

TX 12, RX 8
DATA

CONDUCTED SPURIOUS
710 MHz TRANSMIT (LOW) Tx 12, Rx 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

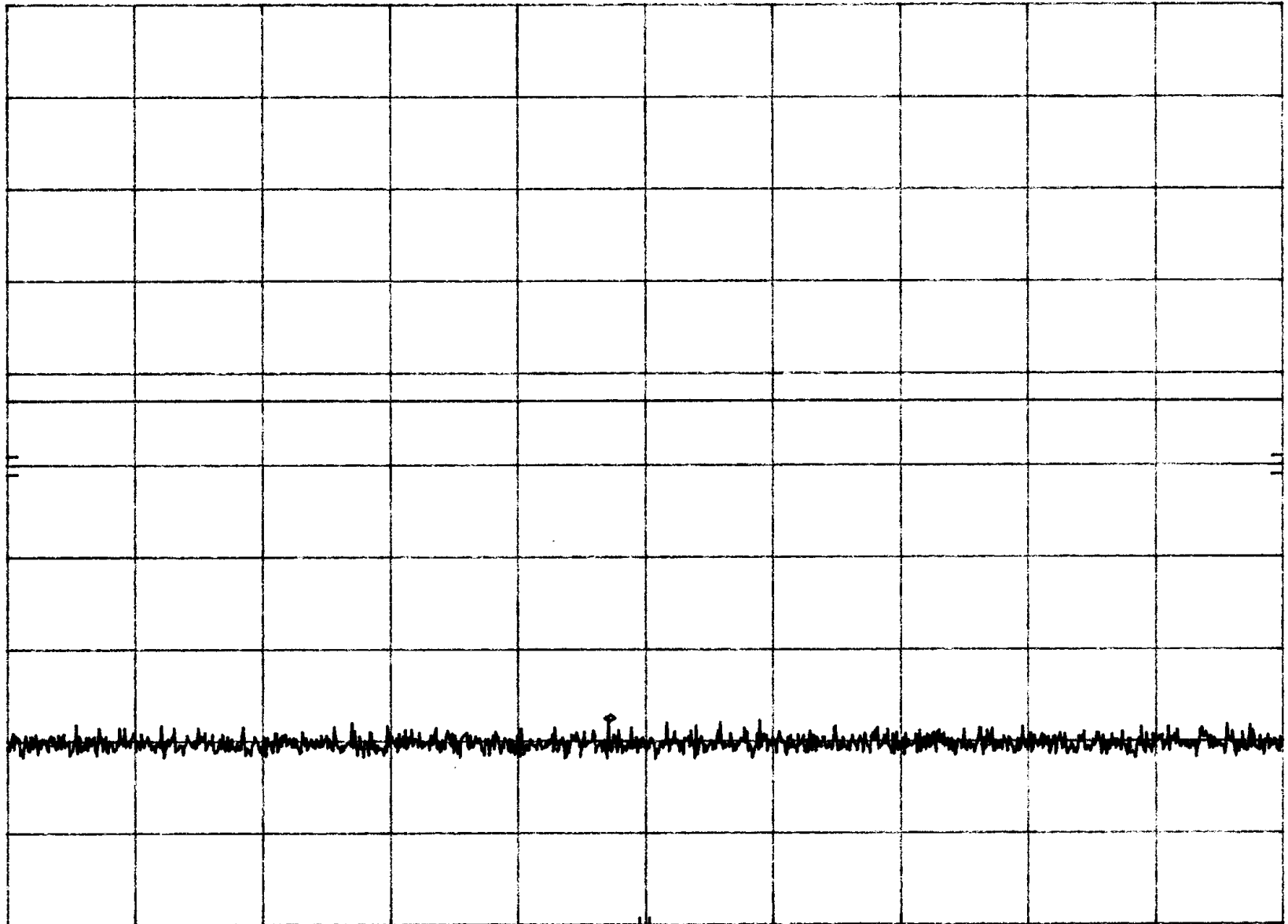
MKR 15.22 MHz
-47.50 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 KHz

VBW 100 KHz

STOP 30.0 MHz
SWP 20.0 msec

CONDUCTED SPURRIOS
710 MHz TRANSMIT (LOW) Tx 12, Rx 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

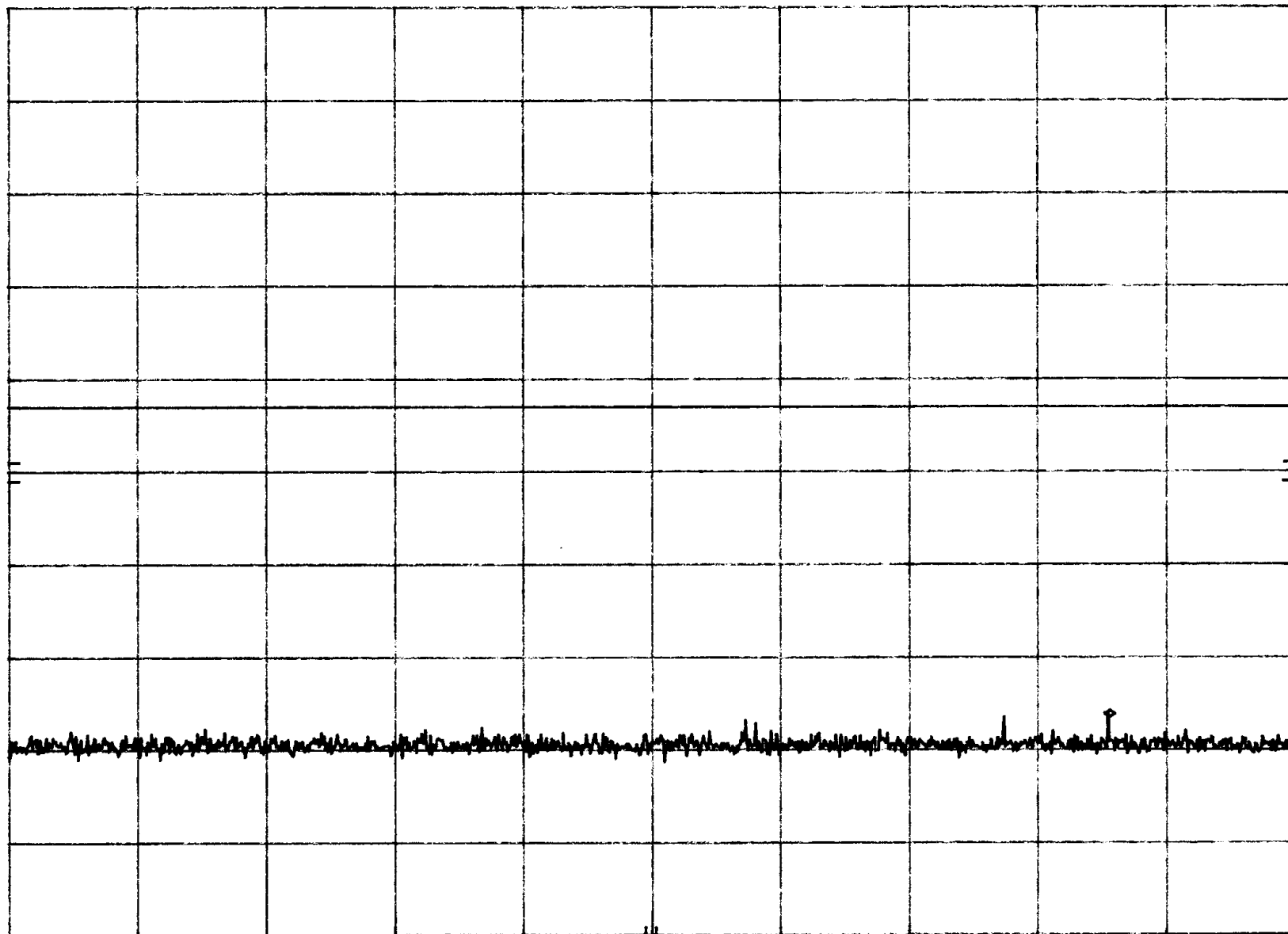
MKR 517.9 MHz
-46.10 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 KHz

VBW 100 KHz

STOP 600 MHz
SWP 171 msec

CONDUCTED MEASUREMENTS

710 MHz TRANSMITTER (LOW) T_{X12} , R_{X2}

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 709.6 MHz

17.30 dBm

hp

REF

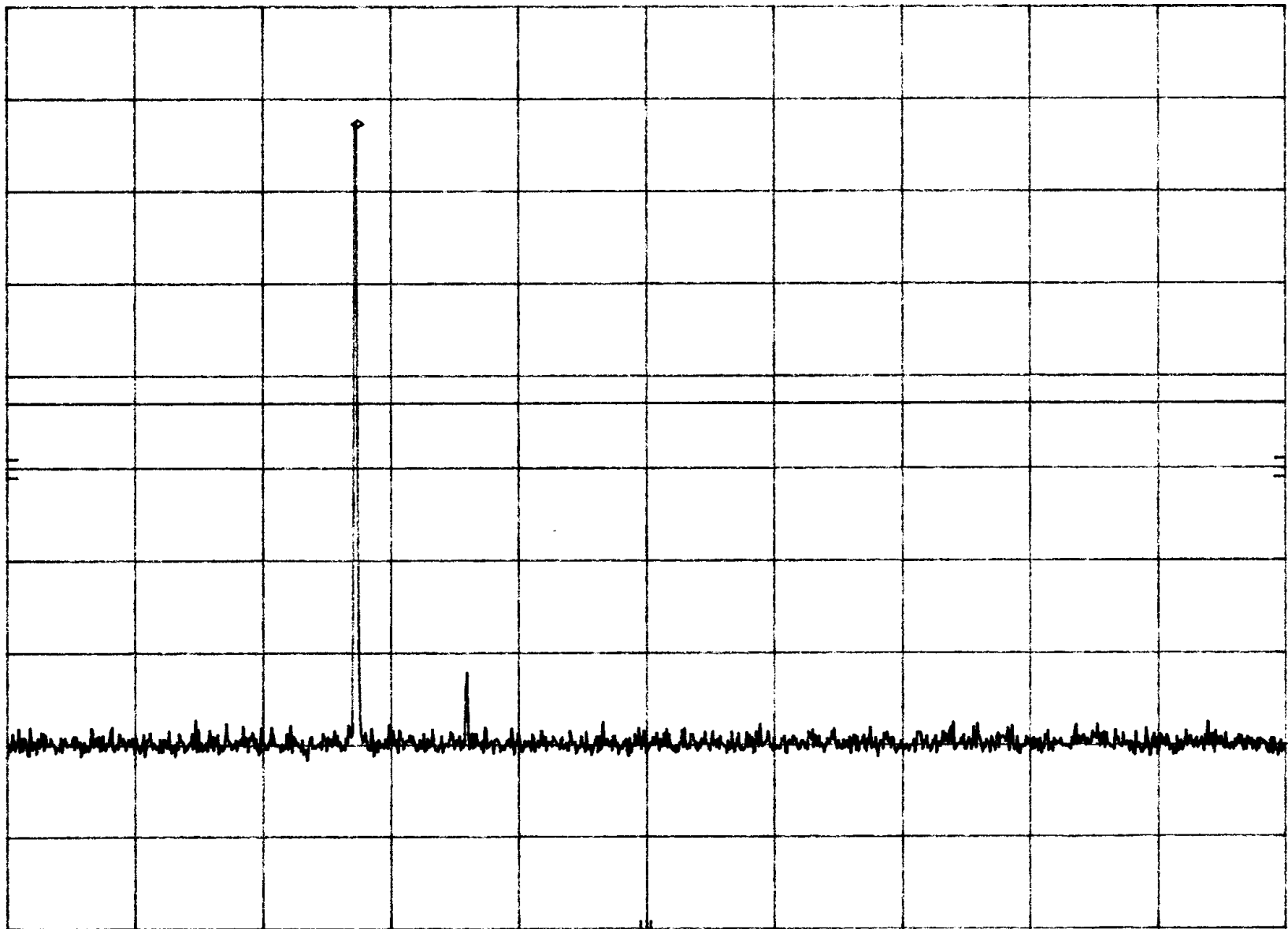
30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 600 MHz

RES BW 100 KHz

VBW 100 KHz

STOP 1.000 GHz

SWP 120 msec

44

CONDUCTED SPURIOUS

710 MHz TRANSMIT (LOW) TX 12, RX 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 1.017 GHz

-42.20 dBm

hp

REF

30.0 dBm

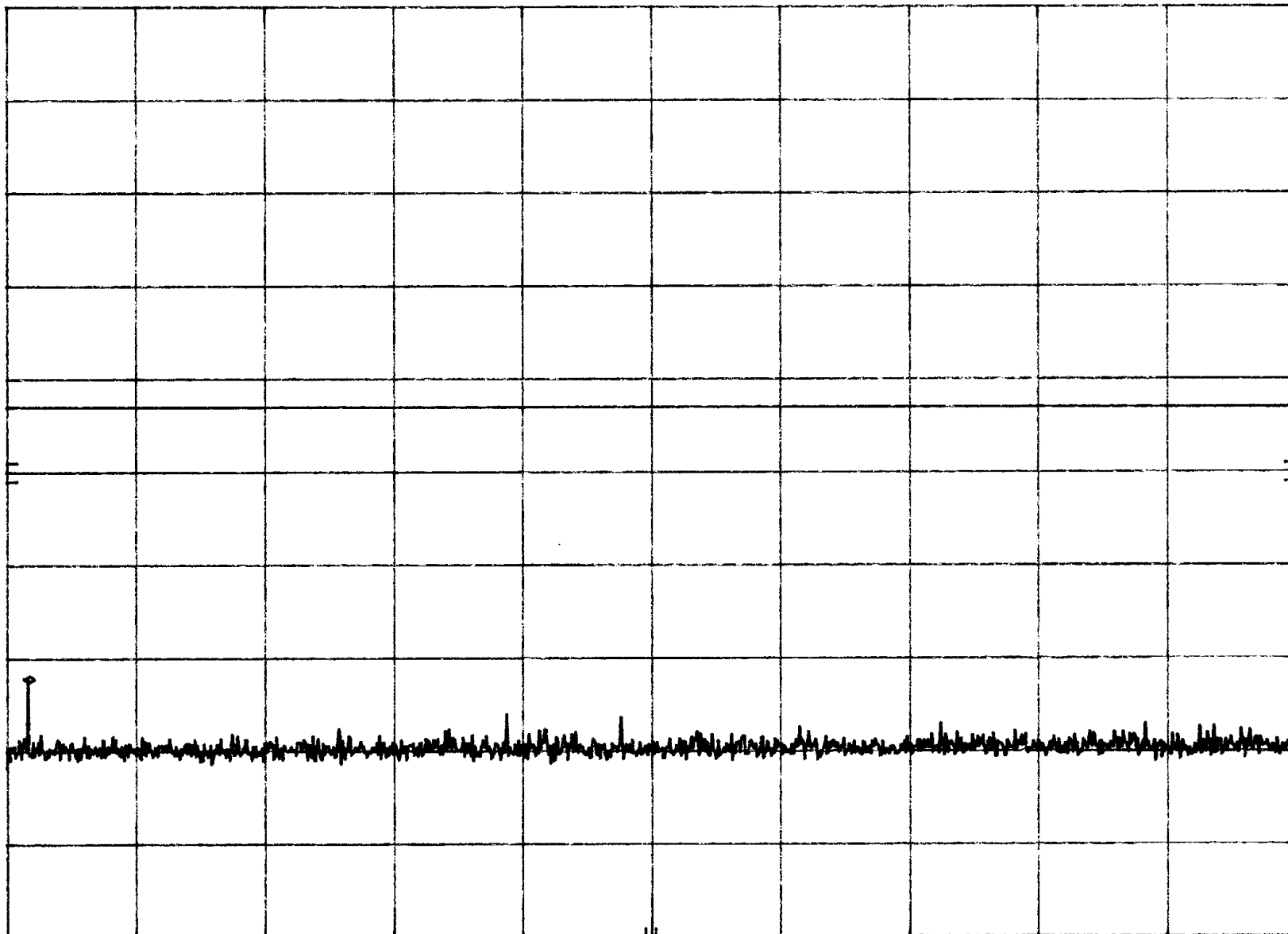
ATTEN

40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 kHz

VBW 100 kHz

STOP 2.00 GHz

SWP 300 msec

CONDUCTED SPURIOUS

10 MHz TRANSMIT (LOW) Tx12, Rx3

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 2.132 GHz

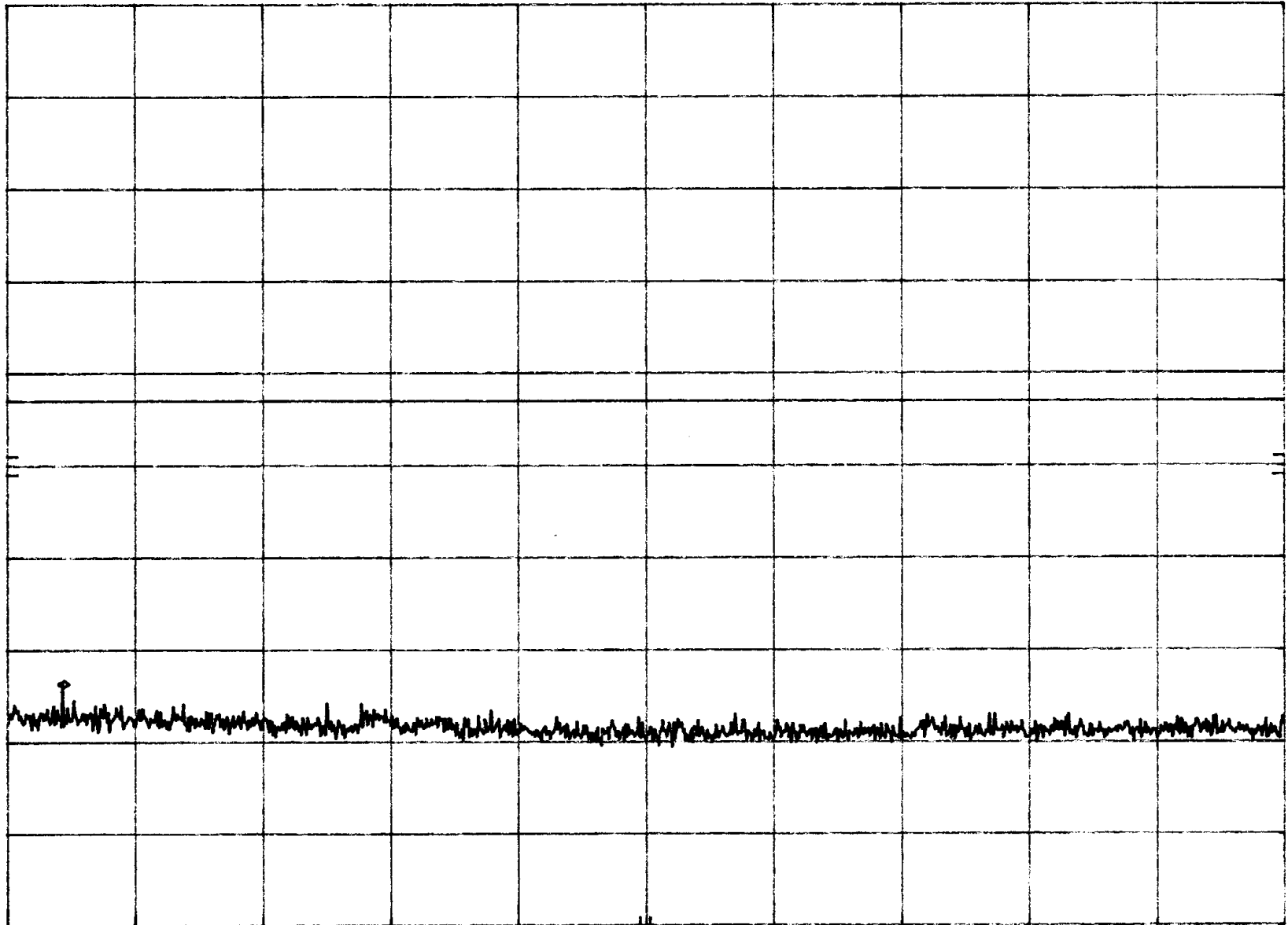
-43.70 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 kHz

VBW 100 kHz

STOP 5.00 GHz

SWP 900 msec

CONDUCTED SPURIOUS

710 MHz TRANSMITTER (LOW) Tx 12, Rx 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 8.390 GHz

-41.80 dBm

hp

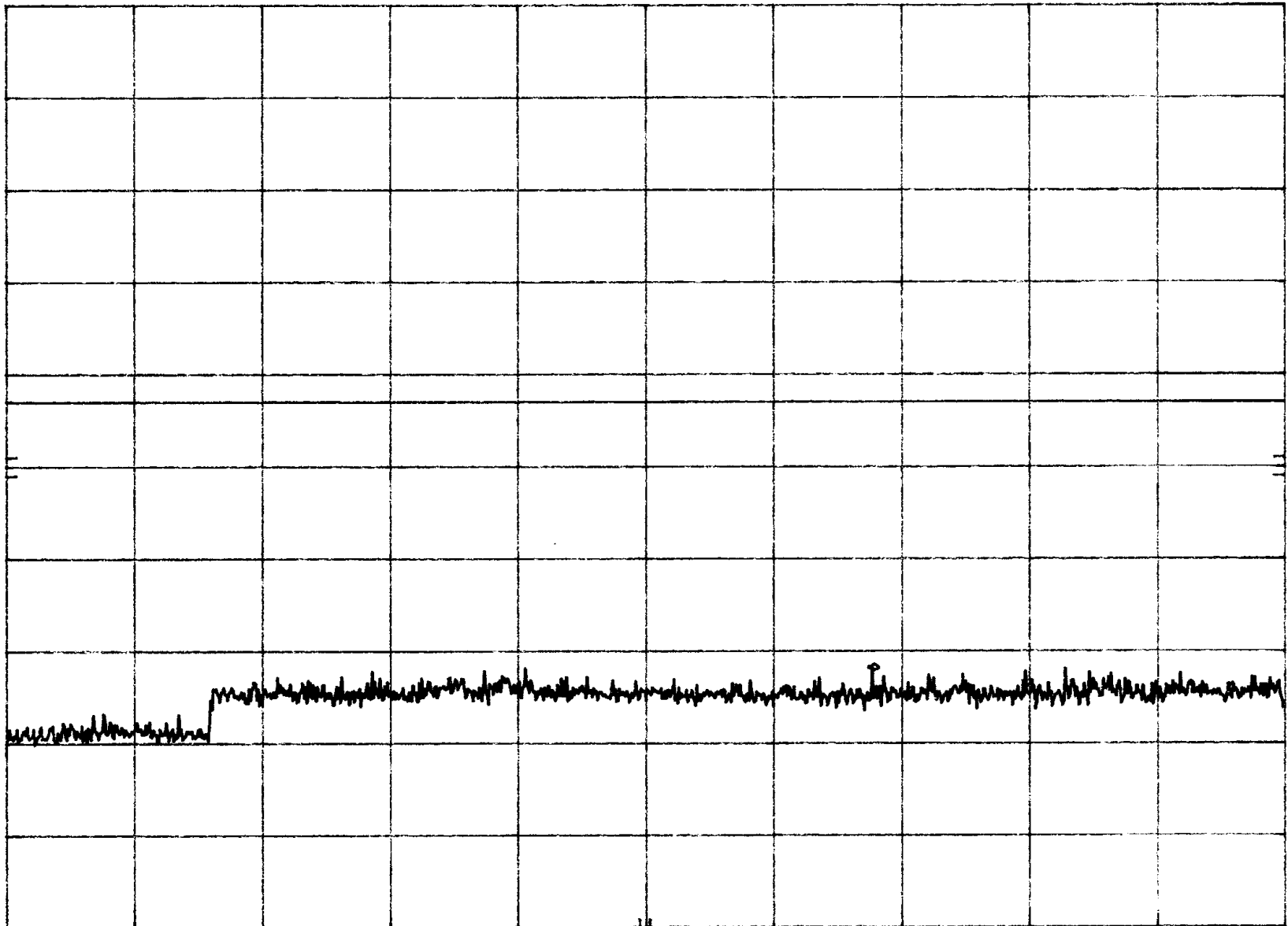
REF 30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 kHz

VBW 100 kHz

STOP 10.00 GHz

SWP 1.50 sec

47

CONDUCTED SPURIOUS

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

72.5 MHz TRANSMIT (MIC) Tx 12, Rx 8

MKR 18.83 MHz

-47.20 dBm

hp

REF

30.0 dBm

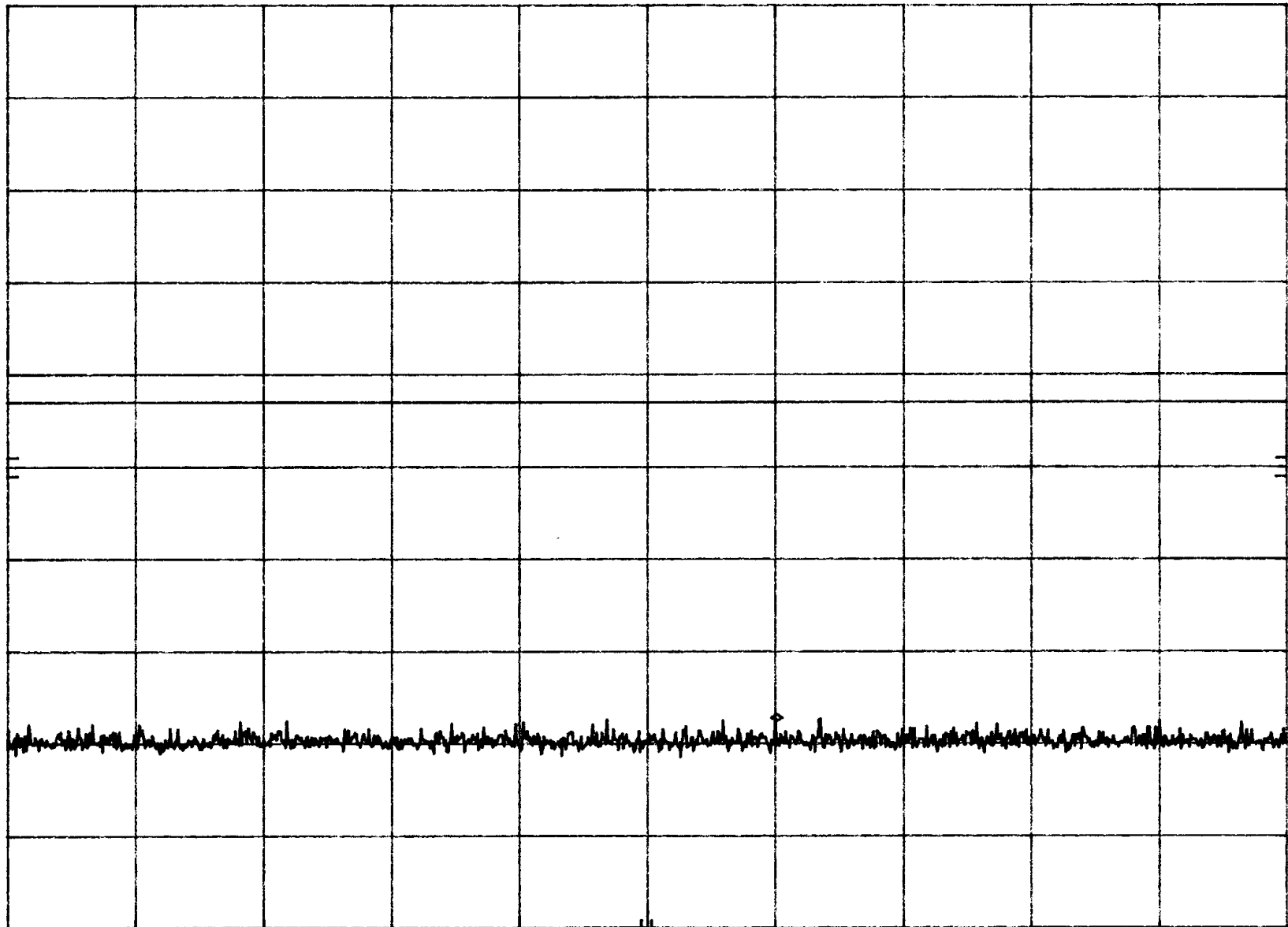
ATTEN

40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 kHz

VBW 100 kHz

STOP 30.0 MHz

SWP 20.0 msec

48

CONDUCTED SPURIOUS

Part 2, Para. 2.1051 and Part 74, Para. 74.861(c)(6)

725 MHz TRANSMIT (MID) TX 12, RX 8

MKR 560.0 MHz

-47.30 dBm

hp

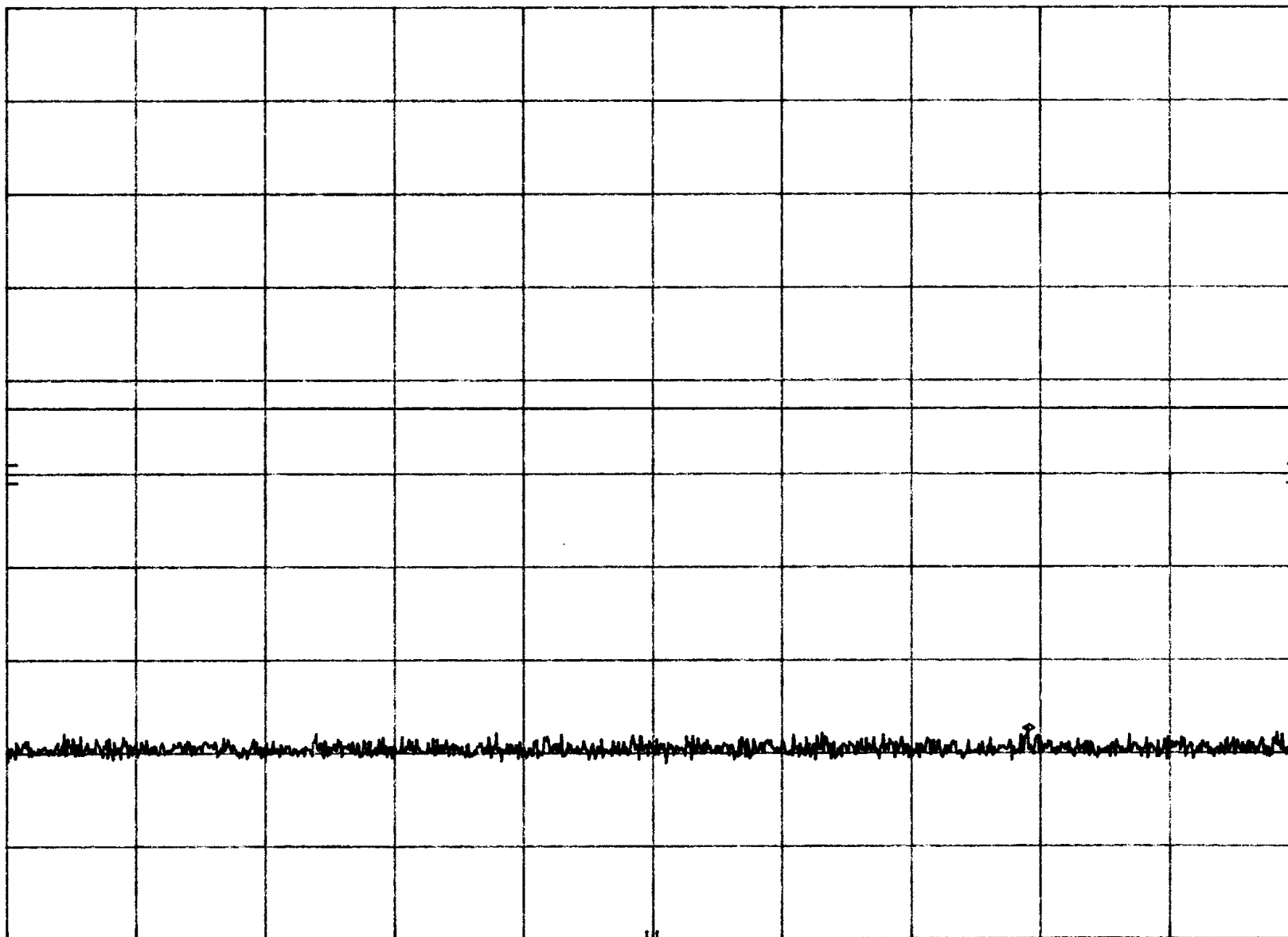
REF 30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 kHz

VBW 100 kHz

STOP 700 MHz

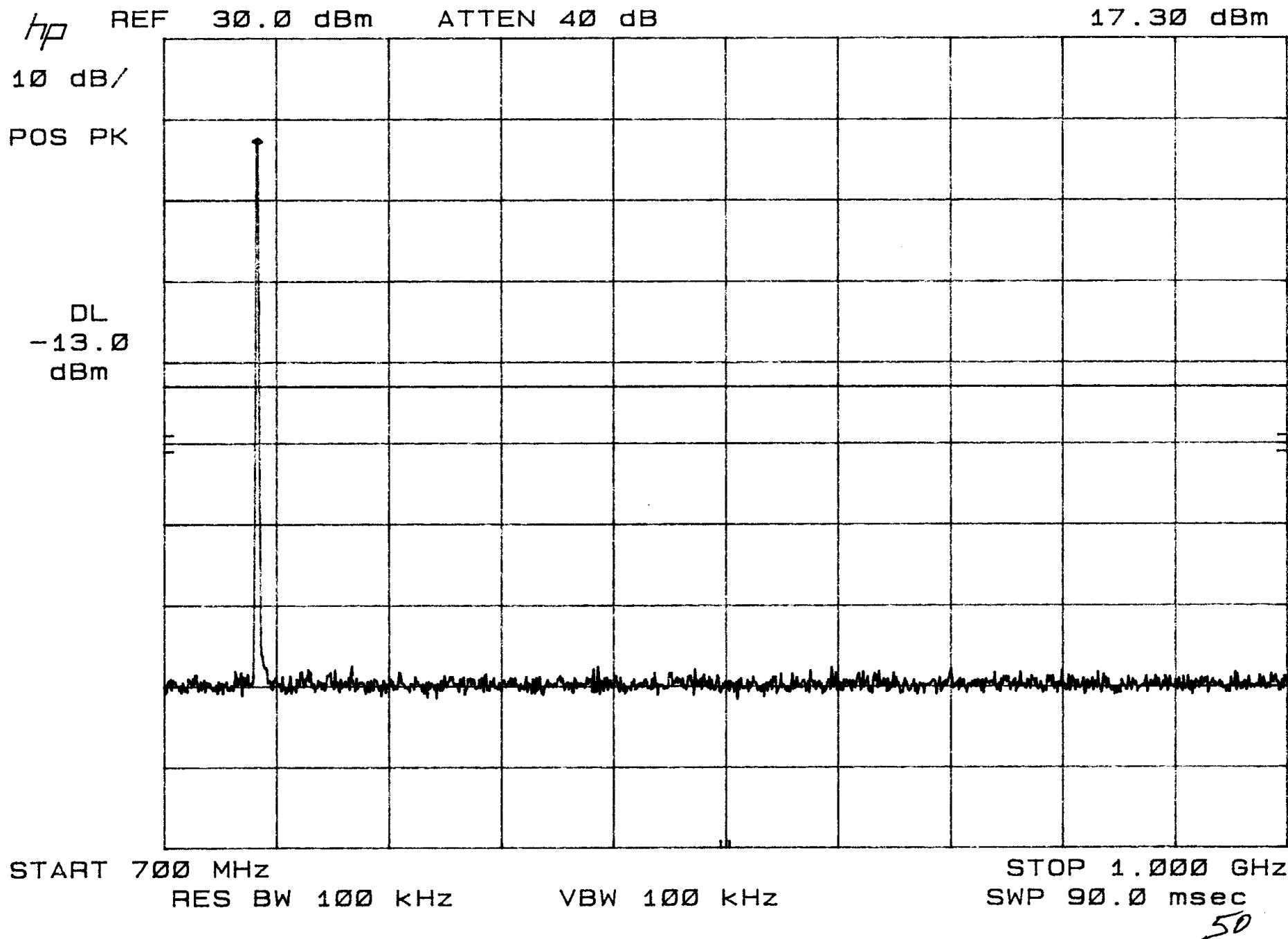
SWP 201 msec

49

CONDENSED SPURIOUS
725MHz TRANSMITTER (MID) Tx 12, Rx 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 724.9 MHz
17.30 dBm



CONDUCTED SPURIOUS

725 MHz TRANSMIT (MIG) Tx 12, Rx8 Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

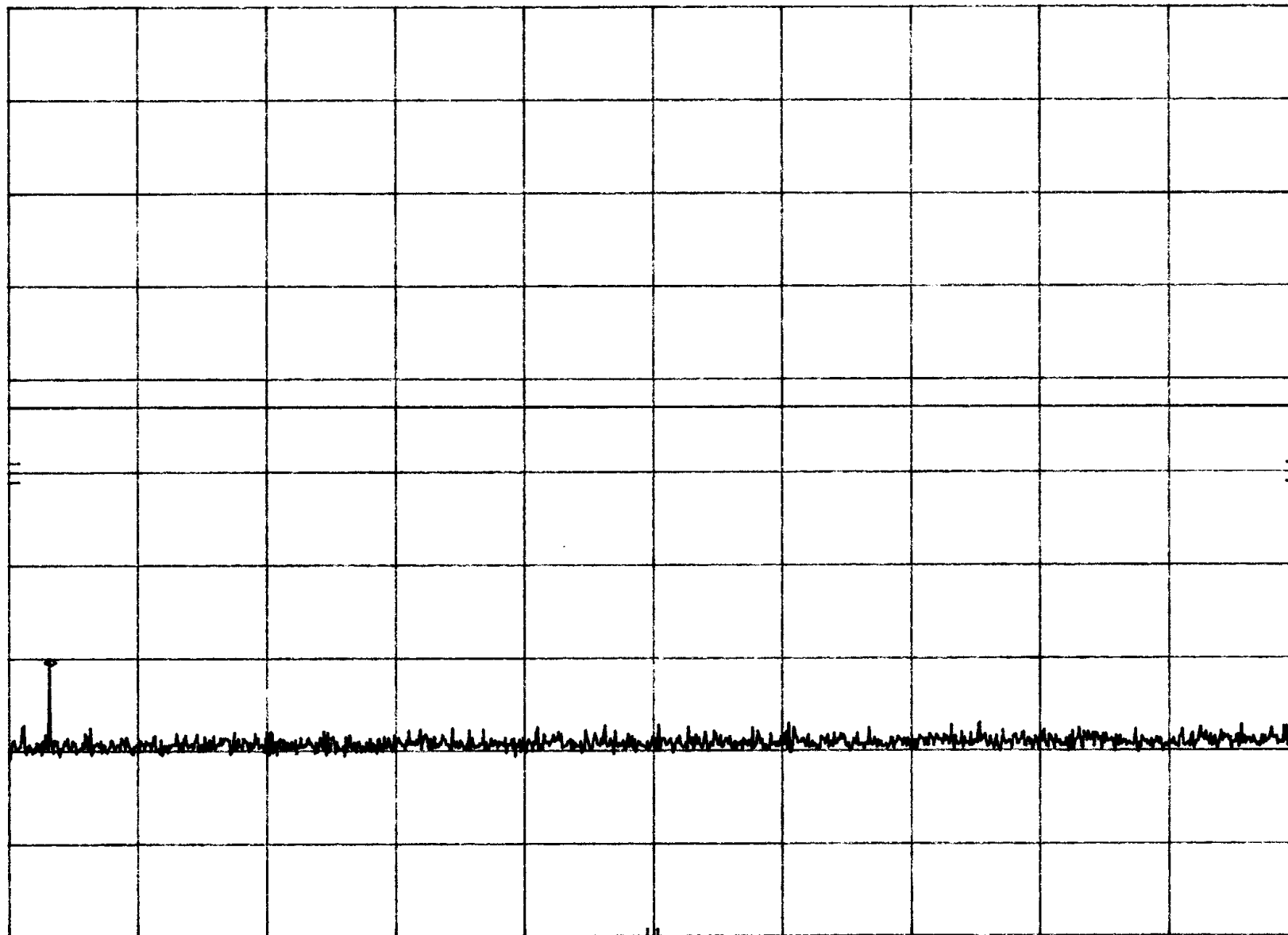
MKR 1.032 GHz
-40.40 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 KHz

VBW 100 KHz

STOP 2.00 GHz
SWP 300 msec

51

CONDUCTED SPURIOUS

705MHz TRANSMIT (MID) TX 12, RX 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 2.177 GHz
-34.80 dBm

hp

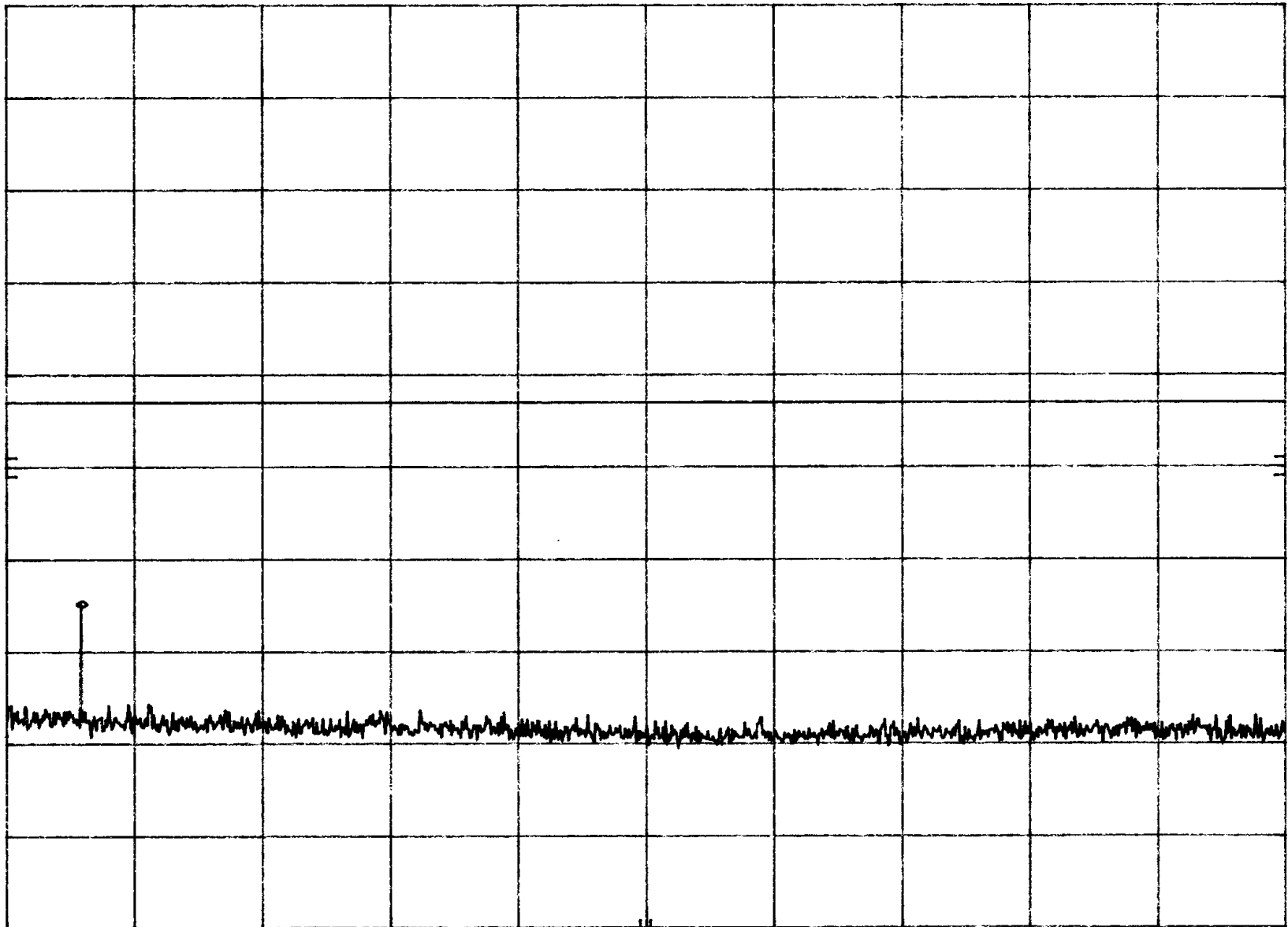
REF 30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 kHz

VBW 100 kHz

STOP 5.00 GHz
SWP 900 msec

52

CONDUCTED SPURIOUS
710 MHz TRANSMIT (MID) Tx 12, Rx 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

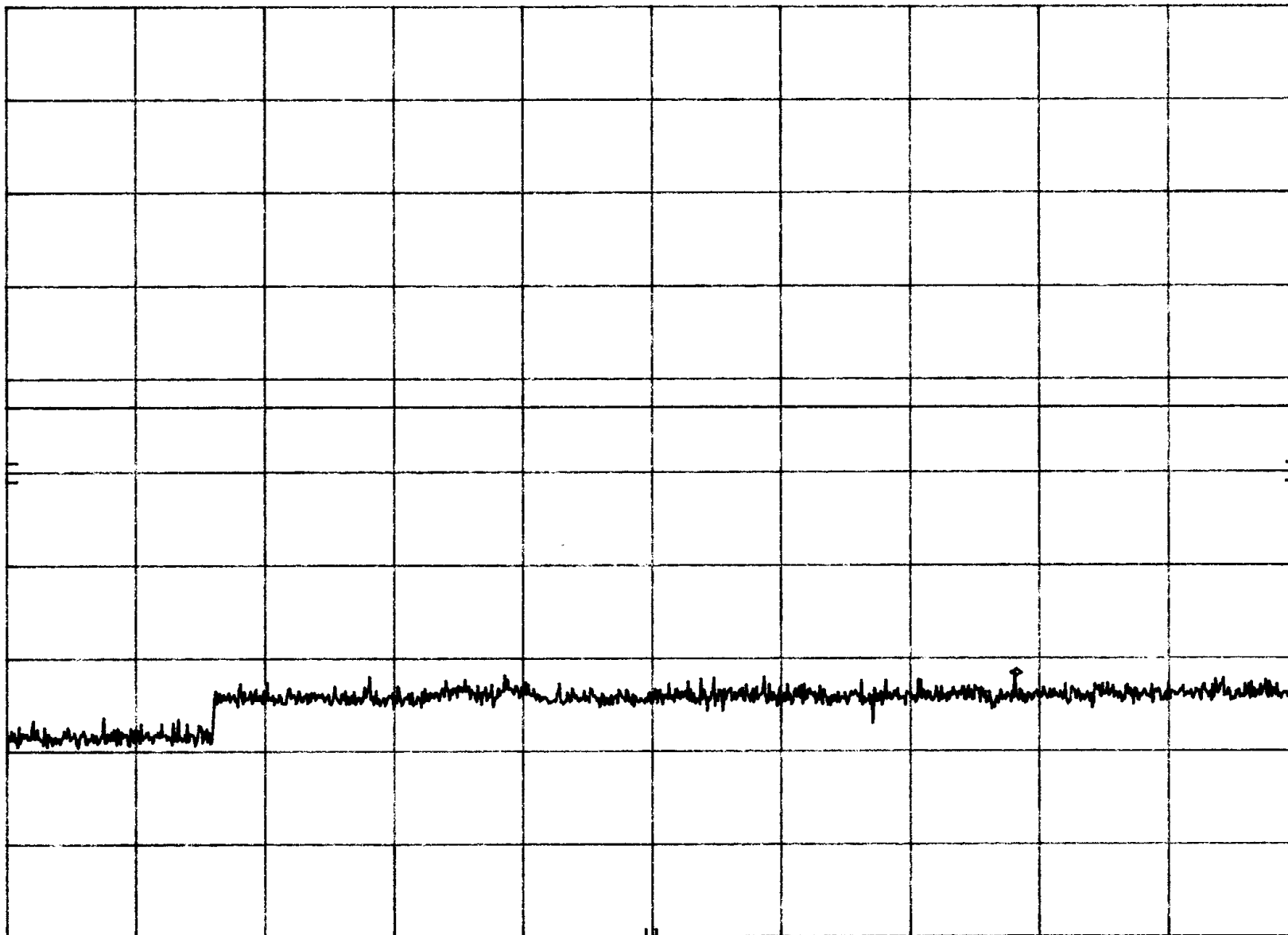
MKR 8.910 GHz
-41.60 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 kHz

VBW 100 kHz

STOP 10.00 GHz
SWP 1.50 sec

53

CONNECTED SPURIOUS

740MHz TRANSMIT (HGA) TX 12, RX 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(c)(6)

MKR 16.48 MHz

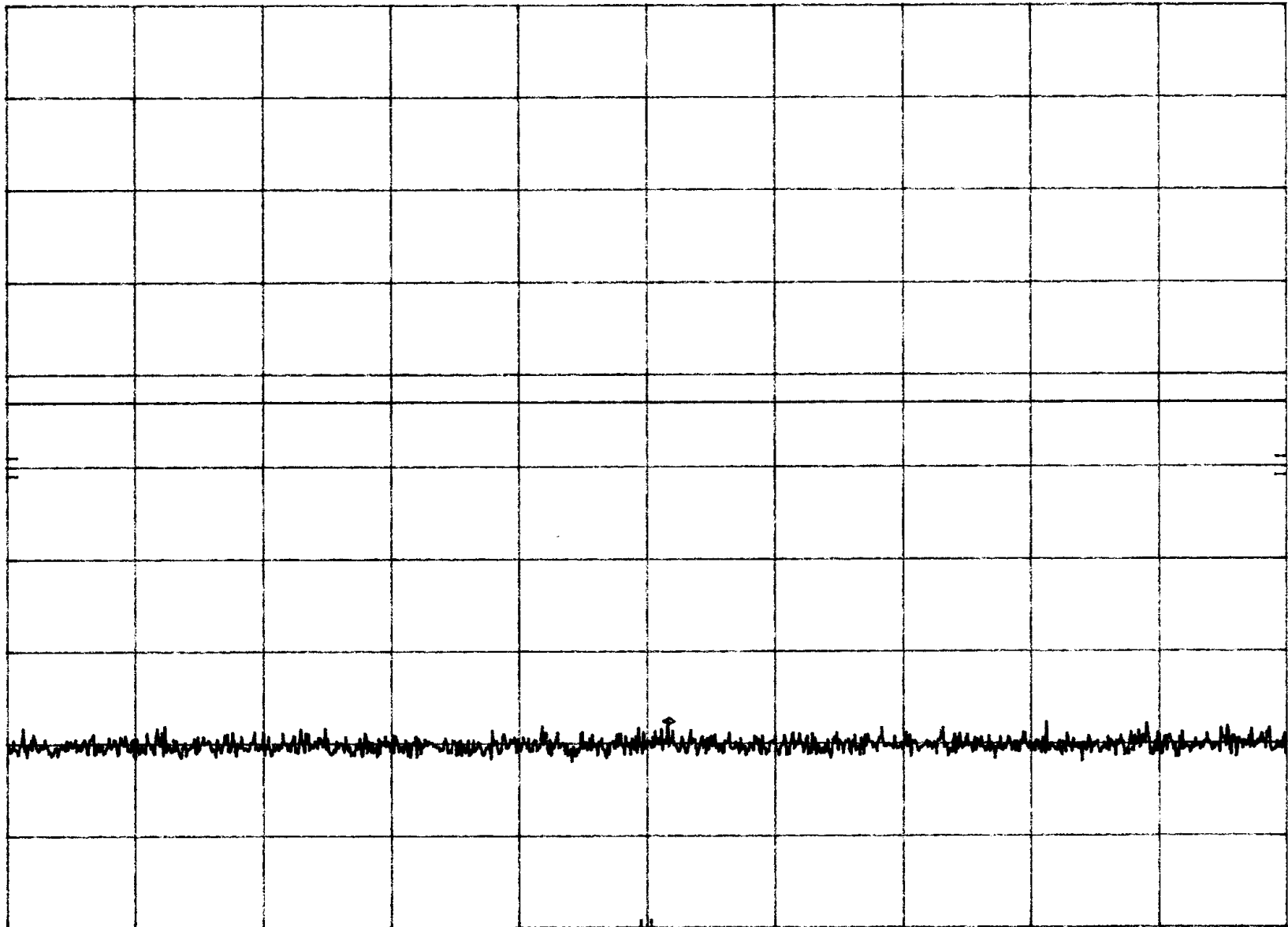
-47.60 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 kHz

VBW 100 kHz

STOP 30.0 MHz
SWP 20.0 msec

54

CONDUCTED SPURIOUS
TWO MHz TRANSMIT (HIGH) Tx 12, Rx 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

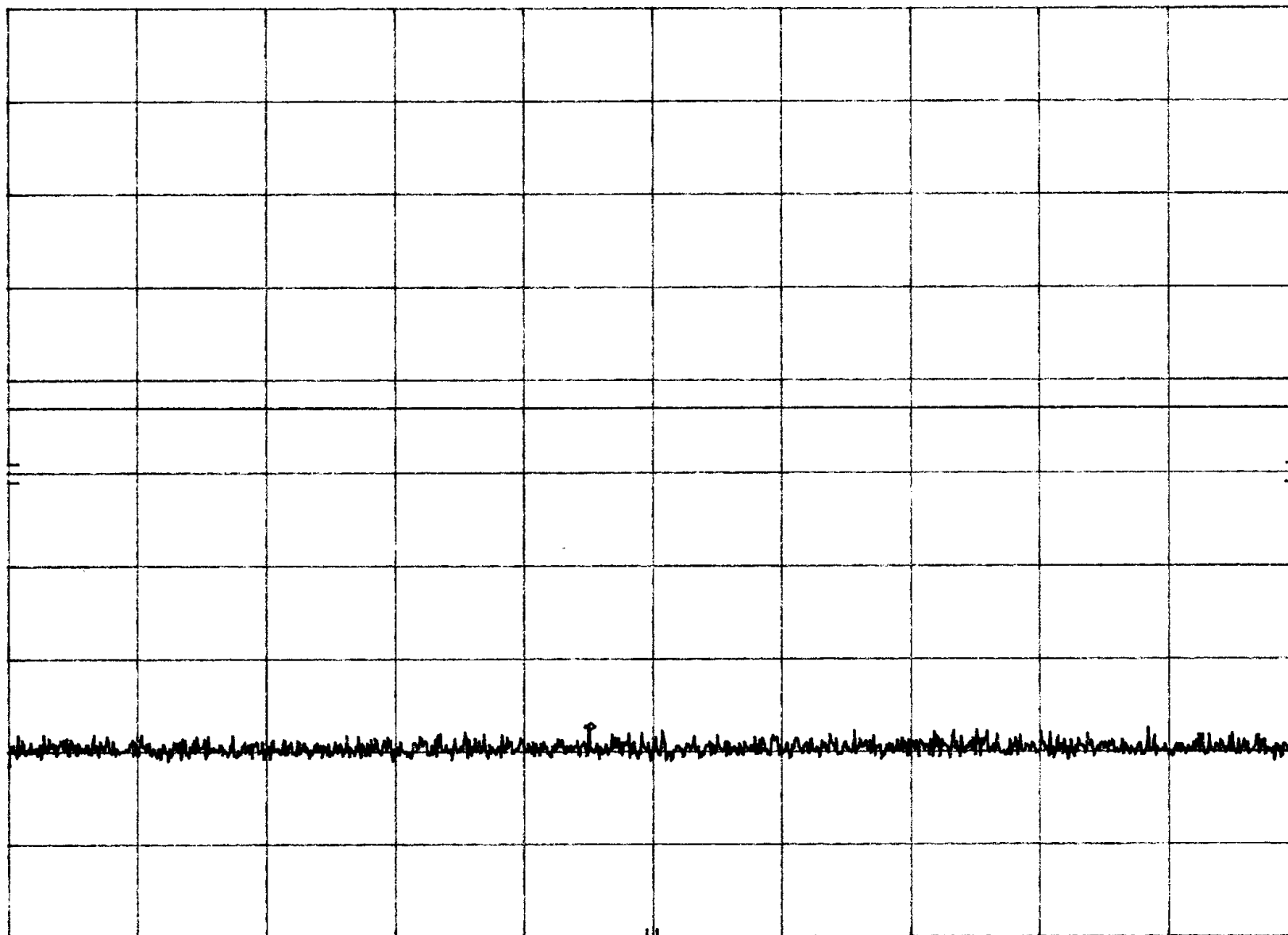
MKR 287.1 MHz
-47.30 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 KHz

VBW 100 KHz

STOP 600 MHz

SWP 171 msec 55

CONDUCTED SPURIOUS

740 MHz TRANSMIT (H16V) Tx 12, Rx 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 739.2 MHz

16.90 dBm

hp

REF

30.0 dBm

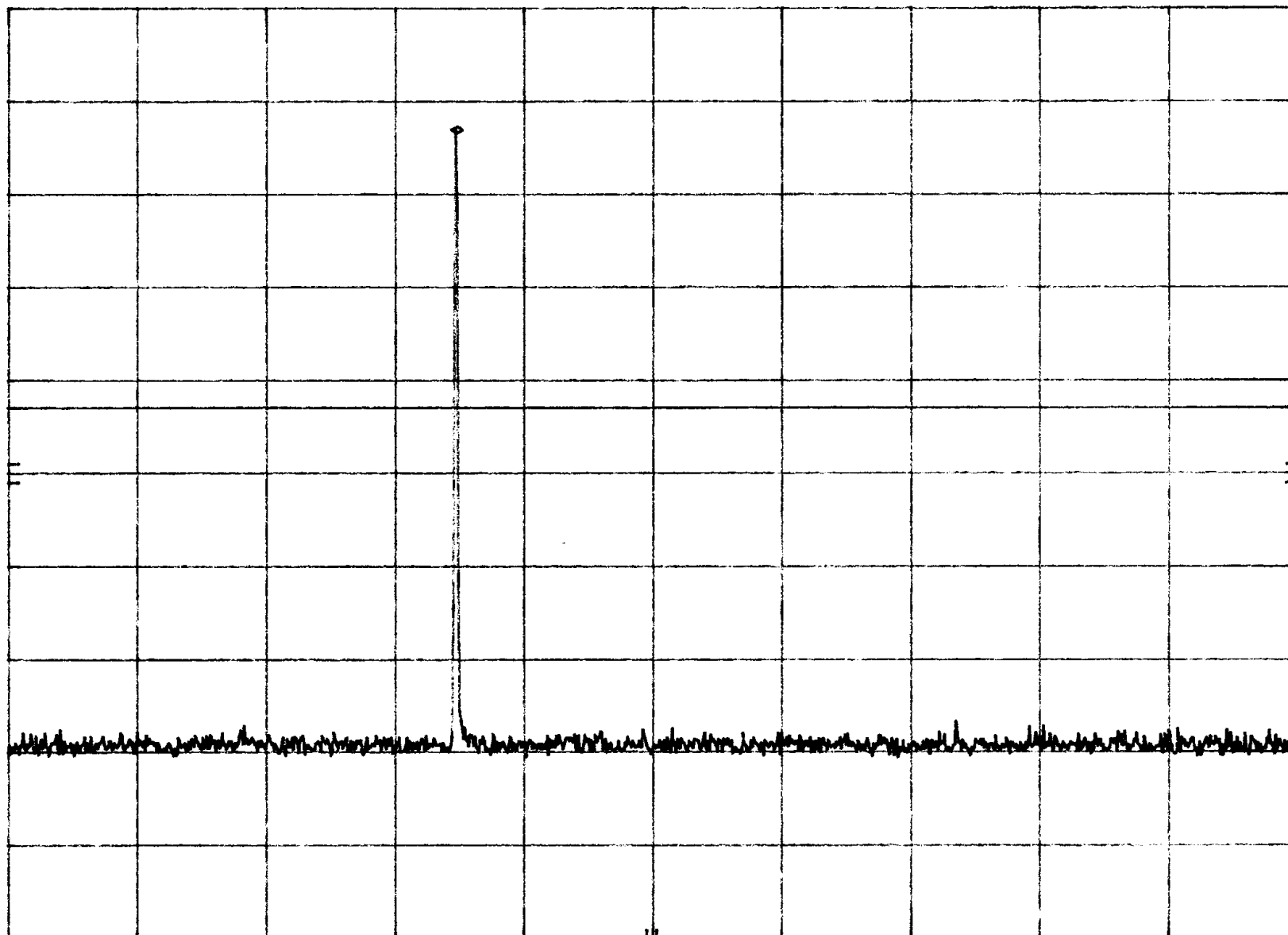
ATTEN

40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 600 MHz

RES BW 100 kHz

VBW 100 kHz

STOP 1.000 GHz

SWP 120 msec

56

CONDUCTED SPURIOUS

740 MHz TRANSMIT (A10A) Tx 12, Rx 1

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 1.047 GHz

-39.70 dBm

hp

REF

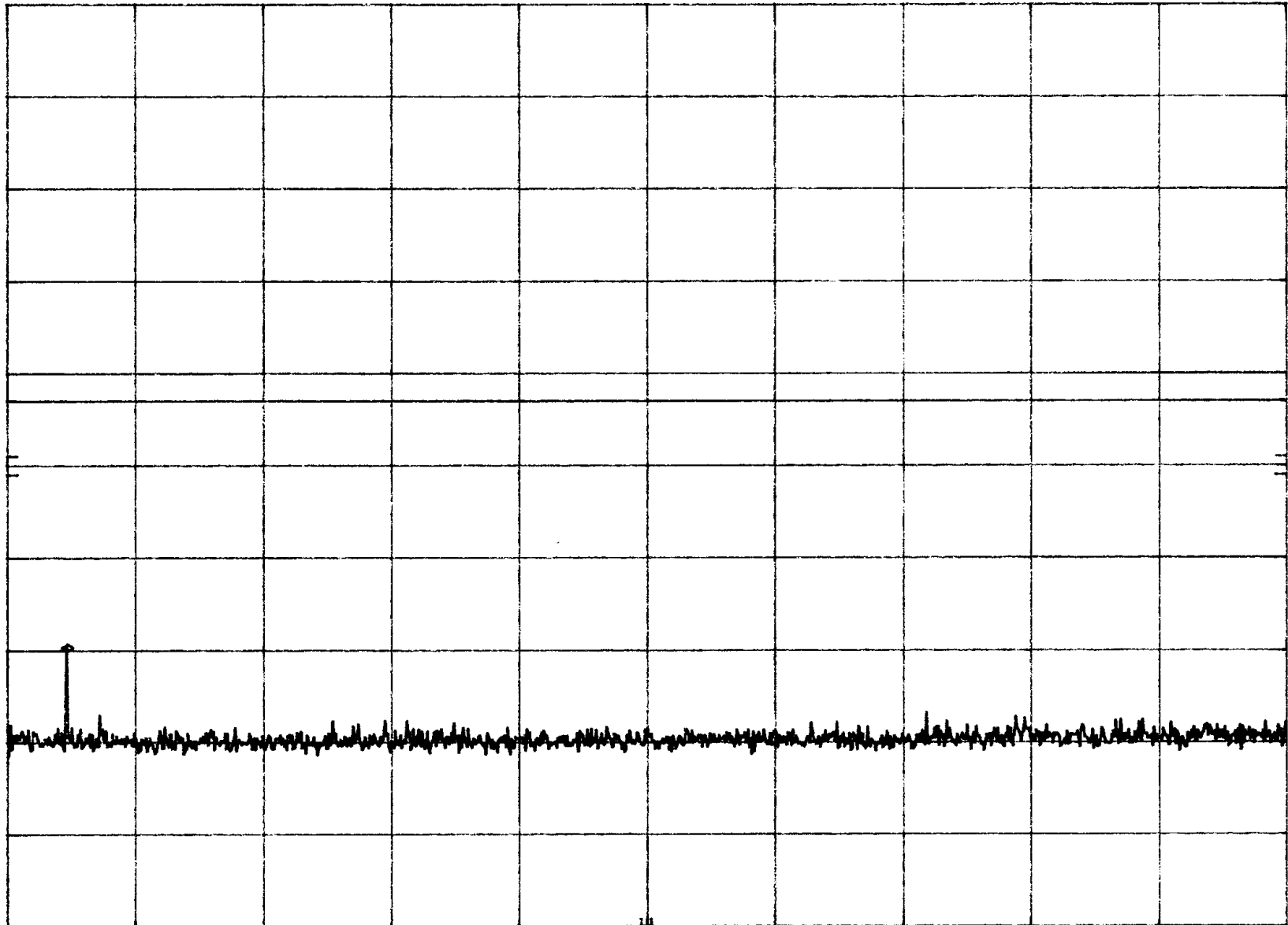
30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 KHz

VBW 100 KHz

STOP 2.00 GHz
SWP 300 msec

57

CONDUCTED SPURIOUS

710 MHz TRANSMIT (HIGH) T₂ 12, R₂ 8

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

MKR 2.222 GHz

-43.80 dBm

hp

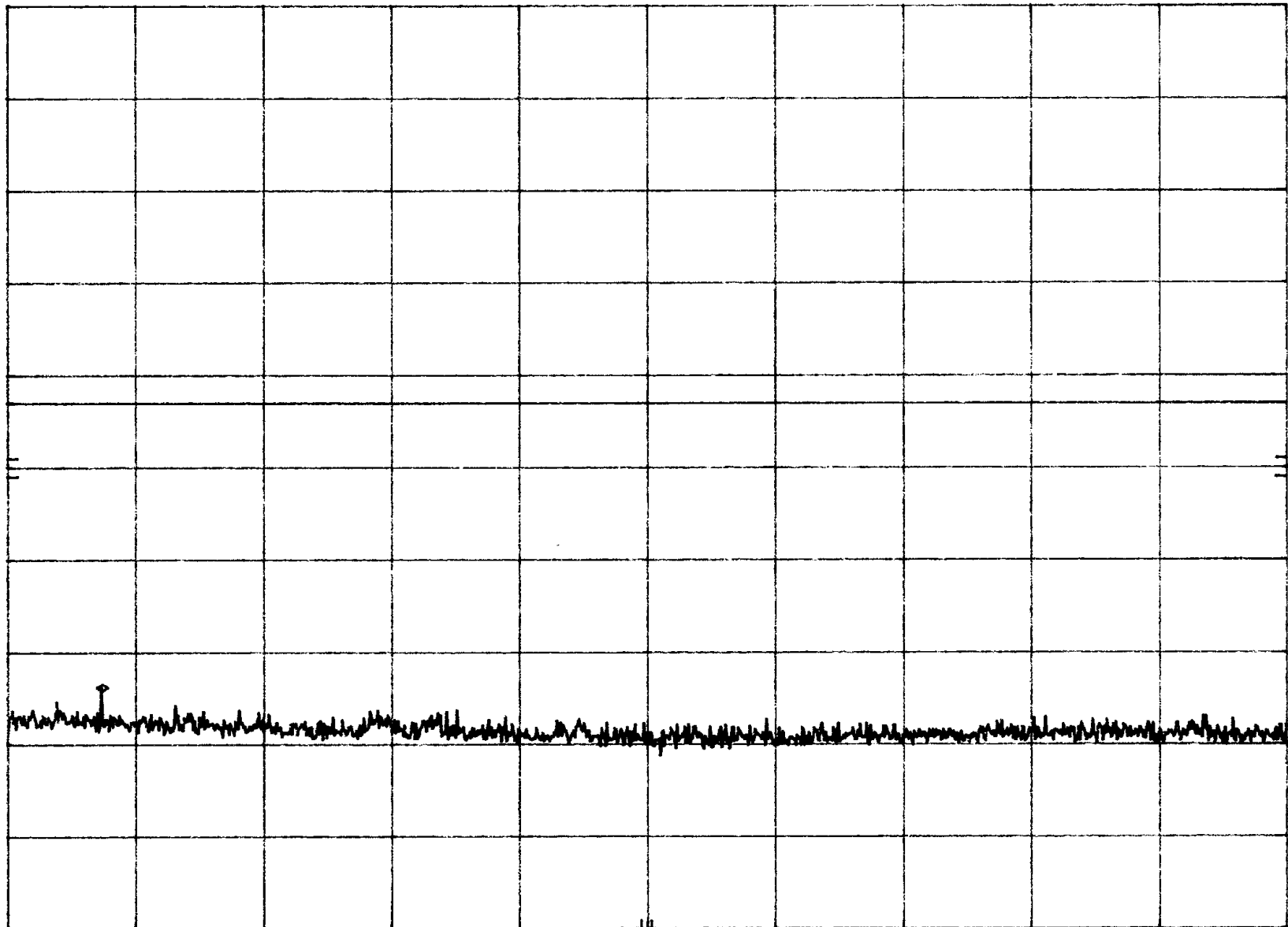
REF 30.0 dBm

ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 kHz

VBW 100 kHz

STOP 5.00 GHz

SWP 900 msec

58

CONDUCTED 5 WIRELESS
740 MHz TRANSMIT (HIGH) TX 12, B H

Part 2, Para. 2.1051 and Part 74, Para. 74.861(e)(6)

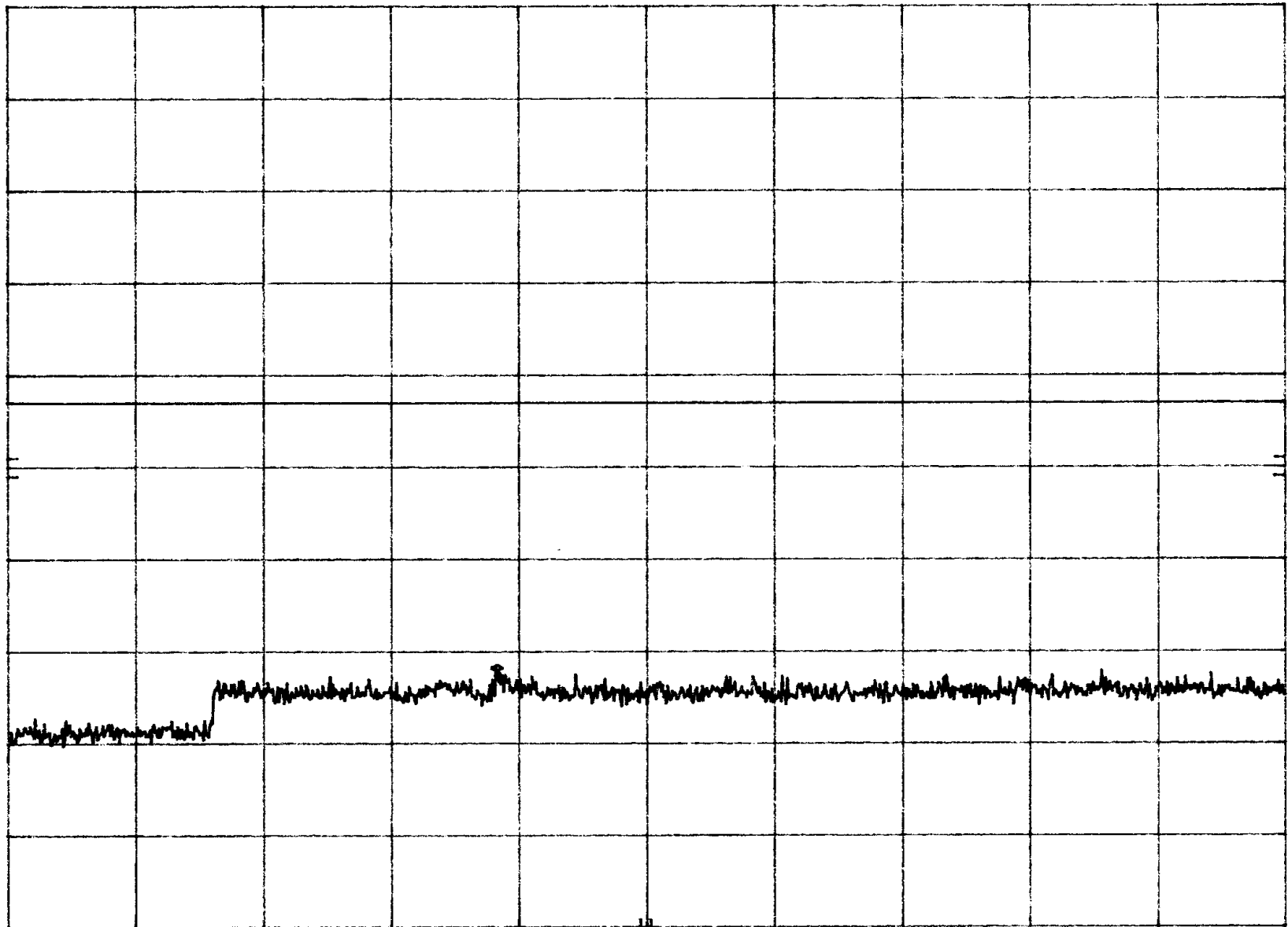
MKR 6.915 GHz
-41.80 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 kHz

VBW 100 kHz

STOP 10.00 GHz

SWP 1.50 sec 59

PEAK OUTPUT POWER:

$$57.5 \text{ MW} = .0575 \text{ W}$$

710 MHz TRANSMIT (LOW) TX 12, R8

$$2.1046 + 74.861 \text{ dBm}$$

$$\text{Limit} = 250 \text{ mW}$$

MKR 710.010 MHz

17.60 dBm

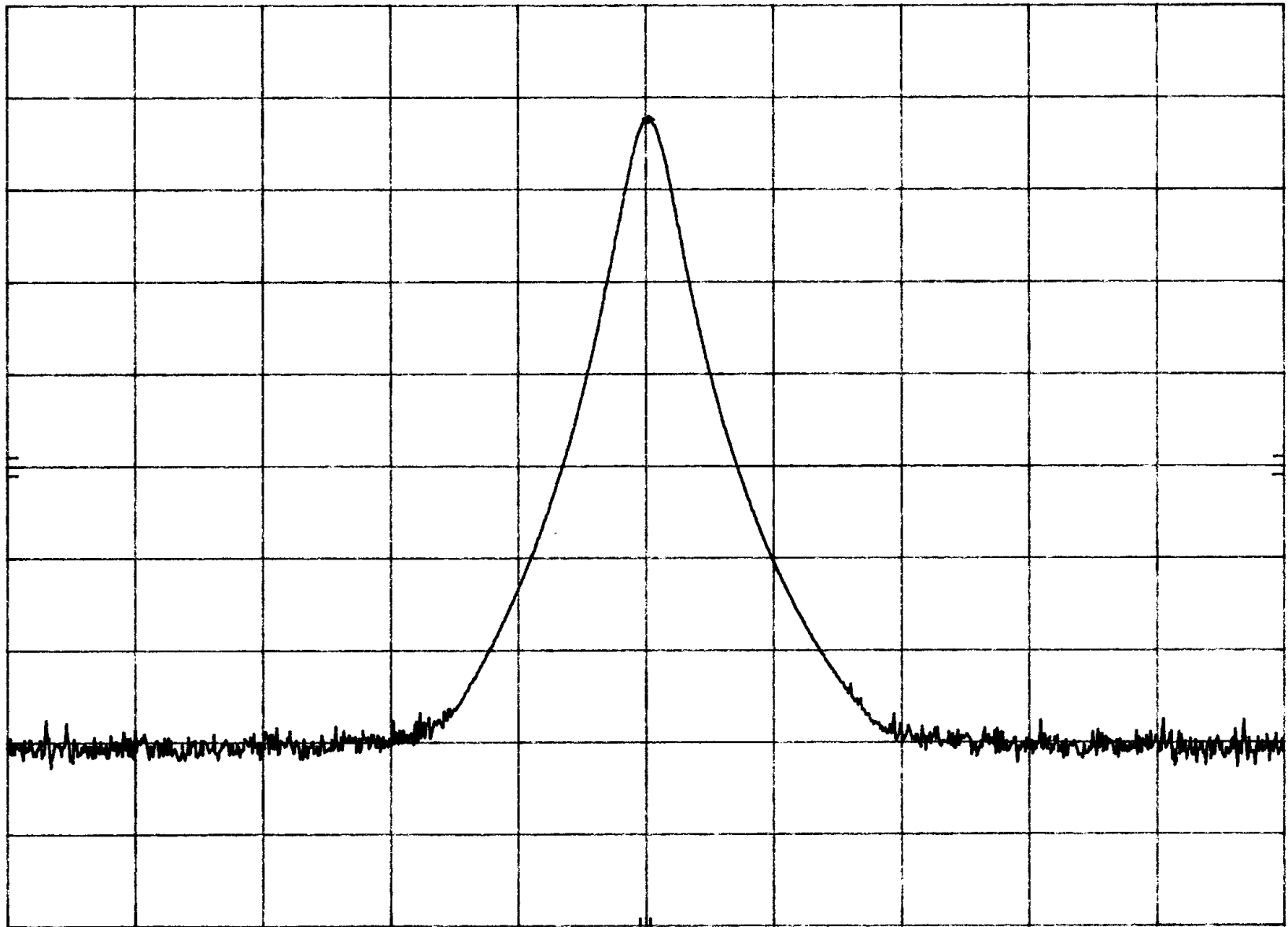
hp

REF 30.0 dBm

ATTEN 40 dB

10 dB/

POS PK



CENTER 710.00 MHz

RES BW 100 kHz

VBW 100 kHz

SPAN 5.00 MHz

SWP 20.0 msec

60

PEAK POWER OUTPUT:

$$58.9 \text{ mW} = .0589 \text{ W}$$

725 MHz TRANSMITTER (MID) Tx 12, Rx 8

2.1046 + 74.861(0)(1)
Limit = 250 mW

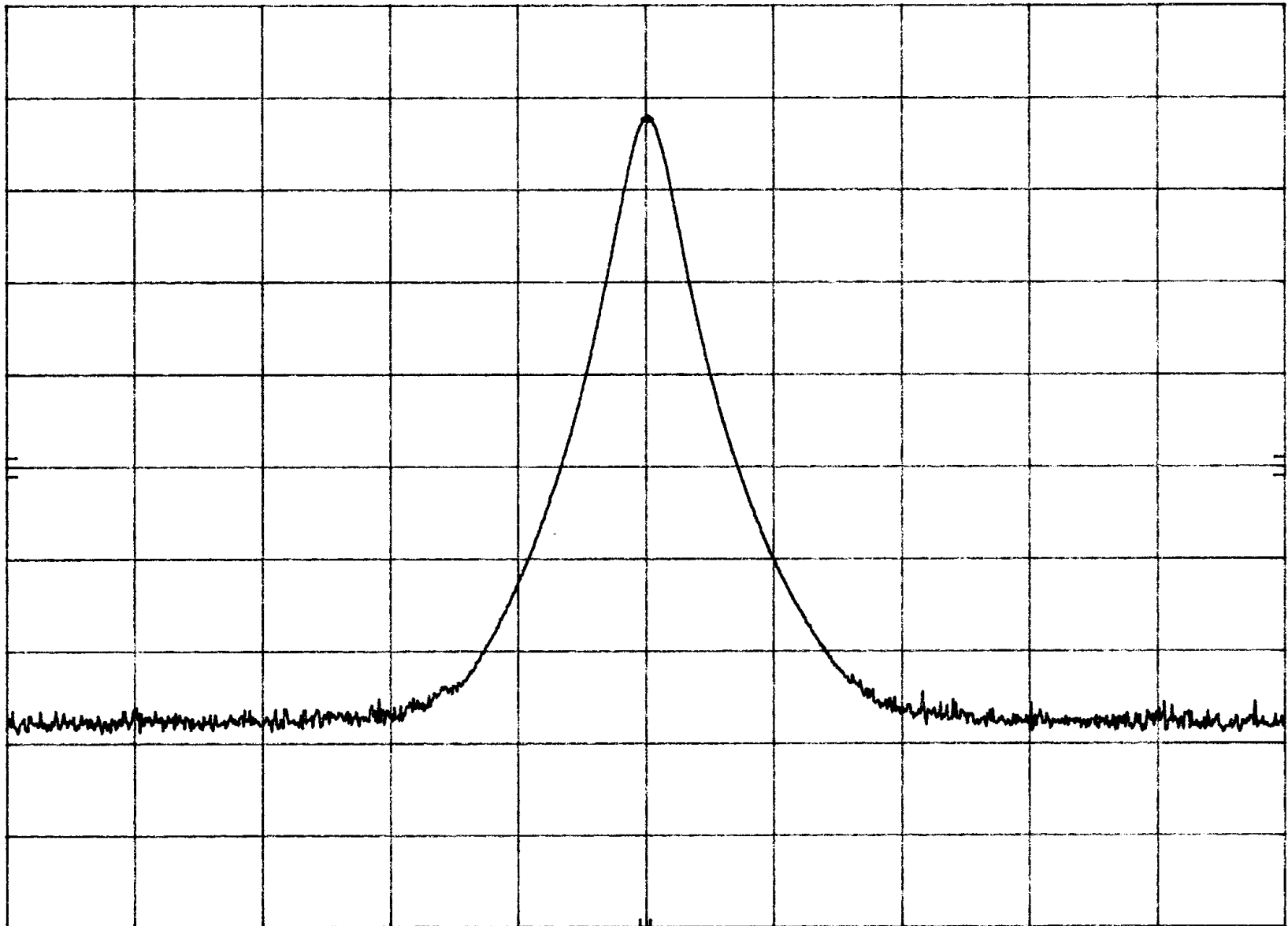
MKR 724.974 MHz

17.70 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK



CENTER 724.96 MHz

RES BW 100 KHz

VBW 300 KHz

SPAN 5.00 MHz

SWP 20.0 msec 61

PEAK OUTPUT POWER

53.7 mW = .0537

2.1046 & 74.861 (2)(1)

Limit = 250 mW

740 MHz TRANSMIT (HIGH) TX 12, R 8

MKR 739.985 MHz

17.30 dBm

HP

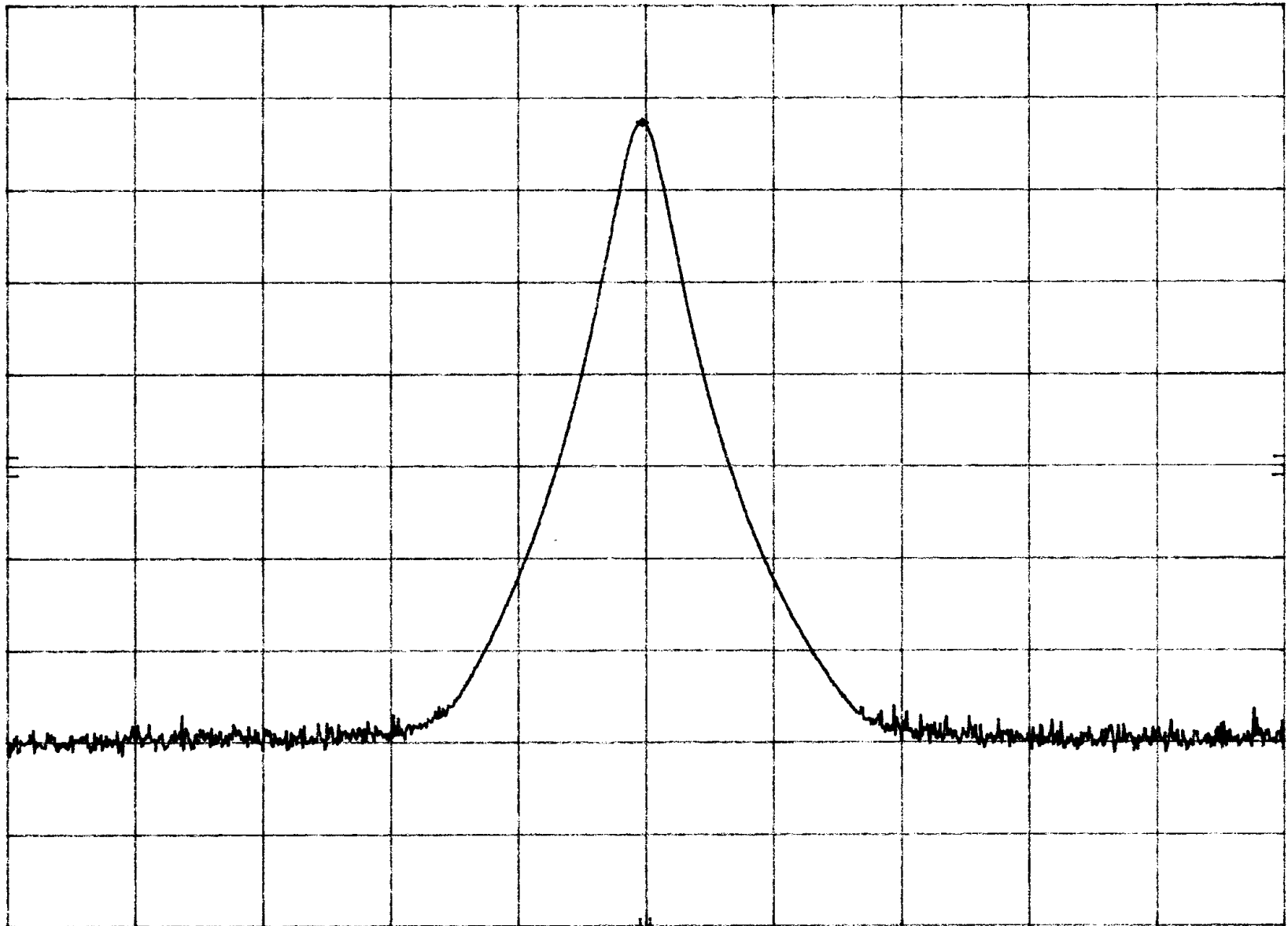
REF

30.0 dBm

ATTEN 40 dB

10 dB/

POS PK



CENTER 740.00 MHz

RES BW 100 kHz

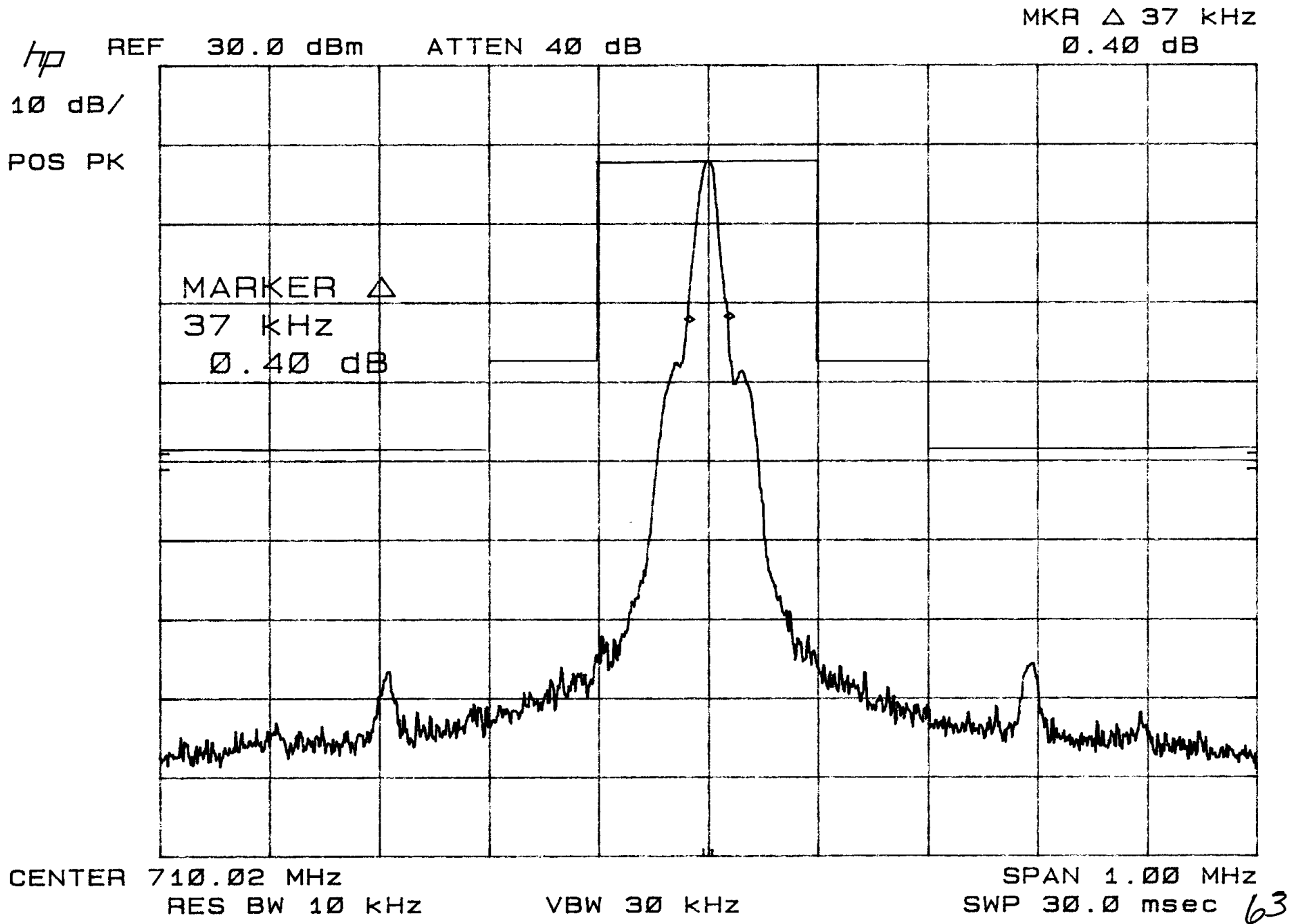
VBW 100 kHz

SPAN 5.00 MHz

SWP 20.0 msec 62

OCCUPIED BANDWIDTH
740 MHz TRANSMIT (LOW Tx12, Rx8)

Part 2, Para 2.1049; Part 74, Para 74.861(e)5 & 74.861(e)(6)(I)(ii)



OCCUPIED BANDWIDTH

725 MHz TRANSMIT (MIC) Tx 12, Ex 8

Part 2, Para 2.1049; Part 74, Para 74.861(e)5 & 74.861(e)(6)(I)(ii)

MKR Δ 36 kHz

-0.50 dB

hp

REF 30.0 dBm

ATTEN 40 dB

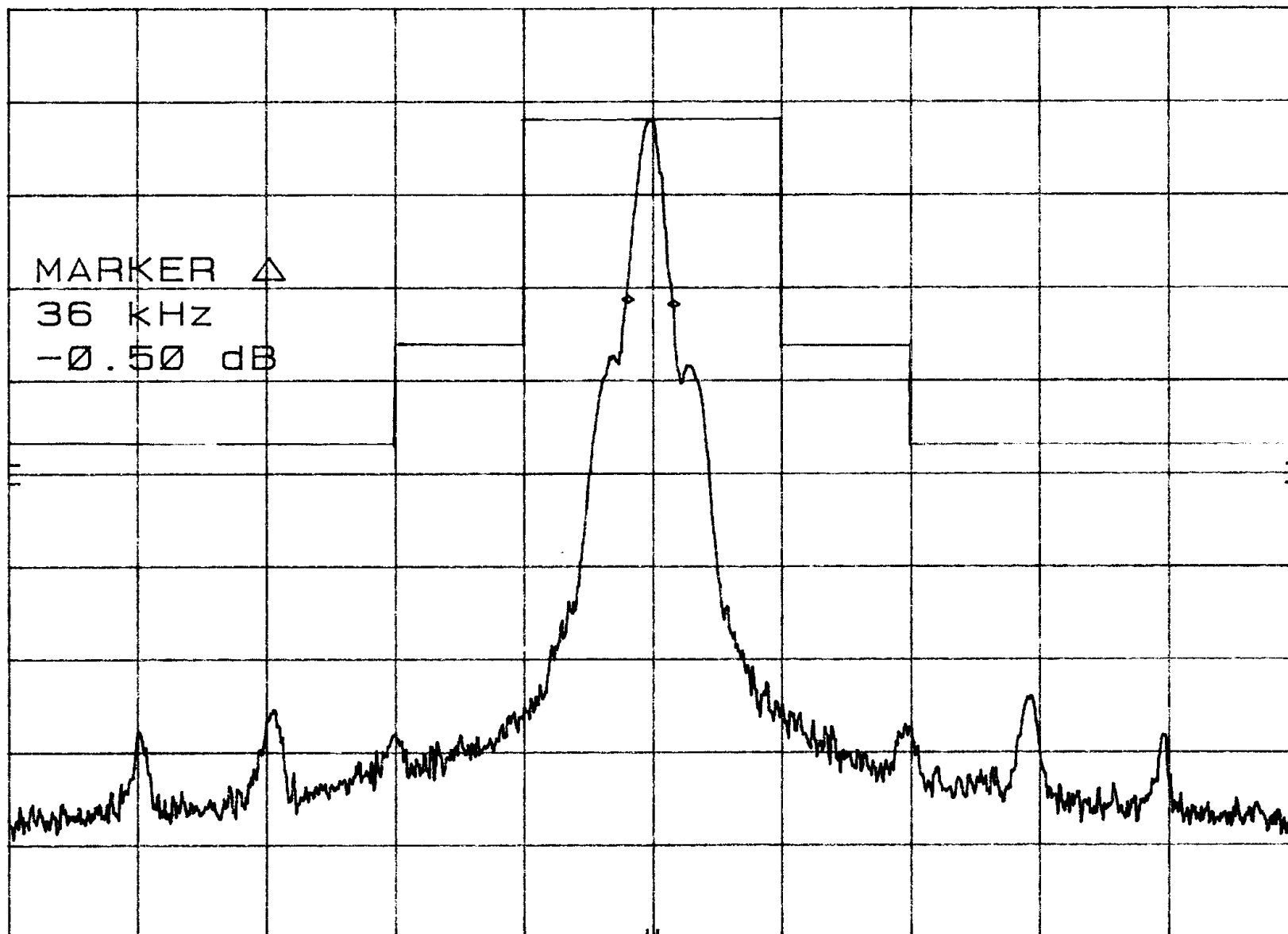
10 dB/

POS PK

MARKER Δ

36 kHz

-0.50 dB



CENTER 724.99 MHz

RES BW 10 kHz

VBW 30 kHz

SPAN 1.00 MHz

SWP 30.0 msec 64

OCCUPIED BANDWIDTH
740 MHz TRANSMIT (HIGH) Tx 12, Rx S

Part 2, Para 2.1049; Part 74, Para 74.861(e)5 & 74.861(e)(6)(I)(ii)

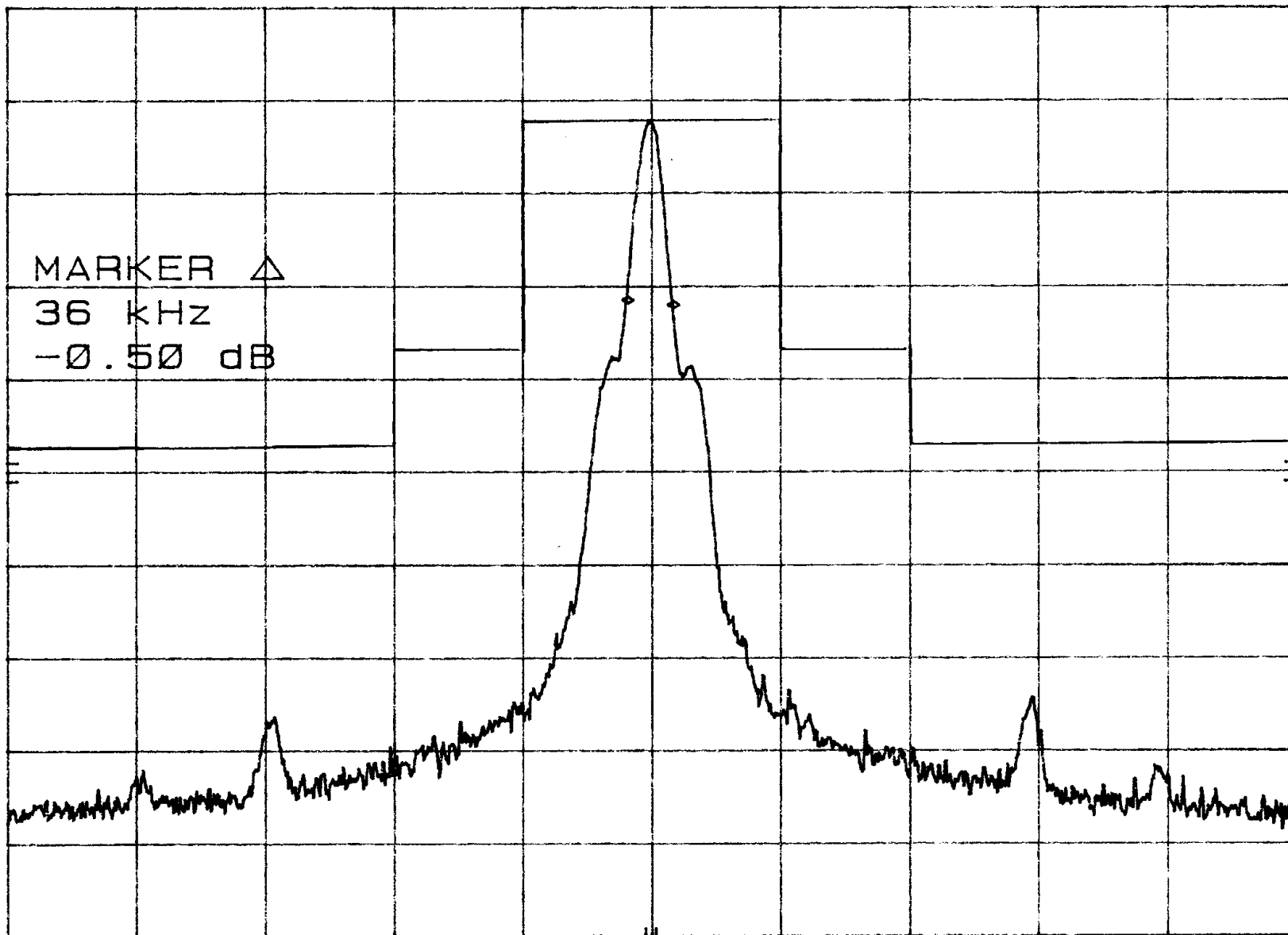
MKR Δ 36 KHz
-0.50 dB

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

MARKER Δ
36 KHz
-0.50 dB



CENTER 740.00 MHz
RES BW 10 KHz

VBW 30 KHz

SPAN 1.00 MHz
SWP 30.0 msec

65

Modulation Characteristics

Modulation Limiting

Test Report #: S0519

Test Area: SR3

Test Method: FCC Part 2, Section 2.1047(b) + Part 74, Section 74.861(e)(3)

Date: 01/11/01

EUT Model #: BP 700

EUT Power:

☐ 230 Vac/50 Hz ☐ 120 Vac/60 Hz

☒ Other: 9 Vdc

EUT Description: Belt Pack, T12, RS

NOTES: 740 MHz (MID)

Audio Input Level (dBm)	Audio Input Frequency (Hz)							
	300 Hz		1.0 K		2.5 K		3.0 K	
	+ Peak	- Peak	+ Peak	- Peak	+ Peak	- Peak	+ Peak	- Peak
+16	11	12	13.5	14	18.5	18.5	18.5	19
+10	12.5	13.5	15	15	18.5	18.5	19	19
0	8	8.5	9	9.5	12	12.5	14	14.5
-10	6	6	5.5	6	8	8	9	9
-20	5	5	5	5	6	6	6	6
-30	5	5	5	5	5	5	5	5
-40	5	5	5	5	5	5	5	5

Reviewed By: Mary Washington
Printed

Mary Washington
Signature

Modulation Characteristics

Frequency Response

Test Report #: SC519

Test Area: SR3

Test Method: FCC Part 2, Section 2.1047(a)

Date: 01/11/01

EUT Model #: BP-700

EUT Power:

☐ 230 Vac/50 Hz ☐ 120 Vac/60 Hz

☒ Other: 9Vdc

EUT Description: Belt Pack T12, R8

NOTES: 740 MHz & (MID)

Audio Frequency (Hz)	Deviation in (kHz)
10	5.5
20	5.5
30	5.5
40	5.5
50	5.5
60	5.5
70	6
80	6
90	6
100	6.5
200	7
300	7
400	7.5
500	7.5
600	8
700	8
800	8.5
900	8.5
1000	8.5
2000	10.5
4000	16
6000	19.5
8000	20
10000	19.5
12000	19
14000	16
16000	12
18000	8.5
20000	7
25000	12

Reviewed By: Mary Washington
Printed

Mary Washington
Signature

Vega Wireless Beltpack - 724.9987MHz Reference
January 15, 2001
TUV Product Service

"08:23:57",-4992,-30.78
"08:25:02",-4992,-30.84
"08:26:07",-4992,-30.94
"08:27:11",-4992,-31.08
"08:28:16",-4928,-31.1
"08:29:21",-4992,-31.14
"08:30:25",-4992,-31.17
"08:31:31",-4992,-31.22
"08:32:35",-4992,-31.31
"08:33:40",-4992,-31.29
"08:09:18",-1024,-21.822
"08:10:23",-1024,-21.835
"08:11:27",-768,-21.837
"08:12:32",-640,-21.943
"08:13:37",-576,-21.911
"08:14:42",-512,-21.949
"08:15:46",-384,-21.953
"08:16:51",-512,-22.016
"08:17:56",-512,-22.042
"08:19:00",-320,-22.051
"09:19:15",768,-13.264
"09:20:20",896,-13.254
"09:21:24",960,-13.242
"09:22:29",768,-13.22
"09:23:34",896,-13.226
"09:24:38",960,-13.167
"09:25:43",960,-13.222
"09:26:48",960,-13.231
"09:27:52",896,-13.214
"09:28:57",896,-13.201
"10:29:11",960,-3.797
"10:30:17",896,-3.782
"10:31:21",960,-3.752
"10:32:26",896,-3.745
"10:33:31",896,-3.718
"10:34:36",960,-3.744
"10:35:40",960,-3.705
"10:36:45",960,-3.705
"10:37:50",960,-3.69
"10:38:54",896,-3.725
"11:39:09",896,5.605
"11:40:14",896,5.647

"11:41:18",960,5.651
"11:42:23",960,5.649
"11:43:28",1472,5.596
"11:44:33",896,5.676
"11:45:37",960,5.67
"11:46:42",896,5.714
"11:47:47",896,5.703
"11:48:51",896,5.732
"12:49:06",832,14.354
"12:50:11",768,14.426
"12:51:15",896,14.443
"12:52:20",832,14.491
"12:53:25",896,14.504
"12:54:30",768,14.54
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"12:56:40",640,14.551
"12:57:44",640,14.568
"12:58:49",704,14.587
"13:59:04",-256,26.116
"14:00:08",-448,25.097
"14:01:13",-448,24.204
"14:02:18",-448,23.644
"14:03:22",-448,23.271
"14:04:27",-512,23.063
"14:05:32",-576,23.023
"14:06:37",-512,22.942
"14:07:41",-576,22.899
"14:08:46",-576,22.894
"15:09:01",-1344,35.76
"15:10:05",-1472,35.69
"15:11:10",-1344,35.73
"15:12:15",-1472,35.7
"15:13:19",-1600,35.74
"15:14:24",-1344,35.73
"15:15:29",-1728,35.76
"15:16:34",-1728,35.74
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"15:18:43",-1664,35.74
"16:18:58",-1920,45.08
"16:20:03",-1920,45.07
"16:21:08",-1856,45.07
"16:22:12",-1920,45.1
"16:23:17",-1984,45.1
"16:24:22",-2112,45.12
"16:25:27",-1984,45.15
"16:26:31",-1984,45.16

frqstb1

2.1055

"16:27:36",-1984,45.19

"16:28:41",-1984,45.12