

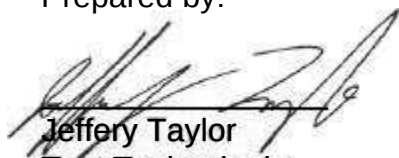
**EMI TEST REPORT
FOR
E-Zone Networks Inc.
E-9000 Tower with Version 2 Transmitter
TO DETERMINE COMPLIANCE WITH
FCC Part 15 Subpart C**

PROJECT NO. 308A08

TEST COMPLETED: 23 April, 1999

Client: E-Zone Networks Inc.
Don La Font
520 - 5 Avenue SW
Calgary, Alberta
T2P 3R7

Prepared by:


Jeffery Taylor
Test Technologist
EMI/EMC

Approved by:

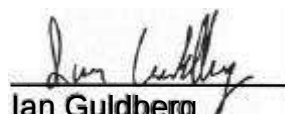

Ian Guldberg
Test Technologist
EMI/EMC

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1.0 SUMMARY

The E-9000 Tower with Version 2 Transmitter, produced by E-Zone Networks Inc., **PASSED FCC Part 15 Subpart C under the provisions of 15.249**, radiated and conducted emissions in the configuration listed in this report on 23 April, 1999.

The results reported herein relate only to the item tested. This report shall not be reproduced, except in full, without the written approval of the Electronics Test Centre. Unless otherwise noted, the measurement uncertainty of the reported results is consistent with the requirements of the standard being evaluated.

2.0 INTRODUCTION

2.1 Scope

The purpose of this report is to present the findings and results of compliance testing performed against the electromagnetic compatibility and interference specifications, standards and requirements set forth in FCC part 15.

2.2 Applicant

The E-9000 Tower with Version 2 Transmitter (EUT) is manufactured by:

E-Zone Networks Inc.
520 - 5 Avenue SW
Calgary, Alberta
T2P 3R7

2.3 Applicability

All test procedures, limits, and results defined in this document apply to the E-Zone Networks Inc.'s E-9000 Tower with Version 2 Transmitter.

The results contained in this report relate only to the item(s) tested.

2.4 Test Sample Description

The test sample, provided for testing by E-Zone Networks Inc., was a E-9000 Tower with Version 2 Transmitter.

The E-9000 Tower with Version 2 Transmitter was a is an all inclusive entertainment system for use with wireless headsets. The 9000 Tower with Version 2 Transmitter operates in the 902 - 928 MHz ISM band. The 9000 Tower with Version 2 Transmitter was tested while transmitting at the lowest possible operating frequency (902.2 MHz), the middle frequency (915 MHz), and the highest possible operating frequency (927.8 MHz) (Conducted measurements were only tested with the transmitter at 915 MHz.). The transmitted signal was modulated with a 1 kHz tone and a 19 kHz tone using FM MPX modulation. The E-9000 Tower with Version 2 Transmitter had a video signal applied to the Video In port throughout the test.

The E-9000 Tower with Version 2 Transmitter was powered from the AC mains and was grounded to the AC mains.

<Other descriptions such as connections, manufacturer, and usage are to be included in parts lists and manuals.>

3.0 DETAILS OF FCC PART 15 SUBPART C

3.1 Conducted Emissions (450 kHz - 30 MHz)

Frequency of emission (MHz)	Class B Conducted limit (dB μ V)
0.45 to 1.705	47.95
1.705 to 30.0	47.95

3.2 Radiated Emissions (30 MHz - 10 GHz)

Frequency of emission (MHz)	Class B Field strength (dB μ V/m) (at 3 m)
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960	54.0

3.3 Provisions Specified By 15.249

FUNDAMENTAL FREQUENCY	FIELD STRENGTH OF FUNDAMENTAL (dB m V/m)	FIELD STRENGTH OF HARMONICS (dB m V/m)
902-928 MHz	93.98	53.98
2400-2483.5 MHz	93.98	53.98
5725-5875 MHz	93.98	53.98
24.0-24.25 GHz	107.96	67.96

4.0 TEST FACILITY

4.1 Test Sites

Tests were performed at the Electronics Test Centre:

Street address:
27 East Lake Hill
Airdrie, Alberta
T4B 2B7

Mailing Address:
P.O. Box 3485
Airdrie, Alberta
T4B 2B7

Tel: (403) 912-0037
Fax: (403) 912-0083

RF Anaechoic Chamber

References to the RF Anechoic Chamber (RFAC) identify the test chamber located in the main building complex at the Electronics Test Centre. Its usable working space measures 8 m long x 4.9 m wide x 5.2 m high. The floor, walls and ceiling consist of annealed steel panels. The walls and ceiling are covered with 122 cm long pyramidal cones made of anechoic material. The floor supports a 15 cm high steel computer floor that acts as a ground plane. Test instrumentation is located in two shielded equipment vestibules located at the side of the main room. Cables are routed through bulkhead panels between the rooms as required. Power feeds are routed into the main room and vestibules through power line filters providing at least 100 dB of attenuation between 10 KHz and 10 GHz.

Open Field Test Site

References to the Open Area Test Site (OATS) identify the open area located on the property of the Electronics Test Centre. It conforms to the requirements of CSA C108.8-M1983 and ANSI C63.4. A metal ground plane and an all weather structure constructed of wood and fiberglass are provided. Fiberglass antenna masts are located 3, 10, and 30 meters from a rotateable wooden turntable. The 30 meter mast is located outside the all weather structure. Test instrumentation is located below the metal ground plane. Antenna cables are routed through conduits buried beneath the ground plane. Power feeds and cables that connect the test sample to auxiliary instrumentation are routed through a hole in the ground plane at the centre of the turntable. Power is provided to the underground facility through filters having at least 100 dB of attenuation between 10 KHz and 10 GHz. Test instrumentation is powered by a line isolation transformer. Calibration of the OATS was performed in accordance with ANSI C63.4. A report has been submitted to the FCC.

4.2 Test Equipment

Equipment Calibration

All measurement instrumentation conforms to ANSI C63.2. Calibration is maintained in accordance with manufacturer recommendations, NATO AQAP-6, and MIL-STD-45662. Each measurement device is labeled with its ETC asset number and calibration due date.

Calibration Accuracy

Test equipment used to provide quantitative measurements are calibrated with standards traceable to the National Research Council, National Institute of Standards and Technology or other national standards. Instrumentation systems for emissions measurements have the following accuracy's:

Frequency: $\pm 2\%$

Amplitude: ± 2 dB

Test Equipment Descriptions

Instrument	Manufacturer	Model No.	Asset No.	Calibration Status
Spectrum Analyzer	Hewlett Packard	8566B	9565	Annual Calibration
Spectrum Analyzer	Hewlett Packard	8566B	9168	Annual Calibration

Measurement Range: 100 Hz To 22 GHz

Resolution Bandwidth: 3 dB bandwidths of 10 Hz to 3 MHz in a 1, 3, 10 sequence.

Amplitude Measurement Range: -134 dBm to + 30 dBm

Dynamic Range Spurious Response: for signals < -40 dBm all harmonic and intermodulation distortion > 70 dBm below input signal.

RF Input: 100 Hz to 22 GHz precision female type N connector.

Input SWR: 1.2, 100 Hz to 2.5 GHz; 1.5, 2.5 GHz to 5.8 GHz; 1.9, 5.8 GHz to 22 GHz with 10 dB input attenuation.

Instrument	Manufacturer	Model No.	Asset No.	Calibration Status
RF Preselector	Hewlett Packard	85685A	9563	Annual Calibration
RF Preselector	Hewlett Packard	85685A	9728	Annual Calibration

Measurement Range: 20 Hz to 2 GHz

Displayed Average Noise Level: -115 dBm, 9 KHZ to 50 KHZ; -132 dBm, 50 KHZ to 1 MHz; -150 dBm, 1 MHz to 1500 MHz; -147 dBm, 1500 MHz to 2000 MHz.

Residual Response: -90 dBm, 2 KHZ to 1 MHz; -112 dBm, 1 MHz to 2000 MHz.

RF Input: 20 Hz to 2 GHz precision female type N connector.

Input SWR: < 1.5

Instrument	Manufacturer	Model No.	Asset No.	Calibration Status
Quasi-Peak Adapter	Hewlett Packard	85650A	9243	Annual Calibration

Amplitude Accuracy: Bypass mode, ± 0.3 dB; normal mode, ± 1.0 dB

Frequency Accuracy in Normal Mode: 200 Hz BW, ± 10 Hz; 9 kHz BW, ± 4.5 kHz; 120 kHz BW, ± 60 kHz.

Instrument	Manufacturer	Model No.	Asset No.	Calibration Status
Line Impedance Stabilization Network	EMCO	3825/2r	9331	Annual Inspection
Line Impedance Stabilization Network	EMCO	3825/2r	9259	Annual Inspection

Isolation Frequency Range: 10 kHz to 100 MHz

Power Source Frequencies: 0 Hz to 400 Hz

Current Rating: 25 amps

The 3825/2r LISN is designed to stabilize test units which operate with two line, single phase power.

Instrument	Manufacturer	Model No.	Asset No.	Calibration Status
Biconal-Log	ARA	Lpb-2520/A	4318	Annual Calibration

Measurement Range: 25 MHz to 2000 MHz

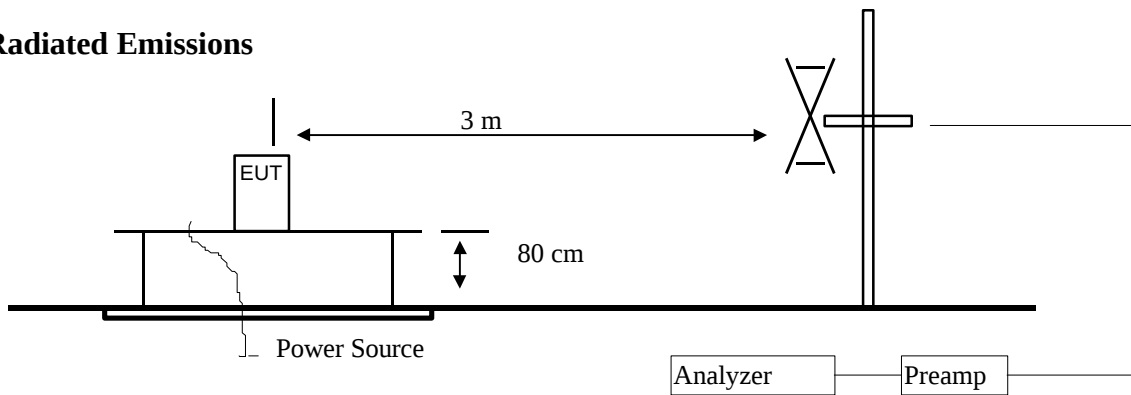
Power Handling Capability: 1000 W

Average VSWR: 2:1

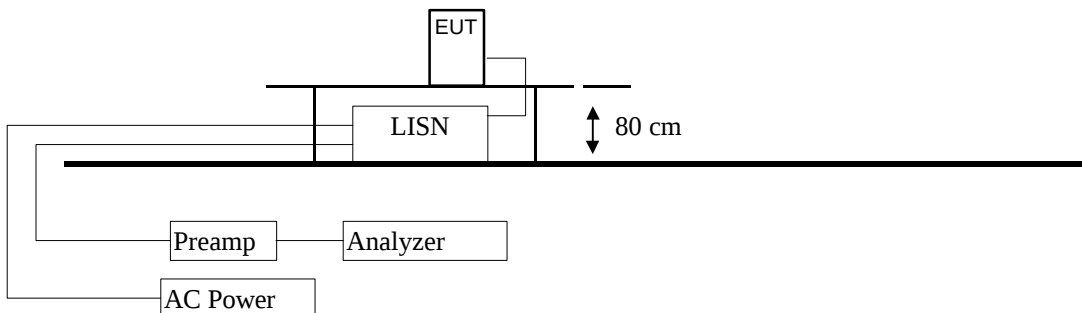
4.3 Test Configuration

The following diagrams illustrate the configuration of the E-9000 Tower with Version 2 Transmitter, and the test and measurement equipment used for FCC part 15 Radiated and Conducted Emissions Testing.

Radiated Emissions



Conducted Emissions



4.4 Measurement Uncertainty

For Radiated E-Field Emissions:

Frequency = $\pm 1 \times 10^{-3}$ MHz
Amplitude = + 3.8 / -3.9 dB (from 30 MHz to 200 MHz)
Amplitude = ± 2.8 dB (from 200 MHz to 1000 MHz)

For Conducted Emissions:

Frequency = $\pm 1 \times 10^{-3}$ MHz
Amplitude = + 3.8 / -3.9 dB (from 30 MHz to 200 MHz)
Amplitude = ± 2.8 dB (from 200 MHz to 1000 MHz)

5.0 LABELING REQUIREMENTS

5.1 Industry Canada Requirements

Industry Canada has labeling requirements for digital apparatus. Section 6.2 of ICES-003 Issue 2 specifies the requirements as follows:

6.2 A written notice indicating compliance must accompany each unit of digital apparatus to the end user. The notice shall be in the form of a label that is affixed to the apparatus. Where because of insufficient space or other restrictions it is not feasible to affix a label to the apparatus, the notice may be in the form of a statement included in the user's manual.

The suggested text for the notice, in English and in French, is as follows. RF causing equipment regulations.

This Class [*] digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe [*] respecte toutes les exigences du règlement sur le matériel brouilleur du Canada.

[*] insert either "a" or "b" but not both as appropriate for the equipment requirements.

5.2 FCC Requirements

The FCC has labeling requirements for computing devices. Section 15.19 of the FCC rules specifies the requirements as follows.

15.19 Labeling Requirements

A. In addition to the requirements in part 2 of this chapter, a device subject to certification, notification or verification shall be labeled as follows:

- Receivers associated with the operation of a licensed radio service, e.g., FM Broadcast under Part 73, Land Mobile Operation under Part 90, etc., Shall bear the following statement in a conspicuous location on the device:
This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.
- A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:
This device is verified to comply with Part 15 of the FCC Rules for use with cable television service.
- All other devices shall bear the following statement in a conspicuous location on the device:
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - 1) This device may not cause harmful interference
 - 2) This device must accept any interference received, including interference that may cause undesired operation.

B. Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified in this section is required to be affixed only to the main control unit.

C. When the device is so small or for such use that it is not practicable to place the statement specified in this section on it, the information required by these paragraphs shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

The FCC has a requirement to provide user information in the equipment manuals of all devices subject to Part 15.

15.21 Information To User

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The Electronics Test Centre recommends that the following statement be placed in a prominent location in the text of the manual.

Note: Equipment changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The FCC has a requirement to provide user information in equipment manuals of computing devices. Section 15.105 of the FCC Rules specifies the requirements as follows.

15.105 Information To The User

- A. For a class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- B. For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Re-Orient Or Relocate The Receiving Antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

- C. The provisions of paragraphs (a) and (b) do not apply to digital devices exempted from the technical standards under the provisions of section 15.103.
- D. For systems incorporating several digital devices, the statement shown in paragraph (a) or (b) needs to be contained only in the instruction manual for the main control unit.

Appendix 1

**Test Result Data Forms
FOR
E-Zone Networks Inc.'s
E-9000 Tower with Version 2 Transmitter
TO DETERMINE COMPLIANCE WITH
FCC Part 15 Subpart C, 15.207, Conducted Emissions**

PROJECT NO. 308A08

TEST COMPLETED: 23 April, 1999

Client: E-Zone Networks Inc.
Don La Font
520 - 5 Avenue SW
Calgary, Alberta
T2P 3R7

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This testing was done using a E-9000 Tower with Version 2 Transmitter.
This Test was done using FCC Part 15 Subpart C, 15.207 specifications.

There were no variations to the test method.

The E-9000 Tower with Version 2 Transmitter produced by E-Zone Networks Inc., **PASSED** FCC Part 15 Subpart C, 15.207, conducted emission in the configuration described in section 2.4.

The Equipment Under Test is considered to have passed if the conducted power does not exceed the limit of the appropriate standard as shown in section 3 of this report.

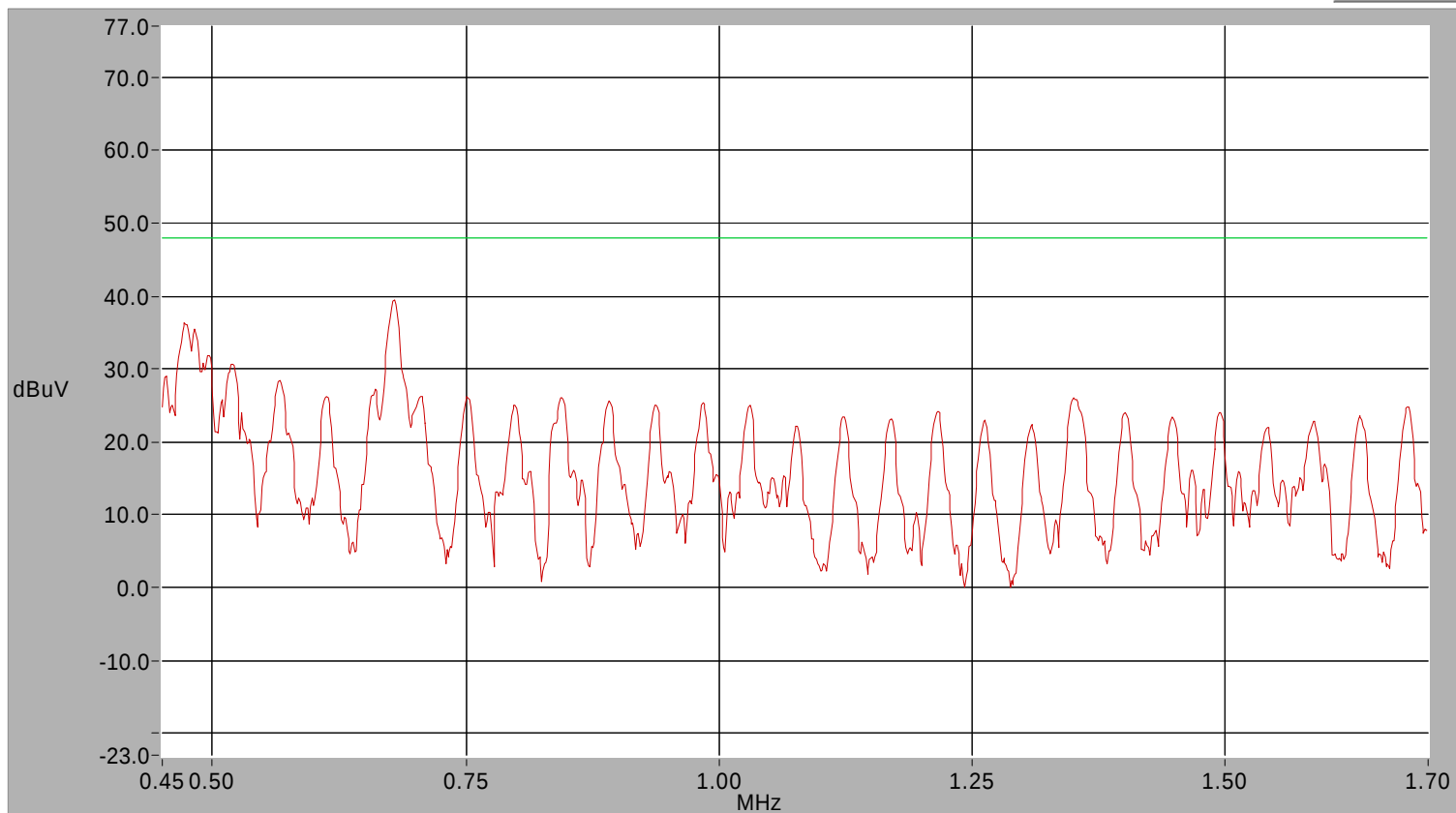
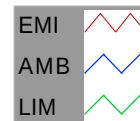
Conducted Emissions **Neutral to Ground** **FCC Part 15 Class B 3m**

Title: 450 - 1700 kHz
Mode of Operation: Normal
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: Kingtech Ferrite

Date & Time: April 23, 1999
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

12:33 PM

Plot Number: 3



VBW: 30.000 kHz
RBW: 100.000 kHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ZERO.DAT 23/4/1997
lisn.dat 23/4/1997
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
0.667	-	-	39.40	0.04	0.00	0.00	39.44	47.95	Pass

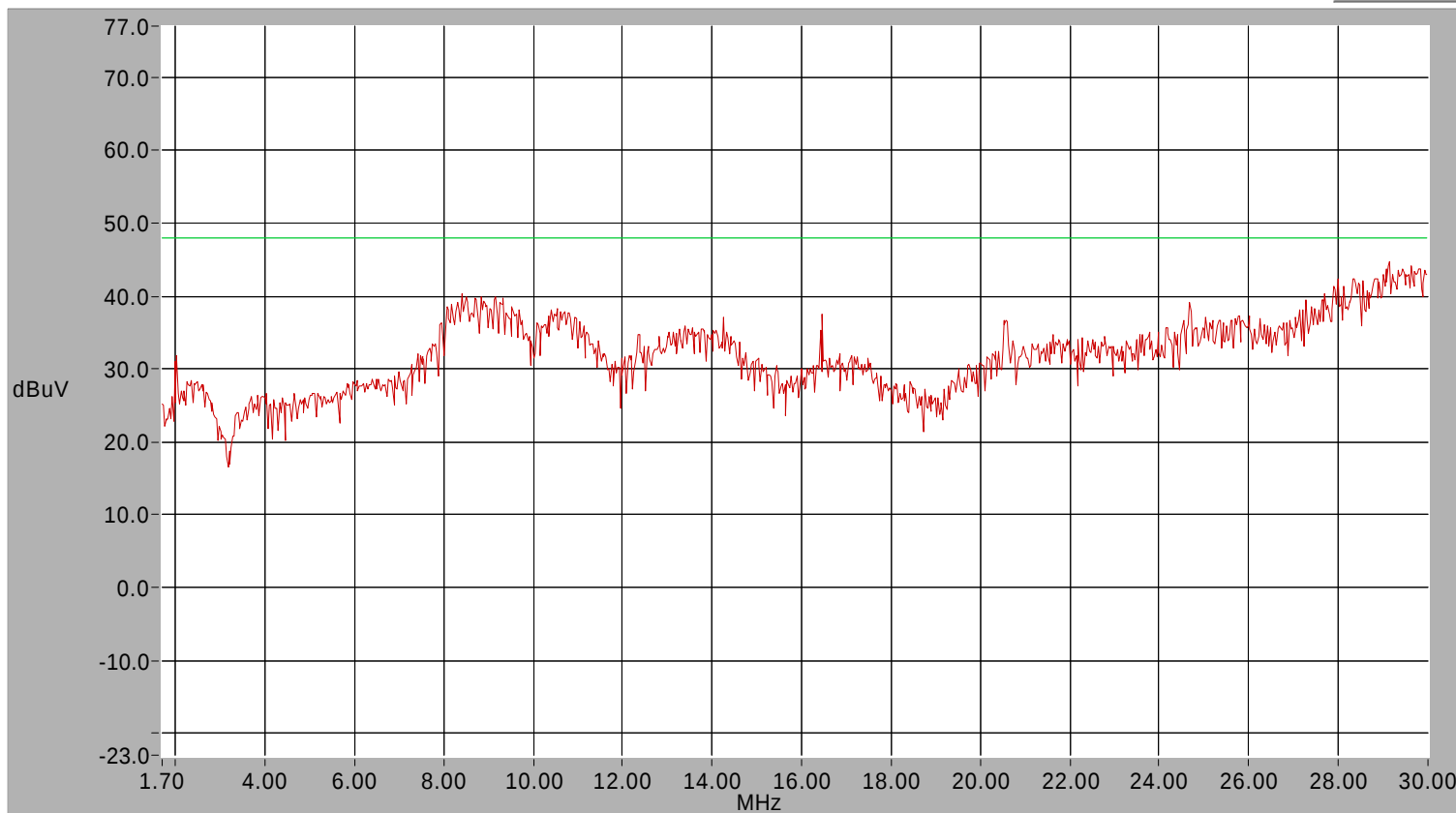
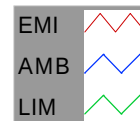
Conducted Emissions Neutral to Ground FCC Part 15 Class B 3m

Title: 1.7 - 30 MHz
Mode of Operation: Normal
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: Kingtech Ferrite

Date & Time: 12:37 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 23, 1999

Plot Number: 4



VBW: 30.000 kHz
RBW: 100.000 kHz

Sweep Time: 240.00 ms
Ref. Lev: 77.00 dBuV

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ZERO.DAT 23/4/1997
lisn.dat 23/4/1997
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
29.384	-	-	31.40	0.04	0.00	0.00	31.44	47.95	Pass

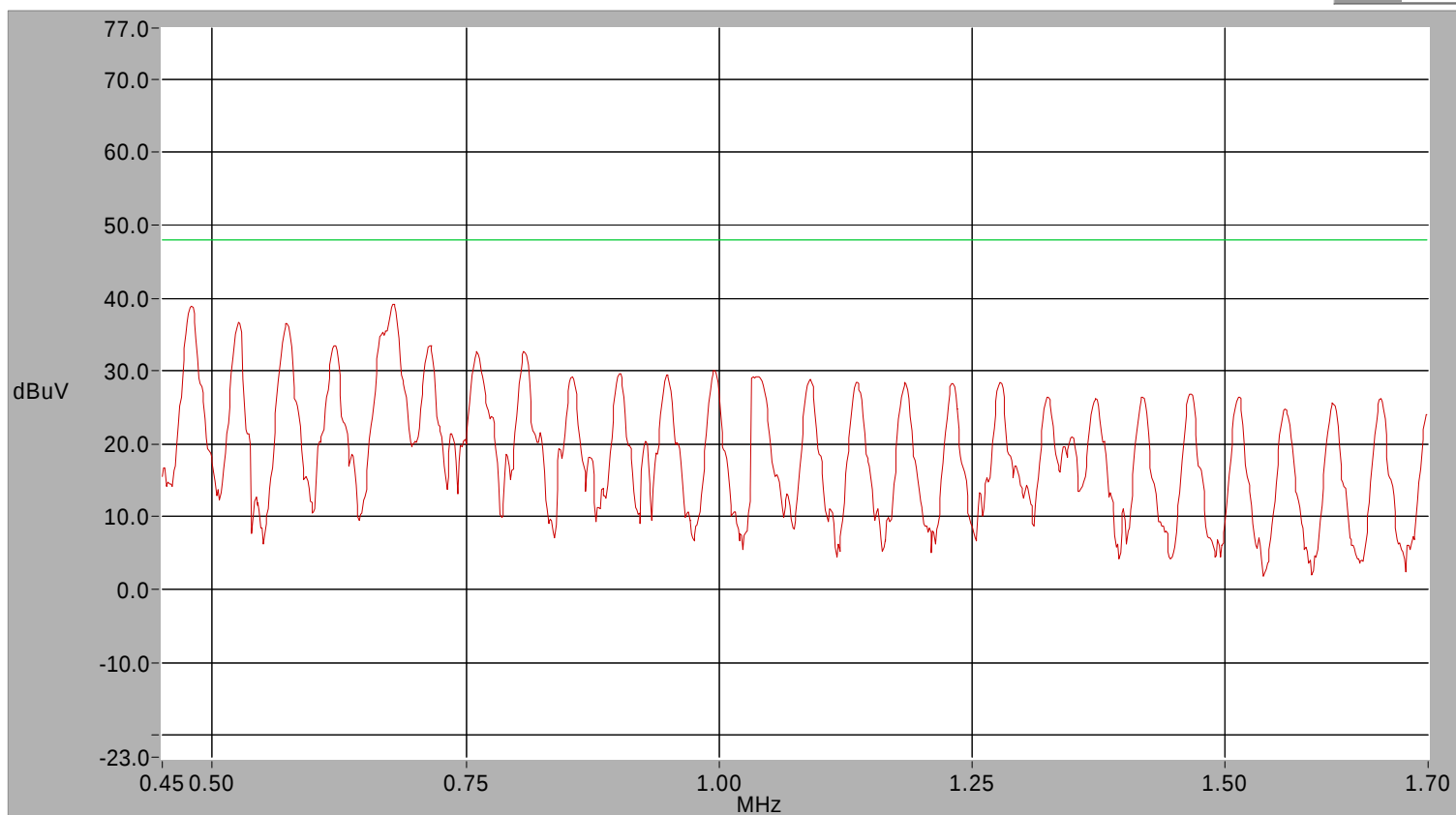
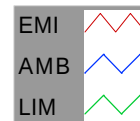
Conducted Emissions
Hot to Ground
FCC Part 15 Class B 3m

Title: 450 - 1700 kHz
Mode of Operation: Normal
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: Kingstech Ferrite

Date & Time: April 23, 1999
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

12:42 PM

Plot Number: 1



VBW: 30.000 kHz
RBW: 100.000 kHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

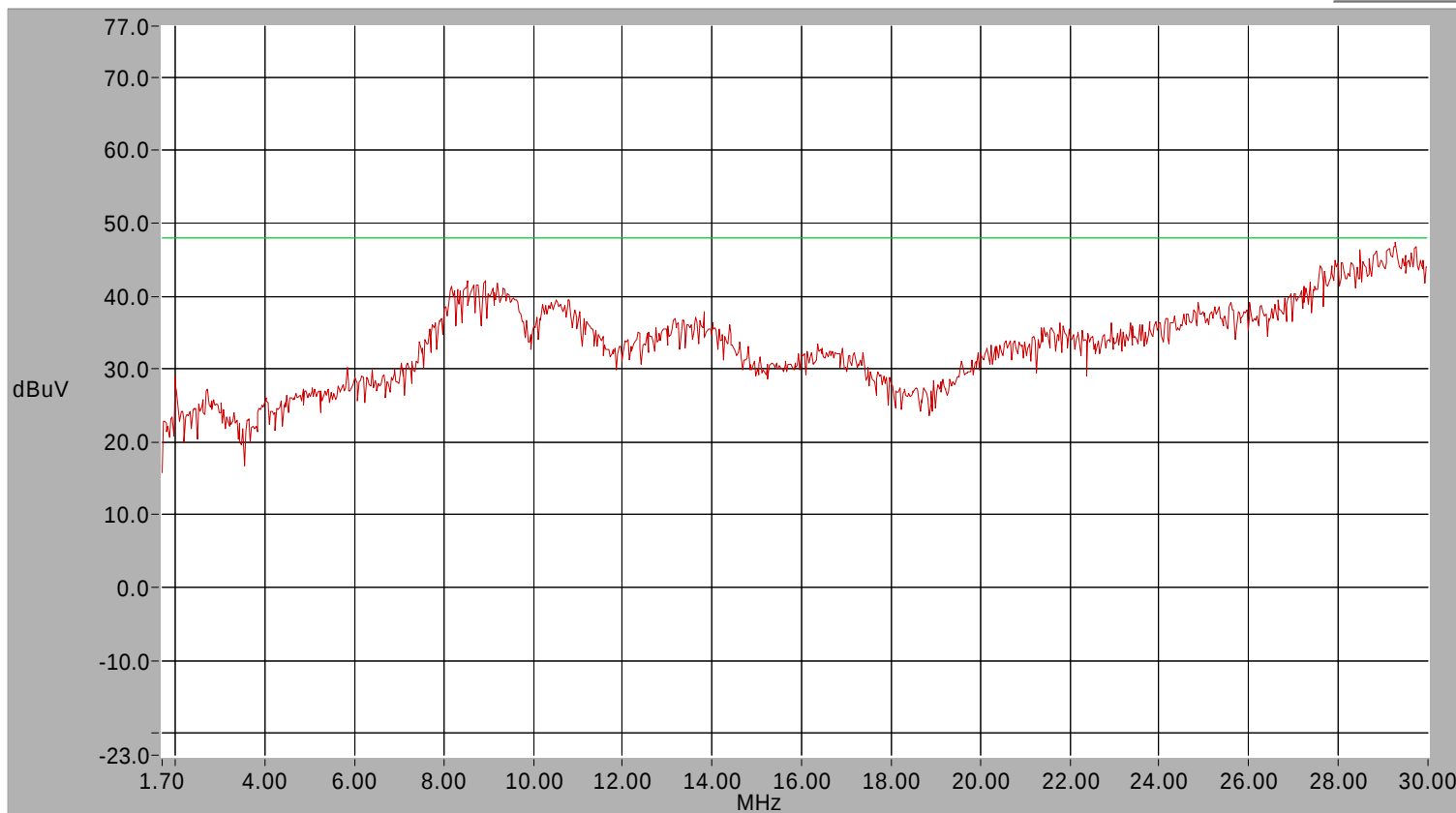
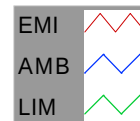
ZERO.DAT 23/4/1997
lisn.dat 23/4/1997
FCC15B3.DAT 20/8/1998

Conducted Emissions **Hot to Ground** **FCC Part 15 Class B 3m**

Title: 1.7 - 30 MHz
Mode of Operation: Normal
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: Kingtech Ferrite

Date & Time: April 23, 1999 12:45 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 2



VBW: 30.000 kHz
RBW: 100.000 kHz

Sweep Time: 240.00 ms
Ref. Lev: 77.00 dBuV

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ZERO.DAT 23/4/1997
lisn.dat 23/4/1997
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
29.008	-	-	40.00	0.04	0.00	0.00	40.04	47.95	Pass

Appendix 2

**Test Result Data Forms
FOR
E-Zone Networks Inc.'s
E-9000 Tower with Version 2 Transmitter
TO DETERMINE COMPLIANCE WITH
FCC Part 15 Subpart C, Radiated Emissions
When Transmitting At 902.2 MHz**

PROJECT NO. 308A08

TEST COMPLETED: 22 April, 1999

Client: E-Zone Networks Inc.
Don La Font
520 - 5 Avenue SW
Calgary, Alberta
T2P 3R7

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Horizontal Band Width	34

This testing was done using a E-9000 Tower with Version 2 Transmitter.
This Test was done using FCC Part 15 Subpart C specifications.

There were no variations to the test method.

The E-9000 Tower with Version 2 Transmitter produced by E-Zone Networks Inc., **PASSED** FCC Part 15 Subpart C radiated emission in the configuration described in section 2.4, while transmitting at 902.2 MHz.

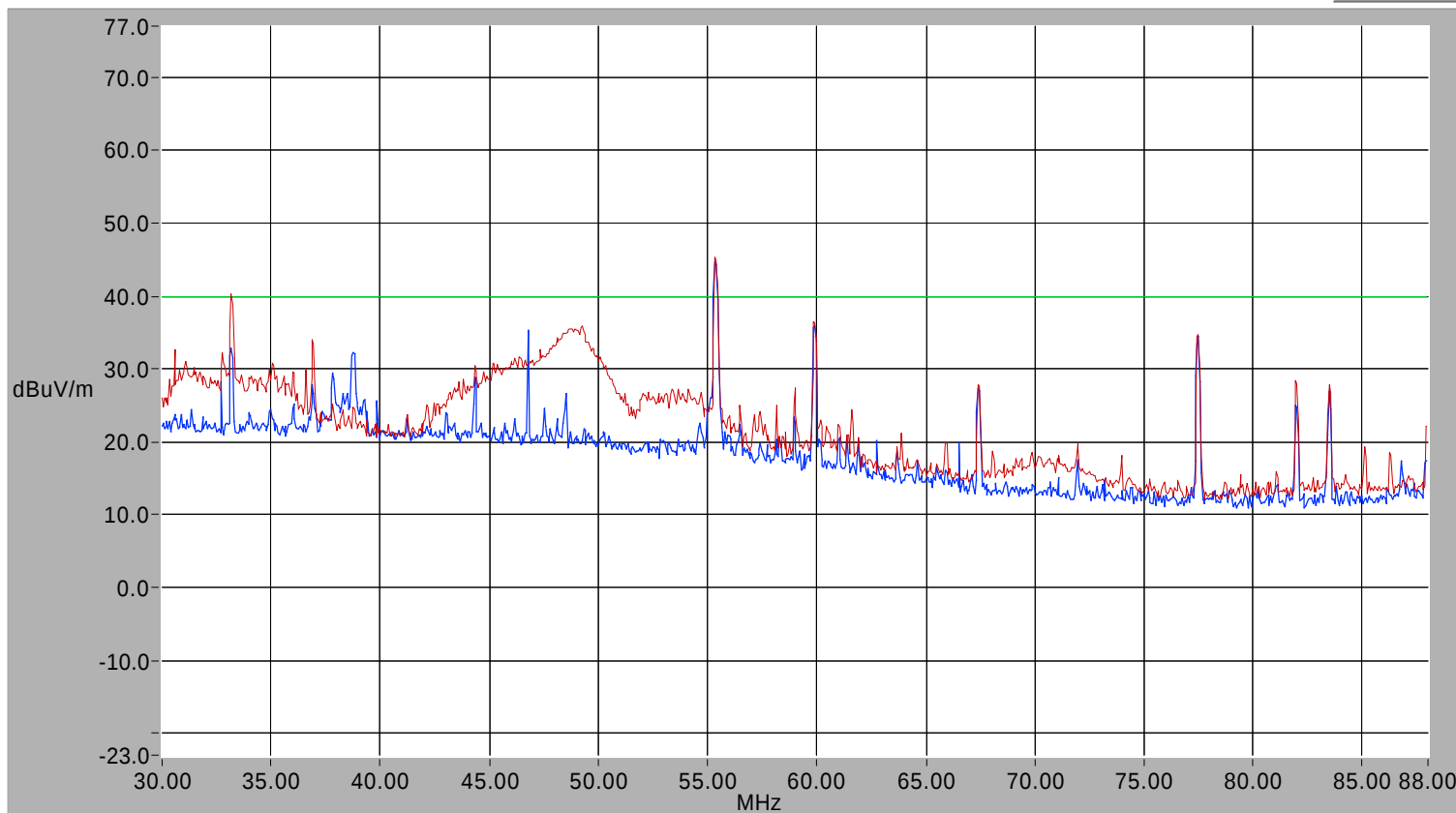
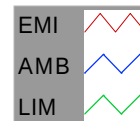
The Equipment Under Test is considered to have passed if the radiated field power does not exceed the limit of the appropriate standard as shown in section 3 of this report.

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 30 - 88 MHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 10:24 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 27



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

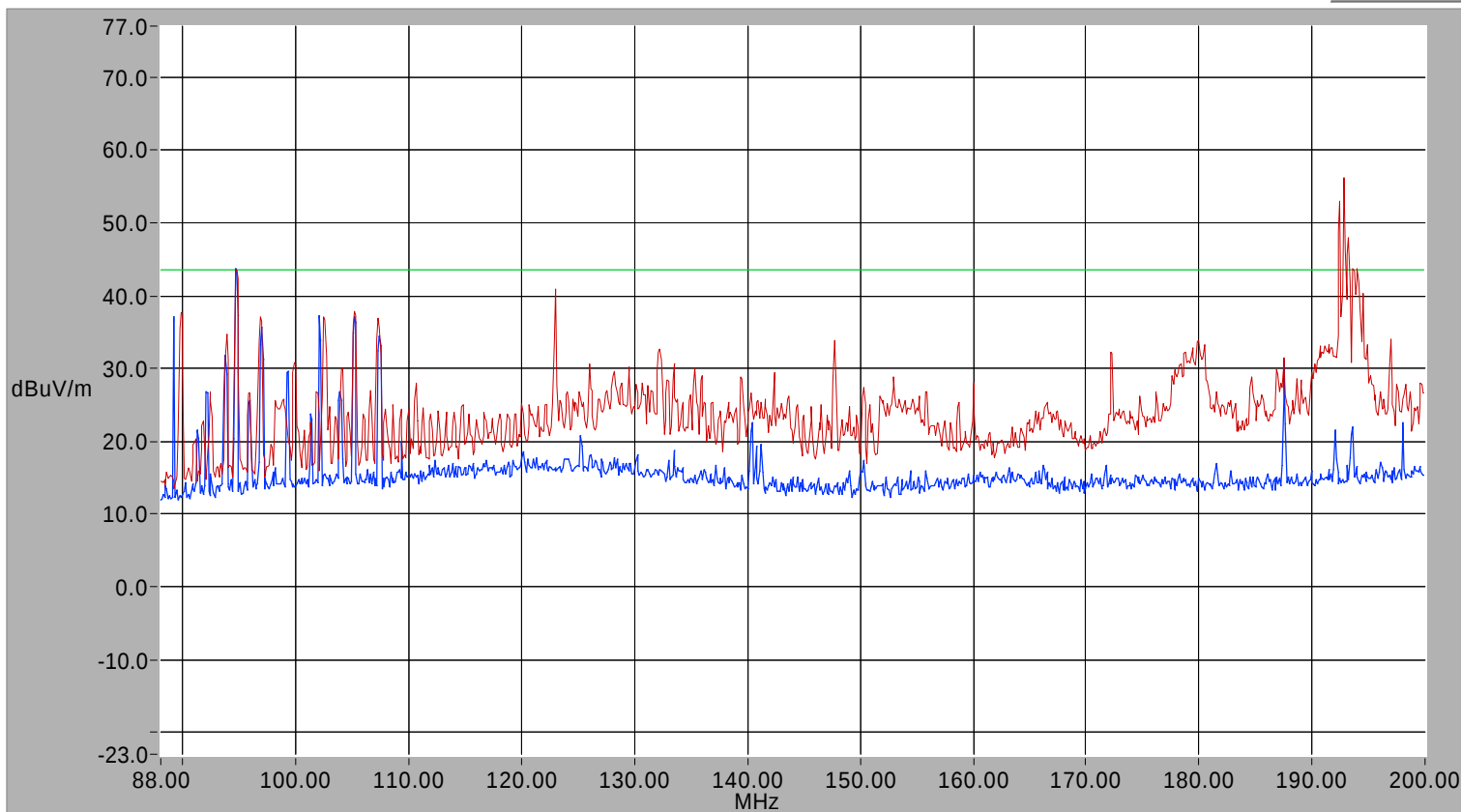
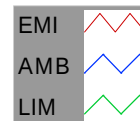
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
48.745	360	255	15.40	16.33	0.97	0.00	32.71	40.00	Pass
33.184	94	310	5.60	18.42	0.80	0.00	24.82	40.00	Pass

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 88 - 200 MHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 10:53 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 28



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

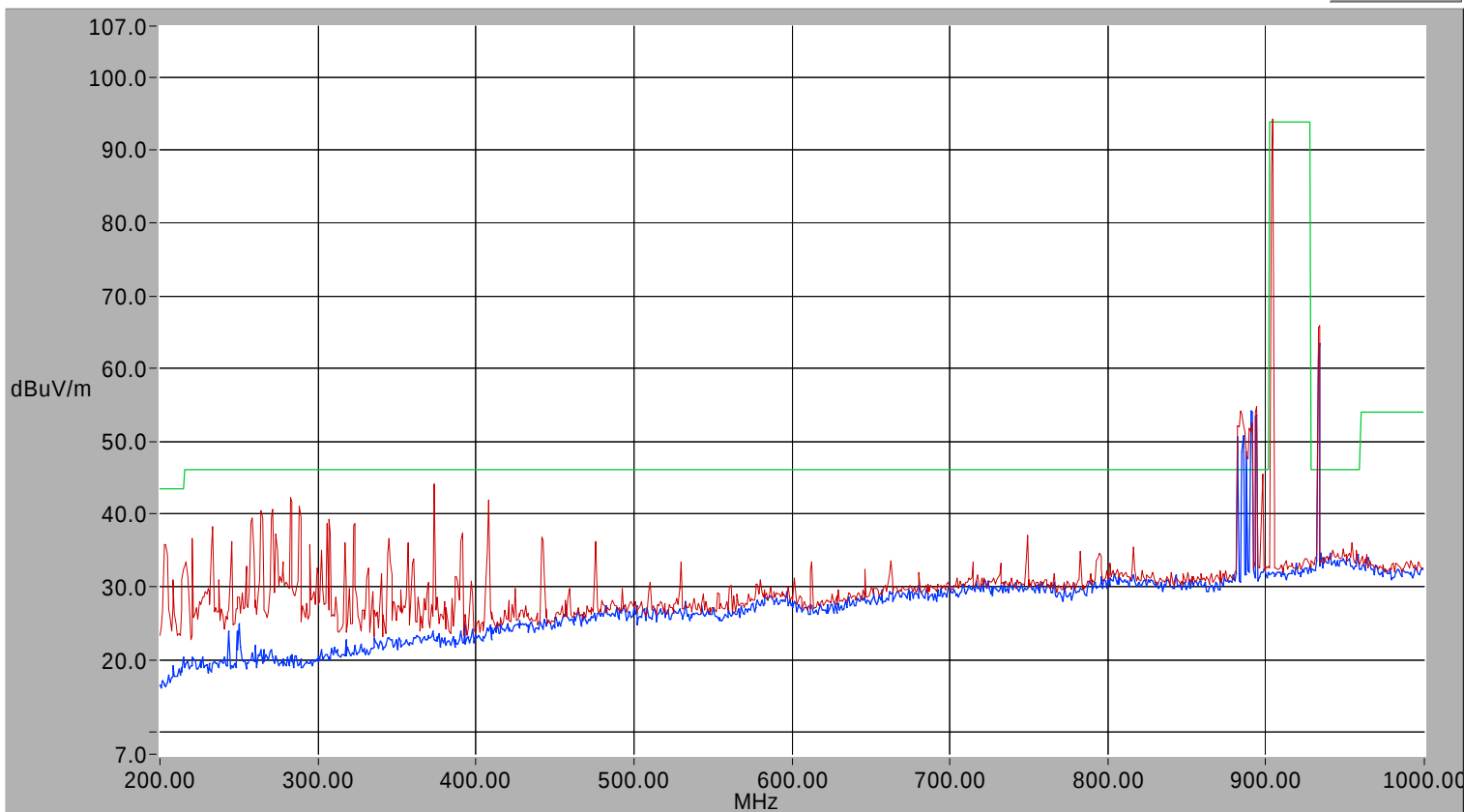
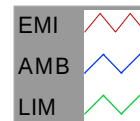
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
122.897	283	227	27.90	12.90	1.33	0.00	42.13	43.52	Pass
193.468	248	155	5.30	11.14	1.70	0.00	18.14	43.52	Pass

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 200 - 1000 MHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 11:12 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 29



VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
Fcc152~1.dat 19/4/1999

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
282.678	117	113	24.50	13.58	2.13	0.00	40.21	46.02	Pass
373.363	105	113	22.80	15.98	2.60	0.00	41.38	46.02	Pass
407.317	126	113	19.30	16.42	2.70	0.00	38.42	46.02	Pass

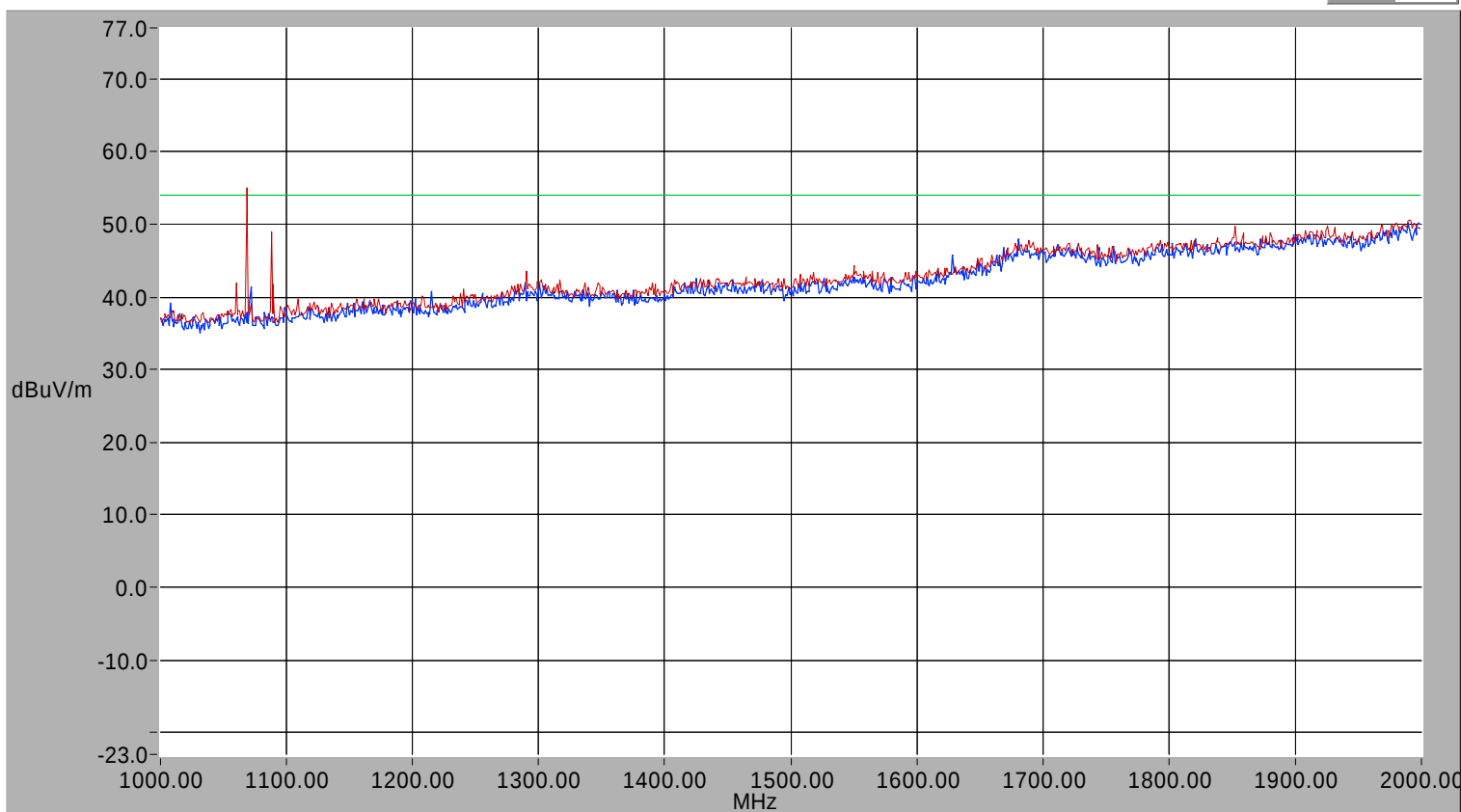
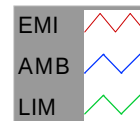
Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 1 - 2 GHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 3:15 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 19, 1999

Plot Number: 30



VBW: 1.000 MHz
RBW: 300.000 kHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
1070.010	3	161	3.00	24.00	4.61	0.00	31.61	53.98	Pass

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 2 - 5 GHz

Date & Time: 10:39 AM

April 22, 1999

Mode of Operation: Transmit At 902.2 MHz

Project #: 308A08

Distance: 3 meters

Company: E-Zone

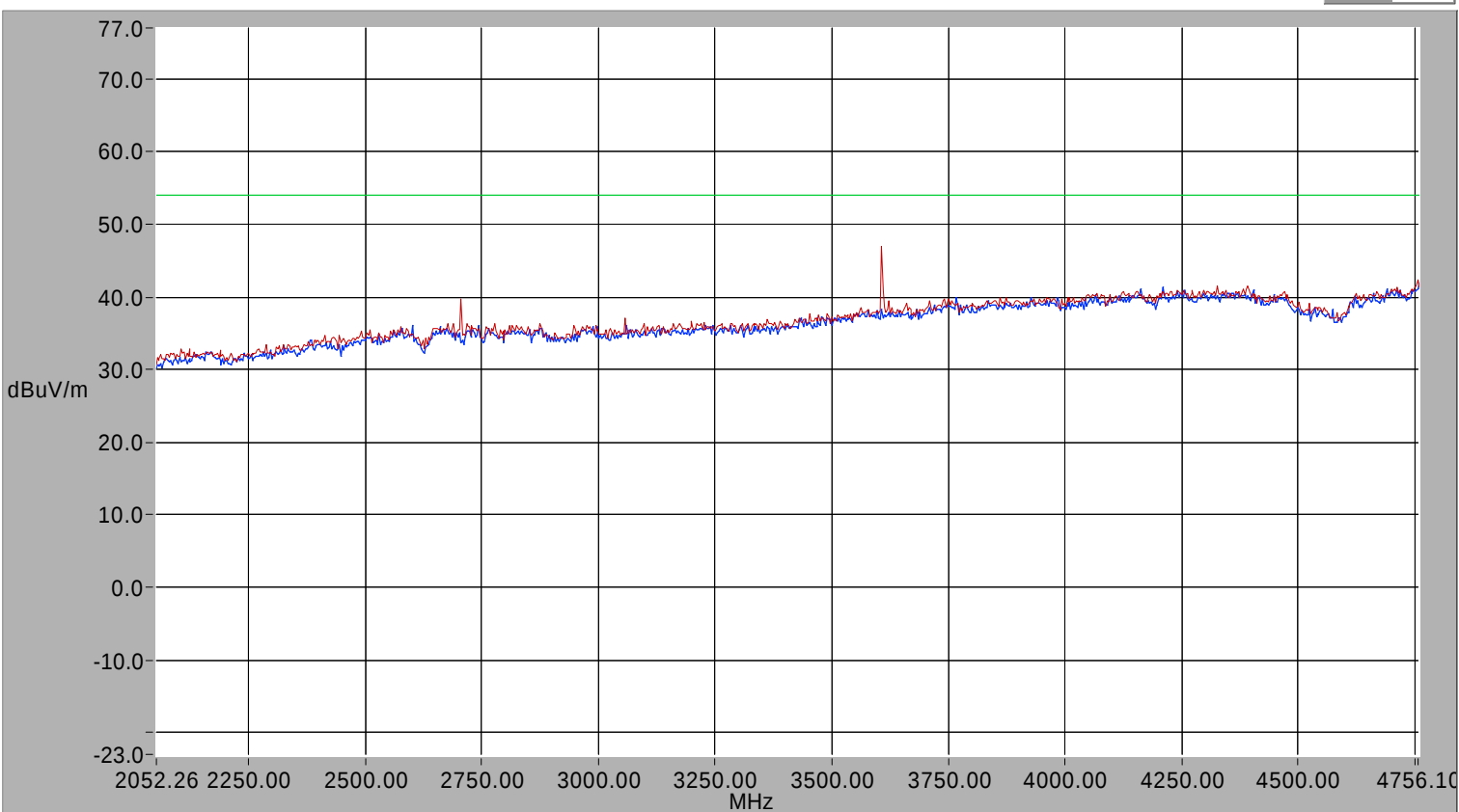
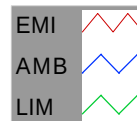
Technologist: Jeffery Taylor

Product: Tower with Version 2.0 TX

Comments:

Serial #: 001

Plot Number: 31



VBW: 100.000 kHz
RBW: 1.000 MHz

Sweep Time: Auto

Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB

An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornh.dat 12/9/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
3608.785	352	125	35.80	0.00	8.58	-3.14	41.24	53.98	Pass

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

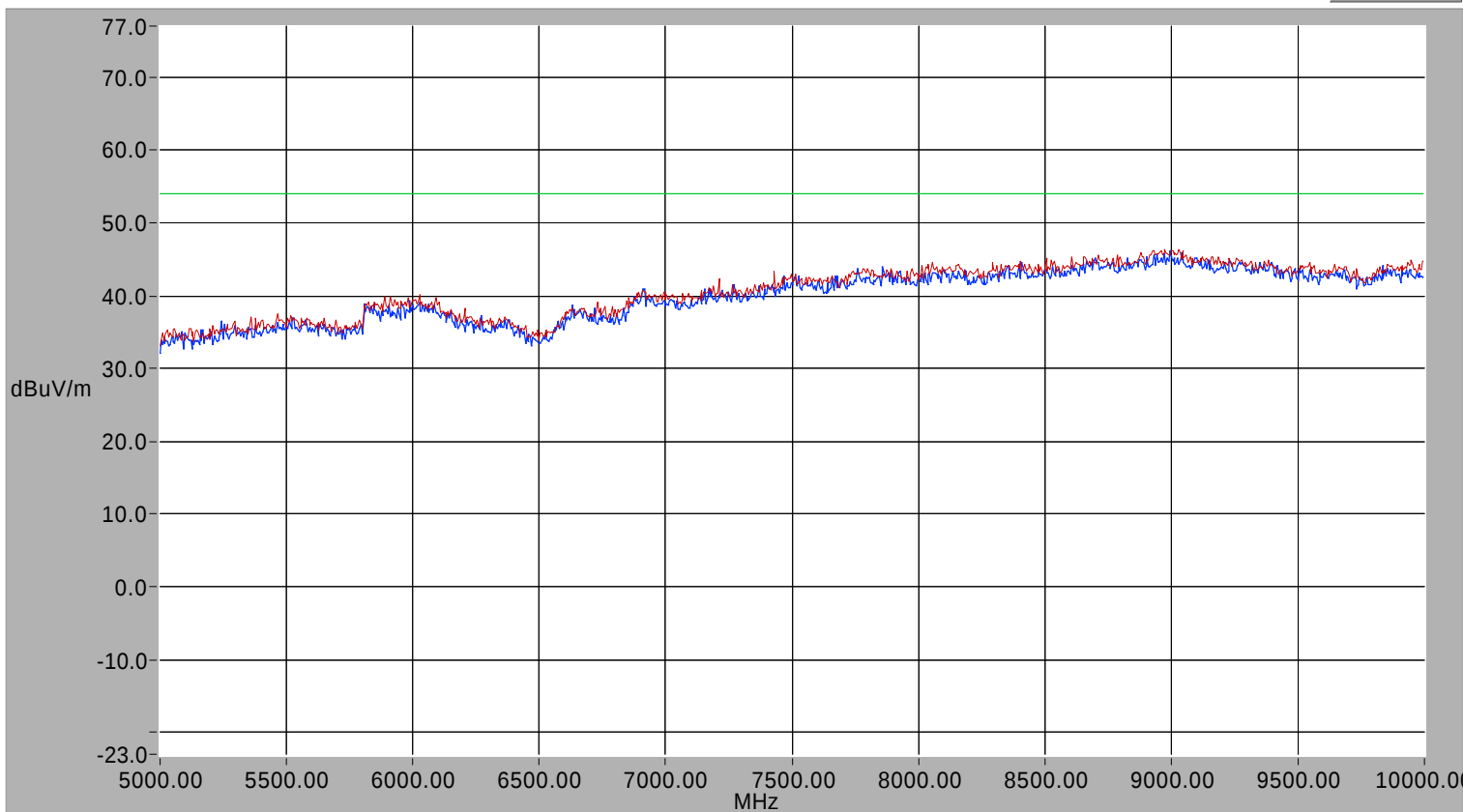
Title: 5 - 10 GHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments:

Date & Time: April 22, 1999
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

10:52 AM

EMI 
AMB 
LIM 

Plot Number: 32



VBW: 30.000 kHz
RBW: 1.000 MHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornh.dat 12/9/1998

QUASI-PEAK DATA

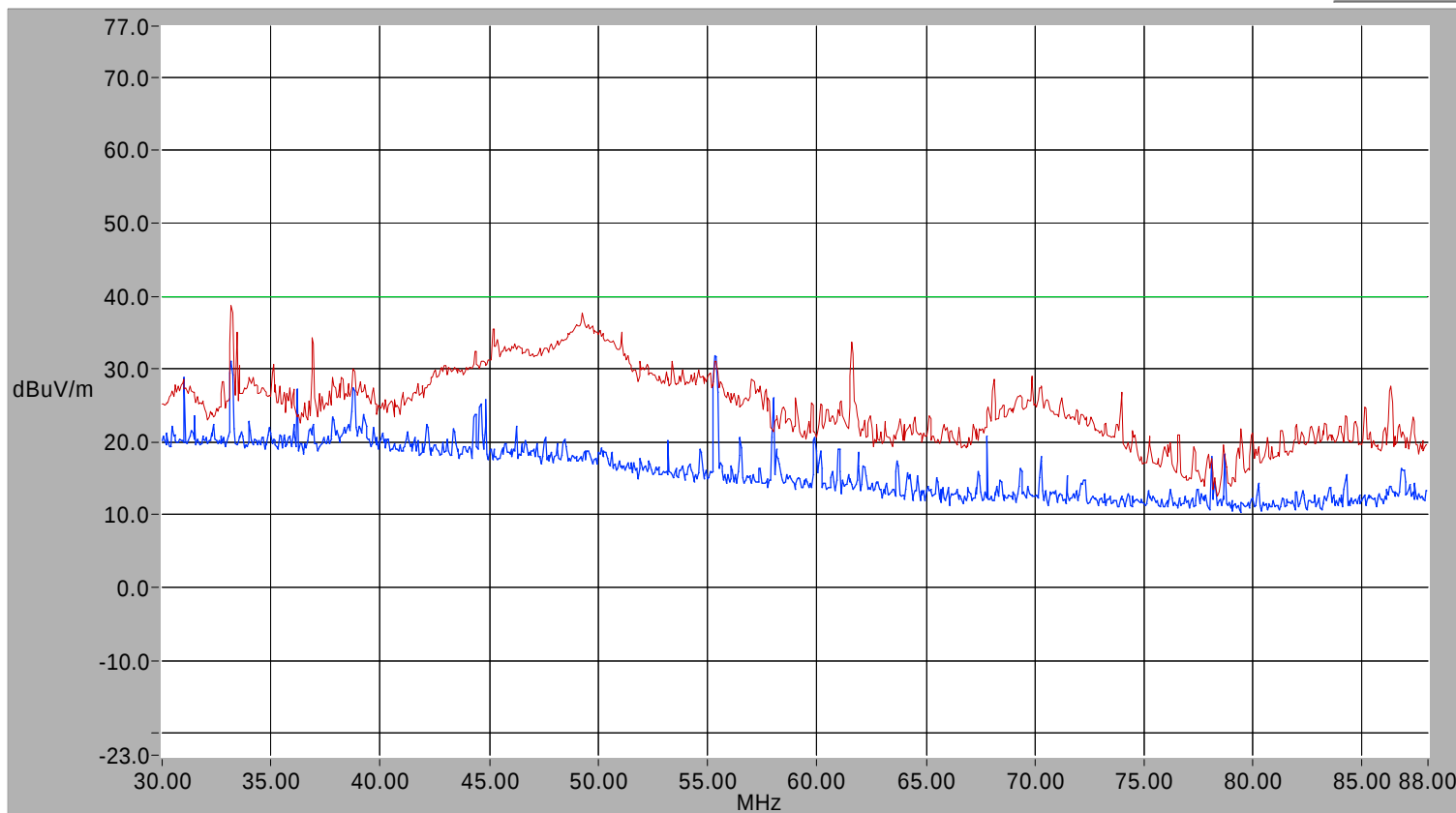
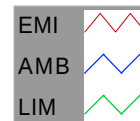
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
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Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 30 - 88 MHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 9:57 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 21



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

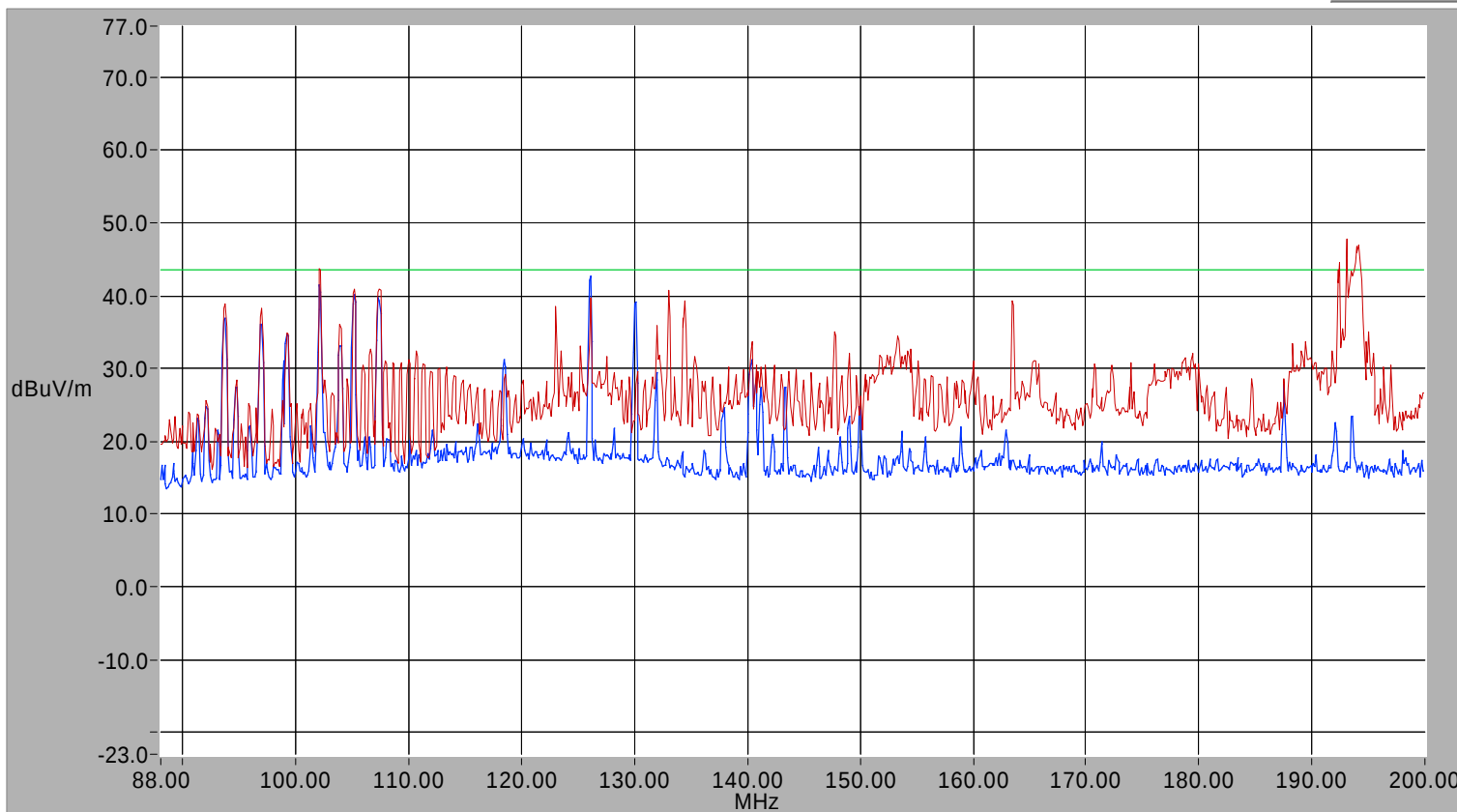
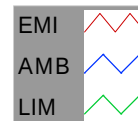
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
33.173	58	311	19.40	16.67	0.80	0.00	36.87	40.00	Pass
36.861	348	209	12.70	16.04	0.80	0.00	29.54	40.00	Pass
49.220	358	113	17.90	13.84	0.98	0.00	32.73	40.00	Pass

Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 88 - 200 Hz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 19, 1999 3:55 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 22



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
122.465	79	113	27.40	12.95	1.32	0.00	41.68	43.52	Pass
183.752	336	161	22.70	11.07	1.76	0.00	35.53	43.52	Pass
135.204	-	-	-	-	-	-	-	-	Ambient
164.312	-	-	-	-	-	-	-	-	Ambient
193.560	155	192	5.70	11.10	1.70	0.00	18.50	43.52	Pass

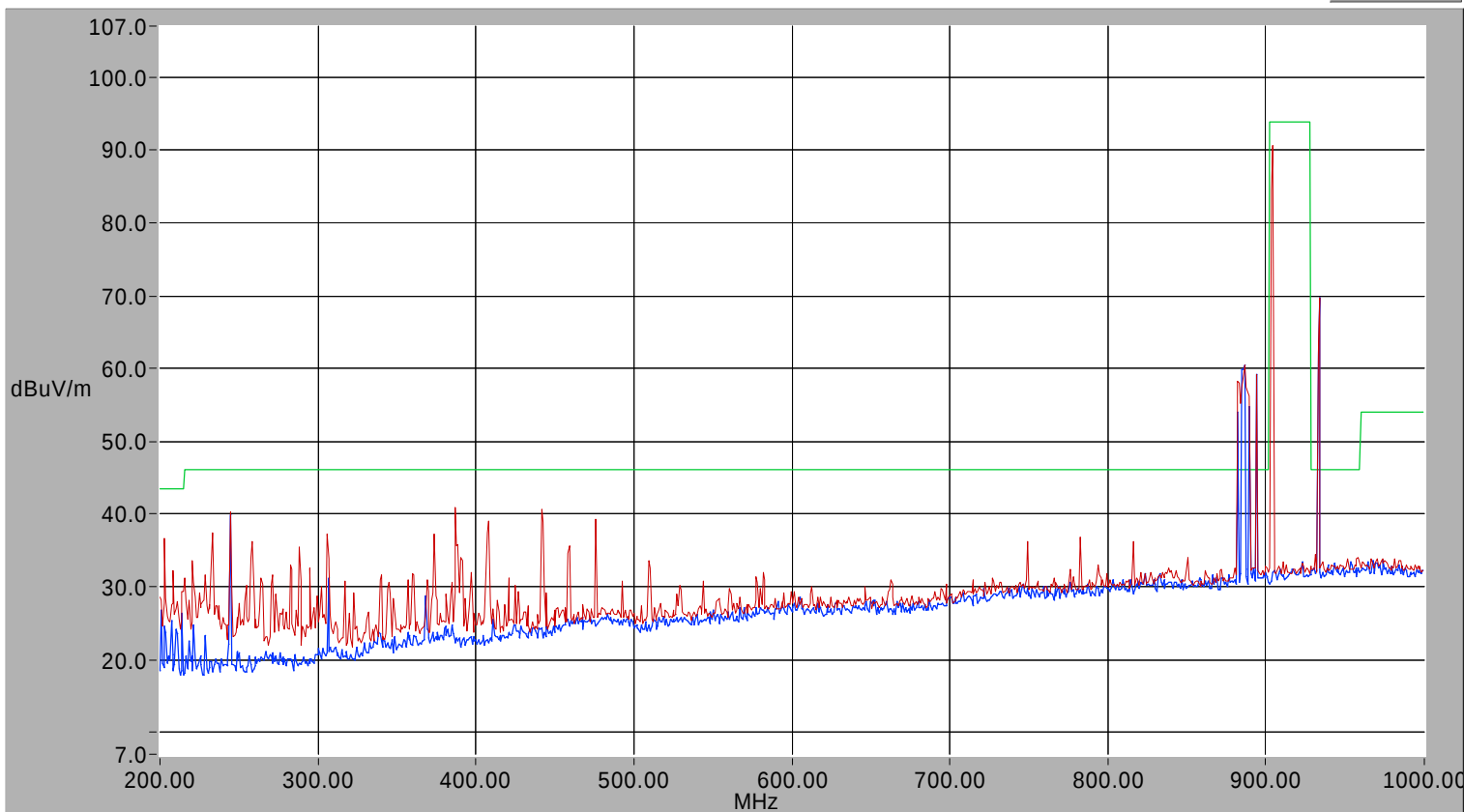
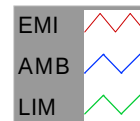
Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 200 - 1000 MHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 3:38 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Verson 2.0 TX
Serial #: 001

April 19, 1999

Plot Number: 23



VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
Fcc152~1.dat 19/4/1999

QUASI-PEAK DATA

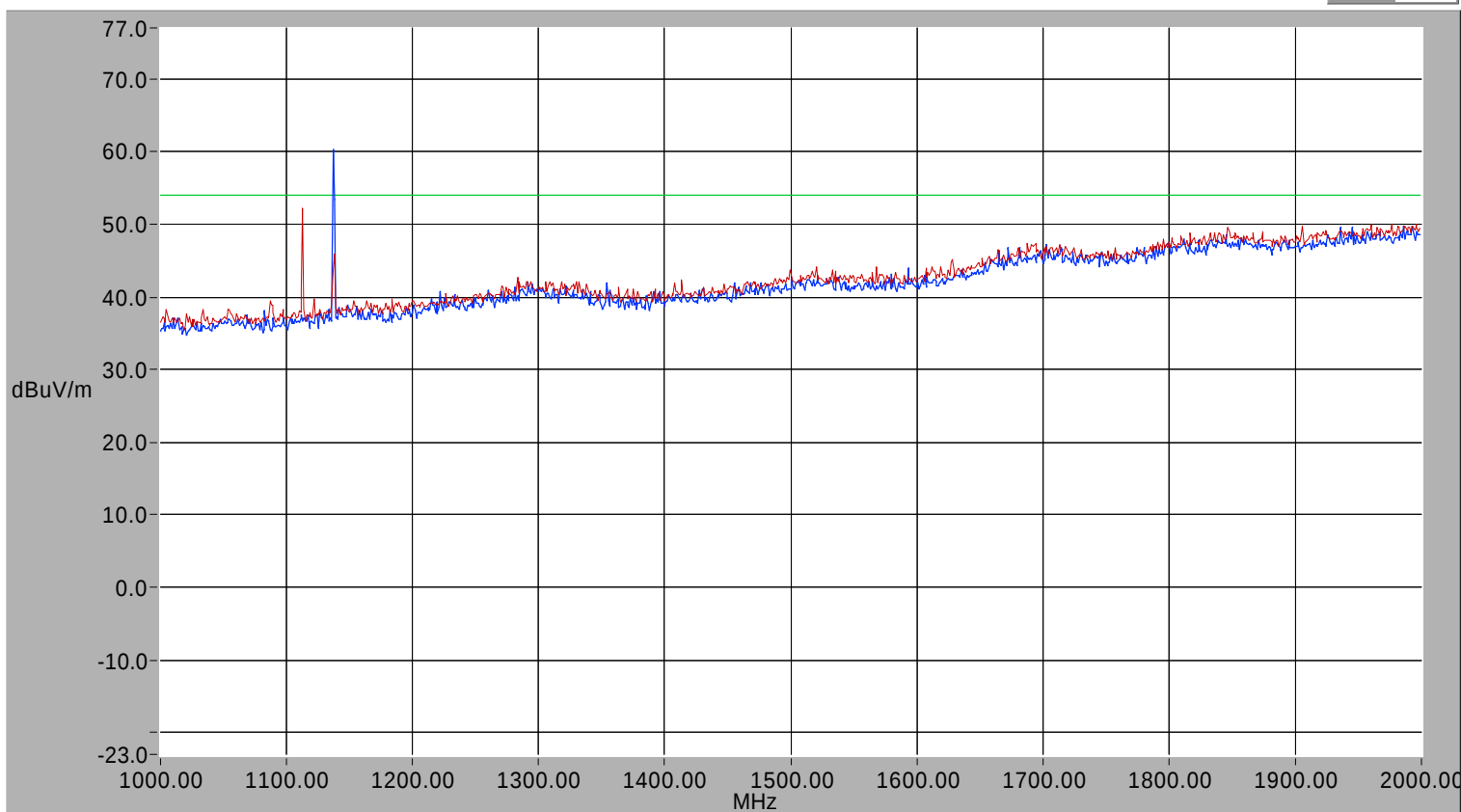
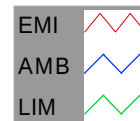
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
203.410	153	113	20.20	11.77	1.73	0.00	33.71	43.52	Pass
441.274	3	113	20.30	16.69	2.81	0.00	39.80	46.02	Pass

Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 1 - 2 GHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 19, 1999 3:30 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 24



VBW: 1.000 MHz
RBW: 300.000 kHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

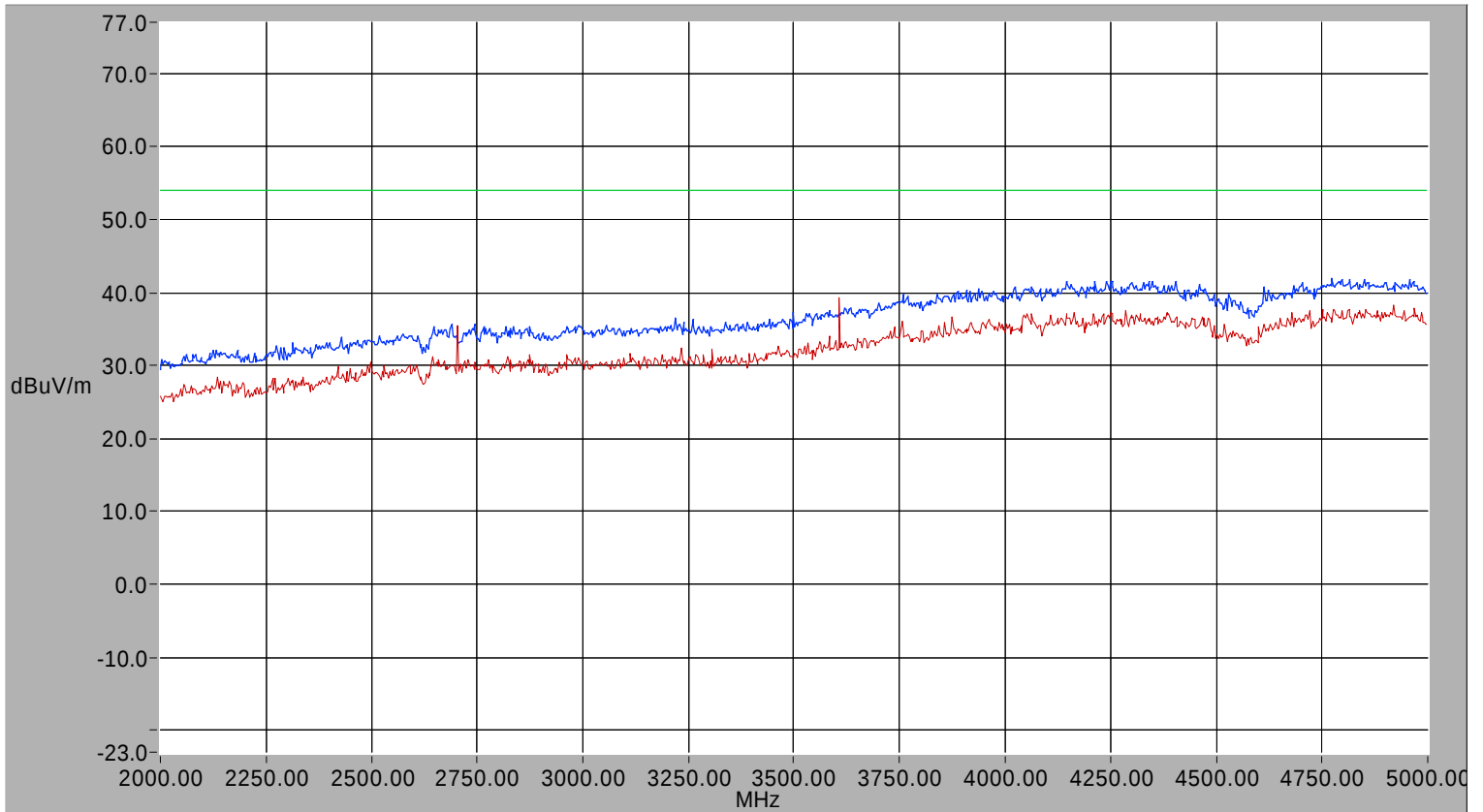
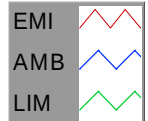
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
1122.240	-	-	-	-	-	-	-	-	Ambient

**Radiated Emissions
Vertical Polarity
FCC Part 15 Class B 3m**

Title: 2 - 5 GHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments:

Date & Time: April 22, 1999 11:27 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Verson 2.0 TX
Serial #: 001

Plot Number: 25



VBW: 100.000 kHz Sweep Time: Auto PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

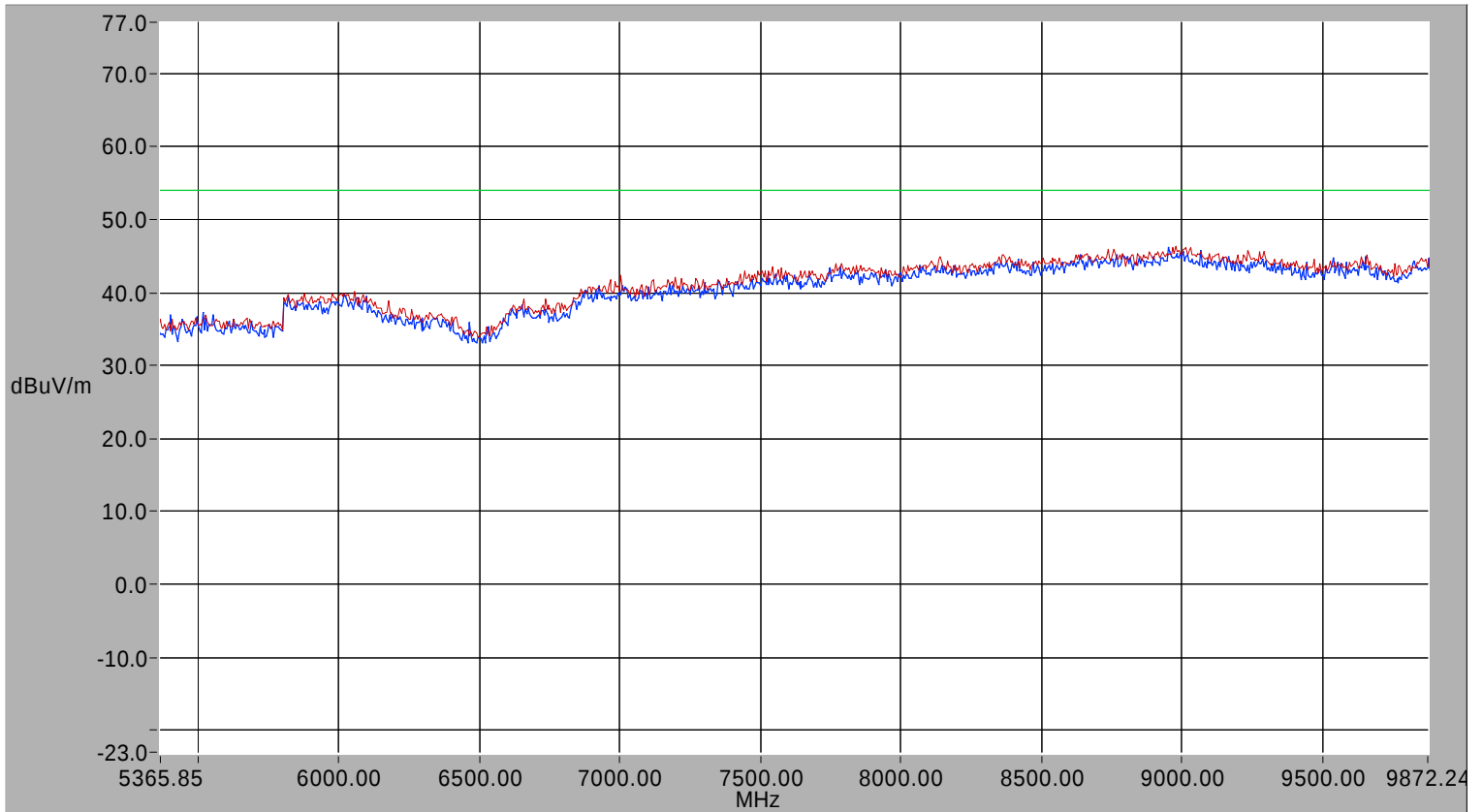
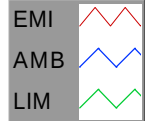
ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornv.dat 12/9/1998

**Radiated Emissions
Vertical Polarity
FCC Part 15 Class B 3m**

Title: 5 - 10 GHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments:

Date & Time: April 22, 1999 11:17 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 26



VBW: 30.000 kHz
RBW: 1.000 MHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat	4/8/1998
zero.DAT	23/4/1997
FCC15B3.DAT	20/8/1998
Amphornv.dat	12/9/1998

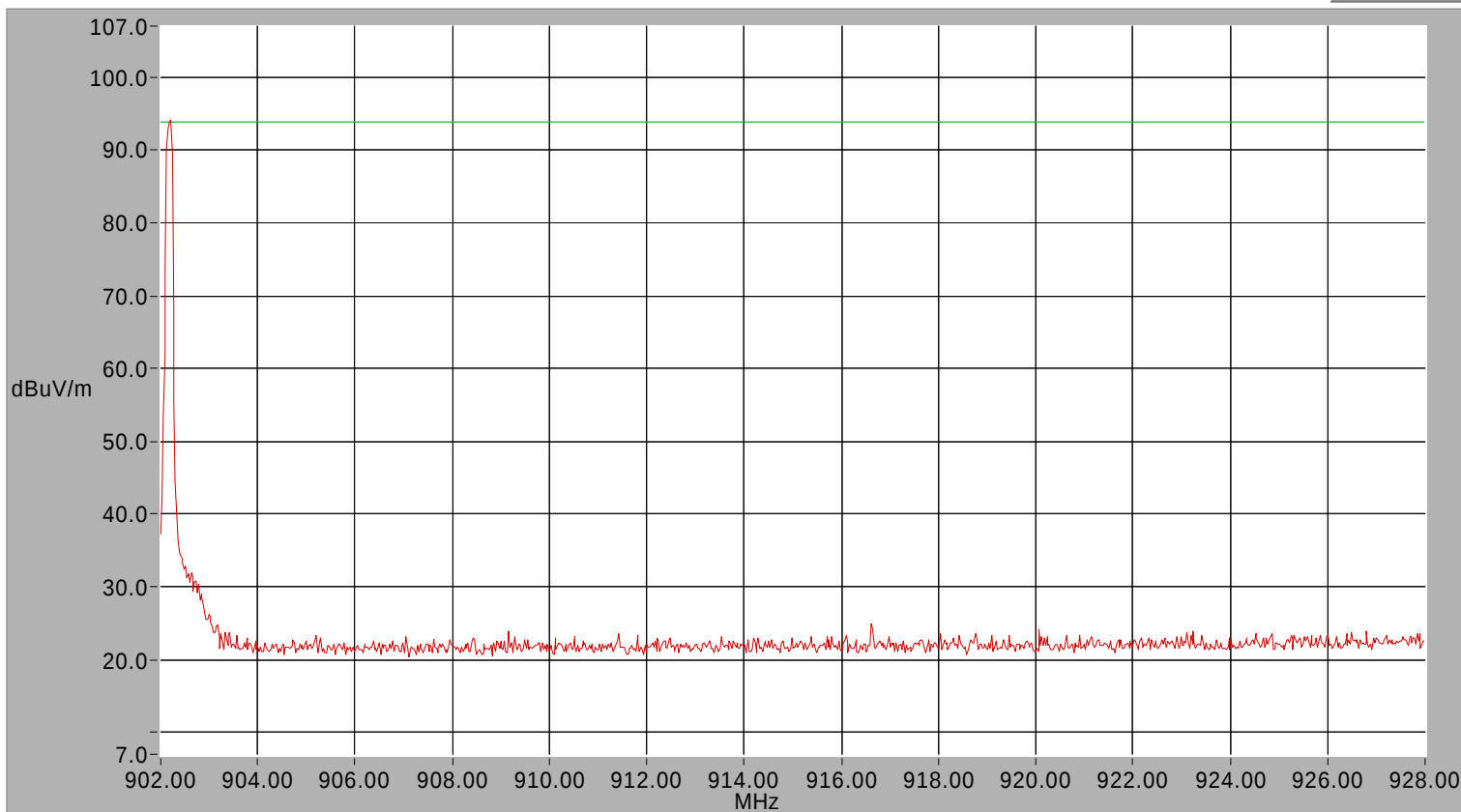
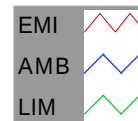
Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 902 - 928 MHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 19, 1999
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

12:25 PM

Plot Number: 34



VBW: 30.000 kHz
RBW: 10.000 kHz

Sweep Time: 240.00 ms
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
fcc15-2493.dat 28/4/1999

QUASI-PEAK DATA

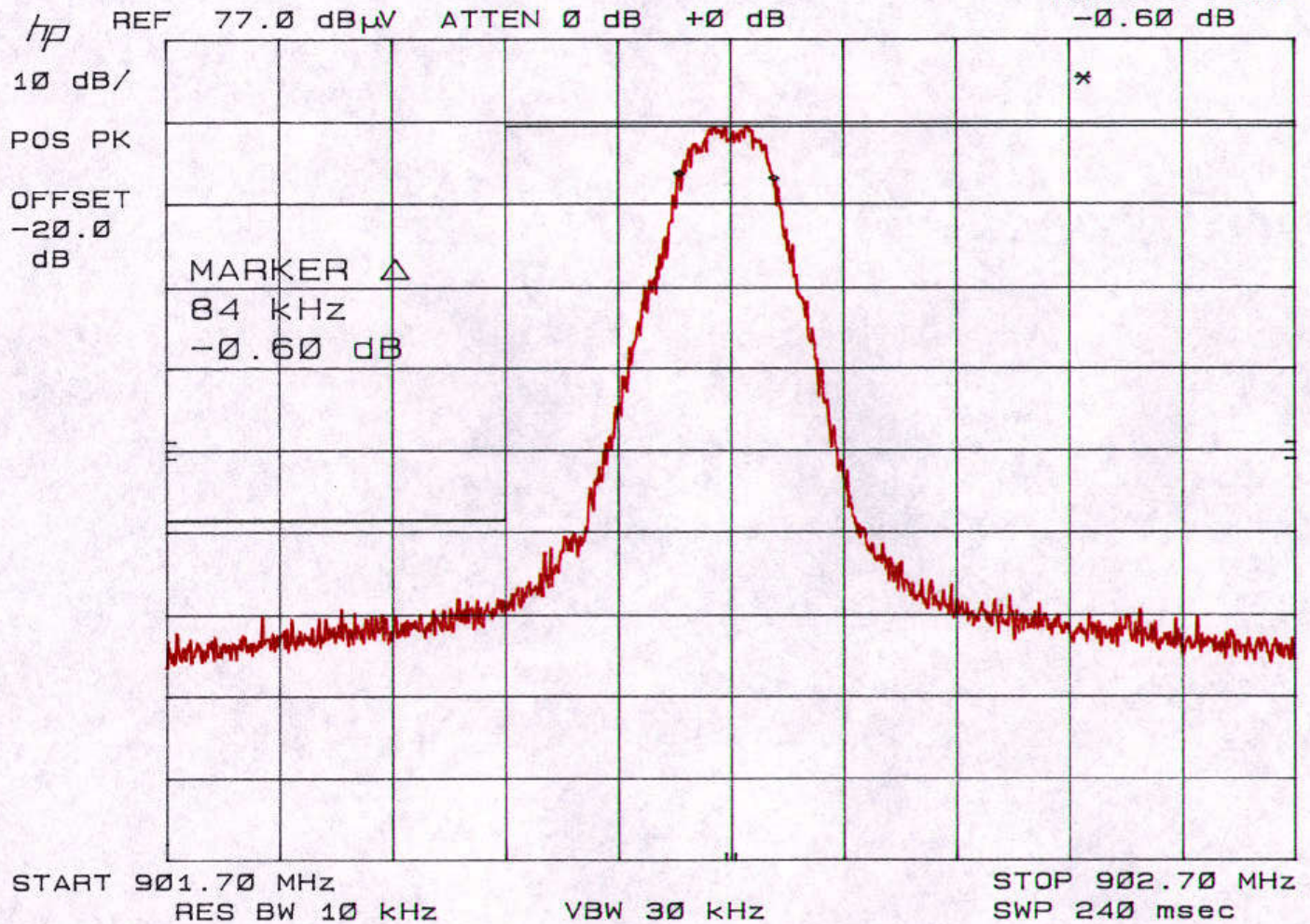
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
902.214	139	113	65.60	23.60	4.21	0.00	93.41	93.98	Pass

19 April 1999

Plot 6

H_{per}

MKR Δ 84 kHz
-0.60 dB



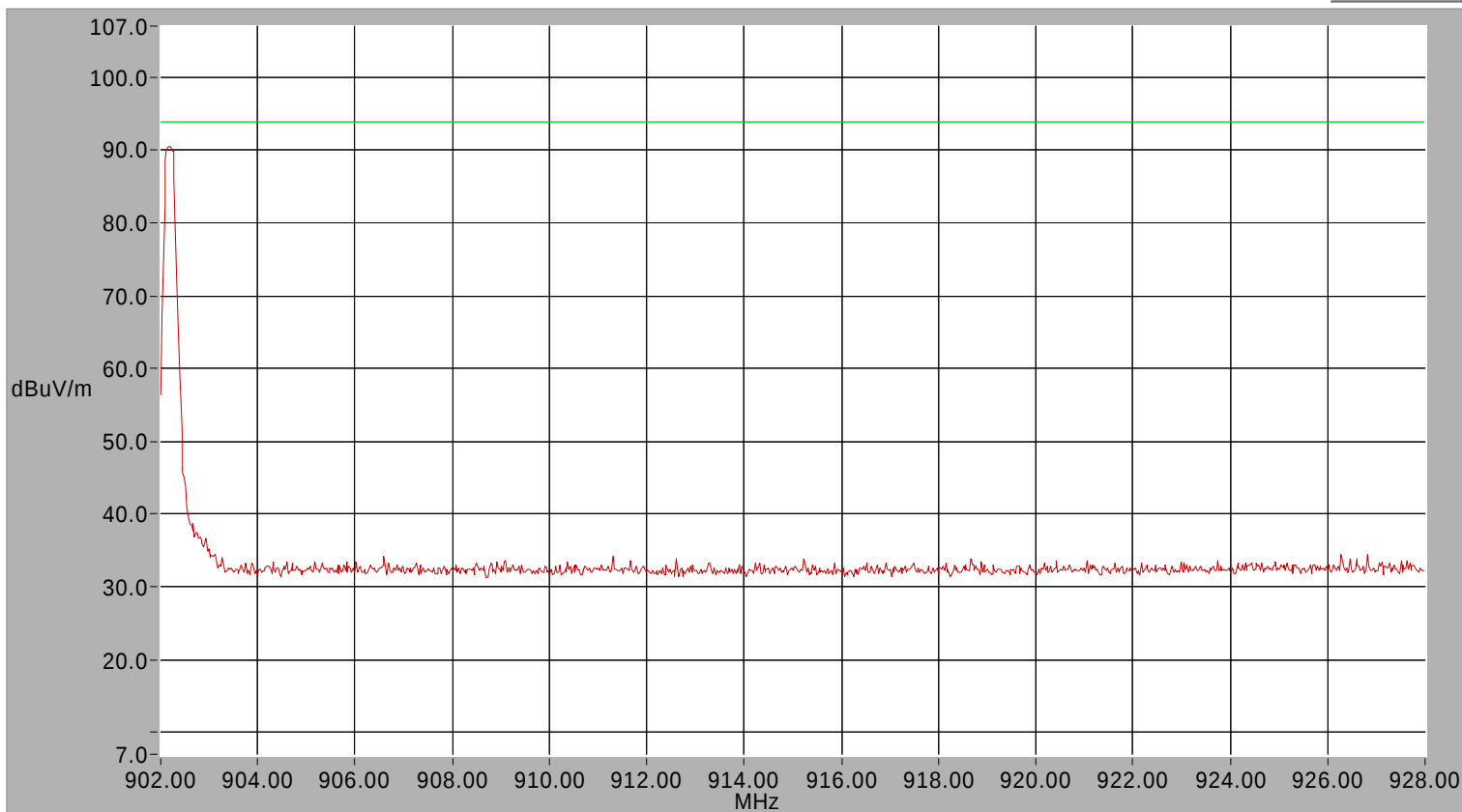
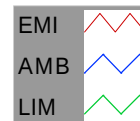
Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 902 - 928 MHz
Mode of Operation: Transmit At 902.2 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 12:20 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 19, 1999

Plot Number: 33



VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

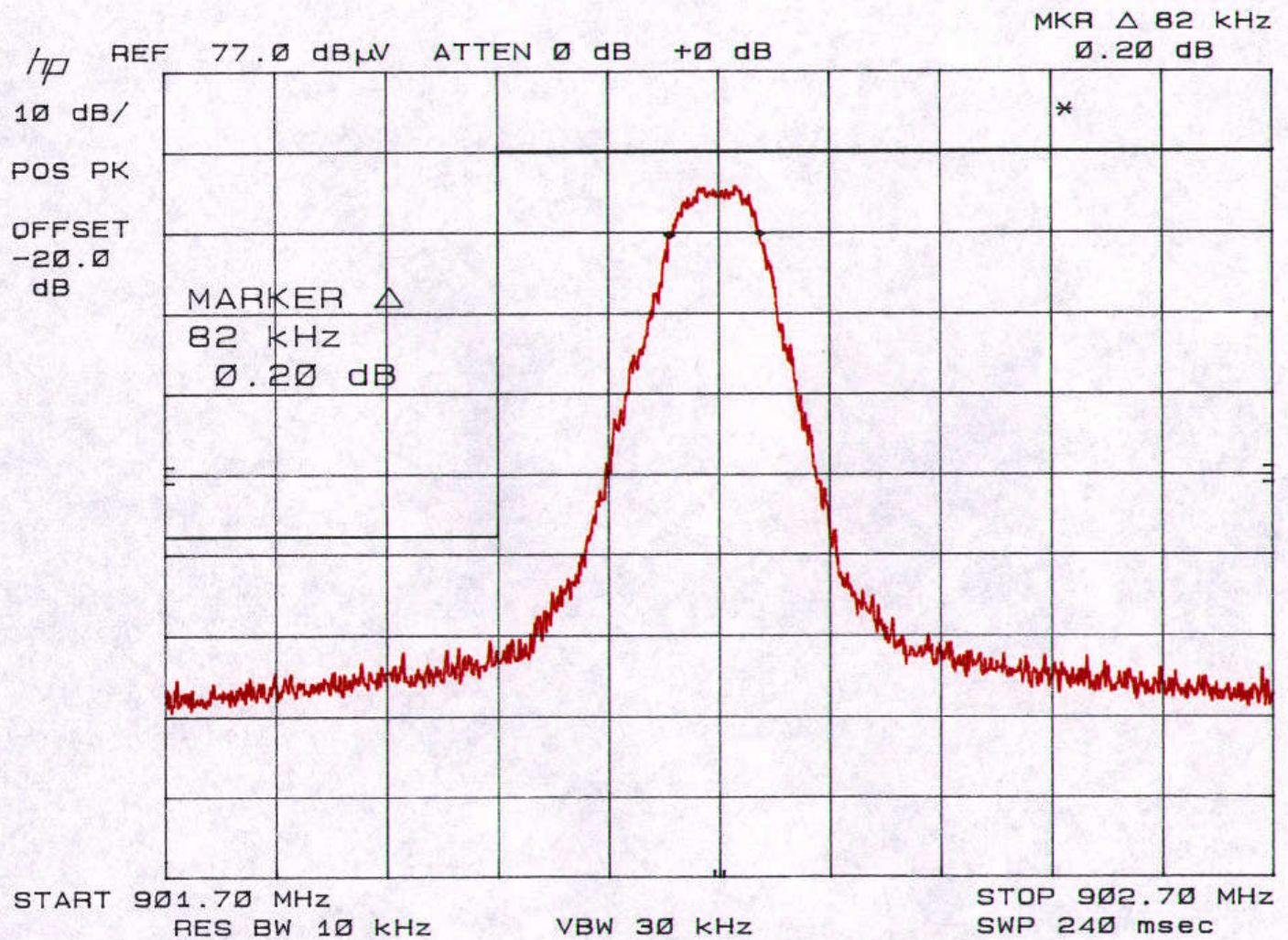
ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
Fcc152~1.dat 19/4/1999

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
902.195	100	124	64.10	22.81	4.21	0.00	91.12	93.97	Pass

19 April 1999

Plot 8
V_{port}



Appendix 3

**Test Result Data Forms
FOR
E-Zone Networks Inc.'s
E-9000 Tower with Version 2 Transmitter
TO DETERMINE COMPLIANCE WITH
FCC Part 15 Subpart C, Radiated Emissions
When Transmitting At 915.0 MHz**

PROJECT NO. 308A08

TEST COMPLETED: 22 April, 1999

Client: E-Zone Networks Inc.
Don La Font
520 - 5 Avenue SW
Calgary, Alberta
T2P 3R7

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Horizontal Band Width	52

This testing was done using a E-9000 Tower with Version 2 Transmitter.
This Test was done using FCC Part 15 Subpart C specifications.

There were no variations to the test method.

The E-9000 Tower with Version 2 Transmitter produced by E-Zone Networks Inc., **PASSED** FCC Part 15 Subpart C radiated emission in the configuration described in section 2.4, while transmitting at 915.0 MHz.

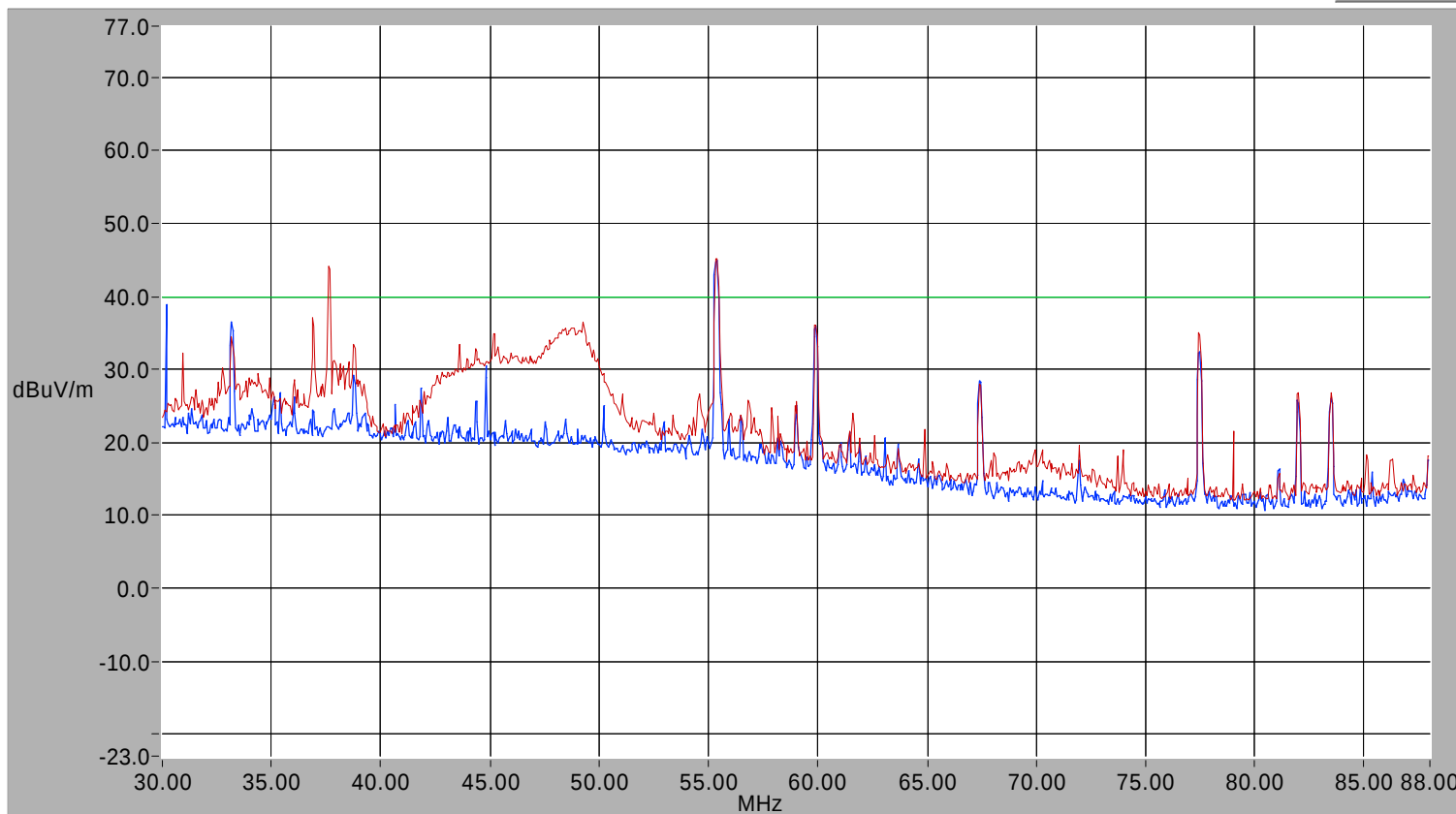
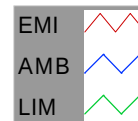
The Equipment Under Test is considered to have passed if the radiated field power does not exceed the limit of the appropriate standard as shown in section 3 of this report.

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 30 - 88 MHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 11:37 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 11



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
36.874	-	-	-	-	-	-	-	-	Ambient
48.360	3	250	13.00	16.41	0.97	0.00	30.38	40.00	Pass

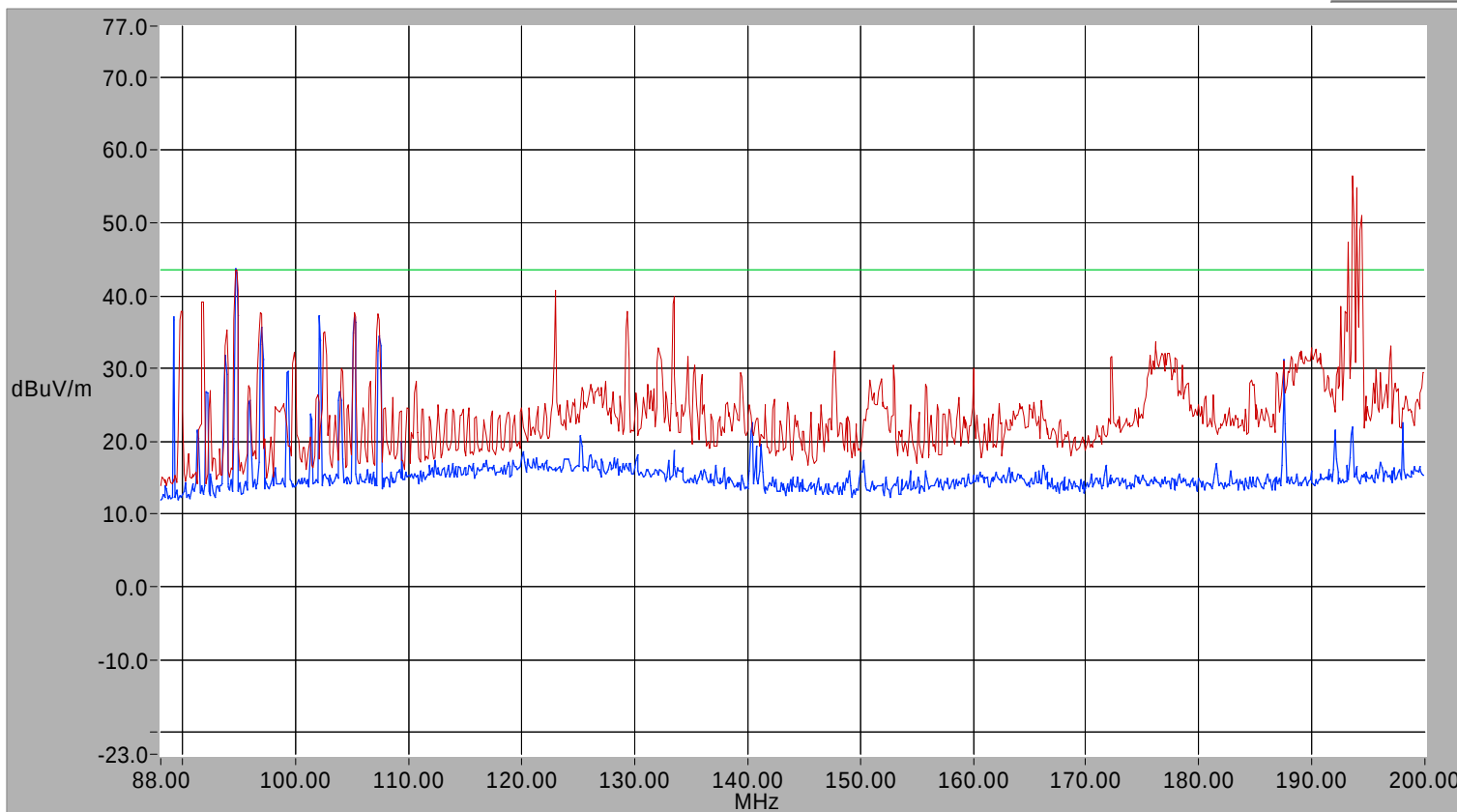
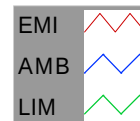
Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 88 - 200 MHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 12:05 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 20, 1999

Plot Number: 12



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

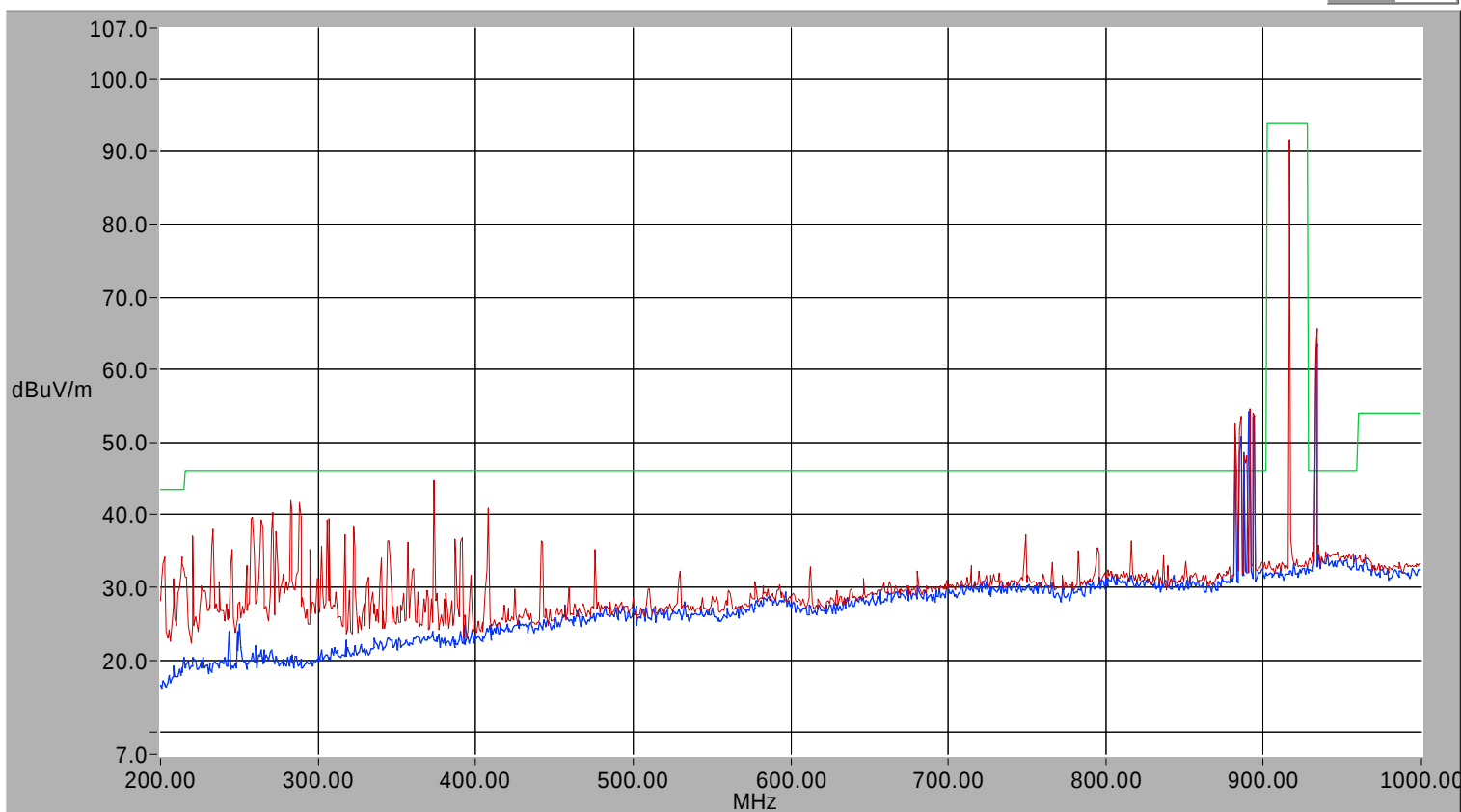
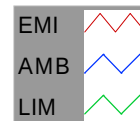
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
129.986	-	-	-	-	-	-	-	-	Ambient
133.294	-	-	-	-	-	-	-	-	Ambient
122.902	283	228	27.60	12.90	1.33	0.00	41.83	43.52	Pass
193.392	82	158	5.00	11.13	1.70	0.00	17.83	43.52	Pass

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 200 - 1000 MHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 12:21 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 13



VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
fcc15-2493.dat 28/4/1999

QUASI-PEAK DATA

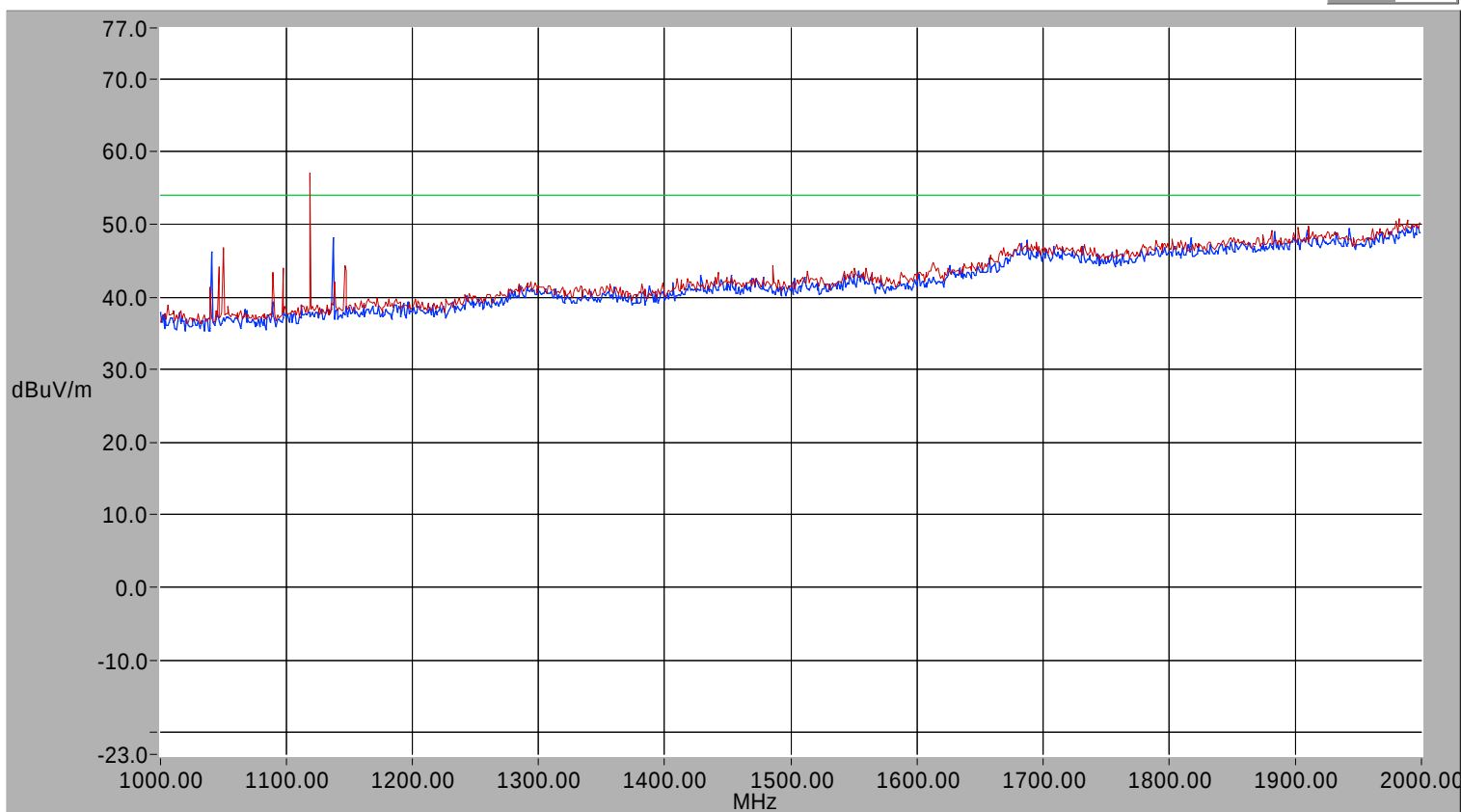
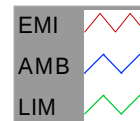
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
282.685	119	113	25.40	13.58	2.13	0.00	41.11	46.02	Pass
288.001	118	113	23.90	13.50	2.18	0.00	39.58	46.02	Pass
373.372	101	113	22.50	15.98	2.60	0.00	41.08	46.02	Pass

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 1 - 2 GHz
Mode of Operation: Transmit At 215 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 19, 1999 3:05 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 14



VBW: 1.000 MHz
RBW: 300.000 kHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

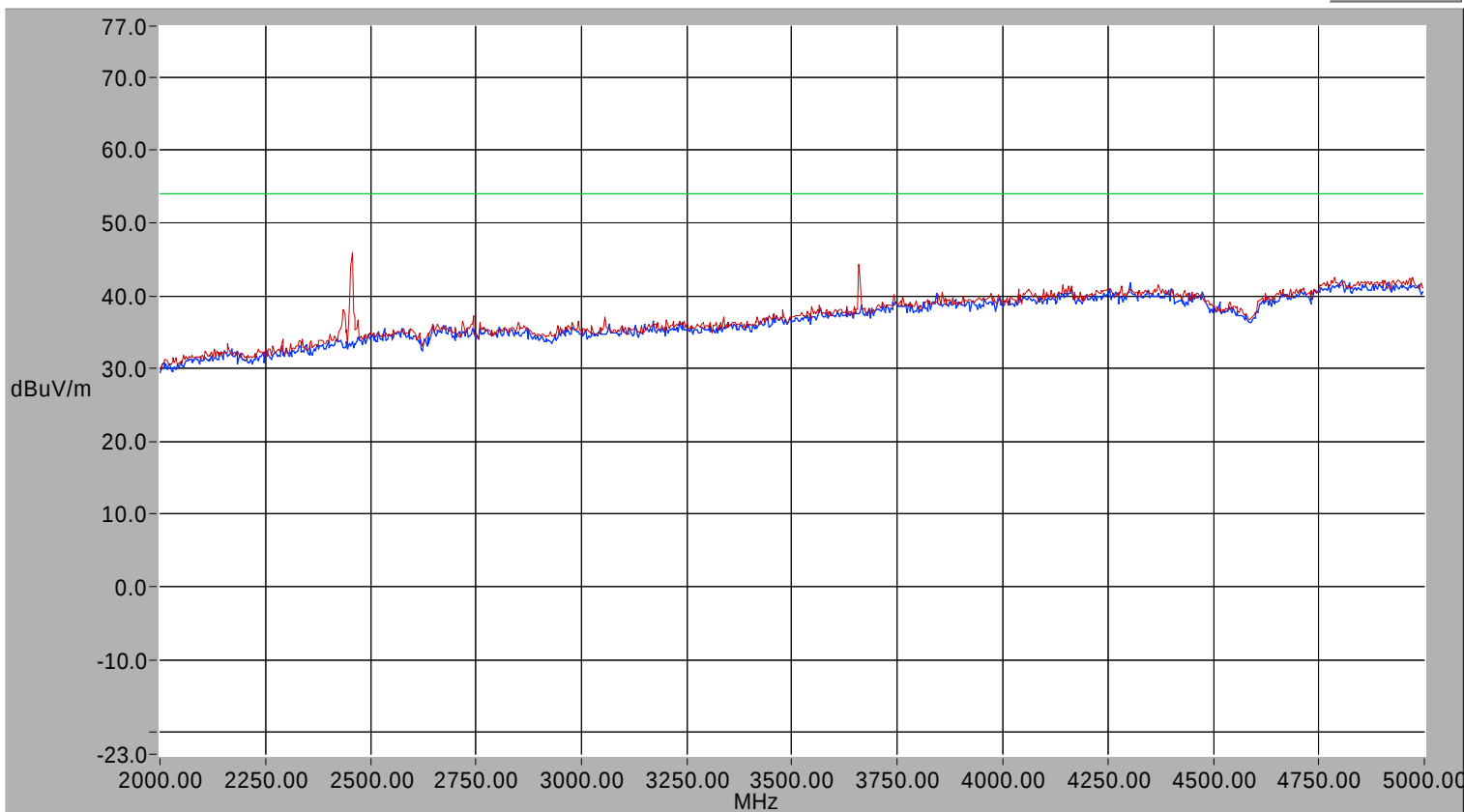
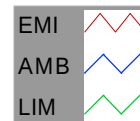
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
1122.780	-	-	-	-	-	-	-	-	Ambient

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 2 - 5 GHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments:

Date & Time: April 22, 1999 10:21 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 15



VBW: 100.000 kHz Sweep Time: Auto PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornh.dat 12/9/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
2453.280	-	-	-	-	-	-	-	-	Ambient

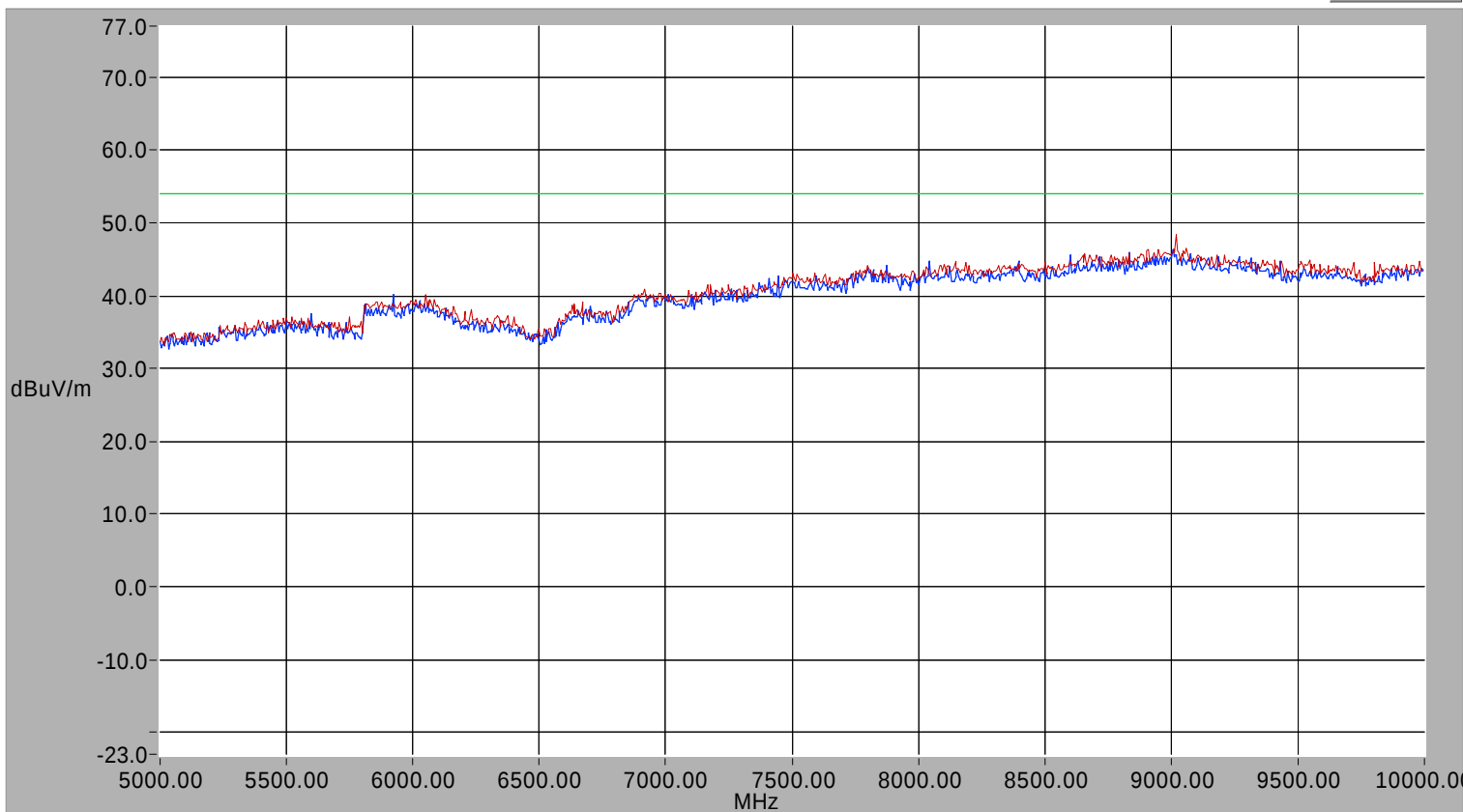
**Radiated Emissions
Horizontal Polarity
FCC Part 15 Class B 3m**

Title: 5 - 10 GHZ
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments:

Date & Time: April 22, 1999 10:31 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Verson 2.0 TX
Serial #: 001

Plot Number: 16

EMI 
AMB 
LIM 



VBW: 30.000 kHz
RBW: 1.000 MHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

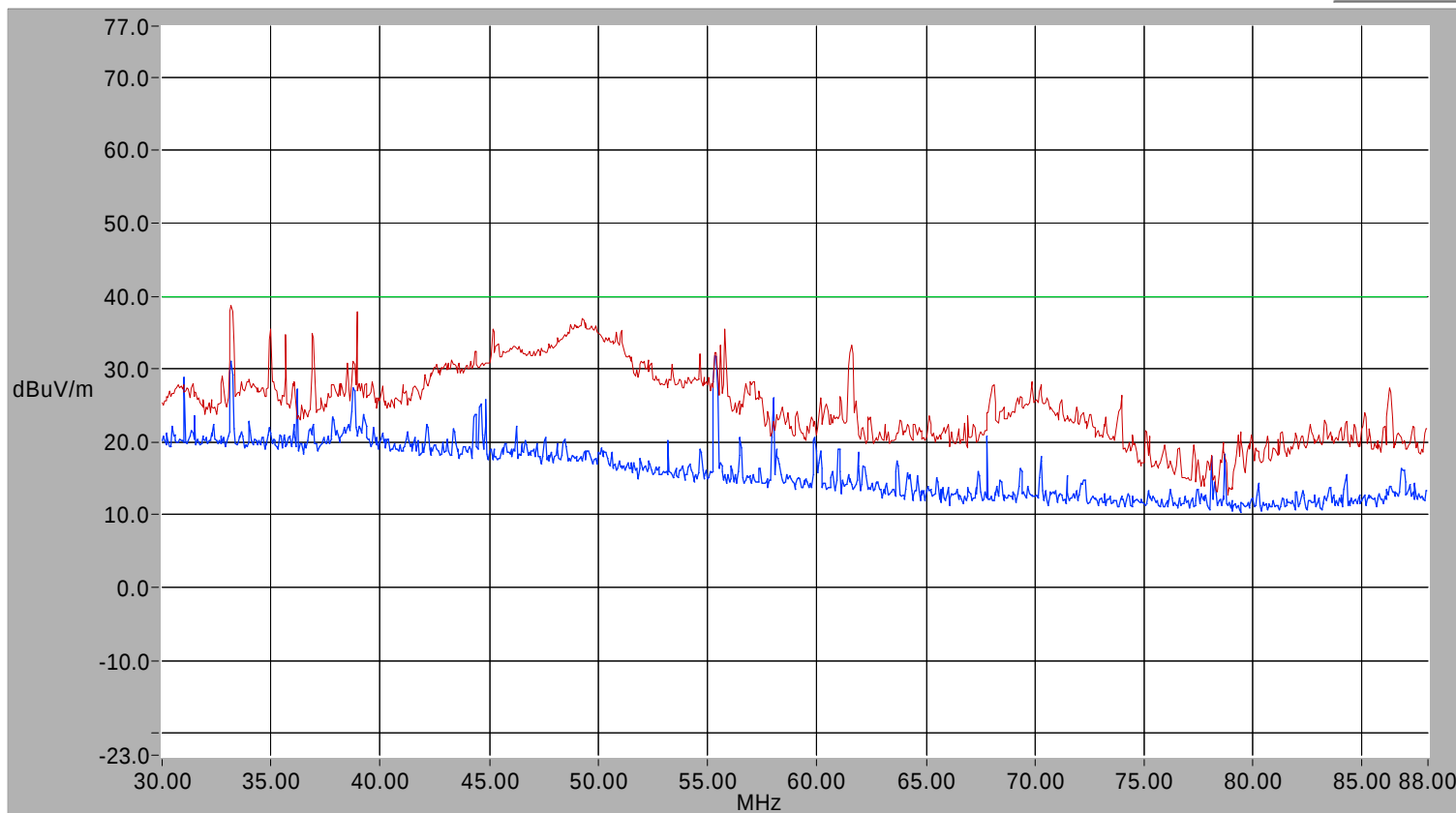
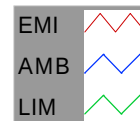
ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornh.dat 12/9/1998

Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 30 - 88 MHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 12:38 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 5



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
36.852	355	244	13.00	16.04	0.80	0.00	29.84	40.00	Pass
49.162	250	113	17.90	13.86	0.98	0.00	32.74	40.00	Pass
34.144	-	-	-	-	-	-	-	-	Ambient
34.892	-	-	-	-	-	-	-	-	Ambient
38.696	-	-	-	-	-	-	-	-	Ambient

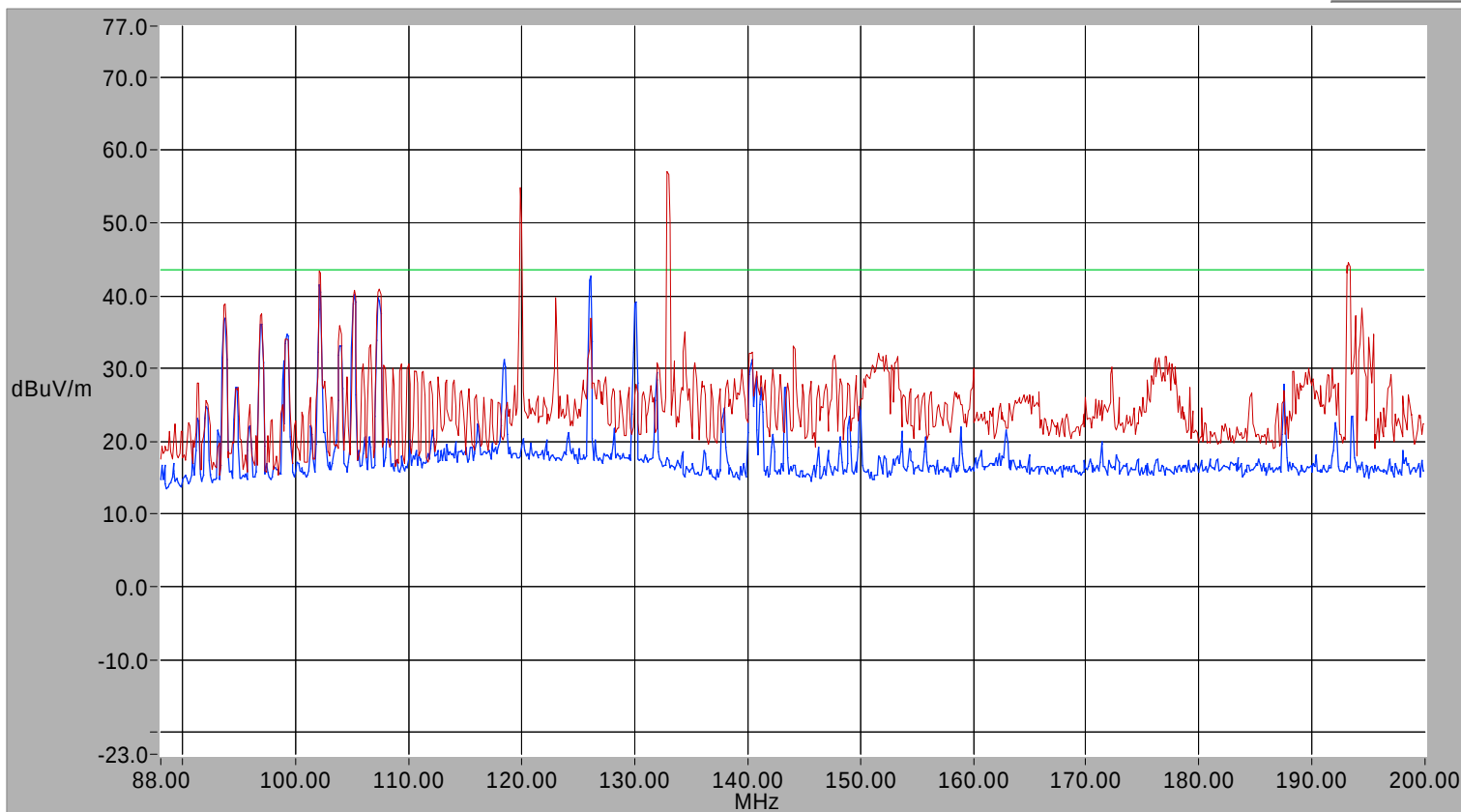
Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 88 - 200 MHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 12:58 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 6

EMI 
AMB 
LIM 



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
120.034	-	-	-	-	-	-	-	-	Ambient
131.992	-	-	-	-	-	-	-	-	Ambient
122.896	356	113	24.80	12.90	1.33	0.00	39.03	43.52	Pass
193.232	150	243	9.10	11.10	1.70	0.00	21.90	43.52	Pass

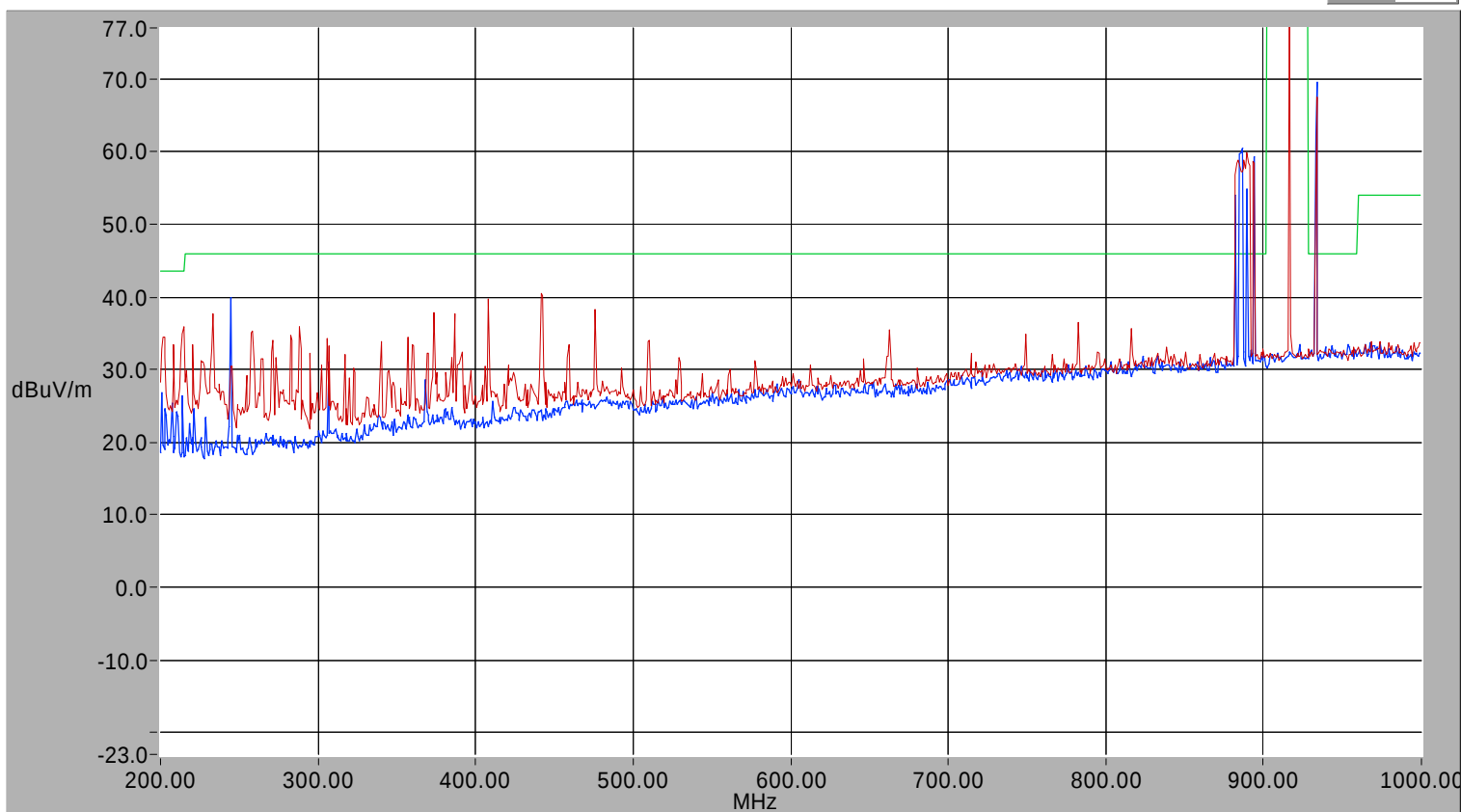
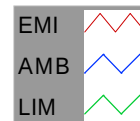
Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 200 - 1000 MHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 1:19 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Verson 2.0 TX
Serial #: 001

April 20, 1999

Plot Number: 7



VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
Fcc15-24.dat 28/4/1999

QUASI-PEAK DATA

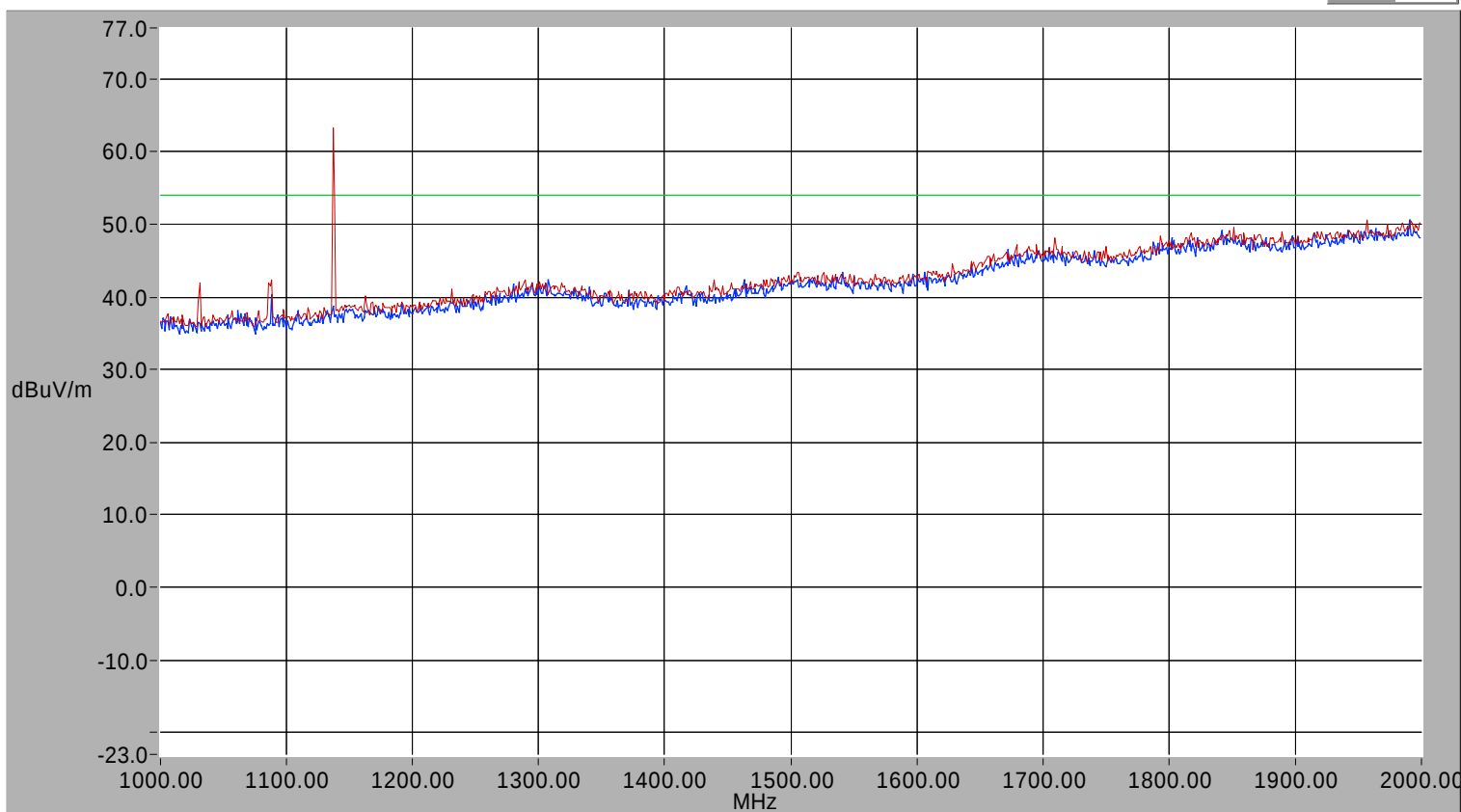
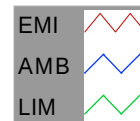
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
441.279	347	117	20.00	16.70	2.81	0.00	39.50	46.02	Pass

Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 1 - 2 GHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 19, 1999 2:56 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 8



VBW: 1.000 MHz
RBW: 300.000 kHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

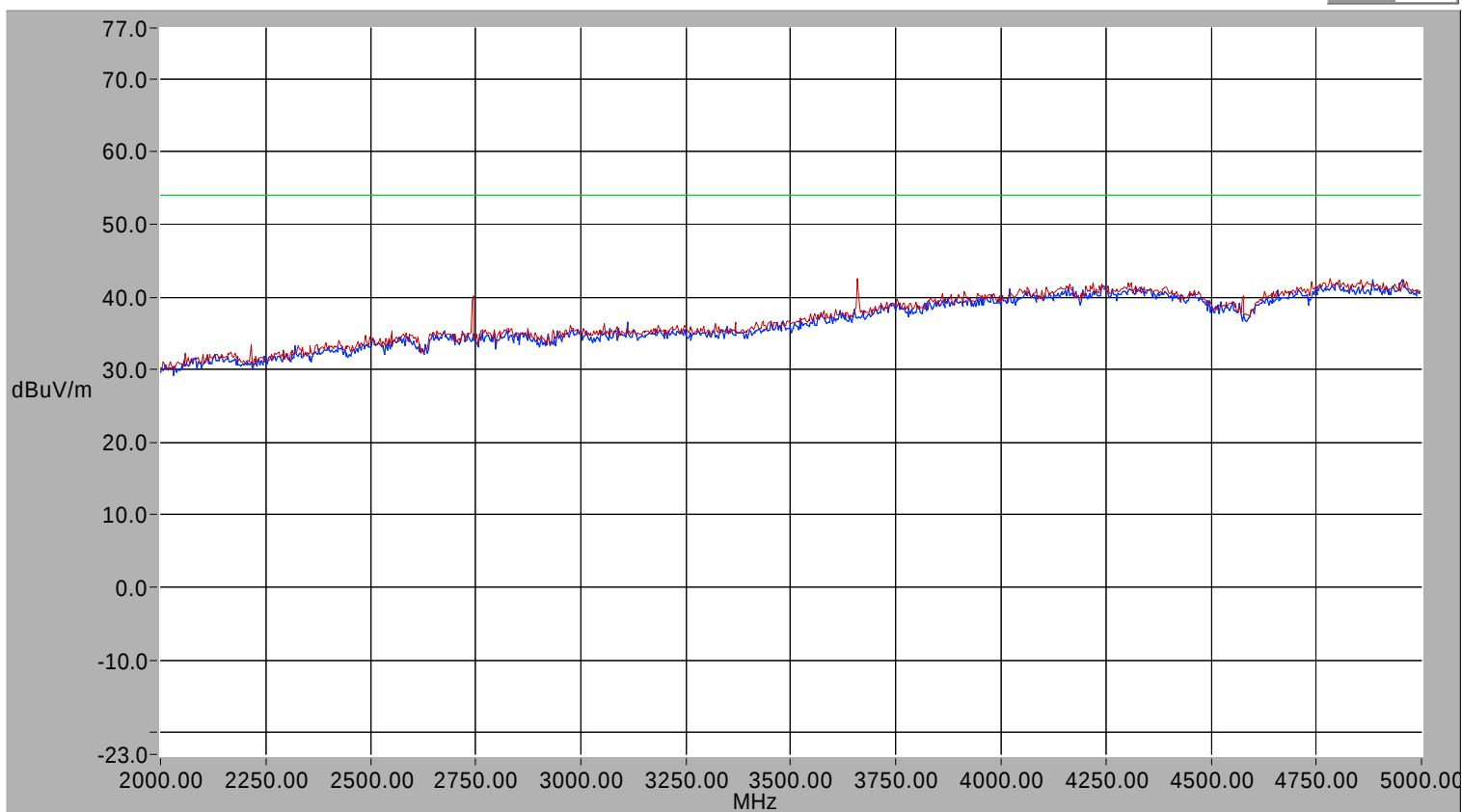
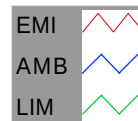
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
1137.380	-	-	-	-	-	-	-	-	Ambient

**Radiated Emissions
Vertical Polarity
FCC Part 15 Class B 3m**

Title: 2 - 5 GHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments:

Date & Time: April 22, 1999 10:05 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Verson 2.0 TX
Serial #: 001

Plot Number: 9



VBW: 100.000 kHz
RBW: 1.000 MHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

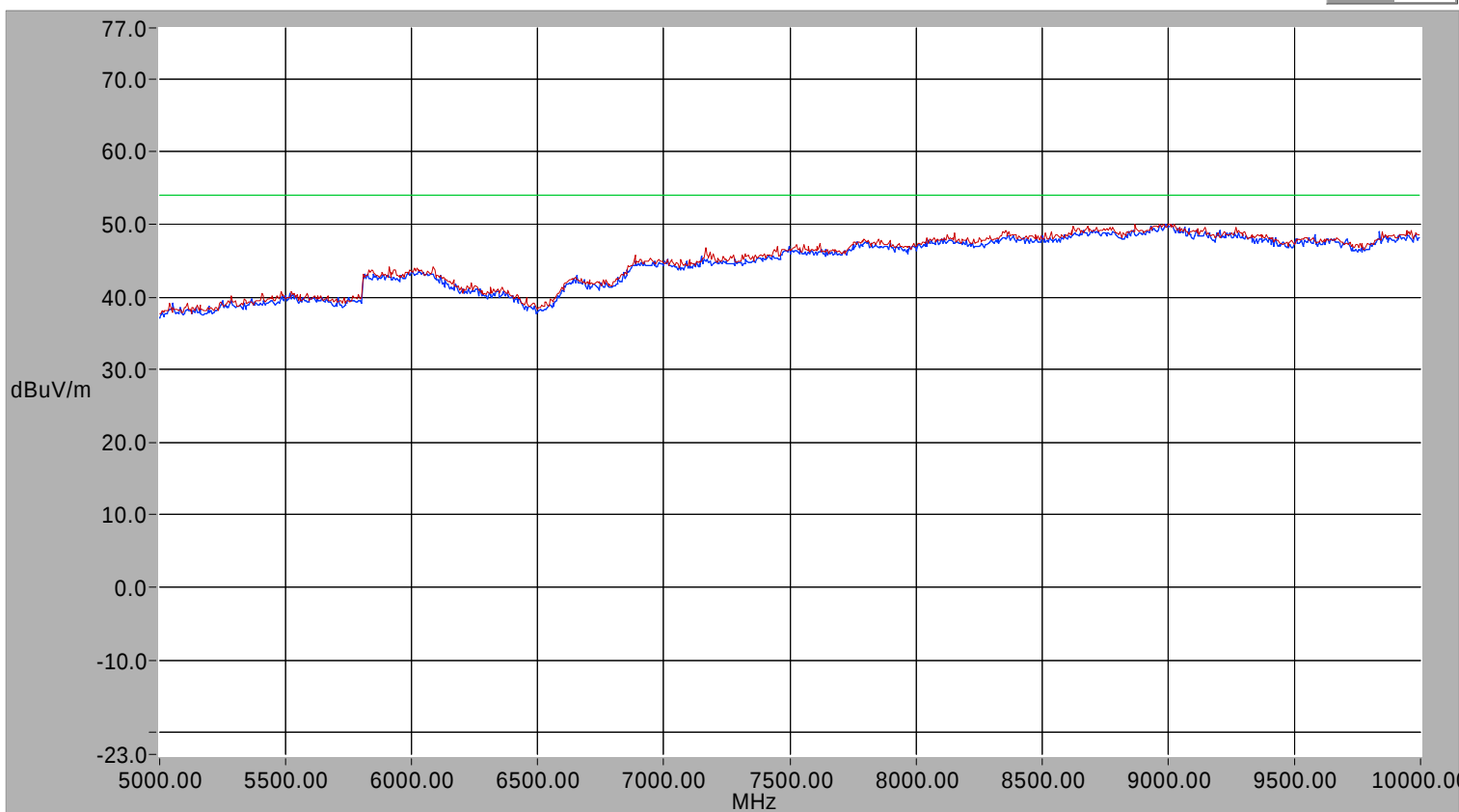
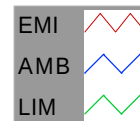
ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornv.dat 12/9/1998

**Radiated Emissions
Vertical Polarity
FCC Part 15 Class B 3m**

Title: 5 - 10 GHz
Mode of Operation: Transmit At 915.0 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments:

Date & Time: April 22, 1999 10:12 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Verson 2.0 TX
Serial #: 001

Plot Number: 10



VBW: 30.000 kHz
RBW: 1.000 MHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat	4/8/1998
zero.DAT	23/4/1997
FCC15B3.DAT	20/8/1998
Amphornv.dat	12/9/1998

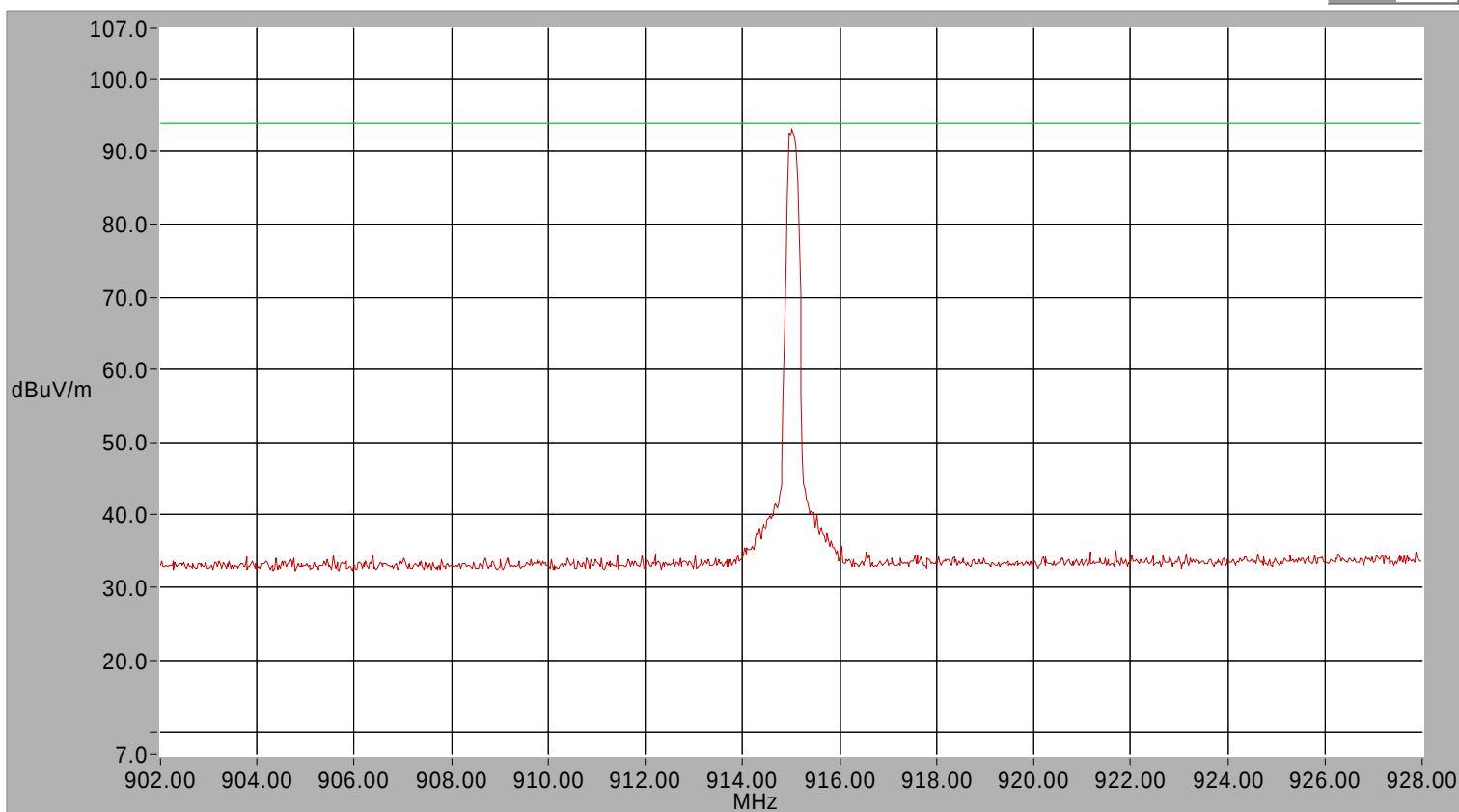
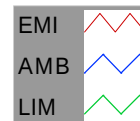
Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: Radiated Emissions
Mode of Operation: Transmit At 915 MHz
Distance: 3 meters
Technologist: Jeffrey Good
Comments: -

Date & Time: 11:54 AM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 19, 1999

Plot Number: 18



VBW: 1.000 GHz
RBW: 100.000 kHz

Sweep Time: 240.00 ms
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

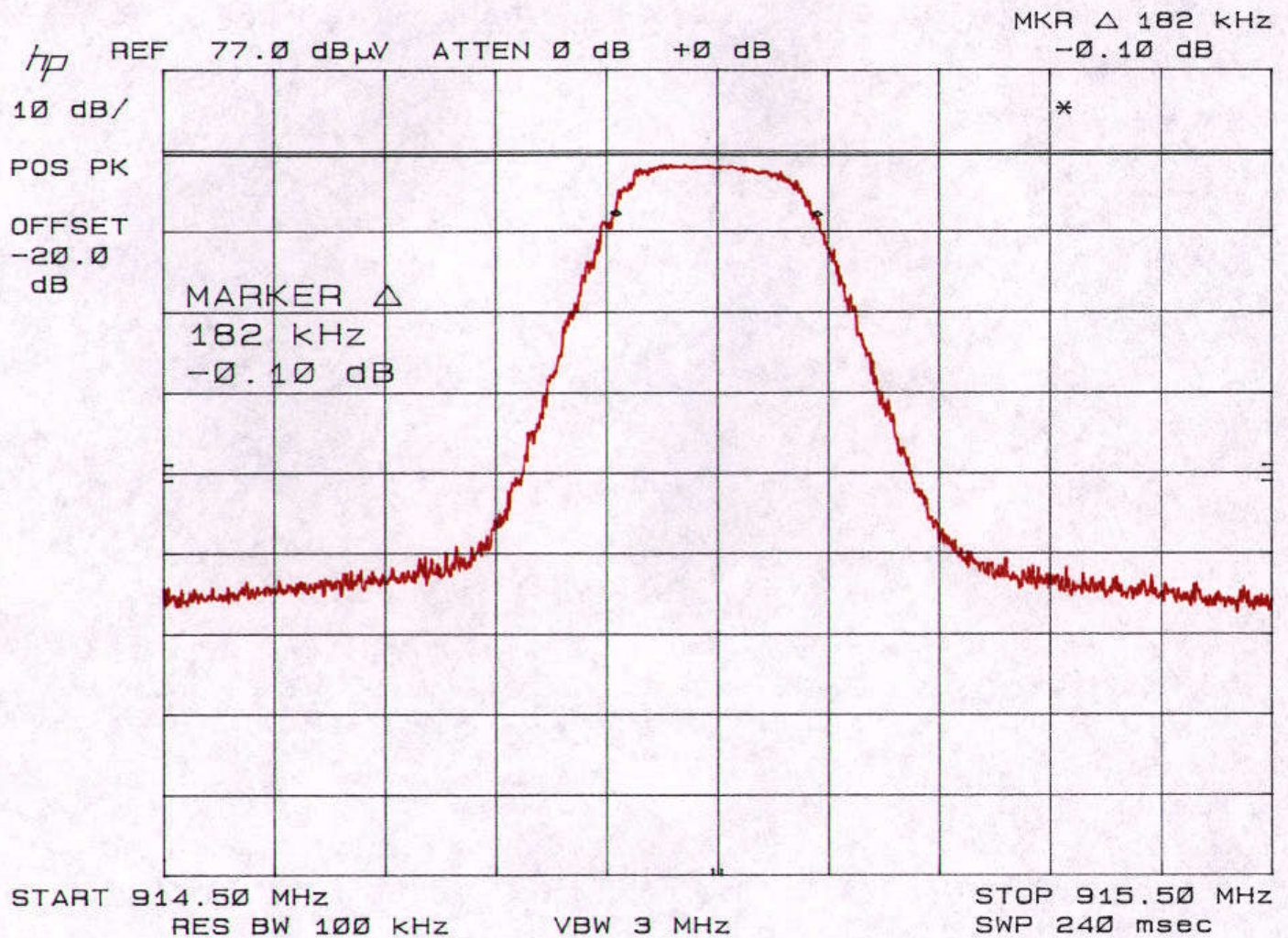
ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
Fcc15-24.dat 28/4/1999

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
914.983	138	297	63.40	23.90	4.26	0.00	91.56	93.98	Pass

19 April 1999

Plot 4
Hpc1



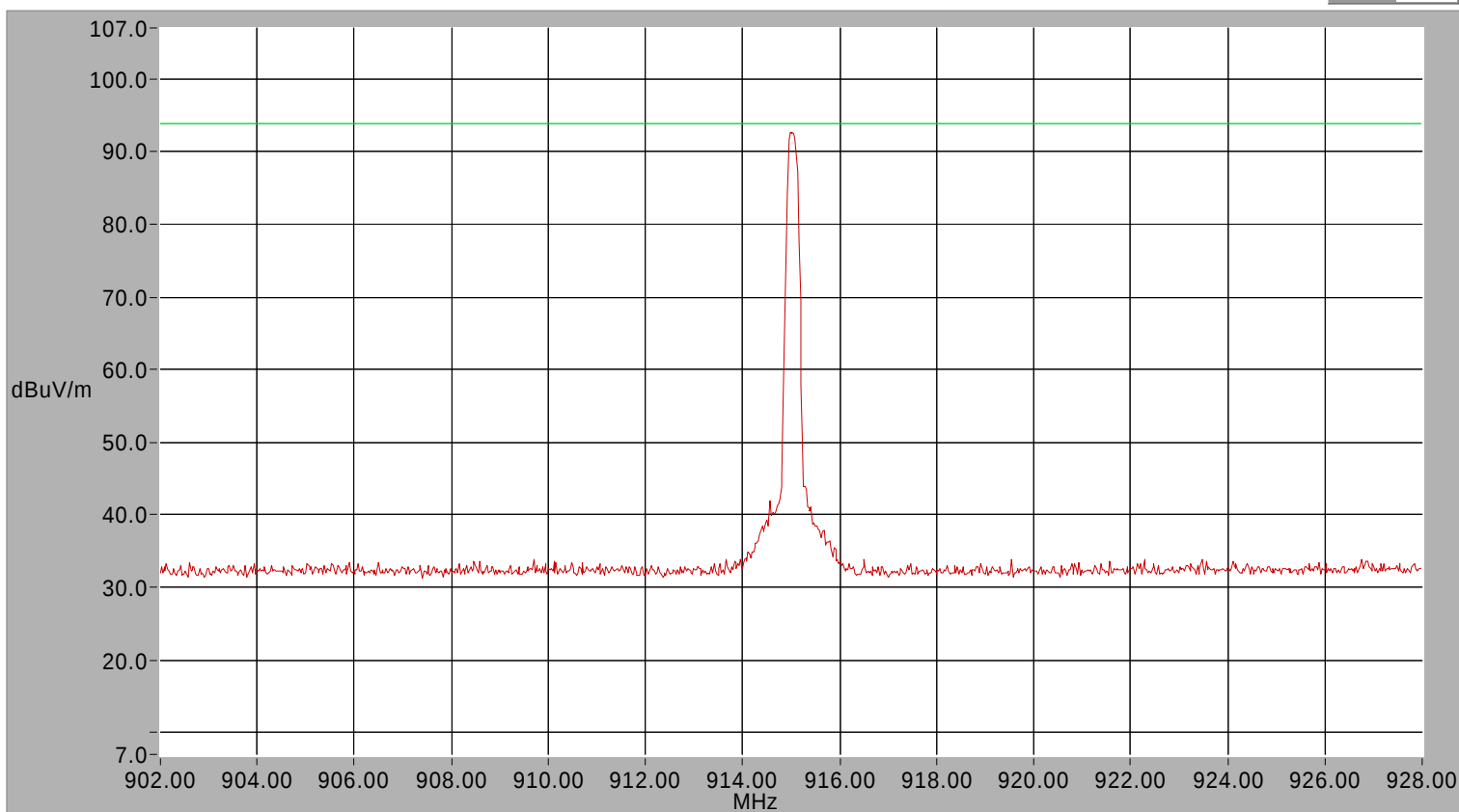
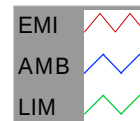
Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: Radiated Emissions
Mode of Operation: Transmit At 915 MHz
Distance: 3 meters
Technologist: Jeffrey Good
Comments: -

Date & Time: April 19, 1999
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

10:57 AM

Plot Number: 17



VBW: 1.000 GHz
RBW: 100.000 kHz

Sweep Time: 240.00 ms
Ref. Lev: 77.00 dBuV/m

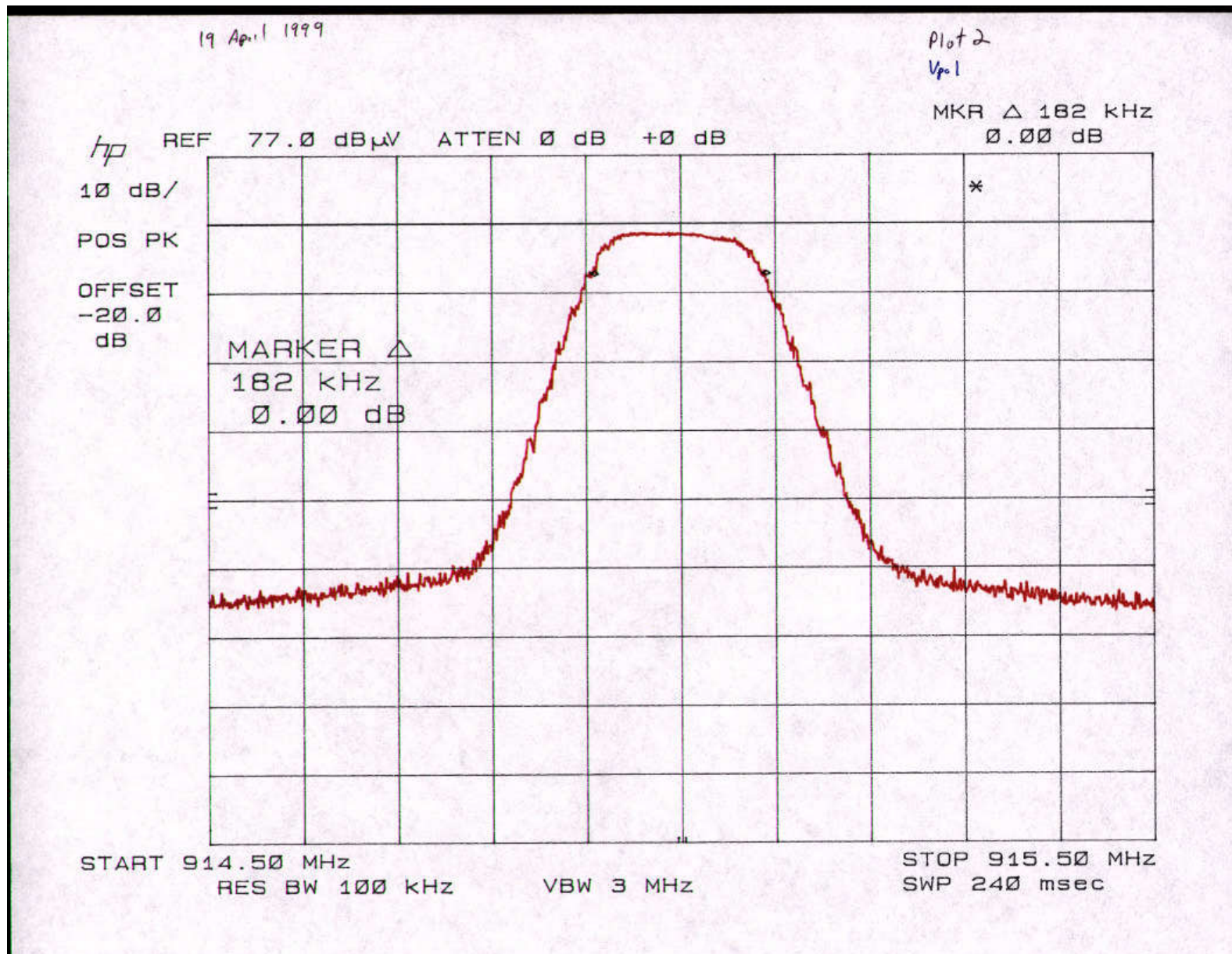
PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
Fcc15-24.dat 28/4/1999

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
914.984	93	113	65.00	22.87	4.26	0.00	92.13	93.98	Pass



Appendix 4

**Test Result Data Forms
FOR
E-Zone Networks Inc.'s
E-9000 Tower with Version 2 Transmitter
TO DETERMINE COMPLIANCE WITH
FCC Part 15 Subpart C, Radiated Emissions
When Transmitting At 927.8.0 MHz**

PROJECT NO. 308A08

TEST COMPLETED: 22 April, 1999

Client: E-Zone Networks Inc.
Don La Font
520 - 5 Avenue SW
Calgary, Alberta
T2P 3R7

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This testing was done using a E-9000 Tower with Version 2 Transmitter.
This Test was done using FCC Part 15 Subpart C specifications.

There were no variations to the test method.

The E-9000 Tower with Version 2 Transmitter produced by E-Zone Networks Inc., **PASSED** FCC Part 15 Subpart C radiated emission in the configuration described in section 2.4, while transmitting at 927.8 MHz.

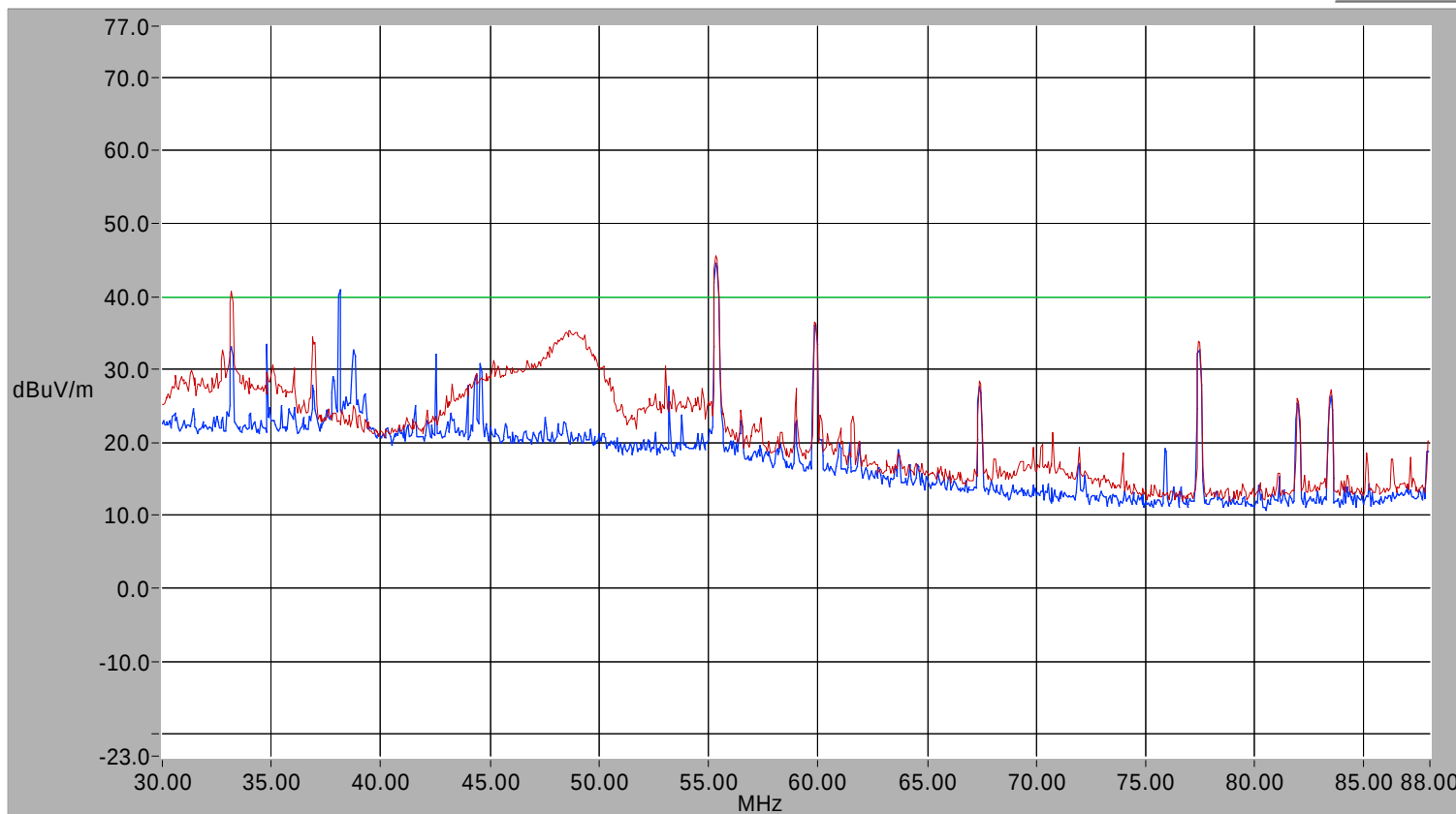
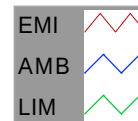
The Equipment Under Test is considered to have passed if the radiated field power does not exceed the limit of the appropriate standard as shown in section 3 of this report.

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 30 - 88 MHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 2:20 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 40



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

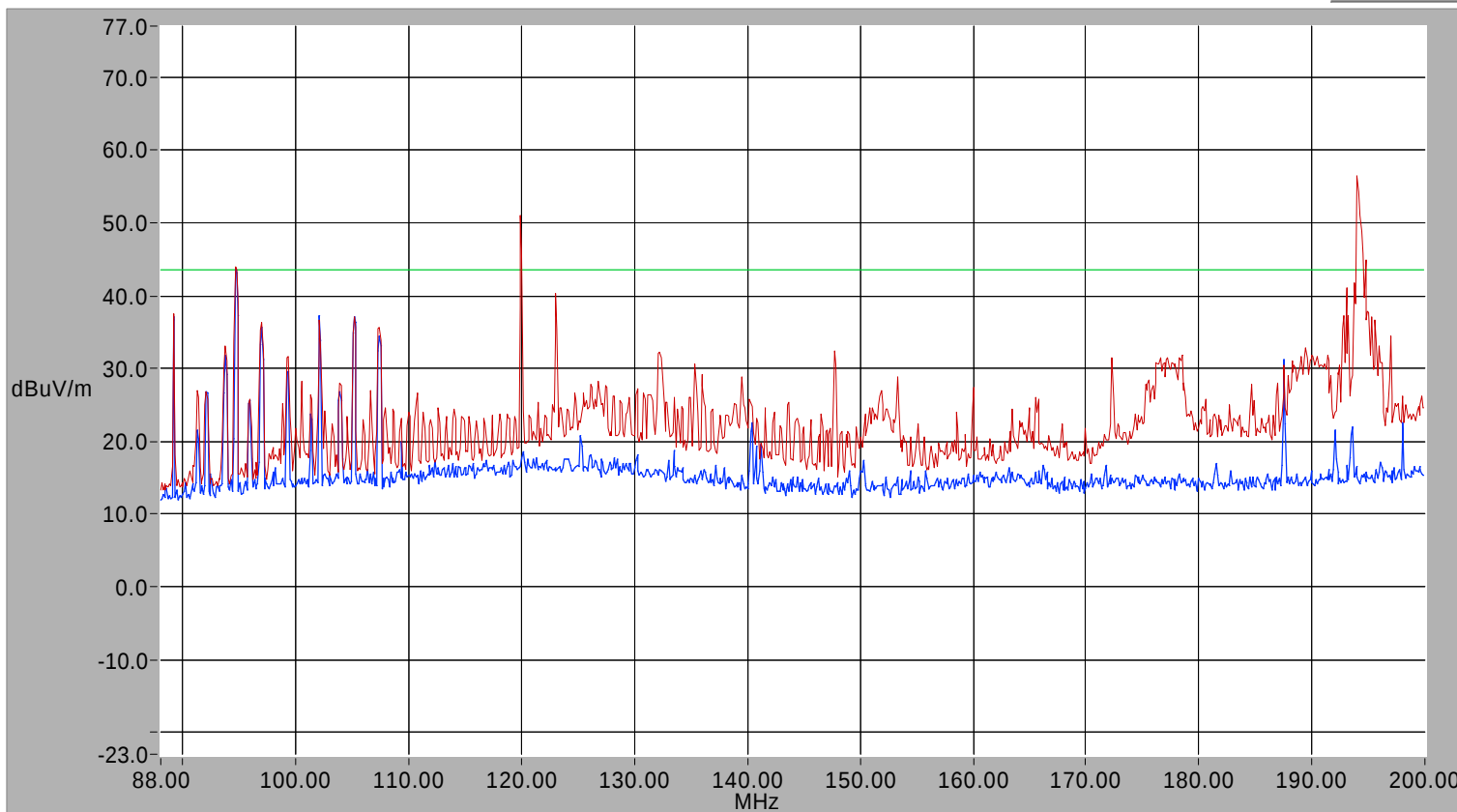
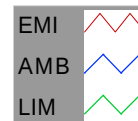
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
49.183	340	252	15.40	16.24	0.98	0.00	32.63	40.00	Pass

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 88 - 200 MHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 2:44 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 41



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
119.278	-	-	-	-	-	-	-	-	Ambient
122.898	287	234	27.70	12.90	1.33	0.00	41.93	43.52	Pass
193.554	74	137	3.20	11.15	1.70	0.00	16.05	43.52	Pass

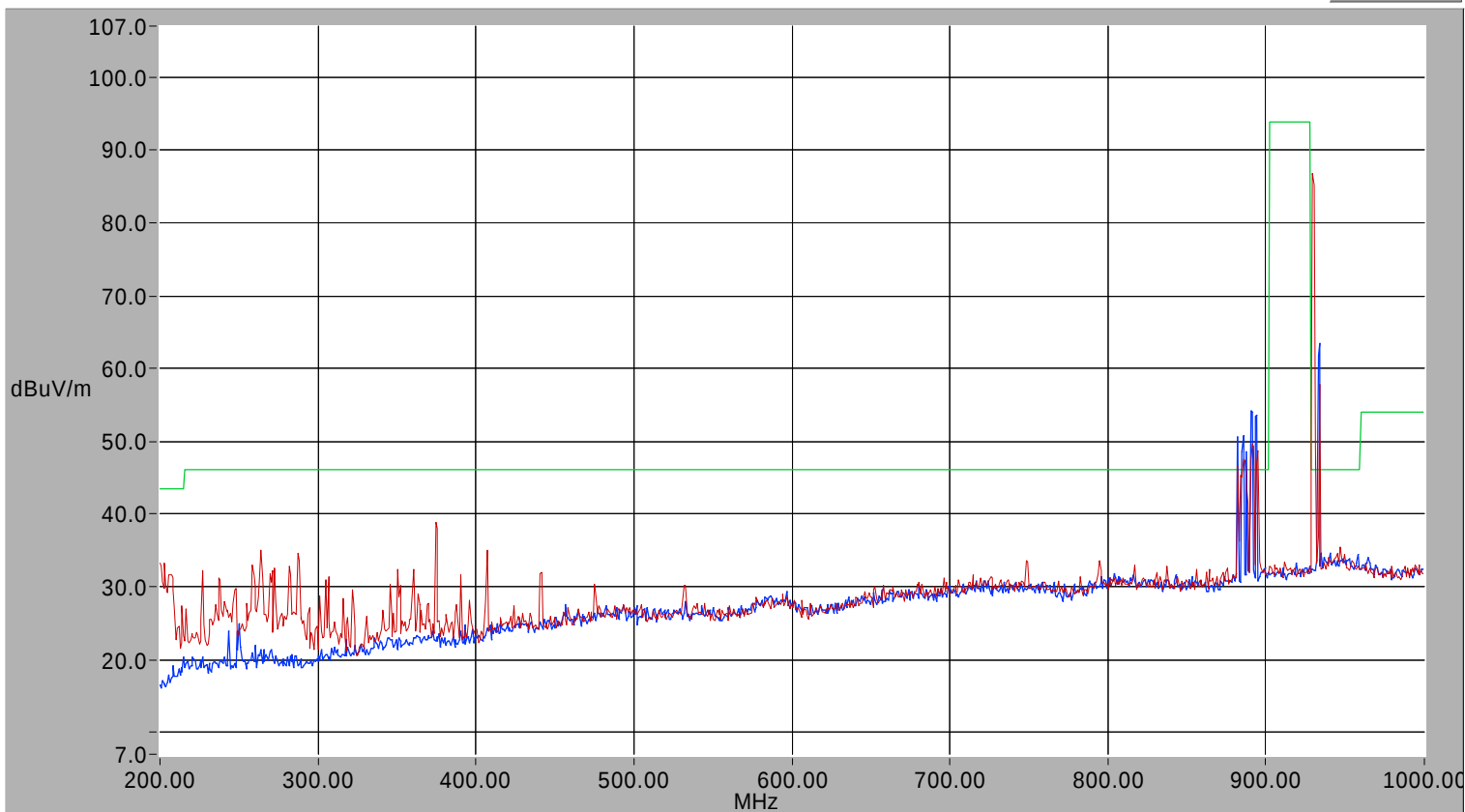
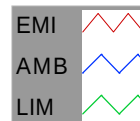
Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 200 - 1000 MHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 2:57 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 20, 1999

Plot Number: 42



VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
Fcc15-24.dat 28/4/1999

QUASI-PEAK DATA

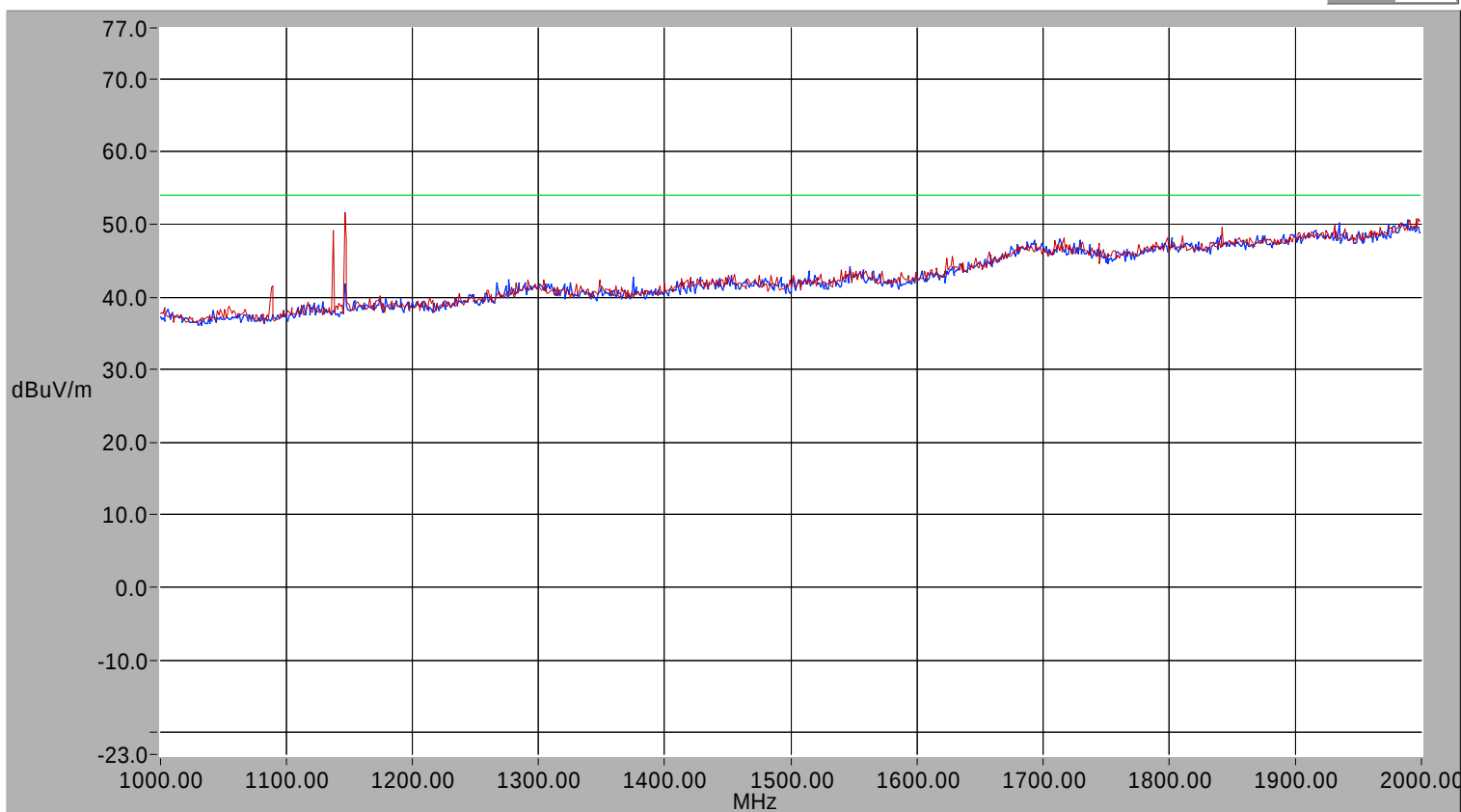
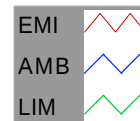
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
373.370	103	113	24.20	15.98	2.60	0.00	42.78	46.02	Pass

Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 1 - 2 GHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 19, 1999 2:21 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 43



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

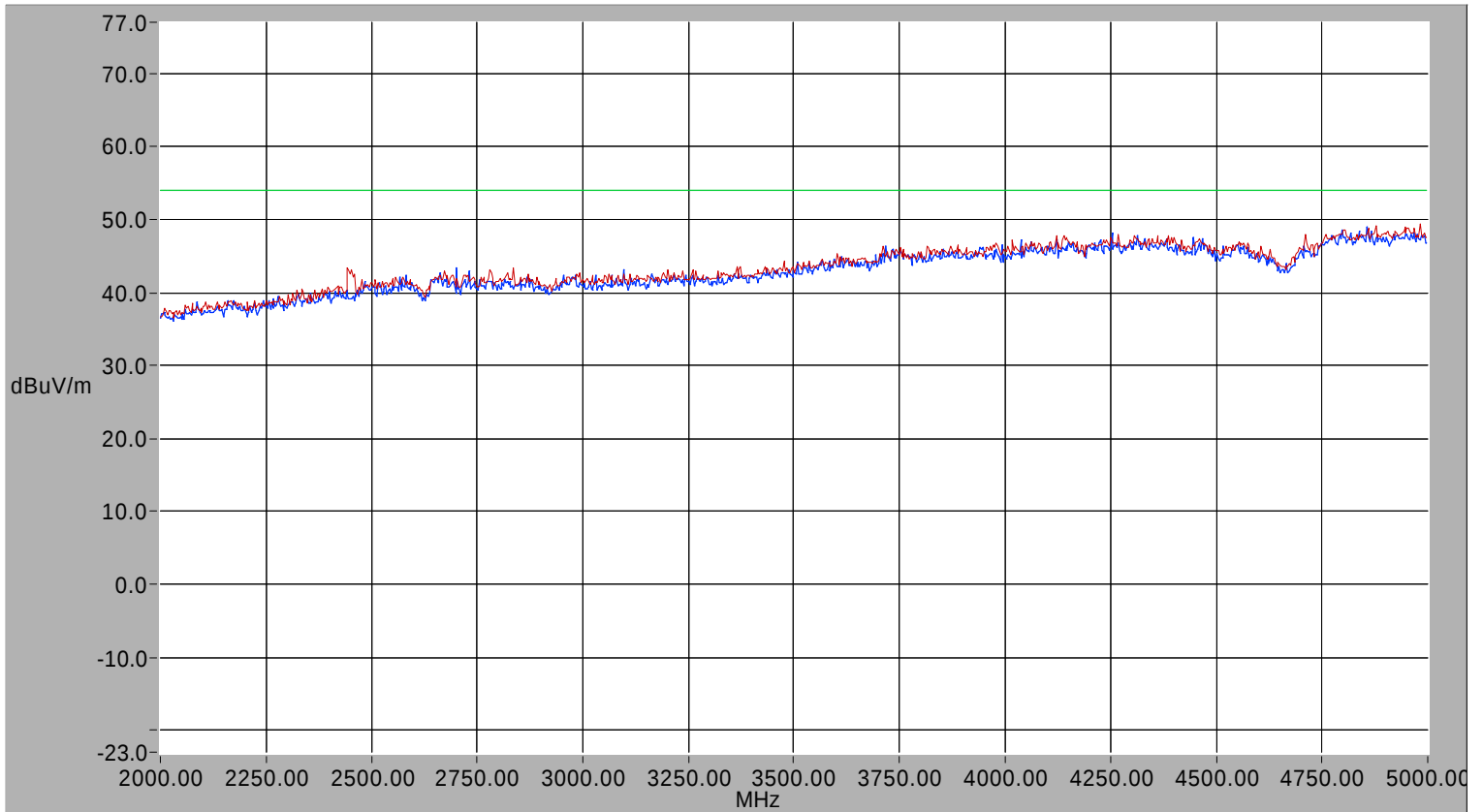
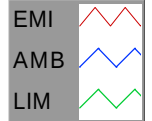
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
1843.000	-	-	-	-	-	-	-	-	Ambient
1144.840	-	-	-	-	-	-	-	-	Ambient

**Radiated Emissions
Horizontal Polarity
FCC Part 15 Class B 3m**

Title: 2 - 5 GHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 3:26 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 44



VBW: 3.000 MHz
RBW: 1.000 MHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

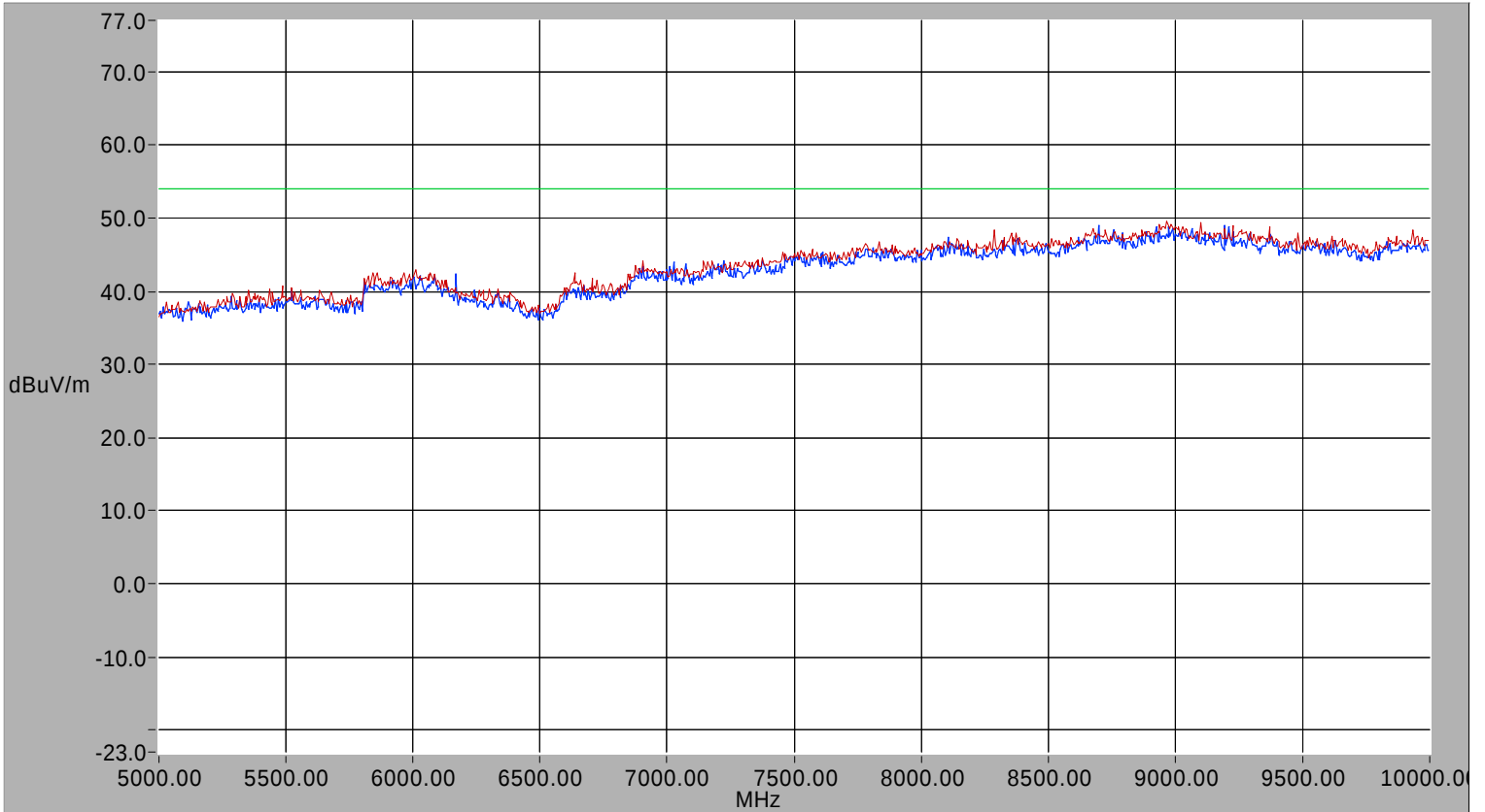
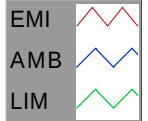
ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornh.dat 12/9/1998

**Radiated Emissions
Horizontal Polarity
FCC Part 15 Class B 3m**

Title: 5 - 10 GHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 3:39 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Verson 2.0 TX
Serial #: 001

Plot Number: 45



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornh.dat 12/9/1998

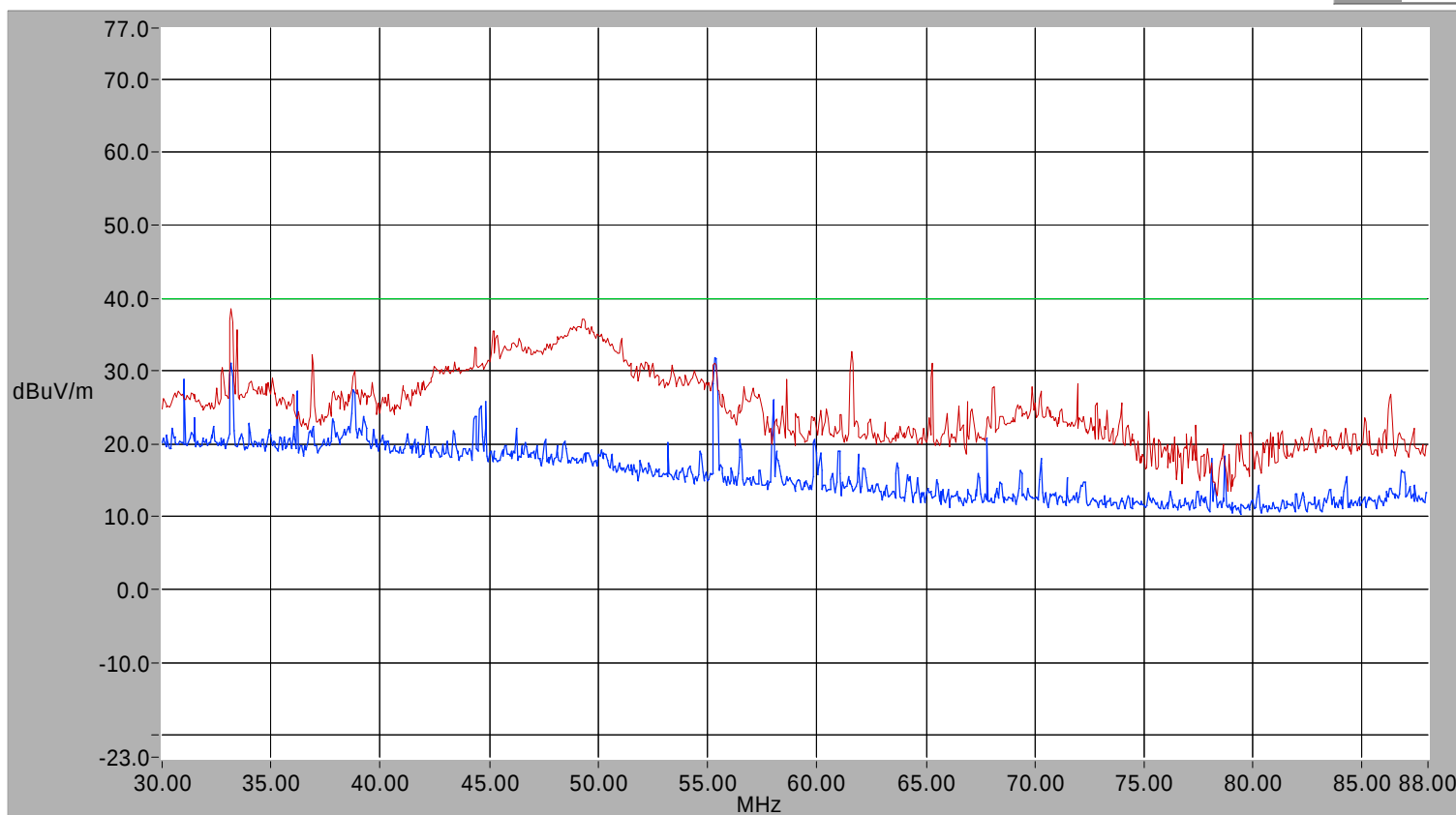
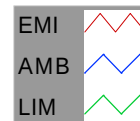
Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 30 - 88 MHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

1:27 PM

Plot Number: 34



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
33.180	127	256	19.10	16.67	0.80	0.00	36.57	40.00	Pass
49.176	197	113	16.90	13.85	0.98	0.00	31.74	40.00	Pass

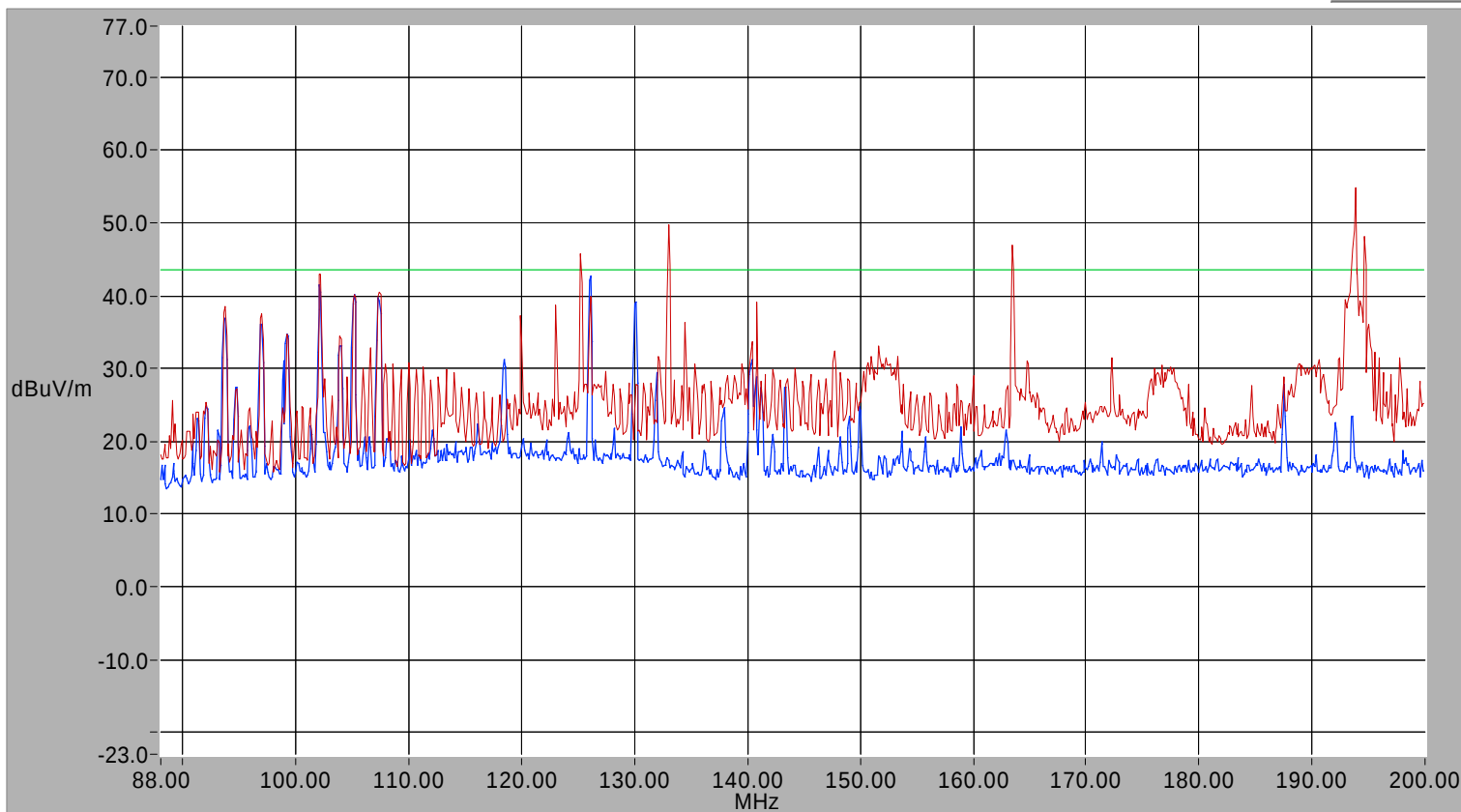
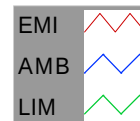
Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 88 - 200 MHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 1:47 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 20, 1999

Plot Number: 35



VBW: 300.000 kHz Sweep Time: 50.00 ms PR Atten: 0.00 dB
RBW: 100.000 kHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

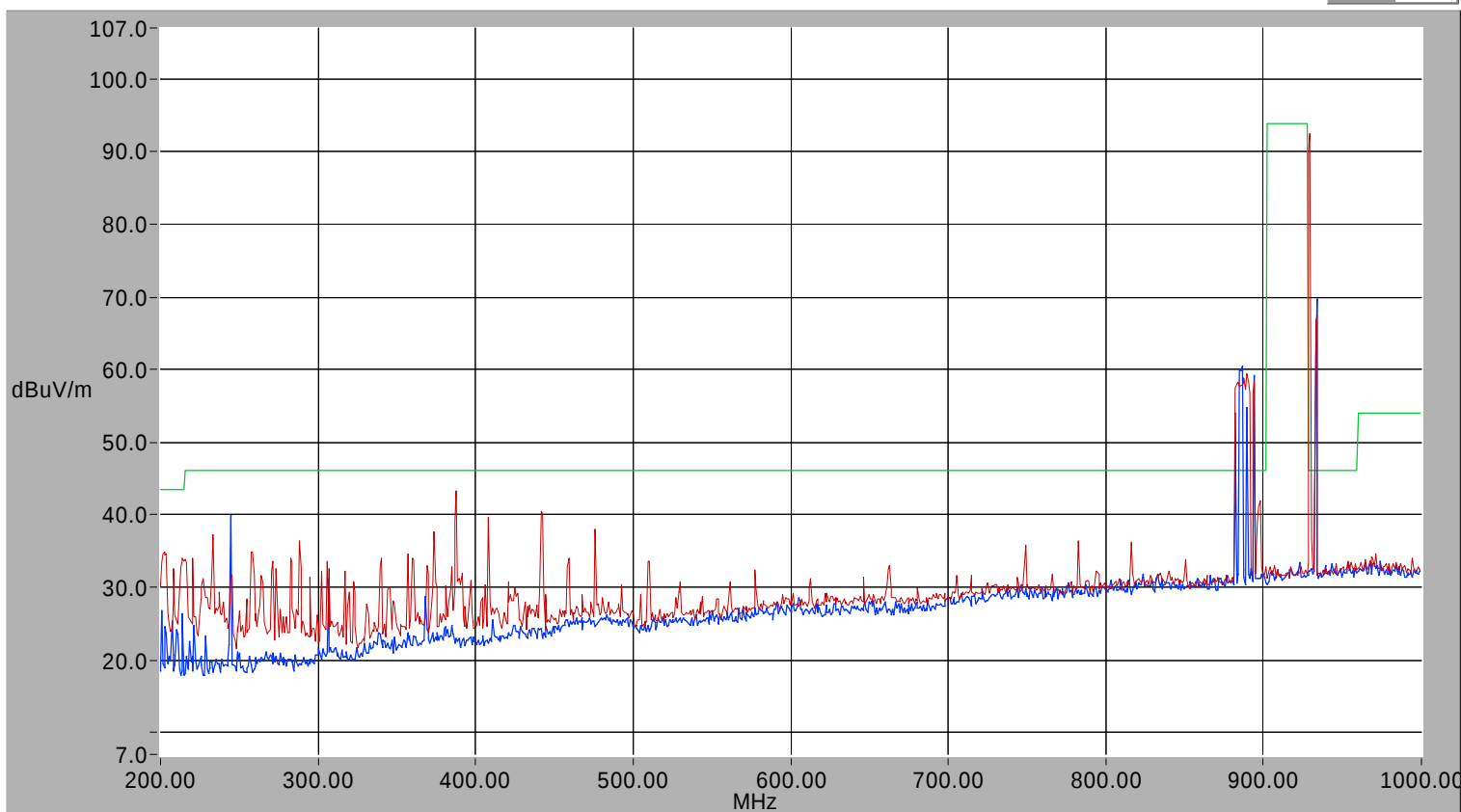
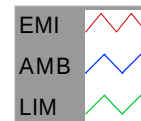
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
120.076	-	-	-	-	-	-	-	-	Ambient
125.930	-	-	-	-	-	-	-	-	Ambient
133.286	-	-	-	-	-	-	-	-	Ambient
164.464	-	-	-	-	-	-	-	-	Ambient
122.900	351	113	24.60	12.90	1.33	0.00	38.83	43.52	Pass
193.210	153	210	6.00	11.10	1.70	0.00	18.80	43.52	Pass

Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 200 - 1000 MHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 2:03 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 36



VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
Fcc15-24.dat 28/4/1999

QUASI-PEAK DATA

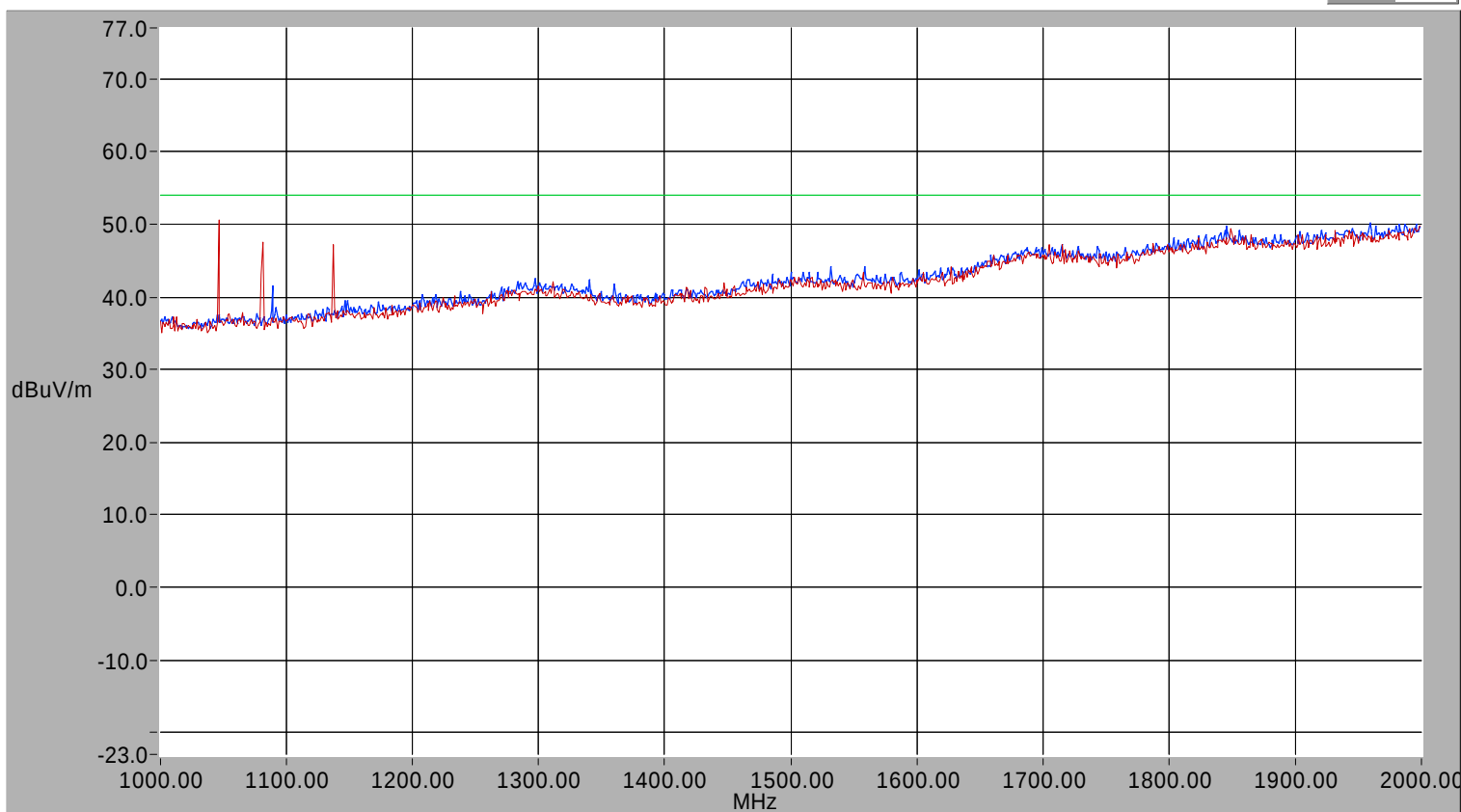
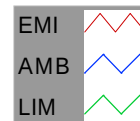
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
389.220	357	120	1.10	16.13	2.65	0.00	19.88	46.02	Pass
441.279	346	113	19.90	16.70	2.81	0.00	39.40	46.02	Pass

Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 1 - 2 GHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 19, 1999 2:37 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 37



VBW: 1.000 MHz
RBW: 300.000 kHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
FCC15B3.DAT 20/8/1998

QUASI-PEAK DATA

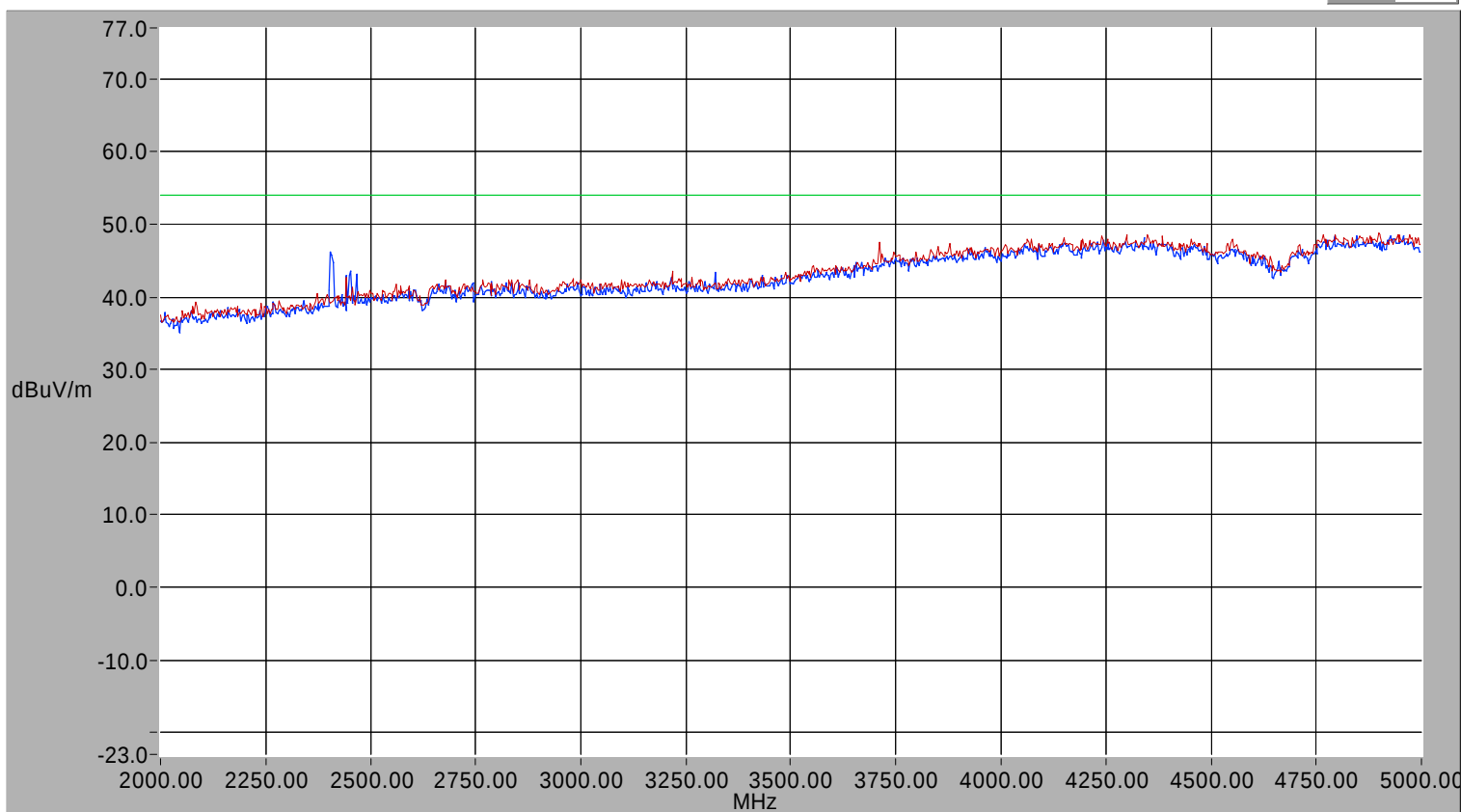
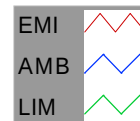
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
1040.760	-	-	-	-	-	-	-	-	Ambient
1081.880	-	-	-	-	-	-	-	-	Ambient
1138.280	-	-	-	-	-	-	-	-	Ambient

Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 5 - 10 GHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 3:48 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

Plot Number: 38



VBW: 3.000 MHz
RBW: 1.000 MHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
zero.DAT 23/4/1997
FCC15B3.DAT 20/8/1998
Amphornv.dat 12/9/1998

QUASI-PEAK DATA

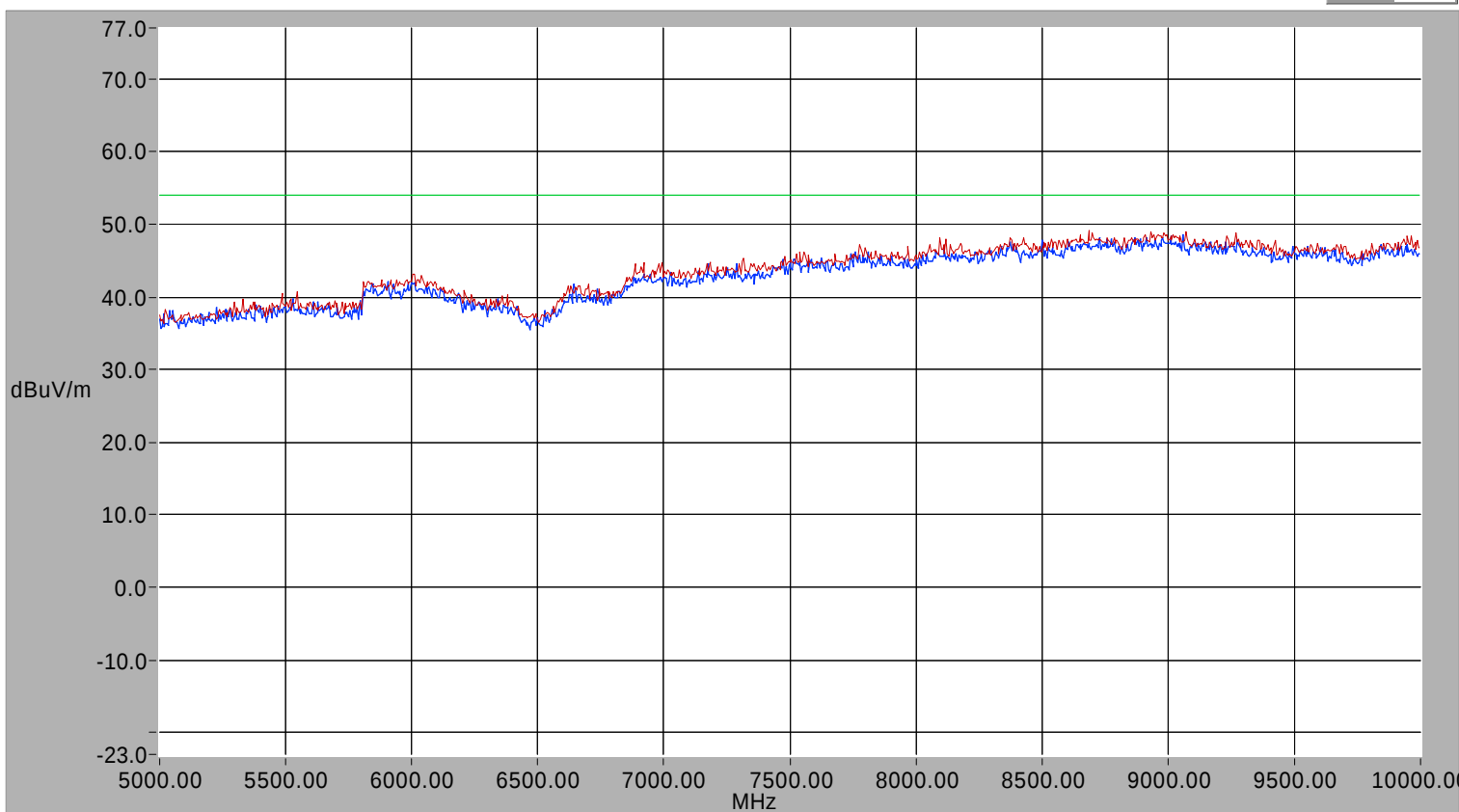
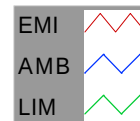
Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
3711.030	357	145	31.10	0.00	8.85	-3.04	36.90	53.98	Pass

**Radiated Emissions
Vertical Polarity
FCC Part 15 Class B 3m**

Title: 5 - 10 GHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: April 20, 1999 4:20 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Verson 2.0 TX
Serial #: 001

Plot Number: 39



VBW: 300.000 kHz
RBW: 100.000 kHz

Sweep Time: Auto
Ref. Lev: 77.00 dBuV/m

PR Atten: 0.00 dB
An Atten: 0.00 dB

Associated Files

ofts3m.dat	4/8/1998
zero.DAT	23/4/1997
FCC15B3.DAT	20/8/1998
Amphornv.dat	12/9/1998

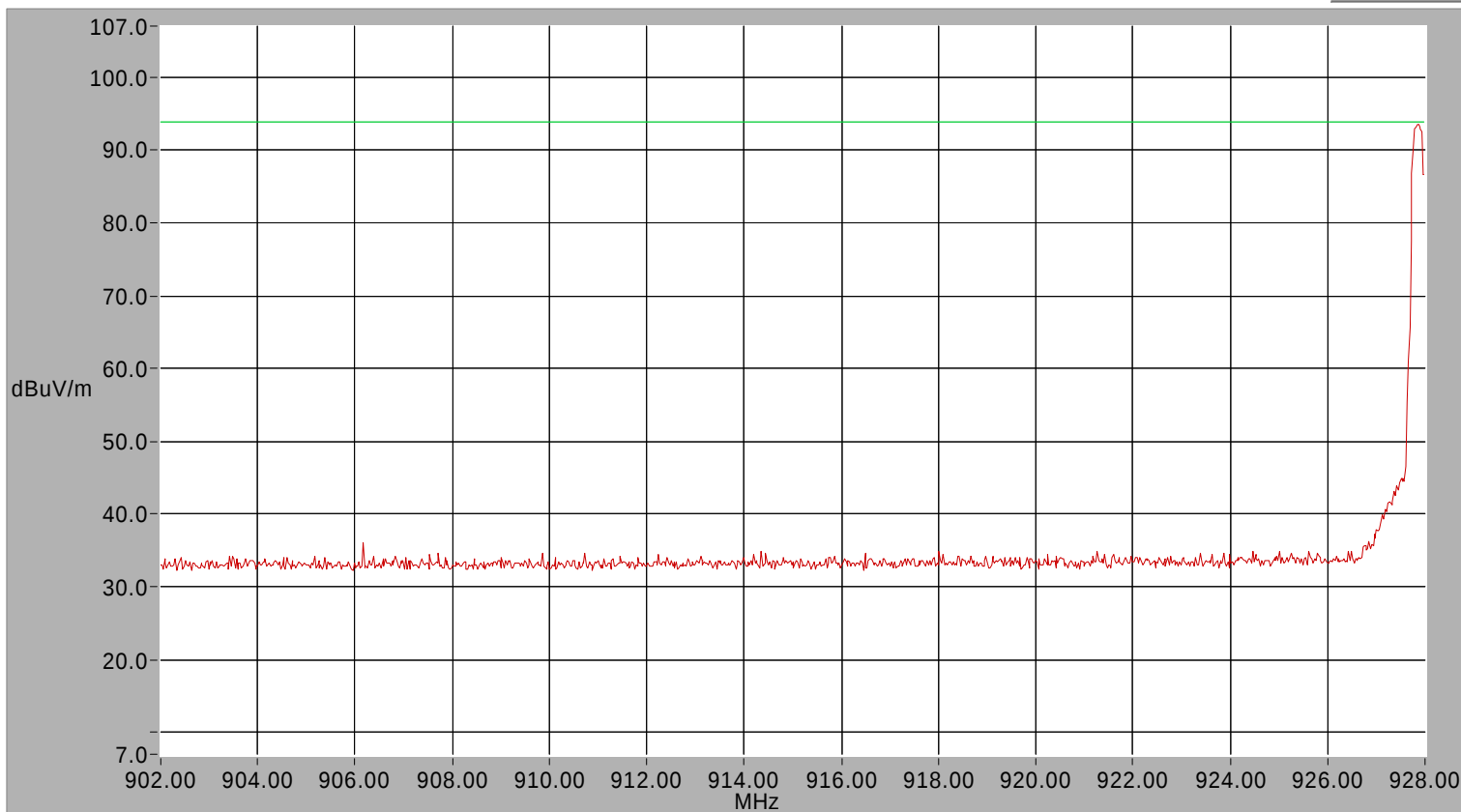
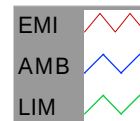
Radiated Emissions Horizontal Polarity FCC Part 15 Class B 3m

Title: 902 - 928 MHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 2:02 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 19, 1999

Plot Number: 47



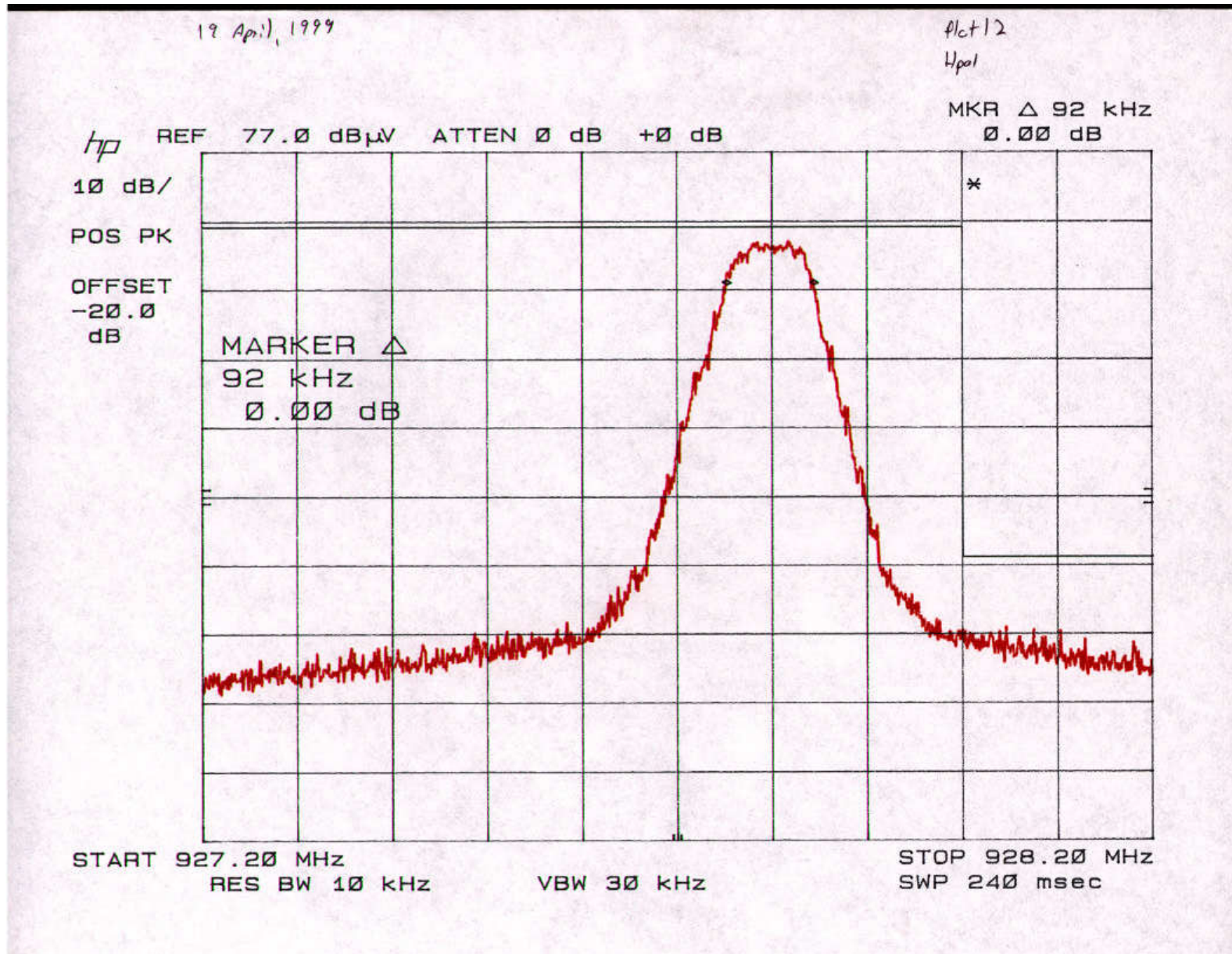
VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318h3.dat 23/4/1998
Fcc15-24.dat 28/4/1999

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
927.797	140	277	63.20	24.30	4.31	0.00	91.81	93.98	Pass



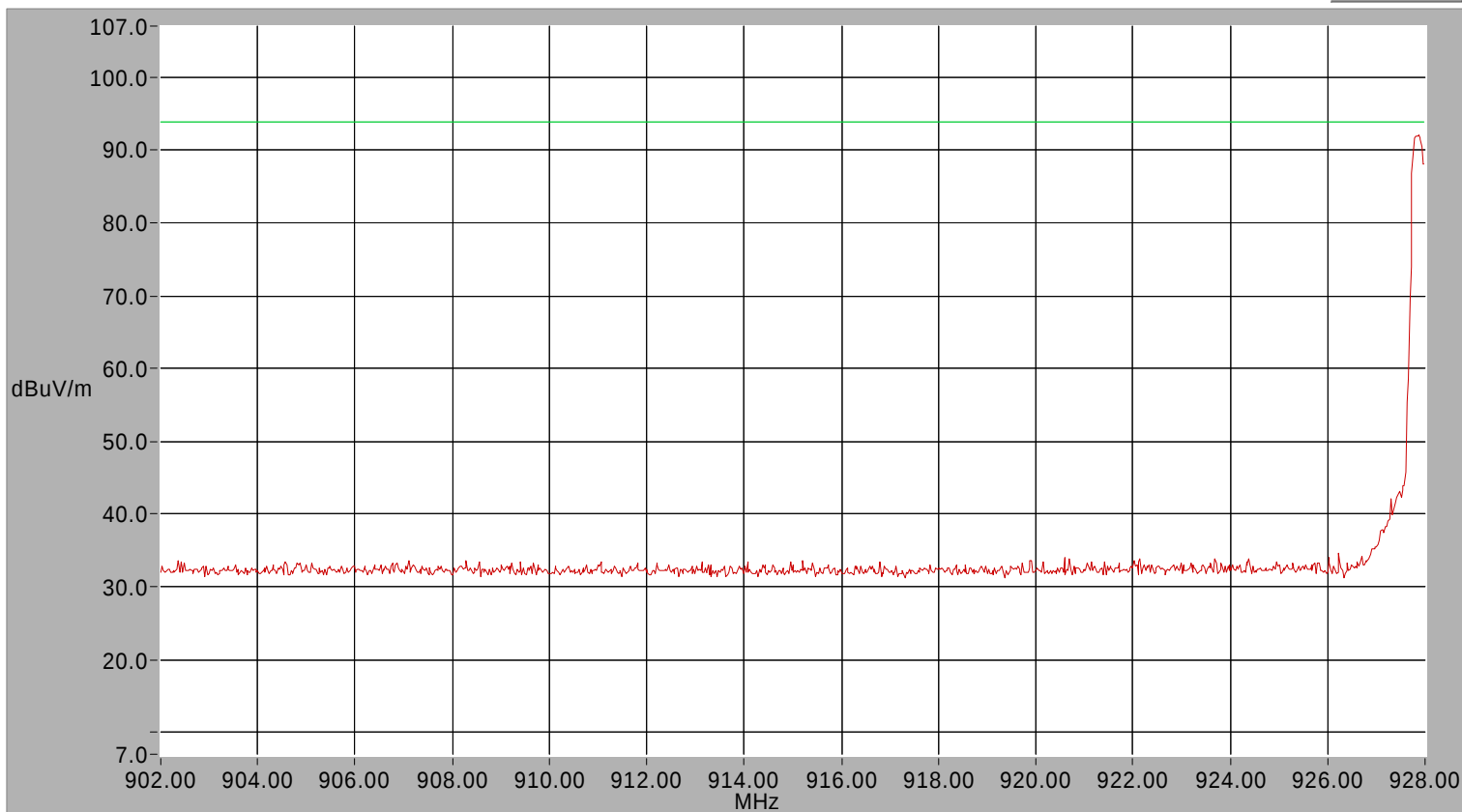
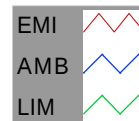
Radiated Emissions Vertical Polarity FCC Part 15 Class B 3m

Title: 902 - 928 MHz
Mode of Operation: Transmit At 927.8 MHz
Distance: 3 meters
Technologist: Jeffery Taylor
Comments: -

Date & Time: 1:45 PM
Project #: 308A08
Company: E-Zone
Product: Tower with Version 2.0 TX
Serial #: 001

April 19, 1999

Plot Number: 46



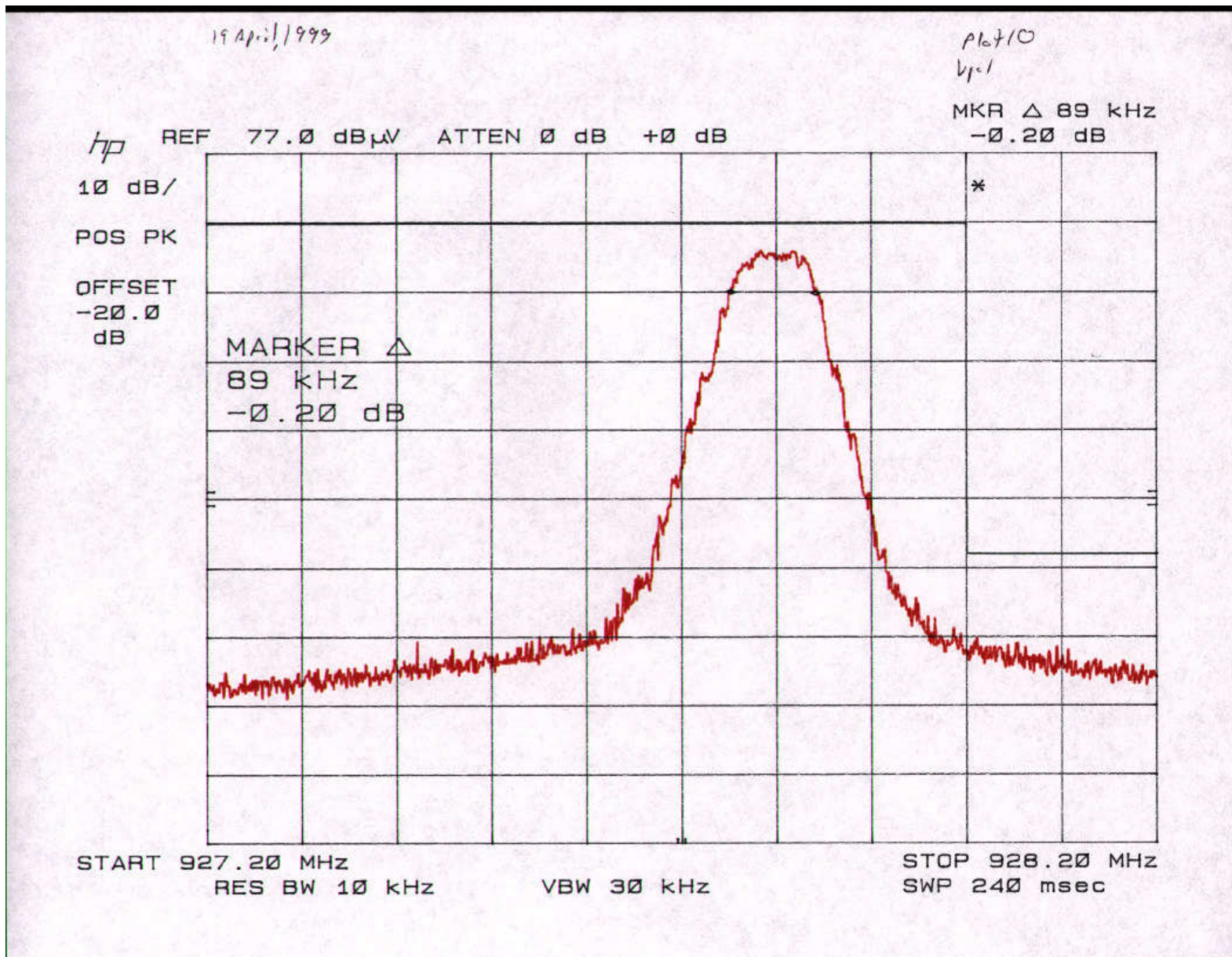
VBW: 300.000 kHz Sweep Time: 240.00 ms PR Atten: 0.00 dB
RBW: 1.000 MHz Ref. Lev: 77.00 dBuV/m An Atten: 0.00 dB

Associated Files

ofts3m.dat 4/8/1998
04318v3.dat 23/4/1998
Fcc15-24.dat 28/4/1999

QUASI-PEAK DATA

Freq (MHz)	Azimuth (deg)	Height (cm)	SA Lvl (dBuV/m)	AF (dB)	CF (dB)	OF (dB)	Lvl (dBuV/m)	Limit (dBuV/m)	P/F
927.796	91	117	64.80	23.01	4.31	0.00	92.12	93.98	Pass



END OF DOCUMENT