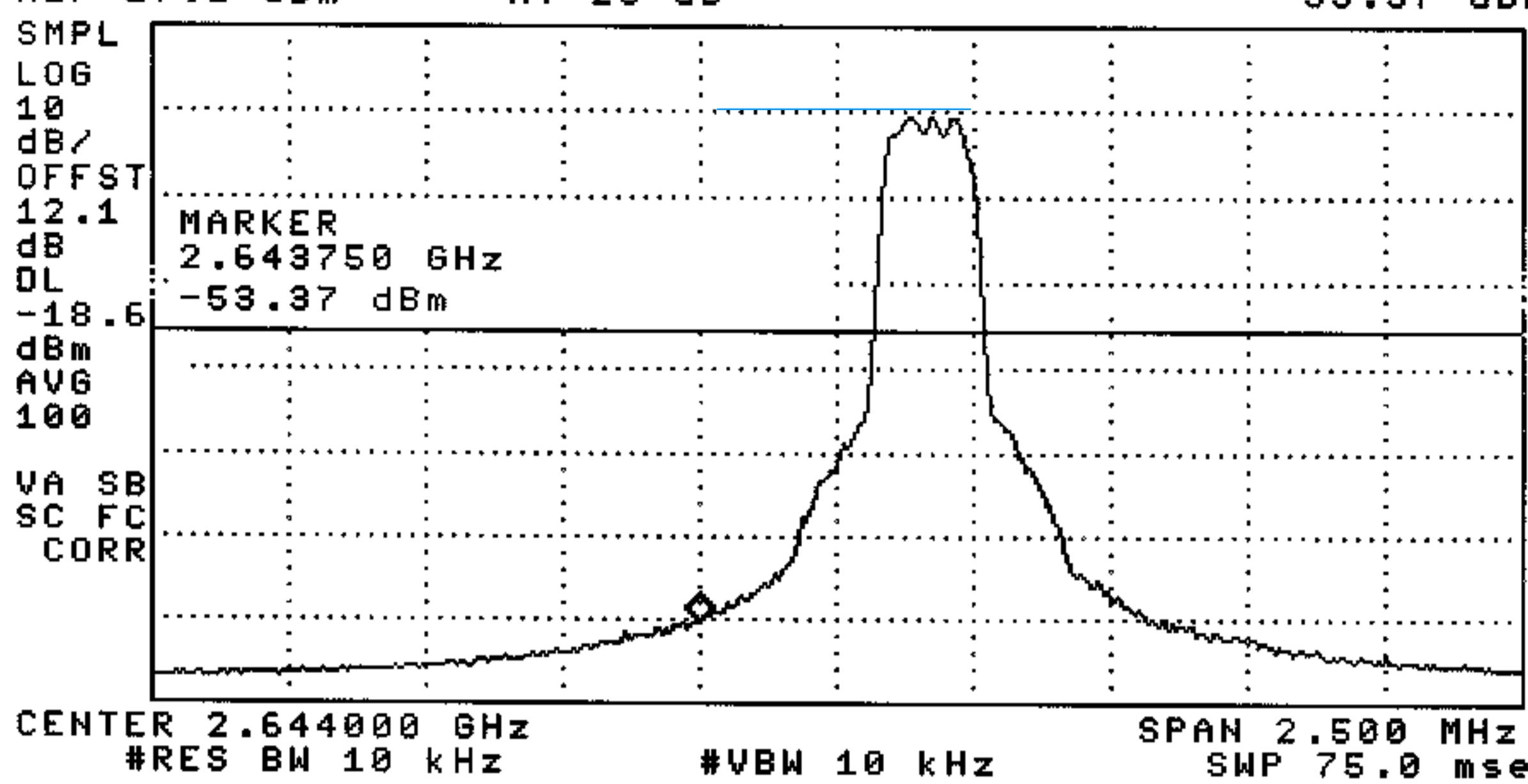


12:10:23 NOV 21, 2001  
TSI OUPP1804-2 16QAM 160K  
REF 17.1 dBm AT 20 dB

MKR 2.643750 GHz  
-53.37 dBm



MARKER  
NORMAL

MARKER  
△

MARKER  
AMPTD

SELECT  
1 2 3 4

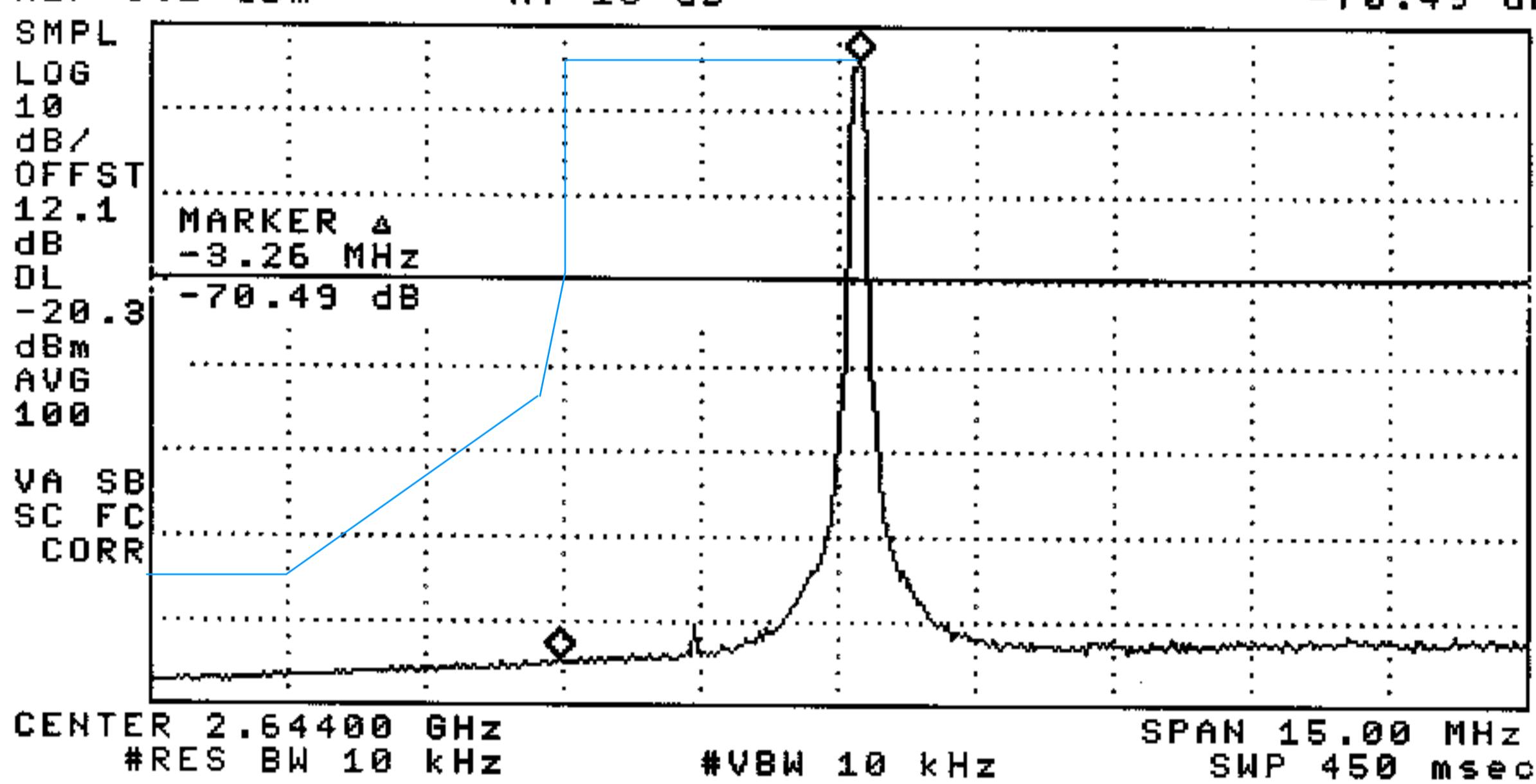
MARKER 1  
ON OFF

More  
1 of 3

(34)

12:12:59 NOV 21, 2001  
TSI OUPP1804-2 16QAM 160K  
REF 9.1 dBm AT 10 dB

MKR A -3.26 MHz  
-70.49 dB



MARKER  
NORMAL

MARKER  
△

MARKER  
AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

More  
1 of 3

(35)

LO 160 Kbps

14:35:48 NOV 21, 2001  
TSI OUPP1804-2 16QAM 160K  
REF 9.1 dBm AT 10 dB

MKRA 481 kHz  
-61.45 dB

SMPL  
LOG  
10  
dB/  
OFFST  
12.1  
dB  
481 kHz  
DL  
-19.2  
dBm  
AVG  
100  
VA SB  
SC FC  
CORR

CENTER 2.686000 GHz #RES BW 10 kHz #VBW 10 kHz SPAN 2.500 MHz SWP 75.0 msec

MARKER  
NORMAL

MARKER  
a

MARKER  
AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

More  
1 of 3

(36)

HI 160 Kbps

14:37:16 NOV 21, 2001  
TSI OUPP1804-2 16QAM 160K  
REF 9.1 dBm AT 10 dB

MKRA 3.23 MHz  
-70.48 dB

SMPL  
LOG  
10  
dB/  
OFFST  
12.1  
dB  
3.23 MHz  
DL  
-20.6  
dBm  
AVG  
100  
VA SB  
SC FC  
CORR

CENTER 2.68600 GHz #RES BW 10 kHz #VBW 10 kHz SPAN 15.00 MHz SWP 450 msec

MARKER  
NORMAL

MARKER  
a

MARKER  
AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

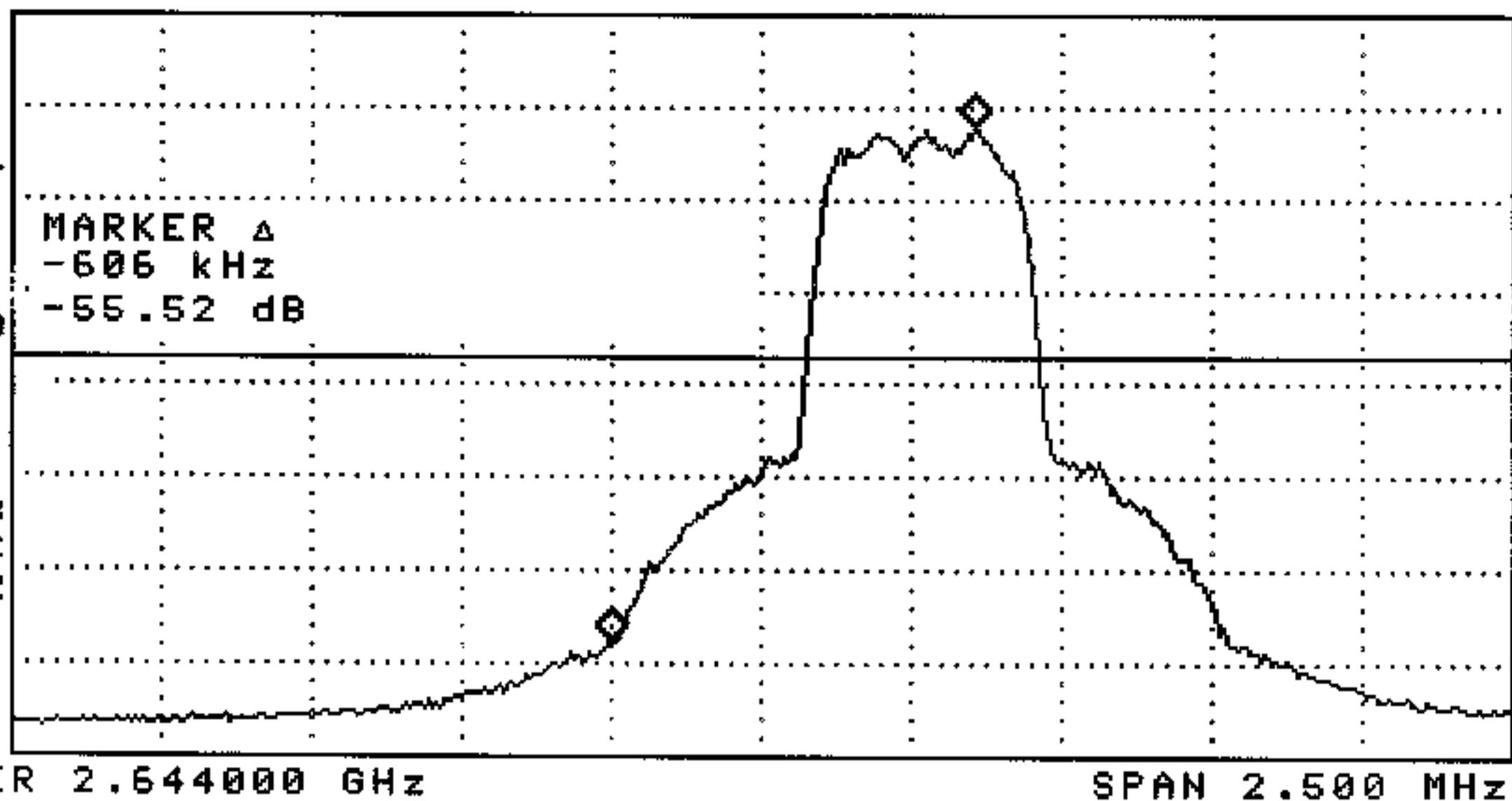
More  
1 of 3

(37)

19:57:01 NOV 21, 2001  
TSI OUPP1804-2 16QAM 320K  
REF 16.1 dBm AT 20 dB

MKRA -606 kHz  
-55.52 dB

SMPL  
LOG  
10  
dB/  
OFFST  
12.1  
dB  
-21.0  
dBm  
AVG  
100  
VA SB  
SC FC  
CORR



MARKER  
NORMAL

MARKER  
0

MARKER  
AMPTD

SELECT  
1 2 3 4

(38)

MARKER 1  
ON OFF

More  
1 of 3

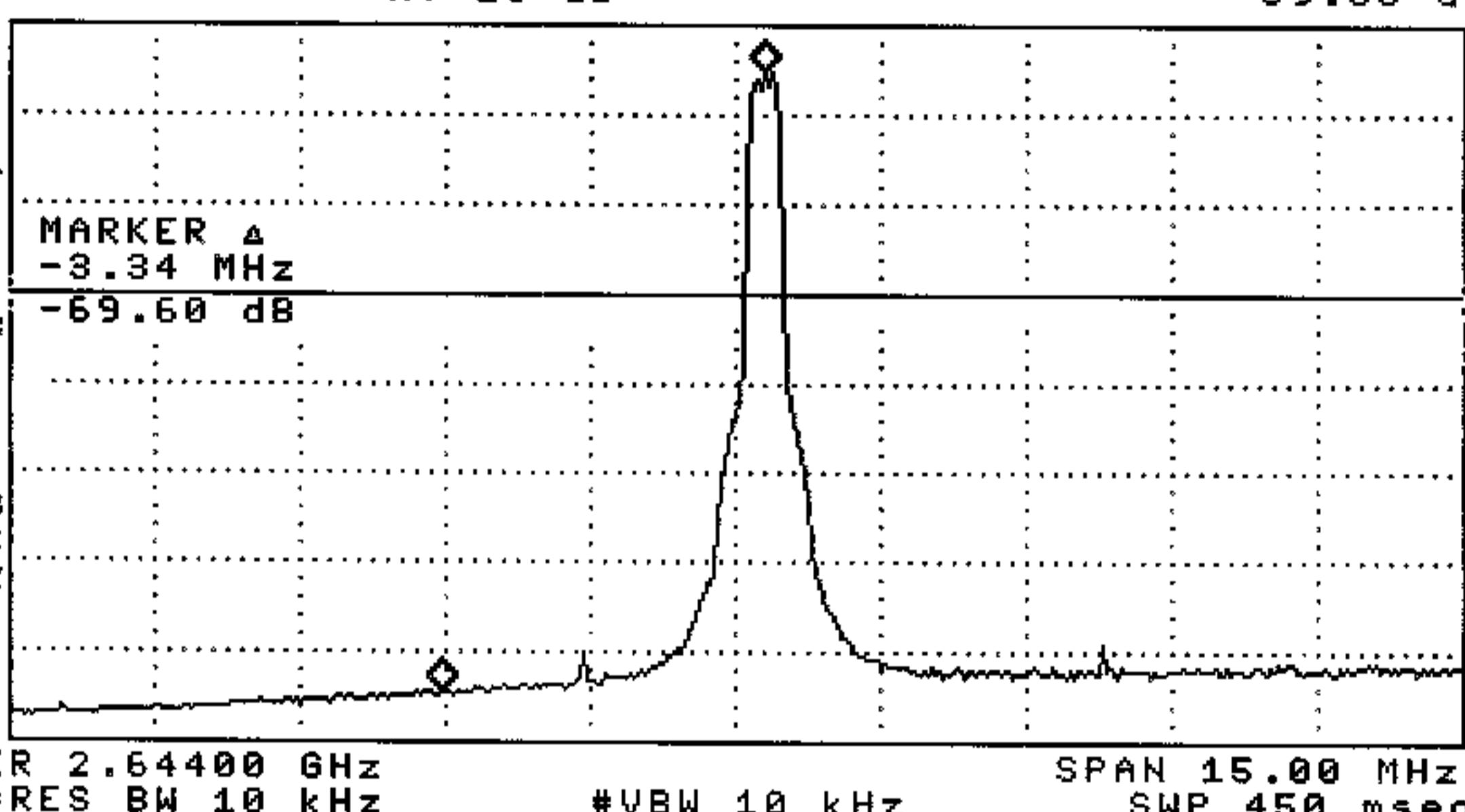
CENTER 2.644000 GHz #RES BW 10 kHz SPAN 2.500 MHz SWP 75.0 msec

Lo 320Kbps

19:59:14 NOV 21, 2001  
TSI OUPP1804-2 16QAM 320K  
REF 8.1 dBm AT 10 dB

MKRA -3.34 MHz  
-69.60 dB

SMPL  
LOG  
10  
dB/  
OFFST  
12.1  
dB  
-21.8  
dBm  
AVG  
100  
WA SB  
SC FC  
CORR



MARKER  
NORMAL

MARKER  
0

MARKER  
AMPTD

(39)

SELECT  
1 2 3 4

MARKER 1  
ON OFF

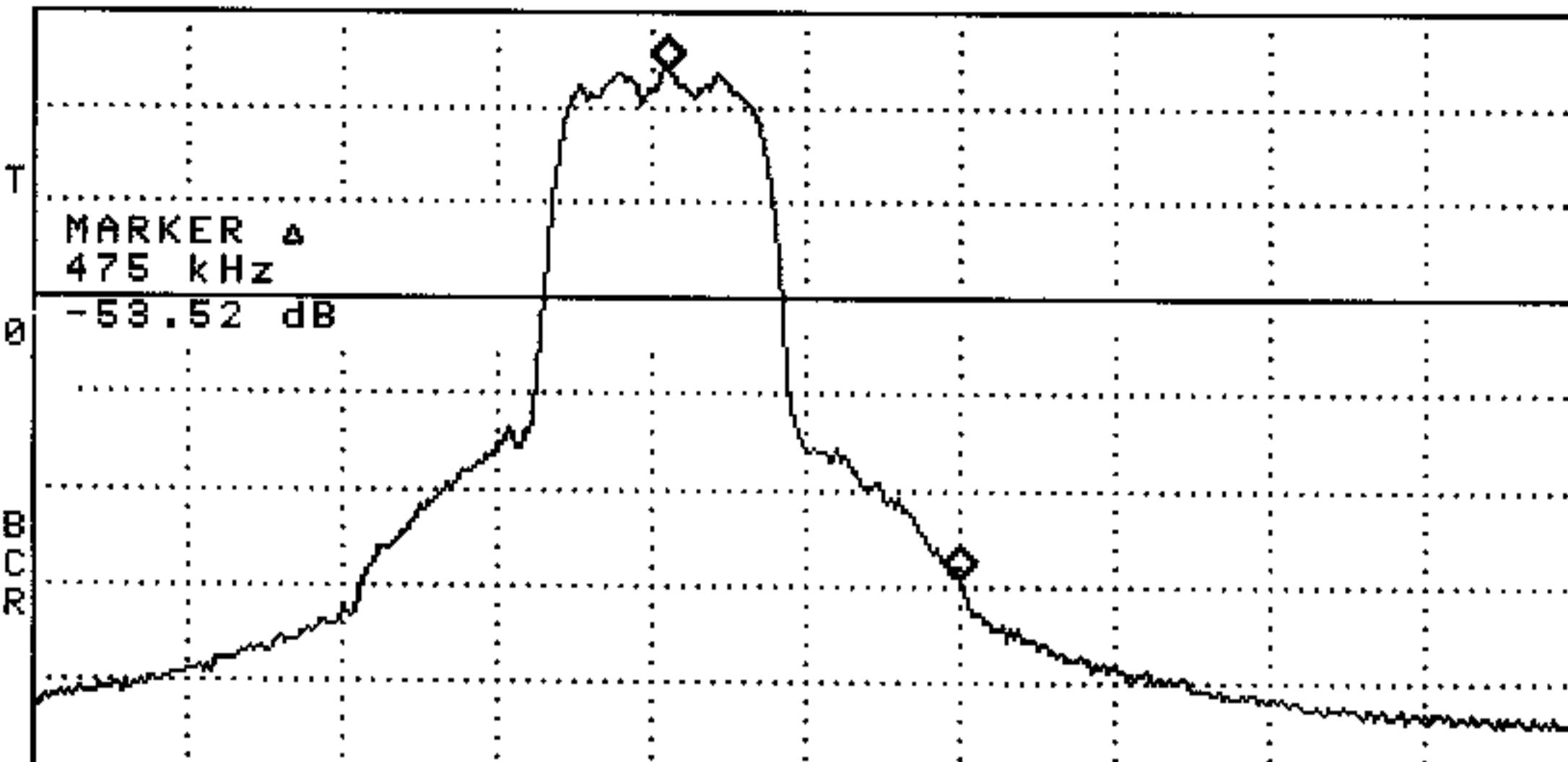
More  
1 of 3

CENTER 2.64400 GHz #RES BW 10 kHz SPAN 15.00 MHz SWP 450 msec

14:32:10 NOV 21, 2001  
TSI OUPP1804-2 16QAM 320K  
REF 9.1 dBm AT 10 dB

MKRa 475 kHz  
-53.52 dB

SMPL  
LOG  
10  
dB/  
OFFST  
12.1  
dB  
475 kHz  
DL  
-21.0  
dBm  
AVG  
100  
VA SB  
SC FC  
CORR



MARKER  
NORMAL  
MARKER  
AMPTD  
SELECT  
1 2 3 4  
MARKER 1  
ON OFF  
More  
1 of 3

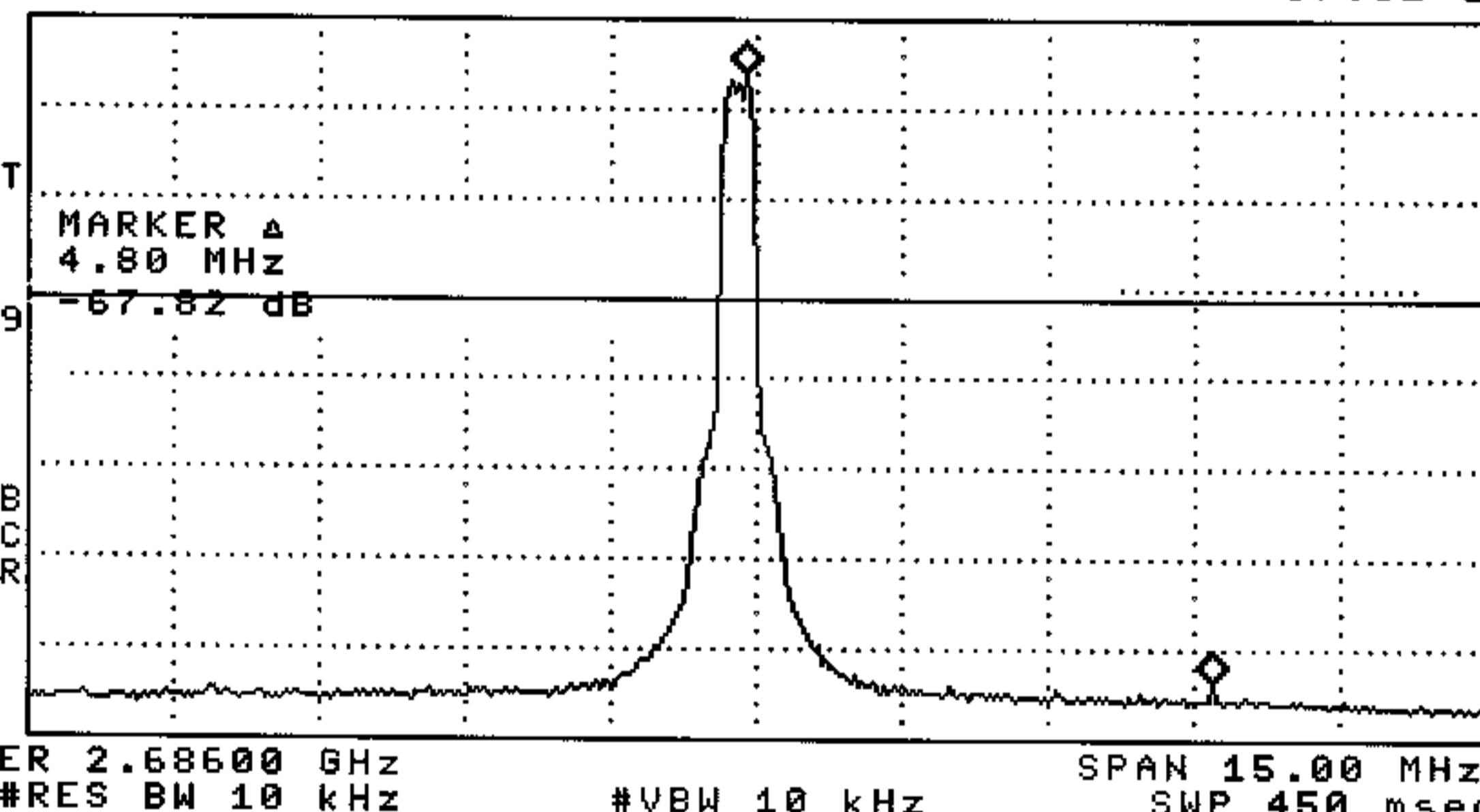
40

HI 320 KBPS

14:34:06 NOV 21, 2001  
TSI OUPP1804-2 16QAM 320K  
REF 9.1 dBm AT 10 dB

MKRa 4.80 MHz  
-67.82 dB

SMPL  
LOG  
10  
dB/  
OFFST  
12.1  
dB  
4.80 MHz  
DL  
-21.9  
dBm  
AVG  
100  
VA SB  
SC FC  
CORR

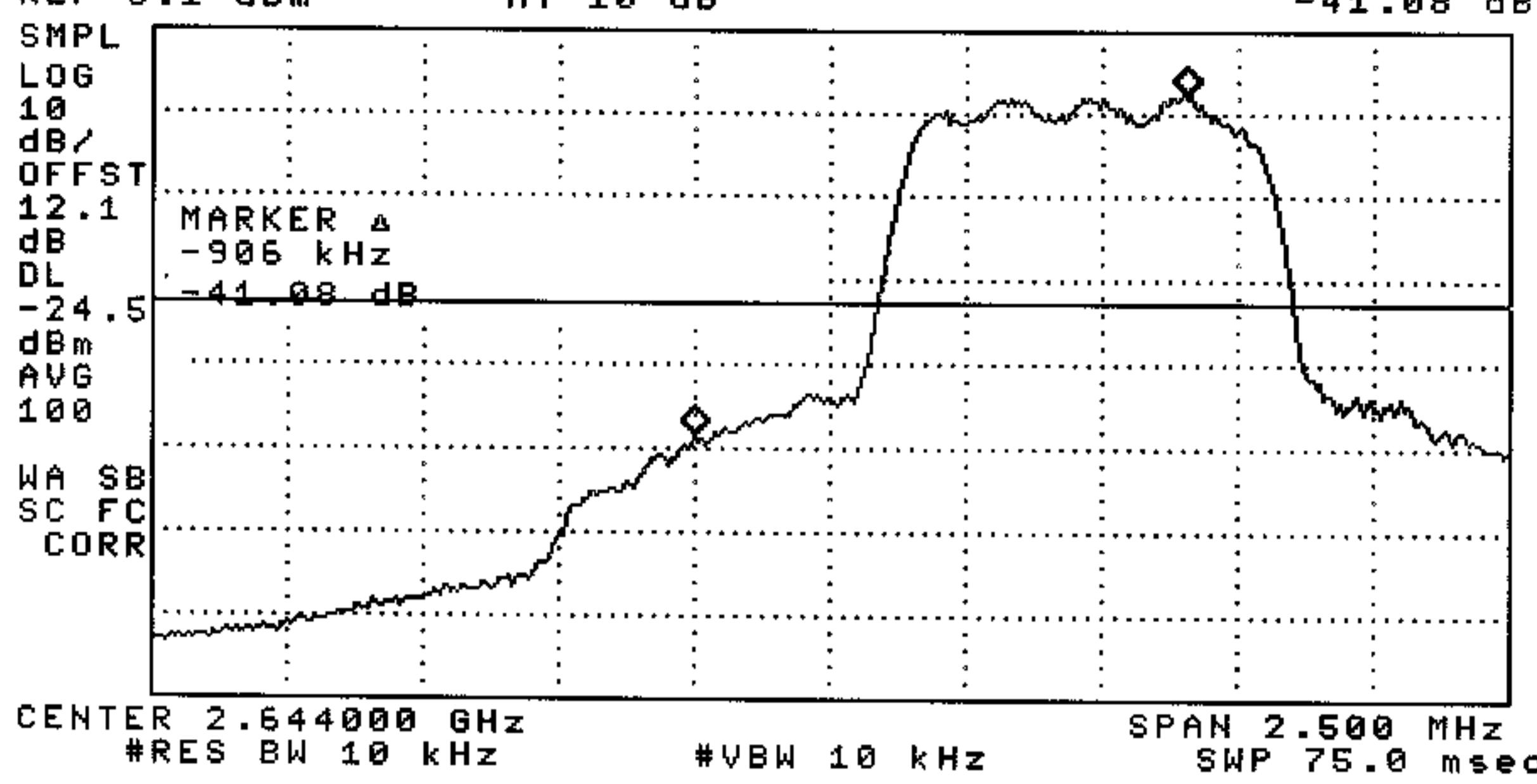


MARKER  
NORMAL  
MARKER  
AMPTD  
SELECT  
1 2 3 4  
MARKER 1  
ON OFF  
More  
1 of 3

41

14:01:38 NOV 21, 2001  
TSI OUPP1804-2 16QAM 640K  
REF 8.1 dBm AT 10 dB

MKRA -906 kHz  
-41.08 dB



MARKER NORMAL

MARKER A

MARKER AMPTD

SELECT 1 2 3 4

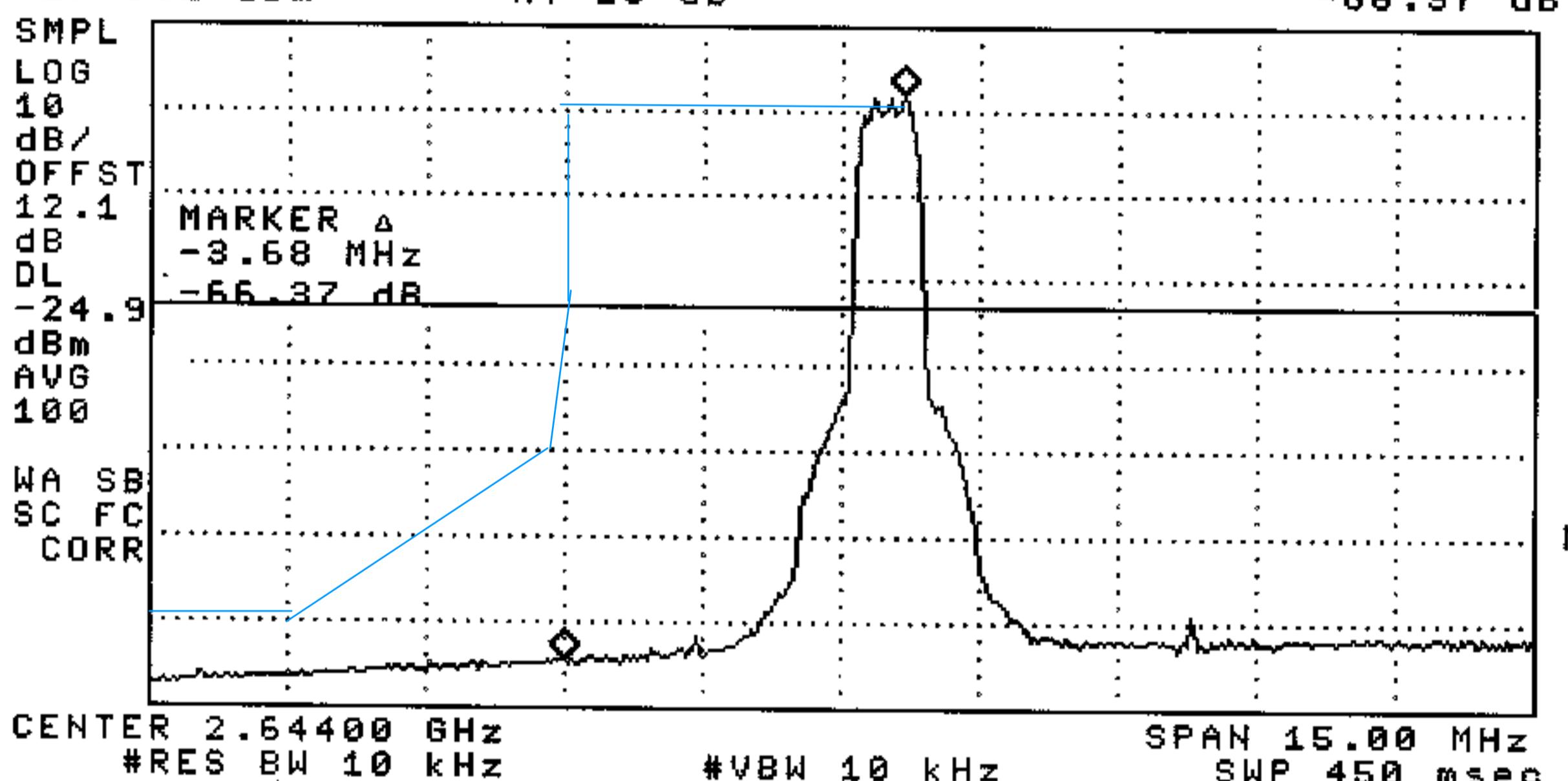
MARKER 1 ON OFF

More 1 of 3

42

14:03:07 NOV 21, 2001  
TSI OUPP1804-2 16QAM 640K  
REF 8.1 dBm AT 10 dB

MKRA -3.68 MHz  
-66.37 dB



MARKER NORMAL

MARKER A

MARKER AMPTD

SELECT 1 2 3 4

MARKER 1 ON OFF

More 1 of 3

43

14:28:33 NOV 21, 2001  
TSI OUPP1804-2 16QAM 640K  
REF 9.1 dBm AT 10 dB

MKRA 594 kHz  
-46.02 dB

SMPL  
LOG  
10  
dB/  
OFFST  
12.1  
dB  
OL  
-25.2  
dBm  
AVG  
100  
VA SB  
SC FC  
CORR

CENTER 2.686000 GHz #RES BW 10 kHz #VBW 10 kHz SPAN 2.500 MHz SWP 75.0 msec

MARKER  
NORMAL

MARKER  
a

MARKER  
AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

More  
1 of 3

44

14:30:29 NOV 21, 2001  
TSI OUPP1804-2 16QAM 640K  
REF 9.1 dBm AT 10 dB

MKRA 3.19 MHz  
-65.14 dB

SMPL  
LOG  
10  
dB/  
OFFST  
12.1  
dB  
OL  
-26.3  
dBm  
AVG  
100  
VA SB  
SC FC  
CORR

CENTER 2.68600 GHz #RES BW 10 kHz #VBW 10 kHz SPAN 15.00 MHz SWP 450 msec

MARKER  
NORMAL

MARKER  
a

MARKER  
AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

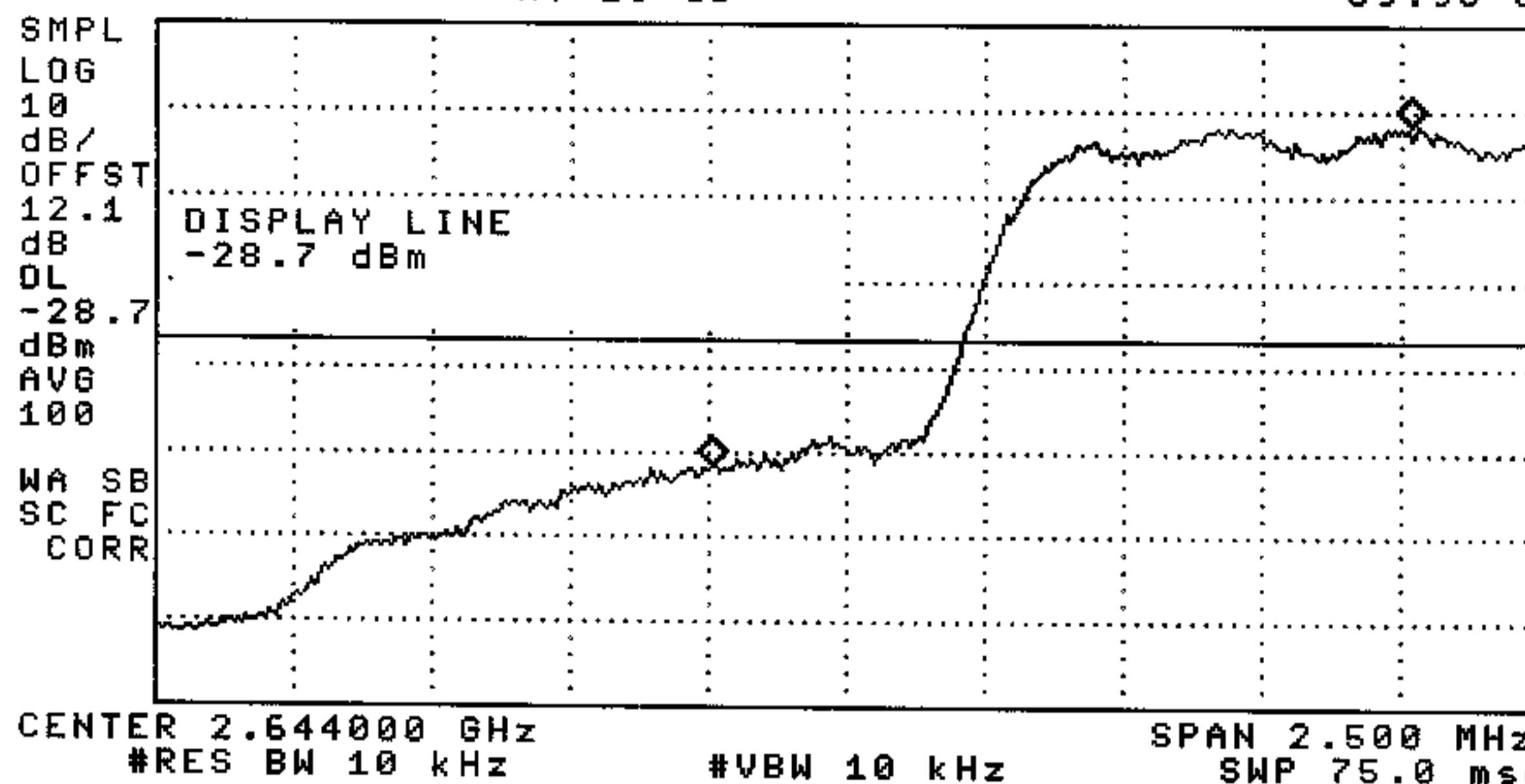
More  
1 of 3

45

14:08:13 NOV 21, 2001  
TSI OUPP1804-2 16QAM 1280K  
REF 8.1 dBm AT 10 dB

MKRA -1.263 MHz  
-39.96 dB

HOLD



DSP LINE  
ON OFF

Change Title

Limit Lines

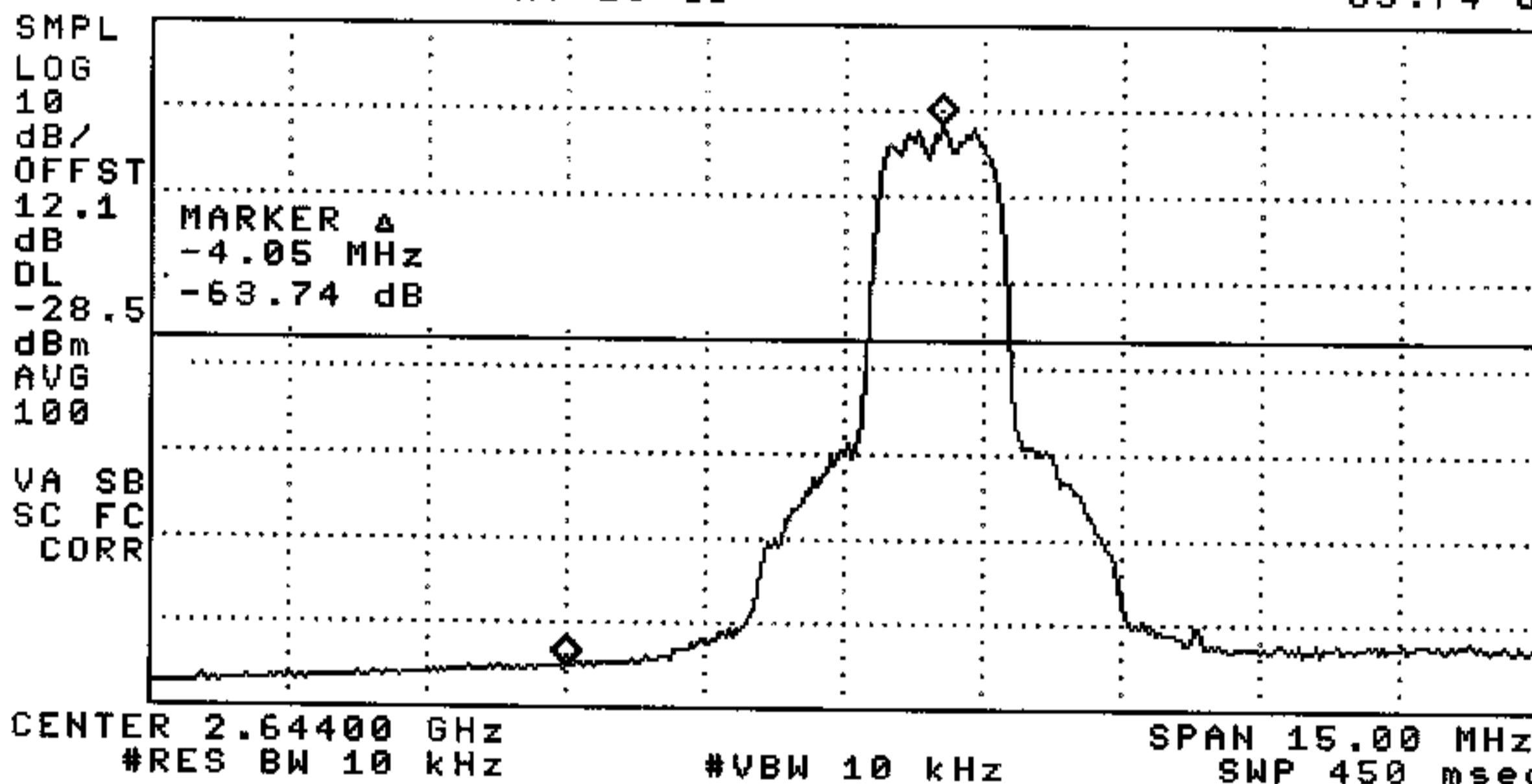
ANALOG+  
ON OFF

More  
1 of 2

46

14:10:02 NOV 21, 2001  
TSI OUPP1804-2 16QAM 1280K  
REF 8.1 dBm AT 10 dB

MKRA -4.05 MHz  
-63.74 dB



MARKER NORMAL

MARKER A

MARKER AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

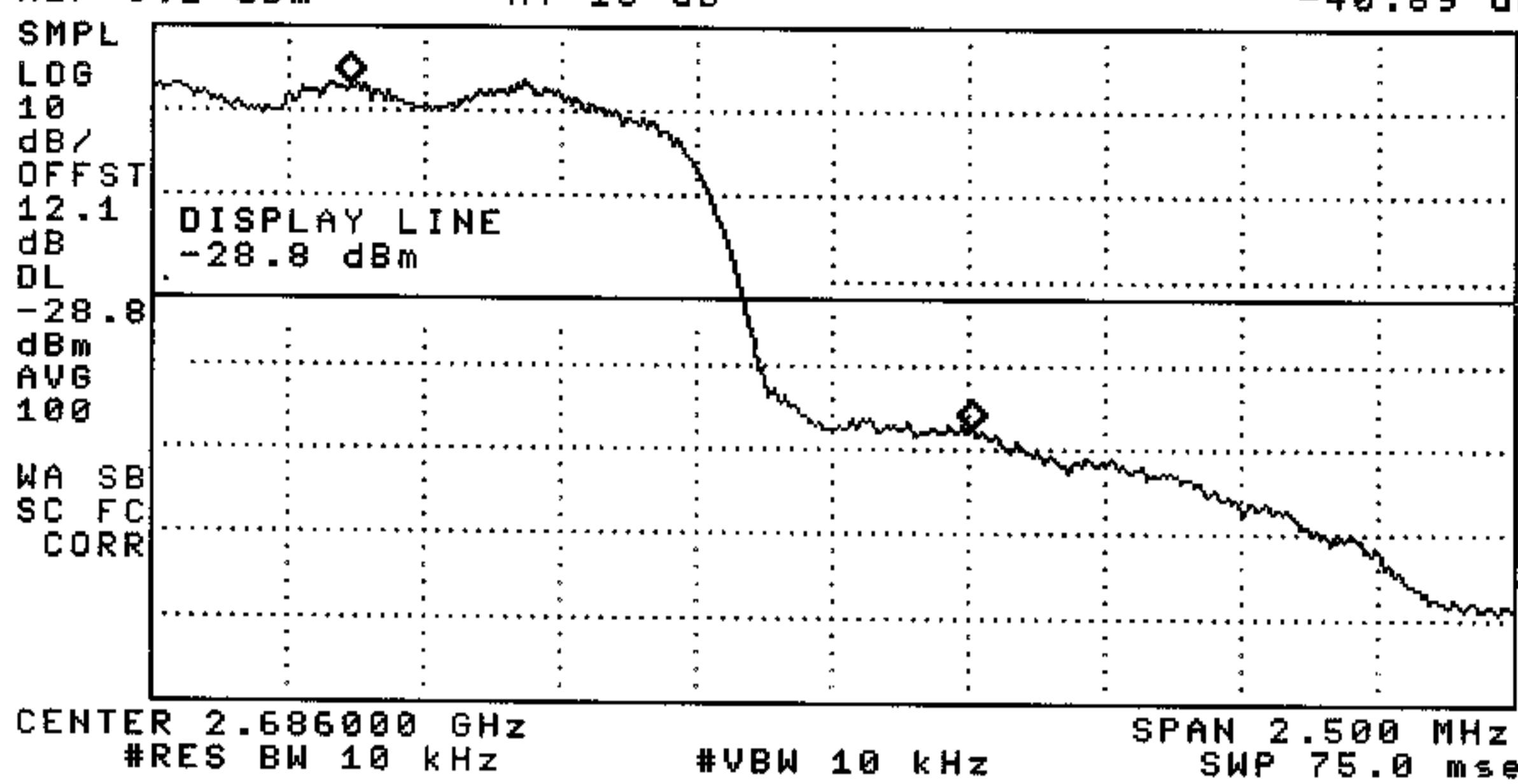
More  
1 of 3

47

14:24:17 NOV 21, 2001  
TSI OUPP1804-2 16QAM 1280K  
REF 3.1 dBm AT 10 dB

MKRA 1.144 MHz  
-40.89 dB

HOLD



DSP LINE  
ON OFF

Change  
Title

Limit  
Lines

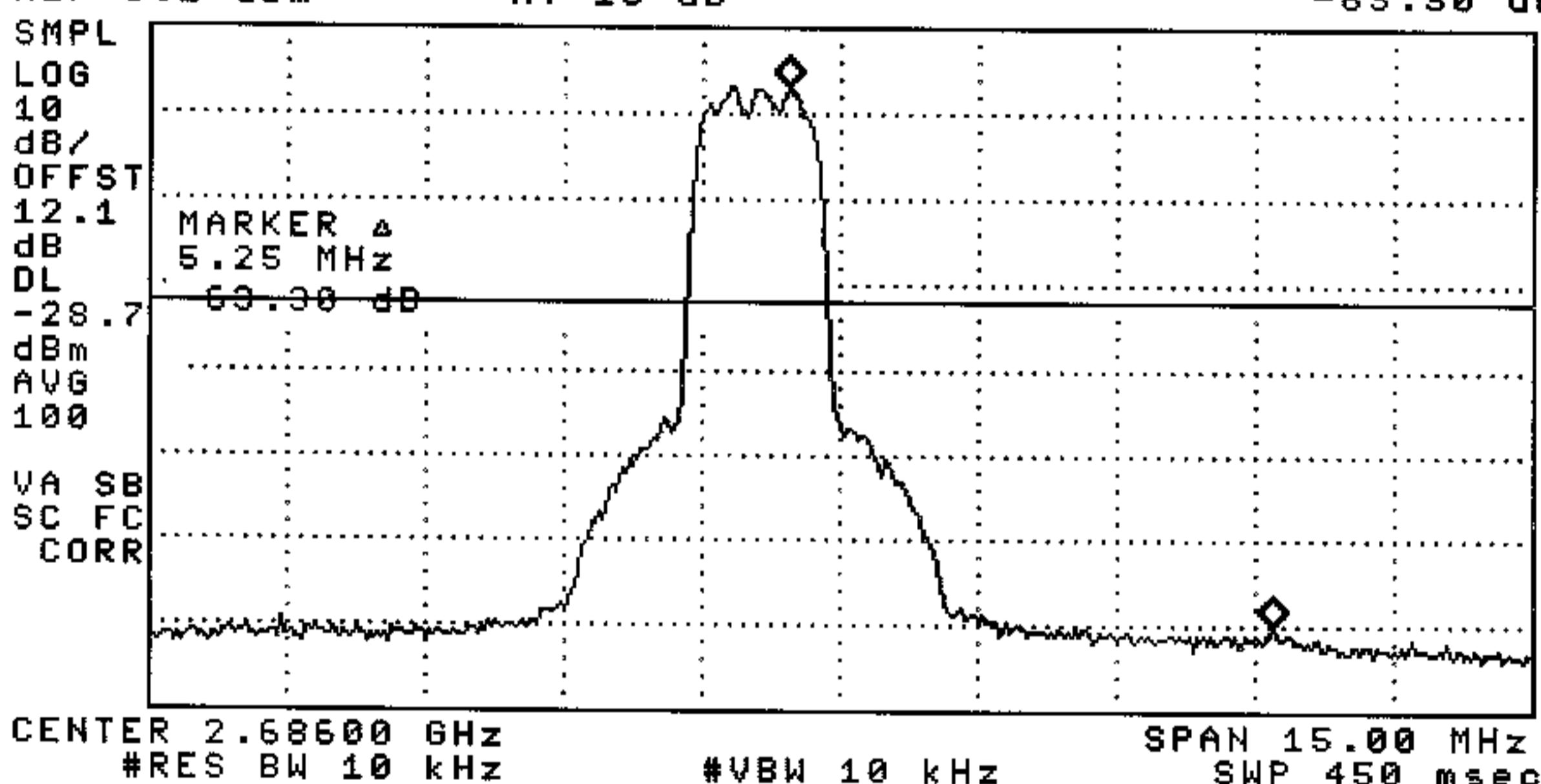
ANALOG+  
ON OFF

More  
1 of 2

48

14:25:47 NOV 21, 2001  
TSI OUPP1804-2 16QAM 1280K  
REF 3.1 dBm AT 10 dB

MKRA 5.25 MHz  
-63.30 dB



MARKER  
NORMAL

MARKER  
▲

MARKER  
AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

More  
1 of 3

49

14:13:06 NOV 21, 2001  
TSI OUPP1804-2 16QAM 2560K  
REF 8.1 dBm AT 10 dB

MKRA -1.306 MHz  
-44.79 dB

SMPL

LOG

10

dB/

OFFST

12.1

dB

DL

-36.0

dBm

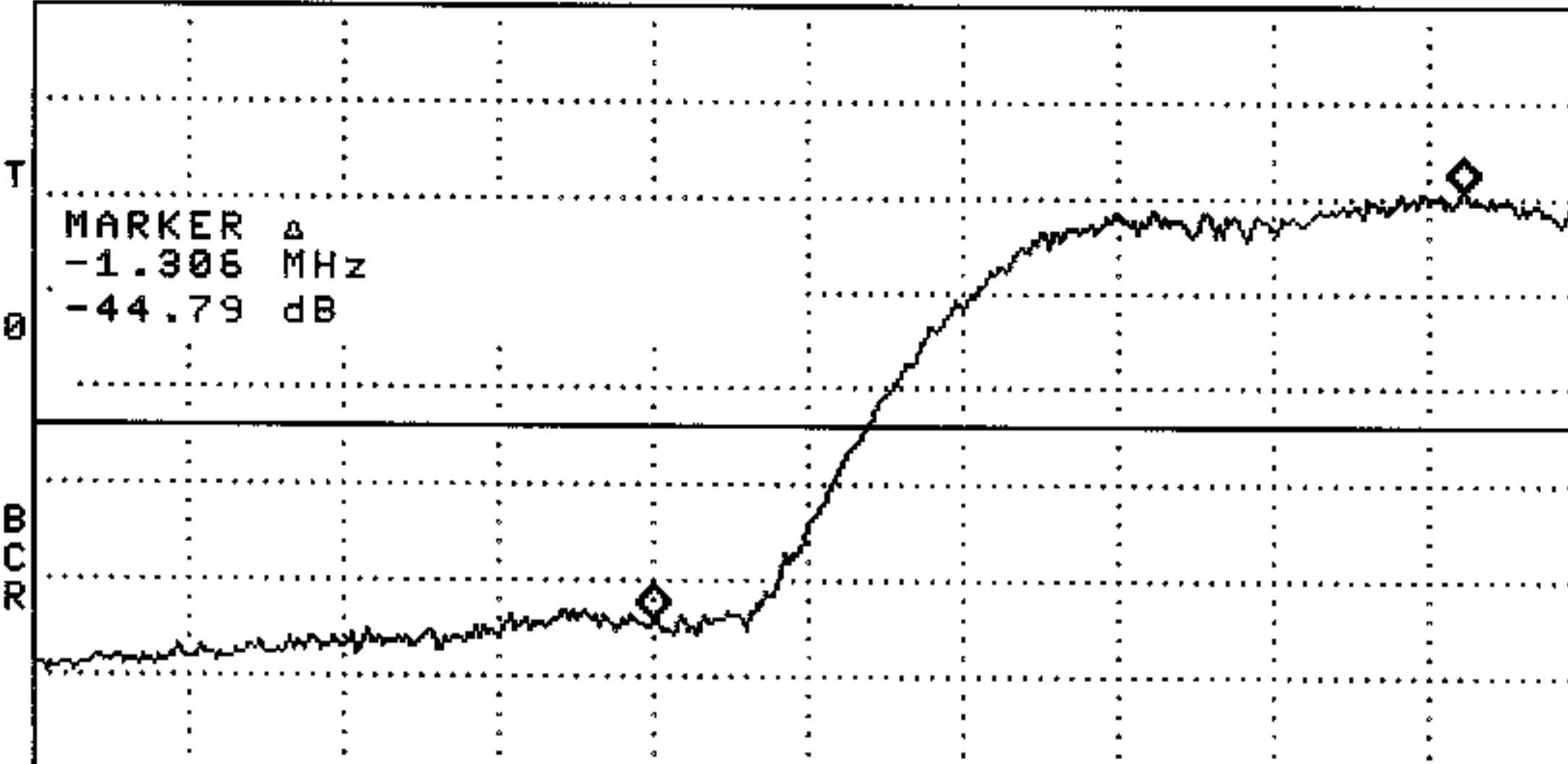
AVG

100

VA SB

SC FC

CORR



MARKER  
NORMAL

MARKER  
△

MARKER  
AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

More  
1 of 3

(50)

14:15:34 NOV 21, 2001  
TSI OUPP1804-2 16QAM 2560K  
REF -1.9 dBm AT 10 dB

MKRA -5.29 MHz  
-61.79 dB

SMPL

LOG

10

dB/

OFFST

12.1

dB

DL

-35.8

dBm

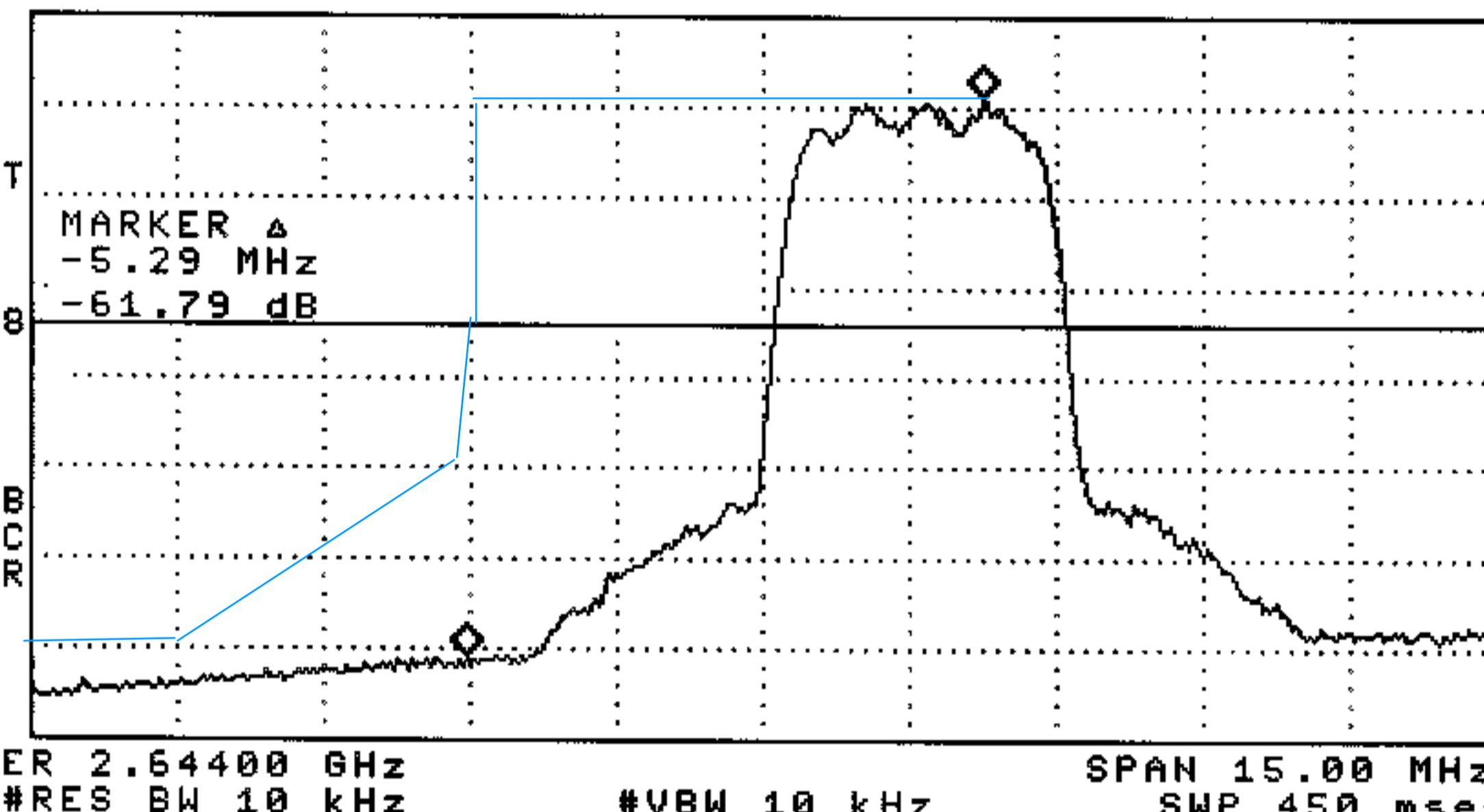
AVG

100

VA SB

SC FC

CORR



MARKER  
NORMAL

MARKER  
△

MARKER  
AMPTD

SELECT  
1 2 3 4

MARKER 1  
ON OFF

More  
1 of 3

(51)

