



Appendix A

Modulation Characteristic Measurement

According to CFR 47 (FCC) part 2.1047



CDMA2000 1X:

RC1 Channel 1



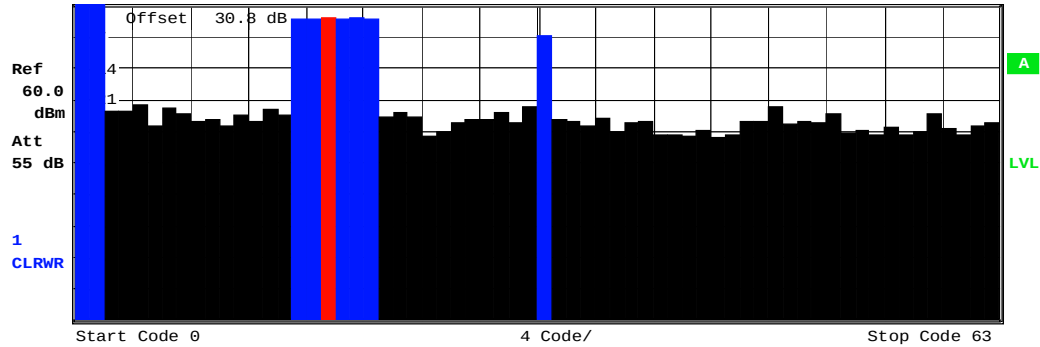
BS,1X,C0 : CODE POWER

SR 19.2 kbps

Chan 17.64

PCG 0

dB PICH CF 870.03 MHz



RESULT SUMMARY TABLE

SR 19.2 kbps

Chan 17.64

PCG 0

Offset 30.8 dB CF 870.03 MHz

EXT

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.24 dBm	Carr Freq Error	767.20 MHz
Pilot PWR	36.18 dBm	Carr Freq Error	0.00 ppm
RHO	0.96739	Chip Rate Error	-0.04 ppm
Composite EVM	18.36 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-29.58 dB	Active Channels	9
IQ Imbal/Offset	1.03/0.14 %		
CHANNEL RESULTS:		Modulation	
Symbol Rate	19.2 kbps	Timing Offset	-.-- ns
Channel.SF	17.64	Phase Offset	-.-- mrad
Channel Power Rel	-3.23 dB	Channel Power Abs	32.95 dBm
Symbol EVM	9.43 % rms	Symbol EVM	18.18 % Pk

AB

Date: 17.JUN.2008 17:11:48

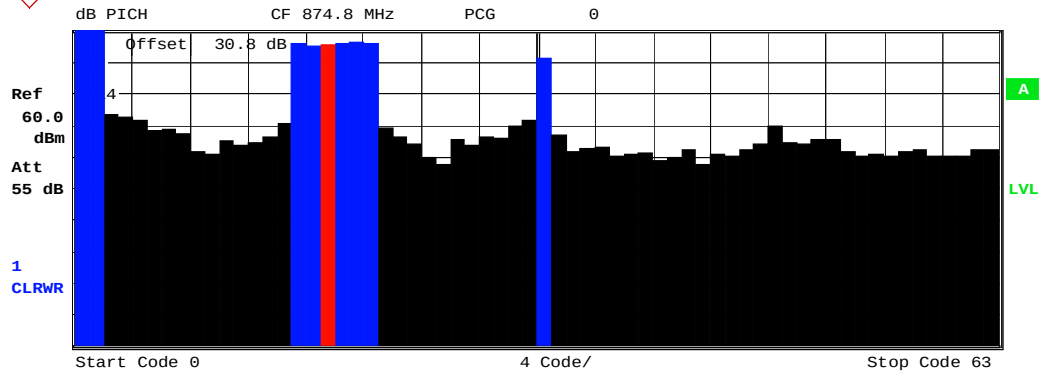


Channel 160



BS,1X,C0 :CODE POWER

SR 19.2 ksp/s
Chan 17.64
PCG 0



RESULT SUMMARY TABLE

SR 19.2 ksp/s
Chan 17.64
PCG 0

EXT

Offset 30.8 dB CF 874.8 MHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.01 dBm	Carr Freq Error	-1.08 Hz
Pilot PWR	35.80 dBm	Carr Freq Error	-0.00 ppm
RHO	0.95790	Chip Rate Error	0.03 ppm
Composite EVM	20.97 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-26.04 dB	Active Channels	9
IQ Imbal/Offset	1.47/0.27 %		
CHANNEL RESULTS:		Modulation BPSK	
Symbol Rate	19.2 ksp/s	Timing Offset	-.-- ns
Channel.SF	17.64	Phase Offset	-.-- mrad
Channel Power Rel	-3.47 dB	Channel Power Abs	32.33 dBm
Symbol EVM	9.23 % rms	Symbol EVM	19.17 % Pk

AB

Date: 17.JUN.2008 17:10:34



Channel 311

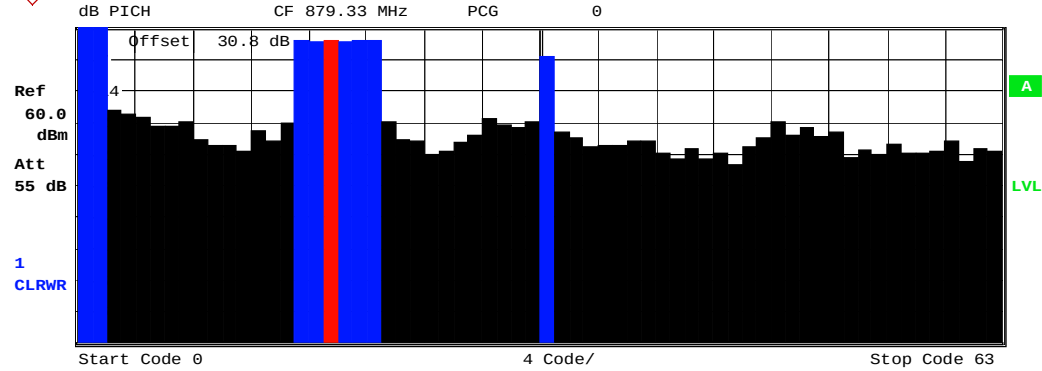


BS,1X,C0 :CODE POWER

SR 19.2 ksp/s

Chan 17.64

PCG 0



RESULT SUMMARY TABLE

SR 19.2 ksp/s

Chan 17.64

EXT

Offset 30.8 dB CF 879.33 MHz PCG 0

RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	42.72 dBm	Carr Freq Error	309.83 mHz
Pilot PWR	35.49 dBm	Carr Freq Error	0.00 ppm
RHO	0.95351	Chip Rate Error	-0.26 ppm
Composite EVM	22.08 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-25.46 dB	Active Channels	9
IQ Imbal/Offset	1.15/0.63 %		
CHANNEL RESULTS:		Modulation BPSK	
Symbol Rate	19.2 ksp/s	Timing Offset	-.-- ns
Channel.SF	17.64	Phase Offset	-.-- mrad
Channel Power Rel	-3.17 dB	Channel Power Abs	32.33 dBm
Symbol EVM	12.58 % rms	Symbol EVM	19.72 % Pk

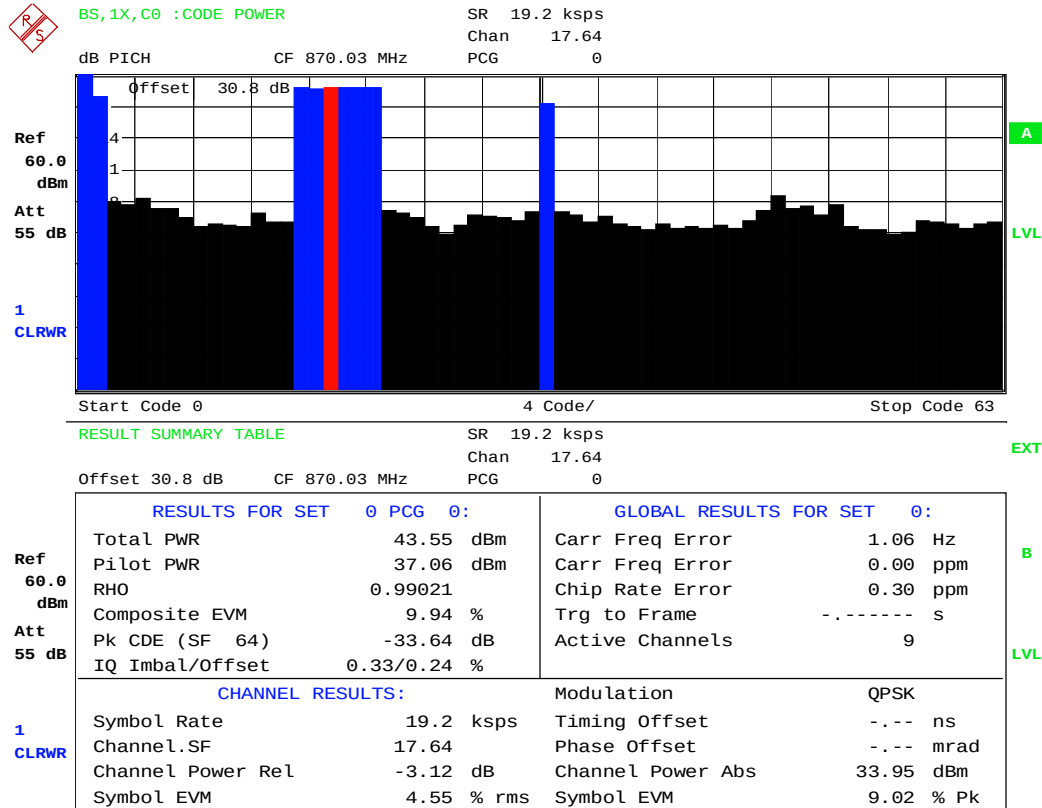
AB

Date: 17.JUN.2008 17:09:06



RC3

Channel 1



AB

Date: 17.JUN.2008 15:22:18

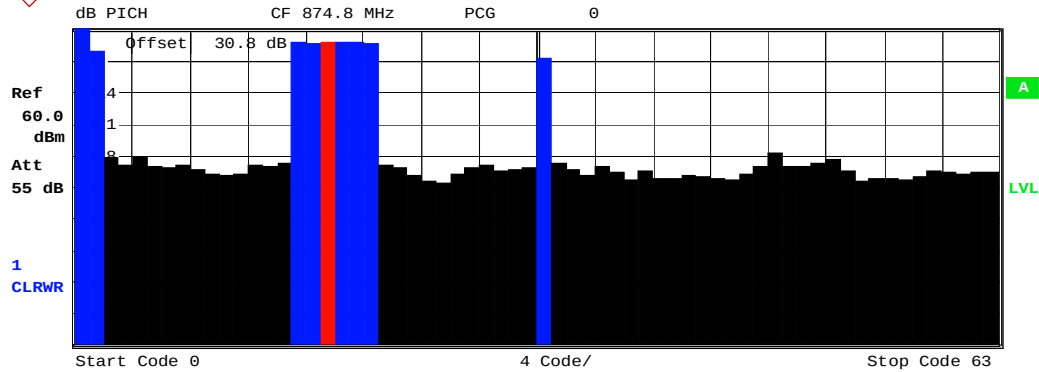


Channel 160



BS,1X,C0 :CODE POWER

SR 19.2 ksp/s
Chan 17.64
PCG 0



RESULT SUMMARY TABLE

SR 19.2 ksp/s
Chan 17.64
PCG 0

Offset 30.8 dB CF 874.8 MHz

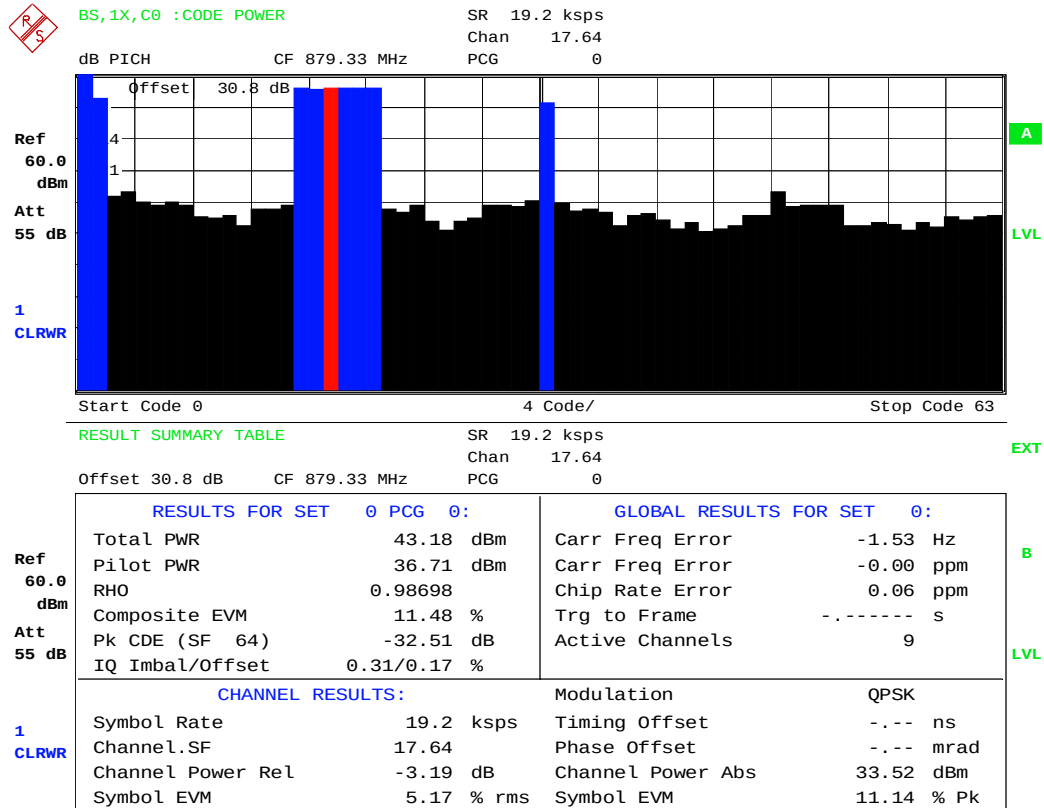
RESULTS FOR SET 0 PCG 0:		GLOBAL RESULTS FOR SET 0:	
Total PWR	43.45 dBm	Carr Freq Error	393.81 mHz
Pilot PWR	36.99 dBm	Carr Freq Error	0.00 ppm
RHO	0.98977	Chip Rate Error	-0.06 ppm
Composite EVM	10.17 %	Trg to Frame	-.----- s
Pk CDE (SF 64)	-34.27 dB	Active Channels	9
IQ Imbal/Offset	0.58/0.40 %		
CHANNEL RESULTS:		Modulation QPSK	
Symbol Rate	19.2 ksp/s	Timing Offset	-.-- ns
Channel.SF	17.64	Phase Offset	-.-- mrad
Channel Power Rel	-3.19 dB	Channel Power Abs	33.80 dBm
Symbol EVM	3.76 % rms	Symbol EVM	6.76 % Pk

AB

Date: 17.JUN.2008 15:34:48



Channel 311

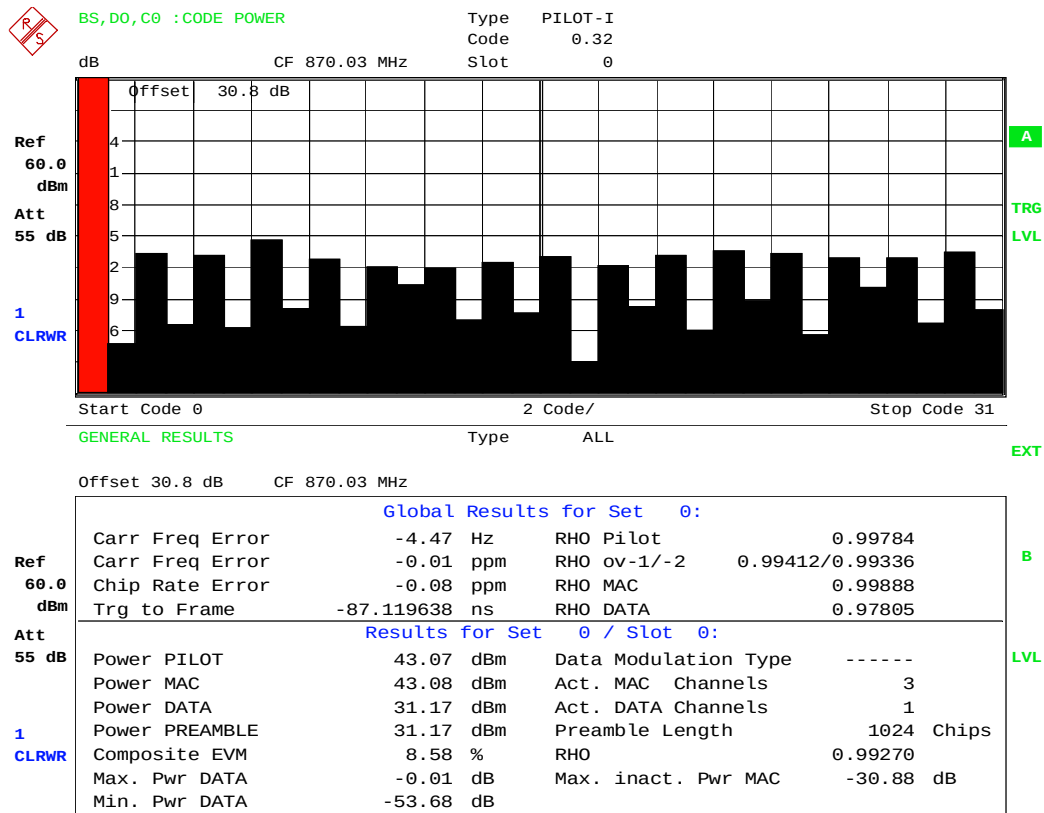


AB

Date: 17.JUN.2008 14:38:34



CDMA2000 1X EV-DO: Channel 1

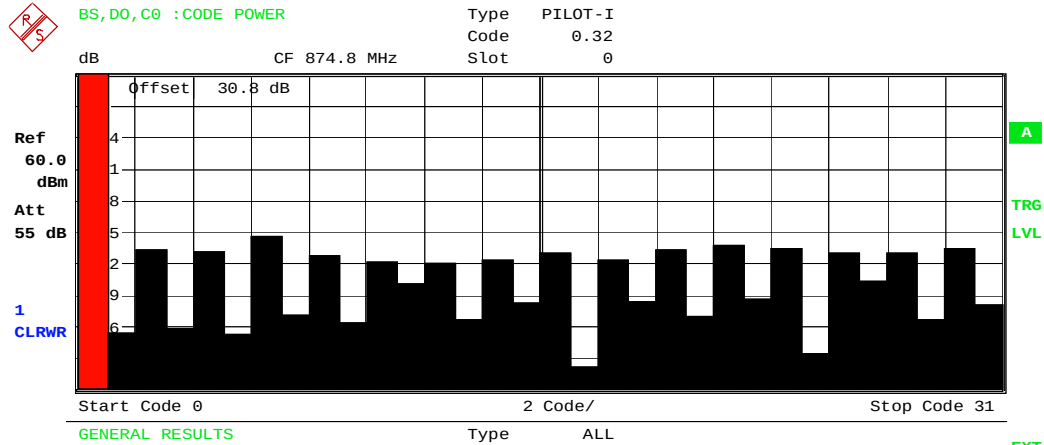


AB

Date: 1.JUL.2008 16:35:19



Channel 160



Offset 30.8 dB CF 874.8 MHz

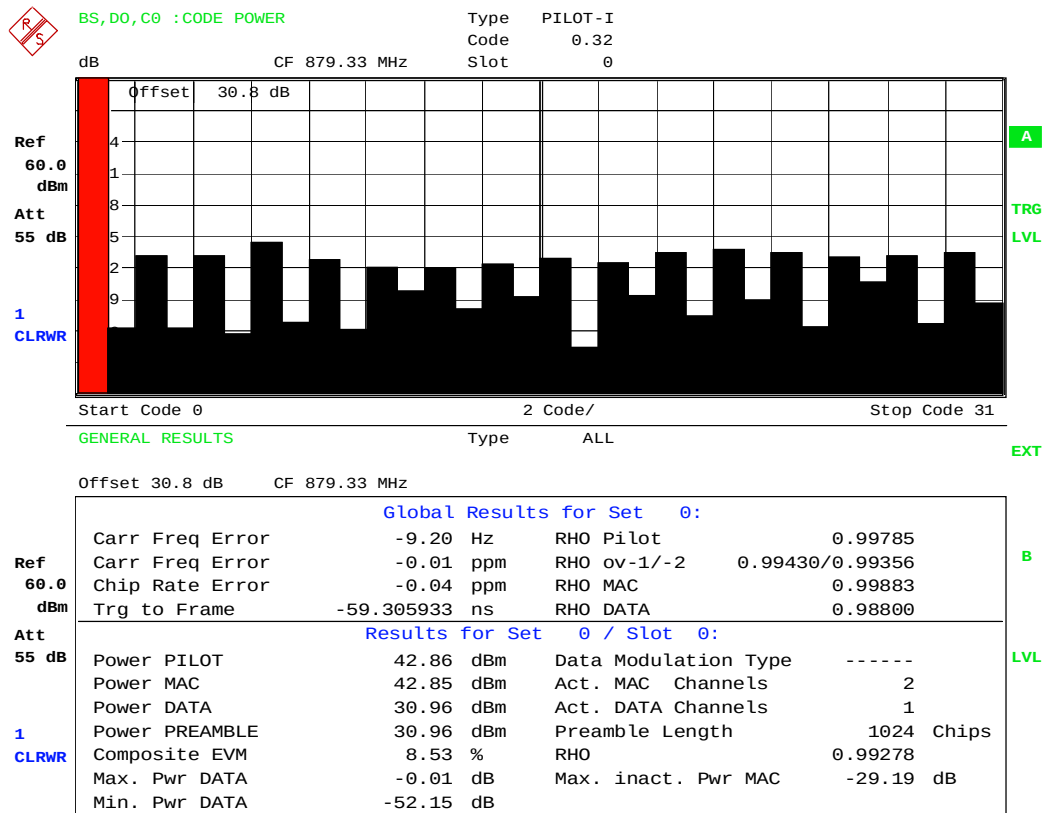
Global Results for Set 0:			
Carr Freq Error	-9.24 Hz	RHO Pilot	0.99789
Carr Freq Error	-0.01 ppm	RHO ov-1/-2	0.99407/0.99332
Chip Rate Error	-0.12 ppm	RHO MAC	0.99888
Trg to Frame	-93.021775 ns	RHO DATA	0.98403
Results for Set 0 / Slot 0:			
Power PILOT	42.89 dBm	Data Modulation Type	-----
Power MAC	42.90 dBm	Act. MAC Channels	2
Power DATA	31.00 dBm	Act. DATA Channels	1
Power PREAMBLE	30.99 dBm	Preamble Length	1024 Chips
Composite EVM	8.32 %	RHO	0.99312
Max. Pwr DATA	-0.02 dB	Max. inact. Pwr MAC	-29.10 dB
Min. Pwr DATA	-53.44 dB		

AB

Date: 1.JUL.2008 16:32:19



Channel 311



AB

Date: 1.JUL.2008 16:28:35



Appendix B

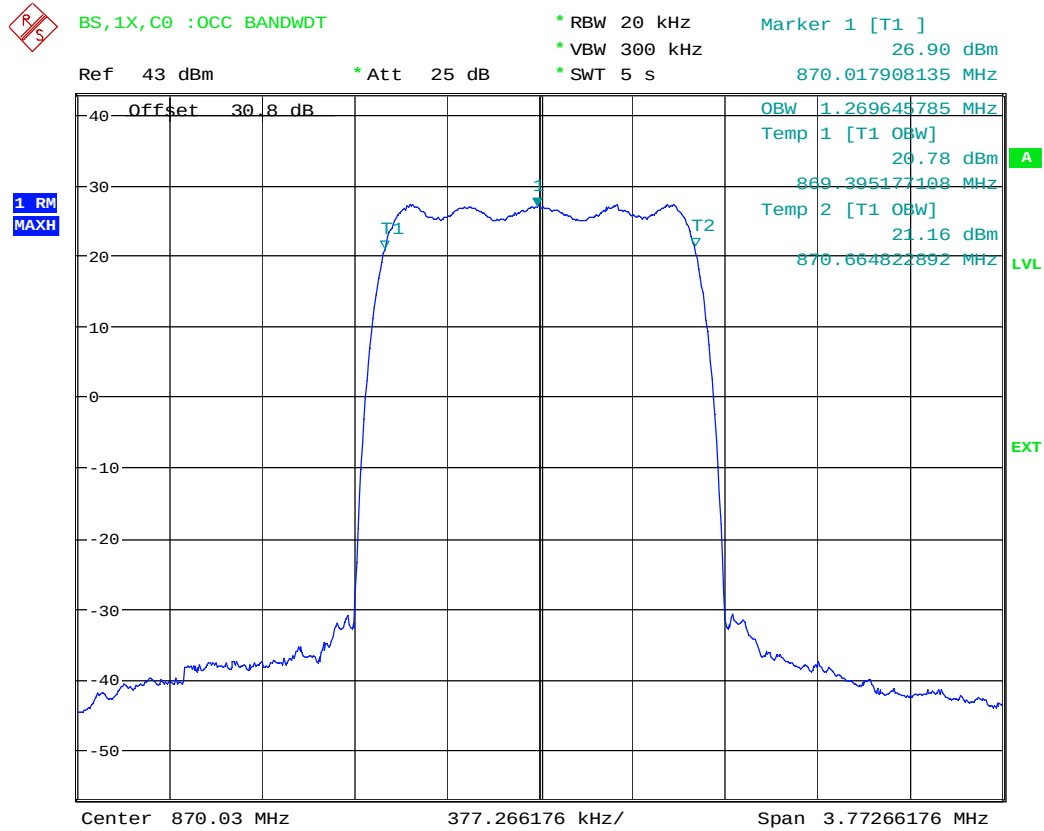
Occupied Bandwidth Measurement

According to CFR 47 (FCC) part 2.1049



CDMA2000 1X

Channel 1

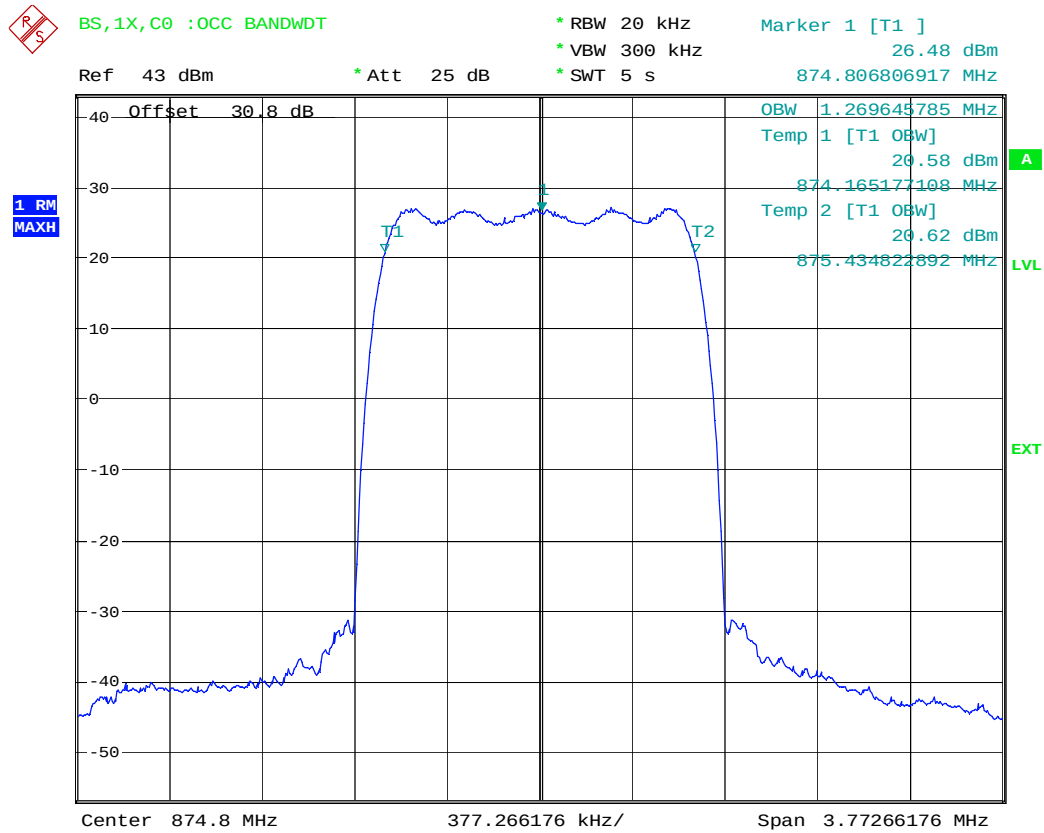


AB

Date: 17.JUN.2008 15:25:31



Channel 160

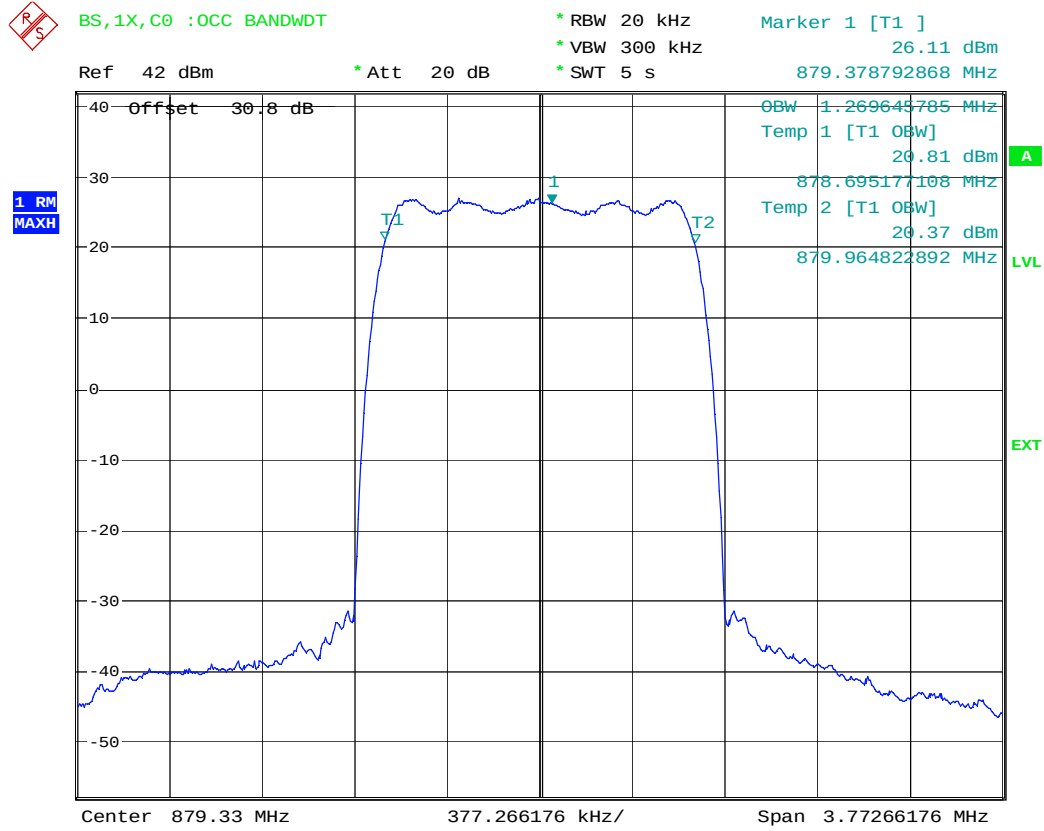


AB

Date: 17.JUN.2008 15:36:08



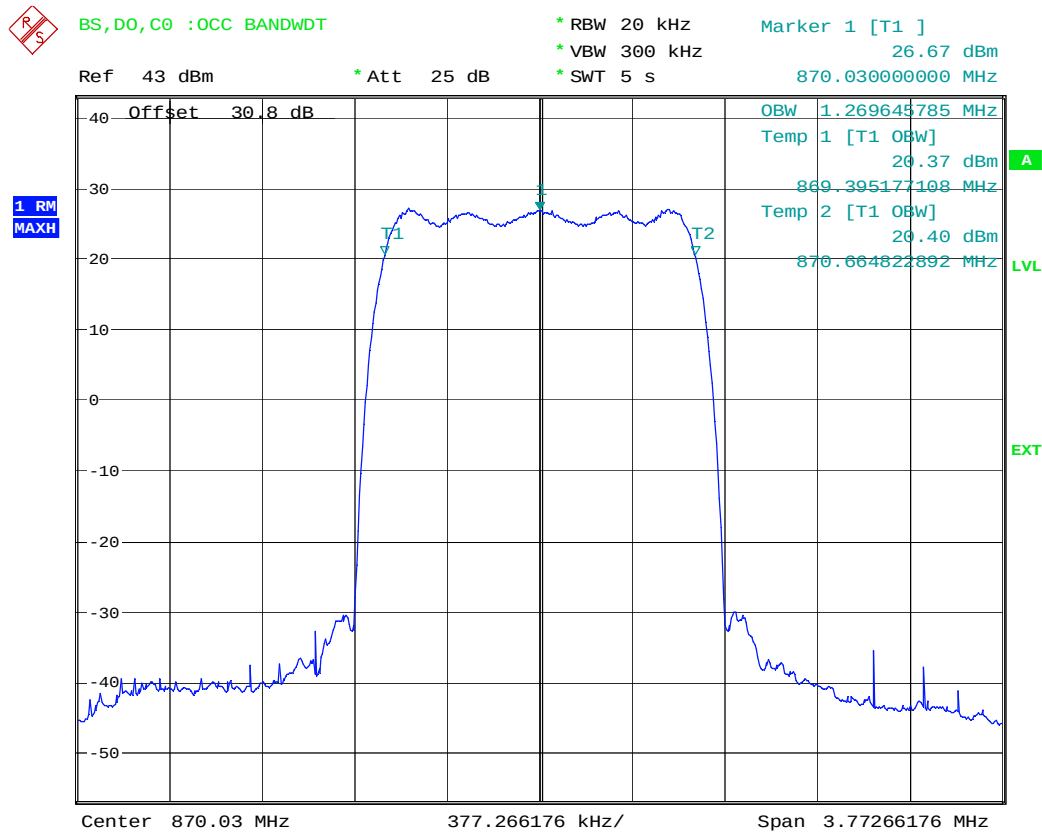
Channel 311



AB

Date: 17.JUN.2008 14:36:03

CDMA2000 1X EV-DO
Channel 1

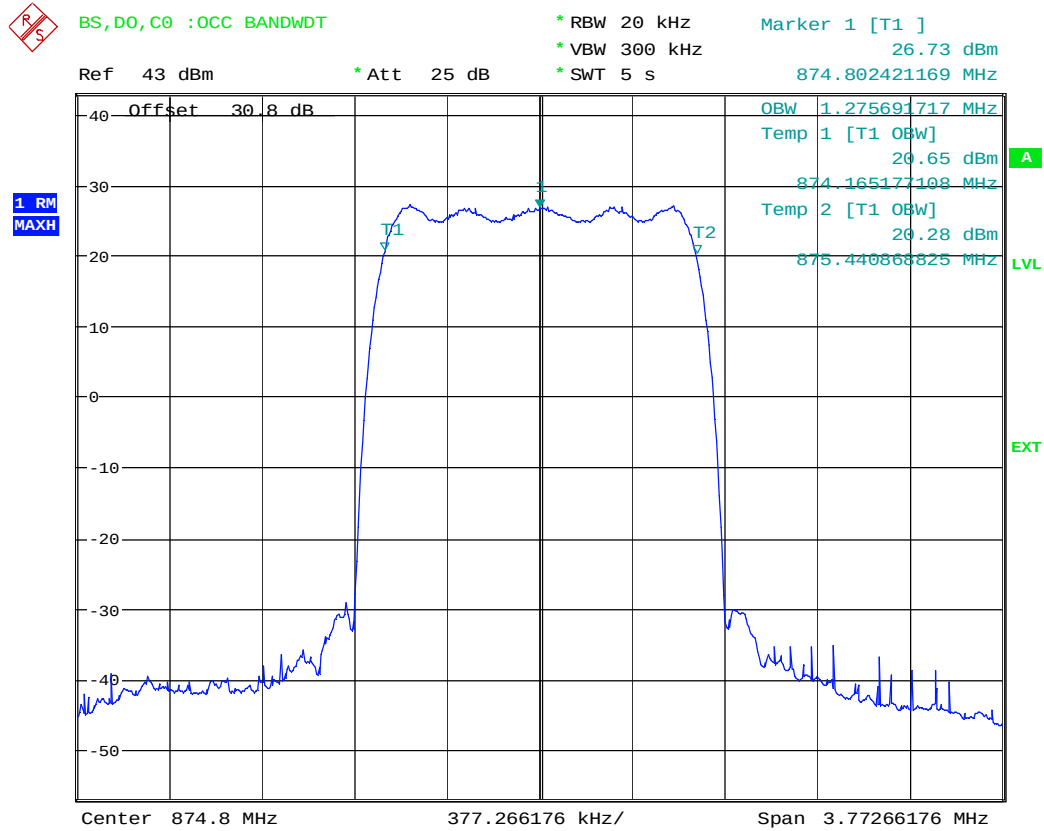


AB

Date: 17.JUN.2008 18:00:51



Channel 160



AB

Date: 17.JUN.2008 18:21:21



Channel 311



BS, DO, CO : OCC BANDWDT

* RBW 20 kHz
* VBW 300 kHz
* SWT 5 s

Marker 1 [T1]

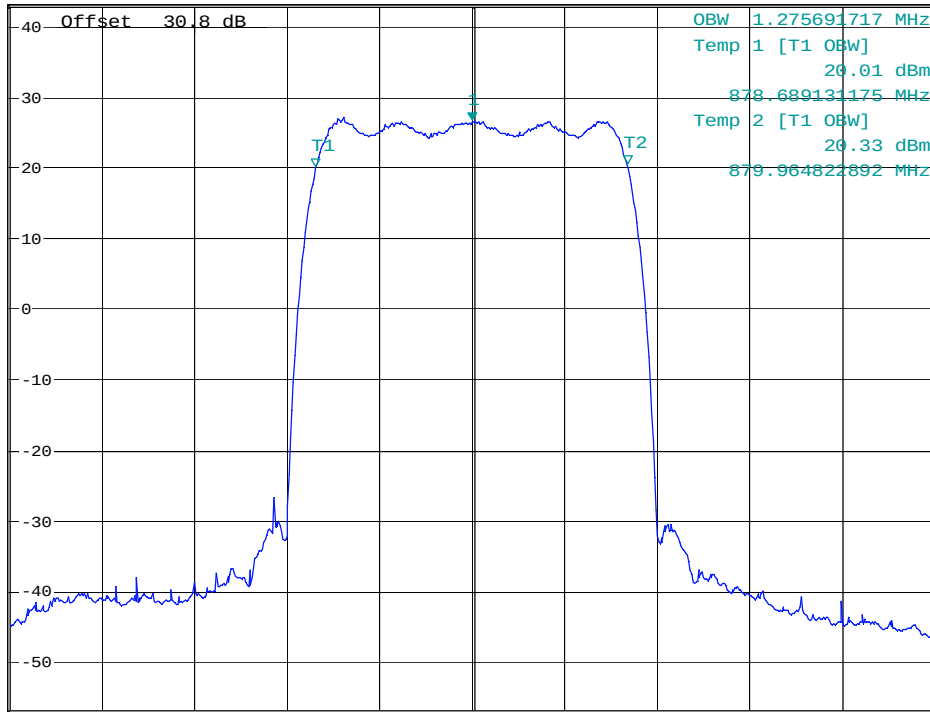
26.46 dBm

879.332113311 MHz

Ref 43 dBm

* Att 25 dB

1 RM
MAXH



LVL

EXT

AB

Date: 17.JUN.2008 18:16:42



Appendix C

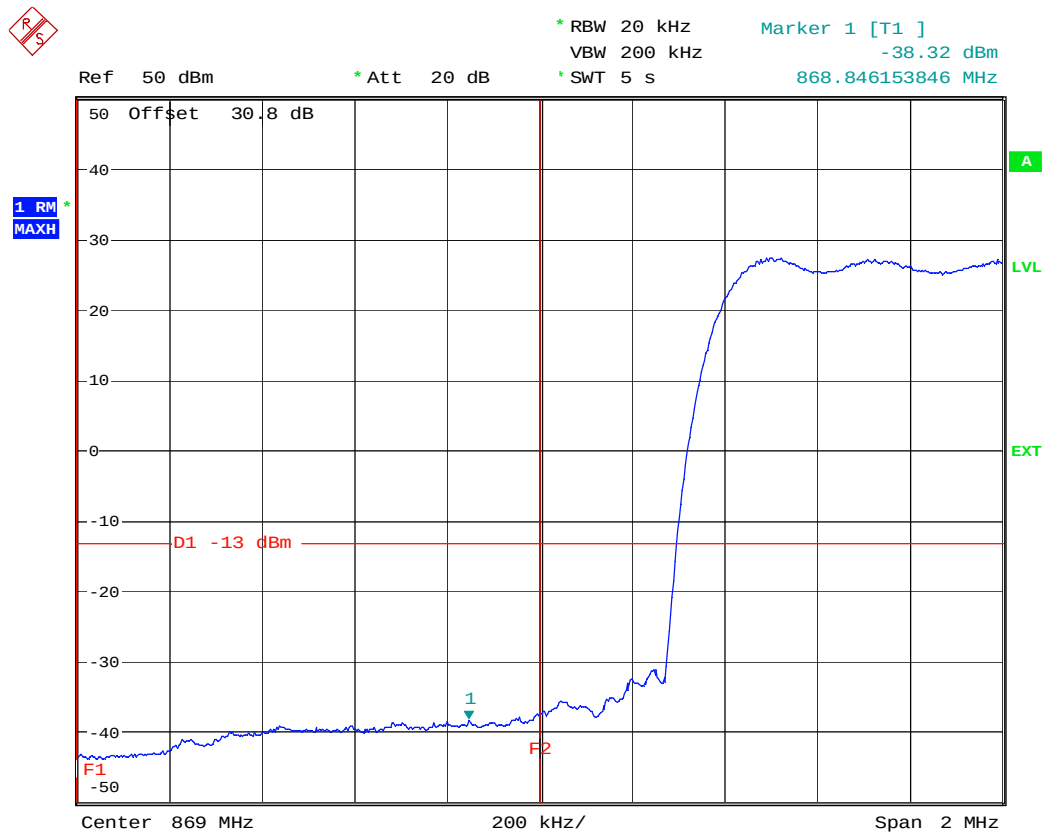
Band Edge Measurements According to FCC Part 2.1051 & 22.917



CDMA2000 1X:

A. Single Carrier:

Channel 1 (870.03 MHz)

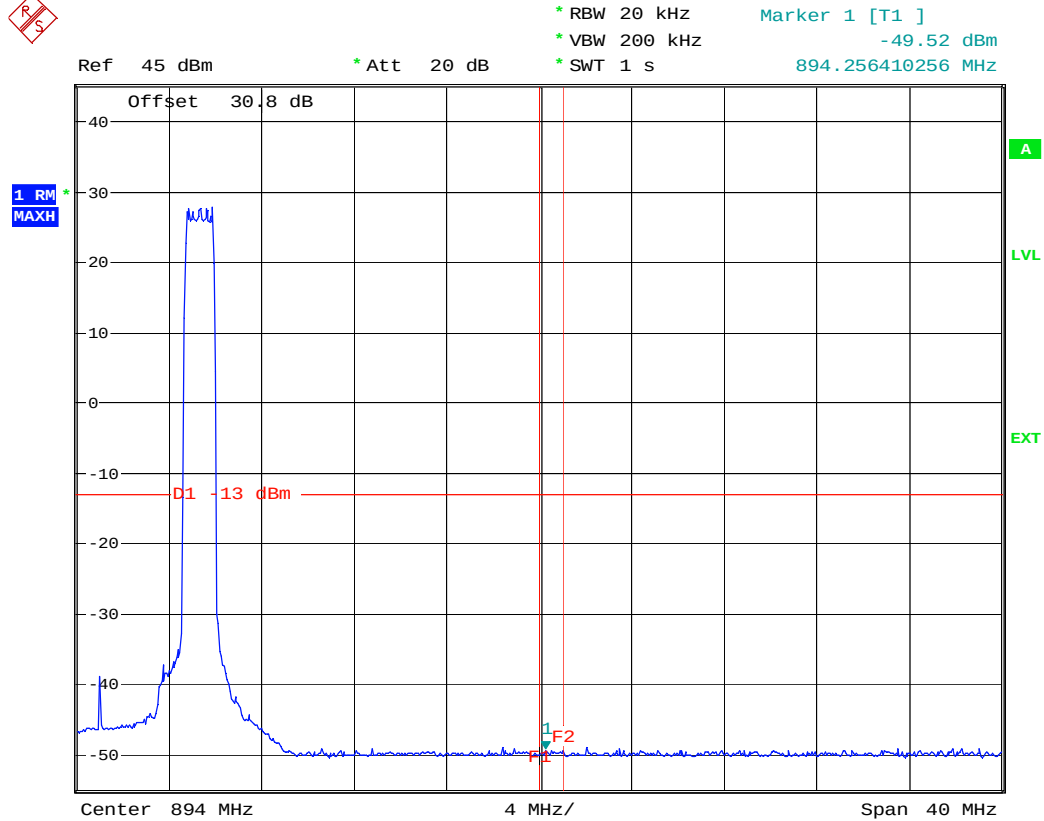


AB

Date: 17.JUN.2008 15:29:55

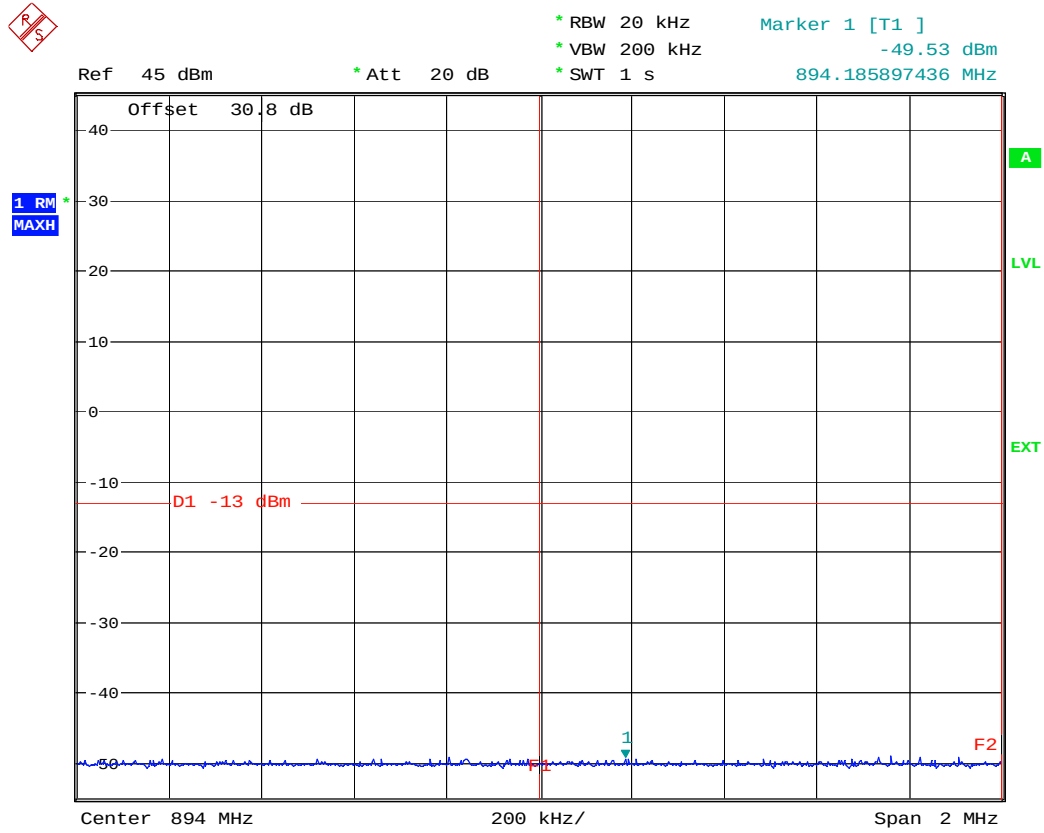


Channel 311(879.33 MHz)



AB

Date: 17.JUN.2008 15:11:29



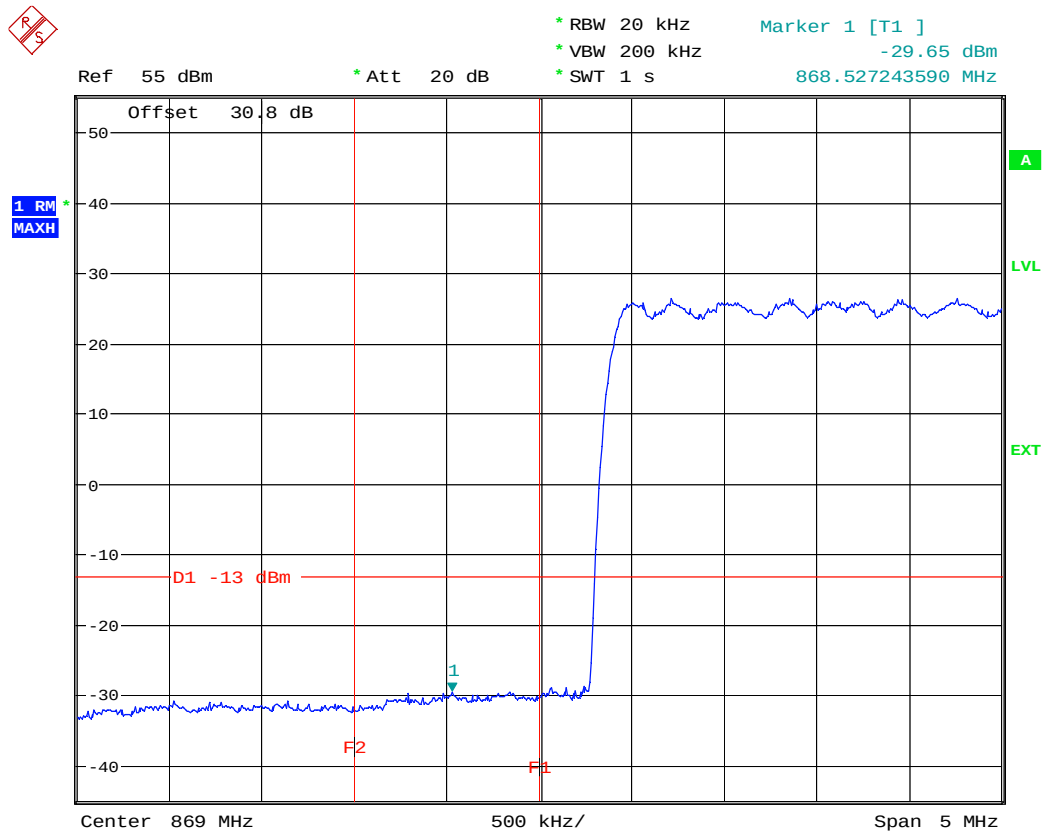
AB

Date: 17.JUN.2008 15:12:19



B. Multiple Carriers:

Channel Number: 1/42/83/124

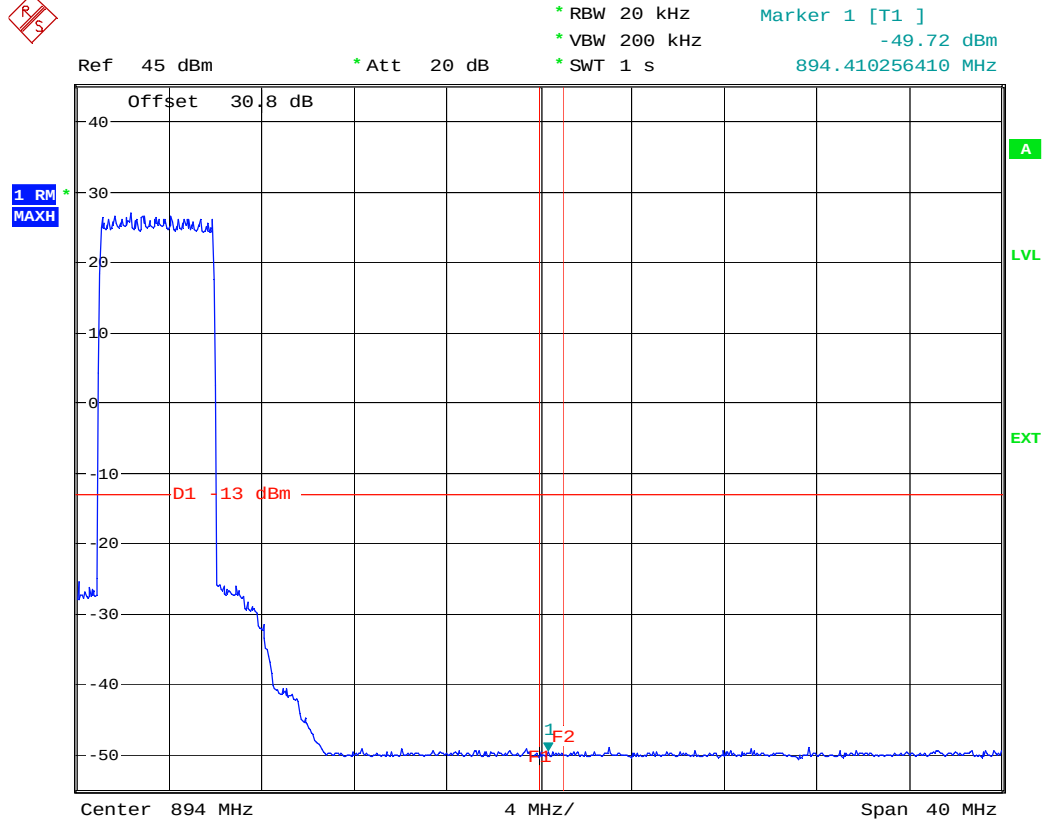


AB

Date: 18.JUN.2008 08:52:08

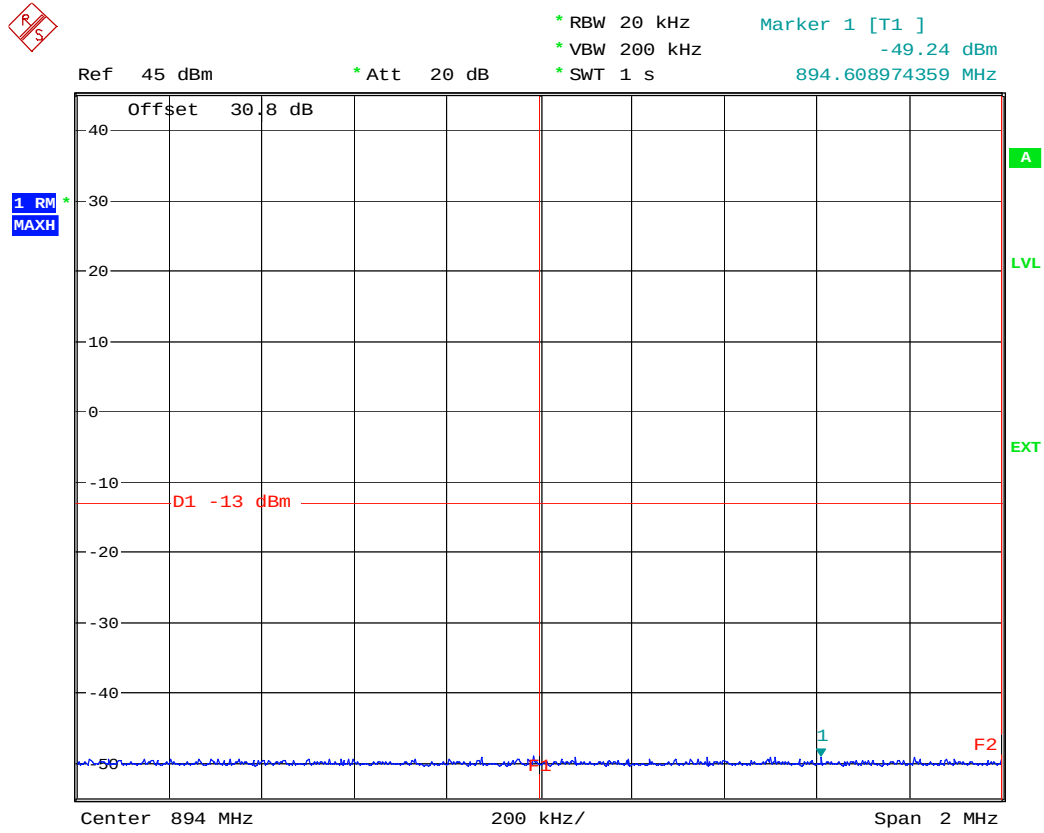


Channel Number: 188/229/270/311



AB

Date: 17.JUN.2008 16:27:54



AB

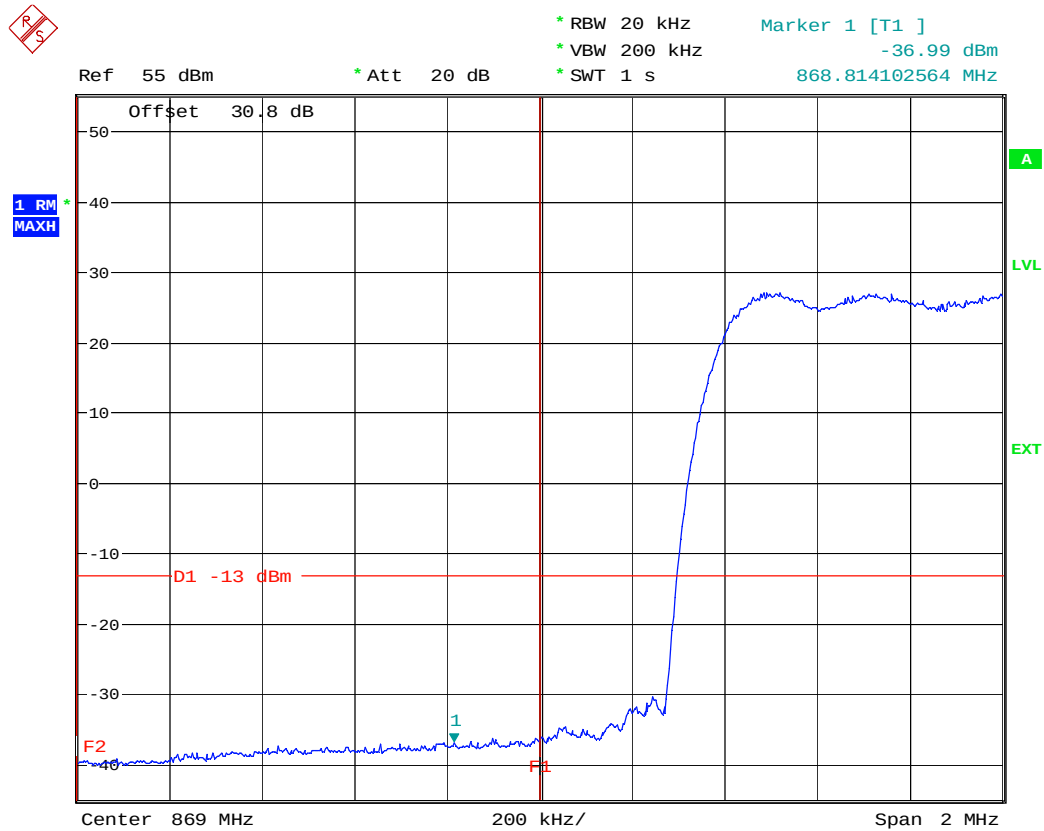
Date: 17.JUN.2008 16:29:00



CDMA2000 EVDO:

A. Single Carrier:

Channel 1 (870.03 MHz)

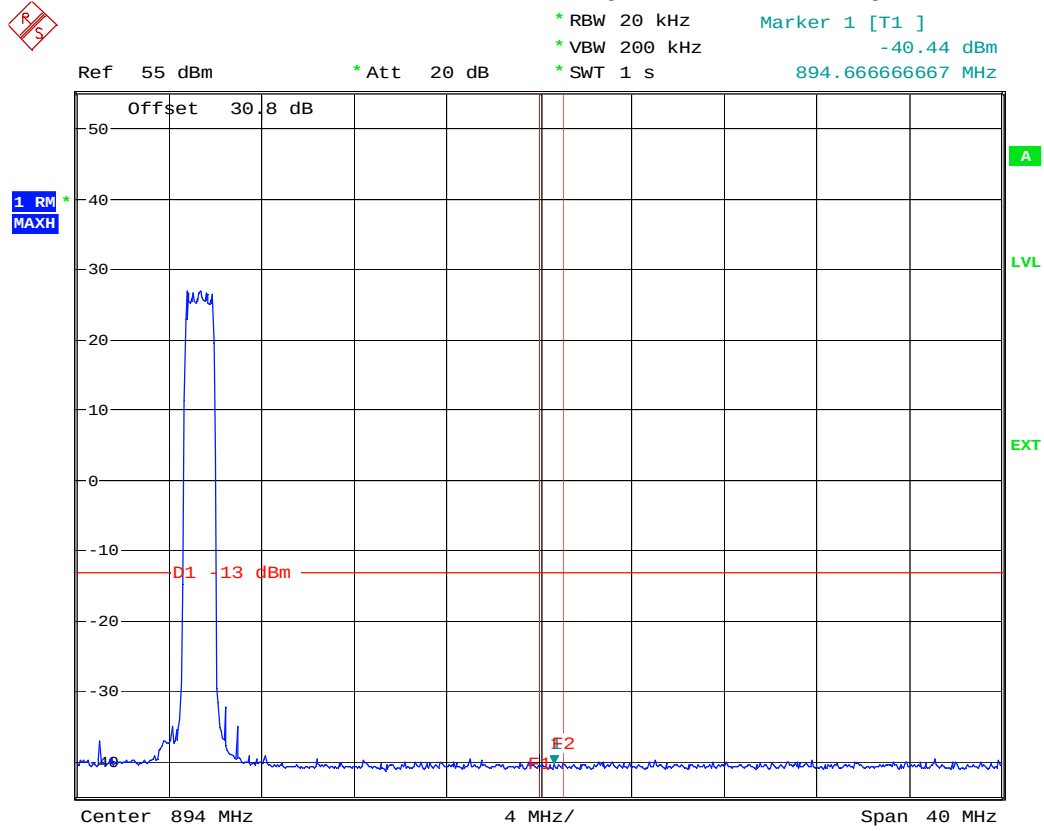


AB

Date: 17.JUN.2008 19:43:09

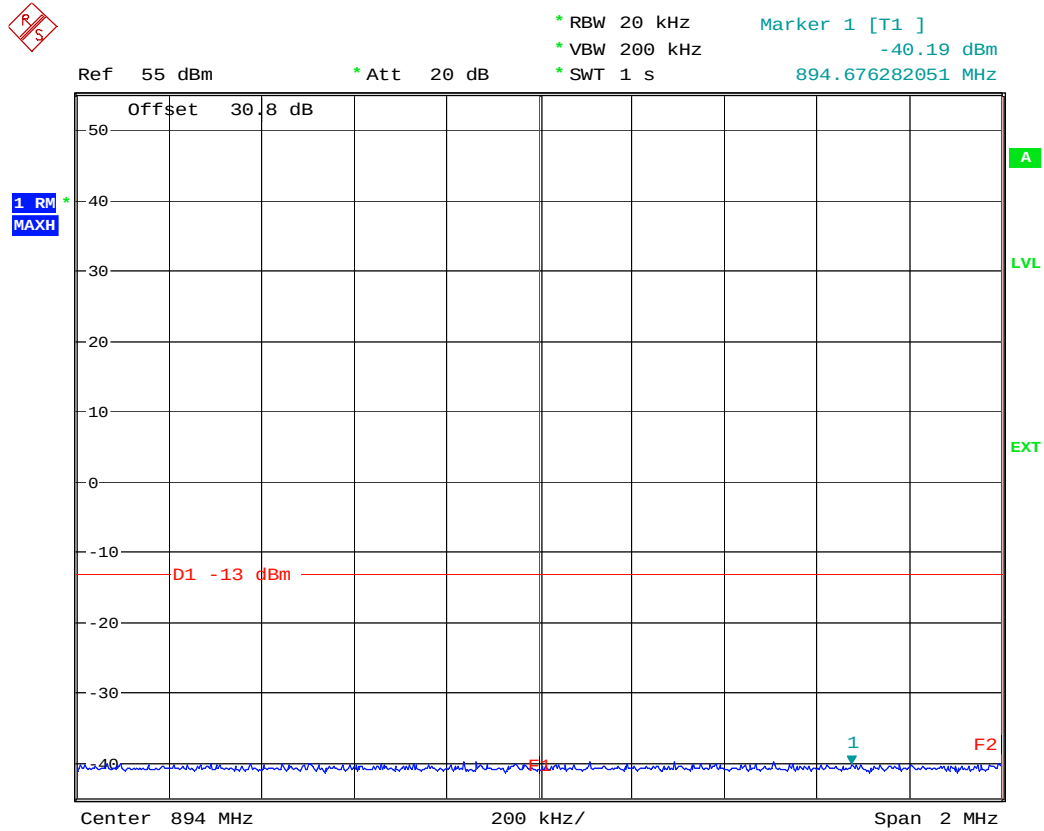


Channel 311 (879.33 MHz)



AB

Date: 17.JUN.2008 19:26:19

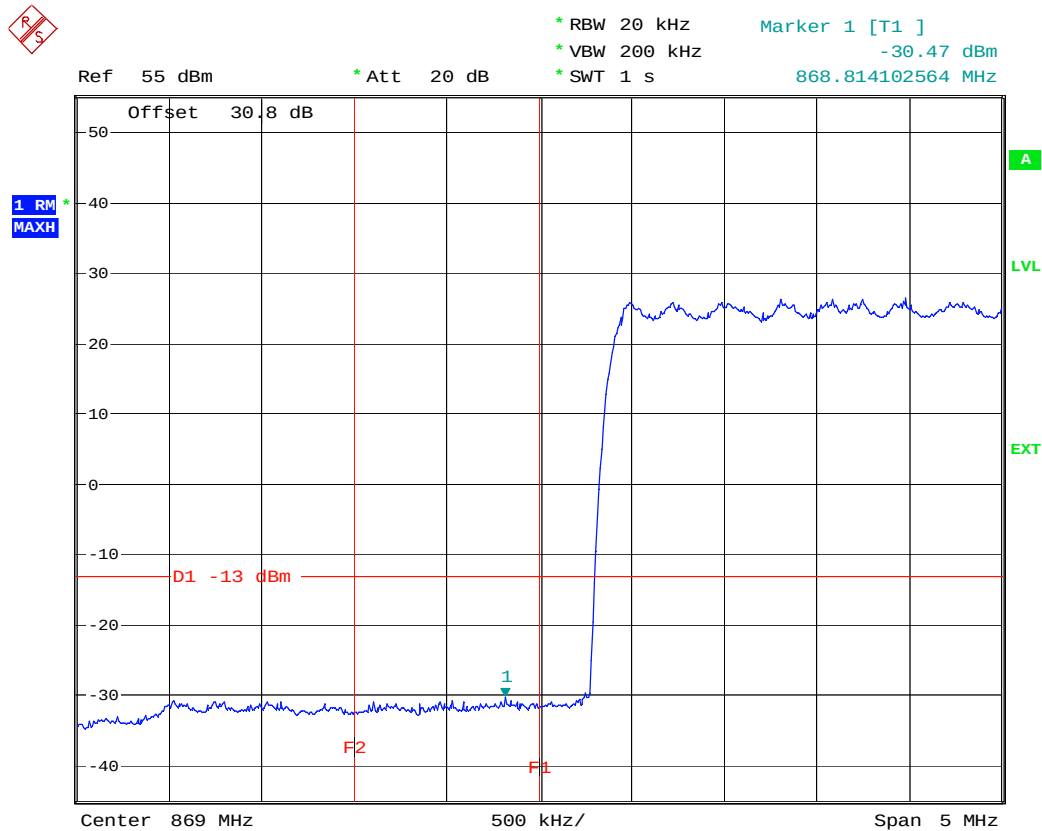


AB

Date: 17.JUN.2008 19:26:54

B. Multiple Carriers:

Channel Number: 1/42/83/124

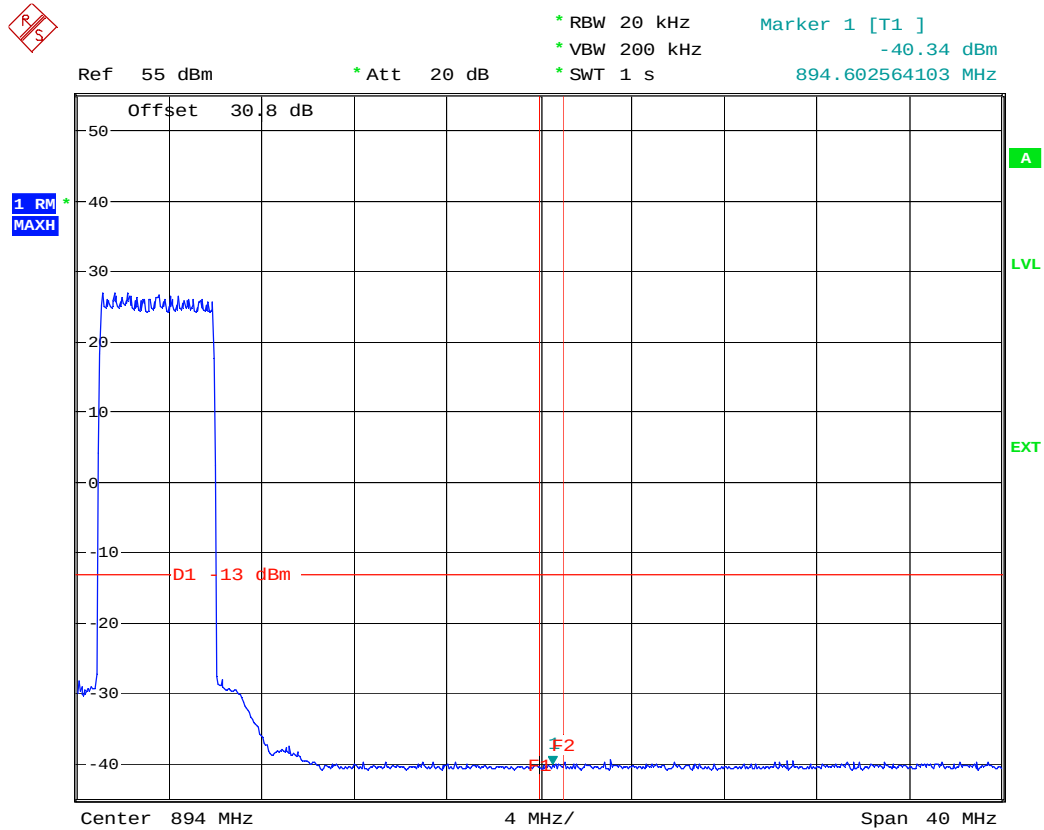


AB

Date: 17.JUN.2008 19:45:52

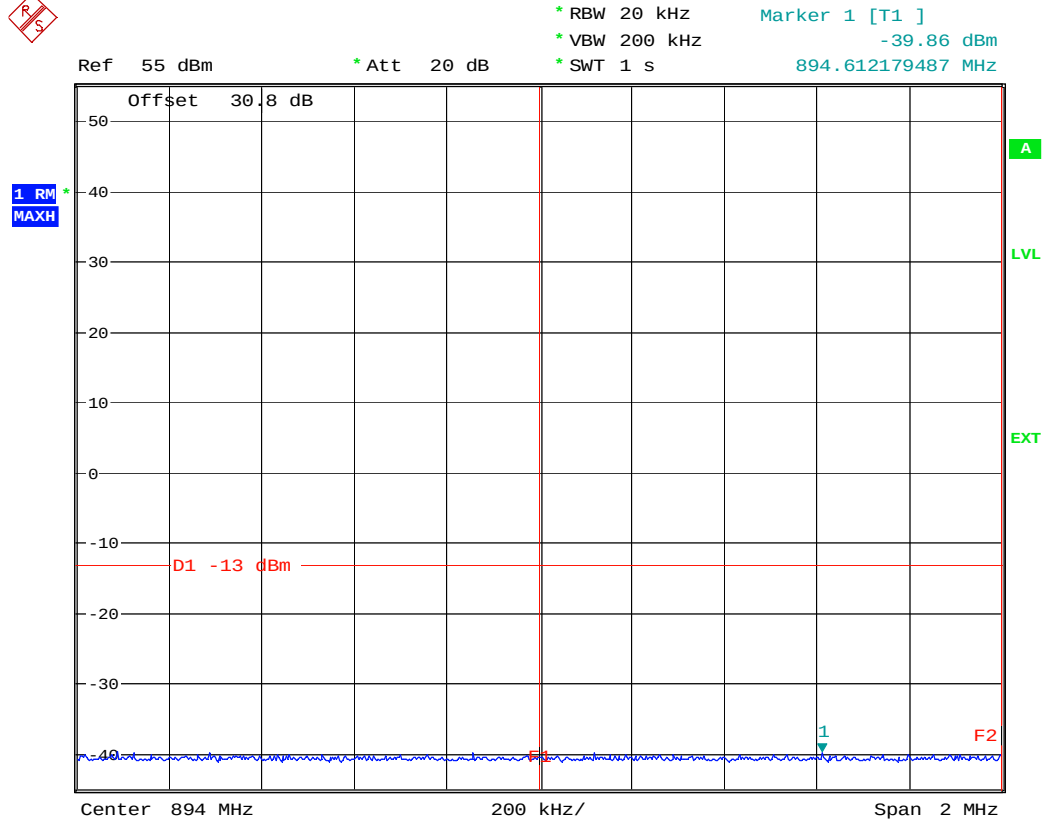


Channel Number:188/229/270/311



AB

Date: 17.JUN.2008 18:52:46



AB

Date: 17.JUN.2008 18:55:51



Appendix D

Conducted Spurious Emission Measurements

According to FCC Part 2.1051 & 22.917

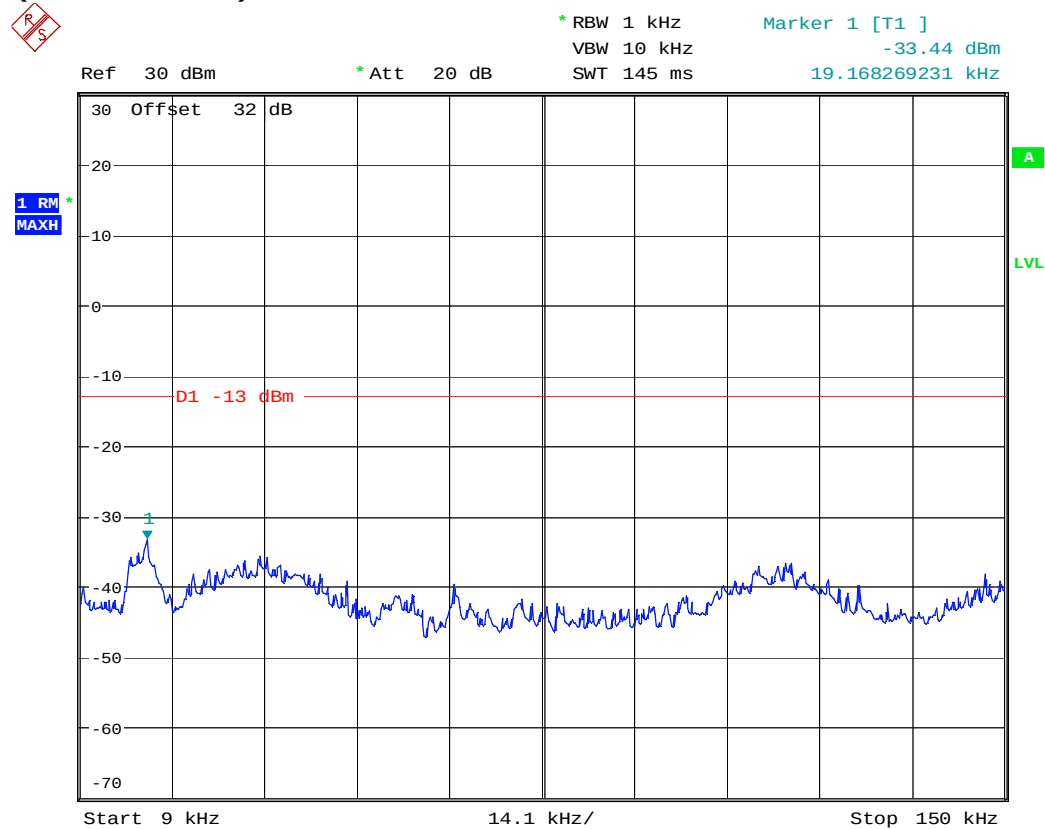


CDMA2000 1X:

A. Single Carrier

Channel Number: 1

(9k ~ 150k)

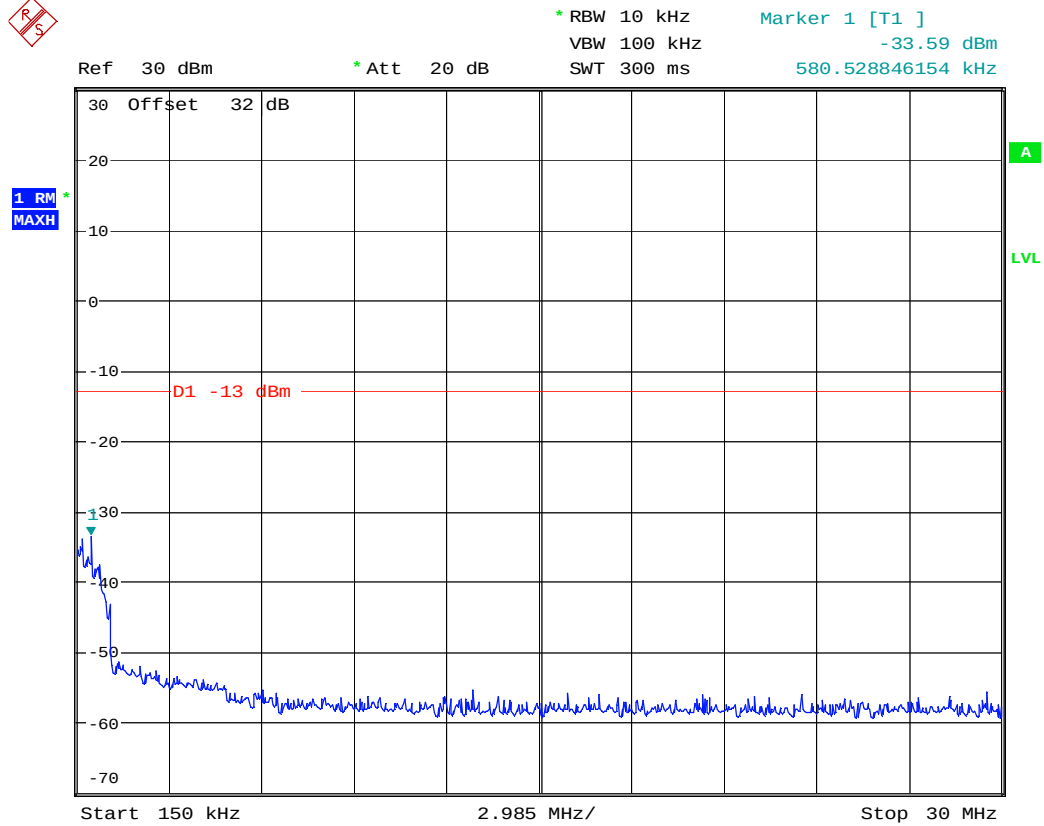


AB

Date: 19.JUN.2008 19:13:44



(150k ~ 30M)

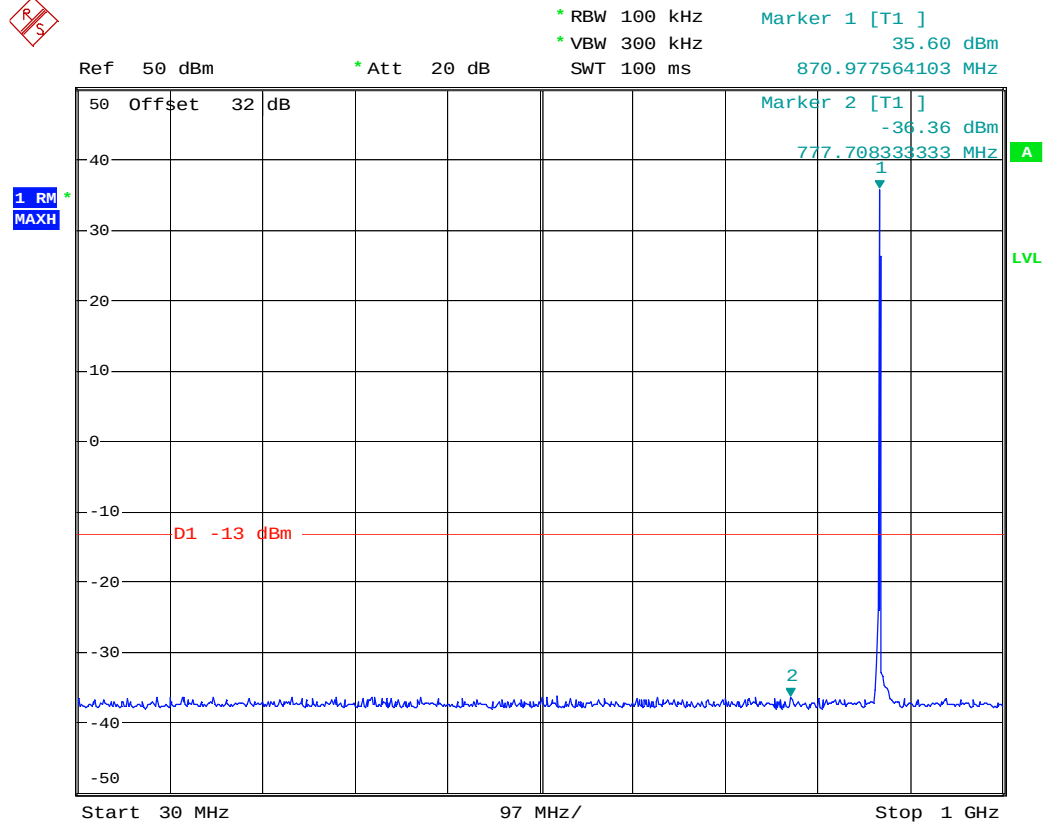


AB

Date: 19.JUN.2008 19:13:01



(30M ~ 1G)

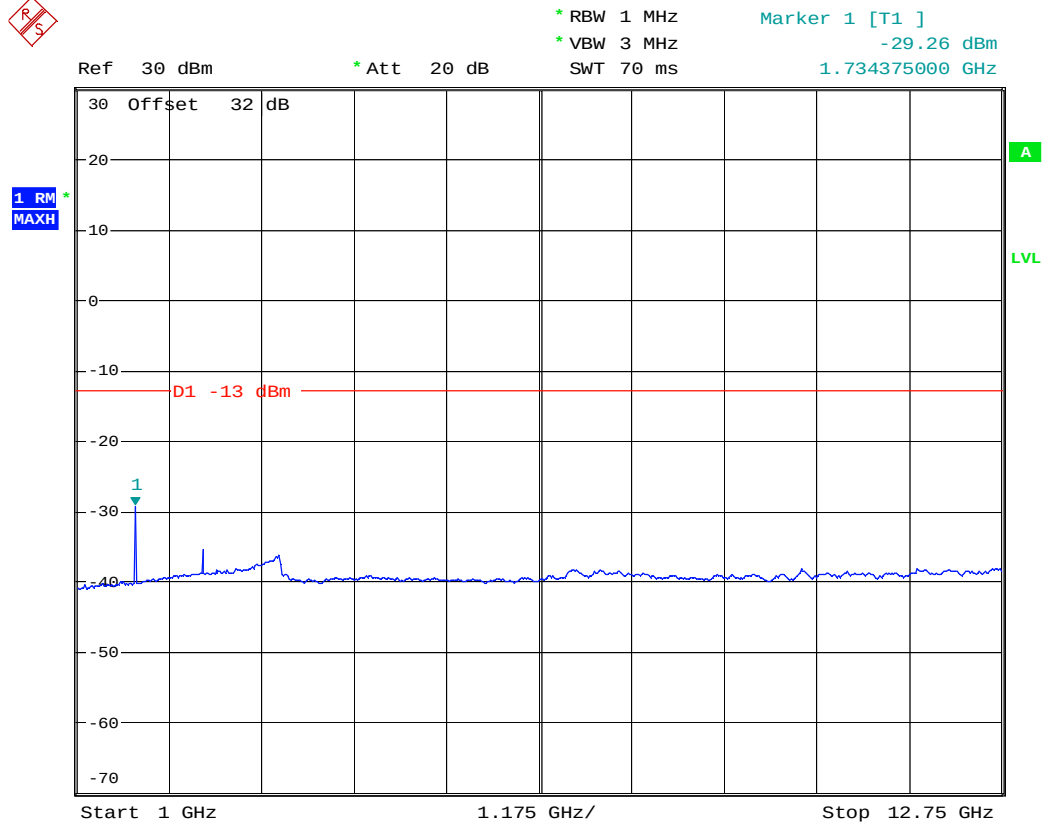


AB

Date: 19.JUN.2008 19:10:38



(1G ~ 12.75G)



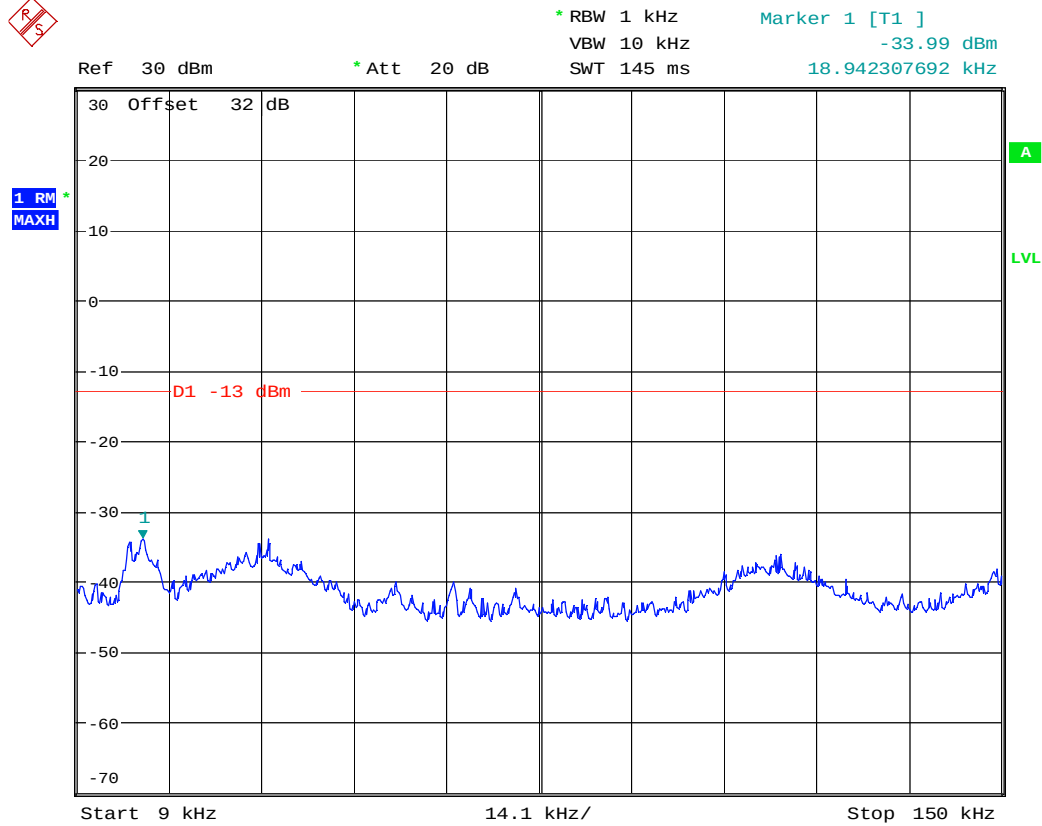
AB

Date: 19.JUN.2008 19:15:12



Channel Number: 160

(9k ~ 150k)

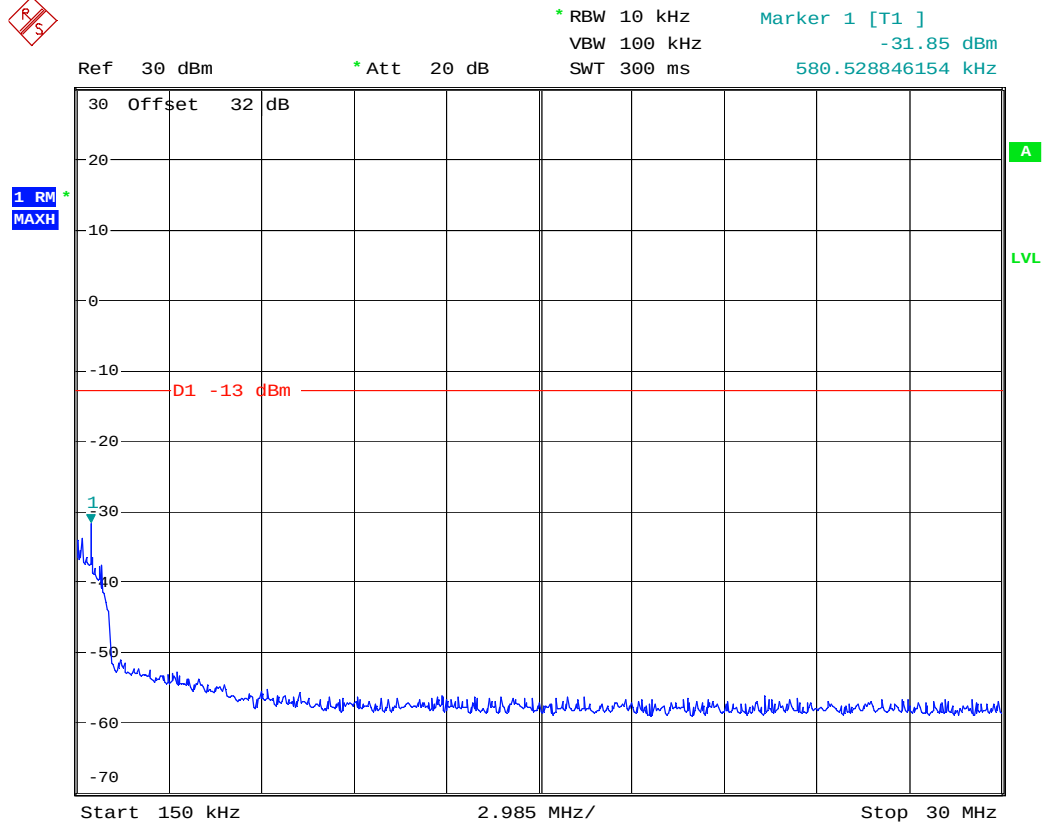


AB

Date: 19.JUN.2008 19:25:10



(150k ~ 30M)

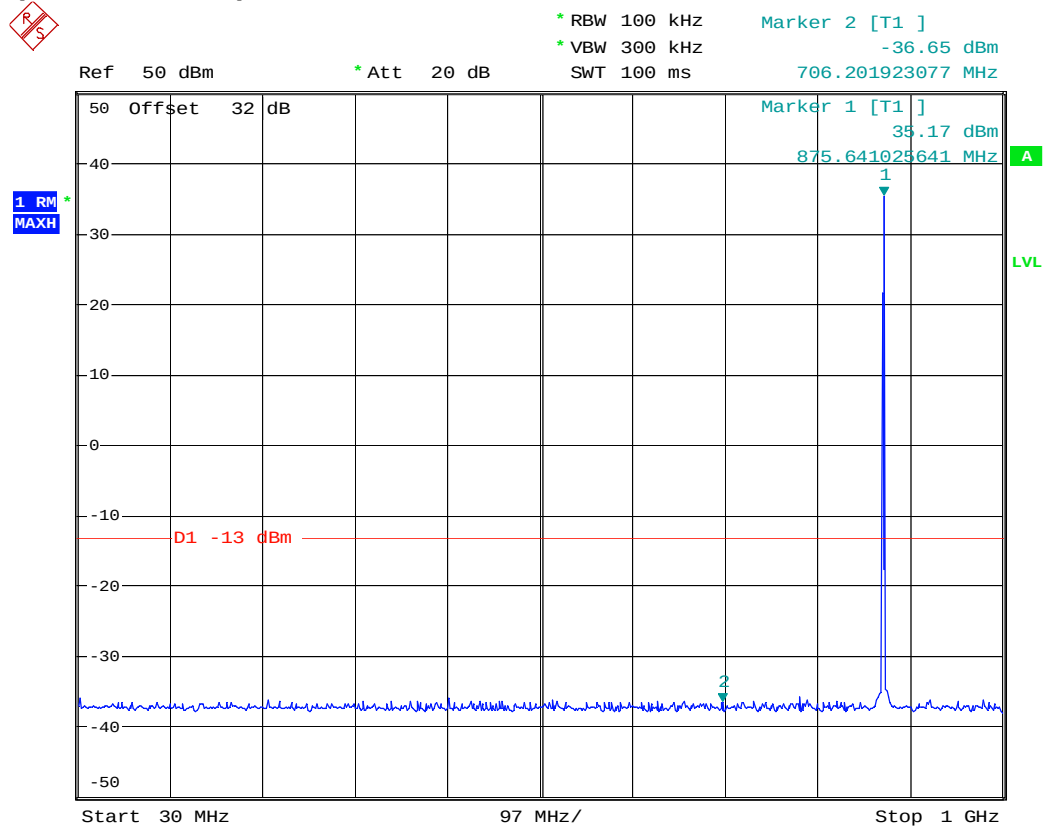


AB

Date: 19.JUN.2008 19:23:53



(30M ~ 1G)

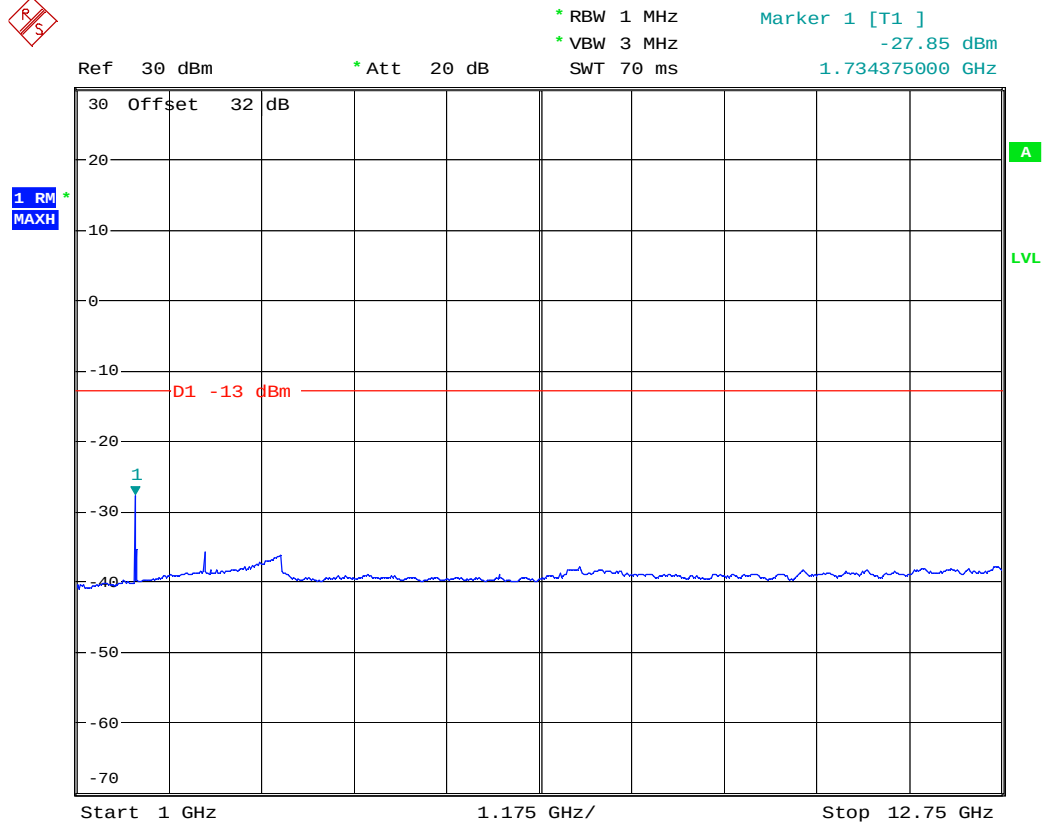


AB

Date: 19.JUN.2008 19:22:29



(1G ~ 12.75G)



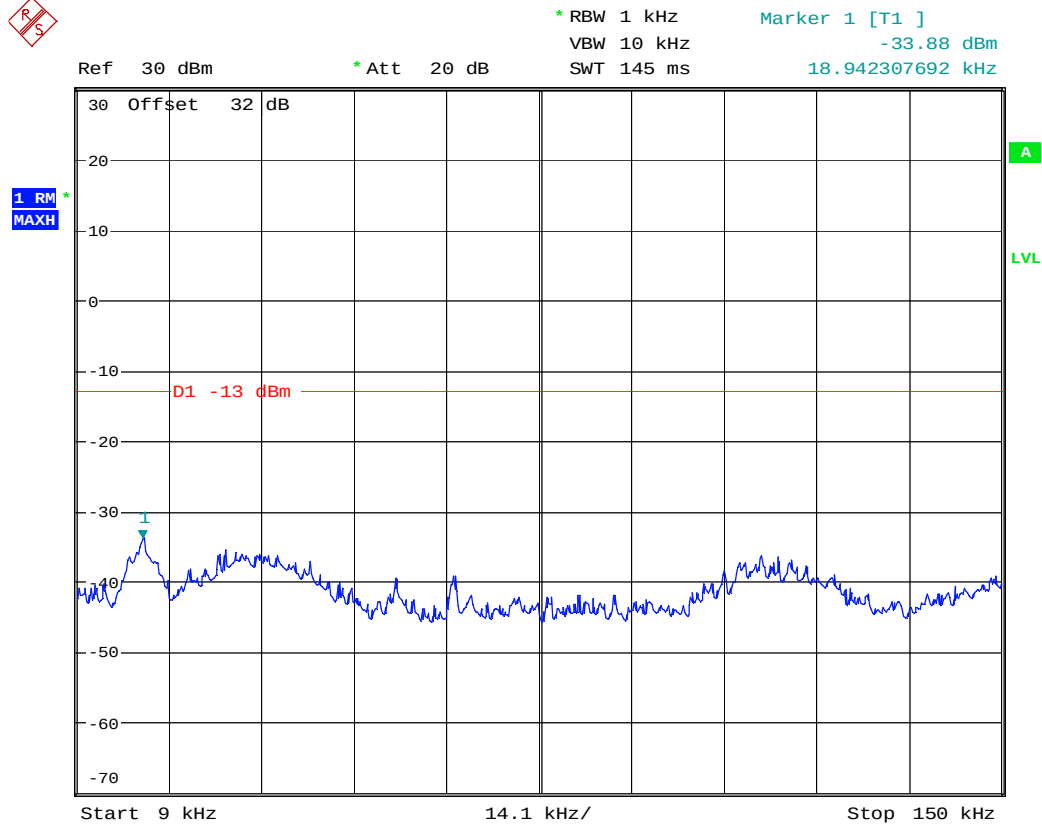
AB

Date: 19.JUN.2008 19:16:57



Channel Number: 311

(9k ~ 150k)

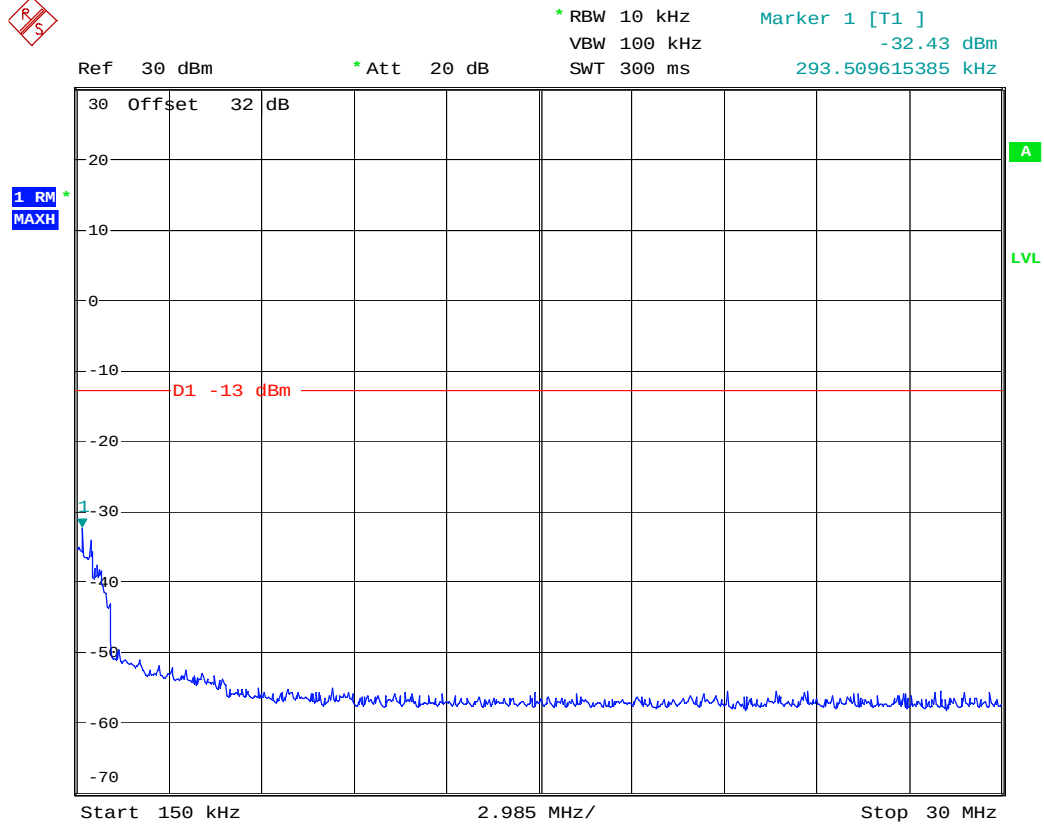


AB

Date: 19.JUN.2008 19:26:35



(150k ~ 30M)

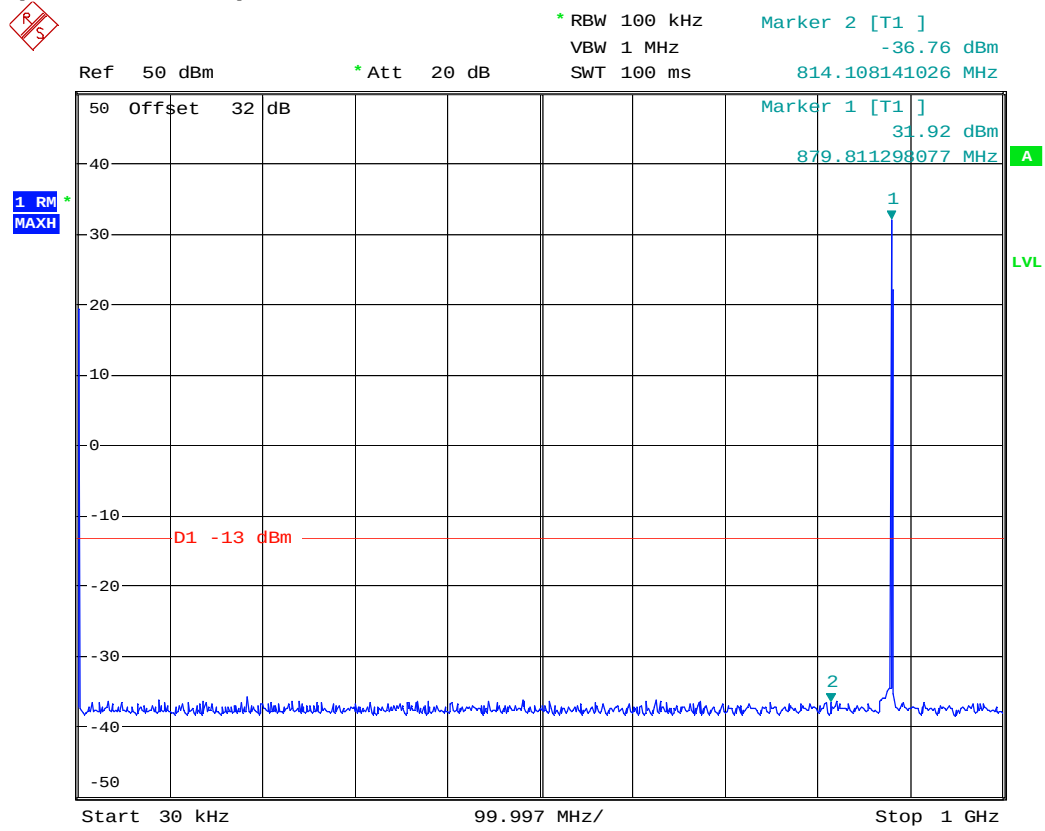


AB

Date: 19.JUN.2008 19:29:03



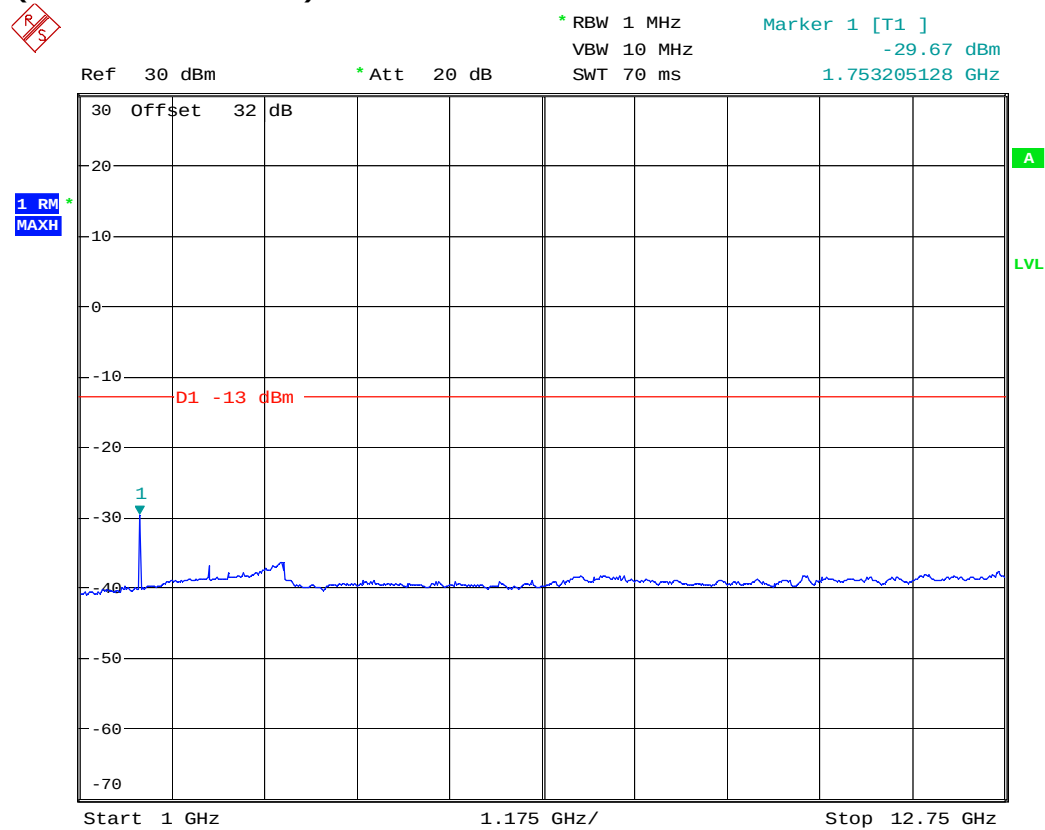
(30M ~ 1G)



AB

Date: 19.JUN.2008 19:30:36

(1G ~ 12.75G)



AB

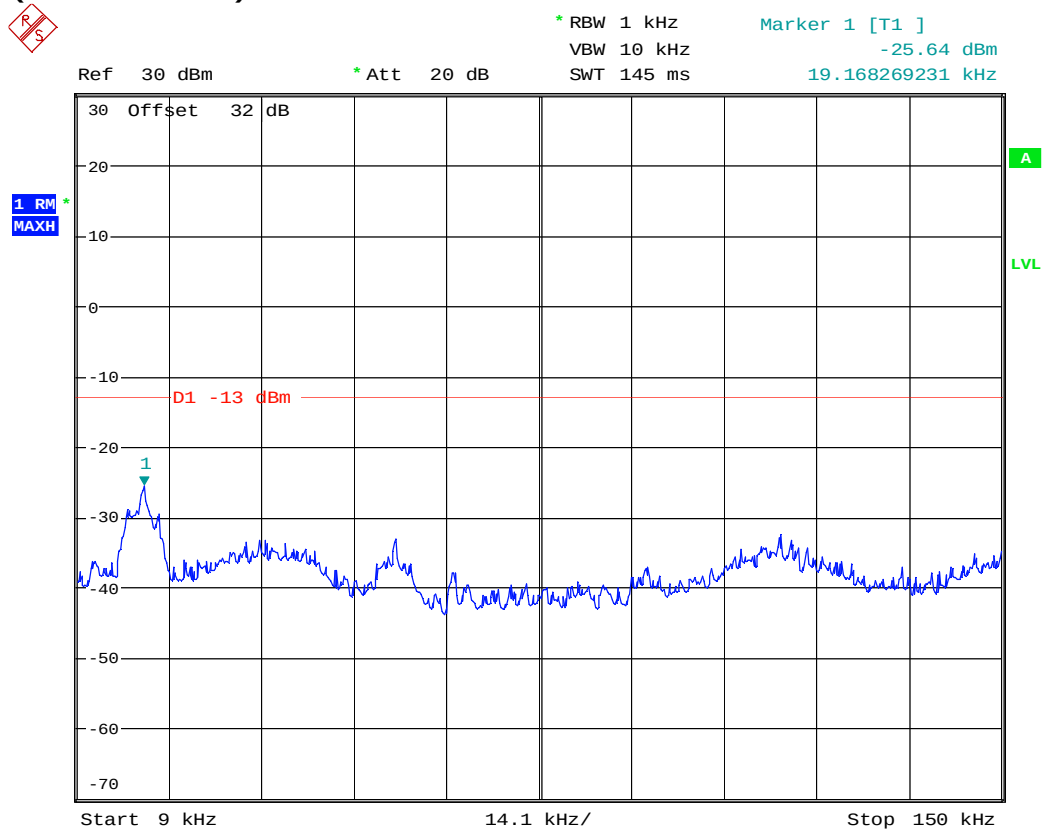
Date: 19.JUN.2008 19:31:27



B. Multiple Carriers:

Channel Number: 1/42/83/124

(9k ~ 150k)

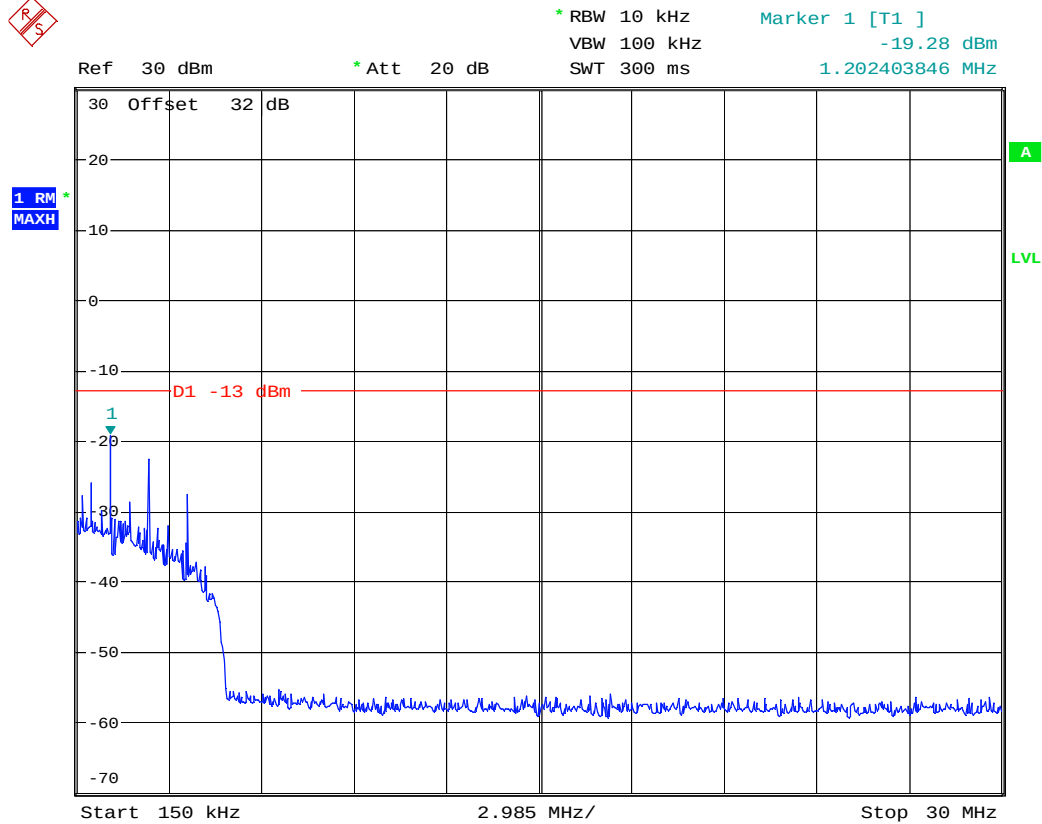


AB

Date: 19.JUN.2008 19:51:39



(150k ~ 30M)

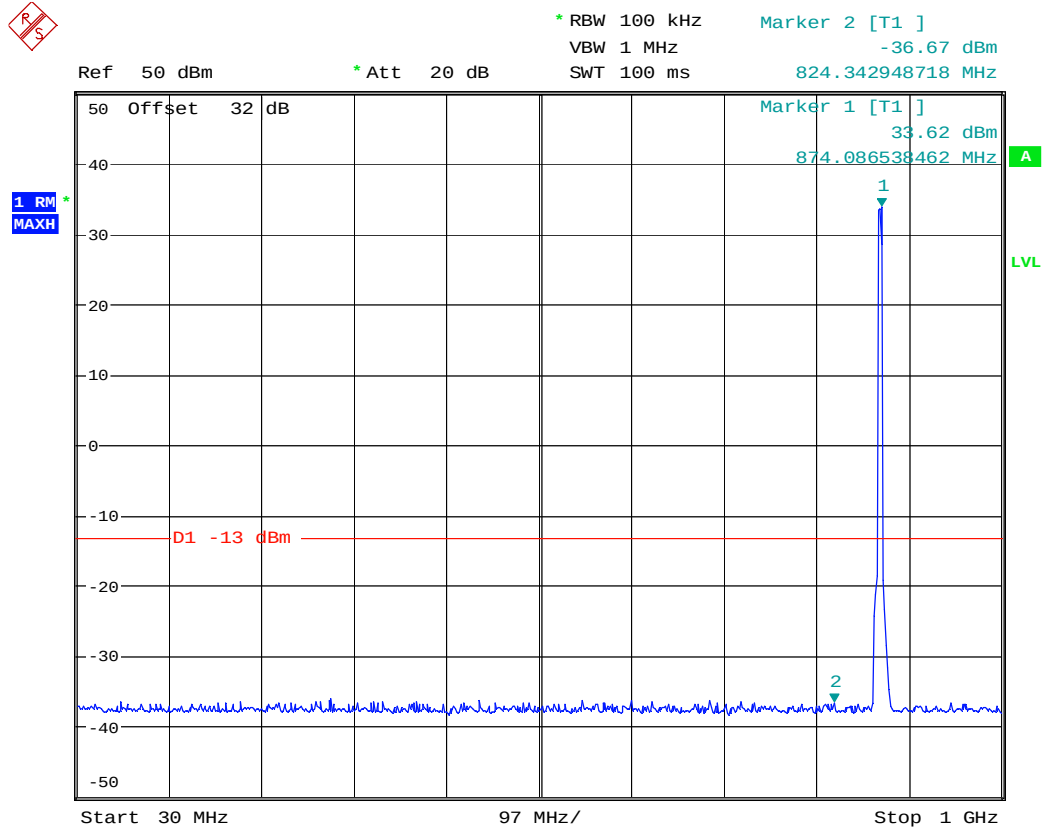


AB

Date: 19.JUN.2008 19:50:53



(30M ~ 1G)

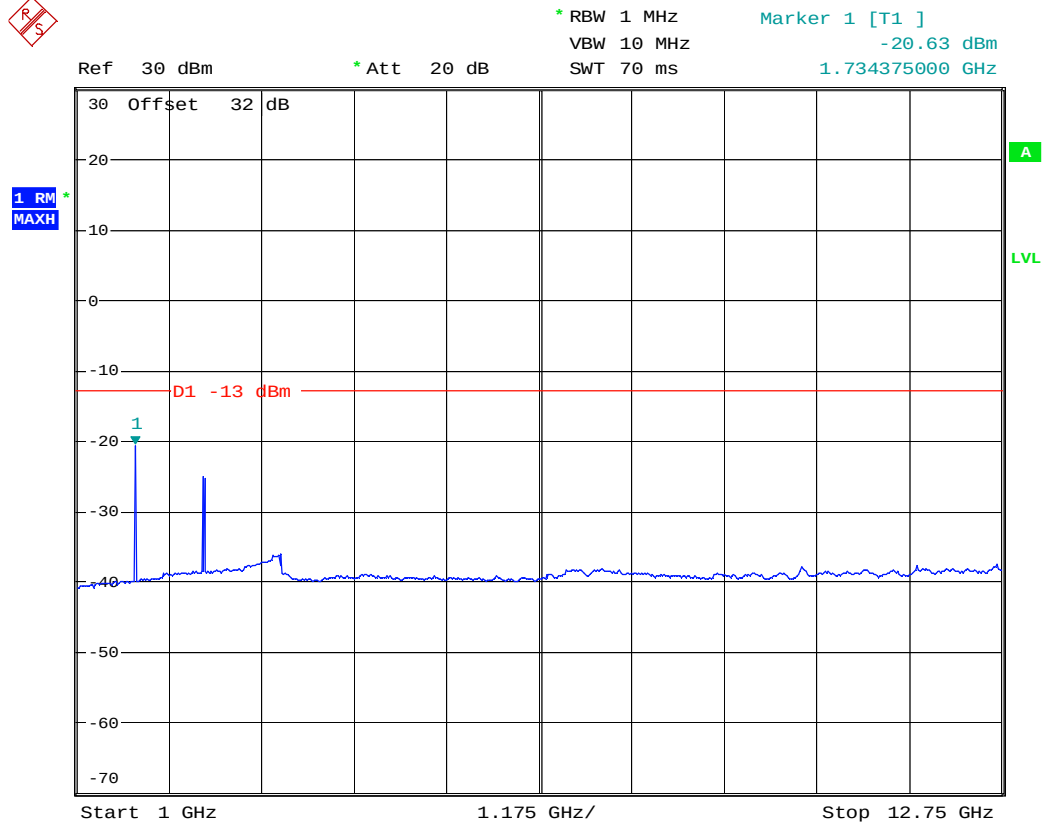


AB

Date: 19.JUN.2008 19:49:41



(1G ~ 12.75G)



AB

Date: 19.JUN.2008 19:46:52



Channel Number: 119/160/201/242 (9k ~ 150k)

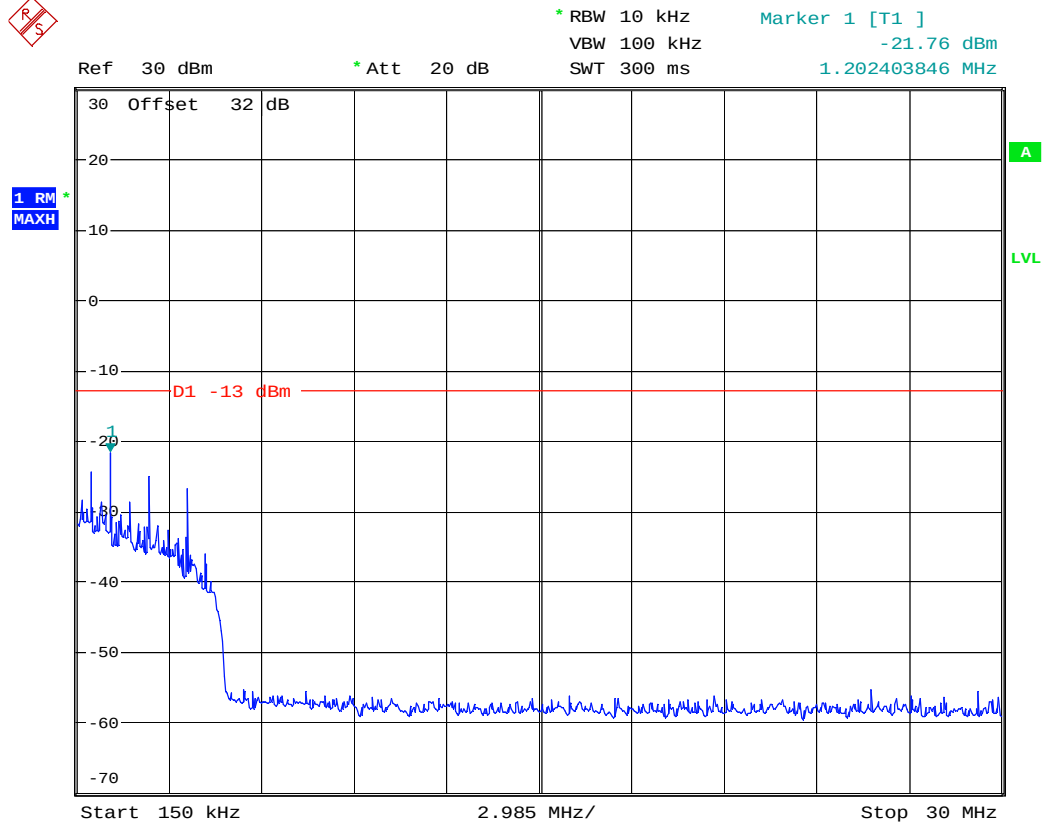


AB

Date: 19.JUN.2008 19:39:37



(150k ~ 30M)

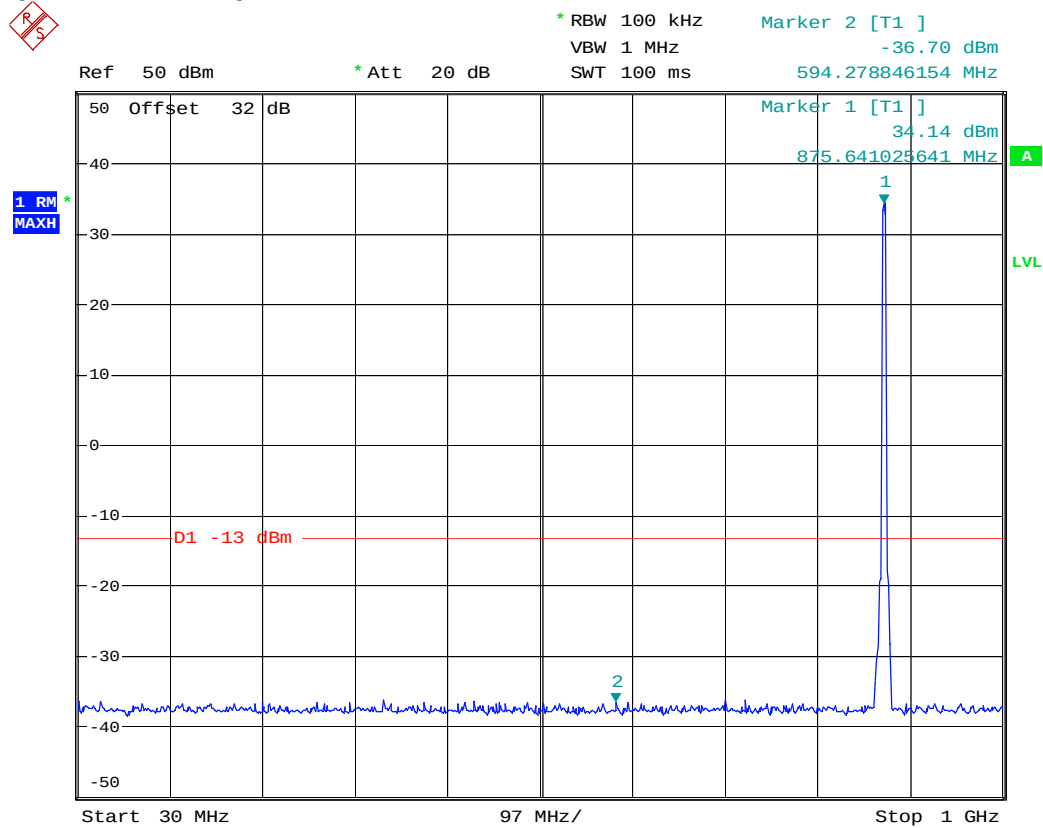


AB

Date: 19.JUN.2008 19:40:19



(30M ~ 1G)

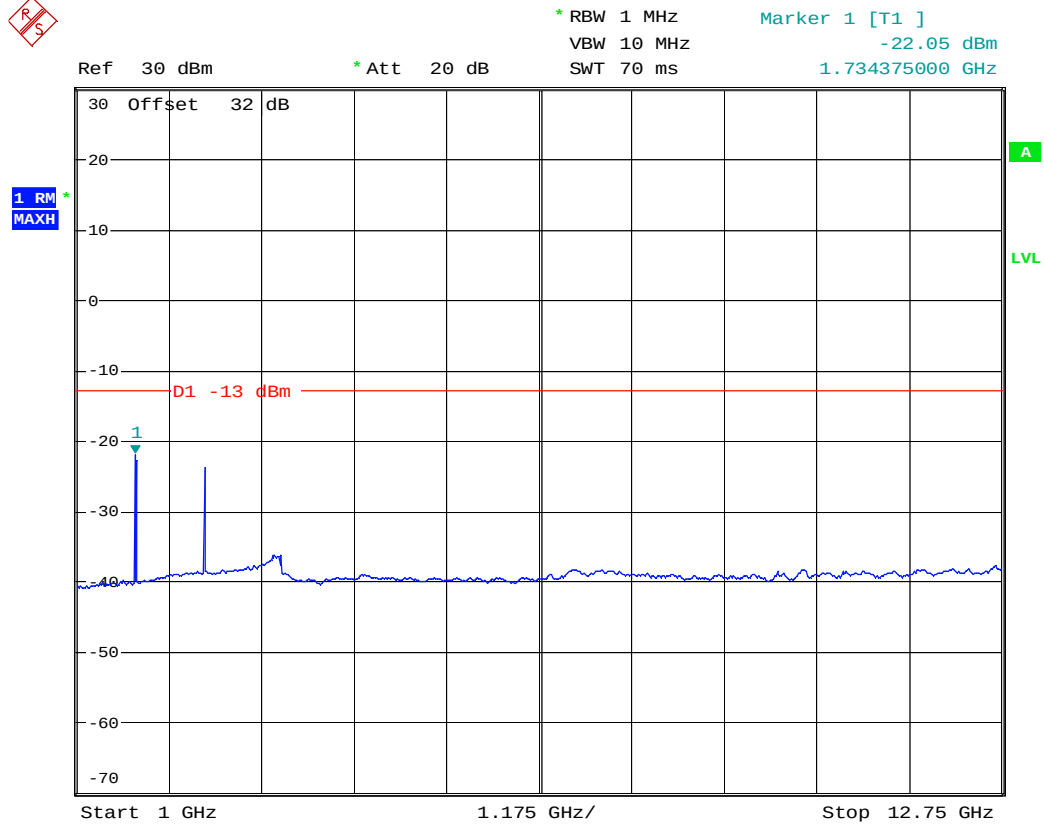


AB

Date: 19.JUN.2008 19:41:24



(1G ~ 12.75G)

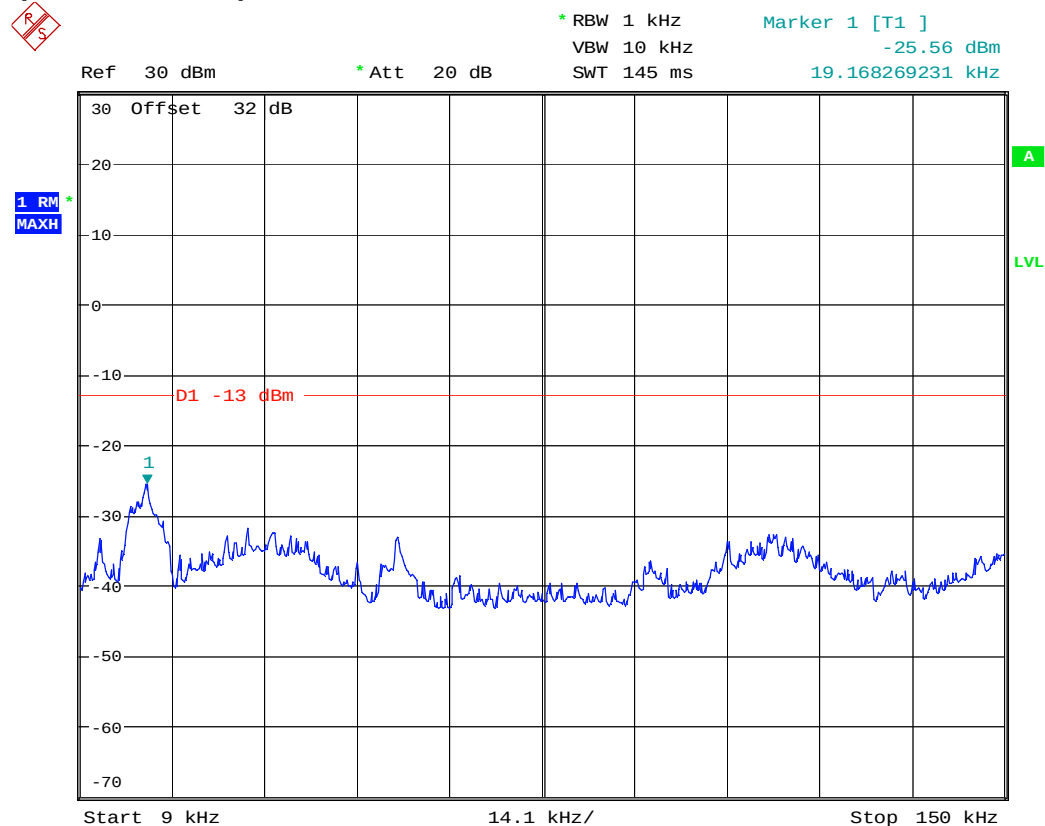


AB

Date: 19.JUN.2008 19:42:21



Channel Number: 188/229/270/311 (9k ~ 150k)

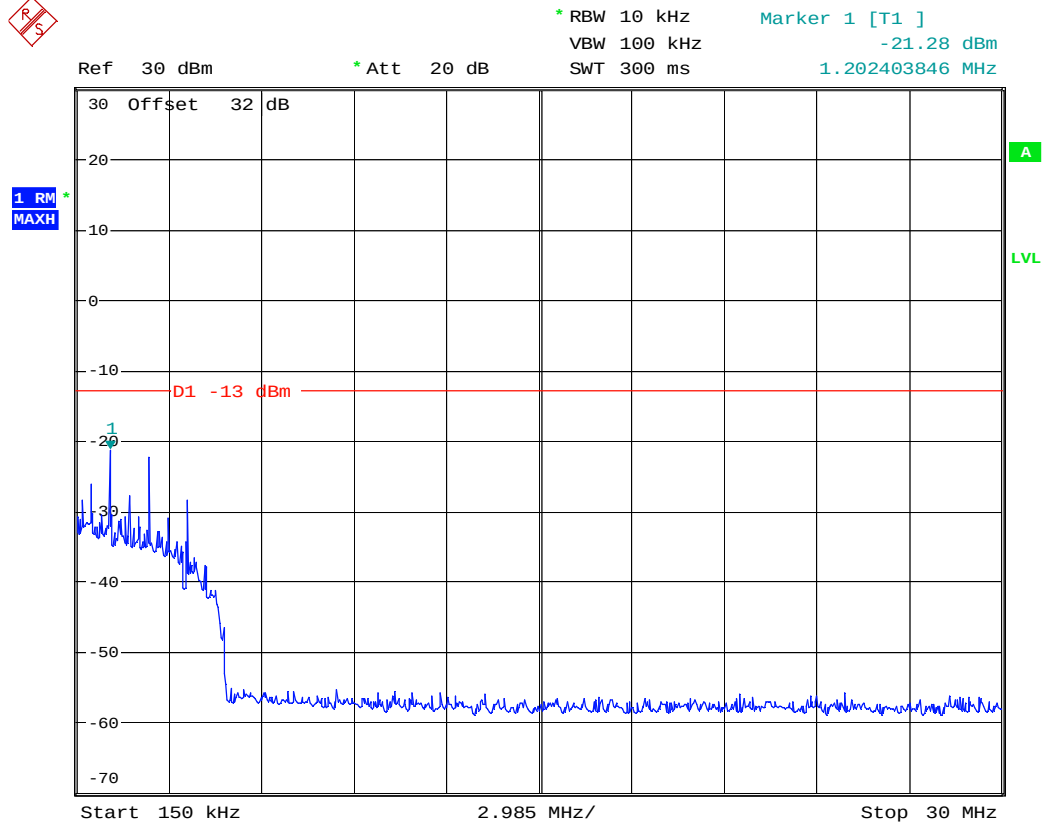


AB

Date: 19.JUN.2008 19:38:00



(150k ~ 30M)

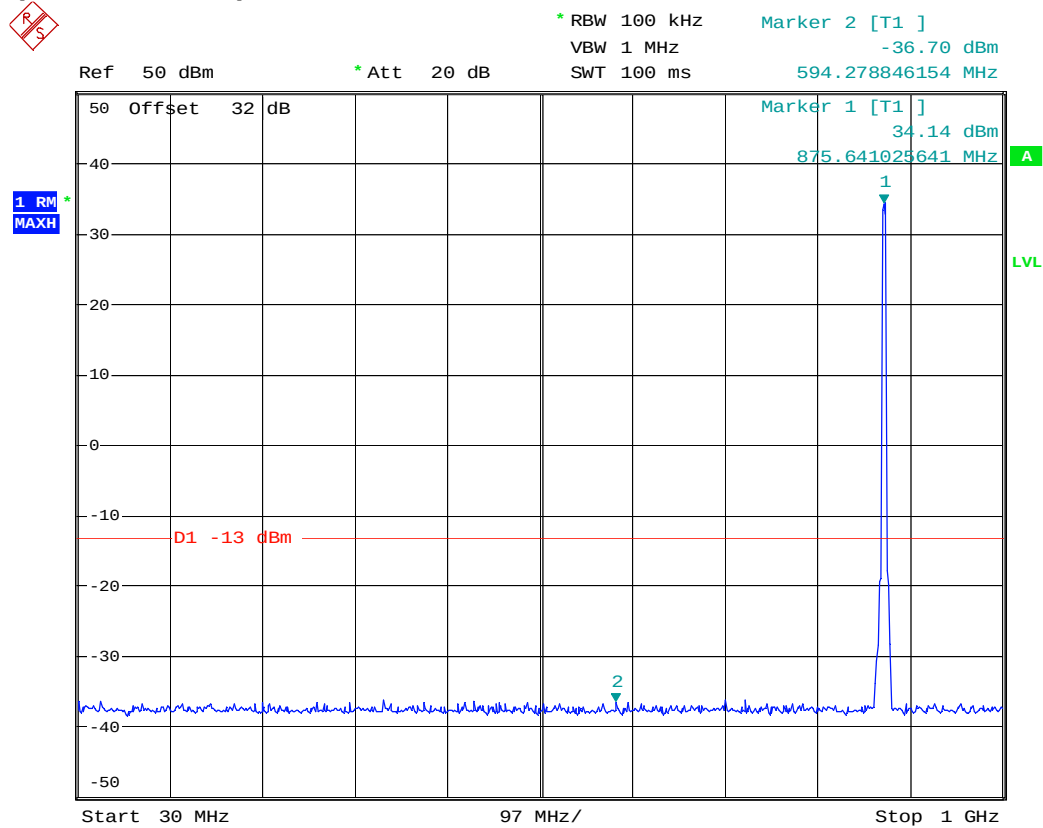


AB

Date: 19.JUN.2008 19:37:15



(30M ~ 1G)

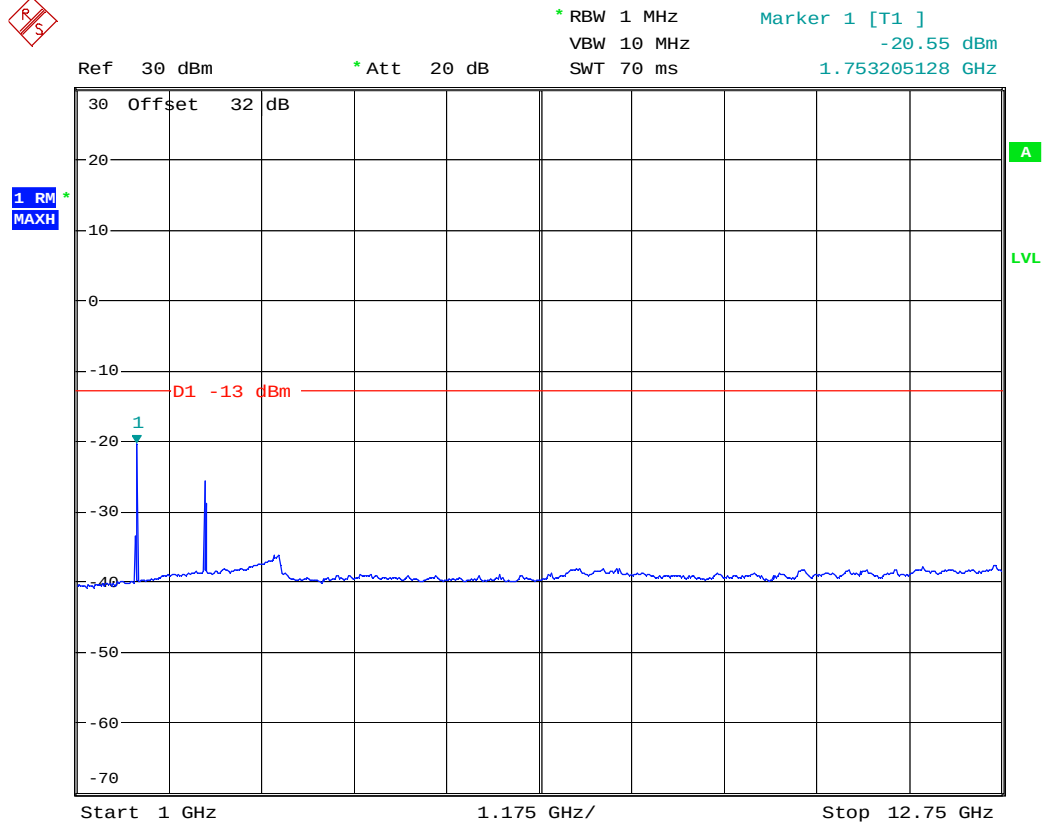


AB

Date: 19.JUN.2008 19:41:24



(1G ~ 12.75G)



AB

Date: 19.JUN.2008 19:34:37

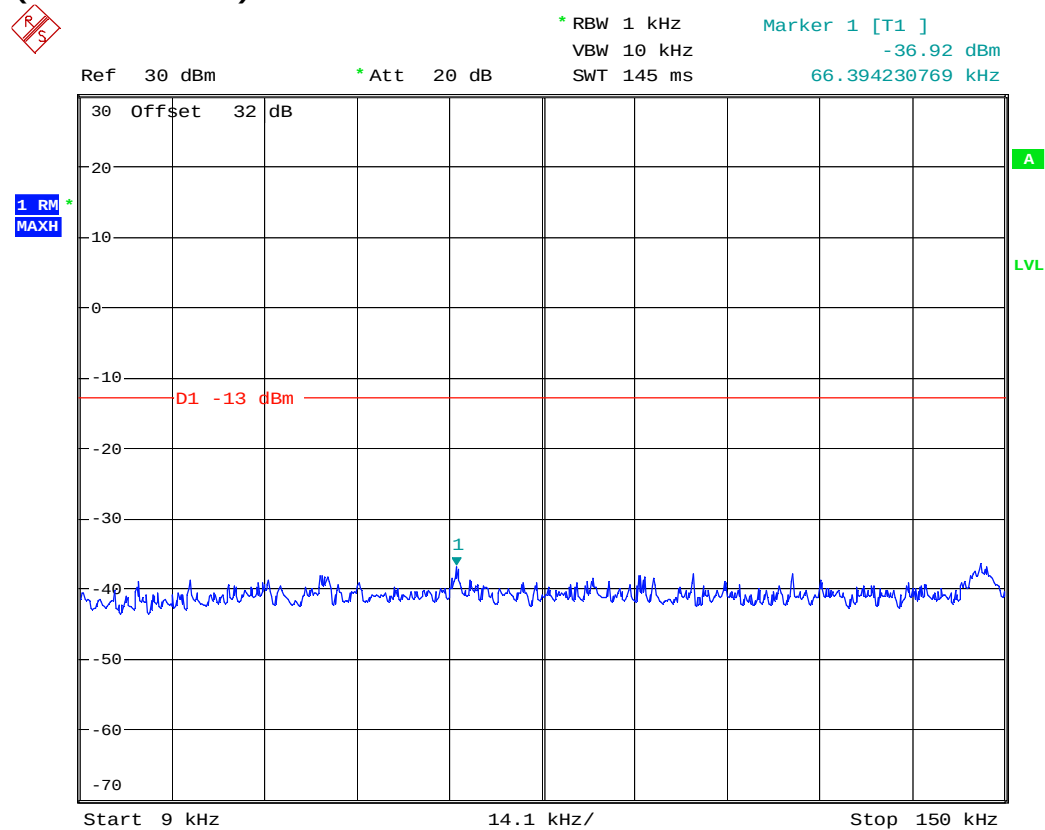


CDMA2000 1X EV-DO

A. Single Carrier

Channel Number: 1

(9k ~ 150k)

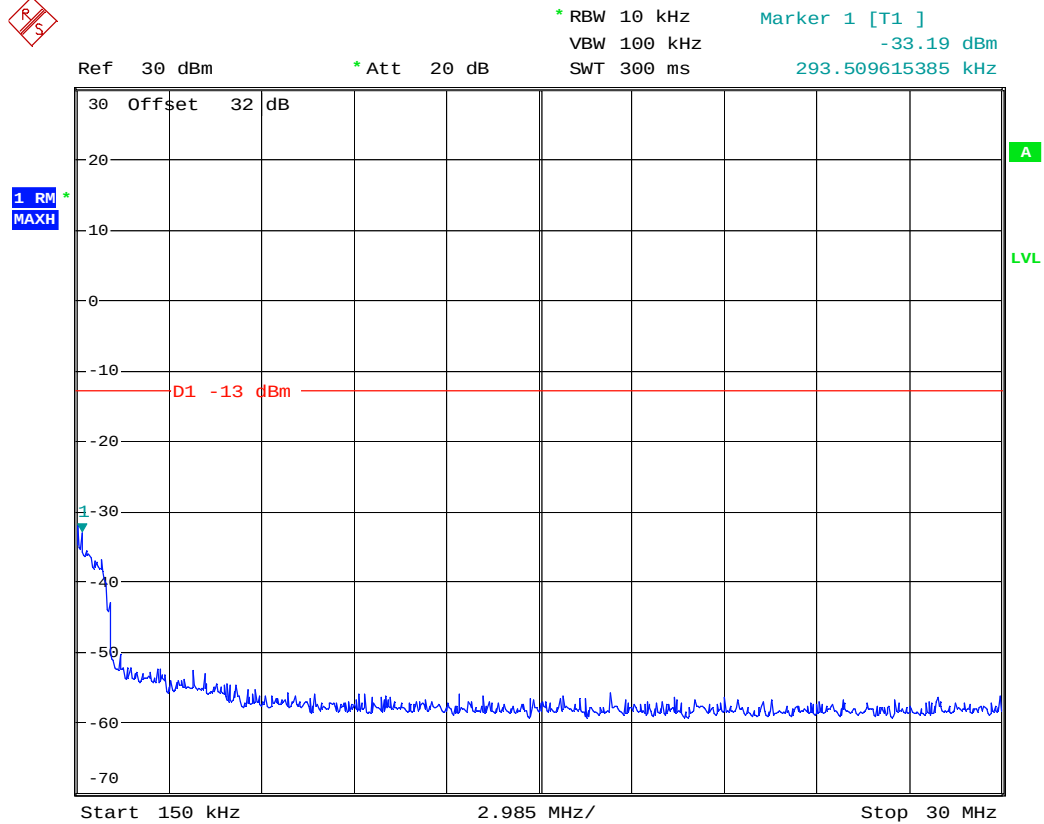


AB

Date: 20.JUN.2008 08:53:20



(150k ~ 30M)

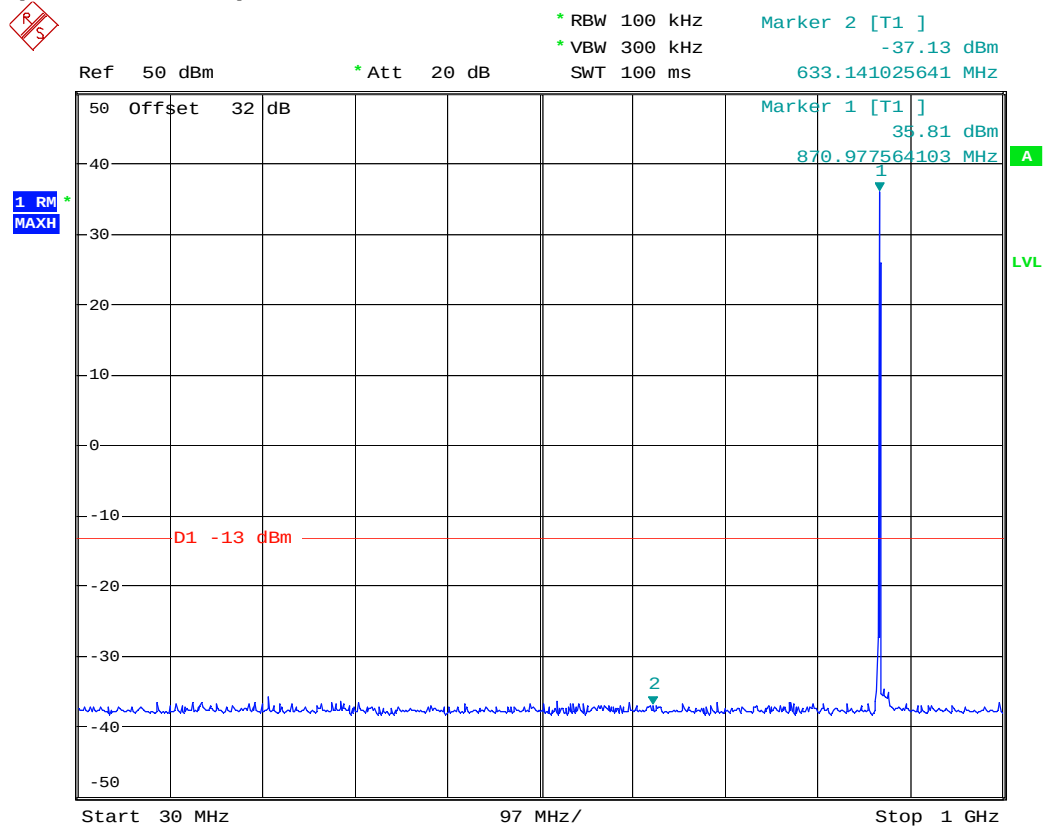


AB

Date: 20.JUN.2008 08:54:01



(30M ~ 1G)

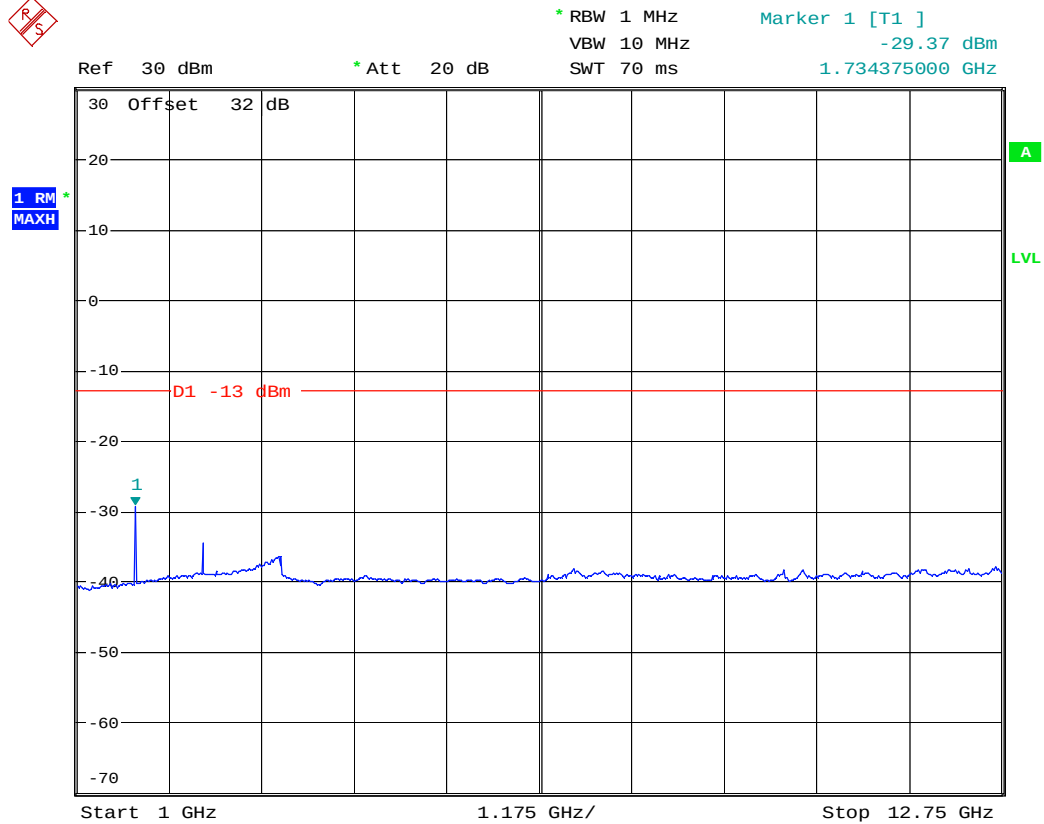


AB

Date: 20.JUN.2008 08:55:44



(1G ~ 12.75G)



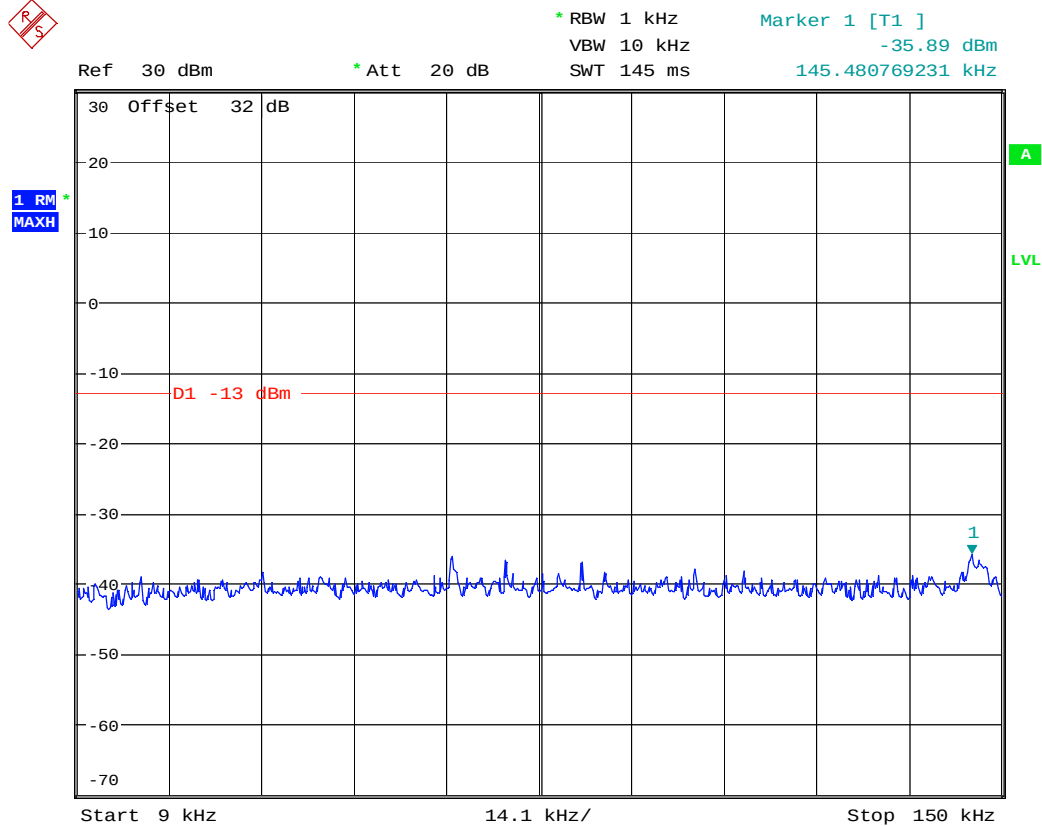
AB

Date: 20.JUN.2008 08:56:42



Channel Number: 160

(9k ~ 150k)

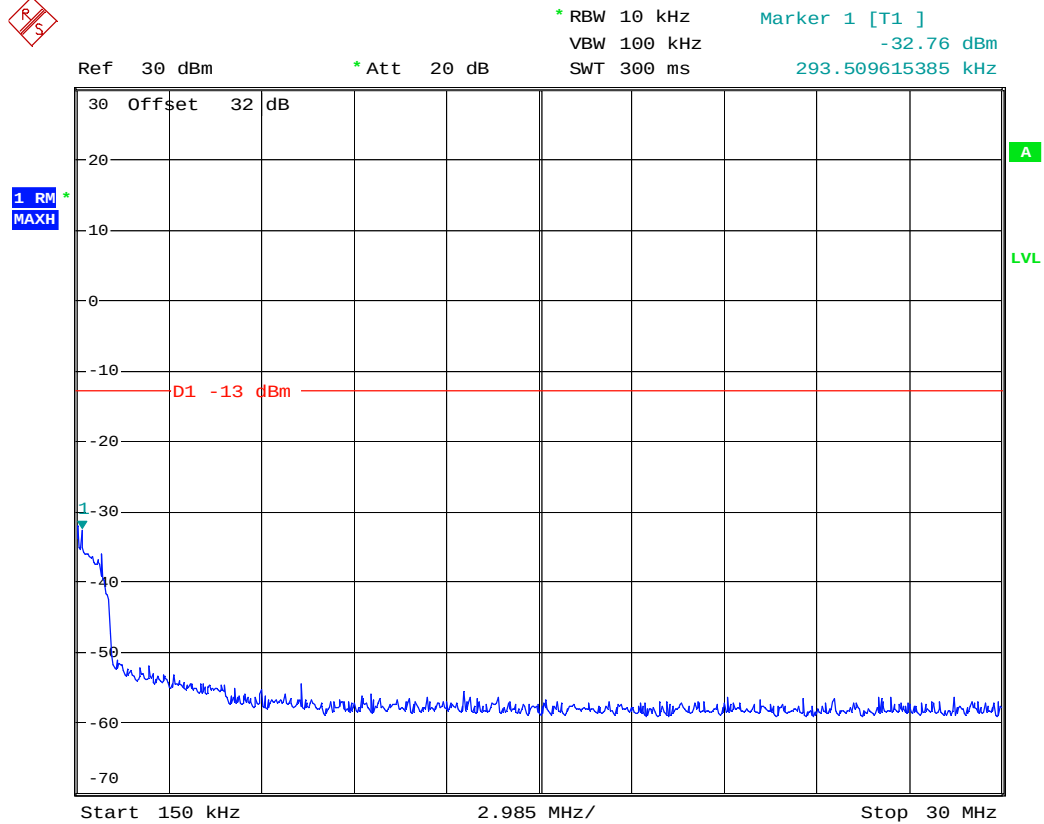


AB

Date: 20.JUN.2008 08:52:16



(150k ~ 30M)

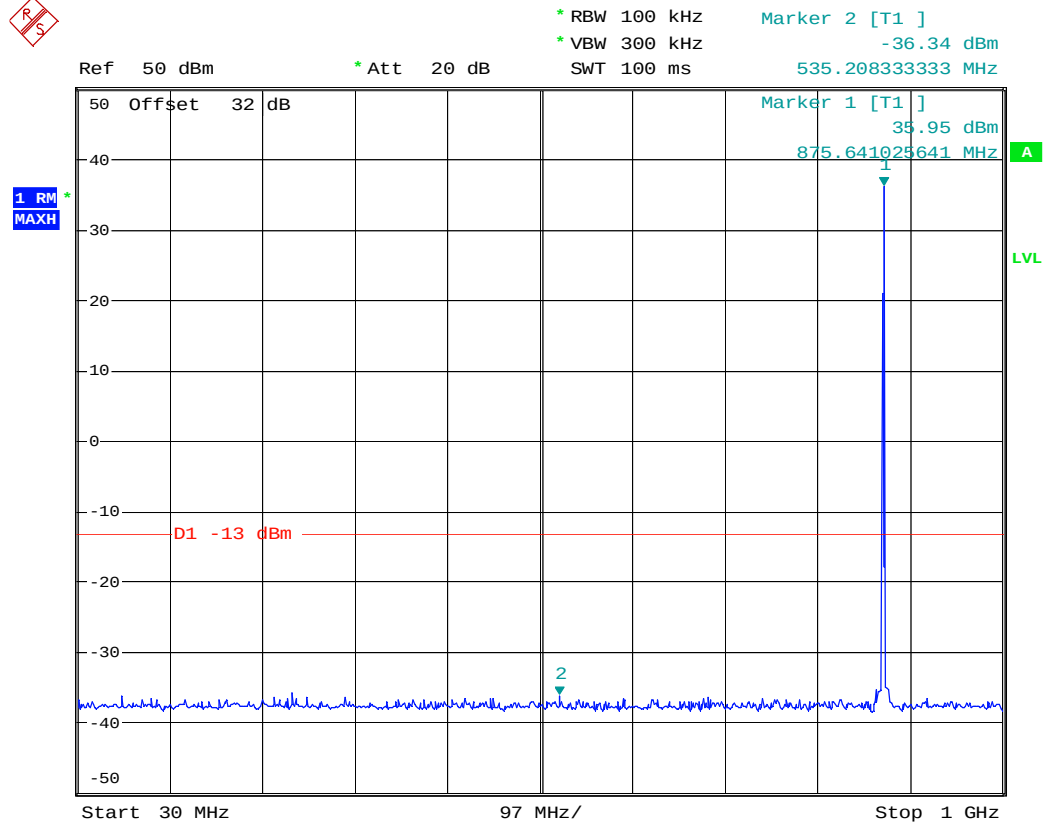


AB

Date: 20.JUN.2008 08:47:34



(30M ~ 1G)

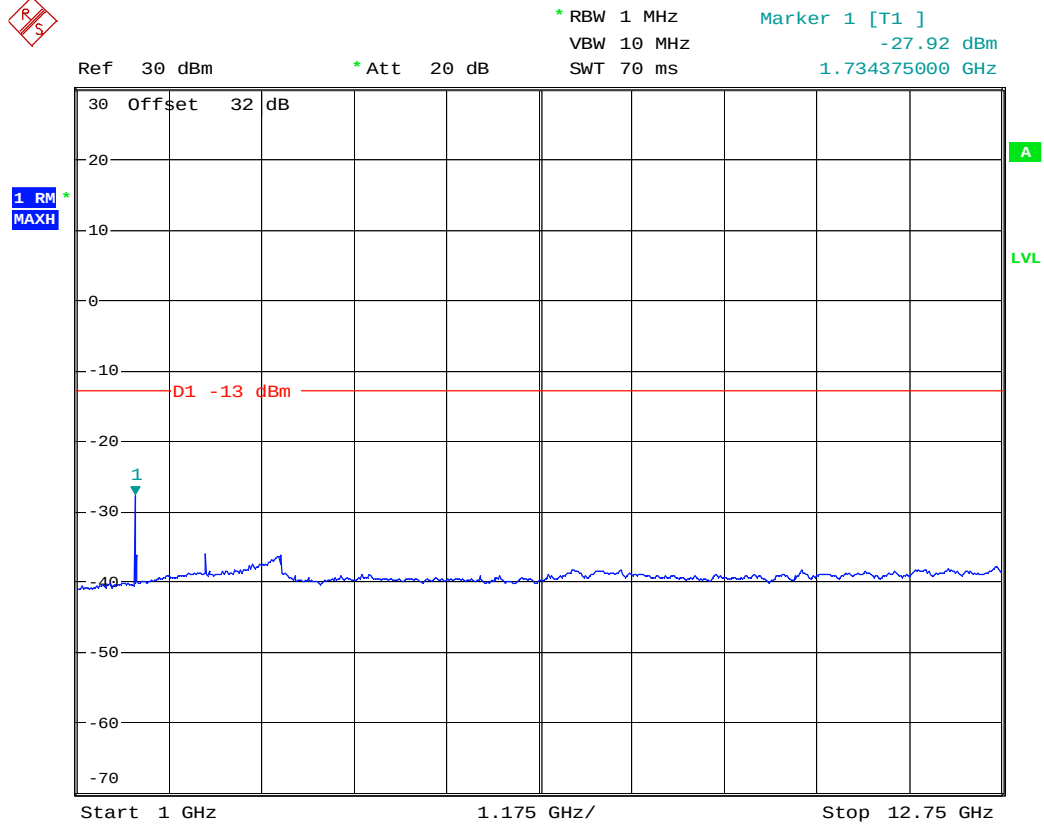


AB

Date: 20.JUN.2008 08:45:26



(1G ~12.75G)



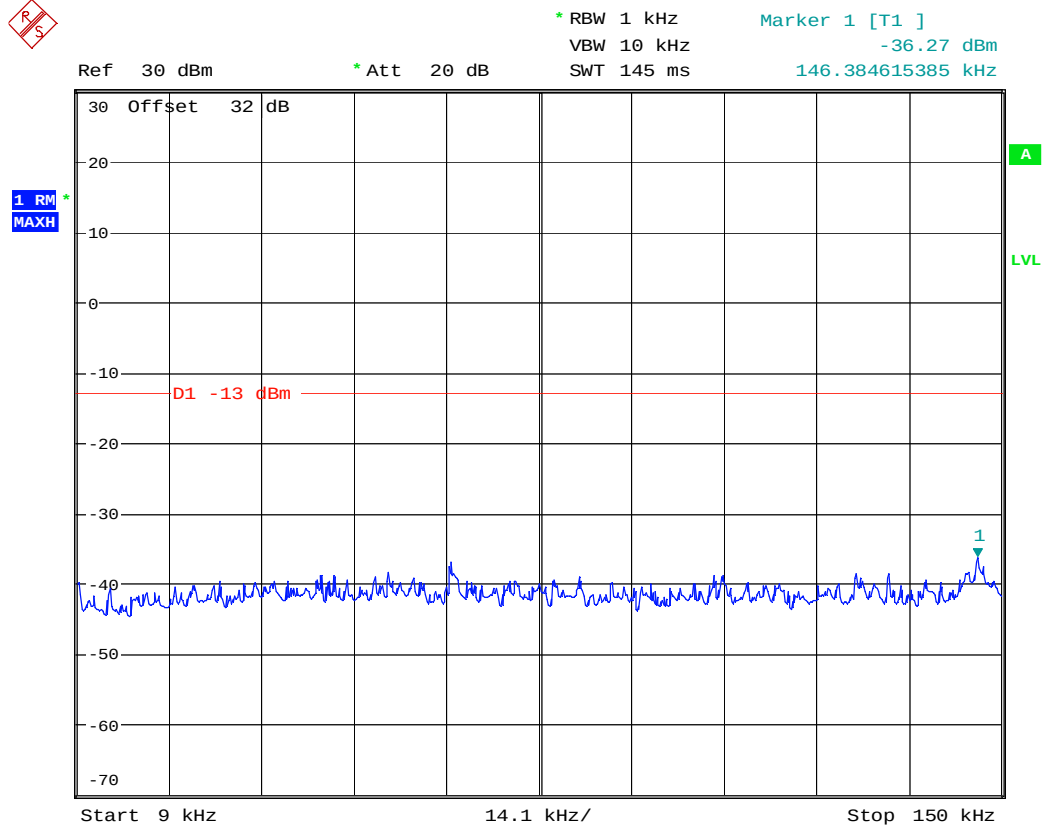
AB

Date: 20.JUN.2008 08:46:38



Channel Number: 311

(9k ~ 150k)

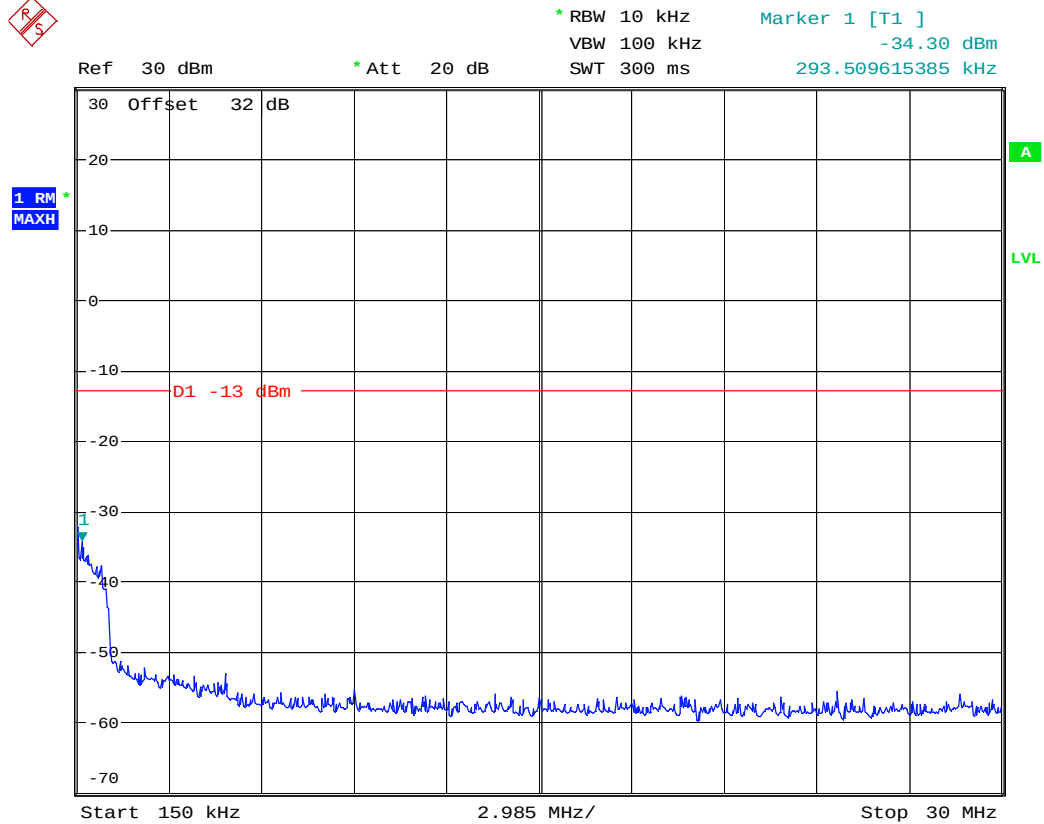


AB

Date: 20.JUN.2008 09:05:58



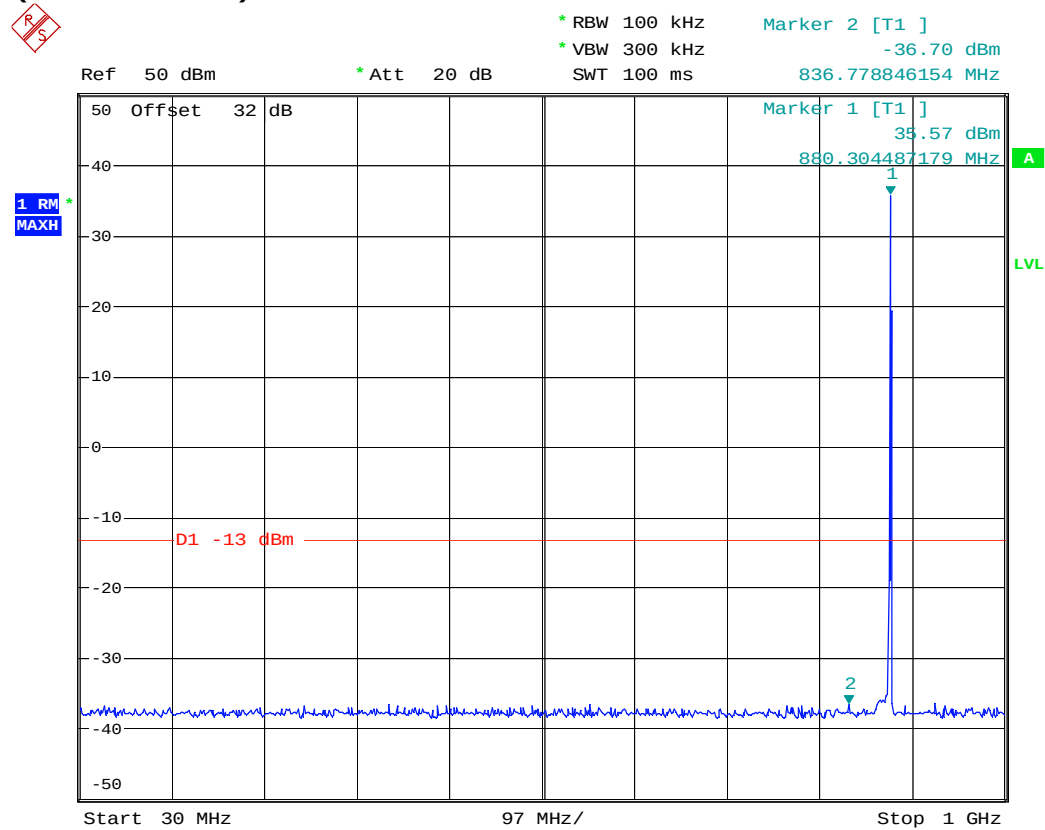
(150k ~ 30M)



AB

Date: 20.JUN.2008 09:06:38

(30M ~ 1G)

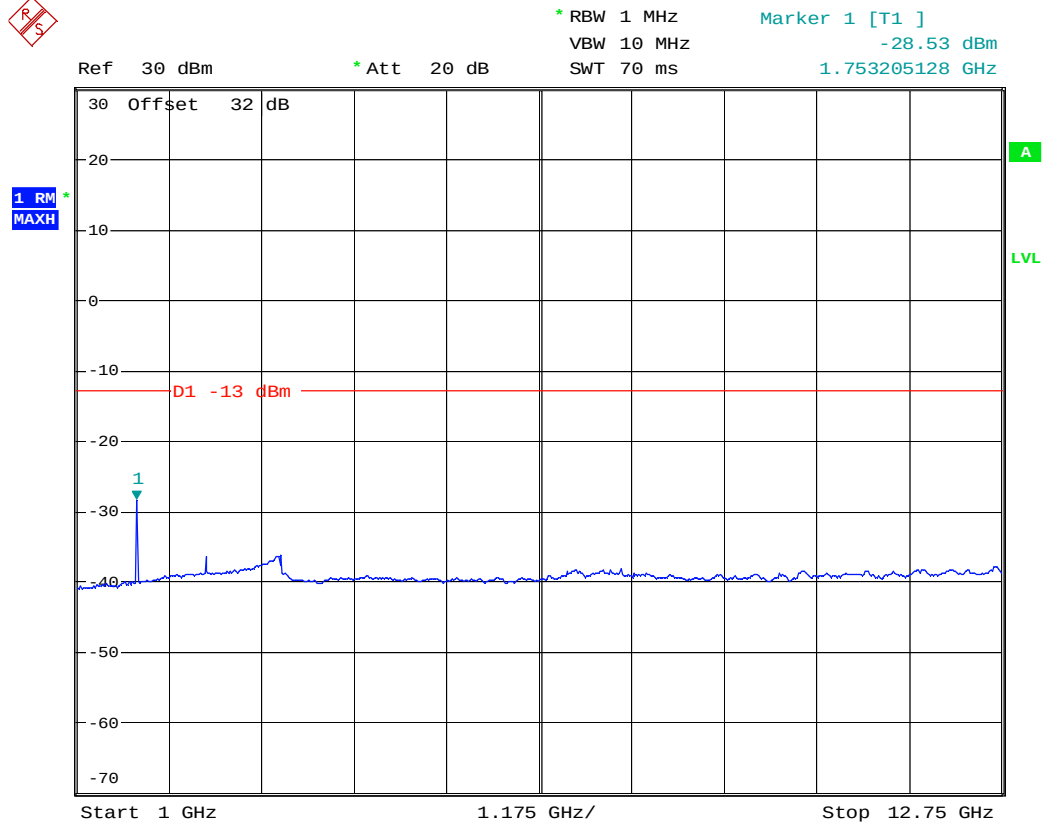


AB

Date: 20.JUN.2008 09:04:05



(1G ~ 12.75G)



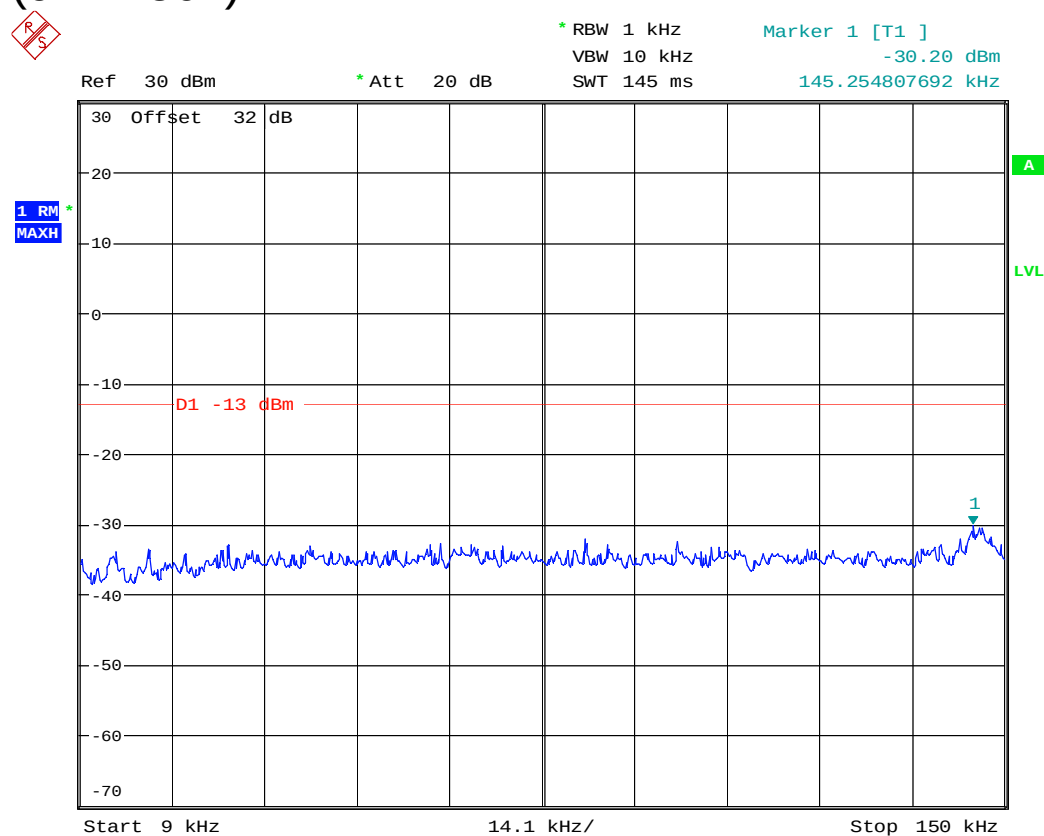
AB

Date: 20.JUN.2008 09:00:33



B. Multiple Carriers:

Channel Number: 1/42/83/124
(9k ~150k)

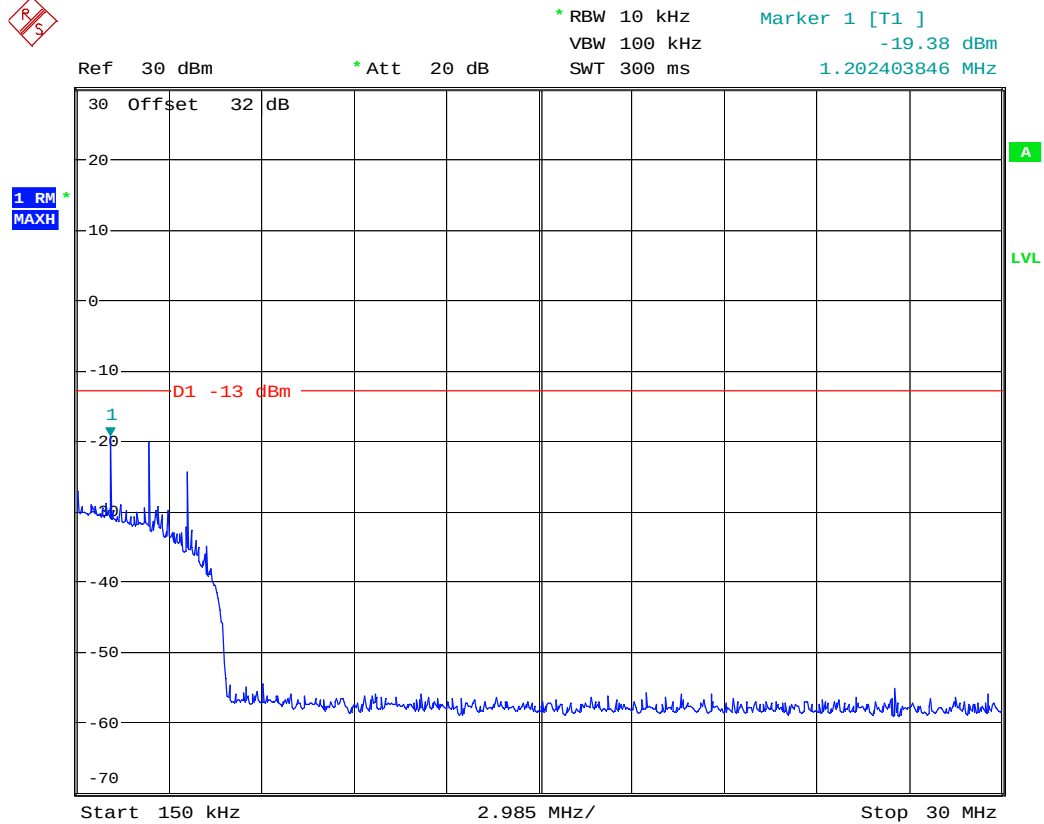


AB

Date: 20.JUN.2008 09:27:53



(150k ~ 30M)

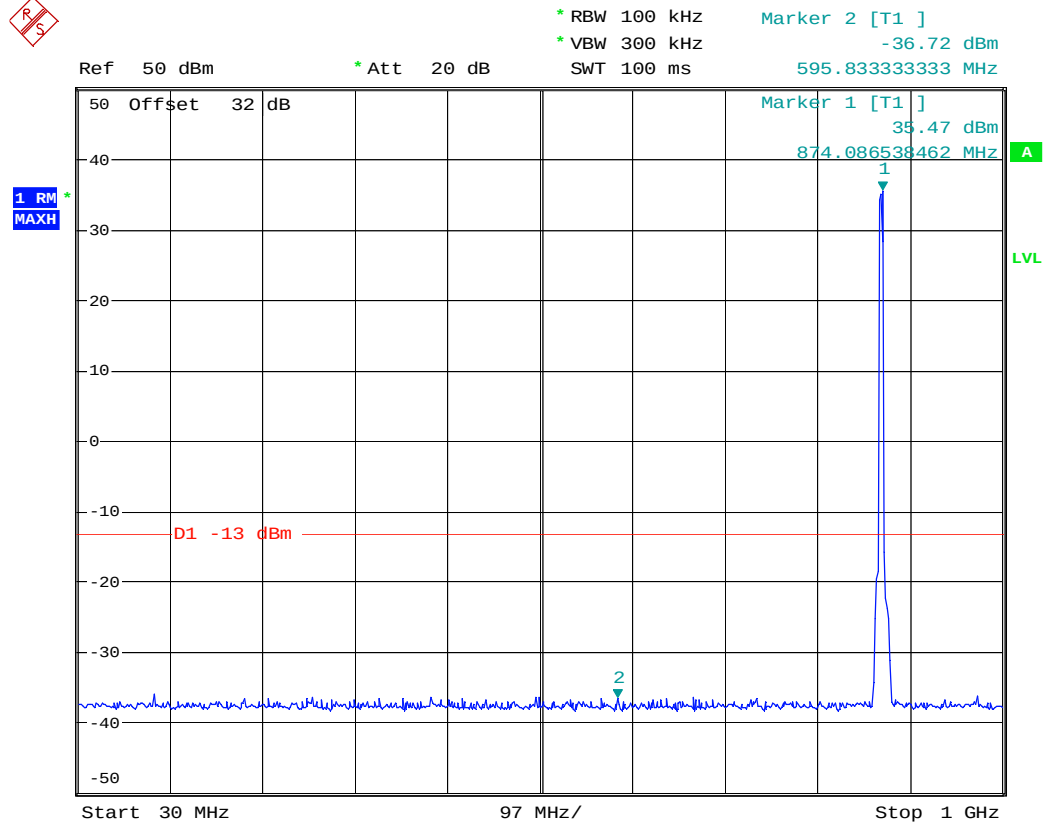


AB

Date: 20.JUN.2008 09:28:49



(30M ~ 1G)

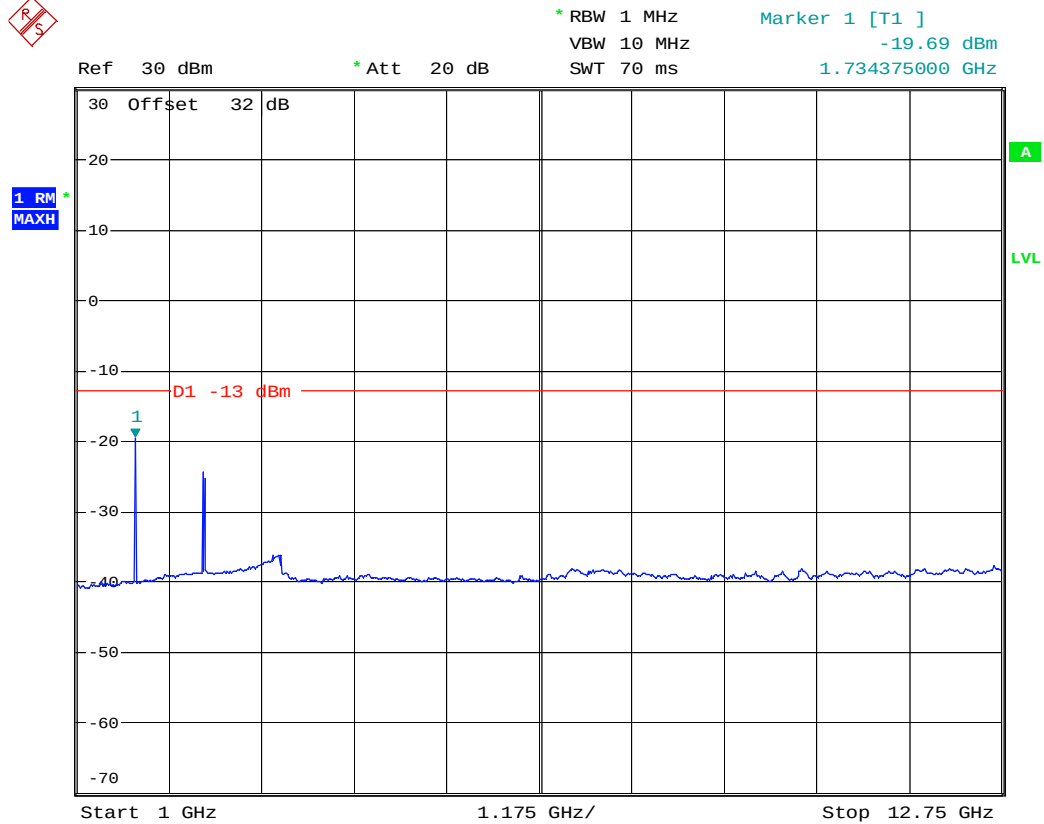


AB

Date: 20.JUN.2008 09:31:26



(1G ~ 26G)



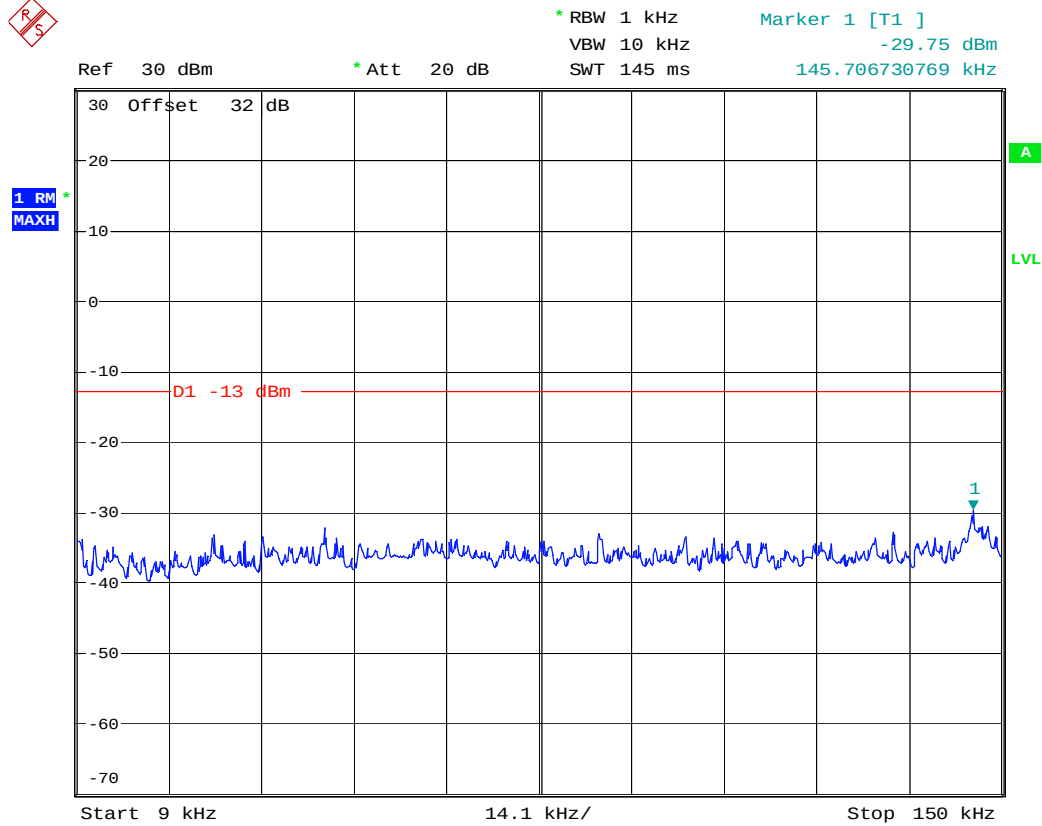
AB

Date: 20.JUN.2008 09:29:55



Channel Number: 119/160/201/242

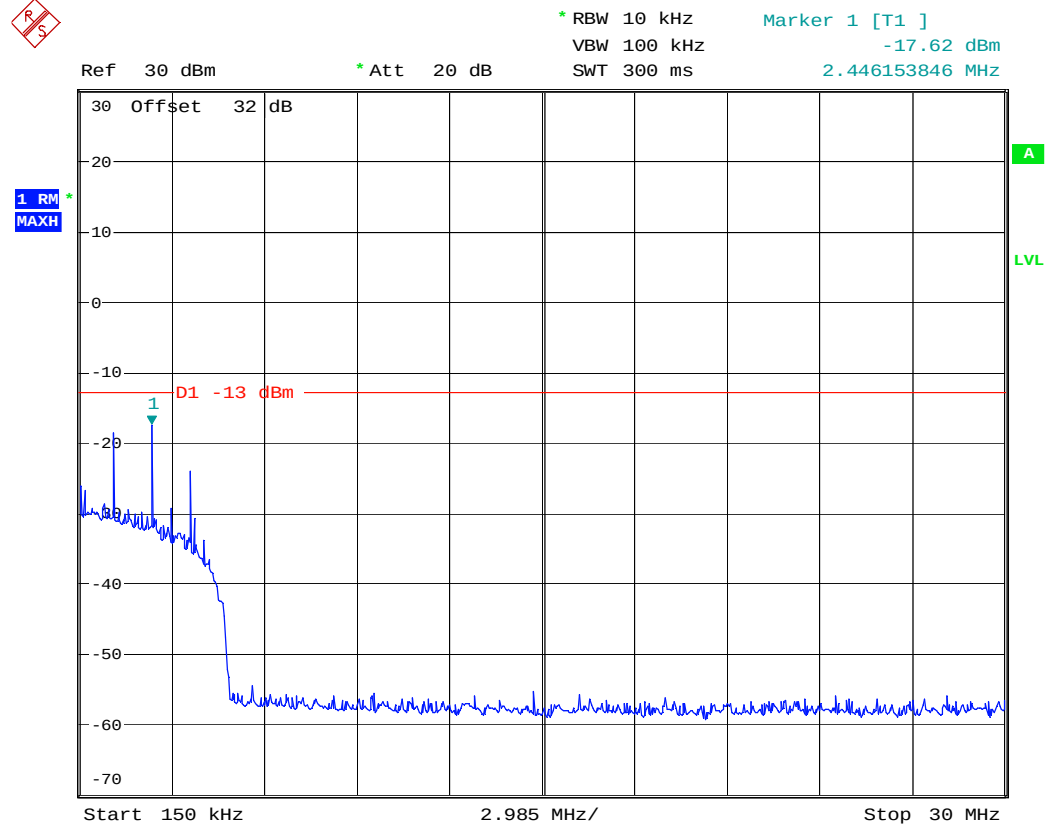
(9k ~ 150k)



AB

Date: 20.JUN.2008 09:17:08

(150k ~ 30M)

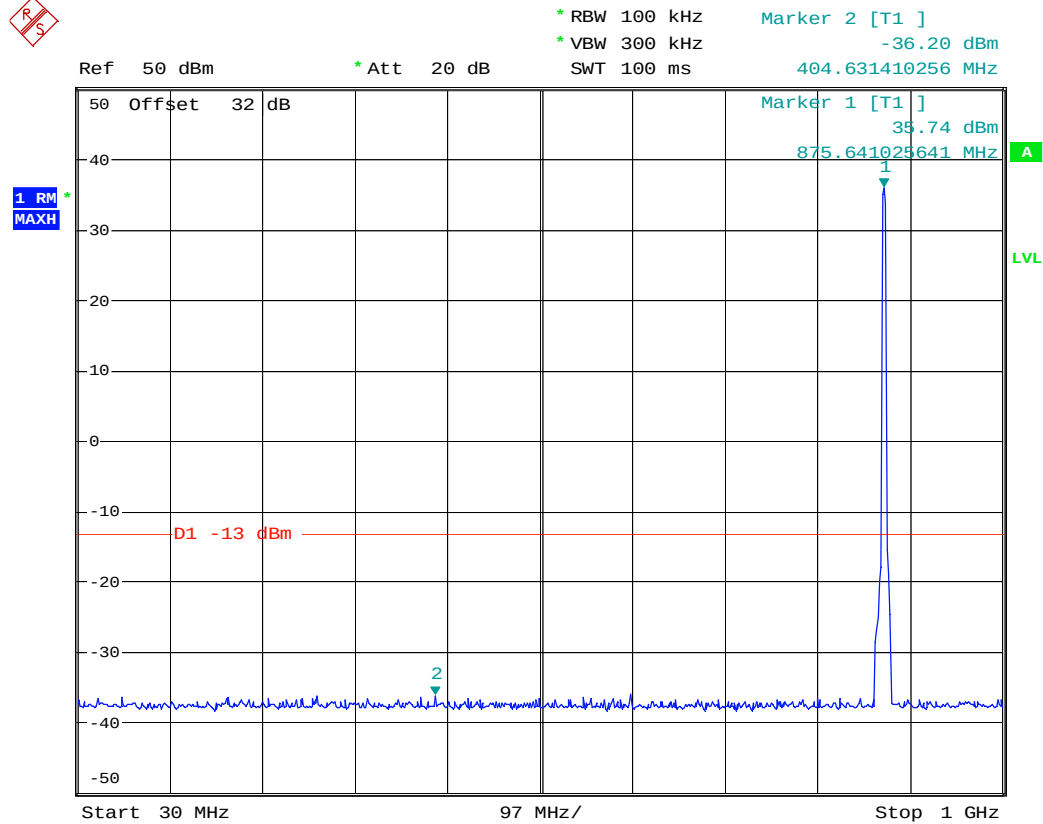


AB

Date: 20.JUN.2008 09:16:24



(30M ~ 1G)

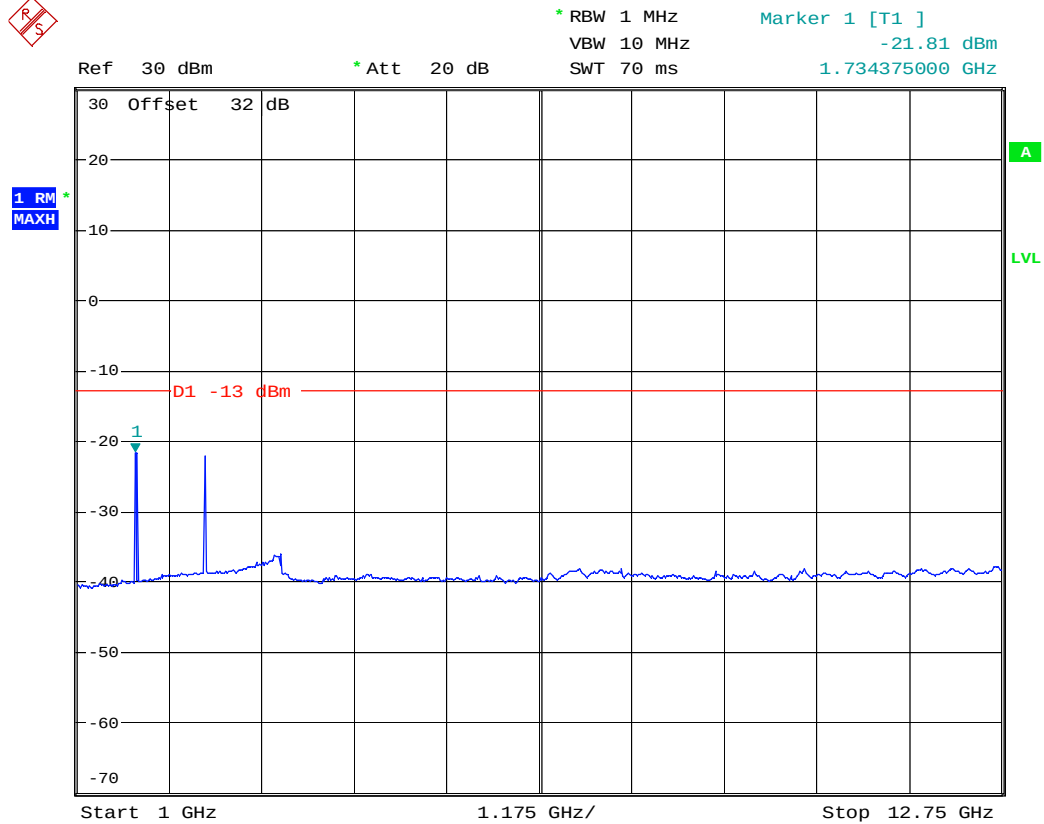


AB

Date: 20.JUN.2008 09:14:02



(1G ~ 12.75G)



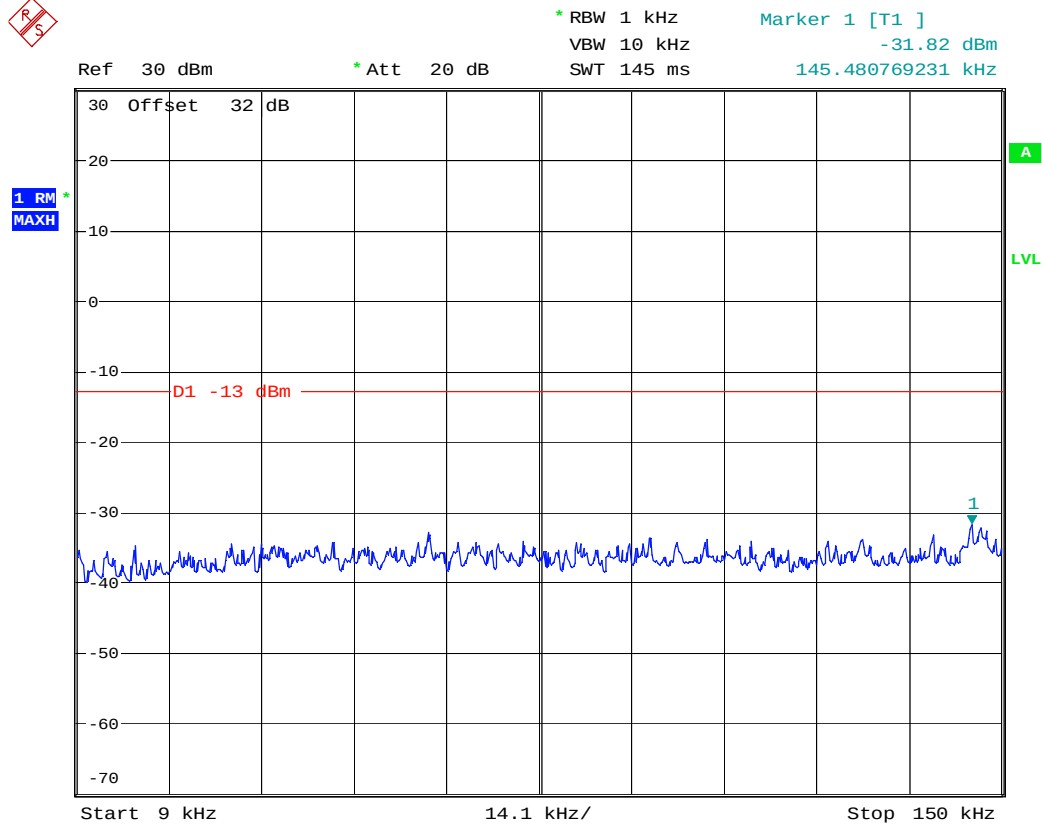
AB

Date: 20.JUN.2008 09:15:34



Channel Number: 188/229/270/311

(9k ~ 150k)

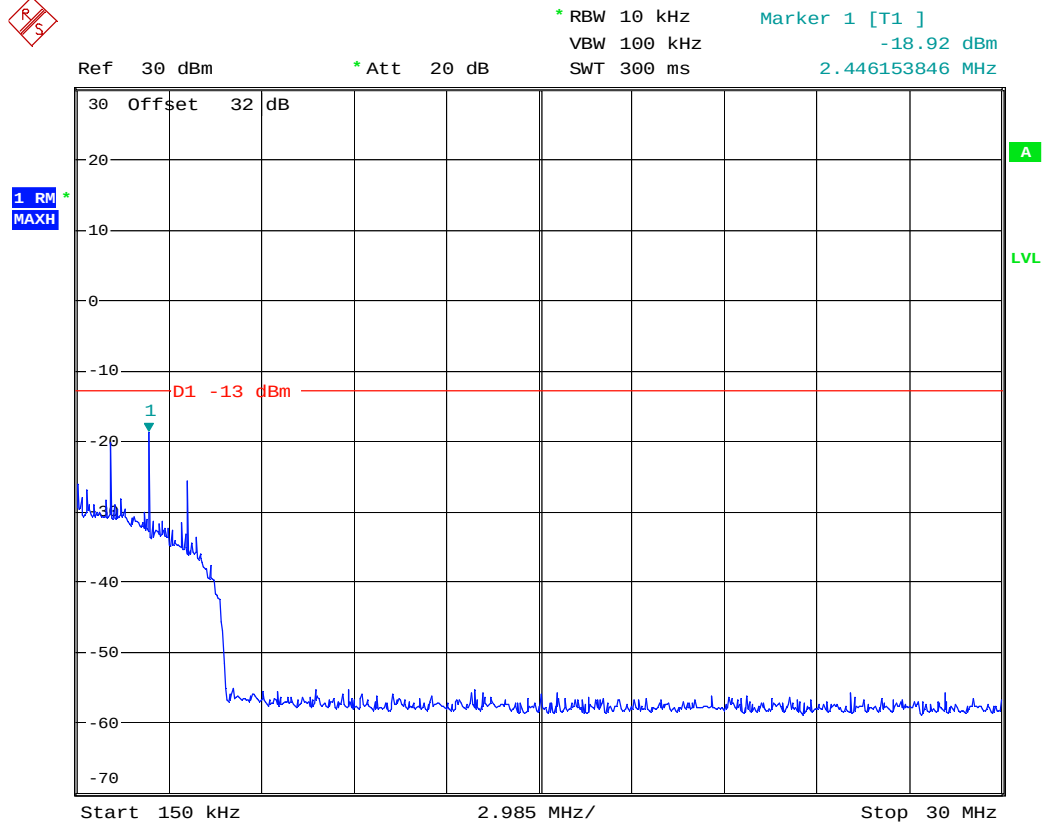


AB

Date: 20.JUN.2008 09:09:34



(150k ~ 30M)

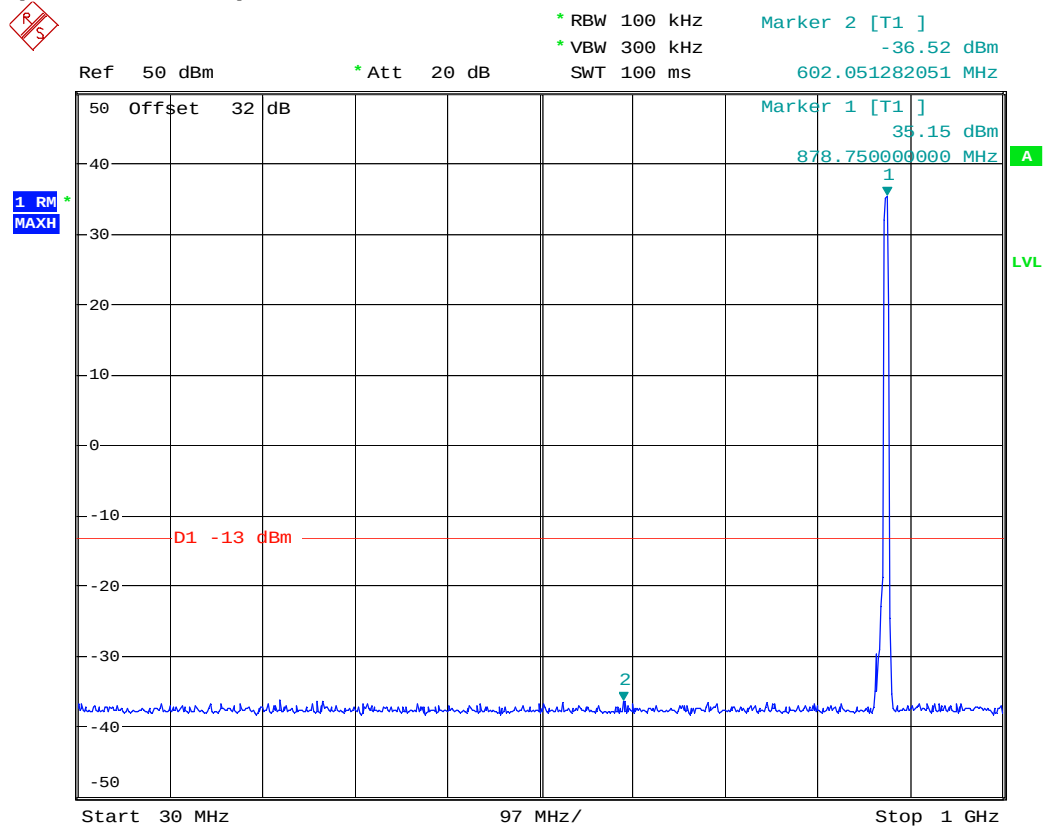


AB

Date: 20.JUN.2008 09:08:52



(30M ~ 1G)

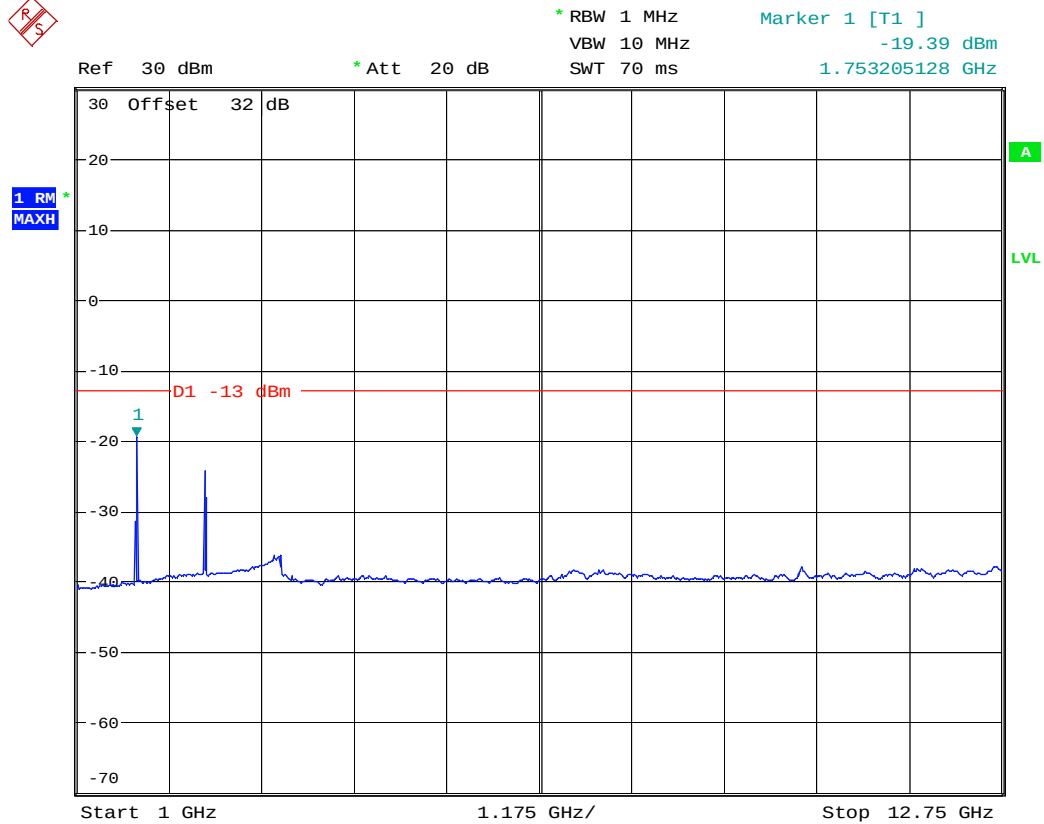


AB

Date: 20.JUN.2008 09:12:05



(1G ~ 12.75G)



AB

Date: 20.JUN.2008 09:10:31



Appendix E

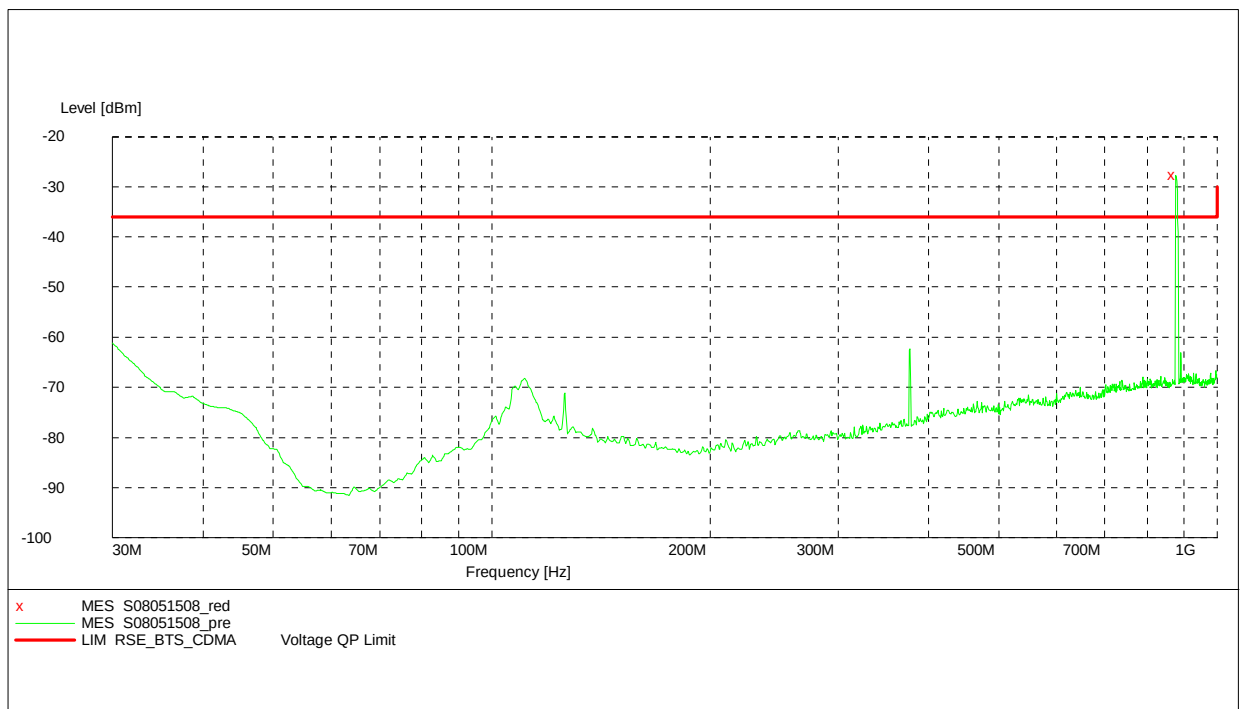
Field Strength of Spurious Radiation According to FCC Part 2.1053 & 22.917



Measurement Result

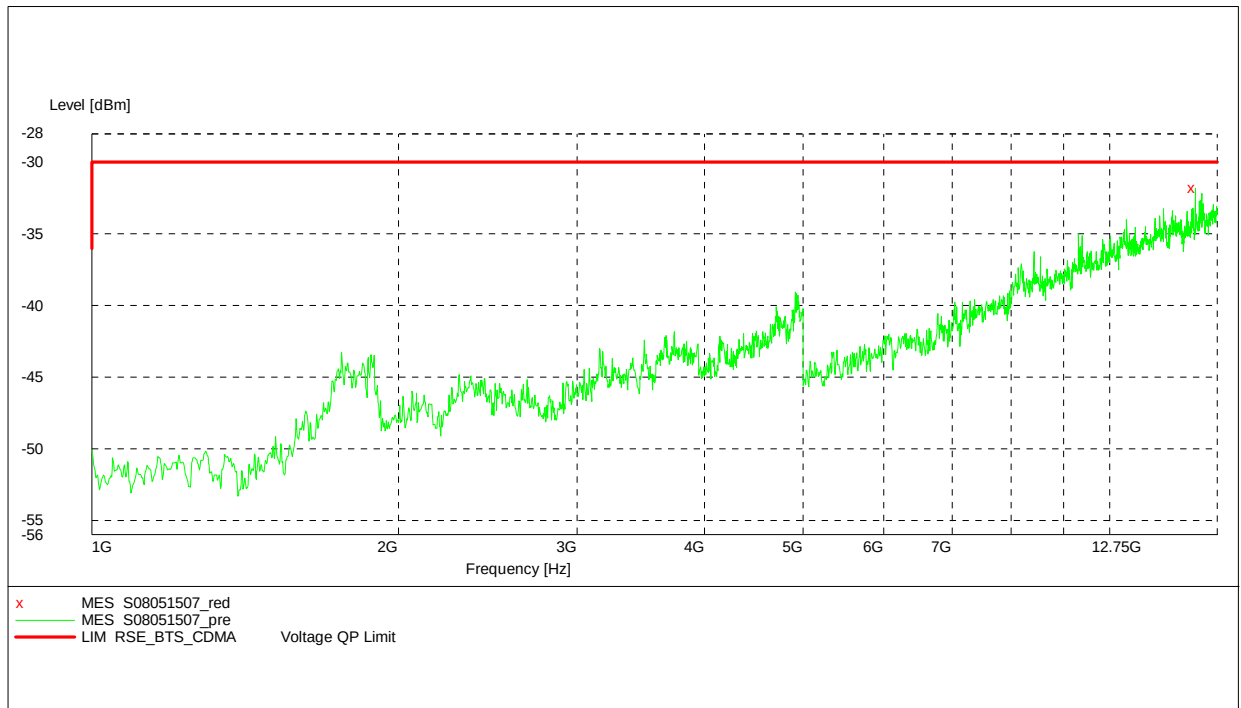
Note: more strict limit was employed by this test.

30MHz-1GHz





Above 1GHz





Appendix F

Photos of Test Setup



(Below 1GHz)





(Above 1GHz)

