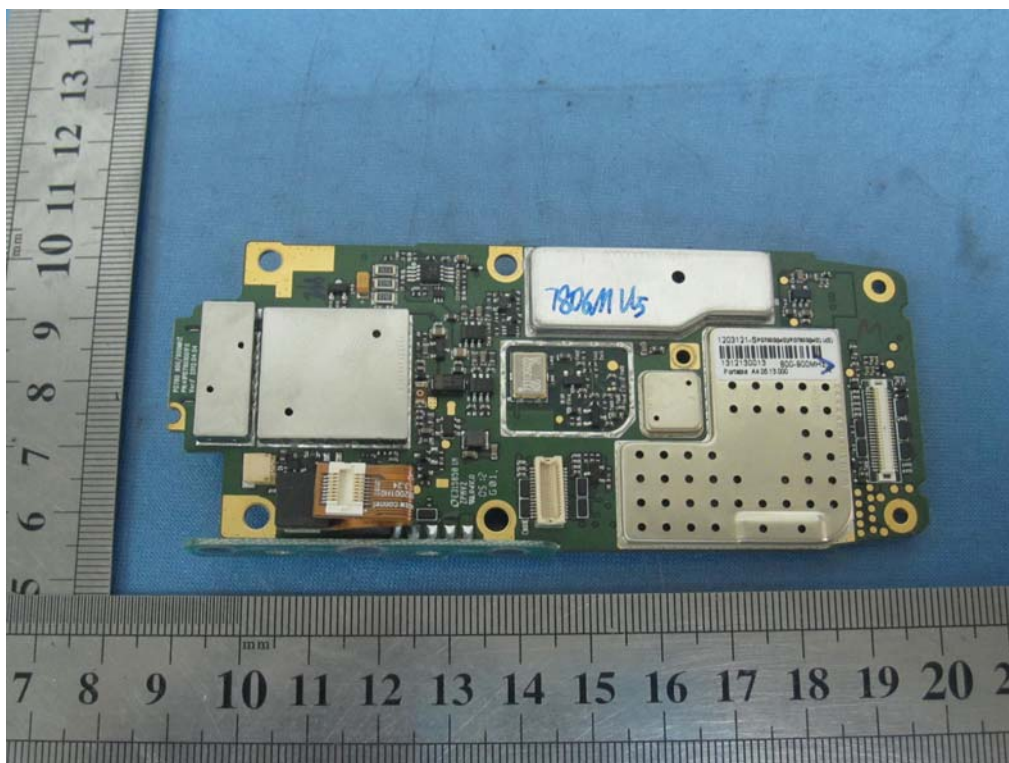
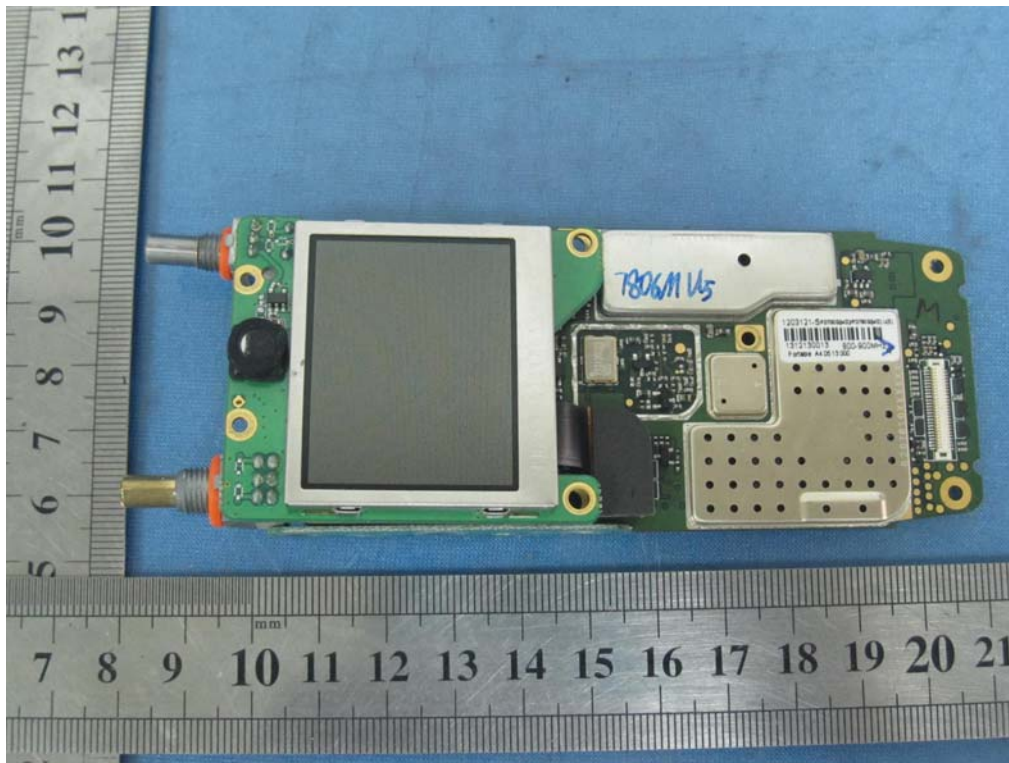


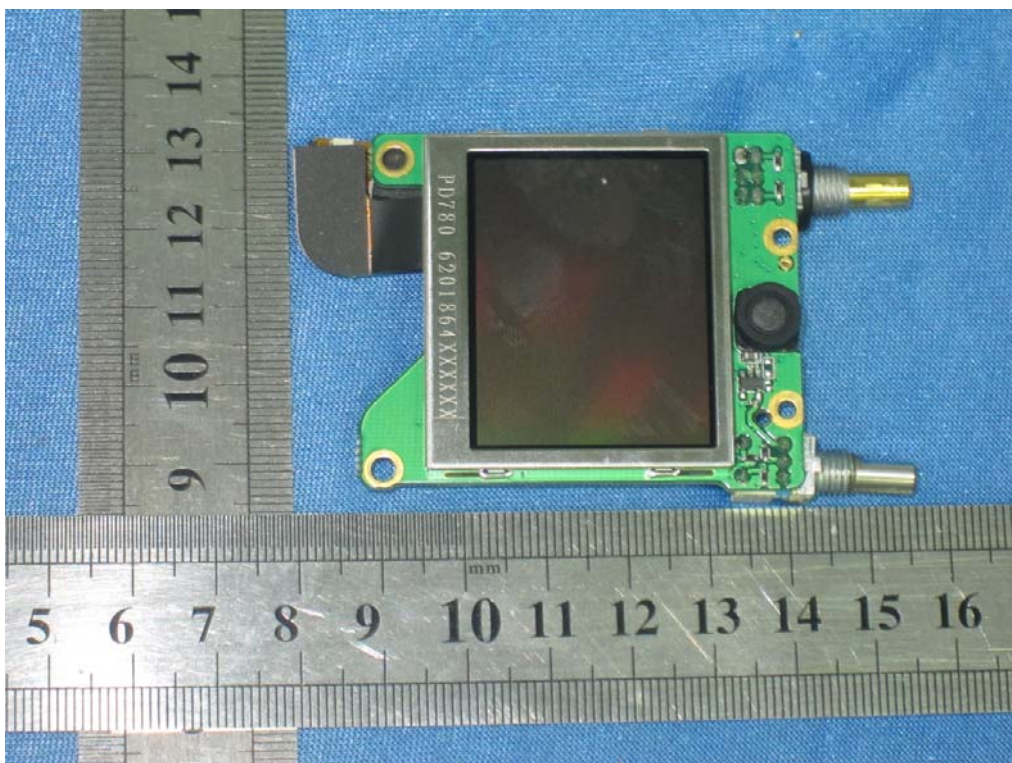
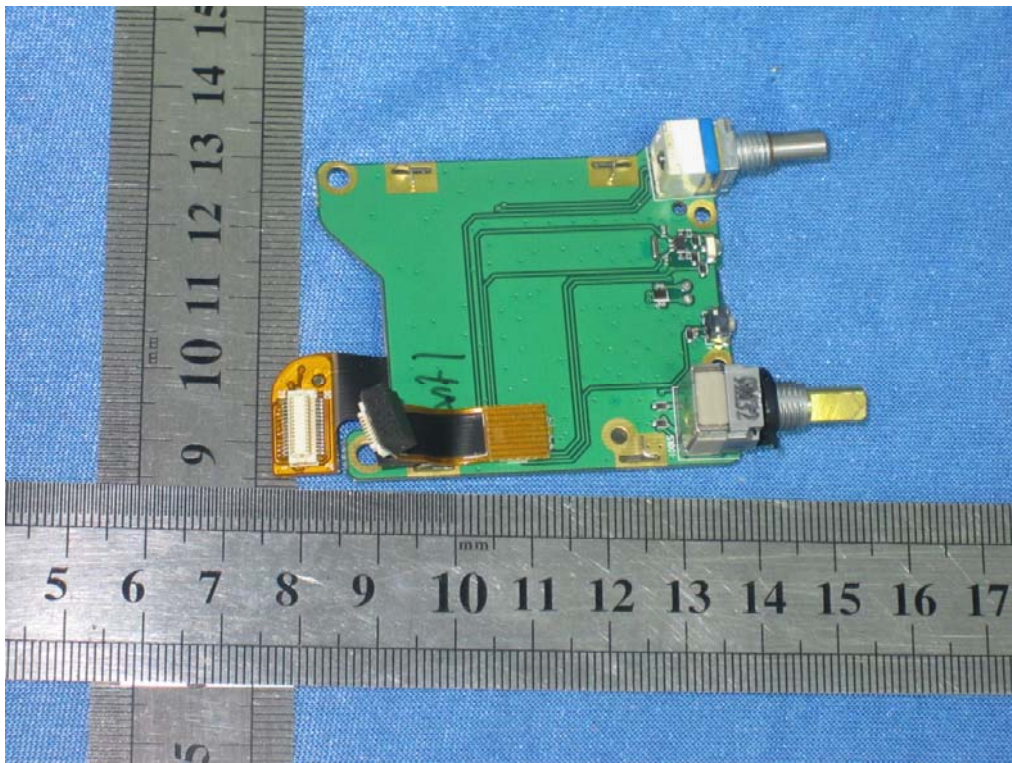


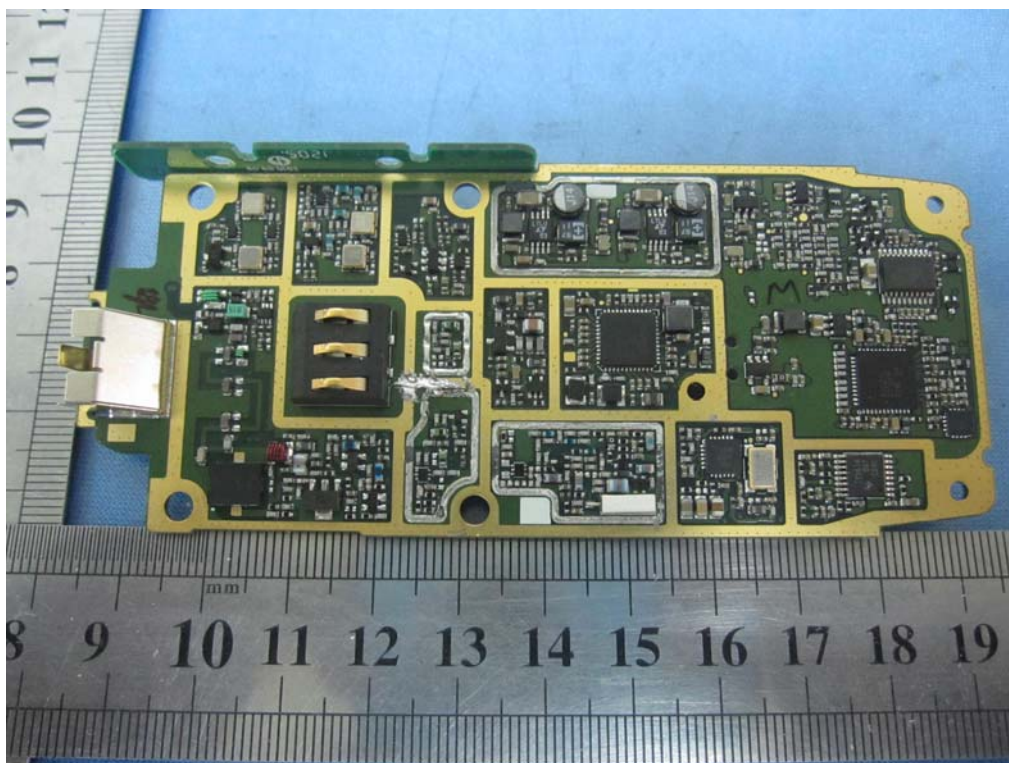
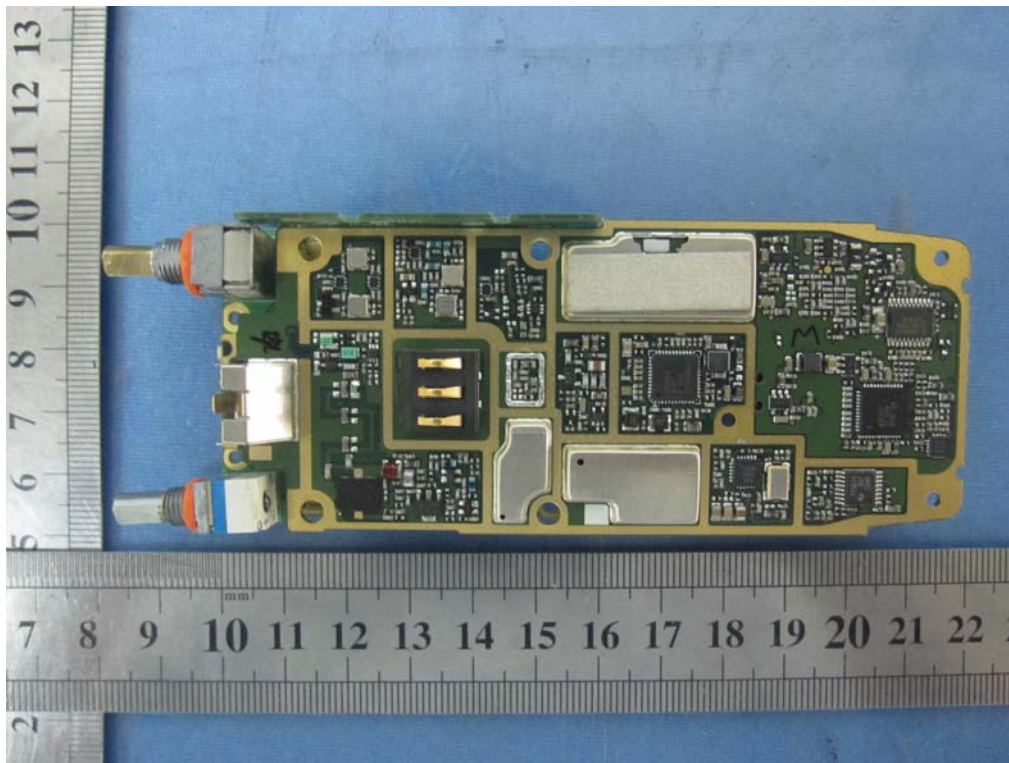


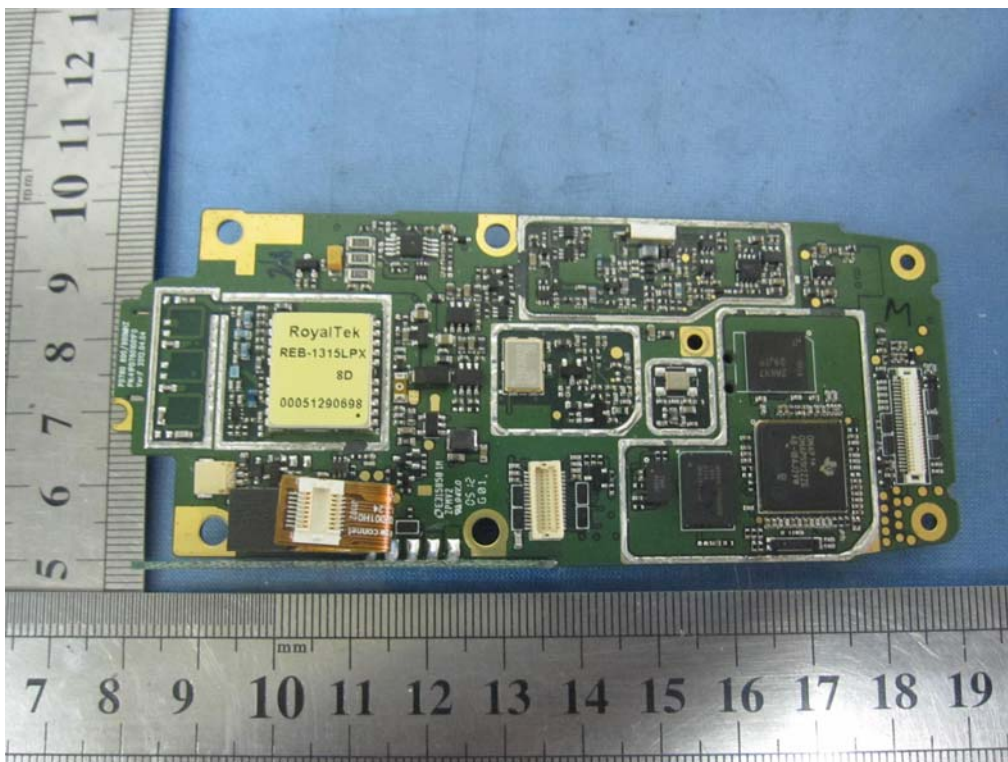
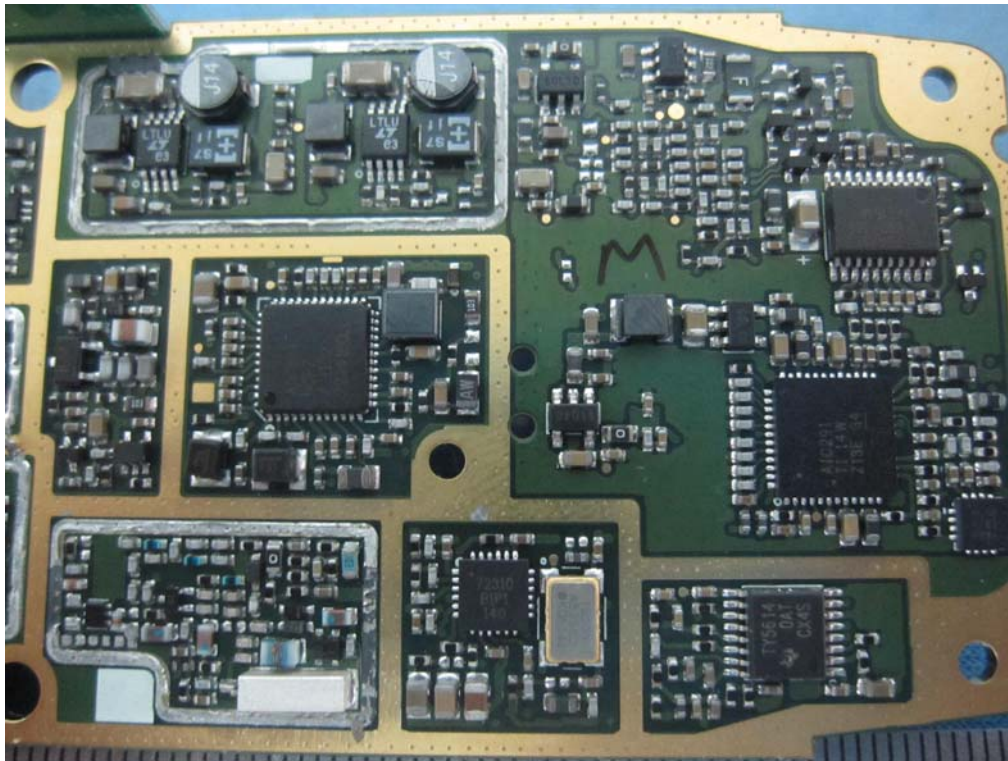
Internal photos of the EUT

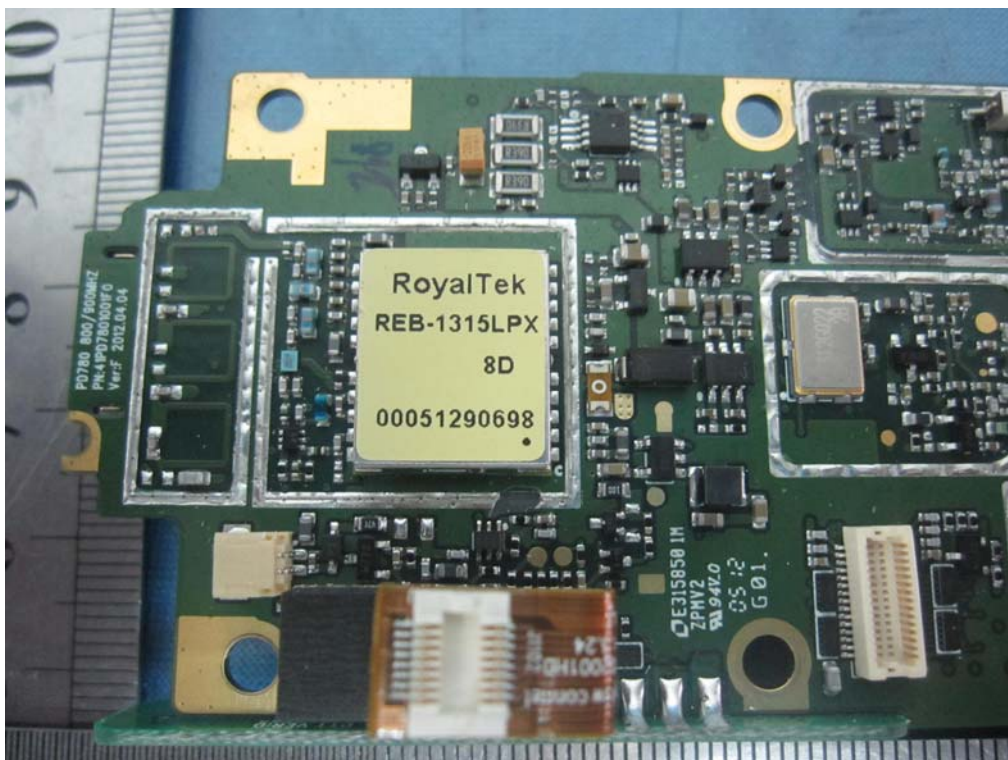
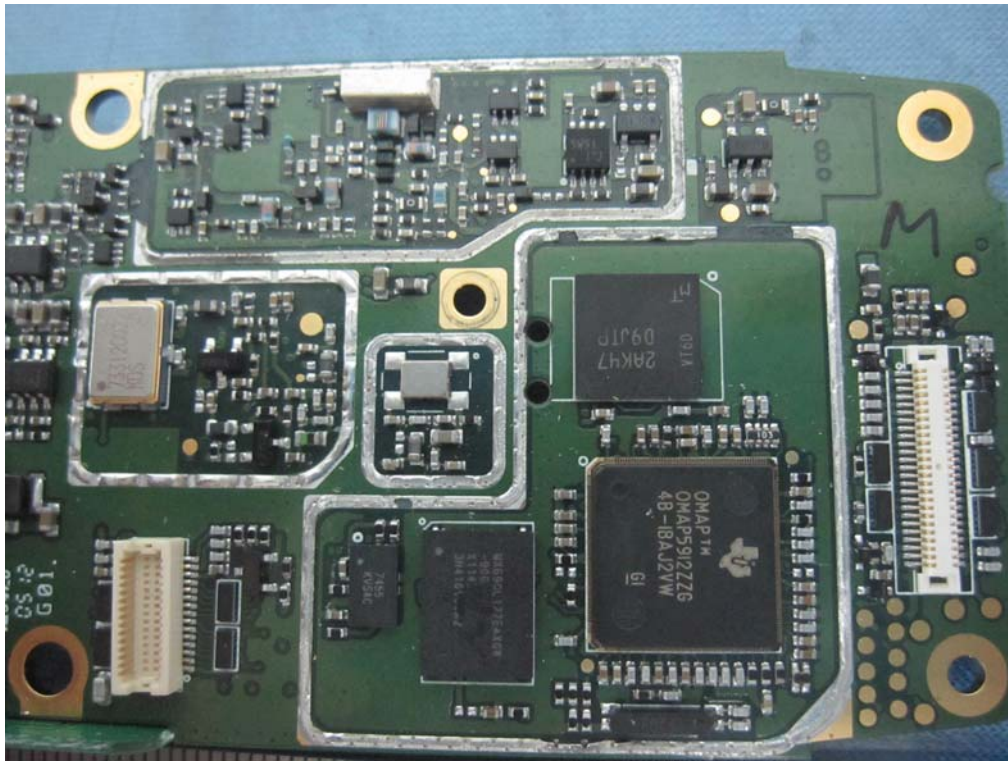












.....End of Report.....