

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

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

PLOT # 37

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: QPSK (18 Mb/s)

Band-Edge

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 06:53:39 2003

REF 15.0 dBm

ATT 20 dB

A_write&maxB_blank

10dB/

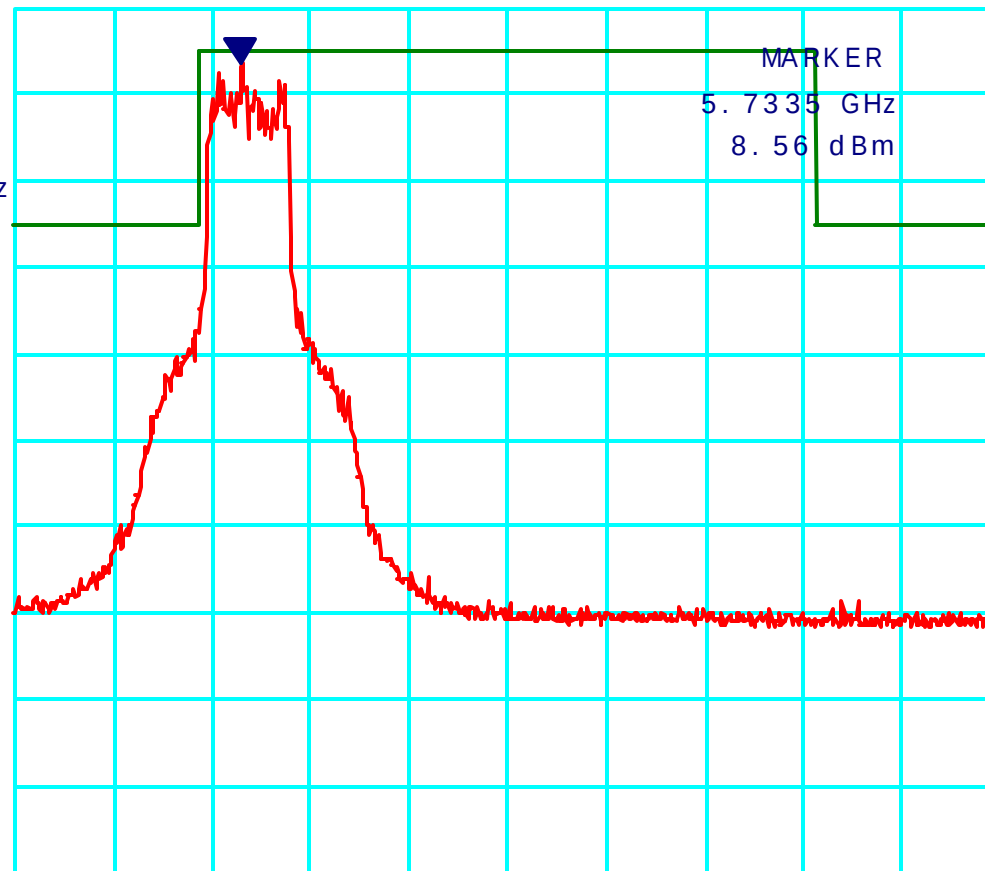
MKR
5.7335 GHz

REF OFS
11.5 dB

RBW
100 kHz

VBW
1 MHz

SWP
10 s



CENTER 5.787 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 # 38

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

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

Modulation: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 06:50:41 2003

REF 15.0 dBm

ATT 20 dB

A_write&maxB_blank

10 dB/

MKR

5.726 GHz

MARKER

5.726 GHz

6.03 dBm

REF OFS

11.5 dB

RBW

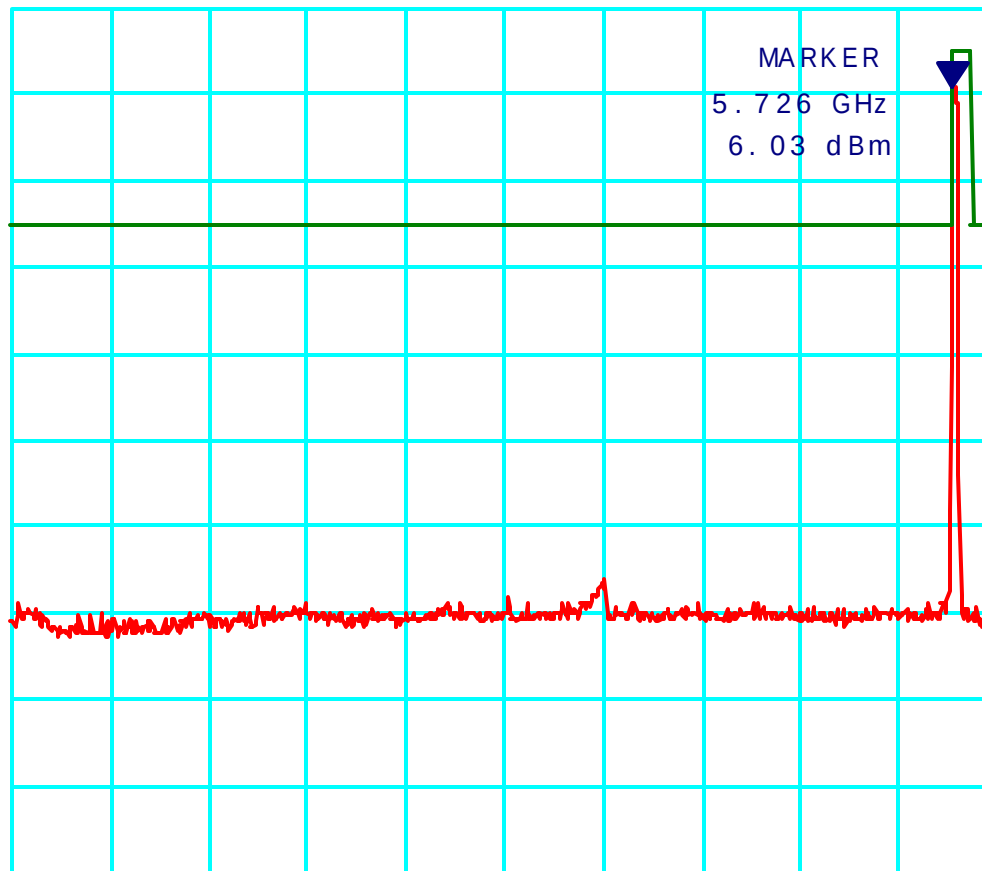
100 kHz

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 # 39

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

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

Modulation: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:15:33 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

30.893 GHz

MARKER

30.893 GHz

-51.31 dBm

REF OFS

11.5 dB

RBW

100 kHz

VBW

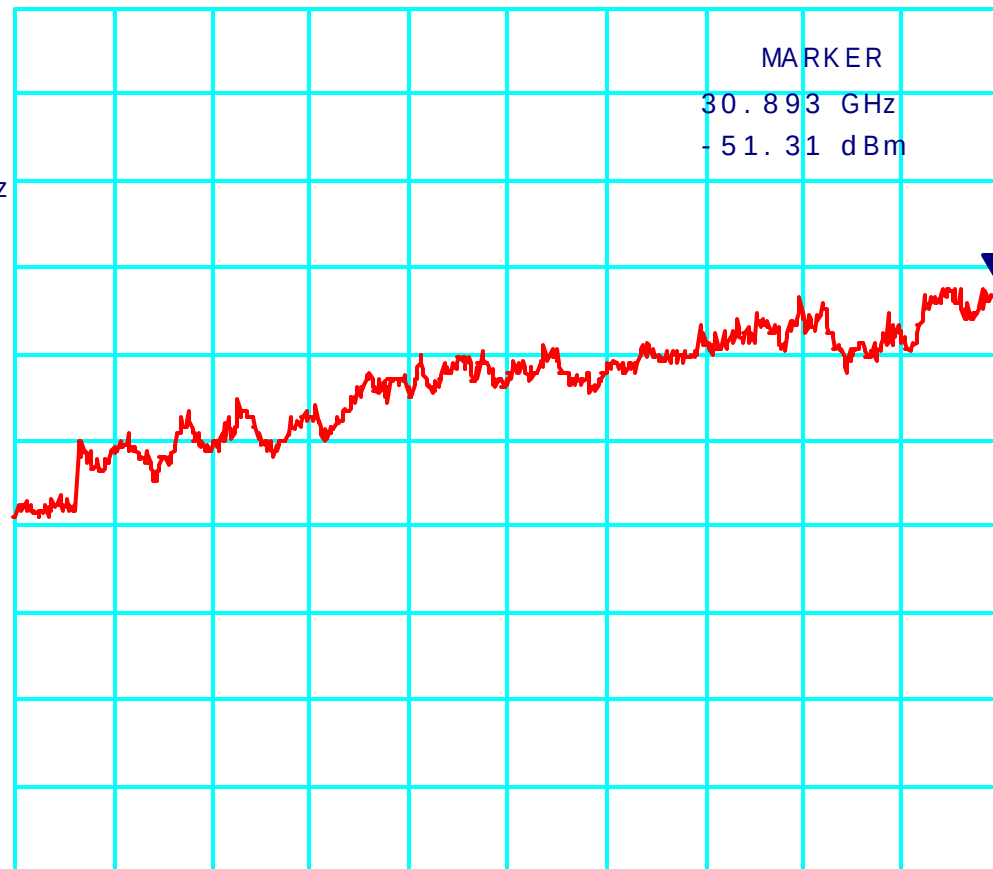
1 MHz

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 # 40

FCC ID: QC8-AN50S



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AN-50 SYSTEM

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

Modulation: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:13:23 2003

REF - 20.0 dBm

ATT 70 dB

A_write&maxB_blank

10dB/

MKR

33.071 GHz

MARKER

33.071 GHz

- 52.78 dBm

REF OFS

11.5 dB

EXT 26.5~40.0 GHz: 6-

RBW

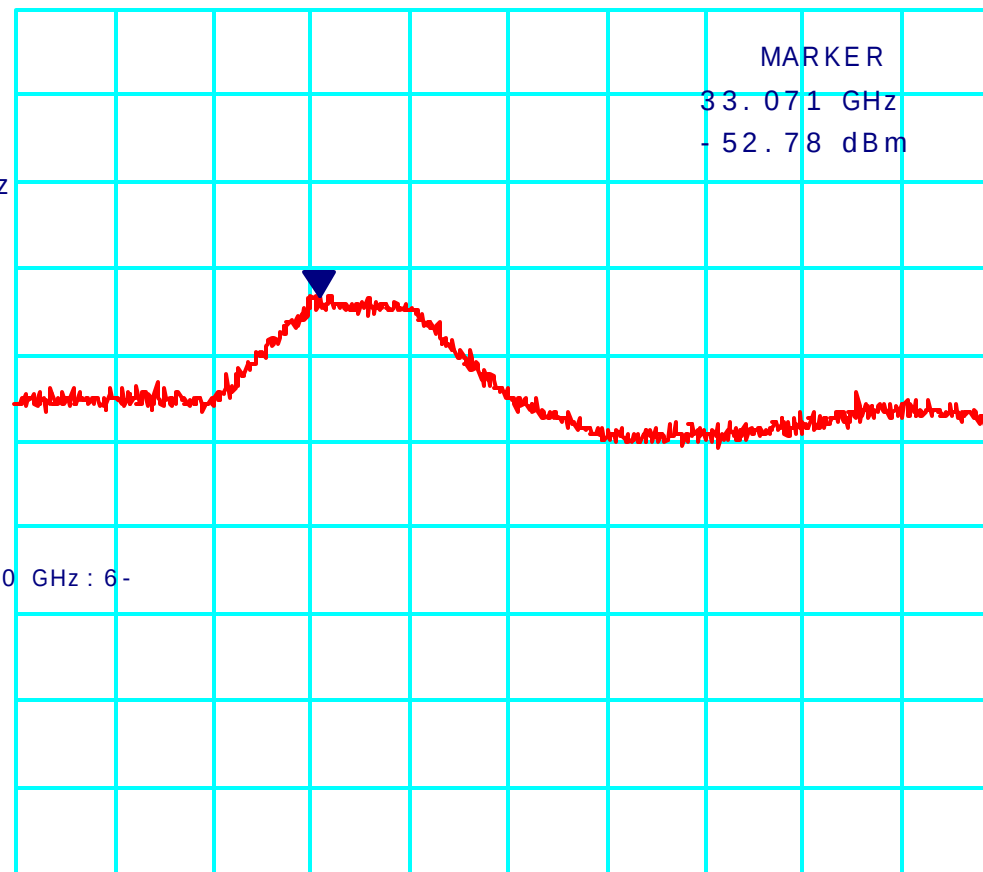
100 kHz

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 # 41

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: QPSK (18 Mb/s)

Band-Edge

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 07:00:52 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/

MKR

5.7735 GHz

REF OFS

11.5 dB

RBW

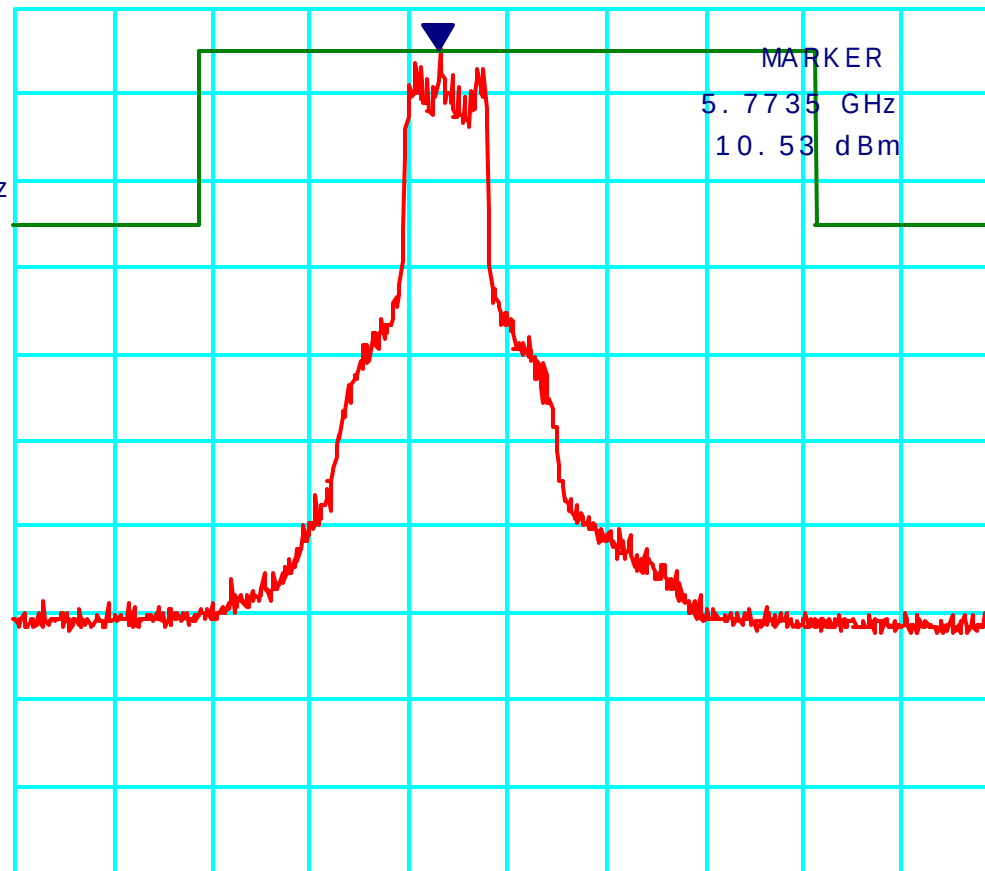
100 kHz

VBW

1 MHz

SWP

10 s



CENTER 5.787 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 # 42

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: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 07:04:15 2003

REF 15.0 dBm

ATT 20 dB

A_write&maxB_blank

10dB/

MKR

5.769 GHz

MARKER

5.769 GHz

6.75 dBm

REF OFS

11.5 dB

RBW

100 kHz

VBW

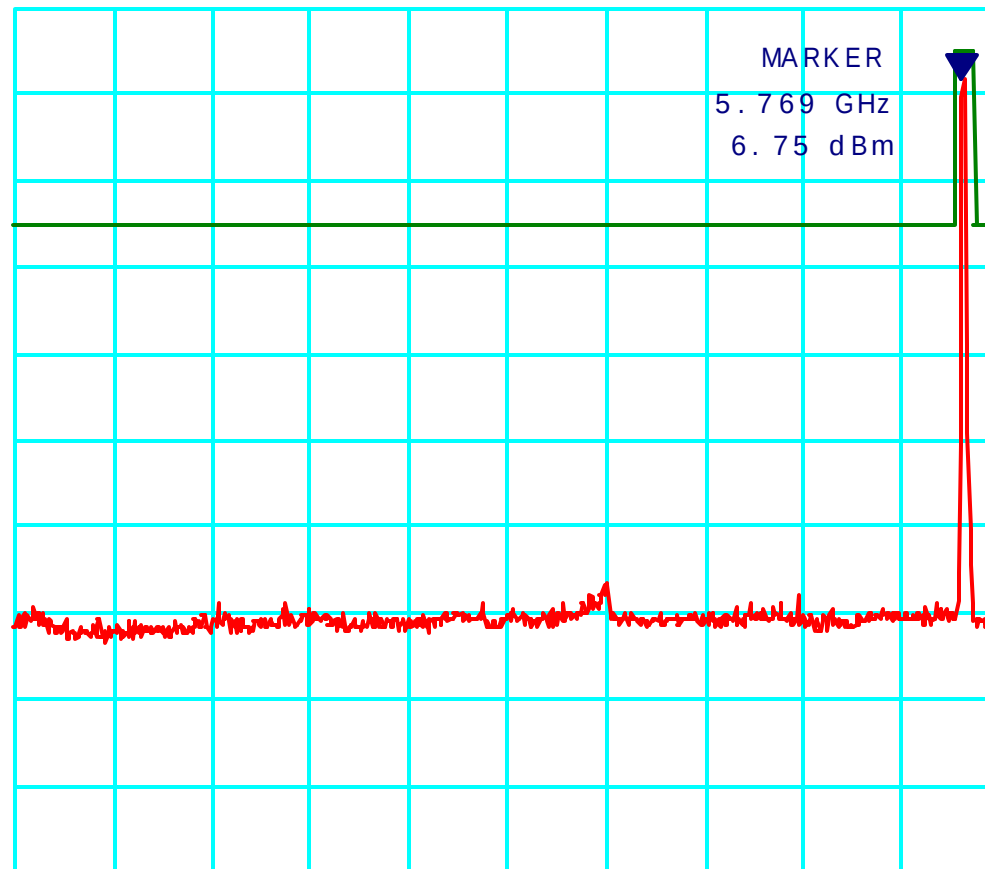
1 MHz

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 # 43

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

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

Modulation: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:17:46 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

29.786 GHz

REF OFS

11.5 dB

RBW

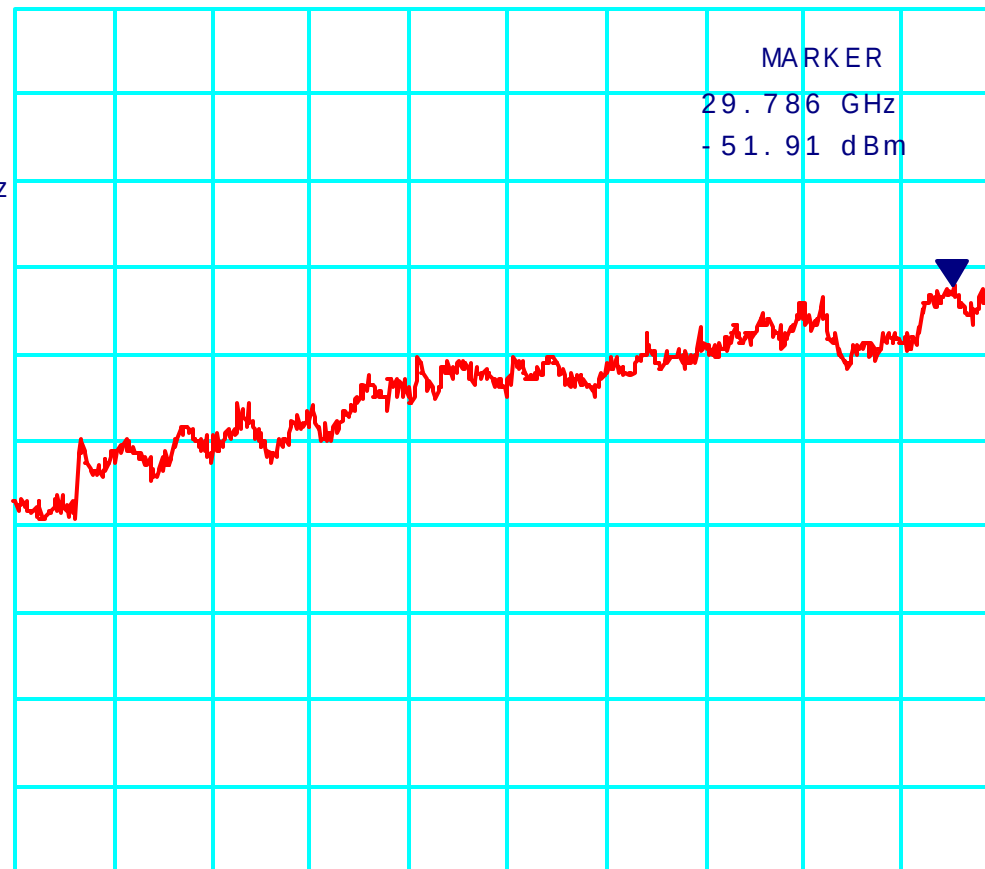
100 kHz

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 # 44

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: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:16:07 2003

REF -20.0 dBm

ATT 70 dB

A_write&maxB_blank

10dB/

MKR

33.014 GHz

REF OFS

11.5 dB

EXT 26.5~40.0 GHz: 6-

RBW

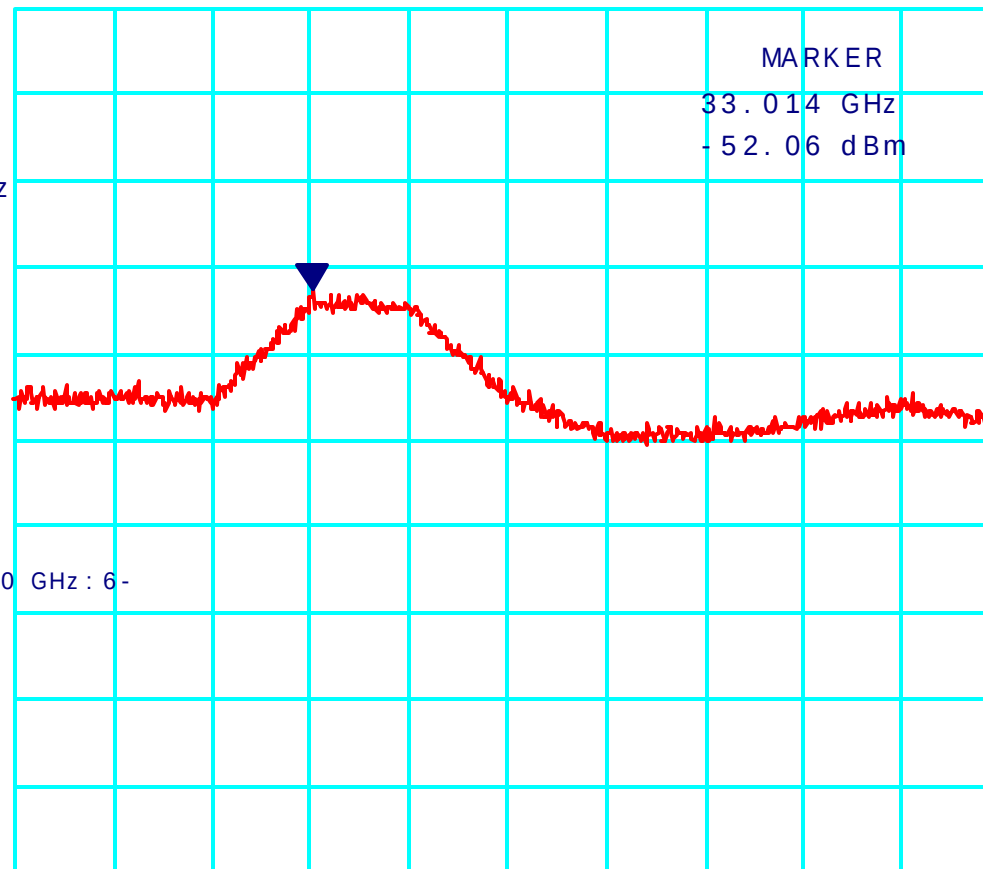
100 kHz

VBW

1 MHz

SWP

10 s



START 30.000 GHz

STOP 40.000 GHz

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

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

PLOT # 45

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

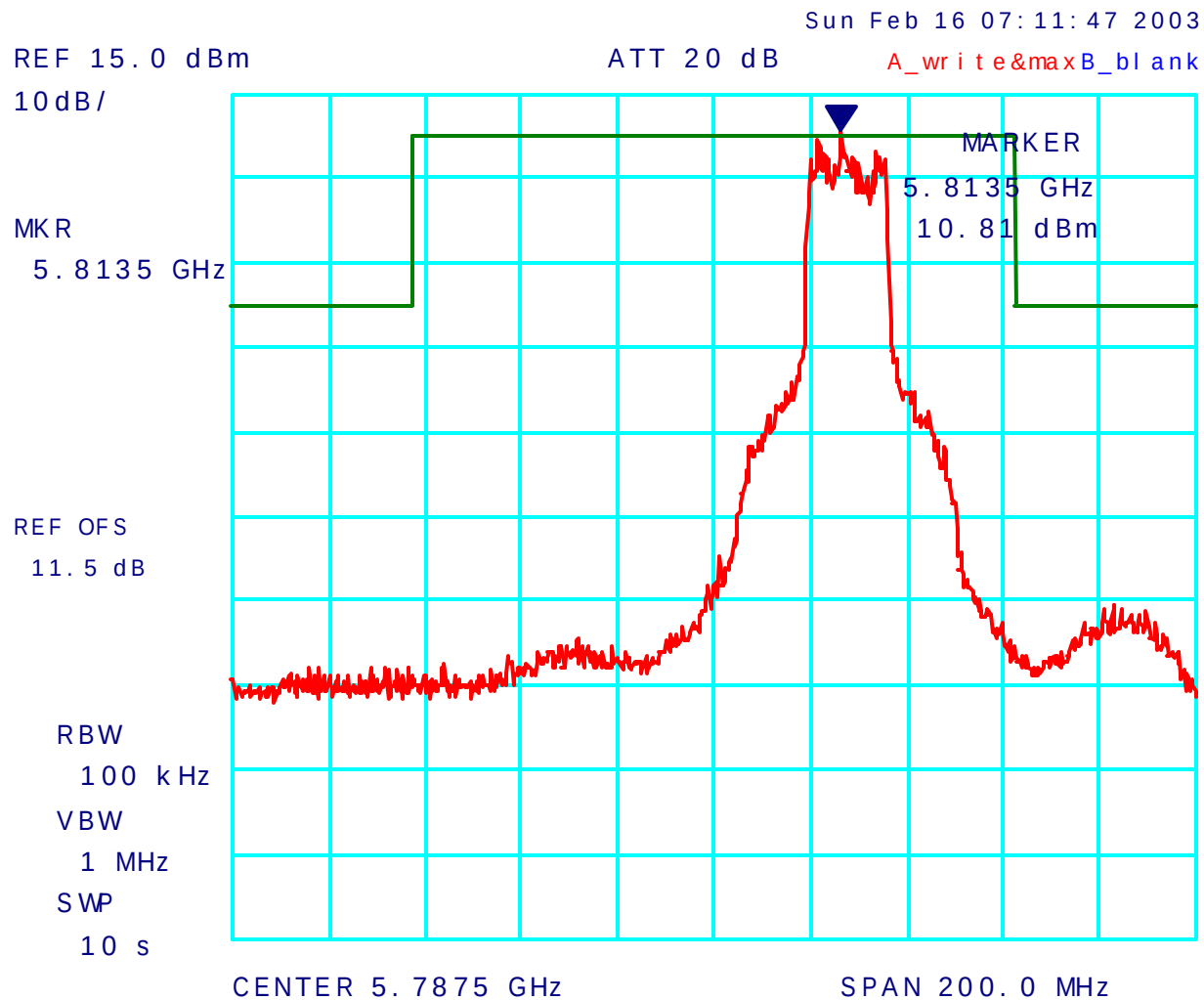
Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: QPSK (18 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 # 46

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: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 07:09:39 2003

REF 15.0 dBm

ATT 20 dB

A_write&maxB_blank

10dB/

MKR

5.812 GHz

MARKER

5.812 GHz

11.06 dBm

REF OFS

11.5 dB

RBW

100 kHz

VBW

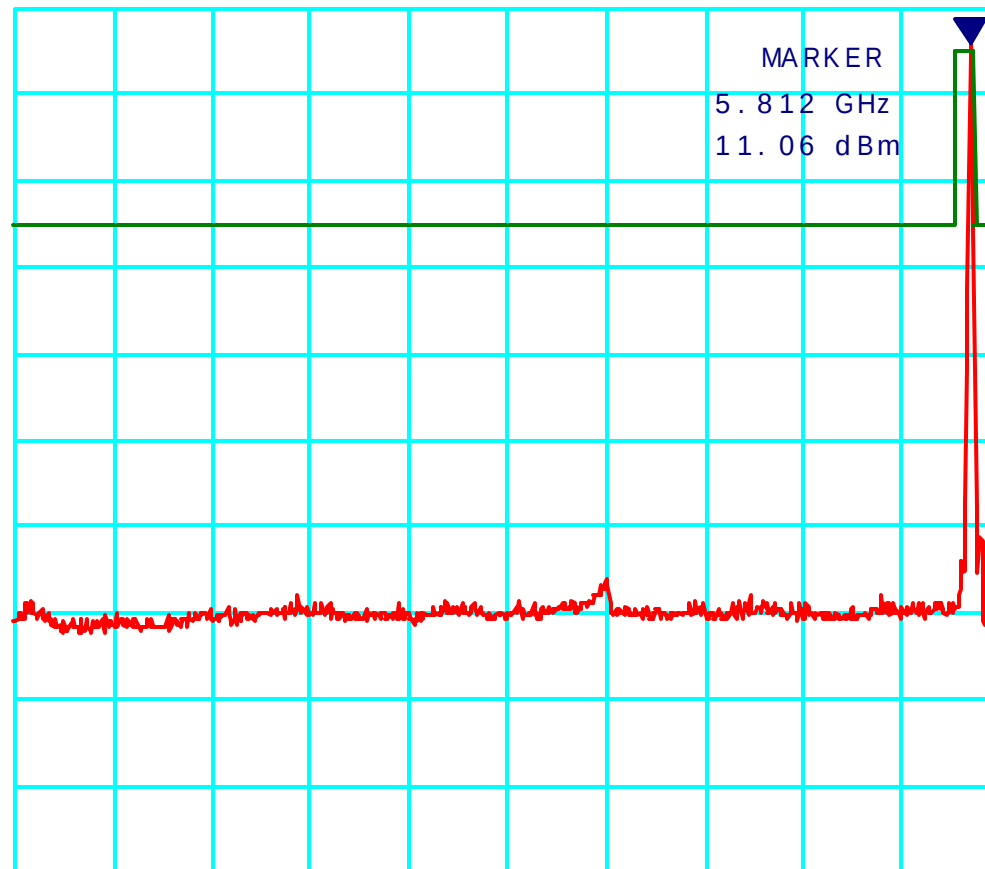
1 MHz

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 # 47

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: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:19:50 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

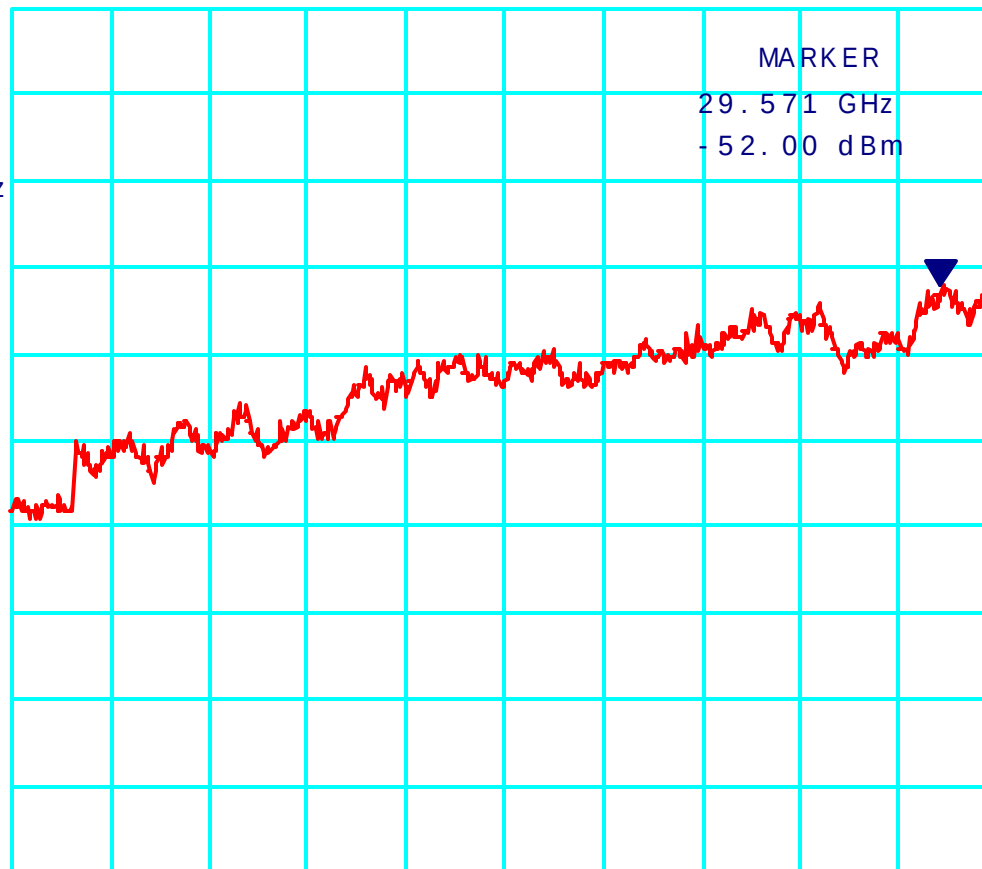
100 kHz

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 # 48

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: QPSK (18 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:18:04 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

33.171 GHz

MARKER

33.171 GHz

-51.81 dBm

REF OFS

11.5 dB

EXT 26.5~40.0 GHz : 6-

RBW

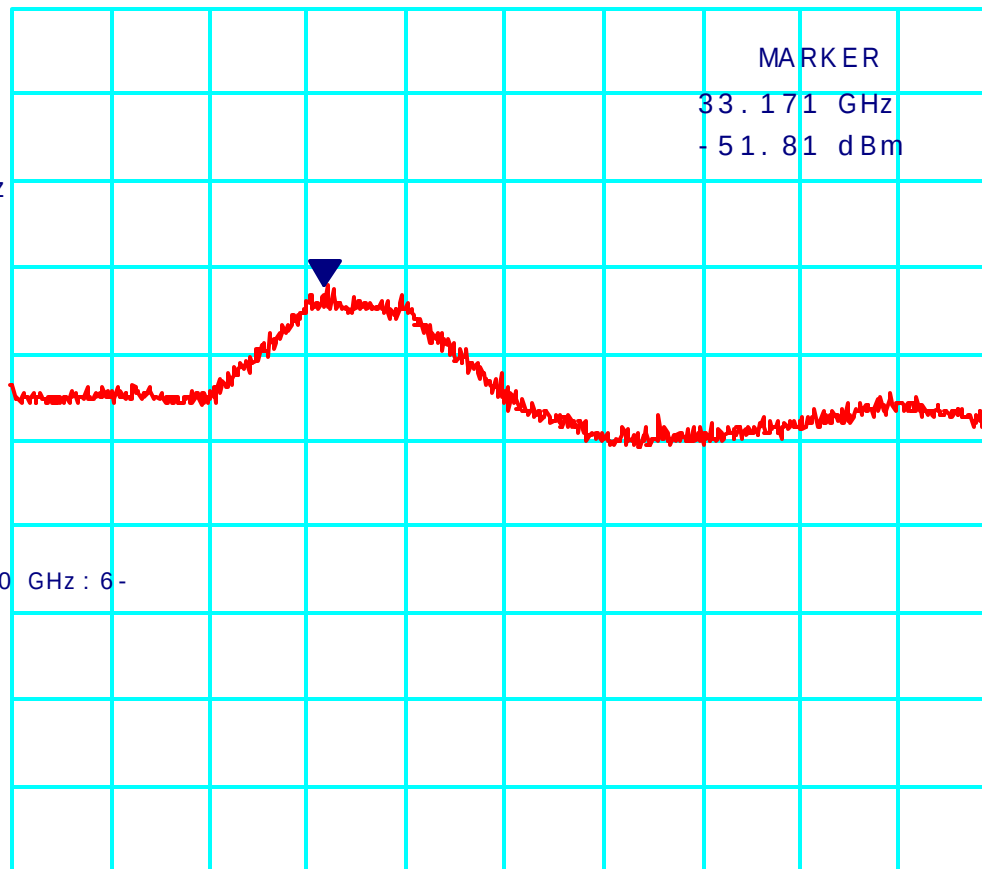
100 kHz

VBW

1 MHz

SWP

10 s



START 30.000 GHz

STOP 40.000 GHz