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Appendix A

Channel Power Measurement

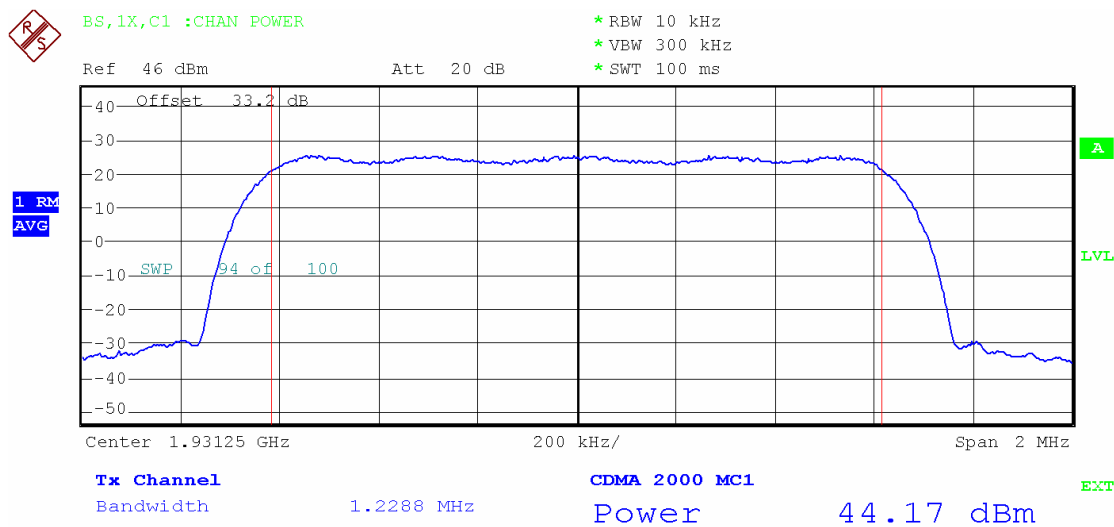
According to CFR 47 (FCC) part 2.1046

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A. Single Carrier:

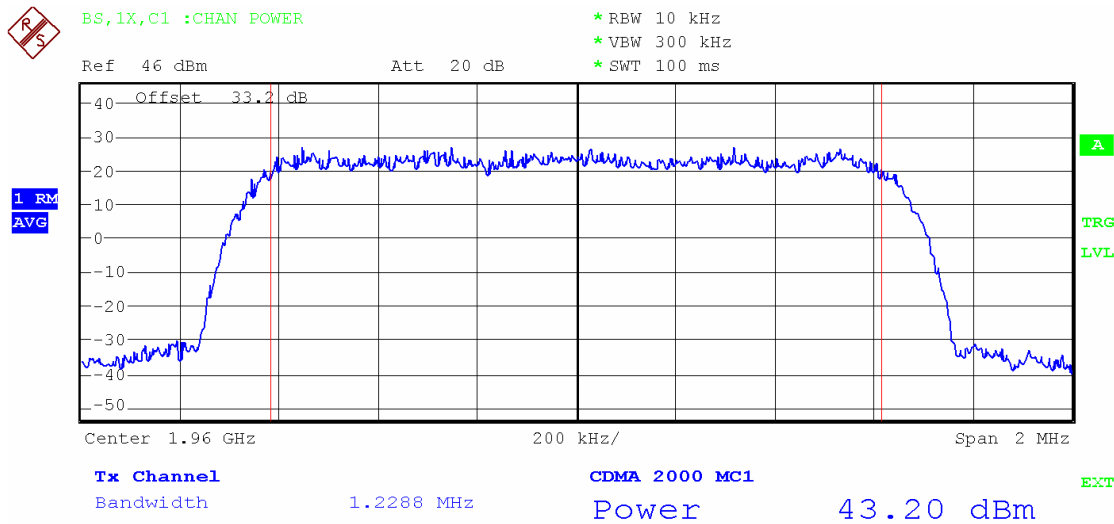
Channel 25



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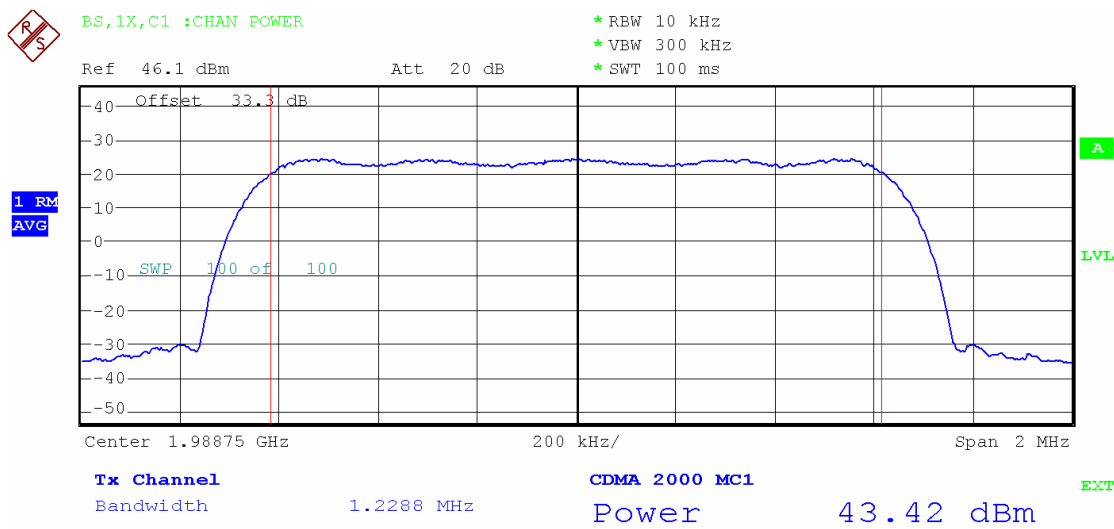
Channel 600



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Channel 1175

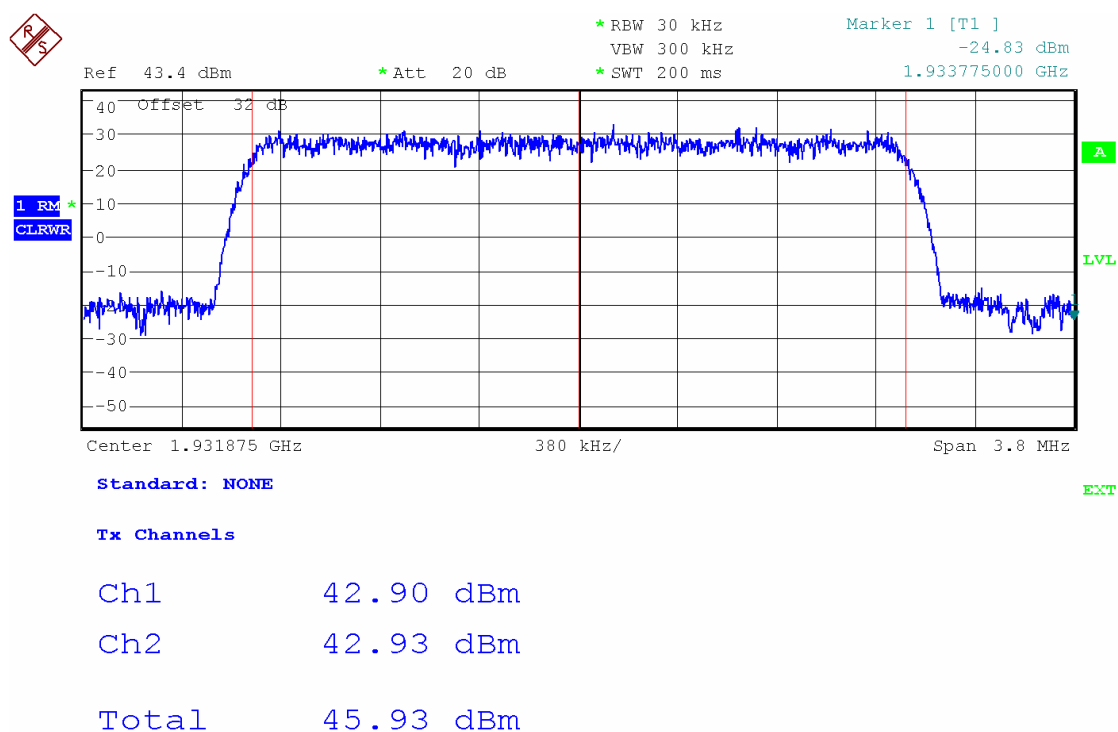


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B. Two Carriers:

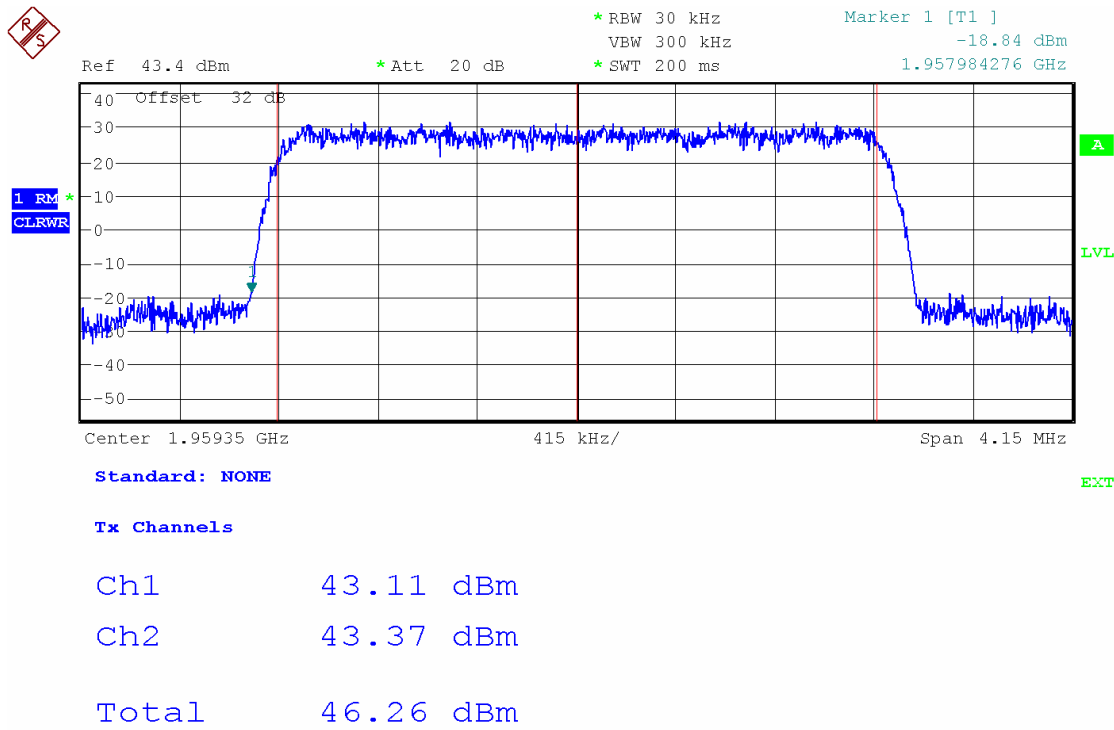
Channel 25



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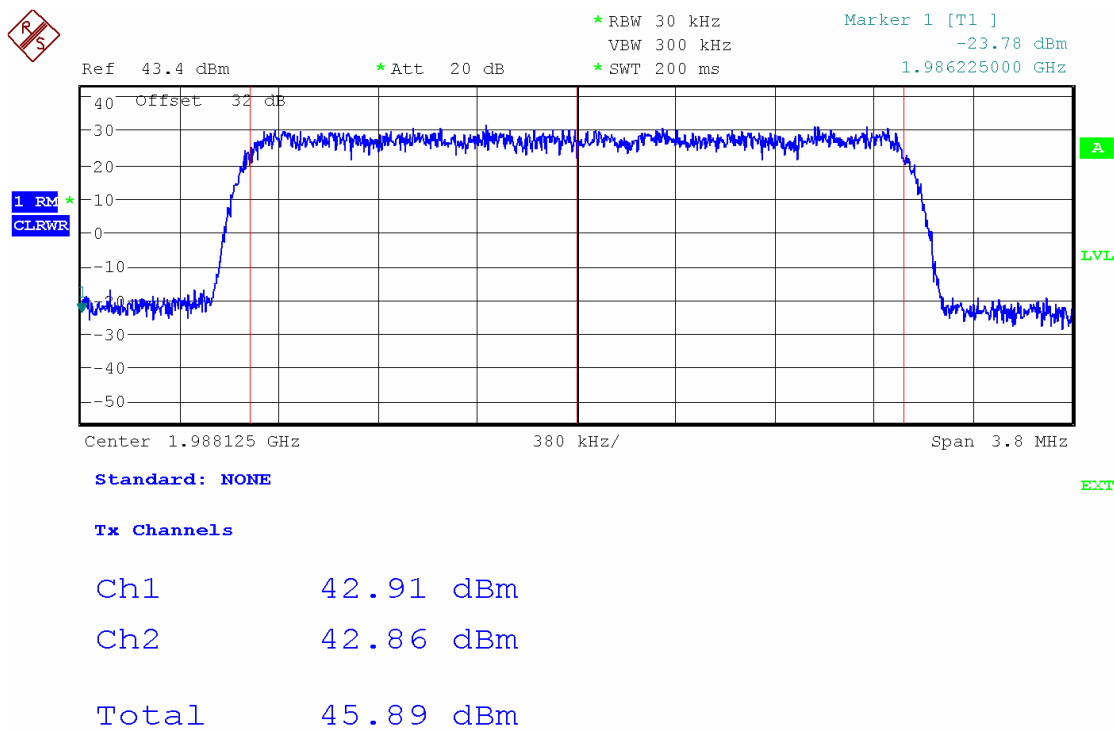
Channel 600



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Channel 1175

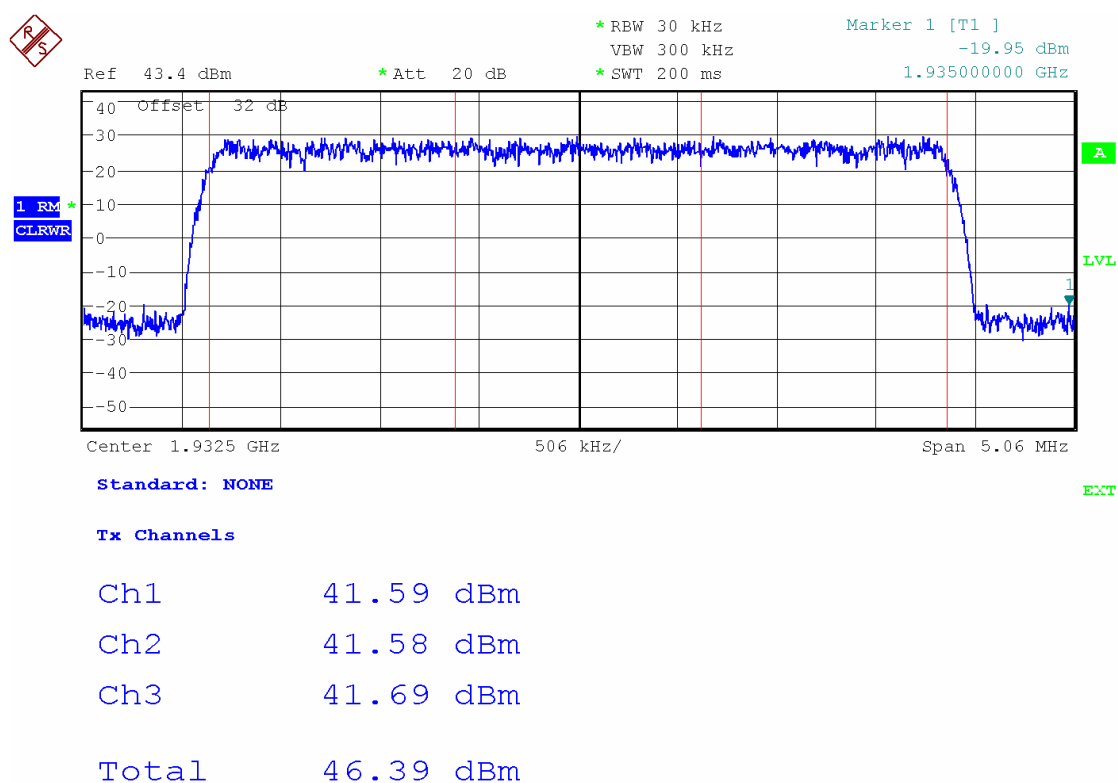


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C. Three Carriers:

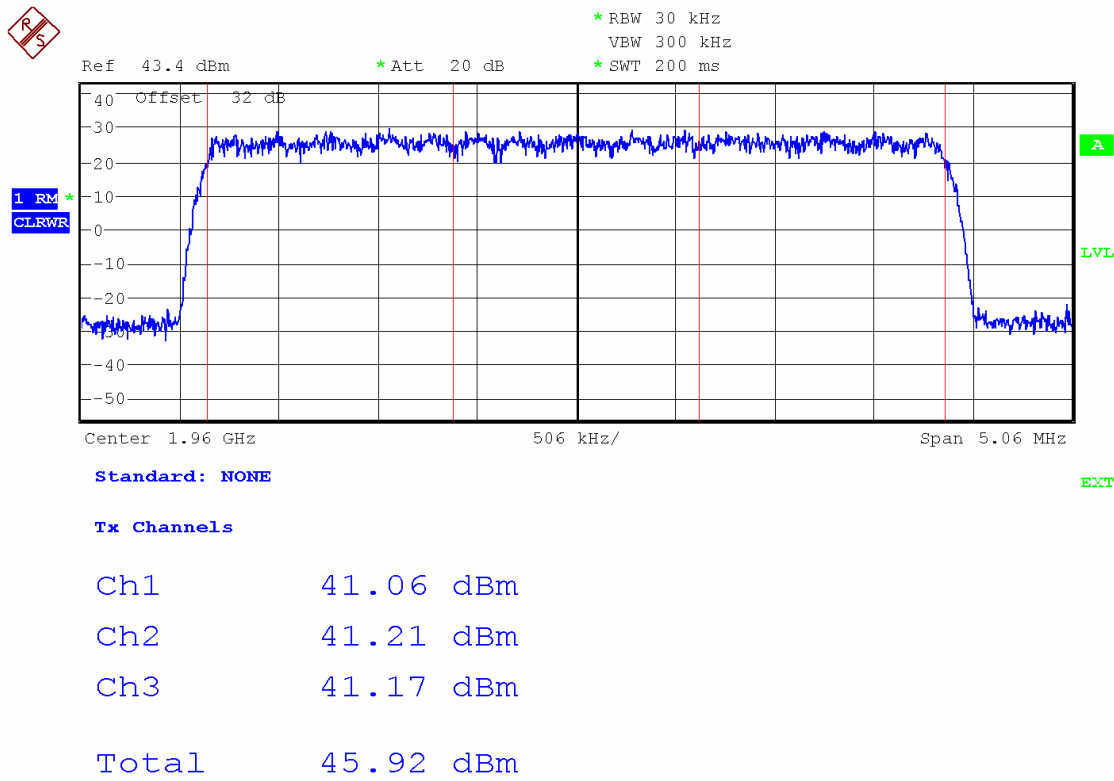
Channel 25



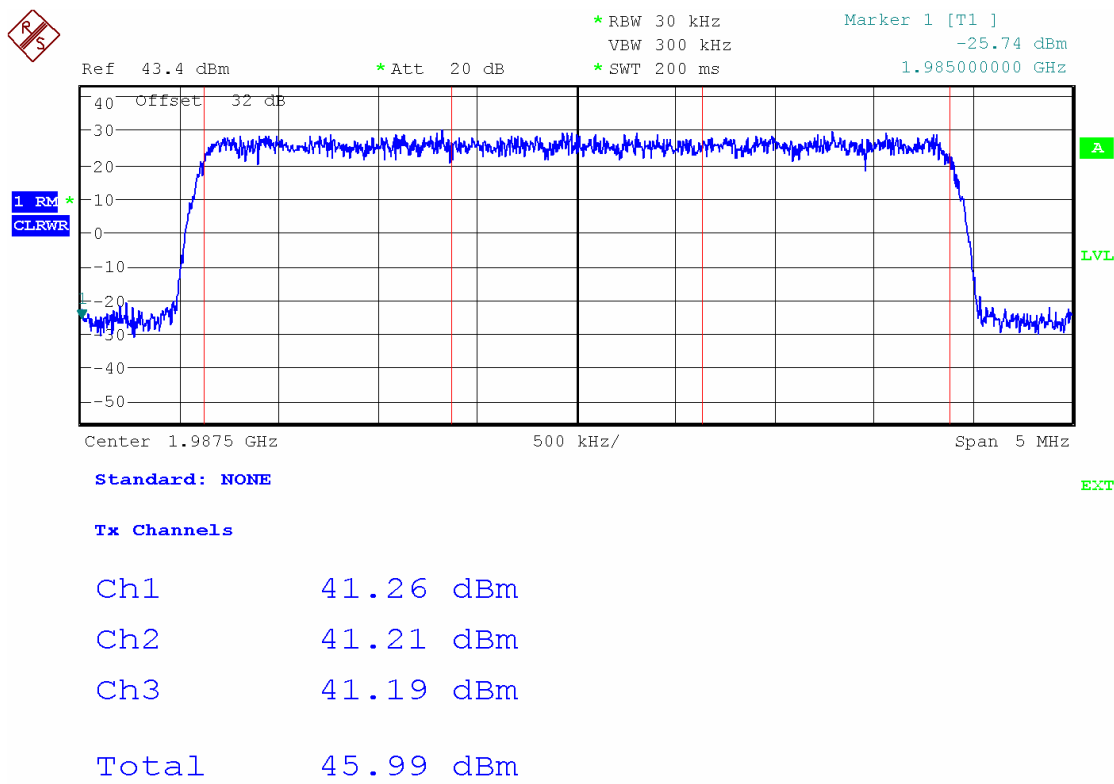
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Channel 600



Channel 1175



Test Report No.: SYBH(E)25022005

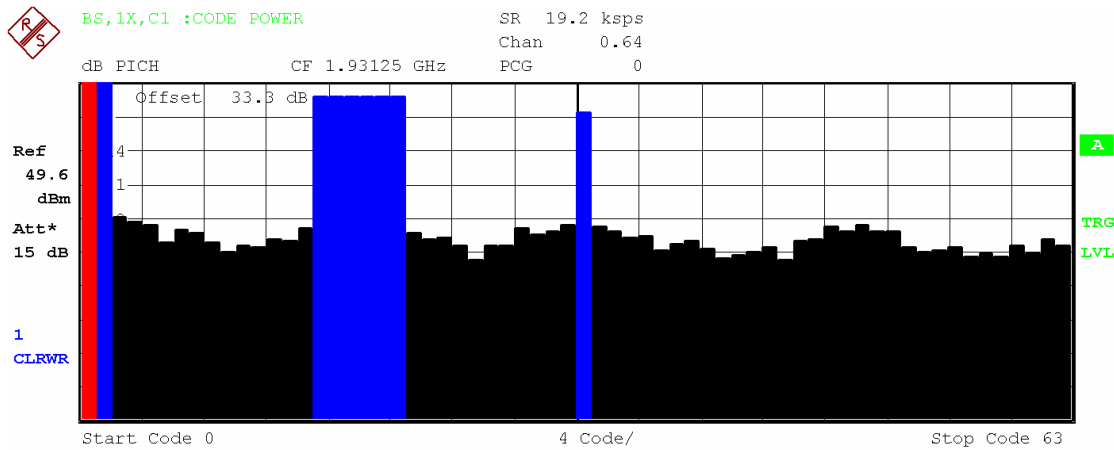
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Appendix B

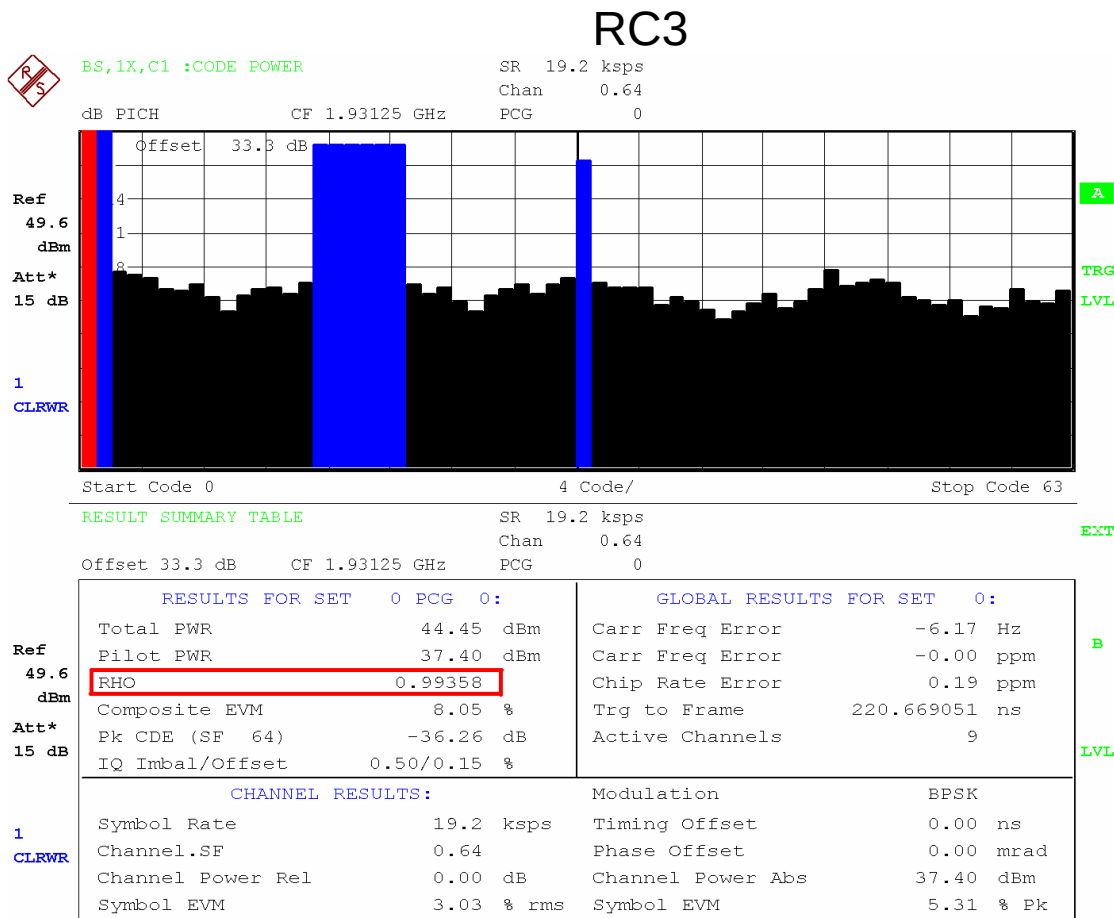
Modulation Characteristic Measurement

According to CFR 47 (FCC) part 2.1047

Channel 25
RC1



RESULT SUMMARY TABLE		SR 19.2 ksps	EXT
		Chan 0.64	
Offset 33.3 dB CF 1.93125 GHz PCG 0			
Ref 49.6 dBm Att* 15 dB 1 CLEWR	RESULTS FOR SET 0 PCG 0:		B LVL
	Total PWR	44.41 dBm	
	Pilot PWR	37.37 dBm	
	RHO	0.99229	
	Composite EVM	8.82 %	
	Pk CDE (SF 64)	-35.02 dB	
	IQ Imbal/Offset	0.26/0.33 %	
GLOBAL RESULTS FOR SET 0:			B LVL
		Carr Freq Error -12.65 Hz	
		Carr Freq Error -0.01 ppm	
		Chip Rate Error -0.14 ppm	
		Trg to Frame 221.514739 ns	
		Active Channels 9	
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 37.37 dBm	
		Symbol EVM 2.83 % rms	
		Symbol EVM 6.78 % Pk	

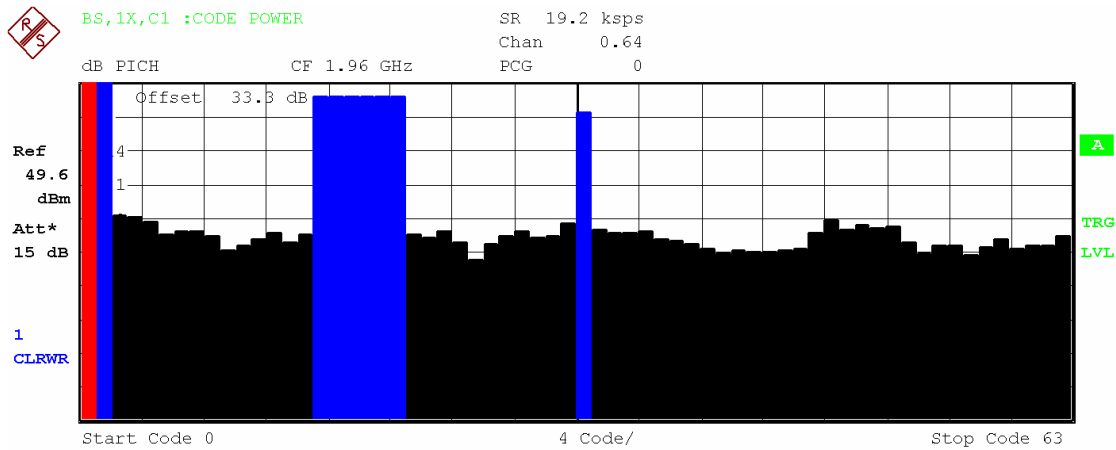


A

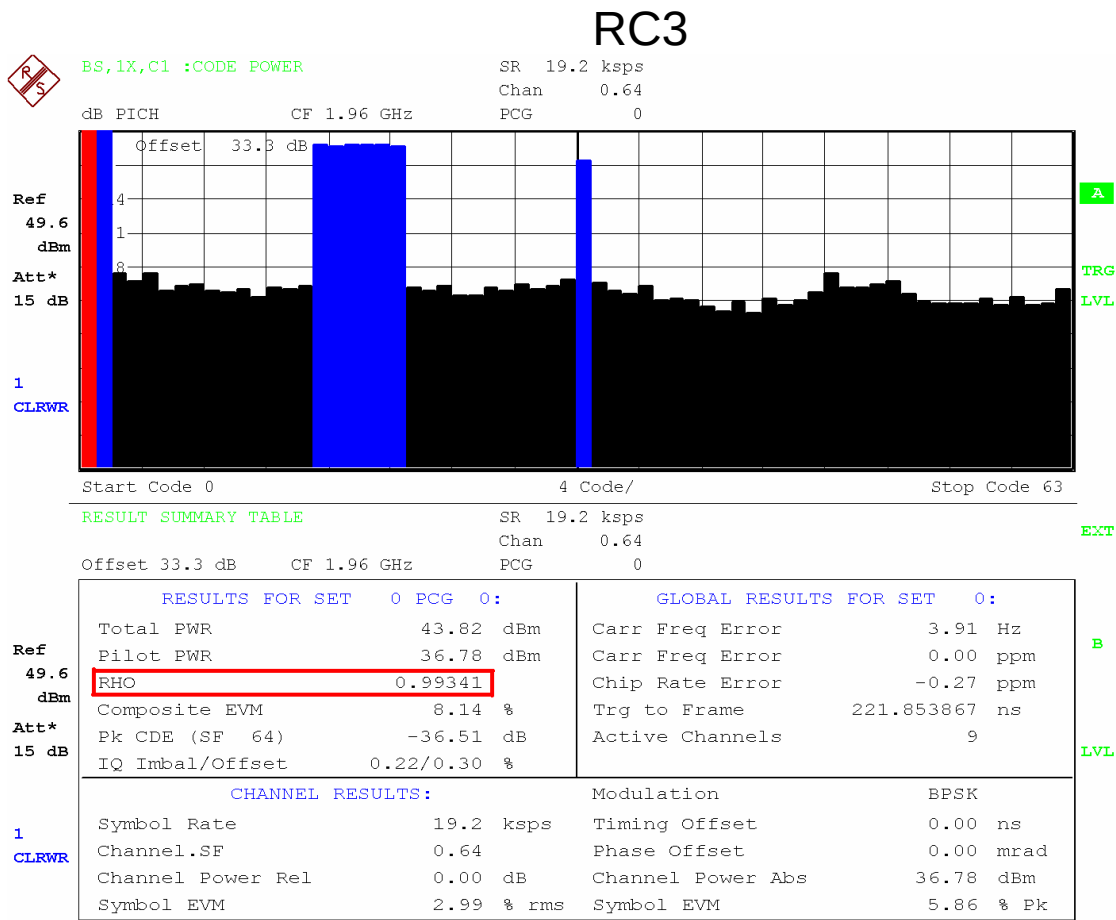
TRG

LVL

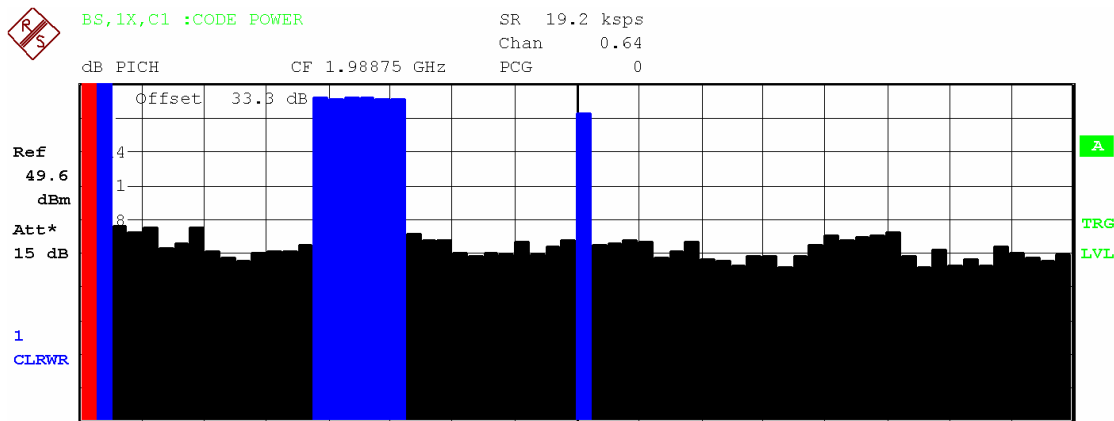
Channel 600
RC1



RESULT SUMMARY TABLE		SR 19.2 ksps	EXT
Offset 33.3 dB CF 1.96 GHz		Chan 0.64	
		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	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	36.70 dBm
Symbol EVM	3.20 % rms	Symbol EVM	6.25 % Pk



Channel 1175
RC1



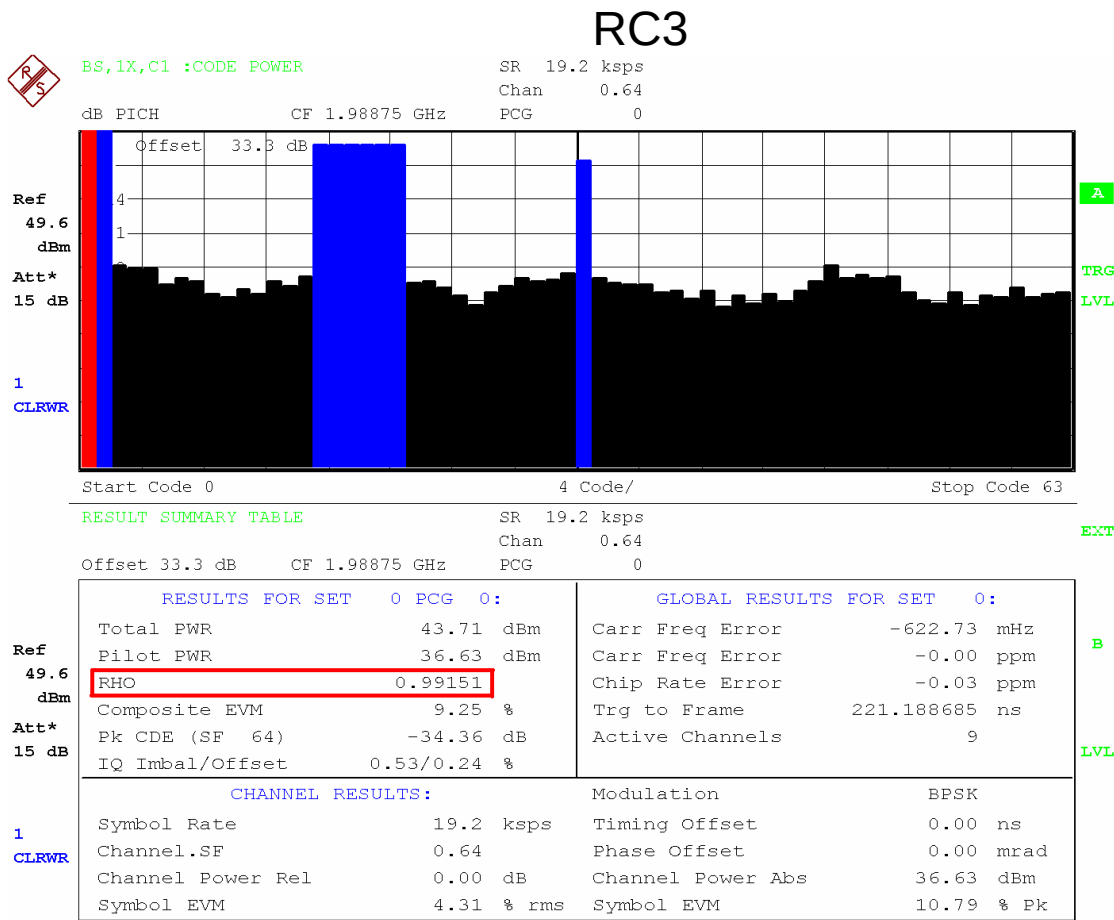
Start Code 0 4 Code/ Stop Code 63

RESULT SUMMARY TABLE

SR 19.2 kbps
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 kbps		Timing Offset	0.00 ns	
Channel.SF	0.64		Phase Offset	0.00 mrad	
Channel Power Rel	0.00 dB		Channel Power Abs	36.79 dBm	
Symbol EVM	2.51 % rms		Symbol EVM	5.73 % Pk	

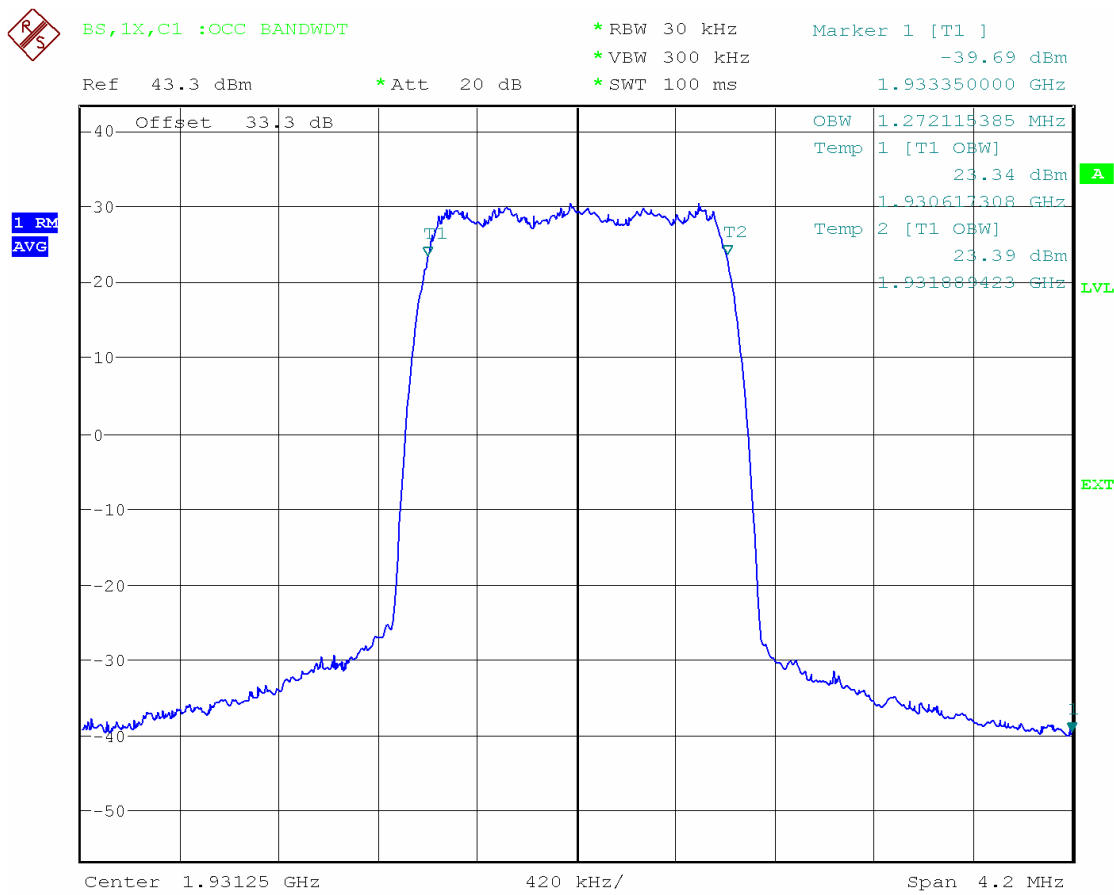


Appendix C

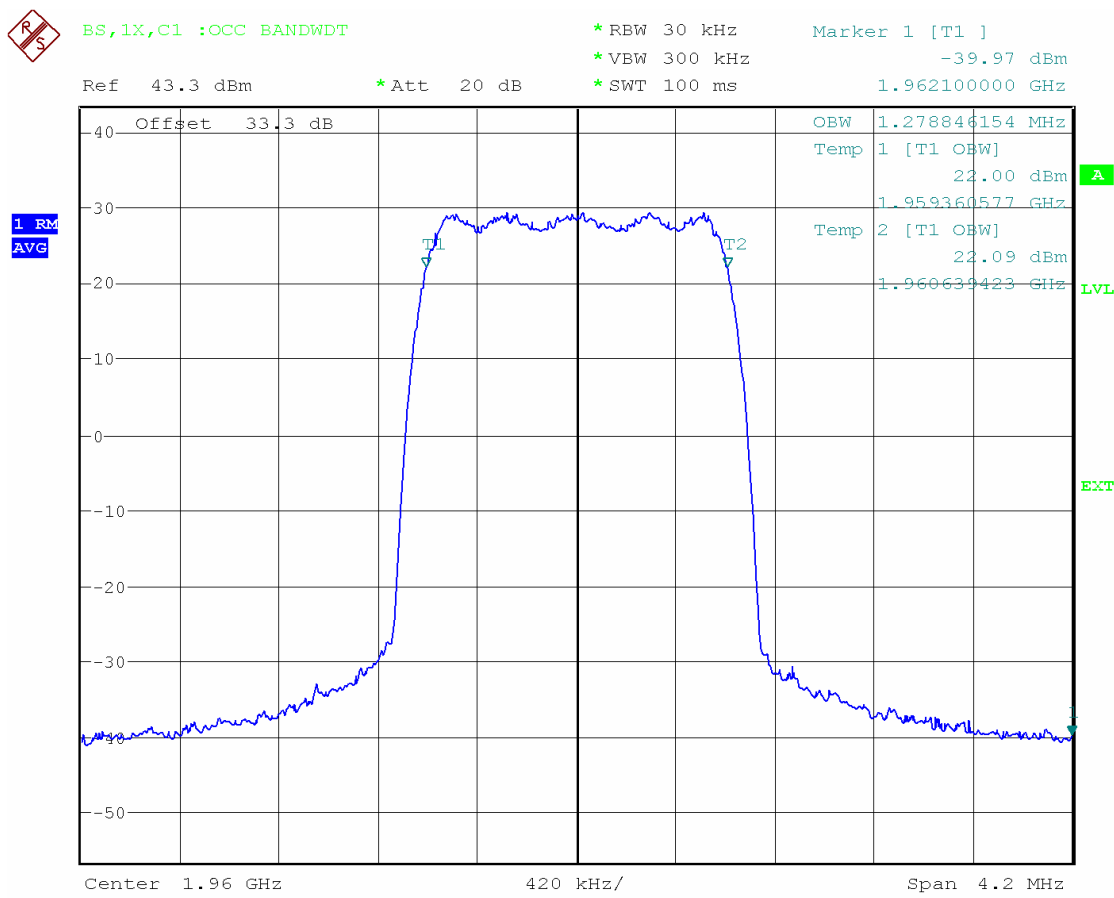
Occupied Bandwidth Measurement

According to CFR 47 (FCC) part 2.1049

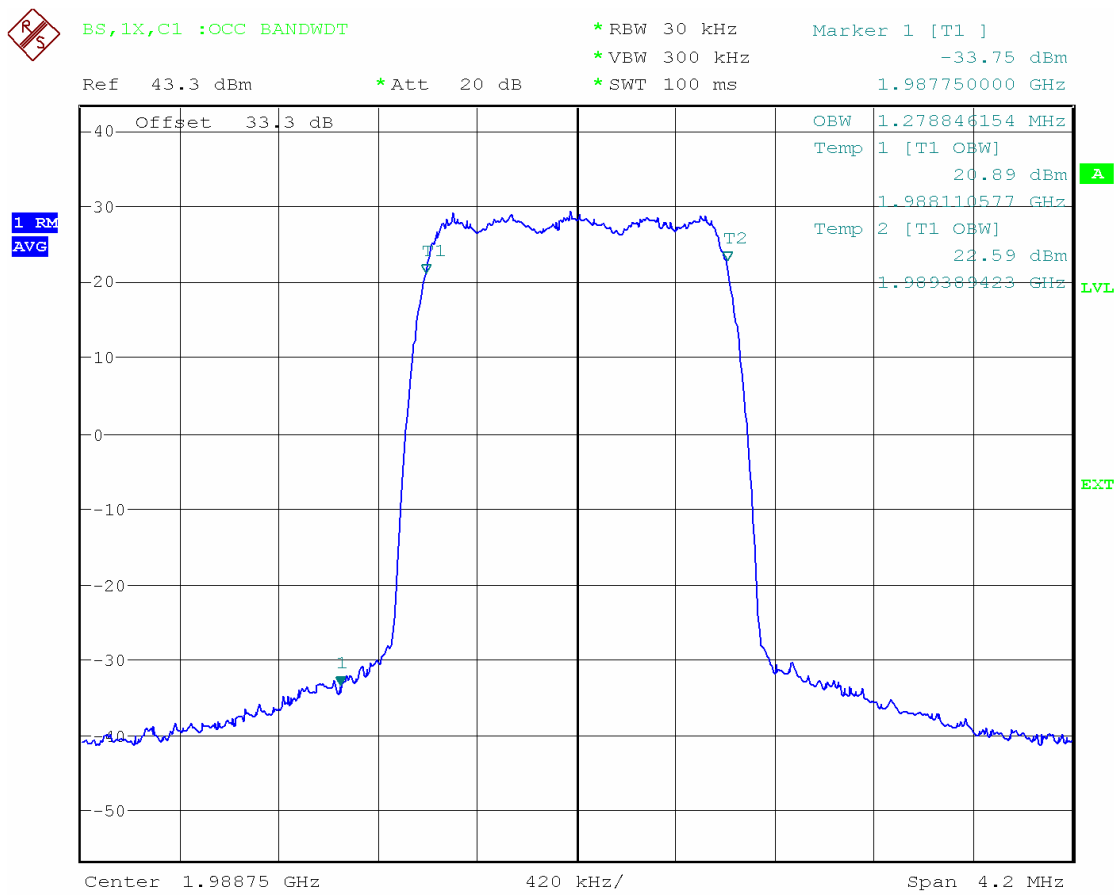
Channel 25



Channel 600



Channel 1175



Appendix D

Spurious Emission at Antenna Terminal Measurements

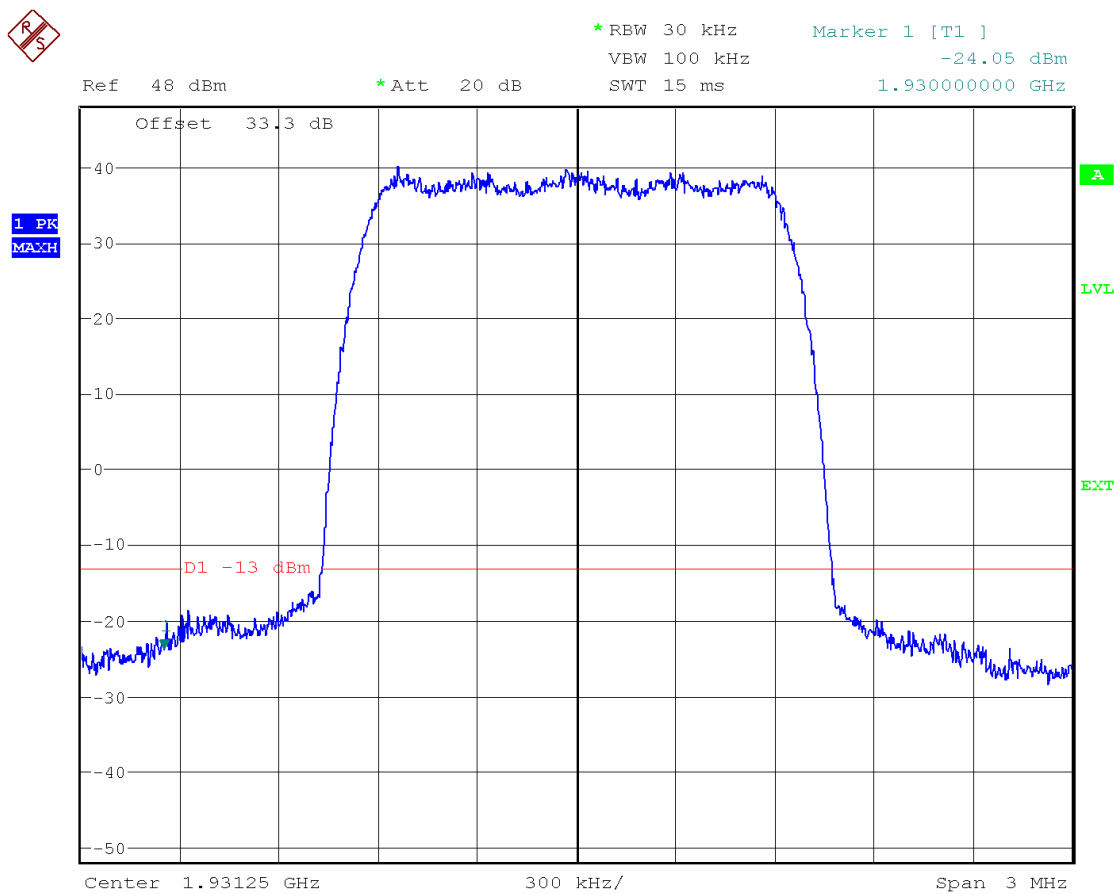
According to CFR 47 (FCC) part 2.1051

Measurement Result at Block Edge

A 、 Test Record For Single Carrier

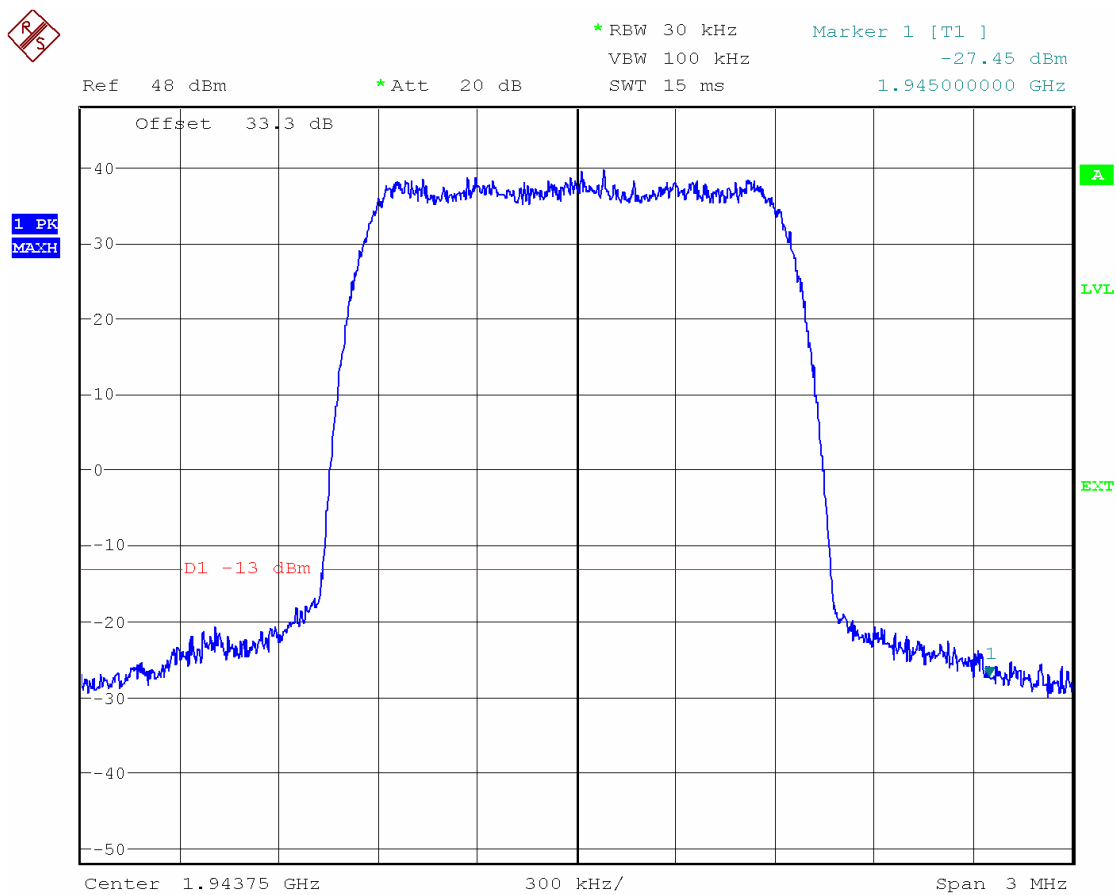
Block A, Left Edge (1930MHz)

Channel 25

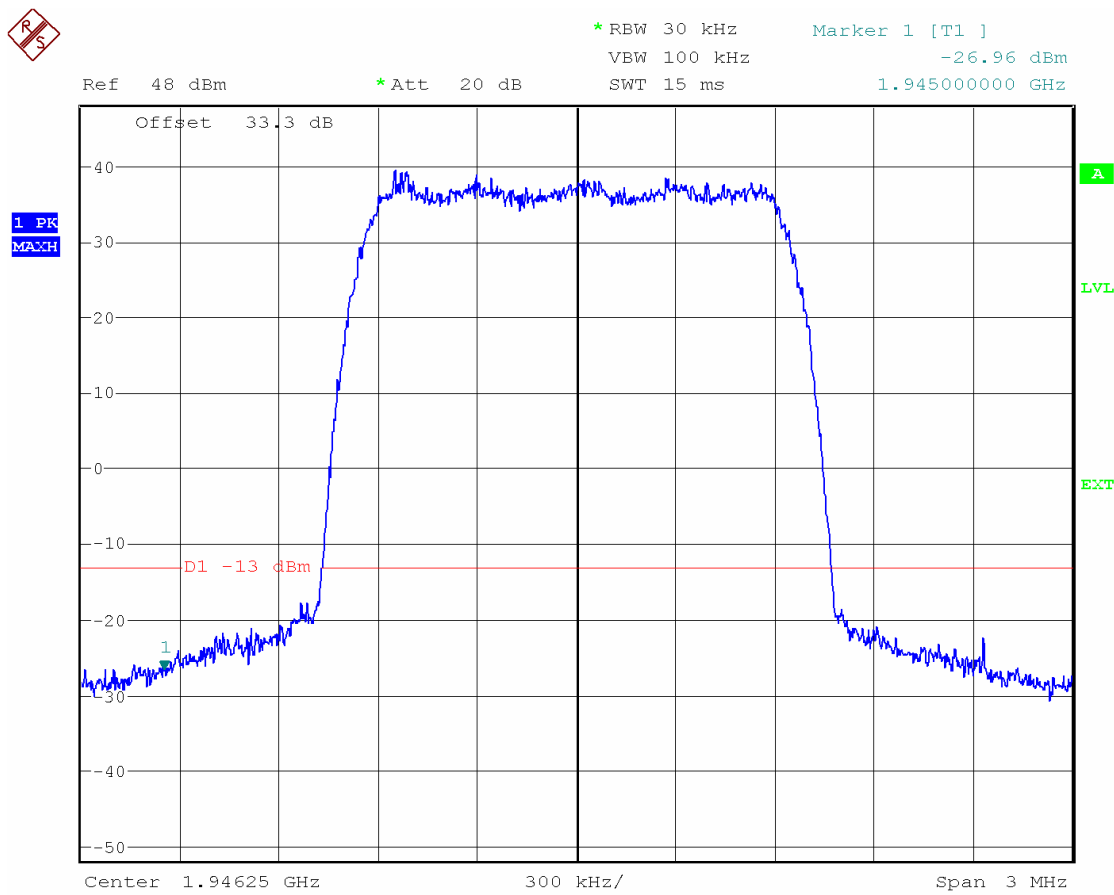


Block A, Right Edge (1945MHz)

Channel 275

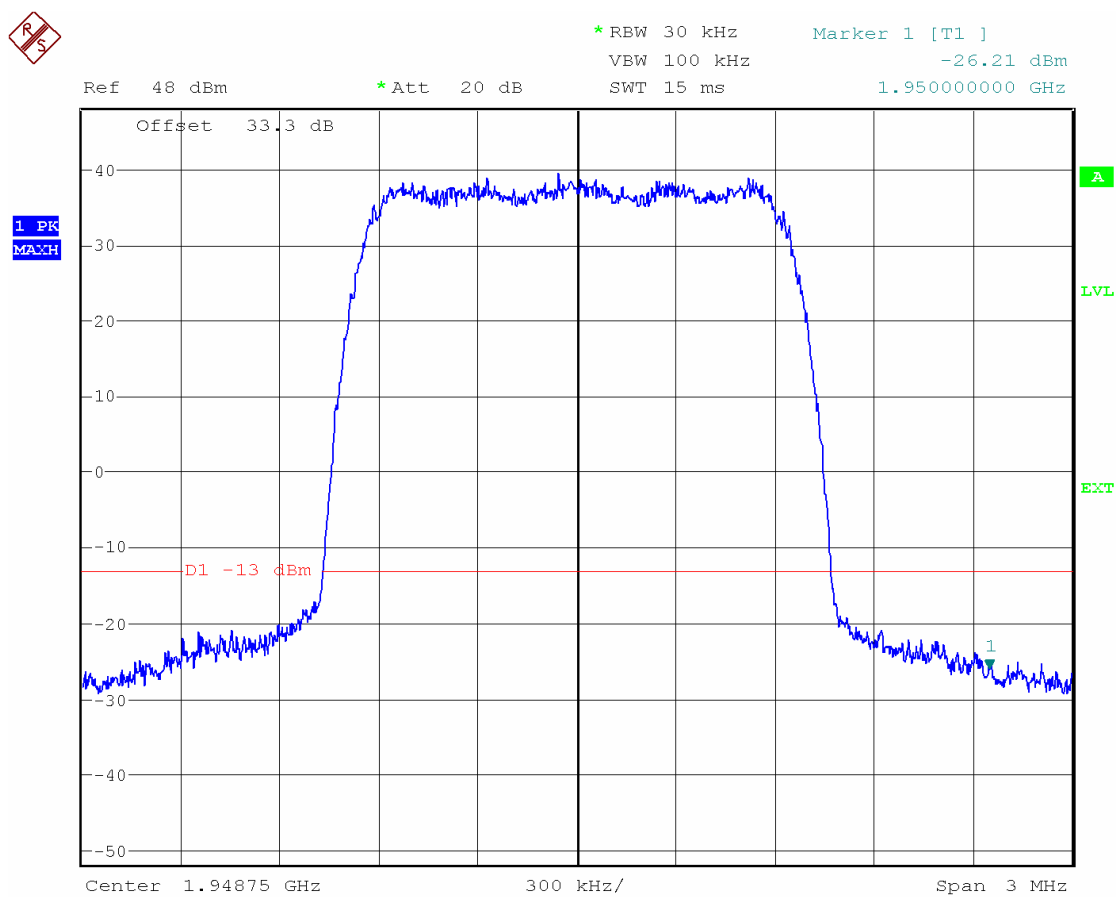


Block D, Left Edge (1945MHz)
Channel 325

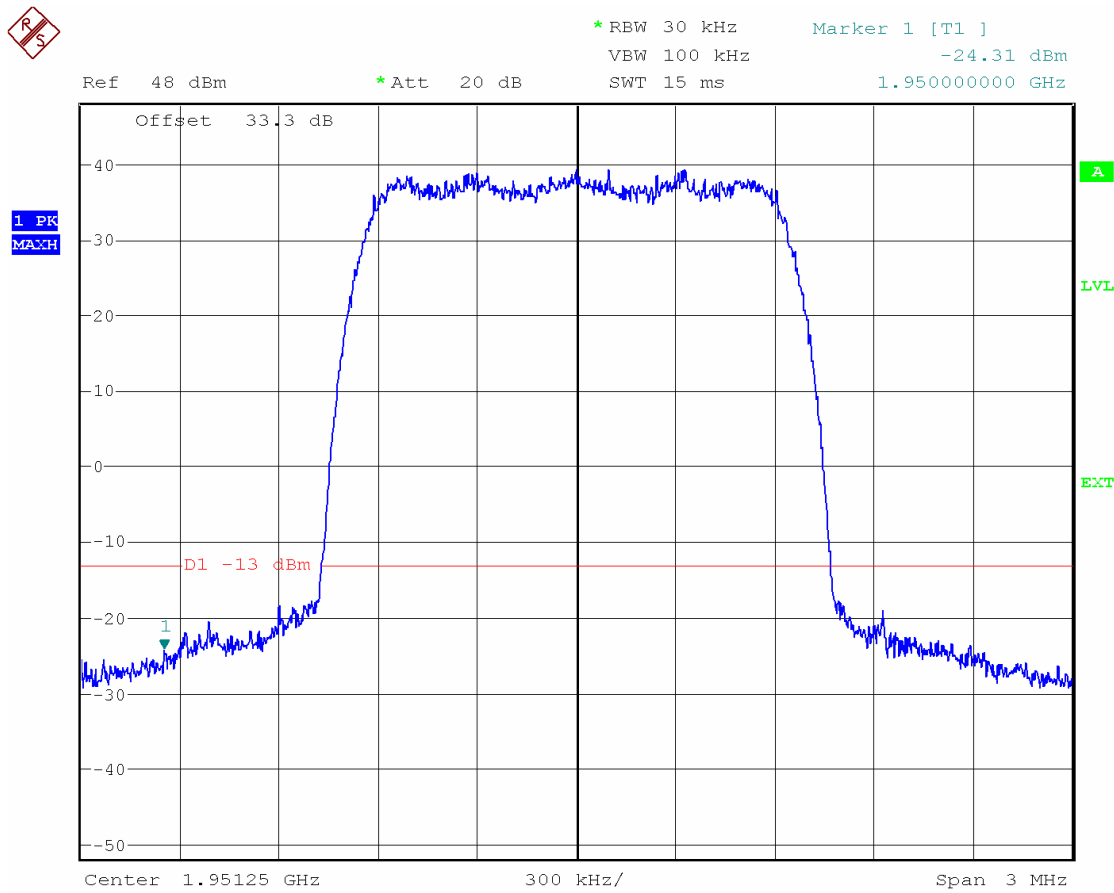


Block D, Right Edge (1950MHz)

Channel 375

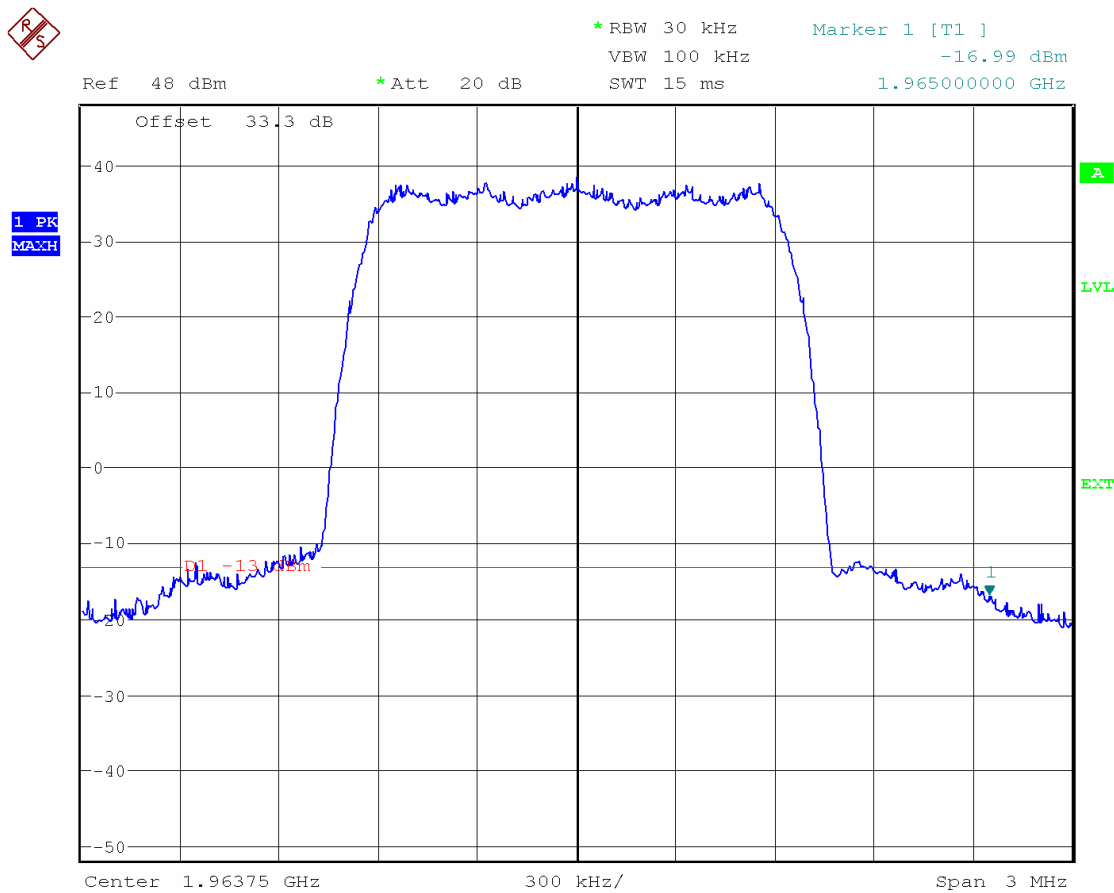


Block B, Left Edge (1950MHz)
Channel 425



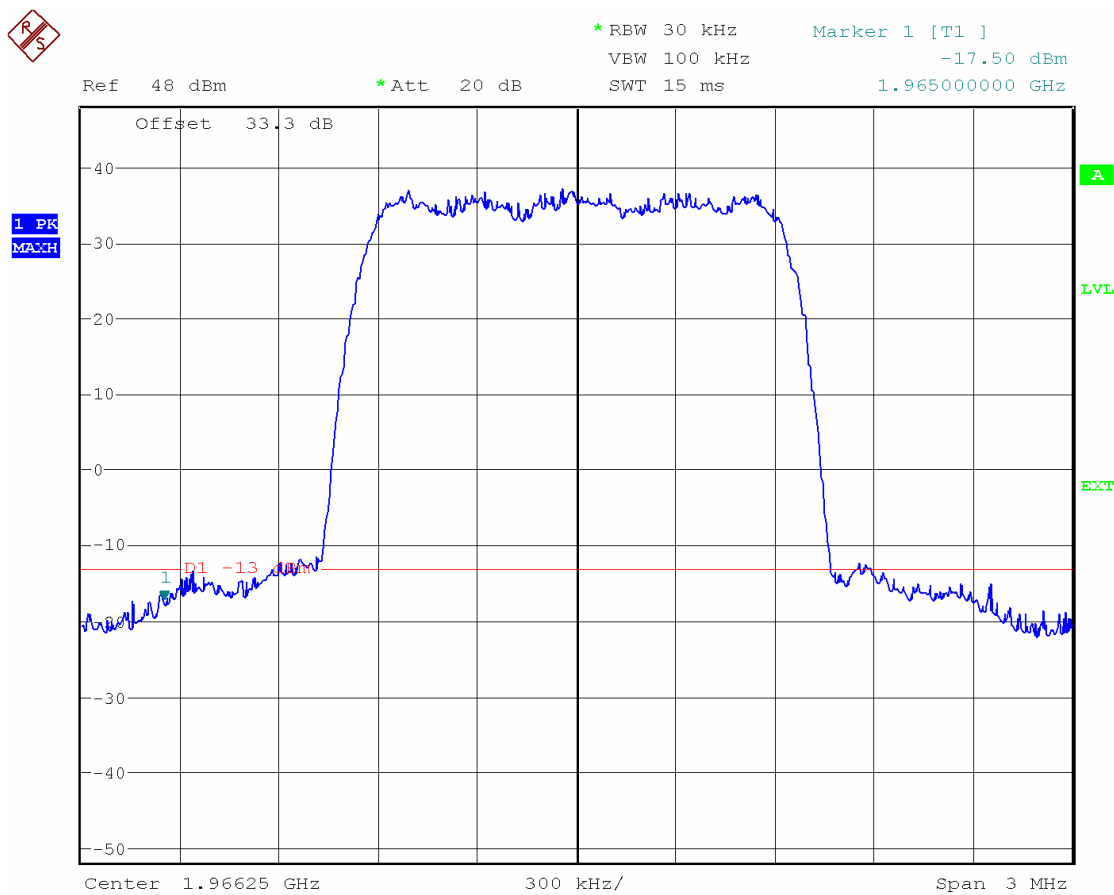
Block B, Right Edge (1965MHz)

Channel 675



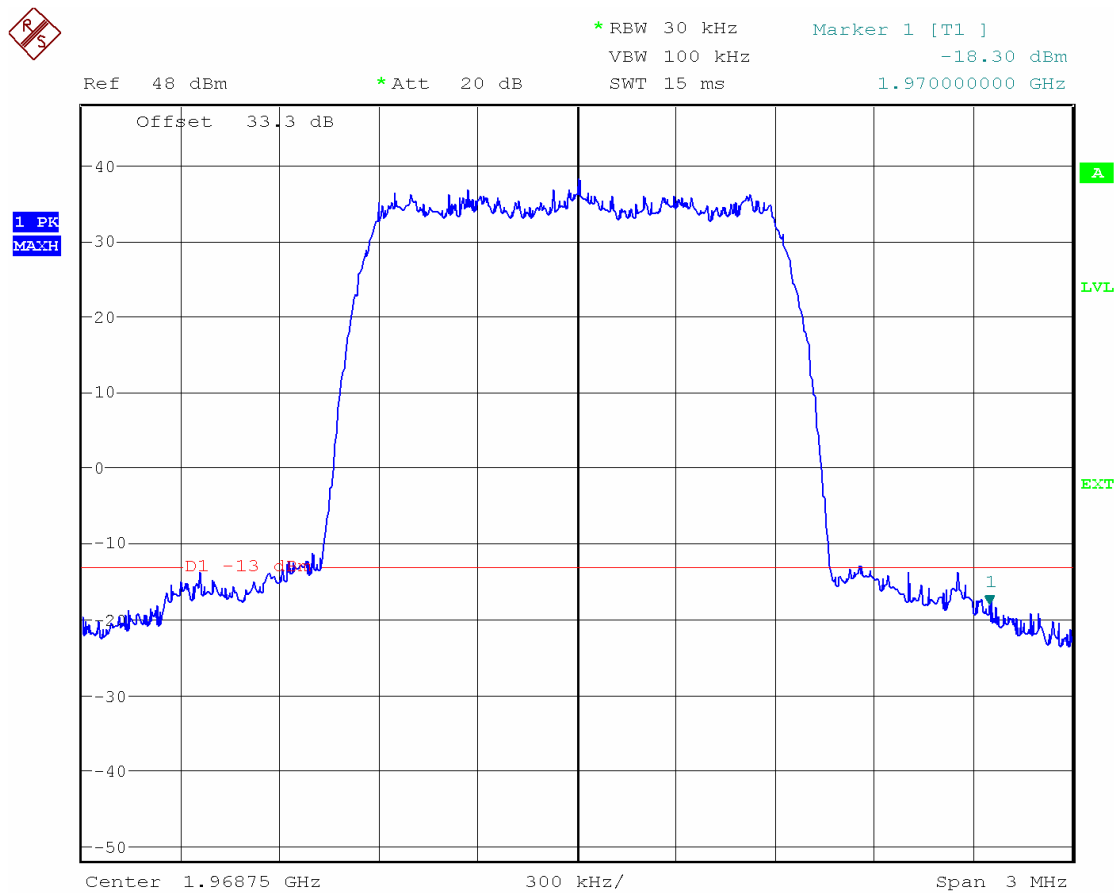
Block E, Left Edge (1965MHz)

Channel 725



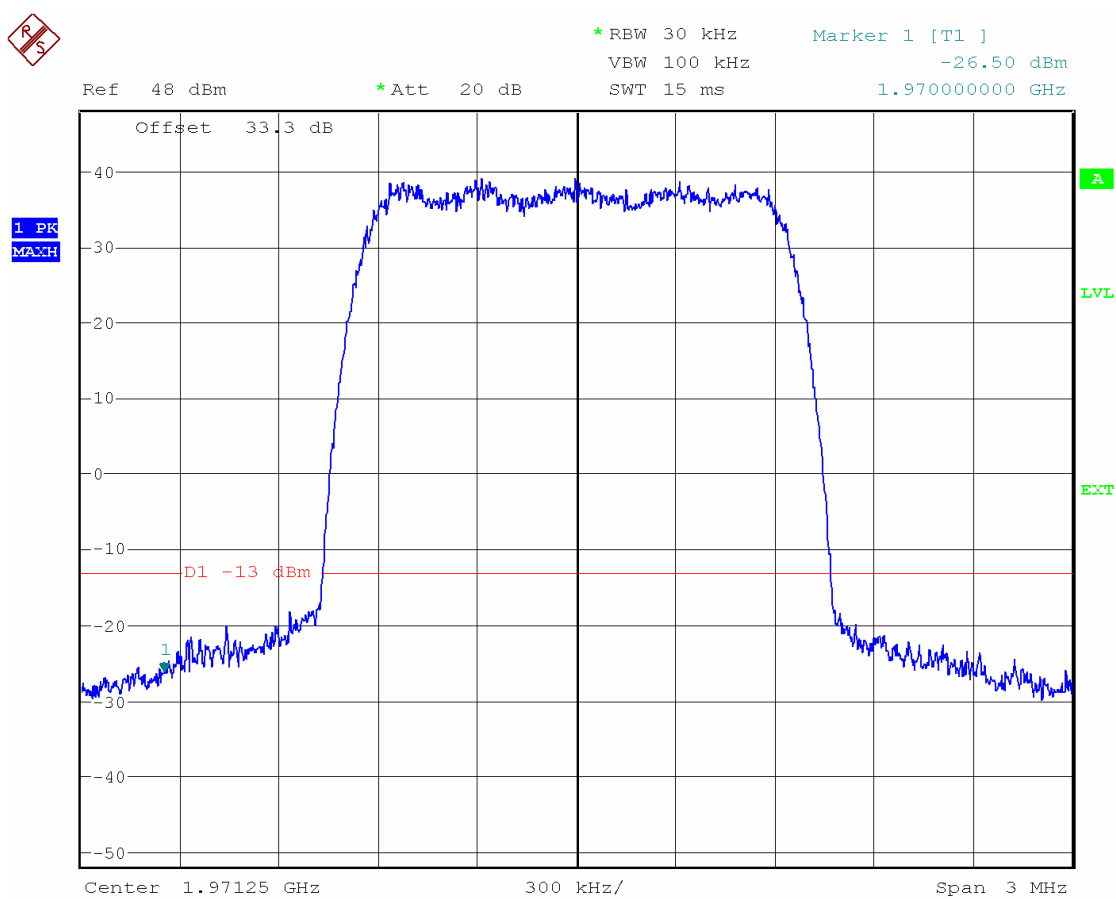
Block E, Right Edge (1970MHz)

Channel 775



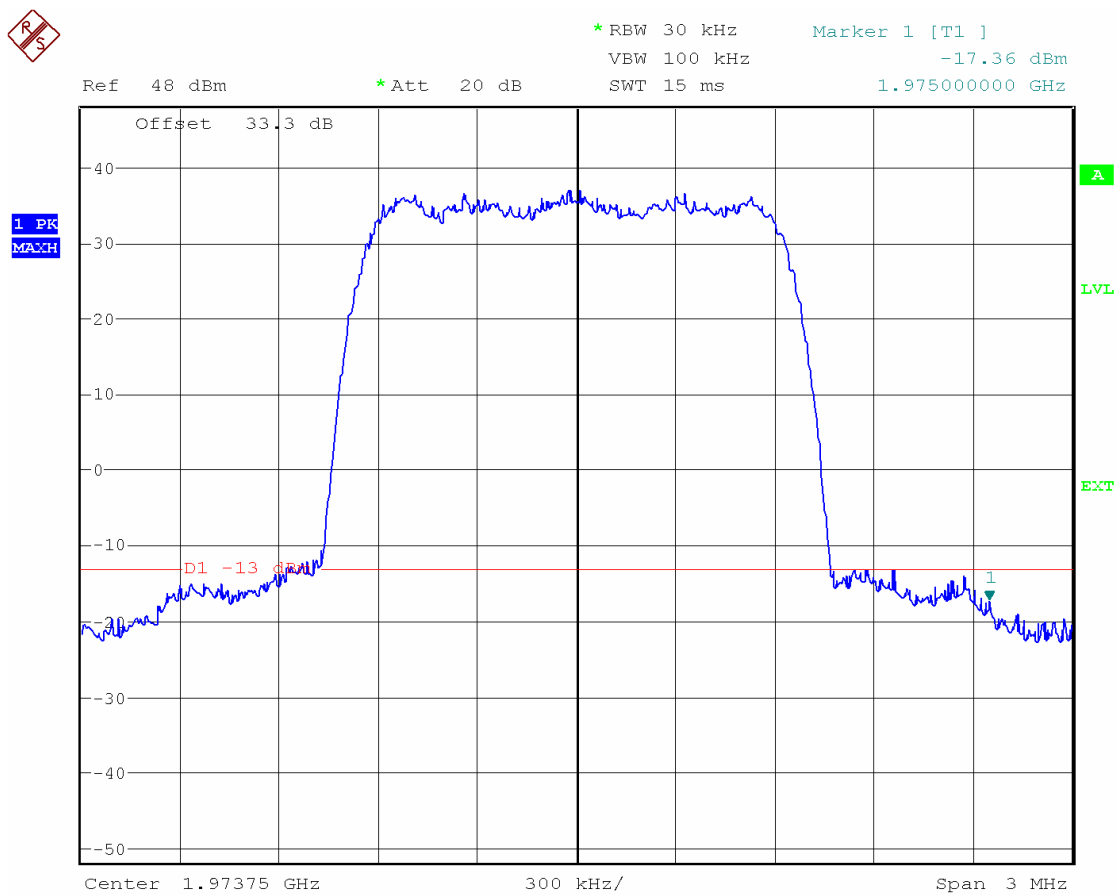
Block F, Left Edge (1970MHz)

Channel 825

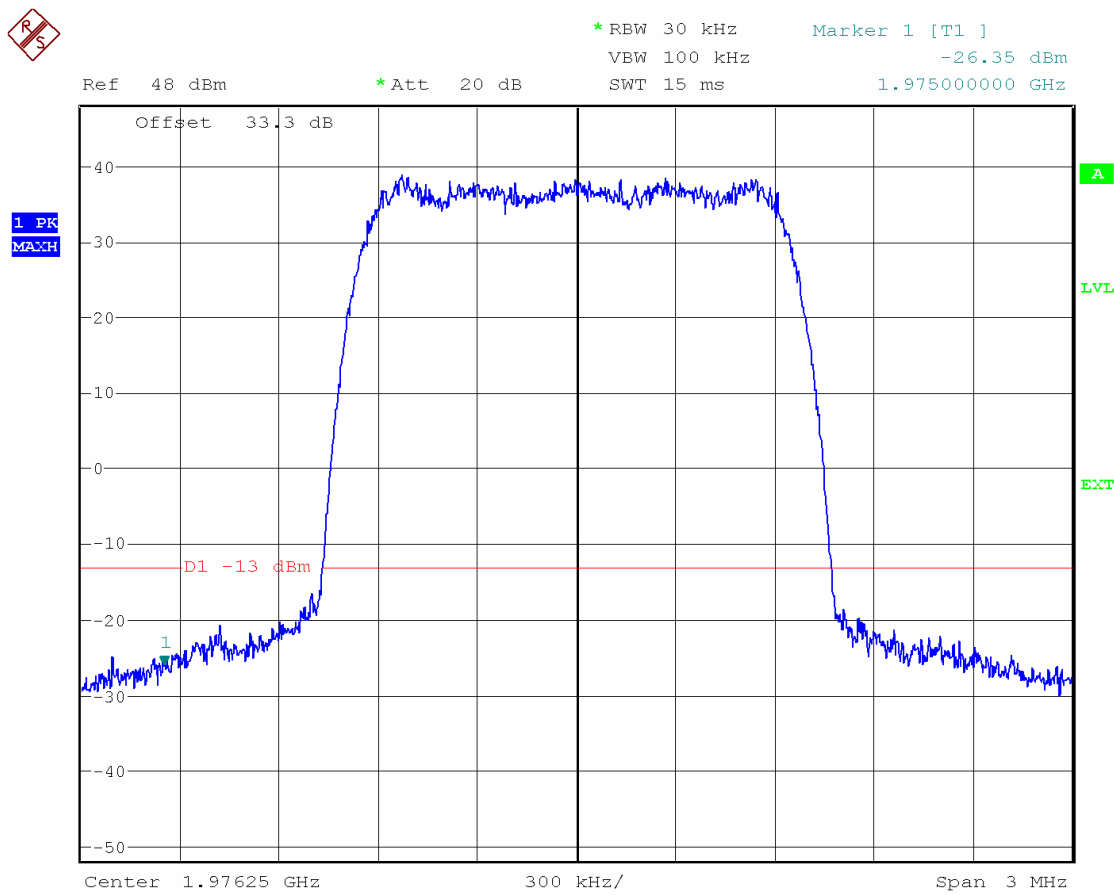


Block F, Right Edge (1975MHz)

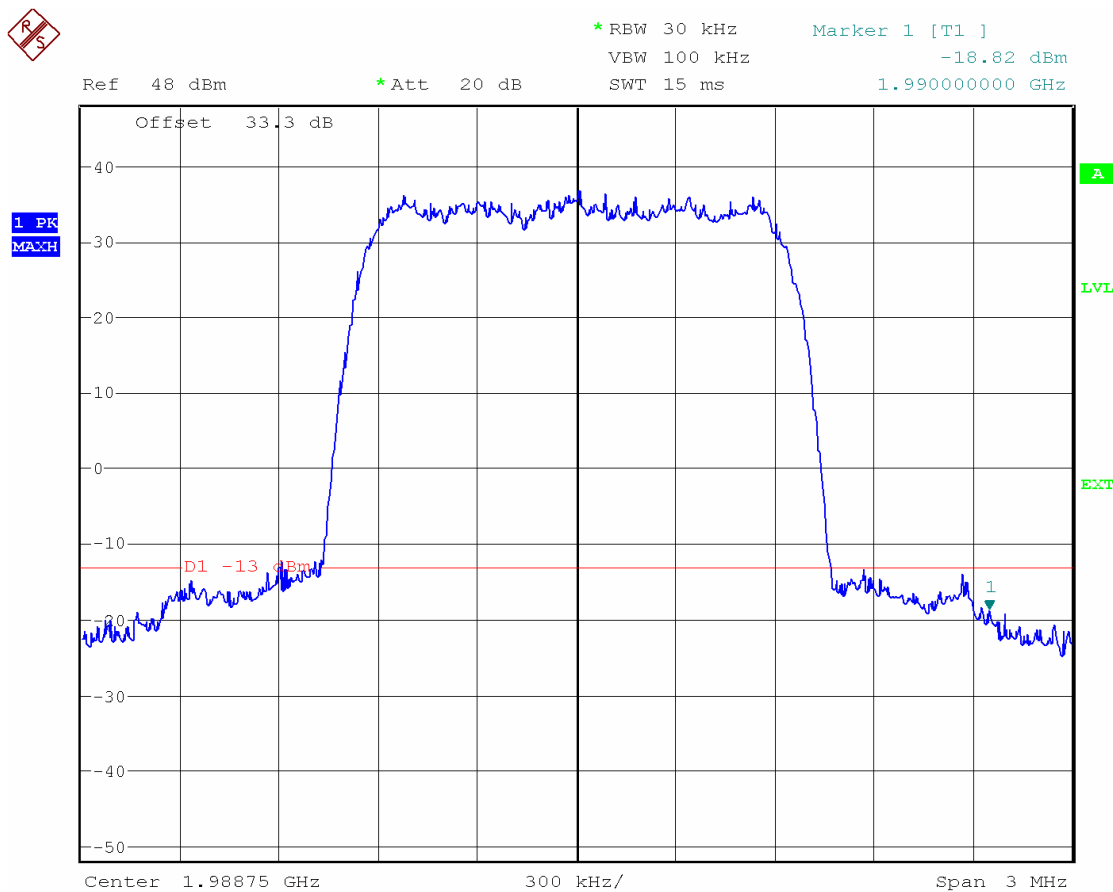
Channel 875



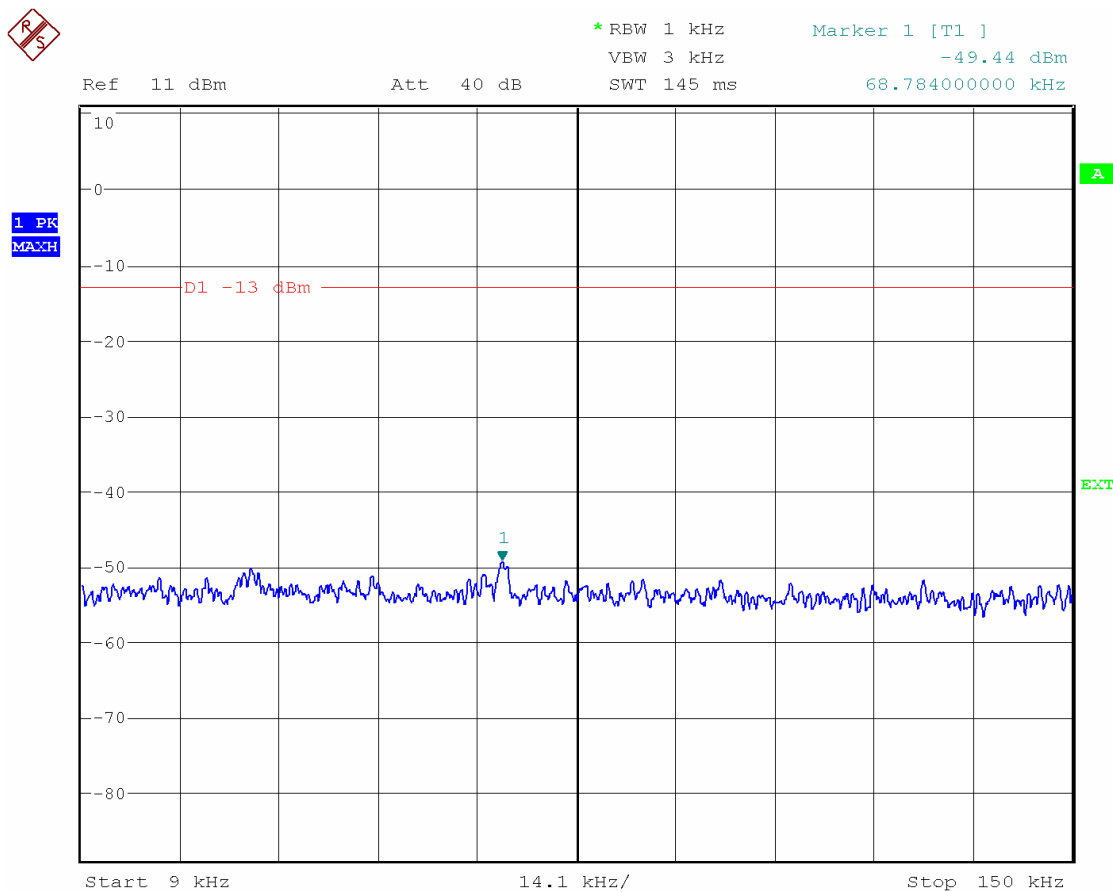
Block C, Left Edge (1975MHz)
Channel 925

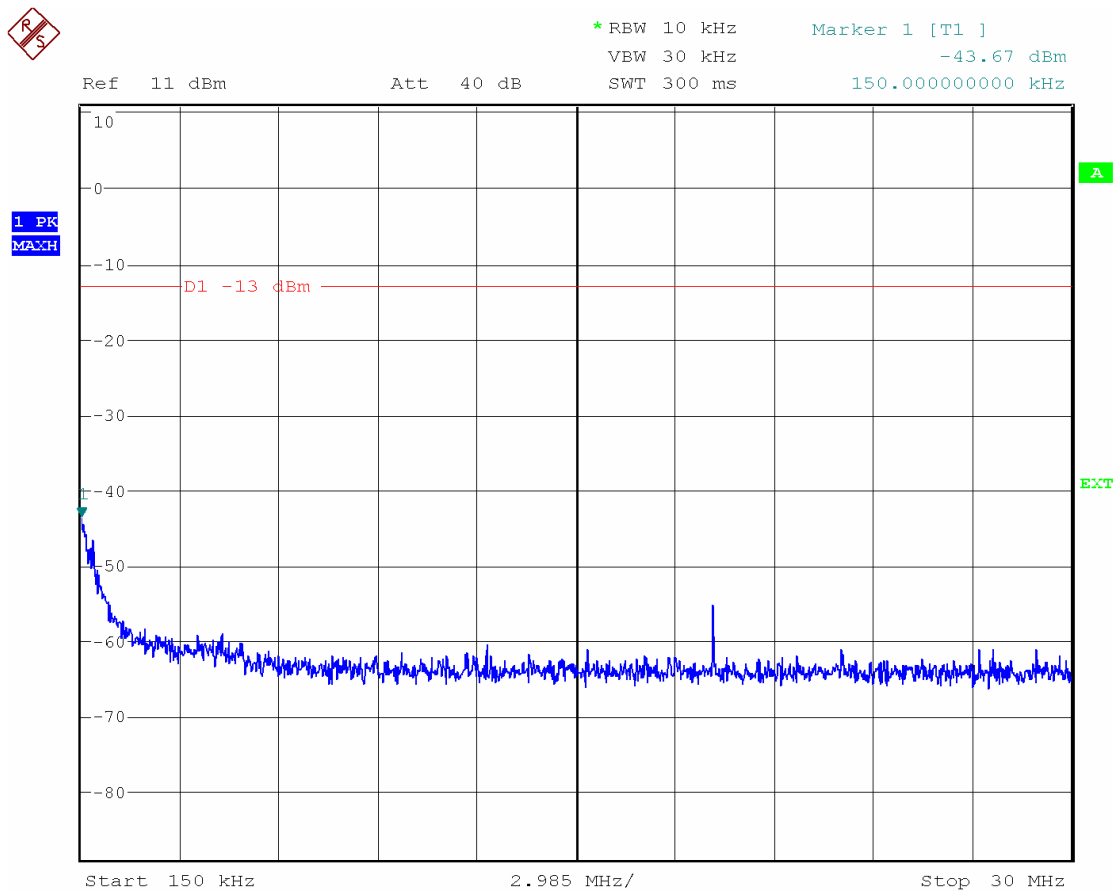


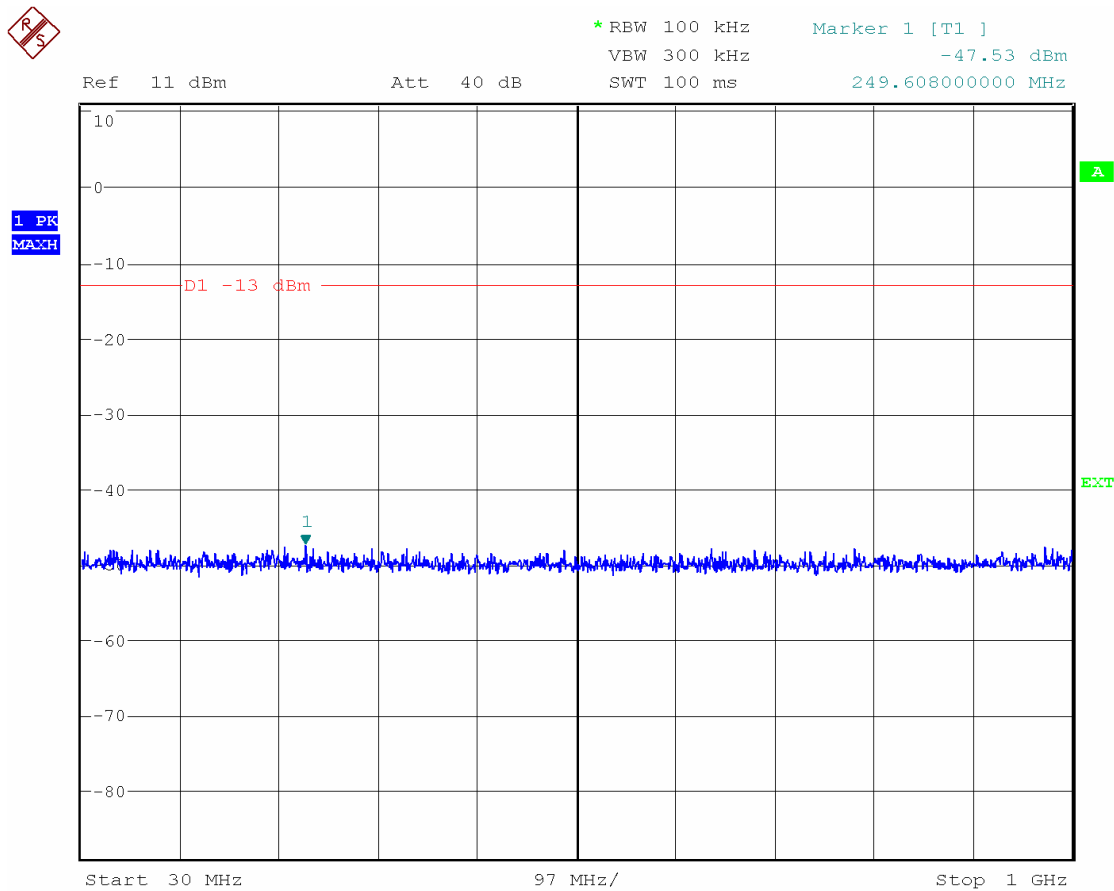
Block C, Right Edge (1990MHz)
Channel 1175

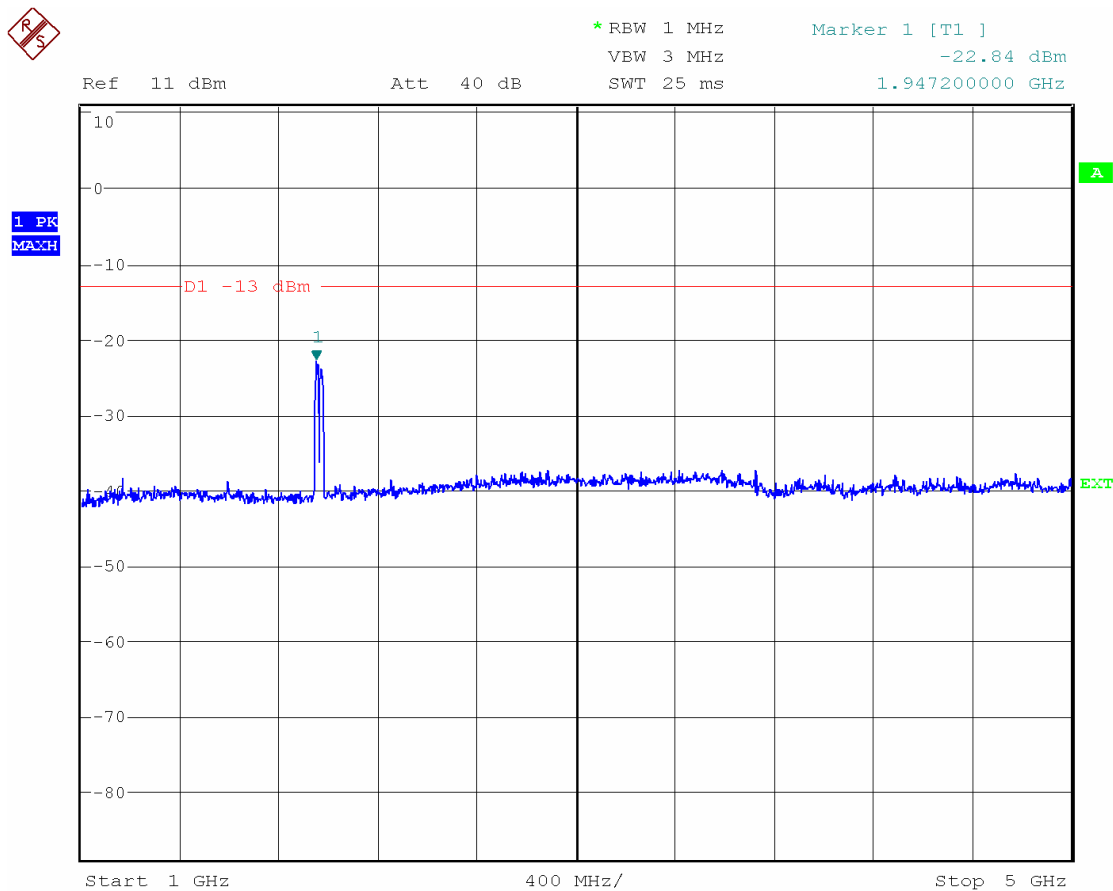


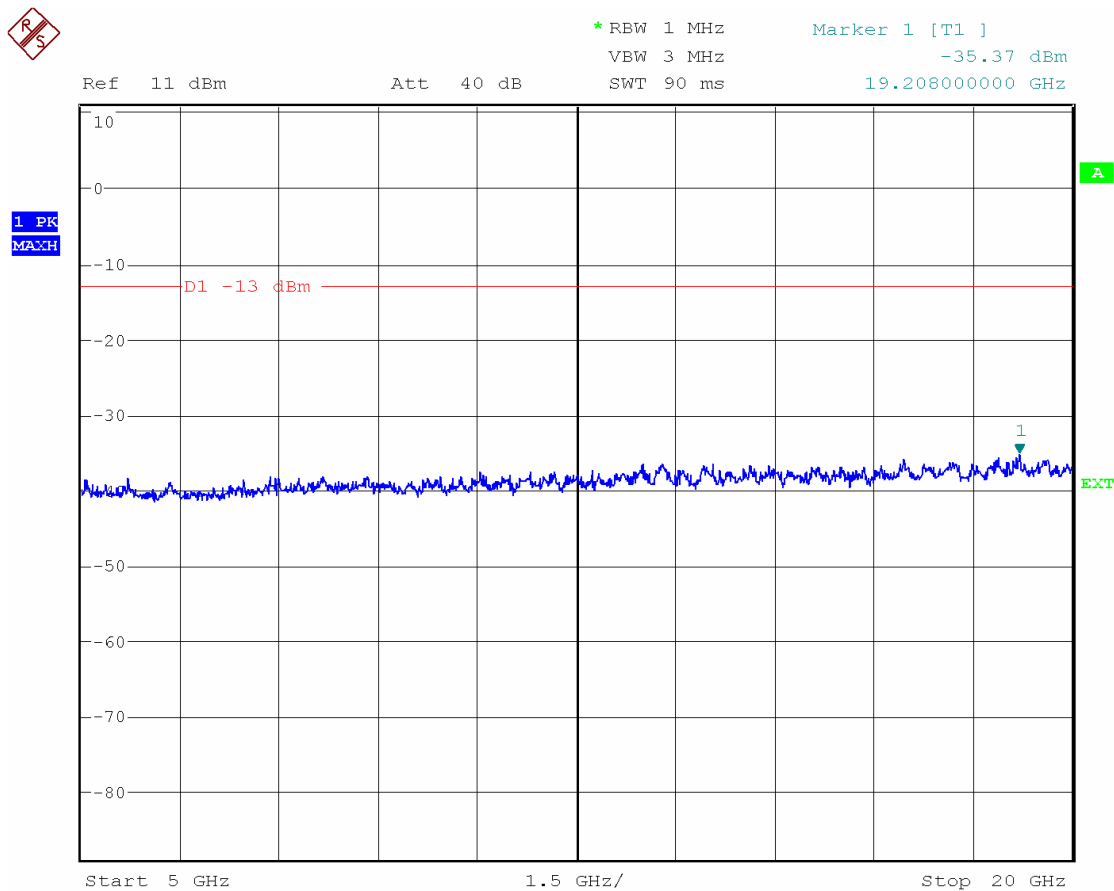
Measurement Result Outband Band Edge
Channel 600



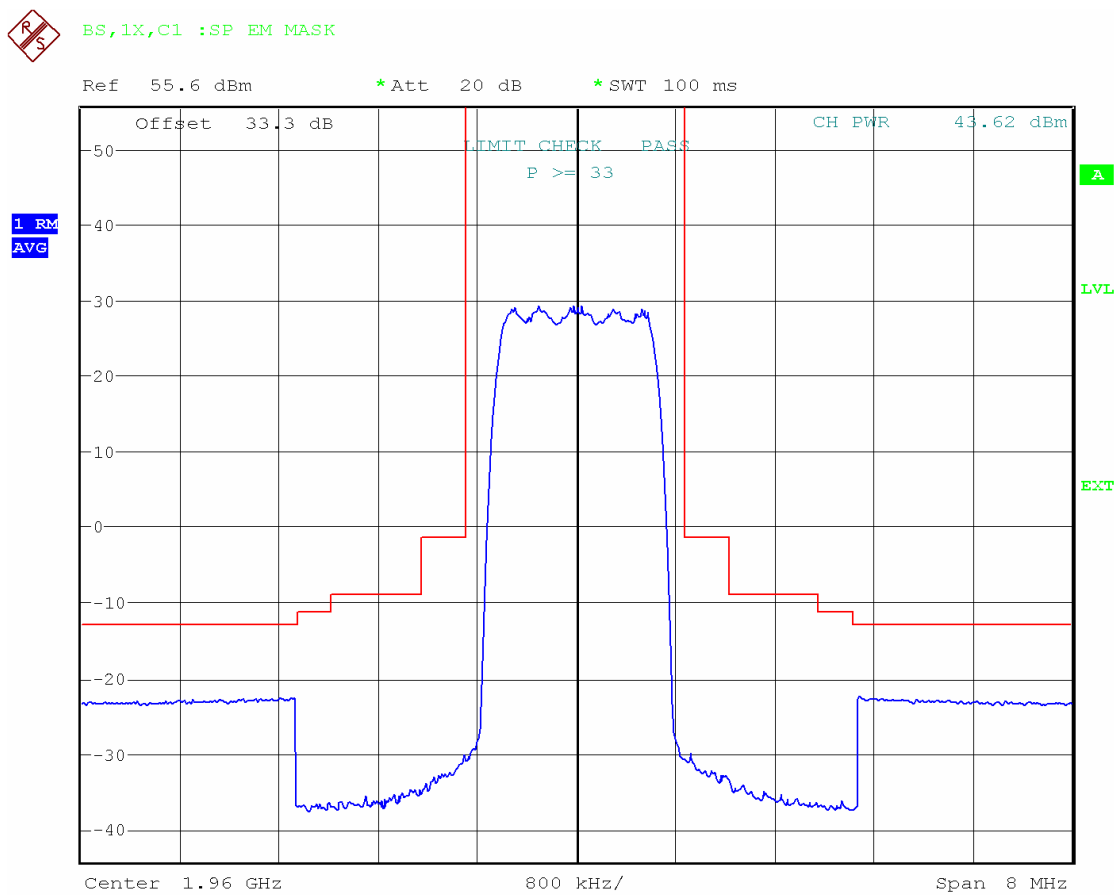








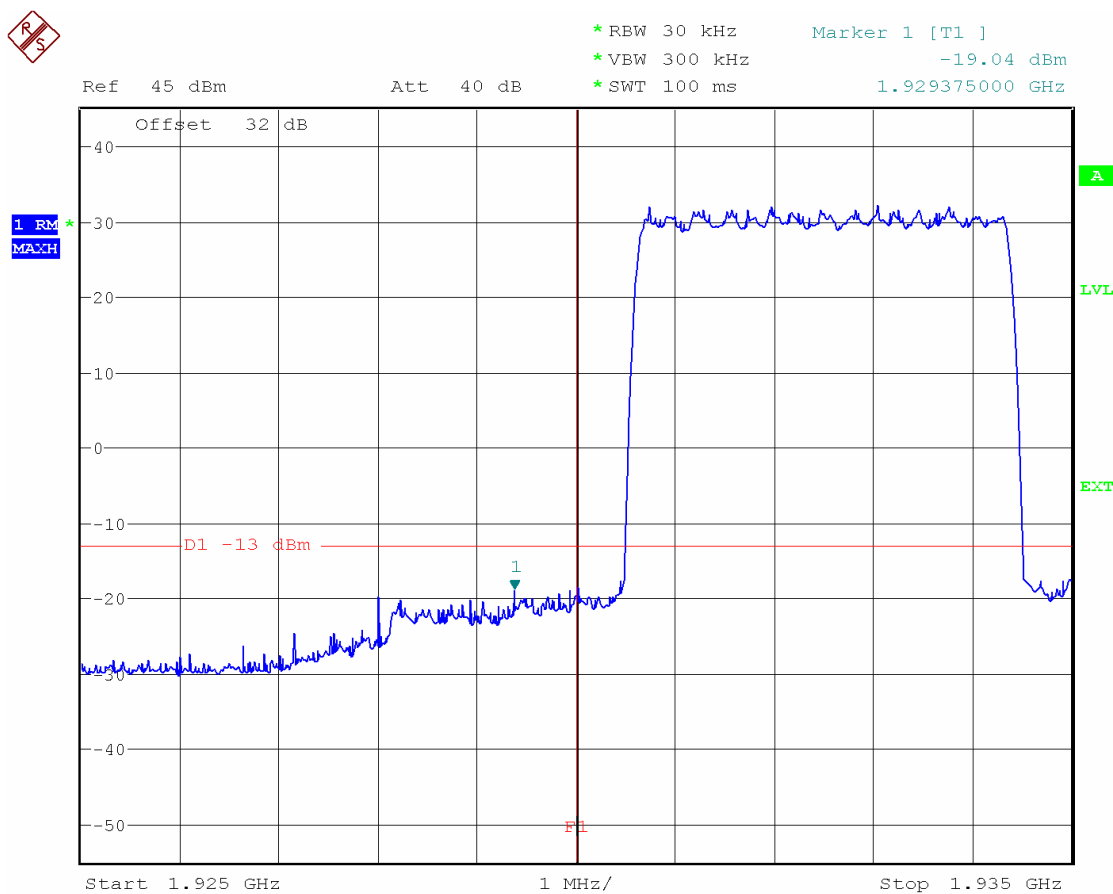
Spectrum Mask Test according to EIA/TIA 97E
Channel 600



B 、 Test Record For Multiple Carrier

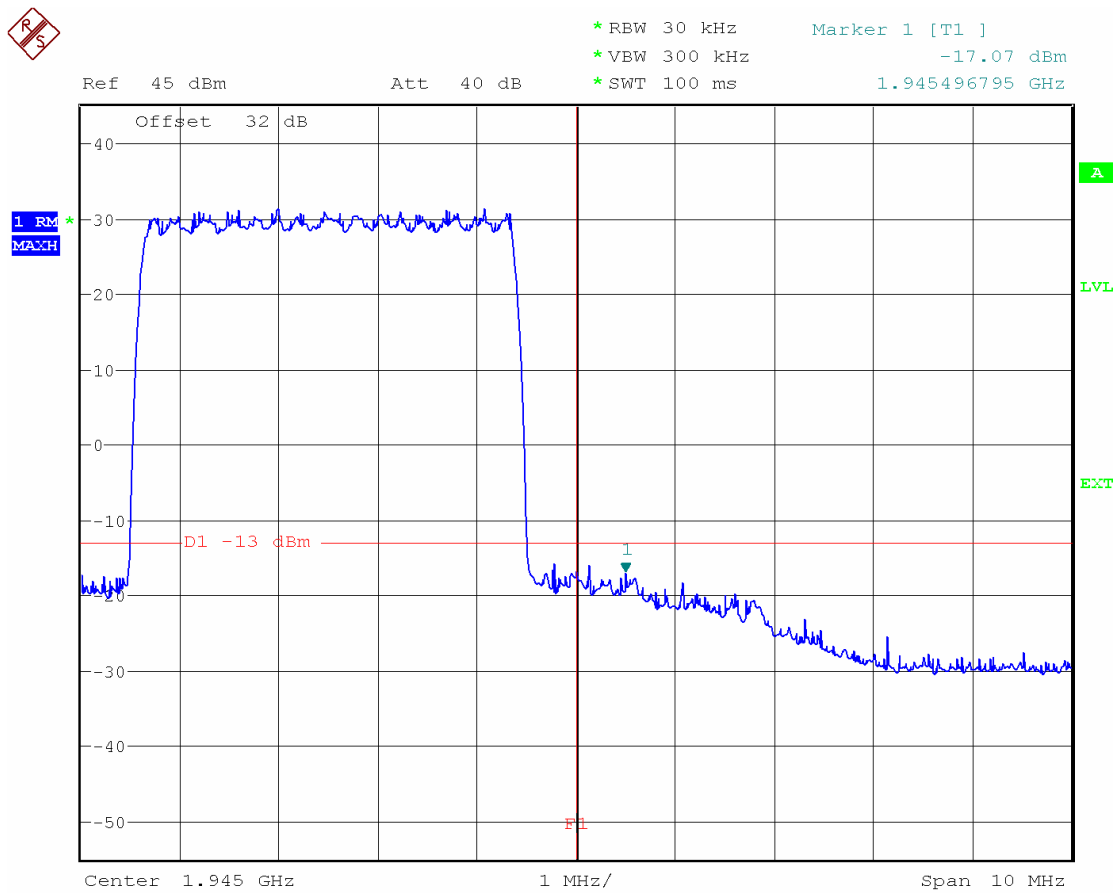
Block A, Left Edge (1930MHz)

Channel 25/50/75



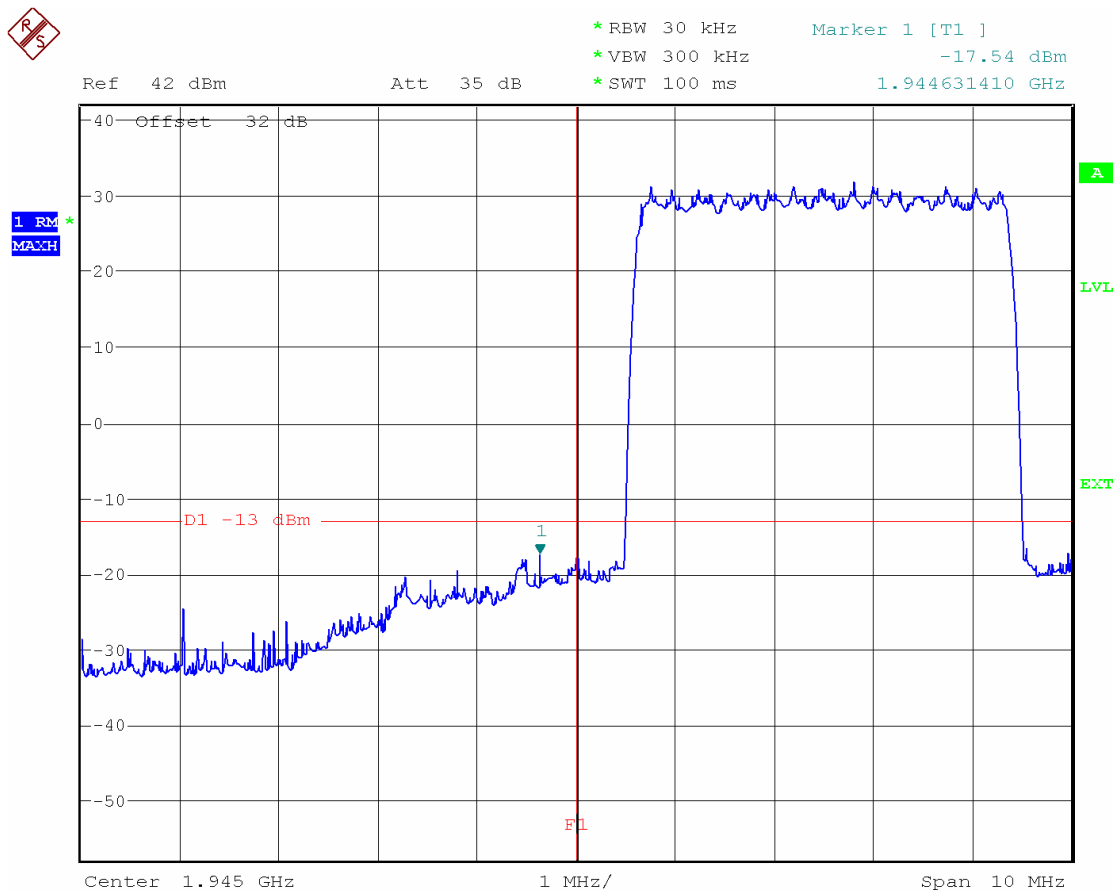
Block A, Right Edge (1945MHz)

Channel 225/250/275



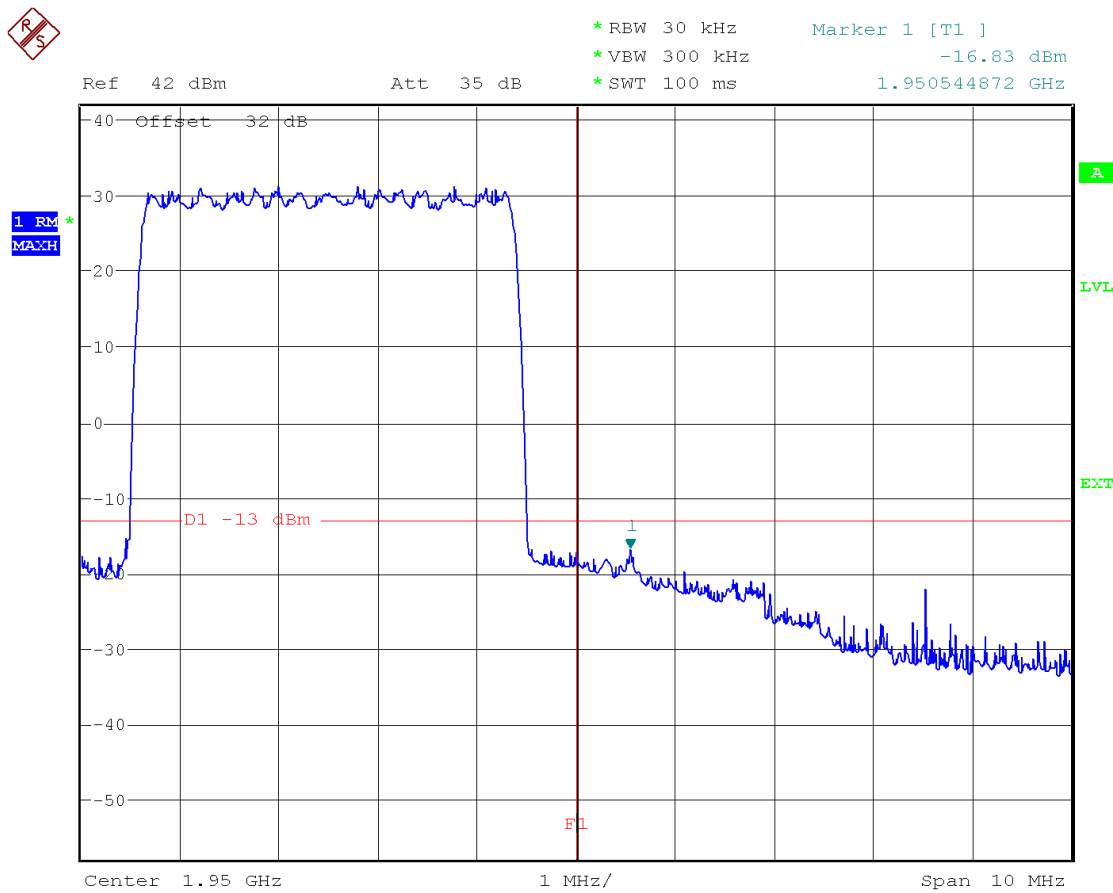
Block D, Left Edge (1945MHz)

Channel 325/350/375



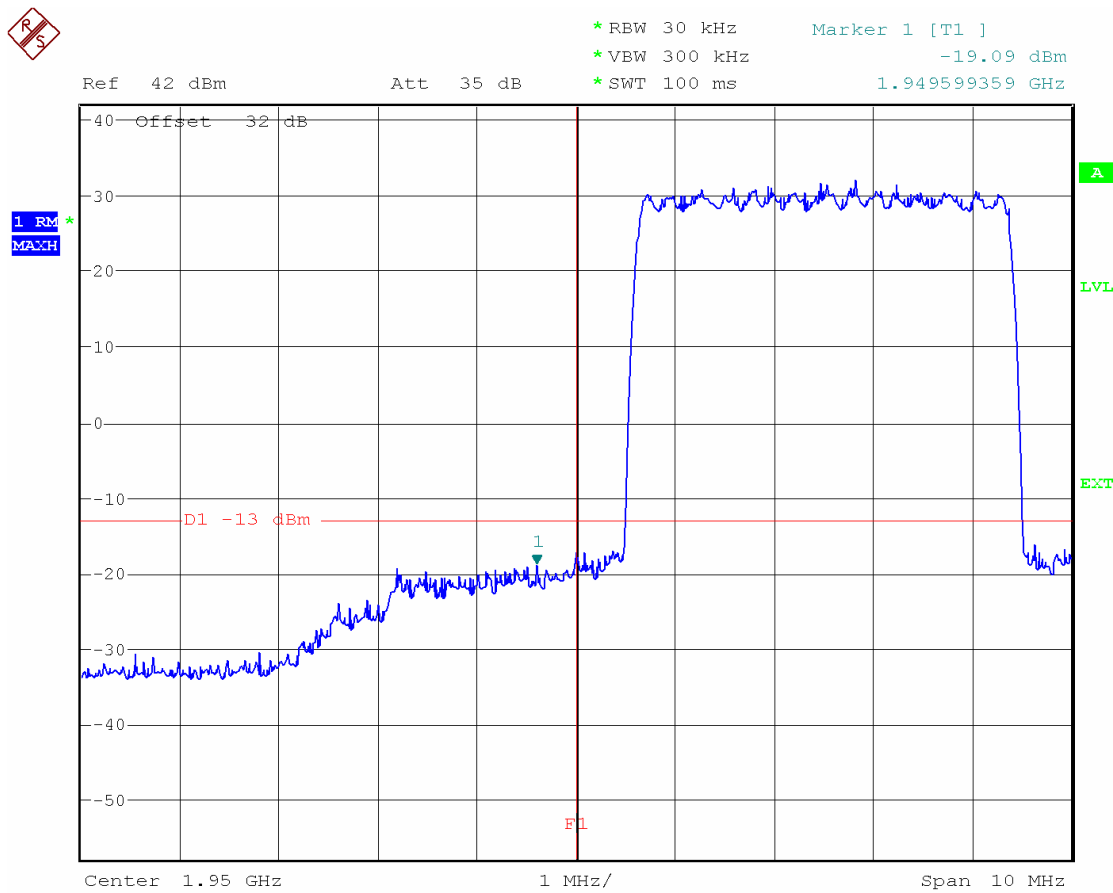
Block D, Right Edge (1950MHz)

Channel 325/350/375



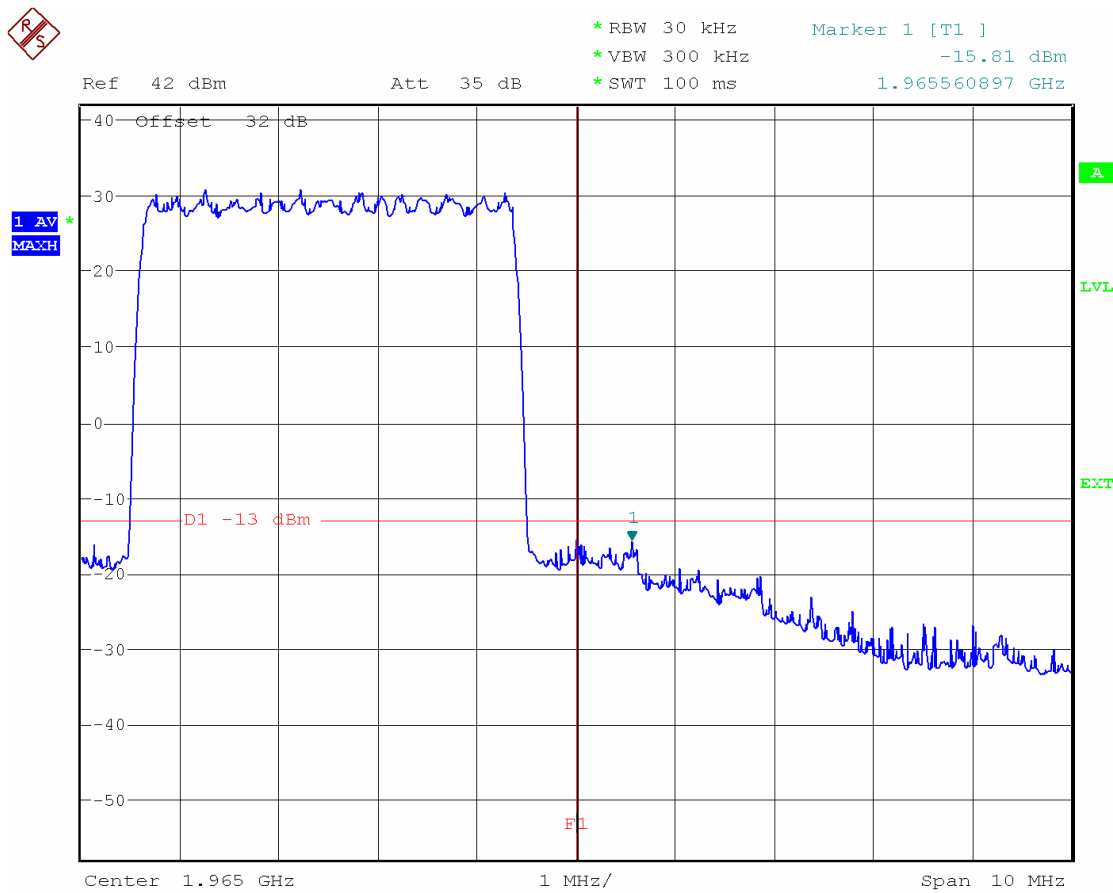
Block B, Left Edge (1950MHz)

Channel 425/450/475



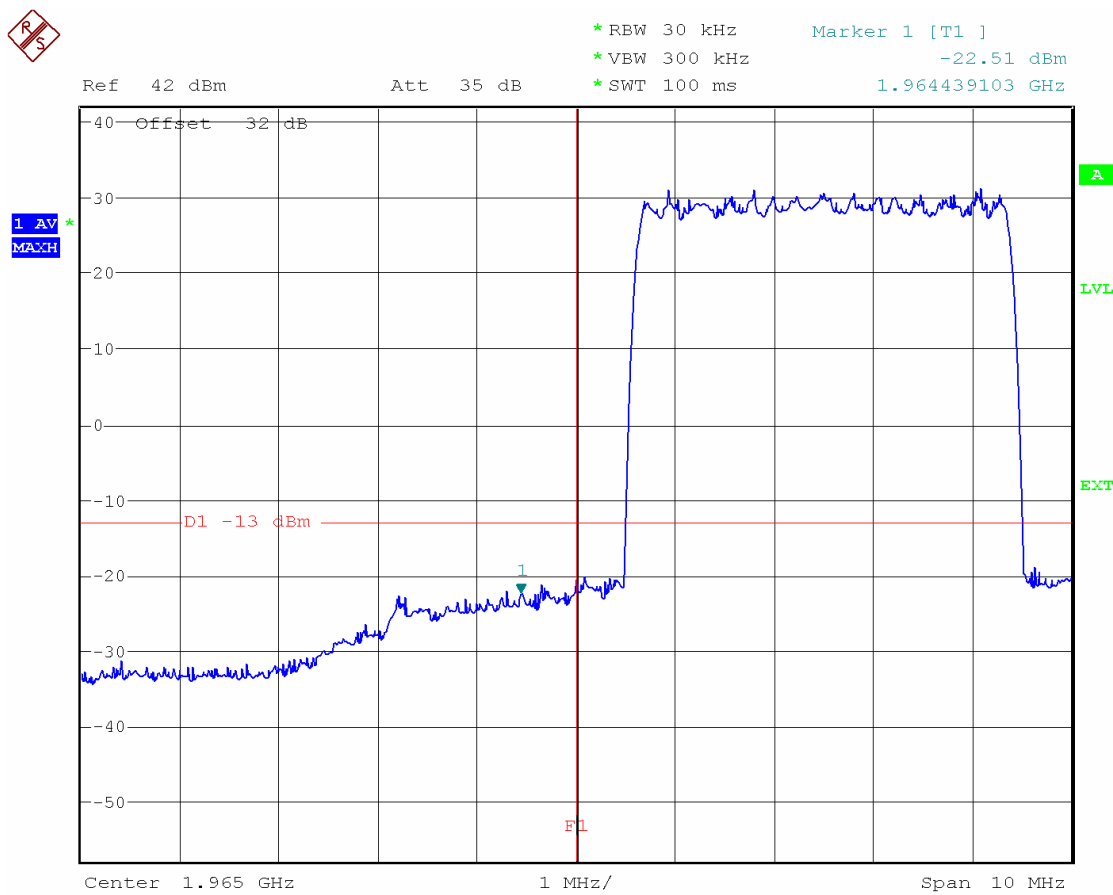
Block B, Right Edge (1965MHz)

Channel 625/650/675



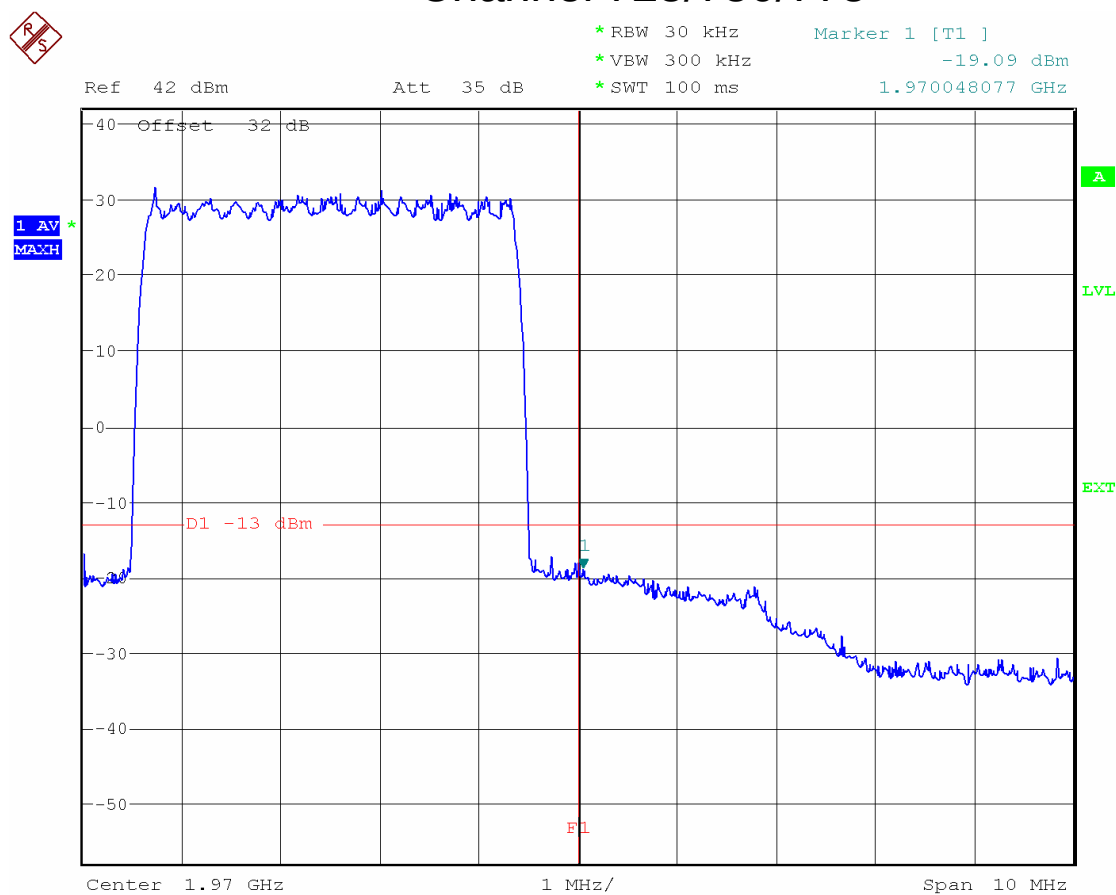
Block E, Left Edge (1965MHz)

Channel 725/750/775



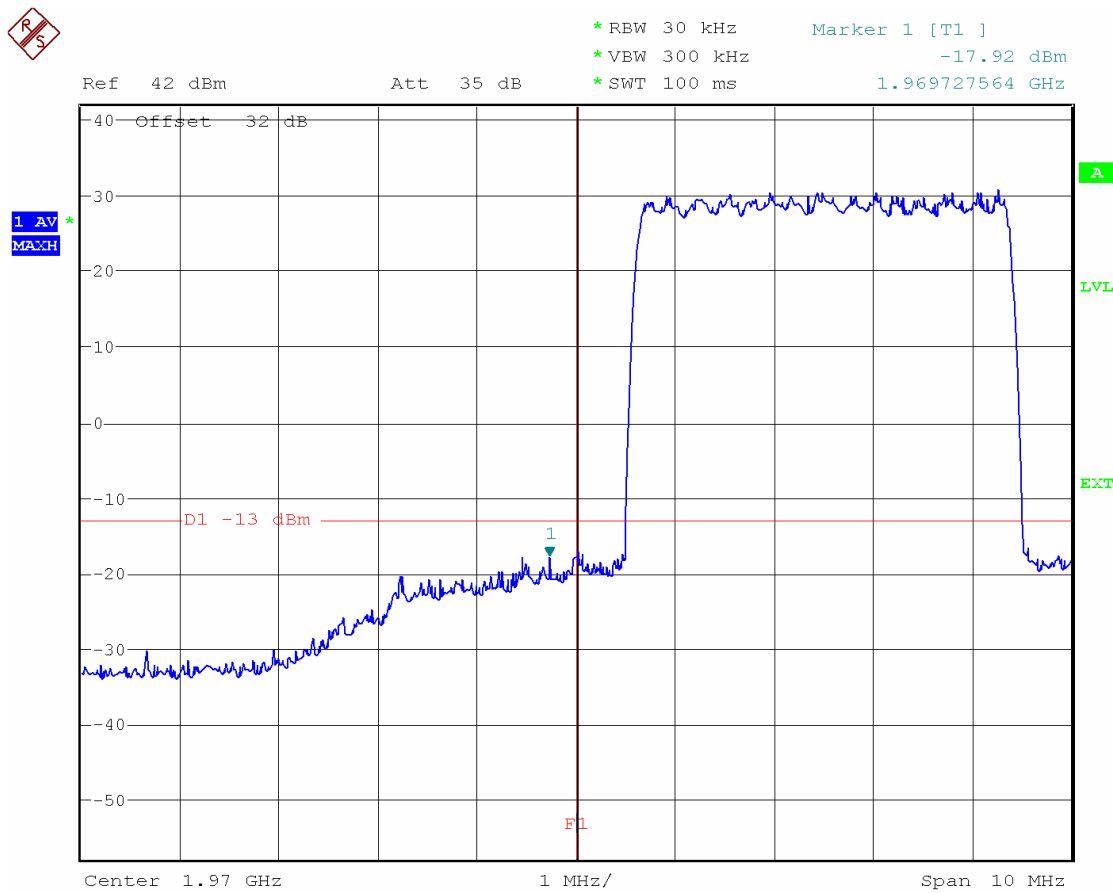
Block E, Right Edge (1970MHz)

Channel 725/750/775



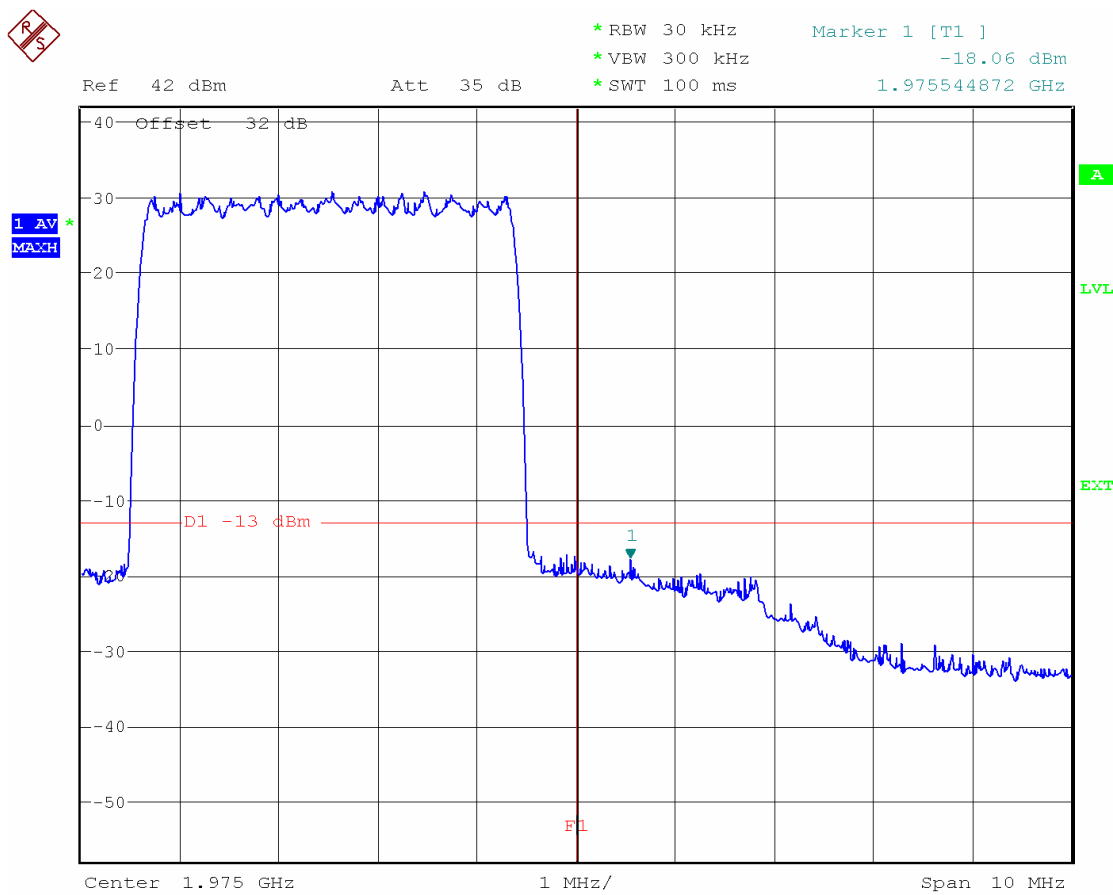
Block F, Left Edge (1970MHz)

Channel 825/850/875



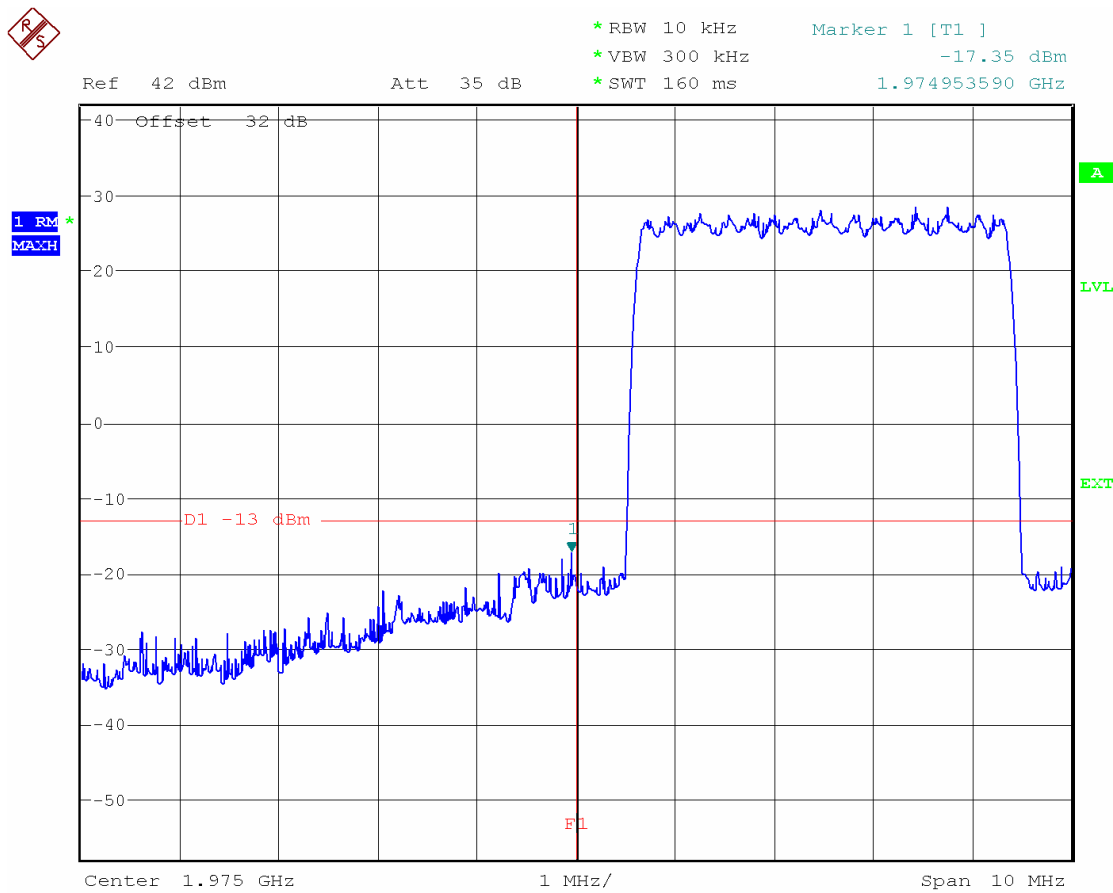
Block F, Right Edge (1975MHz)

Channel 825/850/875



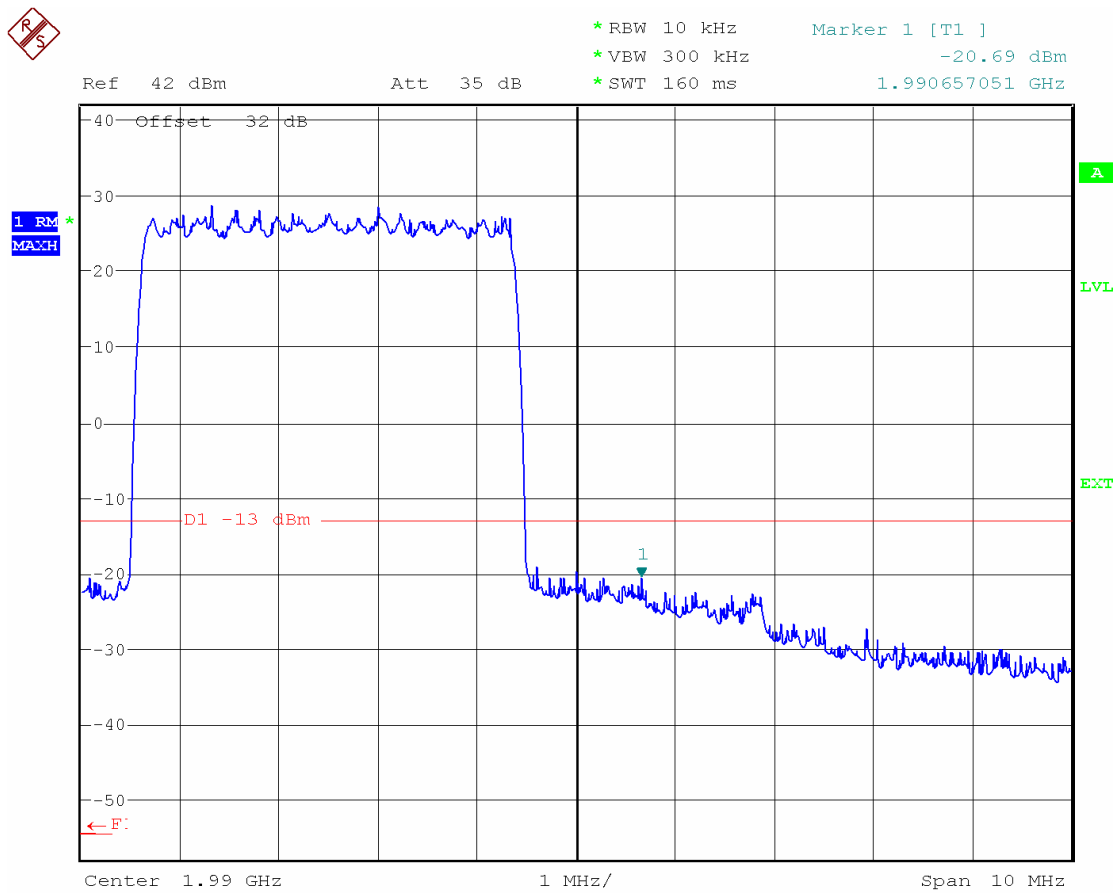
Block C, Left Edge (1975MHz)

Channel 925/950/975



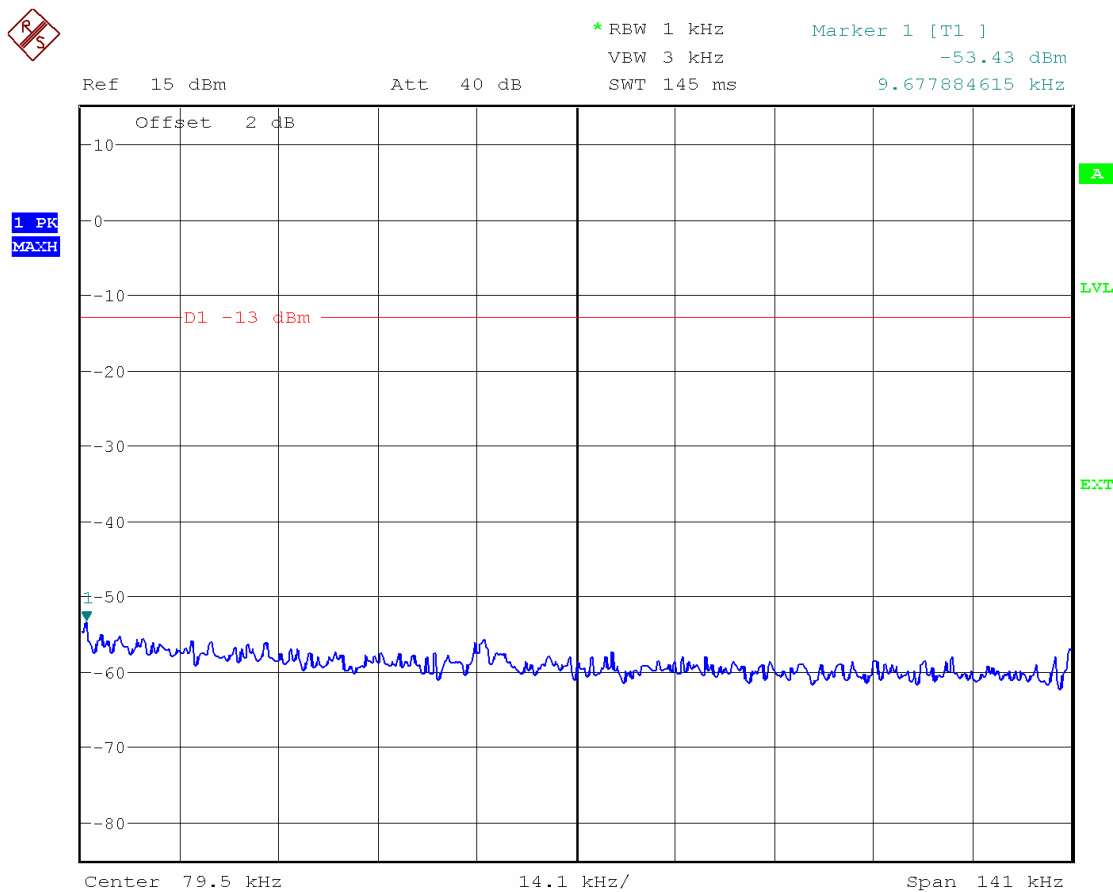
Block C, Right Edge (1990MHz)

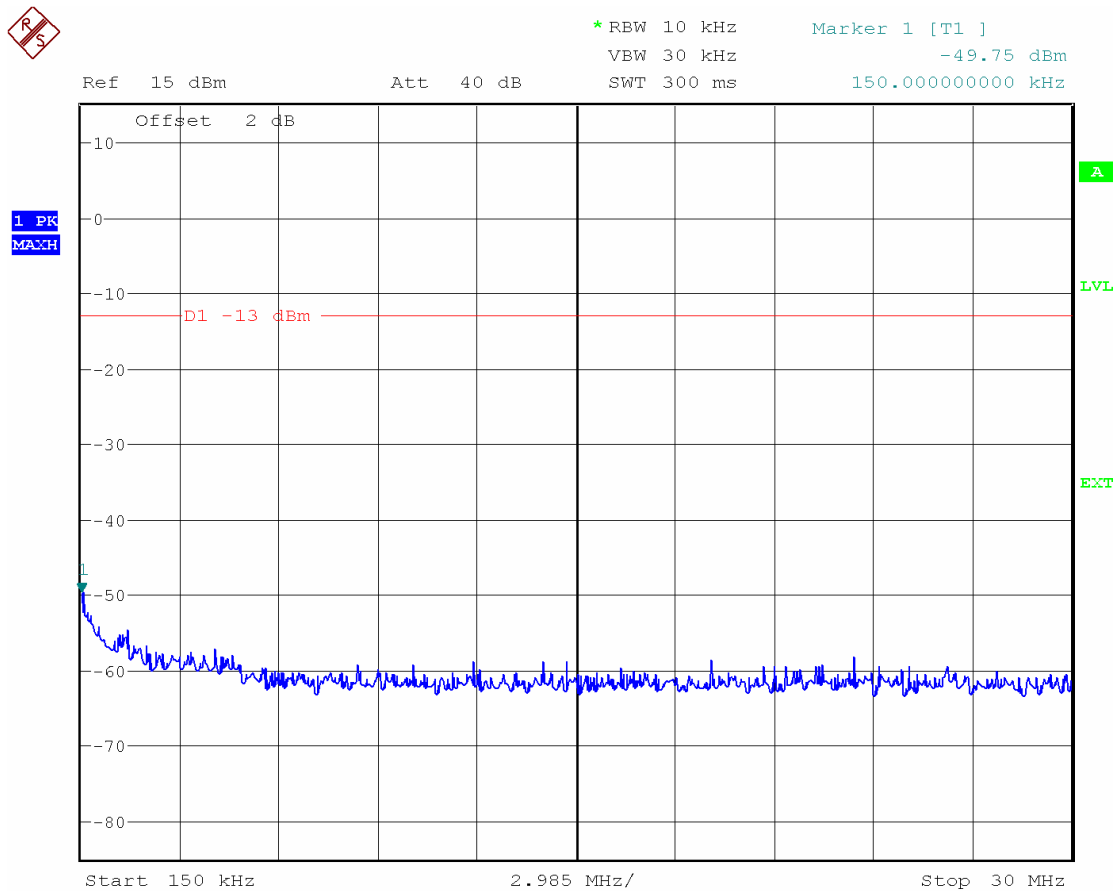
Channel 1125/1150/1175

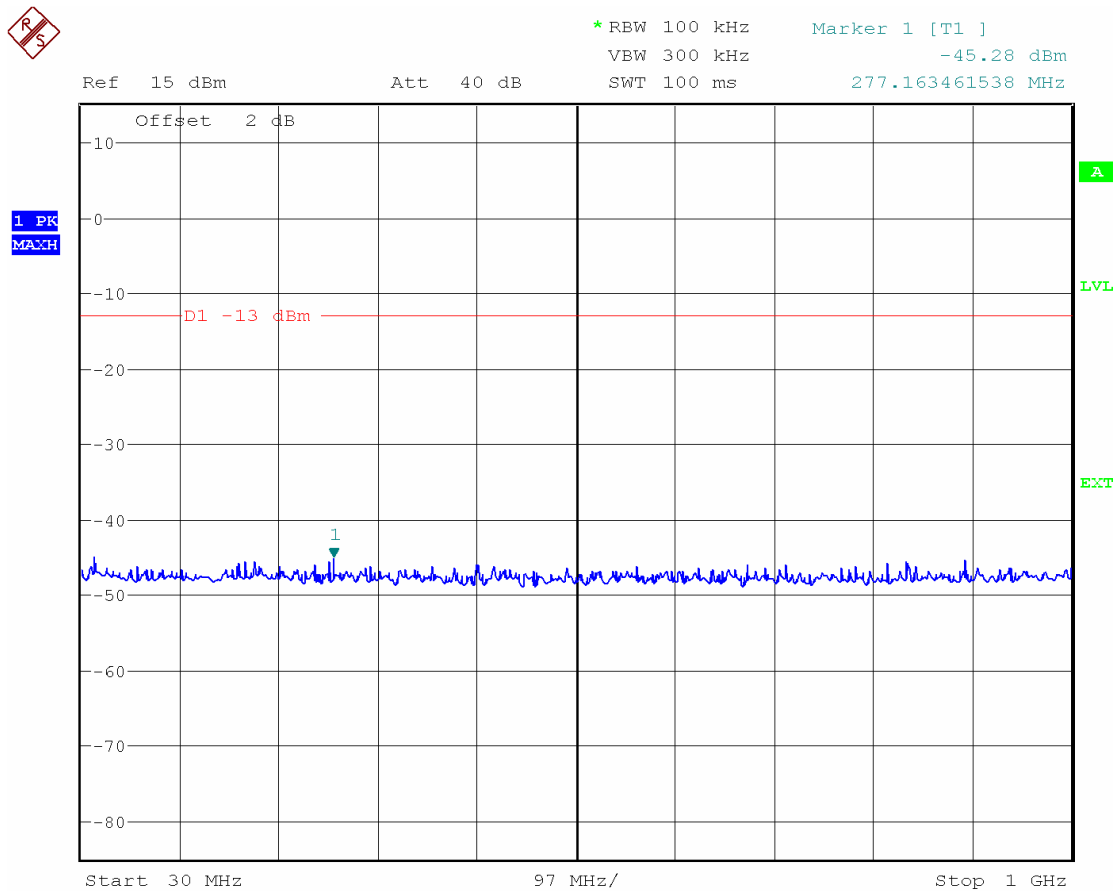


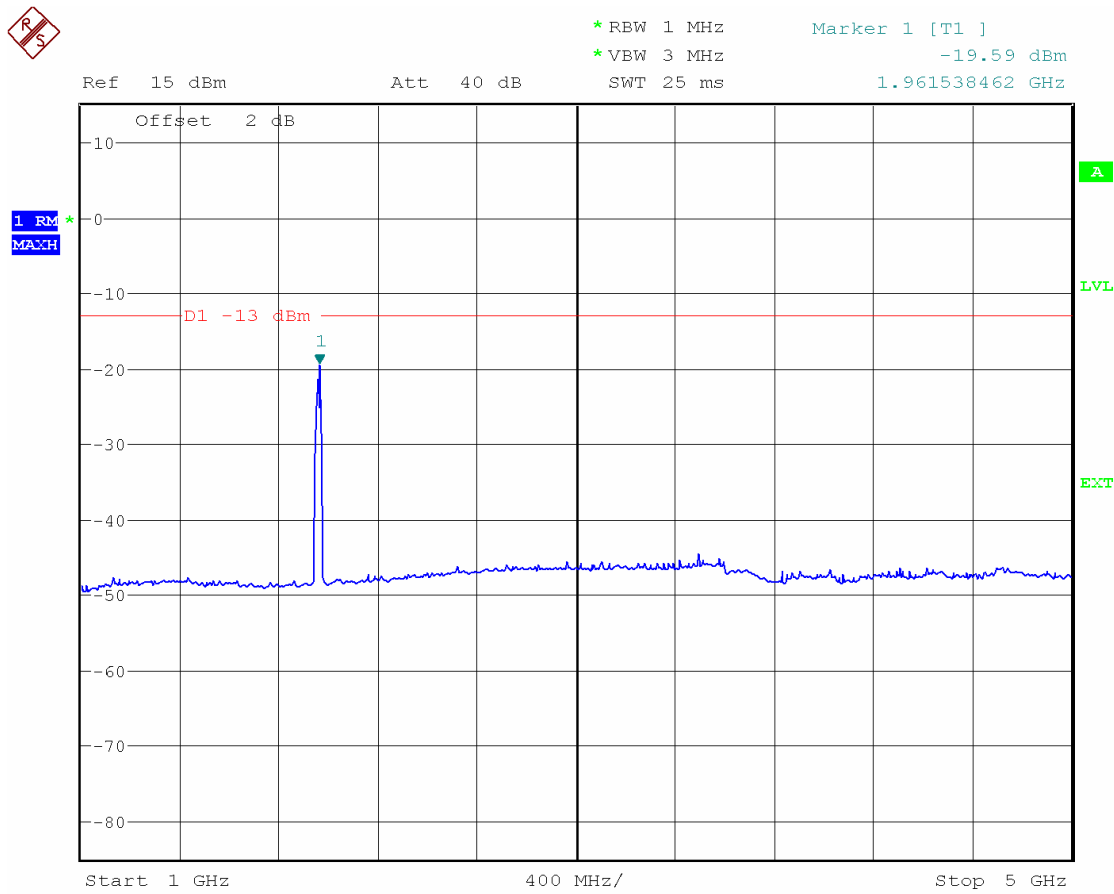
Measurement Result Outband Band Edge

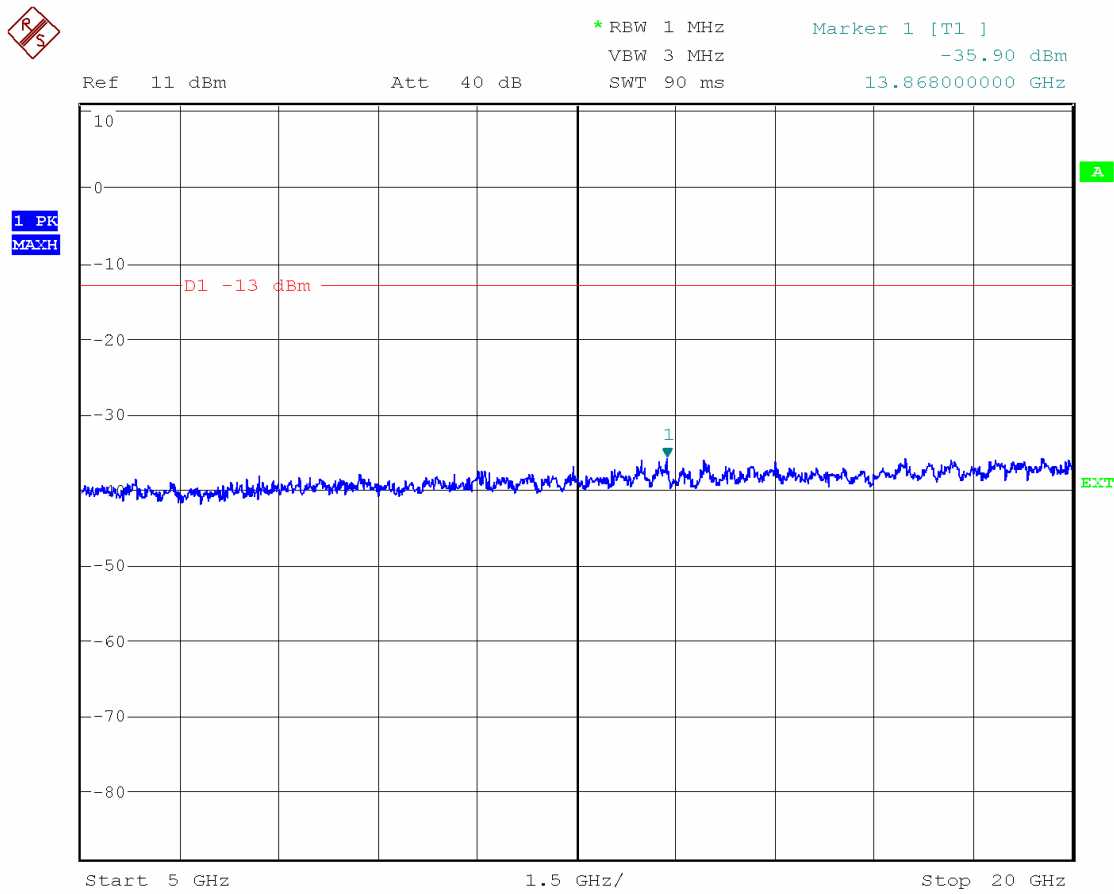
Channel 575/600/625











Appendix E

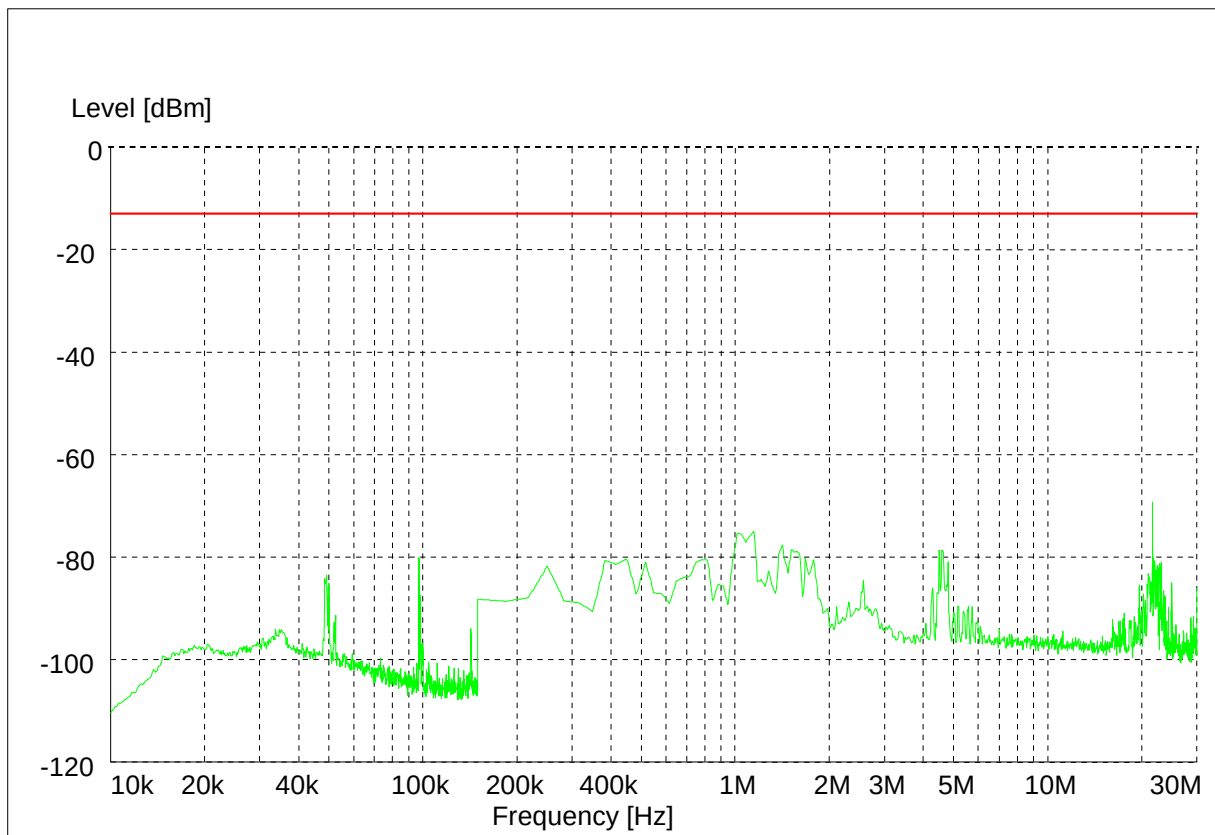
Field Strength of Spurious Radiation Measurements

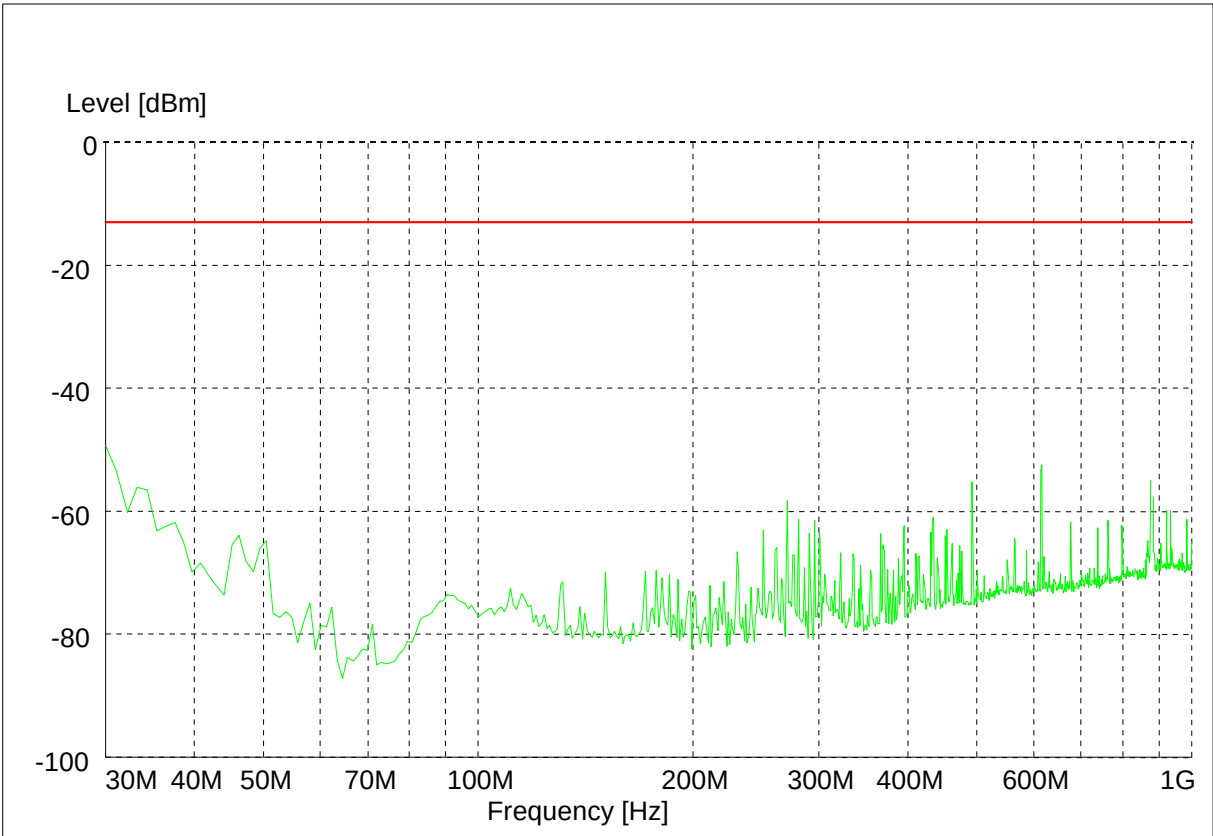
According to CFR 47 (FCC) part 2.1053

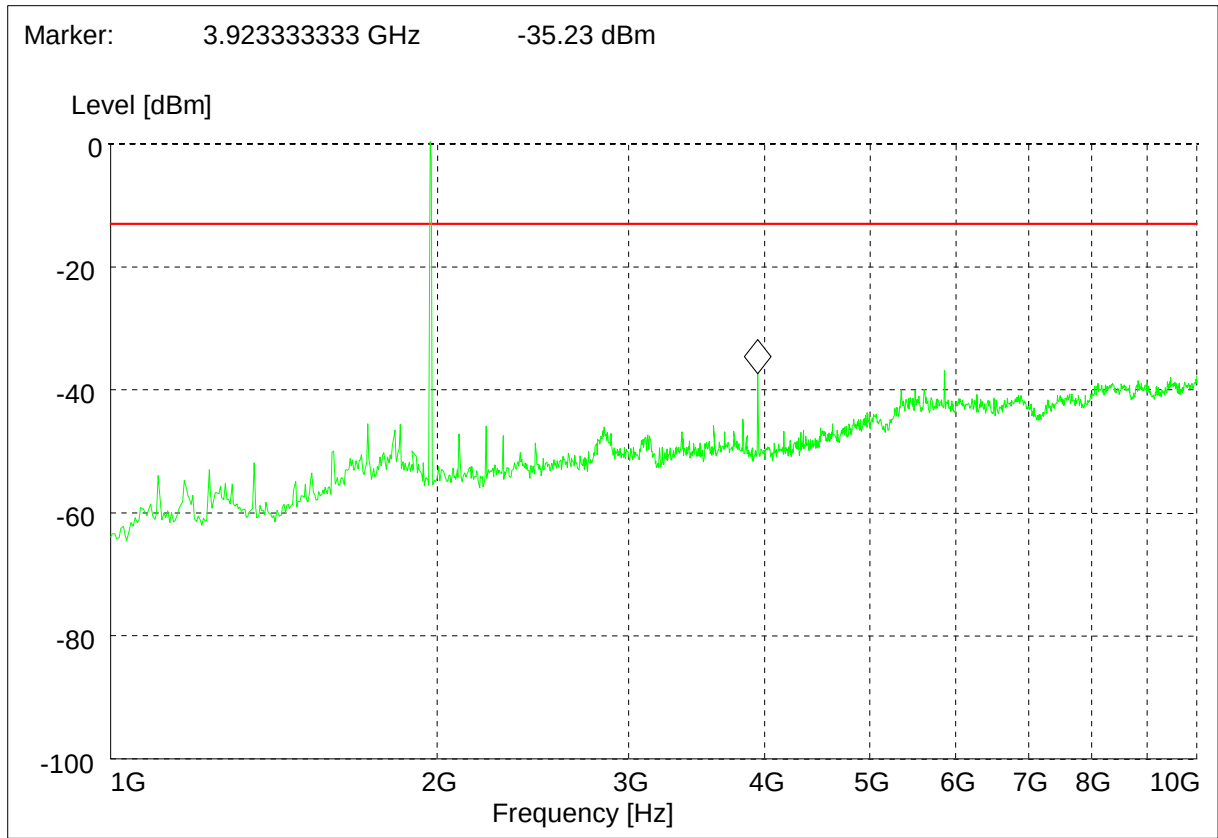
The Result of Spurious Radiation Test

1. BTS3606A Test Result

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





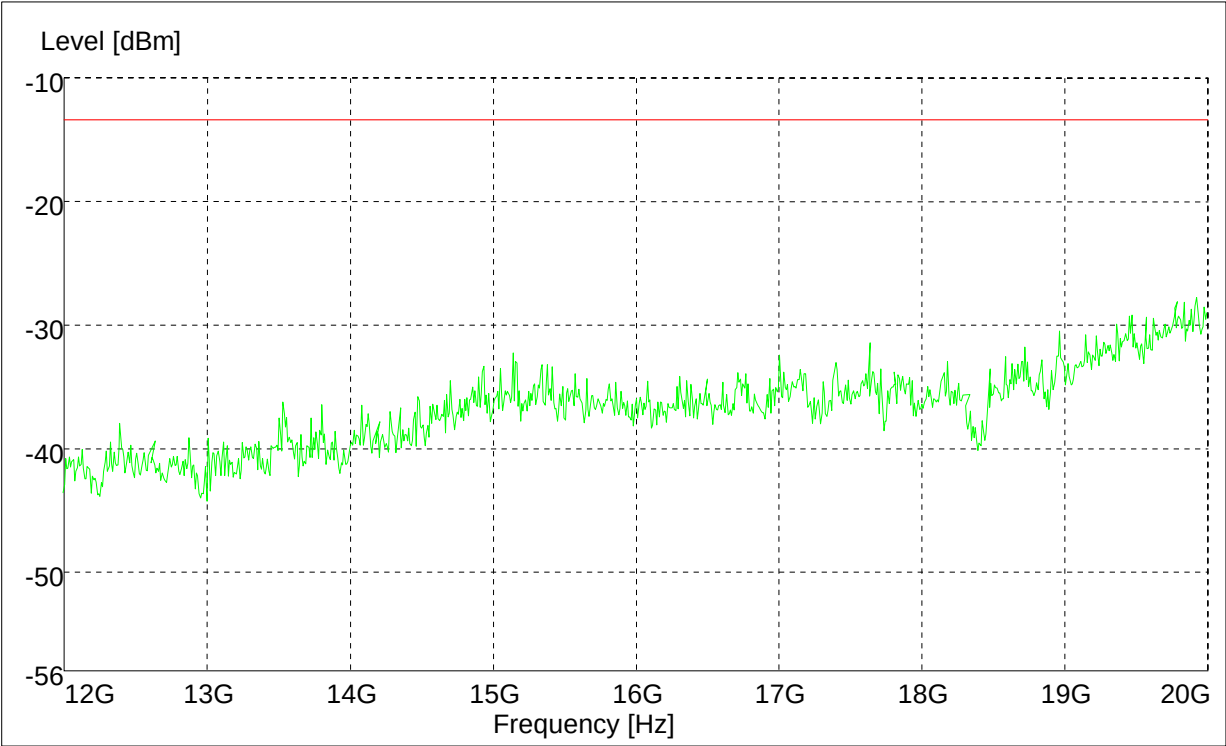


The point which exceeds the limit line is the carrier frequency.

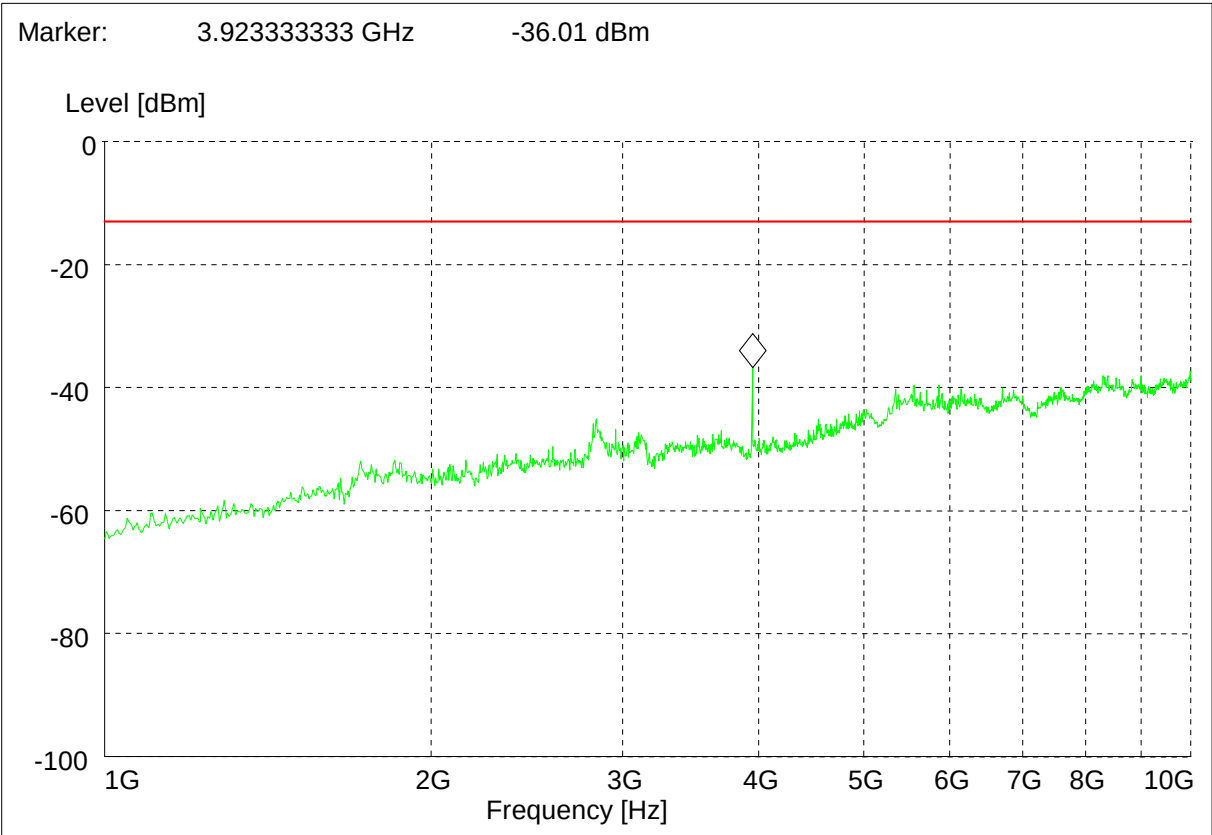


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The Result of Substitute Test



END

Appendix F

Frequency Stability Measurements

According to CFR 47 (FCC) part 2.1055

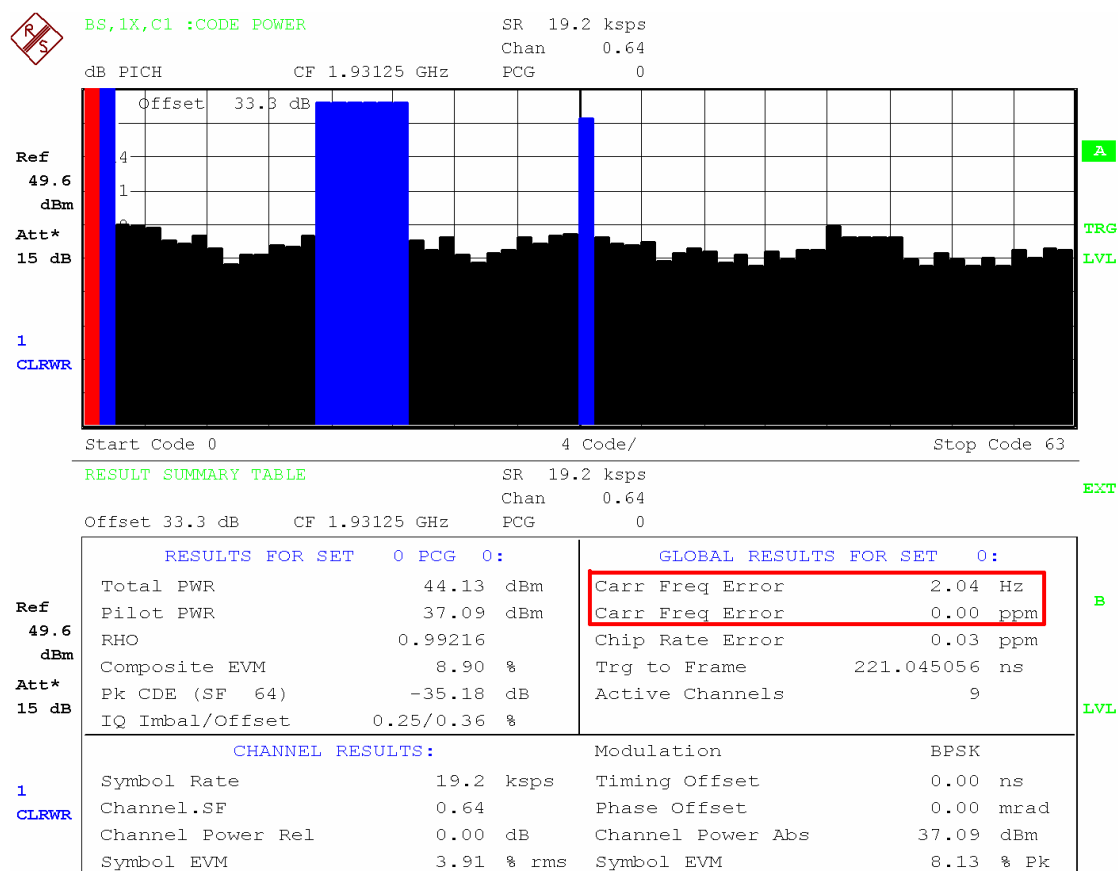
Frequency Stability versus Voltage

1. BTS3606A

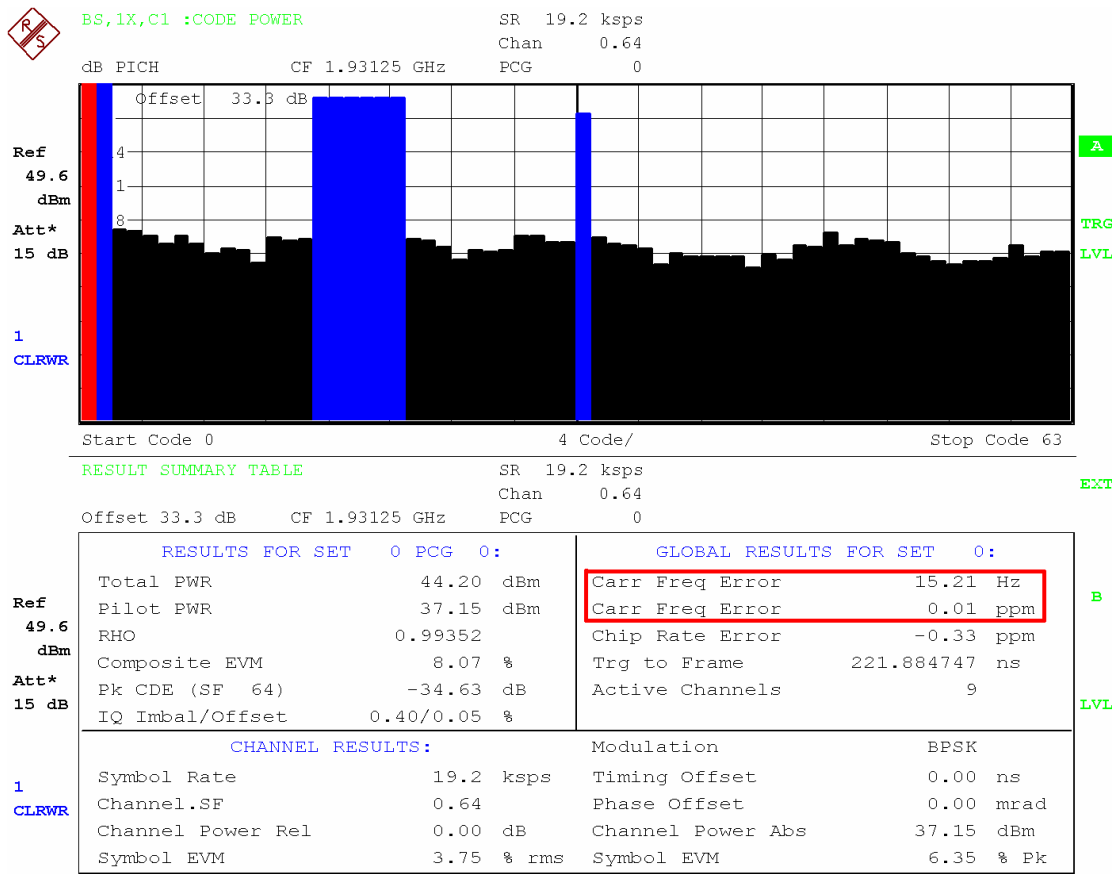
Frequency Stability versus Temperature

TRX1: Channel No. 25(1931.25MHz)

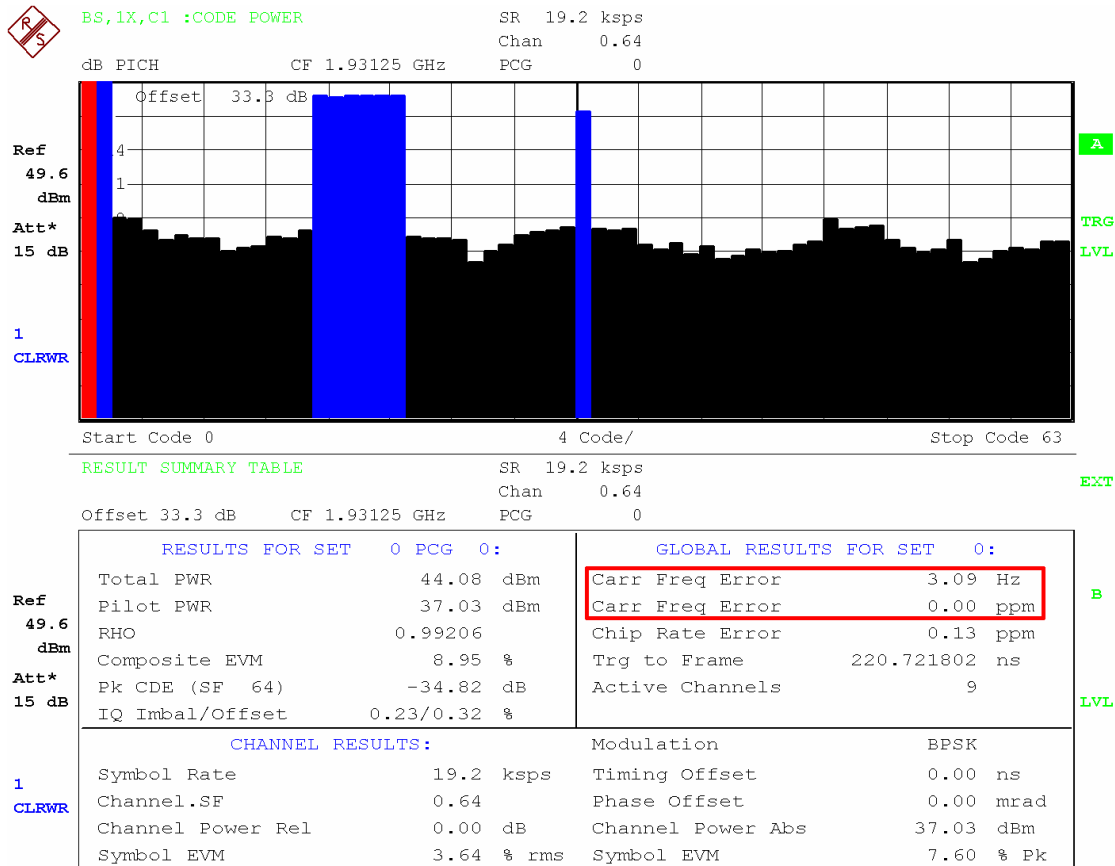
Temperature = - 30°C



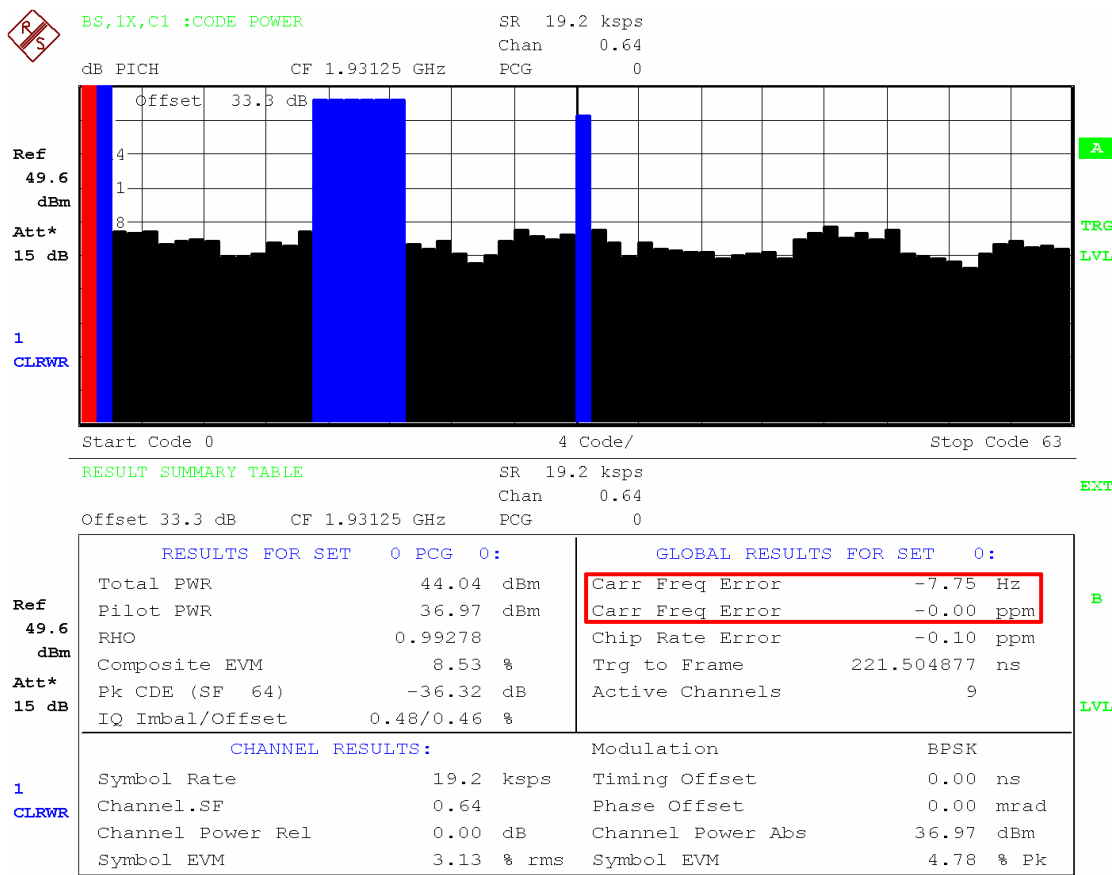
Temperature = - 20℃



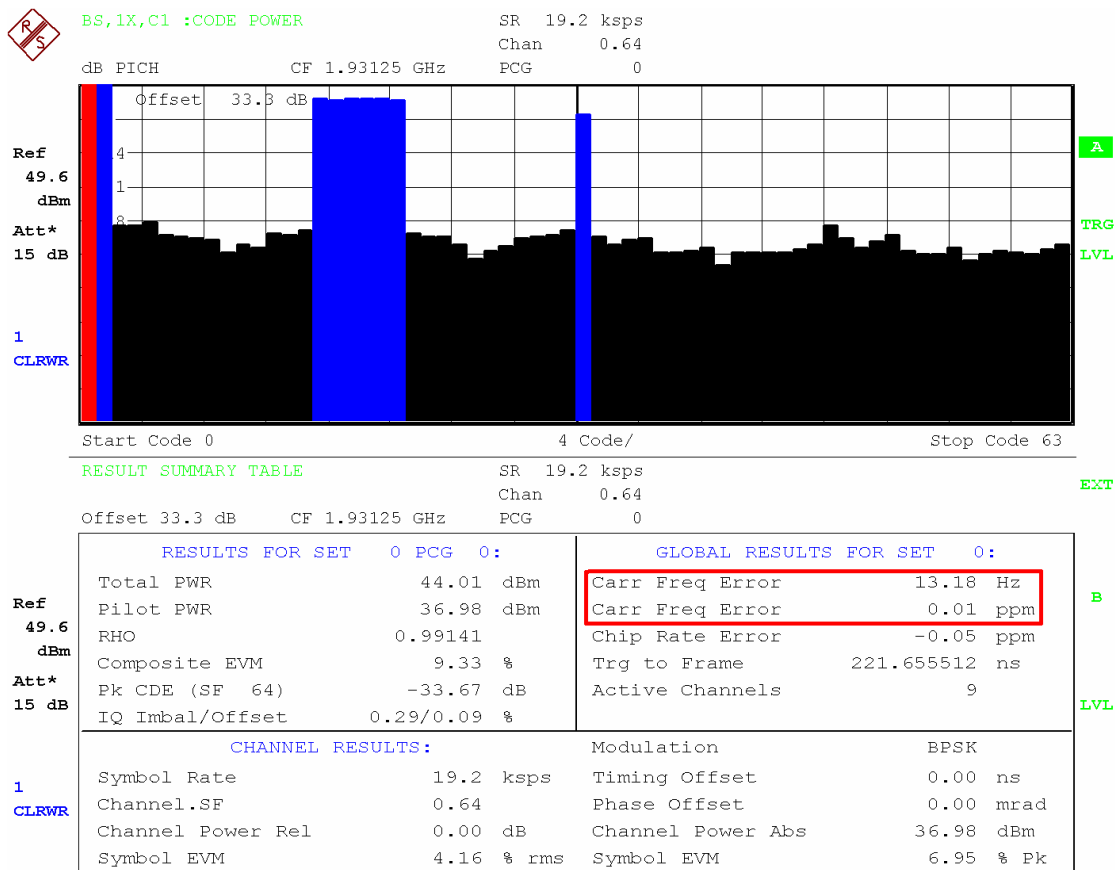
Temperature = - 10°C



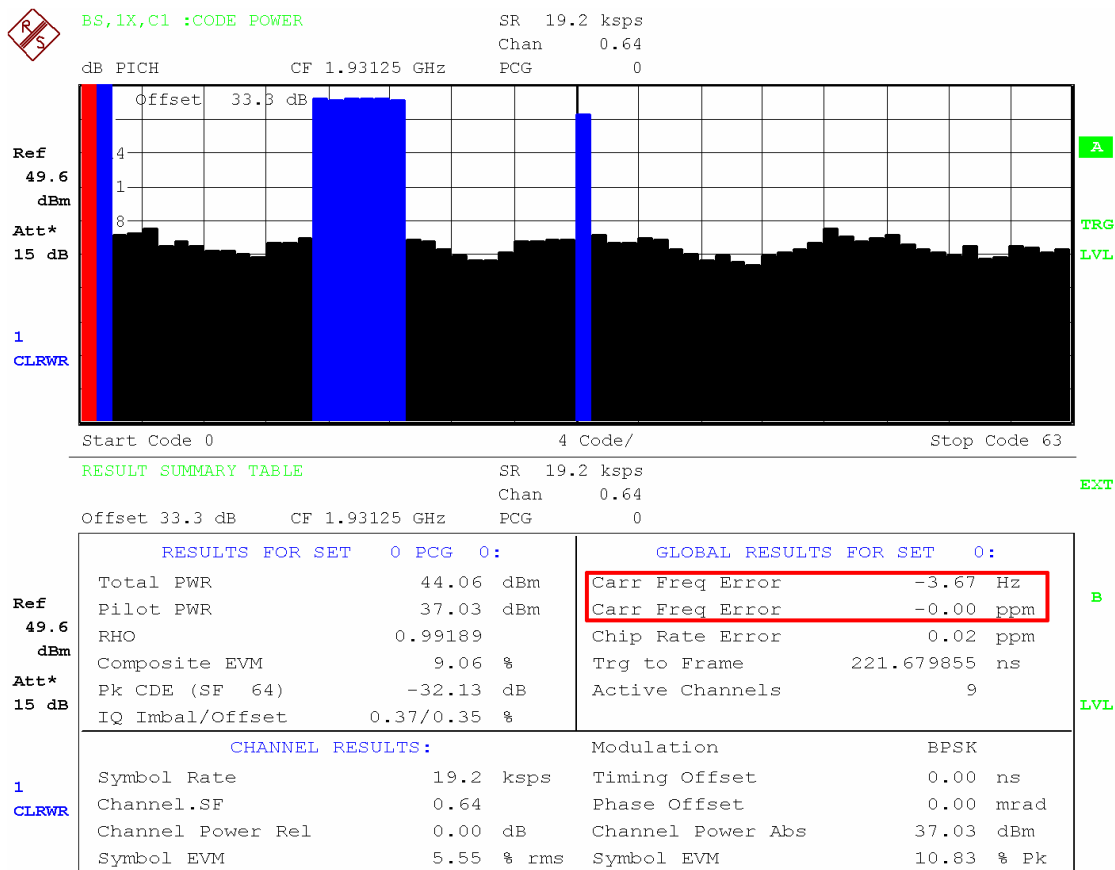
Temperature = 0°C



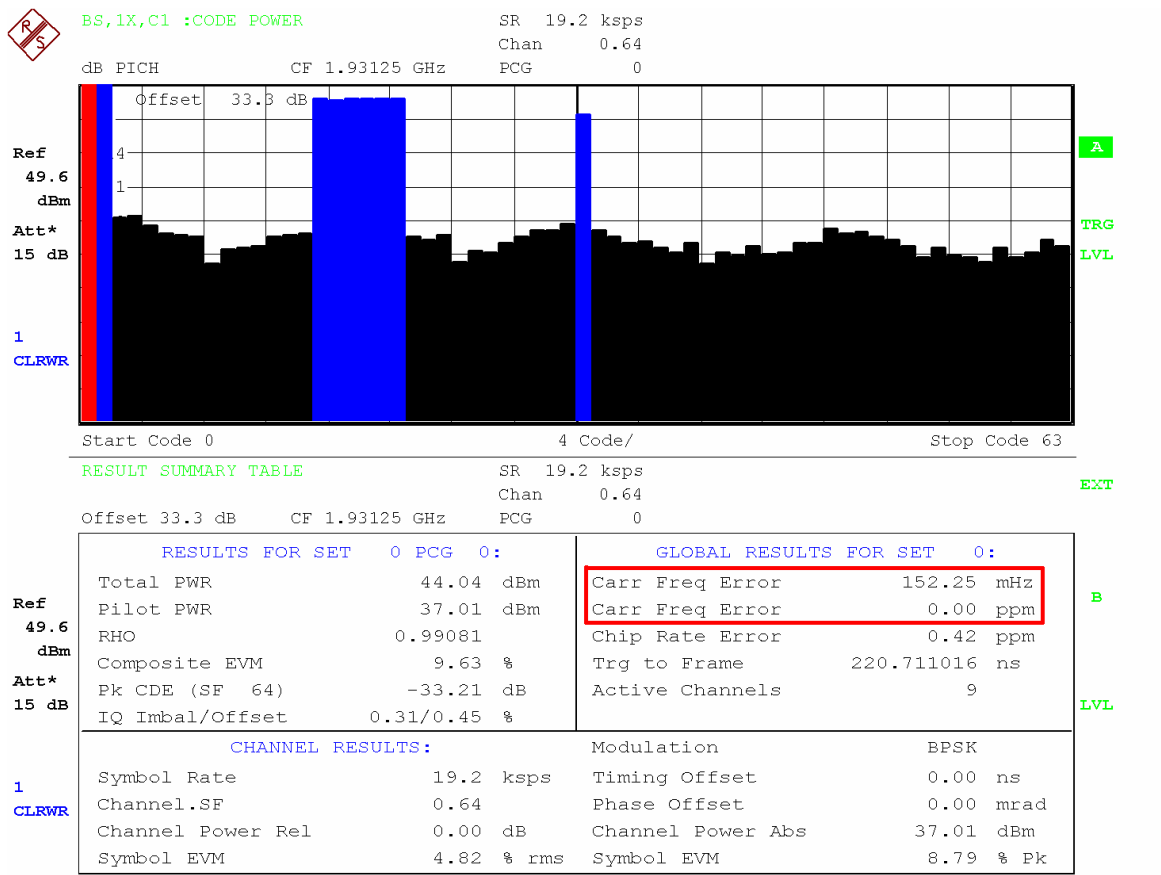
Temperature = 10°C



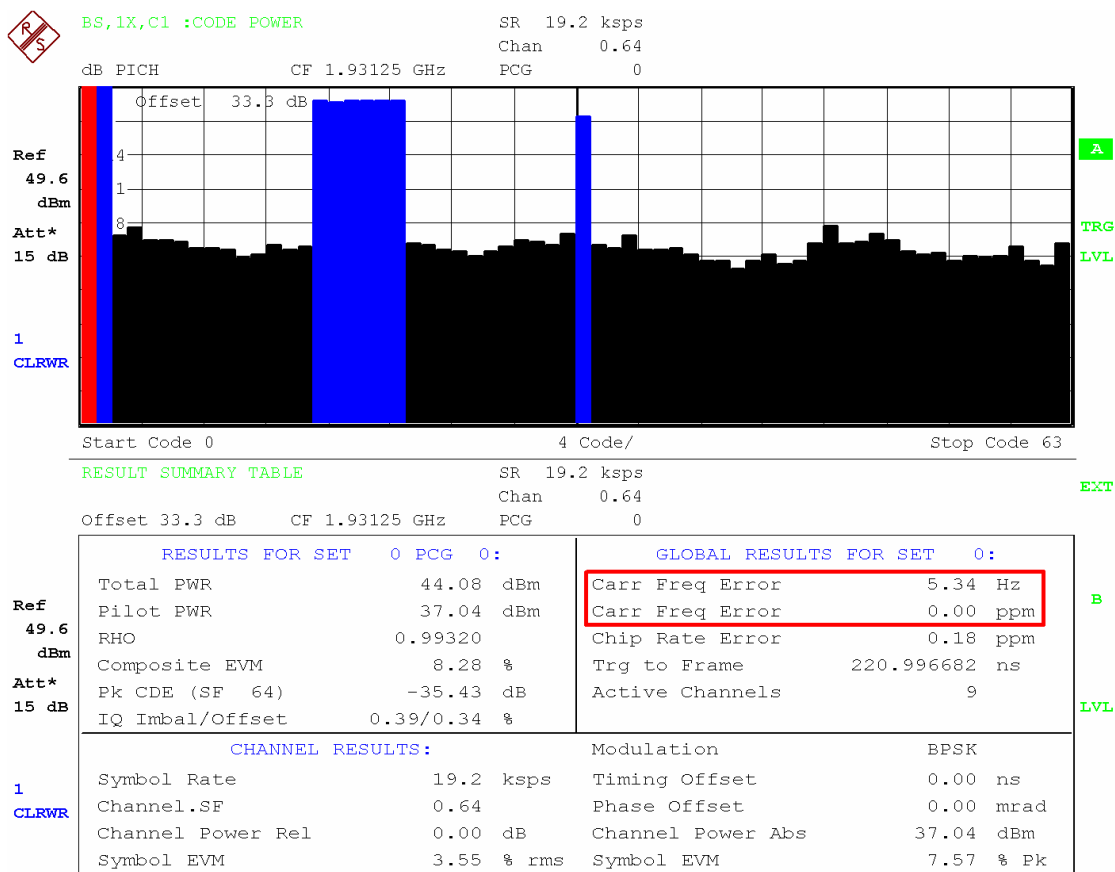
Temperature = 20°C



Temperature = 30℃

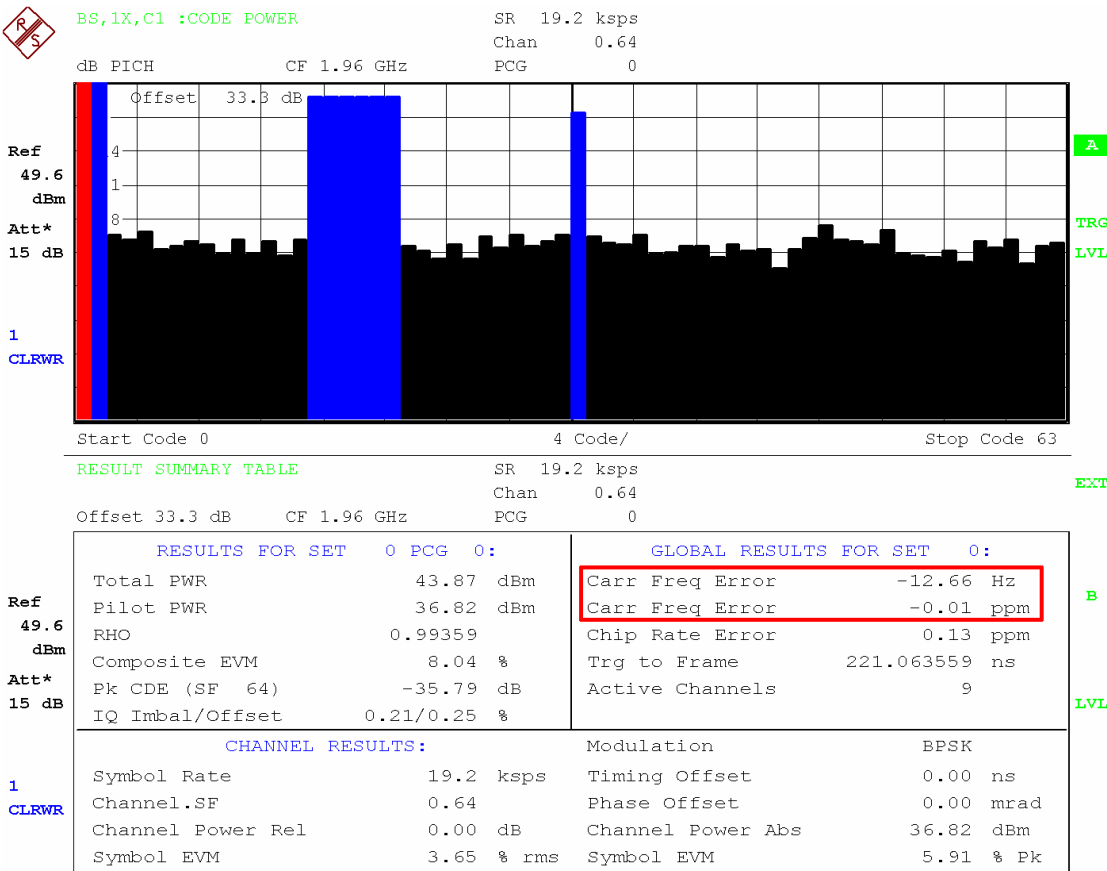


Temperature = 40°C

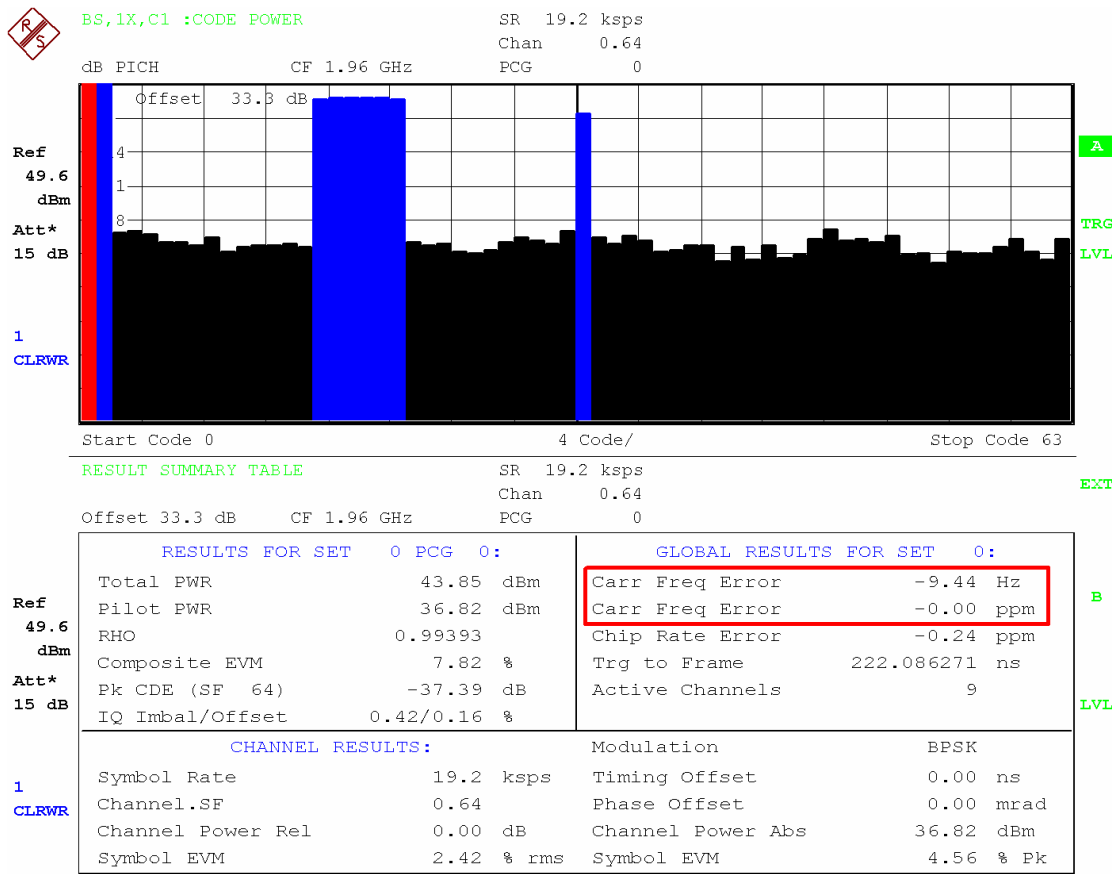


TRX2: Channel No. 600(1960.00MHz)

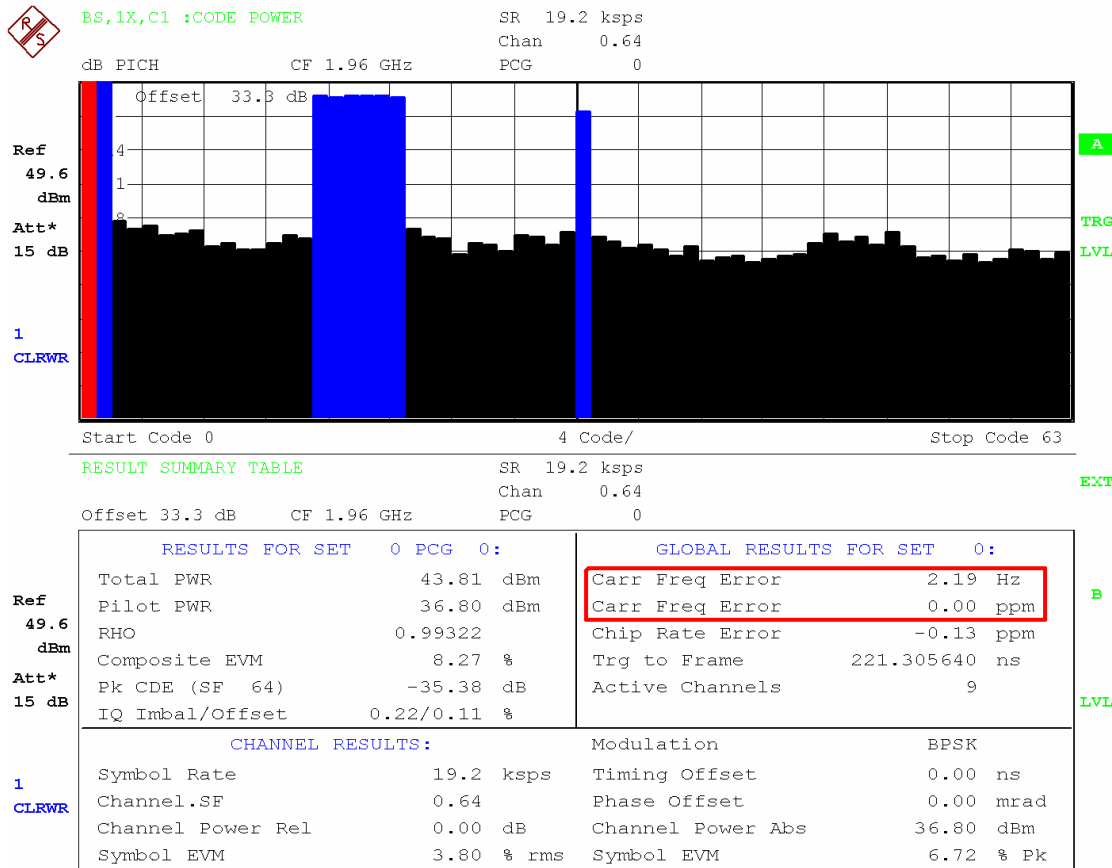
Temperature = - 30℃



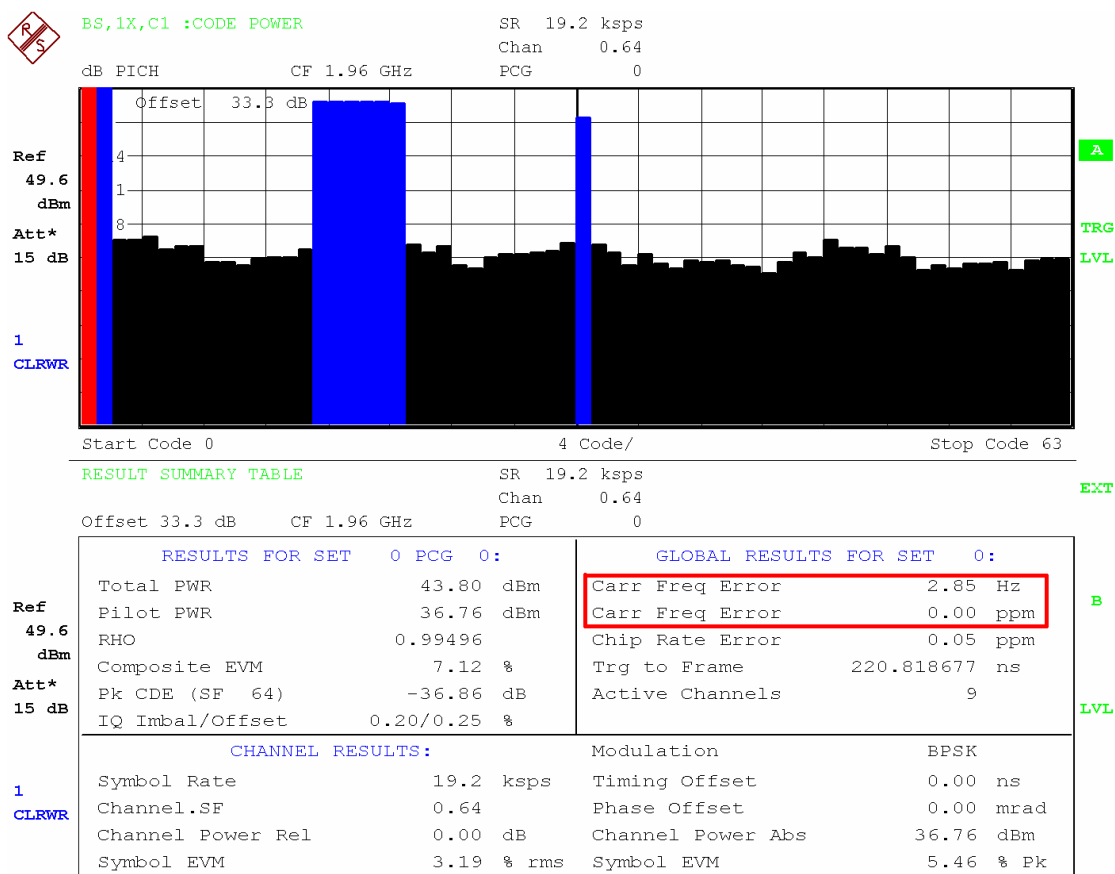
Temperature = - 20℃



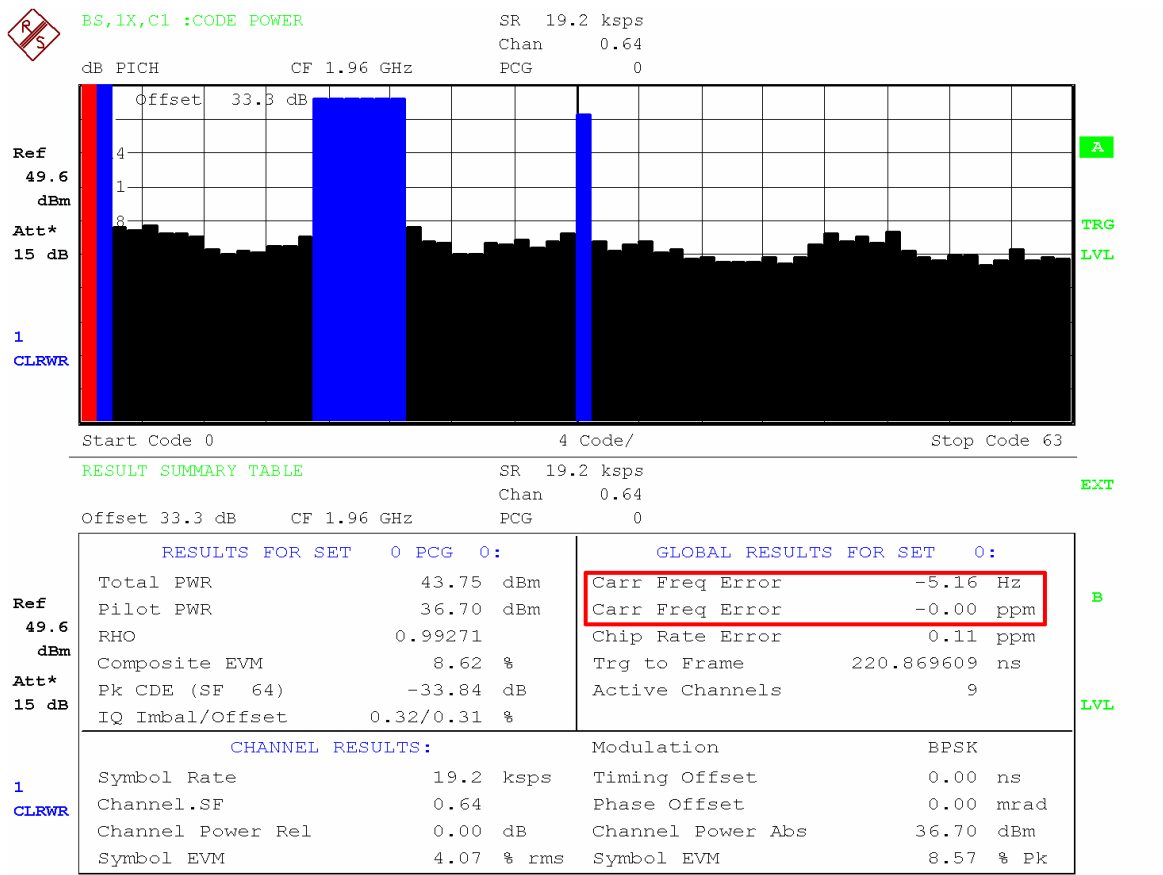
Temperature = - 10℃



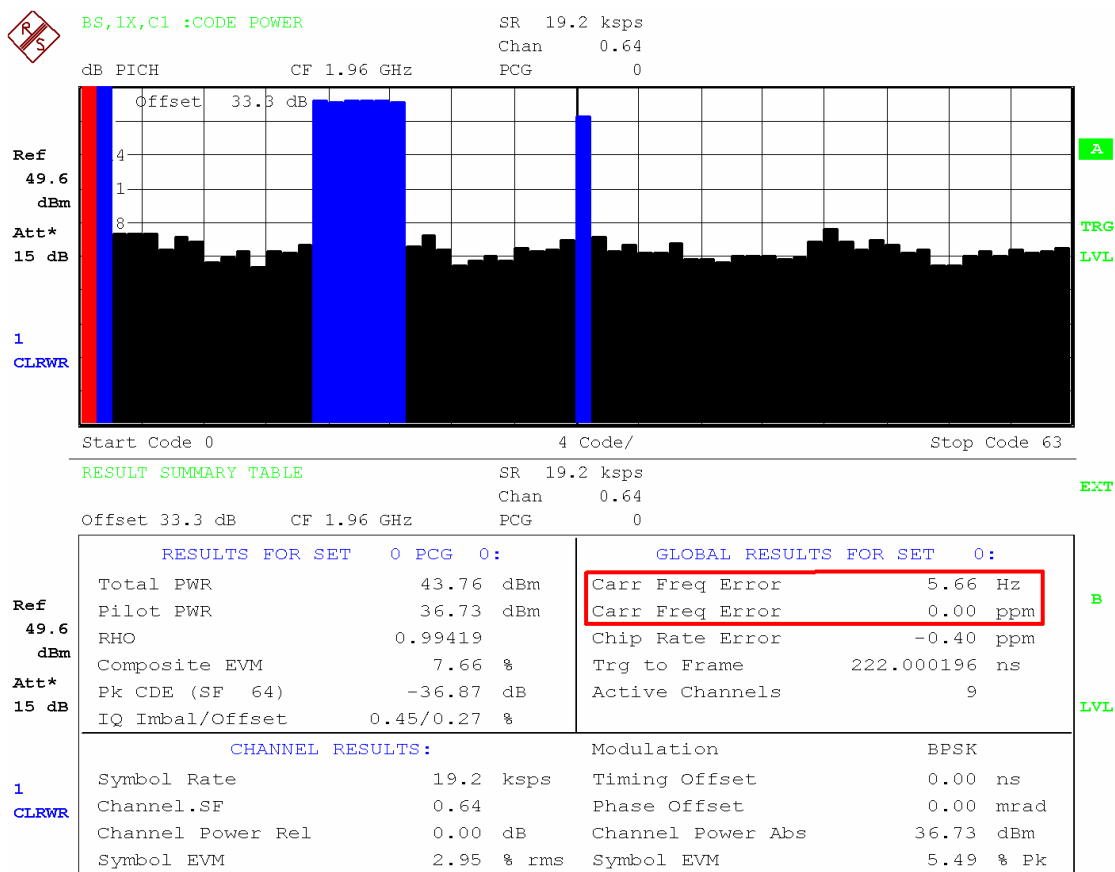
Temperature = 0°C



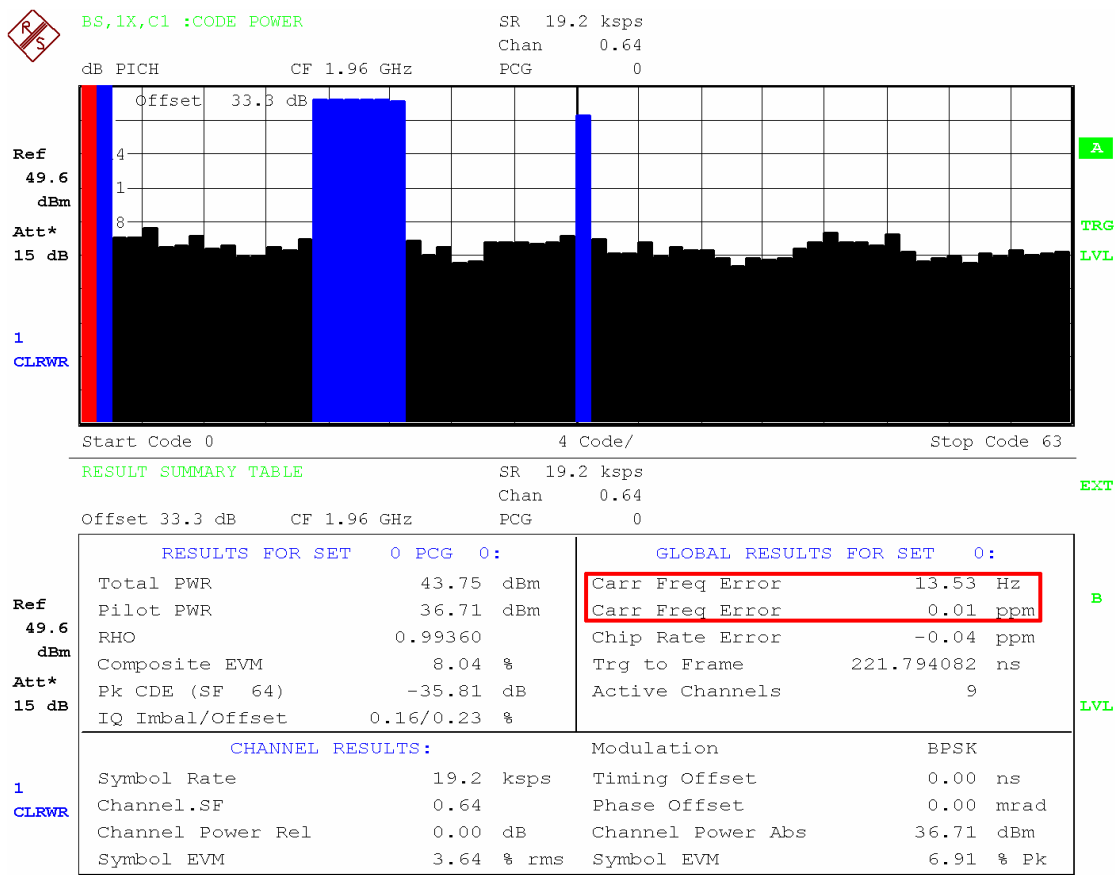
Temperature = 20°C



Temperature = 40°C

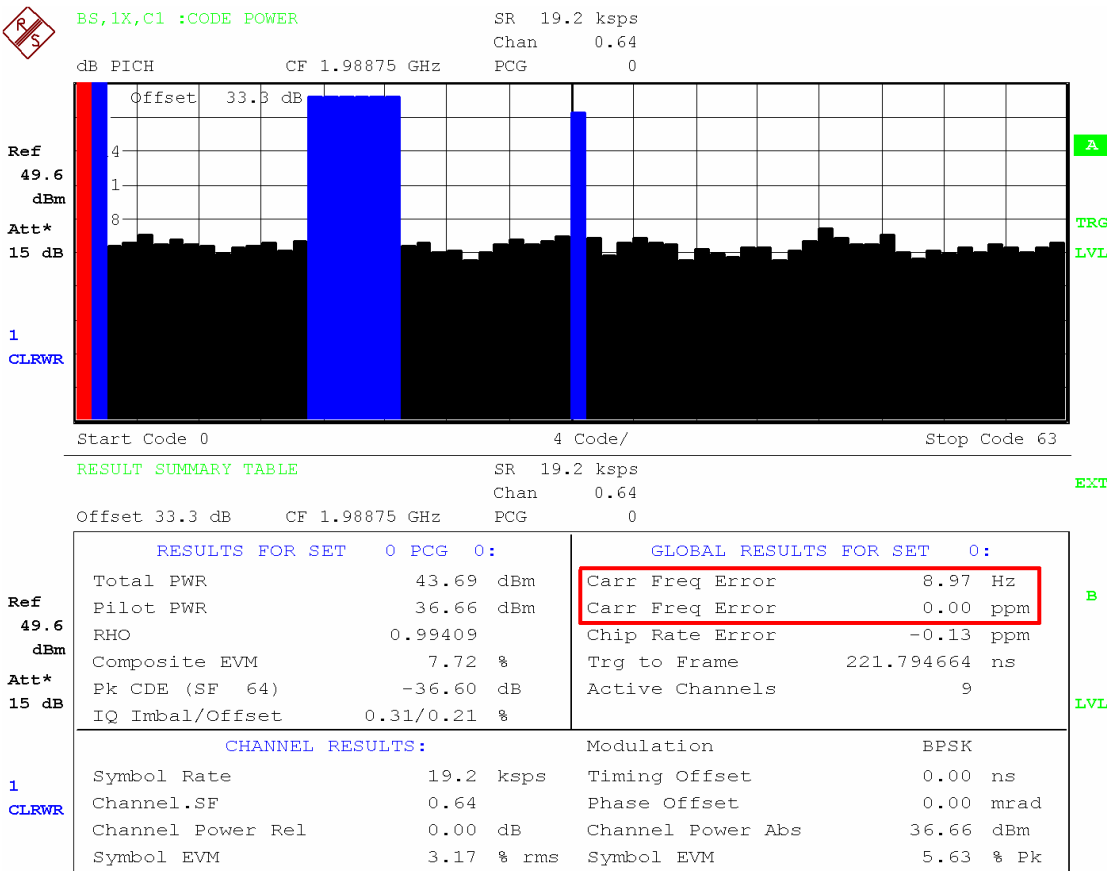


Temperature = 50°C

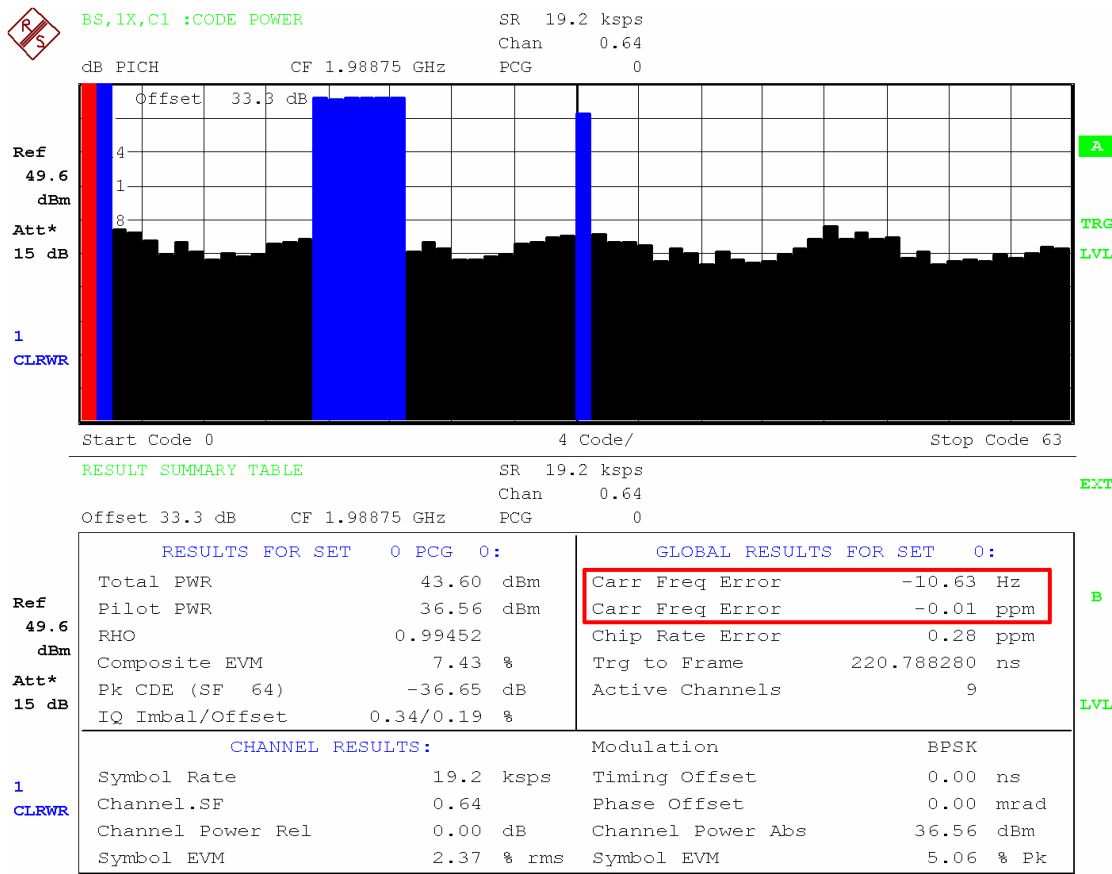


TRX3: Channel No. 1175(1988.75MHz)

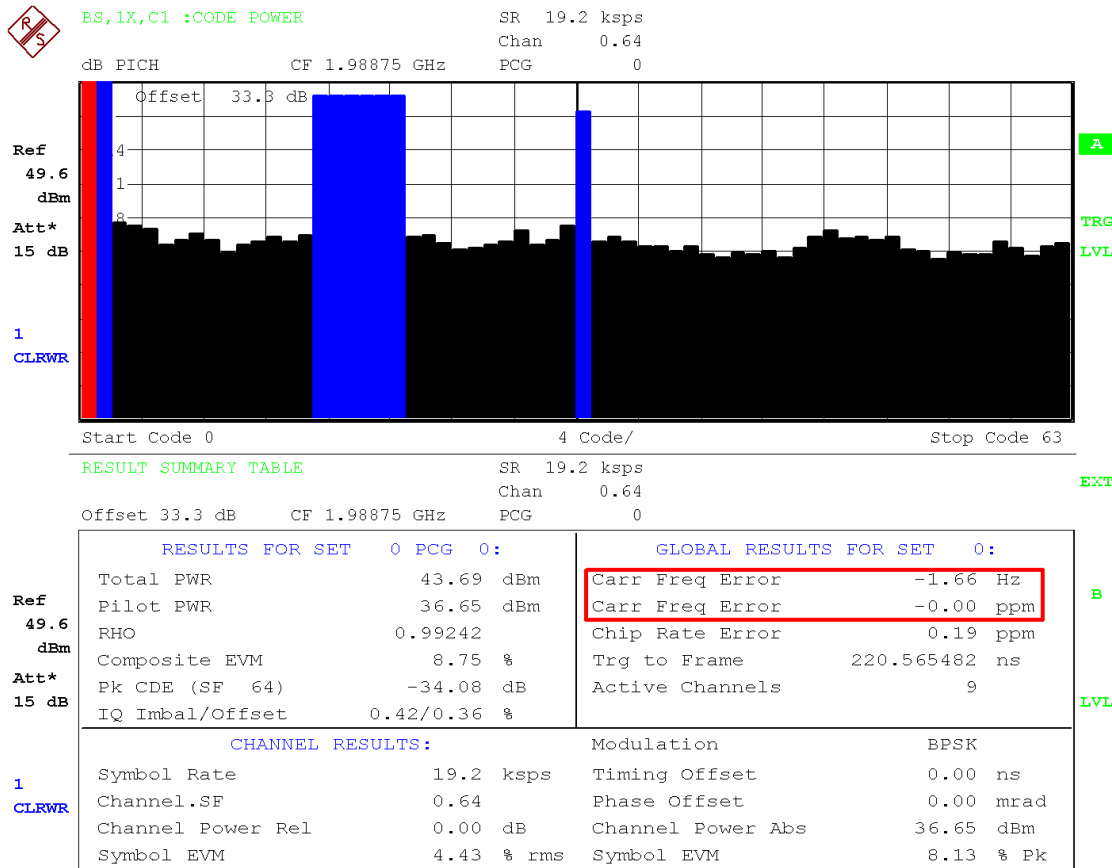
Temperature = - 30℃



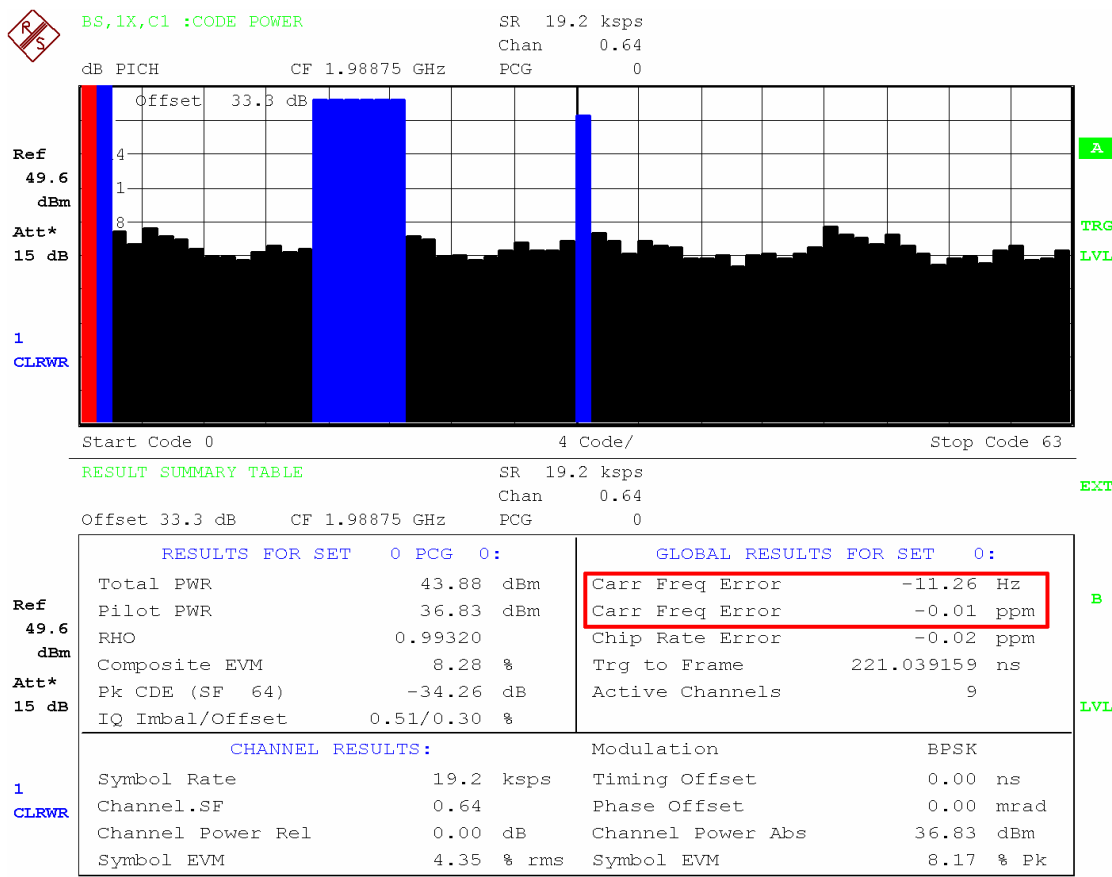
Temperature = - 20℃



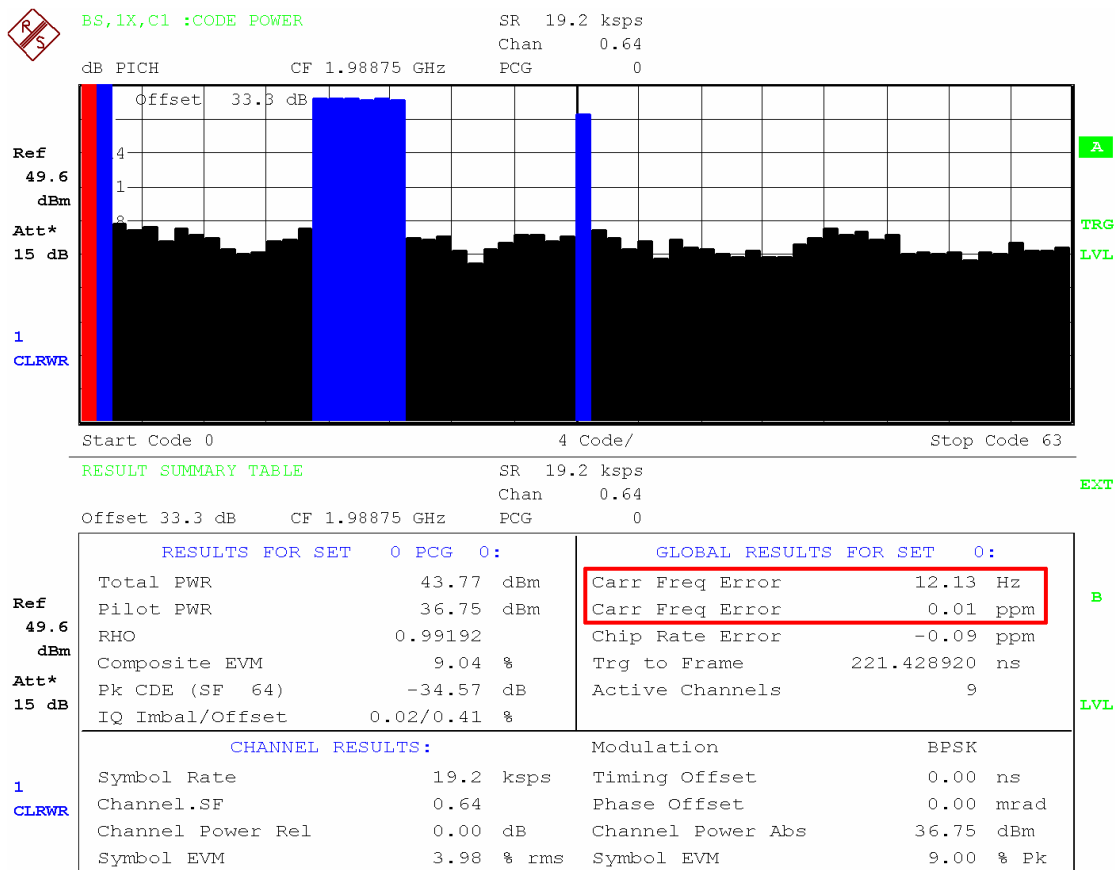
Temperature = - 10℃



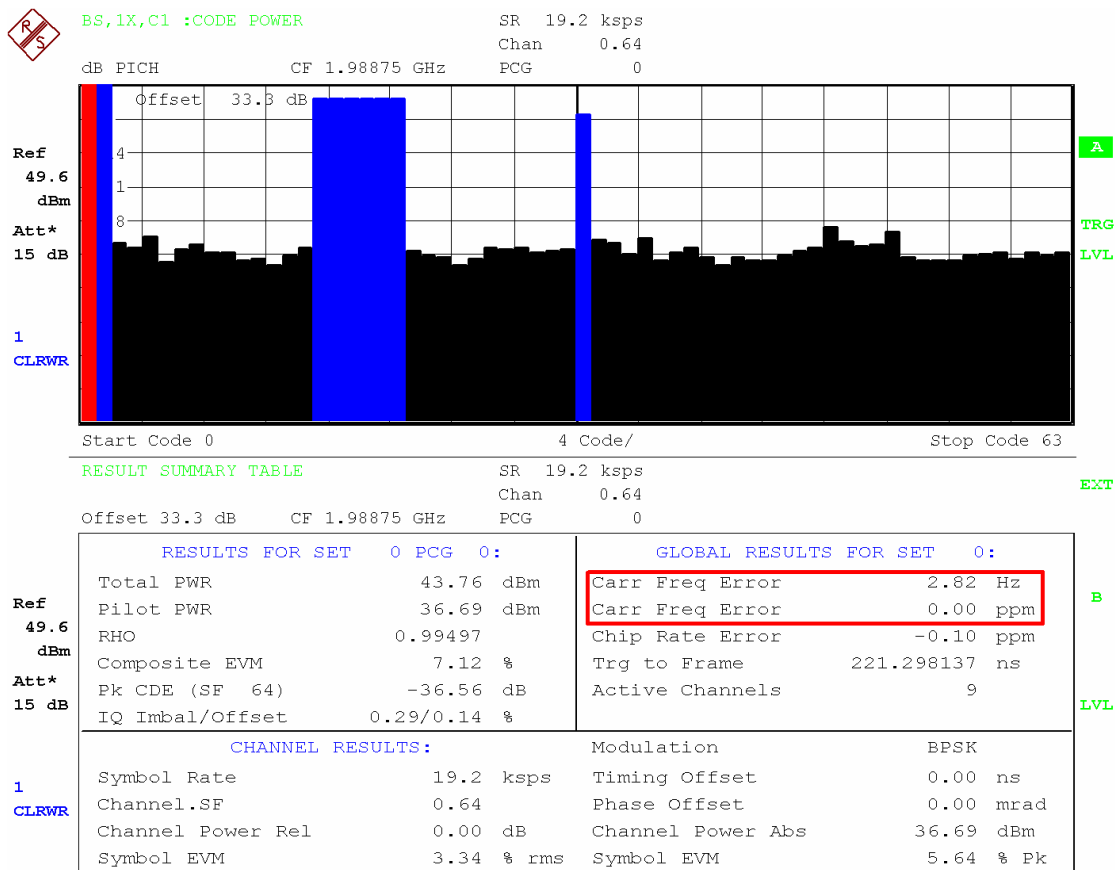
Temperature = 0℃



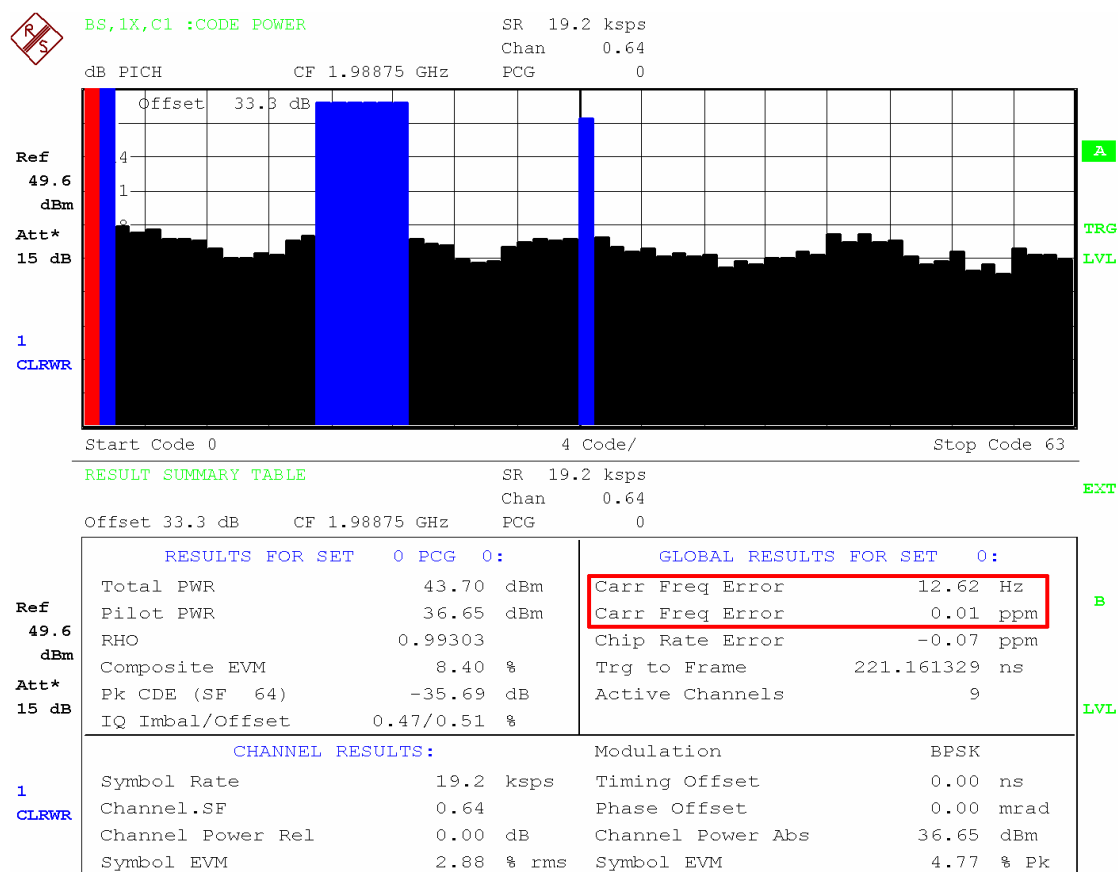
Temperature = 20°C



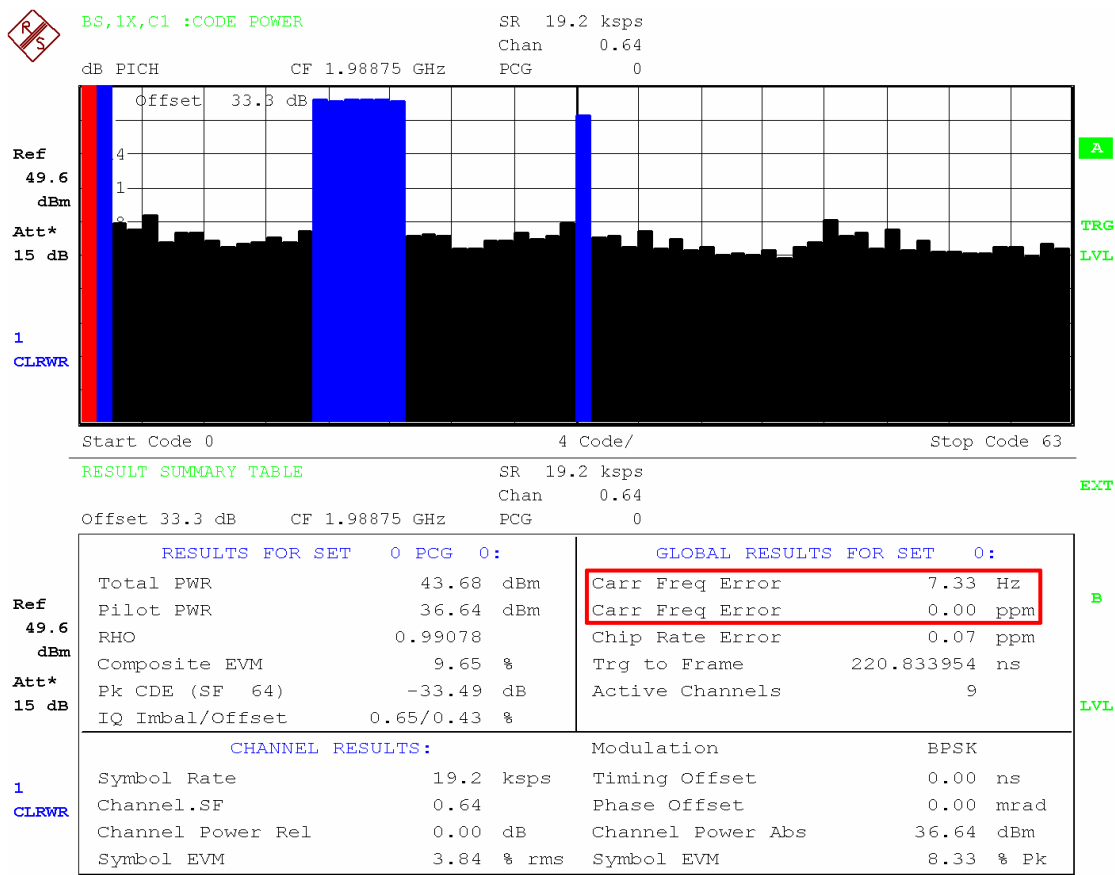
Temperature = 30°C



Temperature = 40°C



Temperature = 50°C

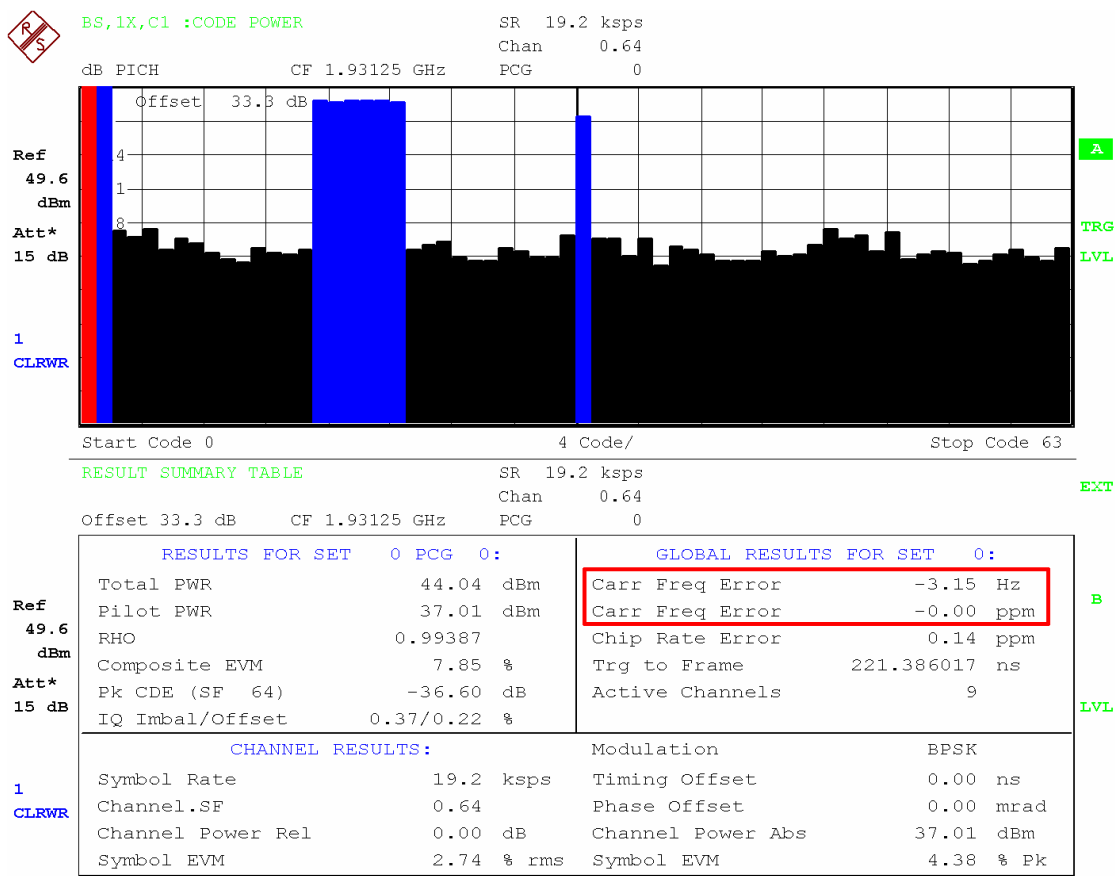


Frequency Stability versus Voltages

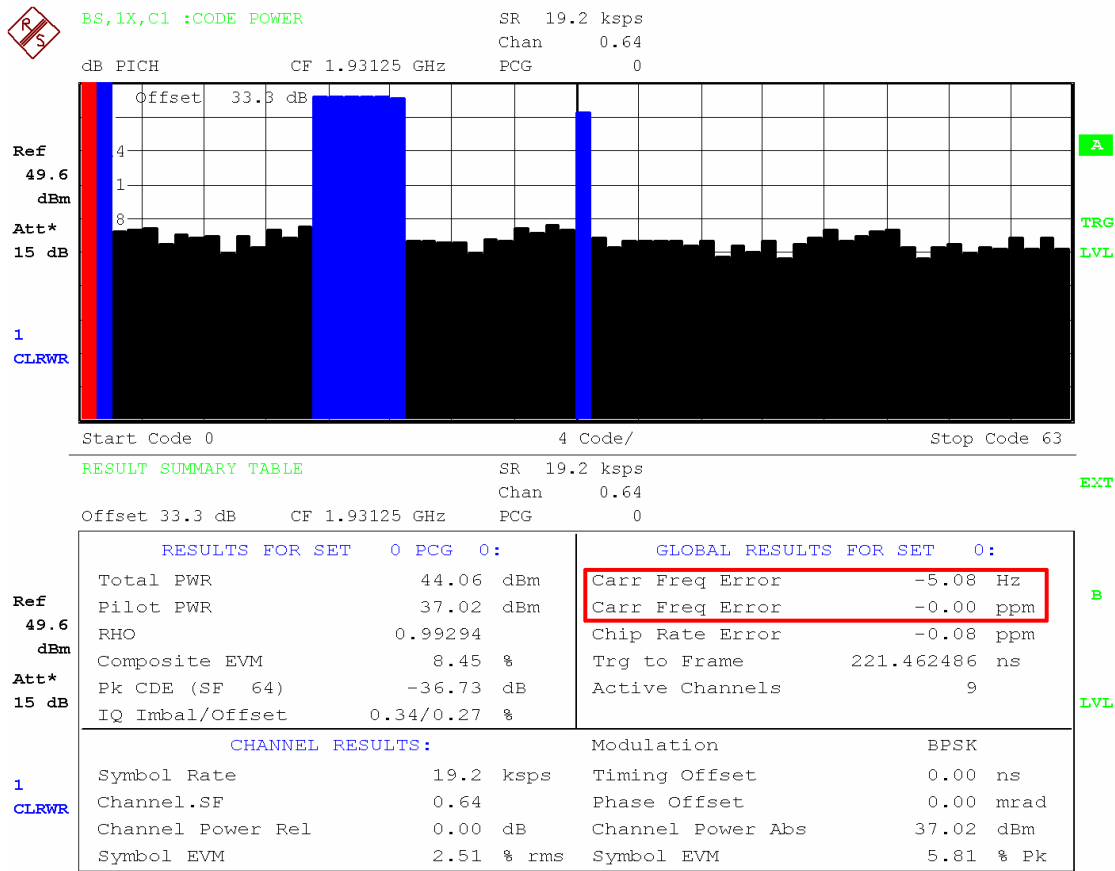
AC Power Supply:

TRX1: Channel No. 25(1931.25MHz)

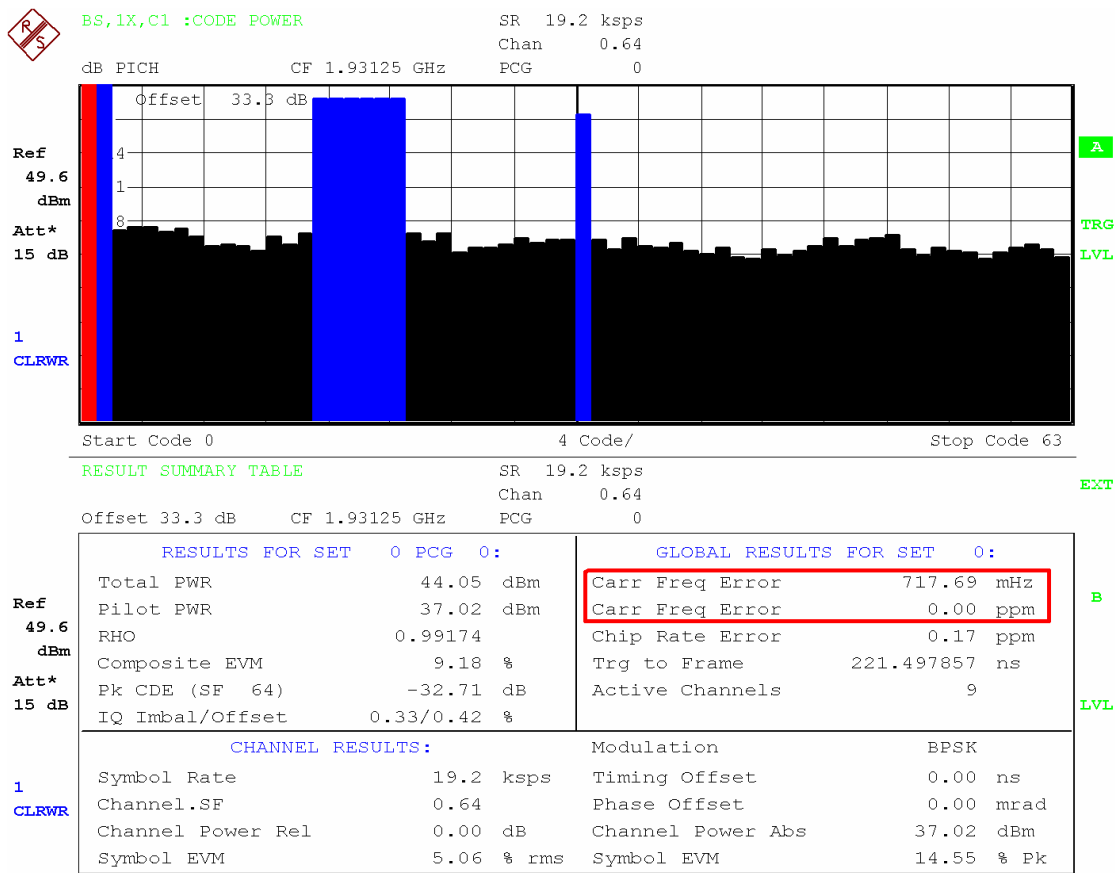
Voltage= 187V



Voltage= 220V

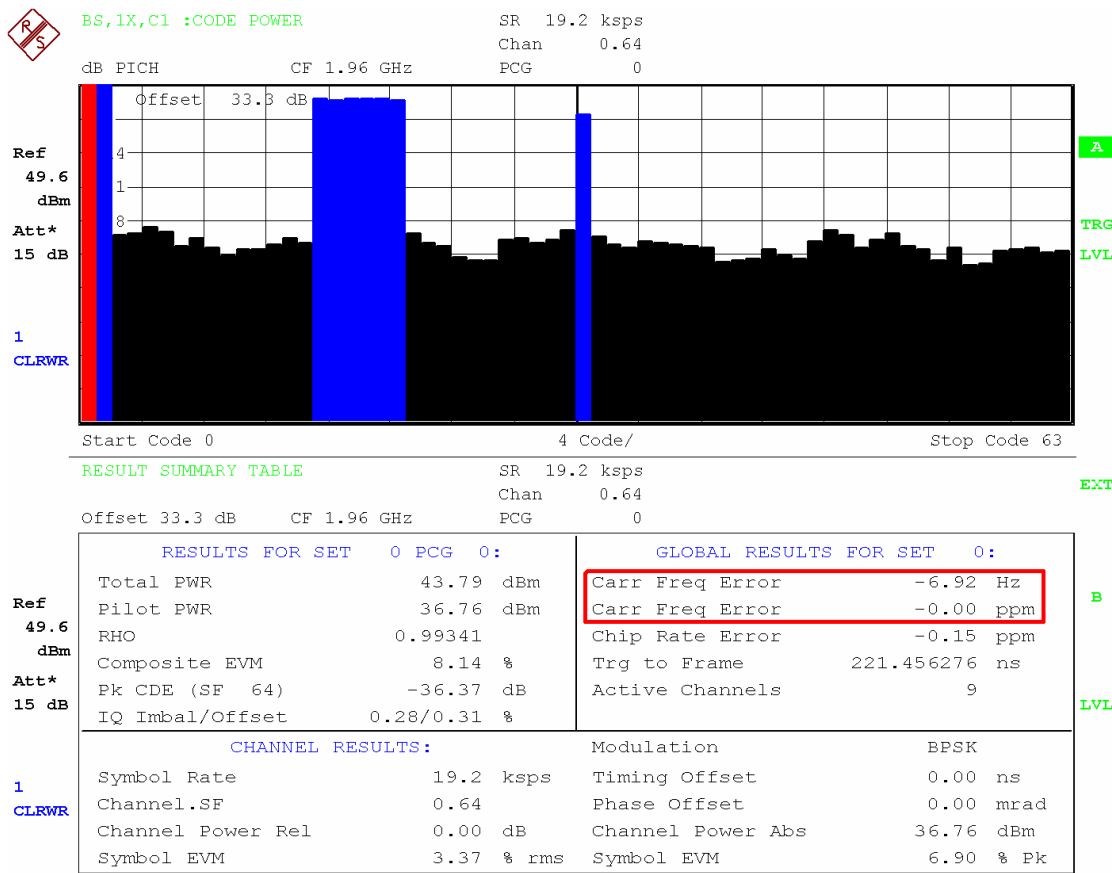


Voltage= 253V

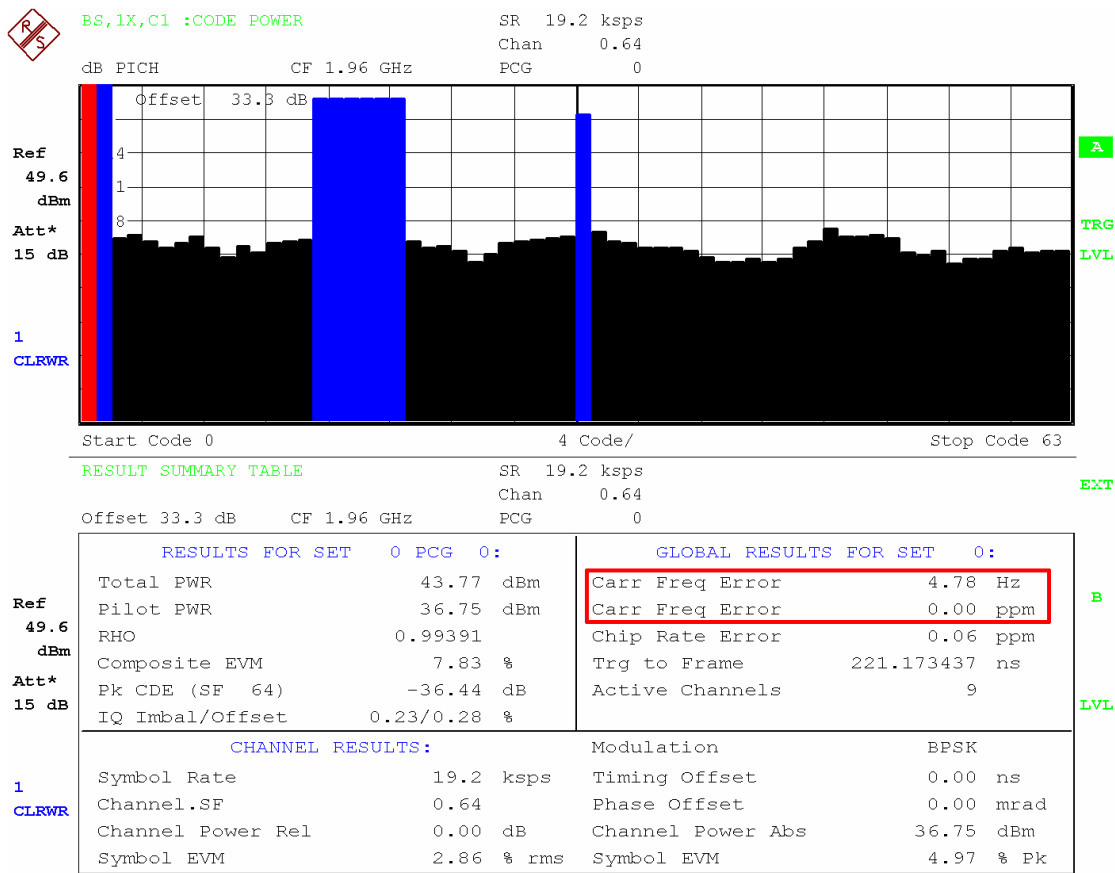


TRX2: Channel No. 600(1960.00MHz)

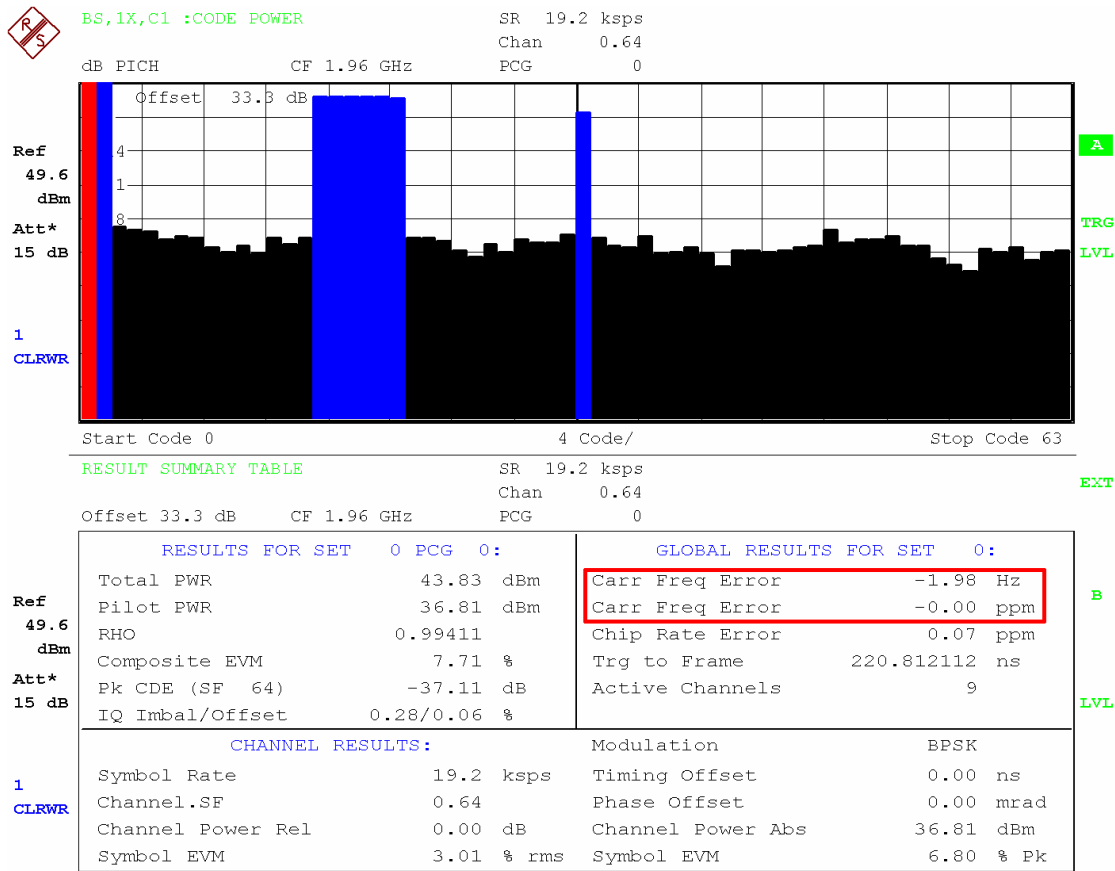
Voltage= 187V



Voltage= 220V



Voltage= 253V



A

TRG

LVL

EXT

B

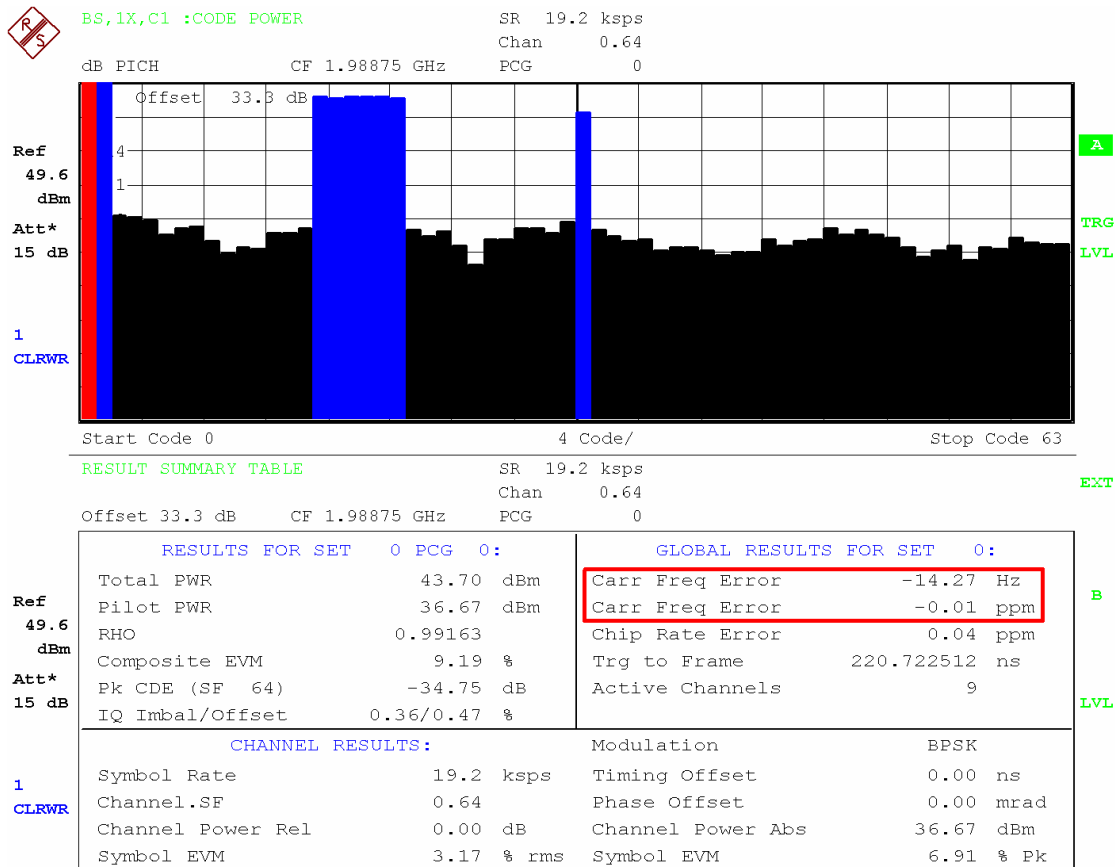
LVL

TRX3: Channel No. 1175(1988.75MHz)

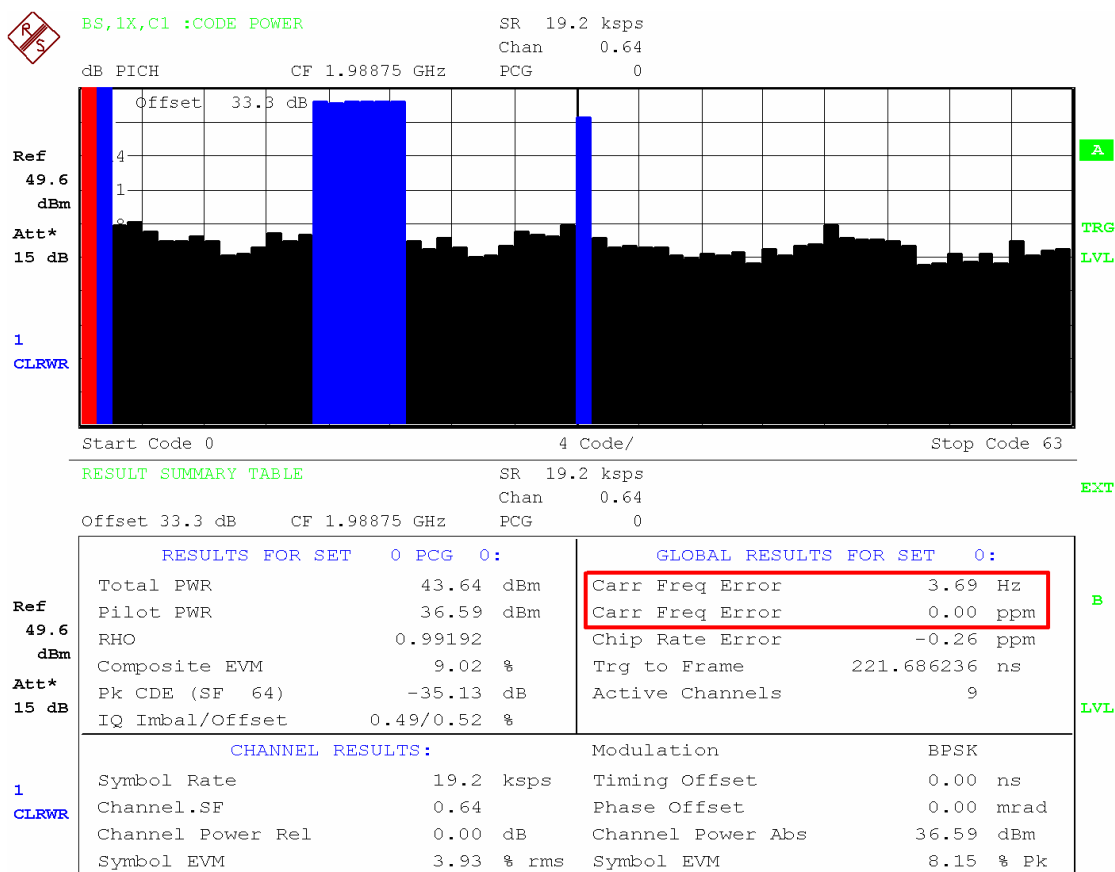
Voltage= 187V



Voltage= 220V



Voltage= 253V



Appendix G

Conducted Emission Measurements

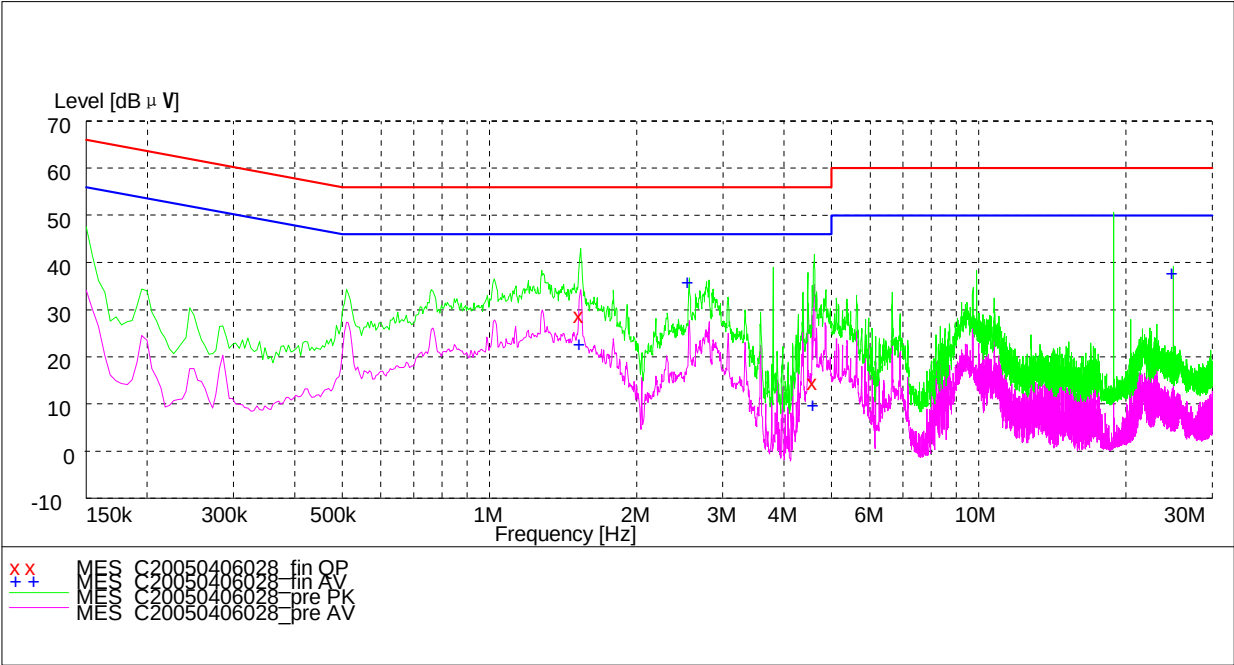
According to CFR 47 (FCC) part 15.207

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CONDUCTED EMISSION TEST

Test result of BTS3606A:



MEASUREMENT RESULT: " C20050406028_fin QP"

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
1.536000	29.80	10.1	56	26.2	N	GND
4.609500	15.50	10.1	56	40.5	L1	GND

MEASUREMENT RESULT: " C20050406028_fin AV"

Frequency (MHz)	Level (dBμV)	Transd (dB)	Limit (dBμV)	Margin (dB)	Line	PE
1.536000	23.60	10.1	46	22.4	N	GND
2.557500	36.90	10.1	46	9.1	L3	GND
4.605000	10.60	10.1	46	35.4	L1	GND
24.999000	38.60	14.9	50	11.4	L1	GND

Appendix H

Radiated Emission Measurements

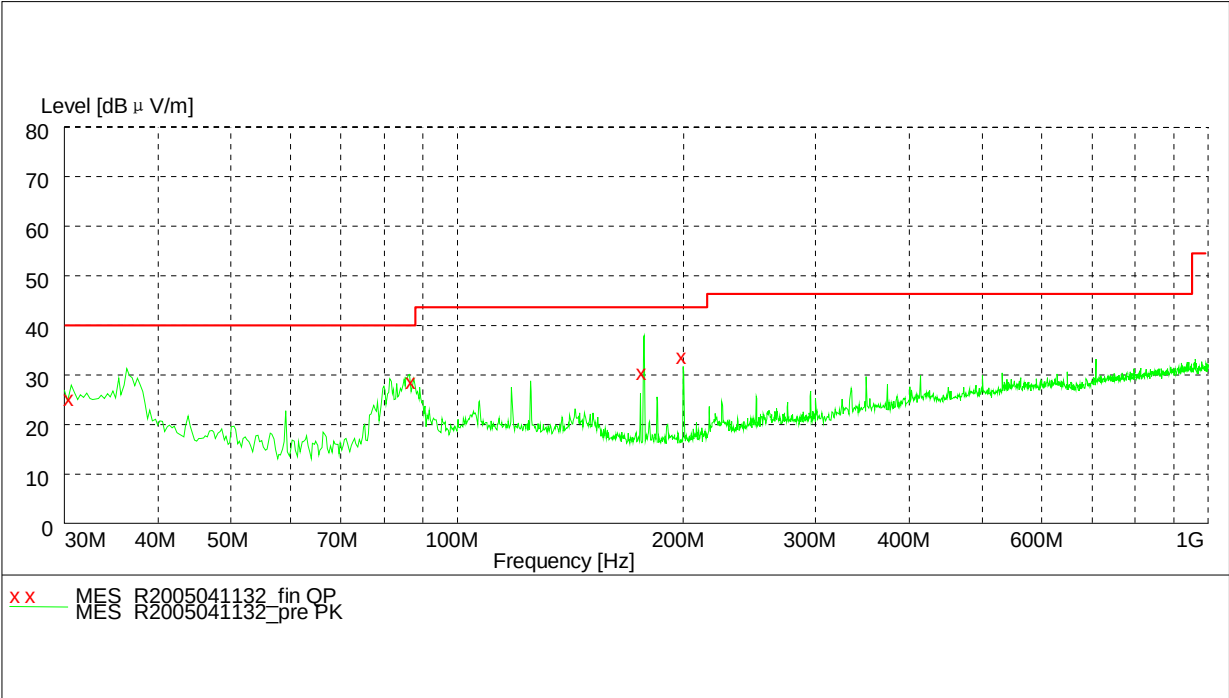
According to CFR 47 (FCC) part 15.207

Test Report No.: SYBH(E)25022005

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RADIATED EMISSION TEST

Test result of BTS3606A:



MEASUREMENT RESULT: " R2005041132_fin QP"

Frequency (MHz)	Level (dB μ V)	Transd (dB)	Limit (dB μ V)	Margin (dB)	Height (cm)	Azimuth (deg)	Polarisation
30.600000	26.10	-3.7	40.0	13.9	112.0	95.00	VERTICAL
87.420000	29.50	-12.5	40.0	10.5	111.0	303.00	VERTICAL
176.940000	31.40	-11.0	43.5	12.1	100.0	280.00	VERTICAL
199.980000	34.60	-10.7	43.5	8.9	100.0	0.00	VERTICAL

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Appendix I

Photos of Test Set-up

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BTS3606A



Photo ERP Measurement 30 MHz – 1 GHz

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Photo ERP measurement 1 GHz – 10 GHz

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BTS3606A

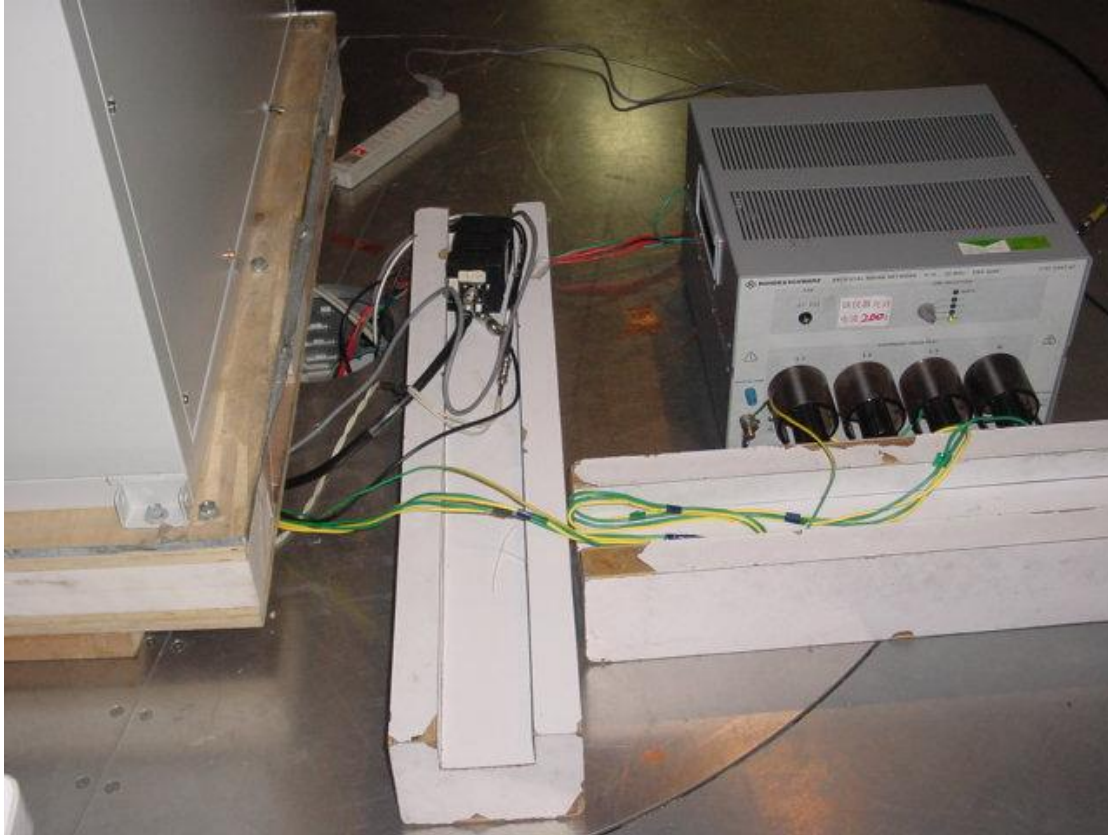


Photo Conducted Emission Measurement