



Report No.: 050936 rev.01 US
FCC ID: MS3S2G0508
Client: Ever Win International Corp.

023



NVLAP LAB CODE: 200413-0

October 24, 2005

Test Record

Product Verification
According to FCC Part 15 Subparts C

for

Ever Win International Corp.
MODEL: S2G0508

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Revision History

| Revision | Date | Description of Changes | Author |
|----------|--------------|------------------------|---------|
| 0.1 | 24 Oct. 2005 | Initial document | S. Sohn |
| | | : | |
| | | | |

Introduction – Test Plan

This report describes the results of all measurements made on portable FM transmitter which falls under the class of intentional radiator by the FCC Part 15 Subpart C Rules and Regulations.

This EUT is designated:

**Wireless Audio FM Transmitter for
personal use.**

Model :

S2G0508

The EUT was tested in full compliance with the FCC Regulations using the methods of FCC Part 15 Subpart C “Intentional Radiators”; ANSI C63.4: 2003 and Part 2 “Frequency Allocations and Radio Treaty Matters; General Rules and Regulations”. The results of the testing indicate that the product met the Part 15 C limits and requirements.

1.0 CERTIFICATION OF TEST DATA

Verification statement.

The data, data evaluation and equipment configuration represented herein are a true and accurate representation of the test sample (EUT), and characteristics and measurements obtained as of the dates and the times of the test under the conditions specified and to the methods of FCC Part 15, Subpart C “Intentional Radiators” and Part 2 “Frequency Allocations and radio Treaty Matters; General Rules and regulations”

The test results provided with this report, indicate that the equipment tested:
WIRELESS AUDIO FM TRANSMITTER FOR PERSONAL USE. MODEL : S2G0508 is compliant with the following Rules and Regulations

- A. 47 Code of Federal Regulations, Part 15 Subpart C
- B. 47 Code of Federal Regulations, Part 2
- C. ANSI C63.4: 2003

Tests performed by:

Sandra Sohn
EMC Test Engineer

Report prepared by:

Sandra Sohn
EMC Test Engineer

Report approved by:

Leon Kogan
Technical Director,

2.0 GENERAL INFORMATION

2.1 Client Information

Company Name: Ever Win International Corp.
Contact: Alex Samson
Company Address: 17579 Railroad Street
City of Industry, CA 91748
Phone: (626) 810-8218

2.2 Administrative Data

Device tested: Audio FM Modulator for personal use
Model: S2G0508
Equipment category: Intentional Radiators
Accessories: N/A
Purpose of test: Compliance to FCC Rules and Regulations, Part 15, Subpart C
Date of test: 10/06/05 & 10/07/05
Place of the test: JMR Electronics, Inc.
Compliance Engineering Laboratory
20400 Plummer Street
Chatsworth, CA 91311
Phone: (818) 993-4801

3.0 Description of Equipment Under Test (EUT)

3.1 Brief Description of the EUT

The EUT is a portable FM Transmitter which is designed to connect to a personal MP3 player or cell phone and allow reception of the transmitted signal using a standard FM radio. There are six (6) available channels. Pressing switch will increment the frequency to the next channel.

There is no ON/OFF switch for this product. Circuit goes ON when product is plugged to automobile cigarette lighter outlet. Power consumption of FM transmitter IC is 20ma typical at 5v.

Wires connecting to MP3 player are used as the antenna. Alteration of antenna by user is not possible.

The EUT was configured on a table top. device and was tested with standard MP3 player connected. The modulation frequency was provided by external Test Oscillator HP 651B.

Operating frequencies : 88.1, 88.3, 88.5, 88.7, 88.9, 89.1, 89.389.5 MHz.

Clock frequencies : 7.6 MHz

Power Supply : External 12VDC battery.

3.2 Test Run

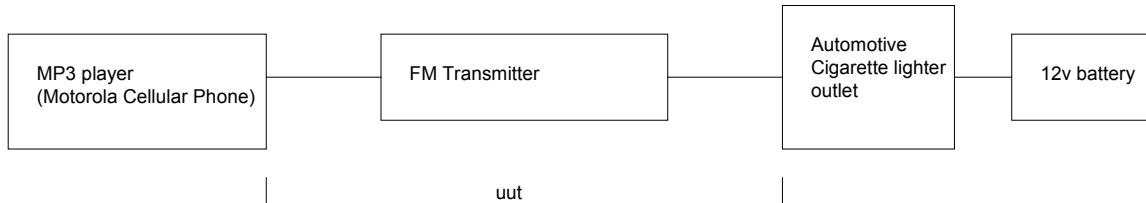
- 1) The EUT was connected through Stubby cigarette lighter connector to the 12VDC battery
Motorola Cellular phone, as a standard MP3 player, was connected to the appropriate input/output of the EUT;
- 2) For tests required modulation of EUT fundamental frequency, Test Oscillator HP 651B had been connected directly via clip leads to the input connector of the EUT

For test purposes the following three channels were selected for measurements :

88.1 MHz 88.7 MHz 89.5 MHz

Each channel had generated its frequency continuously for the duration of the testing. The above mentioned set-up allowed the article to perform sufficiently for the test purposes and required time.

3.3 Block Diagram of the Test Setup



3.4 Support Equipment List:

| No | Equipment | Model | S/N (last 6) | Notes |
|----|------------------------|-------|--------------|-------------------------|
| 1 | HP Test Oscillator | 651B | 1230A08435 | |
| 2 | MP3 player | A1112 | 5F507SL9RS9 | Motorola Cellular phone |
| 3 | Standard 12VDC battery | N/A | N/A | |

3.5 Cabling Configuration

Power Cords:

| | |
|----------|-------------------------|
| Unit | HP 651B Test Oscillator |
| MFG | Standard |
| Shielded | No |
| Length | 2 m |

I / O Cables External:

| | |
|------------|---|
| Connection | AUX In of the EUT to Out, 50 Ohm of the HP 651B |
| Cable | Generic 50 Ohm RF cable |
| Shielded? | Yes |
| Connector | BNC, Jack |
| Length | 0.3 m |

3.6 Photos of the EUT



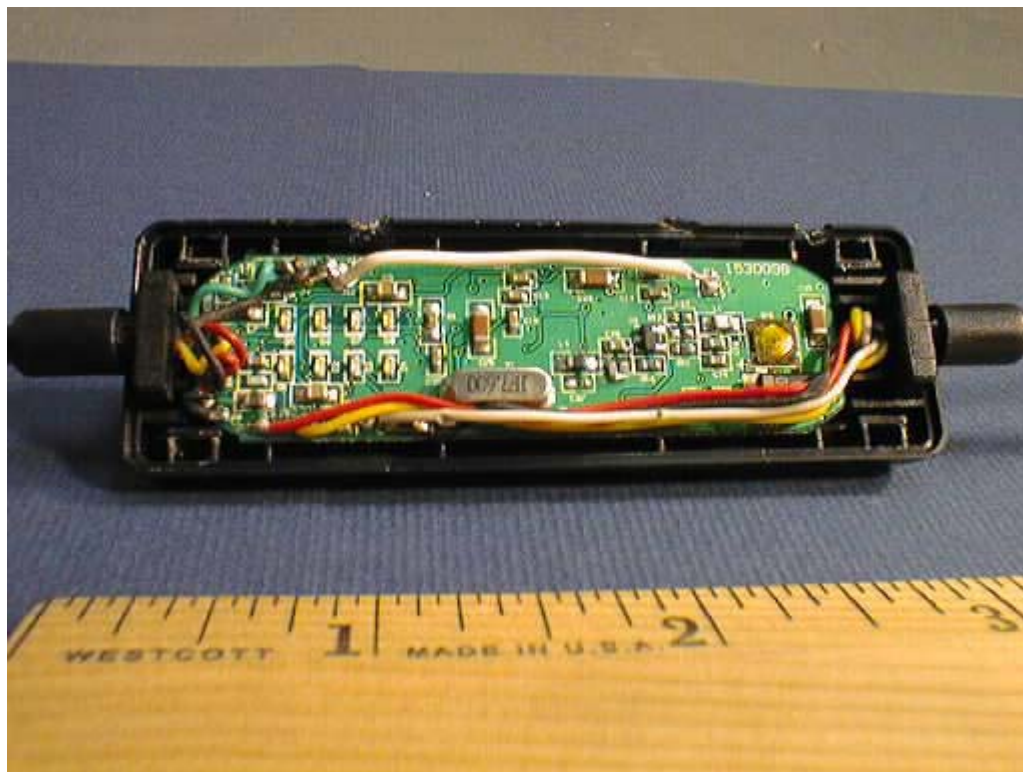
**EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508**



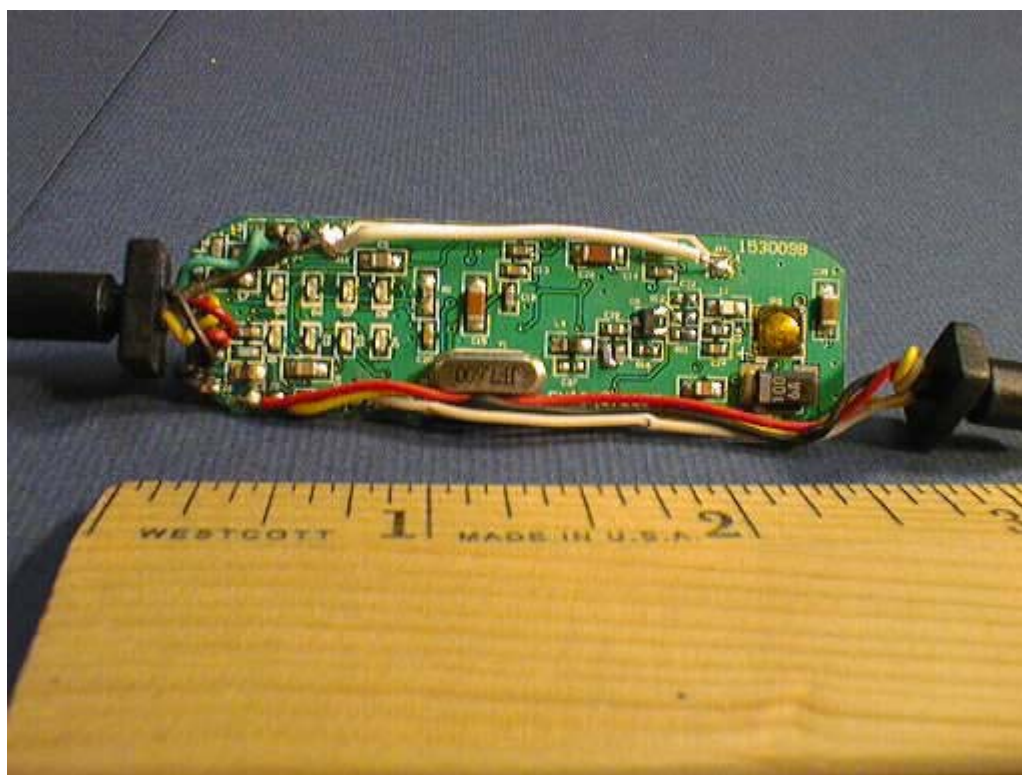
EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
FM Modulator
Top View



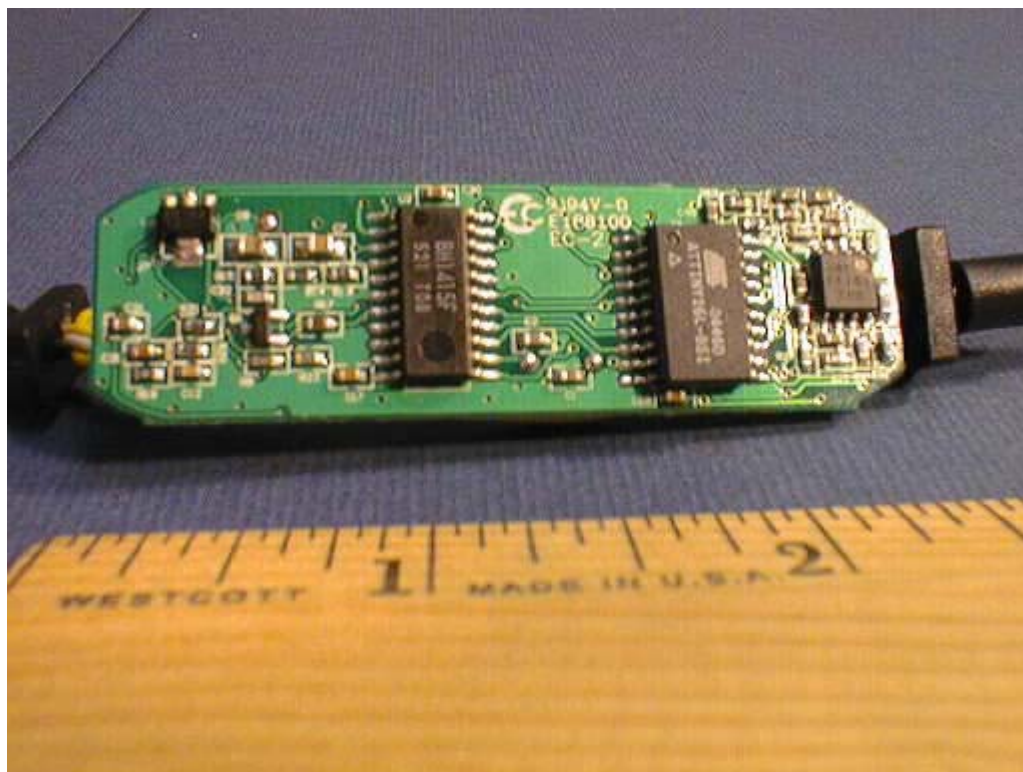
EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
FM Modulator
Bottom View



EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
FM Modulator
Open enclosure



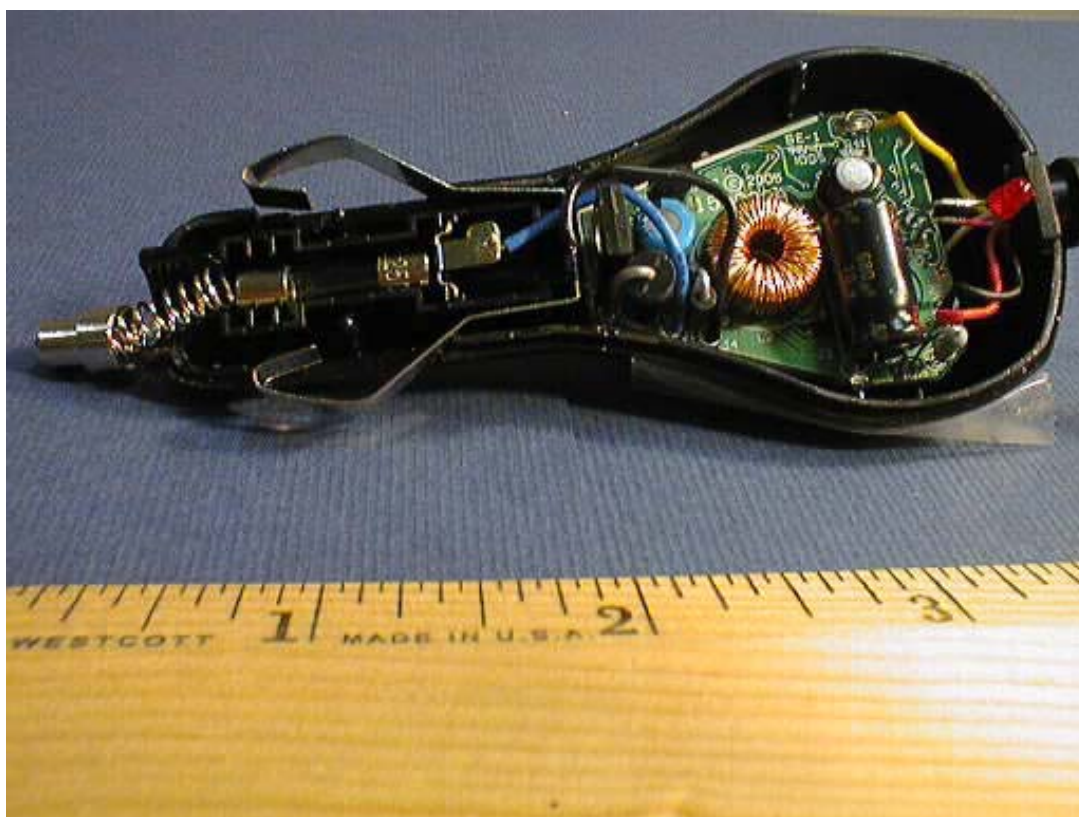
EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
FM Modulator
PCB components side



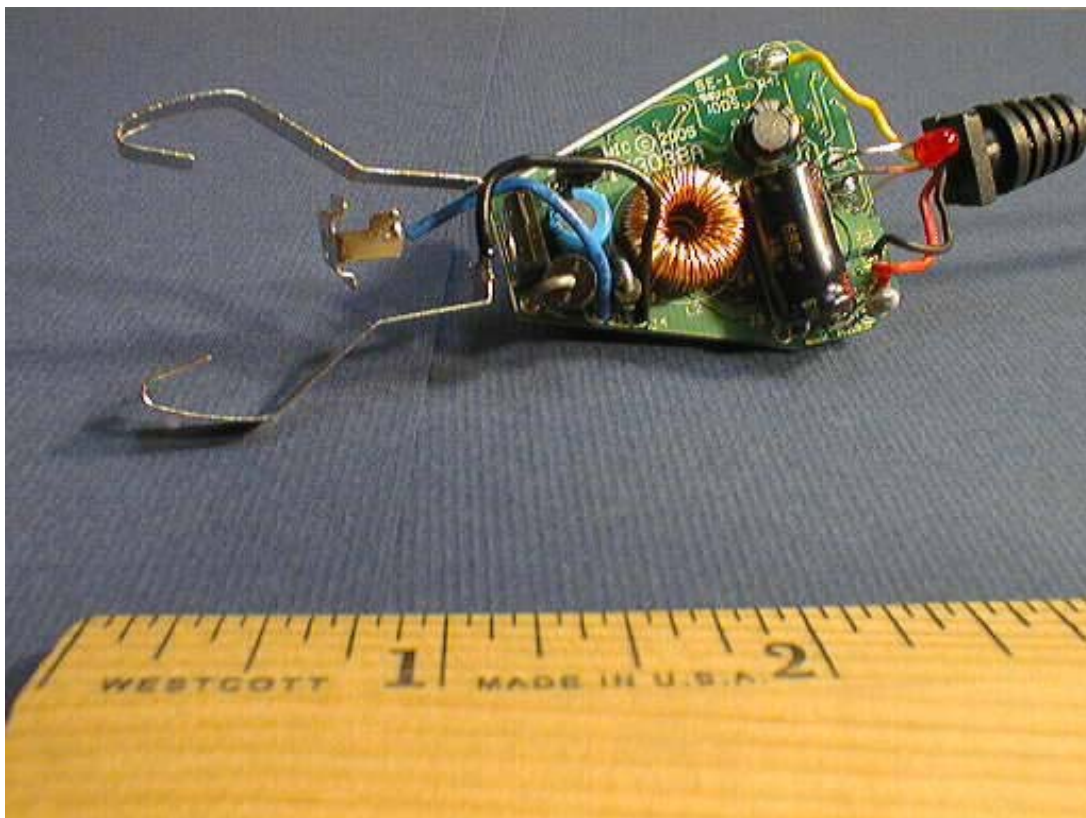
EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
FM Modulator
PCB solder side



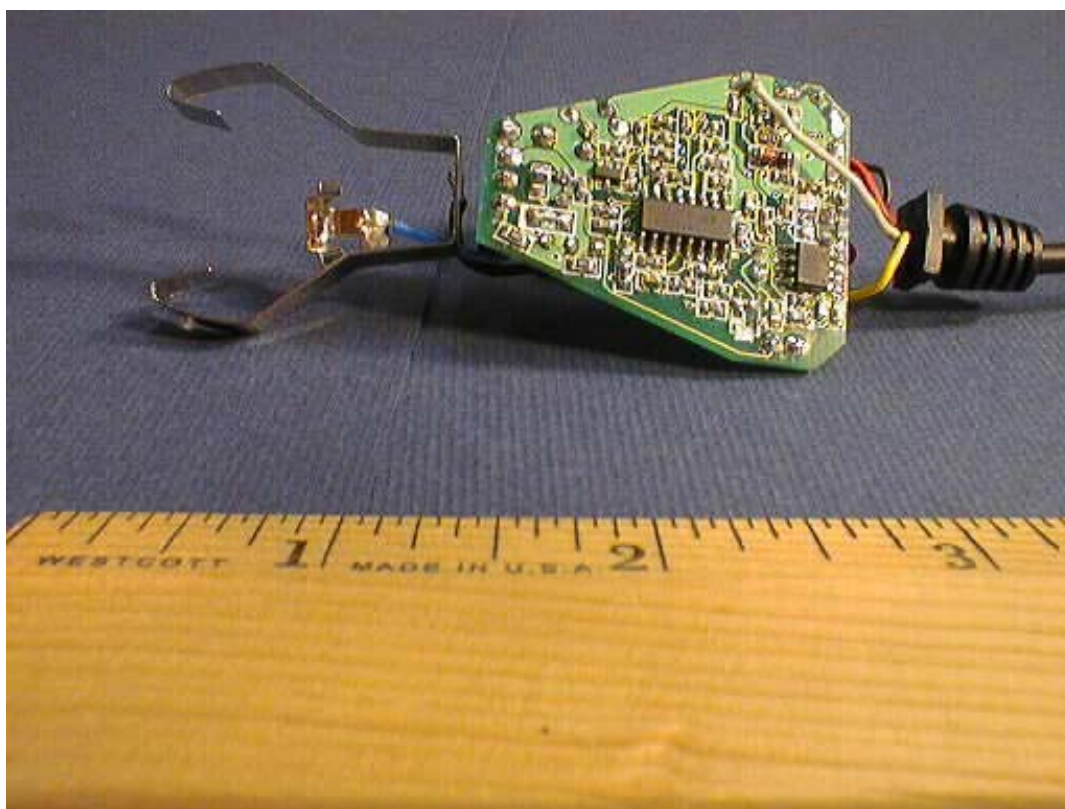
EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
Monster Stubby Cigarette Lighter connector



EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
Monster Stubby Cigarette Lighter connector
Open covers



EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
Monster Stubby Cigarette Lighter connector
PCB components side



EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508
Monster Stubby Cigarette Lighter connector
PCB solder side



**EUT: AUDIO FM TRANSMITTER.
MODEL : S2G0508**

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3.7 EUT Modifications

N/A

3.8 Photographs of EUT Modifications

N/A

4.0 Test equipment used

| Device | Model No. | Serial No. | Last Cal. | Next Cal |
|-----------------------------------|------------------|------------|-----------|----------|
| Cable 1 | 8214 | CBL-006 | 06/21/05 | 06/21/06 |
| Analyzer | HP85462A | 3325A00120 | 04/11/05 | 04/11/06 |
| Cable 2 | 8268 | CBL-002 | 06/21/05 | 06/21/06 |
| Preselector | HP85460A | 3330A00117 | 04/11/05 | 04/11/06 |
| Qpeak Adapter | HP85462 Internal | Internal | 04/11/05 | 04/11/06 |
| Pre-Amplifier | None | | | |
| Tower 1 | EMCO 1050 | 9310-1786 | N/A | N/A |
| Turntable 1 | EMCO 1060 | 9409-1753 | N/A | N/A |
| Bilog Antenna | CBL6112B | 2604 | 08/08/05 | 08/08/06 |
| DRG Horn Antenna | SAS-200/571 | 175 | 10/18/05 | 10/18/06 |
| Log-Periodic Antenna | CBL6111 | 11167 | 11/01/04 | 11/01/05 |
| Cable1 | RG-214/U | CBL-001 | 06/21/05 | 06/21/06 |
| Shielded Semi-Anechoic Chamber | RANTEC | N/A | N/A | N/A |
| Digital Oscilloscope | DL1520 | 26WZ0171 | 12/16/04 | 12/16/05 |
| | | | | |
| | | | | |
| | | | | |
| Temperature and Humidity Recorder | Dickson TH8-24C | 5097755 | 09/18/05 | 09/18/06 |

5.0 Field Strength of Fundamental and Emissions within permitted band.

Test Requirements: FCC Part 15 : Subclause 15.239
Test Method: ANSI C63.4: 2003

Limit : The maximum Field Strength authorized within 200 kHz
is 250 uV/m @ 3m

Mode of operation: with and without modulation.

The test facility consists of a shielded semi-anechoic chamber with attached shielded control room. The semi-anechoic chamber is approximately 18 feet wide by 28 feet long by 19 feet high. A hybrid absorber combines high performance anechoic polyurethane foam with a ferrite tile base to achieve high levels of absorption and power dissipation capability.

The EUT had been placed at the 0.8 m height on the non-conducting table. Transmitter had been turned ON without modulation and worked at the frequencies of the selected channels.

All data was obtained via a HP 85876A EMI measurement software package using an HP 85462A Receiver which is compliant to CISPR 16. The EUT was configured in various geometric patterns to find the geometric configuration and EUT attitude that produced the largest RF power.

After determination of the maximum emissions configuration the distance of the EUT to the scanning antenna was set to 3 meters.

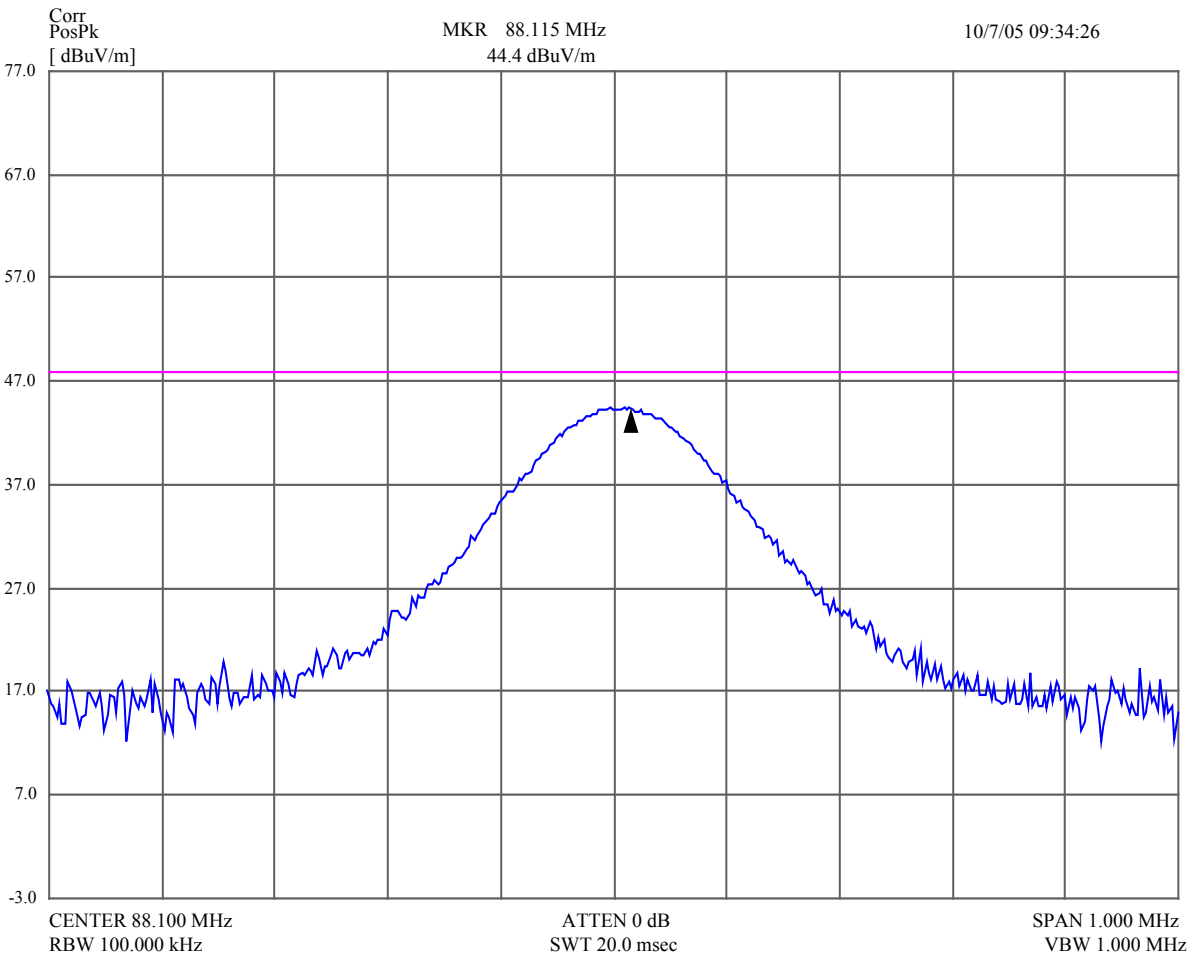
At each of three selected channels 88.1 MHz, 88.7MHz, and 89.5 MHz Field Strength of Emissions had been measured.

5.1. Channel 88.1 MHz

5.1.1 no modulation

Peak value data

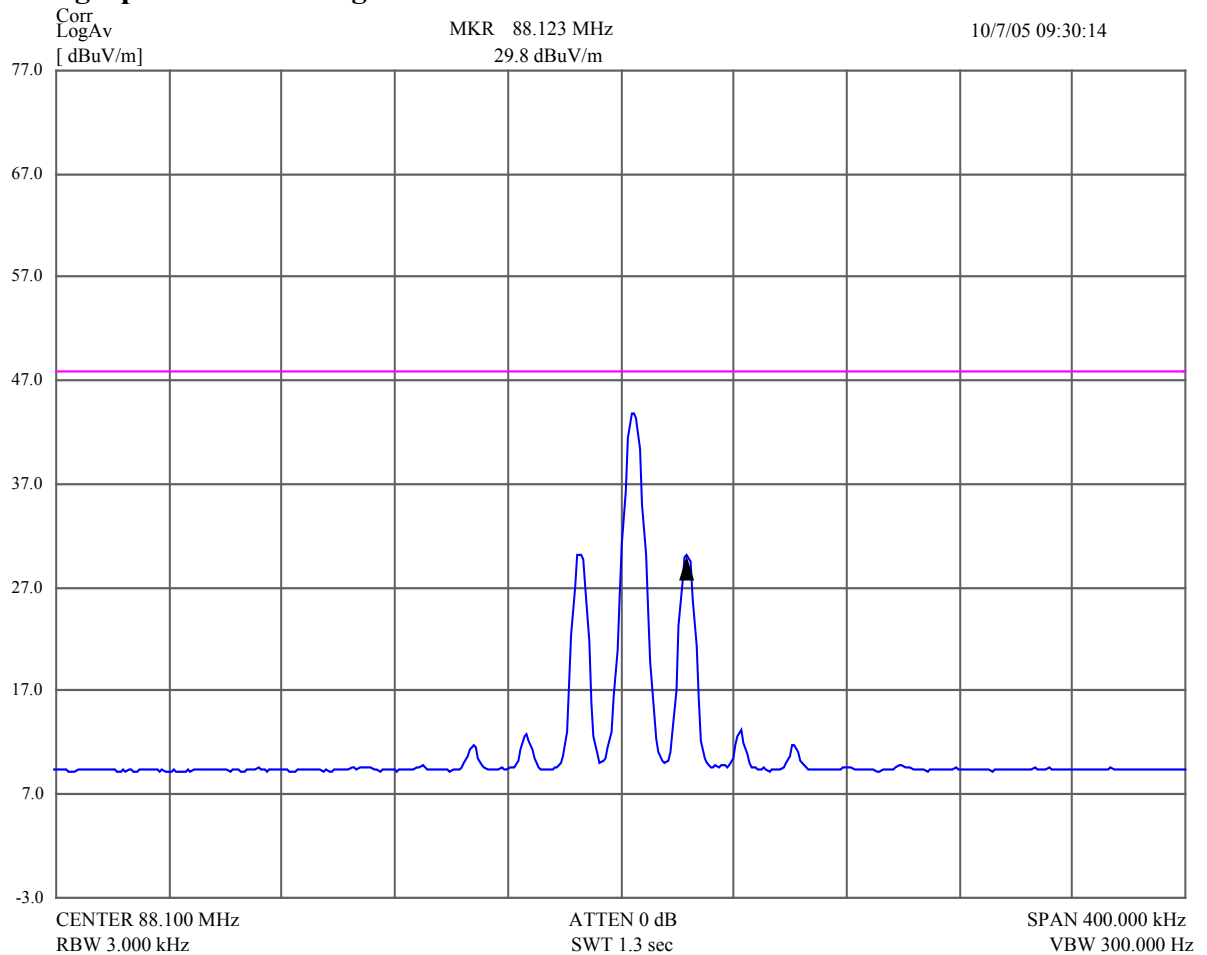
| Frequency MHz | PEAK dBuV/m | PEAK Lmt dBuV/m | Dellim-PEAK dB | Pol | Hgt cm | Angle deg | Status |
|------------------|----------------|--------------------|-------------------|------|-----------|--------------|--------|
| 88.115000 | 44.40 | 68.00 | -23.60 | Horz | 220 | 235 | PASS |



Average value data

| Frequency MHz | Avg dBuV/m | Avg Lmt dBuV/m | DelLim-Avg dB | Pol | Hgt cm | Angle deg | Status |
|------------------|---------------|-------------------|------------------|------|-----------|--------------|--------|
| 88.086000 | 30.14 | 48.00 | -17.86 | Horz | 193 | 17 | PASS |
| 88.105000 | 43.83 | 48.00 | -4.17 | Horz | 193 | 17 | PASS |
| 88.123000 | 29.84 | 48.00 | -18.16 | Horz | 193 | 17 | PASS |

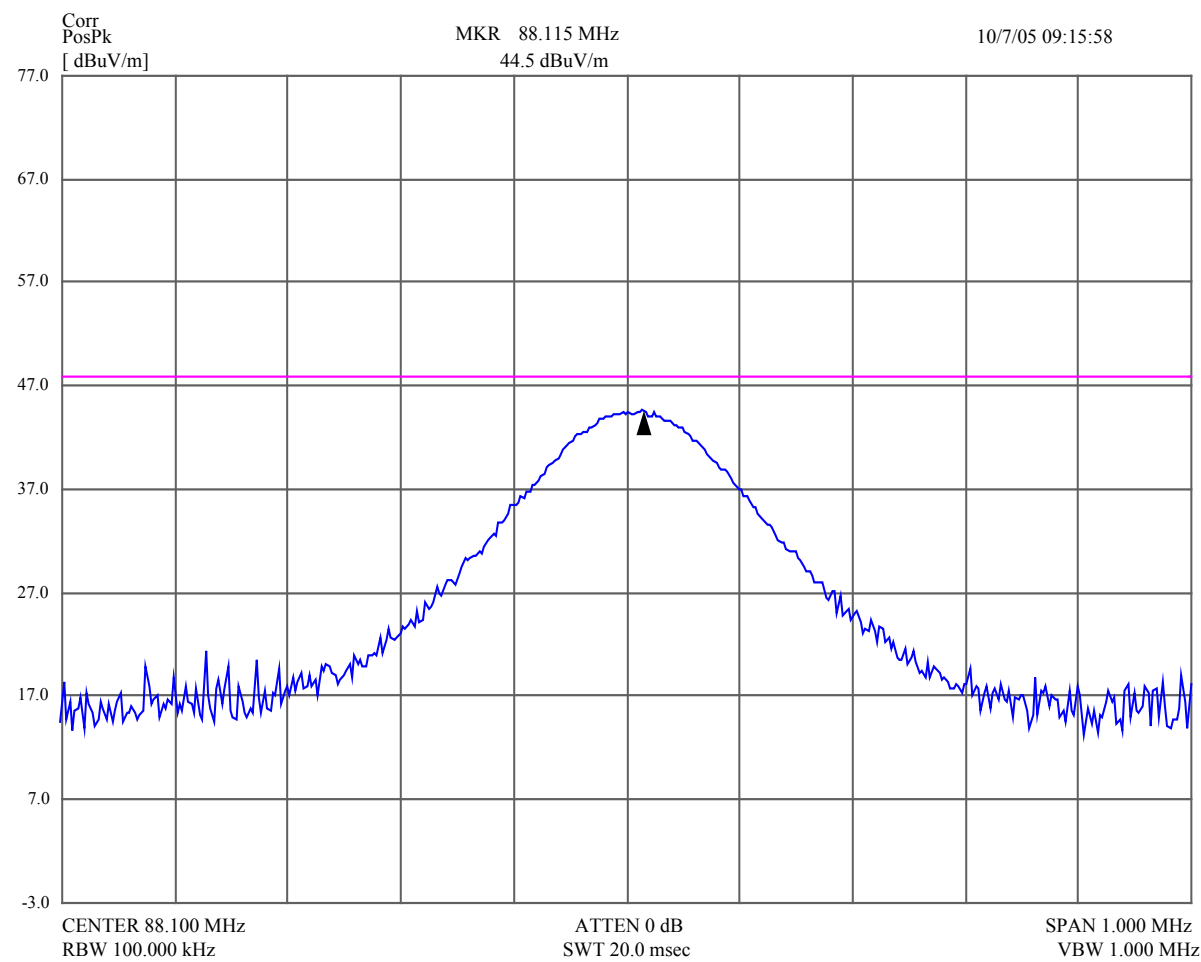
Receiver graph of Field Strength of Emissions at 3 m



5.1.2 with modulation

Peak value data

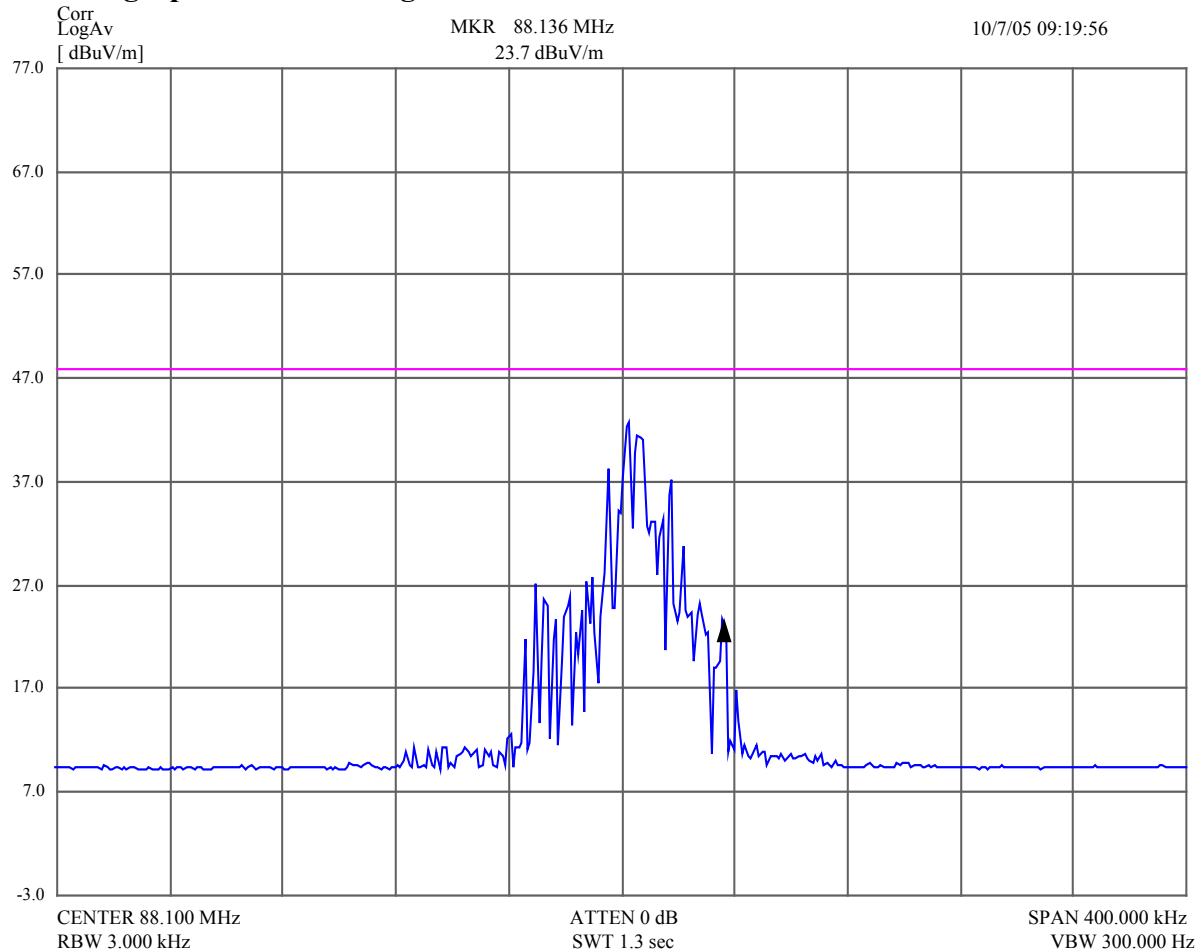
| Frequency MHz | PEAK dBuV/m | PEAK Lmt dBuV/m | DelLim-PEAK dB | Pol | Hgt cm | Angle deg | Status |
|------------------|----------------|--------------------|-------------------|------|-----------|--------------|--------|
| 88.115000 | 44.50 | 68.00 | -23.50 | Horz | 220 | 235 | PASS |



Average value data

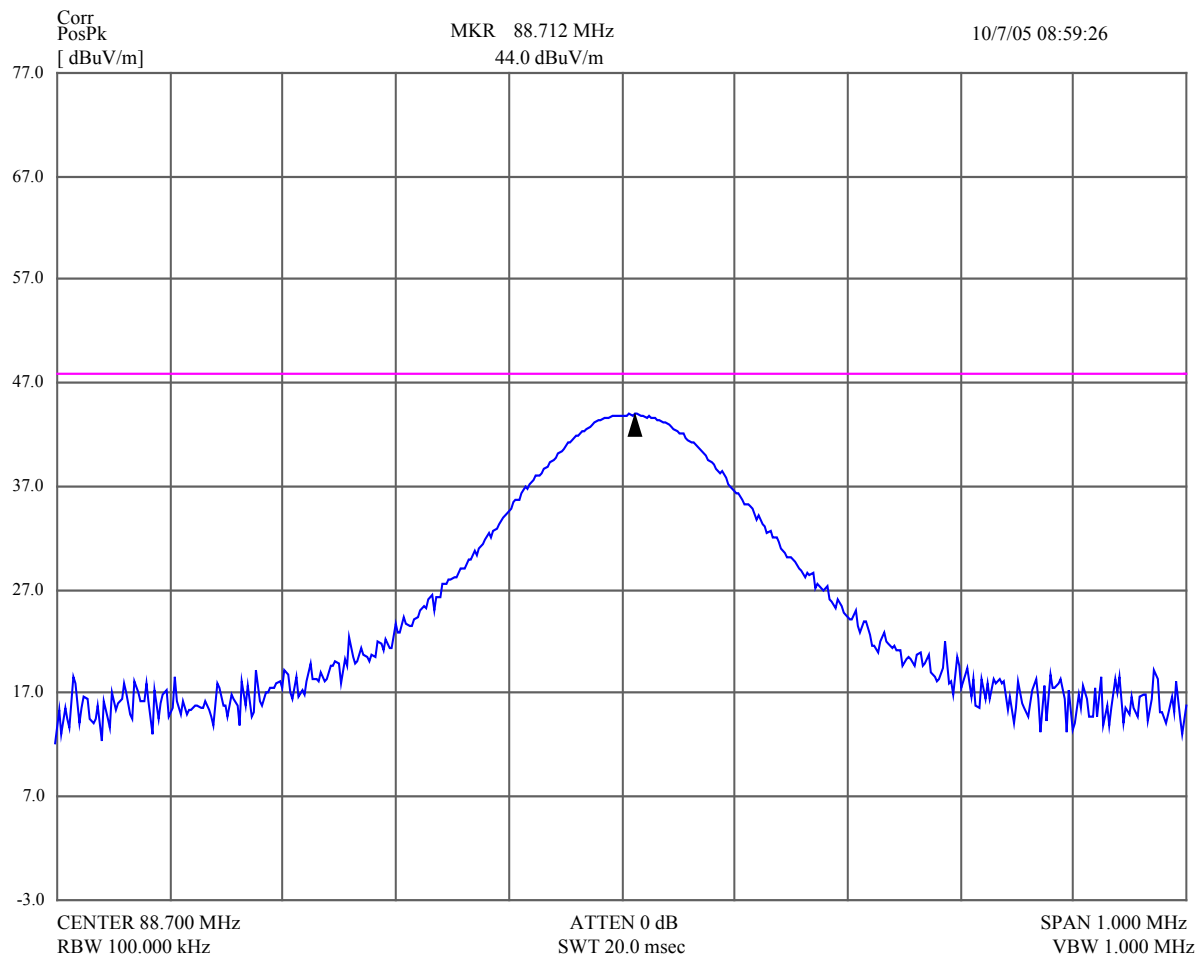
| Frequency MHz | Avg dBuV/m | Avg Lmt dBuV/m | DelLim-Avg dB | Pol | Hgt cm | Angle deg | Status |
|------------------|---------------|-------------------|------------------|------|-----------|--------------|--------|
| 88.073000 | 25.56 | 48.00 | -22.44 | Horz | 197 | 17 | PASS |
| 88.081000 | 24.96 | 48.00 | -23.04 | Horz | 197 | 17 | PASS |
| 88.090000 | 27.74 | 48.00 | -20.26 | Horz | 197 | 17 | PASS |
| 88.103000 | 42.63 | 48.00 | -5.37 | Horz | 197 | 17 | PASS |
| 88.118000 | 37.05 | 48.00 | -10.95 | Horz | 197 | 17 | PASS |
| 88.128000 | 25.06 | 48.00 | -22.94 | Horz | 197 | 17 | PASS |
| 88.136000 | 23.67 | 48.00 | -24.33 | Horz | 197 | 17 | PASS |

Receiver graph of Field Strength of Emissions at 3 m



5.2. Channel 88.7 MHz
5.2.1 no modulation

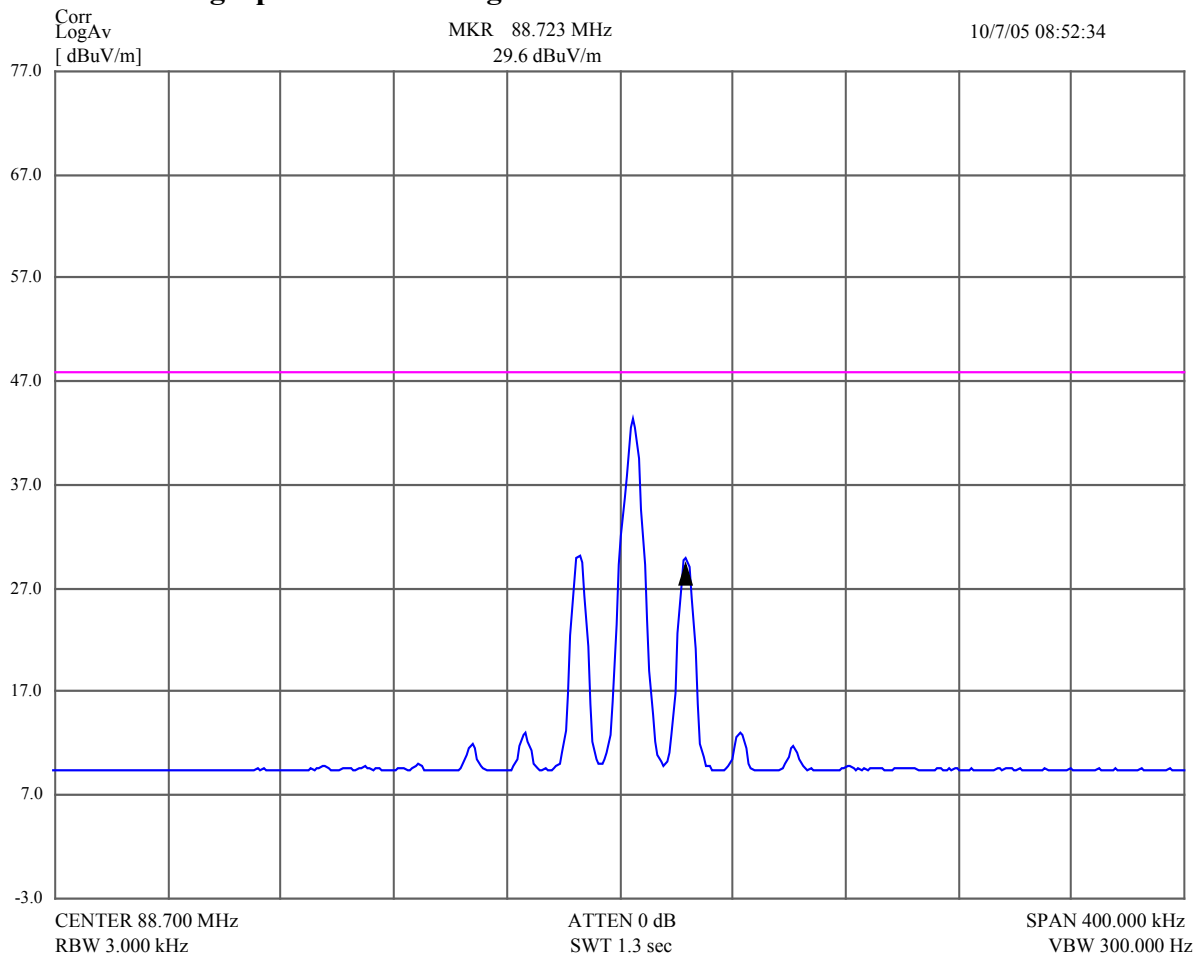
| Peak value data | | | | | | | |
|-----------------|--------|----------|-------------|------|-----|-------|--------|
| Frequency | PEAK | PEAK Lmt | DelLim-PEAK | Pol | Hgt | Angle | Status |
| MHz | dBuV/m | dBuV/m | dB | | cm | deg | |
| 88.712000 | 44.00 | 68.00 | -24.00 | Horz | 271 | 251 | PASS |



Average value data

| Frequency MHz | Avg dBuV/m | Avg Lmt dBuV/m | DelLim-Avg dB | Pol | Hgt cm | Angle deg | Status |
|------------------|---------------|-------------------|------------------|------|-----------|--------------|--------|
| 88.685000 | 29.88 | 48.00 | -18.12 | Horz | 218 | 20 | PASS |
| 88.705000 | 43.22 | 48.00 | -4.78 | Horz | 218 | 20 | PASS |
| 88.723000 | 29.61 | 48.00 | -18.39 | Horz | 218 | 20 | PASS |

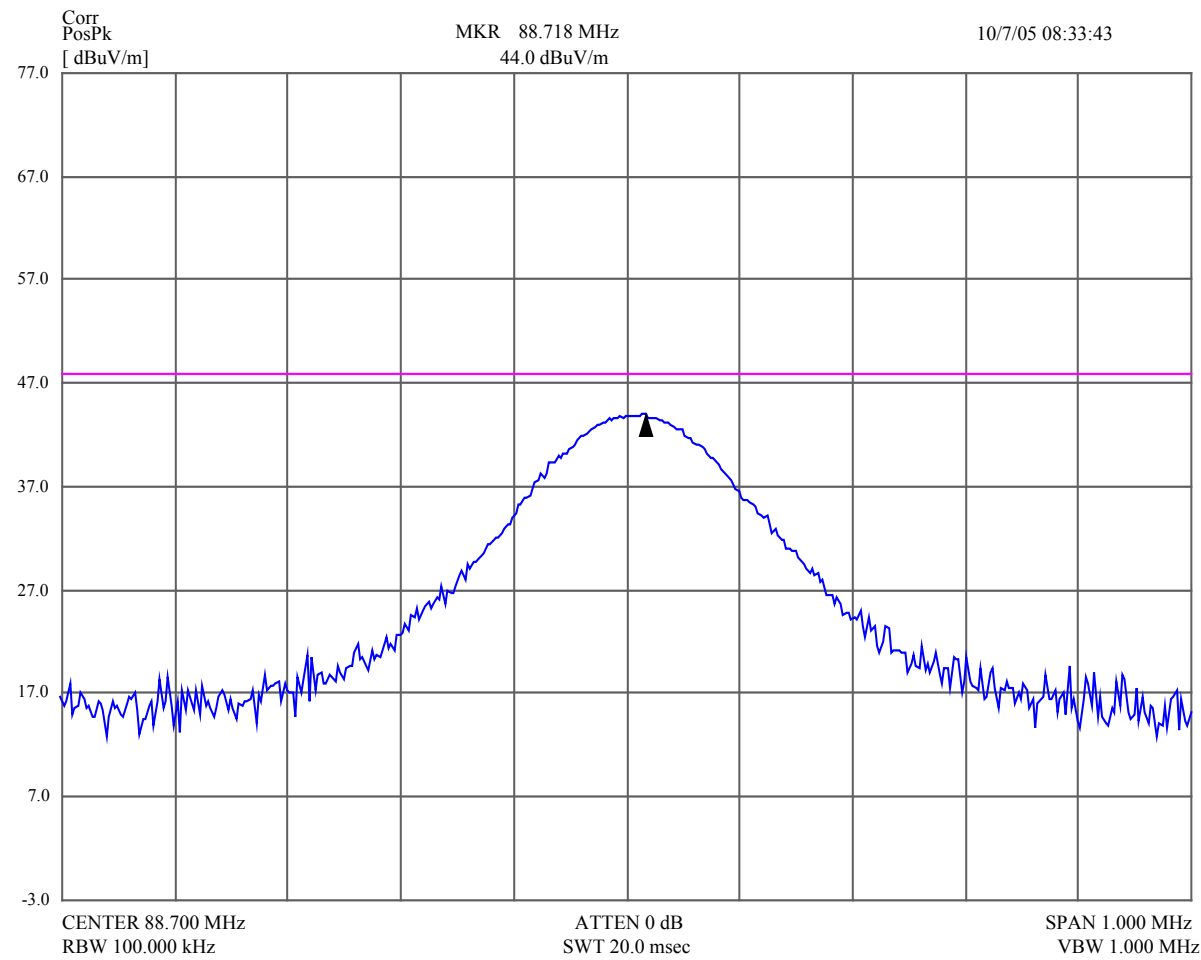
Receiver graph of Field Strength of Emission at 3 m



5.2.2 with modulation

Peak value data

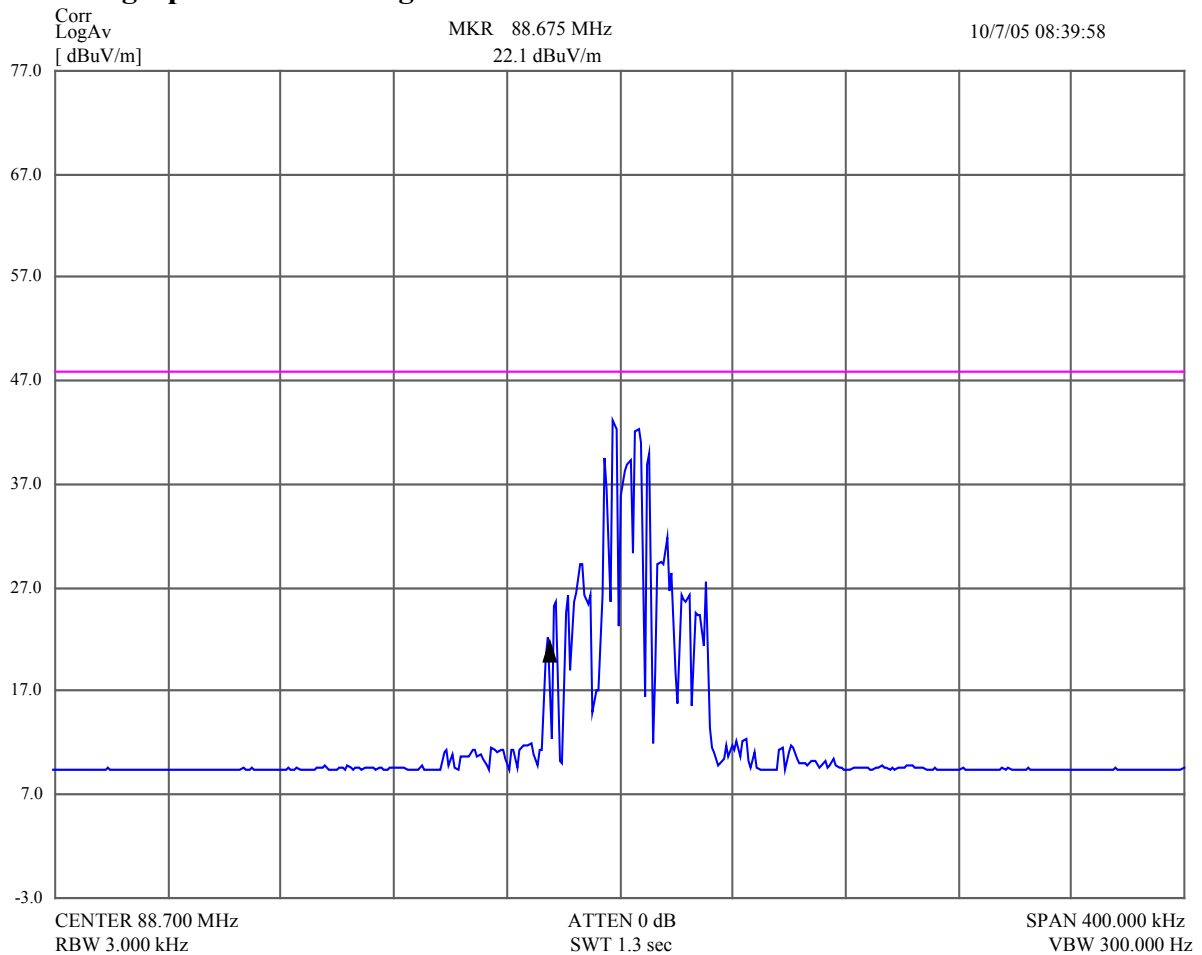
| Frequency | PEAK | PEAK Lmt | DelLim-PEAK | Pol | Hgt | Angle | Status |
|-----------|--------|----------|-------------|------|-----|-------|--------|
| MHz | dBuV/m | dBuV/m | dB | | cm | deg | |
| 88.718000 | 44.00 | 68.00 | -24.00 | Horz | 271 | 251 | PASS |



Average value data

| Frequency MHz | Avg dBuV/m | Avg Lmt dBuV/m | DelLim-Avg dB | Pol | Hgt cm | Angle deg | Status |
|------------------|---------------|-------------------|------------------|------|-----------|--------------|--------|
| 88.677000 | 25.12 | 48.00 | -22.88 | Horz | 218 | 20 | PASS |
| 88.686000 | 29.22 | 48.00 | -18.78 | Horz | 218 | 20 | PASS |
| 88.698000 | 43.07 | 48.00 | -4.93 | Horz | 218 | 20 | PASS |
| 88.707000 | 42.24 | 48.00 | -5.76 | Horz | 218 | 20 | PASS |
| 88.717000 | 31.67 | 48.00 | -16.33 | Horz | 218 | 20 | PASS |
| 88.731000 | 27.49 | 48.00 | -20.51 | Horz | 218 | 20 | PASS |

Receiver graph of Field Strength of Emissions at 3 m

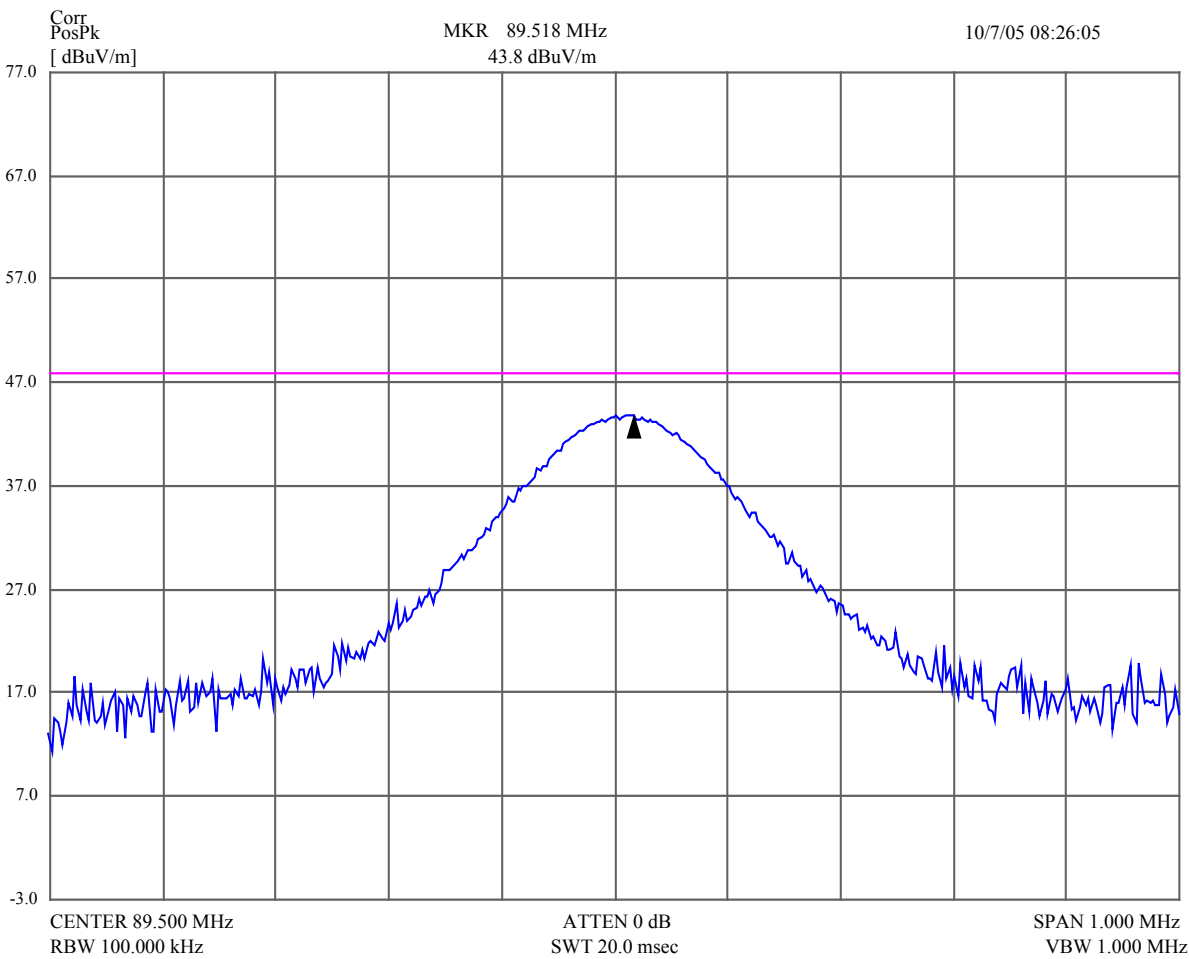


5.3. Channel 89.5 MHz

5.3.1 no modulation

Peak value data

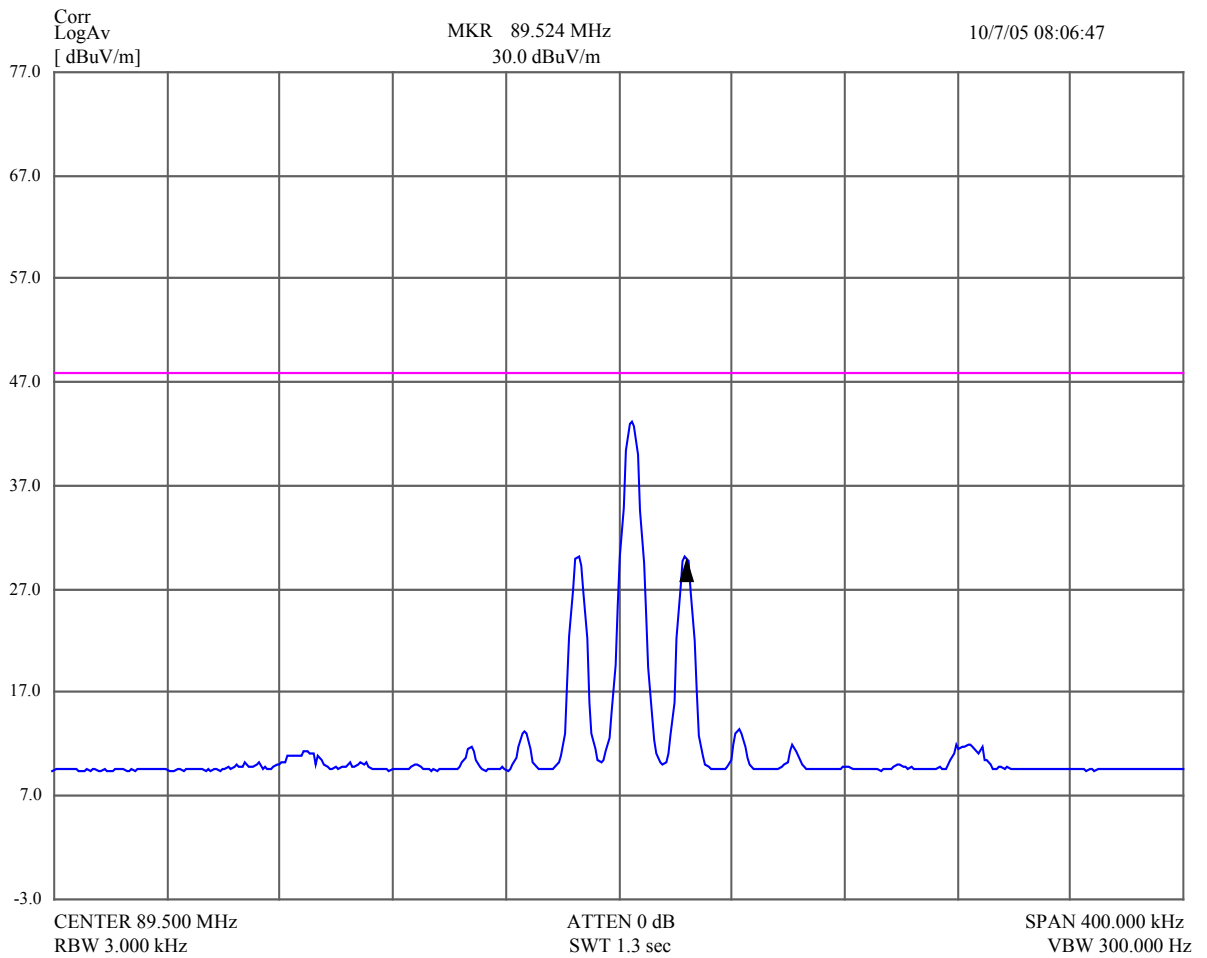
| Frequency MHz | PEAK dBuV/m | PEAK Lmt dBuV/m | Dellim-PEAK dB | Pol | Hgt cm | Angle deg | Status |
|------------------|----------------|--------------------|-------------------|------|-----------|--------------|--------|
| 89.518000 | 43.80 | 68.00 | -24.20 | Horz | 290 | 234 | PASS |



Average value data

| Frequency MHz | Avg dBuV/m | Avg Lmt dBuV/m | Dellim-Avg dB | Pol | Hgt cm | Angle deg | Status |
|------------------|---------------|-------------------|------------------|------|-----------|--------------|--------|
| 89.486000 | 30.08 | 48.00 | -17.92 | Horz | 201 | 18 | PASS |
| 89.505000 | 43.04 | 48.00 | -4.96 | Horz | 201 | 18 | PASS |
| 89.524000 | 30.03 | 48.00 | -17.97 | Horz | 201 | 18 | PASS |

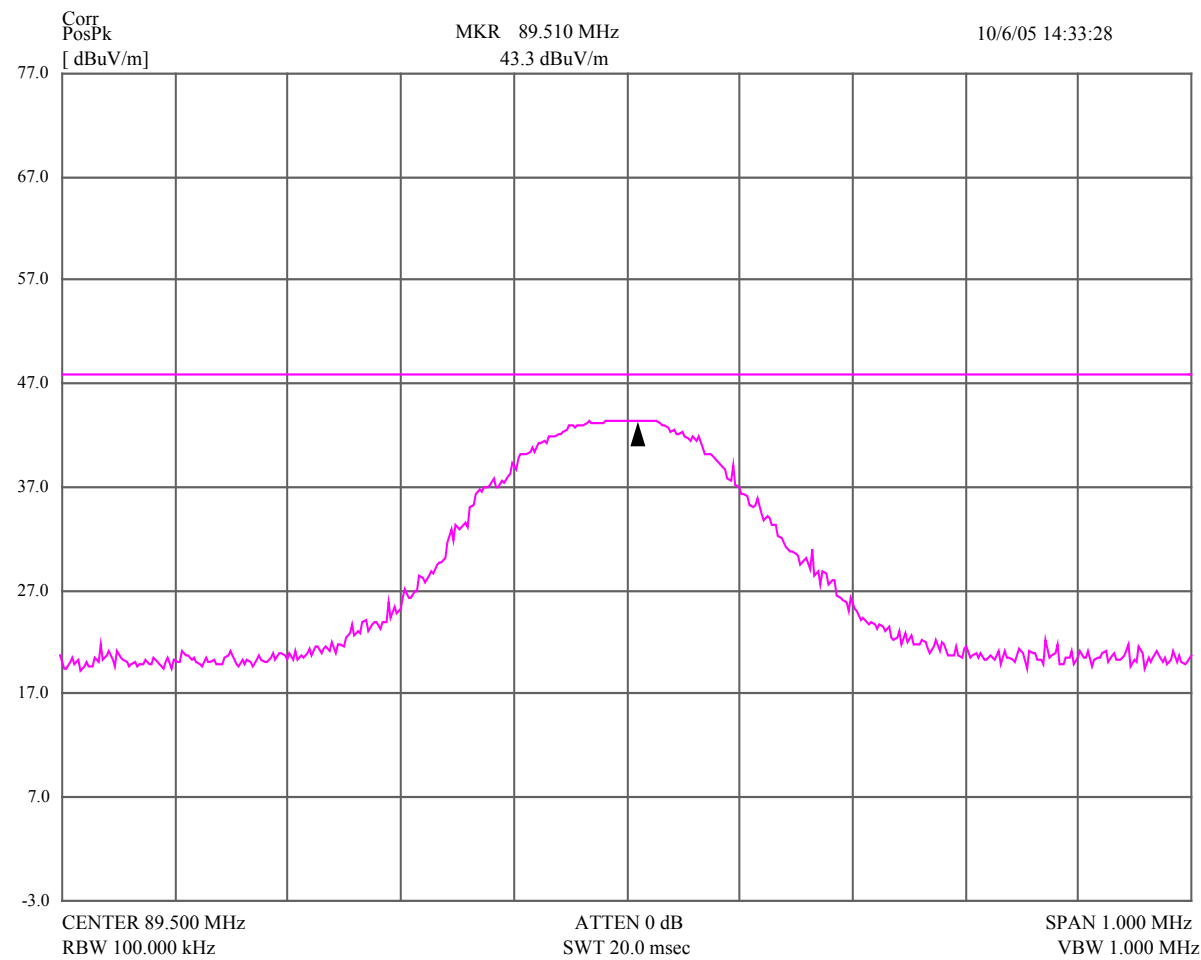
Receiver graph of Field Strength of Emissions at 3 m



5.3.2 with modulation

Peak value data

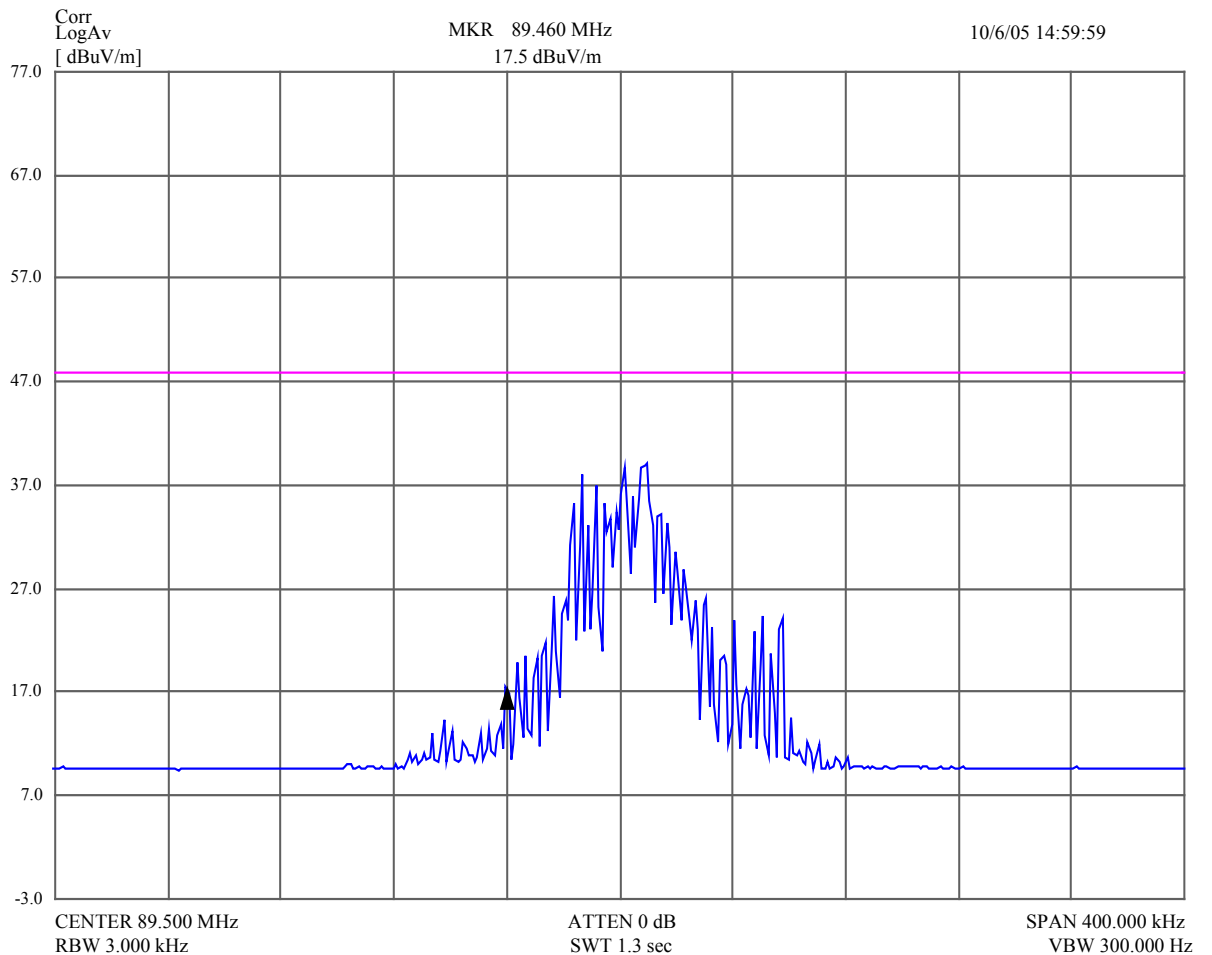
| Frequency MHz | PEAK dBuV/m | PEAK Lmt dBuV/m | Dellim-PEAK dB | Pol | Hgt cm | Angle deg | Status |
|------------------|----------------|--------------------|-------------------|------|-----------|--------------|--------|
| 89.510000 | 43.30 | 68.00 | -24.70 | Horz | 290 | 234 | PASS |



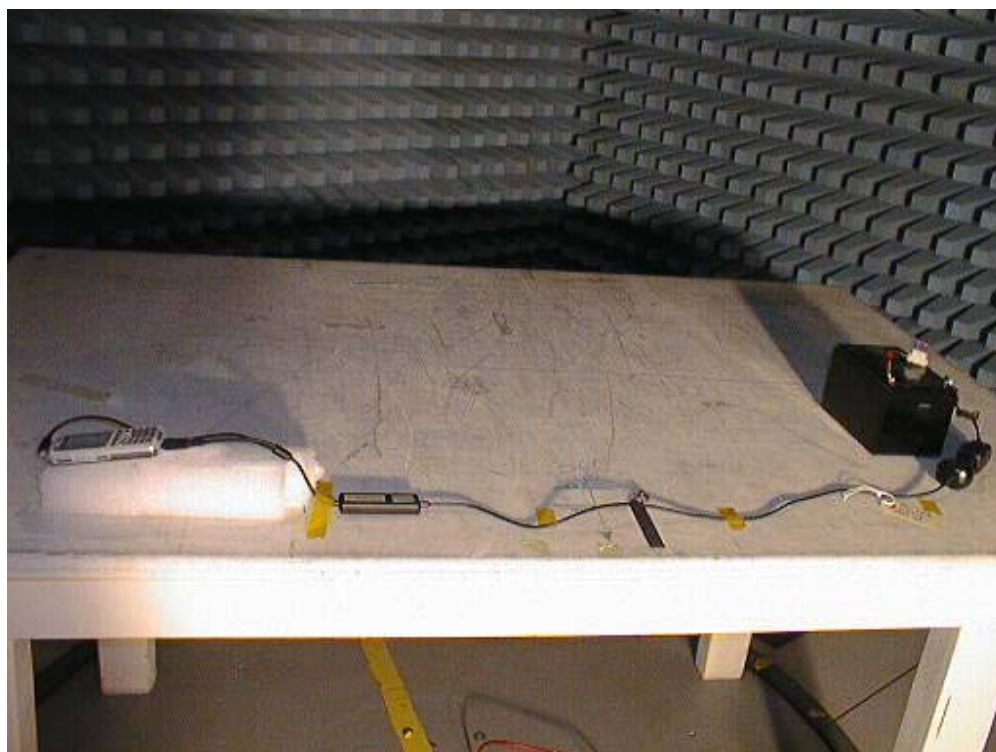
Average value data

| Frequency MHz | Avg dBuV/m | Avg Lmt dBuV/m | DelLim-Avg dB | Pol | Hgt cm | Angle deg | Status |
|------------------|---------------|-------------------|------------------|------|-----------|--------------|--------|
| 89.467000 | 20.44 | 48.00 | -27.56 | Horz | 223 | 18 | PASS |
| 89.484000 | 35.27 | 48.00 | -12.73 | Horz | 223 | 18 | PASS |
| 89.492000 | 36.90 | 48.00 | -11.10 | Horz | 223 | 18 | PASS |
| 89.502000 | 38.58 | 48.00 | -9.42 | Horz | 223 | 18 | PASS |
| 89.510000 | 39.03 | 48.00 | -8.97 | Horz | 223 | 18 | PASS |
| 89.520000 | 30.42 | 48.00 | -17.58 | Horz | 223 | 18 | PASS |
| 89.530000 | 25.36 | 48.00 | -22.64 | Horz | 223 | 18 | PASS |
| 89.541000 | 23.81 | 48.00 | -24.19 | Horz | 223 | 18 | PASS |
| 89.551000 | 24.31 | 48.00 | -23.69 | Horz | 223 | 18 | PASS |

Receiver graph of Field Strength of Emissions at 3 m



5.4 Photographs of Test Set-Up



6.0 Radiated Emissions.

| | |
|---------------------------|--------------------------------|
| Test Requirements: | FCC Part 15 : Subclause 15.209 |
| Test Method: | ANSI C63.4: 2003 |
| Limit : | FCC Part 15 : Subclause 15.209 |
| Mode of operation: | normal |

The test facility consists of a shielded semi-anechoic chamber with attached shielded control room. The semi-anechoic chamber is approximately 18 feet wide by 28 feet long by 19 feet high. A hybrid absorber combines high performance anechoic polyurethane foam with a ferrite tile base to achieve high levels of absorption and power dissipation capability.

The EUT had been placed at the 0.8 m height on the non-conducting table. Transmitter had been turned ON without modulation and worked at the frequencies of the selected channels.

All data was obtained via a HP 85876A EMI measurement software package using an HP 85462A Receiver which is compliant to CISPR 16. The EUT was configured in various geometric patterns to find the geometric configuration and EUT attitude that produced the largest RF power.

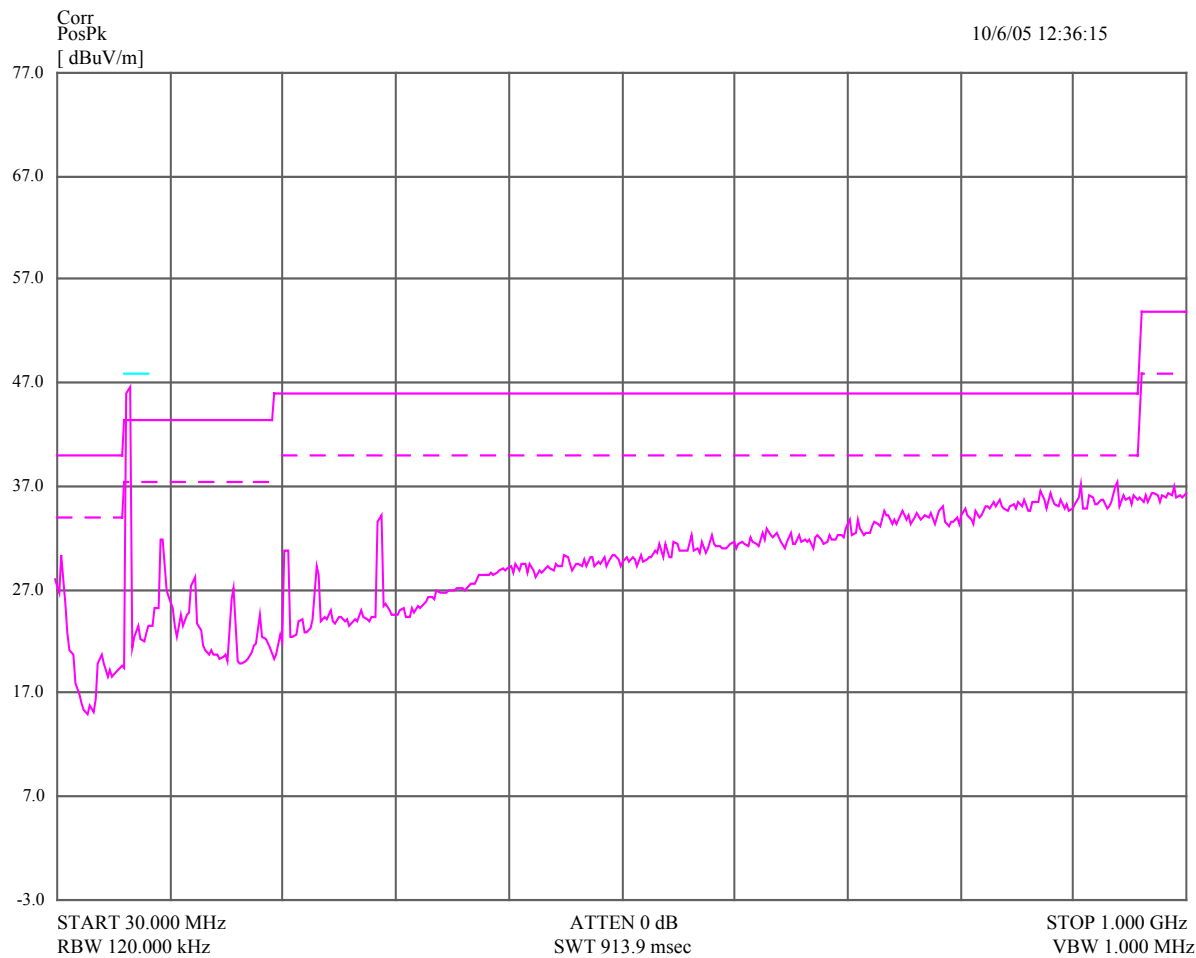
After determination of the maximum emissions configuration the distance of the EUT to the scanning antenna was set to 3 meters.

At each of three selected channels 88.1 MHz, 88.7MHz, and 89.5 MHz Radiated Emissions had been measured.

6.1. Channel 88.1 MHz

| Frequency MHz | QP dBuV/m | QP Lmt dBuV/m | DelLim-QP dB | Pol | Hgt cm | Angle deg | Status |
|------------------|--------------|------------------|-----------------|------|-----------|--------------|--------|
| 33.118000 | 29.19 | 40.00 | -10.81 | Horz | 201 | 302 | PASS |
| 116.346248 | 29.34 | 43.50 | -14.16 | Horz | 206 | 304 | PASS |
| 221.001744 | 29.67 | 46.00 | -16.33 | Horz | 149 | 133 | PASS |
| 300.707488 | 30.46 | 46.00 | -15.54 | Horz | 216 | 133 | PASS |

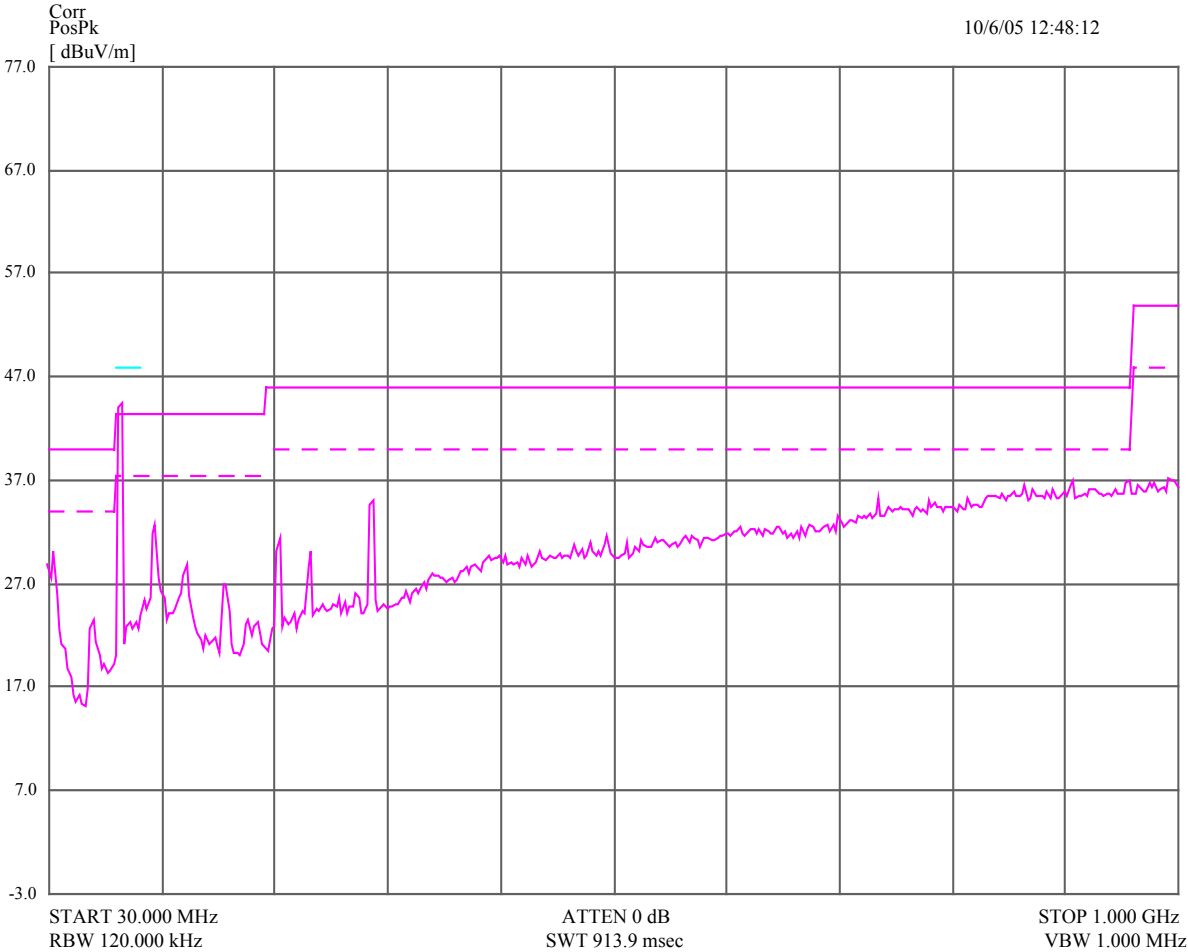
Receiver graph of Radiated Emissions at 3 m



6.2. Channel 88.7 MHz

| Frequency MHz | QP dBuV/m | QP Lmt dBuV/m | DelLim-QP dB | Pol | Hgt cm | Angle deg | Status |
|------------------|--------------|------------------|-----------------|------|-----------|--------------|--------|
| 33.106750 | 29.34 | 40.00 | -10.66 | Horz | 230 | 288 | PASS |
| 116.333000 | 29.94 | 43.50 | -13.56 | Horz | 140 | 60 | PASS |
| 220.996256 | 29.53 | 46.00 | -16.47 | Horz | 149 | 314 | PASS |
| 300.693760 | 31.65 | 46.00 | -14.35 | Horz | 216 | 72 | PASS |

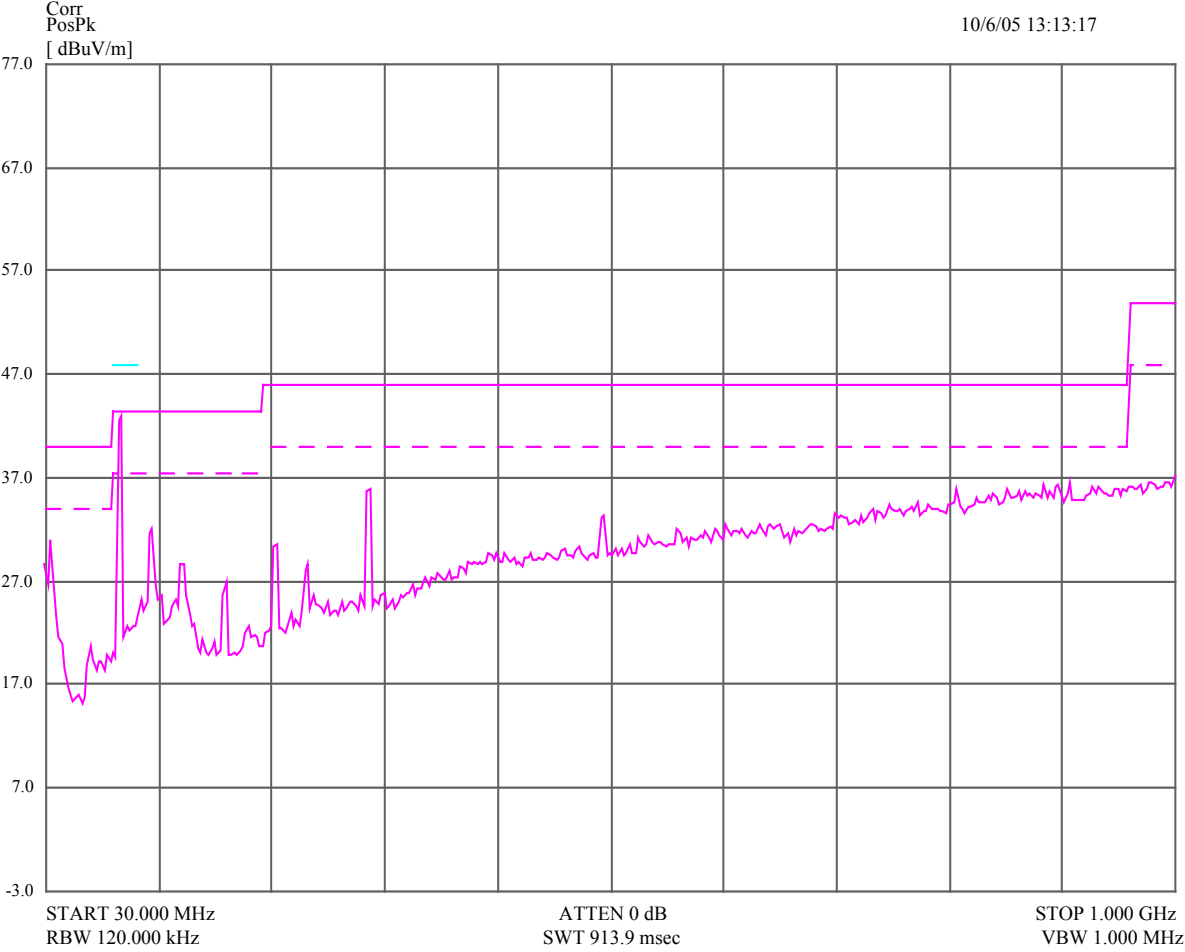
Receiver graph of Radiated Emissions at 3 m



6.3. Channel 89.5 MHz

| Frequency MHz | QP dBuV/m | QP Lmt dBuV/m | DelLim-QP dB | Pol | Hgt cm | Angle deg | Status |
|------------------|--------------|------------------|-----------------|------|-----------|--------------|--------|
| 33.107250 | 29.59 | 40.00 | -10.41 | Horz | 166 | 317 | PASS |
| 116.331248 | 30.05 | 43.50 | -13.45 | Horz | 166 | 45 | PASS |
| 220.993744 | 29.49 | 46.00 | -16.51 | Horz | 162 | 310 | PASS |
| 300.692512 | 32.17 | 46.00 | -13.83 | Horz | 162 | 8 | PASS |
| 501.161248 | 27.94 | 46.00 | -18.06 | Horz | 95 | 343 | PASS |

Receiver graph of Radiated Emissions at 3 m



6.4 Photographs of Test Set-Up



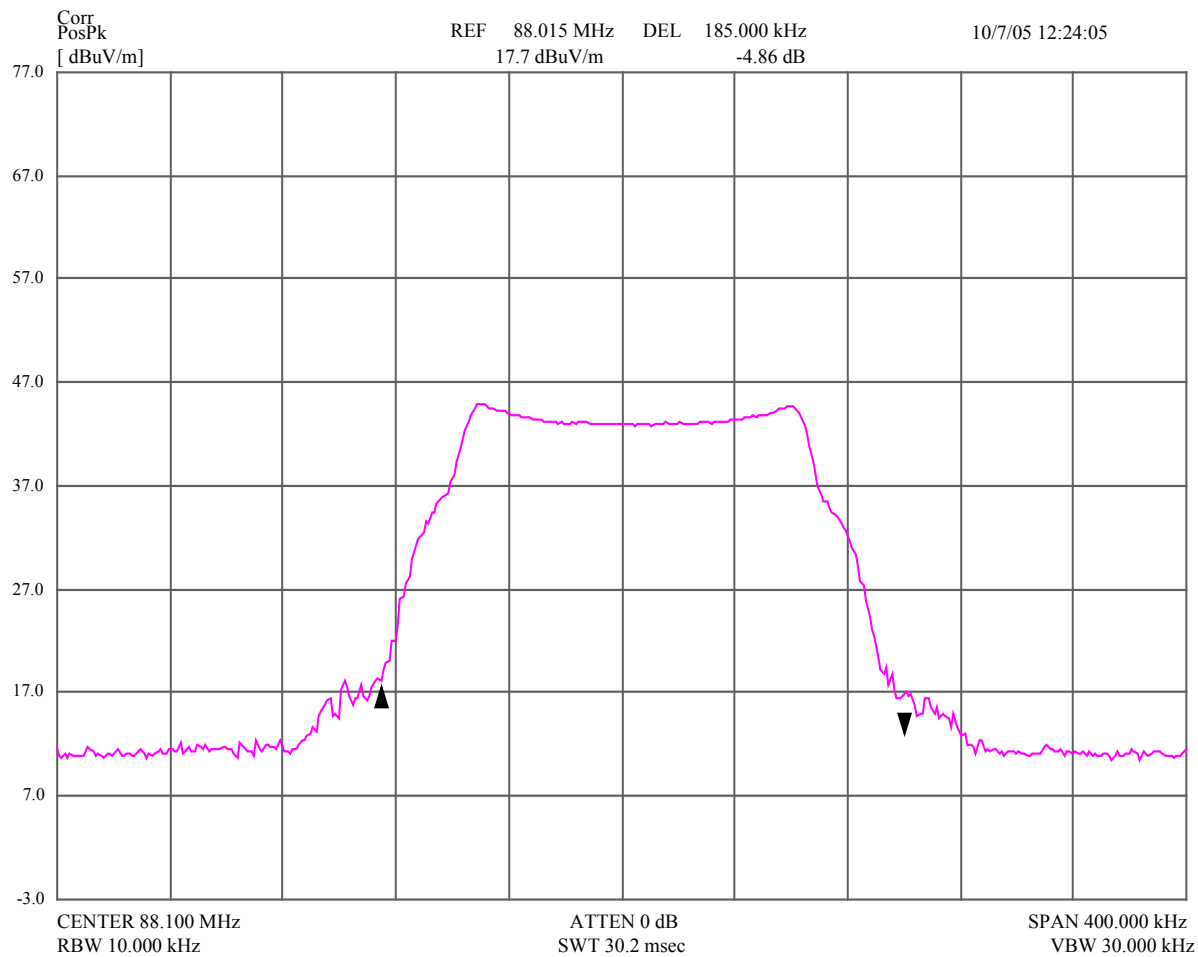
7.0 Occupied channel bandwidth

| | |
|---------------------------|-------------------------------------|
| Test Requirements: | FCC Part 15 : Subclause 15.239 |
| Test Method: | ANSI C63.4: 2003 |
| | FCC Part 2 : Subclause 2.1049 © (1) |
| Limit : | 200 kHz |

The channel Bandwidth (BW) is defined as the minimum declared bandwidth within which the transmitter's necessary bandwidth can be contained.

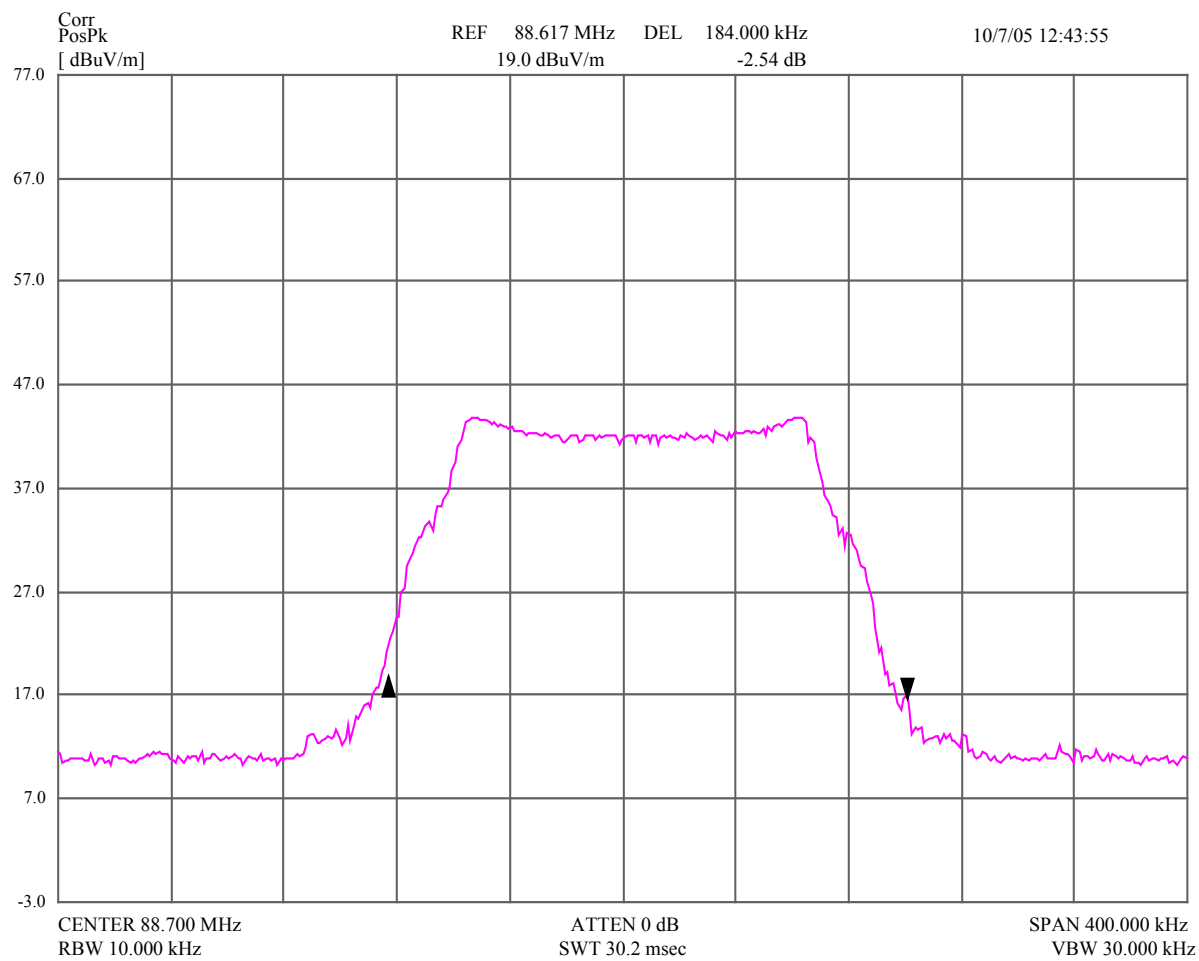
1. The Transmitter was adjusted to work at the selected channels –88.1 MHz, 88.7 MHz and 89.5 MHz. All measurements were conducted by the HP 85462A Spectrum Analyzer;
2. The test Signal generator HP651B was connected to the audio input of the EUT. The fundamental frequency is modulated by 1.00 kHz sinewave with input level equals to the limiting threshold 336mV p-p.
3. The Channel BW was measured at an amplitude level reduced from the reference level by the 26 dB. :

7.1. Channel 88.1 MHz



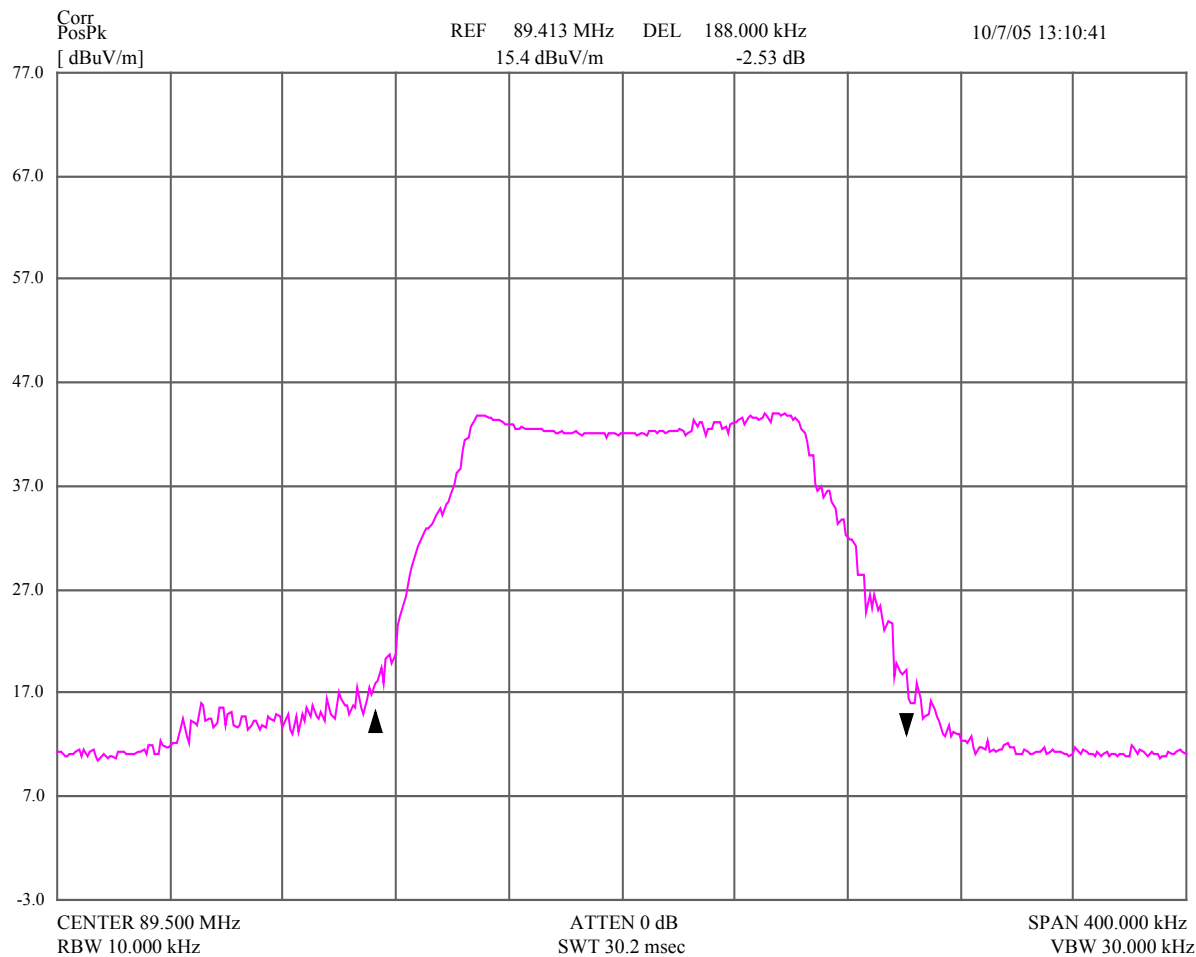
The plot shows the 26 dB bandwidth equals 185 kHz

7.2. Channel 88.7 MHz



The plot shows the 26 dB bandwidth equals 184 kHz

7.3. Channel 89.5 MHz



The plot shows the 26 dB bandwidth equals 188 kHz

7.4 Photographs of Test Set-Up

