

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

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

PLOT # 49

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: BPSK (9 Mb/s)

Band-Edge

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 06:42:22 2003

REF 15.0 dBm

ATT 20 dB

A_write&maxB_blank

10dB/

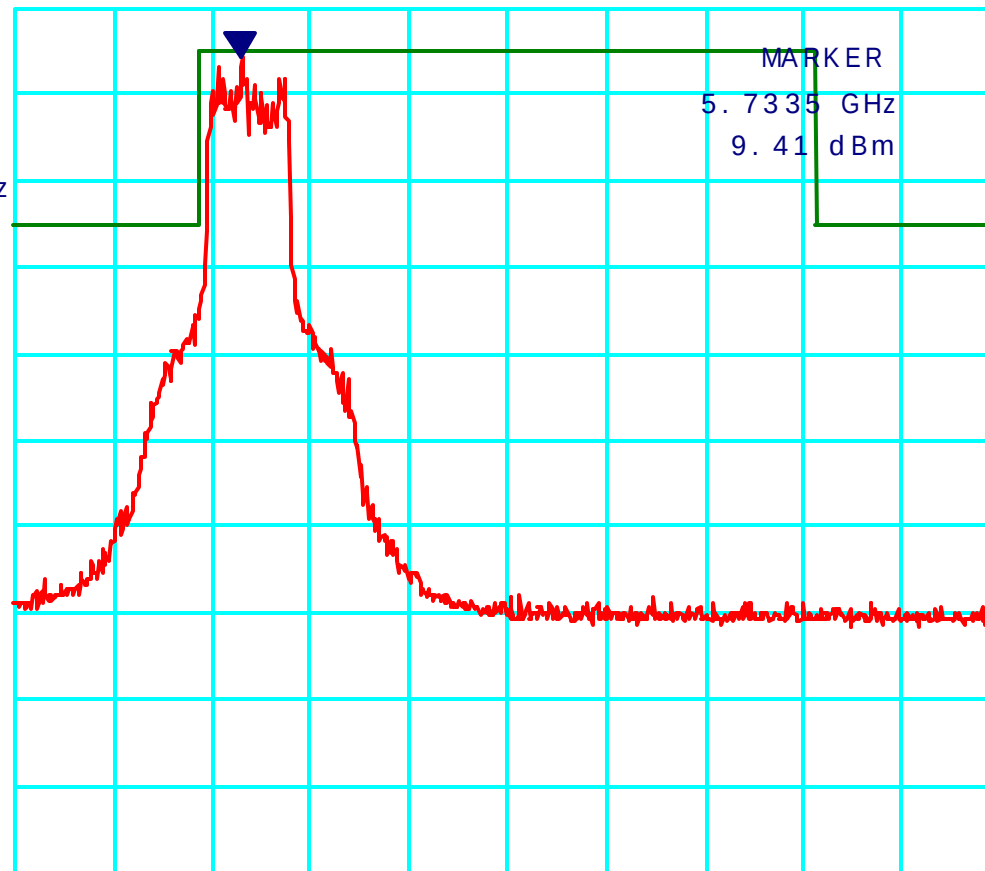
MKR
5.7335 GHz

REF OFS
11.5 dB

RBW
100 kHz

VBW
1 MHz

SWP
10 s



CENTER 5.7875 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 # 50

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: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 06:45:10 2003

REF 15.0 dBm

ATT 20 dB

A_write&maxB_blank

10dB/

MKR

5.726 GHz

MARKER

5.726 GHz

8.38 dBm

REF OFS

11.5 dB

RBW

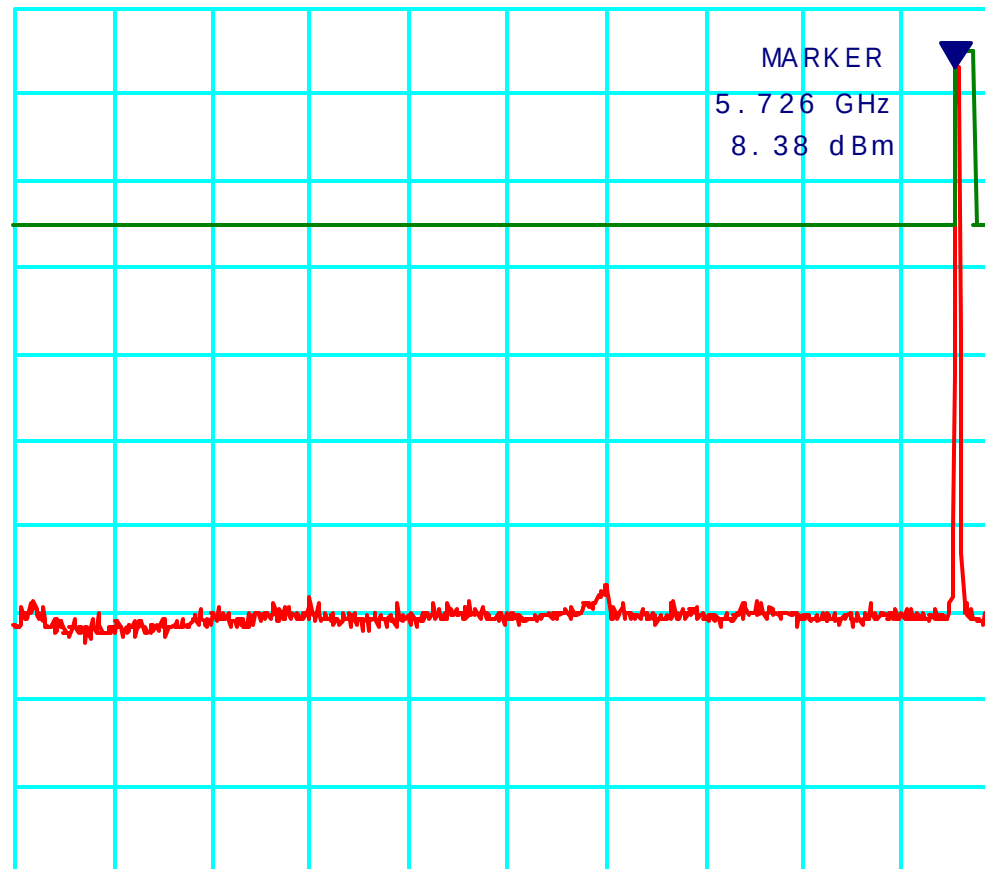
100 kHz

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 # 51

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

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

Modulation: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:24:23 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

30.750 GHz

REF OFS

11.5 dB

RBW

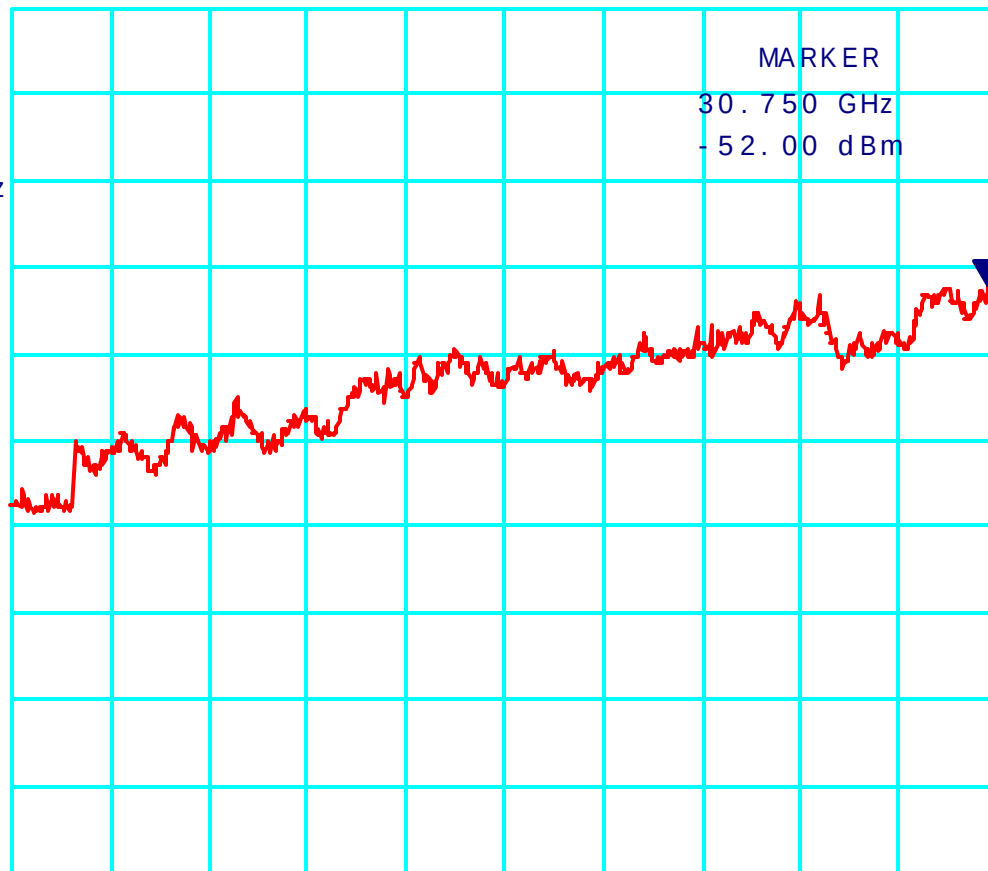
100 kHz

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 # 52

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

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

Modulation: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:06:15 2003

REF - 20.0 dBm

ATT 70 dB

A_write&maxB_blank

10 dB/

MKR
33.557 GHz

MARKER
33.557 GHz
- 53.03 dBm

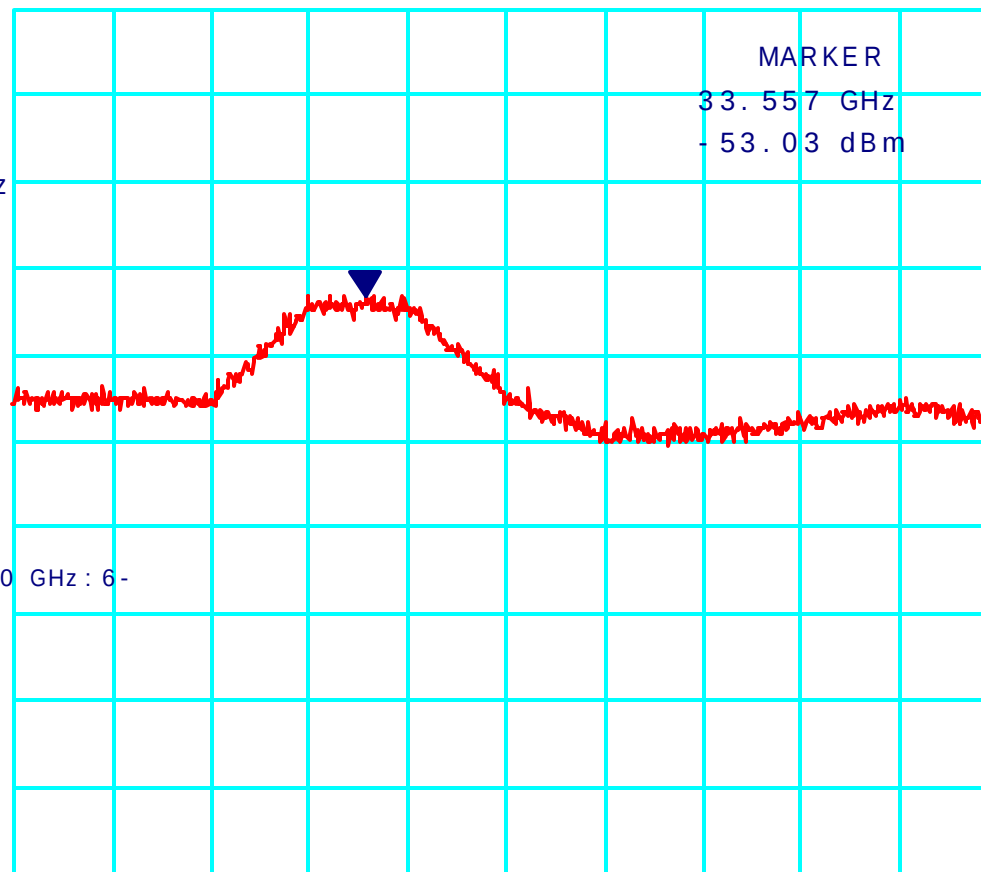
REF OFS
11.5 dB

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 # 53

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

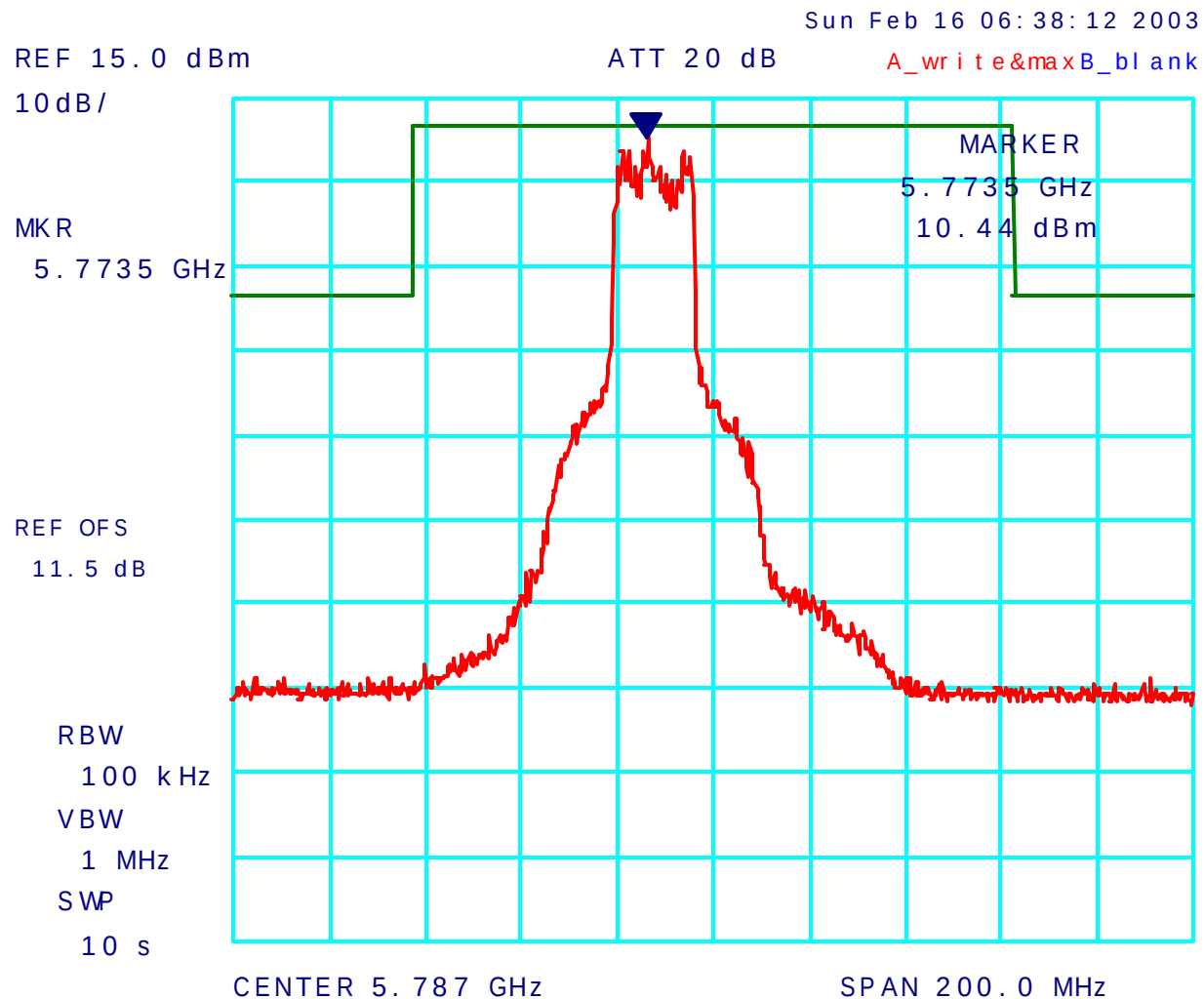
Channel: 3, Tx Frequency: 5775 MHz, Power Output: 25.44 dBm

Modulation: BPSK (9 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 # 54

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

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

Modulation: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 06:35:28 2003

REF 15.0 dBm

ATT 20 dB

A_write&maxB_blank

10dB/

MKR

5.760 GHz

MARKER

5.760 GHz

8.22 dBm

REF OFS

11.5 dB

RBW

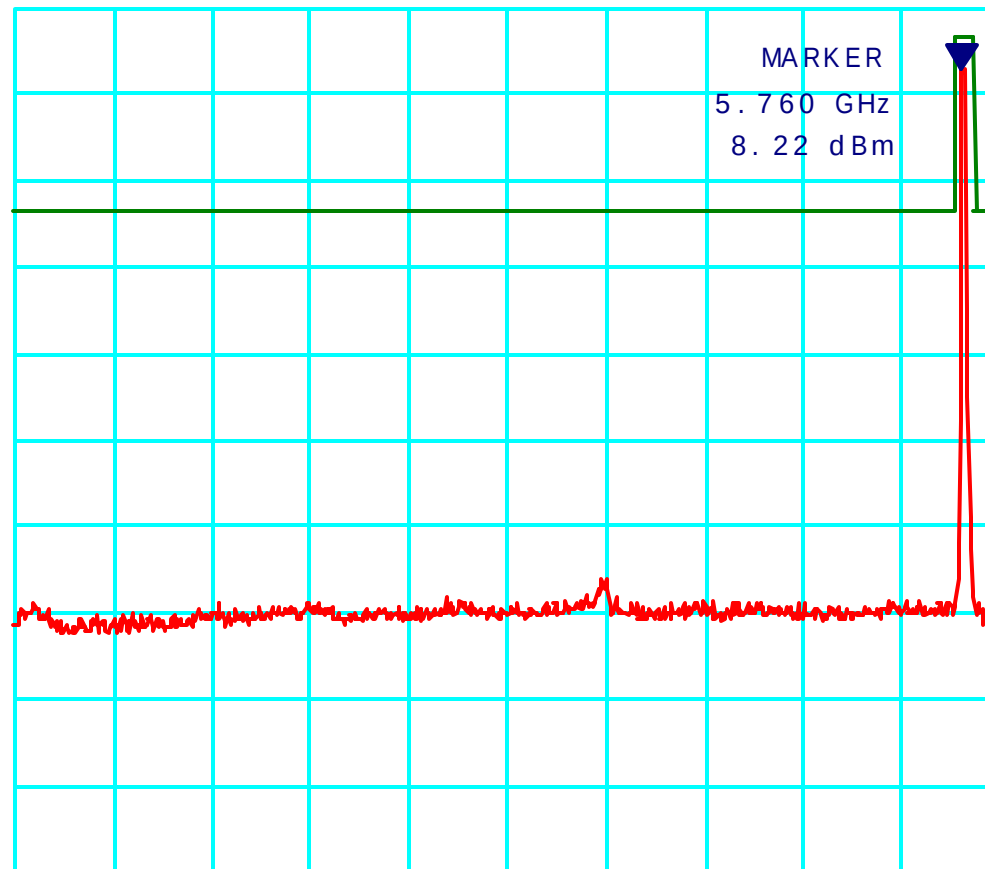
100 kHz

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 # 55

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

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

Modulation: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:26:15 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

30.929 GHz

REF OFS

11.5 dB

RBW

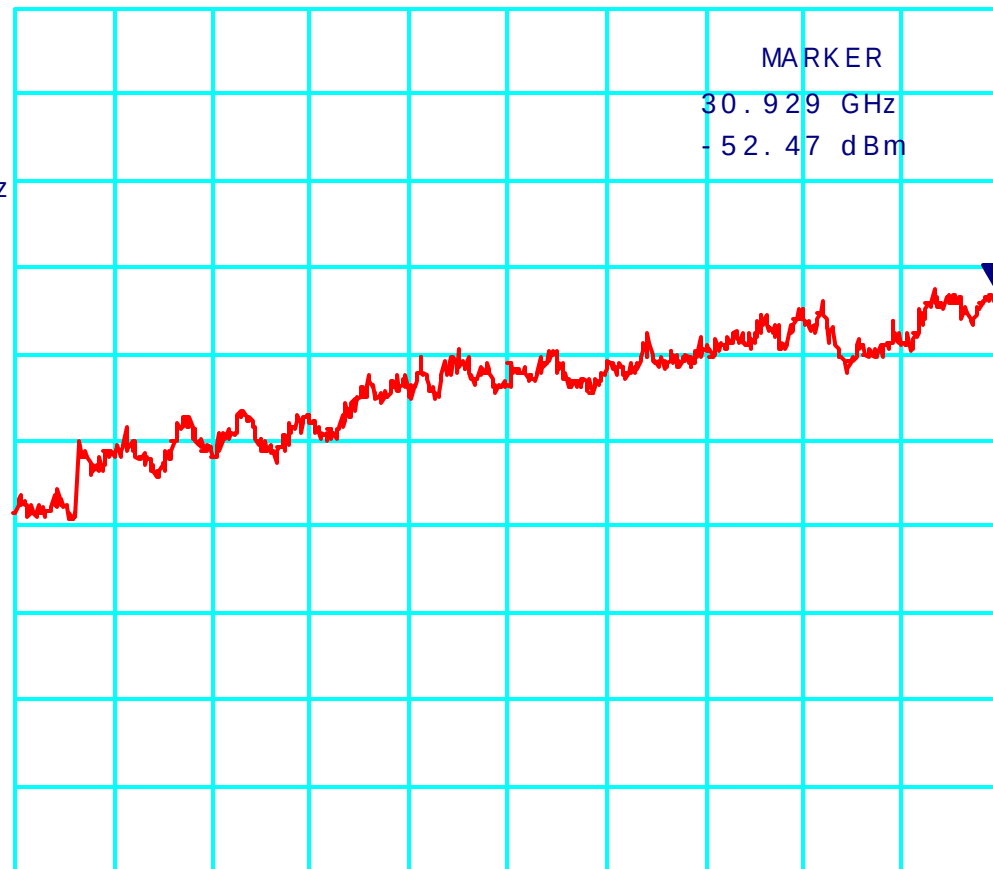
100 kHz

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 # 56

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

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

Modulation: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:04:31 2003

REF - 20.0 dBm

ATT 70 dB

A_write&maxB_blank

10 dB/

MKR

33.971 GHz

MARKER

33.971 GHz

- 52.97 dBm

REF OFS

11.5 dB

EXT 26.5~40.0 GHz: 6-

RBW

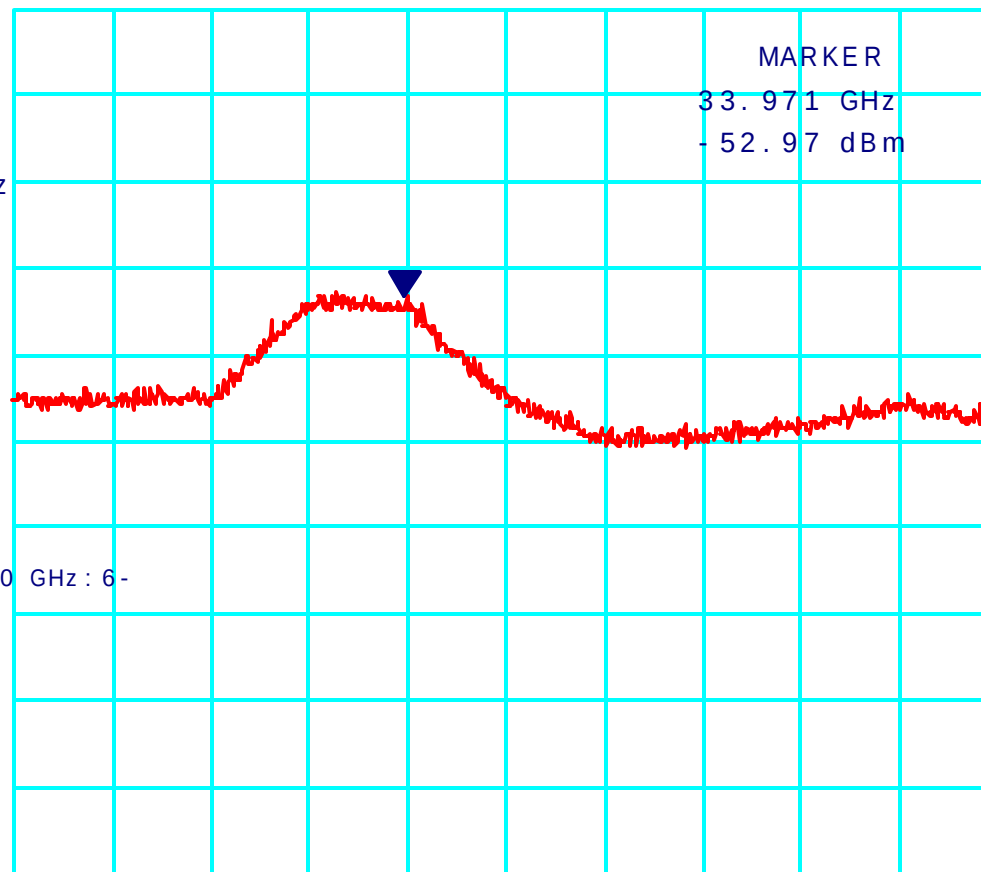
100 kHz

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 # 57

FCC ID: QC8-AN50S



UltraTech
Engineering Labs Inc.

REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

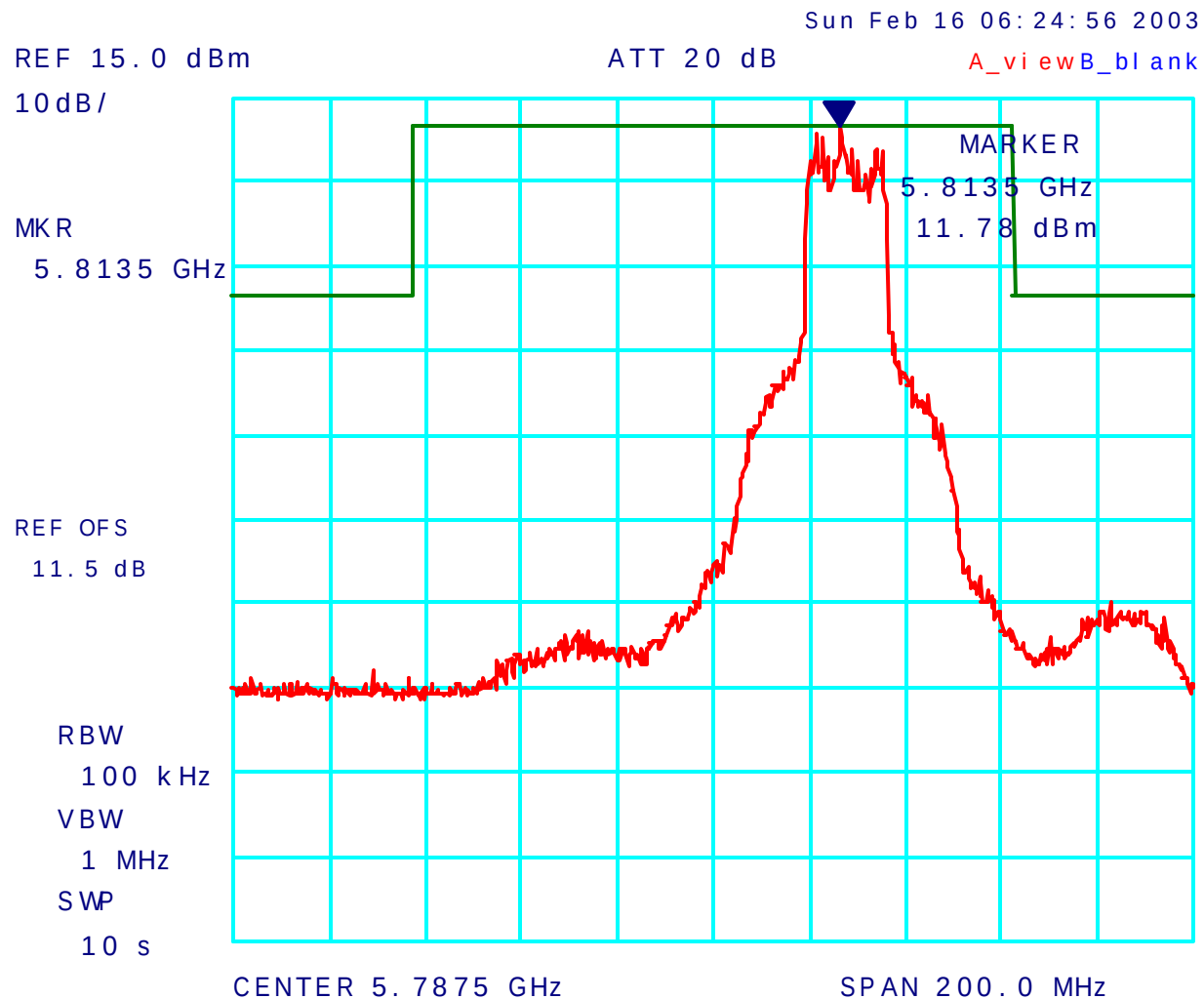
Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: BPSK (9 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 # 58

FCC ID: QC8-AN50S



REDLINE COMMUNICATIONS INC.

AN-50 SYSTEM

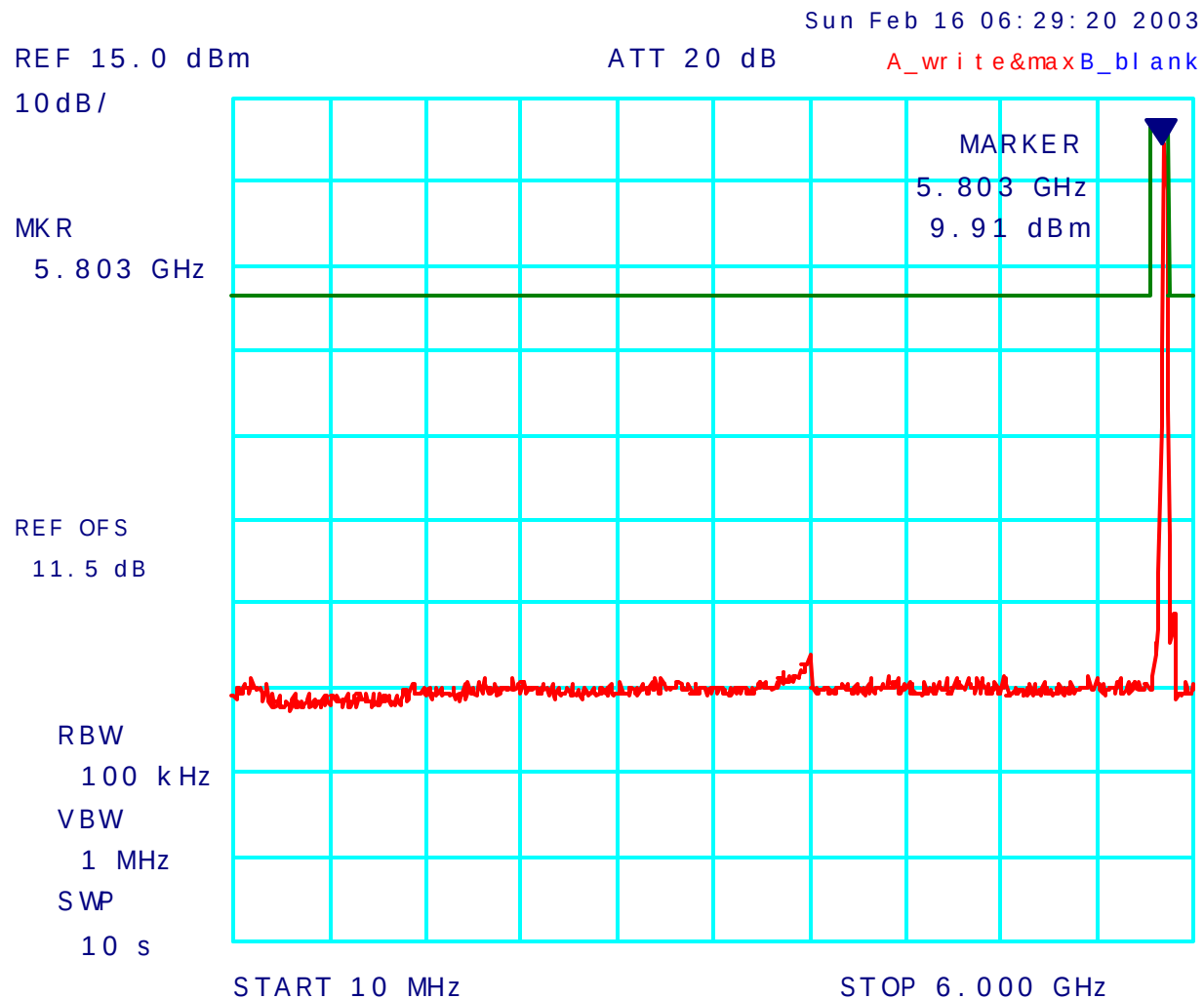
Channel: 5, Tx Frequency: 5815 MHz, Power Output: 26.03 dBm

Modulation: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

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 # 59

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: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 09:28:12 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

30.857 GHz

REF OFS

11.5 dB

RBW

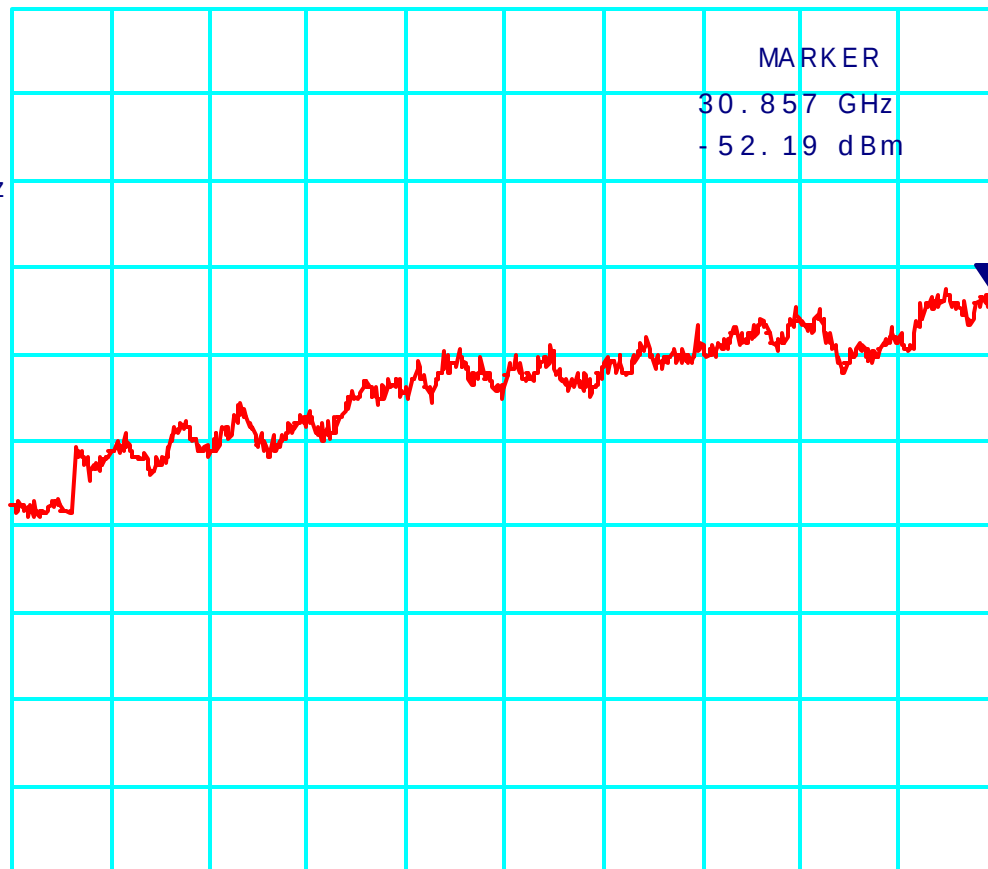
100 kHz

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 # 60

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: BPSK (9 Mb/s)

Spurious RF Antenna Conducted Emissions

Date: February 16, 2003

Tested by: Hung Trinh

Sun Feb 16 10:02:21 2003

REF - 20.0 dBm

ATT 70 dB

A_write&maxB_blank

10 dB/

MKR

33.257 GHz

MARKER

33.257 GHz

- 52.66 dBm

REF OFS

11.5 dB

EXT 26.5~40.0 GHz: 6-

RBW

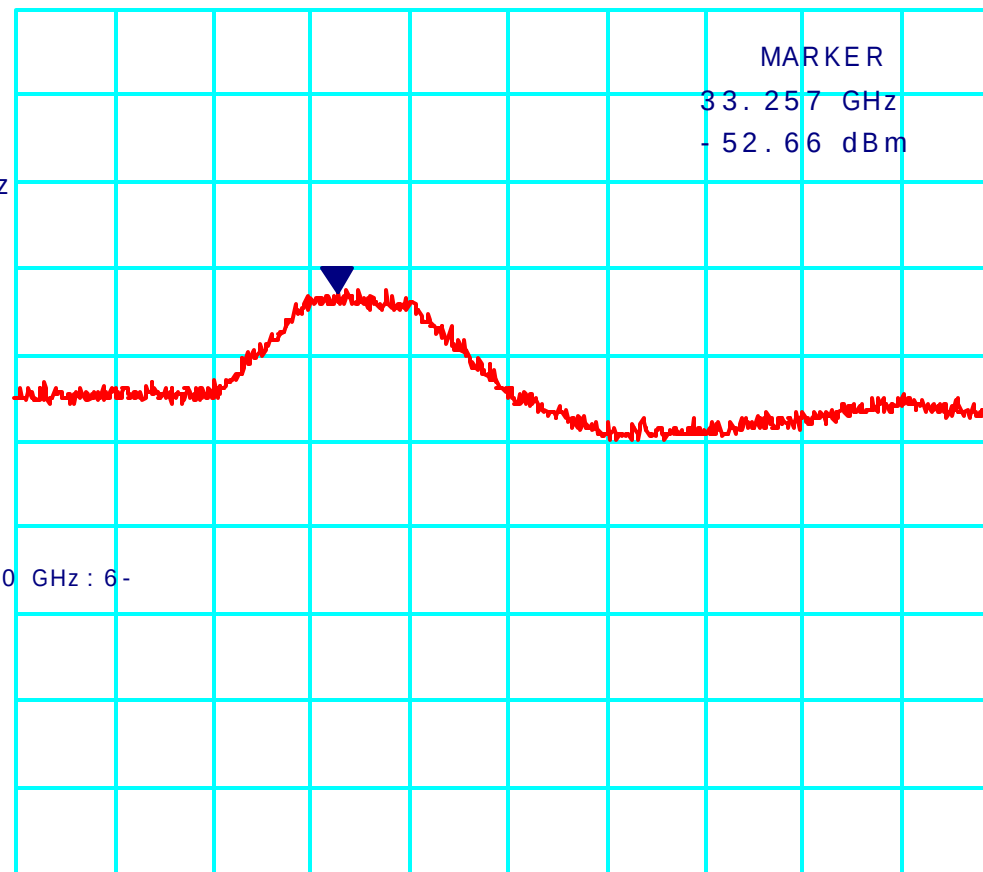
100 kHz

VBW

1 MHz

SWP

10 s



START 30.000 GHz

STOP 40.000 GHz