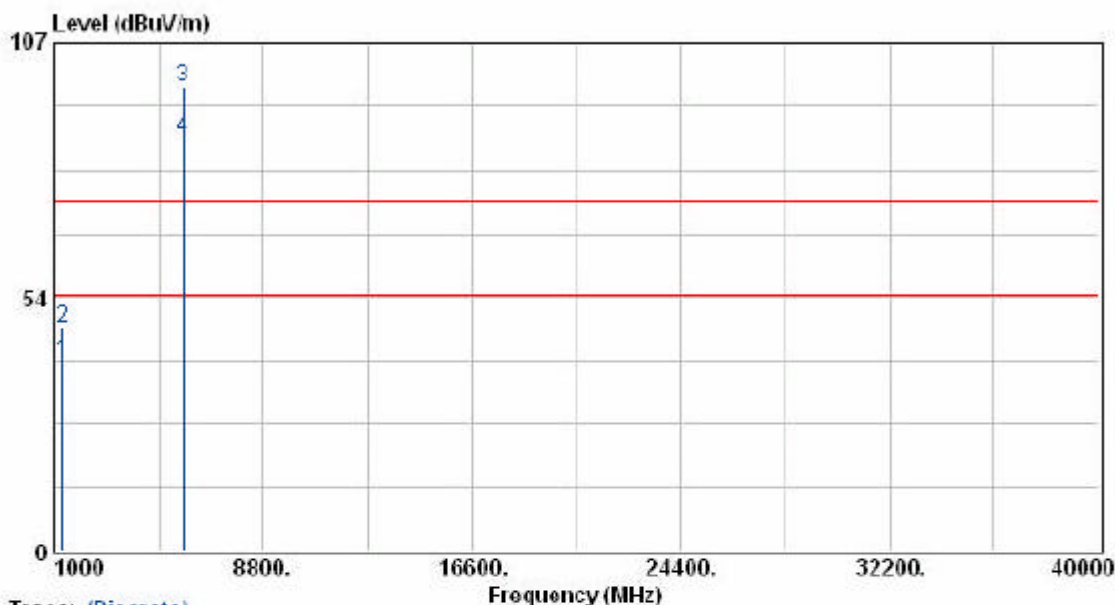


EUT	: IP906SM	Pol/Phase	: HORIZONTAL
Power	: 110V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 68 %
Operation Channel	: 11	Atmospheric Pressure	: 1030 mmHg
Modulation Type	: 802.11a	Memo	:
Rate	: 54 Mbps		



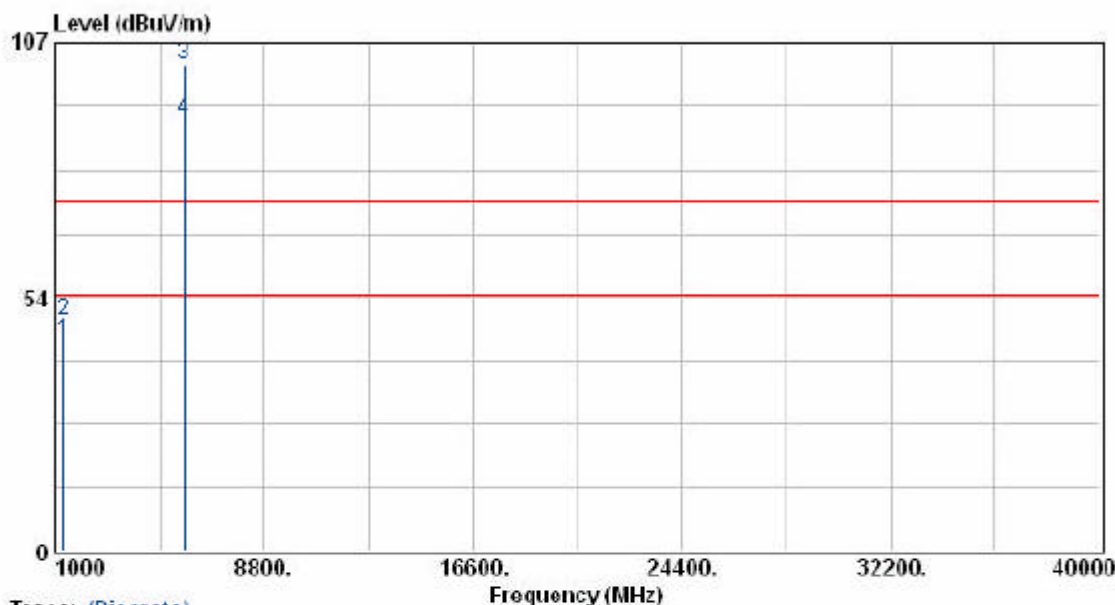
Trace: (Discrete)

Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
1280.00	44.59	-4.54	40.05	54.00	-13.95	Average	31	100
1280.00	51.50	-4.54	46.96	74.00	-27.04	Peak	31	100
5784.10	87.75	10.02	97.77	74.00	23.77	Peak	118	100
5784.10	76.68	10.02	86.70	54.00	32.70	Average	118	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT	: IP906SM	Pol/Phase	: VERTICAL
Power	: 110V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 68 %
Operation Channel	: 11	Atmospheric Pressure	: 1030 mmHg
Modulation Type	: 802.11a	Memo	:
Rate	: 54 Mbps		



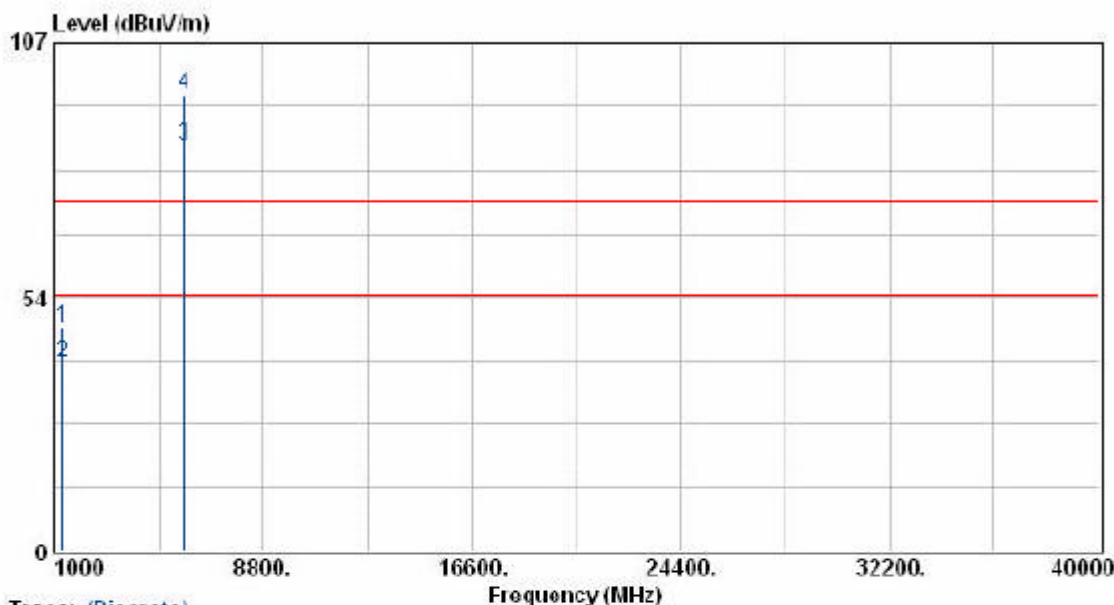
Trace: (Discrete)

Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
1280.00	49.42	-5.04	44.38	54.00	-9.62	Average	31	100
1280.00	53.76	-5.04	48.72	74.00	-25.28	Peak	31	100
5788.40	93.02	9.18	102.20	74.00	28.20	Peak	187	100
5788.40	81.38	9.18	90.56	54.00	36.56	Average	187	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT	: IP906SM	Pol/Phase	: HORIZONTAL
Power	: 110V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 68 %
Operation Channel	: 13	Atmospheric Pressure	: 1030 mmHg
Modulation Type	: 802.11a	Memo	:
Rate	: 54 Mbps		



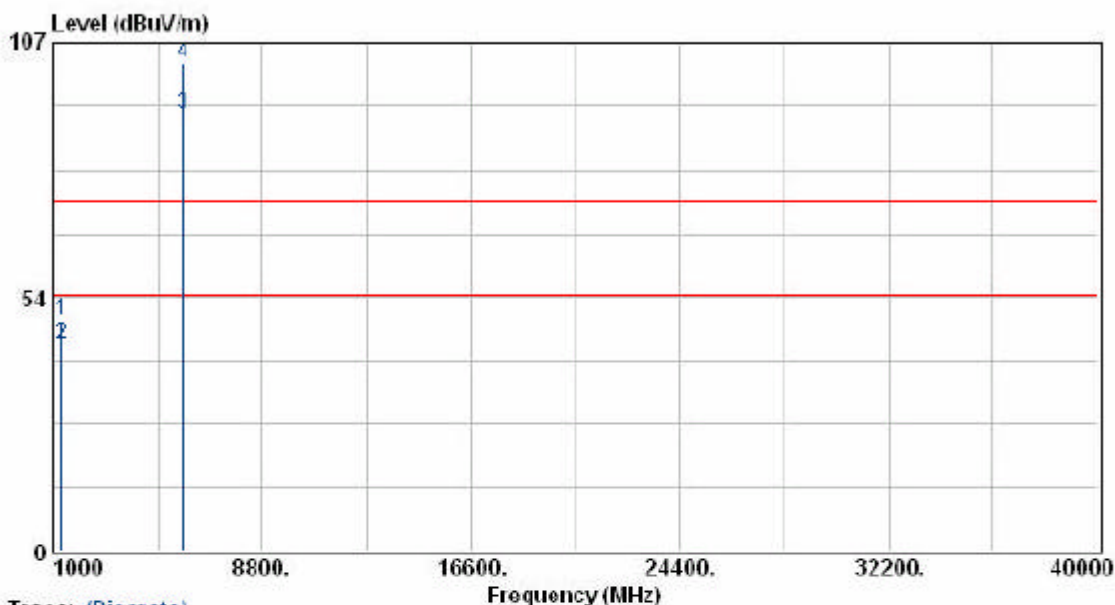
Trace: (Discrete)

Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
1280.00	51.65	-4.54	47.11	74.00	-26.89	Peak	31	100
1280.00	44.21	-4.54	39.67	54.00	-14.33	Average	31	100
5825.90	75.12	10.07	85.19	54.00	31.19	Average	118	100
5825.90	86.06	10.07	96.13	74.00	22.13	Peak	118	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

EUT	: IP906SM	Pol/Phase	: VERTICAL
Power	: 110V	Temperature	: 25 °C
Test Mode	: Transmit/Receive	Humidity	: 68 %
Operation Channel	: 13	Atmospheric Pressure	: 1030 mmHg
Modulation Type	: 802.11a	Memo	:
Rate	: 54 Mbps		



Trace: (Discrete)

Frequency (MHz)	Meter Reading (dBuV)	Corrected Factor (dBuV/m)	Result (dBuV/m)	Limit (dB)	Margin (dB)	Remark	Table Deg.	Ant High (cm)
1280.00	53.71	-5.04	48.67	74.00	-25.33	Peak	31	100
1280.00	48.68	-5.04	43.64	54.00	-10.36	Average	31	100
5826.00	82.76	9.24	92.00	54.00	38.00	Average	187	100
5826.00	93.29	9.24	102.53	74.00	28.53	Peak	187	100

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too below to be measured.

5.5.1. Test Photographs

Front View



Rear View

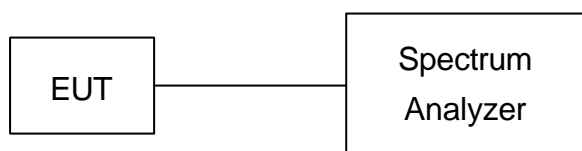


## 6. Peak Transmit Power

### 6.1 Test Procedure

The antenna port (RF output ) of the EUT was connected to the input (RF input) of a spectrum analyzer. Power was read directly from the spectrum analyzer and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

### 6.2 Test Setup Layout



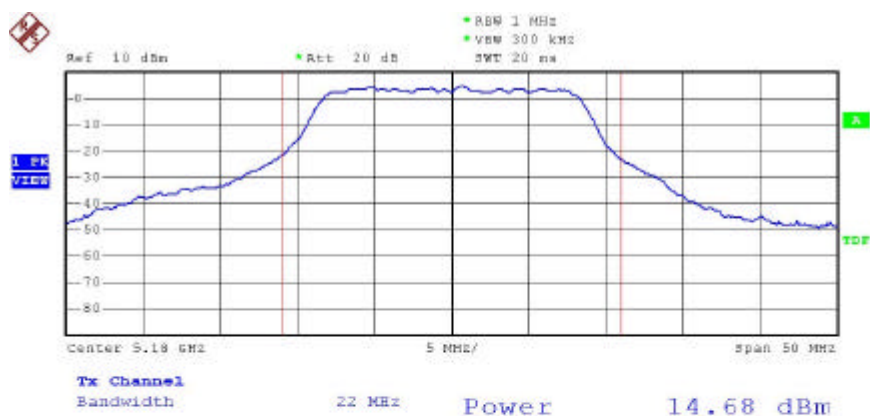
### 6.3 Test Result and Data

Test Mode: Normal, Transmit Rate: 54Mbps

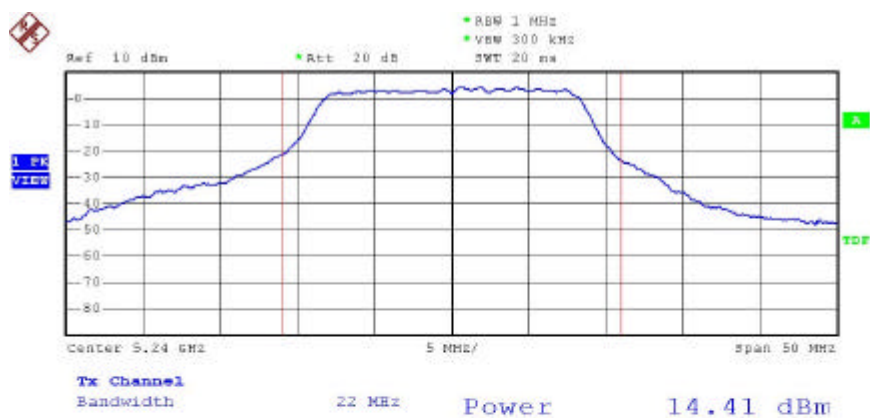
Test Date: May. 06, 2005 Temperature: 25 Humidity:55% Atmospheric pressure: 1021mmHg

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)	26dB Occupied Bandwidth (MHz)
1	5180	14.68	29.377	22.0
4	5240	14.41	27.606	22.3
5	5260	14.46	27.925	21.6
8	5320	14.48	28.054	21.8
9	5745	16.03	40.087	22.1
11	5785	15.48	35.318	22.0
13	5825	15.20	33.113	22.2

Peak Transmit Power



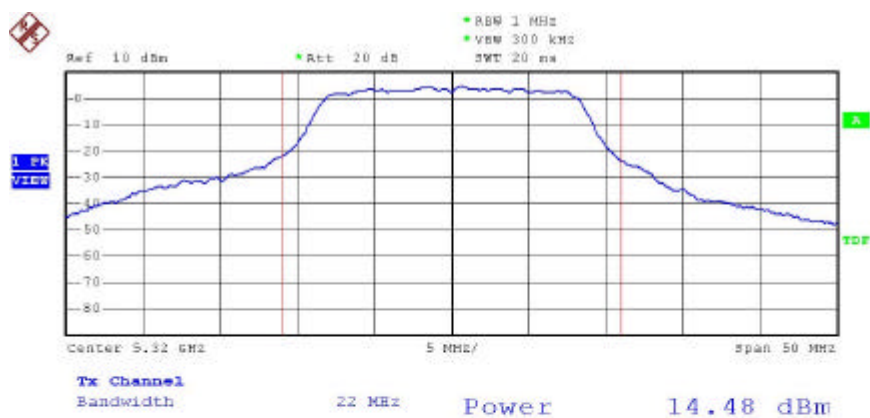
Date: 6.MAY.2005 16:43:17



Date: 6.MAY.2005 16:47:16



Date: 6.MAY.2005 16:49:23

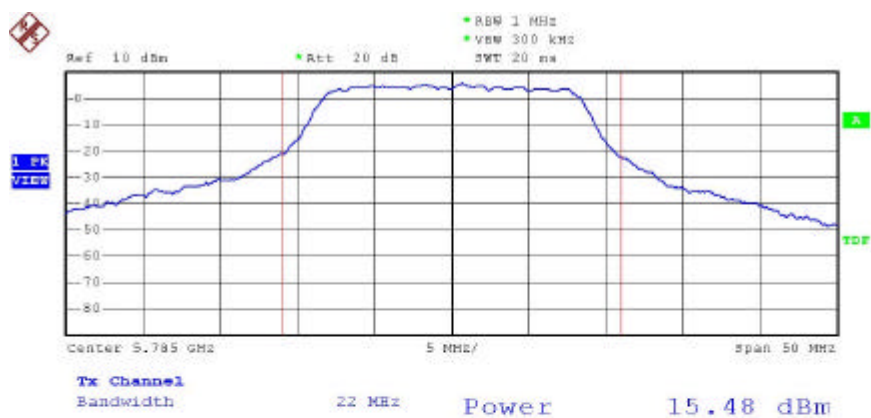


Date: 6.MAY.2005 16:51:23

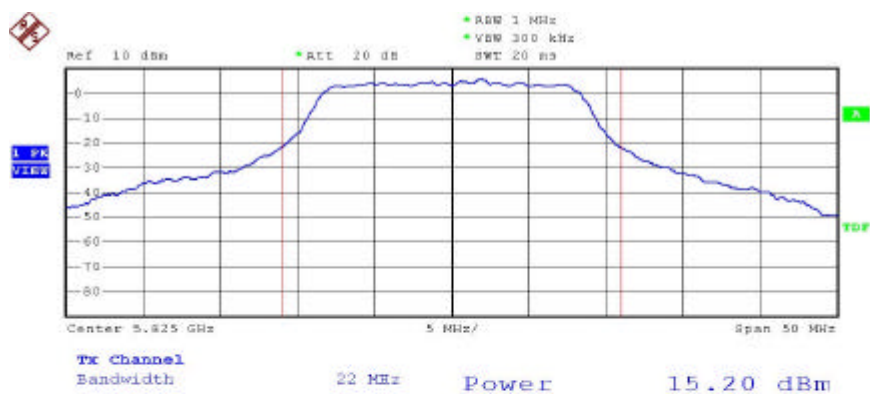




Date: 6.MAY.2005 16:57:06

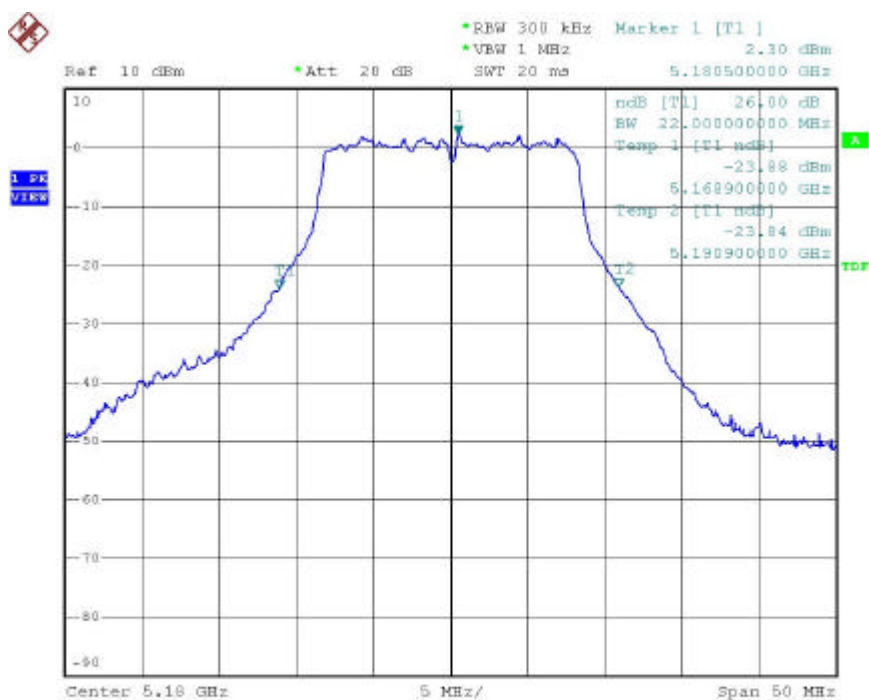


Date: 6.MAY.2005 16:55:01

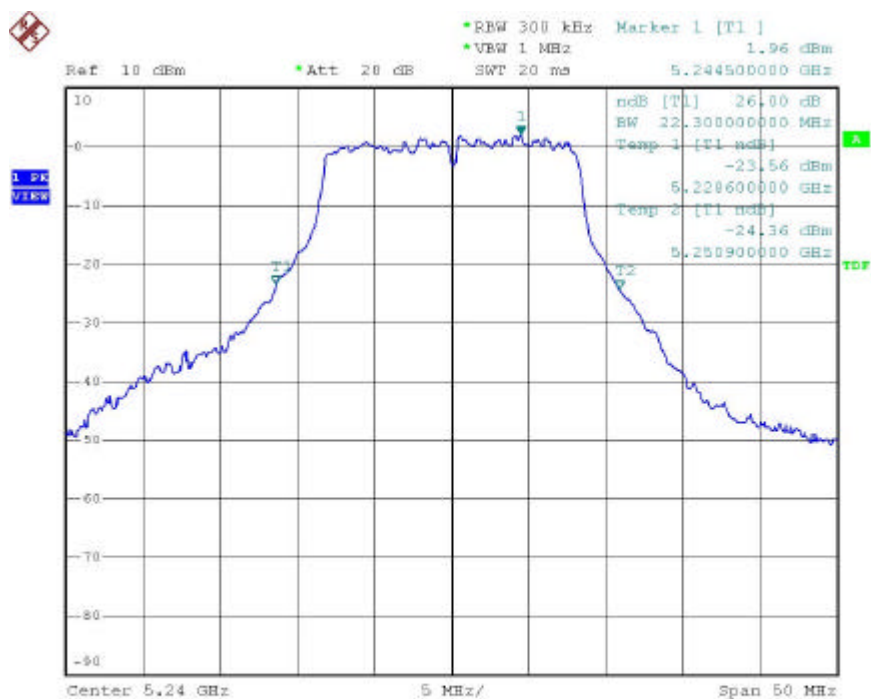


Date: 6.MAY.2005 16:59:08

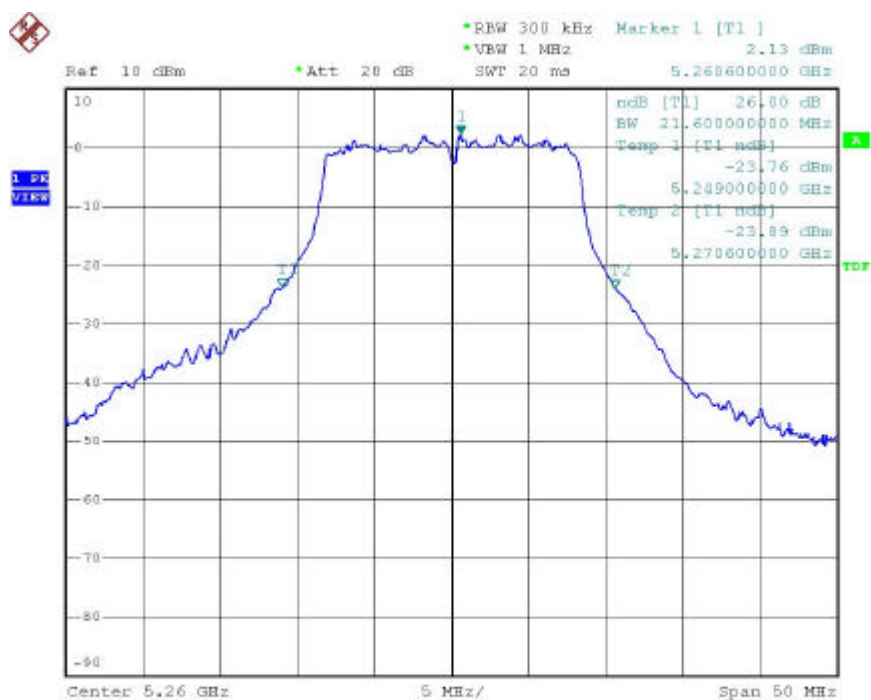
26dB Occupied Bandwidth (MHz)



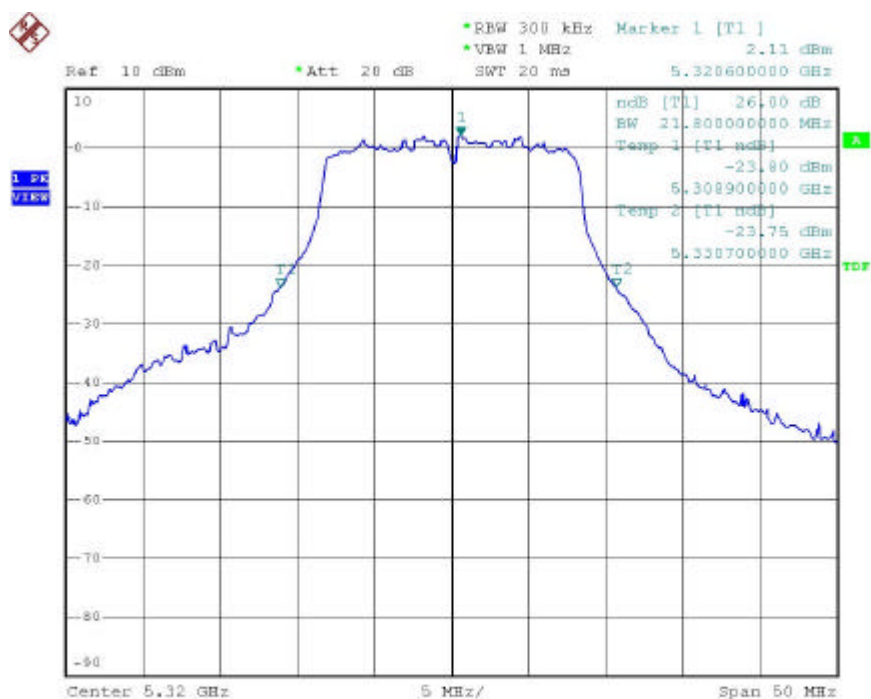
Date: 6.MAY.2005 16:42:37



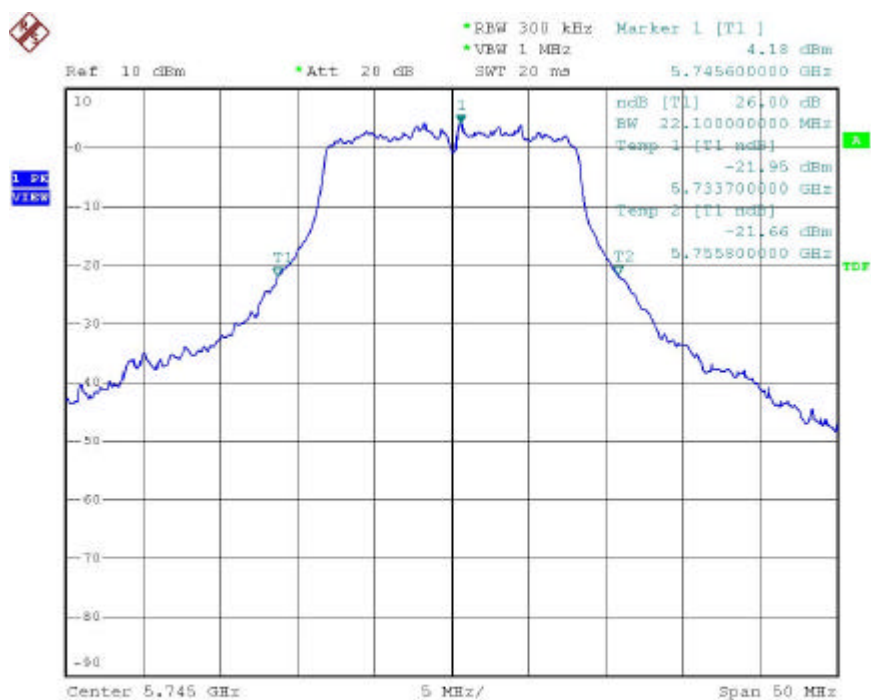
Date: 6.MAY.2005 16:46:02



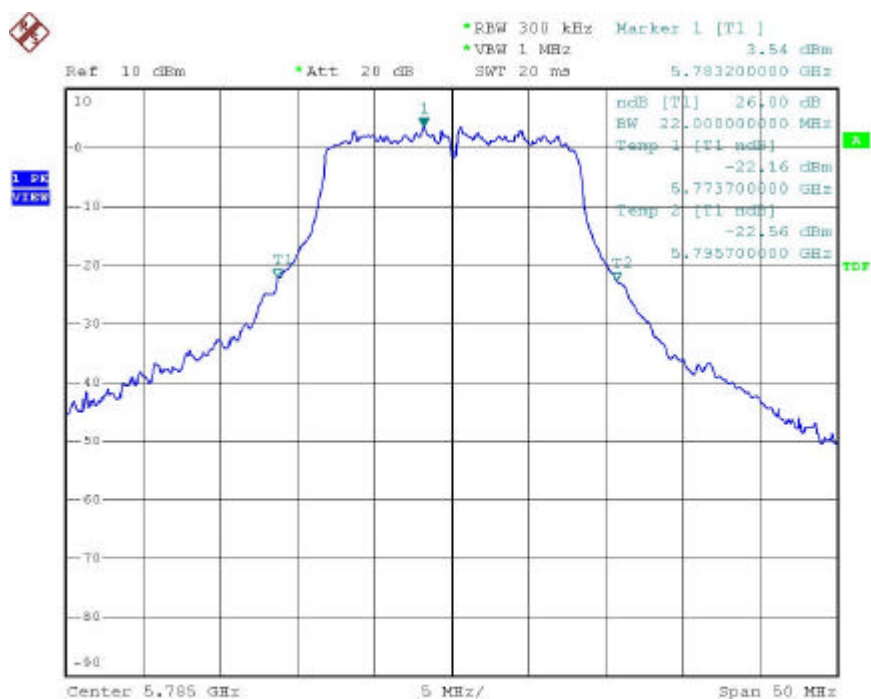
Date: 6.MAY.2005 16:48:40



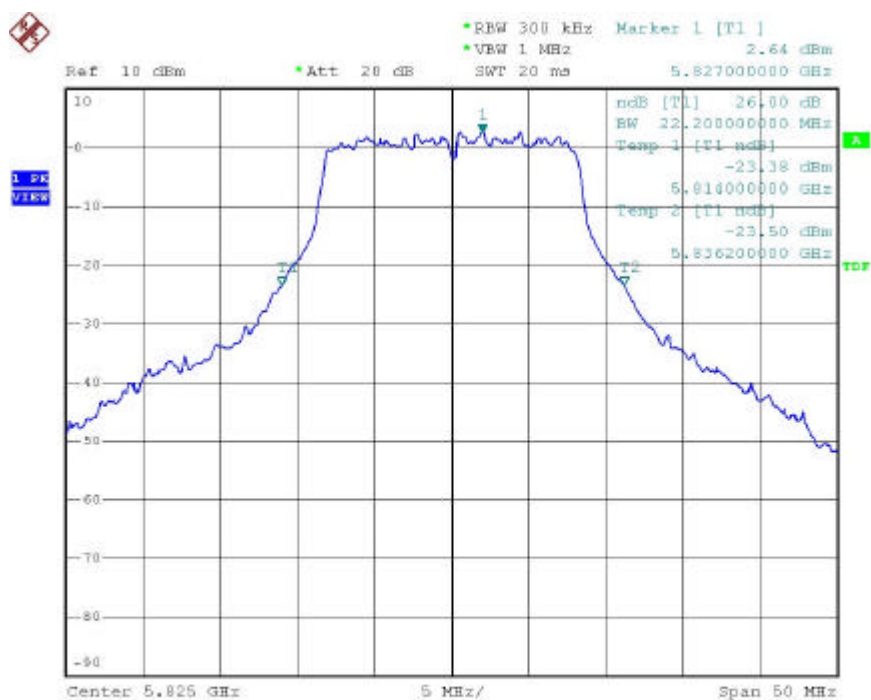
Date: 6.MAY.2005 16:50:44



Date: 6.MAY.2005 16:56:13



Date: 6.MAY.2005 16:54:10



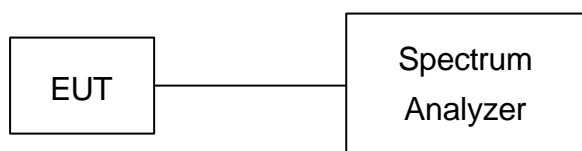
Date: 6.MAY.2005 16:58:26

## 7. Peak Power Excursion

### 7.1 Test Procedure

- 1.The transmitter output was connected to the spectrum analyzer.
- 2.Using Peak detector and max-hold function for Trace 1 MHz and VBW to 3 MHz for Trace 1.
- 3.Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz for Trace 1.  
Set RBW of spectrum analyzer to 1 MHz and VBW to 300 kHz for Trace 2.
- 4.The largest difference between Trace 1 and Trace 2 in any 1 MHz band on any frequency was recorded.

### 7.2 Test Setup Layout

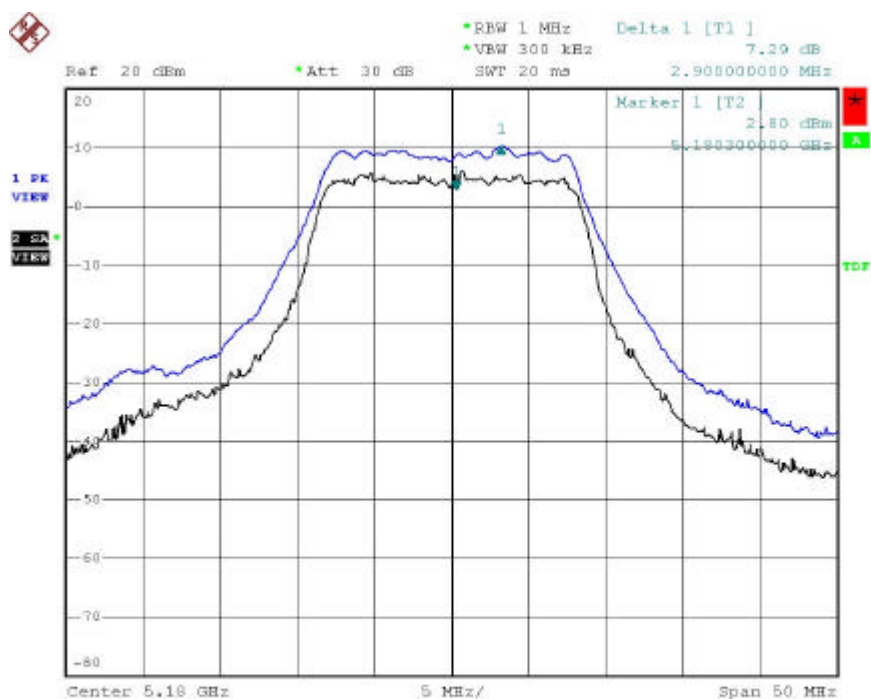


### 7.3 Test Result and Data

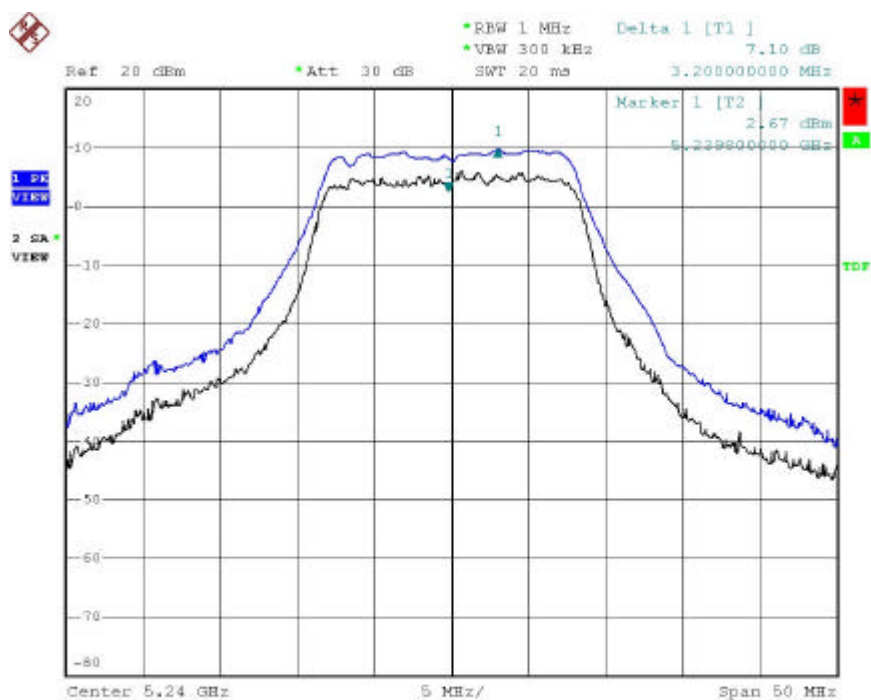
Test Mode: Normal, Transmit Rate: 54Mbps

Test Date: May. 06, 2005    Temperature: 25    Humidity: 55%    Atmospheric pressure: 1021mmHg

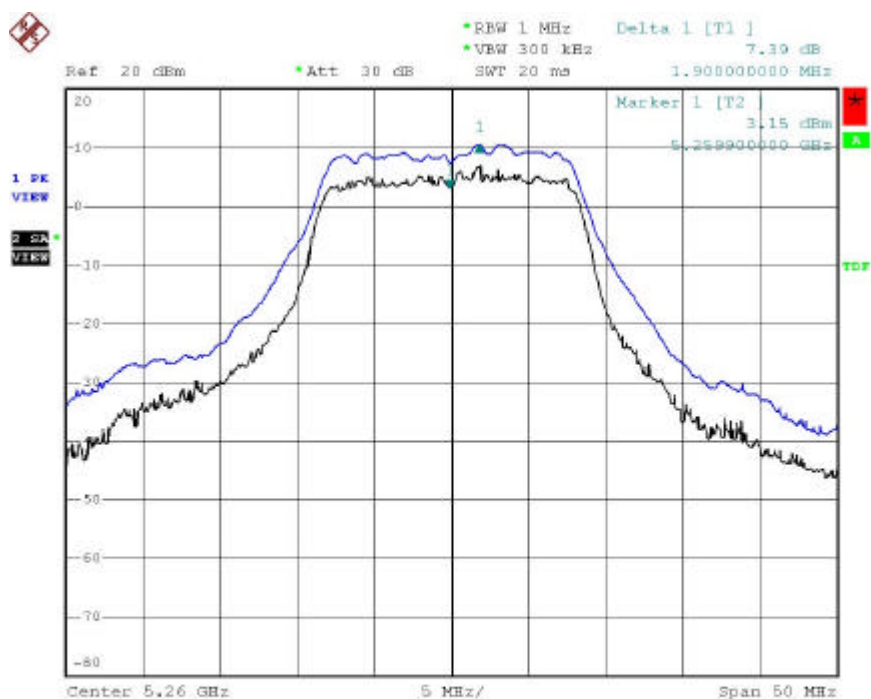
Channel	Frequency (MHz)	Peak Power Excursion (dBm)
1	5180	7.29
4	5240	7.10
5	5260	7.39
8	5320	6.34
9	5745	8.19
11	5785	7.16
13	5825	8.11



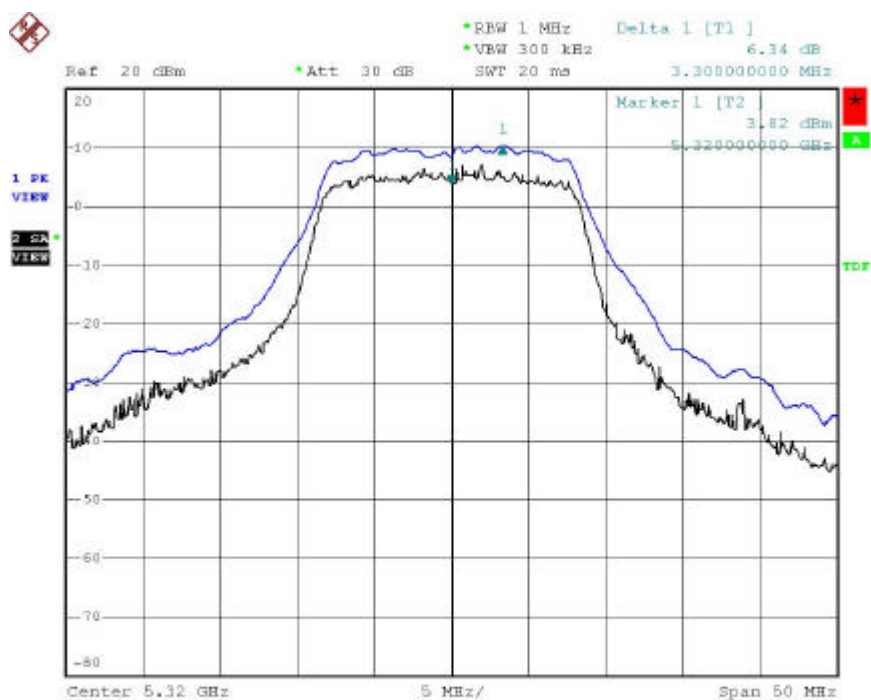
Date: 6.MAY.2005 18:03:52



Date: 6.MAY.2005 18:07:52

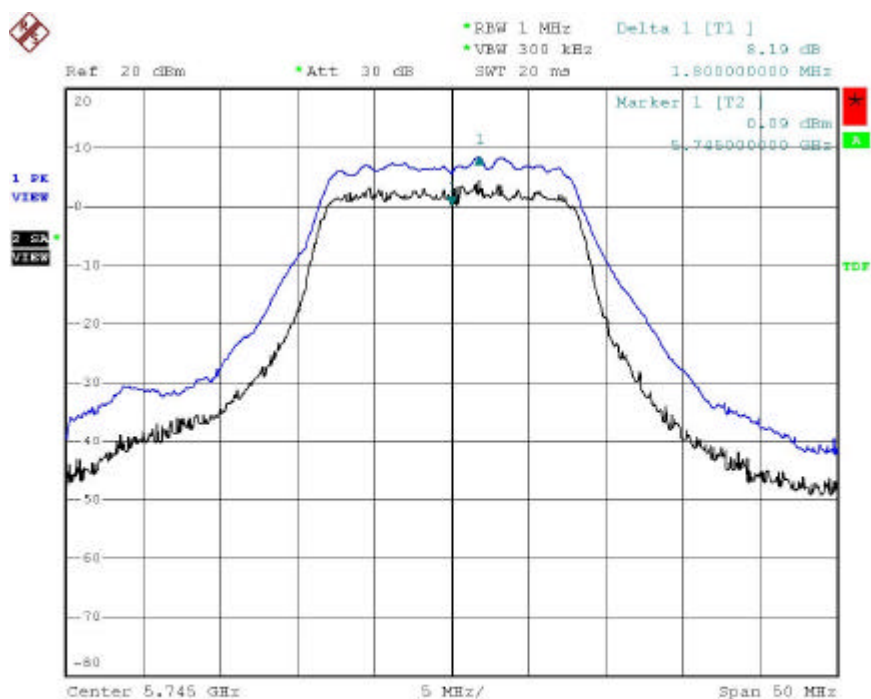


Date: 6.MAY.2005 18:13:03

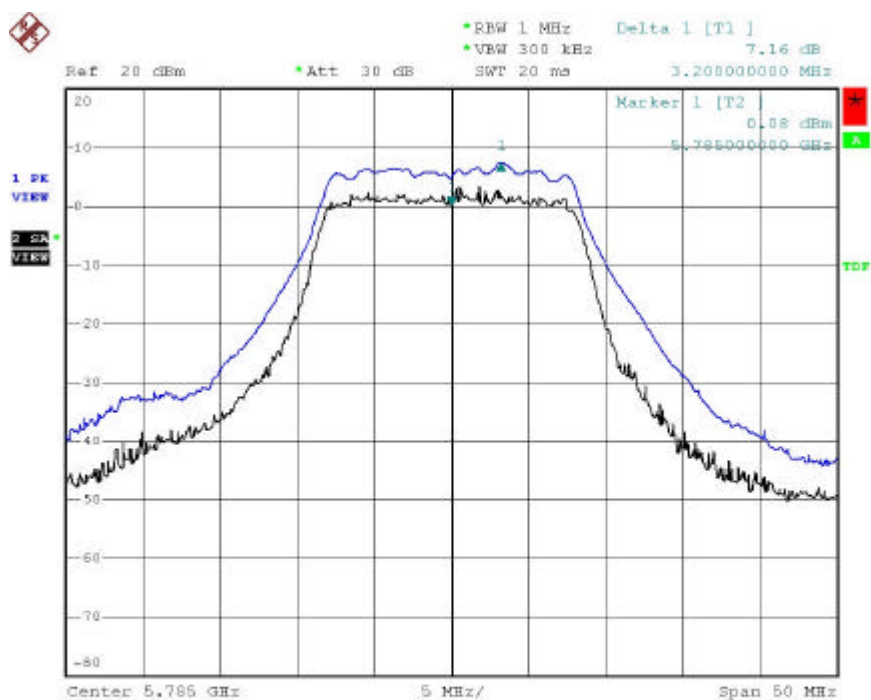


Date: 6.MAY.2005 18:15:58





Date: 6.MAY.2005 18:18:03



Date: 6.MAY.2005 18:19:47