

TX4, RX8
Data

PEAK POWER OUTPUT: 90mW
LOW TRANSMIT 470.025 MHz Tx4 Rx3

FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

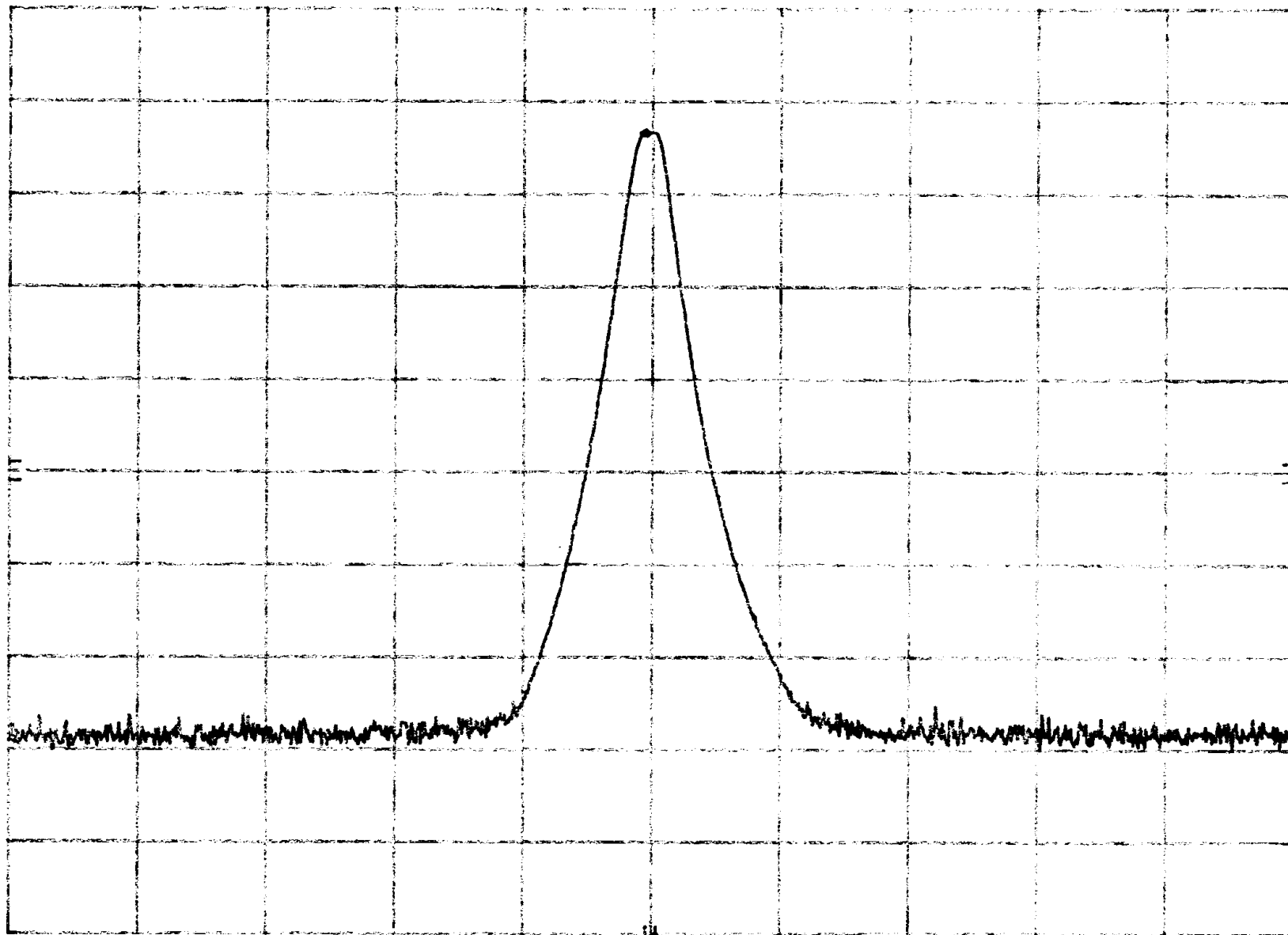
LOW POWER SIN104

MKA 469.995 MHz
16.60 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK



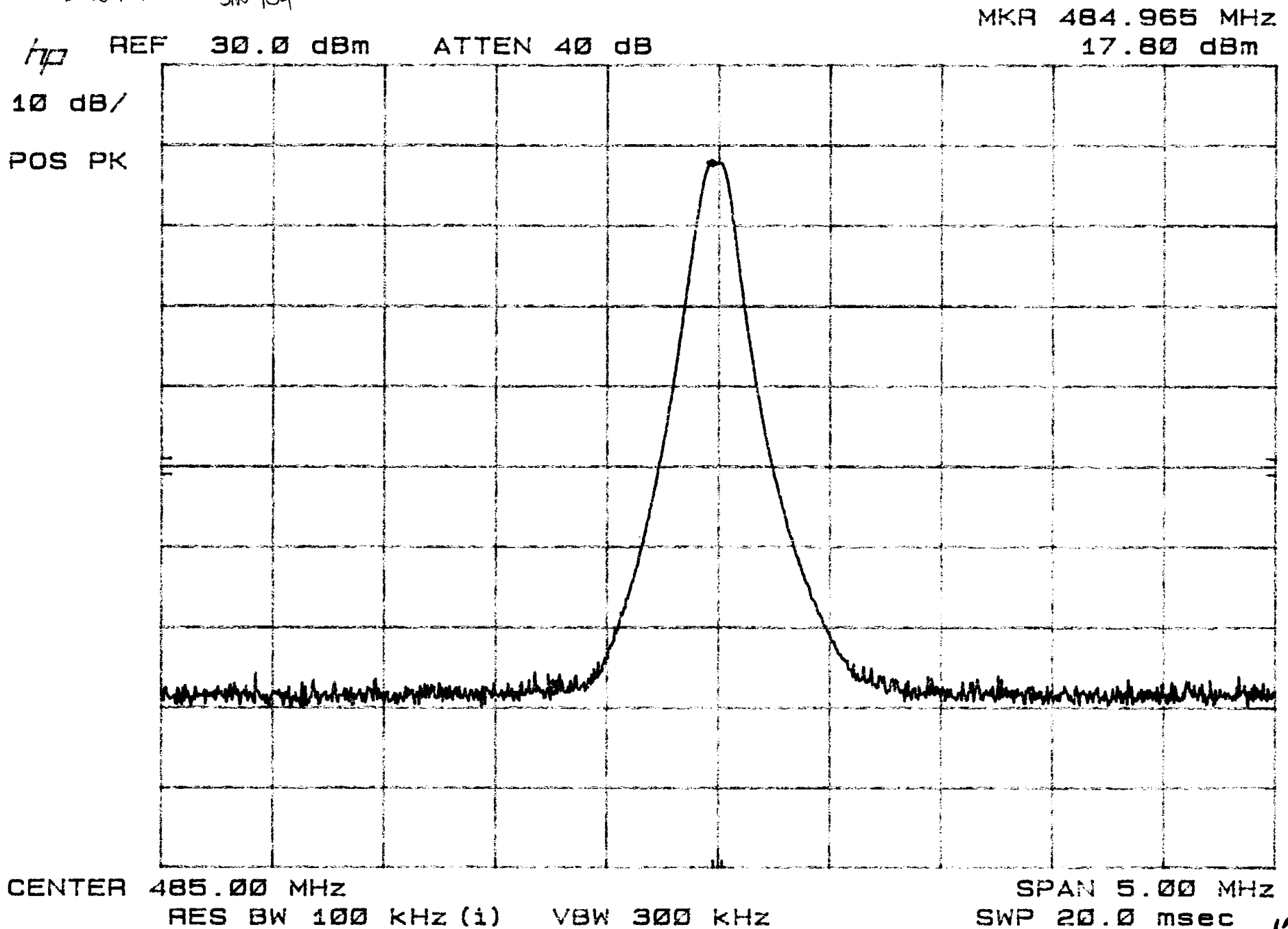
CENTER 470.02 MHz
RES BW 100 kHz (1) VBW 300 kHz

SPAN 5.00 MHz
SWP 20.0 msec

125

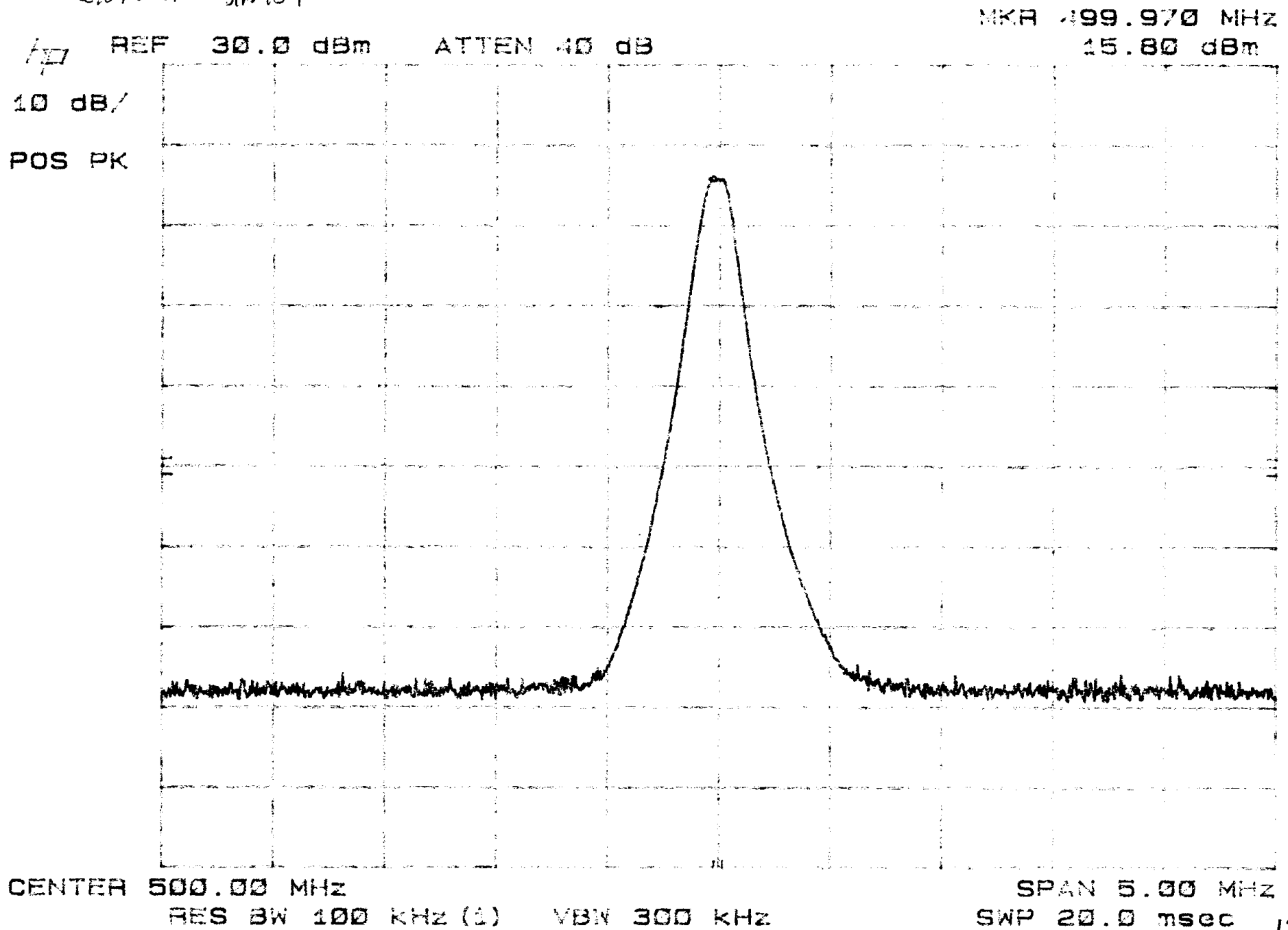
PEAK POWER OUTPUT: 130 mW
MID TRANSMIT 485 MHz TX 4 RX 3
LOW POWER SIN 104

FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT



PEAK POWER OUTPUT: 90mW
HIGH TRANSMIT 500MHz Tx4Rx3
LOW POWER S/N 104

FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT



PEAK POWER OUTPUT: 290 mW
LOW TRANSMIT 470.025 MHz Tx4 Rx8

HIGH POWER S/N 104

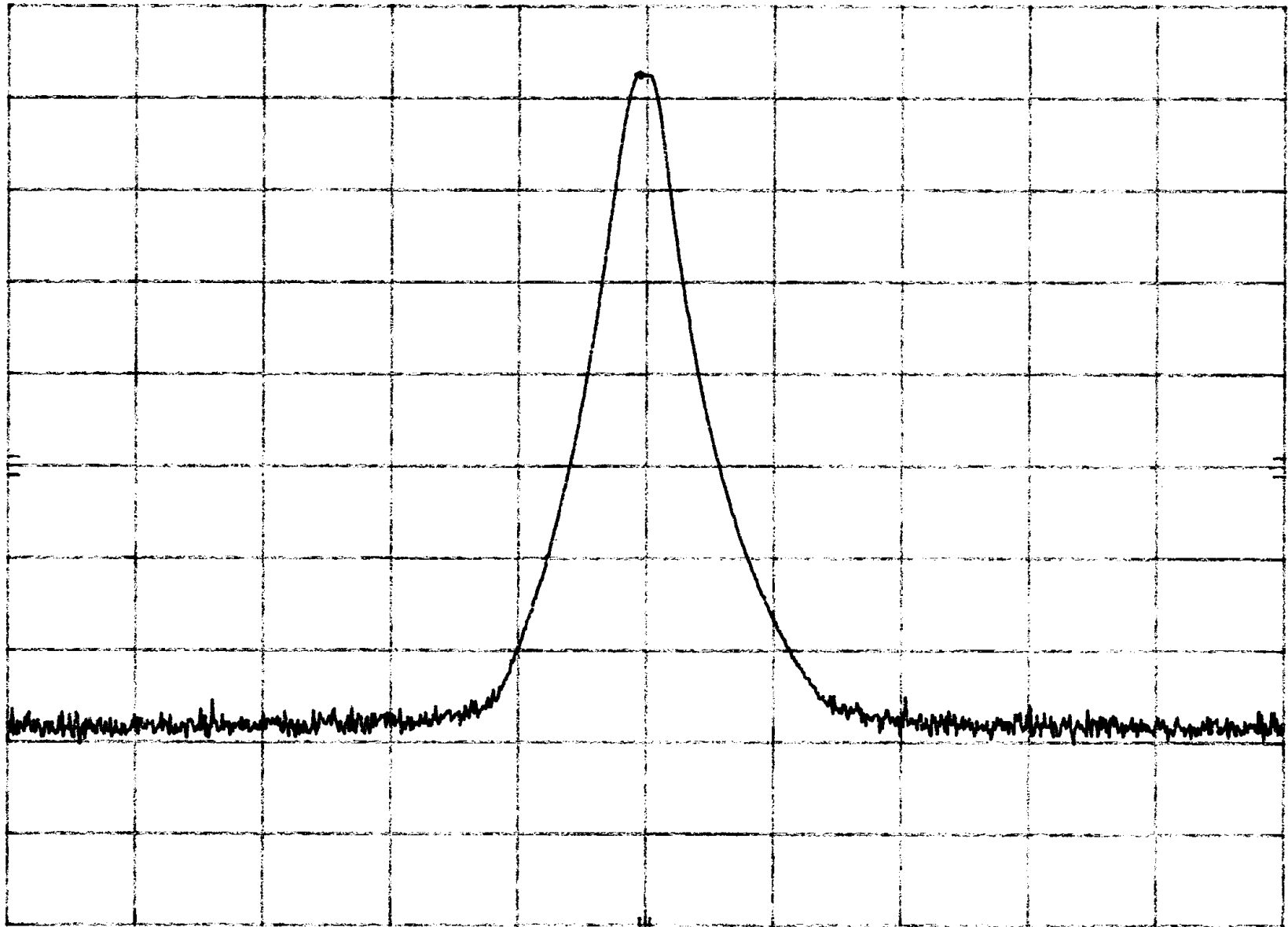
FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

MKR 469.995 MHz
22.50 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK



CENTER 470.02 MHz
RES BW 100 KHz (1) VBW 300 KHz

SPAN 5.00 MHz
SWP 20.0 msec

PEEL POWER OUTPUT: 320mW

MID TRANSMIT 485 MHz Tx4 Lx8.

HIGH POWER SIN 104

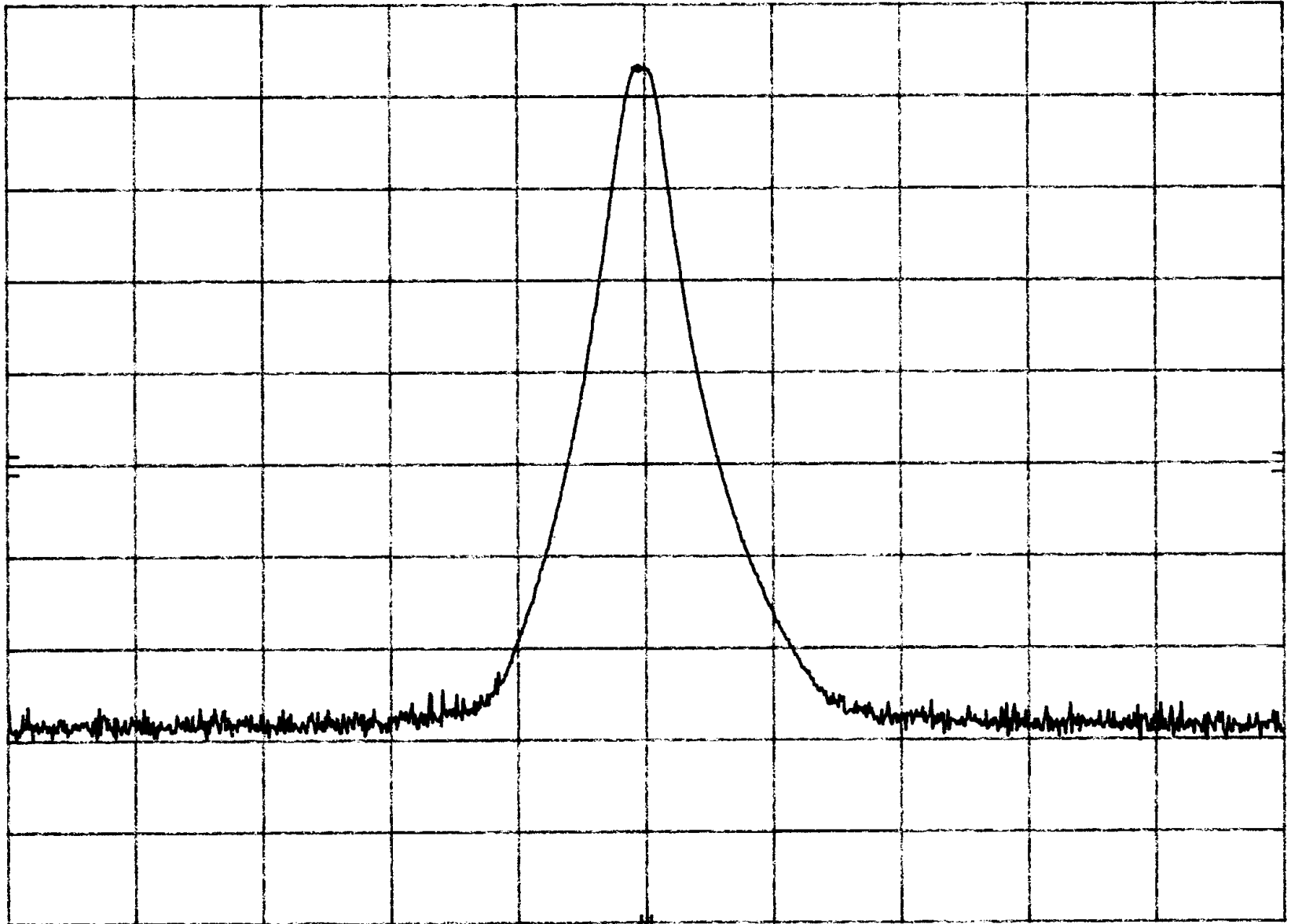
FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

MKR 484.970 MHz
23.00 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK



CENTER 485.00 MHz
RES BW 100 kHz (1) VBW 300 kHz

SPAN 5.00 MHz
SWP 20.0 msec

PEAK POWER OUTPUT: 270mW
HIGH TRANSMIT 500 MHz Tx4 Rx3

FCC PART 2, PARA. 2.1046 AND PART 74, PARA. 74.861(e)(1)(ii) RF POWER OUTPUT

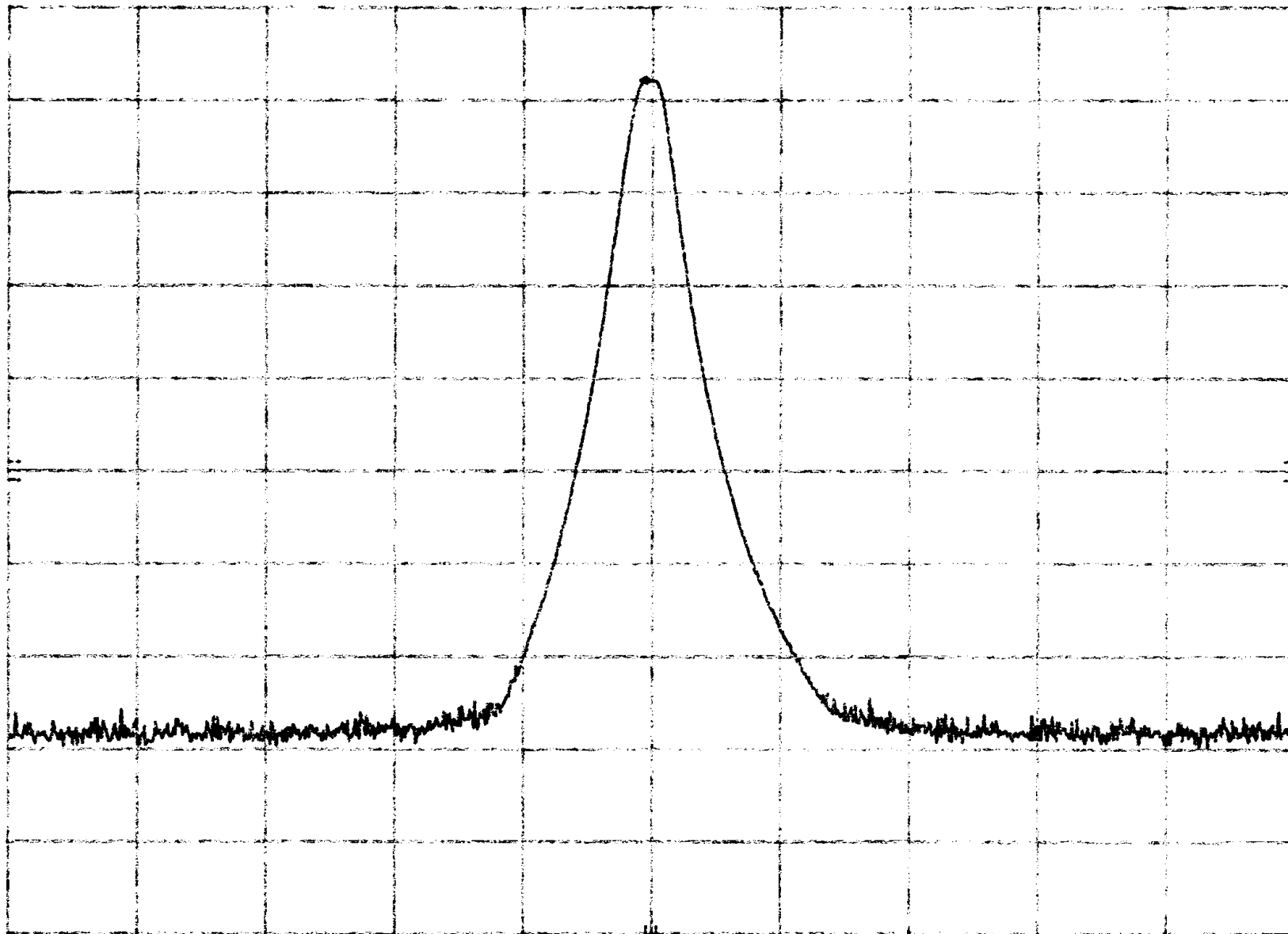
HIGH POWER SIN104

MKR 499.970 MHz
22.10 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK



CENTER 500.00 MHz
RES BW 100 KHz (1) VBW 300 KHz

SPAN 5.00 MHz
SWP 20.0 msec

130

Frequency Response

FCC PART 2, PARA. 2.1047(a) MODULATION CHARACTERISTICS

Customer: VASA WIRELESS

Date: 02/12/01

EUT: MASTER STATION MS-7000

Carrier Frequency: S/N 102 7x12 Rx4 (m10) 725MHz HIGH POWER

NOTES:

DEV (Ref) on spectrum analyzer after applying modulation (kHz):

Audio Frequency (Hz)	Deviation noted on Spectrum Analyzer (kHz)
20	6.5
30	7
40	7.5
50	8
60	8.5
70	8.5
80	8
90	7.5
100	7
200	6
300	6.5
400	7
500	7
600	7.5
700	8
800	8
900	8.5
1000	8.5
2000	13.5
4000	20.5
6000	23.5
8000	27.5
10000	27
12000	26
14000	19.5
16000	14.5
18000	10.5
20000	7.5

2500 Hz

15

10 Hz

6

Modulation Limiting

Customer: VEGA WIRELESS

Date: 02/12/01

Eut: MS-700 MASTER STATION

S/N 102 TX 12 RX 4 (MID) 725 MHz HIGH POWER

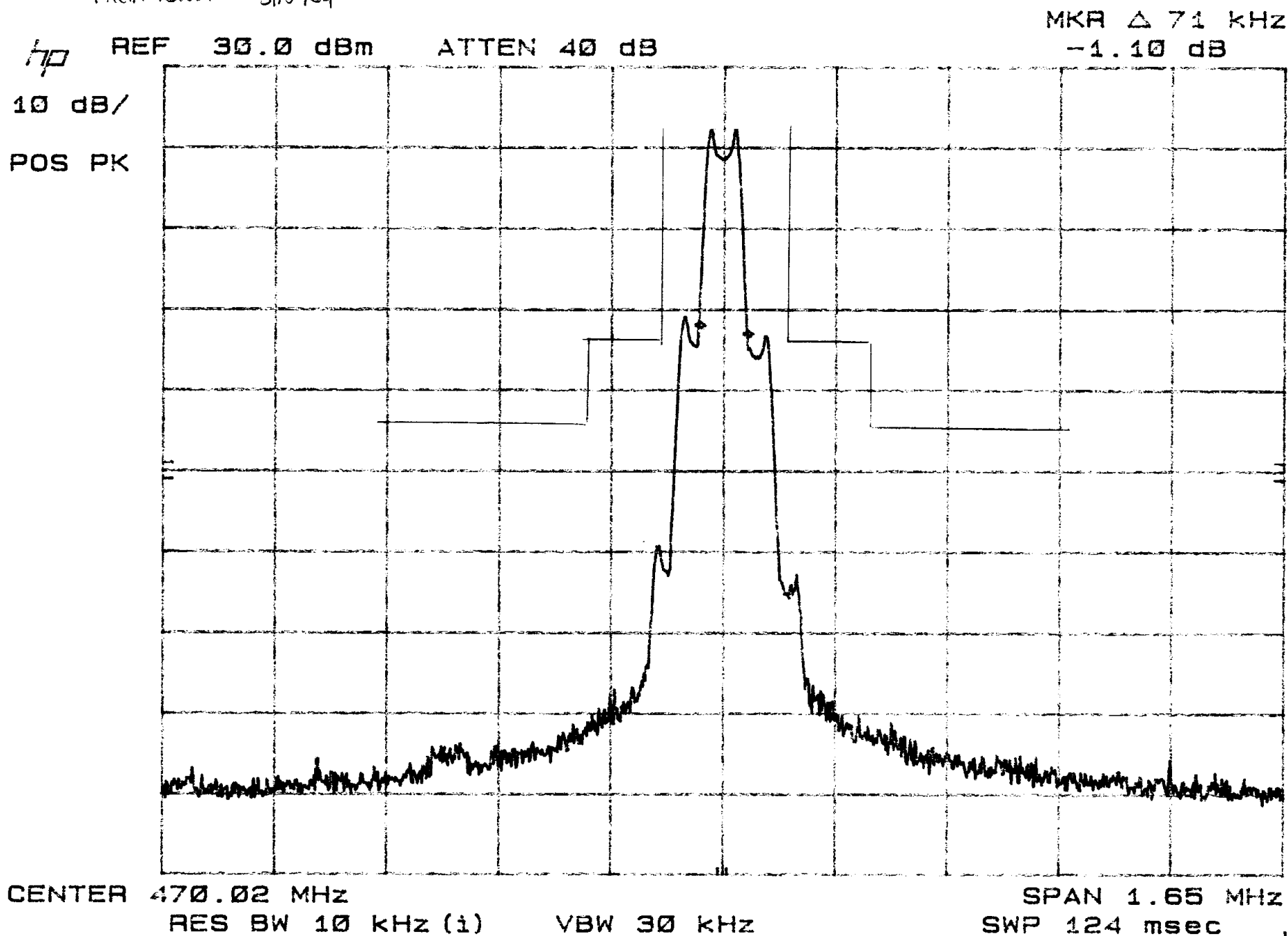
Carrier Frequency:

NOTES:

Audio Input Level (dBm)	Audio Input Frequency (Hz)							
	300		1.0 K		2.5 K		3.0 K	
	+ Peak	- Peak	+ Peak	- Peak	+ Peak	- Peak	+ Peak	- Peak
+10	17	13.5	22	24	27	29.5	27	29.5
+10	13	14	15.5	17	26.5	29	26.5	29
0	8.5	9	10	10.5	14.5	15.5	16	17
-10	7	7	7.5	8	11	11.5	12	12.5
-20	5.5	6	6	6	8	8	8	9
-30	5	5	5	5.5	6	6.5	6	6.5
-40	4.5	5	5	5	5	5.5	5	5.5

OCCUPIED BANDWIDTH
LOW TRANSMIT 170.025 MHz - Tx 4 Rx 3
HIGH POWER S/N 104

FCC PART 2, PARA. 2.1049 AND PART 74, PARA. 74.861(e)(5); AND PARA. 74.861(e)(6)(i)(ii) OCCUPIED BANDWIDTH



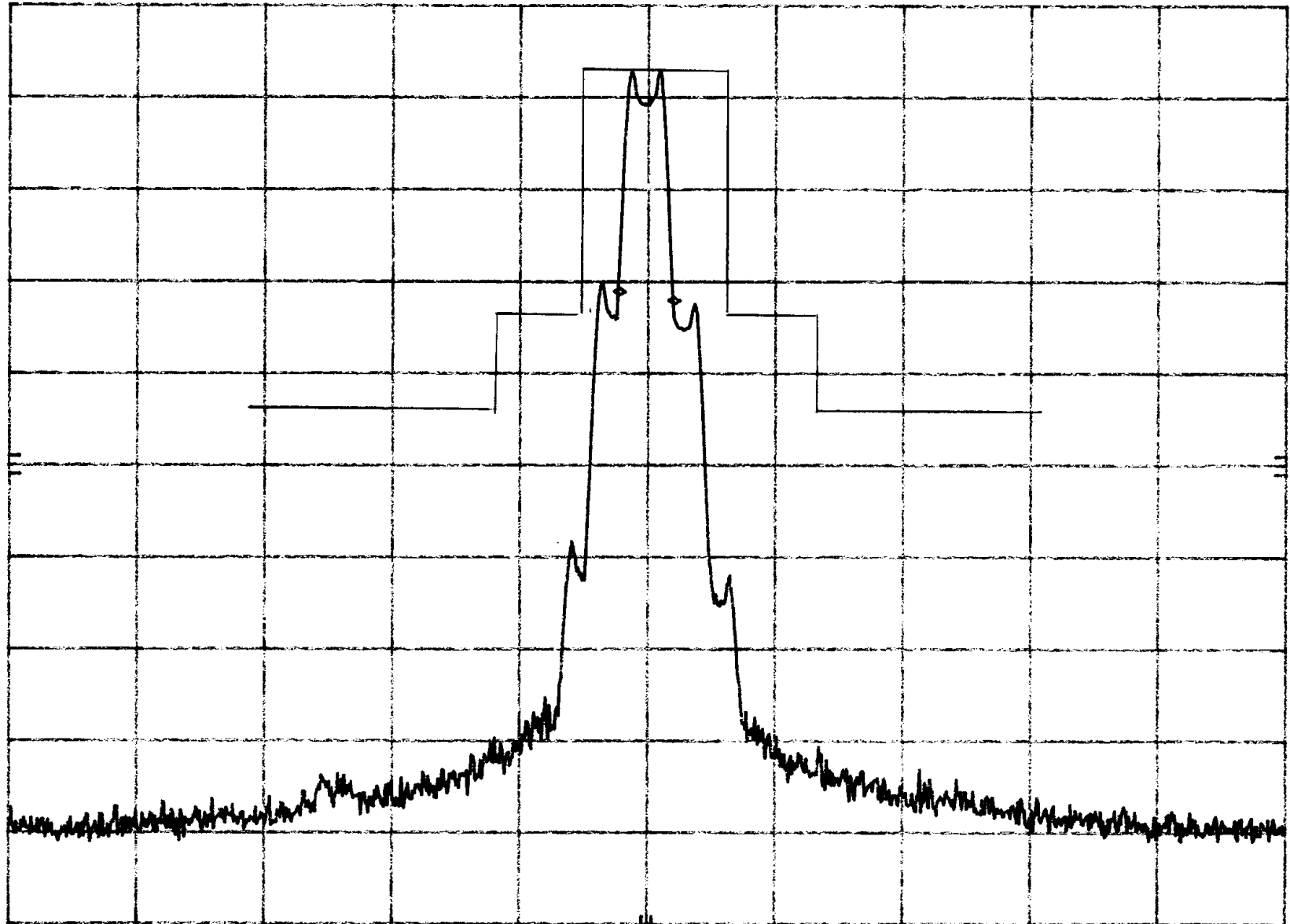
OCCUPIED BAND WIDTH
IMD TRANSMIT 495 MHz Tx:1 Rx:8
HIGH POWER SIN 104

FCC PART 2, PARA. 2.1049 AND PART 74, PARA. 74.861(e)(5); AND PARA. 74.861(e)(6)(i)(ii) OCCUPIED BANDWIDTH

hp REF 30.0 dBm ATTN 40 dB MKR Δ 71 KHz
-1.00 dB

10 dB/

POS PK



CENTER 485.00 MHz

RES BW 10 KHz (1)

VBW 30 KHz

SPAN 1.65 MHz
SWP 200 msec

134

OCCUPIED BANDWIDTH
HIGH TRANSMIT 500 MHz TX-1 R&S

HIGH POWER SIN 104

FCC PART 2, PARA. 2.1049 AND PART 74, PARA. 74.861(e)(5); AND PARA. 74.861(e)(6)(i)(ii) OCCUPIED BANDWIDTH

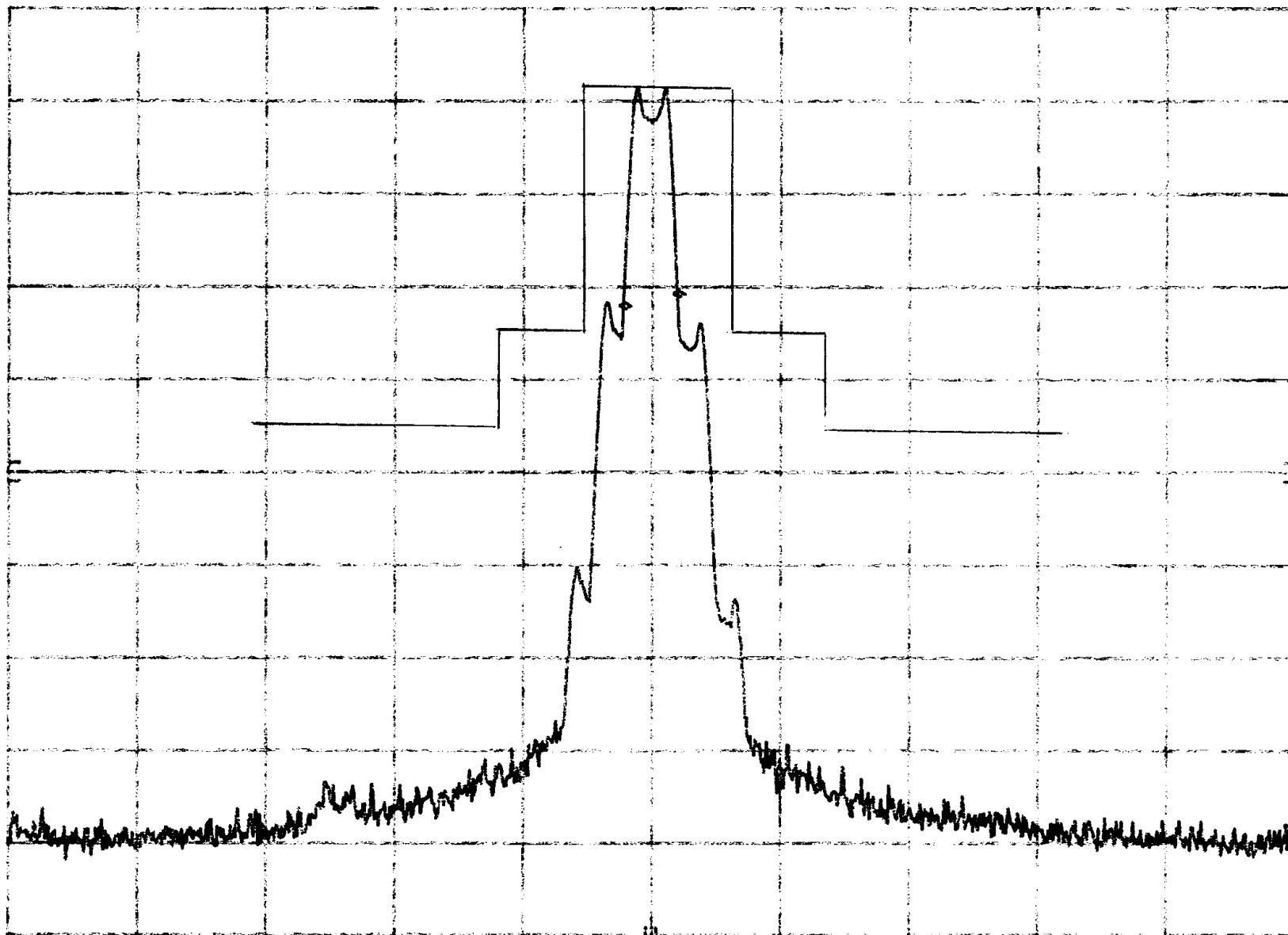
MKA Δ 69 KHz

1.30 dB

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK



CENTER 500.00 MHz

RES BW 10 KHz (1)

VBW 30 KHz

SPAN 1.65 MHz

SWP 124 msec

135

CONDUCTED SPURIOUS

LOW TRANSMIT 470.025 MHz Tx4 Rx8

LOW POWER SIN104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKA 5.61 MHz

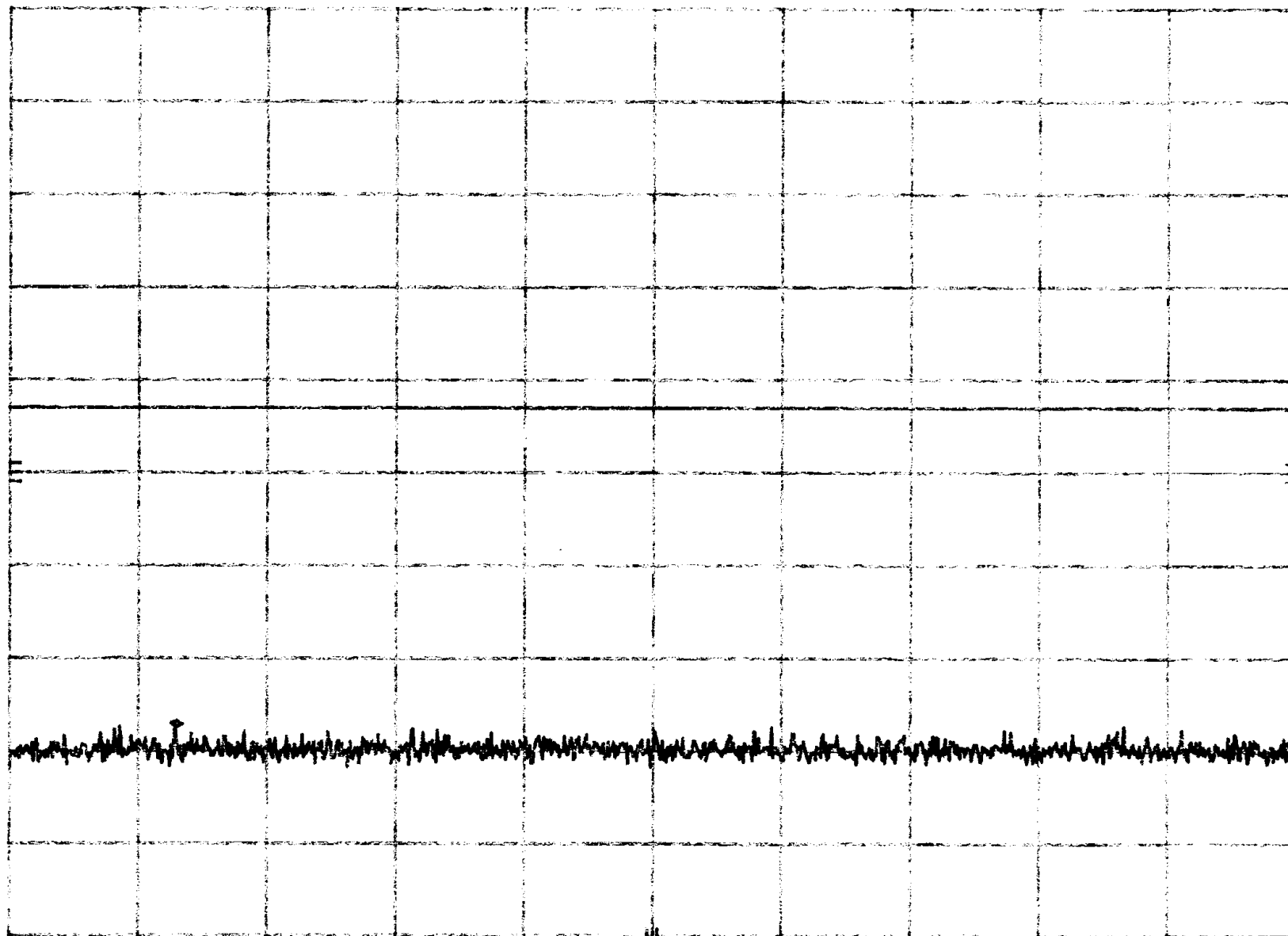
-47.10 dBm

HP REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 KHz (1)

VBW 100 KHz

STOP 30.0 MHz

SWP 21.0 msec

136

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz Tx 4 Rx 9
LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

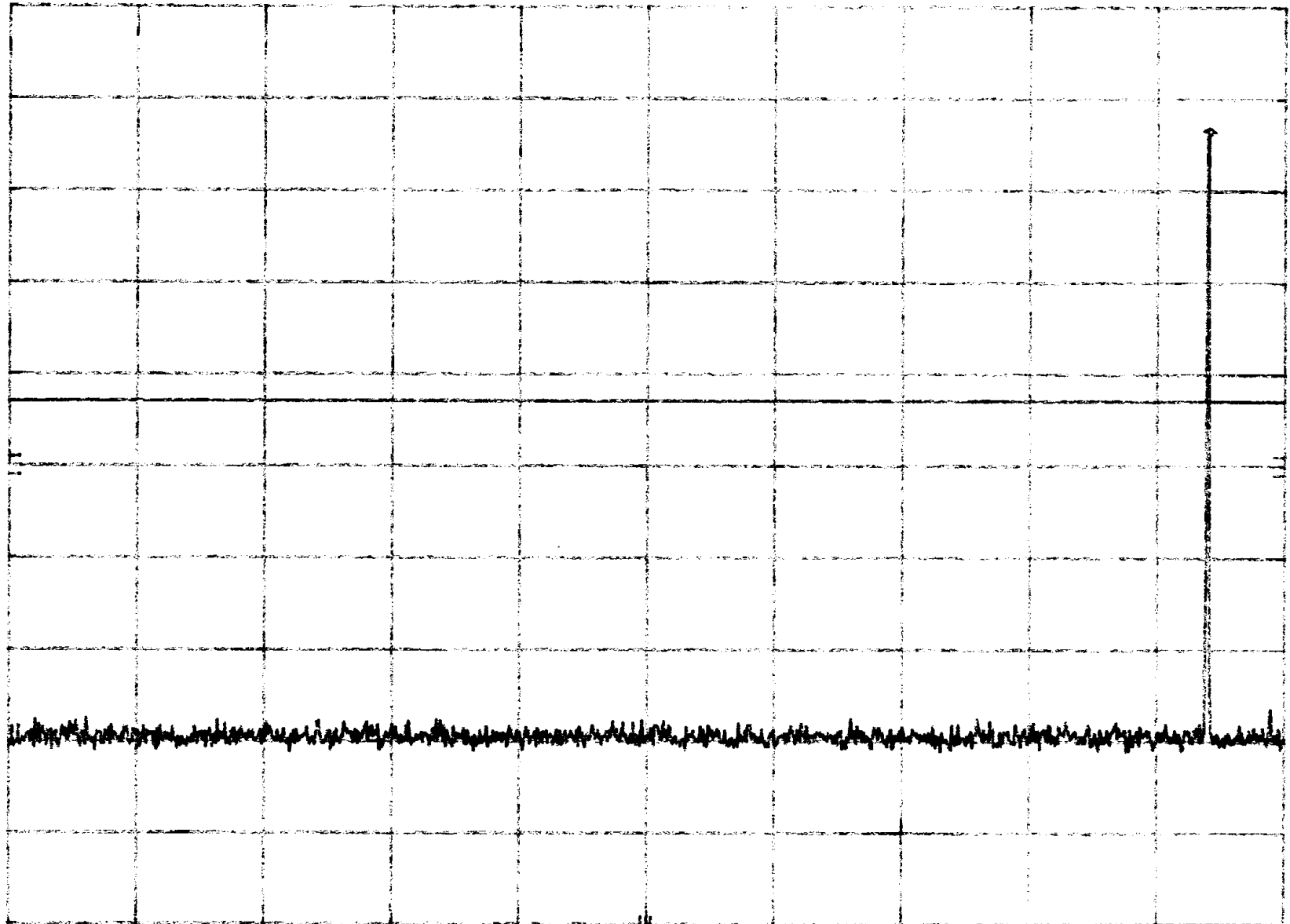
MKR 471.8 MHz
16.50 dBm

HP REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 500 MHz
SWP 353 msec

CONDUCTED SPURIOUS

LOW TRANSMIT 470.025 MHz Tx 4 Rx 8

LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 986.0 MHz

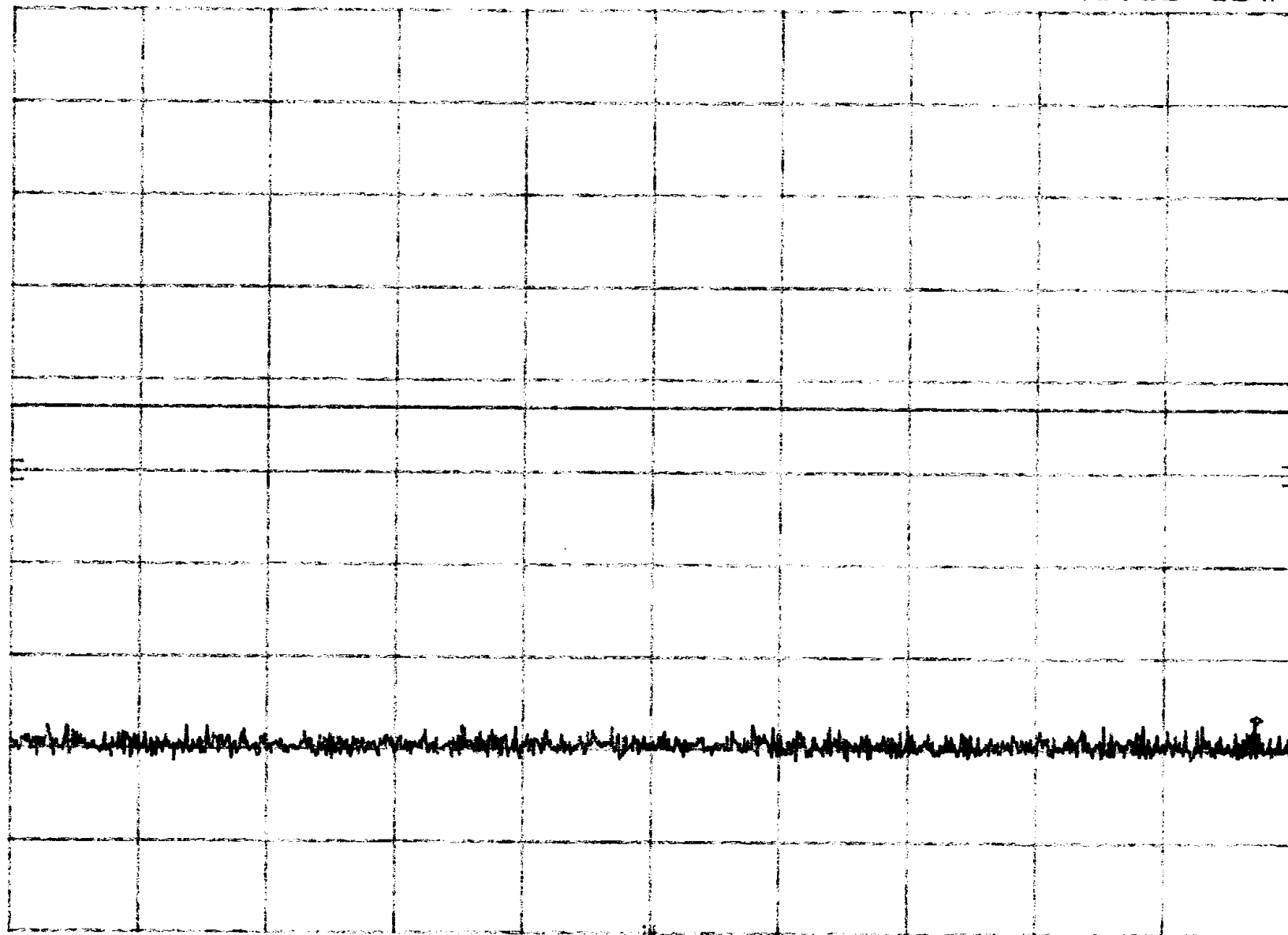
-46.50 dBm

REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 1.000 GHz
SWP 375 msec

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz T4 R28

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

LOW POWER SIN 104

MKR 1.721 GHz

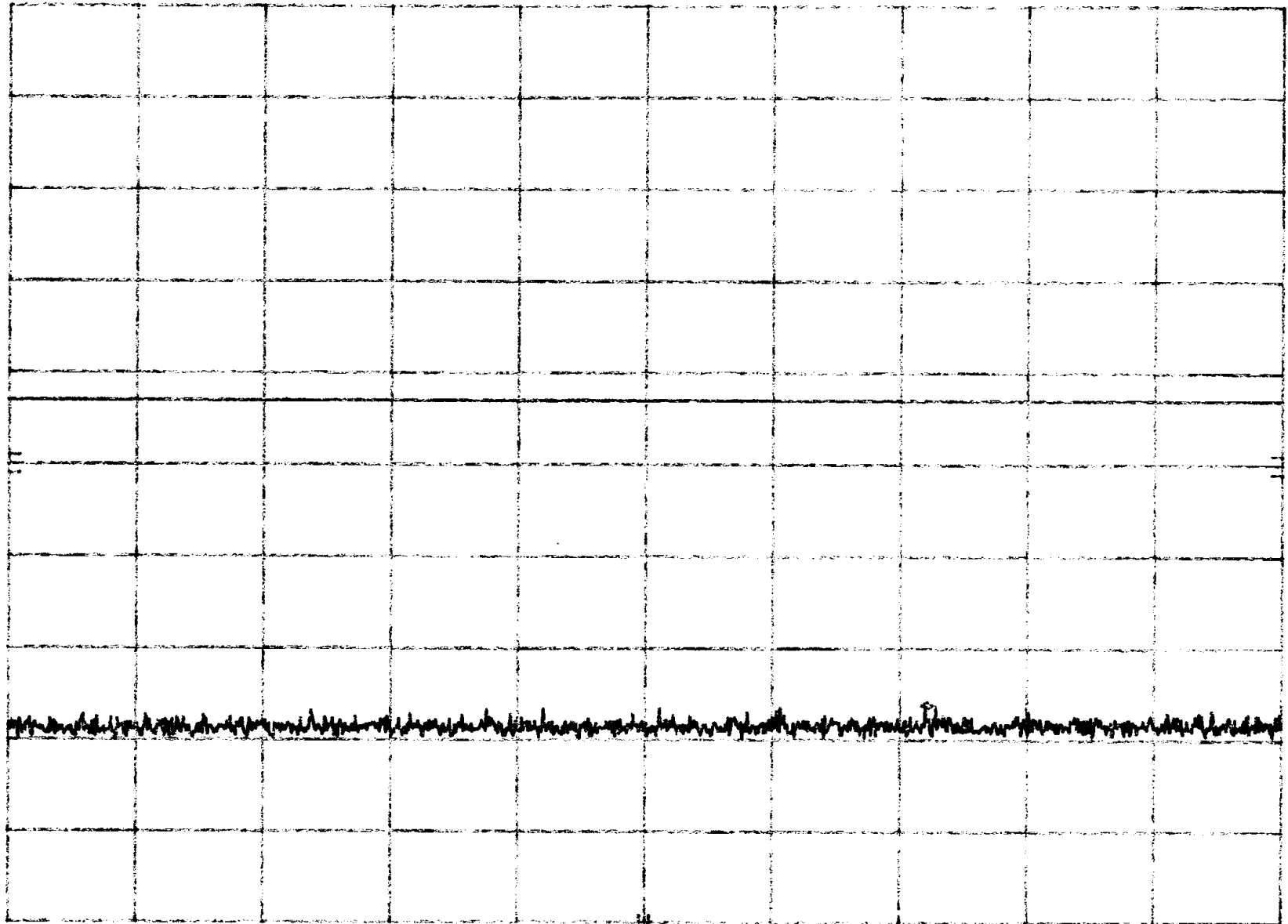
HP REF 30.0 dBm ATTN 40 dB

-46.20 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

STOP 2.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

SWP 750 msec

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz Tx1 Rx3
LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

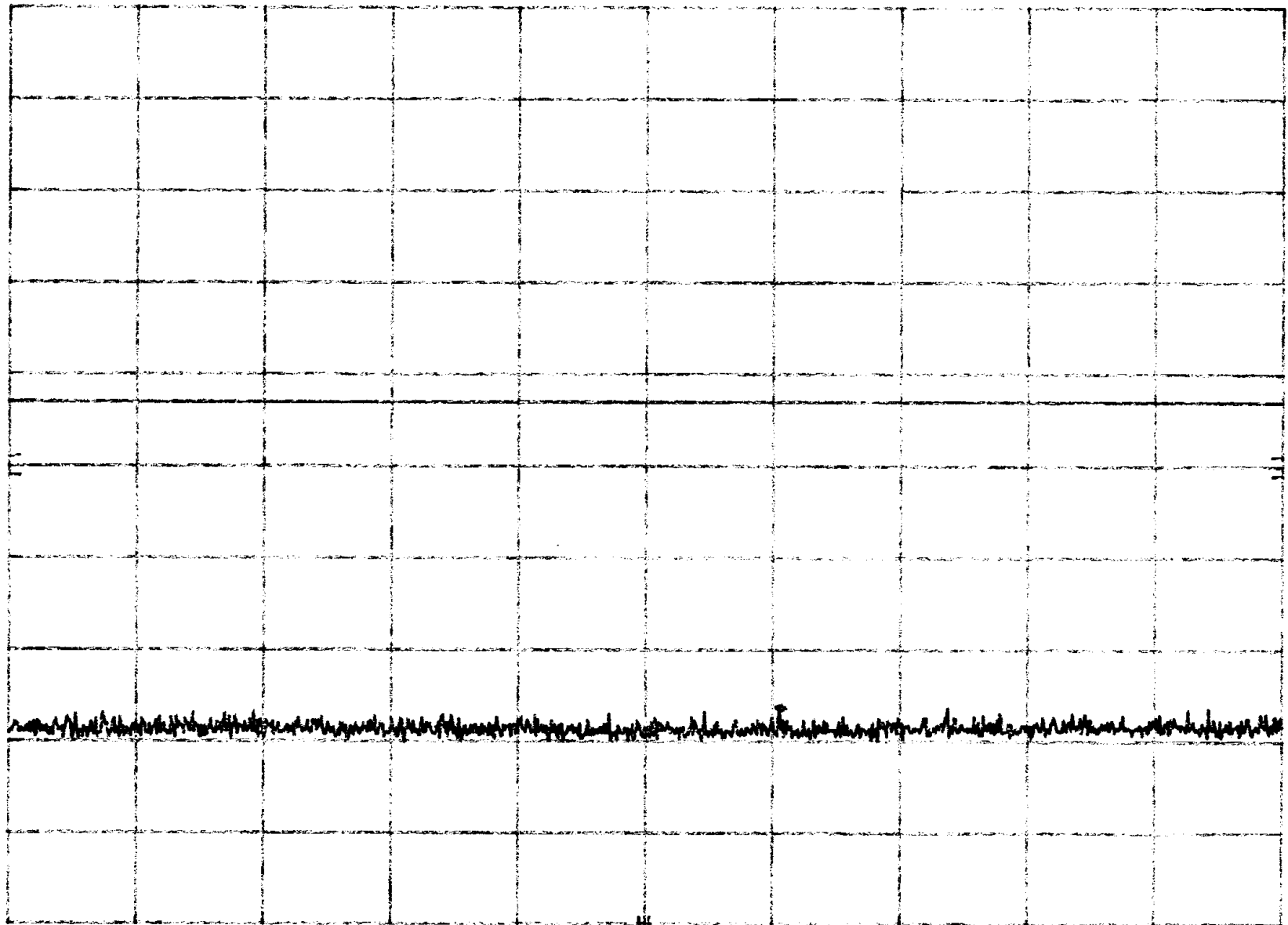
MKR 3.818 GHz
-46.30 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 5.00 GHz

SWP 2.25 sec

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz Tx4 Rx8

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

LOW POWER 5W 104

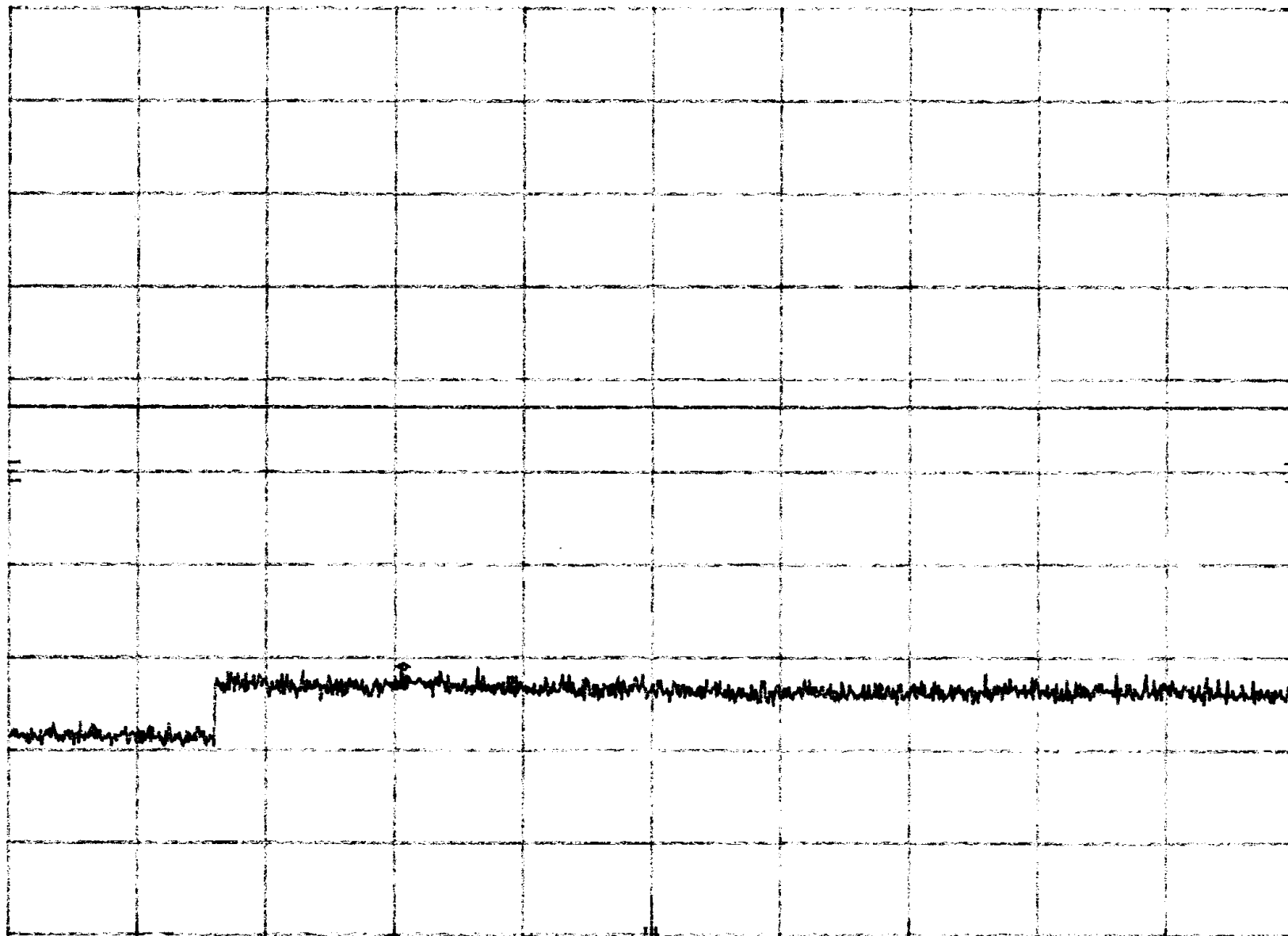
MKR 6.530 GHz
-41.00 dBm

HP REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 KHz (1)

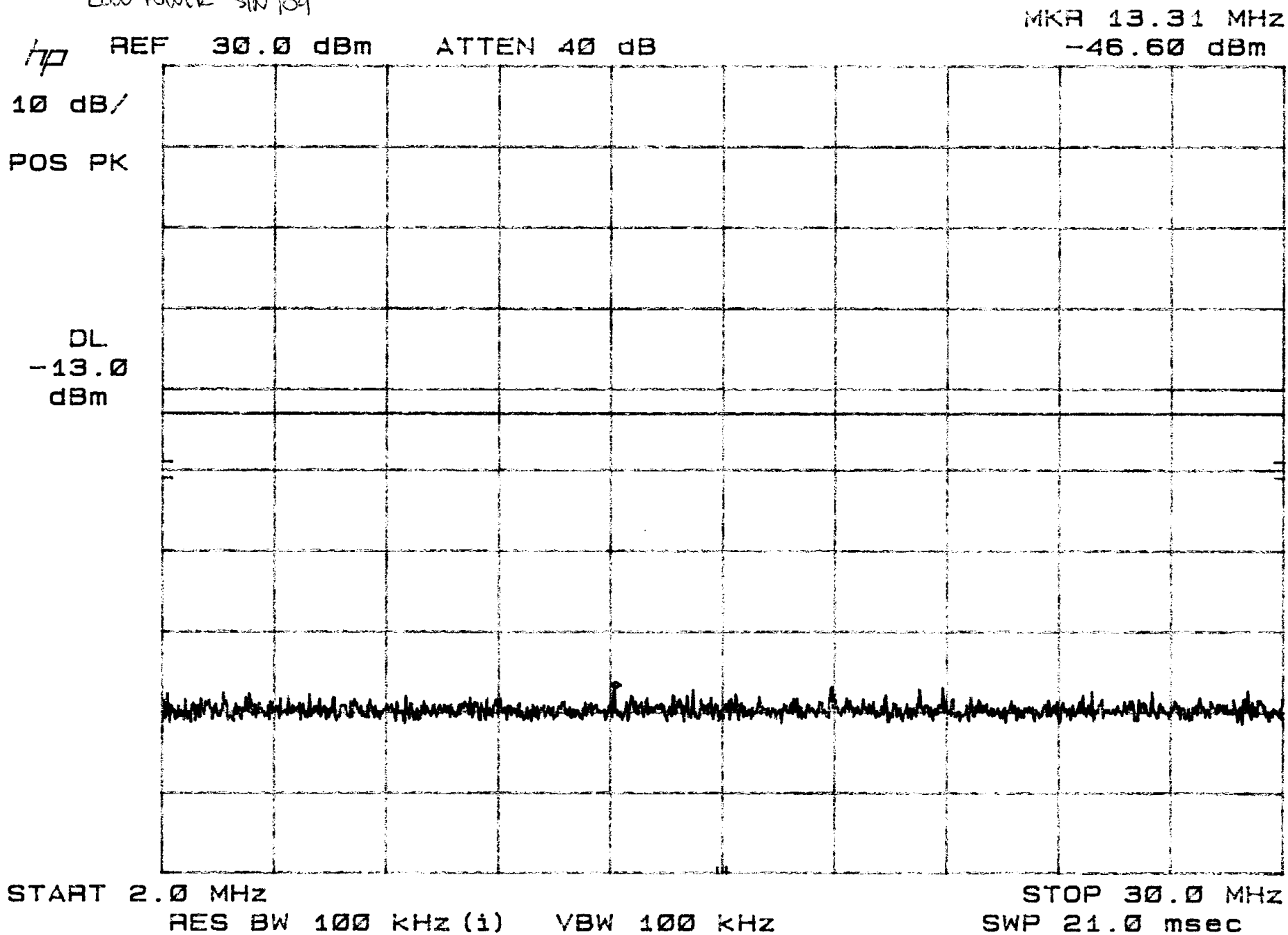
VBW 100 KHz

STOP 10.00 GHz

SWP 3.75 sec

CONDUCTED SPURIOUS
MID TRANSMIT 495 MHz Tx4 Rx3
LOW POWER S/N 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS



CONDUCTED SPURIOUS
MID TRANSMIT 495 MHz Tx4 Rx3

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

LOW POWER SIN 104

MKA 486.8 MHz

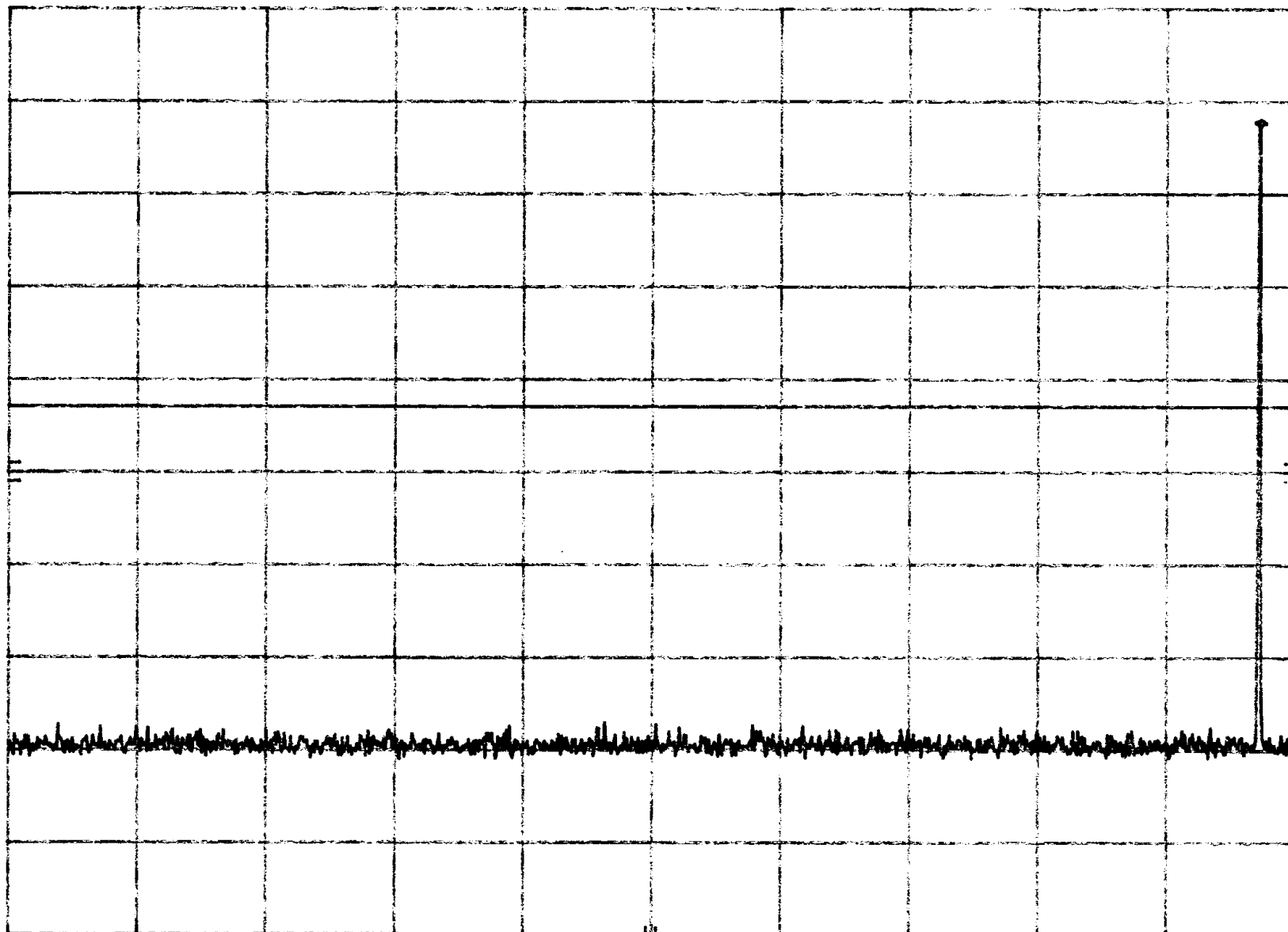
hp REF 30.0 dBm ATTEN 40 dB

17.70 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 500 MHz

SWP 353 msec

CONDUCTED SPURIOUS
MID TRANSMIT 435 MHz Tx4 Rx8

LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

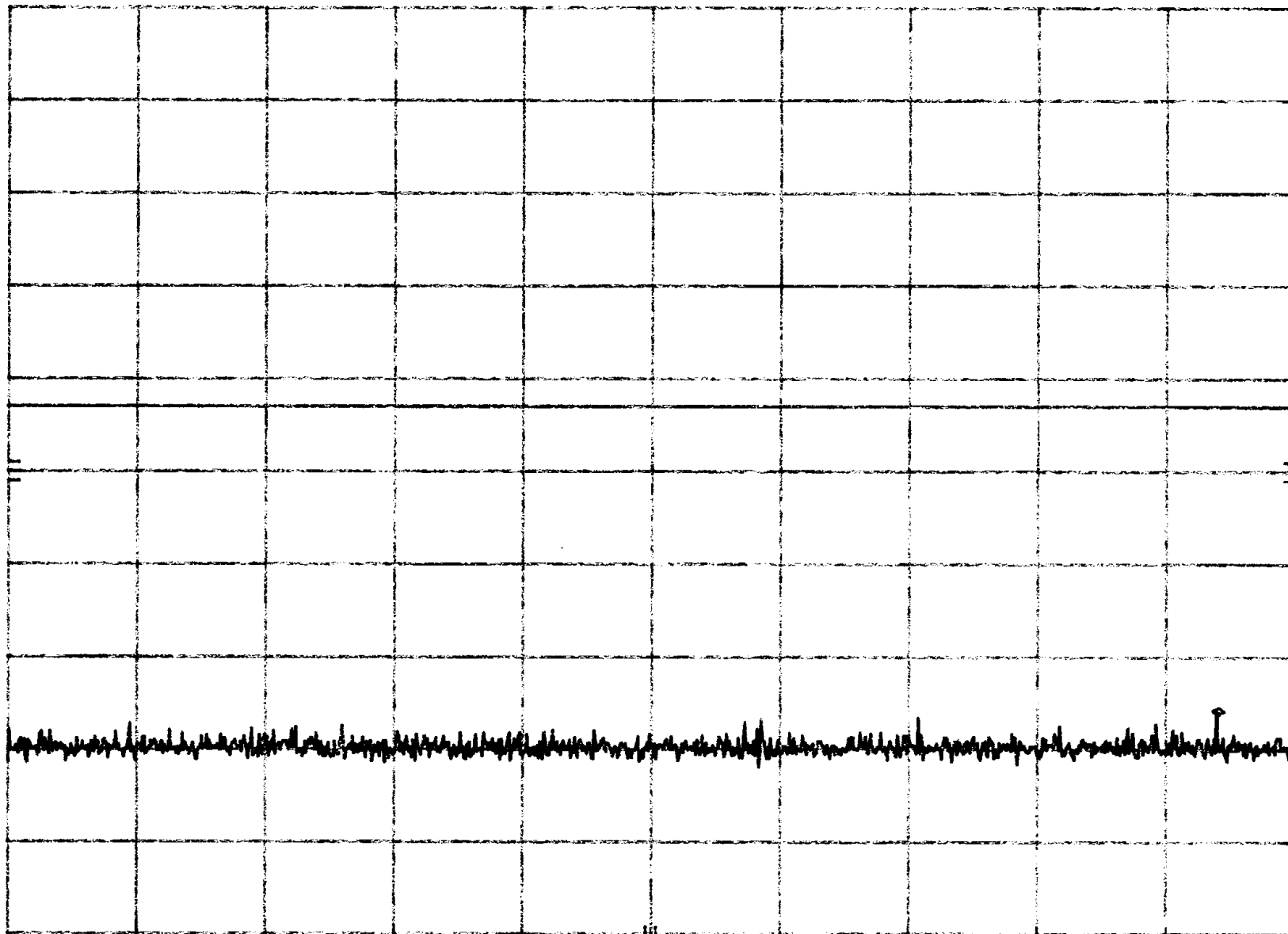
MKA 970.0 MHz
-45.80 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

RES BW 100 KHz (1)

VBW 100 KHz

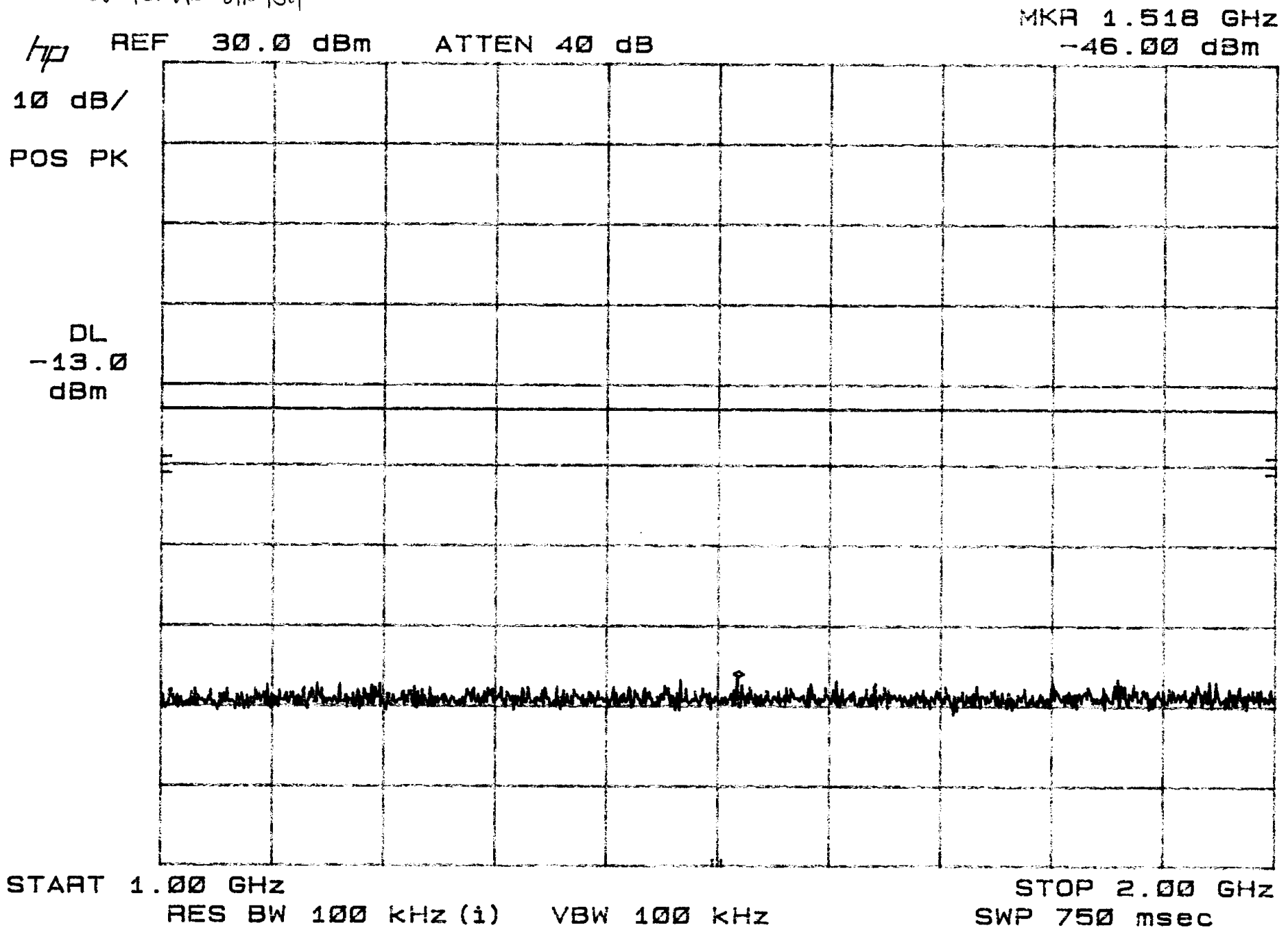
STOP 1.000 GHz

SWP 375 msec

144

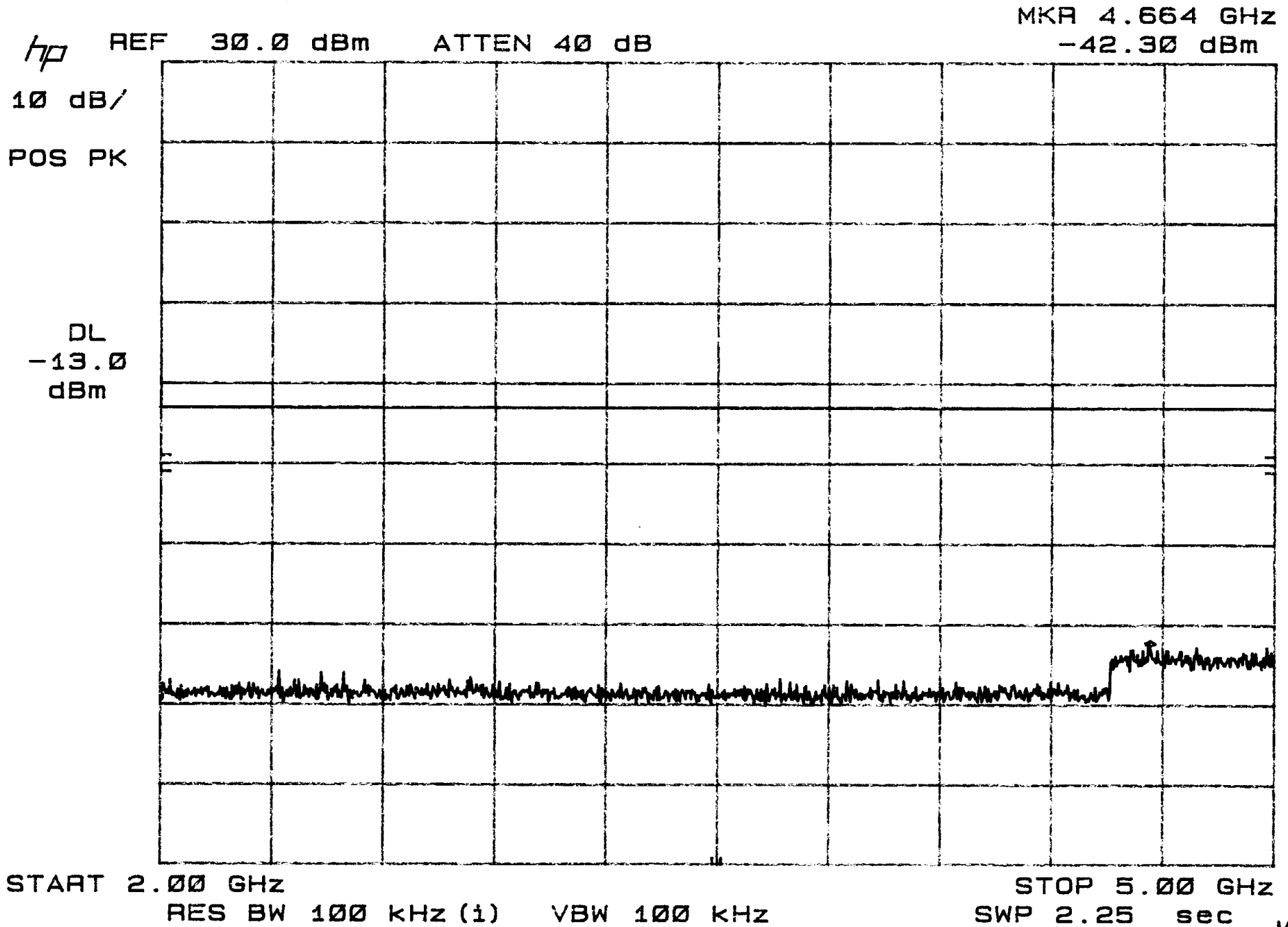
CONDUCTED SPURIOUS
MID TRANSMIT 485 MHz - Tx 4 Ex 8
LOW POWER SIN 10V

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS



CONDUCTED SPURIOUS
MID TRANSMIT 495 MHz Tx4 Rx8
LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS



CONDUCTED SPURIOUS
MIF TRANSMIT 485 MHz TX4 RX8
LOW POWER SN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

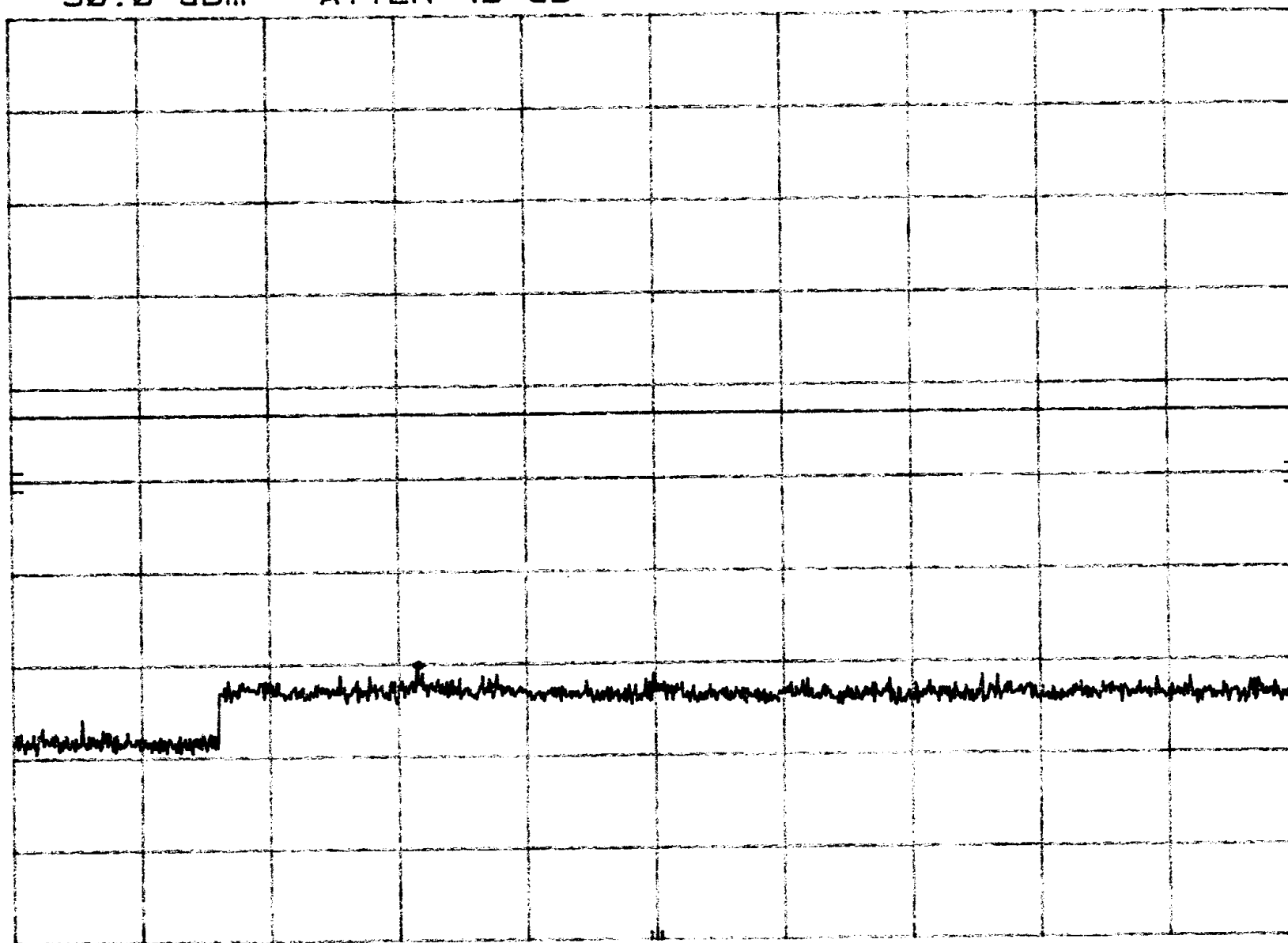
MKA 6.575 GHz
-40.10 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 10.00 GHz
SWP 3.75 sec

CONDUCTED SPURIOUS

HIGH TRANSMIT 500MHz Tx4 Rx8

LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 21.25 MHz

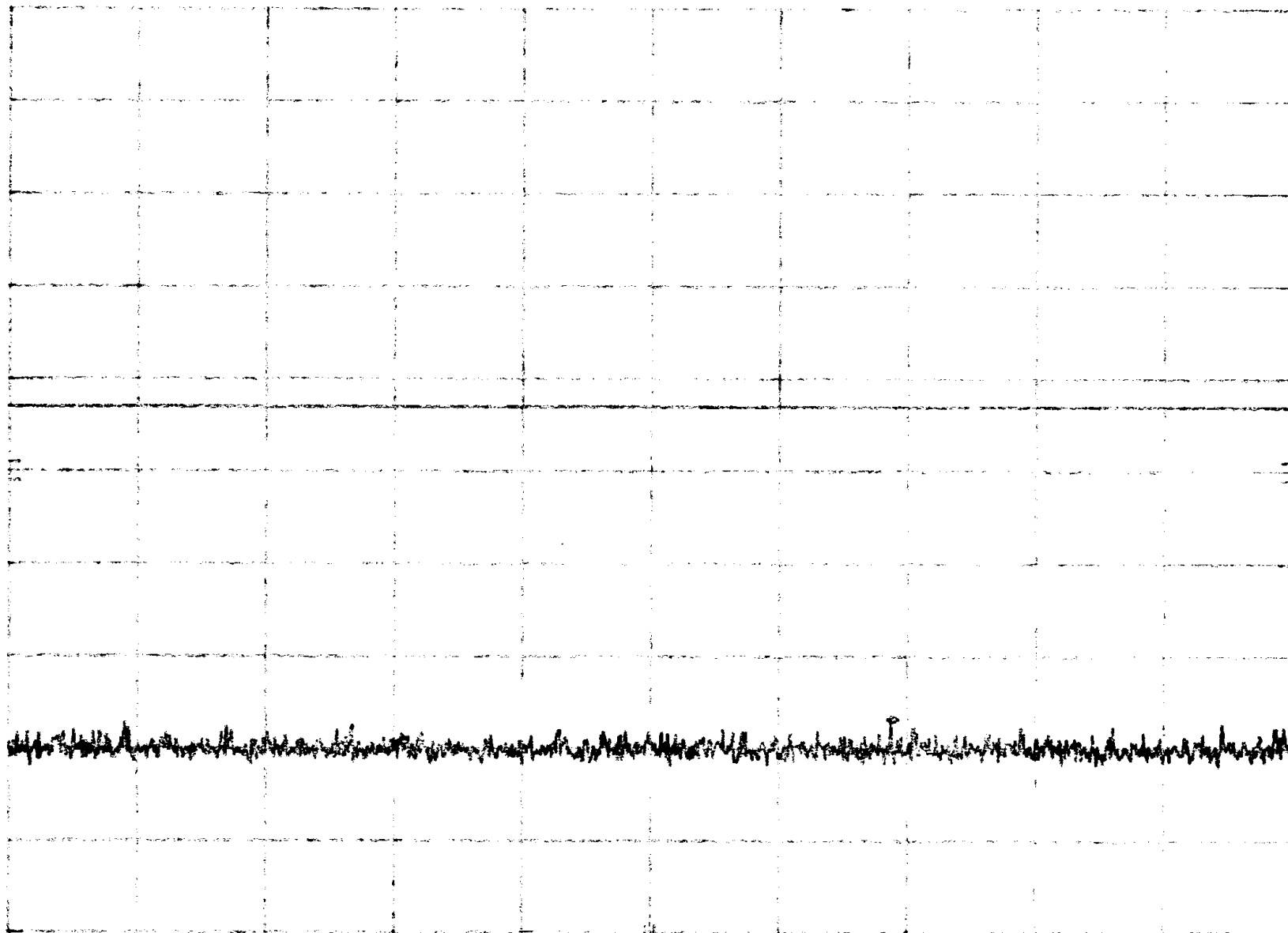
-46.80 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 30.0 MHz

SWP 21.0 msec

148

CONDUCTED SPURIOUS

HIGH TRANSMIT 300MHz 14928

LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MFR 309.0 MHz

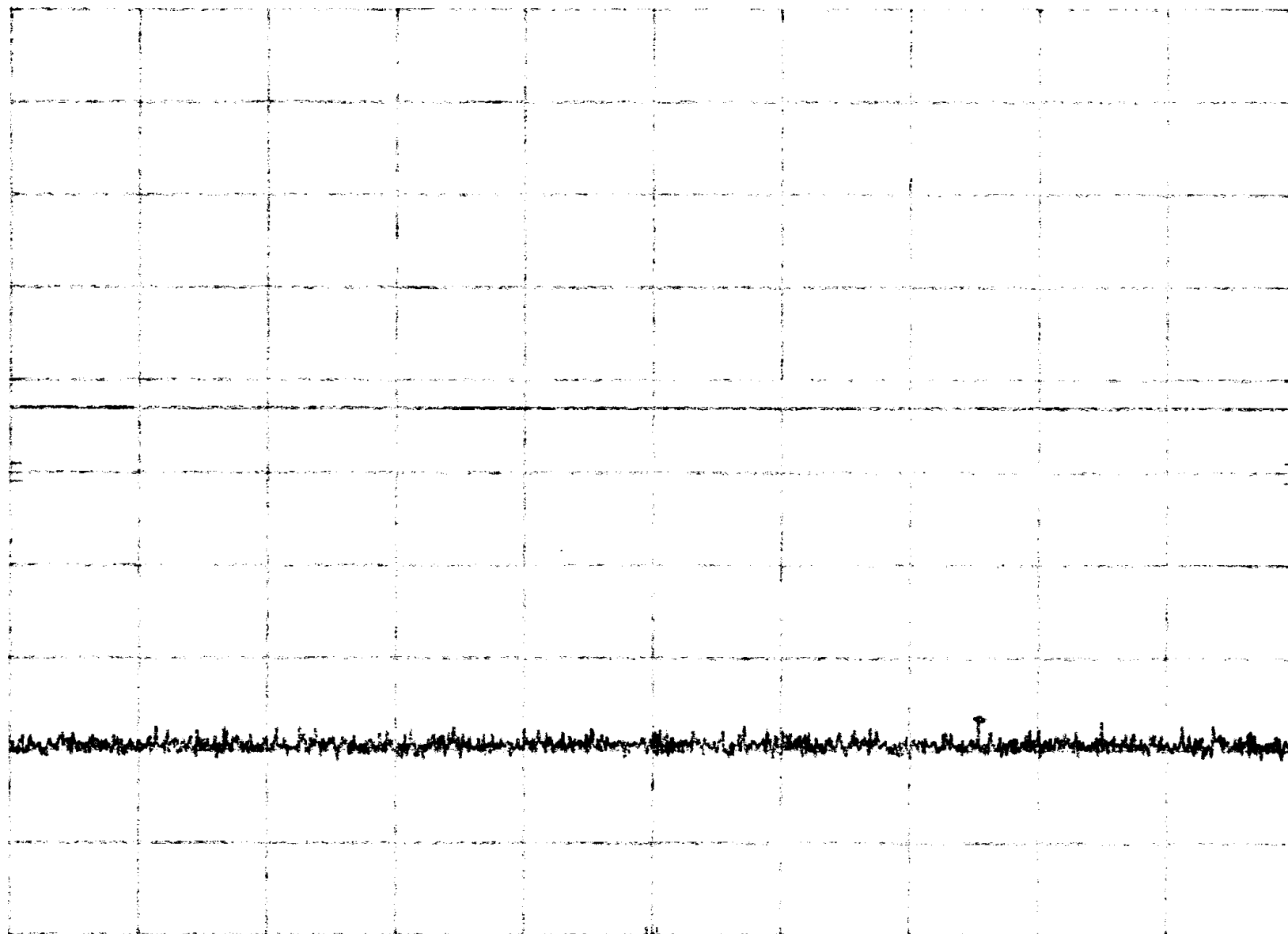
-46.60 dBm

REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 400 MHz

SWP 278 msec

149

CONDUCTED SPURIOUS

HIGH TRANSMIT 500MHz Tx 4Rx8

LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKA 500.2 MHz

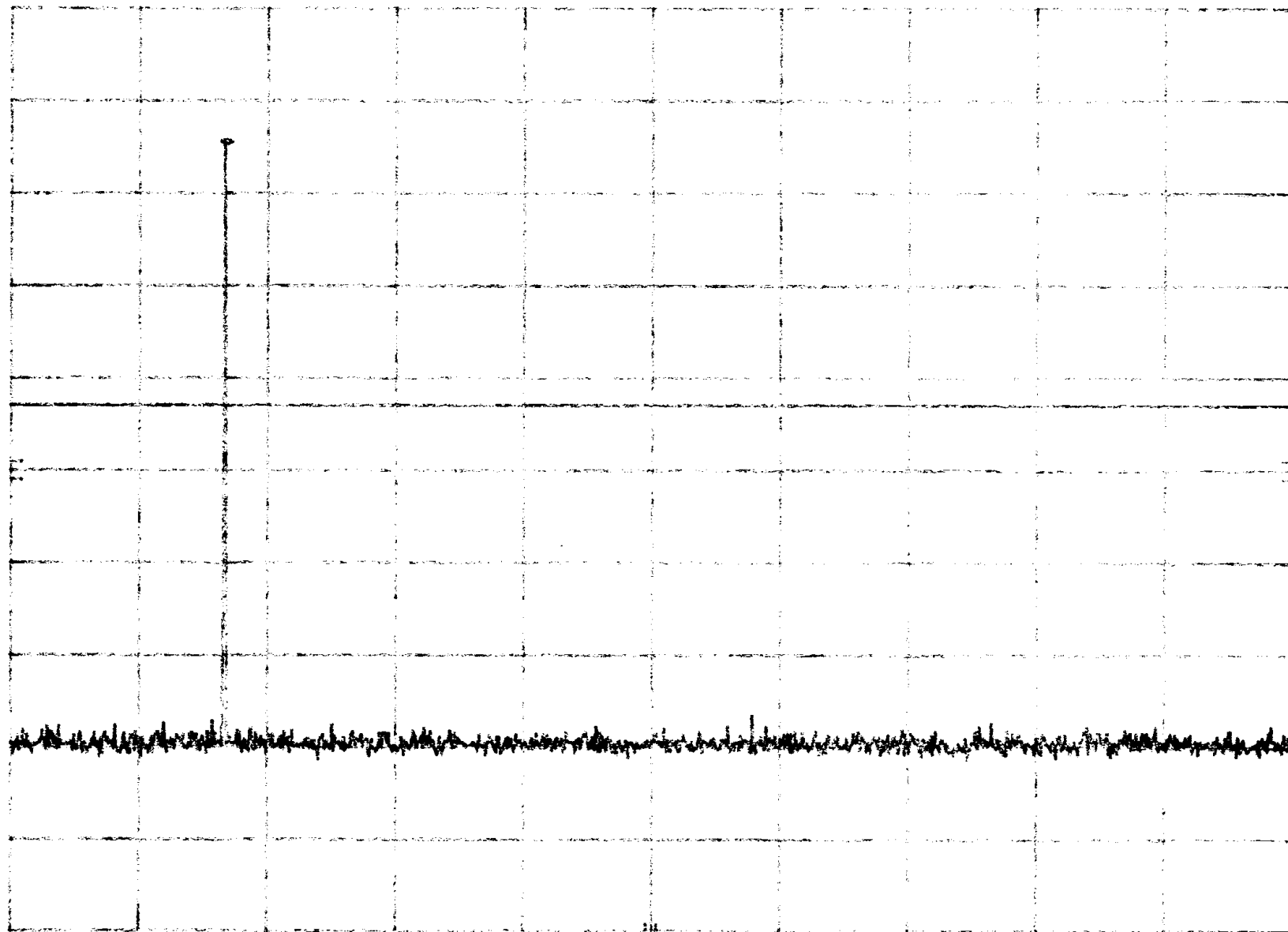
15.60 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 400 MHz

RES BW 100 KHz (1) VBN 100 KHz

STOP 1.000 GHz

SWP 450 msec

150

CONDUCTED SPURIOUS

HIGH TRANSMIT 500MHz Tx 4 Rx 8

LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 1.806 GHz

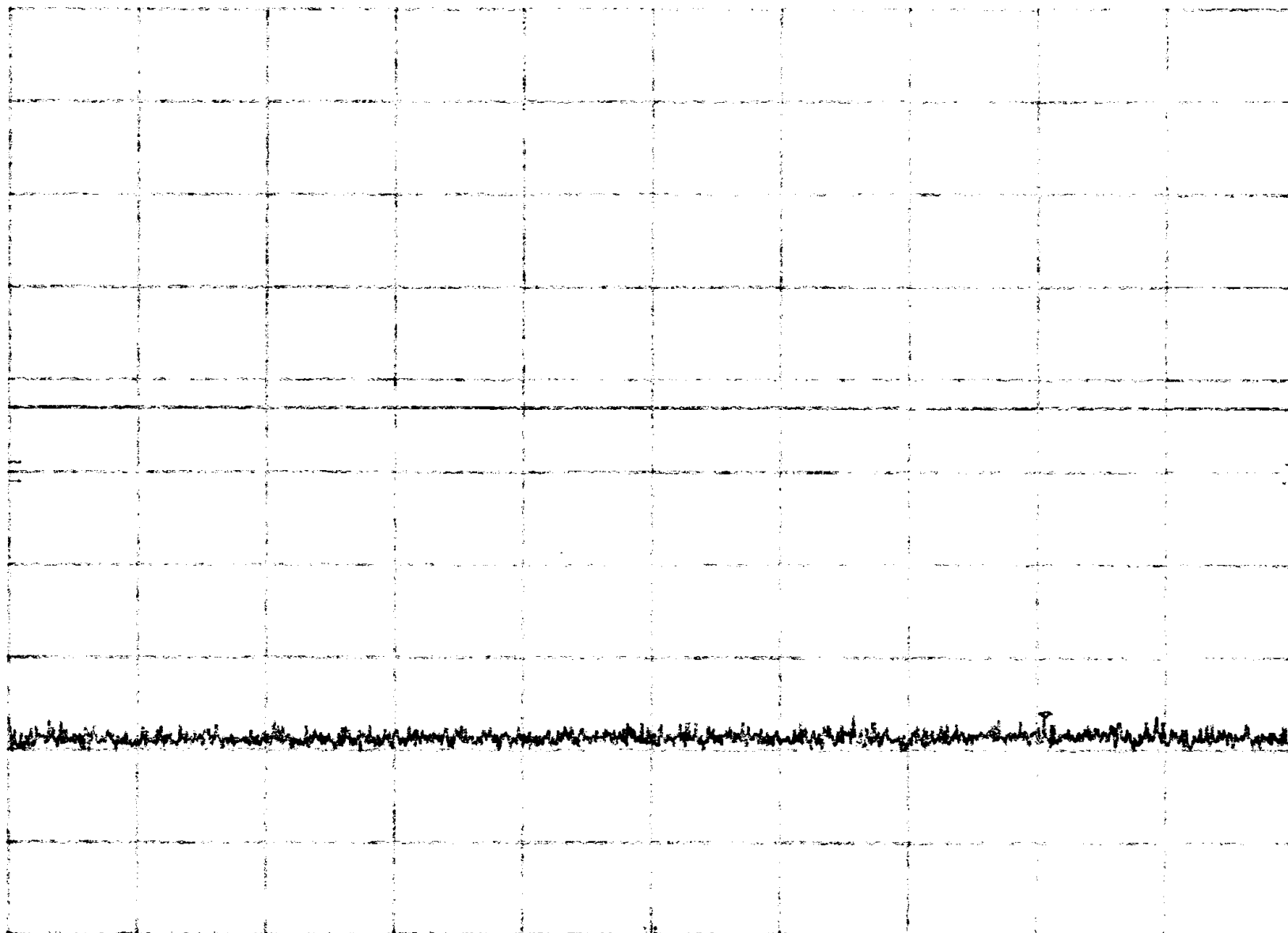
-46.00 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 2.00 GHz
SWP 750 msec

CONDUCTED SPURIOUS
HIGH TRANSMIT 500MHz Tx 4Rx

LOW POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 2.531 GHz

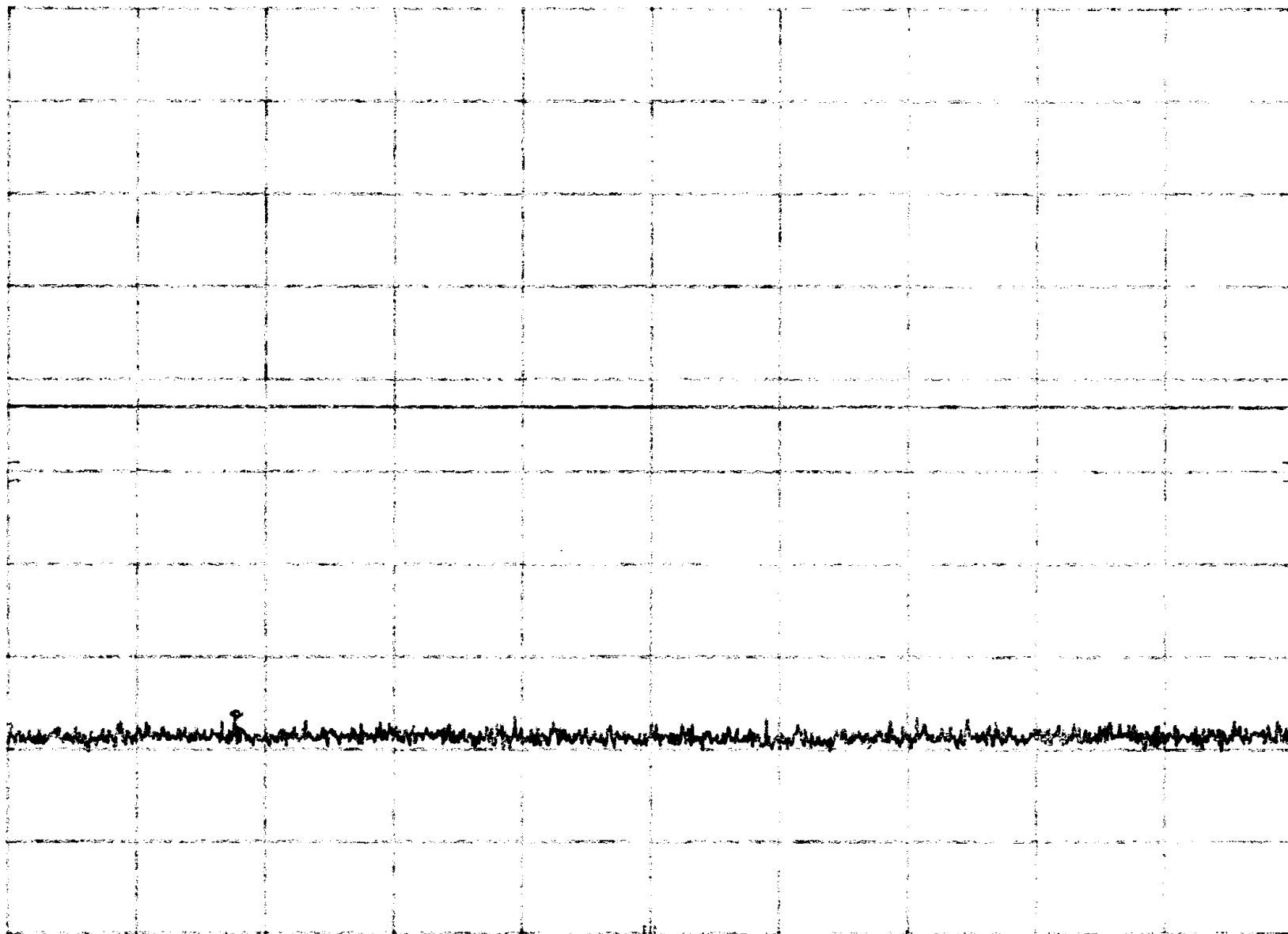
-46.20 dBm

HP REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 5.00 GHz

SWP 2.25 sec

152

CONDUCTED SPURIOUS
HIGH TRANSMIT 500 MHz Tx 4Rx8

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

LOW POWER SIN 134

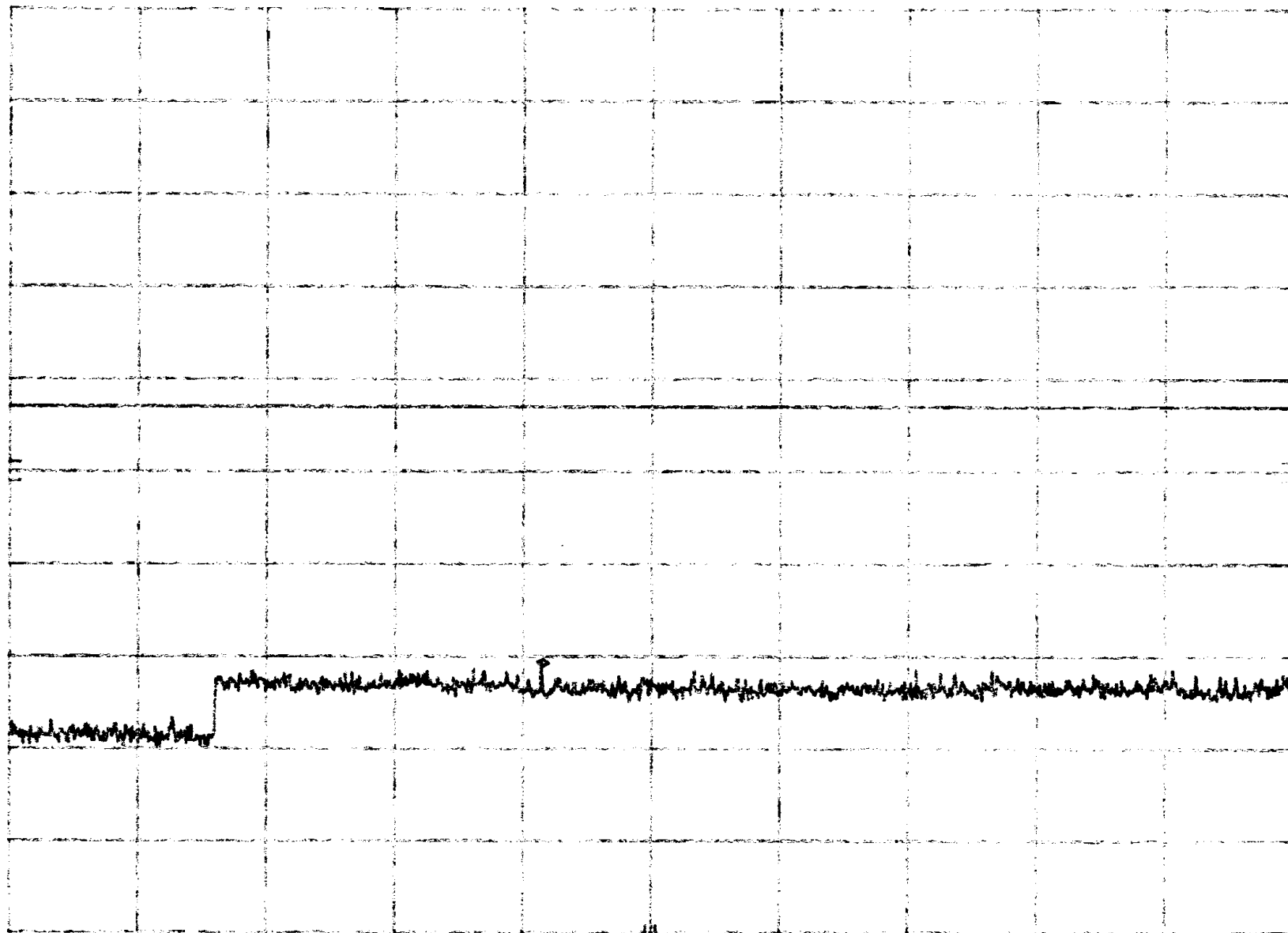
MKR 7.075 GHz
-40.70 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 10.00 GHz
SWP 3.75 sec

153

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz Tx 4 Rx 8

HIGH POWER S/N 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 17.12 MHz

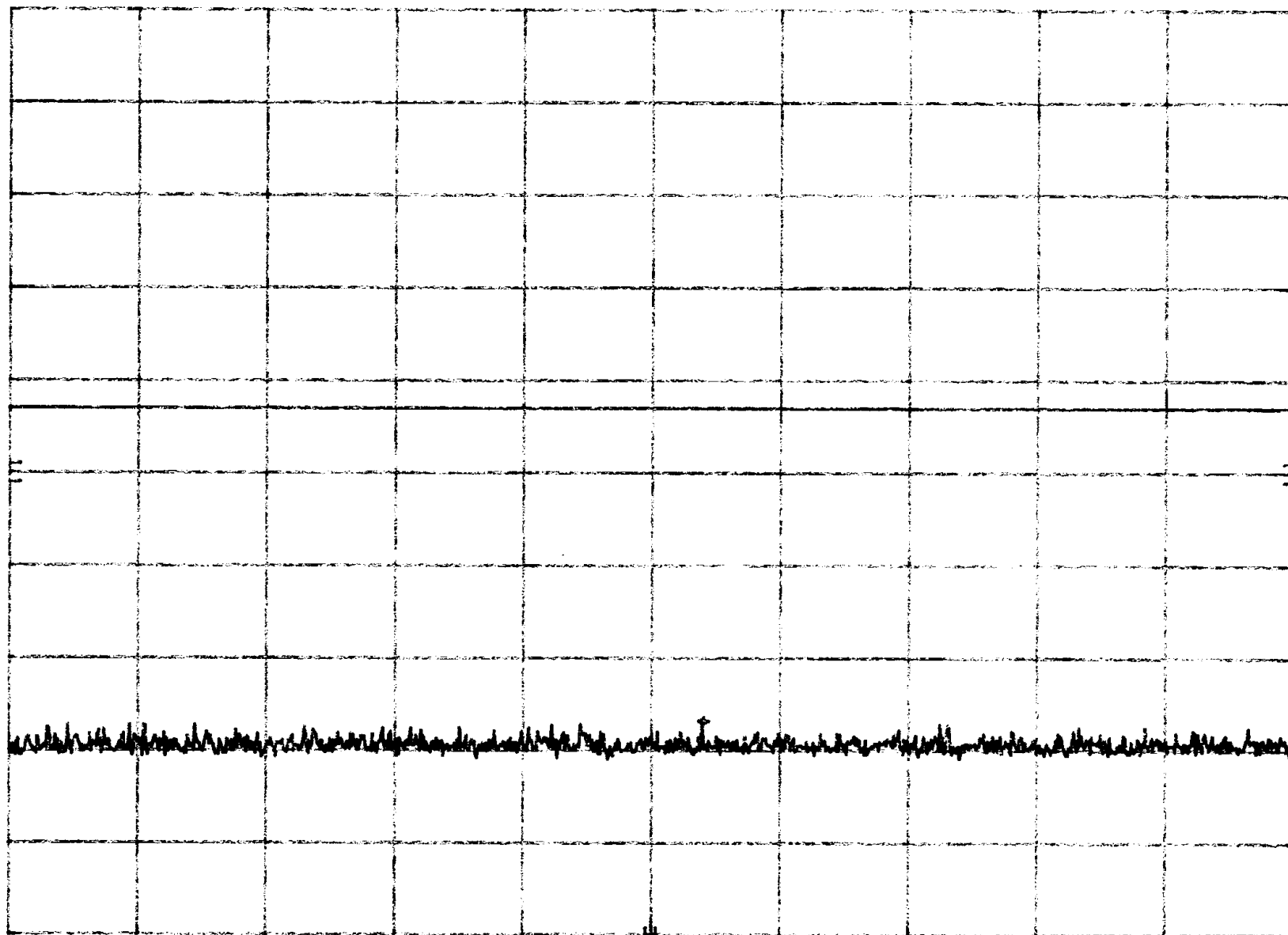
-46.80 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 30.0 MHz

SWP 21.0 msec

154

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz TX 1 & 8
HIGH POWER S/N 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

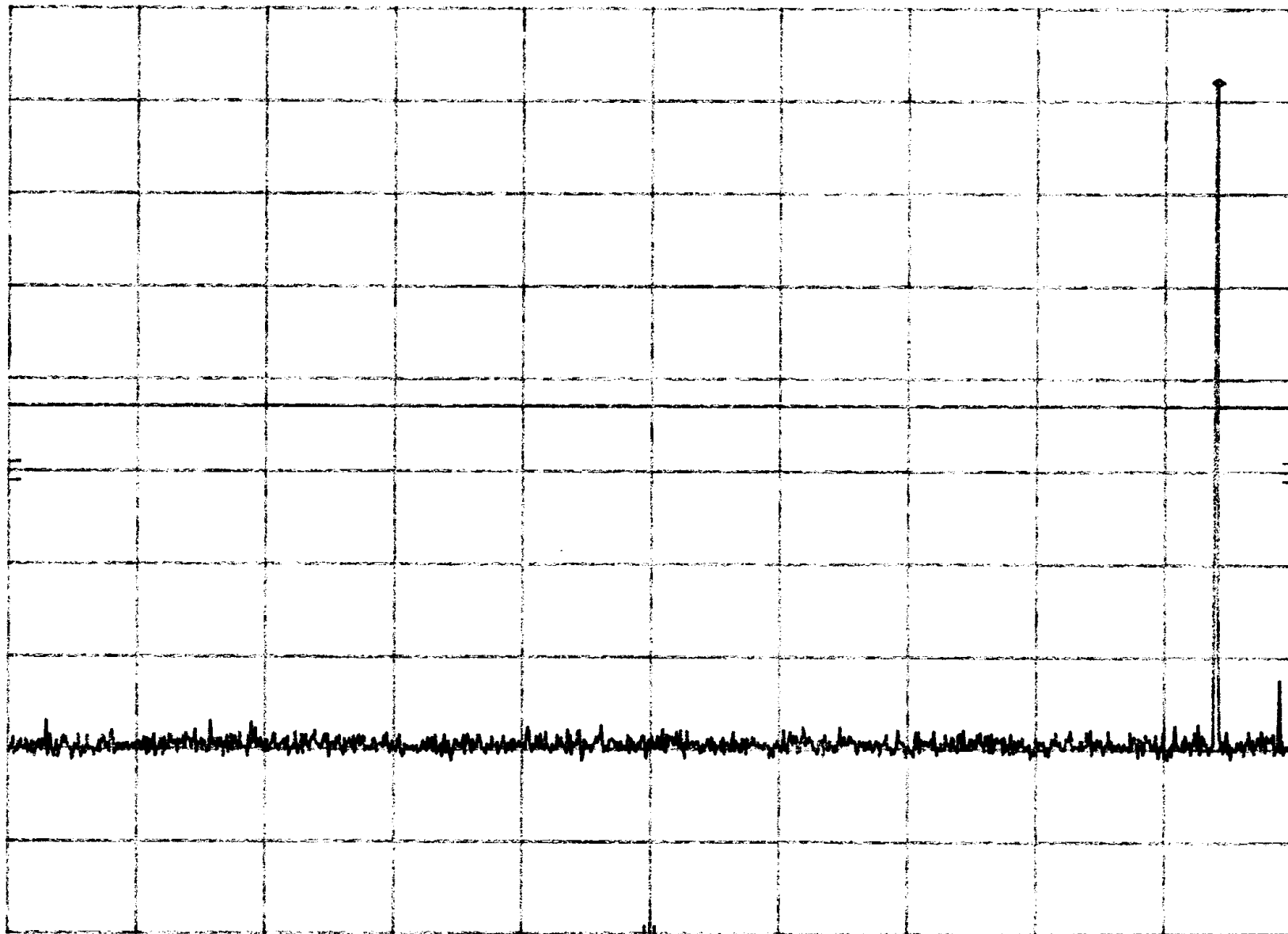
MKR 471.8 MHz
22.10 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 500 MHz

SWP 353 msec

155

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz Tx4 Rx3

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

HIGH POWER SIN 104

MKR 940.0 MHz

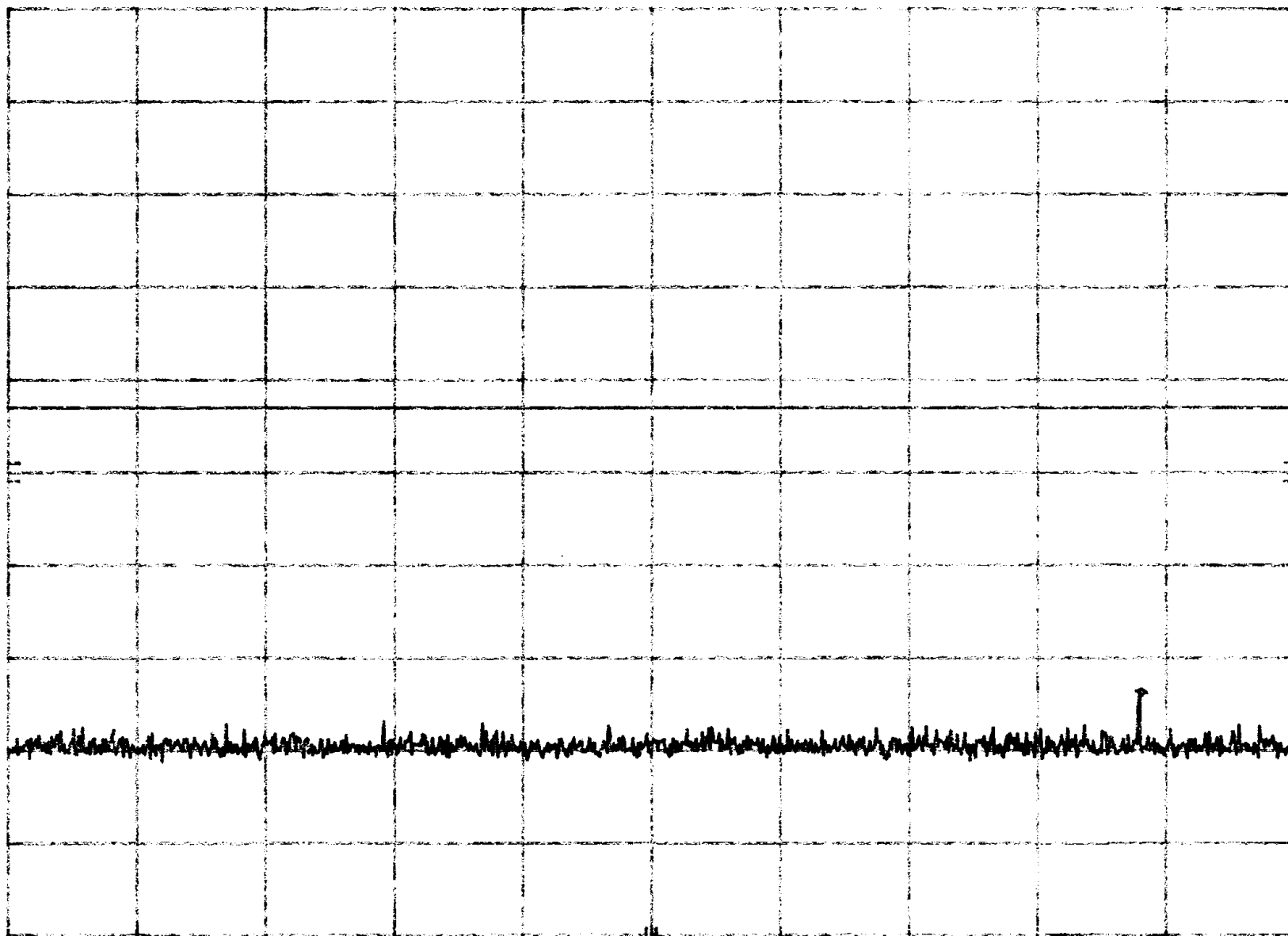
HP REF 30.0 dBm ATTN 40 dB

-43.70 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 500 MHz

STOP 1.000 GHz

RES BW 100 kHz (1) VBW 100 kHz

SWP 375 msec

CONDUCTED SPURIOUS
LOW TRANSMIT 475.025 MHz Tx 4 PaS

HIGH POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 1.636 GHz

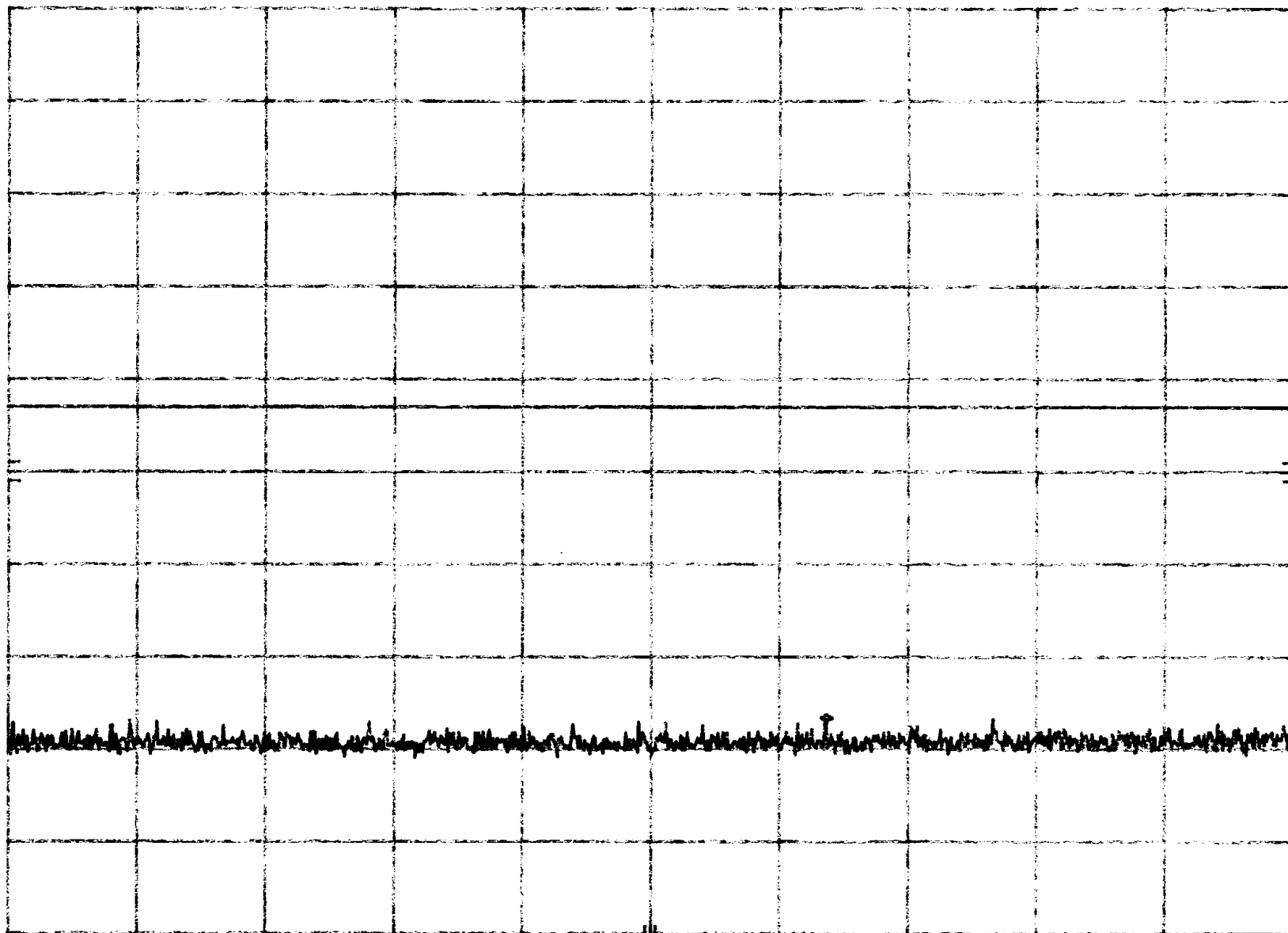
-46.60 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 2.00 GHz
SWP 750 msec

157

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz Tx & Rx

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

HIGH POWER SIN 104

MKR 2.363 GHz

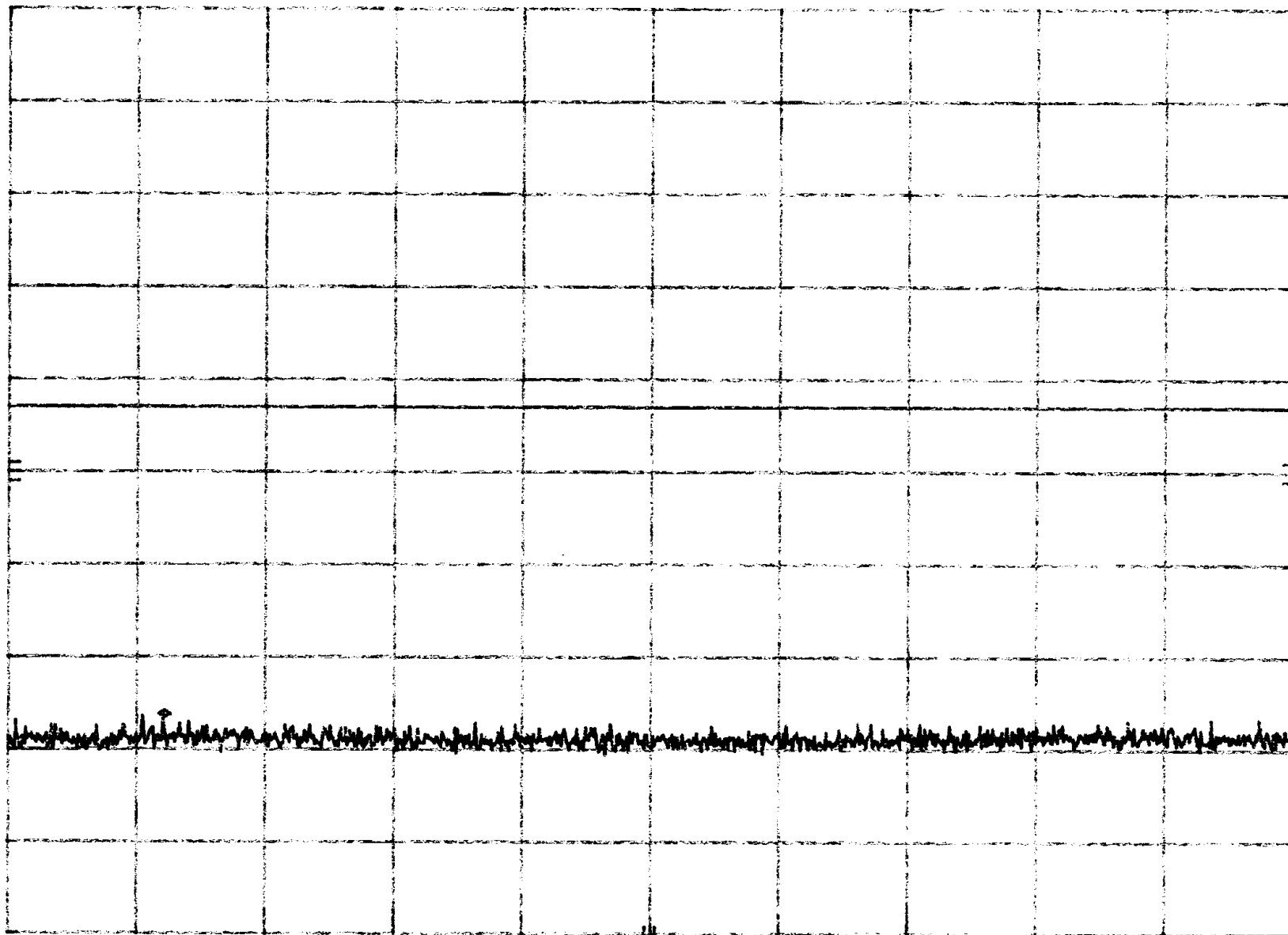
hp REF 30.0 dBm ATTN 40 dB

-46.20 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 5.00 GHz

SWP 2.25 sec

CONDUCTED SPURIOUS
LOW TRANSMIT 470.025 MHz Tx4 Rx8

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

HIGH POWER SIN 104

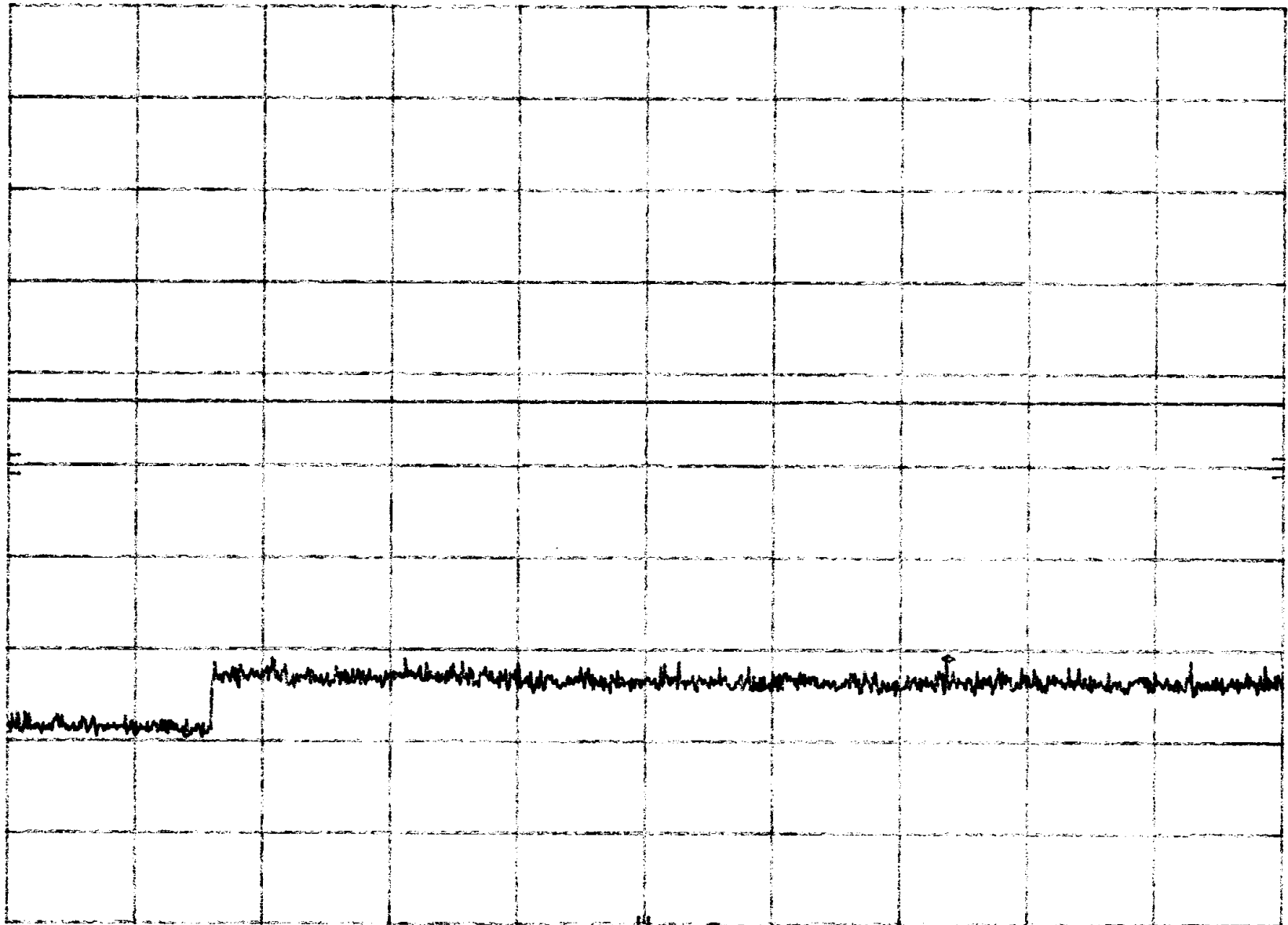
MKR 8.685 GHz
-40.90 dBm

40 REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



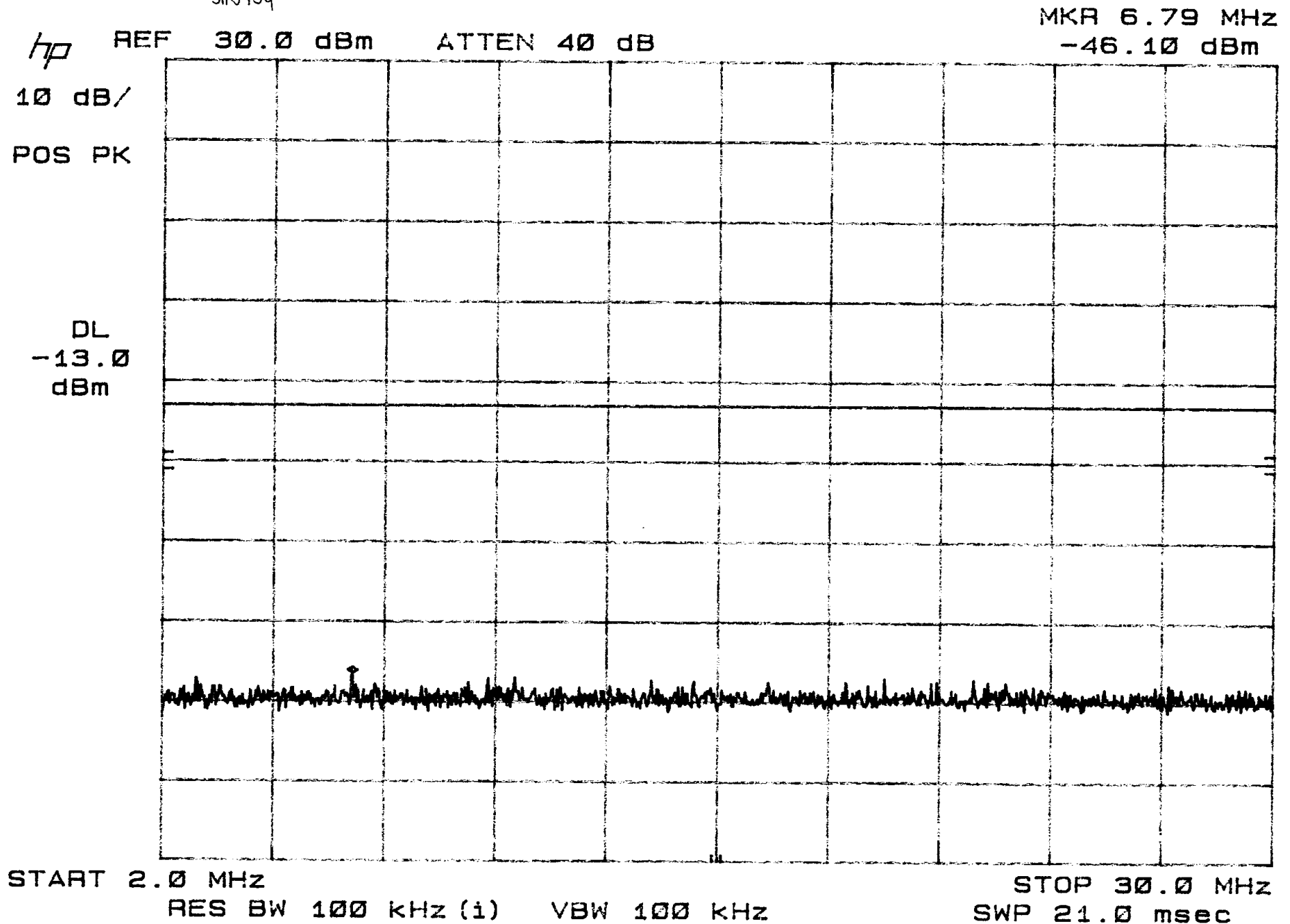
START 5.00 GHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 10.00 GHz
SWP 3.75 sec

CONDUCTED SPURIOUS
MID TRANSMIT 435 MHz Tx 8-
HIGH POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS



CONDUCTED SPURIOUS
MID TRANSMIT 485 MHz Tx 4 R 8.

HIGH POWER SW104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

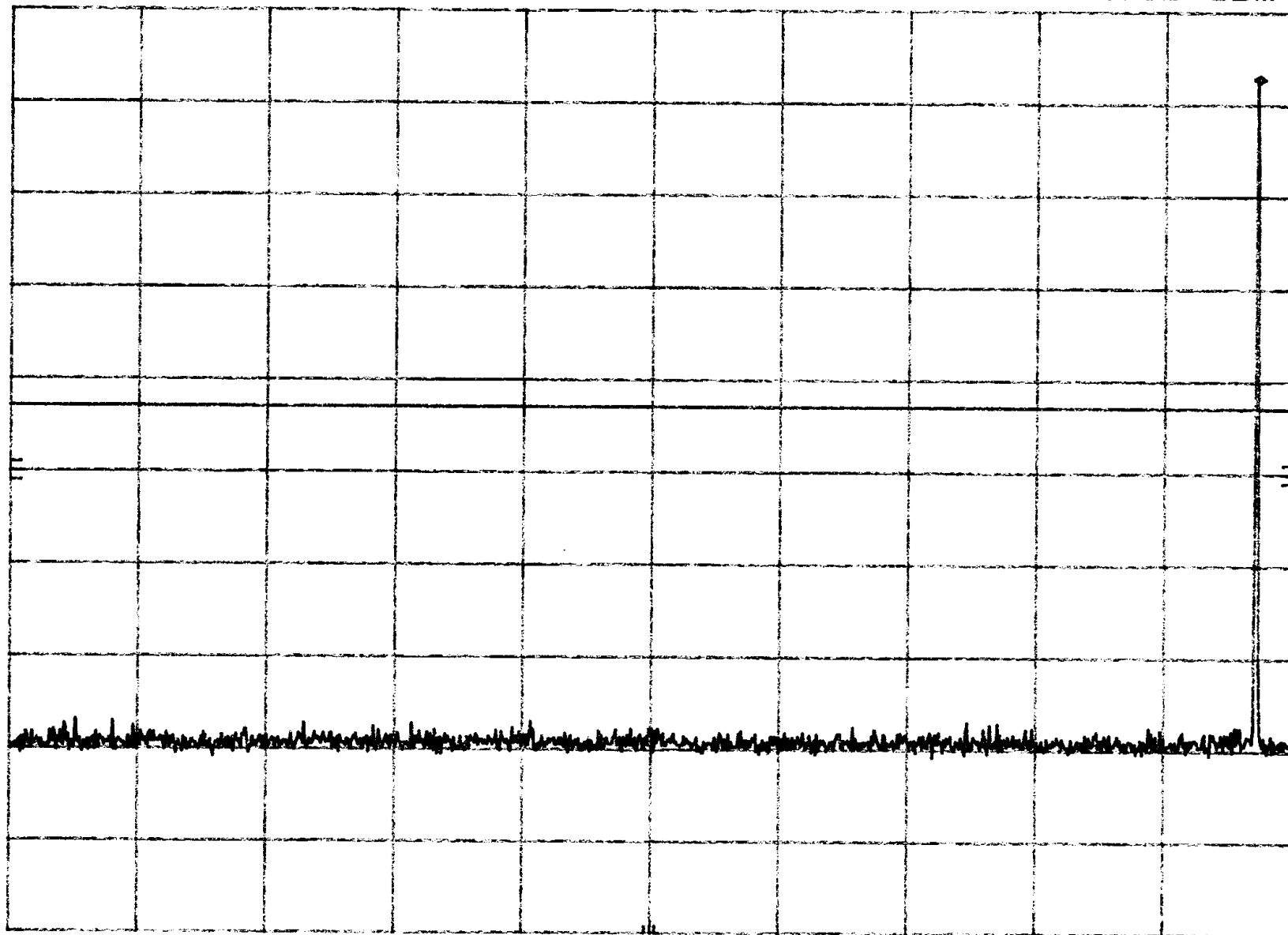
MKR 486.8 MHz
22.80 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



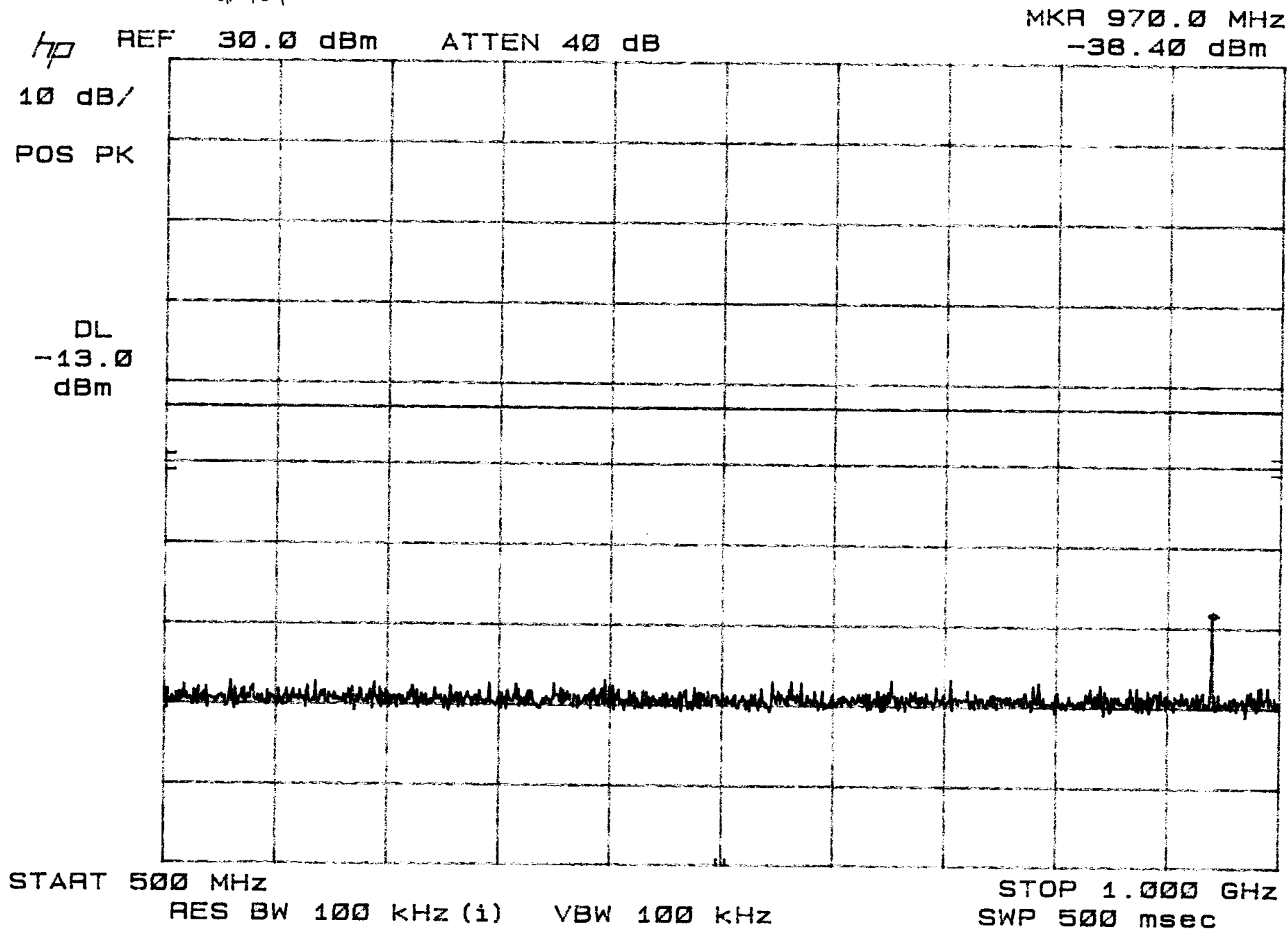
START 30 MHz

RES BW 100 kHz (i) VBW 100 kHz

STOP 500 MHz
SWP 500 msec

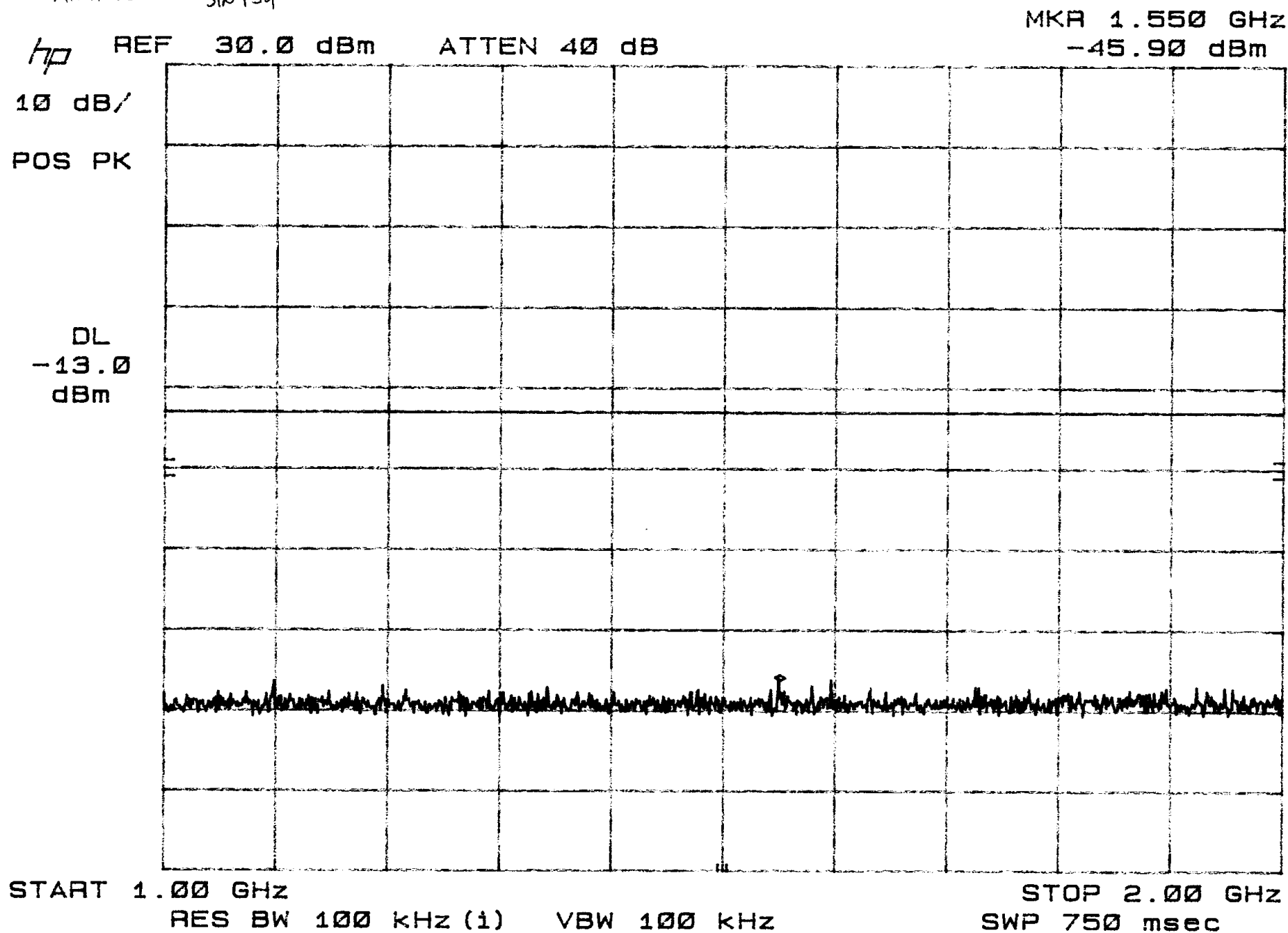
CONDUCTED SPURIOUS
MID TRANSMIT 485 MHz Tx 4 Rx 9.
HIGH POWER SW104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(c)(6)(iii) CONDUCTED SPURIOUS



CONDUCTED SPURIOUS
MID TRANSMIT 435MHz TX4 R&B.
HIGH POWER SNI104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS



CONDUCTED SPURIOUS
MID TRANSMIT 485 MHz Tx4 Rx18-

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

HIGH POWER SIN104

MKR 3.872 GHz

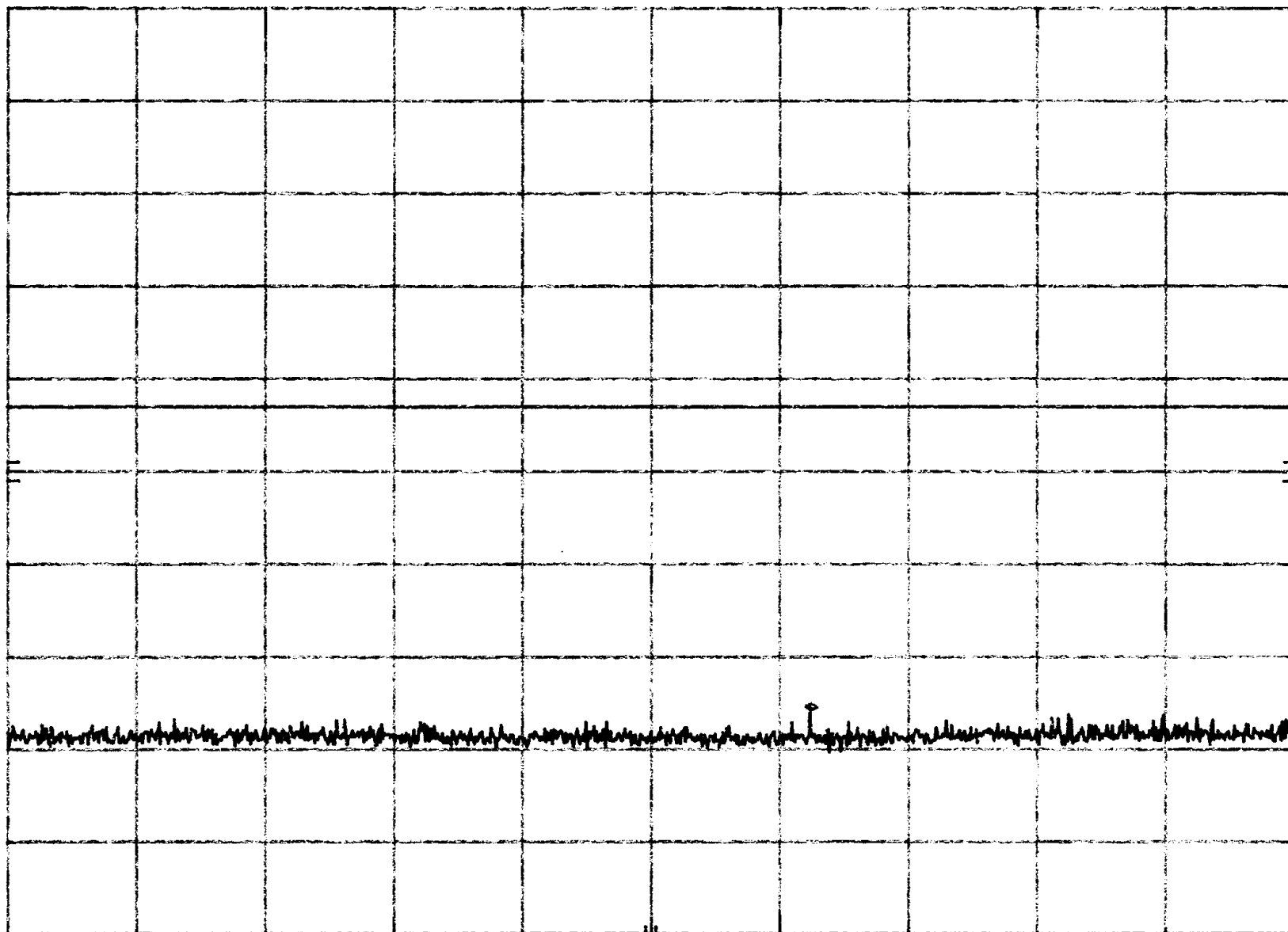
hp REF 30.0 dBm ATTN 40 dB

-45.40 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

STOP 5.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

SWP 2.25 sec

CONDUCTED SPURIOUS
MID TRANS MIT 435 MHz Tx 8-

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

HIGH POWER S/N 104

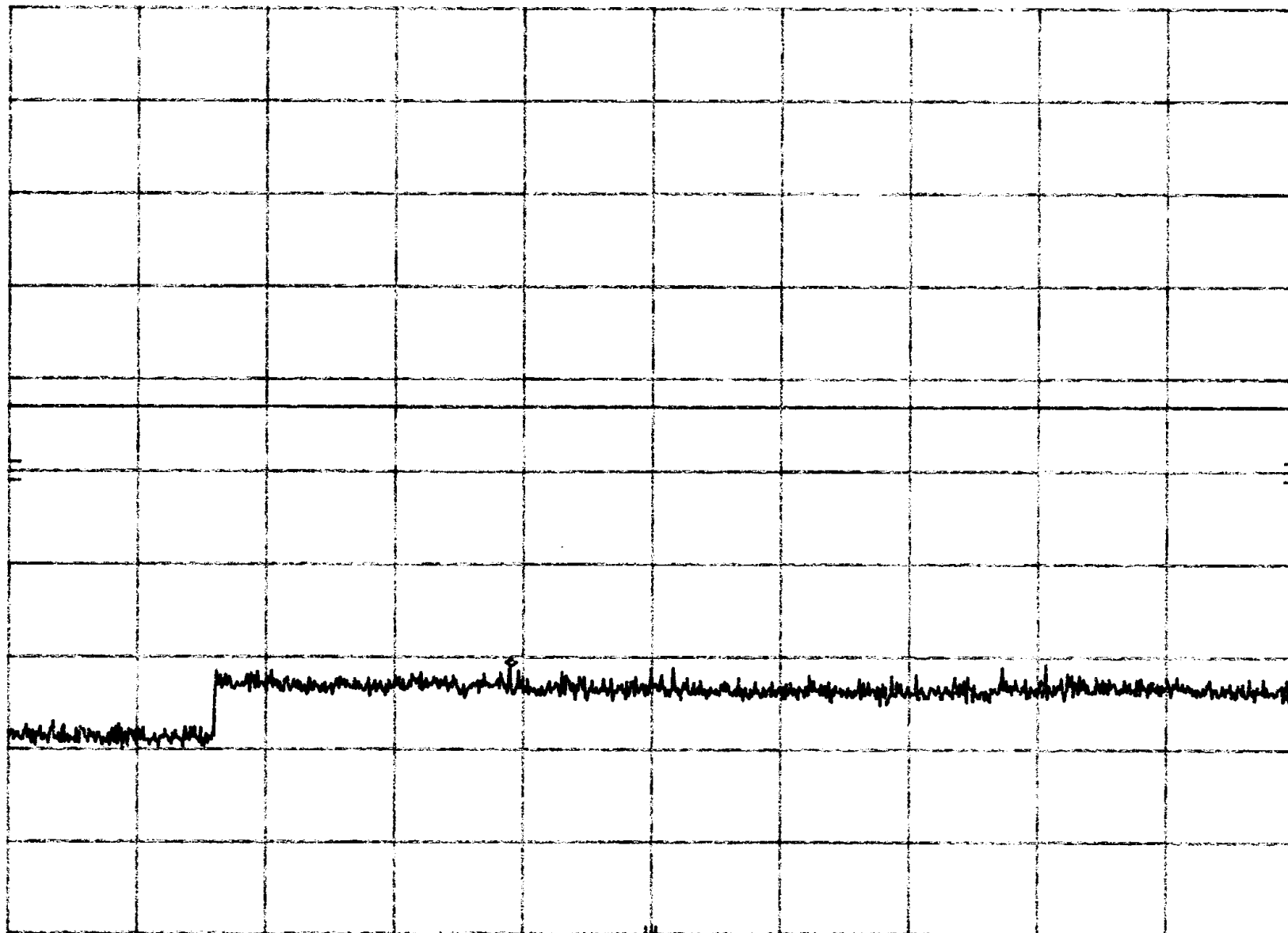
MKR 6.950 GHz
-40.60 dBm

hp REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 10.00 GHz
SWP 3.75 sec

CONDUCTED SPURIOUS
HIGH TRANSMIT 500MHz Tx 4R x 8

HIGH POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKA 22.64 MHz

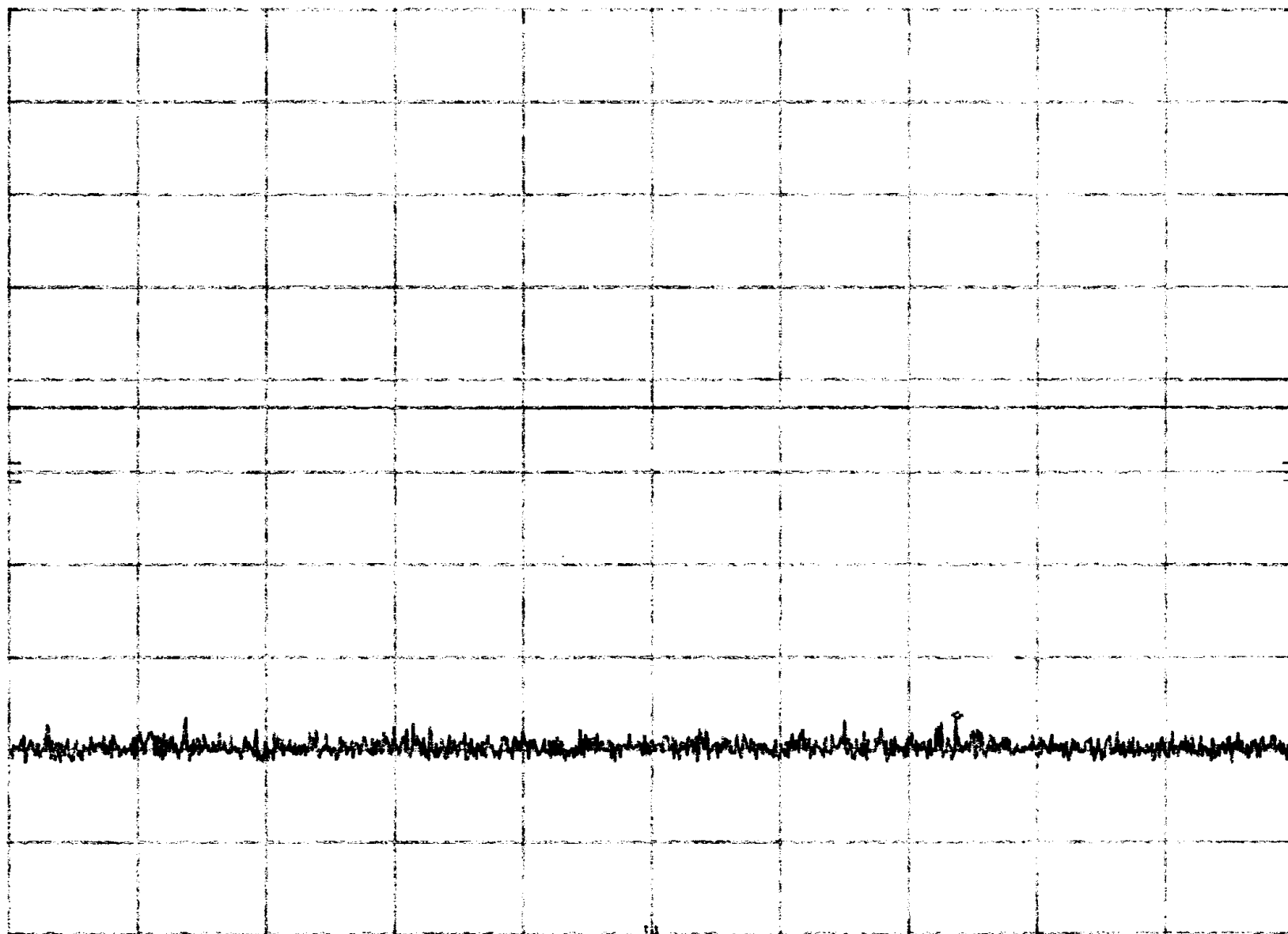
HP REF 30.0 dBm ATTN 40 dB

-46.30 dBm

10 dB/

POS PK

DL
-13.0
dBm



START 2.0 MHz

STOP 30.0 MHz

RES BW 100 KHz (1) VBW 100 KHz

SWP 21.0 msec

CONDUCTED SPURIOUS
HIGH TRANSMIT 500MHz Tx4 Rx8
HIGH POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

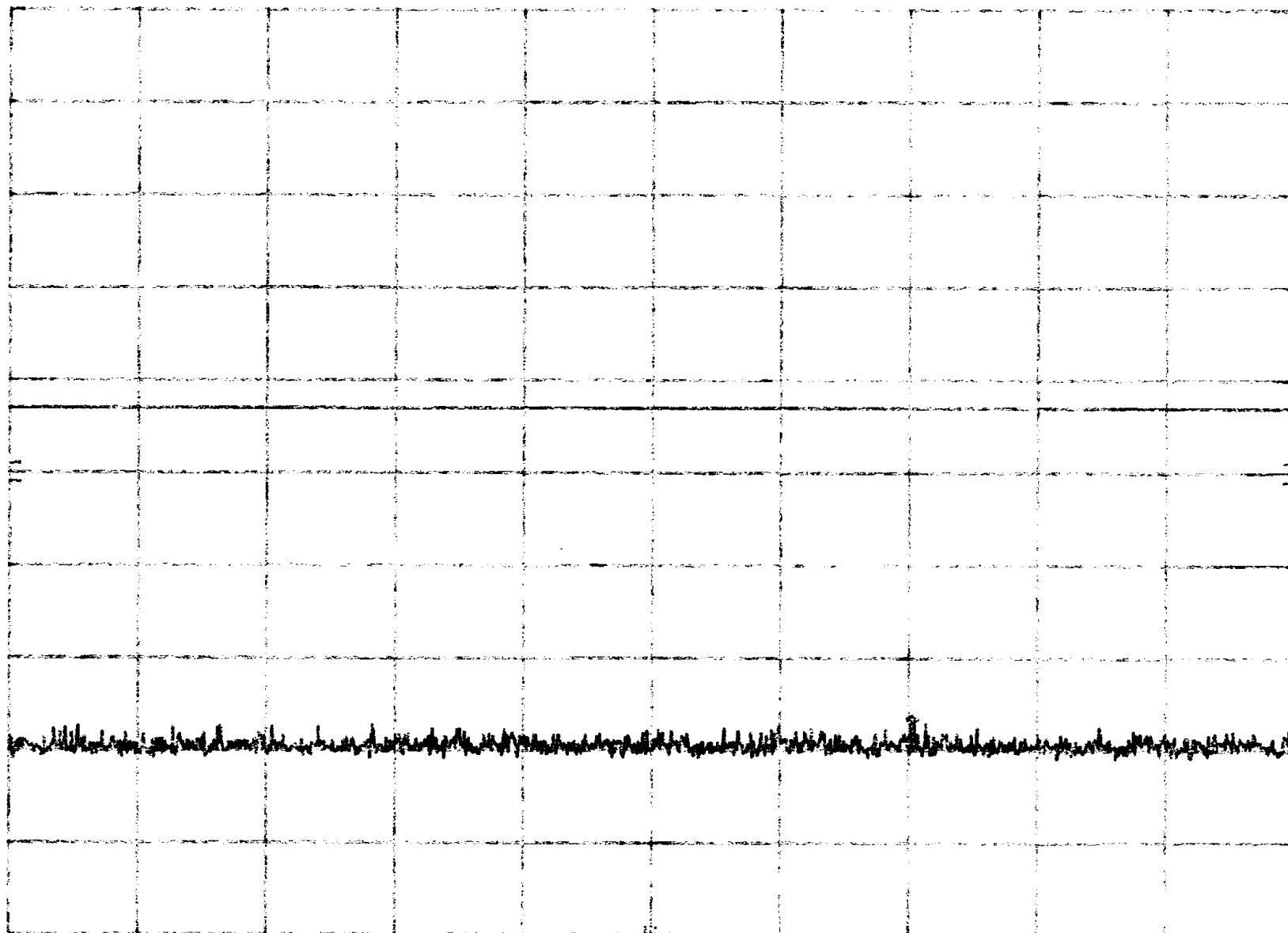
MKR 289.7 MHz
-46.60 dBm

HP REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 30 MHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 400 MHz

SWP 278 msec

CONDUCTED SPURIOUS
HIGHPower TRANSMIT 500MHz Tx4 Rx3 FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS
HIGH POWER SIN 104

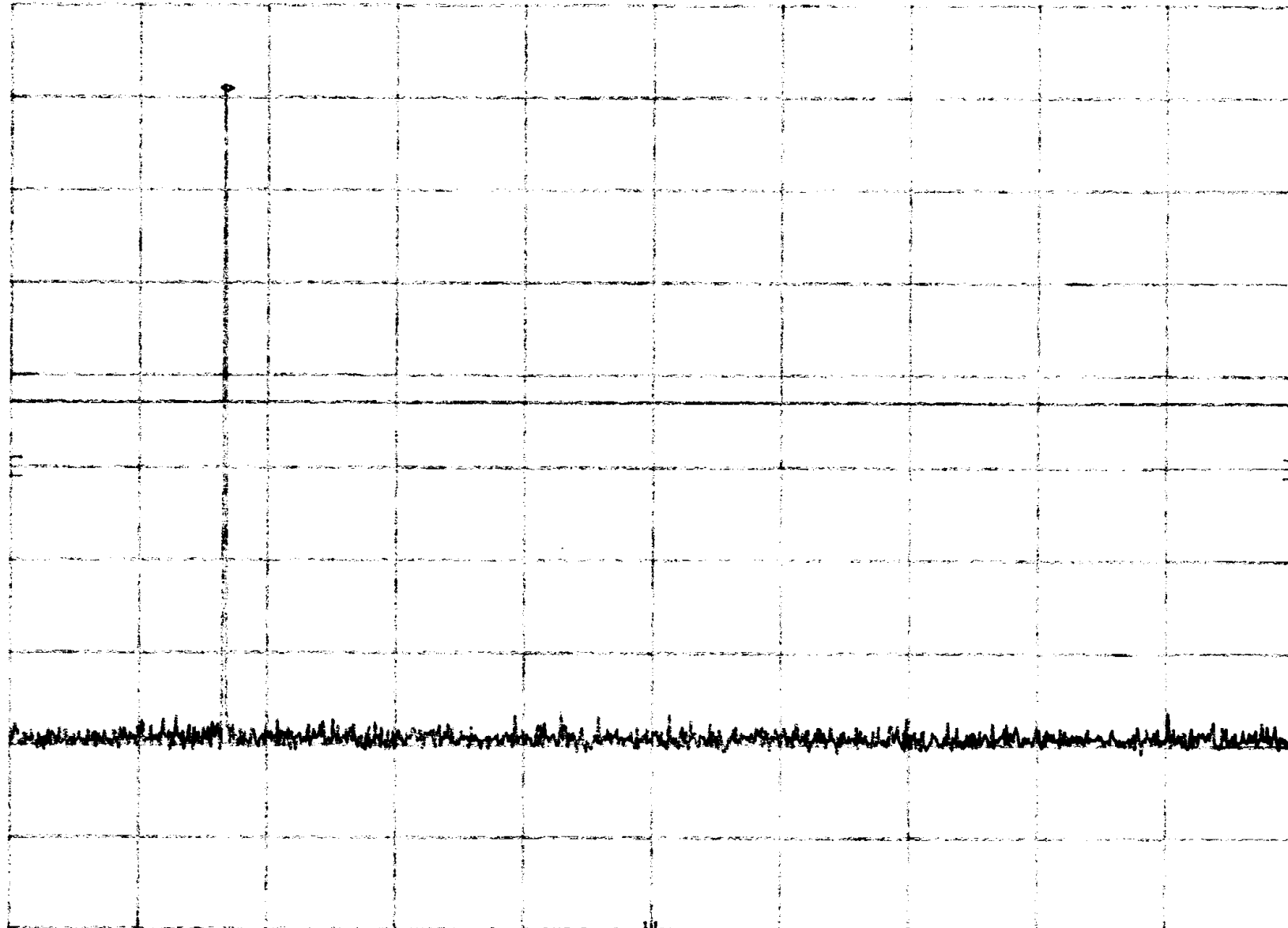
MKR 500.2 MHz
21.00 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 400 MHz STOP 1.000 GHz
RES BW 100 KHz (1) VBW 100 KHz SWP 450 msec

CONDUCTED SPURIOUS
HIGH TRANSMIT 500 MHz Tx4 Rx8
HIGH POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

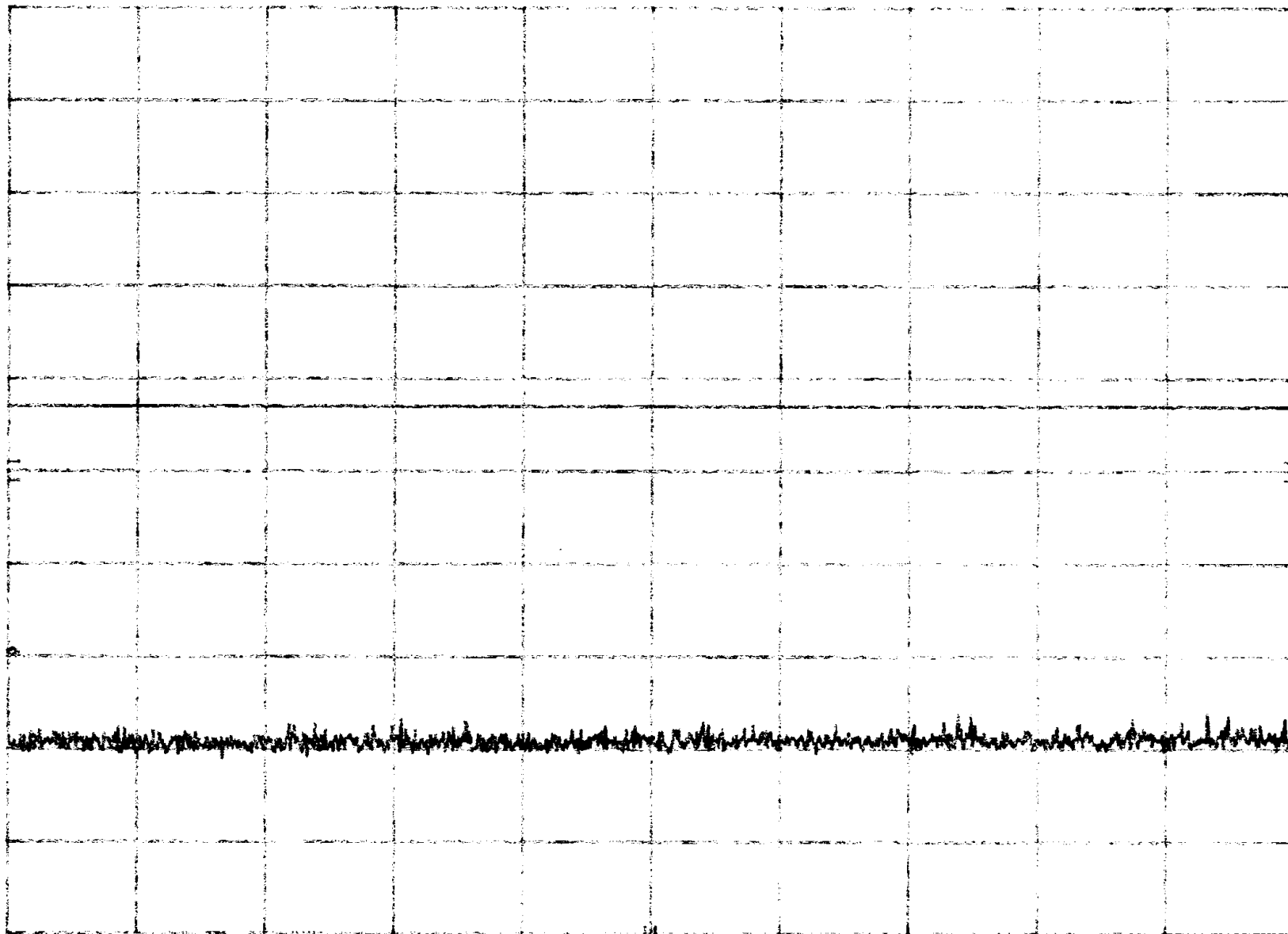
MKR 1.000 GHz
-39.50 dBm

hp REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 1.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 2.00 GHz

SWP 750 msec

CONDUCTED SPURIOUS
HIGH TRANSMIT 800MHz Tx4 Rx8
HIGH POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

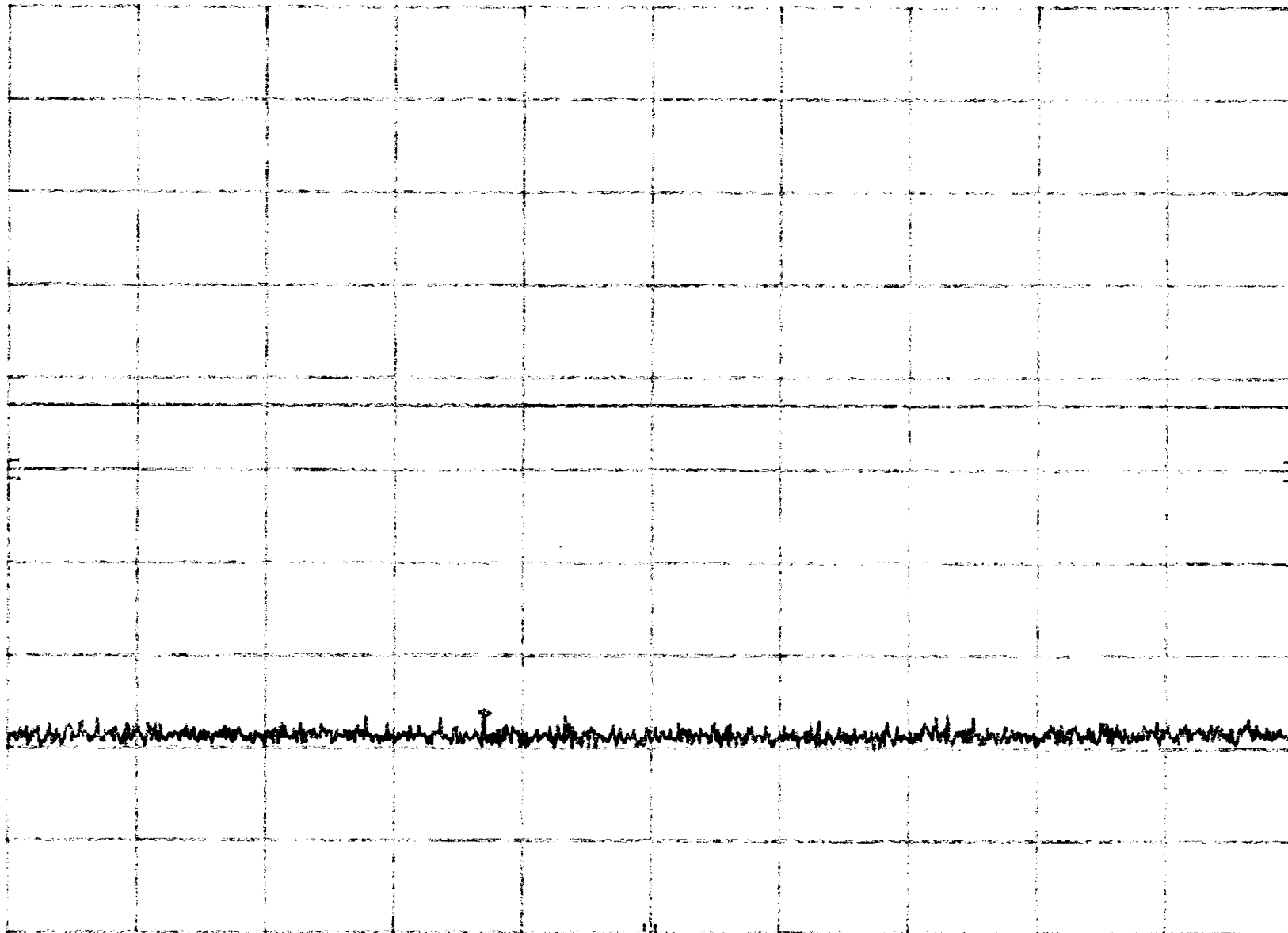
MKR 3.110 GHz
-46.20 dBm

HP REF 30.0 dBm ATTEN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 2.00 GHz

RES BW 100 KHz (1) VBW 100 KHz

STOP 5.00 GHz

SWP 2.25 sec

CONDUCTED SPURIOUS

HIGH TRANSMIT 500 MHz TX 4 Rxs

HIGH POWER SIN 104

FCC PART 2, PARA. 2.1051 AND PART 74, PARA. 74.861(e)(6)(iii) CONDUCTED SPURIOUS

MKR 6.315 GHz

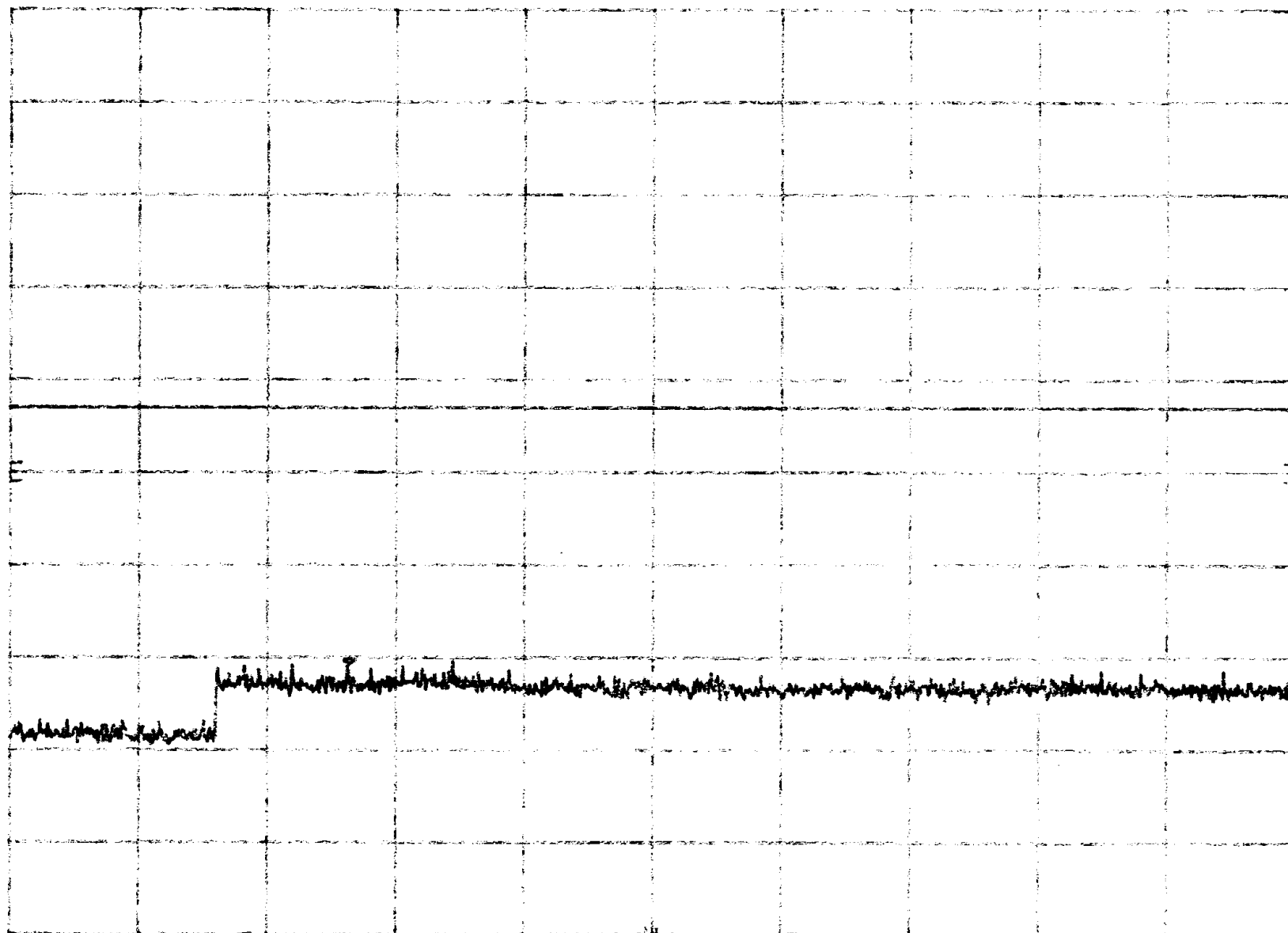
-40.40 dBm

HP REF 30.0 dBm ATTN 40 dB

10 dB/

POS PK

DL
-13.0
dBm



START 5.00 GHz

RES BW 100 kHz (1) VBW 100 kHz

STOP 10.00 GHz

SWP 3.75 sec

REPORT No: s1010 TESTED BY: Rodel Resolme SPEC: FCC PART 2, PARA. 2.1053 RADIATED SPURIOUS

CUSTOMER: VEGA Wireless

TEST DIST: 3 Meters

E U T: Q700 Master Station Receivers & Transmitter TEST SITE: 3

EUT MODE: transmit

BICONICAL: N/A

DATE: 15-Feb-01

LOG: N/A

NOTES: Duty Cycle= 100% OTHER: 251

Low Power (low) 470.025Mhz

s/n 104

FREQ (MHz)	VERTICAL (dBuV)		HORIZONTAL (dBuV)		CORRECTION FACTOR (dB/m)	MAX LEVEL (dBuV/m)		SPEC LIMIT (dBuV/m)		MARGIN (dB)		EUT Ratio	Antenna Height	Notes
	pk	av	pk	av		pk	av	pk	av	pk	av			
470.025	70.1	70.1	69.8	69.8	22.5	92.6	92.6			92.6	93	87	1	
940	16	16	14	14	29.6	45.6	45.6			45.6	46			
1410	4.5	4.5	4.5	4.5	26.5	31.0	31.0			31	31			
1880	4.5	4.5	4	4	29.8	34.3	34.3			34.3	34			
2350	4.5	4.5	4.5	4.5	33.5	38.0	38.0			38	38			
2820	4.5	4.5	4.5	4.5	36.1	40.6	40.6			40.6	41			
470.025	74.5	74.5	75.1	75.1	22.5	97.6	97.6			97.6	98	98	1	High Power (low) 470.025Mhz
940	16	16	15.5	15.5	29.6	45.6	45.6			45.6	46			
1410	5	5	5	5	26.5	31.5	31.5			31.5	32			
1880	5	5	4	4	29.8	34.8	34.8			34.8	35			
2350	4.5	4.5	4	4	33.5	38.0	38.0			38	38			
2820	4.5	4.5	4	4	36.1	40.6	40.6			40.6	41			
485	70.8	70.8	71.2	71.2	22.5	93.7	93.7			93.7	94	270	2	Low Power (mid) 485Mhz
970	16	16	16	16	29.6	45.6	45.6			45.6	46			
1455	4.5	4.5	4.5	4.5	26.4	30.9	30.9			30.9	31			
1940	3	3	3	3	29.6	32.6	32.6			32.6	33			
2425	4	4	4	4	33.4	37.4	37.4			37.4	37			
2910	6	6	4.5	4.5	36.1	42.1	42.1			42.1	42			
485	74.6	74.6	79.1	79.1	22.5	101.6	####			102	102	48	2	High Power (mid) 485Mhz
970	16	16	16	16	29.6	45.6	45.6			45.6	46			
1455	4.5	4.5	4	4	26.4	30.9	30.9			30.9	31			
1940	3.5	3.5	3.5	3.5	29.6	33.1	33.1			33.1	33			
2425	4	4	4	4	33.4	37.4	37.4			37.4	37			
2910	5.5	5.5	3.5	3.5	36.1	41.6	41.6			41.6	42			
500	73.1	73.1	77.8	77.8	22.5	100.3	####			100	100	40	1.5	Low Power (high) 500Mhz
1000	1	1	1	1	29.6	30.6	30.6			30.6	31			
1500	5	5	5.5	5.5	30.6	36.1	36.1			36.1	36			
2000	5	5	4.5	4.5	33.9	38.9	38.9			38.9	39			
2500	5.5	5.5	5	5	36.3	41.8	41.8			41.8	42			
3000	5.5	5.5	4.5	4.5	37.5	43.0	43.0			43	43			
500	78.6	78.6	82.6	82.6	22.5	105.1	####			105	105			High Power (high) 500Mhz
1000	1.4	1.4	1	1	29.6	31.0	31.0			31	31			
1500	5.5	5.5	6	6	30.6	36.6	36.6			36.6	37			
2000	4.5	4.5	4	4	33.9	38.4	38.4			38.4	38			
2500	5.5	5.5	5.5	5.5	36.3	41.8	41.8			41.8	42			
3000	5	5	4.5	4.5	37.5	42.5	42.5			42.5	43			

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Vega Wireless Masterstation - 485.000MHz Reference

February 14, 2001

TUV Product Service - San Diego

Voltage Variation

TIME	Delta (Hz)	Temp (C)
1:00:11	-512	-30.57
1:01:16	-512	-30.63
1:02:21	-192	-30.64
1:03:26	-192	-30.68
1:04:31	-192	-30.66
1:05:36	-192	-30.7
1:06:41	0	-30.77
1:07:45	-192	-30.71
1:08:50	0	-30.78
1:09:55	-192	-30.77
2:10:10	-2208	-21.594
2:11:14	-1984	-21.642
2:12:19	-1504	-21.587
2:13:24	-992	-21.683
2:14:29	-992	-21.584
2:15:34	-704	-21.632
2:16:38	-512	-21.642
2:17:43	-704	-21.619
2:18:48	-512	-21.655
2:19:53	-512	-21.564
3:20:07	-992	-12.319
3:21:12	-704	-12.238
3:22:17	-512	-12.253
3:23:22	0	-12.366
3:24:27	-192	-12.284
3:25:31	-192	-12.261
3:26:36	0	-12.265
3:27:41	0	-12.322
3:28:46	0	-12.262
3:29:51	0	-12.262
4:30:06	0	-2.717
4:31:10	0	-2.726
4:32:15	0	-2.699
4:33:20	-192	-2.622
4:34:25	0	-2.688
4:35:29	-192	-2.639
4:36:34	-192	-2.647
4:37:39	-192	-2.608
4:38:44	-192	-2.595
4:39:48	-512	-2.598
5:40:03	0	6.598
5:41:08	-192	6.579
5:42:13	-512	6.632
5:43:18	-704	6.629
5:44:22	-992	6.645
5:45:27	-704	6.663
5:46:32	-1216	6.659
5:47:37	-1216	6.702
5:48:41	-1216	6.724

Vega Wireless Masterstation - 485.000MHz Reference

February 14, 2001

TUV Product Service - San Diego

Voltage Variation

TIME	Delta (Hz)	Temp (C)
5:49:47	-1216	6.685
6:50:02	-1216	15.524
6:51:06	-1216	15.51
6:52:11	-1216	15.524
6:53:16	-192	15.52
6:54:21	288	15.581
6:55:26	512	15.618
6:56:30	512	15.598
6:57:35	0	15.627
6:58:40	0	15.655
6:59:45	-192	15.692
7:59:59	-47200	26.212
8:01:04	-39200	26.222
8:02:09	-42688	26.228
8:03:14	-46496	26.256
8:04:18	-39712	26.311
8:05:23	-44992	26.302
8:06:28	-46688	26.278
8:07:33	-37696	25.571
8:08:38	-44192	25.192
8:09:42	-41504	24.759
9:09:57	-704	35.75
9:11:02	-1216	35.71
9:12:07	-1216	35.77
9:13:12	-1504	35.76
9:14:17	-1216	35.77
9:15:21	-1504	35.75
9:16:26	-1504	35.72
9:17:31	-1696	35.76
9:18:36	-1504	35.76
9:19:41	-1504	35.74
10:19:56	-1504	45.46
10:21:00	-1504	45.46
10:22:05	-1216	45.5
10:23:10	-1504	45.47
10:24:15	-1696	45.48
10:25:20	-1504	45.51
10:26:25	-1504	45.51
10:27:29	-1504	45.5
10:28:34	-1696	45.52
10:29:39	-1216	45.52