

Software Defined Radio

Software Test 4

B Band - Channel 217

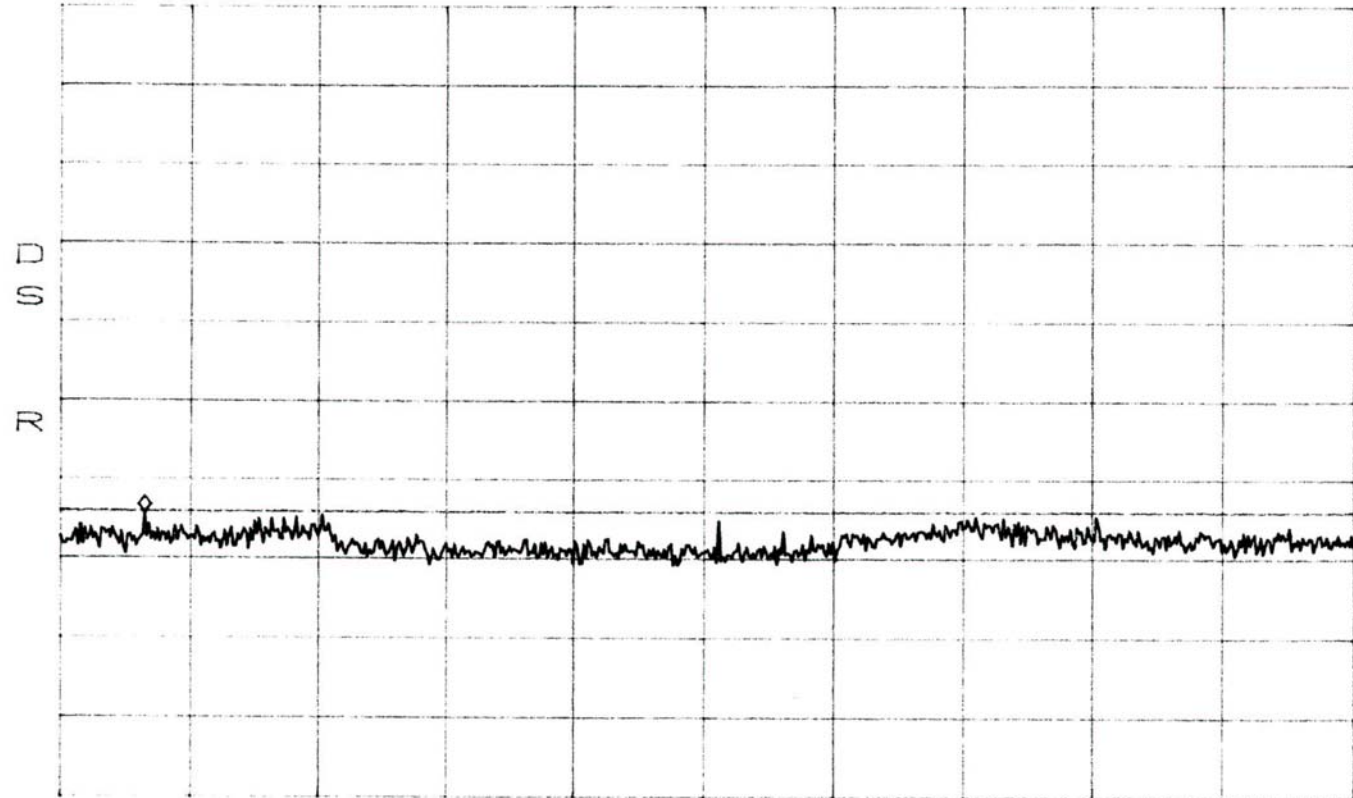
ATTEN 30dB

RL 51.0dBm

MKR -13.17dBm

10dB/

1.585GHz



START 1.000GHz

STOP 10.000GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 180ms

**Software Test 5 for  
Digivance 800 MHz 50-Watt SDR System  
Model Numbers DGV5-112710SYS and DGV5-122710SYS**

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10<sup>th</sup> harmonic of the highest carrier frequency. The Software Test 5 simulates the GSM signal created from a repeated sequence with 1 timeslot of valid traffic channel data and the remaining 7 timeslots filled with dummy bursts.

**Results:**

Pass (see plots)

Software Defined Radio

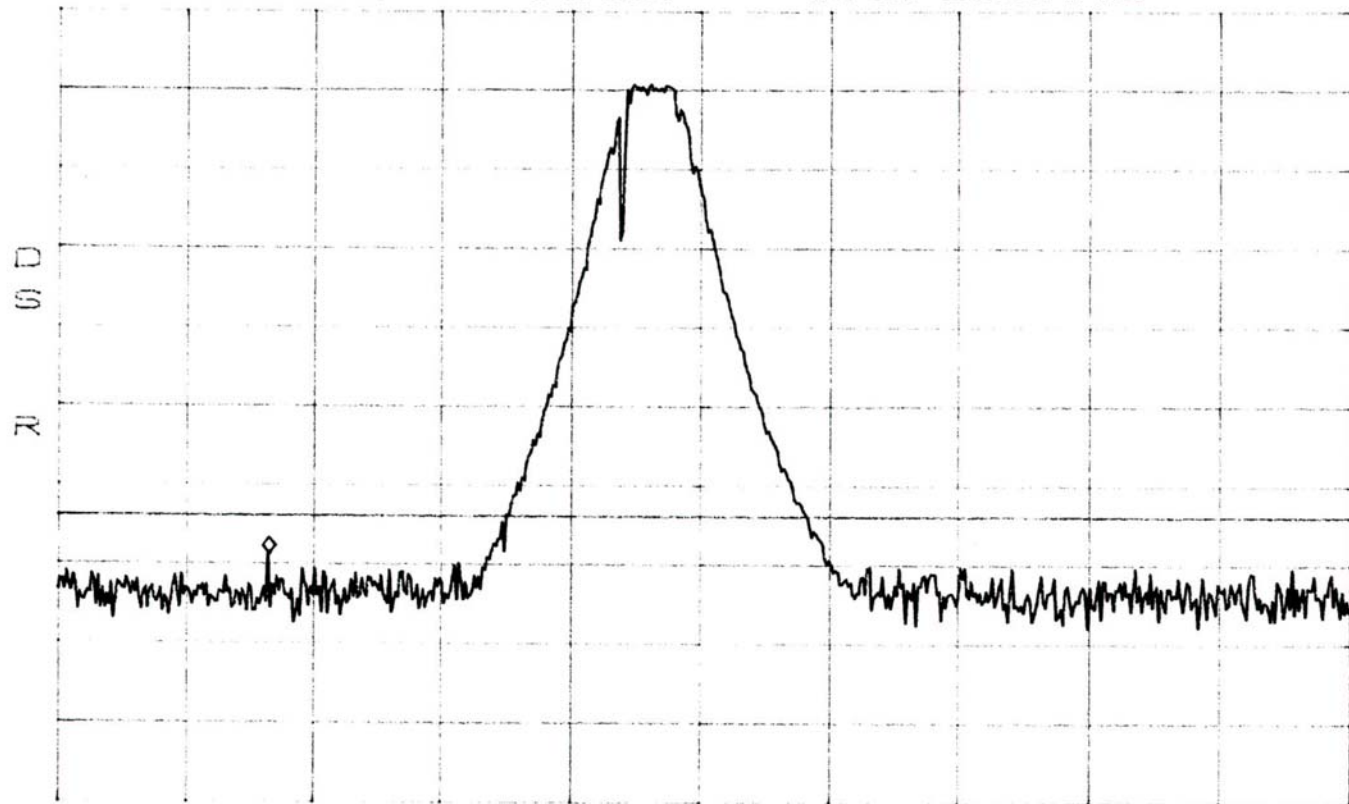
Software Test 5

A Band - Channel 181

\*ATTEN 30dB  
RL 51.0dBm

10dB/

MKR -17.67dBm  
878.325MHz



CENTER 880.000MHz

SPAN 5.000MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

Software Defined Radio

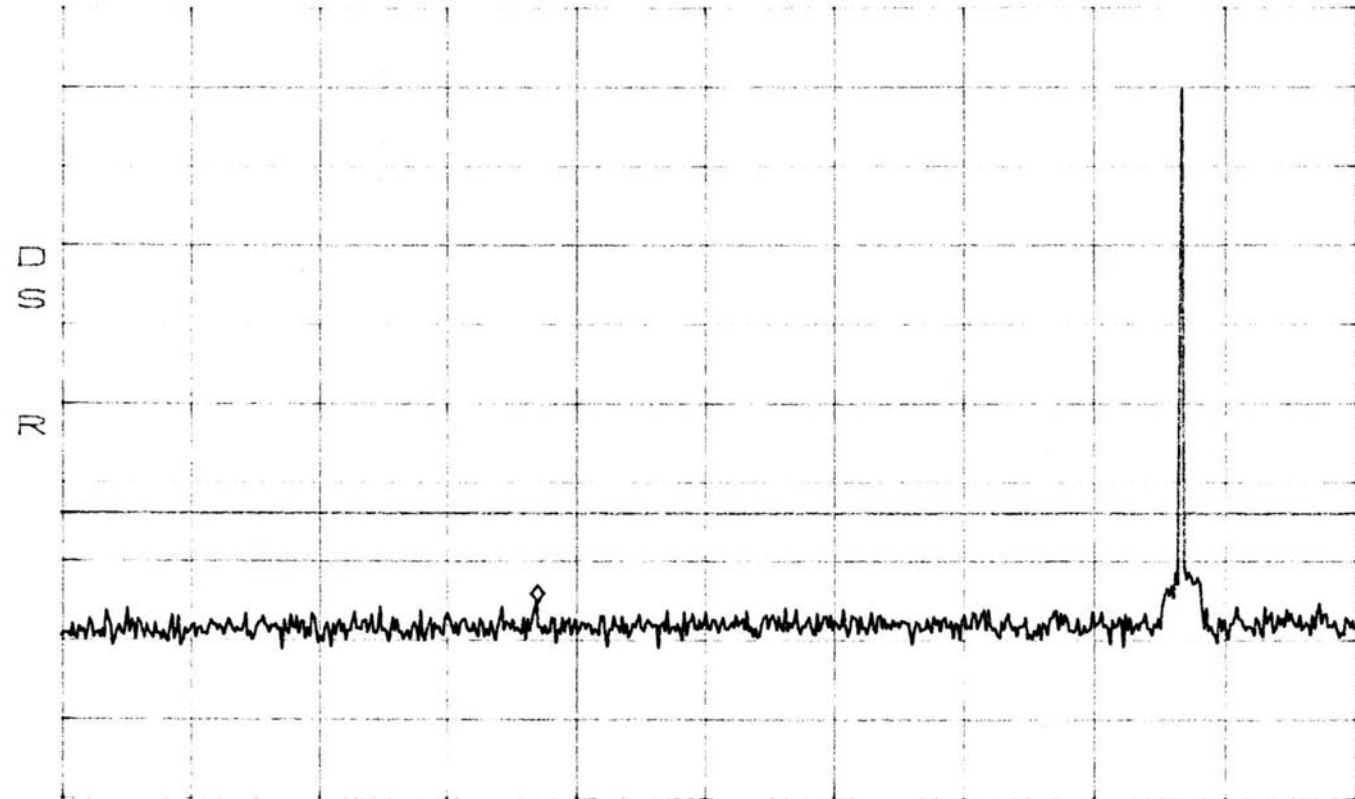
Software Test 5

A Band - Channel 181

\*ATTEN 30dB  
RL 51.0dBm

10dB/

MKR -24.00dBm  
388.9MHz



START 30.0MHz STOP 1.0000GHz  
\*RBW 100kHz VBW 100kHz SWP 250ms

Software Defined Radio

Software Test 5

A Band - Channel 181

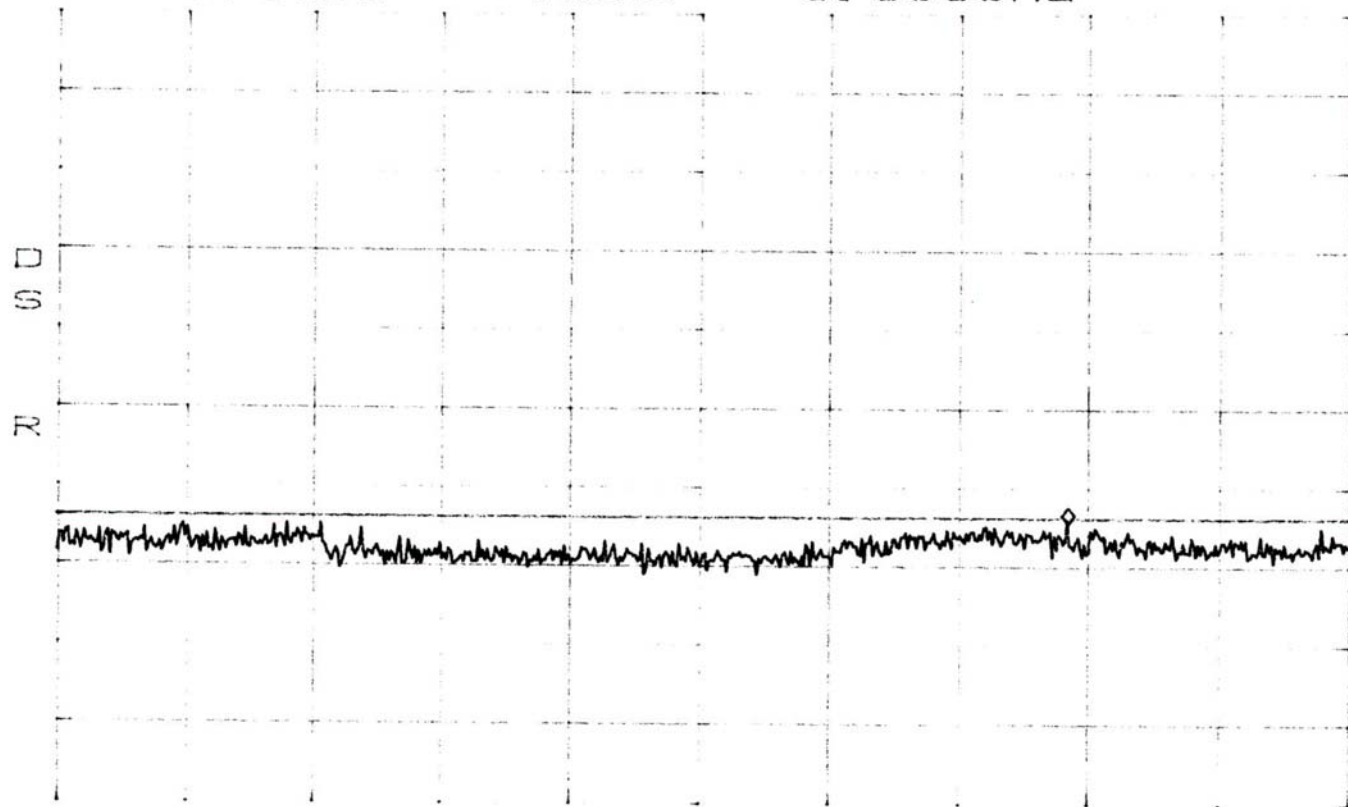
\*ATTEN 30dB

RL 51.0dBm

10dB/

MKR -13.33dBm

8.065GHz



START 1.000GHz

STOP 10.000GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 180ms

Software Defined Radio

Software Test 5

B Band - Channel 217

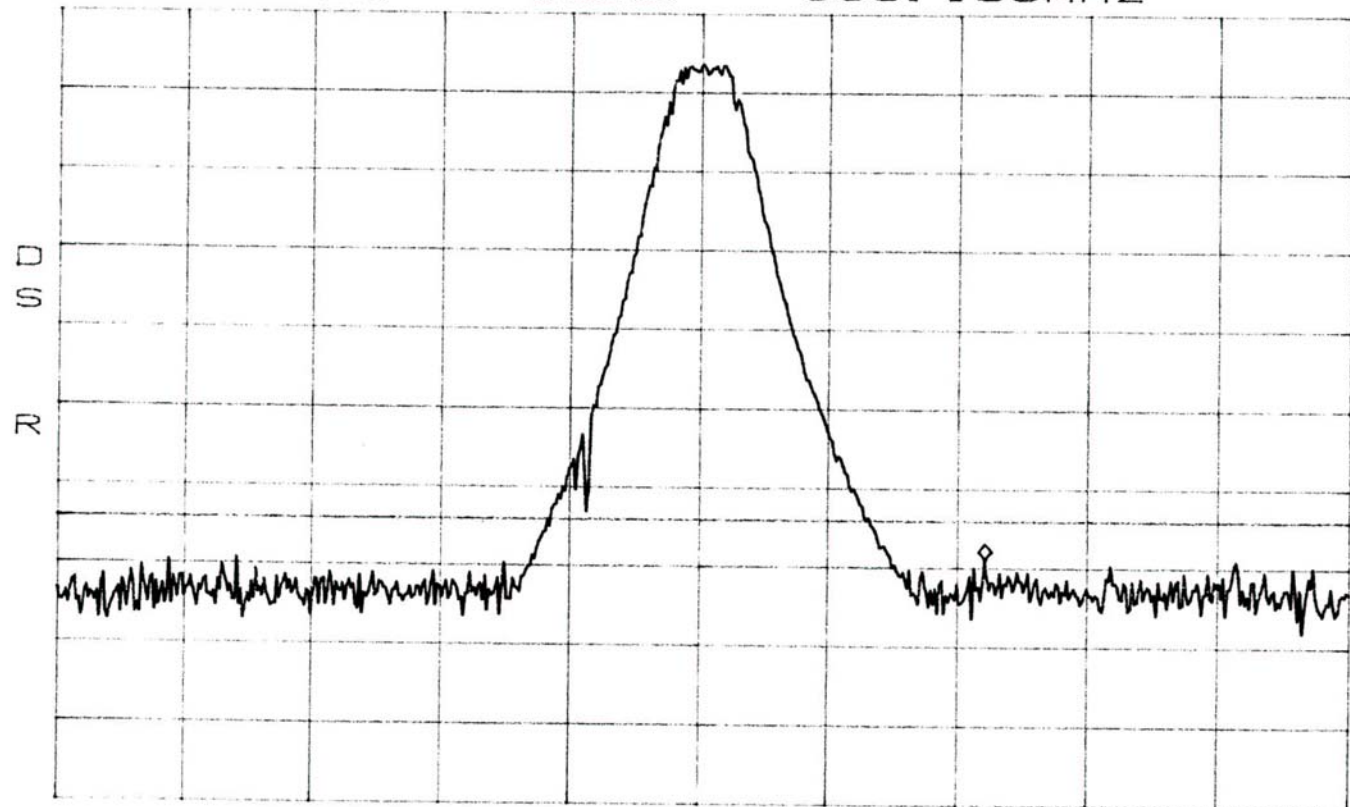
\*ATTEN 30dB

RL 51.0dBm

MKR -17.83dBm

10dB/

888.108MHz



CENTER 887.000MHz

SPAN 5.000MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

Software Defined Radio

Software Test 5

B Band - Channel 217

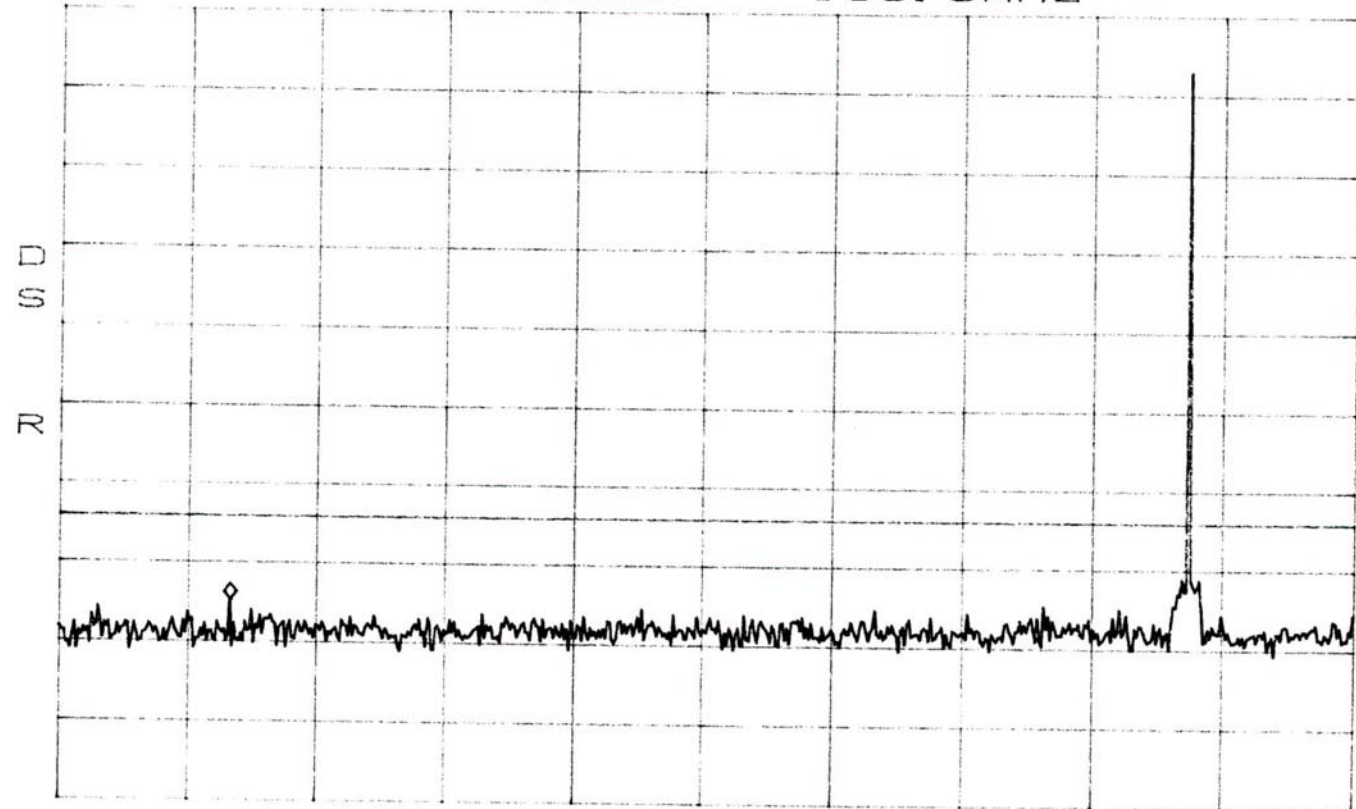
\*ATTEN 30dB

RL 51.0dBm

10dB/

MKR -23.67dBm

159.3MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms



Software Defined Radio

Software Test 5

B Band - Channel 217

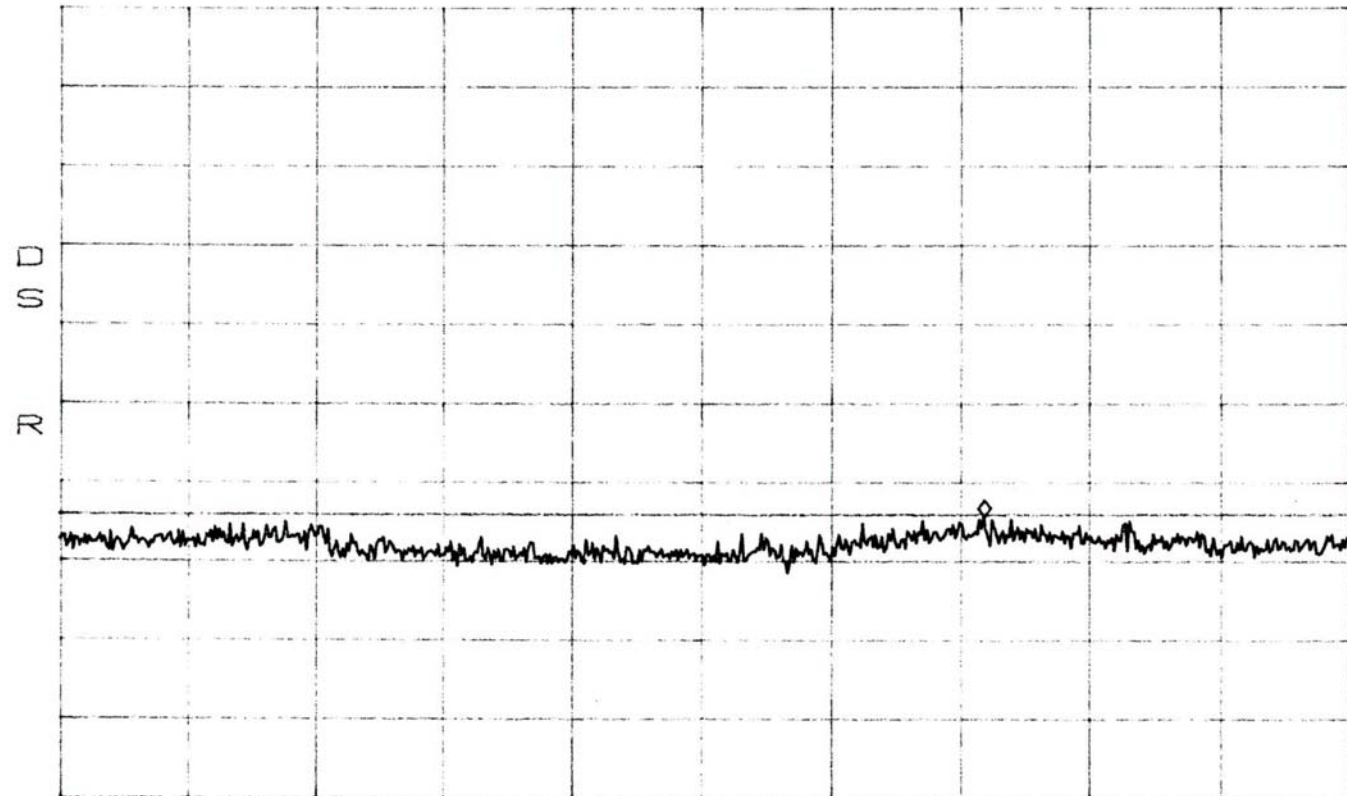
\*ATTEN 30dB

RL 51.0dBm

MKR -13.17dBm

10dB/

7.465GHz



START 1.000GHz

STOP 10.000GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 180ms



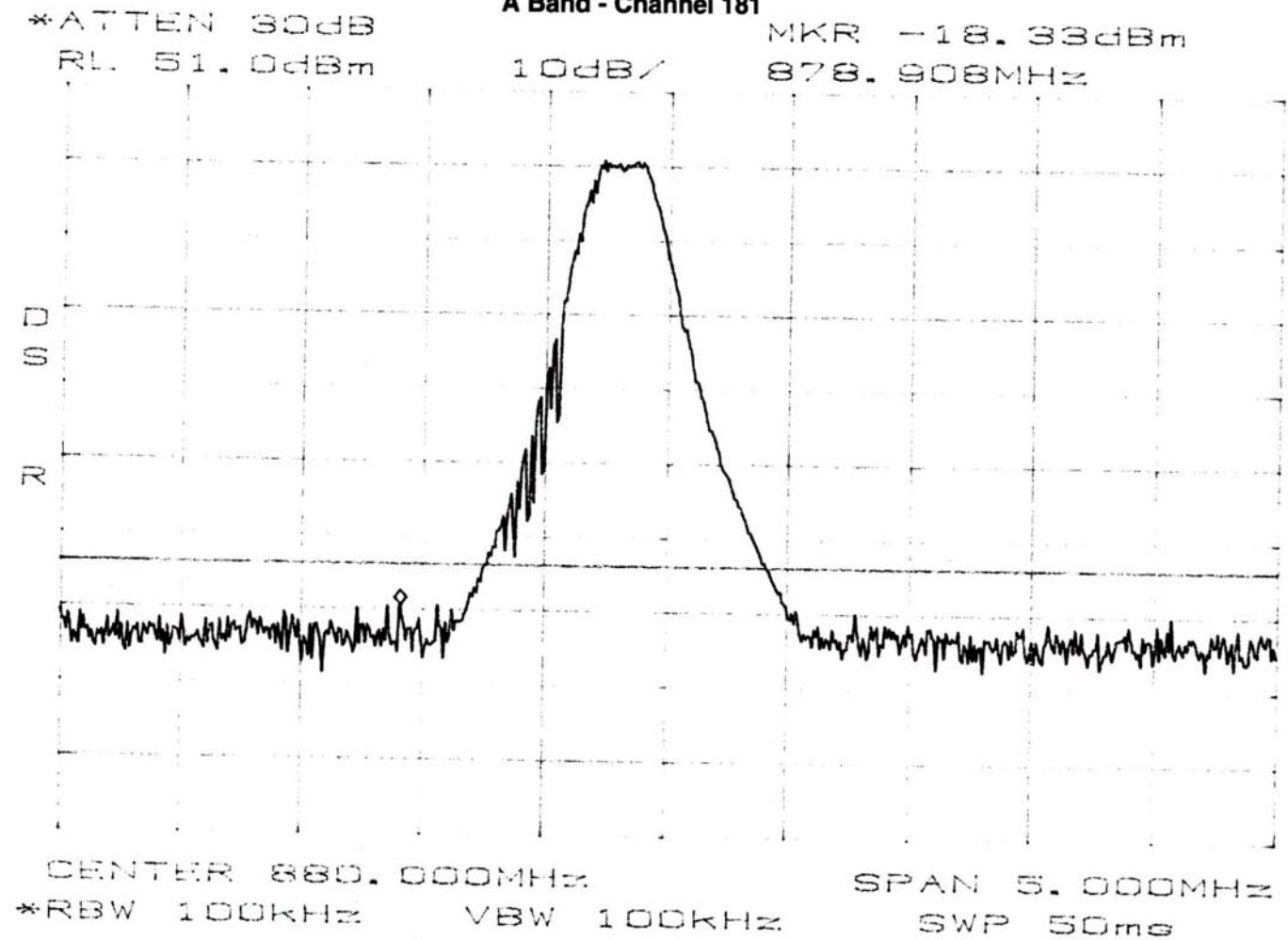
**Software Test 6 for  
Digivance 800 MHz 50-Watt SDR System  
Model Numbers DGVs-112710SYS and DGVs-122710SYS**

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10<sup>th</sup> harmonic of the highest carrier frequency. The Software Test 6 simulates the GSM signal created from a repeated sequence with 4 timeslots of valid traffic channel data and the remaining 4 timeslots filled with dummy bursts.

**Results:**

Pass (see plots)

Software Defined Radio  
Software Test 6  
A Band - Channel 181



Software Defined Radio

Software Test 6

A Band - Channel 181

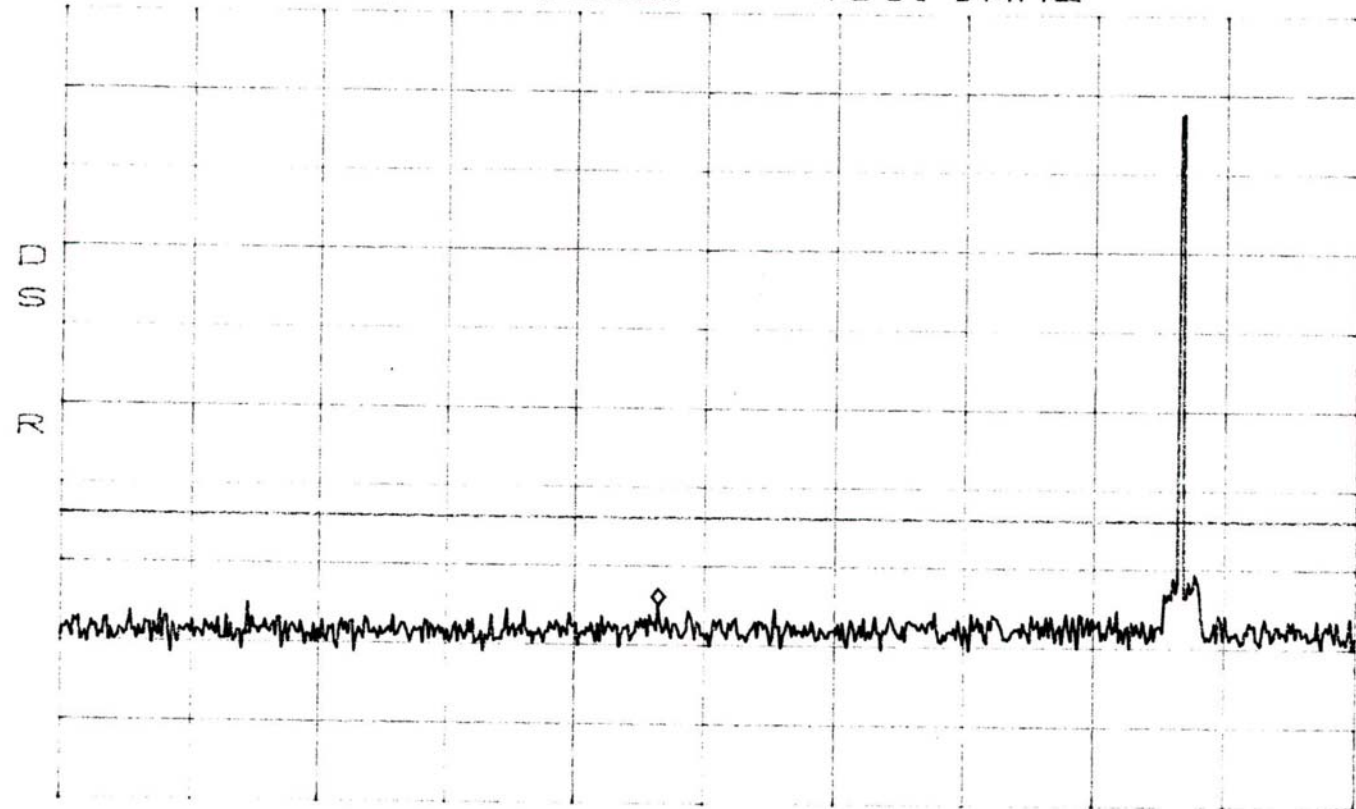
\*ATTEN 30dB

RL 51.0dBm

MKR -23.83dBm

10dB/

481.1MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

Software Defined Radio

Software Test 6

A Band - Channel 181

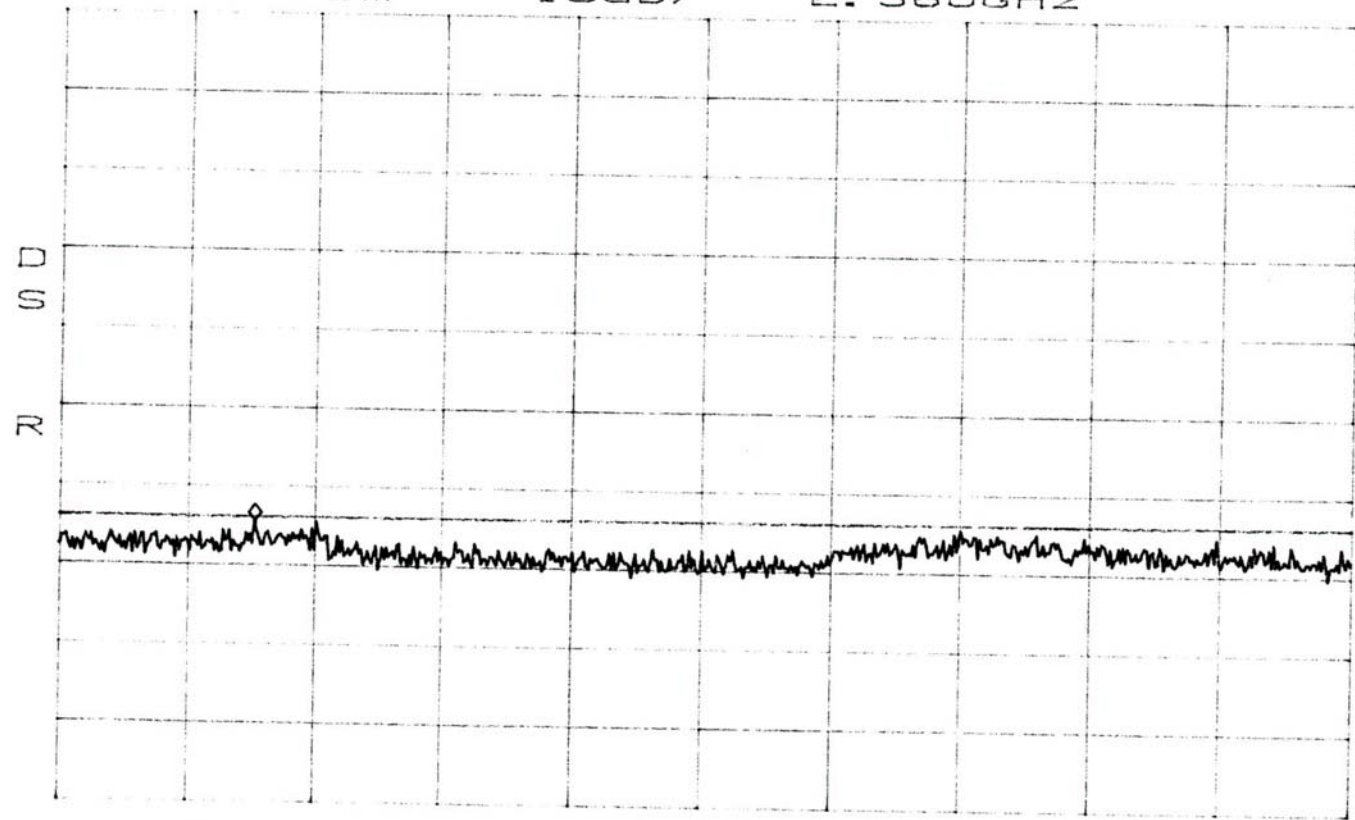
\*ATTEN 30dB

RL 51.0dBm

MKR -13.33dBm

10dB/

2.380GHz



START 1.000GHz

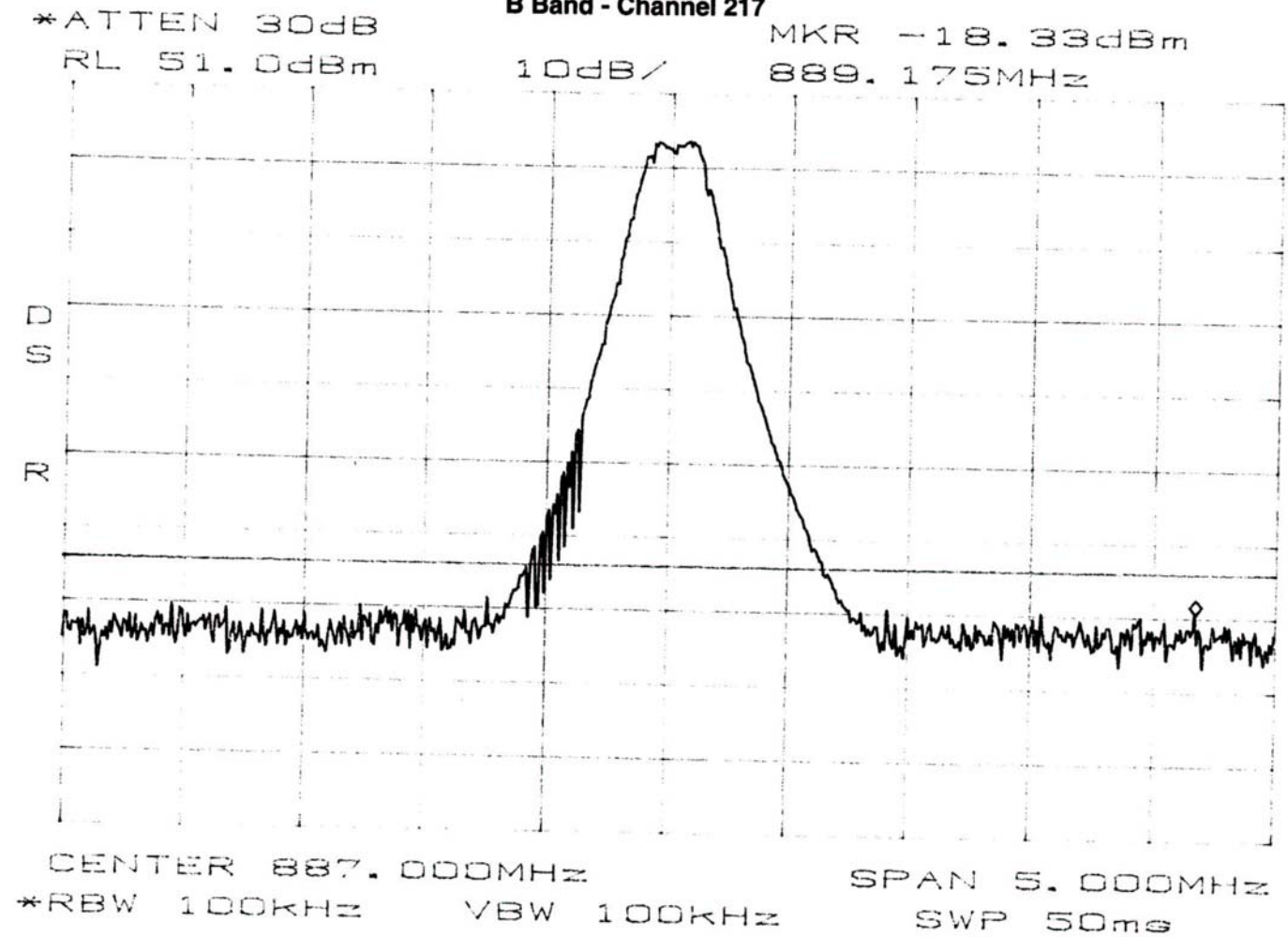
STOP 10.000GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 180ms

Software Defined Radio  
Software Test 6  
B Band - Channel 217



Software Defined Radio

Software Test 6

B Band - Channel 217

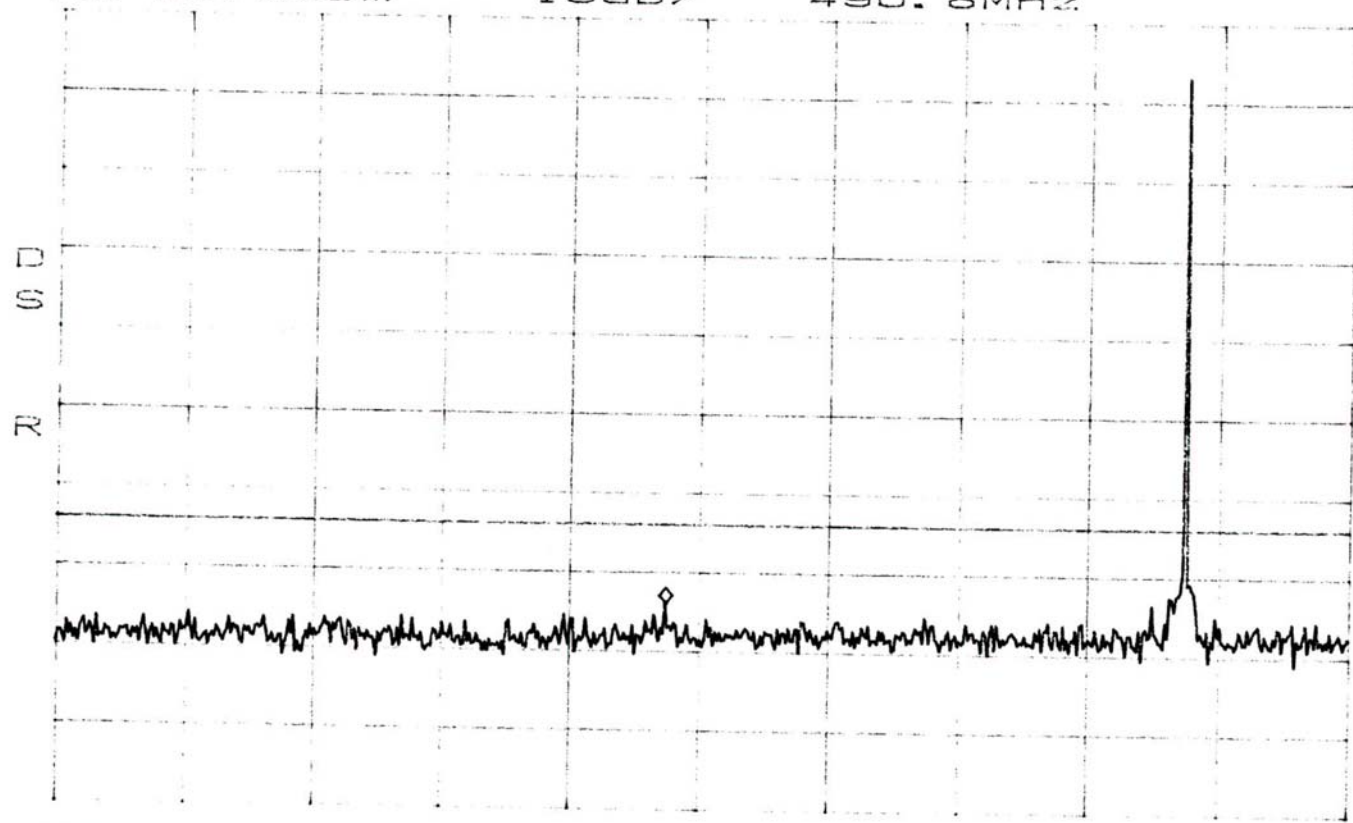
\*ATTEN 30dB

RL 51.0dBm

MKR -22.83dBm

10dB/

490.8MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

Software Defined Radio

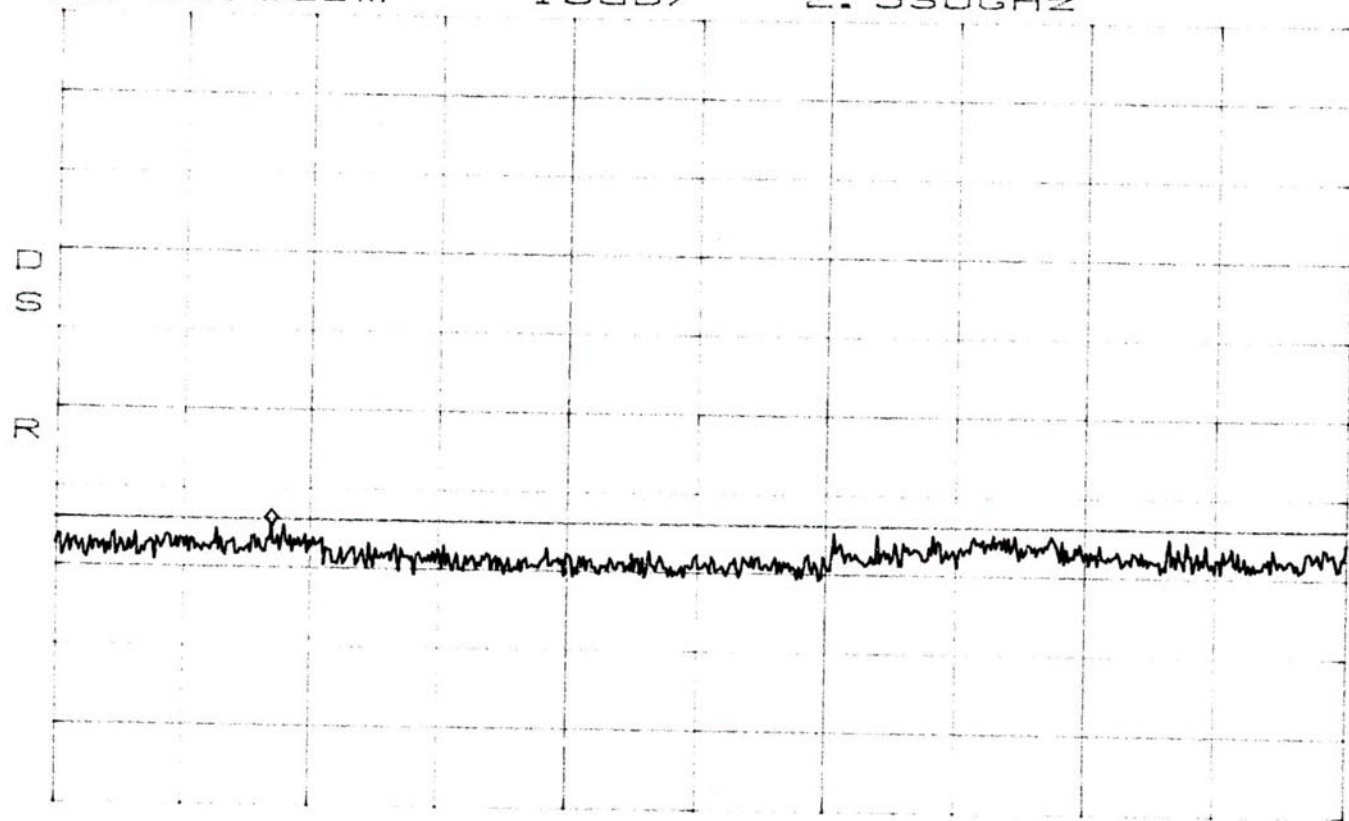
Software Test 6

B Band - Channel 217

\*ATTEN 30dB  
RL 51.0dBm

10dB/

MKR -13.50dBm  
2.530GHz



START 1.000GHz

STOP 10.000GHz

RBW 1.0MHz

VBW 1.0MHz

SWP 180ms



**Software Test 7 for  
Digivance 800 MHz 50-Watt SDR System  
Model Numbers DGVs-112710SYS and DGVs-122710SYS**

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10<sup>th</sup> harmonic of the highest carrier frequency. The Software Test 7 simulates the GSM signal created from a repeated sequence with 8 timeslots of valid traffic channel data.

**Results:**

Pass (see plots)

Software Defined Radio

Software Test 7

A Band - Channel 181

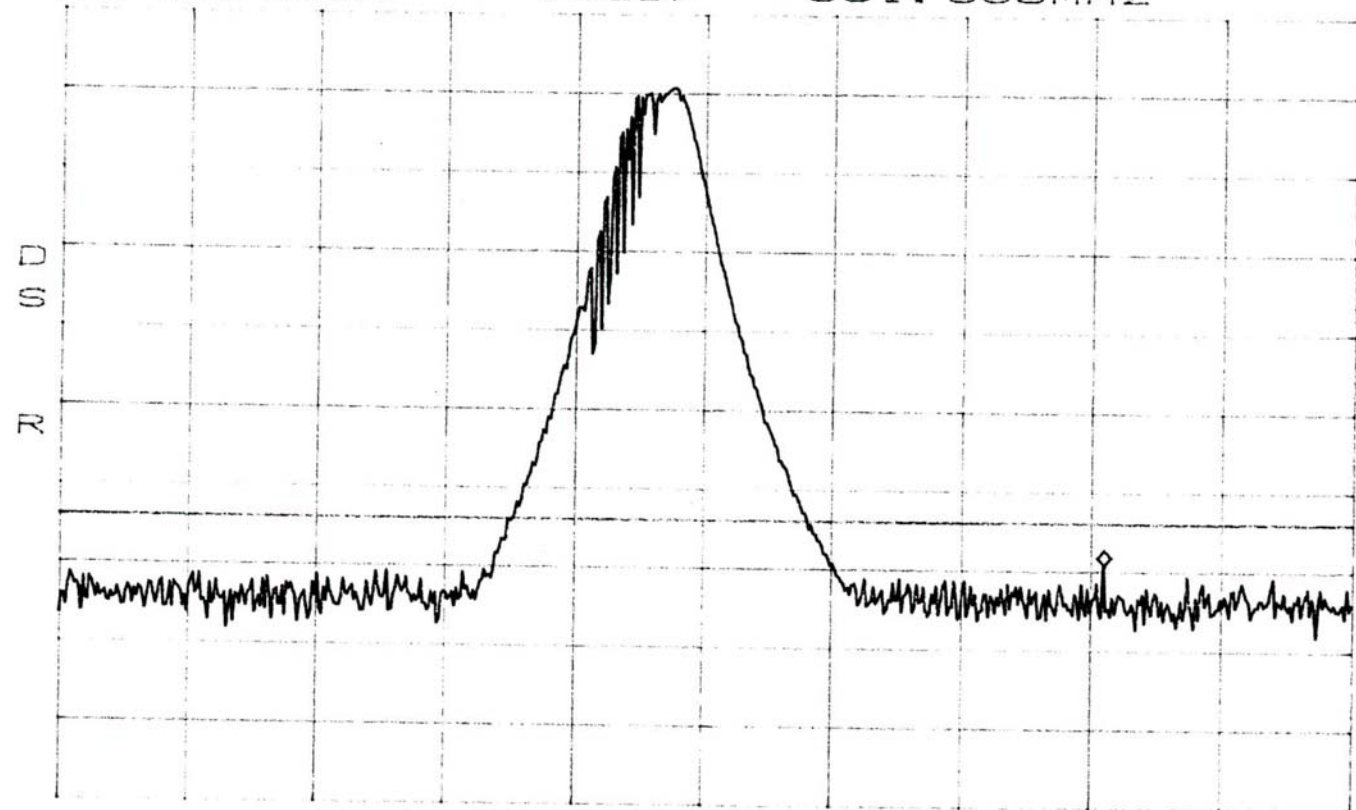
\*ATTEN 30dB

RL 51.0dBm

10dB/

MKR -18.17dBm

881.550MHz



CENTER 880.000MHz

SPAN 5.000MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

Software Defined Radio

Software Test 7

A Band - Channel 181

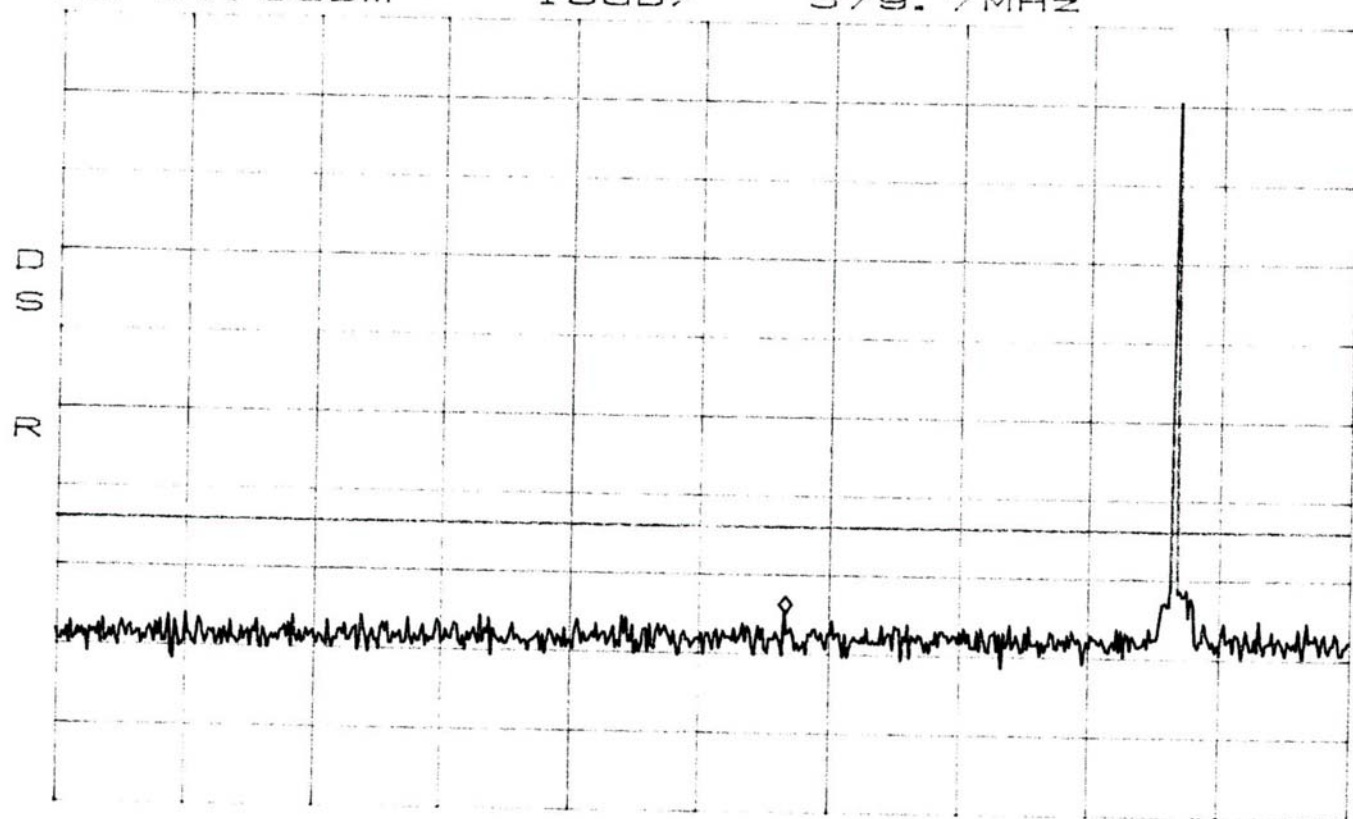
\*ATTEN 30dB

RL 51.0dBm

10dB/

MKR -23.67dBm

579.7MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

Software Defined Radio

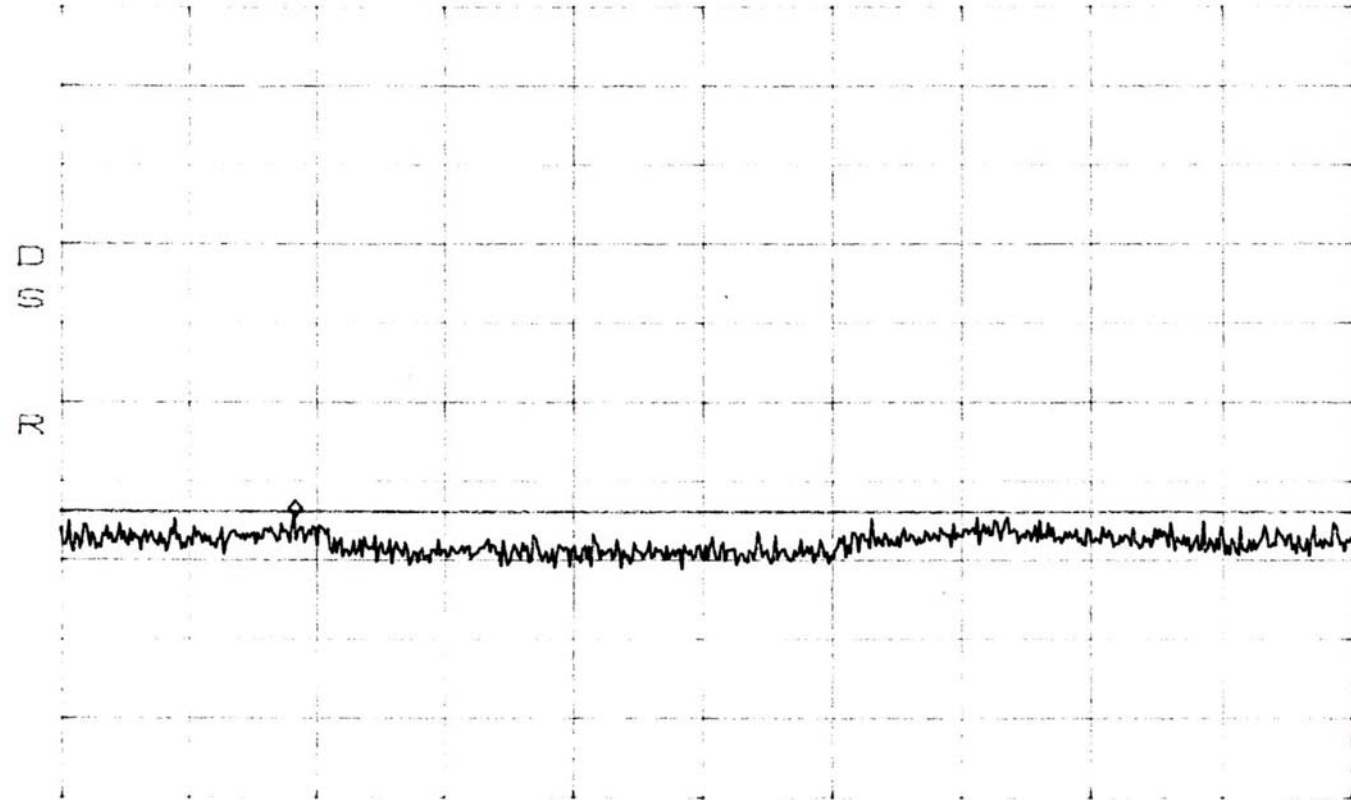
Software Test 7

A Band - Channel 181

\*ATTEN 30dB  
RL 51.0dBm

MKR -13.33dBm  
2.650GHz

10dB/



START 1.000GHz STOP 10.000GHz  
\*RBW 1.0MHz VBW 1.0MHz SWP 180ms

Software Defined Radio

Software Test 7

B Band - Channel 217

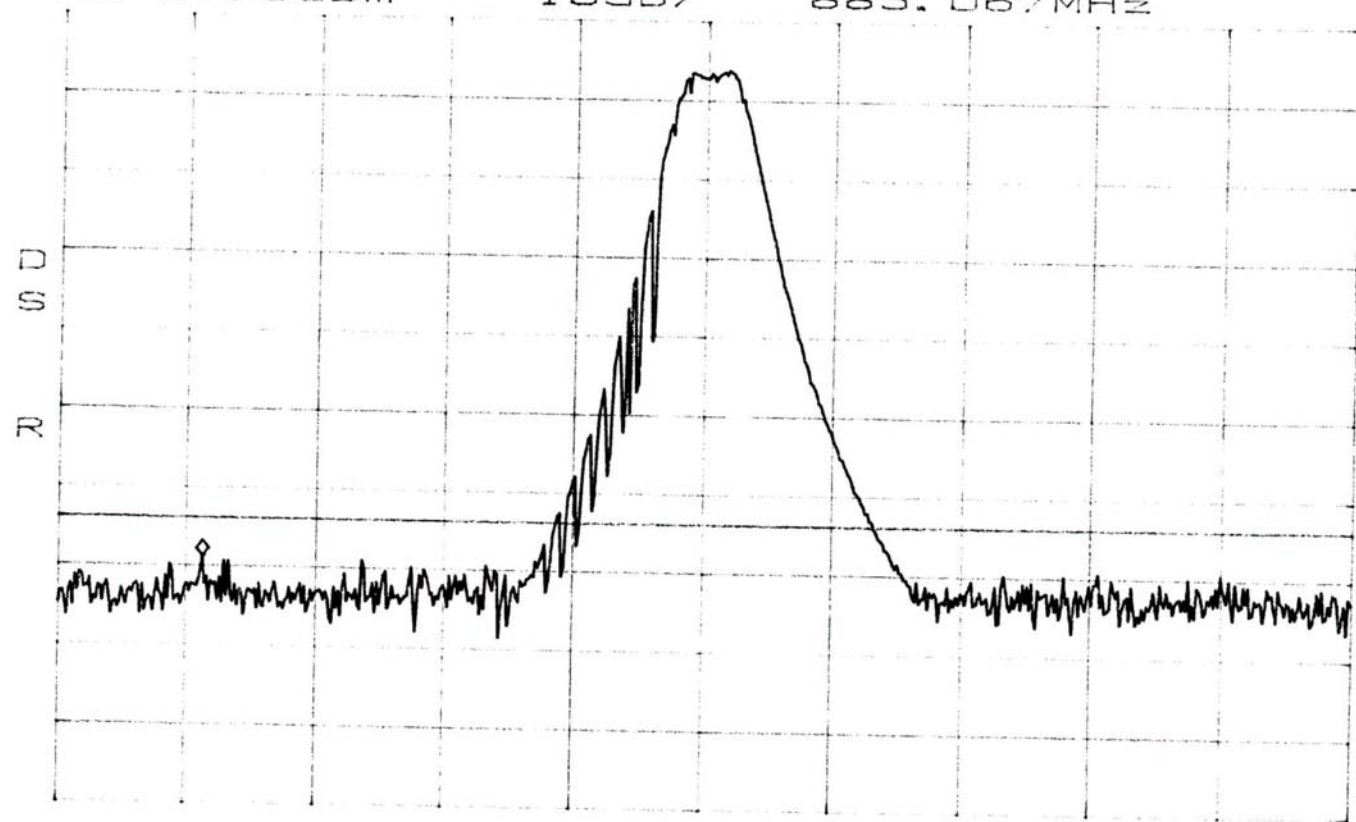
\*ATTEN 30dB

RL 51.0dBm

MKR -17.67dBm

10dB/

885.067MHz



CENTER 887.000MHz

SPAN 5.000MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

Software Defined Radio

Software Test 7

B Band - Channel 217

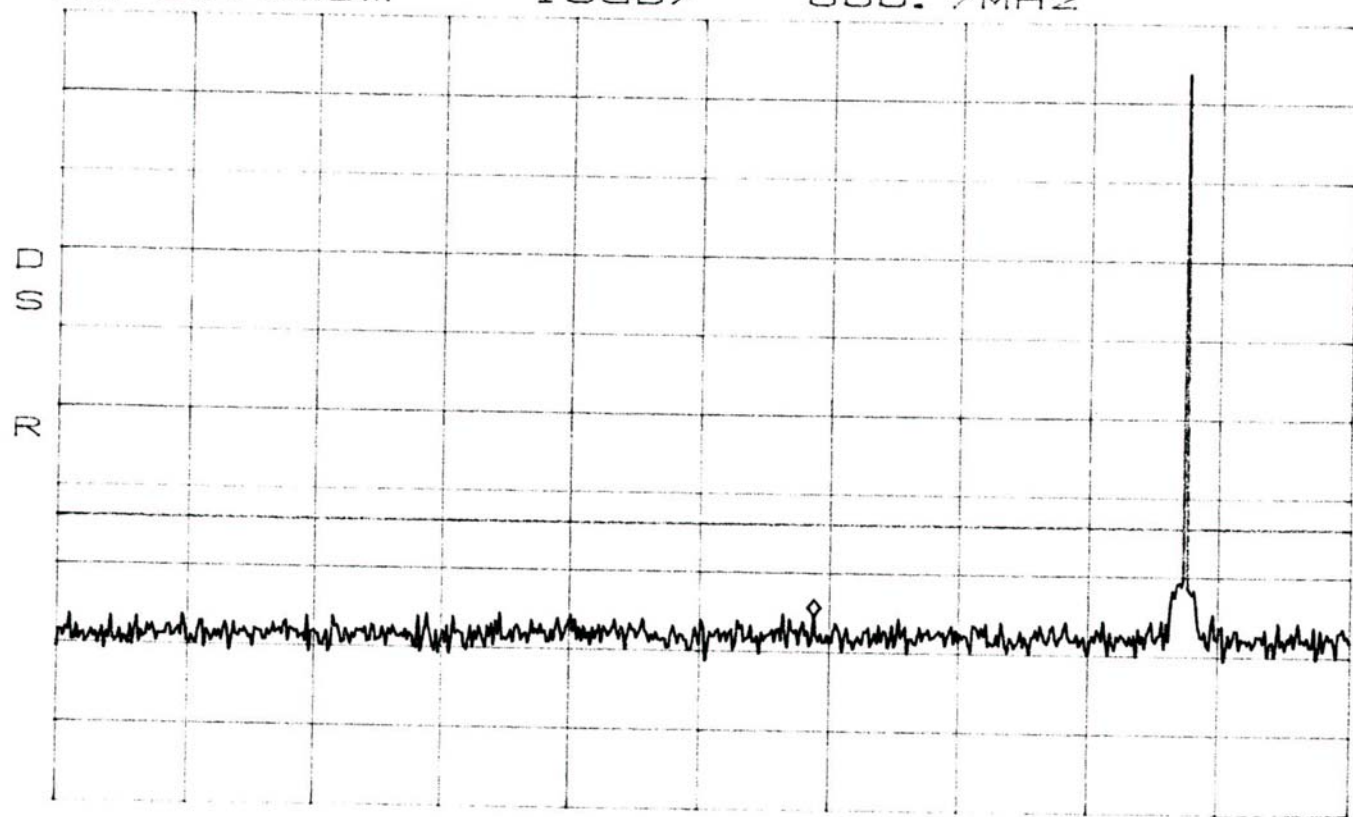
\*ATTEN 30dB

RL 51.0dBm

10dB/

MKR -24.33dBm

600.7MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

Software Defined Radio

Software Test 7

B Band - Channel 217

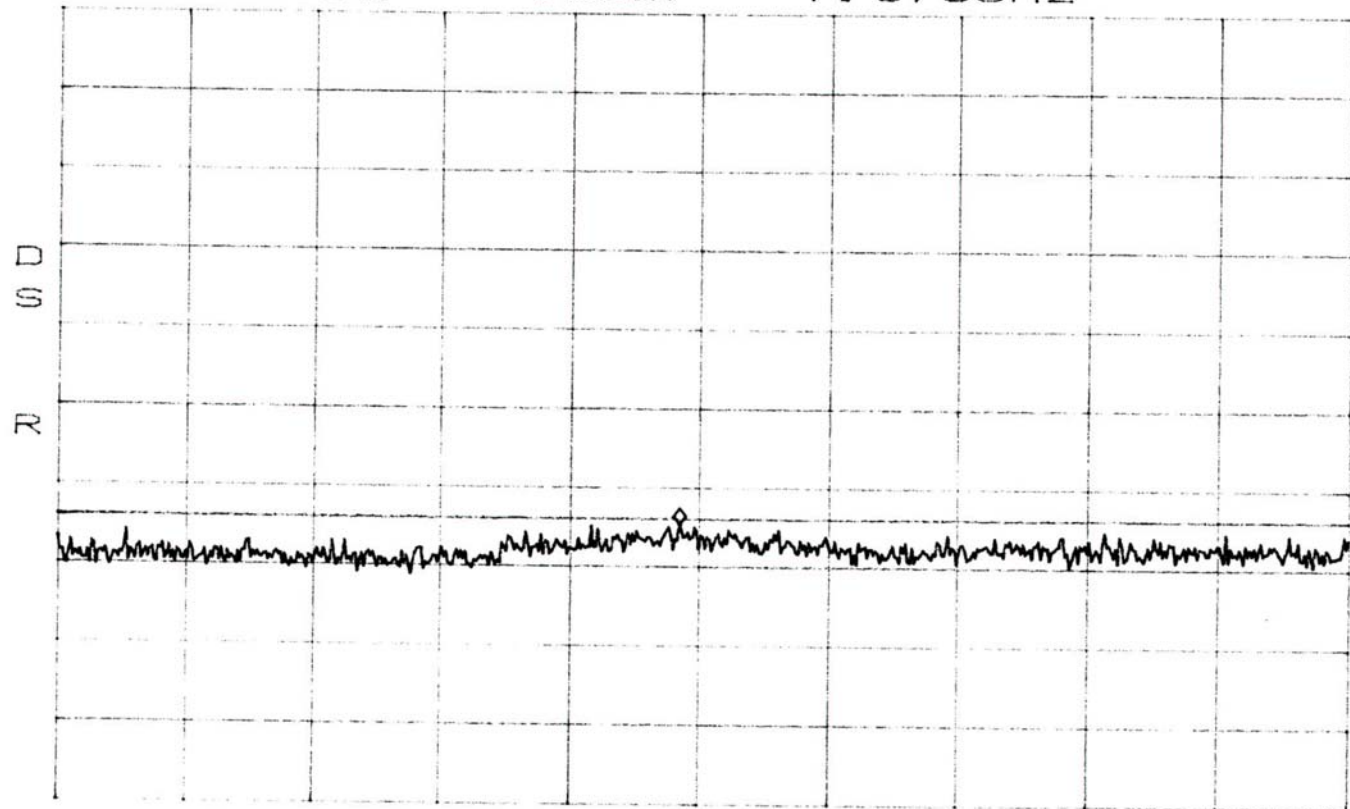
\*ATTEN 30dB

RL 51.0dBm

MKR -13.50dBm

10dB/

7.675GHz



START 3.310GHz

STOP 12.310GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 180ms



**Software Test 8 for  
Digivance 800 MHz 50-Watt SDR System  
Model Numbers DGVs-112710SYS and DGVs-122710SYS**

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10<sup>th</sup> harmonic of the highest carrier frequency. The Software Test 8 simulates the GSM signal created from a square wave with a period of 4 symbols.

**Results:**

Pass (see plots)

Software Defined Radio

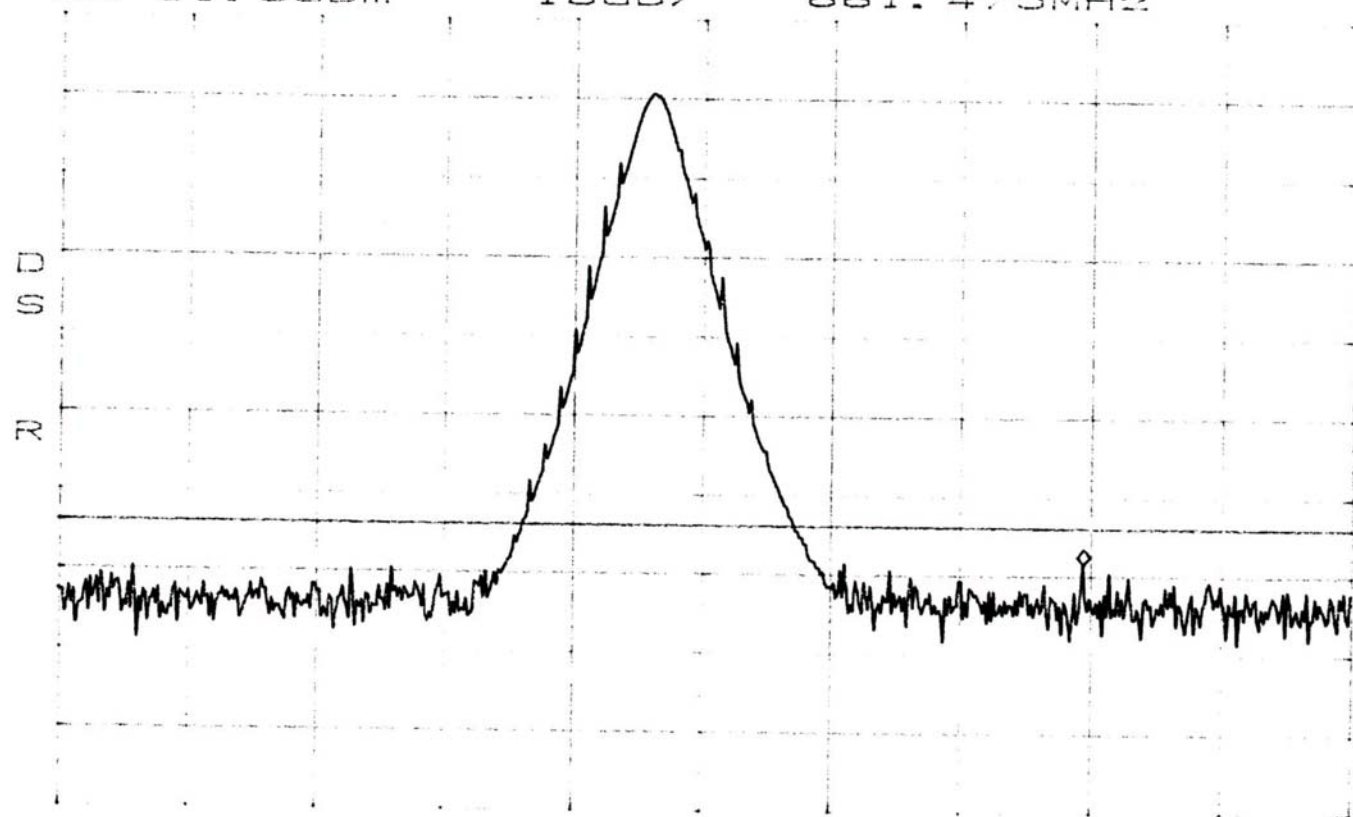
Software Test 8

A Band - Channel 181

\*ATTEN 30dB  
RL 51.0dBm

10dB/

MKR -17.33dBm  
881.475MHz



CENTER 880.000MHz  
\*RBW 100kHz VBW 100kHz

SPAN 5.000MHz  
SWP 50ms

Software Defined Radio

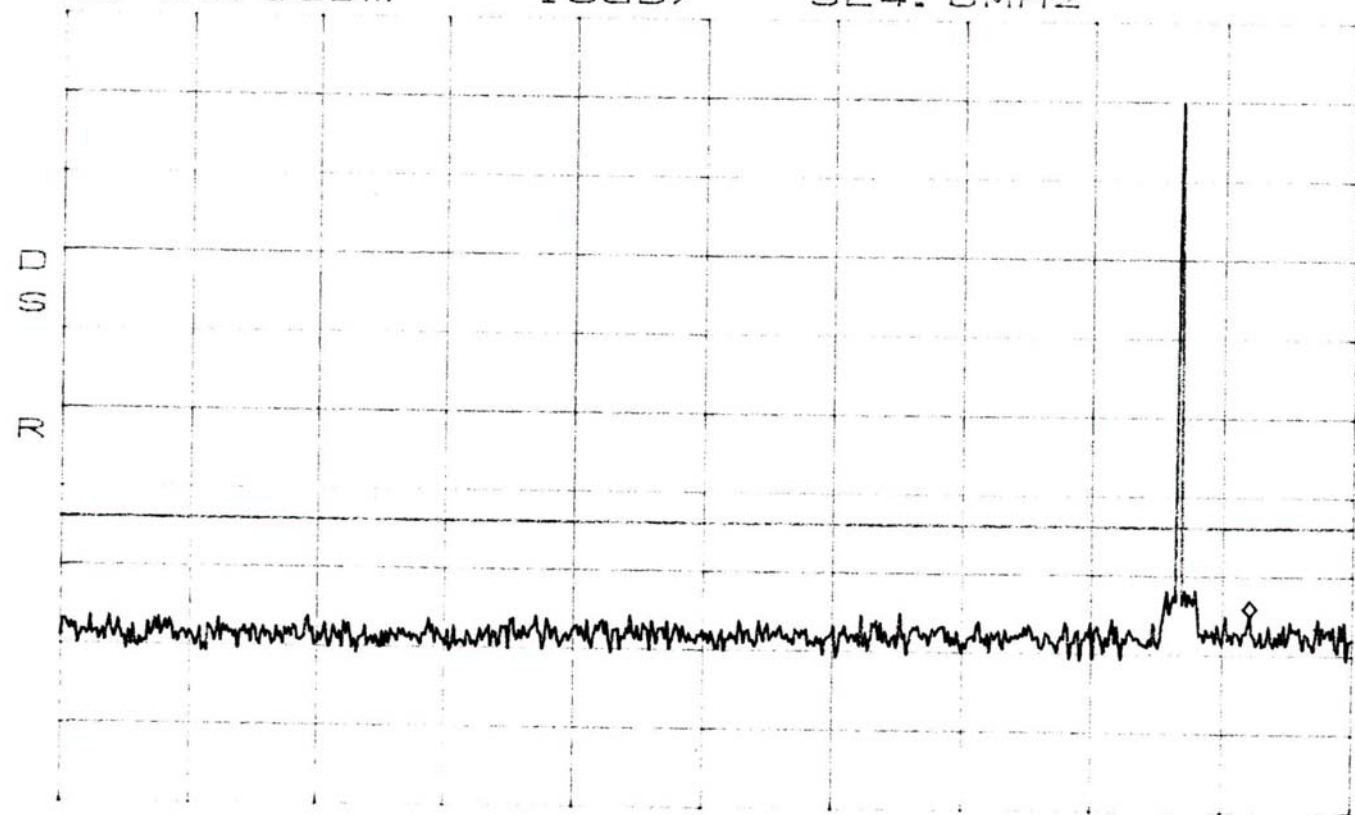
Software Test 8

A Band - Channel 181

\*ATTEN 30dB  
RL 51.0dBm

10dB/

MKR -24.00dBm  
924.0MHz



START 30.0MHz STOP 1.0000GHz  
\*RBW 100kHz VBW 100kHz SWP 250ms

Software Defined Radio

Software Test 8

A Band - Channel 181

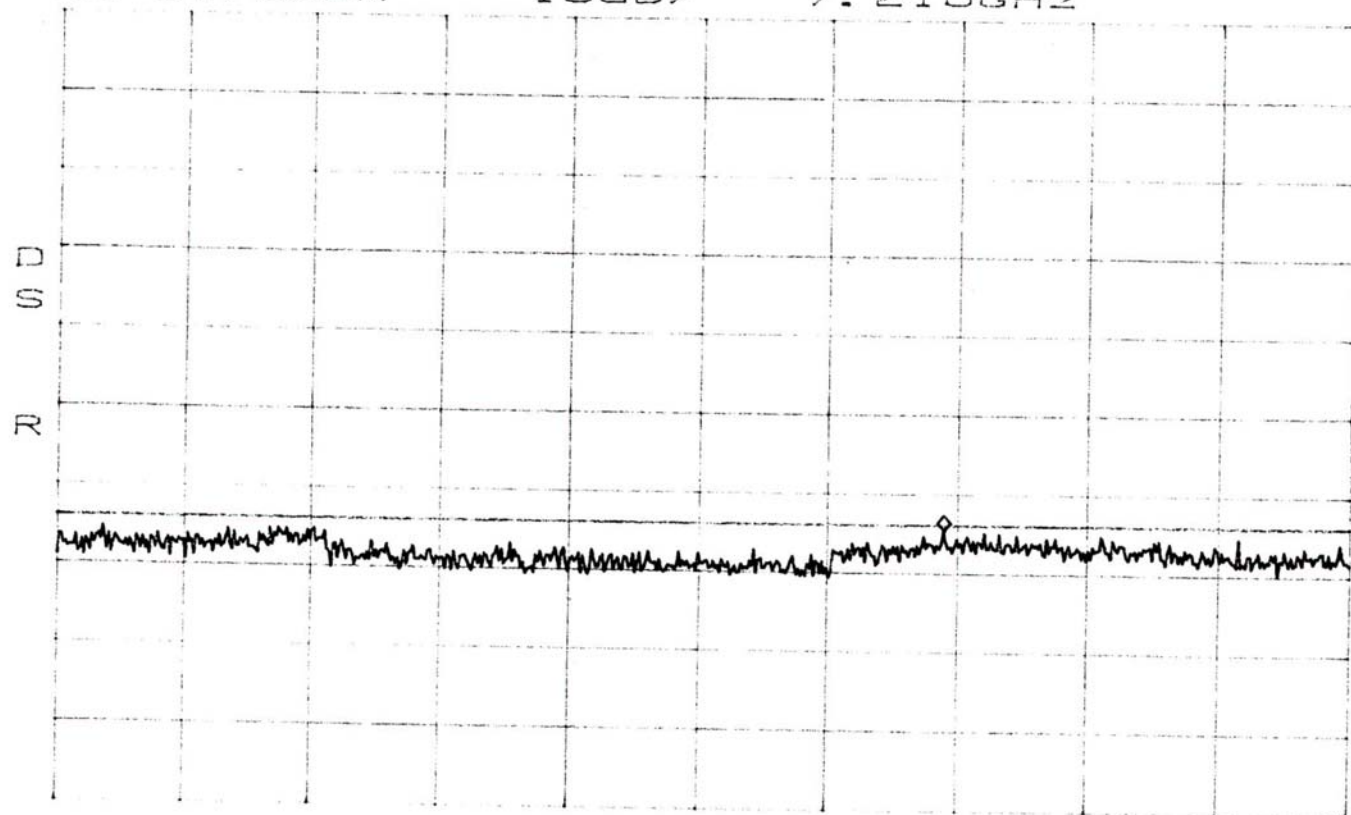
\*ATTEN 30dB

RL 51.0dBm

MKR -13.50dBm

10dB/

7.210GHz



START 1.000GHz

STOP 10.000GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 180ms

Software Defined Radio

Software Test 8

B Band - Channel 217

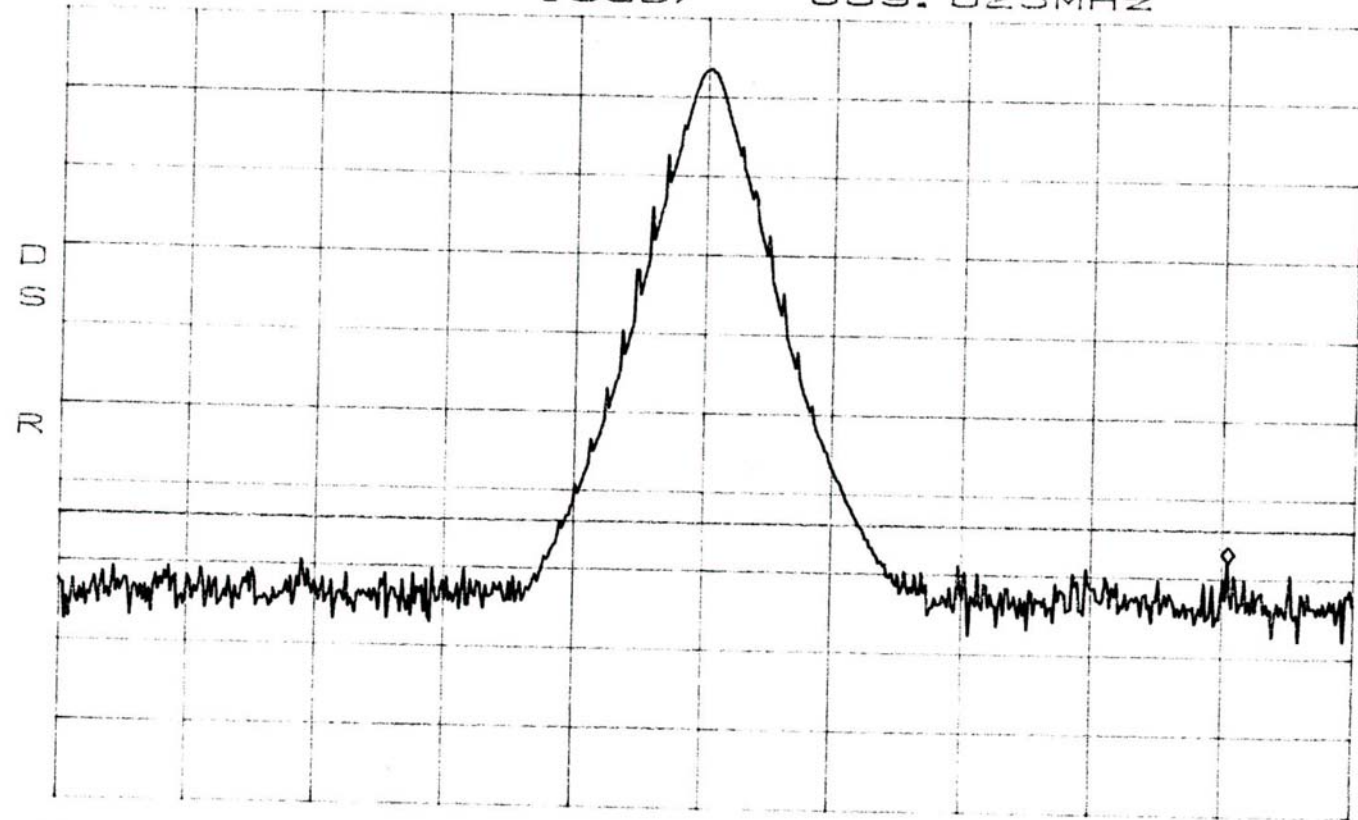
\*ATTEN 30dB

RL 51.0dBm

MKR -16.83dBm

10dB/

889.025MHz



CENTER 887.000MHz

SPAN 5.000MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

Software Defined Radio

Software Test 8

B Band - Channel 217

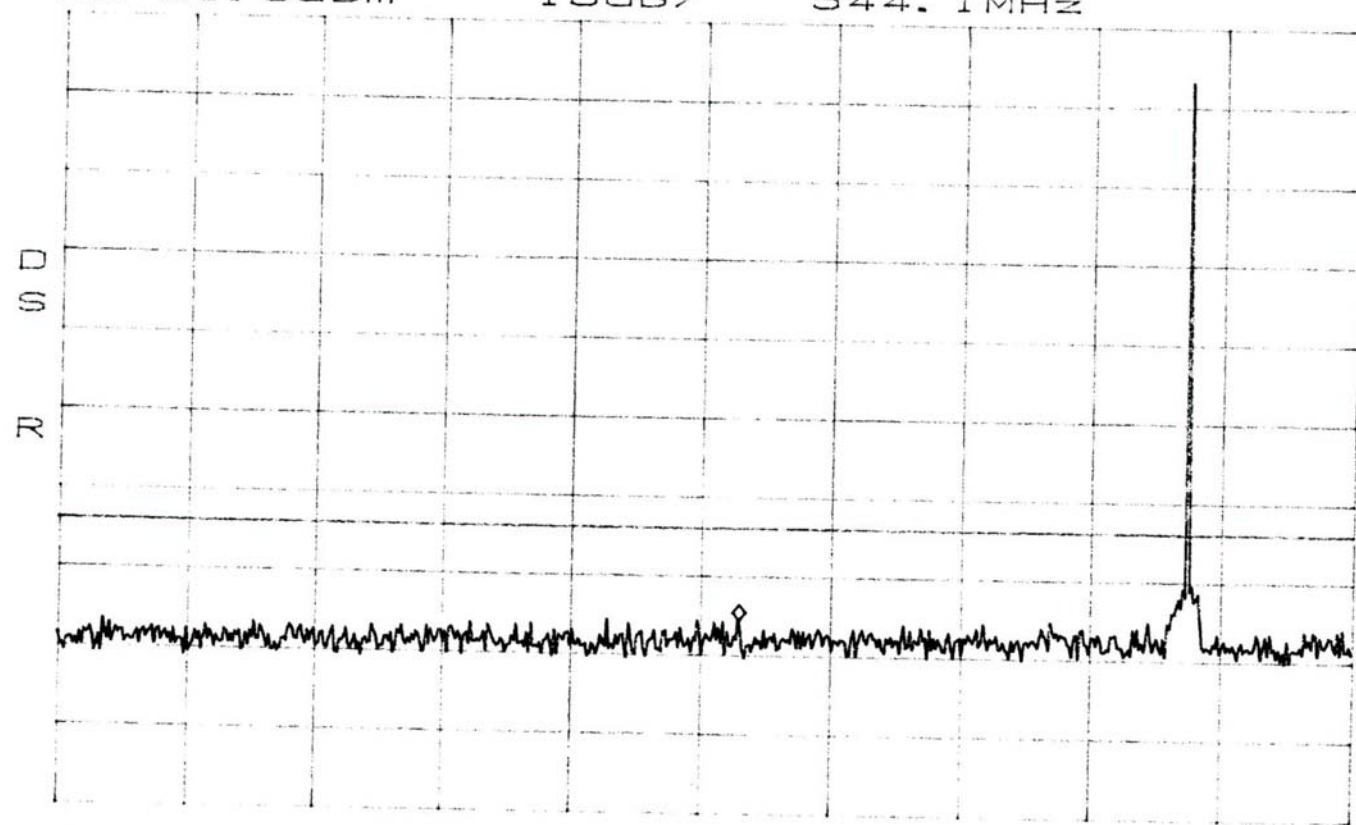
\*ATTEN 30dB

RL 51.0dBm

10dB/

MKR -24.50dBm

544.1MHz



START 30.0MHz

STOP 1.00000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

Software Defined Radio

Software Test 8

B Band - Channel 217

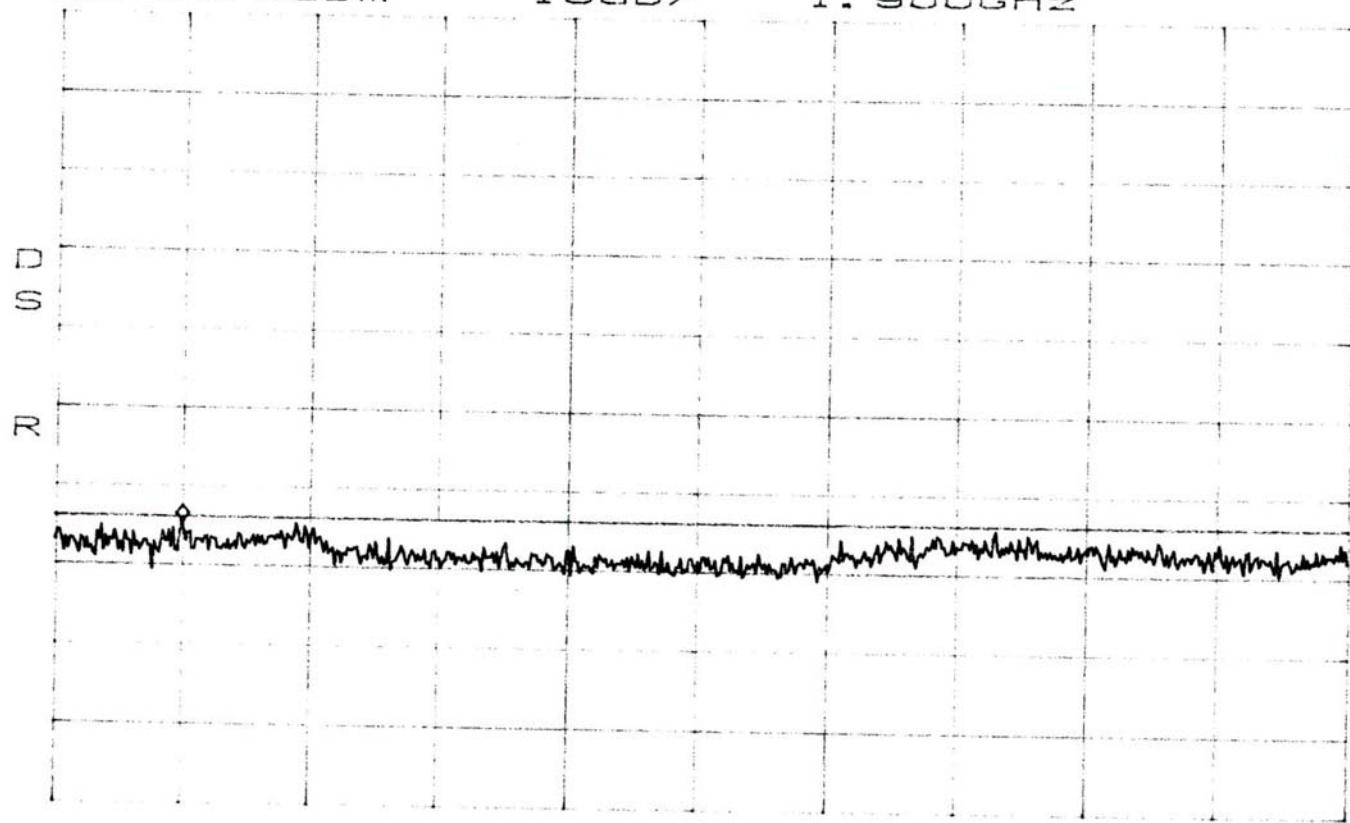
\*ATTEN 30dB

RL 51.0dBm

MKR -13.33dBm

10dB/

1.900GHz



START 1.000GHz

STOP 10.000GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 180ms



**Software Test 9 for  
Digivance 800 MHz 50-Watt SDR System  
Model Numbers DGVs-112710SYS and DGVs-122710SYS**

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10<sup>th</sup> harmonic of the highest carrier frequency. The Software Test 9 simulates the GSM signal created from a random sequence of 266604 symbols.

**Results:**

Pass (see plots)

Software Defined Radio

Software Test 9

A Band - Channel 181

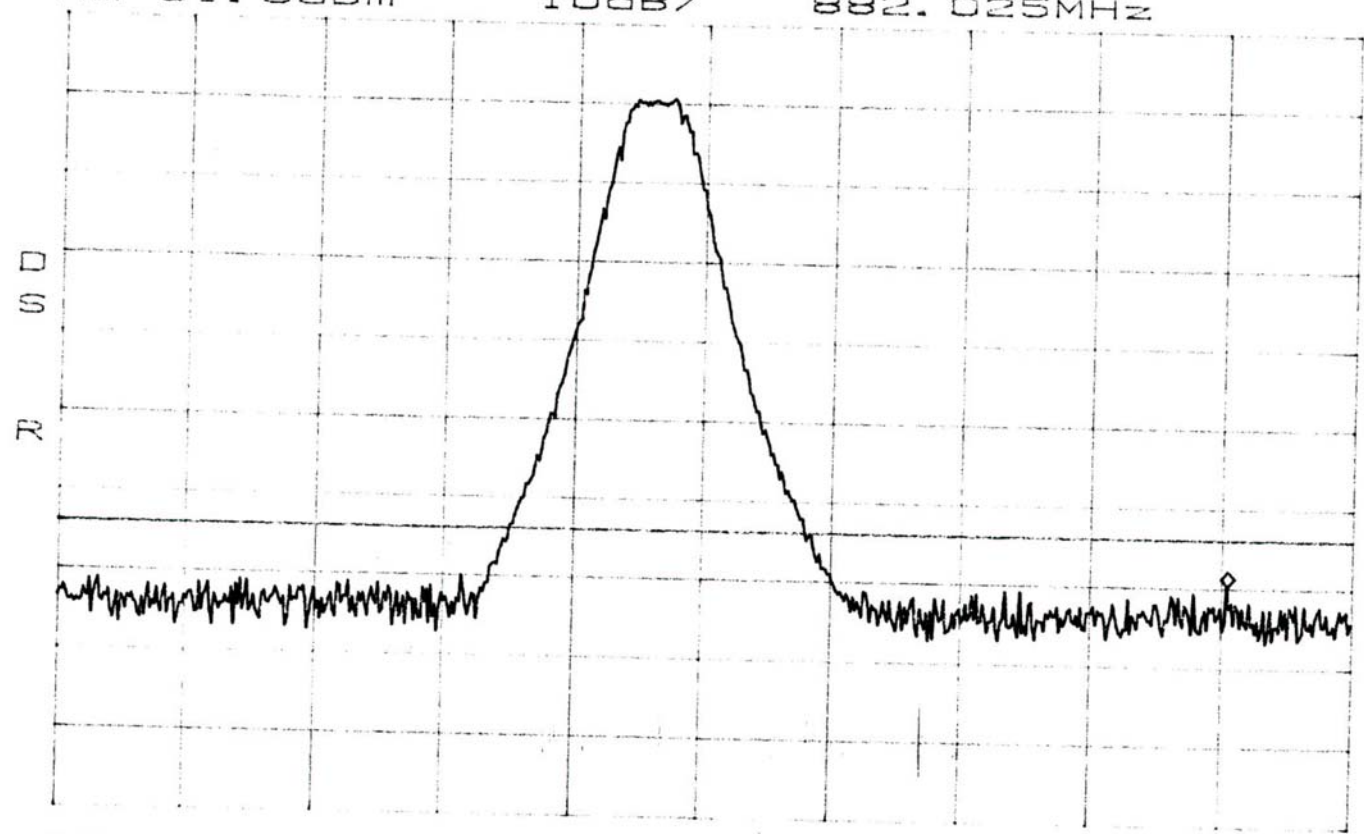
\*ATTEN 30dB

RL 51.0dBm

10dB/

MKR -18.67dBm

882.025MHz



CENTER 880.000MHz

\*RBW 100kHz

VBW 100kHz

SPAN 5.000MHz

SWP 50ms

Software Defined Radio

Software Test 9

A Band - Channel 181

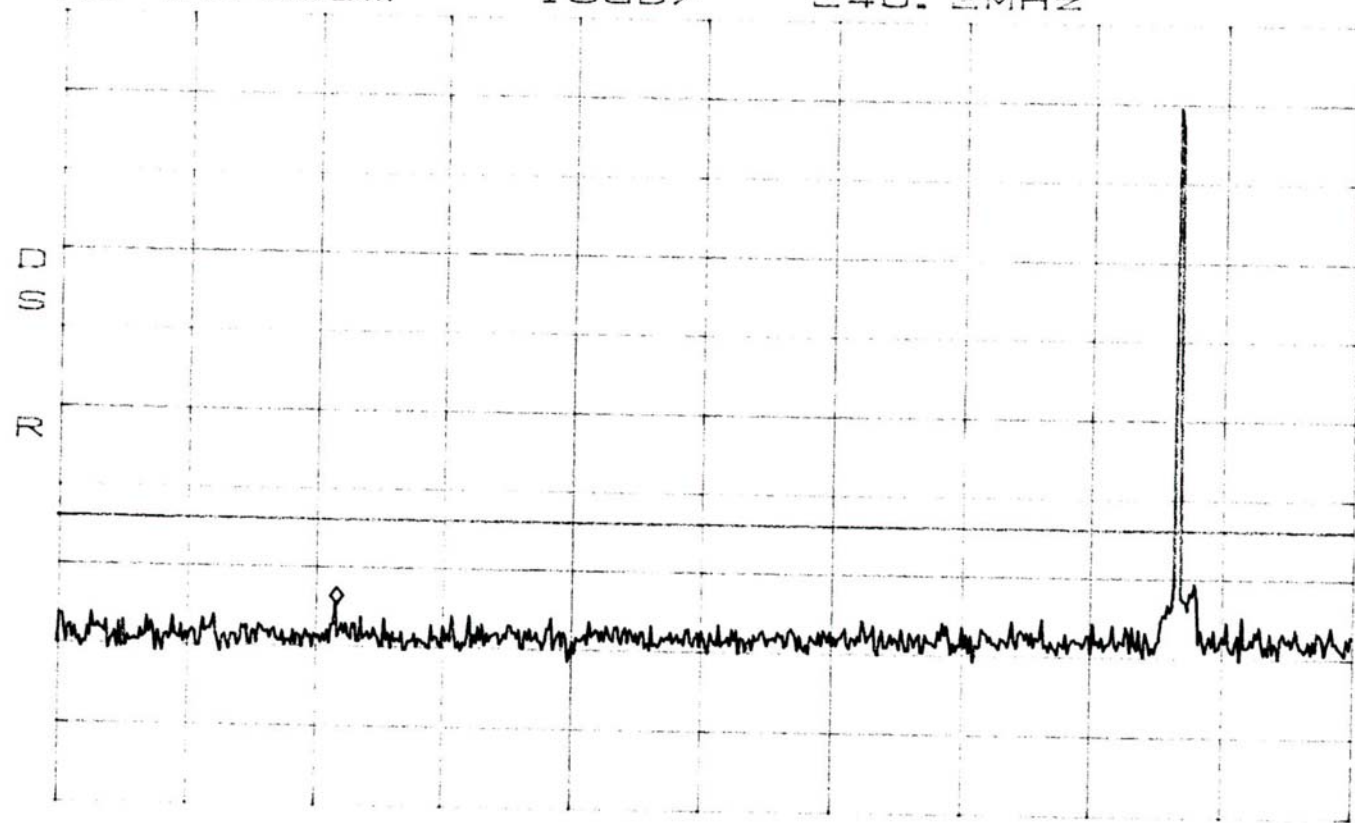
\*ATTEN 30dB

RL 51.0dBm

MKR -23.50dBm

10dB/

240.2MHz



START 30.0MHz

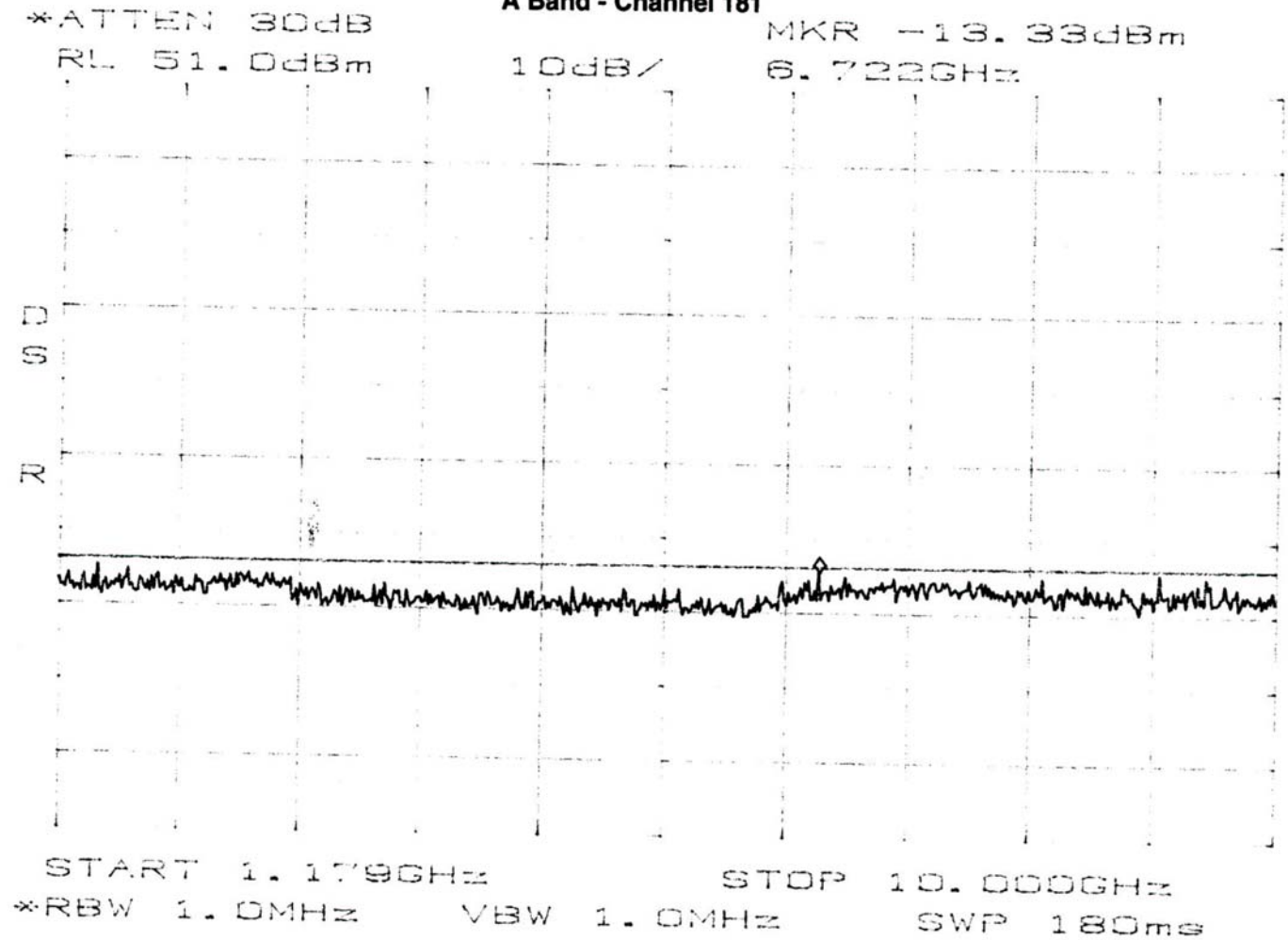
STOP 1.0000GHz

\*RBW 100kHz

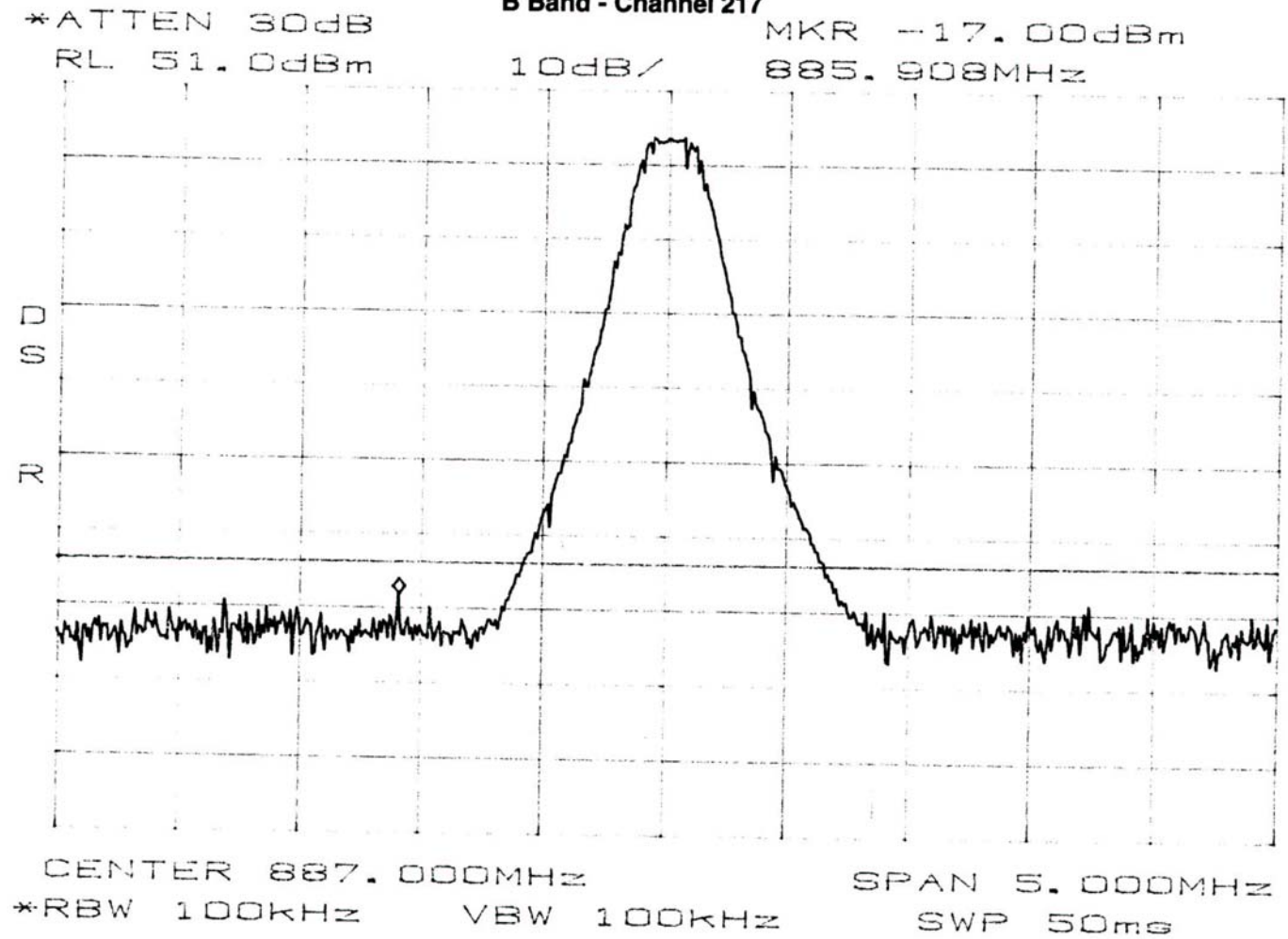
VBW 100kHz

SWP 250ms

Software Defined Radio  
Software Test 9  
A Band - Channel 181



Software Defined Radio  
Software Test 9  
B Band - Channel 217



Software Defined Radio

Software Test 9

B Band - Channel 217

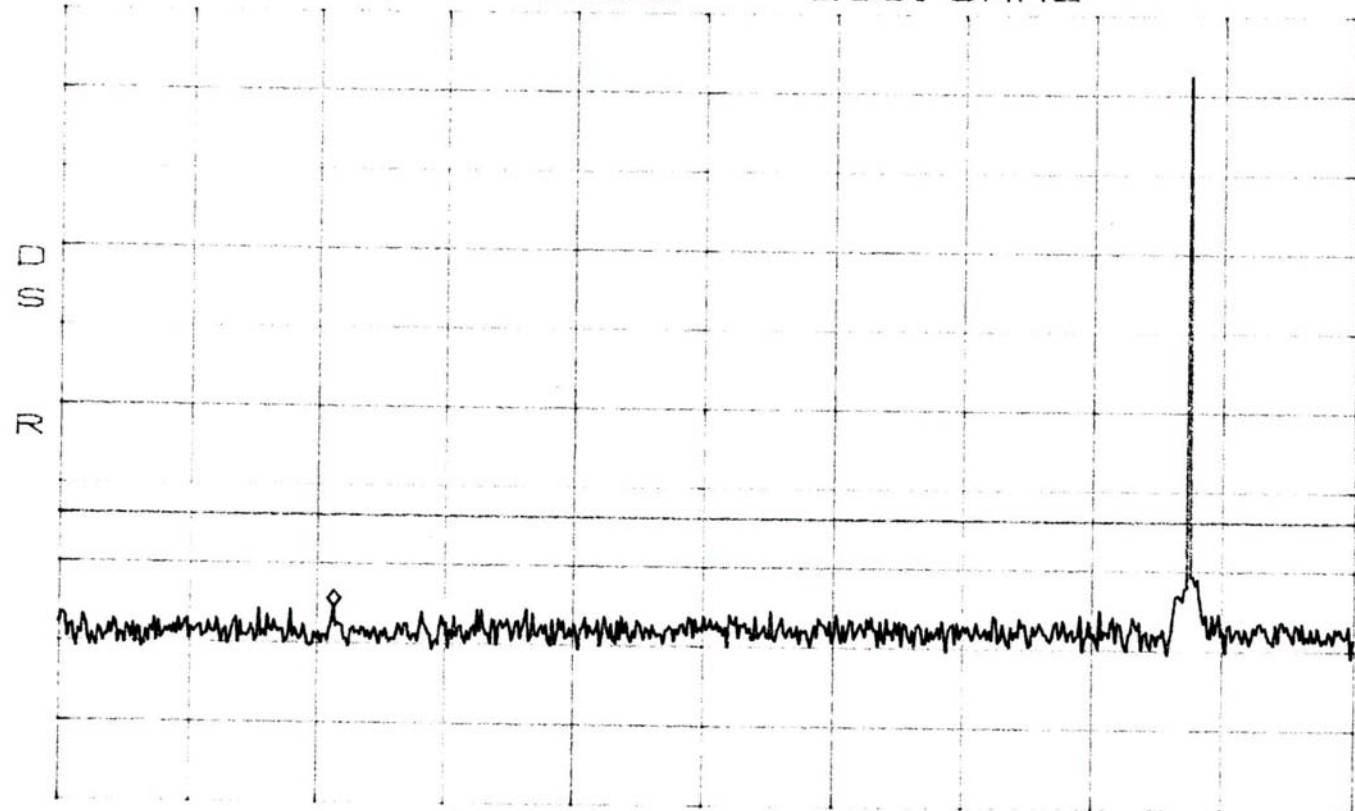
\*ATTEN 30dB

RL 51.0dBm

MKR -24.33dBm

10dB/

236.9MHz



START 30.0MHz

STOP 1.00000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

Software Defined Radio

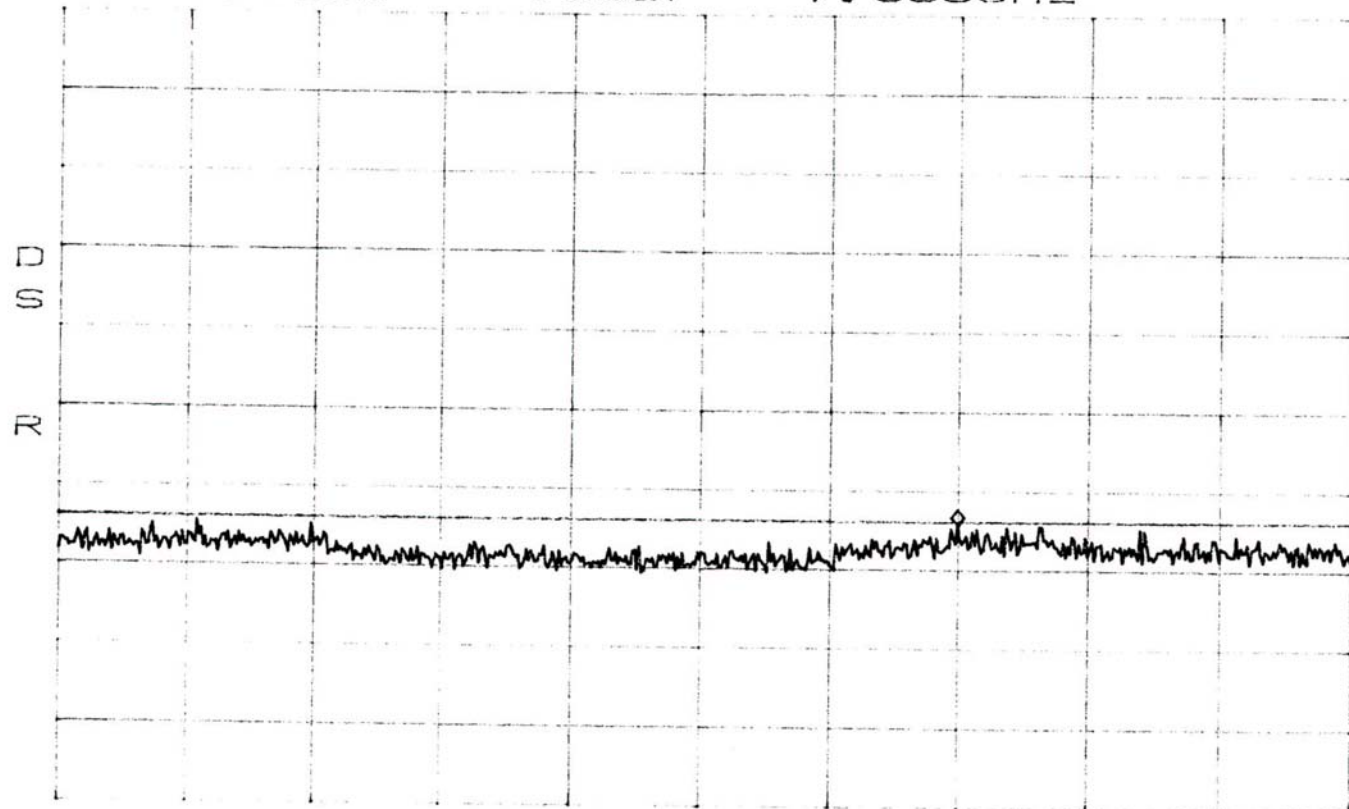
Software Test 9

B Band - Channel 217

\*ATTEN 30dB  
RL 51.0dBm

MKR -13.17dBm  
7.300GHz

10dB/



START 1.000GHz STOP 10.000GHz  
\*RBW 1.0MHz VBW 1.0MHz SWP 180ms