

Type Acceptance Test Report

**Multimode PCS Repeater
FCC Rule Parts: 2, 15 & 24**

ACS Report Number: 03-0089-24TA

Manufacturer: EMS Wireless
Model: Link2Cell

Band Edge Compliance

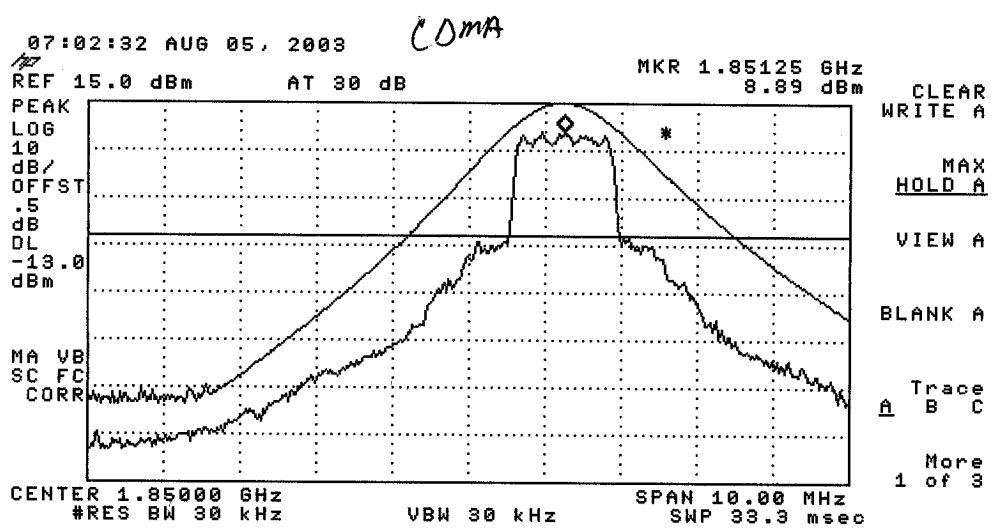
Band Edge Compliance

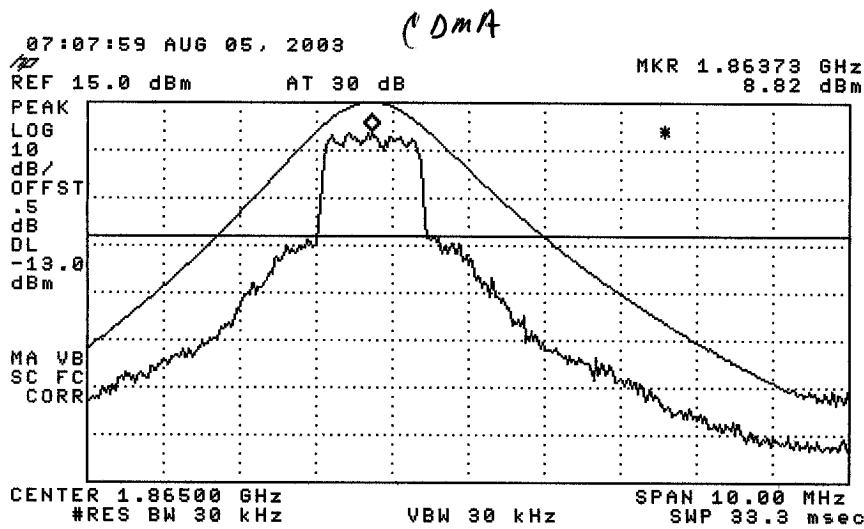
Uplink and downlink band edge plots are shown in plots 7 - 12 below. The test setup is shown in figure 2 below:



Figure 2: Setup Diagram

Diagram Number	Equipment Type	MFG	Model	Serial Number	Cal Date	Cal Due
1	RF Signal Generator	Agilent	E4432B	A55445-4	4/5/2003	4/5/2004
2	Spectrum Analyzer	Agilent	8593E	A55445-1	4/5/2003	4/5/2004





CLEAR
WRITE A
MAX
HOLD A
VIEW A
BLANK A
Trace
A B C
More
1 of 3

07:10:02 AUG 05, 2003

CDMA

REF 15.0 dBm AT 30 dB

MKR 1.86625 GHz
8.35 dBm

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm

MA VB
SC FC
CORR

CENTER 1.86500 GHz
#RES BW 30 kHz

VBW 30 kHz

SPAN 10.00 MHz
SWP 33.3 msec

CLEAR
WRITE A

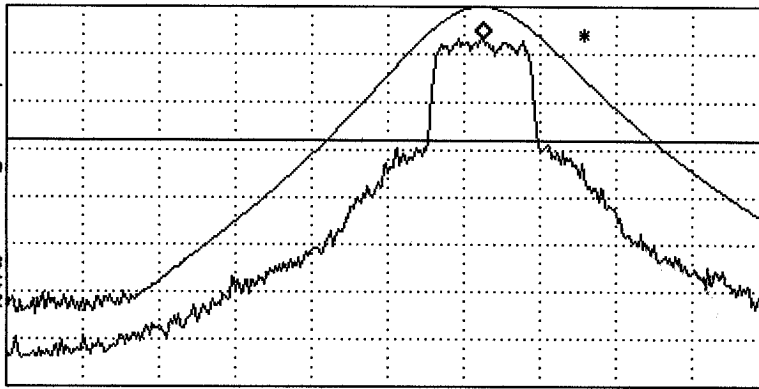
MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 3

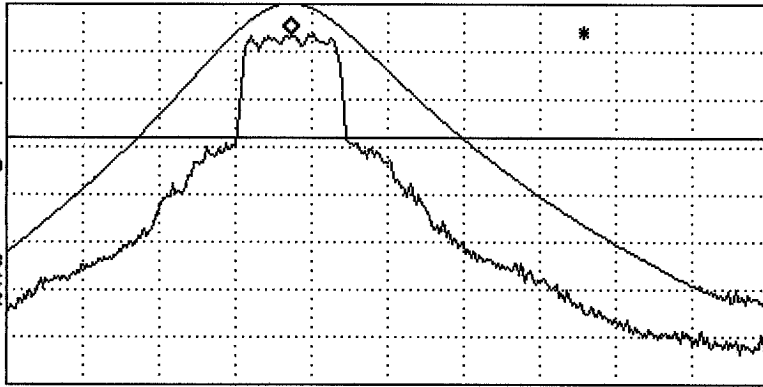


07:18:29 AUG 05, 2003 *C Dm A*

REF 15.0 dBm AT 30 dB MKR 1.86873 GHz 8.72 dBm

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm

MA VB
SC FC
CORR



CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 3

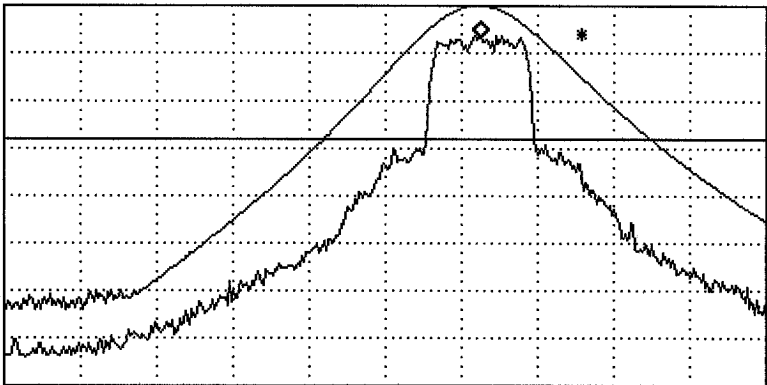
CENTER 1.87000 GHz SPAN 10.00 MHz
#RES BW 30 kHz VBW 30 kHz SWP 33.3 msec

07:15:37 AUG 05, 2003 *CDMA*

REF 15.0 dBm AT 30 dB MKR 1.87125 GHz 8.33 dBm

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm

MA VB
SC FC
CORR



CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 3

CENTER 1.87000 GHz SPAN 10.00 MHz
#RES BW 30 kHz VBW 30 kHz SWP 33.3 msec

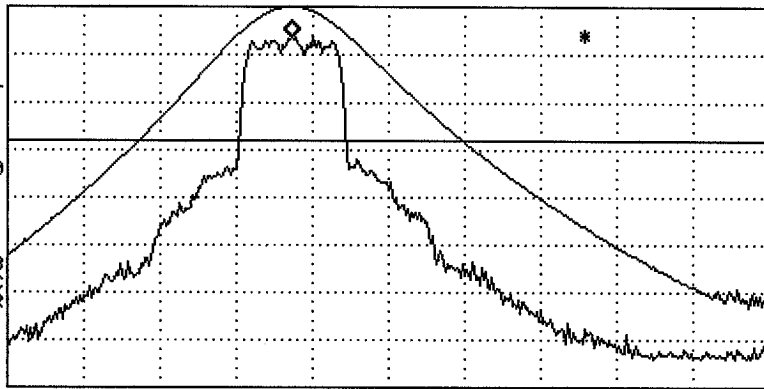
CDMA

07:13:06 AUG 05, 2003

REF 15.0 dBm AT 30 dB

MKR 1.88373 GHz
8.53 dBm

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm
MA VB
SC FC
CORR



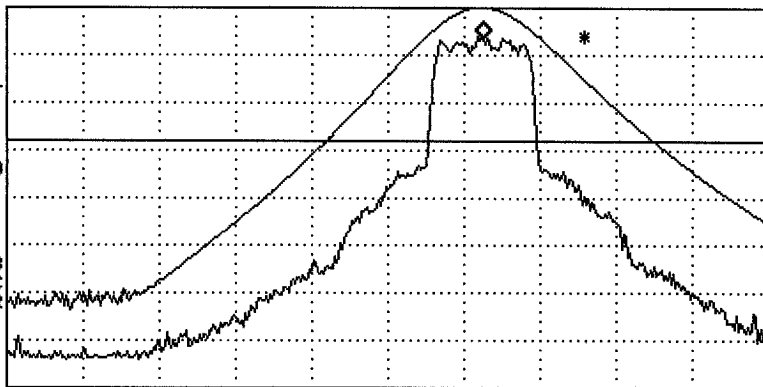
CLEAR
WRITE A
MAX
HOLD A
VIEW A
BLANK A
Trace
A B C
More
1 of 3

07:32:09 AUG 05, 2003 *CDMA*

REF 15.0 dBm AT 30 dB MKR 1.88625 GHz 8.46 dBm

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm

MA VB
SC FC
CORR



CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

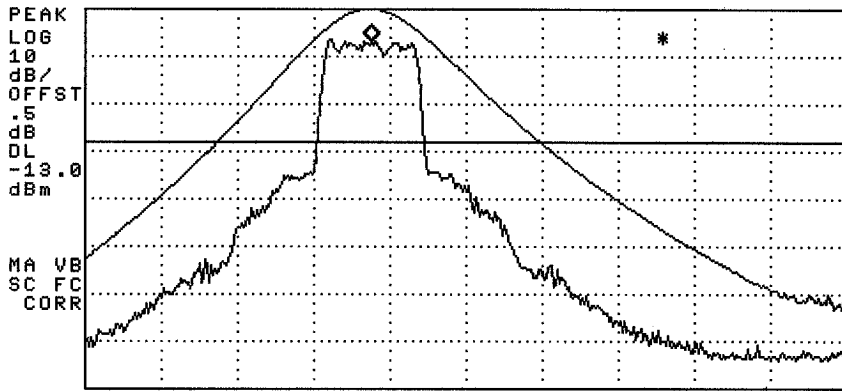
Trace
A B C

More
1 of 3

CENTER 1.88500 GHz SPAN 10.00 MHz
#RES BW 30 kHz VBM 30 kHz SWP 33.3 msec

07:34:51 AUG 05, 2003 *CDMA*

REF 15.0 dBm AT 30 dB MKR 1.88875 GHz 8.95 dBm



CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 3

CENTER 1.89000 GHz SPAN 10.00 MHz
#RES BW 30 kHz VBW 30 kHz SWP 33.3 msec

07:37:40 AUG 05, 2003

CDMA

MKR 1.89125 GHz
8.36 dBm

REF 15.0 dBm AT 30 dB

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm

MA VB
SC FC
CORR

CENTER 1.89000 GHz
#RES BW 30 kHz

VBW 30 kHz

SPAN 10.00 MHz
SWP 33.3 msec

CLEAR
WRITE A

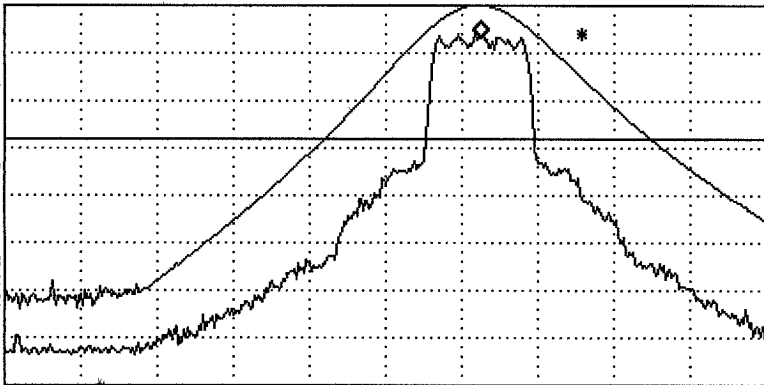
MAX
HOLD A

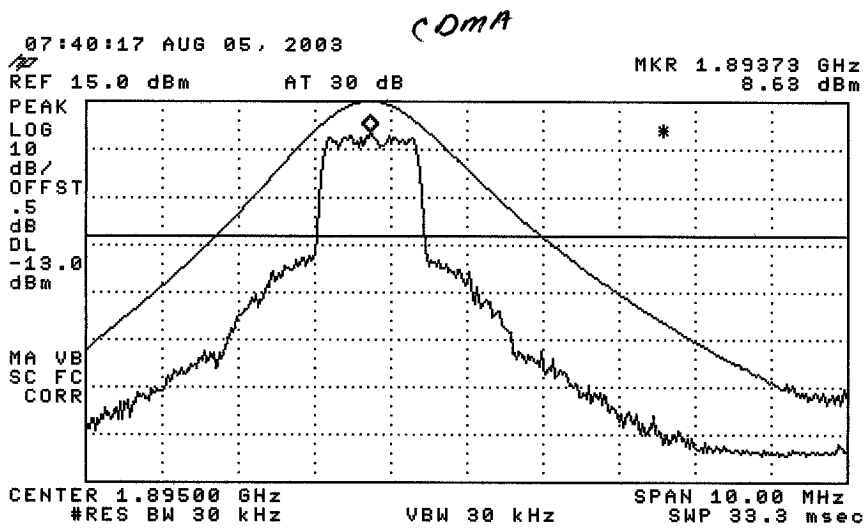
VIEW A

BLANK A

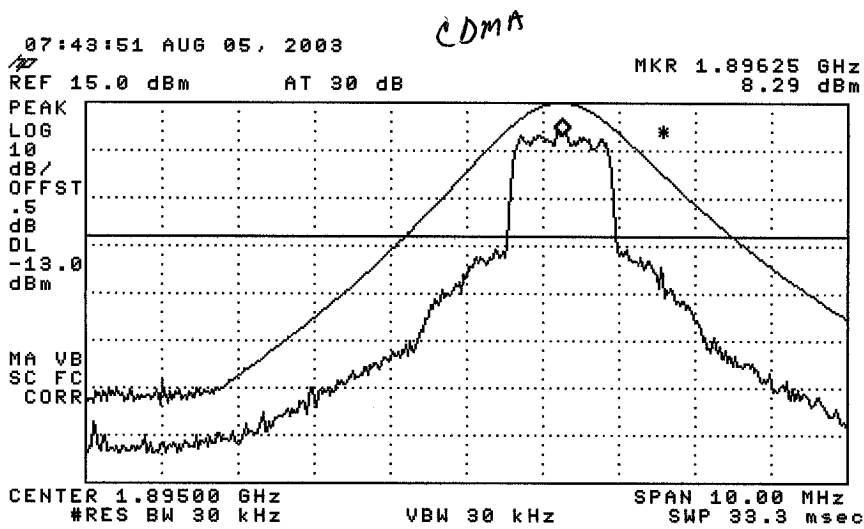
Trace
A B C

More
1 of 3





CLEAR
WRITE A
MAX
HOLD A
VIEW A
BLANK A
Trace
A B C
More
1 of 3



CDMA

08:29:58 AUG 05, 2003

REF 15.0 dBm AT 30 dB

MKR 1.90873 GHz
8.91 dBm

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm

MA VB
SC FC
CORR

CENTER 1.91000 GHz
#RES BW 30 kHz

VBW 30 kHz

SPAN 10.00 MHz
SWP 33.3 msec

CLEAR
WRITE A

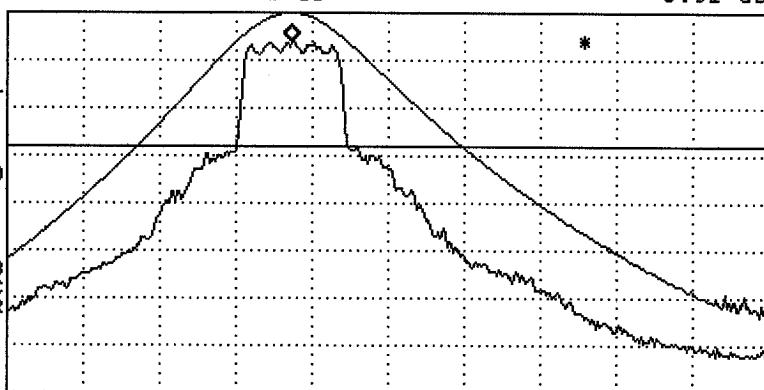
MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 3



CDMA

09:10:09 AUG 05, 2003

REF 2.0 dBm

AT 20 dB

MKR 1.93125 GHz

-5.19 dBm

PEAK

LOG

10

dB/

OFFST

.5

dB

DL

-13.0

dBm

MA VB

SC FC

CORR

CENTER 1.93000 GHz

#RES BW 30 kHz

VBW 30 kHz

SPAN 10.00 MHz

SWP 33.3 msec

CLEAR
WRITE A

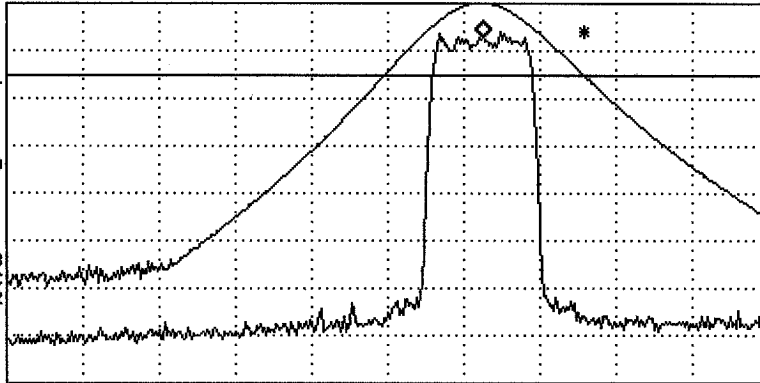
MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 3



CDMA

10:55:35 AUG 05, 2003

REF 2.0 dBm AT 20 dB

MKR 1.94373 GHz
-5.04 dBm

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm

MA VB
SC FC
CORR

CENTER 1.94500 GHz
#RES BW 30 kHz

VBW 30 kHz

SPAN 10.00 MHz
SWP 33.3 msec

CLEAR
WRITE A

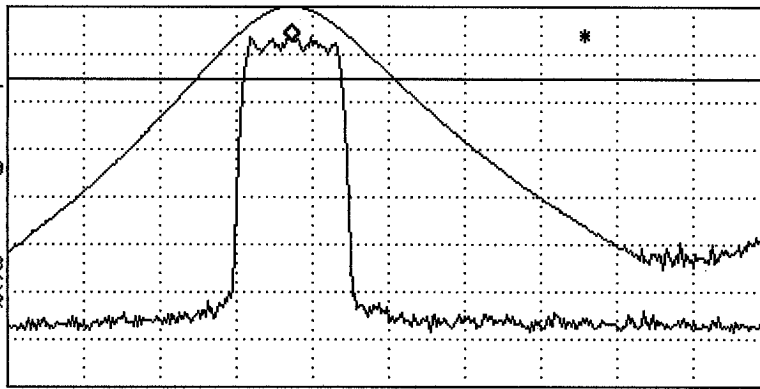
MAX
HOLD A

VIEW A

BLANK A

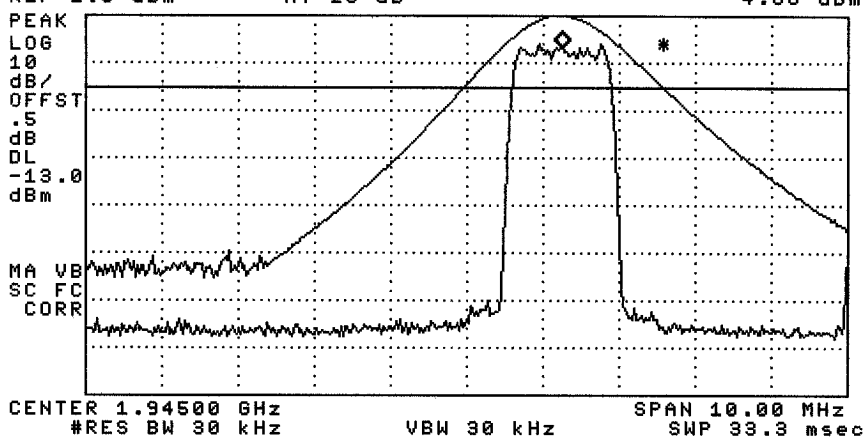
Trace
A B C

More
1 of 3



10:57:35 AUG 05, 2003 Cdma

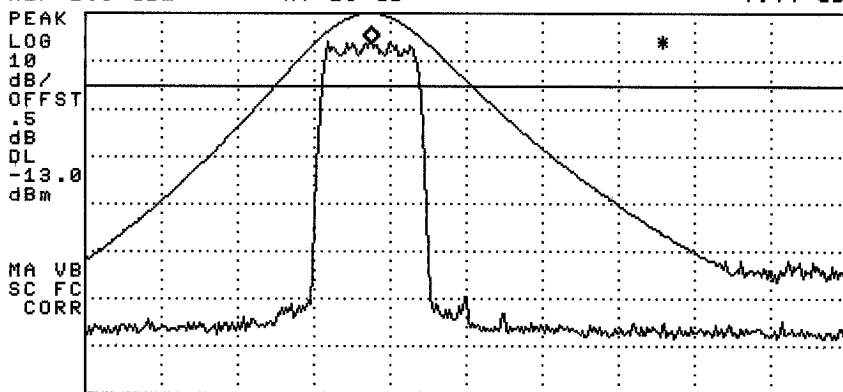
REF 2.0 dBm AT 20 dB MKR 1.94625 GHz -4.68 dBm



CLEAR
WRITE A
MAX
HOLD A
VIEW A
BLANK A
Trace
A B C
More
1 of 3

11:00:22 AUG 05, 2003 CDM A

REF 2.0 dBm AT 20 dB MKR 1.94875 GHz -4.44 dBm



CLEAR
WRITE A

MAX
HOLD A

VIEW A

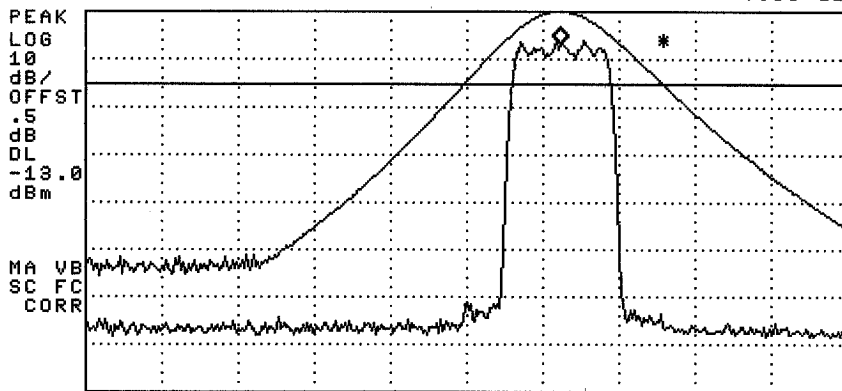
BLANK A

Trace
A B C

More
1 of 3

11:03:24 AUG 05, 2003 *CDMA*

REF 2.0 dBm AT 20 dB MKR 1.95123 GHz
-4.89 dBm



CLEAR
WRITE A

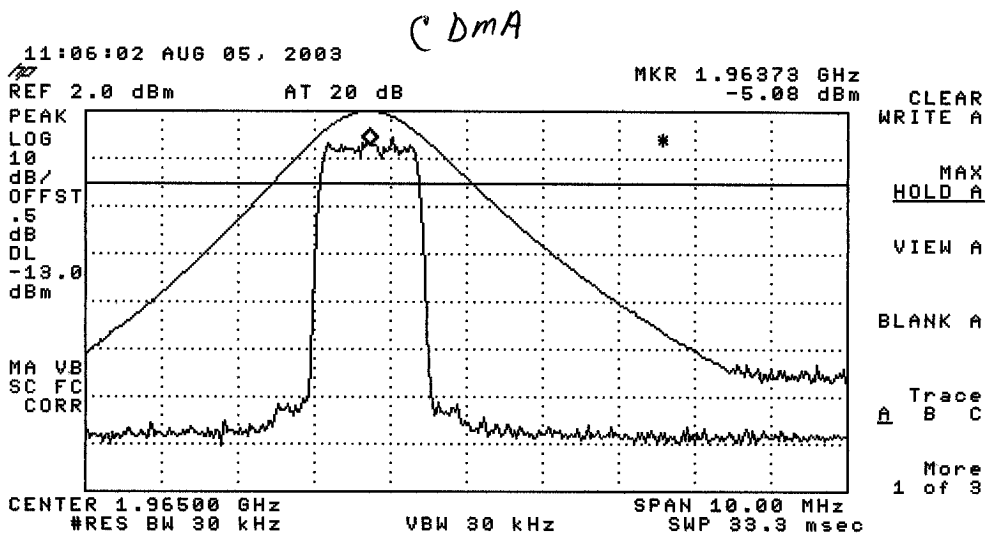
MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

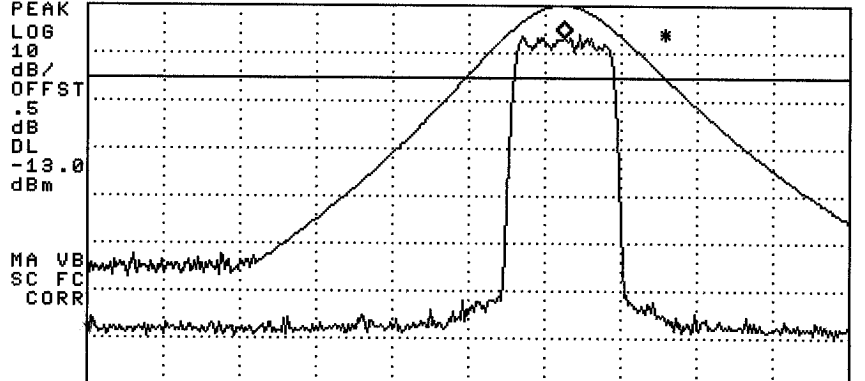
More
1 of 3



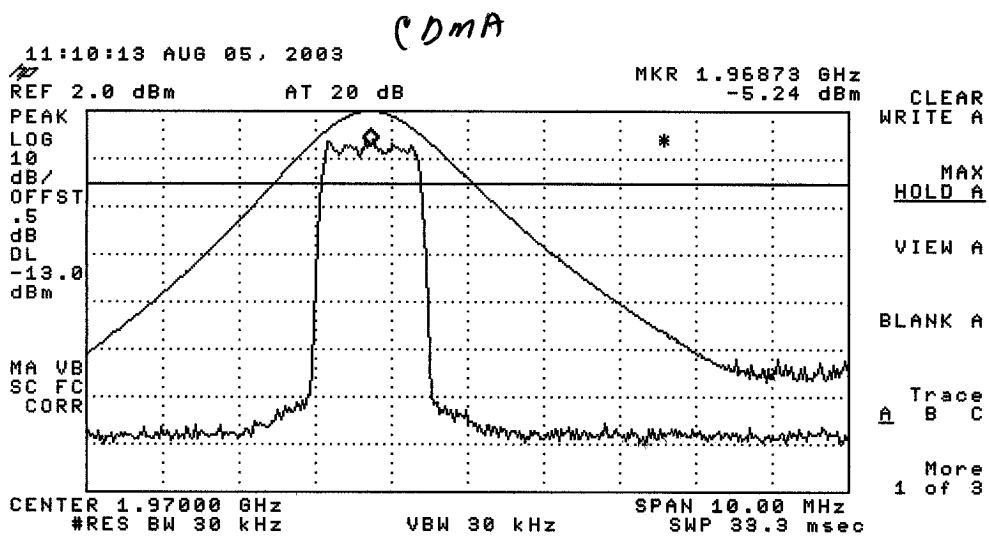
11:07:56 AUG 05, 2003

CDMA

REF 2.0 dBm AT 20 dB MKR 1.96625 GHz -4.82 dBm

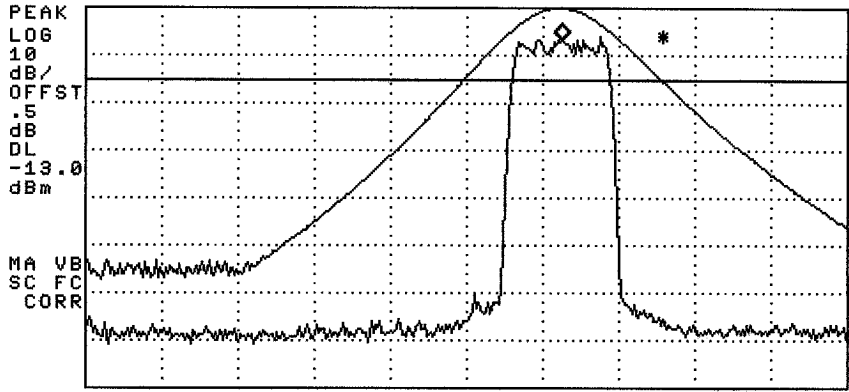


CLEAR
WRITE A
MAX
HOLD A
VIEW A
BLANK A
Trace
A B C
More
1 of 3



11:12:06 AUG 05, 2003 *CDMA*

REF 2.0 dBm AT 20 dB MKR 1.97125 GHz -4.59 dBm



CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

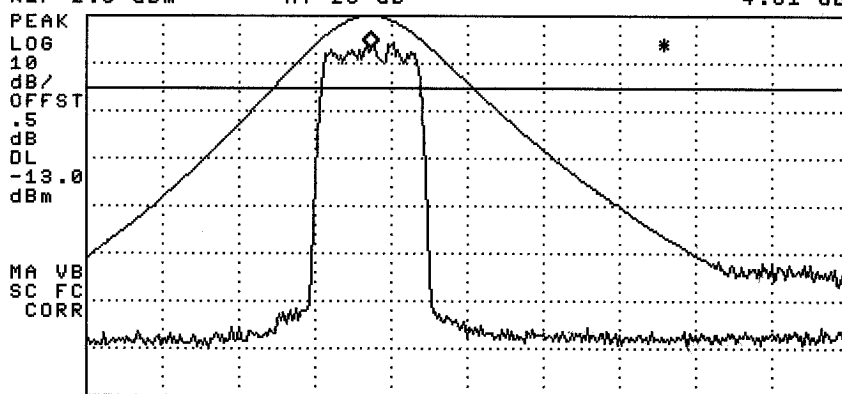
Trace
A B C

More
1 of 3

11:14:32 AUG 05, 2003

CDMA

REF 2.0 dBm AT 20 dB MKR 1.97373 GHz
-4.81 dBm



CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 3

CDMA

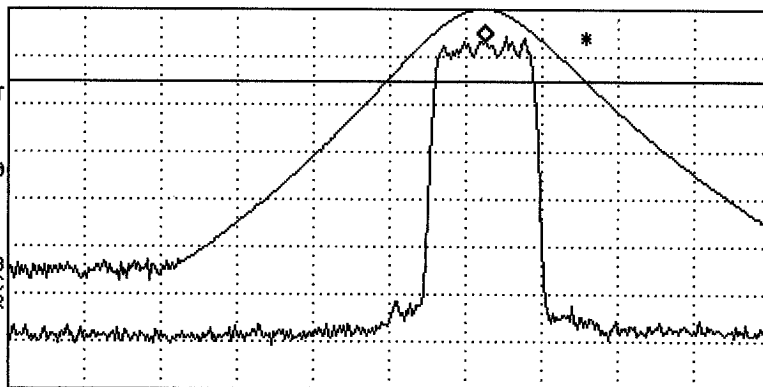
11:16:36 AUG 05, 2003

REF 2.0 dBm AT 20 dB

MKR 1.97625 GHz
-4.62 dBm

PEAK
LOG
10
dB/
OFFST
.5
dB
DL
-13.0
dBm

MA VB
SC FC
CORR



CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

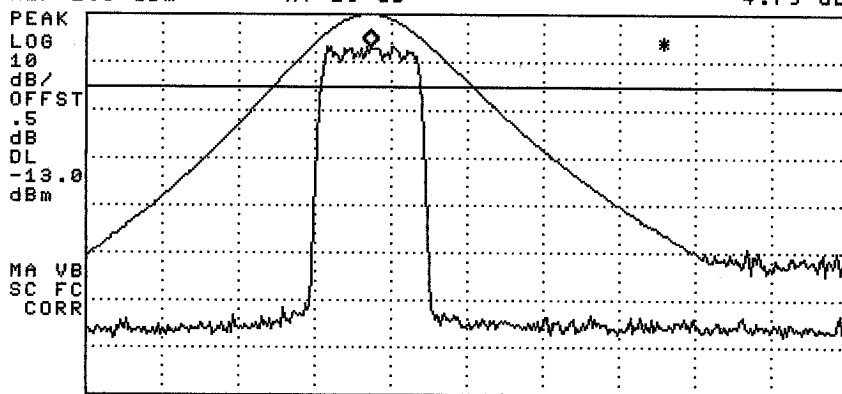
Trace
A B C

More
1 of 3

11:18:32 AUG 05, 2003

CDMA

REF 2.0 dBm AT 20 dB MKR 1.98873 GHz
-4.79 dBm



CLEAR
WRITE A

MAX
HOLD A

VIEW A

BLANK A

Trace
A B C

More
1 of 3