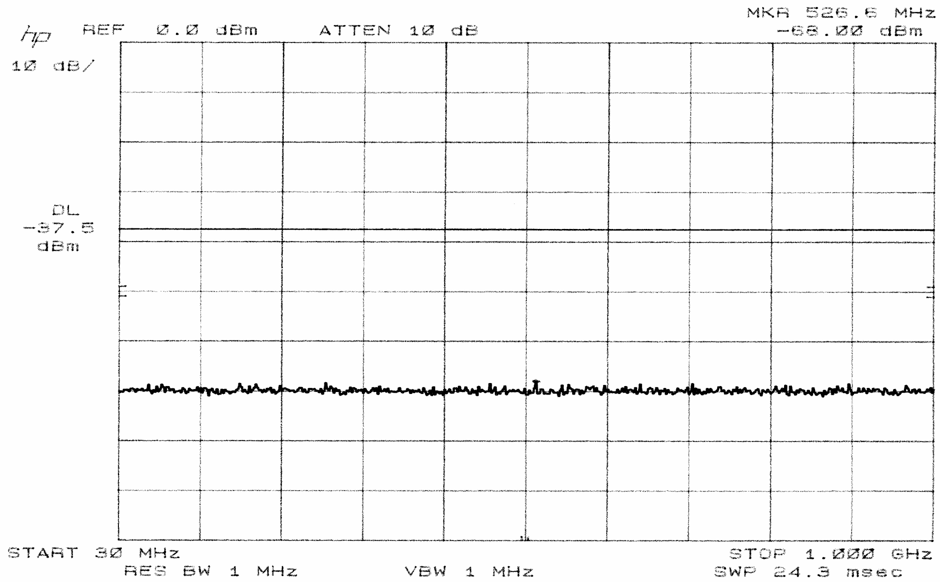
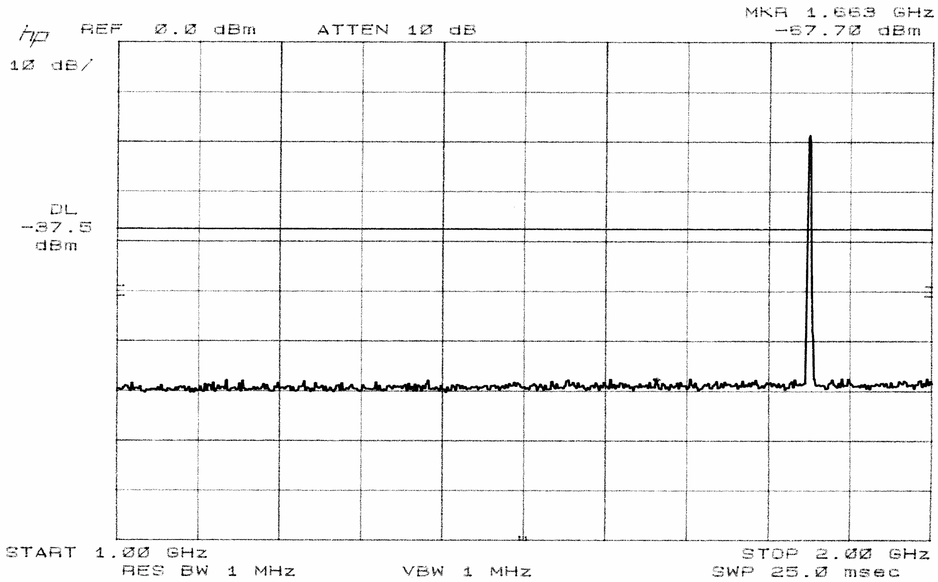
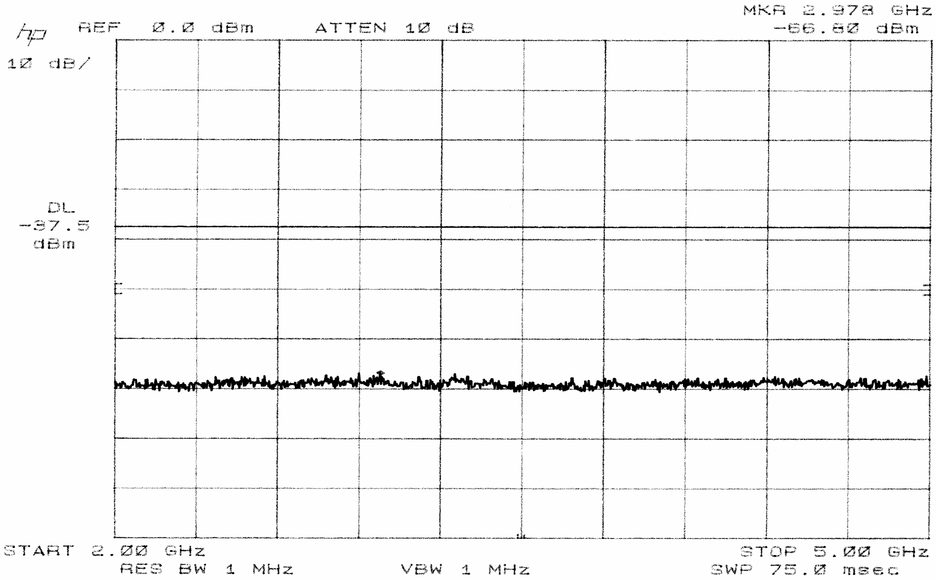
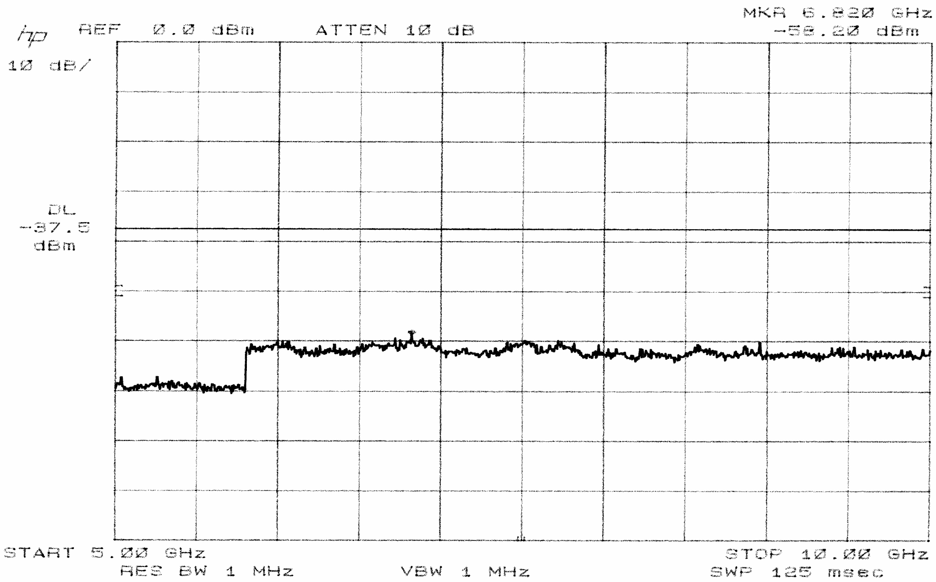
Channel 512

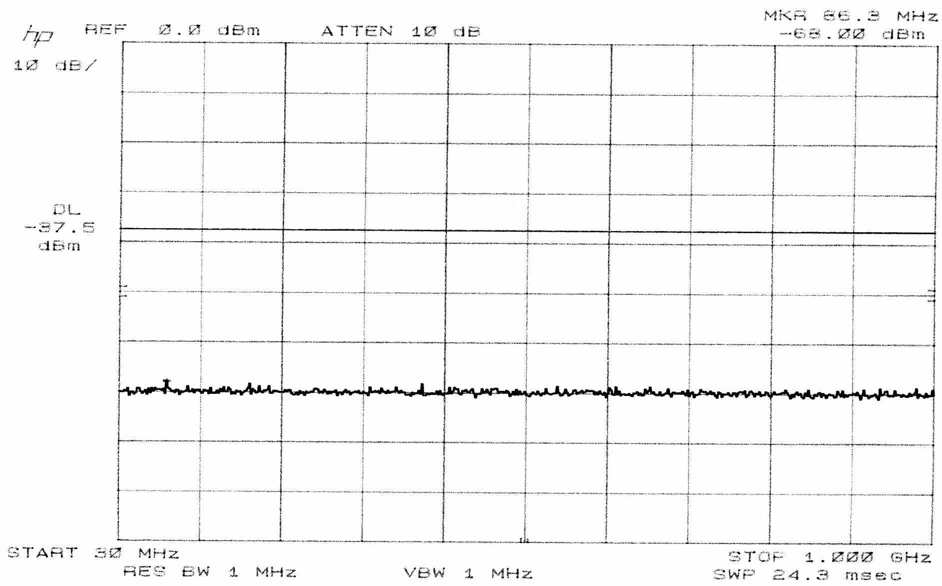

hp REF 0.0 dBm ATTEN 10 dB
MKR 526.6 MHz
-68.00 dBm
10 dB/
DL
-37.5
dBm
START 30 MHz
STOP 1.000 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 24.3 msec

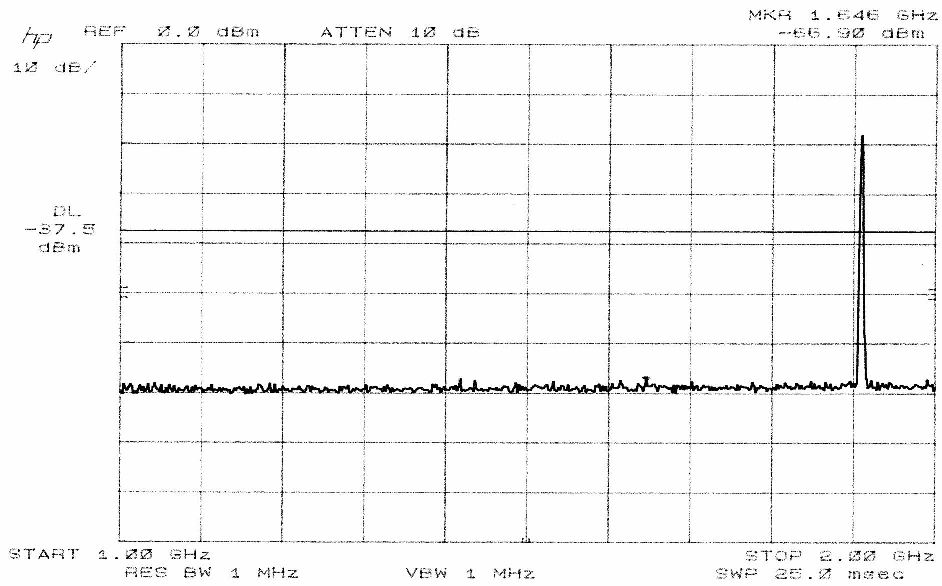

hp REF 0.0 dBm ATTEN 10 dB
MKR 1.663 GHz
-67.70 dBm
10 dB/
DL
-37.5
dBm
START 1.00 GHz
STOP 2.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 25.0 msec

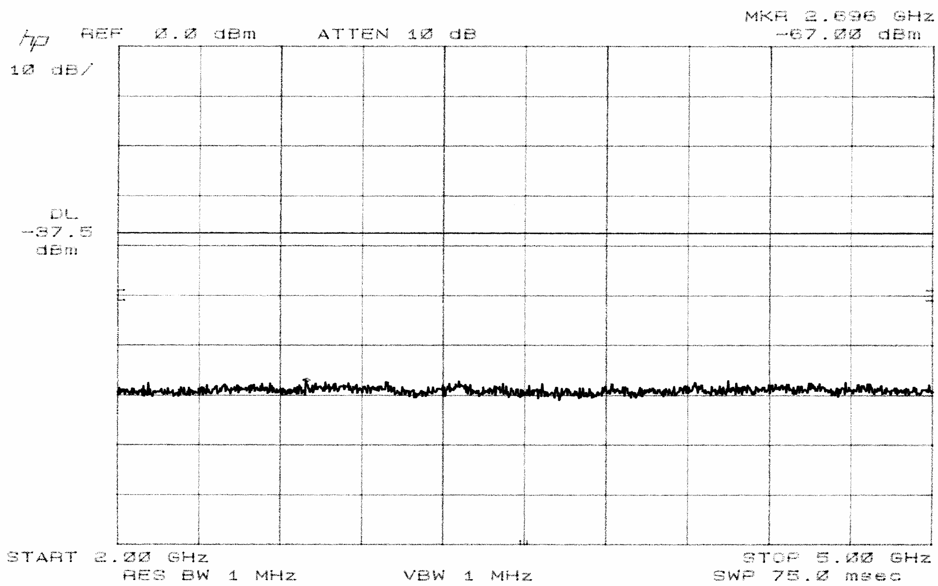

hp REF 0.0 dBm ATTEN 10 dB
MKR 2.978 GHz
-66.60 dBm
10 dB/
DL
-37.5
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec

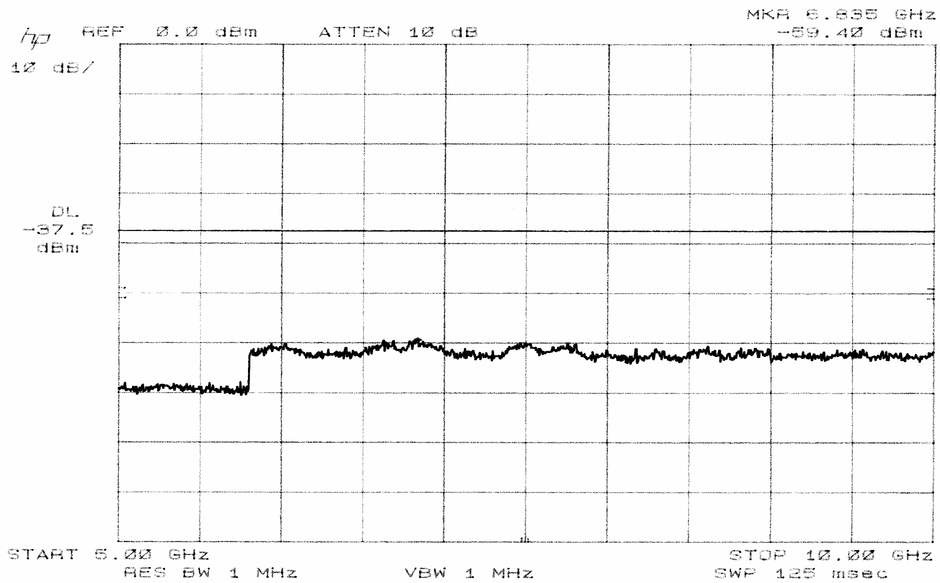

hp REF 0.0 dBm ATTEN 10 dB
MKR 6.820 GHz
-58.20 dBm
10 dB/
DL
-37.5
dBm
START 5.00 GHz
STOP 10.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 125 msec

Channel 810

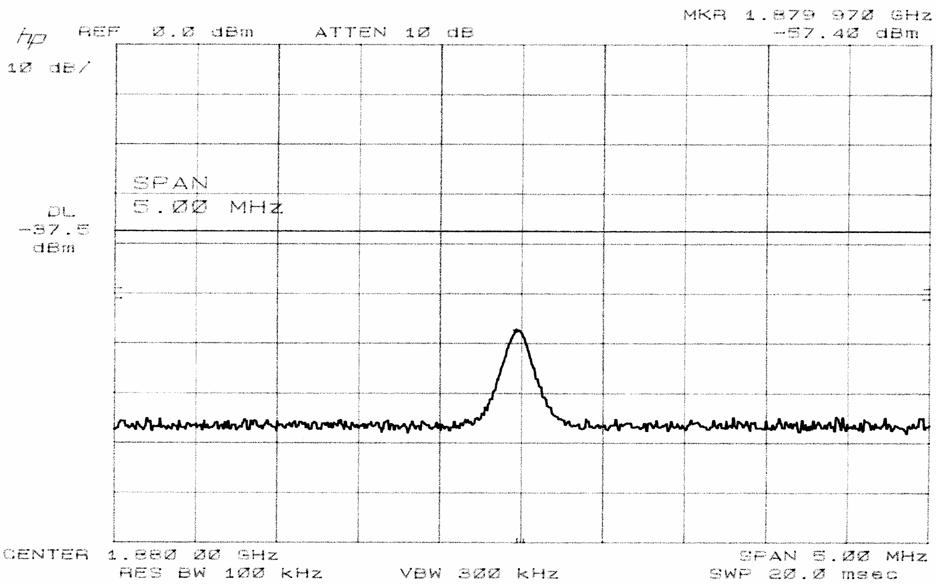

hp
REF 0.0 dBm
ATTEN 10 dB
MKR 66.3 MHz
-68.00 dBm
10 dB/
DL
-37.5
dBm
START 30 MHz
RES BW 1 MHz
VBW 1 MHz
STOP 1.000 GHz
SWP 24.3 msec

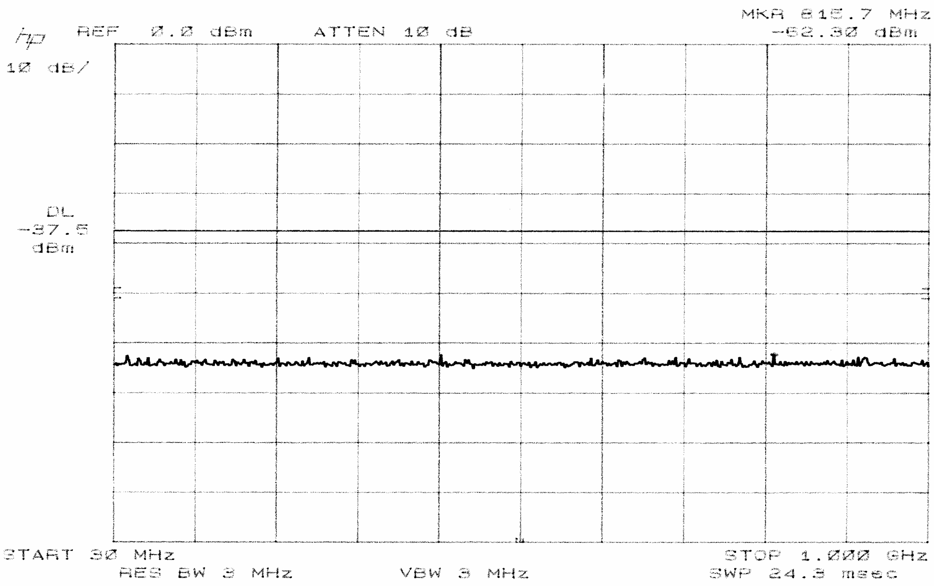

hp
REF 0.0 dBm
ATTEN 10 dB
MKR 1.646 GHz
-66.90 dBm
10 dB/
DL
-37.5
dBm
START 1.00 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 2.00 GHz
SWP 25.0 msec

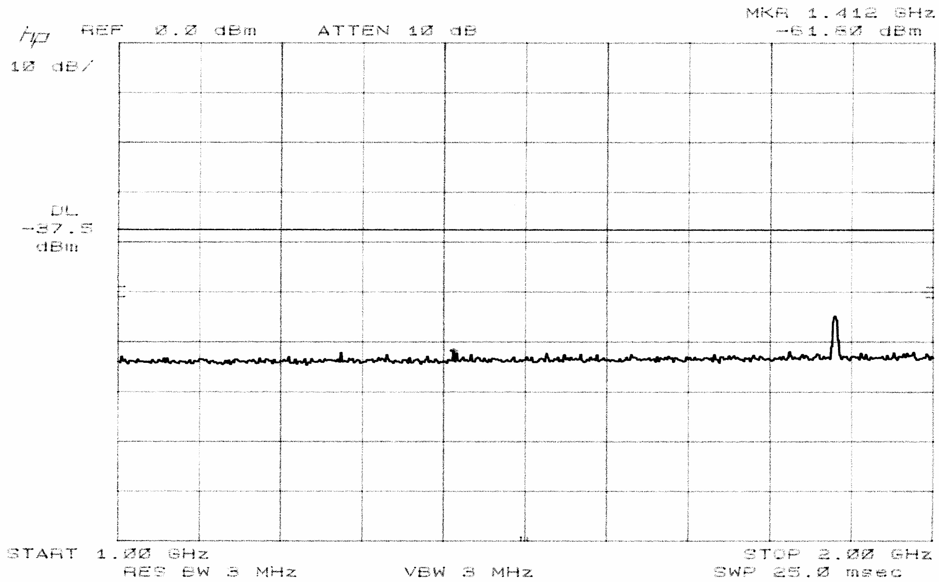

MKR 2.696 GHz
-67.00 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-37.5
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec

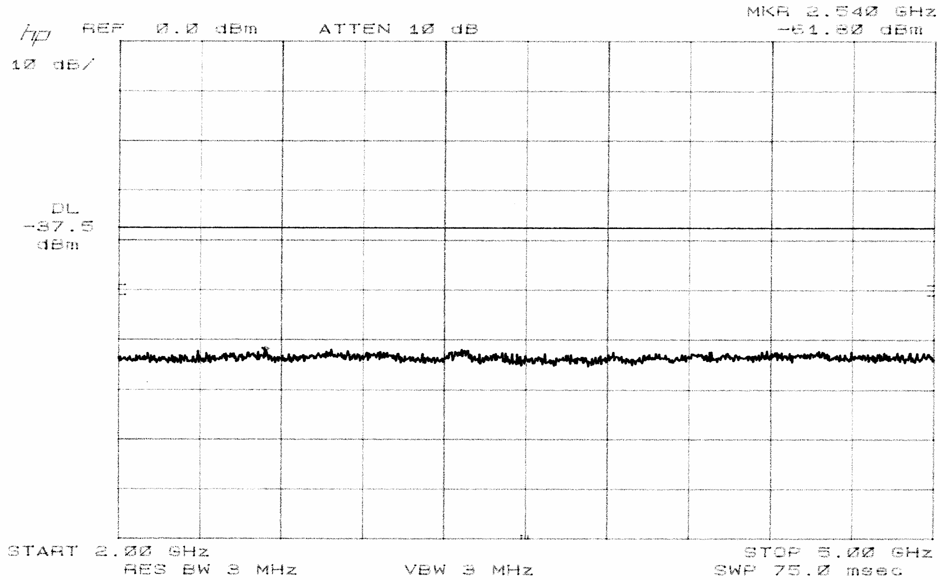

MKR 6.835 GHz
-59.40 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-37.5
dBm
START 5.00 GHz
STOP 10.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 125 msec

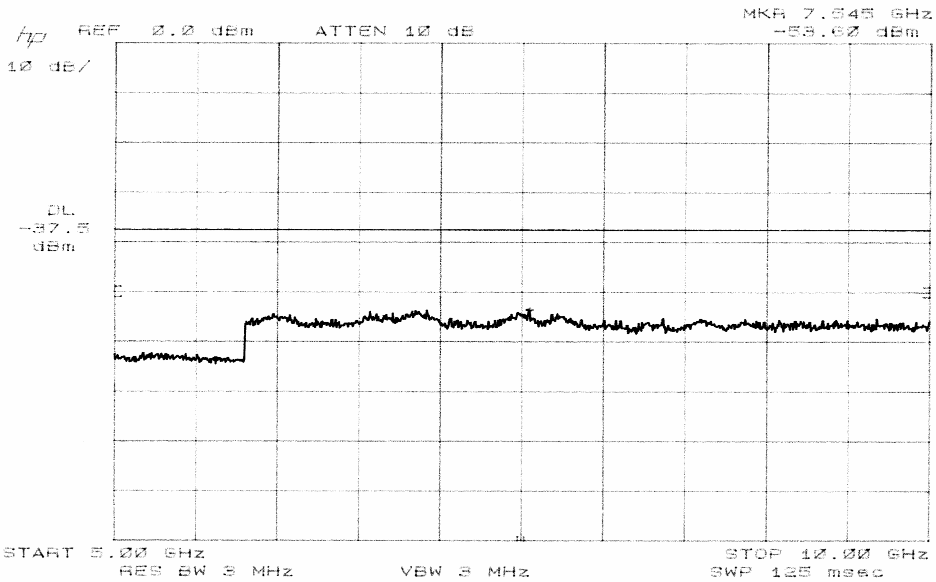
Channel 661, low power



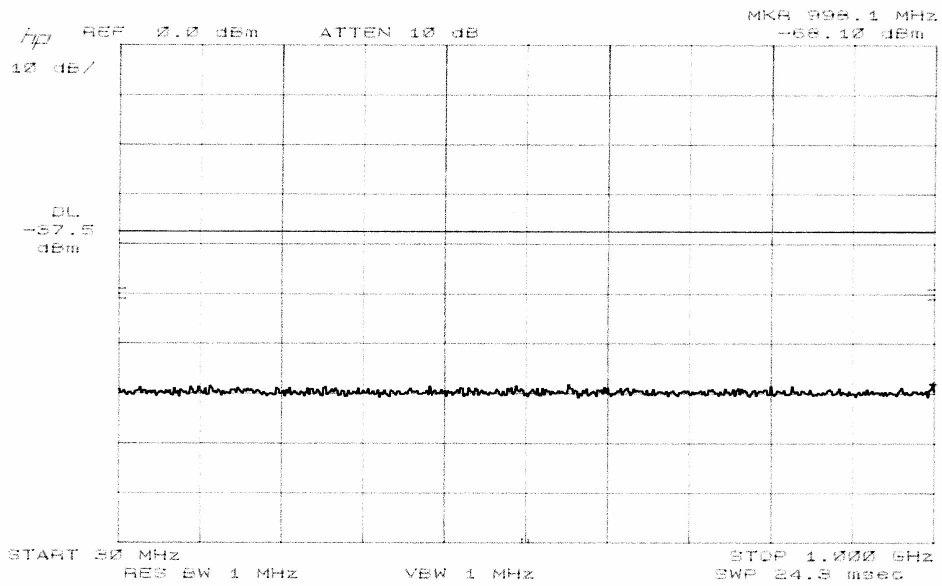


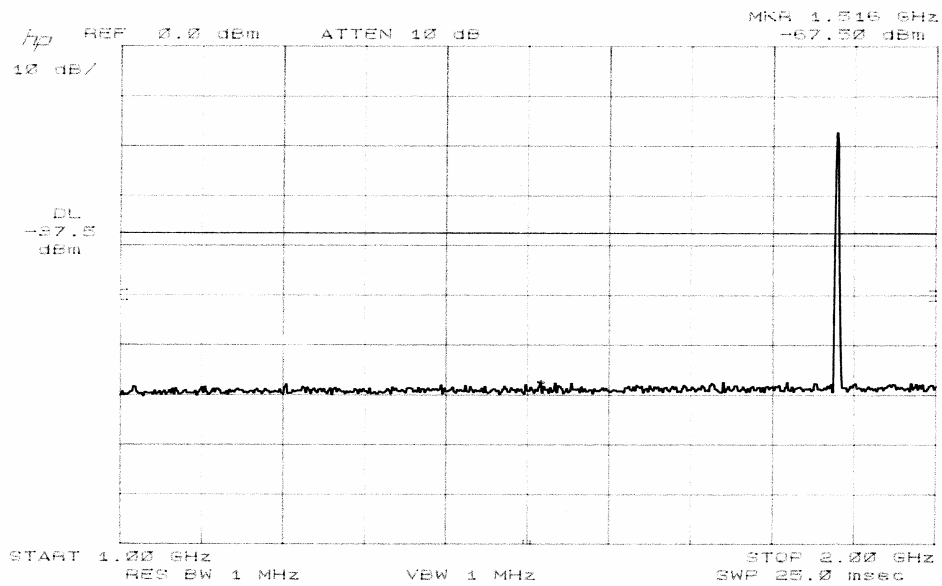

REF 0.0 dBm
ATTEN 10 dB
MKR 1.412 GHz
-61.80 dBm
10 dB/
DL
-37.5
dBm
START 1.00 GHz
STOP 2.00 GHz
RES BW 3 MHz
VBW 3 MHz
SWP 25.0 msec

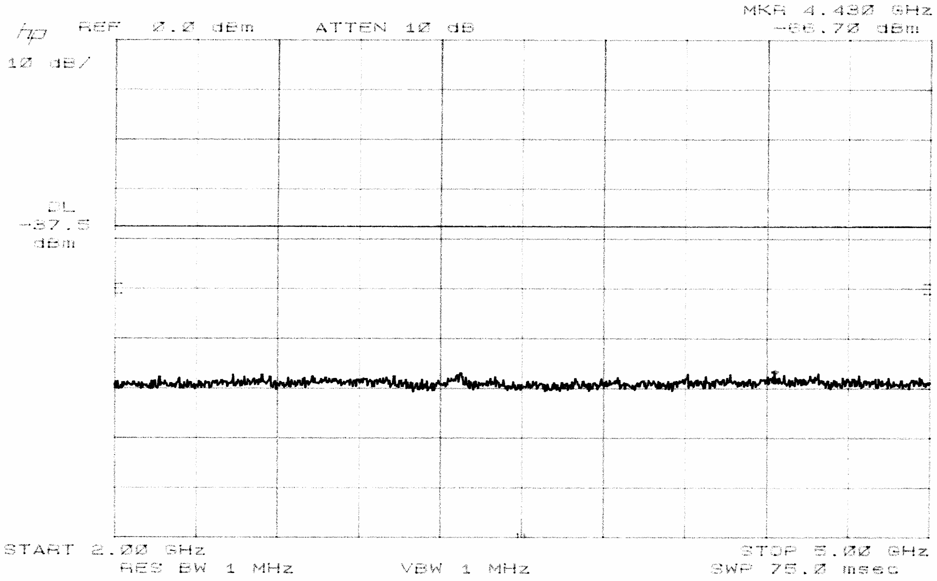

REF 0.0 dBm
ATTEN 10 dB
MKR 2.540 GHz
-61.80 dBm
10 dB/
DL
-37.5
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 3 MHz
VBW 3 MHz
SWP 75.0 msec

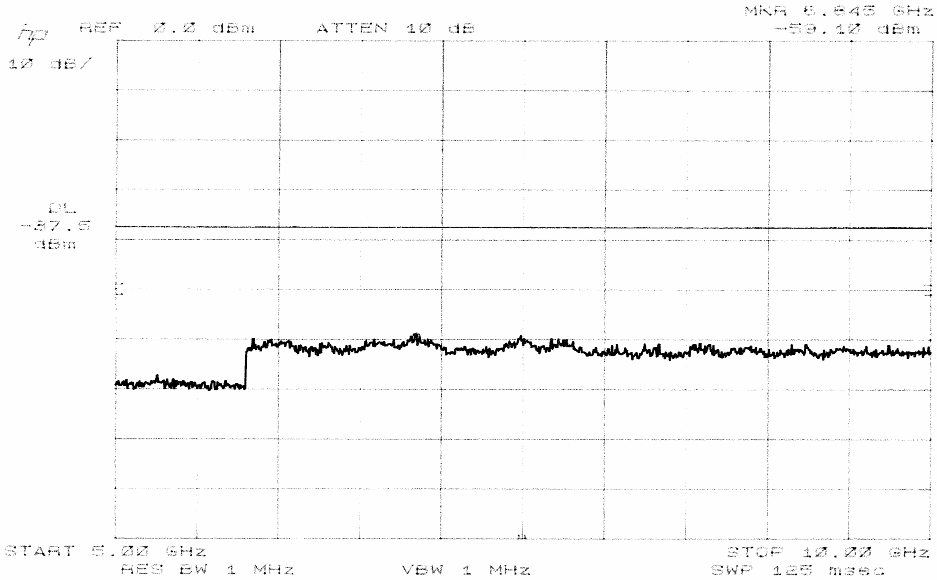

hp REF Ø.Ø dBm ATTEN 1Ø dB
MKR 7.545 GHz
-53.6Ø dBm
1Ø dB/
DL
-37.5
dBm
START 5.ØØ GHz
RES BW 3 MHz
VBW 3 MHz
STOP 1Ø.ØØ GHz
SWP 125 msec

Channel 661, donor 2

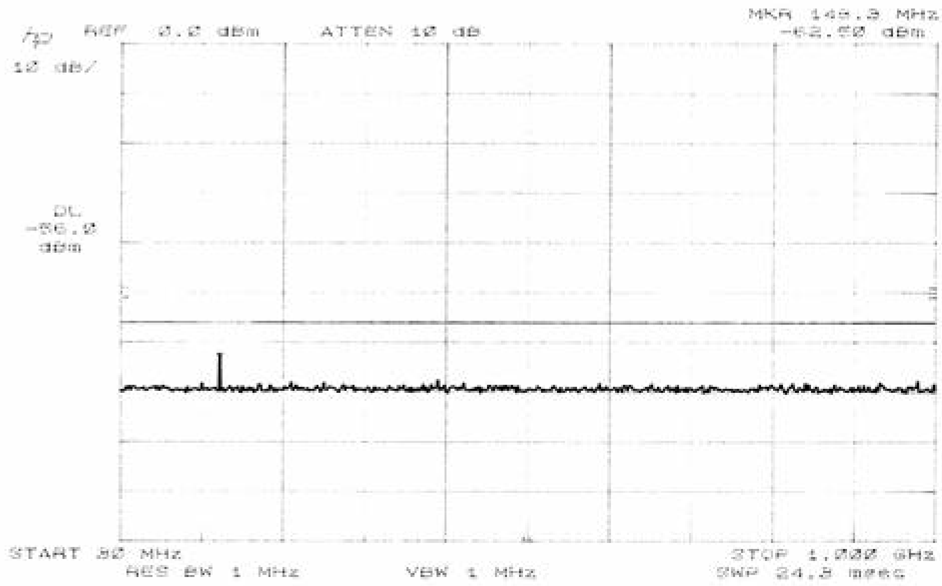


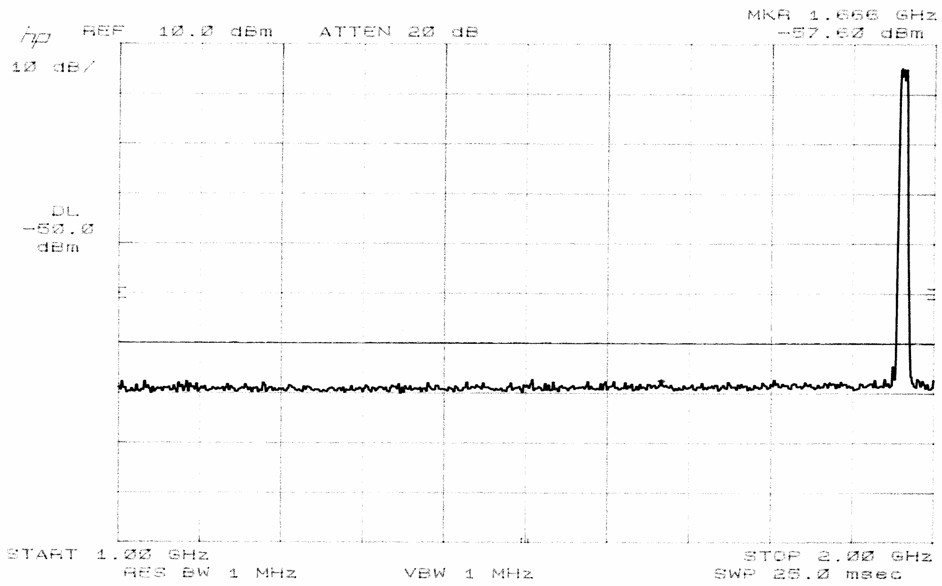


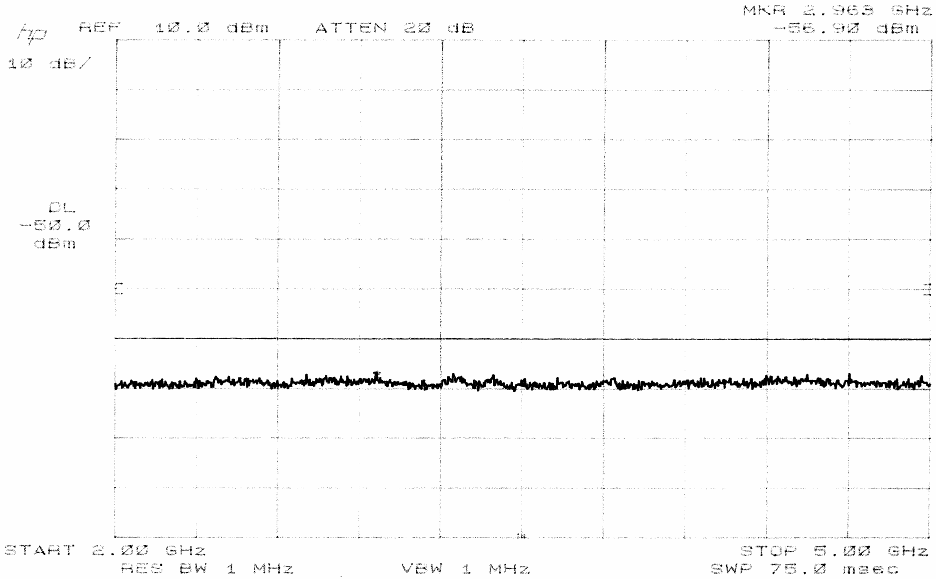

MKR 4.430 GHz
-66.70 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-37.5
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec

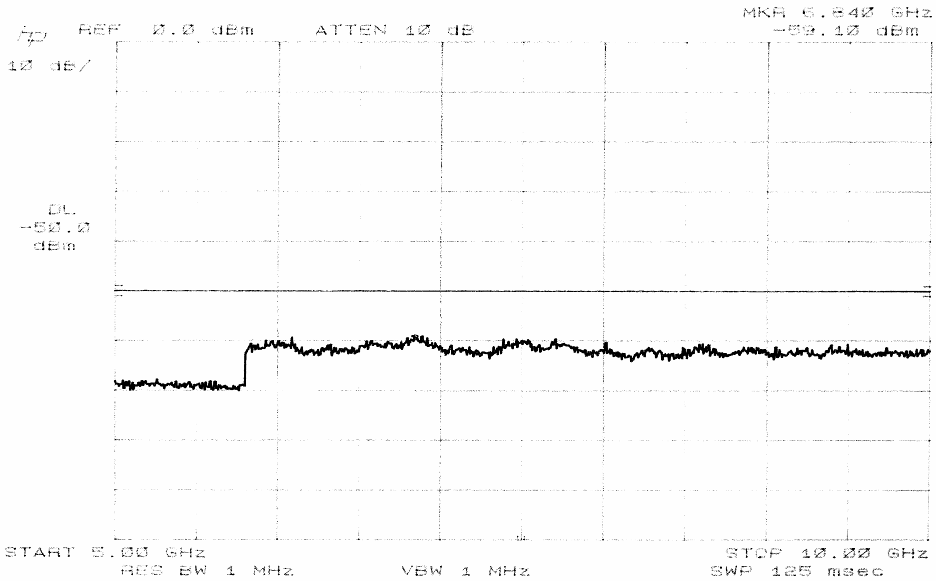

MKR 6.845 GHz
-59.10 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-37.5
dBm
START 5.00 GHz
STOP 10.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 125 msec

CSFT 1922-ER, Downlink, channel 661

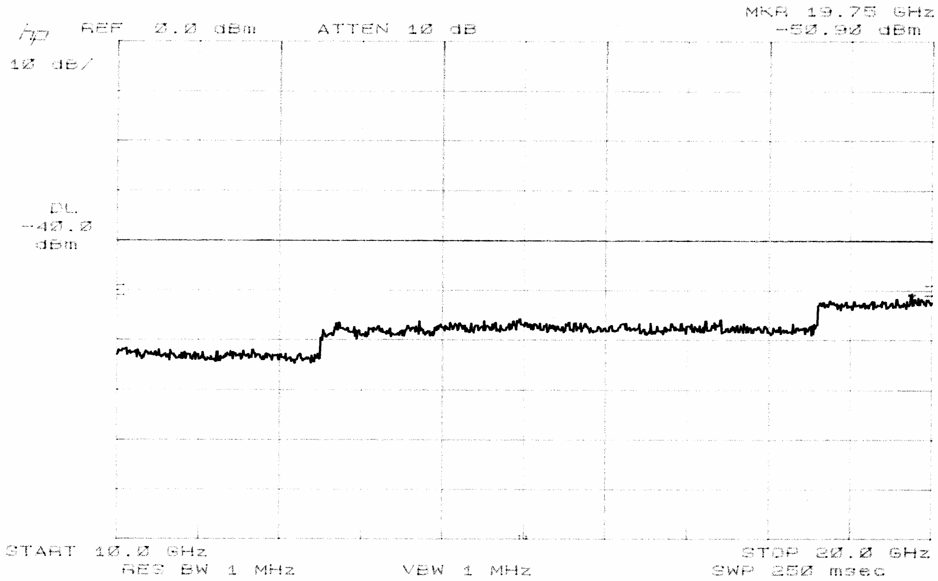




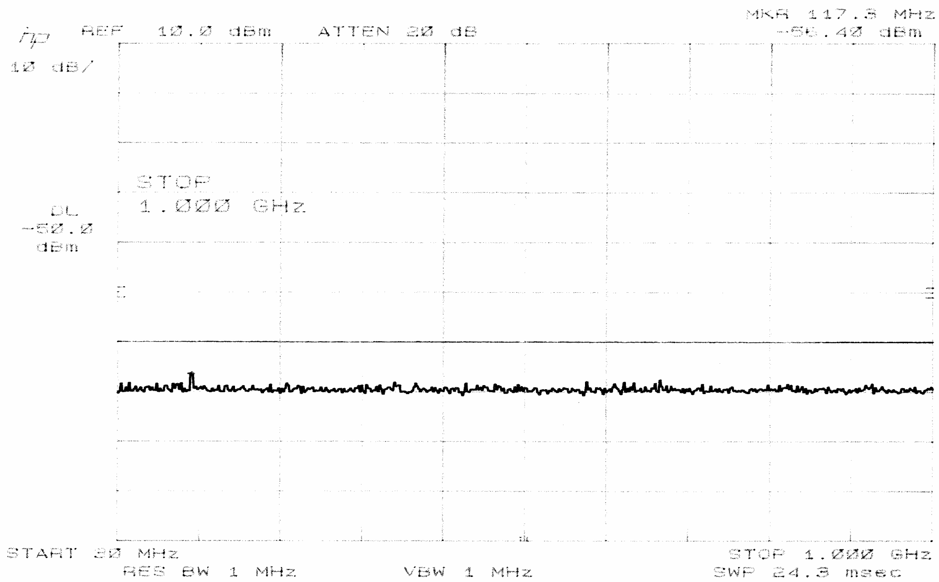

MKR 2.963 GHz
-56.90 dBm
REF 10.0 dBm
ATTEN 20 dB
10 dB/
DL
-50.0
dBm
START 2.00 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 5.00 GHz
SWP 75.0 msec


MKR 6.640 GHz
-59.10 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-50.0
dBm
START 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 10.00 GHz
SWP 125 msec

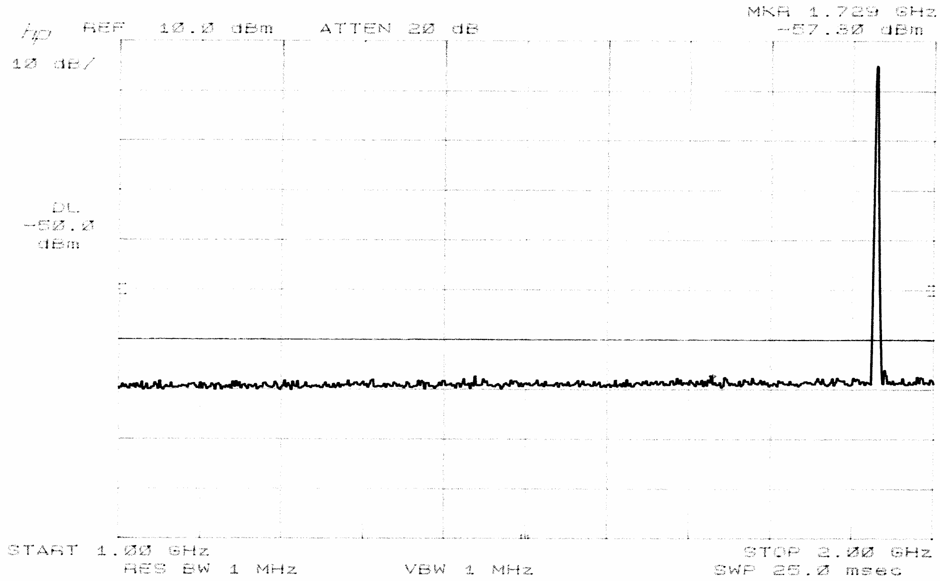
Note [11]

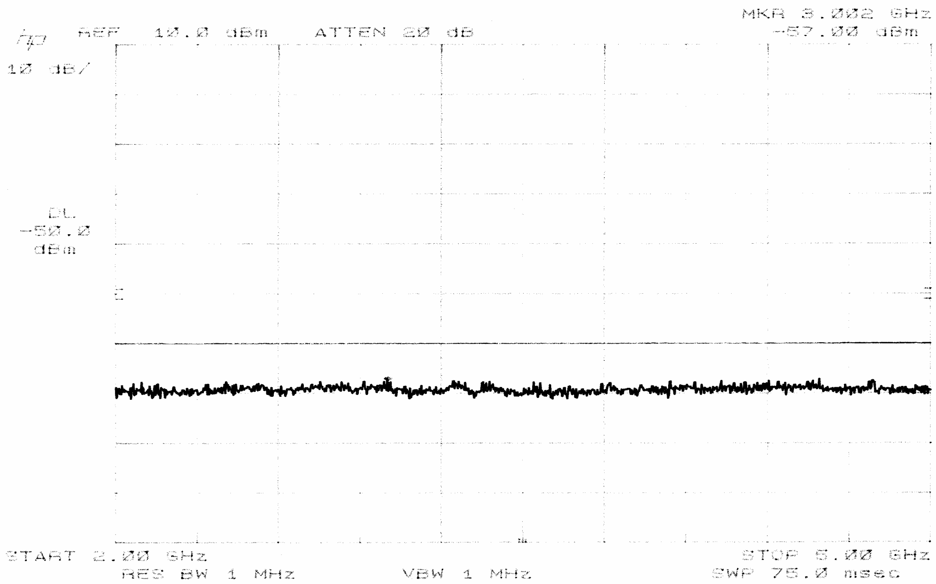


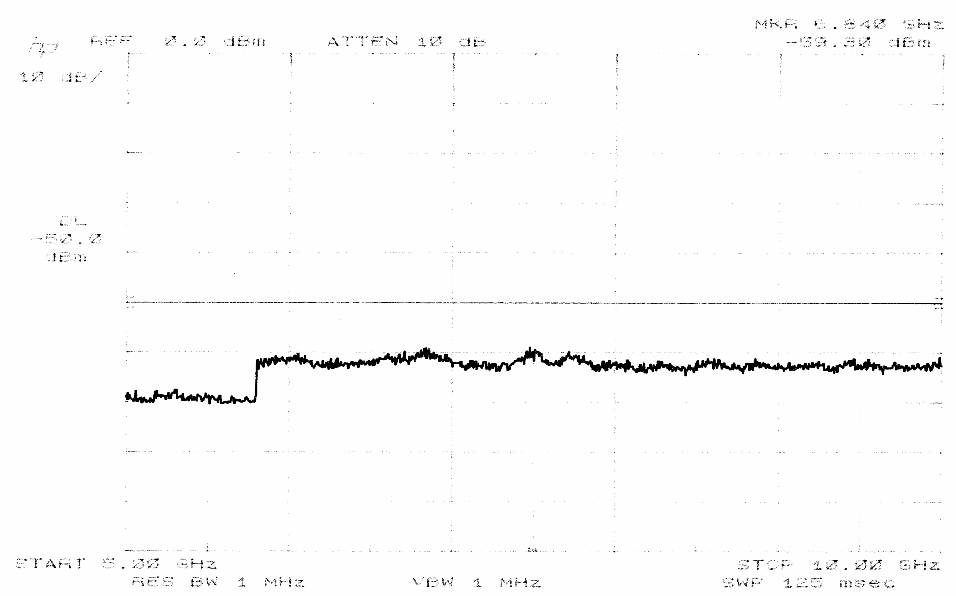
Channel 512



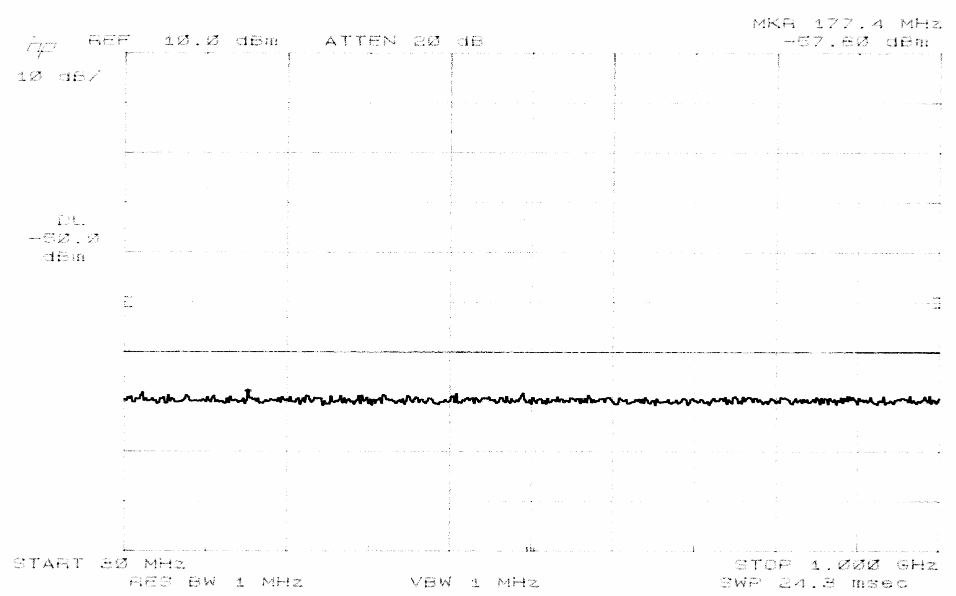
[11] This measurement applies also to channel 512, channel 810, channel 661-low power and channel 661-server connector 2.

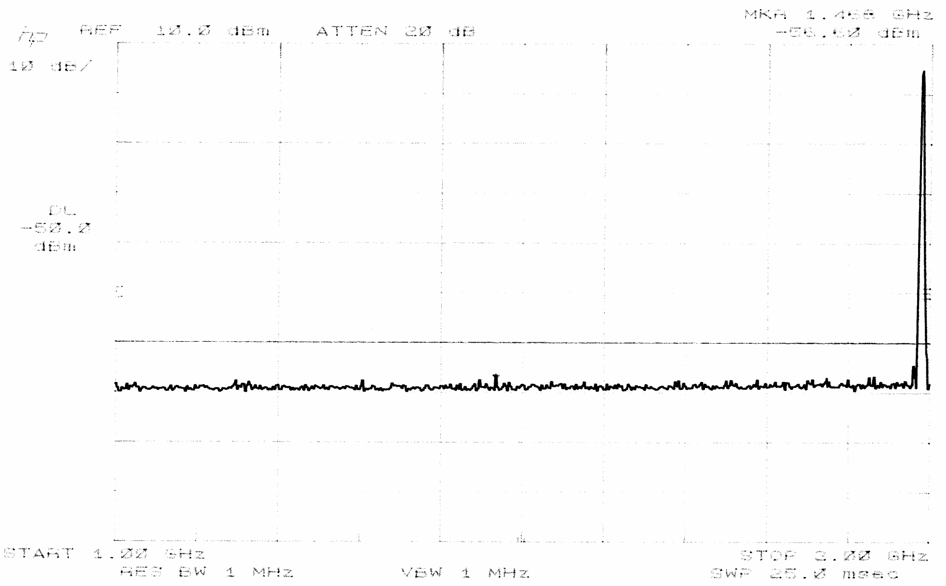

MKR 1.729 GHz
-57.30 dBm
REF 10.0 dBm ATTEN 20 dB
10 dB/
DL
-50.0
dBm
START 1.00 GHz
STOP 2.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 25.0 msec

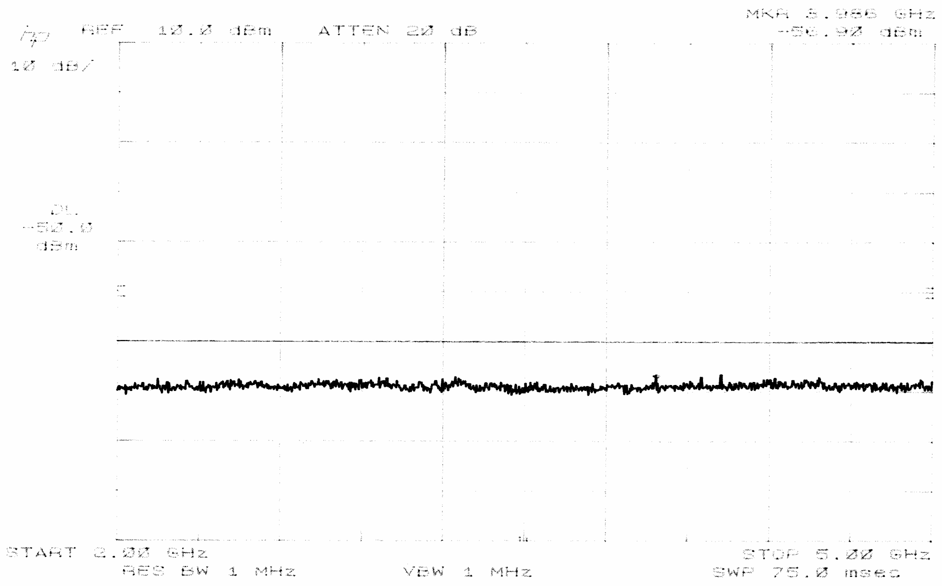

MKR 3.002 GHz
-57.00 dBm
REF 10.0 dBm ATTEN 20 dB
10 dB/
DL
-50.0
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec

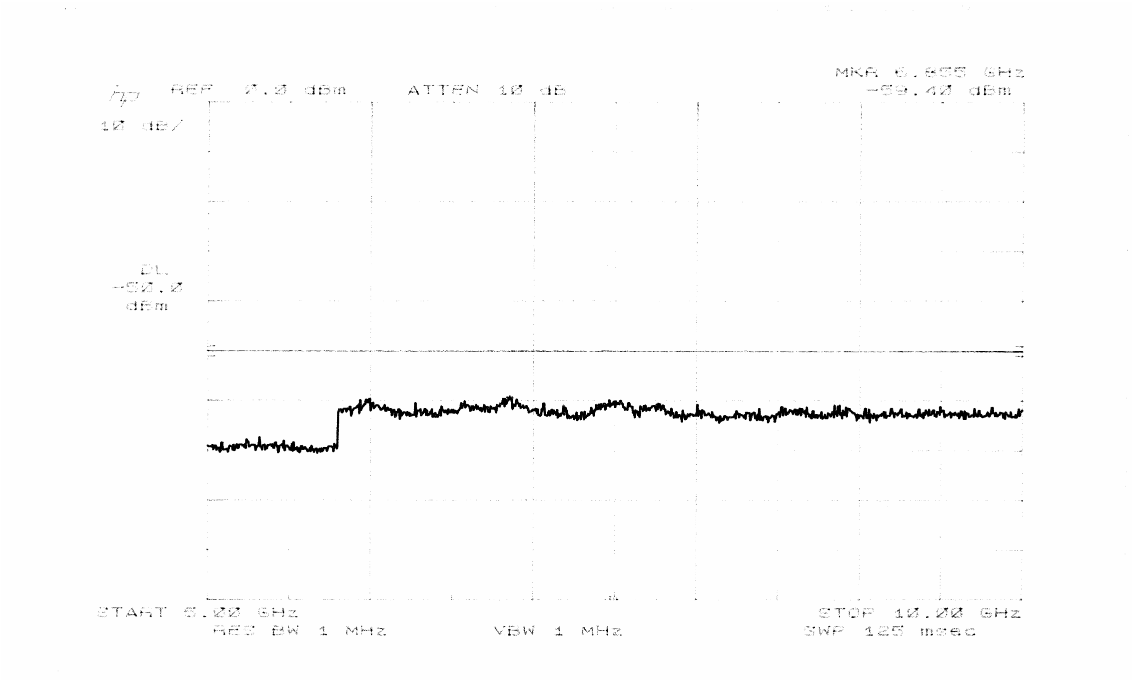

REF 0.0 dBm ATTEN 10 dB
MKR 6.840 GHz
-59.80 dBm
10 dB/
DL
-50.0
dBm
START 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 10.00 GHz
SWP 125 msec

Channel 810

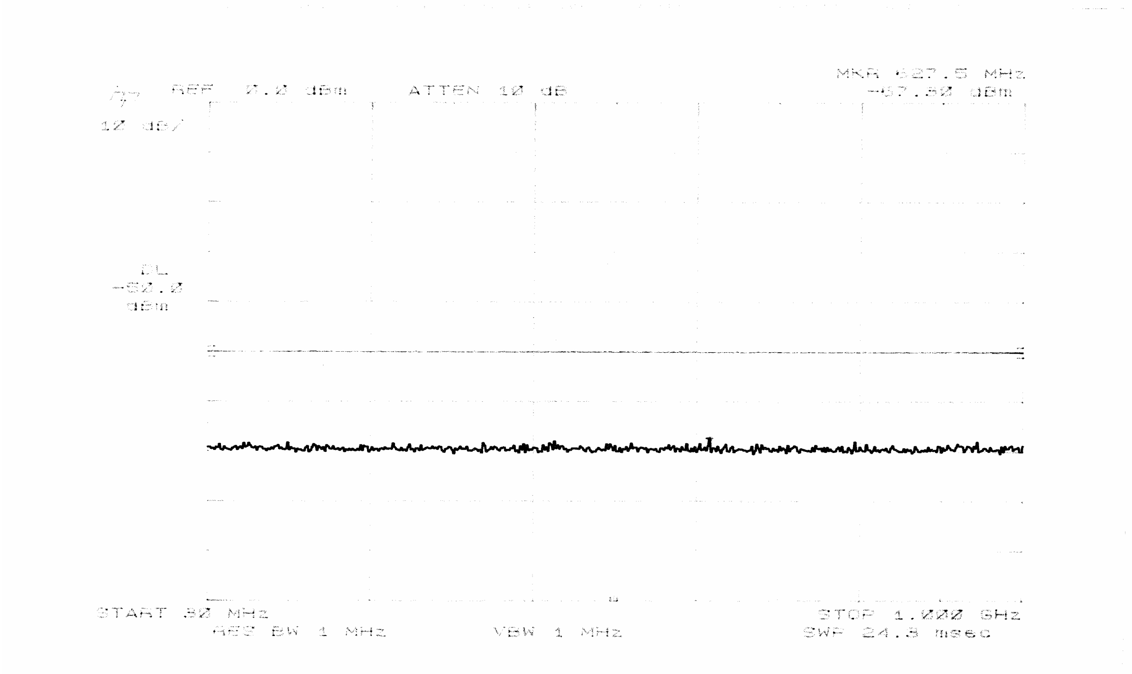

REF 10.0 dBm ATTEN 20 dB
MKR 177.4 MHz
-57.80 dBm
10 dB/
DL
-50.0
dBm
START 30 MHz
RES BW 1 MHz
VBW 1 MHz
STOP 1.000 GHz
SWP 24.3 msec

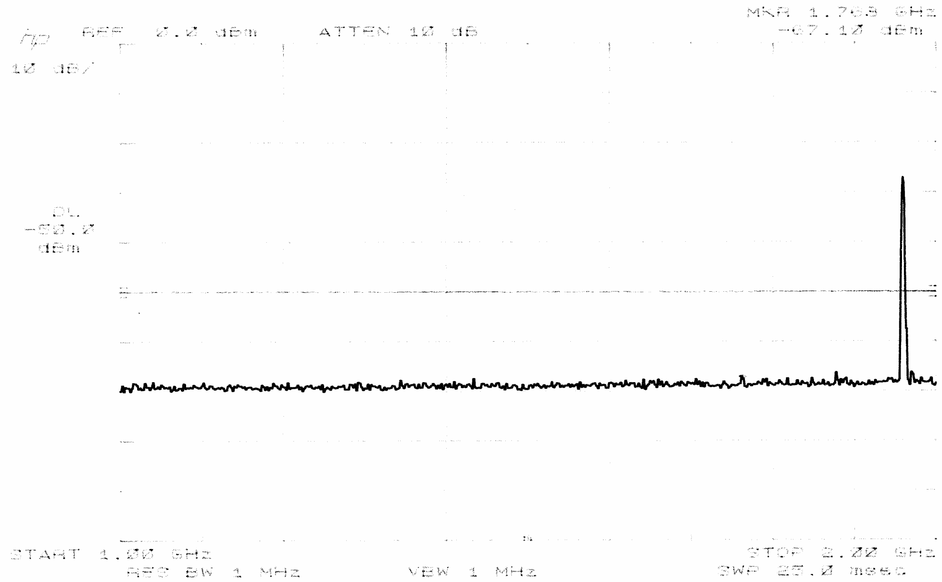

REF 10.0 dBm ATTEN 20 dB
10 dB/
DL
-50.0
dBm
STOP 3.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 25.0 msec

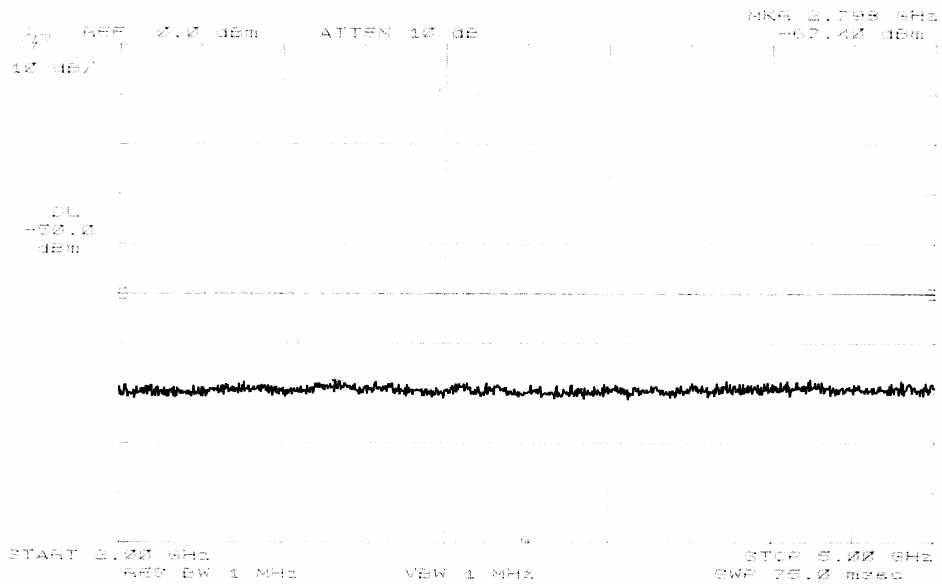

REF 10.0 dBm ATTEN 20 dB
10 dB/
DL
-50.0
dBm
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec

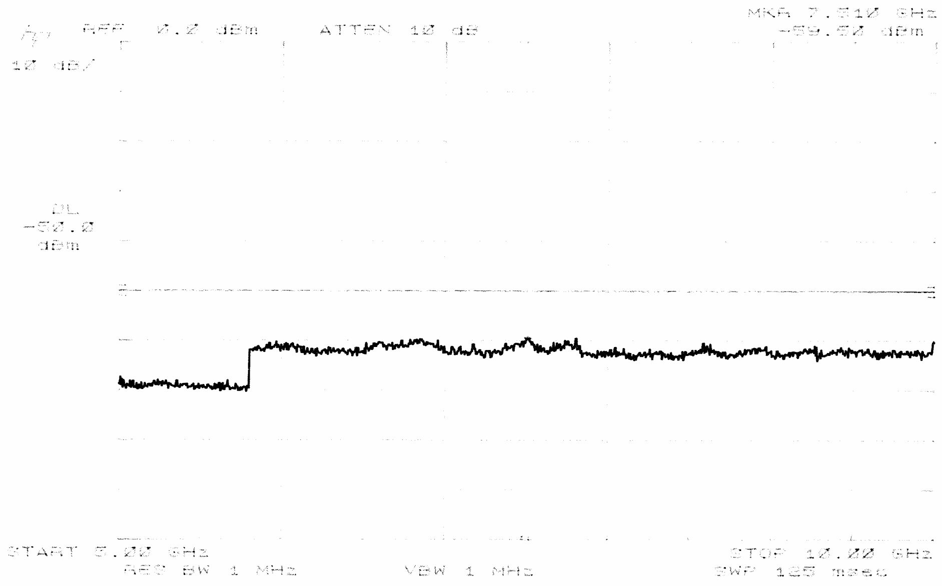


Channel 661, low power

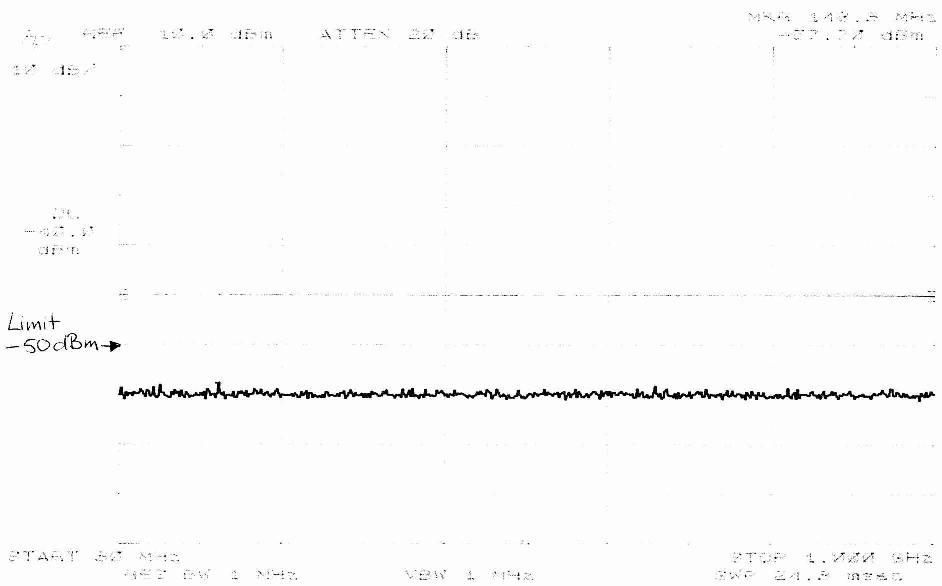



REF 0.0 dBm ATTEN 10 dB
MKR 1.768 GHz
-67.10 dBm
10 dB/
DL
-50.0
dBm
START 1.00 GHz
STOP 2.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 25.0 msec

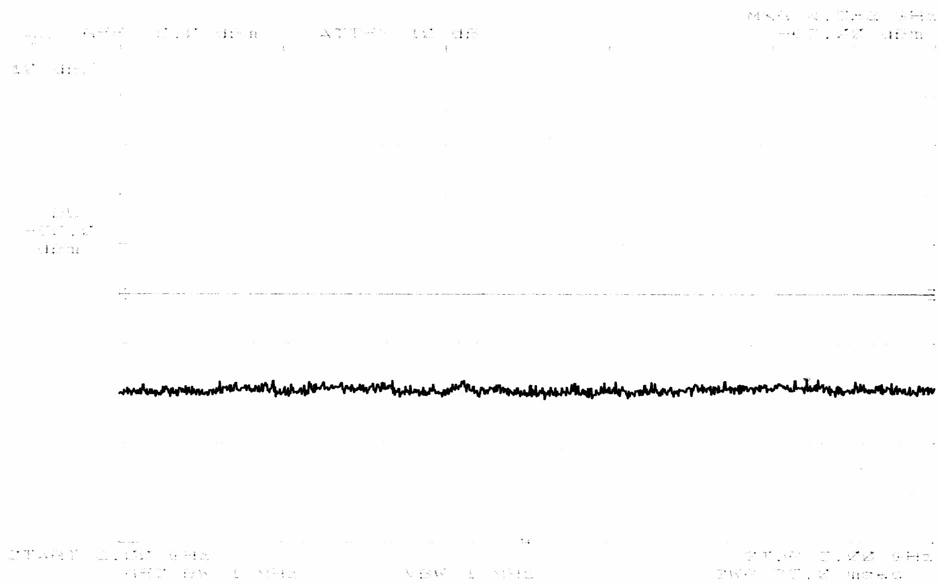

REF 0.0 dBm ATTEN 10 dB
MKR 2.798 GHz
-67.40 dBm
10 dB/
DL
-50.0
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec



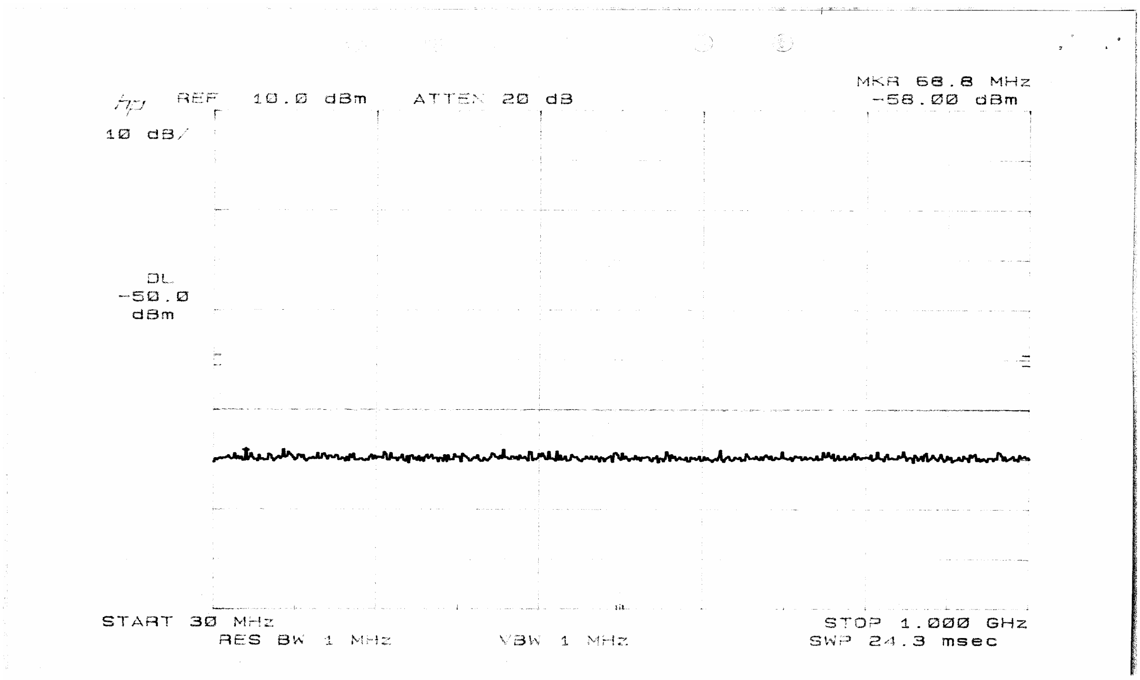
Channel 661, server 2

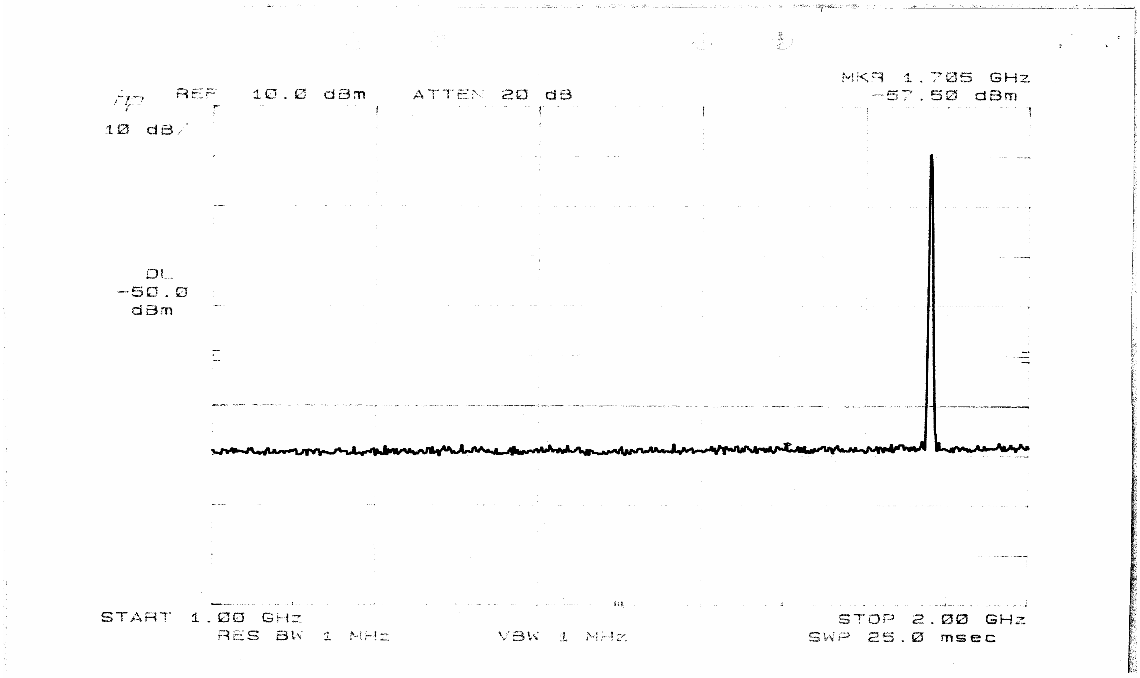


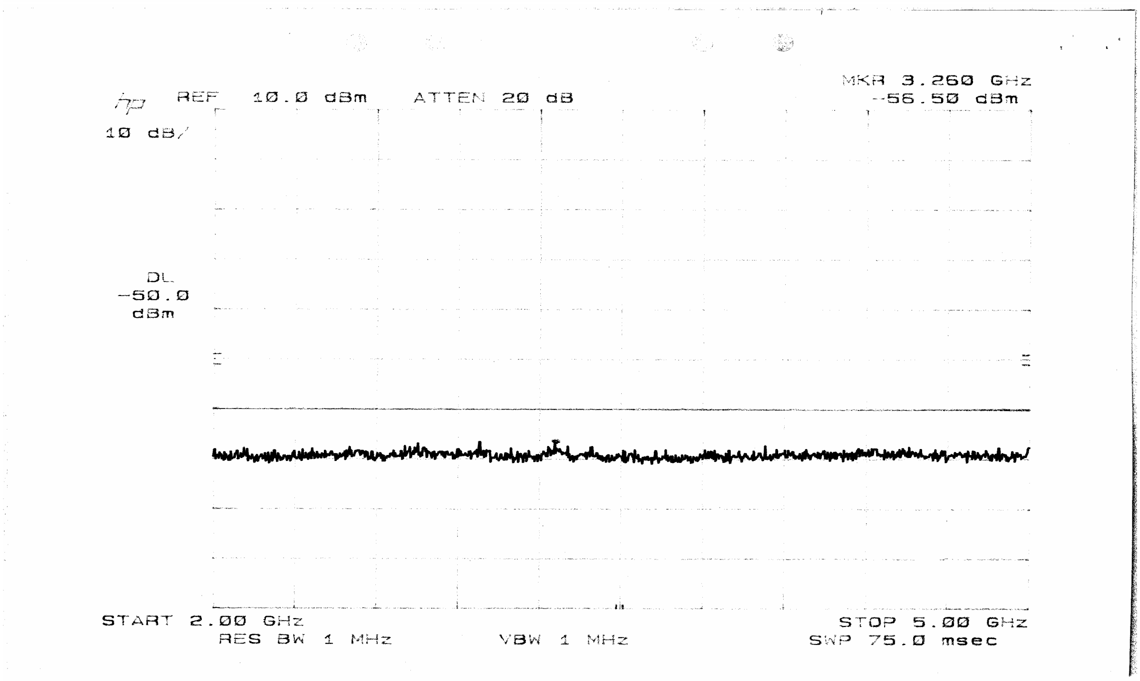

REF 10.0 dBm
ATTEN 20 dB
10 dB/
START 1.00 GHz
RES BW 1 MHz
VBW 1 MHz
STOP 2.00 GHz
SWP 25.0 msec

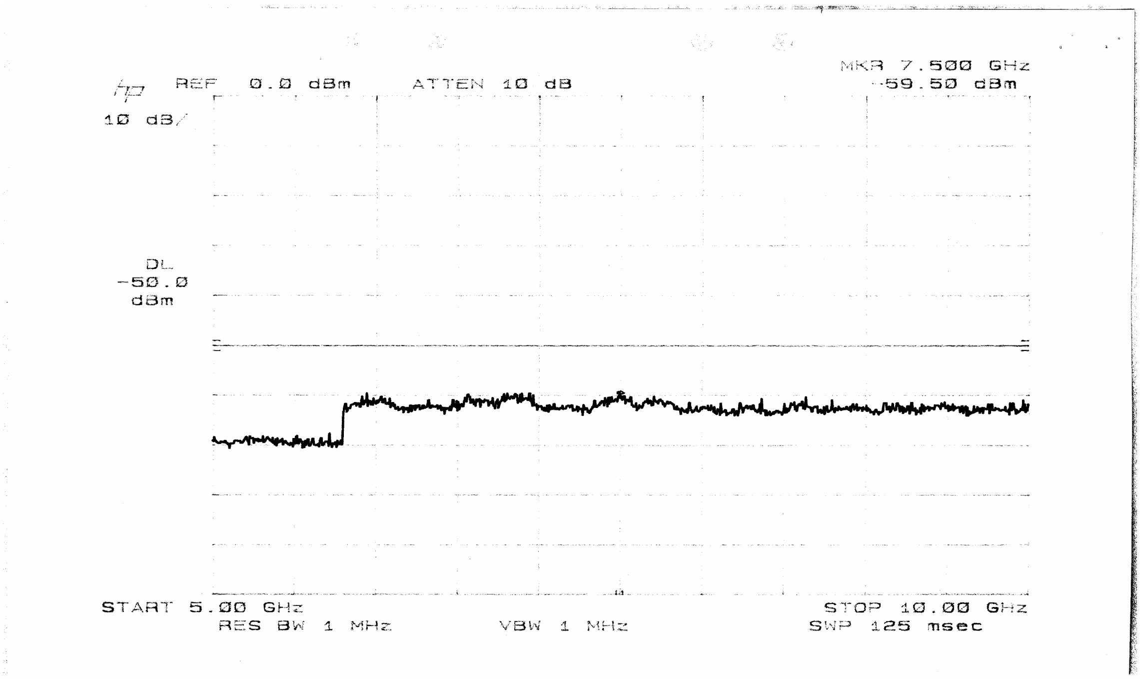


Uplink, channel 661

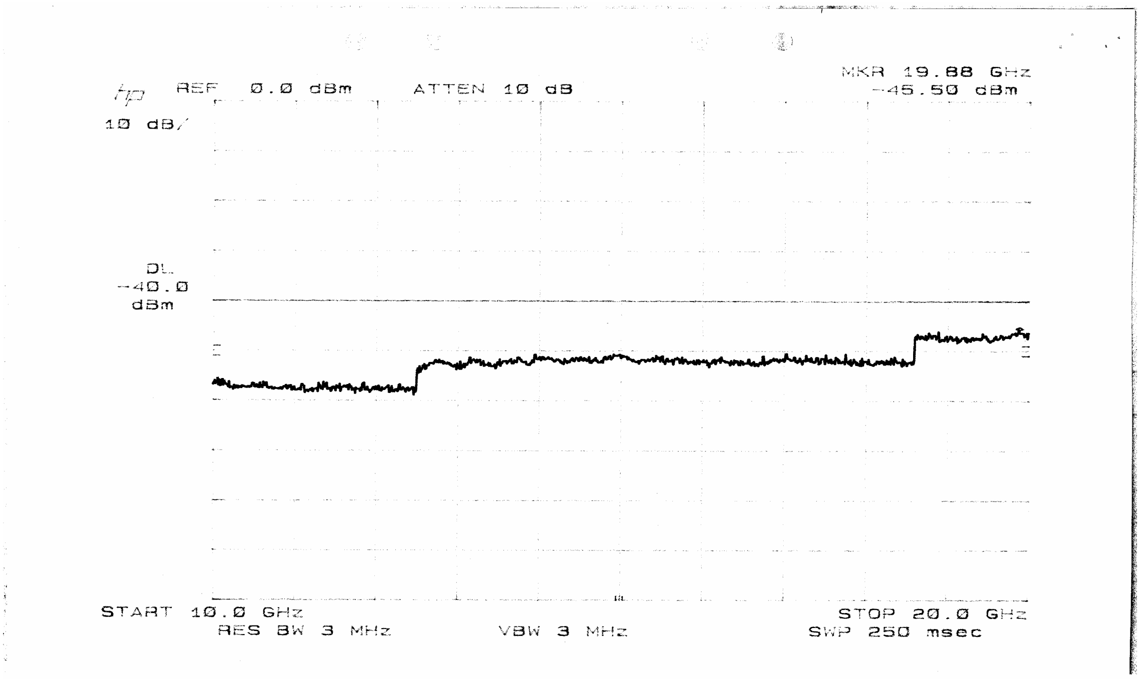



MKR 1.705 GHz
-57.50 dBm
REF 10.0 dBm ATTEN 20 dB
10 dB/
DL
-50.0
dBm
START 1.00 GHz
STOP 2.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 25.0 msec


MKR 3.260 GHz
-56.50 dBm
REF 10.0 dBm ATTEN 20 dB
10 dB/
DL
-50.0
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec

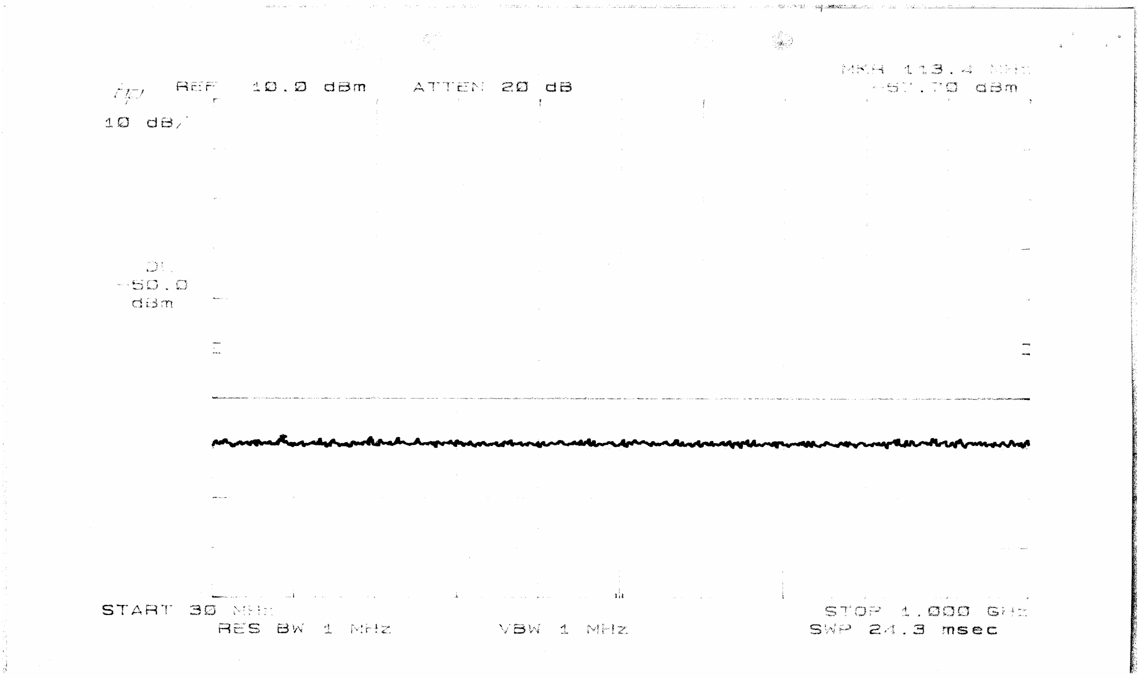


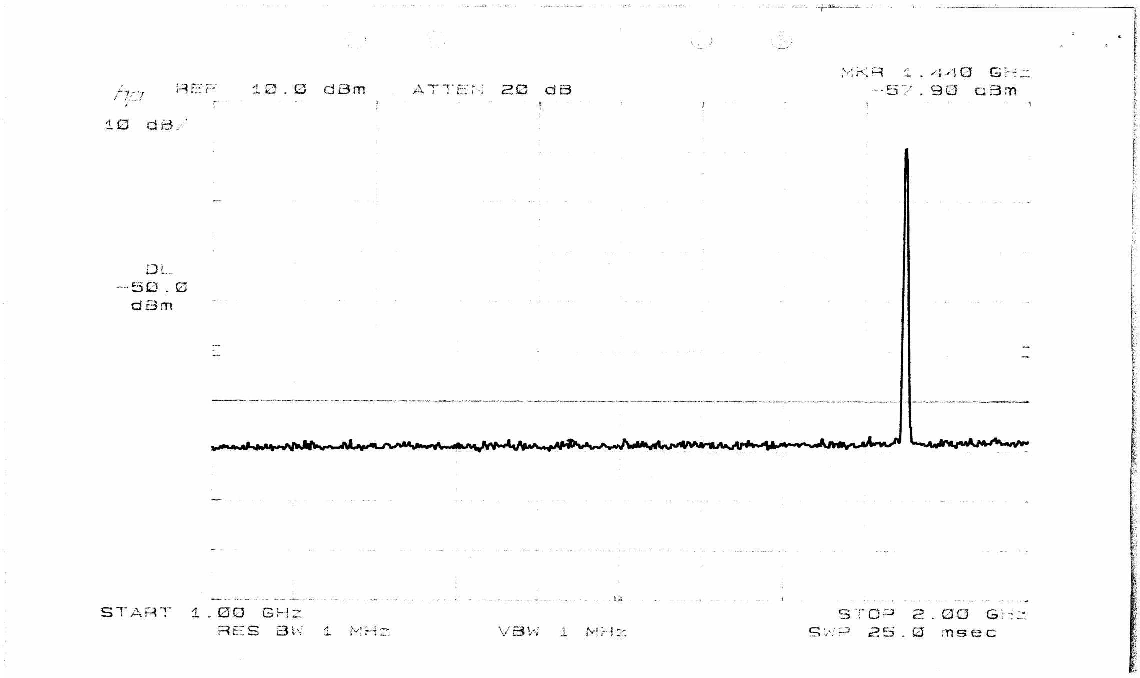
Note[12]

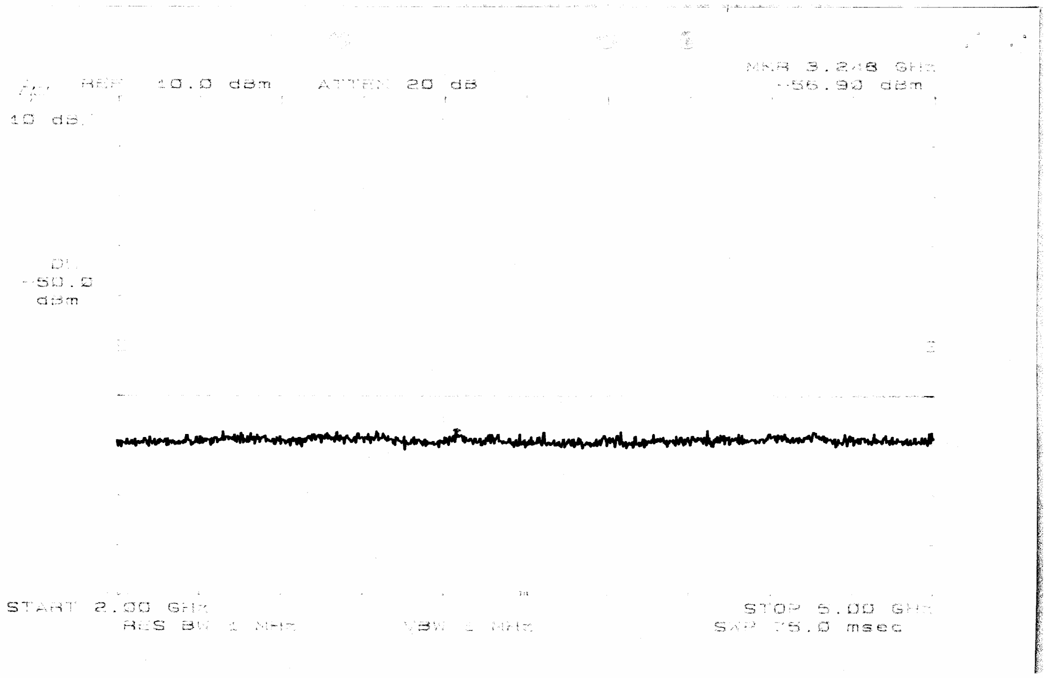


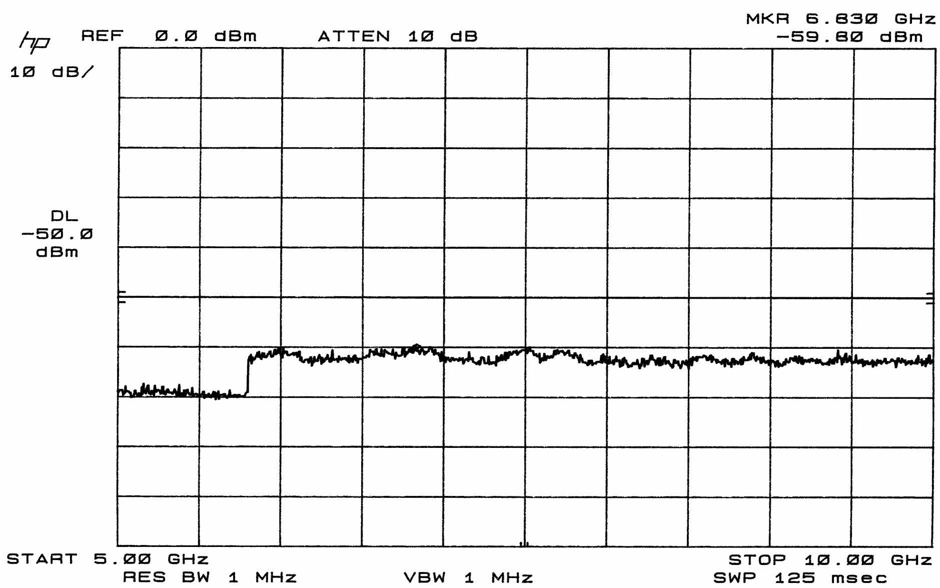
[12] This measurement applies also to channel 512, channel 810, channel 661-low power and channel 661-server connector 2.

Channel 512

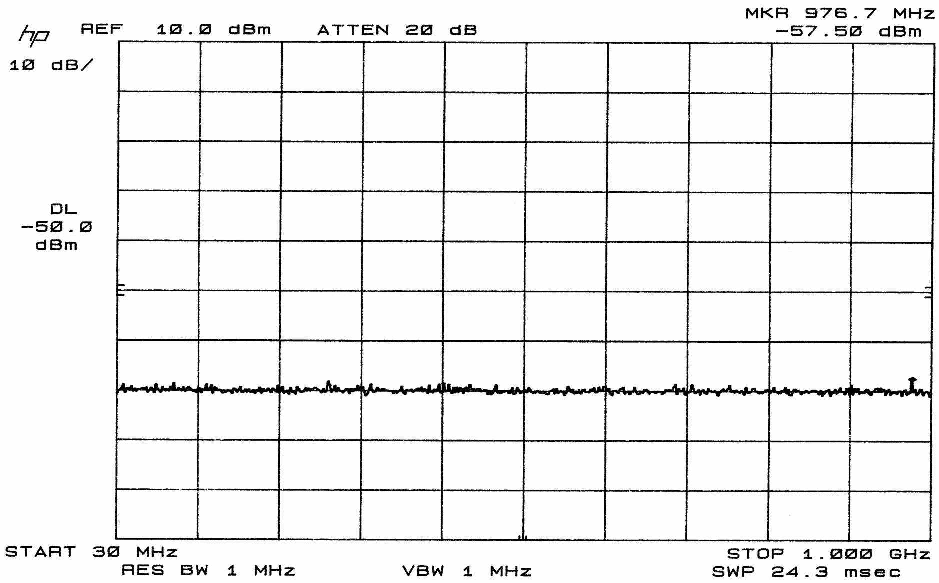

REF 10.0 dBm
ATTEN 20 dB
10 dB/
DL
-50.0
dBm
START 30 MHz
STOP 1.000 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 24.3 msec

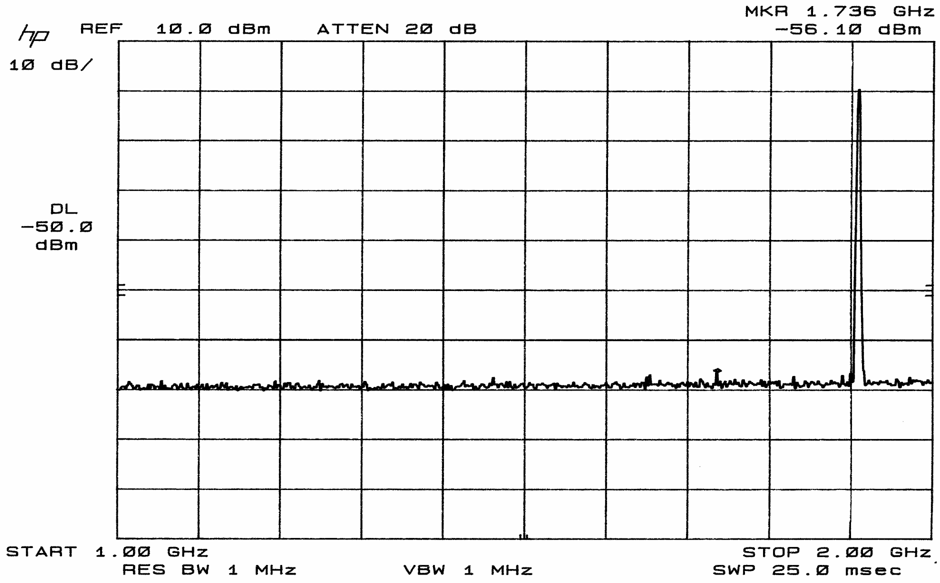

MKR 1.440 GHz
-57.90 dBm
REF 10.0 dBm
ATTEN 20 dB
10 dB/
DL
-50.0
dBm
START 1.00 GHz
STOP 2.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 25.0 msec

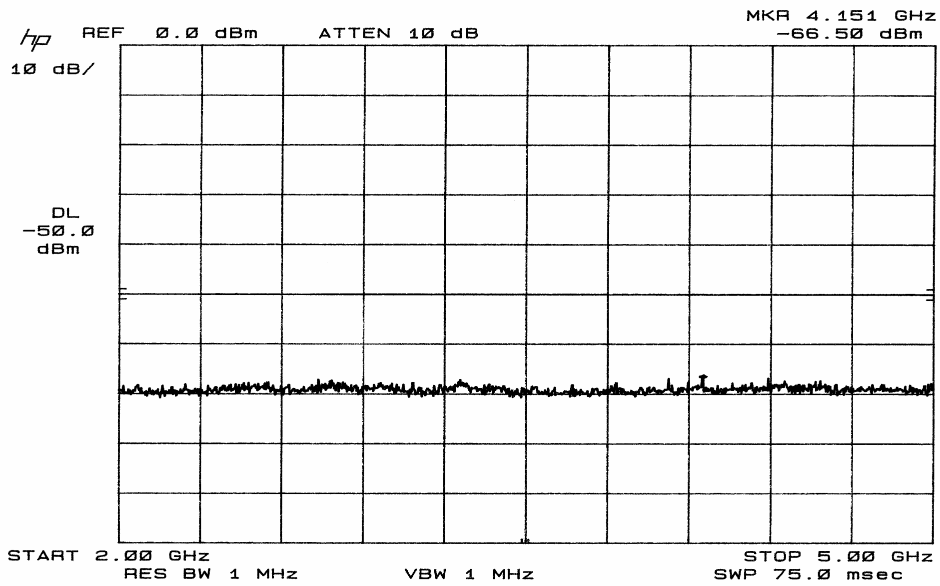

MKR 3.248 GHz
-56.90 dBm
REF 10.0 dBm
20 dB
10 dB
-50.0
dBm
START 2.00 GHz
STOP 5.00 GHz
SWP 75.0 msec

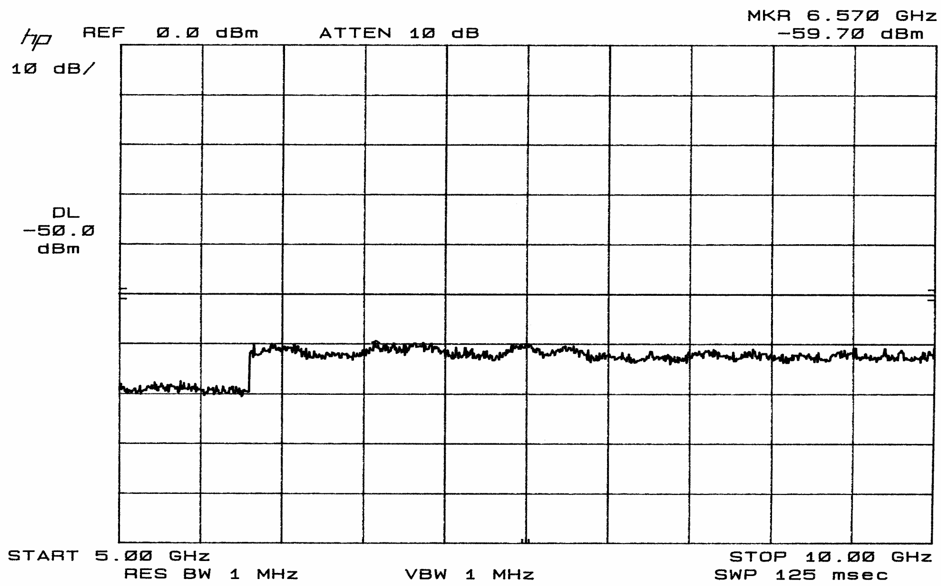

MKR 6.830 GHz
-59.80 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-50.0
dBm
START 5.00 GHz
STOP 10.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 125 msec

Channel 810

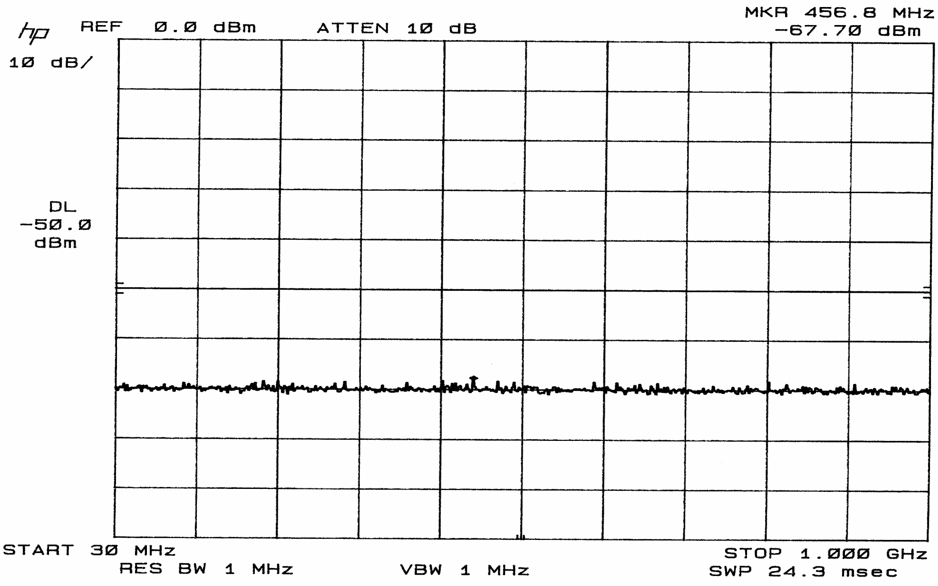

REF 10.0 dBm ATTEN 20 dB
MKR 976.7 MHz
-57.50 dBm
10 dB/
DL
-50.0
dBm
START 30 MHz
STOP 1.000 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 24.3 msec

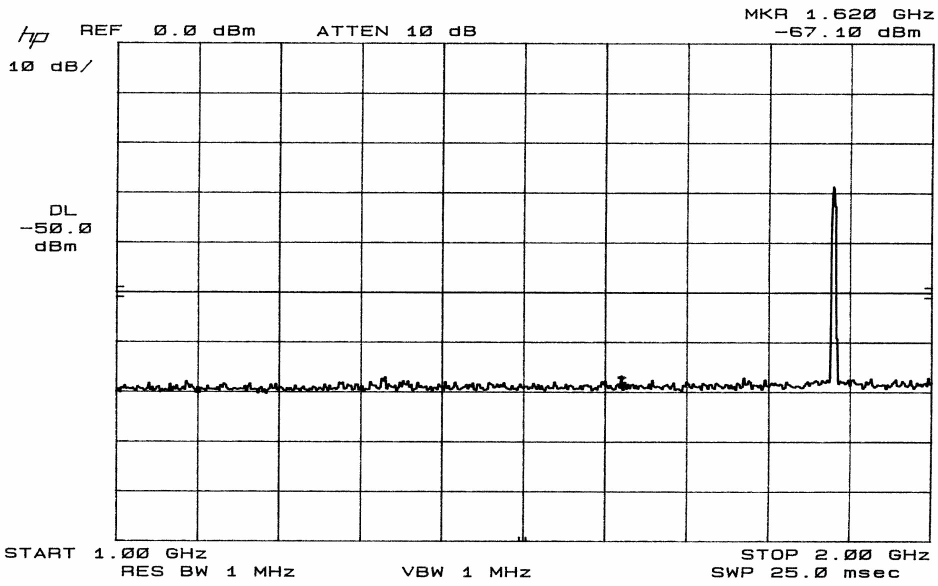

REF 10.0 dBm ATTEN 20 dB
MKR 1.736 GHz
-56.10 dBm
10 dB/
DL
-50.0
dBm
START 1.00 GHz
STOP 2.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 25.0 msec

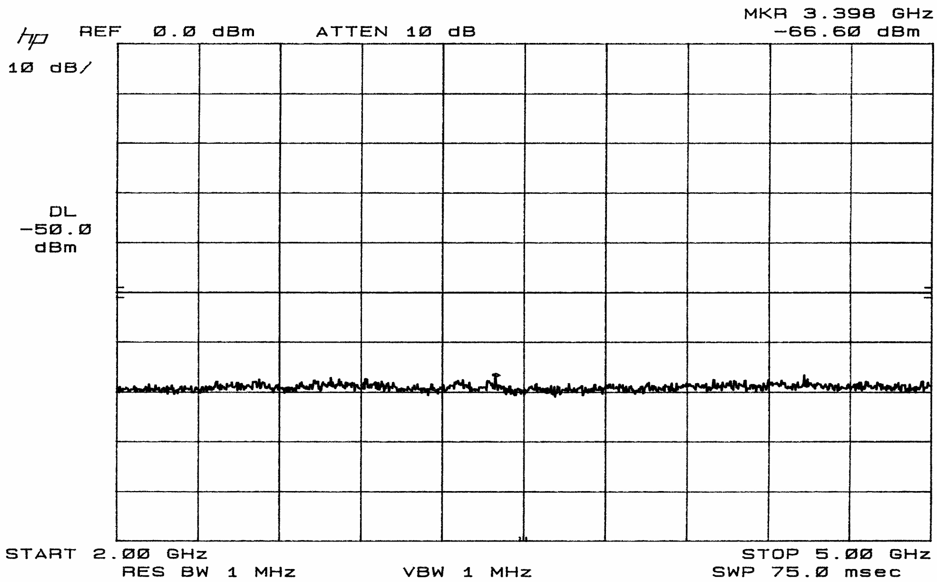

MKR 4.151 GHz
-66.50 dBm
REF 0.0 dBm ATTEN 10 dB
10 dB/
DL
-50.0
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec

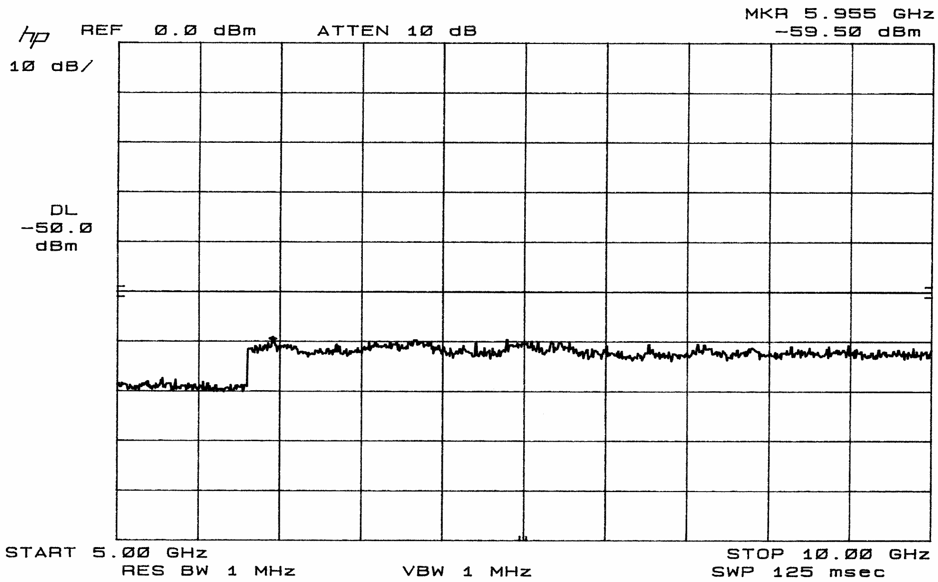

MKR 6.570 GHz
-59.70 dBm
REF 0.0 dBm ATTEN 10 dB
10 dB/
DL
-50.0
dBm
START 5.00 GHz
STOP 10.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 125 msec

Channel 661, low power

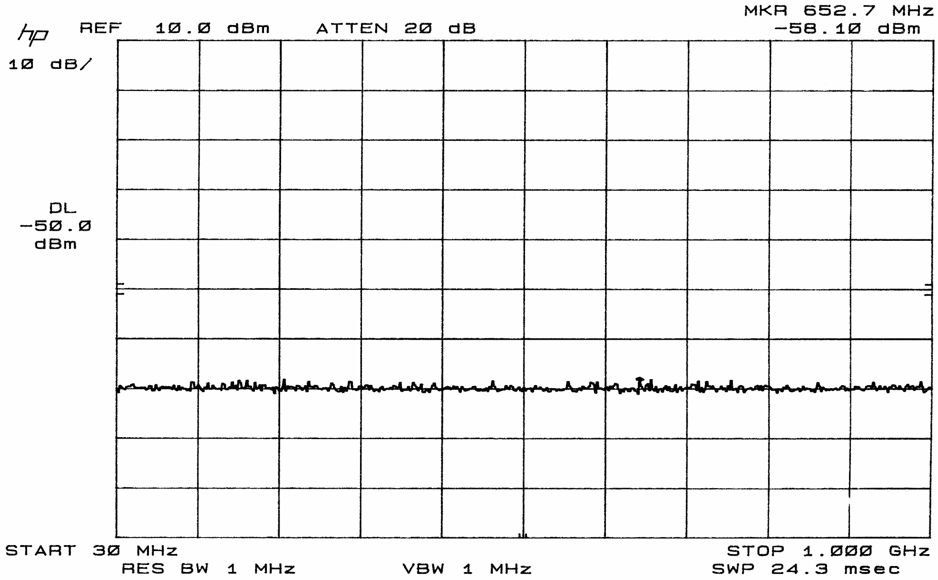


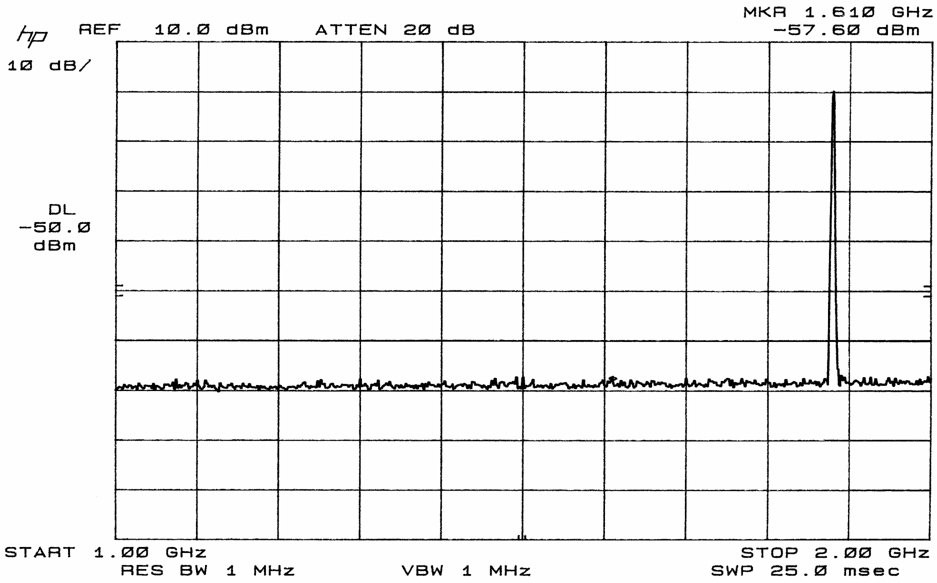


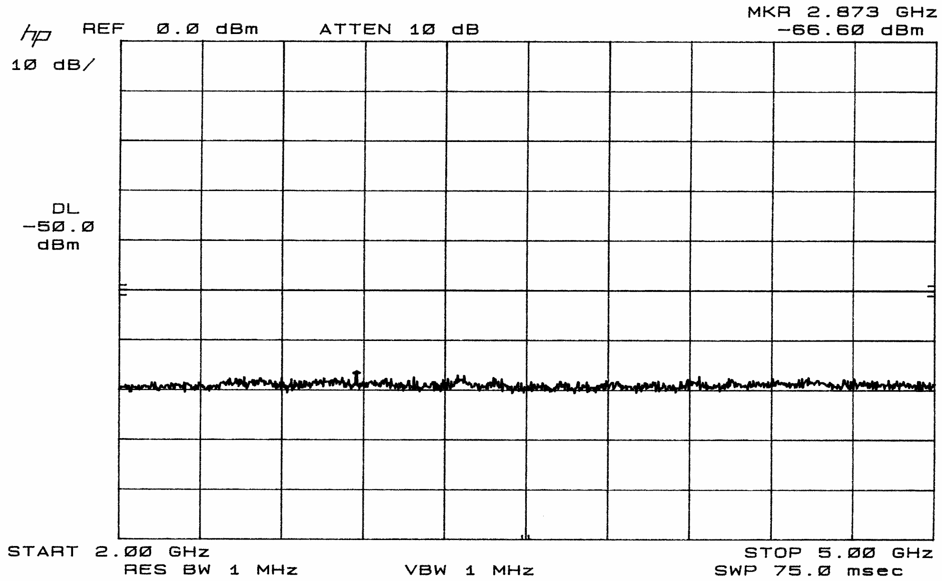

MKR 3.398 GHz
-66.60 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-50.0
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec

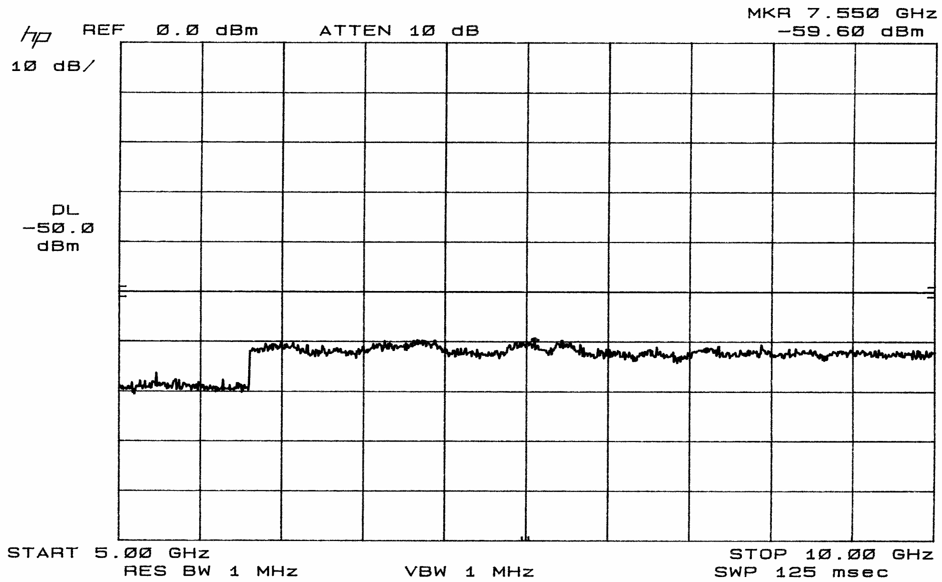

MKR 5.955 GHz
-59.50 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-50.0
dBm
START 5.00 GHz
STOP 10.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 125 msec

Channel 661, server 2






MKR 2.873 GHz
-66.60 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-50.0
dBm
START 2.00 GHz
STOP 5.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 75.0 msec


MKR 7.550 GHz
-59.60 dBm
REF 0.0 dBm
ATTEN 10 dB
10 dB/
DL
-50.0
dBm
START 5.00 GHz
STOP 10.00 GHz
RES BW 1 MHz
VBW 1 MHz
SWP 125 msec

12. BAND EDGE COMPLIANCE

12.1 Test protocol

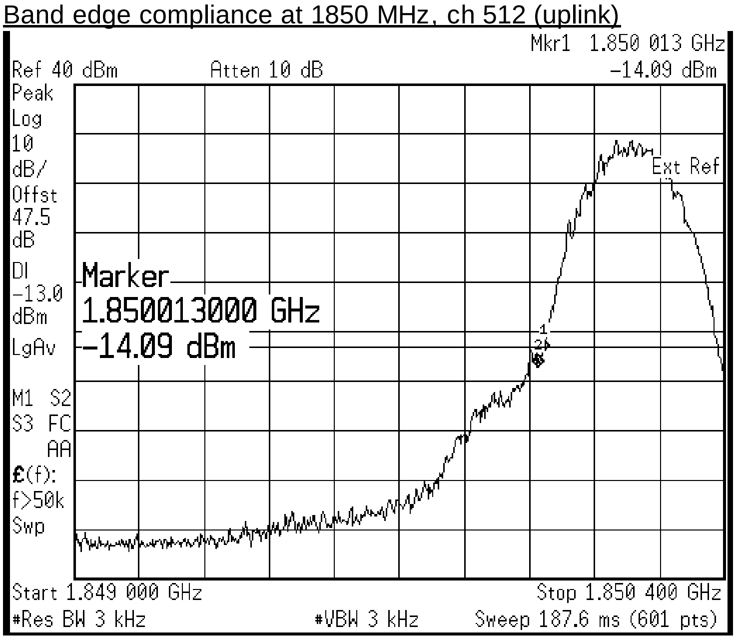
Date of test: 2004-06-10, 2004-06-14, 2004-06-21

EUT mode of operation: Maximum gain, EDGE-modulation

Parameter settings[13]	Compliance at 1850 / 1930 MHz	Compliance at 1910 / 1990 MHz
Start frequency (MHz):	1849 / 1939	1909,6 / 1989,6
Stop frequency (MHz):	1850,4 / 1930,4	1911 / 1991
RBW (kHz):	3	3
VBW (kHz):	3	3
Sweep time (ms):	Auto	Auto
Detector:	Peak	Peak
Trace:	Max Hold	Max Hold

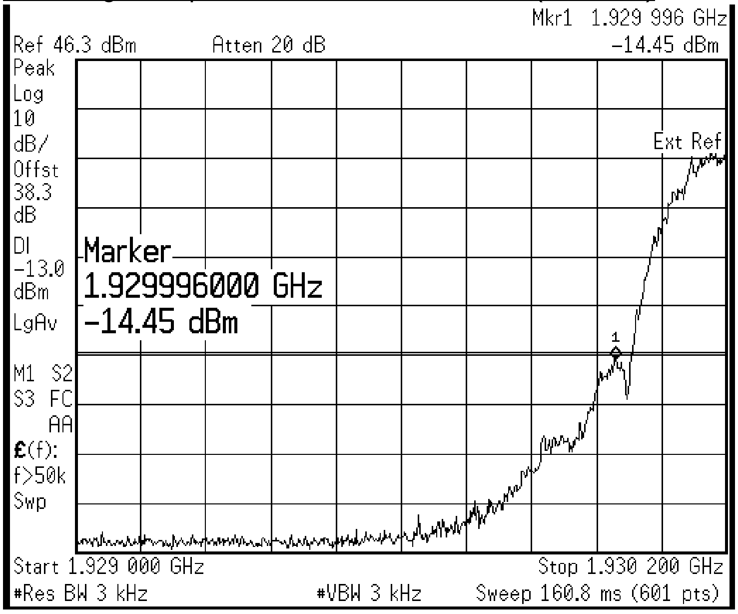
In the 1 MHz band immediately outside and adjacent to the frequency block a bandwidth <1% of the emission bandwidth (26 dB bandwidth), which is 3 kHz, see section 6.

CSFT 1922-ER
Band edge compliance at 1850 MHz, ch 512 (uplink)

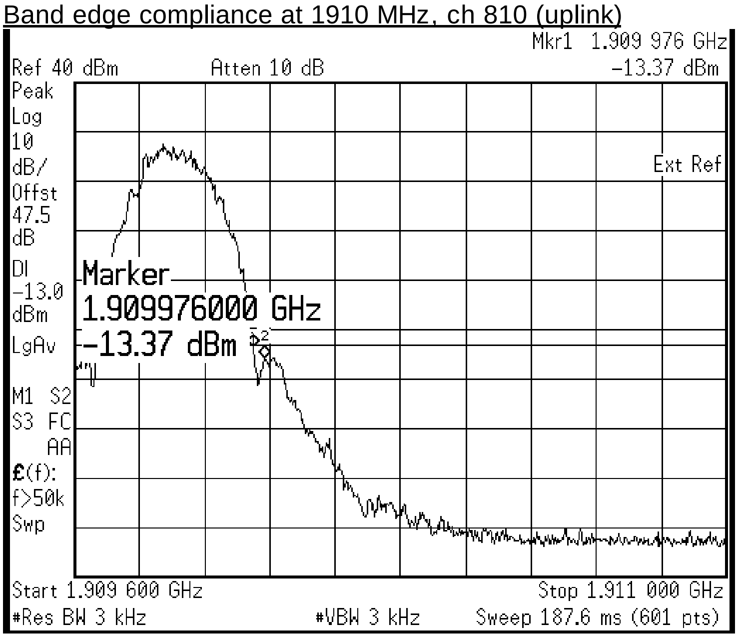


13 See the graphs for correct parameter settings for each measurement.

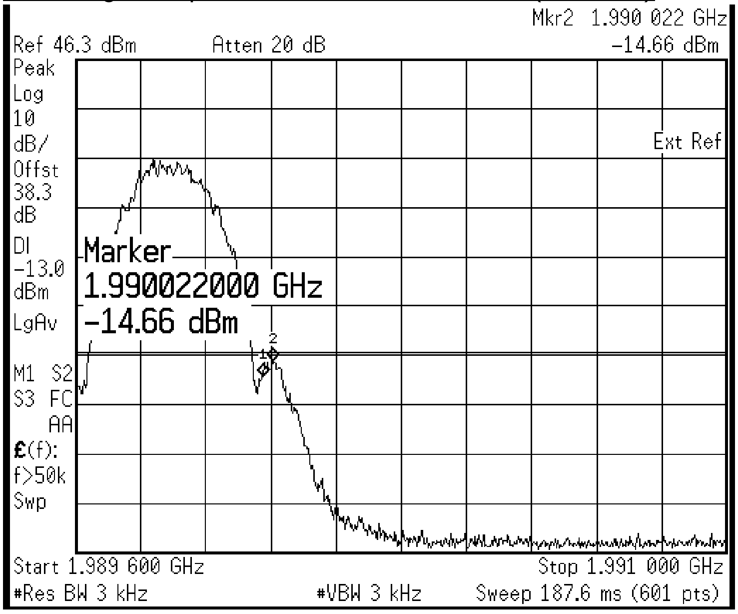
Band edge compliance at 1930 MHz, ch 512 (downlink)



Band edge compliance at 1910 MHz, ch 810 (uplink)

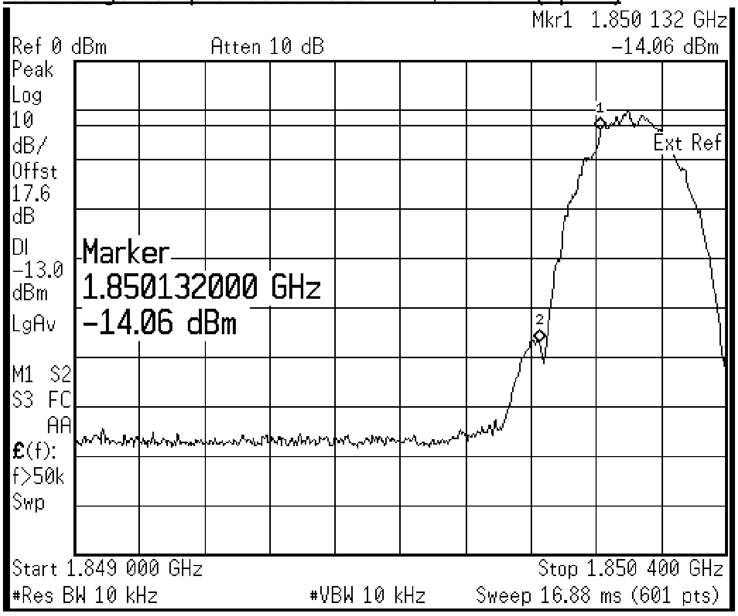


Band edge compliance at 1990 MHz, ch 810 (downlink)

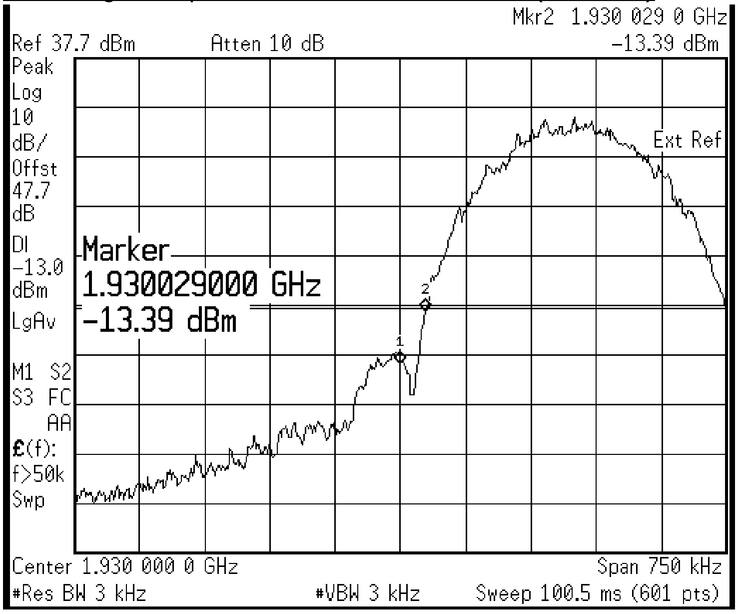


CSFT 1922-DD

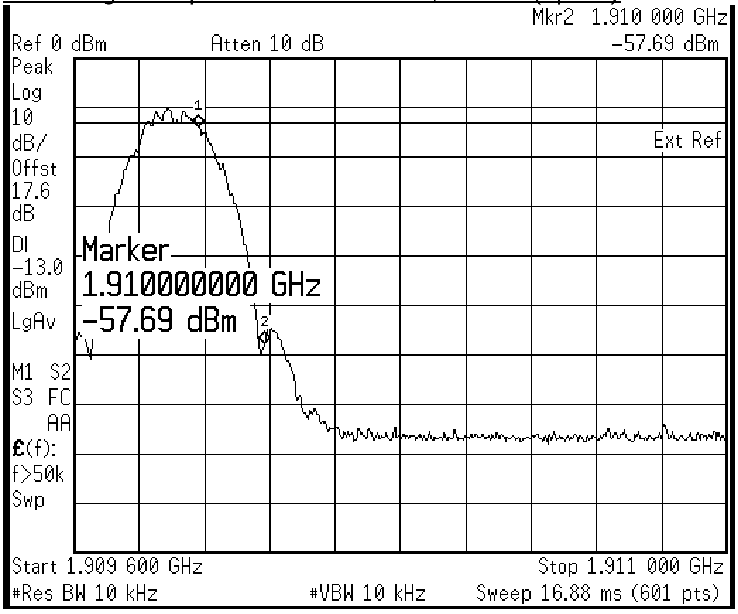
Band edge compliance at 1850 MHz, ch 512 (uplink)



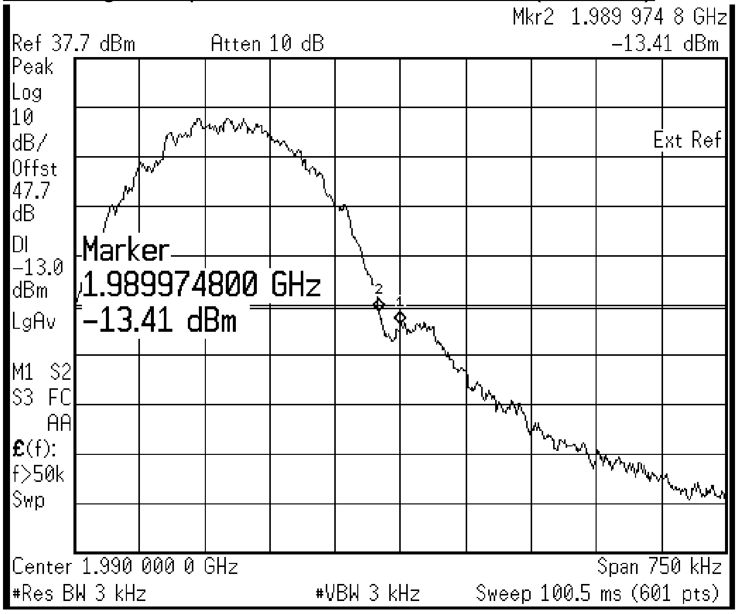
Band edge compliance at 1930 MHz, ch 512 (downlink)



Band edge compliance at 1910 MHz, ch 810 (uplink)



Band edge compliance at 1990 MHz, ch 810 (downlink)



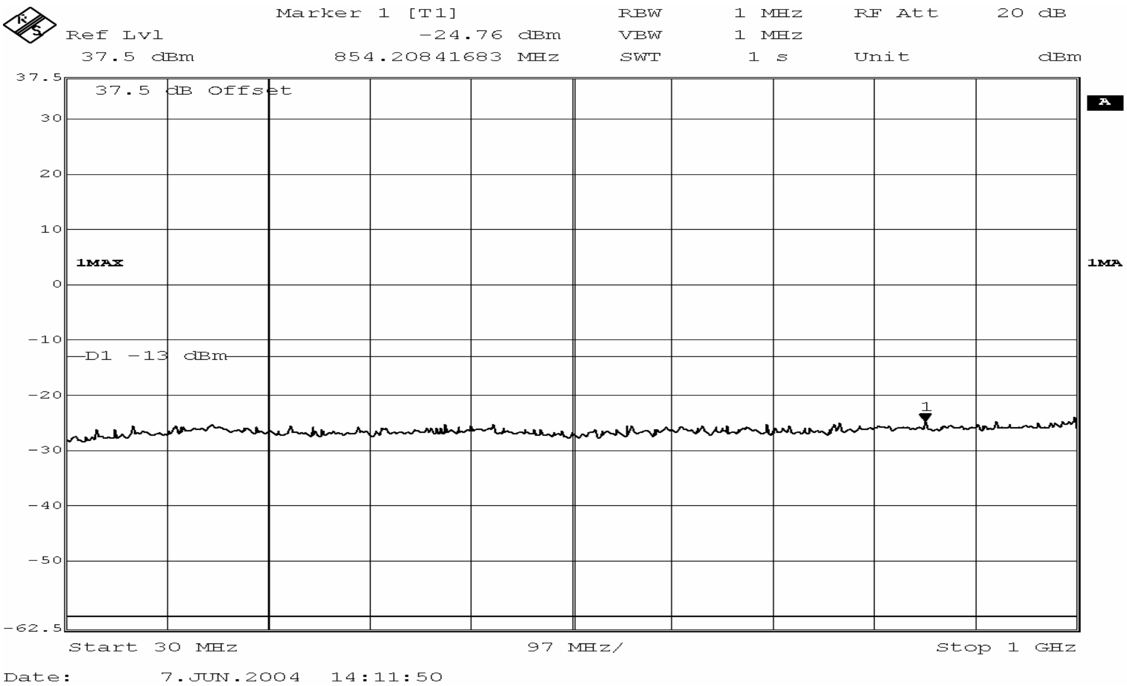
13. INTERMODULATION ATTENUATION

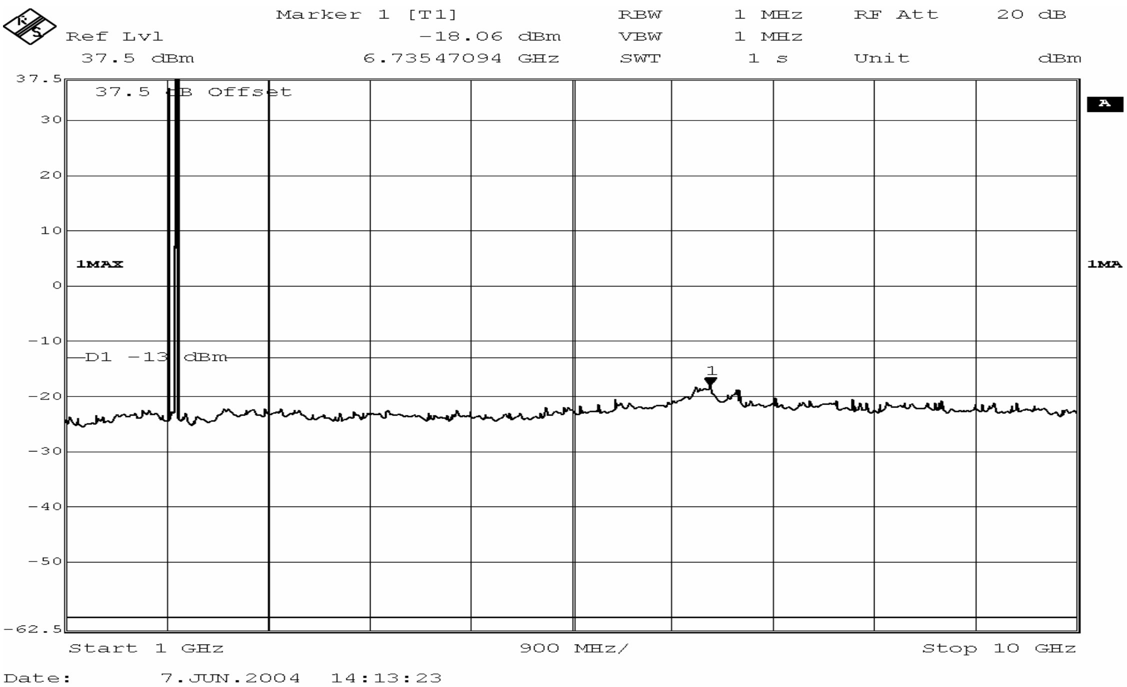
13.1 Test protocol

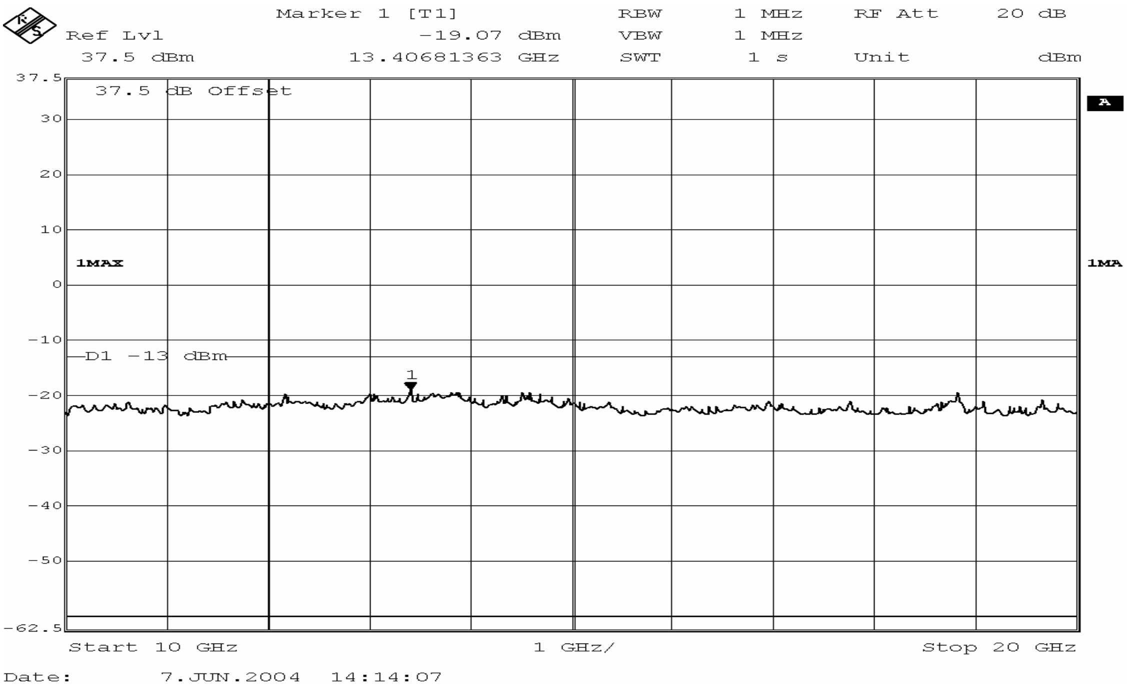
Date of test: June 7, 2004

EUT mode of operation: 3 tone carrier modulated with a CW signal.

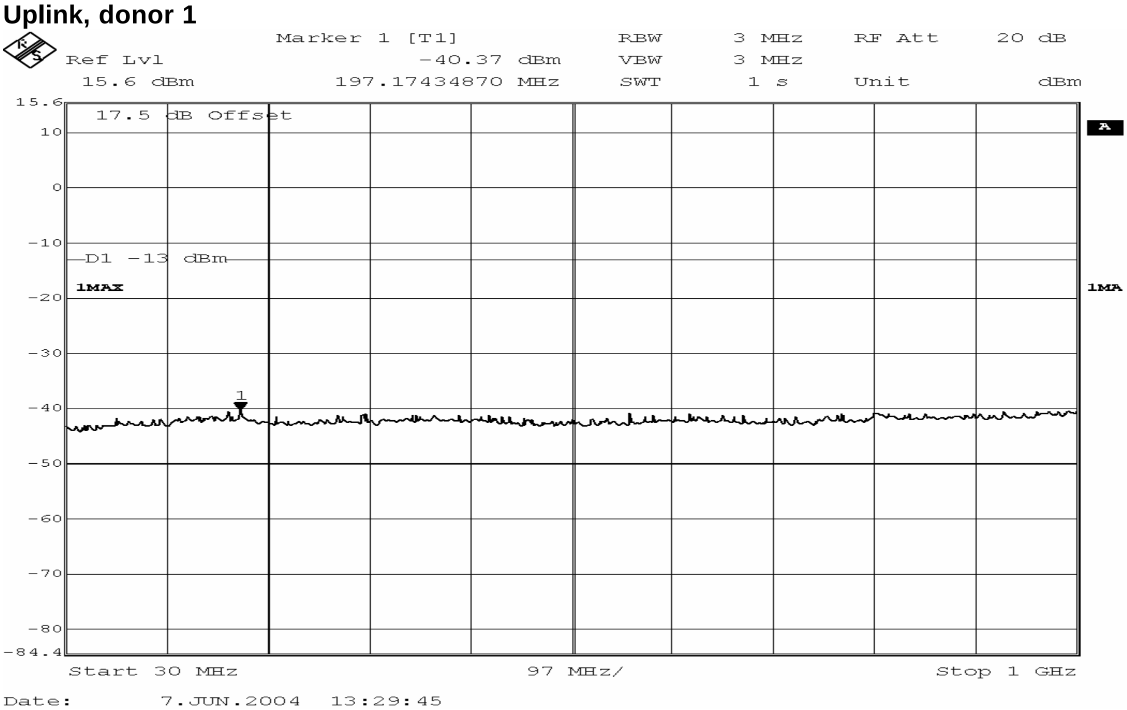
CSFT 1922-DD, Downlink

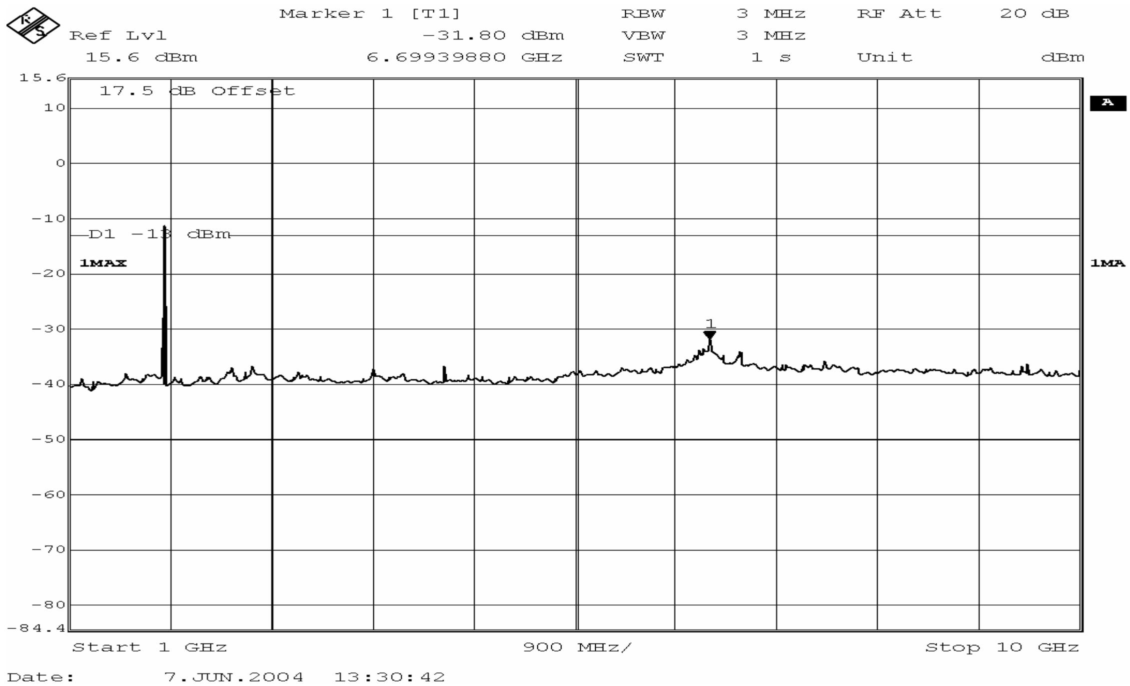


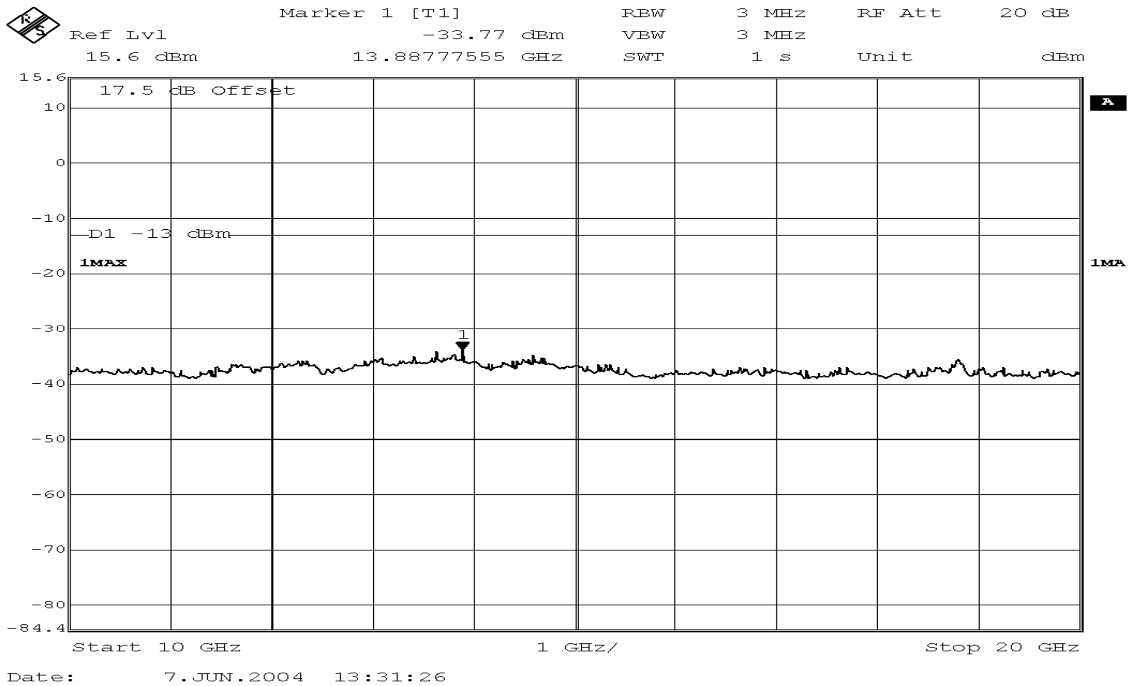




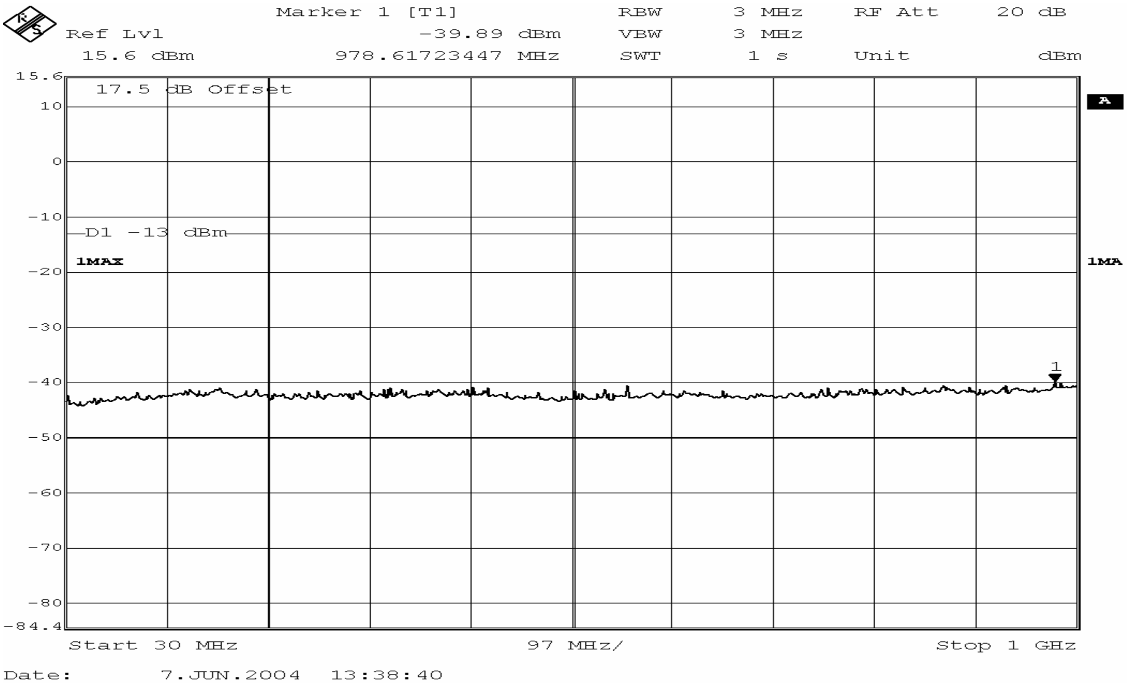
Uplink, donor 1

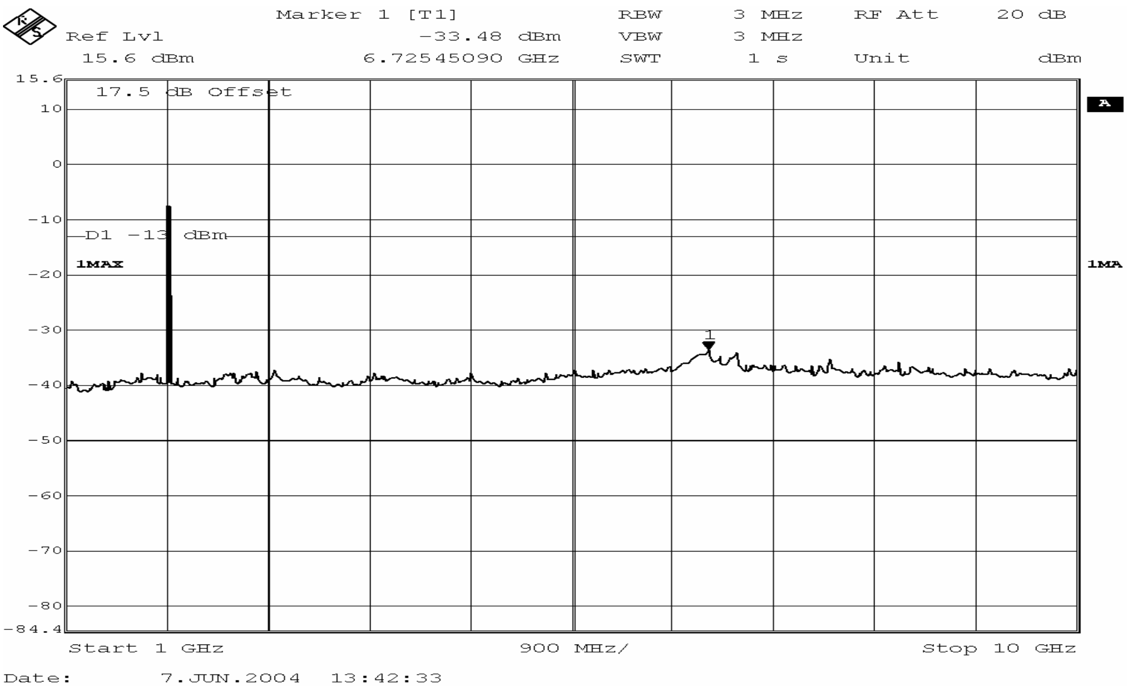


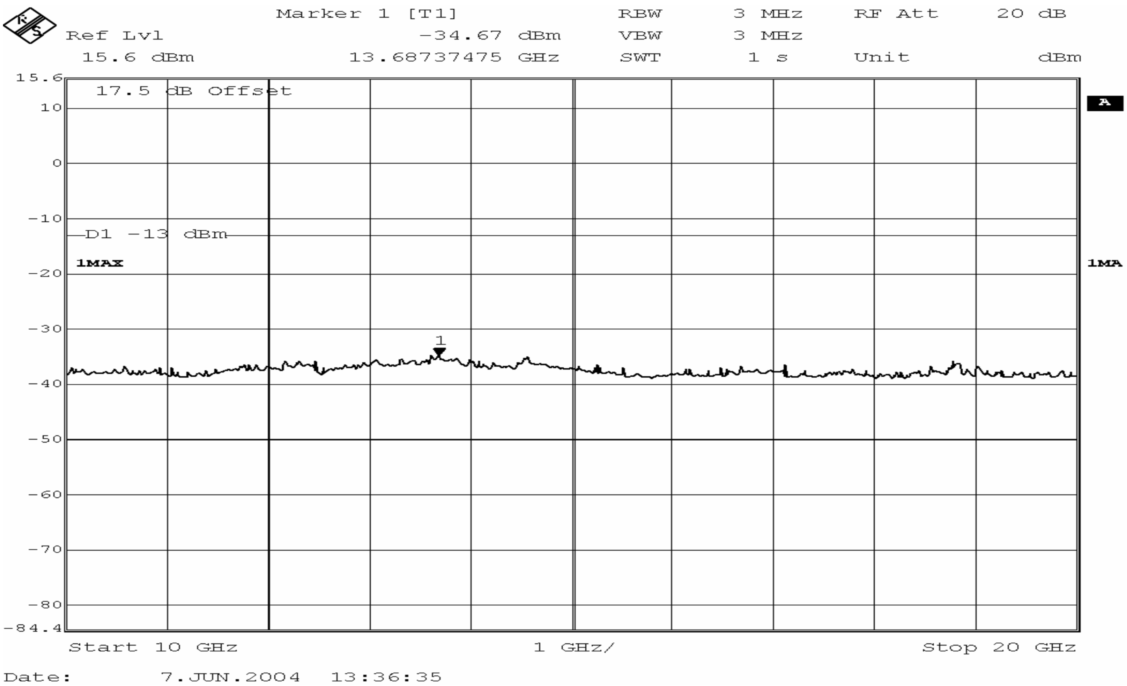

Marker 1 [T1]
RBW 3 MHz
RF Att 20 dB
Ref Lvl
-31.80 dBm
VBW 3 MHz
15.6 dBm
6.69939880 GHz
SWT 1 s
Unit dBm
17.5 dB Offset
D1 -13 dBm
1MAX
1MA
Start 1 GHz
900 MHz/
Stop 10 GHz
Date: 7.JUN.2004 13:30:42


Marker 1 [T1]
RBW 3 MHz
RF Att 20 dB
Ref Lvl
-33.77 dBm
VBW 3 MHz
15.6 dBm
13.88777555 GHz
SWT 1 s
Unit dBm
17.5 dB Offset
D1 -13 dBm
1MAX
1MA
Start 10 GHz
1 GHz/
Stop 20 GHz
Date: 7.JUN.2004 13:31:26

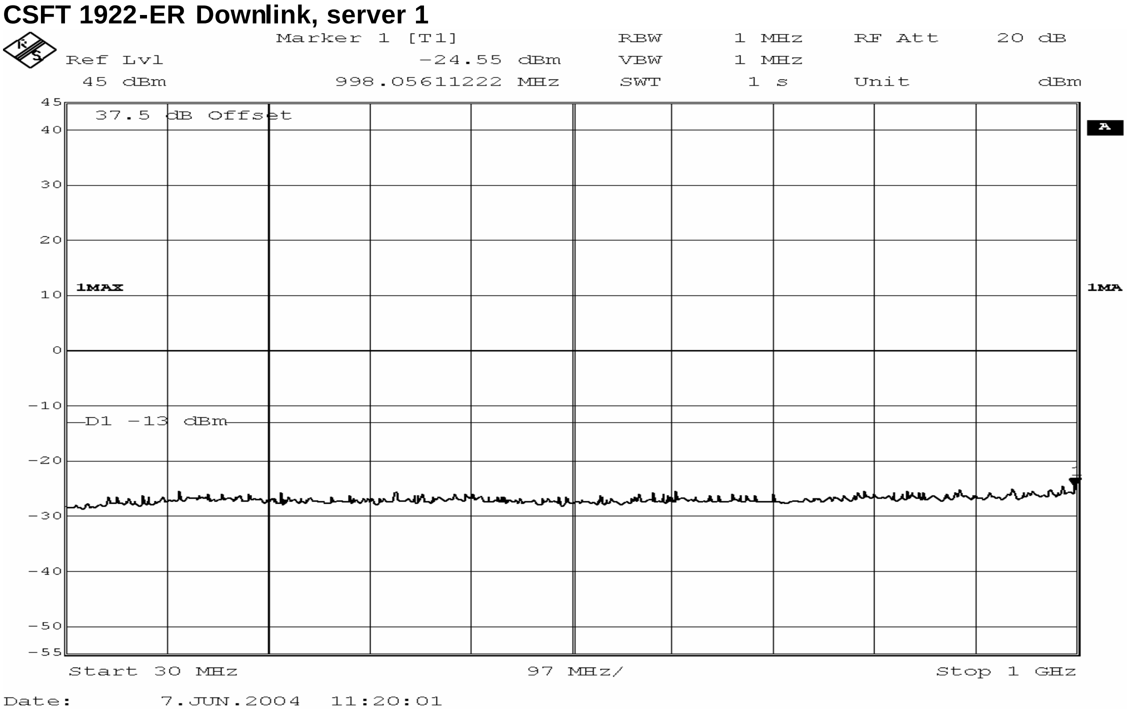
Uplink, donor 2

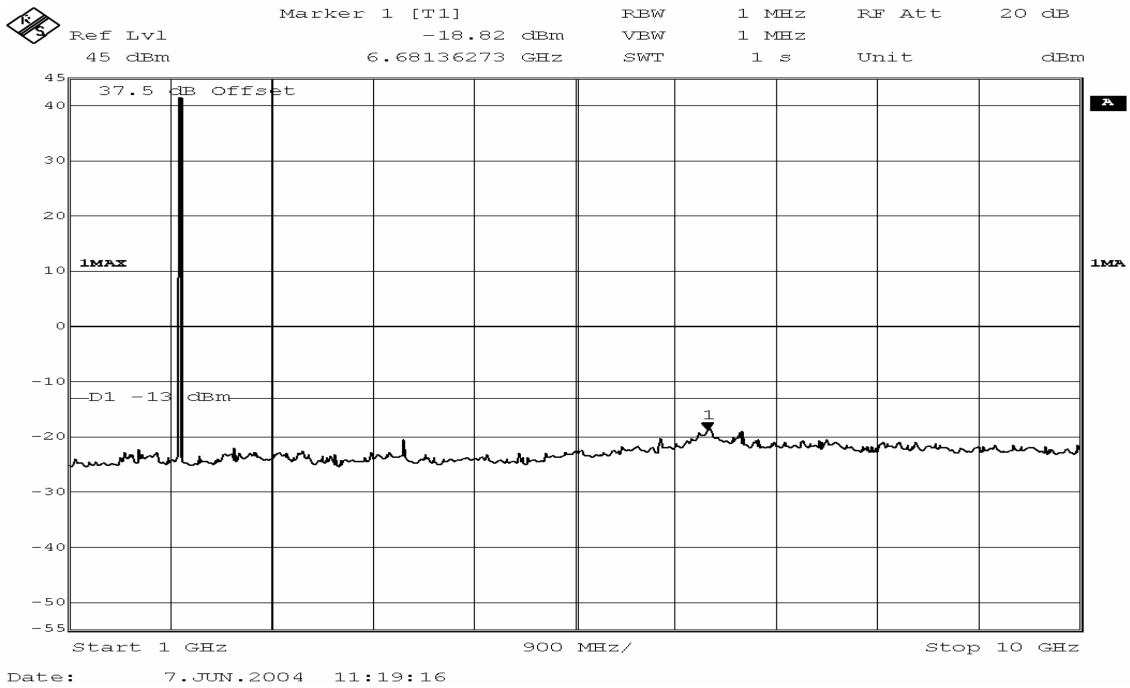


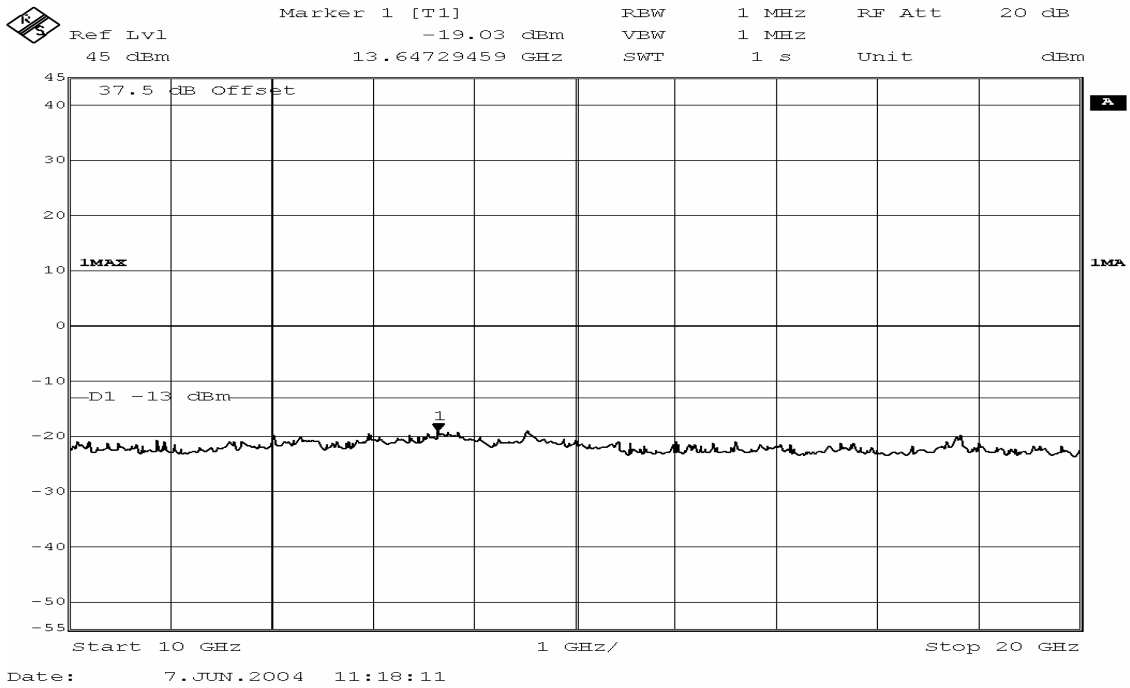




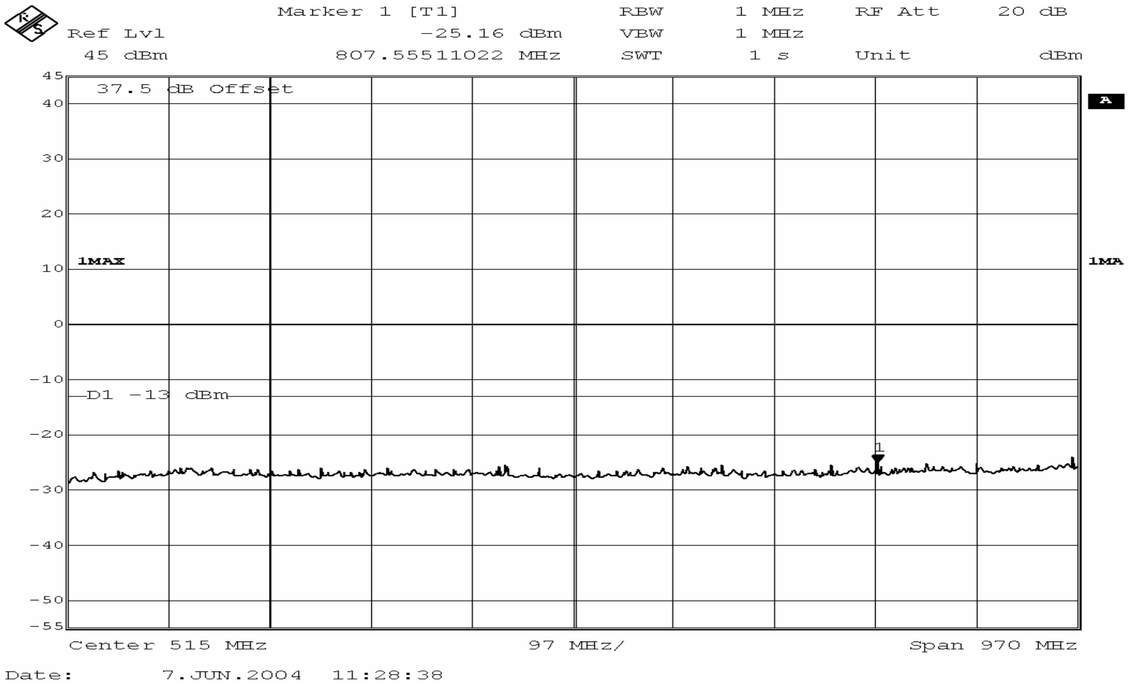
CSFT 1922-ER Downlink, server 1

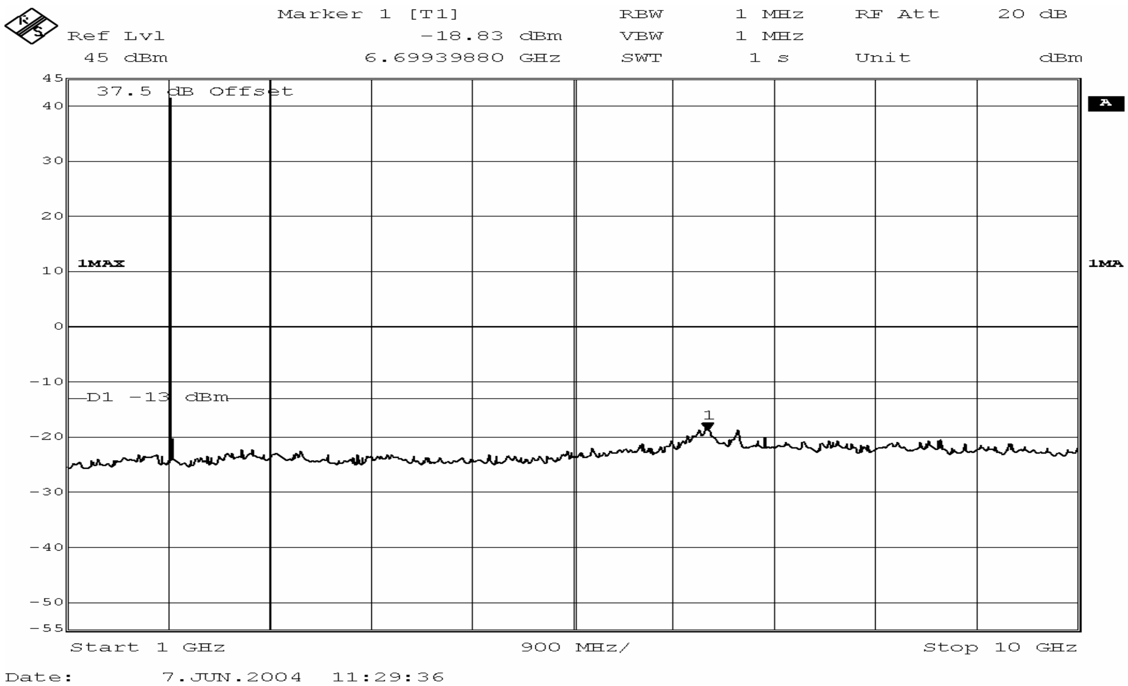


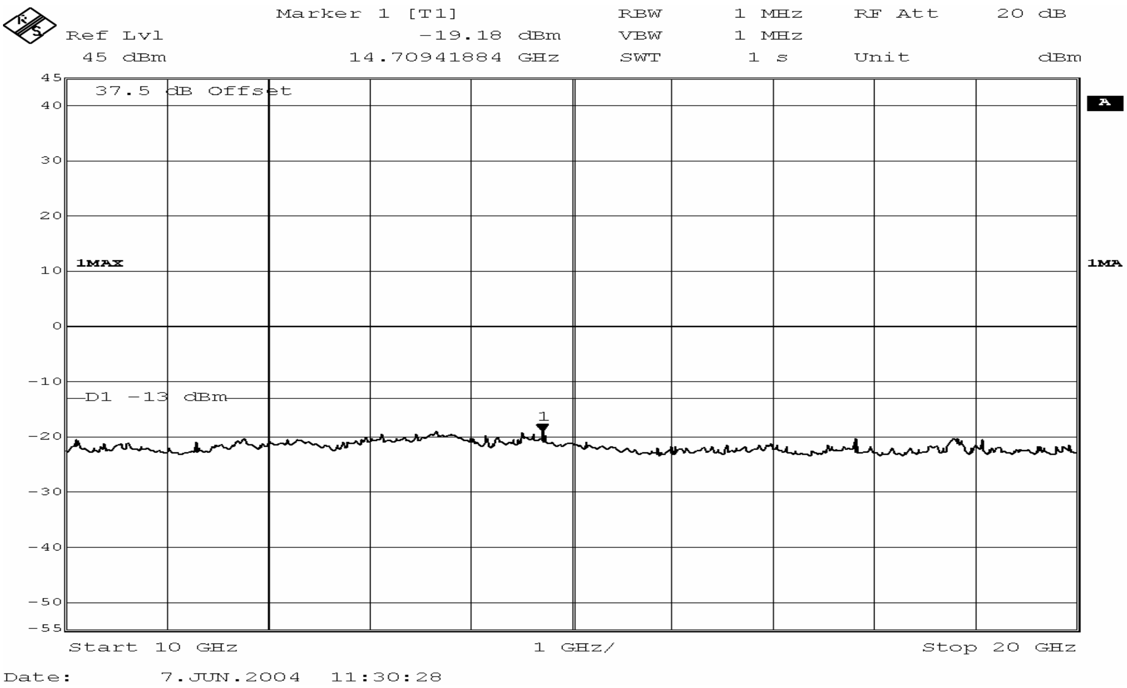

Marker 1 [T1]
RBW 1 MHz
RF Att 20 dB
Ref Lvl
-18.82 dBm
VBW 1 MHz
45 dBm
6.68136273 GHz
SWT 1 s
Unit dBm
37.5 dB Offset
1MAX
1MA
D1 -13 dBm
Start 1 GHz
900 MHz/
Stop 10 GHz
Date: 7.JUN.2004 11:19:16


Marker 1 [T1]
RBW 1 MHz
RF Att 20 dB
Ref Lvl
-19.03 dBm
VBW 1 MHz
45 dBm
13.64729459 GHz
SWT 1 s
Unit dBm
37.5 dB Offset
1MAX
1MA
D1 -13 dBm
Start 10 GHz
1 GHz/
Stop 20 GHz
Date: 7.JUN.2004 11:18:11

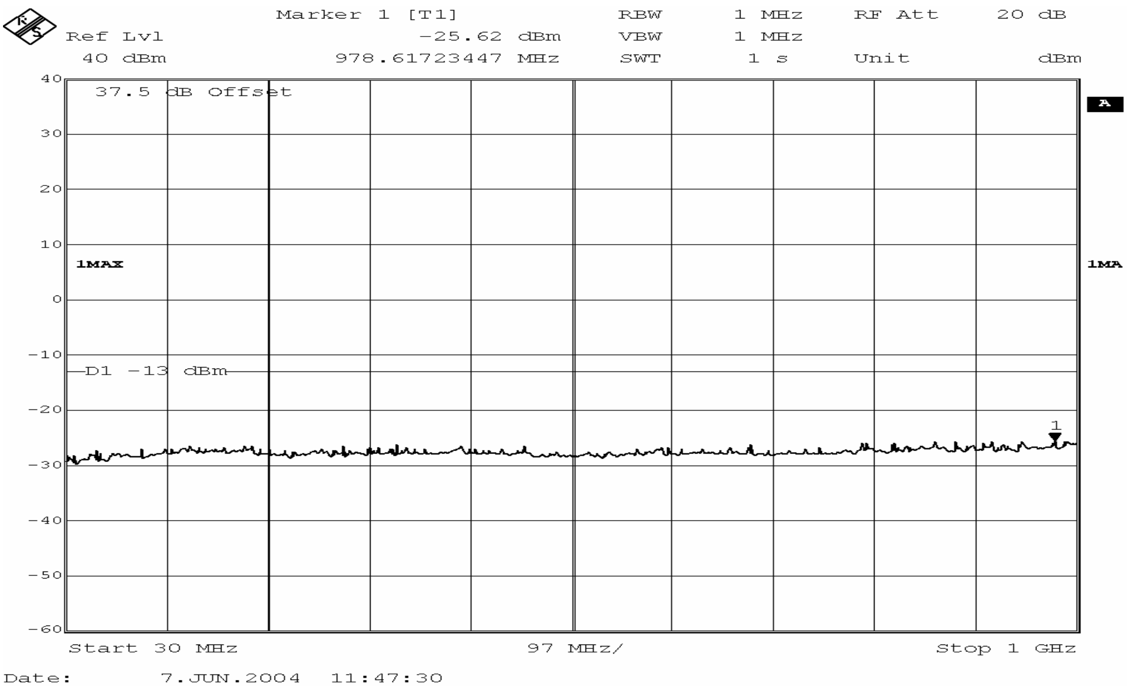
Downlink, server 2

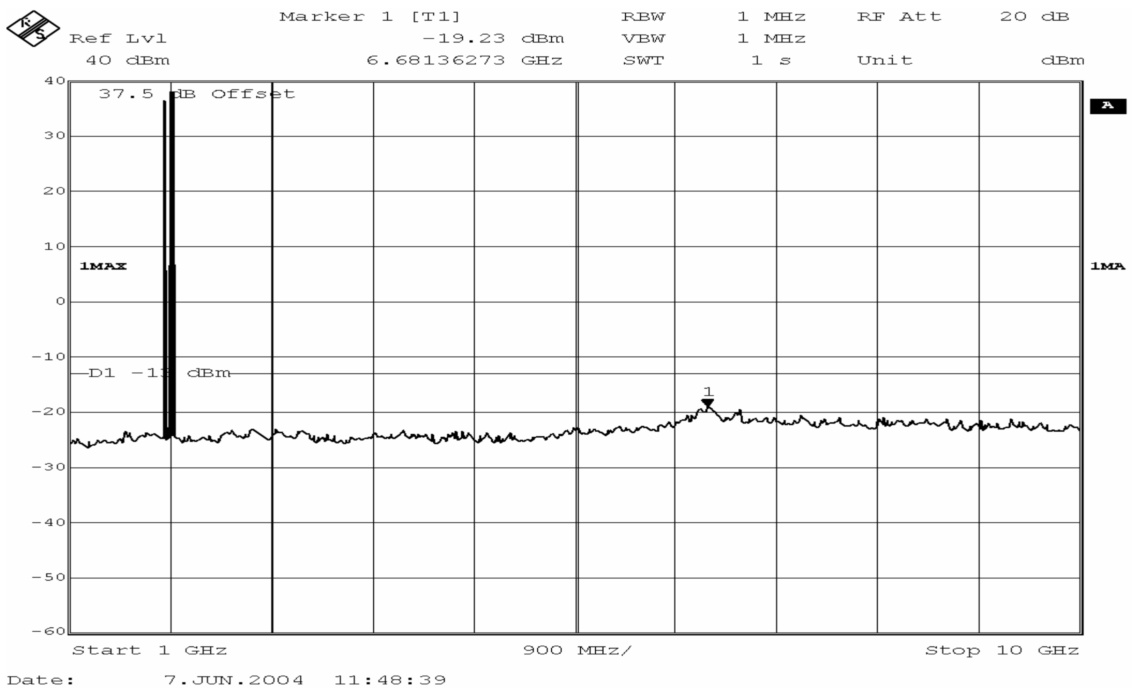


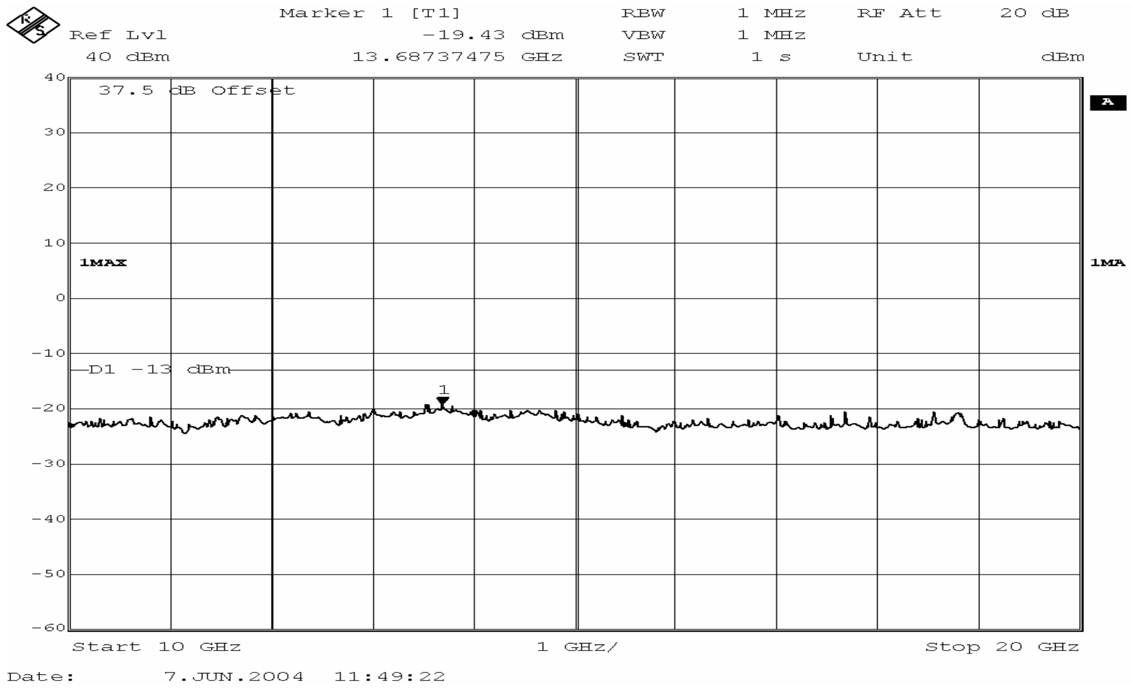



Marker 1 [T1]
Ref Lvl
45 dBm
-19.18 dBm
14.70941884 GHz
RBW 1 MHz
VBW 1 MHz
SWT 1 s
RF Att 20 dB
Unit dBm
37.5 dB Offset
1MAX
D1 -13 dBm
Start 10 GHz
1 GHz/
Stop 20 GHz
Date: 7.JUN.2004 11:30:28

Uplink


Marker 1 [T1]
Ref Lvl
40 dBm
-25.62 dBm
978.61723447 MHz
RBW 1 MHz
VBW 1 MHz
SWT 1 s
RF Att 20 dB
Unit dBm
37.5 dB Offset
1MAX
D1 -13 dBm
Start 30 MHz
97 MHz/
Stop 1 GHz
Date: 7.JUN.2004 11:47:30


Ref Lvl
40 dBm
Marker 1 [T1]
-19.23 dBm
6.68136273 GHz
RBW 1 MHz
VBW 1 MHz
SWT 1 s
RF Att 20 dB
Unit dBm
37.5 dB Offset
1MAX
1MA
A
D1 -13 dBm
1
Start 1 GHz
900 MHz/
Stop 10 GHz
Date: 7.JUN.2004 11:48:39


Ref Lvl
40 dBm
Marker 1 [T1]
-19.43 dBm
13.68737475 GHz
RBW 1 MHz
VBW 1 MHz
SWT 1 s
RF Att 20 dB
Unit dBm
37.5 dB Offset
1MAX
1MA
A
D1 -13 dBm
1
Start 10 GHz
1 GHz/
Stop 20 GHz
Date: 7.JUN.2004 11:49:22

CSFT 1922-DD

Frequency /MHz	Tested port	Intermod. product level /dBm	Permitted limit /dBm
30 – 10000	DL	< -18	-13
30 – 10000	UL	< -31	-13

CSFT 1922-ER

Frequency /MHz	Tested port	Intermod. product level /dBm	Permitted limit /dBm
30 - 10000	DL	< -18	-13
30 - 10000	UL	< -18	-13

APPENDIX – PHOTOS OF THE EUT

CSFT 1922-ER

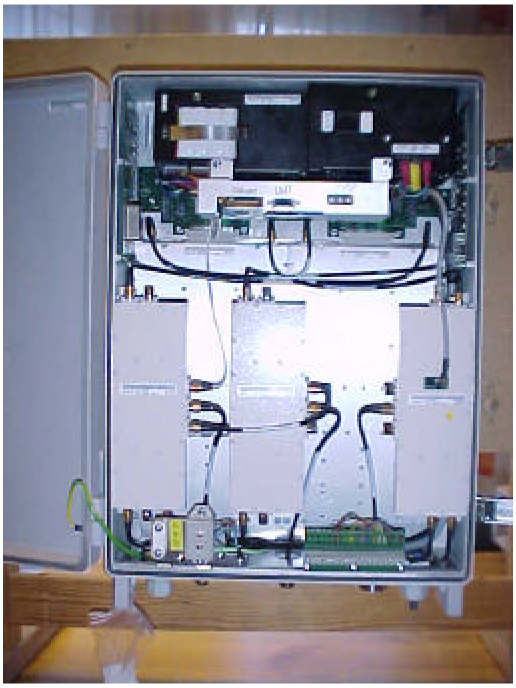
Cabinet

Inside

CSFT 1922-DD

Cabinet

Inside



Identification photos