



**NEBRASKA CENTER FOR EXCELLENCE IN ELECTRONICS**  
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Lincoln, NE 68521  
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## Test Report

Company: Telex Communications  
8601 East Cornhusker Highway  
Lincoln, NE 68505  
Contact: Roger Cox  
Product: 2473AA  
FCC ID: B5D-CPE200MW

Test Report No: R052203-01A

APPROVED BY: Steve Cass  
General Manager  
Doug Kramer  
Test Engineer

A handwritten signature in black ink, appearing to read "Steve Cass", is written over a horizontal line.  
A handwritten signature in black ink, appearing to read "Doug Kramer", is written over a horizontal line.

DATE: 15 September 2003  
Total Pages: 56

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## Table of Contents

### 1.0 Summary of test results

- 1.1 Test Results
- 1.2 Test Methods
  - 1.2.1 Conducted Emissions
  - 1.2.2 Radiated Emissions
- 1.3 Reason for amendment

### 2.0 Description

- 2.1 Equipment under test
  - 2.1.1 Identification
  - 2.1.2 EUT received date
  - 2.1.3 EUT tested dates
  - 2.1.4 Manufacturer
  - 2.1.5 Serial number
- 2.2 Laboratory description
- 2.3 Special equipment or setup

### 3.0 Test equipment used

### 4.0 Detailed Results

- 4.1 FCC Part 15.203 unique connector for antenna
- 4.2 FCC Part 15.207 Conducted Emissions
- 4.3 FCC Part 15.109 Radiated Emissions, Rx only
- 4.4 FCC Parts 15.209 and 15.247 Radiated Emissions, Tx only

**Appendix A** – Test setup photos

**Appendix B** – Emissions results

**Appendix C** – Sample calculation

**Appendix D** – Bandedge Measurements and Data

**1.0 Summary of test results**

## 1.1 Test Results

Test	Test Specification	Results
CFR 47, FCC Part 15.203	Part 15.203	Complies
CFR 47, FCC Part 15.207	Part 15.207, Class B	Complies
CFR 47, FCC Part 15.209	Part 15.109, Class B	Complies
CFR 47, FCC Part 15.247	Parts 15.209 and 15.247	Complies

## 1.2 Test Methods

## 1.2.1 Conducted Emissions

Measurements of conducted emissions to the limits set in CFR 47 Part 15.207 were conducted using the methods shown in ANSI/IEEE C63.4, 2001. Several configurations were examined the results presented represent a worst-case scenario. The EUT was placed on a wooden table approximately 80cm high, positioned 40cm from the vertical ground plane and 80cm or more away from any other conductive surface.

## 1.2.2 Radiated Emissions

Compliance to CFR 47 Parts 15.109/209 and 15.247 was tested in accordance with the methods of ANSI/IEEE C63.4, 2001. Several configurations were examined the results presented represent a worst-case scenario. The EUT was placed on a wooden table approximately 80cm high and centered on a 4m diameter turntable. The table was rotated to maximize emissions. All measurements at 18GHz and below were taken at a distance of 3m from the EUT. Measurements between 18GHz and 25GHz were taken at a distance of approximately 1m from the EUT.

## 1.3 Reason for amendment

This report has been modified to include additional data regarding the bandedges and power measurements.

## 2.0 Description

### 2.1 Equipment under test

The 2473AA access point integrates a 18dBi nominal gain patch antenna and interface for a PCMCIA 802.11b radio card (FCC ID: NI3-2511CD-PLUS3). The unit is powered by a 120VAC to 12VDC converter (GlobTek P/N WD2E1000LCP-N) connected through a power over ethernet box.

2.1.1 Identification: Telex 2473AA

2.1.2 EUT received date: 22 May 2003

2.1.3 EUT tested dates: 31 July, 22 August, 8 and 14 September 2003

2.1.4 Manufacturer: Telex Communications

2.1.5 Serial number: Proto1

### 2.2 Laboratory description

All testing was performed at the NCEE Lincoln facility, which is a FCC registered lab. This site has been fully described in a report submitted to your office, and accepted in a letter dated May 4, 2001. Laboratory environmental conditions varied slightly throughout the tests:

Relative humidity of  $46 \pm 4\%$

Temperature of  $21 \pm 3^\circ$  Celsius

### 2.3 Special equipment or setup

The device was enabled to allow for continuous transmission at a single frequency. The network port of the EUT was "pinged" continuously. A high pass filter was used during radiated measurements between 3GHz and 18GHz and a low pass filter used in radiated measurements below 1GHz. When noted a 10dB attenuator was used when measuring the fundamental. The test firmware was configured at power level "F0" for testing. Cable routing must be as seen in Figure 4.

## 3.0 Test equipment used

<i>Serial #</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>	<i>Last cal.</i>
1654	EMCO	3142B	Biconilog antenna	03-May-03
6415	EMCO	3115	DRG Horn	17-Sep-02
2576	EMCO	3116	DRG Horn	29-Apr-03
100037	Rohde & Schwarz	ESIB26	EMI Test Receiver	02-Jul-03
100007	Rohde & Schwarz	ESIB7	EMI Test Receiver	26-May-03
082001/003	Rohde & Schwarz	TS-PR18	Preamplifier	N/A
2575	Rohde & Schwarz	ES-K1	Software v1.60	N/A
100023	Rohde & Schwarz	ESH3-Z5	Artificial Mains	20-Sep-02
200332488	Trilithic	7900096000	High pass filter	31-Jul-03
15542	Mini-Circuits	SLP-1200	Low pass filter	15-May-03
0119	Mini-Circuits	BW-S10W2	10dB attenuator	15-May-03
3911A06945	HP	8594E	Spectrum Analyzer	13-Sep-02 *

\*Telex equipment, calibration extended

#### 4.0 Detailed Results

All measurement results are located in the corresponding interval with a probability of approximately 95% (coverage factor  $k=2$ ). The interval for these measurements is  $U_x$  (expanded uncertainty).

Conducted Emissions, 150kHz – 30MHz:  $U_x = +/- 3.1$  dB

Radiated Emissions, 30MHz – 1GHz, 3m distance:  $U_x = +/- 3.4$  dB

Radiated Emissions, 1GHz – 18GHz, 3m distance:  $U_x = +/- 3.5$  dB

Radiated emissions measurements were made by first using a spectrum analyzer getting a rough signal spectrum, any points were then measured using a CISPR 16 compliant receiver with the following bandwidth setting:

30MHz - 1GHz: 120kHz IF bandwidth, 60kHz steps

Above 1GHz: 1MHz IF bandwidth, 500kHz steps

Conducted measurements were made using a CISPR 16 compliant receiver with the IF bandwidth set to 9kHz taking 5kHz steps through the range 150kHz to 30MHz.

All results shown are corrected to incorporate cables losses, antenna factors, and any amplification.

##### 4.1 FCC Part 15.203 unique connector for antenna

The antenna connector is through FCC ID: NI3-2511CD-PLUS3 and is physically located internal to FCC ID: B5D-CPE200MW. No external connectors exist for connection to a secondary antenna.

##### 4.2 FCC Part 15.207 Conducted Emissions

The EUT was tested in two modes; one was with the transmitter continuously operating and the receiver continuously active. The setup can be seen in Figure 1. The continuously transmitting mode provided the highest emissions and those results can be seen in Figure 5. No emissions were detected within 15dB of the limit. The results shown reflect a composite of the worst cases found on both the Phase and Neutral conductors.

#### 4.3 FCC Part 15.109 Radiated Emissions, Rx only

The EUT was found to not produce any emissions in excess of the Class 'B' limits. The test setup can be seen in Figure 2. More information on the radiated emissions can be found in Section 4.4. The transmitter was not active for these measurements. The results can be seen in Appendix B on page 18.

#### 4.4 FCC Parts 15.209 and 15.247 Radiated Emissions, Tx only

The EUT was tested with the transmitter continuously operating at 3 frequencies in the operational band, in the lower, middle and upper portions of the band. Measurements were made from 30MHz to 18 GHz at a distance of 3m and from 18GHz to 25GHz at a distance of 1m; no spurious emissions were noted above 18GHz. Figures 2 and 3 show the configuration of the device for radiated emissions measurements. Appendix B contains plots of the fundamental frequency and tabular results for the highest points for all three frequencies examined. All measurements were found to comply with the limits. For Figures 6 and 7, data points in the table correspond to the red (average) and blue (peak) '+' on the respective plots. Figure 7 shows the worst-case results below 1GHz with the transmitter active. Measurements were made above the fundamental were made using a high-pass filter in front of a pre-amplifier. The 6dB bandwidth, PSD and power plots can also be seen in Appendix B. The bandedge data and plots can be seen in Appendix D. All radiated measurements reported in Appendix B were taken at a distance of 3m.

# **Appendix A**

## **Test setup photos**



**Figure 1** Conducted emissions test setup



**Figure 2** Radiated emissions test setup



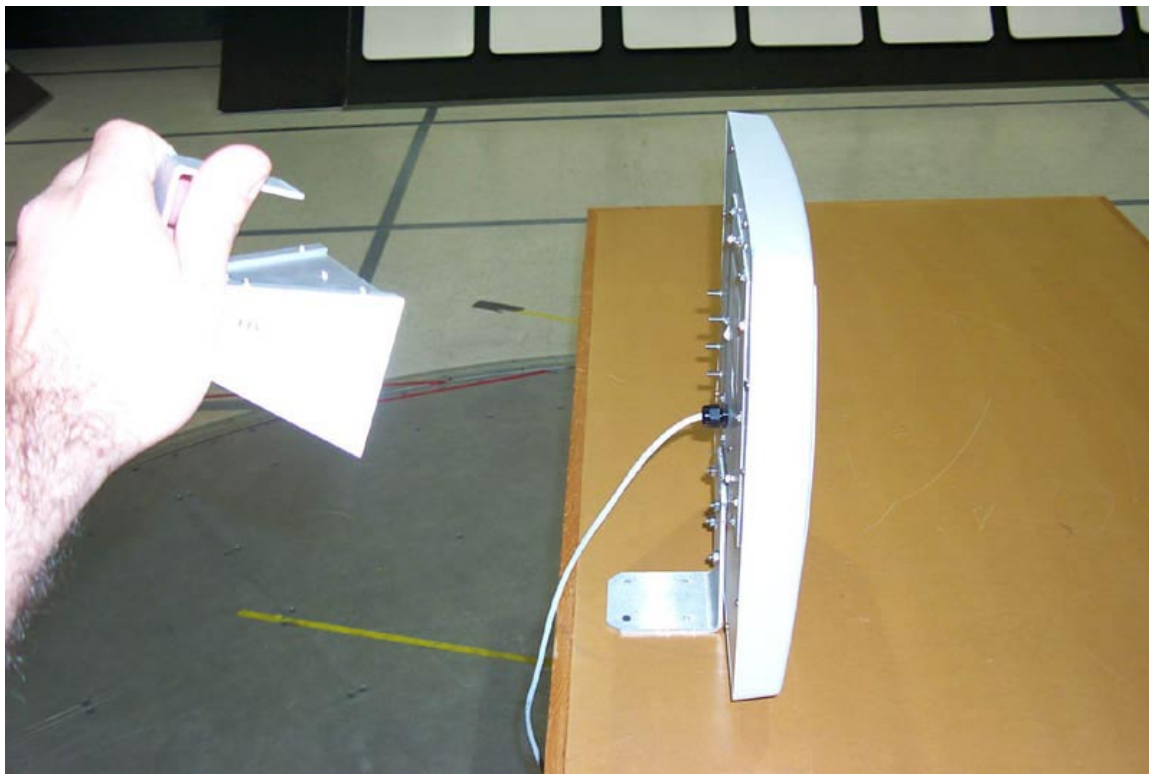


Figure 3 Radiated emissions measurements above 18GHz



Figure 4 Cable layout

# **Appendix B**

## Emissions results

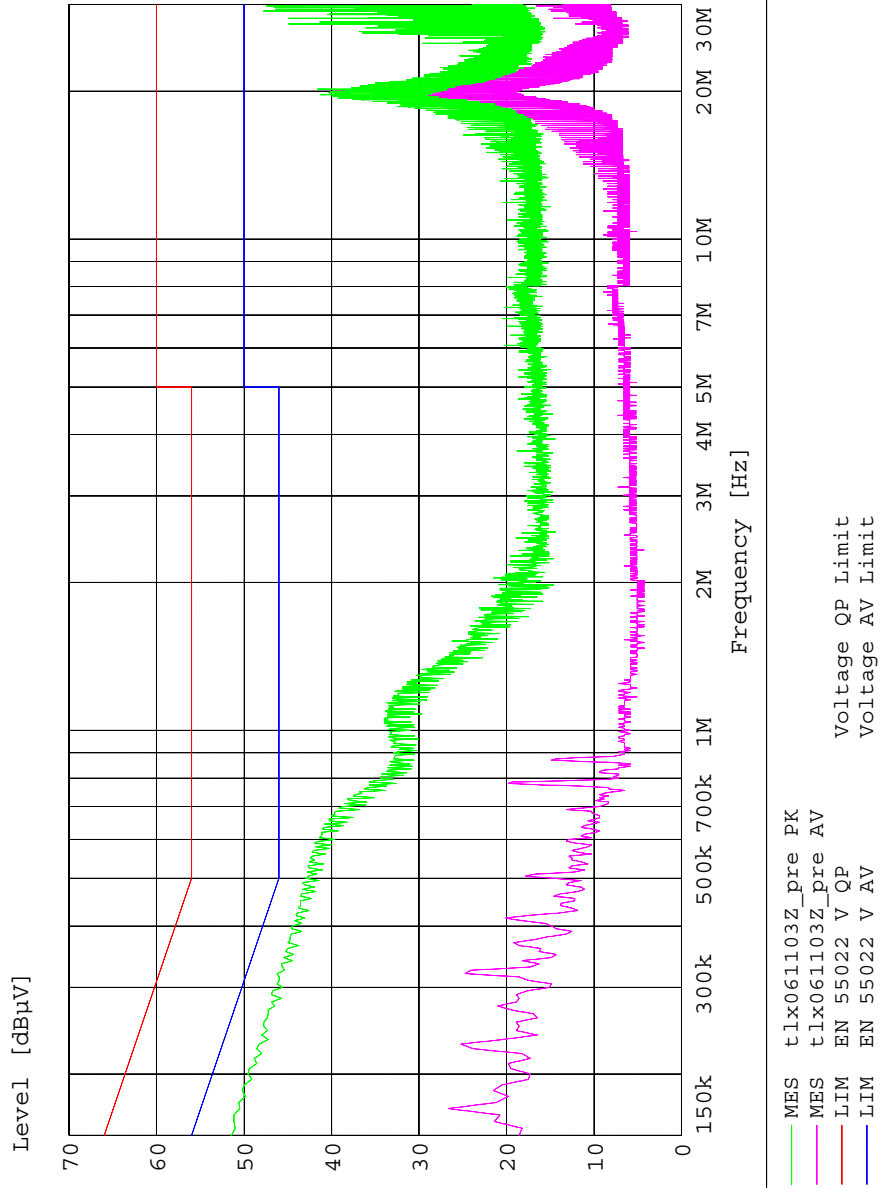


Figure 5 Power-line conducted emissions results

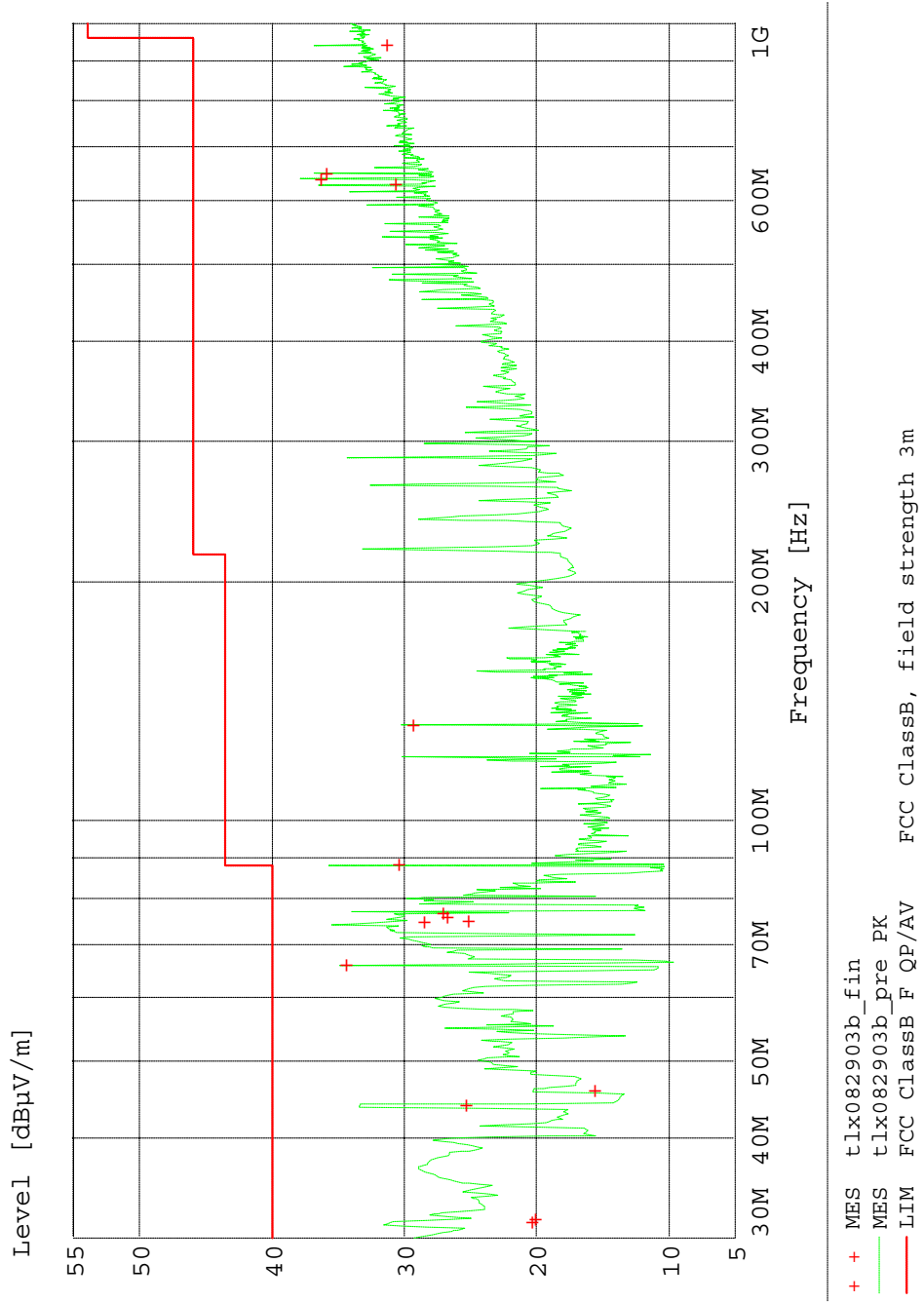


Figure 6 Radiated Emissions 30M-1GHz, Tx off, Continuous Rx on

Radiated Emissions 30M-1GHz, Tx off, Rx on, 3m dist.						
Frequency	QP Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
31.38	20.57	40	19.4	149	7	VERTICAL
31.68	20.39	40	19.6	121	68	VERTICAL
44.04	25.59	40	14.4	100	0	VERTICAL
45.9	15.82	40	24.2	100	43	VERTICAL
66	34.64	40	5.4	98	16	VERTICAL
74.58	28.75	40	11.3	122	107	VERTICAL
75.12	25.48	40	14.5	99	108	VERTICAL
75.66	27.04	40	13	99	281	VERTICAL
76.5	27.31	40	12.7	101	281	VERTICAL
87.96	30.62	40	9.4	101	182	VERTICAL
132	29.63	43.5	13.9	100	190	VERTICAL
627	30.88	46	15.1	102	13	HORIZONTAL
637.98	36.56	46	9.4	98	49	HORIZONTAL
649.02	36.13	46	9.9	101	47	HORIZONTAL
940.26	31.53	46	14.5	349	64	HORIZONTAL

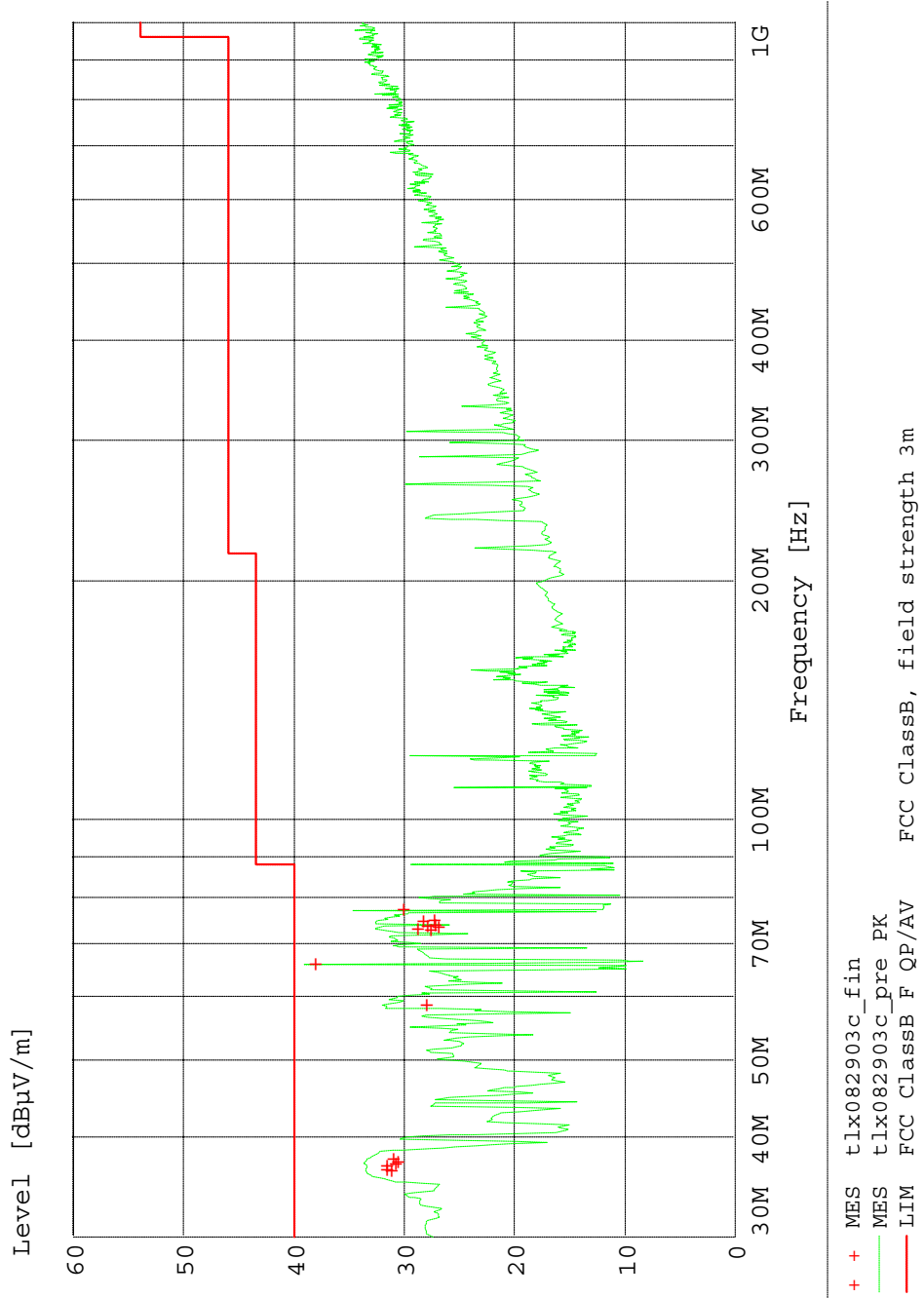


Figure 7 Radiated Emissions 30M-1GHz, Channel 1, Continuous Tx on

Radiated Emissions 30M-1GHz, Channel 1, Cont Tx on, 3m dist.						
Frequency	Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
36.36	31.5	40	8.5	99	194	VERTICAL
36.48	31.85	40	8.2	101	206	VERTICAL
36.78	31.87	40	8.1	100	195	VERTICAL
37.08	31.07	40	8.9	100	151	VERTICAL
37.26	30.9	40	9.1	105	153	VERTICAL
37.44	31.28	40	8.7	101	52	VERTICAL
58.44	28.29	40	11.7	128	154	VERTICAL
66	38.36	40	1.6	102	30	VERTICAL
72.78	27.87	40	12.1	100	296	VERTICAL
73.02	29.18	40	10.8	98	359	VERTICAL
73.32	27.16	40	12.8	123	288	VERTICAL
73.44	28.17	40	11.8	100	326	VERTICAL
73.68	27.54	40	12.5	99	323	VERTICAL
74.58	28.58	40	11.4	150	353	VERTICAL
74.94	27.56	40	12.4	102	300	VERTICAL
76.98	30.35	40	9.6	99	161	VERTICAL

Radiated Emissions Average and Peak 1G-18GHz, Cont Rx Active, 3m dist.									
	Average			Peak					
Frequency	Level	Limit	Margin	Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
5941.5	45.21	54	8.79	46.85	74	27.15	259	119	VERTICAL
5958.5	44.94	54	9.06	46.06	74	27.94	249	182	VERTICAL
10585.5	51.15	54	2.85	52.7	74	21.3	249	72	VERTICAL
11112	52.67	54	1.33	52.8	74	21.2	149	165	HORIZONTAL
11120	51.76	54	2.24	53.58	74	20.42	255	119	VERTICAL
17872	47.73	54	6.27	61.25	74	12.75	128	357	HORIZONTAL
17898.5	47.91	54	6.09	61.19	74	12.81	99	149	HORIZONTAL
17941	47.74	54	6.26	61.45	74	12.55	249	69	VERTICAL



Radiated Emissions Average and Peak 1G-3GHz, Channel 1, Cont Tx Active, 3m dist.									
	Average			Peak					
Frequency	Level	Limit	Margin	Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
2343	39.57	54	14.43	52.82	74	21.18	150	269	VERTICAL
2454	41.35			54.27			100	267	VERTICAL
2462	45.02			58.8			106	267	VERTICAL
2462.5	42.52			55.55			114	272	VERTICAL
2467.5	43.72			57.14			100	267	VERTICAL
2485	44.37	54	9.63	57.8	74	16.2	103	264	VERTICAL
2487	44.17	54	9.83	57.41	74	16.59	110	269	VERTICAL
2533.5	42.17	54	11.83	55.81	74	18.19	100	272	VERTICAL
2547	45.22	54	8.78	57.88	74	16.12	102	269	VERTICAL

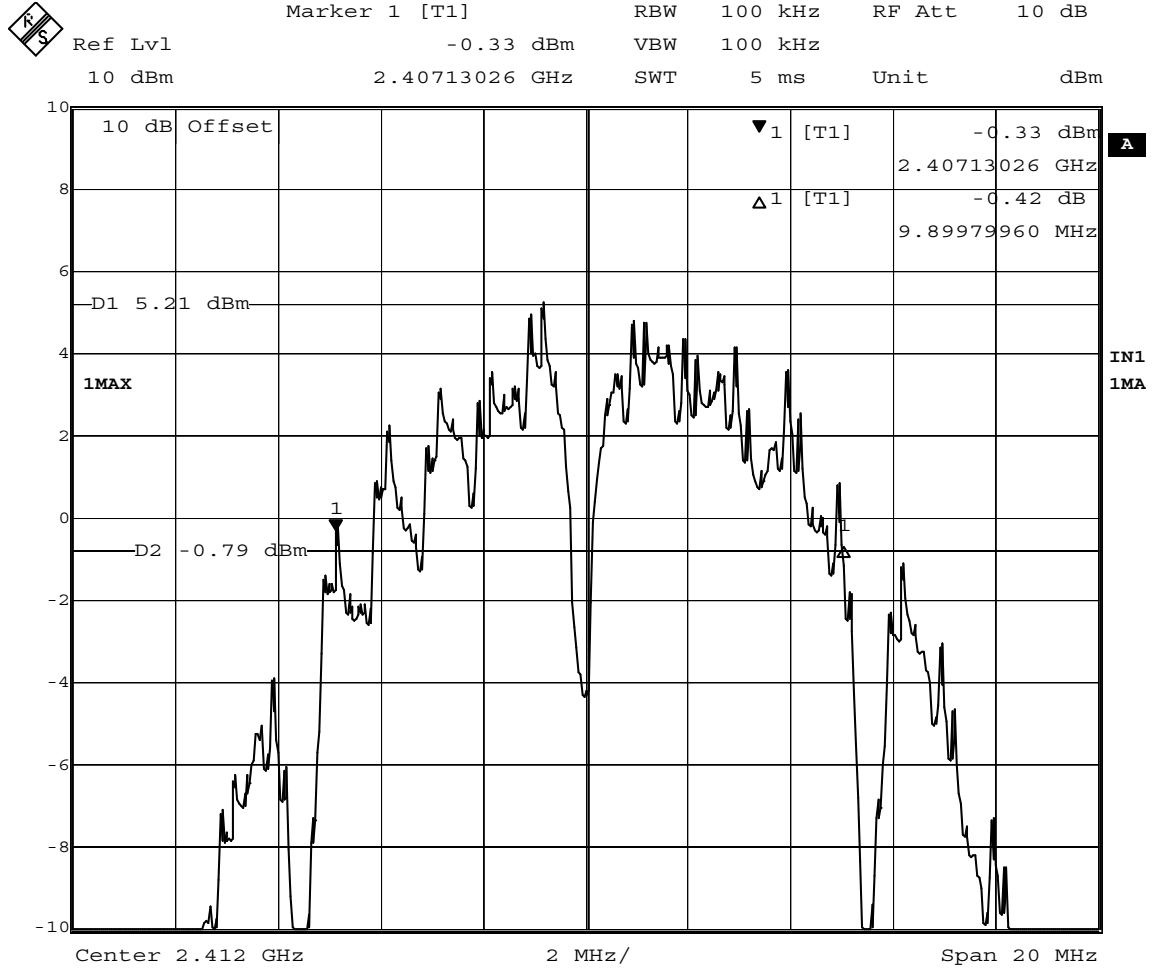
Radiated Emissions Average and Peak 1G-3GHz, Channel 5, Cont Tx Active, 3m dist.									
	Average			Peak					
Frequency	Level	Limit	Margin	Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
2471	42.06			55.41			99	265	VERTICAL
2478	44.46			57.67			99	265	VERTICAL
2484.5	42.16	54	11.84	55.86	74	18.14	101	270	VERTICAL
2486.5	40.99	54	13.01	54.44	74	19.56	99	269	VERTICAL
2487	44.25	54	9.75	57.67	74	16.33	122	267	VERTICAL
2508	42.93	54	11.07	56.06	74	17.94	115	267	VERTICAL
2514	42.11	54	11.89	55.53	74	18.47	101	263	VERTICAL

Radiated Emissions Average and Peak 1G-3GHz, Channel 11, Cont Tx Active, 3m dist.									
	Average			Peak					
Frequency	Level	Limit	Margin	Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
2087.5	40.92	54	13.08	52.39	74	21.61	246	261	VERTICAL
2328.5	52.51	54	1.49	65.66	74	8.34	149	267	VERTICAL
2371	41.35	54	12.65	55.1	74	18.9	145	268	VERTICAL
2403	46.65			56.15			106	269	VERTICAL
2440	41.04			54.61			99	267	VERTICAL
2444	50.61			59.76			100	267	VERTICAL
2492	44.72	54	9.28	58.57	74	15.43	125	267	VERTICAL
2501	40.83	54	13.17	54.05	74	19.95	99	262	VERTICAL
2509.5	50.78	54	3.22	64.2	74	9.8	101	265	VERTICAL
2510.5	41.21	54	12.79	54.52	74	19.48	106	267	VERTICAL
2520	41.69	54	12.31	55.14	74	18.86	100	269	VERTICAL
2523.5	43.68	54	10.32	57.46	74	16.54	99	265	VERTICAL
2592.5	42.1	54	11.9	55.46	74	18.54	102	272	VERTICAL
2836	49.83	54	4.17	58.77	74	15.23	99	234	HORIZ

Radiated Emissions Average and Peak 3G-18GHz, Channel 1, Cont Tx Active, 3m dist.									
	Average			Peak					
Frequency	Level	Limit	Margin	Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
4075.5	46.49	54	7.51	50.98	74	23.02	100	52	HORIZONTAL
6005	45.36	54	8.64	47.38	74	26.62	149	256	VERTICAL
6113	40.82	54	13.18	49.95	74	24.05	115	110	HORIZONTAL
6158.5	33.37	54	20.63	46.69	74	27.31	395	267	VERTICAL
6170	45.27	54	8.73	47.32	74	26.68	259	322	HORIZONTAL
6230.5	33.29	54	20.71	46.16	74	27.84	125	217	HORIZONTAL
6289	33.21	54	20.79	46.73	74	27.27	240	129	VERTICAL
9026.5	38.87	54	15.13	51.71	74	22.29	138	79	VERTICAL
9101.5	39.14	54	14.86	52.52	74	21.48	340	338	VERTICAL
10569.5	51.55	54	2.45	52.59	74	21.41	149	182	VERTICAL
17880.5	48.67	54	5.33	61.93	74	12.07	149	190	VERTICAL
17928.5	48.64	54	5.36	62.89	74	11.11	191	280	VERTICAL

Radiated Emissions Average and Peak 3G-18GHz, Channel 5, Cont Tx Active, 3m dist.									
	Average			Peak					
Frequency	Level	Limit	Margin	Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
4115.5	46.01	54	7.99	50.95	74	23.05	99	107	VERTICAL
4864	34.35	54	19.65	46.37	74	27.63	110	267	VERTICAL
5649.5	33.54	54	20.46	47.37	74	26.63	304	237	HORIZONTAL
5690	45.89	54	8.11	46.66	74	27.34	150	126	HORIZONTAL
6025.5	32.45	54	21.55	45.71	74	28.29	398	55	HORIZONTAL
6084.5	33.2	54	20.8	46.9	74	27.1	150	0	VERTICAL
6203.5	46	54	8	47.02	74	26.98	256	188	VERTICAL

Radiated Emissions Average and Peak 3G-18GHz, Channel 11, Cont Tx Active, 3m dist.									
	Average			Peak					
Frequency	Level	Limit	Margin	Level	Limit	Margin	Height	Angle	Pol.
MHz	dB $\mu$ V/m	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB	cm	deg	
4175.5	48.42	54	5.58	52.37	74	21.63	100	116	VERTICAL
4914	31.02	54	22.98	44.39	74	29.61	119	238	VERTICAL
5438	32.85	54	21.15	46.36	74	27.64	125	329	HORIZONTAL
5563	32.93	54	21.07	46.34	74	27.66	249	284	VERTICAL
6169	33.8	54	20.2	47.67	74	26.33	337	294	VERTICAL
6263	39.94	54	14.06	49.41	74	24.59	100	68	VERTICAL
6351	45.78	54	8.22	47.38	74	26.62	250	16	VERTICAL



Date: 8.SEP.2003 15:11:36

Figure 8 Conducted Channel 1, 6dB bandwidth, 9.89MHz

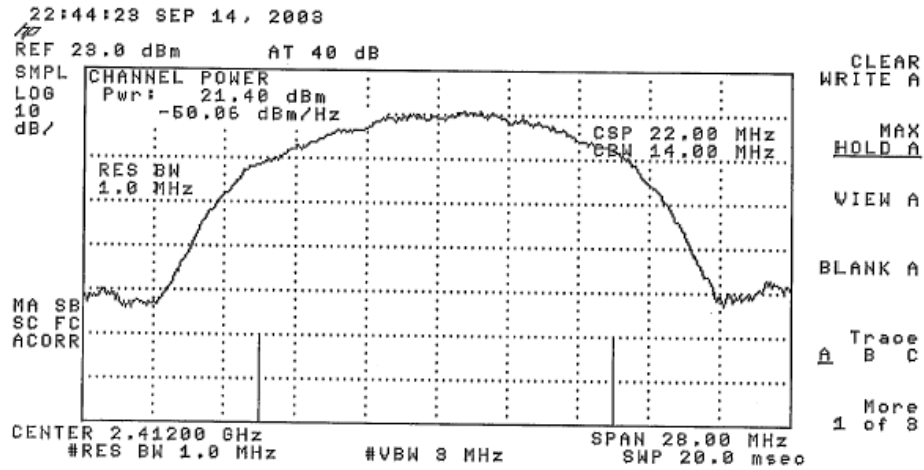
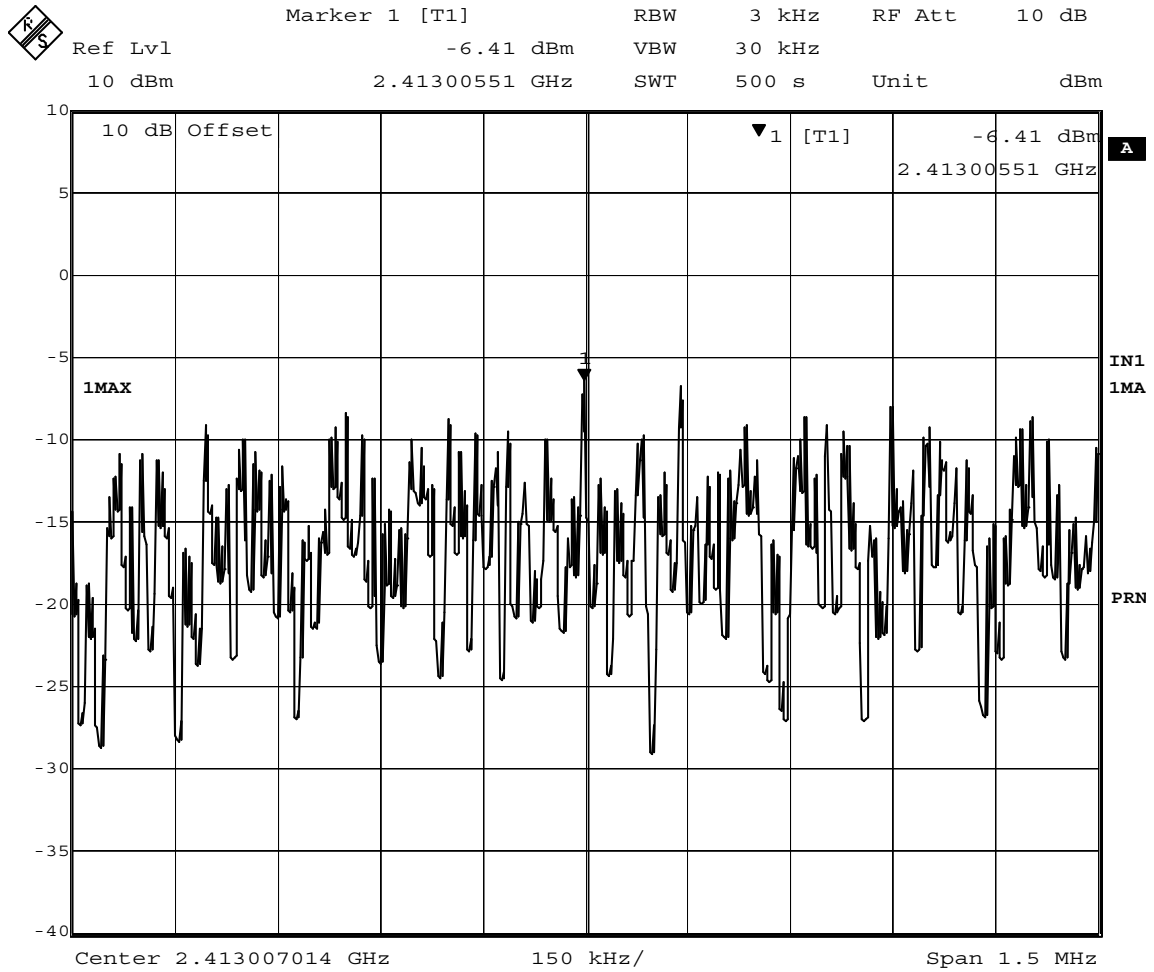


Figure 9 Conducted, Peak power measurement Channel 1

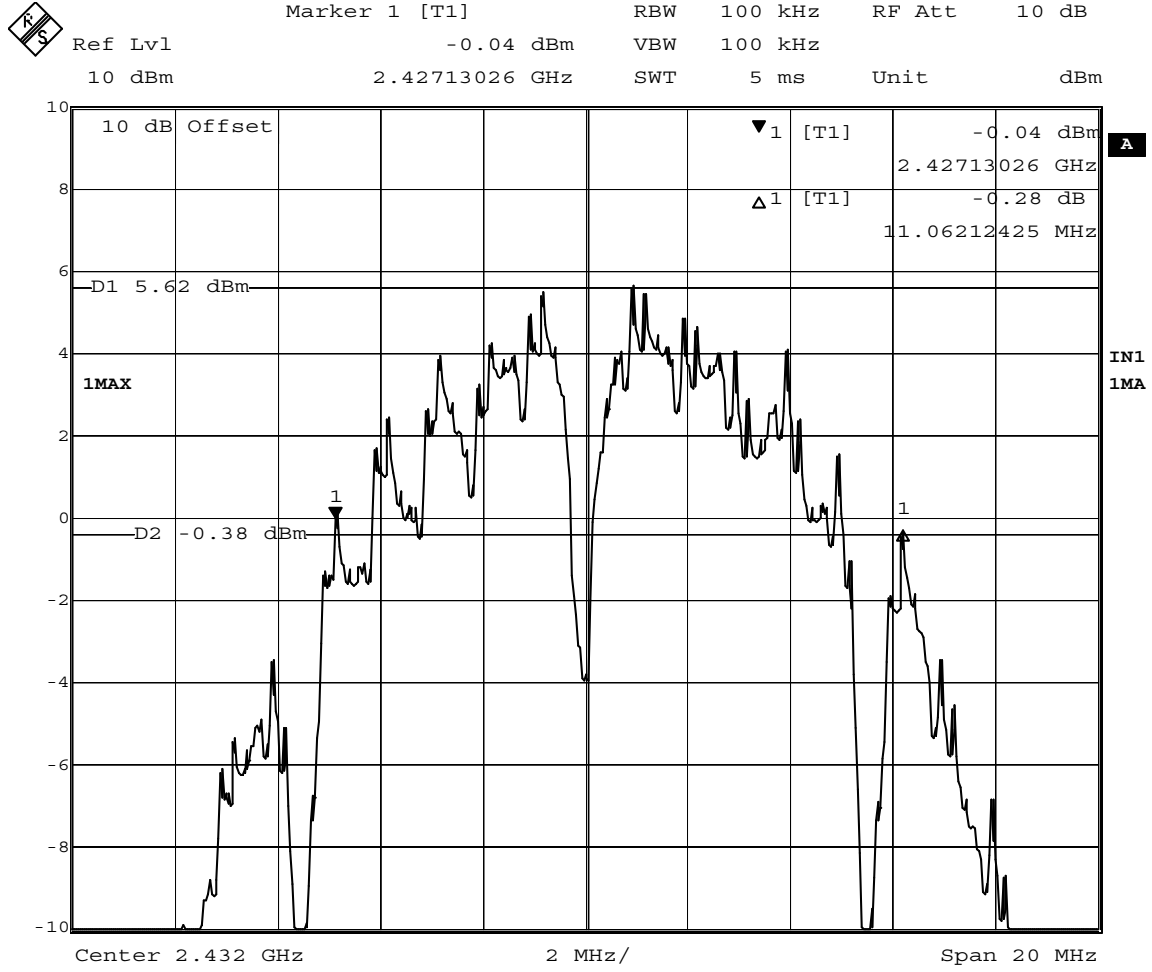
Spectrum analyzer data above taken using Telex HP spectrum analyzer.



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Figure 10 Conducted Channel 1, PSD





Date: 8.SEP.2003 16:29:48

Figure 11 Conducted Channel 5, 6dB bandwidth, 11.06MHz

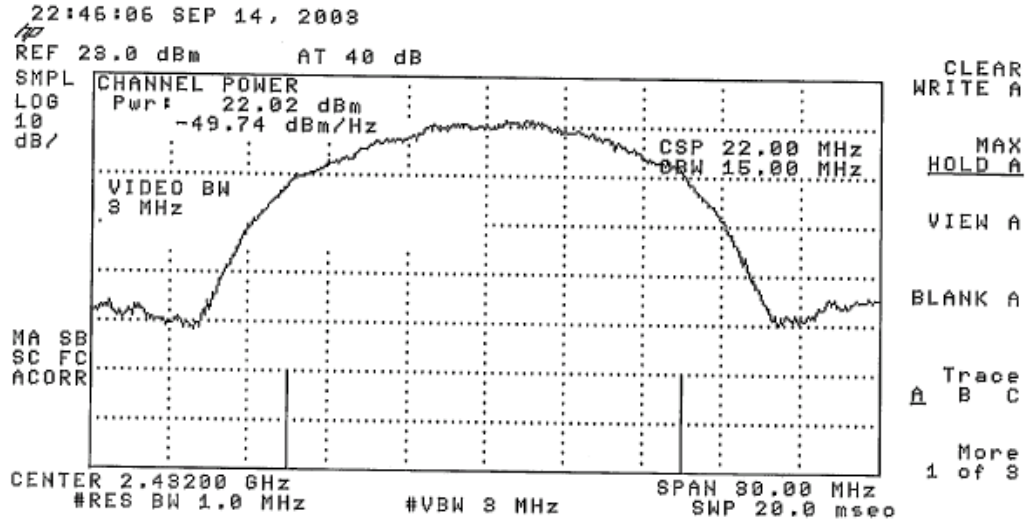
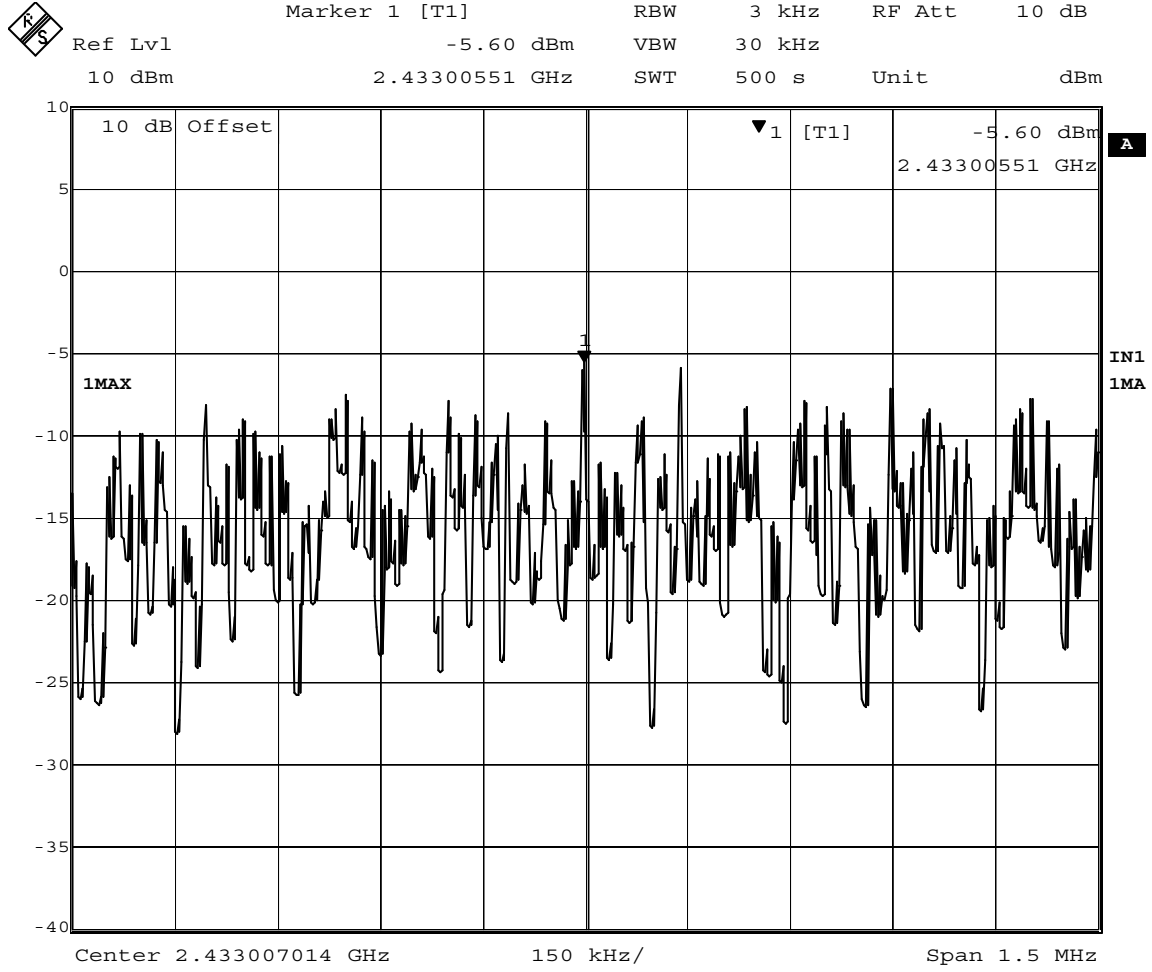


Figure 12 Conducted Channel 5, Peak power measurement

Spectrum analyzer data above taken using Telex HP spectrum analyzer.



Date: 8.SEP.2003 16:27:19

Figure 13 Conducted Channel 5, PSD

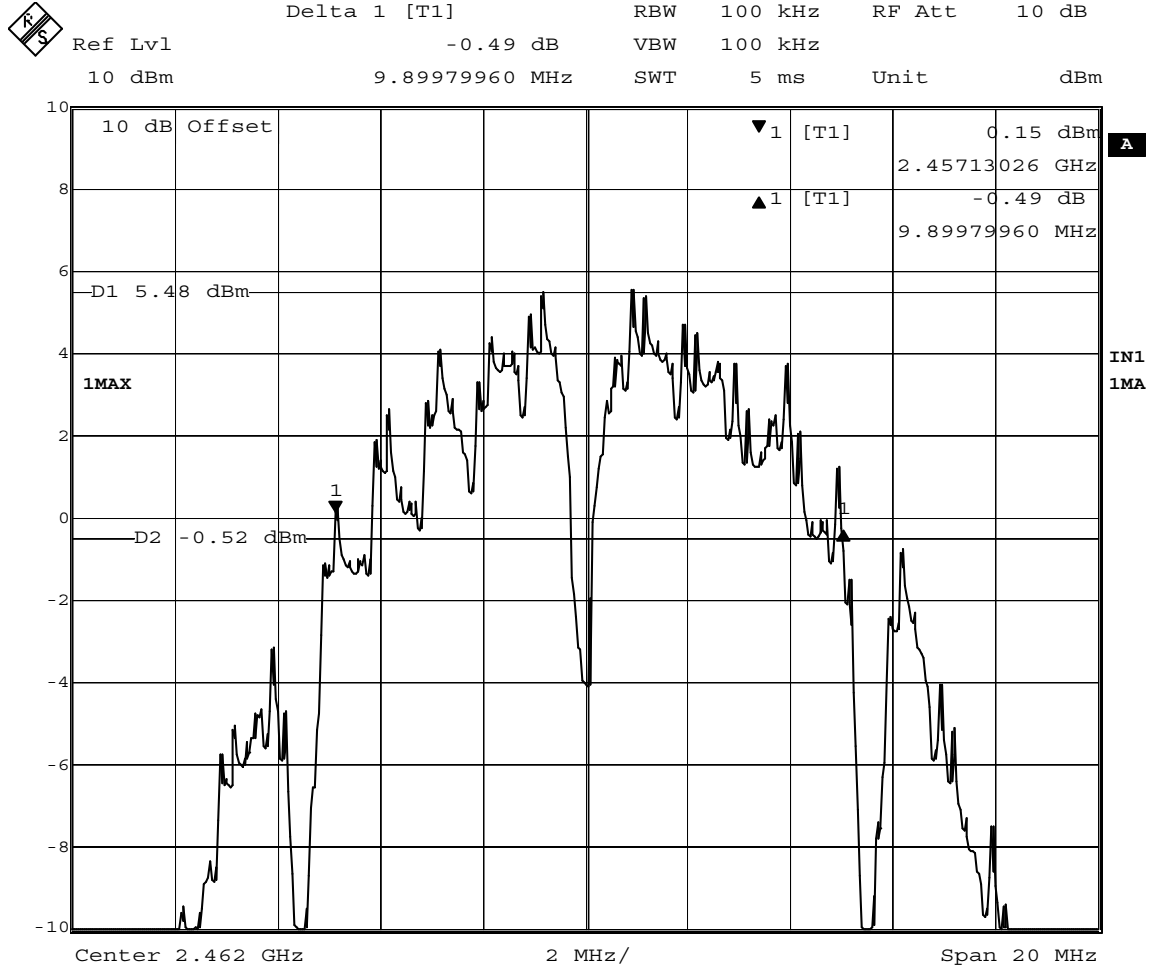


Figure 14 Conducted Channel 11, 6dB bandwidth, 9.89MHz

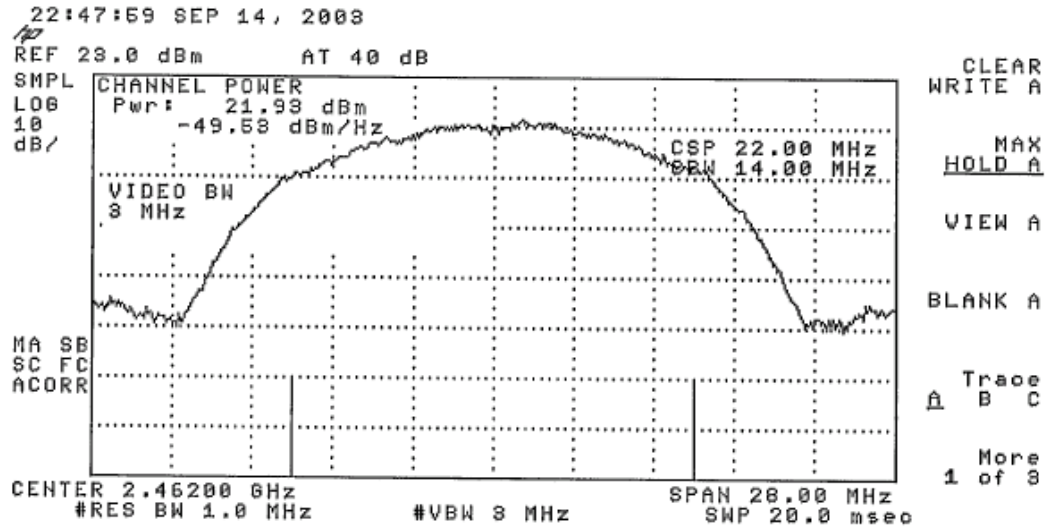
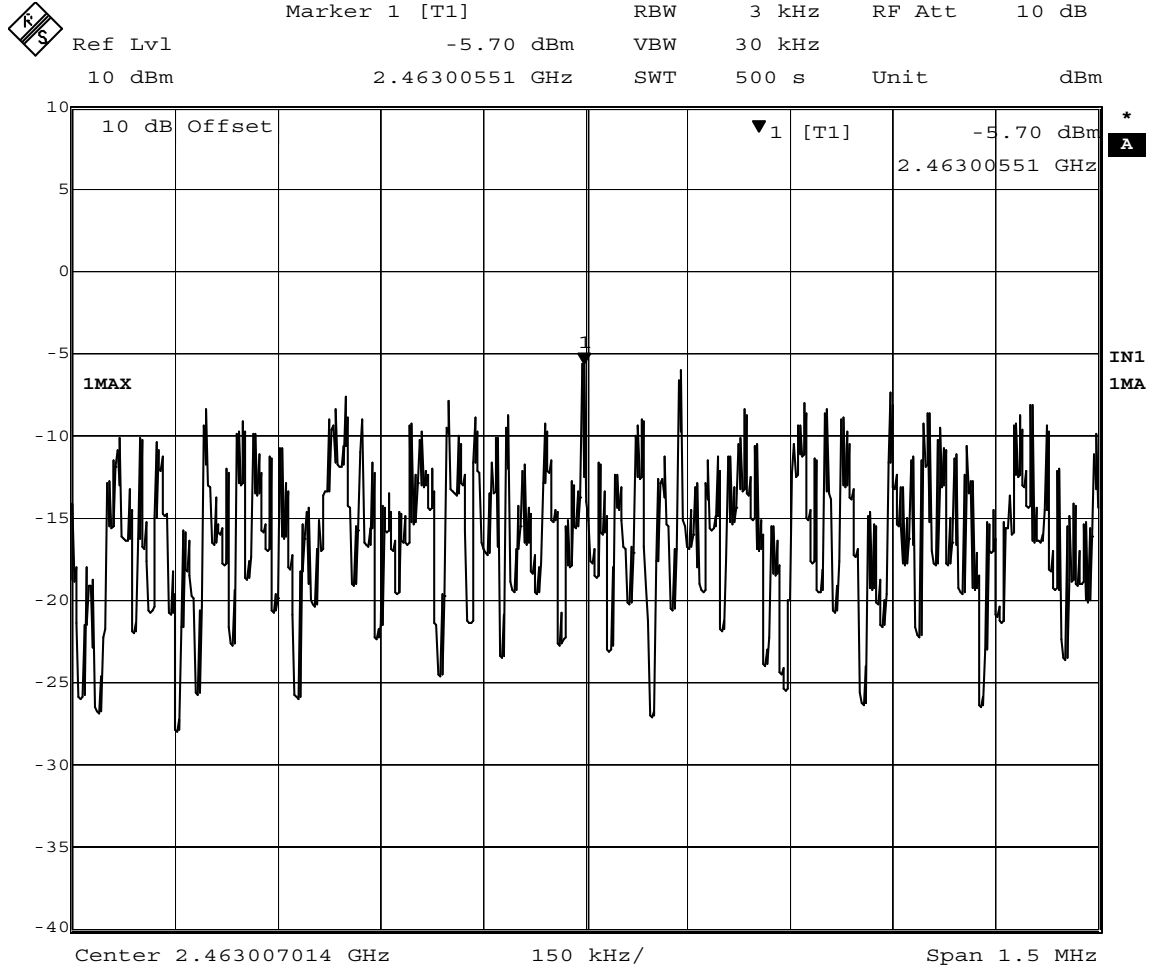


Figure 15 Conducted Channel 11, Peak power measurement

Spectrum analyzer data above taken using Telex HP spectrum analyzer.



Date: 8.SEP.2003 17:10:11

Figure 16 Conducted Channel 11, PSD

# **Appendix C**

## Sample calculation

## Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF - (-CF + AG) + AV$$

where FS = Field Strength

RA = Receiver Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

AV = Averaging Factor (if applicable)

Assume a receiver reading of 55 dB $\mu$ V is obtained. The Antenna Factor of 12 and a Cable Factor of 1.1 is added. The Amplifier Gain of 20 dB is subtracted, giving a field strength of 48.1 dB $\mu$ V/m.

$$FS = 55 + 12 - (-1.1 + 20) + 0 = 48.1 \text{ dB}\mu\text{V/m}$$

The 48.1 dB $\mu$ V/m value can be mathematically converted to its corresponding level in  $\mu$ V/m.

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(48.1 \text{ dB}\mu\text{V/m})/20] = 254.1 \mu\text{V/m}$$

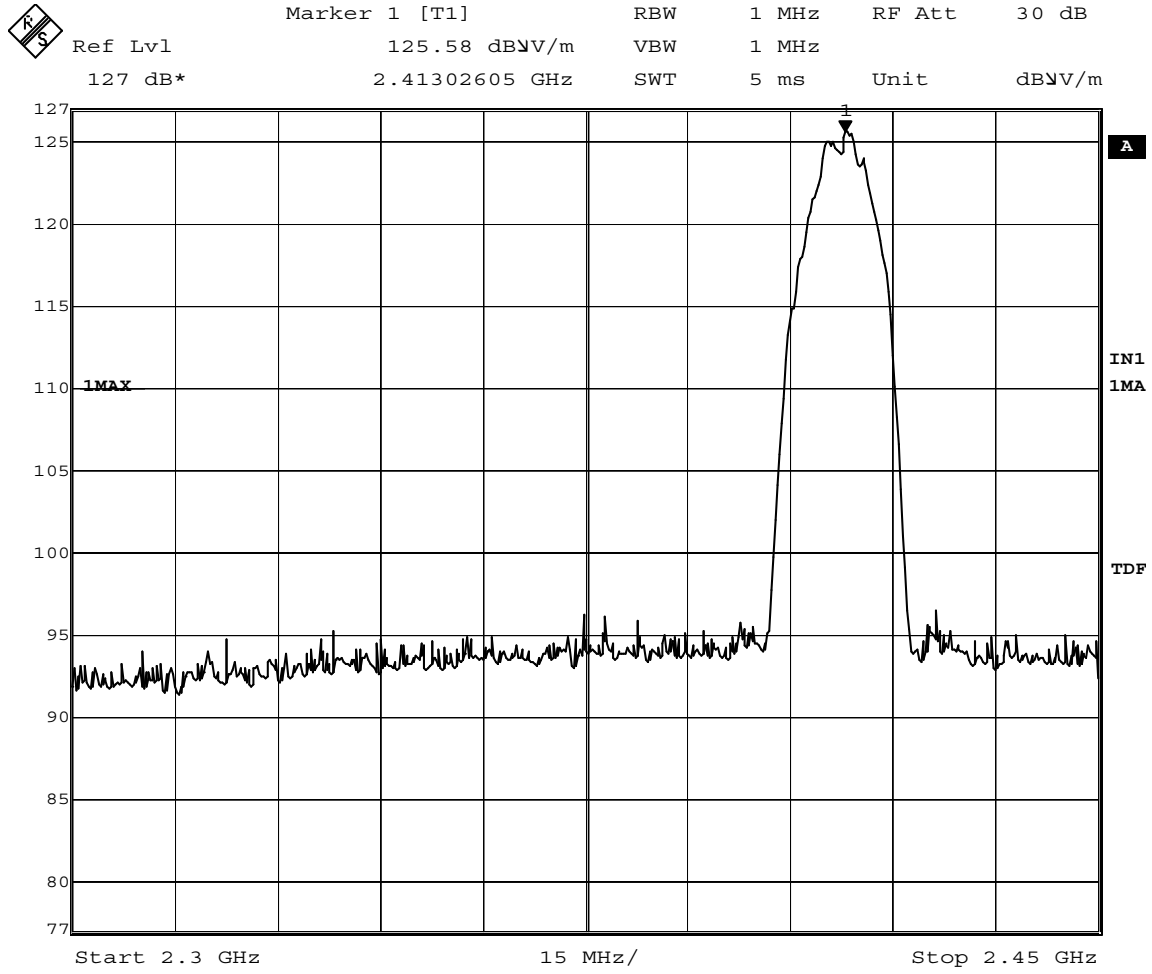


# **Appendix D**

## **Bandedge Measurements and Data**

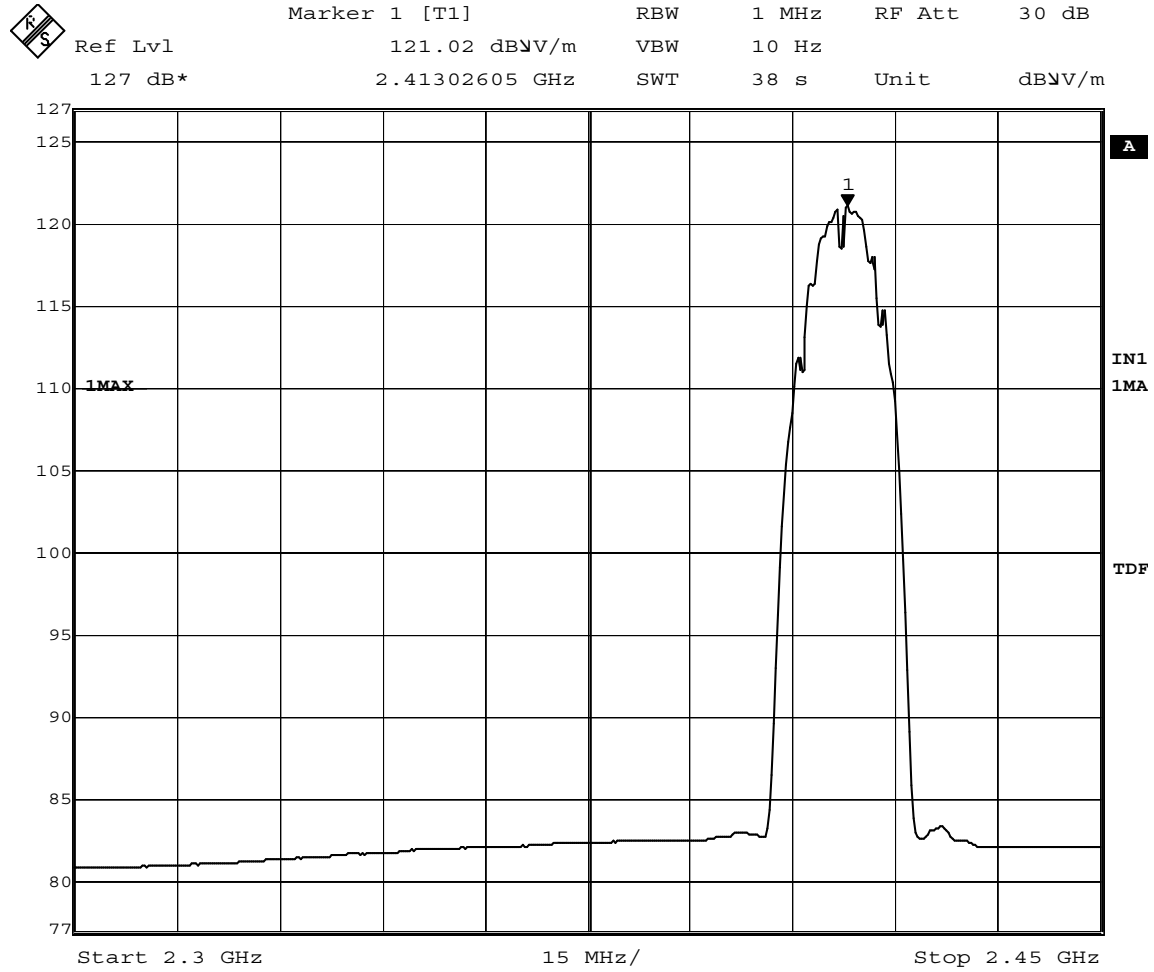
Radiated		Radiated					
Channel	Peak (dBuV/m)	Fig.	Average (dBuV/m)	Fig.			
1	125.58	17	121.02	18			
11	127.30	33	121.45	34			
Conducted Peak		RestBand (dBm)		Fig.	Freq (GHz)	1MHz RBW(dBm)	
Channel	100kHz RBW (dBm)	Fig.					
1	5.43	25	-53.89	25	2.3707		
11	5.22	35	-54.55	35	2.4842	11.15	Fig. 37
Conducted Average		RestBand (dBm)		Fig.	Freq (GHz)	1MHz RBW (dBm)	
Channel	100kHz RBW (dBm)	Fig.					
1	-3.35	28	-62.62	28	2.3707		
11	-3.33	36	-66.72	36	2.4837	6.31	Fig. 38
Delta dB		Average (dB)					
Channel	Peak (dB)						
1	59.32	59.27					
11	59.77	63.39				Restricted Bands	
						Freq (GHz)	
						Miniumum	Maximum
Mhz from BandEdge		Average (MHz)				Lower	2.3100
Channel	Peak (MHz)					Upper	2.3900
1	19.30	19.30					2.5000
11	0.68	0.20					
BW Delta dB		Average (dB)				Limits (dBuV/m)	
Channel	Peak (dB)					Average	54
1	0.00	0.00				Peak	74
11	5.93	9.64					
Restricted Band Calculated Values (dBuV/m)							
Channel	Peak	Average					
1	66.26	61.75					
11	61.60	48.42					

It is shown in the calculation above that the bandedge average measurement for channel 1 is in excess of the 54dBuV/m limit. The following figures show that the product does comply with the bandedge requirements. As can be seen in Figure 20 the spurious emission at 2.37GHz is not detectable with 100kHz RBW and is greater than 65dB below the fundamental signal. Figure 21 shows that a 10kHz RBW is required to clearly see the 2.37GHz signal above the noise floor. Figures 22 and 23 demonstrate that this is a distinct signal; Figure 24 is measured with 1kHz RBW with the result being 0.9dB below the value shown in Figure 21, which is greater than 3dB below the 54dBuV/m limit.



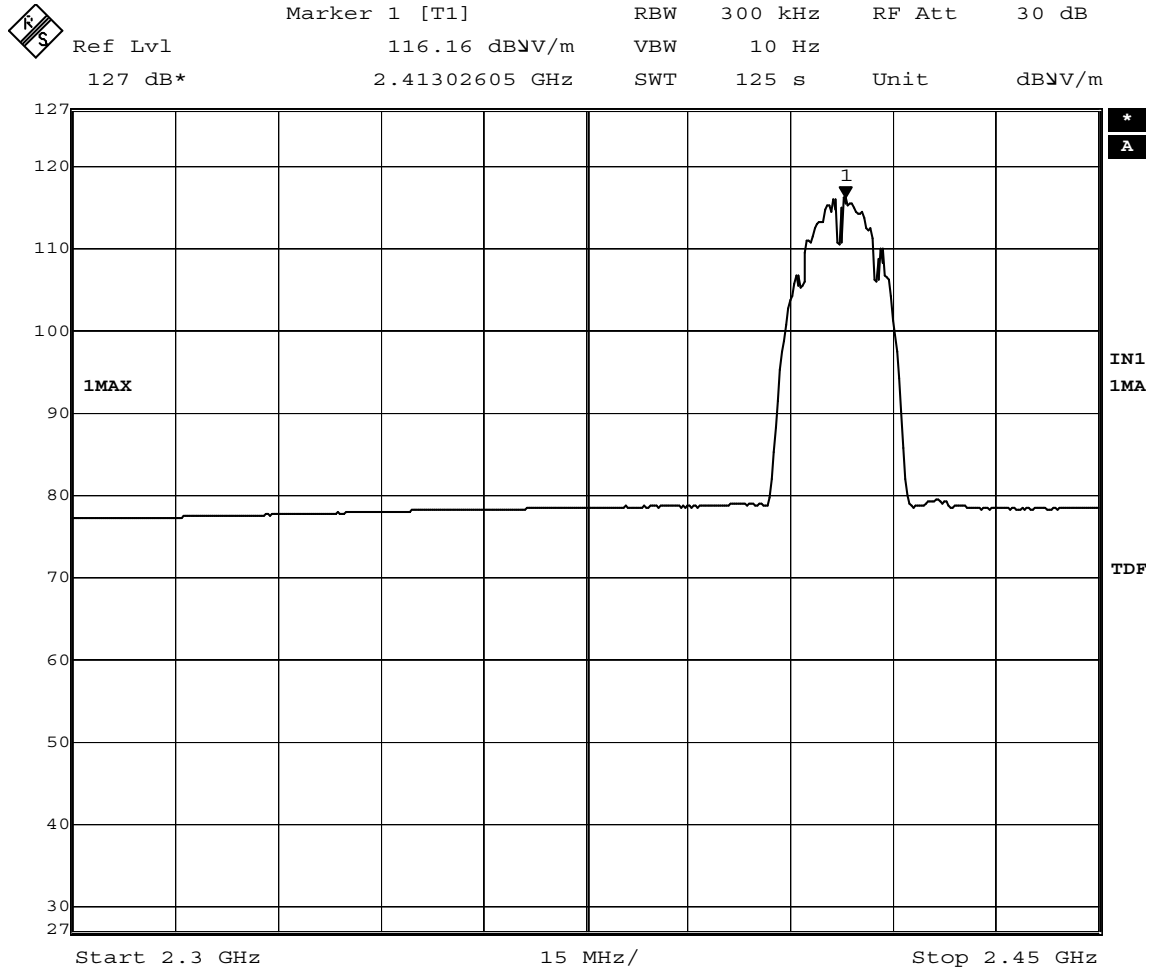
Date: 27.AUG.2003 15:34:03

Figure 17 Radiated Channel 1 Peak measurement



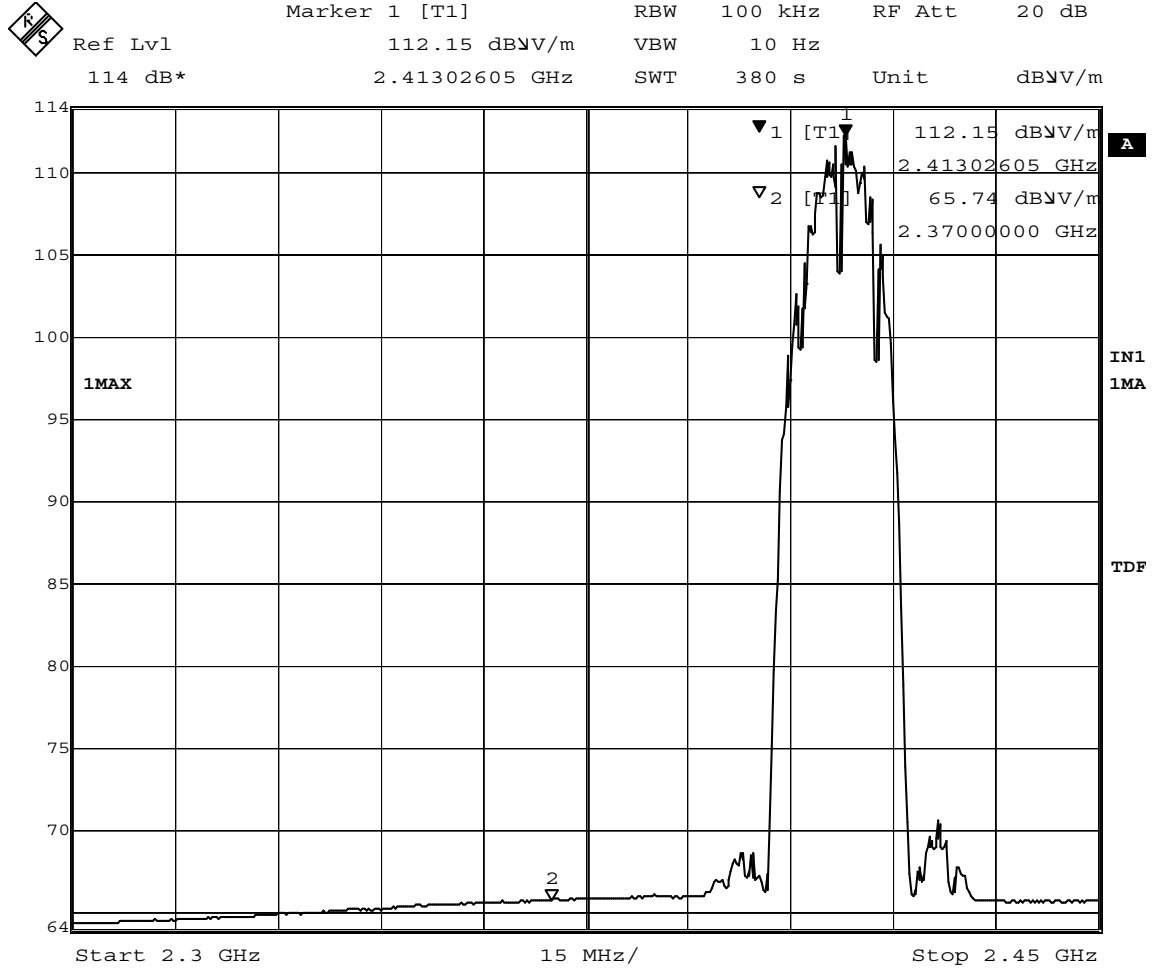
Date: 27.AUG.2003 15:35:34

**Figure 18 Radiated Channel 1 Average measurement, RBW=1MHz**



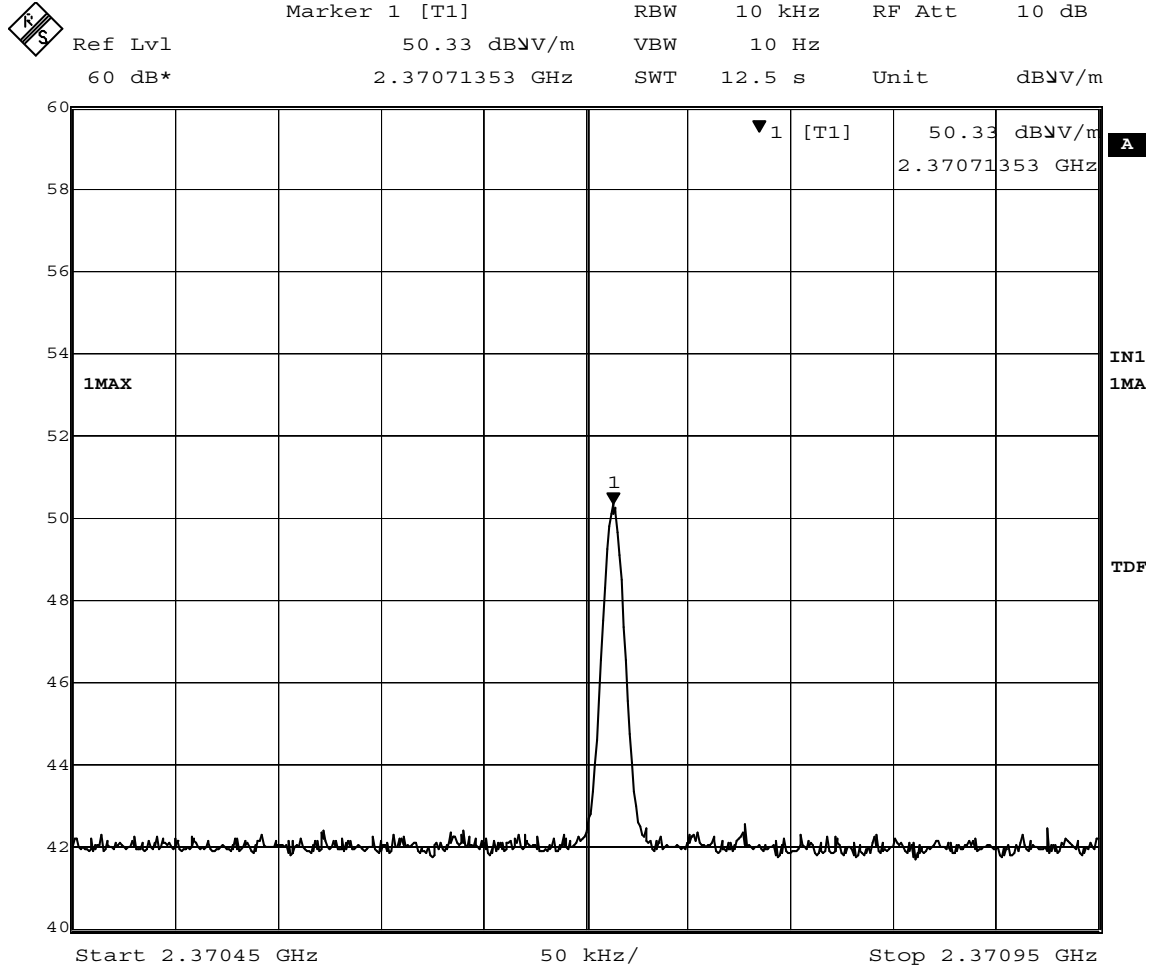
Date: 27.AUG.2003 15:42:39

Figure 19 Radiated Channel 1 Average measurement, RBW=300kHz



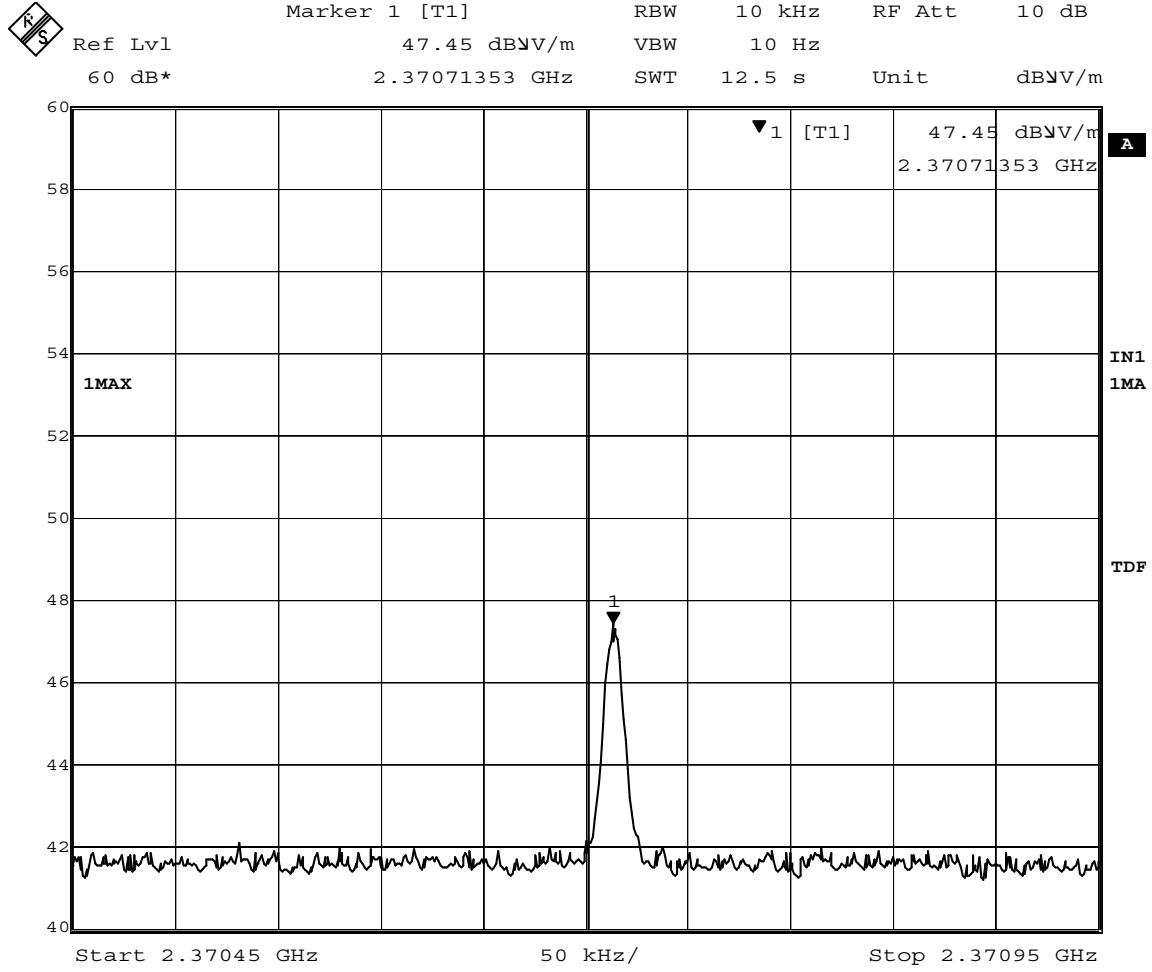
Date: 27.AUG.2003 16:06:40

Figure 20 Radiated Channel 1 Average measurement, RBW=100kHz



Date: 27.AUG.2003 16:16:11

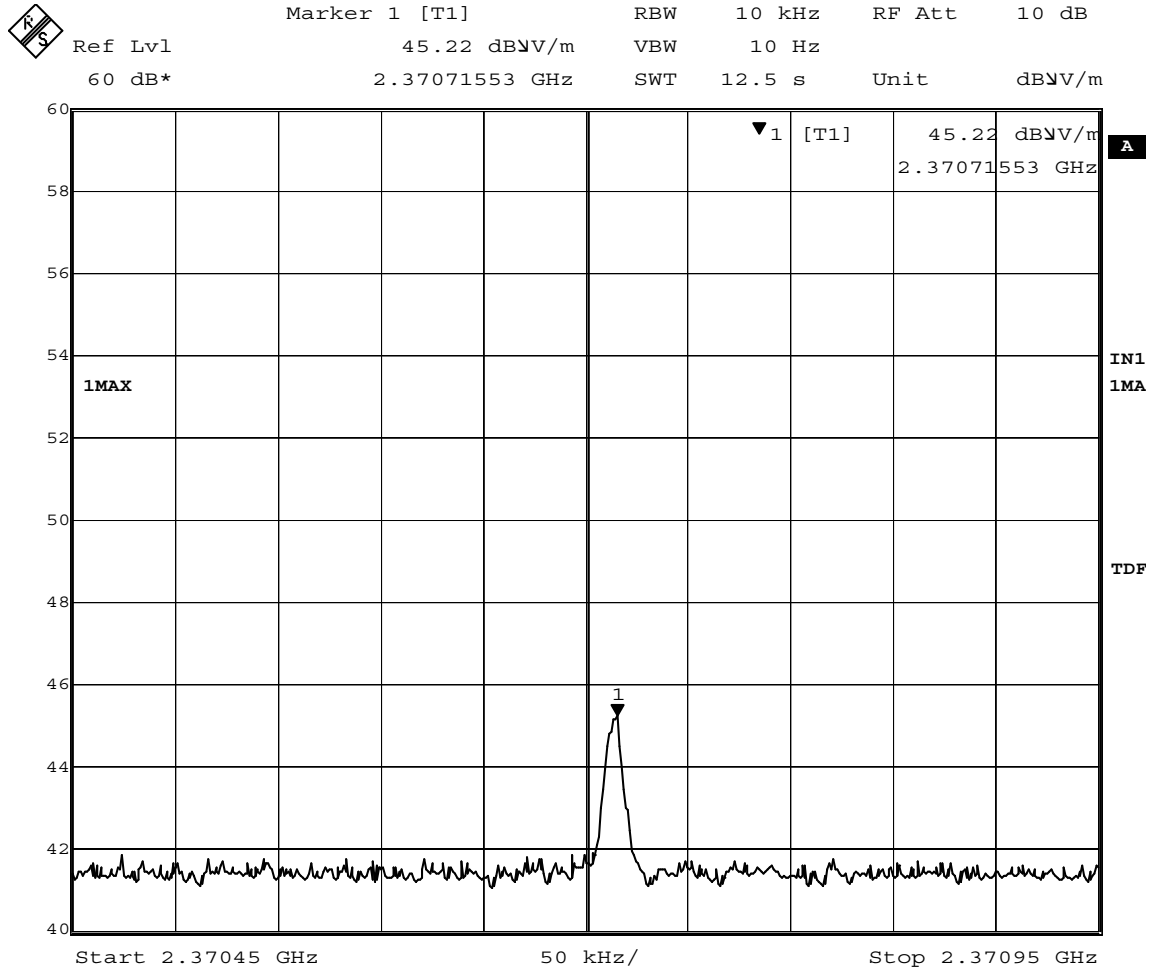
Figure 21 Radiated Channel 1 Average measurement, RBW=10kHz, 0dB Attenuation



Date: 27.AUG.2003 16:17:28

Figure 22 Radiated Channel 1 Average measurement, RBW=10kHz, 3dB Attenuation





Date: 27.AUG.2003 16:19:28

**Figure 23 Radiated Channel 1 Average measurement, RBW=10kHz, 6dB Attenuation**

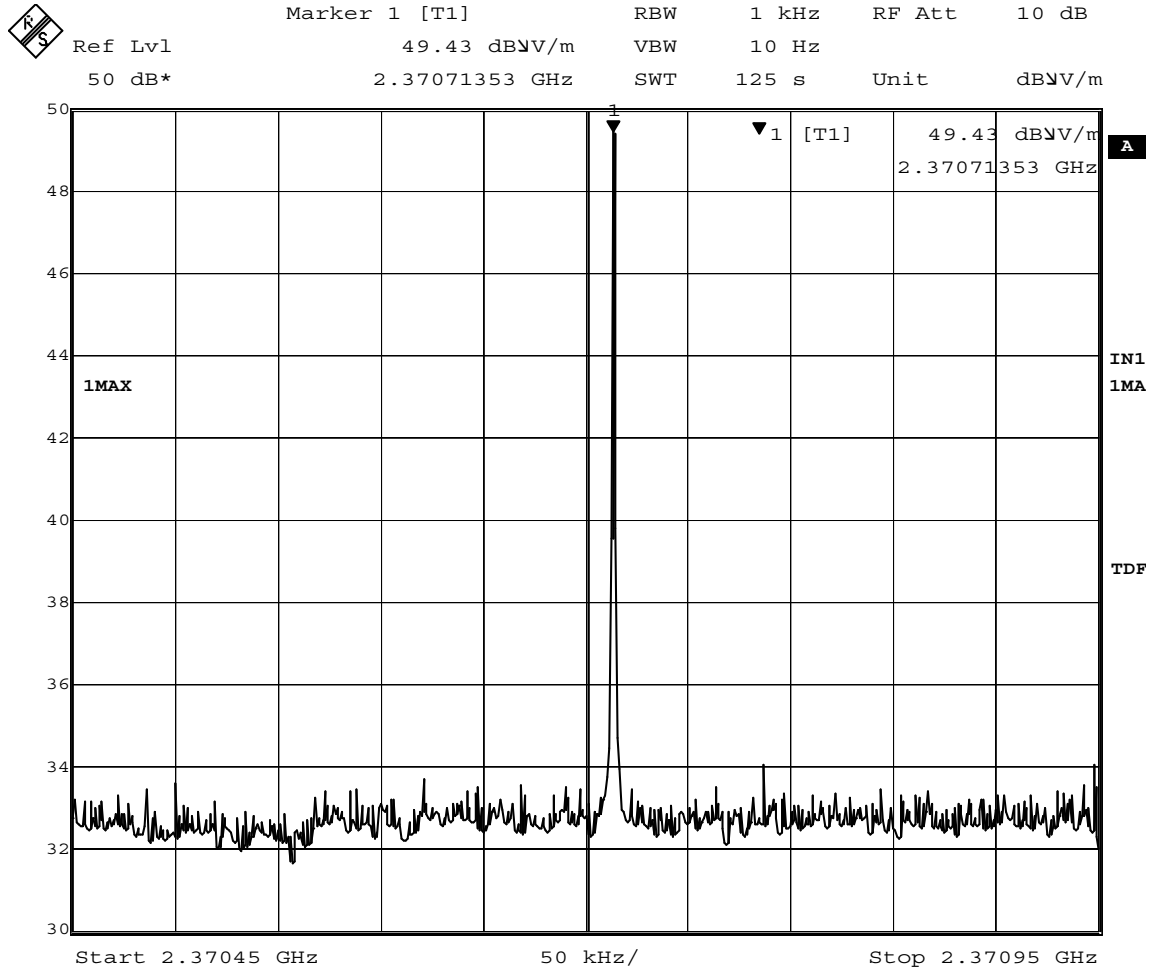


Figure 24 Radiated Channel 1 Average measurement, RBW=1kHz

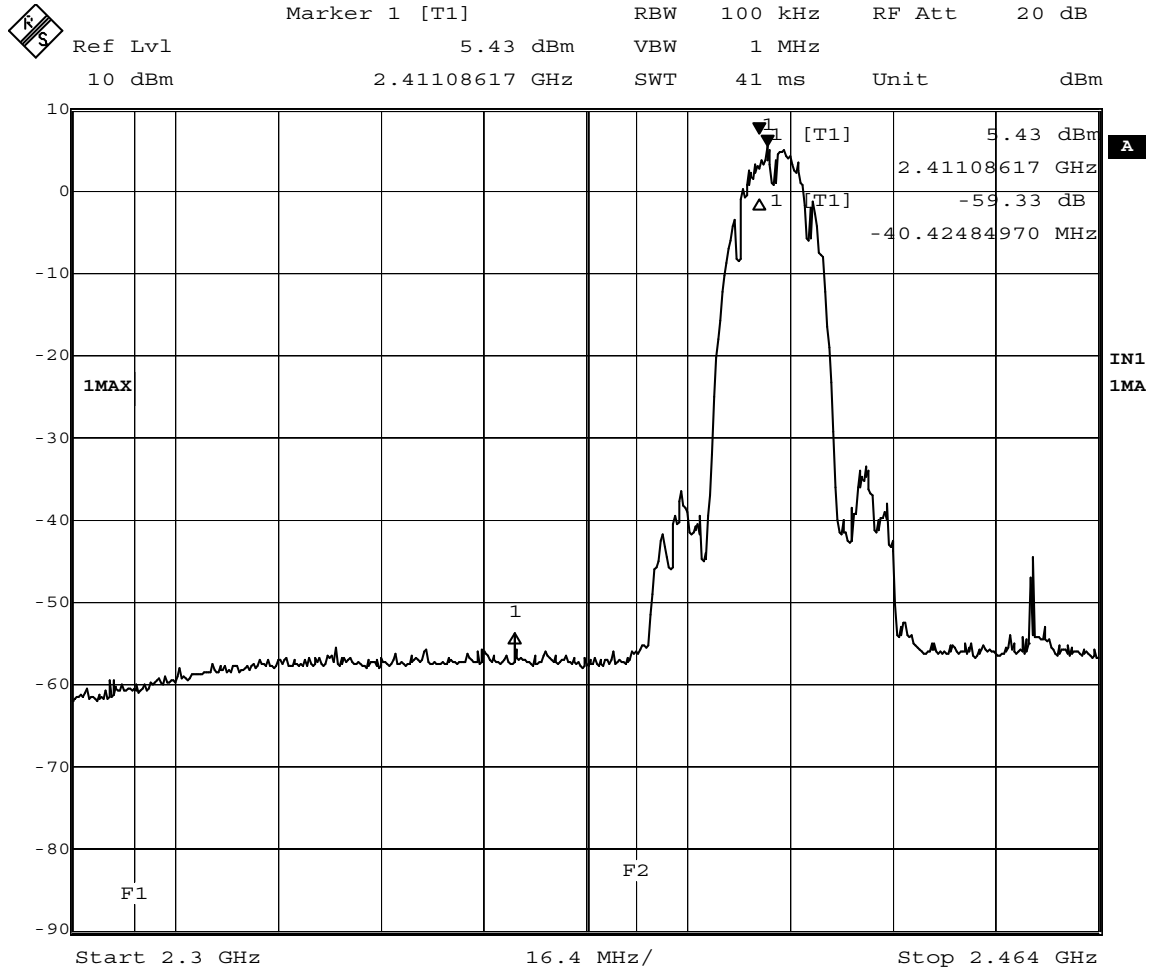
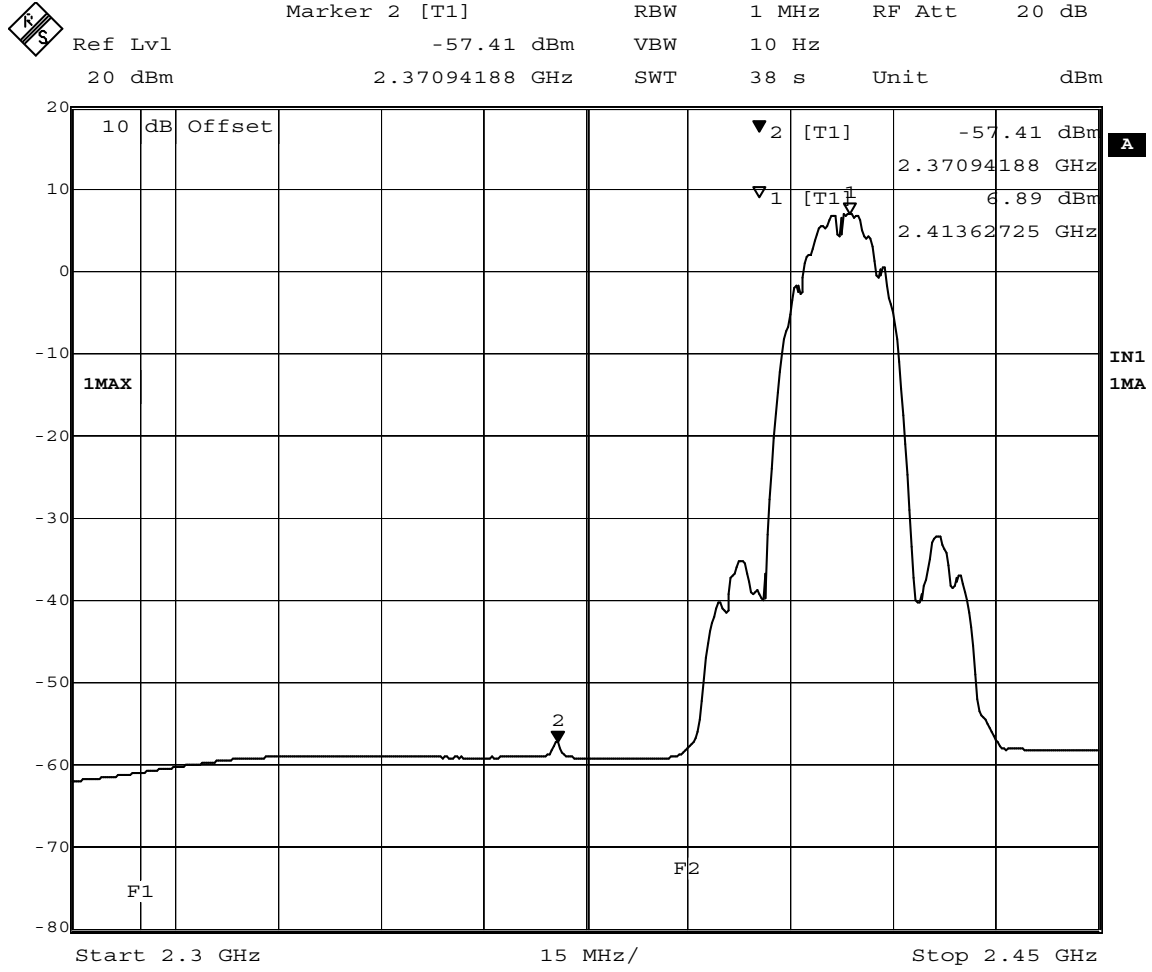
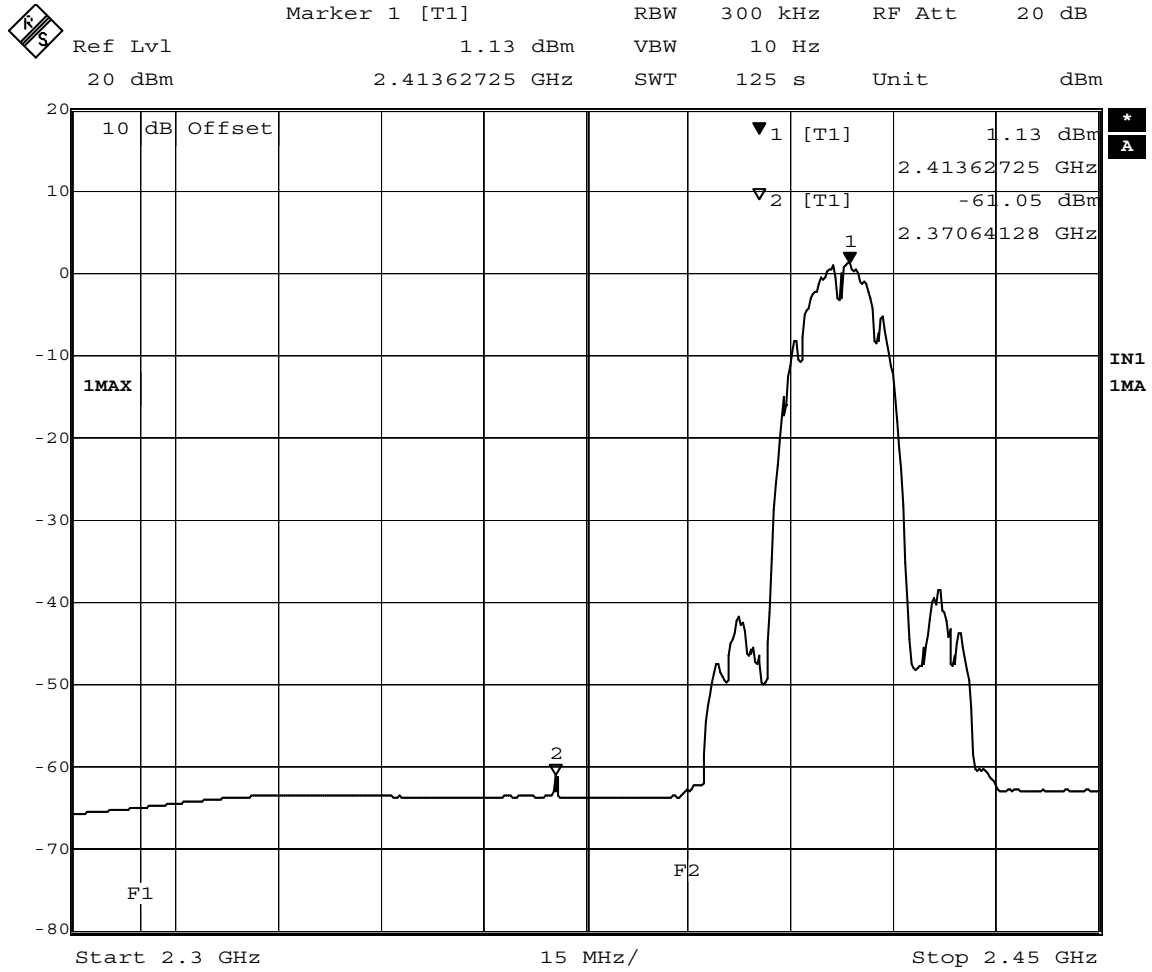


Figure 25 Conducted Channel 1 Peak measurement



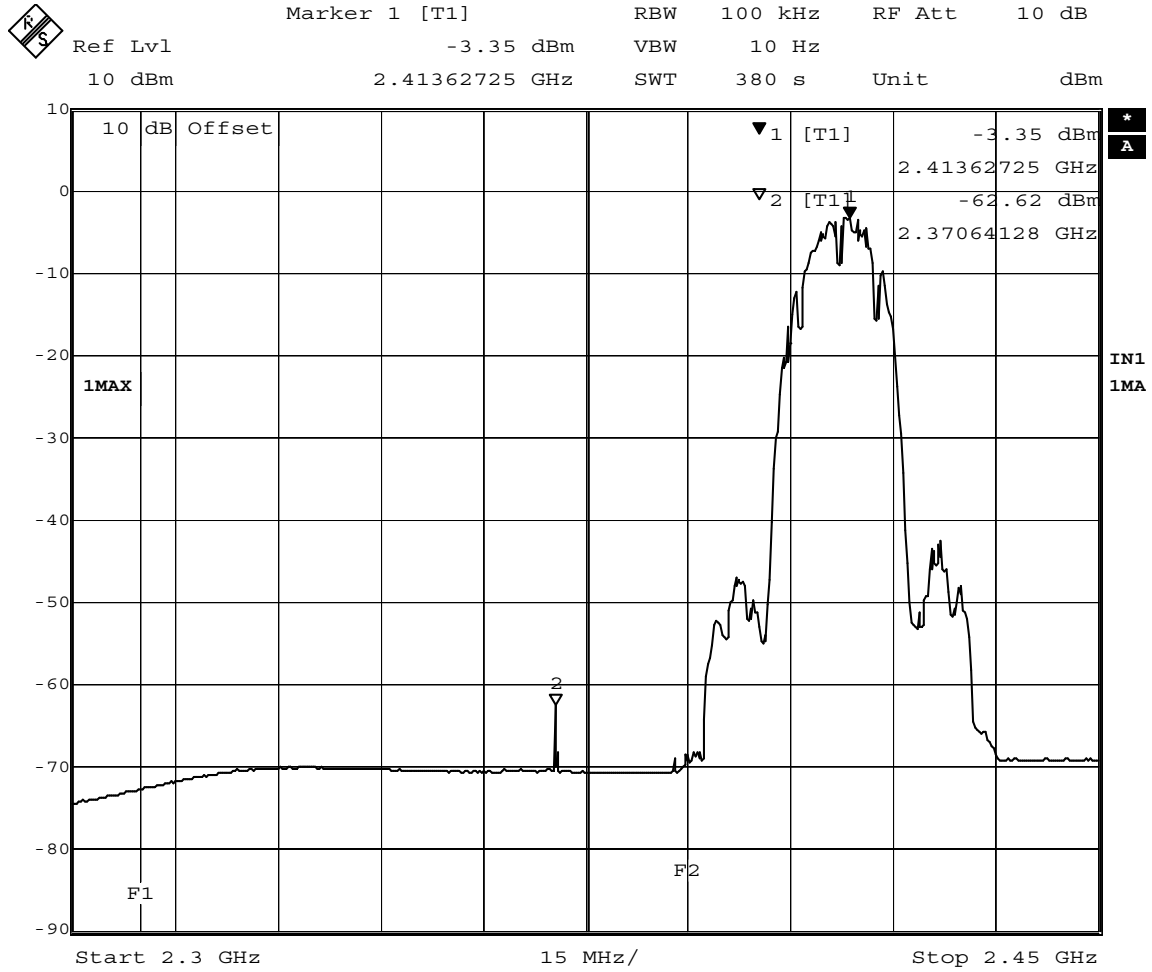
Date: 8.SEP.2003 14:10:35

Figure 26 Conducted Channel 1 Average measurement, RBW=1MHz



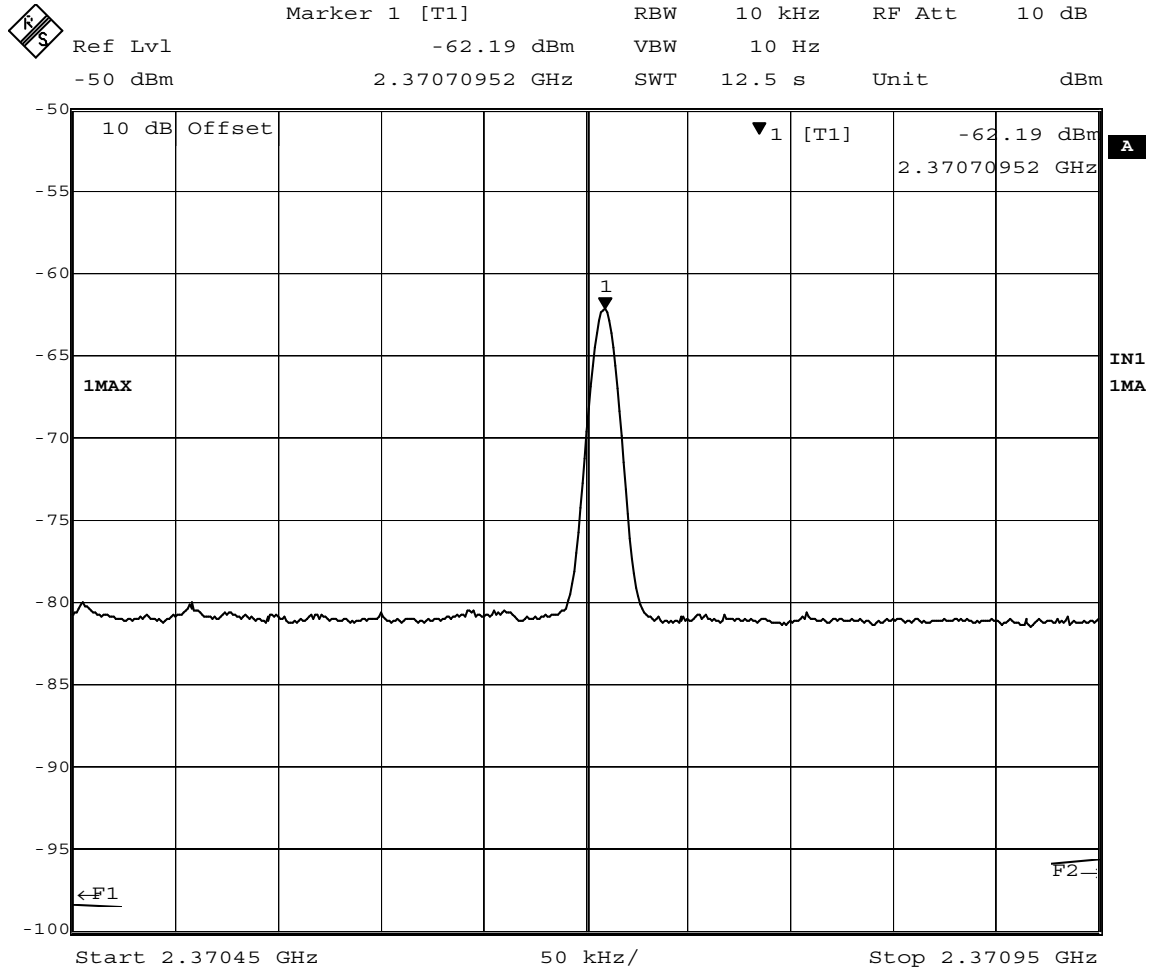
Date: 8.SEP.2003 14:14:57

Figure 27 Conducted Channel 1 Average measurement, RBW=300kHz



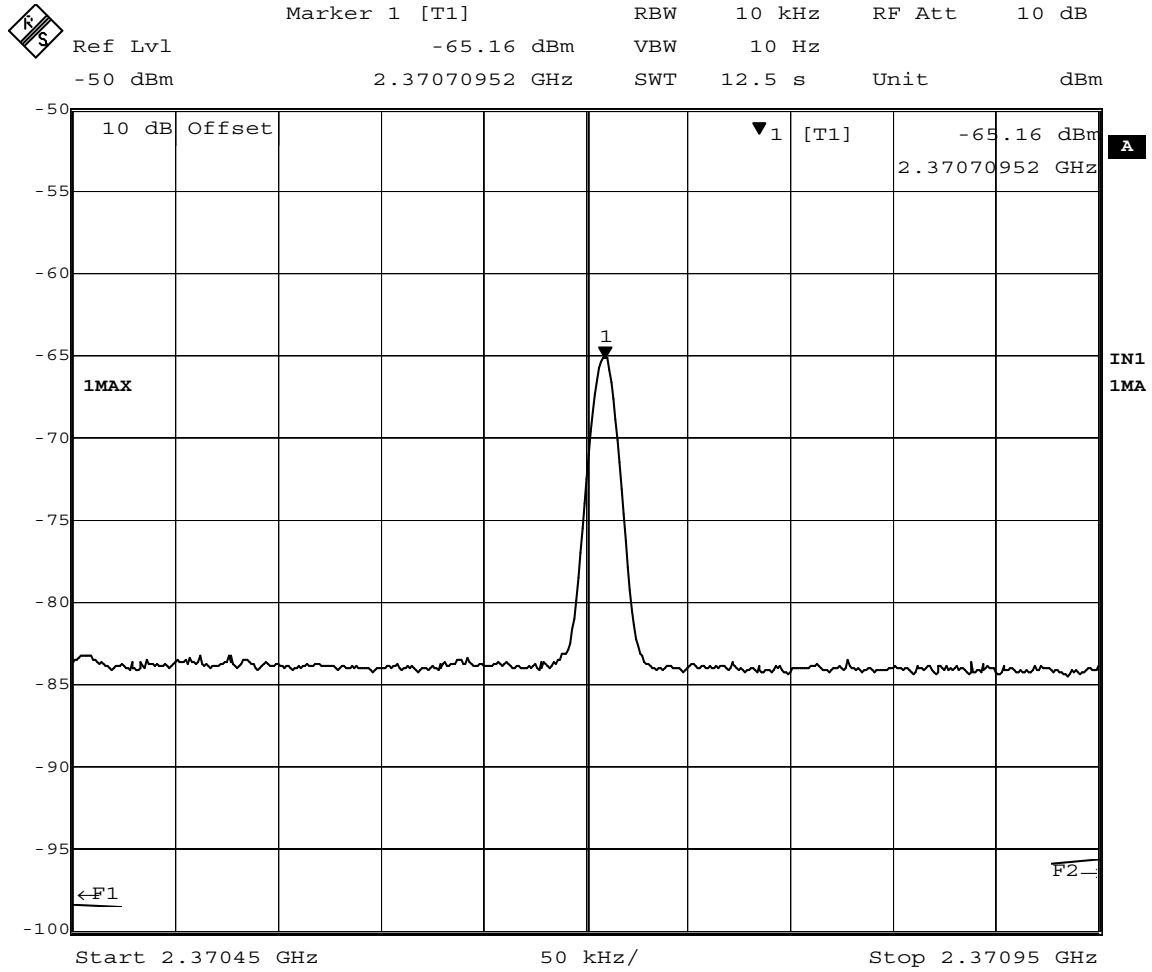
Date: 8.SEP.2003 14:22:16

Figure 28 Conducted Channel 1 Average measurement, RBW=100kHz



Date: 8.SEP.2003 14:26:37

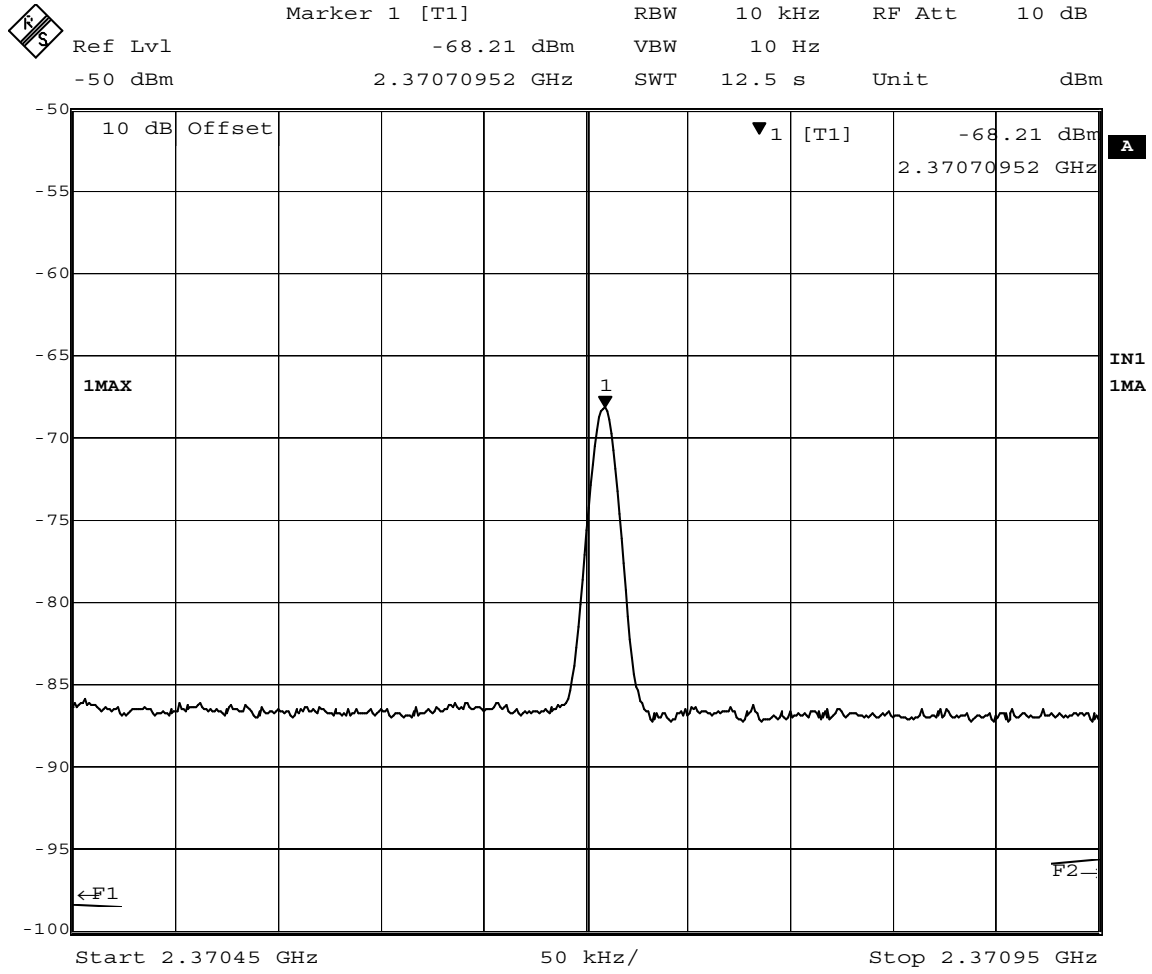
Figure 29 Conducted Channel 1 Average measurement, RBW=10kHz, 0dB Attenuation



Date: 8.SEP.2003 14:29:19

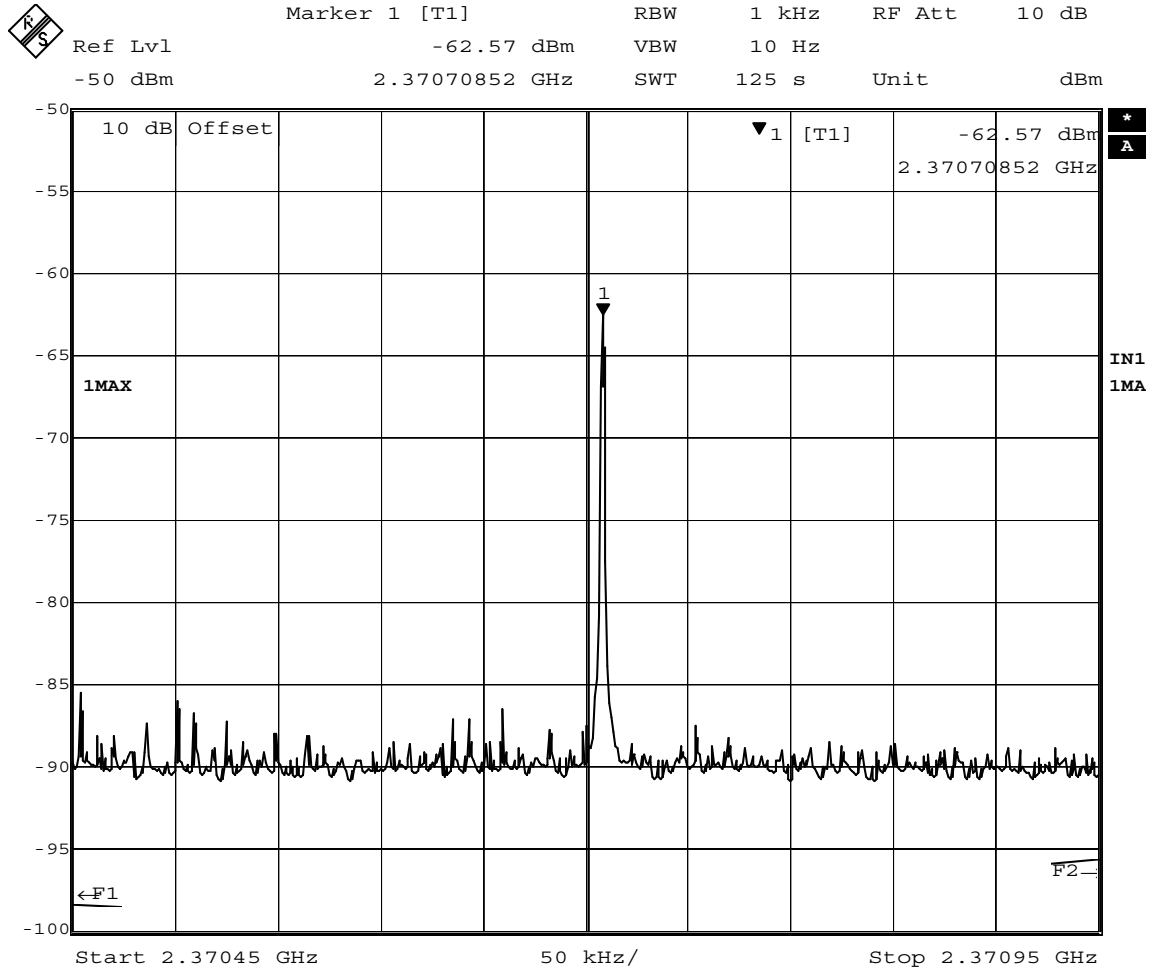
Figure 30 Conducted Channel 1 Average measurement, RBW=10kHz, 3dB Attenuation





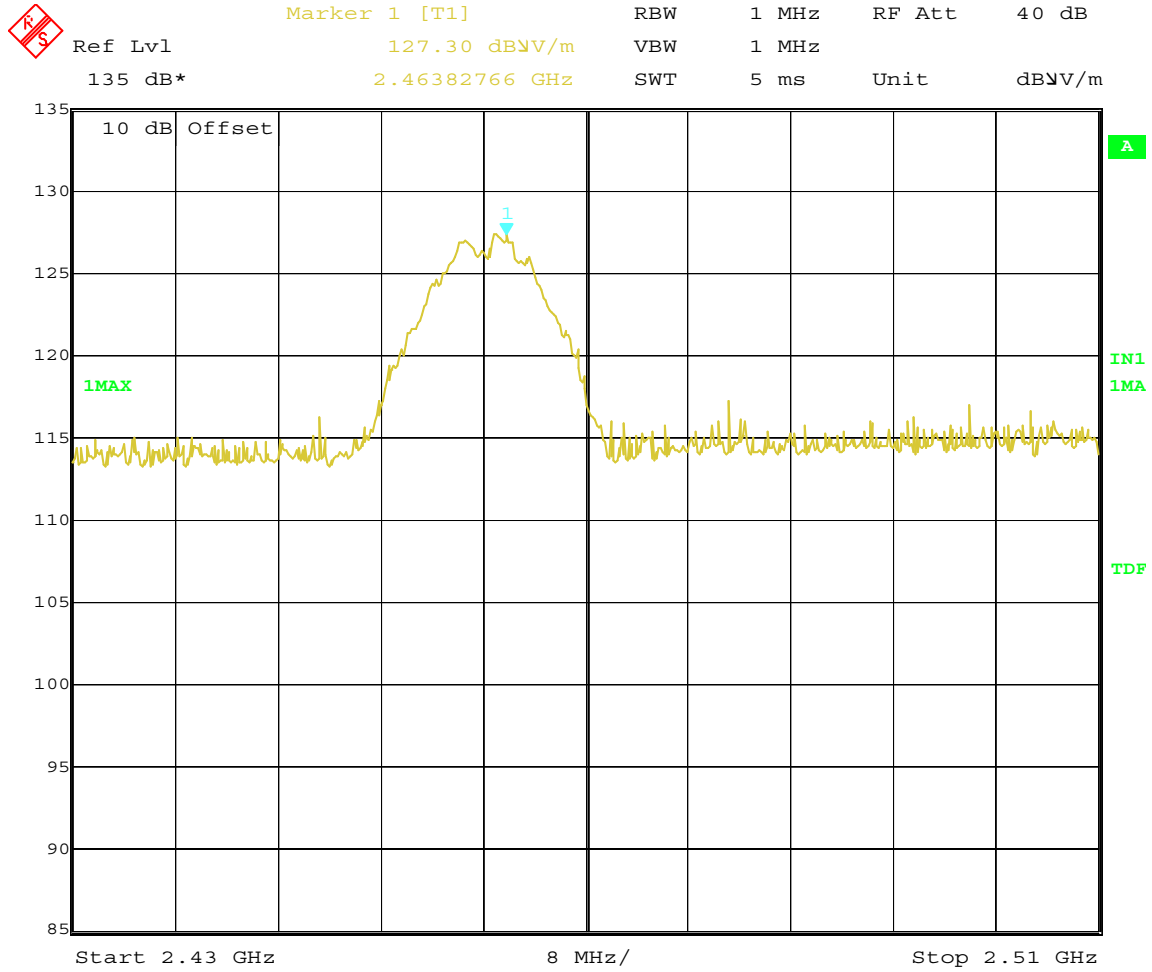
Date: 8.SEP.2003 14:30:29

Figure 31 Conducted Channel 1 Average measurement, RBW=10kHz, 6dB Attenuation



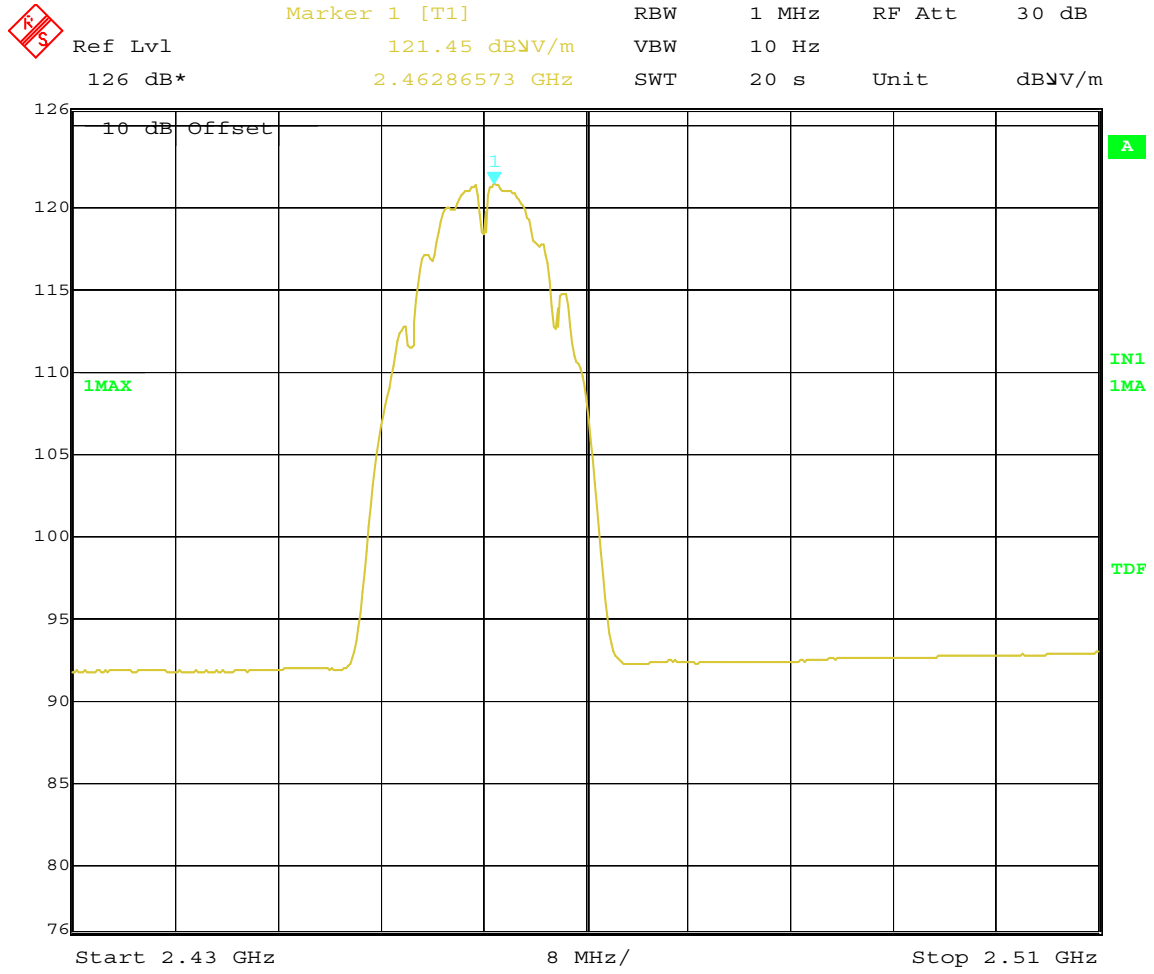
Date: 8.SEP.2003 14:33:33

Figure 32 Conducted Channel 1 Average measurement, RBW=1kHz



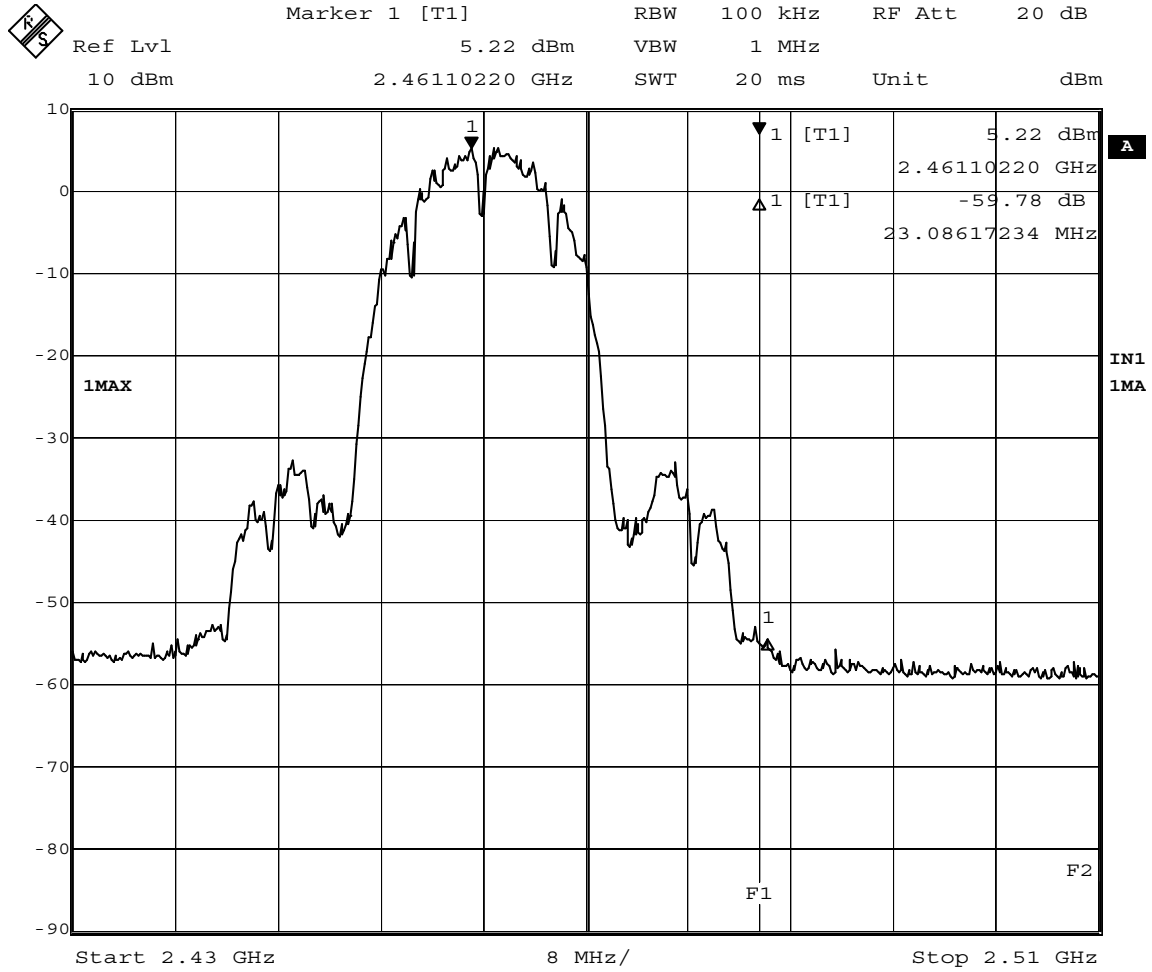
Date: 8.SEP.2003 11:05:30

Figure 33 Radiated Channel 11 Peak measurement



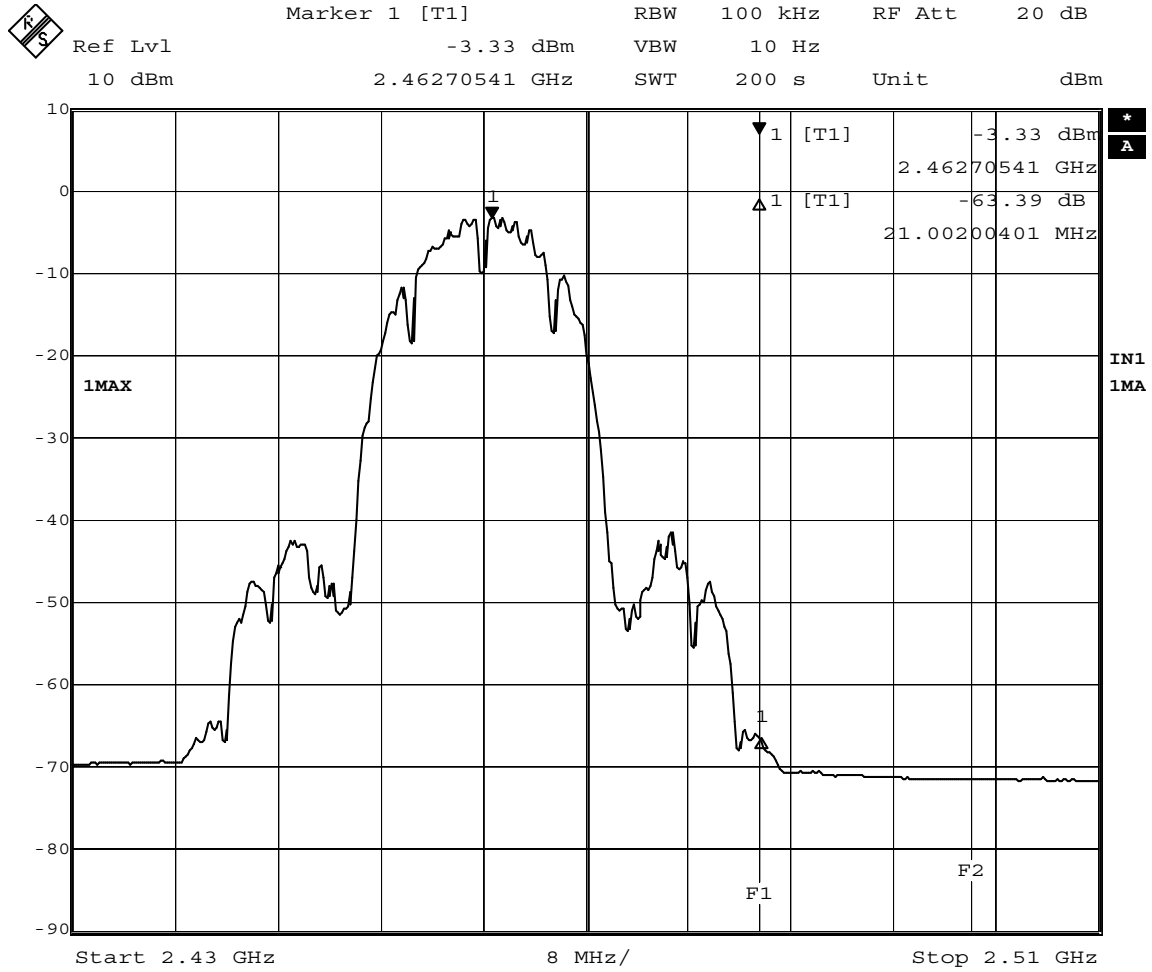
Date: 8.SEP.2003 11:03:51

Figure 34 Radiated Channel 11 Average measurement



Date: 22.AUG.2003 14:39:41

Figure 35 Conducted Channel 11 Peak measurement, RBW=100kHz



Date: 22.AUG.2003 14:43:52

Figure 36 Conducted Channel 11 Average measurement, RBW=100kHz

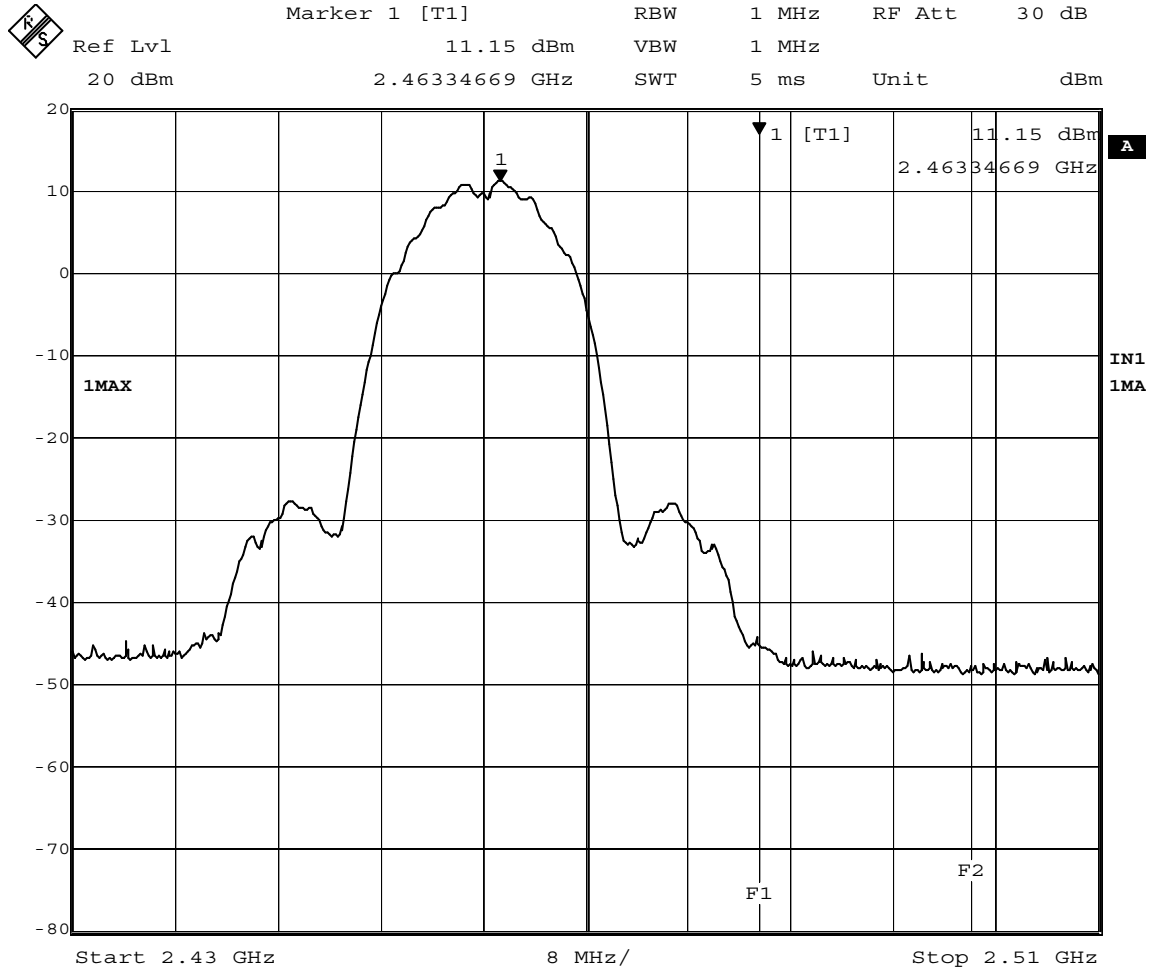
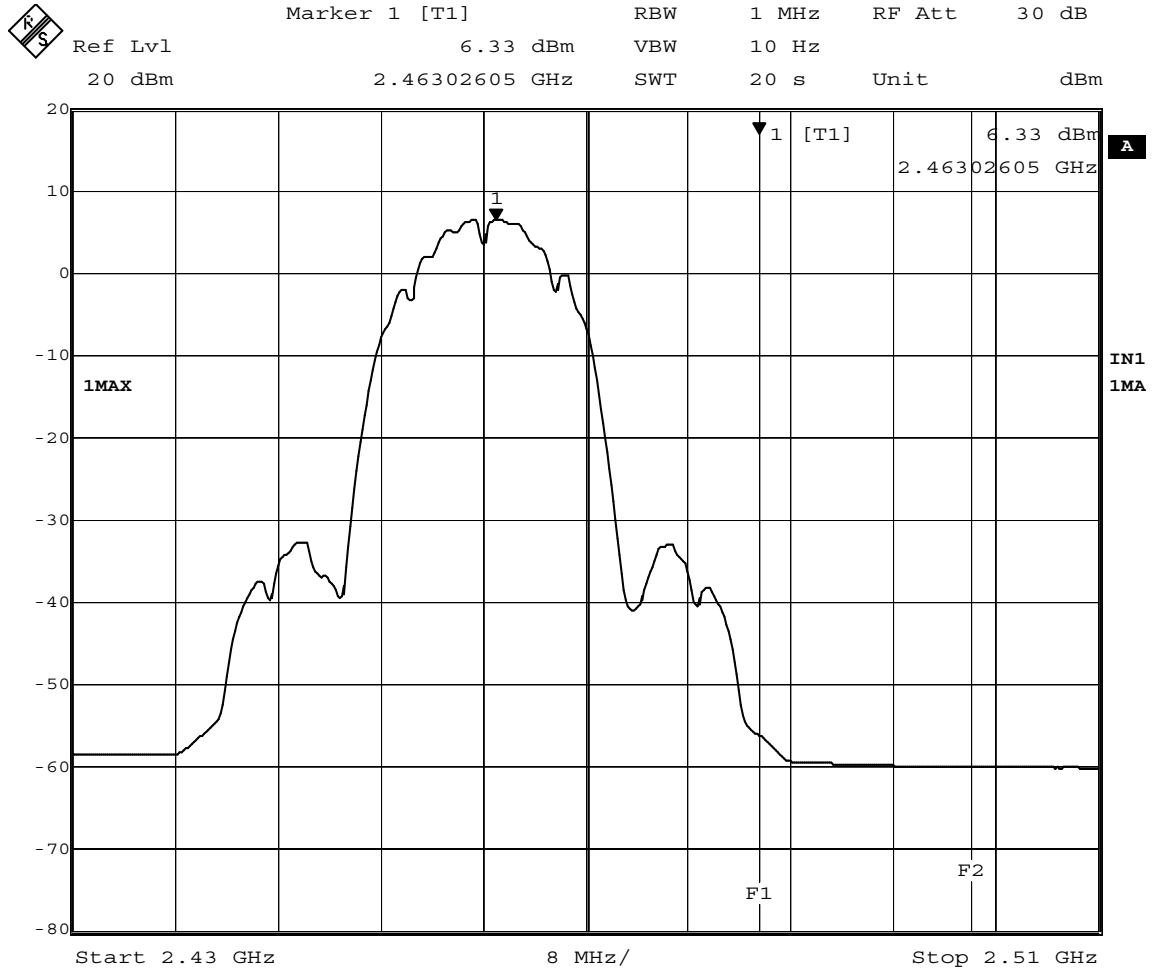


Figure 37 Conducted Channel 11 Peak measurement, RBW=1MHz



Date: 22.AUG.2003 14:50:50

Figure 38 Conducted Channel 11 Average measurement, RBW=1MHz