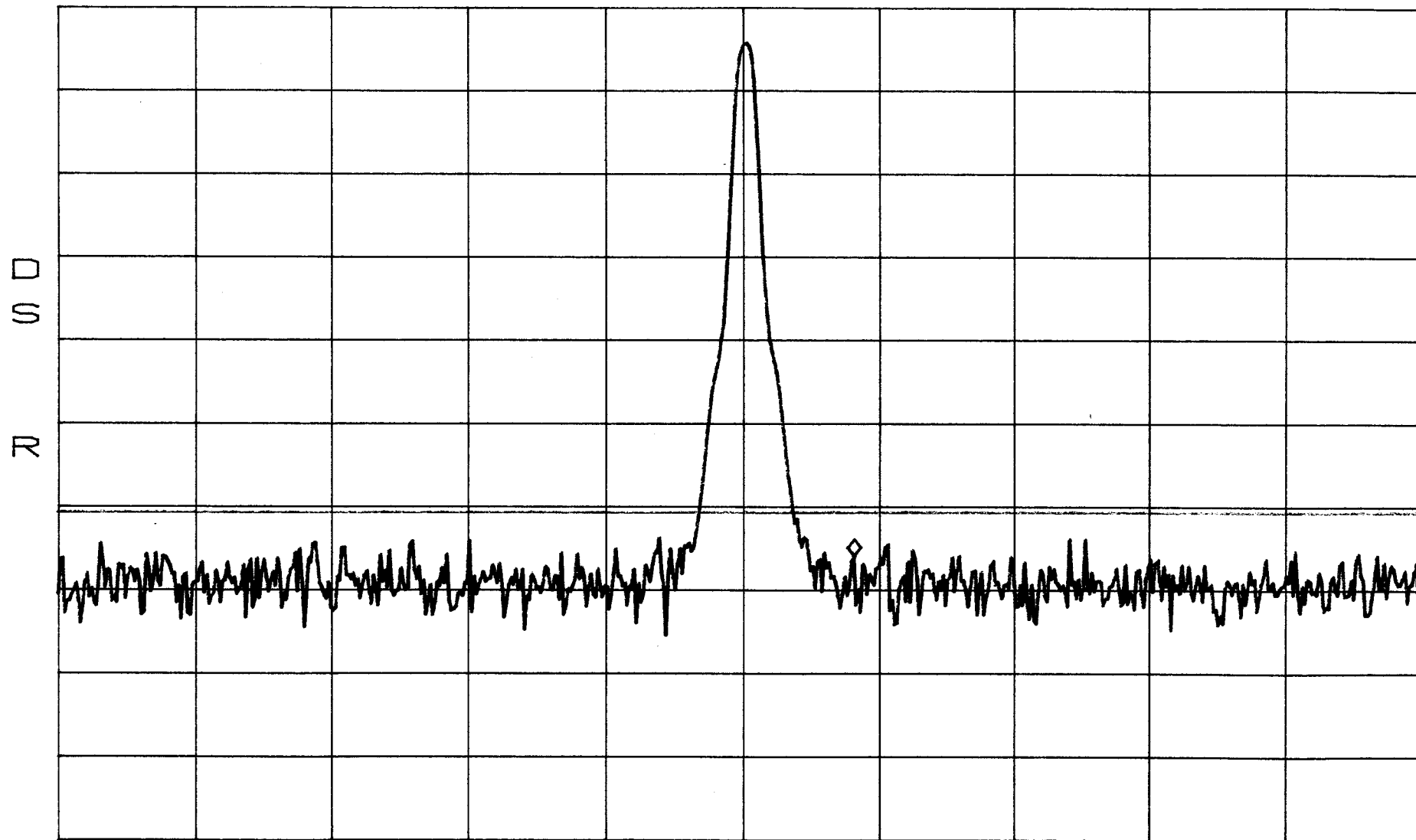


*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -18.03dBm
1.940408GHz



CENTER 1.940000GHz

SPAN 5.000MHz

RBW 30kHz

VBW 30kHz

SWP 50ms

Conducted Emissions
FM

Band A/D

*ATTEN 20dB

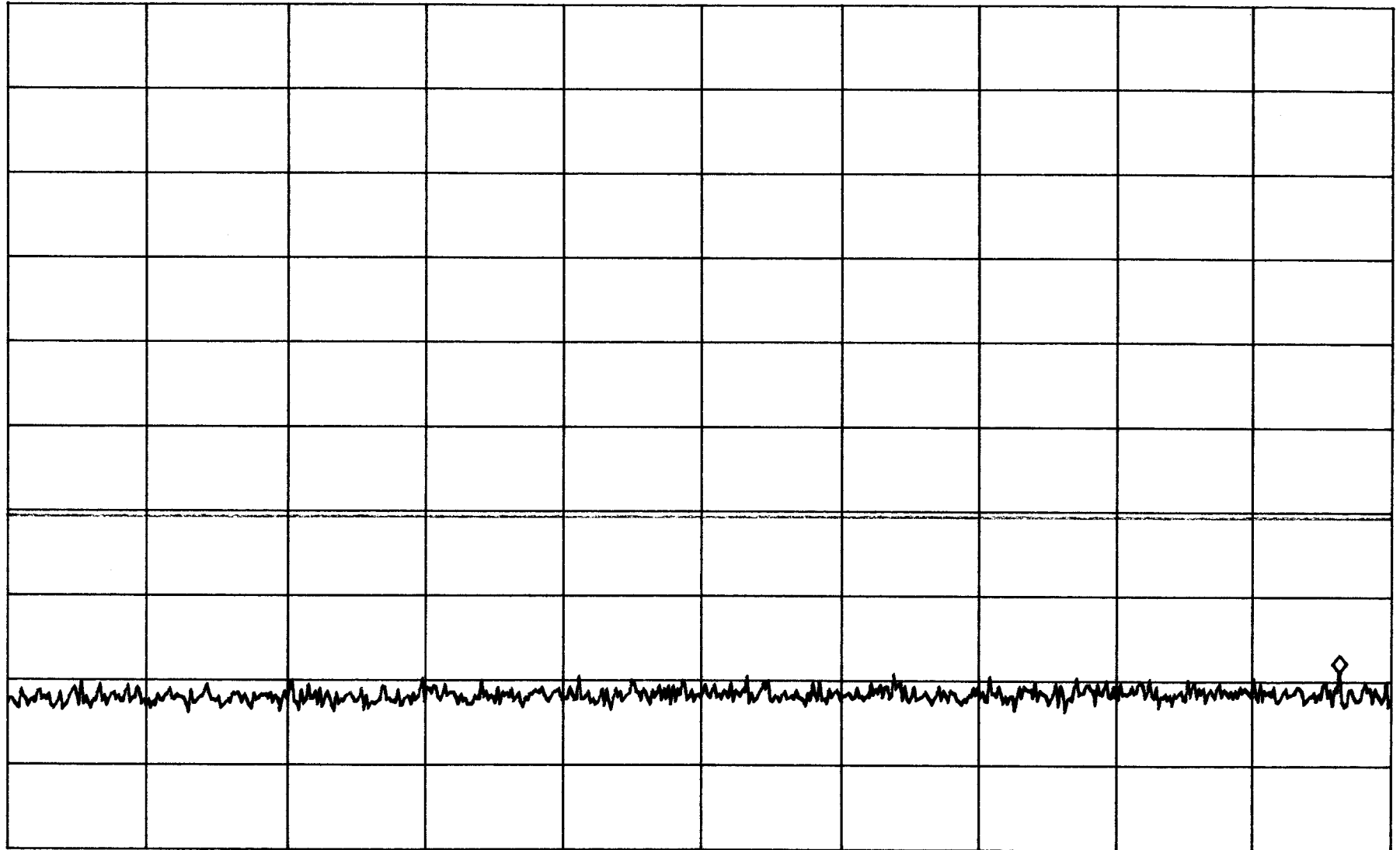
RL 47.8dBm

10dB/

MKR -31.03dBm

964.4MHz

SDR



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

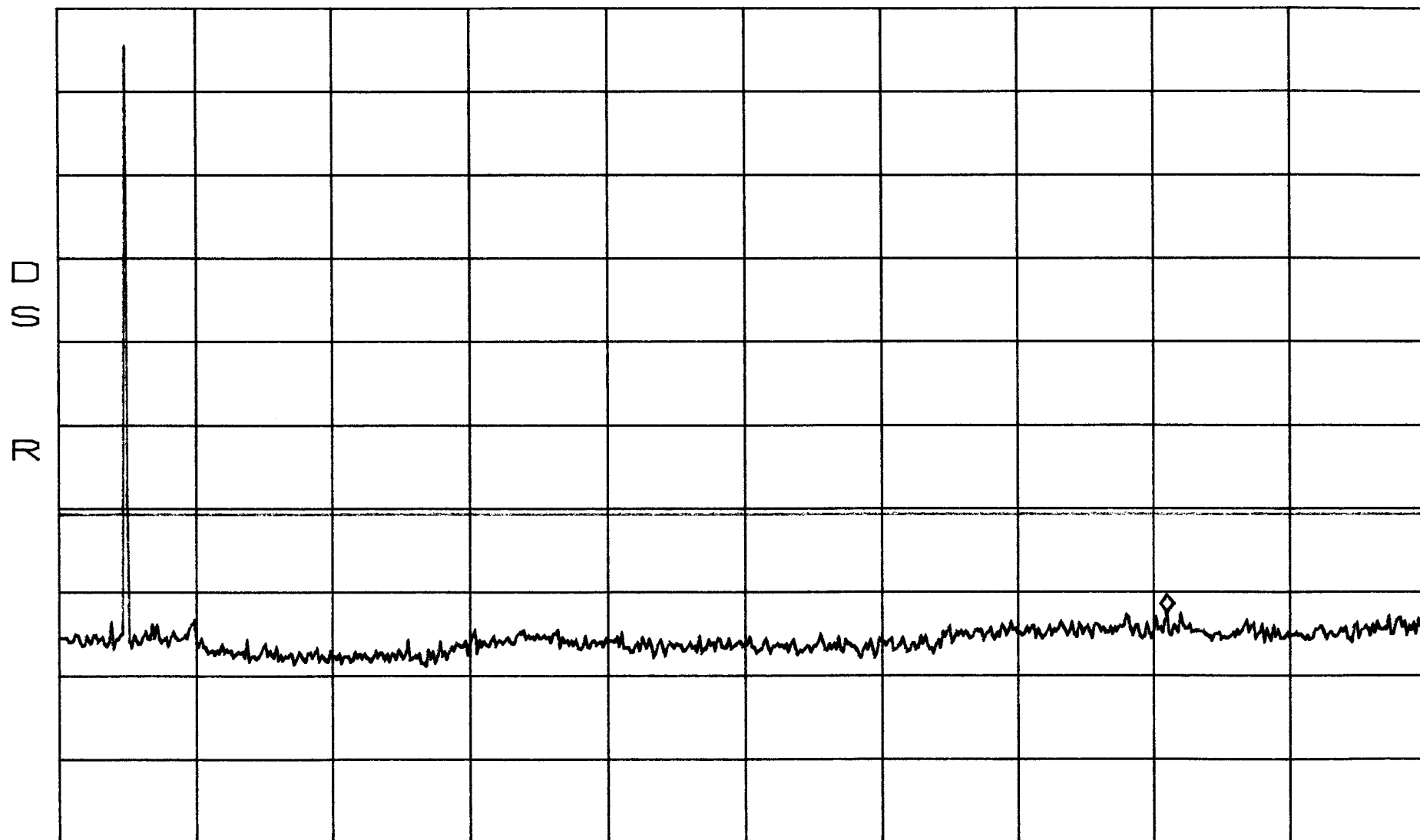
Conducted Emissions
FM

Band A,D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.53dBm
16.39GHz



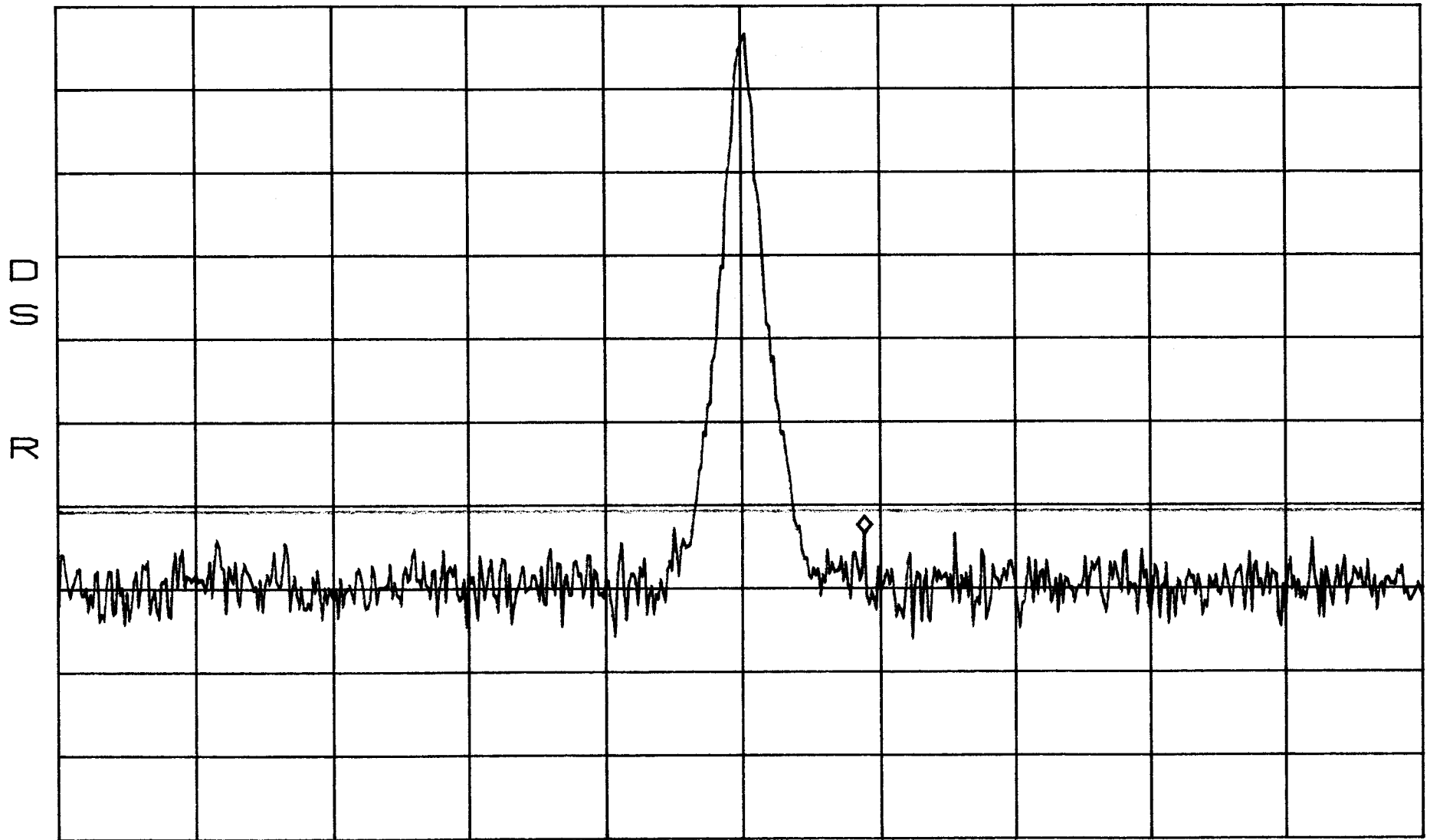
START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Conducted Emissions Band A,D
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -15.53dBm
1.940442GHz



CENTER 1.940000GHz
*RBW 30kHz VBW 30kHz

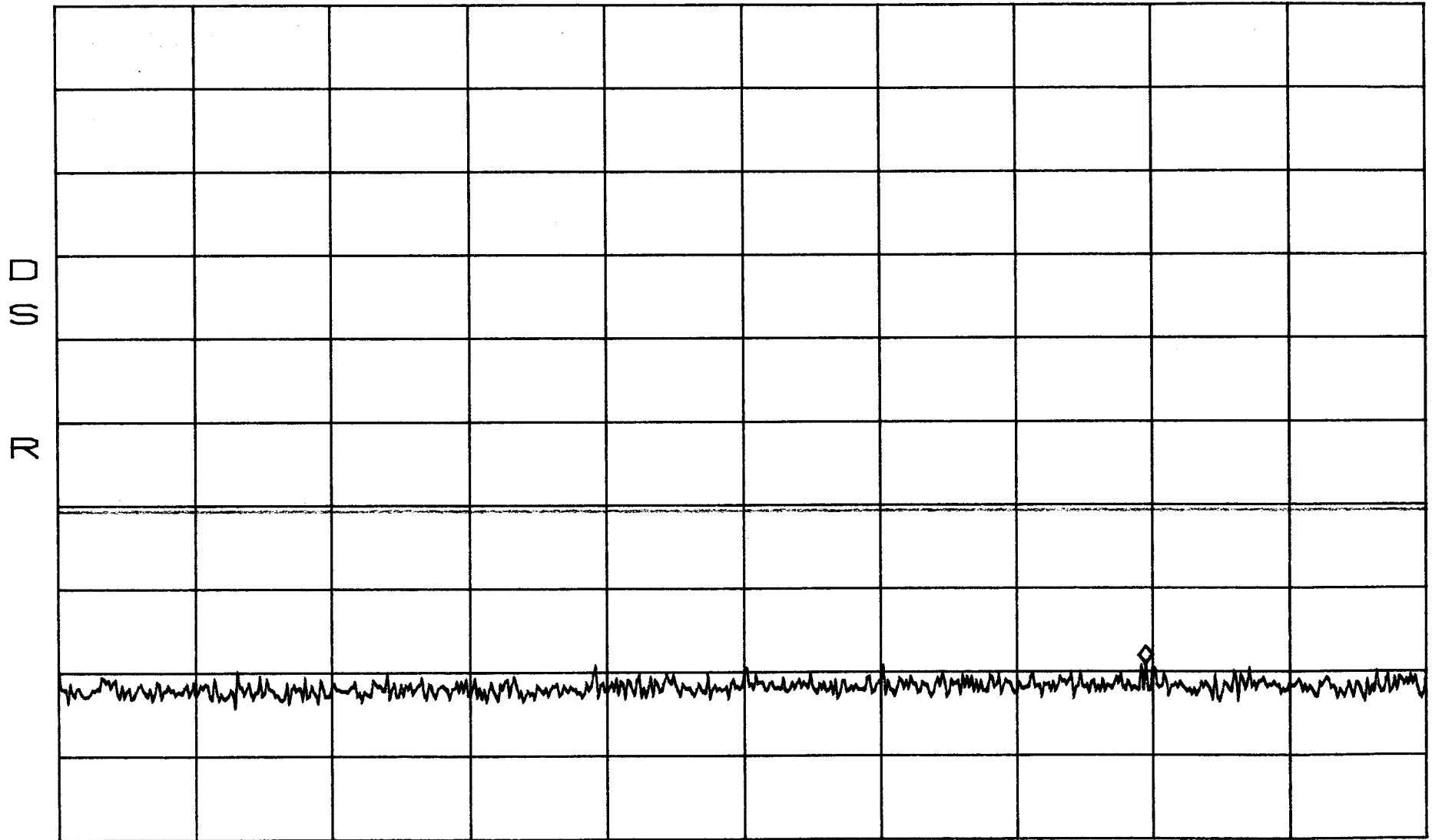
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band A,D
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.20dBm
801.2MHz



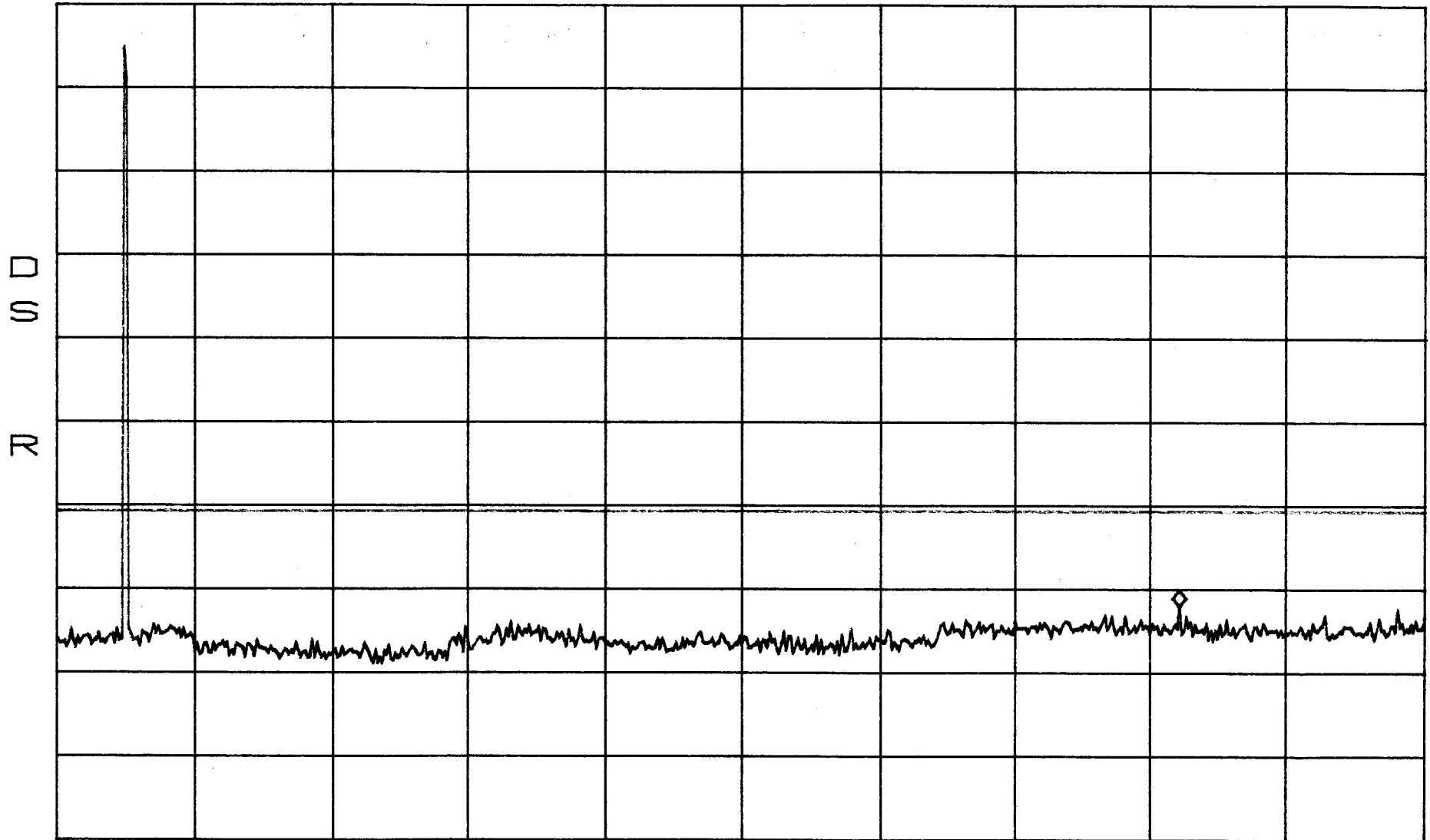
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band A,D
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.20dBm
16.61GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

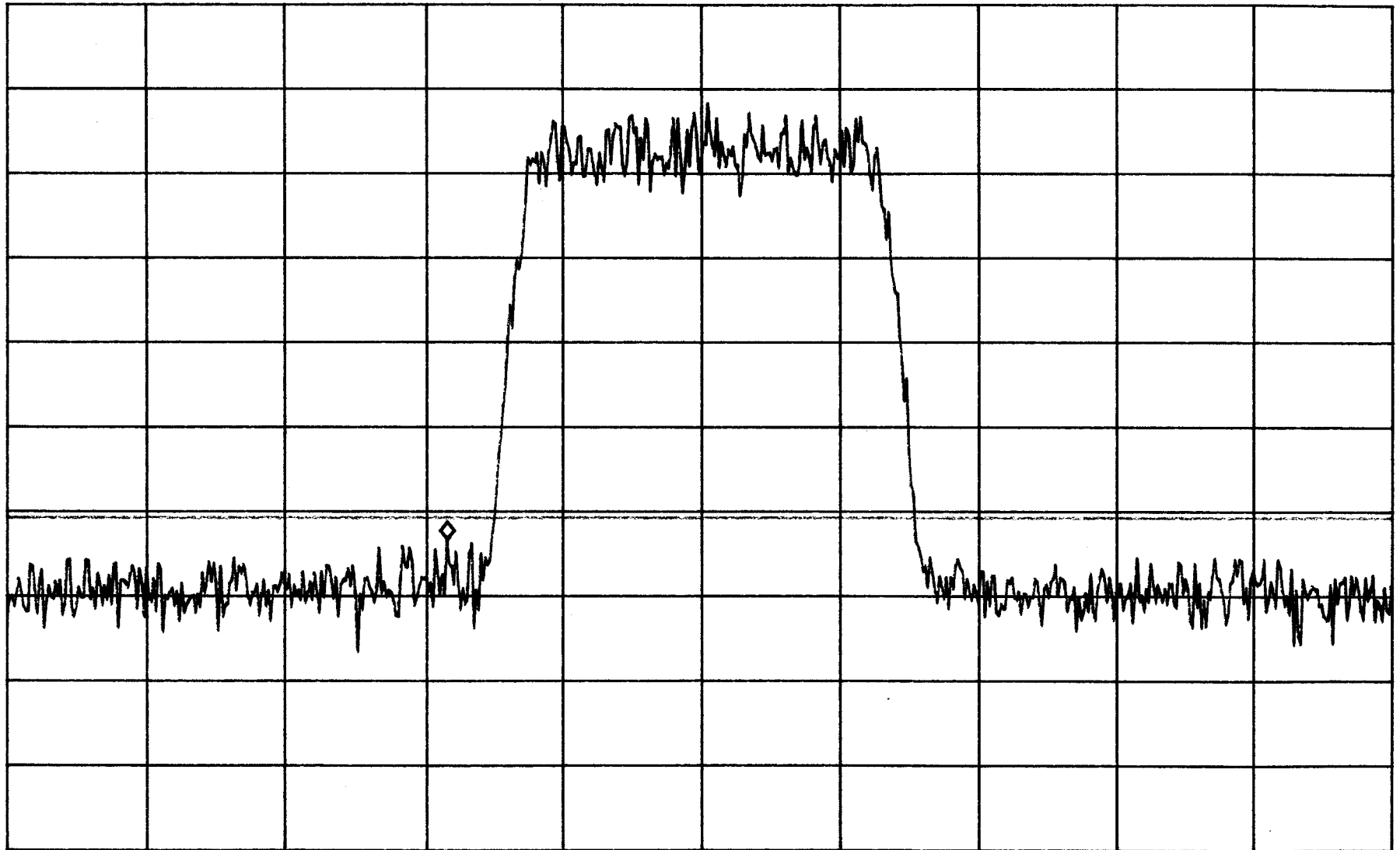
Conducted Emissions Band A,D
CDMA

*ATTEN 20dB
RL 47.8dBm

MKR -15.37dBm
1.939075GHz

10dB/

SDR



CENTER 1.940000GHz

SPAN 5.000MHz

*RBW 30kHz

VBW 30kHz

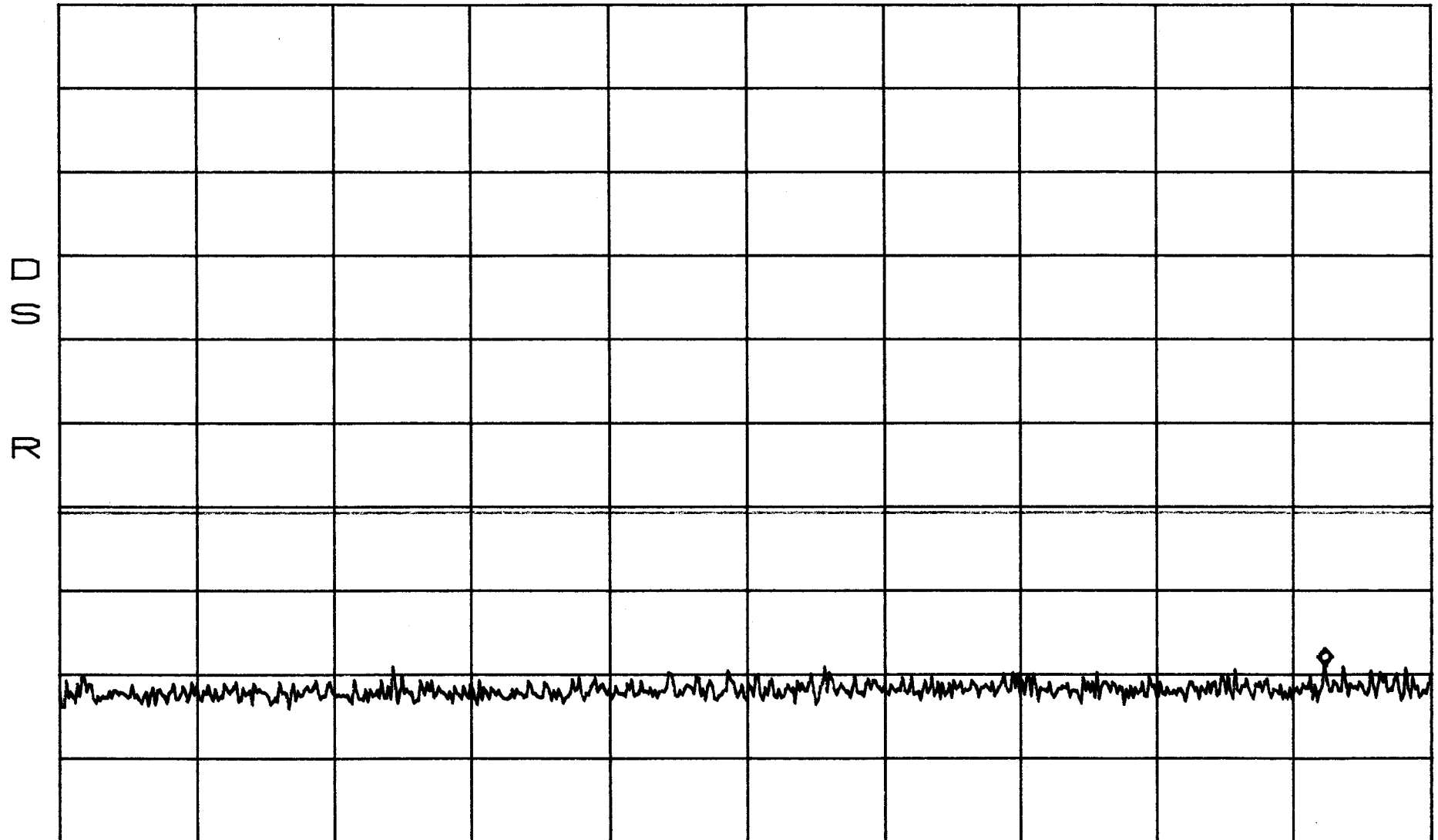
SWP 50ms

Conducted Emissions Band A/D
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.03dBm
925.6MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

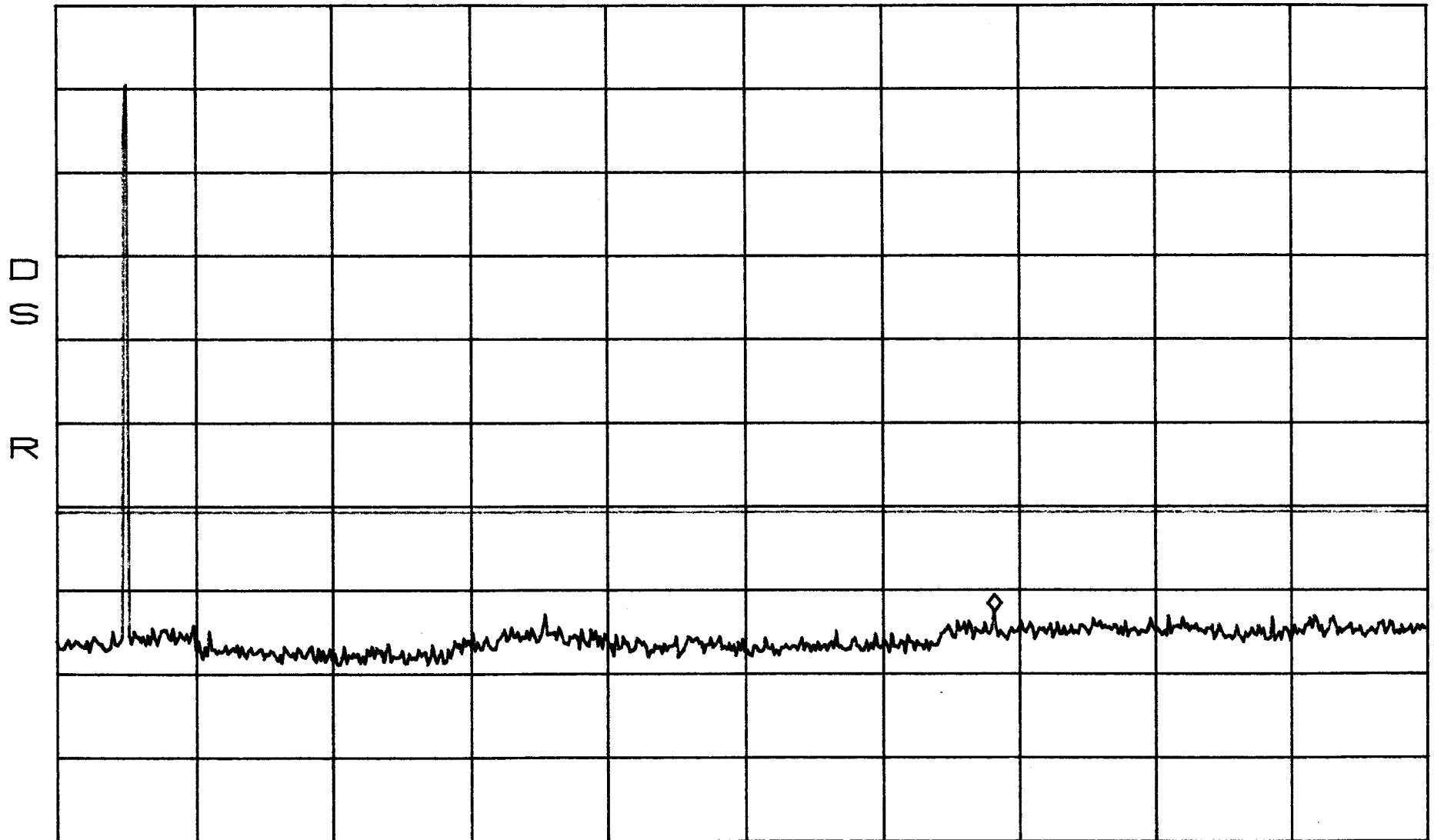
SWP 2.7sec

Conducted Emissions Band A,D
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
13.95GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

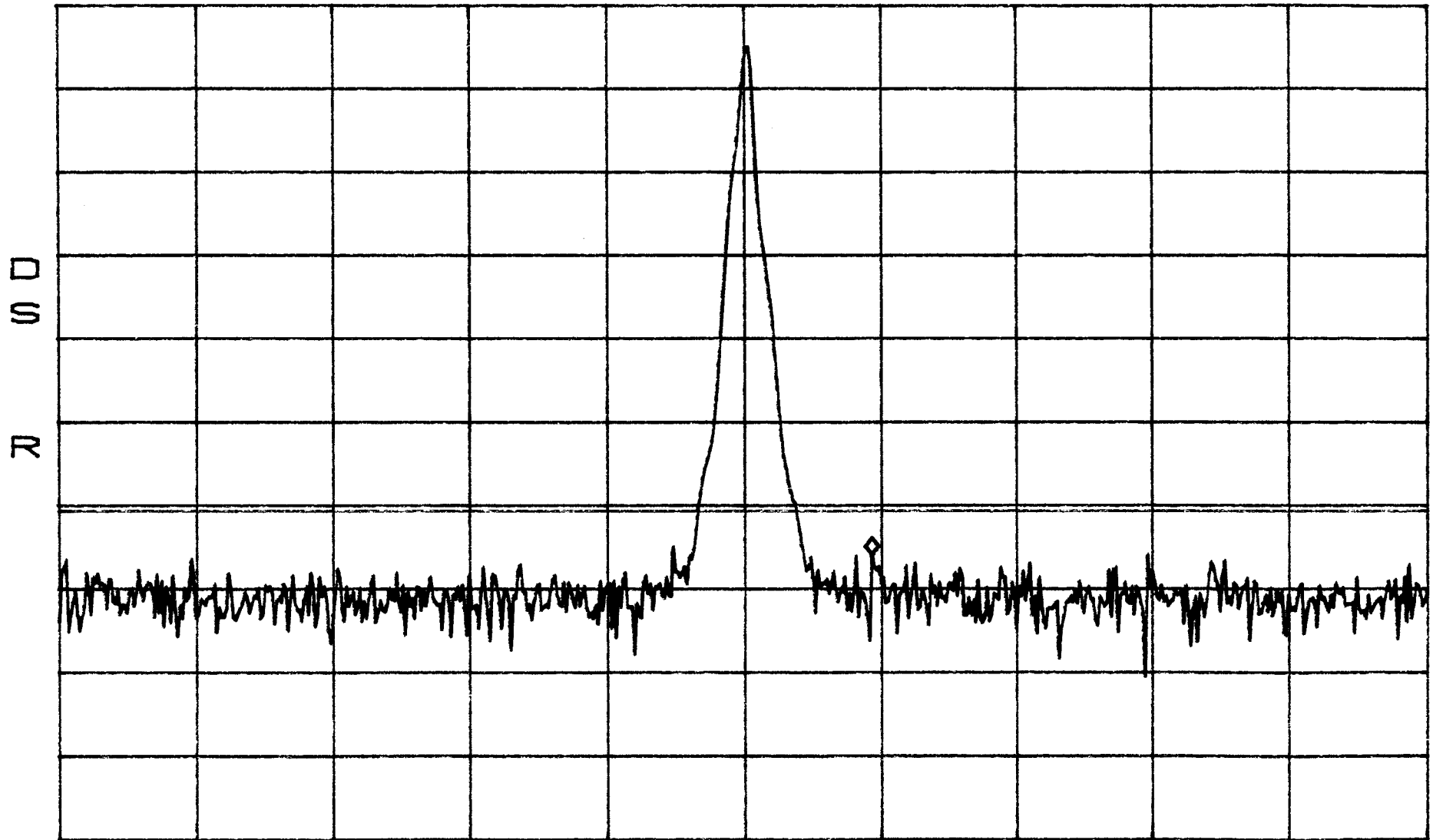
Conducted Emissions
FM

Band D, B, E

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -18.03dBm
1.957967GHz



CENTER 1.957500GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
SWP 50ms

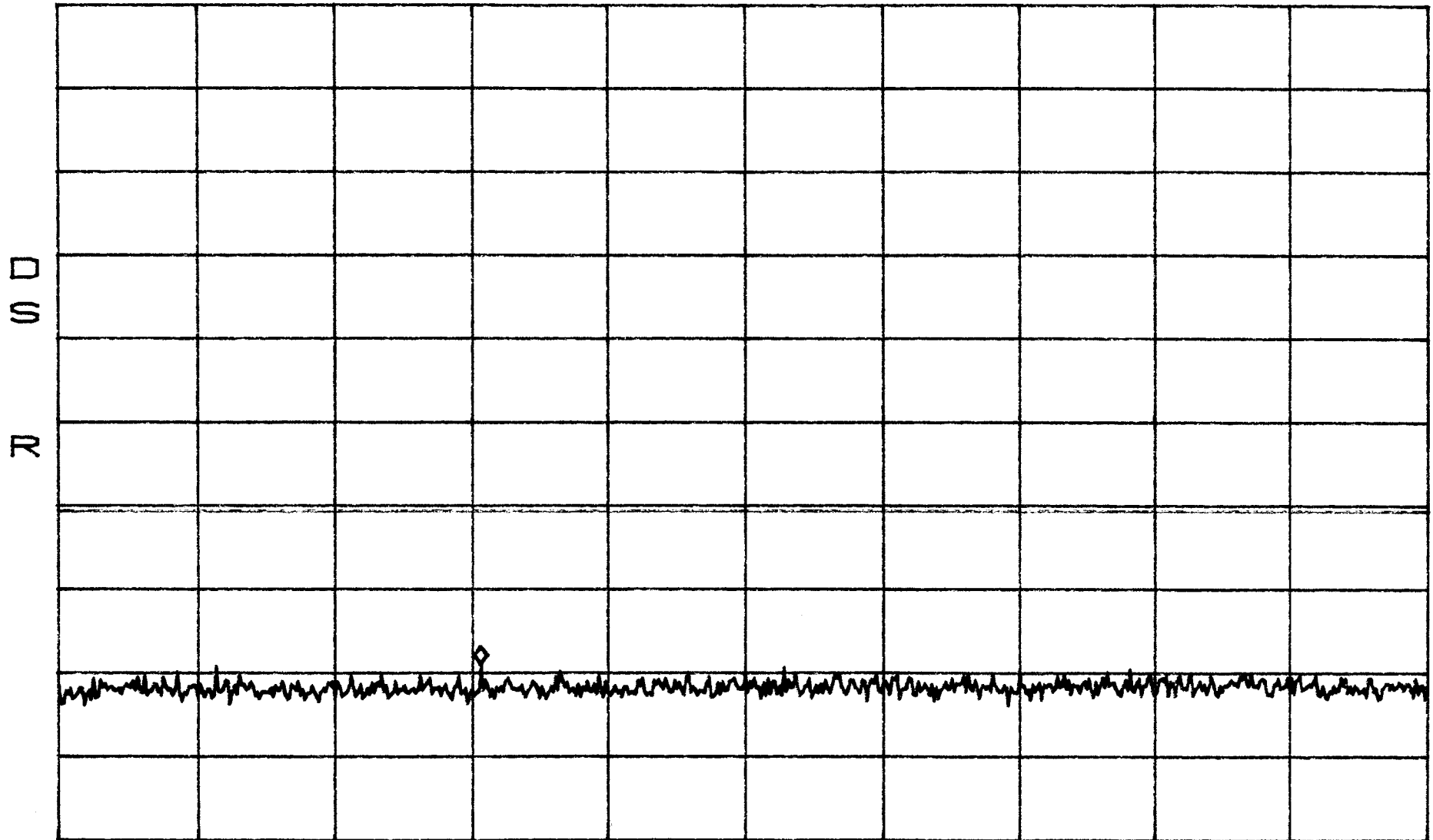
Conducted Emissions
FM

Band D,B,E

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.03dBm
327.5MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

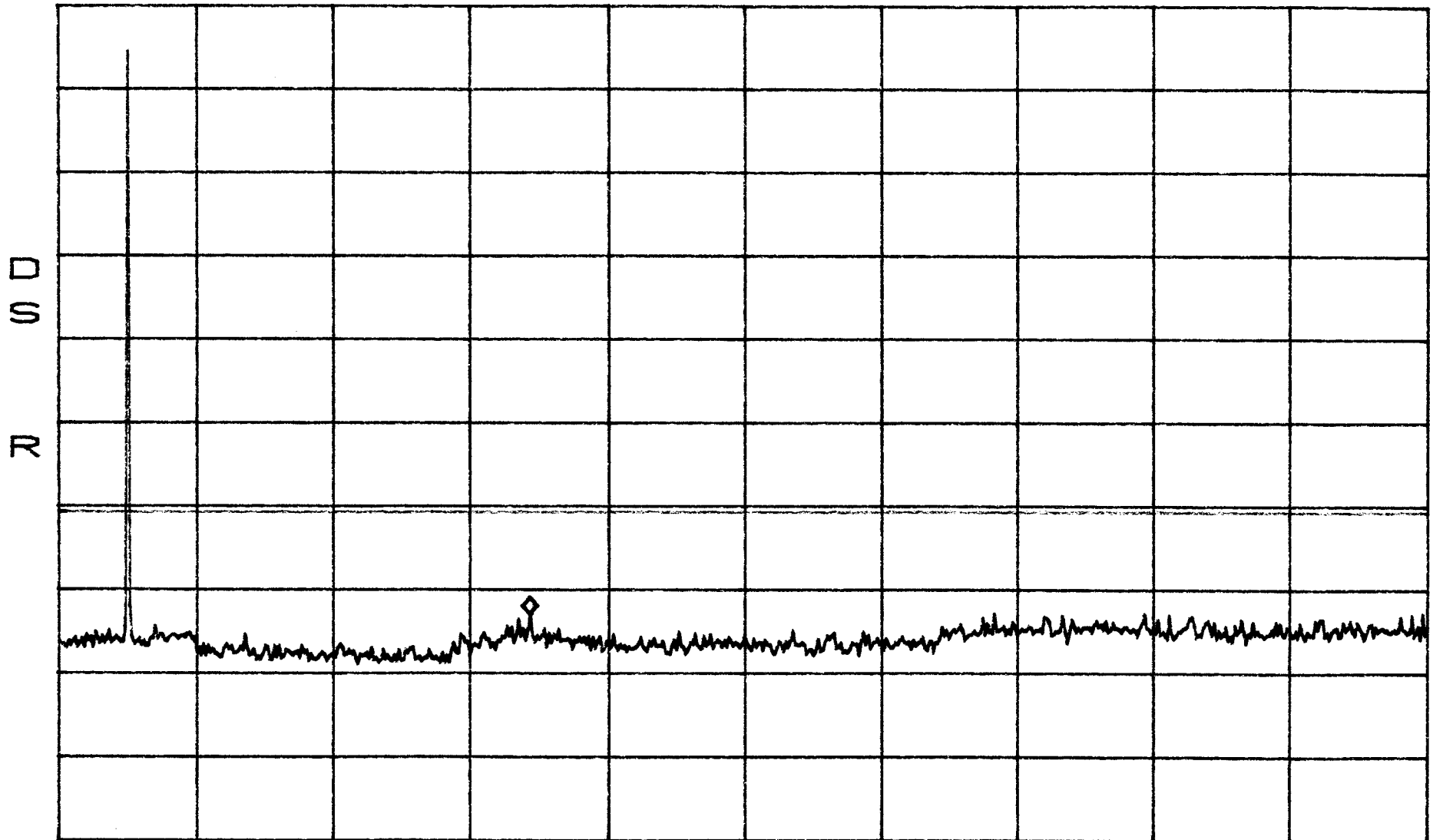
Conducted Emissions
FM

Band D,B,E

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -25.03dBm
7.52GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

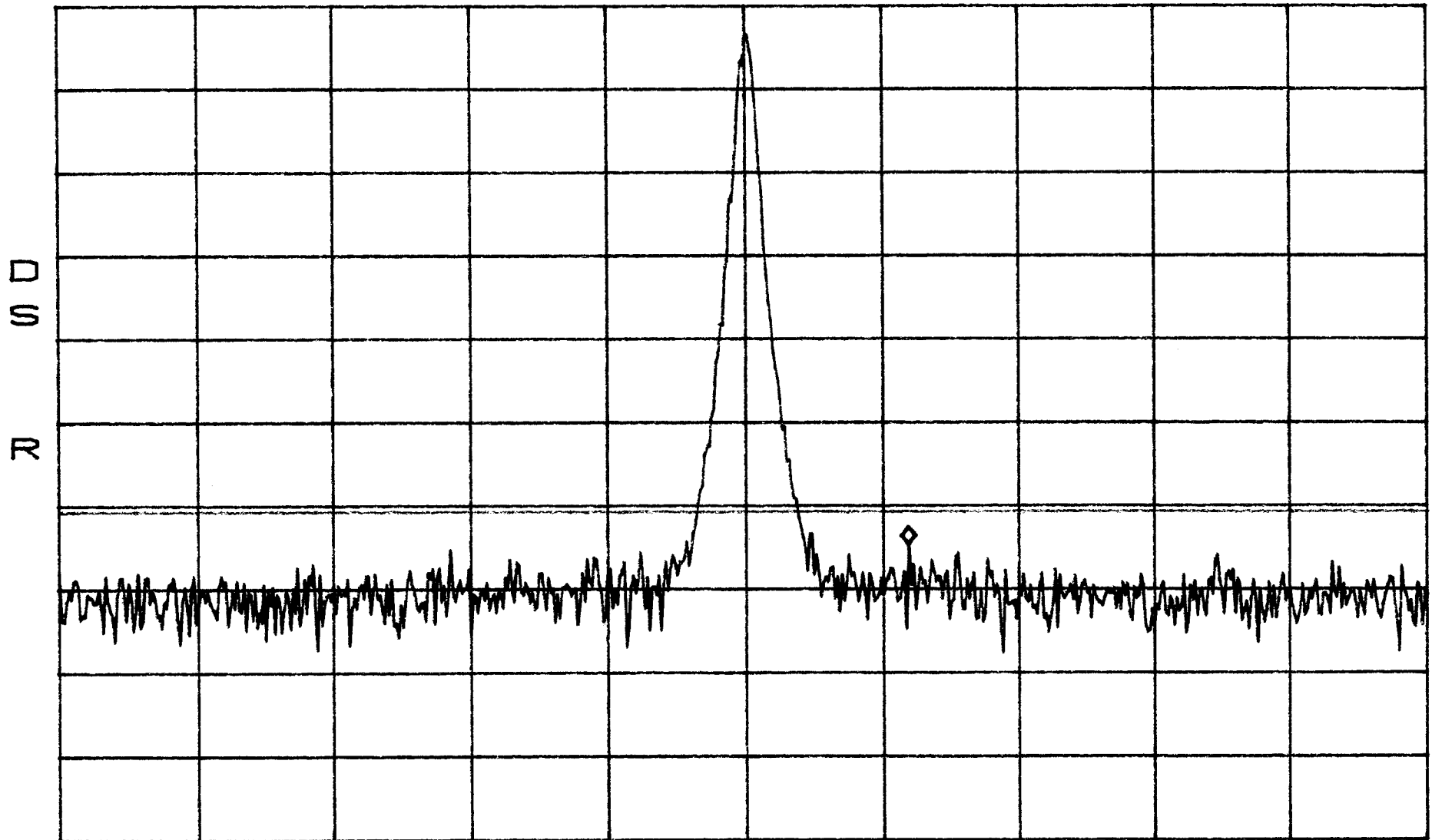
SWP 4.8sec

Conducted Emissions Band D,B,E
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -16.70dBm
1.958092GHz



CENTER 1.957500GHz
*RBW 30kHz VBW 30kHz

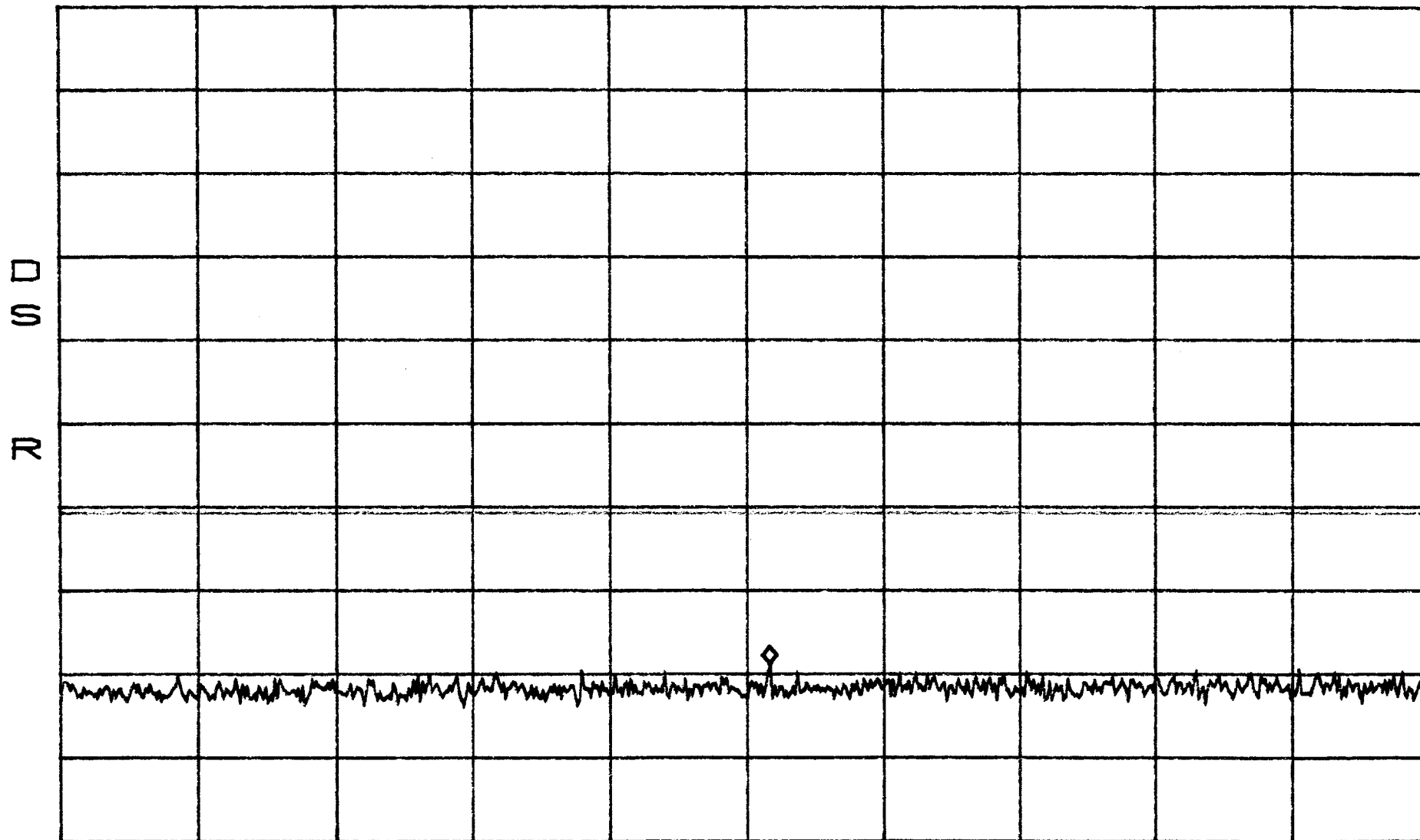
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band D,B,E
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.87dBm
531.2MHz



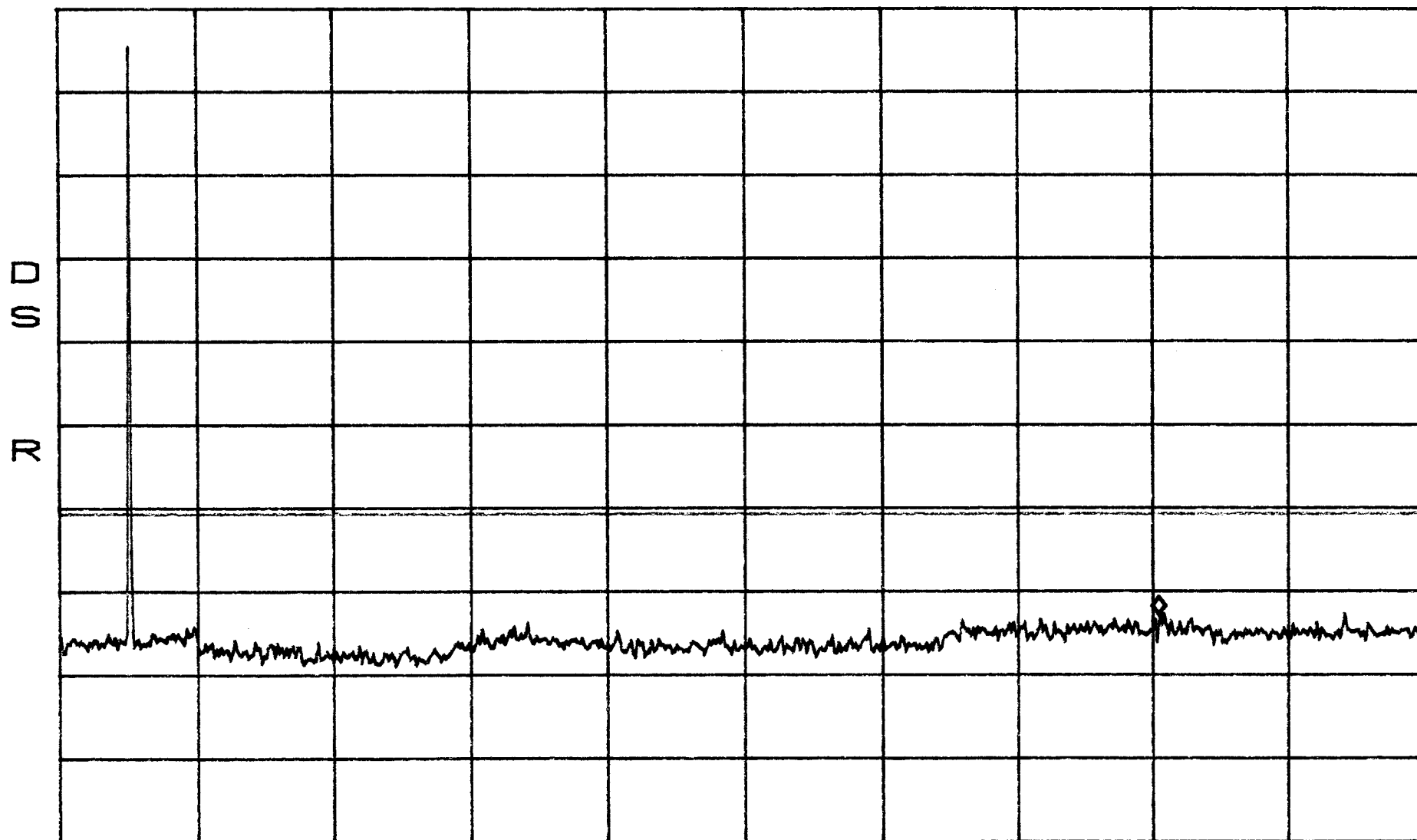
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band D,B,E
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.87dBm
16.30GHz

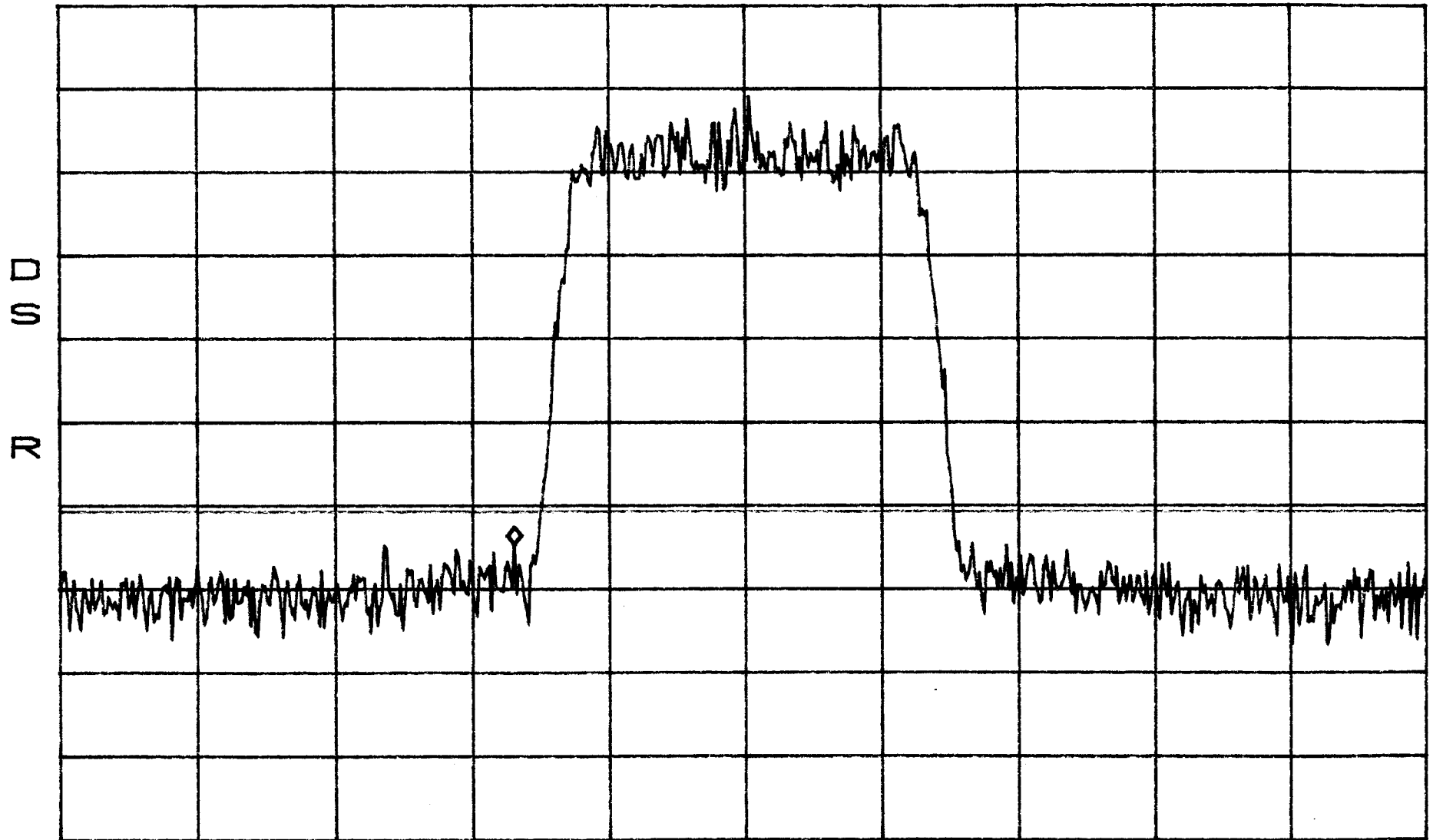


START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Conducted Emissions Band D, B, E
CDMA

*ATTEN 20dB
RL 47.8dBm

MKR -16.70dBm
1.956650GHz



CENTER 1.957500GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
SWP 50ms

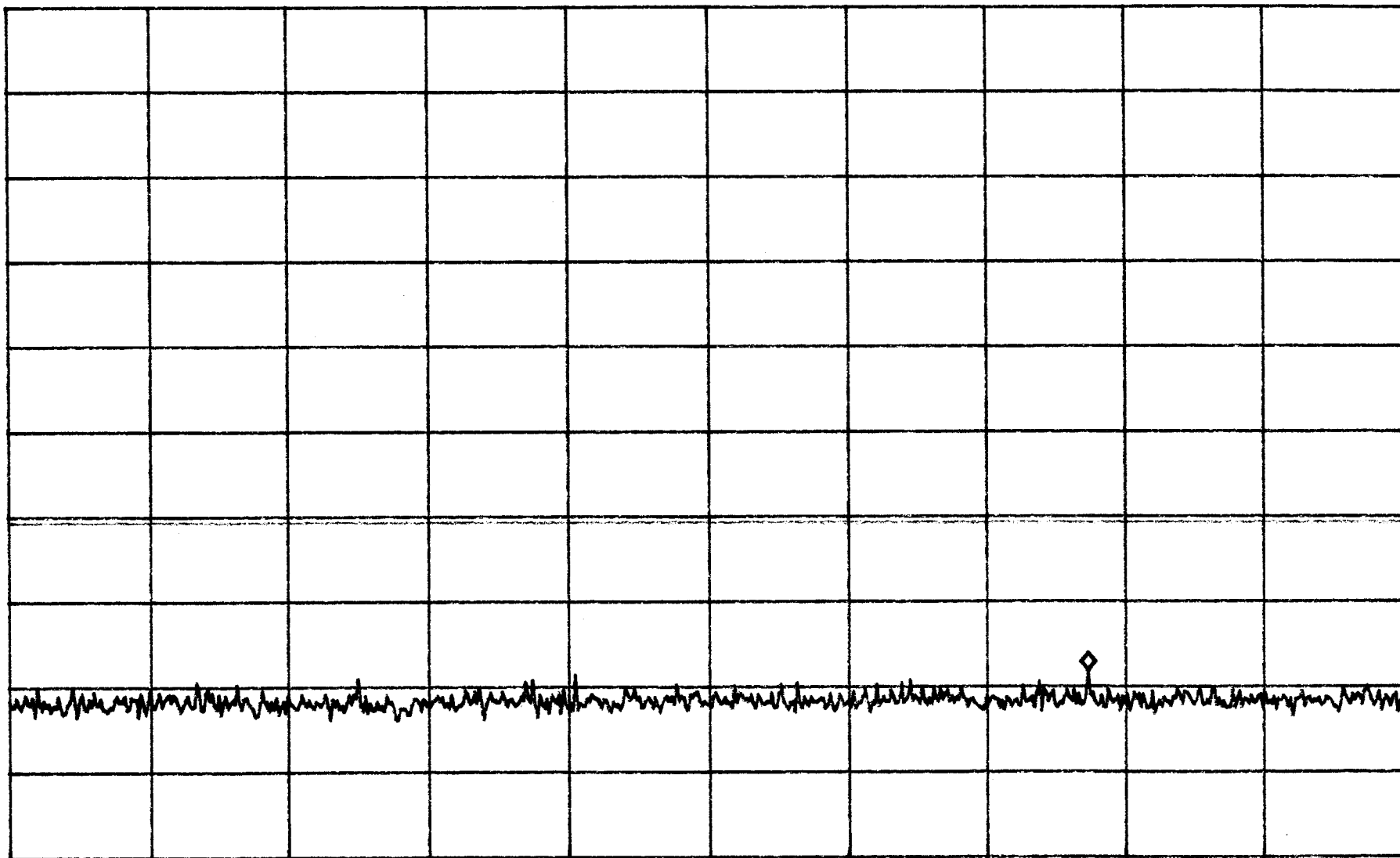
Conducted Emissions Band D,B,E
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.20dBm
780.1MHz

SDR



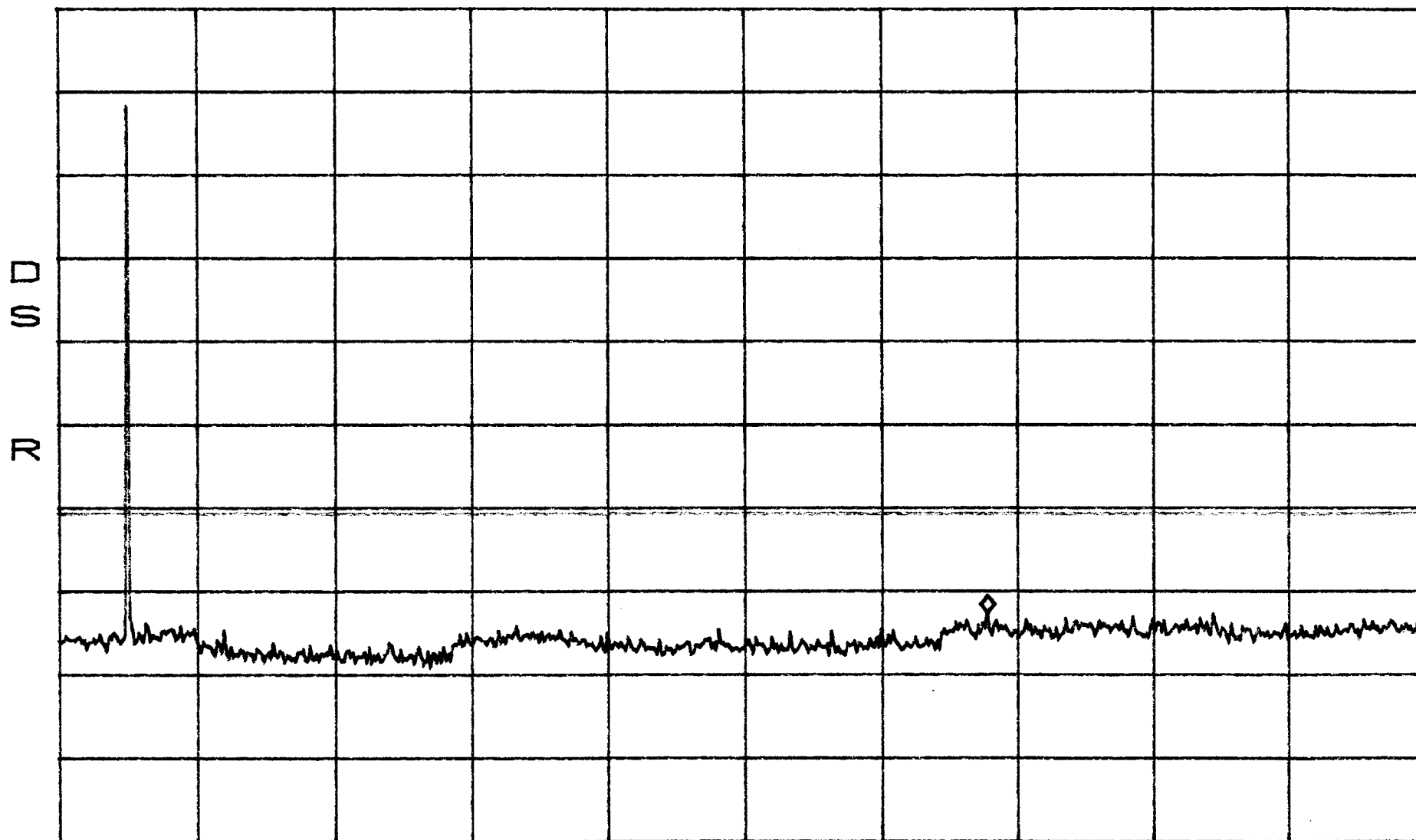
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band D,B,E
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
13.89GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

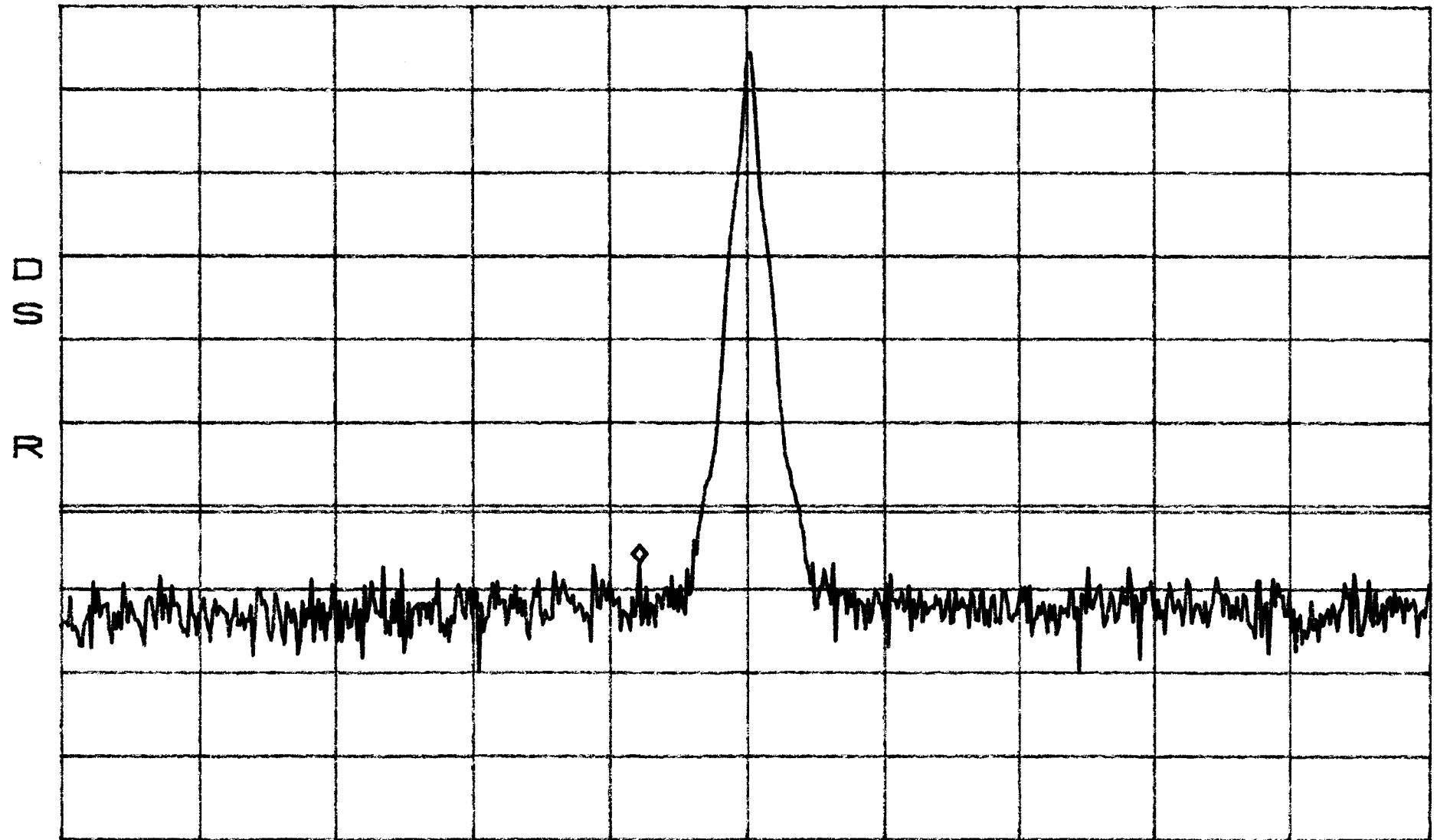
Conducted Emissions
FM

Band B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -18.87dBm
1.962108GHz



CENTER 1.962500GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
SWP 50ms

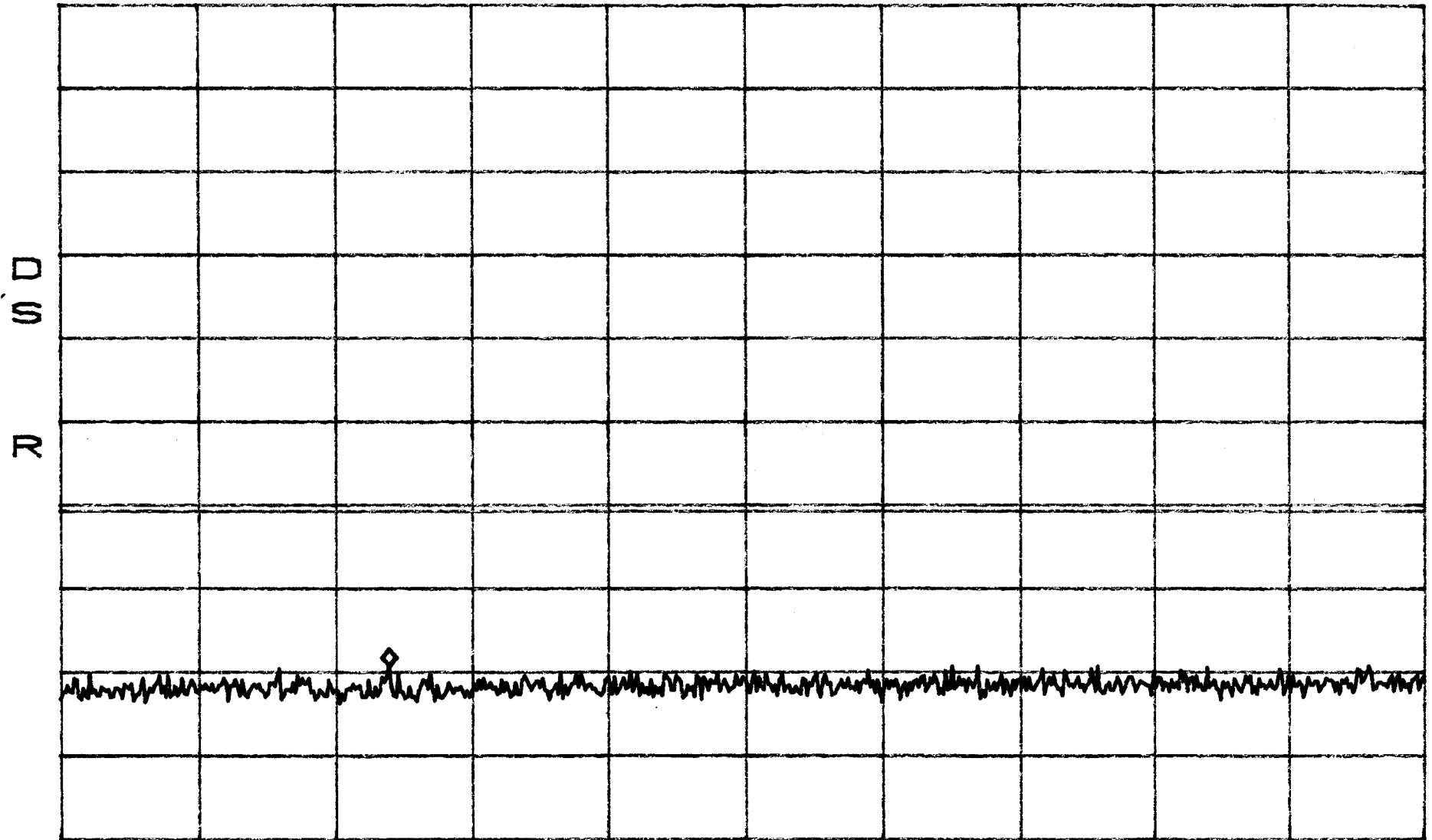
Conducted Emissions
FM

Band B,E,F

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.37dBm
262.8MHz



START 30.0MHz
*RBW 30kHz

VBW 30kHz

STOP 1.0000GHz
SWP 2.7sec

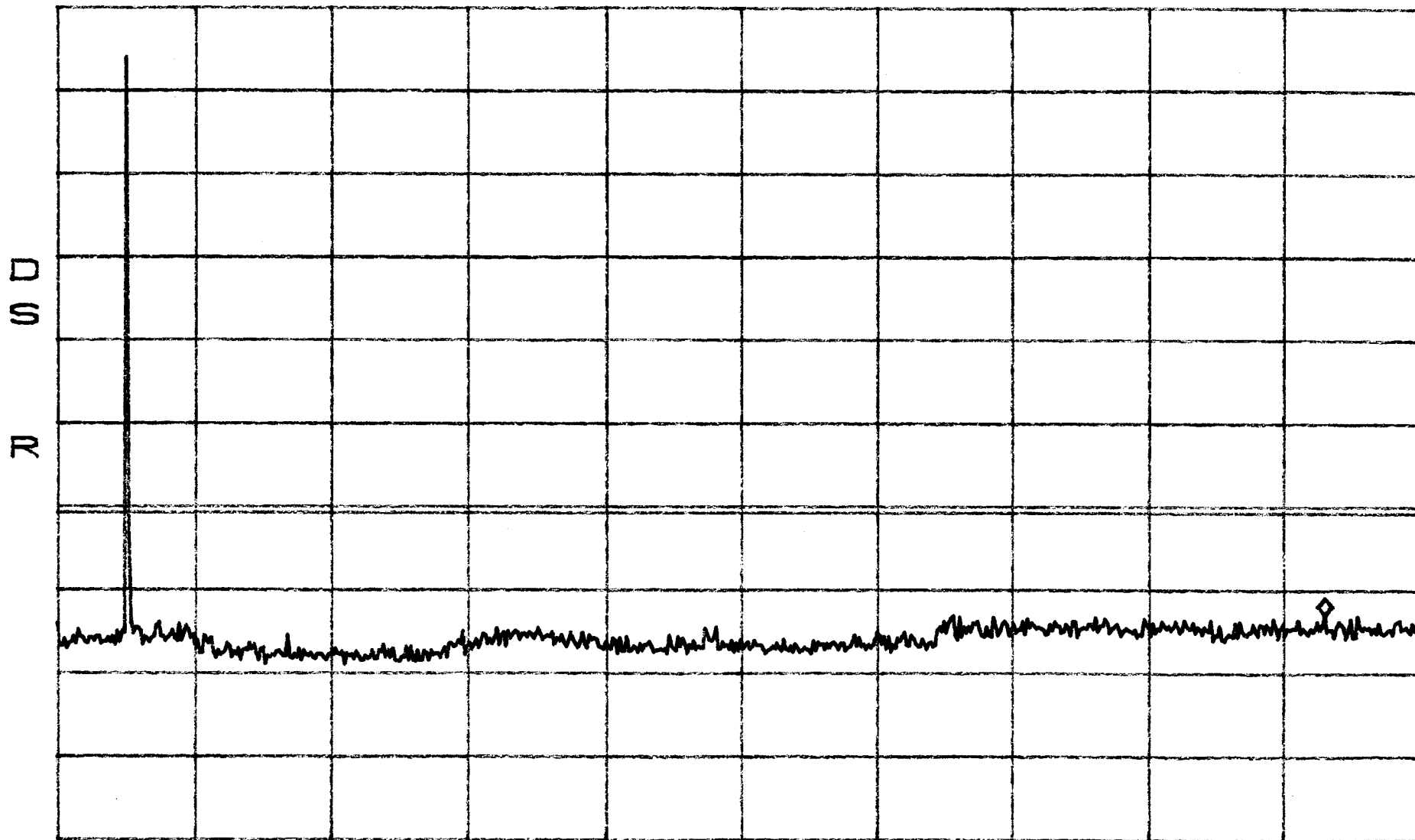
Conducted Emissions
FM

Band B,E,f

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -25.03dBm
18.67GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

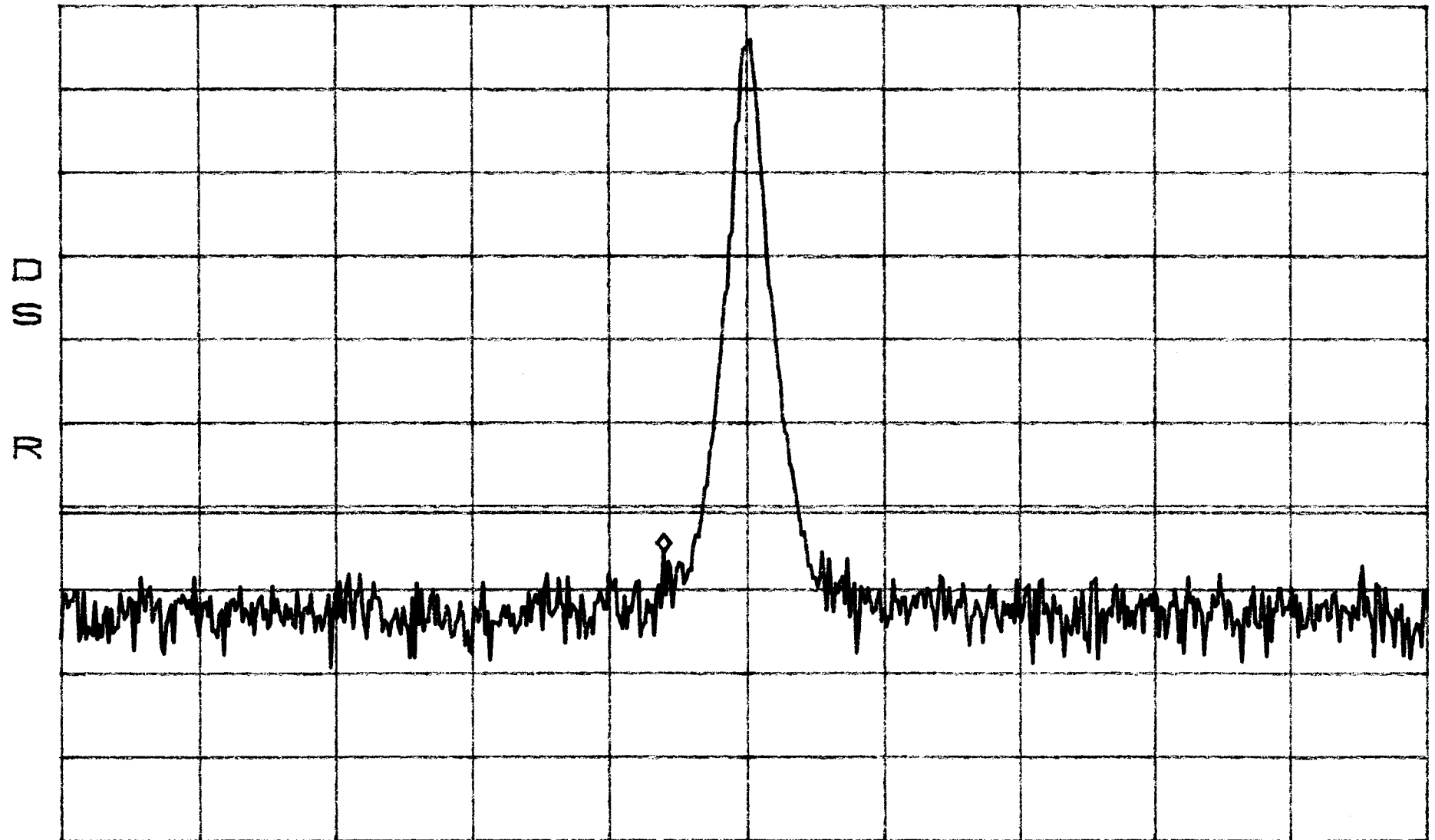
SWP 4.8sec

Conducted Emissions Band B,E,F
TDMA

*ATTEN 20dB
RL 47.8dBm

MKR -17.53dBm
1.962200GHz

10dB/BPO



CENTER 1.962500GHz
*RBW 30kHz VBW 30kHz

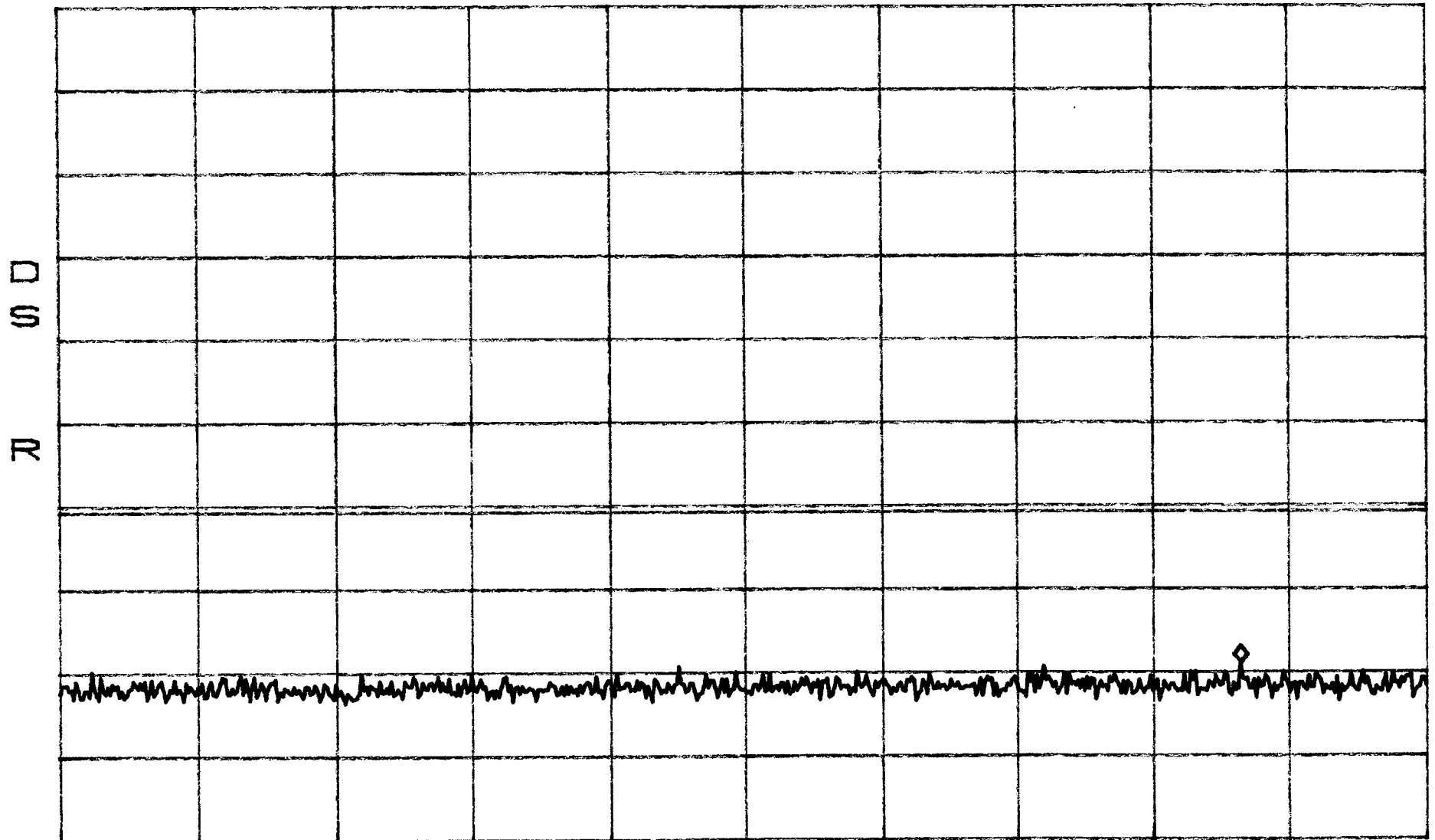
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band B/E/F
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.03dBm
869.1MHz



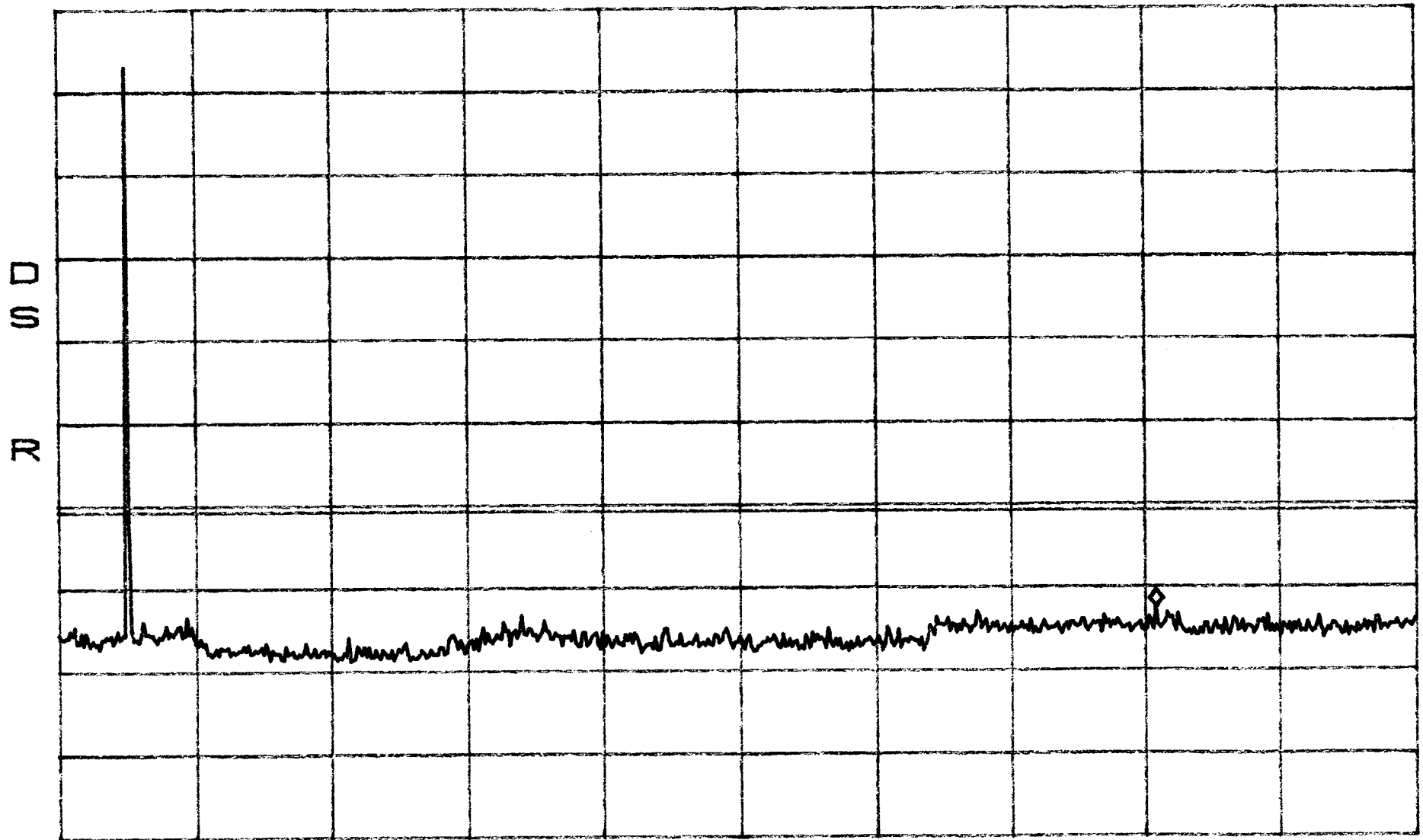
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band B,E,F
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.53dBm
16.36GHz



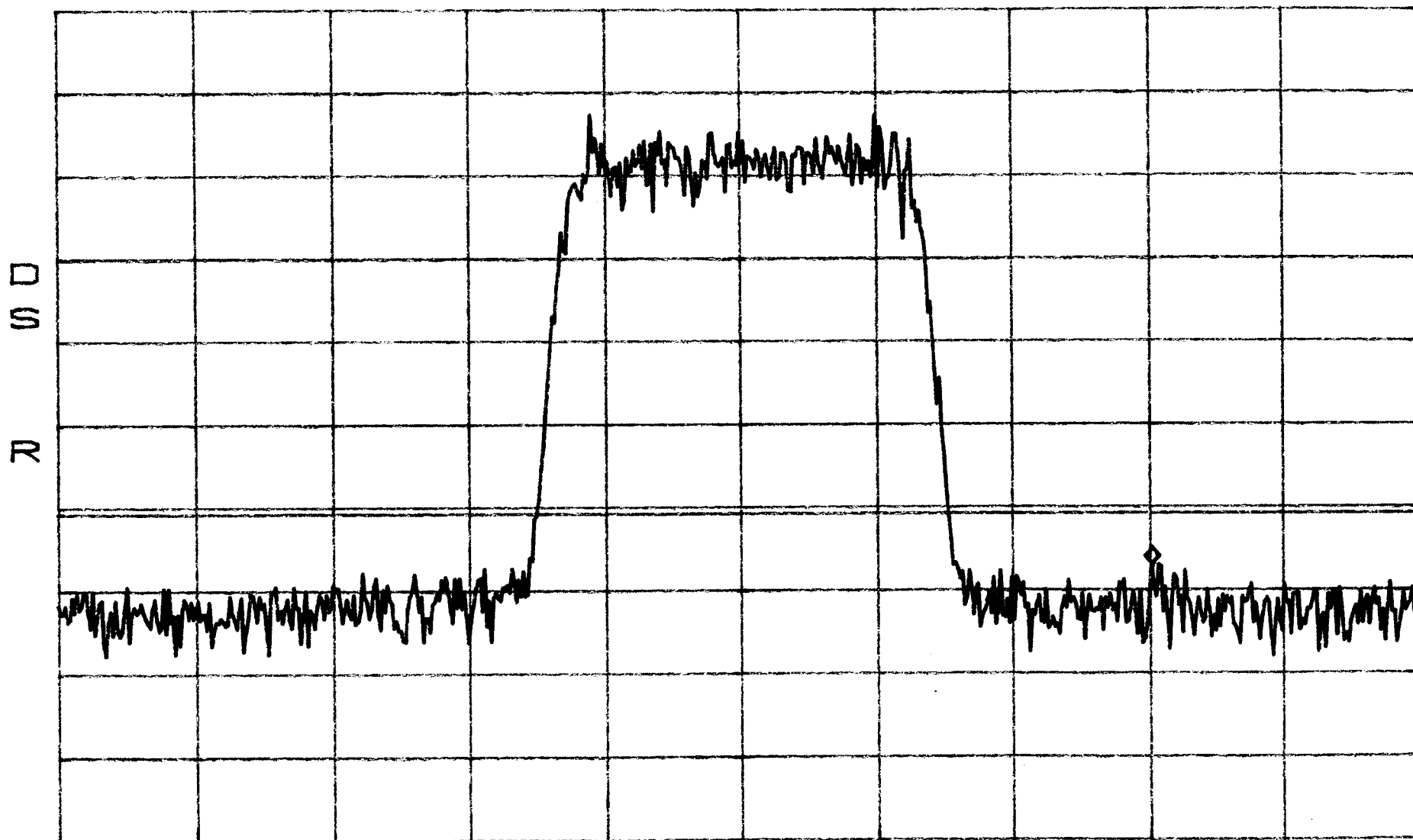
START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Conducted Emissions Band B,E,F
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -19.03dBm
1.964008GHz



CENTER 1.962500GHz
*RBW 30kHz VBW 30kHz

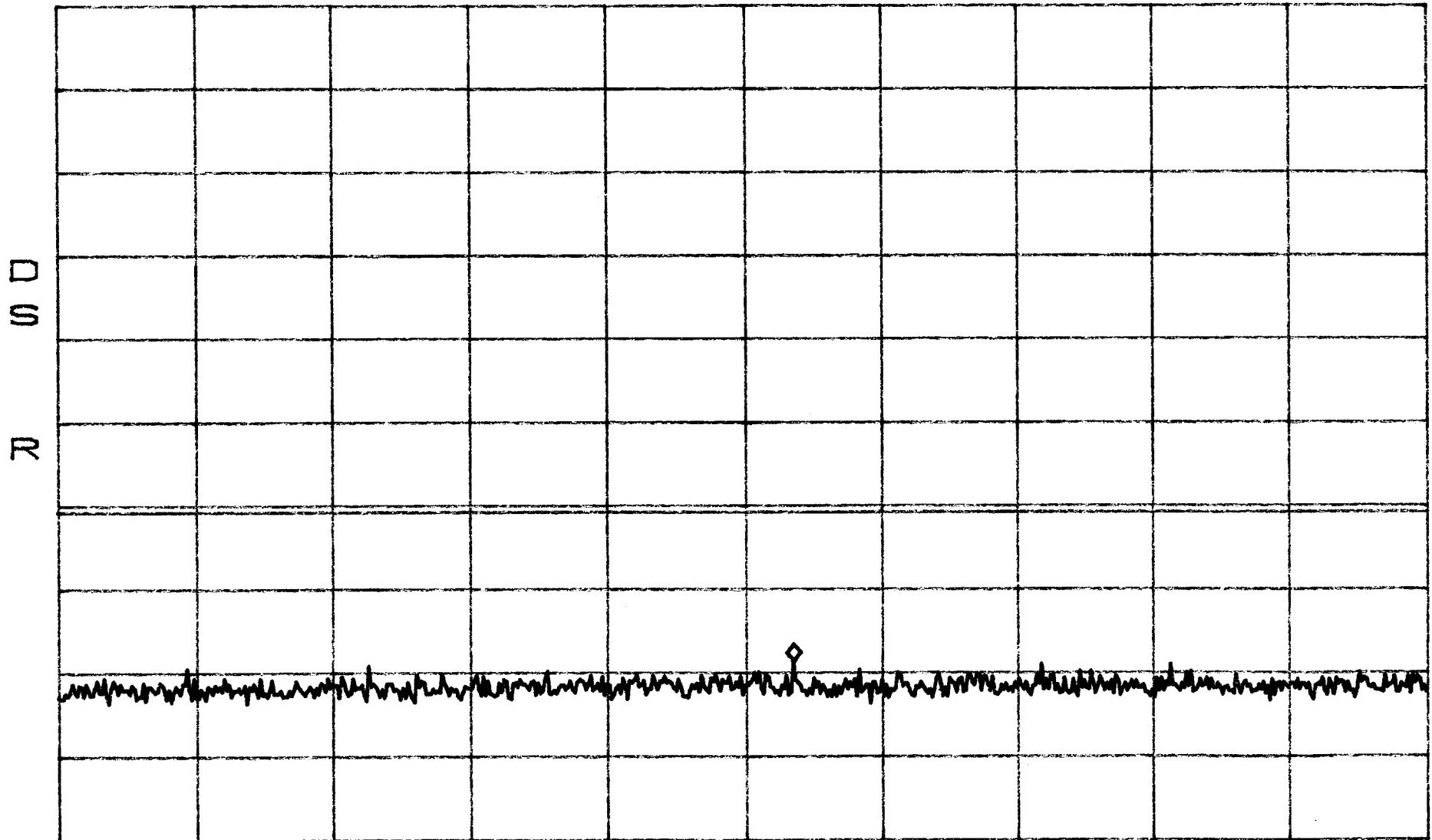
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band B,E,F
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.70dBm
549.0MHz



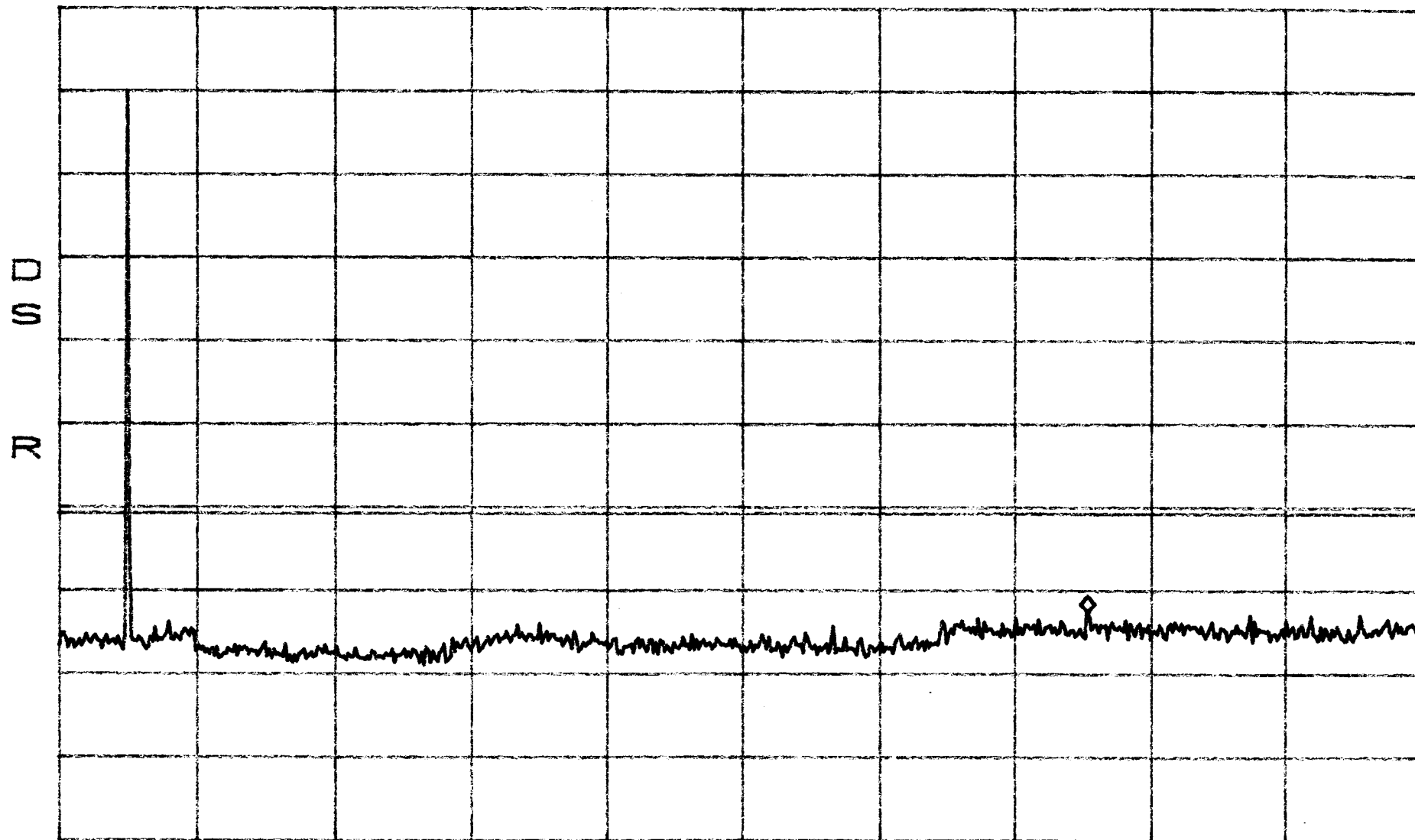
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band B,E,F
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
15.31GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

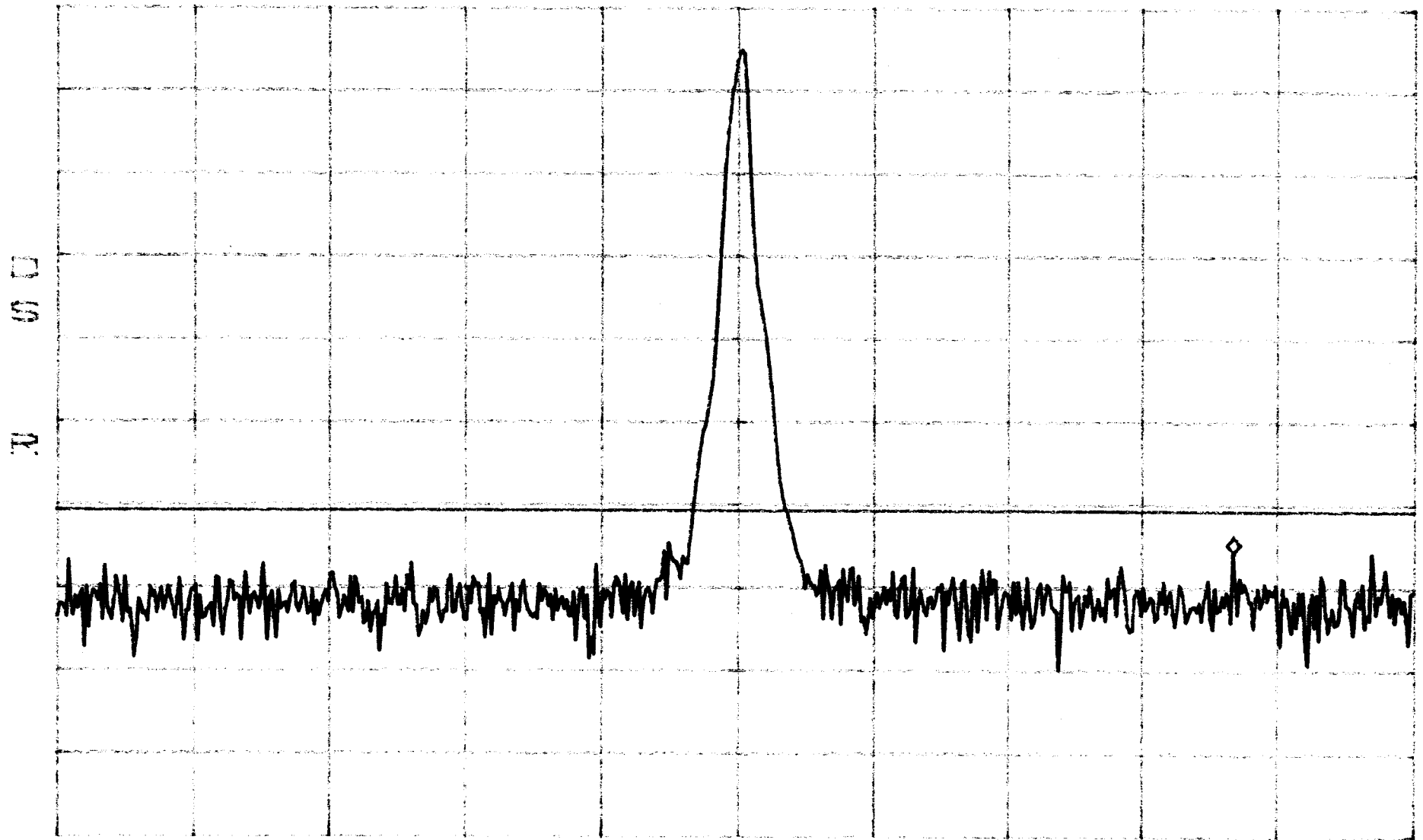
Conducted Emissions
FM

Band E,F,C

*ATTN 20dB
RL 47.8dBm

10dB/

MKR -17.87dBm
1.978842GHz



CENTER 1.977000GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
SWP 50ms

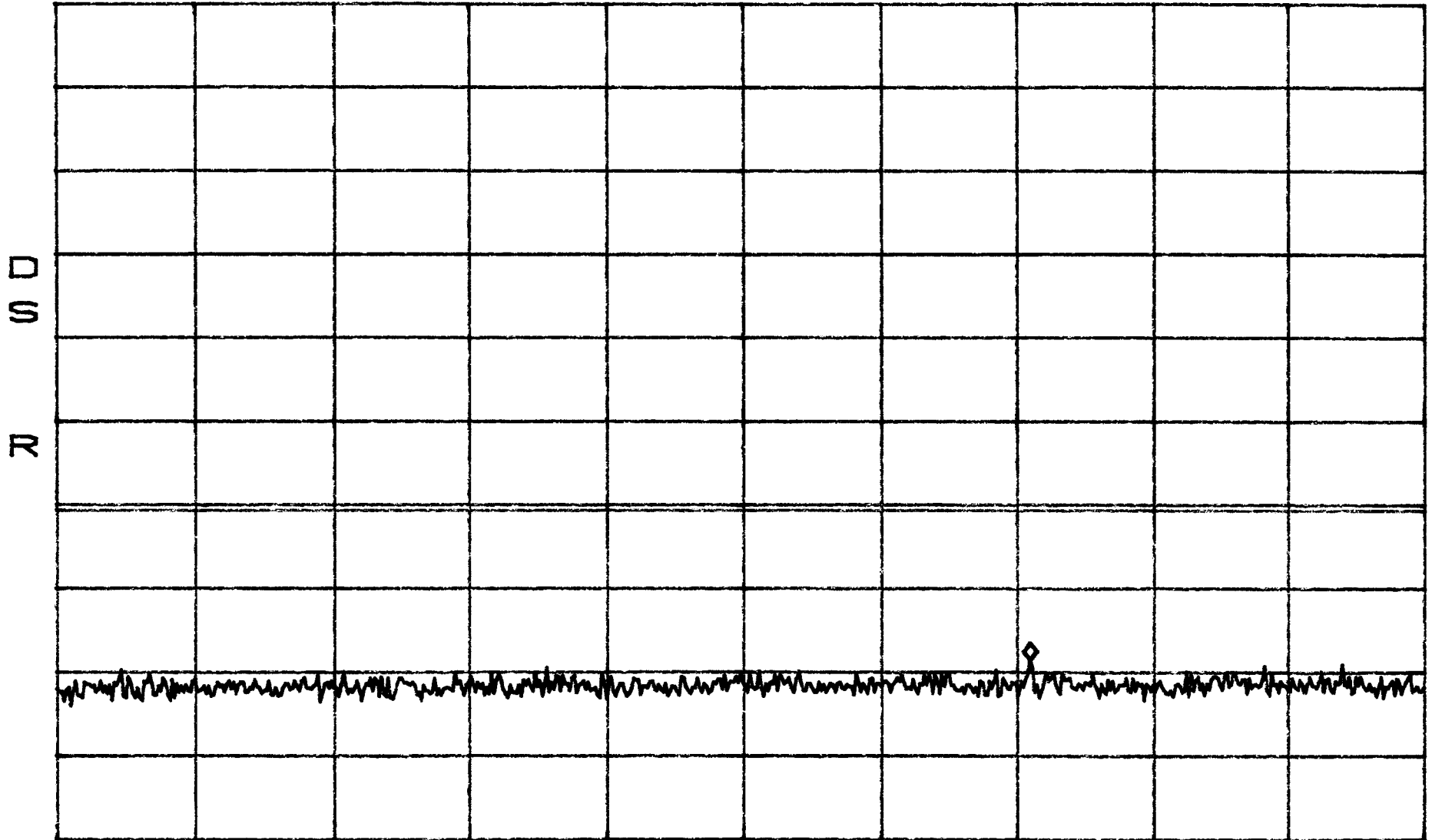
Conducted Emissions
FM

Band E, F, C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.70dBm
718.7MHz



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

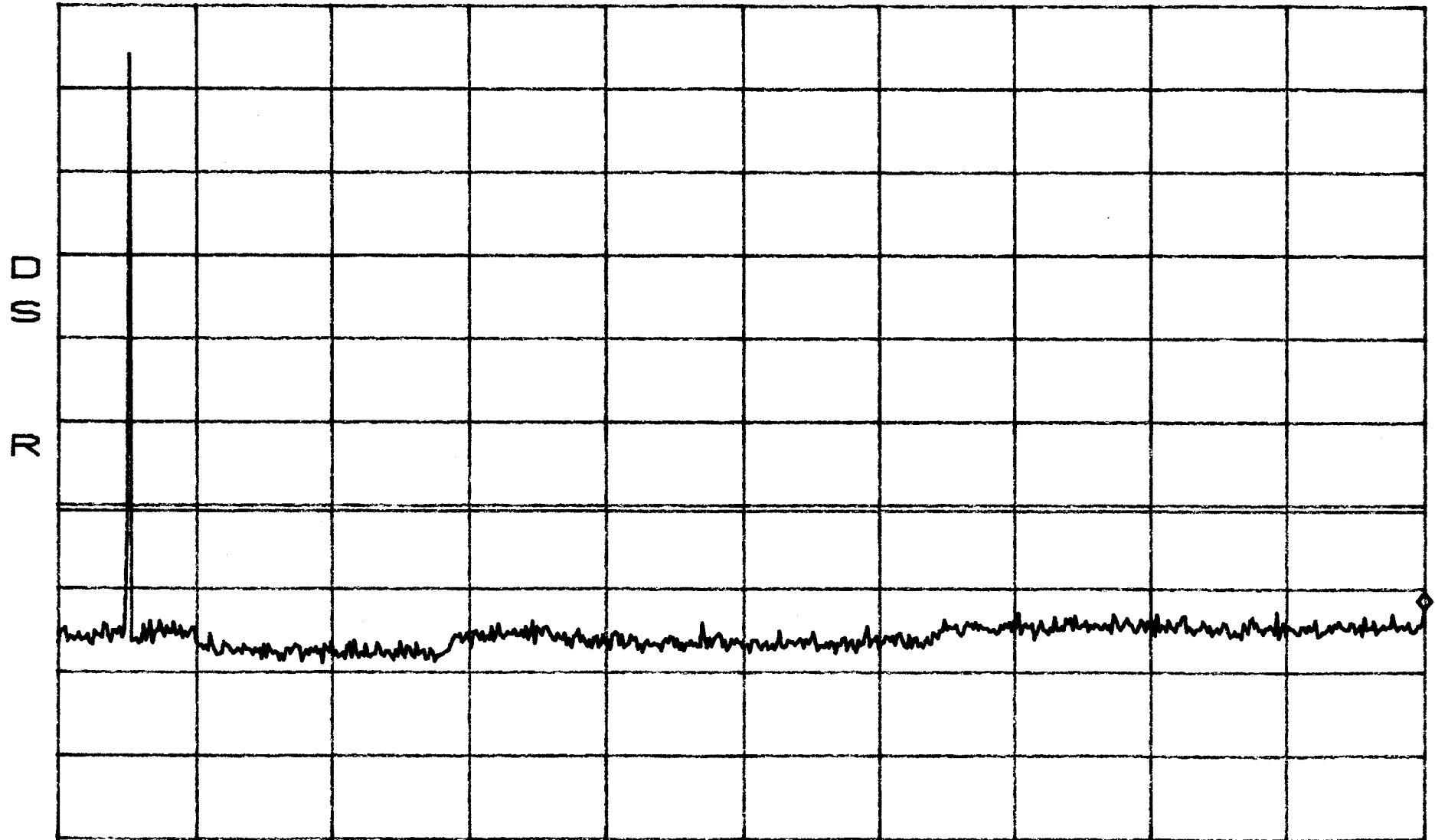
Conducted Emissions
FM

Band E,F,C

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.53dBm
20.00GHz



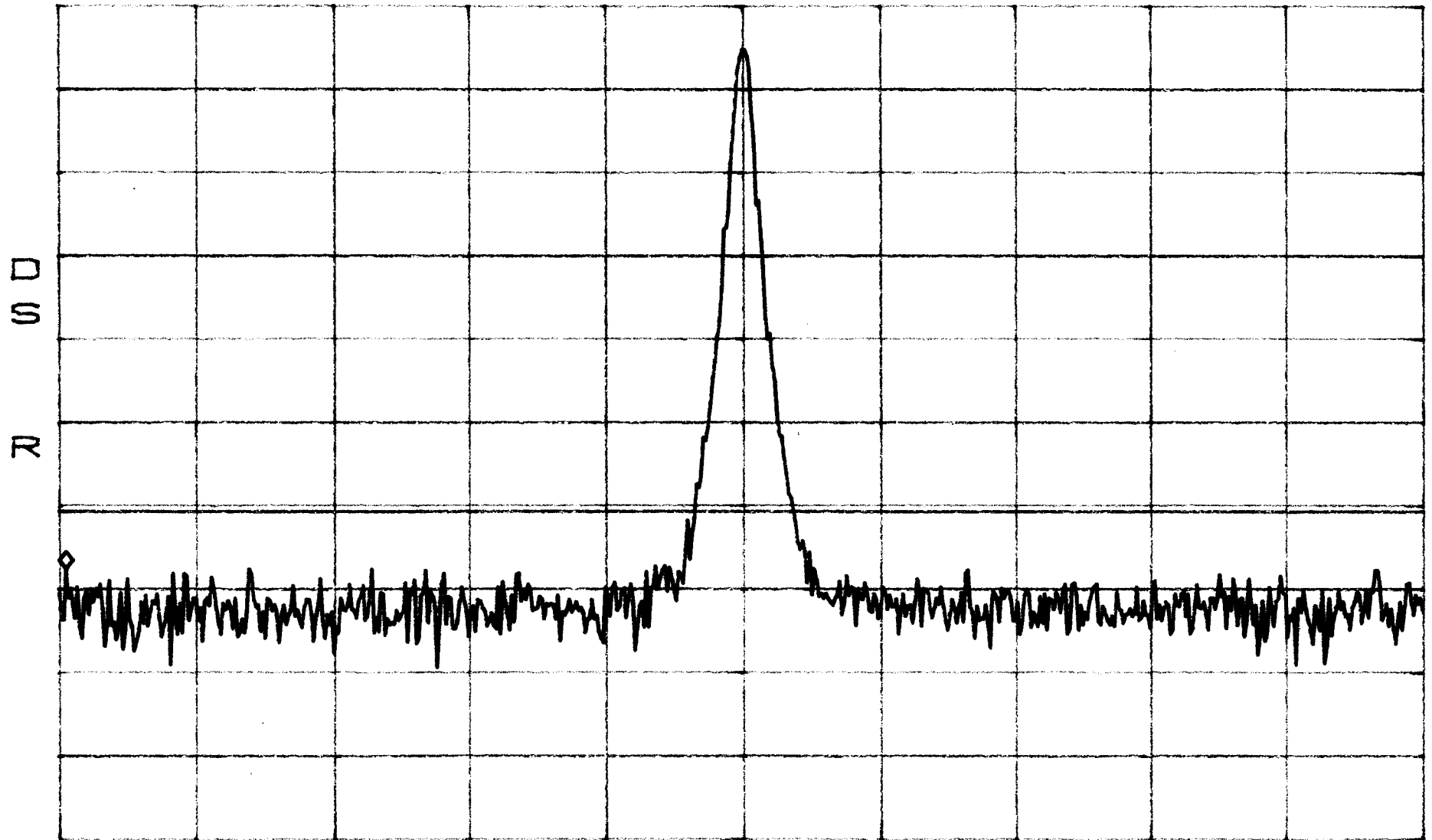
START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Conducted Emissions Band E,F,G
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -19.70dBm
1.974525GHz



CENTER 1.977000GHz
*RBW 30kHz VBW 30kHz

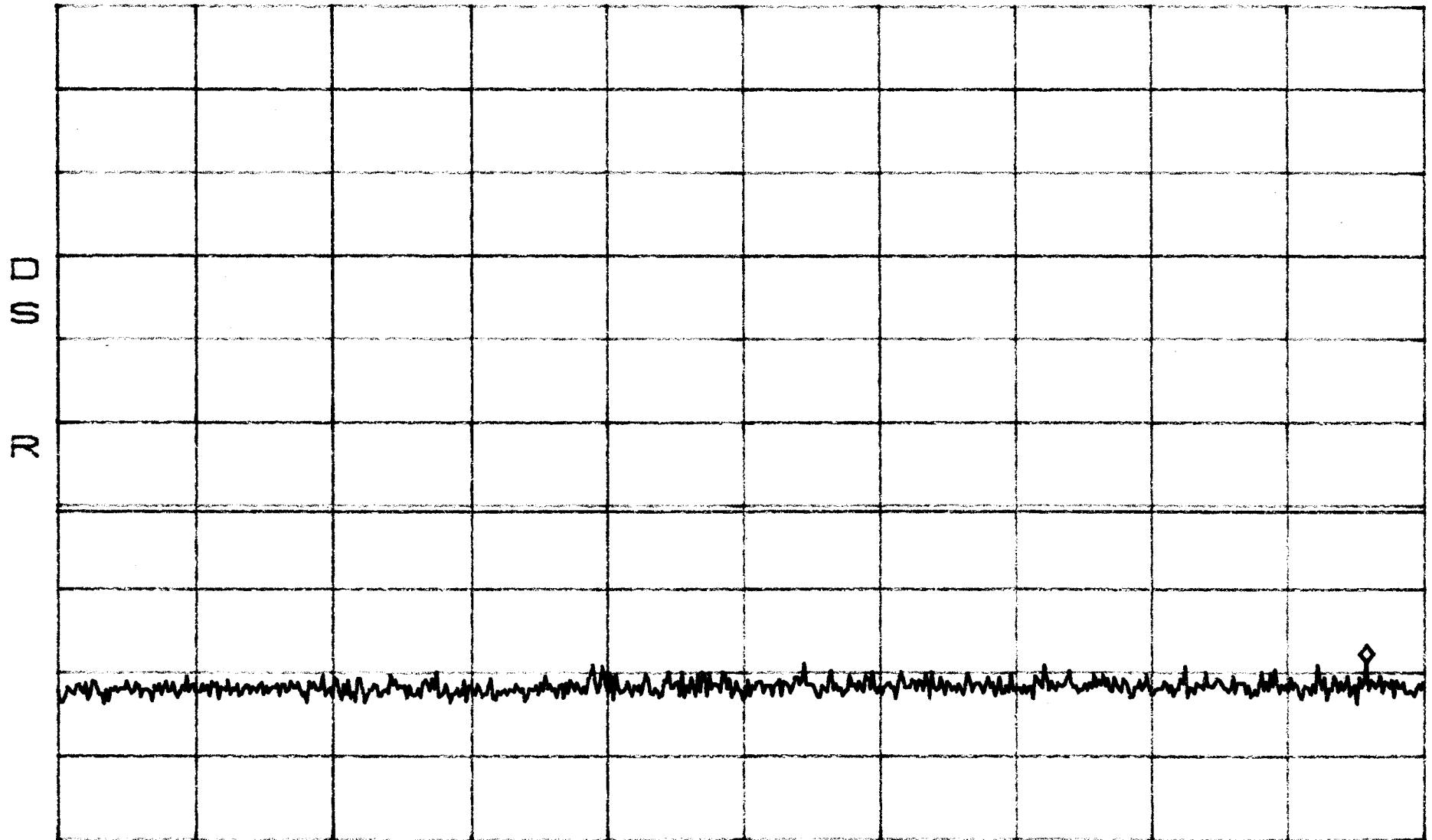
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band E,F,C
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.87dBm
959.6MHz



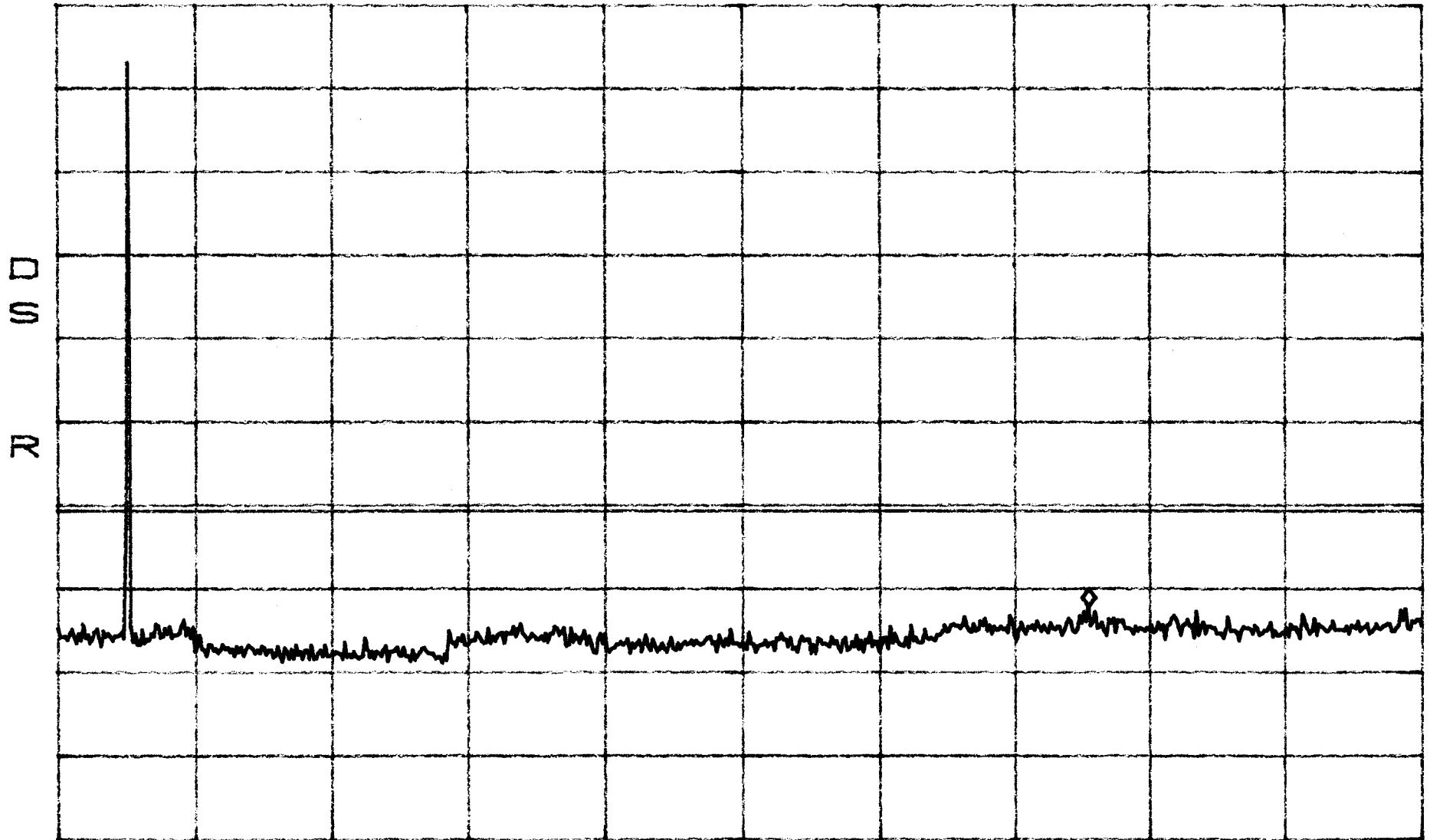
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band E,F,C
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.20dBm
15.35GHz



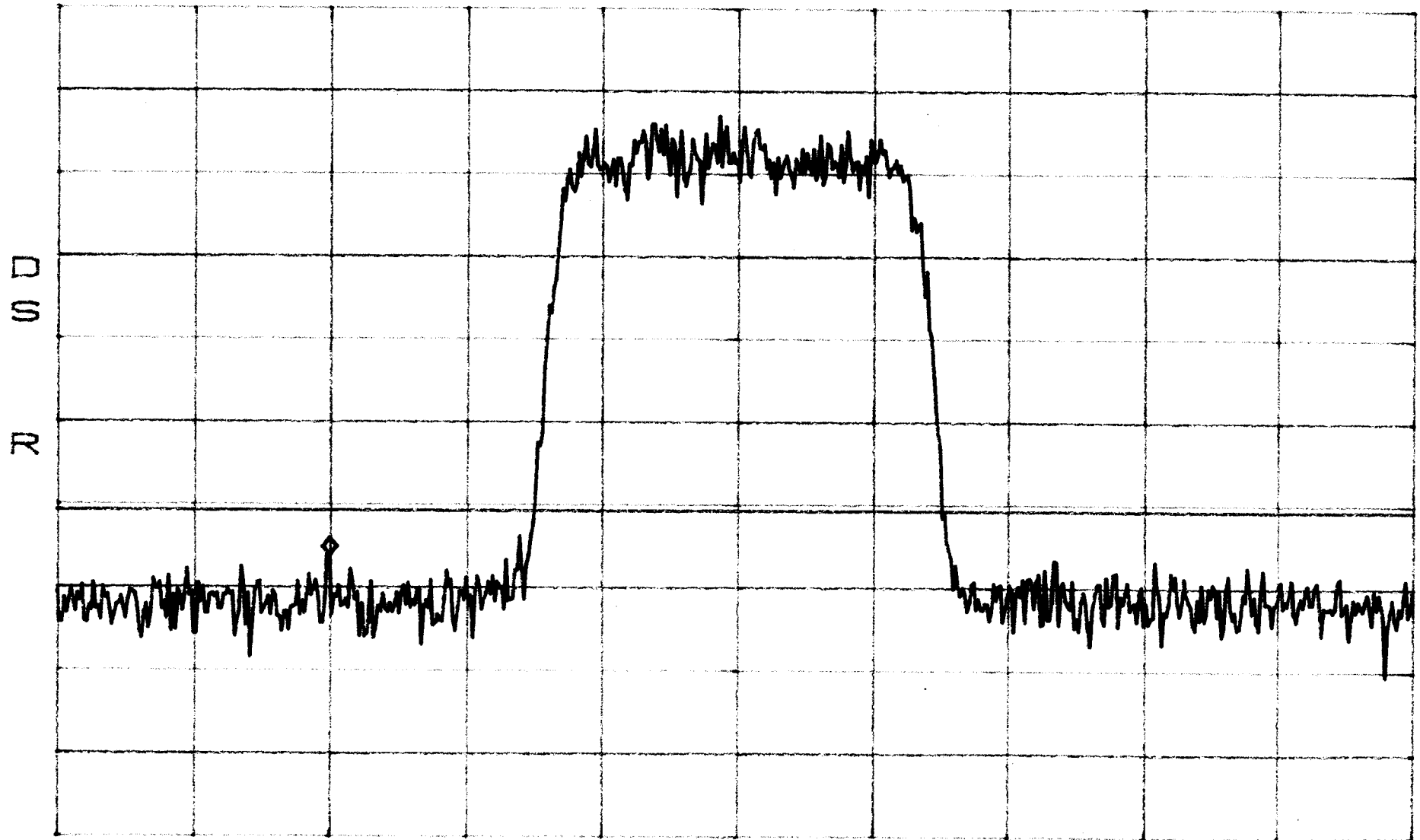
START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Conducted Emissions Band E,F,C
CDMA

*ATTEN 20dB
RL 47.8dBm

MKR -18.20dBm
1.975500GHz

10dB/



CENTER 1.977000GHz
*RBW 30kHz VBW 30kHz

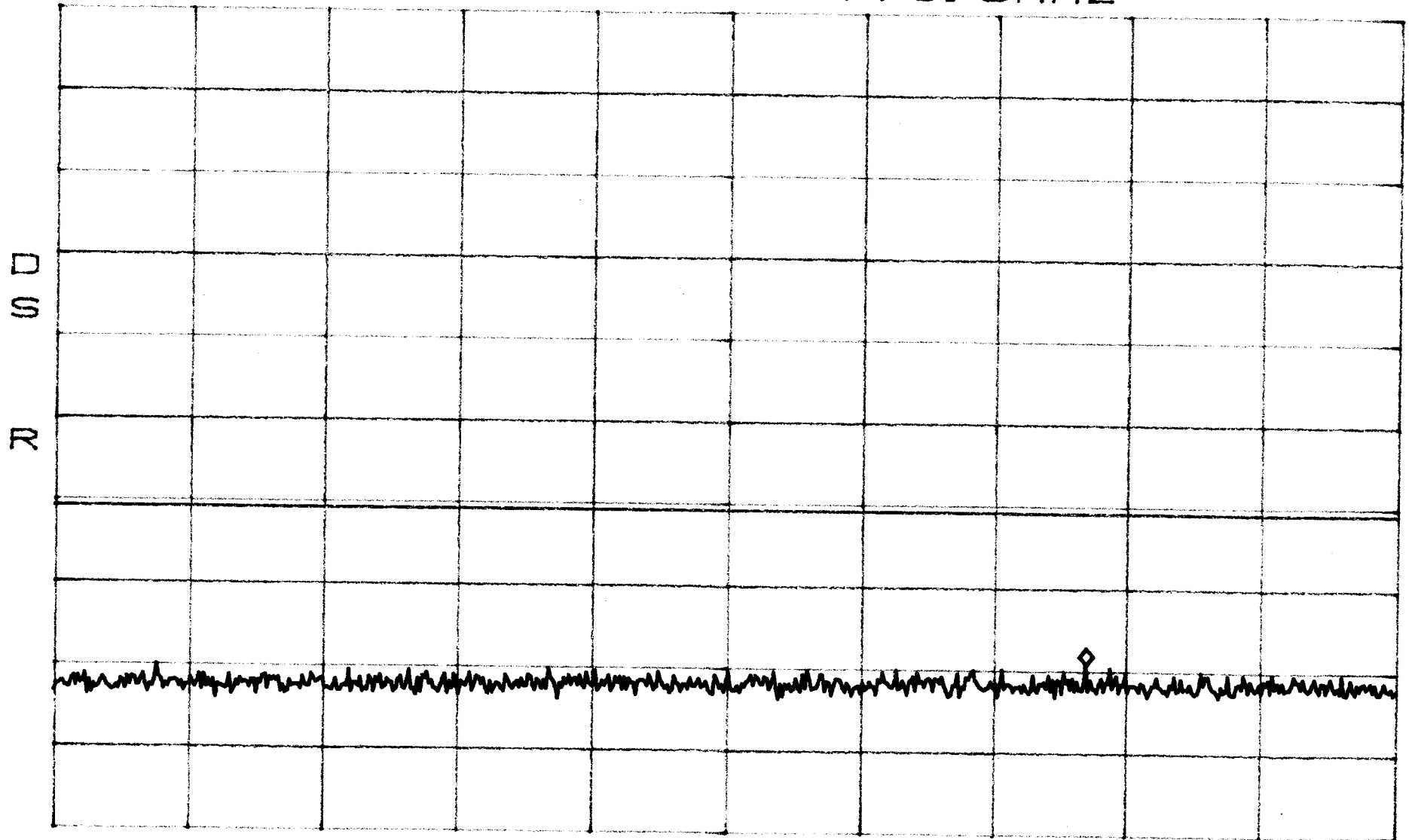
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band E,F,C
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.20dBm
776.9MHz



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band E,F,G
CDMA

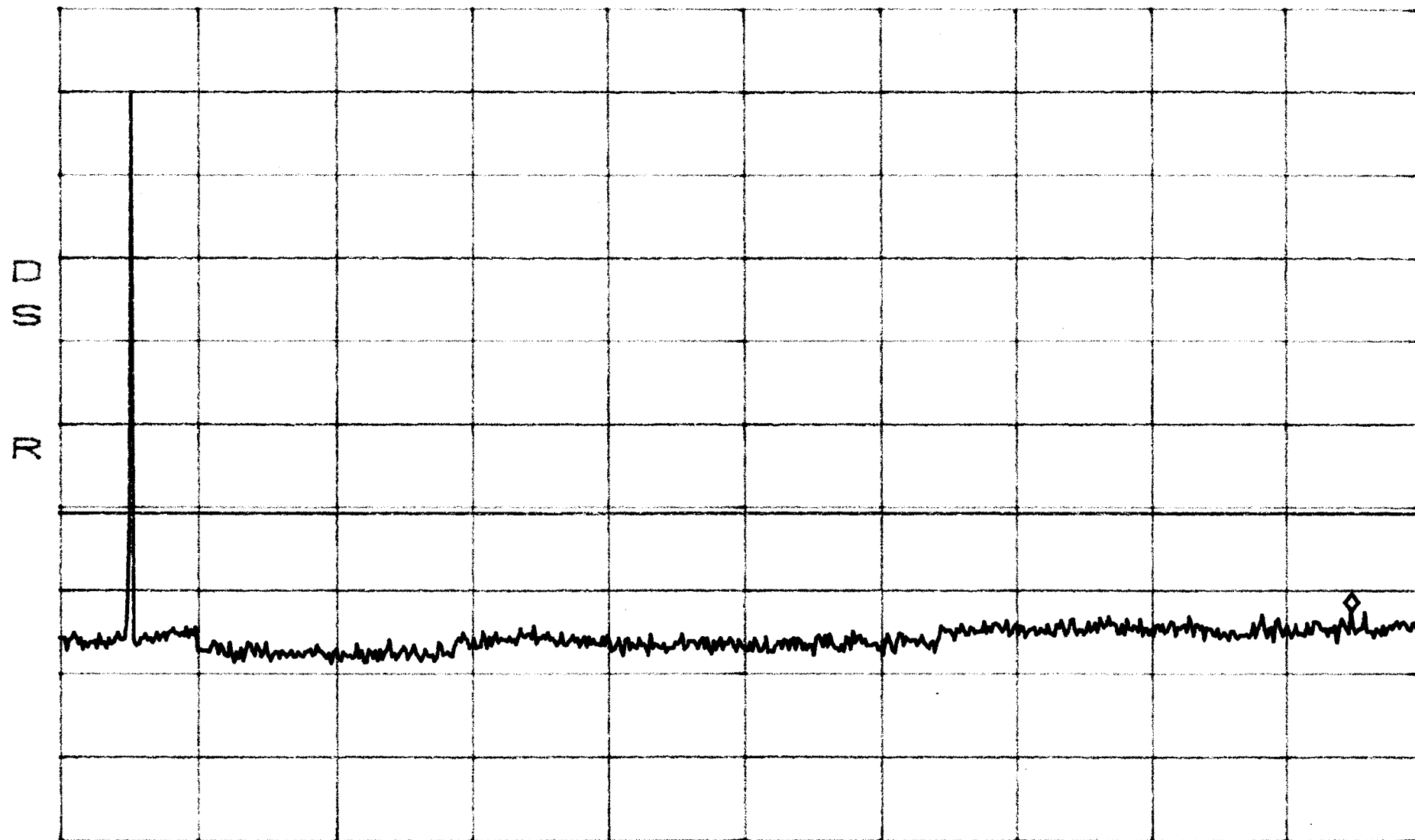
*ATTEN 20dB

MKR -24.53dBm

RL 47.8dBm

10dB/

19.02GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

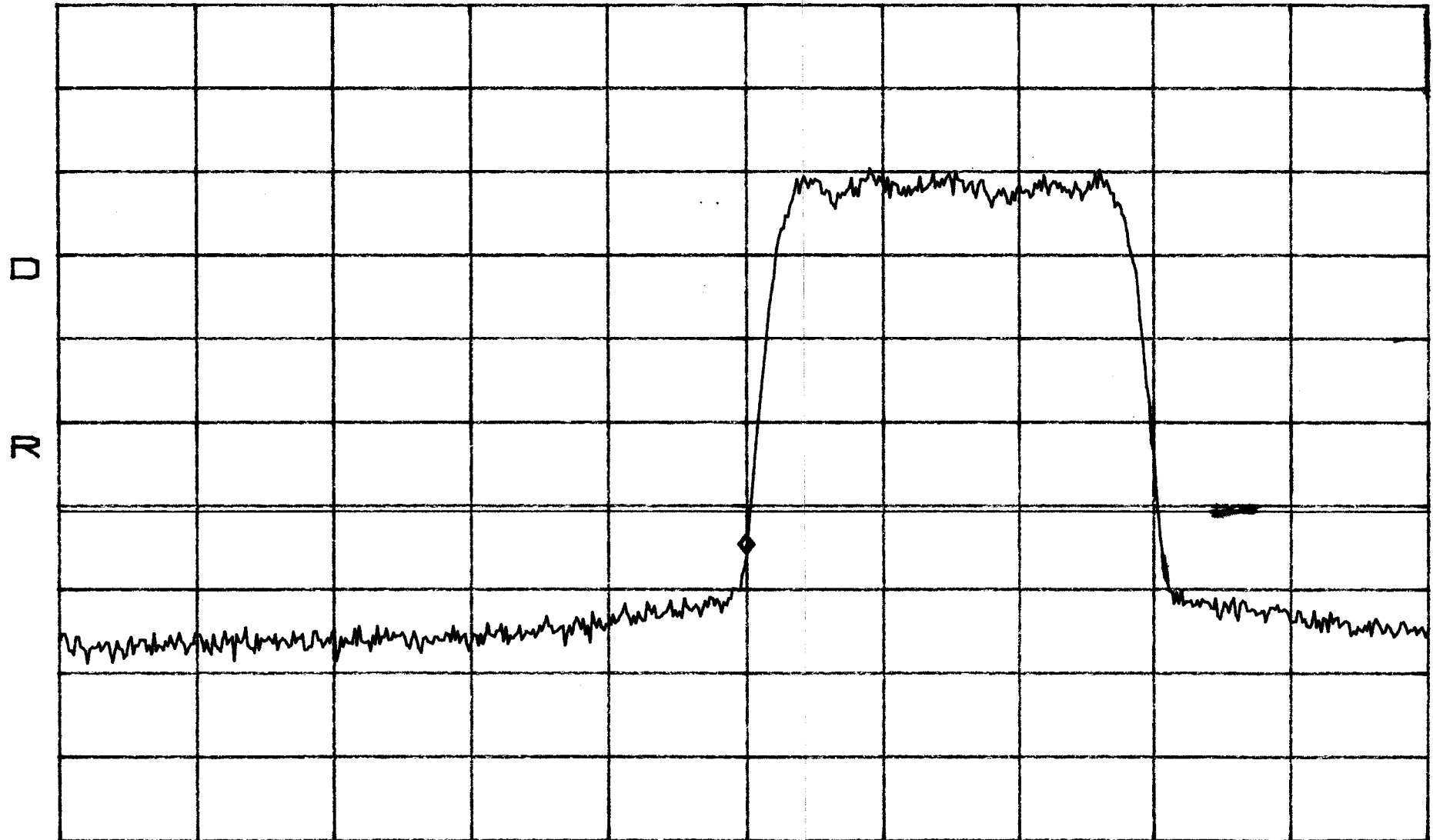
SWP 4.8sec

Conducted Emissions
Band Edge
CDMA
VAVG 50
10dB/

Band A

*ATTEN 20dB
RL 47.8dBm

MKR -17.70dBm
1.930000GHz



CENTER 1.930000GHz
*RBW 30kHz VBW 30kHz

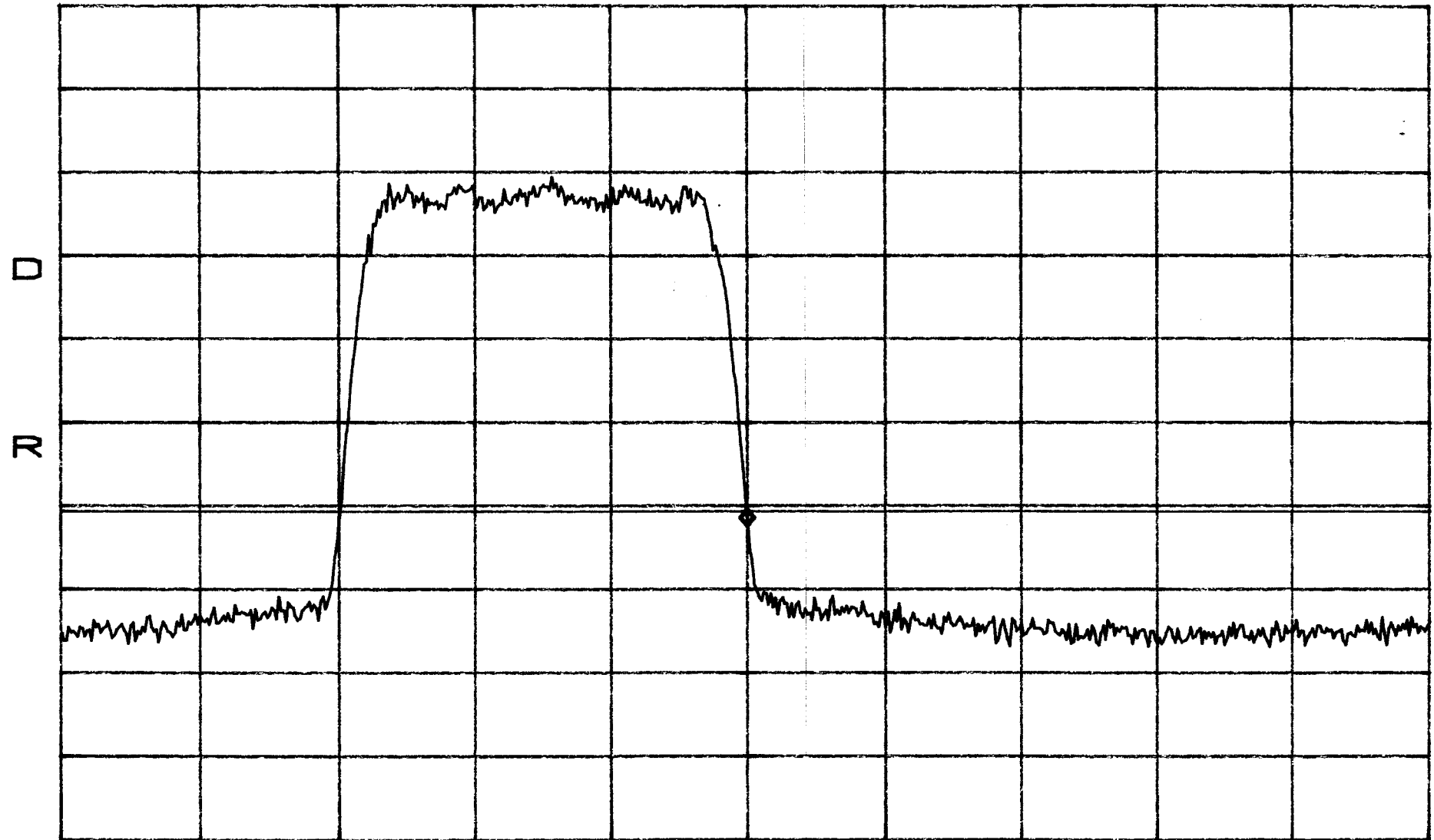
SPAN 5.000MHz
*SWP 50ms

Conducted Emissions
Band Edge
CDMA
VAVG 50
10dB/

Band A

*ATTEN 20dB
RL 47.8dBm

MKR -14.53dBm
1.945000GHz



CENTER 1.945000GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
*SWP 50ms

Conducted Emissions

Band B

Band Edge

CDMA

VAVG 50

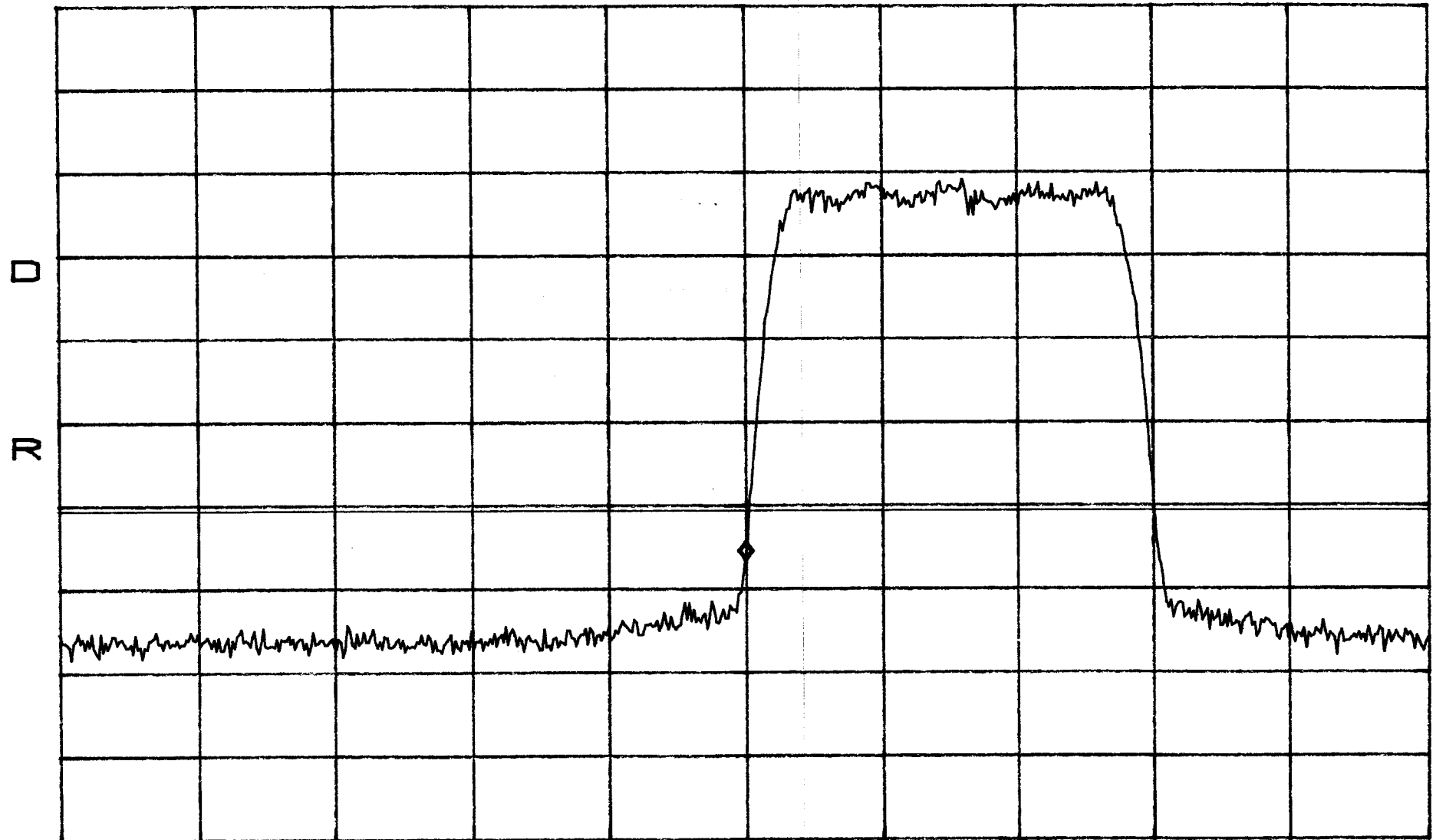
MKR -18.53dBm

*ATTEN 20dB

RL 47.8dBm

10dB/

1.950000GHz



CENTER 1.950000GHz

SPAN 5.000MHz

*RBW 30kHz

VBW 30kHz

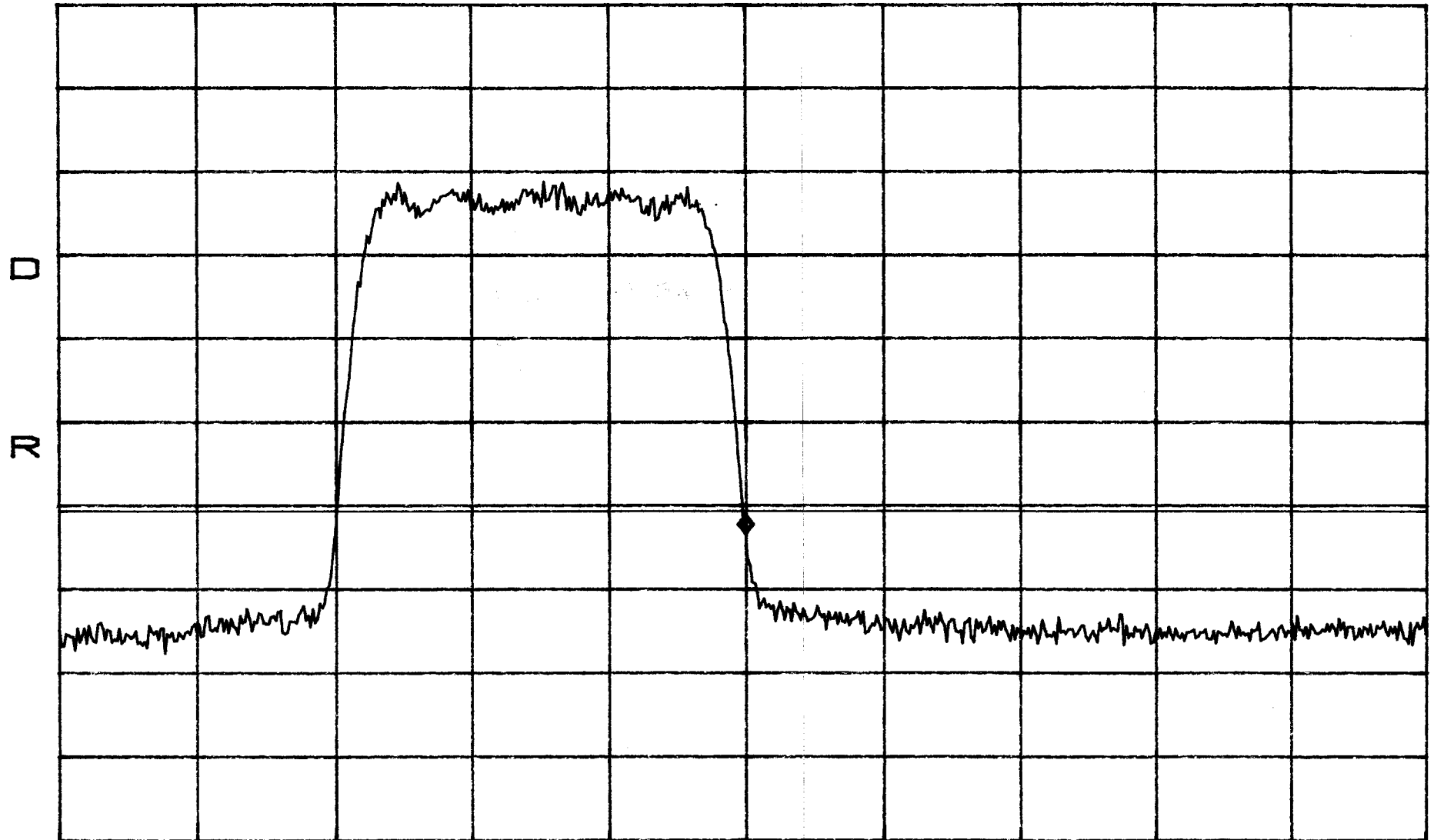
*SWP 50ms

Conducted Emissions
Band Edge
CDMA
VAVG 50
10dB/

Band B

*ATTEN 20dB
RL 47.8dBm

MKR -15.37dBm
1.965000GHz



CENTER 1.965000GHz
*RBW 30kHz VBW 30kHz

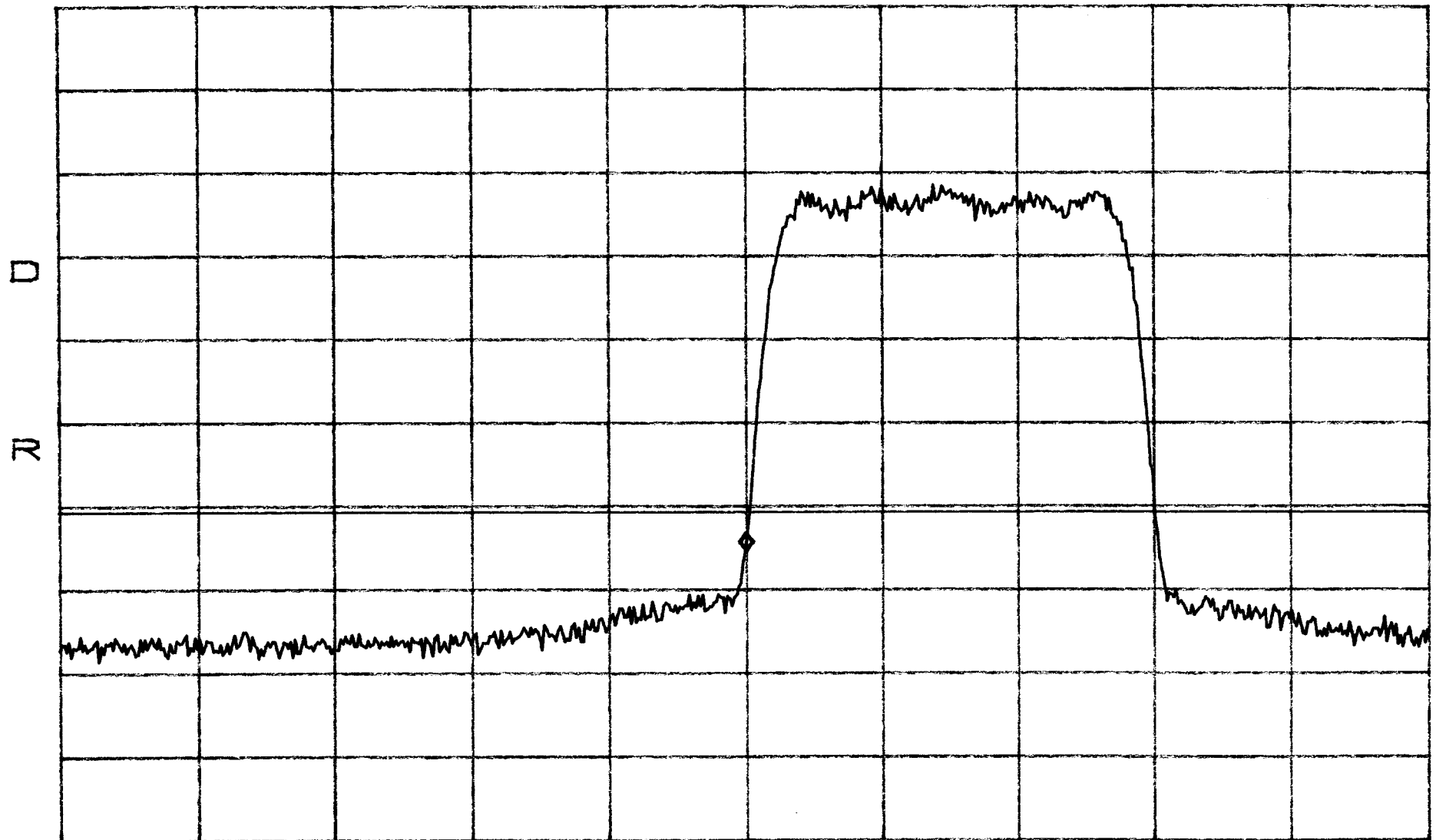
SPAN 5.000MHz
*SWP 50ms

Conducted Emissions Band C
Band Edge
CDMA

*ATTEN 20dB
RL 47.8dBm

VAVG 50
10dB/

MKR -17.37dBm
1.975000GHz



CENTER 1.975000GHz
*RBW 30kHz VBW 30kHz

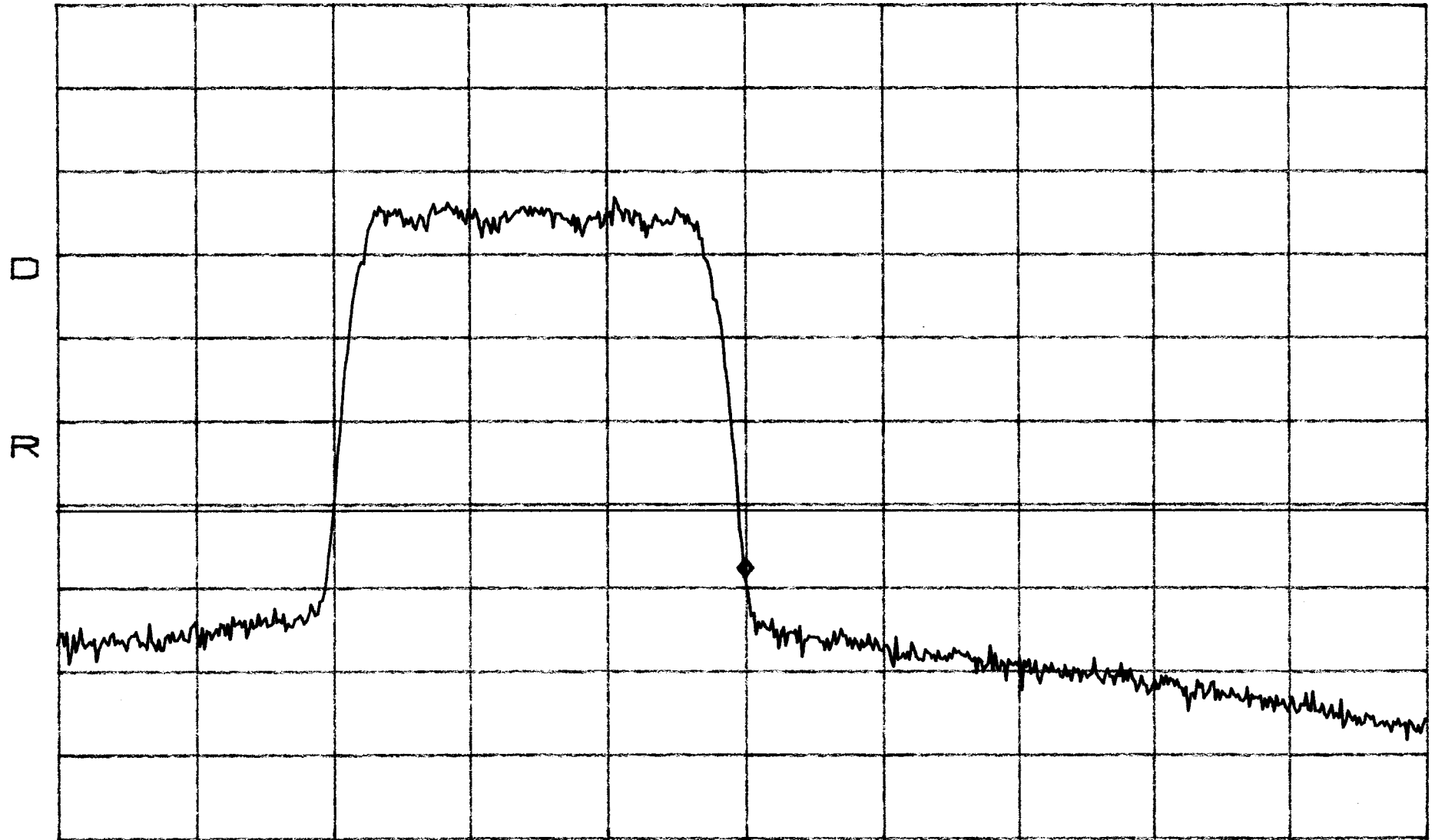
SPAN 5.000MHz
*SWP 50ms

Conducted Emissions Band C
Band Edge
CDMA

*ATTEN 20dB
RL 47.8dBm

VAVG 50
10dB/

MKR -20.70dBm
1.9900000GHz



CENTER 1.9900000GHz
*RBW 30kHz VBW 30kHz

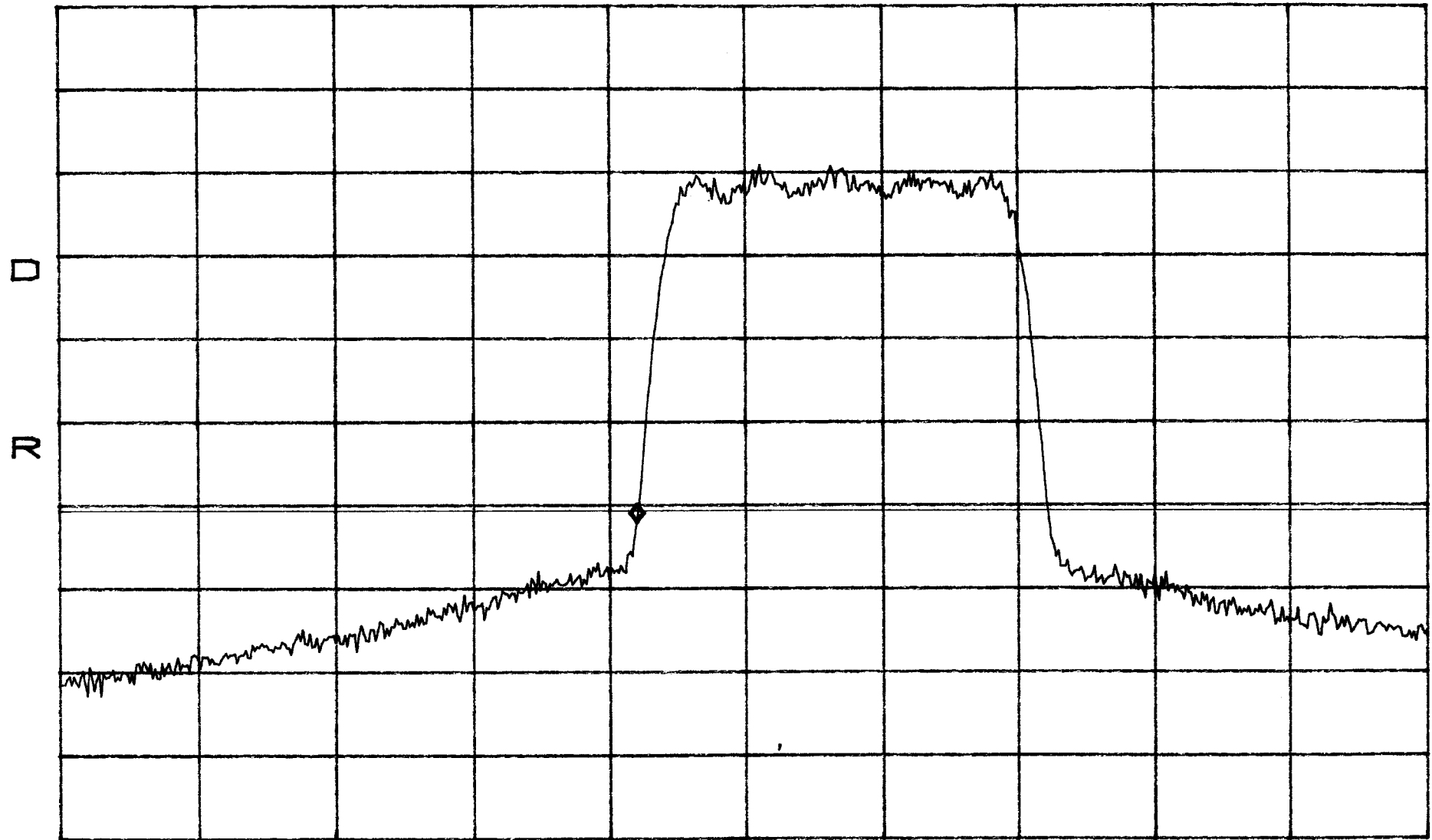
SPAN 5.000MHz
*SWP 50ms

Conducted Emissions Band D
Band Edge
CDMA

*ATTEN 20dB
RL 47.8dBm

VAVG 50
10dB/

MKR -14.03dBm
1.945000GHz



CENTER 1.945400GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
*SWP 50ms

Conducted Emissions

Band D

Band Edge

CDMA

VAVG 50

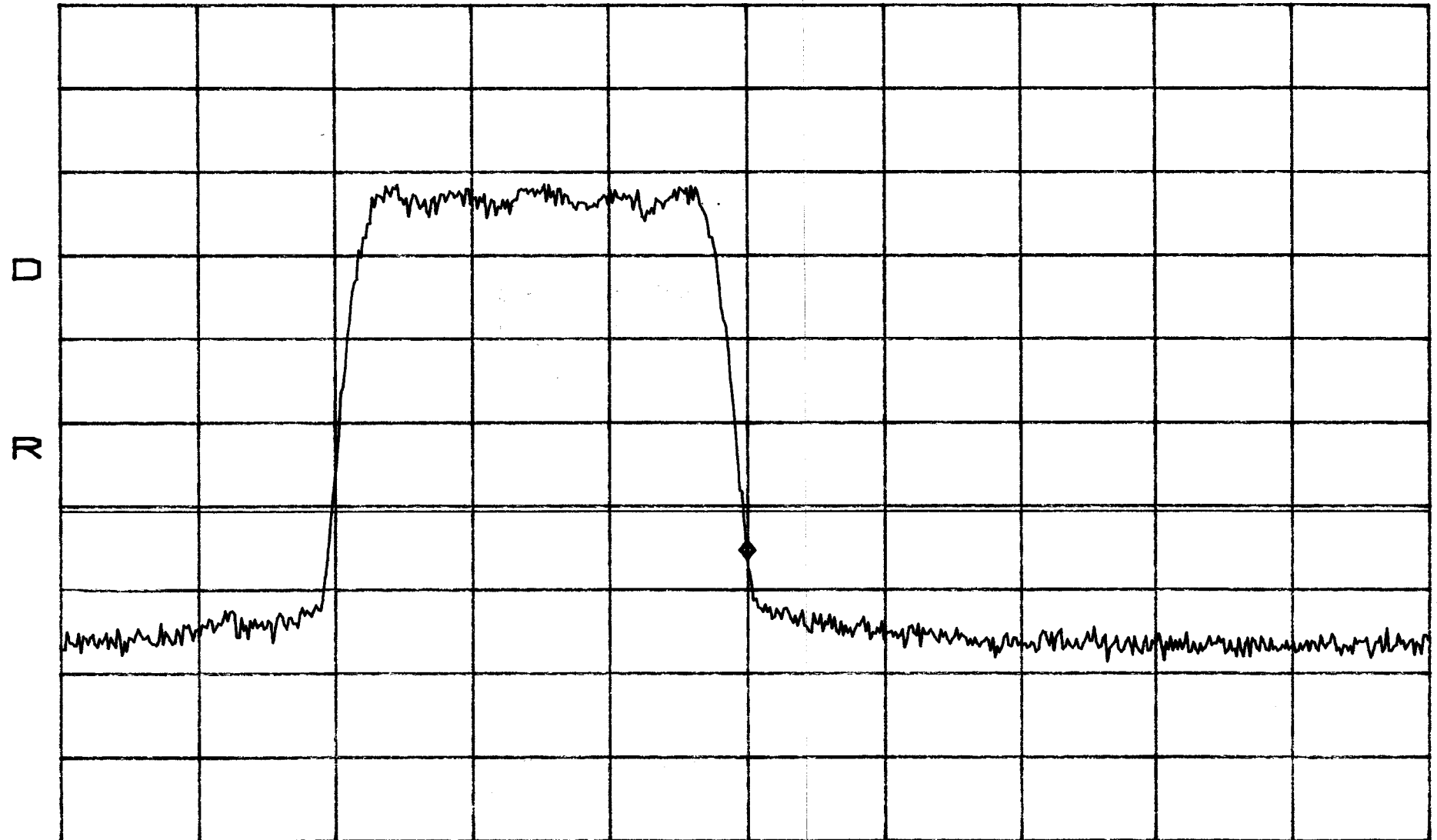
MKR -18.37dBm

*ATTEN 20dB

RL 47.8dBm

10dB/

1.950000GHz



CENTER 1.950000GHz

SPAN 5.000MHz

*RBW 30kHz

VBW 30kHz

*SWP 50ms

Conducted Emissions

Band E

Band Edge

CDMA

VAVG 50

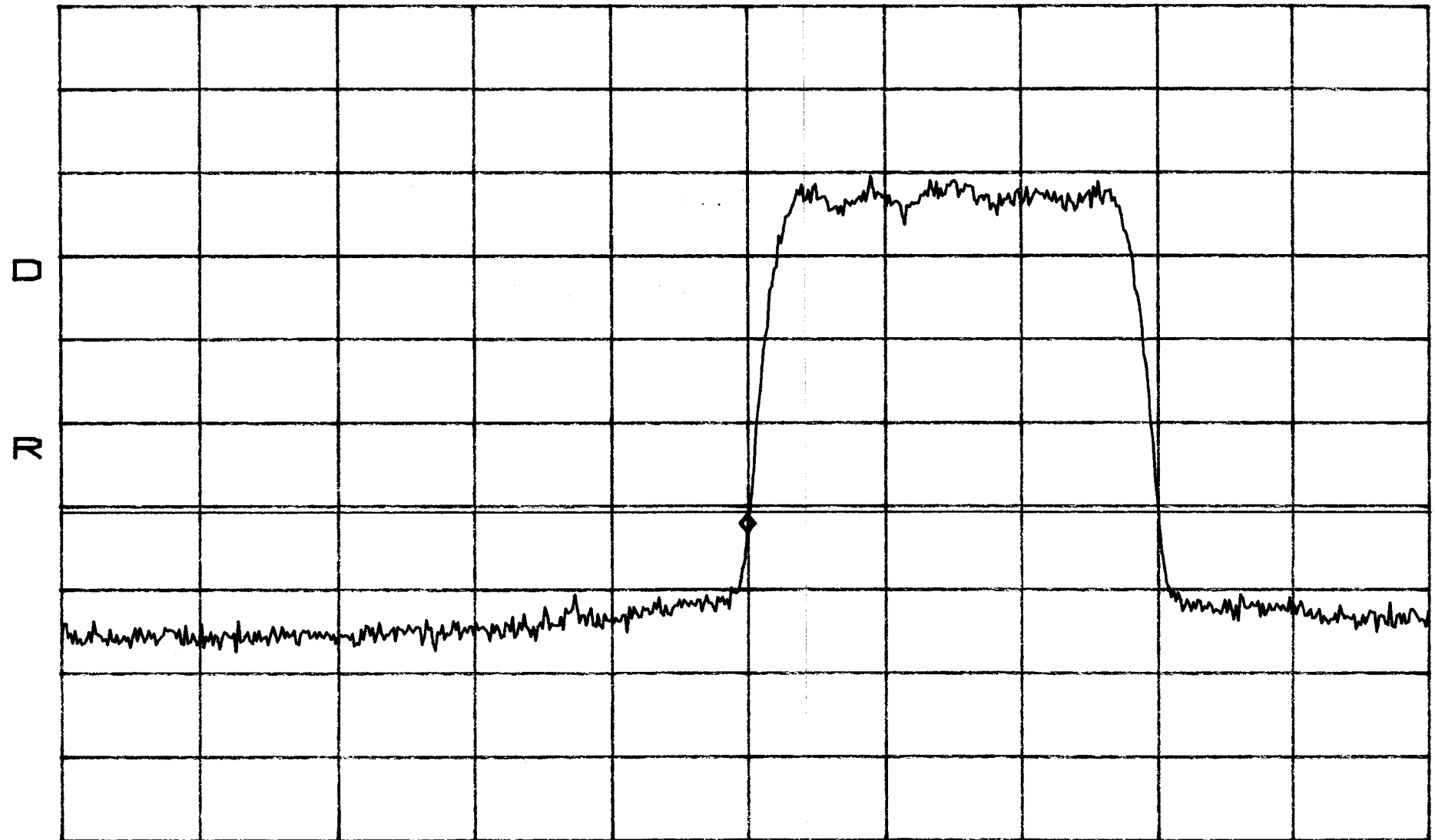
MKR -15.20dBm

*ATTEN 20dB

RL 47.8dBm

10dB/

1.965000GHz



CENTER 1.965000GHz

SPAN 5.000MHz

*RBW 30kHz

VBW 30kHz

*SWP 50ms

Conducted Emissions

Band E

Band Edge

CDMA

VAVG 50

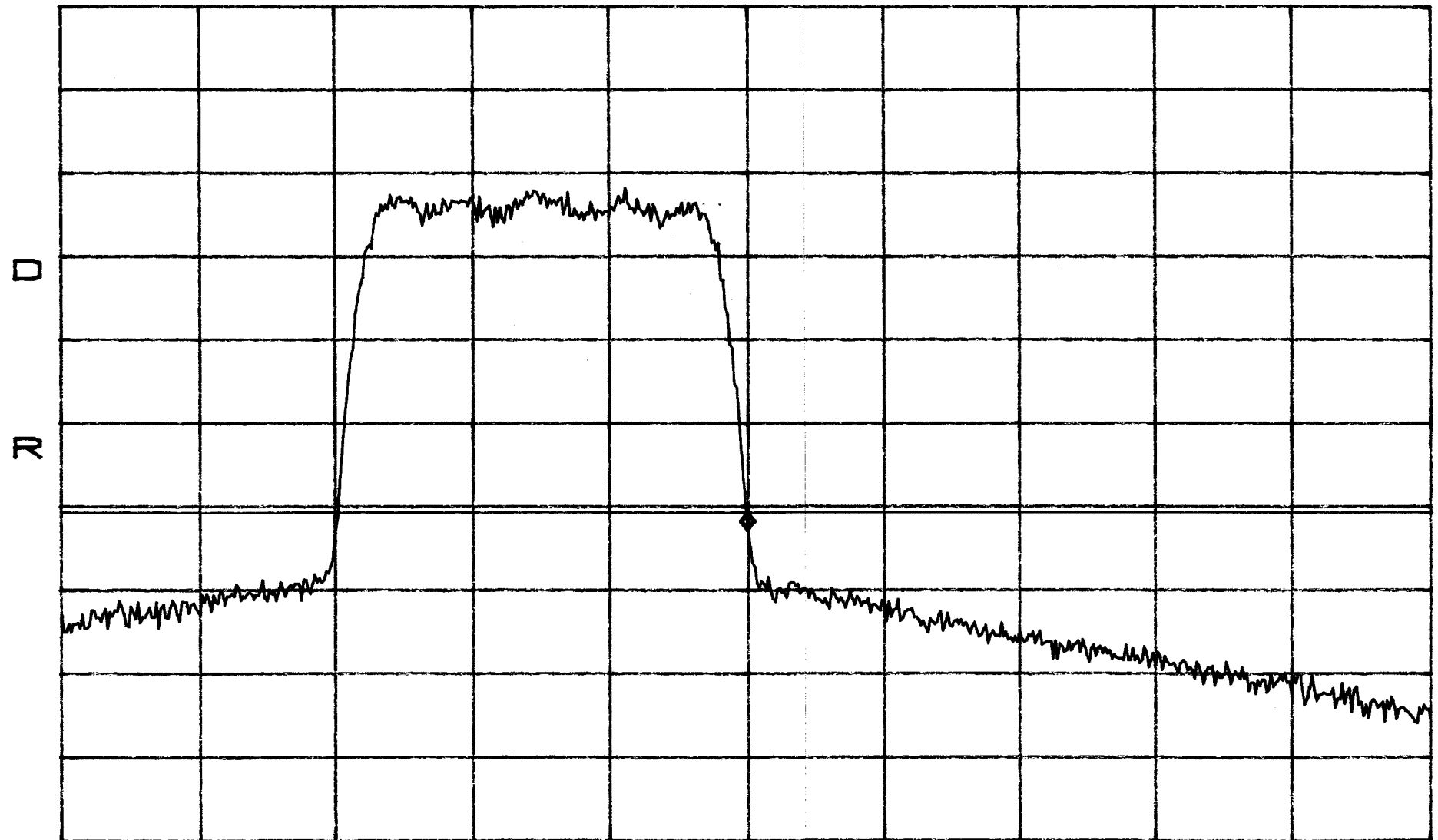
MKR -14.87dBm

*ATTEN 20dB

RL 47.8dBm

10dB/

1.970000GHz



CENTER 1.970000GHz

SPAN 5.000MHz

*RBW 30kHz

VBW 30kHz

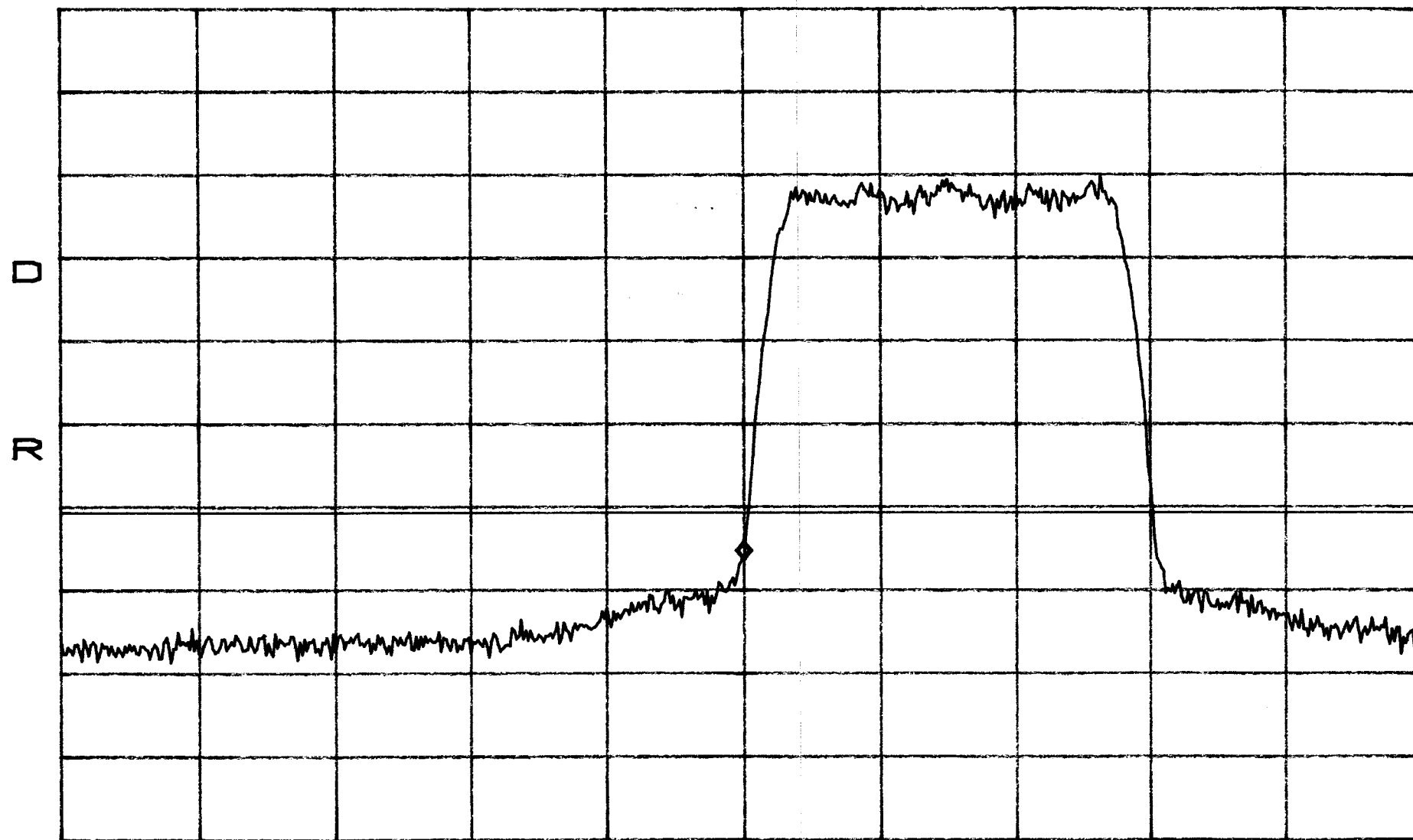
*SWP 50ms

Conducted Emissions
Band Edge
CDMA
VAVG 50
10dB/

Band F

*ATTEN 20dB
RL 47.8dBm

MKR -18.37dBm
1.970000GHz



CENTER 1.970000GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
*SWP 50ms

Conducted Emissions
Band Edge
CDMA
VAVG 50
10dB/

Band F

*ATTEN 20dB
RL 47.8dBm

MKR -15.53dBm
1.975000GHz



CENTER 1.975000GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
*SWP 50ms

Radiated Electromagnetic Emissions



Test Report #:	1819 Runs 01 - 04	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:		EUT Power:		
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:	MEASUREMENT SUMMARY FROM RUNS 1 – 4.			Page: 1 of 2

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	FINAL (dBm)	DELTA1 FCC Pt 24 (-13dBm)
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***** MEASUREMENT SUMMARY RUNS 1 - 4*****						
30.95	51.2 Qp	0.6 / 20.8 / 28.0	44.7	V / 1.0 / 0.0	-55.6	-42.6
31.45	52.1 Qp	0.6 / 20.7 / 28.0	45.4	V / 1.0 / 0.0	-54.9	-41.9
32.47	53.1 Qp	0.6 / 20.1 / 28.0	45.8	V / 1.0 / 90.0	-54.5	-41.5
43.12	63.2 Qp	0.7 / 16.2 / 27.9	52.3	V / 1.0 / 90.0	-48	-35
44.63	59.2 Qp	0.8 / 15.8 / 27.9	47.9	V / 1.0 / 90.0	-52.4	-39.4
47.17	52.5 Qp	0.8 / 15.1 / 27.8	40.6	V / 1.0 / 0.0	-59.7	-46.7
60.38	56.8 Qp	0.9 / 11.9 / 27.8	41.7	V / 1.0 / 180.0	-58.6	-45.6
62.39	65.0 Qp	0.9 / 11.3 / 27.8	49.4	V / 1.0 / 180.0	-50.9	-37.9
62.90	67.3 Qp	0.9 / 11.2 / 27.8	51.6	V / 1.0 / 180.0	-48.7	-35.7
63.91	64.7 Qp	0.9 / 10.9 / 27.8	48.7	V / 1.0 / 180.0	-51.6	-38.6
78.66	61.6 Qp	1.0 / 7.7 / 27.9	42.4	V / 1.0 / 90.0	-57.9	-44.9
131.27	52.2 Qp	1.3 / 8.4 / 27.9	34.0	H / 3.0 / 270.0	-66.3	-53.3
142.00	78.4 Qp	1.3 / 9.3 / 27.9	61.1	V / 1.0 / 273.0	-39.2	-26.2
152.80	58.5 Qp	1.4 / 9.5 / 27.9	41.6	H / 3.0 / 270.0	-58.7	-45.7
179.30	55.1 Qp	1.6 / 9.4 / 27.9	38.2	V / 1.0 / 180.0	-62.1	-49.1
213.00	69.4 Qp	1.6 / 11.1 / 27.7	54.3	H / 1.0 / 90.0	-46	-33
269.86	54.4 Qp	1.9 / 12.6 / 27.9	41.0	H / 1.0 / 180.0	-59.3	-46.3
284.00	74.0 Qp	1.9 / 12.5 / 27.8	60.7	H / 1.2 / 123.0	-39.6	-26.6
355.00	68.7 Qp	2.1 / 15.2 / 27.6	58.4	H / 1.0 / 90.0	-41.9	-28.9
426.00	63.3 Qp	2.4 / 16.9 / 27.7	54.9	H / 1.0 / 270.0	-45.4	-32.4
710.00	71.3 Qp	3.2 / 20.4 / 27.4	67.4	V / 1.6 / 350.0	-32.9	-19.9
781.00	50.0 Qp	3.3 / 21.8 / 27.4	47.6	V / 1.0 / 180.0	-52.7	-39.7
852.00	43.4 Qp	3.5 / 22.2 / 27.2	41.9	H / 1.0 / 180.0	-58.4	-45.4
994.00	55.1 Qp	4.0 / 23.6 / 27.2	55.4	V / 1.0 / 0.0	-44.9	-31.9
1065.00	45.6 Av	4.0 / 23.1 / 27.2	45.4	V / 1.0 / 180.0	-54.9	-41.9

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Radiated Electromagnetic Emissions



Test Report #:	1819 Runs 01 - 04	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:		EUT Power:		
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:	MEASUREMENT SUMMARY FROM RUNS 1 – 4.			Page: 2 of 2

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	FINAL (dBm)	DELTA1 FCC Pt 24 (-13dBm)
***** MEASUREMENT SUMMARY RUNS 1 - 4*****						
1135.99	43.6 Av	4.3 / 23.9 / 27.2	44.6	H / 1.0 / 270.0	-55.7	-42.7
1277.99	45.8 Qp	4.5 / 25.1 / 27.5	47.8	H / 3.0 / 180.0	-52.5	-39.5
1349.00	41.8 Av	4.5 / 25.7 / 27.5	44.4	V / 1.0 / 0.0	-55.9	-42.9
1490.99	44.5 Qp	5.1 / 27.1 / 27.3	49.4	H / 1.0 / 0.0	-50.9	-37.9
1561.99	46.1 Qp	5.2 / 27.2 / 27.4	51.0	H / 1.0 / 0.0	-49.3	-36.3
1634.48	52.6 Av	5.4 / 28.0 / 27.2	58.7	V / 1.0 / 180.0	-41.6	-28.6
1639.49	52.4 Av	5.4 / 28.1 / 27.2	58.6	V / 1.0 / 0.0	-41.7	-28.7
1795.99	64.9 Av	5.7 / 28.2 / 27.2	71.6	H / 1.1 / 58.0	-28.7	-15.7
1800.99	66.0 Av	5.7 / 28.2 / 27.2	72.7	H / 1.1 / 26.0	-27.6	-14.6
1815.98	62.0 Av	5.7 / 28.2 / 27.2	68.8	H / 1.1 / 22.0	-31.5	-18.5
2038.98	53.0 Av	6.9 / 29.7 / 27.2	62.4	V / 1.3 / 81.0	-37.9	-24.9
2043.97	54.1 Av	6.9 / 29.7 / 27.3	63.4	V / 1.3 / 81.0	-36.9	-23.9
2058.98	57.4 Av	7.0 / 29.7 / 27.3	66.8	V / 1.3 / 81.0	-33.5	-20.5
2123.99	38.5 Av	7.1 / 29.9 / 27.3	48.1	V / 1.0 / 0.0	-52.2	-39.2
2139.00	35.7 Av	7.1 / 29.9 / 27.2	45.5	V / 1.0 / 0.0	-54.8	-41.8
2285.49	49.2 Av	7.2 / 30.2 / 26.9	59.8	H / 1.1 / 0.0	-40.5	-27.5
2300.50	50.4 Av	7.2 / 30.3 / 26.8	61.0	H / 1.0 / 0.0	-39.3	-26.3
2839.98	33.7 Av	7.6 / 31.4 / 27.1	45.5	V / 1.0 / 0.0	-54.8	-41.8
3954.98	35.7 Av	9.0 / 34.3 / 26.6	52.3	H / 1.0 / 0.0	-48	-35
4077.98	60.1 Av	8.9 / 34.3 / 40.8	62.5	V / 1.5 / 325.0	-37.8	-24.8
4087.96	60.5 Av	8.9 / 34.3 / 40.8	62.9	V / 1.4 / 328.0	-37.4	-24.4
4117.97	60.3 Av	8.9 / 34.3 / 40.9	62.6	V / 1.3 / 327.0	-37.7	-24.7
5447.96	41.0 Av	10.5 / 35.8 / 40.8	46.5	V / 1.0 / 0.0	-53.8	-40.8
6116.83	57.4 Av	11.9 / 36.5 / 41.2	64.6	H / 1.6 / 73.0	-35.7	-22.7
6131.84	56.5 Av	11.9 / 36.5 / 41.1	63.7	H / 1.6 / 29.0	-36.6	-23.6
6176.83	56.4 Av	11.9 / 36.5 / 41.2	63.6	H / 1.6 / 54.0	-36.7	-23.7

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 1	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	EFC Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	1 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
Antenna: LTS Bilog 3M SN 102						
PreAmp: LTS Preamp ID 2665						
30.95	51.2 Qp	0.6 / 20.8 / 28.0	44.7	V / 1.0 / 0.0	N/A	N/A
31.45	52.1 Qp	0.6 / 20.7 / 28.0	45.3	V / 1.0 / 0.0	N/A	N/A
32.47	50.9 Qp	0.6 / 20.1 / 28.0	43.6	V / 1.0 / 0.0	N/A	N/A
43.12	60.6 Qp	0.7 / 16.2 / 27.9	49.7	V / 1.0 / 0.0	N/A	N/A
44.63	55.5 Qp	0.8 / 15.8 / 27.9	44.1	V / 1.0 / 0.0	N/A	N/A
47.17	50.9 Qp	0.8 / 15.1 / 27.8	39.0	V / 1.0 / 0.0	N/A	N/A
60.38	54.5 Qp	0.9 / 11.9 / 27.8	39.4	V / 1.0 / 0.0	N/A	N/A
62.39	62.1 Qp	0.9 / 11.3 / 27.8	46.5	V / 1.0 / 0.0	N/A	N/A
62.90	64.2 Qp	0.9 / 11.2 / 27.8	48.5	V / 1.0 / 0.0	N/A	N/A
63.91	62.0 Qp	0.9 / 10.9 / 27.8	46.0	V / 1.0 / 0.0	N/A	N/A
78.66	57.0 Qp	1.0 / 7.7 / 27.9	37.8	V / 1.0 / 0.0	N/A	N/A
131.27	42.5 Qp	1.3 / 8.4 / 27.9	24.3	V / 1.0 / 0.0	N/A	N/A
142.00	66.4 Qp	1.3 / 9.3 / 27.9	49.1	V / 1.0 / 0.0	N/A	N/A
152.80	54.8 Qp	1.4 / 9.5 / 27.9	37.9	V / 1.0 / 0.0	N/A	N/A
179.30	51.9 Qp	1.6 / 9.4 / 27.9	35.0	V / 1.0 / 0.0	N/A	N/A
213.00	53.1 Qp	1.6 / 11.1 / 27.7	38.0	V / 1.0 / 0.0	N/A	N/A
269.80	41.9 Qp	1.9 / 12.6 / 27.9	28.4	V / 1.0 / 0.0	N/A	N/A
284.00	59.1 Qp	1.9 / 12.5 / 27.8	45.7	V / 1.0 / 0.0	N/A	N/A
355.00	53.9 Qp	2.1 / 15.2 / 27.6	43.6	V / 1.0 / 0.0	N/A	N/A
426.00	60.5 Qp	2.4 / 16.9 / 27.7	52.0	V / 1.0 / 0.0	N/A	N/A
710.00	60.9 Qp	3.2 / 20.4 / 27.4	57.0	V / 1.0 / 0.0	N/A	N/A
781.00	44.4 Qp	3.3 / 21.8 / 27.4	42.0	V / 1.0 / 0.0	N/A	N/A
852.00	42.0 Qp	3.5 / 22.2 / 27.2	40.4	V / 1.0 / 0.0	N/A	N/A
994.00	48.9 Qp	4.0 / 23.6 / 27.2	49.2	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 1	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	EFC Block	EUT Power:	30vdc / 110vac	
EUT Serial #:				Temperature: 22 °C
Manufacturer:	ADC			Relative Humidity: 27 %
EUT Description:	Host/STM			Air Pressure: 99.3 kPa
Notes:				Page: 2 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1065.00	36.2 Av	4.0 / 23.1 / 27.2	36.1	V / 1.0 / 0.0	N/A	N/A
1349.00	41.8 Av	4.5 / 25.7 / 27.5	44.4	V / 1.0 / 0.0	N/A	N/A
1654.48	53.0 Av	5.4 / 28.2 / 27.1	59.5	V / 1.0 / 0.0	N/A	N/A
1816.00	52.3 Av	5.7 / 28.2 / 27.2	59.1	V / 1.0 / 0.0	N/A	N/A
32.47	51.9 Qp	0.6 / 20.1 / 28.0	44.6	V / 1.0 / 0.0	N/A	N/A
43.12	62.0 Qp	0.7 / 16.2 / 27.9	51.0	V / 1.0 / 0.0	N/A	N/A
44.63	57.9 Qp	0.8 / 15.8 / 27.9	46.6	V / 1.0 / 0.0	N/A	N/A
47.17	52.5 Qp	0.8 / 15.1 / 27.8	40.6	V / 1.0 / 0.0	N/A	N/A
78.66	57.6 Qp	1.0 / 7.7 / 27.9	38.4	V / 1.0 / 0.0	N/A	N/A
213.00	54.8 Qp	1.6 / 11.1 / 27.7	39.7	V / 1.0 / 0.0	N/A	N/A
284.00	61.9 Qp	1.9 / 12.5 / 27.8	48.5	V / 1.0 / 0.0	N/A	N/A
355.00	56.9 Qp	2.1 / 15.2 / 27.6	46.6	V / 1.0 / 0.0	N/A	N/A
994.00	55.1 Qp	4.0 / 23.6 / 27.2	55.4	V / 1.0 / 0.0	N/A	N/A
1065.00	40.3 Av	4.0 / 23.1 / 27.2	40.1	V / 1.0 / 0.0	N/A	N/A
60.38	55.6 Qp	0.9 / 11.9 / 27.8	40.6	V / 1.0 / 180.0	N/A	N/A
63.91	64.1 Qp	0.9 / 10.9 / 27.8	48.1	V / 1.0 / 180.0	N/A	N/A
152.80	56.5 Qp	1.4 / 9.5 / 27.9	39.5	V / 1.0 / 180.0	N/A	N/A
179.30	52.4 Qp	1.6 / 9.4 / 27.9	35.4	V / 1.0 / 180.0	N/A	N/A
213.00	62.0 Qp	1.6 / 11.1 / 27.7	46.9	V / 1.0 / 180.0	N/A	N/A
426.00	61.0 Qp	2.4 / 16.9 / 27.7	52.6	V / 1.0 / 180.0	N/A	N/A
1065.00	45.6 Av	4.0 / 23.1 / 27.2	45.4	V / 1.0 / 180.0	N/A	N/A
1816.00	58.3 Av	5.7 / 28.2 / 27.2	65.1	V / 1.0 / 180.0	N/A	N/A
78.66	58.1 Qp	1.0 / 7.7 / 27.9	38.9	V / 1.0 / 270.0	N/A	N/A
131.27	45.0 Qp	1.3 / 8.4 / 27.9	26.8	V / 1.0 / 270.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 1	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	EFC Block	EUT Power:	30vdc / 110vac	
EUT Serial #:				Temperature: 22 °C
Manufacturer:	ADC			Relative Humidity: 27 %
EUT Description:	Host/STM			Air Pressure: 99.3 kPa
Notes:				Page: 3 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
269.80	44.9 Qp	1.9 / 12.6 / 27.9	31.5	V / 1.0 / 270.0	N/A	N/A
355.00	57.5 Qp	2.1 / 15.2 / 27.6	47.2	V / 1.0 / 270.0	N/A	N/A
131.27	52.2 Qp	1.3 / 8.4 / 27.9	34.0	H / 3.0 / 270.0	N/A	N/A
152.80	58.5 Qp	1.4 / 9.5 / 27.9	41.6	H / 3.0 / 270.0	N/A	N/A
179.30	53.5 Qp	1.6 / 9.4 / 27.9	36.6	H / 3.0 / 270.0	N/A	N/A
355.00	60.9 Qp	2.1 / 15.2 / 27.6	50.6	H / 3.0 / 270.0	N/A	N/A
269.91	46.6 Qp	1.9 / 12.6 / 27.9	33.2	H / 3.0 / 180.0	N/A	N/A
284.00	62.4 Qp	1.9 / 12.5 / 27.8	49.0	H / 3.0 / 180.0	N/A	N/A
142.00	67.5 Qp	1.3 / 9.3 / 27.9	50.1	H / 3.0 / 90.0	N/A	N/A
213.00	62.6 Qp	1.6 / 11.1 / 27.7	47.6	H / 3.0 / 90.0	N/A	N/A
355.00	63.4 Qp	2.1 / 15.2 / 27.6	53.1	H / 3.0 / 90.0	N/A	N/A
269.91	51.3 Qp	1.9 / 12.6 / 27.9	37.9	H / 1.0 / 0.0	N/A	N/A
284.00	67.8 Qp	1.9 / 12.5 / 27.8	54.4	H / 1.0 / 0.0	N/A	N/A
710.00	62.4 Qp	3.2 / 20.4 / 27.4	58.5	H / 1.0 / 0.0	N/A	N/A
213.00	69.2 Qp	1.6 / 11.1 / 27.7	54.2	H / 1.0 / 90.0	N/A	N/A
269.86	54.0 Qp	1.9 / 12.6 / 27.9	40.5	H / 1.0 / 90.0	N/A	N/A
284.00	71.8 Qp	1.9 / 12.5 / 27.8	58.4	H / 1.0 / 90.0	N/A	N/A
355.00	66.3 Qp	2.1 / 15.2 / 27.6	56.0	H / 1.0 / 90.0	N/A	N/A
781.00	44.8 Qp	3.3 / 21.8 / 27.4	42.4	H / 1.0 / 180.0	N/A	N/A
355.00	66.9 Qp	2.1 / 15.2 / 27.6	56.6	H / 1.0 / 270.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 1	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	EFC Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	4 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
Maximized						
1815.98	62.0 Av	5.7 / 28.2 / 27.2	68.8	H / 1.1 / 22.0	N/A	N/A
1654.48	59.3 Av	5.4 / 28.2 / 27.1	65.7	H / 1.6 / 20.0	N/A	N/A
710.00	69.9 Qp	3.2 / 20.4 / 27.4	66.0	V / 1.1 / 350.0	N/A	N/A
284.00	74.0 Qp	1.9 / 12.5 / 27.8	60.7	H / 1.2 / 123.0	N/A	N/A
Antenna: LTS Horn ID# 2075						
2058.98	46.5 Av	7.0 / 29.7 / 27.3	55.8	V / 1.0 / 0.0	N/A	N/A
2139.00	35.7 Av	7.1 / 29.9 / 27.2	45.5	V / 1.0 / 0.0	N/A	N/A
2300.50	42.7 Av	7.2 / 30.3 / 26.8	53.3	V / 1.0 / 0.0	N/A	N/A
3954.98	35.7 Av	9.0 / 34.3 / 26.6	52.3	H / 1.0 / 0.0	N/A	N/A
Max'd						
2058.98	57.4 Av	7.0 / 29.7 / 27.3	66.8	V / 1.3 / 81.0	N/A	N/A
2300.50	50.4 Av	7.2 / 30.3 / 26.8	61.0	H / 1.0 / 0.0	N/A	N/A
PreAmp: #2477Preamp(4-8GHZ)						
4117.97	49.9 Av	8.9 / 34.3 / 40.9	52.2	V / 1.0 / 0.0	N/A	N/A
5447.96	41.0 Av	10.5 / 35.8 / 40.8	46.5	V / 1.0 / 0.0	N/A	N/A
6176.83	44.8 Av	11.9 / 36.5 / 41.2	52.0	V / 1.0 / 0.0	N/A	N/A
Max'd						
4117.97	60.3 Av	8.9 / 34.3 / 40.9	62.6	V / 1.3 / 327.0	N/A	N/A
6176.83	56.4 Av	11.9 / 36.5 / 41.2	63.6	H / 1.6 / 54.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 1	Test Area:	LTS 3m		
Test Method:	N/A	Test Date:	10-Apr-2002		
EUT Model #:	EFC Block	EUT Power:	30vdc / 110vac		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC			Relative Humidity:	27 %
EUT Description:	Host/STM			Air Pressure:	99.3 kPa
Notes:				Page:	5 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
PreAmp: #2478 Preamp(8-18G)						
No significant emissions detected above 6176.83 MHz						
1800.99 MHz (Highest emission, Run 2)						
Sig Gen Lvl (-24.7dBm) - Cable Loss (9.9dB) + Xmit Horn Antenna Gain (7.0dBi) = -27.6dBm						

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 2	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	BEF Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	1 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
Antenna: LTS Horn ID# 2075						
PreAmp: #2478 Preamp(8-18G)						
No significant emissions detected above 8 GHz						
PreAmp: #2477Preamp(4-8GHZ)						
Maximized						
4087.96	48.9 Av	8.9 / 34.3 / 40.8	51.3	V / 1.0 / 0.0	N/A	N/A
6131.84	47.9 Av	11.9 / 36.5 / 41.1	55.1	V / 1.0 / 0.0	N/A	N/A
PreAmp: LTS Preamp ID 2665						
2043.97	47.4 Av	6.9 / 29.7 / 27.3	56.7	V / 1.0 / 0.0	N/A	N/A
2123.99	38.5 Av	7.1 / 29.9 / 27.3	48.1	V / 1.0 / 0.0	N/A	N/A
2285.49	38.8 Av	7.2 / 30.2 / 26.9	49.3	V / 1.0 / 0.0	N/A	N/A
2839.98	33.7 Av	7.6 / 31.4 / 27.1	45.5	V / 1.0 / 0.0	N/A	N/A
Max'd						
2043.97	54.1 Av	6.9 / 29.7 / 27.3	63.4	V / 1.3 / 81.0	N/A	N/A
2285.49	49.2 Av	7.2 / 30.2 / 26.9	59.8	H / 1.1 / 0.0	N/A	N/A
Antenna: LTS Bilog 3M SN 102						

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 2	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	BEF Block	EUT Power:	30vdc / 110vac	
EUT Serial #:				Temperature: 22 °C
Manufacturer:	ADC			Relative Humidity: 27 %
EUT Description:	Host/STM			Air Pressure: 99.3 kPa
Notes:				Page: 2 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
30.95	47.8 Qp	0.6 / 20.8 / 28.0	41.2	V / 1.0 / 0.0	N/A	N/A
31.45	52.1 Qp	0.6 / 20.7 / 28.0	45.4	V / 1.0 / 0.0	N/A	N/A
32.47	50.0 Qp	0.6 / 20.1 / 28.0	42.7	V / 1.0 / 0.0	N/A	N/A
43.12	61.5 Qp	0.7 / 16.2 / 27.9	50.5	V / 1.0 / 0.0	N/A	N/A
44.63	55.7 Qp	0.8 / 15.8 / 27.9	44.4	V / 1.0 / 0.0	N/A	N/A
47.17	50.6 Qp	0.8 / 15.1 / 27.8	38.8	V / 1.0 / 0.0	N/A	N/A
60.38	55.8 Qp	0.9 / 11.9 / 27.8	40.7	V / 1.0 / 0.0	N/A	N/A
62.39	60.1 Qp	0.9 / 11.3 / 27.8	44.5	V / 1.0 / 0.0	N/A	N/A
62.90	59.1 Qp	0.9 / 11.2 / 27.8	43.5	V / 1.0 / 0.0	N/A	N/A
63.91	55.7 Qp	0.9 / 10.9 / 27.8	39.7	V / 1.0 / 0.0	N/A	N/A
78.66	57.4 Qp	1.0 / 7.7 / 27.9	38.2	V / 1.0 / 0.0	N/A	N/A
131.27	40.2 Qp	1.3 / 8.4 / 27.9	22.0	V / 1.0 / 0.0	N/A	N/A
142.00	66.2 Qp	1.3 / 9.3 / 27.9	48.9	V / 1.0 / 0.0	N/A	N/A
152.80	50.4 Qp	1.4 / 9.5 / 27.9	33.4	V / 1.0 / 0.0	N/A	N/A
179.30	51.1 Qp	1.6 / 9.4 / 27.9	34.2	V / 1.0 / 0.0	N/A	N/A
213.00	51.6 Qp	1.6 / 11.1 / 27.7	36.5	V / 1.0 / 0.0	N/A	N/A
269.86	41.4 Qp	1.9 / 12.6 / 27.9	28.0	V / 1.0 / 0.0	N/A	N/A
269.91	41.3 Qp	1.9 / 12.6 / 27.9	27.9	V / 1.0 / 0.0	N/A	N/A
284.00	60.4 Qp	1.9 / 12.5 / 27.8	47.0	V / 1.0 / 0.0	N/A	N/A
355.00	50.0 Qp	2.1 / 15.2 / 27.6	39.7	V / 1.0 / 0.0	N/A	N/A
426.00	55.6 Qp	2.4 / 16.9 / 27.7	47.1	V / 1.0 / 0.0	N/A	N/A
710.00	61.6 Qp	3.2 / 20.4 / 27.4	57.7	V / 1.0 / 0.0	N/A	N/A
781.00	45.7 Qp	3.3 / 21.8 / 27.4	43.4	V / 1.0 / 0.0	N/A	N/A
852.00	42.9 Qp	3.5 / 22.2 / 27.2	41.3	V / 1.0 / 0.0	N/A	N/A
994.00	45.6 Qp	4.0 / 23.6 / 27.2	45.9	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 2	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	BEF Block	EUT Power:	30vdc / 110vac	
EUT Serial #:				Temperature: 22 °C
Manufacturer:	ADC			Relative Humidity: 27 %
EUT Description:	Host/STM			Air Pressure: 99.3 kPa
Notes:				Page: 3 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1065.00	39.2 Av	4.0 / 23.1 / 27.2	39.1	V / 1.0 / 0.0	N/A	N/A
1349.00	36.6 Av	4.5 / 25.7 / 27.5	39.2	V / 1.0 / 0.0	N/A	N/A
1639.49	52.4 Av	5.4 / 28.1 / 27.2	58.6	V / 1.0 / 0.0	N/A	N/A
1800.99	56.1 Av	5.7 / 28.2 / 27.2	62.8	V / 1.0 / 0.0	N/A	N/A
32.47	52.8 Qp	0.6 / 20.1 / 28.0	45.5	V / 1.0 / 90.0	N/A	N/A
43.12	63.0 Qp	0.7 / 16.2 / 27.9	52.0	V / 1.0 / 90.0	N/A	N/A
44.63	58.4 Qp	0.8 / 15.8 / 27.9	47.0	V / 1.0 / 90.0	N/A	N/A
47.17	51.1 Qp	0.8 / 15.1 / 27.8	39.2	V / 1.0 / 90.0	N/A	N/A
78.66	59.1 Qp	1.0 / 7.7 / 27.9	39.9	V / 1.0 / 90.0	N/A	N/A
213.00	56.8 Qp	1.6 / 11.1 / 27.7	41.7	V / 1.0 / 90.0	N/A	N/A
269.86	44.8 Qp	1.9 / 12.6 / 27.9	31.4	V / 1.0 / 90.0	N/A	N/A
284.00	62.5 Qp	1.9 / 12.5 / 27.8	49.1	V / 1.0 / 90.0	N/A	N/A
355.00	56.8 Qp	2.1 / 15.2 / 27.6	46.5	V / 1.0 / 90.0	N/A	N/A
994.00	54.6 Qp	4.0 / 23.6 / 27.2	55.0	V / 1.0 / 90.0	N/A	N/A
1349.00	37.4 Qp	4.5 / 25.7 / 27.5	40.0	V / 1.0 / 90.0	N/A	N/A
60.38	56.6 Qp	0.9 / 11.9 / 27.8	41.6	V / 1.0 / 180.0	N/A	N/A
62.39	64.2 Qp	0.9 / 11.3 / 27.8	48.6	V / 1.0 / 180.0	N/A	N/A
62.90	66.9 Qp	0.9 / 11.2 / 27.8	51.2	V / 1.0 / 180.0	N/A	N/A
63.91	64.5 Qp	0.9 / 10.9 / 27.8	48.5	V / 1.0 / 180.0	N/A	N/A
152.80	52.1 Qp	1.4 / 9.5 / 27.9	35.2	V / 1.0 / 180.0	N/A	N/A
213.00	59.0 Qp	1.6 / 11.1 / 27.7	43.9	V / 1.0 / 180.0	N/A	N/A
426.00	61.9 Qp	2.4 / 16.9 / 27.7	53.5	V / 1.0 / 180.0	N/A	N/A
781.00	46.6 Qp	3.3 / 21.8 / 27.4	44.3	V / 1.0 / 180.0	N/A	N/A
1065.00	43.6 Qp	4.0 / 23.1 / 27.2	43.5	V / 1.0 / 180.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 2	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	BEF Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:	Page:		4	of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1349.00	41.1 Qp	4.5 / 25.7 / 27.5	43.7	V / 1.0 / 180.0	N/A	N/A
47.17	51.2 Qp	0.8 / 15.1 / 27.8	39.4	V / 1.0 / 270.0	N/A	N/A
131.27	41.6 Qp	1.3 / 8.4 / 27.9	23.4	V / 1.0 / 270.0	N/A	N/A
269.86	46.6 Qp	1.9 / 12.6 / 27.9	33.1	V / 1.0 / 270.0	N/A	N/A
355.00	58.6 Qp	2.1 / 15.2 / 27.6	48.3	V / 1.0 / 270.0	N/A	N/A
131.27	48.9 Qp	1.3 / 8.4 / 27.9	30.7	H / 3.0 / 270.0	N/A	N/A
152.80	55.0 Qp	1.4 / 9.5 / 27.9	38.0	H / 3.0 / 270.0	N/A	N/A
355.00	61.9 Qp	2.1 / 15.2 / 27.6	51.6	H / 3.0 / 270.0	N/A	N/A
355.00	62.6 Qp	2.1 / 15.2 / 27.6	52.3	H / 3.0 / 180.0	N/A	N/A
131.27	50.4 Qp	1.3 / 8.4 / 27.9	32.1	H / 3.0 / 90.0	N/A	N/A
142.00	67.9 Qp	1.3 / 9.3 / 27.9	50.6	H / 3.0 / 90.0	N/A	N/A
213.00	62.8 Qp	1.6 / 11.1 / 27.7	47.7	H / 3.0 / 90.0	N/A	N/A
355.00	63.2 Qp	2.1 / 15.2 / 27.6	52.9	H / 3.0 / 90.0	N/A	N/A
1800.99	57.1 Qp	5.7 / 28.2 / 27.2	63.8	H / 3.0 / 90.0	N/A	N/A
269.86	51.1 Qp	1.9 / 12.6 / 27.9	37.6	H / 1.0 / 0.0	N/A	N/A
284.00	66.3 Qp	1.9 / 12.5 / 27.8	52.9	H / 1.0 / 0.0	N/A	N/A
213.00	69.4 Qp	1.6 / 11.1 / 27.7	54.3	H / 1.0 / 90.0	N/A	N/A
269.86	51.5 Qp	1.9 / 12.6 / 27.9	38.1	H / 1.0 / 90.0	N/A	N/A
284.00	68.5 Qp	1.9 / 12.5 / 27.8	55.2	H / 1.0 / 90.0	N/A	N/A
355.00	67.2 Qp	2.1 / 15.2 / 27.6	56.9	H / 1.0 / 90.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 2	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	BEF Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:	Page:		5	of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
269.86	54.4 Qp	1.9 / 12.6 / 27.9	41.0	H / 1.0 / 180.0	N/A	N/A
284.00	70.7 Qp	1.9 / 12.5 / 27.8	57.3	H / 1.0 / 180.0	N/A	N/A
426.00	63.3 Qp	2.4 / 16.9 / 27.7	54.9	H / 1.0 / 270.0	N/A	N/A
Max'd						
1800.99	66.0 Av	5.7 / 28.2 / 27.2	72.7	H / 1.1 / 26.0	N/A	N/A
End scan 30 MHz to 20 GHz						
1800.99 MHz (Highest Spurious Level)						
Sig Gen Lvl (-24.7dBm) - Cable Loss (9.9dB) + Xmit Horn Antenna Gain (7.0dBi) = -27.6dBm						

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 3	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	DBE Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	1 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
Antenna: LTS Bilog 3M SN 102						
PreAmp: LTS Preamp ID 2665						
30.95	47.1 Qp	0.6 / 20.8 / 28.0	40.5	V / 1.0 / 0.0	N/A	N/A
31.45	52.1 Qp	0.6 / 20.7 / 28.0	45.4	V / 1.0 / 0.0	N/A	N/A
32.47	51.1 Qp	0.6 / 20.1 / 28.0	43.9	V / 1.0 / 0.0	N/A	N/A
43.12	62.4 Qp	0.7 / 16.2 / 27.9	51.4	V / 1.0 / 0.0	N/A	N/A
44.63	57.2 Qp	0.8 / 15.8 / 27.9	45.9	V / 1.0 / 0.0	N/A	N/A
47.17	52.0 Qp	0.8 / 15.1 / 27.8	40.1	V / 1.0 / 0.0	N/A	N/A
60.38	55.5 Qp	0.9 / 11.9 / 27.8	40.5	V / 1.0 / 0.0	N/A	N/A
62.39	60.6 Qp	0.9 / 11.3 / 27.8	45.0	V / 1.0 / 0.0	N/A	N/A
62.90	58.9 Qp	0.9 / 11.2 / 27.8	43.2	V / 1.0 / 0.0	N/A	N/A
63.91	55.0 Qp	0.9 / 10.9 / 27.8	39.0	V / 1.0 / 0.0	N/A	N/A
78.66	59.8 Qp	1.0 / 7.7 / 27.9	40.6	V / 1.0 / 0.0	N/A	N/A
131.27	42.9 Qp	1.3 / 8.4 / 27.9	24.6	V / 1.0 / 0.0	N/A	N/A
142.00	68.0 Qp	1.3 / 9.3 / 27.9	50.7	V / 1.0 / 0.0	N/A	N/A
152.80	54.2 Qp	1.4 / 9.5 / 27.9	37.3	V / 1.0 / 0.0	N/A	N/A
179.30	50.9 Qp	1.6 / 9.4 / 27.9	33.9	V / 1.0 / 0.0	N/A	N/A
213.00	40.8 Qp	1.6 / 11.1 / 27.7	25.8	V / 1.0 / 0.0	N/A	N/A
269.86	43.1 Qp	1.9 / 12.6 / 27.9	29.6	V / 1.0 / 0.0	N/A	N/A
269.91	42.9 Qp	1.9 / 12.6 / 27.9	29.5	V / 1.0 / 0.0	N/A	N/A
284.00	60.0 Qp	1.9 / 12.5 / 27.8	46.6	V / 1.0 / 0.0	N/A	N/A
355.00	56.0 Qp	2.1 / 15.2 / 27.6	45.7	V / 1.0 / 0.0	N/A	N/A
426.00	58.6 Qp	2.4 / 16.9 / 27.7	50.2	V / 1.0 / 0.0	N/A	N/A
710.00	65.5 Qp	3.2 / 20.4 / 27.4	61.6	V / 1.0 / 0.0	N/A	N/A
781.00	41.6 Qp	3.3 / 21.8 / 27.4	39.3	V / 1.0 / 0.0	N/A	N/A
852.00	40.9 Qp	3.5 / 22.2 / 27.2	39.4	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 3	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	DBE Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	2 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
994.00	45.1 Qp	4.0 / 23.6 / 27.2	45.5	V / 1.0 / 0.0	N/A	N/A
1065.00	36.0 Av	4.0 / 23.1 / 27.2	35.9	V / 1.0 / 0.0	N/A	N/A
1135.99	36.1 Av	4.3 / 23.9 / 27.2	37.1	V / 1.0 / 90.0	N/A	N/A
1277.99	43.1 Av	4.5 / 25.1 / 27.5	45.2	V / 1.0 / 90.0	N/A	N/A
1490.99	40.1 Av	5.1 / 27.1 / 27.3	45.0	V / 1.0 / 90.0	N/A	N/A
1561.99	44.8 Av	5.2 / 27.2 / 27.4	49.7	V / 1.0 / 90.0	N/A	N/A
1634.48	44.5 Av	5.4 / 28.0 / 27.2	50.6	V / 1.0 / 90.0	N/A	N/A
1795.99	58.2 Av	5.7 / 28.2 / 27.2	64.9	V / 1.0 / 90.0	N/A	N/A
32.47	53.1 Qp	0.6 / 20.1 / 28.0	45.8	V / 1.0 / 90.0	N/A	N/A
43.12	62.6 Qp	0.7 / 16.2 / 27.9	51.7	V / 1.0 / 90.0	N/A	N/A
44.63	59.2 Qp	0.8 / 15.8 / 27.9	47.9	V / 1.0 / 90.0	N/A	N/A
78.66	60.8 Qp	1.0 / 7.7 / 27.9	41.6	V / 1.0 / 90.0	N/A	N/A
142.00	65.5 Qp	1.3 / 9.3 / 27.9	48.2	V / 1.0 / 90.0	N/A	N/A
179.30	53.6 Qp	1.6 / 9.4 / 27.9	36.7	V / 1.0 / 90.0	N/A	N/A
213.00	52.5 Qp	1.6 / 11.1 / 27.7	37.4	V / 1.0 / 90.0	N/A	N/A
269.86	46.5 Qp	1.9 / 12.6 / 27.9	33.0	V / 1.0 / 90.0	N/A	N/A
284.00	64.2 Qp	1.9 / 12.5 / 27.8	50.9	V / 1.0 / 90.0	N/A	N/A
994.00	53.8 Qp	4.0 / 23.6 / 27.2	54.1	V / 1.0 / 90.0	N/A	N/A
1065.00	41.2 Av	4.0 / 23.1 / 27.2	41.1	V / 1.0 / 90.0	N/A	N/A
1135.99	42.5 Av	4.3 / 23.9 / 27.2	43.5	V / 1.0 / 90.0	N/A	N/A
1349.00	34.2 Av	4.5 / 25.7 / 27.5	36.9	V / 1.0 / 90.0	N/A	N/A
60.38	56.0 Qp	0.9 / 11.9 / 27.8	40.9	V / 1.0 / 180.0	N/A	N/A
62.39	63.9 Qp	0.9 / 11.3 / 27.8	48.2	V / 1.0 / 180.0	N/A	N/A
62.90	66.9 Qp	0.9 / 11.2 / 27.8	51.2	V / 1.0 / 180.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 3	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	DBE Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	3 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
63.91	64.8 Qp	0.9 / 10.9 / 27.8	48.8	V / 1.0 / 180.0	N/A	N/A
78.66	61.1 Qp	1.0 / 7.7 / 27.9	41.9	V / 1.0 / 180.0	N/A	N/A
152.80	55.1 Qp	1.4 / 9.5 / 27.9	38.1	V / 1.0 / 180.0	N/A	N/A
179.30	55.1 Qp	1.6 / 9.4 / 27.9	38.2	V / 1.0 / 180.0	N/A	N/A
213.00	60.0 Qp	1.6 / 11.1 / 27.7	44.9	V / 1.0 / 180.0	N/A	N/A
426.00	63.0 Qp	2.4 / 16.9 / 27.7	54.5	V / 1.0 / 180.0	N/A	N/A
781.00	46.8 Qp	3.3 / 21.8 / 27.4	44.4	V / 1.0 / 180.0	N/A	N/A
852.00	42.2 Qp	3.5 / 22.2 / 27.2	40.7	V / 1.0 / 180.0	N/A	N/A
1349.00	36.4 Av	4.5 / 25.7 / 27.5	39.0	V / 1.0 / 180.0	N/A	N/A
1634.48	52.6 Av	5.4 / 28.0 / 27.2	58.7	V / 1.0 / 180.0	N/A	N/A
43.12	63.1 Qp	0.7 / 16.2 / 27.9	52.1	V / 1.0 / 270.0	N/A	N/A
131.27	43.5 Qp	1.3 / 8.4 / 27.9	25.3	V / 1.0 / 270.0	N/A	N/A
355.00	58.2 Qp	2.1 / 15.2 / 27.6	47.9	V / 1.0 / 270.0	N/A	N/A
710.00	65.5 Qp	3.2 / 20.4 / 27.4	61.6	V / 1.0 / 270.0	N/A	N/A
131.27	52.2 Qp	1.3 / 8.4 / 27.9	34.0	H / 3.0 / 270.0	N/A	N/A
152.80	58.1 Qp	1.4 / 9.5 / 27.9	41.2	H / 3.0 / 270.0	N/A	N/A
213.00	61.0 Qp	1.6 / 11.1 / 27.7	46.0	H / 3.0 / 270.0	N/A	N/A
355.00	63.7 Qp	2.1 / 15.2 / 27.6	53.4	H / 3.0 / 270.0	N/A	N/A
1277.99	45.8 Qp	4.5 / 25.1 / 27.5	47.8	H / 3.0 / 180.0	N/A	N/A
213.00	61.4 Qp	1.6 / 11.1 / 27.7	46.4	H / 3.0 / 90.0	N/A	N/A
269.86	50.7 Qp	1.9 / 12.6 / 27.9	37.3	H / 1.0 / 0.0	N/A	N/A
284.00	65.0 Qp	1.9 / 12.5 / 27.8	51.6	H / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 3	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	DBE Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	4 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1561.99	46.1 Qp	5.2 / 27.2 / 27.4	51.0	H / 1.0 / 0.0	N/A	N/A
213.00	68.8 Qp	1.6 / 11.1 / 27.7	53.7	H / 1.0 / 90.0	N/A	N/A
284.00	70.1 Qp	1.9 / 12.5 / 27.8	56.7	H / 1.0 / 90.0	N/A	N/A
355.00	67.2 Qp	2.1 / 15.2 / 27.6	57.0	H / 1.0 / 90.0	N/A	N/A
1349.00	40.7 Qp	4.5 / 25.7 / 27.5	43.3	H / 1.0 / 90.0	N/A	N/A
269.86	53.8 Qp	1.9 / 12.6 / 27.9	40.3	H / 1.0 / 180.0	N/A	N/A
284.00	70.3 Qp	1.9 / 12.5 / 27.8	56.9	H / 1.0 / 180.0	N/A	N/A
355.00	67.7 Qp	2.1 / 15.2 / 27.6	57.4	H / 1.0 / 270.0	N/A	N/A
Maximized						
1795.99	64.9 Av	5.7 / 28.2 / 27.2	71.6	H / 1.1 / 63.0	N/A	N/A
710.00	71.3 Qp	3.2 / 20.4 / 27.4	67.4	V / 1.6 / 350.0	N/A	N/A
Antenna: LTS Horn ID# 2075						
2038.99	45.1 Av	6.9 / 29.7 / 27.2	54.4	V / 1.0 / 0.0	N/A	N/A
2839.98	33.4 Av	7.6 / 31.4 / 27.1	45.3	V / 1.0 / 0.0	N/A	N/A
Max'd						
2038.99	48.6 Av	6.9 / 29.7 / 27.2	58.0	V / 1.0 / 347.0	N/A	N/A
PreAmp: #2477Preamp(4-8GHZ)						
4077.98	44.6 Av	8.9 / 34.3 / 40.8	47.0	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 3	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	DBE Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	5 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
6116.83	48.1 Av	11.9 / 36.5 / 41.2	55.3	V / 1.0 / 0.0	N/A	N/A
Max'd						
6116.83	57.4 Av	11.9 / 36.5 / 41.2	64.6	H / 1.6 / 73.0	N/A	N/A
PreAmp: #2478 Preamp(8-18G)						
No significant emissions detected above 6116 MHz						
End scan 30 MHz to 20 GHz						
1800.99 MHz (Highest emission, Run 2)						
Sig Gen Lvl (-24.7dBm) - Cable Loss (9.9dB) + Xmit Horn Antenna Gain (7.0dBi) = -27.6dBm						

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 04	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	AD Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	1 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
Antenna: LTS Horn ID# 2075						
PreAmp: #2478 Preamp(8-18G)						
No significant emissions detected above 8 GHz						
PreAmp: #2477Preamp(4-8GHZ)						
Max'd						
4077.98	50.2 Av	8.9 / 34.3 / 40.8	52.7	V / 1.0 / 0.0	N/A	N/A
6116.83	47.2 Av	11.9 / 36.5 / 41.2	54.5	V / 1.0 / 0.0	N/A	N/A
Max'd						
4077.98	60.1 Av	8.9 / 34.3 / 40.8	62.5	V / 1.5 / 325.0	N/A	N/A
6116.83	56.1 Av	11.9 / 36.5 / 41.2	63.3	H / 1.6 / 325.0	N/A	N/A
PreAmp: LTS Preamp ID 2665						
2038.98	47.8 Av	6.9 / 29.7 / 27.2	57.2	V / 1.0 / 0.0	N/A	N/A
Max'd						
2038.98	53.0 Av	6.9 / 29.7 / 27.2	62.4	V / 1.3 / 81.0	N/A	N/A
Antenna: LTS Bilog 3M SN 102						
30.95	47.1 Qp	0.6 / 20.8 / 28.0	40.5	V / 1.0 / 0.0	N/A	N/A
31.45	51.4 Qp	0.6 / 20.7 / 28.0	44.6	V / 1.0 / 0.0	N/A	N/A
32.47	50.0 Qp	0.6 / 20.1 / 28.0	42.8	V / 1.0 / 0.0	N/A	N/A
43.12	62.2 Qp	0.7 / 16.2 / 27.9	51.2	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 04	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	AD Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	2 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
44.63	55.8 Qp	0.8 / 15.8 / 27.9	44.4	V / 1.0 / 0.0	N/A	N/A
47.17	50.5 Qp	0.8 / 15.1 / 27.8	38.6	V / 1.0 / 0.0	N/A	N/A
60.38	56.1 Qp	0.9 / 11.9 / 27.8	41.1	V / 1.0 / 0.0	N/A	N/A
62.39	59.9 Qp	0.9 / 11.3 / 27.8	44.2	V / 1.0 / 0.0	N/A	N/A
62.90	57.8 Qp	0.9 / 11.2 / 27.8	42.1	V / 1.0 / 0.0	N/A	N/A
63.91	53.8 Qp	0.9 / 10.9 / 27.8	37.8	V / 1.0 / 0.0	N/A	N/A
78.66	60.8 Qp	1.0 / 7.7 / 27.9	41.6	V / 1.0 / 0.0	N/A	N/A
131.27	46.6 Qp	1.3 / 8.4 / 27.9	28.4	V / 1.0 / 0.0	N/A	N/A
142.00	74.6 Qp	1.3 / 9.3 / 27.9	57.3	V / 1.0 / 0.0	N/A	N/A
152.80	53.9 Qp	1.4 / 9.5 / 27.9	37.0	V / 1.0 / 0.0	N/A	N/A
179.30	49.8 Qp	1.6 / 9.4 / 27.9	32.8	V / 1.0 / 0.0	N/A	N/A
213.00	55.4 Qp	1.6 / 11.1 / 27.7	40.4	V / 1.0 / 0.0	N/A	N/A
269.86	42.9 Qp	1.9 / 12.6 / 27.9	29.5	V / 1.0 / 0.0	N/A	N/A
269.91	42.8 Qp	1.9 / 12.6 / 27.9	29.4	V / 1.0 / 0.0	N/A	N/A
284.00	60.8 Qp	1.9 / 12.5 / 27.8	47.4	V / 1.0 / 0.0	N/A	N/A
355.00	48.4 Qp	2.1 / 15.2 / 27.6	38.1	V / 1.0 / 0.0	N/A	N/A
426.00	57.0 Qp	2.4 / 16.9 / 27.7	48.6	V / 1.0 / 0.0	N/A	N/A
710.00	61.1 Qp	3.2 / 20.4 / 27.4	57.2	V / 1.0 / 0.0	N/A	N/A
781.00	45.9 Qp	3.3 / 21.8 / 27.4	43.5	V / 1.0 / 0.0	N/A	N/A
852.00	39.2 Qp	3.5 / 22.2 / 27.2	37.7	V / 1.0 / 0.0	N/A	N/A
994.00	44.5 Qp	4.0 / 23.6 / 27.2	44.8	V / 1.0 / 0.0	N/A	N/A
1065.00	33.2 Av	4.0 / 23.1 / 27.2	33.1	V / 1.0 / 0.0	N/A	N/A
1135.99	38.6 Av	4.3 / 23.9 / 27.2	39.7	V / 1.0 / 0.0	N/A	N/A
1277.99	43.0 Av	4.5 / 25.1 / 27.5	45.0	V / 1.0 / 0.0	N/A	N/A
1349.00	41.5 Av	4.5 / 25.7 / 27.5	44.1	V / 1.0 / 0.0	N/A	N/A
1490.99	33.2 Av	5.1 / 27.1 / 27.3	38.1	V / 1.0 / 0.0	N/A	N/A
1561.99	37.1 Av	5.2 / 27.2 / 27.4	42.1	V / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 04	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	AD Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	3 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1639.49	39.1 Av	5.4 / 28.1 / 27.2	45.4	V / 1.0 / 0.0	N/A	N/A
1795.99	57.6 Av	5.7 / 28.2 / 27.2	64.3	V / 1.0 / 0.0	N/A	N/A
32.47	52.5 Qp	0.6 / 20.1 / 28.0	45.2	V / 1.0 / 90.0	N/A	N/A
43.12	63.2 Qp	0.7 / 16.2 / 27.9	52.3	V / 1.0 / 90.0	N/A	N/A
44.63	57.6 Qp	0.8 / 15.8 / 27.9	46.3	V / 1.0 / 90.0	N/A	N/A
63.91	55.1 Qp	0.9 / 10.9 / 27.8	39.1	V / 1.0 / 90.0	N/A	N/A
78.66	61.6 Qp	1.0 / 7.7 / 27.9	42.4	V / 1.0 / 90.0	N/A	N/A
131.27	46.9 Qp	1.3 / 8.4 / 27.9	28.7	V / 1.0 / 90.0	N/A	N/A
179.30	51.0 Qp	1.6 / 9.4 / 27.9	34.1	V / 1.0 / 90.0	N/A	N/A
213.00	57.1 Qp	1.6 / 11.1 / 27.7	42.1	V / 1.0 / 90.0	N/A	N/A
269.86	46.6 Qp	1.9 / 12.6 / 27.9	33.1	V / 1.0 / 90.0	N/A	N/A
284.00	65.0 Qp	1.9 / 12.5 / 27.8	51.7	V / 1.0 / 90.0	N/A	N/A
355.00	53.4 Qp	2.1 / 15.2 / 27.6	43.1	V / 1.0 / 90.0	N/A	N/A
994.00	54.9 Qp	4.0 / 23.6 / 27.2	55.2	V / 1.0 / 90.0	N/A	N/A
1065.00	42.7 Av	4.0 / 23.1 / 27.2	42.6	V / 1.0 / 90.0	N/A	N/A
1135.99	40.1 Av	4.3 / 23.9 / 27.2	41.1	V / 1.0 / 90.0	N/A	N/A
1490.99	35.8 Av	5.1 / 27.1 / 27.3	40.7	V / 1.0 / 90.0	N/A	N/A
1561.99	38.5 Av	5.2 / 27.2 / 27.4	43.4	V / 1.0 / 90.0	N/A	N/A
60.38	56.8 Qp	0.9 / 11.9 / 27.8	41.7	V / 1.0 / 180.0	N/A	N/A
62.39	65.0 Qp	0.9 / 11.3 / 27.8	49.4	V / 1.0 / 180.0	N/A	N/A
62.90	67.3 Qp	0.9 / 11.2 / 27.8	51.6	V / 1.0 / 180.0	N/A	N/A
63.91	64.7 Qp	0.9 / 10.9 / 27.8	48.7	V / 1.0 / 180.0	N/A	N/A
213.00	59.2 Qp	1.6 / 11.1 / 27.7	44.2	V / 1.0 / 180.0	N/A	N/A
426.00	58.0 Qp	2.4 / 16.9 / 27.7	49.5	V / 1.0 / 180.0	N/A	N/A
781.00	50.0 Qp	3.3 / 21.8 / 27.4	47.6	V / 1.0 / 180.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 04	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	AD Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	4 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV/m)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
1490.99	36.9 Av	5.1 / 27.1 / 27.3	41.8	V / 1.0 / 180.0	N/A	N/A
1561.99	38.9 Av	5.2 / 27.2 / 27.4	43.8	V / 1.0 / 180.0	N/A	N/A
1639.49	41.1 Av	5.4 / 28.1 / 27.2	47.3	V / 1.0 / 180.0	N/A	N/A
131.27	48.1 Qp	1.3 / 8.4 / 27.9	29.8	V / 1.0 / 270.0	N/A	N/A
142.00	78.2 Qp	1.3 / 9.3 / 27.9	60.9	V / 1.0 / 270.0	N/A	N/A
355.00	58.8 Qp	2.1 / 15.2 / 27.6	48.5	V / 1.0 / 270.0	N/A	N/A
1490.99	39.1 Av	5.1 / 27.1 / 27.3	44.0	V / 1.0 / 270.0	N/A	N/A
131.27	51.5 Qp	1.3 / 8.4 / 27.9	33.2	H / 3.0 / 270.0	N/A	N/A
152.80	58.1 Qp	1.4 / 9.5 / 27.9	41.2	H / 3.0 / 270.0	N/A	N/A
355.00	60.1 Qp	2.1 / 15.2 / 27.6	49.8	H / 3.0 / 270.0	N/A	N/A
355.00	61.7 Qp	2.1 / 15.2 / 27.6	51.4	H / 3.0 / 180.0	N/A	N/A
213.00	64.2 Qp	1.6 / 11.1 / 27.7	49.2	H / 3.0 / 90.0	N/A	N/A
355.00	63.4 Qp	2.1 / 15.2 / 27.6	53.1	H / 3.0 / 90.0	N/A	N/A
1490.99	39.8 Av	5.1 / 27.1 / 27.3	44.7	H / 3.0 / 0.0	N/A	N/A
1639.49	45.0 Av	5.4 / 28.1 / 27.2	51.2	H / 3.0 / 0.0	N/A	N/A
269.86	49.5 Qp	1.9 / 12.6 / 27.9	36.1	H / 1.0 / 0.0	N/A	N/A
284.00	67.4 Qp	1.9 / 12.5 / 27.8	54.0	H / 1.0 / 0.0	N/A	N/A
426.00	59.4 Qp	2.4 / 16.9 / 27.7	50.9	H / 1.0 / 0.0	N/A	N/A
1490.99	44.3 Av	5.1 / 27.1 / 27.3	49.2	H / 1.0 / 0.0	N/A	N/A
1639.49	49.1 Av	5.4 / 28.1 / 27.2	55.3	H / 1.0 / 0.0	N/A	N/A

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Radiated Electromagnetic Emissions



Test Report #:	1819 Run 04	Test Area:	LTS 3m	
Test Method:	N/A	Test Date:	10-Apr-2002	
EUT Model #:	AD Block	EUT Power:	30vdc / 110vac	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC	Relative Humidity:	27	%
EUT Description:	Host/STM	Air Pressure:	99.3	kPa
Notes:			Page:	5 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	DELTA1 N/A	DELTA2 N/A
213.00	69.0 Qp	1.6 / 11.1 / 27.7	54.0	H / 1.0 / 90.0	N/A	N/A
284.00	71.3 Qp	1.9 / 12.5 / 27.8	57.9	H / 1.0 / 90.0	N/A	N/A
355.00	68.7 Qp	2.1 / 15.2 / 27.6	58.4	H / 1.0 / 90.0	N/A	N/A
852.00	42.1 Qp	3.5 / 22.2 / 27.2	40.6	H / 1.0 / 90.0	N/A	N/A
269.86	51.6 Qp	1.9 / 12.6 / 27.9	38.2	H / 1.0 / 180.0	N/A	N/A
852.00	43.4 Qp	3.5 / 22.2 / 27.2	41.9	H / 1.0 / 180.0	N/A	N/A
426.00	62.4 Qp	2.4 / 16.9 / 27.7	53.9	H / 1.0 / 270.0	N/A	N/A
1135.99	43.6 Av	4.3 / 23.9 / 27.2	44.6	H / 1.0 / 270.0	N/A	N/A
Max'd						
1795.99	64.9 Av	5.7 / 28.2 / 27.2	71.6	H / 1.1 / 58.0	N/A	N/A
142.00	78.4 Qp	1.3 / 9.3 / 27.9	61.1	V / 1.0 / 273.0	N/A	N/A
End scan 30 MHz to 20 GHz						
1800.99 MHz (Highest Emission, Run 2)						
Sig Gen Lvl (-24.7dBm) - Cable Loss (9.9dB) + Xmit Horn Antenna Gain (7.0dBi) = -27.6dBm						

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Inter-Modulation Test for ADC Inc.
Digivance Long Range Coverage System
Model Numbers DGVL-431110SYS, DGVL-441110SYS,
DGVL-451110SYS, and DGVL-461110SYS.

The intermodulation product test was performed for each bandwidth setting of the EUT. Two tests were performed with each modulation type. Test 1 was with two signals input into the EUT at lower end channels. Test 2 was with two signals, one at a lower end channel and one at a higher end channel. The modulation types tested were CDMA, TDMA, and FM (1 kHz @ 8 kHz deviation). An investigation was made from 30 MHz to the 10th harmonic of the highest fundamental frequency (~20 GHz).

Results:

Pass (see plots)

Intermodulation

BAND A,D

Close

FM

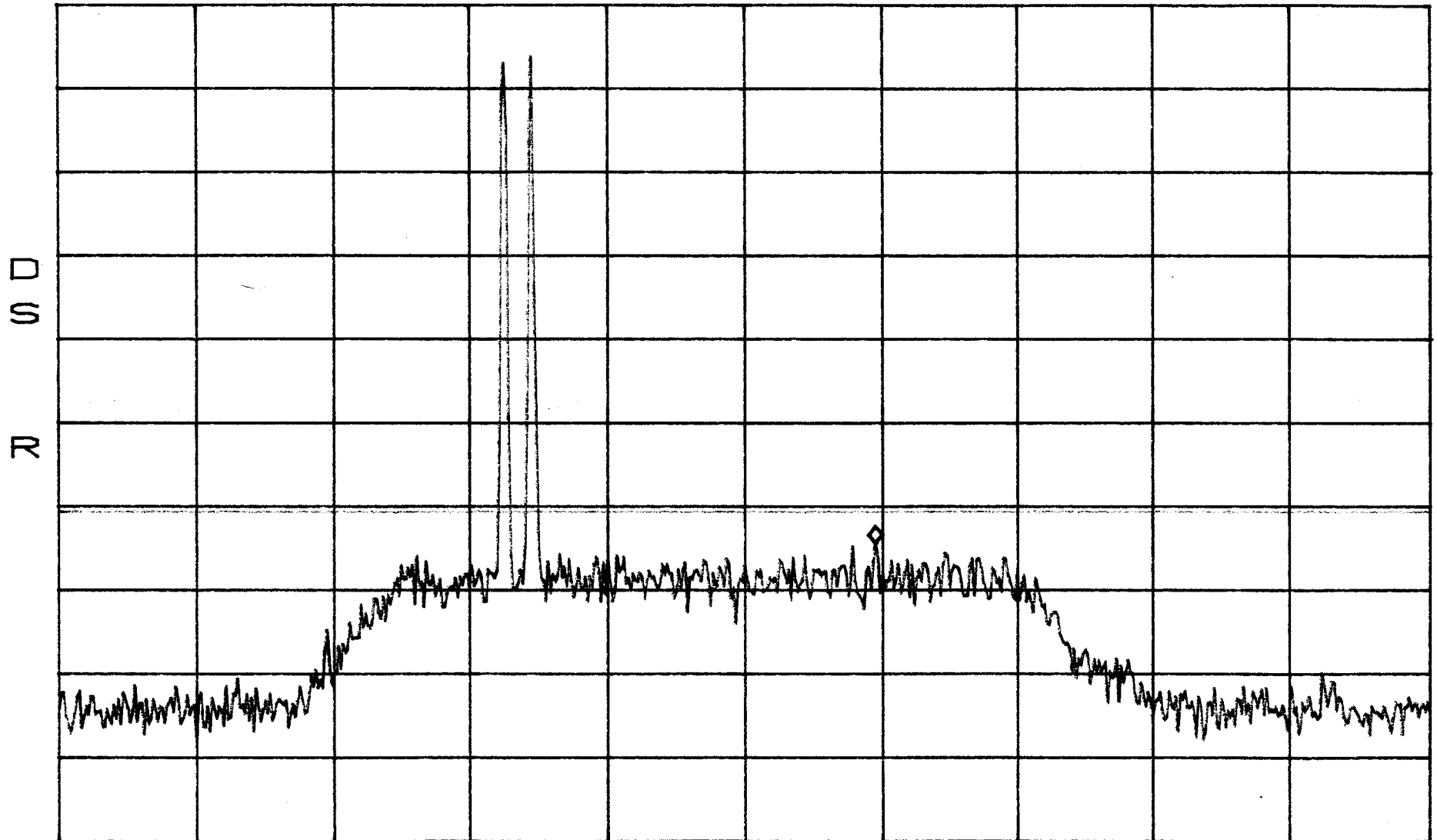
*ATTEN 20dB

MKR -16.53dBm

RL 47.8dBm

10dB/

1.94475GHz



CENTER 1.94000GHz

SPAN 50.00MHz

*RBW 30kHz

VBW 30kHz

SWP 140ms

Intermodulation

BAND A,D

Close

FM

*ATTEN 20dB

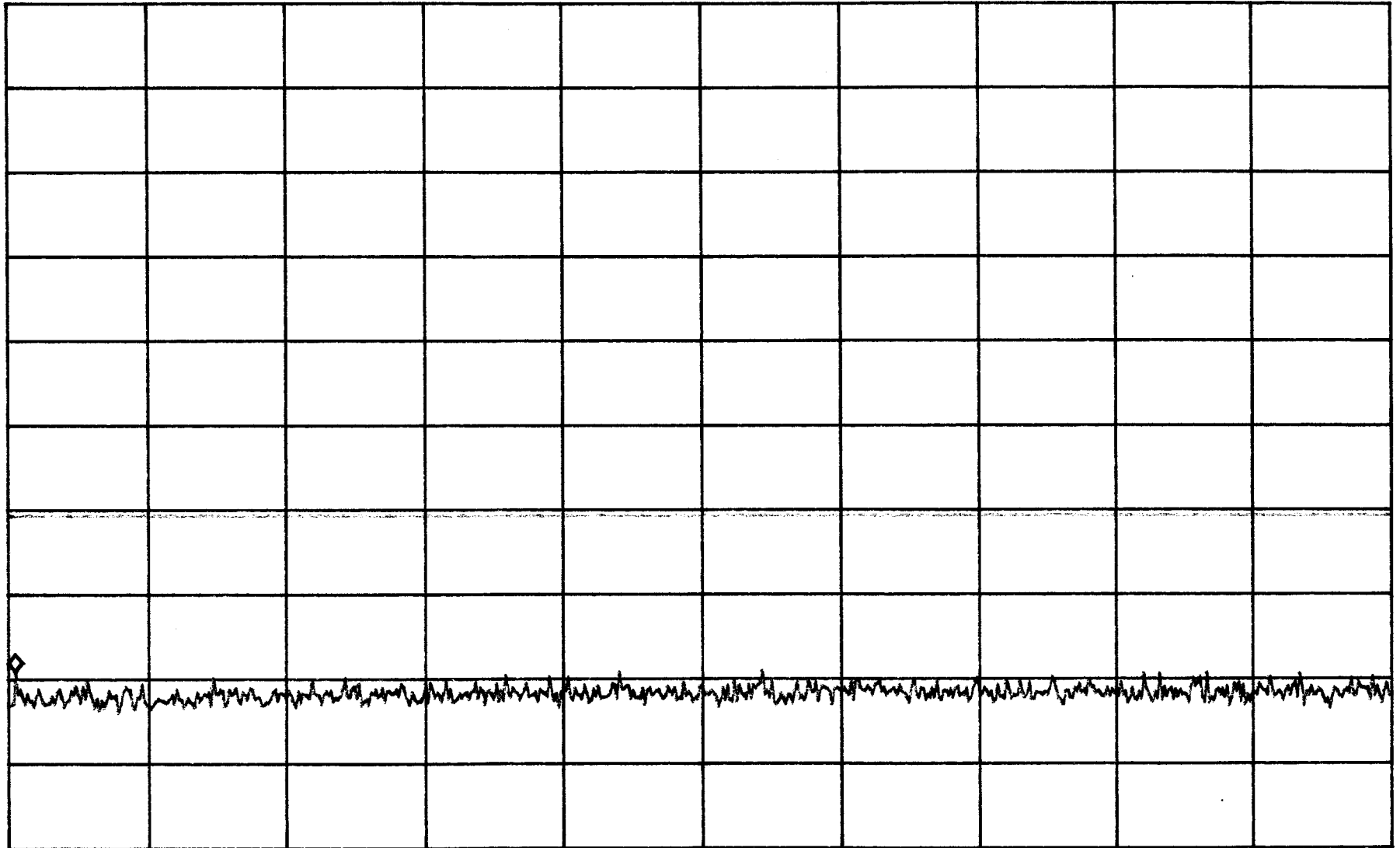
MKR -31.20dBm

RL 47.8dBm

10dB/

34.9MHz

SDR



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

Intermodulation

BAND A,D

Close

FM

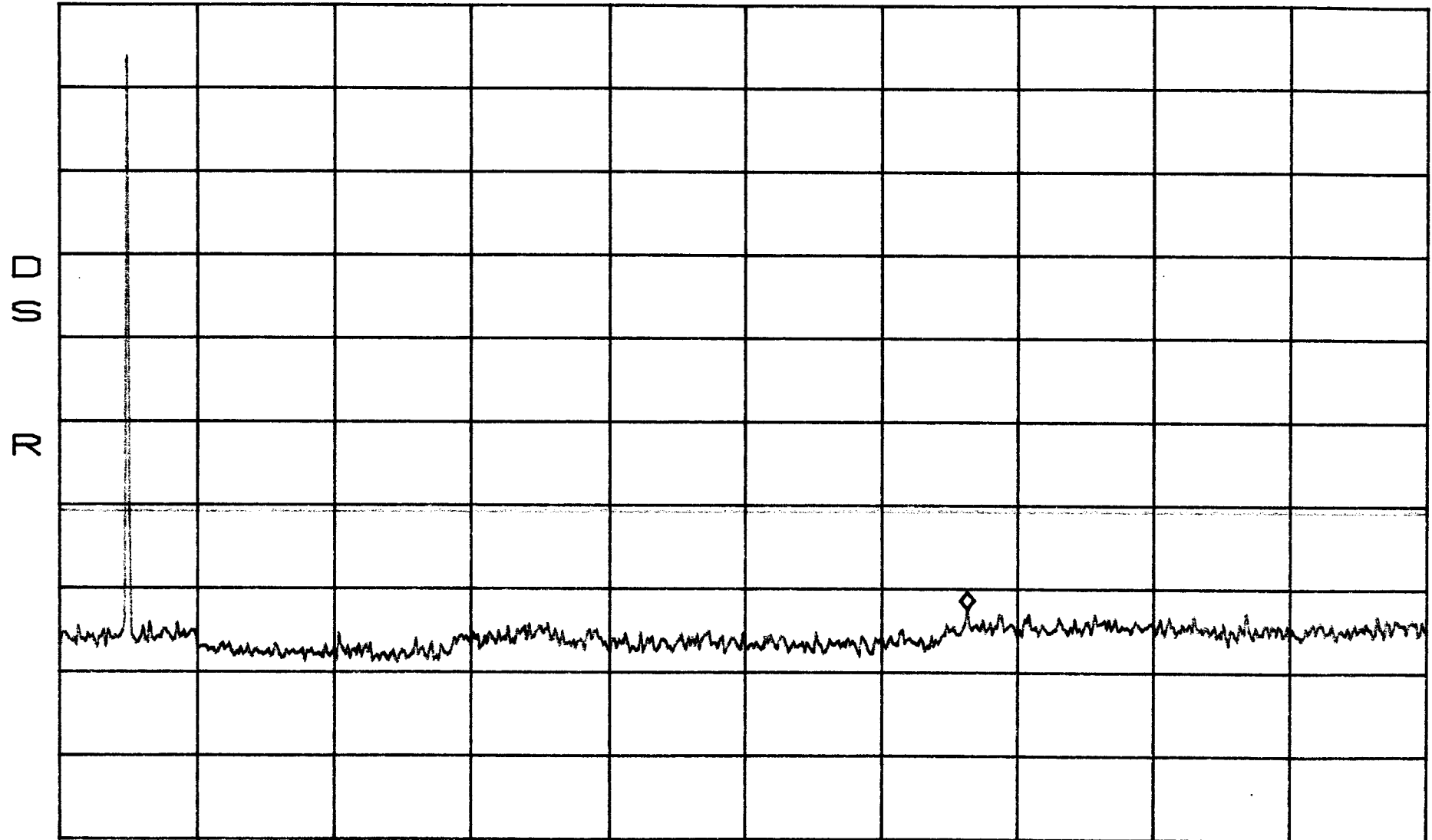
*ATTEN 20dB

MKR -24.53dBm

RL 47.8dBm

10dB/

13.60GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

SWP 4.8sec

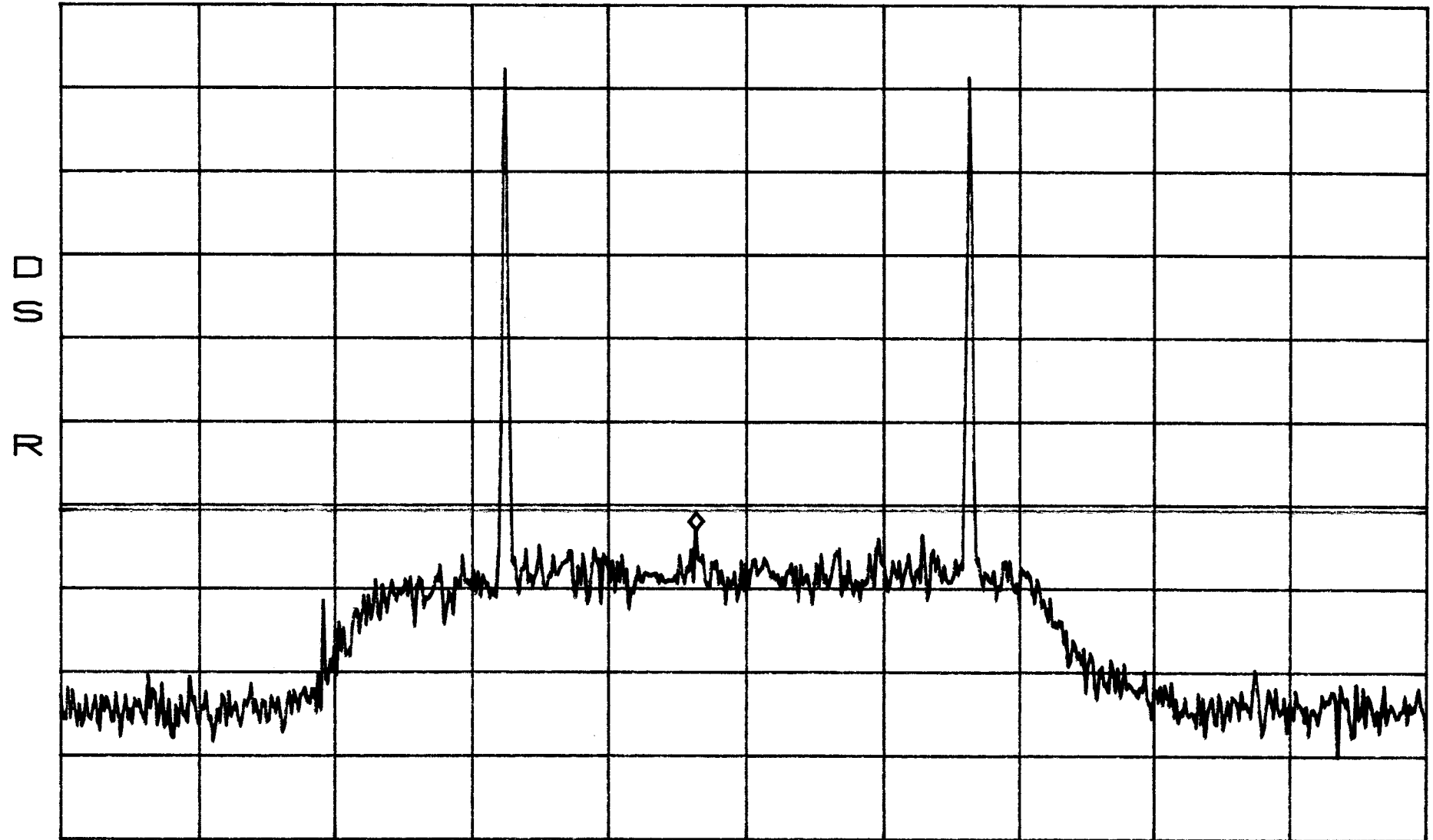
Intermodulation
Apert
FM

BAND A_D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -15.03dBm
1.93817GHz



CENTER 1.94000GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

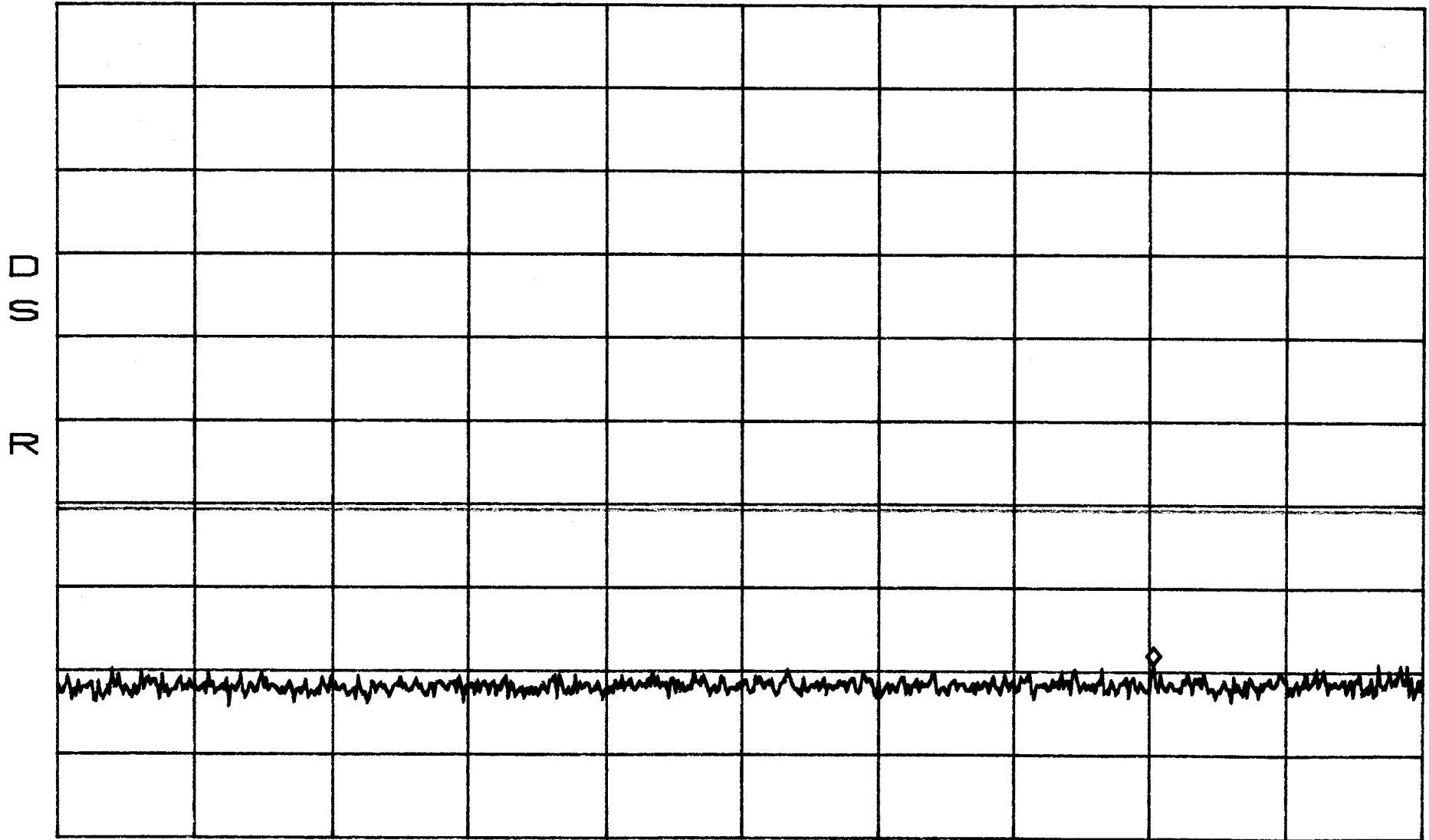
Intermodulation
Apert
FM

BAND A,D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.20dBm
809.2MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

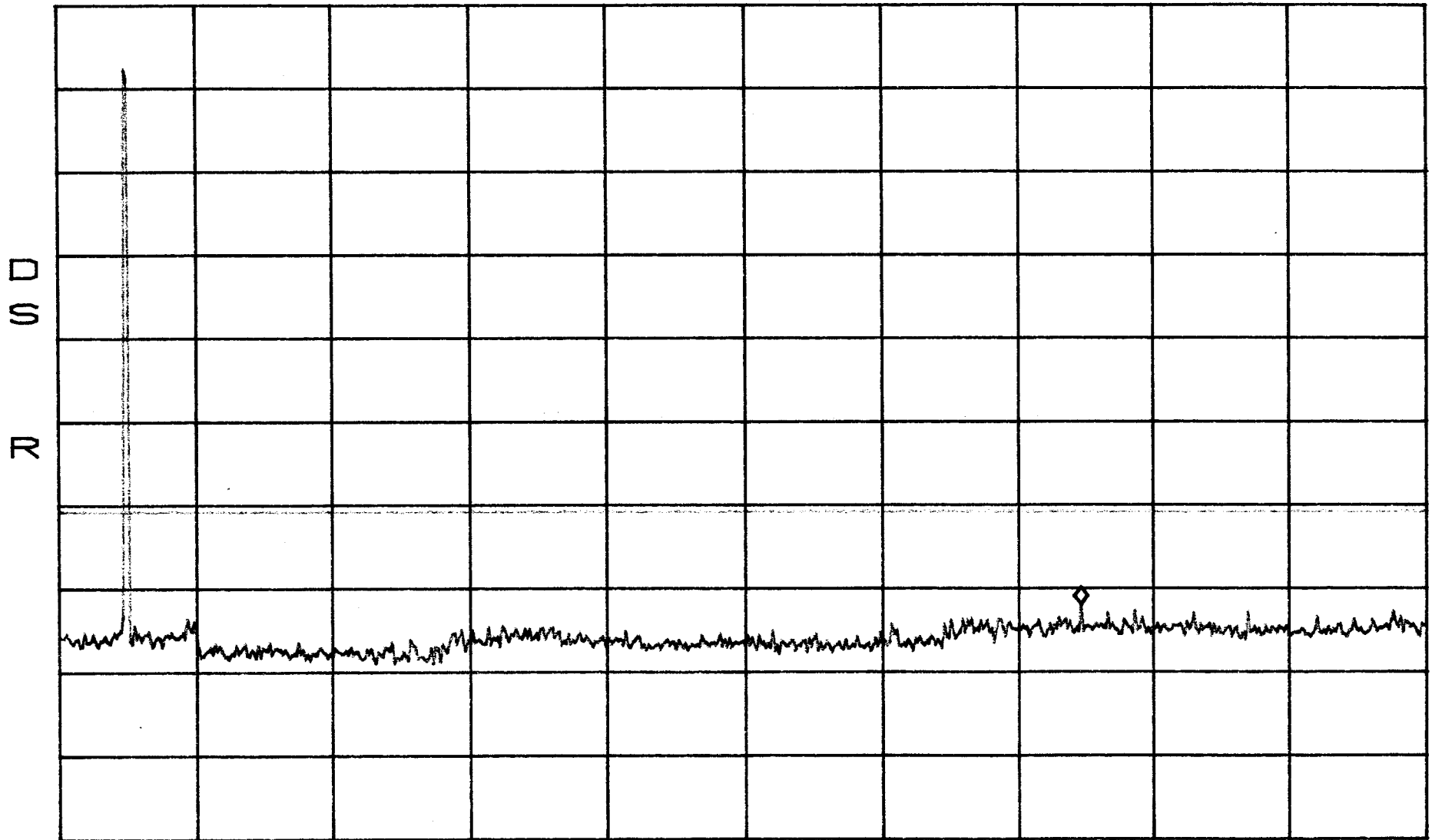
SWP 2.7sec

Intermodulation BAND A,D
Apert
FM

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.03dBm
15.19GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

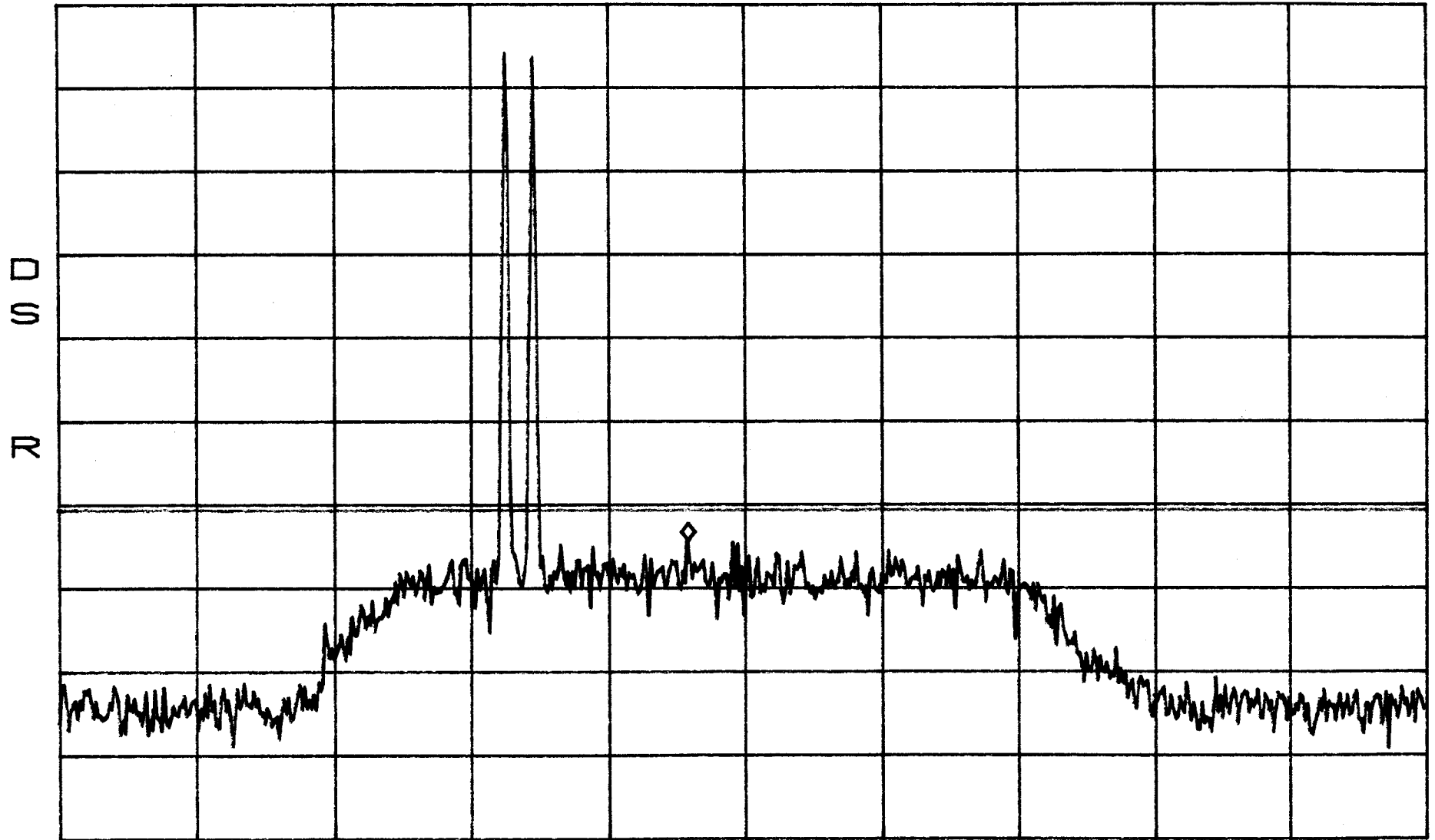
Intermodulation
Close
TDMA

BAND A,D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -16.37dBm
1.93792GHz



CENTER 1.94000GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

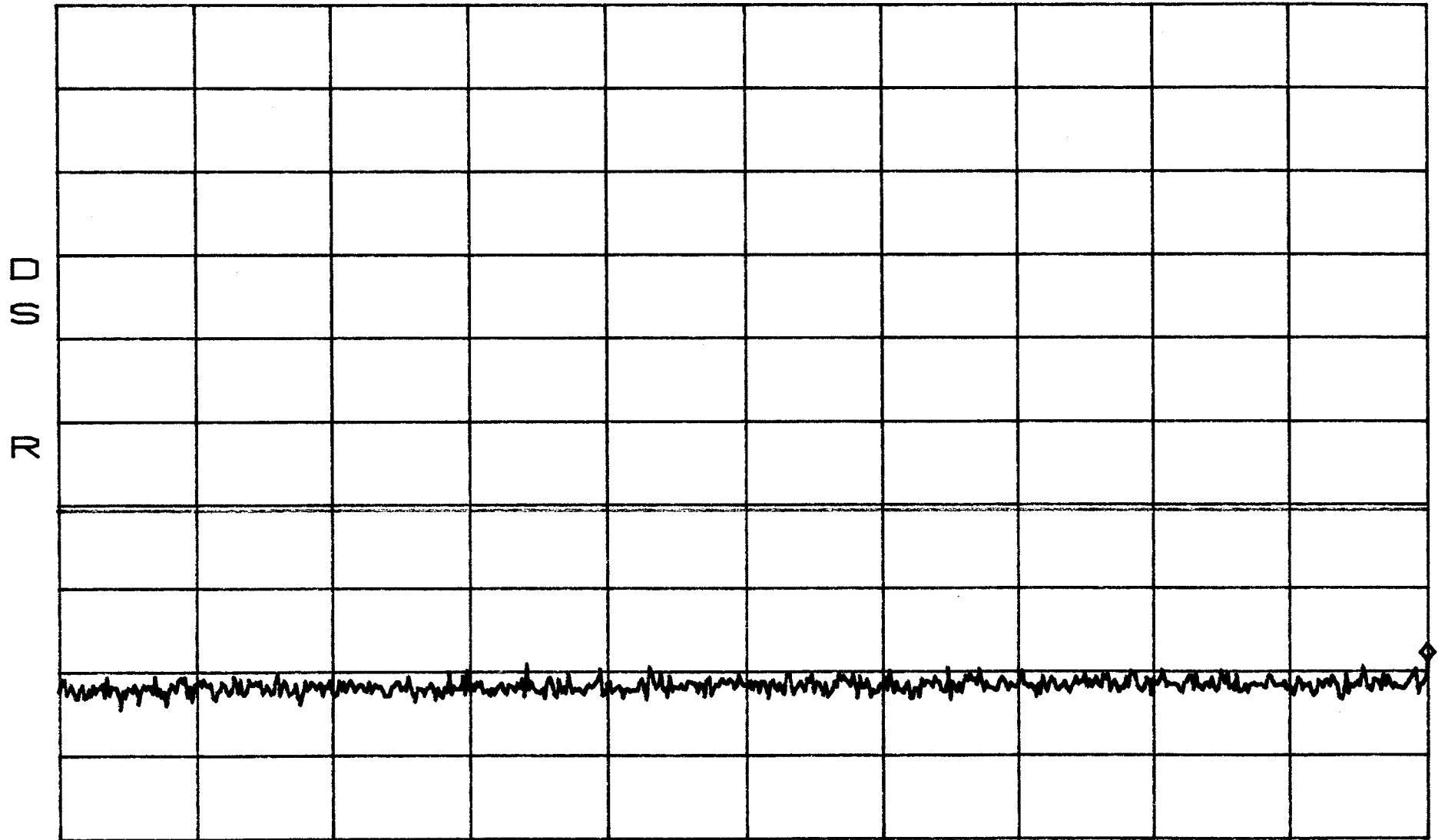
Intermodulation
Close
TDMA

BAND A,D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.87dBm
1.00000GHz



START 30.0MHz

STOP 1.00000GHz

*RBW 30kHz

VBW 30kHz

SWP 2.7sec

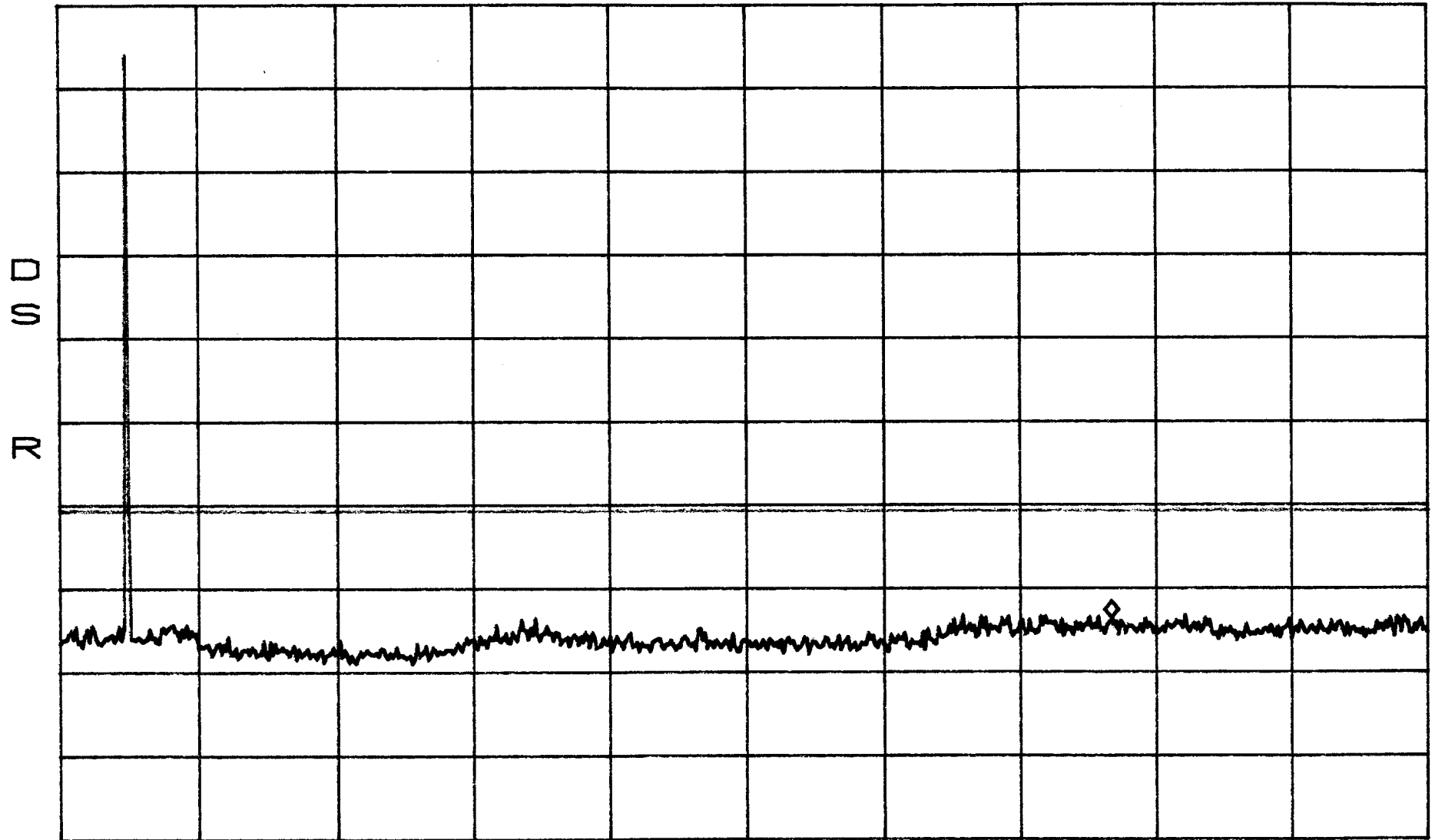
Intermodulation
Close
TDMA

BAND A,D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -25.70dBm
15.57GHz



START 1.00GHz

STOP 20.00GHz

*RBW 100kHz

VBW 100kHz

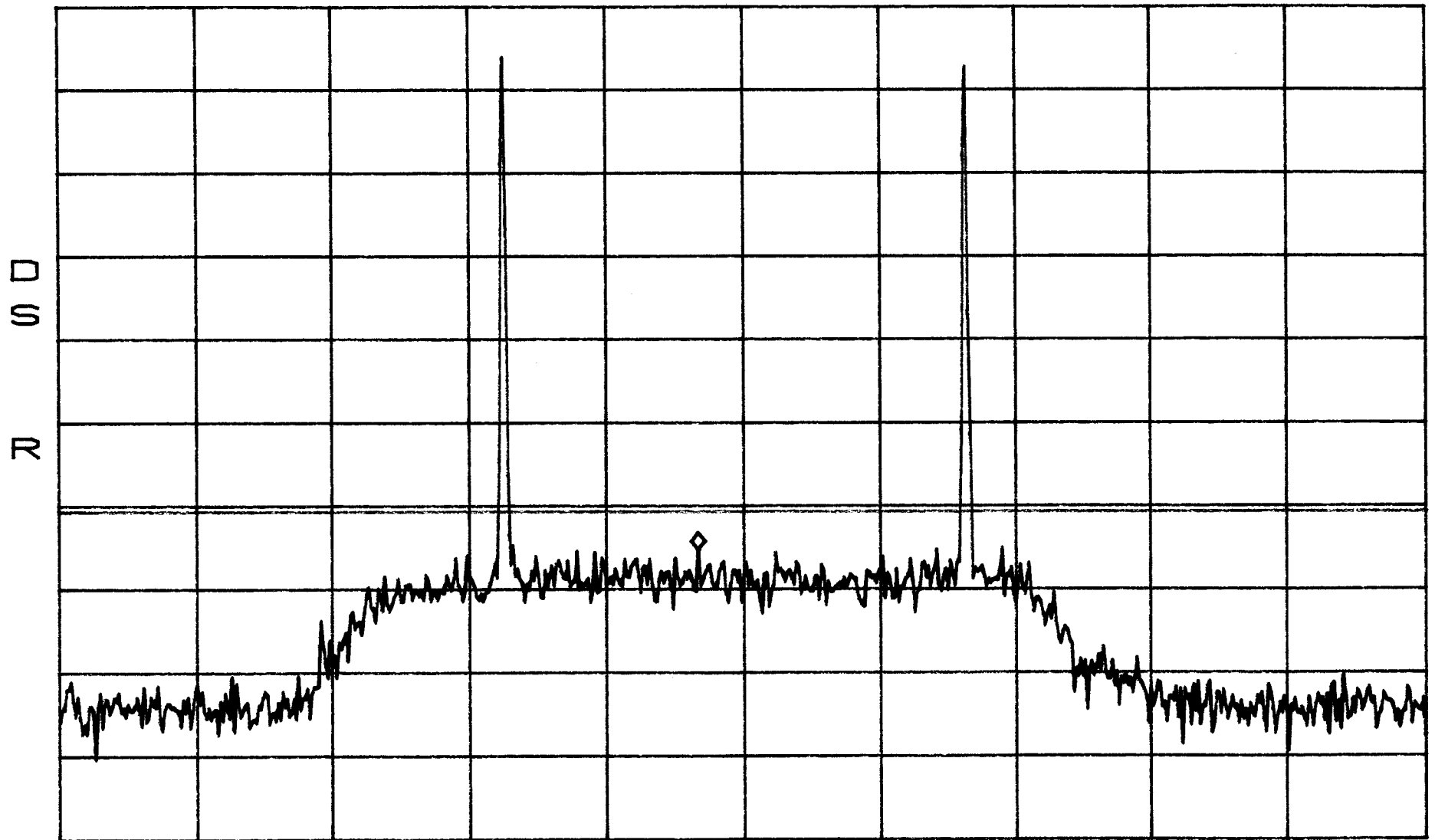
SWP 4.8sec

Intermodulation BAND A,D
Apart
TDMA

*ATTEN 20dB
RL 47.8dBm

MKR -17.37dBm
1.93833GHz

10dB/



CENTER 1.94000GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

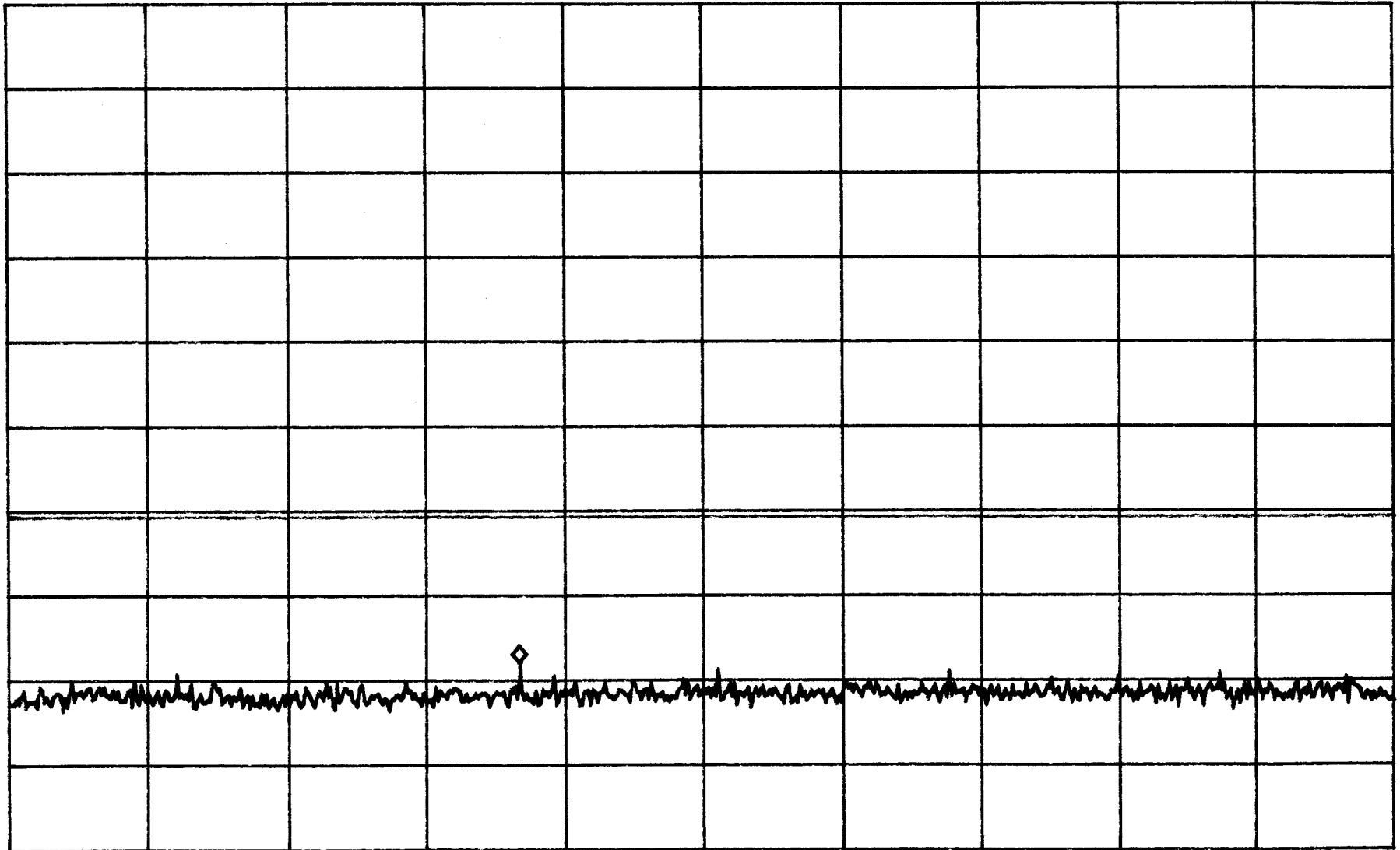
Intermodulation BAND A,D
Apart
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.03dBm
385.7MHz

SDR



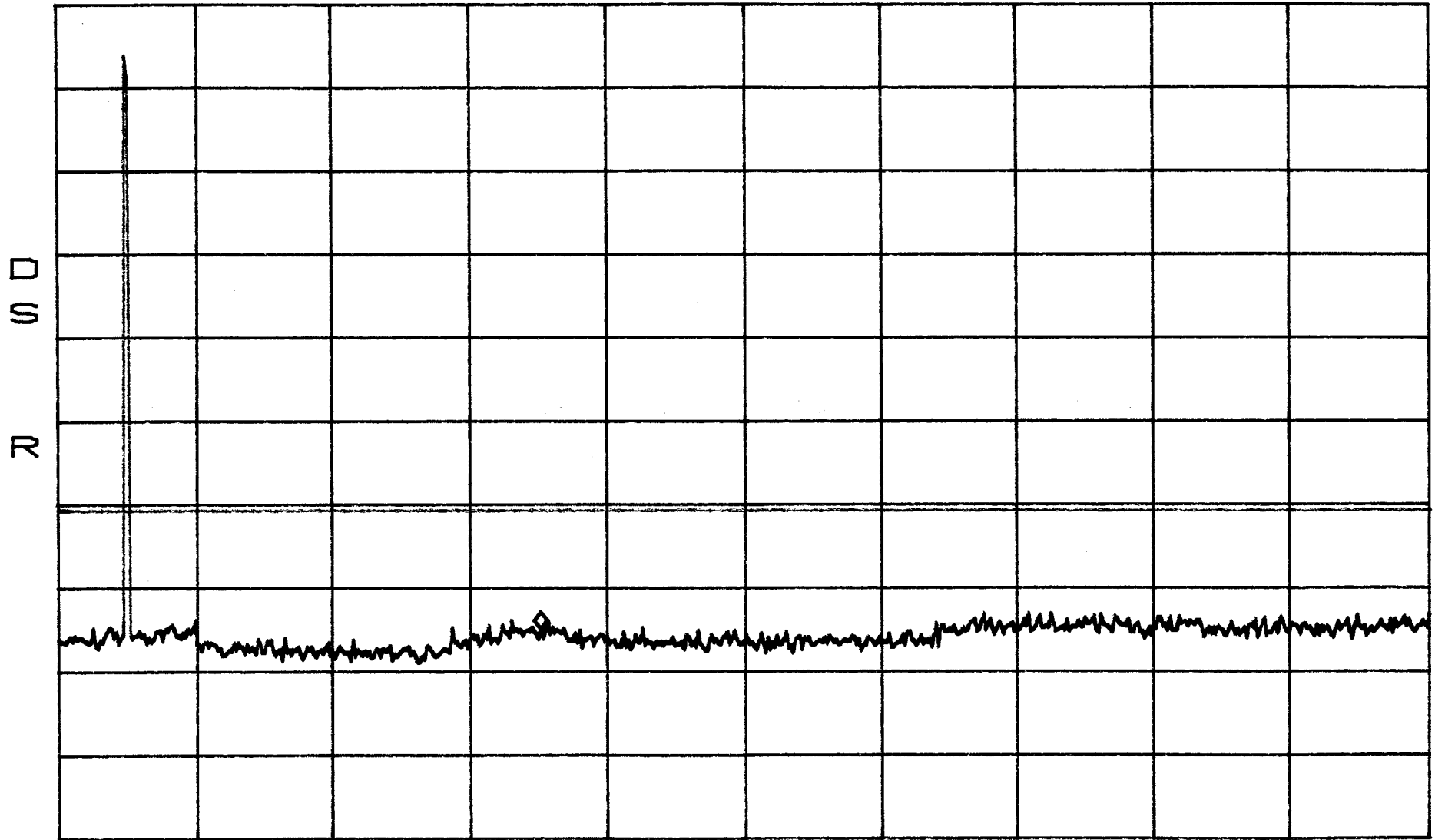
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND A,D
Apert
TDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -27.03dBm
7.68GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

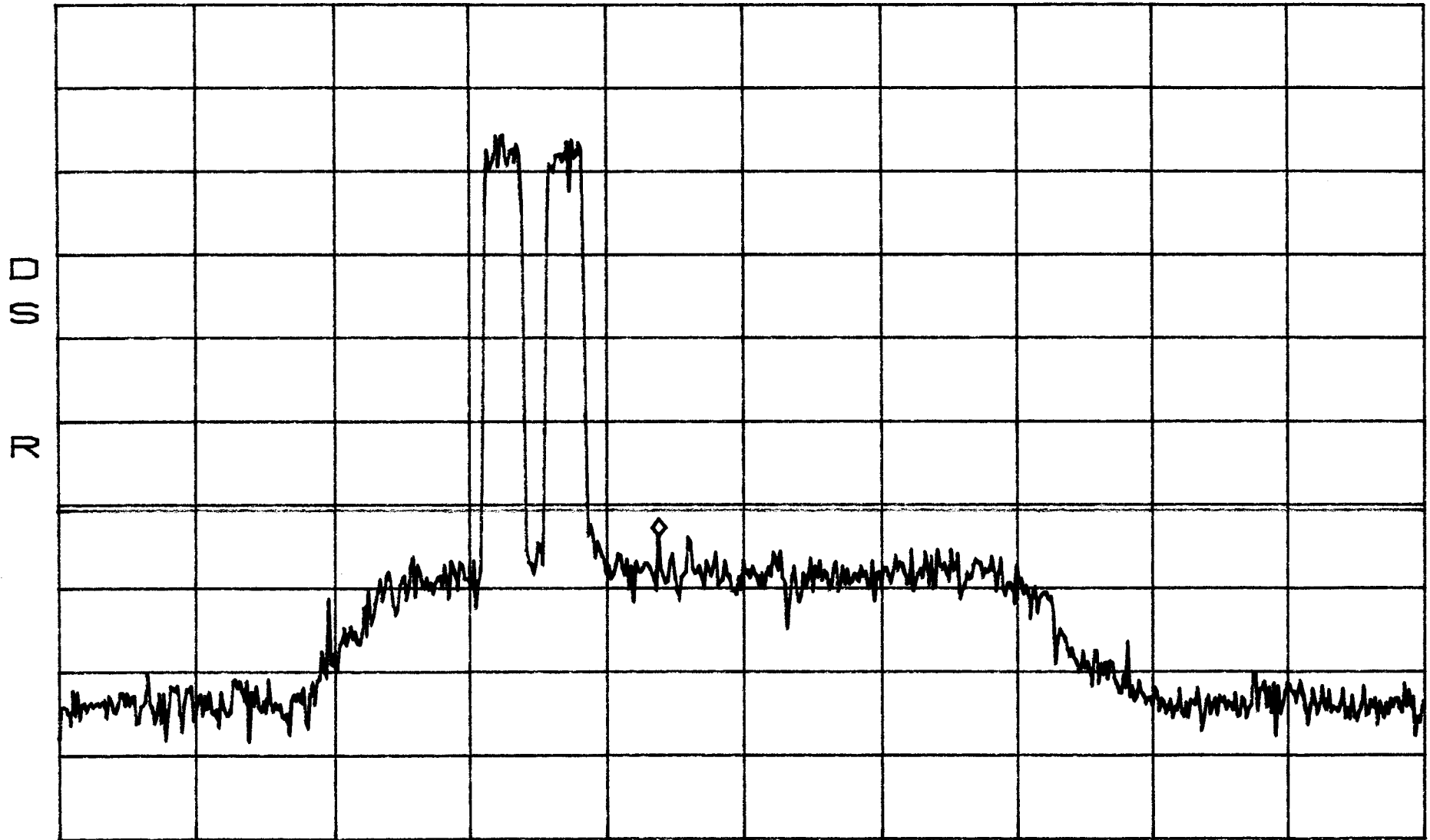
Intermodulation
Close
CDMA

BAND A,D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -15.87dBm
1.93692GHz



CENTER 1.94000GHz SPAN 50.00MHz
*RBW 30kHz VBW 30kHz SWP 140ms

Intermodulation
Close
CDMA

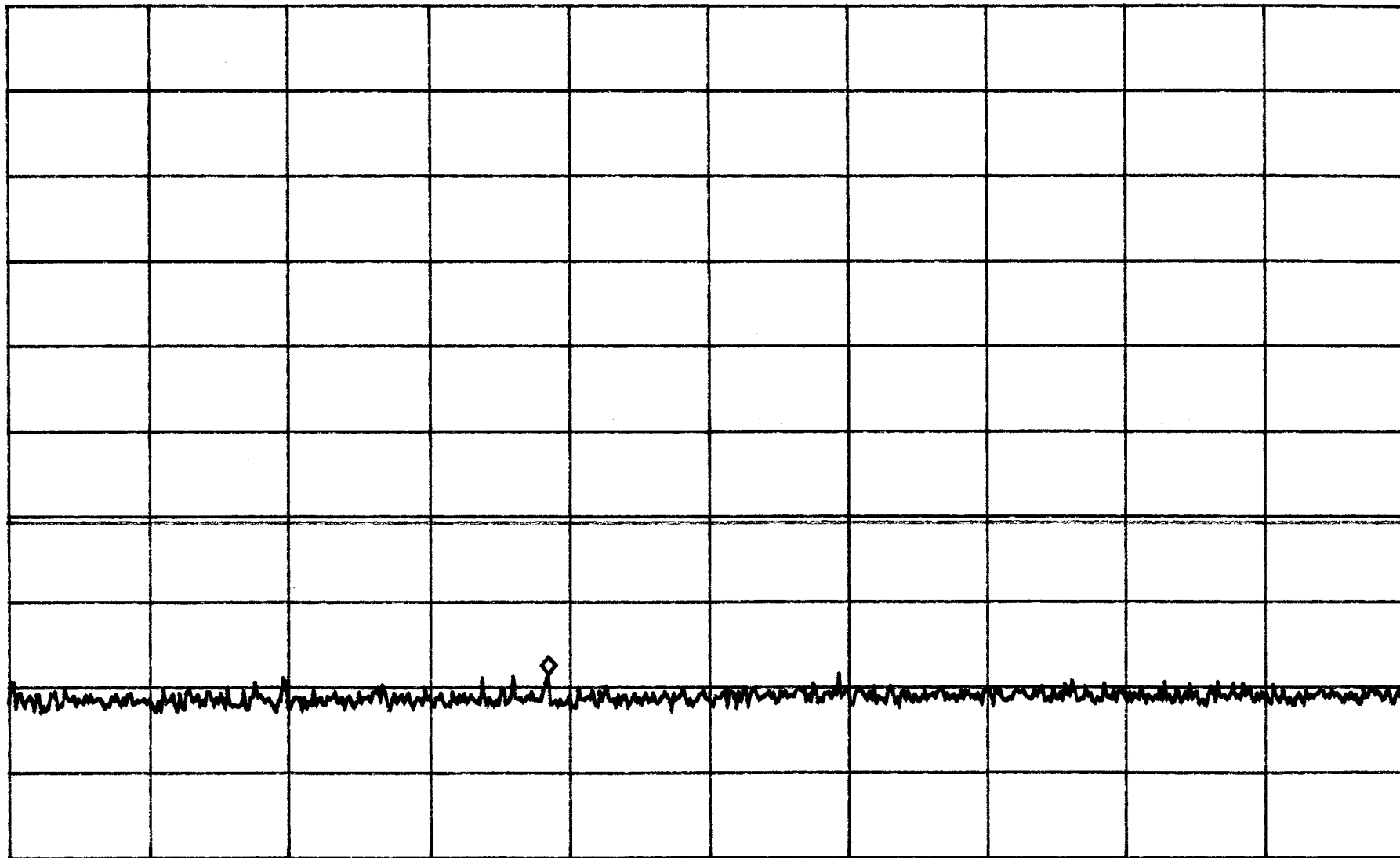
BAND A.D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -30.53dBm
403.5MHz

SD
R



START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

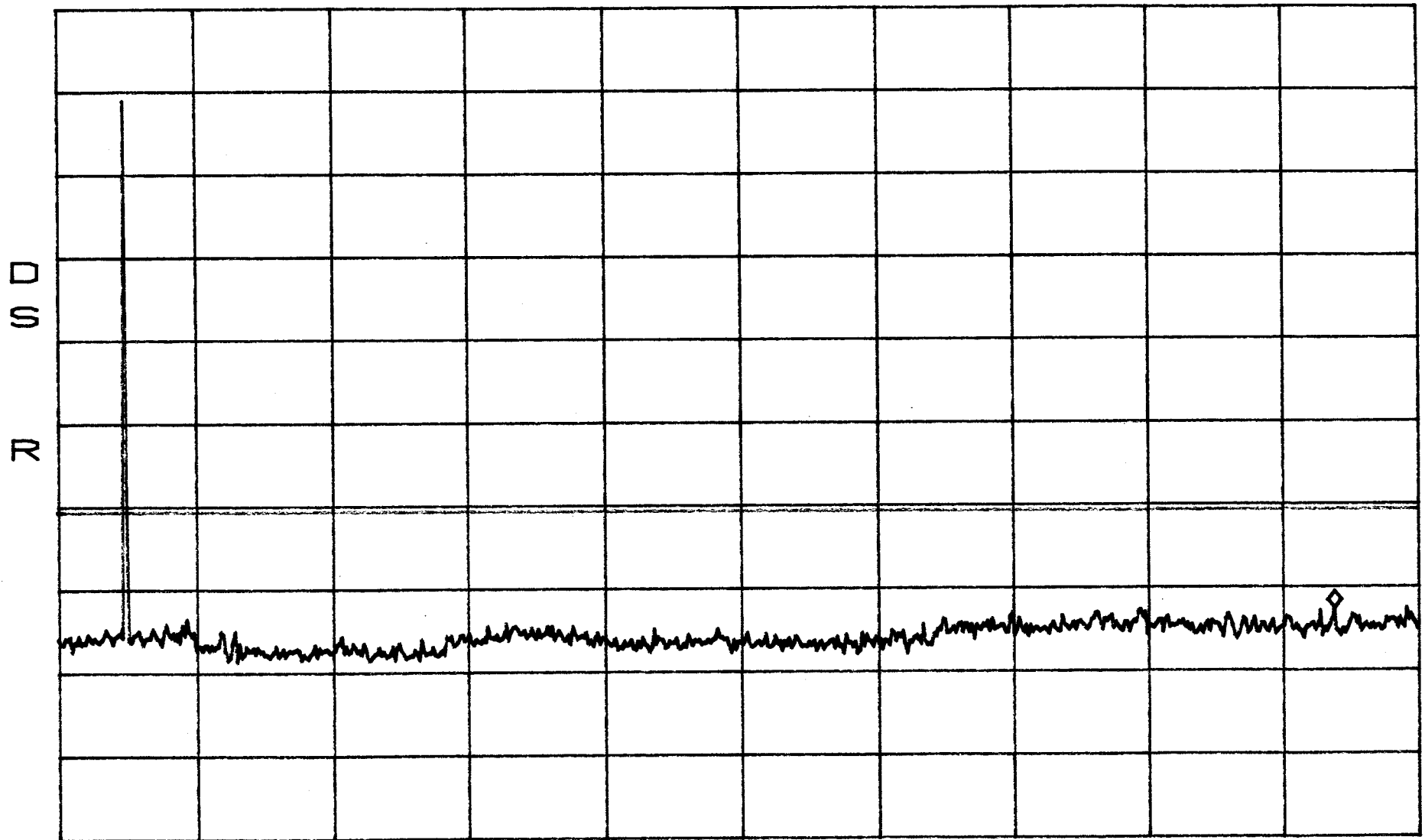
Intermodulation
Close
CDMA

BAND A,D

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.70dBm
18.83GHz



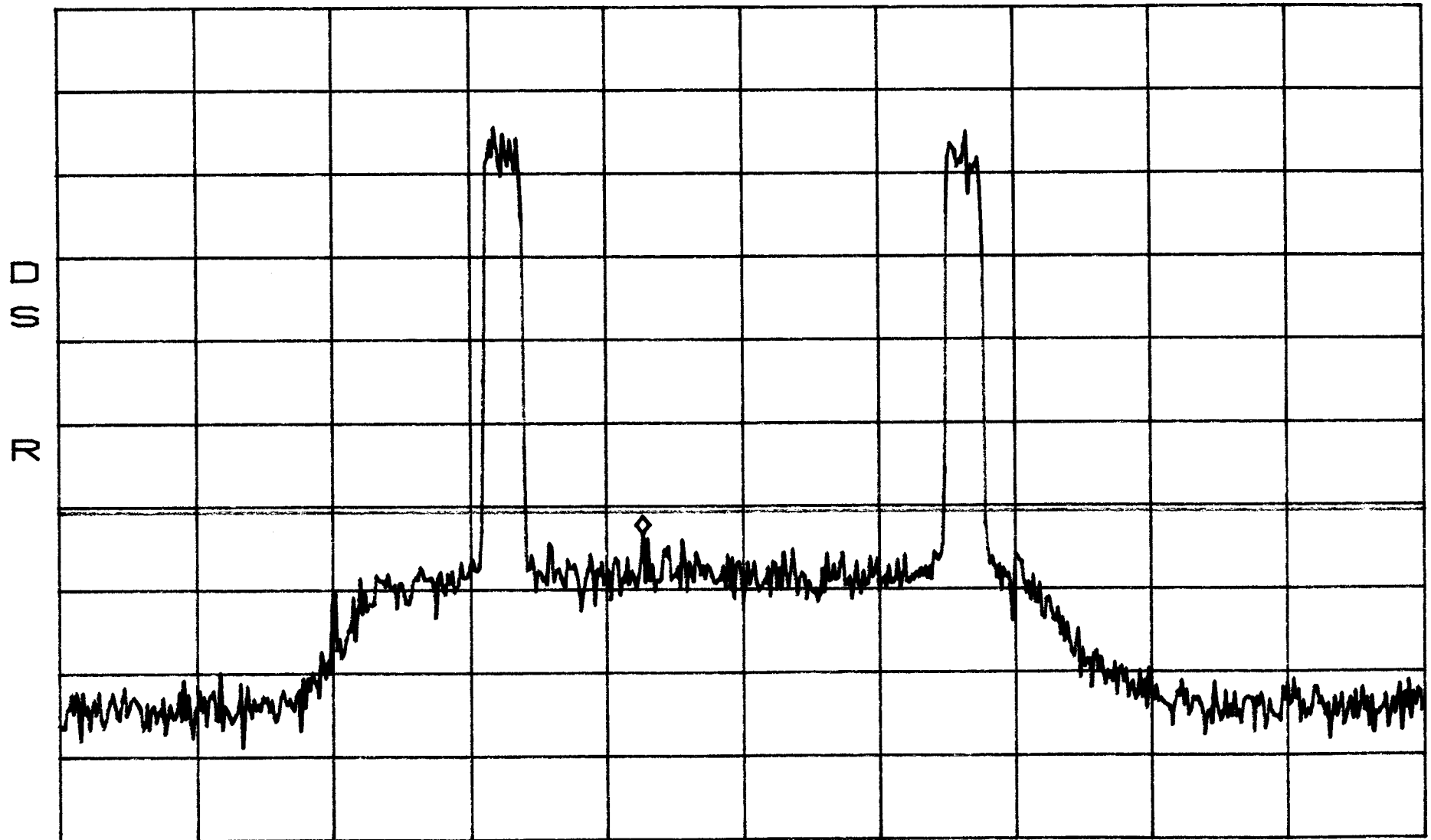
START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Intermodulation BAND A,D
Apart
CDMA

*ATTEN 20dB
RL 47.8dBm

MKR -15.37dBm
1.93633GHz

10dB/



CENTER 1.94000GHz
*RBW 30kHz VBW 30kHz

SPAN 50.00MHz
SWP 140ms

Intermodulation
Apert
CDMA

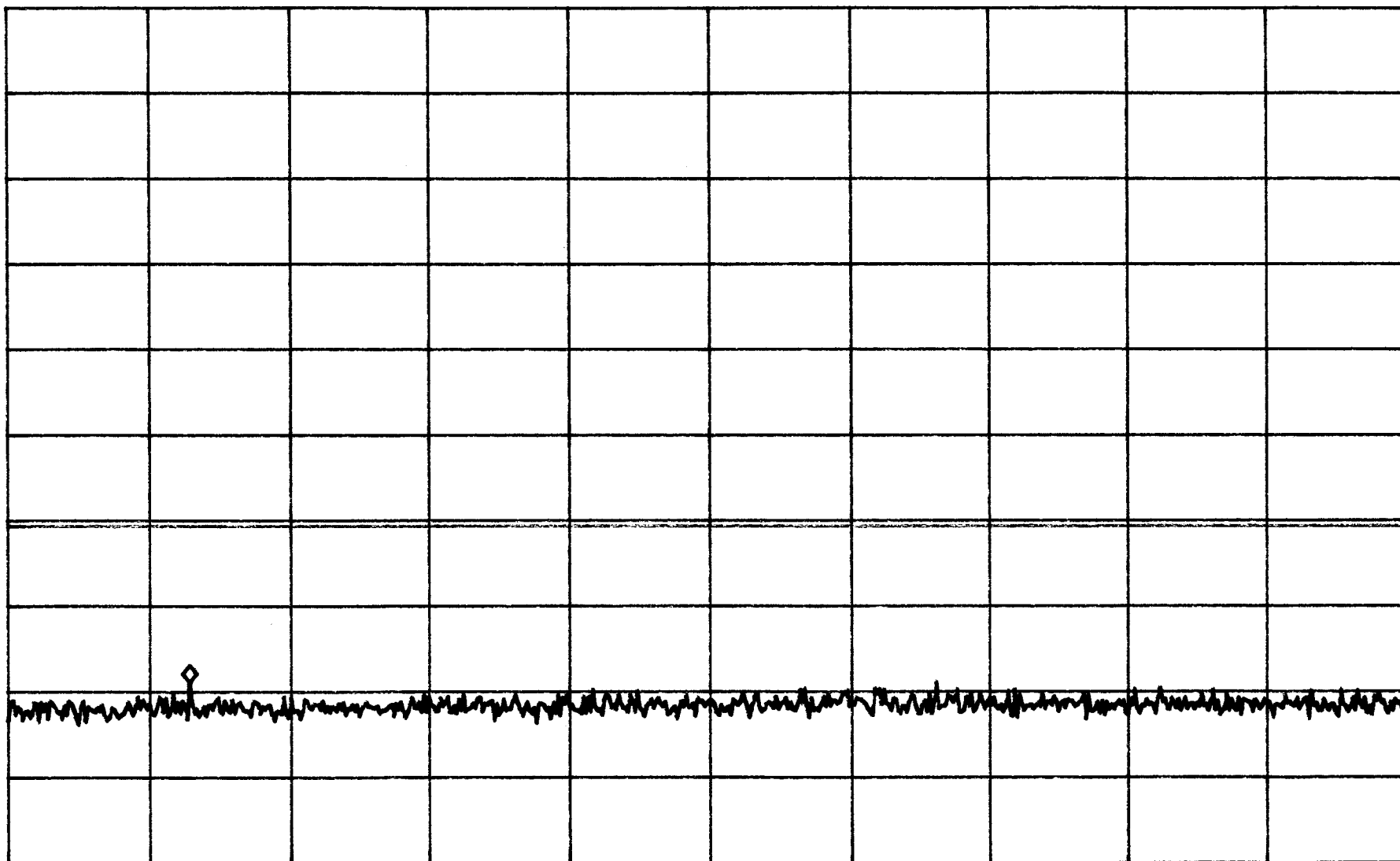
BAND AD

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -31.03dBm
154.5MHz

SDR



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

VBW 30kHz

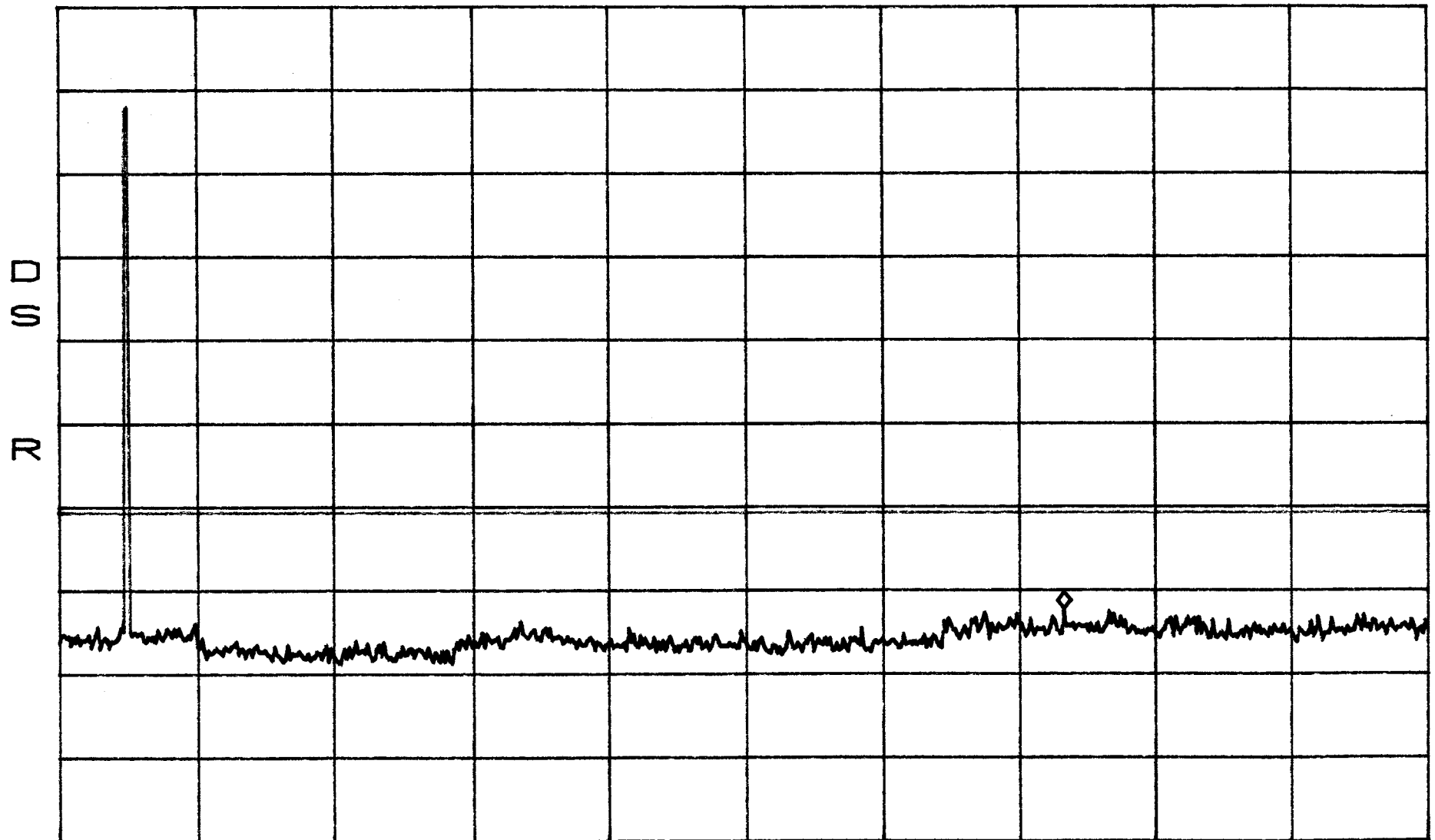
SWP 2.7sec

Intermodulation BAND A/D
Apert
CDMA

*ATTEN 20dB
RL 47.8dBm

10dB/

MKR -24.37dBm
14.93GHz



START 1.00GHz STOP 20.00GHz
*RBW 100kHz VBW 100kHz SWP 4.8sec

Intermodulation

BAND D,B,E

Close

FM

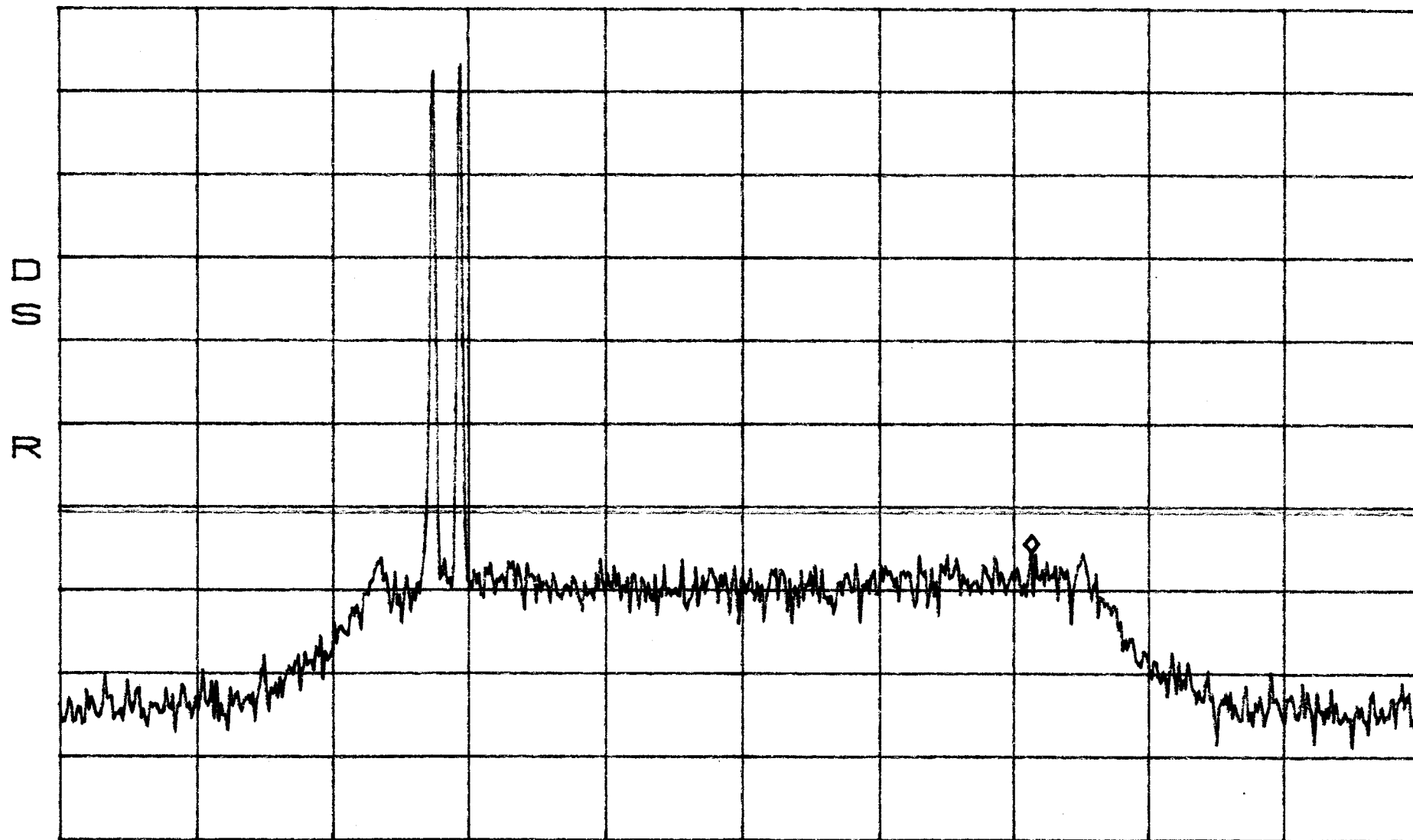
*ATTEN 20dB

MKR -17.53dBm

RL 47.8dBm

10dB/

1.96817GHz



CENTER 1.95750GHz

SPAN 50.00MHz

*RBW 30kHz

VBW 30kHz

SWP 140ms