

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

**PLOT # 25**

FCC ID: QC8-AN50S



## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 1, Tx Frequency: 5735 MHz, Power Output: 24.56 dBm

Modulation: 16QAM (36 Mb/s)

### Band-Edge

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 07:44:53 2003

REF 15.0 dBm

ATT 20 dB

A\_write&maxB\_blank

10dB/

MKR

5.7332 GHz

REF OFS

11.5 dB

RBW

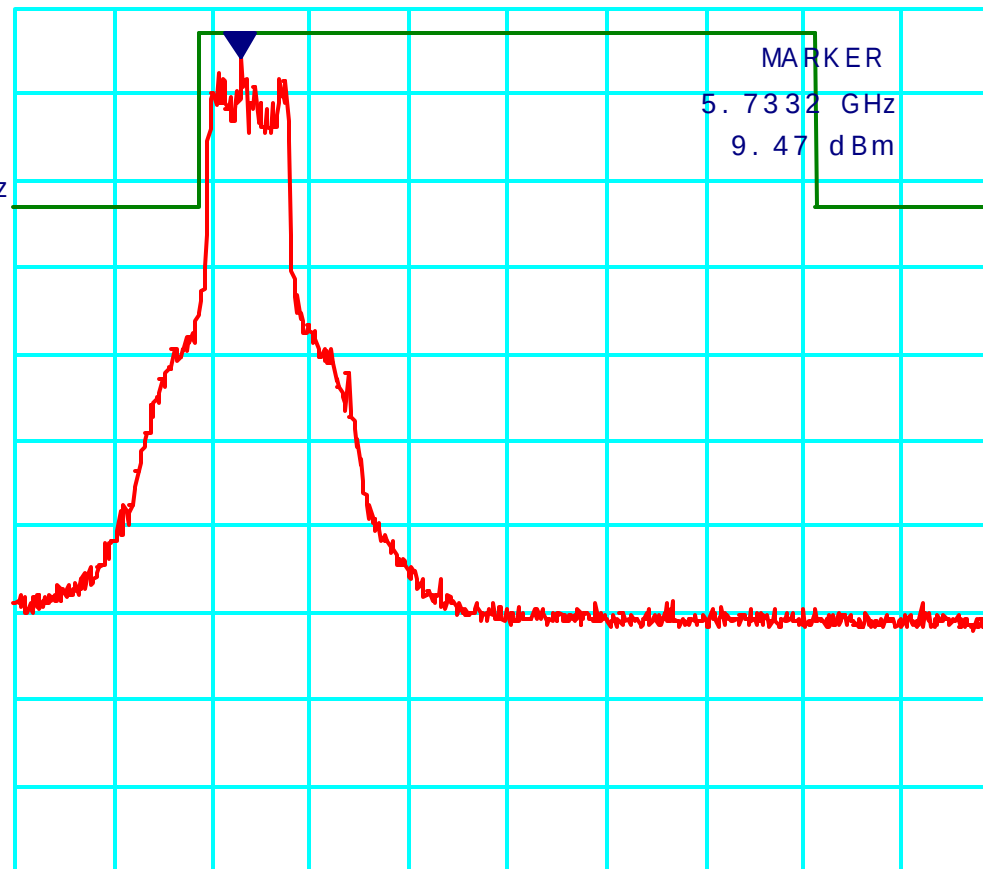
100 kHz

VBW

1 MHz

SWP

10 s



CENTER 5.7875 GHz

SPAN 200.0 MHz

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 26

FCC ID: QC8-AN50S



**UltraTech**  
Engineering Labs Inc.

## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 1, Tx Frequency: 5735 MHz, Power Output: 24.56 dBm

Modulation: 16QAM (36 Mb/s)

### Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 07:48:24 2003

REF 15.0 dBm

ATT 20 dB

A\_write&maxB\_blank

10dB/

MKR

5.735 GHz

MARKER

5.735 GHz

6.03 dBm

REF OFS

11.5 dB

RBW

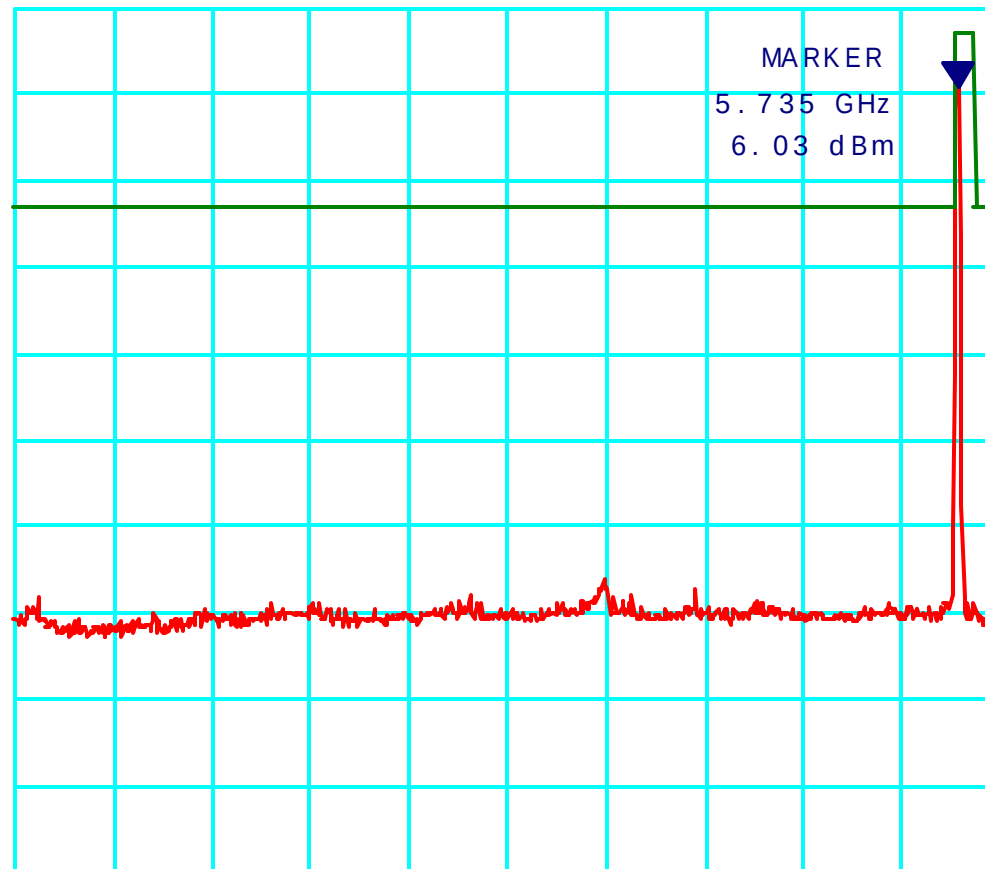
100 kHz

VBW

1 MHz

SWP

10 s



START 10 MHz

STOP 6.000 GHz

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 27

FCC ID: QC8-AN50S



**UltraTech**  
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## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 1, Tx Frequency: 5735 MHz, Power Output: 24.56 dBm

Modulation: 16QAM (36 Mb/s)

### Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:06:04 2003

REF - 20.0 dBm

ATT 0 dB

A\_write&maxB\_blank

10 dB/

MKR

29.607 GHz

MARKER

29.607 GHz

- 51.53 dBm

REF OFS

11.5 dB

RBW

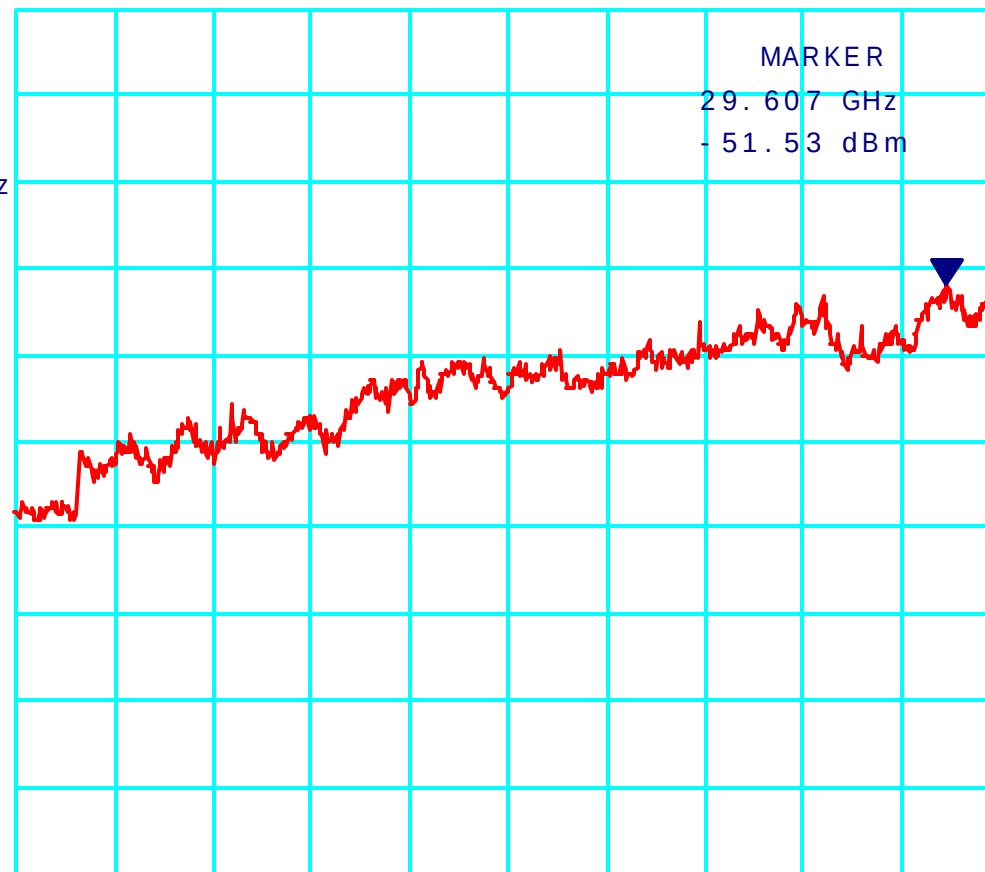
100 kHz

VBW

1 MHz

SWP

10 s



START 6.000 GHz

STOP 31.000 GHz

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

**PLOT # 28**

FCC ID: QC8-AN50S



## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 1, Tx Frequency: 5735 MHz, Power Output: 24.56 dBm

Modulation: 16QAM (36 Mb/s)

### Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:24:29 2003

REF -20.0 dBm

ATT 70 dB

A\_write&maxB\_blank

10dB/

MKR

33.157 GHz

MARKER

33.157 GHz

-52.97 dBm

REF OFS

11.5 dB

EXT 26.5~40.0 GHz: 6-

RBW

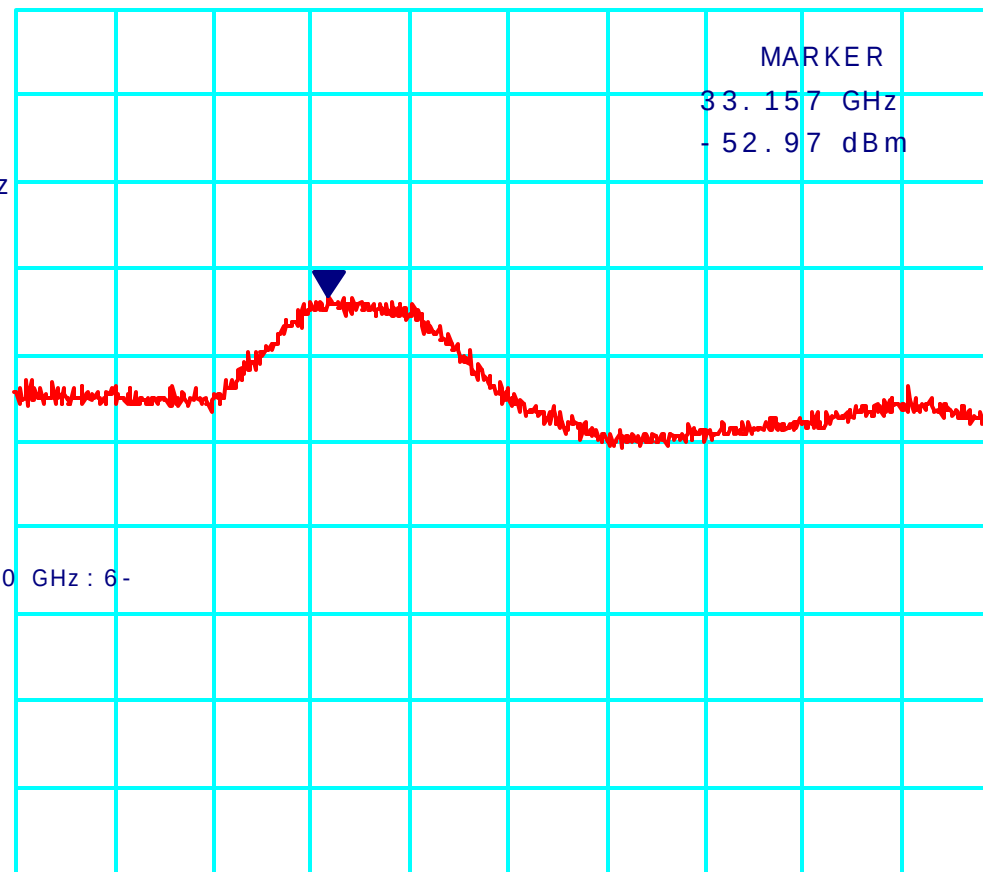
100 kHz

VBW

1 MHz

SWP

10 s



START 30.000 GHz

STOP 40.000 GHz

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 29

FCC ID: QC8-AN50S



## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

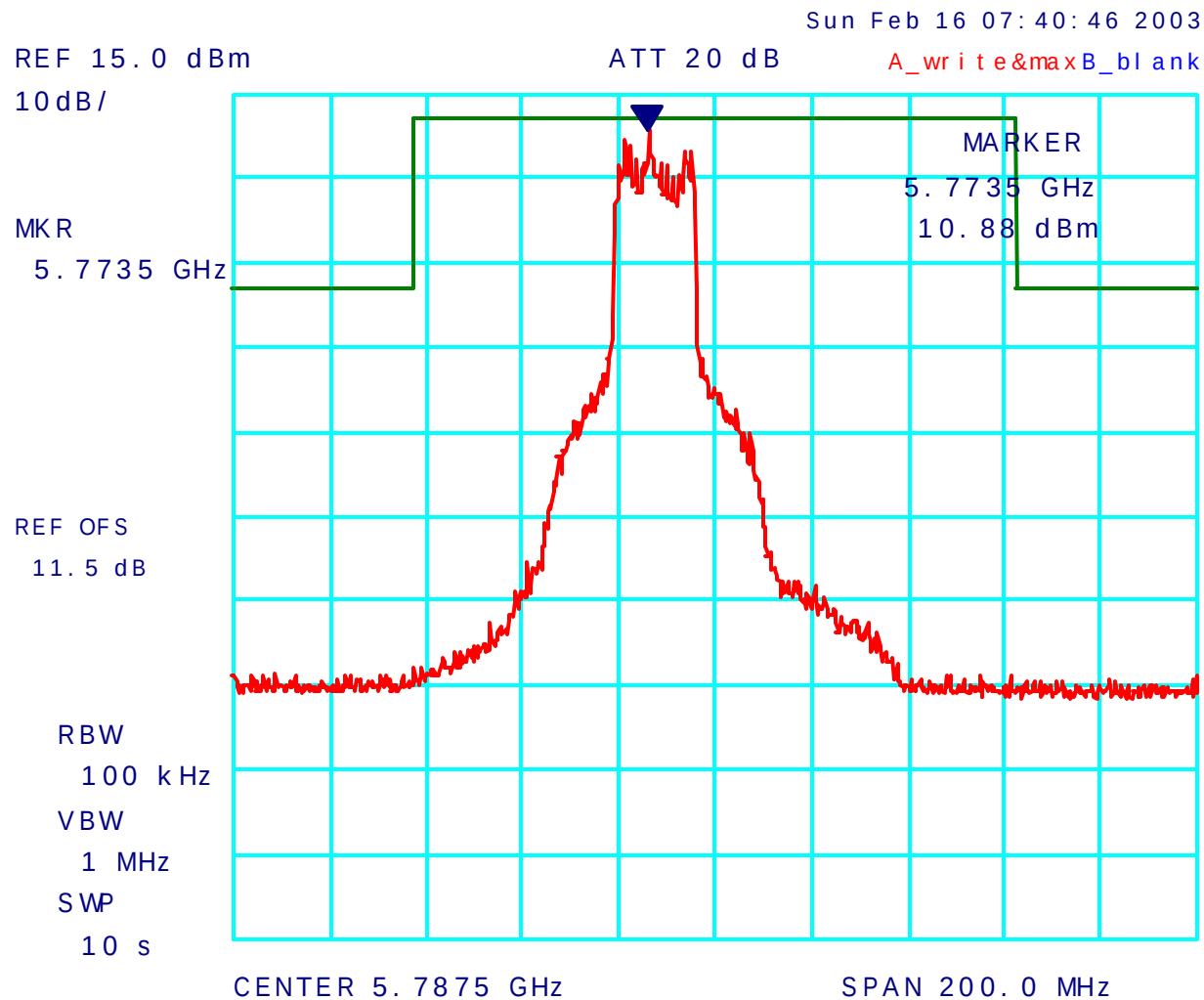
Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: 16QAM (36 Mb/s)

### Band-Edge

Date: February 16, 2003

Tested by: Hung Trinh



# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 30

FCC ID: QC8-AN50S



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REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: 16QAM (36 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 07:37:32 2003

REF 15.0 dBm

ATT 20 dB

A\_write&maxB\_blank

10dB/

MKR

5.769 GHz

MARKER

5.769 GHz

10.34 dBm

REF OFS

11.5 dB

RBW

100 kHz

VBW

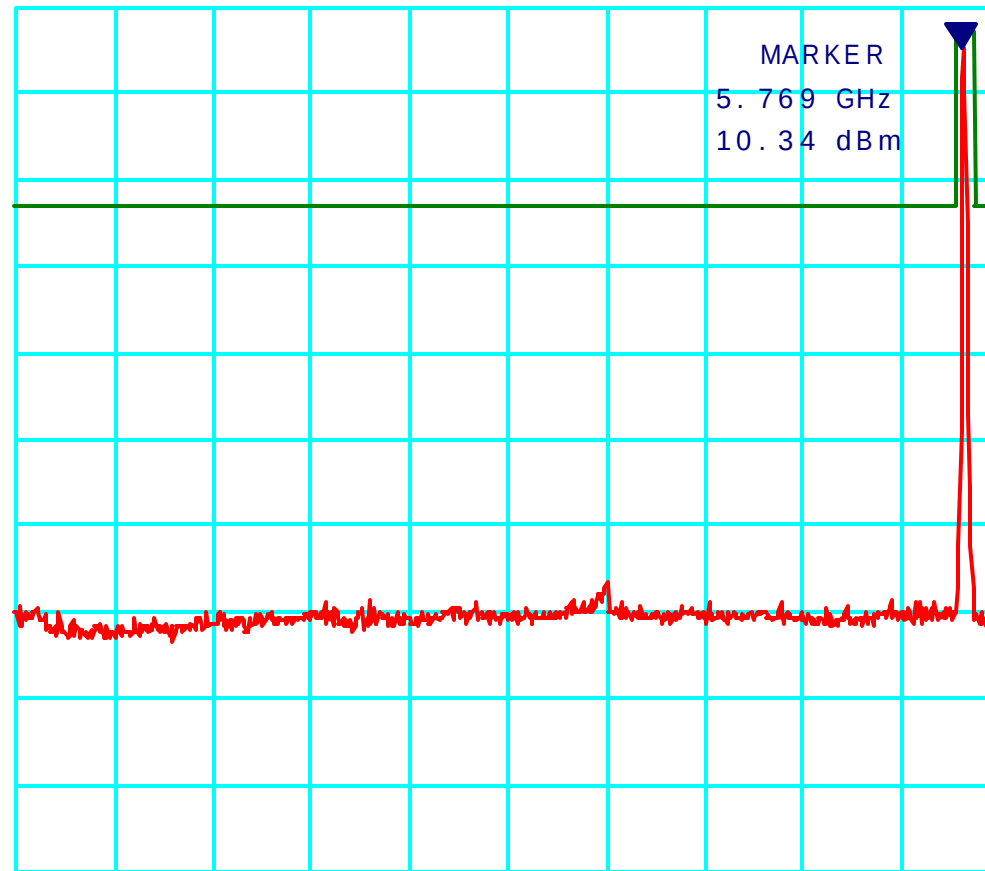
1 MHz

SWP

10 s

START 10 MHz

STOP 6.000 GHz



# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

**PLOT # 31**

FCC ID: QC8-AN50S



**UltraTech**  
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## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: 16QAM (36 Mb/s)

### Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:08:23 2003

REF -20.0 dBm

ATT 0 dB

A\_w r i t e & m a x B \_ b l a n k

10 dB /

MKR

29.571 GHz

REF OFS

11.5 dB

RBW

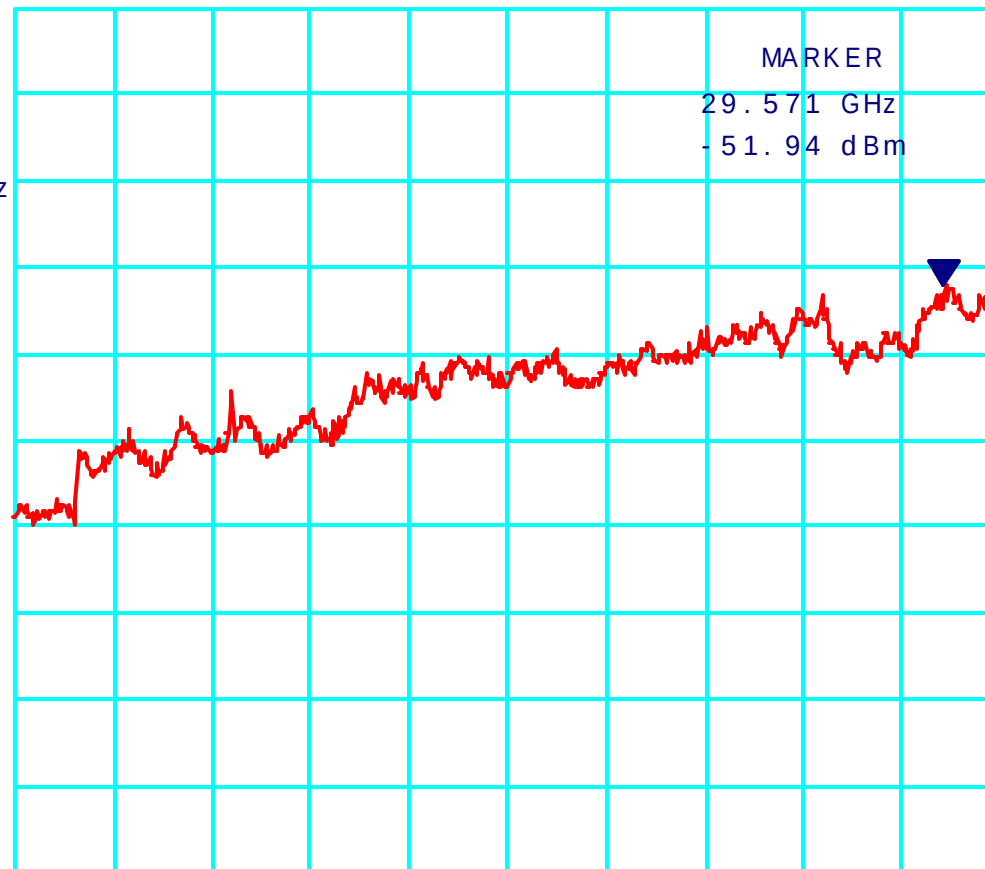
100 kHz

VBW

1 MHz

SWP

10 s



START 6.000 GHz

STOP 31.000 GHz

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 32

FCC ID: QC8-AN50S



**UltraTech**  
Engineering Labs Inc.

## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: 16QAM (36 Mb/s)

### Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:26:33 2003

REF -20.0 dBm

ATT 70 dB

A\_w r i t e & m a x B \_ b l a n k

10 dB /

MKR

33.600 GHz

MARKER

33.600 GHz

-53.09 dBm

REF OFS

11.5 dB

EXT 26.5~40.0 GHz: 6-

RBW

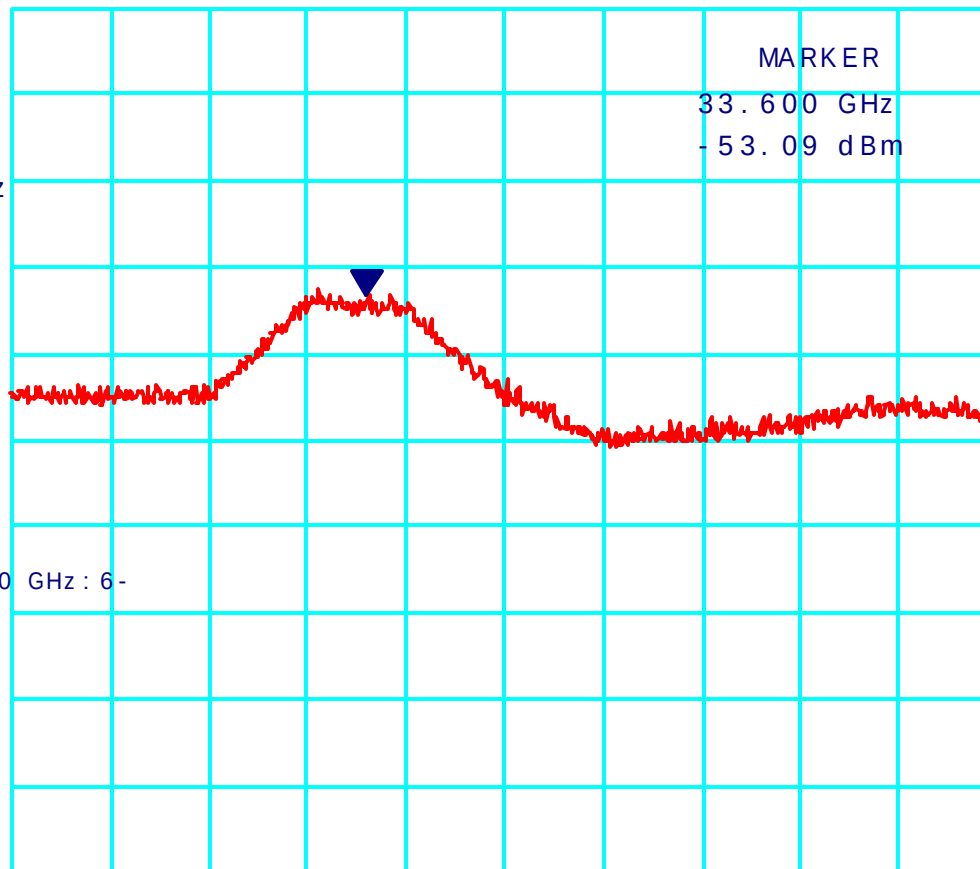
100 kHz

VBW

1 MHz

SWP

10 s



START 30.000 GHz

STOP 40.000 GHz

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

**PLOT # 33**

FCC ID: QC8-AN50S



## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

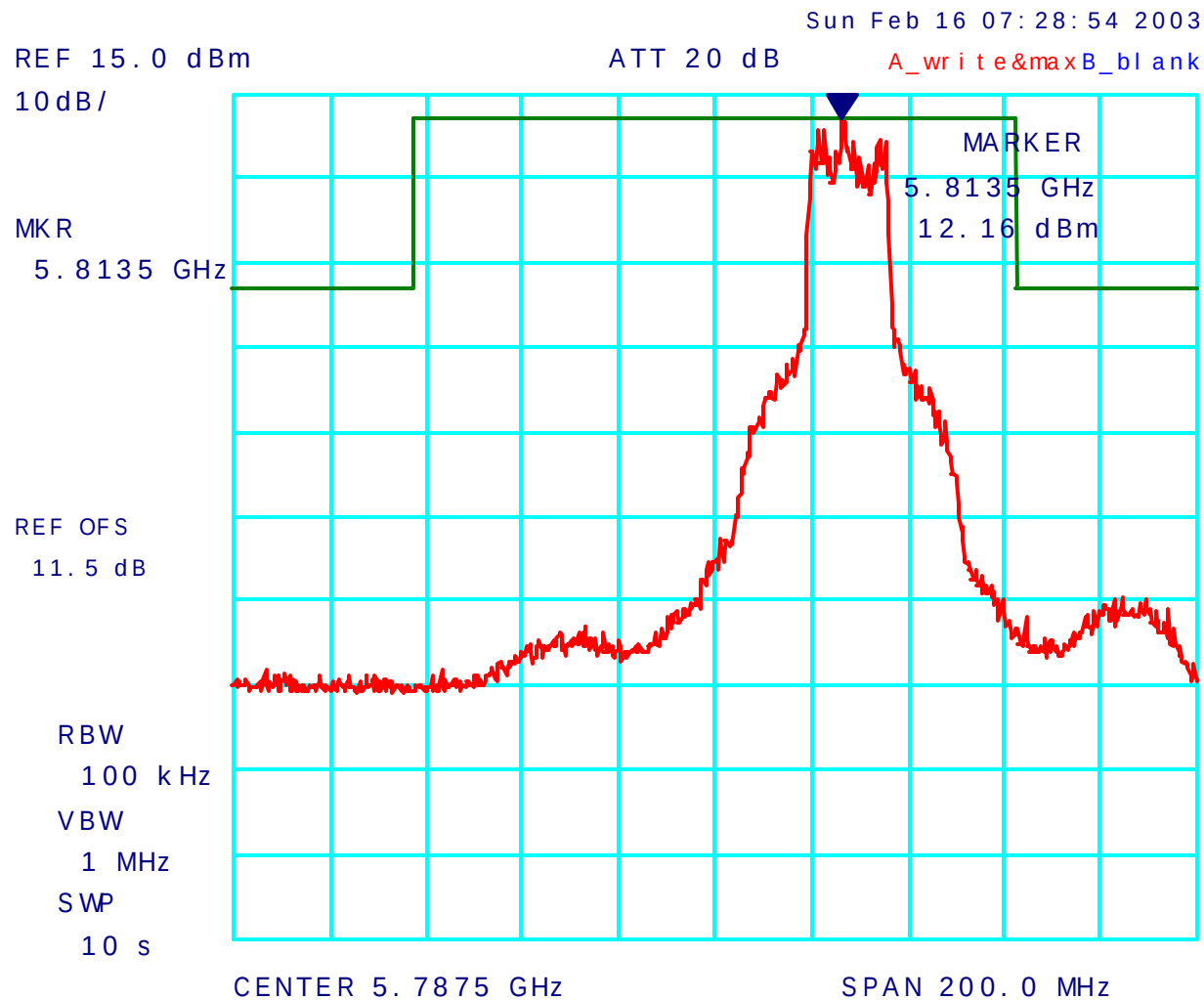
Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: 16QAM (36 Mb/s)

### Band-Edge

Date: February 16, 2003

Tested by: Hung Trinh



# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 34

FCC ID: QC8-AN50S



## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: 16QAM (36 Mb/s)

### Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 07:32:10 2003

REF 15.0 dBm

ATT 20 dB

A\_w r i t e & m a x B \_ b l a n k

10 dB /

M K R

5.812 GHz

MARKER

5.812 GHz

11.31 dBm

REF OFS

11.5 dB

RBW

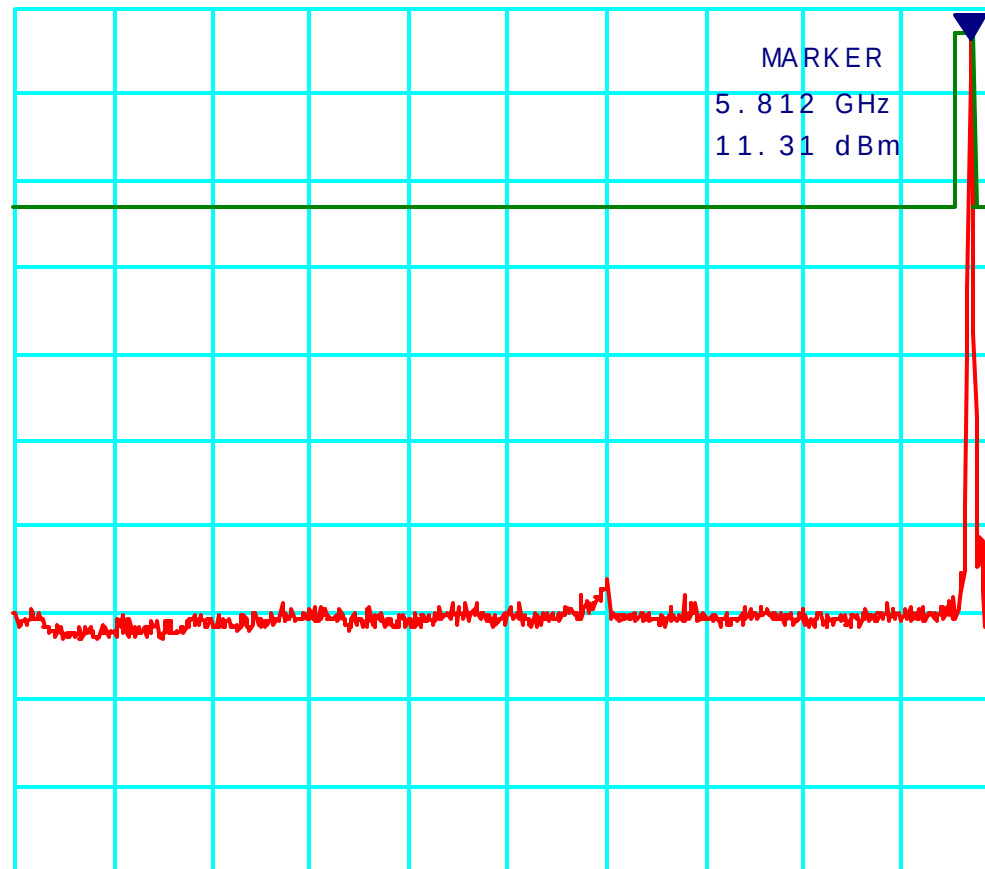
100 kHz

VBW

1 MHz

SWP

10 s



START 10 MHz

STOP 6.000 GHz

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

**PLOT # 35**

FCC ID: QC8-AN50S



**UltraTech**  
Engineering Labs Inc.

## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: 16QAM (36 Mb/s)

### Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:10:35 2003

REF -20.0 dBm

ATT 0 dB

A\_w r i t e & m a x B \_ b l a n k

10 dB /

MKR

30.714 GHz

REF OFS

11.5 dB

RBW

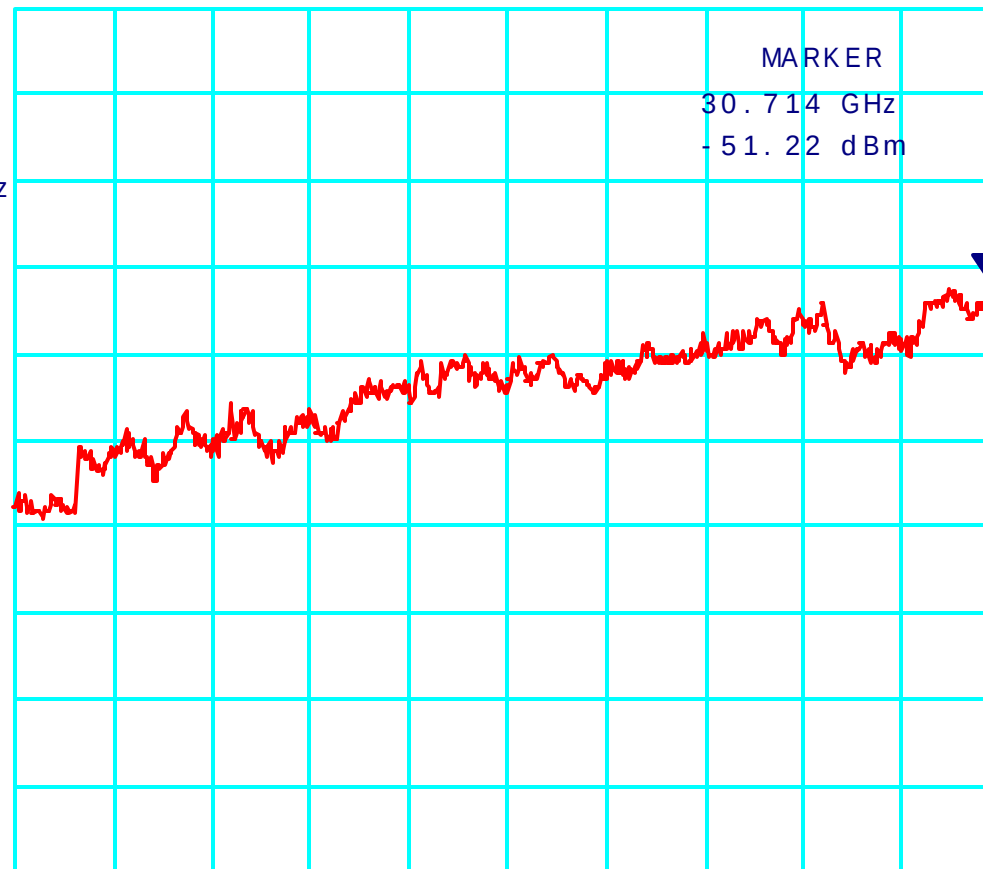
100 kHz

VBW

1 MHz

SWP

10 s



START 6.000 GHz

STOP 31.000 GHz

# ANNEX 1 - PLOTS - Transmitter Band-edge & Spurious Conducted Emissions

AN-50 SYSTEM (5.735-5.815 GHz), Model AN50S

PLOT # 36

FCC ID: QC8-AN50S



**UltraTech**  
Engineering Labs Inc.

## REDLINE COMMUNICATIONS INC.

### AN-50 SYSTEM

Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: 16QAM (36 Mb/s)

### Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:28:55 2003

REF -20.0 dBm

ATT 70 dB

A\_w r i t e & m a x B \_ b l a n k

10 dB /

MKR

33.143 GHz

REF OFS

11.5 dB

EXT 26.5 ~40.0 GHz : 6-

RBW

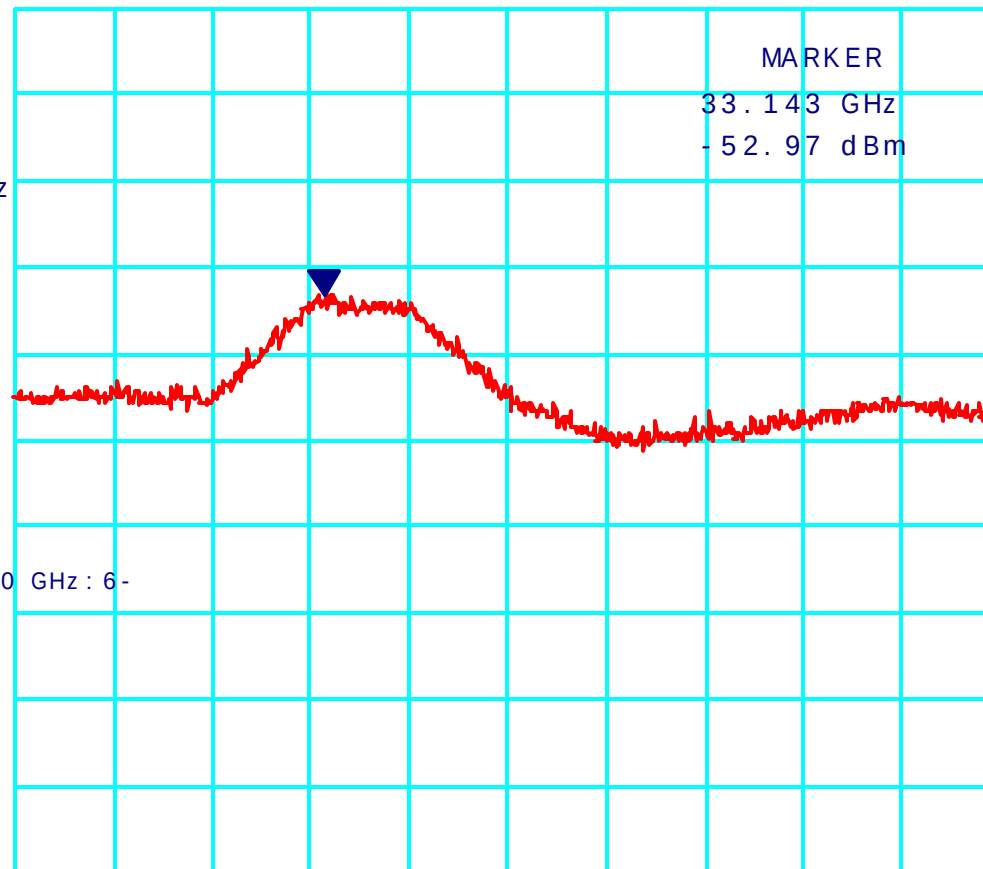
100 kHz

VBW

1 MHz

SWP

10 s



START 30.000 GHz

STOP 40.000 GHz