



**Spectrum Research &
Testing Lab., Inc.**
No. 101-10, Ling 8,
Shan-Tong Li, Chung-Li
City, Taoyuan, Taiwan

TEST REPORT

Reference No.:C05081108
Report No.:FCCC05081108
FCC ID: I4L-MS6868F
Page:1 of 51
Date: Aug. 26, 2005

Product Name: BT Audio Transmitter
Model Number: MS-6868B, MS-6868F
Marking Name: FS-120
Applicant: MICRO-STAR INT'L CO., LTD.
No. 69, Li-De St, Jung-He City, Taipei Hsien, Taiwan
Date of Receipt: Aug. 18, 2005
Finished date of Test: Aug. 26, 2005
Applicable Standards: 47 CFR Part 15, Subpart C
47 CFR Part 15, Subpart B
ANSI C63.4: 2003

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Checked By :

Nick Hsieh
(Nick Hsieh)

Date: 2005-8-26

Approved By:

James Lee
(Johnson Ho, Director)

Date: Aug 26, 2005

NVLAQ[®]

Lab Code: 200099-0



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1. DOCUMENT POLICY AND TEST STATEMENT

1.1 DOCUMENT POLICY

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.

1.2 TEST STATEMENT

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- AC power source, 120 VAC/60 Hz, was used during the test.

1.3 EUT MODIFICATION

- No modification in SRT Lab.



TEST REPORT

2. DESCRIPTION OF EUT AND TEST MODE

2.1 GENERAL DESCRIPTION OF EUT

| | |
|--------------------------|----------------------------|
| PRODUCT | BT Audio Transmitter |
| MODEL NO. | MS-6868B, MS-6868F |
| MARKING NAME | FS-120 |
| POWER SUPPLY | DC 0.9~1.6 V, 150~350mA |
| FREQUENCY BAND | 2.402~2.480GHz |
| CARRIER FREQUENCY | 2.402~2.480GHz |
| NUMBER OF CHANNEL | 79 |
| CHANNEL SPACING | 1 MHz |
| RATED RF OUTPUT POWER | -6~+4 dBm (0.25~2.3mW) |
| I.F. & L.O. | L.O.:12 MHz |
| MODULATION TYPE | GFSK |
| BIT RATE OF TRANSMISSION | 1Mbps |
| DUTY CYCLE | Max 1600 hops/sec |
| ANTENNA TYPE | Multilayer Ceramic Antenna |
| ANTENNA GAIN | Max 2 dBi |
| OPERATING TEMPERATURE | 0~65°C |
| CHANNEL BANDWIDTH | 1MHz |

NOTE :

The EUT has two model numbers as below on market. They are identical in all aspects except for the color of case.

For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

2.2 DESCRIPTION OF SUPPORT UNIT

The transmitter part of EUT was tested with a PC system and configured by the requirement of ANSI C63.4. All interface ports were connected to the appropriate support units via specific cables. The support units and cables are listed below.

| NO | DEVICE | BRAND | MODEL # | FCC ID/DOC | CABLE |
|----|------------------|--------|--------------|-------------|---|
| 1 | NOTEBOOK | DELL | PP01L | DOC | 2.0m unshielded power cord |
| 2 | PRINTER | EPSON | STYLUS C20SX | DOC | 1.5m unshielded power cord 1.5m shielded data cord |
| 3 | BLUETOOTH DONGLE | MSI | MS-6970A | I4L-MS6970A | 1.8m unshielded power cord 1.5m shielded data cord |
| 4 | DC POWER SUPPLY | LEADER | LPS-161A | N/A | 1.8m unshielded power cord |

NOTE : For the actual test configuration, please refer to the photos of testing.



2.3 DESCRIPTION OF TEST MODE

This EUT is a FHSS system, we use BlueTest to control the EUT with RS232, Let EUT hopping on and transmit at every channel with highest power, Only output power use conducted method, others are using radiated method. After Sirfdemo330R1 send the command to EUT, it can be removed, and the EUT keep hopping.79 channels are provided by EUT. The 3 channels of lower, medium and higher were chosen for test.

| Channel | Frequency(MHz) |
|---------|----------------|
| 0 | 2402 |
| 39 | 2441 |
| 78 | 2480 |

NOTE :

1. Below 1 GHz, the channel 0, 39 and 78 were pre-tested in chamber. The channel 78, worst case one, was chosen for conducted and radiated emission test.
2. Above 1 GHz, the channel 0, 39 and 78 were tested individually.

3. DESCRIPTION OF APPLIED STANDARDS

The EUT is a kind of wireless product and to be connected with a PC system for normal use. According to the specifications provided by the applicant, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C

47 CFR Part 15, Subpart B

ANSI C63.4: 2003

Public DA00-705 (March 2000)

All tests have been performed and recorded as the above standards.

| | | |
|---|----------------------|--|
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4. TECHNICAL CHARACTERISTICS TEST

4.1 CHANNEL SEPARATION TEST

4.1.1 LIMIT

FCC Part15, Subpart C Section 15.247(a)(1). Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

| FREQUENCY RANGE (MHz) | Limit(kHz) |
|-----------------------|------------|
| 902-928 | >25kHz |
| 2400-2483.5 | >25kHz |
| 5725-5850 | >25kHz |

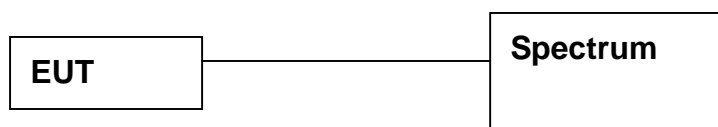
4.1.2 TEST EQUIPMENT

The following test equipment was used during the radiated emission test :

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|--------------------------|----------------|--------------------|---------------------|-----------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2006 R&S |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.1.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.1.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
 Printed out the test result from the spectrum by hard copy function.



4.1.5 EUT OPERATING CONDITION

1. Under Windows XP ran "Media Player" program and PC sent "H" pattern or accessed the following peripherals directly or via EUT:

- Color Monitor
- RS232
- Printer
- FDD
- HDD

4.1.6 TEST RESULT

| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 20°C | Humidity: | 55%RH |
| Spectrum Detector: | PK | Tested by: | Julian Chiang |
| Test Result: | PASS | Tested Date: | Aug. 26, 2005 |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | SEPARATION READ VALUE (kHz) | SEPARATION LIMIT (kHz) |
|-------------------|-------------------------------|-----------------------------------|------------------------------|
| 0 | 2402 | 1000.000 | >25kHz |
| 39 | 2441 | 1000.000 | >25kHz |
| 78 | 2480 | 1004.000 | >25kHz |



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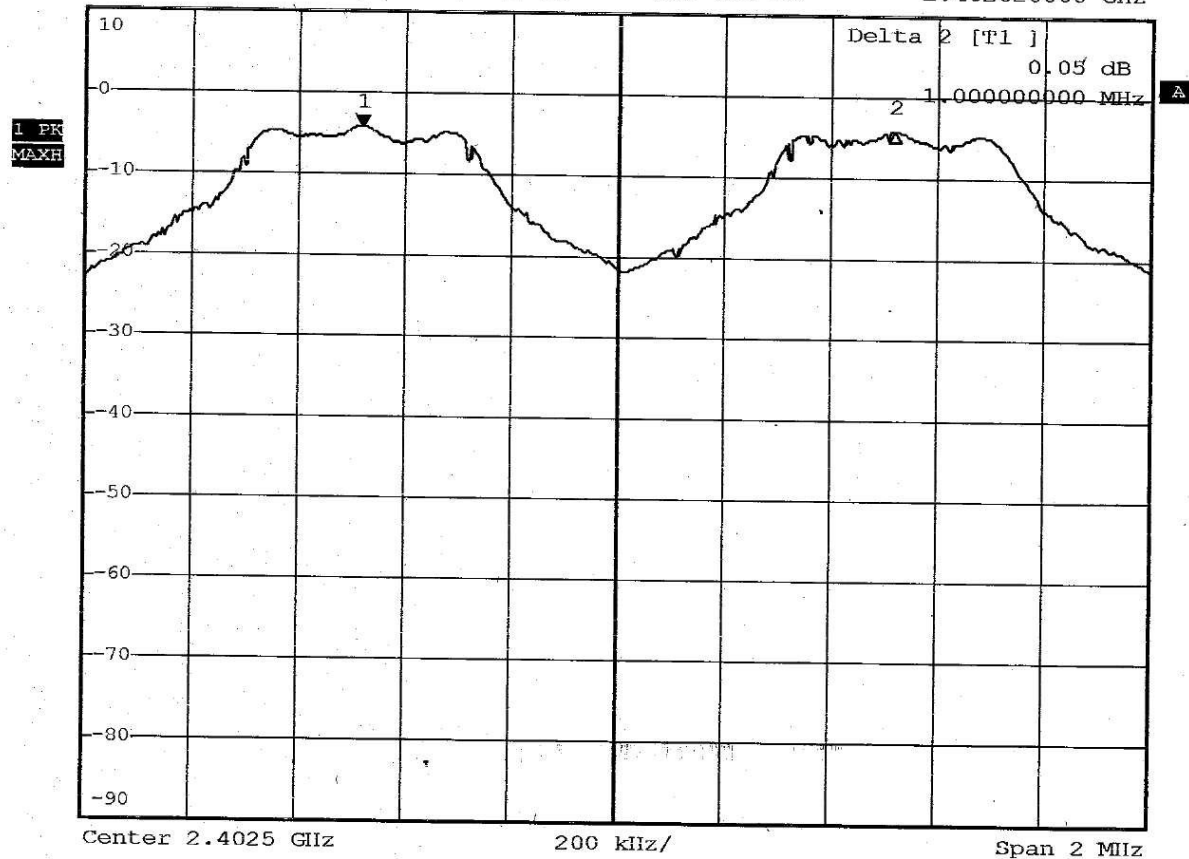
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CH0:



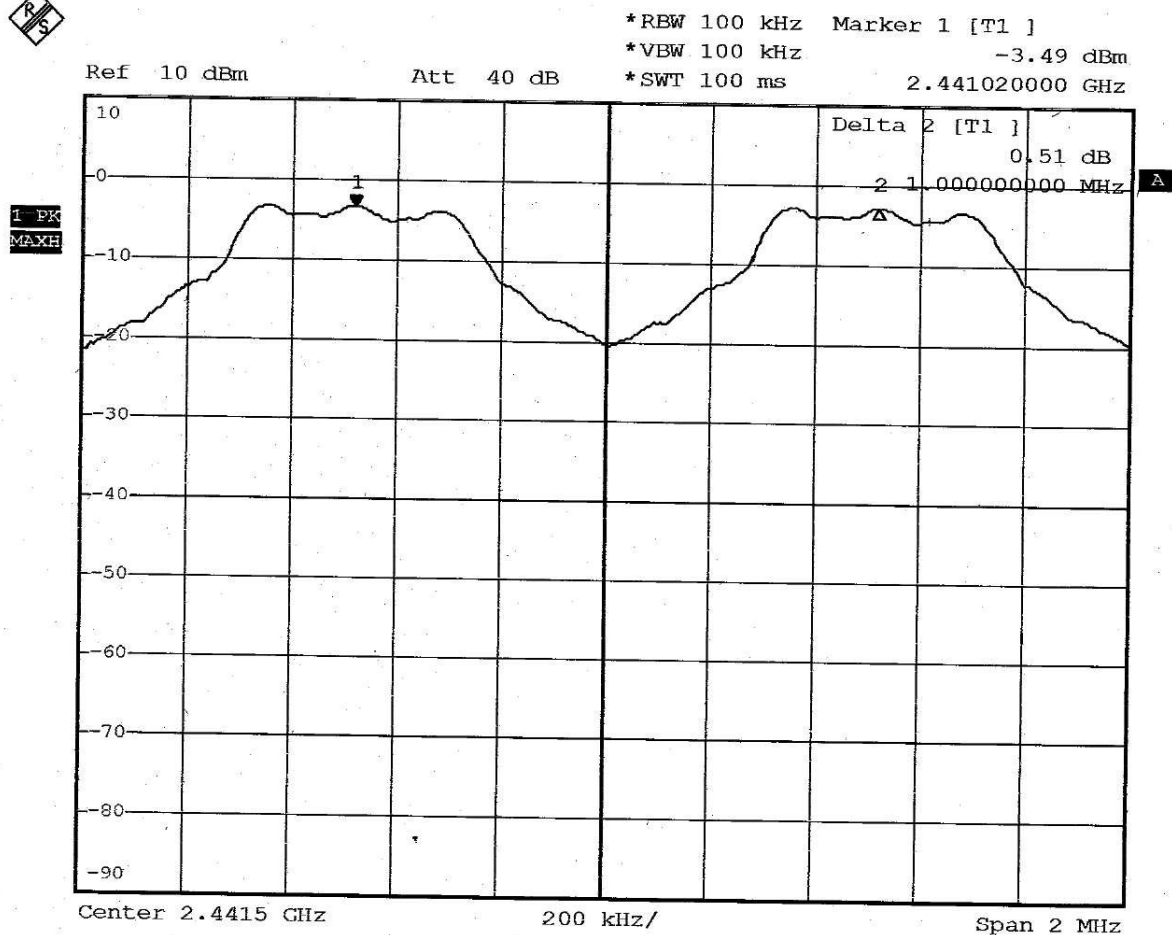
Ref 10 dBm Att 40 dB *RBW 100 kHz Marker 1 [T1]
*VBW 100 kHz -4.36 dBm
*SWT 100 ms 2.402020000 GHz





TEST REPORT

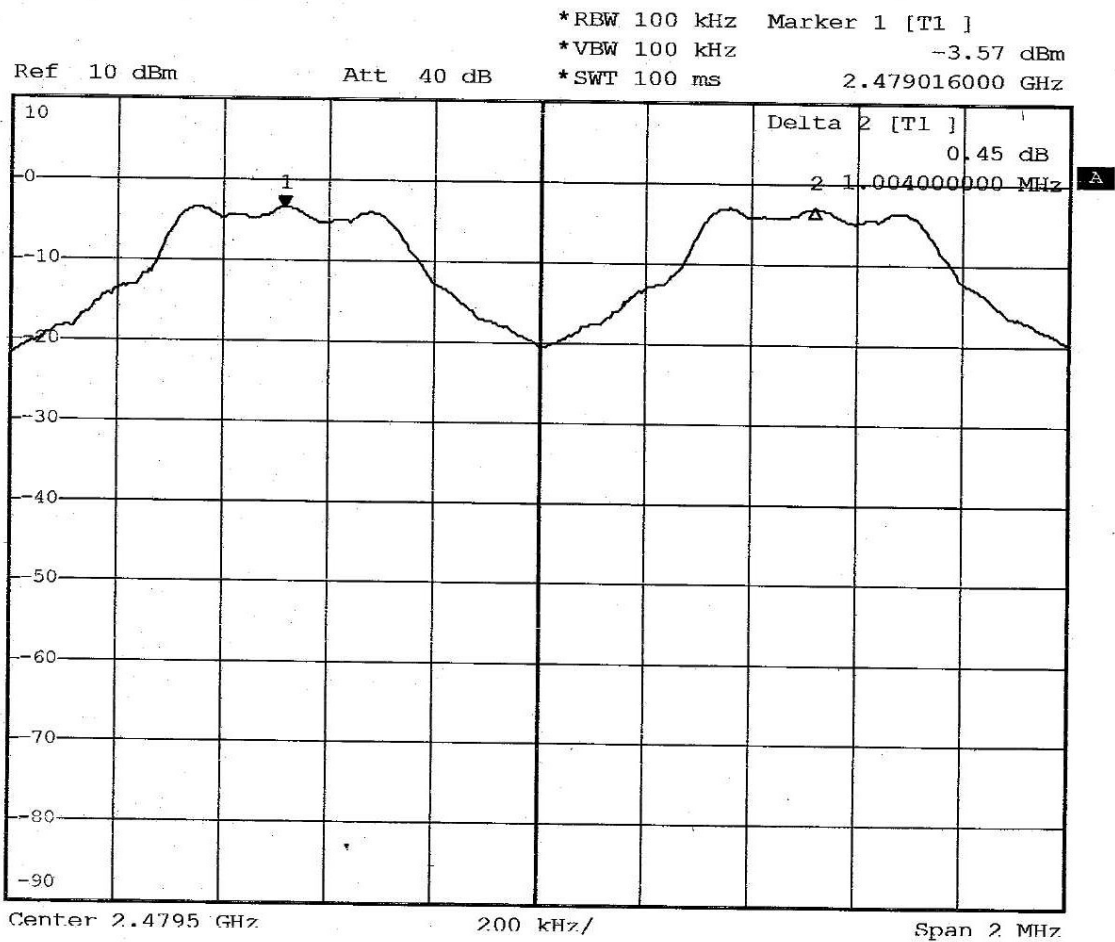
CH39:





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4.2 20dB Bandwidth

4.2.1 LIMIT

| Frequency Range (MHz) | Limit(kHz) | | | | |
|-----------------------|-----------------------------|------|------|-------|-------|
| | Quantity of Hopping Channel | 50 | 25 | 15 | 75 |
| 902-928 | | <250 | >250 | NA | NA |
| 2400-2483.5 | | NA | NA | >1000 | <1000 |

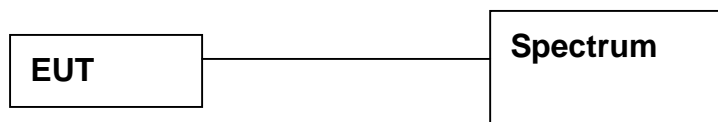
4.2.2 TEST EQUIPMENT

The following test equipment was used during the test:

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|--------------------------|----------------|--------------------|---------------------|-----------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2006 R&S |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.2.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.2.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
 Printed out the test result from the spectrum by hard copy function.

4.2.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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4.2.6 TEST RESULT

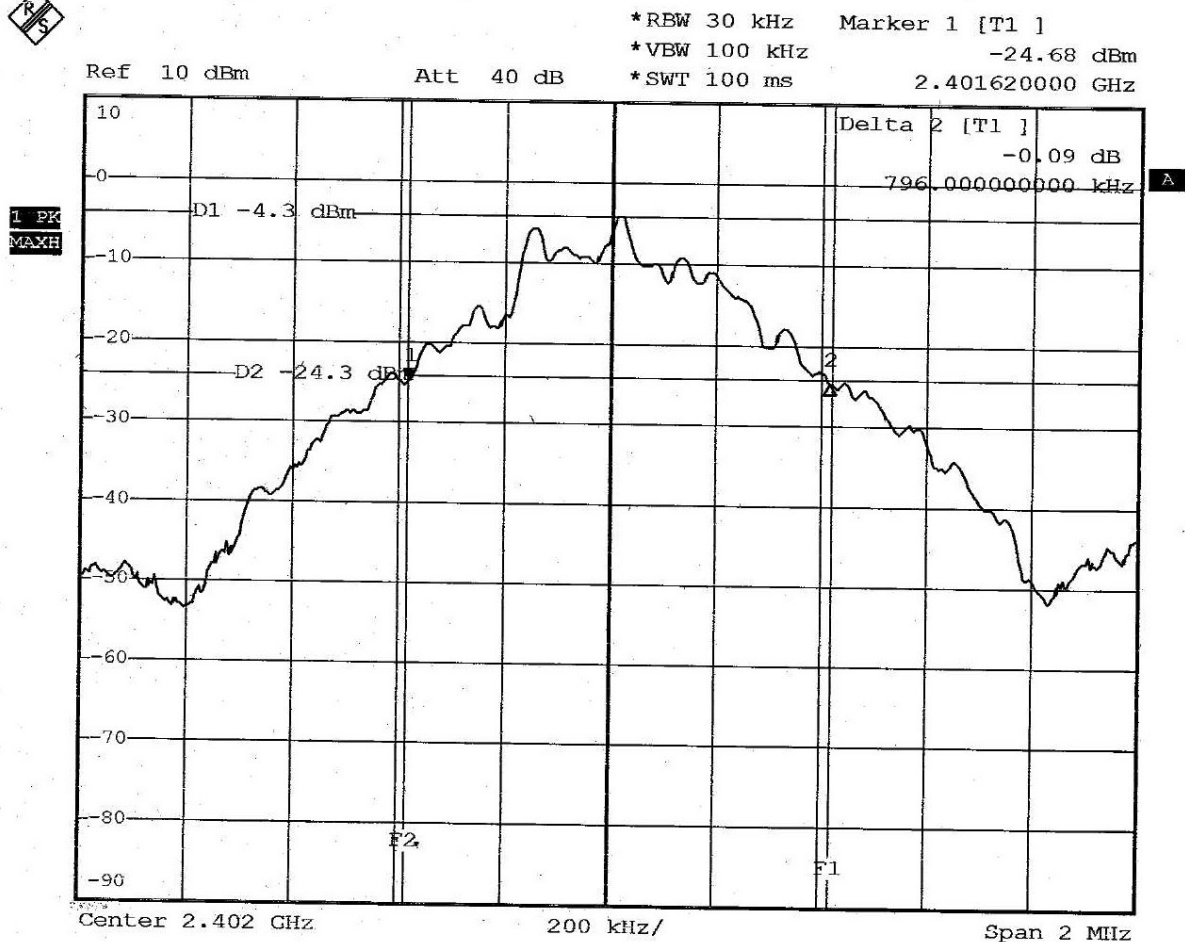
| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 20°C | Humidity: | 55%RH |
| Spectrum Detector: | PK | Tested by: | Julian Chiang |
| Test Result: | PASS | Tested Date: | Aug. 26, 2005 |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | 20dB DOWN BW (kHz) |
|-------------------|-------------------------------|--------------------------|
| 0 | 2402 | 796 |
| 39 | 2441 | 792 |
| 78 | 2480 | 792 |



TEST REPORT

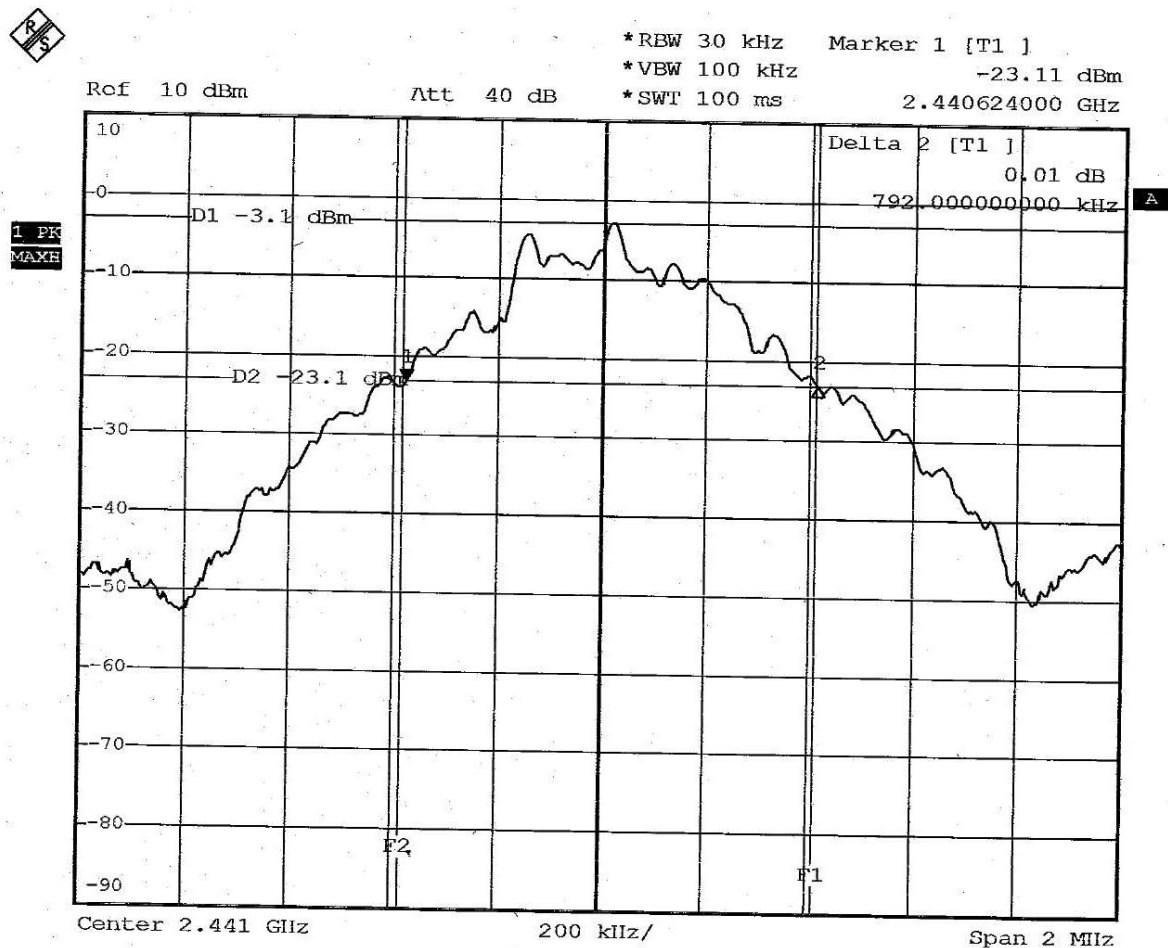
CH0:





TEST REPORT

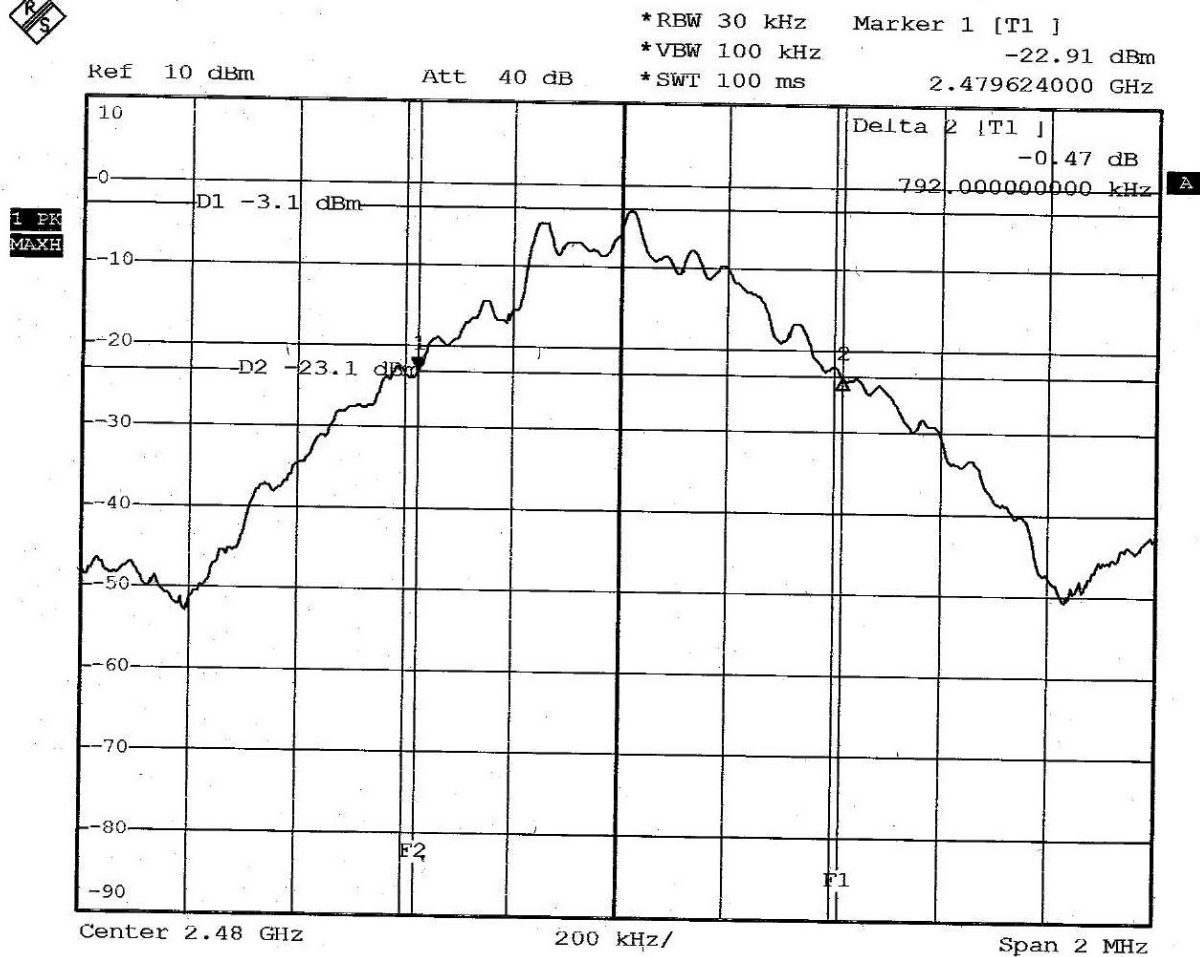
Ch39:





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| | | |
|---|----------------------|---|
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|---|----------------------|---|

4.3 QUANTITY OF HOPPING CHANNEL TEST

4.3.1 LIMIT

FCC Part15, Subpart C Section 15.247.

| FREQUENCY RANGE (MHz) | Limit (Quantity of Hopping Channel) | | | |
|-----------------------|-------------------------------------|------------------------|----------------------|----------------------|
| | 20dB bandwidth <250kHz | 20dB bandwidth >250kHz | 20dB bandwidth <1MHz | 20dB bandwidth >1MHz |
| 902-928 | 50 | 25 | N/A | N/A |
| 2400-2483.5 | N/A | N/A | 75 | 15 |
| 5725-5850 | N/A | N/A | 75 | N/A |

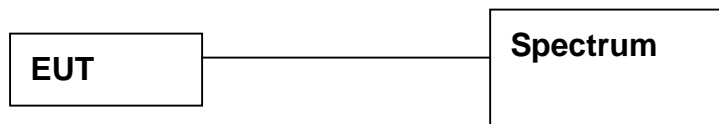
4.3.2 TEST EQUIPMENT

The following test equipment was used during the test:

| EQUIPMENT/FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|----------------------|----------------|-----------------|---------------------|--------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2006 R&S |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST SET-UP



The EUT was connected to a spectrum through a 50 Ω RF cable.

4.3.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
 Printed out the test result from the spectrum by hard copy function.

4.3.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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TEST REPORT

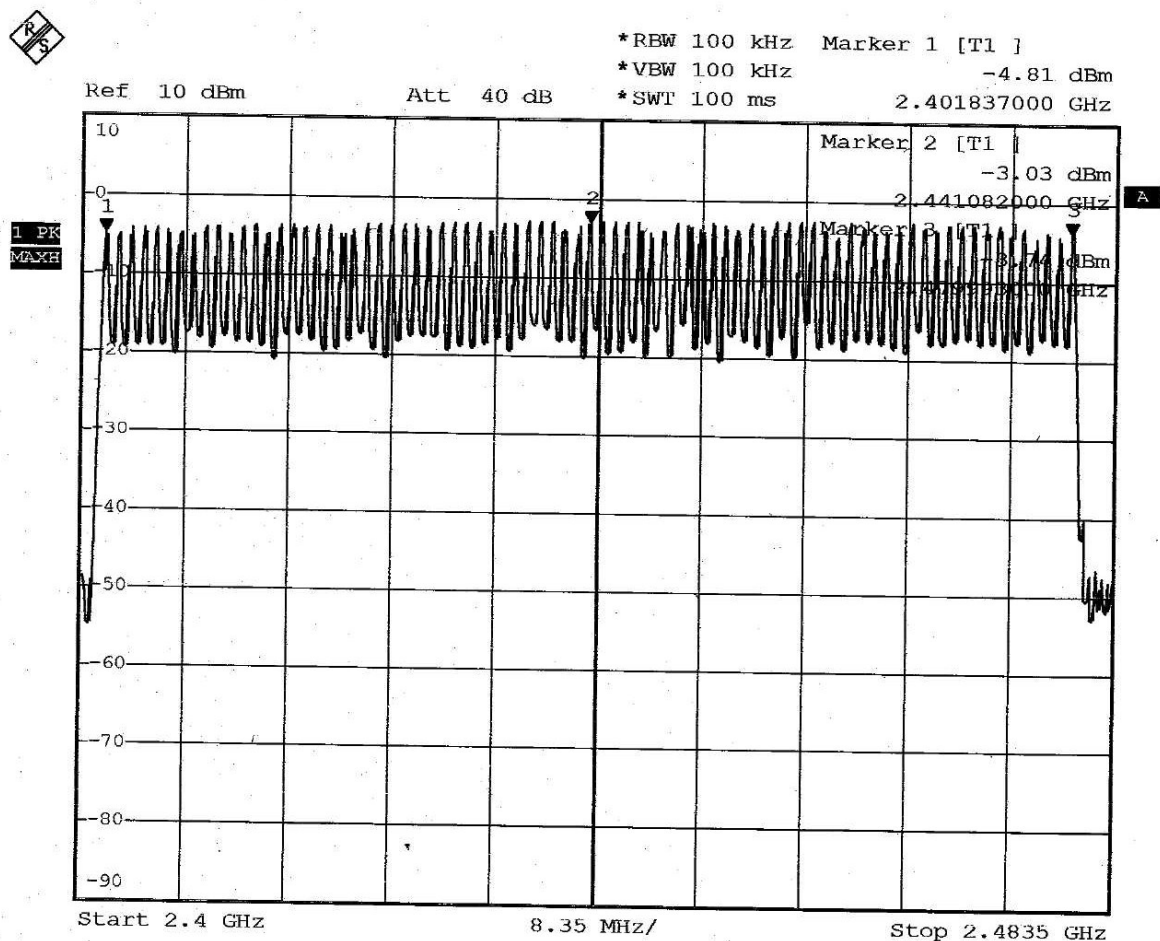
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4.3.6 TEST RESULT

| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 20°C | Humidity: | 55%RH |
| Spectrum Detector: | PK | Tested by: | Julian Chiang |
| Test Result: | PASS | Tested Date: | Aug. 26, 2005 |

| HOPPING CHANNEL FREQUENCY RANGE | QUANTITY OF HOPPING CHANNEL READ VALUE | QUANTITY OF HOPPING CHANNEL LIMIT |
|---------------------------------------|---|--------------------------------------|
| 2402~2480 | 79 | 75 |

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| | | |
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4.4 Time of occupancy (Dwell Time)

4.4.1 LIMIT

FCC Part15, Subpart C Section 15.247.

| FREQUENCY RANGE (MHz) | LIMIT (ms) | | |
|-----------------------|-----------------------------------|-----------------------------------|---------------------------------|
| | 20dB bandwidth <250kHz(50Channel) | 20dB bandwidth >250kHz(25Channel) | 20dB bandwidth <1MHz(75Channel) |
| 902-928 | 400(20s) | 400(10s) | NA |
| 2400-2483.5 | NA | NA | 400(30s) |
| 5725-5850 | NA | NA | 400(30s) |

NOTE: The “()” is all channel’s average time of occupancy.

4.4.2 TEST EQUIPMENT

The following test equipment was used during the test:

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|----------------|-----------------|---------------------|--------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2006 R&S |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.3 TEST SET-UP



The EUT was connected to a spectrum through a 50Ω RF cable.

4.4.4 TEST PROCEDURE

The EUT was operating in hopping mode or could be controlled its channel.
 Printed out the test result from the spectrum by hard copy function.

4.4.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.



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4.4.6 TEST RESULT

| | | | |
|--------------------|------|--------------|---------------|
| Temperature: | 20°C | Humidity: | 55%RH |
| Spectrum Detector: | PK | Tested by: | Julian Chiang |
| Test Result: | PASS | Tested Date: | Aug.26, 2005 |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | Pulse Time (μs) | Burts (in 1 sec.) | Time of occupancy (Dwell Time) (ms) | Average time of occupancy LIMIT (ms) |
|-------------------|-------------------------------|-----------------------|----------------------|--|---|
| 0 | 2402.00 | 418 | 10 | 125.4 | 400 |
| 39 | 2441.00 | 414 | 10 | 124.2 | 400 |
| 78 | 2480.00 | 418 | 10 | 125.4 | 400 |

Note:

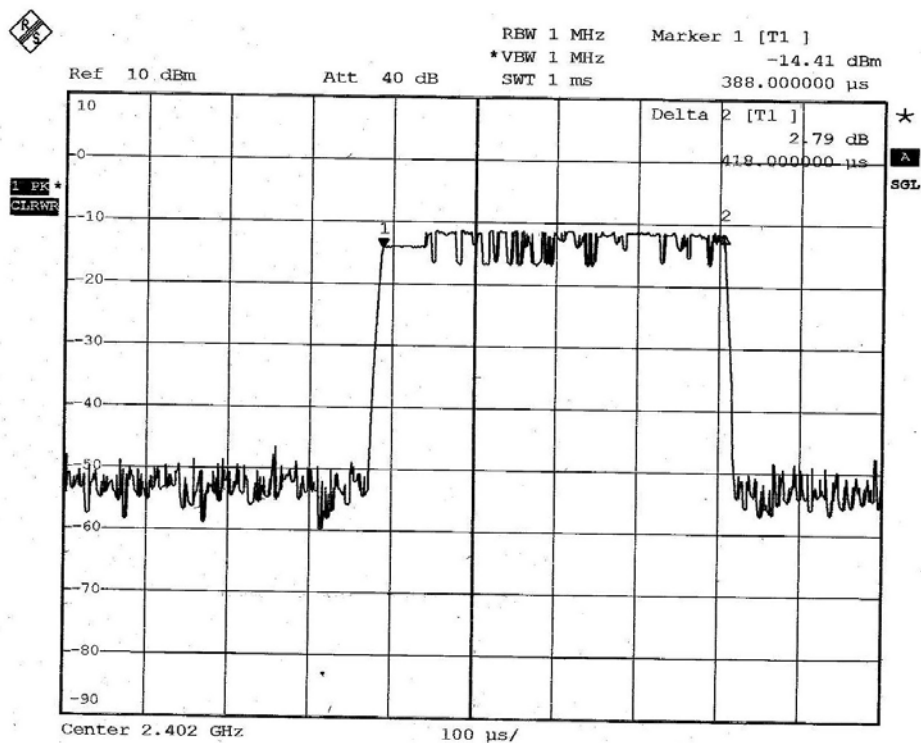
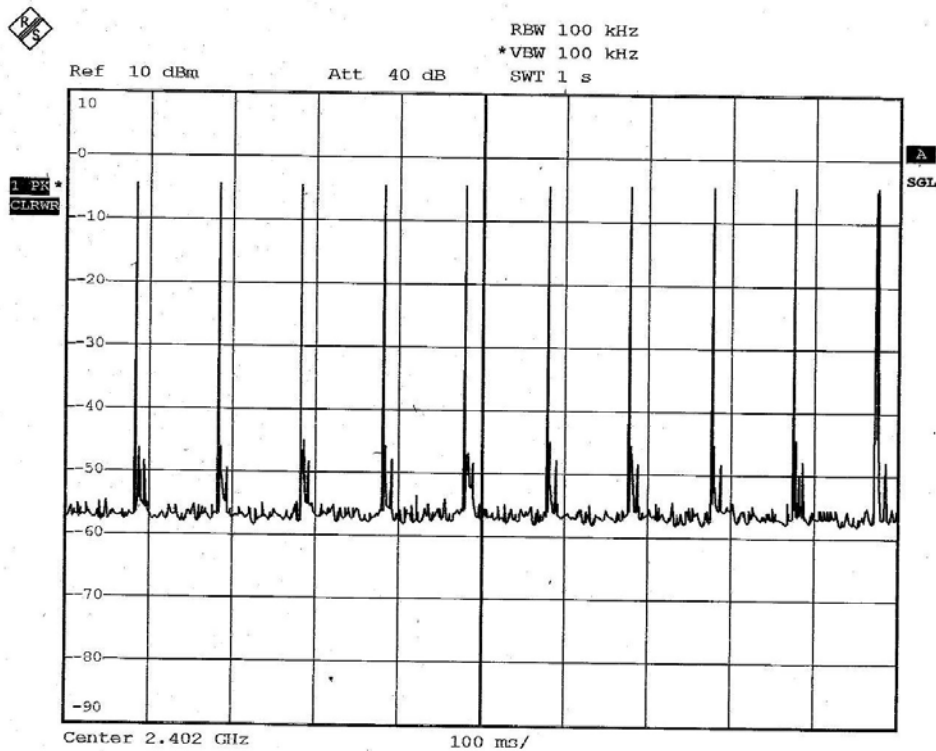
Dwell Time:

Pulse Time*Burts*0.4*79



TEST REPORT

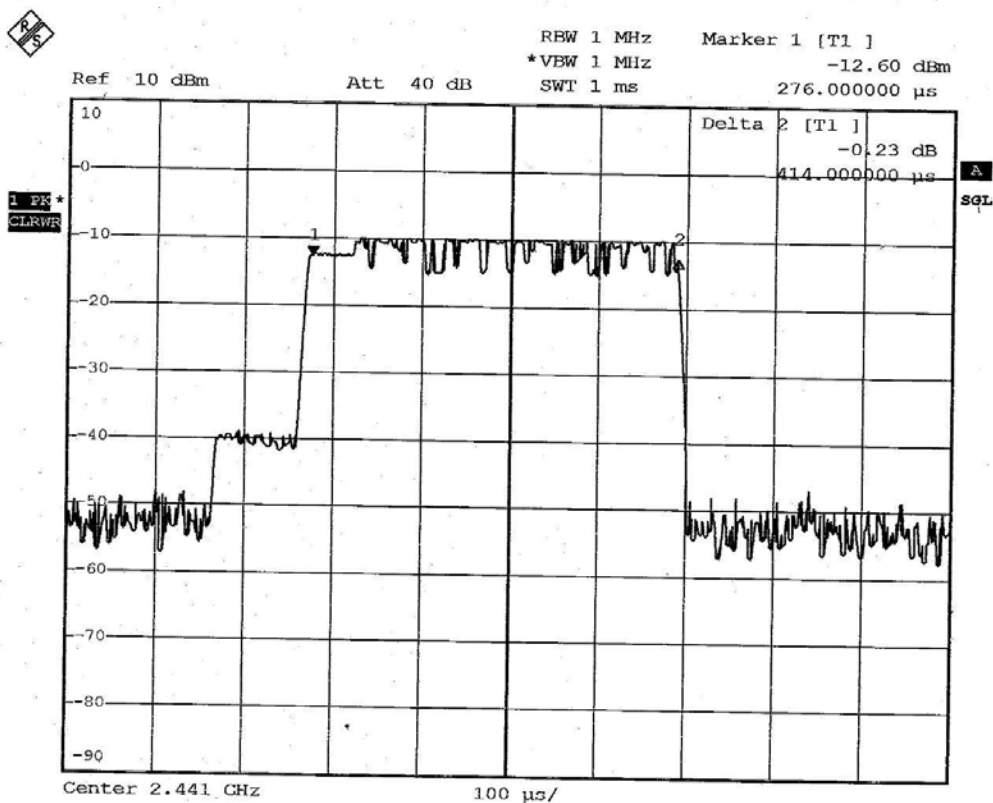
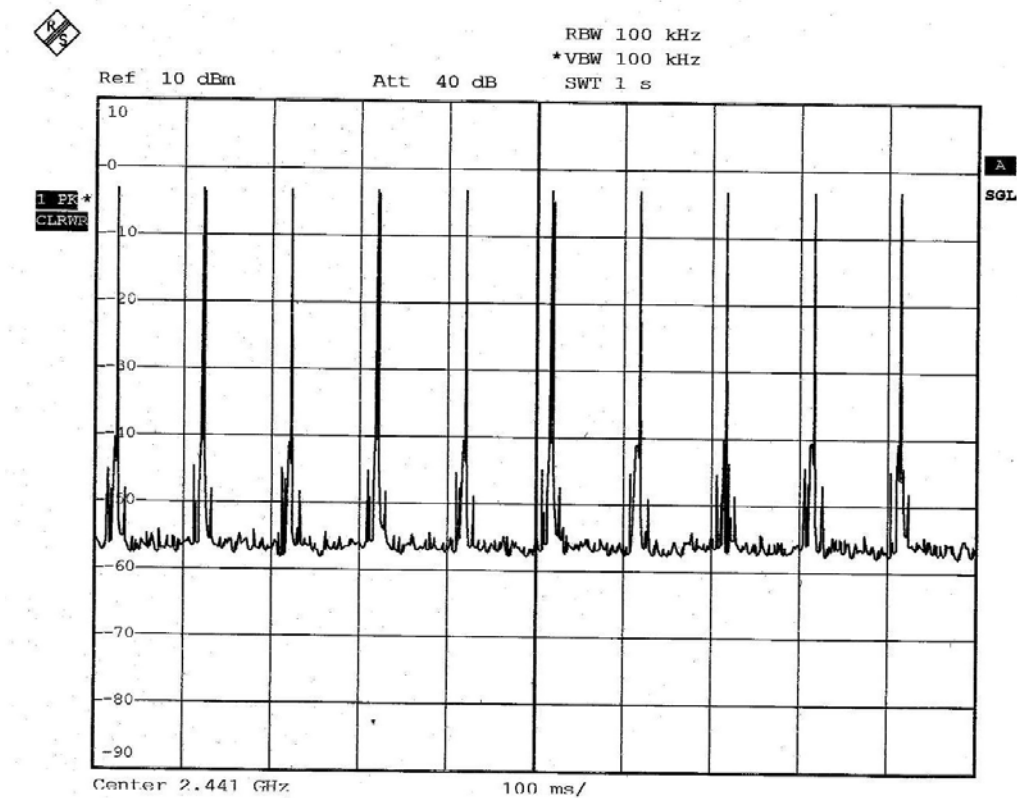
CH0:





TEST REPORT

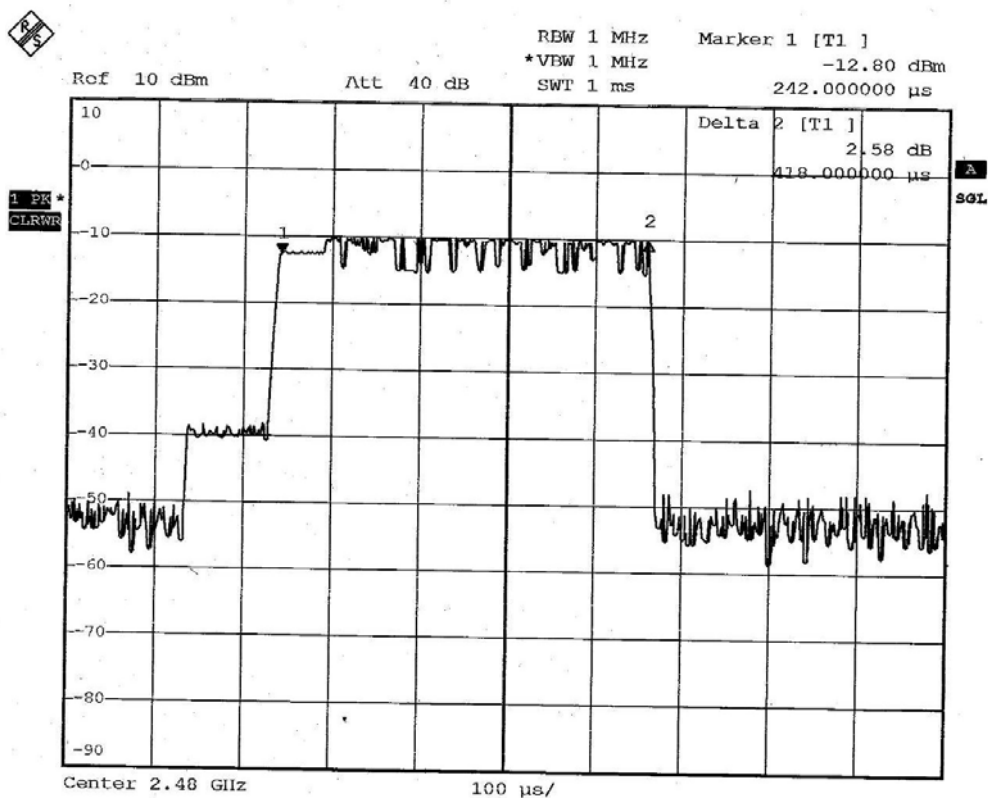
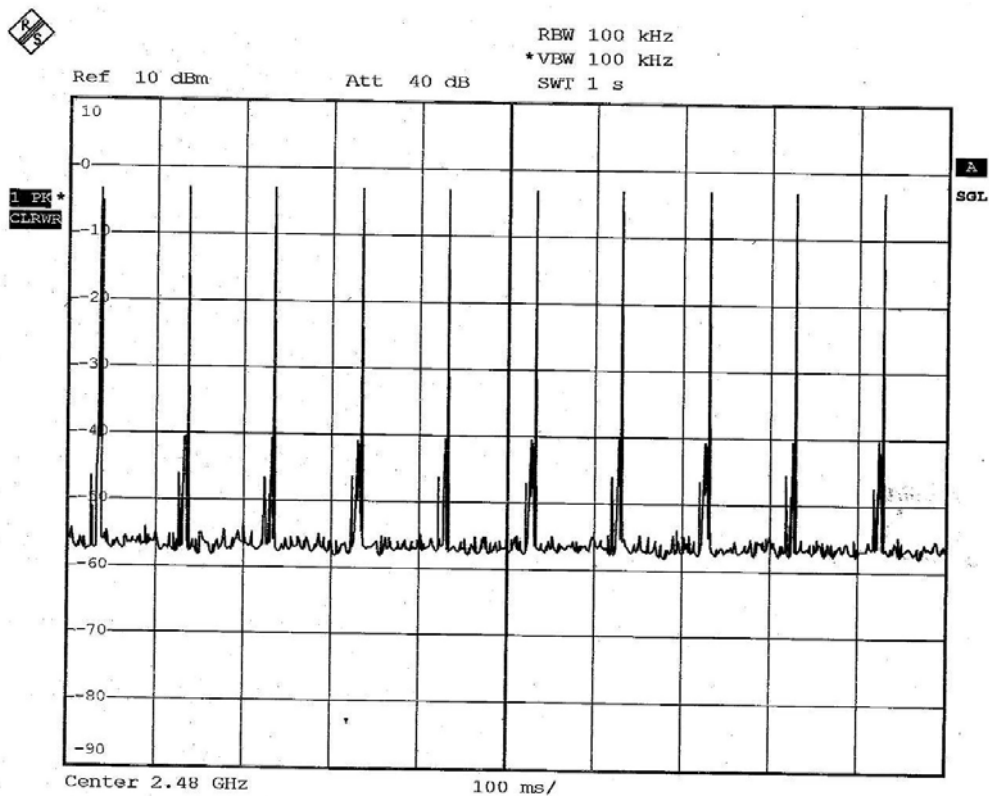
Ch39:





TEST REPORT

CH78:



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4.5 PEAK POWER TEST

4.5.1 LIMIT

FCC Part15, Subpart C Section 15.247.

| FREQUENCY RANGE (MHz) | LIMIT (W) | | | | |
|-----------------------|-----------------------------|----------|--------------|--------------|----------|
| | Quantity of Hopping Channel | 50 | 25 | 15 | 75 |
| 902-928 | | 1(30dBm) | 0.125(21dBm) | NA | NA |
| 2400-2483.5 | | NA | NA | 0.125(21dBm) | 1(30dBm) |
| 5725-5850 | | NA | NA | NA | 1(30dBm) |

4.5.2 TEST EQUIPMENT

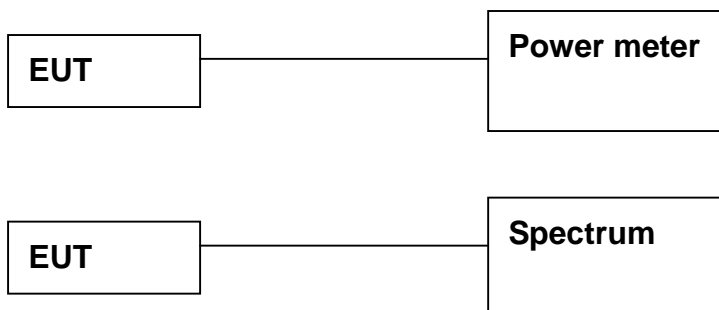
The following test equipment was used during the test :

| EQUIPMENT/ FACILITIES | SPECIFICATIONS | MANUFACTURER | MODEL#/ SERIAL# | DUE DATE OF CAL. & CAL. CENTER |
|-----------------------|--|-----------------|------------------|--------------------------------|
| SPECTRUM | 9kHz-7GHz | ROHDE & SCHWARZ | FSP7/ 839511/010 | APR. 2006 R&S |
| POWER METER | N/A | BOONTON | 4232A/ 29001 | MAY 2006 ETC |
| POWER SENSOR | DC-18GHz 0.3 μ W-100mW 50 Ω | BOONTON | 51011-EMC/ 31184 | JUN. 2006 ETC |

NOTE: The calibration interval of the above test equipment is one year and the calibrations are traceable to NML/ROC and NIST/USA.



4.5.3 TEST SET-UP



The EUT was connected to a spectrum through a 50 Ω RF cable.

4.5.4 TEST PROCEDURE

The EUT was operating in hopping mode or could control its channel.
Printed out the test result from the spectrum by hard copy function.
Recorded the read value of the power meter.

4.5.5 EUT OPERATING CONDITION

Same as section 4.1.5 of this report.

4.5.6 TEST RESULT

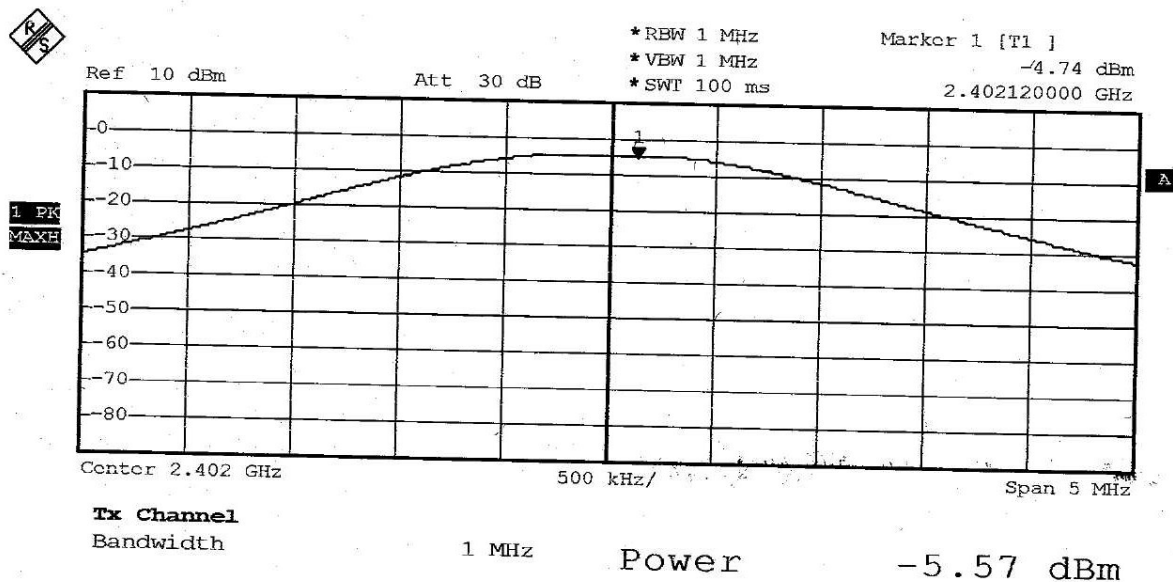
| | | | |
|--------------------|-------------|--------------|----------------------|
| Temperature: | <u>20°C</u> | Humidity: | <u>55%RH</u> |
| Spectrum Detector: | <u>PK</u> | Tested by: | <u>Julian Chiang</u> |
| Test Result: | <u>PASS</u> | Tested Date: | <u>Aug. 26, 2005</u> |

| CHANNEL NUMBER | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) |
|-------------------|-------------------------------|-------------------------------|------------------------------|
| 0 | 2402.0000 | -5.57 | 30 |
| 39 | 2441.0000 | -3.79 | 30 |
| 78 | 2480.0000 | -4.32 | 30 |

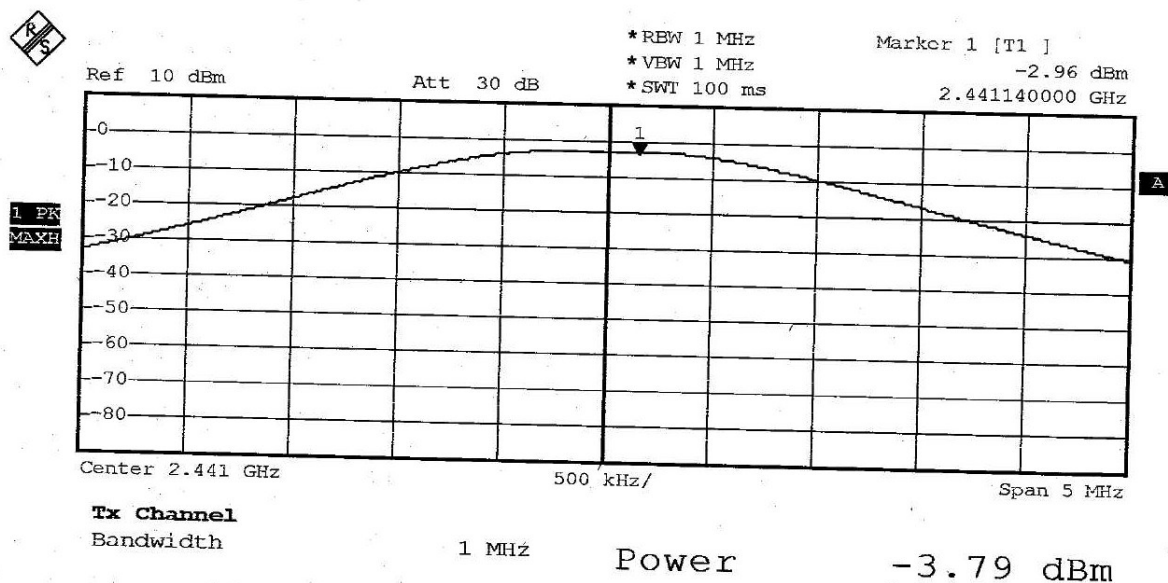


TEST REPORT

CH0:



CH39:





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