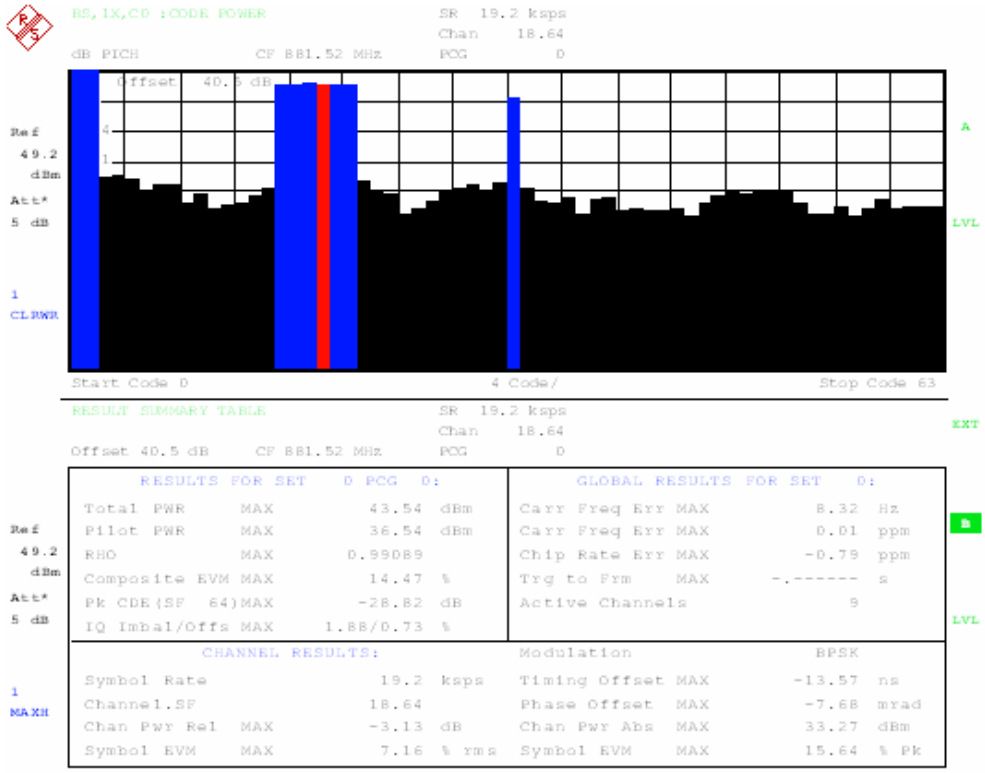
Appendix A

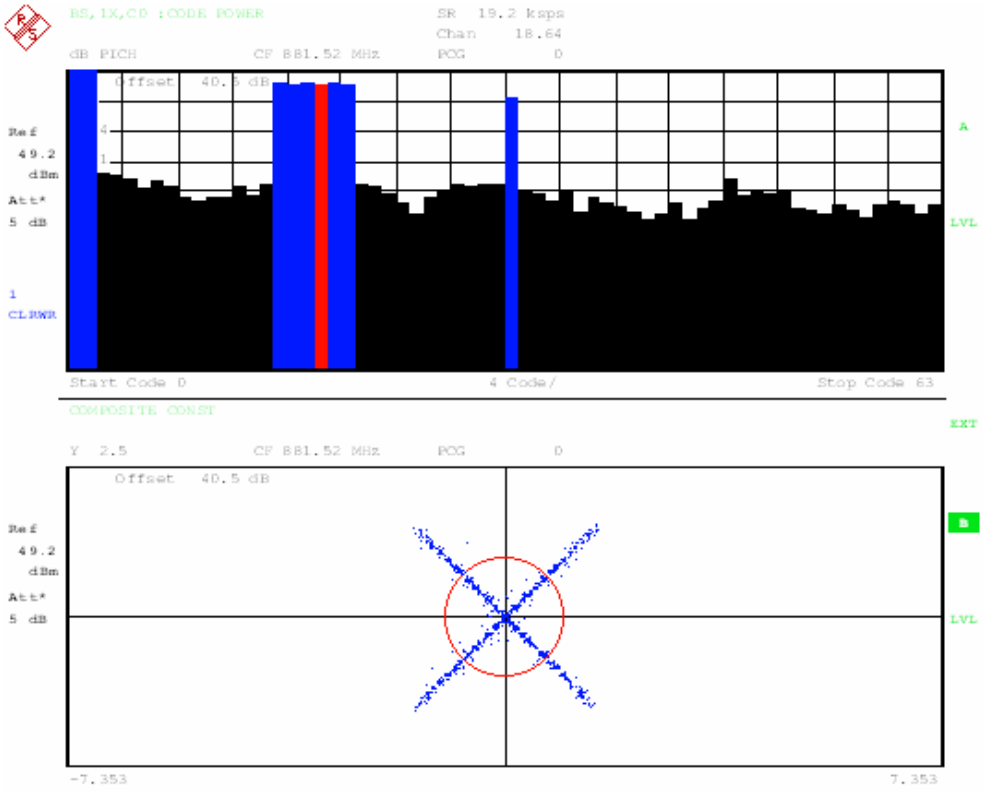
Modulation Characteristic Measurement

According to CFR 47 (FCC) part 2.1047

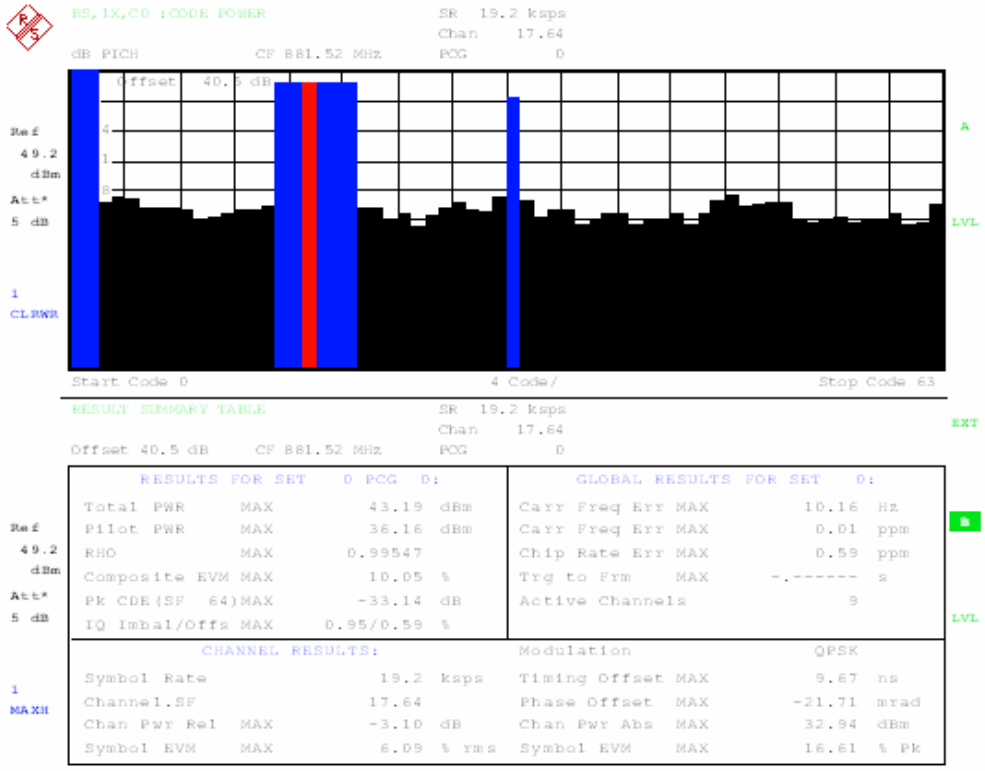
Measurement Result
CDMA2000 1X:

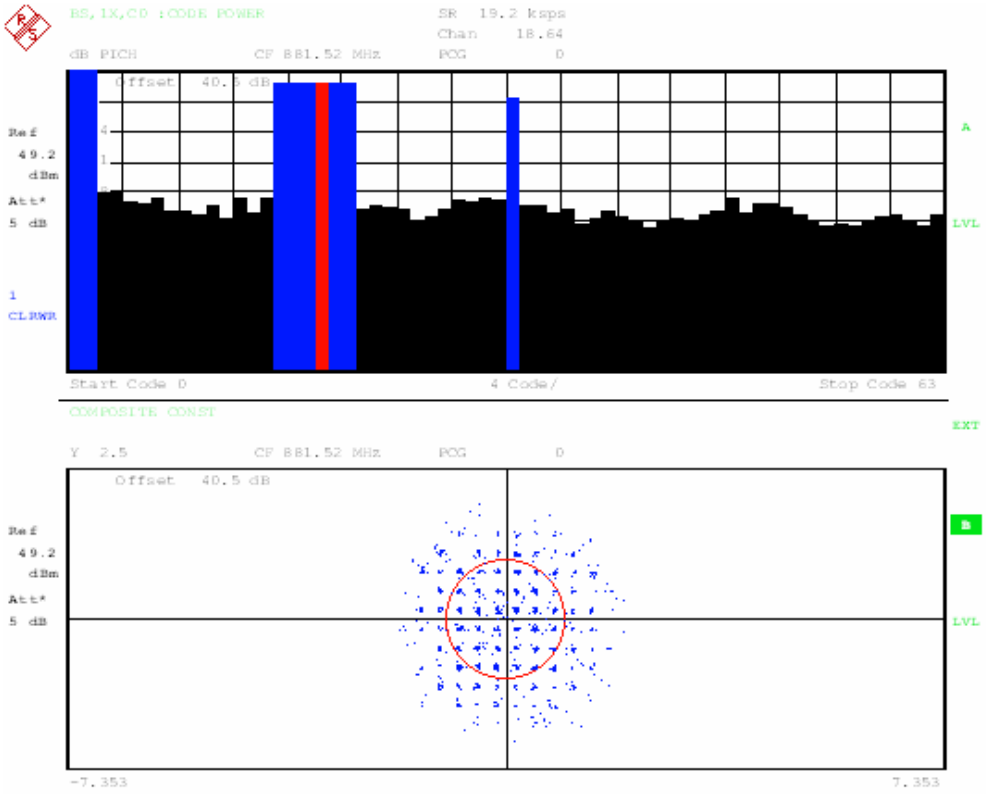
Channel 384
RC1




BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
POG 0
Offset 40.5 dB
Ref
49.2
dBm
Att*
5 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
COMPOSITE CONST
EXT
Y 2.5
CF 881.52 MHz
POG 0
Offset 40.5 dB
Ref
49.2
dBm
Att*
5 dB
LVL
-7.353
7.353

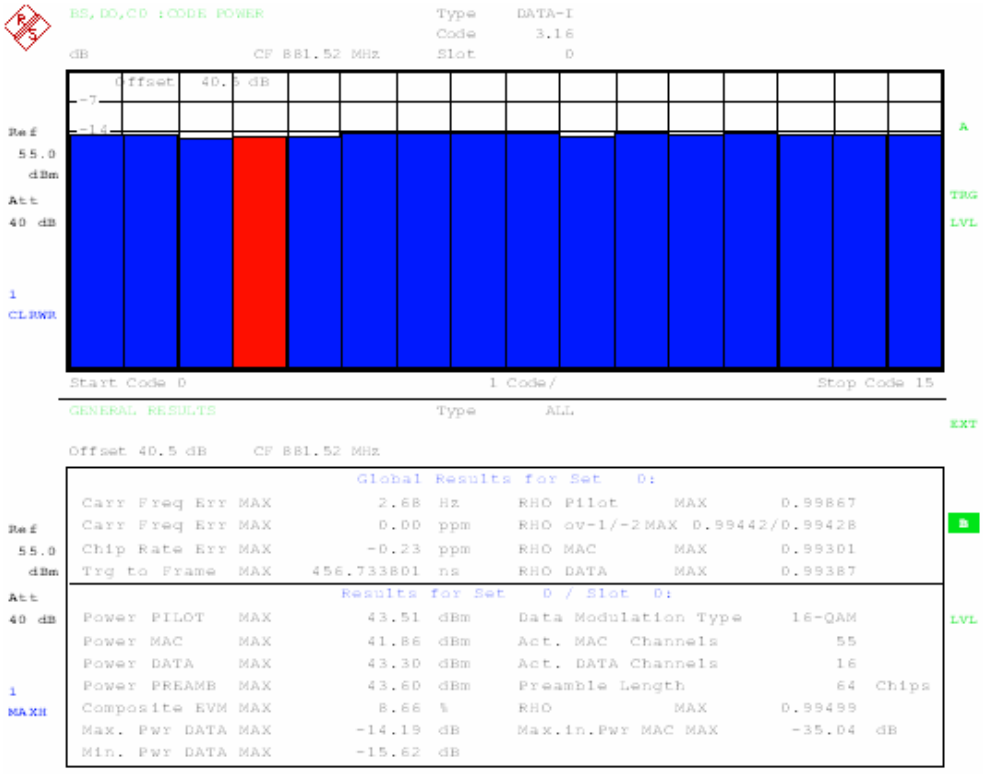
RC3


BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 17.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 40.5 dB
Ref
49.2
dBm
Att*
5 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 17.64
Offset 40.5 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.19 dBm
Pilot PWR MAX 36.16 dBm
RHO MAX 0.99547
Composite EVM MAX 10.05 %
Pk CDE(SF 64)MAX -33.14 dB
IQ Imbal/Offs MAX 0.95/0.59 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX 10.16 Hz
Carr Freq Err MAX 0.01 ppm
Chip Rate Err MAX 0.59 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 17.64
Chan Pwr Rel MAX -3.10 dB
Symbol EVM MAX 6.09 % rms
Timing Offset MAX 9.67 ns
Phase Offset MAX -21.71 mrad
Chan Pwr Abs MAX 32.94 dBm
Symbol EVM MAX 16.61 % Pk
MAXH


BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 40.5 dB
Ref
49.2
dBm
Att*
5 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
COMPOSITE CONST
EXT
Y 2.5
CF 881.52 MHz
PCG 0
Offset 40.5 dB
Ref
49.2
dBm
Att*
5 dB
B
LVL
-7.353
7.353

CDMA2000 1X EV-DO:

Channel 384



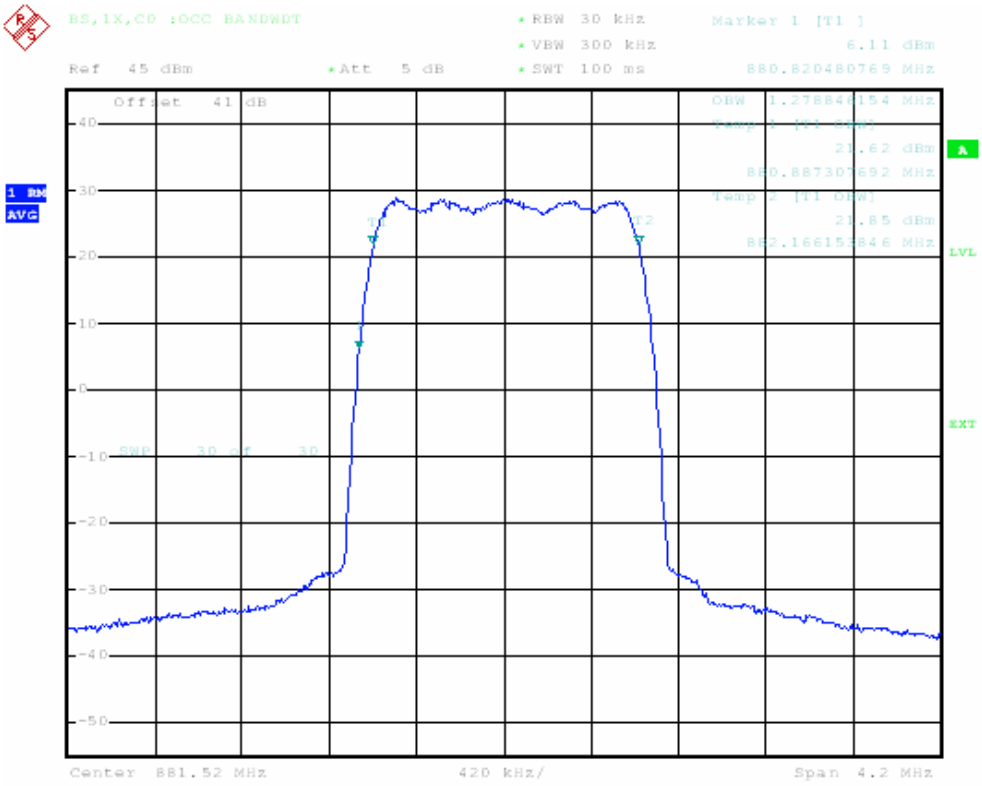
Appendix B

Occupied Bandwidth Measurement

According to CFR 47 (FCC) part 2.1049

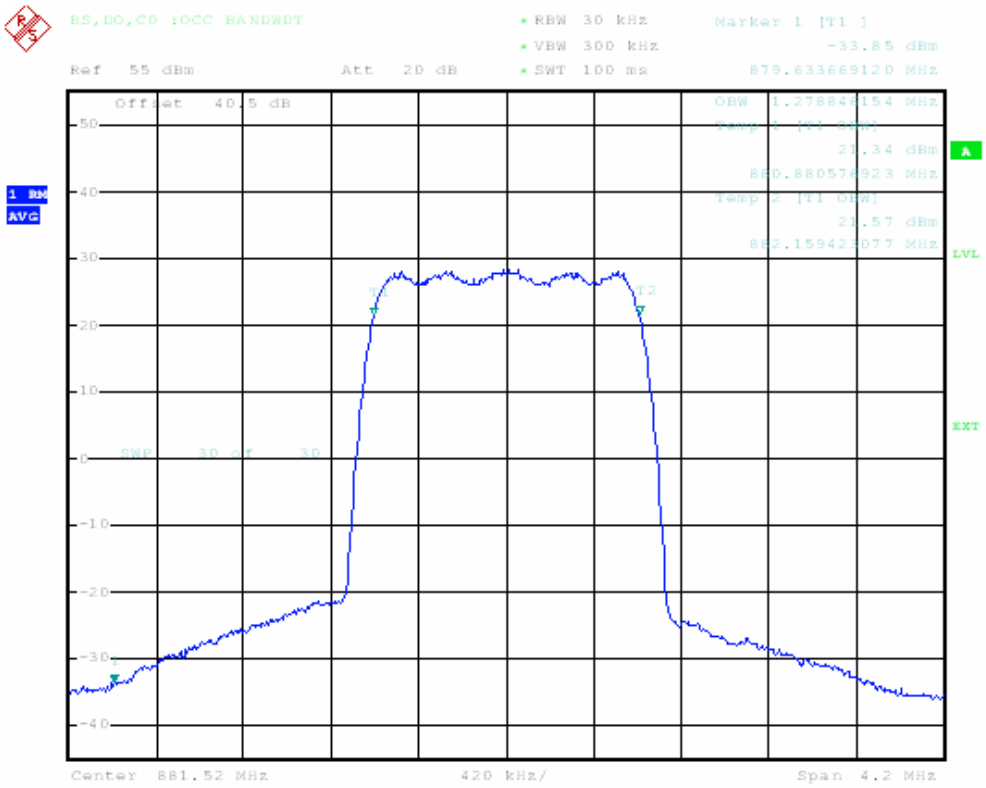
Measurement Result
CDMA2000 1X

Channel 384



CDMA2000 1X EV-DO

Channel 384



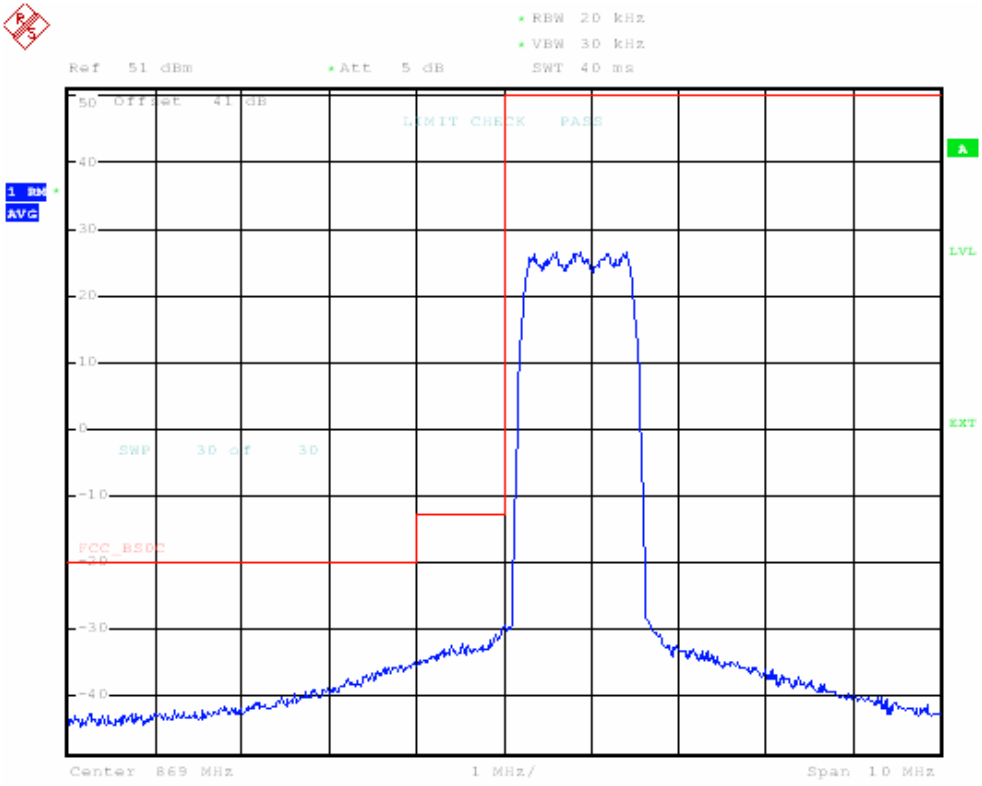
Appendix C

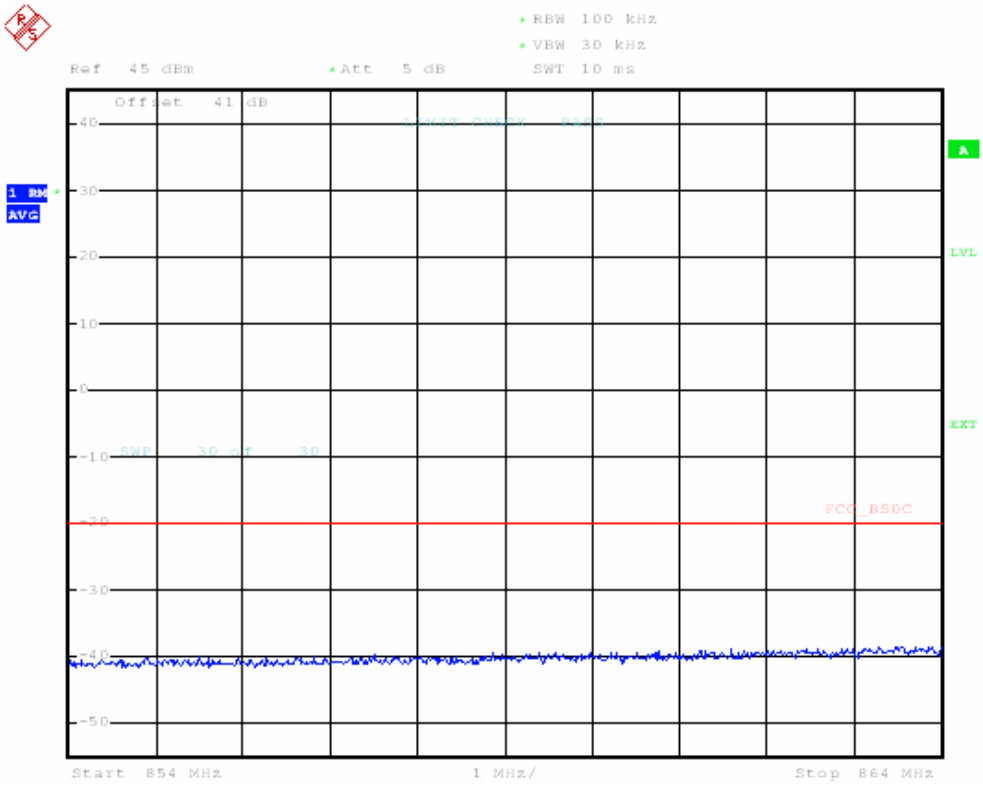
Band Edge Measurement

According to FCC Part 2.1051 & 22.917

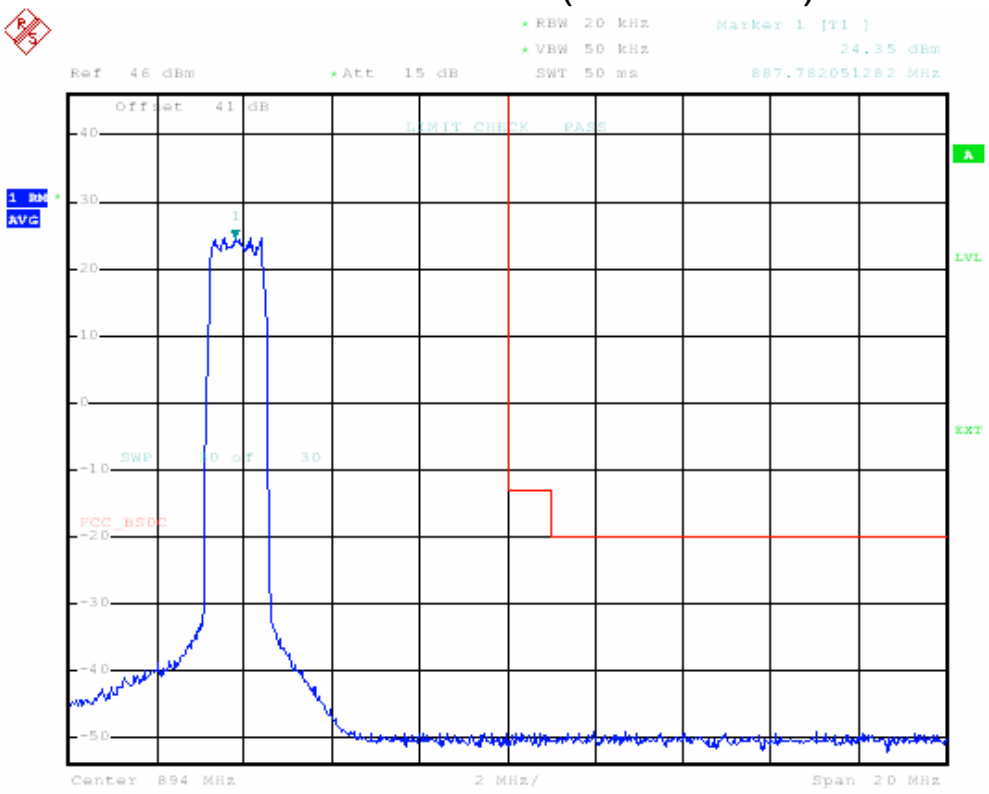
Measurement Result
CDMA2000 1X:
A. Single Carrier:

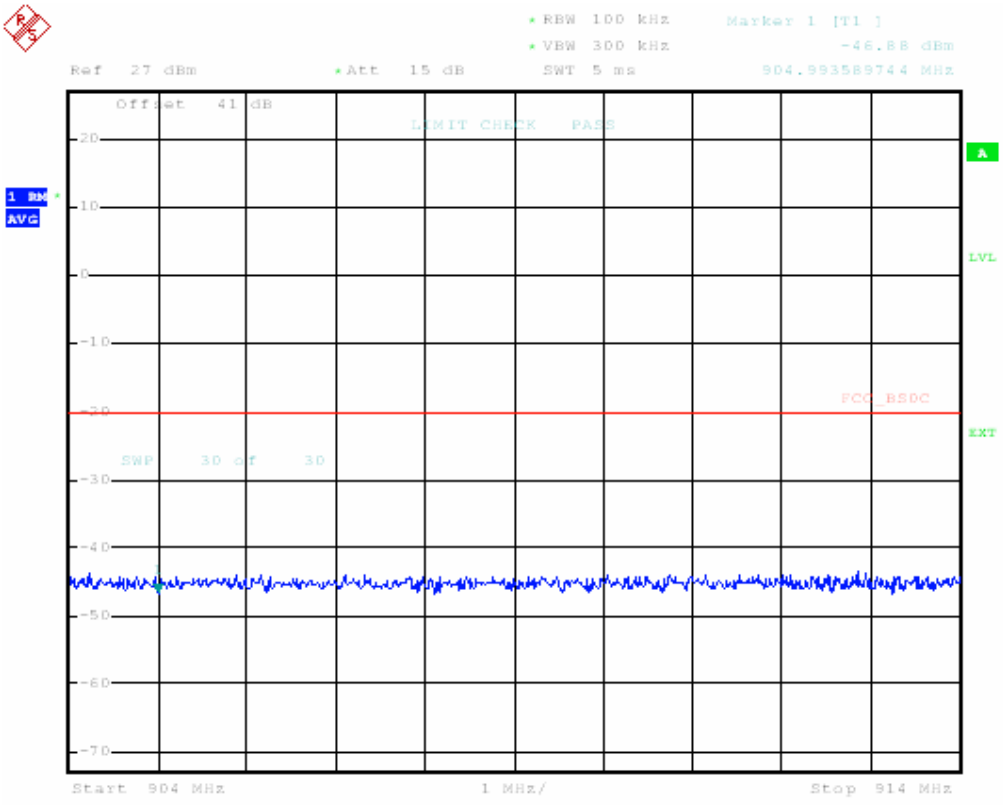
Channel 1018(869.85MHz)




RBW 100 kHz
VBW 30 kHz
Ref 45 dBm
Att 5 dB
SWT 10 ms
Offset 41 dB
1 RM
AVG
A
LVL
EXT
FCC_BSDC
Start 854 MHz
1 MHz/
Stop 864 MHz

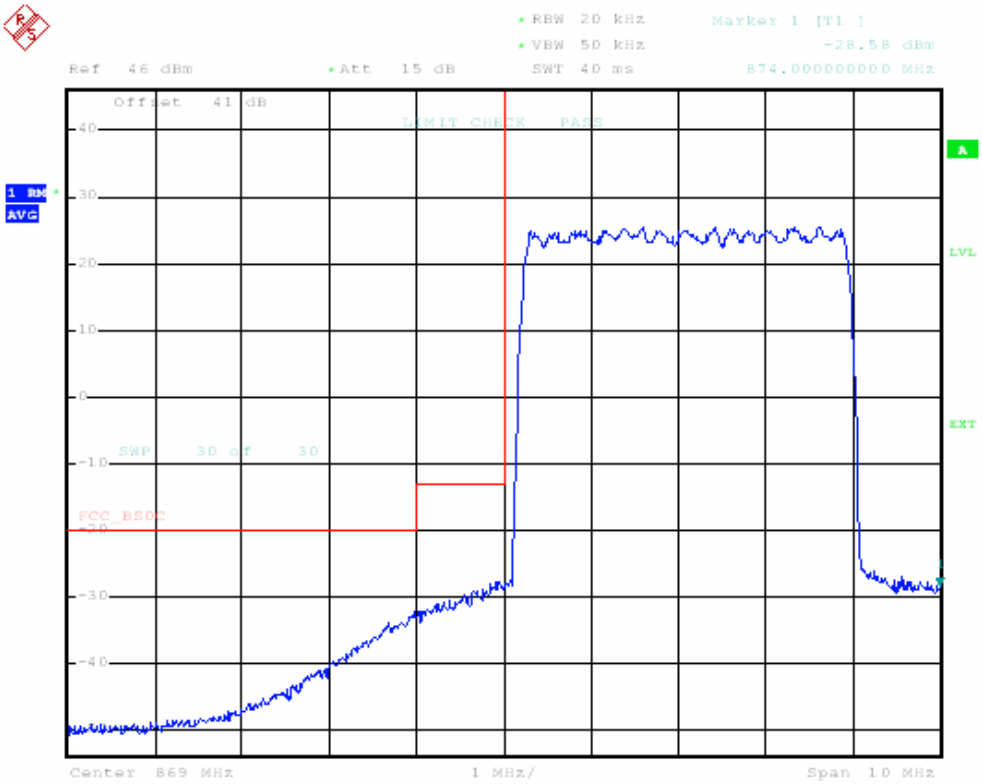
Channel 594(887.82MHz)

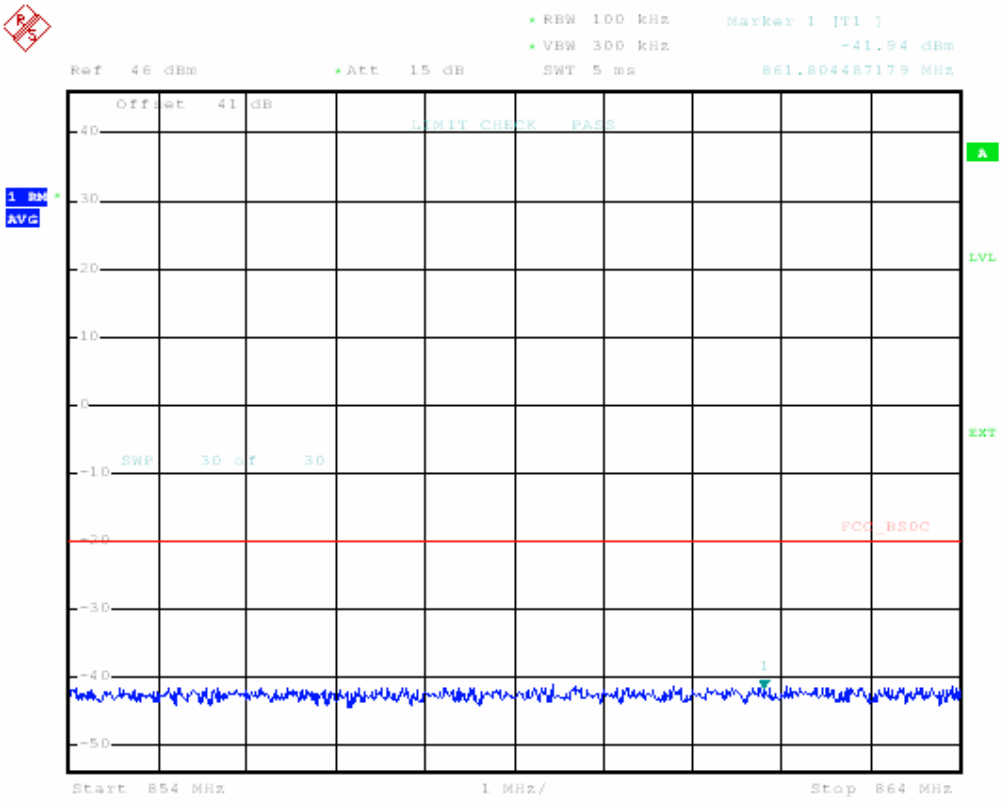



RBW 100 kHz
VBW 300 kHz
SWT 5 ms
Marker 1 [T1]
-46.88 dBm
904.993589744 MHz
Ref 27 dBm
Att 15 dB
Offset 41 dB
LIMIT CHECK PASS
1 RM
AVG
A
LVL
EXT
FCC_BSDC
SWP 30 dB 30
Start 904 MHz
1 MHz/
Stop 914 MHz

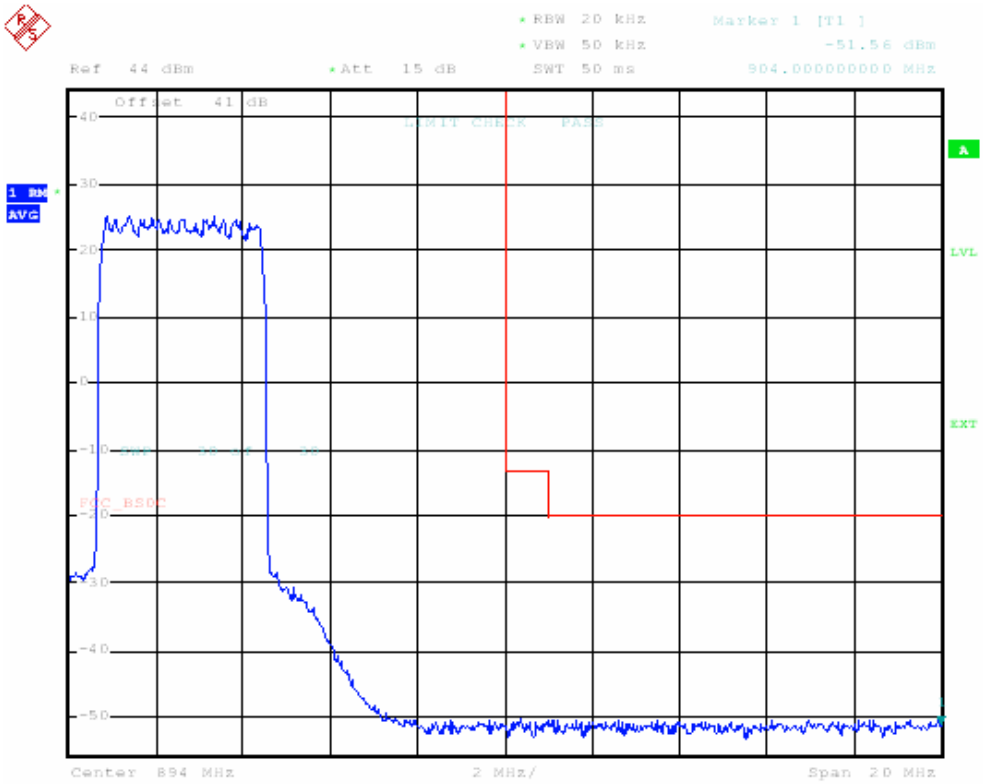
B. Multiple Carriers:

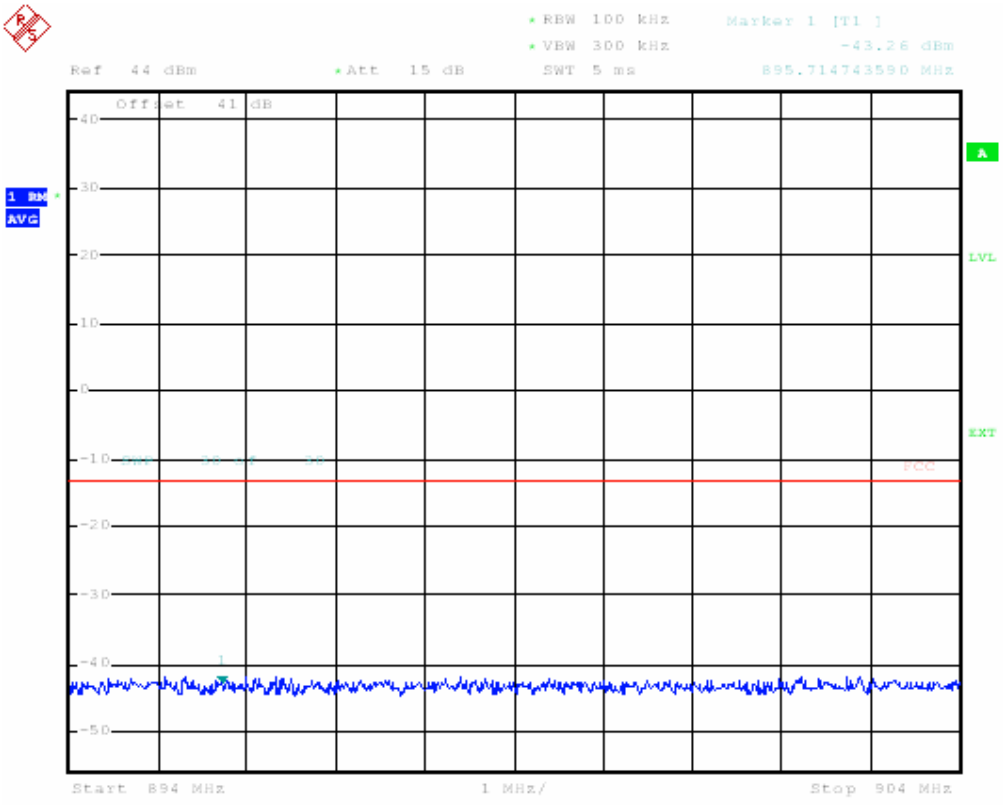
Channel Number: 1018/36/77




RBW 100 kHz
VBW 300 kHz
SWT 5 ms
Marker 1 [T1]
-41.94 dBm
861.804487179 MHz
Ref 46 dBm
Att 15 dB
Offset 41 dB
LIMIT CHECK PASS
1 RM
AVG
A
LVL
EXT
SWP 30 of 30
FCC_BSDC
Start 854 MHz
1 MHz/
Stop 864 MHz

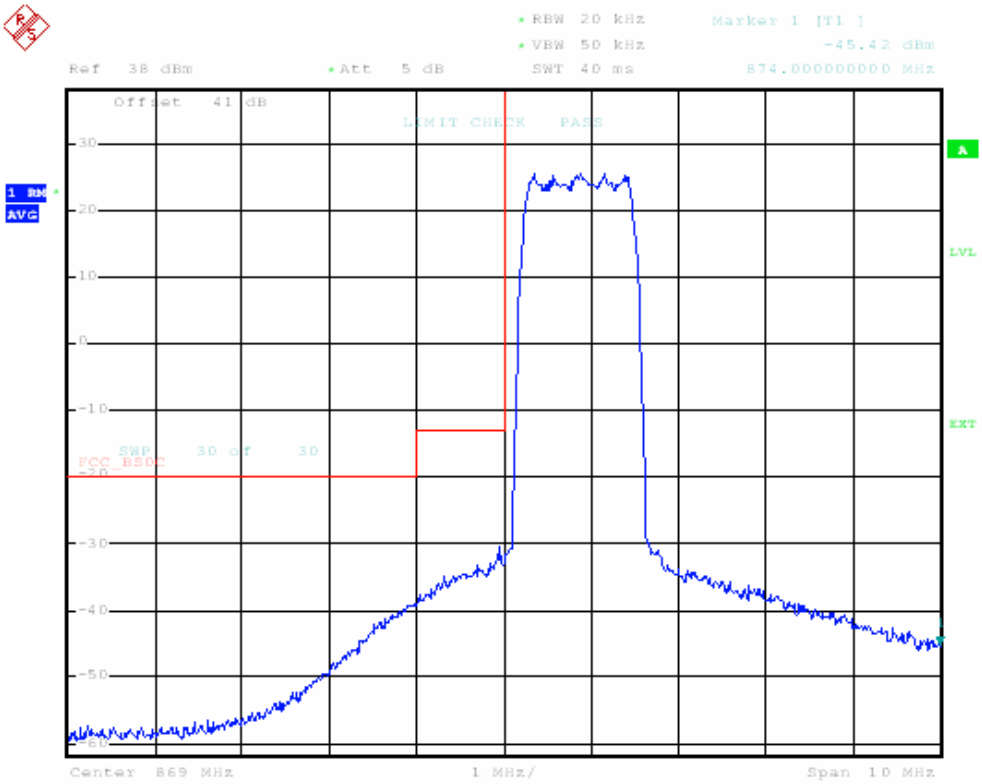
Channel Number: 512/553/594

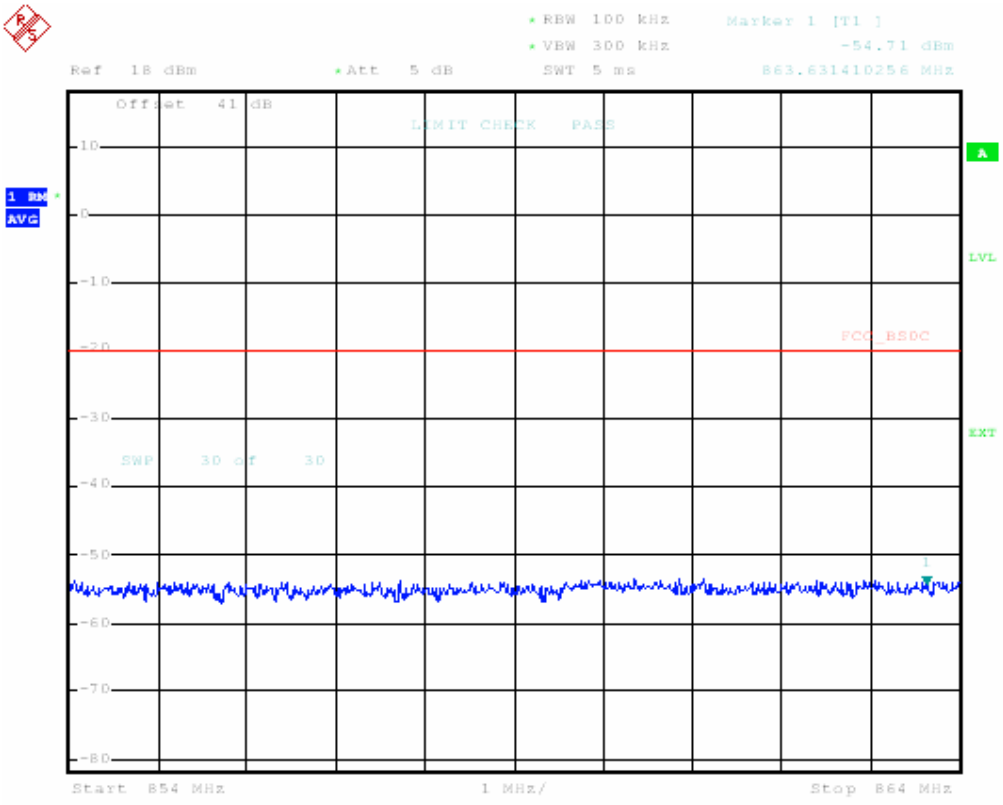



RBW 100 kHz
VBW 300 kHz
SWT 5 ms
Marker 1 [T1]
-43.26 dBm
895.714743590 MHz
Ref 44 dBm
Att 15 dB
Offset 41 dB
1 RM
AVG
A
LVL
EXT
FCC
Start 894 MHz
1 MHz/
Stop 904 MHz

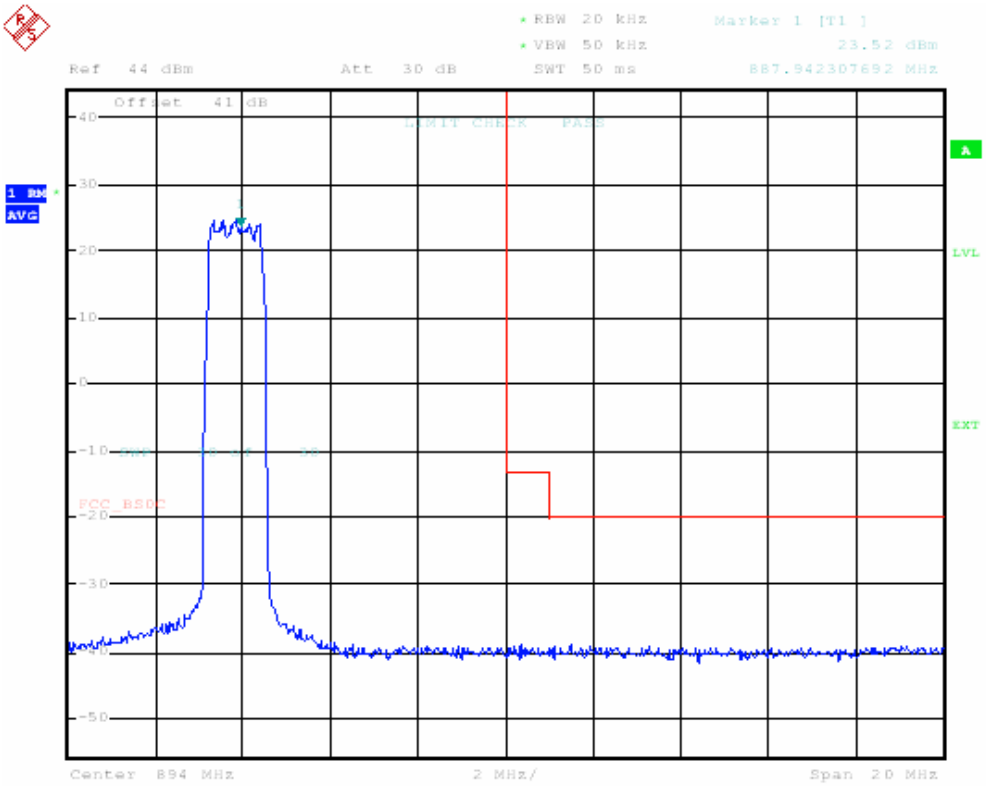
CDMA2000 1X EV-DO:

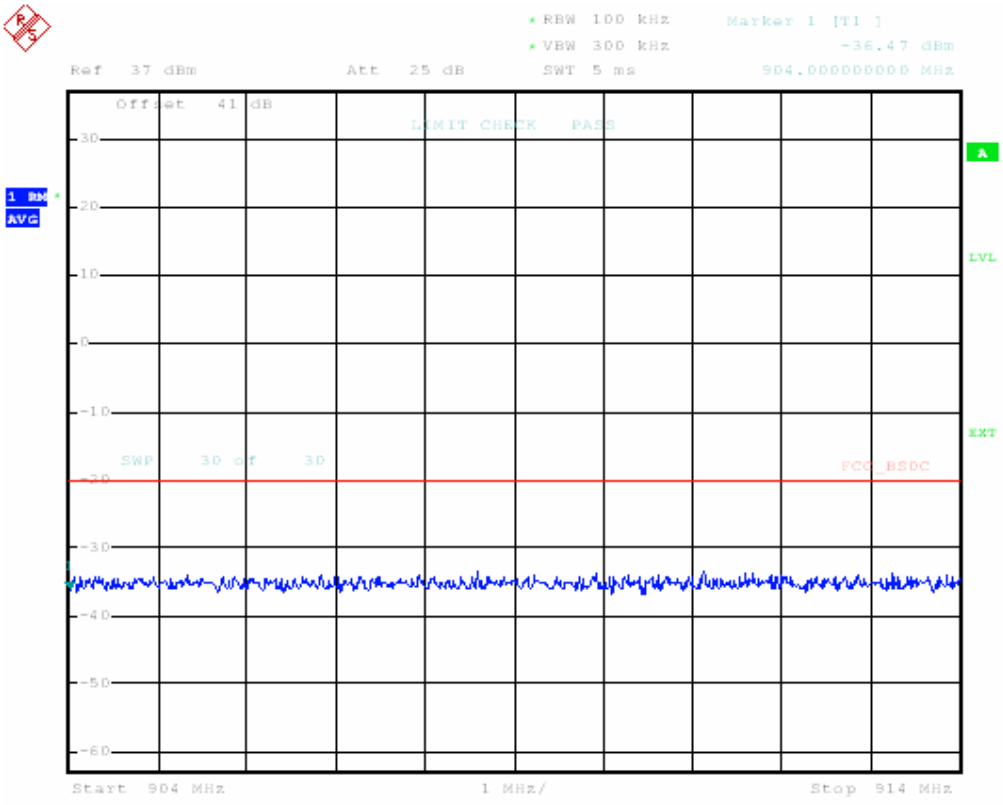
Channel Number: 1018




RBW 100 kHz
VBW 300 kHz
SWT 5 ms
Marker 1 [T1]
-54.71 dBm
863.631410256 MHz
Ref 18 dBm
Att 5 dB
Offset 41 dB
LIMIT CHECK PASS
1 RM
AVG
A
LVL
EXT
FCC_BSDC
SWP 30 of 30
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Start 854 MHz
1 MHz/
Stop 864 MHz

Channel Number: 594




RBW 100 kHz
VBW 300 kHz
SWT 5 ms
Marker 1 [T1]
-36.47 dBm
904.000000000 MHz
Ref 37 dBm
Att 25 dB
Offset 41 dB
LIMIT CHECK PASS
1 RM
AVG
A
LVL
EXT
SWP 30 dB 30
FCC_BSDC
Start 904 MHz
1 MHz/
Stop 914 MHz

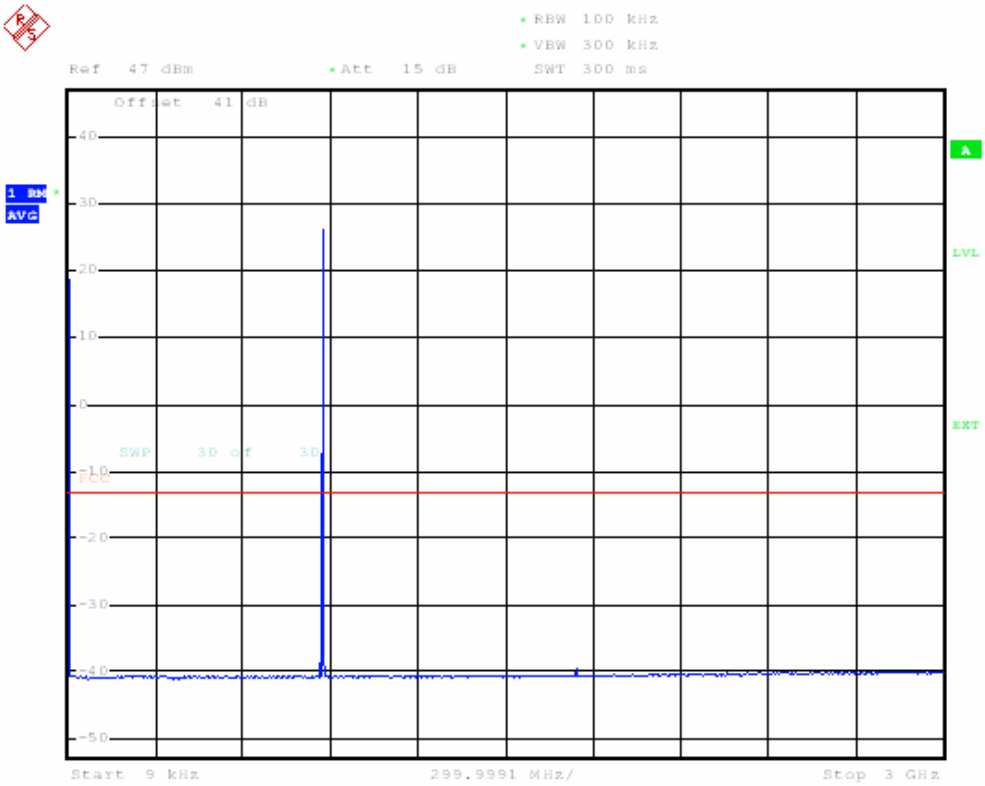
Appendix D

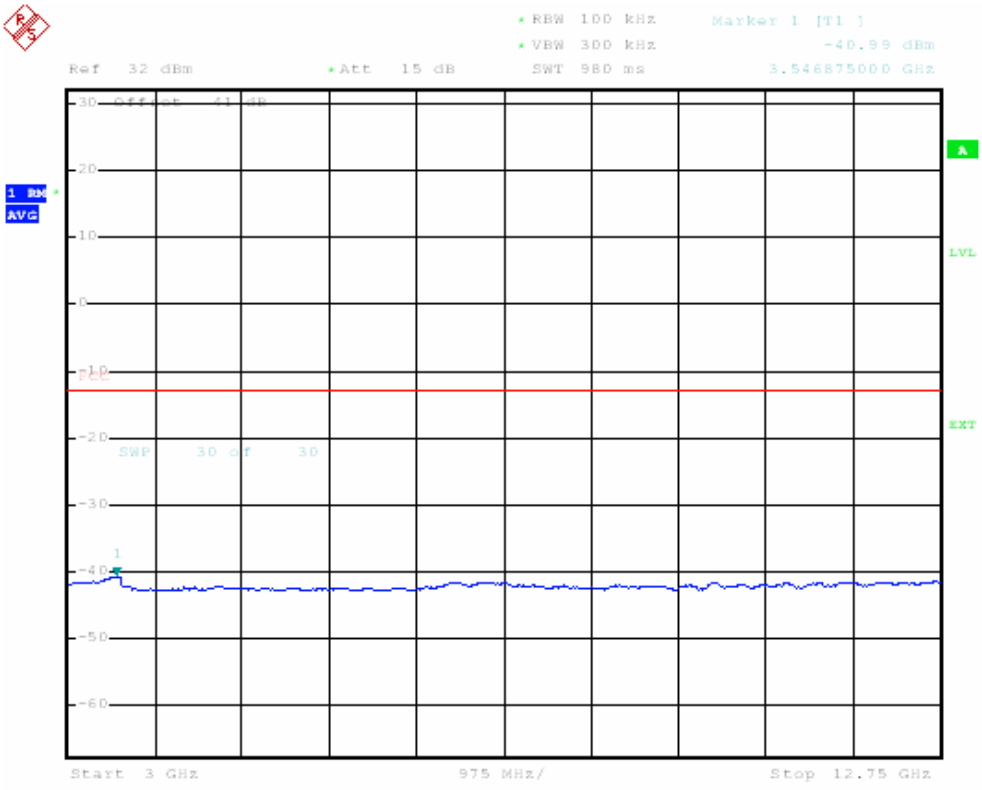
Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & 22.917

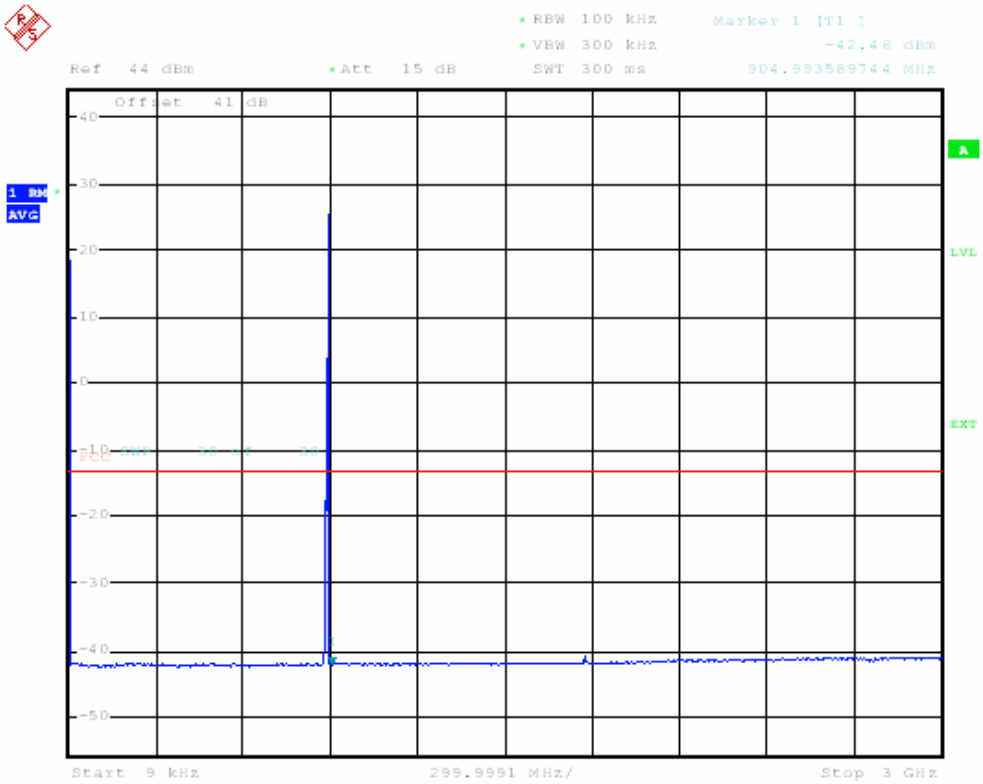
Measurement Result
CDMA2000 1X:
A. Single Carrier

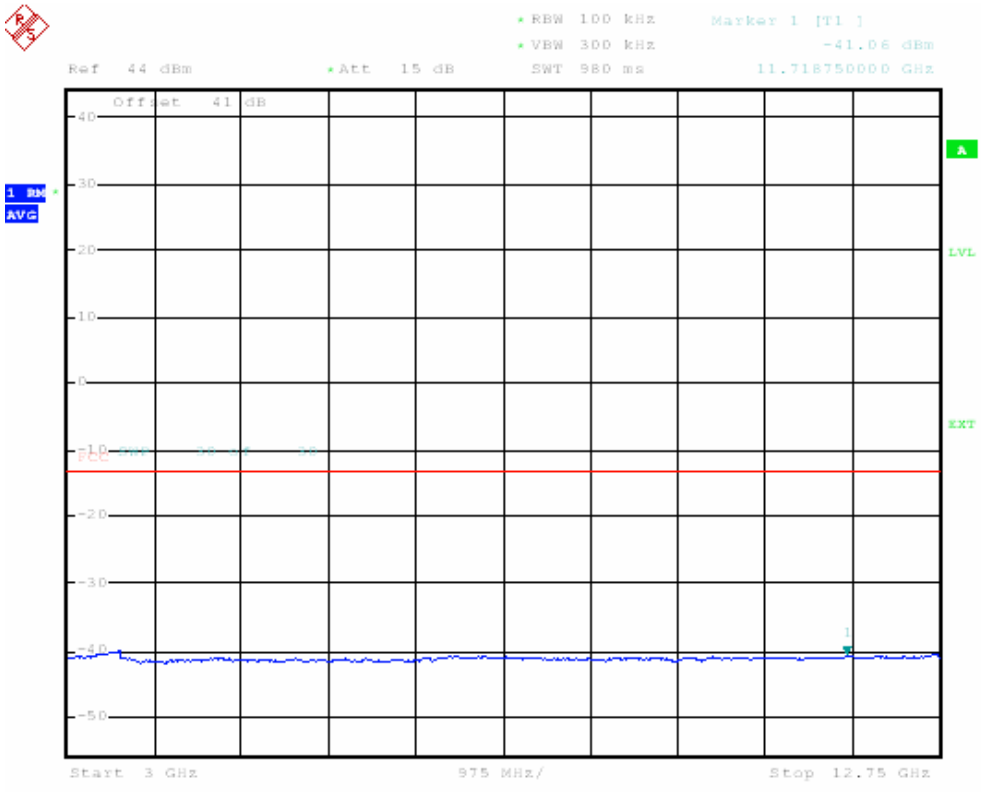
Channel Number:1018




RBW 100 kHz
VBW 300 kHz
SWT 980 ms
Marker 1 [T1]
-40.99 dBm
3.546875000 GHz
Ref 32 dBm
Att 15 dB
Offset 41 dB
1 RM
AVG
A
LVL
EXT
SWP 30 Off 30
Start 3 GHz
975 MHz/
Stop 12.75 GHz

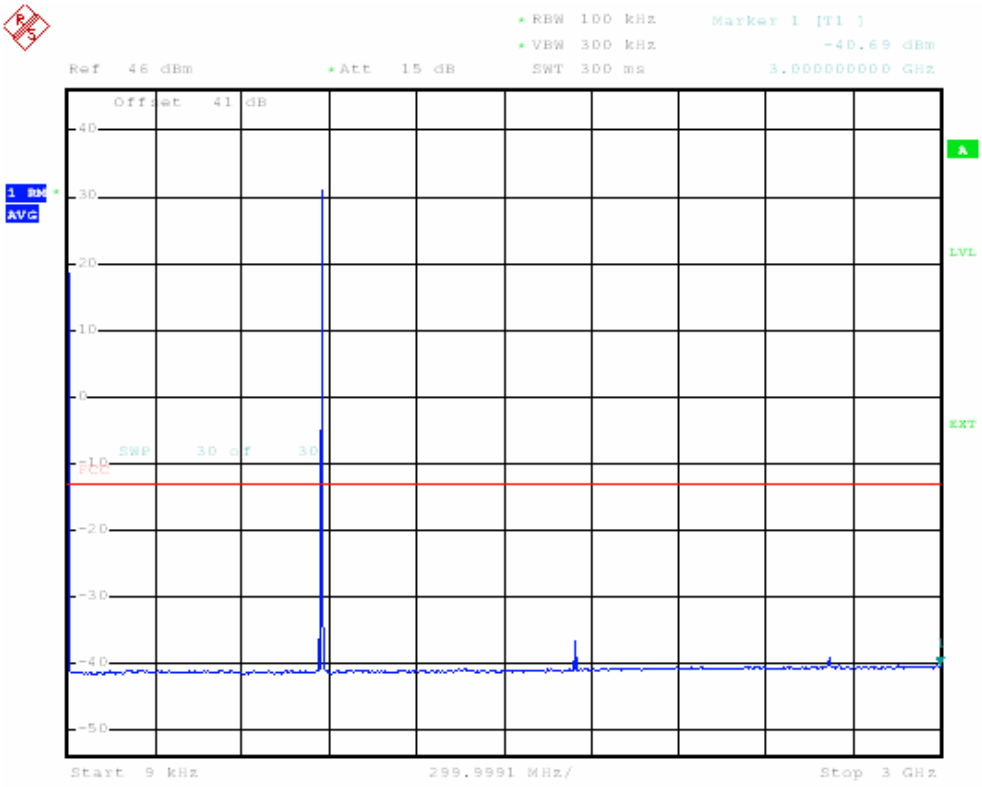
Channel Number:594

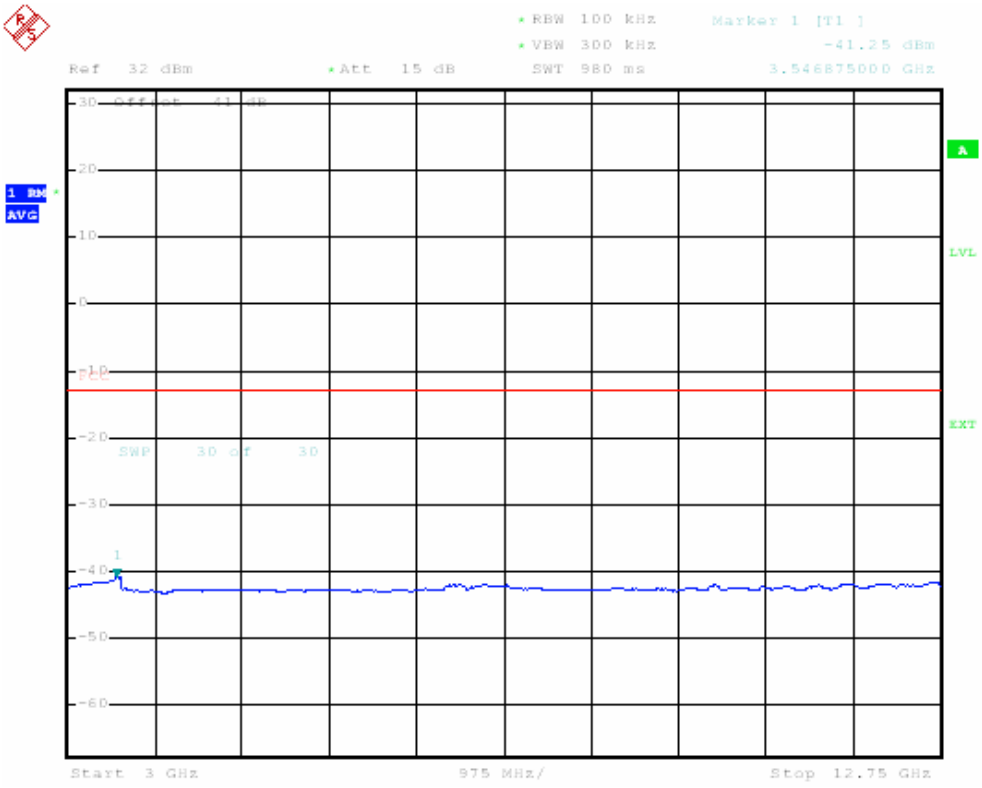



RBW 100 kHz
VBW 300 kHz
SWT 980 ms
Marker 1 [T1]
-41.06 dBm
11.718750000 GHz
Ref 44 dBm
Att 15 dB
Offset 41 dB
1 RM
AVG
A
LVL
EXT
PCC
Start 3 GHz
975 MHz/
Stop 12.75 GHz

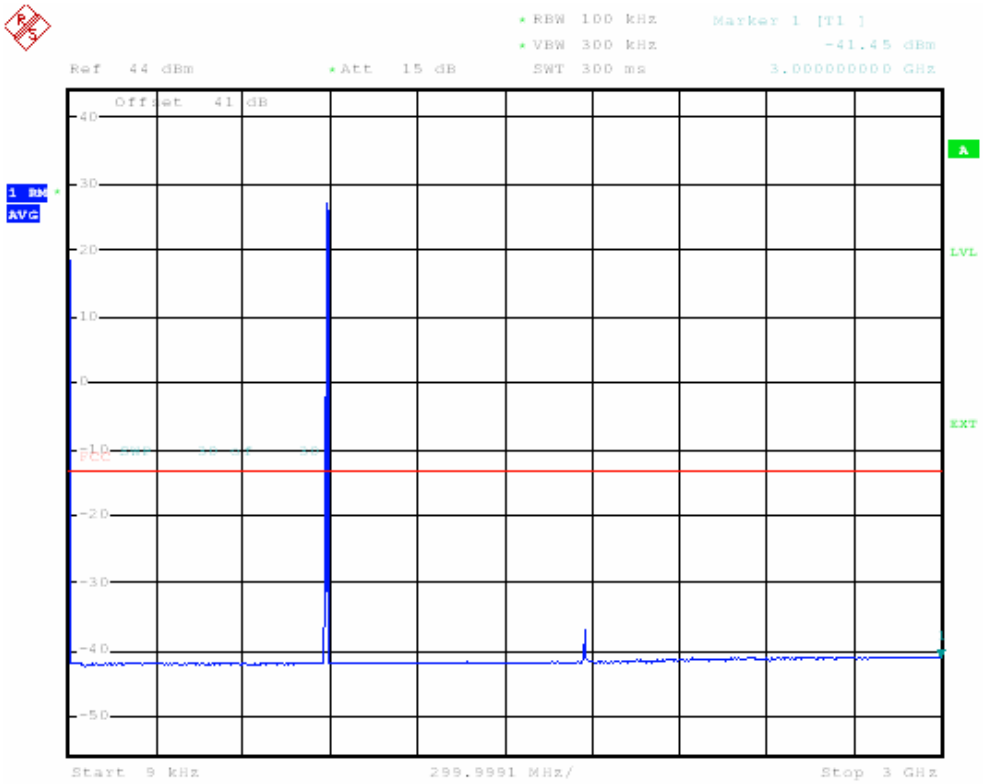
B. Multiple Carriers:

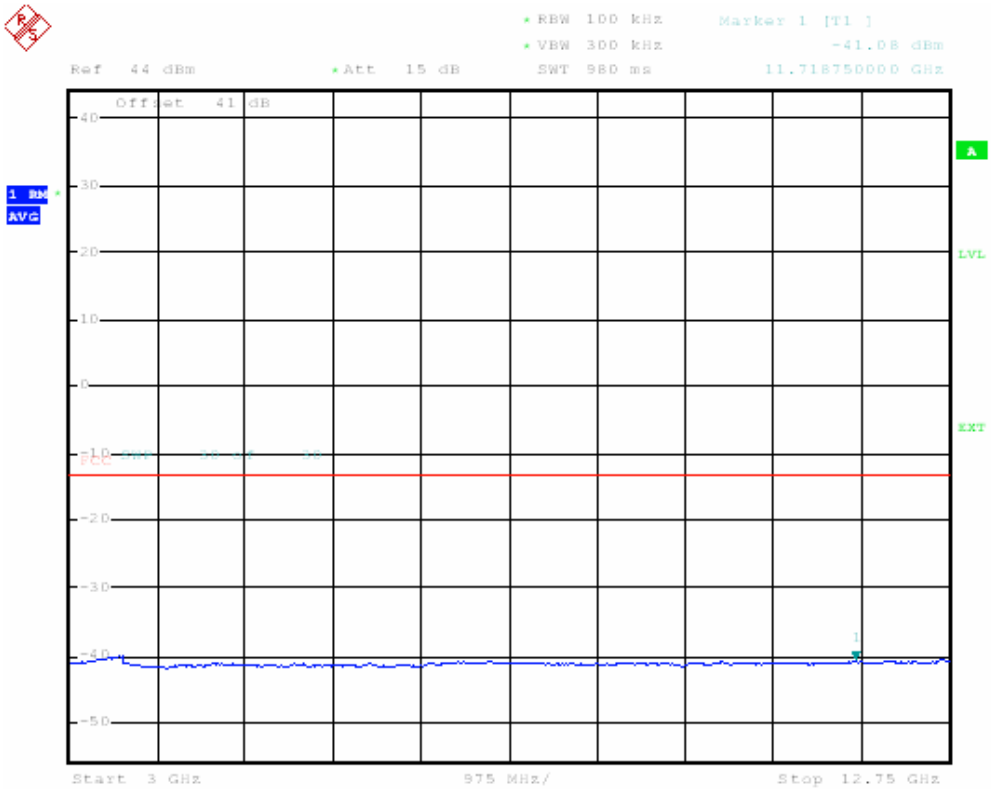
Channel Number:1018/36/77




RBW 100 kHz
VBW 300 kHz
SWT 980 ms
Marker 1 [T1]
-41.25 dBm
3.546875000 GHz
Ref 32 dBm
Att 15 dB
1 RM
AVG
A
LVL
EXT
Start 3 GHz
975 MHz/
Stop 12.75 GHz

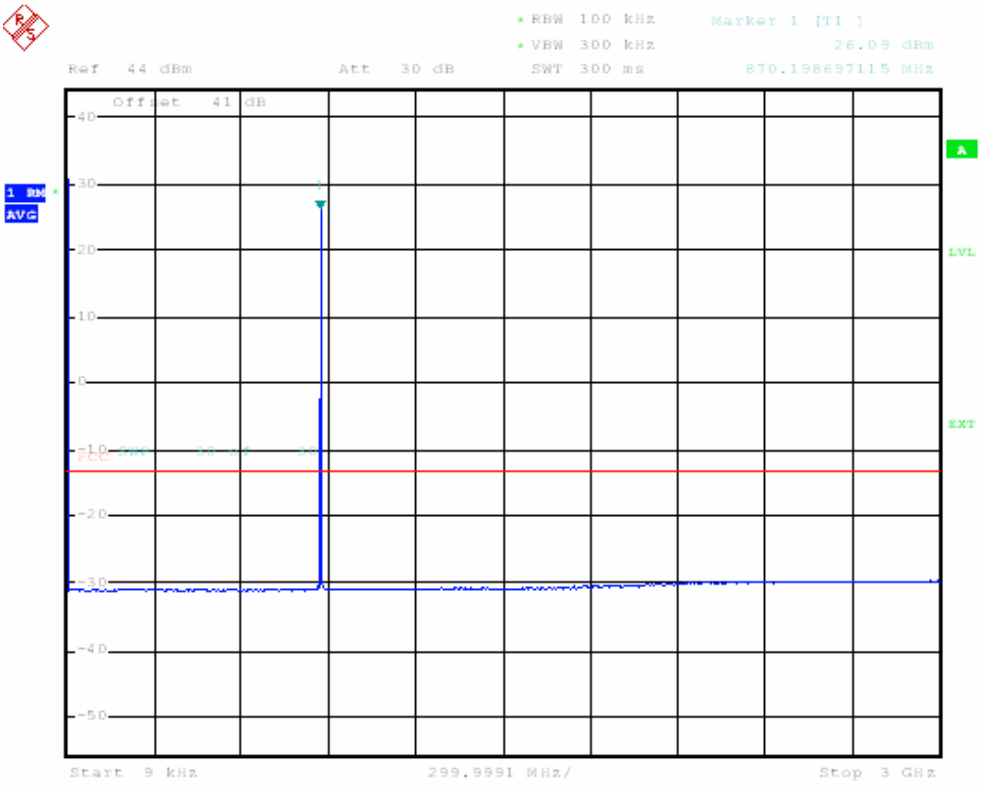
Channel Number:512/553/594

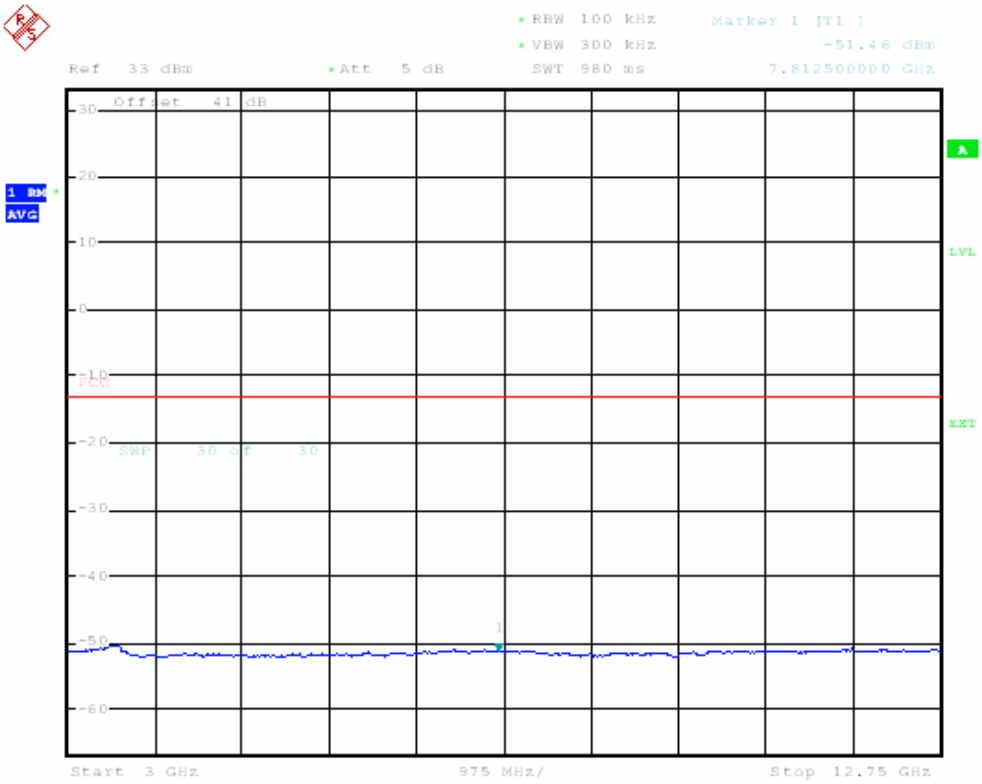



RBW 100 kHz
VBW 300 kHz
SWT 980 ms
Marker 1 [T1]
-41.08 dBm
11.718750000 GHz
Ref 44 dBm
Att 15 dB
Offset 41 dB
1 RM
AVG
A
LVL
EXT
Start 3 GHz
975 MHz/
Stop 12.75 GHz

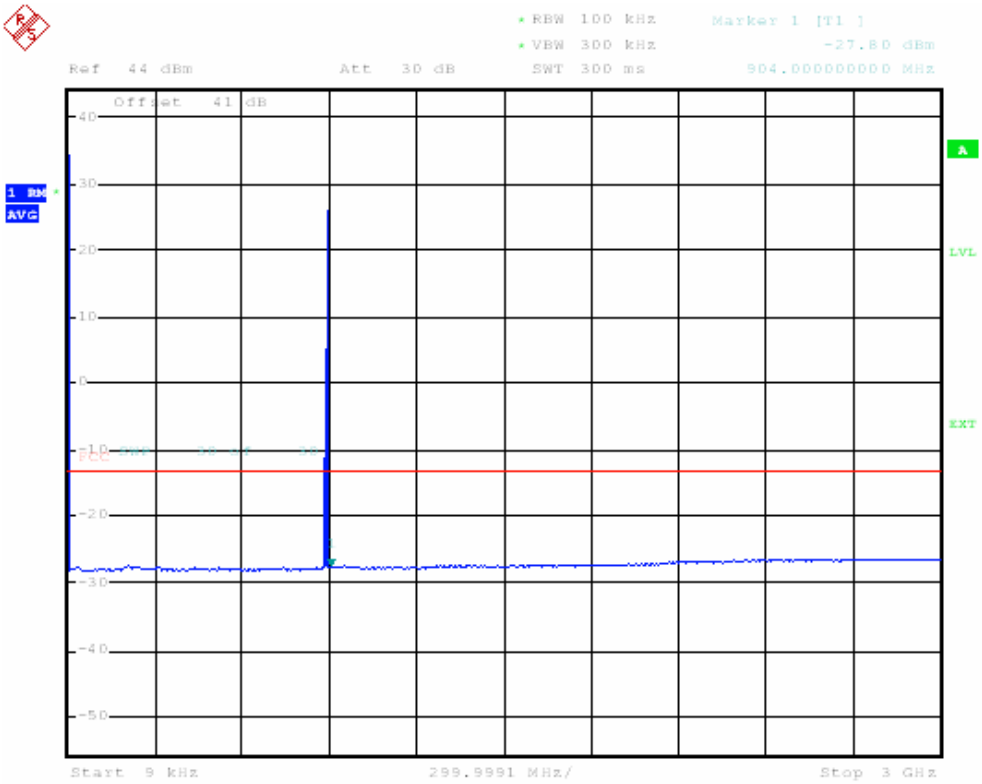
CDMA2000 1X EV-DO

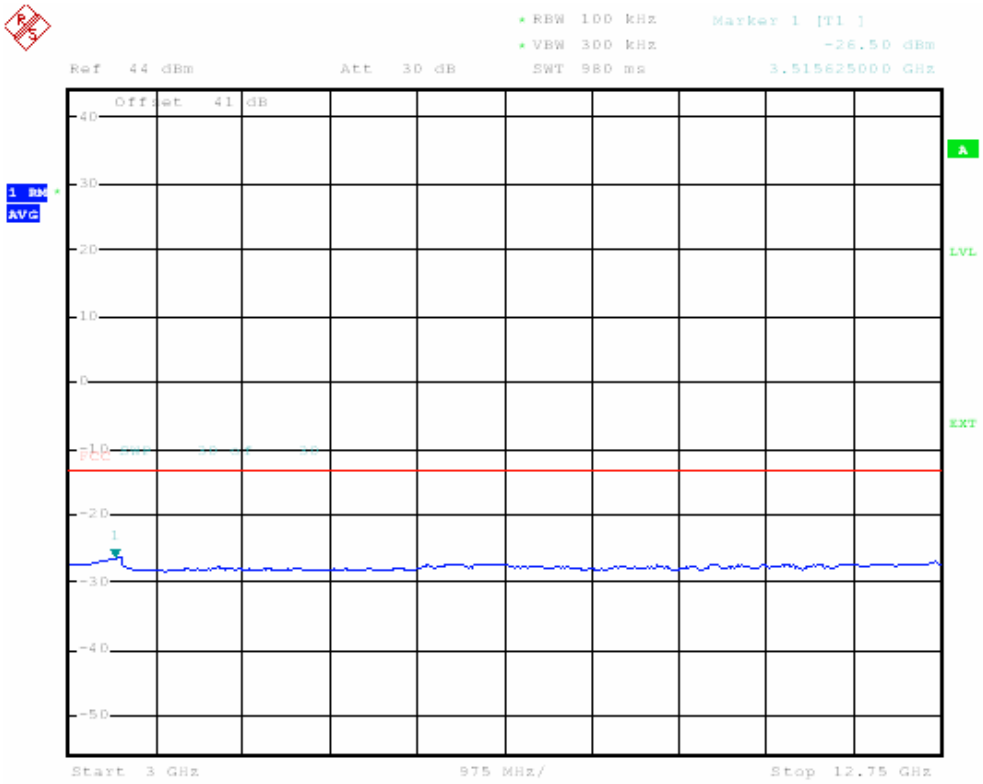
Channel Number:1018




RBW 100 kHz
VBW 300 kHz
SWT 980 ms
Marker 1 [T1]
-51.46 dBm
7.812500000 GHz
Ref 33 dBm
Att 5 dB
Offset 41 dB
1 RM
AVG
A
LVL
EXT
FCC
SWP 30 Sf 30
Start 3 GHz
975 MHz/
Stop 12.75 GHz

Channel Number:594




RBW 100 kHz
VBW 300 kHz
SWT 980 ms
Marker 1 [T1]
-26.50 dBm
3.515625000 GHz
Ref 44 dBm
Att 30 dB
Offset 41 dB
1 RM
AVG
A
LVL
EXT
Start 3 GHz
975 MHz/
Stop 12.75 GHz

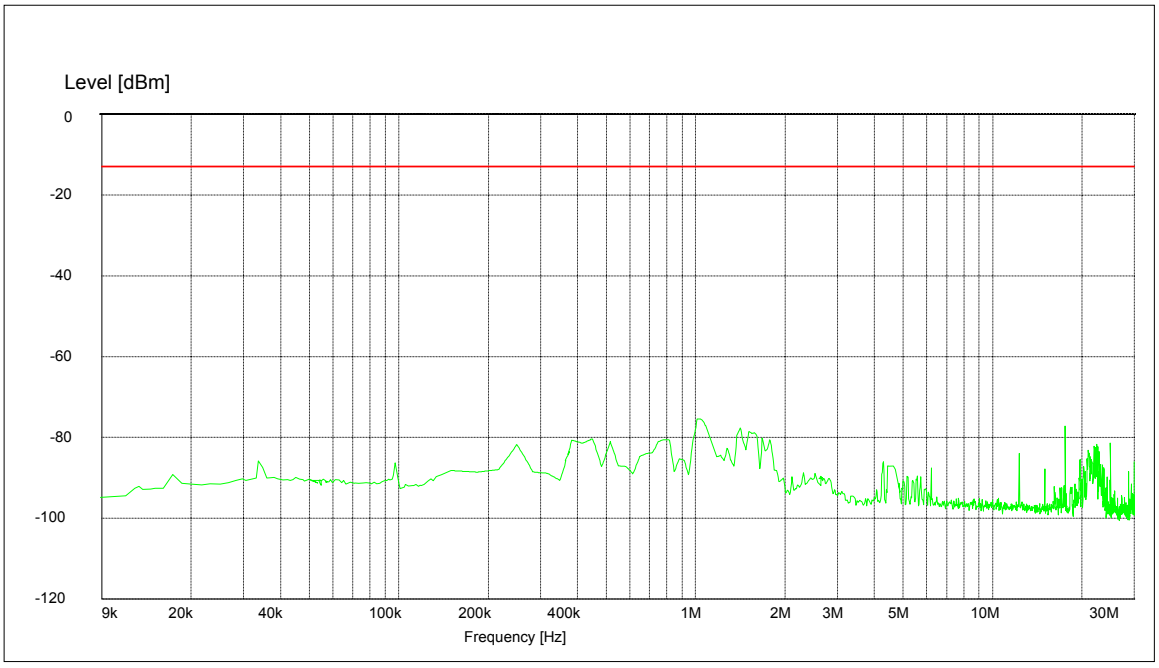
Appendix E

Field Strength of Spurious Radiation

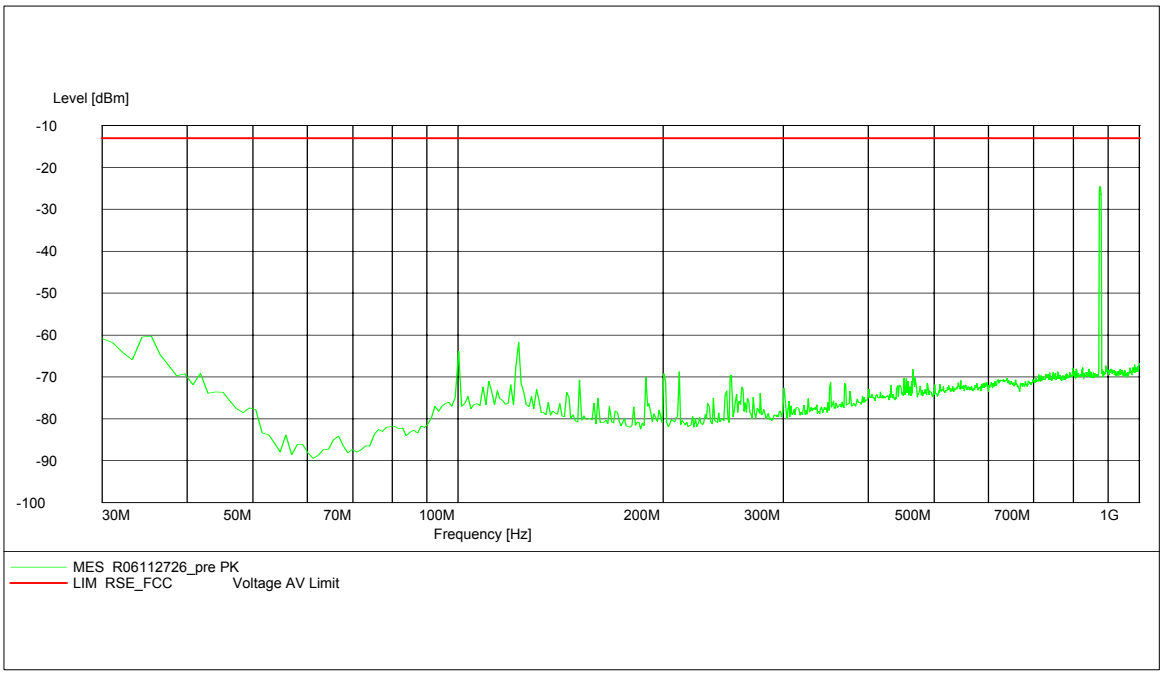
According to FCC Part 2.1053 & 22.917

Measurement Result

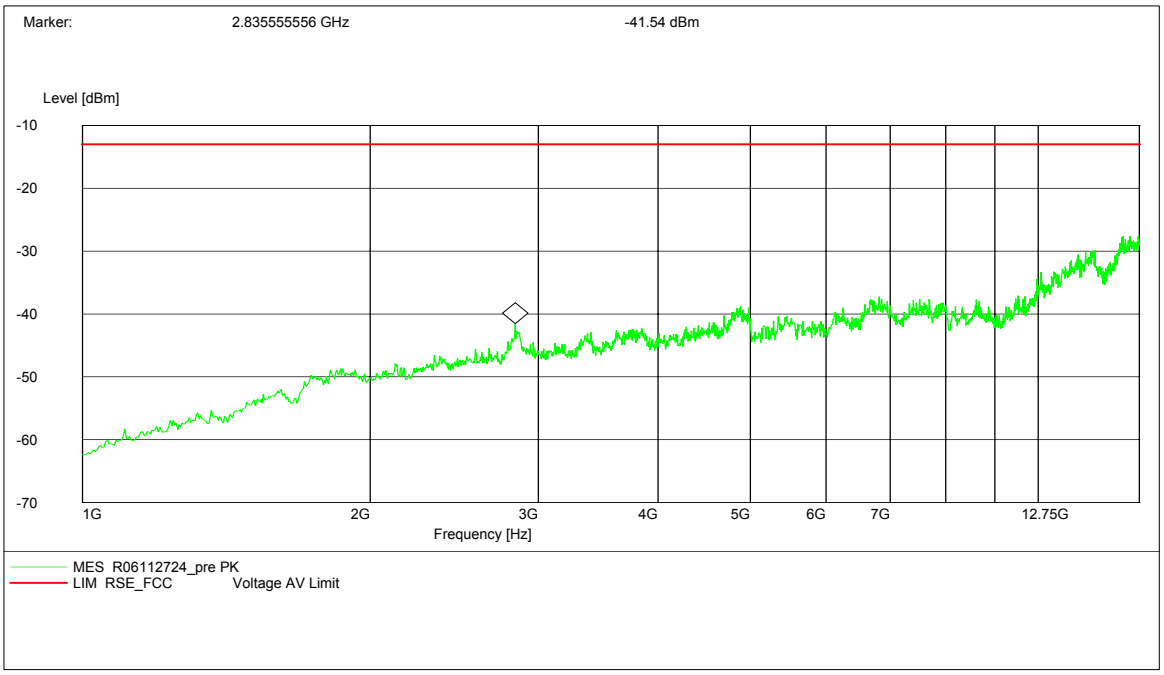
9kHz-30MHz



30MHz-1GHz



1GHz-12.75GHz



Appendix F

Frequency Stability Measurements

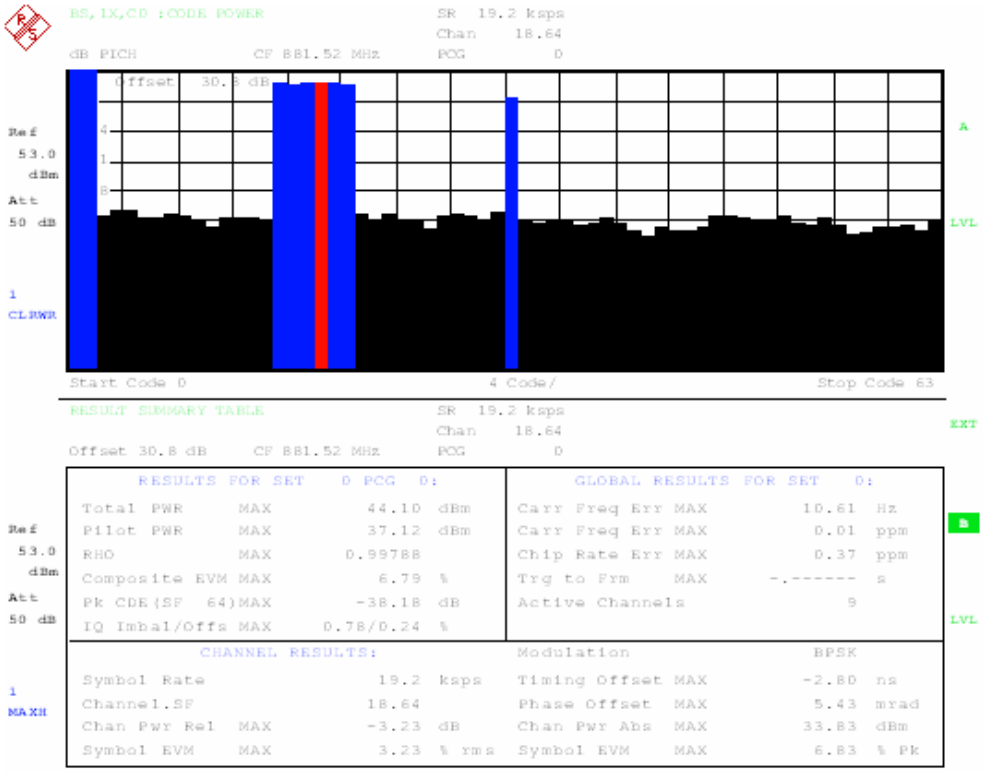
According to CFR 47 (FCC) part 2.1055

1. Frequency Stability versus Temperature

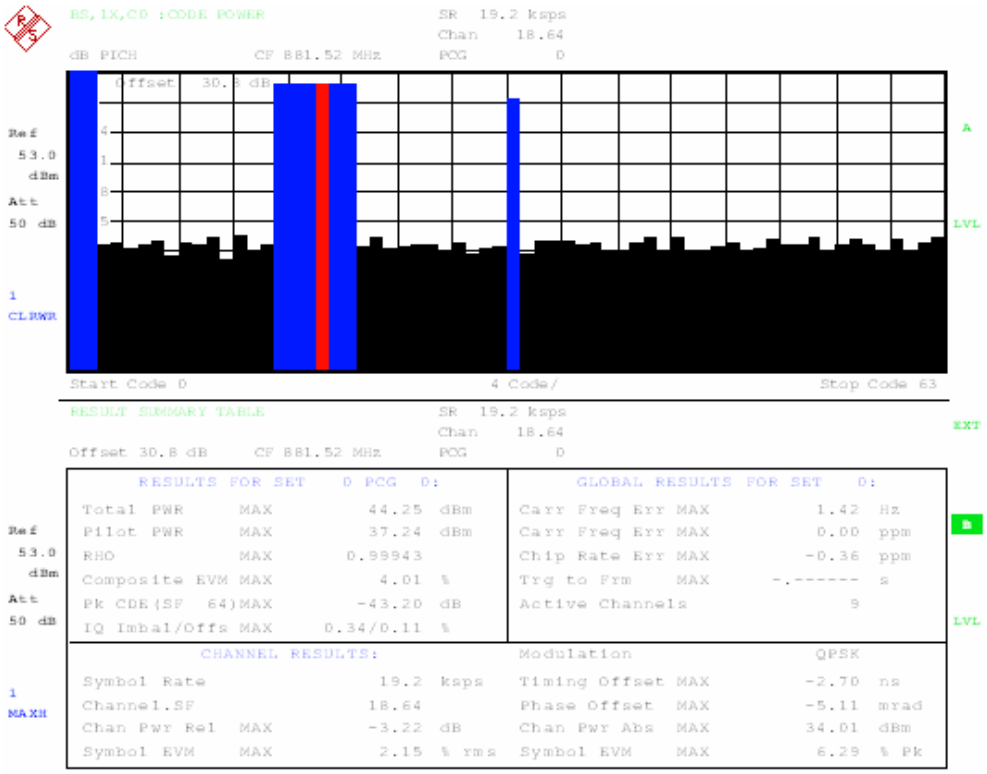
Measurement Result
CDMA2000 1X：
TRX1: Channel No. 384(881.52MHz)

Temperature = - 30℃

RC1:



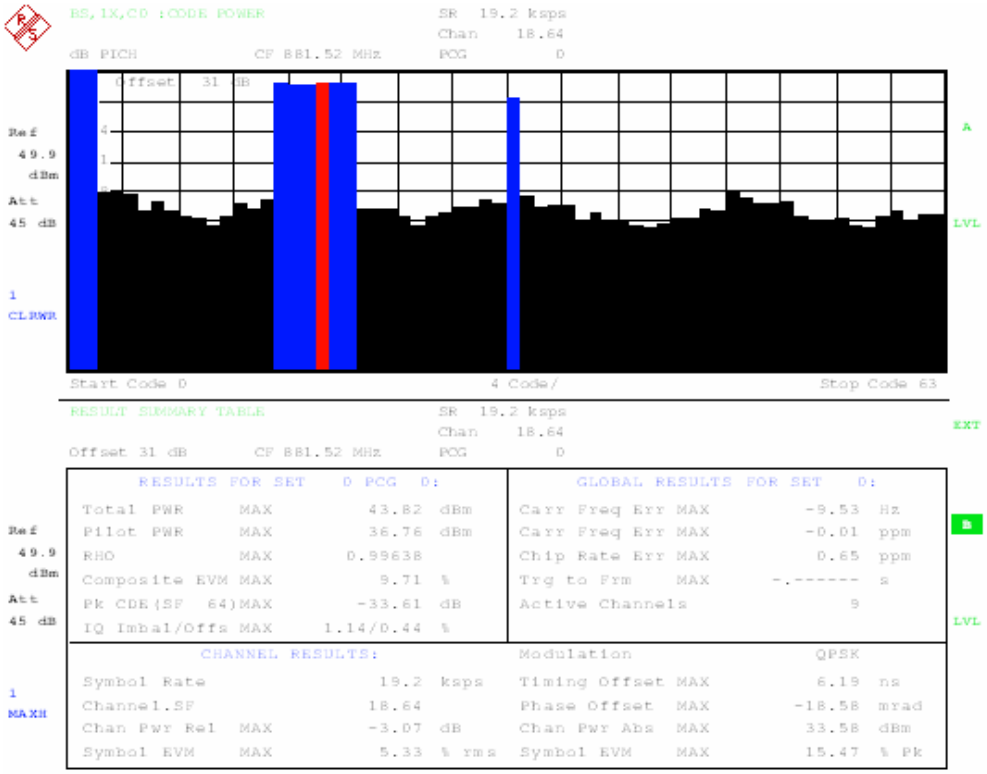
RC3:


BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 30.8 dB
Ref
53.0
dBm
Att
50 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
Offset 30.8 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 44.25 dBm
Pilot PWR MAX 37.24 dBm
RHO MAX 0.99943
Composite EVM MAX 4.01 %
Pk CDE(SF 64)MAX -43.20 dB
IQ Imbal/Offs MAX 0.34/0.11 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX 1.42 Hz
Carr Freq Err MAX 0.00 ppm
Chip Rate Err MAX -0.36 ppm
Trg to Frm MAX -.------ s
Active Channels 9
B
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX -3.22 dB
Symbol EVM MAX 2.15 % rms
Timing Offset MAX -2.70 ns
Phase Offset MAX -5.11 mrad
Chan Pwr Abs MAX 34.01 dBm
Symbol EVM MAX 6.29 % Pk
MAXH

Temperature = - 20℃

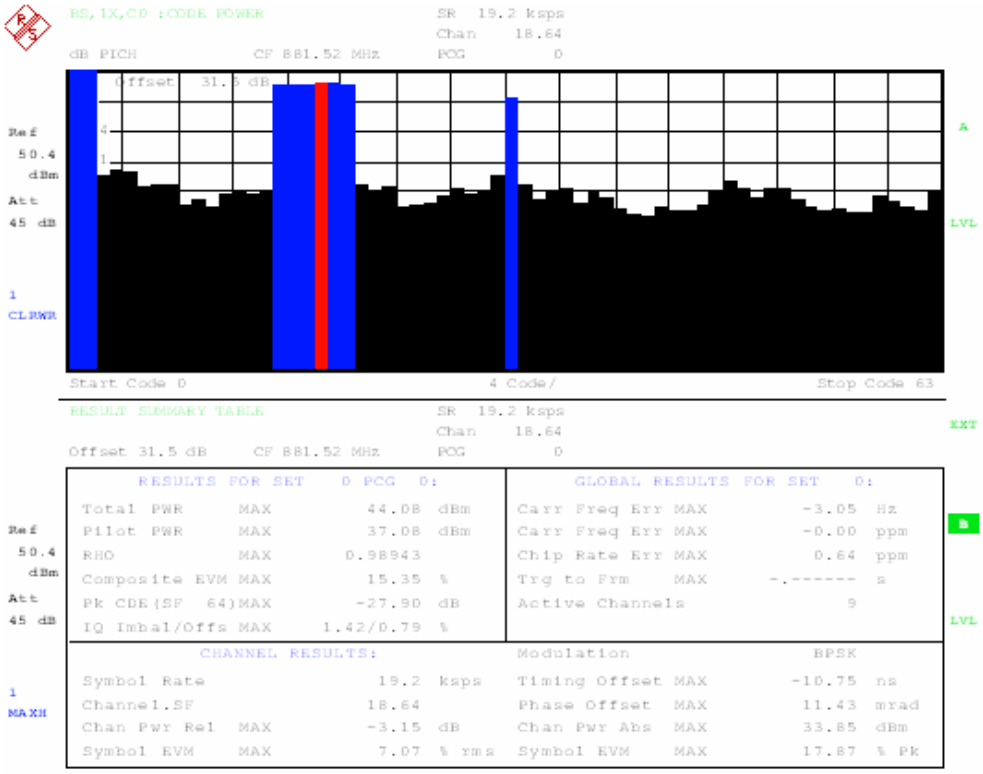
RC1:

RC3:

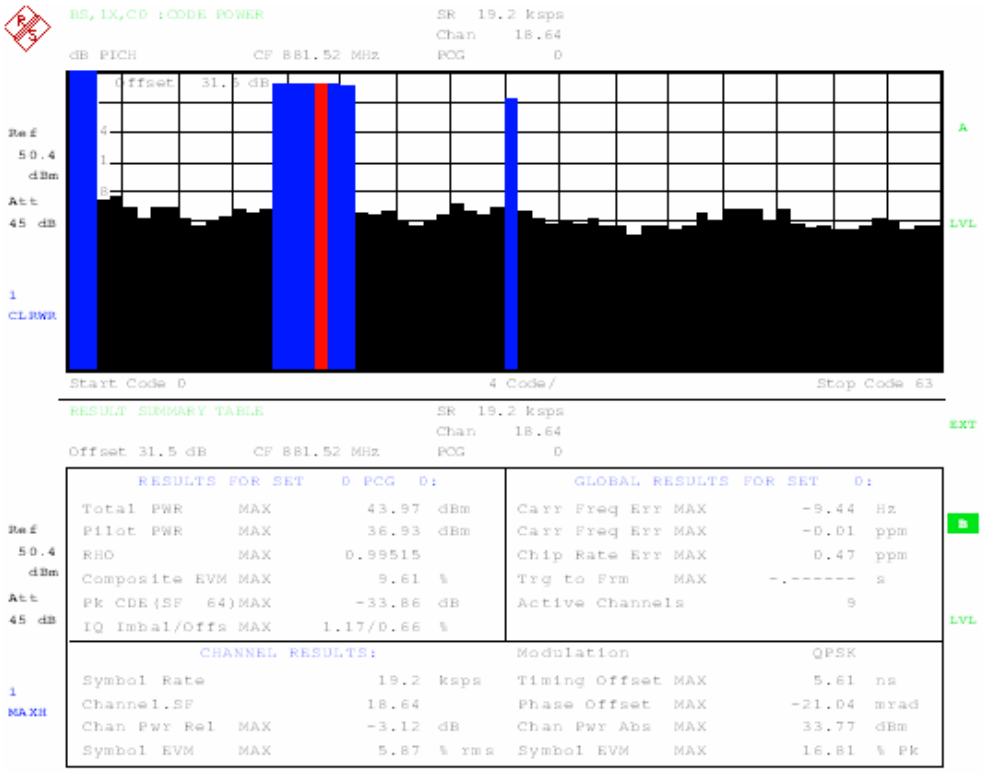

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 31 dB
Ref
49.9
dBm
Att
45 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
Offset 31 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.82 dBm
Pilot PWR MAX 36.76 dBm
RHO MAX 0.99638
Composite EVM MAX 9.71 %
Pk CDE(SF 64)MAX -33.61 dB
IQ Imbal/Offs MAX 1.14/0.44 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX -9.53 Hz
Carr Freq Err MAX -0.01 ppm
Chip Rate Err MAX 0.65 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX -3.07 dB
Symbol EVM MAX 5.33 % rms
Timing Offset MAX 6.19 ns
Phase Offset MAX -18.58 mrad
Chan Pwr Abs MAX 33.58 dBm
Symbol EVM MAX 15.47 % Pk
MAXH

Temperature = - 10℃

RC1:

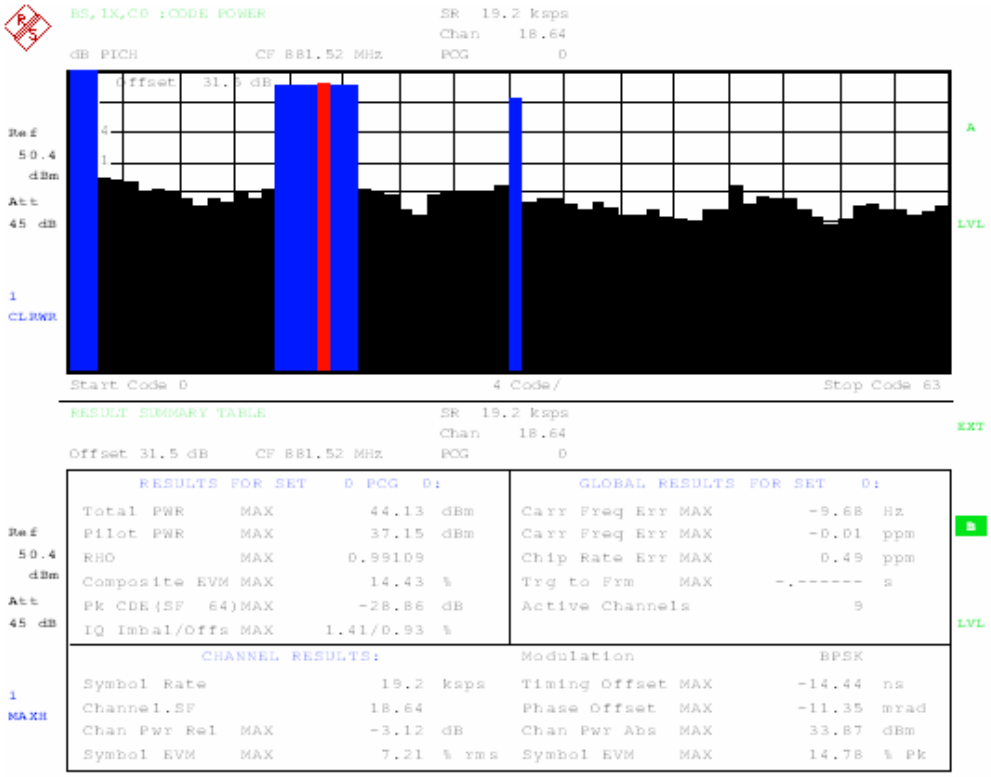


RC3:

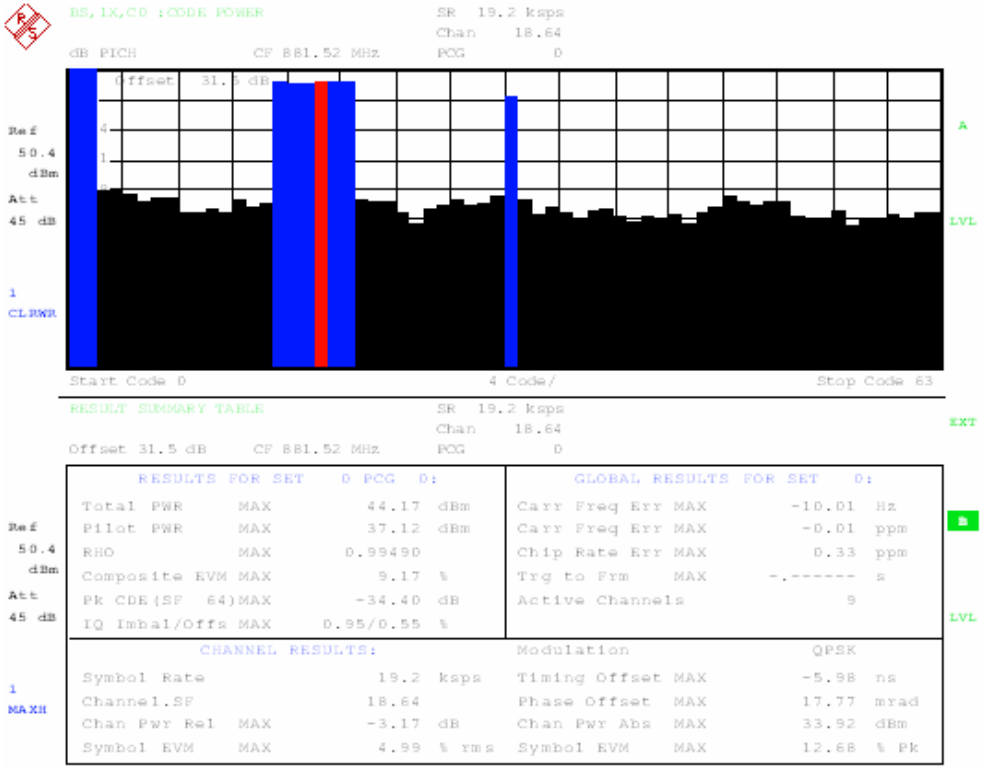

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 31.5 dB
Ref
50.4
dBm
Att
45 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
EXT
Offset 31.5 dB
CF 881.52 MHz
PCG 0
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.97 dBm
Pilot PWR MAX 36.93 dBm
RHO MAX 0.99515
Composite EVM MAX 9.61 %
Pk CDE(SF 64)MAX -33.86 dB
IQ Imbal/Offs MAX 1.17/0.66 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX -9.44 Hz
Carr Freq Err MAX -0.01 ppm
Chip Rate Err MAX 0.47 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX -3.12 dB
Symbol EVM MAX 5.87 % rms
Timing Offset MAX 5.61 ns
Phase Offset MAX -21.04 mrad
Chan Pwr Abs MAX 33.77 dBm
Symbol EVM MAX 16.81 % Pk
MAXH

Temperature = 0℃

RC1:

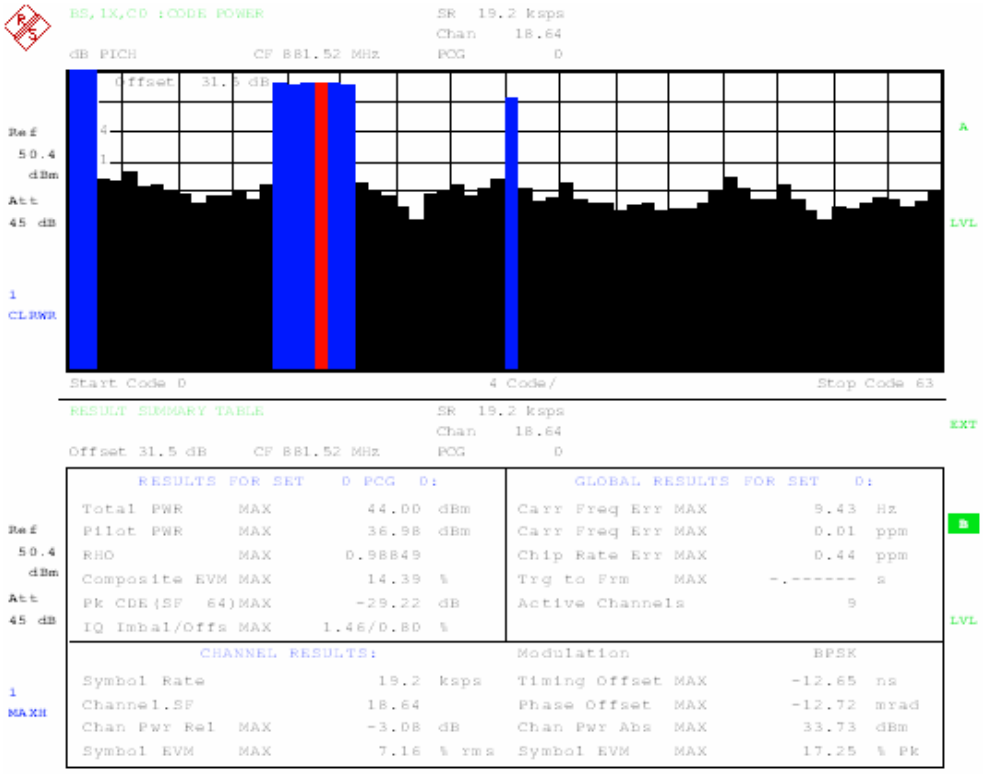


RC3:

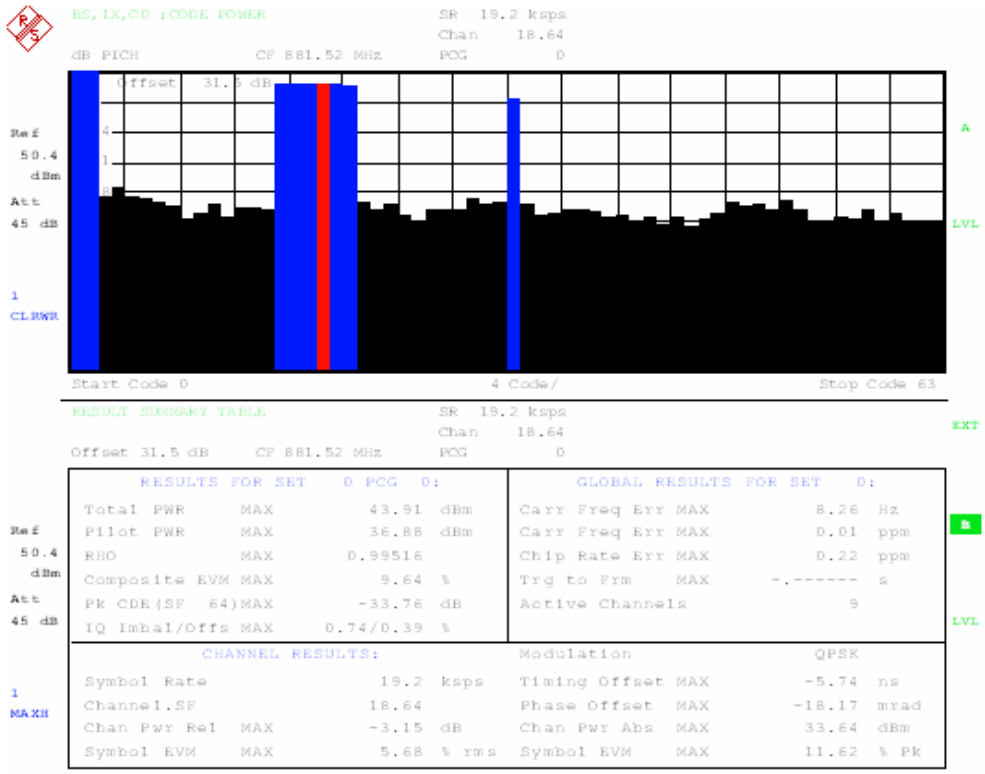

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 31.5 dB
Ref
50.4
dBm
Att
45 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
Offset 31.5 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 44.17 dBm
Pilot PWR MAX 37.12 dBm
RHO MAX 0.99490
Composite EVM MAX 9.17 %
Pk CDE(SF 64)MAX -34.40 dB
IQ Imbal/Offs MAX 0.95/0.55 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX -10.01 Hz
Carr Freq Err MAX -0.01 ppm
Chip Rate Err MAX 0.33 ppm
Trg to Frm MAX -.------ s
Active Channels 9
B
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX -3.17 dB
Symbol EVM MAX 4.99 % rms
Timing Offset MAX -5.98 ns
Phase Offset MAX 17.77 mrad
Chan Pwr Abs MAX 33.92 dBm
Symbol EVM MAX 12.68 % Pk
MAXH

Temperature = 10℃

RC1:

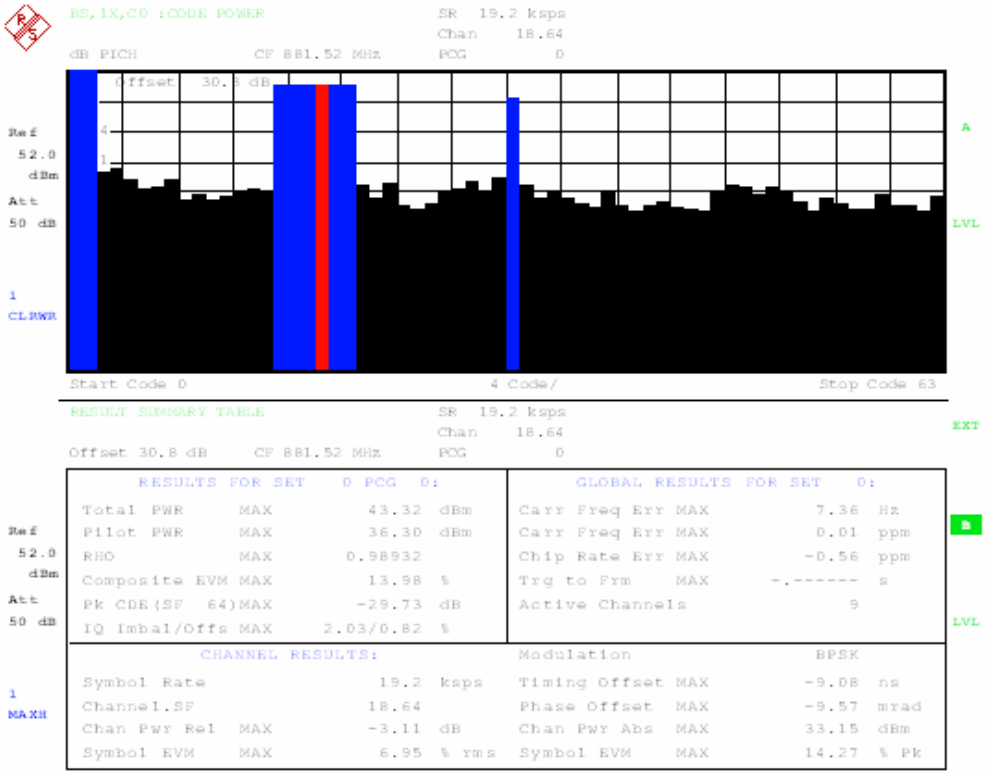


RC3:

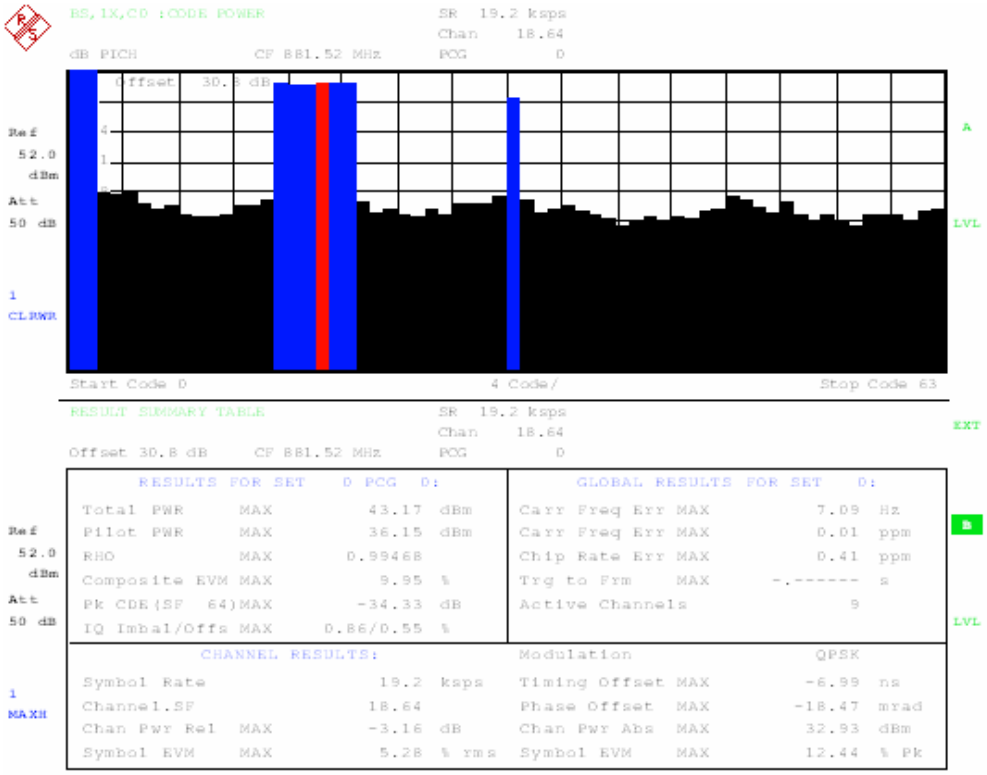

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 31.5 dB
Ref
50.4
dBm
Att
45 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
EXT
Offset 31.5 dB
CF 881.52 MHz
PCG 0
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.91 dBm
Pilot PWR MAX 36.88 dBm
RHO MAX 0.99516
Composite EVM MAX 9.64 %
Pk CDE(SF 64)MAX -33.76 dB
IQ Imbal/Offs MAX 0.74/0.39 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX 8.26 Hz
Carr Freq Err MAX 0.01 ppm
Chip Rate Err MAX 0.22 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX -3.15 dB
Symbol EVM MAX 5.68 % rms
Timing Offset MAX -5.74 ns
Phase Offset MAX -18.17 mrad
Chan Pwr Abs MAX 33.64 dBm
Symbol EVM MAX 11.62 % Pk
MAXH

Temperature = 20℃

RC1:

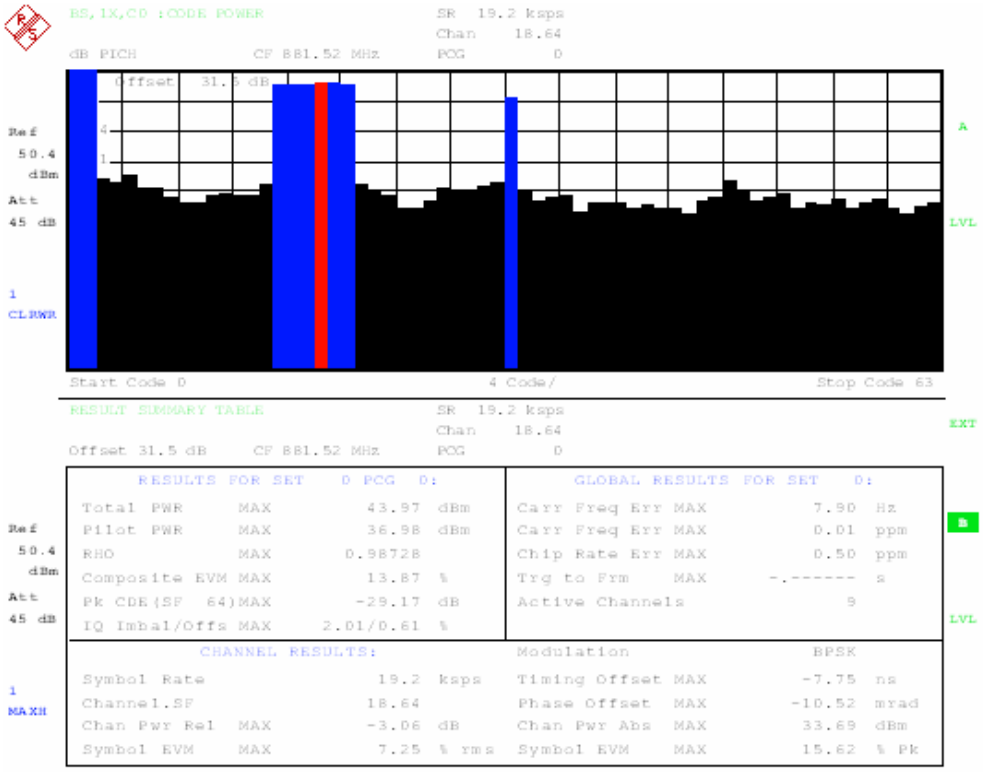


RC3:

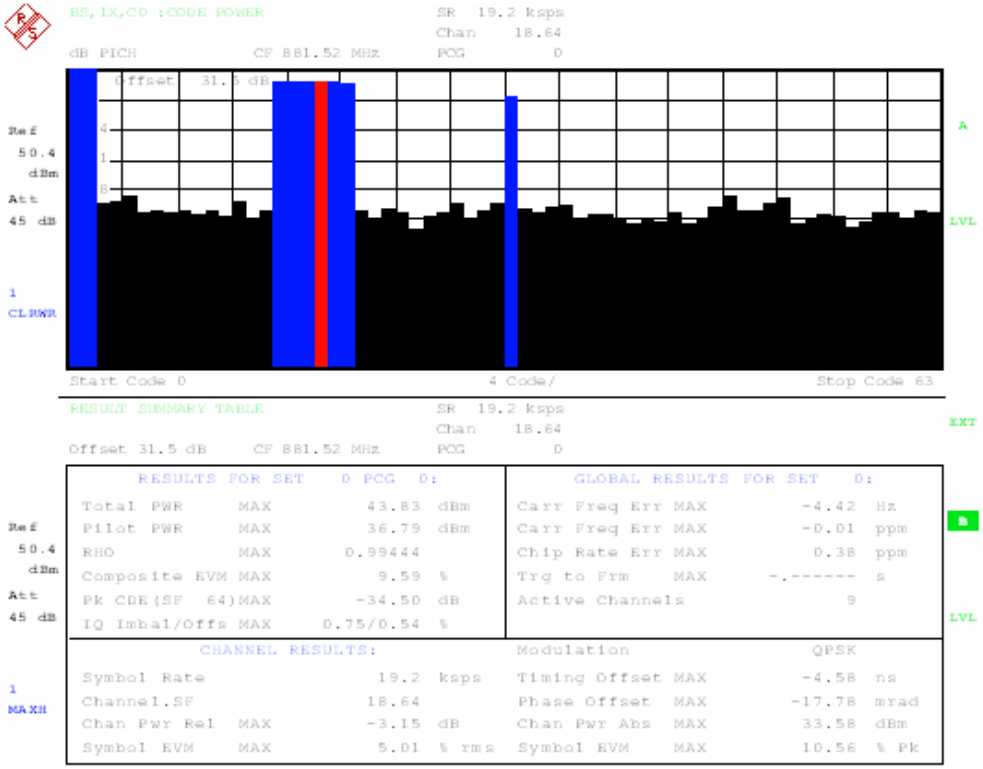

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 30.8 dB
Ref
52.0
dBm
Att
50 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
Offset 30.8 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.17 dBm
Pilot PWR MAX 36.15 dBm
RHO MAX 0.99468
Composite EVM MAX 9.95 %
Pk CDE(SF 64)MAX -34.33 dB
IQ Imbal/Offs MAX 0.86/0.55 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX 7.09 Hz
Carr Freq Err MAX 0.01 ppm
Chip Rate Err MAX 0.41 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX -3.16 dB
Symbol EVM MAX 5.28 % rms
Timing Offset MAX -6.99 ns
Phase Offset MAX -18.47 mrad
Chan Pwr Abs MAX 32.93 dBm
Symbol EVM MAX 12.44 % Pk
B
MAXH

Temperature = 30℃

RC1:

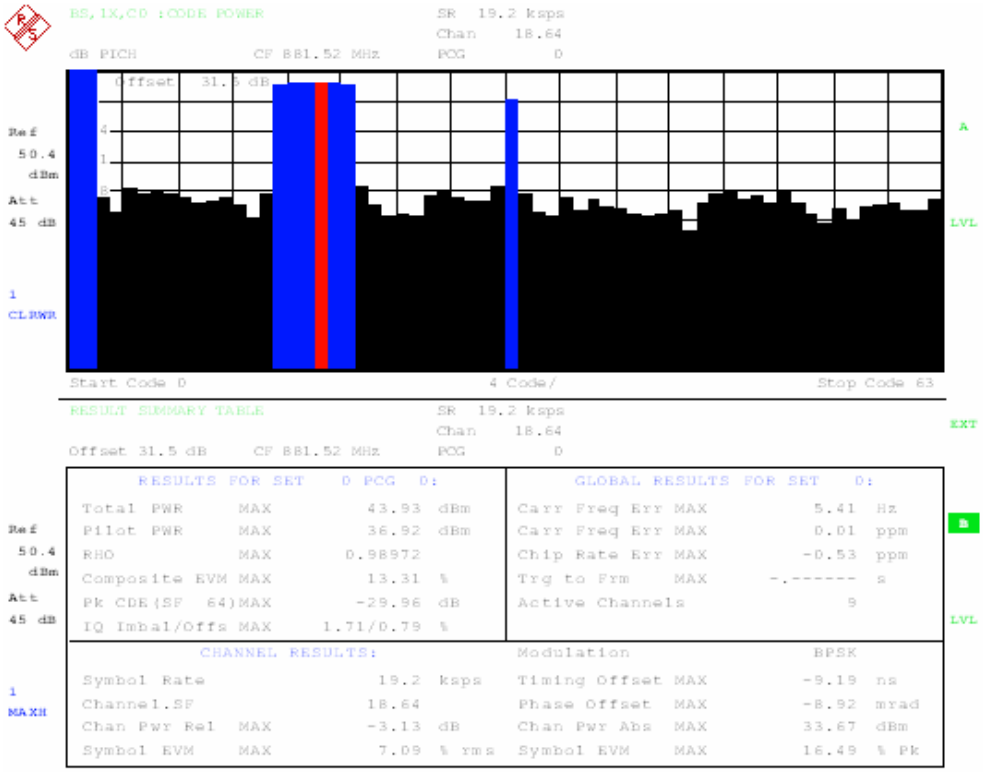


RC3:

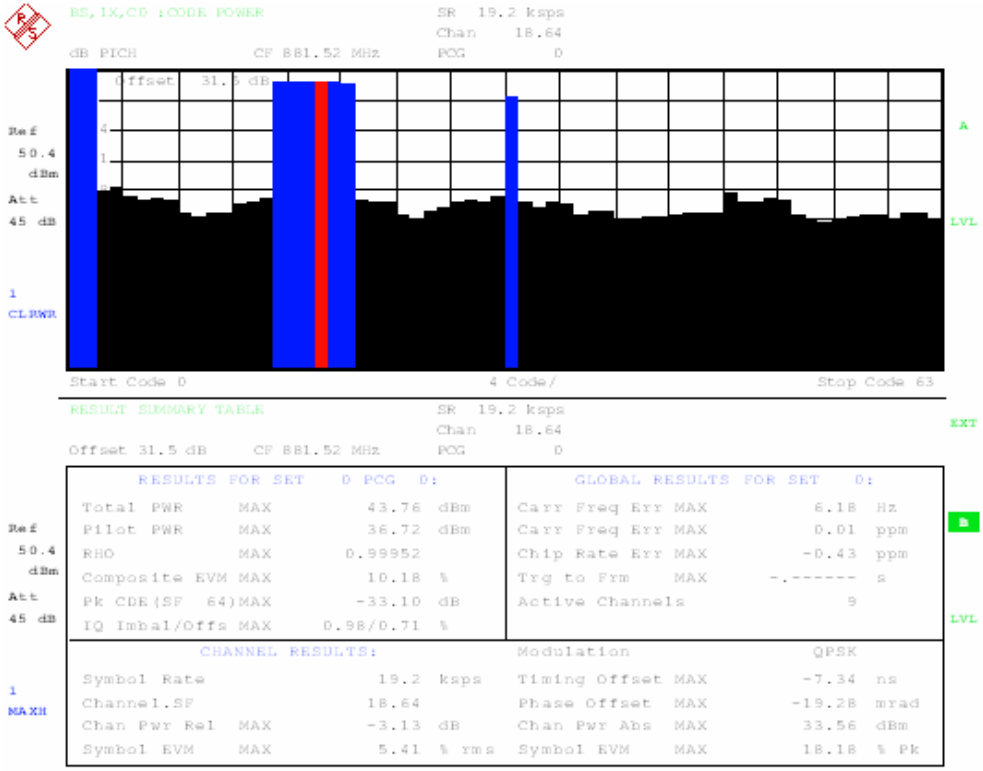

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 31.5 dB
Ref
50.4
dBm
Att
45 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
Offset 31.5 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.83 dBm
Pilot PWR MAX 36.79 dBm
RHO MAX 0.99444
Composite EVM MAX 9.59 %
Pk CDE(SF 64)MAX -34.50 dB
IQ Imbal/Offs MAX 0.75/0.54 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX -4.42 Hz
Carr Freq Err MAX -0.01 ppm
Chip Rate Err MAX 0.38 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel,SF 18.64
Chan Pwr Rel MAX -3.15 dB
Symbol EVM MAX 5.01 % rms
Timing Offset MAX -4.58 ns
Phase Offset MAX -17.78 mrad
Chan Pwr Abs MAX 33.58 dBm
Symbol EVM MAX 10.56 % Pk
MAXH

Temperature = 40℃

RC1:

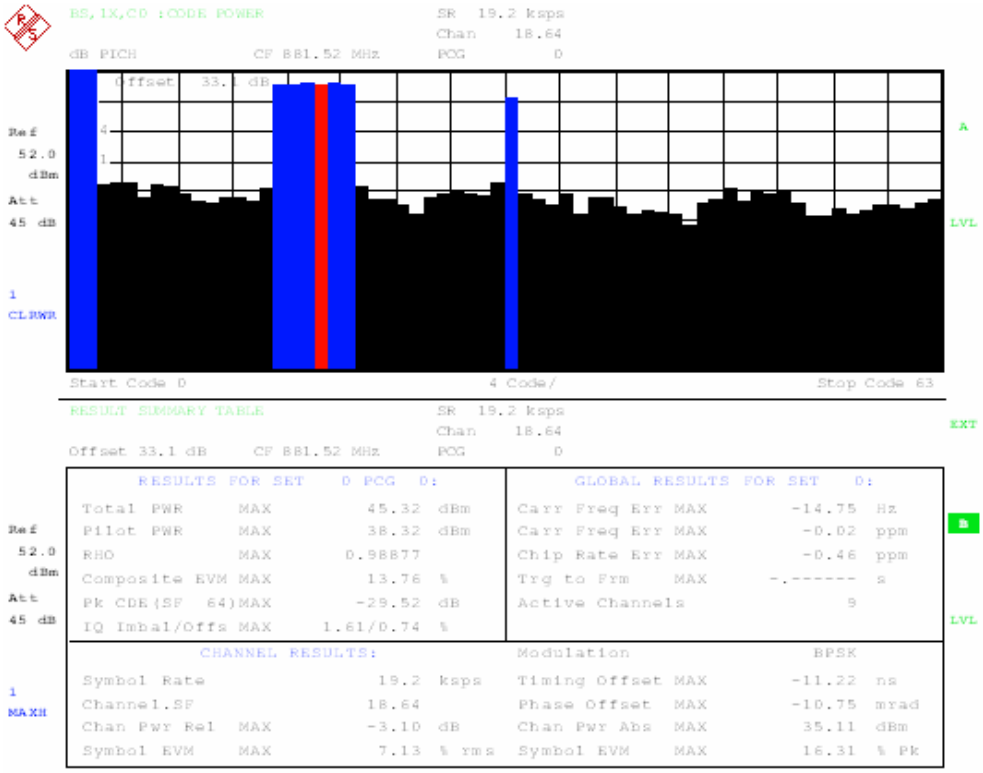


RC3:

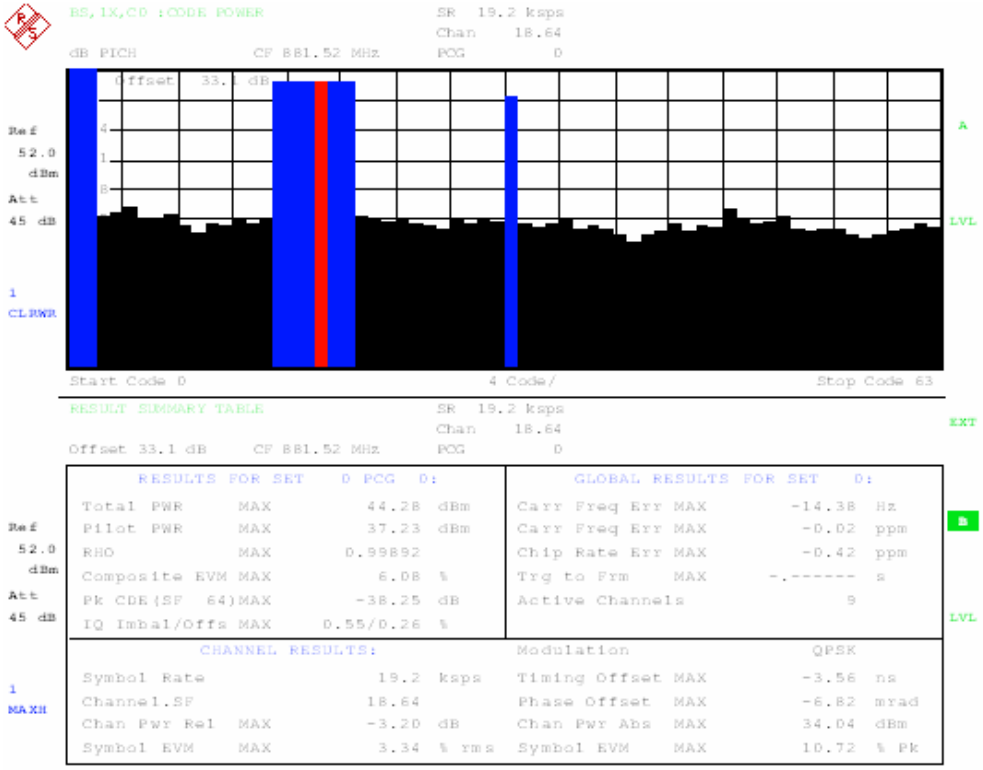

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 31.5 dB
Ref
50.4
dBm
Att
45 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
EXT
Offset 31.5 dB
CF 881.52 MHz
PCG 0
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.76 dBm
Pilot PWR MAX 36.72 dBm
RHO MAX 0.99952
Composite EVM MAX 10.18 %
Pk CDE(SF 64)MAX -33.10 dB
IQ Imbal/Offs MAX 0.98/0.71 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX 6.18 Hz
Carr Freq Err MAX 0.01 ppm
Chip Rate Err MAX -0.43 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX -3.13 dB
Symbol EVM MAX 5.41 % rms
Timing Offset MAX -7.34 ns
Phase Offset MAX -19.28 mrad
Chan Pwr Abs MAX 33.56 dBm
Symbol EVM MAX 18.18 % Pk
MAXH

Temperature = 50℃

RC1:

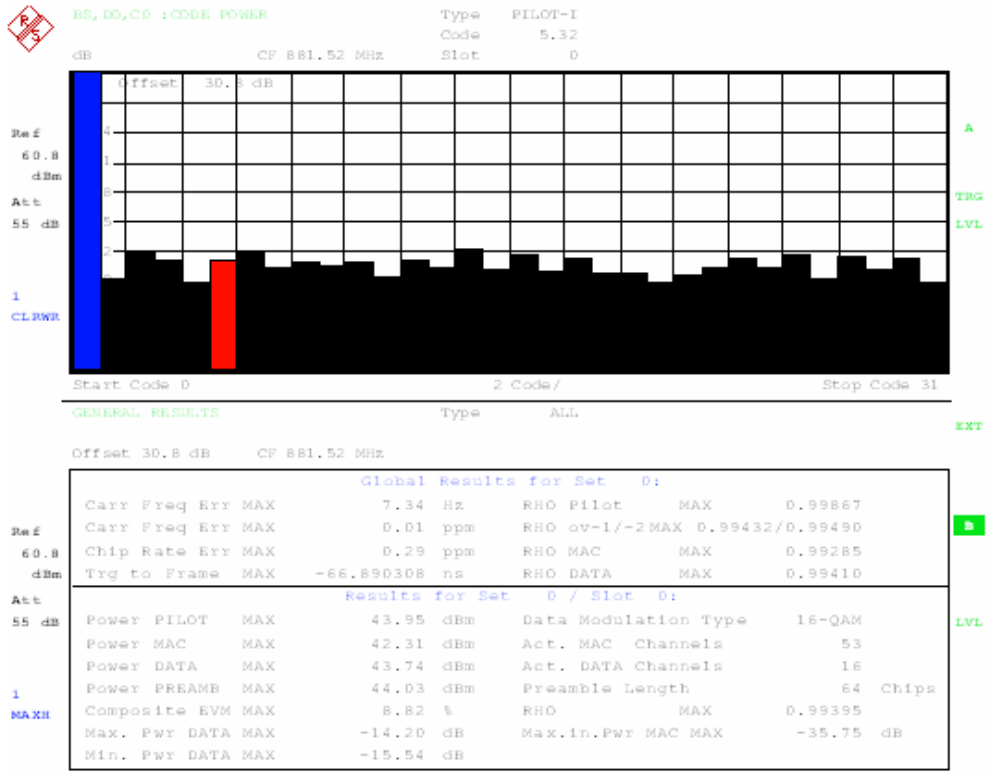


RC3:

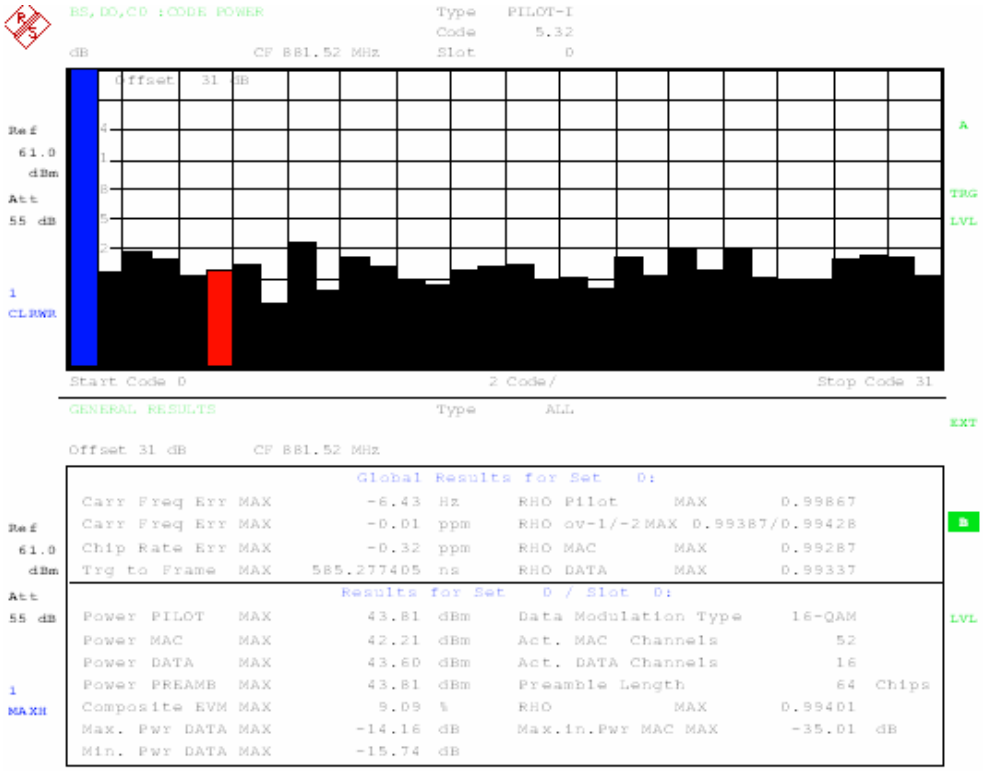

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 33.1 dB
Ref
52.0
dBm
Att
45 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
Offset 33.1 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 44.28 dBm
Pilot PWR MAX 37.23 dBm
RHO MAX 0.99892
Composite EVM MAX 6.08 %
Pk CDE(SF 64)MAX -38.25 dB
IQ Imbal/Offs MAX 0.55/0.26 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX -14.38 Hz
Carr Freq Err MAX -0.02 ppm
Chip Rate Err MAX -0.42 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel,SF 18.64
Chan Pwr Rel MAX -3.20 dB
Symbol EVM MAX 3.34 % rms
Timing Offset MAX -3.56 ns
Phase Offset MAX -6.82 mrad
Chan Pwr Abs MAX 34.04 dBm
Symbol EVM MAX 10.72 % Pk
MAXH

CDMA2000 1X EV-DO:
TRX1: Channel No. 384(881.52MHz)

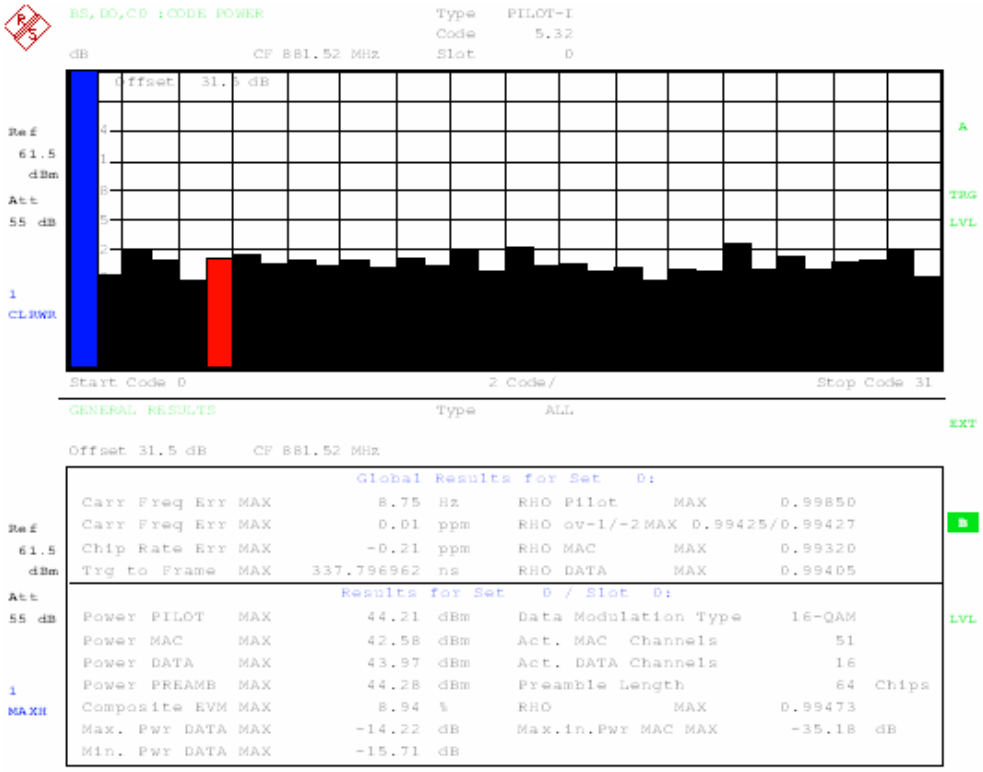
Temperature = - 30℃



Temperature = - 20℃



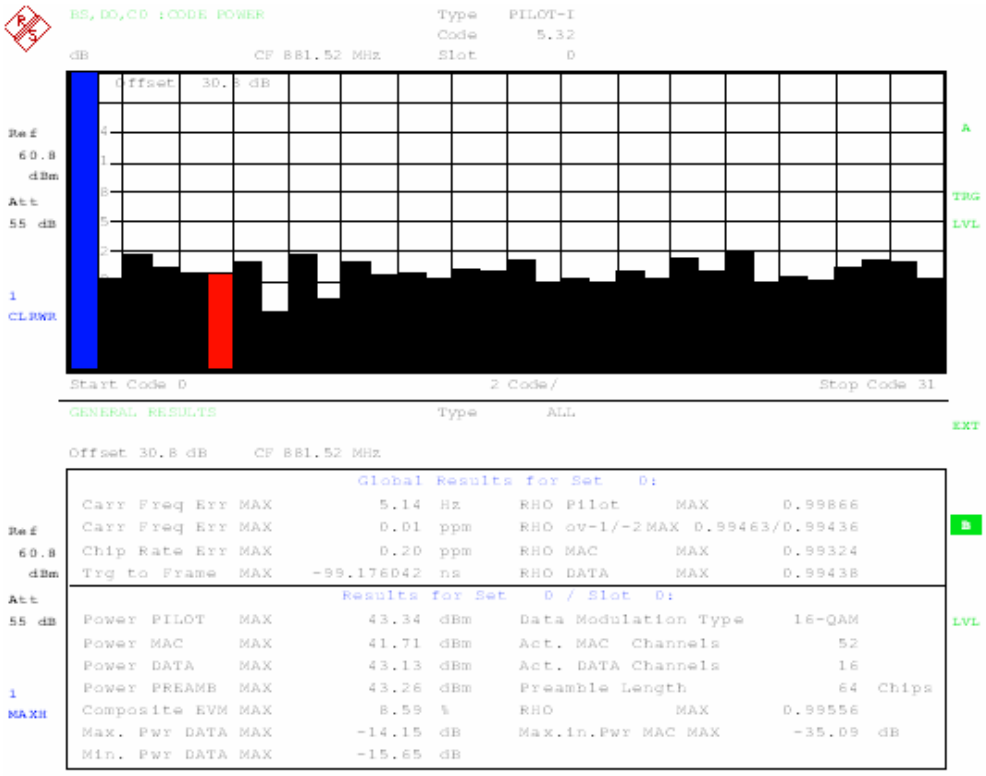
Temperature = - 10℃



Temperature = 0℃

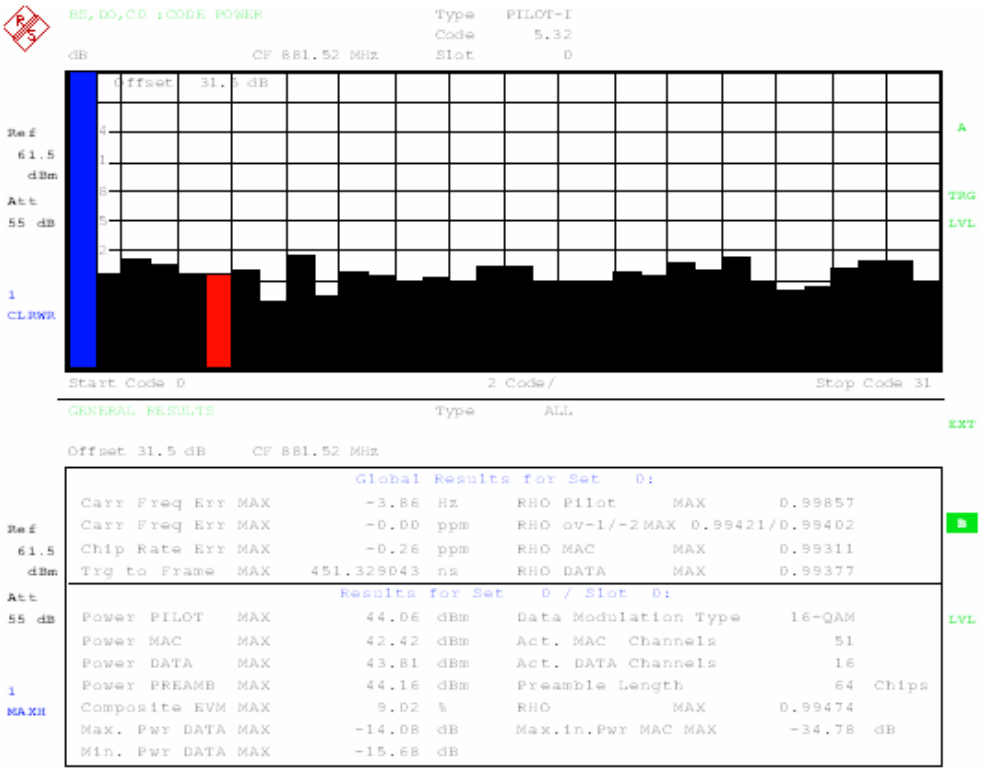
Temperature = 10℃

Temperature = 20℃

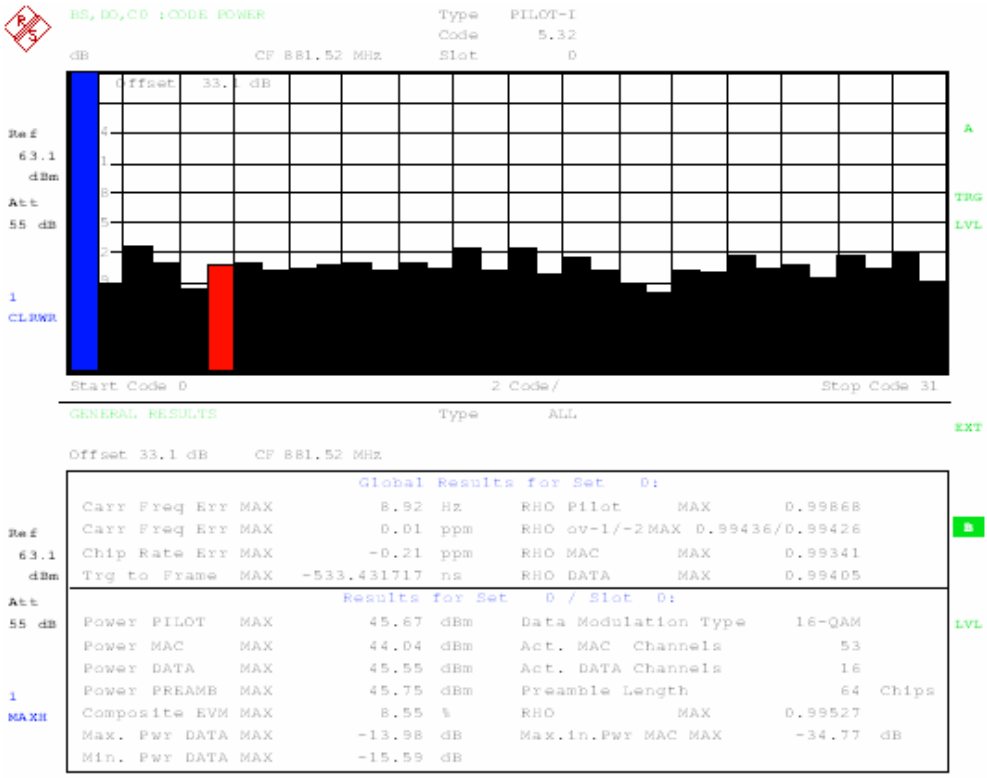


Temperature = 30℃

Temperature = 40℃

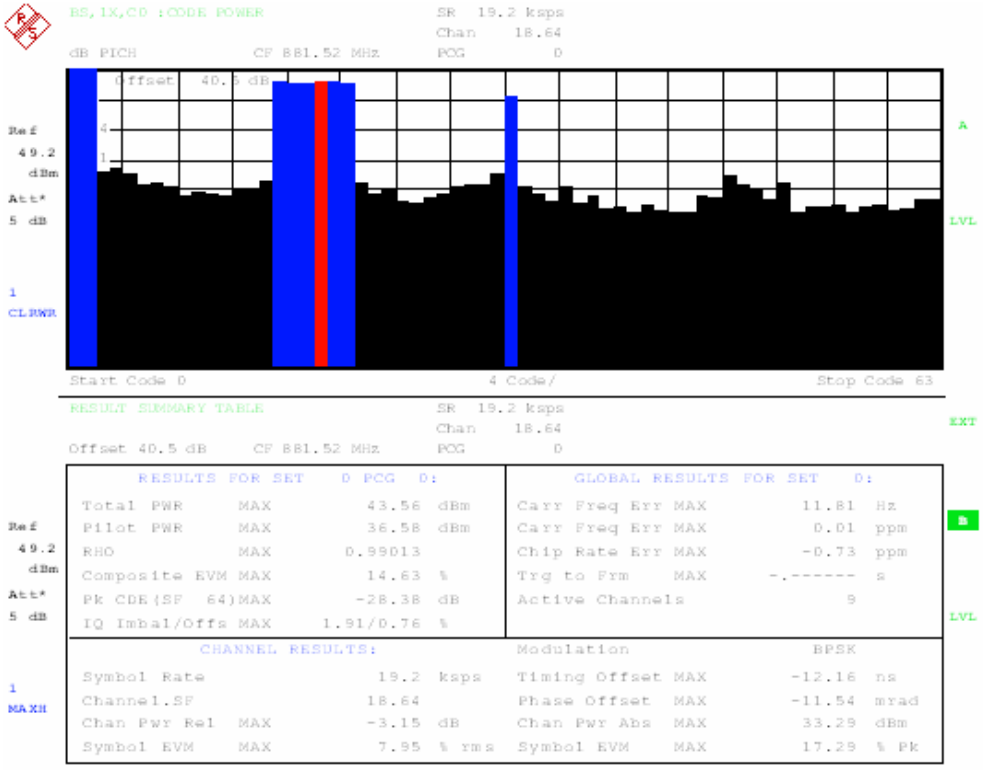


Temperature = 50℃

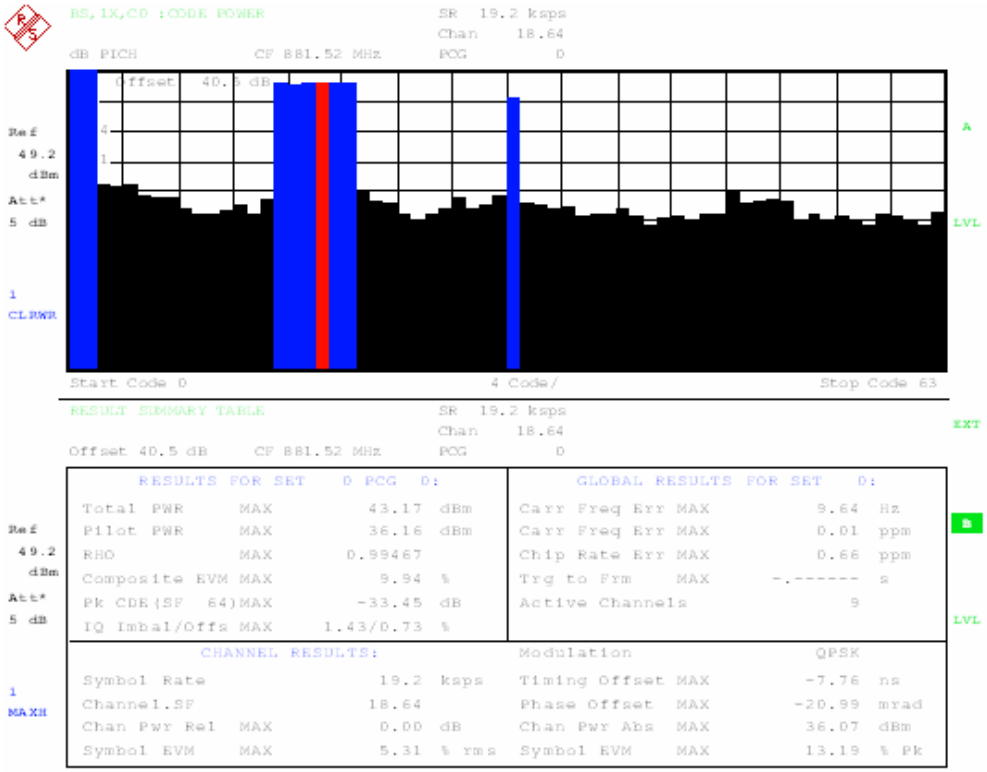


2. Frequency Stability versus Voltages

Measurement Results
CDMA2000 1X:
TRX1: Channel No. 384(881.52MHz)
Voltage=+20.4V
RC1:

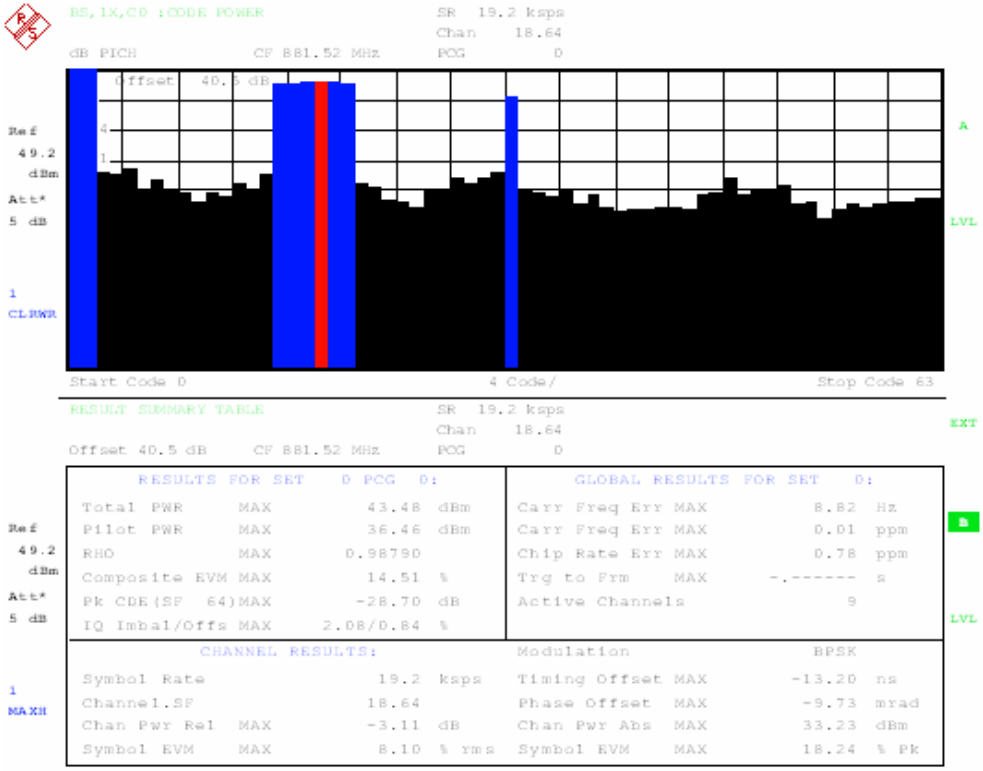


RC3：

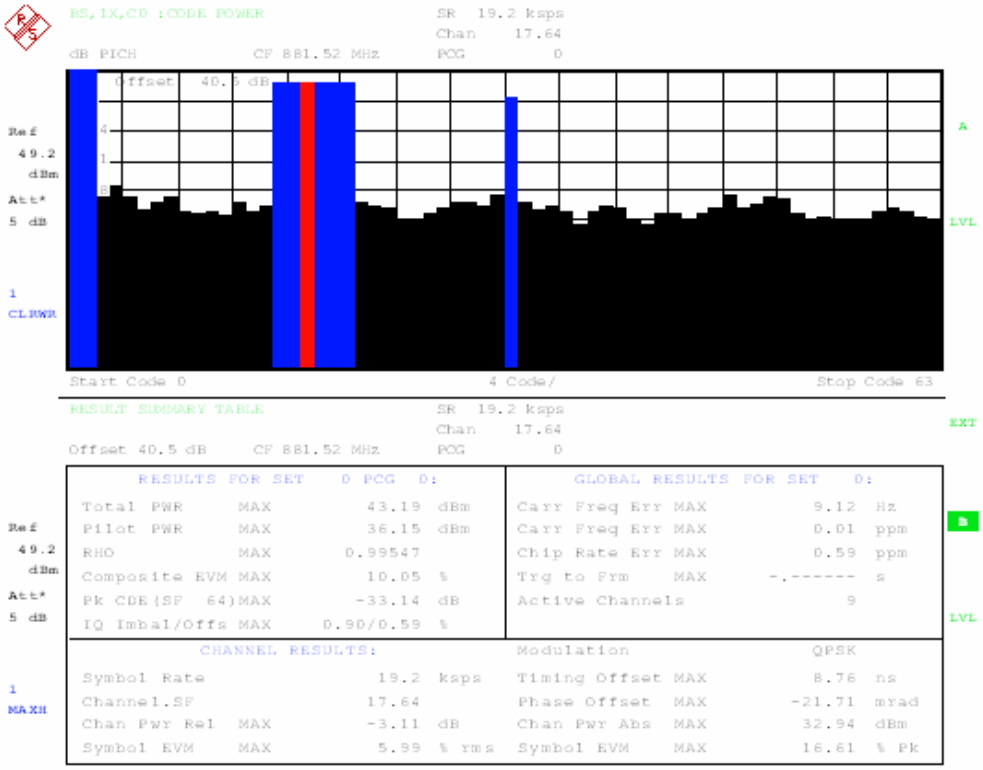

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 40.5 dB
Ref
49.2
dBm
Att*
5 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
Offset 40.5 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.17 dBm
Pilot PWR MAX 36.16 dBm
RHO MAX 0.99467
Composite EVM MAX 9.94 %
Pk CDE(SF 64)MAX -33.45 dB
IQ Imbal/Offs MAX 1.43/0.73 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX 9.64 Hz
Carr Freq Err MAX 0.01 ppm
Chip Rate Err MAX 0.66 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX 0.00 dB
Symbol EVM MAX 5.31 % rms
Timing Offset MAX -7.76 ns
Phase Offset MAX -20.99 mrad
Chan Pwr Abs MAX 36.07 dBm
Symbol EVM MAX 13.19 % Pk
MAXH

Voltage=+24V

RC1：

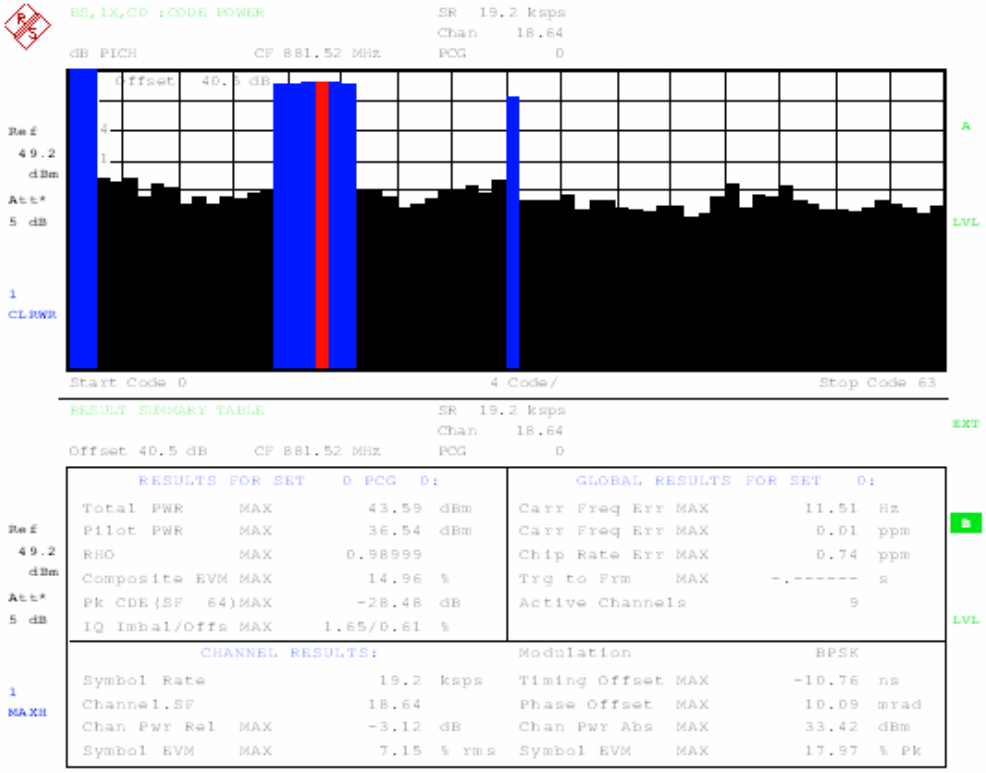


RC3：

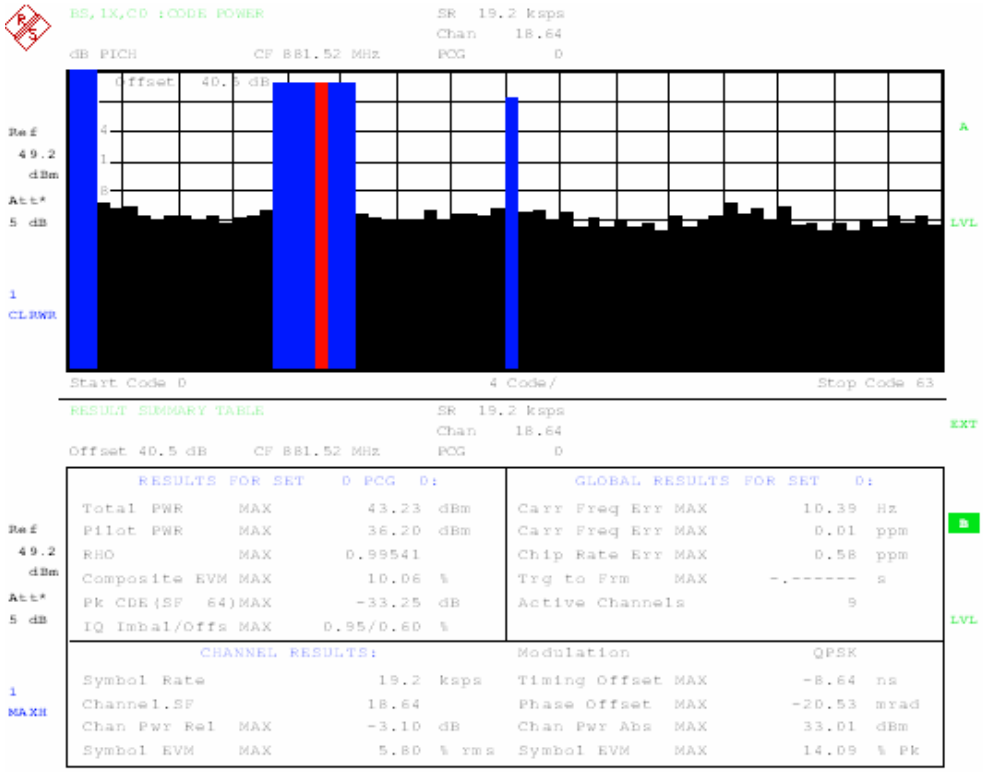

BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 17.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 40.2 dB
Ref
49.2
dBm
Att*
5 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 17.64
Offset 40.5 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.19 dBm
Pilot PWR MAX 36.15 dBm
RHO MAX 0.99547
Composite EVM MAX 10.05 %
Pk CDE(SF 64)MAX -33.14 dB
IQ Imbal/Offs MAX 0.90/0.59 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX 9.12 Hz
Carr Freq Err MAX 0.01 ppm
Chip Rate Err MAX 0.59 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 17.64
Chan Pwr Rel MAX -3.11 dB
Symbol EVM MAX 5.99 % rms
Timing Offset MAX 8.76 ns
Phase Offset MAX -21.71 mrad
Chan Pwr Abs MAX 32.94 dBm
Symbol EVM MAX 16.61 % Pk
MAXH

Voltage= +27.6V

RC1：



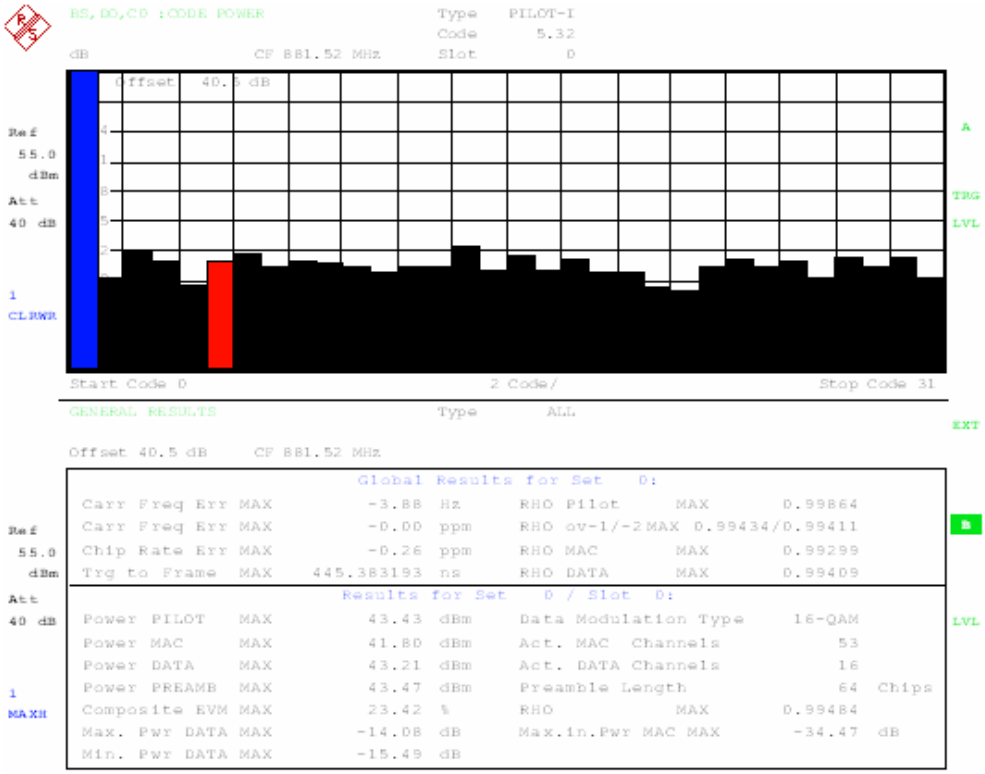
RC3：


BS,1X,CD :CODE POWER
SR 19.2 ksps
Chan 18.64
dB PICH
CF 881.52 MHz
PCG 0
Offset 40.5 dB
Ref
49.2
dBm
Att*
5 dB
1
CLRWR
A
LVL
Start Code 0
4 Code/
Stop Code 63
RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 18.64
Offset 40.5 dB
CF 881.52 MHz
PCG 0
EXT
RESULTS FOR SET 0 PCG 0:
Total PWR MAX 43.23 dBm
Pilot PWR MAX 36.20 dBm
RHO MAX 0.99541
Composite EVM MAX 10.06 %
Pk CDE(SF 64)MAX -33.25 dB
IQ Imbal/Offs MAX 0.95/0.60 %
GLOBAL RESULTS FOR SET 0:
Carr Freq Err MAX 10.39 Hz
Carr Freq Err MAX 0.01 ppm
Chip Rate Err MAX 0.58 ppm
Trg to Frm MAX -.------ s
Active Channels 9
CHANNEL RESULTS:
Modulation QPSK
Symbol Rate 19.2 ksps
Channel.SF 18.64
Chan Pwr Rel MAX -3.10 dB
Symbol EVM MAX 5.80 % rms
Timing Offset MAX -8.64 ns
Phase Offset MAX -20.53 mrad
Chan Pwr Abs MAX 33.01 dBm
Symbol EVM MAX 14.09 % Pk
MAXH

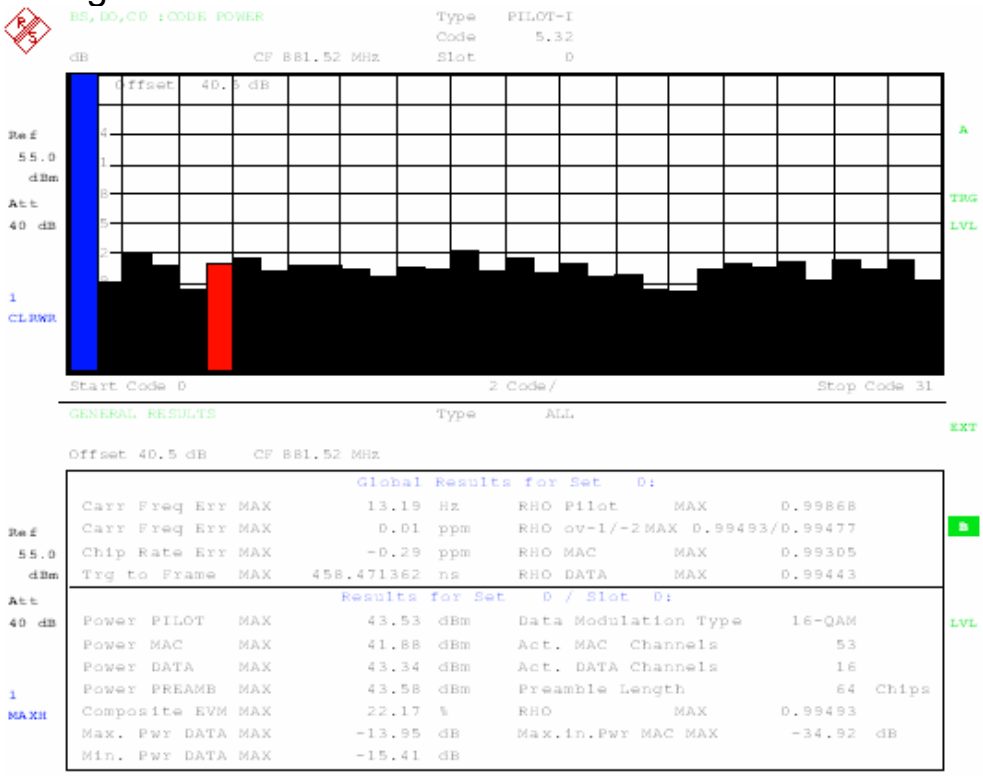
CDMA2000 1X EV-DO:

TRX1: Channel No. 384(881.52MHz)

Voltage=+20.4V



Voltage= +24V


BS,CO,CD :CODE POWER
Type PILOT-I
Code 5.32
Slot 0
dB
CF 881.52 MHz
Offset 40.5 dB
Ref
55.0
dBm
Att
40 dB
1
CLRWR
A
TRG
LVL
Start Code 0
2 Code/
Stop Code 31
GENERAL RESULTS
Type ALL
EXT
Offset 40.5 dB
CF 881.52 MHz
Global Results for Set 0:
Carr Freq Err MAX 13.19 Hz
RHO Pilot MAX 0.99868
Carr Freq Err MAX 0.01 ppm
RHO ov-1/-2MAX 0.99493/0.99477
Chip Rate Err MAX -0.29 ppm
RHO MAC MAX 0.99305
Trg to Frame MAX 458.471362 ns
RHO DATA MAX 0.99443
Results for Set 0 / Slot 0:
Power PILOT MAX 43.53 dBm
Data Modulation Type 16-QAM
Power MAC MAX 41.88 dBm
Act. MAC Channels 53
Power DATA MAX 43.34 dBm
Act. DATA Channels 16
Power PREAMB MAX 43.58 dBm
Preamble Length 64 Chips
Composite EVM MAX 22.17 %
RHO MAX 0.99493
Max. Pwr DATA MAX -13.95 dB
Max.in.Pwr MAC MAX -34.92 dB
Min. Pwr DATA MAX -15.41 dB
B
LVL
MAXH

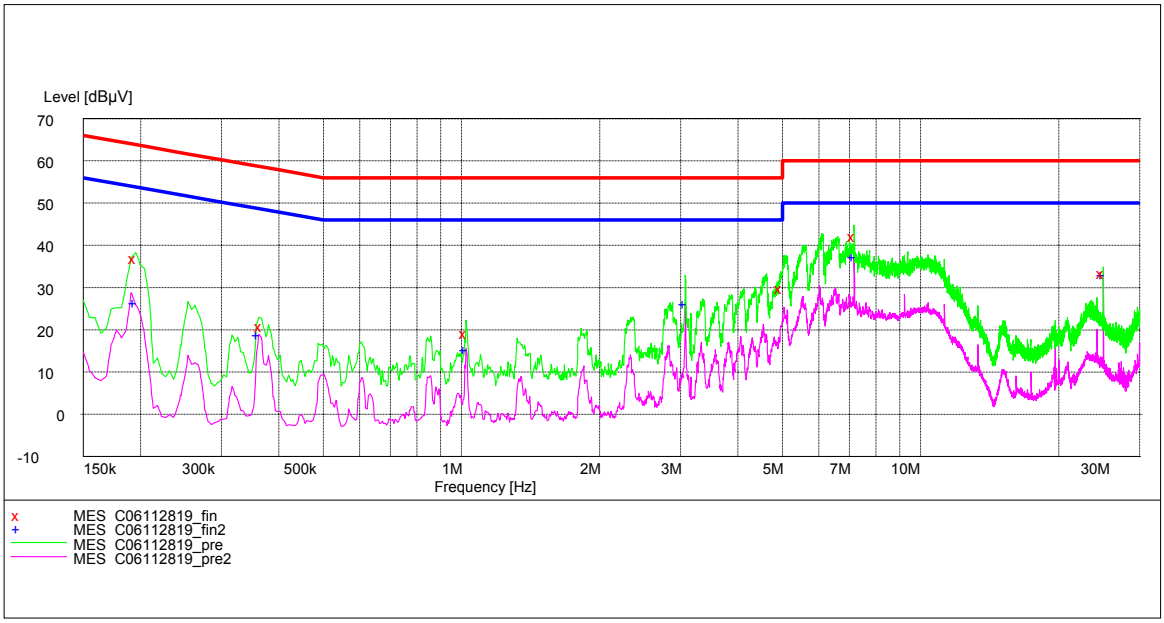
Voltage=+27.6V

Appendix G

Conducted Emission at Power Port

According to CFR 47 (FCC) part 15.107

Measurement result



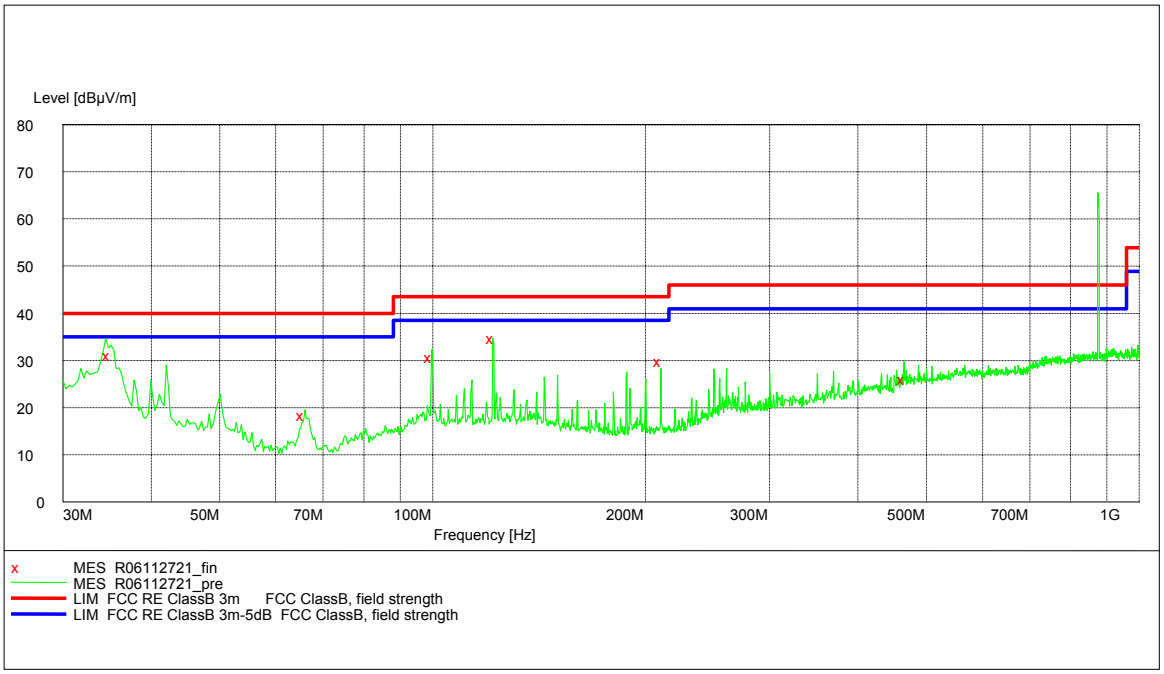
Appendix H

Radiated Emission of Enclosure in Idle Mode

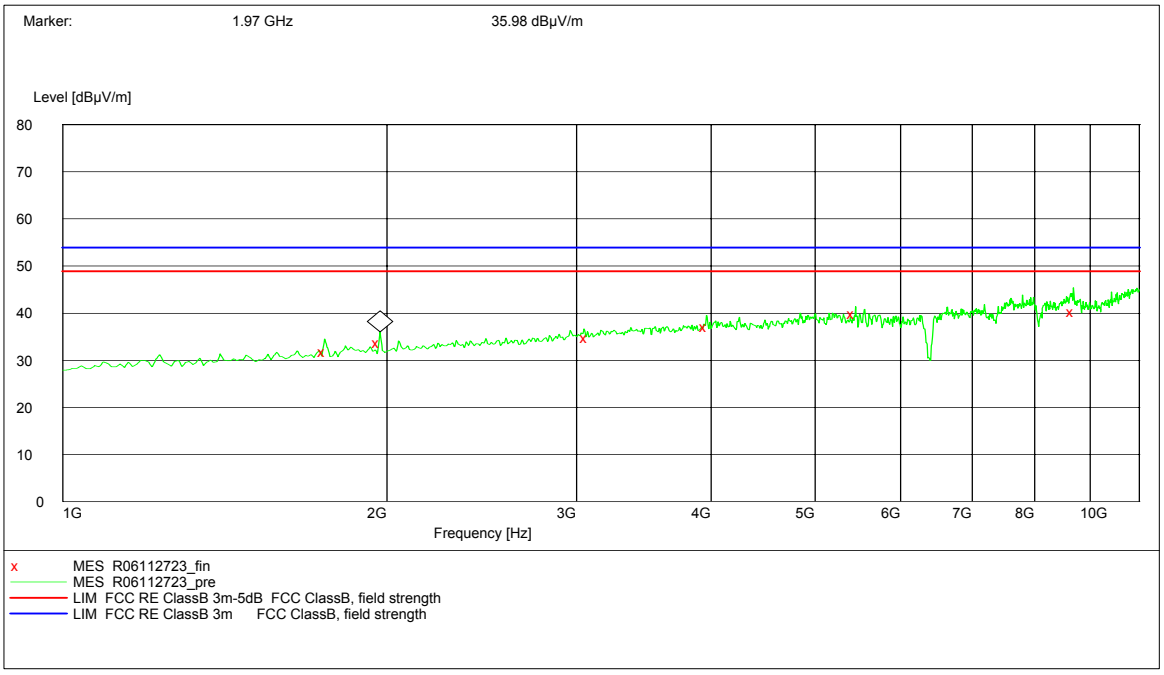
According to CFR 47 (FCC) part 15.107

Measurement result

30M~1GHz:



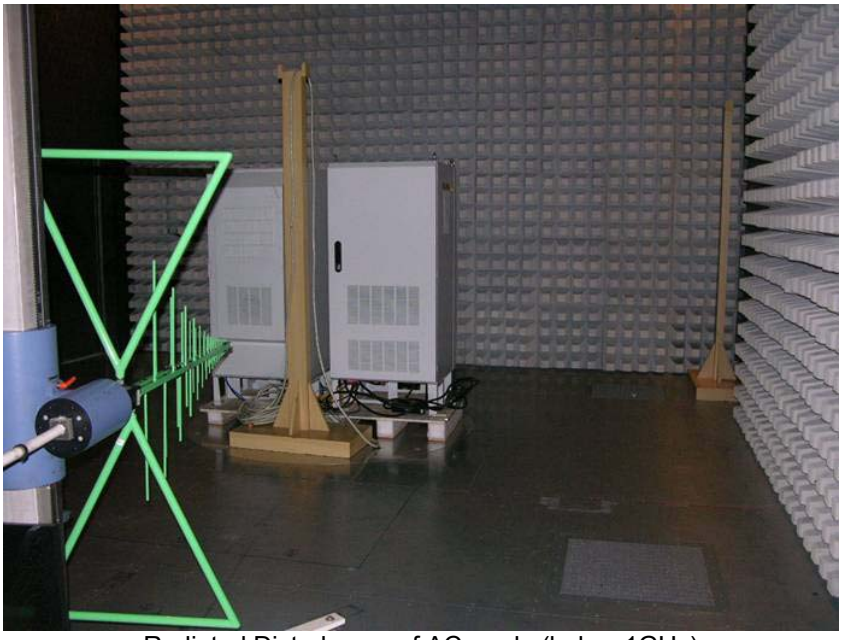
1GHz~12.75GHz:



Appendix I

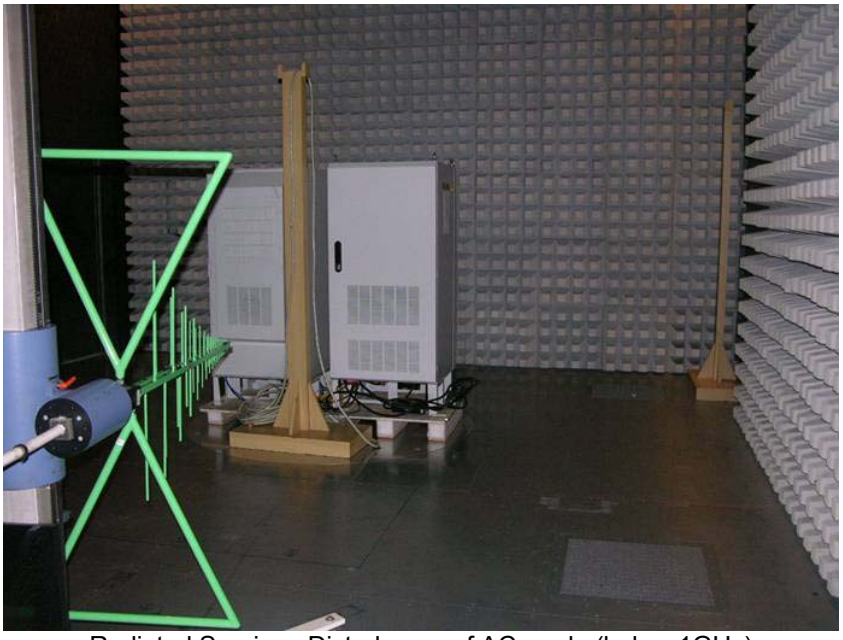
Photos of Test Setup

1 Radiated Emissions

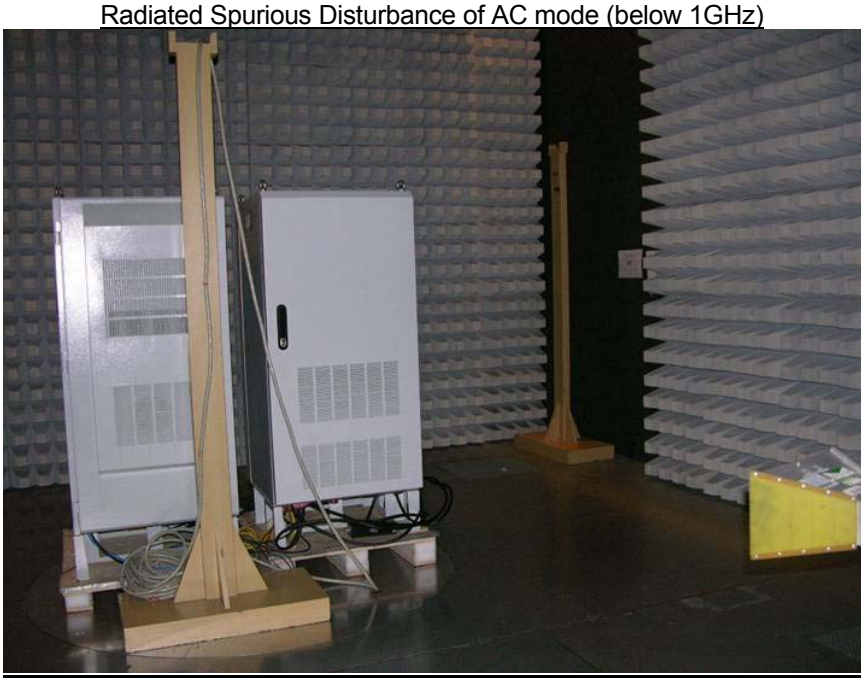


Radiated Disturbance of AC mode (below 1GHz)

2 Radiated Spurious Emissions



Radiated Spurious Disturbance of AC mode (below 1GHz)



Radiated Spurious Disturbance of AC mode (above 1GHz)

3 Conducted Emissions