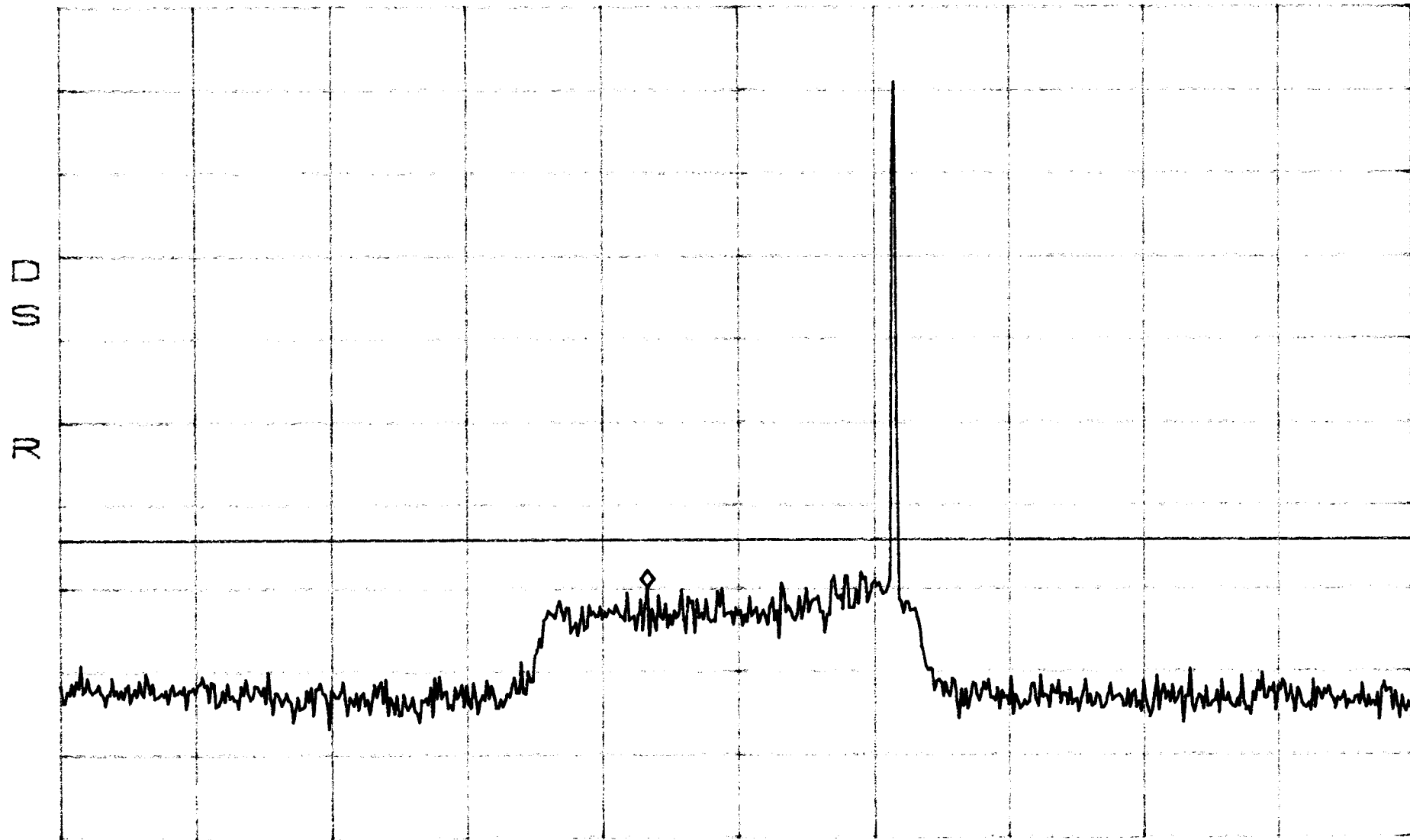


*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -18.53dBm
1.9708GHz



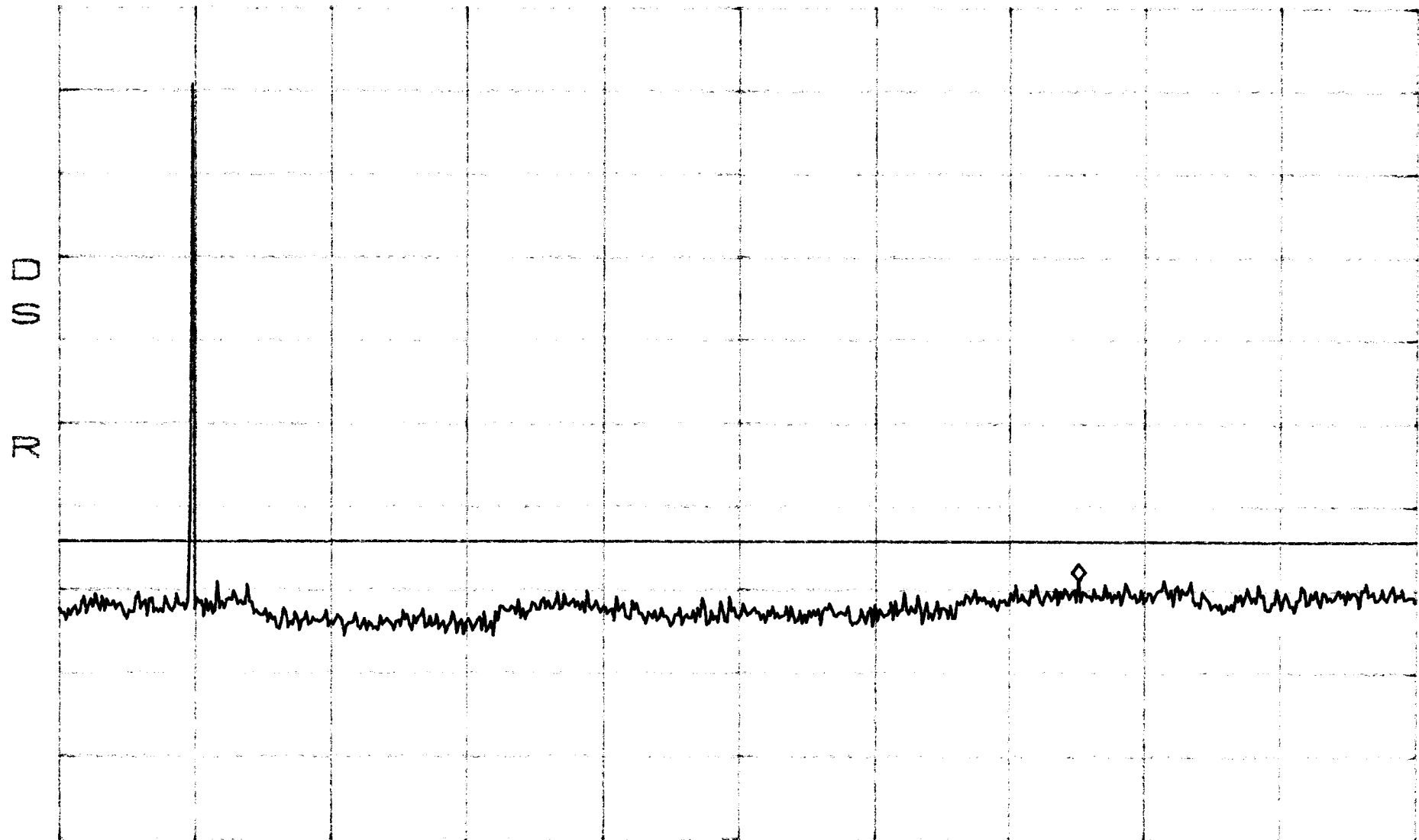
CENTER 1.9775GHz
*RBW 30kHz VBW 30kHz

SPAN 100.0MHz
SWP 280ms

Conducted Emissions Band E, F, C
High

*ATTEN 30dB
RL 51.3dBm

MKR -17.53dBm
15.04GHz



START 30MHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 560ms

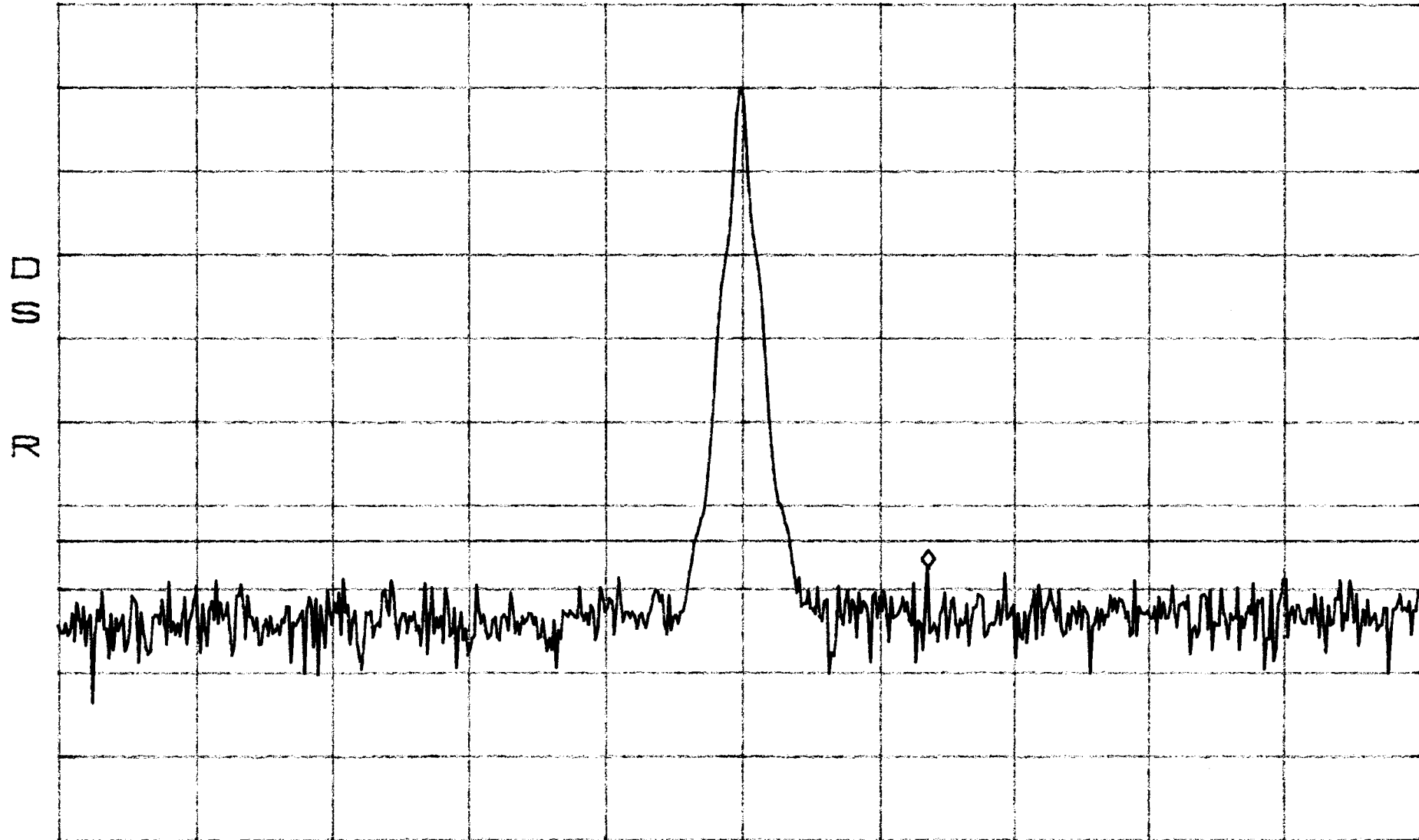
Conducted Emissions
FM

Band A,D

*ATTEN 30dB
RL 51.3dBm

10dB/

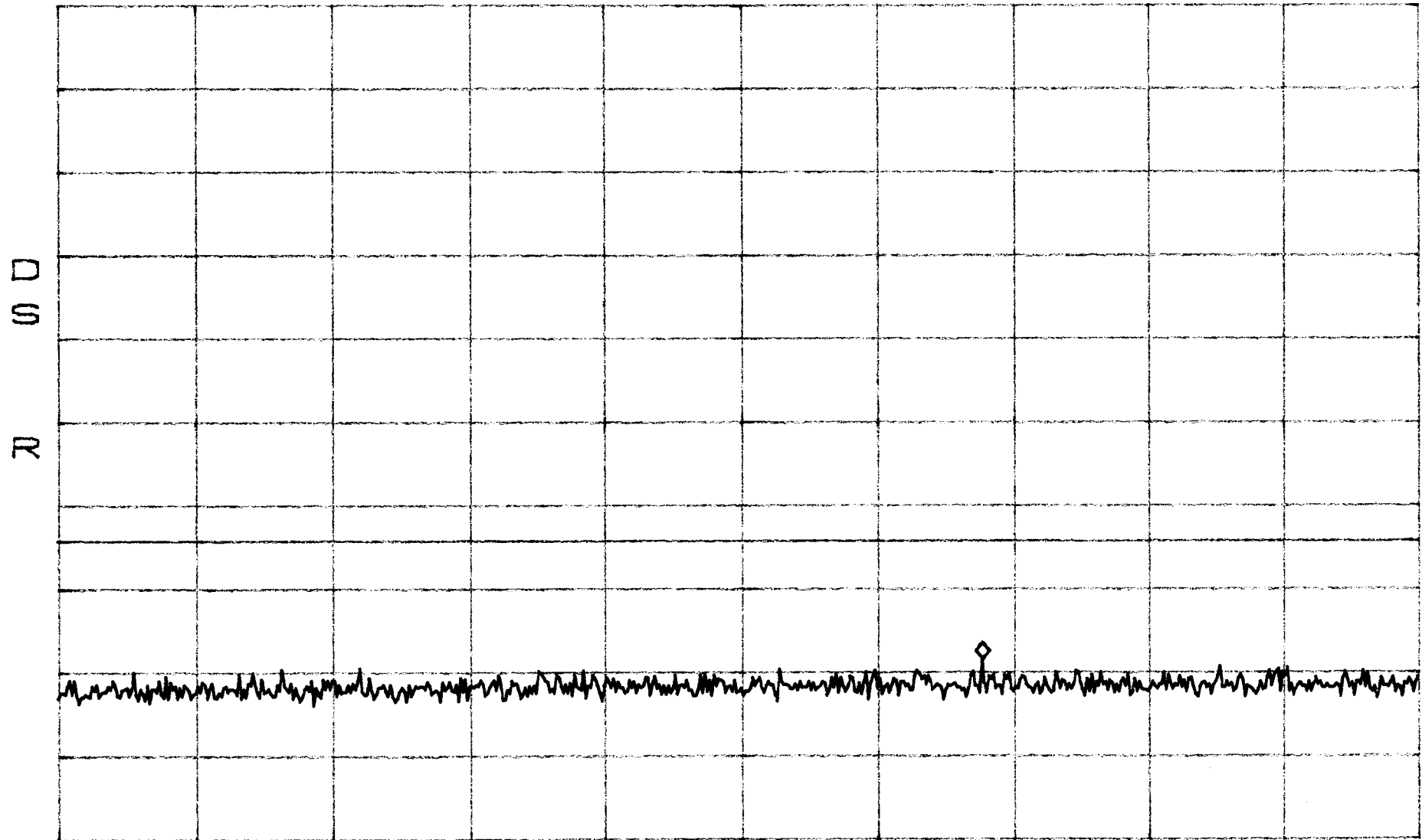
MKR -16.03dBm
1.940675GHz



CENTER 1.940000GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

*ATTEN 30dB
RL 51.3dBm

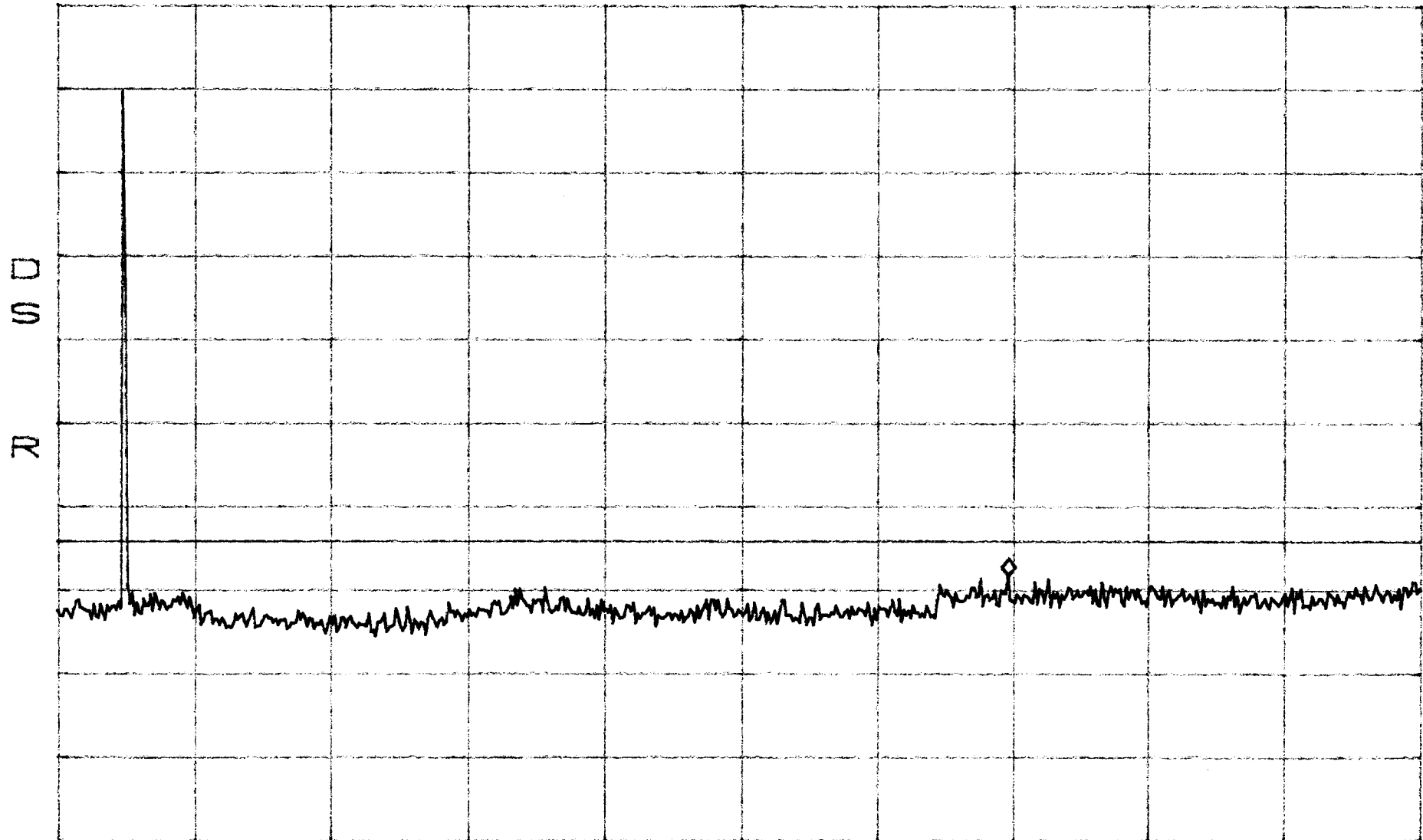
MKR -27.03dBm
686.4MHz



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

*ATTEN 30dB
RL 51.3dBm

MKR -16.87dBm
14.24GHz

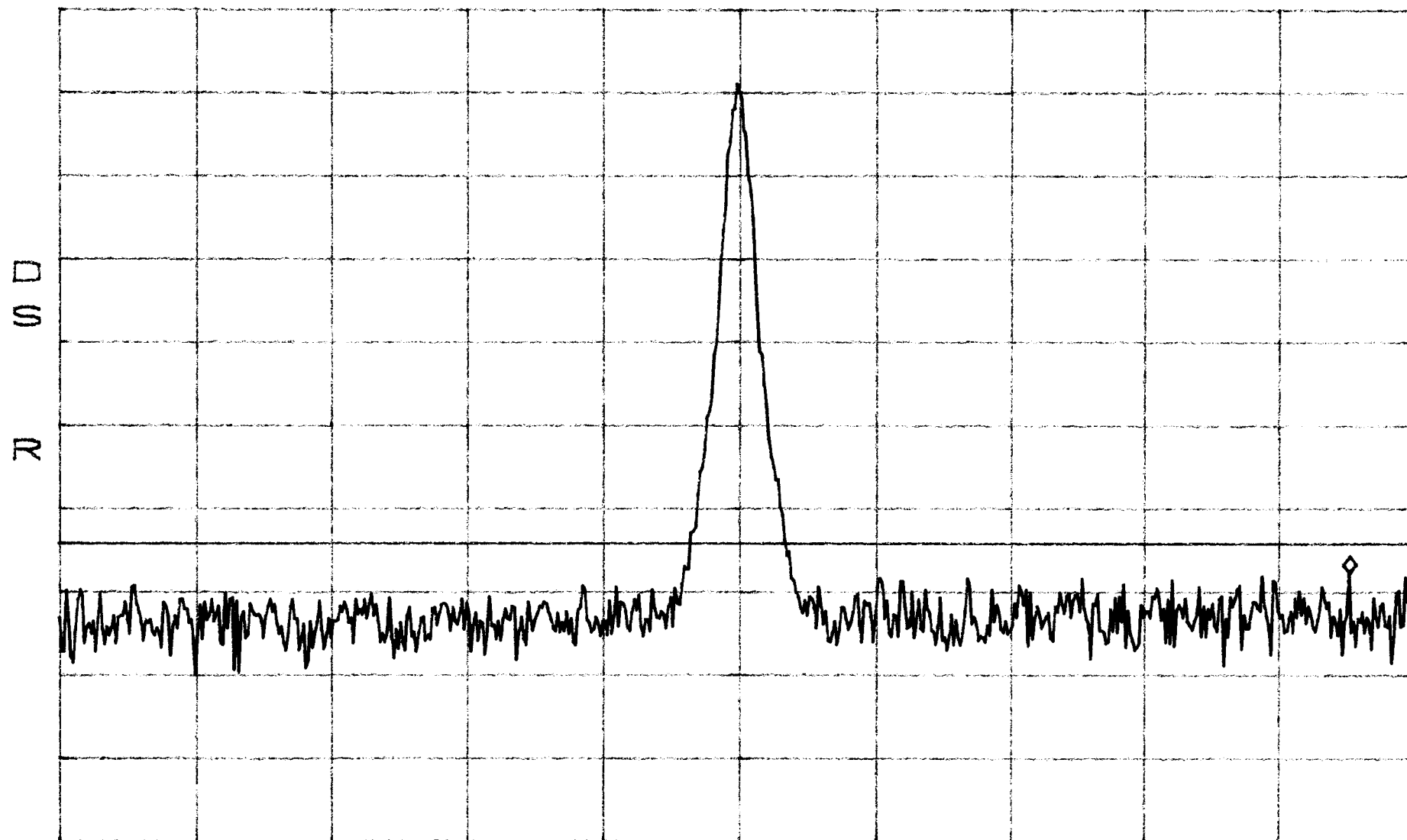


START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

*ATTEN 30dB
RL 51.3dBm

MKR -16.37dBm
1.942267GHz

10dB/



CENTER 1.940000GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

Conducted Emissions Band A,D
TDMA

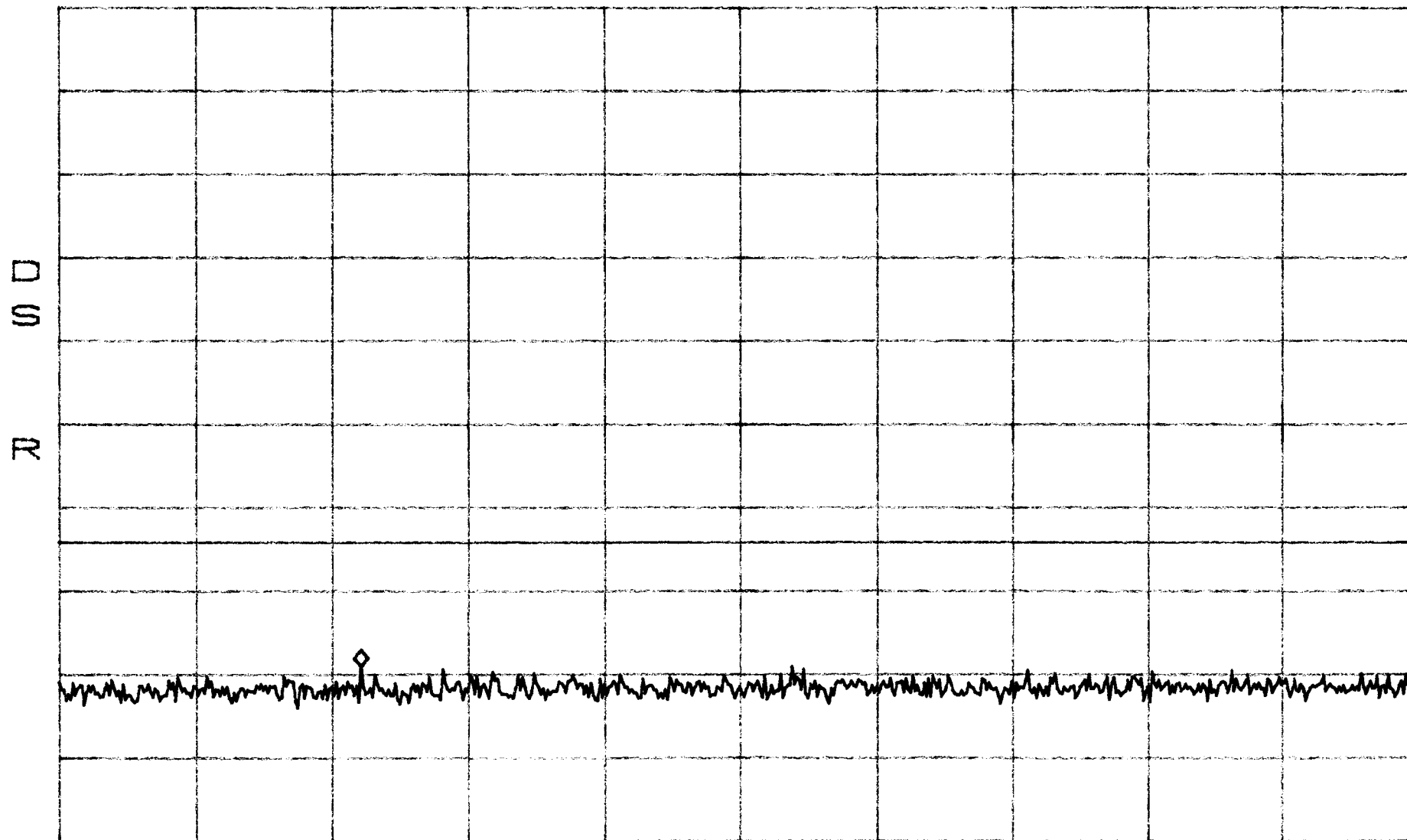
*ATTEN 30dB

MKR -27.70dBm

RL 51.3dBm

10dB/

245.0MHz



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

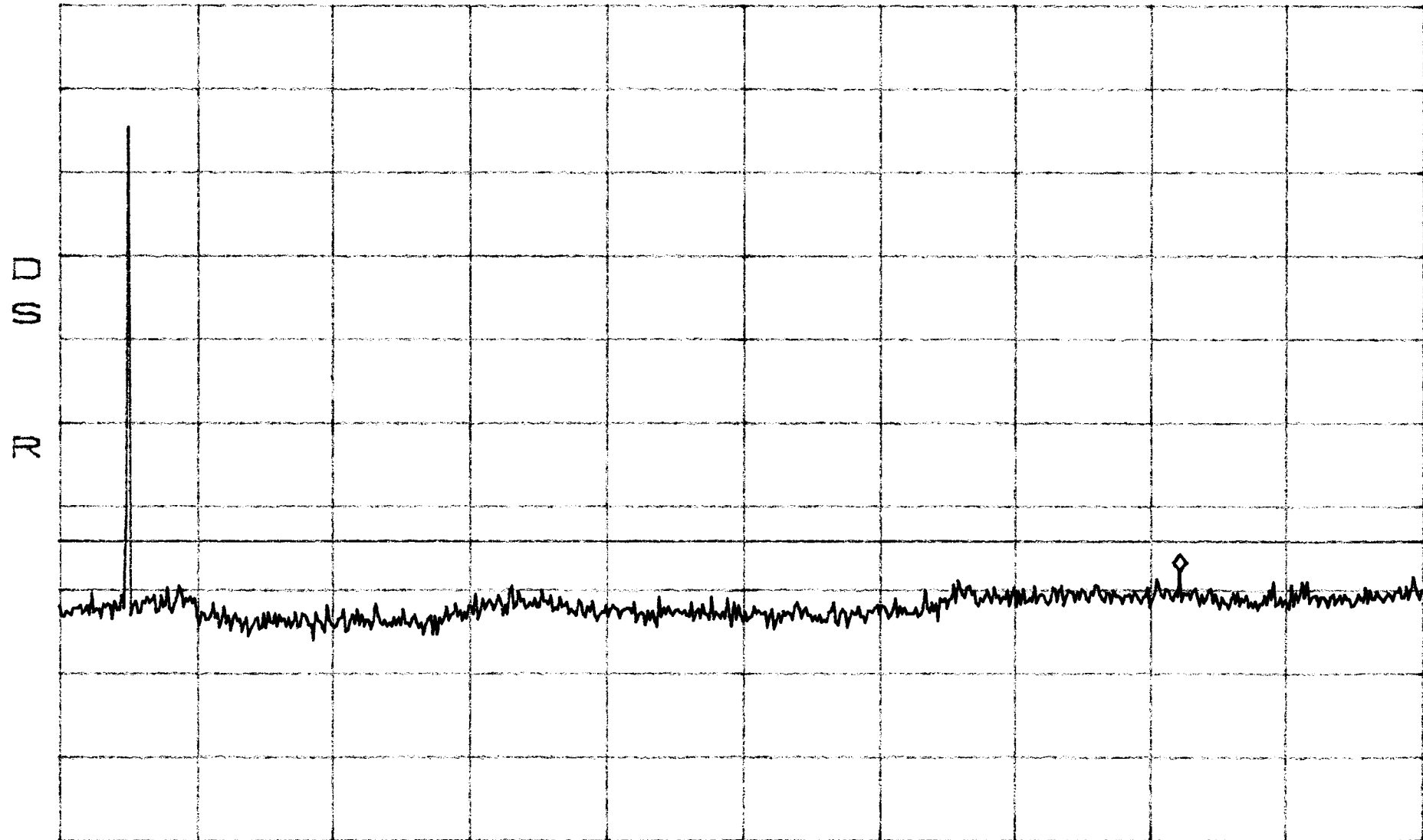
VBW 30kHz

SWP 2.7sec

Conducted Emissions Band A₁D
TDMA

*ATTEN 30dB
RL 51.3dBm

MKR -16.37dBm
16.61GHz



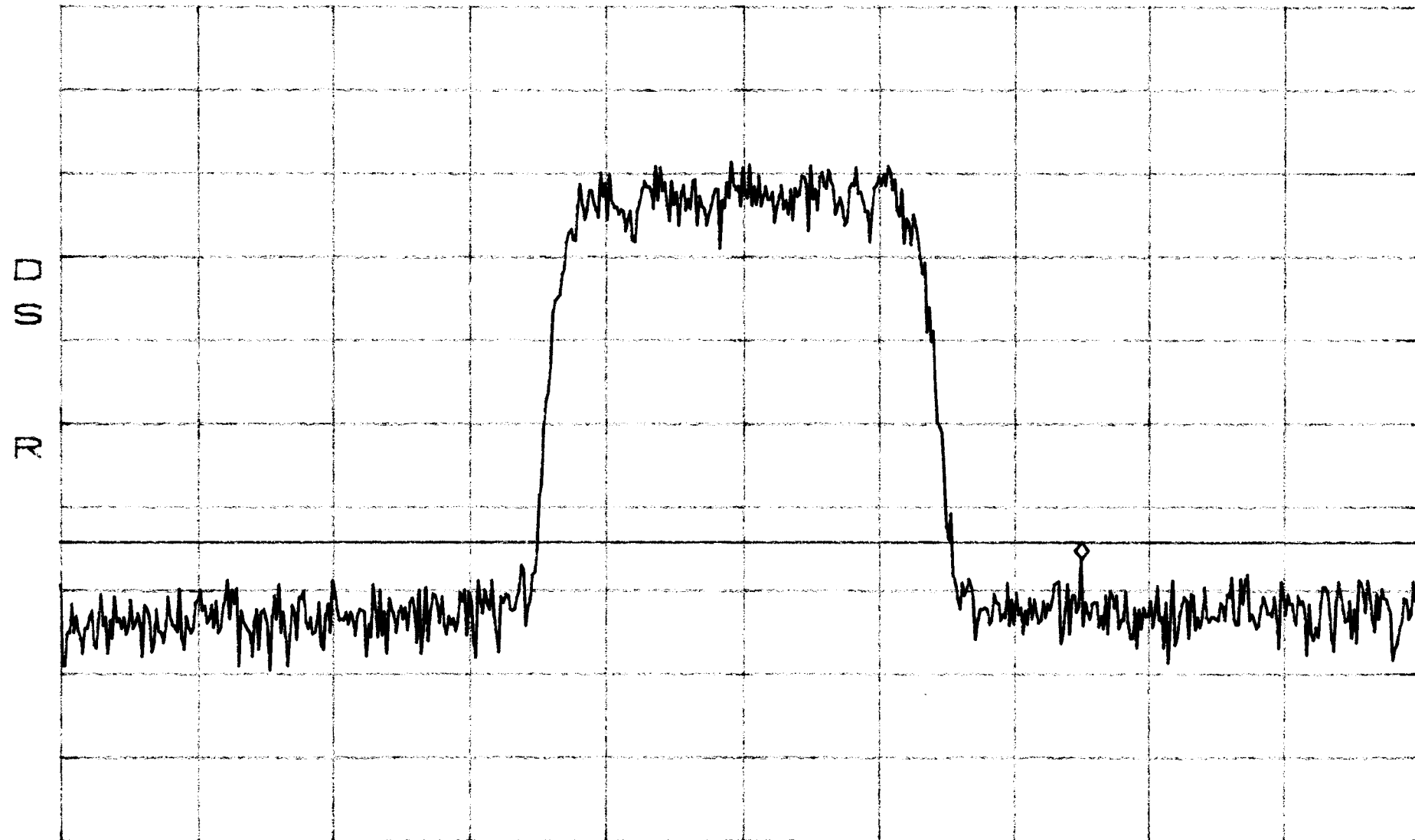
START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band A,D
CDMA

*ATTEN 30dB
RL 51.3dBm

MKR -14.87dBm
1.941250GHz

10dB/



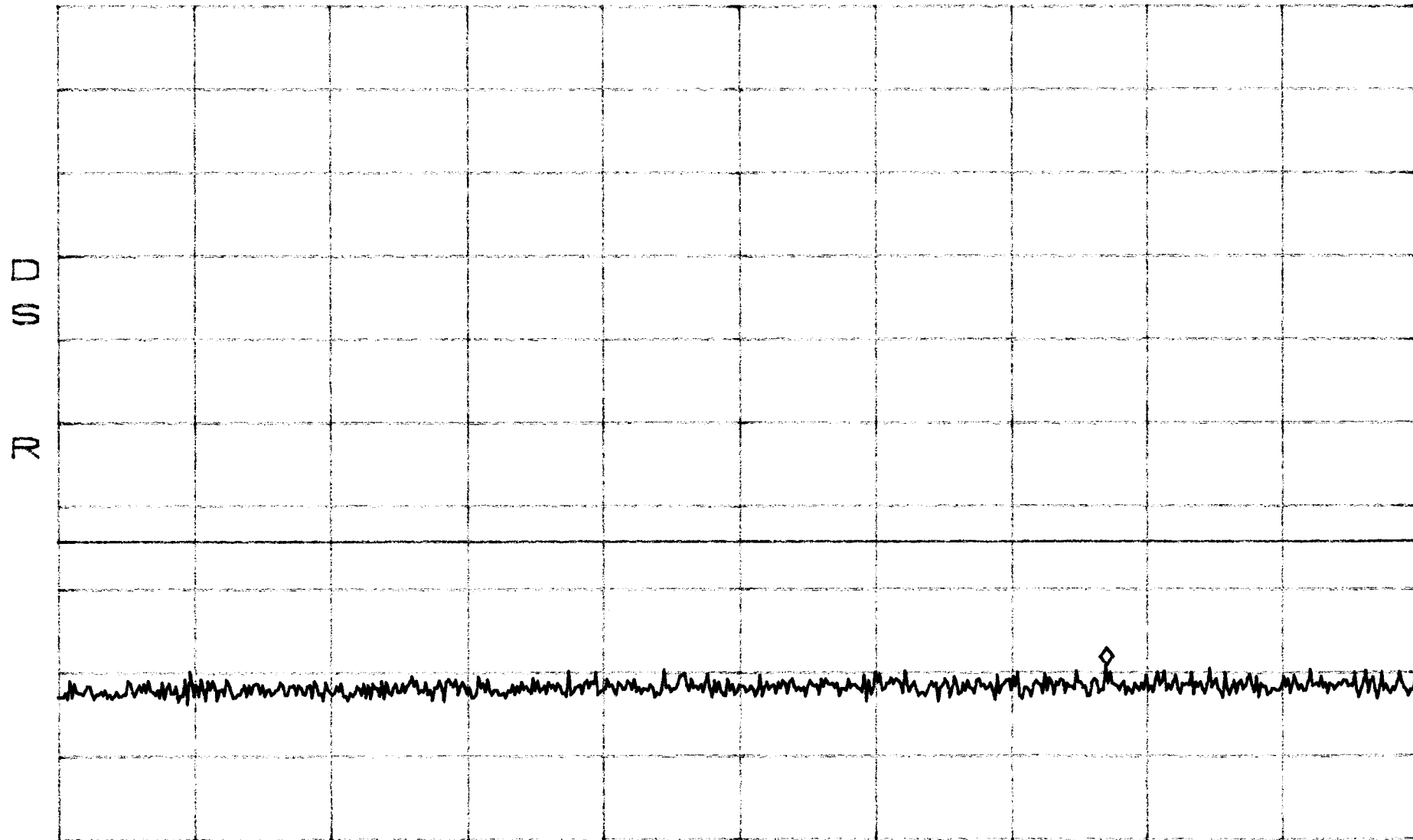
CENTER 1.940000GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

Conducted Emissions Band A,D
CDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -27.70dBm
776.9MHz



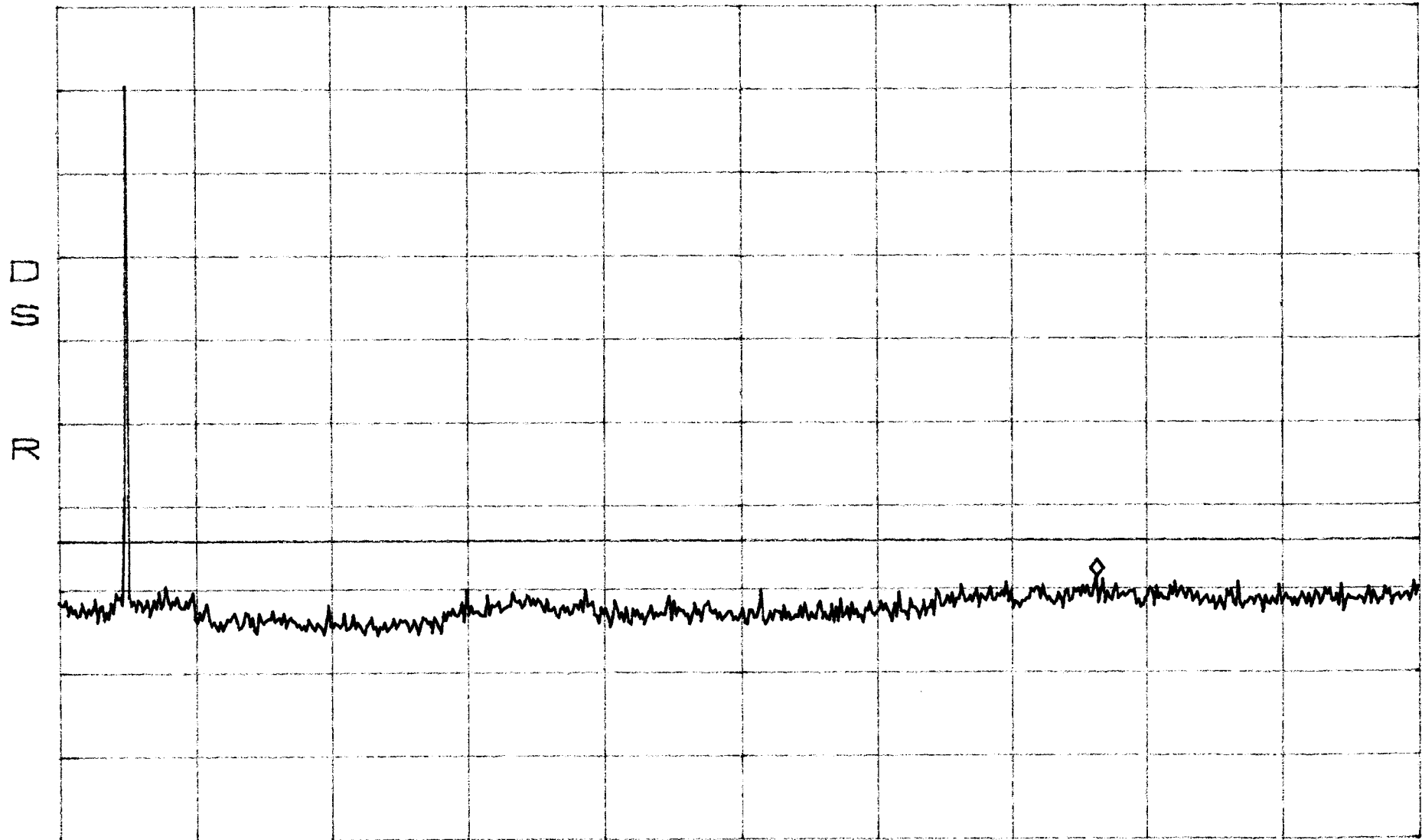
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band A,D
CDMA

*ATTEN 30dB
RL 51.3dBm

MKR -17.20dBm
15.50GHz

10dB/



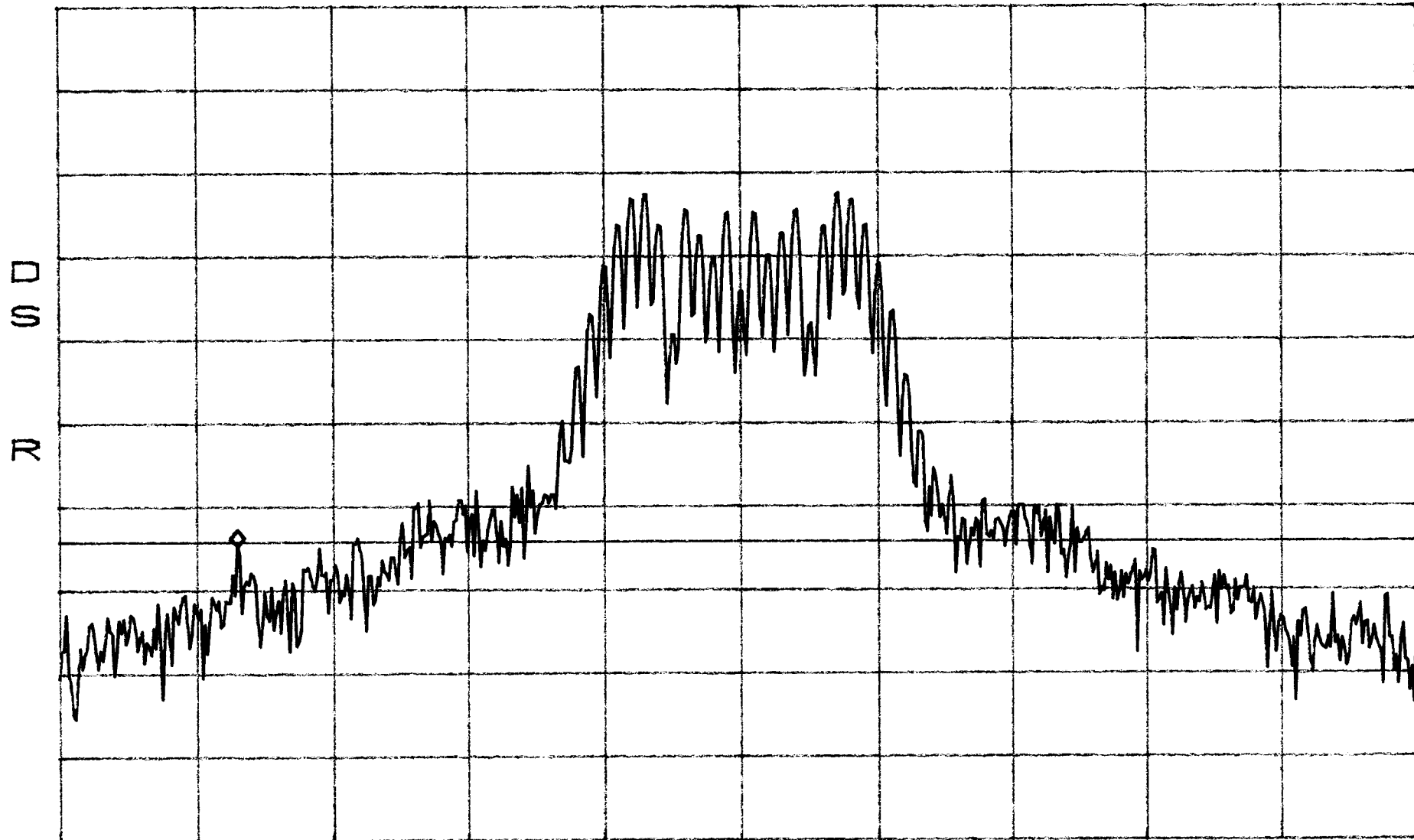
START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band A,D
Band Edge
FM

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -13.37dBm
1.9301630GHz



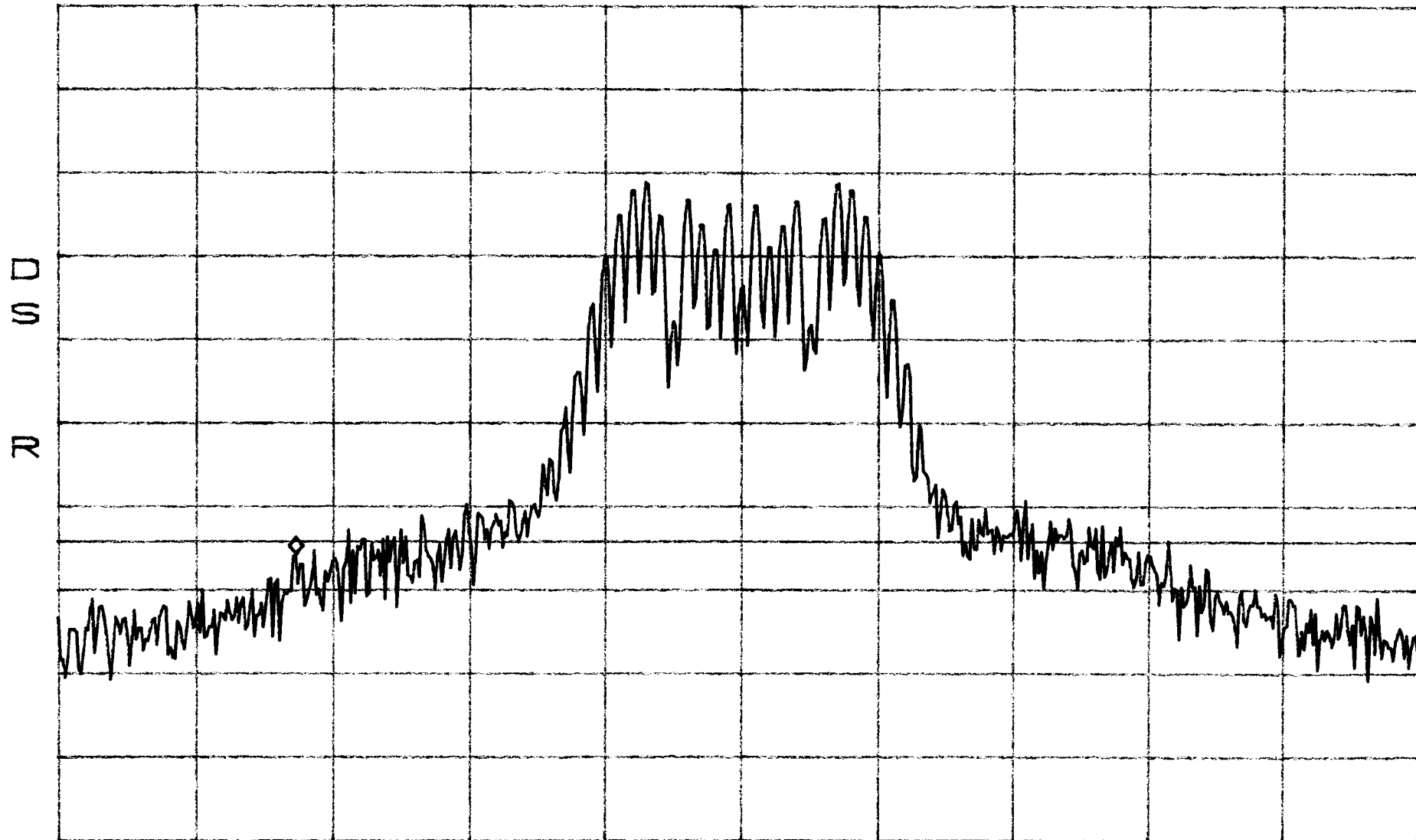
CENTER 1.9302000GHz SPAN 100.0kHz
*RBW 300Hz VBW 300Hz SWP 2.8sec

Conducted Emissions Band A,D
Band Edge
FM

*ATTEN 30dB
RL 51.3dBm

MKR -14.37dBm
1.9497673GHz

10dB/



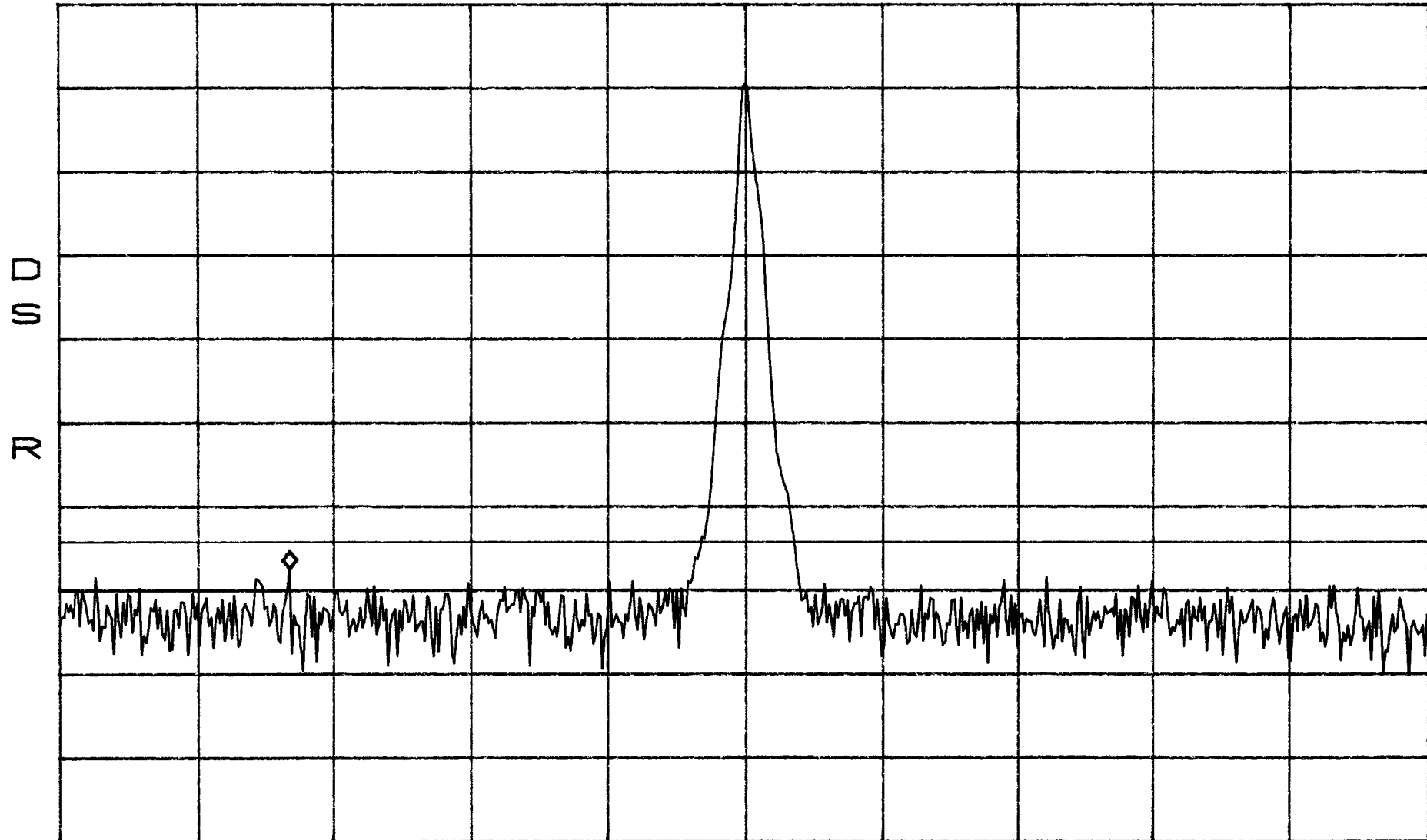
CENTER 1.9498000GHz
*RBW 300Hz VBW 300Hz

SPAN 100.0kHz
SWP 2.8sec

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -16.03dBm
1.955842GHz

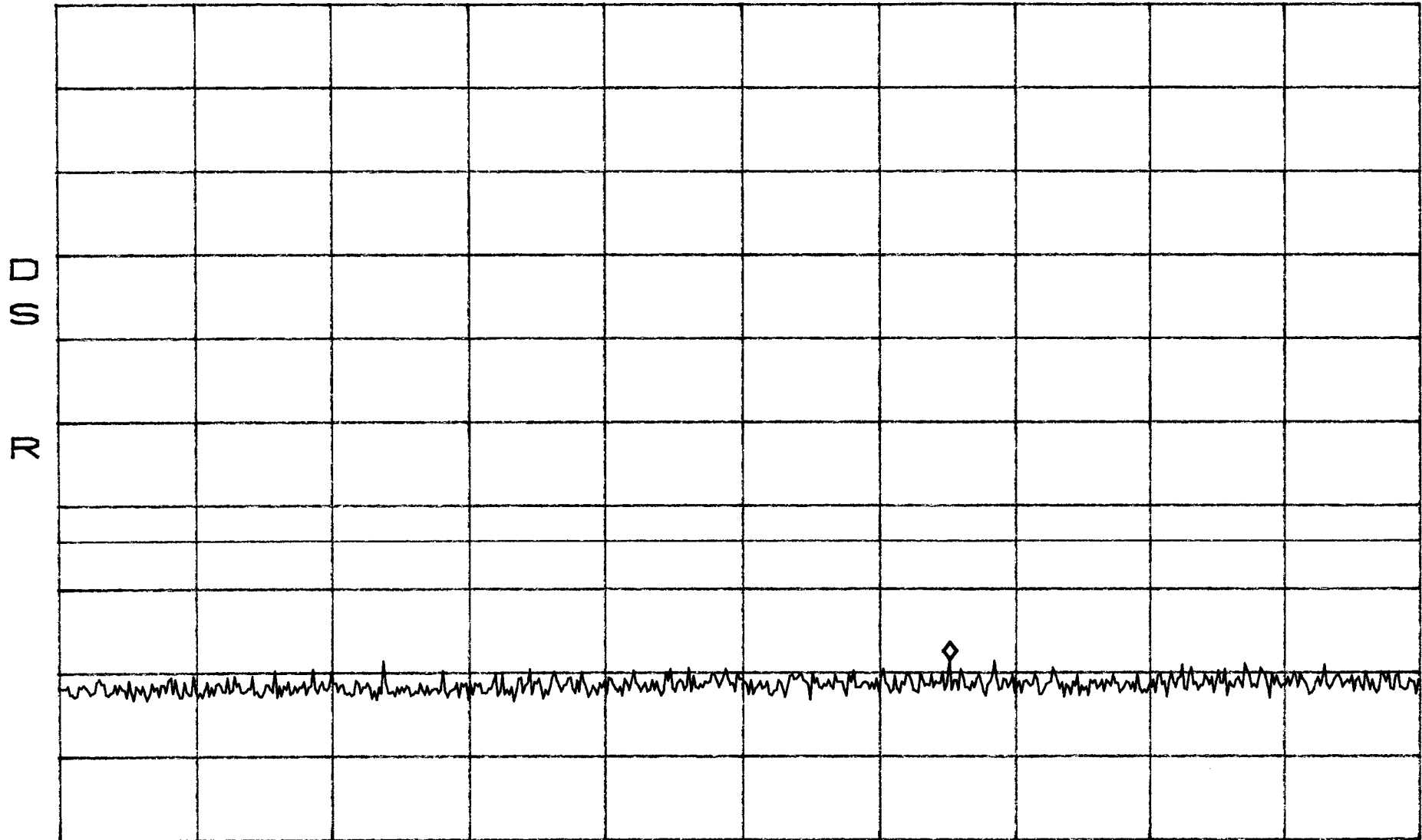


CENTER 1.957500GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -27.03dBm
662.1MHz



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

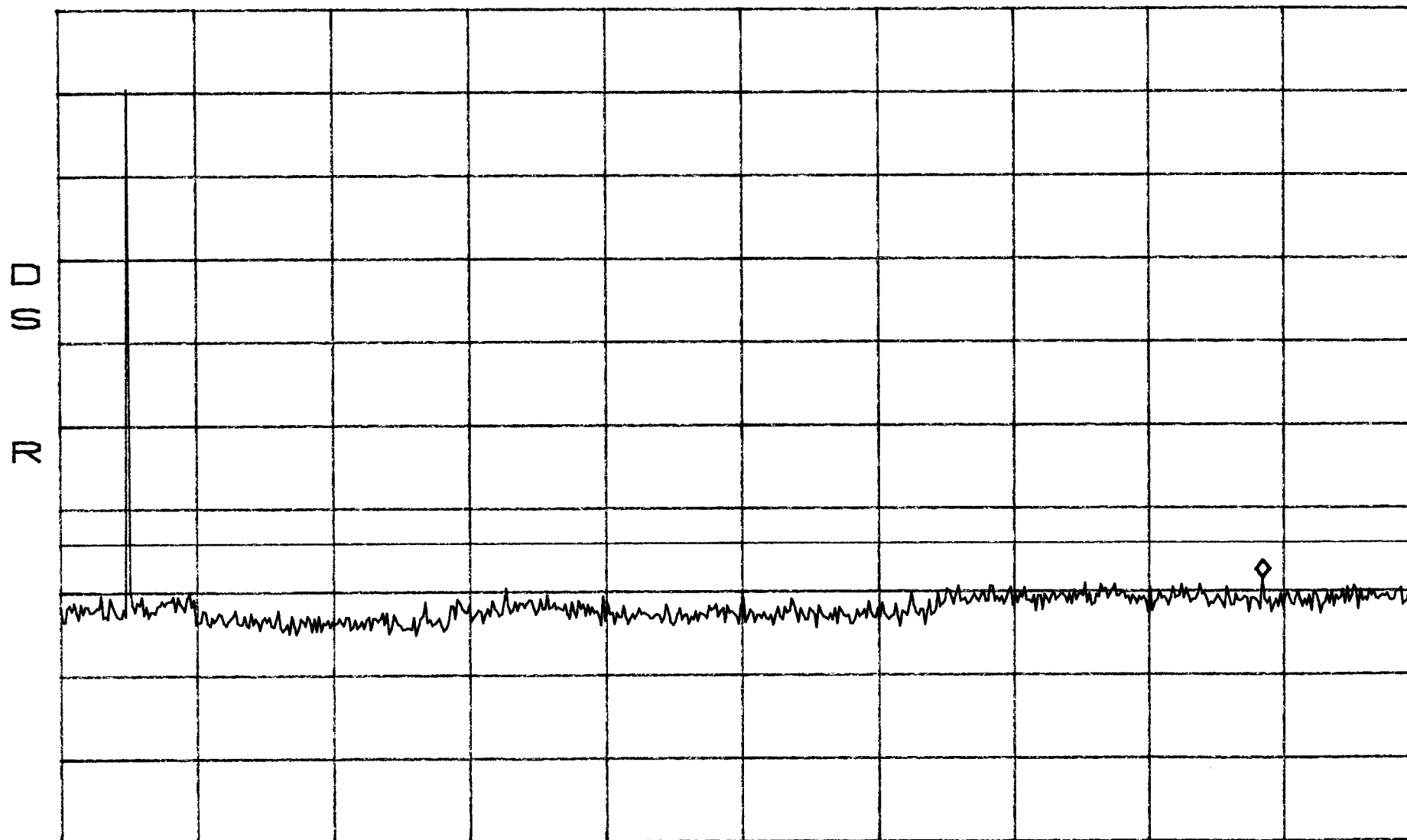
*ATTEN 30dB

MKR -17.03dBm

RL 51.3dBm

10dB/

17.82GHz



START 1.00GHz

STOP 20.00GHz

*RBW 300kHz

VBW 300kHz

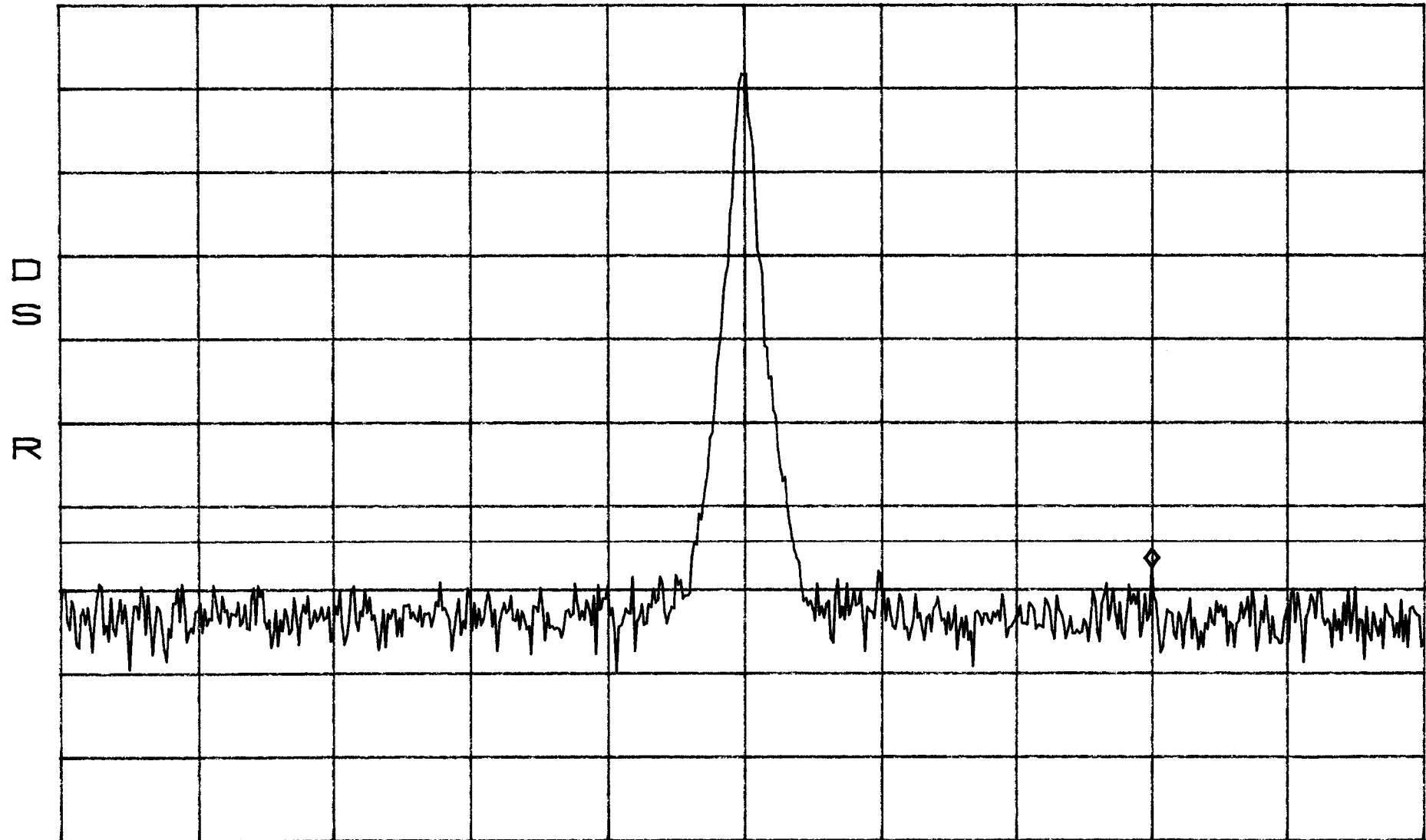
SWP 530ms

Conducted Emissions Band D,B,E
TDMA

*ATTEN 30dB
RL 51.3dBm

MKR -15.87dBm
1.959000GHz

10dB/



CENTER 1.957500GHz
*RBW 30kHz VBW 30kHz

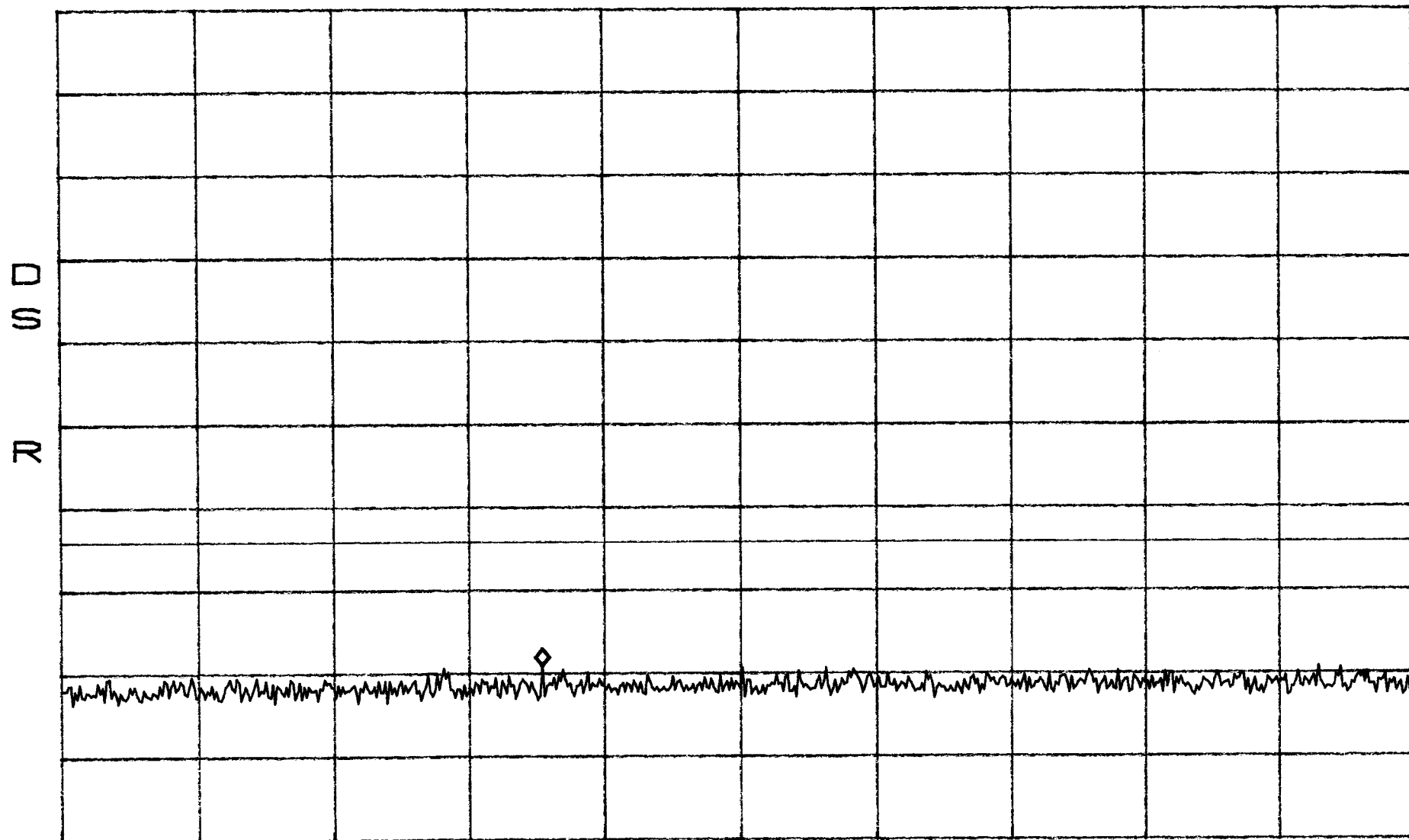
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band D,B,E
TDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -27.70dBm
374.4MHz



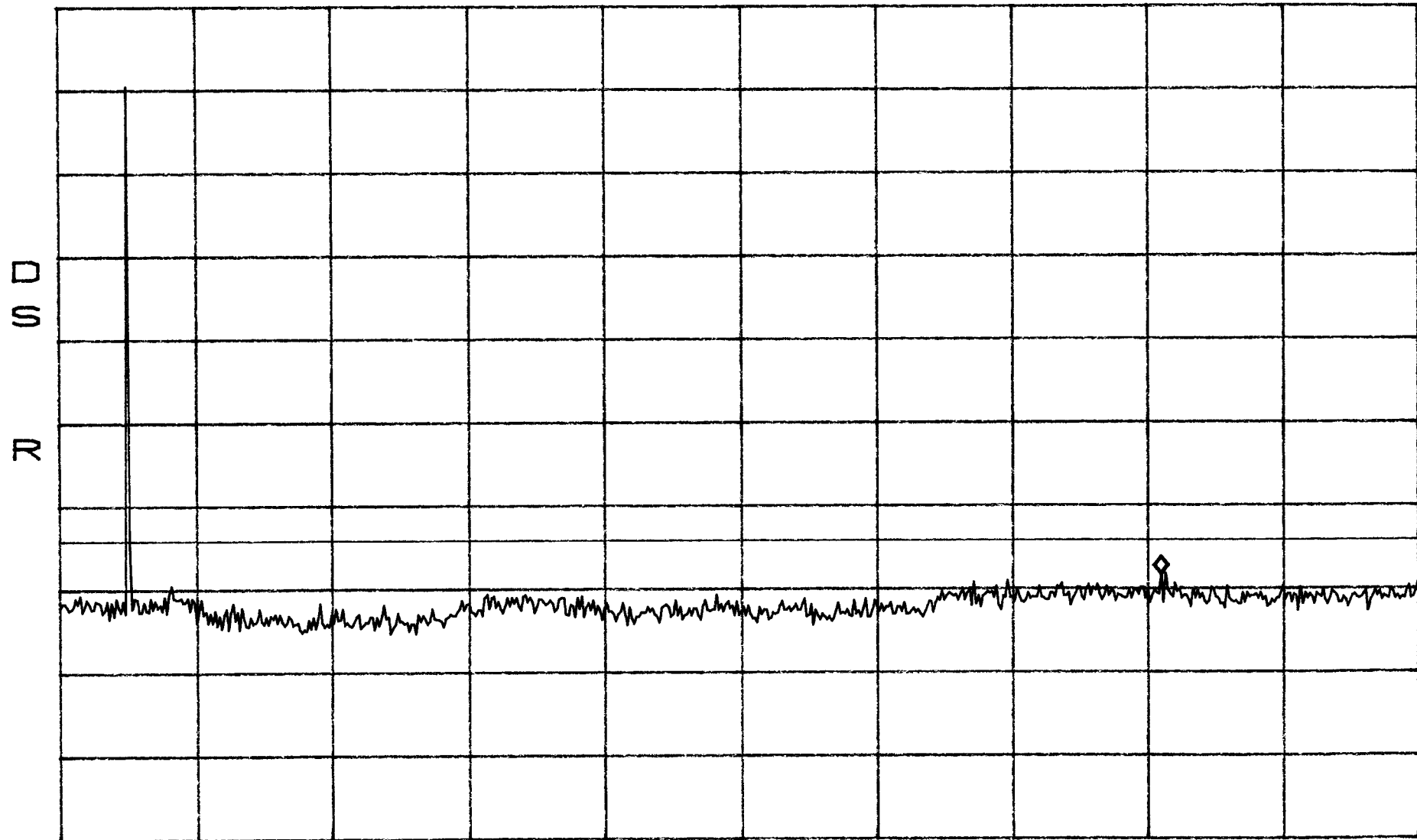
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band D,B,E
TDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -16.87dBm
16.39GHz



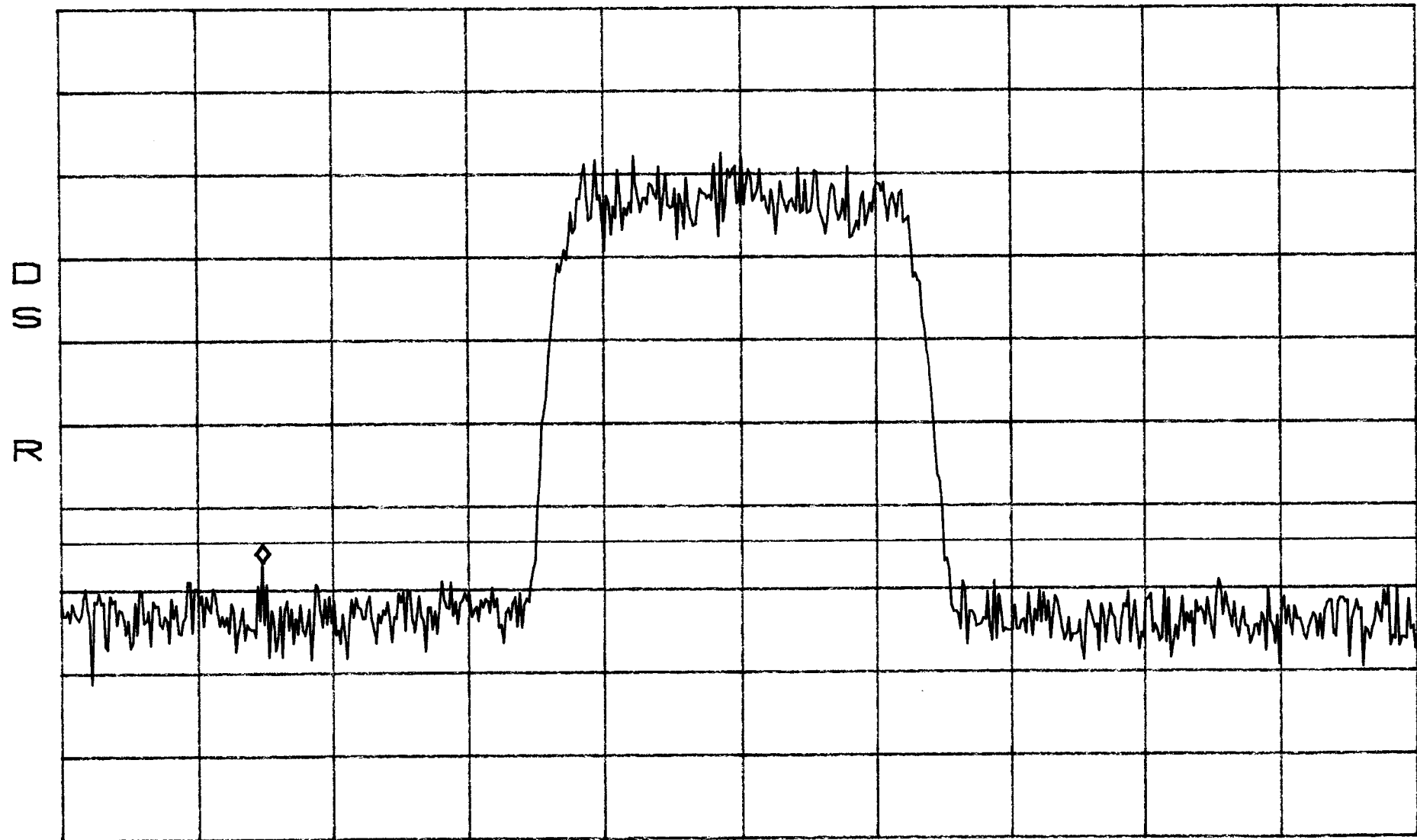
START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band D,B,E
CDMA

*ATTEN 30dB
RL 51.3dBm

MKR -15.20dBm
1.955742GHz

10dB/



CENTER 1.957500GHz
*RBW 30kHz VBW 30kHz

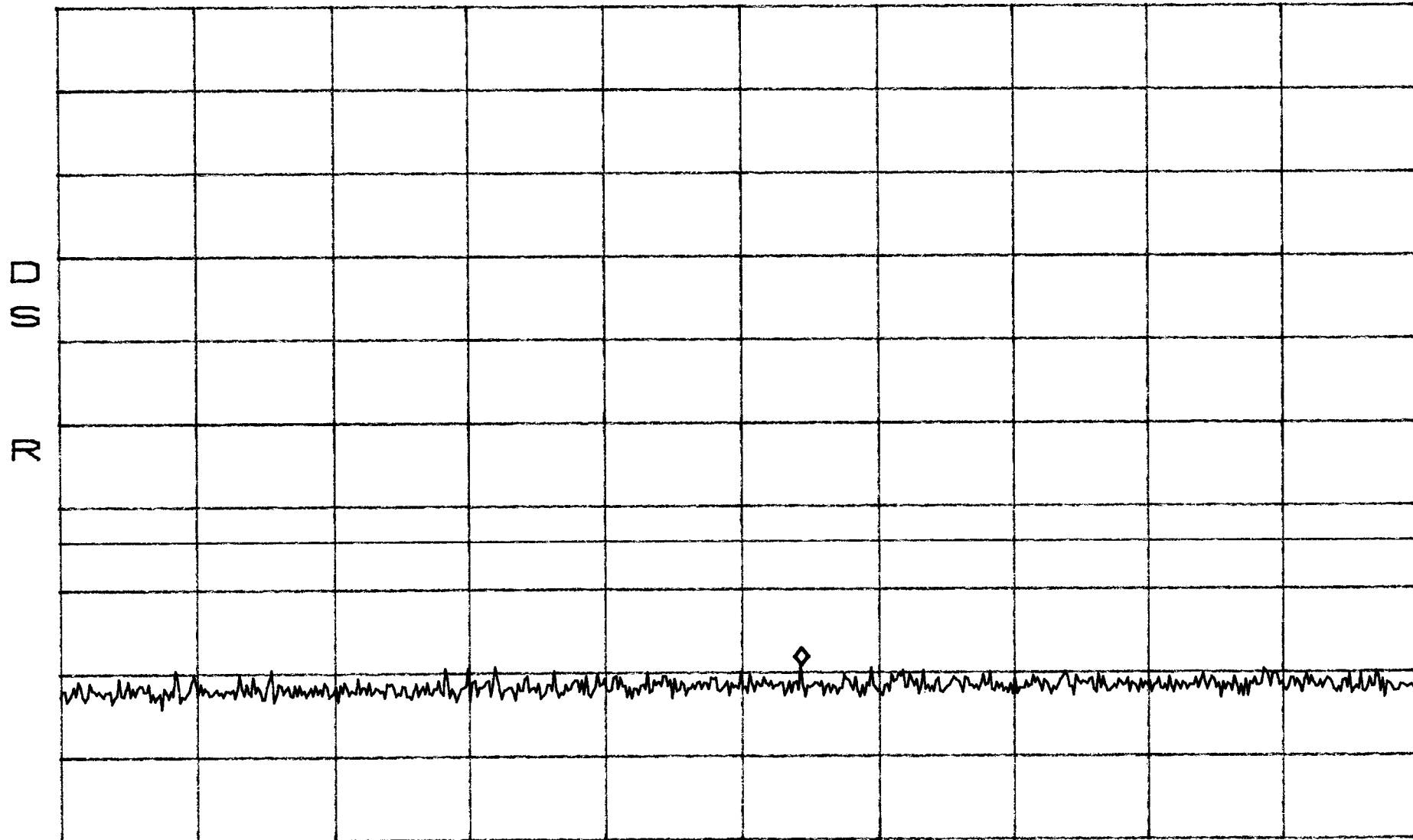
SPAN 5.000MHz
SWP 50ms

Conducted Emissions Band D,B,E
CDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -27.70dBm
557.0MHz



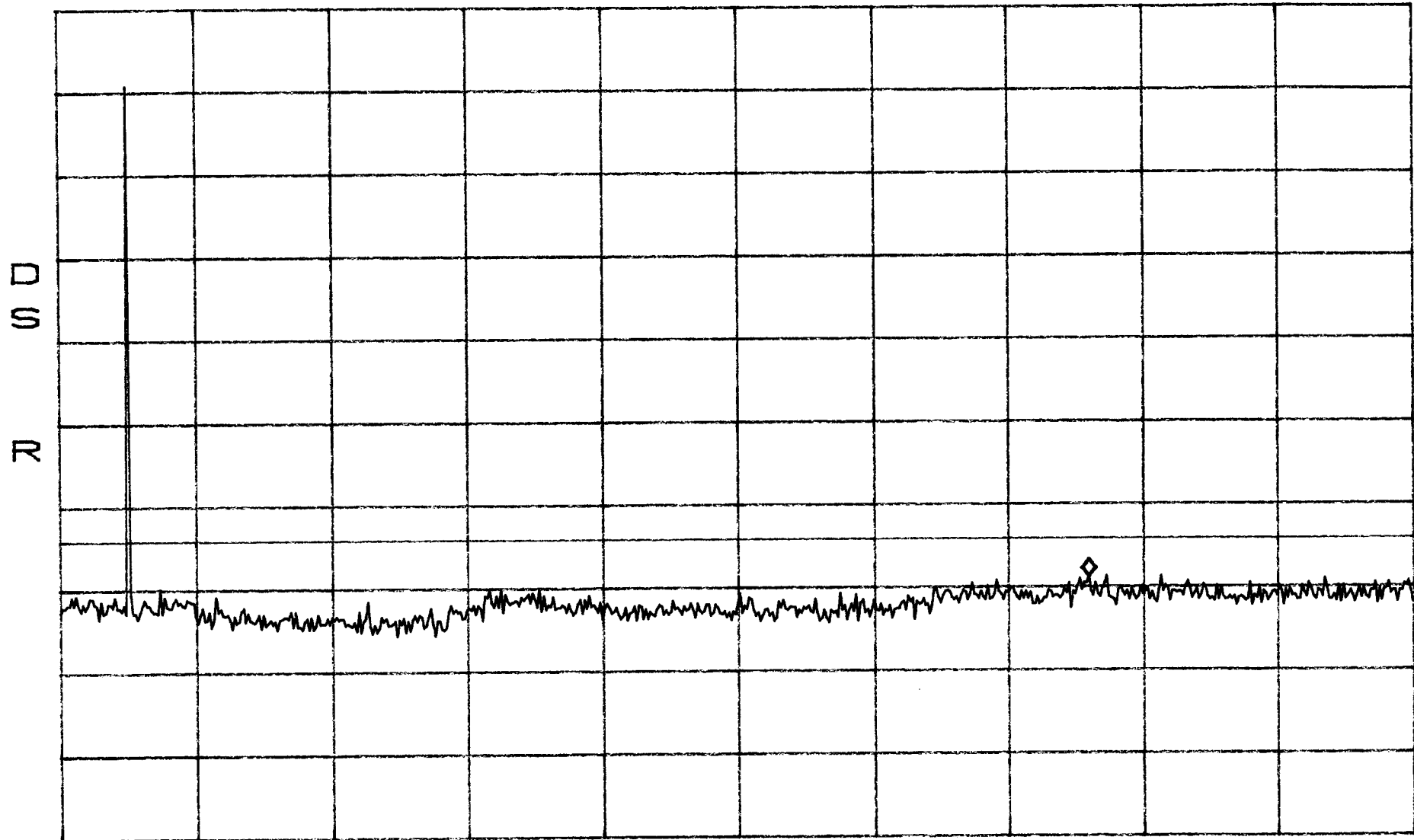
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band D, B, E
CDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -17.37dBm
15.44GHz



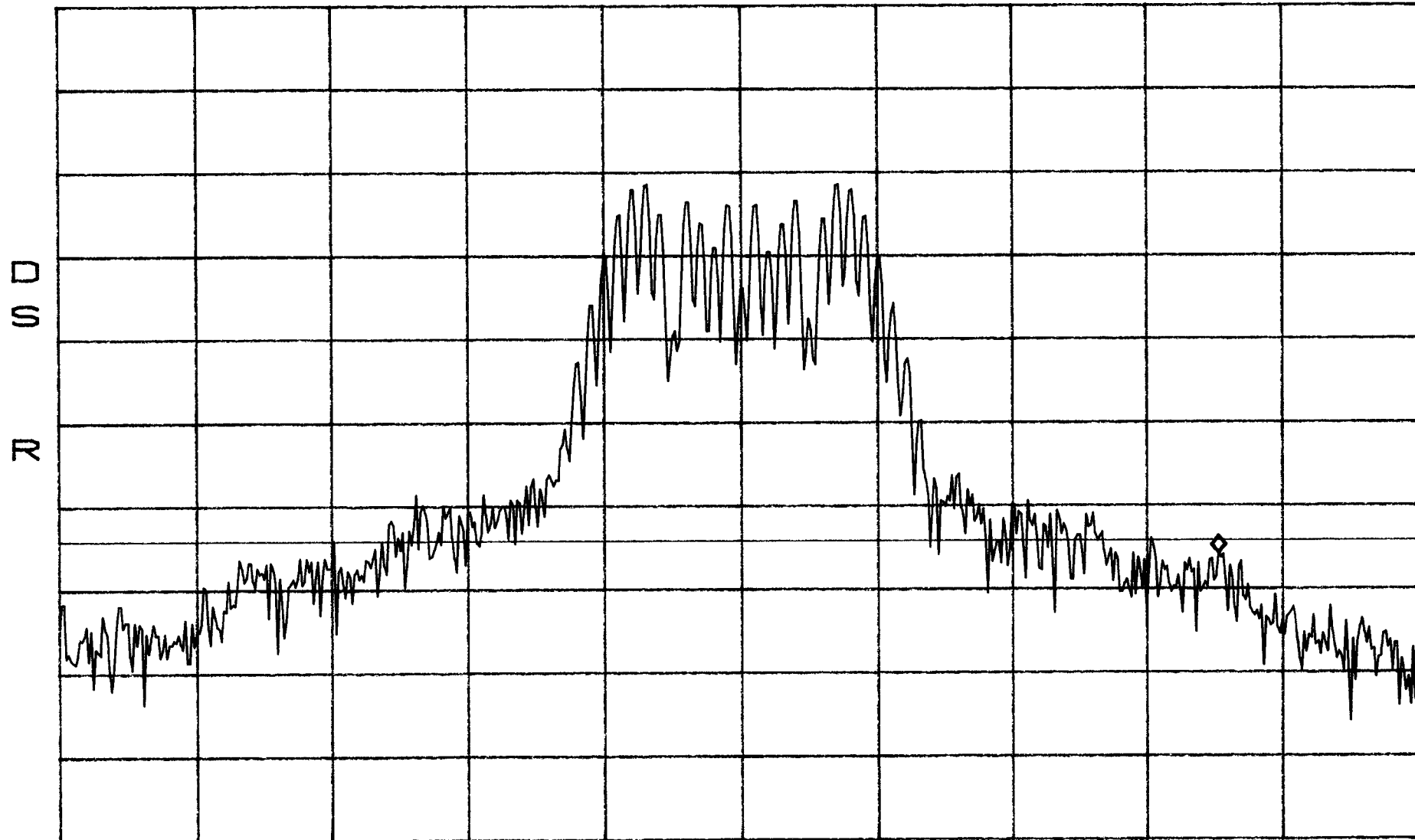
START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band D,B,E
Band Edge
FM

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -14.37dBm
1.9452353GHz



CENTER 1.9452000GHz
*RBW 300Hz VBW 300Hz

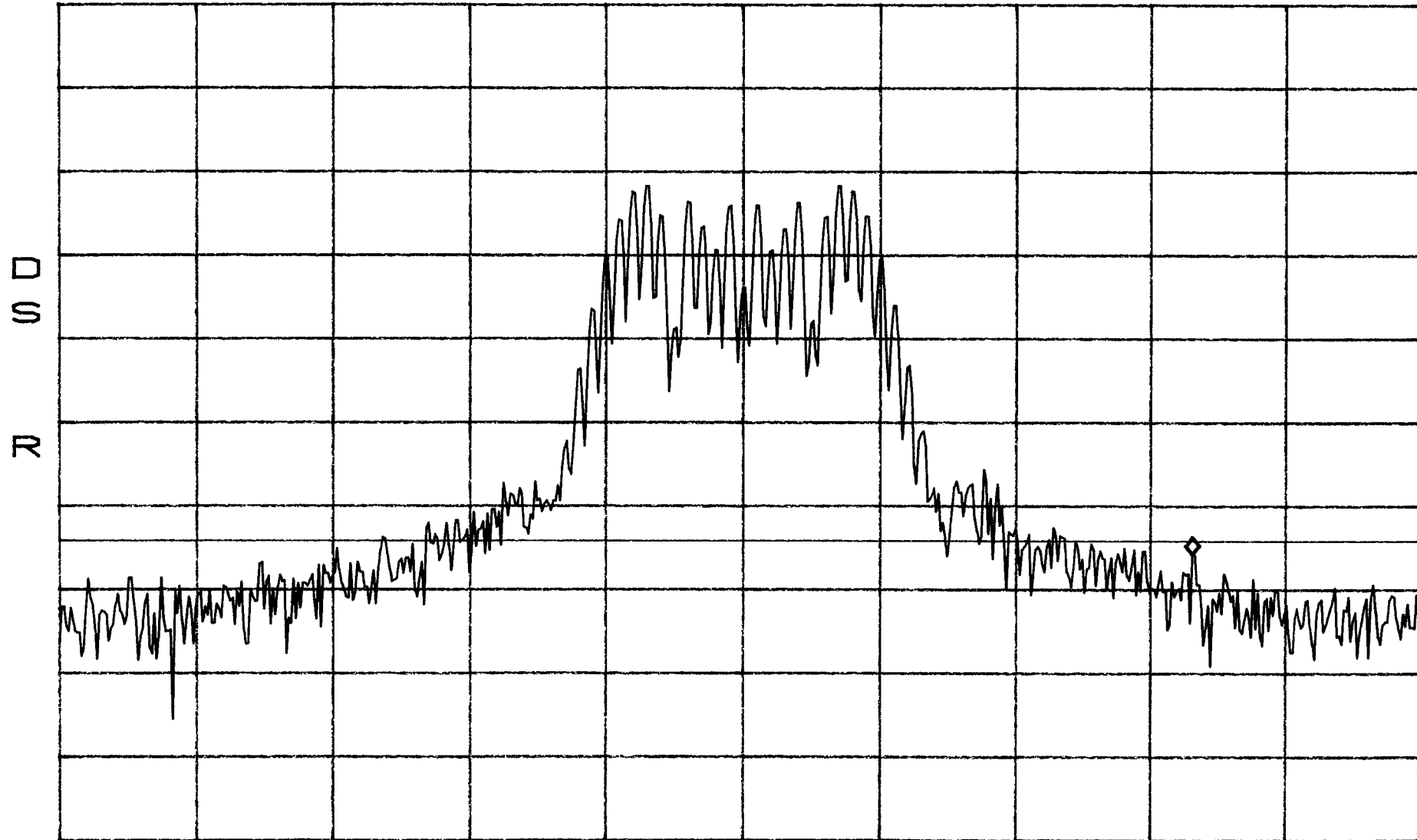
SPAN 100.0kHz
SWP 2.8sec

Conducted Emissions Band D,B,E
Band Edge
FM

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -14.37dBm
1.9698332GHz

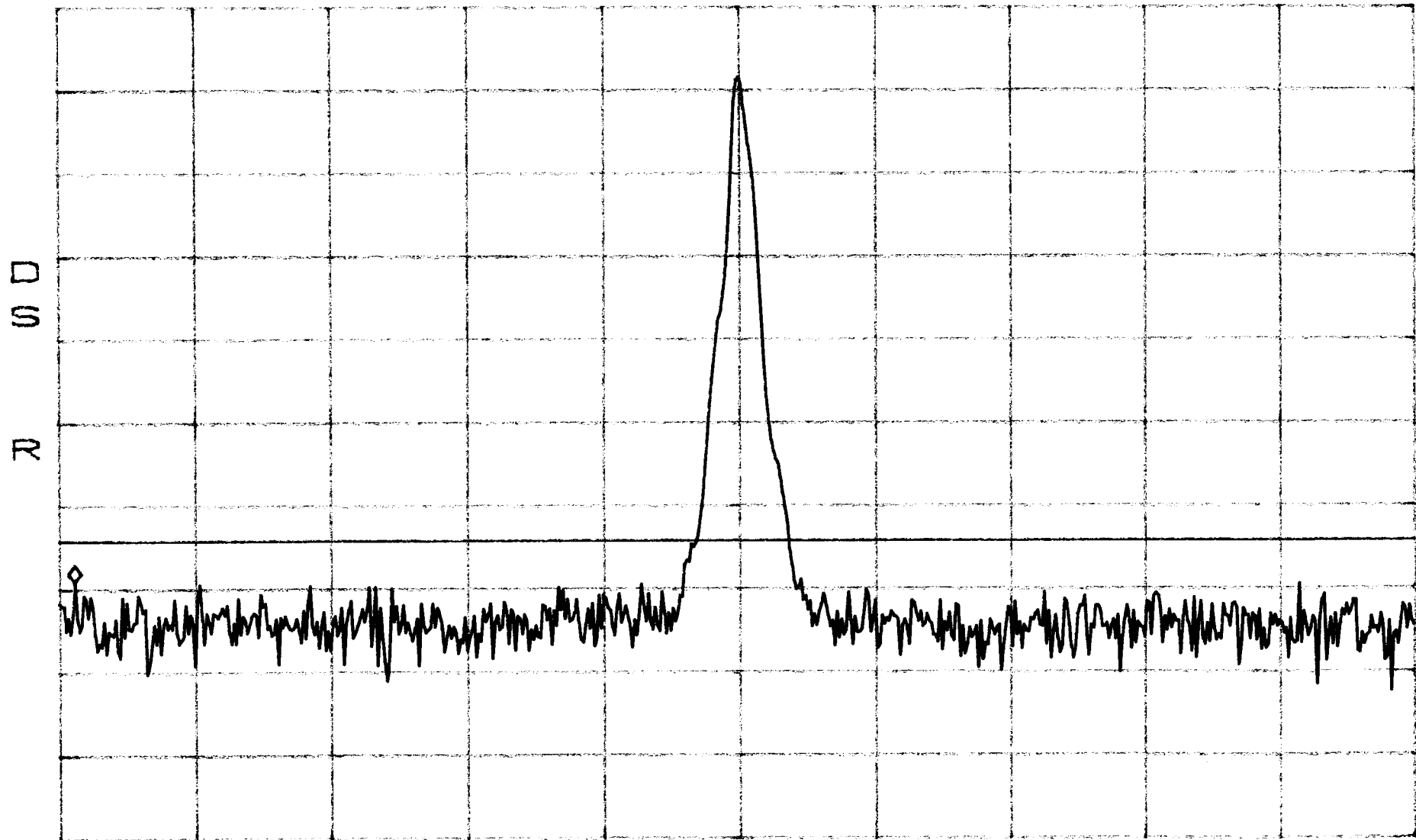


CENTER 1.9698000GHz SPAN 100.0kHz
*RBW 300Hz VBW 300Hz SWP 2.8sec

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -17.70dBm
1.96250096GHz

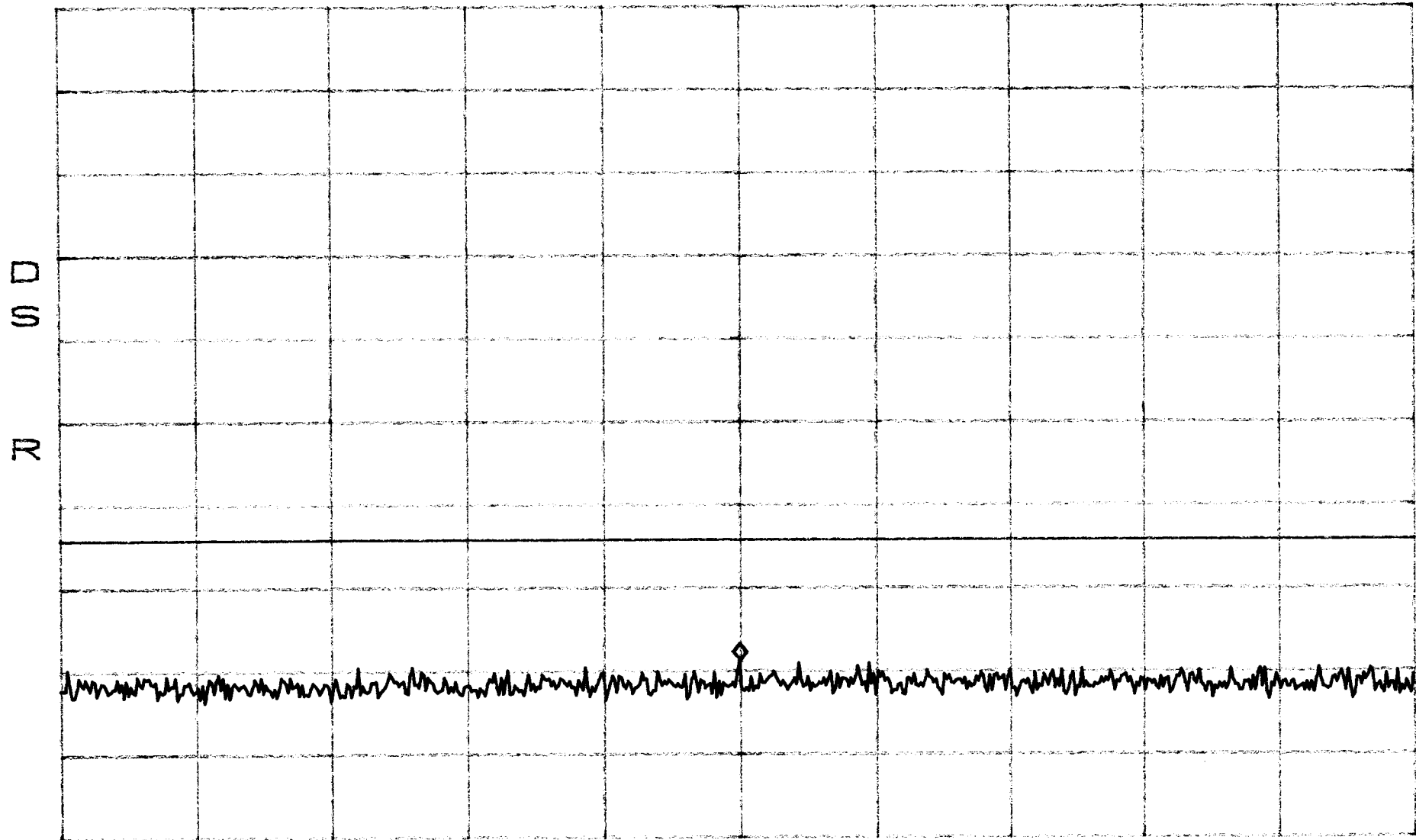


CENTER 1.96250096GHz
*RBW 30kHz VBW 30kHz

SPAN 5.000MHz
SWP 50ms

*ATTEN 30dB
RL 51.3dBm

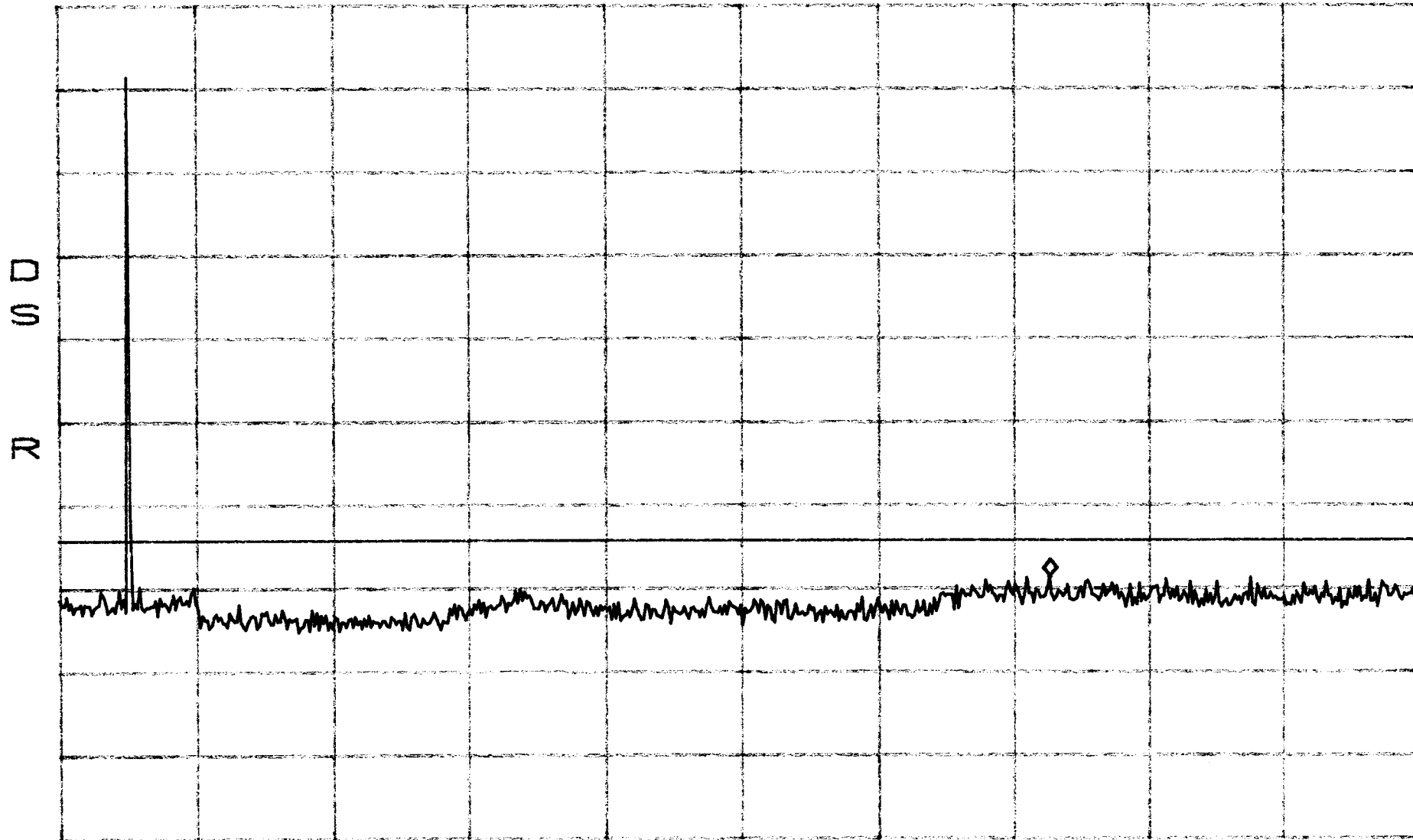
MKR -27.37dBm
515.0MHz



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

*ATTEN 30dB
RL 51.3dBm

MKR -17.20dBm
14.81GHz



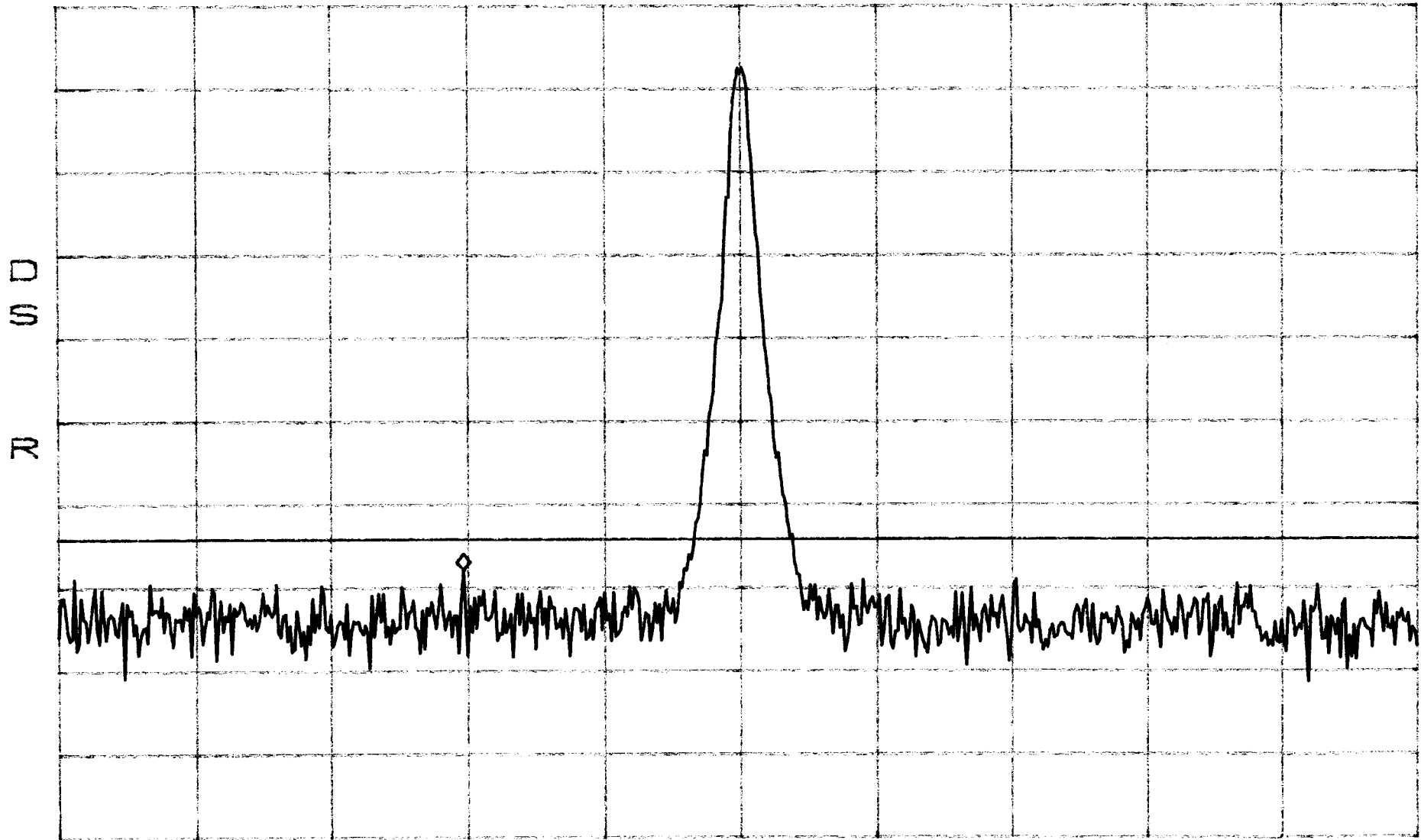
START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band B/F, F
TDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -16.53dBm
1.961483GHz

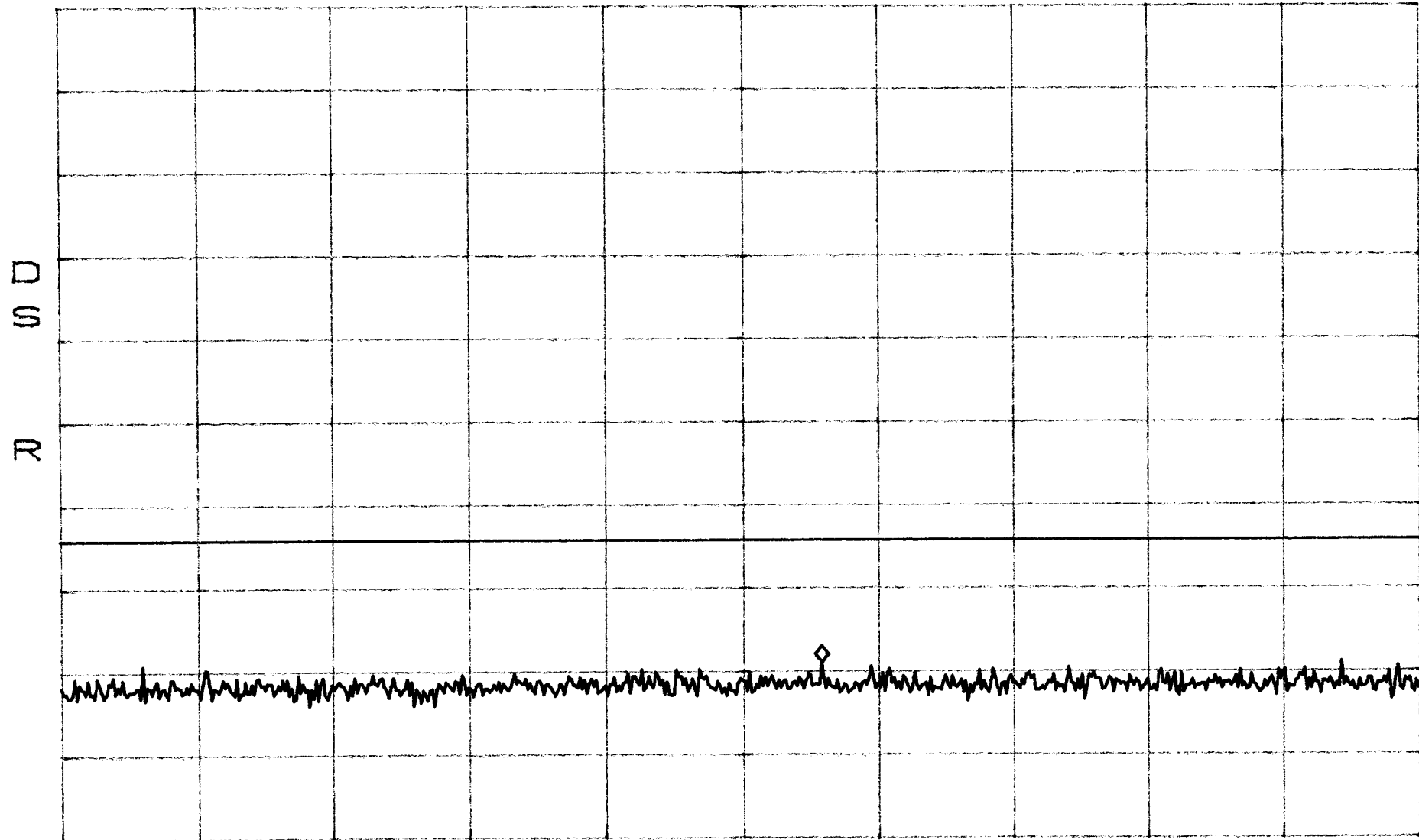


CENTER 1.962500GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

*ATTEN 30dB
RL 51.3dBm

MKR -27.53dBm
571.6MHz

10dB/



START 30.0MHz

STOP 1.0000GHz

*RBW 30kHz

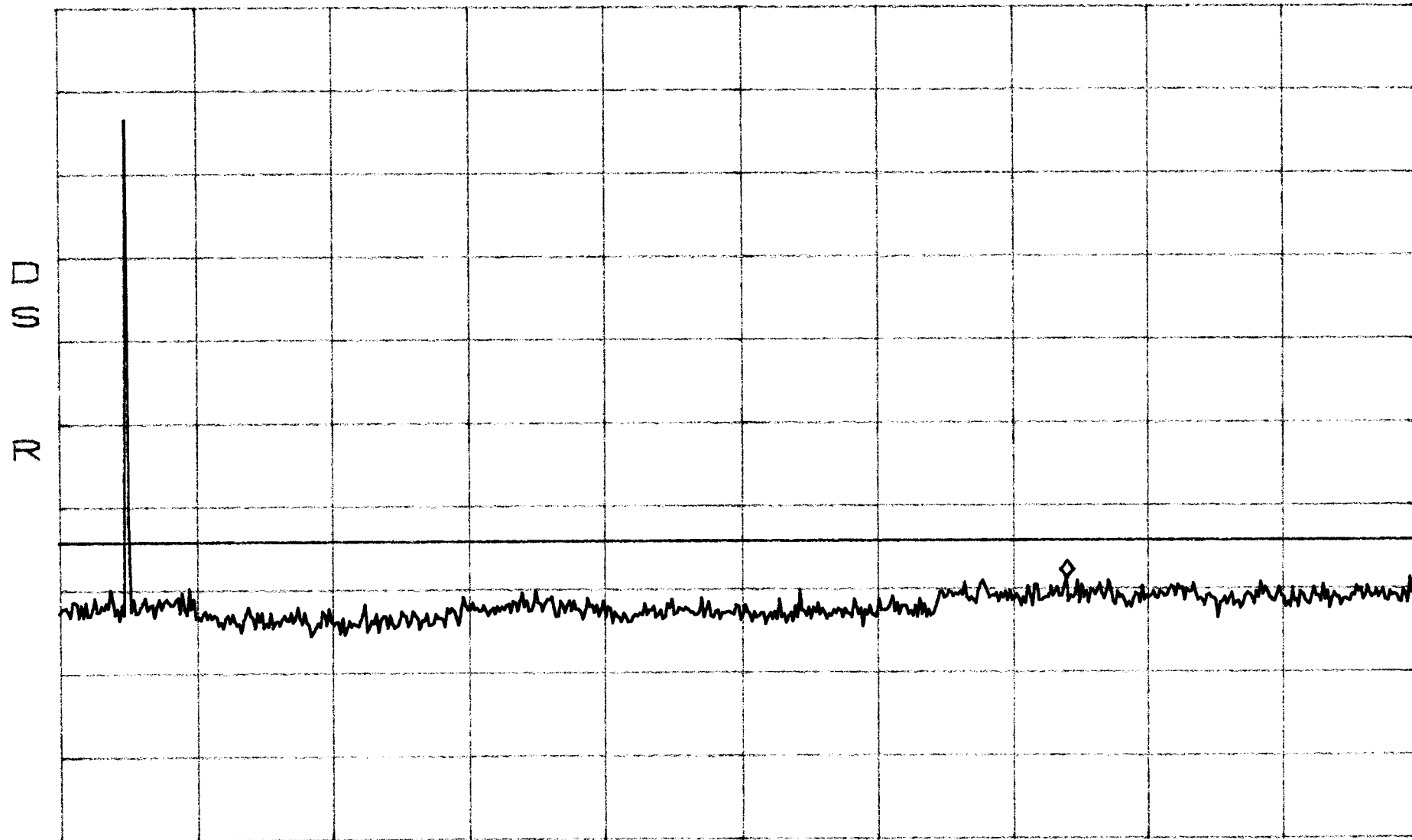
VBW 30kHz

SWP 2.7sec

Conducted Emissions Band B,E,F
TDMA

*ATTEN 30dB
RL 51.3dBm

MKR -17.37dBm
15.90GHz



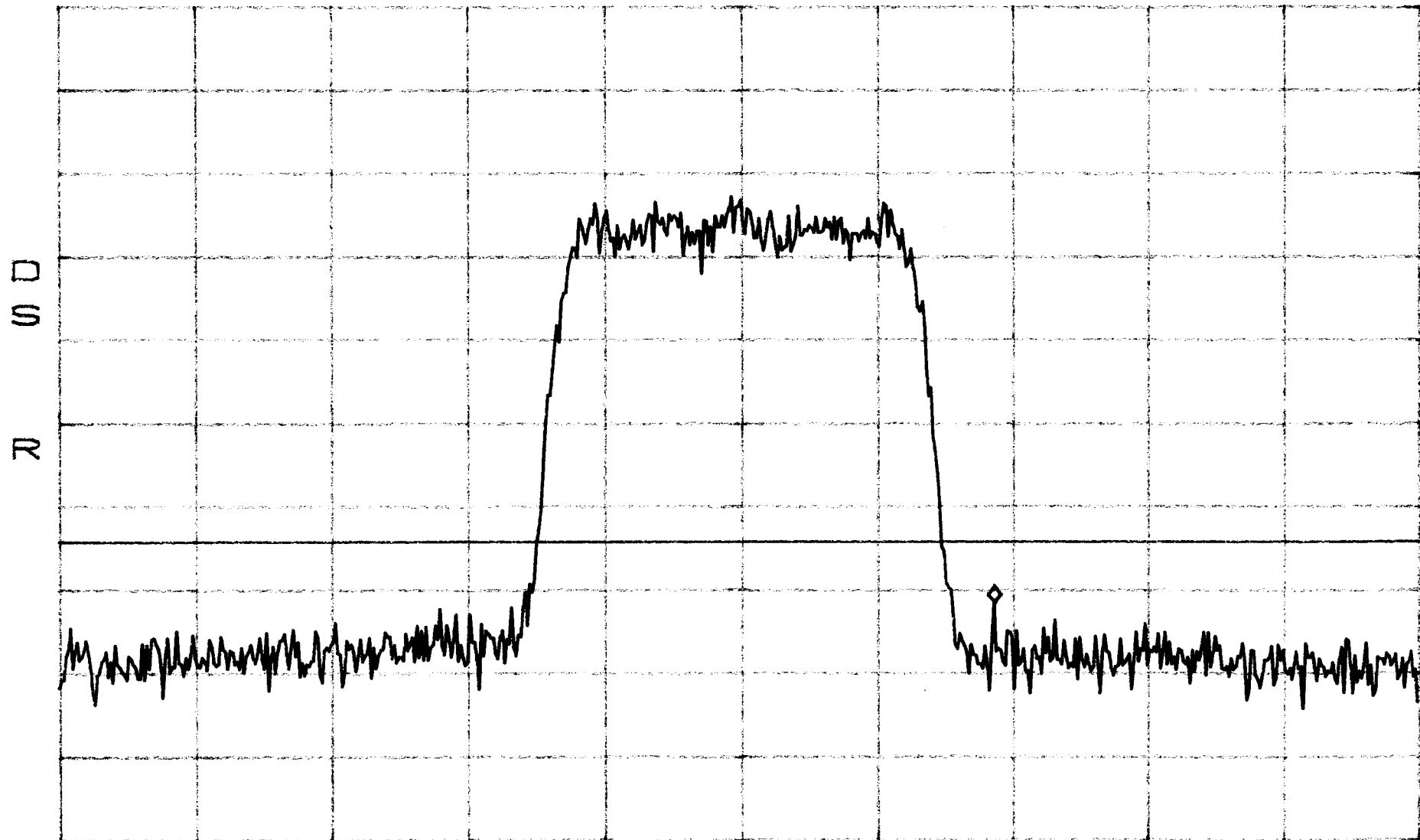
START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band B,E,F
CDMA

*ATTEN 30dB
RL 51.3dBm

VAVG 5
10dB/

MKR -20.20dBm
1.963433GHz



CENTER 1.962500GHz

SPAN 5.000MHz

*RBW 30kHz

VBW 30kHz

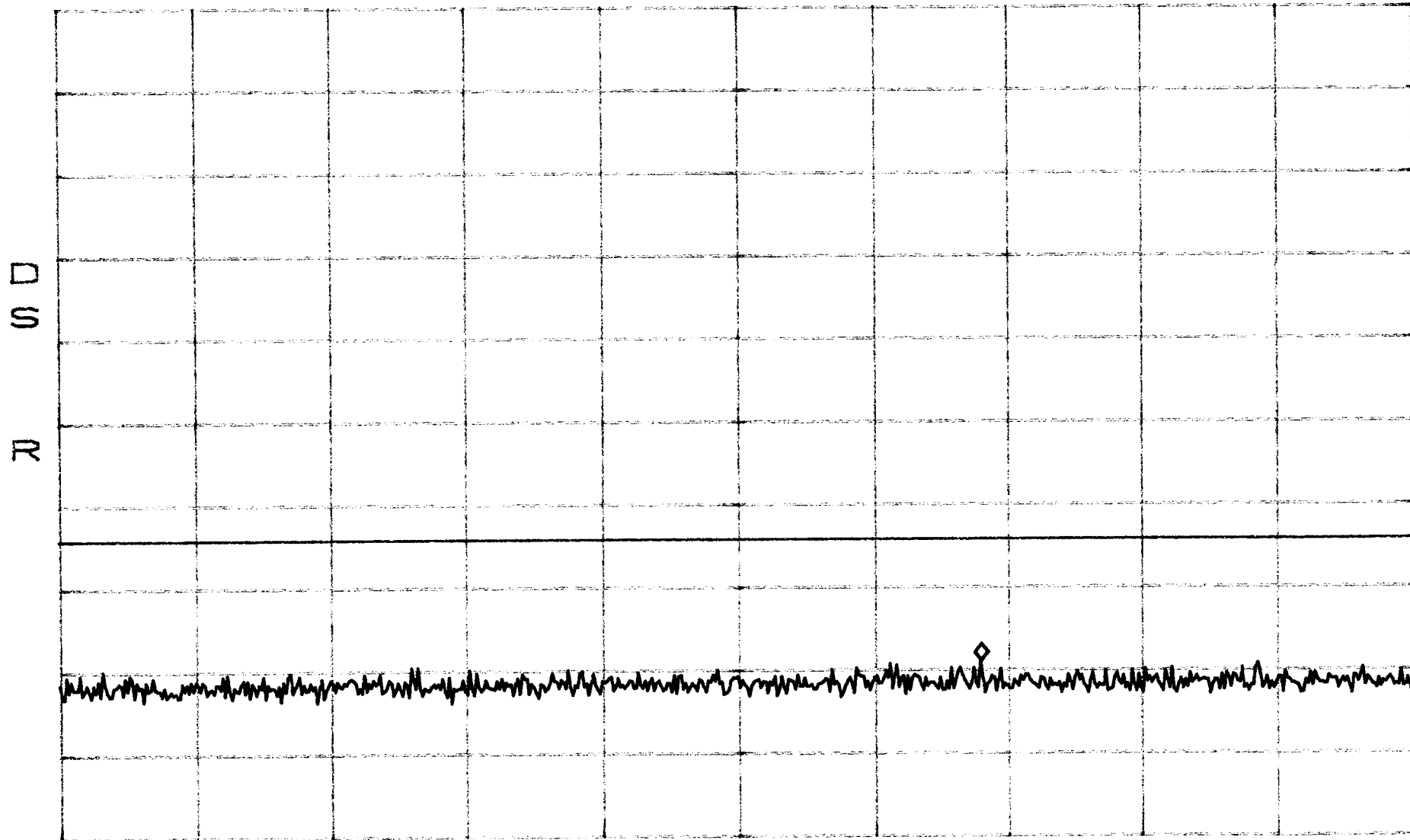
SWP 50ms

Conducted Emissions Band B,E,F
CDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -27.53dBm
689.6MHz

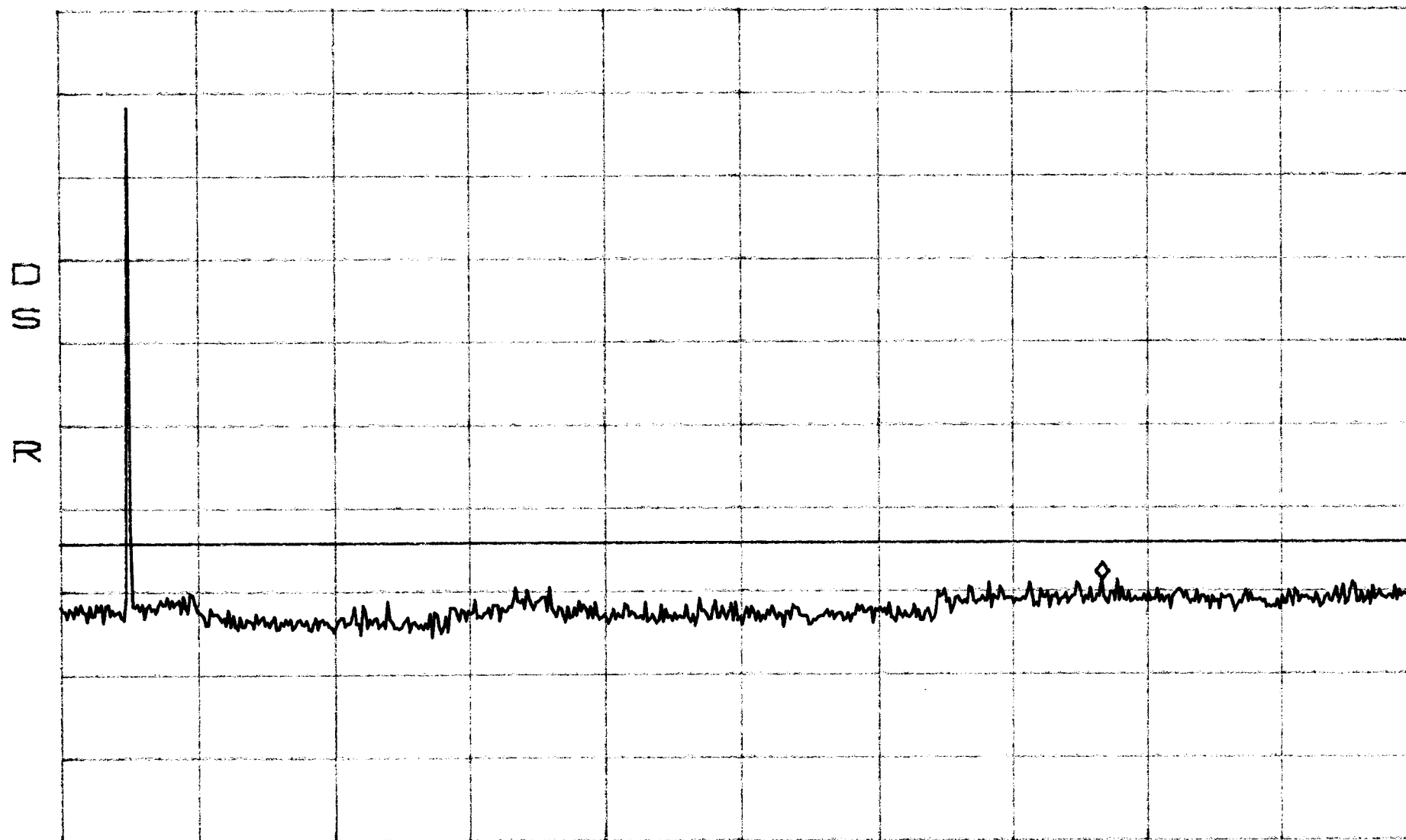


START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band B,E,F
CDMA

*ATTEN 30dB
RL 51.3dBm

MKR -17.37dBm
15.57GHz

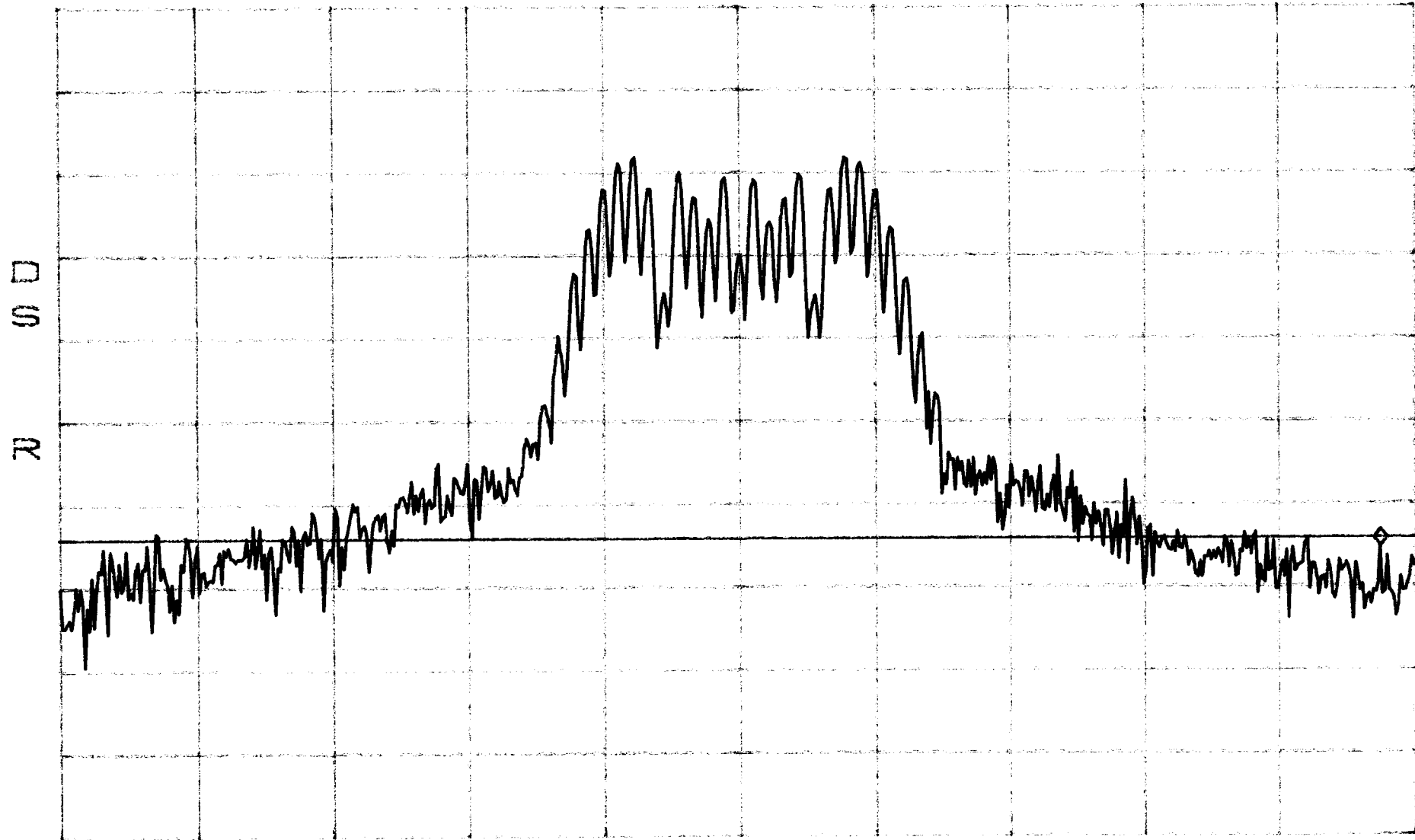


START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band B,E,F
Band Edge
FM

*ATTEN 30dB
RL 51.3dBm

MKR -13.87dBm
1.95024275GHz



CENTER 1.950200000GHz
*RBW 300Hz *VBW 3.0kHz

SPAN 90.00kHz
SWP 2.5sec

Conducted Emissions Band B,E,F
Band Edge
FM

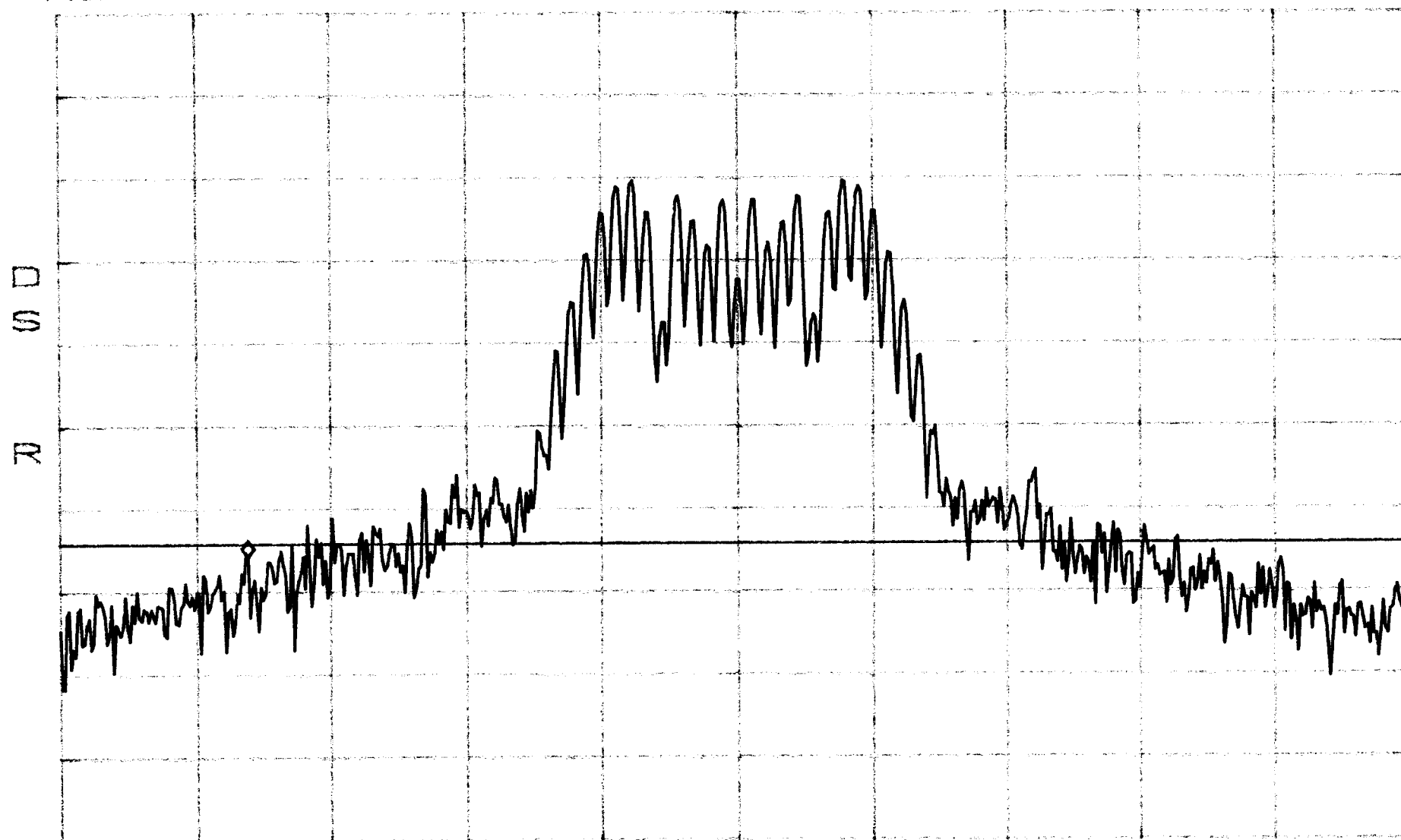
*ATTEN 30dB

RL 51.3dBm

10dB/

MKR -14.37dBm

1.97476745GHz



CENTER 1.974800000GHz

SPAN 90.00kHz

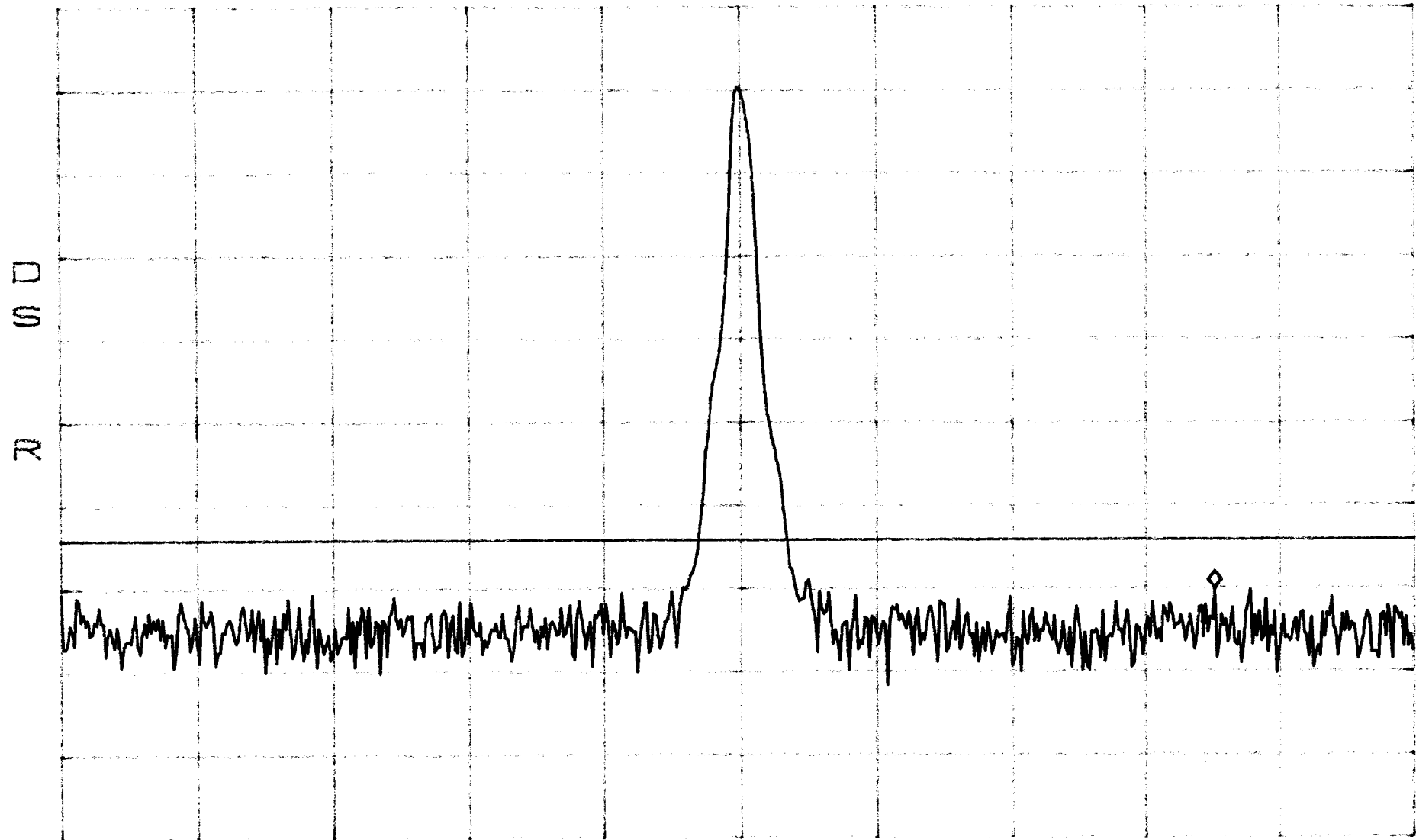
*RBW 300Hz

*VBW 300Hz

SWP 2.5sec

*ATTN 30dB
RL 51.3dBm

MKR -18.70dBm
1.979258GHz

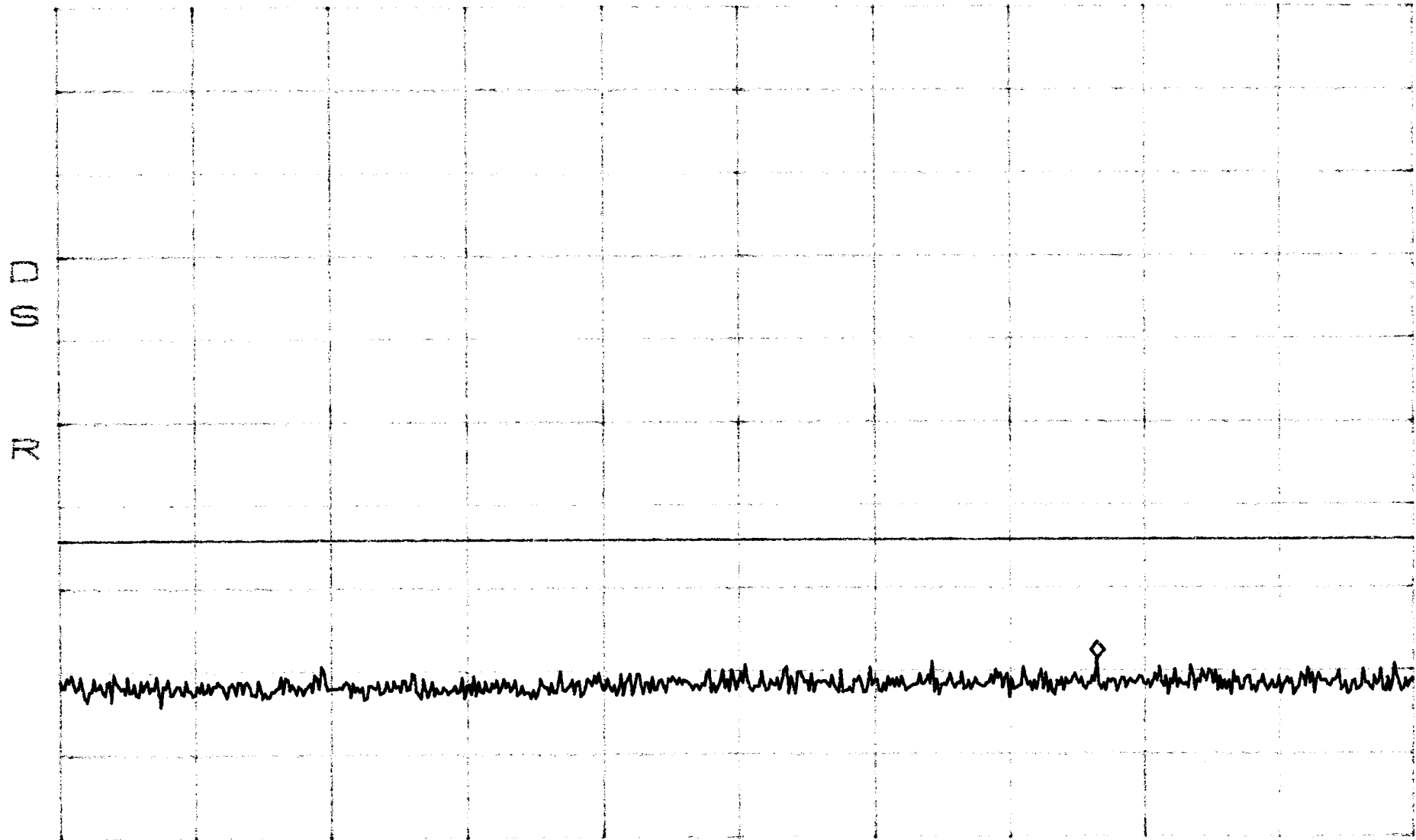


CENTER 1.977500GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -27.20dBm
772.1MHz

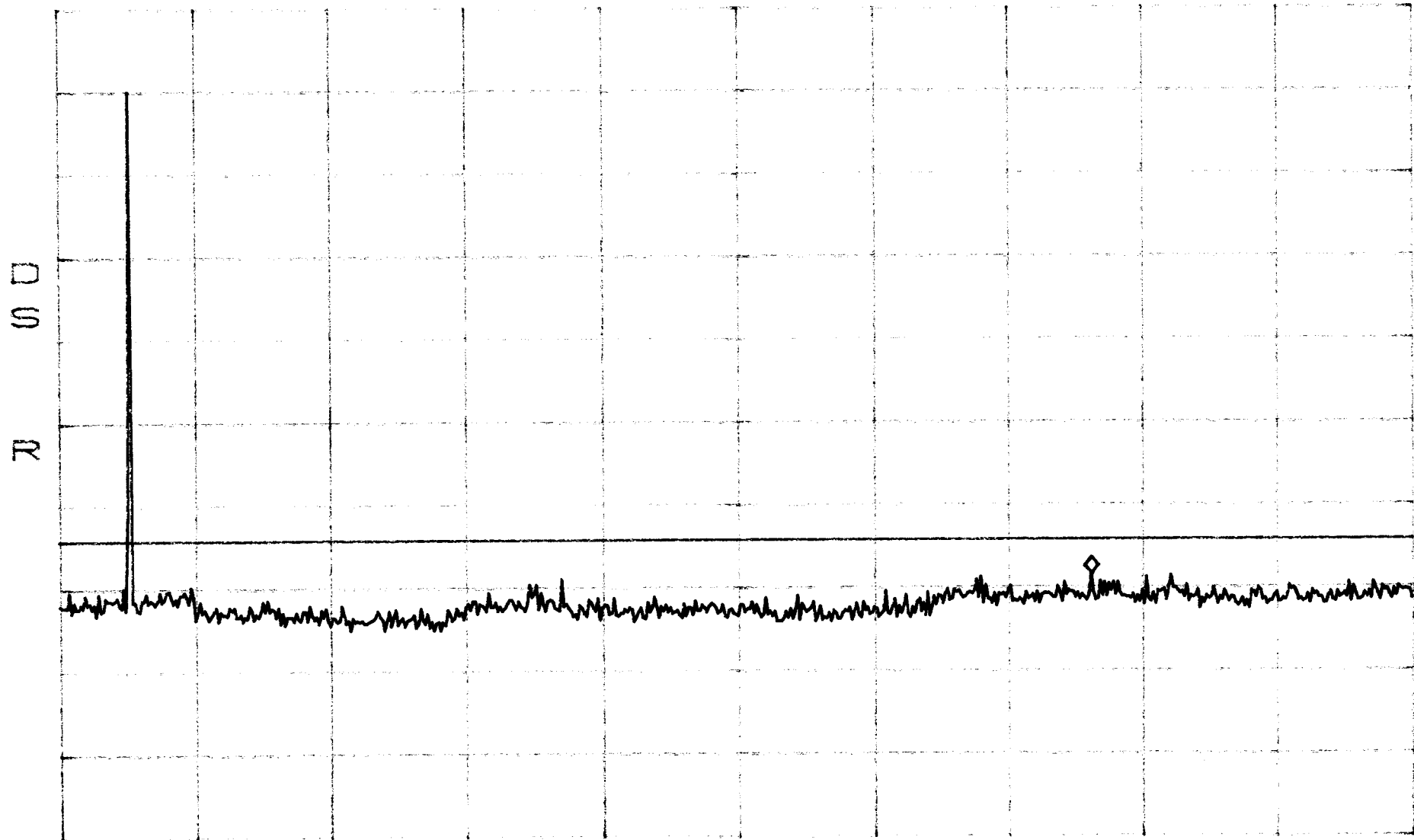


START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -17.03dBm
15.47GHz



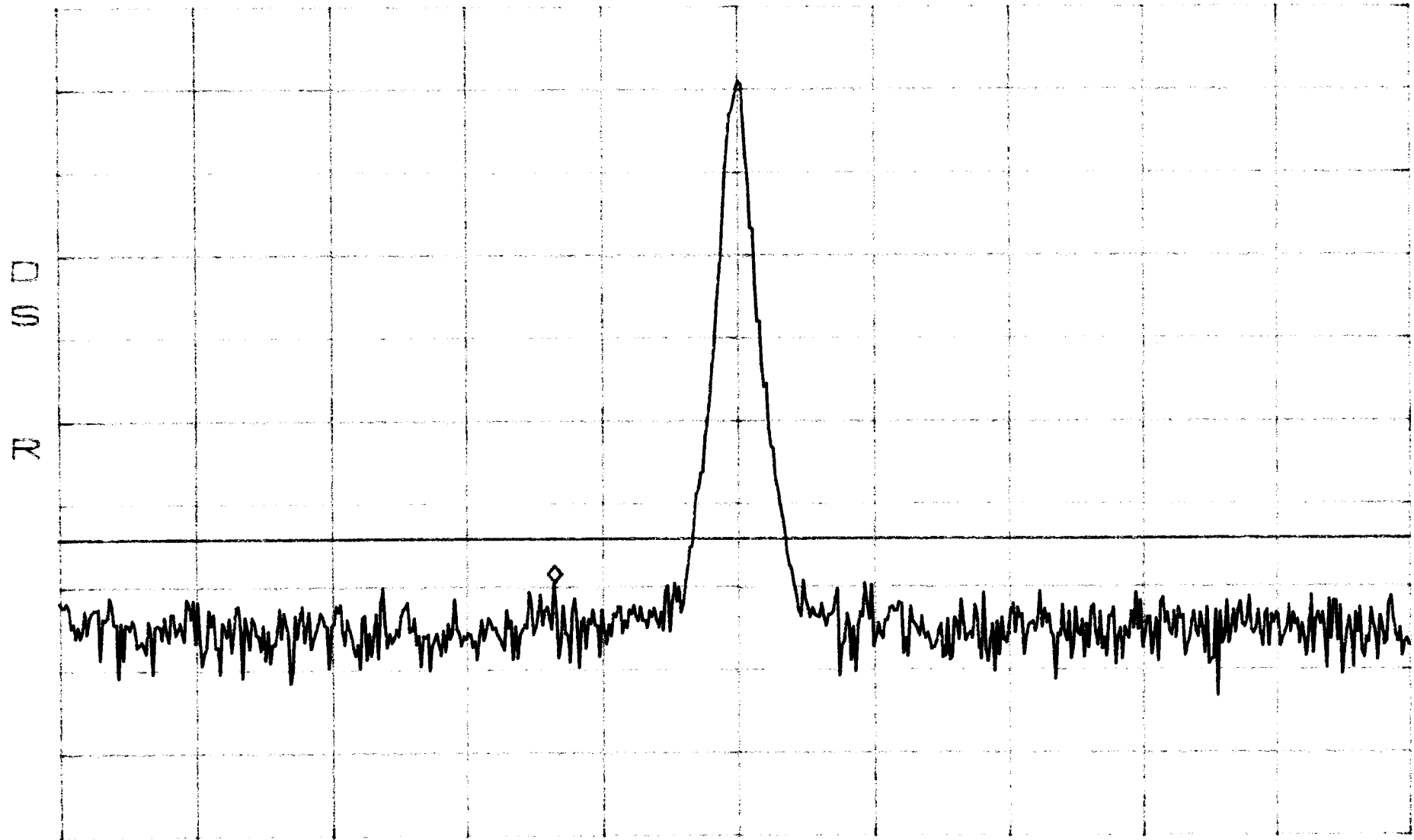
START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band E,F,C
TDMA

*ATTEN 30dB
RL 51.3dBm

MKR -18.03dBm
1.976825GHz

10dB/



CENTER 1.977500GHz

SPAN 5.000MHz

*RBW 30kHz

VBW 30kHz

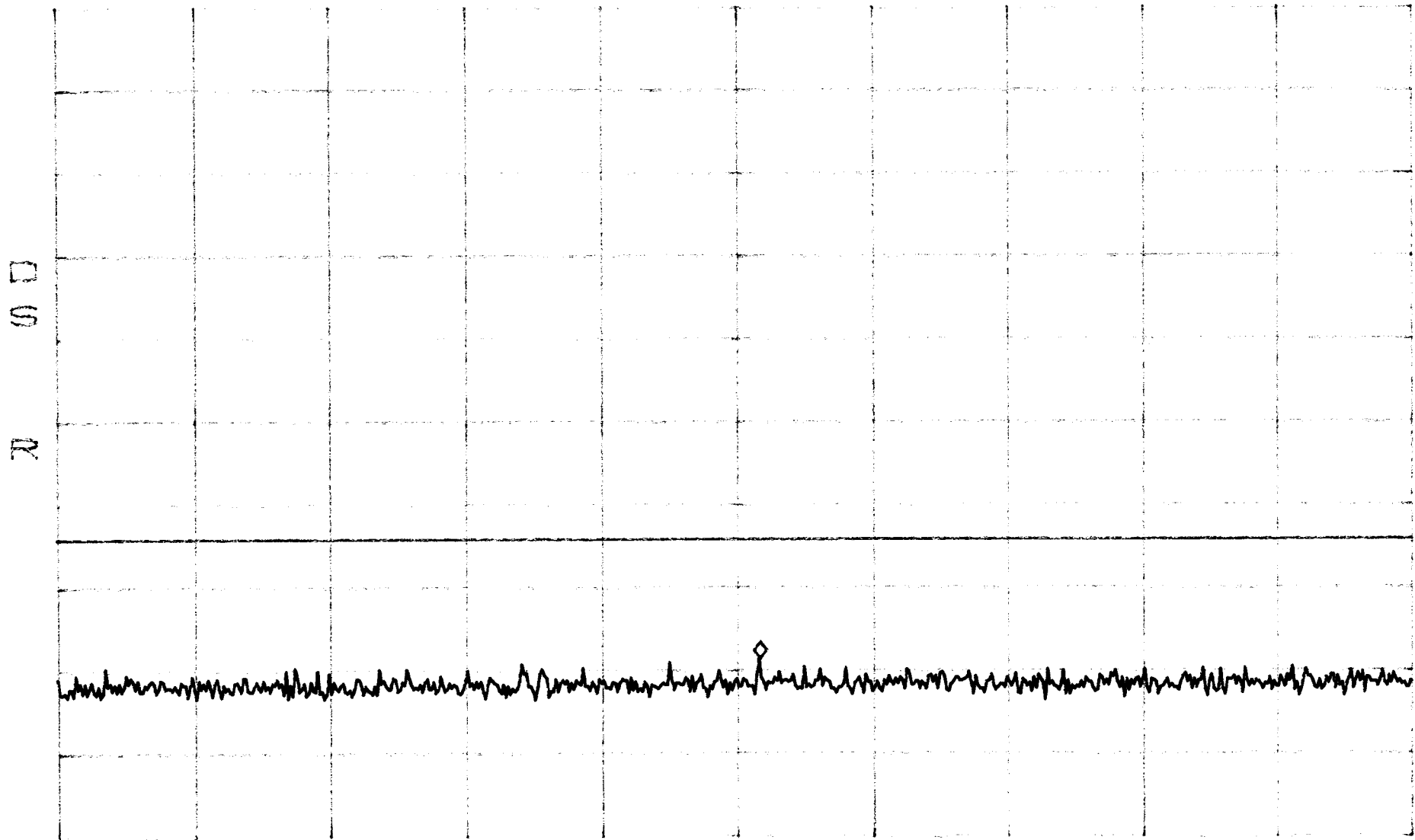
SWP 50ms

Conducted Emissions Band E, F, C
TDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -27.20dBm
531.2MHz



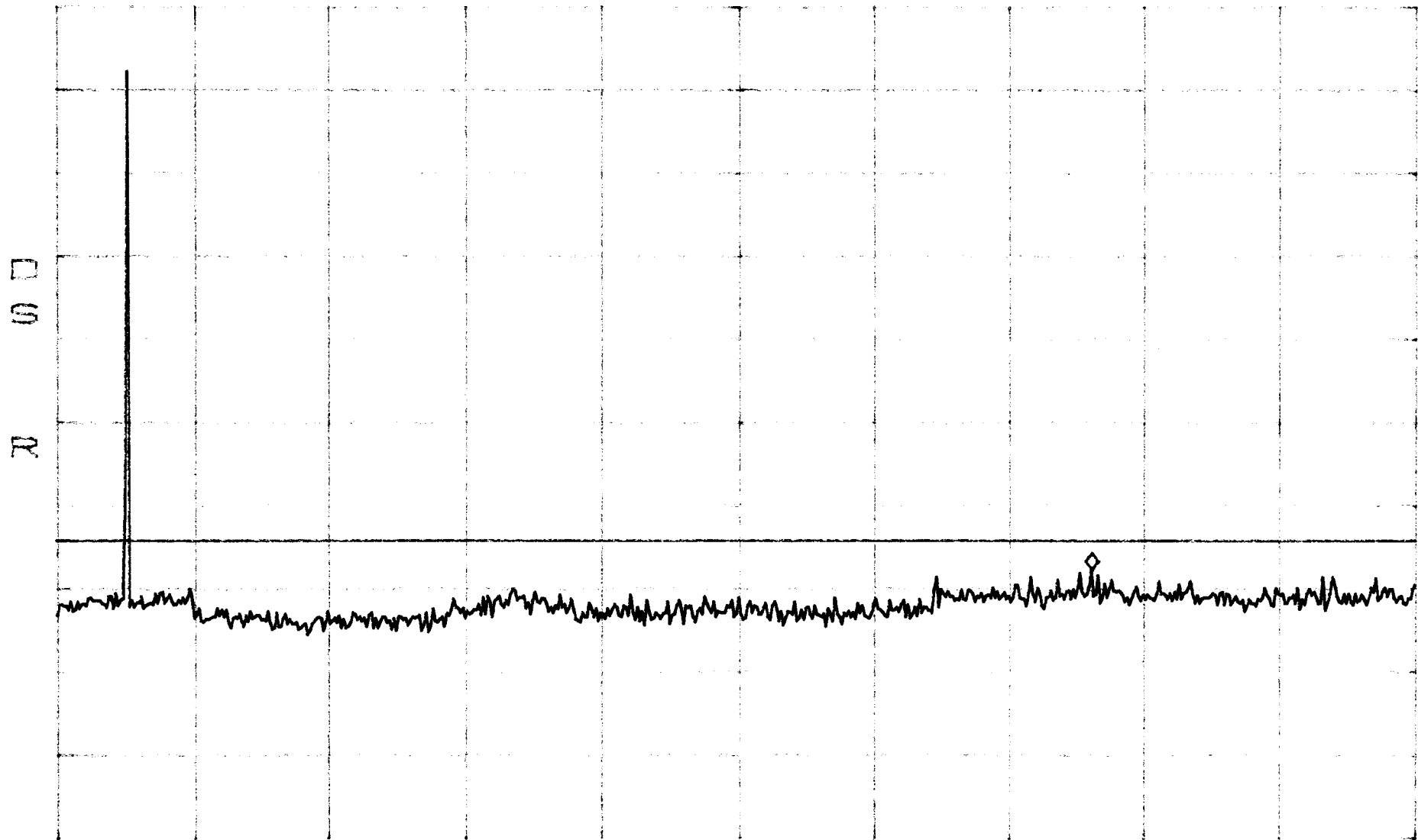
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band E, F, C
TDMA

*ATTEN 30dB
RL 51.3dBm

MKR -16.37dBm
15.47GHz

10dB/



START 1.00GHz

STOP 20.00GHz

*RBW 300kHz

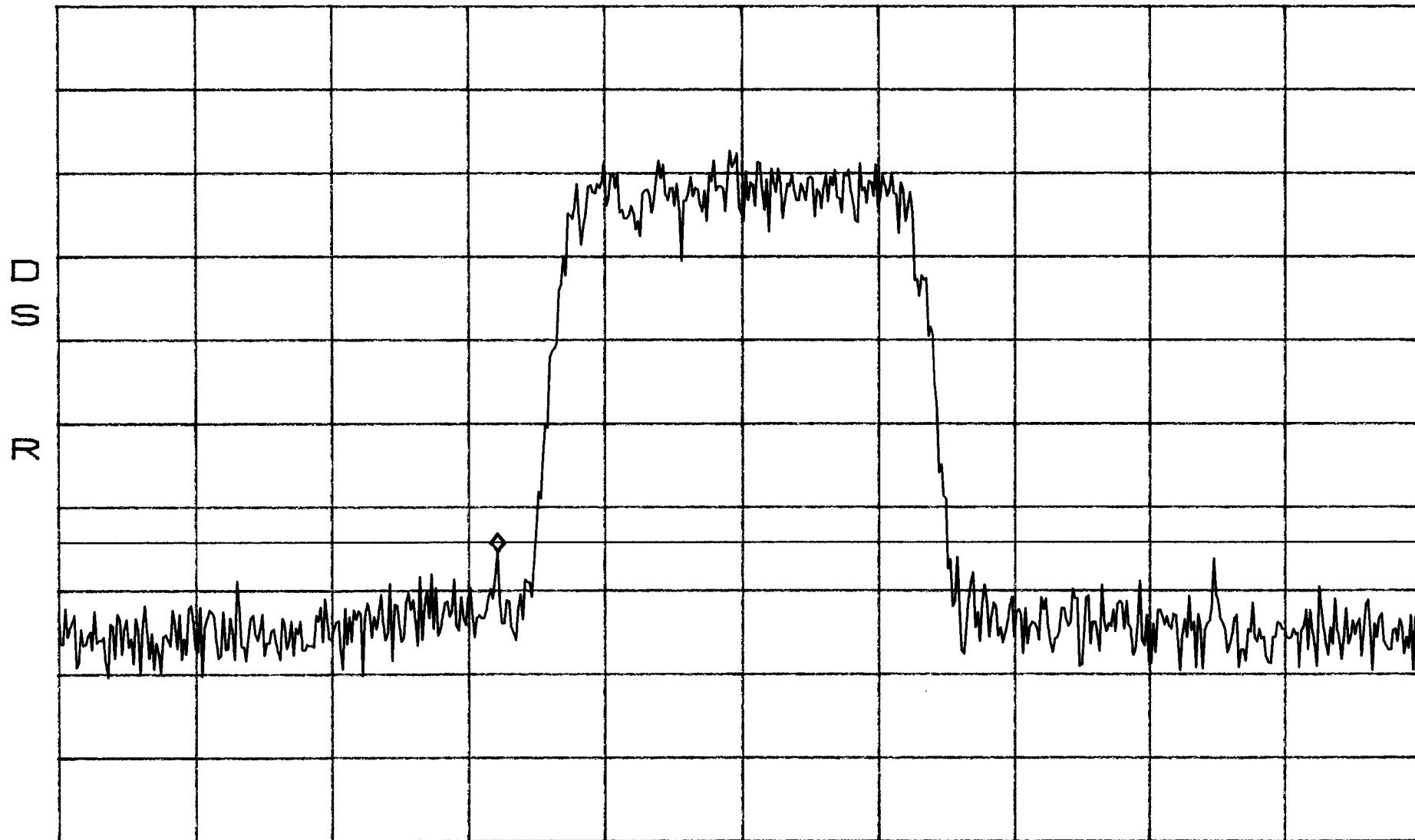
VBW 300kHz

SWP 530ms

Conducted Emissions Band E, F, C
CDMA

*ATTEN 30dB
RL 51.3dBm

MKR -13.87dBm
1.976608GHz



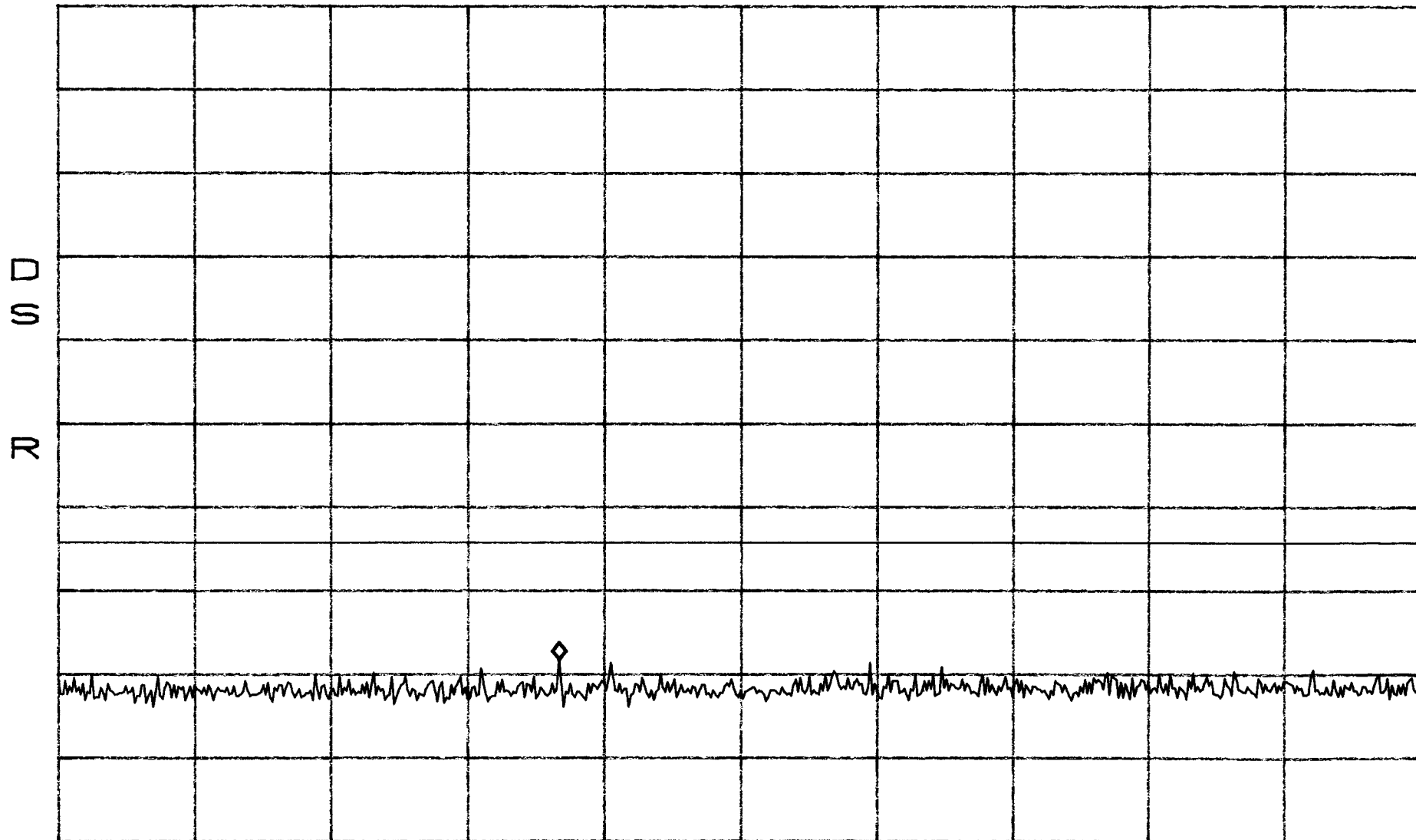
CENTER 1.977500GHz SPAN 5.000MHz
*RBW 30kHz VBW 30kHz SWP 50ms

Conducted Emissions Band E,F,C
CDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -26.87dBm
385.7MHz



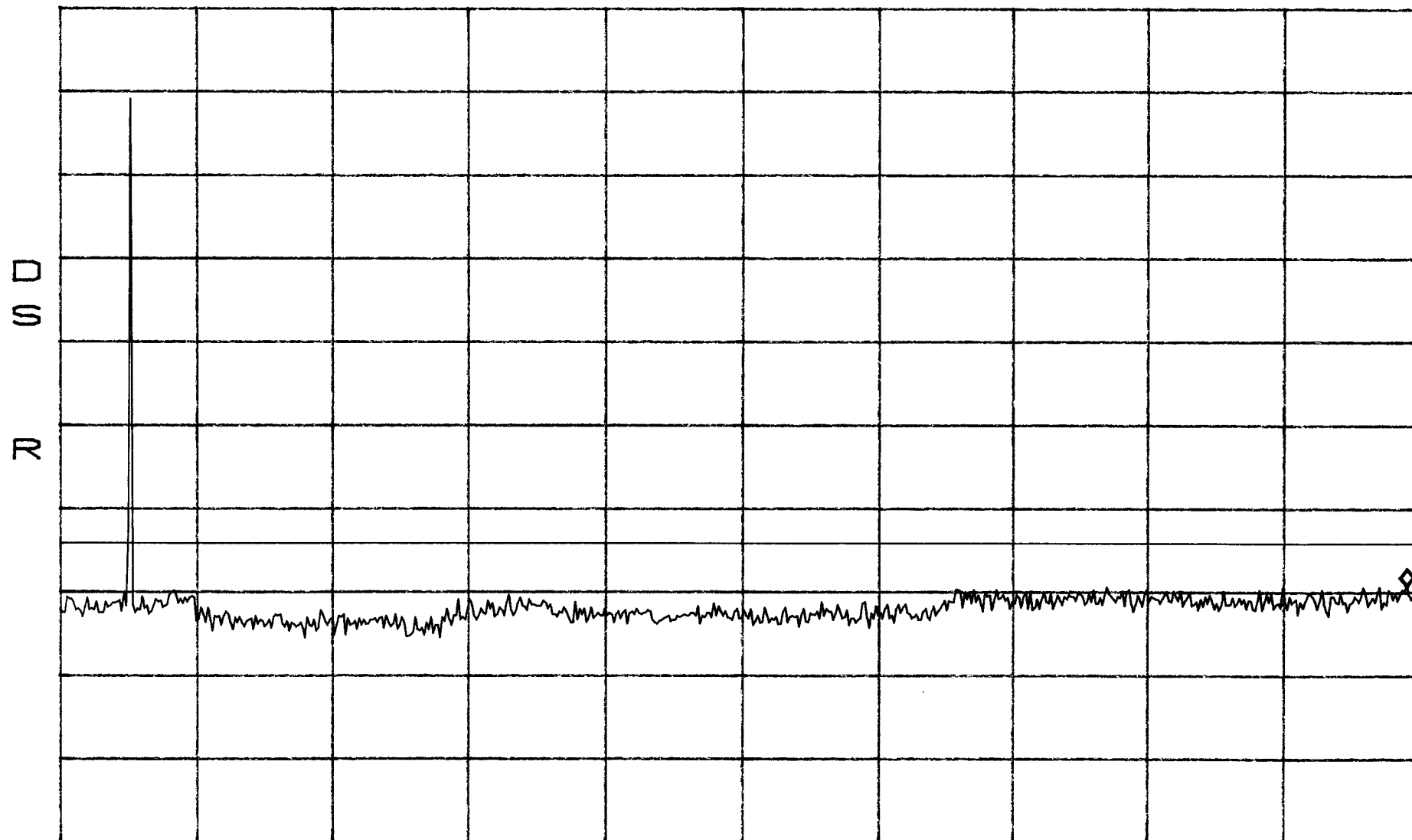
START 30.0MHz STOP 1.0000GHz
*RBW 30kHz VBW 30kHz SWP 2.7sec

Conducted Emissions Band E, F, C
CDMA

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -17.87dBm
19.81GHz



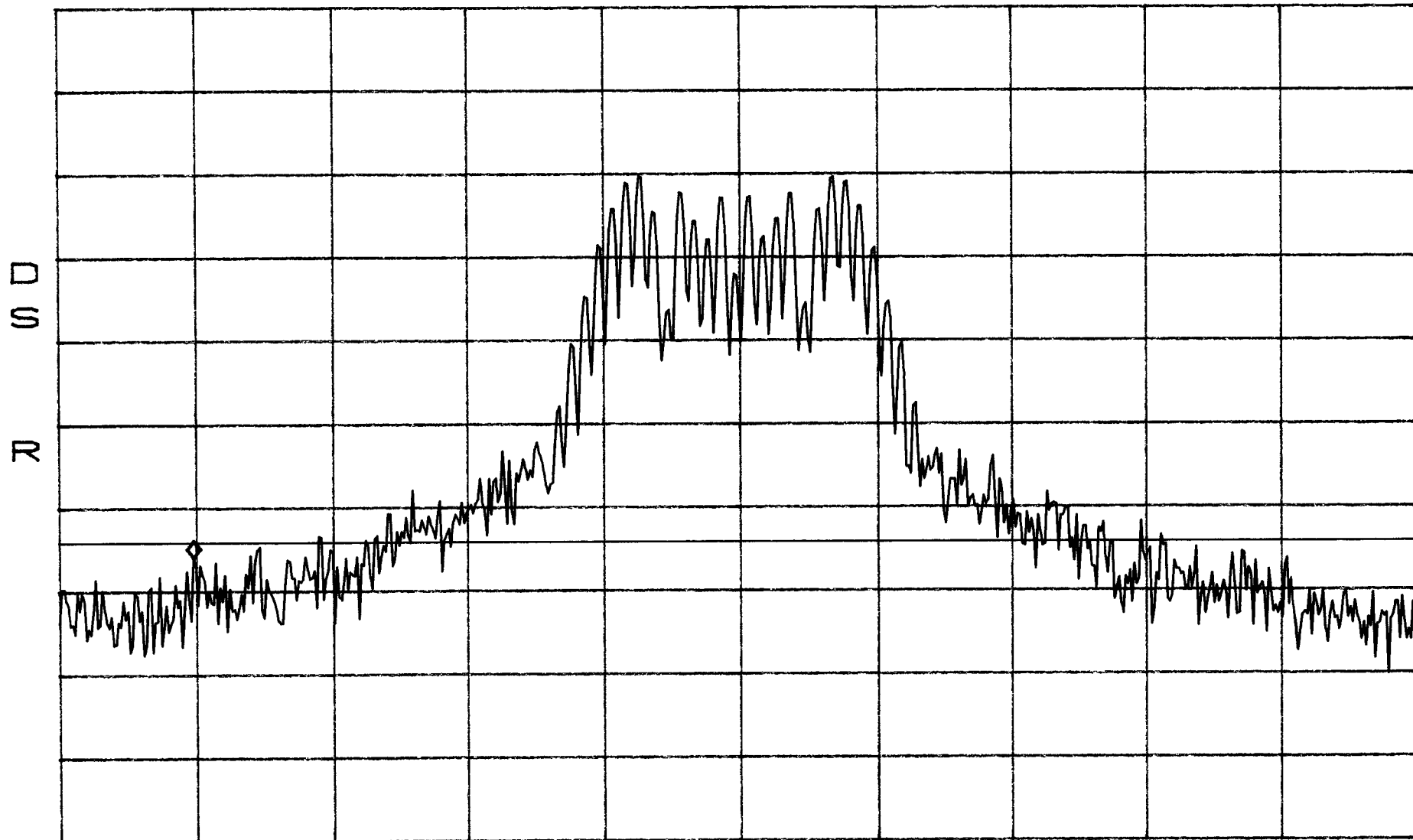
START 1.00GHz STOP 20.00GHz
*RBW 300kHz VBW 300kHz SWP 530ms

Conducted Emissions Band E,F,C
Band Edge
FM

*ATTEN 30dB
RL 51.3dBm

10dB/

MKR -14.53dBm
1.9651602GHz



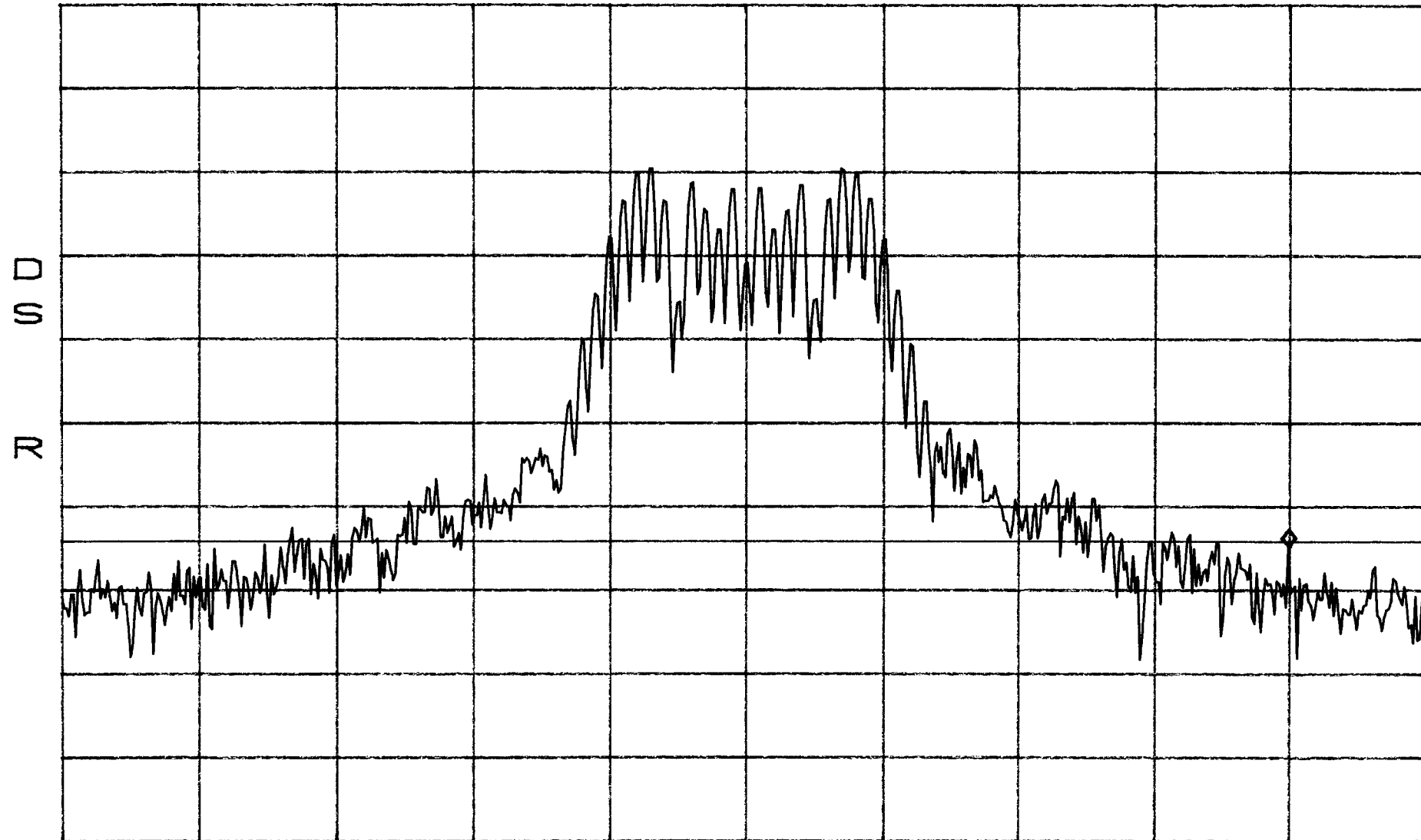
CENTER 1.9652003GHz
*RBW 300Hz VBW 300Hz

SPAN 100.0kHz
SWP 2.8sec

Conducted Emissions Band E,F,C
Band Edge
FM

*ATTEN 30dB
RL 51.3dBm

MKR -13.37dBm
1.9898400GHz



CENTER 1.9898000GHz SPAN 100.0kHz
*RBW 300Hz VBW 300Hz SWP 2.8sec

Radiated Electromagnetic Emissions



Test Report #:	2675 Run 02	Test Area:	OW 3m	
Test Method:	N/A	Test Date:	05-Jun-2003	
EUT Model #:	DGVL-112110SYS & DGVL-122110SYS	EUT Power:	40 VDC	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC TELECOMMUNICATIONS	Relative Humidity:	50	%
EUT Description:	CELLULAR A & B BAND SYSTEM	Air Pressure:	98.5	kPa
Notes:	SEE MEASUREMENT SUMMARY FOR FINAL dBm LEVELS			Page: 1 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	LIMIT dBm
30.50	60.8 Pk	0.5 / 20.6 / 28.3	53.5	V / 1.0 / 0.0	See Measurement	-13
58.95	66.7 Qp	0.7 / 11.8 / 28.2	51.1	V / 1.0 / 0.0	Summary – Page 5	-13
79.63	58.3 Pk	0.9 / 7.5 / 28.2	38.5	V / 1.0 / 0.0	"	-13
103.40	58.6 Qp	1.0 / 9.2 / 28.2	40.6	V / 1.0 / 0.0	"	-13
142.00	72.3 Qp	1.1 / 8.9 / 28.3	54.0	V / 1.0 / 0.0	"	-13
156.20	55.2 Qp	1.3 / 9.2 / 28.2	37.4	V / 1.0 / 0.0	"	-13
178.50	54.3 Qp	1.3 / 9.1 / 28.3	36.4	V / 1.0 / 0.0	"	-13
213.00	64.8 Qp	1.4 / 10.8 / 28.2	48.7	V / 1.0 / 0.0	"	-13
225.85	46.3 Qp	1.4 / 11.1 / 28.2	30.5	V / 1.0 / 0.0	"	-13
284.00	76.5 Qp	1.6 / 12.8 / 28.3	62.6	V / 1.0 / 0.0	"	-13
323.70	39.6 Qp	1.7 / 13.7 / 28.2	26.8	V / 1.0 / 0.0	"	-13
355.00	58.3 Qp	1.8 / 15.0 / 28.2	46.9	V / 1.0 / 0.0	"	-13
426.00	73.8 Qp	2.0 / 16.9 / 28.1	64.6	V / 1.0 / 0.0	"	-13
497.00	66.0 Qp	2.2 / 17.4 / 28.1	57.5	V / 1.0 / 0.0	"	-13
548.60	36.8 Qp	2.3 / 18.8 / 28.1	29.7	V / 1.0 / 0.0	"	-13
568.00	59.7 Qp	2.3 / 18.3 / 28.1	52.2	V / 1.0 / 0.0	"	-13
639.00	56.9 Qp	2.5 / 19.8 / 28.0	51.2	V / 1.0 / 0.0	"	-13
653.70	31.5 Qp	2.5 / 19.8 / 28.0	25.8	V / 1.0 / 0.0	"	-13
710.00	63.5 Qp	2.6 / 20.4 / 28.0	58.5	V / 1.0 / 0.0	"	-13
781.00	41.0 Qp	2.7 / 21.7 / 27.9	37.5	V / 1.0 / 0.0	"	-13
801.90	32.7 Qp	2.7 / 21.9 / 27.9	29.6	V / 1.0 / 0.0	"	-13
852.00	49.1 Qp	2.9 / 22.3 / 27.7	46.6	V / 1.0 / 0.0	"	-13
909.75	58.2 Qp	2.9 / 23.0 / 27.7	56.4	V / 1.0 / 0.0	"	-13
994.00	56.4 Qp	3.2 / 22.7 / 27.7	54.5	V / 1.0 / 0.0	"	-13
1064.95	55.9 Pk	3.3 / 23.1 / 27.7	54.6	V / 1.0 / 0.0	"	-13

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Radiated Electromagnetic Emissions



Test Report #:	2675 Run 02	Test Area:	OW 3m	
Test Method:	N/A	Test Date:	05-Jun-2003	
EUT Model #:	DGVL-112110SYS & DGVL-122110SYS	EUT Power:	40 VDC	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC TELECOMMUNICATIONS	Relative Humidity:	50	%
EUT Description:	CELLULAR A & B BAND SYSTEM	Air Pressure:	98.5	kPa
Notes:	SEE MEASUREMENT SUMMARY FOR FINAL dBm LEVELS			Page: 2 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	LIMIT dBm
1136.15	48.2 Pk	3.2 / 23.9 / 27.7	47.6	V / 1.0 / 0.0	See Measurement	-13
1206.90	47.8 Pk	3.3 / 24.0 / 27.7	47.5	V / 1.0 / 0.0	Summary – Page 5	-13
1278.10	45.0 Pk	3.6 / 24.8 / 27.8	45.6	V / 1.0 / 0.0	"	-13
1349.15	54.1 Pk	3.6 / 25.8 / 27.9	55.6	V / 1.0 / 0.0	"	-13
1491.15	40.4 Pk	3.8 / 27.0 / 28.0	43.2	V / 1.0 / 0.0	"	-13
1633.20	42.6 Pk	4.0 / 27.8 / 28.0	46.3	V / 1.0 / 0.0	"	-13
1737.90	41.7 Pk	4.1 / 28.2 / 28.0	46.0	V / 1.0 / 0.0	"	-13
79.95	51.2 Qp	0.9 / 7.5 / 28.2	31.4	V / 1.0 / 90.0	"	-13
103.40	68.9 Qp	1.0 / 9.2 / 28.2	50.9	V / 1.0 / 90.0	"	-13
178.50	57.0 Qp	1.3 / 9.1 / 28.3	39.1	V / 1.0 / 90.0	"	-13
781.00	52.5 Qp	2.7 / 21.7 / 27.9	49.0	V / 1.0 / 90.0	"	-13
1738.08	55.5 Pk	4.1 / 28.2 / 28.0	59.8	V / 1.0 / 90.0	"	-13
79.95	57.8 Qp	0.9 / 7.5 / 28.2	37.9	V / 1.0 / 180.0	"	-13
142.00	77.4 Qp	1.1 / 8.9 / 28.3	59.1	V / 1.0 / 180.0	"	-13
156.20	59.4 Qp	1.3 / 9.2 / 28.2	41.6	V / 1.0 / 180.0	"	-13
213.00	68.2 Qp	1.4 / 10.8 / 28.2	52.2	V / 1.0 / 180.0	"	-13
225.85	52.1 Qp	1.4 / 11.1 / 28.2	36.4	V / 1.0 / 180.0	"	-13
568.00	61.4 Qp	2.3 / 18.3 / 28.1	53.9	V / 1.0 / 180.0	"	-13
639.00	58.6 Qp	2.5 / 19.8 / 28.0	52.9	V / 1.0 / 180.0	"	-13
781.00	55.7 Qp	2.7 / 21.7 / 27.9	52.2	V / 1.0 / 180.0	"	-13
852.00	50.4 Qp	2.9 / 22.3 / 27.7	47.9	V / 1.0 / 180.0	"	-13
1207.07	50.5 Pk	3.3 / 24.0 / 27.7	50.2	V / 1.0 / 180.0	"	-13
30.50	60.9 Qp	0.5 / 20.6 / 28.3	53.7	V / 1.0 / 270.0	"	-13
284.00	82.9 Qp	1.6 / 12.8 / 28.3	69.1	V / 1.0 / 270.0	"	-13
639.00	62.9 Qp	2.5 / 19.8 / 28.0	57.2	V / 1.0 / 270.0	"	-13

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Radiated Electromagnetic Emissions



Test Report #:	2675 Run 02	Test Area:	OW 3m	
Test Method:	N/A	Test Date:	05-Jun-2003	
EUT Model #:	DGVL-112110SYS & DGVL-122110SYS	EUT Power:	40 VDC	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC TELECOMMUNICATIONS	Relative Humidity:	50	%
EUT Description:	CELLULAR A & B BAND SYSTEM	Air Pressure:	98.5	kPa
Notes:	SEE MEASUREMENT SUMMARY FOR FINAL dBm LEVELS			Page: 3 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	LIMIT dBm
1278.07	47.3 Pk	3.6 / 24.8 / 27.8	47.9	V / 1.0 / 270.0	See Measurement	-13
284.00	83.5 Qp	1.6 / 12.8 / 28.3	69.7	V / 1.0 / 260.0	Summary – Page 5	-13
710.00	65.7 Qp	2.6 / 20.4 / 28.0	60.7	V / 3.0 / 0.0	"	-13
323.70	44.8 Qp	1.7 / 13.7 / 28.2	32.0	V / 3.0 / 180.0	"	-13
355.00	59.2 Qp	1.8 / 15.0 / 28.2	47.8	V / 3.0 / 180.0	"	-13
355.00	62.2 Qp	1.8 / 15.0 / 28.2	50.9	V / 3.0 / 270.0	"	-13
710.00	68.6 Qp	2.6 / 20.4 / 28.0	63.6	V / 2.5 / 0.0	"	-13
225.85	54.6 Qp	1.4 / 11.1 / 28.2	38.8	H / 3.0 / 0.0	"	-13
355.00	65.1 Qp	1.8 / 15.0 / 28.2	53.8	H / 3.0 / 0.0	"	-13
79.95	60.6 Qp	0.9 / 7.5 / 28.2	40.8	H / 3.0 / 90.0	"	-13
426.00	76.4 Qp	2.0 / 16.9 / 28.1	67.2	H / 3.0 / 270.0	"	-13
426.00	79.4 Qp	2.0 / 16.9 / 28.1	70.2	H / 2.1 / 270.0	"	-13
355.00	66.5 Qp	1.8 / 15.0 / 28.2	55.2	H / 1.0 / 0.0	"	-13
568.00	62.3 Qp	2.3 / 18.3 / 28.1	54.9	H / 1.0 / 0.0	"	-13
639.00	63.8 Qp	2.5 / 19.8 / 28.0	58.1	H / 1.0 / 0.0	"	-13
225.85	57.2 Qp	1.4 / 11.1 / 28.2	41.5	H / 1.0 / 90.0	"	-13
497.00	68.4 Qp	2.2 / 17.4 / 28.1	59.9	H / 1.0 / 90.0	"	-13
710.00	72.5 Qp	2.6 / 20.4 / 28.0	67.5	H / 1.0 / 90.0	"	-13
909.75	64.1 Qp	2.9 / 23.0 / 27.7	62.3	H / 1.0 / 90.0	"	-13
SIGNAL GENERATOR/CABLE LOSS LEVEL = -20 DBM - 6 DB DIPOLE FACTOR = -26 DBM SUBSTITUTION LEVEL AT 426						
ABOVE READINGS TAKEN AT 869 MHZ XMIT FREQUENCY						
NO HIGHER LEVELS WITH 879 MHZ XMIT FREQUENCY						
284.00	83.6 Qp	1.6 / 12.8 / 28.3	69.7	V / 1.0 / 270.0	"	-13
2840.10	38.3 Pk	5.7 / 31.1 / 27.6	47.6	H / 1.0 / 0.0	"	-13
5112.00	39.4 Pk	8.2 / 35.1 / 40.8	41.8	H / 3.0 / 0.0	"	-13

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Radiated Electromagnetic Emissions



Test Report #:	2675 Run 02	Test Area:	OW 3m	
Test Method:	N/A	Test Date:	05-Jun-2003	
EUT Model #:	DGVL-112110SYS & DGVL-122110SYS	EUT Power:	40 VDC	
EUT Serial #:		Temperature:	22	°C
Manufacturer:	ADC TELECOMMUNICATIONS	Relative Humidity:	50	%
EUT Description:	CELLULAR A & B BAND SYSTEM	Air Pressure:	98.5	kPa
Notes:	SEE MEASUREMENT SUMMARY FOR FINAL dBm LEVELS			Page: 4 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	LIMIT dBm
ABOVE READINGS WITH 891.5 MHZ XMIT FREQUENCY						
5679.95	39.7 Pk	8.9 / 36.0 / 40.9	43.7	H / 1.0 / 0.0	See Measurement	-13
5988.00	43.5 Pk	9.7 / 36.4 / 41.0	48.5	V / 1.0 / 0.0	Summary – Page 5	-13
639.00	67.6 Qp	2.5 / 19.8 / 28.0	61.9	V / 1.0 / 0.0	"	-13
639.00	69.9 Qp	2.5 / 19.8 / 28.0	64.2	V / 1.2 / 0.0	"	-13
909.80	71.0 Qp	2.9 / 23.0 / 27.7	69.2	V / 1.5 / 75.0	"	-13
568.00	67.8 Qp	2.3 / 18.3 / 28.1	60.3	V / 1.2 / 270.0	"	-13
ABOVE READINGS AT 880 MHZ XMIT FREQUENCY						
NO HIGHER LEVELS WITH 887 MHZ XMIT FREQUENCY						
NO HIGHER LEVELS WITH 894 MHZ XMIT FREQUENCY						
SCANNED 30-9000 MHZ, 360 DEGREES, 1-4 METERS HIGH, VERT. AND HOR. POLARIZATION.						

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Radiated Electromagnetic Emissions



Test Report #:	2675 Run 02	Test Area:	OW 3m		
Test Method:	N/A	Test Date:	05-Jun-2003		
EUT Model #:	DGVL-112110SYS & DGVL-122110SYS	EUT Power:	40 VDC		
EUT Serial #:				Temperature:	22 °C
Manufacturer:	ADC TELECOMMUNICATIONS			Relative Humidity:	50 %
EUT Description:	CELLULAR A & B BAND SYSTEM			Air Pressure:	98.5 kPa
Notes:	SEE MEASUREMENT SUMMARY FOR FINAL dBm LEVELS			Page:	5 of 5

FREQ (MHz)	LEVEL (dBuV)	CABLE / ANT / PREAMP (dB) (dB/m) (dB)	FINAL (dBuV)	POL / HGT / AZ (m) (DEG)	erp dBm	LIMIT dBm
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***** MEASUREMENT SUMMARY *****						
10 HIGHEST EMISSIONS						
142.00	77.4 Qp	1.1 / 8.9 / 28.3	59.1	V / 1.0 / 180.0	-37.1	-13
284.00	83.6 Qp	1.6 / 12.8 / 28.3	69.7	V / 1.0 / 270.0	-26.5	-13
355.00	66.5 Qp	1.8 / 15.0 / 28.2	55.2	H / 1.0 / 0.0	-41.0	-13
426.00	79.4 Qp	2.0 / 16.9 / 28.1	70.2	H / 2.1 / 270.0	-26.0	-13
497.00	68.4 Qp	2.2 / 17.4 / 28.1	59.9	H / 1.0 / 90.0	-36.3	-13
568.00	67.8 Qp	2.3 / 18.3 / 28.1	60.3	V / 1.2 / 270.0	-35.9	-13
639.00	69.9 Qp	2.5 / 19.8 / 28.0	64.2	V / 1.2 / 0.0	-32.0	-13
710.00	72.5 Qp	2.6 / 20.4 / 28.0	67.5	H / 1.0 / 90.0	-28.7	-13
909.80	71.0 Qp	2.9 / 23.0 / 27.7	69.2	V / 1.5 / 75.0	-27.0	-13
1738.08	55.5 Pk	4.1 / 28.2 / 28.0	59.8	V / 1.0 / 90.0	-36.4	-13

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RADIATED EMISSIONS



Test Report #: NC303065 Run 1 Test Area: OW

EUT Model #: DGVL-436000 Date: 7/1/03

EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C

Test Method: PART 24 Air Pressure: 99.0 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat

Page: 1 of 9

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)	LIMIT (-13dBm)
TX 1930						
30.04 MHz	49.02 Pk	0.5 / 20.8 / 28.3 / 0.0	42.02	V / 1.96 / 15	See	-13
30.63 MHz	42.01 Pk	0.51 / 20.47 / 28.3 / 0.0	34.69	V / 1.96 / 15	Measurement	-13
39.72 MHz	54.78 Pk	0.6 / 16.96 / 28.3 / 0.0	44.04	V / 1.96 / 15	Summary	-13
41.4 MHz	53.71 Pk	0.6 / 16.4 / 28.3 / 0.0	42.41	V / 1.96 / 15	Page 9	-13
48.37 MHz	62.36 Pk	0.7 / 14.2 / 28.3 / 0.0	48.96	V / 1.96 / 15		-13
49.78 MHz	62.68 Pk	0.7 / 13.9 / 28.28 / 0.0	49.0	V / 1.96 / 15		-13
55.93 MHz	52.71 Pk	0.78 / 12.4 / 28.2 / 0.0	37.69	V / 1.96 / 15		-13
59.32 MHz	56.3 Pk	0.73 / 11.7 / 28.2 / 0.0	40.53	V / 1.96 / 15		-13
59.84 MHz	57.59 Pk	0.72 / 11.6 / 28.2 / 0.0	41.71	V / 1.96 / 15		-13
72.025 MHz	68.71 Pk	0.8 / 8.7 / 28.15 / 0.0	50.06	V / 1.96 / 15		-13
72.53 MHz	65.3 Pk	0.8 / 8.6 / 28.16 / 0.0	46.54	V / 1.96 / 15		-13
30.63 MHz	48.78 Pk	0.51 / 20.47 / 28.3 / 0.0	41.46	V / 1.00 / 0		-13
48.37 MHz	63.46 Pk	0.7 / 14.2 / 28.3 / 0.0	50.06	V / 1.00 / 0		-13
49.78 MHz	62.78 Pk	0.7 / 13.9 / 28.28 / 0.0	49.1	V / 1.00 / 0		-13
59.32 MHz	57.56 Pk	0.73 / 11.7 / 28.2 / 0.0	41.79	V / 1.00 / 0		-13
59.84 MHz	58.07 Pk	0.72 / 11.6 / 28.2 / 0.0	42.19	V / 1.00 / 0		-13
72.025 MHz	69.62 Pk	0.8 / 8.7 / 28.15 / 0.0	50.97	V / 1.00 / 0		-13
72.53 MHz	68.52 Pk	0.8 / 8.6 / 28.16 / 0.0	49.76	V / 1.00 / 0		-13
72.82 MHz	61.9 Pk	0.8 / 8.5 / 28.16 / 0.0	43.04	V / 1.00 / 0		-13
74.426 MHz	70.45 Pk	0.8 / 8.1 / 28.2 / 0.0	51.15	V / 1.00 / 0		-13
85.72 MHz	62.52 Pk	0.9 / 7.26 / 28.2 / 0.0	42.48	V / 1.00 / 0		-13
89.73 MHz	72.3 Pk	0.96 / 7.57 / 28.2 / 0.0	52.64	V / 1.00 / 0		-13
91.83 MHz	75.58 Pk	1.0 / 7.78 / 28.2 / 0.0	56.16	V / 1.00 / 0		-13
96.47 MHz	67.78 Pk	1.0 / 8.41 / 28.2 / 0.0	48.99	V / 1.00 / 0		-13
98.08 MHz	62.37 Pk	1.0 / 8.69 / 28.2 / 0.0	43.86	V / 1.00 / 0		-13

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RADIATED EMISSIONS



Test Report #: NC303065 Run 1 Test Area: OW

EUT Model #: DGVL-436000 Date: 7/1/03

EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C

Test Method: PART 24 Air Pressure: 99.0 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat

Page: 2 of 9

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)	LIMIT (-13dBm)
103.13 MHz	50.06 Pk	1.0 / 9.13 / 28.2 / 0.0	31.99	V / 1.00 / 0	See	-13
121.68 MHz	53.18 Pk	1.1 / 9.04 / 28.2 / 0.0	35.12	V / 1.00 / 0	Measurement	-13
141.96 MHz	64.9 Pk	1.13 / 8.88 / 28.3 / 0.0	46.61	V / 1.00 / 0	Summary	-13
148.998 MHz	47.63 Pk	1.2 / 9.9 / 28.3 / 0.0	30.43	V / 1.00 / 0	Page 9	-13
160.43 MHz	61.09 Pk	1.3 / 8.91 / 28.2 / 0.0	43.1	V / 1.00 / 0		-13
164.11 MHz	56.8 Pk	1.3 / 8.75 / 28.2 / 0.0	38.65	V / 1.00 / 0		-13
164.9 MHz	56.85 Pk	1.3 / 8.71 / 28.2 / 0.0	38.66	V / 1.00 / 0		-13
212.96 MHz	72.33 Pk	1.4 / 10.77 / 28.2 / 0.0	56.3	V / 1.00 / 0		-13
218.946 MHz	47.76 Pk	1.4 / 10.92 / 28.2 / 0.0	31.88	V / 1.00 / 0		-13
235.91 MHz	56.36 Pk	1.46 / 11.3 / 28.26 / 0.0	40.86	V / 1.00 / 0		-13
265.37 MHz	53.1 Pk	1.53 / 12.56 / 28.16 / 0.0	39.04	V / 1.00 / 0		-13
284.01 MHz	56.52 Pk	1.63 / 12.8 / 28.27 / 0.0	42.67	V / 1.00 / 0		-13
354.98 MHz	52.63 Pk	1.85 / 15.0 / 28.2 / 0.0	41.28	V / 1.00 / 0		-13
394.91 MHz	42.43 Pk	1.9 / 15.33 / 28.1 / 0.0	31.57	V / 1.00 / 0		-13
426.0 MHz	63.0 Pk	2.0 / 16.9 / 28.09 / 0.0	53.81	V / 1.00 / 0		-13
496.99 MHz	56.94 Pk	2.2 / 17.45 / 28.1 / 0.0	48.49	V / 1.00 / 0		-13
516.028 MHz	36.16 Pk	2.2 / 17.17 / 28.1 / 0.0	27.43	V / 1.00 / 0		-13
567.97 MHz	55.57 Pk	2.33 / 18.32 / 28.1 / 0.0	48.11	V / 1.00 / 0		-13
575.04 MHz	35.93 Pk	2.34 / 18.6 / 28.1 / 0.0	28.77	V / 1.00 / 0		-13
638.97 MHz	51.85 Pk	2.5 / 19.81 / 28.0 / 0.0	46.16	V / 1.00 / 0		-13
709.98 MHz	67.02 Pk	2.65 / 20.36 / 28.0 / 0.0	62.03	V / 1.00 / 0		-13
735.25 MHz	34.17 Pk	2.8 / 21.4 / 28.0 / 0.0	30.37	V / 1.00 / 0		-13
780.96 MHz	51.11 Pk	2.71 / 21.7 / 27.91 / 0.0	47.61	V / 1.00 / 0		-13
851.98 MHz	46.81 Pk	2.9 / 22.3 / 27.7 / 0.0	44.31	V / 1.00 / 0		-13
922.96 MHz	50.01 Pk	2.96 / 23.47 / 27.7 / 0.0	48.73	V / 1.00 / 0		-13
993.99 MHz	46.4 Pk	3.17 / 22.7 / 27.7 / 0.0	44.57	V / 1.00 / 0		-13

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RADIATED EMISSIONS



Test Report #: NC303065 Run 1 Test Area: OW

EUT Model #: DGVL-436000 Date: 7/1/03

EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C

Test Method: PART 24 Air Pressure: 99.0 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat

Page: 3 of 9

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)	LIMIT (-13dBm)
1.065 GHz	45.74 Pk	3.27 / 23.1 / 27.7 / 0.0	44.41	V / 1.00 / 0	See	-13
1.065 GHz	45.36 Pk	3.27 / 23.11 / 27.7 / 0.0	44.03	V / 1.00 / 0	Measurement	-13
1.136 GHz	45.3 Pk	3.23 / 23.9 / 27.7 / 0.0	44.73	V / 1.00 / 0	Summary	-13
1.207 GHz	39.91 Pk	3.34 / 24.04 / 27.71 / 0.0	39.58	V / 1.00 / 0	Page 9	-13
1.278 GHz	47.73 Pk	3.59 / 24.82 / 27.8 / 0.0	48.35	V / 1.00 / 0		-13
1.349 GHz	38.72 Pk	3.6 / 25.76 / 27.87 / 0.0	40.2	V / 1.00 / 0		-13
1.42 GHz	40.46 Pk	3.7 / 26.1 / 27.95 / 0.0	42.31	V / 1.00 / 0		-13
1.491 GHz	44.11 Pk	3.82 / 26.96 / 28.02 / 0.0	46.87	V / 1.00 / 0		-13
1.562 GHz	39.98 Pk	3.89 / 26.8 / 28.09 / 0.0	42.58	V / 1.00 / 0		-13
1.562 GHz	40.94 Pk	3.89 / 26.8 / 28.09 / 0.0	43.54	V / 1.00 / 0		-13
1.633 GHz	41.54 Pk	3.95 / 27.82 / 28.05 / 0.0	45.26	V / 1.00 / 0		-13
1.775 GHz	46.81 Pk	4.21 / 28.4 / 27.93 / 0.0	51.5	V / 1.00 / 0		-13
1.801 GHz	37.23 Pk	4.28 / 28.16 / 27.91 / 0.0	41.76	V / 1.00 / 0		-13
1.816 GHz	38.53 Pk	4.31 / 28.2 / 27.89 / 0.0	43.15	V / 1.00 / 0		-13
1.846 GHz	43.8 Pk	4.36 / 28.5 / 27.82 / 0.0	48.84	V / 1.00 / 0		-13
1.917 GHz	39.73 Pk	4.46 / 29.0 / 27.65 / 0.0	45.54	V / 1.00 / 0		-13
1.776 GHz	44.8 Pk	4.22 / 28.44 / 27.93 / 0.0	49.53	V / 2.50 / 0		-13
1.704 GHz	36.0 Pk	4.04 / 28.46 / 27.99 / 0.0	40.51	V / 2.50 / 0		-13
1.278 GHz	45.85 Pk	3.59 / 24.82 / 27.8 / 0.0	46.46	V / 2.50 / 0		-13
55.93 MHz	53.52 Pk	0.78 / 12.4 / 28.2 / 0.0	38.5	V / 2.50 / 0		-13
85.72 MHz	62.91 Pk	0.9 / 7.26 / 28.2 / 0.0	42.87	V / 2.50 / 0		-13
141.96 MHz	66.59 Pk	1.13 / 8.88 / 28.3 / 0.0	48.3	V / 2.50 / 0		-13
218.946 MHz	48.27 Pk	1.4 / 10.92 / 28.2 / 0.0	32.39	V / 2.50 / 0		-13
354.98 MHz	64.14 Pk	1.85 / 15.0 / 28.2 / 0.0	52.79	V / 2.50 / 0		-13
425.952 MHz	67.41 Pk	2.0 / 16.9 / 28.09 / 0.0	58.22	V / 2.50 / 0		-13
516.028 MHz	36.5 Pk	2.2 / 17.17 / 28.1 / 0.0	27.77	V / 2.50 / 0		-13

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RADIATED EMISSIONS



Test Report #: NC303065 Run 1 Test Area: OW

EUT Model #: DGVL-436000 Date: 7/1/03

EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C

Test Method: PART 24 Air Pressure: 99.0 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat

Page: 4 of 9

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)	LIMIT (-13dBm)
780.96 MHz	52.68 Pk	2.71 / 21.7 / 27.91 / 0.0	49.18	V / 2.50 / 0	See	-13
851.98 MHz	47.22 Pk	2.9 / 22.3 / 27.7 / 0.0	44.72	V / 2.50 / 0	Measurement	-13
1.065 GHz	46.38 Pk	3.27 / 23.11 / 27.7 / 0.0	45.05	V / 2.50 / 0	Summary	-13
1.065 GHz	46.78 Pk	3.27 / 23.11 / 27.7 / 0.0	45.45	V / 2.50 / 0	Page 9	-13
1.207 GHz	40.07 Pk	3.34 / 24.04 / 27.71 / 0.0	39.74	V / 2.50 / 0		-13
1.349 GHz	39.11 Pk	3.6 / 25.76 / 27.87 / 0.0	40.59	V / 2.50 / 0		-13
1.42 GHz	40.56 Pk	3.7 / 26.1 / 27.95 / 0.0	42.41	V / 2.50 / 0		-13
1.562 GHz	42.19 Pk	3.89 / 26.8 / 28.09 / 0.0	44.79	V / 2.50 / 0		-13
1.562 GHz	41.88 Pk	3.89 / 26.8 / 28.09 / 0.0	44.48	V / 2.50 / 0		-13
1.704 GHz	40.06 Pk	4.04 / 28.46 / 27.99 / 0.0	44.57	V / 2.50 / 0		-13
1.801 GHz	38.25 Pk	4.28 / 28.16 / 27.91 / 0.0	42.78	V / 2.50 / 0		-13
1.816 GHz	39.37 Pk	4.31 / 28.2 / 27.89 / 0.0	43.99	V / 2.50 / 0		-13
55.93 MHz	54.42 Pk	0.78 / 12.4 / 28.2 / 0.0	39.4	V / 2.50 / 90		-13
72.82 MHz	65.78 Pk	0.8 / 8.5 / 28.16 / 0.0	46.92	V / 2.50 / 90		-13
85.72 MHz	71.2 Pk	0.9 / 7.26 / 28.2 / 0.0	51.16	V / 2.50 / 90		-13
89.73 MHz	76.43 Pk	0.96 / 7.57 / 28.2 / 0.0	56.77	V / 2.50 / 90		-13
96.47 MHz	69.08 Pk	1.0 / 8.41 / 28.2 / 0.0	50.29	V / 2.50 / 90		-13
141.96 MHz	70.09 Pk	1.13 / 8.88 / 28.3 / 0.0	51.8	V / 2.50 / 90		-13
212.96 MHz	72.94 Pk	1.4 / 10.77 / 28.2 / 0.0	56.91	V / 2.50 / 90		-13
1.065 GHz	41.94 Pk	3.27 / 23.11 / 27.7 / 0.0	40.61	V / 2.50 / 90		-13
1.207 GHz	40.85 Pk	3.34 / 24.04 / 27.71 / 0.0	40.52	V / 2.50 / 90		-13
1.349 GHz	42.5 Pk	3.6 / 25.76 / 27.87 / 0.0	43.98	V / 2.50 / 90		-13
1.42 GHz	40.69 Pk	3.7 / 26.1 / 27.95 / 0.0	42.54	V / 2.50 / 90		-13
39.72 MHz	55.45 Pk	0.6 / 16.96 / 28.3 / 0.0	44.71	V / 1.00 / 90		-13
59.84 MHz	59.34 Pk	0.72 / 11.6 / 28.2 / 0.0	43.46	V / 1.00 / 90		-13
72.025 MHz	71.16 Pk	0.8 / 8.7 / 28.15 / 0.0	52.51	V / 1.00 / 90		-13

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RADIATED EMISSIONS



Test Report #: NC303065 Run 1 Test Area: OW

EUT Model #: DGVL-436000 Date: 7/1/03

EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C

Test Method: PART 24 Air Pressure: 99.0 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat

Page: 5 of 9

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)	LIMIT (-13dBm)
72.53 MHz	70.5 Pk	0.8 / 8.6 / 28.16 / 0.0	51.74	V / 1.00 / 90	See	-13
74.426 MHz	70.57 Pk	0.8 / 8.1 / 28.2 / 0.0	51.27	V / 1.00 / 90	Measurement	-13
89.73 MHz	78.81 Pk	0.96 / 7.57 / 28.2 / 0.0	59.15	V / 1.00 / 90	Summary	-13
91.83 MHz	76.22 Pk	1.0 / 7.78 / 28.2 / 0.0	56.8	V / 1.00 / 90	Page 9	-13
103.13 MHz	54.42 Pk	1.0 / 9.13 / 28.2 / 0.0	36.35	V / 1.00 / 90		-13
141.96 MHz	72.05 Pk	1.13 / 8.88 / 28.3 / 0.0	53.76	V / 1.00 / 90		-13
148.998 MHz	53.51 Pk	1.2 / 9.9 / 28.3 / 0.0	36.31	V / 1.00 / 90		-13
160.43 MHz	65.17 Pk	1.3 / 8.91 / 28.2 / 0.0	47.18	V / 1.00 / 90		-13
164.11 MHz	62.26 Pk	1.3 / 8.75 / 28.2 / 0.0	44.11	V / 1.00 / 90		-13
164.9 MHz	61.82 Pk	1.3 / 8.71 / 28.2 / 0.0	43.63	V / 1.00 / 90		-13
212.96 MHz	77.36 Pk	1.4 / 10.77 / 28.2 / 0.0	61.33	V / 1.00 / 90		-13
218.946 MHz	54.16 Pk	1.4 / 10.92 / 28.2 / 0.0	38.28	V / 1.00 / 90		-13
265.37 MHz	53.81 Pk	1.53 / 12.56 / 28.16 / 0.0	39.75	V / 1.00 / 90		-13
284.01 MHz	60.53 Pk	1.63 / 12.8 / 28.27 / 0.0	46.68	V / 1.00 / 90		-13
425.952 MHz	78.96 Pk	2.0 / 16.9 / 28.09 / 0.0	69.77	V / 1.00 / 90		-13
496.99 MHz	60.78 Pk	2.2 / 17.45 / 28.1 / 0.0	52.33	V / 1.00 / 90		-13
638.97 MHz	56.88 Pk	2.5 / 19.81 / 28.0 / 0.0	51.19	V / 1.00 / 90		-13
993.99 MHz	48.2 Pk	3.17 / 22.7 / 27.7 / 0.0	46.37	V / 1.00 / 90		-13
1.065 GHz	44.8 Pk	3.27 / 23.11 / 27.7 / 0.0	43.47	V / 1.00 / 90		-13
1.207 GHz	46.48 Pk	3.34 / 24.04 / 27.71 / 0.0	46.15	V / 1.00 / 90		-13
1.349 GHz	45.23 Pk	3.6 / 25.76 / 27.87 / 0.0	46.71	V / 1.00 / 90		-13
1.42 GHz	43.35 Pk	3.7 / 26.1 / 27.95 / 0.0	45.2	V / 1.00 / 90		-13
1.633 GHz	43.1 Pk	3.95 / 27.82 / 28.05 / 0.0	46.82	V / 1.00 / 90		-13
1.801 GHz	39.14 Pk	4.28 / 28.16 / 27.91 / 0.0	43.67	V / 1.00 / 90		-13
72.53 MHz	70.52 Pk	0.8 / 8.6 / 28.16 / 0.0	51.76	V / 1.00 / 180		-13
74.426 MHz	71.0 Pk	0.8 / 8.1 / 28.2 / 0.0	51.7	V / 1.00 / 180		-13

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RADIATED EMISSIONS



Test Report #: NC303065 Run 1 Test Area: OW

EUT Model #: DGVL-436000 Date: 7/1/03

EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C

Test Method: PART 24 Air Pressure: 99.0 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat

Page: 6 of 9

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)	LIMIT (-13dBm)
121.68 MHz	53.46 Pk	1.1 / 9.04 / 28.2 / 0.0	35.4	V / 1.00 / 180	See	-13
148.998 MHz	55.01 Pk	1.2 / 9.9 / 28.3 / 0.0	37.81	V / 1.00 / 180	Measurement	-13
265.37 MHz	56.43 Pk	1.53 / 12.56 / 28.16 / 0.0	42.37	V / 1.00 / 180	Summary	-13
516.028 MHz	38.35 Pk	2.2 / 17.17 / 28.1 / 0.0	29.62	V / 1.00 / 180	Page 9	-13
575.04 MHz	36.11 Pk	2.34 / 18.6 / 28.1 / 0.0	28.95	V / 1.00 / 180		-13
709.98 MHz	67.14 Pk	2.65 / 20.36 / 28.0 / 0.0	62.15	V / 1.00 / 180		-13
1.065 GHz	45.38 Pk	3.27 / 23.11 / 27.7 / 0.0	44.05	V / 1.00 / 180		-13
1.207 GHz	49.92 Pk	3.34 / 24.04 / 27.71 / 0.0	49.59	V / 1.00 / 180		-13
1.278 GHz	46.69 Pk	3.59 / 24.82 / 27.8 / 0.0	47.3	V / 1.00 / 180		-13
1.349 GHz	45.46 Pk	3.6 / 25.76 / 27.87 / 0.0	46.94	V / 1.00 / 180		-13
1.42 GHz	43.73 Pk	3.7 / 26.1 / 27.95 / 0.0	45.58	V / 1.00 / 180		-13
1.491 GHz	47.79 Pk	3.82 / 26.96 / 28.02 / 0.0	50.55	V / 1.00 / 180		-13
1.562 GHz	44.43 Pk	3.89 / 26.8 / 28.09 / 0.0	47.03	V / 1.00 / 180		-13
1.562 GHz	44.17 Pk	3.89 / 26.8 / 28.09 / 0.0	46.77	V / 1.00 / 180		-13
1.633 GHz	43.3 Pk	3.95 / 27.82 / 28.05 / 0.0	47.02	V / 1.00 / 180		-13
1.704 GHz	40.16 Pk	4.04 / 28.46 / 27.99 / 0.0	44.67	V / 1.00 / 180		-13
1.816 GHz	39.76 Pk	4.31 / 28.2 / 27.89 / 0.0	44.38	V / 1.00 / 180		-13
103.13 MHz	54.52 Pk	1.0 / 9.13 / 28.2 / 0.0	36.45	V / 2.50 / 180		-13
121.68 MHz	53.52 Pk	1.1 / 9.04 / 28.2 / 0.0	35.46	V / 2.50 / 180		-13
1.065 GHz	44.31 Pk	3.27 / 23.11 / 27.7 / 0.0	42.98	V / 2.50 / 180		-13
1.491 GHz	49.28 Pk	3.82 / 26.96 / 28.02 / 0.0	52.04	V / 2.50 / 180		-13
1.562 GHz	44.7 Pk	3.89 / 26.8 / 28.09 / 0.0	47.3	V / 2.50 / 180		-13
1.562 GHz	45.1 Pk	3.89 / 26.8 / 28.09 / 0.0	47.7	V / 2.50 / 180		-13
1.704 GHz	41.31 Pk	4.04 / 28.46 / 27.99 / 0.0	45.82	V / 2.50 / 180		-13
283.962 MHz	69.4 Pk	1.63 / 12.8 / 28.27 / 0.0	55.55	V / 2.50 / 270		-13
141.96 MHz	74.4 Pk	1.13 / 8.88 / 28.3 / 0.0	56.11	V / 1.00 / 270		-13

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RADIATED EMISSIONS



Test Report #: NC303065 Run 1 Test Area: OW

EUT Model #: DGVL-436000 Date: 7/1/03

EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C

Test Method: PART 24 Air Pressure: 99.0 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat

Page: 7 of 9

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)	LIMIT (-13dBm)
851.98 MHz	55.9 Pk	2.9 / 22.3 / 27.7 / 0.0	53.4	V / 1.00 / 270	See	-13
425.89 MHz	79.3 Pk	2.0 / 16.9 / 28.09 / 0.0	70.11	V / 1.10 / 100	Measurement	-13
425.962 MHz	81.75 Pk	2.0 / 16.9 / 28.09 / 0.0	72.56	H / 1.00 / 120	Summary	-13
235.91 MHz	58.43 Pk	1.46 / 11.3 / 28.26 / 0.0	42.93	H / 1.00 / 0	Page 9	-13
265.37 MHz	58.35 Pk	1.53 / 12.56 / 28.16 / 0.0	44.29	H / 1.00 / 0		-13
283.962 MHz	76.92 Pk	1.63 / 12.8 / 28.27 / 0.0	63.07	H / 1.00 / 0		-13
354.98 MHz	72.98 Pk	1.85 / 15.0 / 28.2 / 0.0	61.63	H / 1.00 / 0		-13
709.98 MHz	67.76 Pk	2.65 / 20.36 / 28.0 / 0.0	62.77	H / 1.00 / 0		-13
780.96 MHz	56.98 Pk	2.71 / 21.7 / 27.91 / 0.0	53.48	H / 1.00 / 0		-13
1.065 GHz	43.36 Pk	3.27 / 23.11 / 27.7 / 0.0	42.03	H / 1.00 / 0		-13
1.278 GHz	46.85 Pk	3.59 / 24.82 / 27.8 / 0.0	47.46	H / 1.00 / 0		-13
1.917 GHz	40.1 Pk	4.46 / 29.0 / 27.65 / 0.0	45.91	H / 1.00 / 0		-13
1.065 GHz	41.38 Pk	3.27 / 23.11 / 27.7 / 0.0	40.05	H / 2.50 / 0		-13
638.97 MHz	61.35 Pk	2.5 / 19.81 / 28.0 / 0.0	55.66	H / 2.50 / 90		-13
993.93 MHz	50.45 Pk	3.17 / 22.7 / 27.7 / 0.0	48.62	H / 2.50 / 180		-13
567.97 MHz	57.75 Pk	2.33 / 18.32 / 28.1 / 0.0	50.29	H / 1.00 / 180		-13
1.065 GHz	52.6 Pk	3.27 / 23.11 / 27.7 / 0.0	51.27	H / 1.00 / 180		-13
496.961 MHz	65.05 Pk	2.2 / 17.45 / 28.1 / 0.0	56.6	H / 1.00 / 270		-13
NO HIGHER LEVELS FOR TX 1940 OR TX 1950						
SCAN COMPLETE 30MHZ TO 1 GHZ 360 DEGREES V/H 1-4 METERS						
TX 1930						
2.019 GHz	47.0 Pk	0.0 / 0.0 / 0.0 / 0.0	0.0	V / 2.00 / 15		-13
2.019 GHz	47.0 Pk	4.67 / 29.64 / 27.54 / 0.0	53.77	V / 2.00 / 15		-13
2.13 GHz	34.9 Pk	5.0 / 29.89 / 27.47 / 0.0	42.32	V / 2.00 / 15		-13
2.342 GHz	36.6 Pk	5.19 / 30.35 / 27.33 / 0.0	44.81	V / 2.00 / 15		-13
2.556 GHz	35.8 Pk	5.3 / 30.79 / 27.5 / 0.0	44.39	V / 2.00 / 15		-13

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Test Report #: NC303065 Run 1 Test Area: OW
EUT Model #: DGVL-436000 Date: 7/1/03
EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C
Test Method: PART 24 Air Pressure: 99.0 kPa
Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat

Page: 8 of 9

List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)	LIMIT (-13dBm)
2.84 GHz	35.2 Pk	5.75 / 31.24 / 27.55 / 0.0	44.64	V / 2.00 / 15		-13
TX 1950						
2.343 GHz	32.75 Pk	5.19 / 30.35 / 27.33 / 0.0	40.96	H / 1.90 / 300		-13
SCAN COMPLETE 360 DEGREES V/H 1-4 METERS						
TX 1940 HAD NO HIGHER LEVELS						
6.057 GHz	54.65 Pk	9.88 / 36.75 / 41.11 / 0.0	60.17	V / 1.20 / 10		-13
4.038 GHz	56.5 Pk	6.87 / 34.15 / 40.74 / 0.0	56.78	V / 1.20 / 290		-13
6.057 GHz	56.75 Pk	9.88 / 36.75 / 41.11 / 0.0	62.27	H / 1.20 / 300		-13
no emission were detected 8-18GHZ V/H 360 DEGREES 1-4 METERS						
scan complete 30mhz-18ghz V/H 360 DEGREES 1-4 METERS						

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RADIATED EMISSIONS



Test Report #: NC303065 Run 1 Test Area: OW

EUT Model #: DGVL-436000 Date: 7/1/03

EUT Serial #: _____ EUT Power: 40VDC Temperature: 22.0 °C

Test Method: PART 24 Air Pressure: 99.0 kPa

Customer: ADC TELECOMMUNICATIONS Rel. Humidity: 46.0 %

EUT Description: PCS AD SYSTEM

Notes: AD SYSTEM

Data File Name: 3065-04.dat Page: 9 of 9

Measurement summary for limit1: EN 55011 B Grp 1 10 m (Qp)

10 Highest Emissions : LIMIT is -13 dBm

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	Erp (dBm)
89.73 MHz	78.81 Pk	0.96 / 7.57 / 28.2 / 0.0	59.15	V / 1.00 / 90	-37.05
91.83 MHz	76.22 Pk	1.0 / 7.78 / 28.2 / 0.0	56.8	V / 1.00 / 90	-39.4
141.96 MHz	74.4 Pk	1.13 / 8.88 / 28.3 / 0.0	56.11	V / 1.00 / 270	-40.09
212.96 MHz	77.36 Pk	1.4 / 10.77 / 28.2 / 0.0	61.33	V / 1.00 / 90	-34.87
283.962 MHz	76.92 Pk	1.63 / 12.8 / 28.27 / 0.0	63.07	H / 1.00 / 0	-33.13
354.98 MHz	72.98 Pk	1.85 / 15.0 / 28.2 / 0.0	61.63	H / 1.00 / 0	-34.57
425.962 MHz	81.75 Pk	2.0 / 16.9 / 28.09 / 0.0	72.56	H / 1.00 / 120	-23.64
496.961 MHz	65.05 Pk	2.2 / 17.45 / 28.1 / 0.0	56.6	H / 1.00 / 270	-39.6
638.97 MHz	61.35 Pk	2.5 / 19.81 / 28.0 / 0.0	55.66	H / 2.50 / 90	-40.54
709.98 MHz	67.76 Pk	2.65 / 20.36 / 28.0 / 0.0	62.77	H / 1.00 / 0	-33.43

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