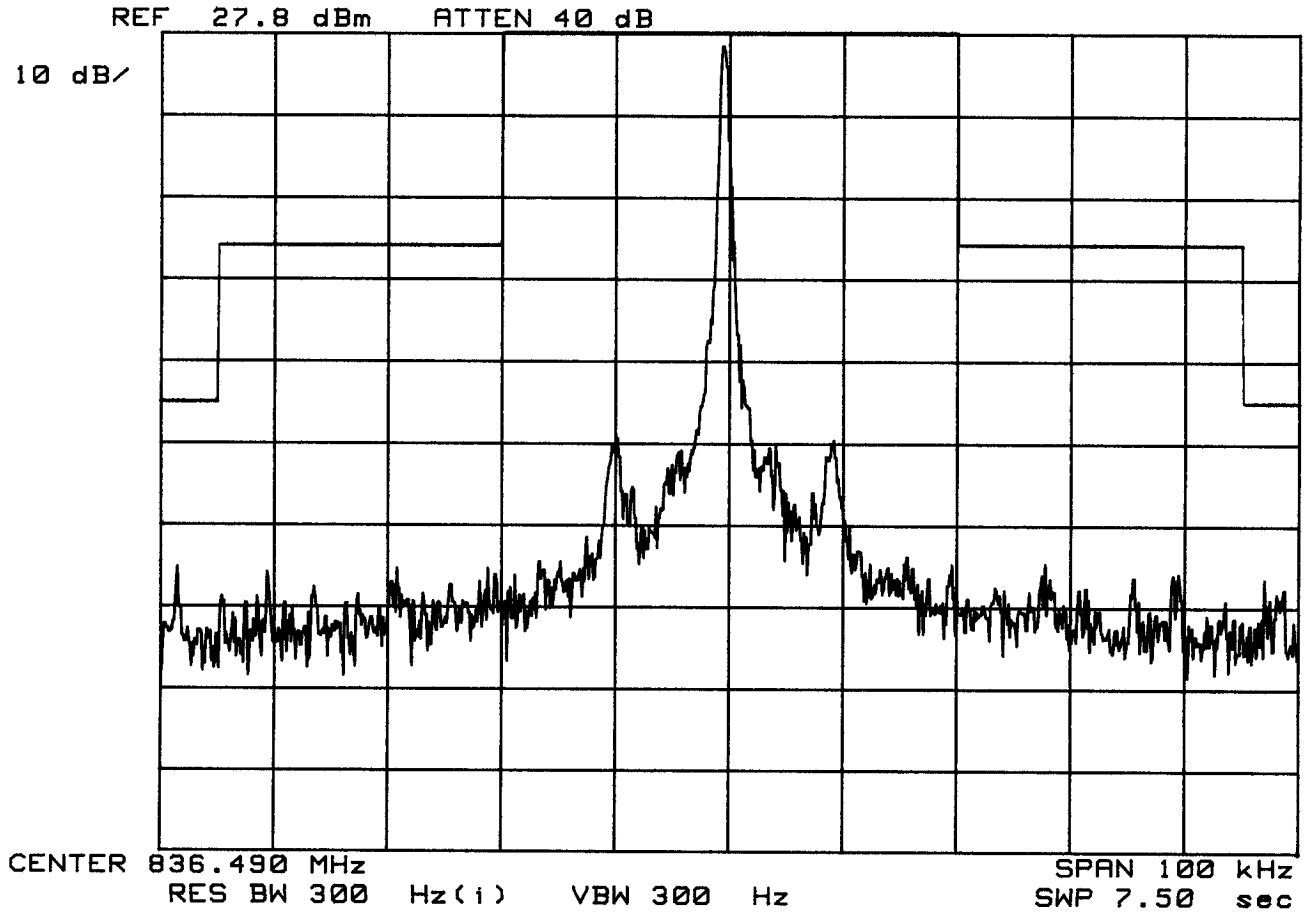
PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-310
HYUNDAI ELECTRONICS
DUAL MODE
FM Channel 0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode:Unmodulated Signal

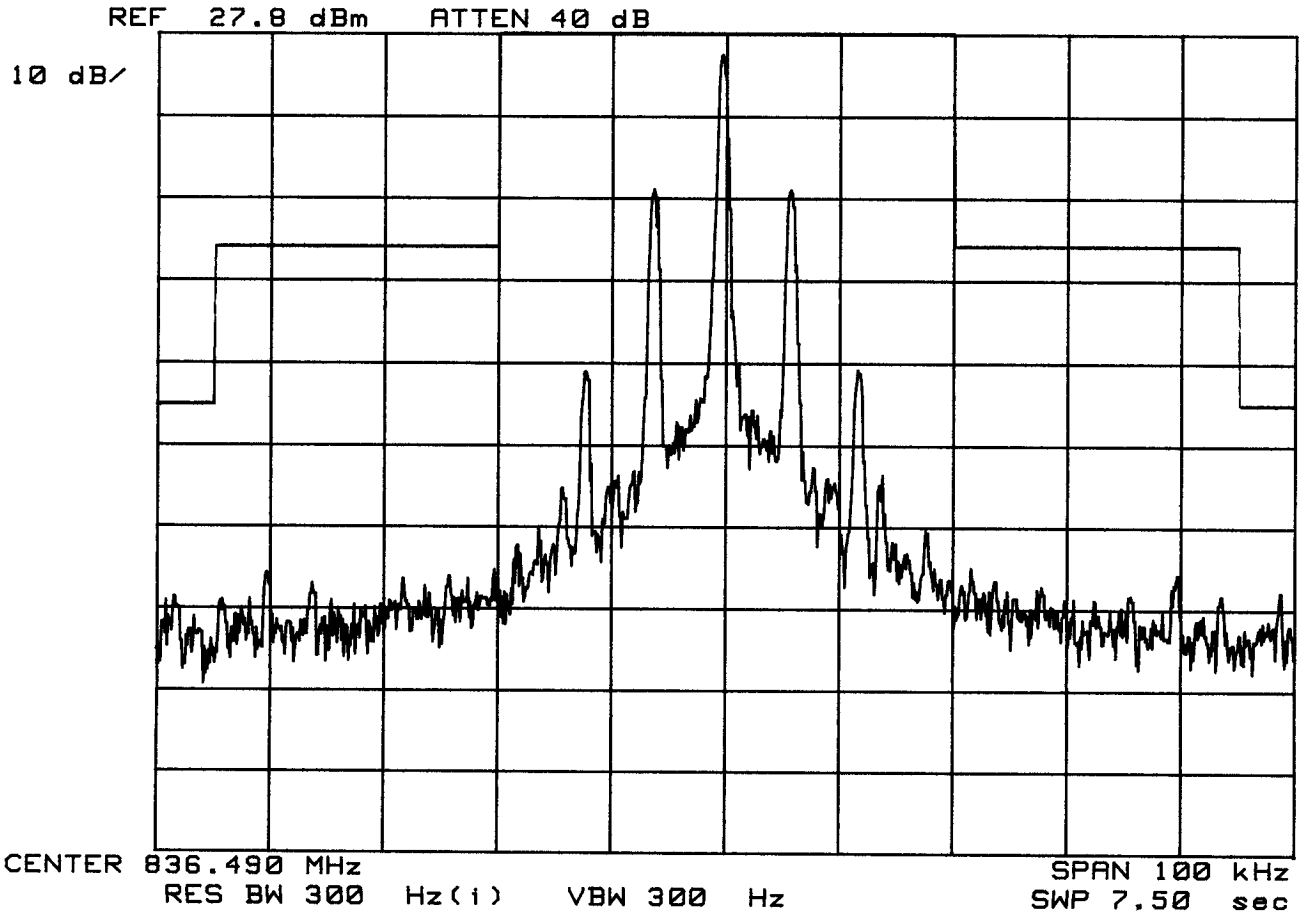


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-310
HYUNDAI ELECTRONICS
DUAL MODE
FM Channel 0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode:SAT

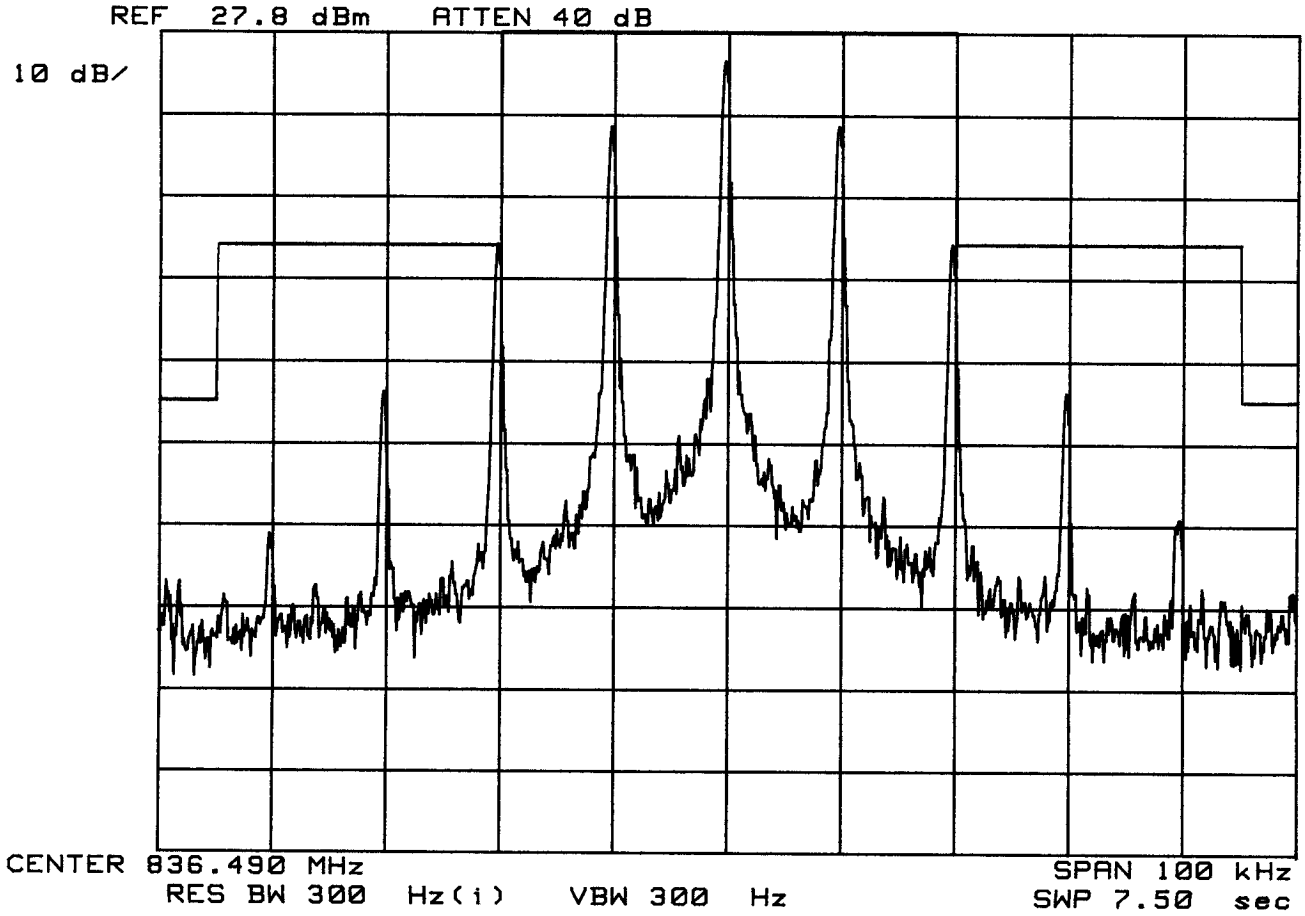


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-310
HYUNDAI ELECTRONICS
DUAL MODE
FM Channel 0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode:ST

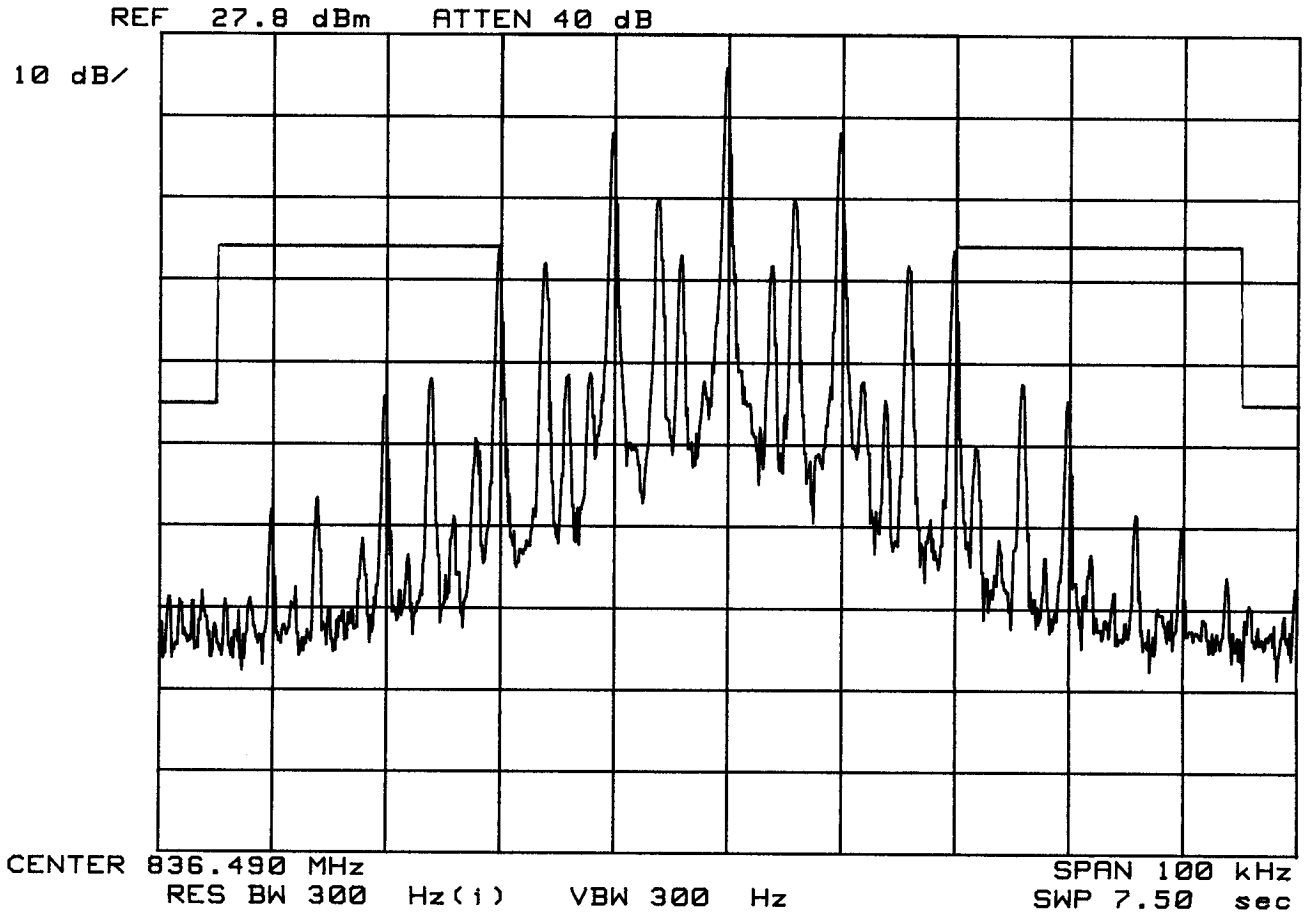


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-310
HYUNDAI ELECTRONICS
DUAL MODE
FM Channel 0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode:SAT + ST

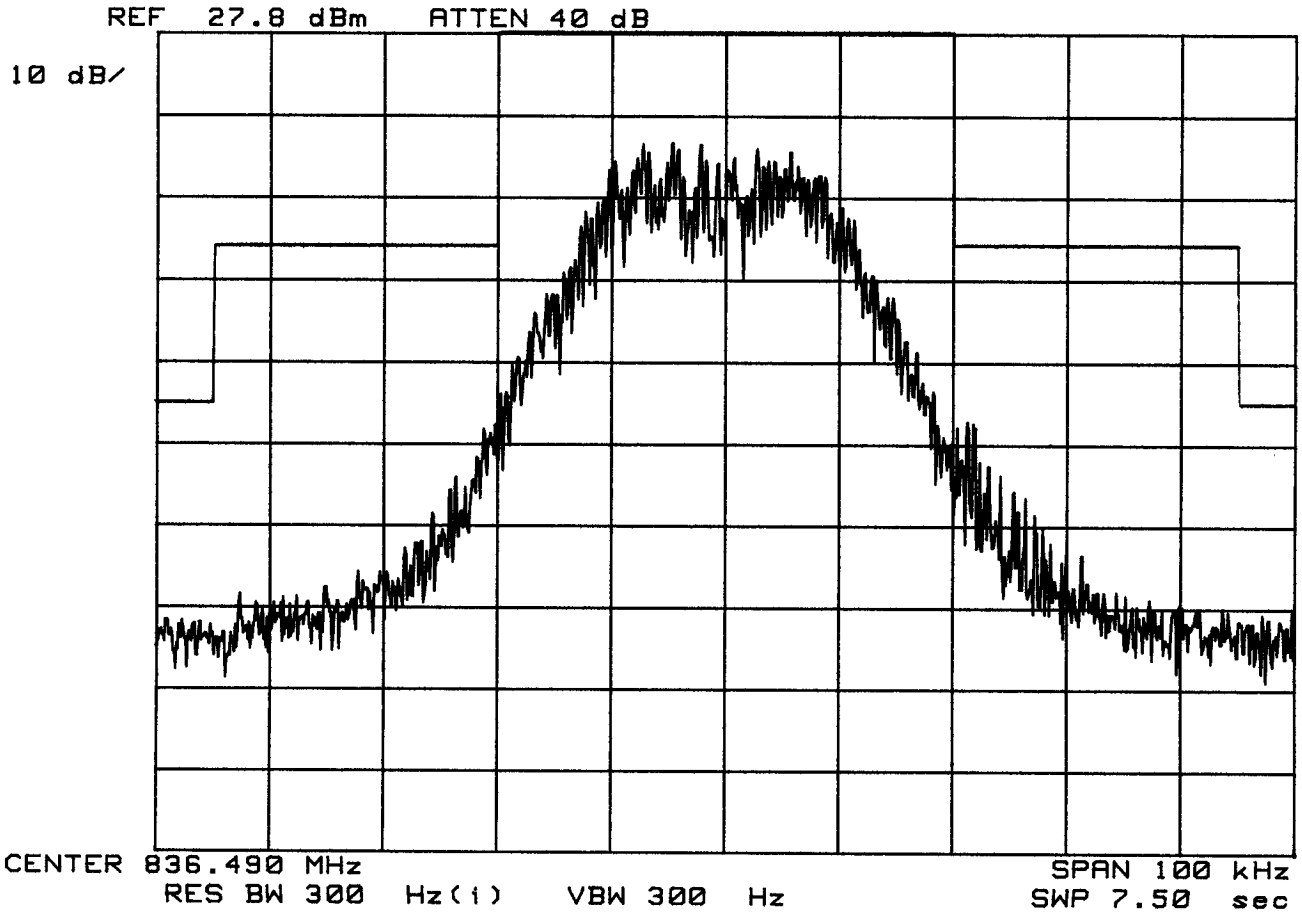


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-310
HYUNDAI ELECTRONICS
DUAL MODE
FM Channel 0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode:SAT + Voice

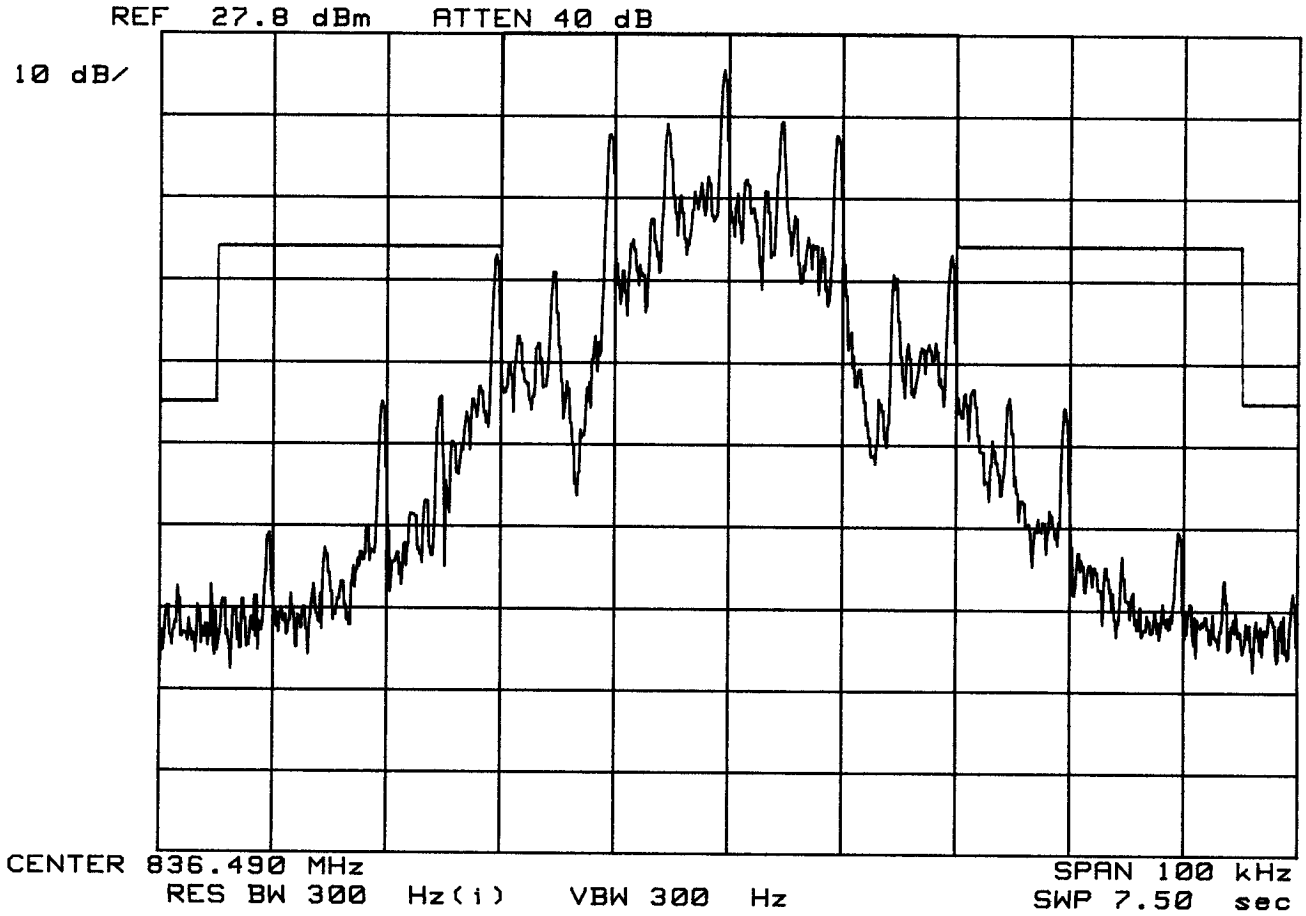


PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:CKLHGC-310
HYUNDAI ELECTRONICS
DUAL MODE
FM Channel 0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

Test Mode:Wide Band Data

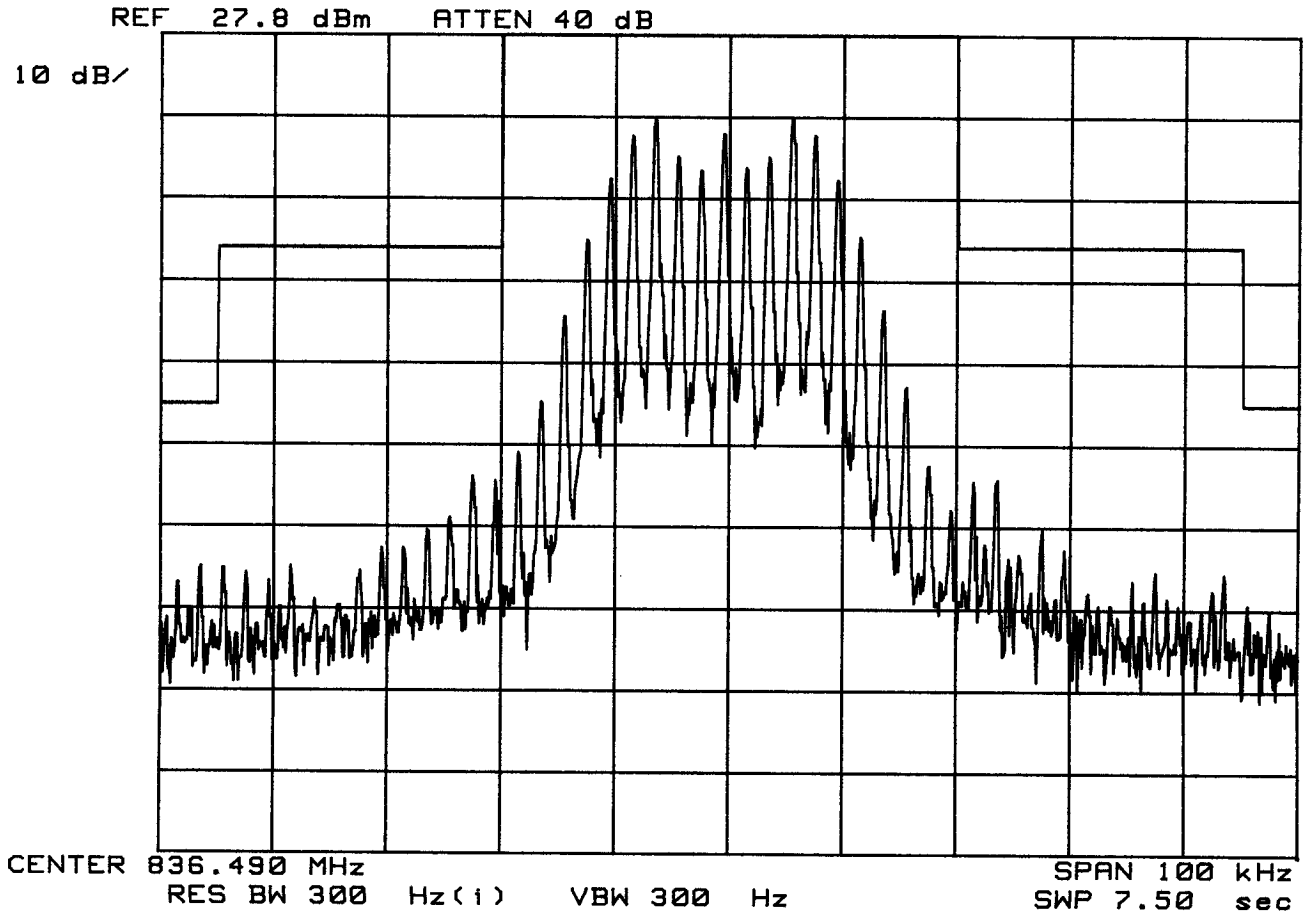


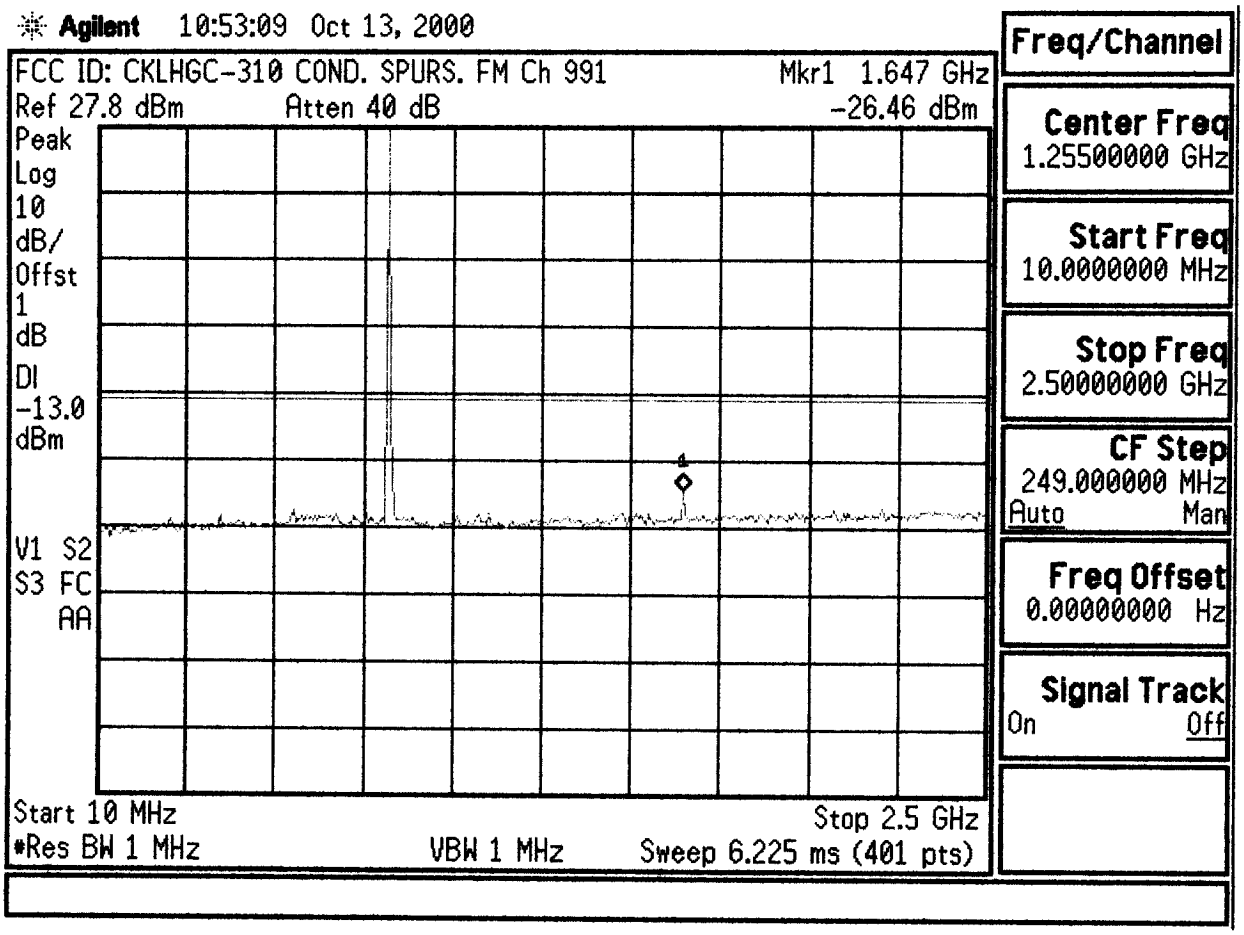
PCTEST Engineering Lab.

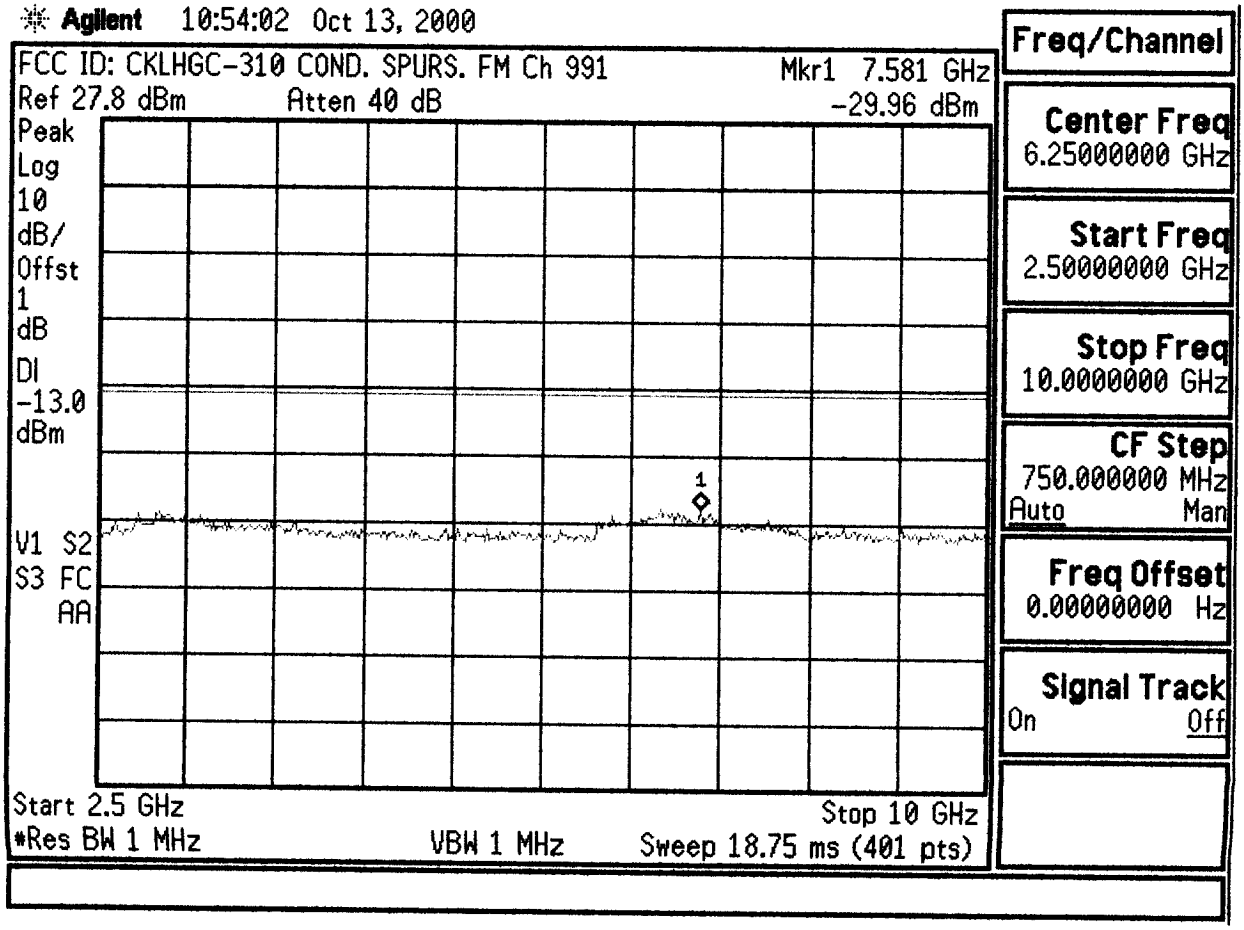
SPECTRUM ANALYZER PRESENTATION

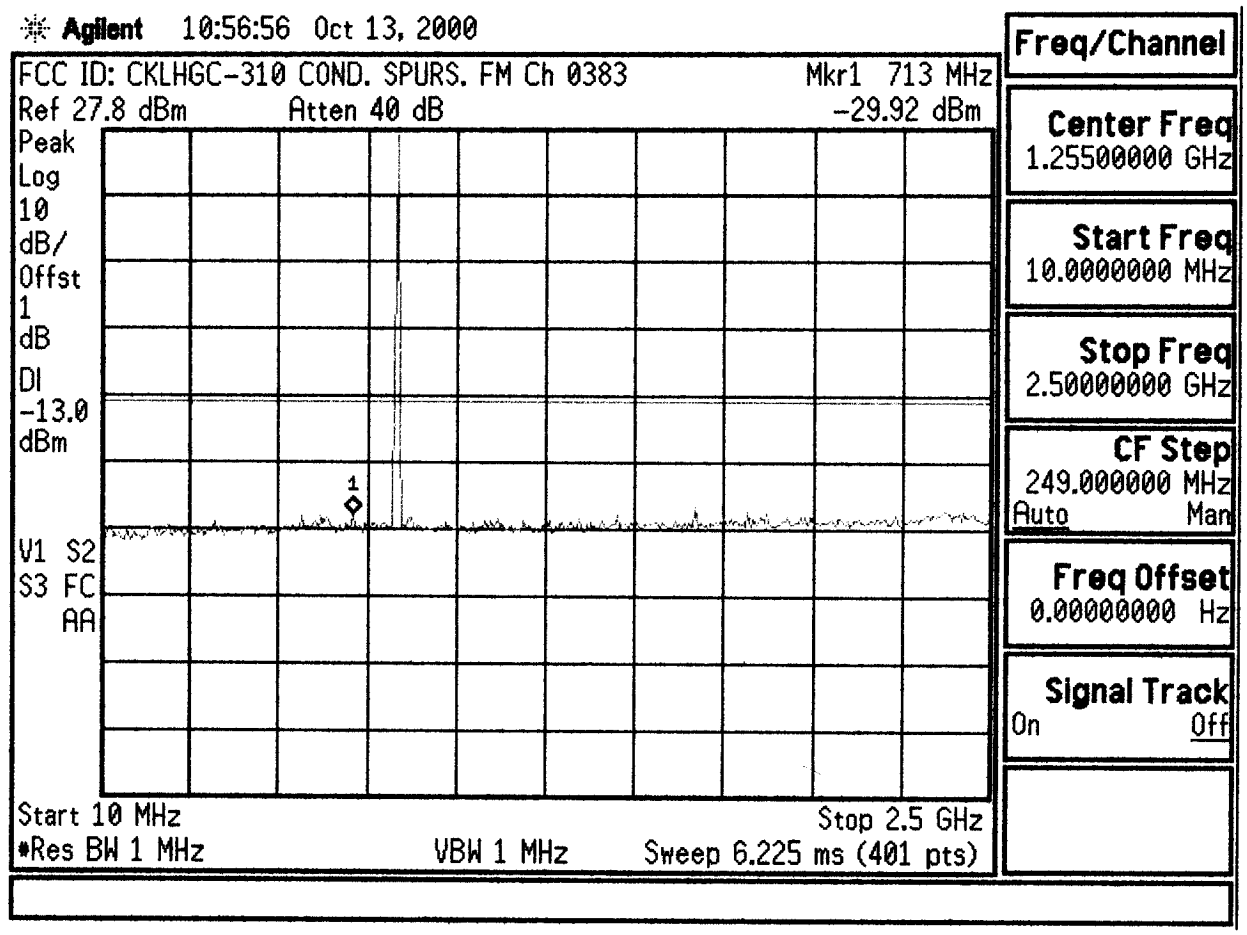
FCC ID:CKLHGC-310
HYUNDAI ELECTRONICS
DUAL MODE
FM Channel 0383
Operating Frequency: 836.490 MHz
Output Power : 27.8 dBm

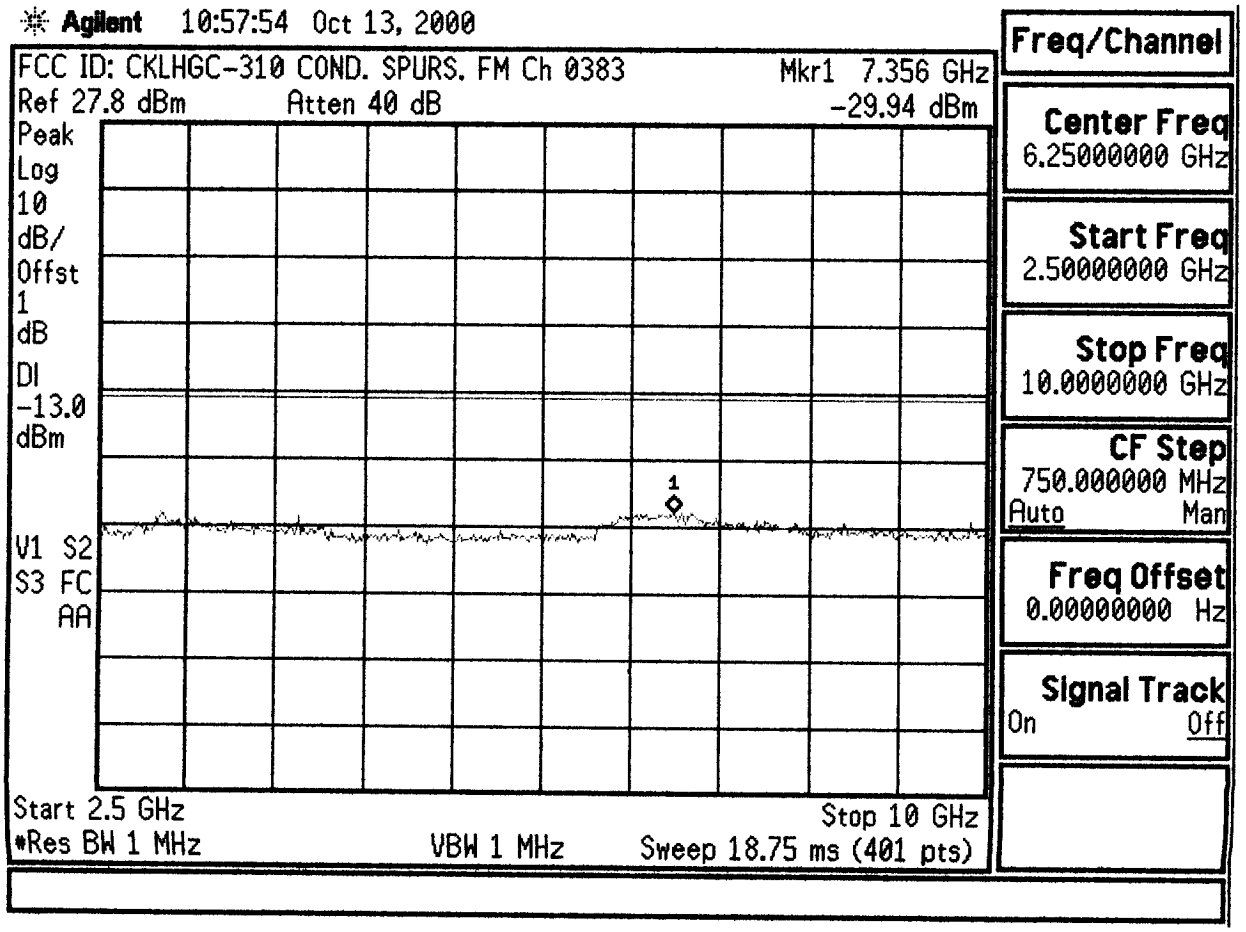
Test Mode:Voice

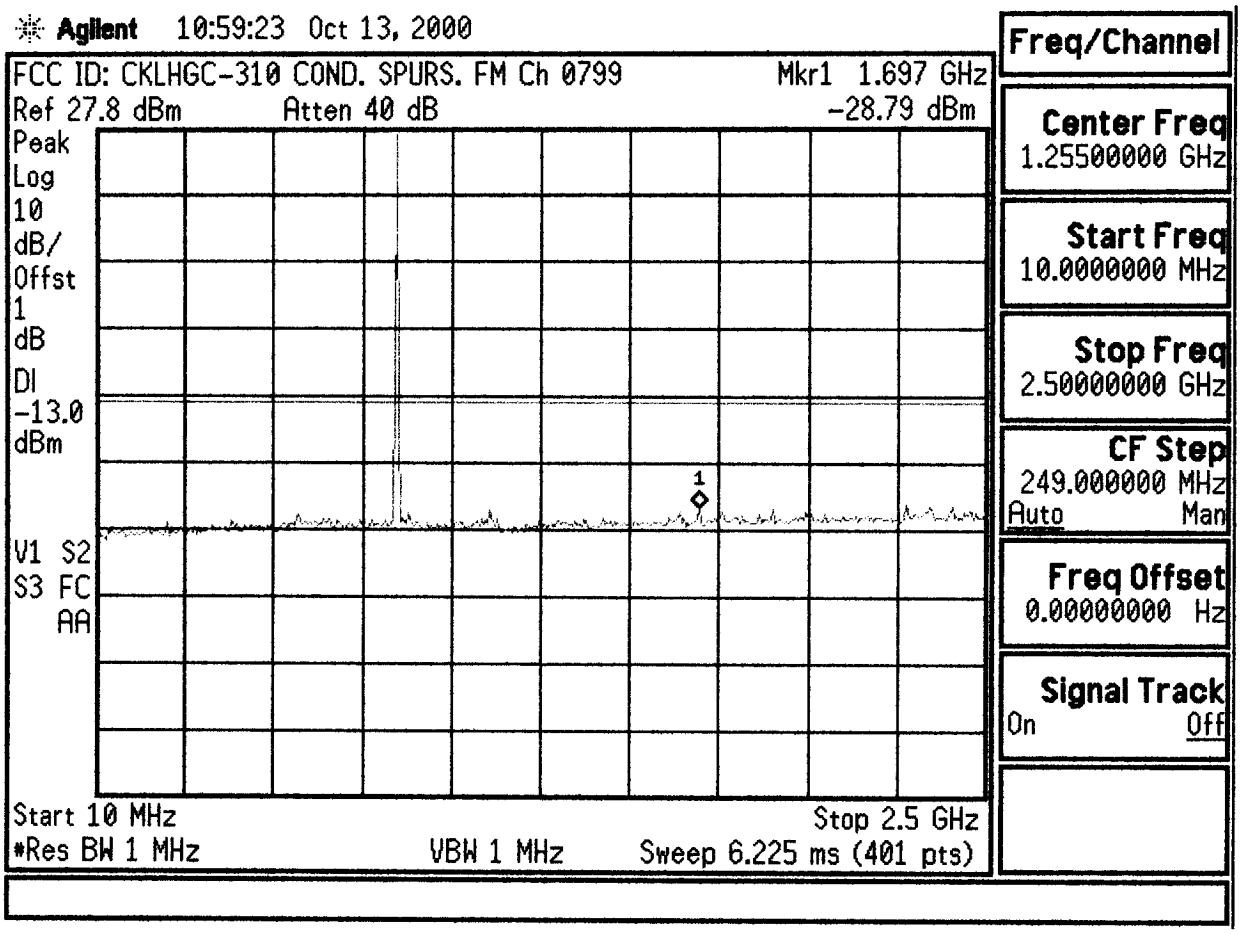


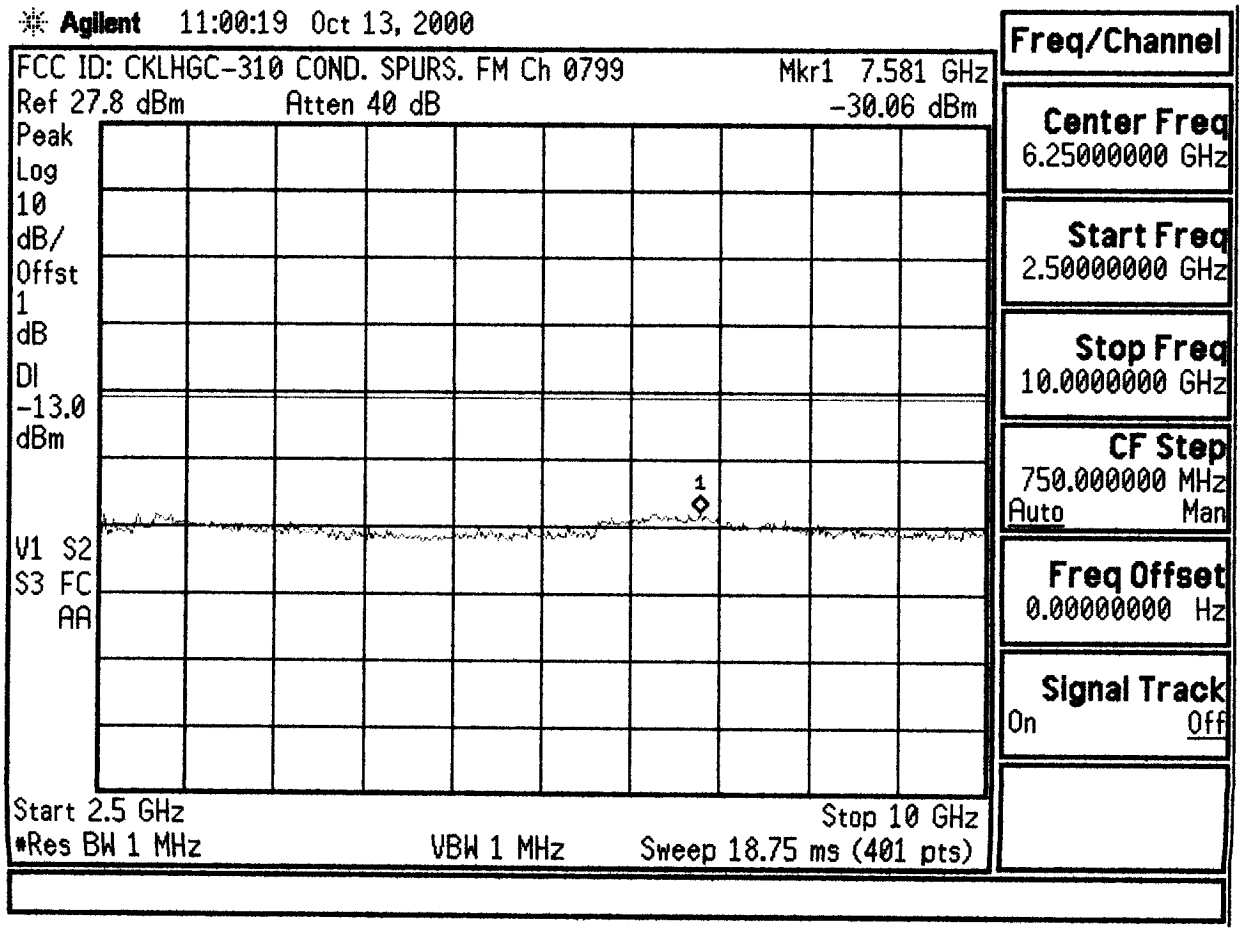

Agilent 10:53:09 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. FM Ch 991
Mkr1 1.647 GHz
Ref 27.8 dBm
Atten 40 dB
-26.46 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 6.225 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

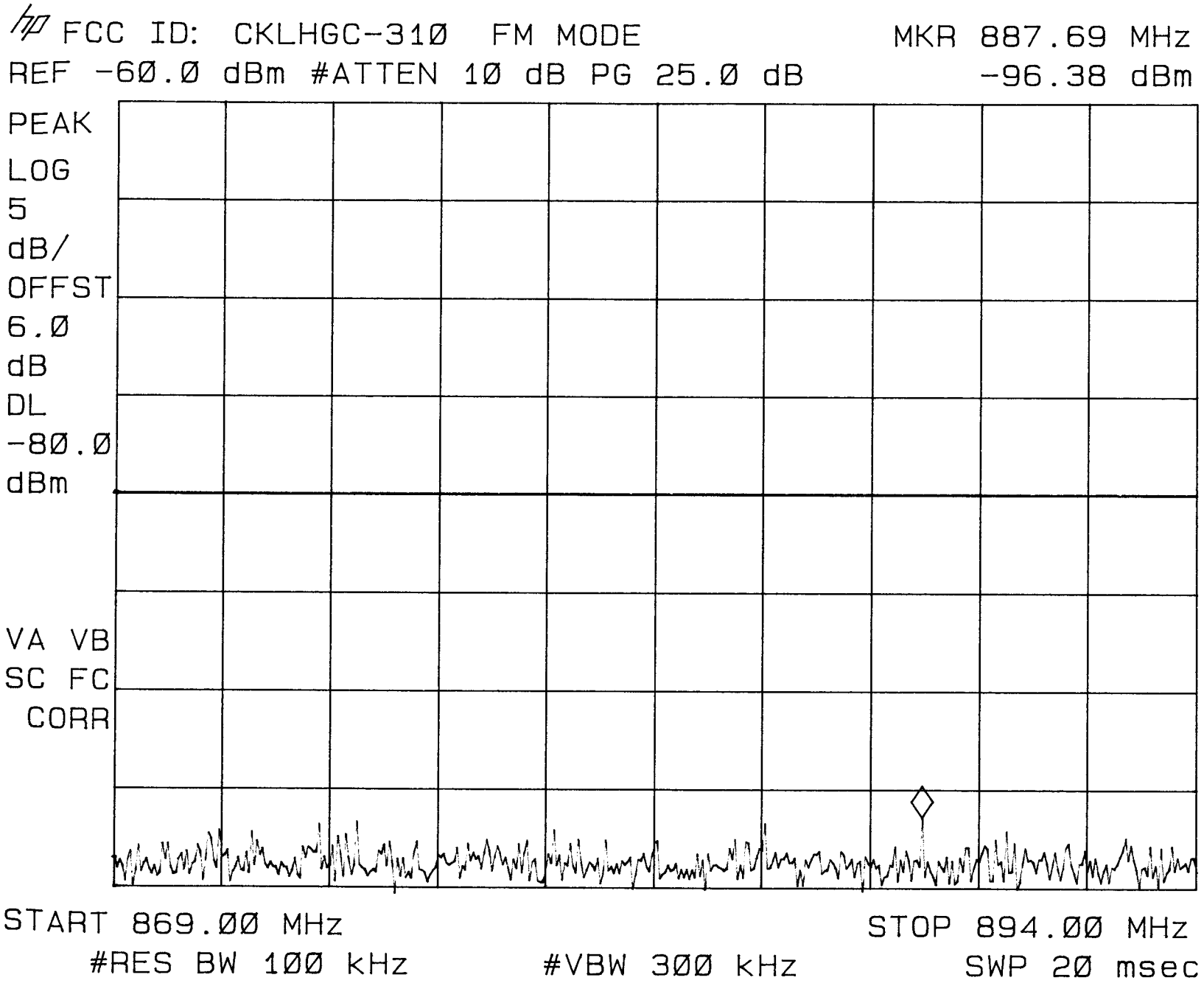

Agilent 10:54:02 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. FM Ch 991
Mkr1 7.581 GHz
Ref 27.8 dBm
Atten 40 dB
-29.96 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

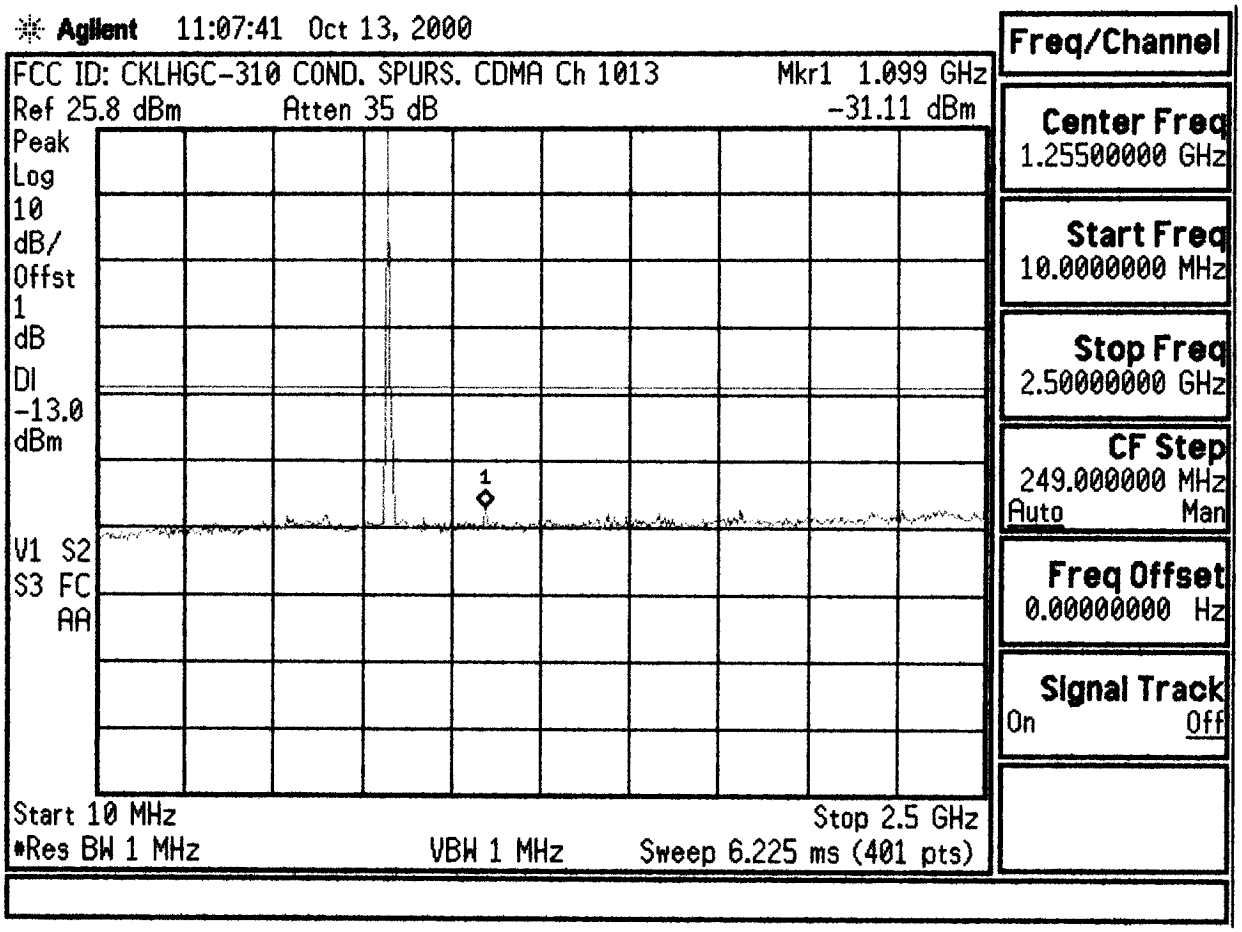

Agilent 10:56:56 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. FM Ch 0383
Mkr1 713 MHz
Ref 27.8 dBm
Atten 40 dB
-29.92 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 6.225 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

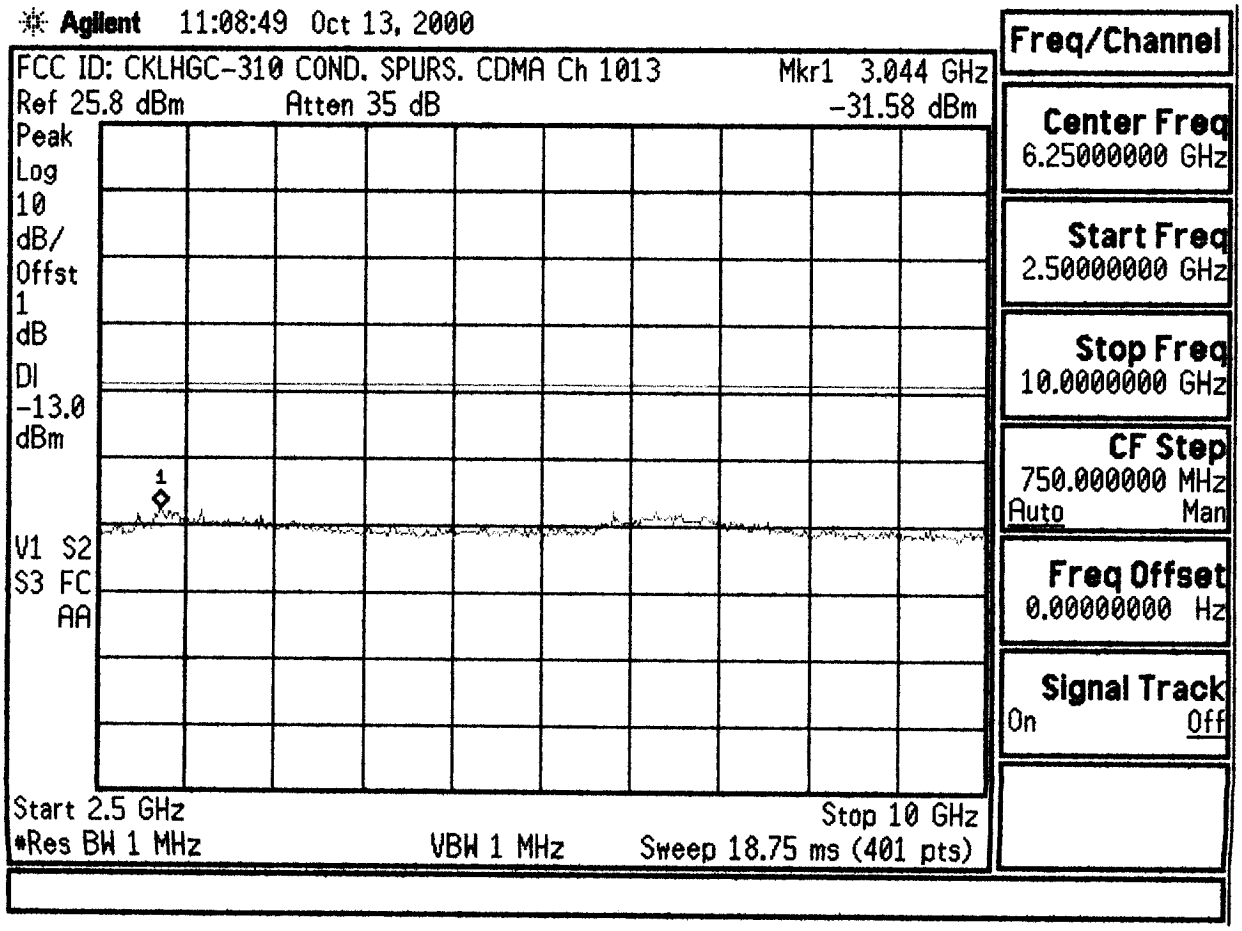

Agilent 10:57:54 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. FM Ch 0383
Mkr1 7.356 GHz
Ref 27.8 dBm
Atten 40 dB
-29.94 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

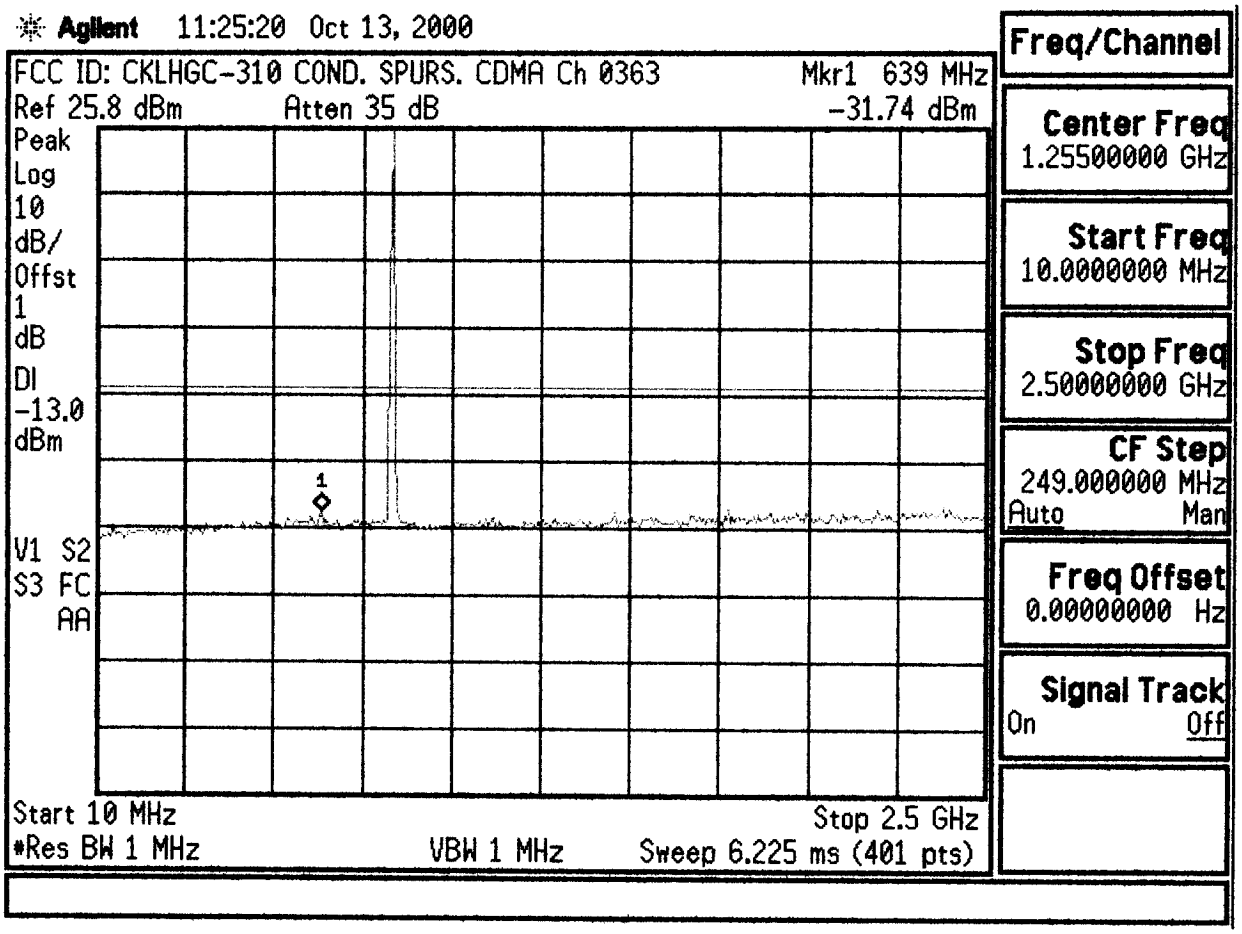

Agilent 10:59:23 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. FM Ch 0799
Mkr1 1.697 GHz
Ref 27.8 dBm
Atten 40 dB
-28.79 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 6.225 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

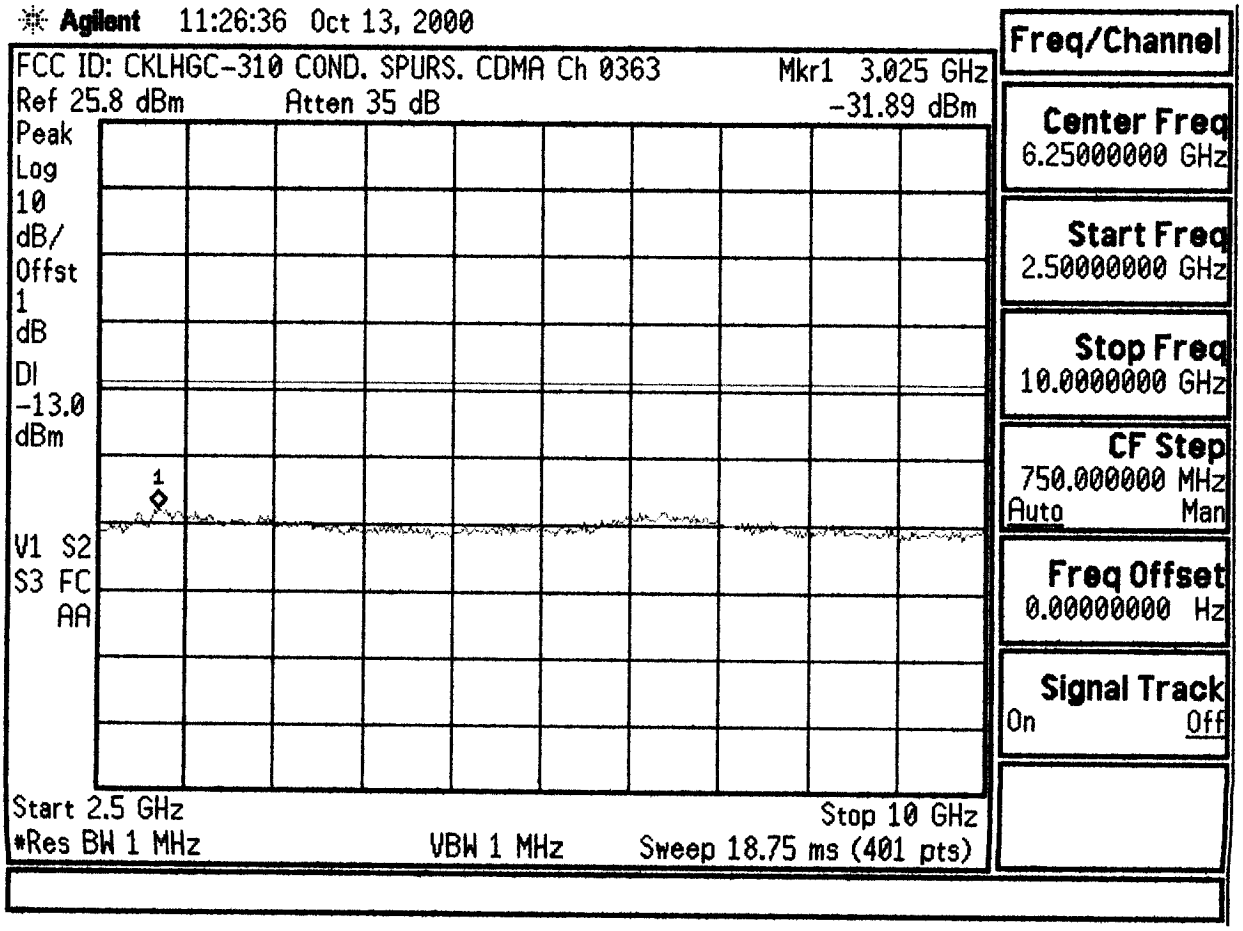

Agilent 11:00:19 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. FM Ch 0799
Mkr1 7.581 GHz
Ref 27.8 dBm
Atten 40 dB
-30.06 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

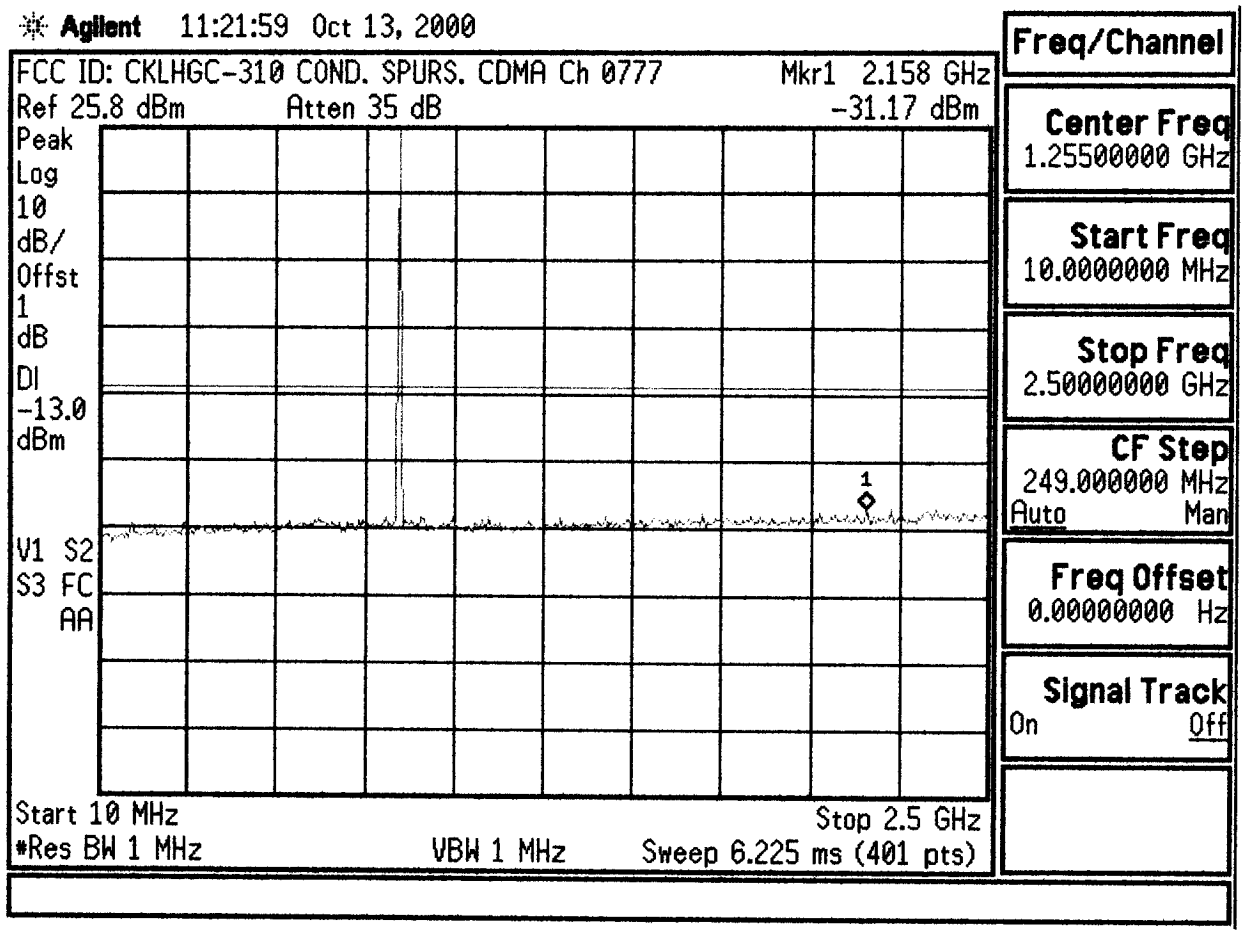

FCC ID: CKLHGC-310 FM MODE
MKR 887.69 MHz
REF -60.0 dBm #ATTEN 10 dB PG 25.0 dB
-96.38 dBm
PEAK
LOG
5
dB/
OFFST
6.0
dB
DL
-80.0
dBm
VA VB
SC FC
CORR
START 869.00 MHz
STOP 894.00 MHz
#RES BW 100 kHz
#VBW 300 kHz
SWP 20 msec

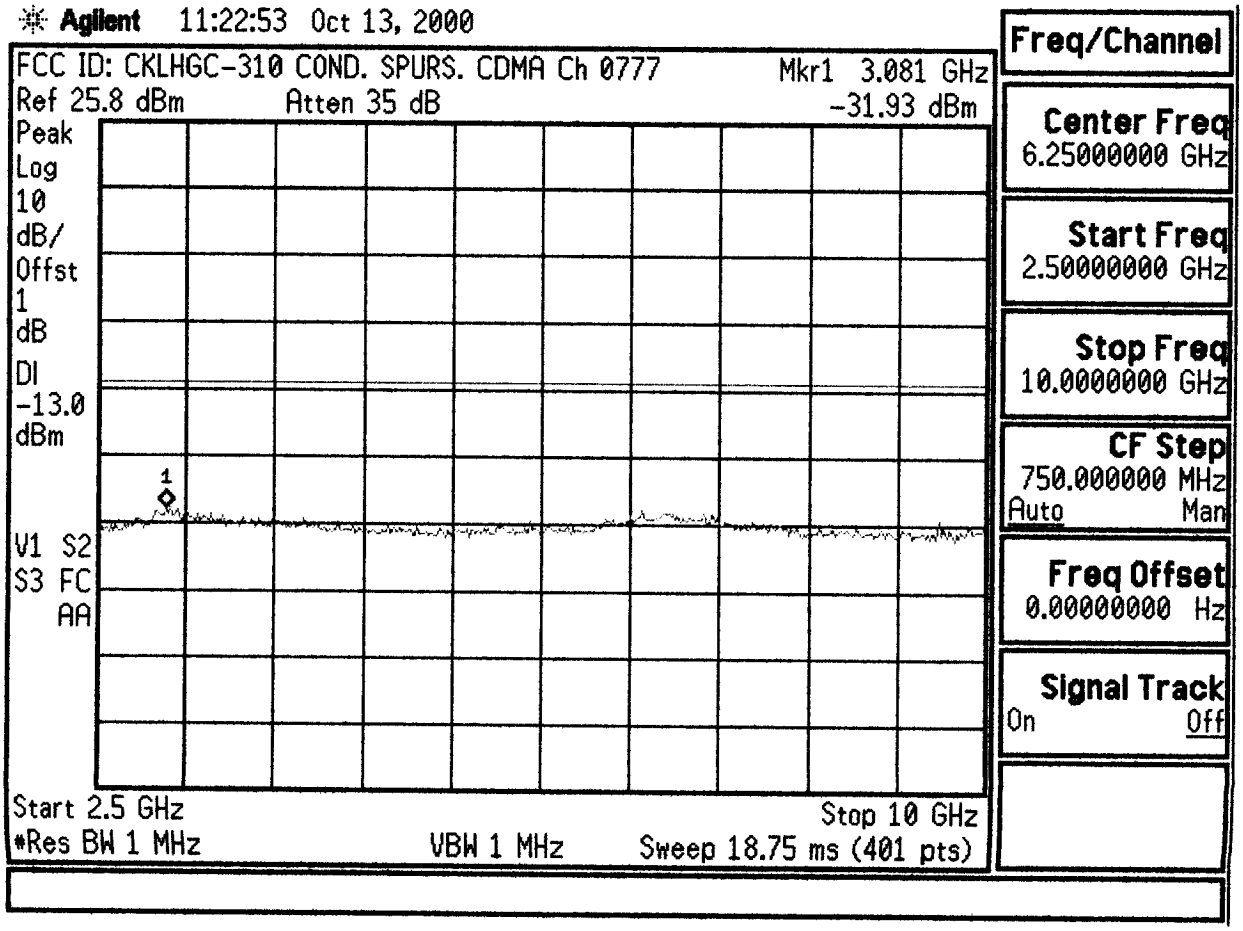

Agilent 11:07:41 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. CDMA Ch 1013
Mkr1 1.099 GHz
Ref 25.8 dBm
Atten 35 dB
-31.11 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 6.225 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

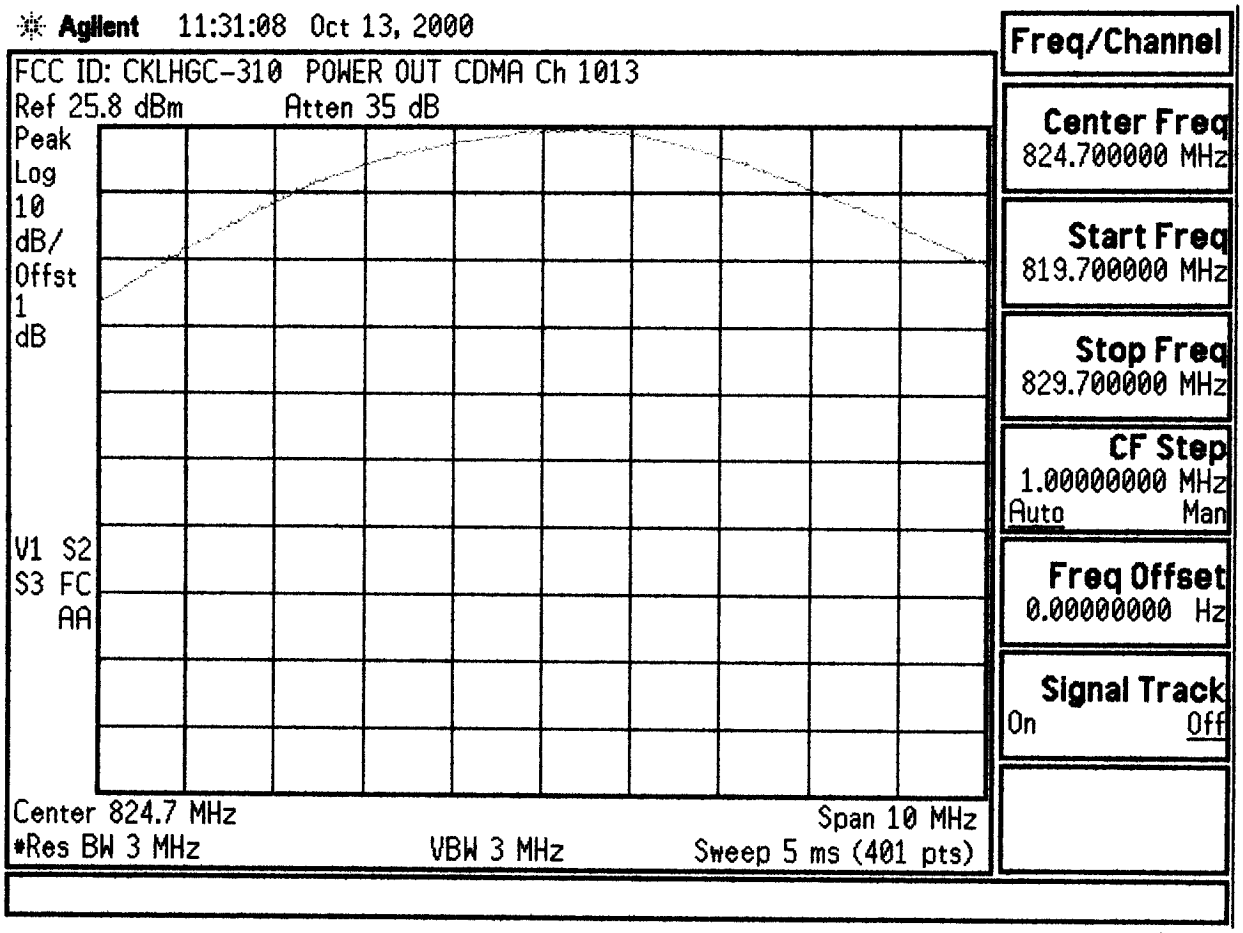

Agilent 11:08:49 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. CDMA Ch 1013
Mkr1 3.044 GHz
Ref 25.8 dBm
Atten 35 dB
-31.58 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

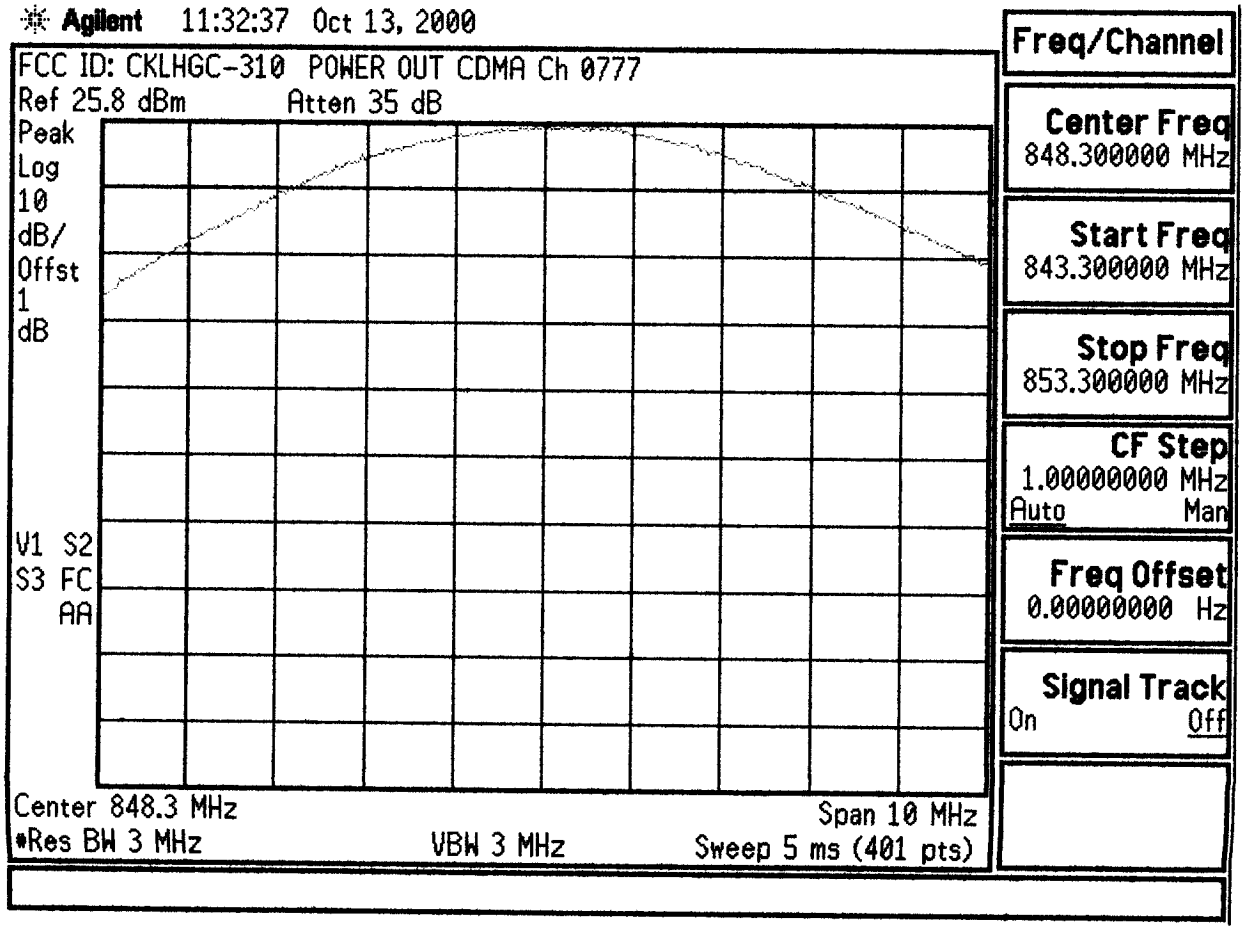

Agilent 11:25:20 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. CDMA Ch 0363
Mkr1 639 MHz
Ref 25.8 dBm
Atten 35 dB
-31.74 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 6.225 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

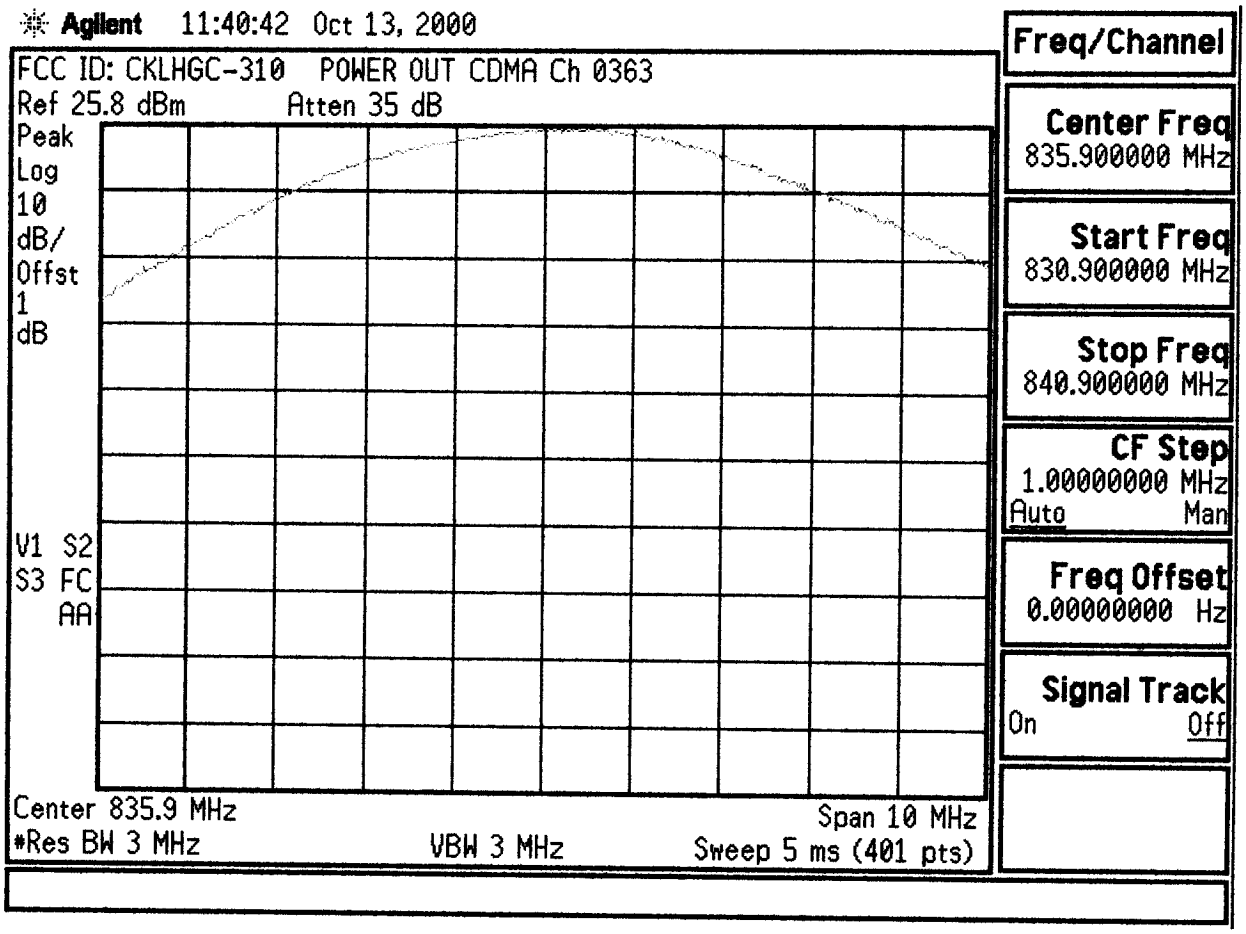

Agilent 11:26:36 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. CDMA Ch 0363
Mkr1 3.025 GHz
Ref 25.8 dBm
Atten 35 dB
-31.89 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

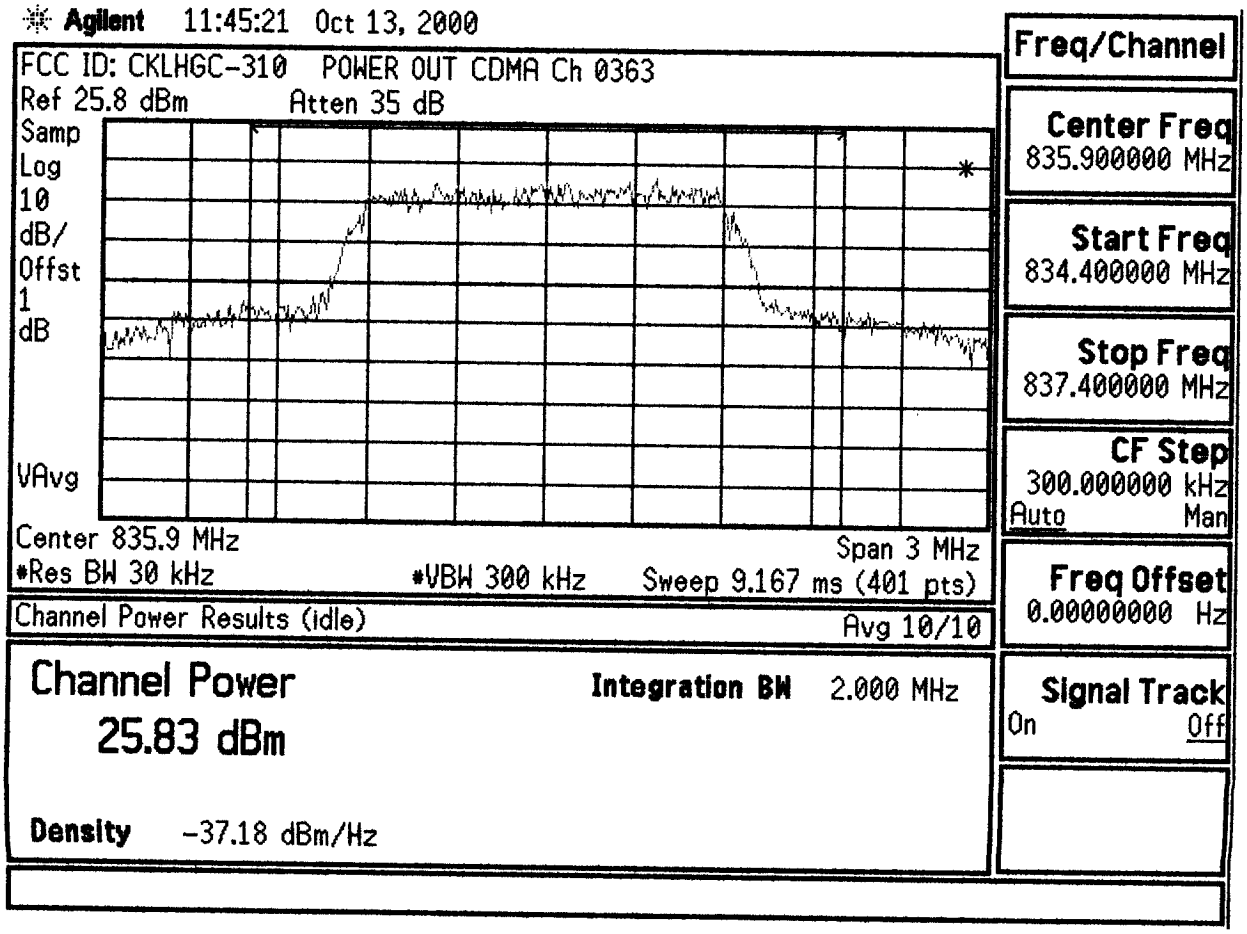

Agilent 11:21:59 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. CDMA Ch 0777
Mkr1 2.158 GHz
Ref 25.8 dBm
Atten 35 dB
-31.17 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 10 MHz
Stop 2.5 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 6.225 ms (401 pts)
Freq/Channel
Center Freq
1.25500000 GHz
Start Freq
10.0000000 MHz
Stop Freq
2.50000000 GHz
CF Step
249.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

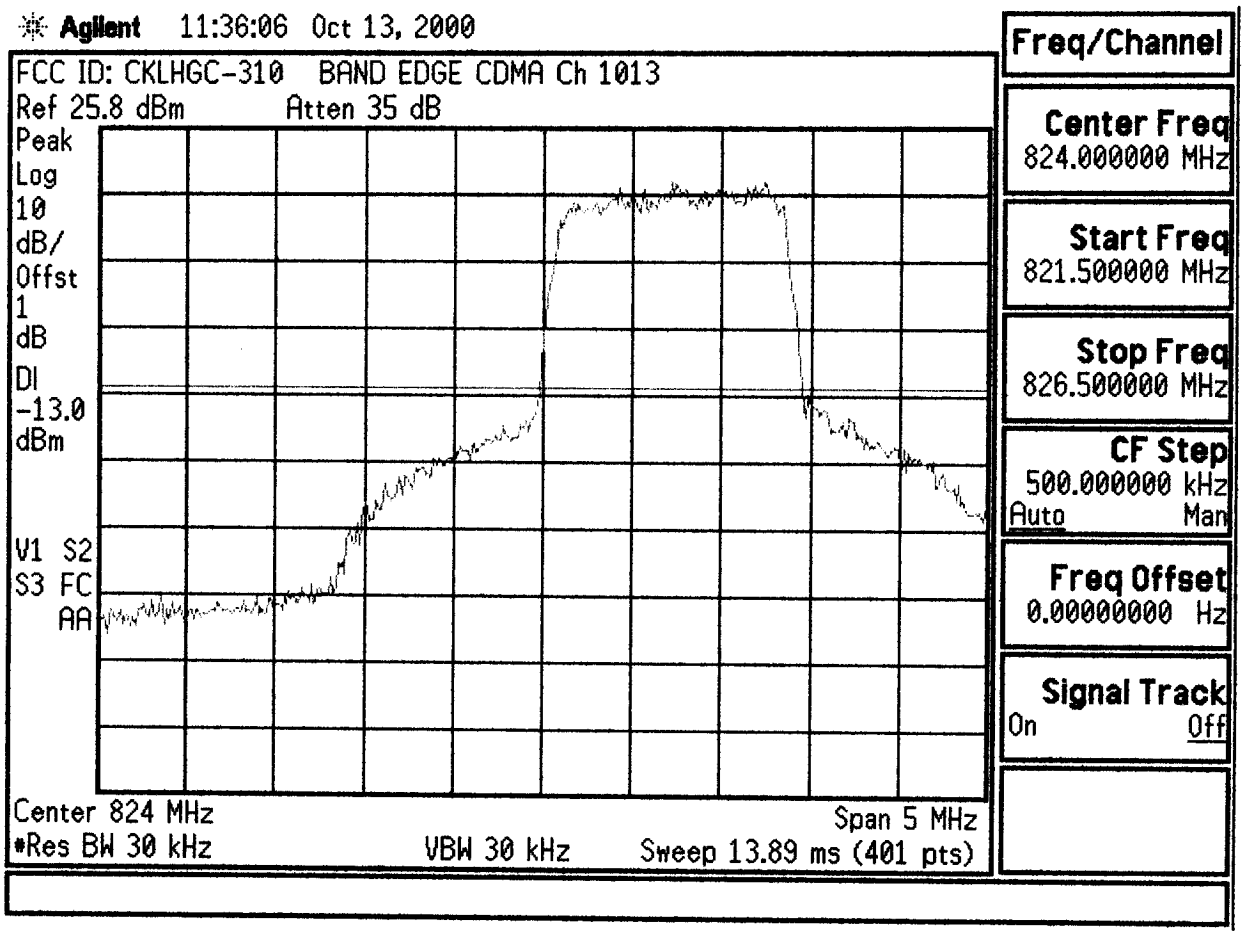

Agilent 11:22:53 Oct 13, 2000
FCC ID: CKLHGC-310 COND. SPURS. CDMA Ch 0777
Mkr1 3.081 GHz
Ref 25.8 dBm
Atten 35 dB
-31.93 dBm
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Start 2.5 GHz
Stop 10 GHz
#Res BW 1 MHz
VBW 1 MHz
Sweep 18.75 ms (401 pts)
Freq/Channel
Center Freq
6.25000000 GHz
Start Freq
2.50000000 GHz
Stop Freq
10.0000000 GHz
CF Step
750.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

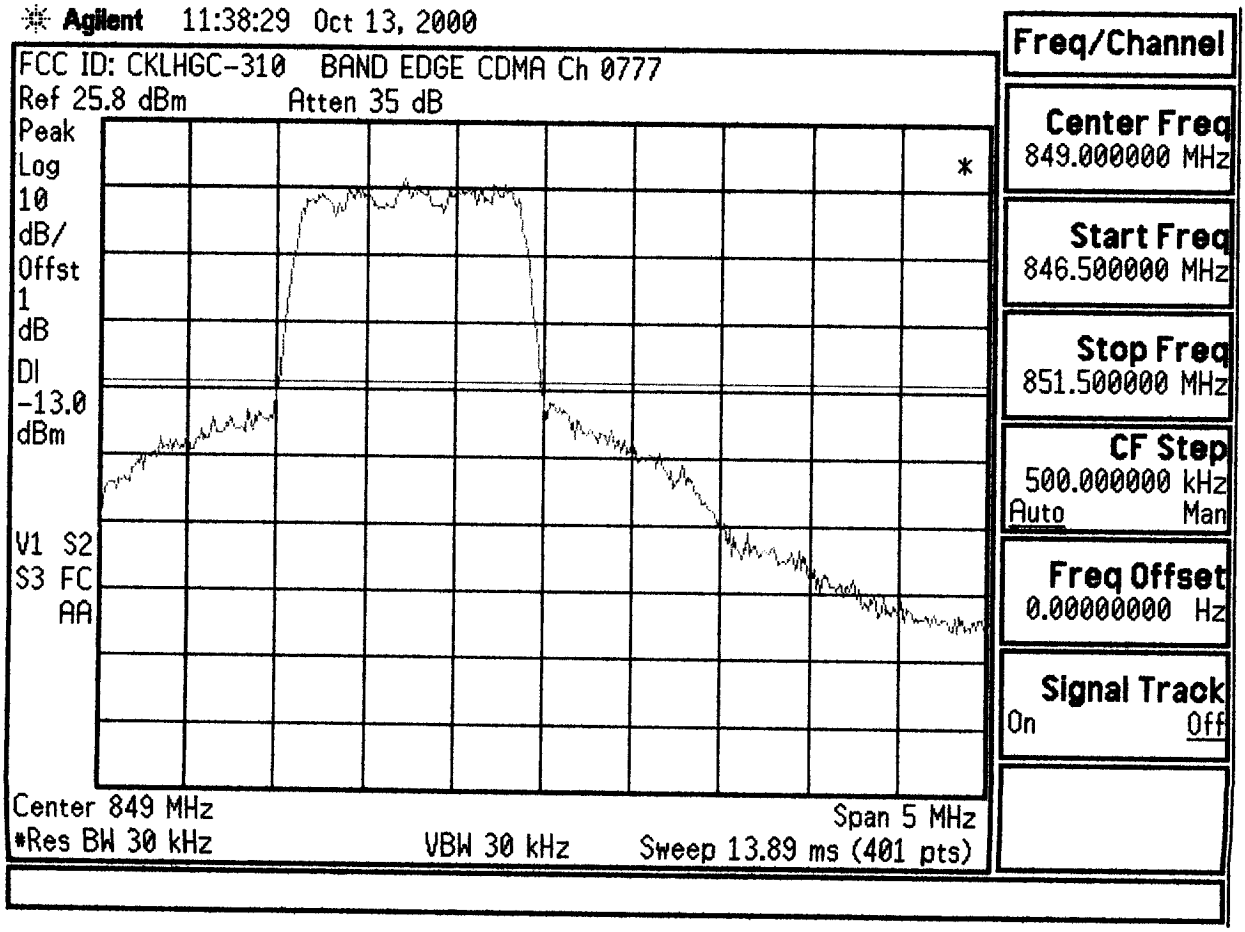

Agilent 11:31:08 Oct 13, 2000
FCC ID: CKLHGC-310 POWER OUT CDMA Ch 1013
Ref 25.8 dBm
Atten 35 dB
Peak
Log
10
dB/
Offst
1
dB
V1 S2
S3 FC
AA
Center 824.7 MHz
#Res BW 3 MHz
VBW 3 MHz
Span 10 MHz
Sweep 5 ms (401 pts)
Freq/Channel
Center Freq
824.700000 MHz
Start Freq
819.700000 MHz
Stop Freq
829.700000 MHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent 11:32:37 Oct 13, 2000
FCC ID: CKLHGC-310 POWER OUT CDMA Ch 0777
Ref 25.8 dBm
Atten 35 dB
Peak
Log
10
dB/
Offst
1
dB
V1 S2
S3 FC
AA
Center 848.3 MHz
#Res BW 3 MHz
VBW 3 MHz
Span 10 MHz
Sweep 5 ms (401 pts)
Freq/Channel
Center Freq
848.300000 MHz
Start Freq
843.300000 MHz
Stop Freq
853.300000 MHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent 11:40:42 Oct 13, 2000
FCC ID: CKLHGC-310 POWER OUT CDMA Ch 0363
Ref 25.8 dBm
Atten 35 dB
Peak
Log
10
dB/
Offst
1
dB
V1 S2
S3 FC
AA
Center 835.9 MHz
#Res BW 3 MHz
VBW 3 MHz
Span 10 MHz
Sweep 5 ms (401 pts)
Freq/Channel
Center Freq
835.900000 MHz
Start Freq
830.900000 MHz
Stop Freq
840.900000 MHz
CF Step
1.00000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent 11:45:21 Oct 13, 2000
FCC ID: CKLHGC-310 POWER OUT CDMA Ch 0363
Ref 25.8 dBm
Atten 35 dB
Samp
Log
10
dB/
Offst
1
dB
VAvg
Center 835.9 MHz
#Res BW 30 kHz
#VBW 300 kHz
Span 3 MHz
Sweep 9.167 ms (401 pts)
Channel Power Results (idle)
Avg 10/10
Channel Power
25.83 dBm
Integration BW 2.000 MHz
Density -37.18 dBm/Hz
Freq/Channel
Center Freq
835.900000 MHz
Start Freq
834.400000 MHz
Stop Freq
837.400000 MHz
CF Step
300.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent 11:36:06 Oct 13, 2000
FCC ID: CKLHGC-310 BAND EDGE CDMA Ch 1013
Ref 25.8 dBm Atten 35 dB
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Center 824 MHz
#Res BW 30 kHz
VBW 30 kHz
Span 5 MHz
Sweep 13.89 ms (401 pts)
Freq/Channel
Center Freq
824.000000 MHz
Start Freq
821.500000 MHz
Stop Freq
826.500000 MHz
CF Step
500.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent 11:38:29 Oct 13, 2000
FCC ID: CKLHGC-310 BAND EDGE CDMA Ch 0777
Ref 25.8 dBm Atten 35 dB
Peak
Log
10
dB/
Offst
1
dB
Dl
-13.0
dBm
V1 S2
S3 FC
AA
Center 849 MHz
#Res BW 30 kHz
VBW 30 kHz
Span 5 MHz
Sweep 13.89 ms (401 pts)
Freq/Channel
Center Freq
849.000000 MHz
Start Freq
846.500000 MHz
Stop Freq
851.500000 MHz
CF Step
500.000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off