



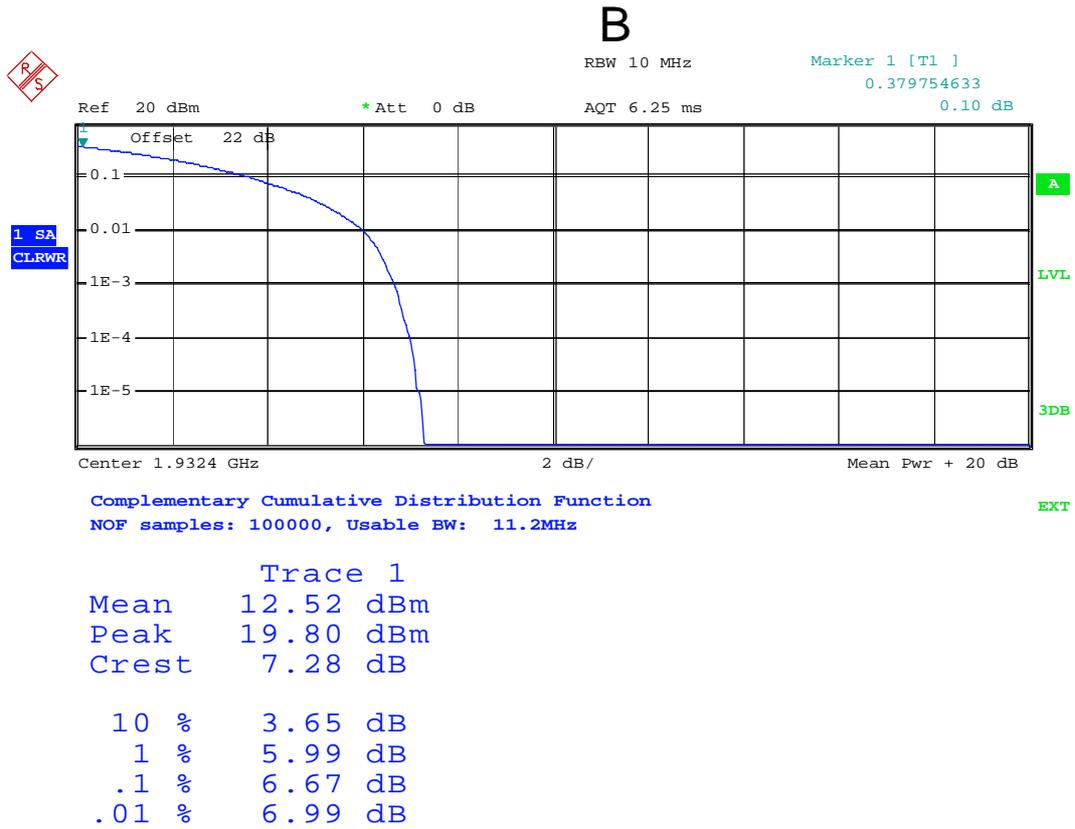
Appendix A

Peak-to-Average Ratio Measurement According to FCC part 2.1046 and part 24.232

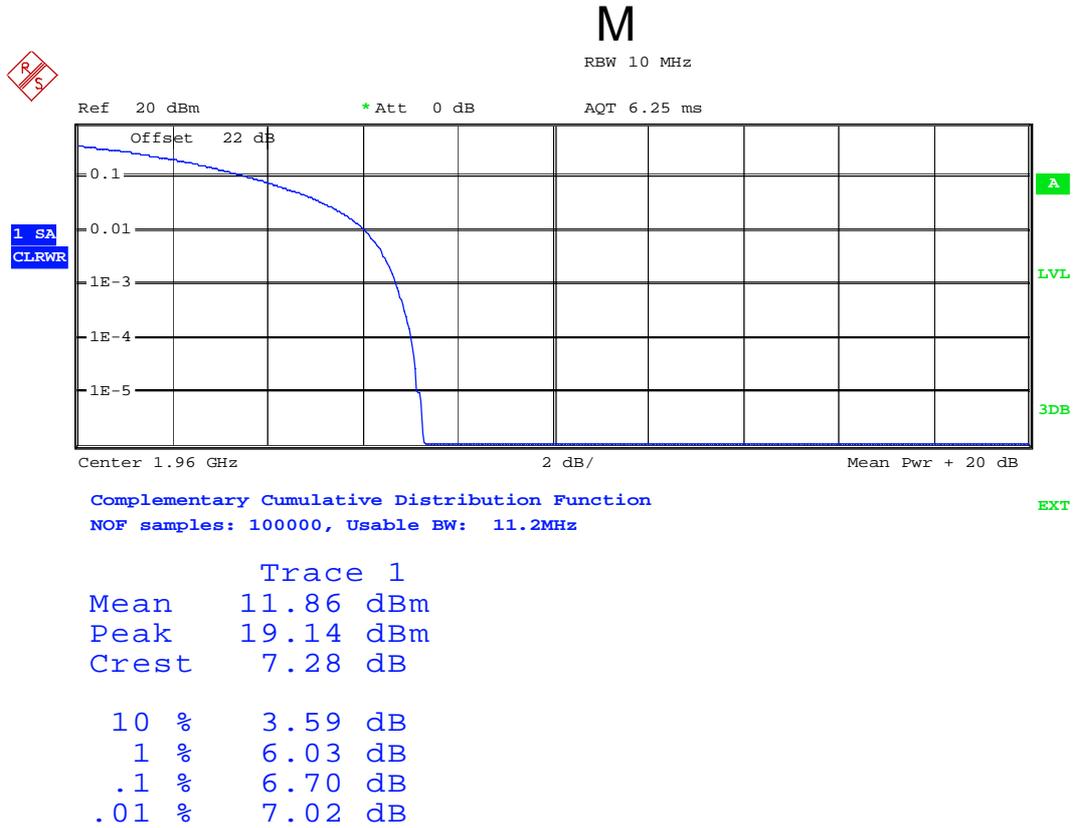


PCS Band:

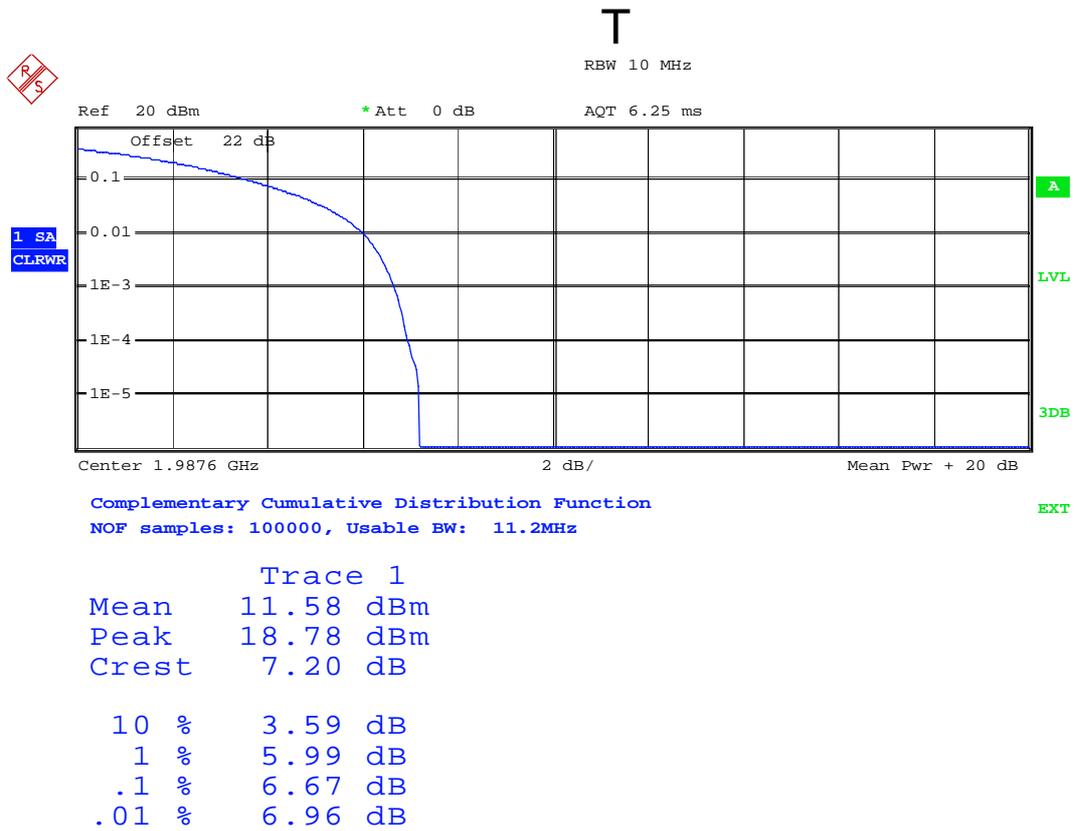
(1) TM1



Date: 17.SEP.2009 19:13:54



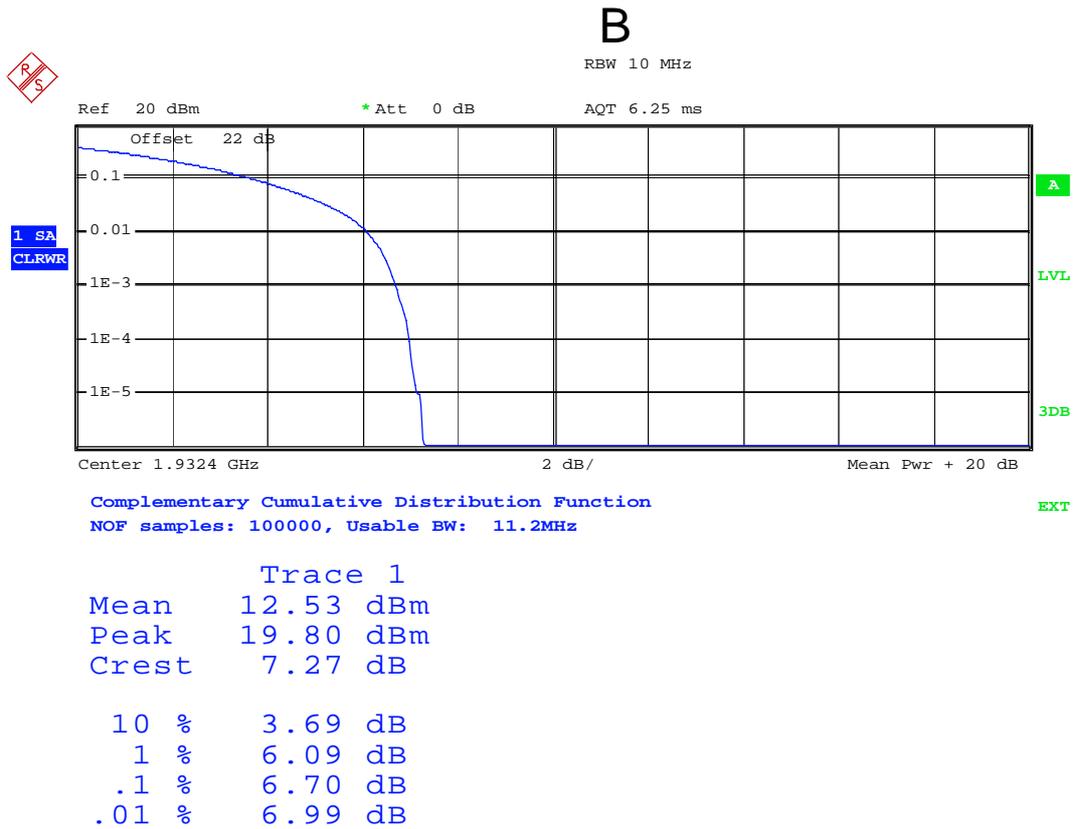
Date: 17.SEP.2009 19:00:17



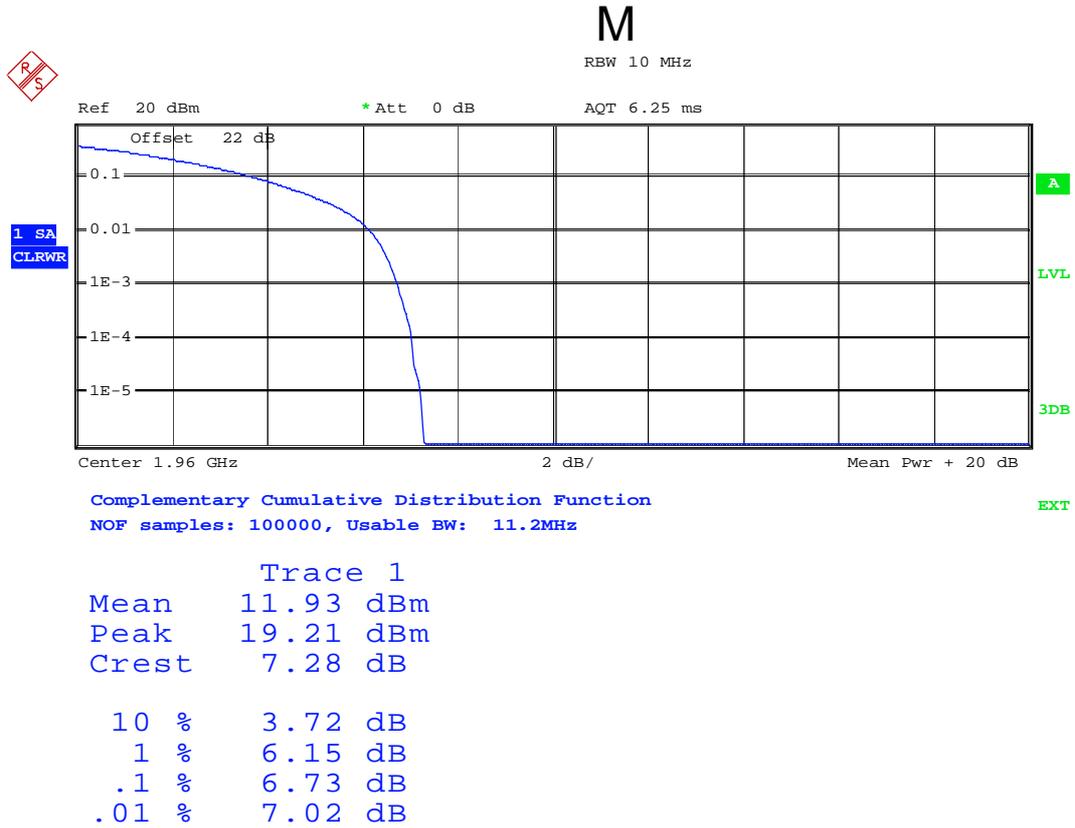
Date: 17.SEP.2009 19:28:20



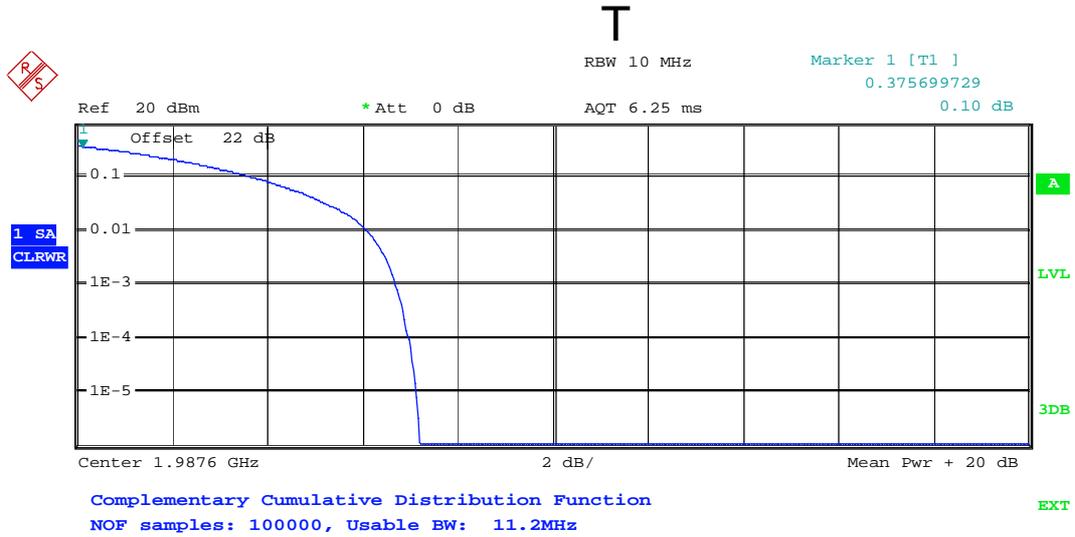
(2) TM5



Date: 17.SEP.2009 19:25:08



Date: 17.SEP.2009 19:10:23



Trace 1

Mean	11.52 dBm
Peak	18.71 dBm
Crest	7.19 dB
10 %	3.69 dB
1 %	6.09 dB
.1 %	6.70 dB
.01 %	6.99 dB

Date: 17.SEP.2009 19:38:29



Appendix B

Modulation Characteristic Measurement

According to FCC part 2.1047 and part 22 subpart H

According to FCC part 2.1047 and part 24 subpart E



1. Cellular Band

(1) TM1

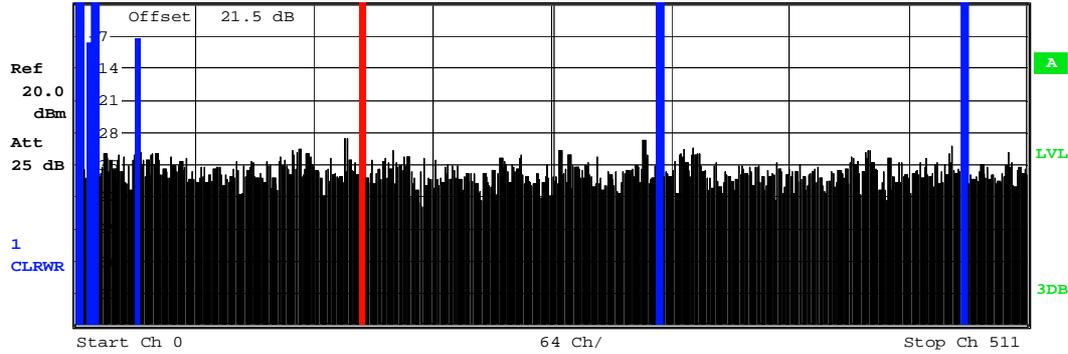
M



Code Power Relative

SR 30 ksps
Chan Code 38
Chan Slot 4

CF 881.4 MHz CPICH Slot 0



Result Summary

SR 30 ksps
Chan Code 38
Chan Slot 4

CF 881.4 MHz CPICH Slot 0

GLOBAL RESULTS FOR FRAME 0:		Carrier Freq Error	2.56 Hz	
Total Power		12.95 dBm	Trigger to Frame	4.880564 ms
Chip Rate Error		0.02 ppm	Avg Pow Ina Chan	-52.58 dB
IQ Offset / Imb		0.40 / 1.92 %	Pk CDE (15 ksps)	-41.17 dB
Composite EVM		7.68 %	Avg RCDE (64QAM)	-.-- dB
Rho		0.99413	No of Active Chan	8
CHANNEL RESULTS		RCDE	-34.47 dB	
Symbol Rate		30.00 ksps	Timing Offset	28672 Chips
Channel Code		38	Channel Slot No	4
No of Pilot Bits		8	Modulation Type	QPSK
Channel Power Rel		3.04 dB	Channel Power Abs	5.95 dBm
Symbol EVM		2.20 % rms	Symbol EVM	5.57 % Pk

Date: 17.SEP.2009 19:42:55



(2) TM5

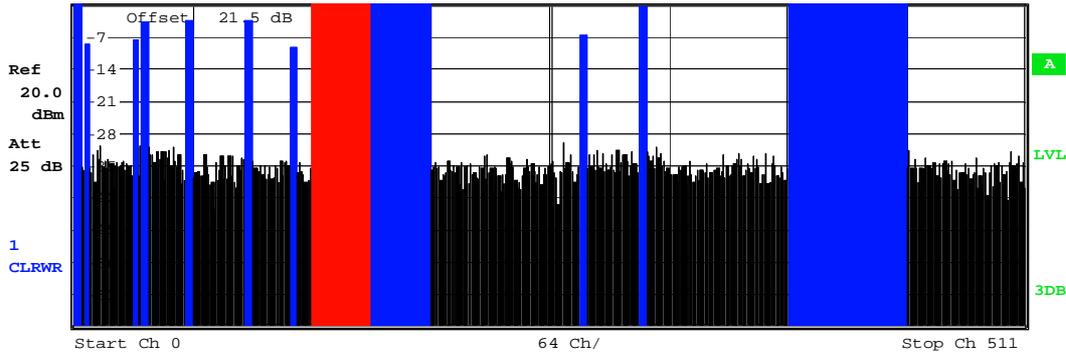
M



Code Power Relative

SR 240 ksps
Chan Code 38
Chan Slot 0

CF 881.4 MHz CPICH Slot 0



Result Summary

SR 240 ksps
Chan Code 38
Chan Slot 0

CF 881.4 MHz CPICH Slot 0

GLOBAL RESULTS FOR FRAME 0:		Carrier Freq Error	-5.32 Hz	
Ref	Total Power	12.96 dBm	Trigger to Frame	7.583855 ms
20.0 dBm	Chip Rate Error	0.02 ppm	Avg Pow Ina Chan	-51.62 dB
Att	IQ Offset / Imb	0.33 / 1.53 %	Pk CDE (15 ksps)	-43.11 dB
25 dB	Composite EVM	7.80 %	Avg RCDE (64QAM)	-.-- dB
	Rho	0.99395	No of Active Chan	14
CHANNEL RESULTS		RCDE	-25.57 dB	
	Symbol Rate	240.00 ksps	Timing Offset	0 Chips
	Channel Code	4	Channel Slot No	0
1 CLRWR	No of Pilot Bits	0	Modulation Type	16QAM
	Channel Power Rel	3.12 dB	Channel Power Abs	5.07 dBm
	Symbol EVM	4.81 % rms	Symbol EVM	17.11 % Pk

Date: 17.SEP.2009 19:54:49



2. PCS Band

(1) TM1

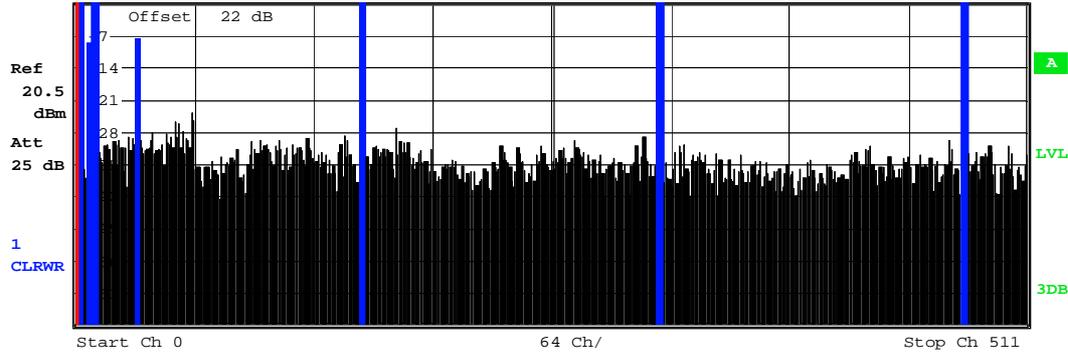
M



Code Power Relative

SR 15 ksps
Chan Code 0
Chan Slot 0

CF 1.96 GHz CPICH Slot 0



Result Summary

SR 15 ksps
Chan Code 0
Chan Slot 0

CF 1.96 GHz CPICH Slot 0

GLOBAL RESULTS FOR FRAME 0:		Carrier Freq Error	-18.64 Hz	
Total Power		12.00 dBm	Trigger to Frame	5.253508 ms
Ref	Chip Rate Error	0.02 ppm	Avg Pow Ina Chan	-50.23 dB
20.5	IQ Offset / Imb	0.14 / 1.63 %	Pk CDE (15 ksps)	-34.93 dB
dBm	Composite EVM	10.06 %	Avg RCDE (64QAM)	-.-- dB
Att	Rho	0.98999	No of Active Chan	8
25 dB	CHANNEL RESULTS		RCDE	-31.48 dB
1	Symbol Rate	15.00 ksps	Timing Offset	0 Chips
CLRWR	Channel Code	0	Channel Slot No	0
	No of Pilot Bits	0	Modulation Type	QPSK
	Channel Power Rel	-0.00 dB	Channel Power Abs	1.96 dBm
	Symbol EVM	2.81 % rms	Symbol EVM	4.21 % Pk

Date: 17.SEP.2009 18:58:39



(2) TM5

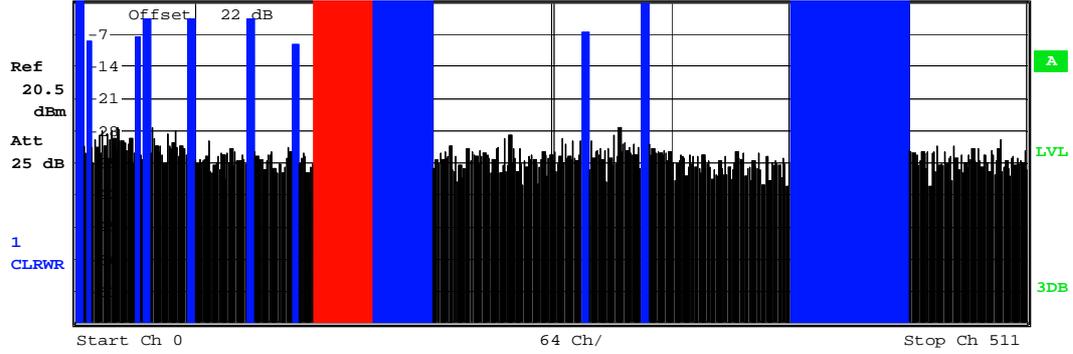
M



Code Power Relative

SR 240 ksps
Chan Code 4
Chan Slot 0

CF 1.96 GHz CPICH Slot 0



Result Summary

SR 240 ksps
Chan Code 4
Chan Slot 0

CF 1.96 GHz CPICH Slot 0

GLOBAL RESULTS FOR FRAME 0:		Carrier Freq Error	-23.52 Hz	
Ref	Total Power	11.94 dBm	Trigger to Frame	7.458480 ms
20.5 dBm	Chip Rate Error	0.00 ppm	Avg Pow Ina Chan	-49.82 dB
Att	IQ Offset / Imb	0.03 / 1.25 %	Pk CDE (15 ksps)	-38.74 dB
25 dB	Composite EVM	10.22 %	Avg RCDE (64QAM)	-.-- dB
	Rho	0.98967	No of Active Chan	14
CHANNEL RESULTS		RCDE	-22.15 dB	
	Symbol Rate	240.00 ksps	Timing Offset	0 Chips
1	Channel Code	4	Channel Slot No	0
CLRWR	No of Pilot Bits	0	Modulation Type	16QAM
	Channel Power Rel	3.10 dB	Channel Power Abs	4.05 dBm
	Symbol EVM	7.83 % rms	Symbol EVM	24.20 % Pk

Date: 17.SEP.2009 19:09:36



Appendix C

Occupied Bandwidth Measurement

According to FCC part 2.1049 and part 22 subpart H

According to FCC part 2.1049 and part 24 subpart E



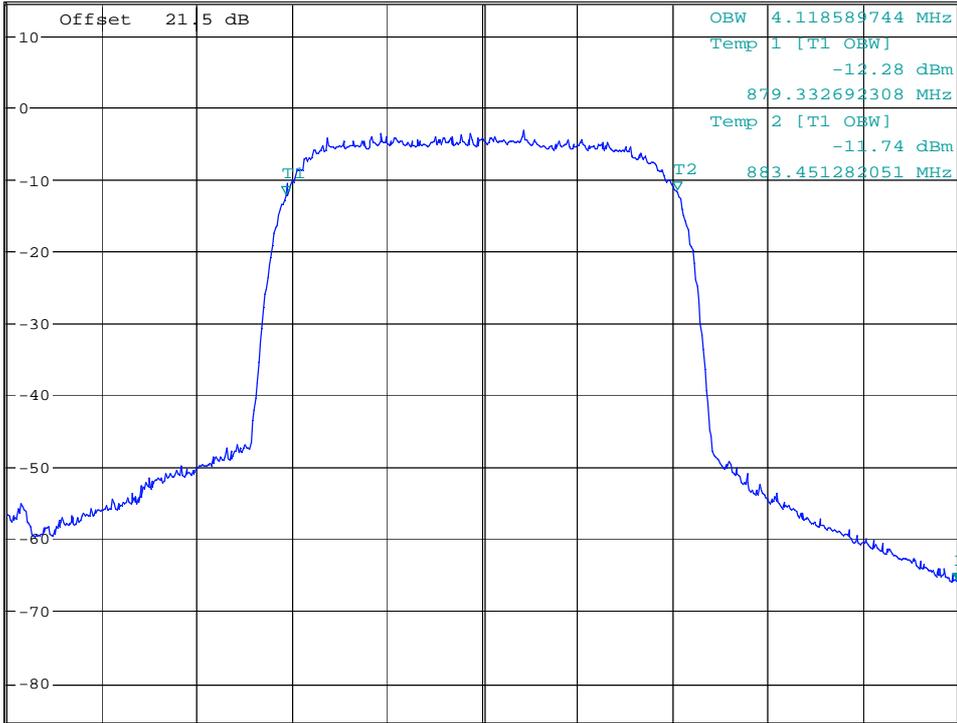
M



*RBW 30 kHz Marker 1 [T1]
 *VBW 300 kHz -66.13 dBm
 *SWT 200 ms 886.40000000 MHz

Ref 14.5 dBm *Att 5 dB

1. RM
 MAXH



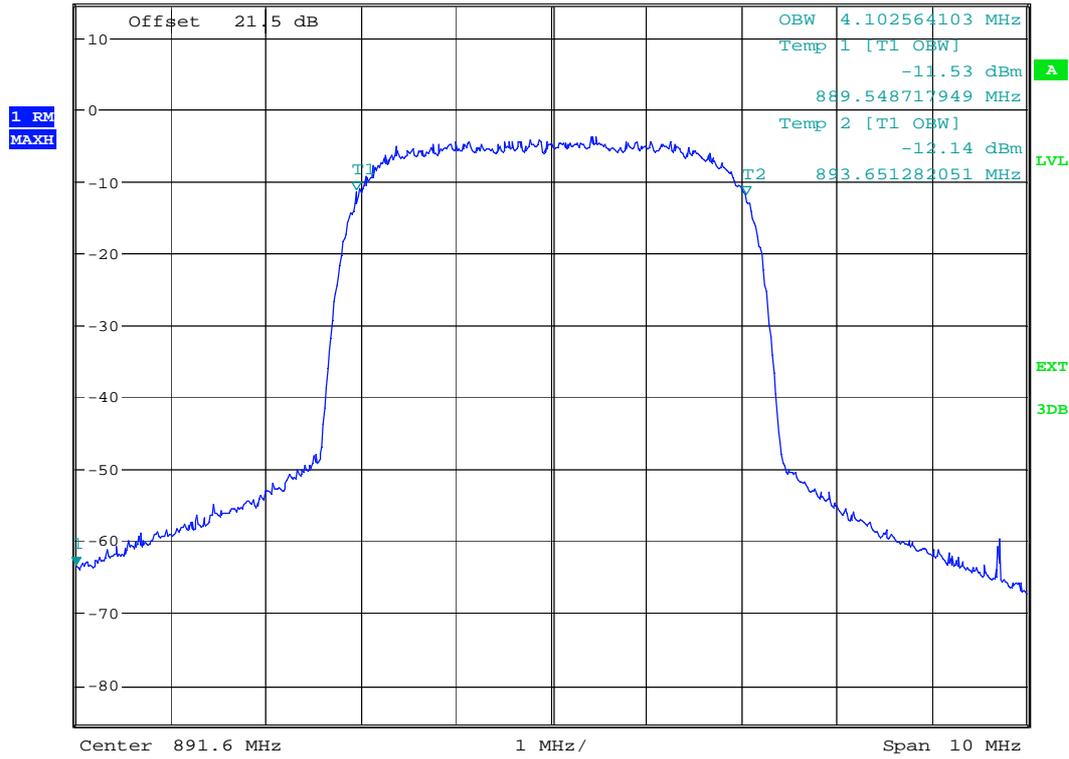
Date: 17.SEP.2009 19:44:26



T



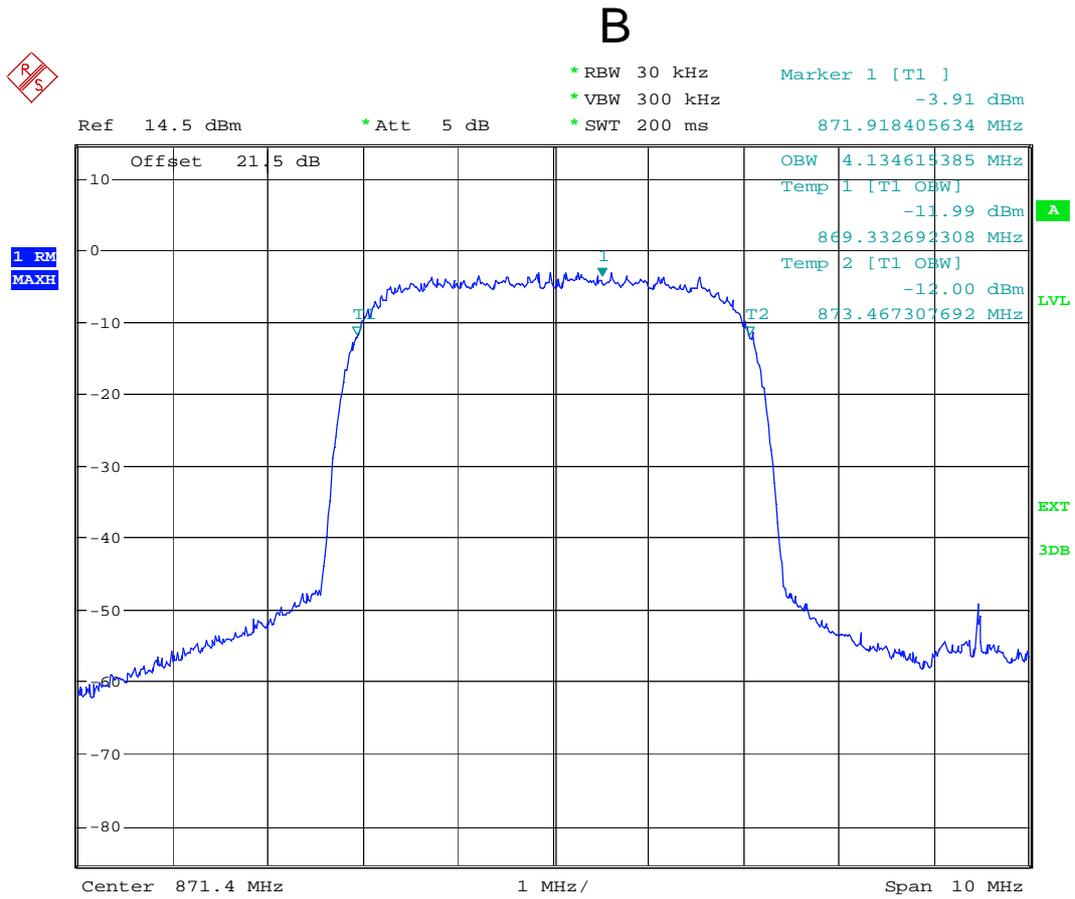
Ref 14.5 dBm *Att 5 dB *RBW 30 kHz *VBW 300 kHz *SWT 200 ms Marker 1 [T1] -63.62 dBm 886.60000000 MHz



Date: 17.SEP.2009 20:12:43



(2) TM5



Date: 17.SEP.2009 20:10:02



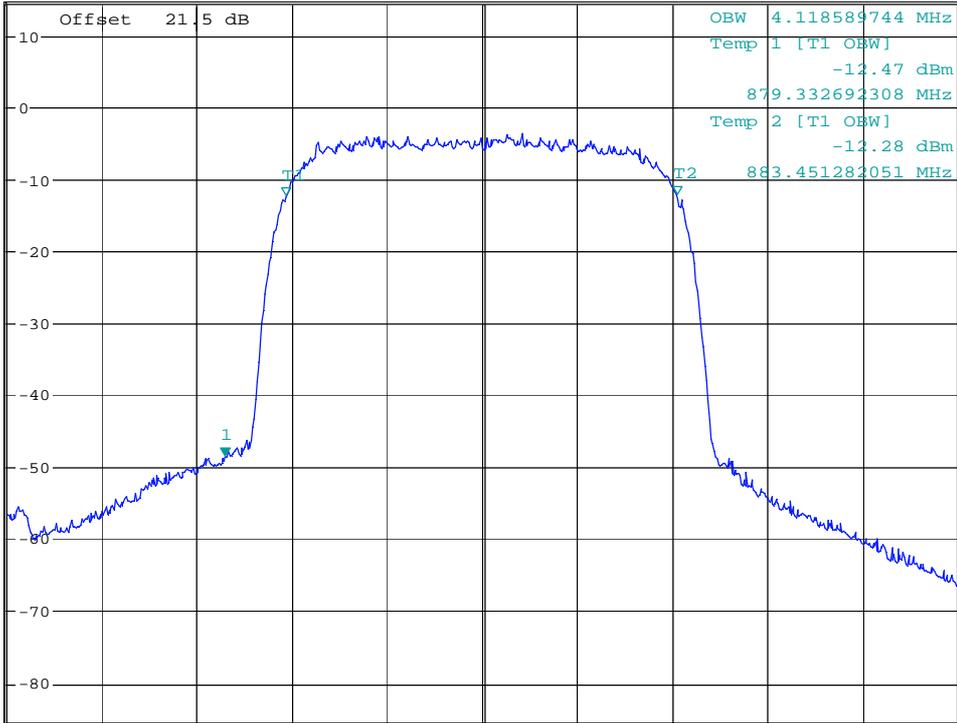
M



*RBW 30 kHz Marker 1 [T1]
 *VBW 300 kHz -48.66 dBm
 *SWT 200 ms 878.688339762 MHz

Ref 14.5 dBm *Att 5 dB

1. RM
 MAXH



Center 881.4 MHz 1 MHz/ Span 10 MHz

Date: 17.SEP.2009 19:55:27

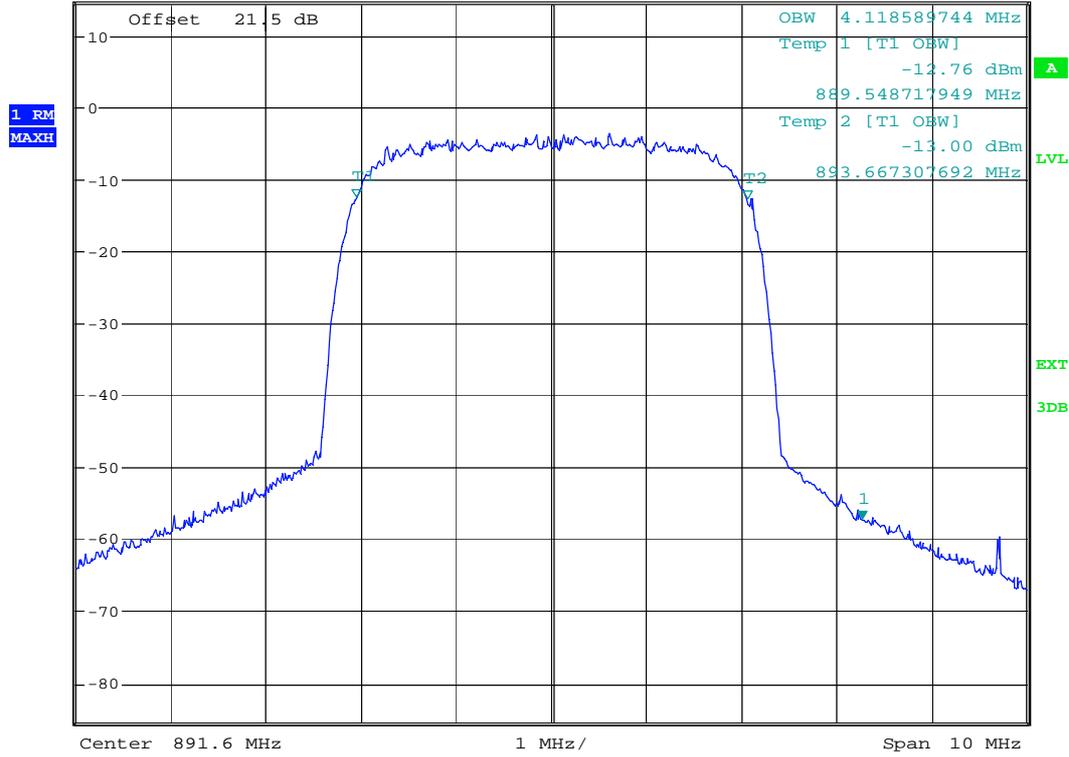


T



Ref 14.5 dBm *Att 5 dB *RBW 30 kHz *VBW 300 kHz *SWT 200 ms

Marker 1 [T1] -57.46 dBm 894.869943229 MHz

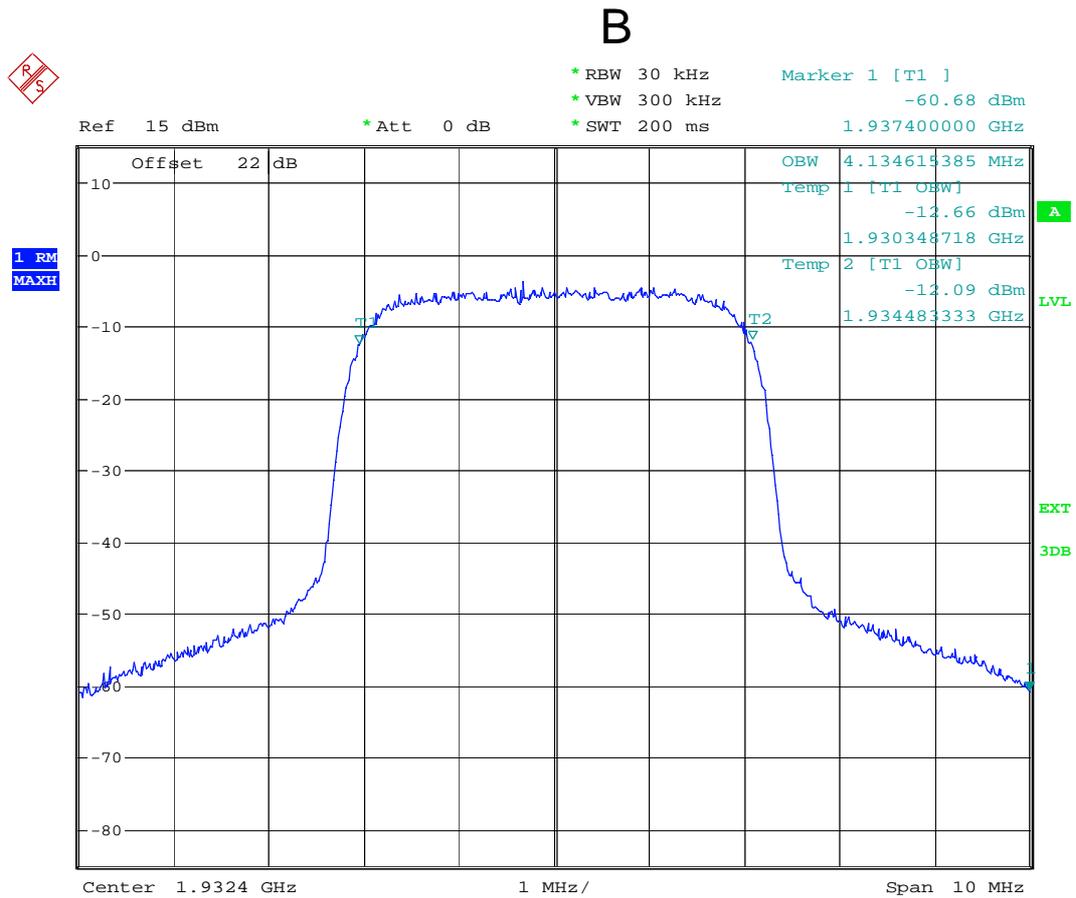


Date: 17.SEP.2009 20:25:39



2. PCS Band

(1) TM1



Date: 17.SEP.2009 19:13:32



M

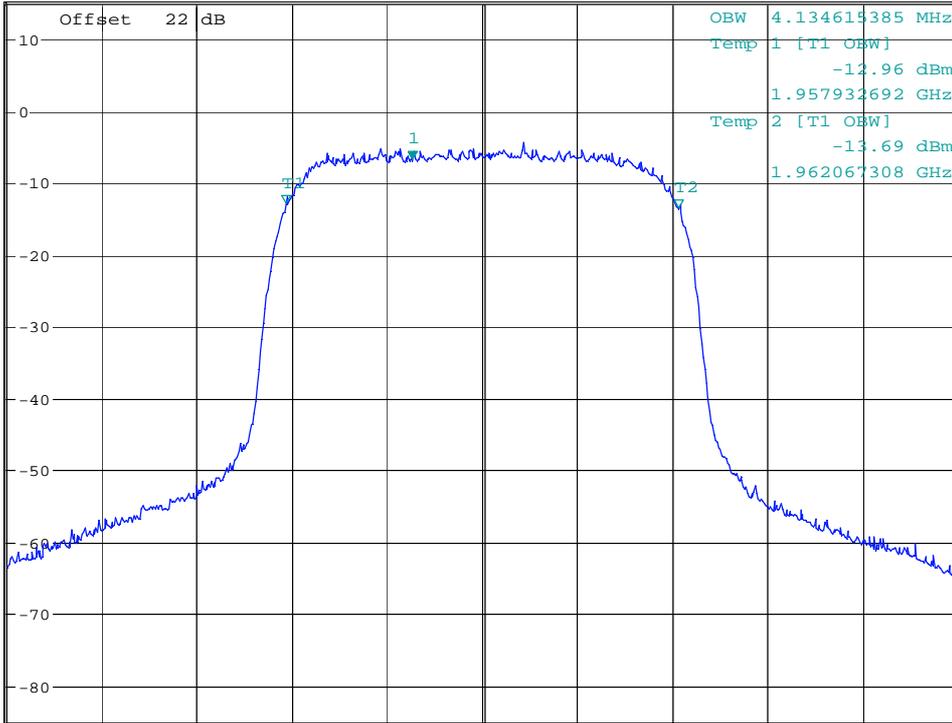


*RBW 30 kHz Marker 1 [T1]
 *VBW 300 kHz -6.96 dBm
 *SWT 200 ms 1.959264423 GHz

Ref 15 dBm

*Att 0 dB

1. RM
 MAXH



Center 1.96 GHz 1 MHz/ Span 10 MHz

Date: 17.SEP.2009 18:59:58



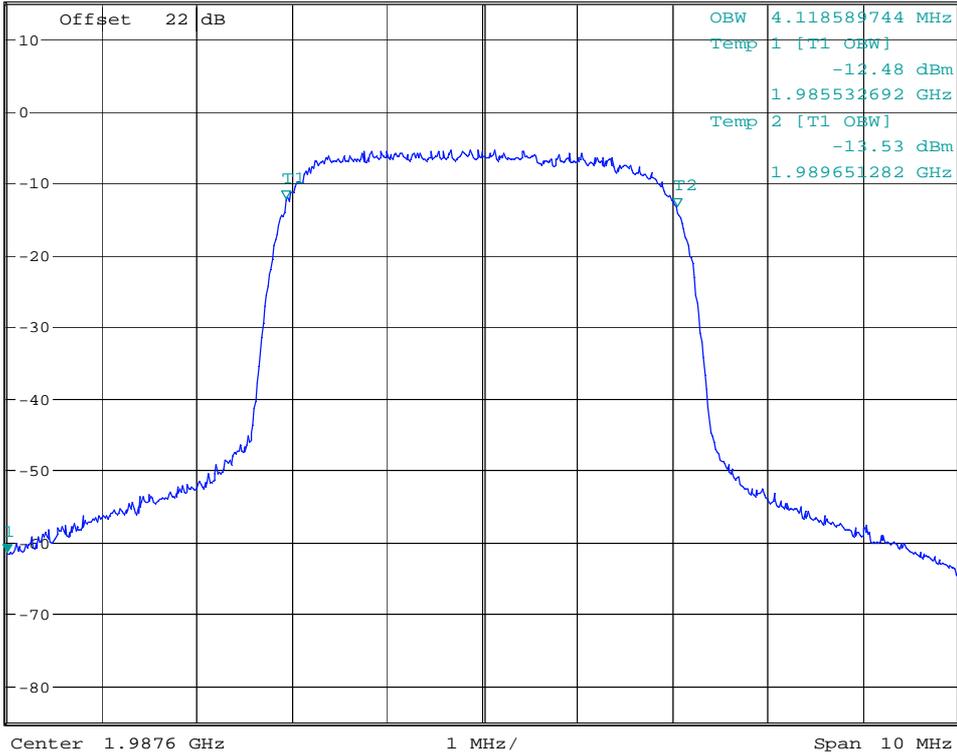
T



Ref 15 dBm *Att 0 dB *RBW 30 kHz *VBW 300 kHz *SWT 200 ms

Marker 1 [T1]
 -61.63 dBm
 1.982600000 GHz

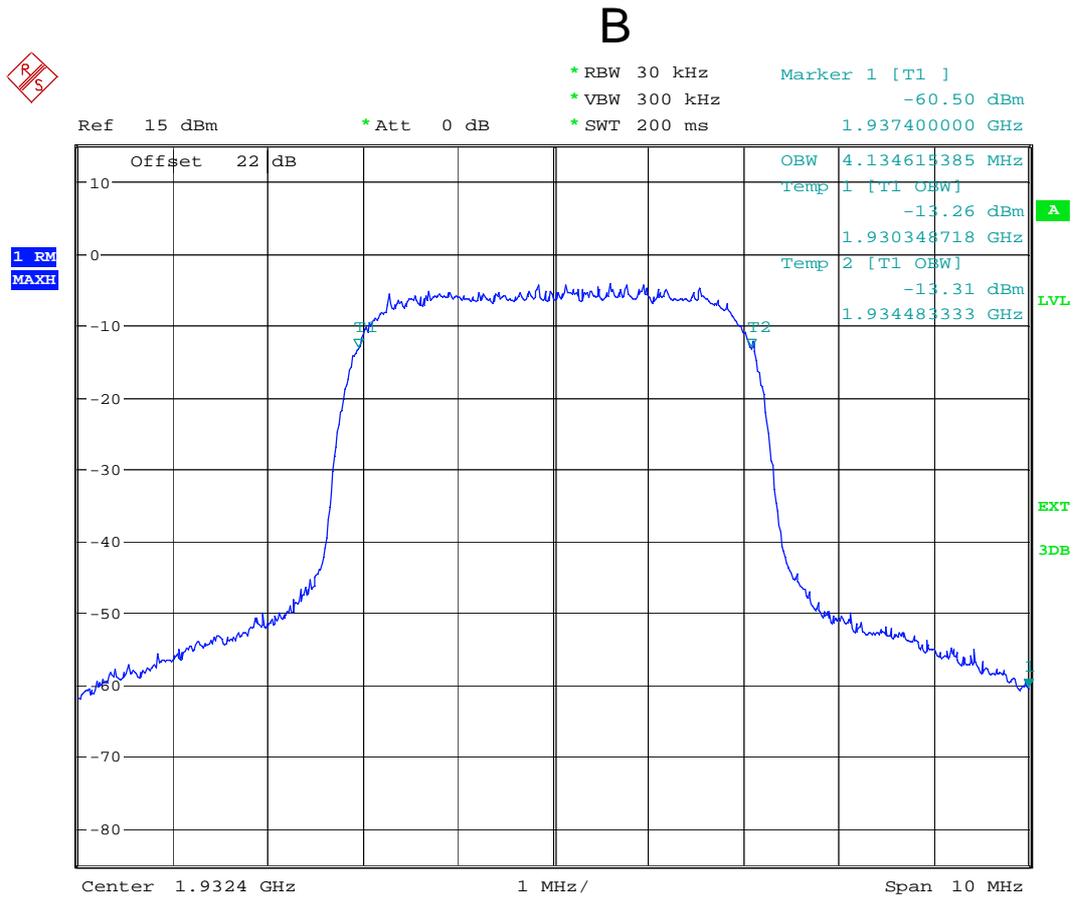
1. RM
 MAXH



Date: 17.SEP.2009 19:28:10



(2) TM5



Date: 17.SEP.2009 19:24:53



M

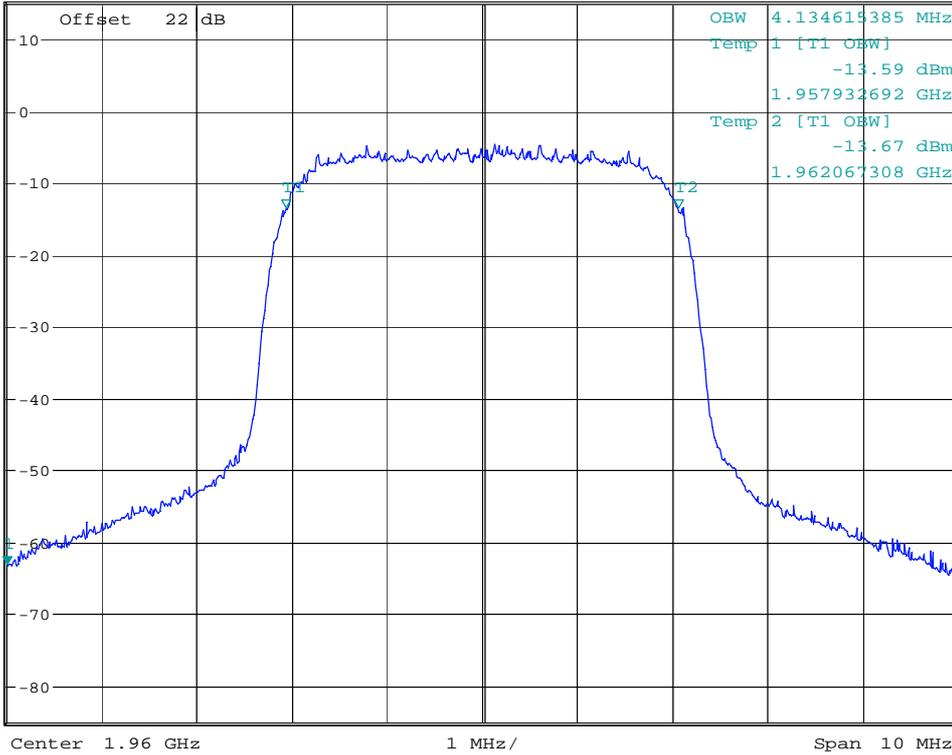


*RBW 30 kHz Marker 1 [T1]
 *VBW 300 kHz -63.20 dBm
 *SWT 200 ms 1.955000000 GHz

Ref 15 dBm

*Att 0 dB

1. RM
 MAXH



Date: 17.SEP.2009 19:10:09



T

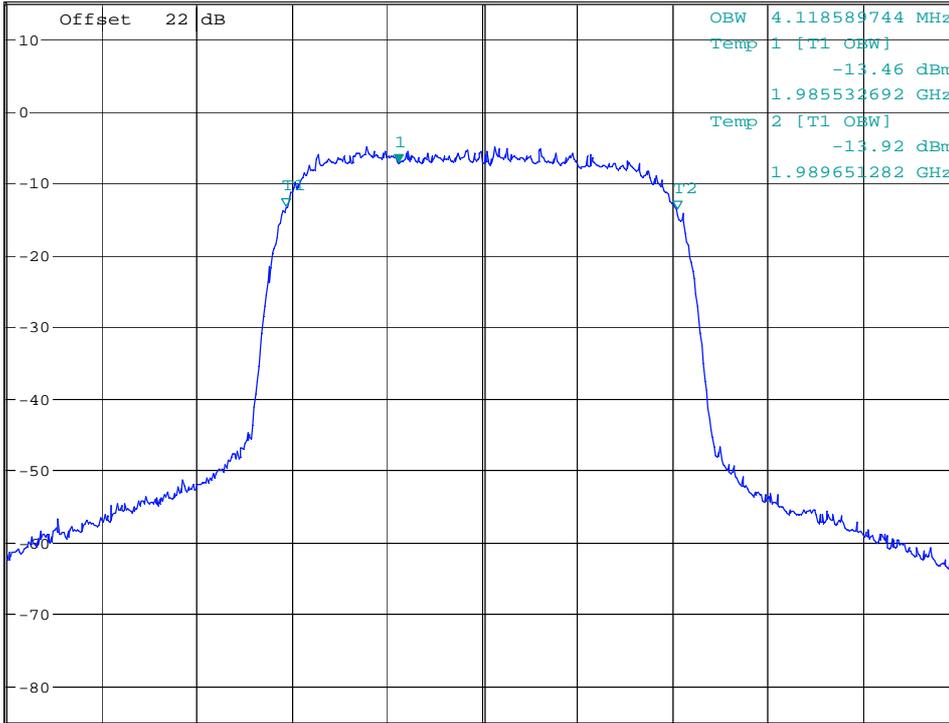


*RBW 30 kHz Marker 1 [T1]
 *VBW 300 kHz -7.36 dBm
 *SWT 200 ms 1.986722698 GHz

Ref 15 dBm

*Att 5 dB

1. RM
 MAXH



Center 1.9876 GHz 1 MHz/ Span 10 MHz

Date: 17.SEP.2009 19:38:07

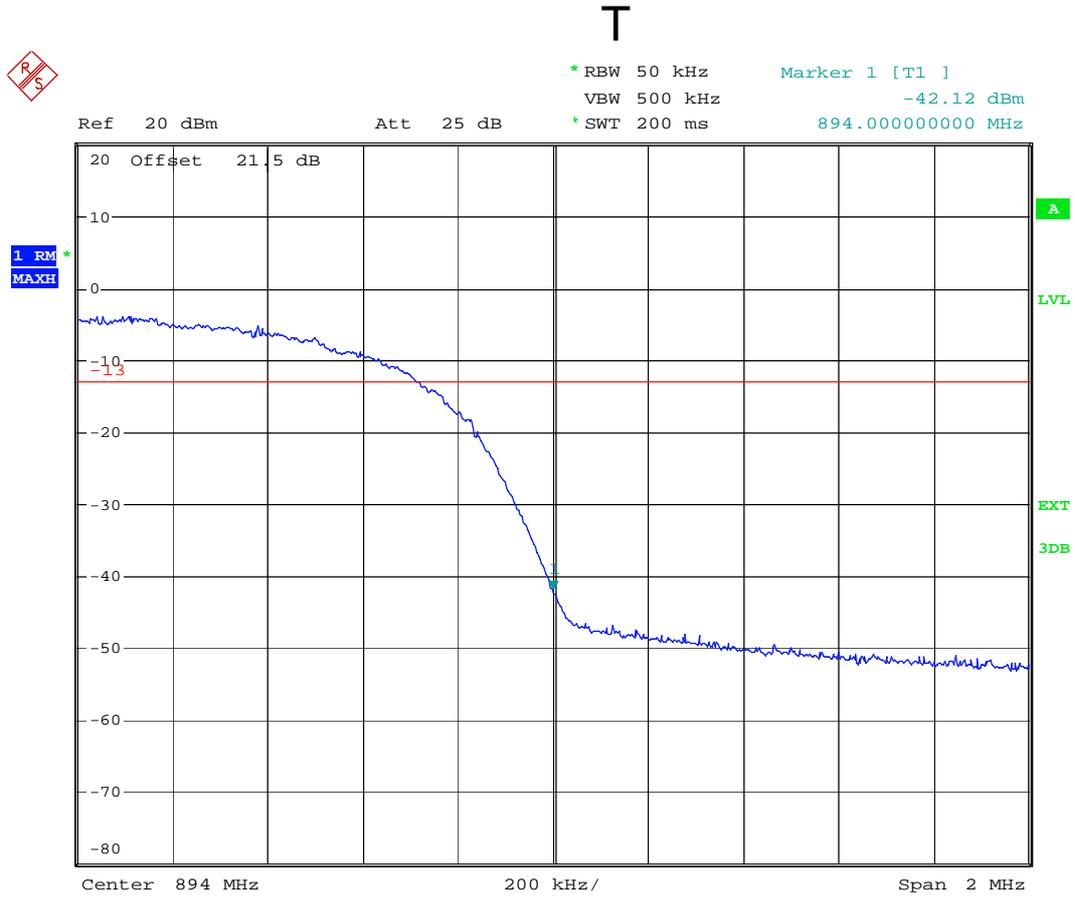


Appendix D

Band Edge Measurement

According to FCC part 2.1051 and part 22.917

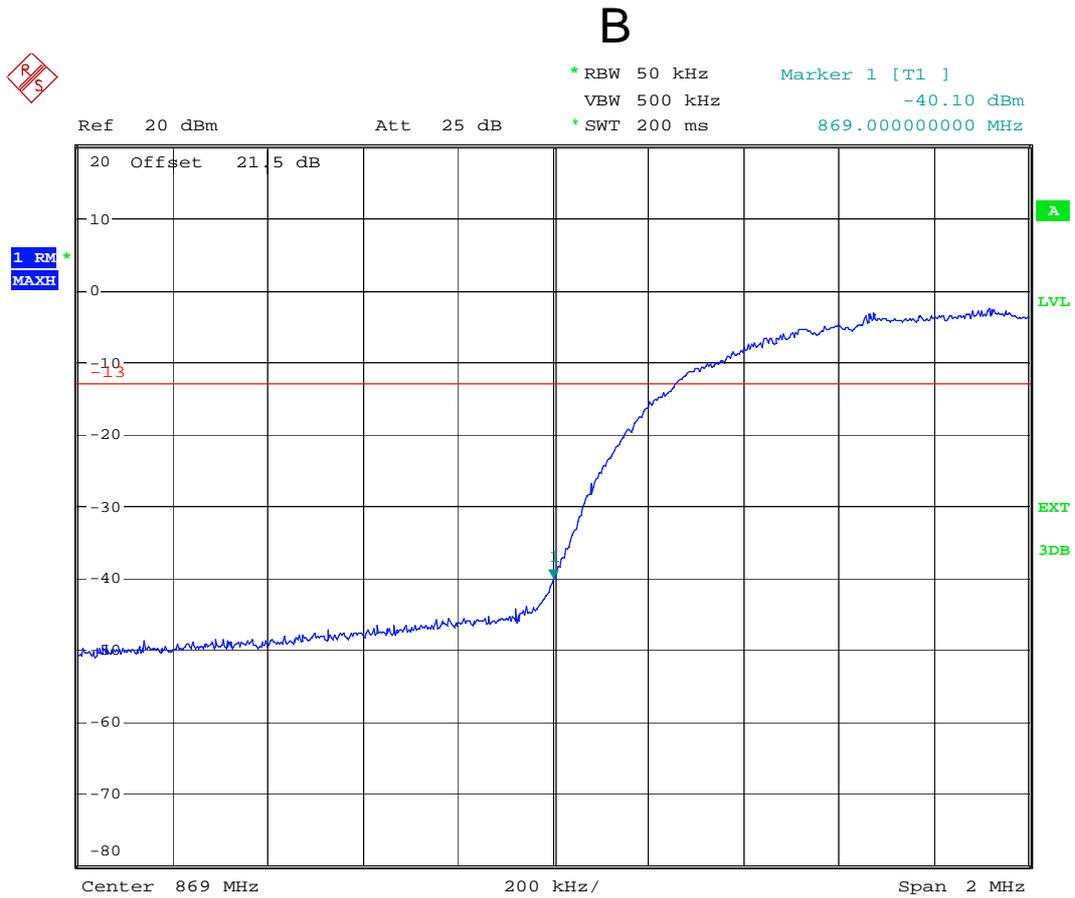
According to FCC part 2.1051 and part 24.238



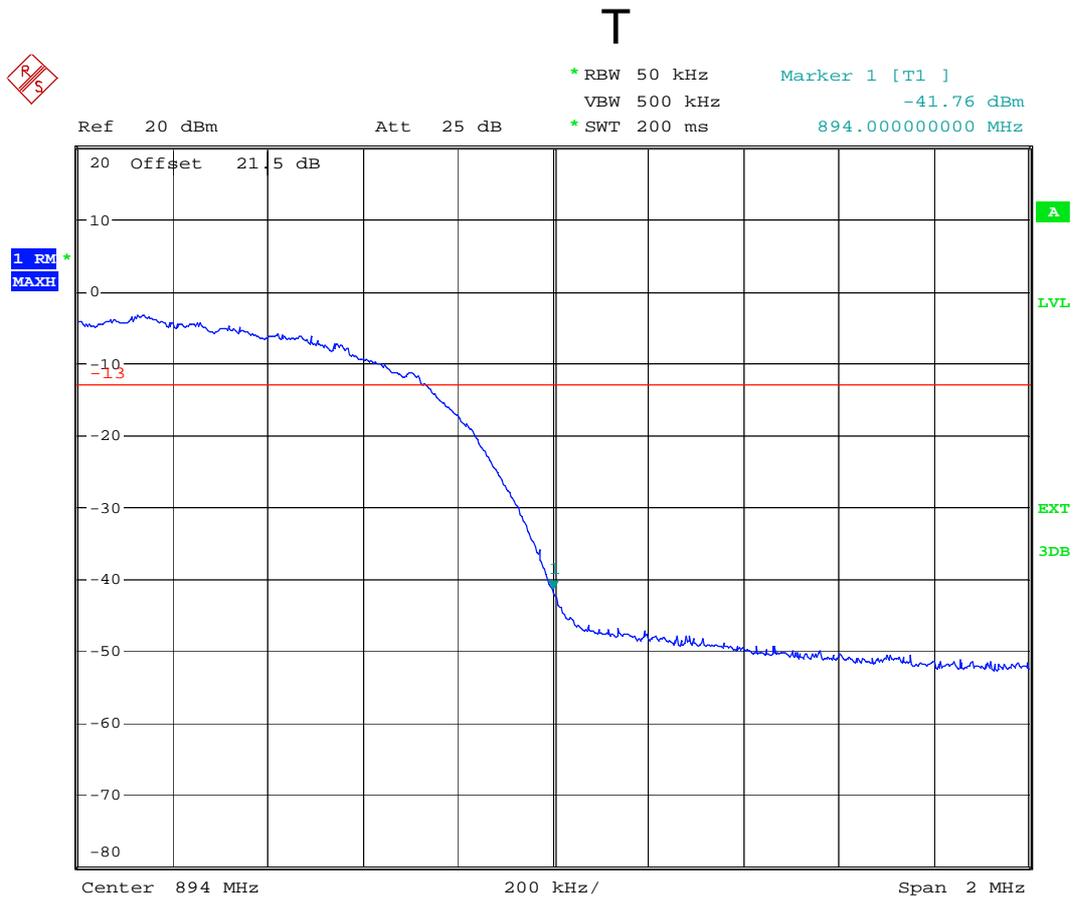
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(2) TM5



Date: 17.SEP.2009 20:09:06

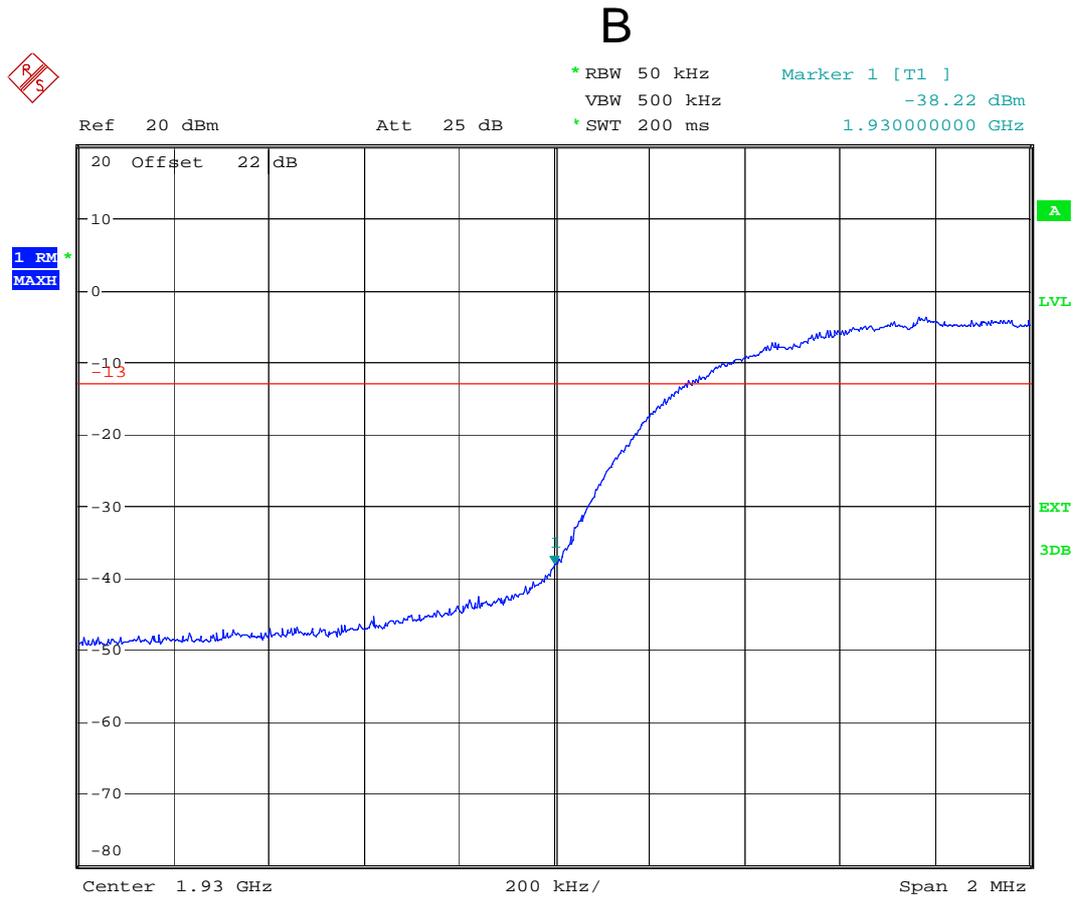


Date: 17.SEP.2009 20:24:15

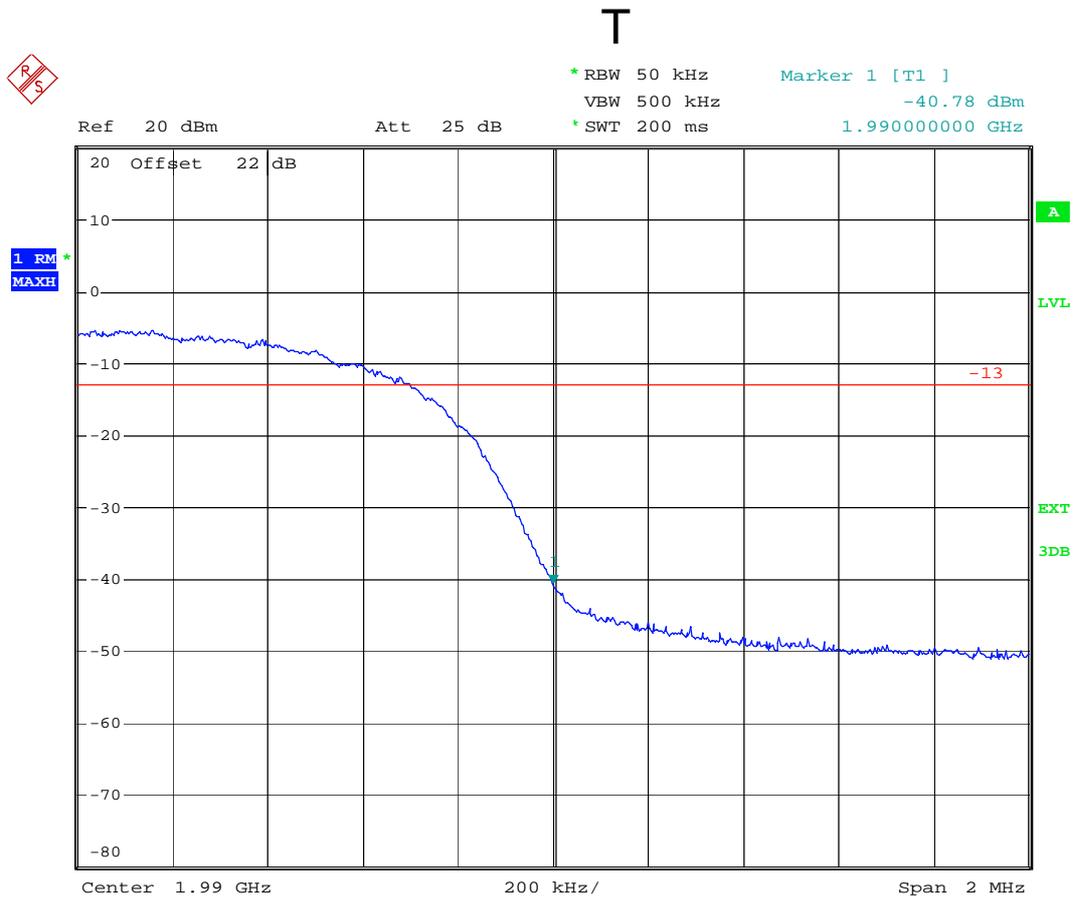


2. PCS Band

(1) TM1



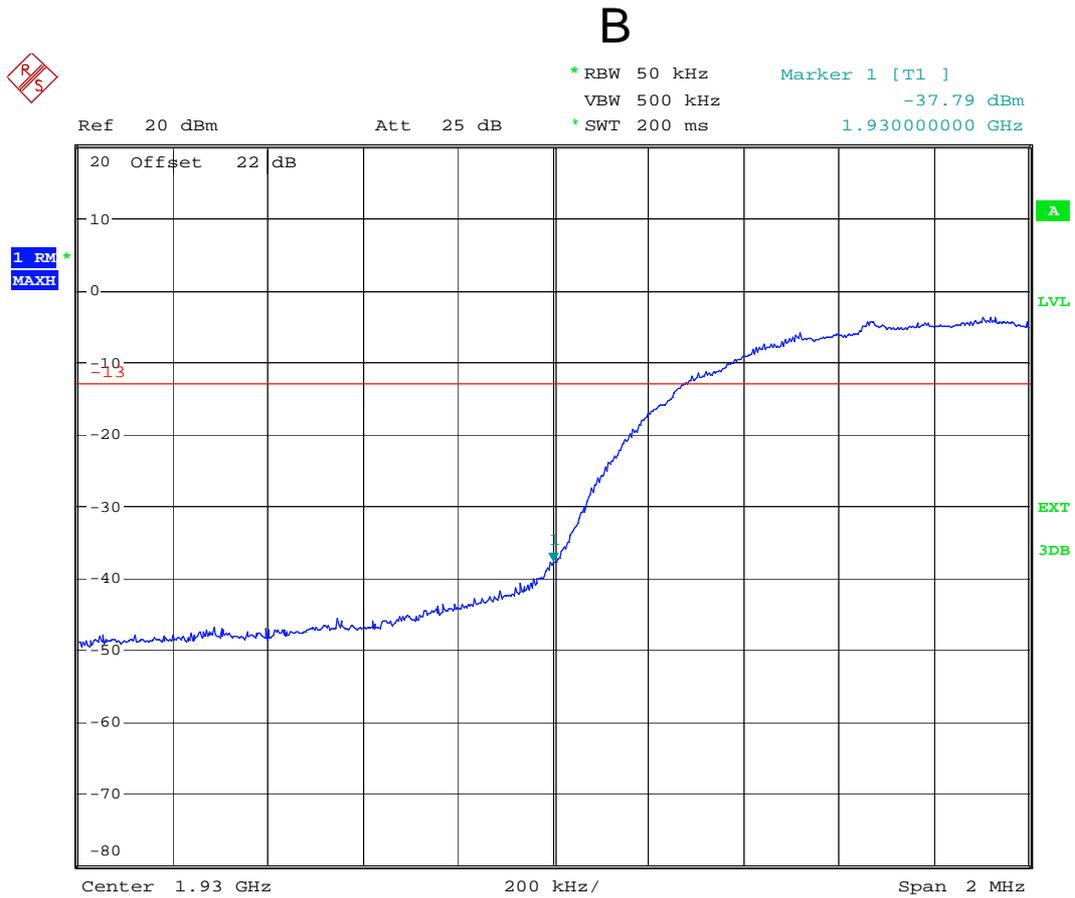
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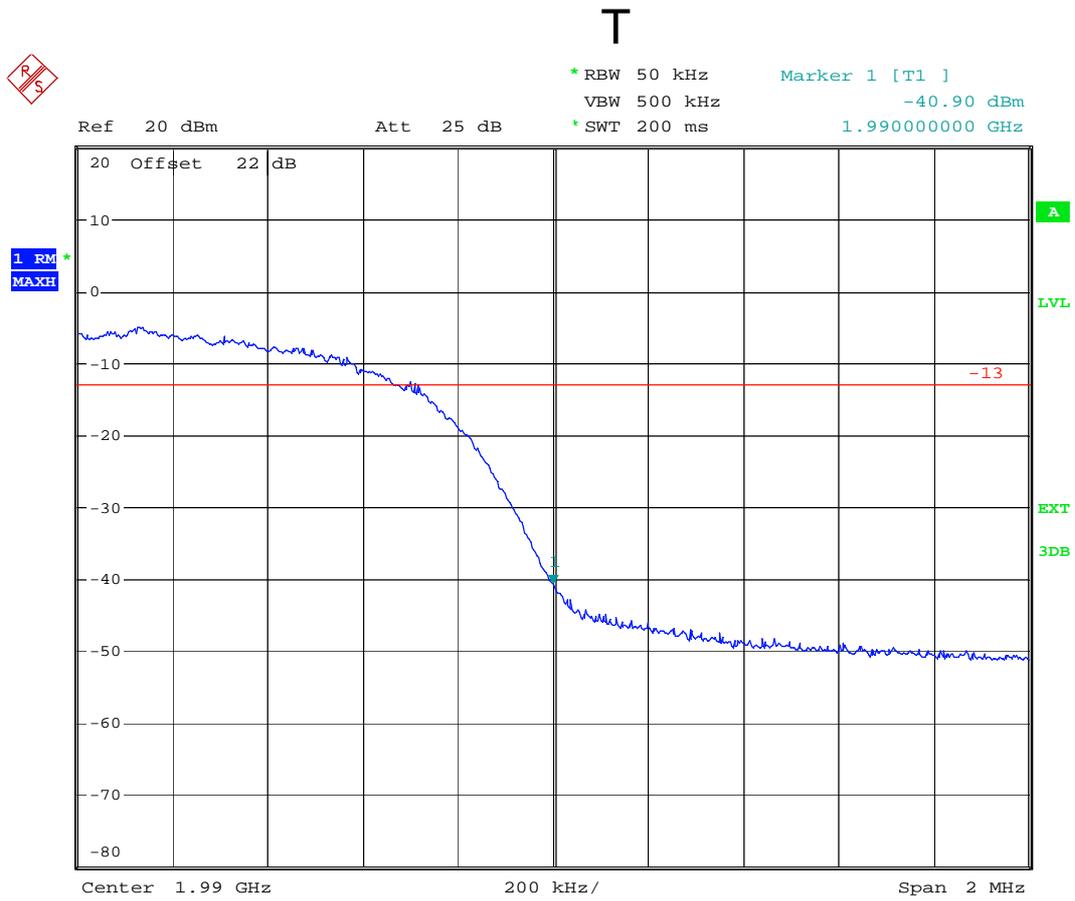
Date: 17.SEP.2009 19:30:07



(2) TM5



Date: 17.SEP.2009 19:24:07



Date: 17.SEP.2009 19:37:02



Appendix E

Spurious Emission at Antenna Terminal Measurement

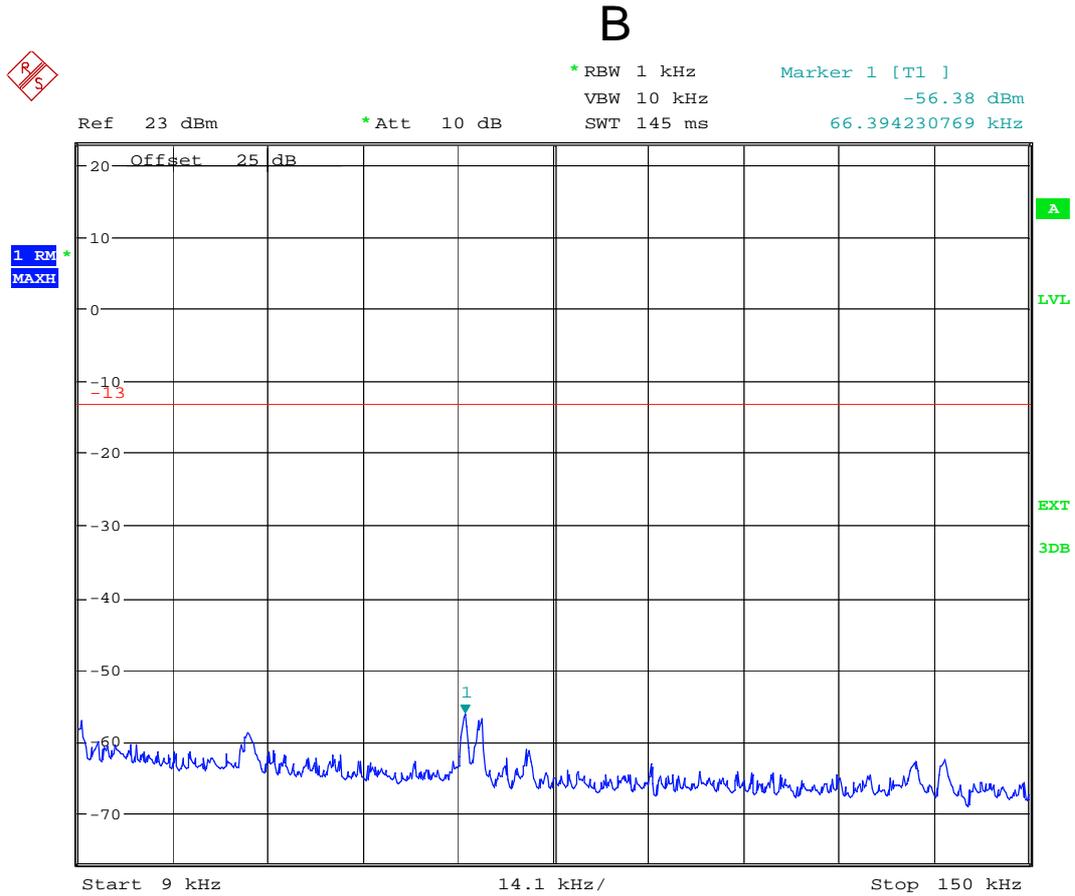
According to FCC part 2.1051 and part 22.917

According to FCC part 2.1051 and part 24.238

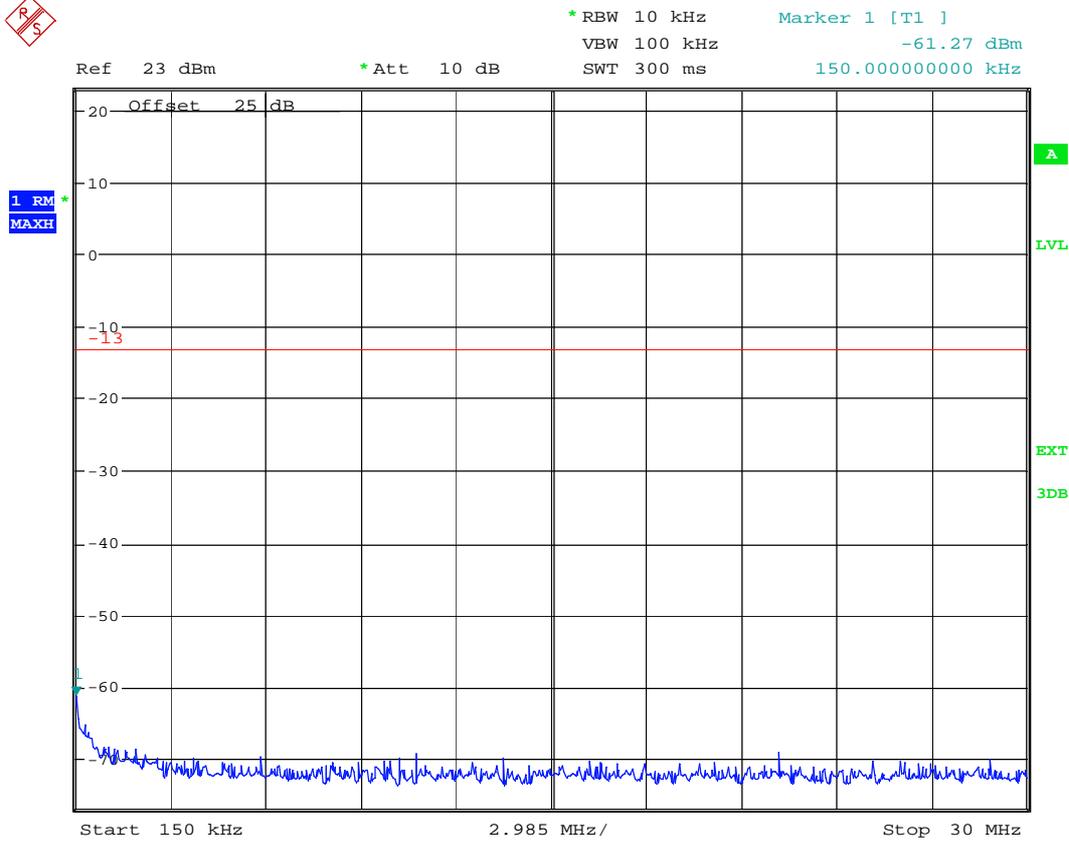


1. Cellular Band

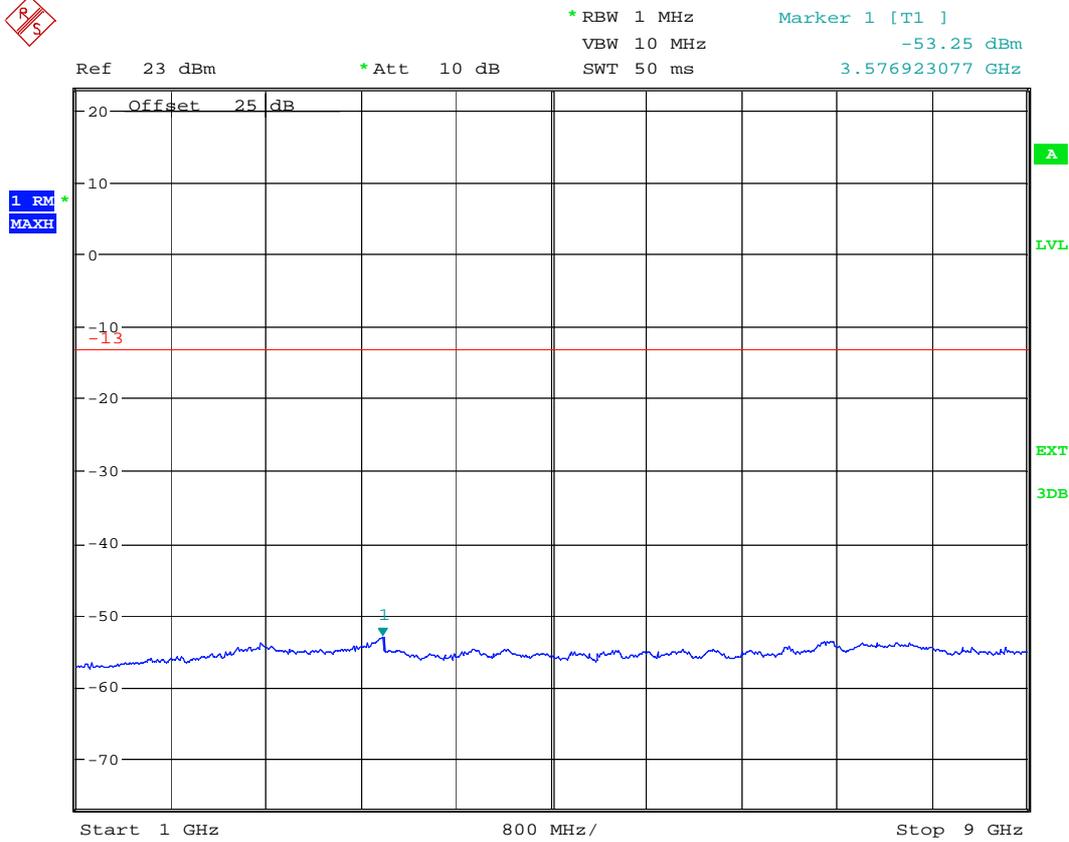
(1) TM1



Date: 17.SEP.2009 20:03:15



Date: 17.SEP.2009 20:03:39



Date: 17.SEP.2009 20:04:55



M



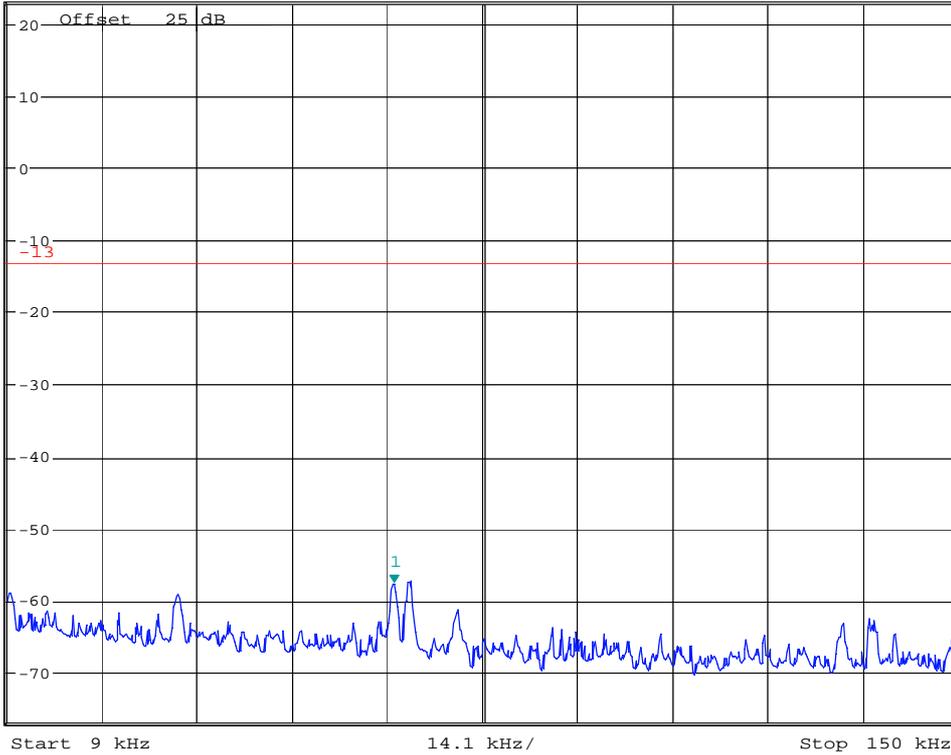
*RBW 1 kHz
VBW 10 kHz
SWT 145 ms

Marker 1 [T1]
-57.68 dBm
66.394230769 kHz

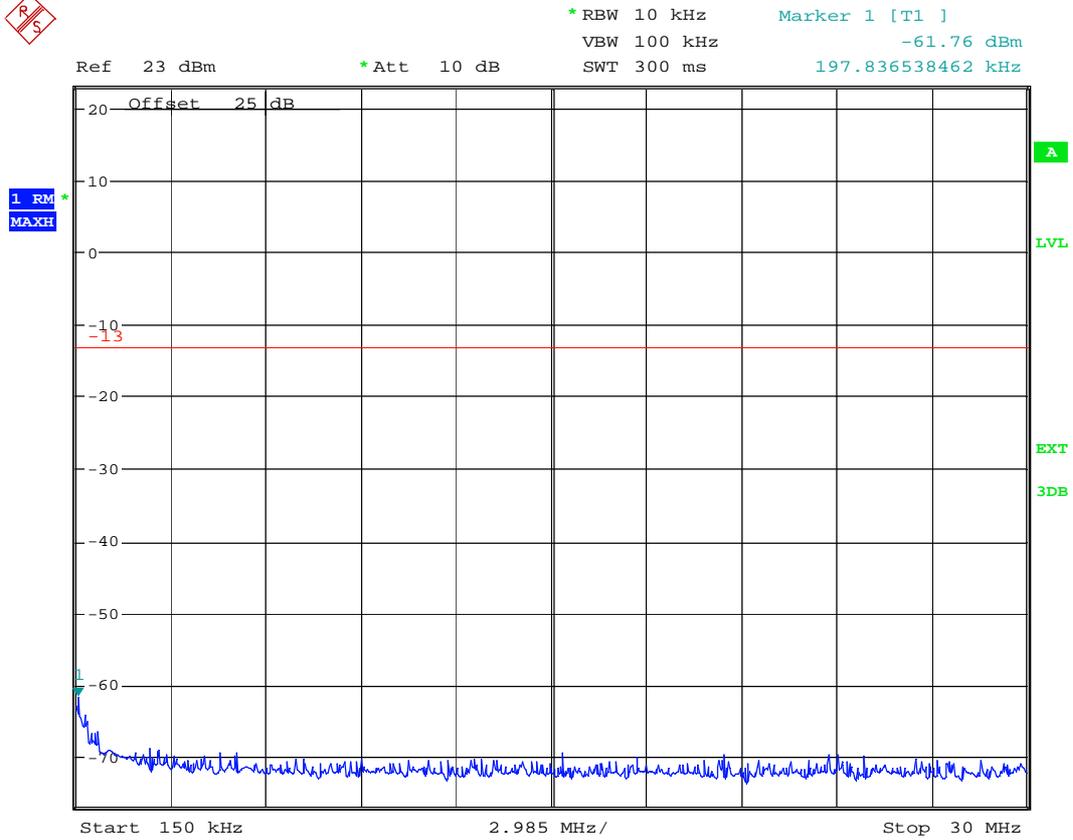
Ref 23 dBm

*Att 10 dB

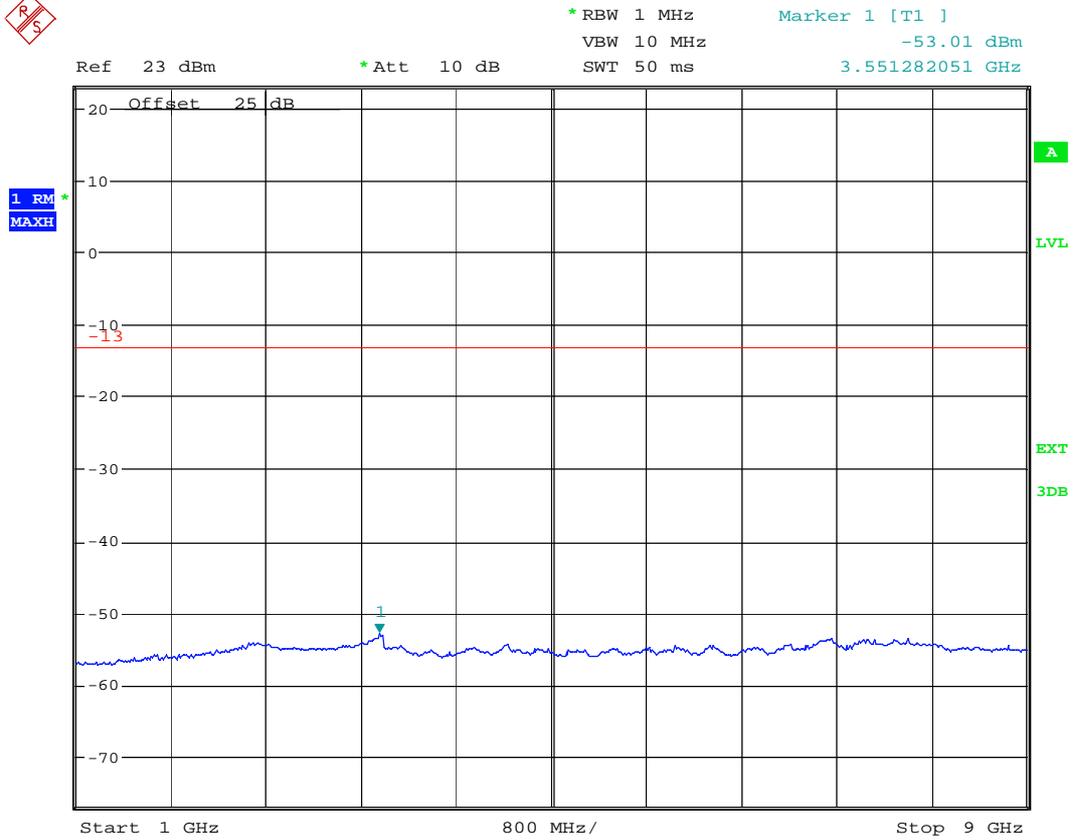
1. RM
MAXH



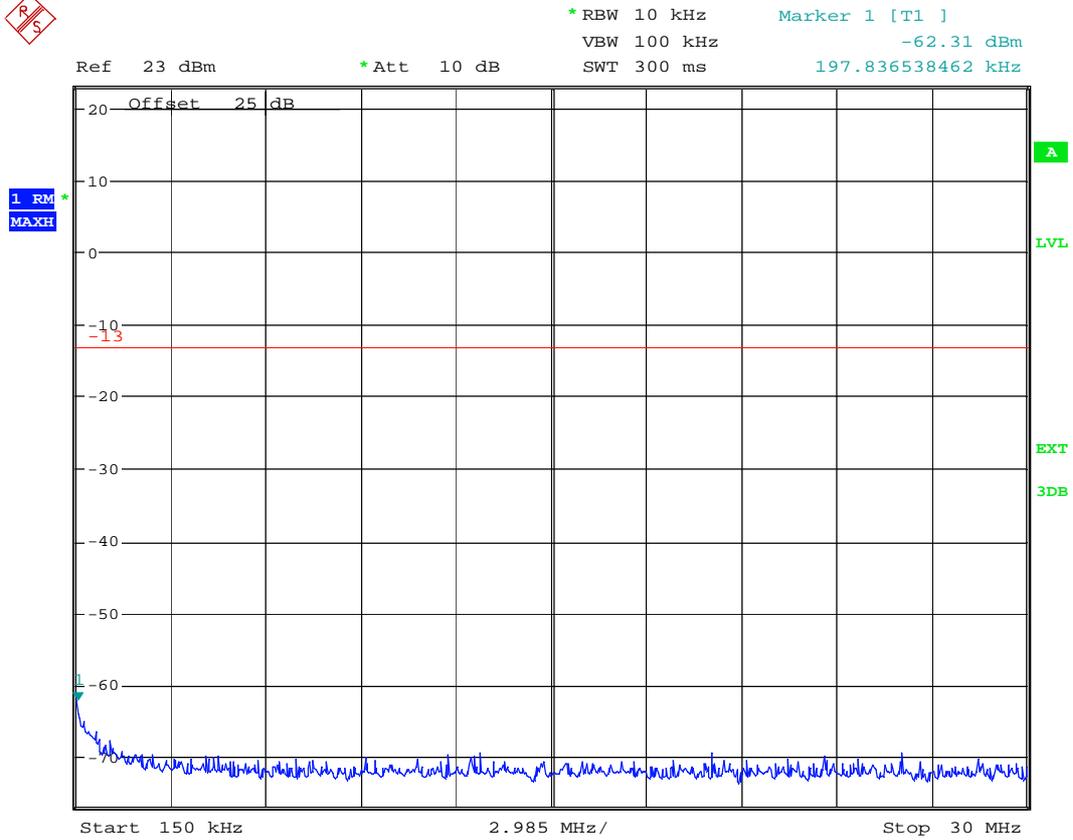
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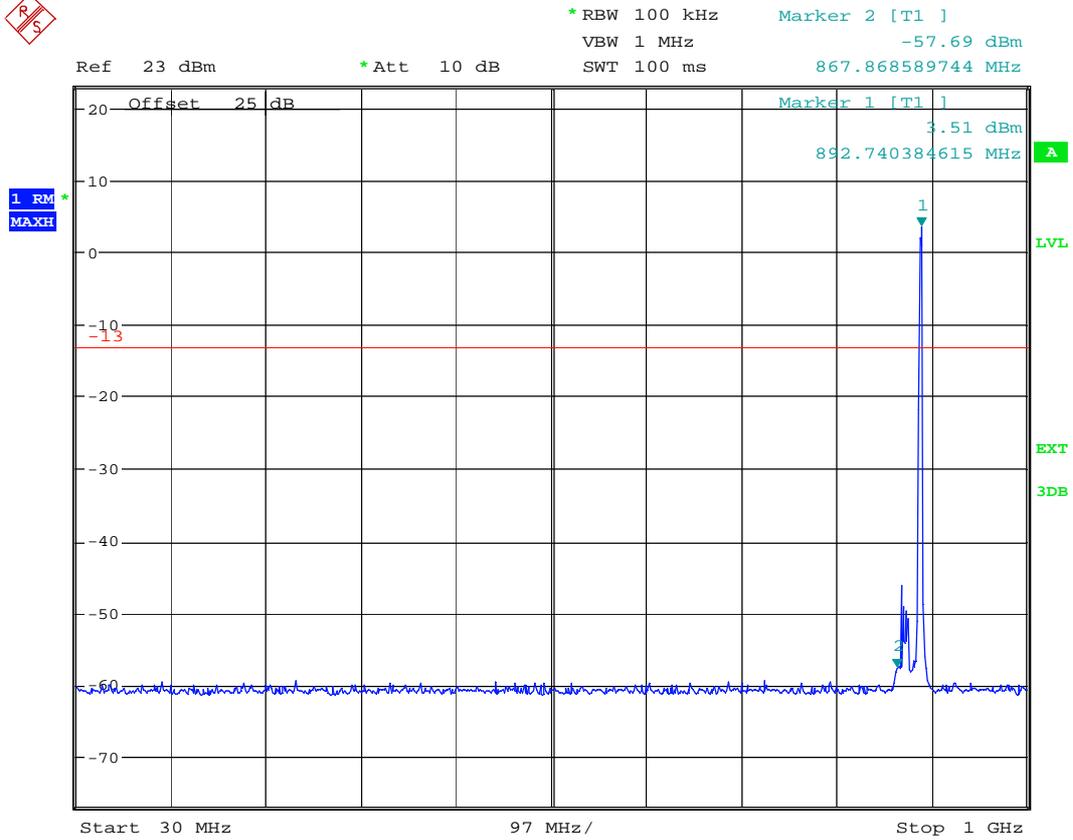
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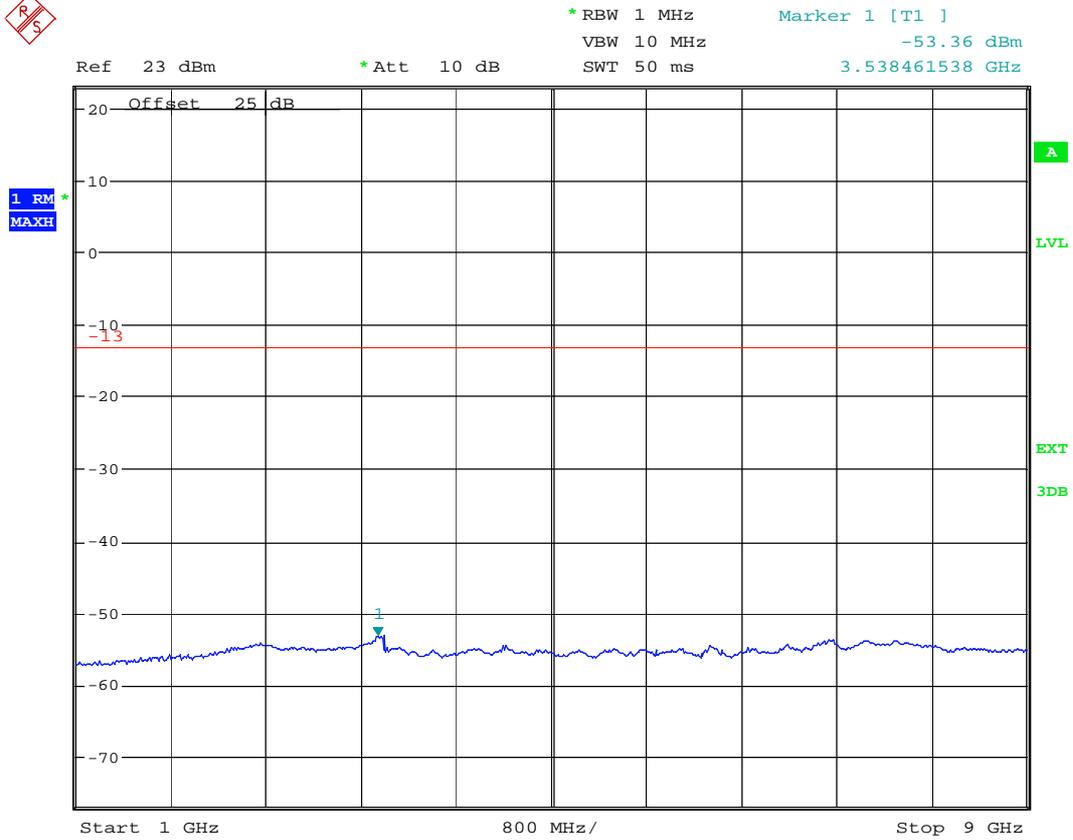
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Date: 17.SEP.2009 20:14:54



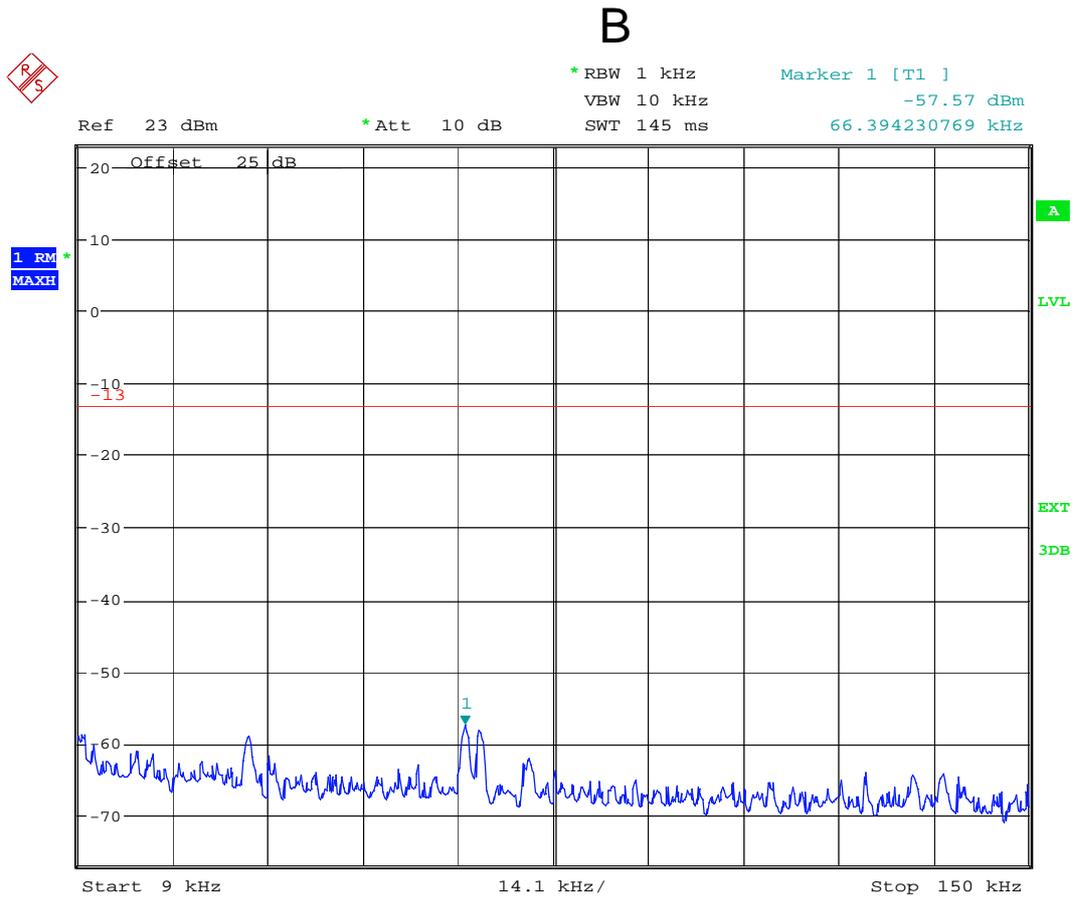
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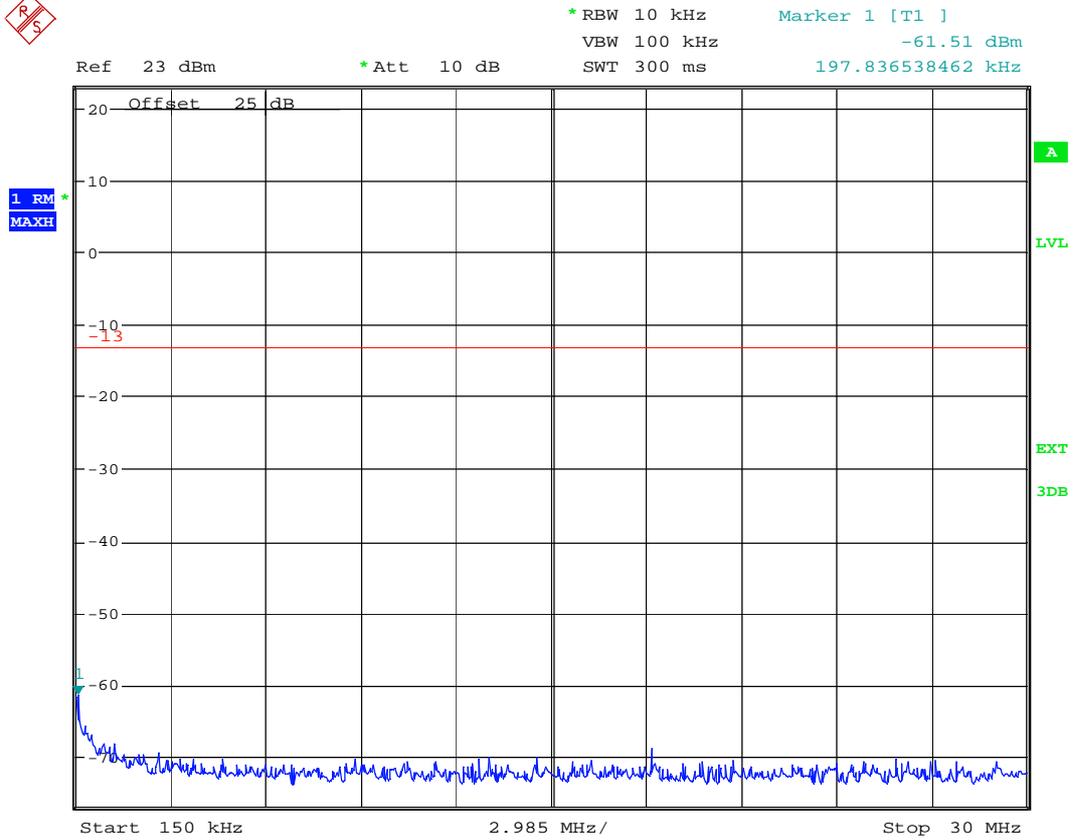
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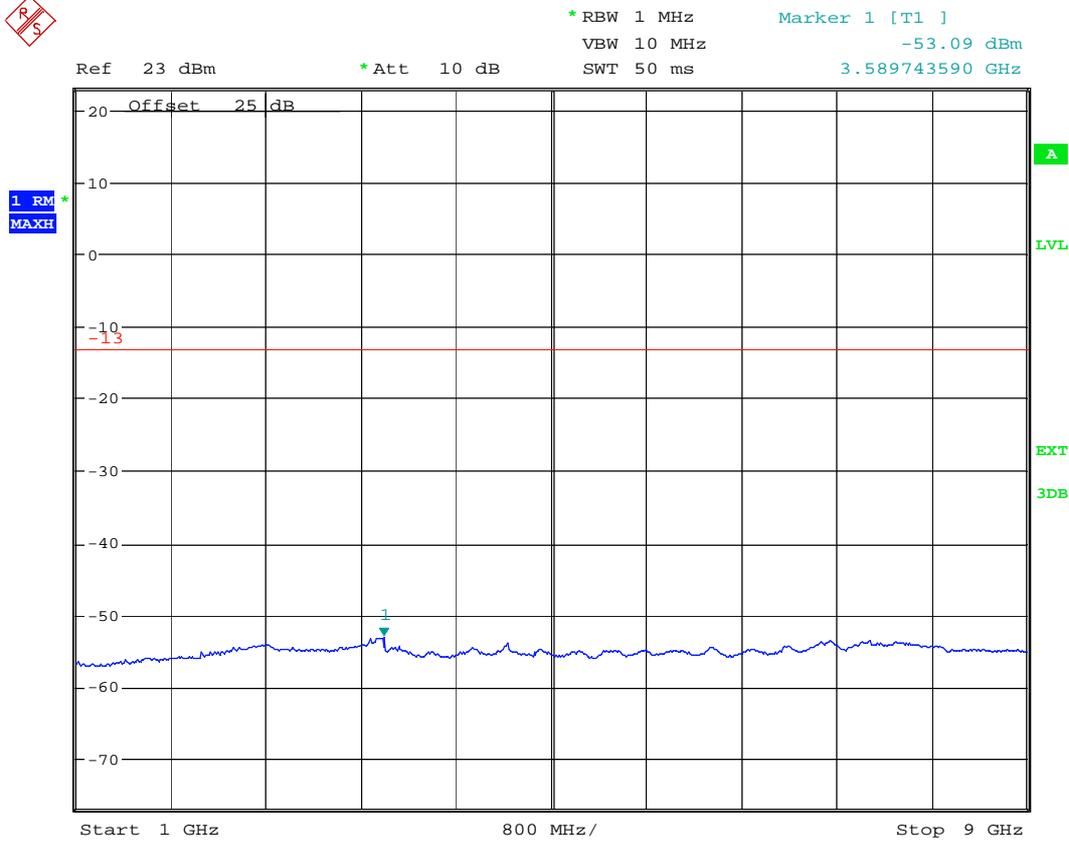
(2) TM5



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Date: 17.SEP.2009 20:07:25



Date: 17.SEP.2009 20:06:18



M



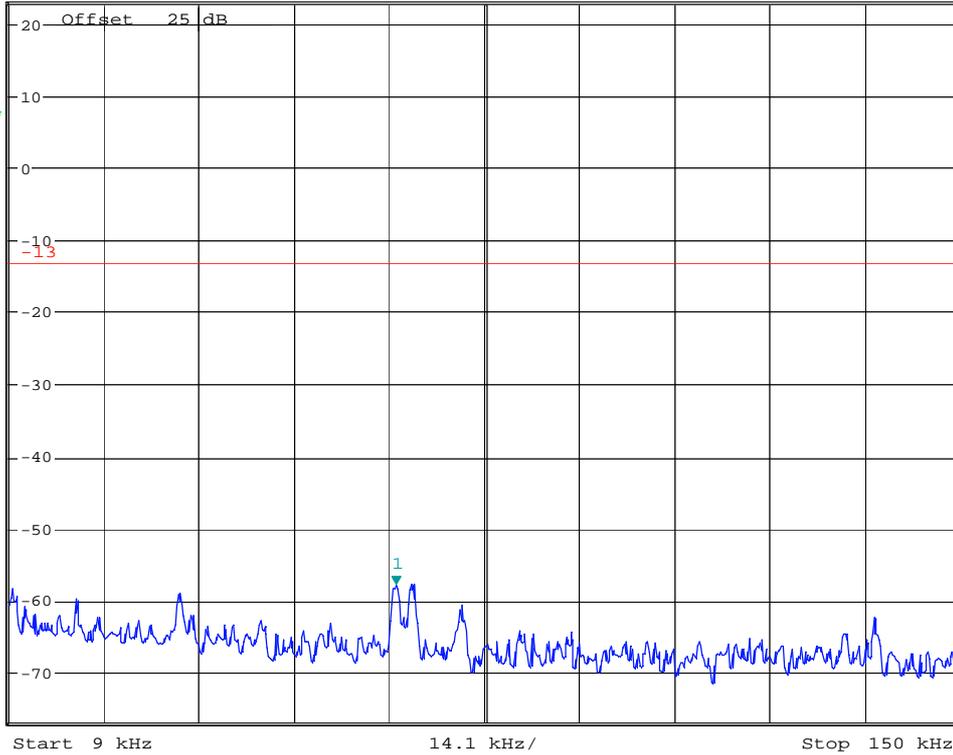
*RBW 1 kHz
VBW 10 kHz
SWT 145 ms

Marker 1 [T1]
-57.97 dBm
66.394230769 kHz

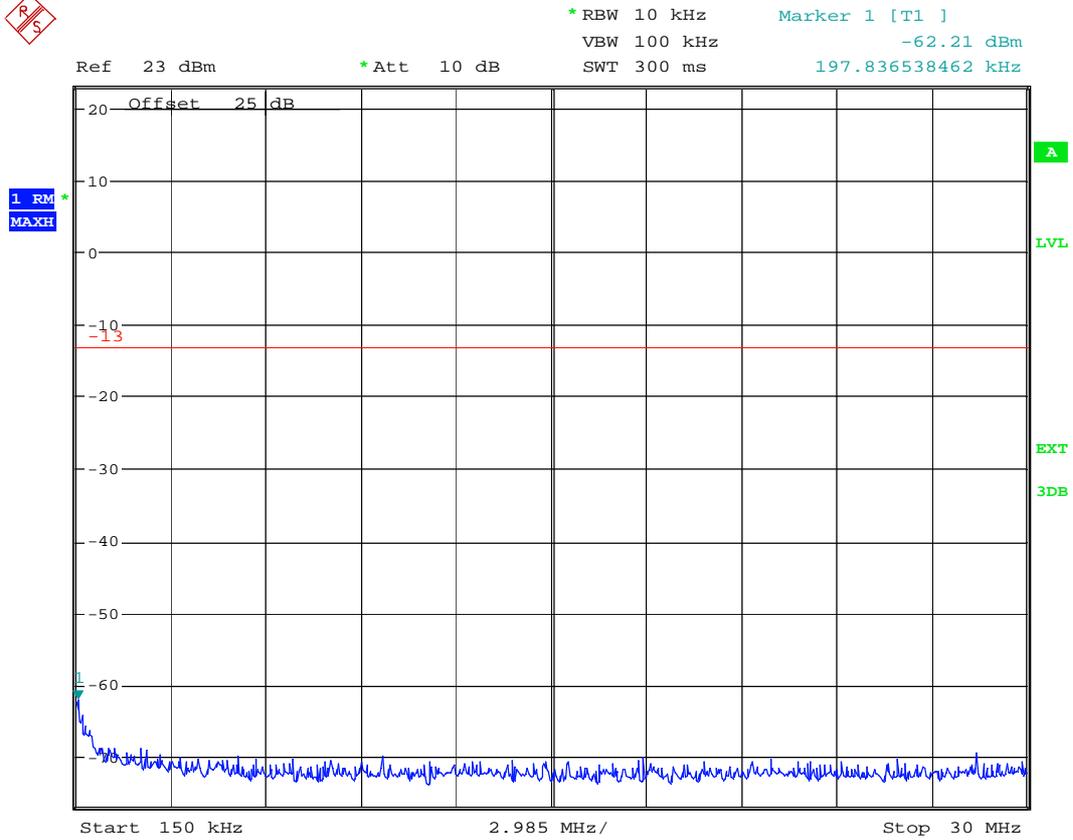
Ref 23 dBm

*Att 10 dB

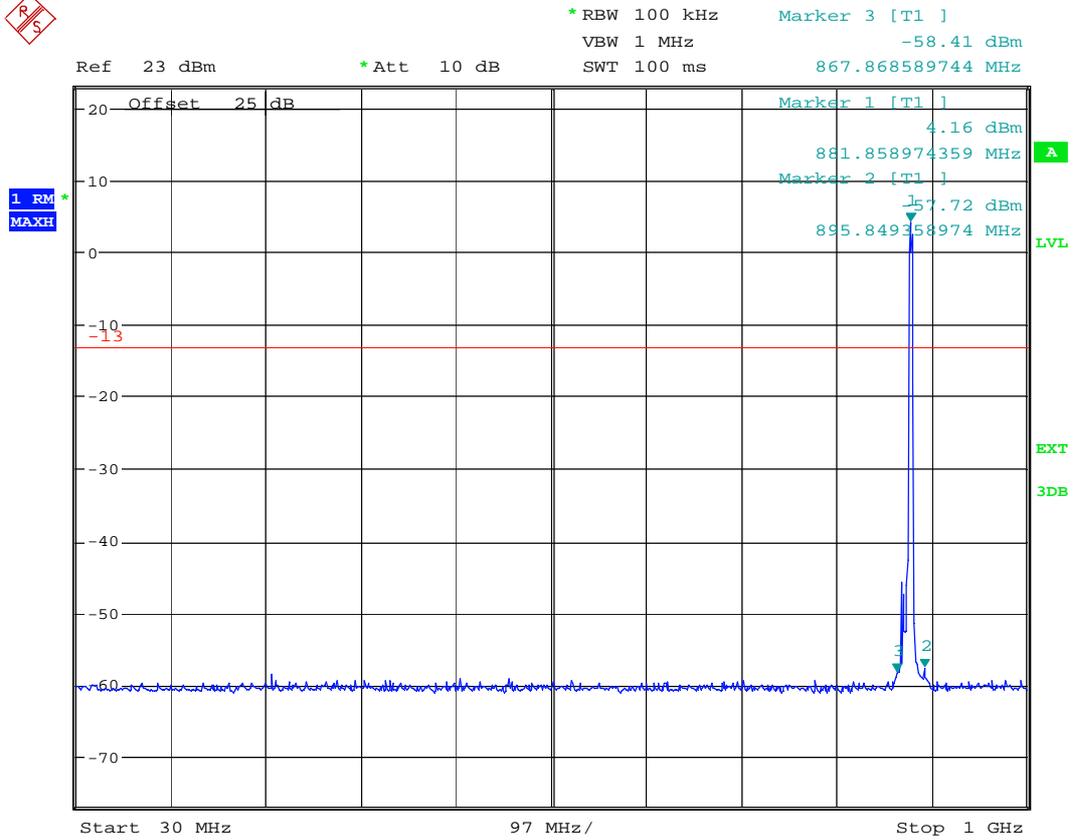
1. RM
MAXH



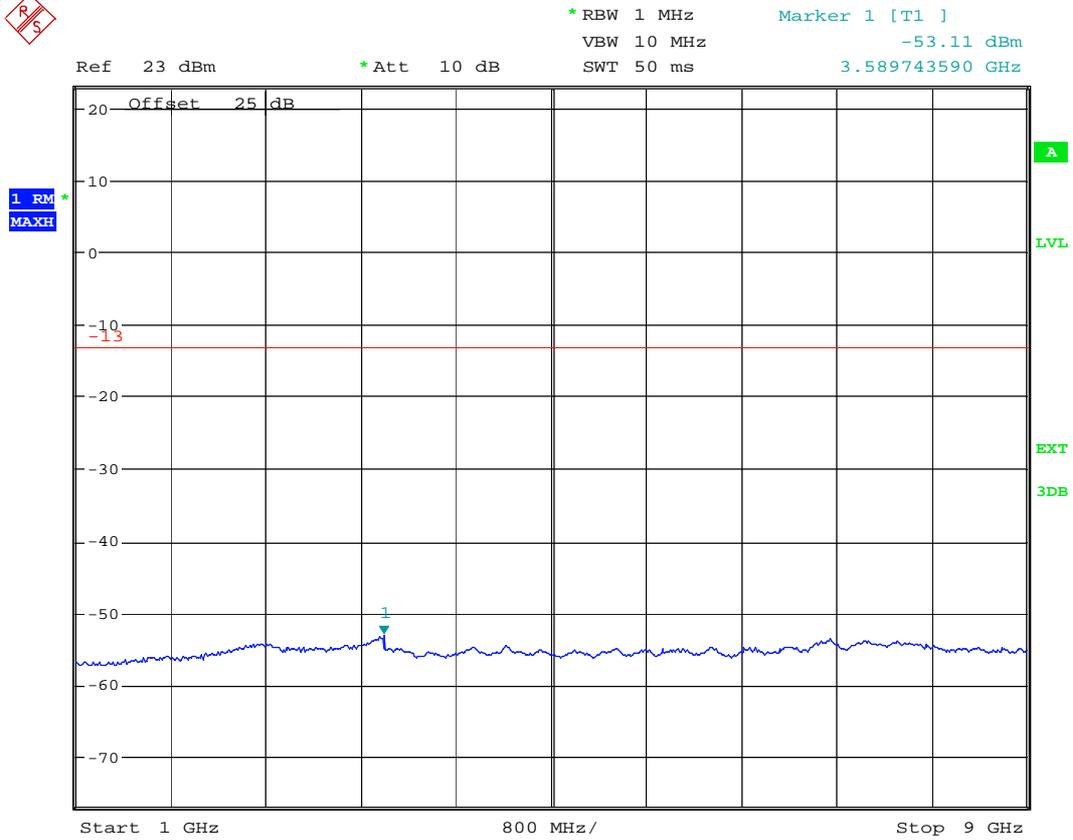
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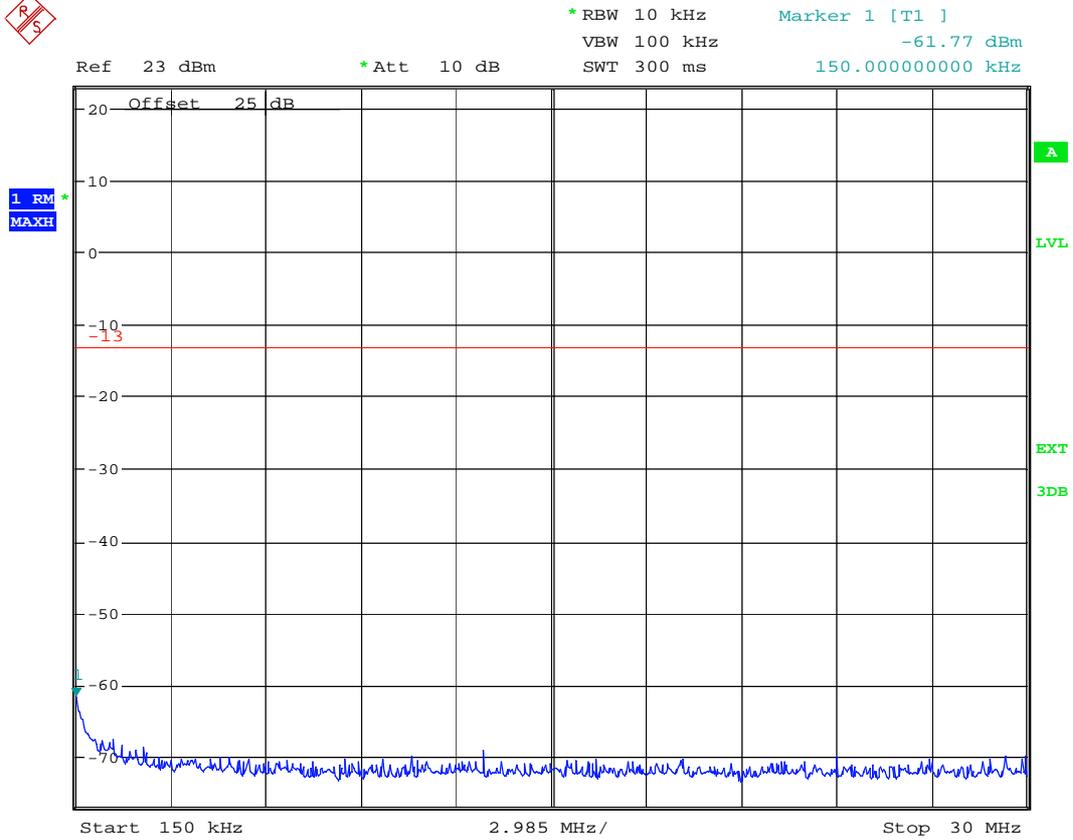
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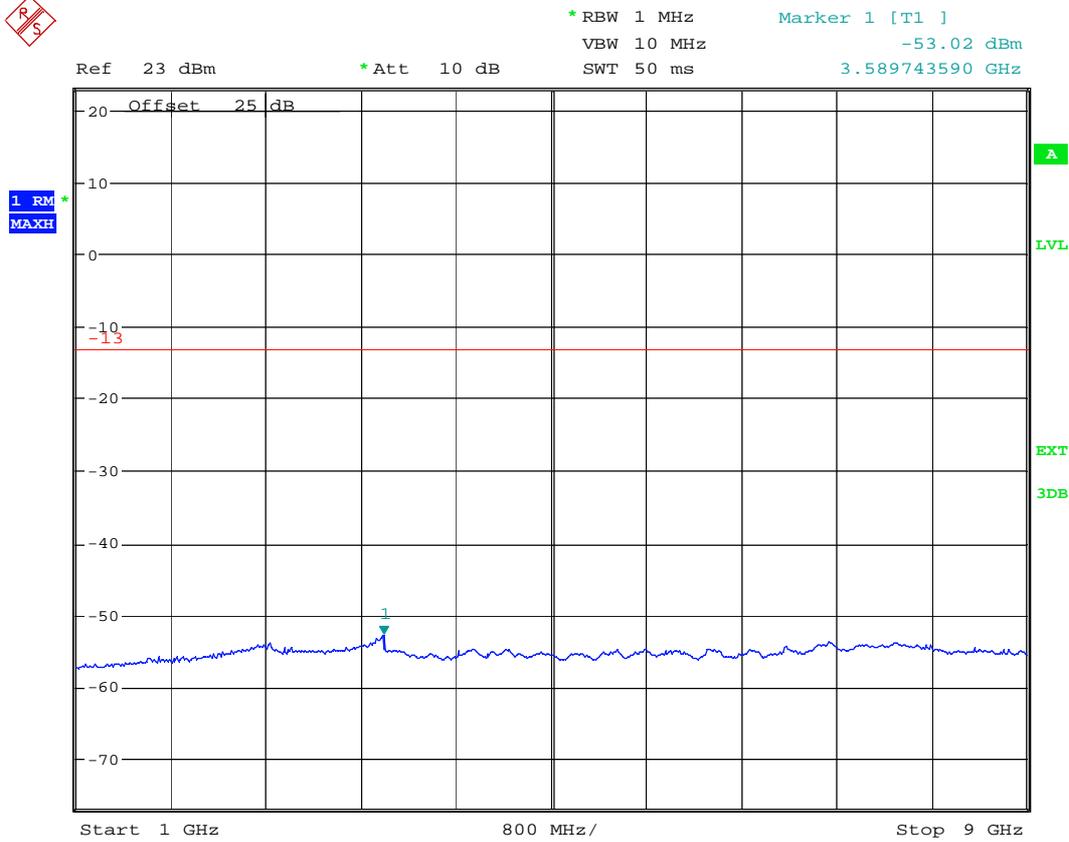
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Date: 17.SEP.2009 19:50:20



Date: 17.SEP.2009 20:19:21

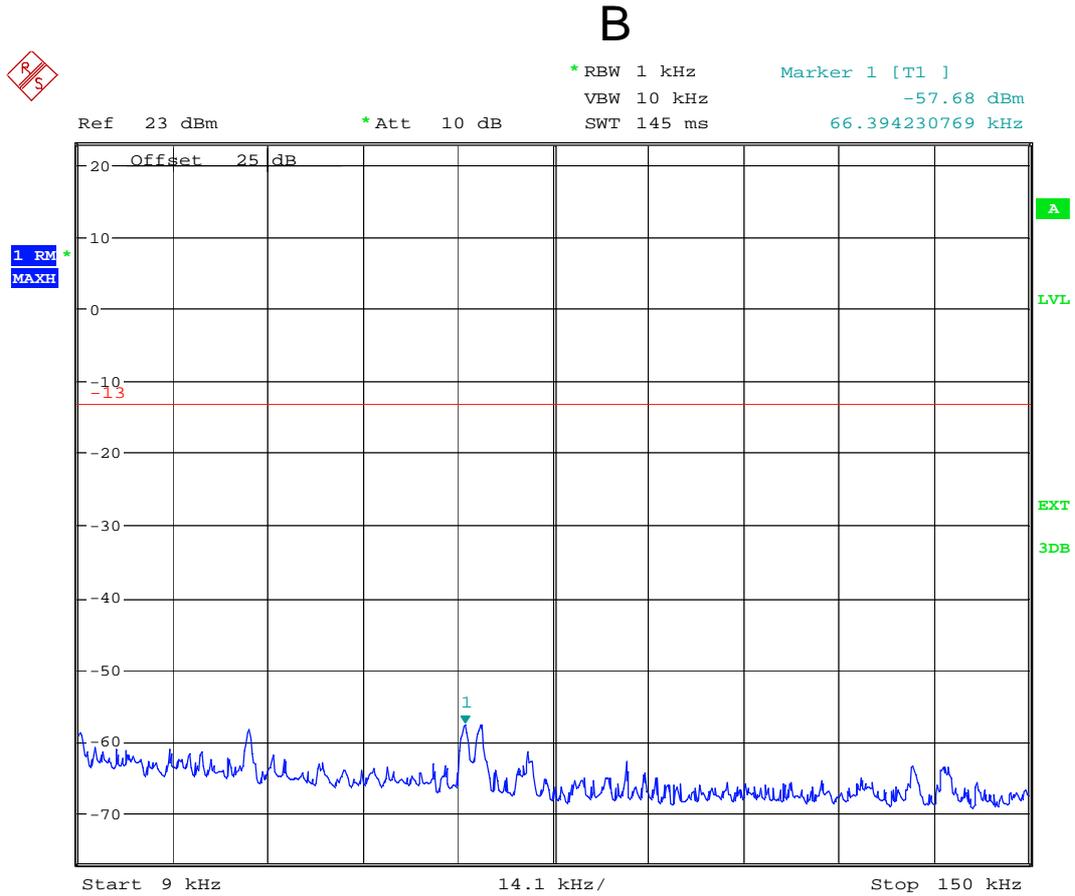


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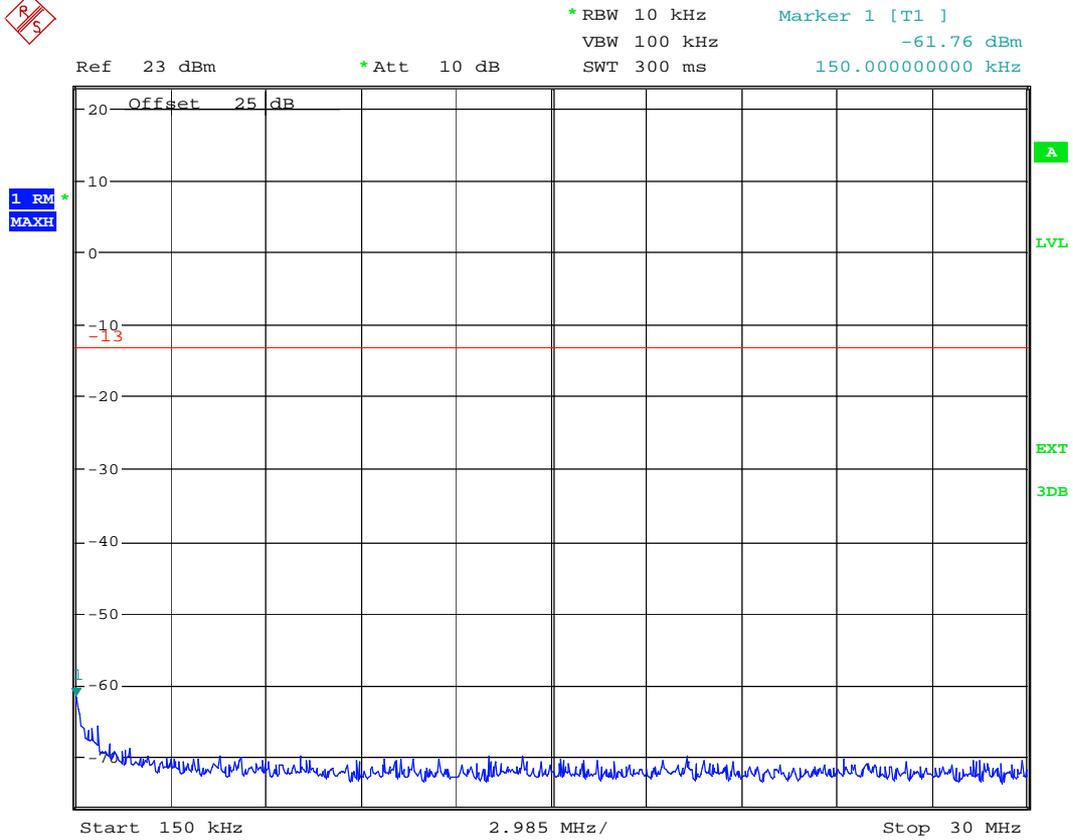


2. PCS Band

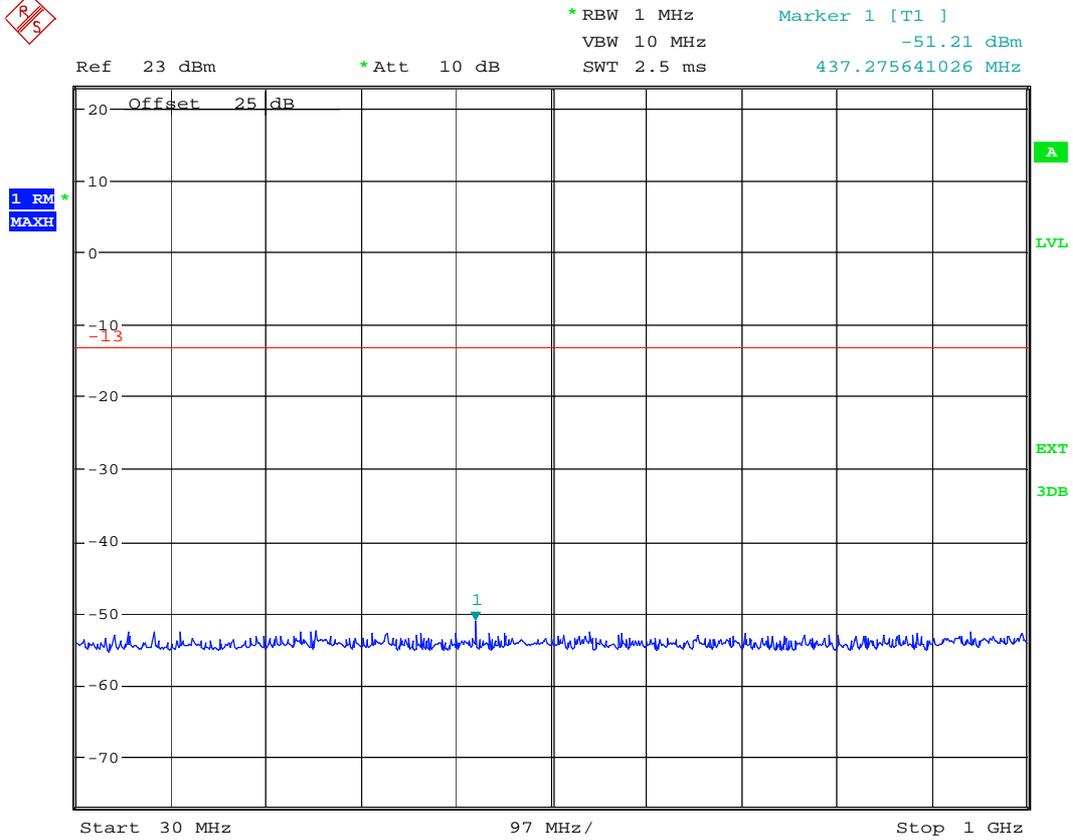
(1) TM1



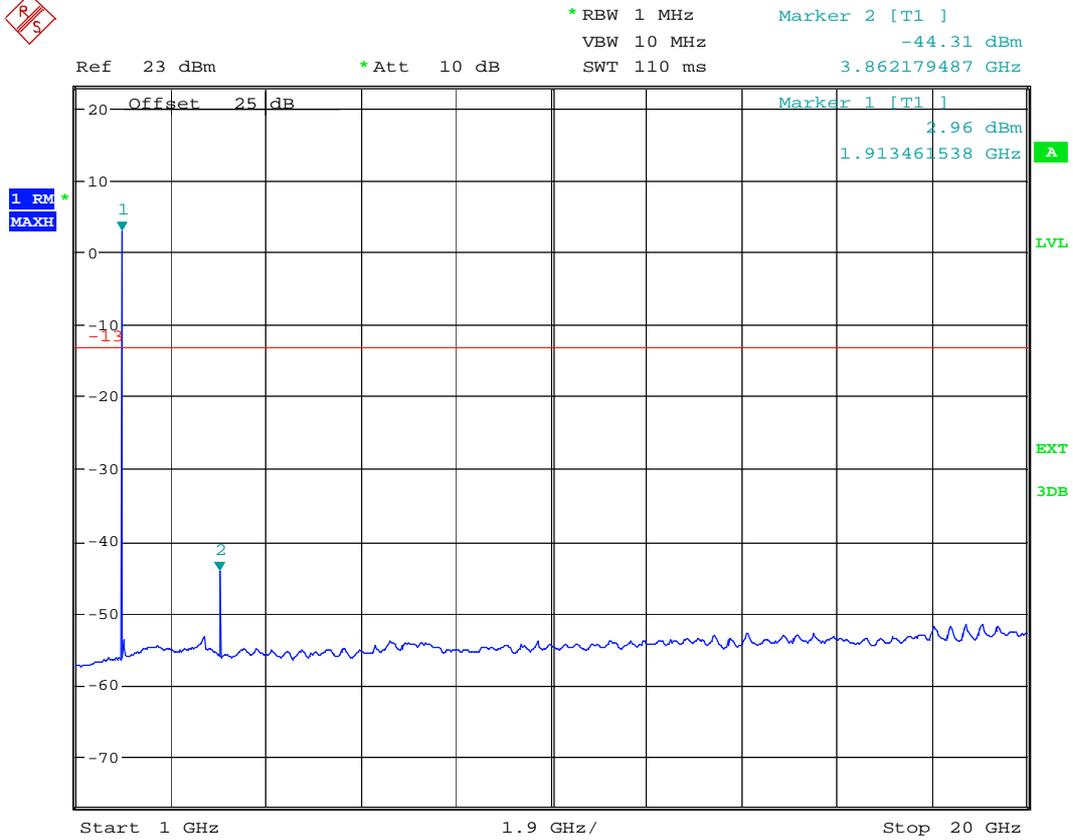
Date: 17.SEP.2009 19:16:47



Date: 17.SEP.2009 19:17:14



Date: 17.SEP.2009 19:17:40



Date: 17.SEP.2009 19:18:28



M



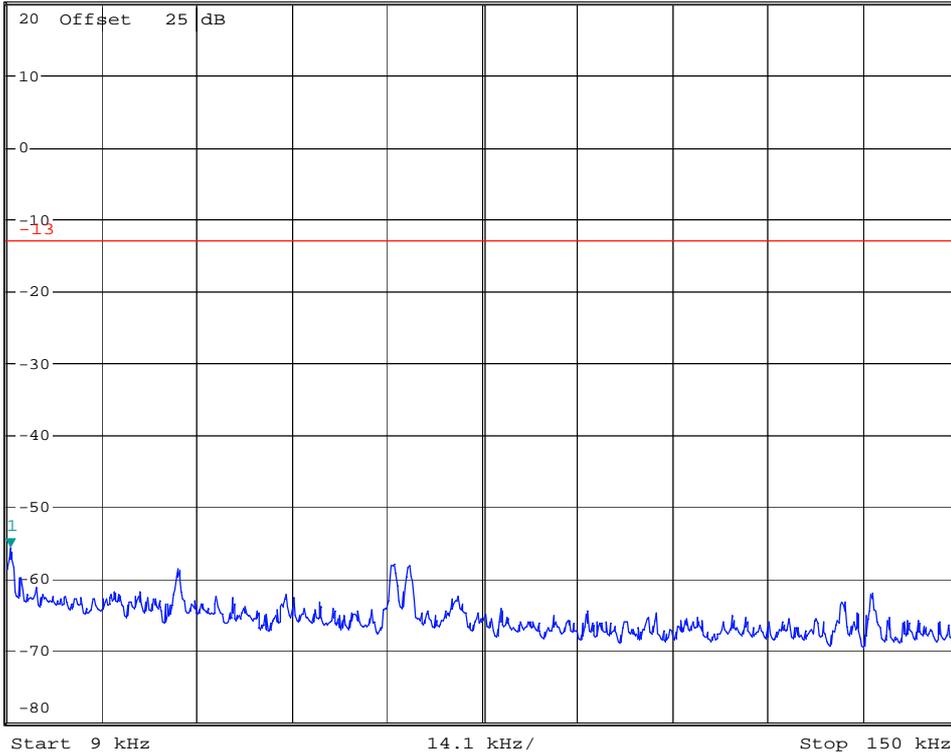
*RBW 1 kHz
VBW 10 kHz
SWT 145 ms

Marker 1 [T1]
-55.84 dBm
9.451923077 kHz

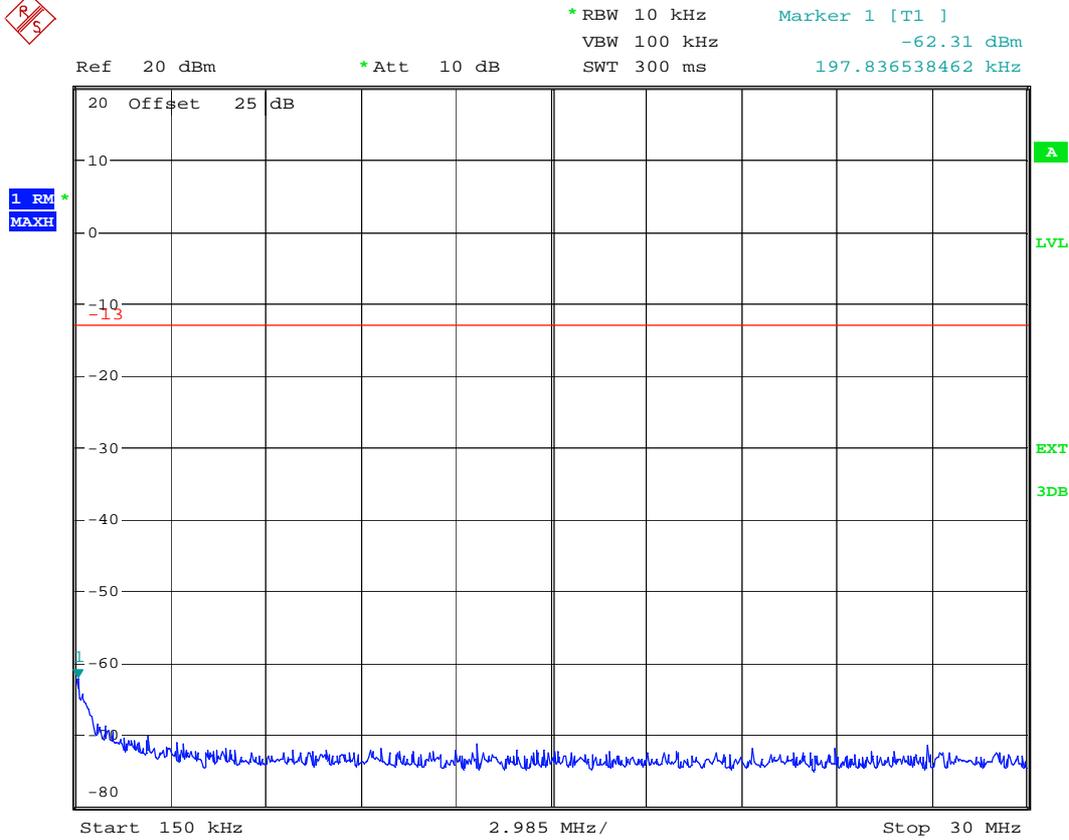
Ref 20 dBm

*Att 10 dB

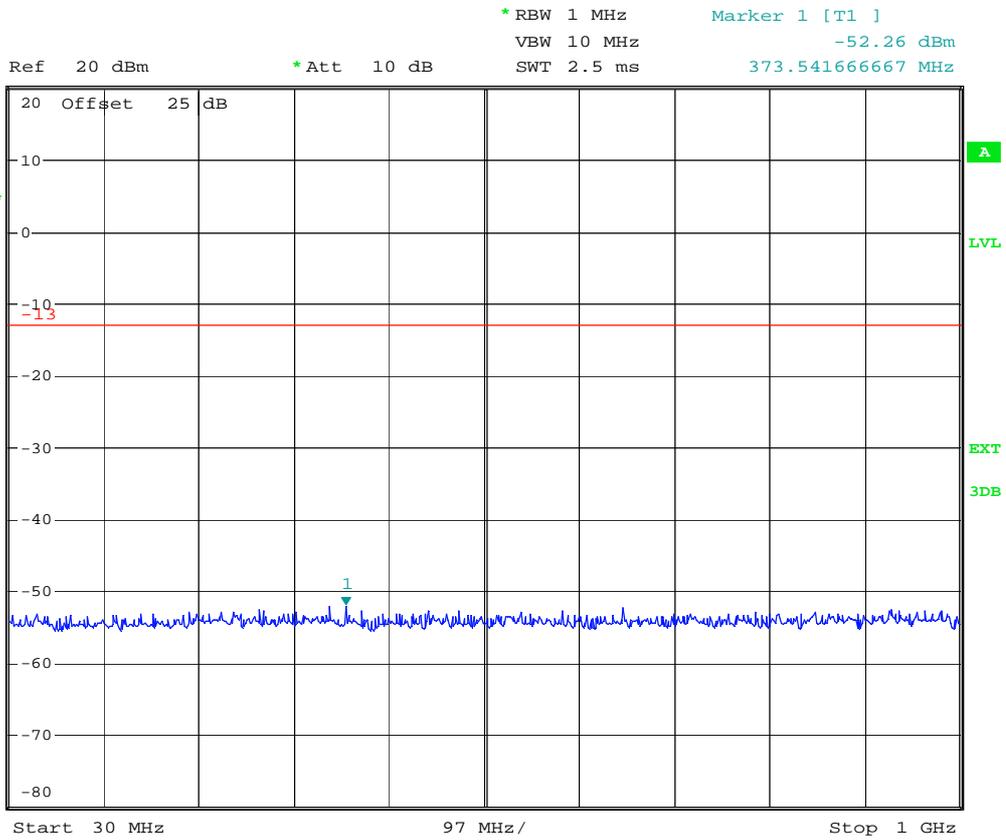
1. RM
MAXH



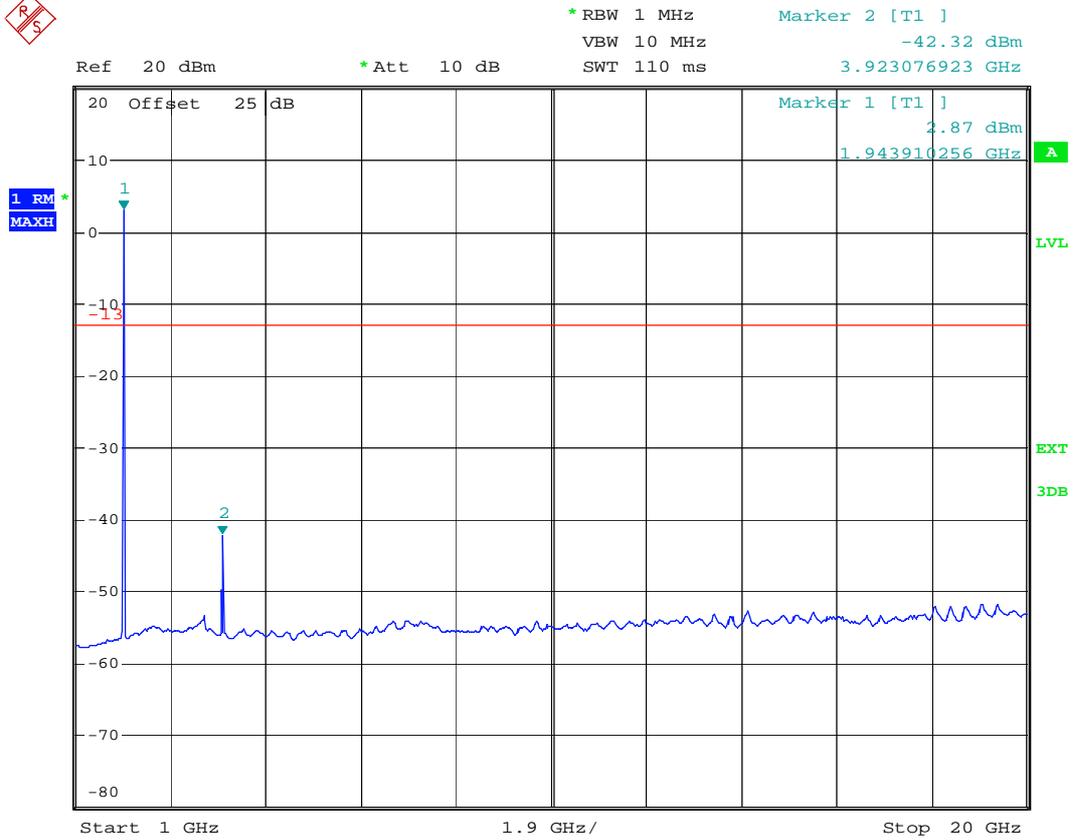
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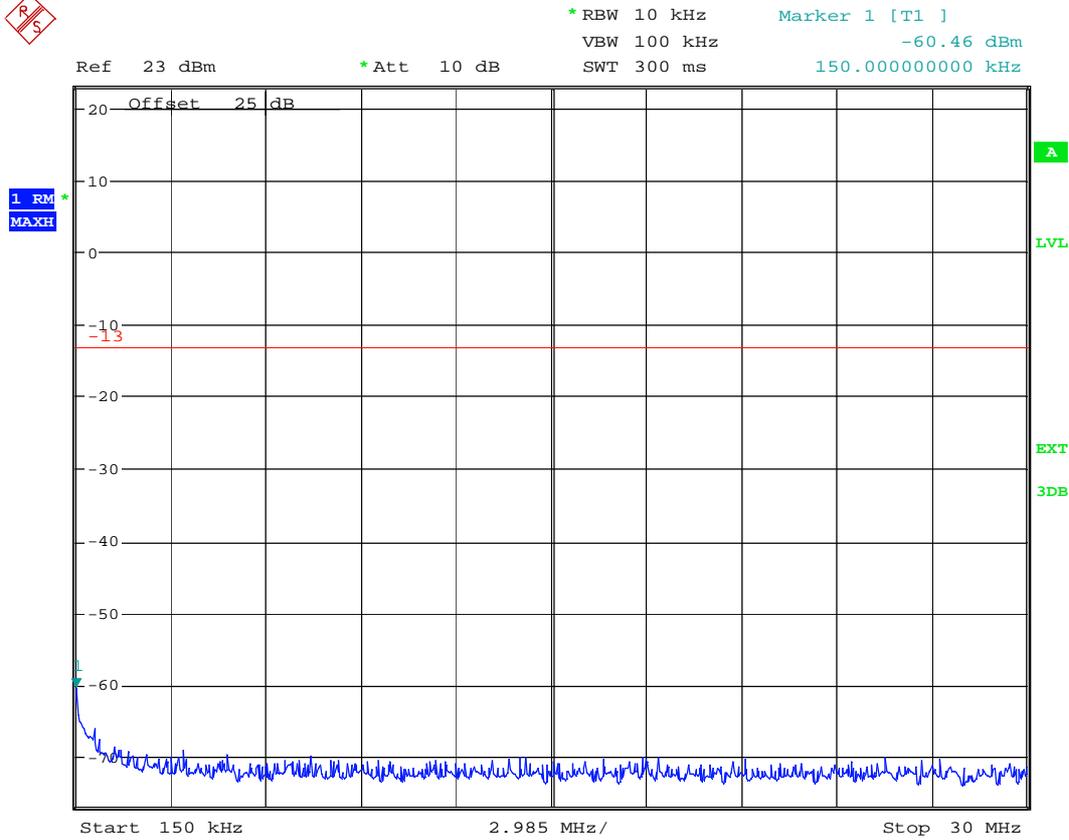
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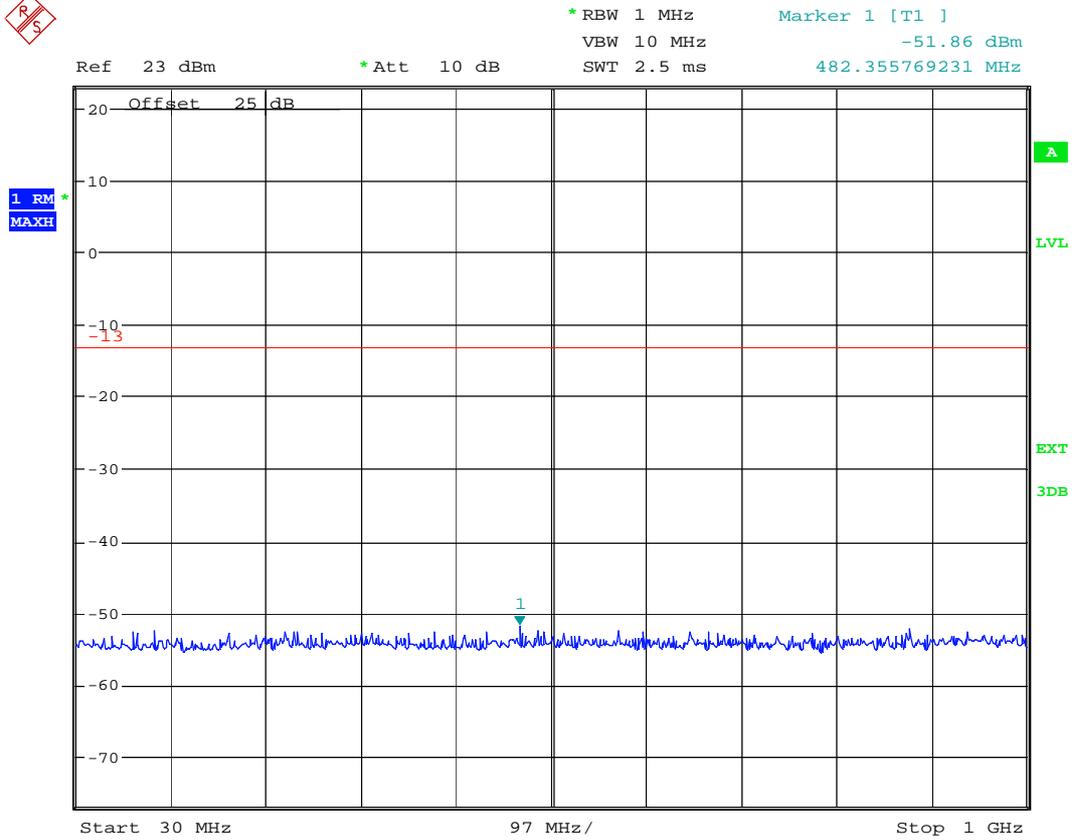
Date: 17.SEP.2009 19:03:07



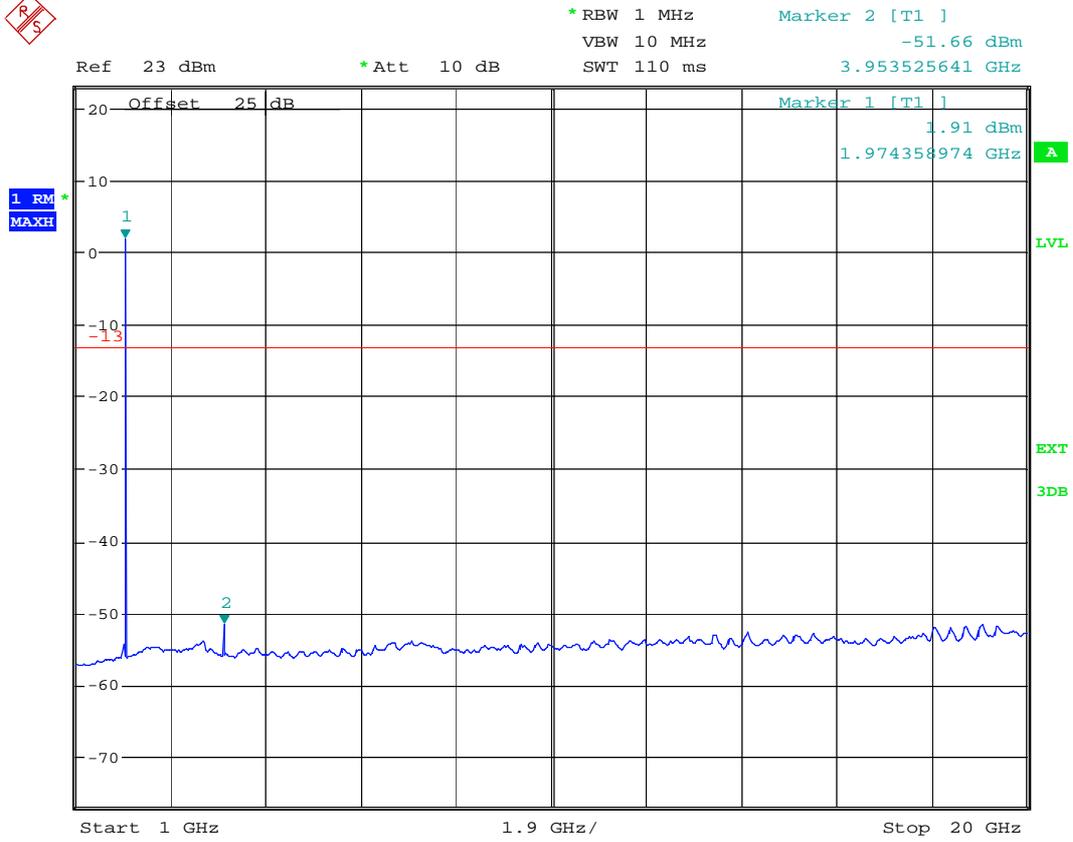
Date: 17.SEP.2009 19:03:49



Date: 17.SEP.2009 19:31:26



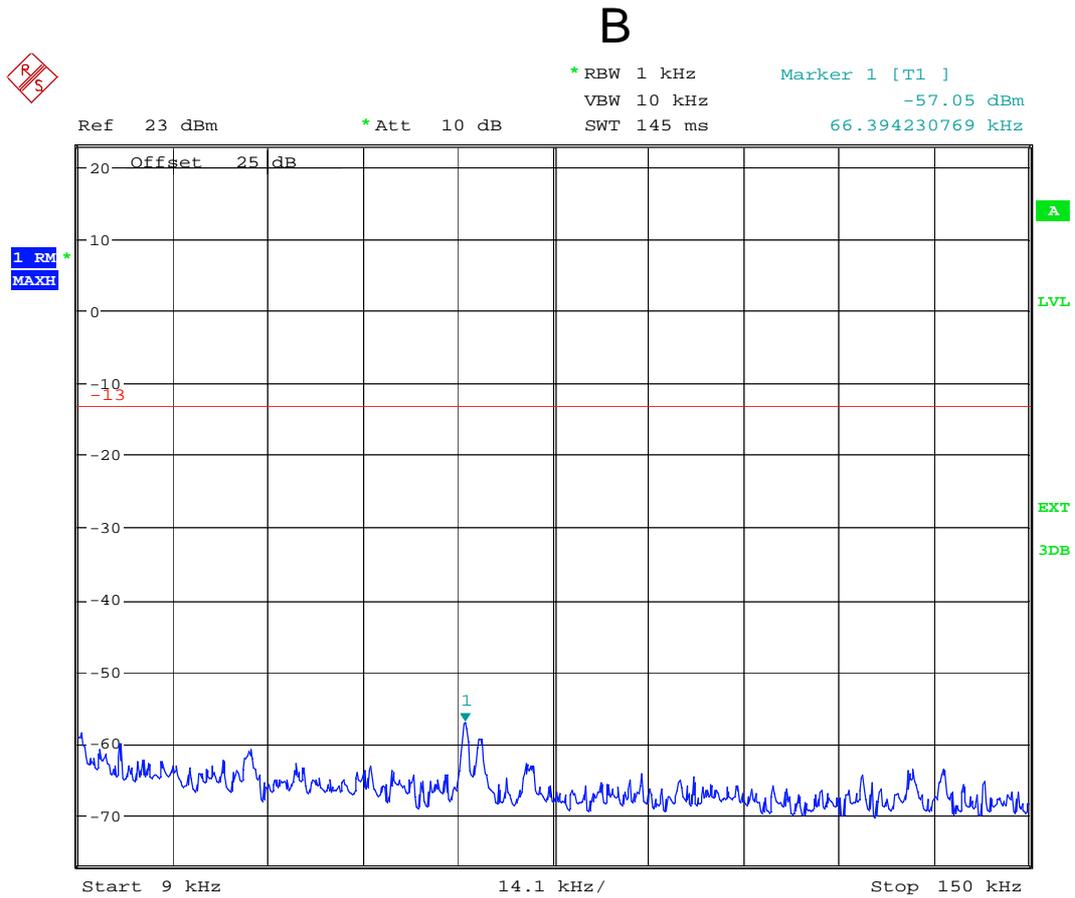
Date: 17.SEP.2009 19:31:54



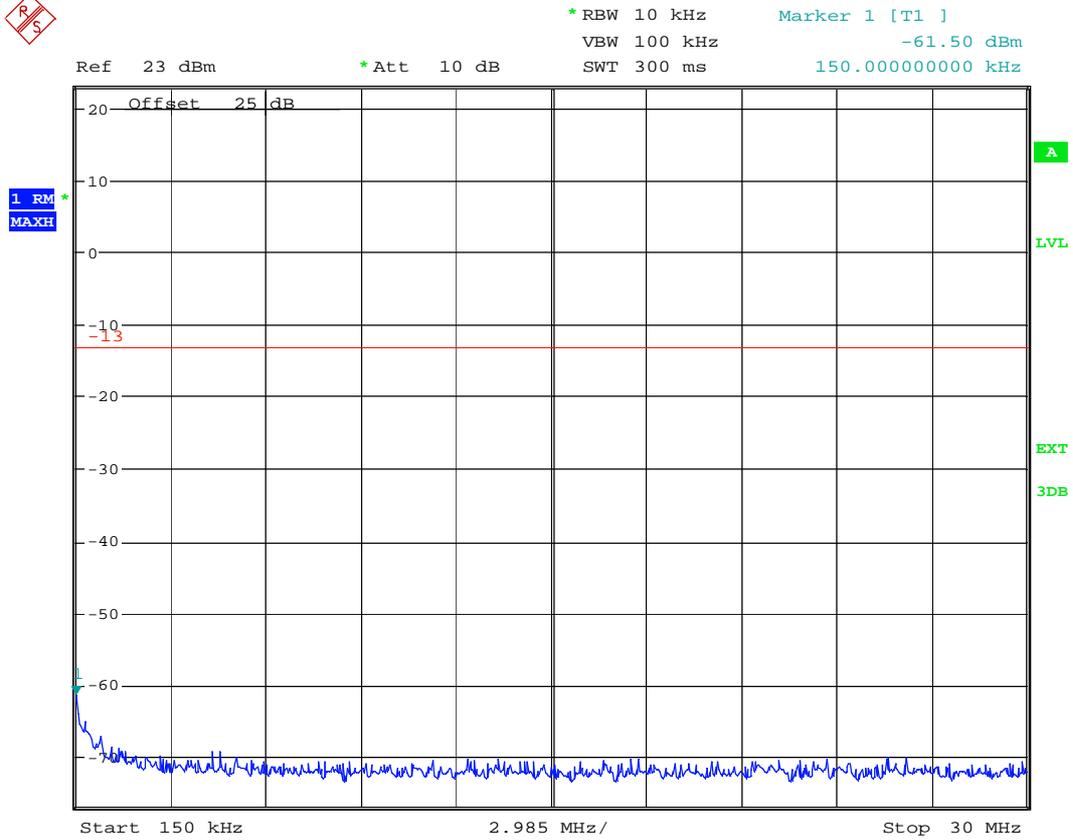
Date: 17.SEP.2009 19:33:05



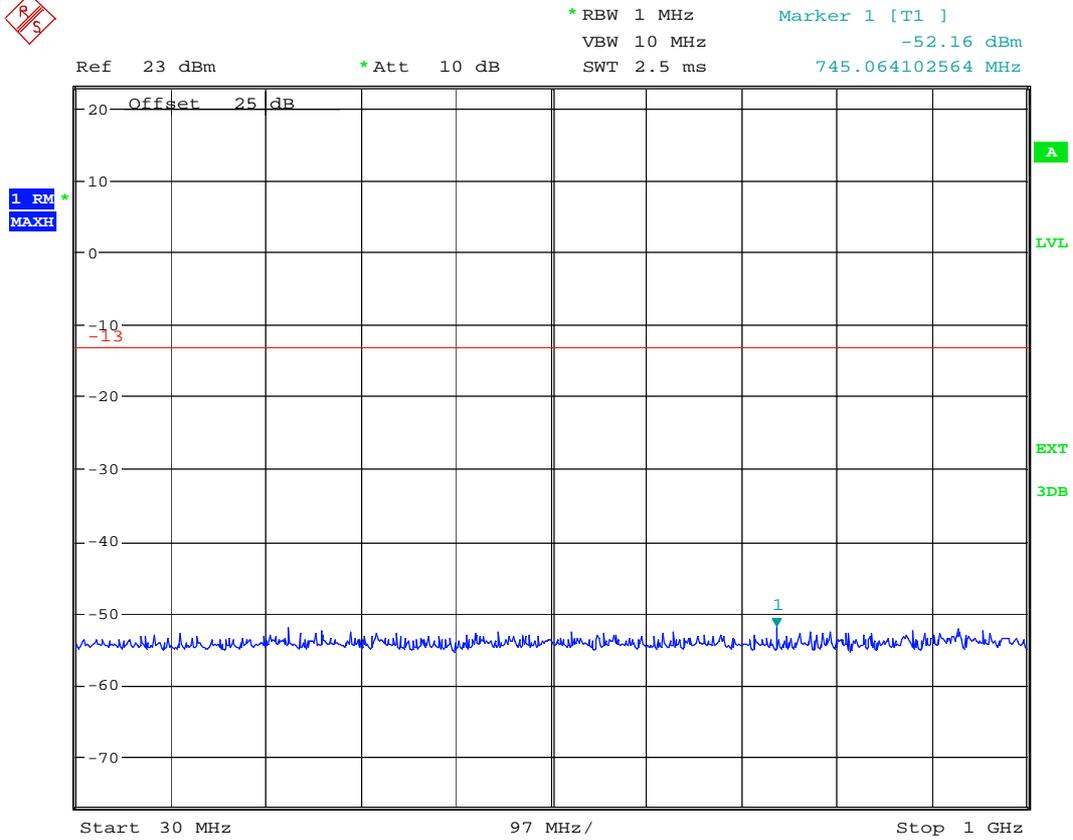
(2) TM5



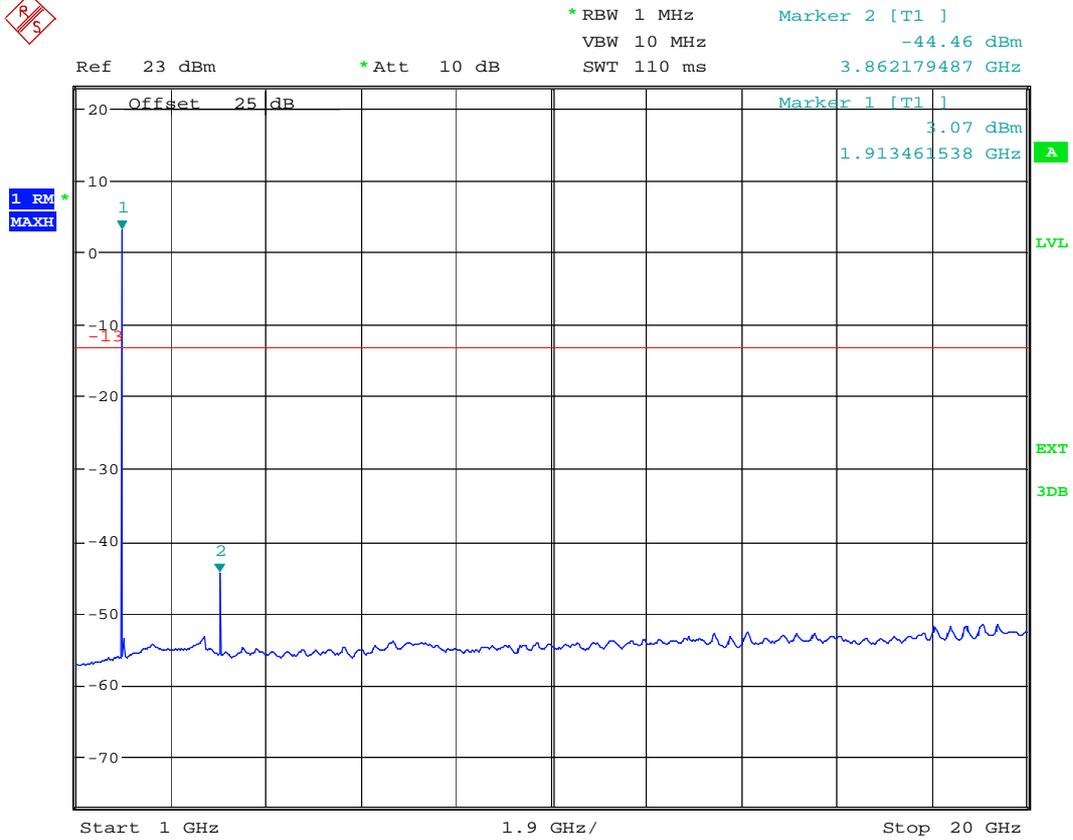
Date: 17.SEP.2009 19:22:13



Date: 17.SEP.2009 19:21:51



Date: 17.SEP.2009 19:21:25



Date: 17.SEP.2009 19:21:03



M



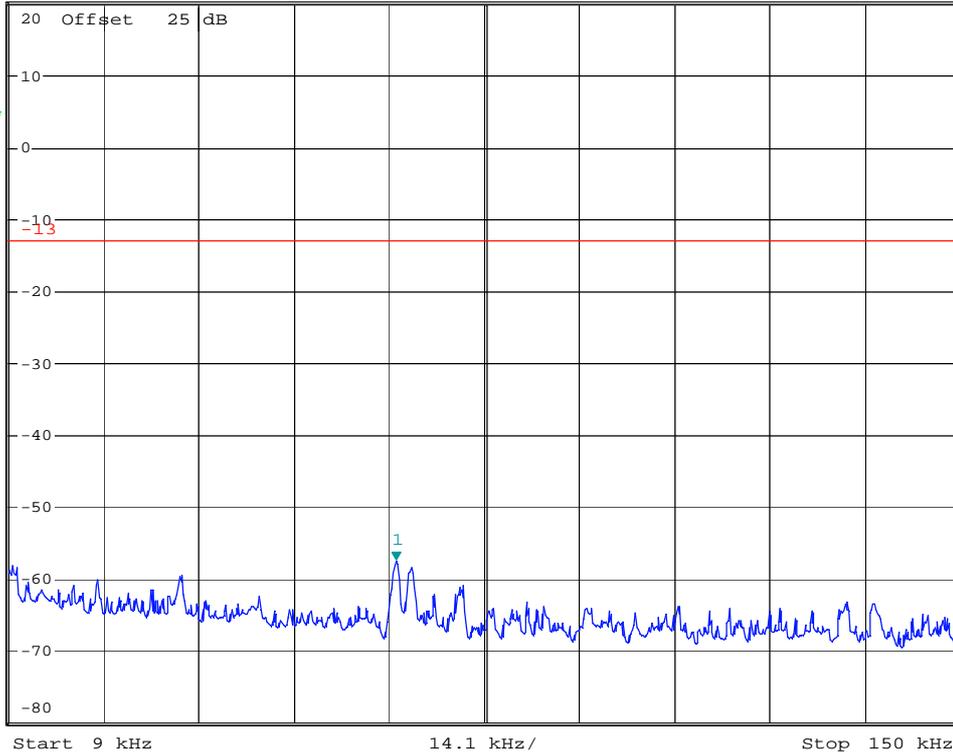
*RBW 1 kHz
VBW 10 kHz
SWT 145 ms

Marker 1 [T1]
-57.66 dBm
66.394230769 kHz

Ref 20 dBm

*Att 10 dB

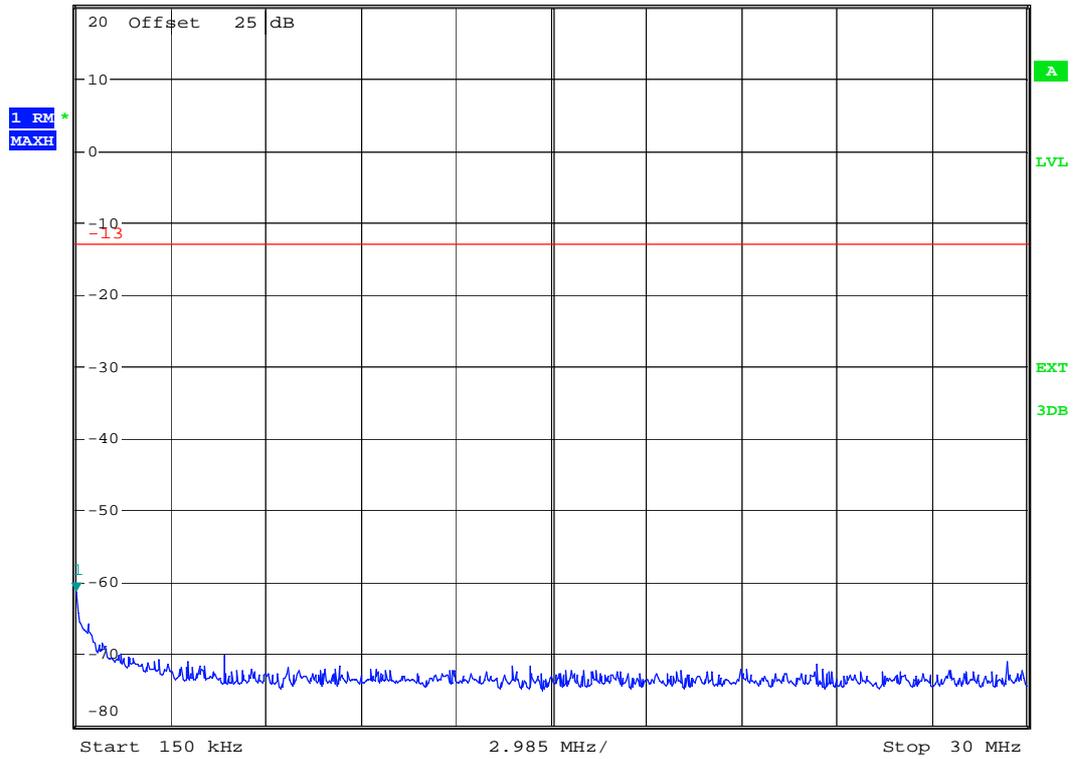
1. RM
MAXH



Date: 17.SEP.2009 19:08:18



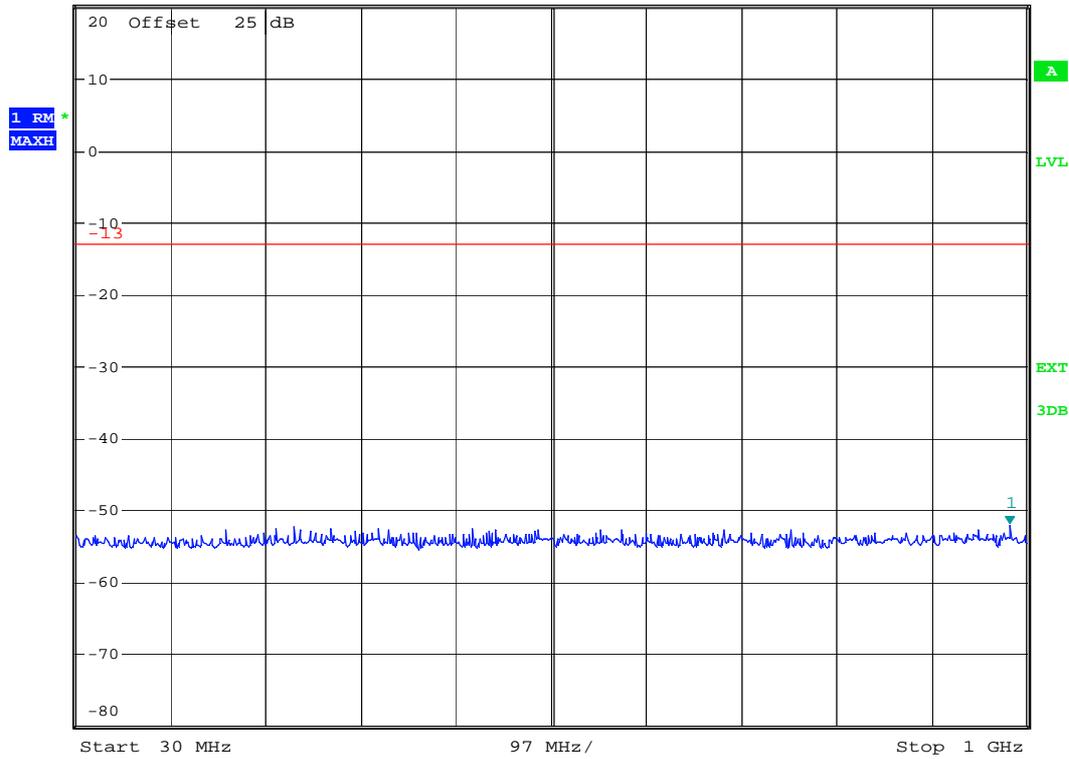
Ref 20 dBm *Att 10 dB *RBW 10 kHz Marker 1 [T1]
Offset 25 dB VBW 100 kHz -61.32 dBm
SWT 300 ms 150.00000000 kHz



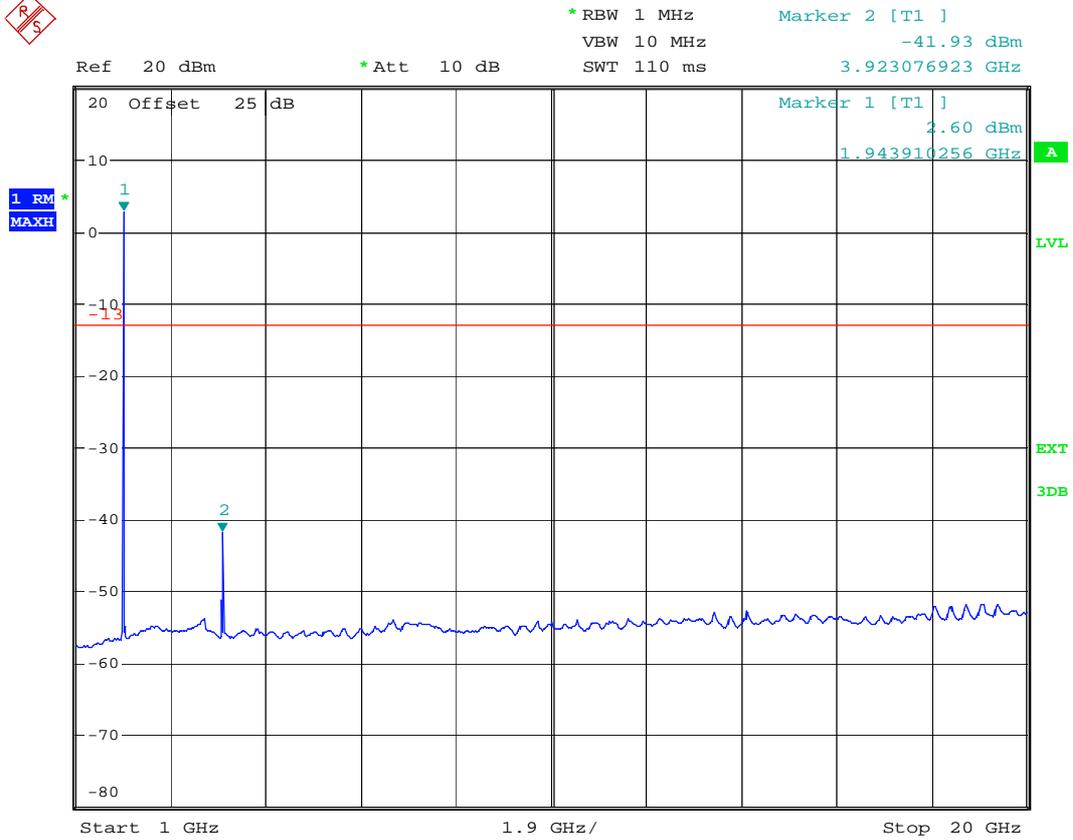
Date: 17.SEP.2009 19:07:43



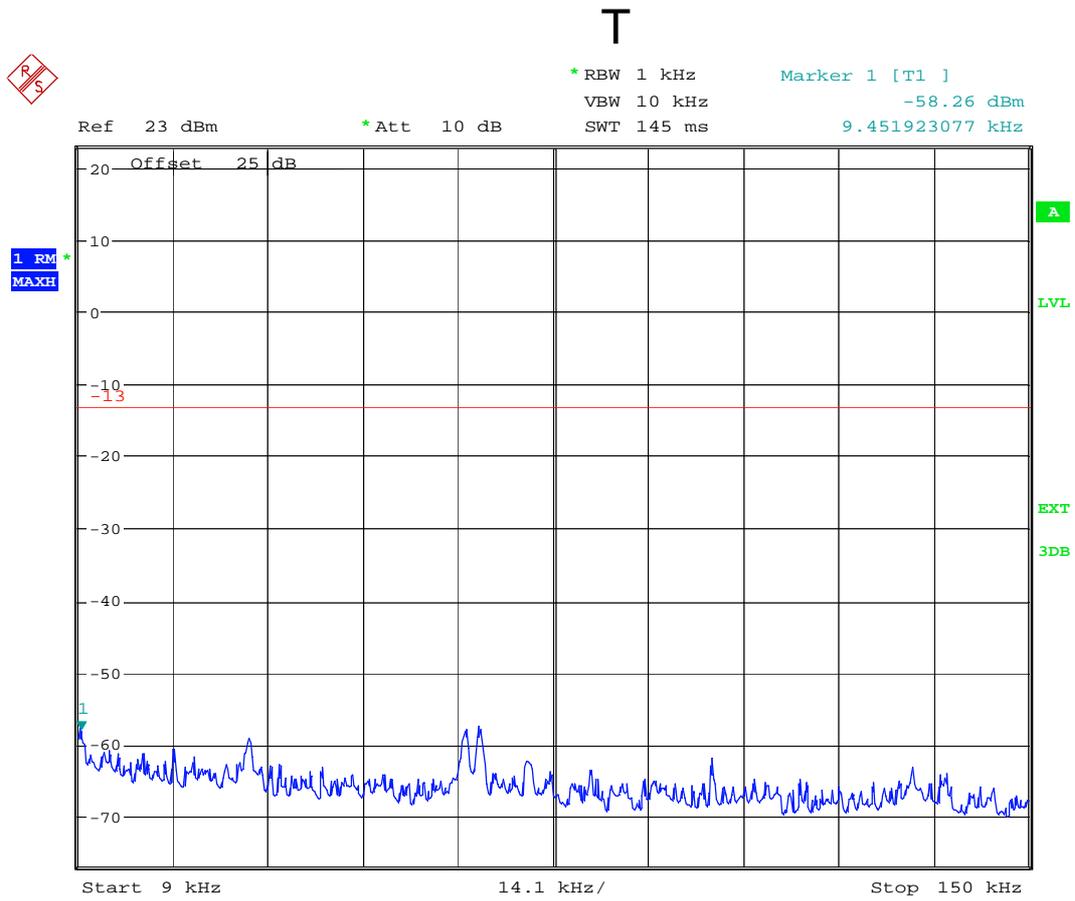
Ref 20 dBm * Att 10 dB * RBW 1 MHz Marker 1 [T1]
Offset 25 dB VBW 10 MHz -52.26 dBm
SWT 2.5 ms 982.900641026 MHz



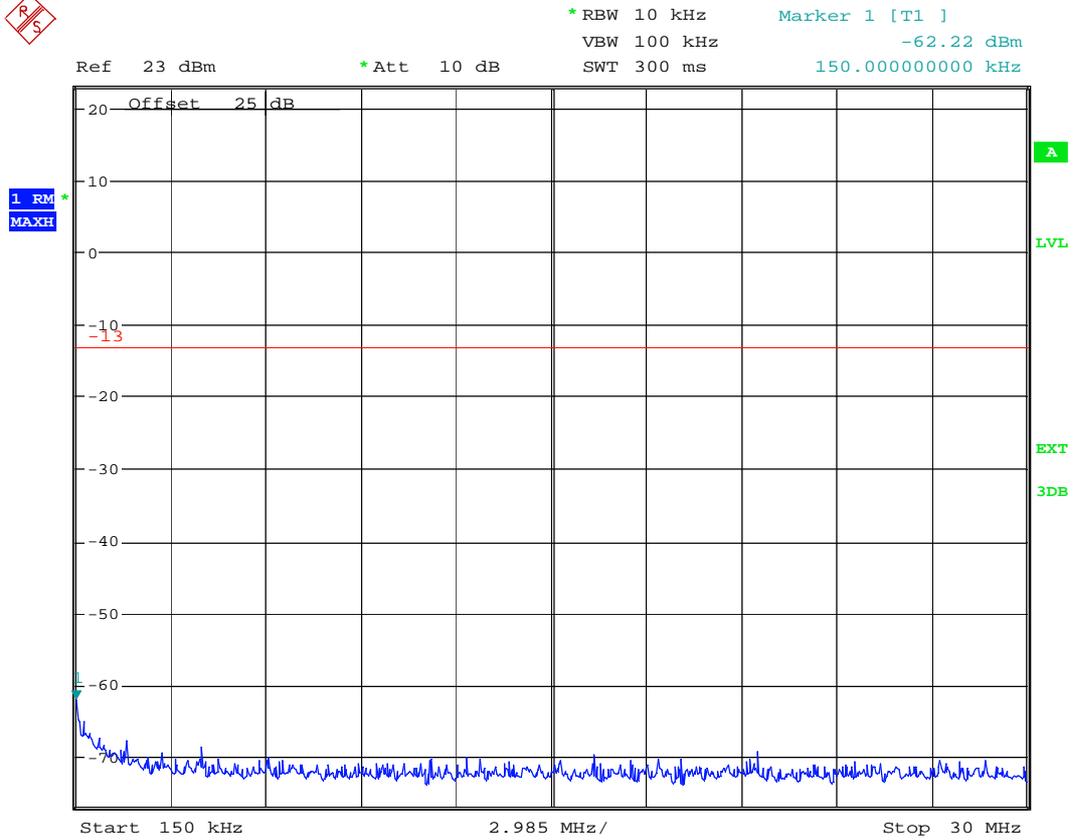
Date: 17.SEP.2009 19:06:56



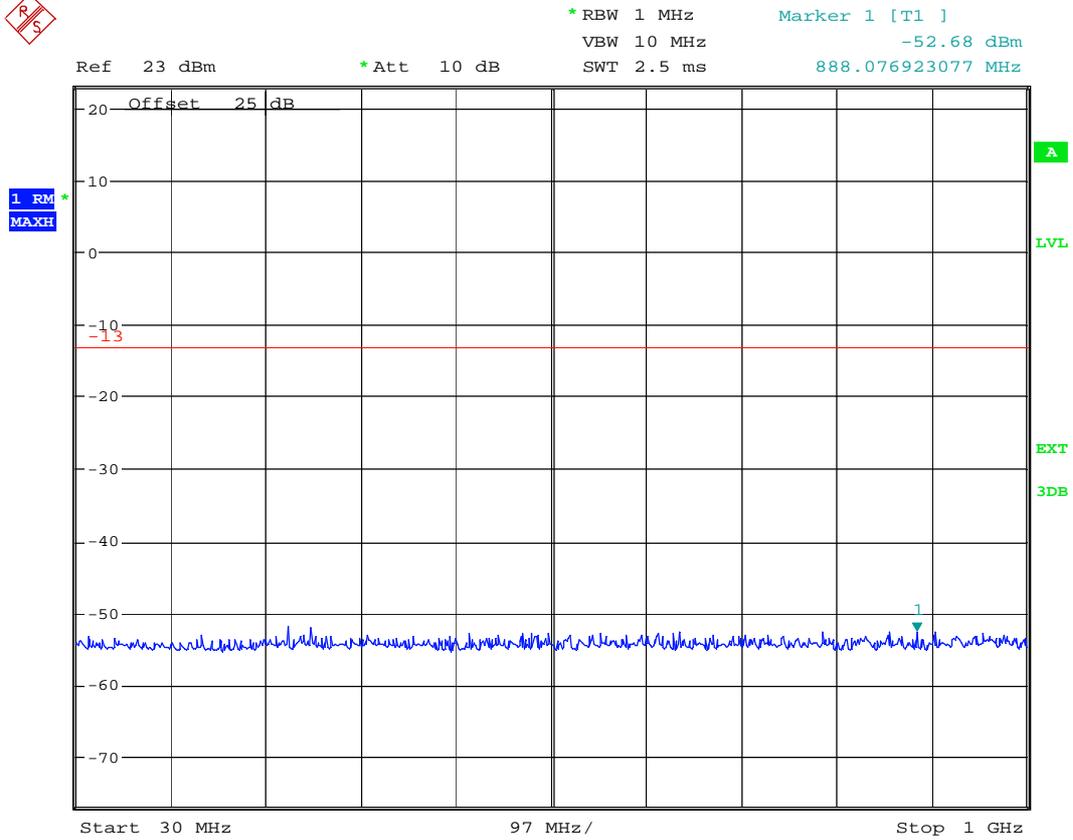
Date: 17.SEP.2009 19:06:26



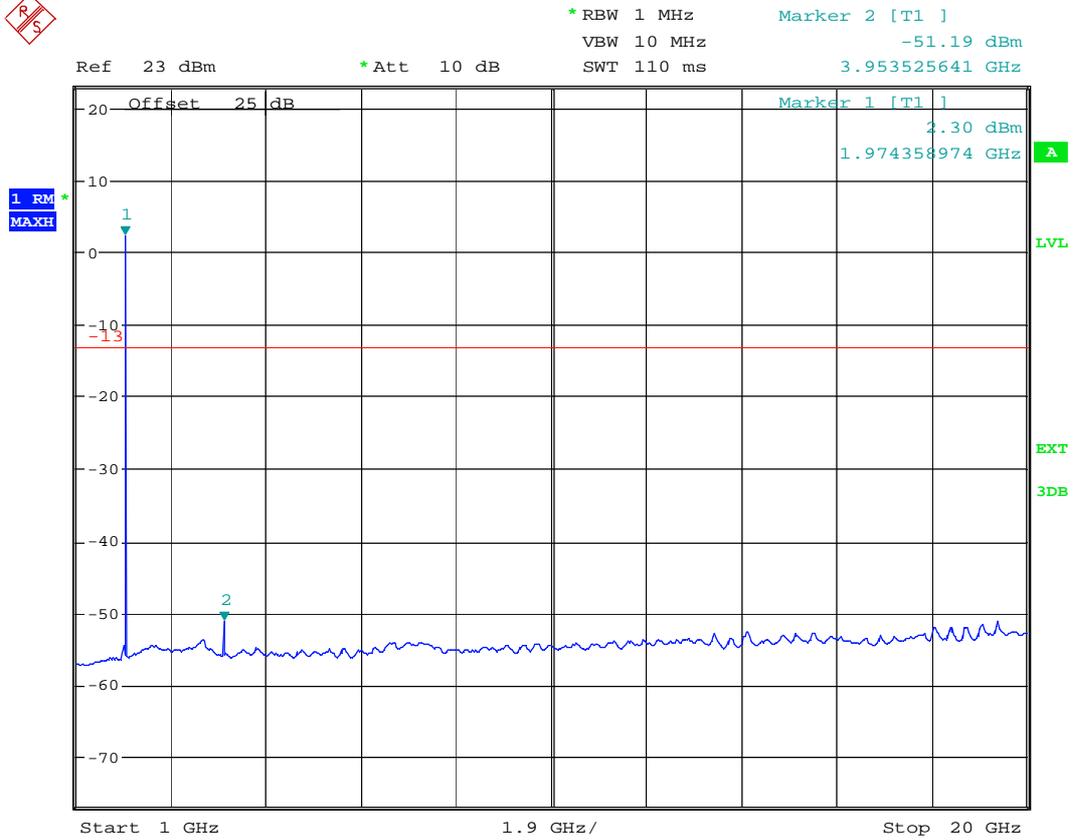
Date: 17.SEP.2009 19:36:11



Date: 17.SEP.2009 19:35:49



Date: 17.SEP.2009 19:35:28



Date: 17.SEP.2009 19:35:11



Appendix F

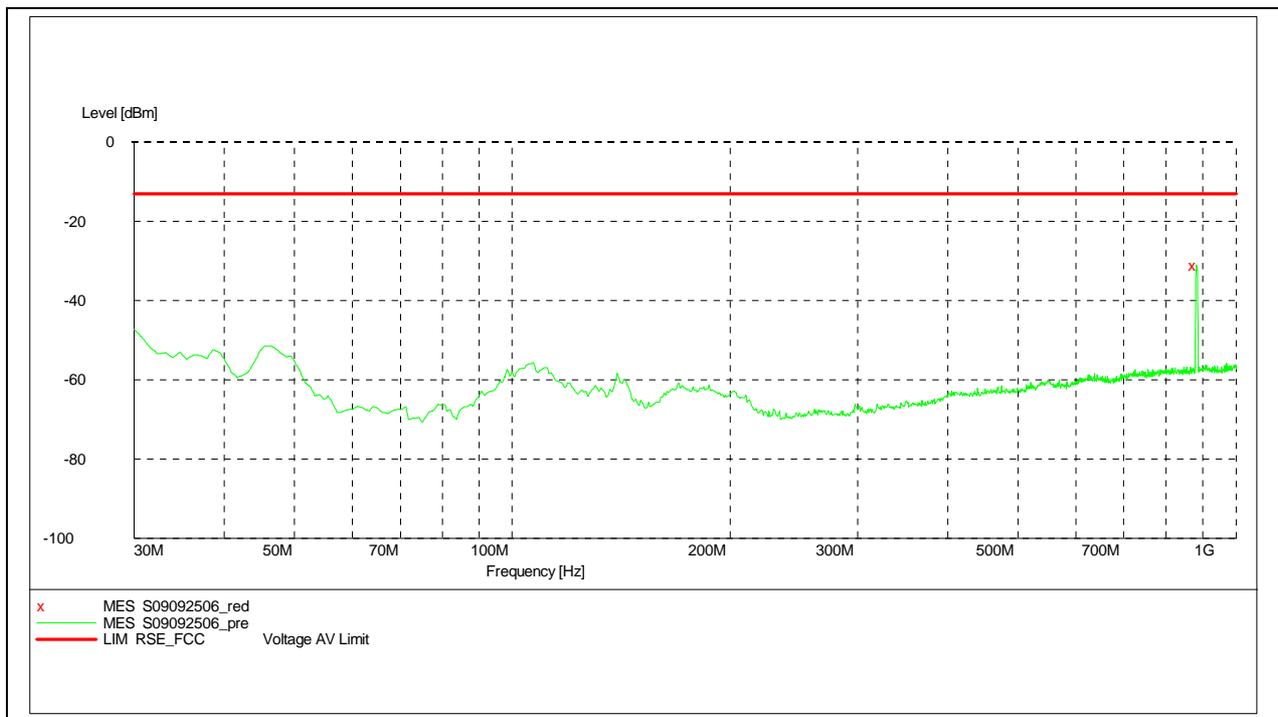
Field Strength of Spurious Radiation Measurement

According to FCC part 2.1053 and part 22.917
According to FCC part 2.1053 and part 24.238

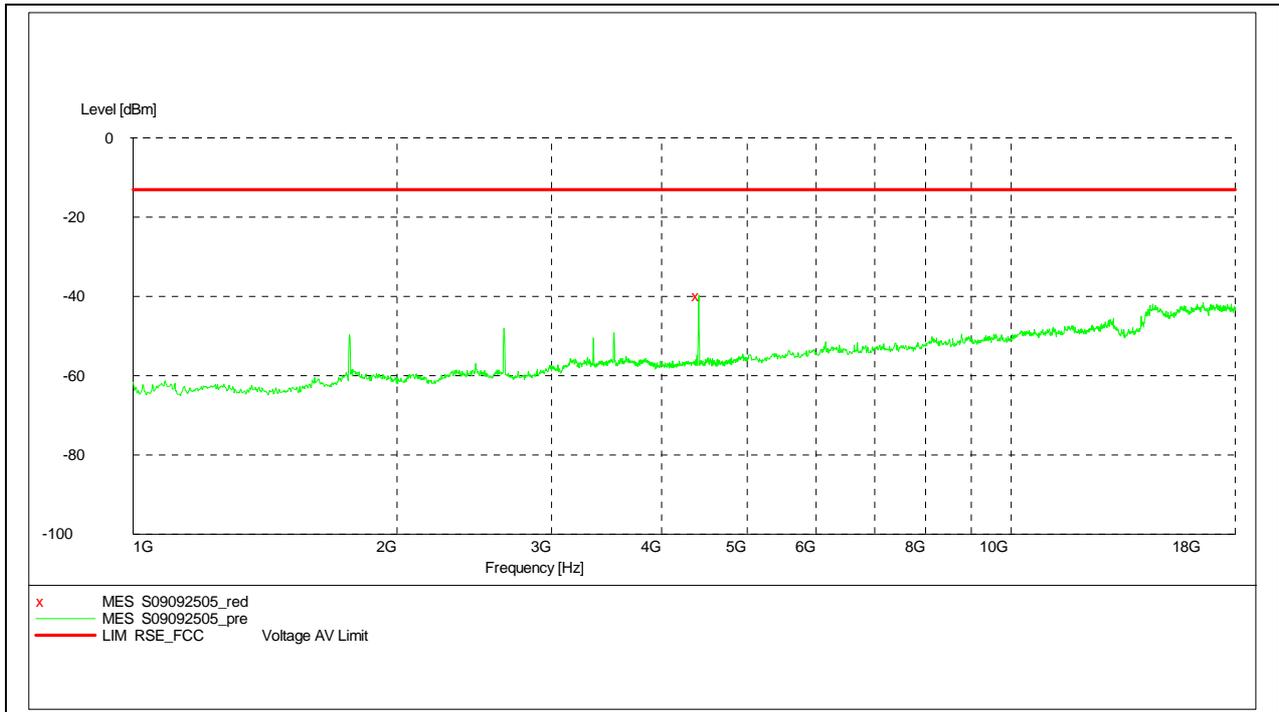
NOTE: a limit line that is stringent than FCC limit (-13dBm) is used in plot(s).

1. Cellular Band:

(1) Below 1GHz:



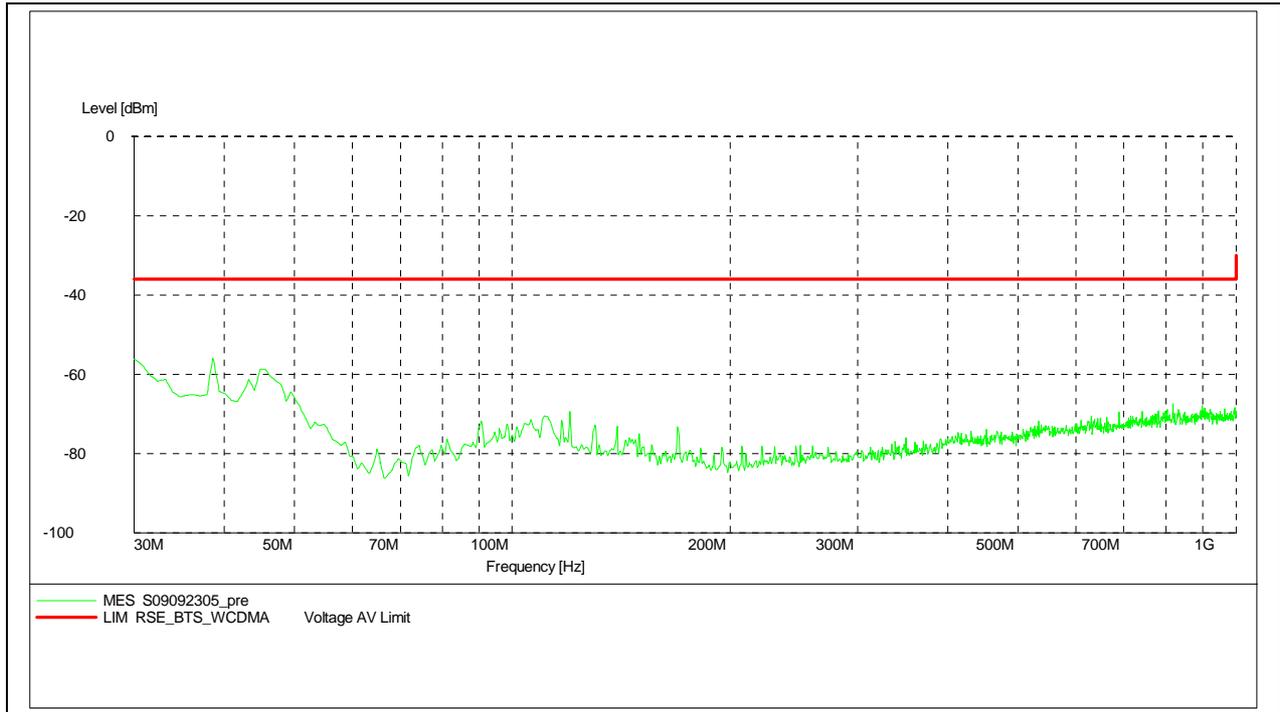
(2) Above 1GHz:



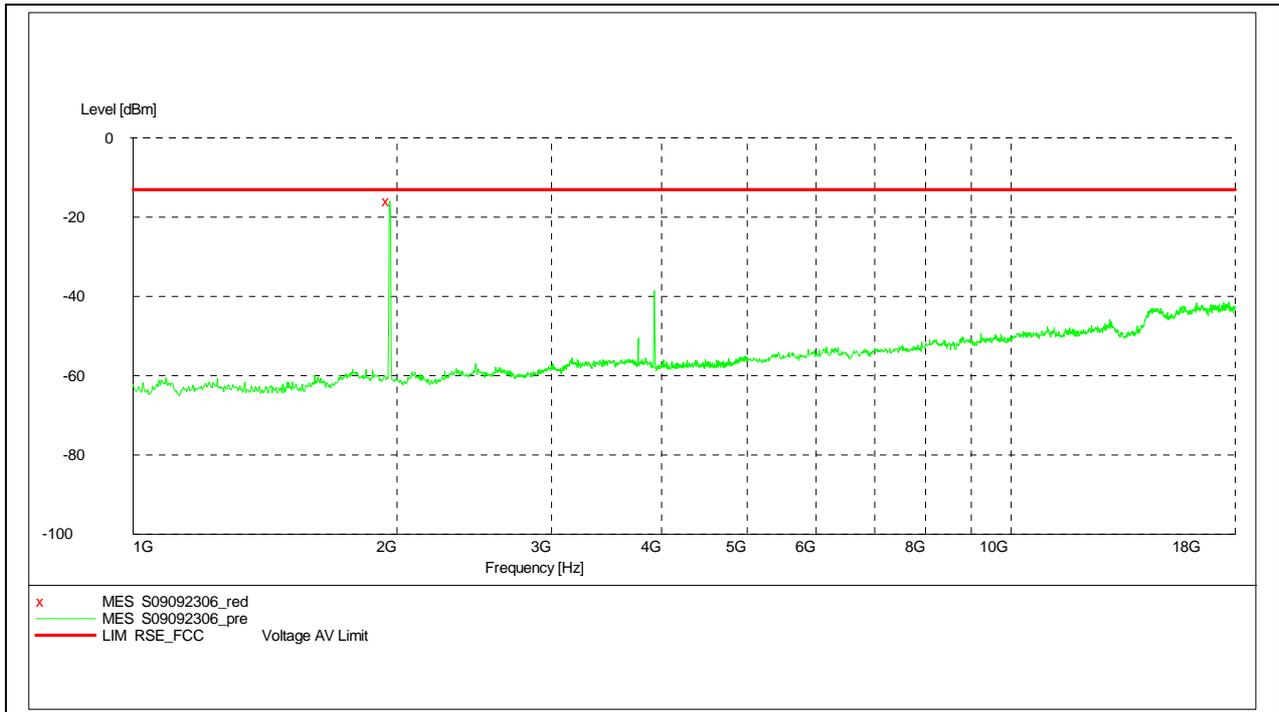


2. PCS Band:

(1) Below 1GHz:



(2) Above 1GHz:





Appendix G

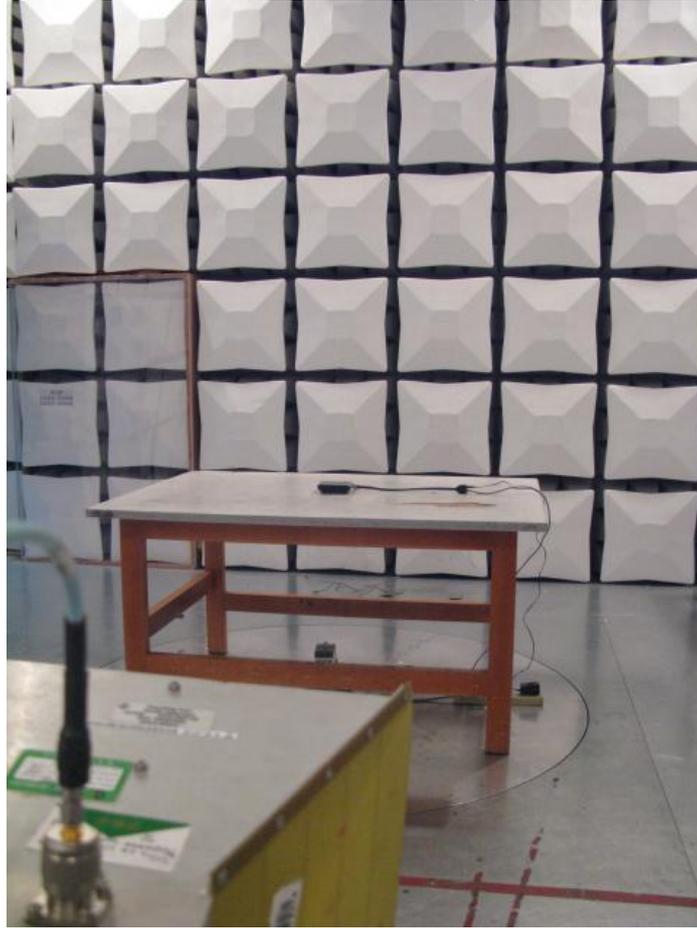
Photos of Test Setup

1. Photos for Radiated Spurious Emissions:

1) Radiated Spurious Disturbance (below 1GHz)



2) Radiated Spurious Disturbance (above 1GHz)



END