

Test Report No. : SYBH(E)16022005

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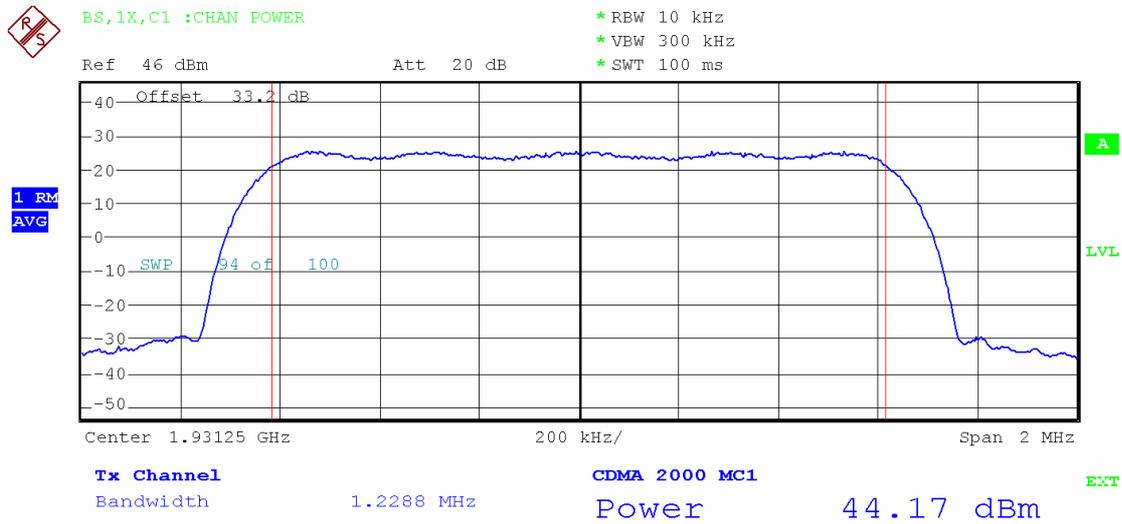
Appendix A
Channel Power Measurement
According to CFR 47 (FCC) part 2.1046

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A. Single Carrier:

Channel 25



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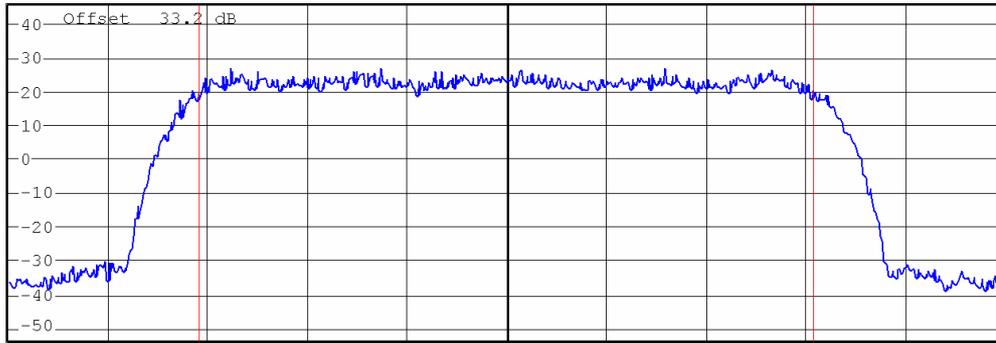
Channel 600



BS,1X,C1 :CHAN POWER

* RBW 10 kHz
* VBW 300 kHz
* SWT 100 ms

Ref 46 dBm Att 20 dB



1 RM
AVG

Center 1.96 GHz 200 kHz/ Span 2 MHz

Tx Channel

CDMA 2000 MC1

EXT

Bandwidth

1.2288 MHz

Power

43.20 dBm

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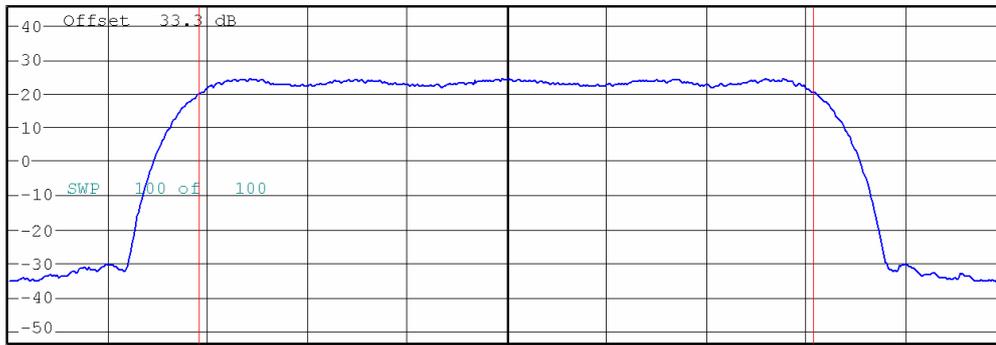
Channel 1175



BS,1X,C1 :CHAN POWER

* RBW 10 kHz
* VBW 300 kHz
* SWT 100 ms

Ref 46.1 dBm Att 20 dB



1 RM
AVG

A
LVL

Tx Channel
Bandwidth

1.2288 MHz

CDMA 2000 MC1
Power

43.42 dBm

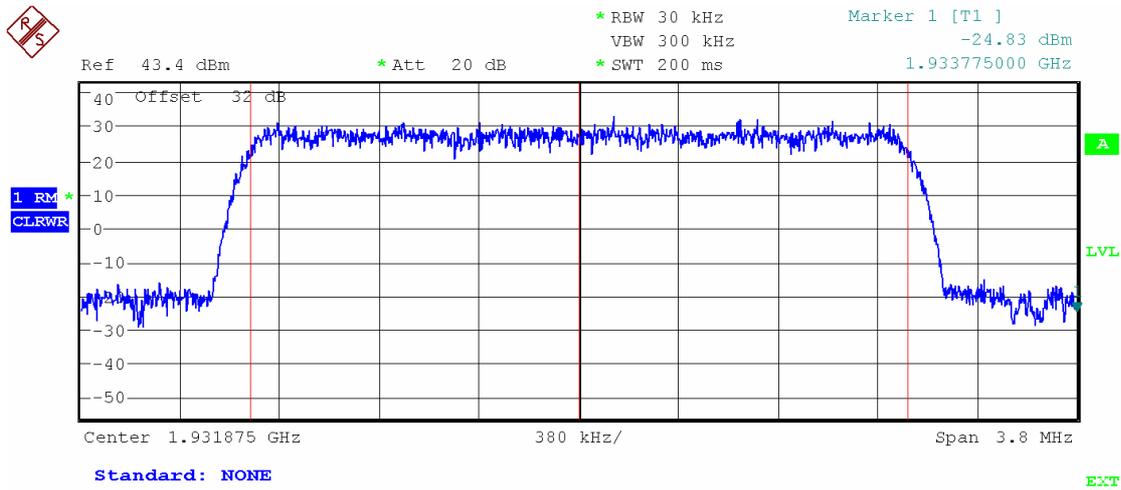
EXT

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B. Two Carriers:

Channel 25



Tx Channels

Ch1	42.90 dBm
Ch2	42.93 dBm
Total	45.93 dBm

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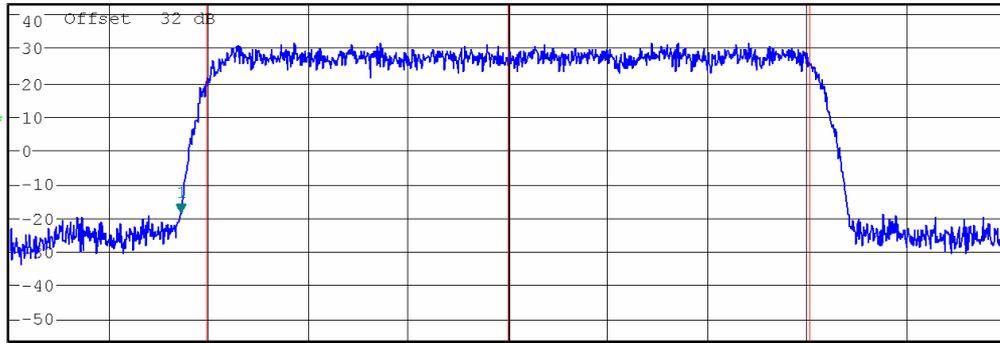
Page 6 of 10

Channel 600



Ref 43.4 dBm *Att 20 dB *RBW 30 kHz Marker 1 [T1]
 VBW 300 kHz -18.84 dBm
 *SWT 200 ms 1.957984276 GHz

1 RM *
CLRWR



Center 1.95935 GHz 415 kHz/ Span 4.15 MHz

Standard: NONE

EXT

Tx Channels

Ch1 43.11 dBm

Ch2 43.37 dBm

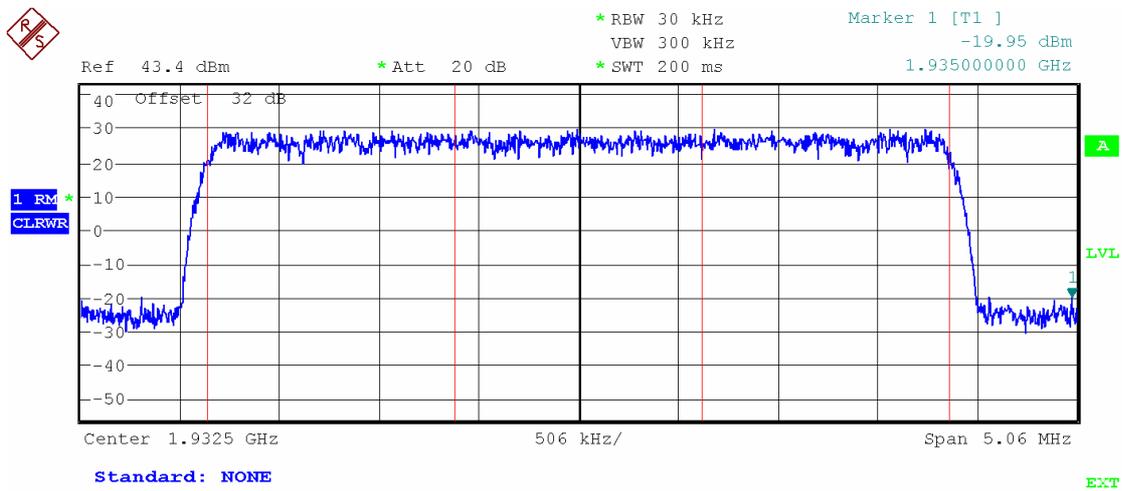
Total 46.26 dBm

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C. Three Carriers:

Channel 25



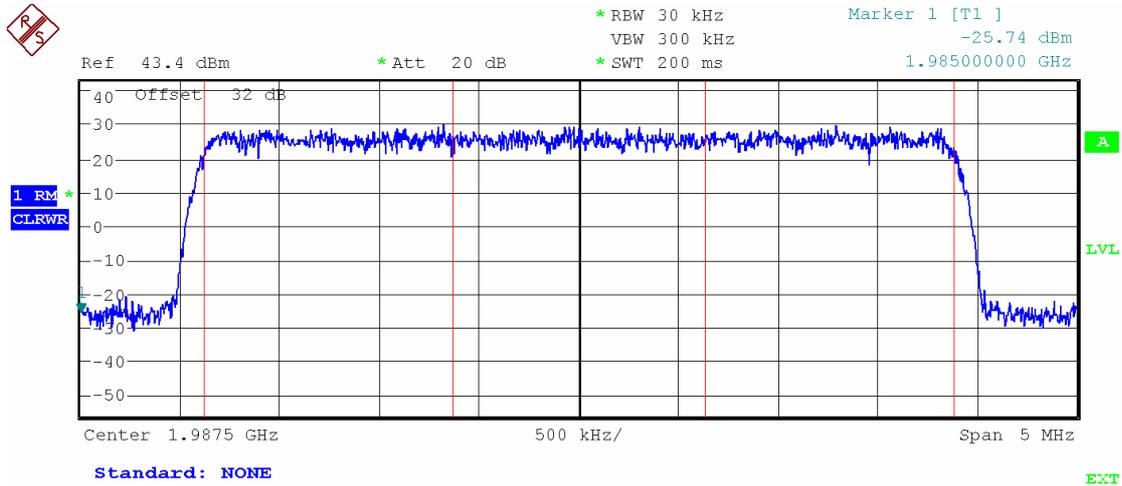
Tx Channels

Ch1	41.59 dBm
Ch2	41.58 dBm
Ch3	41.69 dBm
Total	46.39 dBm

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Channel 1175



Tx Channels

Ch1	41.26 dBm
Ch2	41.21 dBm
Ch3	41.19 dBm
Total	45.99 dBm

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Appendix B
Modulation Characteristic Measurement
According to CFR 47 (FCC) part 2.1047

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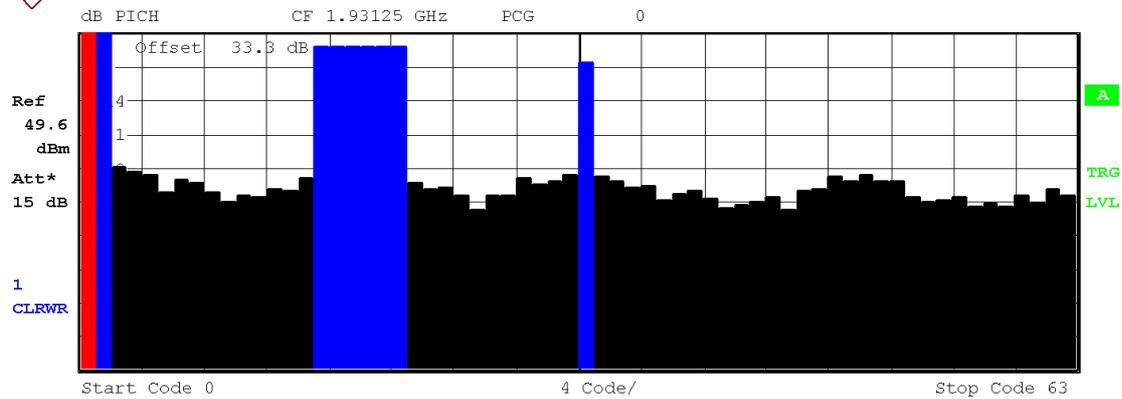
Page 2 of 3

Channel 25 RC1



BS,1X,C1 :CODE POWER

SR 19.2 ksps
Chan 0.64
PCG 0



Start Code 0 4 Code/ Stop Code 63

RESULT SUMMARY TABLE

SR 19.2 ksps
Chan 0.64
PCG 0

EXT

Offset 33.3 dB CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	44.41 dBm	Carr Freq Error	-12.65 Hz
Pilot PWR	37.37 dBm	Carr Freq Error	-0.01 ppm
RHO	0.99229	Chip Rate Error	-0.14 ppm
Composite EVM	8.82 %	Trg to Frame	221.514739 ns
Pk CDE (SF 64)	-35.02 dB	Active Channels	9
IQ Imbal/Offset	0.26/0.33 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	2.83 % rms	Channel Power Abs	37.37 dBm
		Symbol EVM	6.78 % Pk

B

LVL

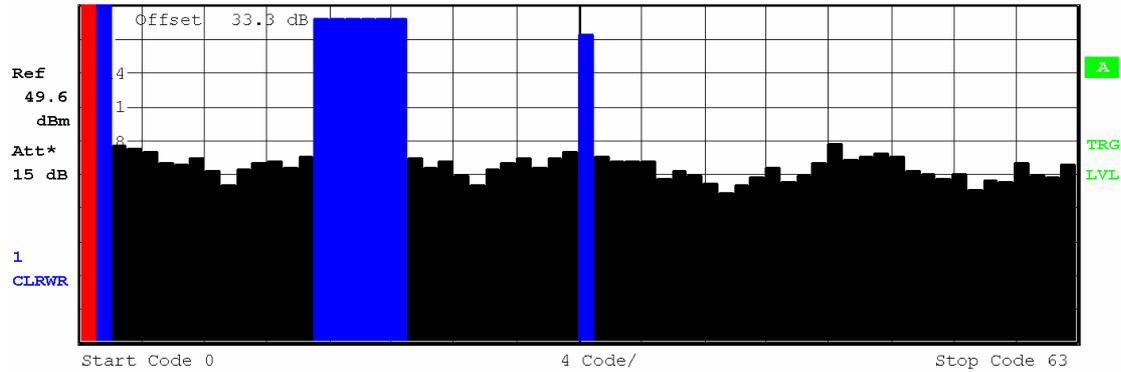
Test Report No.: SYBH(E)16022005

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RC3



BS,1X,C1 :CODE POWER SR 19.2 kbps
Chan 0.64
CF 1.93125 GHz PCG 0



RESULT SUMMARY TABLE SR 19.2 kbps
Chan 0.64
Offset 33.3 dB CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	44.45 dBm	Carr Freq Error	-6.17 Hz
Pilot PWR	37.40 dBm	Carr Freq Error	-0.00 ppm
RHO	0.99358	Chip Rate Error	0.19 ppm
Composite EVM	8.05 %	Trg to Frame	220.669051 ns
Pk CDE (SF 64)	-36.26 dB	Active Channels	9
IQ Imbal/Offset	0.50/0.15 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	3.03 % rms	Channel Power Abs	37.40 dBm
		Symbol EVM	5.31 % Pk

Test Report No.: SYBH(E)16022005

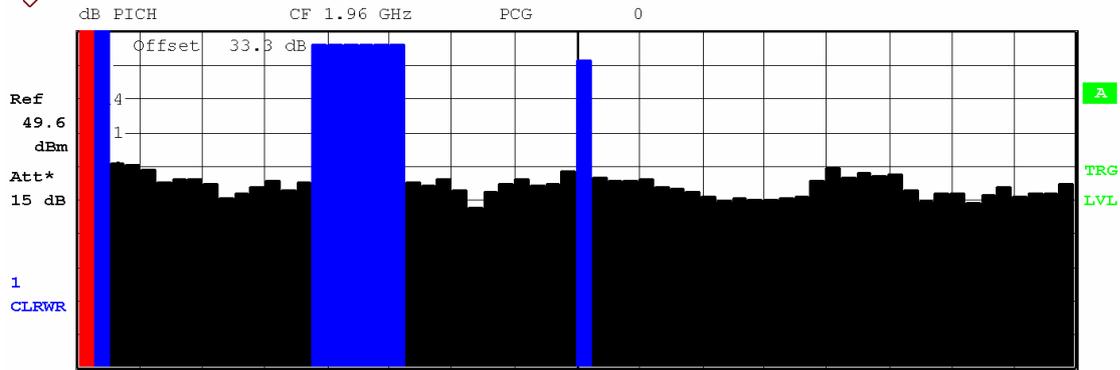
Page 4 of 3

Channel 600 RC1



BS,1X,C1 :CODE POWER

SR 19.2 ksp/s
Chan 0.64
PCG 0



Start Code 0 4 Code/ Stop Code 63

RESULT SUMMARY TABLE

SR 19.2 ksp/s
Chan 0.64
PCG 0

EXT

Offset 33.3 dB CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.76 dBm	Carr Freq Error	-21.24 mHz
Pilot PWR	36.70 dBm	Carr Freq Error	-0.00 ppm
RHO	0.99136	Chip Rate Error	0.04 ppm
Composite EVM	9.35 %	Trg to Frame	221.101558 ns
Pk CDE (SF 64)	-34.72 dB	Active Channels	9
IQ Imbal/Offset	0.21/0.21 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksp/s		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	3.20 % rms	Channel Power Abs	36.70 dBm
		Symbol EVM	6.25 % Pk

B

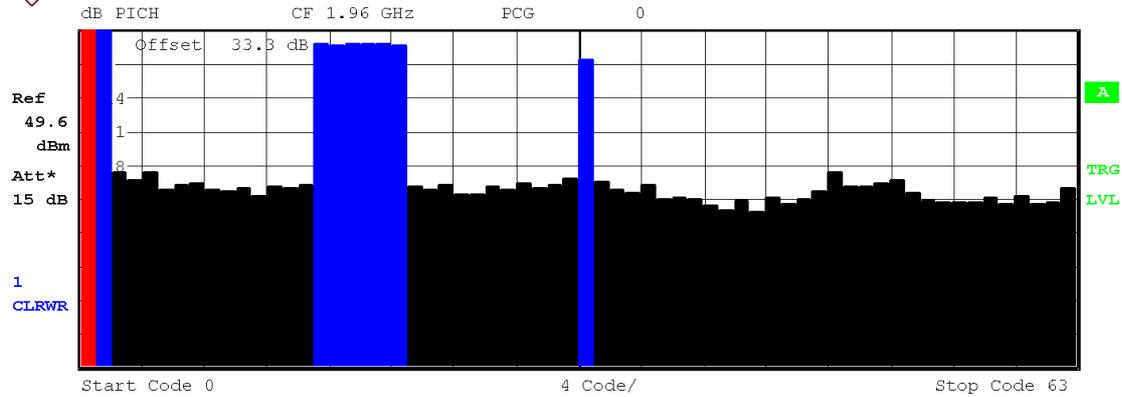
LVL

RC3



BS,1X,C1 :CODE POWER

SR 19.2 kbps
Chan 0.64
PCG 0



RESULT SUMMARY TABLE

SR 19.2 kbps
Chan 0.64
PCG 0

Offset 33.3 dB

CF 1.96 GHz

PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.82 dBm	Carr Freq Error	3.91 Hz
Pilot PWR	36.78 dBm	Carr Freq Error	0.00 ppm
RHO	0.99341	Chip Rate Error	-0.27 ppm
Composite EVM	8.14 %	Trg to Frame	221.853867 ns
Pk CDE (SF 64)	-36.51 dB	Active Channels	9
IQ Imbal/Offset	0.22/0.30 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	2.99 % rms	Channel Power Abs	36.78 dBm
		Symbol EVM	5.86 % Pk

Channel 1175 RC1



BS,1X,C1 :CODE POWER

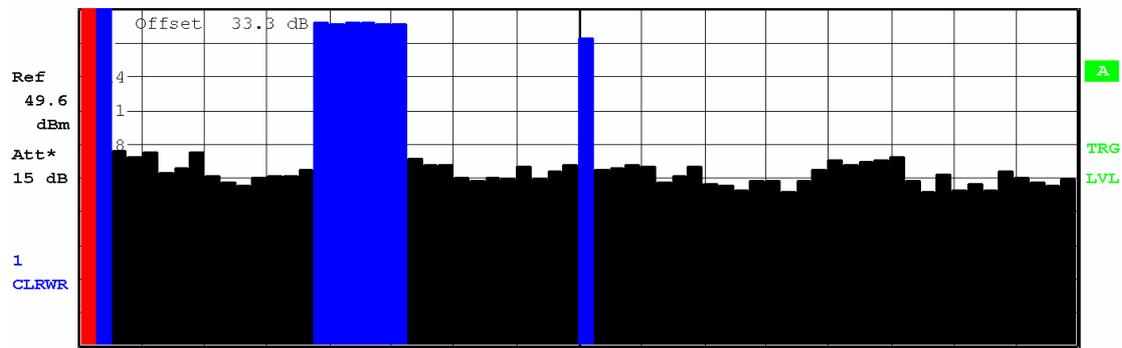
SR 19.2 ksps

Chan 0.64

dB PICH

CF 1.98875 GHz

PCG 0



Start Code 0

4 Code/

Stop Code 63

RESULT SUMMARY TABLE

SR 19.2 ksps

Chan 0.64

EXT

Offset 33.3 dB

CF 1.98875 GHz

PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.81 dBm	Carr Freq Error	3.84 Hz
Pilot PWR	36.79 dBm	Carr Freq Error	0.00 ppm
RHO	0.99443	Chip Rate Error	0.19 ppm
Composite EVM	7.49 %	Trg to Frame	220.649738 ns
Pk CDE (SF 64)	-36.65 dB	Active Channels	9
IQ Imbal/Offset	0.51/0.28 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps	Modulation	BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	2.51 % rms	Channel Power Abs	36.79 dBm
		Symbol EVM	5.73 % Pk

Ref

49.6

dBm

Att*

15 dB

1

CLRWR

B

LVL

Test Report No.: SYBH(E)16022005

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RC3



BS,1X,C1 :CODE POWER

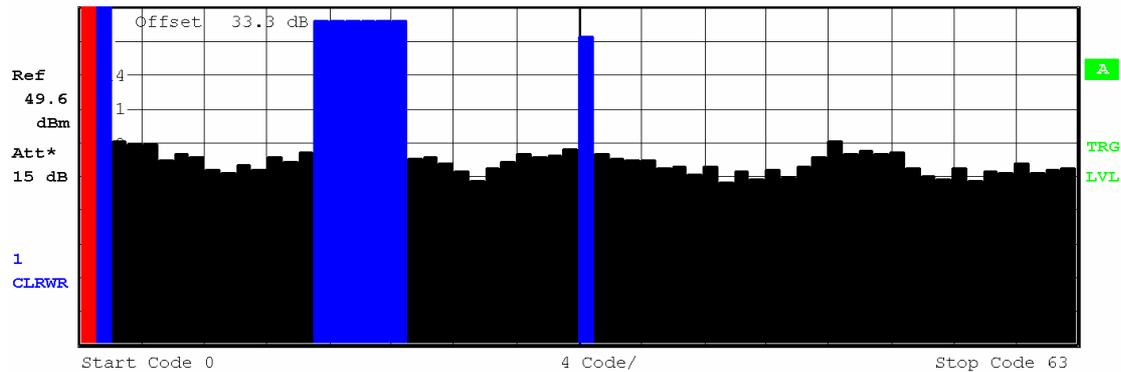
SR 19.2 ksps

Chan 0.64

dB PICH

CF 1.98875 GHz

PCG 0



RESULT SUMMARY TABLE

SR 19.2 ksps

Chan 0.64

Offset 33.3 dB

CF 1.98875 GHz

PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.71 dBm	Carr Freq Error	-622.73 mHz
Pilot PWR	36.63 dBm	Carr Freq Error	-0.00 ppm
RHO	0.99151	Chip Rate Error	-0.03 ppm
Composite EVM	9.25 %	Trg to Frame	221.188685 ns
Pk CDE (SF 64)	-34.36 dB	Active Channels	9
IQ Imbal/Offset	0.53/0.24 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.31 % rms	Channel Power Abs	36.63 dBm
		Symbol EVM	10.79 % Pk

Appendix C

Occupied Bandwidth Measurement

According to CFR 47 (FCC) part 2.1049

Channel 25



BS, 1X, C1 :OCC BANDWDT

* RBW 30 kHz

Marker 1 [T1]

* VBW 300 kHz

-39.69 dBm

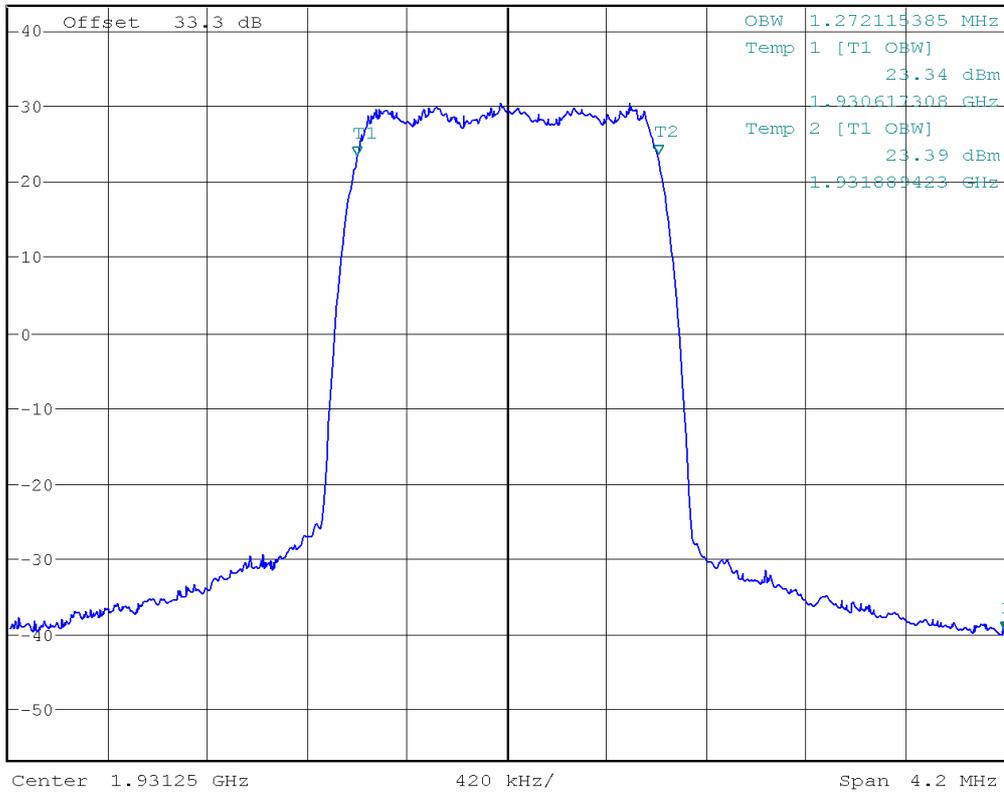
* SWT 100 ms

1.933350000 GHz

Ref 43.3 dBm

* Att 20 dB

1 RM
AVG

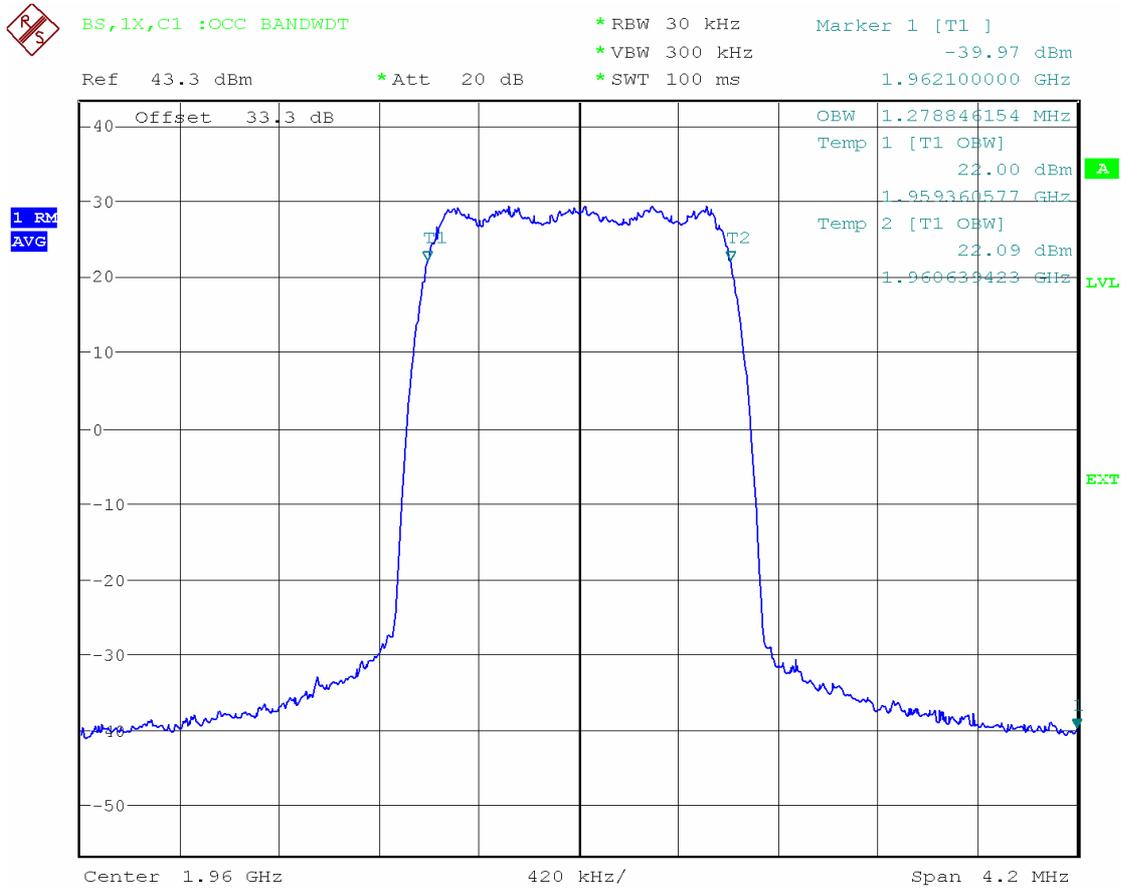


A

LVL

EXT

Channel 600



Channel 1175



BS, 1X, C1 :OCC BANDWDT

* RBW 30 kHz

Marker 1 [T1]

* VBW 300 kHz

-33.75 dBm

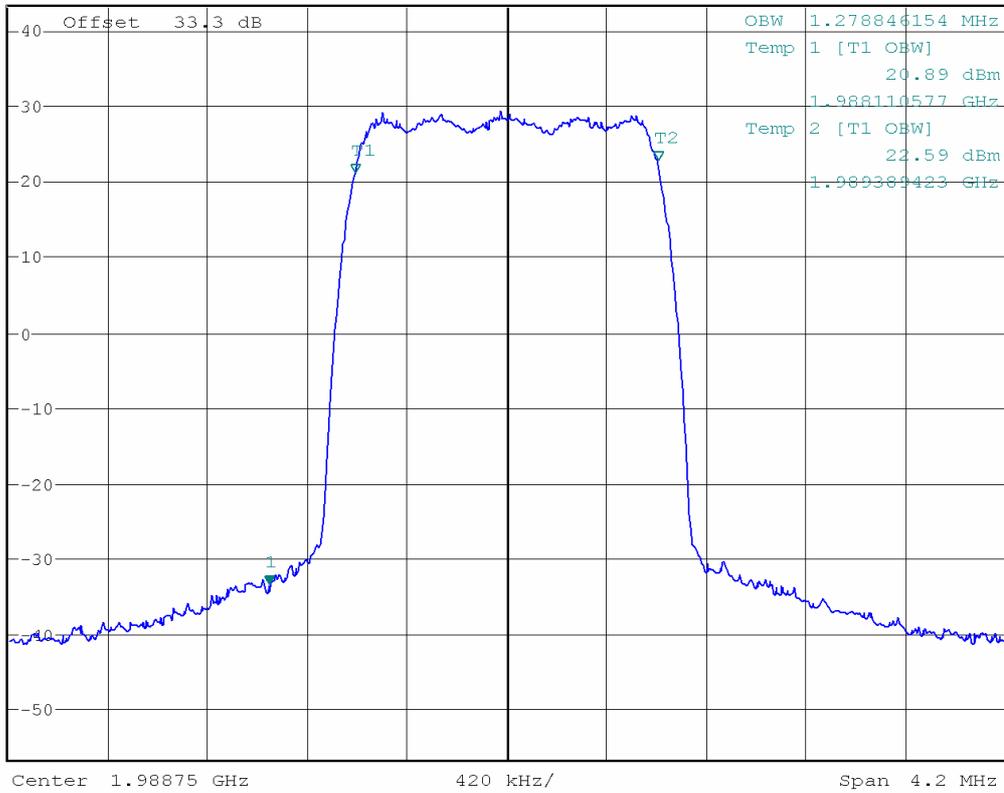
* SWT 100 ms

1.987750000 GHz

Ref 43.3 dBm

* Att 20 dB

1 RM
AVG



A

LVL

EXT

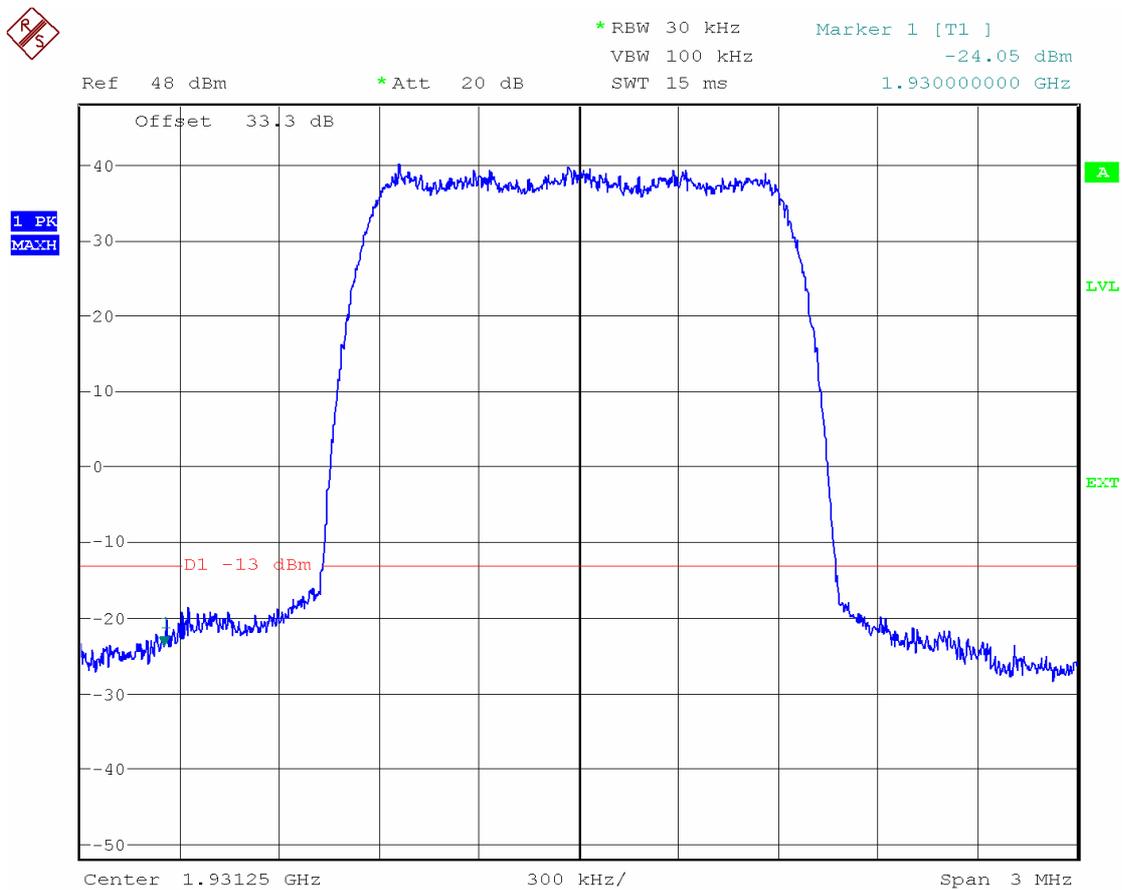
Appendix D
Spurious Emission at Antenna Terminal
Measurements
According to CFR 47 (FCC) part 2.1051

Measurement Result at Block Edge

A 、 Test Record For Single Carrier

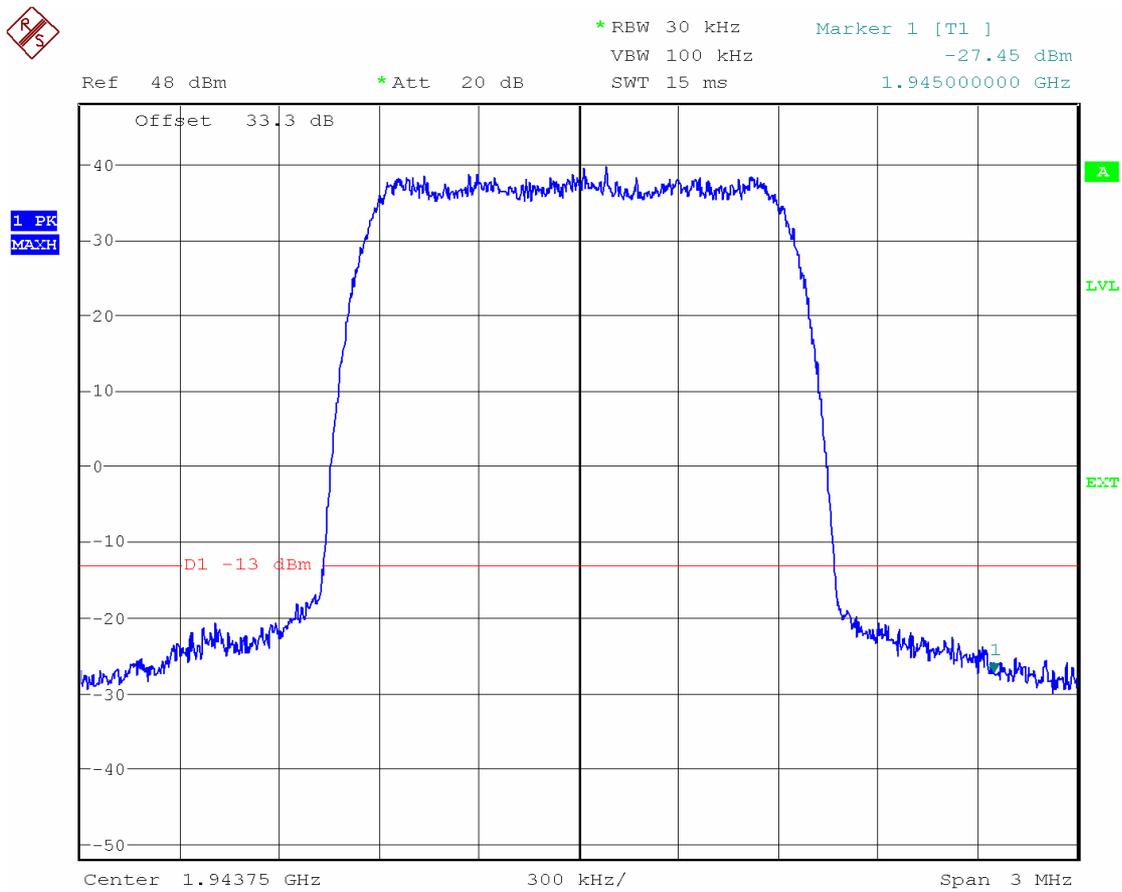
Block A, Left Edge (1930MHz)

Channel 25



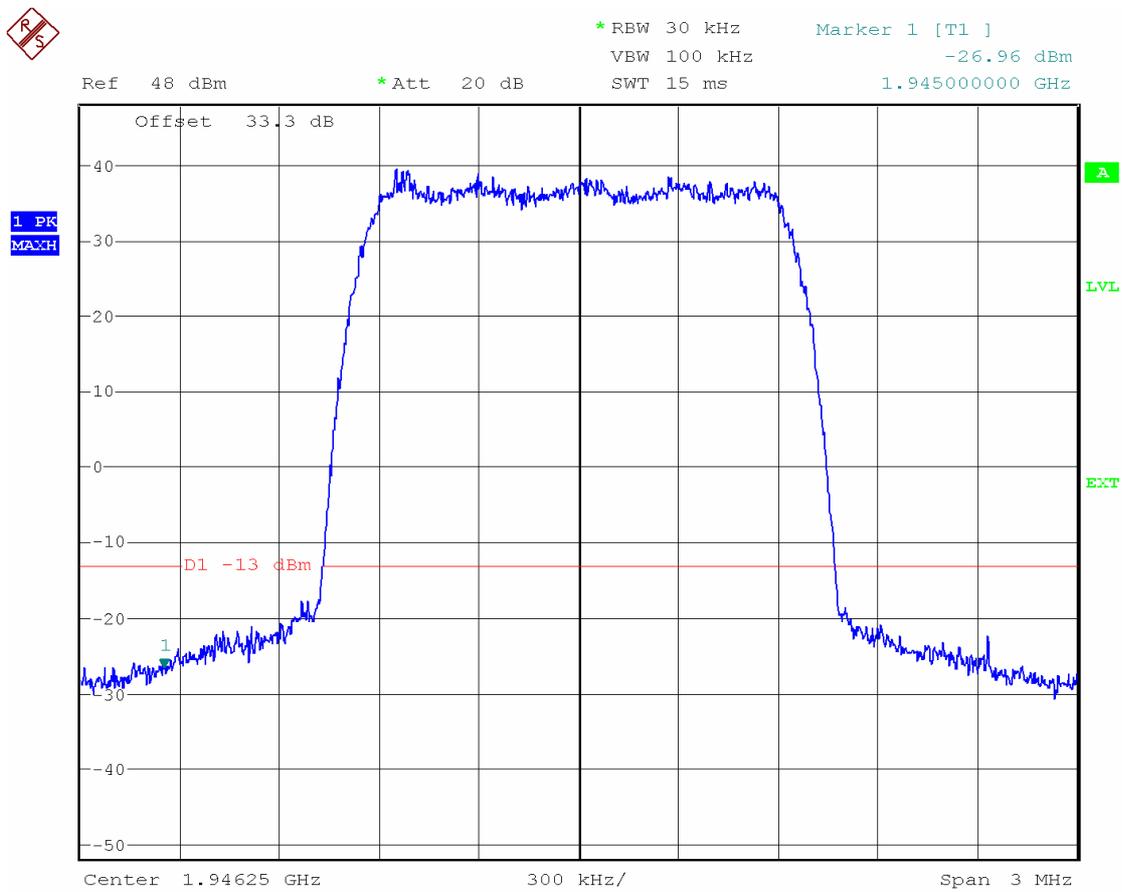
Block A, Right Edge (1945MHz)

Channel 275



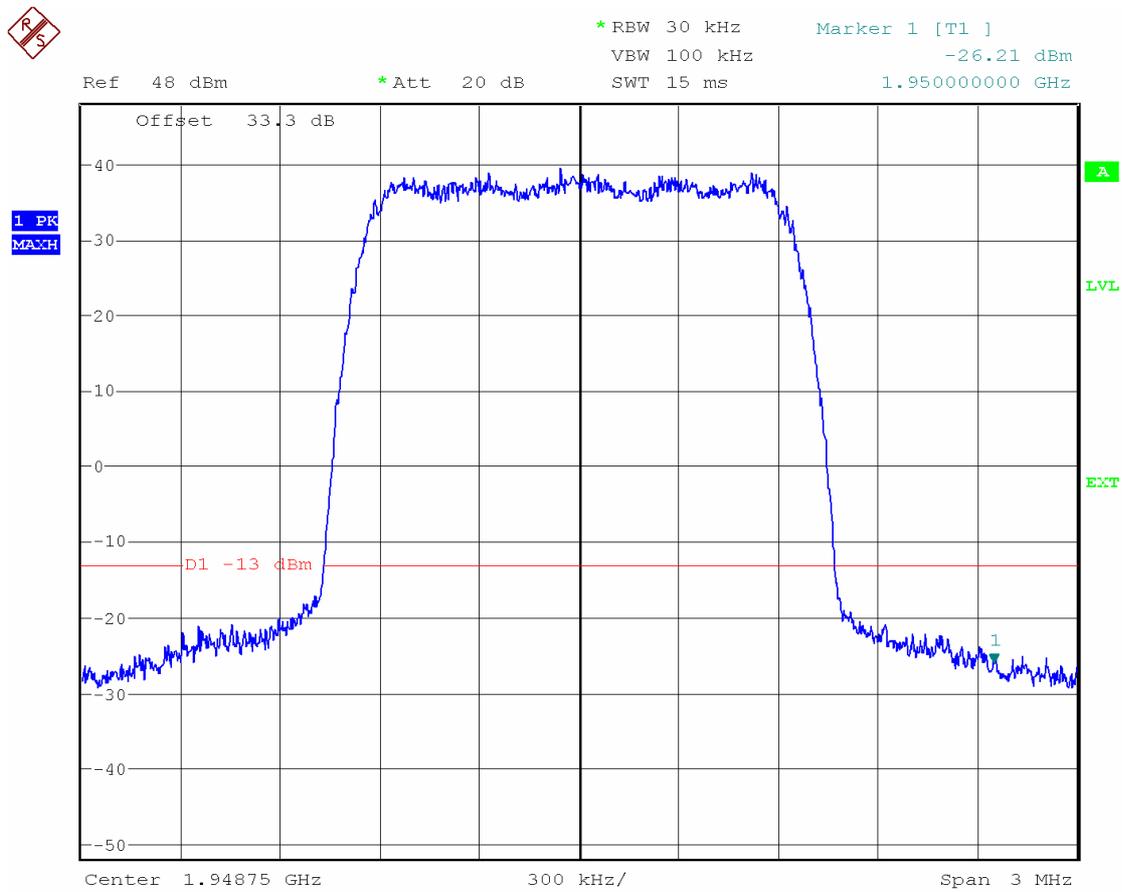
Block D, Left Edge (1945MHz)

Channel 325



Block D, Right Edge (1950MHz)

Channel 375



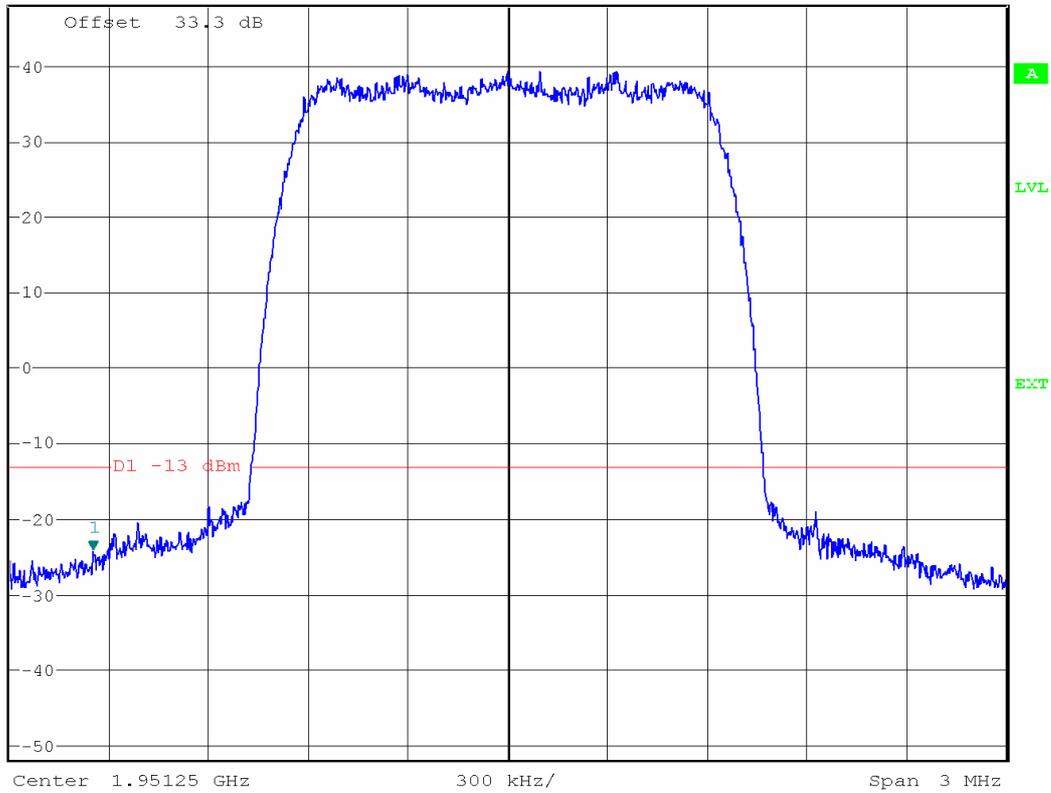
Block B, Left Edge (1950MHz)

Channel 425



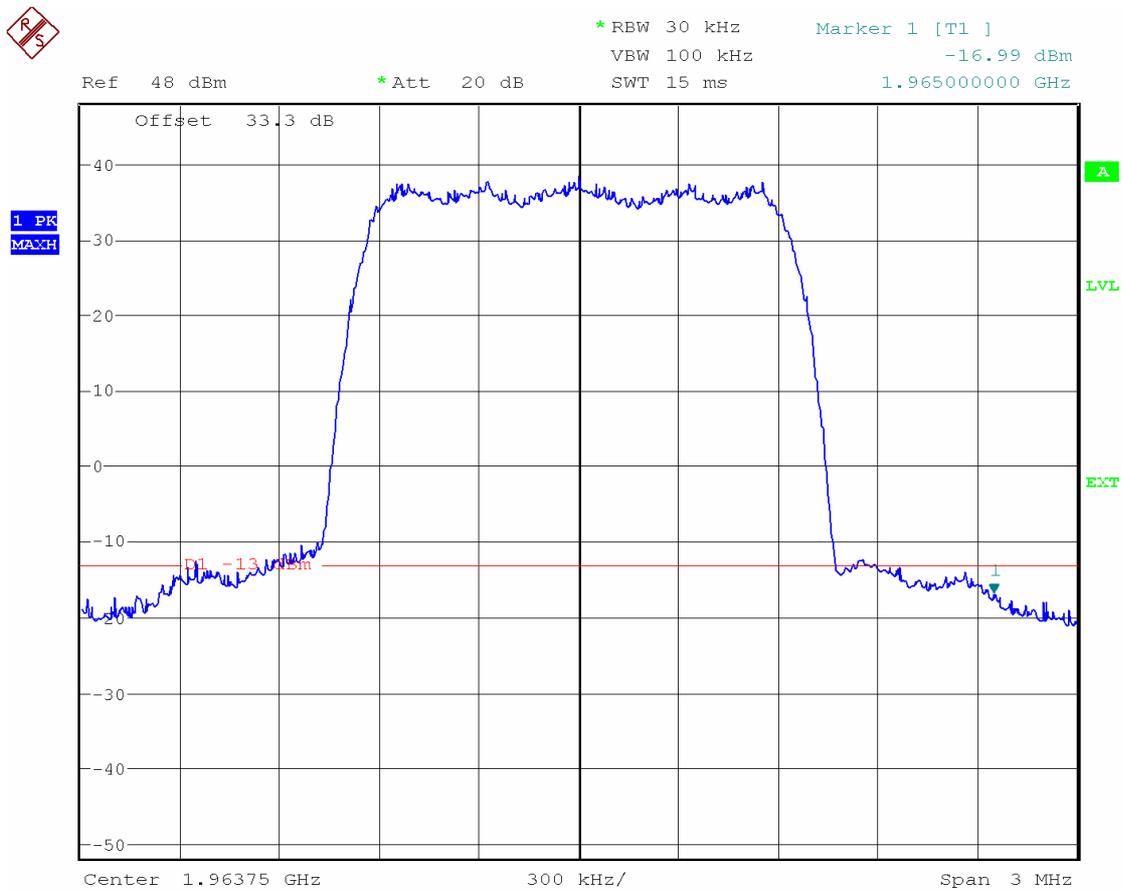
Ref 48 dBm *Att 20 dB *RBW 30 kHz Marker 1 [T1]
Offset 33.3 dB VBW 100 kHz -24.31 dBm
SWT 15 ms 1.95000000 GHz

1 PK
MAXH



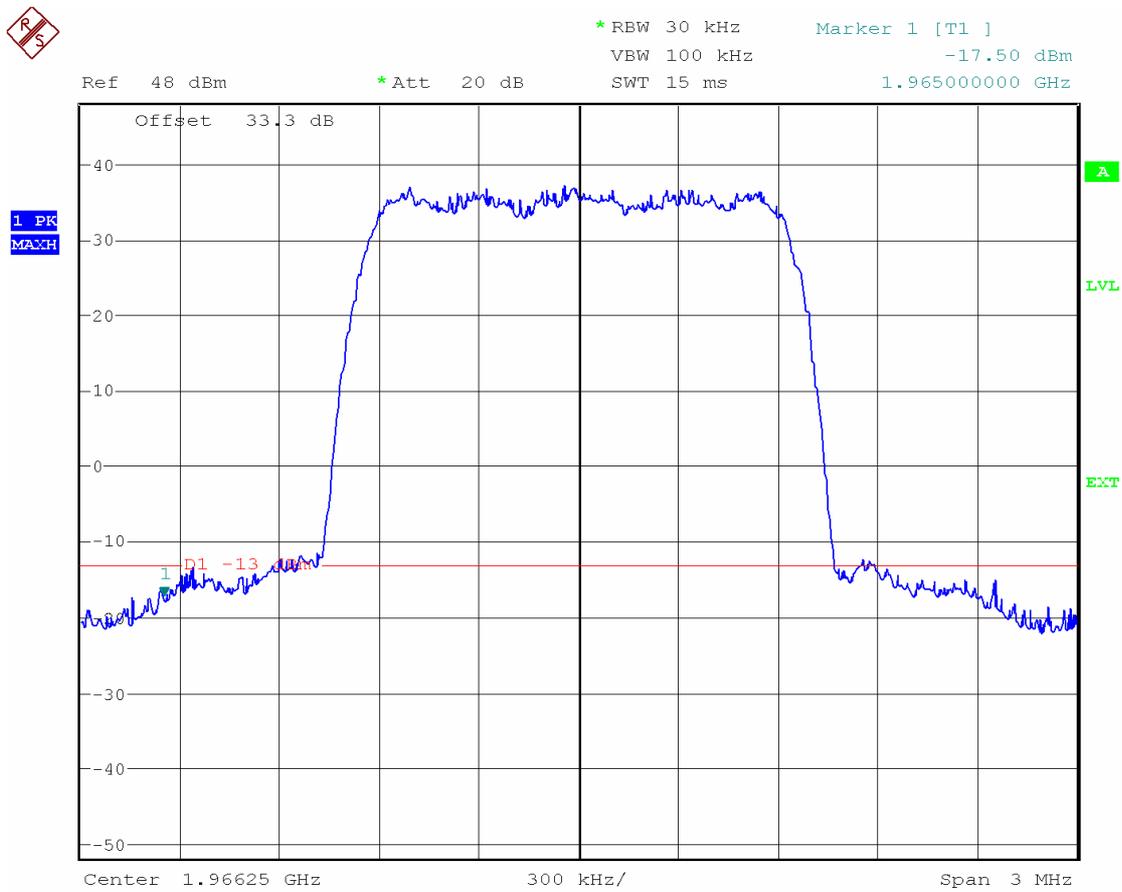
Block B, Right Edge (1965MHz)

Channel 675



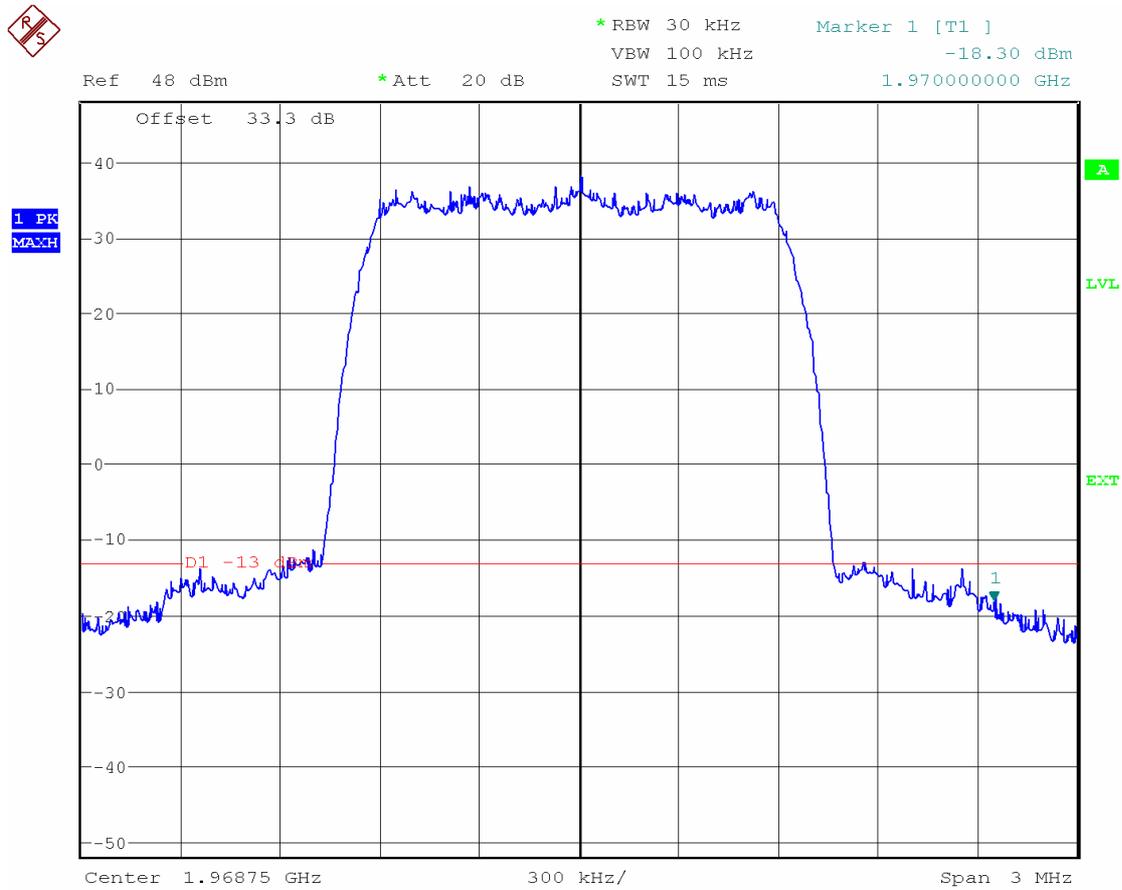
Block E, Left Edge (1965MHz)

Channel 725



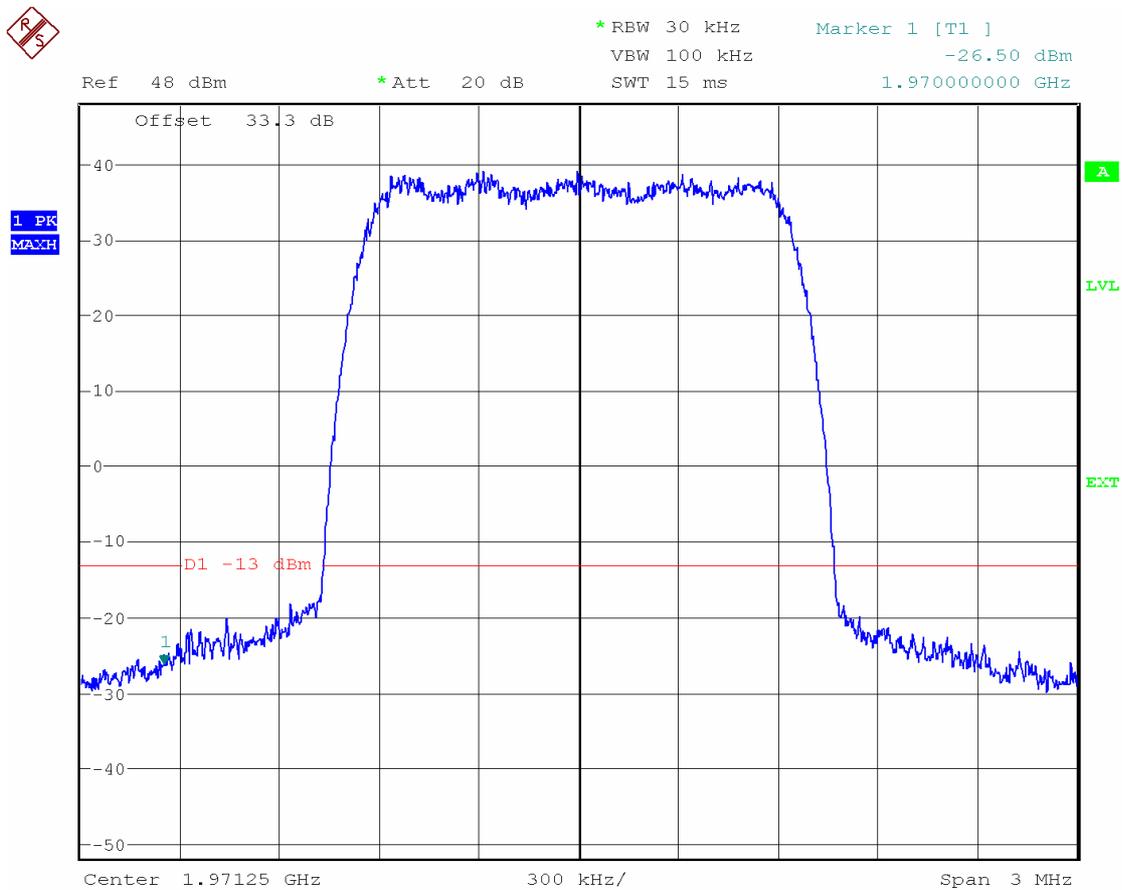
Block E, Right Edge (1970MHz)

Channel 775



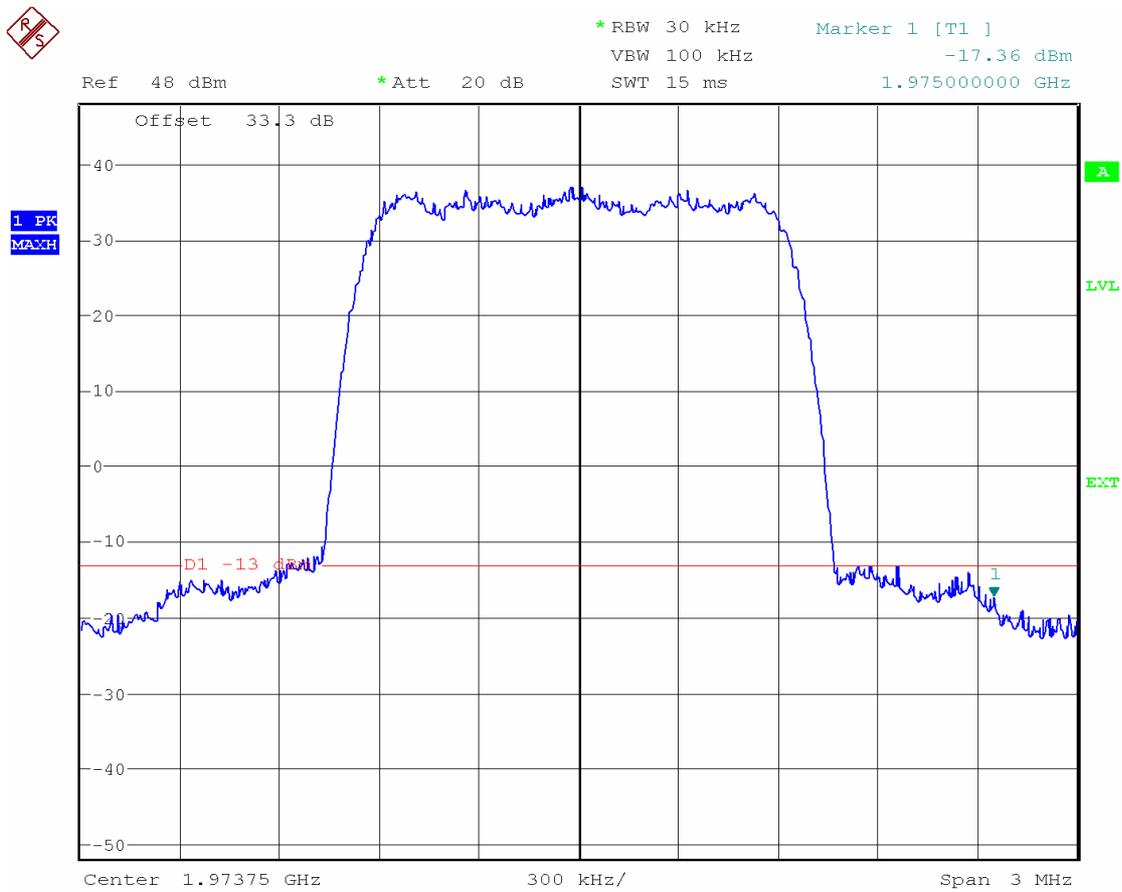
Block F, Left Edge (1970MHz)

Channel 825



Block F, Right Edge (1975MHz)

Channel 875

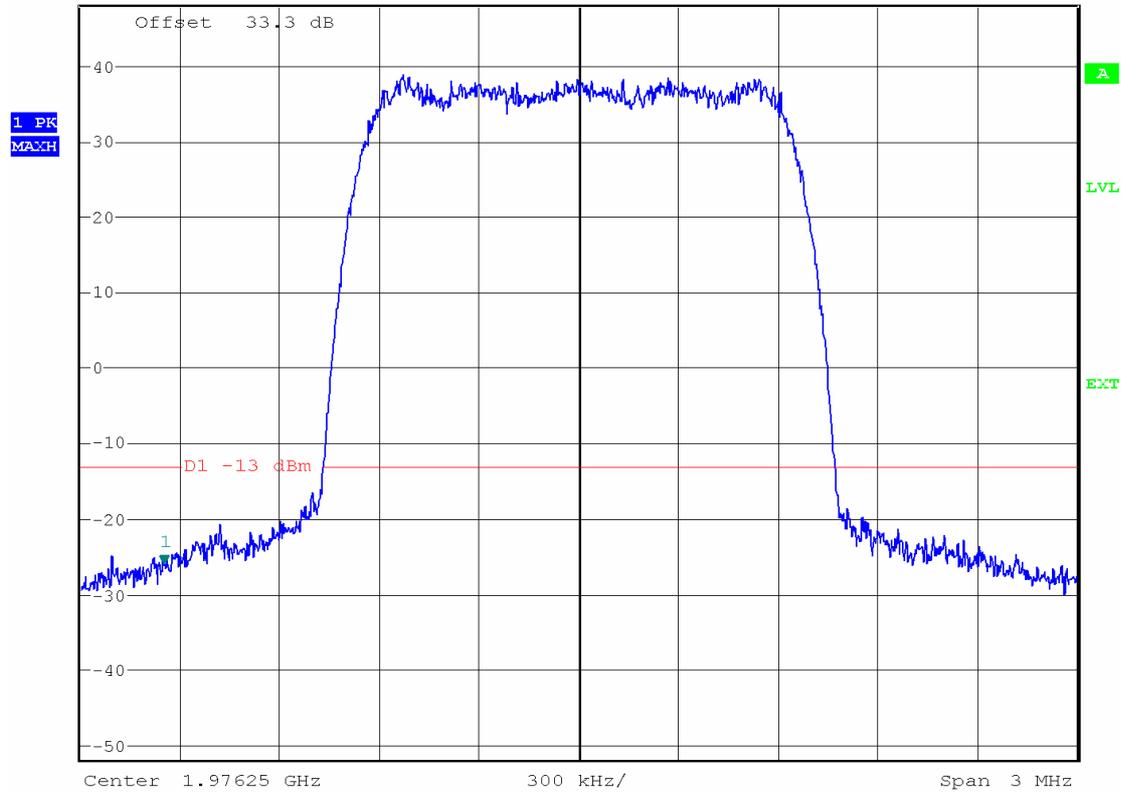


Block C, Left Edge (1975MHz)

Channel 925

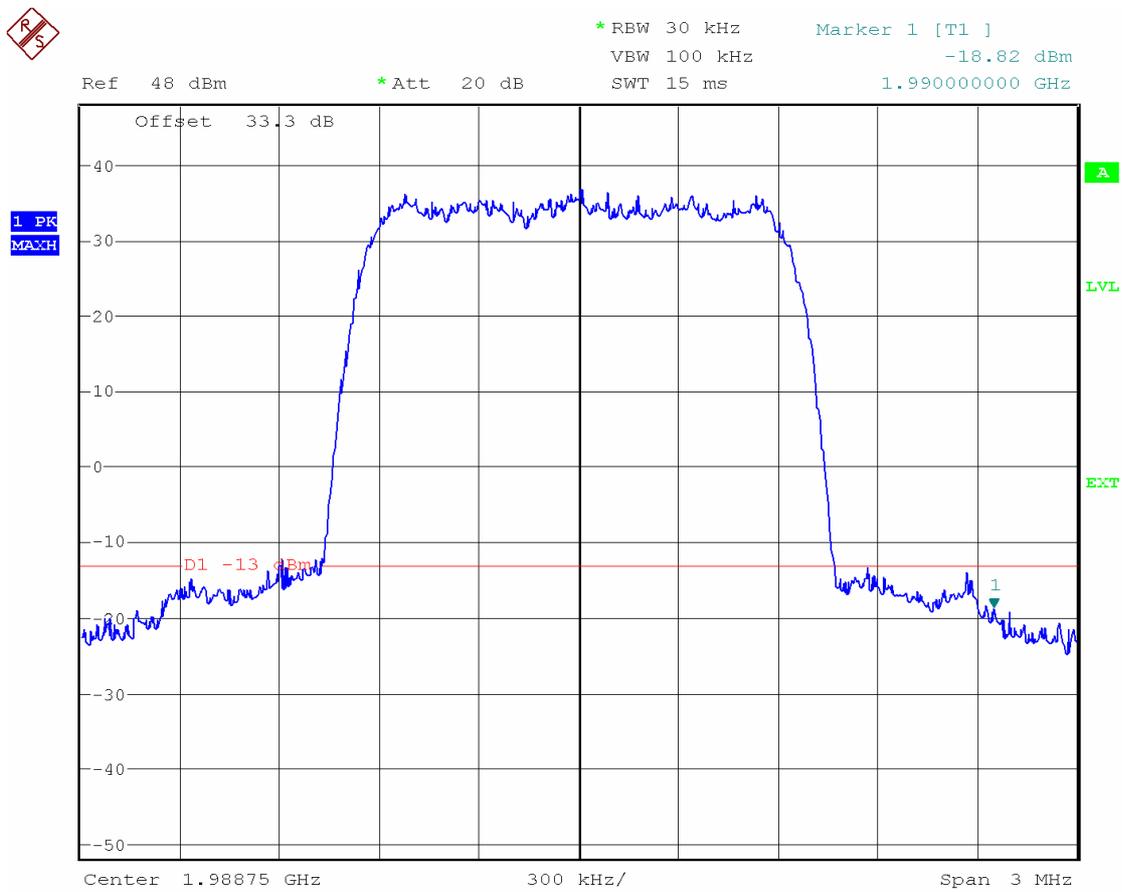


Ref 48 dBm *Att 20 dB *RBW 30 kHz Marker 1 [T1]
VBW 100 kHz -26.35 dBm
SWT 15 ms 1.975000000 GHz



Block C, Right Edge (1990MHz)

Channel 1175



Measurement Result Outband Band Edge

Channel 600



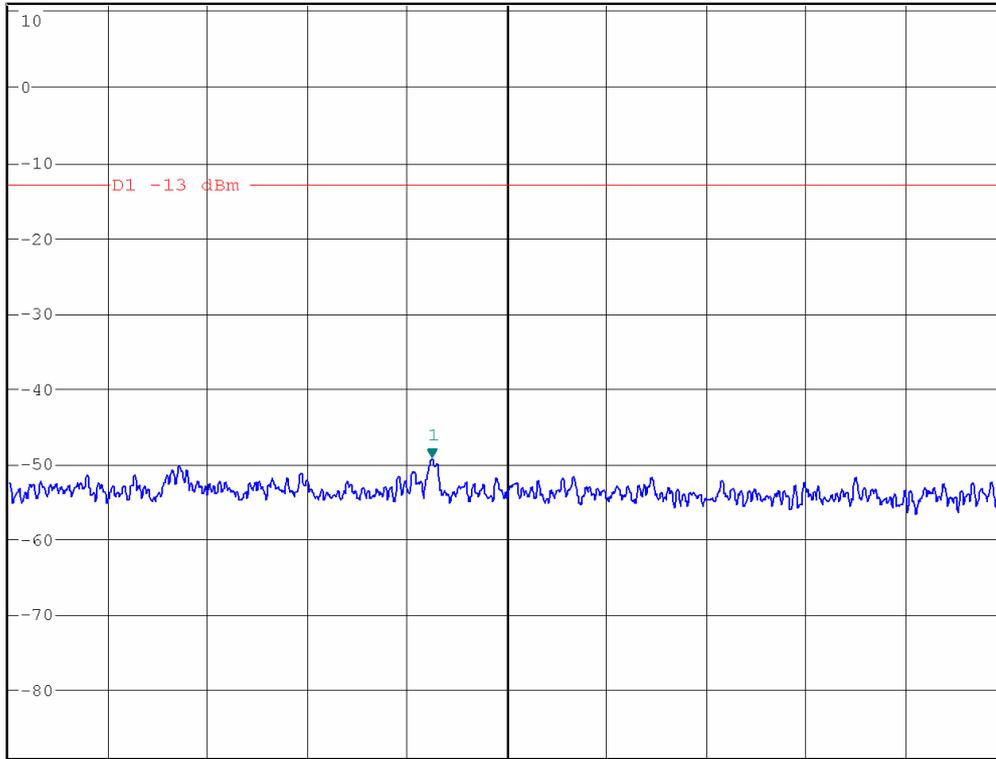
*RBW 1 kHz
VBW 3 kHz
SWT 145 ms

Marker 1 [T1]
-49.44 dBm
68.784000000 kHz

Ref 11 dBm

Att 40 dB

1 PK
MAXH



Start 9 kHz

14.1 kHz/

Stop 150 kHz

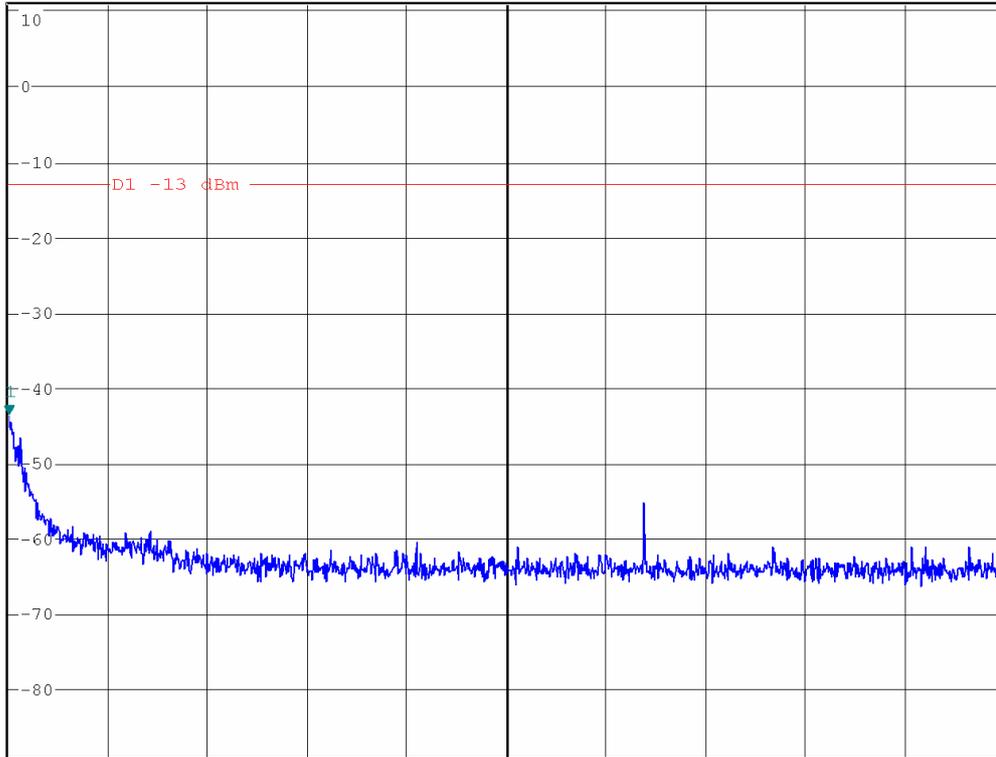


*RBW 10 kHz Marker 1 [T1]
VBW 30 kHz -43.67 dBm
SWT 300 ms 150.00000000 kHz

Ref 11 dBm

Att 40 dB

1 PK
MAXH



Start 150 kHz

2.985 MHz/

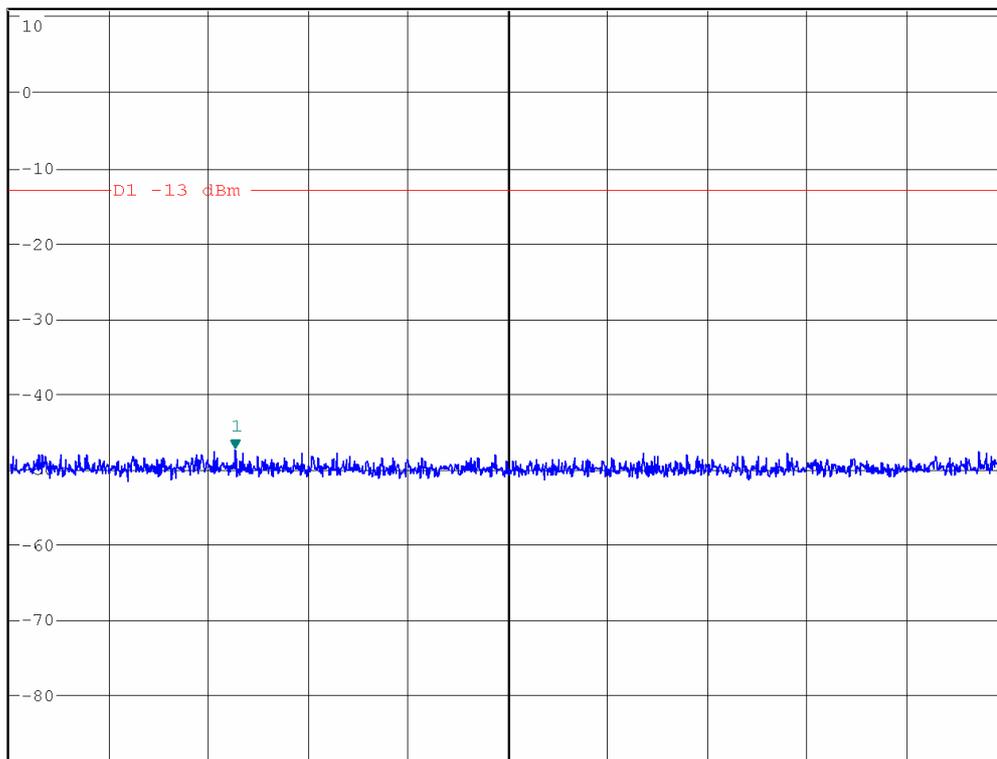
Stop 30 MHz



* RBW 100 kHz Marker 1 [T1]
VBW 300 kHz -47.53 dBm
SWT 100 ms 249.608000000 MHz

Ref 11 dBm Att 40 dB

1 PK
MATCH



Start 30 MHz 97 MHz/ Stop 1 GHz

A

EXT



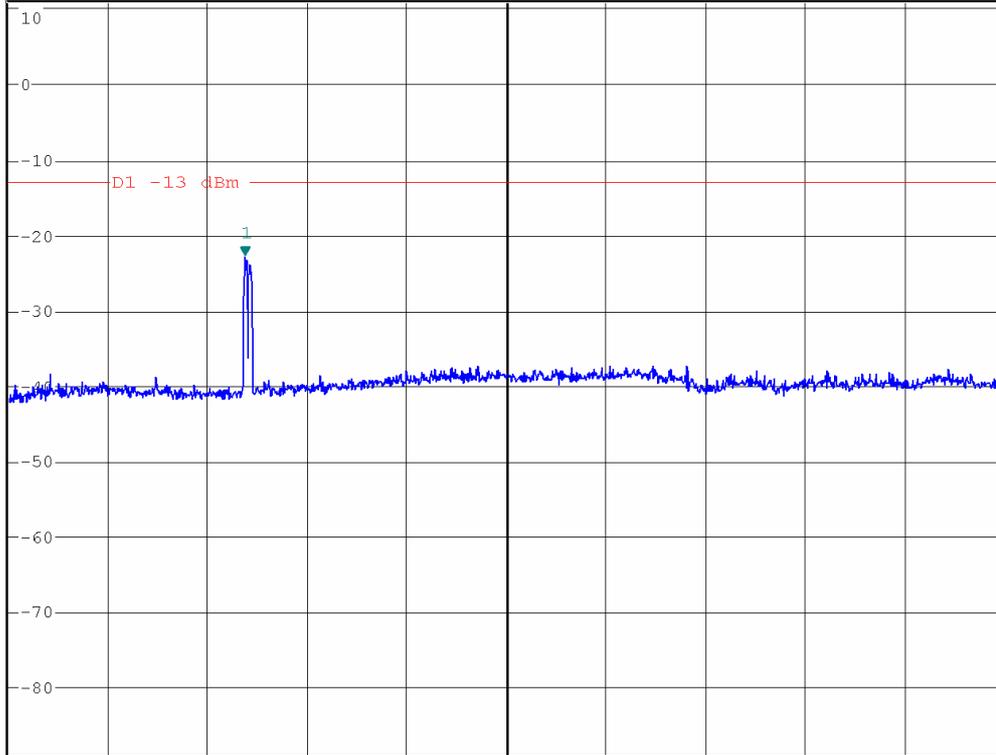
*RBW 1 MHz
VBW 3 MHz
SWT 25 ms

Marker 1 [T1]
-22.84 dBm
1.947200000 GHz

Ref 11 dBm

Att 40 dB

1 PK
MAXH



Start 1 GHz

400 MHz/

Stop 5 GHz

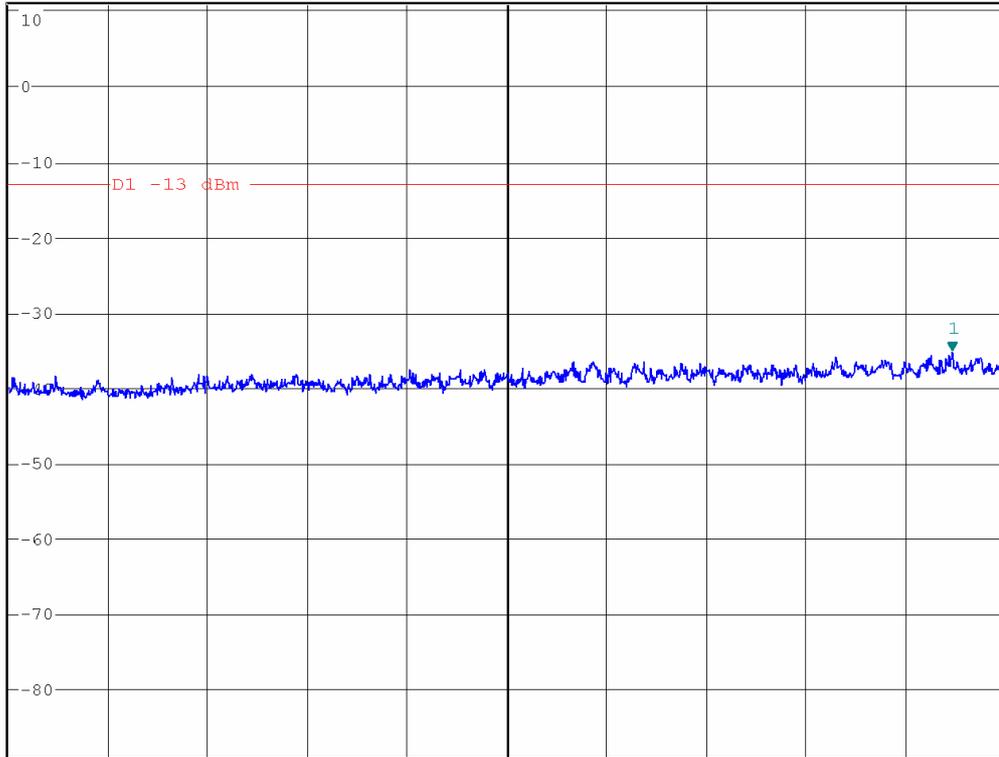


* RBW 1 MHz
VBW 3 MHz
SWT 90 ms
Marker 1 [T1]
-35.37 dBm
19.208000000 GHz

Ref 11 dBm

Att 40 dB

1 PK
MAXH



Start 5 GHz

1.5 GHz/

Stop 20 GHz

EXT

A

Spectrum Mask Test according to EIA/TIA 97E

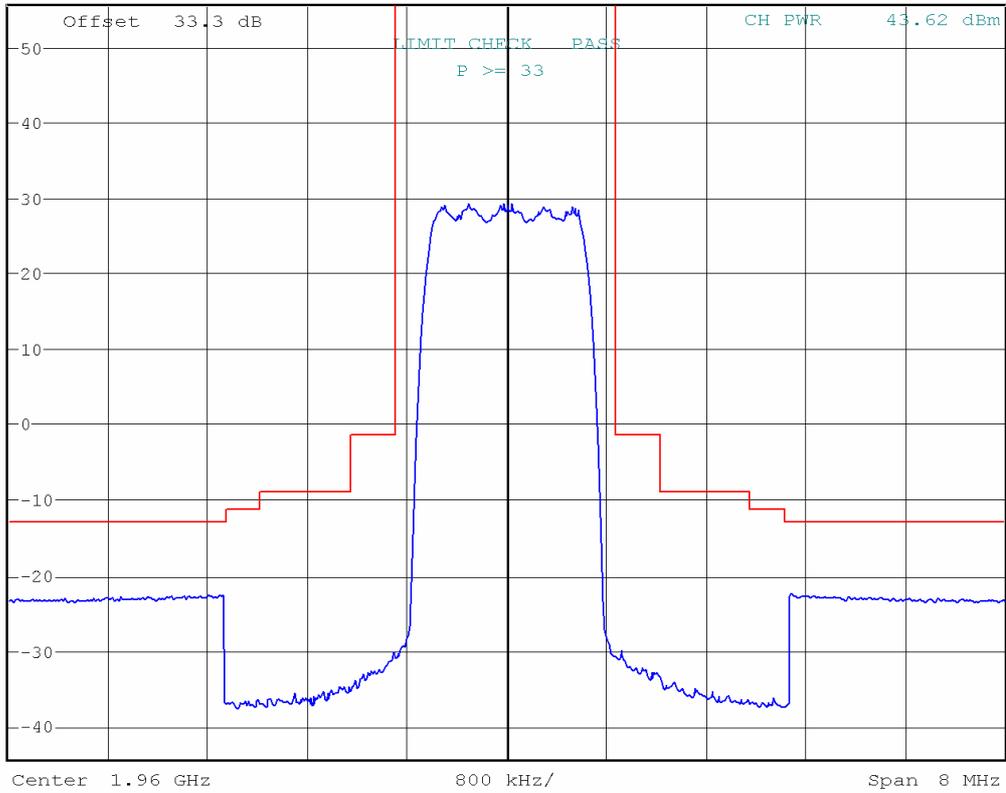
Channel 600



BS, 1X, C1 :SP EM MASK

Ref 55.6 dBm *Att 20 dB *SWT 100 ms

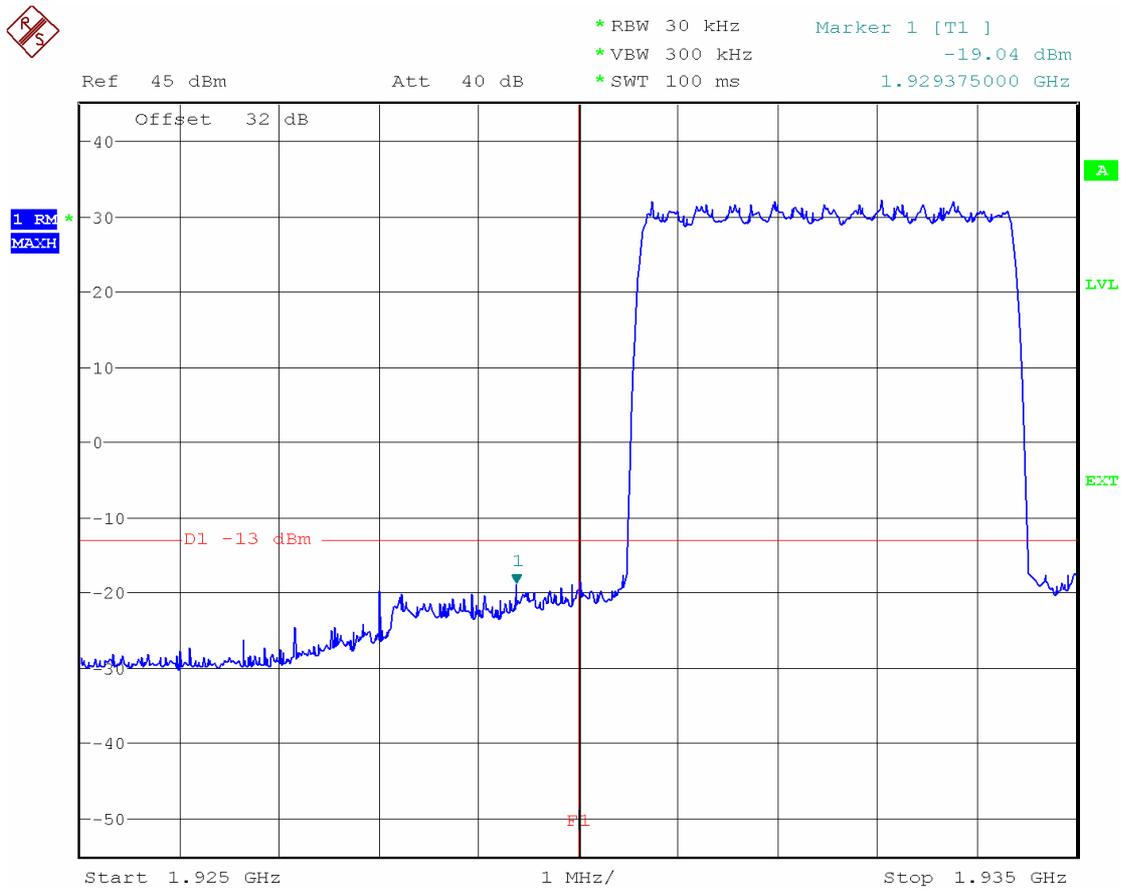
1 RM
AVG



B 、 Test Record For Multiple Carrier

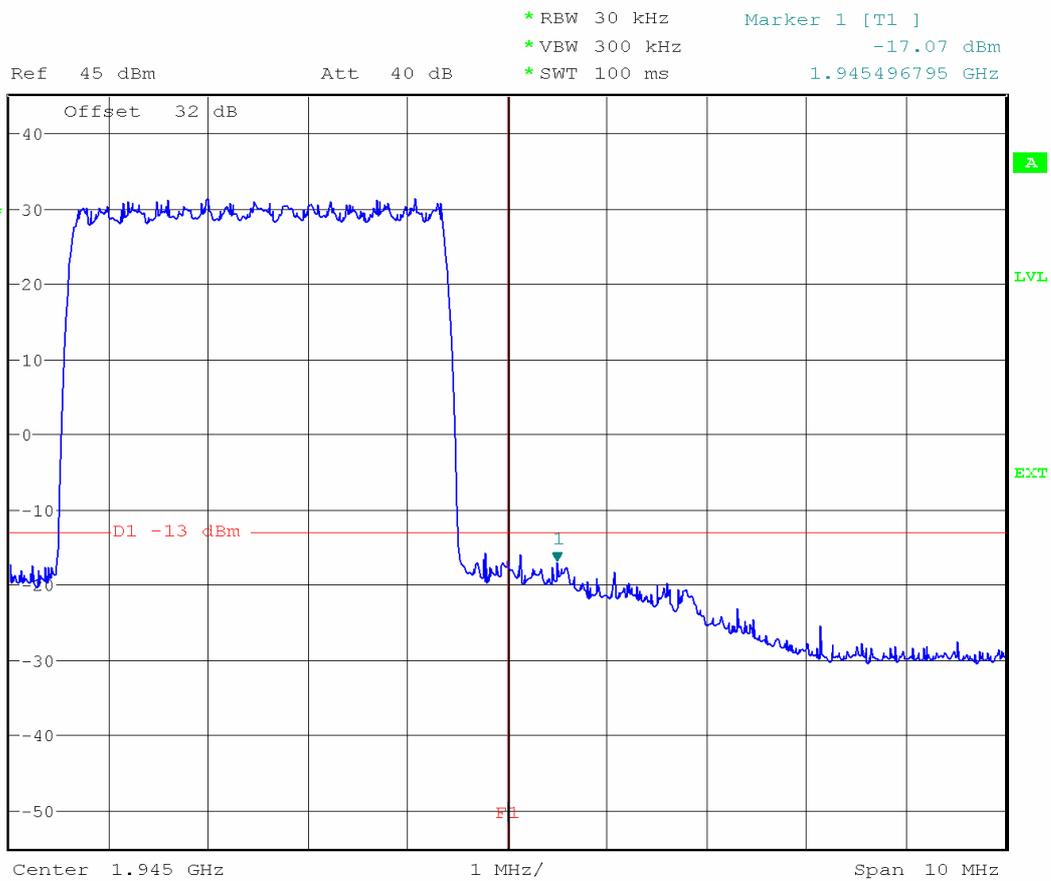
Block A, Left Edge (1930MHz)

Channel 25/50/75



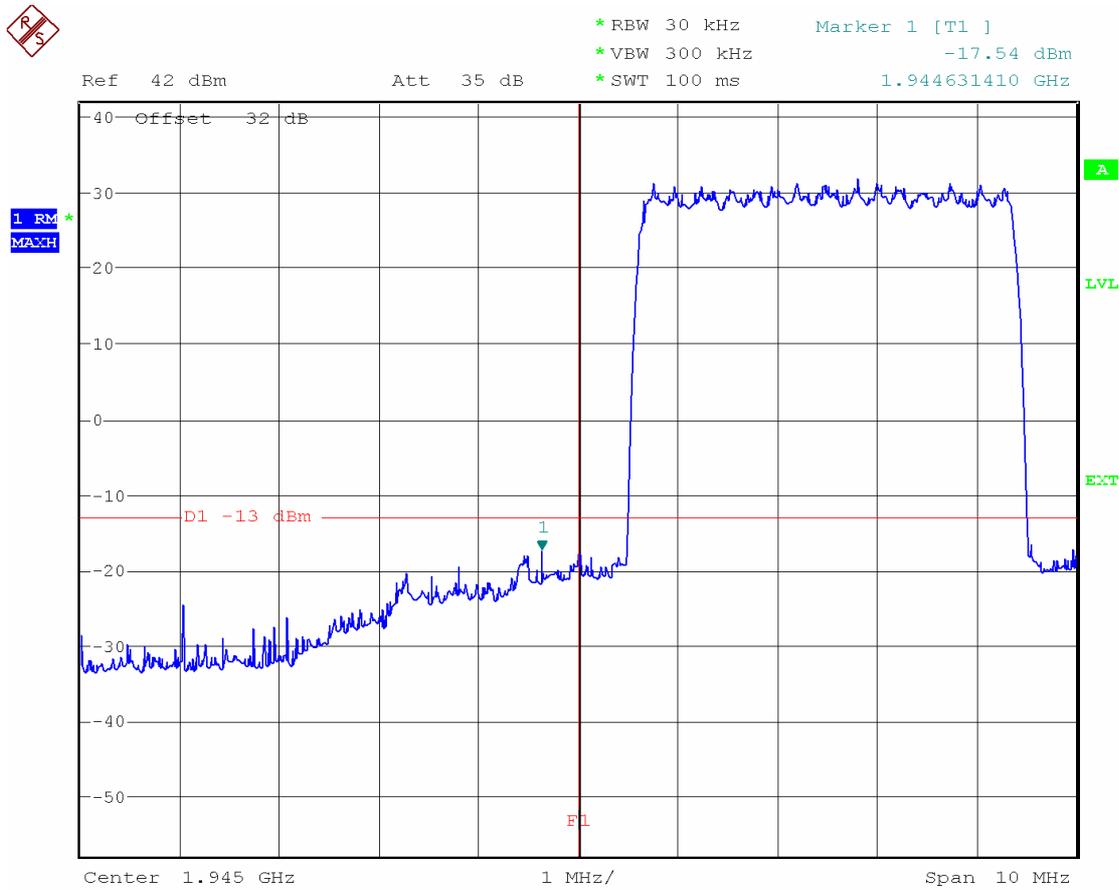
Block A, Right Edge (1945MHz)

Channel 225/250/275



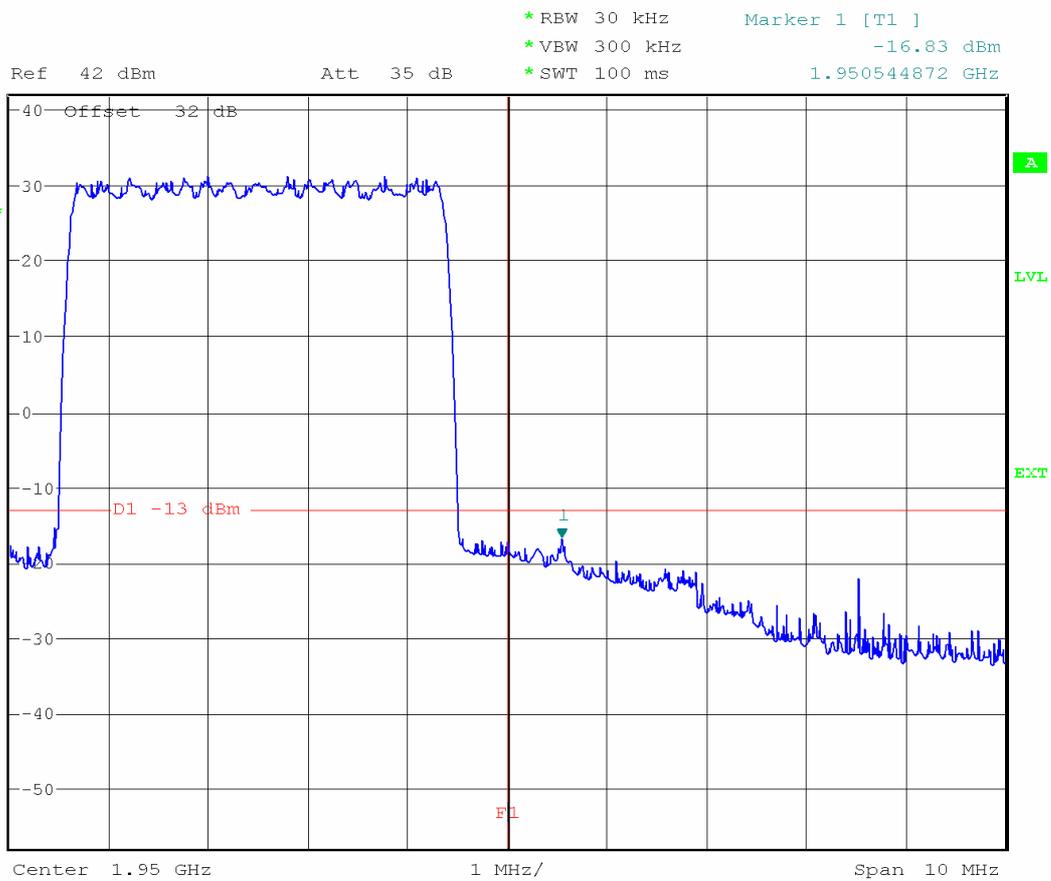
Block D, Left Edge (1945MHz)

Channel 325/350/375



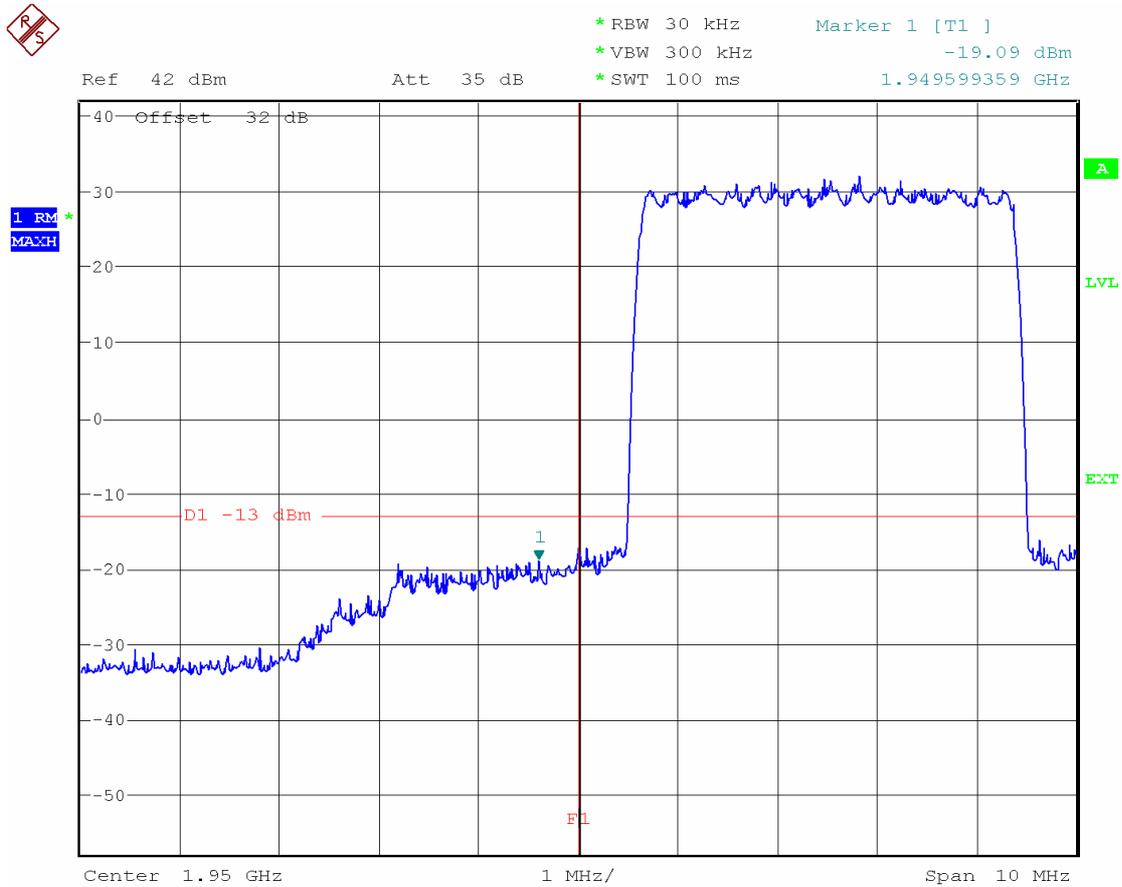
Block D, Right Edge (1950MHz)

Channel 325/350/375



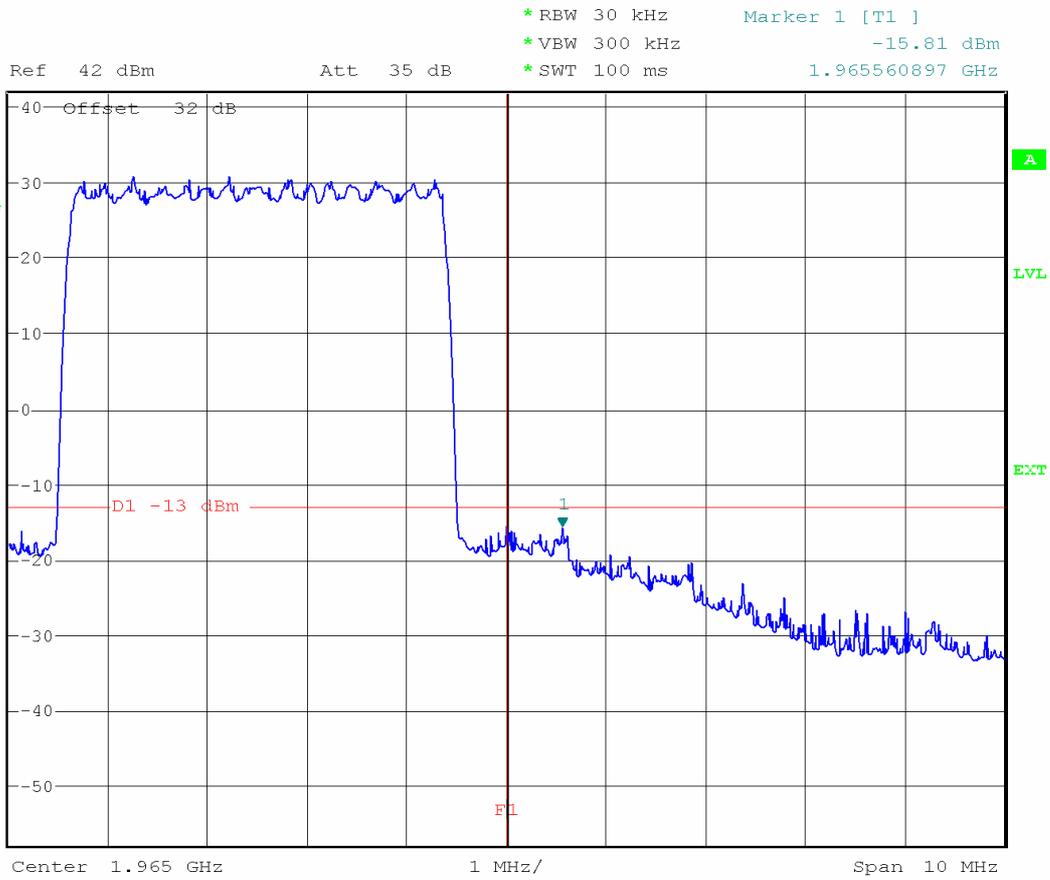
Block B, Left Edge (1950MHz)

Channel 425/450/475



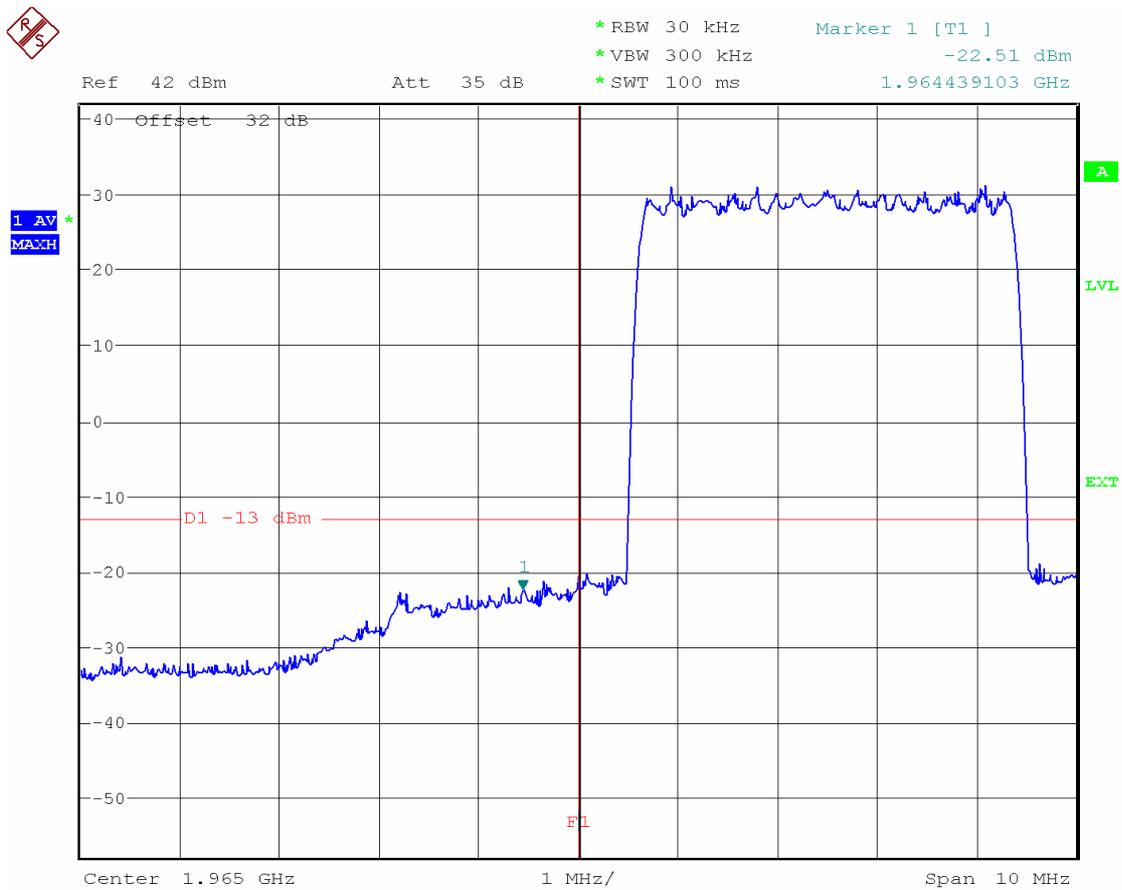
Block B, Right Edge (1965MHz)

Channel 625/650/675



Block E, Left Edge (1965MHz)

Channel 725/750/775



Block E, Right Edge (1970MHz)

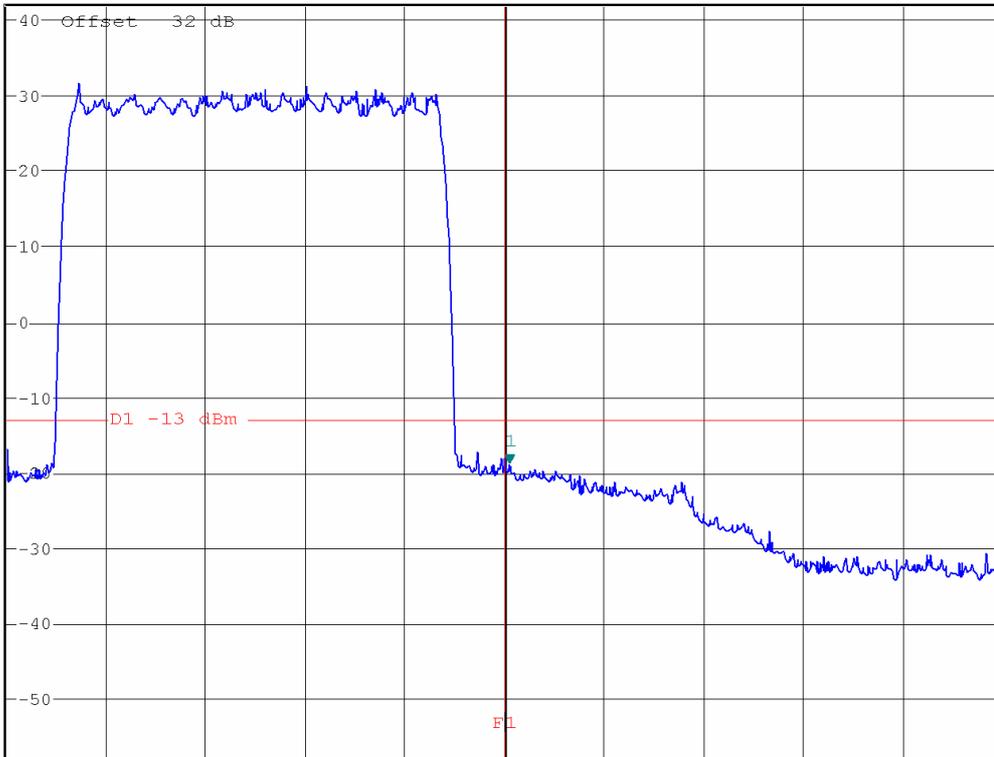
Channel 725/750/775



*RBW 30 kHz Marker 1 [T1]
*VBW 300 kHz -19.09 dBm
*SWT 100 ms 1.970048077 GHz

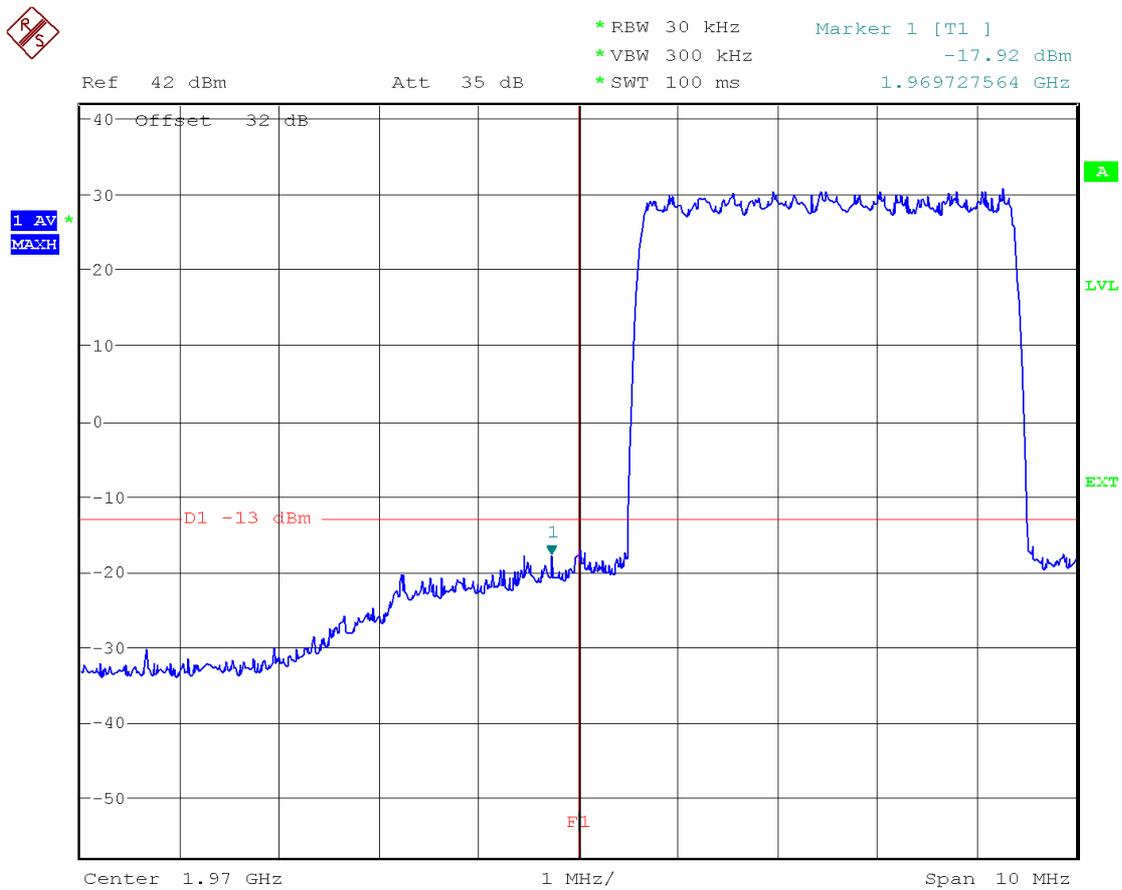
Ref 42 dBm

Att 35 dB



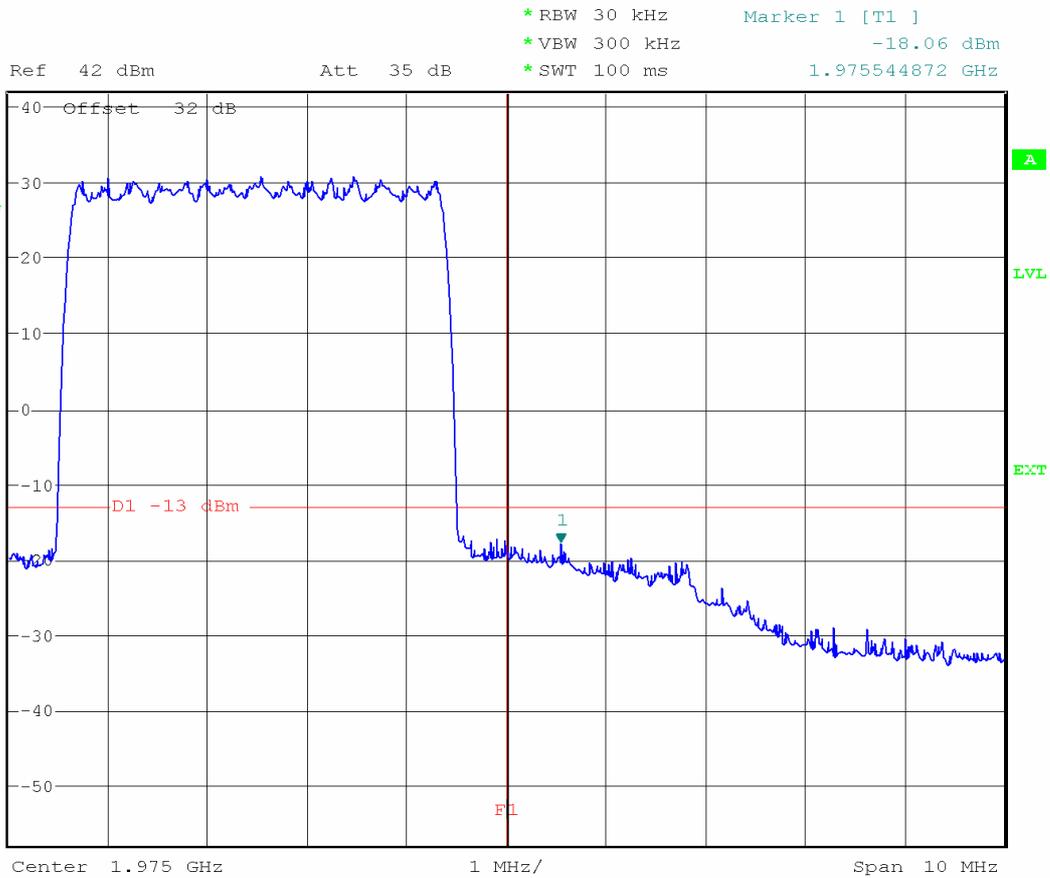
Block F, Left Edge (1970MHz)

Channel 825/850/875



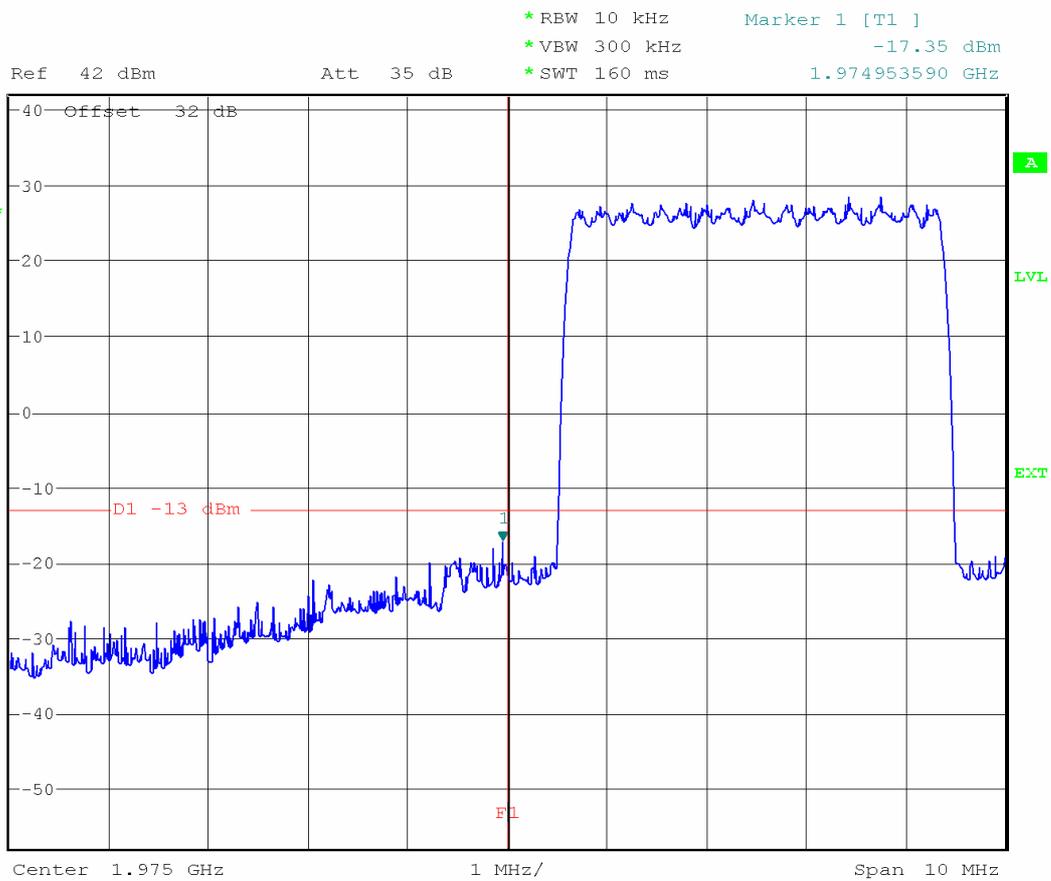
Block F, Right Edge (1975MHz)

Channel 825/850/875



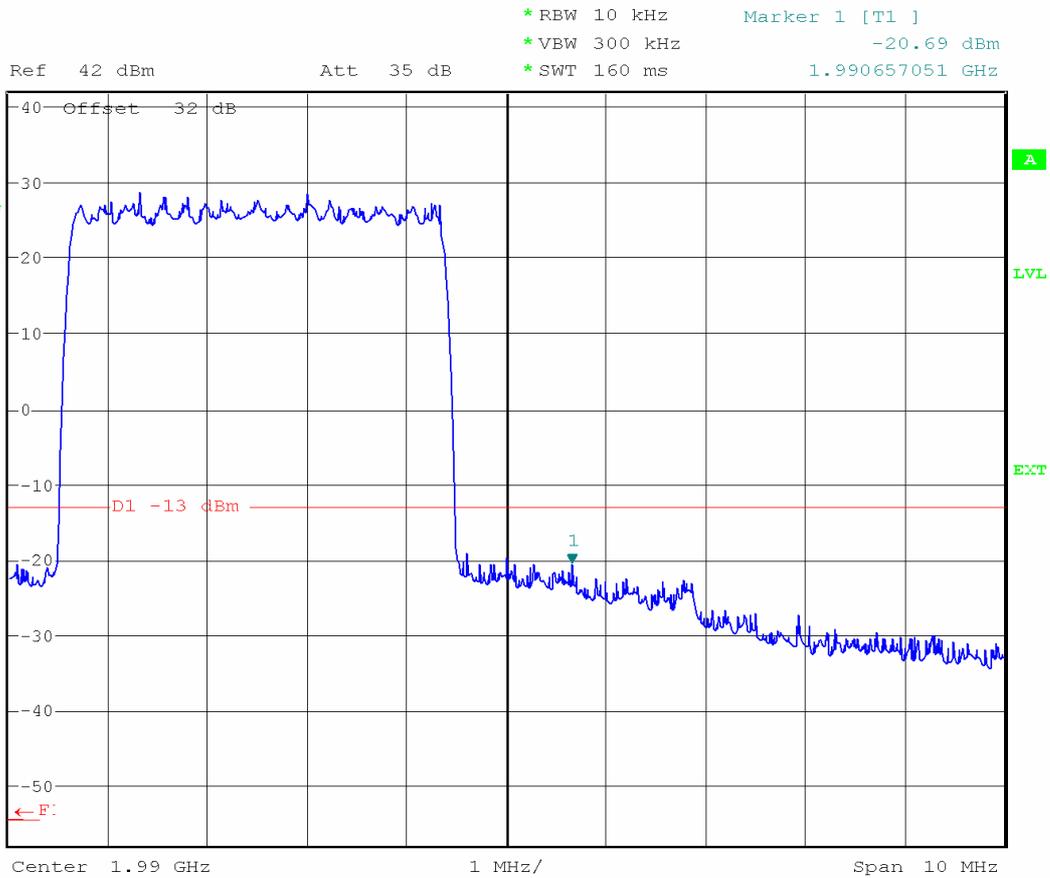
Block C, Left Edge (1975MHz)

Channel 925/950/975



Block C, Right Edge (1990MHz)

Channel 1125/1150/1175



Measurement Result Outband Band Edge

Channel 575/600/625

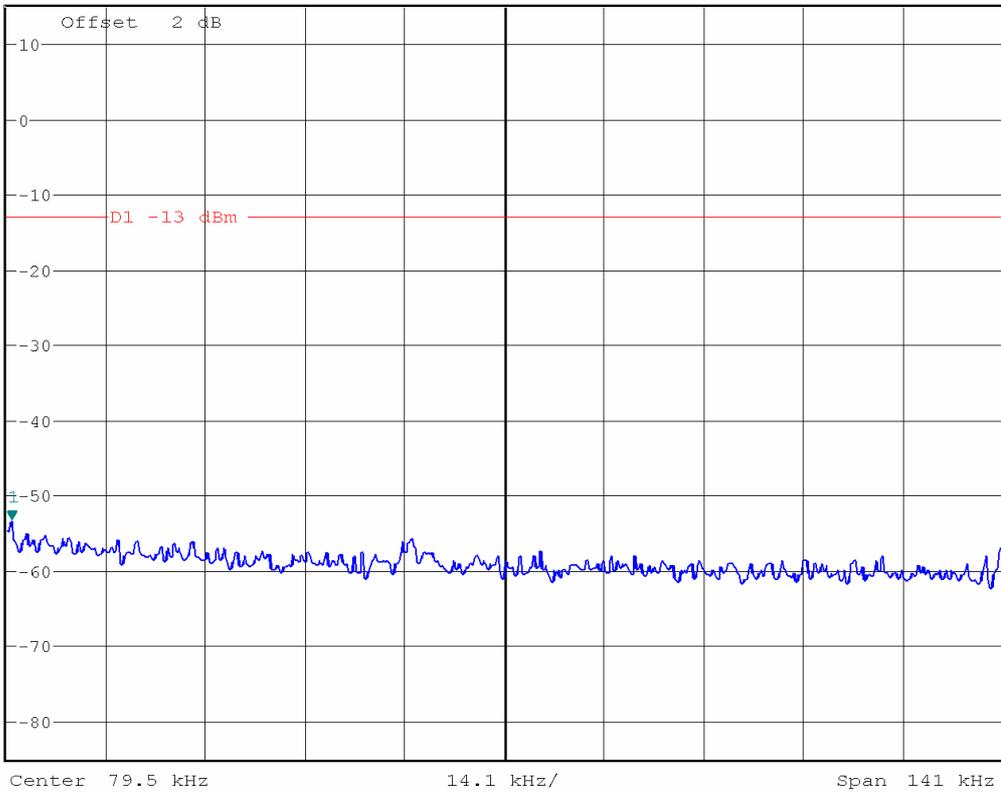


*RBW 1 kHz
VBW 3 kHz
SWT 145 ms

Marker 1 [T1]
-53.43 dBm
9.677884615 kHz

Ref 15 dBm

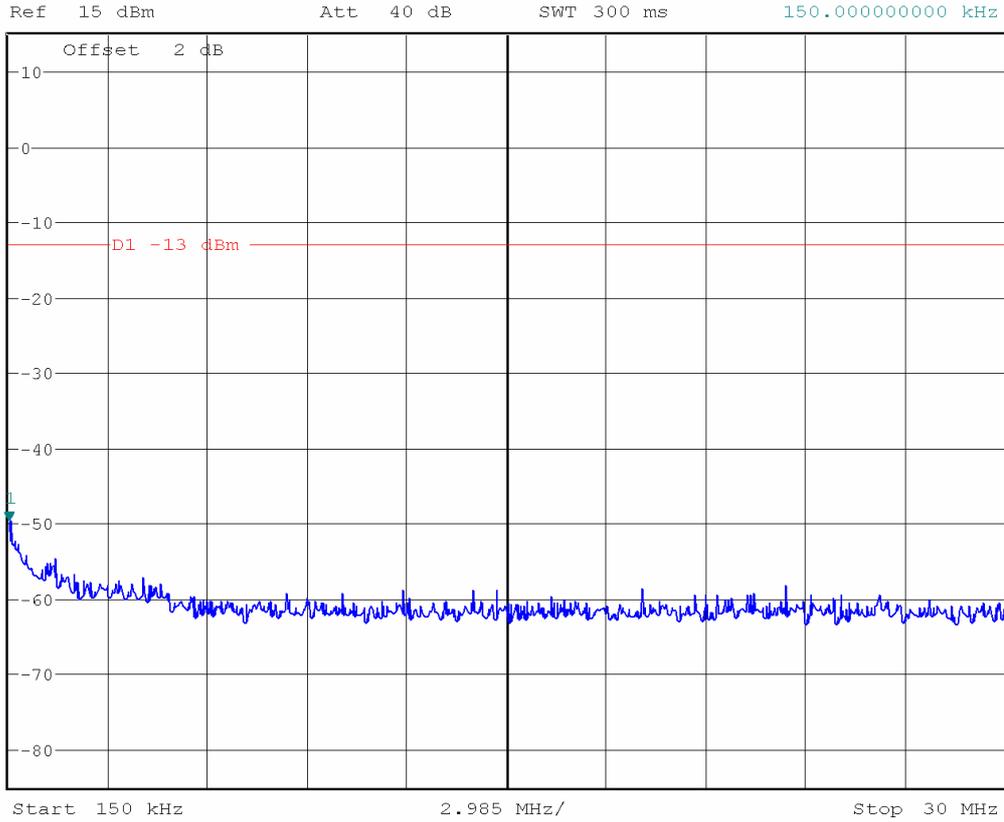
Att 40 dB





*RBW 10 kHz Marker 1 [T1]
VBW 30 kHz -49.75 dBm
SWT 300 ms 150.000000000 kHz

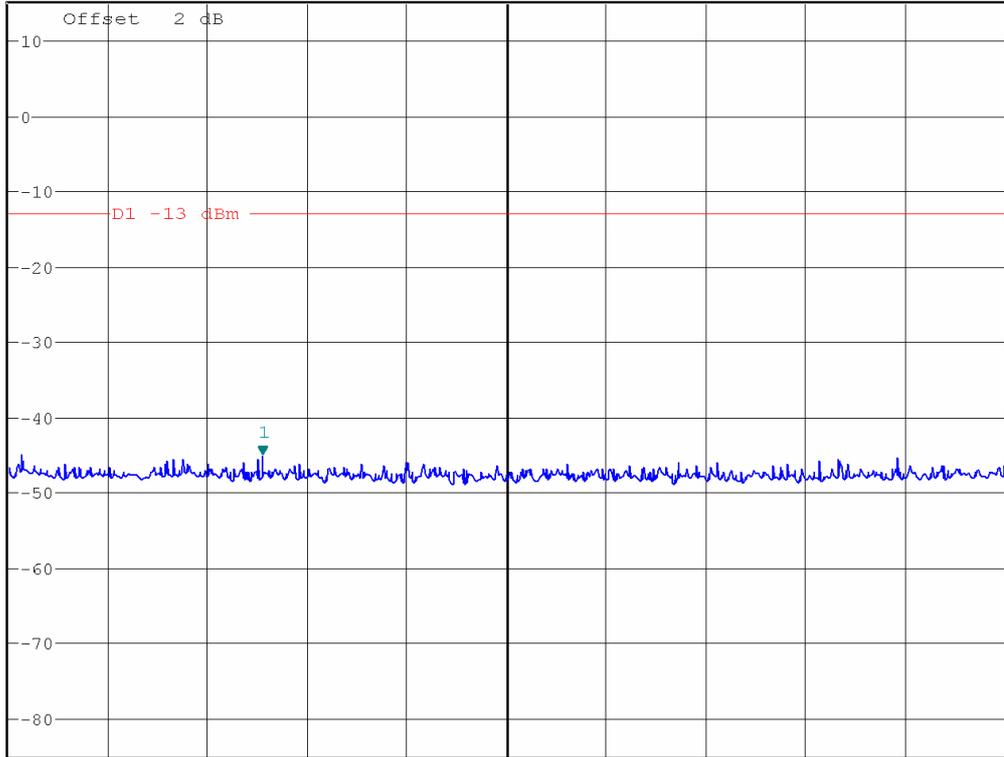
1 PK
MAXH

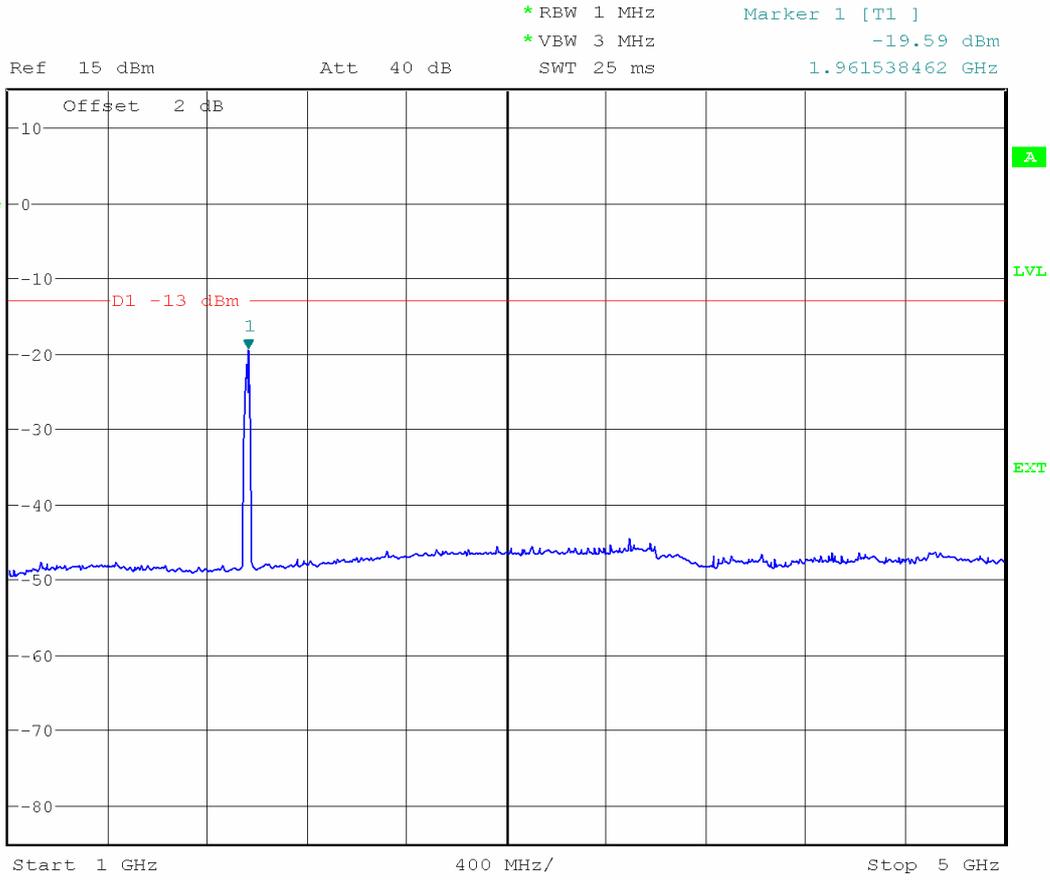




*RBW 100 kHz Marker 1 [T1]
VBW 300 kHz -45.28 dBm
SWT 100 ms 277.163461538 MHz

Ref 15 dBm Att 40 dB





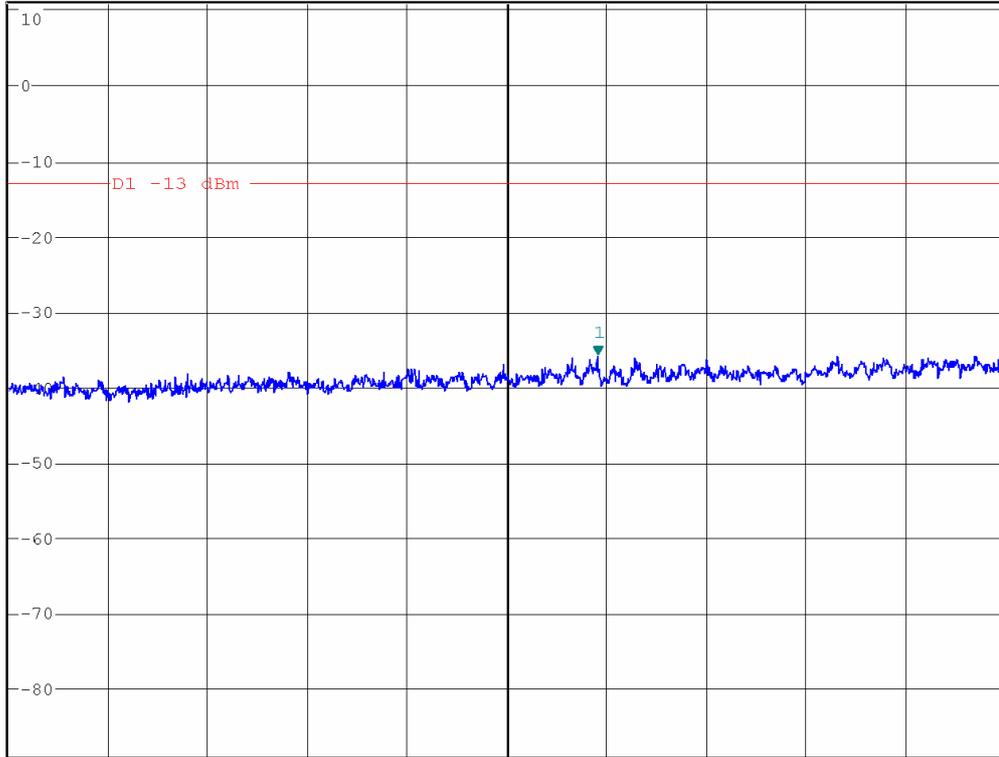


*RBW 1 MHz Marker 1 [T1]
VBW 3 MHz -35.90 dBm
SWT 90 ms 13.868000000 GHz

Ref 11 dBm

Att 40 dB

1 PK
MAXH



Start 5 GHz

1.5 GHz/

Stop 20 GHz

A

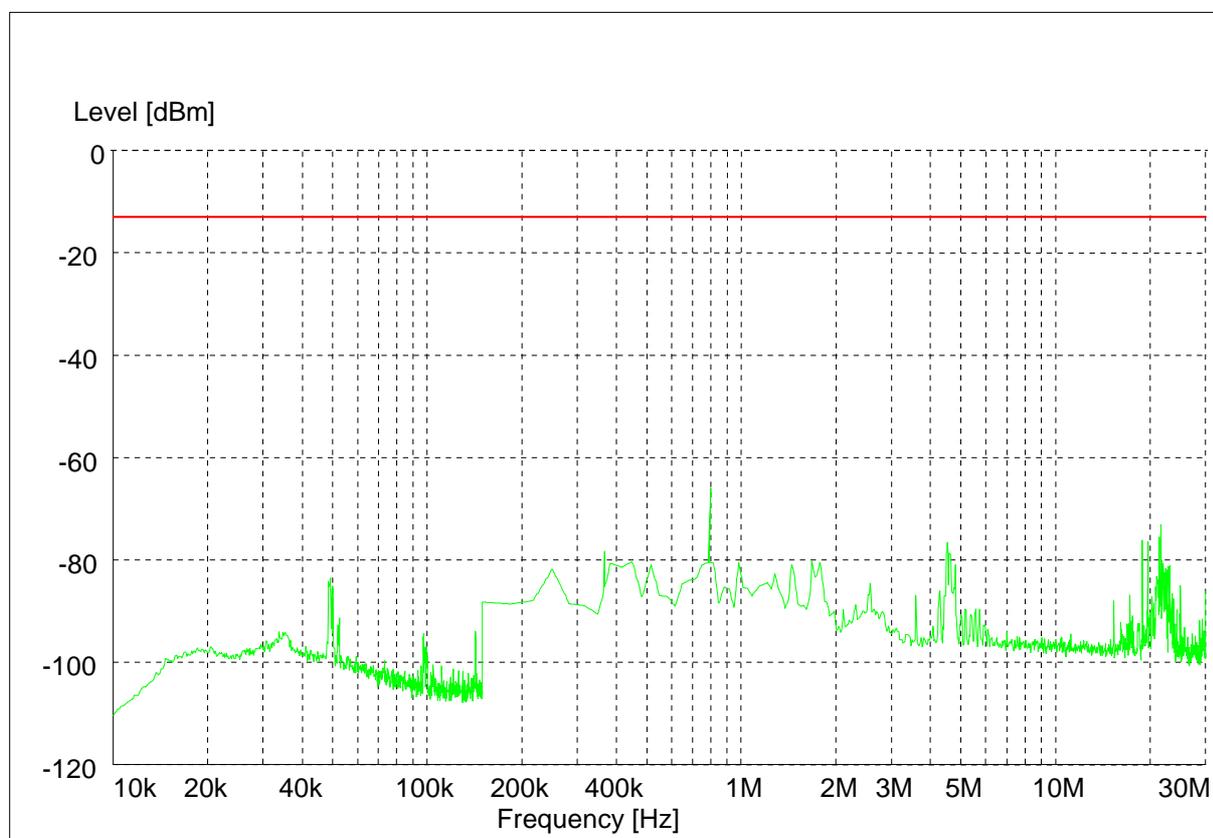
EXT

Appendix E
Field Strength of Spurious Radiation
Measurements
According to CFR 47 (FCC) part 2.1053

The Result of Spurious Radiation Test

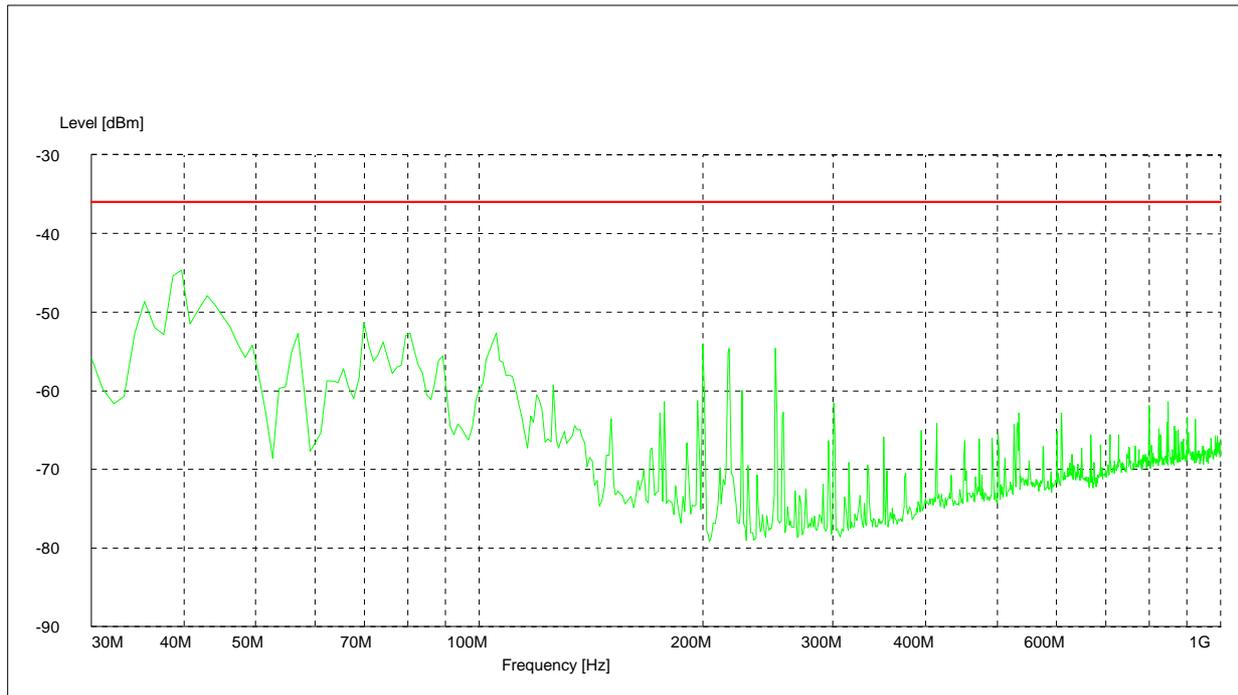
1. BTS3606 Test Result

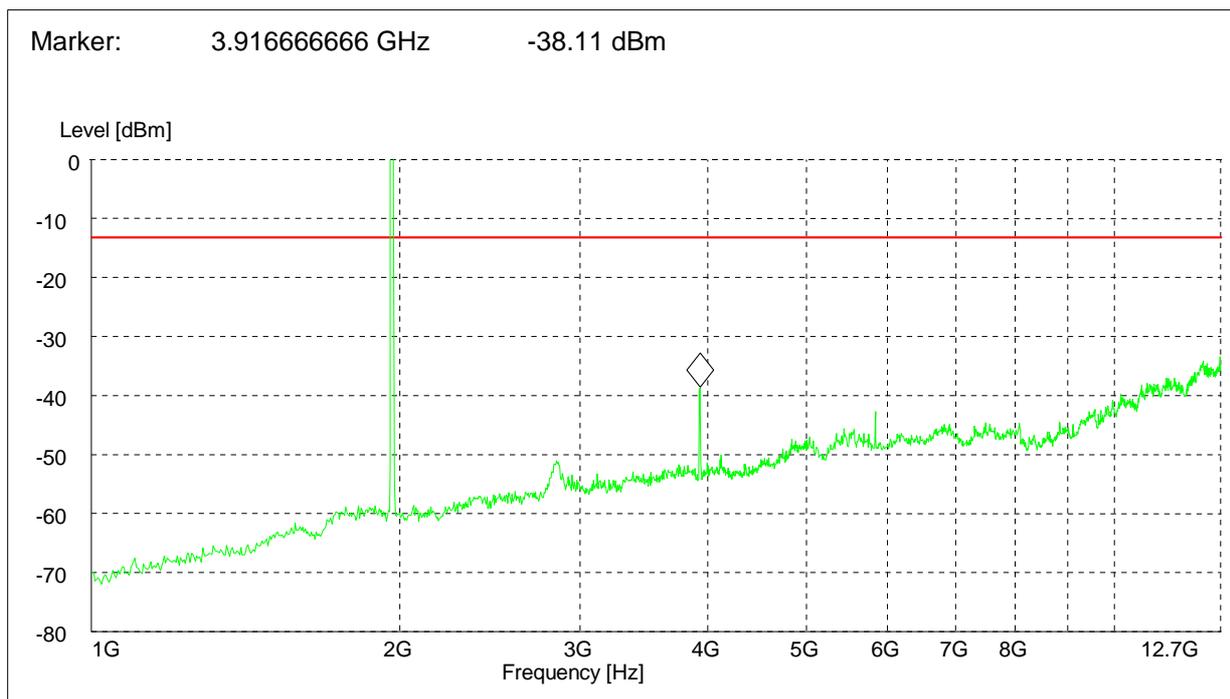
1 carriers have been work normally. BTS work at frequency No.600(1960MHz).



Test Report No.: SYBH(E)16022005

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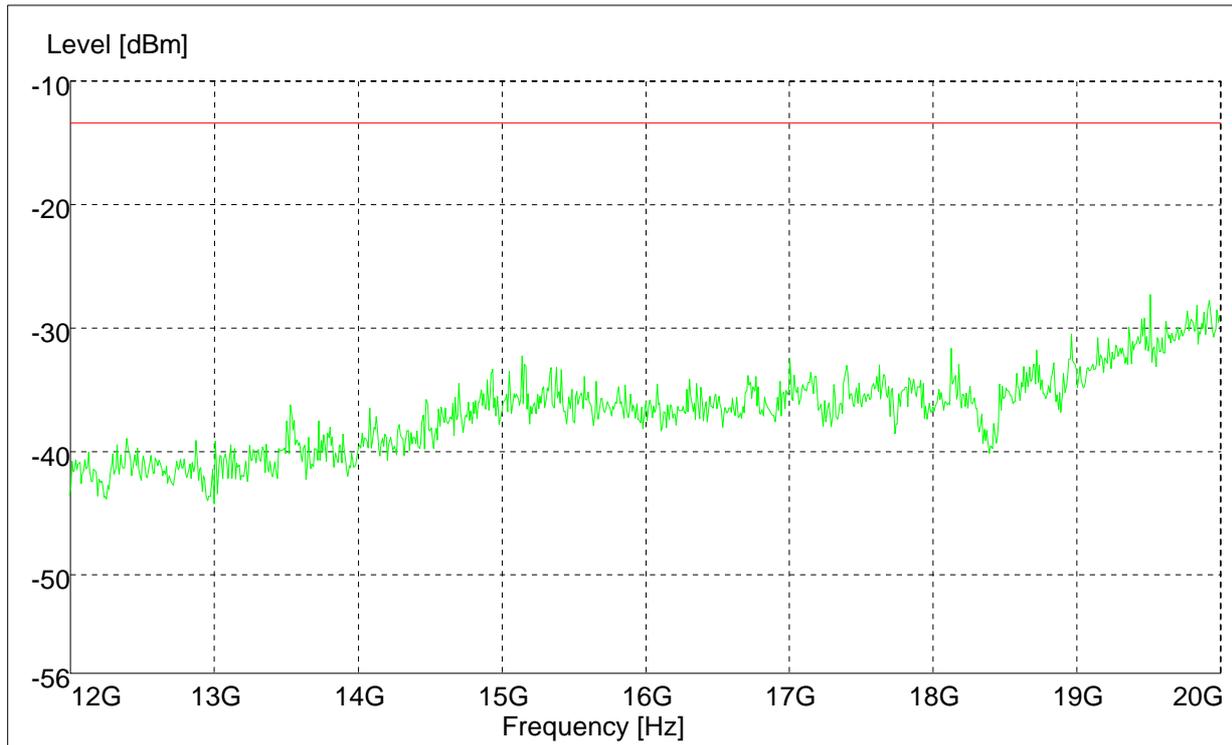




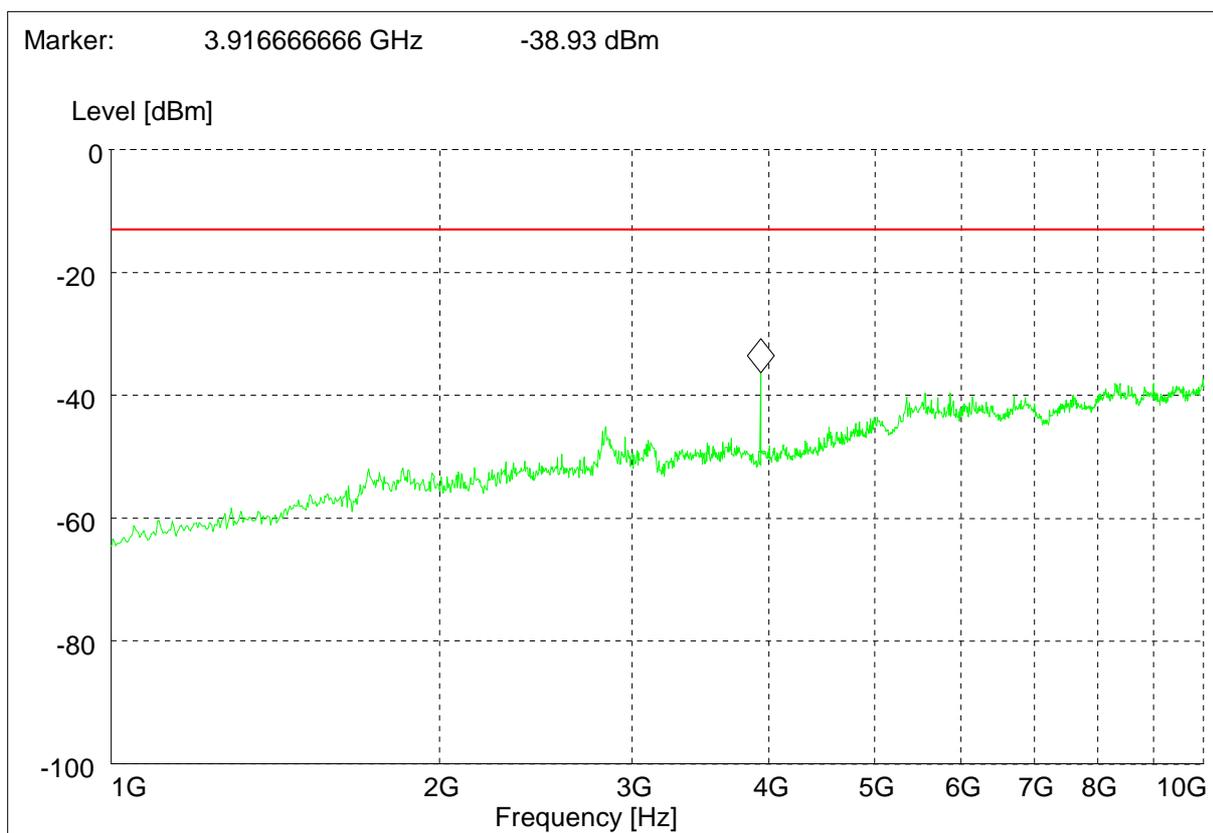
The point which exceeds the limit line is the carrier frequency.

Test Report No.: SYBH(E)16022005

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The Result of Substitute Test



END

Appendix F

Frequency Stability Measurements

According to CFR 47 (FCC) part 2.1055

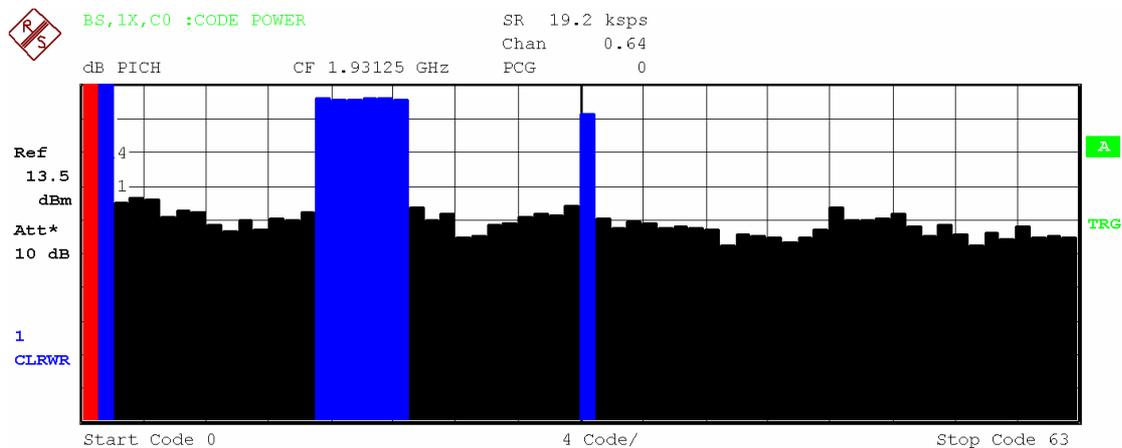
Frequency Stability versus Voltage

1. BTS3606

Frequency Stability versus Temperature

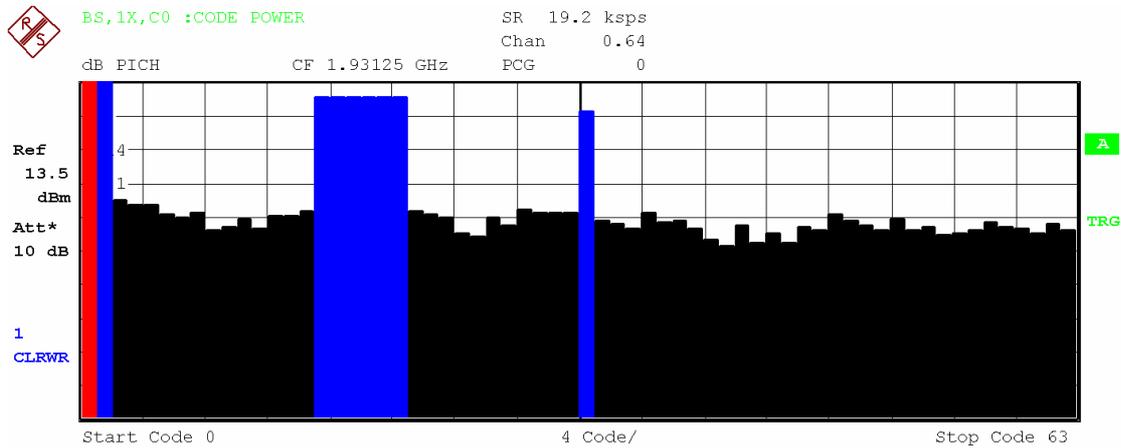
TRX1: Channel No. 1013(869.7MHz)

Temperature = - 30°C



RESULT SUMMARY TABLE		SR 19.2 kspss	EXT
CF 1.93125 GHz		Chan 0.64	
PCG 0			
RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	7.53 dBm	Carr Freq Error	-5.83 Hz
Pilot PWR	0.49 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98141	Chip Rate Error	-0.15 ppm
Composite EVM	13.76 %	Trg to Frame	459.190687 ns
Pk CDE (SF 64)	-30.68 dB	Active Channels	9
IQ Imbal/Offset	2.59/3.52 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 kspss	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	0.49 dBm
Symbol EVM	5.27 % rms	Symbol EVM	11.33 % Pk

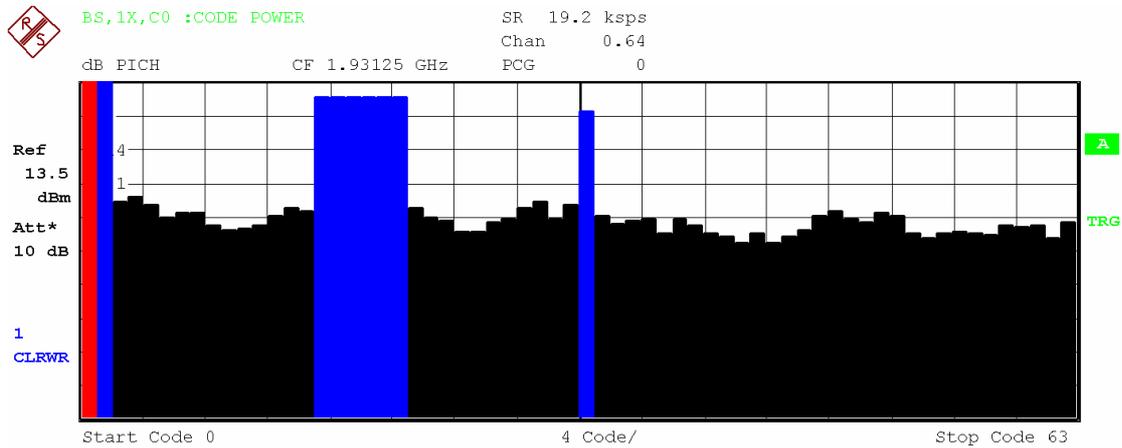
Temperature = - 20°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Ref 13.5 dBm	Total PWR 7.79 dBm	Carr Freq Error 9.85 Hz	
Att* 10 dB	Pilot PWR 0.82 dBm	Carr Freq Error 0.01 ppm	
	RHO 0.98326	Chip Rate Error 0.26 ppm	
	Composite EVM 13.05 %	Trg to Frame 458.371346 ns	
	Pk CDE (SF 64) -31.83 dB	Active Channels 9	
	IQ Imbal/Offset 1.13/3.87 %		
	CHANNEL RESULTS:	Modulation BPSK	
1 CLRWR	Symbol Rate 19.2 ksps	Timing Offset 0.00 ns	
	Channel.SF 0.64	Phase Offset 0.00 mrad	
	Channel Power Rel 0.00 dB	Channel Power Abs 0.82 dBm	
	Symbol EVM 5.13 % rms	Symbol EVM 8.75 % Pk	

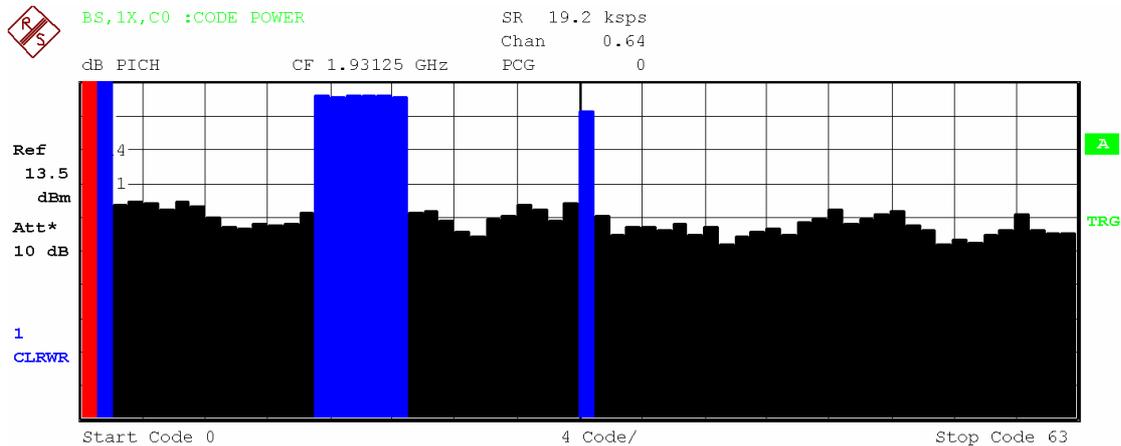
Temperature = - 10°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Ref	Total PWR 7.70 dBm	Carr Freq Error 20.80 Hz	
13.5 dBm	Pilot PWR 0.70 dBm	Carr Freq Error 0.01 ppm	B
	RHO 0.98261	Chip Rate Error -0.21 ppm	
Att* 10 dB	Composite EVM 13.30 %	Trg to Frame 459.173691 ns	
	Pk CDE (SF 64) -31.17 dB	Active Channels 9	
	IQ Imbal/Offset 1.27/3.98 %		
	CHANNEL RESULTS:	Modulation BPSK	
1 CLRWR	Symbol Rate 19.2 ksps	Timing Offset 0.00 ns	
	Channel.SF 0.64	Phase Offset 0.00 mrad	
	Channel Power Rel 0.00 dB	Channel Power Abs 0.70 dBm	
	Symbol EVM 4.51 % rms	Symbol EVM 7.37 % Pk	

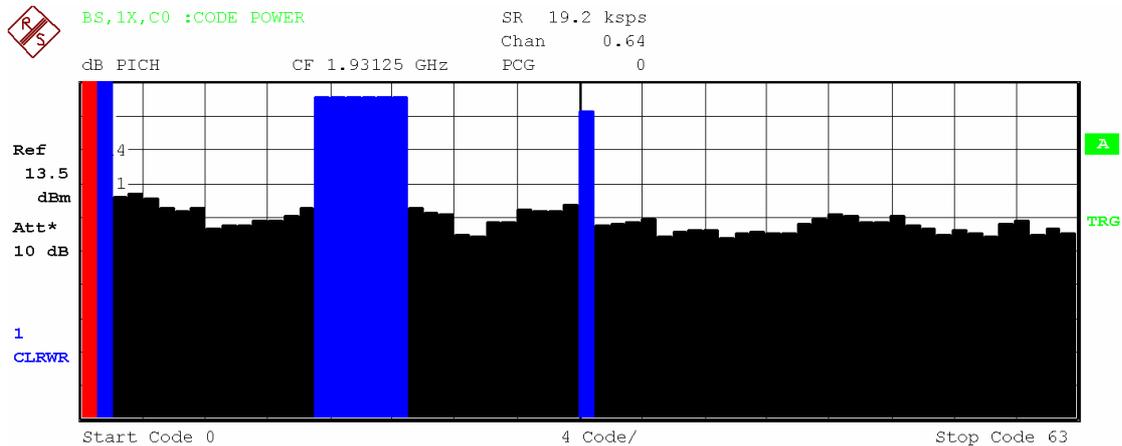
Temperature = 0°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64
CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Ref	Total PWR 8.02 dBm	Carr Freq Error -1.27 Hz	
13.5 dBm	Pilot PWR 0.94 dBm	Carr Freq Error -0.00 ppm	
	RHO 0.98332	Chip Rate Error 0.00 ppm	
Att*	Composite EVM 13.02 %	Trg to Frame 458.729659 ns	
10 dB	Pk CDE (SF 64) -32.14 dB	Active Channels 9	
	IQ Imbal/Offset 1.08/3.47 %		
	CHANNEL RESULTS:	Modulation BPSK	
1	Symbol Rate 19.2 ksps	Timing Offset 0.00 ns	
CLRWR	Channel.SF 0.64	Phase Offset 0.00 mrad	
	Channel Power Rel 0.00 dB	Channel Power Abs 0.94 dBm	
	Symbol EVM 3.47 % rms	Symbol EVM 6.23 % Pk	

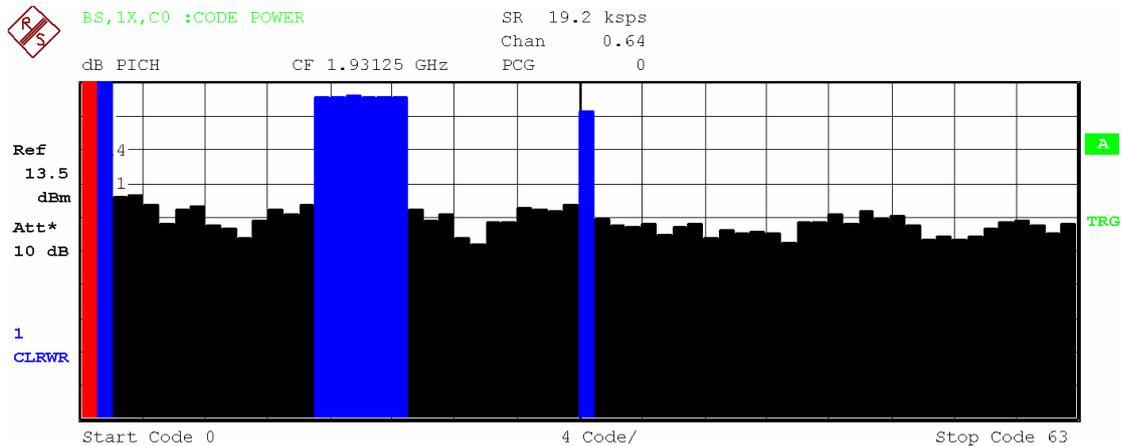
Temperature = 10°C



RESULT SUMMARY TABLE
SR 19.2 kbps
Chan 0.64
CF 1.93125 GHz
PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	8.11 dBm	Carr Freq Error	192.24 mHz
Pilot PWR	1.11 dBm	Carr Freq Error	0.00 ppm
RHO	0.98228	Chip Rate Error	-0.07 ppm
Composite EVM	13.43 %	Trg to Frame	458.924546 ns
Pk CDE (SF 64)	-30.54 dB	Active Channels	9
IQ Imbal/Offset	1.99/3.15 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.20 % rms	Channel Power Abs	1.11 dBm
		Symbol EVM	7.40 % Pk

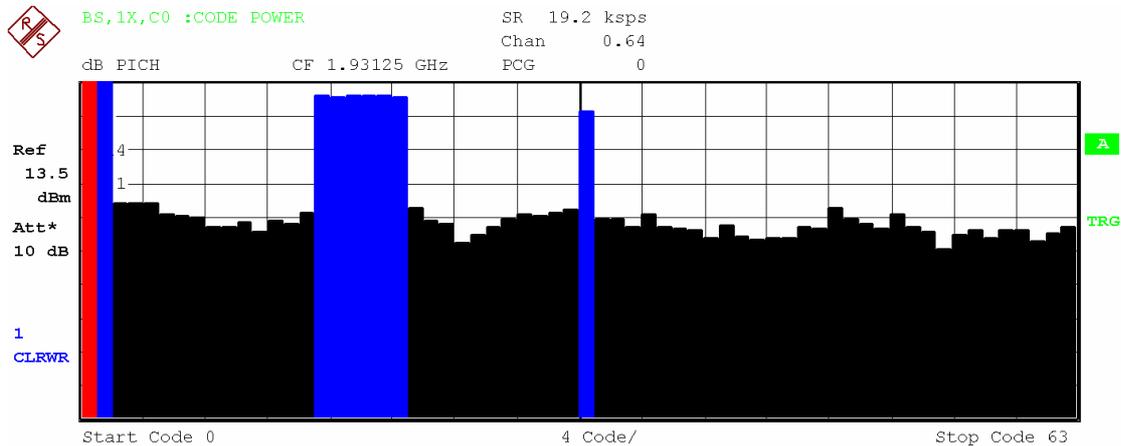
Temperature = 20°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	8.34 dBm	Carr Freq Error	-10.91 Hz
Pilot PWR	1.32 dBm	Carr Freq Error	-0.01 ppm
RHO	0.98252	Chip Rate Error	-0.09 ppm
Composite EVM	13.34 %	Trg to Frame	458.614153 ns
Pk CDE (SF 64)	-30.67 dB	Active Channels	9
IQ Imbal/Offset	2.14/3.55 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps	Modulation	BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.65 % rms	Channel Power Abs	1.32 dBm
		Symbol EVM	9.25 % Pk

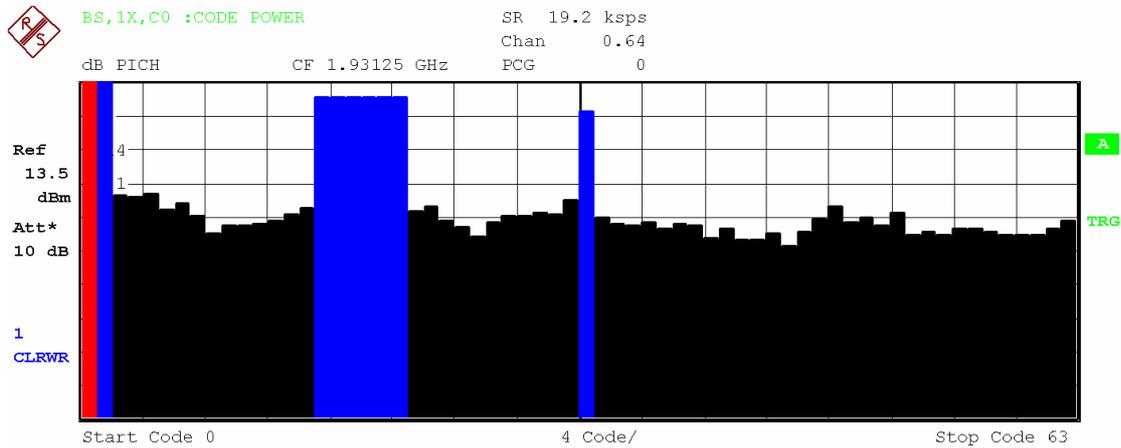
Temperature = 30°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Ref 13.5 dBm	Total PWR 8.36 dBm	Carr Freq Error 31.34 Hz	
Att* 10 dB	Pilot PWR 1.27 dBm	Carr Freq Error 0.02 ppm	
	RHO 0.98273	Chip Rate Error 0.11 ppm	
	Composite EVM 13.26 %	Trg to Frame 458.276133 ns	
	Pk CDE (SF 64) -30.78 dB	Active Channels 9	
	IQ Imbal/Offset 2.25/3.64 %		
	CHANNEL RESULTS:	Modulation BPSK	
1 CLRWR	Symbol Rate 19.2 ksps	Timing Offset 0.00 ns	
	Channel.SF 0.64	Phase Offset 0.00 mrad	
	Channel Power Rel 0.00 dB	Channel Power Abs 1.27 dBm	
	Symbol EVM 6.05 % rms	Symbol EVM 9.55 % Pk	

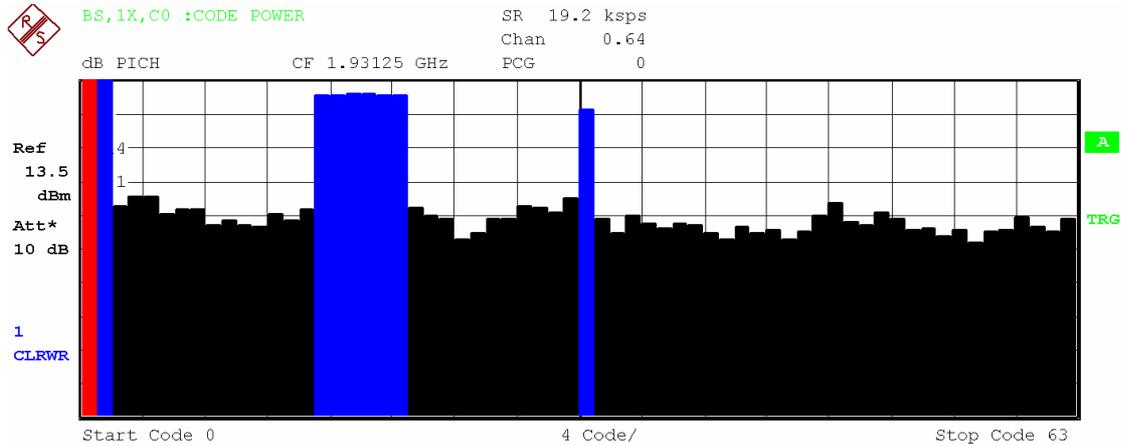
Temperature = 40°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	8.31 dBm	Carr Freq Error	-11.63 Hz
Pilot PWR	1.29 dBm	Carr Freq Error	-0.01 ppm
RHO	0.98201	Chip Rate Error	0.24 ppm
Composite EVM	13.54 %	Trg to Frame	463.409322 ns
Pk CDE (SF 64)	-30.53 dB	Active Channels	9
IQ Imbal/Offset	0.86/3.97 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	5.48 % rms	Channel Power Abs	1.29 dBm
		Symbol EVM	11.46 % Pk

Temperature = 50°C



RESULT SUMMARY TABLE SR 19.2 ksps EXT
Chan 0.64
CF 1.93125 GHz PCG 0

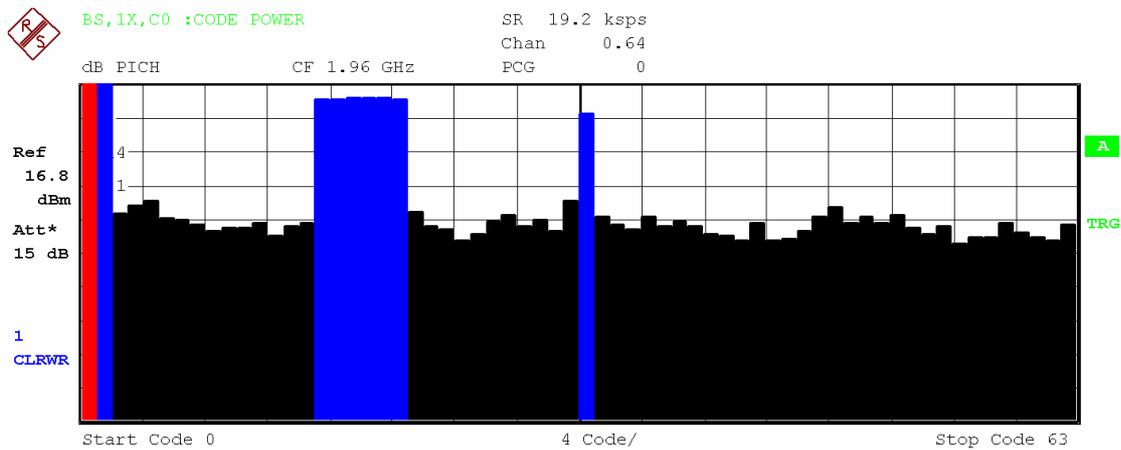
RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	8.67 dBm	Carr Freq Error	-1.42 Hz
Pilot PWR	1.61 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98194	Chip Rate Error	0.24 ppm
Composite EVM	13.58 %	Trg to Frame	457.763662 ns
Pk CDE (SF 64)	-31.52 dB	Active Channels	9
IQ Imbal/Offset	2.03/3.60 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksps	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	1.61 dBm
Symbol EVM	5.78 % rms	Symbol EVM	10.02 % Pk

Test Report No.: SYBH(E)16022005

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TRX2: Channel No. 600(1960.00MHz)

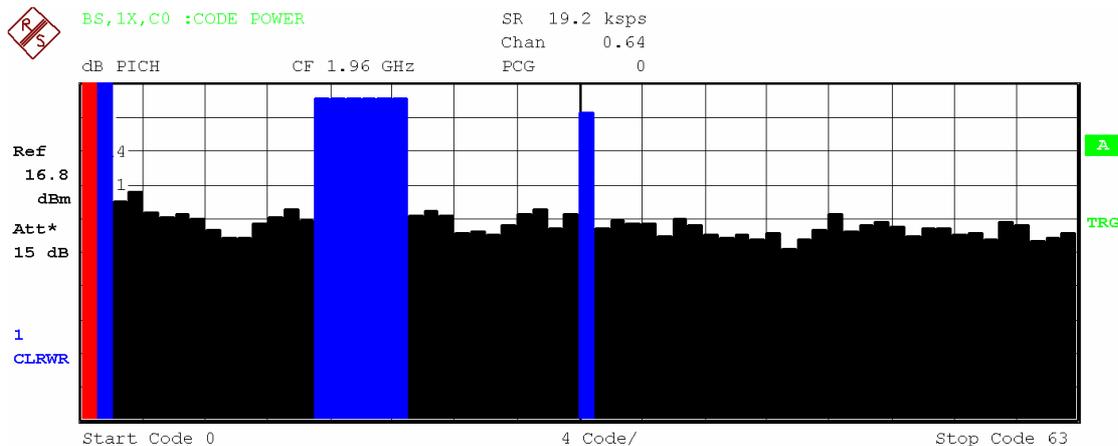
Temperature = - 30°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64
CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.56 dBm	Carr Freq Error	-6.50 Hz
Pilot PWR	3.52 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98430	Chip Rate Error	-0.57 ppm
Composite EVM	12.63 %	Trg to Frame	361.978522 ns
Pk CDE (SF 64)	-31.30 dB	Active Channels	9
IQ Imbal/Offset	1.17/4.22 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksps	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	3.52 dBm
Symbol EVM	3.83 % rms	Symbol EVM	8.21 % Pk

Temperature = - 20°C



Start Code 0 4 Code/ Stop Code 63

RESULT SUMMARY TABLE

SR 19.2 ksps
Chan 0.64
PCG 0

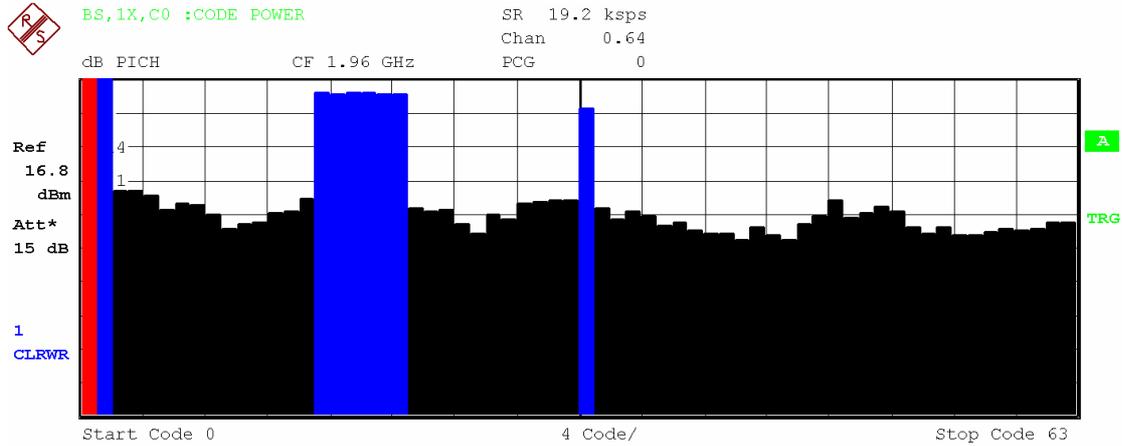
EXT

CF 1.96 GHz

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.60 dBm	Carr Freq Error	-10.72 Hz
Pilot PWR	3.63 dBm	Carr Freq Error	-0.01 ppm
RHO	0.98284	Chip Rate Error	-0.04 ppm
Composite EVM	13.22 %	Trg to Frame	360.617832 ns
Pk CDE (SF 64)	-29.76 dB	Active Channels	9
IQ Imbal/Offset	1.42/4.02 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	5.67 % rms	Channel Power Abs	3.63 dBm
		Symbol EVM	10.31 % Pk

B

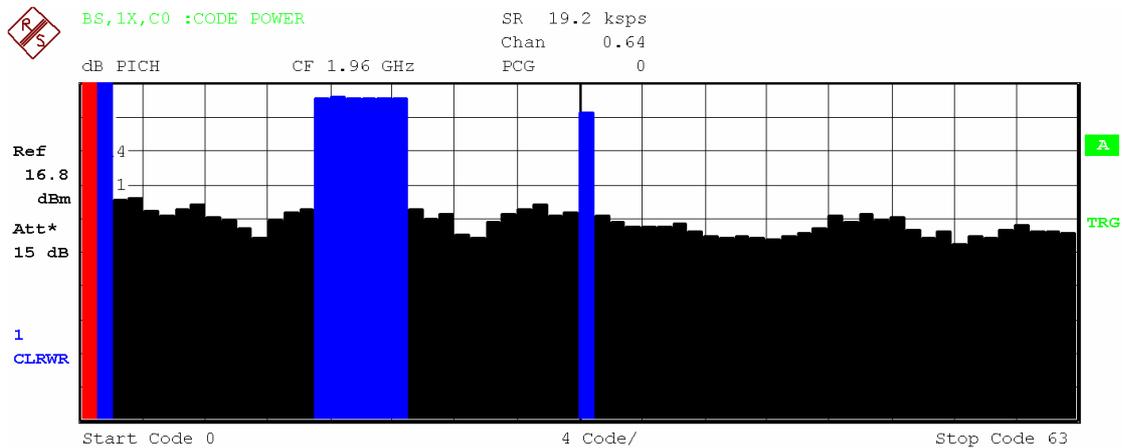
Temperature = - 10°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64
CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.67 dBm	Carr Freq Error	-11.15 Hz
Pilot PWR	3.60 dBm	Carr Freq Error	-0.01 ppm
RHO	0.98108	Chip Rate Error	-0.04 ppm
Composite EVM	13.89 %	Trg to Frame	360.180820 ns
Pk CDE (SF 64)	-30.54 dB	Active Channels	9
IQ Imbal/Offset	1.32/3.20 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksps	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	3.60 dBm
Symbol EVM	4.64 % rms	Symbol EVM	7.90 % Pk

Temperature = 0°C



RESULT SUMMARY TABLE

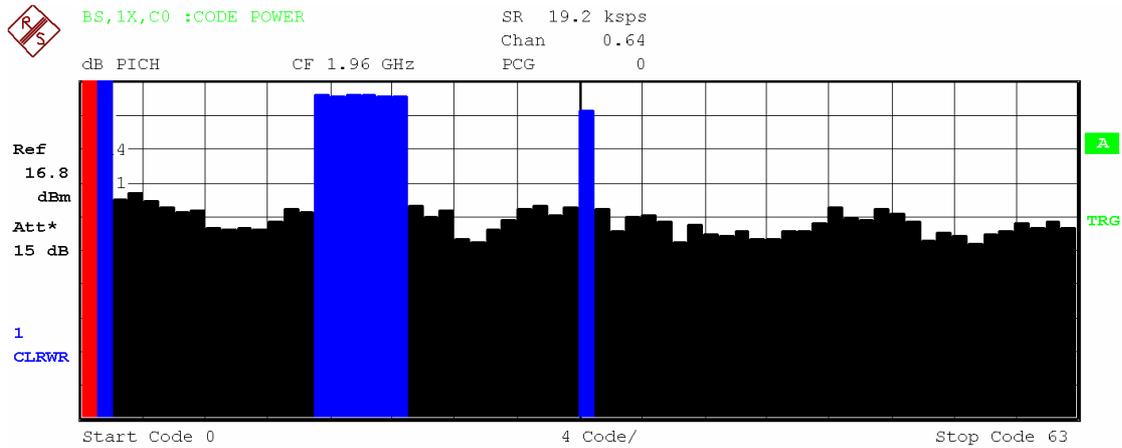
SR 19.2 kbps
Chan 0.64
PCG 0

EXT

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.82 dBm	Carr Freq Error	-3.09 Hz
Pilot PWR	3.78 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98183	Chip Rate Error	0.01 ppm
Composite EVM	13.60 %	Trg to Frame	360.464867 ns
Pk CDE (SF 64)	-31.21 dB	Active Channels	9
IQ Imbal/Offset	1.28/3.98 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 kbps	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	3.78 dBm
Symbol EVM	5.36 % rms	Symbol EVM	7.69 % Pk

B

Temperature = 10°C



RESULT SUMMARY TABLE

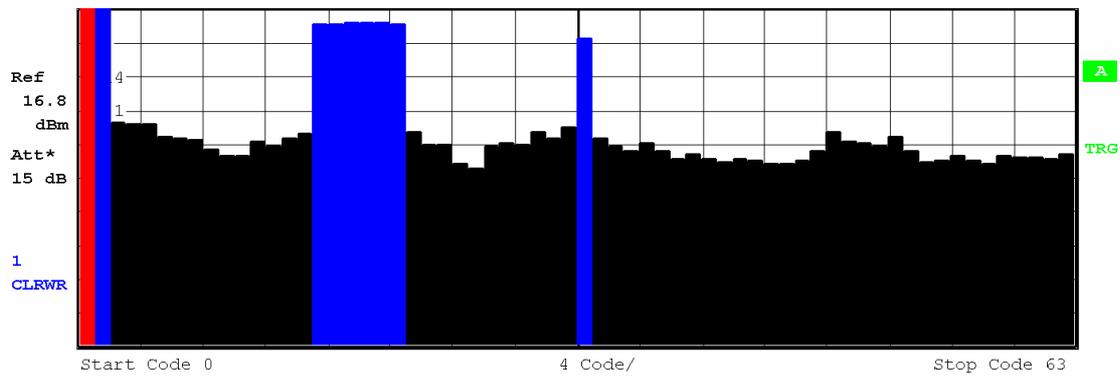
SR	19.2 ksp/s	EXT
Chan	0.64	
CF	1.96 GHz	
PCG	0	

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.83 dBm	Carr Freq Error	-6.22 Hz
Pilot PWR	3.76 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98284	Chip Rate Error	0.13 ppm
Composite EVM	13.22 %	Trg to Frame	360.123096 ns
Pk CDE (SF 64)	-30.47 dB	Active Channels	9
IQ Imbal/Offset	1.86/3.85 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksp/s		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.27 % rms	Channel Power Abs	3.76 dBm
		Symbol EVM	7.22 % Pk

Temperature = 20°C



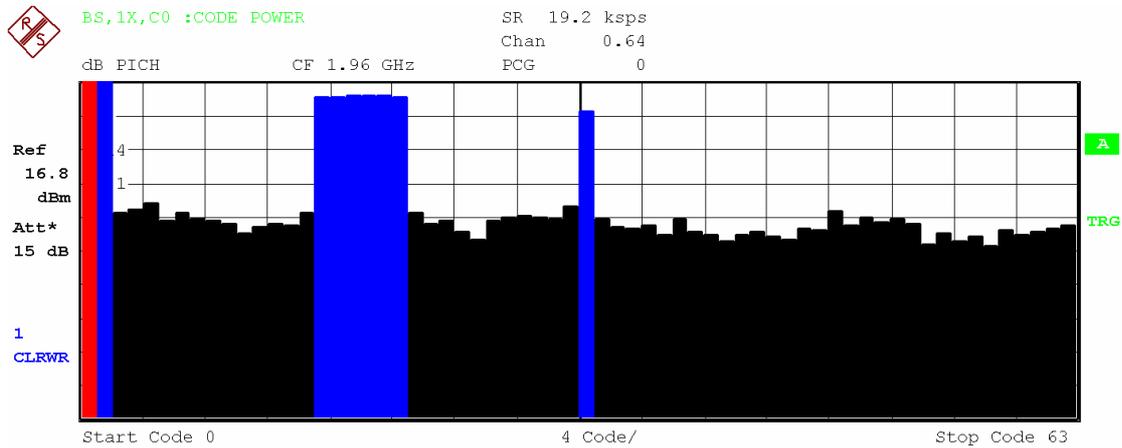
BS, 1X, C0 :CODE POWER SR 19.2 ksp/s
Chan 0.64
CF 1.96 GHz PCG 0



RESULT SUMMARY TABLE SR 19.2 ksp/s
Chan 0.64
CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.75 dBm	Carr Freq Error	-10.81 Hz
Pilot PWR	3.69 dBm	Carr Freq Error	-0.01 ppm
RHO	0.98092	Chip Rate Error	-0.05 ppm
Composite EVM	13.96 %	Trg to Frame	360.101637 ns
Pk CDE (SF 64)	-30.89 dB	Active Channels	9
IQ Imbal/Offset	1.13/4.19 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksp/s	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	3.69 dBm
Symbol EVM	5.16 % rms	Symbol EVM	11.53 % Pk

Temperature = 30°C



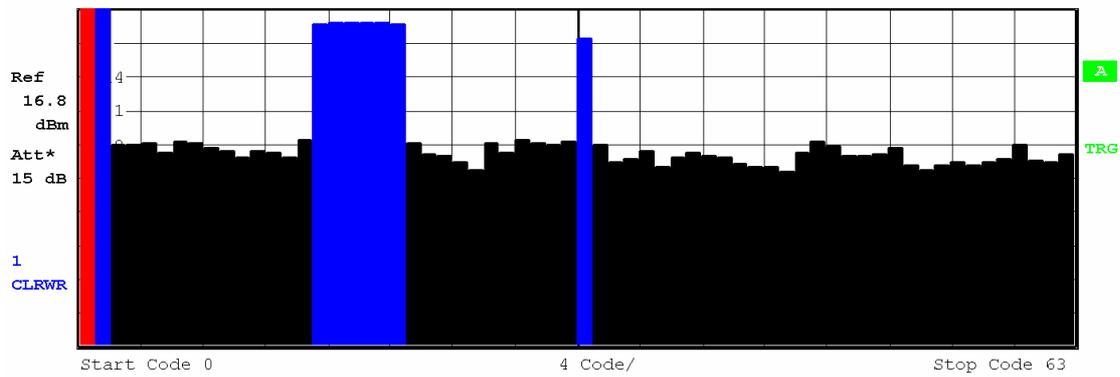
RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	11.03 dBm	Carr Freq Error	6.75 Hz
Pilot PWR	4.01 dBm	Carr Freq Error	0.00 ppm
RHO	0.98019	Chip Rate Error	-0.39 ppm
Composite EVM	14.28 %	Trg to Frame	360.852397 ns
Pk CDE (SF 64)	-27.62 dB	Active Channels	9
IQ Imbal/Offset	0.69/3.64 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps	Modulation	BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	9.28 % rms	Channel Power Abs	4.01 dBm
		Symbol EVM	21.53 % Pk

Temperature = 40°C



BS, 1X, C0 :CODE POWER SR 19.2 ksp/s
Chan 0.64
CF 1.96 GHz PCG 0

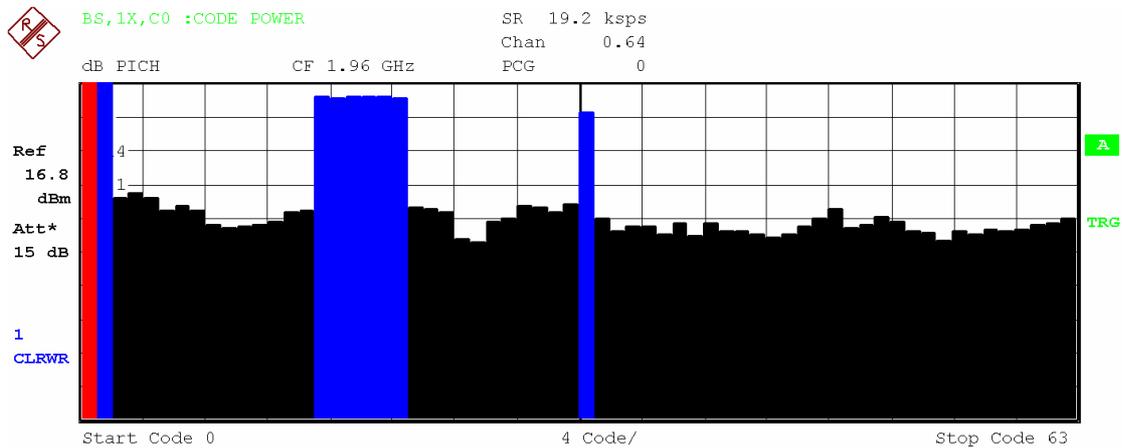


RESULT SUMMARY TABLE SR 19.2 ksp/s
Chan 0.64
CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.91 dBm	Carr Freq Error	-13.49 Hz
Pilot PWR	3.86 dBm	Carr Freq Error	-0.01 ppm
RHO	0.98611	Chip Rate Error	-0.27 ppm
Composite EVM	11.87 %	Trg to Frame	360.676950 ns
Ek CDE (SF 64)	-33.04 dB	Active Channels	9
IQ Imbal/Offset	1.29/3.81 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksp/s	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	3.86 dBm
Symbol EVM	4.98 % rms	Symbol EVM	7.75 % Pk

B

Temperature = 50°C



RESULT SUMMARY TABLE

SR 19.2 ksps
Chan 0.64
CF 1.96 GHz PCG 0

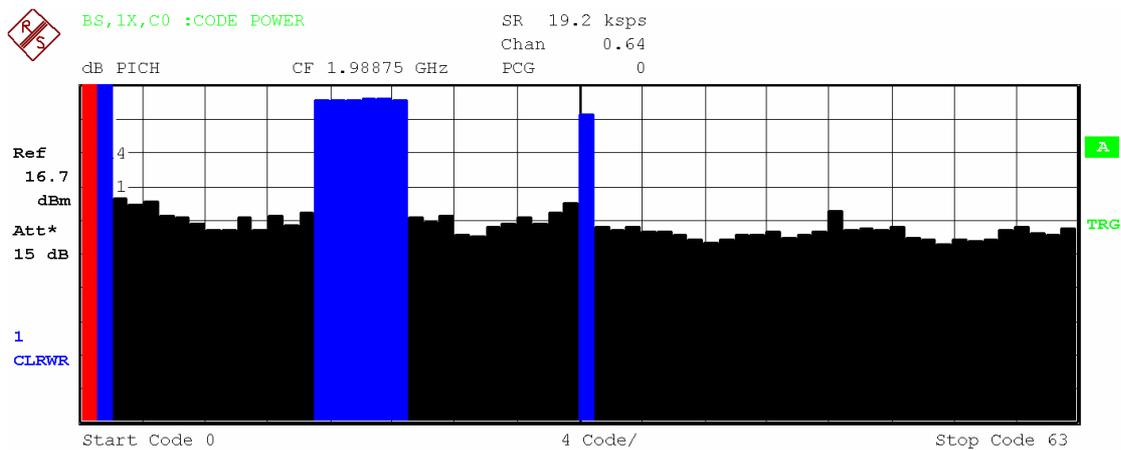
EXT

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.82 dBm	Carr Freq Error	-1.87 Hz
Pilot PWR	3.75 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98136	Chip Rate Error	-0.39 ppm
Composite EVM	13.78 %	Trg to Frame	361.354466 ns
Pk CDE (SF 64)	-30.28 dB	Active Channels	9
IQ Imbal/Offset	2.24/3.86 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksps	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	3.75 dBm
Symbol EVM	4.64 % rms	Symbol EVM	8.10 % Pk

B

TRX3: Channel No. 1175(1988.75MHz)

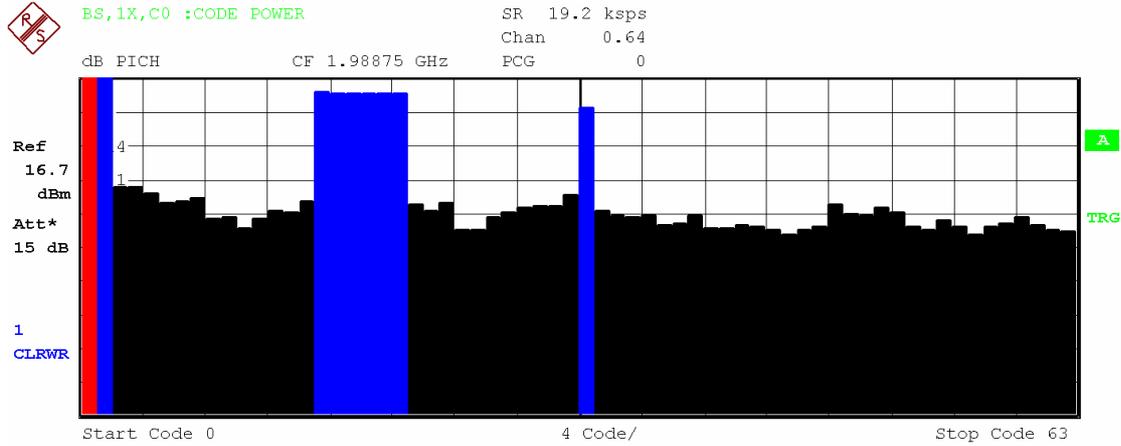
Temperature = - 30°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64
CF 1.98875 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.33 dBm	Carr Freq Error	-2.54 Hz
Pilot PWR	3.30 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98385	Chip Rate Error	0.01 ppm
Composite EVM	12.81 %	Trg to Frame	360.801891 ns
Pk CDE (SF 64)	-30.94 dB	Active Channels	9
IQ Imbal/Offset	1.04/3.62 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Channel Power Abs	3.30 dBm	Symbol EVM	7.57 % Pk
Symbol EVM	4.71 % rms		

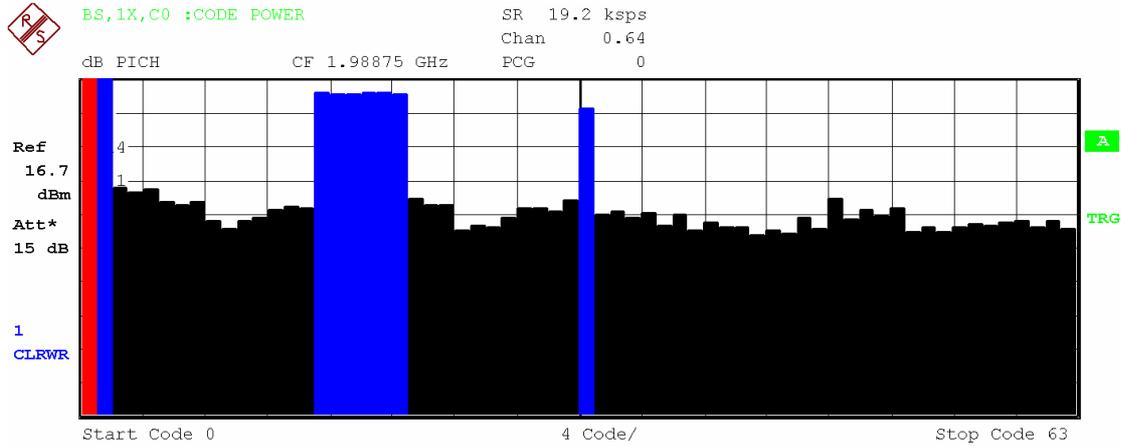
Temperature = - 20°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.98875 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.09 dBm	Carr Freq Error	-128.47 mHz
Pilot PWR	3.04 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98027	Chip Rate Error	0.40 ppm
Composite EVM	14.19 %	Trg to Frame	359.498785 ns
Pk CDE (SF 64)	-29.74 dB	Active Channels	9
IQ Imbal/Offset	1.08/3.83 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.20 % rms	Channel Power Abs	3.04 dBm
		Symbol EVM	8.90 % Pk

Temperature = - 10°C

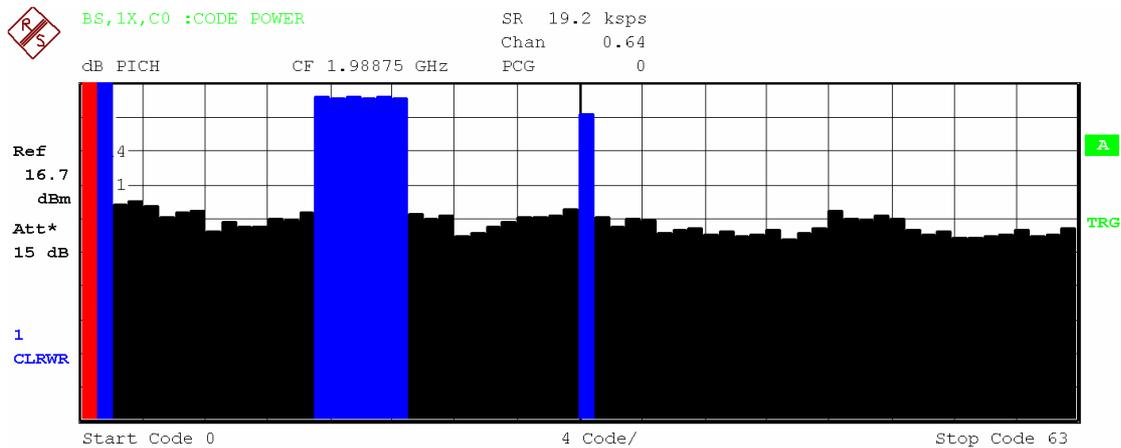


RESULT SUMMARY TABLE

SR 19.2 ksps
Chan 0.64
CF 1.98875 GHz
PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.16 dBm	Carr Freq Error	-10.01 Hz
Pilot PWR	3.09 dBm	Carr Freq Error	-0.01 ppm
RHO	0.98007	Chip Rate Error	0.12 ppm
Composite EVM	14.26 %	Trg to Frame	360.558289 ns
Pk CDE (SF 64)	-29.74 dB	Active Channels	9
IQ Imbal/Offset	1.07/4.24 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksps	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	3.09 dBm
Symbol EVM	5.10 % rms	Symbol EVM	7.91 % Pk

Temperature = 0°C

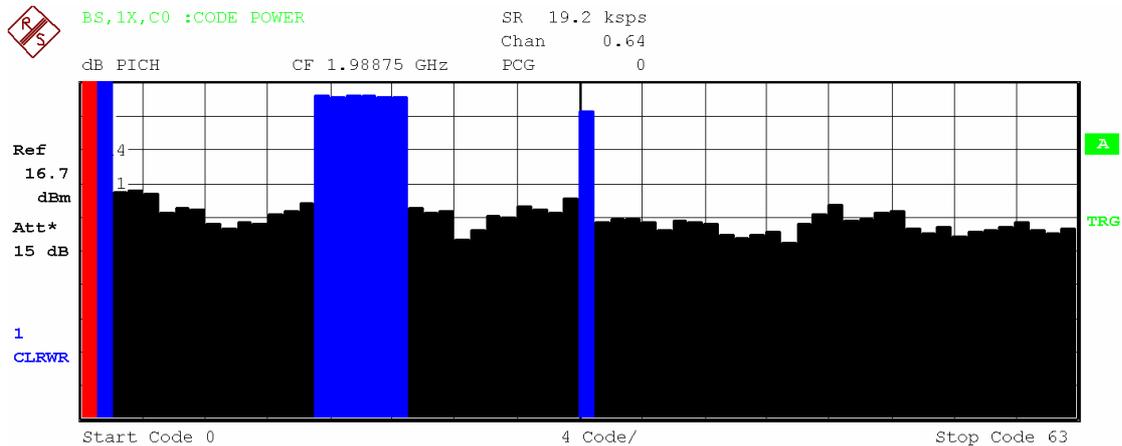


RESULT SUMMARY TABLE SR 19.2 ksp/s Chan 0.64 PCG 0

CF 1.98875 GHz

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.29 dBm	Carr Freq Error	-8.69 Hz
Pilot PWR	3.26 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98383	Chip Rate Error	0.23 ppm
Composite EVM	12.83 %	Trg to Frame	360.129548 ns
Pk CDE (SF 64)	-31.63 dB	Active Channels	9
IQ Imbal/Offset	1.20/3.80 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksp/s	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	3.26 dBm
Symbol EVM	4.74 % rms	Symbol EVM	8.29 % Pk

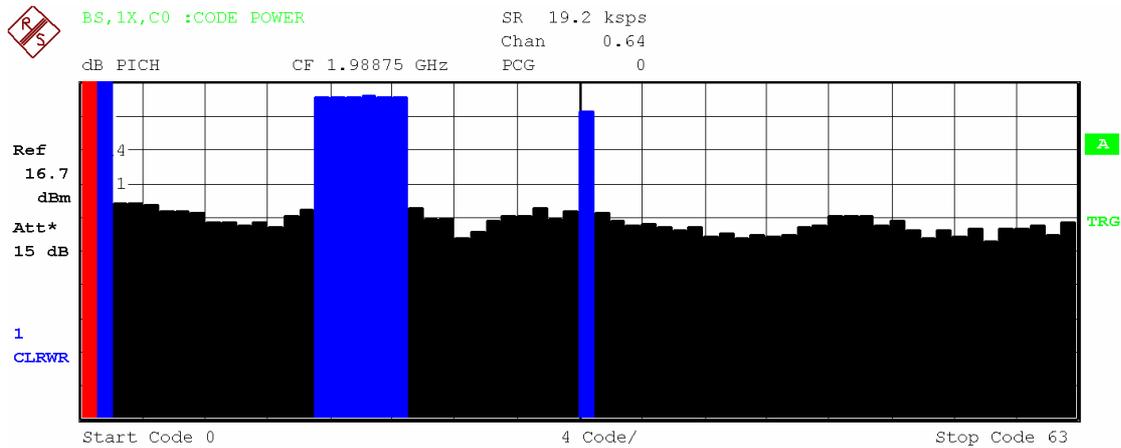
Temperature = 10°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.98875 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Ref	Total PWR 10.01 dBm	Carr Freq Error -7.46 Hz	
16.7 dBm	Pilot PWR 2.95 dBm	Carr Freq Error -0.00 ppm	B
Att* 15 dB	RHO 0.98081	Chip Rate Error -0.01 ppm	
	Composite EVM 13.99 %	Trg to Frame 360.679138 ns	
	Pk CDE (SF 64) -29.89 dB	Active Channels 9	
	IQ Imbal/Offset 0.92/4.57 %		
	CHANNEL RESULTS:	Modulation BPSK	
1 CLRWR	Symbol Rate 19.2 ksps	Timing Offset 0.00 ns	
	Channel.SF 0.64	Phase Offset 0.00 mrad	
	Channel Power Rel 0.00 dB	Channel Power Abs 2.95 dBm	
	Symbol EVM 4.20 % rms	Symbol EVM 7.27 % Pk	

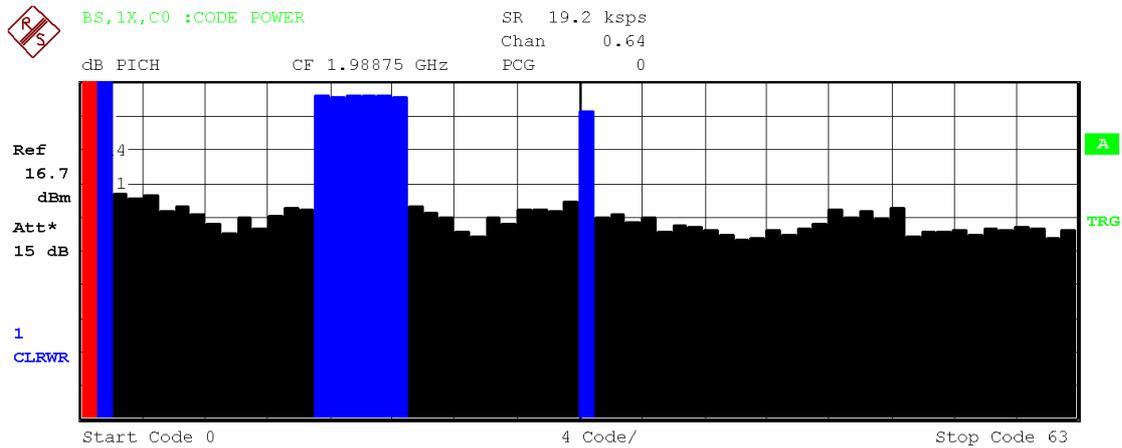
Temperature = 20°C



RESULT SUMMARY TABLE
SR 19.2 ksps
Chan 0.64
CF 1.98875 GHz
PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.19 dBm	Carr Freq Error	-4.72 Hz
Pilot PWR	3.18 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98408	Chip Rate Error	-0.03 ppm
Composite EVM	12.72 %	Trg to Frame	360.722851 ns
Pk CDE (SF 64)	-32.39 dB	Active Channels	9
IQ Imbal/Offset	1.37/4.00 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.00 % rms	Channel Power Abs	3.18 dBm
		Symbol EVM	7.26 % Pk

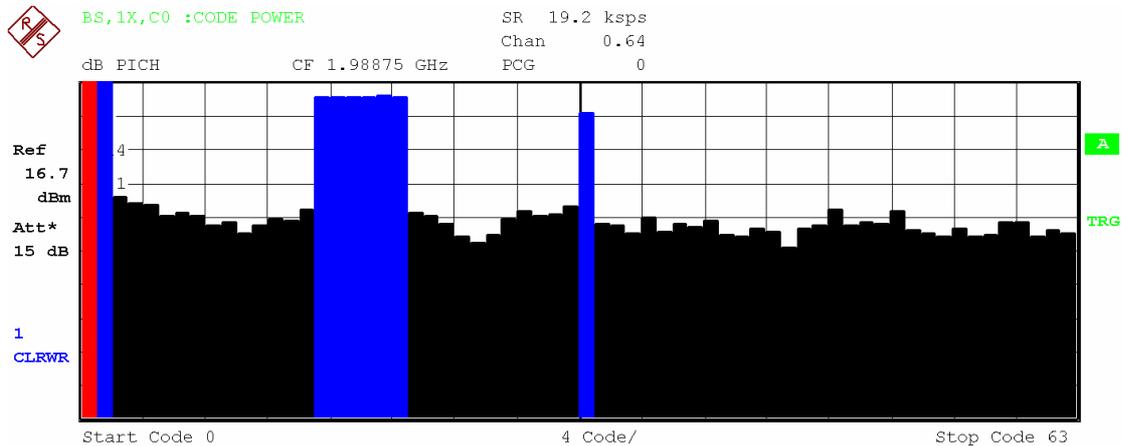
Temperature = 30°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.98875 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.26 dBm	Carr Freq Error	7.26 Hz
Pilot PWR	3.18 dBm	Carr Freq Error	0.00 ppm
RHO	0.98102	Chip Rate Error	0.35 ppm
Composite EVM	13.91 %	Trg to Frame	359.605622 ns
Pk CDE (SF 64)	-30.55 dB	Active Channels	9
IQ Imbal/Offset	1.64/3.60 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps	Modulation	BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	5.40 % rms	Channel Power Abs	3.18 dBm
		Symbol EVM	11.37 % Pk

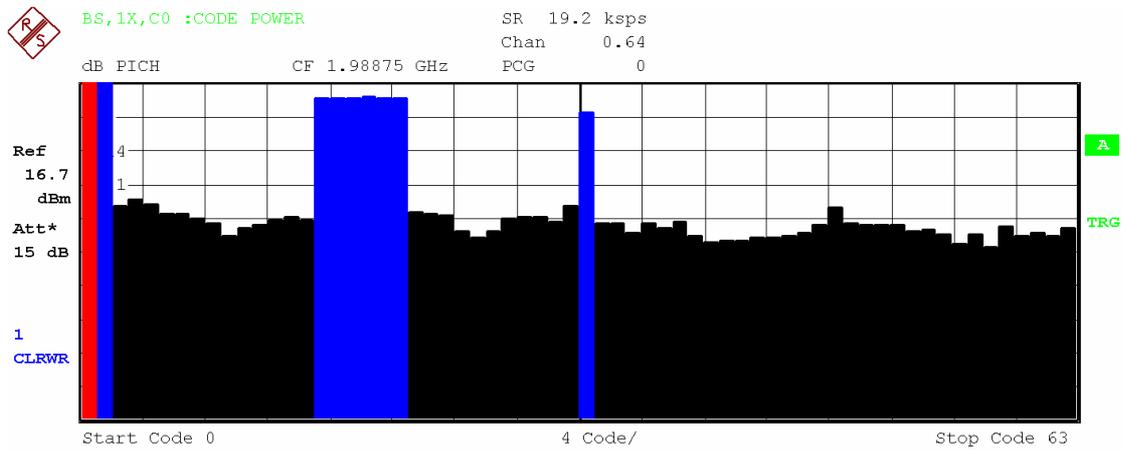
Temperature = 40°C



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64 EXT
CF 1.98875 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Ref	Total PWR 10.19 dBm	Carr Freq Error 21.04 Hz	
16.7 dBm	Pilot PWR 3.18 dBm	Carr Freq Error 0.01 ppm	B
Att* 15 dB	RHO 0.98400	Chip Rate Error -0.19 ppm	
	Composite EVM 12.75 %	Trg to Frame 361.593237 ns	
	Pk CDE (SF 64) -30.98 dB	Active Channels 9	
	IQ Imbal/Offset 1.33/3.77 %		
	CHANNEL RESULTS:	Modulation BPSK	
1 CLRWR	Symbol Rate 19.2 ksps	Timing Offset 0.00 ns	
	Channel.SF 0.64	Phase Offset 0.00 mrad	
	Channel Power Rel 0.00 dB	Channel Power Abs 3.18 dBm	
	Symbol EVM 4.49 % rms	Symbol EVM 8.07 % Pk	

Temperature = 50°C



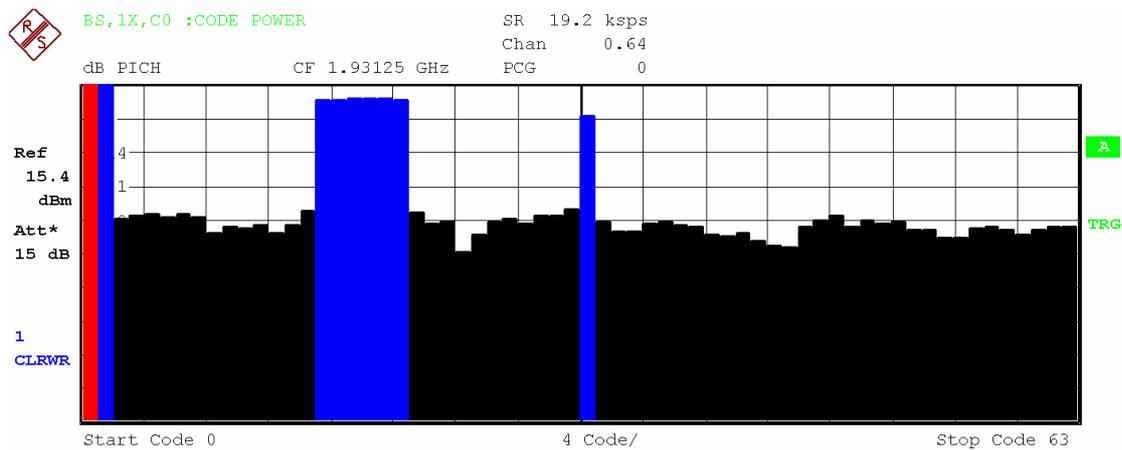
RESULT SUMMARY TABLE SR 19.2 kbps
Chan 0.64
CF 1.98875 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.18 dBm	Carr Freq Error	-8.63 Hz
Pilot PWR	3.15 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98402	Chip Rate Error	0.03 ppm
Composite EVM	12.75 %	Trg to Frame	360.666917 ns
Pk CDE (SF 64)	-31.57 dB	Active Channels	9
IQ Imbal/Offset	1.21/3.42 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Channel Power Abs	3.15 dBm	Symbol EVM	9.57 % Pk
Symbol EVM	5.00 % rms		

Frequency Stability versus Voltages

TRX1: Channel No. 25(1931.25MHz)

Voltage= -40.8V



RESULT SUMMARY TABLE

SR 19.2 ksps
Chan 0.64
CF 1.93125 GHz
PCG 0

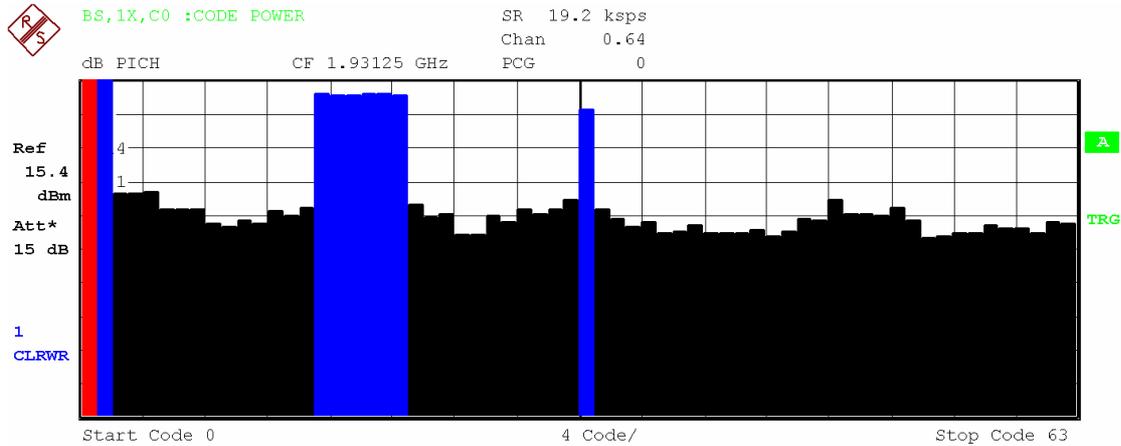
RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	9.43 dBm	Carr Freq Error	-7.55 Hz
Pilot PWR	2.42 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98414	Chip Rate Error	0.16 ppm
Composite EVM	12.70 %	Trg to Frame	458.379645 ns
Pk CDE (SF 64)	-33.07 dB	Active Channels	9
IQ Imbal/Offset	1.46/3.69 %		
CHANNEL RESULTS:		Modulation	BPSK
Symbol Rate	19.2 ksps	Timing Offset	0.00 ns
Channel.SF	0.64	Phase Offset	0.00 mrad
Channel Power Rel	0.00 dB	Channel Power Abs	2.42 dBm
Symbol EVM	4.19 % rms	Symbol EVM	8.58 % Pk

Ref 15.4 dBm
Att* 15 dB

1 CLRWR

B

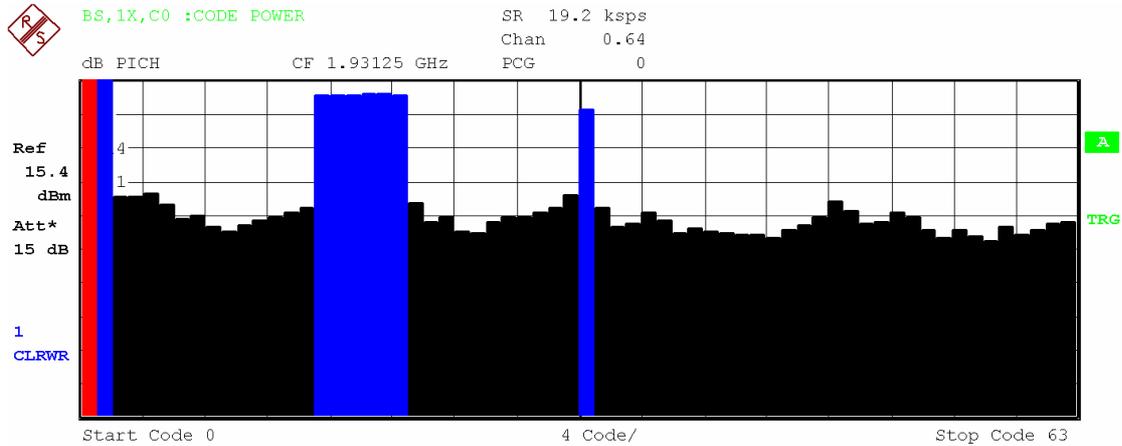
Voltage= -48V



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64
CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	9.50 dBm	Carr Freq Error	16.85 Hz
Pilot PWR	2.46 dBm	Carr Freq Error	0.01 ppm
RHO	0.98132	Chip Rate Error	-0.57 ppm
Composite EVM	13.80 %	Trg to Frame	460.066758 ns
Pk CDE (SF 64)	-30.59 dB	Active Channels	9
IQ Imbal/Offset	1.57/3.86 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.82 % rms	Channel Power Abs	2.46 dBm
		Symbol EVM	6.98 % Pk

Voltage= -55.2V

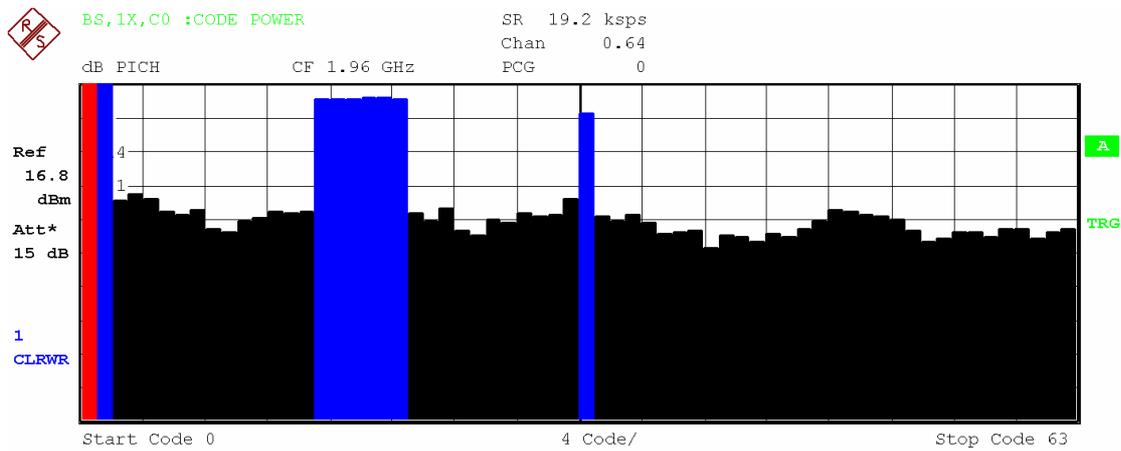


Start Code 0 4 Code/ Stop Code 63
 RESULT SUMMARY TABLE SR 19.2 ksps Chan 0.64 CF 1.93125 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	9.35 dBm	Carr Freq Error	-9.63 Hz
Pilot PWR	2.32 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98246	Chip Rate Error	-0.13 ppm
Composite EVM	13.36 %	Trg to Frame	459.253187 ns
Pk CDE (SF 64)	-30.83 dB	Active Channels	9
IQ Imbal/Offset	2.39/4.00 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.36 % rms	Channel Power Abs	2.32 dBm
		Symbol EVM	7.29 % Pk

TRX2: Channel No. 600(1960.00MHz)

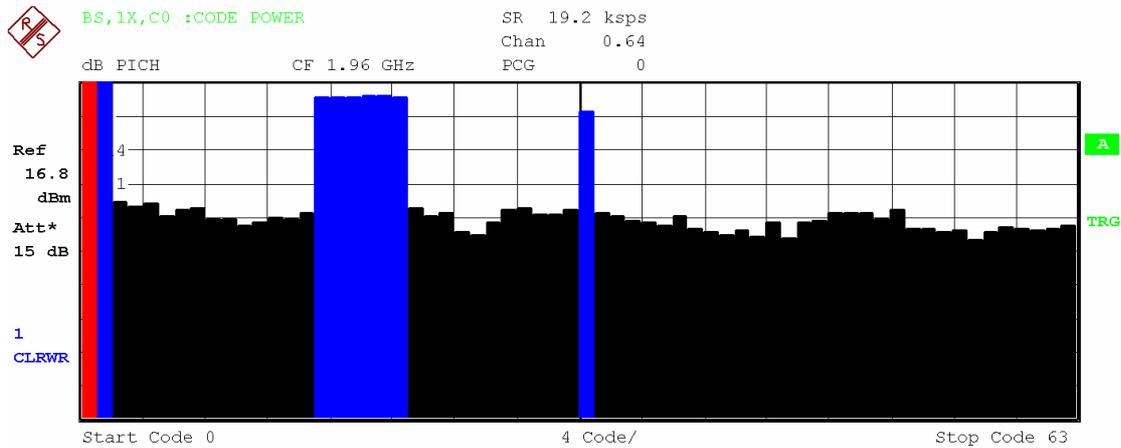
Voltage= -40.8V



RESULT SUMMARY TABLE SR 19.2 kbps
Chan 0.64
CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Ref	Total PWR 10.74 dBm	Carr Freq Error 5.79 Hz	
16.8 dBm	Pilot PWR 3.72 dBm	Carr Freq Error 0.00 ppm	
	RHO 0.97993	Chip Rate Error -0.66 ppm	
Att*	Composite EVM 14.32 %	Trg to Frame 361.718804 ns	
15 dB	Pk CDE (SF 64) -29.98 dB	Active Channels 9	
	IQ Imbal/Offset 1.81/3.72 %		
	CHANNEL RESULTS:	Modulation BPSK	
1 CLRWR	Symbol Rate 19.2 kbps	Timing Offset 0.00 ns	
	Channel.SF 0.64	Phase Offset 0.00 mrad	
	Channel Power Rel 0.00 dB	Channel Power Abs 3.72 dBm	
	Symbol EVM 5.53 % rms	Symbol EVM 11.07 % Pk	

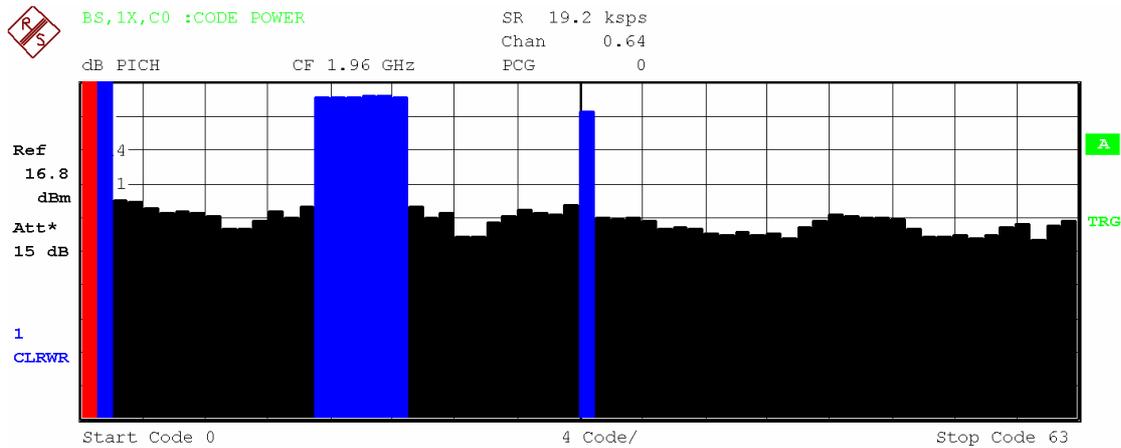
Voltage= -48V



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64
CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.87 dBm	Carr Freq Error	-4.02 Hz
Pilot PWR	3.83 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98109	Chip Rate Error	-0.17 ppm
Composite EVM	13.89 %	Trg to Frame	360.491839 ns
Pk CDE (SF 64)	-31.73 dB	Active Channels	9
IQ Imbal/Offset	1.81/4.33 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	5.63 % rms	Channel Power Abs	3.83 dBm
		Symbol EVM	12.07 % Pk

Voltage= -55.2V

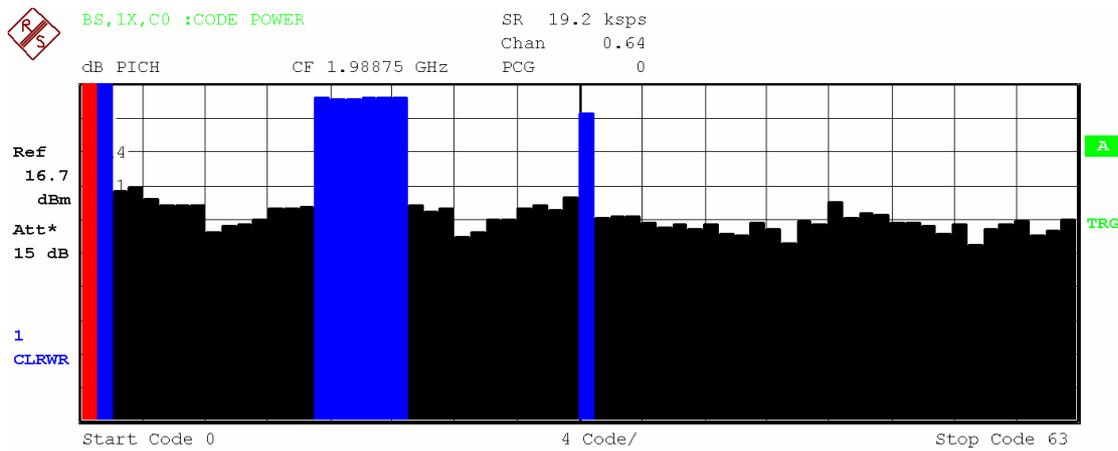


Start Code 0 4 Code/ Stop Code 63
 RESULT SUMMARY TABLE SR 19.2 ksps
 Chan 0.64 EXT
 CF 1.96 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.86 dBm	Carr Freq Error	-9.34 Hz
Pilot PWR	3.81 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98299	Chip Rate Error	0.20 ppm
Composite EVM	13.15 %	Trg to Frame	360.353994 ns
Pk CDE (SF 64)	-31.88 dB	Active Channels	9
IQ Imbal/Offset	1.02/3.95 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.21 % rms	Channel Power Abs	3.81 dBm
		Symbol EVM	7.12 % Pk

TRX1: Channel No. 1175(1988.75MHz)

Voltage= -40.8V



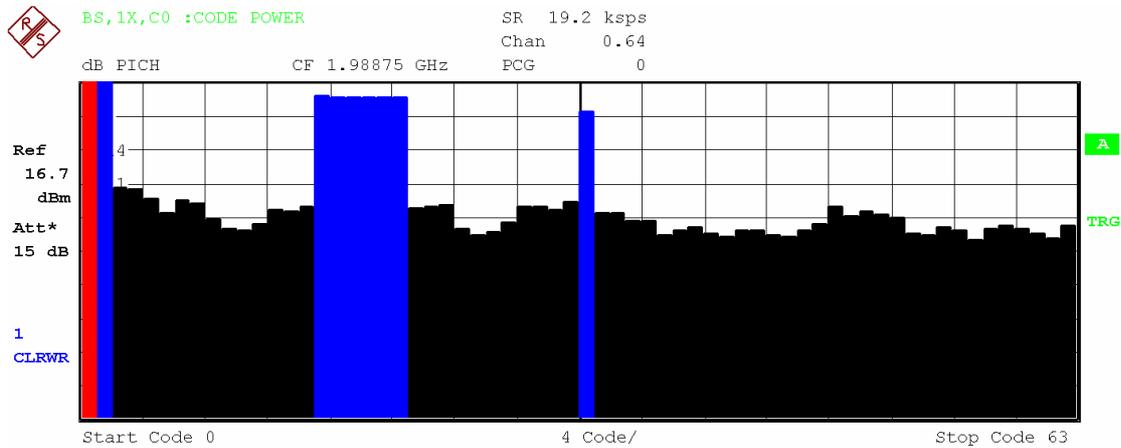
RESULT SUMMARY TABLE

SR 19.2 ksp/s
Chan 0.64
CF 1.98875 GHz
PCG 0

EXT

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.05 dBm	Carr Freq Error	1.39 Hz
Pilot PWR	2.98 dBm	Carr Freq Error	0.00 ppm
RHO	0.97679	Chip Rate Error	0.12 ppm
Composite EVM	15.42 %	Trg to Frame	359.807785 ns
Pk CDE (SF 64)	-28.86 dB	Active Channels	9
IQ Imbal/Offset	1.34/3.96 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksp/s		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	5.43 % rms	Channel Power Abs	2.98 dBm
		Symbol EVM	11.47 % Pk

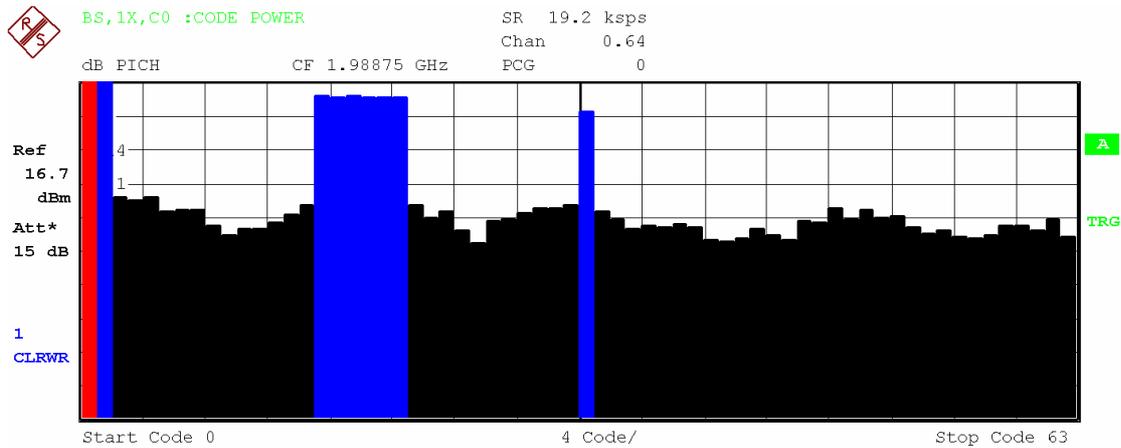
Voltage= -48V



Start Code 0 4 Code/ Stop Code 63
 RESULT SUMMARY TABLE SR 19.2 ksps Chan 0.64 CF 1.98875 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.11 dBm	Carr Freq Error	-13.29 Hz
Pilot PWR	3.06 dBm	Carr Freq Error	-0.01 ppm
RHO	0.97978	Chip Rate Error	0.16 ppm
Composite EVM	14.36 %	Trg to Frame	360.017935 ns
Pk CDE (SF 64)	-29.14 dB	Active Channels	9
IQ Imbal/Offset	1.00/3.69 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	5.08 % rms	Channel Power Abs	3.06 dBm
		Symbol EVM	7.57 % Pk

Voltage= -55.2V



RESULT SUMMARY TABLE SR 19.2 ksps
Chan 0.64
CF 1.98875 GHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	10.19 dBm	Carr Freq Error	-4.29 Hz
Pilot PWR	3.13 dBm	Carr Freq Error	-0.00 ppm
RHO	0.98220	Chip Rate Error	0.42 ppm
Composite EVM	13.47 %	Trg to Frame	359.392175 ns
Pk CDE (SF 64)	-31.02 dB	Active Channels	9
IQ Imbal/Offset	2.28/3.93 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 ksps		BPSK
Channel.SF	0.64	Timing Offset	0.00 ns
Channel Power Rel	0.00 dB	Phase Offset	0.00 mrad
Symbol EVM	4.62 % rms	Channel Power Abs	3.13 dBm
		Symbol EVM	8.54 % Pk

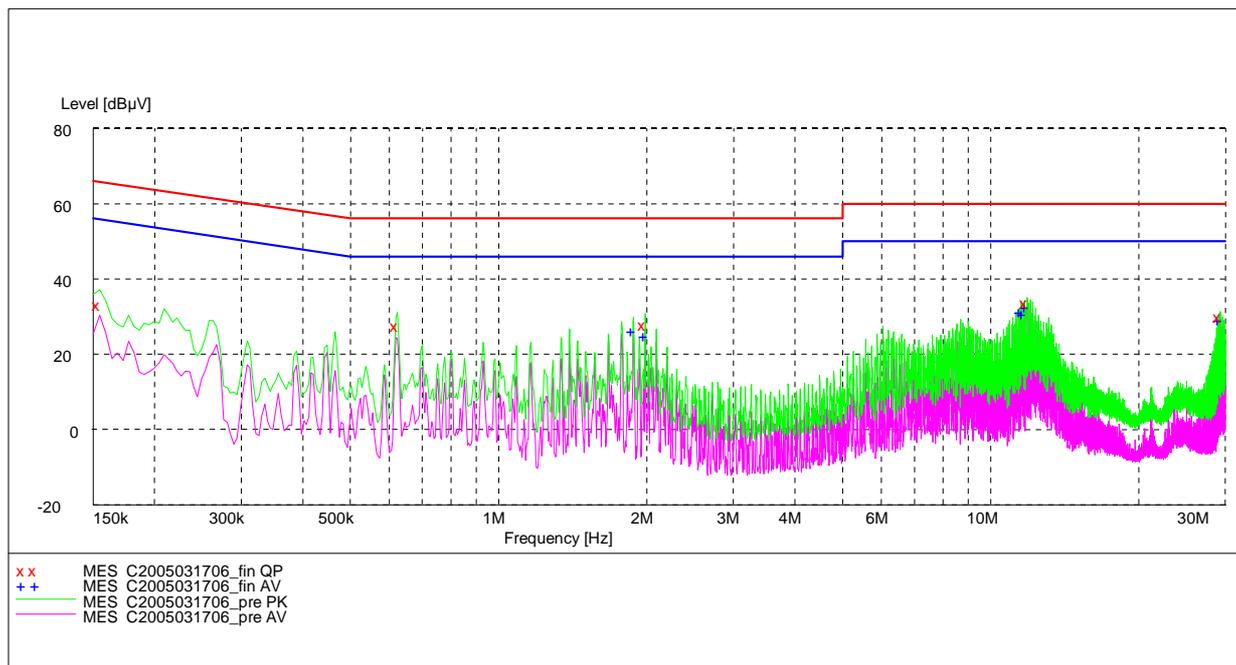
Appendix G

Conducted Emission Measurements

According to CFR 47 (FCC) part 15.207

CONDUCTED EMISSION TEST

Test result of BTS3606:



MEASUREMENT RESULT: " C2005031706_fin QP"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
0.154500	33.60	1.7	66	32.2	L3	GND
0.622500	28.10	0.6	56	27.9	L3	GND
1.986000	28.40	0.5	56	27.6	L3	GND
11.877000	34.20	2.0	60	25.8	L3	GND
29.274000	30.50	3.1	60	29.5	L3	GND

MEASUREMENT RESULT: " C2005031706_fin AV"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Line	PE
1.882500	26.80	0.5	46	19.2	L3	GND
1.990500	25.50	0.5	46	20.6	L3	GND
11.566500	31.70	2.2	50	18.3	L3	GND
11.719500	31.40	2.1	50	18.6	L3	GND
11.877000	33.10	2.0	50	16.9	L3	GND
29.274000	29.70	3.1	50	20.3	L3	GND

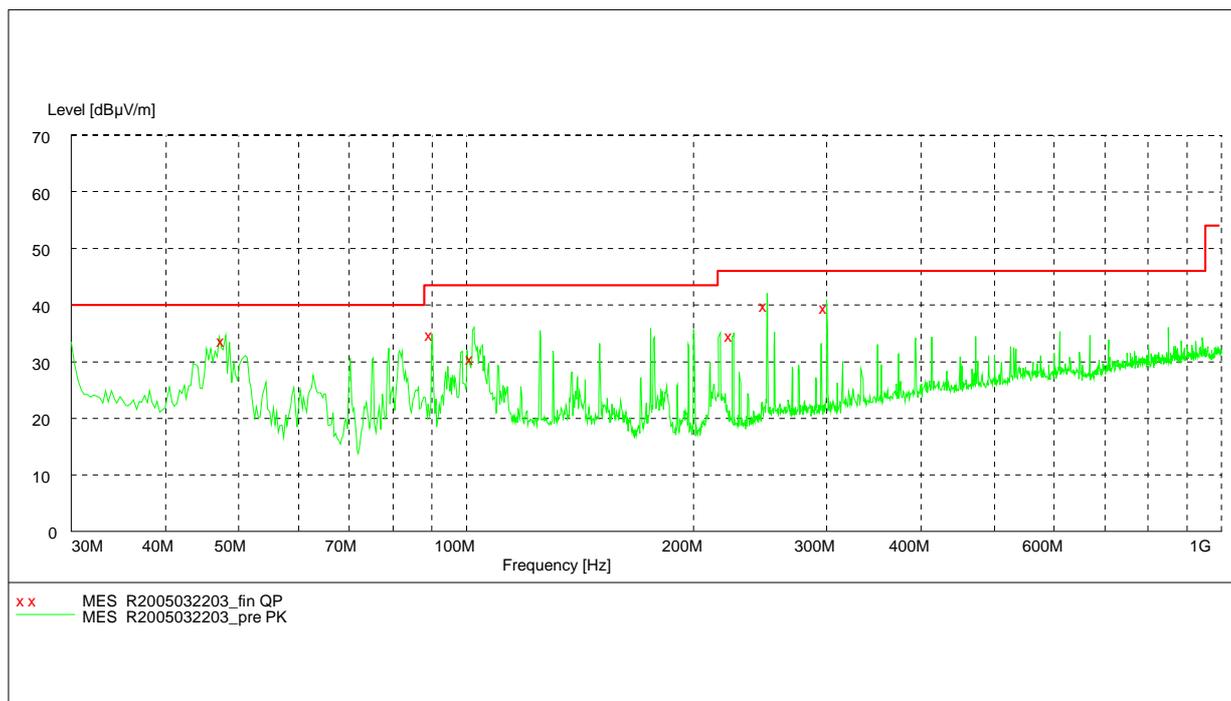
Appendix H

Radiated Emission Measurements

According to CFR 47 (FCC) part 15.207

RADIATED EMISSION TEST

Test result of BTS3606:



MEASUREMENT RESULT: " R2005032203_fin QP"

Frequency (MHz)	Level (dBµV)	Transd (dB)	Limit (dBµV)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
47.760000	33.90	-13.4	40.0	6.1	119.0	145.00	VERTICAL
90.000000	35.10	-12.6	43.5	8.4	100.0	6.00	VERTICAL
101.880000	30.70	-10.3	43.5	12.8	181.0	13.00	VERTICAL
225.000000	34.30	-10.1	46.0	11.7	115.0	80.00	VERTICAL
249.960000	40.20	-7.6	46.0	5.8	104.0	251.00	VERTICAL
300.000000	39.70	-6.1	46.0	6.3	100.0	175.00	VERTICAL

Appendix I

Photos of Test Set-up

BTS3606



Photo ERP Measurement 30 MHz – 1 GHz

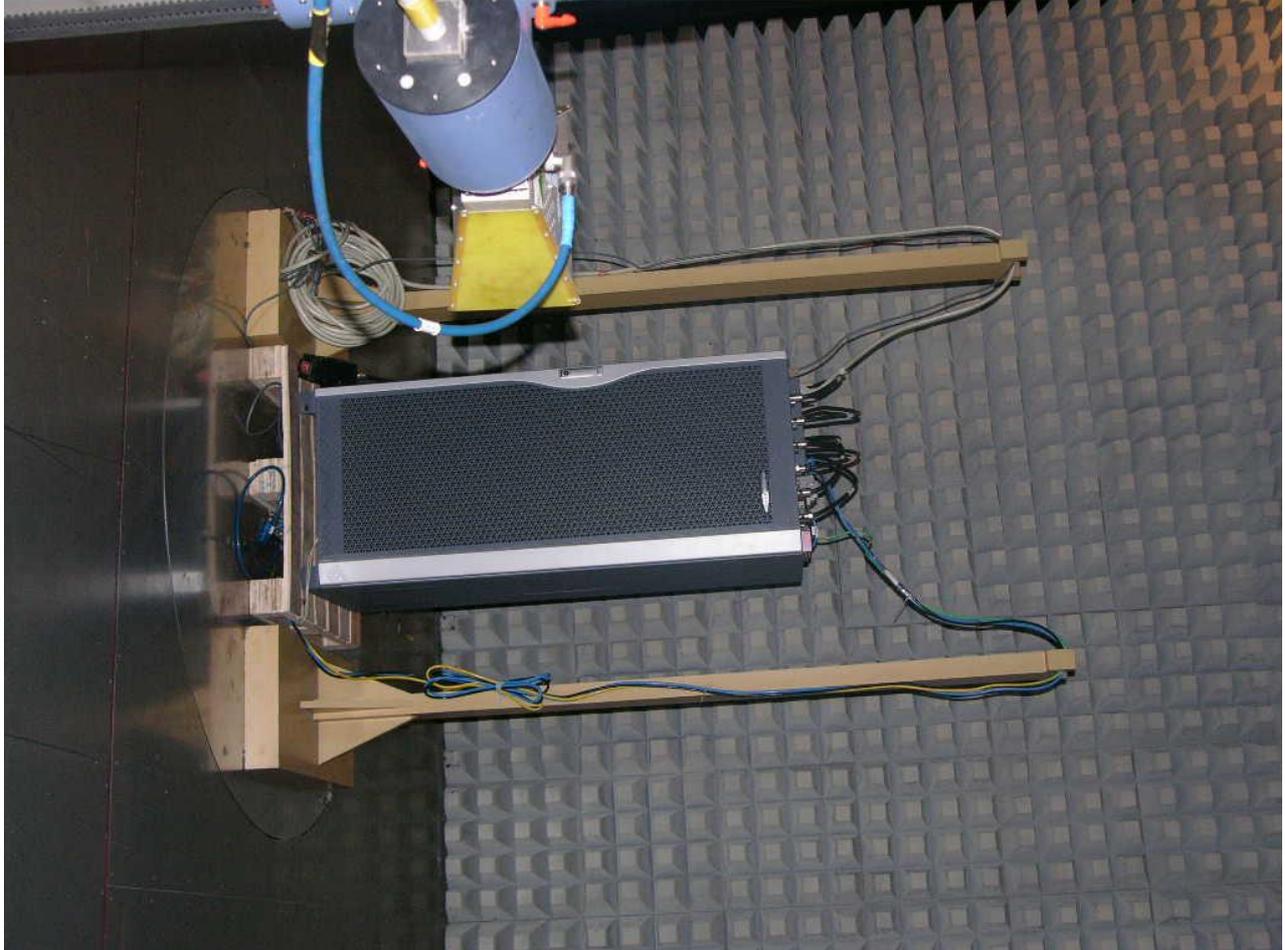


Photo ERP measurement 1 GHz – 10 GHz

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Photo Conducted Emission Measurement