*FCC PART 15, SUBPART B and C*
*TEST REPORT*

*for*

# MYOPAC WIRELESS TRANSMITTER

# MODEL: T50-6

Prepared for

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PASADENA, CALIFORNIA 91107

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DATE: MAY 6, 2010

| | REPORT BODY | APPENDICES | | | | | TOTAL |
|---|---|---|---|---|---|---|---|
| | | *A* | *B* | *C* | *D* | *E* | |
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# GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

| | |
|---|---|
| Device Tested: | Myopac Wireless Transmitter<br>Model: T50-6<br>S/N: N/A |
| Product Description: | See Expository Statement. |
| Modifications: | There were no modifications made to the EUT during the testing. |
| Manufacturer: | Konigsberg Instruments, Inc.<br>2000 Foothill Blvd.<br>Pasadena, California 91107 |
| Test Dates: | April 16, 19, and 20, 2010 |
| Test Specifications: | EMI requirements<br>CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.247 |
| Test Procedure: | ANSI C63.4: 2003 |
| Test Deviations: | The test procedure was not deviated from during the testing. |

# SUMMARY OF TEST RESULTS

| *TEST* | DESCRIPTION | RESULTS |
|---|---|---|
| 1 | Conducted RF Emissions, 150 kHz – 30 MHz | This test was not performed because the EUT will be battery powered only. |
| 2 | Spurious Radiated RF Emissions, 10 kHz – 9300 MHz | Complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.247(d)<br>Highest reading in relation to spec limit: 33.63 dBuV @ 480.044 MHz (*U = 5.13 dB) |
| 3 | Fundamental and Emissions produced by the intentional radiator in non-restricted bands, 10 kHz – 9300 MHz | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d) |
| 4 | Emissions produced by the intentional radiator in restricted bands, 10 kHz – 9300 MHz | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209(a), and section 15.247 (d) |
| 5 | 6 dB Bandwidth | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(a)(2) |
| 6 | Peak Power Output | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(b)(3) |
| 7 | RF Conducted Antenna Test | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d) |
| 8 | Peak Power Spectral Density Conducted from the Intentional Radiator to the Antenna | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (e) |

*U = Expanded Uncertainty with a coverage factor of k=2

# 1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Myopac Wireless Transmitter, Model: T50-6. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the Class B specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.247.

Note: For the unintentional radiator portion of the test, the EUT was within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B.

# 2. ADMINISTRATIVE DATA

## 2.1 Location of Testing

The EMI tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823.

## 2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

## 2.3 Cognizant Personnel

| | |
|---|---|
| William J. Mills | General Manager |

Compatible Electronics Inc.

| | |
|---|---|
| Kyle Fujimoto | Test Engineer |
| James Ross | Test Engineer |

## 2.4 Date Test Sample was Received

The EUT was received on April 12, 2010.

## 2.5 Disposition of the Test Sample

The EUT was returned to Konigsberg Instruments, Inc. on April 20, 2010.

## 2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

| | |
|---|---|
| RF | Radio Frequency |
| EMI | Electromagnetic Interference |
| EUT | Equipment Under Test |
| P/N | Part Number |
| S/N | Serial Number |
| HP | Hewlett Packard |
| ITE | Information Technology Equipment |
| CML | Corrected Meter Limit |
| LISN | Line Impedance Stabilization Network |
| N/A | Not Applicable |

## 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

| SPEC | TITLE |
|---|---|
| FCC Title 47, Part 15 Subpart C | FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators |
| ANSI C63.4 2003 | Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz |
| FCC Title 47, Part 15 Subpart B | FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators |

# 4. DESCRIPTION OF TEST CONFIGURATION

## 4.1 Description of Test Configuration - EMI

**Tyco Antenna:** The Myopac Wireless Transmitter, Model: T50-6 (EUT) was connected to two metal bars via its J1, J2, and J3 ports. A voltage divider was also connected to the cable attached to the J3 port and to the two metal bars. A signal generator was also connected to the voltage divider. The EUT was continuously transmitting.

**Note:** A laptop was connected to the USB port of the EUT only to change the channel of the EUT. The USB port is for diagnostic purposes only (i.e. troubleshooting the EUT) and will not be connected during normal usage.

It was determined that the emissions were at their highest level when the EUT was operating in the above configurations. The final emissions data was taken in both mode of operations mentioned above and any cables were maximized. All initial investigations were performed with the EMI Receiver in manual mode scanning the frequency range continuously. Photographs of the test setup are in Appendix D of this report.

### 4.1.1 Cable Construction and Termination

**Cable 1** This is a 1.5-meter braid shielded cable connecting the signal generator to the voltage divider. The cable has metallic BNC connectors at each end. The shield of the cable was grounded to the chassis via the connectors.

**Cable 2** This is a 1.5-meter braid shielded cable connecting the EUT's J1 port to two metal bars. The cable has a D-37 pin metallic connector at the EUT end and eight red alligator clips connected to the first metal bar and eight black alligator clips connected to the second metal bar.

**Cable 3** This is a 1.5-meter braid shielded cable connecting the EUT's J2 port to two metal bars. The cable has a D-37 pin metallic connector at the EUT end and eight red alligator clips connected to the first metal bar and eight black alligator clips connected to the second metal bar.

**Cable 4** This is a 1.5-meter braid shielded cable connecting the EUT's J3 port to two metal bars. The cable has a D-37 pin metallic connector at the EUT end and four red alligator clips connected to the first metal bar and four black alligator clips connected to the second metal bar.

**Cable 5** This is a 30-centimeter unshielded cable connecting the voltage divider with cable #4. The cable has a green alligator clip at each end.

**Cable 6** This is a 40-centimeter unshielded cable connecting the voltage divider with the first metal bar. The cable has a red alligator clip at each end.

**Cable 7** This is a 40-centimeter unshielded cable connecting the voltage divider with the second metal bar. The cable has a black alligator clip at each end.

# 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

## 5.1 EUT and Accessory List

| EQUIPMENT | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|---|---|---|---|---|
| MYOPAC WIRELESS TRANSMITTER (EUT) | KONIGSBERG INSTRUMENTS, INC. | T50-6 | 0102 | YCU-T50 |
| FUNCTION/ARBITRARY WAVEFORM GENERATOR | AGILENT TECHNOLOGIES | 33120A | MY40000137 | N/A |
| VOLTAGE DIVIDER | KOIGSBERG INSTRUMENTS, INC. | PE140-1 | 1358 | N/A |
| ANTENNA | ANTENNA FACTOR | ANT-916-CW-HD | N/A | N/A |
| LAPTOP | COMPAQ | 515 | CNU9459NN9 | DoC |

## 5.2 EMI Test Equipment

| EQUIPMENT TYPE | MANU-FACTURER | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE | CALIBRATION DUE DATE |
|---|---|---|---|---|---|
| **GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS** | | | | | |
| Computer | Hewlett Packard | 4530 | US91912319 | N/A | N/A |
| EMI Receiver | Rohde & Schwarz | ESIB40 | 100194 | September 17, 2008 | Sept. 17, 2010 |
| Spectrum Analyzer – Main Section | Hewlett Packard | 8566B | 3638A08784 | May 29, 2009 | May 29, 2010 |
| Spectrum Analyzer – Display Section | Hewlett Packard | 85662A | 2648A14530 | May 29, 2009 | May 29, 2010 |
| Quasi-Peak Adapter | Hewlett Packard | 85650A | 2430A00424 | May 29, 2009 | May 29, 2010 |
| Monitor | Hewlett Packard | D5258A | TW74500641 | N/A | N/A |
| **RF RADIATED EMISSIONS TEST EQUIPMENT** | | | | | |
| CombiLog Antenna | Com Power | AC-220 | 61027 | June 12, 2009 | June 12, 2010 |
| Preamplifier | Com-Power | PA-103 | 1582 | January 6, 2010 | January 6, 2011 |
| Loop Antenna | Com-Power | AL-130 | 17089 | September 29, 2008 | Sept. 29, 2010 |
| Horn Antenna | Com-Power | AH-118 | 071175 | March 18, 2010 | March 18, 2012 |
| Microwave Preamplifier | Com-Power | PA-122 | 181921 | March 10, 2010 | March 11, 2011 |
| Antenna Mast | Com Power | AM-100 | N/A | N/A | N/A |

## 5.3 EMI Test Equipment (Continued)

| EQUIPMENT TYPE | MANU-FACTURER | MODEL NUMBER | SERIAL NUMBER | CALIBRATION DATE | CALIBRATION DUE DATE |
|---|---|---|---|---|---|
| **RF POWER OUPUT TEST EQUIPMENT** | | | | | |
| Power Measuring Analyzer | Boonton Electronics | 4500A-01 | 1282 | June 20, 2008 | June 20, 2010 |
| Peak Power Sensor | Boonton Electronics | 57318 | 3723 | June 25, 2008 | June 25, 2010 |

# 6. TEST SITE DESCRIPTION

## 6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

## 6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

# 7. CHARACTERISTICS OF THE TRANSMITTER

## 7.1 Channel Number and Frequencies

Channel 1: 911 MHz
Channel 2: 912 MHz
Channel 3: 913 MHz
Channel 4: 914 MHz
Channel 5: 915 MHz
Channel 6: 916 MHz
Channel 7: 917 MHz
Channel 8: 918 MHz
Channel 9: 919 MHz

## 7.2 Antenna Gain

The antenna gain of the antenna is 0.04 dBi.

# 8. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

## 8.1 RF Emissions

### 8.1.1 Conducted Emissions Test

The Spectrum Analyzer was used as a measuring meter. The data was collected with the EMI Receiver in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the Spectrum Analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the Spectrum Analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 2003. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the EMI Receiver at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

**Test Results:**

This test was not performed because the EUT will be battery powered only.

### 8.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver and Spectrum Analyzer were used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The EMI Receiver and Spectrum Analyzer were used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver and Spectrum Analyzer record the highest measured reading over all the sweeps.

The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 10 Hz and putting the sweep time on AUTO on the spectrum analyzer to keep the amplitude reading calibrated.

The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER |
|---|---|---|
| 10 kHz to 150 kHz | 200 Hz | Active Loop Antenna |
| 150 kHz to 30 MHz | 9 kHz | Active Loop Antenna |
| 30 MHz to 300 MHz | 120 kHz | CombiLog Antenna |
| 300 MHz to 1 GHz | 120 kHz | CombiLog Antenna |
| 1 GHz to 9.3 GHz | 1 MHz | Horn Antenna |

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2003. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT by the Radiated Emission Manual Test software. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

## Radiated Emissions (Spurious and Harmonics) Test (con't)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain the final test data.

**Test Results:**

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 and 15.247 (d) for radiated emissions. Please see Appendix E for the data sheets.

## 8.2 6 dB Bandwidth

The 6 dB bandwidth was measured using the EMI Receiver. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

**Test Results:**

This test complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (a)(2).

## 8.3 Peak Output Power

The Peak Output Power was taken using the power meter and power sensor. The EUT was directly connected to the power sensor, which was directly connected to the power meter. The Peak Output Power was then taken.

**Test Results:**

This test complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (b)(3).

## 8.4 RF Antenna Conducted Test

The RF antenna conducted test was taken using the EMI Receiver. The RF antenna conducted test was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The resolution bandwidth was 100 kHz, and the video bandwidth 300 kHz. The spans were wide enough to include all the harmonics and emissions that were produced by the intentional radiator.

**Test Results:**

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power that is produced by the intentional radiator is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. Please see the radiated emission data sheets located in Appendix E.

## 7.5 RF Band Edges

The RF band edges were taken at the edges of the ISM spectrum (902 MHz when the EUT was on the low channel and 928 MHz when the EUT was on the high channel) using the EMI Receiver. The RBW was set to 100 kHz and the VBW was set to 300 kHz. Plots of the fundamental were taken to ensure the amplitude at the band edges were at least 20 dB down from the peak of the fundamental emission.

**Test Results:**

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power at the band edges at 902 MHz and 928 MHz meet the requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). Please see the data sheets located in Appendix E.

## 8.7 Spectral Density Test

The spectral density output was measured using the EMI Receiver. The spectral density output was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The resolution bandwidth was 3 kHz, and the video bandwidth was 10 kHz. The highest 1.5 MHz of the signal was used as the frequency span with the sweep rate being 1 second for every 3 kHz of span.

**Test Results:**

This test complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (e).

## 8. CONCLUSIONS

The Myopac Wireless Transmitter Model: T50-6 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.247.

Note: For the unintentional radiator portion of the test, the EUT was within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B.

# APPENDIX A

# *LABORATORY RECOGNITIONS*

# *LABORATORY RECOGNITIONS*

**Compatible Electronics has the following agency accreditations:**

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

**Compatible Electronics is recognized or on file with the following agencies:**

Federal Communications Commission

Industry Canada

# APPENDIX B

# *MODIFICATIONS TO THE EUT*

# MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC 15.247 specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during the testing.

# APPENDIX C

# *ADDITIONAL MODELS COVERED UNDER THIS REPORT*

# ADDITIONAL MODELS COVERED UNDER THIS REPORT

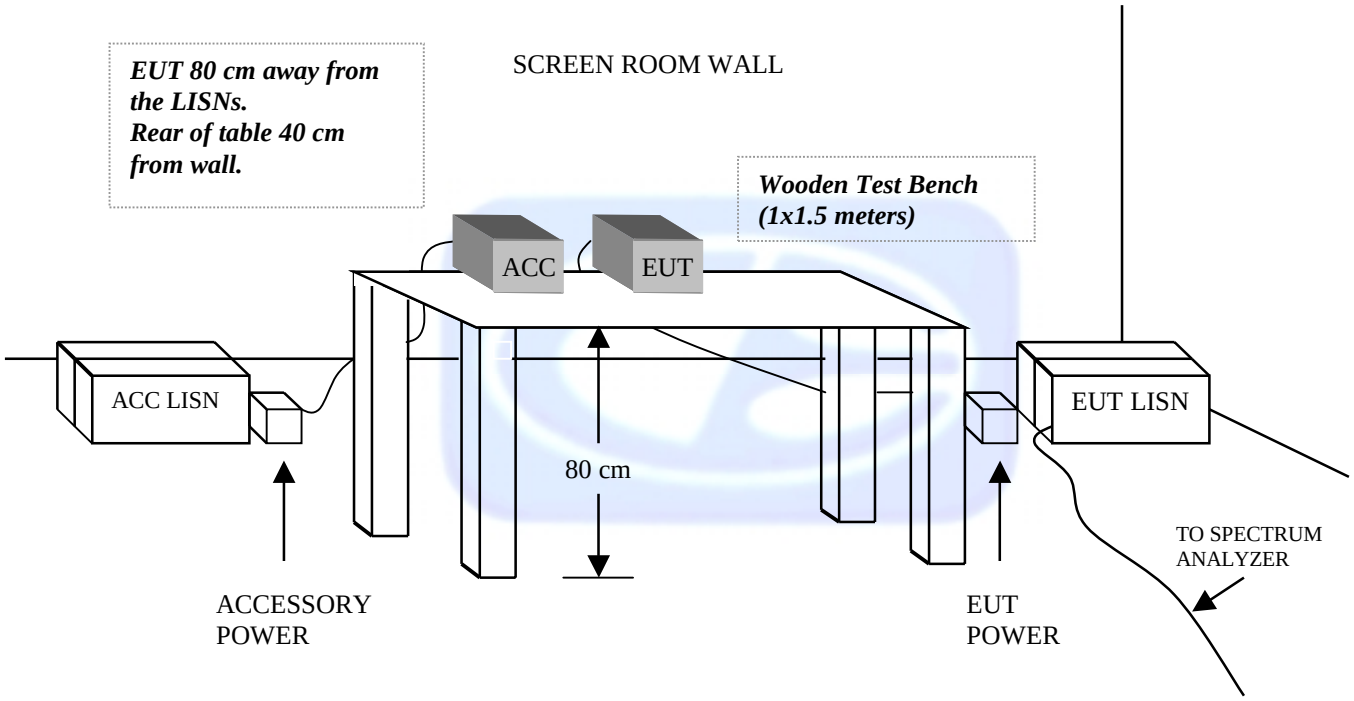
| | |
|---|---|
| USED FOR THE PRIMARY TEST | Myopac Wireless Transmitter<br>Model: T50-6<br>S/N: N/A |

There were no additional models covered under this test report.

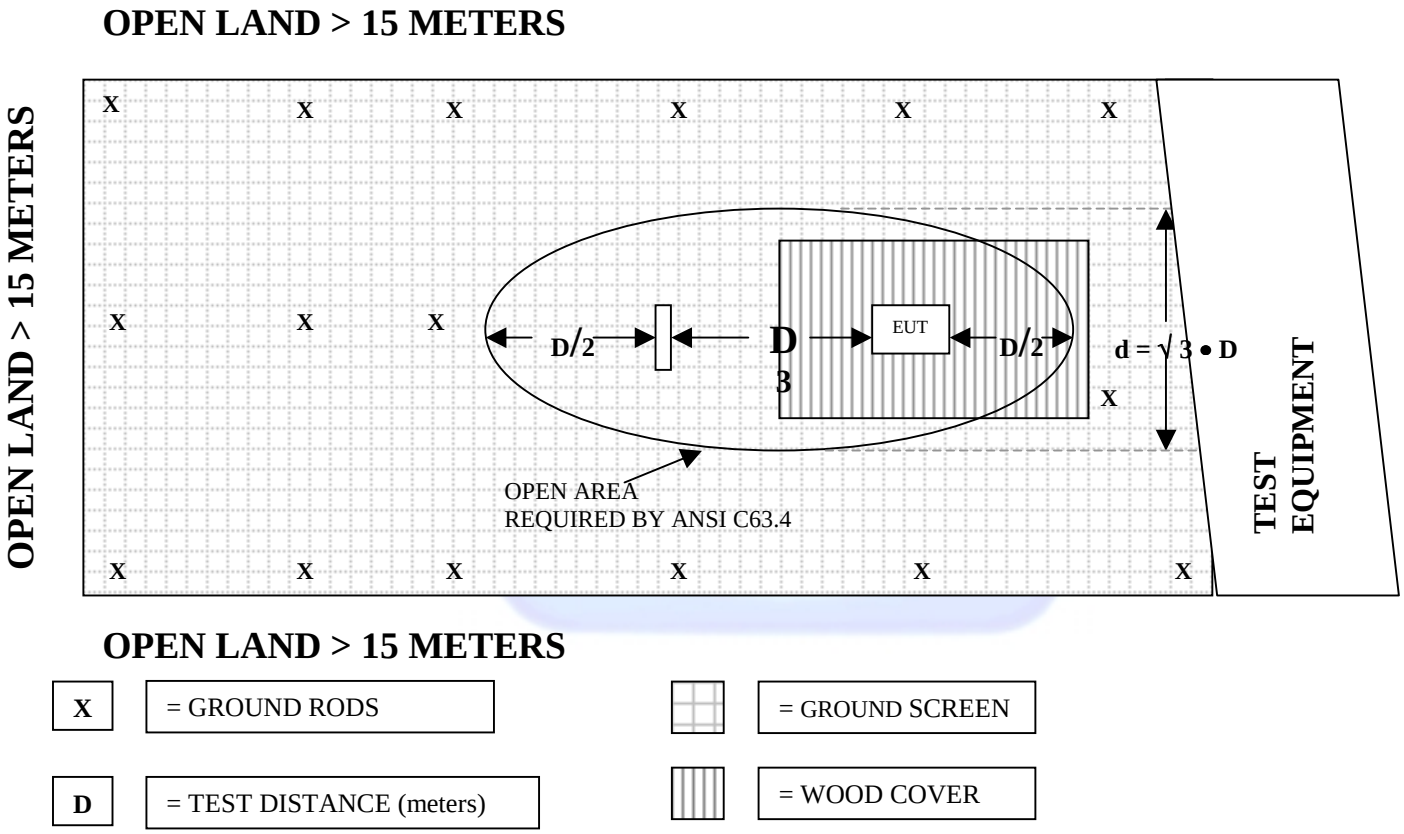
# APPENDIX D

# *DIAGRAMS, CHARTS, AND PHOTOS*

# *FIGURE 1: CONDUCTED EMISSIONS TEST SETUP*



# *FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE – 3 METERS*




**OPEN LAND > 15 METERS**

| | | | |
|---|---|---|---|
| X | = GROUND RODS | | = GROUND SCREEN |
| D | = TEST DISTANCE (meters) | | = WOOD COVER |

# COM-POWER AC-220

# COMBILOG ANTENNA

# S/N: 61027

# CALIBRATION DATE: JUNE 12, 2009

| FREQUENCY (MHz) | FACTOR (dB) | FREQUENCY (MHz) | FACTOR (dB) |
|---|---|---|---|
| 25 | 17.7 | 180 | 10.0 |
| 30 | 18.1 | 200 | 10.2 |
| 35 | 17.4 | 250 | 11.7 |
| 40 | 16.8 | 275 | 13.3 |
| 45 | 16.1 | 300 | 13.9 |
| 50 | 16.3 | 400 | 15.8 |
| 60 | 14.0 | 500 | 17.3 |
| 70 | 8.1 | 600 | 18.7 |
| 80 | 7.5 | 700 | 19.6 |
| 90 | 8.5 | 800 | 20.9 |
| 100 | 9.9 | 900 | 21.5 |
| 120 | 9.9 | 1000 | 22.3 |
| 125 | 10.4 | 1200 | 18.1 |
| 140 | 10.1 | 1400 | 17.9 |
| 150 | 8.9 | 1600 | 20.1 |
| 160 | 8.9 | 1800 | 18.8 |
| 175 | 10.2 | 2000 | 20.0 |

COM-POWER PA-103

PREAMPLIFIER

S/N: 1582

CALIBRATION DATE: JANUARY 6, 2010

| FREQUENCY (MHz) | FACTOR (dB) | FREQUENCY (MHz) | FACTOR (dB) |
|---|---|---|---|
| 30 | 33.1 | 300 | 32.7 |
| 40 | 33.0 | 350 | 32.6 |
| 50 | 32.9 | 400 | 33.0 |
| 60 | 33.1 | 450 | 32.3 |
| 70 | 33.1 | 500 | 32.1 |
| 80 | 32.9 | 550 | 32.5 |
| 90 | 32.9 | 600 | 32.3 |
| 100 | 32.9 | 650 | 32.0 |
| 125 | 33.0 | 700 | 32.6 |
| 150 | 32.9 | 750 | 32.5 |
| 175 | 32.9 | 800 | 31.8 |
| 200 | 32.7 | 850 | 31.9 |
| 225 | 32.8 | 900 | 32.2 |
| 250 | 32.8 | 950 | 32.1 |
| 275 | 32.8 | 1000 | 32.1 |

# COM POWER AH-118

# HORN ANTENNA

# S/N: 071175

# CALIBRATION DATE: MARCH 18, 2010

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|---|---|---|---|
| 1.0 | 22.2 | 10.0 | 39.8 |
| 1.5 | 24.2 | 10.5 | 40.2 |
| 2.0 | 27.2 | 11.0 | 39.7 |
| 2.5 | 27.8 | 11.5 | 39.9 |
| 3.0 | 30.5 | 12.0 | 41.7 |
| 3.5 | 30.9 | 12.5 | 42.7 |
| 4.0 | 31.9 | 13.0 | 42.3 |
| 4.5 | 33.2 | 13.5 | 40.3 |
| 5.0 | 33.6 | 14.0 | 42.6 |
| 5.5 | 36.2 | 14.5 | 43.4 |
| 6.0 | 35.8 | 15.0 | 41.9 |
| 6.5 | 36.1 | 15.5 | 40.8 |
| 7.0 | 37.9 | 16.0 | 41.0 |
| 7.5 | 37.4 | 16.5 | 41.5 |
| 8.0 | 38.0 | 17.0 | 44.5 |
| 8.5 | 38.8 | 17.5 | 47.6 |
| 9.0 | 38.0 | 18.0 | 50.8 |
| 9.5 | 39.2 | | |

# COM-POWER PA-122

# PREAMPLIFIER

# S/N: 181921

# CALIBRATION DATE: MARCH 10, 2010

| FREQUENCY (GHz) | FACTOR (dB) | FREQUENCY (GHz) | FACTOR (dB) |
|---|---|---|---|
| 1.0 | 35.53 | 10.0 | 34.78 |
| 1.5 | 34.92 | 10.5 | 34.36 |
| 2.0 | 34.63 | 11.0 | 33.14 |
| 2.5 | 34.42 | 11.5 | 34.42 |
| 3.0 | 34.40 | 12.0 | 34.24 |
| 3.5 | 34.36 | 12.5 | 34.95 |
| 4.0 | 34.11 | 13.0 | 34.62 |
| 4.5 | 33.61 | 13.5 | 35.24 |
| 5.0 | 33.83 | 14.0 | 35.40 |
| 5.5 | 34.53 | 14.5 | 36.66 |
| 6.0 | 35.09 | 15.0 | 35.98 |
| 6.5 | 35.58 | 15.5 | 35.94 |
| 7.0 | 36.50 | 16.0 | 35.80 |
| 7.5 | 34.83 | 16.5 | 34.98 |
| 8.0 | 34.08 | 17.0 | 35.00 |
| 8.5 | 33.57 | 17.5 | 34.25 |
| 9.0 | 34.68 | 18.0 | 33.51 |
| 9.5 | 35.84 | 18.5 | 32.88 |

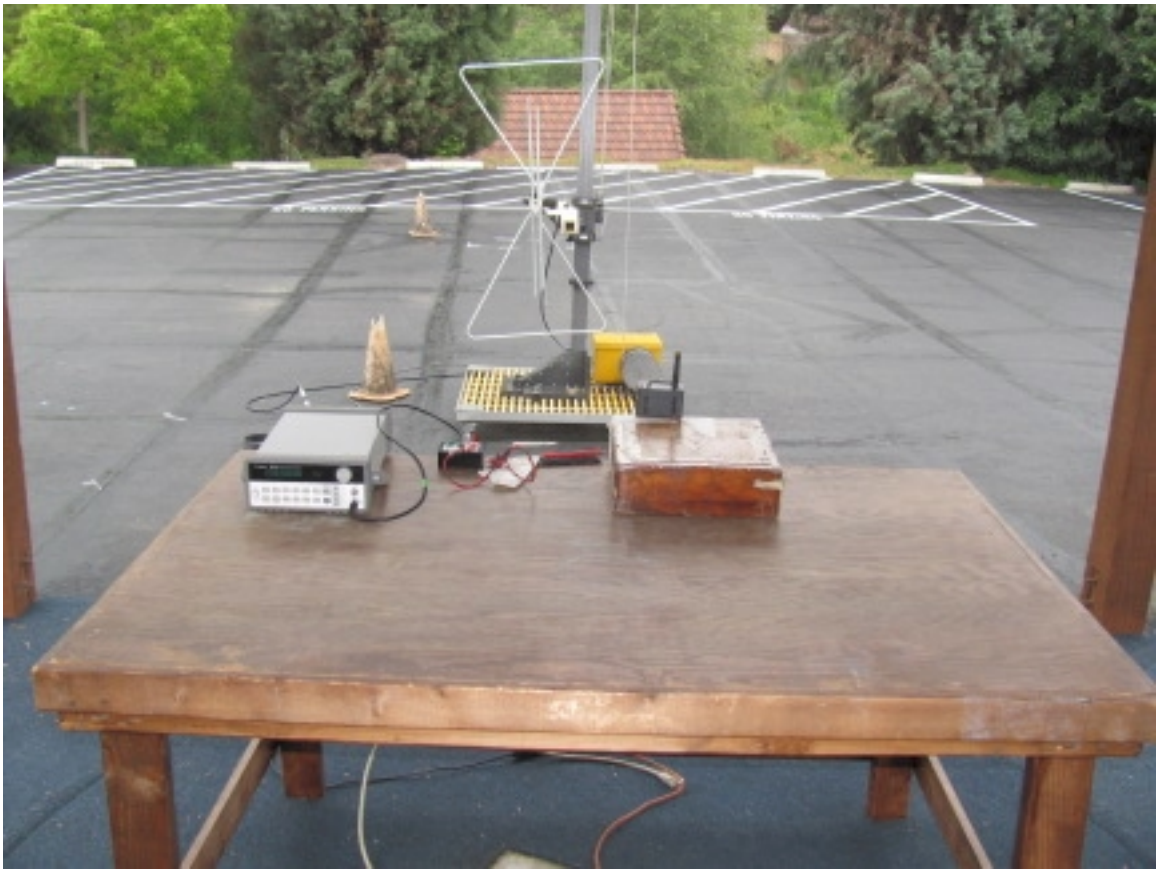
# COM-POWER AL-130

# LOOP ANTENNA

# S/N: 17089

# CALIBRATION DATE: SEPTEMBER 29, 2008

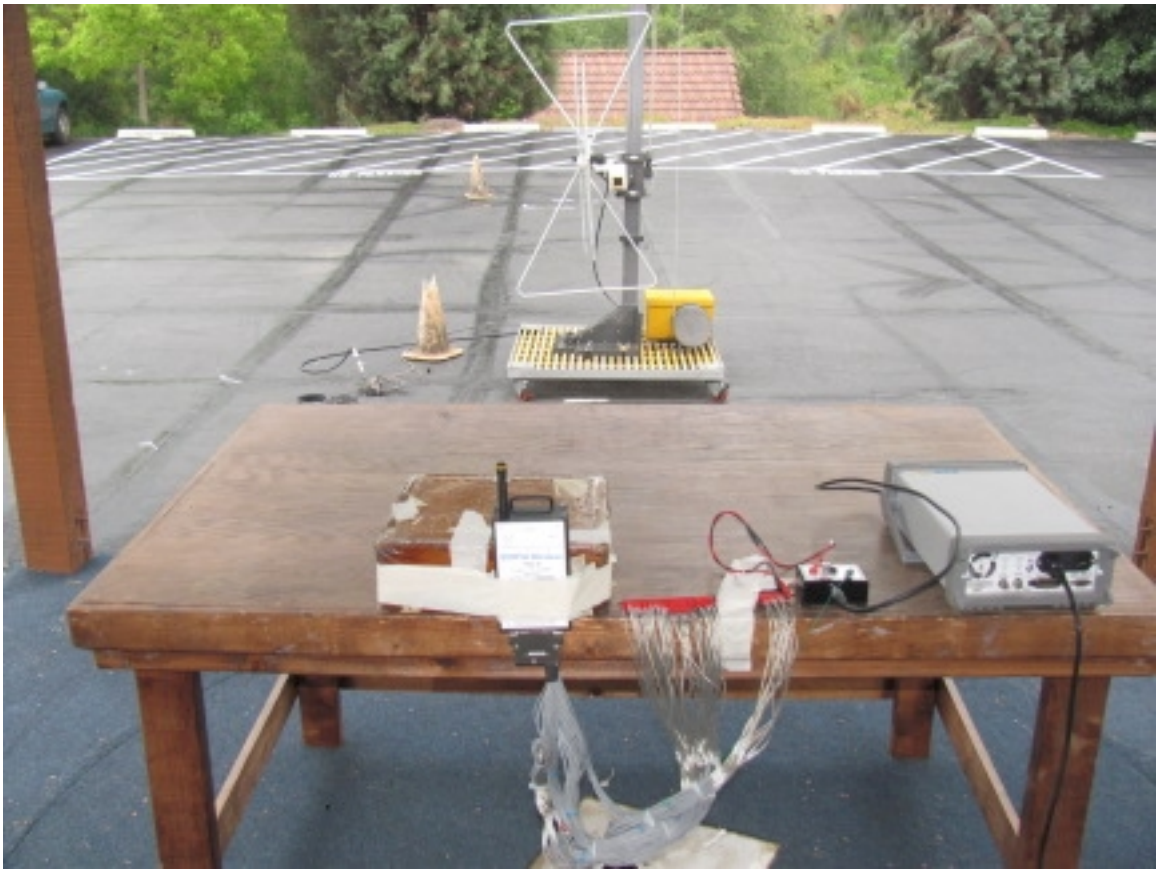
| FREQUENCY (MHz) | MAGNETIC (dB/m) | ELECTRIC (dB/m) |
|---|---|---|
| 0.009 | -41.57 | 9.93 |
| 0.01 | -42.06 | 9.44 |
| 0.02 | -42.43 | 9.07 |
| 0.05 | -42.50 | 9.00 |
| 0.07 | -42.10 | 9.40 |
| 0.1 | -42.03 | 9.47 |
| 0.2 | -44.50 | 7.00 |
| 0.3 | -41.93 | 9.57 |
| 0.5 | -41.90 | 9.60 |
| 0.7 | -41.73 | 9.77 |
| 1 | -41.23 | 10.27 |
| 2 | -40.90 | 10.60 |
| 3 | -41.20 | 10.30 |
| 4 | -41.30 | 10.20 |
| 5 | -40.70 | 10.80 |
| 10 | -41.10 | 10.40 |
| 15 | -42.17 | 9.33 |
| 20 | -42.00 | 9.50 |
| 25 | -42.20 | 9.30 |
| 30 | -43.10 | 8.40 |



**FRONT VIEW**

KONIGSBERG INSTRUMENTS, INC.
MYOPAC WIRELESS TRANSMITTER
MODEL: T50-6
FCC SUBPART B AND C – RADAITED EMISSIONS

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS



**REAR VIEW**

KONIGSBERG INSTRUMENTS, INC.
MYOPAC WIRELESS TRANSMITTER
MODEL: T50-6
FCC SUBPART B AND C – RADAITED EMISSIONS

## PHOTOGRAPH SHOWING THE EUT CONFIGURATION FOR MAXIMUM EMISSIONS

# APPENDIX E

# *DATA SHEETS*

# *RADIATED EMISISONS*

# *DATA SHEETS*

**FCC 15.247**
Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Low Channel**
**Transmit Mode - X-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 911 | | | | | | | | Not required as Power |
| 911 | | | | | | | | Output done via Conducted. |
| | | | | | | | | |
| 1822 | | | | | | | | Not in |
| 1822 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2733 | 45.81 | V | 74 | -28.19 | Peak | 1.25 | 135 | |
| 2733 | 34.21 | V | 54 | -19.79 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3644 | 39.49 | V | 74 | -34.51 | Peak | 1.35 | 145 | |
| 3644 | 26.62 | V | 54 | -27.38 | Avg | 1.35 | 145 | |
| | | | | | | | | |
| 4555 | 41.15 | V | 74 | -32.85 | Peak | 1.25 | 165 | |
| 4555 | 29.22 | V | 54 | -24.78 | Avg | 1.25 | 165 | |
| | | | | | | | | |
| 5466 | 44.84 | V | 74 | -29.16 | Peak | 1.35 | 175 | |
| 5466 | 31.76 | V | 54 | -22.24 | Avg | 1.35 | 175 | |
| | | | | | | | | |
| 6377 | | | | | | | | Not in |
| 6377 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7288 | 43.96 | V | 74 | -30.04 | Peak | 1.25 | 155 | |
| 7288 | 33.58 | V | 54 | -20.42 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 8199 | 46.15 | V | 74 | -27.85 | Peak | 1.35 | 175 | |
| 8199 | 34.71 | V | 54 | -19.29 | Avg | 1.35 | 175 | |
| | | | | | | | | |
| 9110 | 42.52 | V | 74 | -31.48 | Peak | 1.15 | 135 | |
| 9110 | 31.03 | V | 54 | -22.97 | Avg | 1.15 | 135 | |
| | | | | | | | | |

*Measured Using Conducted Measurements as allowed by FCC 15.247(d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Low Channel**
**Transmit Mode - X-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 911 | | | | | | | | Not required as Power |
| 911 | | | | | | | | Output done via Conducted. |
| | | | | | | | | |
| 1822 | | | | | | | | Not in |
| 1822 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2733 | 46.35 | H | 74 | -27.65 | Peak | 1.25 | 135 | |
| 2733 | 34.21 | H | 54 | -19.79 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3644 | 38.48 | H | 74 | -35.52 | Peak | 1.35 | 155 | |
| 3644 | 26.67 | H | 54 | -27.33 | Avg | 1.35 | 155 | |
| | | | | | | | | |
| 4555 | 41.51 | H | 74 | -32.49 | Peak | 1.25 | 135 | |
| 4555 | 29.19 | H | 54 | -24.81 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 5466 | 44.41 | H | 74 | -29.59 | Peak | 1.15 | 155 | |
| 5466 | 31.77 | H | 54 | -22.23 | Avg | 1.15 | 155 | |
| | | | | | | | | |
| 6377 | | | | | | | | Not in |
| 6377 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7288 | 44.41 | H | 74 | -29.59 | Peak | 1.25 | 135 | |
| 7288 | 33.47 | H | 54 | -20.53 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 8199 | 46.21 | H | 74 | -27.79 | Peak | 1.35 | 175 | |
| 8199 | 34.75 | H | 54 | -19.25 | Avg | 1.35 | 175 | |
| | | | | | | | | |
| 9110 | 42.95 | H | 74 | -31.05 | Peak | 1.45 | 185 | |
| 9110 | 31.03 | H | 54 | -22.97 | Avg | 1.45 | 185 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel**
**Transmit Mode - X-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 915 | | | | | | | | Not required as Power |
| 915 | | | | | | | | Output done via Conducted. |
| | | | | | | | | |
| 1830 | | | | | | | | Not in |
| 1830 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2745 | 47.07 | V | 74 | -26.93 | Peak | 1.25 | 135 | |
| 2745 | 35.51 | V | 54 | -18.49 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3660 | 39.69 | V | 74 | -34.31 | Peak | 1.35 | 165 | |
| 3660 | 27.36 | V | 54 | -26.64 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 4575 | 43.03 | V | 74 | -30.97 | Peak | 1.65 | 175 | |
| 4575 | 29.92 | V | 54 | -24.08 | Avg | 1.65 | 175 | |
| | | | | | | | | |
| 5490 | 46.32 | V | 74 | -27.68 | Peak | 1.75 | 185 | |
| 5490 | 34.15 | V | 54 | -19.85 | Avg | 1.75 | 185 | |
| | | | | | | | | |
| 6405 | | | | | | | | Not in |
| 6405 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7320 | 47.16 | V | 74 | -26.84 | Peak | 1.25 | 135 | |
| 7320 | 35.45 | V | 54 | -18.55 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 8235 | 49.11 | V | 74 | -24.89 | Peak | 1.58 | 135 | |
| 8235 | 37.84 | V | 54 | -16.16 | Avg | 1.58 | 135 | |
| | | | | | | | | |
| 9150 | 45.99 | V | 74 | -28.01 | Peak | 1.75 | 125 | |
| 9150 | 35.22 | V | 54 | -18.78 | Avg | 1.75 | 125 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel**
**Transmit Mode - X-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 915 | | | | | | | | Not required as Power |
| 915 | | | | | | | | Output done via Conducted. |
| | | | | | | | | |
| 1830 | | | | | | | | Not in |
| 1830 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2745 | 48.12 | H | 74 | -25.88 | Peak | 1.25 | 135 | |
| 2745 | 35.52 | H | 54 | -18.48 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3660 | 39.47 | H | 74 | -34.53 | Peak | 1.35 | 165 | |
| 3660 | 27.39 | H | 54 | -26.61 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 4575 | 43.08 | H | 74 | -30.92 | Peak | 1.58 | 175 | |
| 4575 | 29.95 | H | 54 | -24.05 | Avg | 1.58 | 175 | |
| | | | | | | | | |
| 5490 | 46.62 | H | 74 | -27.38 | Peak | 1.35 | 155 | |
| 5490 | 34.24 | H | 54 | -19.76 | Avg | 1.35 | 155 | |
| | | | | | | | | |
| 6405 | | | | | | | | Not in |
| 6405 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7320 | 46.92 | H | 74 | -27.08 | Peak | 1.45 | 165 | |
| 7320 | 35.42 | H | 54 | -18.58 | Avg | 1.45 | 165 | |
| | | | | | | | | |
| 8235 | 49.51 | H | 74 | -24.49 | Peak | 1.25 | 135 | |
| 8235 | 37.77 | H | 54 | -16.23 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 9150 | 46.52 | H | 74 | -27.48 | Peak | 1.35 | 155 | |
| 9150 | 35.25 | H | 54 | -18.75 | Avg | 1.35 | 155 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel**
**Transmit Mode - X-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 919 | | | | | | | | Not required as Power |
| 919 | | | | | | | | Output done via Conducted. |
| | | | | | | | | |
| 1838 | | | | | | | | Not in |
| 1838 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2757 | 48.73 | V | 74 | -25.27 | Peak | 1.25 | 155 | |
| 2757 | 35.56 | V | 54 | -18.44 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 3676 | 39.61 | V | 74 | -34.39 | Peak | 1.35 | 165 | |
| 3676 | 27.31 | V | 54 | -26.69 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 4595 | 42.12 | V | 74 | -31.88 | Peak | 1.25 | 135 | |
| 4595 | 29.74 | V | 54 | -24.26 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 5514 | 47.71 | V | 74 | -26.29 | Peak | 1.35 | 155 | |
| 5514 | 34.61 | V | 54 | -19.39 | Avg | 1.35 | 155 | |
| | | | | | | | | |
| 6433 | | | | | | | | Not in |
| 6433 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7352 | 48.11 | V | 74 | -25.89 | Peak | 1.25 | 155 | |
| 7352 | 35.43 | V | 54 | -18.57 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 8271 | 49.35 | V | 74 | -24.65 | Peak | 1.35 | 175 | |
| 8271 | 37.88 | V | 54 | -16.12 | Avg | 1.35 | 175 | |
| | | | | | | | | |
| 9190 | 49.11 | V | 74 | -24.89 | Peak | 1.25 | 135 | |
| 9190 | 35.32 | V | 54 | -18.68 | Avg | 1.25 | 135 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel**
**Transmit Mode - X-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 919 | | | | | | | | Not required as Power |
| 919 | | | | | | | | Output done via Conducted. |
| | | | | | | | | |
| 1838 | | | | | | | | Not in |
| 1838 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2757 | 36.27 | H | 74 | -37.73 | Peak | 1.25 | 135 | |
| 2757 | 23.51 | H | 54 | -30.49 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3676 | 39.79 | H | 74 | -34.21 | Peak | 1.35 | 155 | |
| 3676 | 27.29 | H | 54 | -26.71 | Avg | 1.35 | 155 | |
| | | | | | | | | |
| 4595 | 42.46 | H | 74 | -31.54 | Peak | 1.45 | 165 | |
| 4595 | 29.73 | H | 54 | -24.27 | Avg | 1.45 | 165 | |
| | | | | | | | | |
| 5514 | 46.33 | H | 74 | -27.67 | Peak | 1.65 | 175 | |
| 5514 | 34.52 | H | 54 | -19.48 | Avg | 1.65 | 175 | |
| | | | | | | | | |
| 6433 | | | | | | | | Not in |
| 6433 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7352 | 48.18 | H | 74 | -25.82 | Peak | 1.35 | 185 | |
| 7352 | 35.35 | H | 54 | -18.65 | Avg | 1.35 | 185 | |
| | | | | | | | | |
| 8271 | 49.42 | H | 74 | -24.58 | Peak | 1.45 | 195 | |
| 8271 | 37.87 | H | 54 | -16.13 | Avg | 1.45 | 195 | |
| | | | | | | | | |
| 9190 | 47.25 | H | 74 | -26.75 | Peak | 1.65 | 205 | |
| 9190 | 35.42 | H | 54 | -18.58 | Avg | 1.65 | 205 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247 and FCC Class B**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Non Harmonic Emissions from the Tx - 1 GHz to 9.3 GHz - X-Axis**
**Digital Portion of the EUT - 1 GHz to 9.3 GHz - X-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | No Emissions Detected from |
| | | | | | | | | the Non-Harmonic Emissions |
| | | | | | | | | of the Transmitter from |
| | | | | | | | | 1 GHz to 9.3 GHz |
| | | | | | | | | |
| | | | | | | | | No Emissions Detected from |
| | | | | | | | | the Digital Portion of |
| | | | | | | | | the EUT from 1 GHz |
| | | | | | | | | to 9.3 GHz |
| | | | | | | | | |
| | | | | | | | | Test in both Vertical |
| | | | | | | | | and Horizontal Polarizations |

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Low Channel**
**Transmit Mode - Y-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 911 | | | | | | | | Not Required as Power |
| 911 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1822 | | | | | | | | Not in |
| 1822 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2733 | 47.02 | V | 74 | -26.98 | Peak | 1.25 | 0 | |
| 2733 | 35.97 | V | 54 | -18.03 | Avg | 1.25 | 0 | |
| | | | | | | | | |
| 3644 | 40.03 | V | 74 | -33.97 | Peak | 1.55 | 135 | |
| 3644 | 27.79 | V | 54 | -26.21 | Avg | 1.55 | 135 | |
| | | | | | | | | |
| 4555 | 45.18 | V | 74 | -28.82 | Peak | 1.25 | 175 | |
| 4555 | 30.34 | V | 54 | -23.66 | Avg | 1.25 | 175 | |
| | | | | | | | | |
| 5466 | 45.36 | V | 74 | -28.64 | Peak | 1.35 | 185 | |
| 5466 | 33.68 | V | 54 | -20.32 | Avg | 1.35 | 185 | |
| | | | | | | | | |
| 6377 | | | | | | | | Not in |
| 6377 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7288 | 46.23 | V | 74 | -27.77 | Peak | 1.55 | 185 | |
| 7288 | 34.51 | V | 54 | -19.49 | Avg | 1.55 | 185 | |
| | | | | | | | | |
| 8199 | 48.01 | V | 74 | -25.99 | Peak | 1.25 | 135 | |
| 8199 | 35.11 | V | 54 | -18.89 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 9110 | 44.11 | V | 74 | -29.89 | Peak | 1.35 | 165 | |
| 9110 | 31.23 | V | 54 | -22.77 | Avg | 1.35 | 165 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Low Channel**
**Transmit Mode - Y-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 911 | | | | | | | | Not Required as Power |
| 911 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1822 | | | | | | | | Not in |
| 1822 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2733 | 46.91 | H | 74 | -27.09 | Peak | 1.25 | 45 | |
| 2733 | 34.74 | H | 54 | -19.26 | Avg | 1.25 | 45 | |
| | | | | | | | | |
| 3644 | 39.08 | H | 74 | -34.92 | Peak | 1.35 | 135 | |
| 3644 | 26.88 | H | 54 | -27.12 | Avg | 1.35 | 135 | |
| | | | | | | | | |
| 4555 | 41.99 | H | 74 | -32.01 | Peak | 1.25 | 155 | |
| 4555 | 29.38 | H | 54 | -24.62 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 5466 | 44.48 | H | 74 | -29.52 | Peak | 1.35 | 165 | |
| 5466 | 31.97 | H | 54 | -22.03 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 6377 | | | | | | | | Not in |
| 6377 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7288 | 44.85 | H | 74 | -29.15 | Peak | 1.25 | 135 | |
| 7288 | 34.29 | H | 54 | -19.71 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 8199 | 47.47 | H | 74 | -26.53 | Peak | 1.25 | 155 | |
| 8199 | 35.08 | H | 54 | -18.92 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 9110 | 41.94 | H | 74 | -32.06 | Peak | 1.35 | 175 | |
| 9110 | 31.19 | H | 54 | -22.81 | Avg | 1.35 | 175 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel**
**Transmit Mode - Y-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 915 | | | | | | | | Not Required as Power |
| 915 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1830 | | | | | | | | Not in |
| 1830 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2745 | 48.39 | V | 74 | -25.61 | Peak | 1.52 | 135 | |
| 2745 | 35.87 | V | 54 | -18.13 | Avg | 1.52 | 135 | |
| | | | | | | | | |
| 3660 | 40.12 | V | 74 | -33.88 | Peak | 1.58 | 150 | |
| 3660 | 27.61 | V | 54 | -26.39 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 4575 | 42.77 | V | 74 | -31.23 | Peak | 1.59 | 175 | |
| 4575 | 30.09 | V | 54 | -23.91 | Avg | 1.59 | 175 | |
| | | | | | | | | |
| 5490 | 46.88 | V | 74 | -27.12 | Peak | 2.05 | 0 | |
| 5490 | 34.28 | V | 54 | -19.72 | Avg | 2.05 | 0 | |
| | | | | | | | | |
| 6405 | | | | | | | | Not in |
| 6405 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7320 | 47.61 | V | 74 | -26.39 | Peak | 1.58 | 0 | |
| 7320 | 36.17 | V | 54 | -17.83 | Avg | 1.58 | 0 | |
| | | | | | | | | |
| 8235 | 46.41 | V | 74 | -27.59 | Peak | 1.59 | 180 | |
| 8235 | 35.81 | V | 54 | -18.19 | Avg | 1.59 | 180 | |
| | | | | | | | | |
| 9150 | 44.11 | V | 74 | -29.89 | Peak | 1.25 | 150 | |
| 9150 | 32.21 | V | 54 | -21.79 | Avg | 1.25 | 150 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel**
**Transmit Mode - Y-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 915 | | | | | | | | Not Required as Power |
| 915 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1830 | | | | | | | | Not in |
| 1830 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2745 | 35.29 | H | 74 | -38.71 | Peak | 1.58 | 135 | |
| 2745 | 22.49 | H | 54 | -31.51 | Avg | 1.58 | 135 | |
| | | | | | | | | |
| 3660 | 40.27 | H | 74 | -33.73 | Peak | 1.59 | 45 | |
| 3660 | 26.67 | H | 54 | -27.33 | Avg | 1.59 | 45 | |
| | | | | | | | | |
| 4575 | 41.05 | H | 74 | -32.95 | Peak | 1.58 | 150 | |
| 4575 | 29.15 | H | 54 | -24.85 | Avg | 1.58 | 150 | |
| | | | | | | | | |
| 5490 | 44.45 | H | 74 | -29.55 | Peak | 1.35 | 225 | |
| 5490 | 32.13 | H | 54 | -21.87 | Avg | 1.35 | 225 | |
| | | | | | | | | |
| 6405 | | | | | | | | Not in |
| 6405 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7320 | 46.18 | H | 74 | -27.82 | Peak | 1.59 | 145 | |
| 7320 | 33.92 | H | 54 | -20.08 | Avg | 1.59 | 145 | |
| | | | | | | | | |
| 8235 | 48.07 | H | 74 | -25.93 | Peak | 1.38 | 225 | |
| 8235 | 35.95 | H | 54 | -18.05 | Avg | 1.38 | 225 | |
| | | | | | | | | |
| 9150 | 44.44 | H | 74 | -29.56 | Peak | 1.58 | 155 | |
| 9150 | 32.01 | H | 54 | -21.99 | Avg | 1.58 | 155 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel**
**Transmit Mode - Y-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 919 | | | | | | | | Not Required as Power |
| 919 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1838 | | | | | | | | Not in |
| 1838 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2757 | 46.67 | V | 74 | -27.33 | Peak | 1.25 | 155 | |
| 2757 | 34.52 | V | 54 | -19.48 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 3676 | 36.33 | V | 74 | -37.67 | Peak | 1.58 | 135 | |
| 3676 | 26.56 | V | 54 | -27.44 | Avg | 1.58 | 135 | |
| | | | | | | | | |
| 4595 | 40.84 | V | 74 | -33.16 | Peak | 1.25 | 150 | |
| 4595 | 28.73 | V | 54 | -25.27 | Avg | 1.25 | 150 | |
| | | | | | | | | |
| 5514 | 44.09 | V | 74 | -29.91 | Peak | 1.25 | 150 | |
| 5514 | 31.37 | V | 54 | -22.63 | Avg | 1.25 | 150 | |
| | | | | | | | | |
| 6433 | | | | | | | | Not in |
| 6433 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7352 | 45.81 | V | 74 | -28.19 | Peak | 1.25 | 150 | |
| 7352 | 34.61 | V | 54 | -19.39 | Avg | 1.25 | 150 | |
| | | | | | | | | |
| 8271 | 46.25 | V | 74 | -27.75 | Peak | 1.25 | 135 | |
| 8271 | 35.62 | V | 54 | -18.38 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 9190 | 42.15 | V | 74 | -31.85 | Peak | 1.25 | 135 | |
| 9190 | 33.13 | V | 54 | -20.87 | Avg | 1.25 | 135 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel**
**Transmit Mode - Y-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 919 | | | | | | | | Not Required as Power |
| 919 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1838 | | | | | | | | Not in |
| 1838 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2757 | 34.49 | H | 74 | -39.51 | Peak | 1.35 | 165 | |
| 2757 | 22.44 | H | 54 | -31.56 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 3676 | 40.11 | H | 74 | -33.89 | Peak | 1.25 | 175 | |
| 3676 | 26.54 | H | 54 | -27.46 | Avg | 1.25 | 175 | |
| | | | | | | | | |
| 4595 | 41.1 | H | 74 | -32.9 | Peak | 1.35 | 185 | |
| 4595 | 28.75 | H | 54 | -25.25 | Avg | 1.35 | 185 | |
| | | | | | | | | |
| 5514 | 43.19 | H | 74 | -30.81 | Peak | 1.25 | 155 | |
| 5514 | 31.44 | H | 54 | -22.56 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 6433 | | | | | | | | Not in |
| 6433 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7352 | 46.75 | H | 74 | -27.25 | Peak | 1.65 | 175 | |
| 7352 | 34.29 | H | 54 | -19.71 | Avg | 1.65 | 175 | |
| | | | | | | | | |
| 8271 | 48.33 | H | 74 | -25.67 | Peak | 1.25 | 165 | |
| 8271 | 35.67 | H | 54 | -18.33 | Avg | 1.25 | 165 | |
| | | | | | | | | |
| 9190 | 44.62 | H | 74 | -29.38 | Peak | 1.25 | 135 | |
| 9190 | 33.34 | H | 54 | -20.66 | Avg | 1.25 | 135 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247 and FCC Class B**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Non Harmonic Emissions from the Tx - 1 GHz to 9.3 GHz -Y-Axis**
**Digital Portion of the EUT - 1 GHz to 9.3 GHz - Y-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | No Emissions Detected from |
| | | | | | | | | the Non-Harmonic Emissions |
| | | | | | | | | of the Transmitter from |
| | | | | | | | | 1 GHz to 9.3 GHz |
| | | | | | | | | |
| | | | | | | | | No Emissions Detected from |
| | | | | | | | | the Digital Portion of |
| | | | | | | | | the EUT from 1 GHz |
| | | | | | | | | to 9.3 GHz |
| | | | | | | | | |
| | | | | | | | | Test in both Vertical |
| | | | | | | | | and Horizontal Polarizations |

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Low Channel**
**Transmit Mode - Z-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 911 | | | | | | | | Not Required as Power |
| 911 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1822 | | | | | | | | Not in |
| 1822 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2733 | 44.79 | V | 74 | -29.21 | Peak | 1.25 | 135 | |
| 2733 | 34.36 | V | 54 | -19.64 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3644 | 39.22 | V | 74 | -34.78 | Peak | 1.35 | 155 | |
| 3644 | 26.72 | V | 54 | -27.28 | Avg | 1.35 | 155 | |
| | | | | | | | | |
| 4555 | 42.26 | V | 74 | -31.74 | Peak | 1.25 | 135 | |
| 4555 | 29.31 | V | 54 | -24.69 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 5466 | 43.56 | V | 74 | -30.44 | Peak | 1.35 | 145 | |
| 5466 | 31.79 | V | 54 | -22.21 | Avg | 1.35 | 145 | |
| | | | | | | | | |
| 6377 | | | | | | | | Not in |
| 6377 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7288 | 45.99 | V | 74 | -28.01 | Peak | 1.25 | 135 | |
| 7288 | 33.64 | V | 54 | -20.36 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 8199 | 46.24 | V | 74 | -27.76 | Peak | 1.35 | 165 | |
| 8199 | 34.79 | V | 54 | -19.21 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 9110 | 42.79 | V | 74 | -31.21 | Peak | 1.25 | 175 | |
| 9110 | 31.11 | V | 54 | -22.89 | Avg | 1.25 | 175 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Low Channel**
**Transmit Mode - Z-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 911 | | | | | | | | Not Required as Power |
| 911 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1822 | | | | | | | | Not in |
| 1822 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2733 | 46.29 | H | 74 | -27.71 | Peak | 1.25 | 135 | |
| 2733 | 34.33 | H | 54 | -19.67 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3644 | 39.05 | H | 74 | -34.95 | Peak | 1.35 | 155 | |
| 3644 | 26.75 | H | 54 | -27.25 | Avg | 1.35 | 155 | |
| | | | | | | | | |
| 4555 | 41.67 | H | 74 | -32.33 | Peak | 1.45 | 165 | |
| 4555 | 29.28 | H | 54 | -24.72 | Avg | 1.45 | 165 | |
| | | | | | | | | |
| 5466 | 42.93 | H | 74 | -31.07 | Peak | 1.25 | 135 | |
| 5466 | 31.87 | H | 54 | -22.13 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 6377 | | | | | | | | Not in |
| 6377 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7288 | 44.56 | H | 74 | -29.44 | Peak | 1.35 | 165 | |
| 7288 | 33.64 | H | 54 | -20.36 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 8199 | 46.28 | H | 74 | -27.72 | Peak | 1.25 | 165 | |
| 8199 | 34.82 | H | 54 | -19.18 | Avg | 1.25 | 165 | |
| | | | | | | | | |
| 9110 | 42.38 | H | 74 | -31.62 | Peak | 1.35 | 175 | |
| 9110 | 31.08 | H | 54 | -22.92 | Avg | 1.35 | 175 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel**
**Transmit Mode - Z-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 915 | | | | | | | | Not Required as Power |
| 915 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1830 | | | | | | | | Not in |
| 1830 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2745 | 46.47 | V | 74 | -27.53 | Peak | 1.25 | 155 | |
| 2745 | 34.35 | V | 54 | -19.65 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 3660 | 39.31 | V | 74 | -34.69 | Peak | 1.35 | 165 | |
| 3660 | 26.65 | V | 54 | -27.35 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 4575 | 40.81 | V | 74 | -33.19 | Peak | 1.25 | 175 | |
| 4575 | 29.08 | V | 54 | -24.92 | Avg | 1.25 | 175 | |
| | | | | | | | | |
| 5490 | 44.36 | V | 74 | -29.64 | Peak | 1.35 | 185 | |
| 5490 | 41.93 | V | 54 | -12.07 | Avg | 1.35 | 185 | |
| | | | | | | | | |
| 6405 | | | | | | | | Not in |
| 6405 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7320 | 45.96 | V | 74 | -28.04 | Peak | 1.25 | 185 | |
| 7320 | 33.75 | V | 54 | -20.25 | Avg | 1.25 | 185 | |
| | | | | | | | | |
| 8235 | 48.33 | V | 74 | -25.67 | Peak | 1.55 | 125 | |
| 8235 | 35.82 | V | 54 | -18.18 | Avg | 1.55 | 125 | |
| | | | | | | | | |
| 9150 | 43.67 | V | 74 | -30.33 | Peak | 1.25 | 135 | |
| 9150 | 31.89 | V | 54 | -22.11 | Avg | 1.25 | 135 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Middle Channel**
**Transmit Mode - Z-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 915 | | | | | | | | Not Required as Power |
| 915 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1830 | | | | | | | | Not in |
| 1830 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2745 | 46.74 | H | 74 | -27.26 | Peak | 1.25 | 135 | |
| 2745 | 34.34 | H | 54 | -19.66 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3660 | 38.17 | H | 74 | -35.83 | Peak | 1.35 | 165 | |
| 3660 | 26.62 | H | 54 | -27.38 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 4575 | 41.32 | H | 74 | -32.68 | Peak | 1.45 | 175 | |
| 4575 | 29.11 | H | 54 | -24.89 | Avg | 1.45 | 175 | |
| | | | | | | | | |
| 5490 | 44.75 | H | 74 | -29.25 | Peak | 1.25 | 155 | |
| 5490 | 32.02 | H | 54 | -21.98 | Avg | 1.25 | 155 | |
| | | | | | | | | |
| 6405 | | | | | | | | Not in |
| 6405 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7320 | 45.37 | H | 74 | -28.63 | Peak | 1.25 | 135 | |
| 7320 | 33.86 | H | 54 | -20.14 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 8235 | 48.25 | H | 74 | -25.75 | Peak | 1.55 | 165 | |
| 8235 | 35.77 | H | 54 | -18.23 | Avg | 1.55 | 165 | |
| | | | | | | | | |
| 9150 | 44.75 | H | 74 | -29.25 | Peak | 1.25 | 175 | |
| 9150 | 32.03 | H | 54 | -21.97 | Avg | 1.25 | 175 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel**
**Transmit Mode - Z-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 919 | | | | | | | | Not Required as Power |
| 919 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1838 | | | | | | | | Not in |
| 1838 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2757 | 35.57 | V | 74 | -38.43 | Peak | 1.25 | 135 | |
| 2757 | 22.46 | V | 54 | -31.54 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 3676 | 38.14 | V | 74 | -35.86 | Peak | 1.35 | 155 | |
| 3676 | 26.56 | V | 54 | -27.44 | Avg | 1.35 | 155 | |
| | | | | | | | | |
| 4595 | 42.25 | V | 74 | -31.75 | Peak | 1.25 | 135 | |
| 4595 | 28.73 | V | 54 | -25.27 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 5514 | 43.76 | V | 74 | -30.24 | Peak | 1.35 | 155 | |
| 5514 | 31.36 | V | 54 | -22.64 | Avg | 1.35 | 155 | |
| | | | | | | | | |
| 6433 | | | | | | | | Not in |
| 6433 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7352 | 44.22 | V | 74 | -29.78 | Peak | 1.25 | 135 | |
| 7352 | 33.94 | V | 54 | -20.06 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 8271 | 47.12 | V | 74 | -26.88 | Peak | 1.35 | 165 | |
| 8271 | 35.58 | V | 54 | -18.42 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 9190 | 43.85 | V | 74 | -30.15 | Peak | 1.25 | 165 | |
| 9190 | 33.31 | V | 54 | -20.69 | Avg | 1.25 | 165 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**High Channel**
**Transmit Mode - Z-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| 919 | | | | | | | | Not Required as Power |
| 919 | | | | | | | | Output done via Conducted |
| | | | | | | | | |
| 1838 | | | | | | | | Not in |
| 1838 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 2757 | 48.87 | H | 74 | -25.13 | Peak | 1.25 | 180 | |
| 2757 | 34.41 | H | 54 | -19.59 | Avg | 1.25 | 180 | |
| | | | | | | | | |
| 3676 | 39.78 | H | 74 | -34.22 | Peak | 1.35 | 165 | |
| 3676 | 26.55 | H | 54 | -27.45 | Avg | 1.35 | 165 | |
| | | | | | | | | |
| 4595 | 41.84 | H | 74 | -32.16 | Peak | 1.45 | 175 | |
| 4595 | 28.73 | H | 54 | -25.27 | Avg | 1.45 | 175 | |
| | | | | | | | | |
| 5514 | 42.92 | H | 74 | -31.08 | Peak | 1.65 | 185 | |
| 5514 | 31.36 | H | 54 | -22.64 | Avg | 1.65 | 185 | |
| | | | | | | | | |
| 6433 | | | | | | | | Not in |
| 6433 | | | | | | | | Restricted Band* |
| | | | | | | | | |
| 7352 | 44.62 | H | 74 | -29.38 | Peak | 1.25 | 135 | |
| 7352 | 33.44 | H | 54 | -20.56 | Avg | 1.25 | 135 | |
| | | | | | | | | |
| 8271 | 47.71 | H | 74 | -26.29 | Peak | 1.58 | 155 | |
| 8271 | 35.64 | H | 54 | -18.36 | Avg | 1.58 | 155 | |
| | | | | | | | | |
| 9190 | 44.29 | H | 74 | -29.71 | Peak | 1.25 | 225 | |
| 9190 | 33.36 | H | 54 | -20.64 | Avg | 1.25 | 225 | |
| | | | | | | | | |

* Measured Using Conducted Measurements as allowed by FCC 15.247 (d)

**FCC 15.247 and FCC Class B**

Konigsberg Instruments, Inc.
Myopac Wireless Transmitter
Model: T50-6

Date: 04/16/2010
Lab: B
Tested By: Kyle Fujimoto

**Non Harmonic Emissions from the Tx - 1 GHz to 9.3 GHz -Z-Axis**
**Digital Portion of the EUT - 1 GHz to 9.3 GHz - Z-Axis**

| Freq. (MHz) | Level (dBuV) | Pol (v/h) | Limit | Margin | Peak / QP / Avg | Ant. Height (m) | Table Angle (deg) | Comments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | No Emissions Detected from |
| | | | | | | | | the Non-Harmonic Emissions |
| | | | | | | | | of the Transmitter from |
| | | | | | | | | 1 GHz to 9.3 GHz |
| | | | | | | | | |
| | | | | | | | | No Emissions Detected from |
| | | | | | | | | the Digital Portion of |
| | | | | | | | | the EUT from 1 GHz |
| | | | | | | | | to 9.3 GHz |
| | | | | | | | | |
| | | | | | | | | Test in both Vertical |
| | | | | | | | | and Horizontal Polarizations |

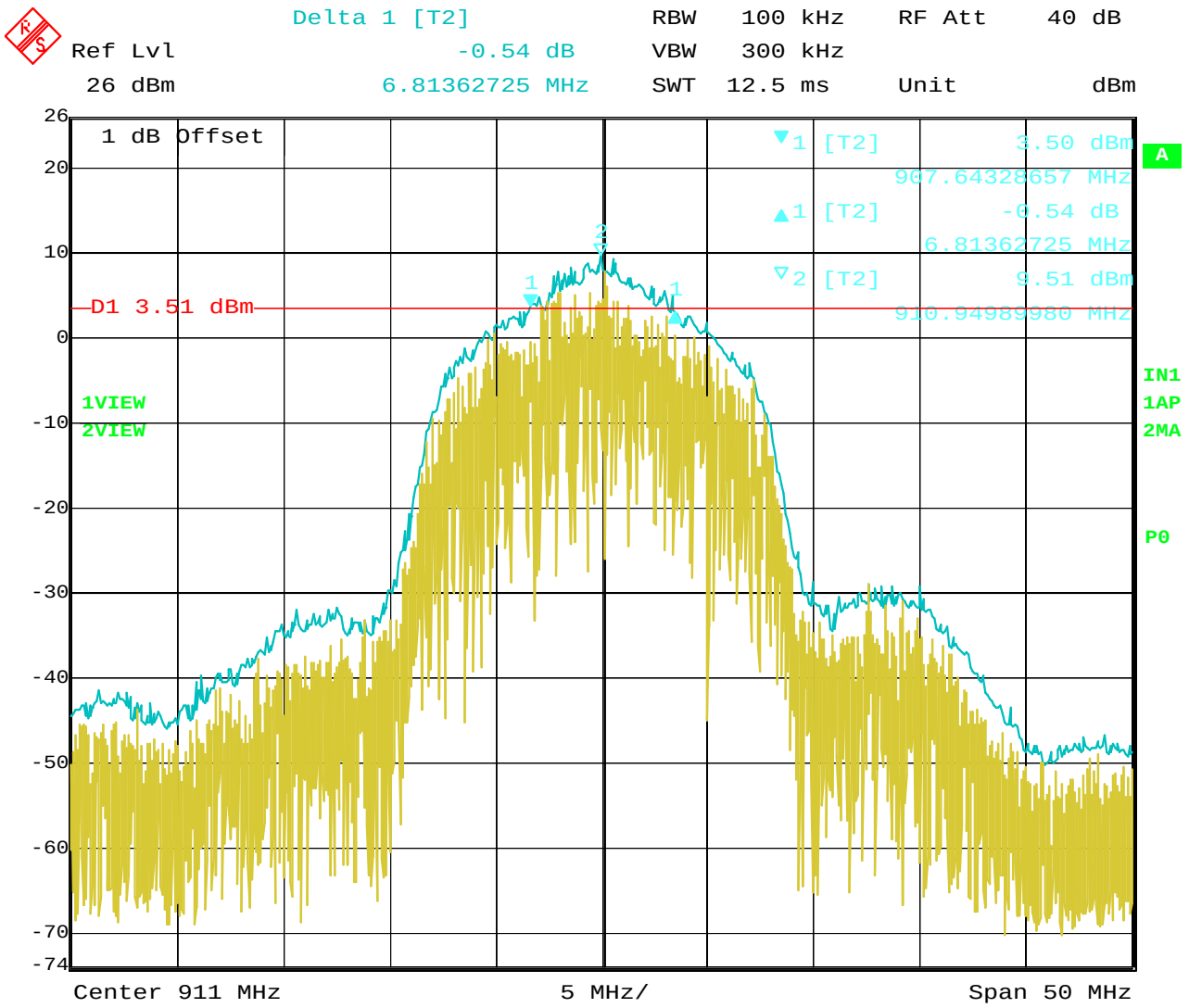
Test Location : Compatible Electronics Page : 1/1
Customer : Konigsberg Instruments, Inc. Date : 4/20/2010
Manufacturer : Konigsberg Instruments, Inc. Time : 9:12:47
Eut name : Myopac Wireless Transmitter Lab : A
Model : T50-6 Test Distance : 3
Serial # : N/A
Specification : FCC B
Distance correction factor (20 * log(test/spec) : 0.00

Test Type: Radiated Emissions Qualification
Test Range: 10 kHz to 1 GHz (Vertical and Horizontal)
Clocks: 10 MHz and 40 MHz - Tx Freq.: 911-919 MHz
Test Engineer: James Ross

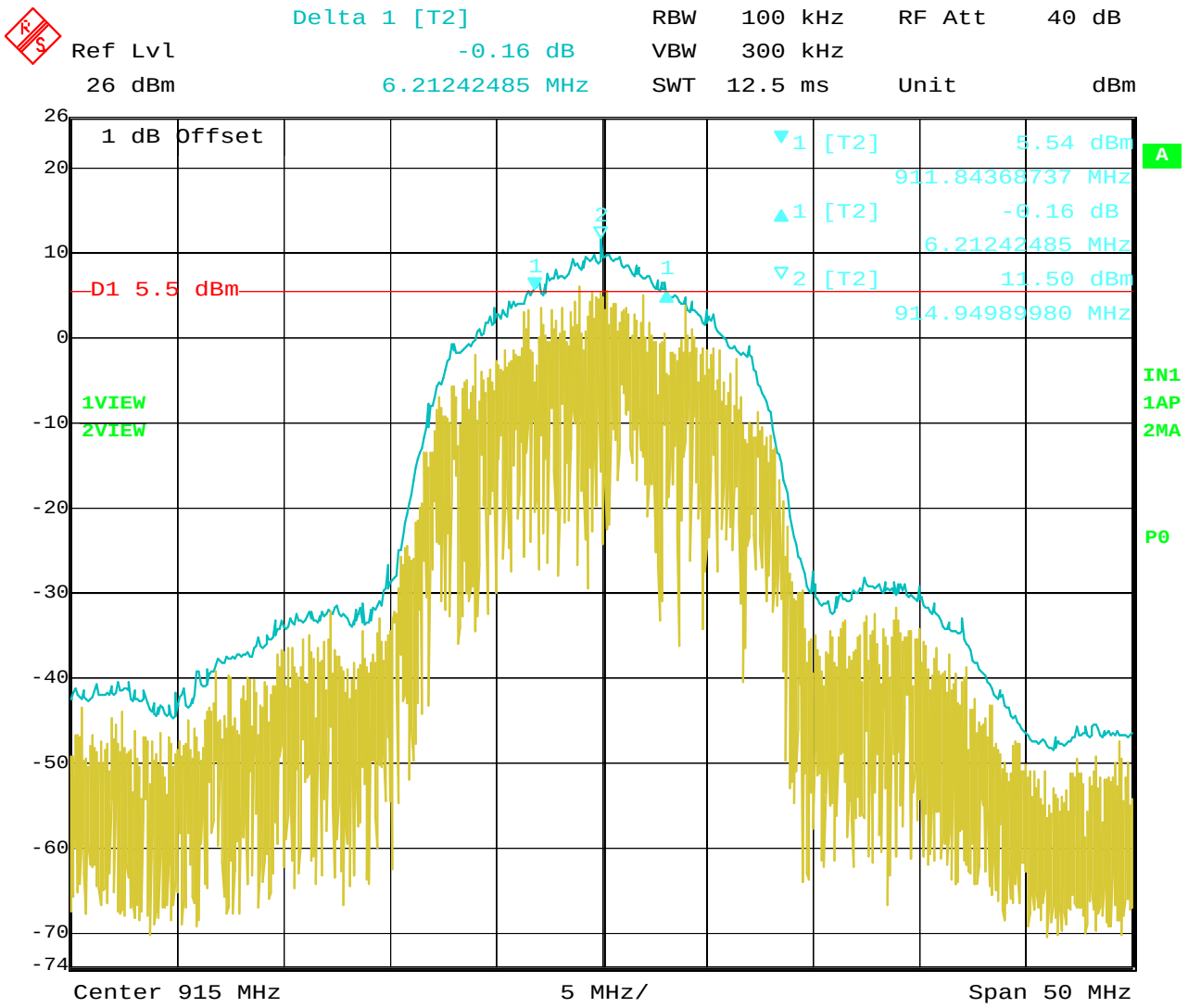
| Pol | Freq MHz | Rdng dBuV | Cable loss dB | Ant factor dB | Amp gain dB | Cor'd rdg = R dBuV | Limit = L dBuV/m | Delta R-L dB |
|---|---|---|---|---|---|---|---|---|
| V | 30.048 | 41.30 | 0.90 | 18.09 | 33.10 | 27.19 | 40.00 | -12.81 |
| V | 120.071 | 44.20 | 1.73 | 9.91 | 32.98 | 22.85 | 43.50 | -20.65 |
| V | 200.055 | 48.90 | 2.30 | 10.20 | 32.70 | 28.70 | 43.50 | -14.80 |
| V | 240.055 | 43.20 | 2.50 | 11.43 | 32.80 | 24.33 | 46.00 | -21.67 |
| H | 200.061 | 46.50 | 2.30 | 10.20 | 32.70 | 26.30 | 43.50 | -17.20 |
| H | 480.044 | 45.10 | 3.68 | 17.03 | 32.18 | 33.63 | 46.00 | -12.37 |
| H | 520.044 | 41.20 | 3.96 | 17.60 | 32.26 | 30.50 | 46.00 | -15.50 |
| H | 560.059 | 42.00 | 4.22 | 18.17 | 32.46 | 31.93 | 46.00 | -14.07 |
| H | 680.059 | 39.30 | 4.74 | 19.43 | 32.37 | 31.11 | 46.00 | -14.89 |

# *-6 dB BANDWIDTH*

# *DATA SHEETS*

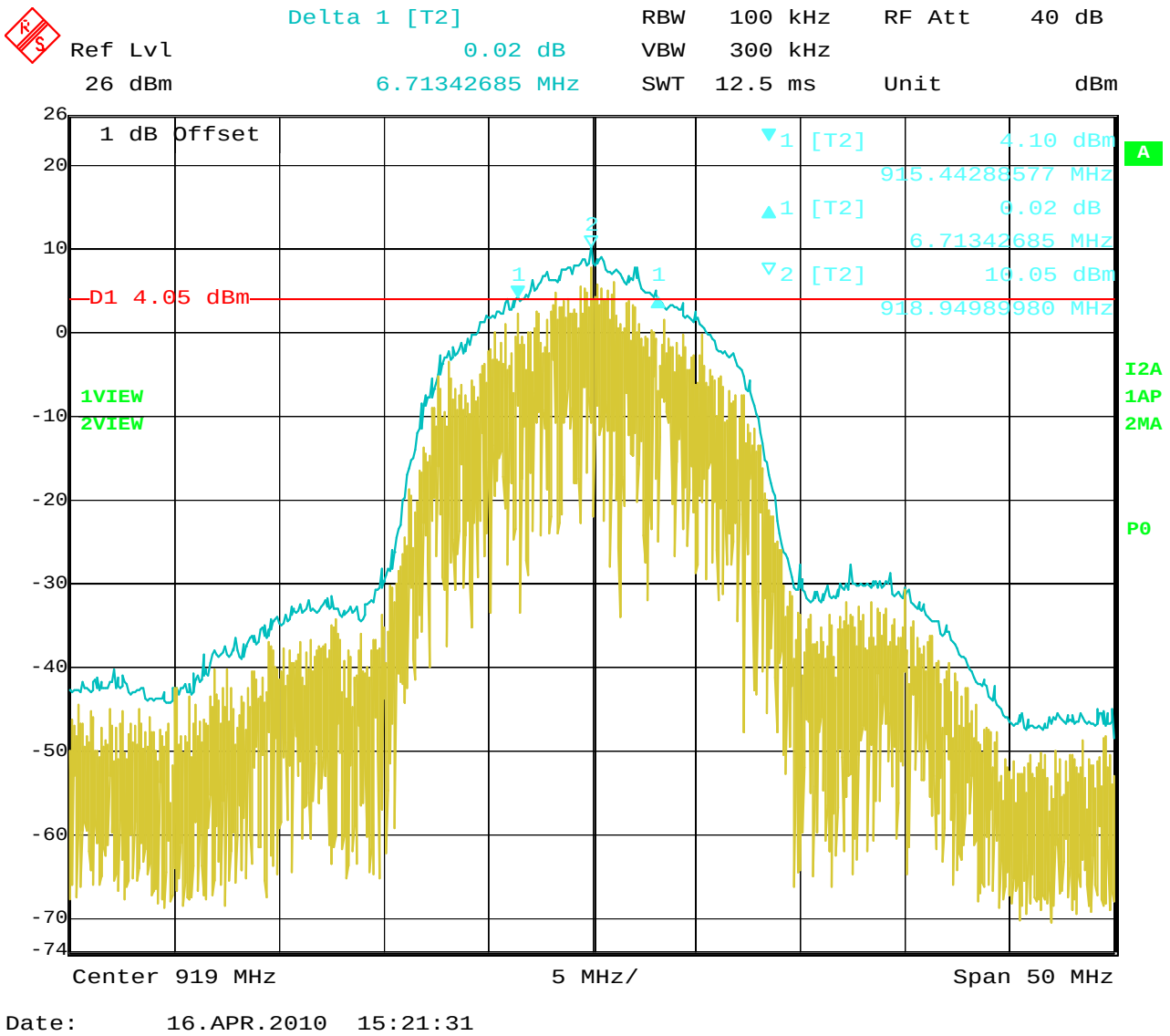



Bandwidth 6 dB – Low Channel




Date: 19.APR.2010 08:43:58

Bandwidth 6 dB – Middle Channel




Bandwidth 6 dB – High Channel

# *PEAK POWER OUTPUT*

# *DATA SHEETS*

# PEAK OUTPUT POWER

# KONIGSBERG INSTRUMENTS, INC.

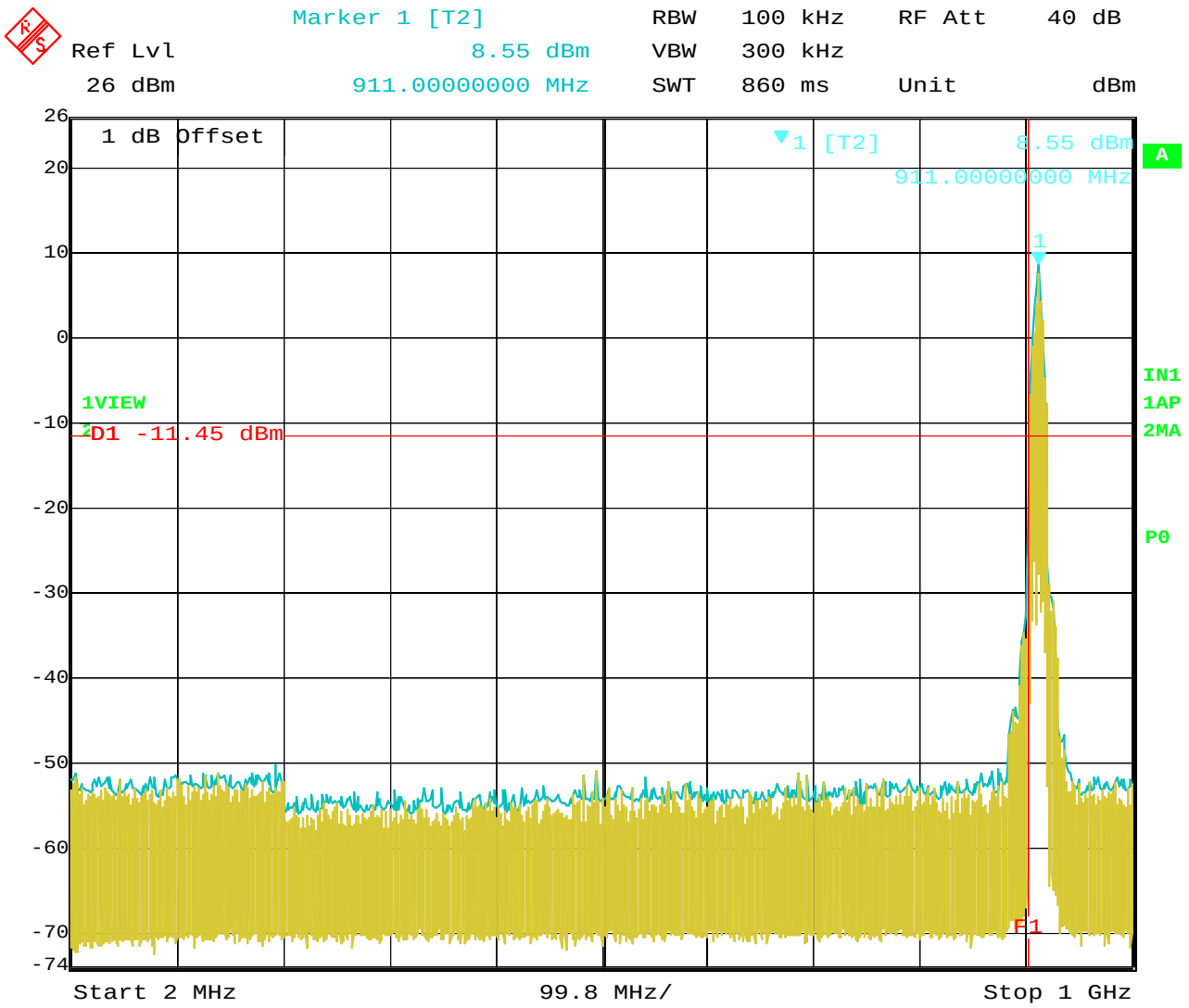
# MYOPAC WIRELESS TRANSMITTER

# Model: T50-6

| CHANNEL | PEAK POWER OUTPUT (dBm) |
|---|---|
| LOW (911 MHz) | 22.34 |
| MID (915 MHz) | 22.22 |
| HIGH (919 MHz) | 22.11 |

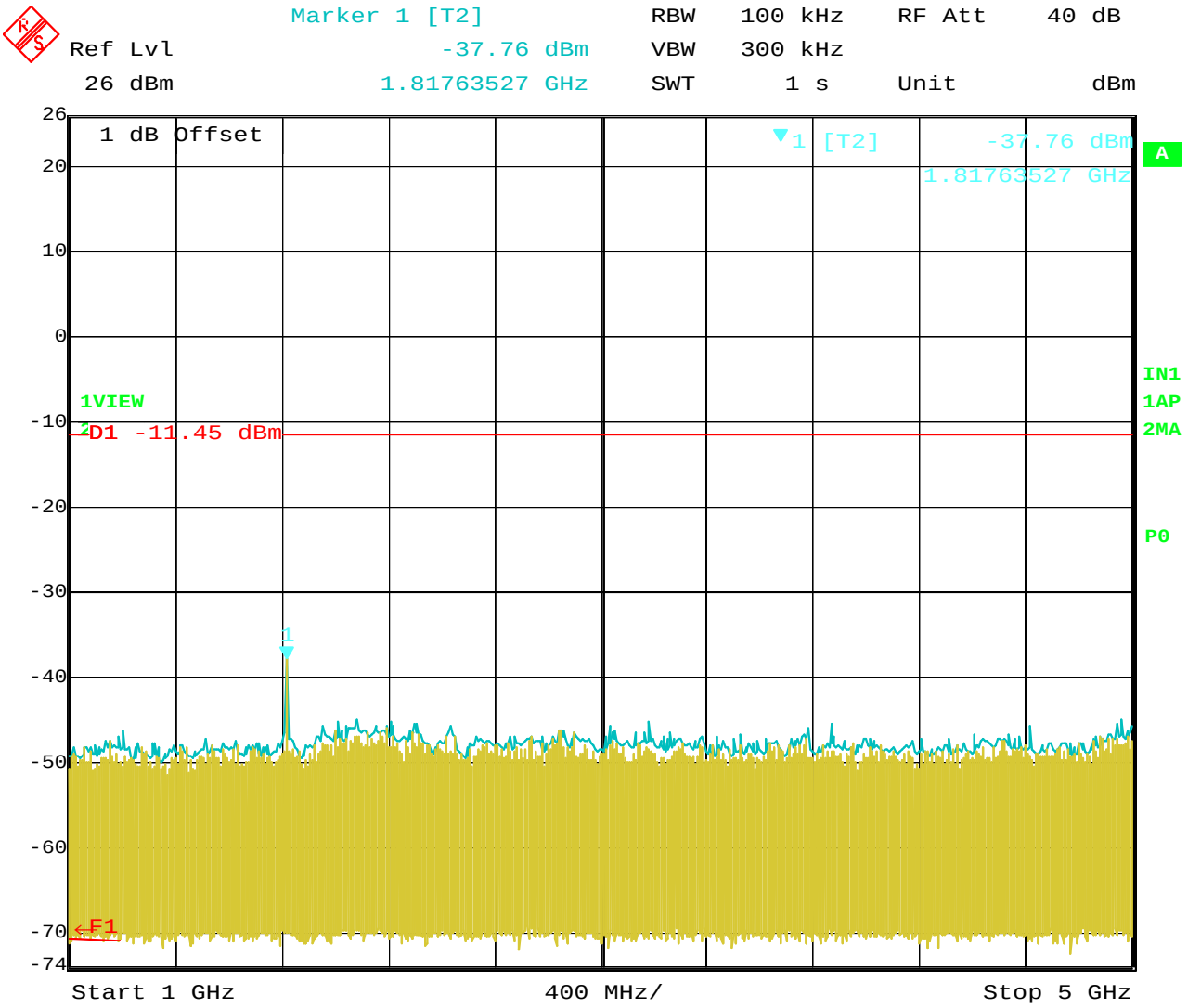
# *RF CONDUCTED ANTENNA TEST*

# *DATA SHEETS*



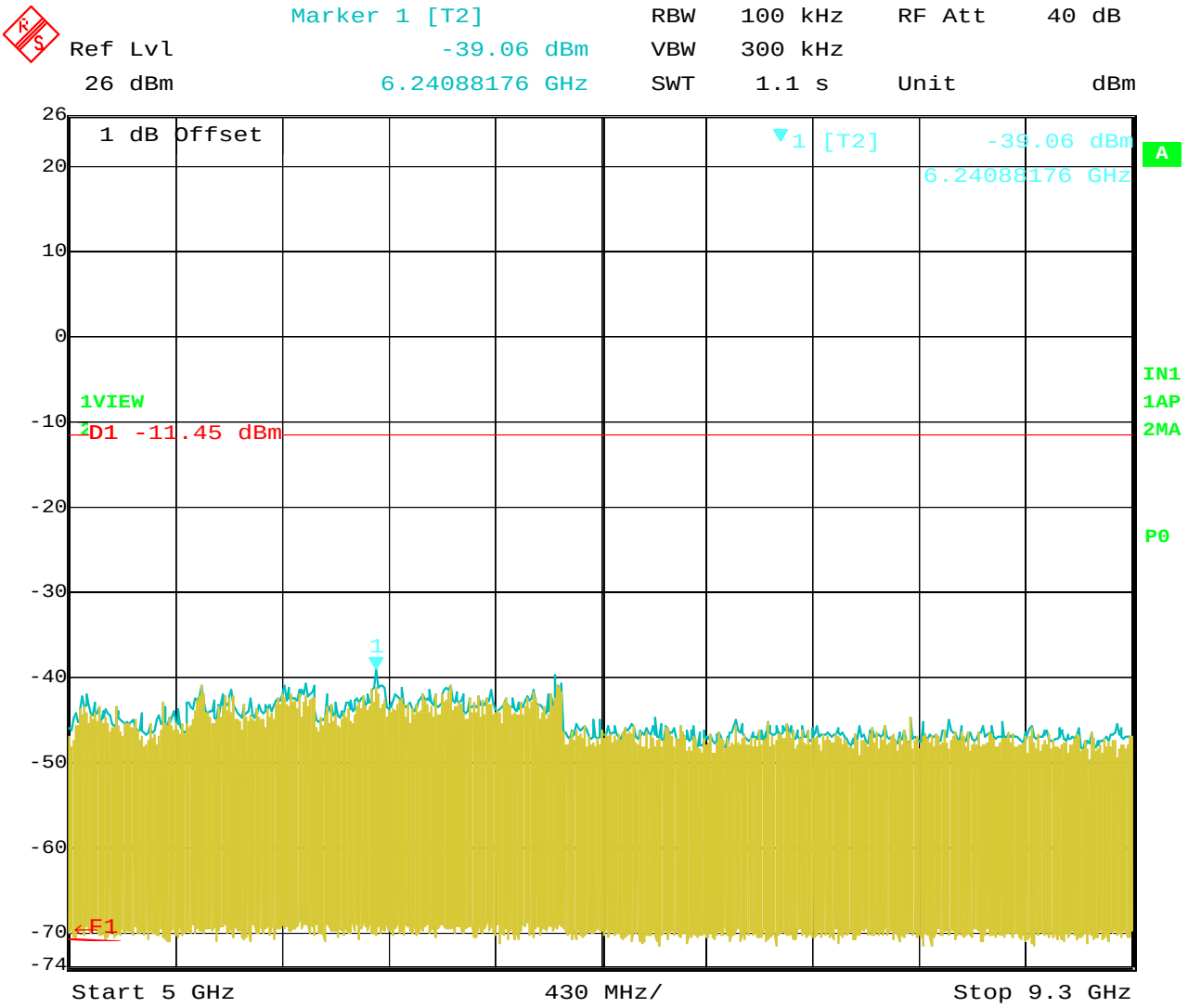

Date: 16.APR.2010 15:42:04

RF Antenna Conducted Test – Low Channel – 2 MHz to 1 GHz



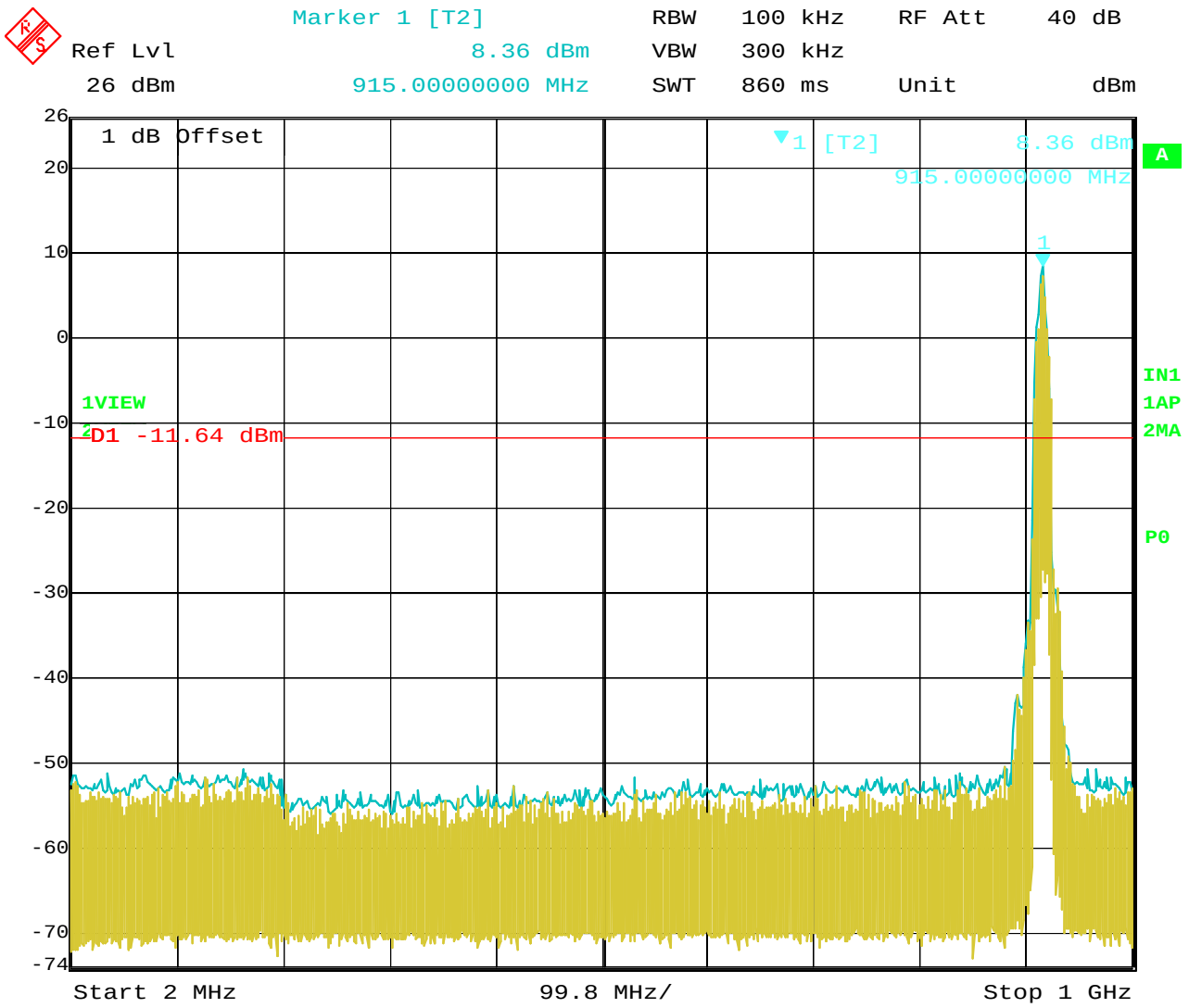

Date: 16.APR.2010 15:42:42

RF Antenna Conducted Test – Low Channel – 1 GHz to 5 GHz



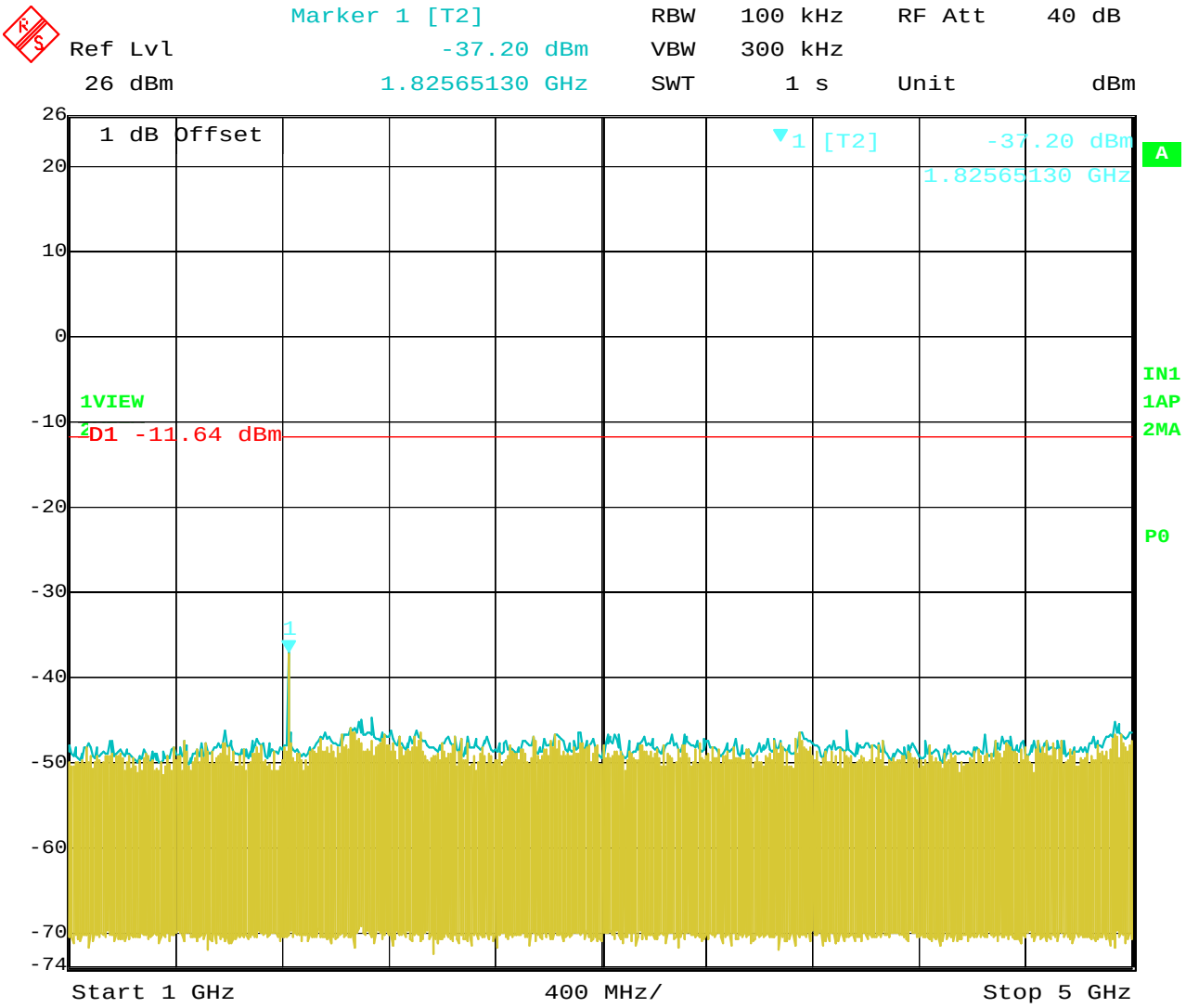

Date: 16.APR.2010 15:46:17

RF Antenna Conducted Test – Low Channel – 5 GHz to 9.3 GHz



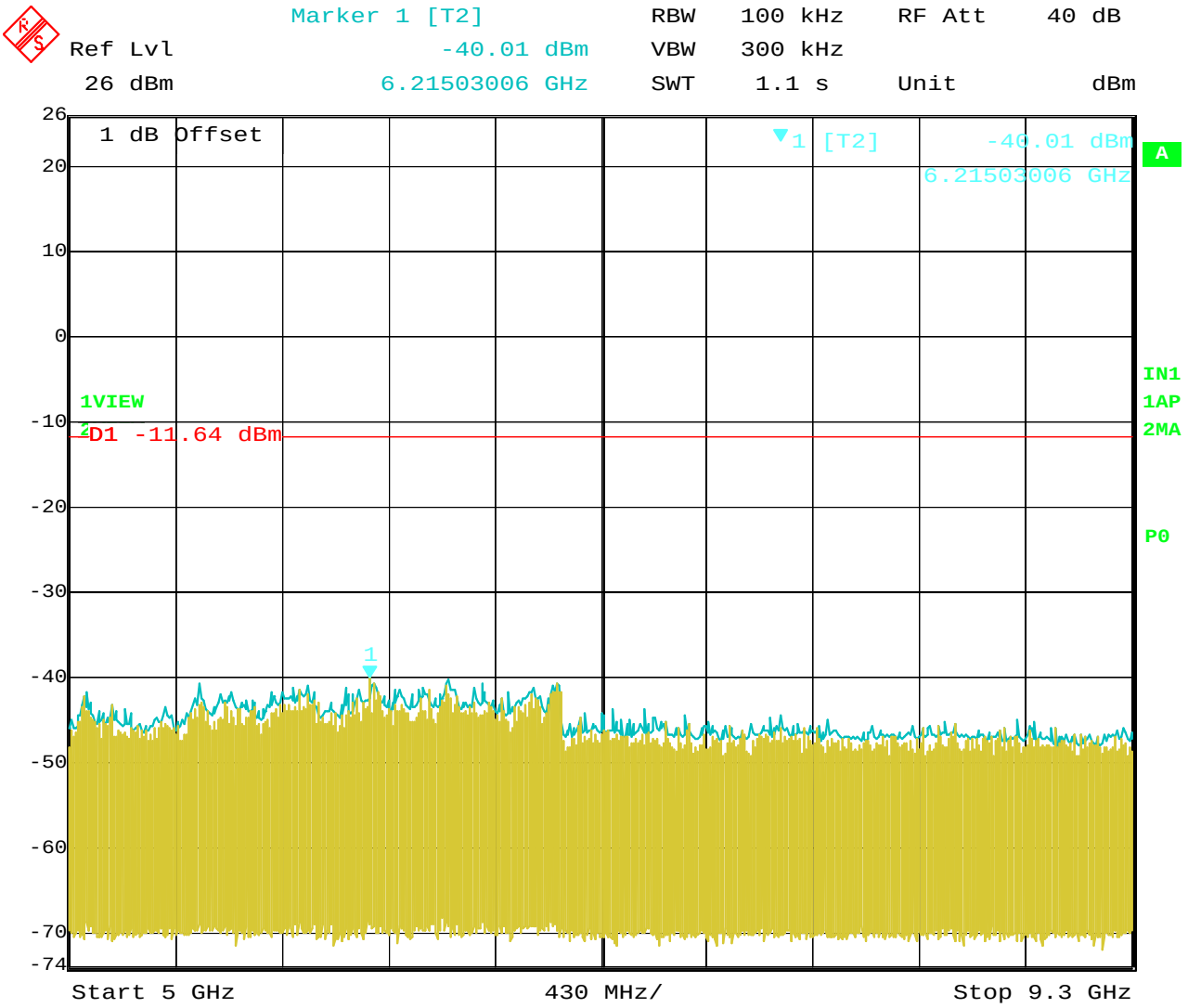

Date: 19.APR.2010 08:39:07

RF Antenna Conducted Test – Middle Channel – 2 MHz to 1 GHz



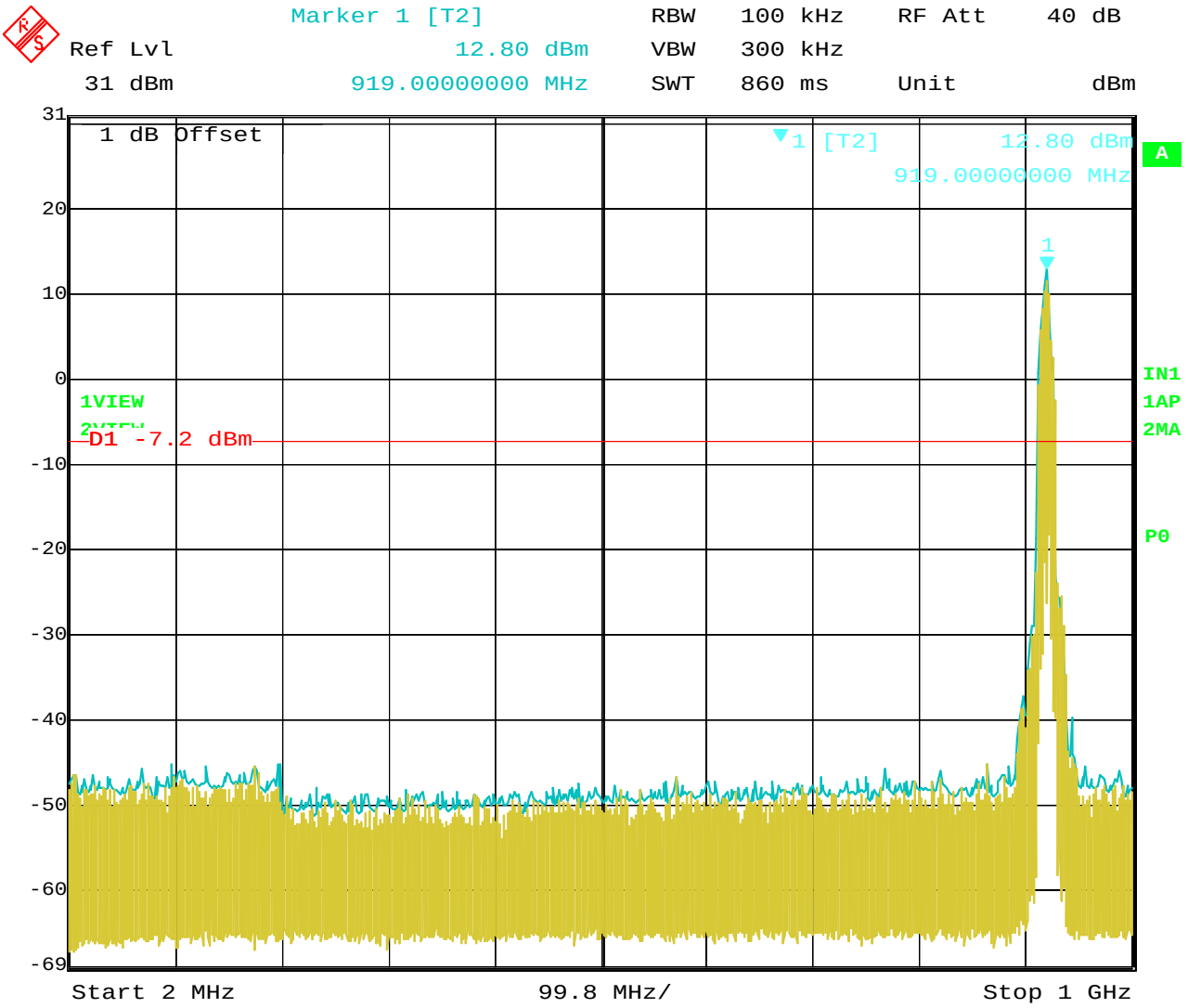

Date: 19.APR.2010 08:39:39

RF Antenna Conducted Test – Middle Channel – 1 GHz to 5 GHz



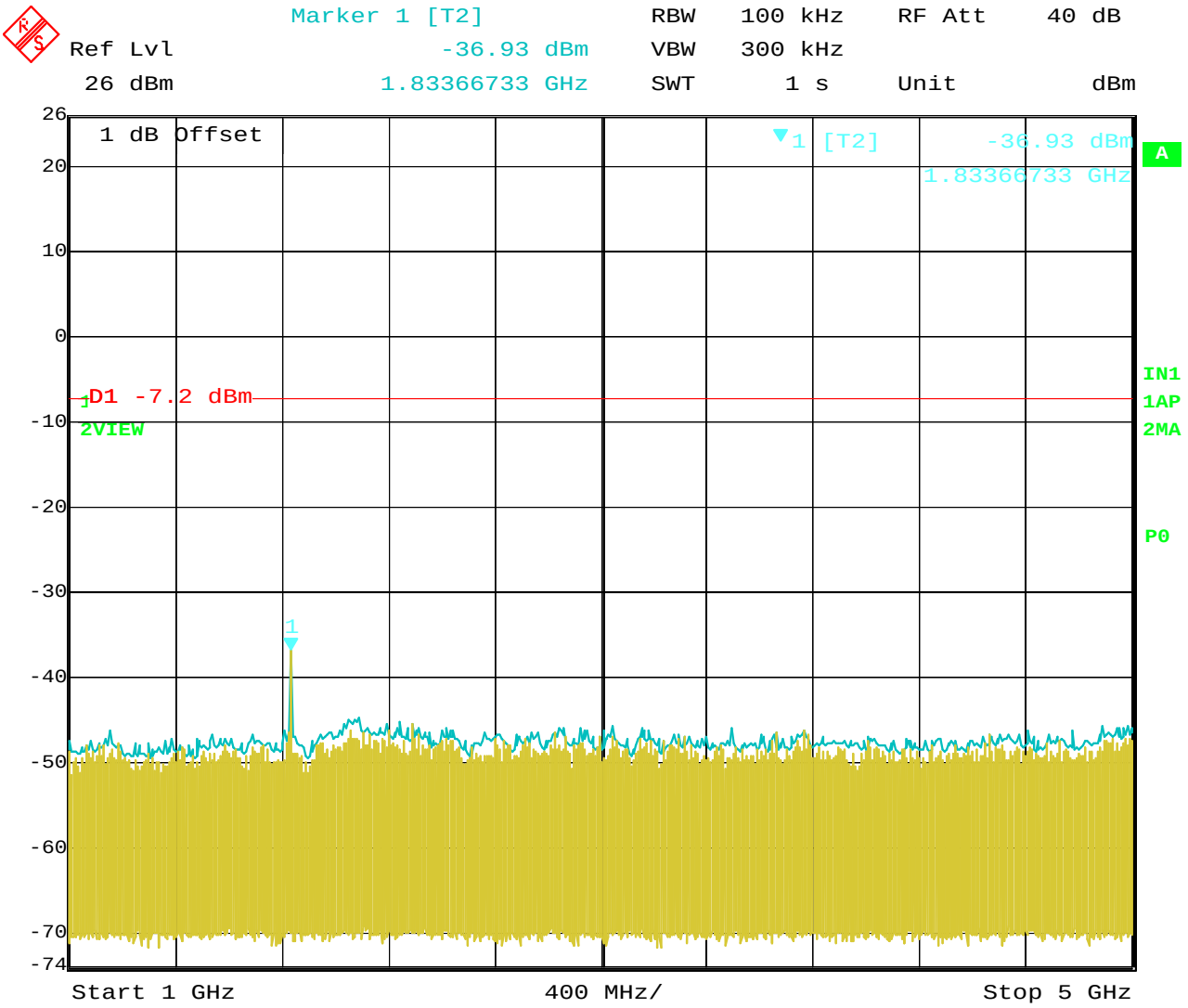

Date: 19.APR.2010 08:40:11

RF Antenna Conducted Test – Middle Channel – 5 GHz to 9.3 GHz



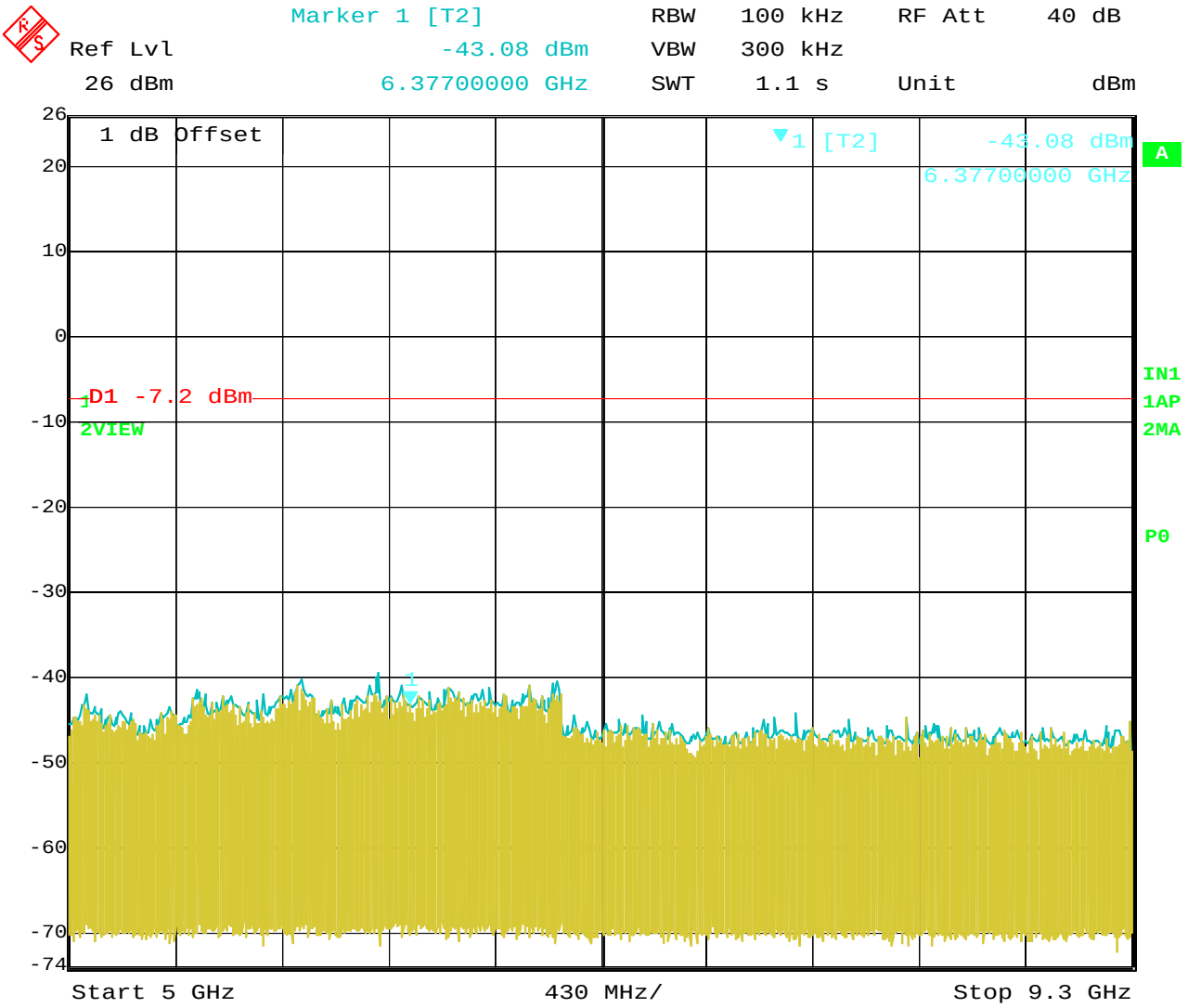

Date: 16.APR.2010 15:29:14

RF Antenna Conducted Test – High Channel – 2 MHz to 1 GHz




Date: 16.APR.2010 15:30:51

RF Antenna Conducted Test – High Channel – 1 GHz to 5 GHz

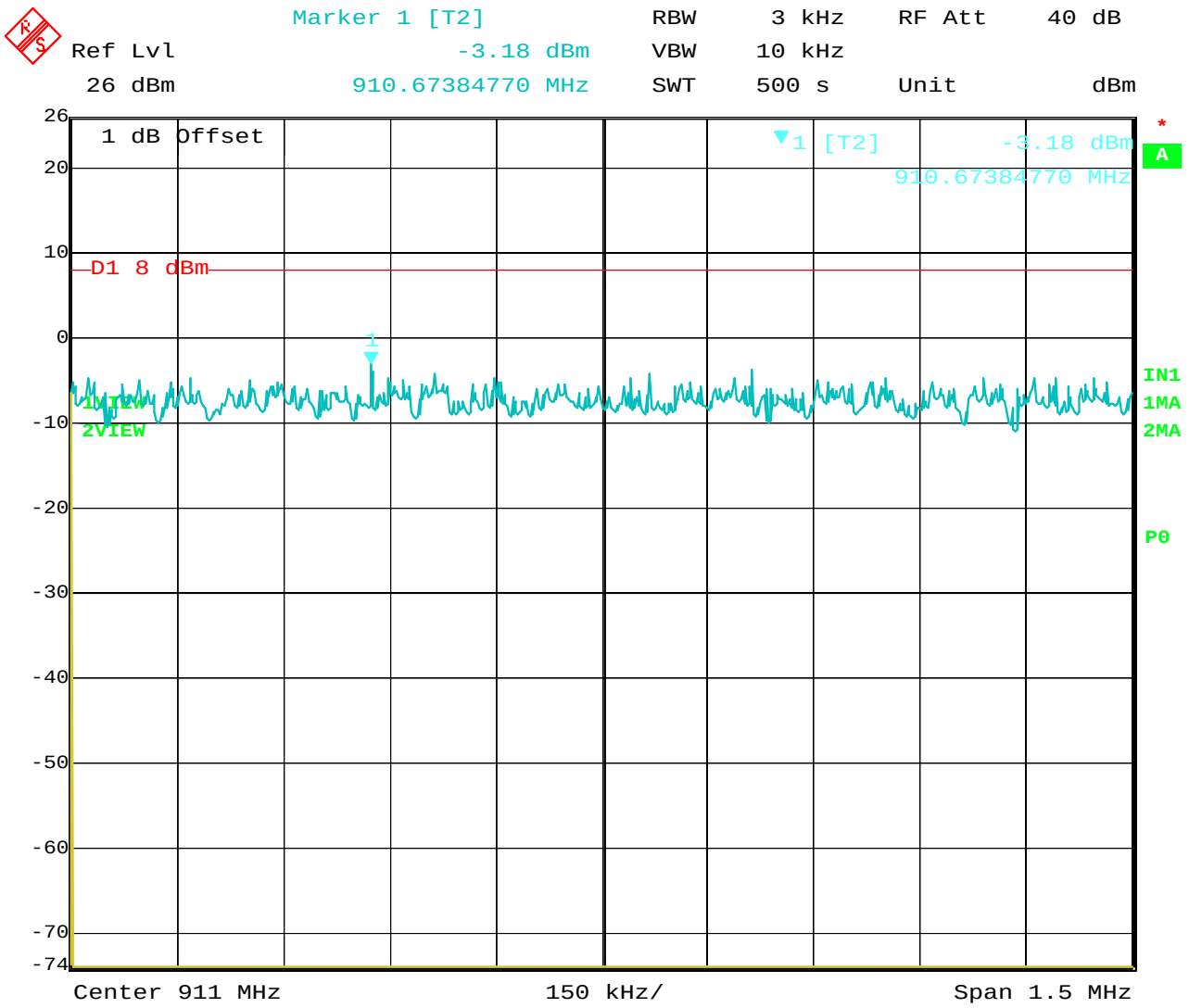



Date: 16.APR.2010 15:31:25

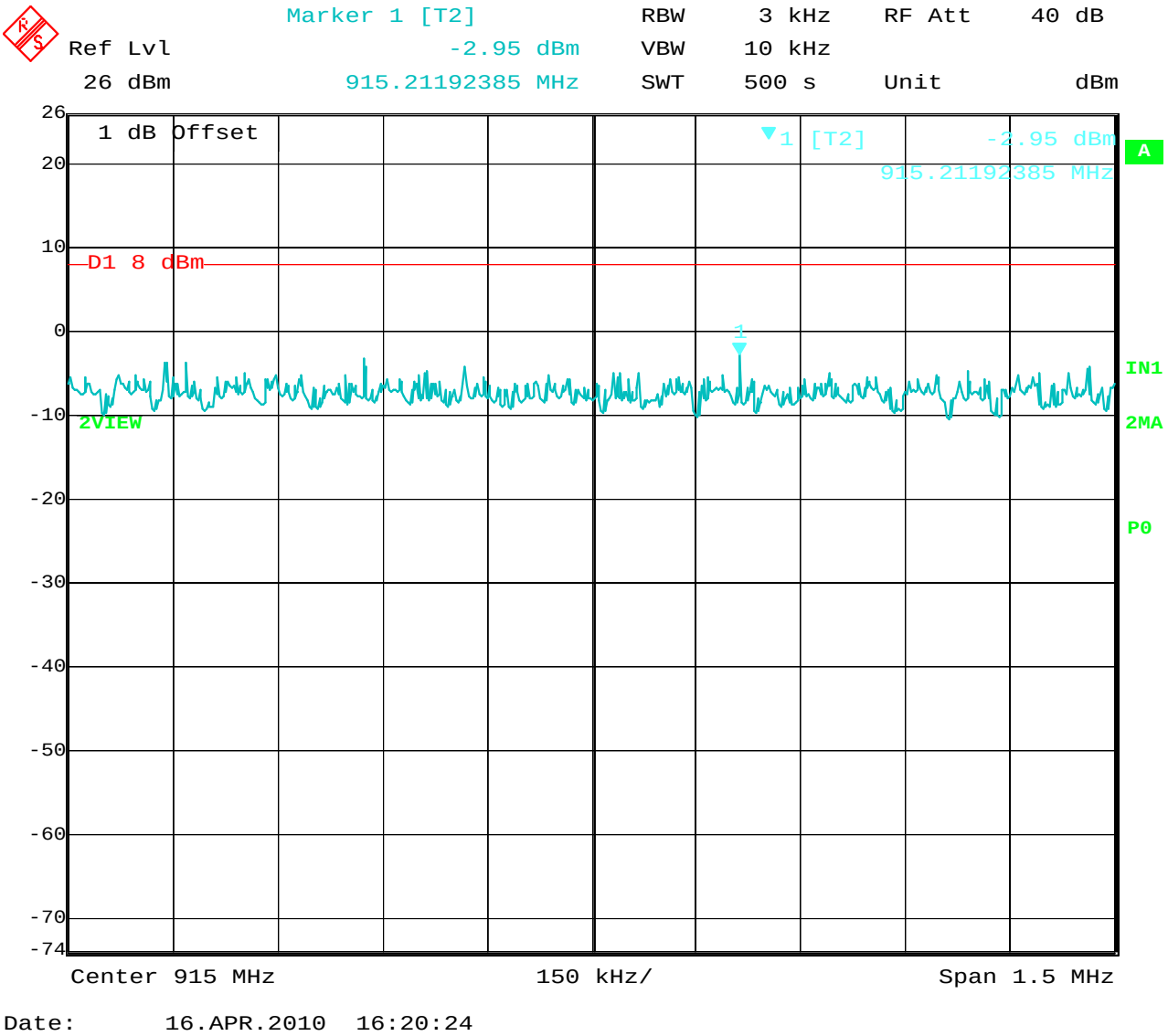
RF Antenna Conducted Test – High Channel – 5 GHz to 9.3 GHz

# *SPECTRAL DENSITY OUTPUT*

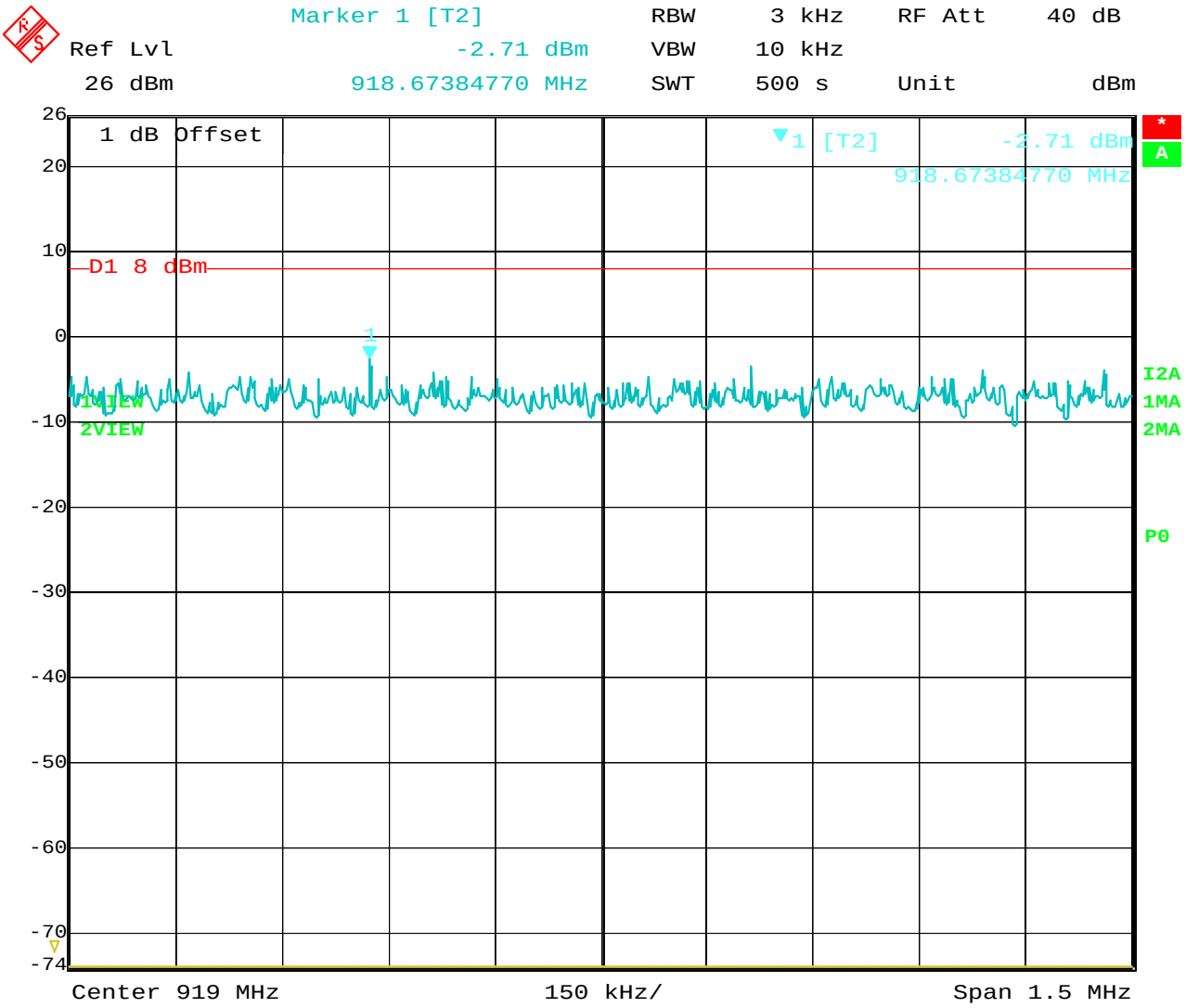
# *DATA SHEETS*




Spectral Density Output – Low Channel




Spectral Density Output – Middle Channel

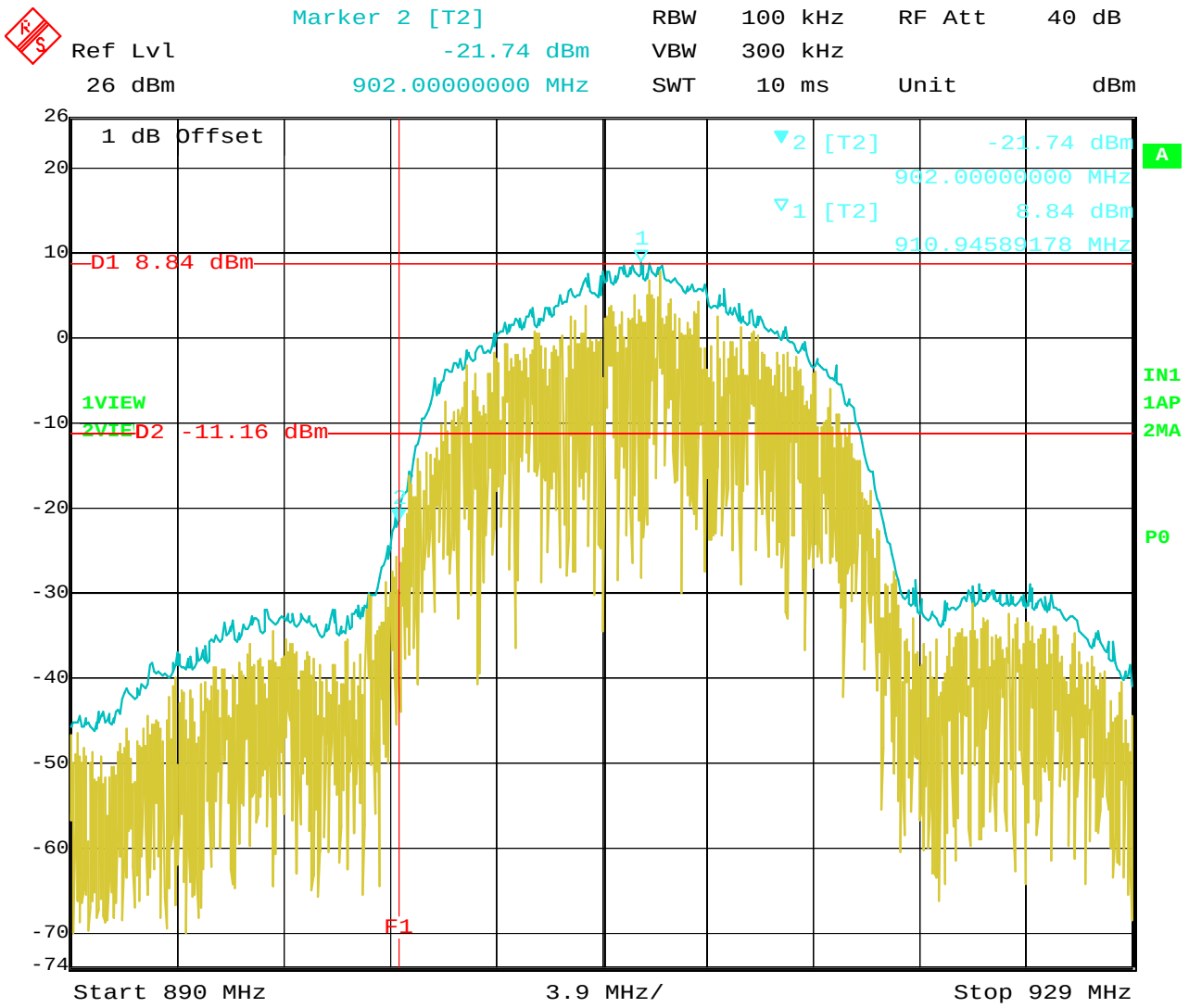



Date: 16.APR.2010 15:19:47

Spectral Density Output – High Channel

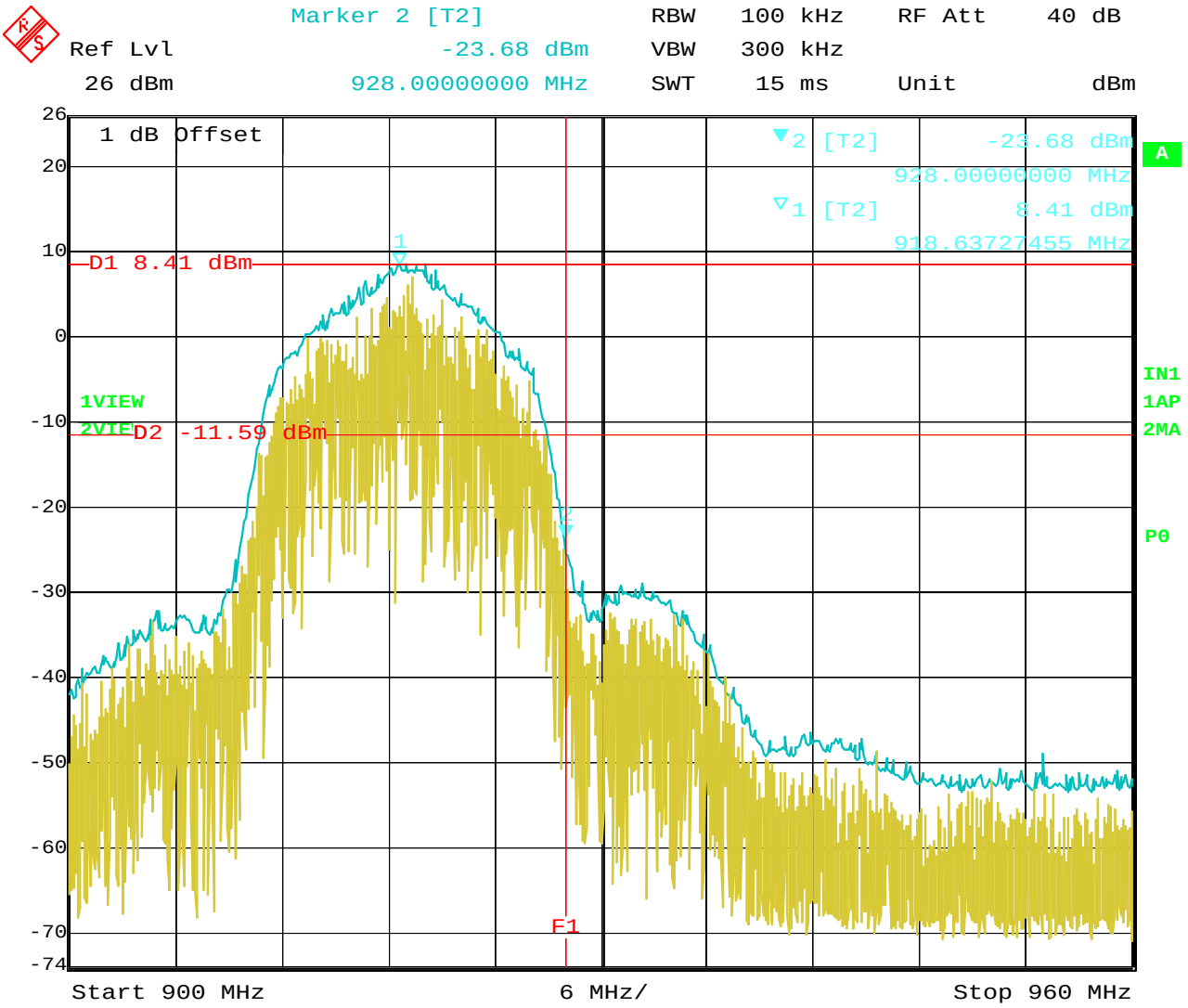
# *BAND EDGES*

# *DATA SHEETS*




Date: 16.APR.2010 15:40:20

Band Edge – Low Channel




Date: 16.APR.2010 15:33:24

Band Edge – High Channel