

3 September, 1999

SUBJECT: FCC CONFIRMATION NUMBER **EA94035** (PART 22 AND 15 TESTING)

This letter is to verify that the following testing was performed;

Product: Merlin™  
Serial number: 01.6D  
FCC ID number: NBZNRM-6831  
Standard tested to: CFR 47 Part 22, 15  
Date performed: August 27-28, 1999  
Lab: MPB Technologies' "Electronics Test Centre" (Airdrie)  
Technologist: Ian Guldborg & Jeffery Taylor

**The following is the ERP measurements**

Frequency (MHz)	Polarity	Power into Dipole (dBm)	Azimuth (degrees)	Height of Rx antenna (cm)
824.04	Vertical	22.6	201	161
836.5195	Vertical	23.3	325	157
848.97	Vertical	26.4	207	156
824.04	Horizontal	16.8	187	167
836.5195	Horizontal	18.2	47	284
848.97	Horizontal	15.8	346	273

**The following data was used for calculating the Part 22 limits**

Frequency (MHz)	Polarity	Azimuth (degrees)	Height of Rx antenna (cm)	Level Measured at Spectrum Analyzer	C±45 kHz * limit
824.04	Vertical	201	161	-13.6 dBm	84.6
836.5195	Vertical	325	157	-14.1 dBm	83.4
848.97	Vertical	207	156	-13.4 dBm	80.8
824.04	Horizontal	187	167	-16.6 dBm	87.1
836.5195	Horizontal	47	284	-18.0 dBm	84.2
848.97	Horizontal	346	273	-16.9 dBm	87.6

\*see attached sample calculation

Sincerely

Jeffery Taylor, T.T.  
EMI/EMC Test Technologist

Sample Calculation of Part 22 Emissions Limit  
(Vertical Polarization, 824.04MHz)

**Calculation of Carrier Field strength at measuring antenna:**

Carrier power measured at spectrum analyser = -13.6 dBm

Cable loss from measuring antenna to spectrum analyser = 3.8 dB

Carrier Power at measuring antenna port = -13.6 dBm + 3.8 dB = -9.8 dBm

Carrier Voltage at measuring antenna port = -9.8 dBm + 107dBuV/mW = 97.2 dBuV  
(for 50 ohm load)

Antenna factor at 824 MHz = 23 dB/m

Carrier Field strength at measuring antenna = 97.2 dBuV + 23 dB/m = 120.2 dBuV/m

**Calculation of Attenuation requirement for Part 22:**

Measured ERP of Carrier = 22.6 dBm = 0.182 W

Required attenuation below carrier per Part 22 specification = 43 + 10log(P) = 35.6 dB

**Emission Limit for Field Strength Measurements:**




(Carrier Field strength at measuring antenna) – (required attenuation)  
= 120.2 dBuV/m – 35.6 dB = 84.6 dBuV/m

**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

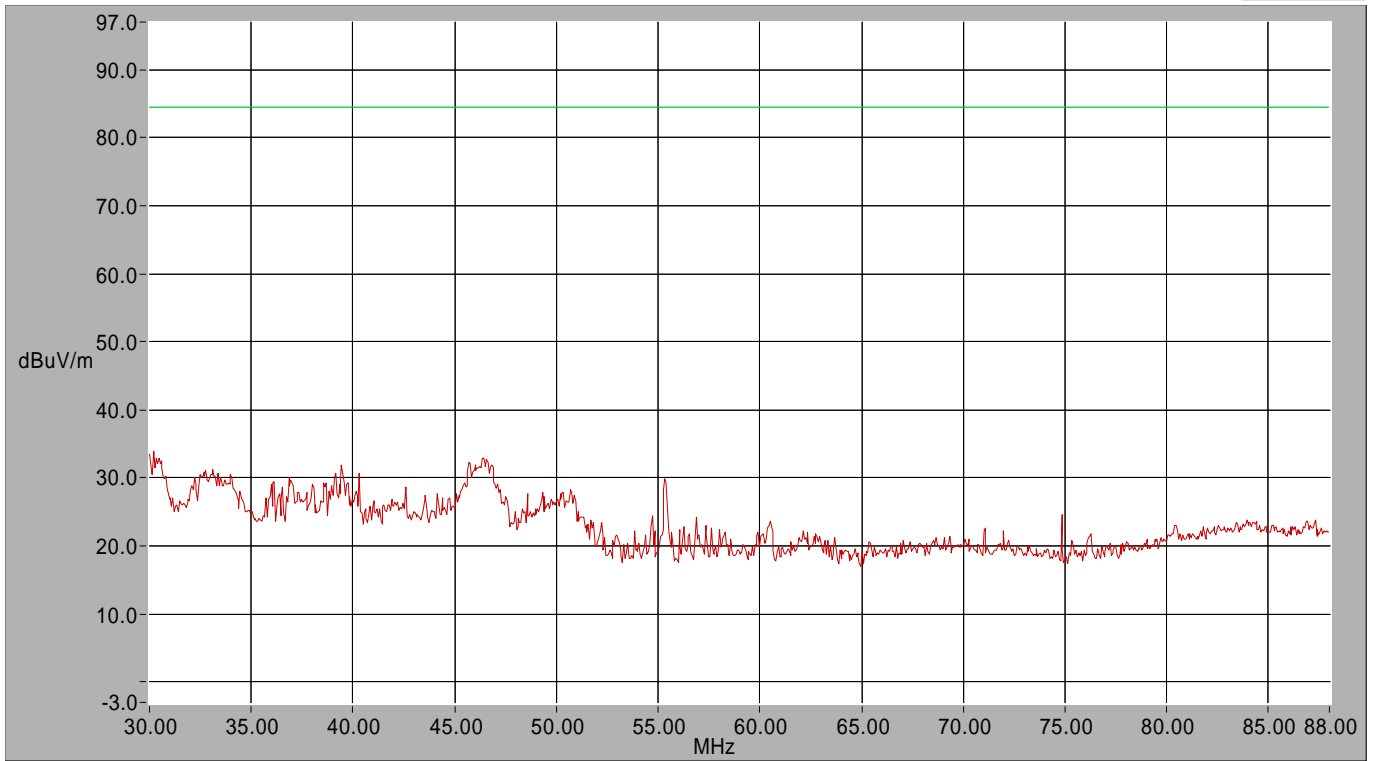
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldberg  
Comments: Channel 991 (824.04 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:29 PM

EMI   
AMB   
LIM 

Plot Number: 13



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	16/6/1999
04318v3.dat	23/4/1998
limit.dat	2/9/1999

**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

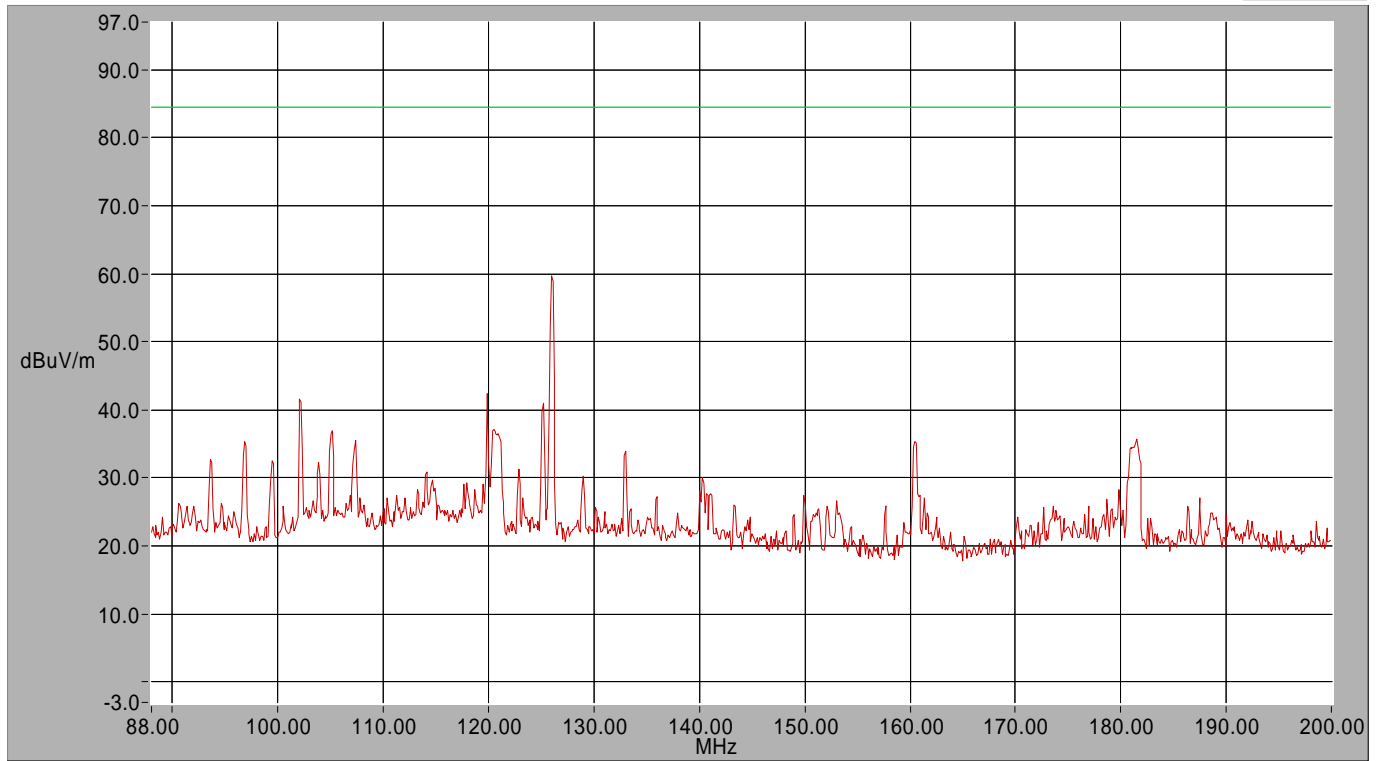
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 991 (824.04 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:25 PM

EMI   
AMB   
LIM 

Plot Number: 2



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	16/6/1999
04318v3.dat	23/4/1998
limit.dat	2/9/1999




**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

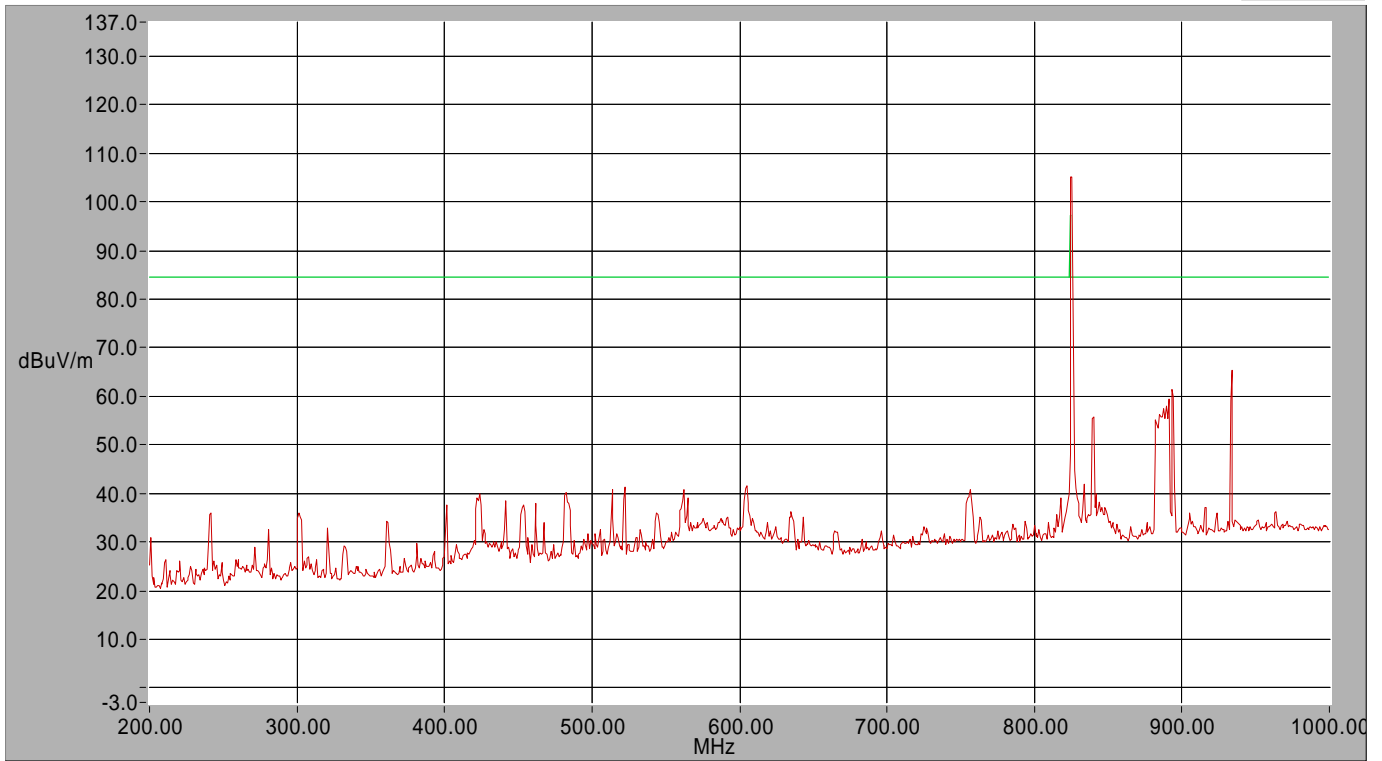
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 991 (824.04 MHz TX)

Date & Time: August 27, 1999 12:21 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:21 PM

Plot Number: 3

EMI   
AMB   
LIM 



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 16/6/1999  
04318v3.dat 23/4/1998  
limit.dat 2/9/1999

# Radiated Emissions Vertical Polarity FCC PART 22

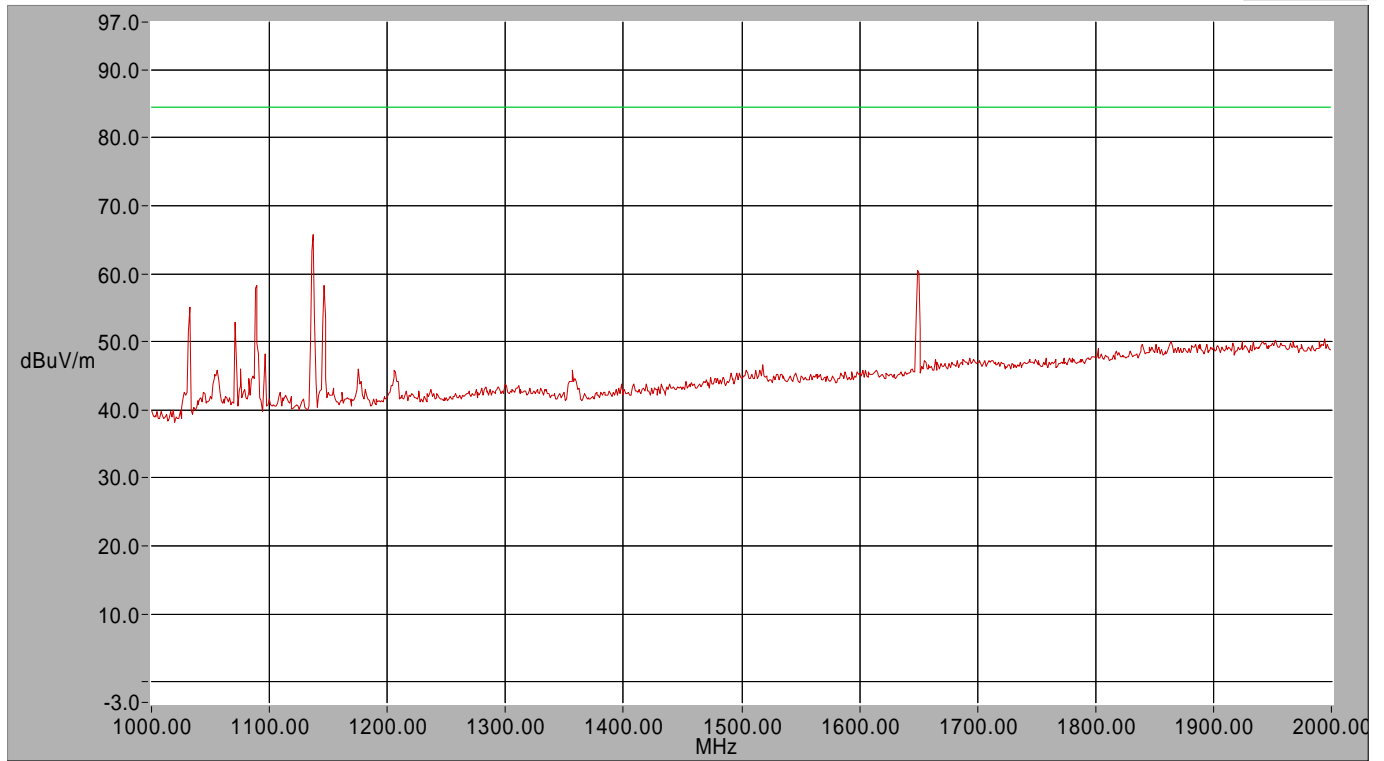
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 991 (824.04 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:17 PM

EMI   
AMB   
LIM 

Plot Number: 4



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB  
RBW 1.000 MHz Ref. Lev: 97.00 dBuV/m An Atten: 0.00 dB




Associated Files	
ofts3m.dat	16/6/1999
04318v3.dat	23/4/1998
limit.dat	2/9/1999

## Radiated Emissions Vertical Polarity FCC PART 22

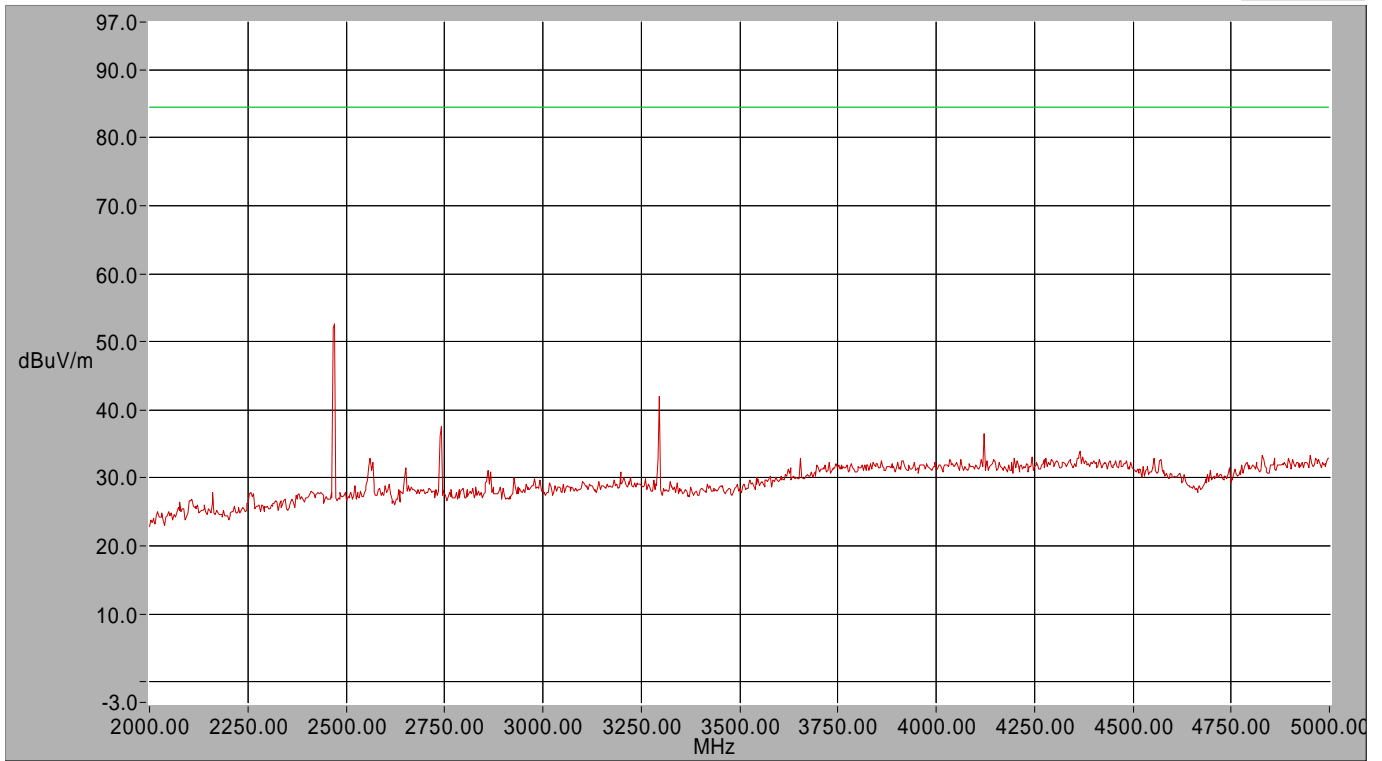
Title: Operational Tx  
 Mode of Operation: Operational Tx  
 Distance: 3 meters  
 Technologist: Ian Guldborg  
 Comments: Channel 991

Date & Time: August 28, 1999  
 Project #: 302A17  
 Company: Novatel  
 Product: Merlin  
 Serial #: 01.6d

10:52 AM

EMI	
AMB	
LIM	

Plot Number: 5



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW: 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 20.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588v3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

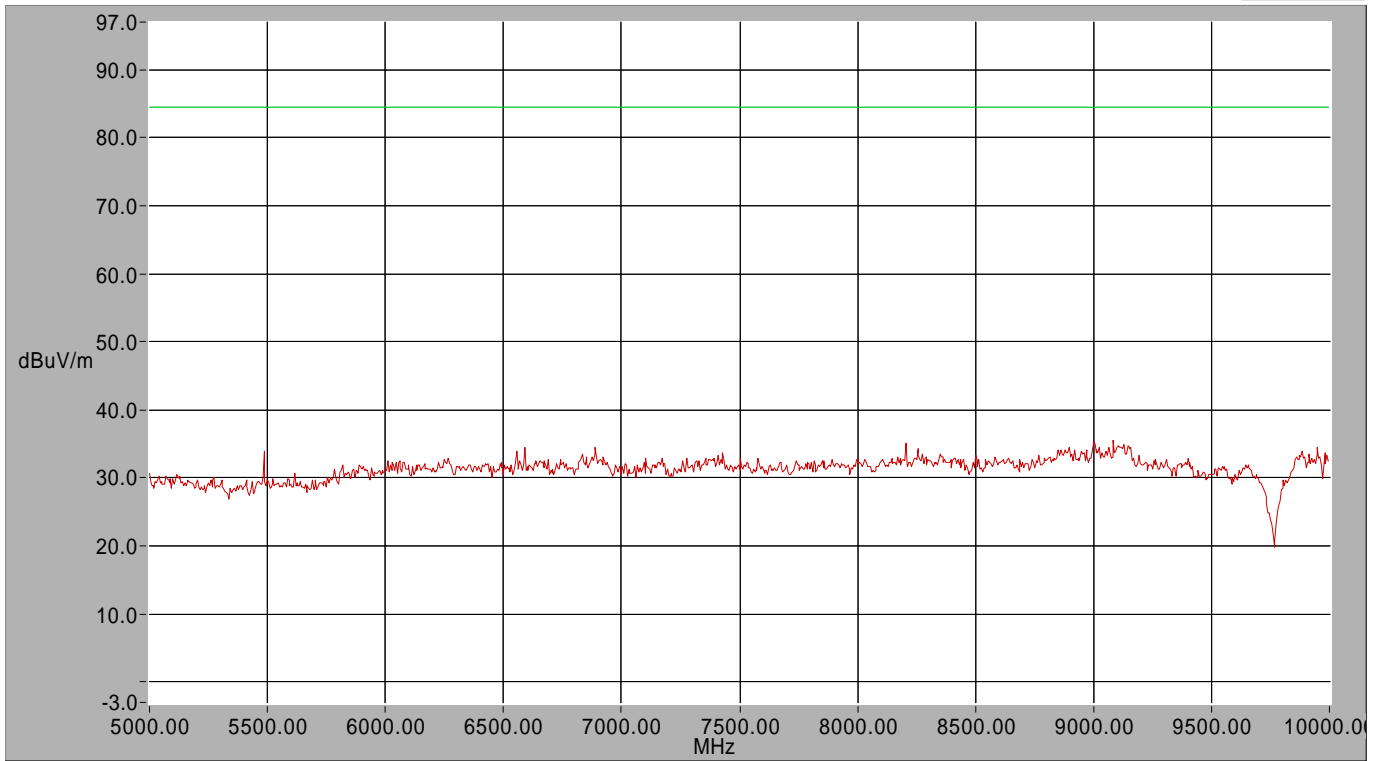
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 991

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

10:56 AM

EMI   
AMB   
LIM 

Plot Number: 6



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 0.00 dB

Associated Files	
ofts3m.dat	16/6/1999
09588v3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903






**Radiated Emissions  
Horizontal Polarity  
FCC PART 22**

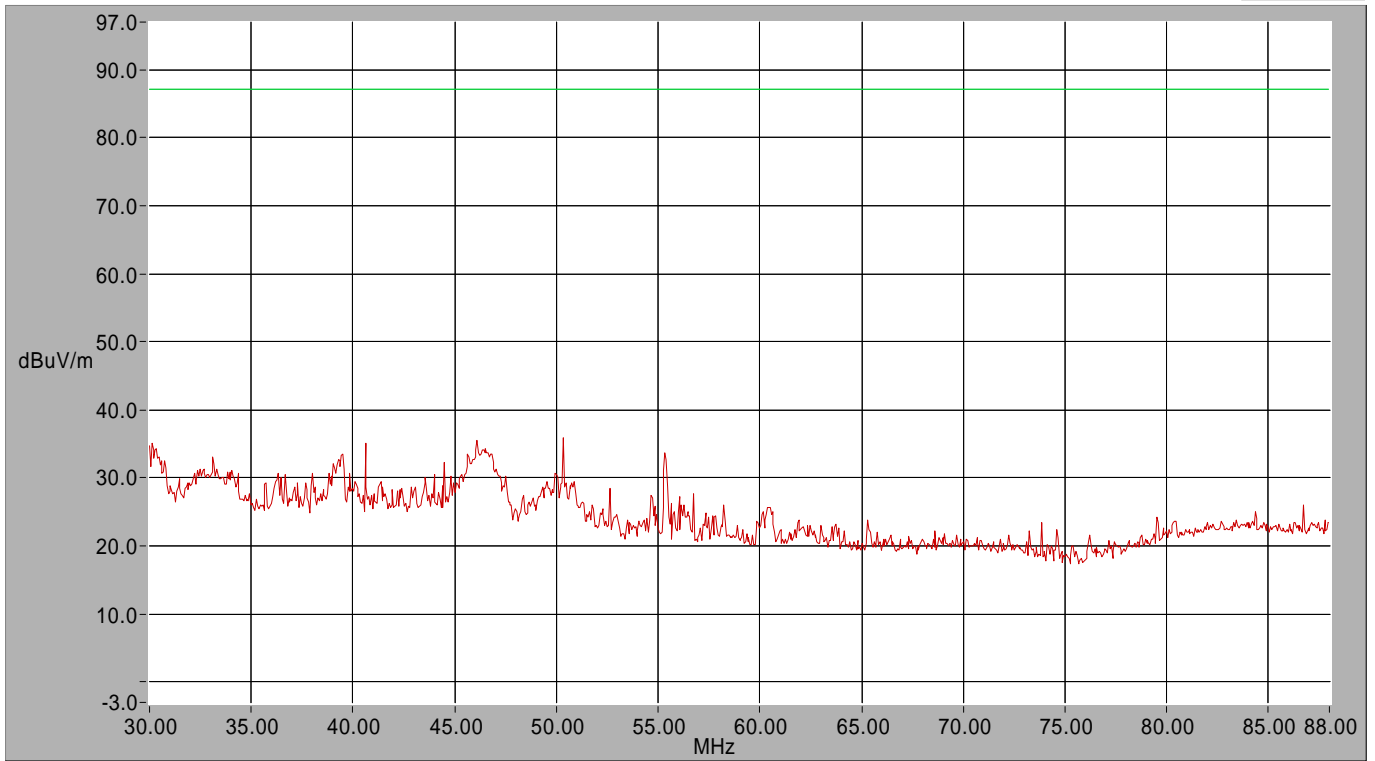
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldberg  
Comments: Channel 991 (824.04 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

11:48 AM

EMI   
AMB   
LIM 

Plot Number: 7



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	16/6/1999
04318h3.dat	23/4/1998
limit.dat	2/9/1999

# Radiated Emissions Horizontal Polarity FCC PART 22

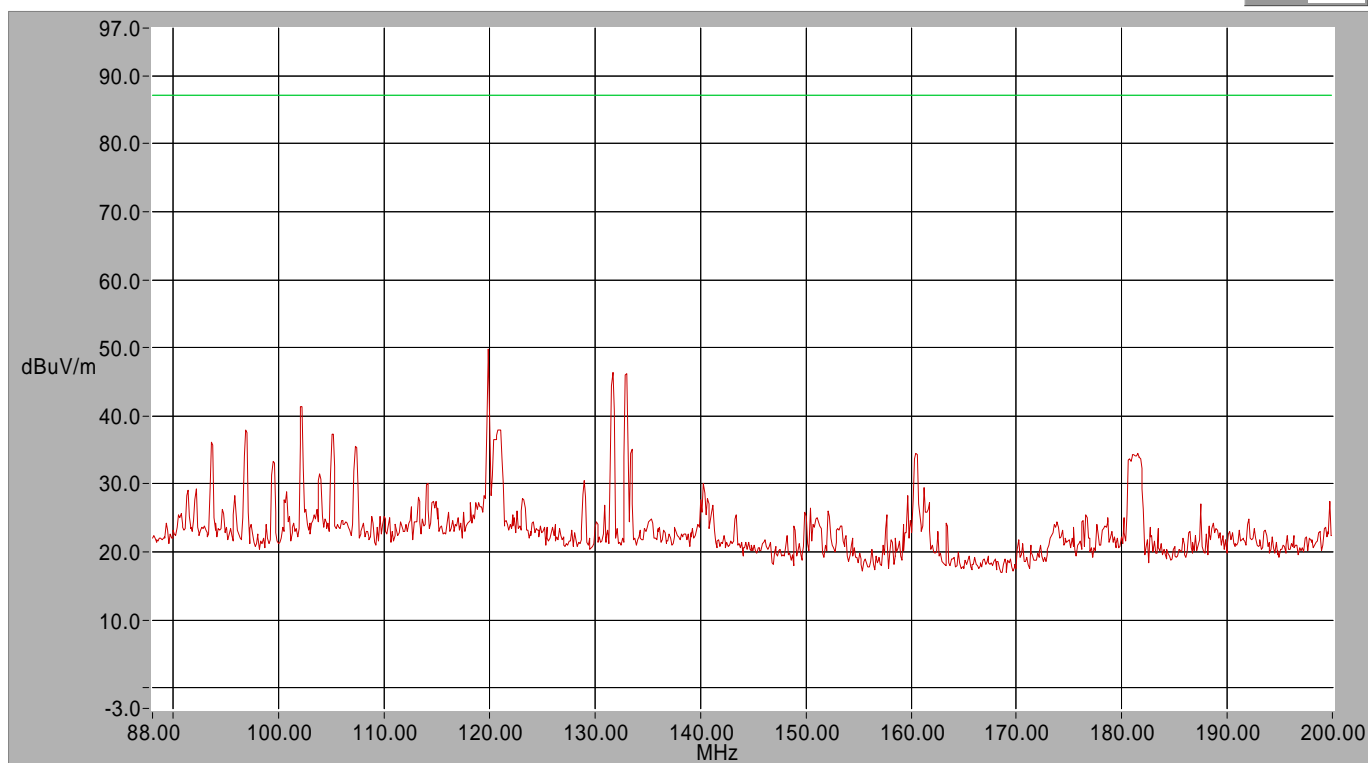
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 991 (824.04 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

11:59 AM

EMI   
AMB   
LIM 

Plot Number: 8



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 16/6/1999  
04318h3.dat 23/4/1998  
limit.dat 2/9/1999

**Radiated Emissions  
Horizontal Polarity  
FCC PART 22**

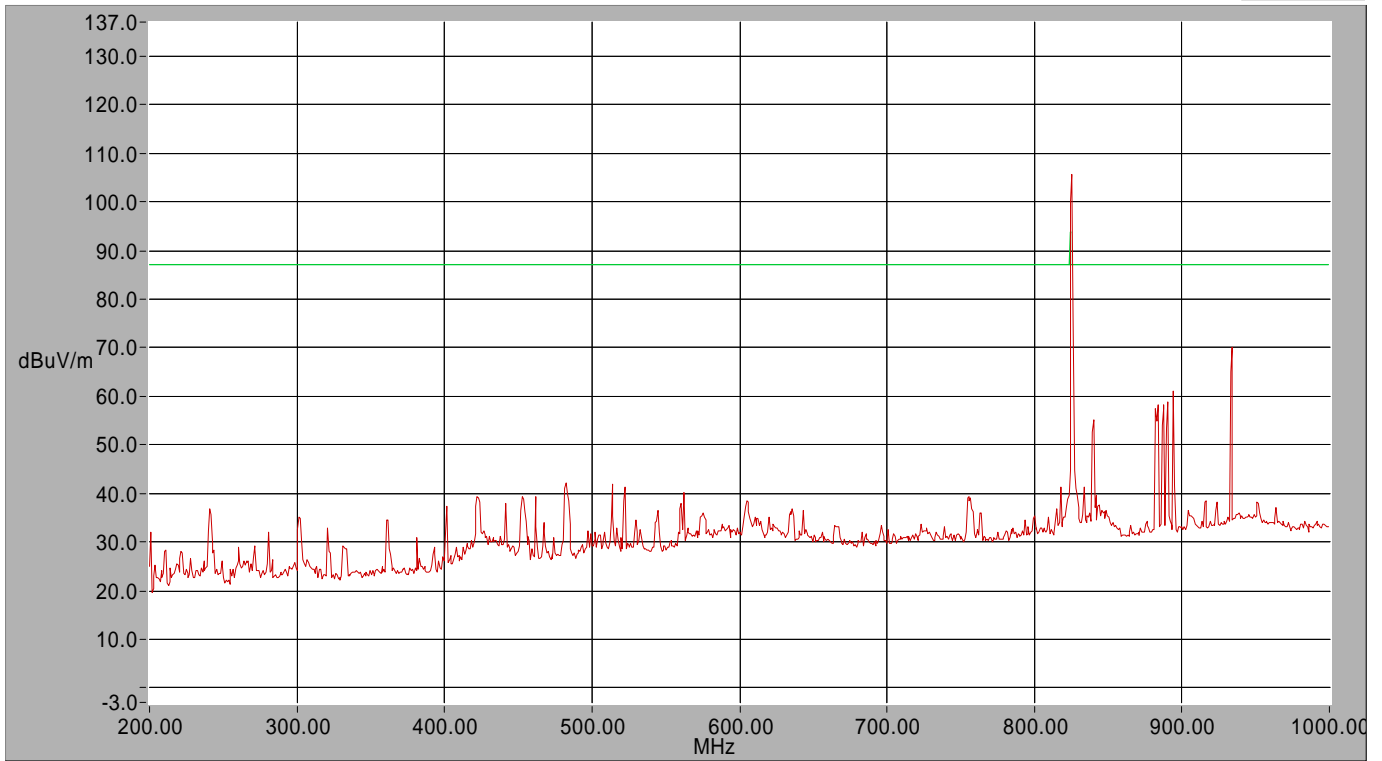
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 991 (824.04 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:04 PM

EMI   
AMB   
LIM 

Plot Number: 9



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 16/6/1999  
04318h3.dat 23/4/1998  
limit.dat 2/9/1999






# Radiated Emissions Horizontal Polarity FCC PART 22

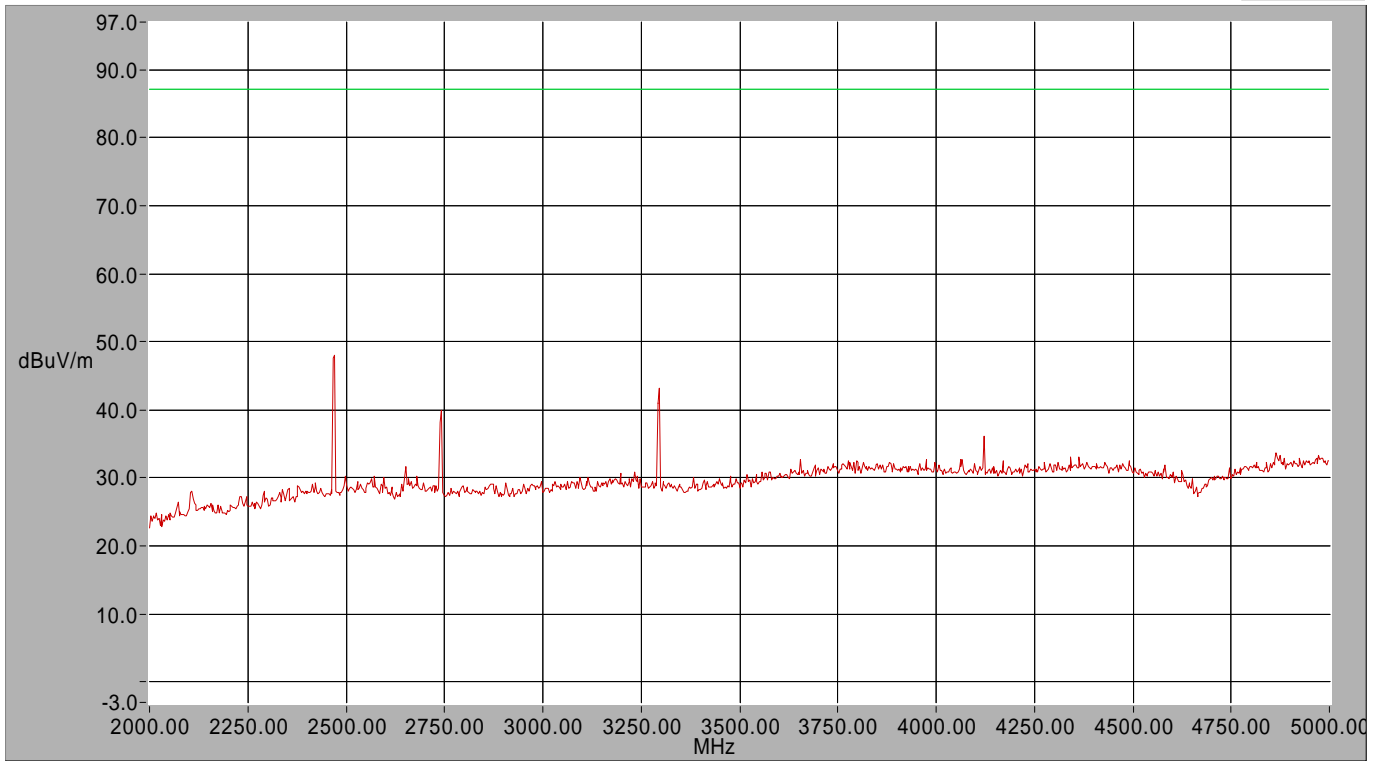
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 991

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

10:42 AM

EMI   
AMB   
LIM 

Plot Number: 11



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 20.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588h3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

**Radiated Emissions  
Horizontal Polarity  
FCC PART 22**

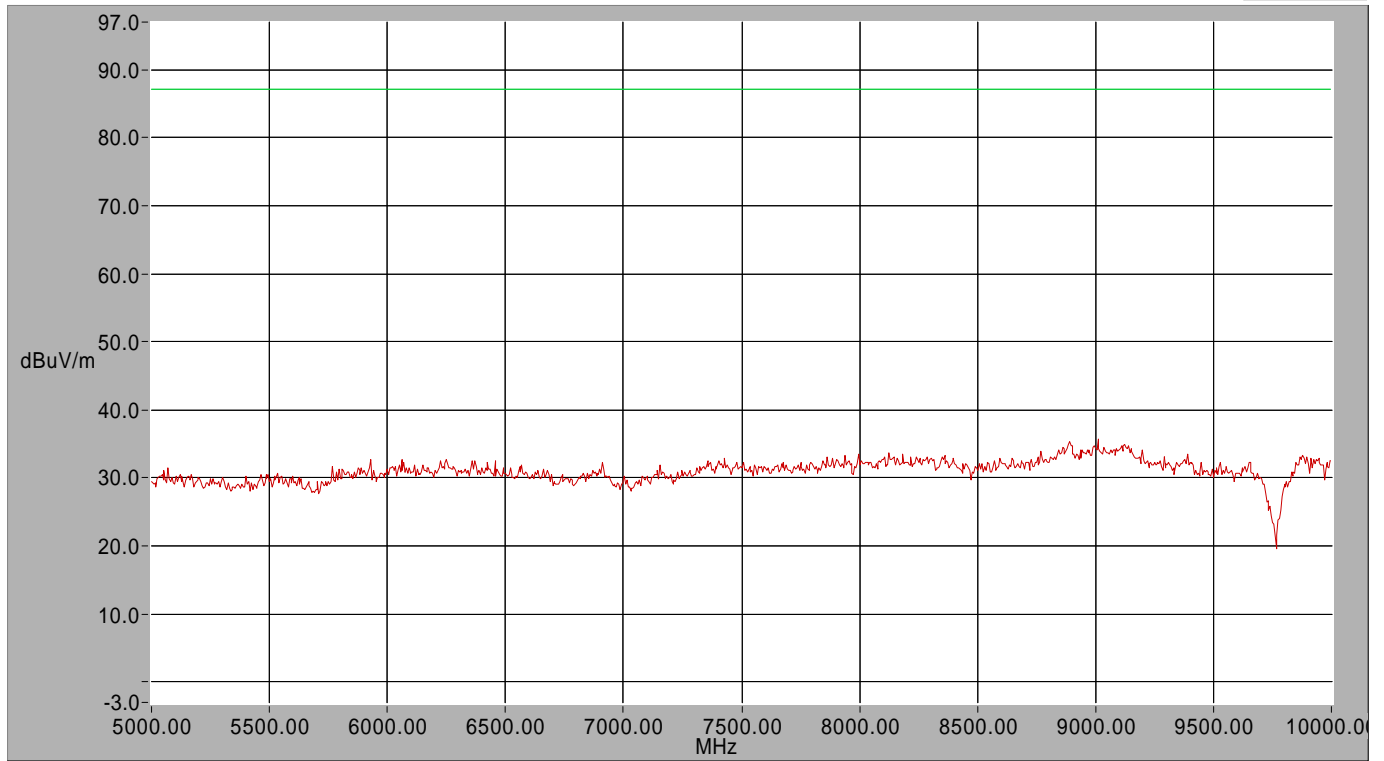
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 991

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

10:47 AM

EMI   
AMB   
LIM 

Plot Number: 12



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 0.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588h3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

# Radiated Emissions Vertical Polarity FCC PART 22

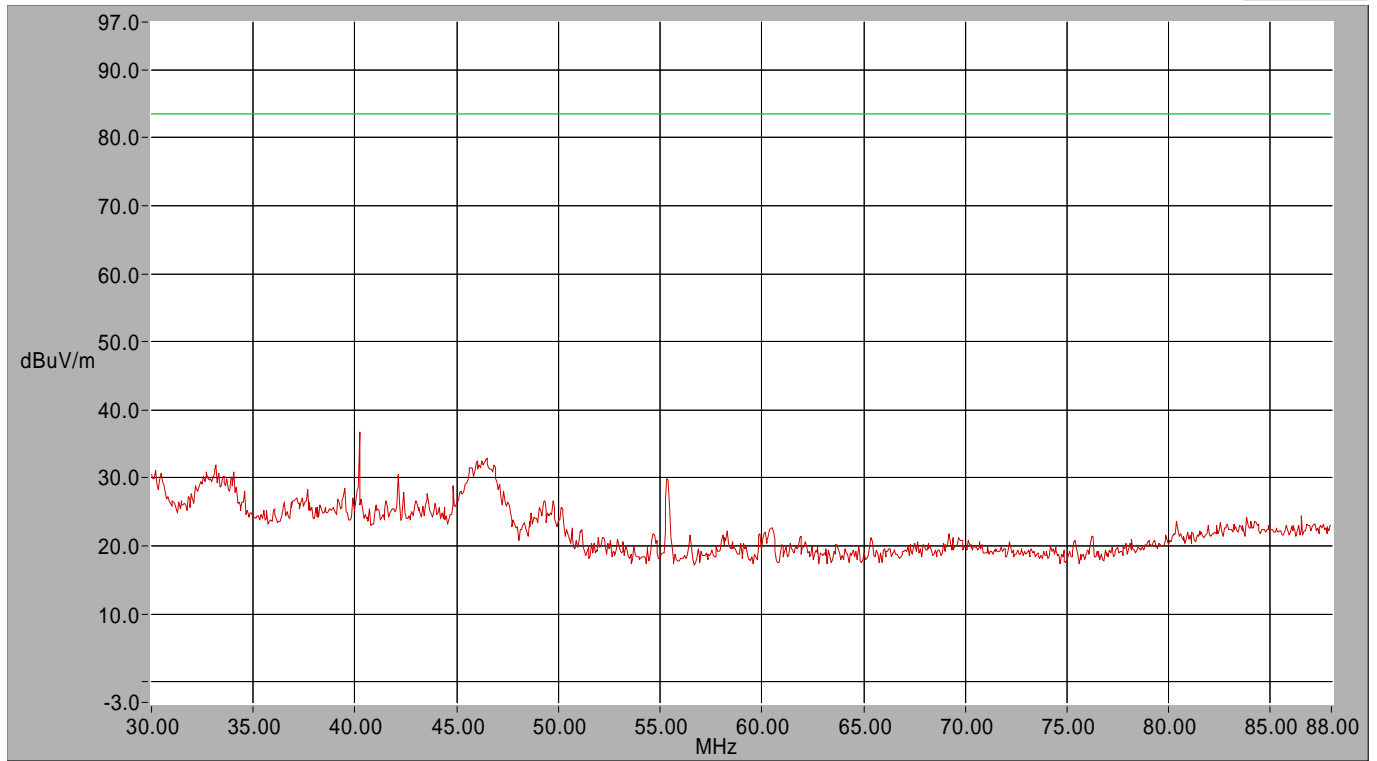
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:38 PM

EMI   
AMB   
LIM 

Plot Number: 13



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 16/6/1999  
04318v3.dat 23/4/1998  
limit.dat 2/9/1999

**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

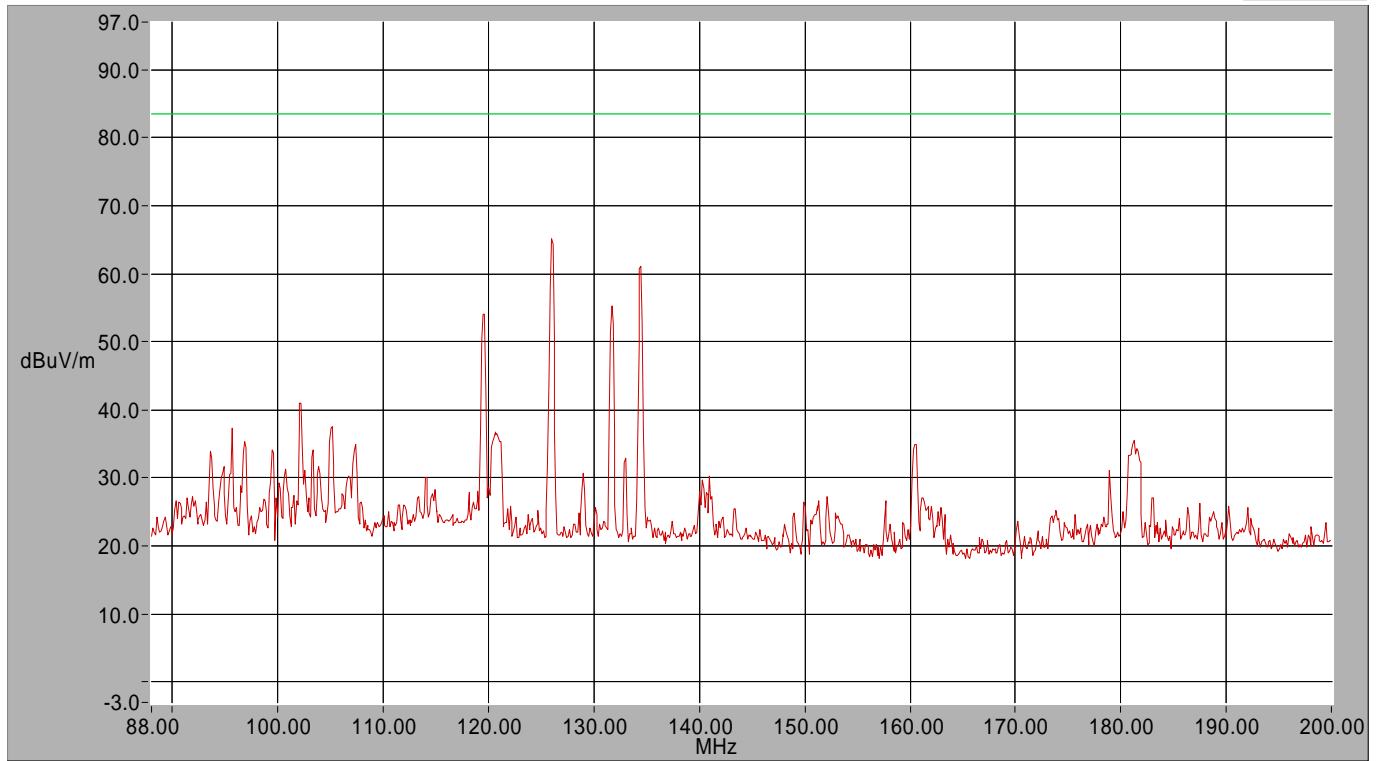
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 27, 1999 12:45 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:45 PM

EMI   
AMB   
LIM 

Plot Number: 14



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 16/6/1999  
04318v3.dat 23/4/1998  
limit.dat 2/9/1999






**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

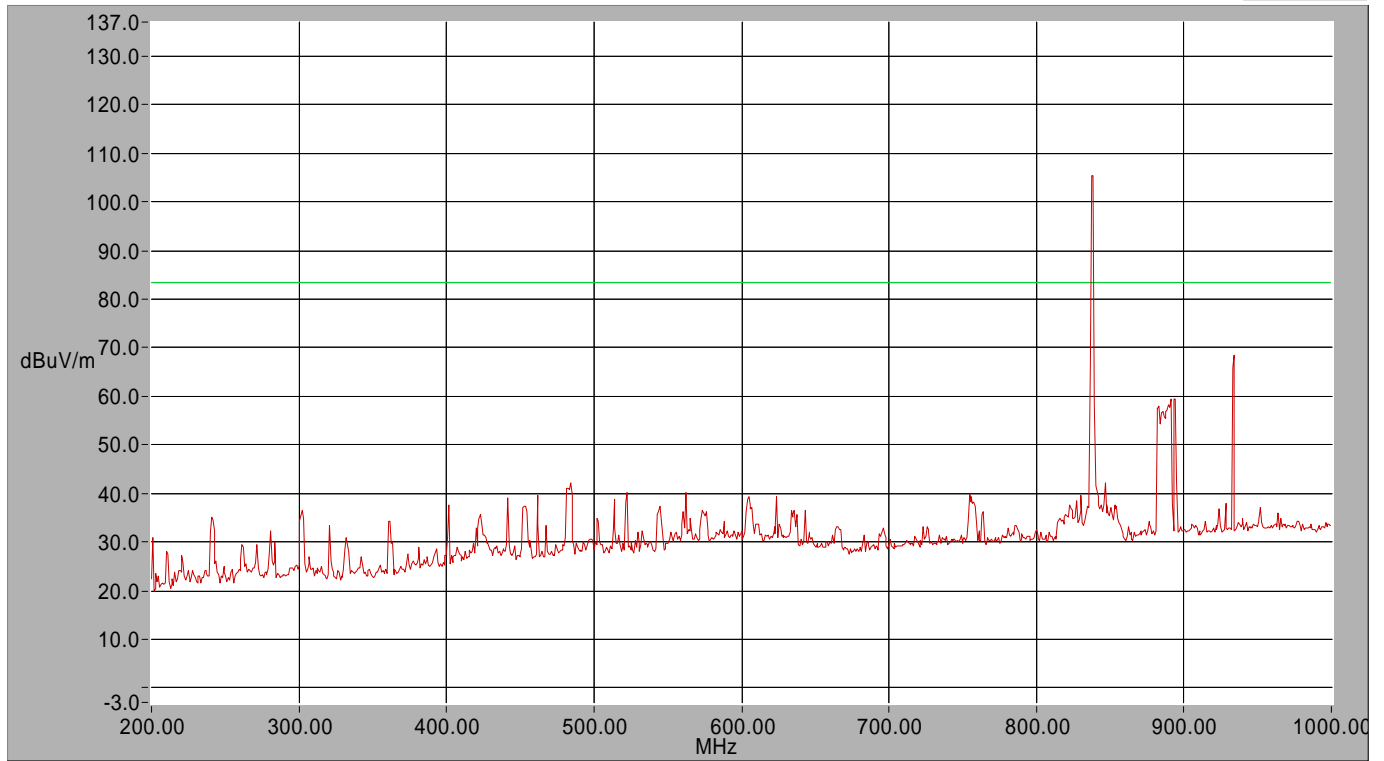
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:50 PM

EMI   
AMB   
LIM 

Plot Number: 15



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 16/6/1999  
04318v3.dat 23/4/1998  
limit.dat 2/9/1999




# Radiated Emissions Vertical Polarity FCC PART 22

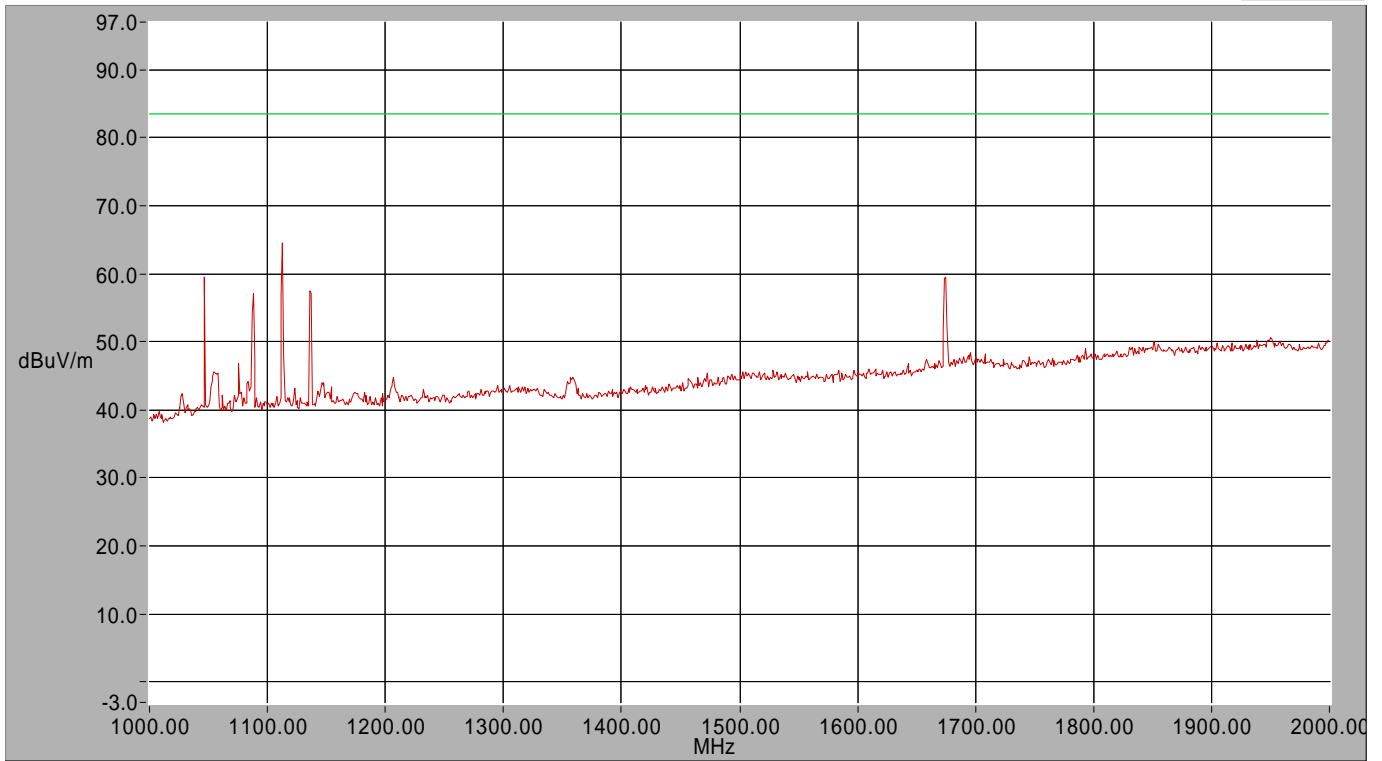
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

12:55 PM

Plot Number: 16

EMI   
AMB   
LIM 



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB  
RBW 1.000 MHz Ref. Lev: 97.00 dBuV/m An Atten: 0.00 dB




Associated Files  
ofts3m.dat 16/6/1999  
04318v3.dat 23/4/1998  
limit.dat 2/9/1999

**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

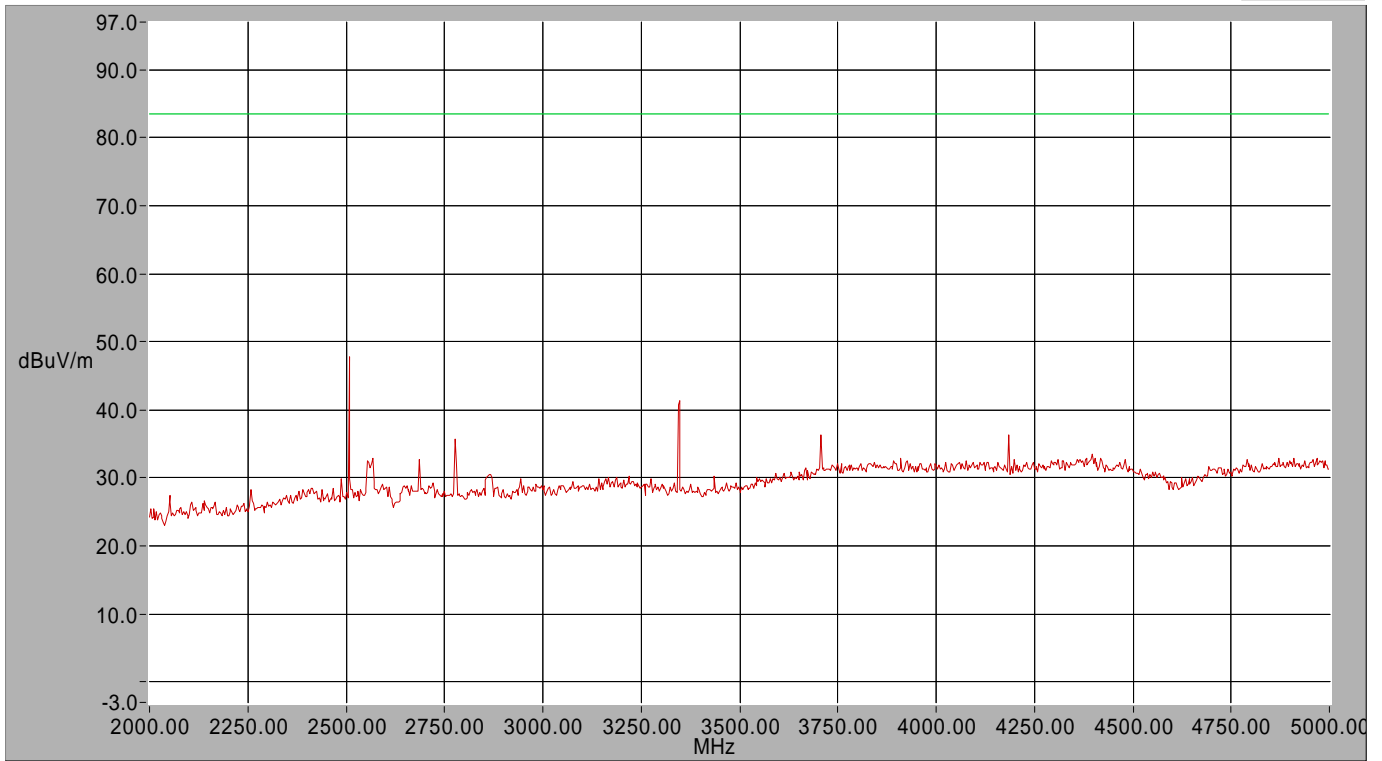
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

11:24 AM

EMI   
AMB   
LIM 

Plot Number: 17



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 20.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588v3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

# Radiated Emissions Vertical Polarity FCC PART 22

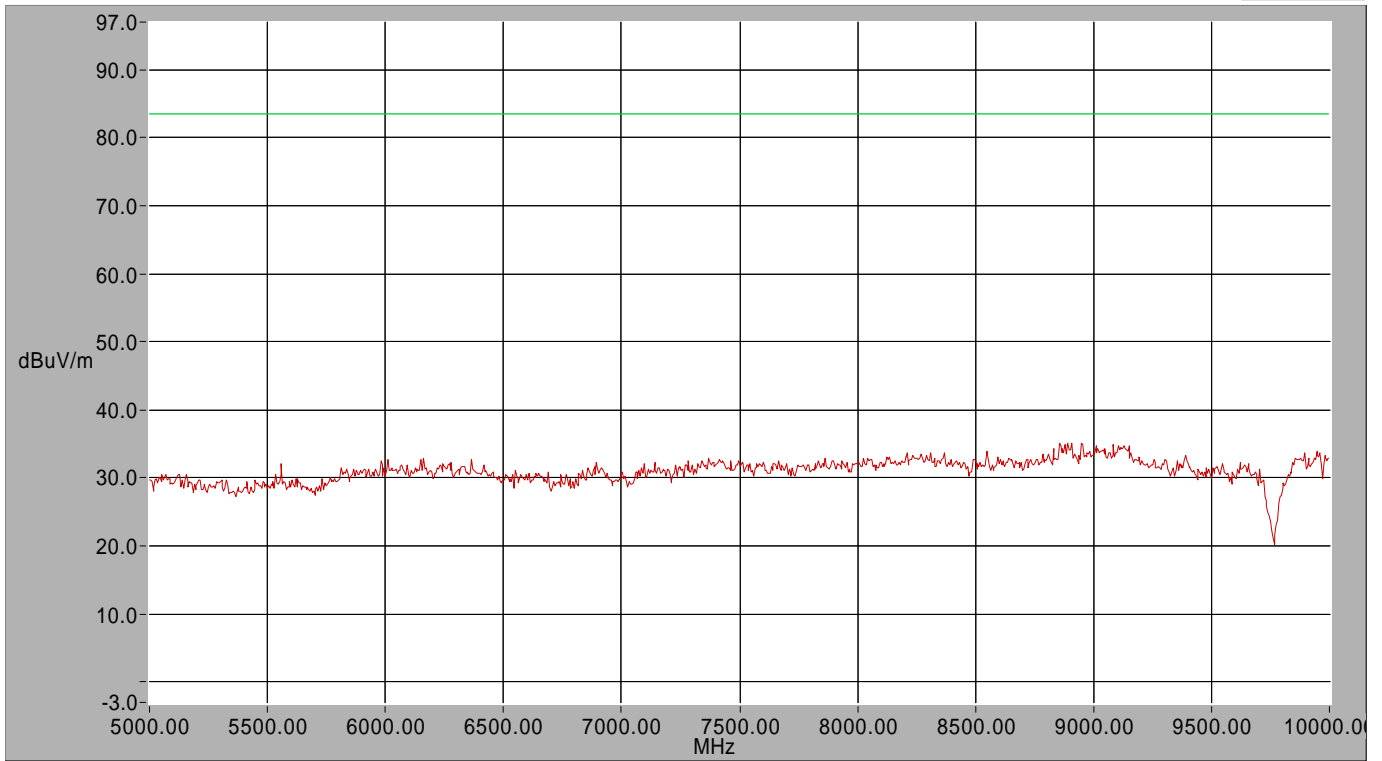
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

11:28 AM

EMI   
AMB   
LIM 

Plot Number: 18



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW: 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 0.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588v3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

# Radiated Emissions Horizontal Polarity FCC PART 22

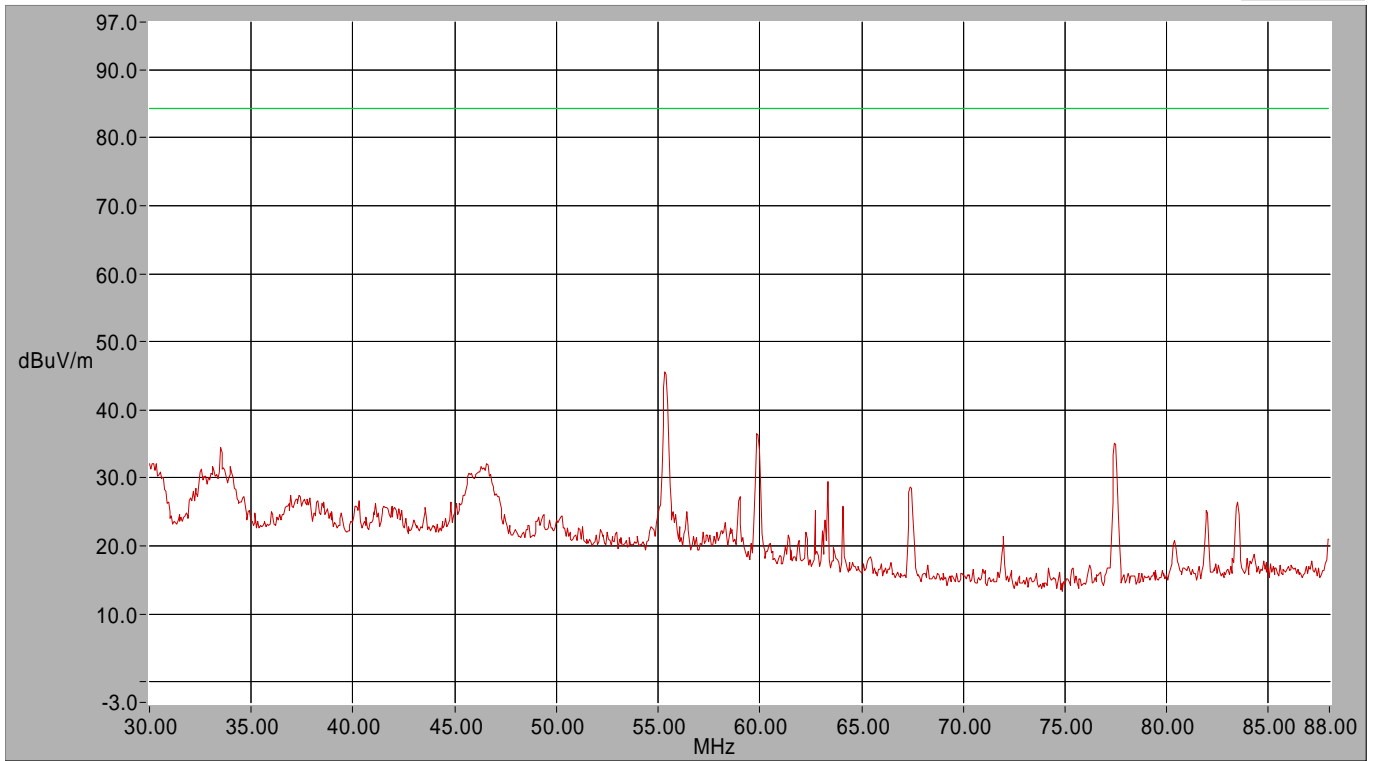
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

1:01 PM

EMI   
AMB   
LIM 

Plot Number: 19



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 16/6/1999  
04318h3.dat 23/4/1998  
limit.dat 2/9/1999

# Radiated Emissions Horizontal Polarity FCC PART 22

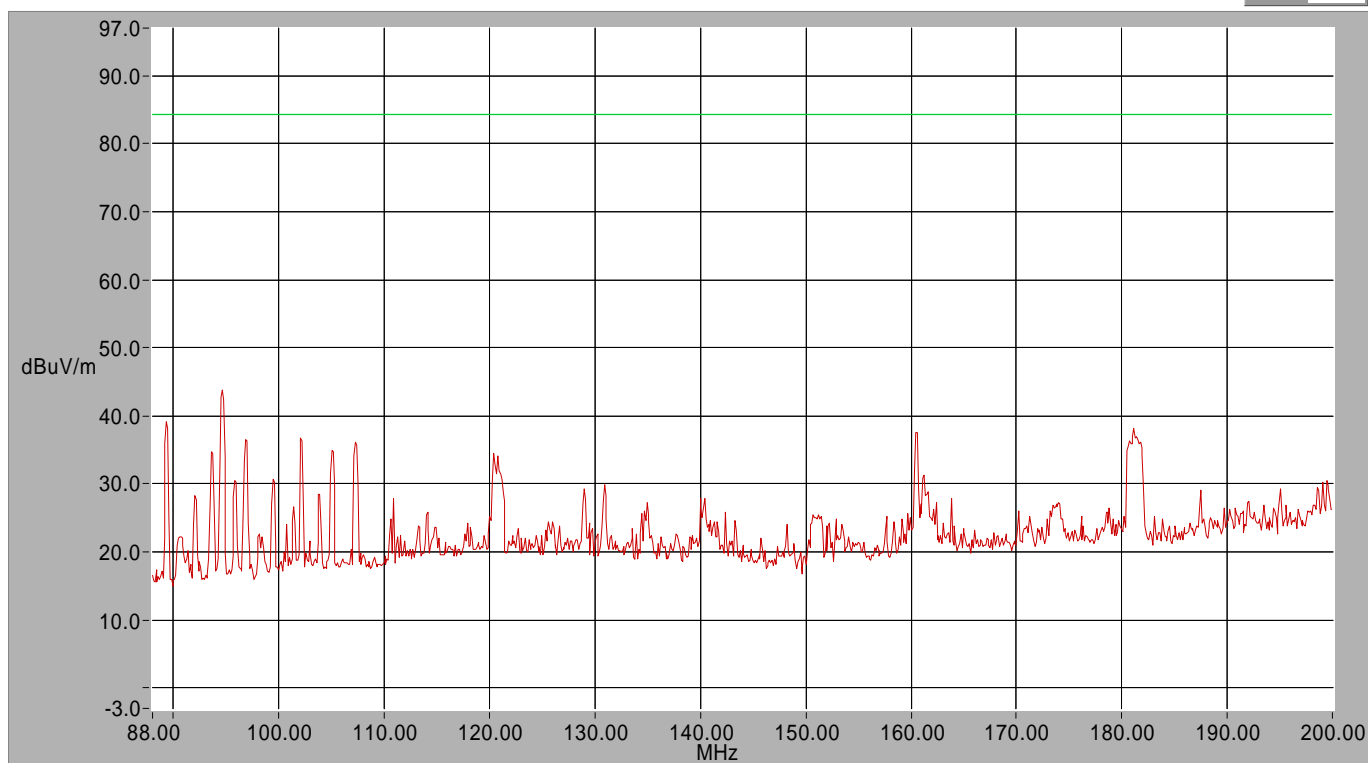
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

1:08 PM

EMI   
AMB   
LIM 

Plot Number: 20



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 16/6/1999  
04318h3.dat 23/4/1998  
limit.dat 2/9/1999

## Radiated Emissions Horizontal Polarity FCC PART 22

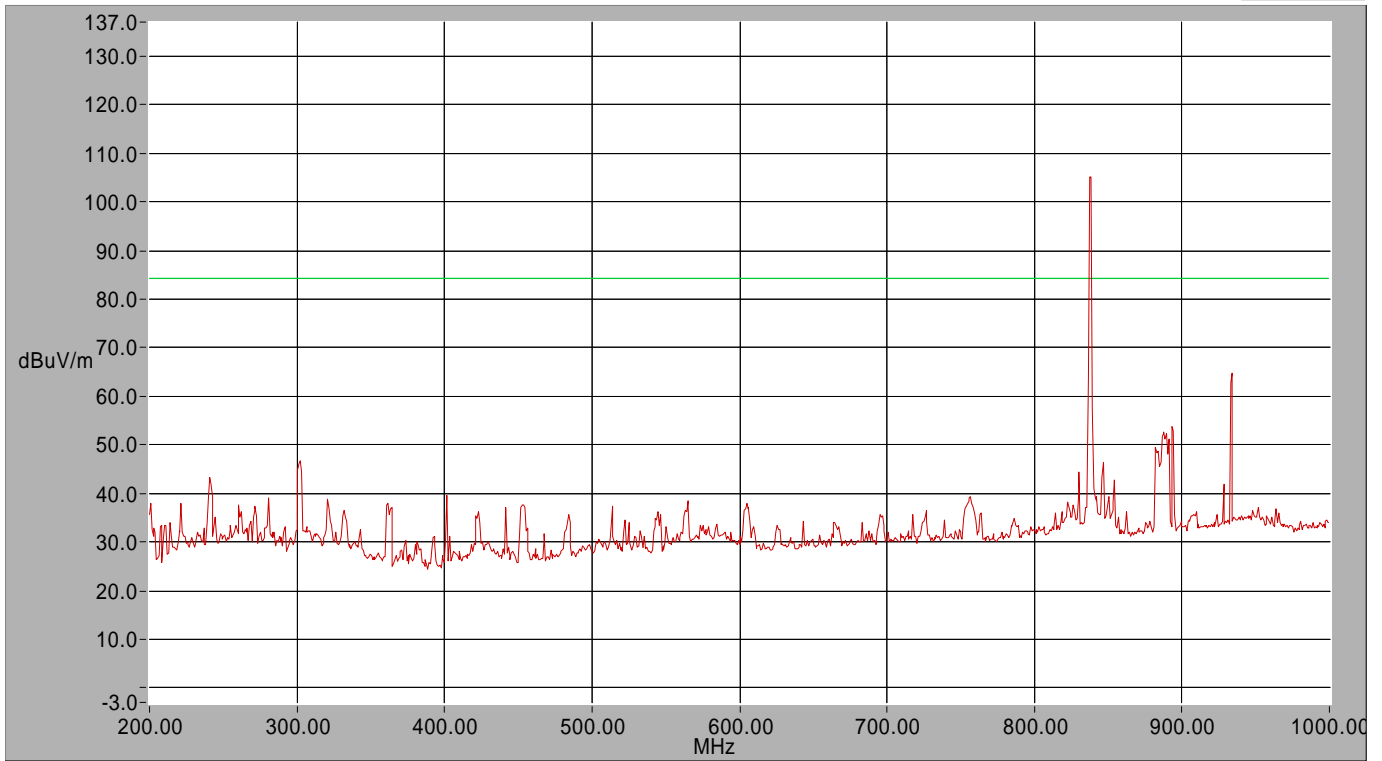
Title: Operational Tx  
 Mode of Operation: Operational Tx  
 Distance: 3 meters  
 Technologist: Ian Guldborg  
 Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 27, 1999  
 Project #: 302A17  
 Company: Novatel  
 Product: Merlin  
 Serial #: 01.6d

1:14 PM

EMI	
AMB	
LIM	

Plot Number: 21



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	16/6/1999
04318h3.dat	23/4/1998
limit.dat	2/9/1999

**Radiated Emissions  
Horizontal Polarity  
FCC PART 22**

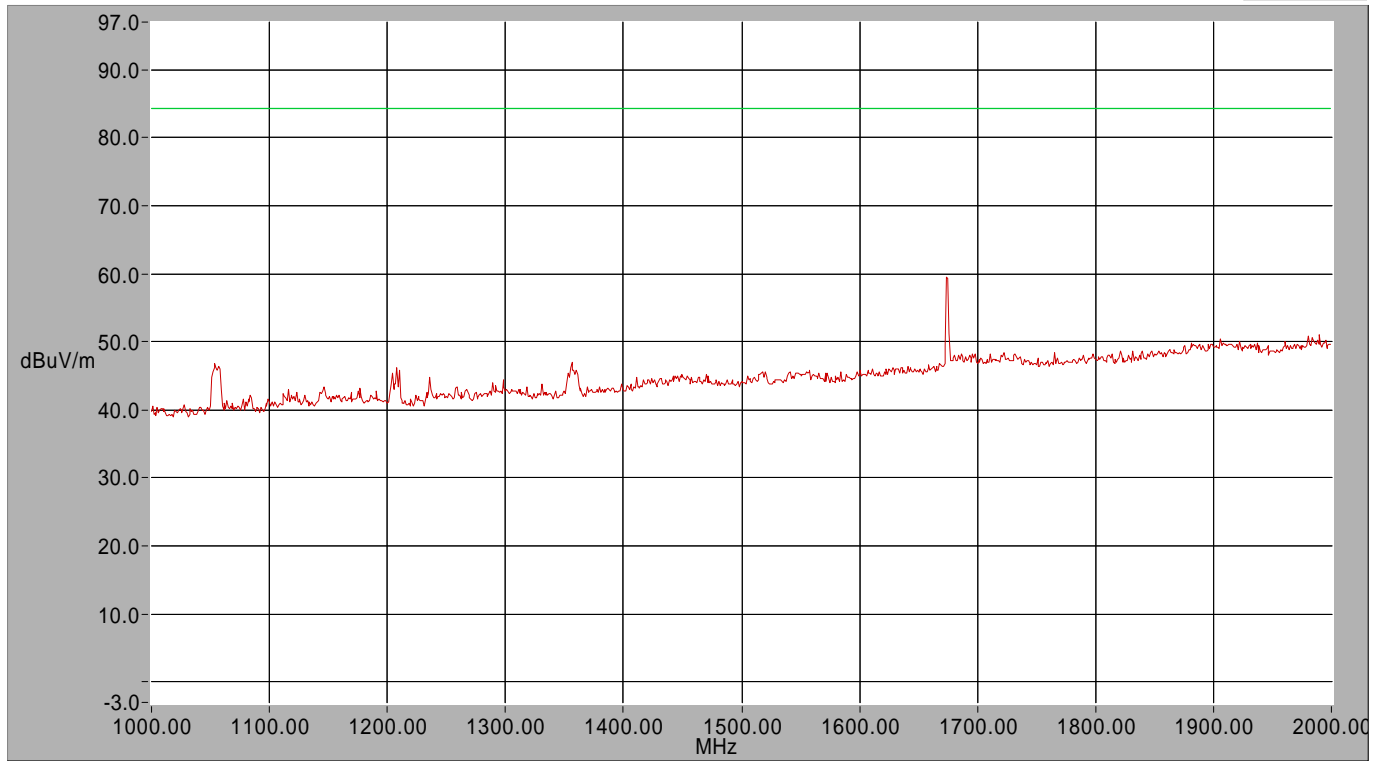
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

1:25 PM

EMI   
AMB   
LIM 

Plot Number: 22



VBW: 300.000 kHz    Sweep Time: Auto    PR Atten: 0.00 dB  
RBW: 1.000 MHz    Ref. Lev: 97.00 dBuV/m    An Atten: 0.00 dB

Associated Files	
ofts3m.dat	16/6/1999
04318h3.dat	23/4/1998
limit.dat	2/9/1999






## Radiated Emissions Horizontal Polarity FCC PART 22

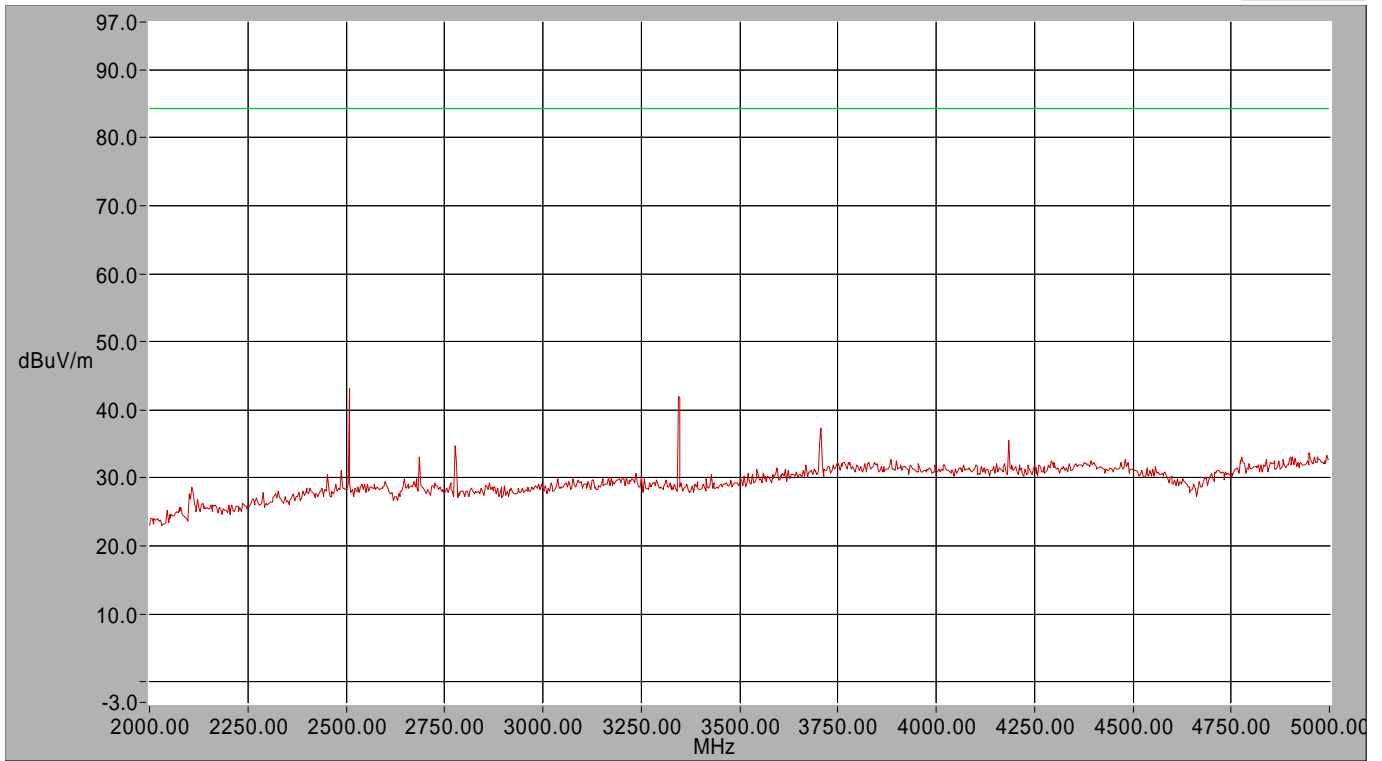
Title: Operational Tx  
 Mode of Operation: Operational Tx  
 Distance: 3 meters  
 Technologist: Ian Guldborg  
 Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 28, 1999  
 Project #: 302A17  
 Company: Novatel  
 Product: Merlin  
 Serial #: 01.6d

11:33 AM

EMI	
AMB	
LIM	

Plot Number: 23



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW: 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 20.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588h3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

# Radiated Emissions Horizontal Polarity FCC PART 22

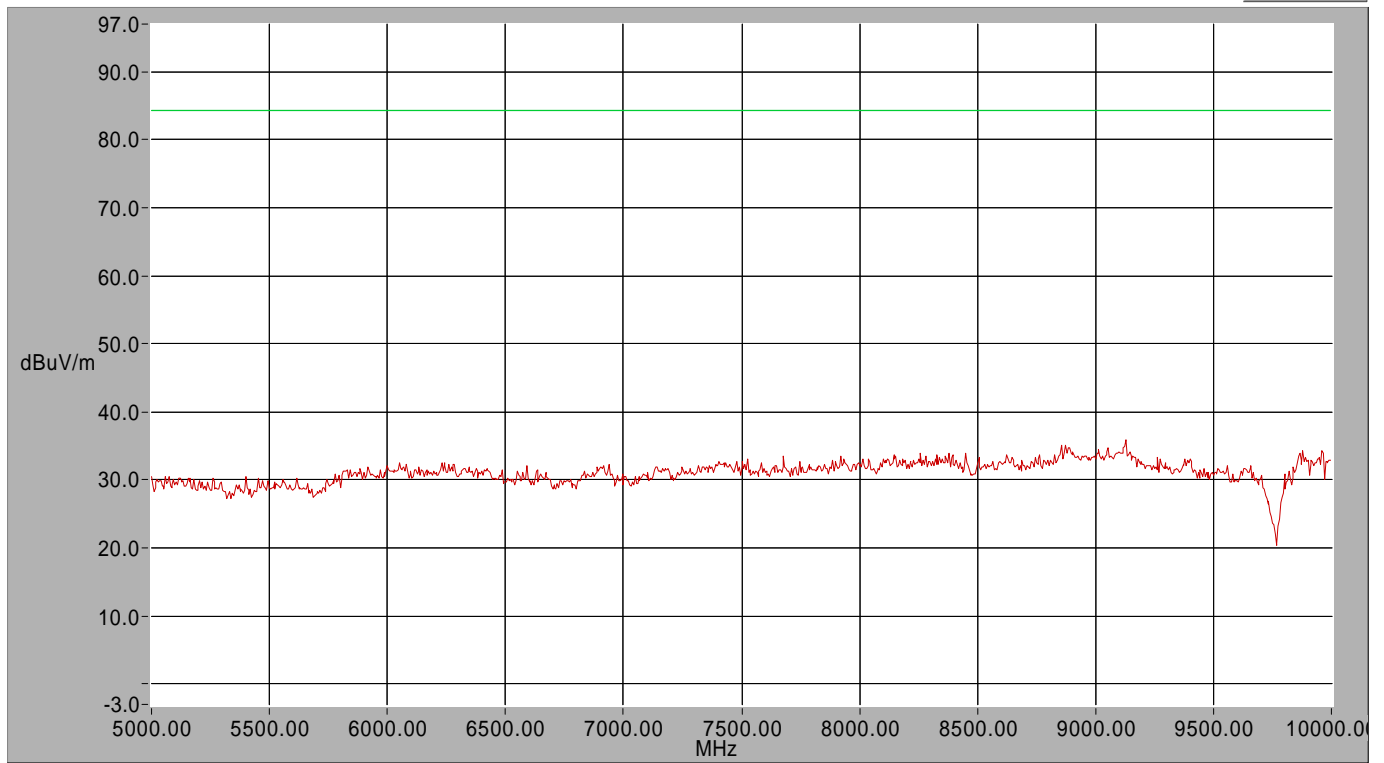
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384 (836.53 MHz TX)

Date & Time: August 28, 1999 11:38 AM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

11:38 AM

EMI   
AMB   
LIM 

Plot Number: 24



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW: 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 0.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588v3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

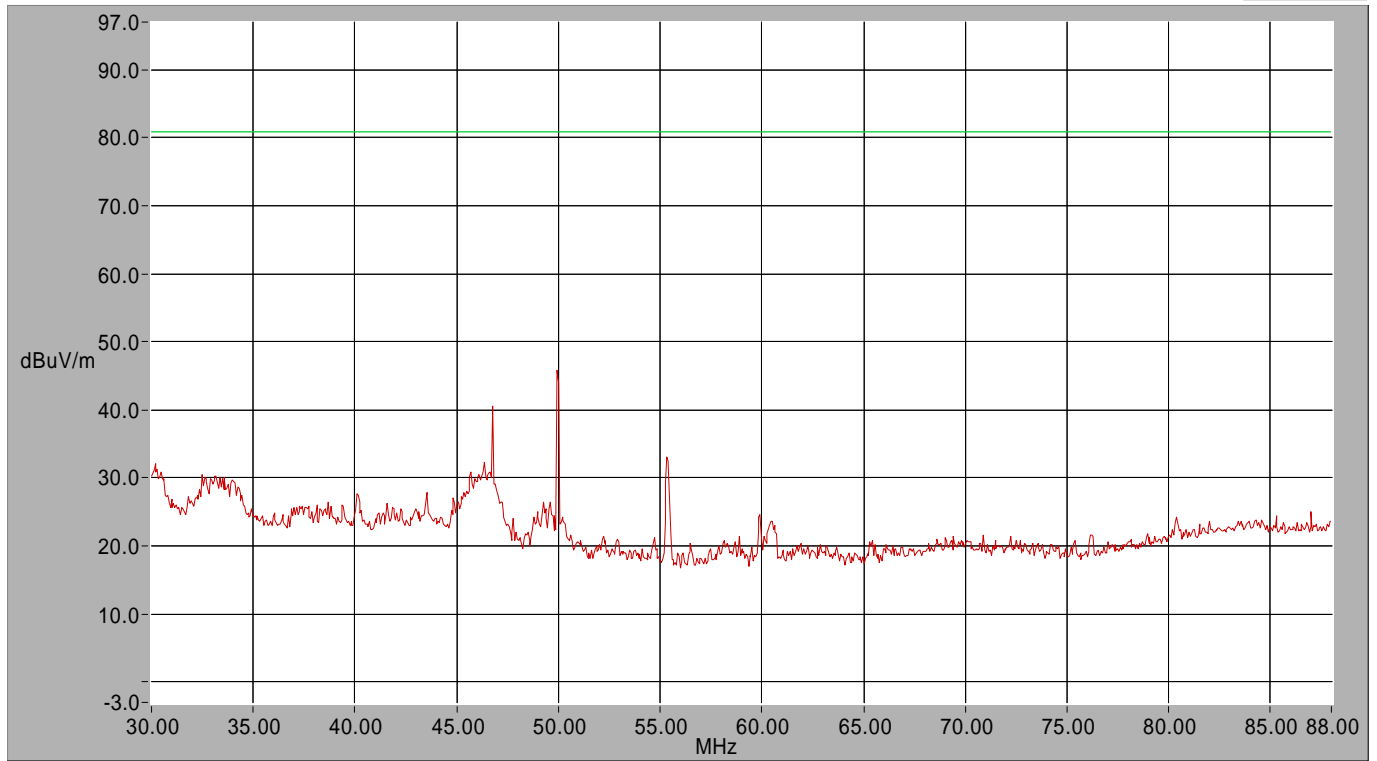
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 27, 1999 1:57 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

1:57 PM

EMI   
AMB   
LIM 

Plot Number: 25



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	16/6/1999
04318v3.dat	23/4/1998
limit.dat	2/9/1999

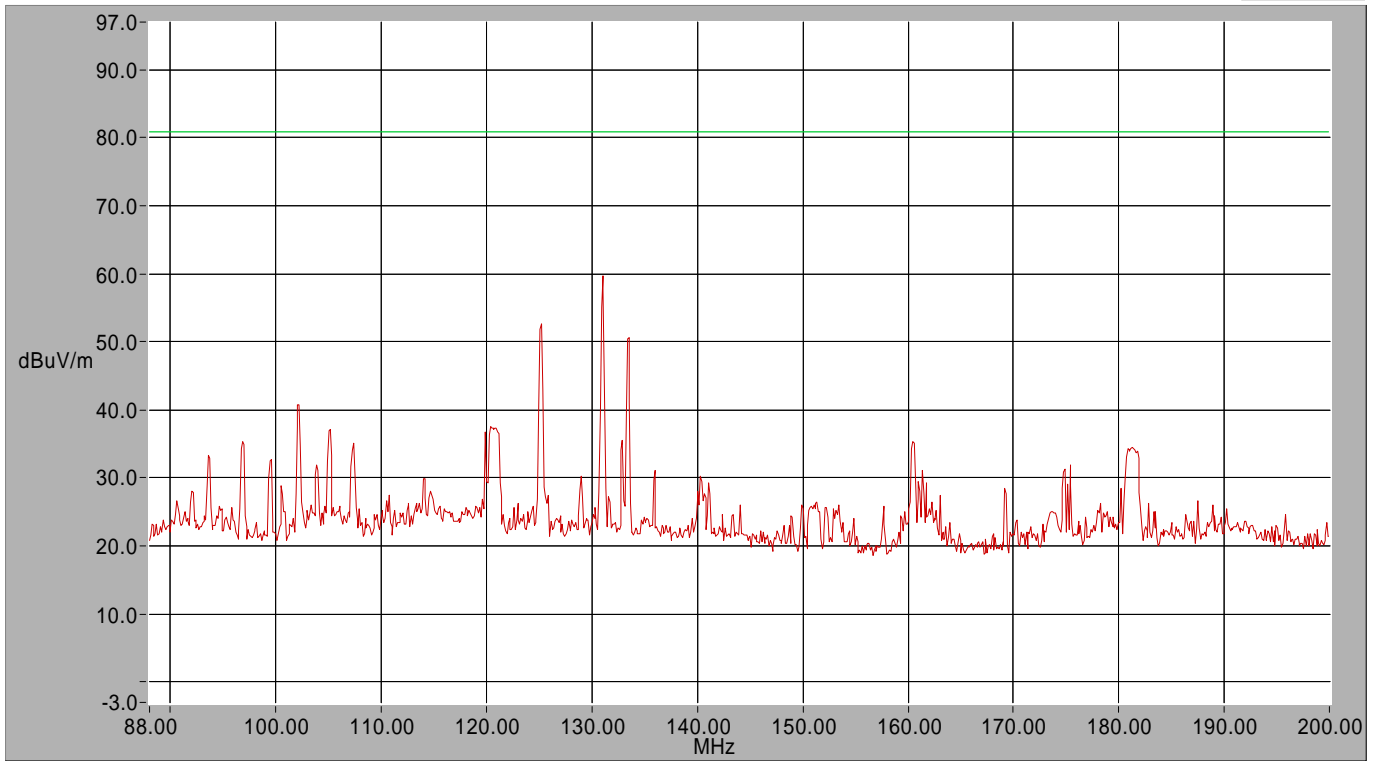
**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 27, 1999 2:04 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

Plot Number: 26

EMI   
AMB   
LIM 



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 16/6/1999  
04318v3.dat 23/4/1998  
limit.dat 2/9/1999

# Radiated Emissions Vertical Polarity FCC PART 22

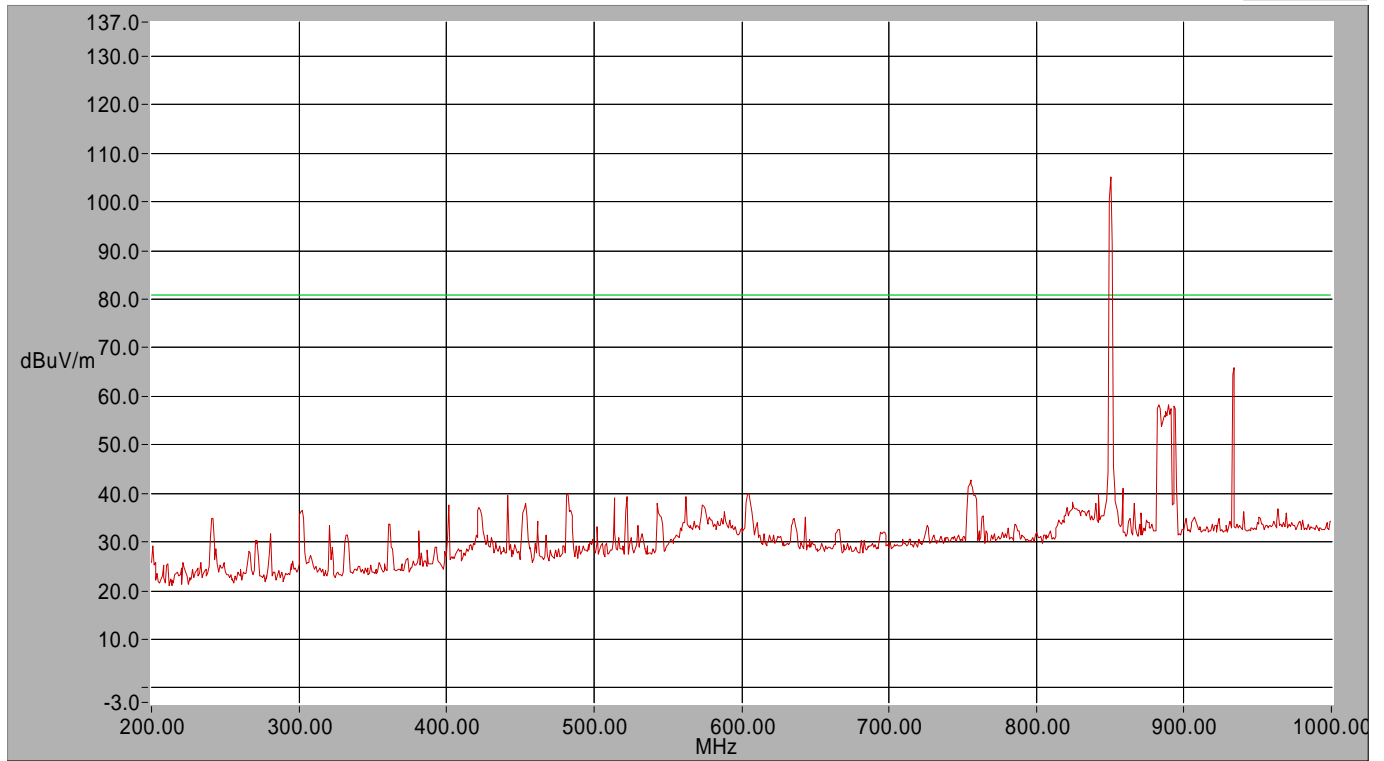
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldberg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

2:09 PM

EMI   
AMB   
LIM 

Plot Number: 27



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 16/6/1999  
04318v3.dat 23/4/1998  
limit.dat 2/9/1999

# Radiated Emissions Vertical Polarity FCC PART 22

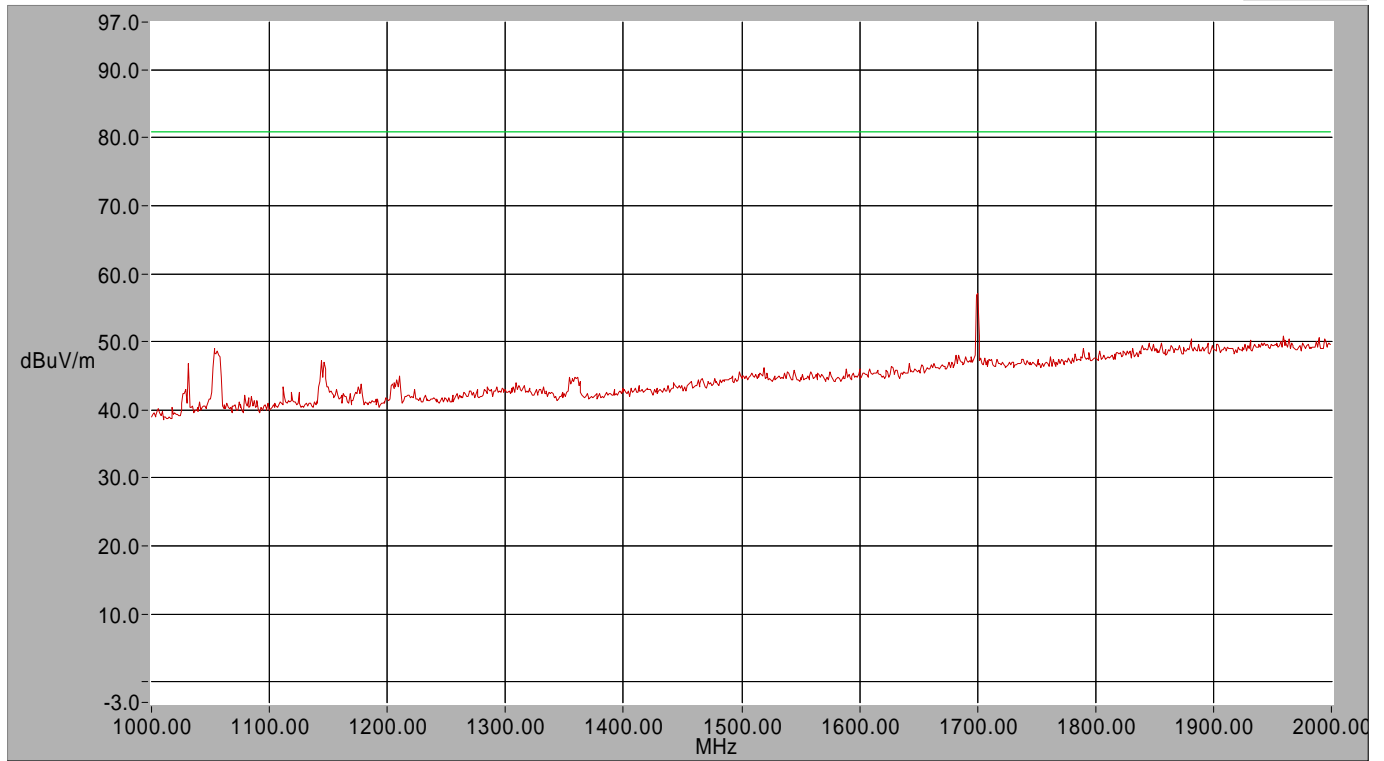
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 27, 1999 2:14 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

2:14 PM

EMI   
AMB   
LIM 

Plot Number: 28



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB  
RBW 1.000 MHz Ref. Lev: 97.00 dBuV/m An Atten: 0.00 dB




Associated Files  
ofts3m.dat 16/6/1999  
04318v3.dat 23/4/1998  
limit.dat 2/9/1999

# Radiated Emissions Vertical Polarity FCC PART 22

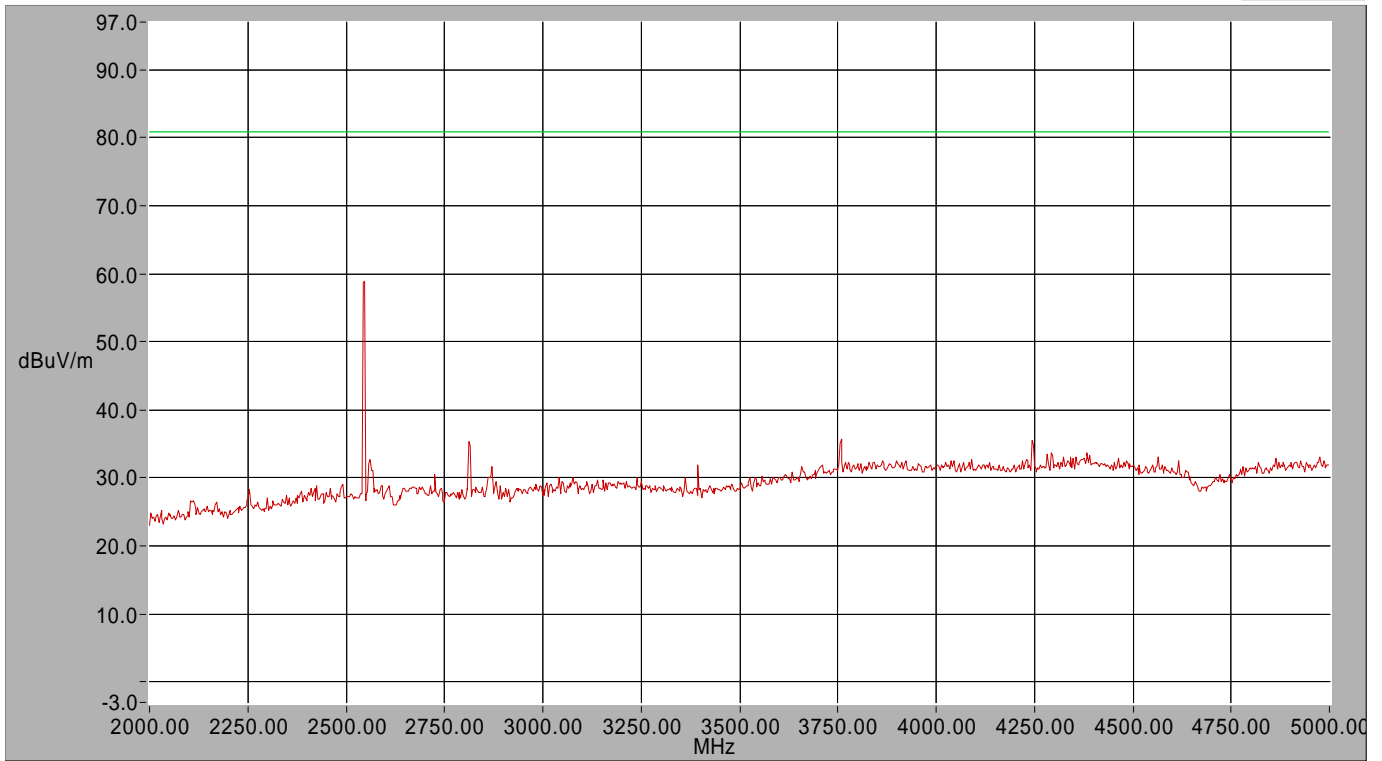
Title: Operational Tx  
 Mode of Operation: Operational Tx  
 Distance: 3 meters  
 Technologist: Ian Guldberg  
 Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 28, 1999  
 Project #: 302A17  
 Company: Novatel  
 Product: Merlin  
 Serial #: 01.6d

11:52 AM

EMI	
AMB	
LIM	

Plot Number: 29



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW: 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 20.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588v3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

**Radiated Emissions  
Vertical Polarity  
FCC PART 22**

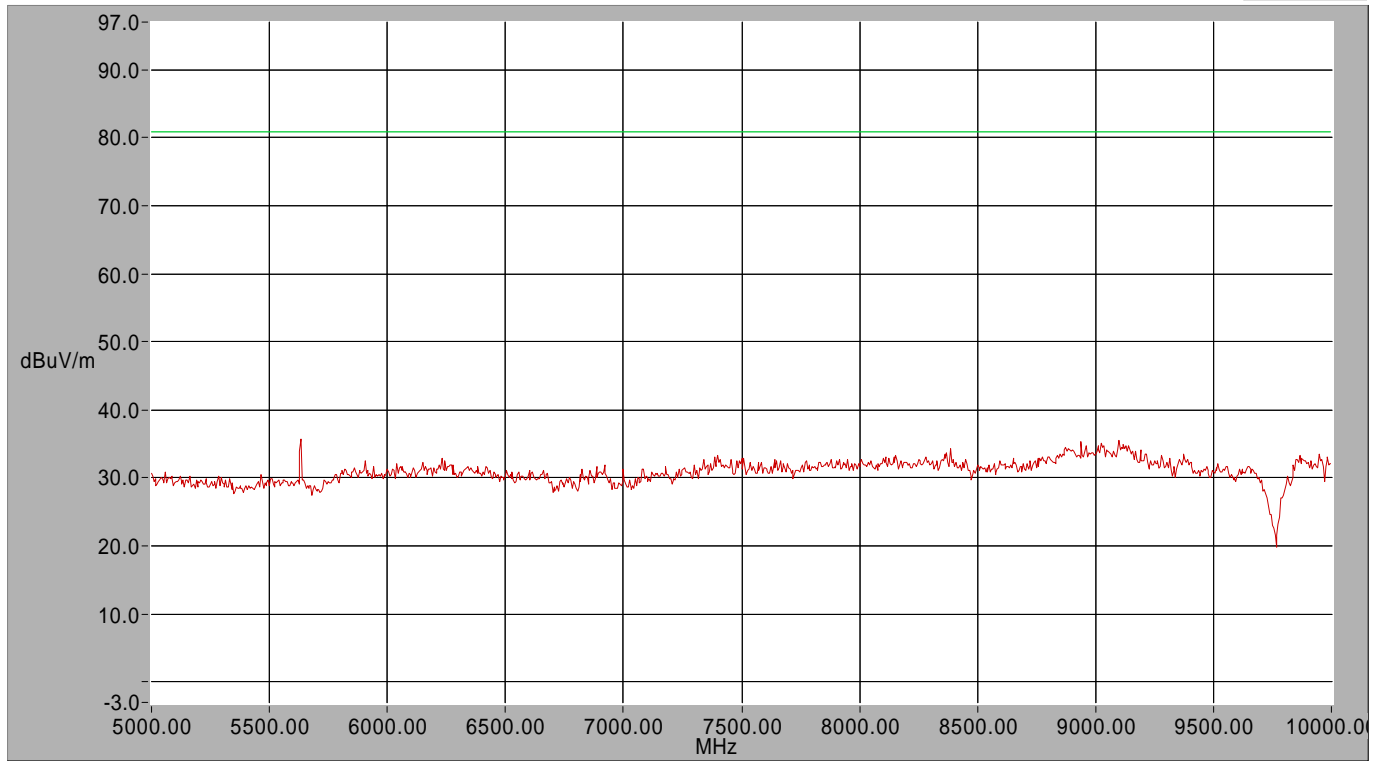
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

11:57 AM

EMI   
AMB   
LIM 

Plot Number: 30



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW: 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 0.00 dB

Associated Files	
ofts3m.dat	16/6/1999
09588h3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903






**Radiated Emissions  
Horizontal Polarity  
FCC PART 22**

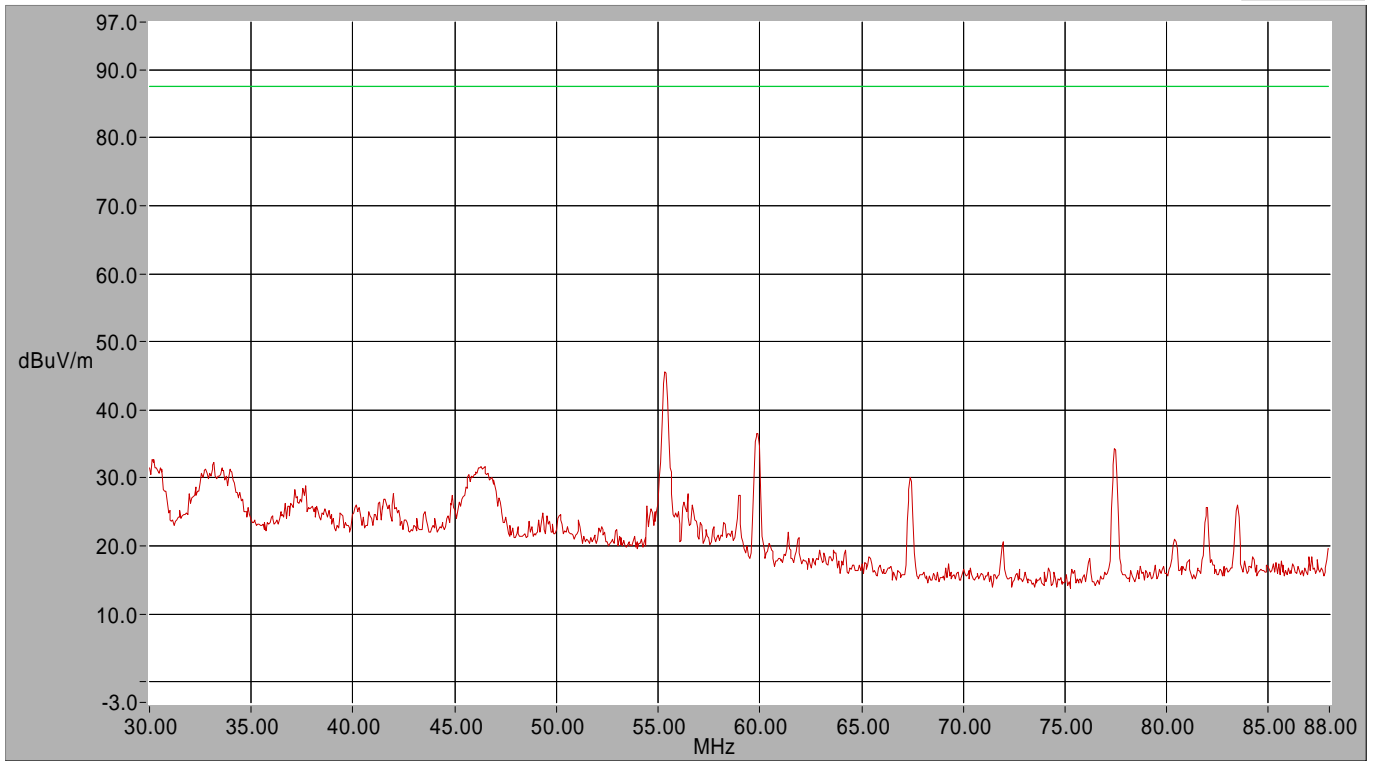
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 27, 1999 1:33 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

1:33 PM

EMI   
AMB   
LIM 

Plot Number: 31



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 16/6/1999  
04318h3.dat 23/4/1998  
limit.dat 2/9/1999

**Radiated Emissions  
Horizontal Polarity  
FCC PART 22**

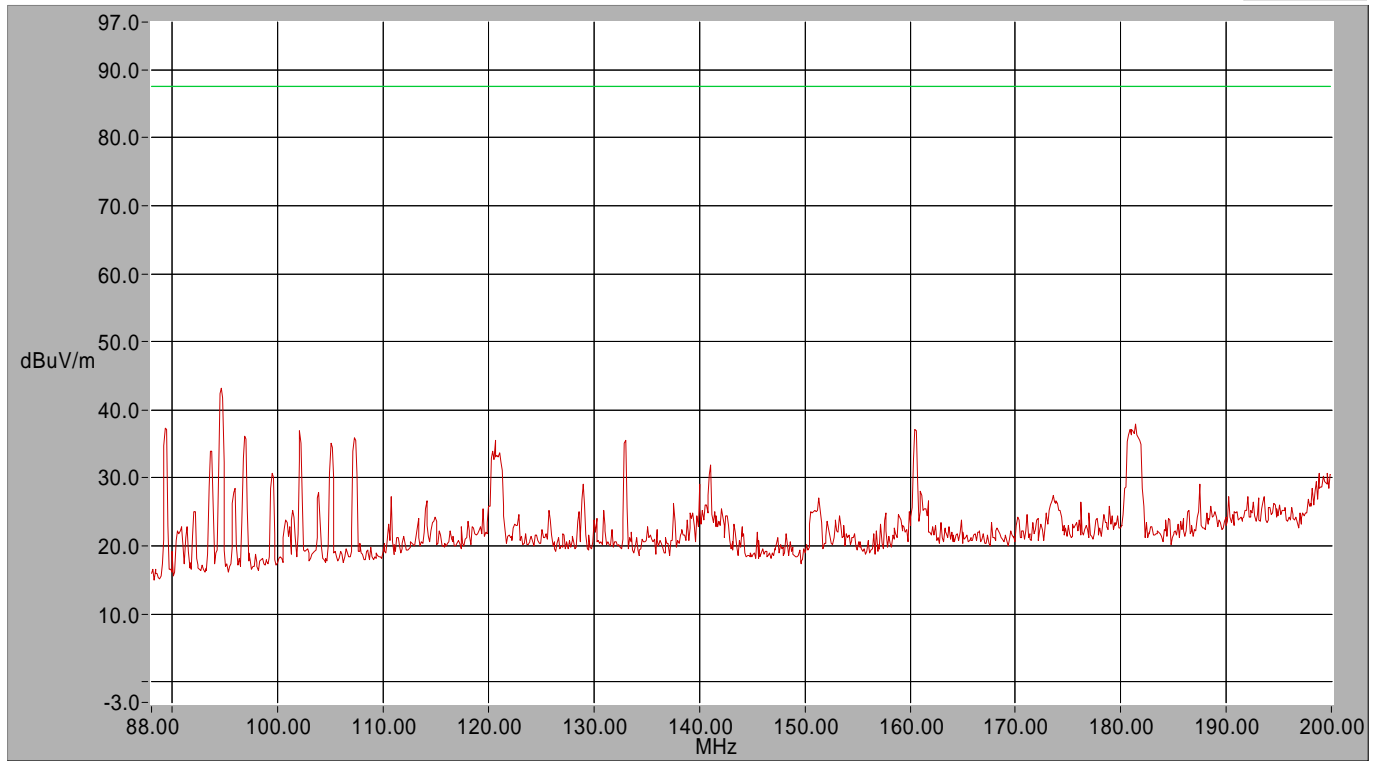
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 27, 1999 1:40 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

1:40 PM

EMI   
AMB   
LIM 

Plot Number: 32



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	16/6/1999
04318h3.dat	23/4/1998
limit.dat	2/9/1999

**Radiated Emissions  
Horizontal Polarity  
FCC PART 22**

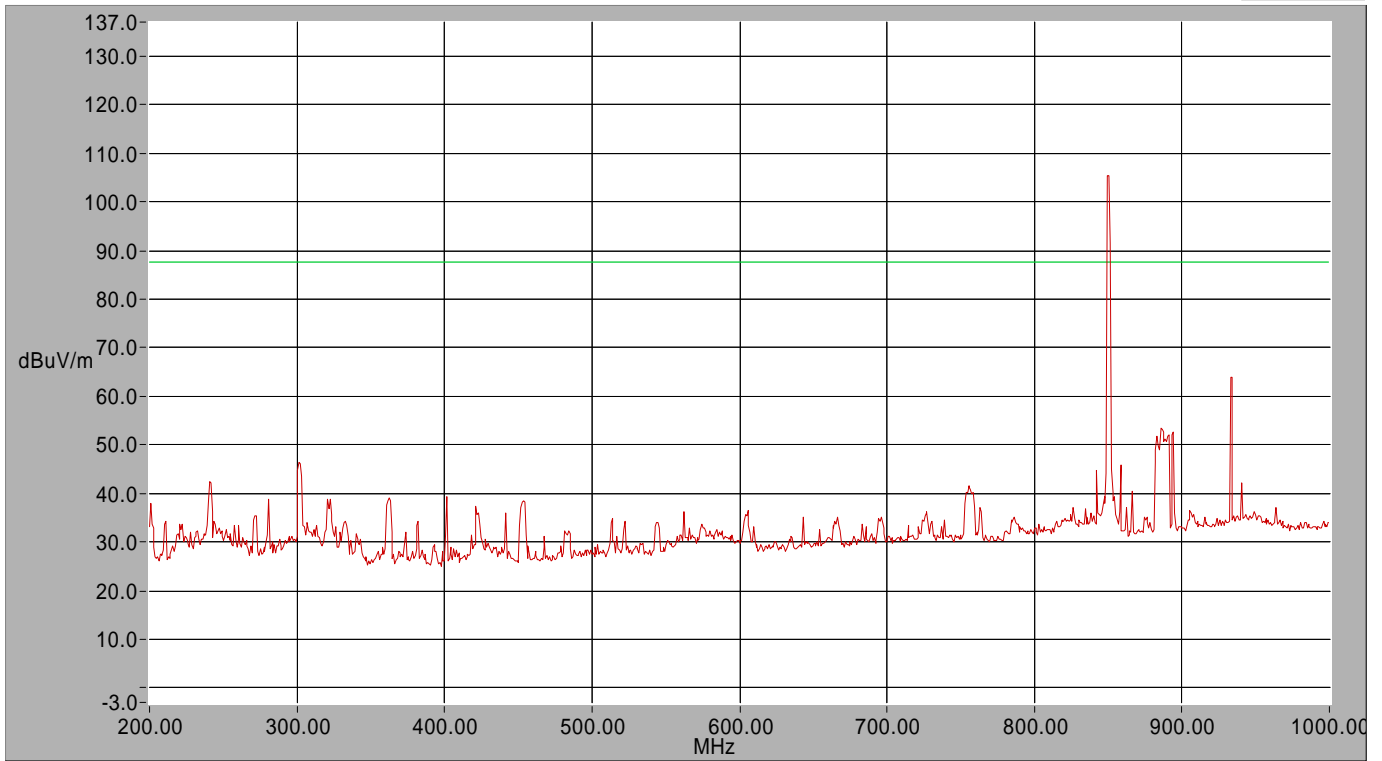
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldberg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

1:46 PM

EMI   
AMB   
LIM 

Plot Number: 33



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 16/6/1999  
04318h3.dat 23/4/1998  
limit.dat 2/9/1999

# Radiated Emissions Horizontal Polarity FCC PART 22

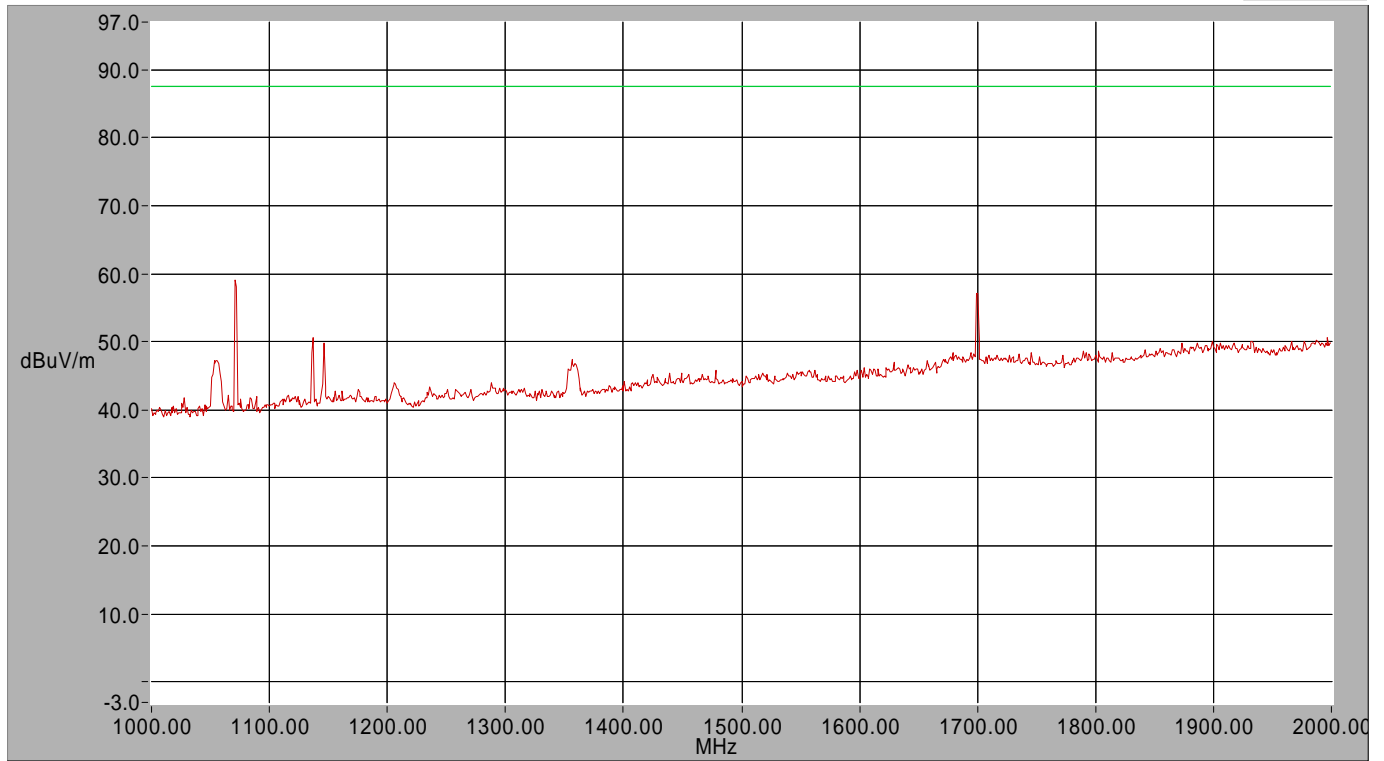
Title: Operational Tx  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 27, 1999 1:52 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

1:52 PM

EMI   
AMB   
LIM 

Plot Number: 34



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB  
RBW 1.000 MHz Ref. Lev: 97.00 dBuV/m An Atten: 0.00 dB




Associated Files	
ofts3m.dat	16/6/1999
04318h3.dat	23/4/1998
limit.dat	2/9/1999

# Radiated Emissions Horizontal Polarity FCC PART 22

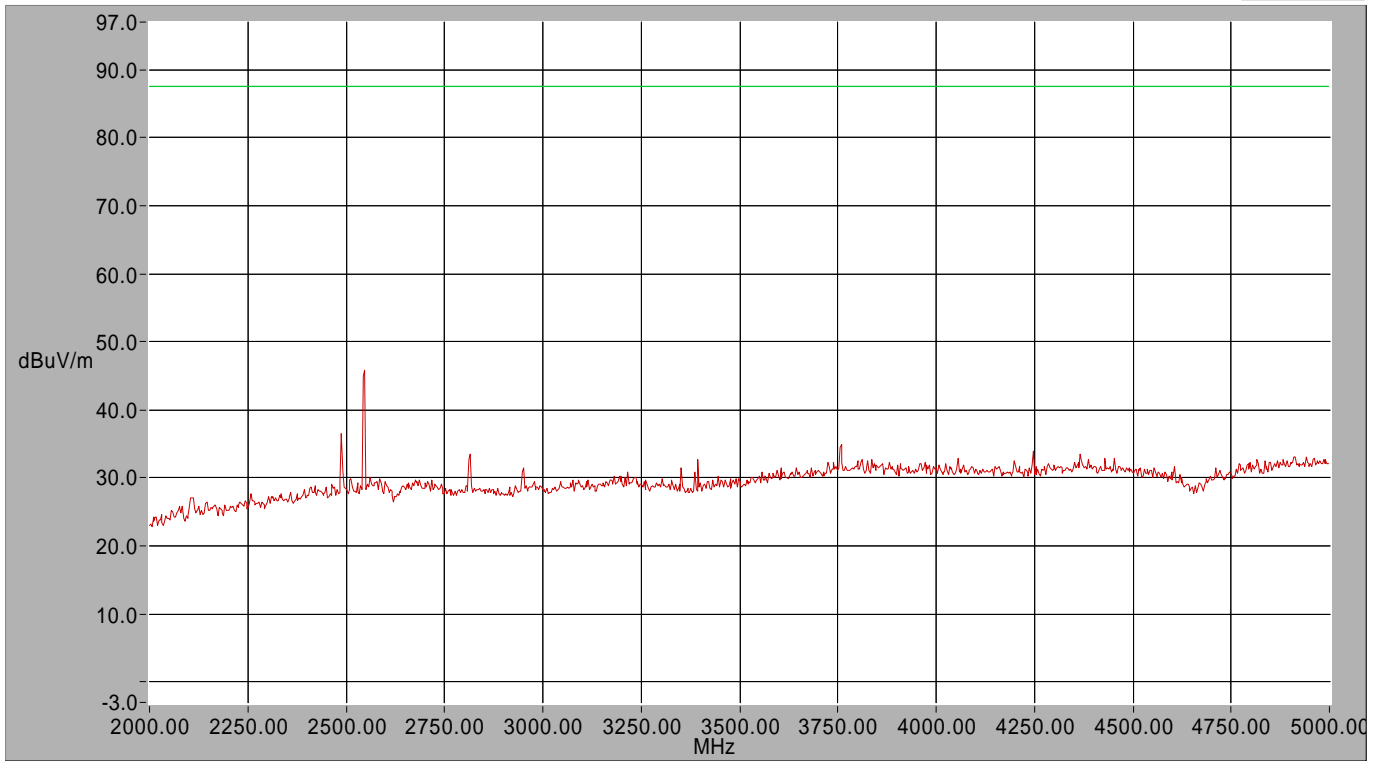
Title:  
Mode of Operation: Operational Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

11:43 AM

EMI   
AMB   
LIM 

Plot Number: 35



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 20.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588h3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903

# Radiated Emissions Horizontal Polarity FCC PART 22

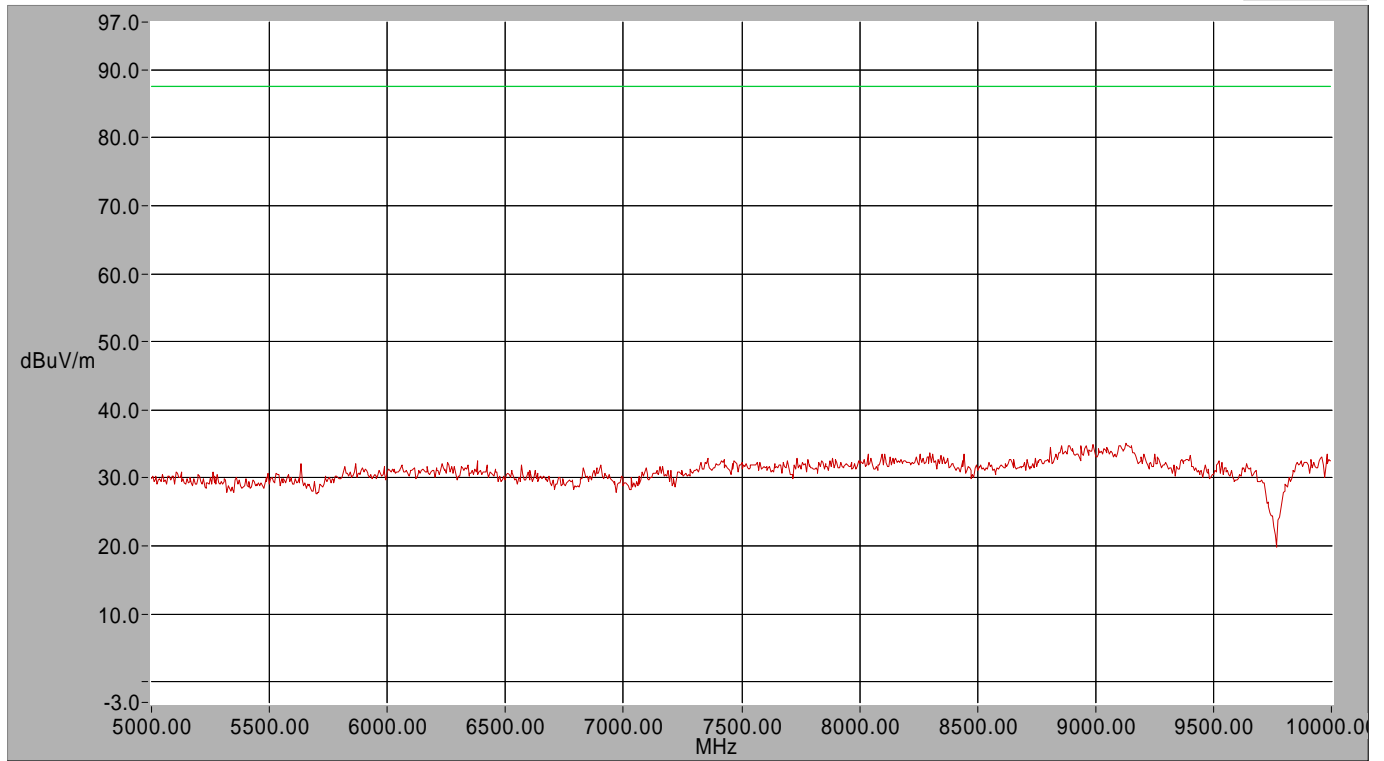
Title: Operationa Tx  
Mode of Operation: Operationa Tx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799 (848.97 MHz TX)

Date & Time: August 28, 1999 11:48 AM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

11:48 AM

EMI   
AMB   
LIM 

Plot Number: 36



VBW: 1.000 MHz  
RBW: 1.000 MHz

Sweep Time: Auto  
Ref. Lev: 97.00 dBuV/m

PR Atten: 0.00 dB  
An Atten: 0.00 dB

#### Associated Files

ofts3m.dat	16/6/1999
09588h3.dat	9/5/1997
limit.dat	2/9/1999
	31/12/1903






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

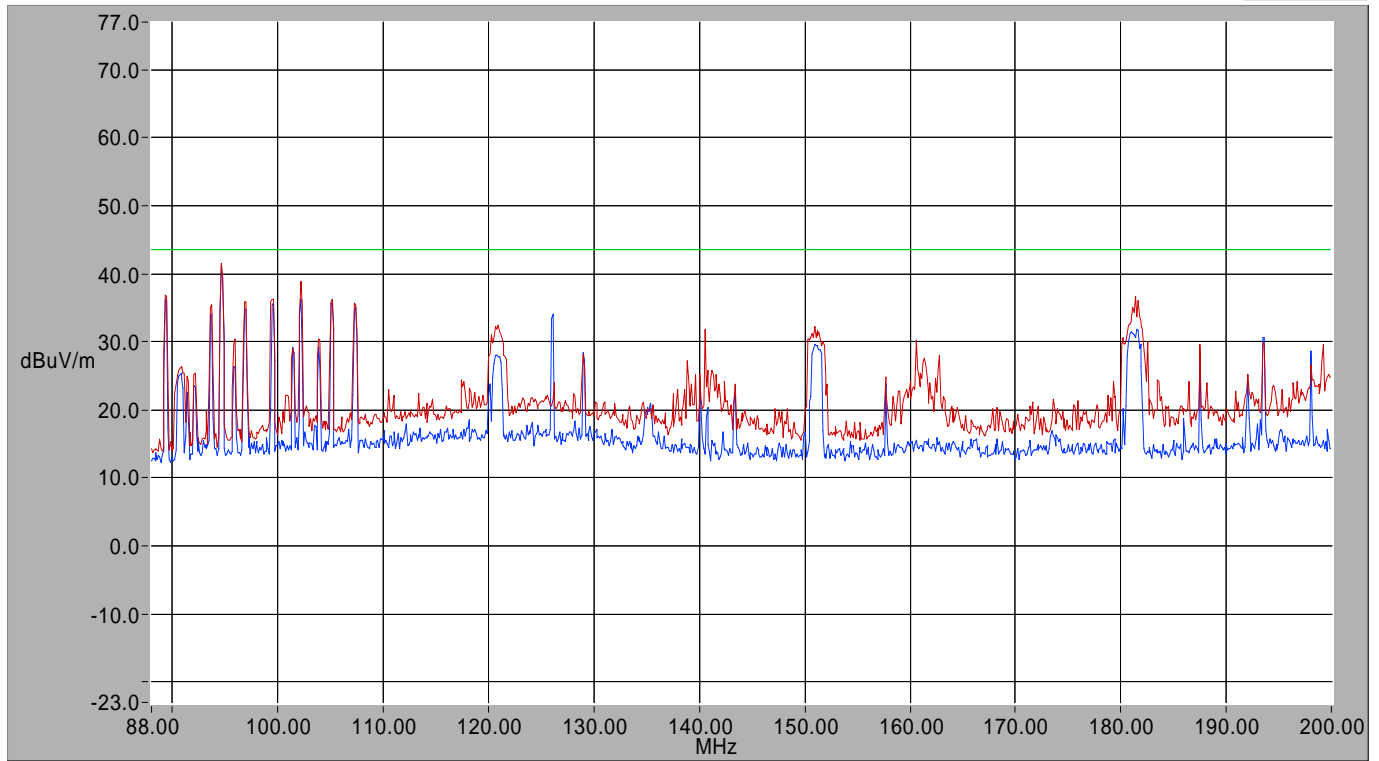
Title: Operational RX  
Mode of Operation: Operational RX  
Distance: 3 meters  
Technologist: Jeffery Taylor  
Comments: Channel 991

Date & Time: September 2, 1999 11:14 PM  
Project #: 302A17  
Company: Novatel Wireless  
Product: Merlin  
Serial #: 01.6D

11:14 PM

EMI   
AMB   
LIM 

Plot Number: 5



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 16/6/1999  
04318h3.dat 23/4/1998  
FCC15B3.DAT 20/8/1998








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

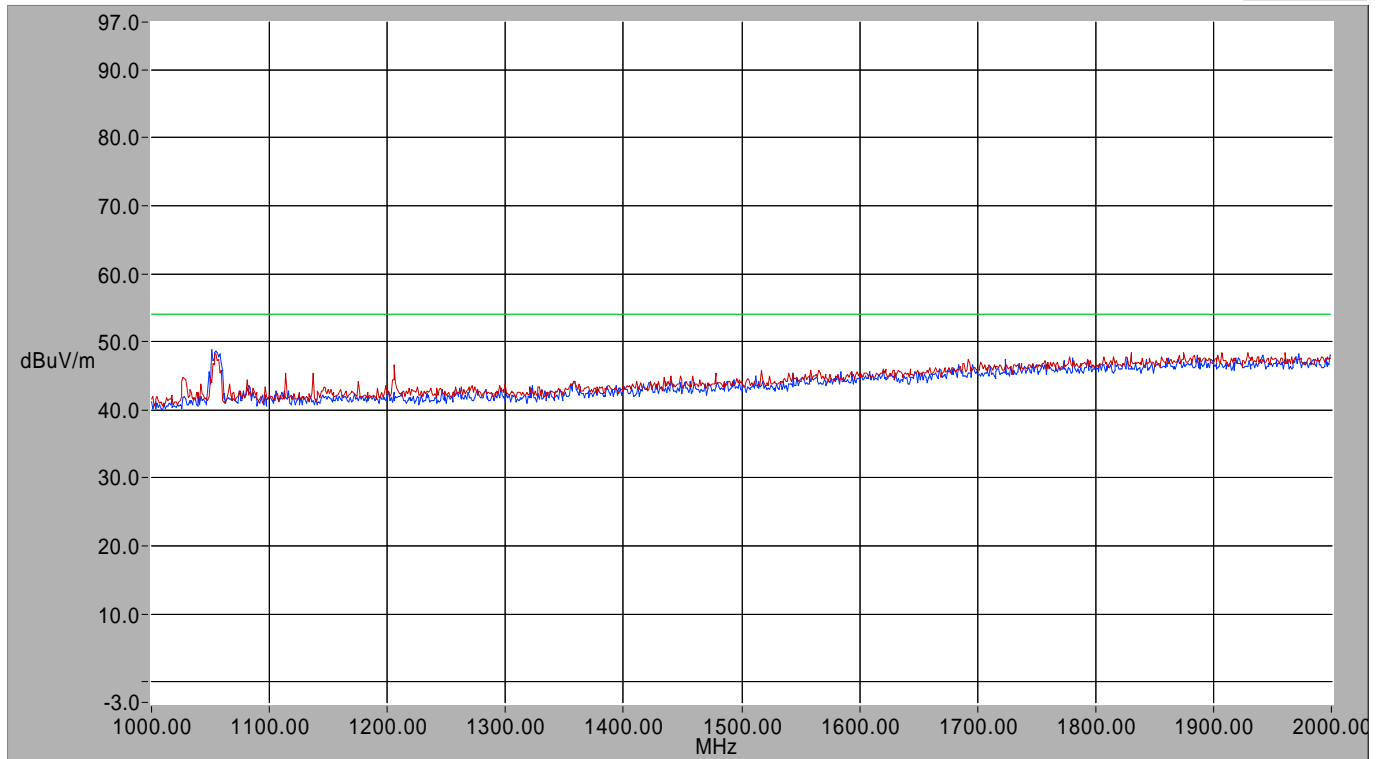
Title: 1 - 2 GHz  
Mode of Operation: Receiver Mode  
Distance: 3 meters  
Technologist: Jeffery Taylor  
Comments: Channel 991 (869.04 MHz RX)

Date & Time: 9:26 AM  
Project #: 302A17  
Company: Novatel Wireless  
Product: Merlin  
Serial #: 01.6D

August 24, 1999

EMI   
AMB   
LIM 

Plot Number: 1



VBW: 300.000 kHz    Sweep Time: Auto    PR Atten: 0.00 dB  
RBW: 1.000 MHz    Ref. Lev: 97.00 dBuV/m    An Atten: 0.00 dB

Associated Files  
ofts3m.dat    16/6/1999  
09588h3.dat    9/5/1997  
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)	RESULT
1828.080	46	134	5.80	27.97	5.74	0.00	39.52	53.98	Pass

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

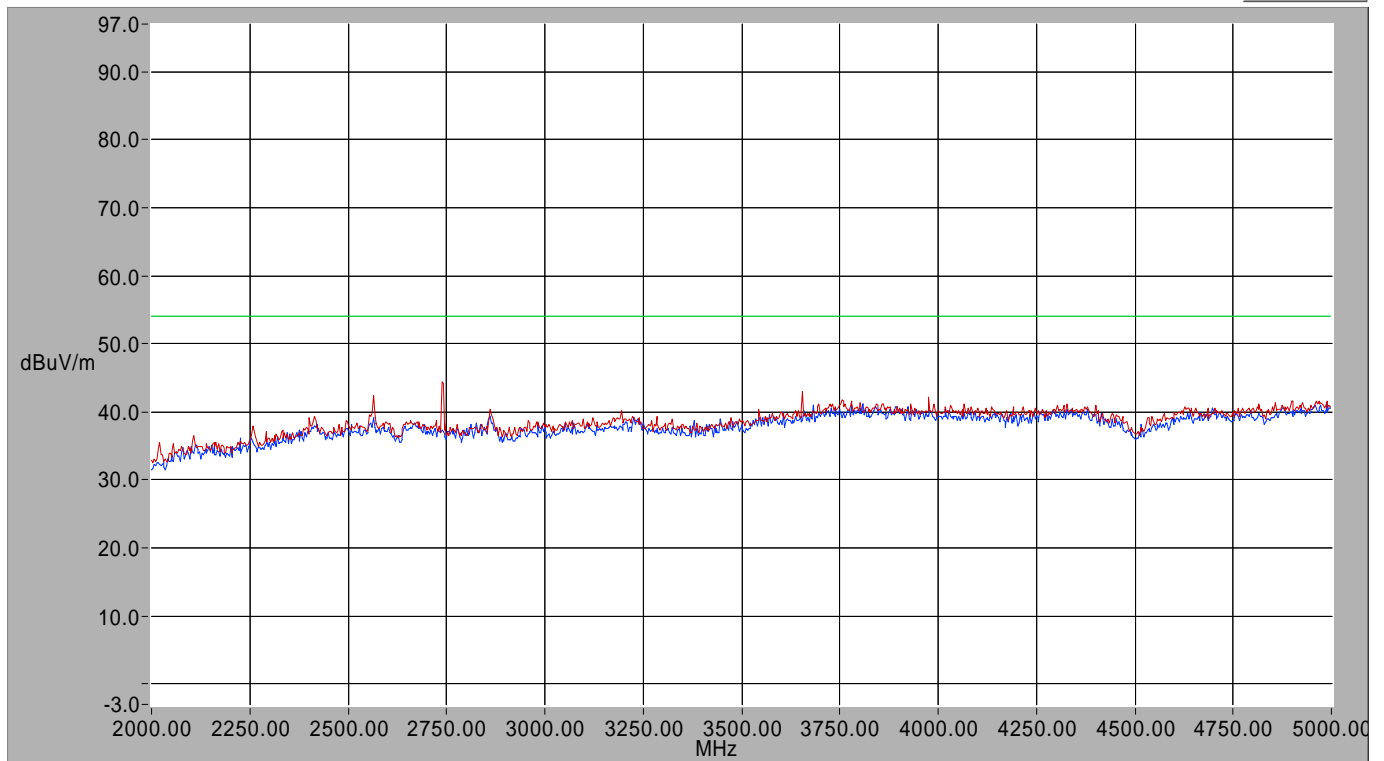
Title: 2 - 5 GHz  
Mode of Operation: Receiver Mode  
Distance: 3 meters  
Technologist: Jeffery Taylor  
Comments: Channel 991 (869.04 MHz RX)

Date & Time: August 24, 1999  
Project #: 302A17  
Company: Novatel Wireless  
Product: Merlin  
Serial #: 01.6D

10:37 AM

EMI   
AMB   
LIM 

Plot Number: 1



VBW: 1.000 MHz Sweep Time: Auto PR Atten: 0.00 dB  
RBW 1.000 MHz Ref. Lev: 97.00 dBuV/m An Atten: 20.00 dB

Associated Files  
ofts3m.dat 16/6/1999  
09588h3.dat 9/5/1997  
FCC15B3.DAT 20/8/1998  
31/12/1903

**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)	RESULT
2742.120	241	176	66.30	31.49	7.60	-62.88	42.51	53.98	Pass
3656.160	214	138	53.90	33.65	8.41	-63.01	32.95	53.98	Pass






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

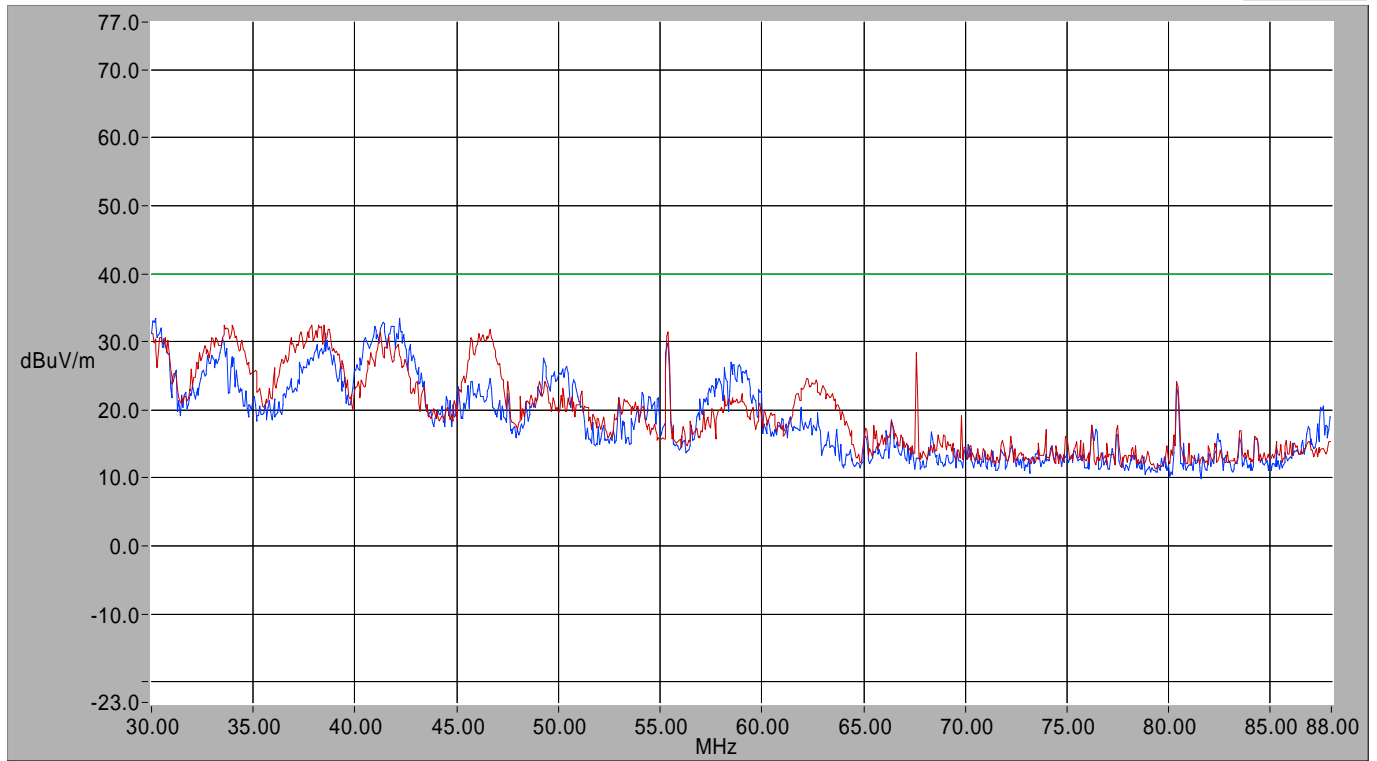
Title:  
Mode of Operation: Operational RX  
Distance: 3 meters  
Technologist: Jeffery Taylor  
Comments: Channel 991

Date & Time: September 2, 1999 10:45 PM  
Project #: 302A17  
Company: Novatel Wireless  
Product: Merlin  
Serial #: 01.6D

10:45 PM

EMI   
AMB   
LIM 

Plot Number: 1



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	16/6/1999
04318v3.dat	23/4/1998
FCC15B3.DAT	20/8/1998






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

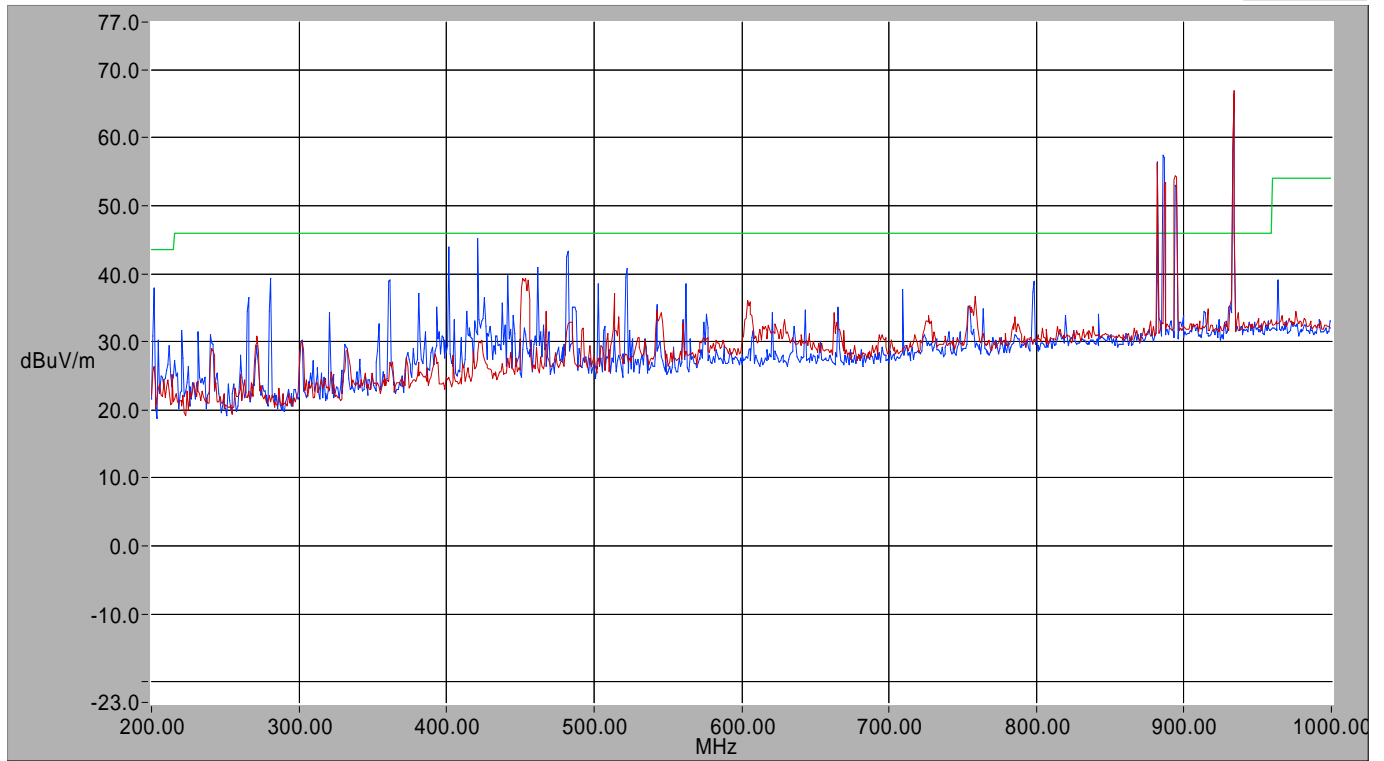
Title: Operational RX  
Mode of Operation: Operational RX  
Distance: 3 meters  
Technologist: Jeffery Taylor  
Comments: Channel 991

Date & Time: September 2, 1999 11:03 PM  
Project #: 302A17  
Company: Novatel Wireless  
Product: Merlin  
Serial #: 01.6D

11:03 PM

EMI   
AMB   
LIM 

Plot Number: 3



VBW: 300.000 kHz Sweep Time: 100.00 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 16/6/1999  
04318v3.dat 23/4/1998  
FCC15B3.DAT 20/8/1998








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

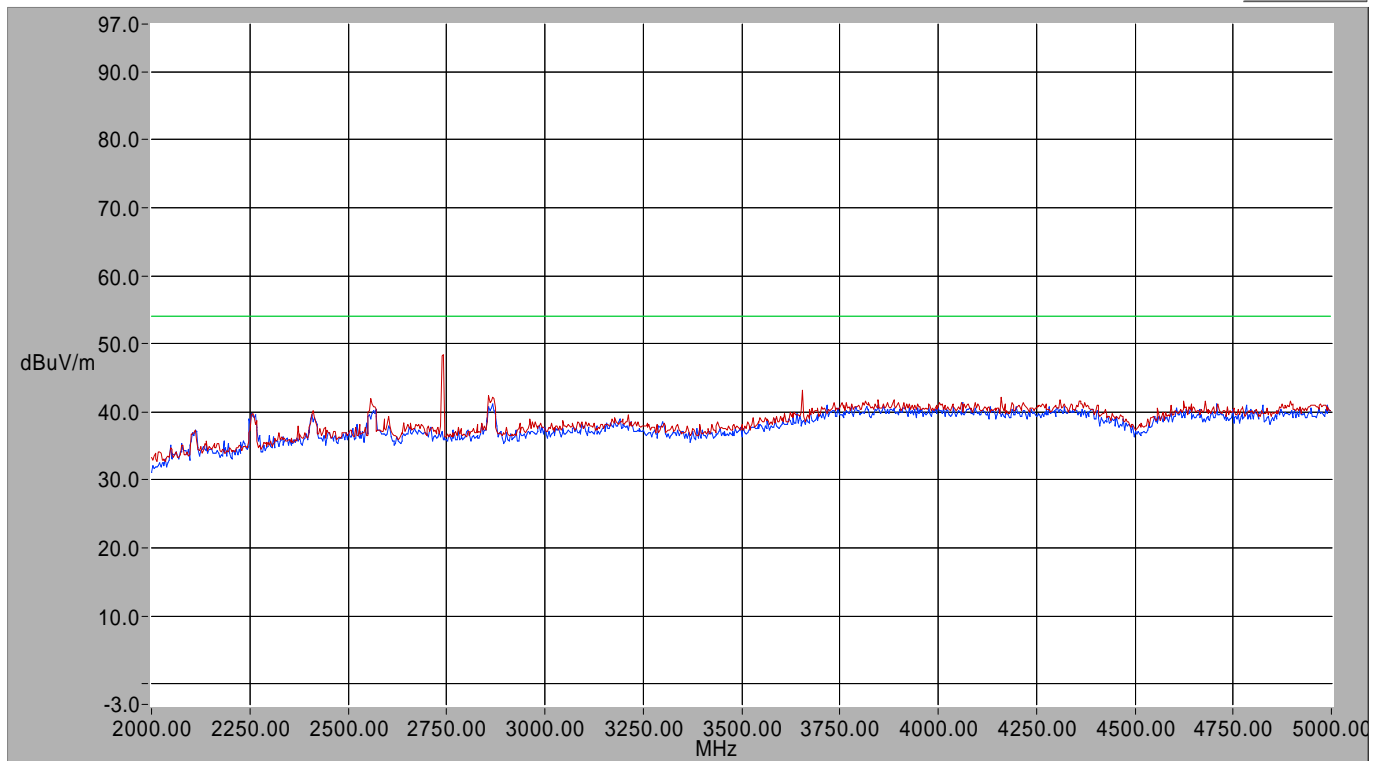
Title: 2 - 5 GHz  
Mode of Operation: Receiver Mode  
Distance: 3 meters  
Technologist: Jeffery Taylor  
Comments: Channel 991 (869.04 MHz RX)

Date & Time: 9:59 AM  
Project #: 302A17  
Company: Novatel Wireless  
Product: Merlin  
Serial #: 01.6D

August 24, 1999

EMI   
AMB   
LIM 

Plot Number: 4



VBW: 1.000 MHz    Sweep Time: Auto    PR Atten: 0.00 dB  
RBW: 1.000 MHz    Ref. Lev: 97.00 dBuV/m    An Atten: 20.00 dB

Associated Files  
ofts3m.dat    16/6/1999  
09588v3.dat    9/5/1997  
FCC15B3.DAT    20/8/1998  
                  31/12/1903

**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)	RESULT
2742.120	66	181	73.20	30.93	7.60	-62.88	48.85	53.98	Pass
3656.160	294	162	62.90	33.36	8.41	-63.01	41.66	53.98	Pass
4570.200	245	256	54.10	34.43	9.94	-63.09	35.38	53.98	Pass

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

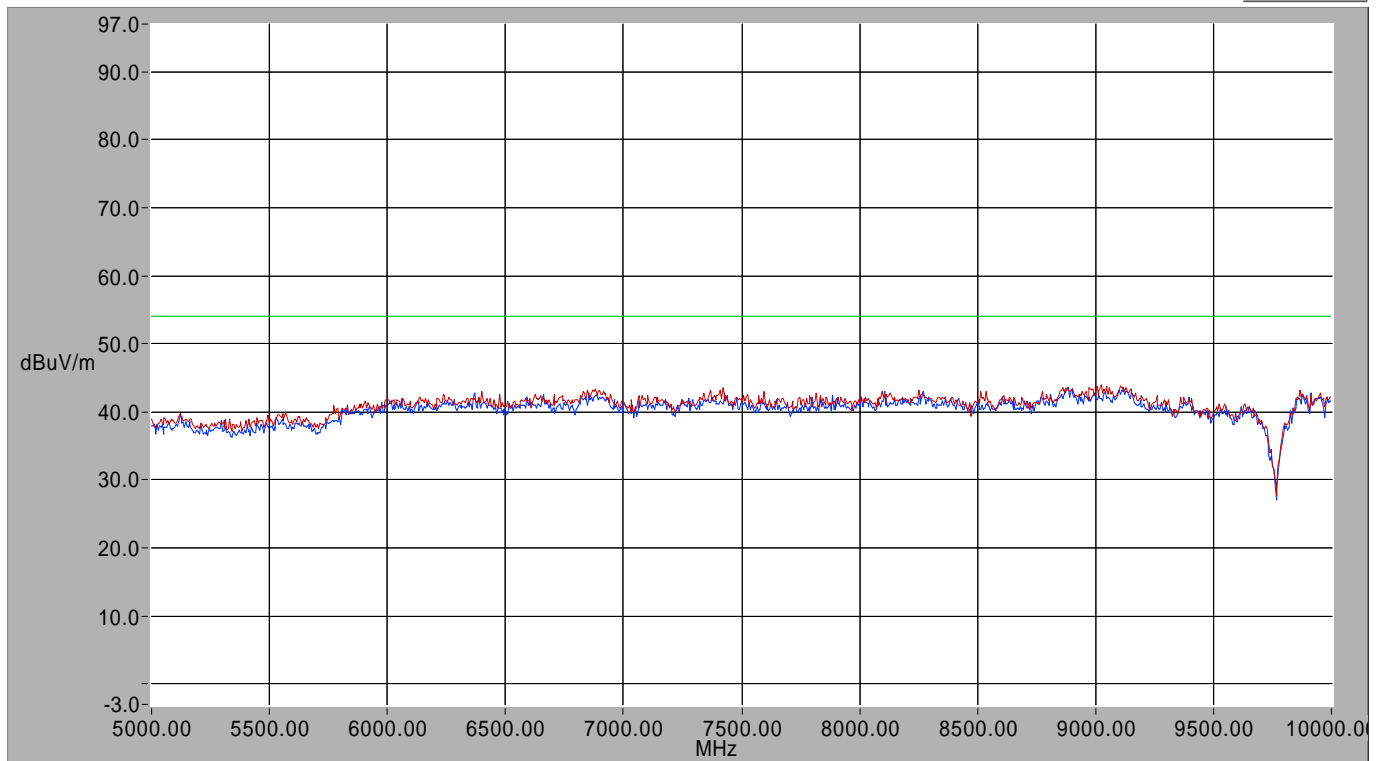
Title: 5 - 10 GHz  
Mode of Operation: Receiver Mode  
Distance: 3 meters  
Technologist: Jeffery Taylor  
Comments: Channel 991 (869.04 MHz RX)

Date & Time: August 24, 1999  
Project #: 302A17  
Company: Novatel Wireless  
Product: Merlin  
Serial #: 01.6D

10:32 AM

EMI   
AMB   
LIM 

Plot Number: 5



VBW: 1.000 MHz    Sweep Time: Auto    PR Atten: 0.00 dB  
RBW: 1.000 MHz    Ref. Lev: 97.00 dBuV/m    An Atten: 0.00 dB

Associated Files  
ofts3m.dat    16/6/1999  
09588v3.dat    9/5/1997  
FCC15B3.DAT    20/8/1998  
                  31/12/1903

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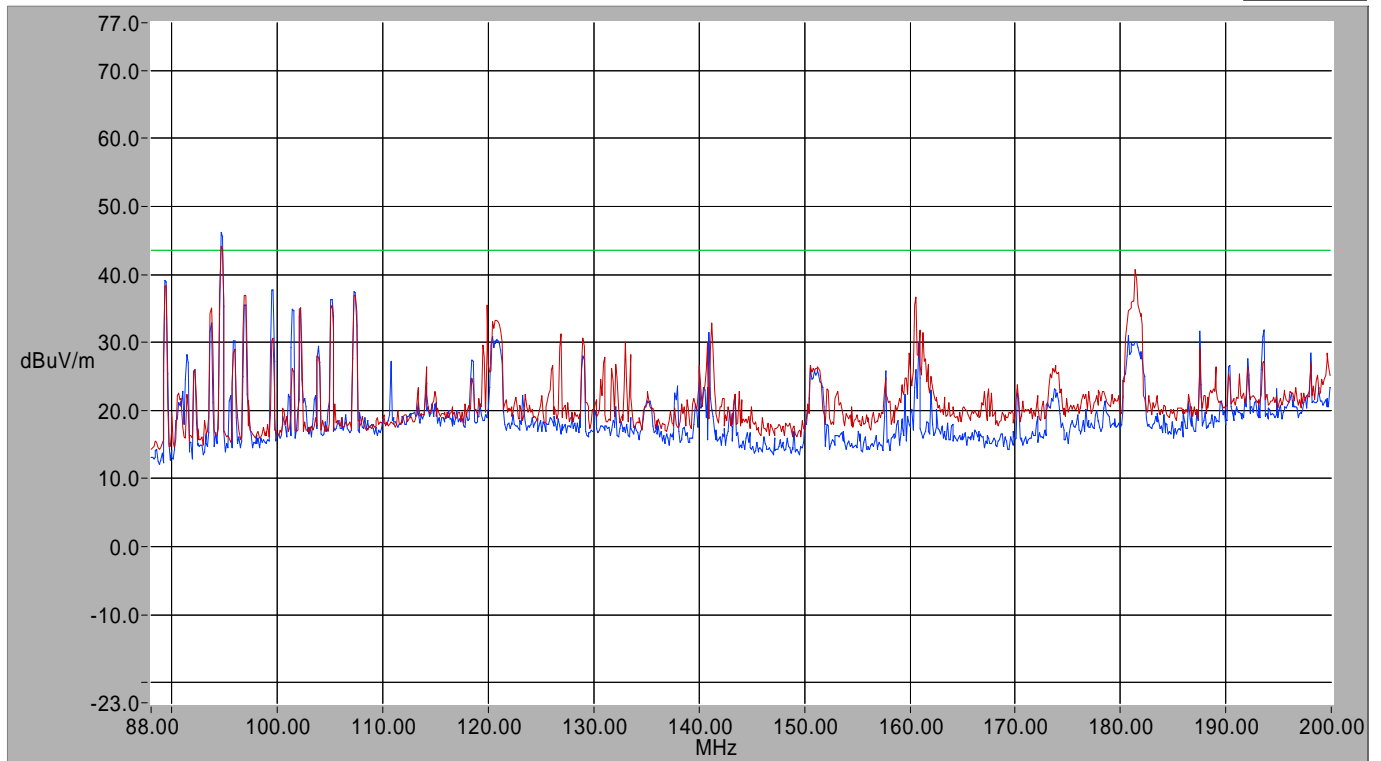
**Radiated Emissions  
Horizontal Polarity  
FCC Part 15 Class B 3m**

Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384

Date & Time: August 27, 1999 3:19 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

Plot Number: 2

EMI   
AMB   
LIM 



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	16/6/1999
04318h3.dat	23/4/1998
FCC15B3.DAT	20/8/1998

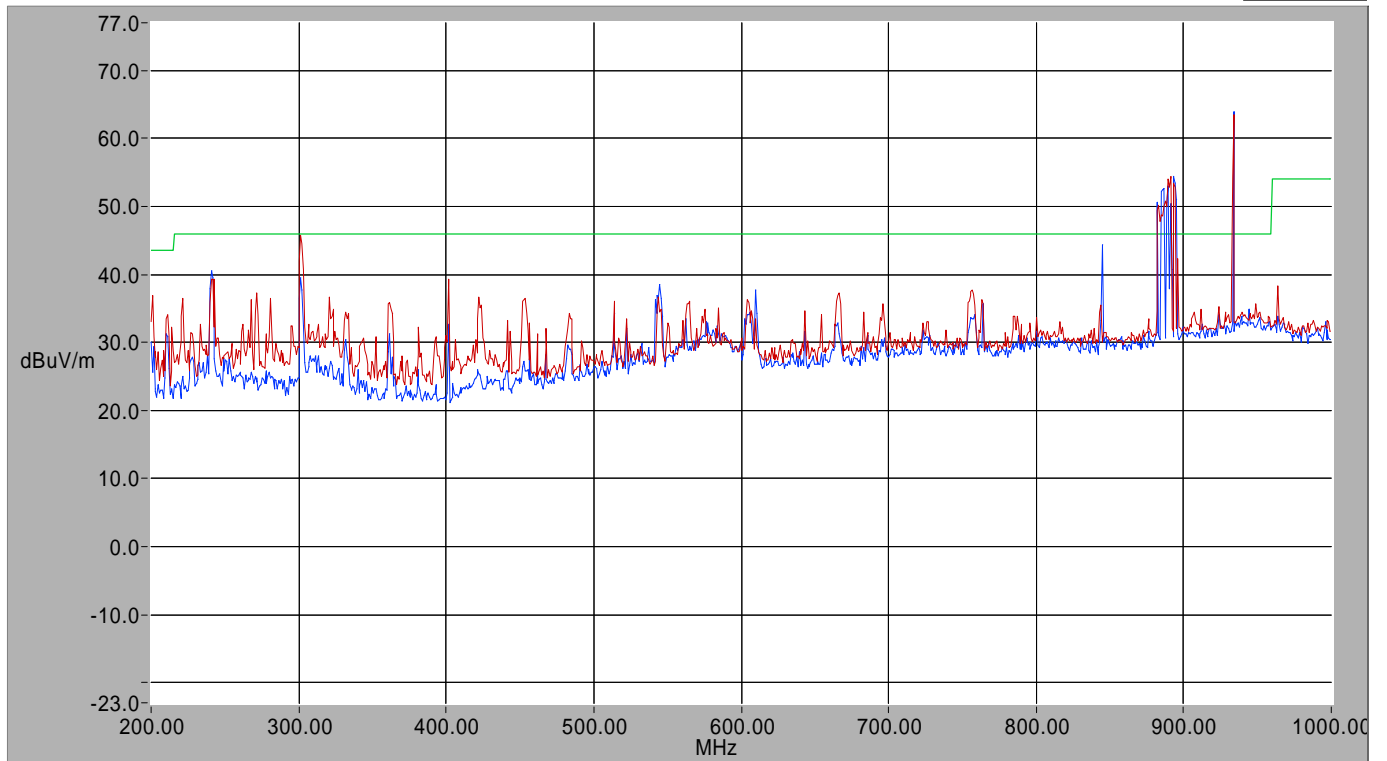
**Radiated Emissions  
Horizontal Polarity  
FCC Part 15 Class B 3m**

Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldberg  
Comments: Channel 384

Date & Time: August 27, 1999 3:24 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

Plot Number: 3

EMI   
AMB   
LIM 



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 16/6/1999  
04318h3.dat 23/4/1998  
FCC15B3.DAT 20/8/1998

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

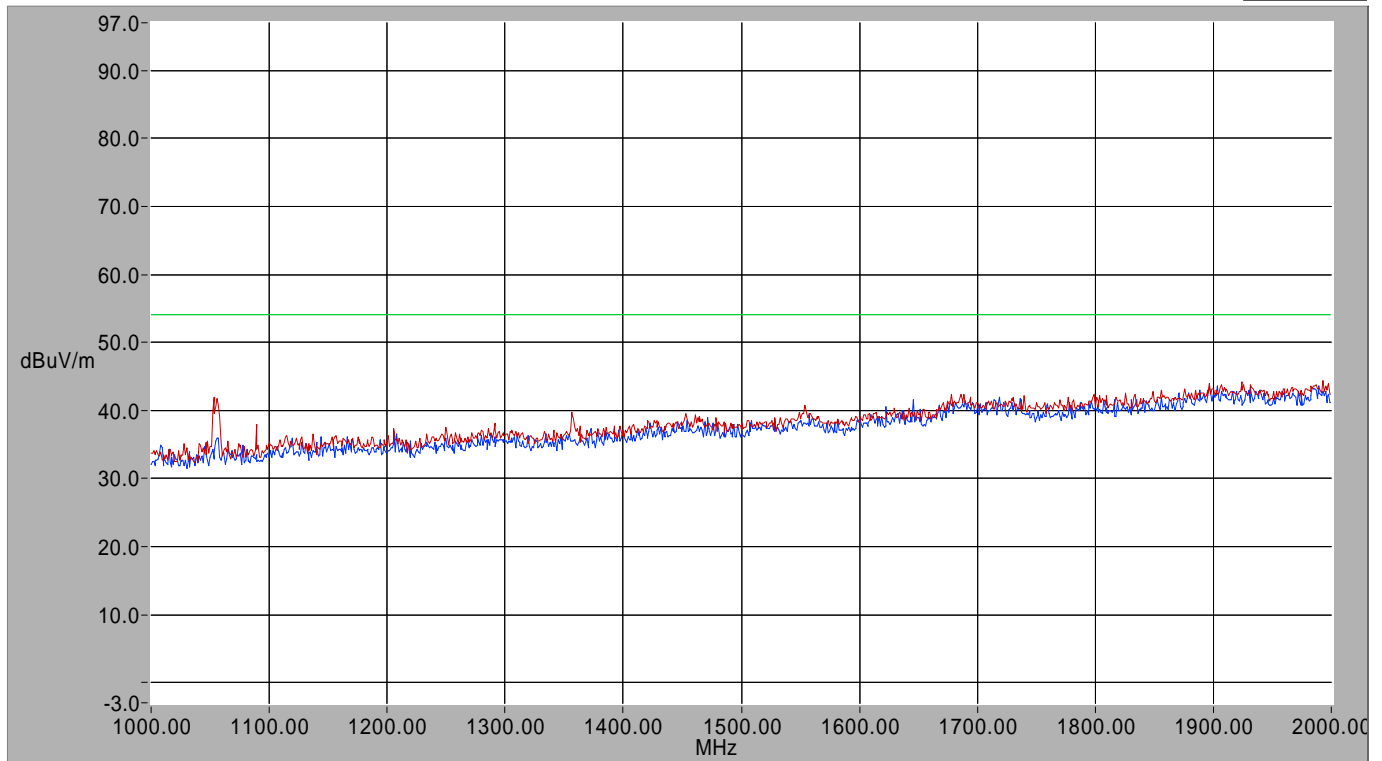
Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

3:28 PM

EMI   
AMB   
LIM 

Plot Number: 4



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB  
RBW: 1.000 MHz Ref. Lev: 97.00 dBuV/m An Atten: 0.00 dB




Associated Files  
ofts3m.dat 16/6/1999  
04318h3.dat 23/4/1998  
FCC15B3.DAT 20/8/1998

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

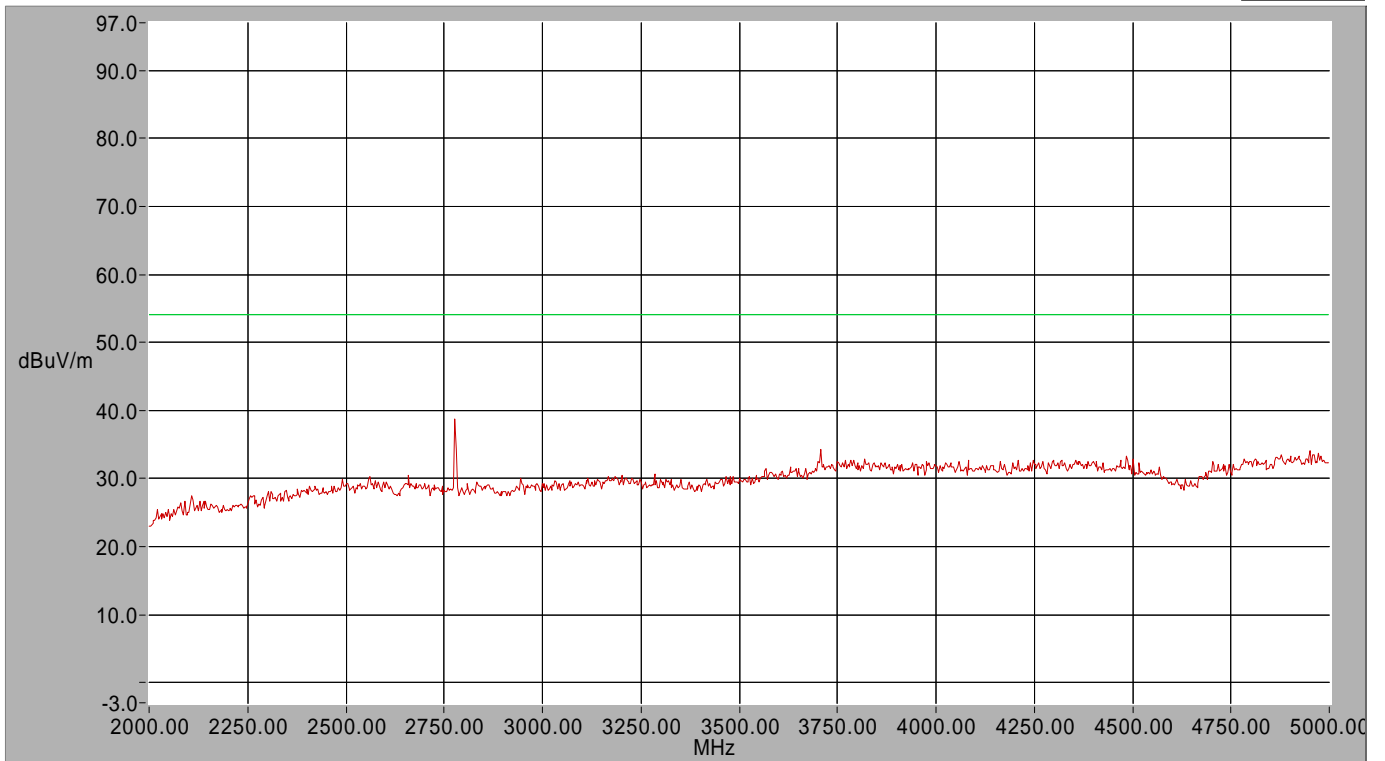
Title: Operational Rx  
 Mode of Operation: Operational Rx  
 Distance: 3 meters  
 Technologist: Ian Guldborg  
 Comments: Channel 384

Date & Time: August 28, 1999  
 Project #: 302A17  
 Company: Novatel  
 Product: Merlin  
 Serial #: 01.6d

9:41 AM

EMI   
 AMB   
 LIM 

Plot Number: 5



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW: 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 20.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588h3.dat	9/5/1997
FCC15B3.DAT	20/8/1998
	31/12/1903

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

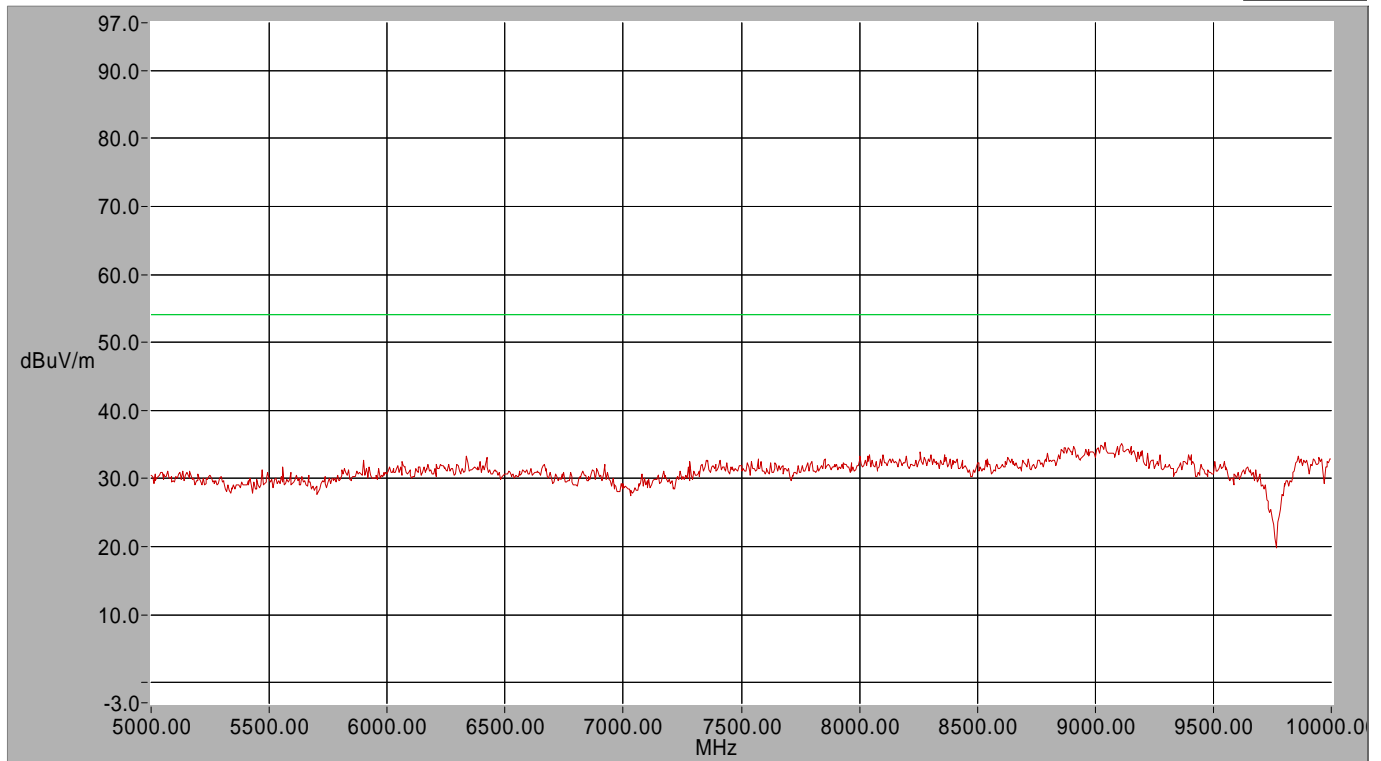
Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

9:46 AM

EMI   
AMB   
LIM 

Plot Number: 6



VBW: 1.000 MHz    Sweep Time: Auto    PR Atten: 0.00 dB  
RBW: 1.000 MHz    Ref. Lev: 97.00 dBuV/m    An Atten: 0.00 dB

Associated Files  
ofts3m.dat    16/6/1999  
09588h3.dat    9/5/1997  
FCC15B3.DAT    20/8/1998  
                  31/12/1903






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

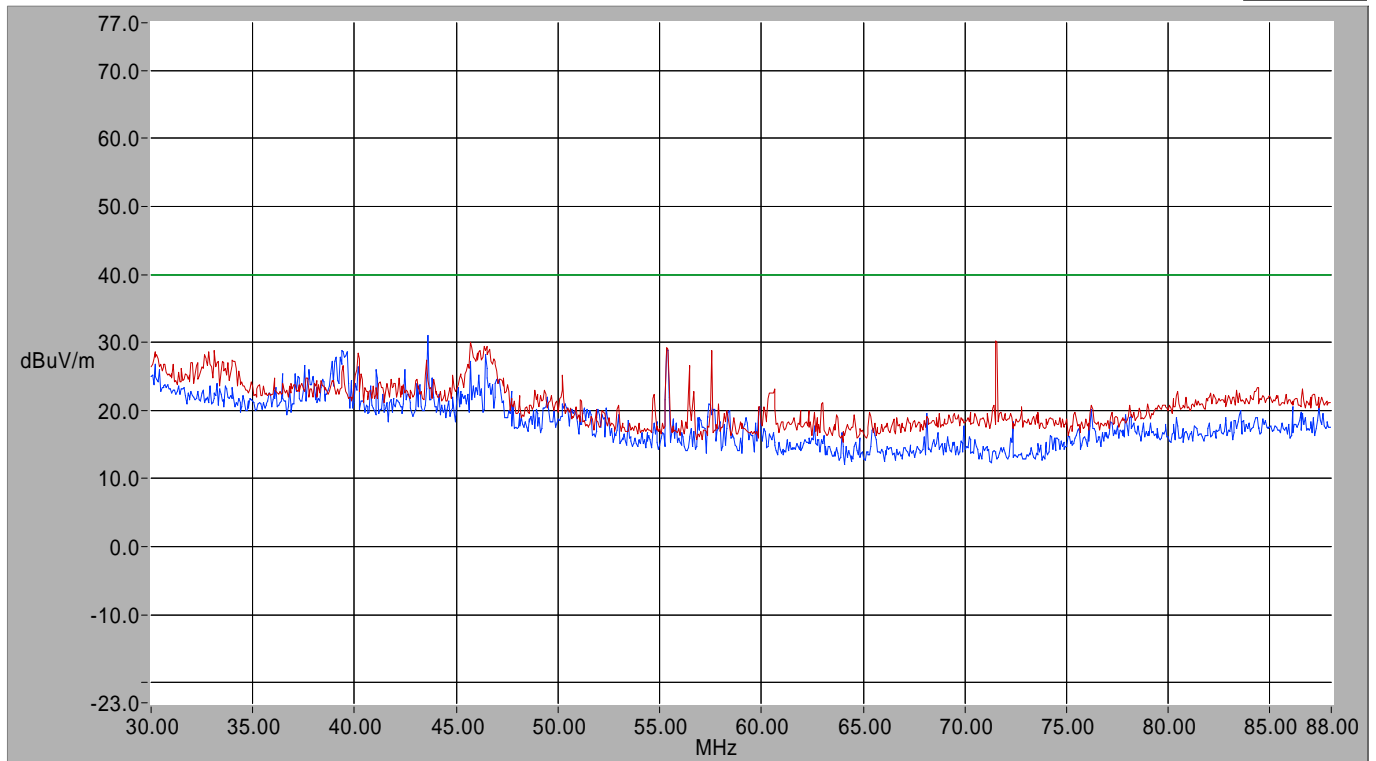
Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

3:32 PM

EMI   
AMB   
LIM 

Plot Number: 7



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	16/6/1999
04318v3.dat	23/4/1998
FCC15B3.DAT	20/8/1998

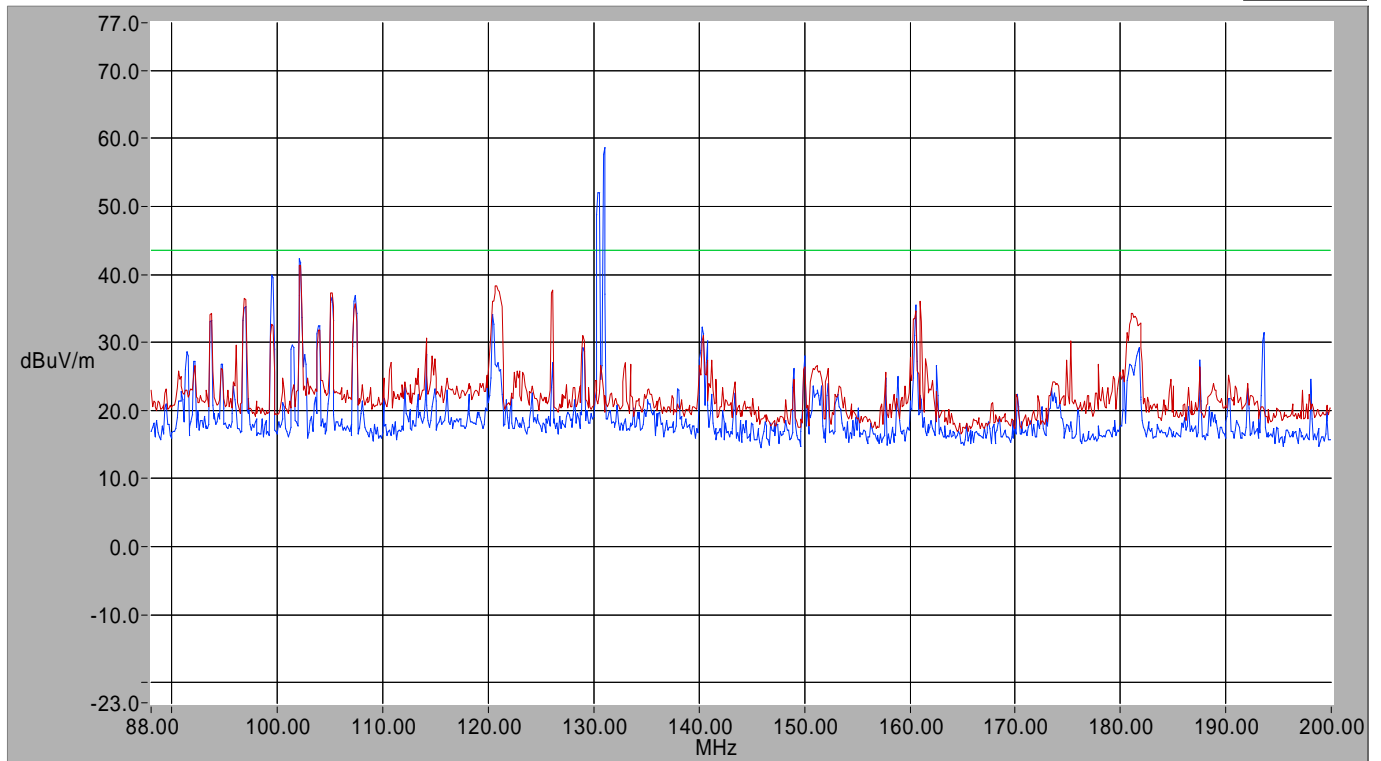
**Radiated Emissions  
Vertical Polarity  
FCC Part 15 Class B 3m**

Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384

Date & Time: August 27, 1999 3:38 PM  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

Plot Number: 8

EMI   
AMB   
LIM 



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 16/6/1999  
04318v3.dat 23/4/1998  
FCC15B3.DAT 20/8/1998

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

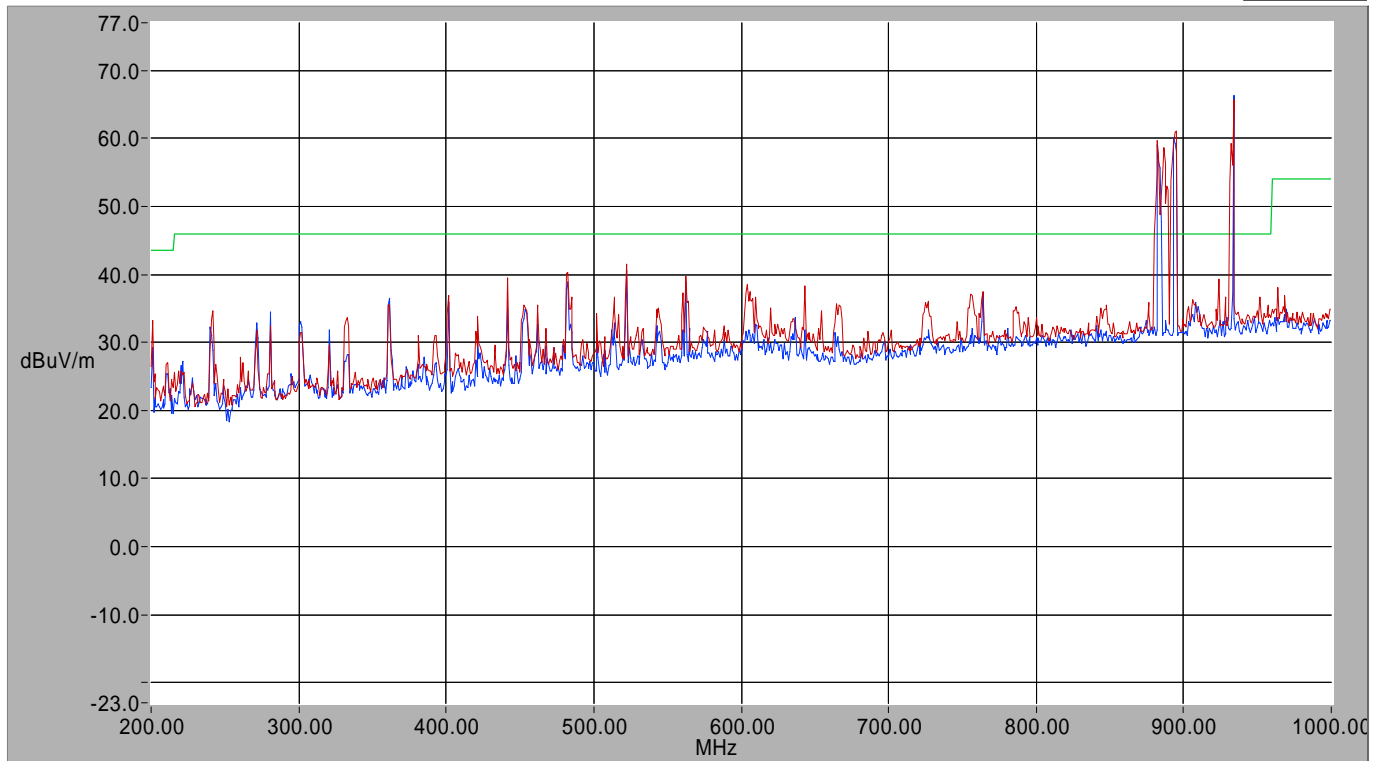
Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldberg  
Comments: Channel 384

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

8:56 AM

EMI   
AMB   
LIM 

Plot Number: 9



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	16/6/1999
04318v3.dat	23/4/1998
FCC15B3.DAT	20/8/1998

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

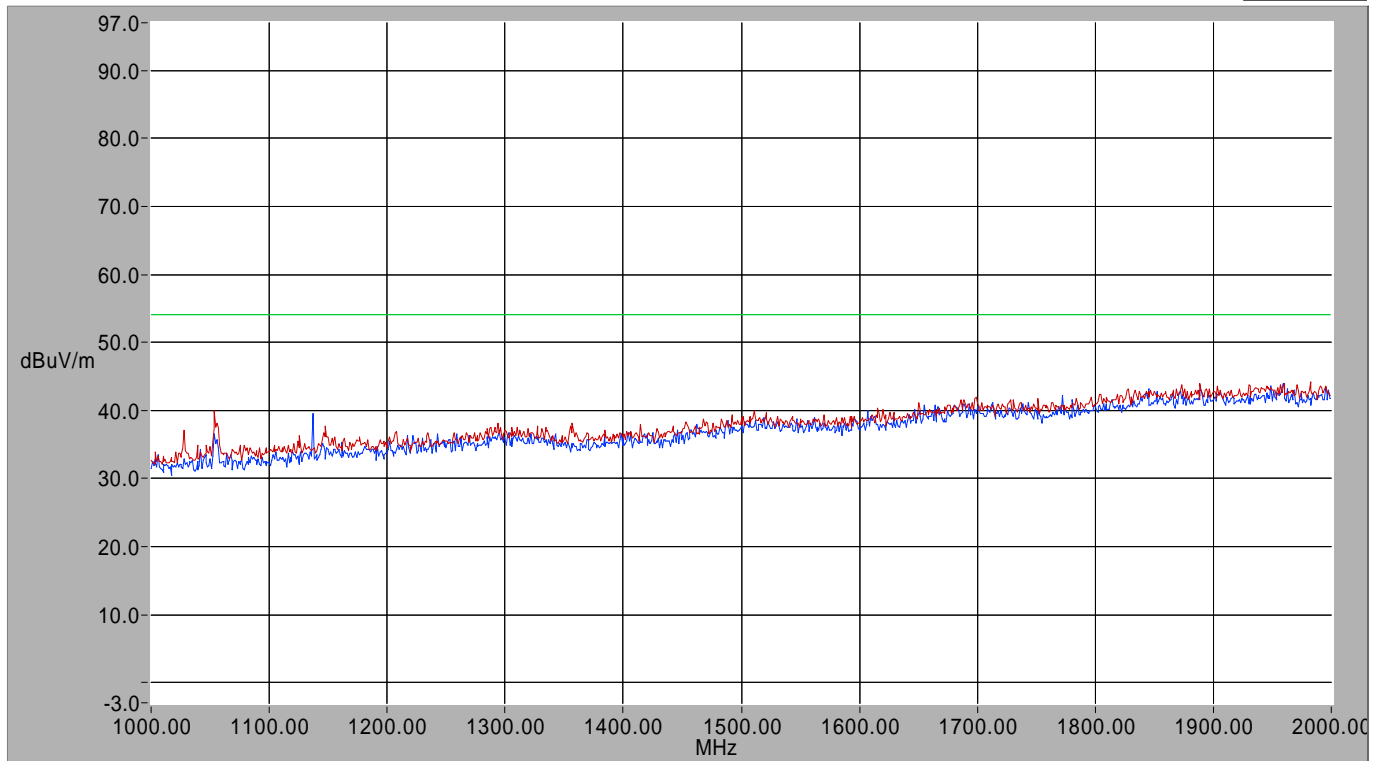
Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

3:52 PM

EMI   
AMB   
LIM 

Plot Number: 10



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB  
RBW: 1.000 MHz Ref. Lev: 97.00 dBuV/m An Atten: 0.00 dB




Associated Files	
ofts3m.dat	16/6/1999
04318v3.dat	23/4/1998
FCC15B3.DAT	20/8/1998

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

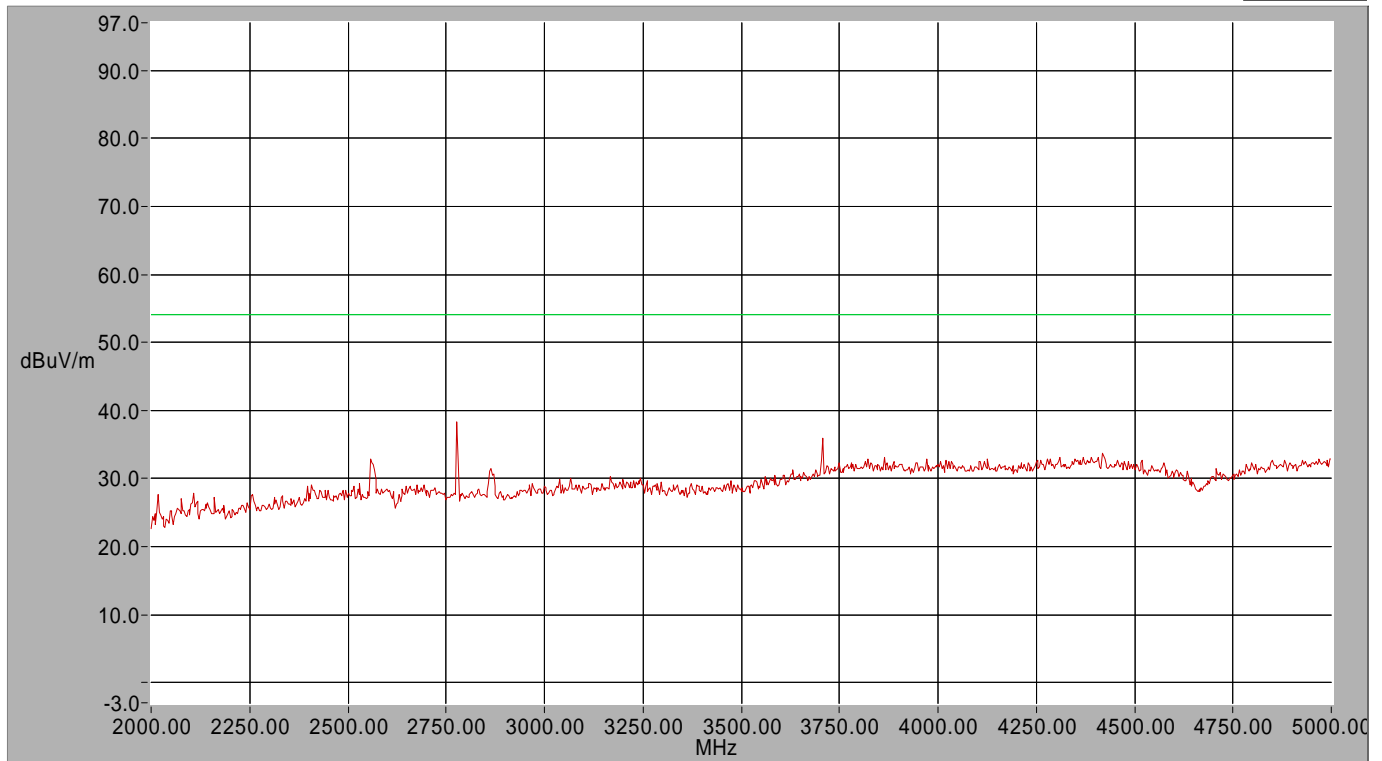
Title: Operational Rx  
 Mode of Operation: Operational Rx  
 Distance: 3 meters  
 Technologist: Ian Guldberg  
 Comments: Channel 384

Date & Time: August 28, 1999  
 Project #: 302A17  
 Company: Novatel  
 Product: Merlin  
 Serial #: 01.6d

10:08 AM

EMI   
 AMB   
 LIM 

Plot Number: 11



VBW: 1.000 MHz	Sweep Time: Auto	PR Atten: 0.00 dB
RBW: 1.000 MHz	Ref. Lev: 97.00 dBuV/m	An Atten: 20.00 dB




Associated Files	
ofts3m.dat	16/6/1999
09588v3.dat	9/5/1997
FCC15B3.DAT	20/8/1998
	31/12/1903

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

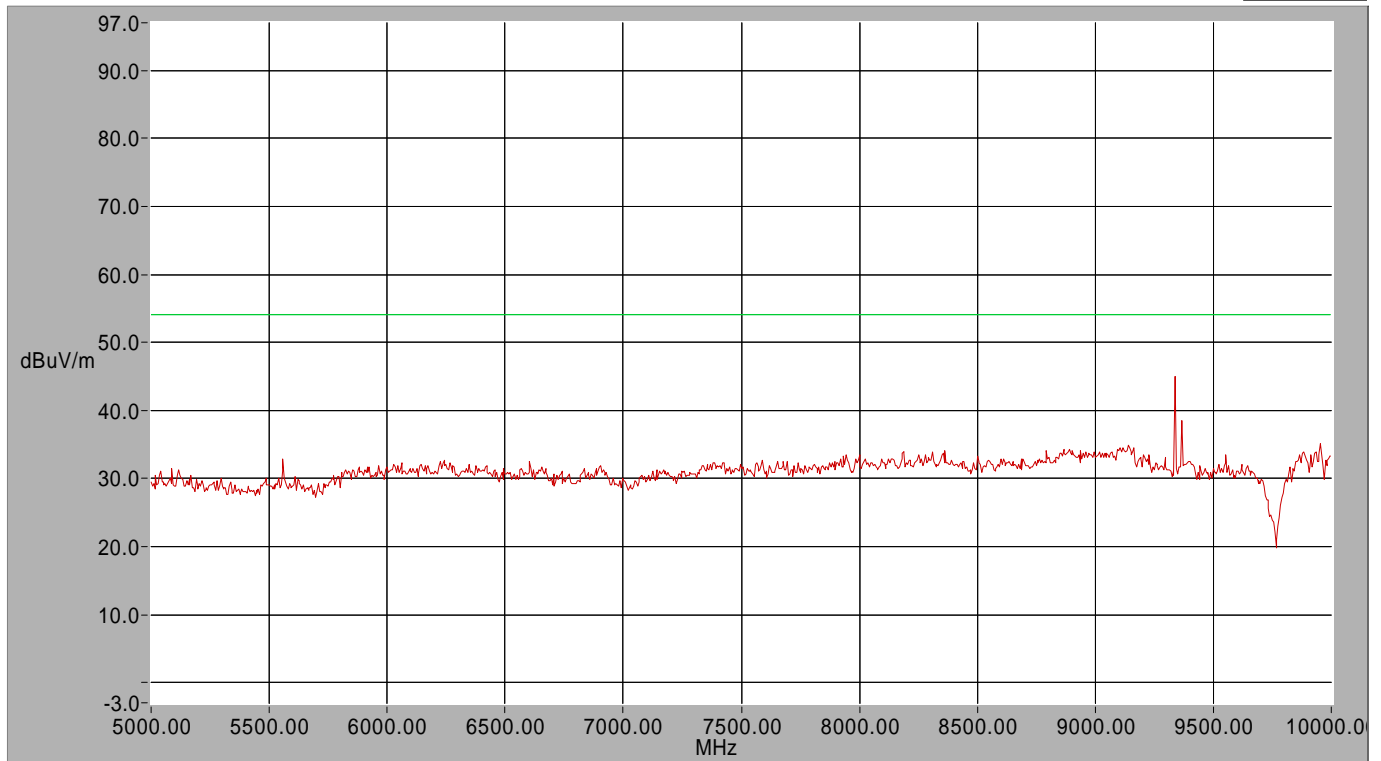
Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 384

Date & Time: August 28, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

10:14 AM

EMI   
AMB   
LIM 

Plot Number: 12



VBW: 1.000 MHz    Sweep Time: Auto    PR Atten: 0.00 dB  
RBW: 1.000 MHz    Ref. Lev: 97.00 dBuV/m    An Atten: 0.00 dB

Associated Files  
ofts3m.dat    16/6/1999  
09588v3.dat    9/5/1997  
FCC15B3.DAT    20/8/1998  
                  31/12/1903












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

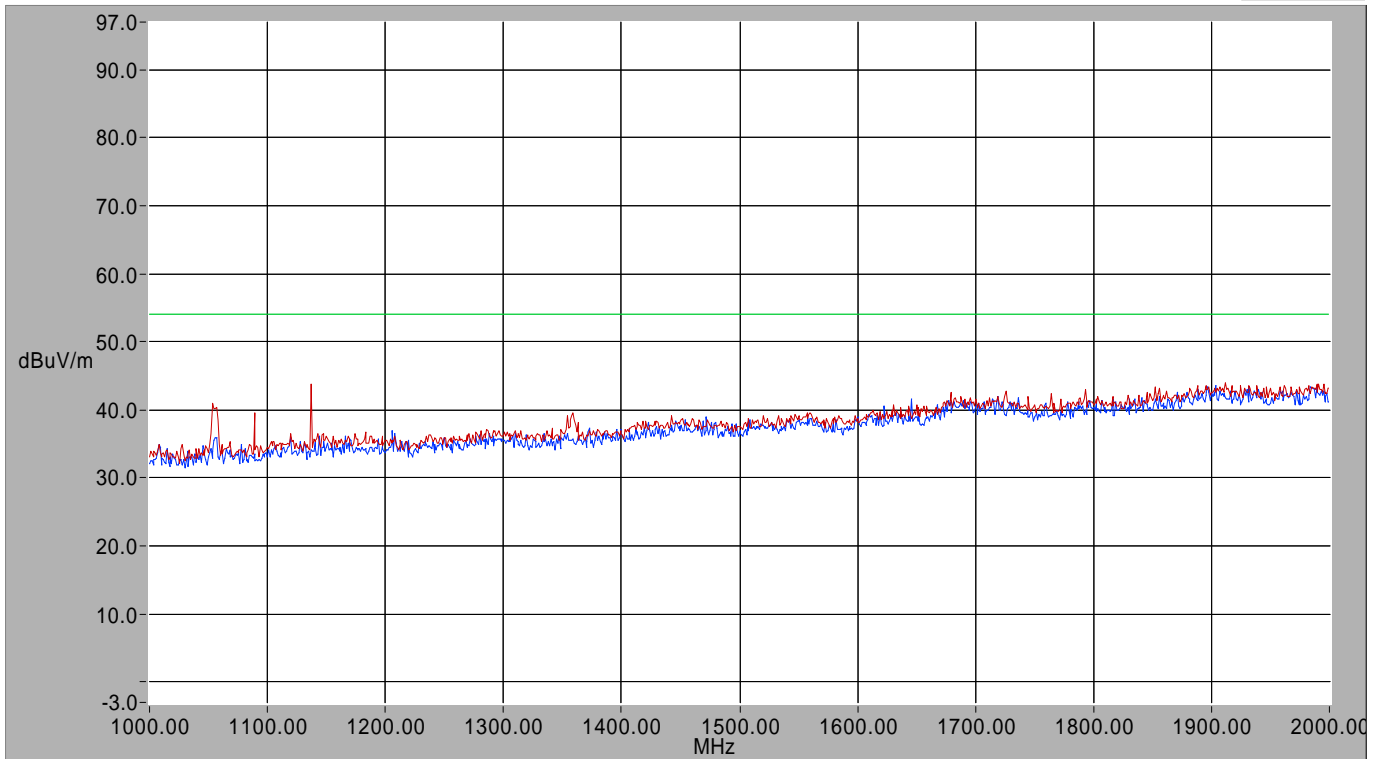
Title: Operational Rx  
 Mode of Operation: Operational Rx  
 Distance: 3 meters  
 Technologist: Ian Guldborg  
 Comments: Channel 799

Date & Time: August 27, 1999  
 Project #: 302A17  
 Company: Novatel  
 Product: Merlin  
 Serial #: 01.6d

3:07 PM

EMI   
 AMB   
 LIM 

Plot Number: 5



VBW: 300.000 kHz Sweep Time: Auto PR Atten: 0.00 dB  
 RBW 1.000 MHz Ref. Lev: 97.00 dBuV/m An Atten: 0.00 dB

Associated Files  
 ofts3m.dat 16/6/1999  
 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)	RESULT
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


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

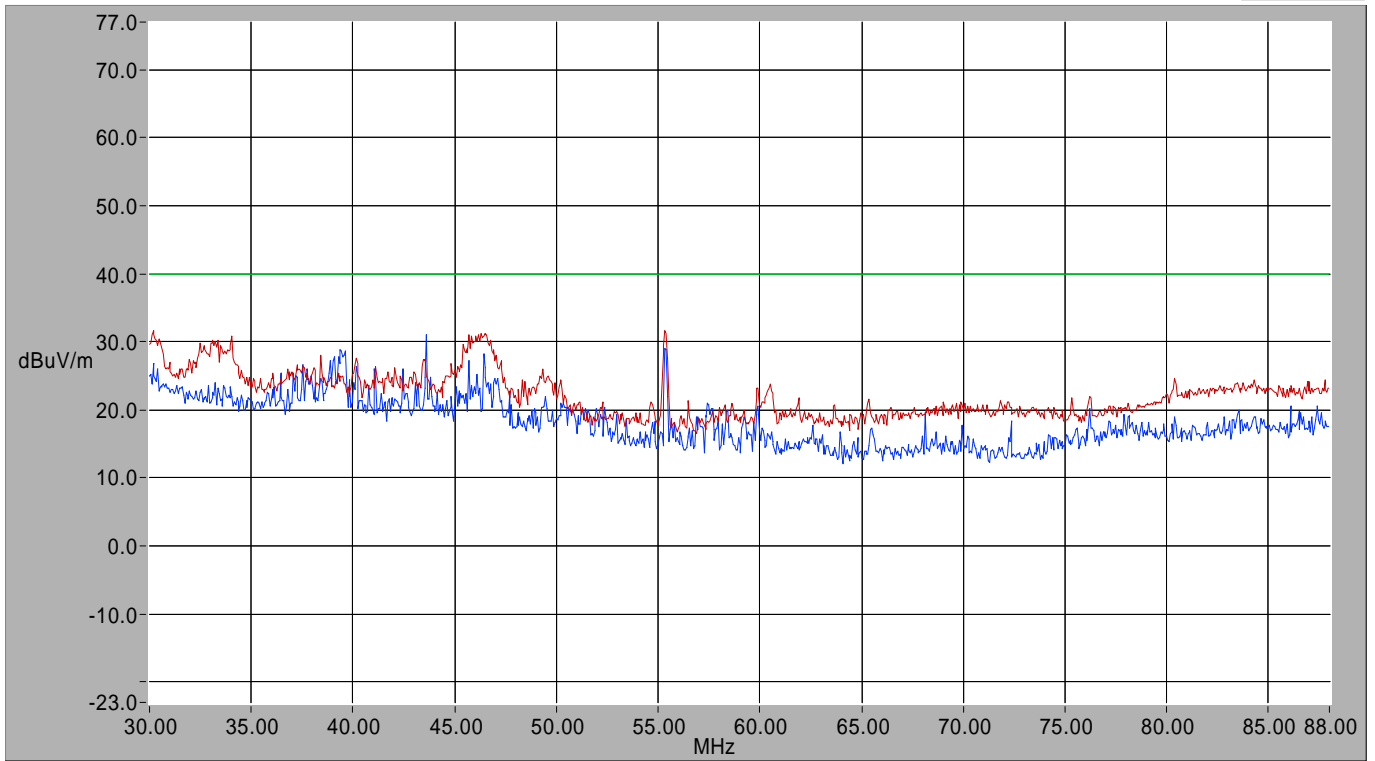
Title: Operational Rx  
 Mode of Operation: Operational Rx  
 Distance: 3 meters  
 Technologist: Ian Guldborg  
 Comments: Channel 799

Date & Time: August 27, 1999  
 Project #: 302A17  
 Company: Novatel  
 Product: Merlin  
 Serial #: 01.6d

2:33 PM

EMI   
 AMB   
 LIM 

Plot Number: 8



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 16/6/1999  
 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)	RESULT
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**Radiated Emissions  
Vertical Polarity  
FCC Part 15 Class B 3m**

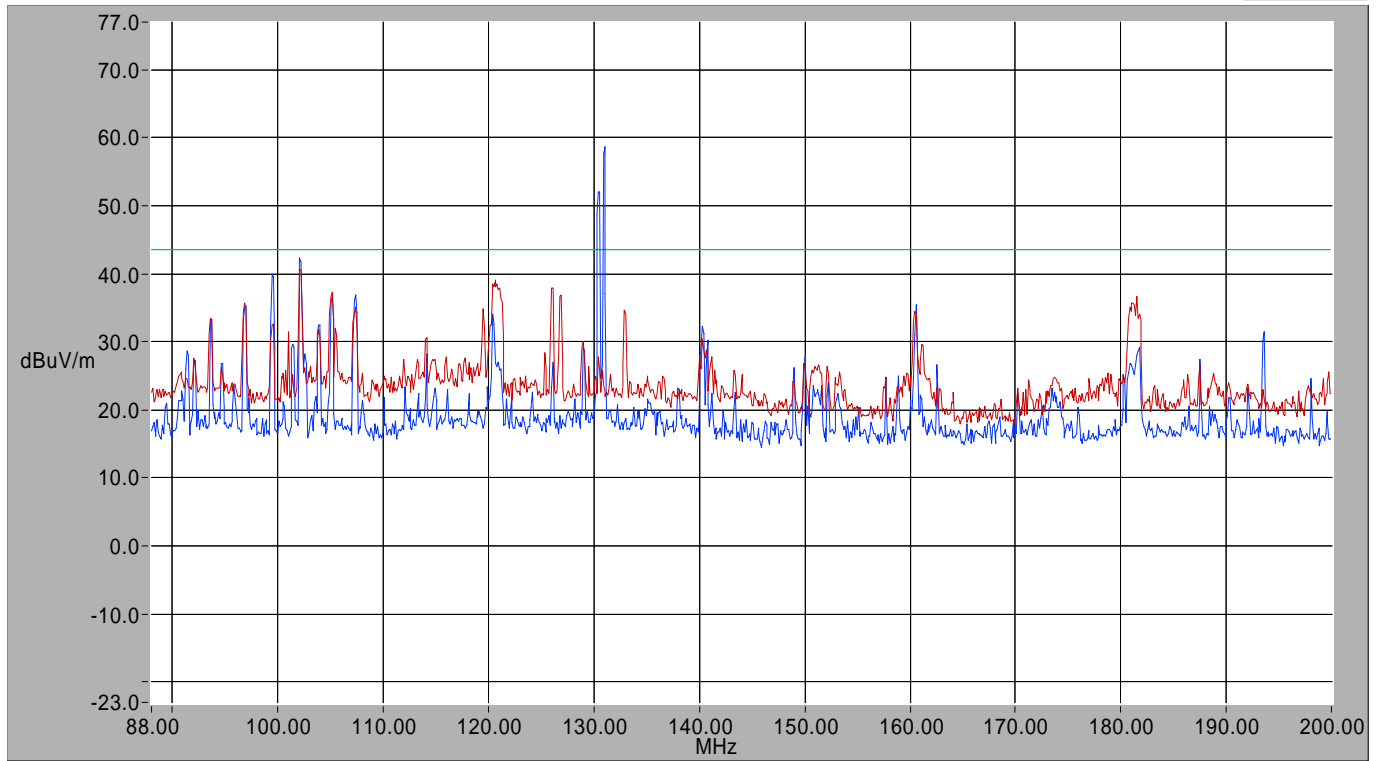
Title: Operational Rx  
Mode of Operation: Operational Rx  
Distance: 3 meters  
Technologist: Ian Guldborg  
Comments: Channel 799

Date & Time: August 27, 1999  
Project #: 302A17  
Company: Novatel  
Product: Merlin  
Serial #: 01.6d

2:39 PM

EMI   
AMB   
LIM 

Plot Number: 9



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 16/6/1999  
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)	RESULT
------------	---------------	-------------	-----------------	---------	---------	---------	--------------	----------------	--------









