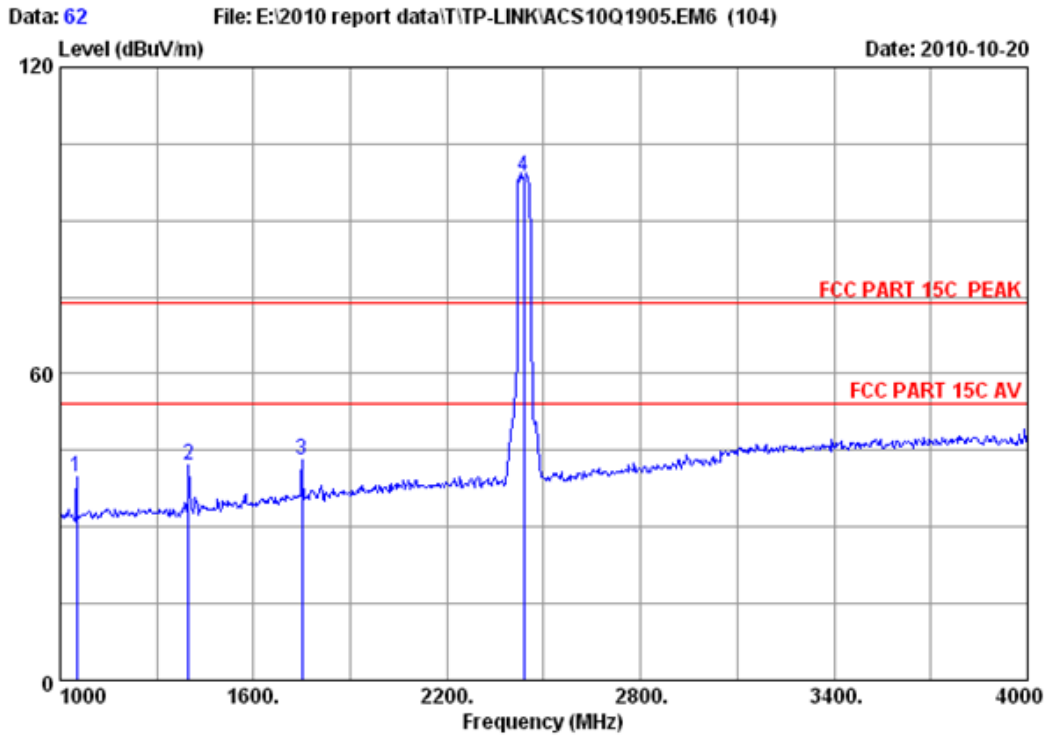


Site no. : RF Chamber Data no. : 61  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1051.000	25.50	4.86	37.81	44.86	37.41	74.00	36.59	Peak
2	1399.000	26.19	5.50	37.18	46.30	40.81	74.00	33.19	Peak
3	1750.000	27.80	6.18	36.86	46.45	43.57	74.00	30.43	Peak
4	2437.000	29.47	7.46	36.61	109.54	109.86	74.00	-35.86	Peak

Remarks:  
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

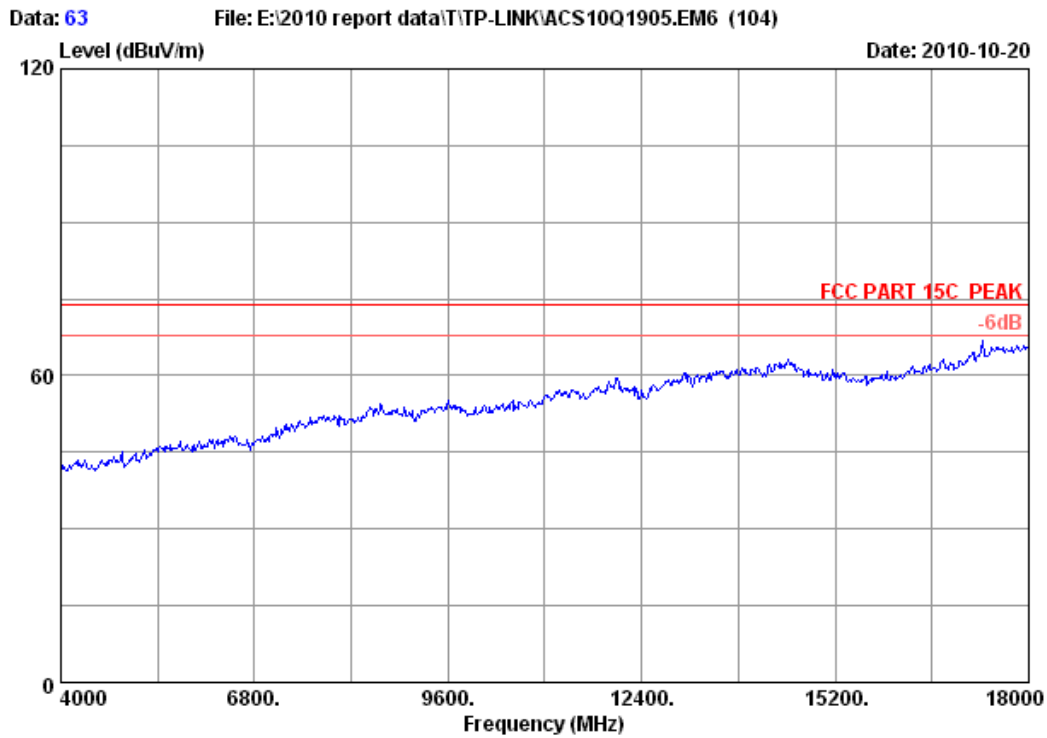


Site no. : RF Chamber Data no. : 62  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx  
 M/N : TL-WR741ND

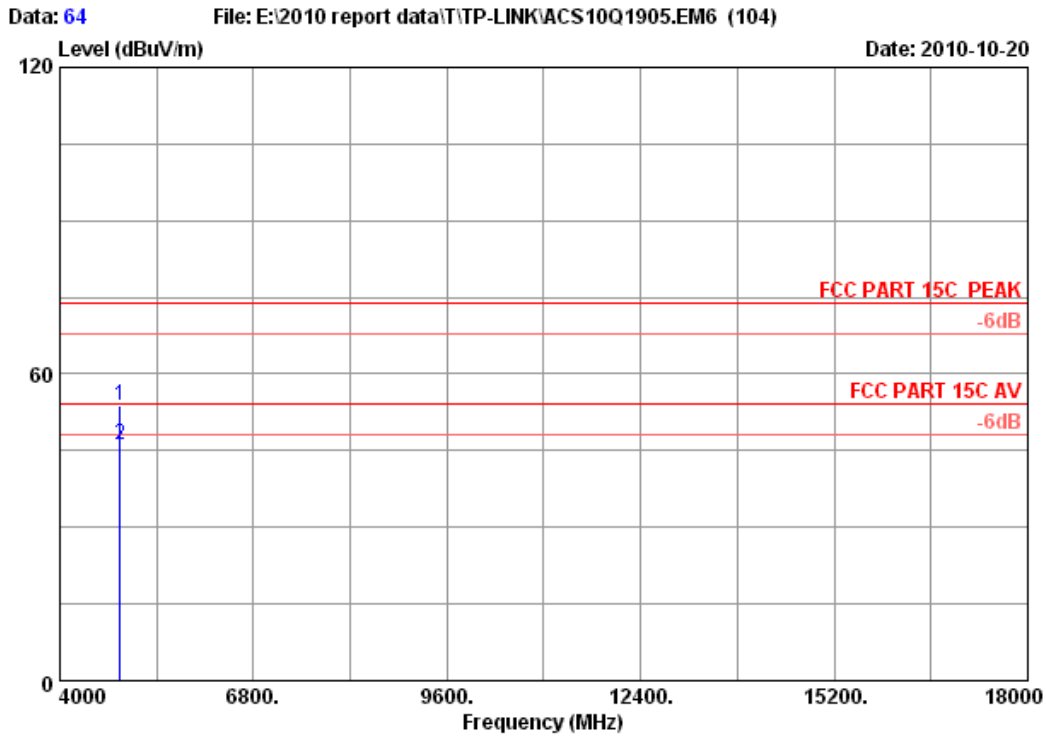
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1051.000	25.50	4.86	37.81	47.32	39.87	74.00	34.13	Peak
2	1399.000	26.19	5.50	37.18	47.52	42.03	74.00	31.97	Peak
3	1750.000	27.80	6.18	36.86	45.86	42.98	74.00	31.02	Peak
4	2437.000	29.47	7.46	36.61	98.36	98.68	74.00	-24.68	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 63  
Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
EUT : 150Mbps Wireless N Router  
Power : DC 9V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx  
M/N : TL-WR741ND

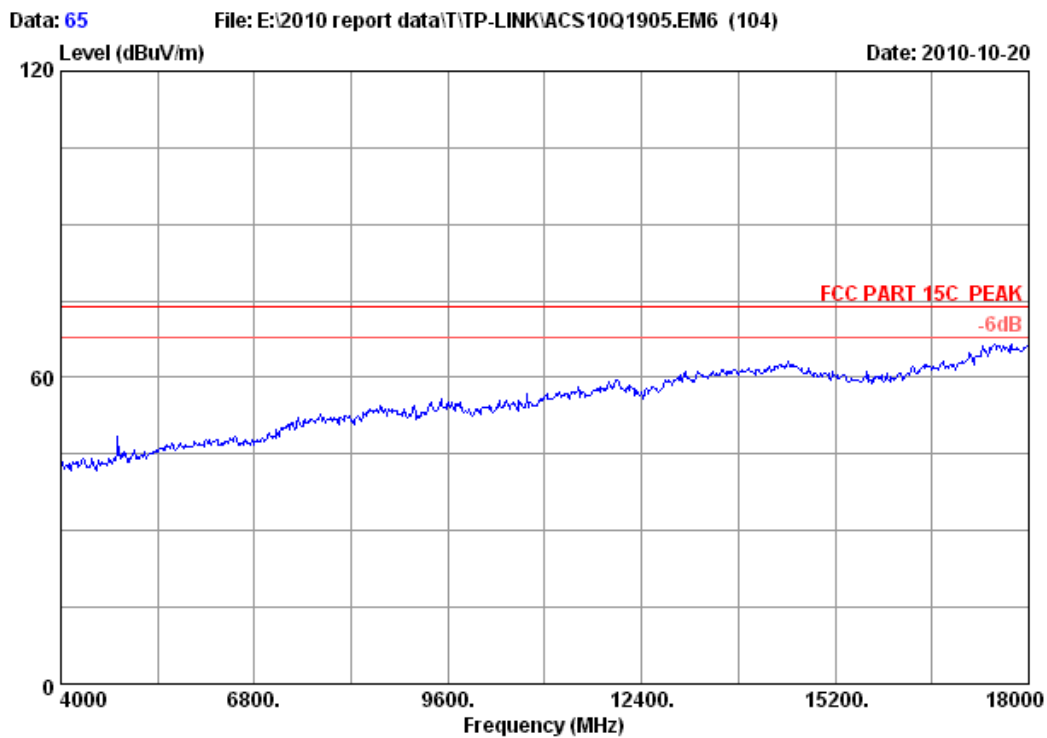


Site no. : RF Chamber Data no. : 64  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx  
 M/N : TL-WR741ND

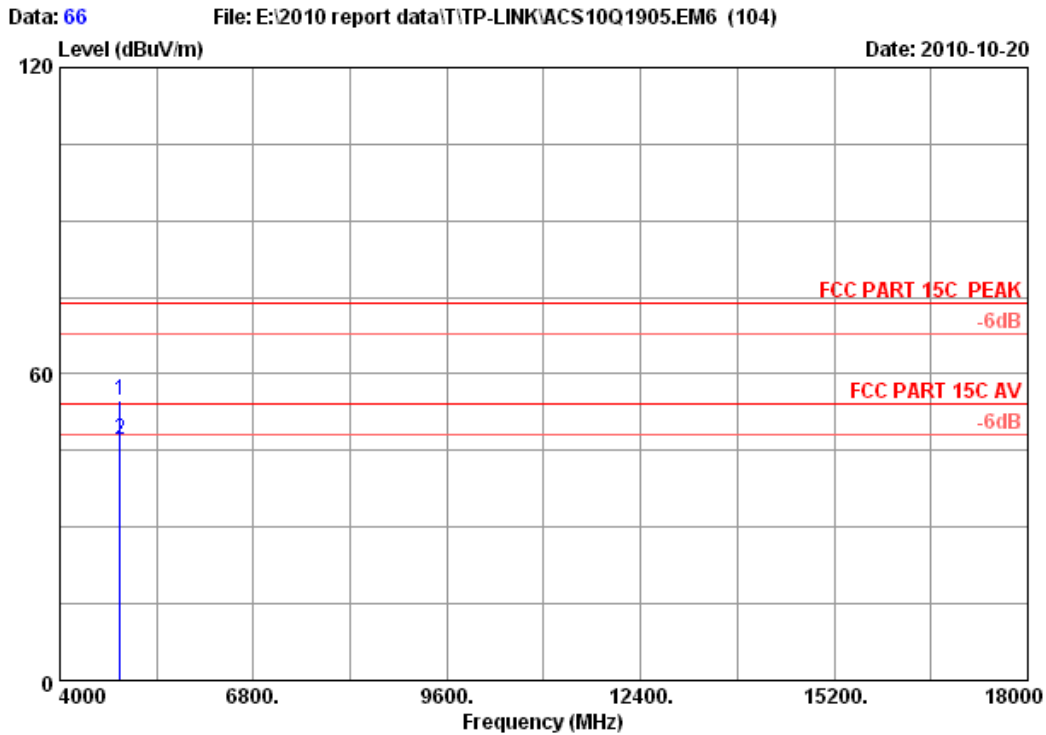
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	4874.000	34.41	10.69	35.03	43.69	53.76	74.00	20.24	Peak
2	4874.000	34.41	10.69	35.03	35.94	46.01	54.00	7.99	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 65  
Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
EUT : 150Mbps Wireless N Router  
Power : DC 9V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11n HT40 CH4 2437MHz Tx  
M/N : TL-WR741ND

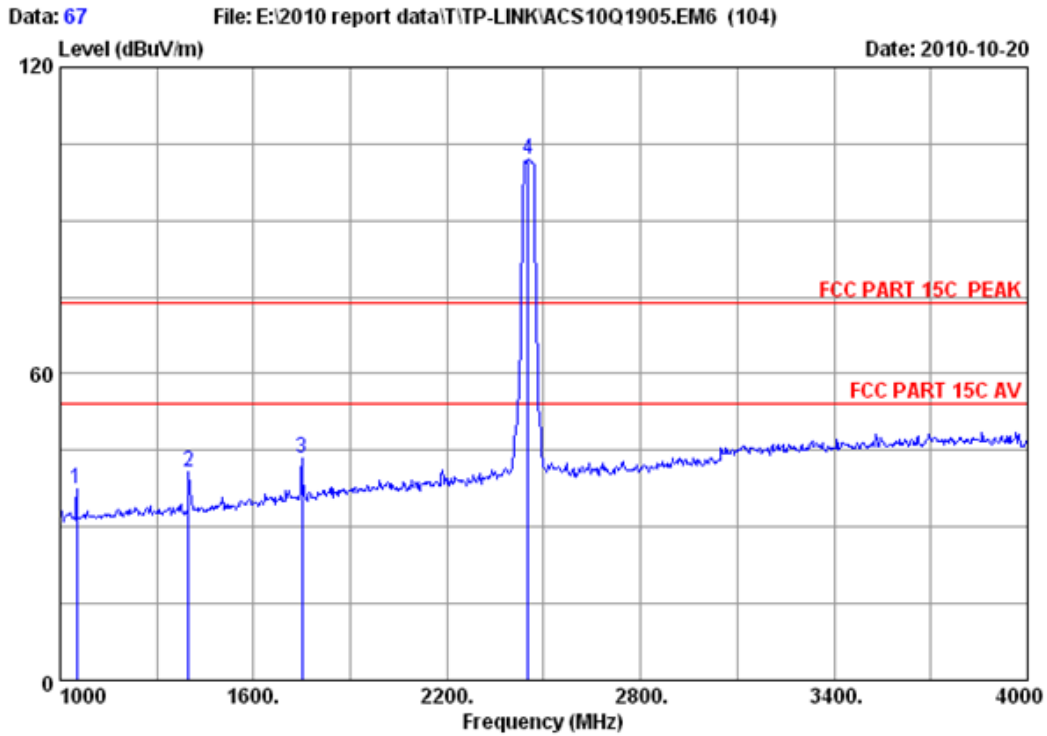


Site no. : RF Chamber Data no. : 66  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH4 2437MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	34.41	10.69	35.03	44.68	54.75	74.00	19.25	Peak
2	4874.000	34.41	10.69	35.03	37.14	47.21	54.00	6.79	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

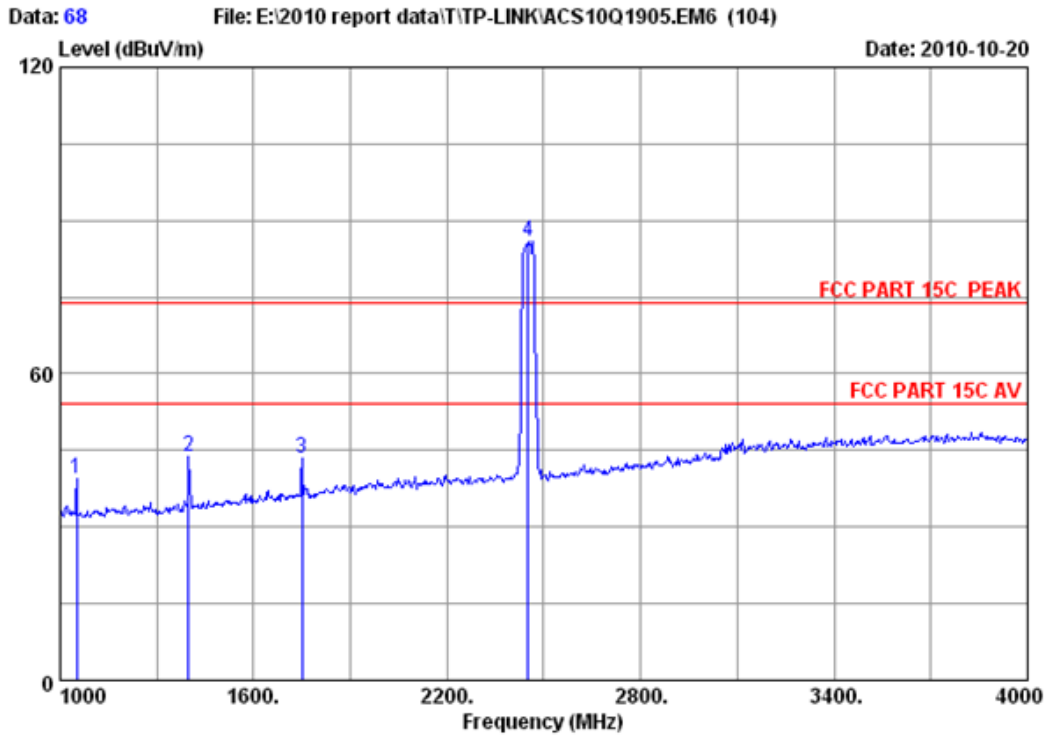


Site no. : RF Chamber Data no. : 67  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1051.000	25.50	4.86	37.81	44.83	37.38	74.00	36.62	Peak
2	1399.000	26.19	5.50	37.18	46.28	40.79	74.00	33.21	Peak
3	1750.000	27.80	6.18	36.86	46.43	43.55	74.00	30.45	Peak
4	2452.000	29.47	7.50	36.61	101.58	101.94	74.00	-27.94	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

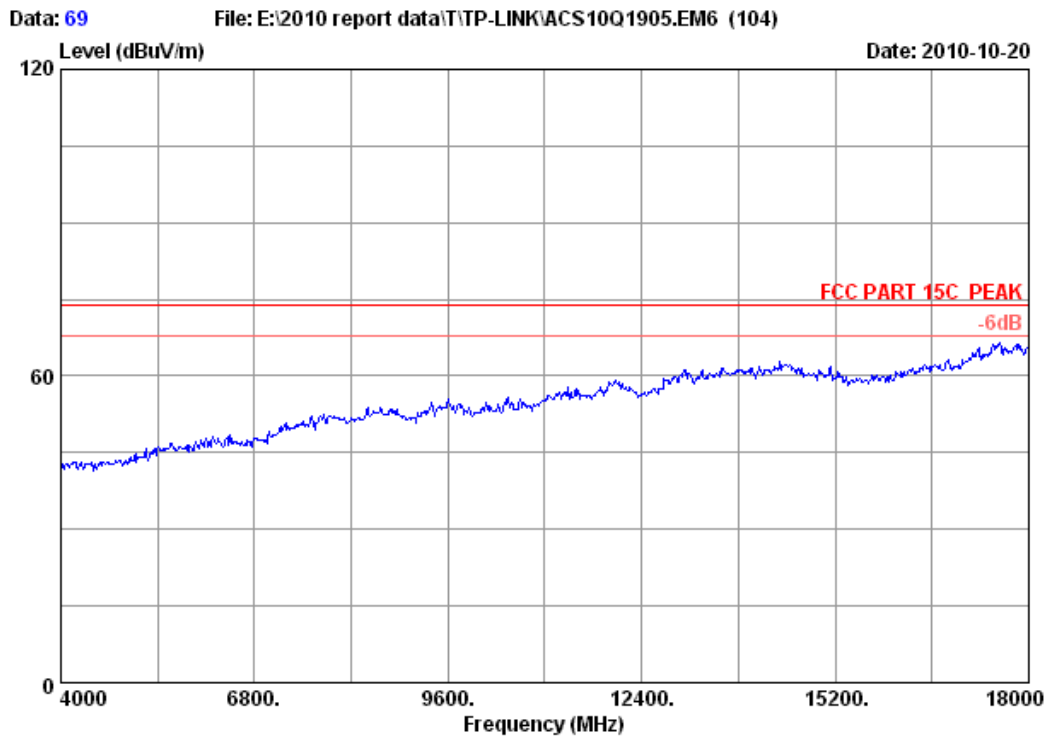


Site no. : RF Chamber Data no. : 68  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx  
 M/N : TL-WR741ND

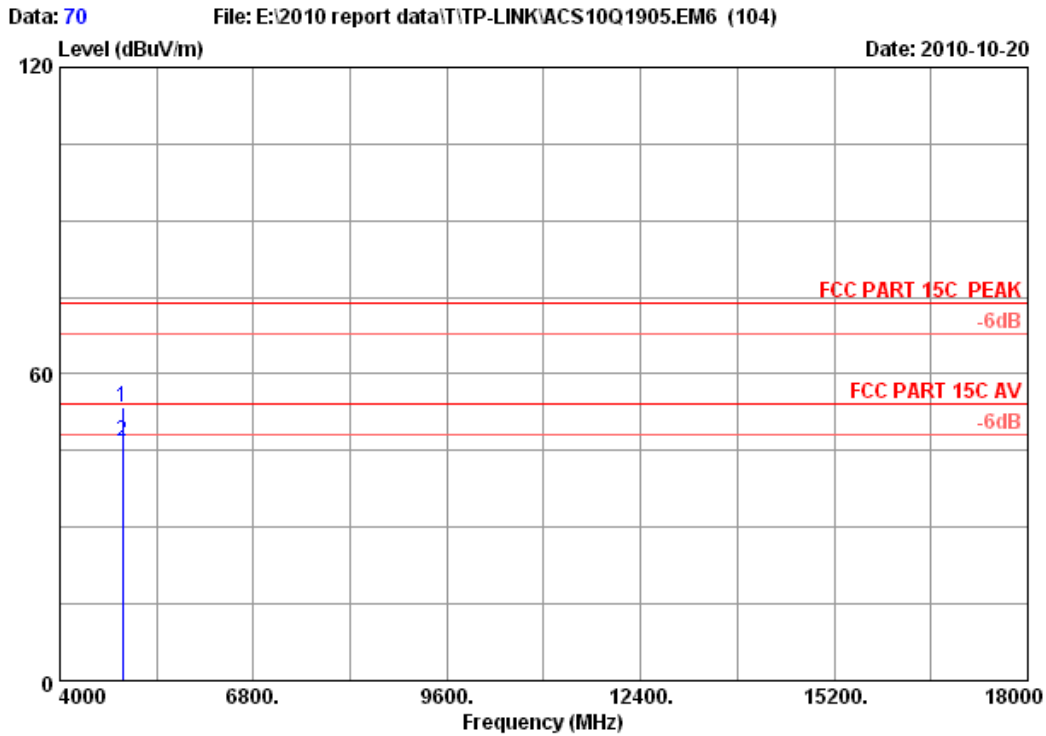
	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	1051.000	25.50	4.86	37.81	46.87	39.42	74.00	34.58	Peak
2	1399.000	26.19	5.50	37.18	49.21	43.72	74.00	30.28	Peak
3	1750.000	27.80	6.18	36.86	46.44	43.56	74.00	30.44	Peak
4	2452.000	29.47	7.50	36.61	85.68	86.04	74.00	-12.04	Peak

Remarks:  
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





Site no.	: RF Chamber	Data no.	: 69
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 150Mbps Wireless N Router		
Power	: DC 9V From Adapter Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH7 2452MHz Tx		
M/N	: TL-WR741ND		

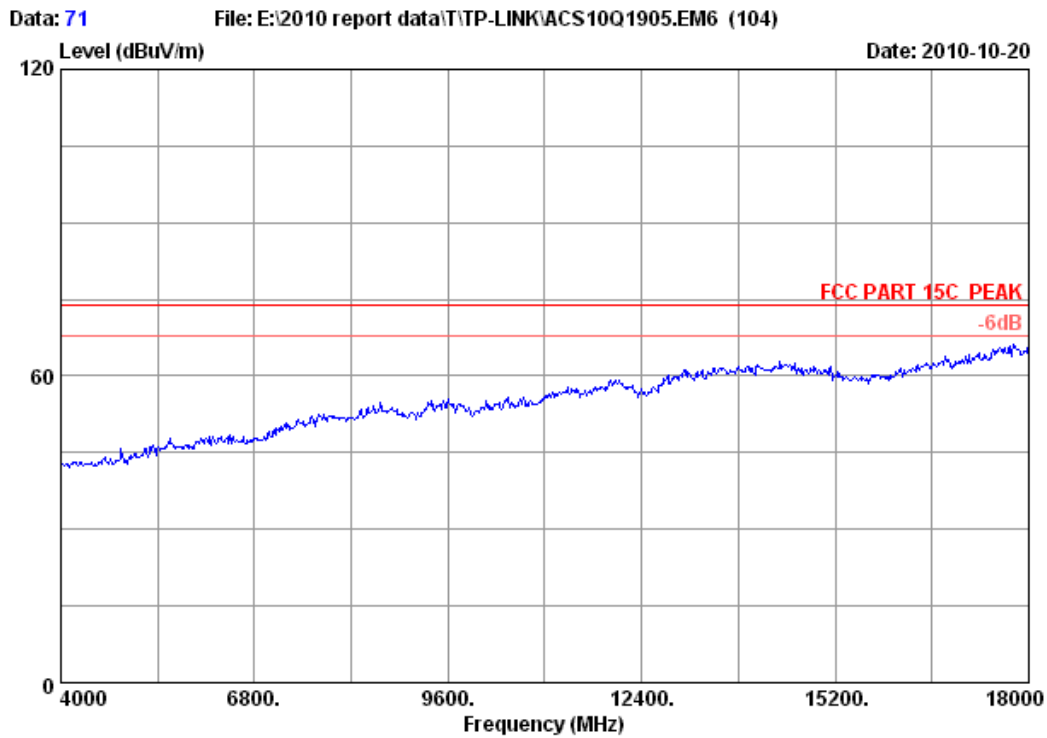


Site no. : RF Chamber Data no. : 70  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx  
 M/N : TL-WR741ND

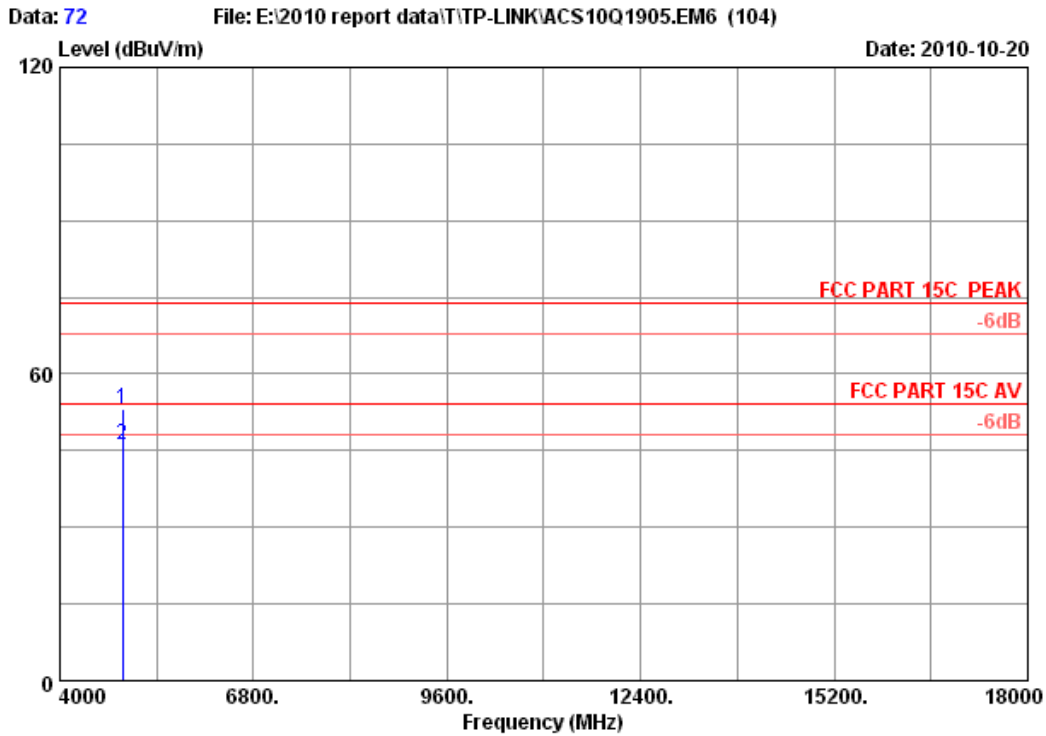
	Ant.	Cable	Amp.	Emission					
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBUV)	(dBUV/m)	(dBUV/m)	(dB)		
1 4904.000	34.46	10.74	35.00	43.26	53.46	74.00	20.54	Peak	
2 4904.000	34.46	10.74	35.00	36.57	46.77	54.00	7.23	Average	

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: RF Chamber	Data no.	: 71
Dis. / Ant.	: 3m 3115(0911)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Sunny-lu
EUT	: 150Mbps Wireless N Router		
Power	: DC 9V From Adapter Input AC 120V/60Hz		
Test mode	: IEEE802.11n HT40 CH7 2452MHz Tx		
M/N	: TL-WR741ND		



Site no. : RF Chamber Data no. : 72  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Cable Factor (dB/m)	Amp. loss (dB)	Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	4904.000	34.46	10.74	35.00	42.95	53.15	74.00	20.85	Peak
2	4904.000	34.46	10.74	35.00	35.84	46.04	54.00	7.96	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

## 5. CONDUCTED SPURIOUS EMISSIONS

### 5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1Year

### 5.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

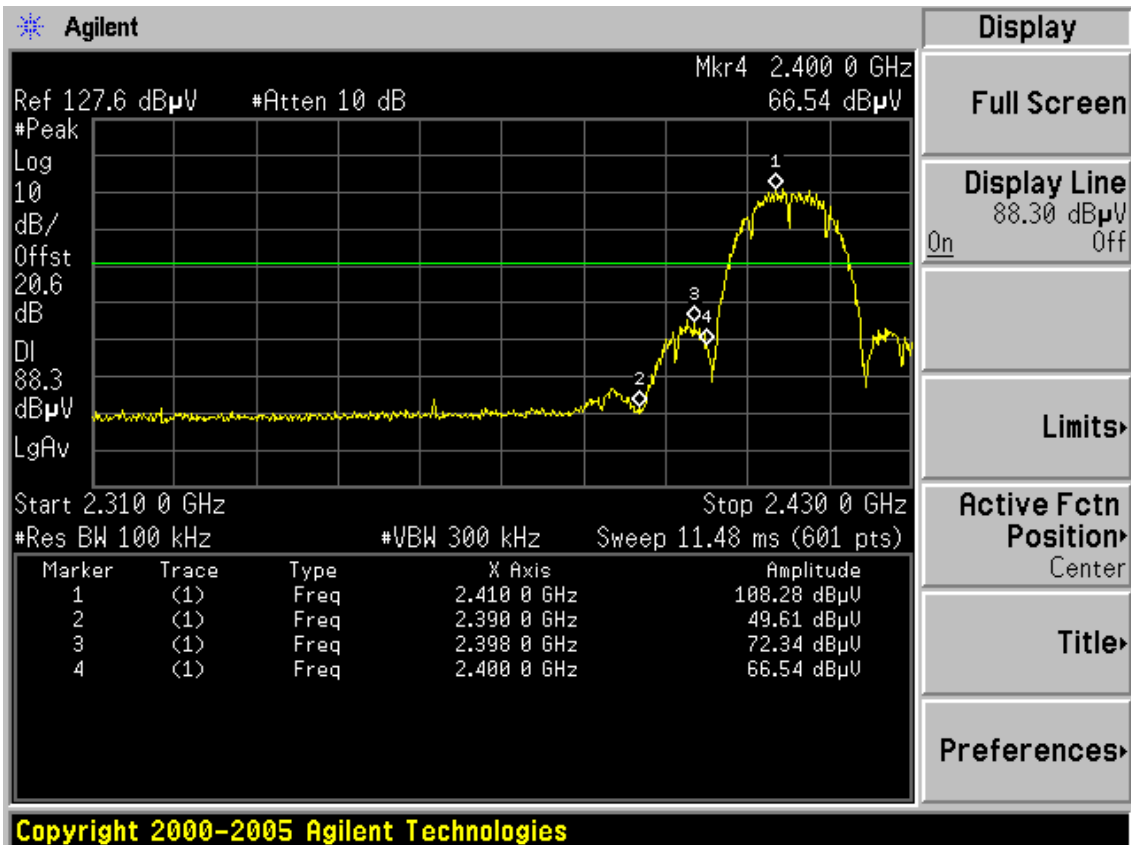
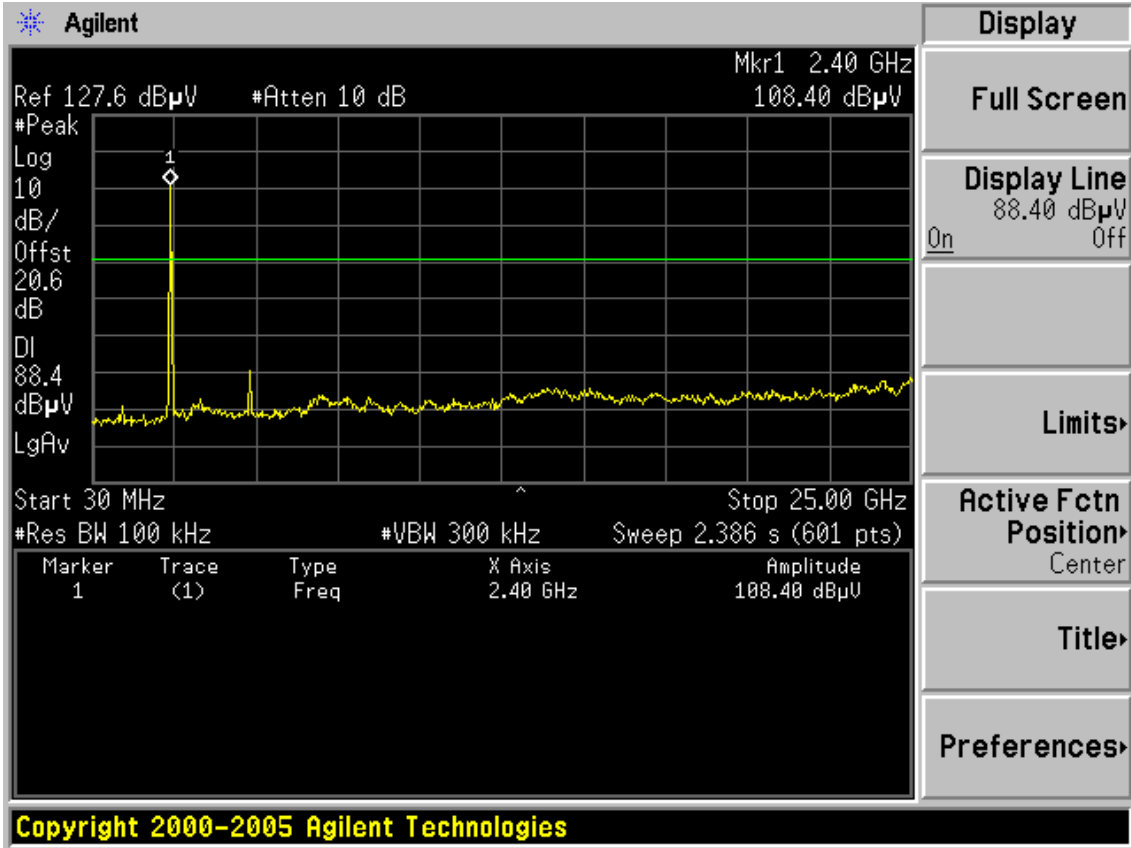
### 5.3. Test Procedure

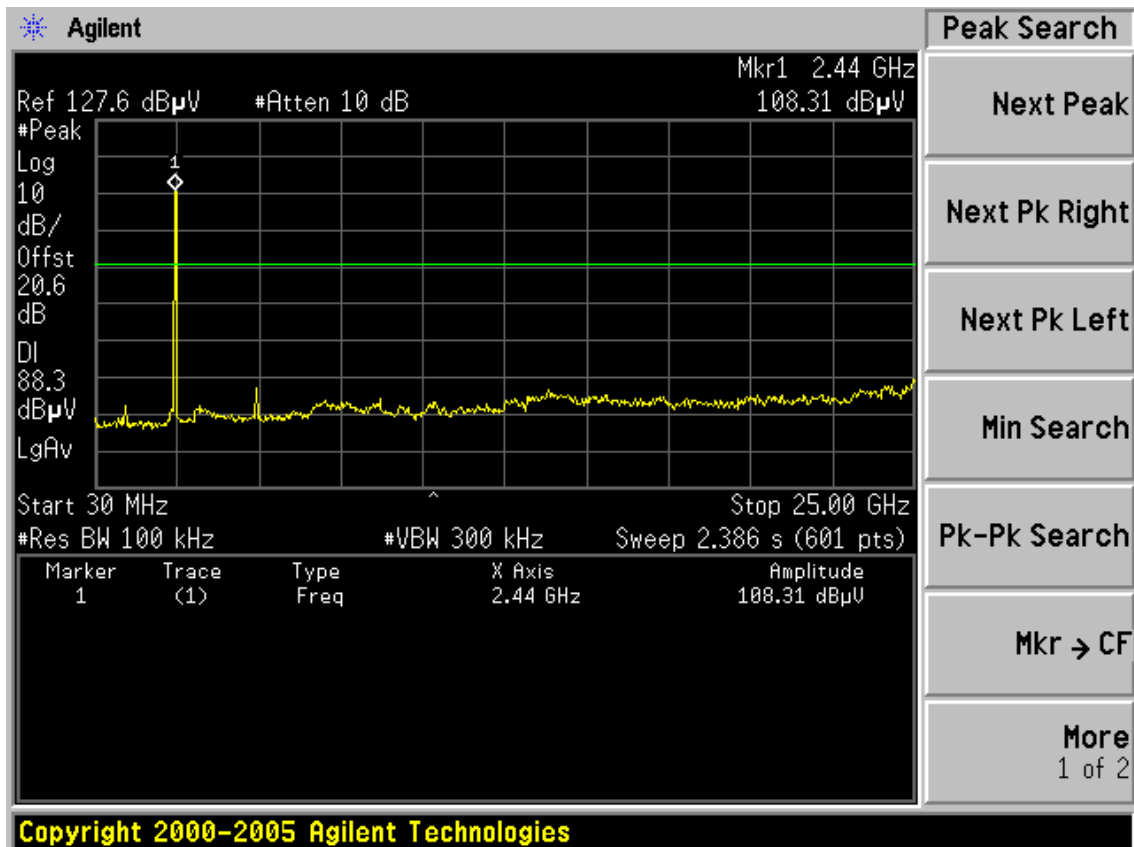
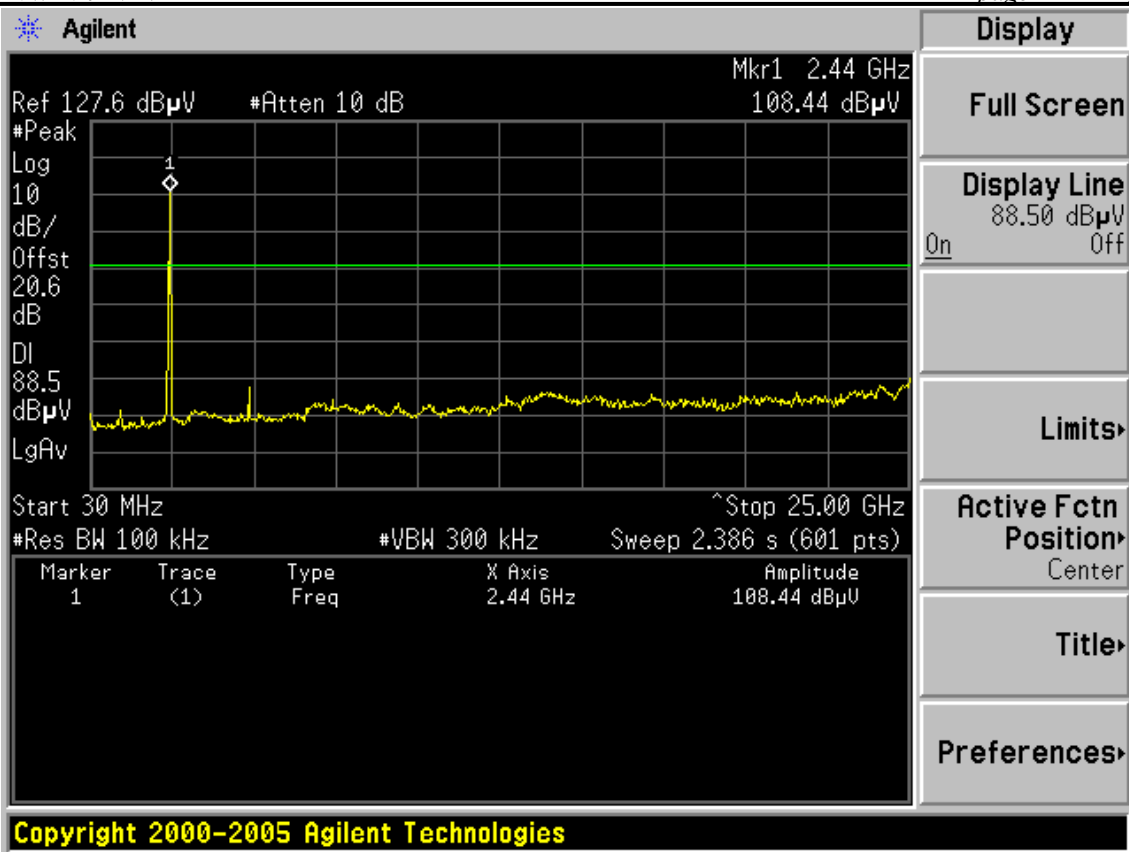
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

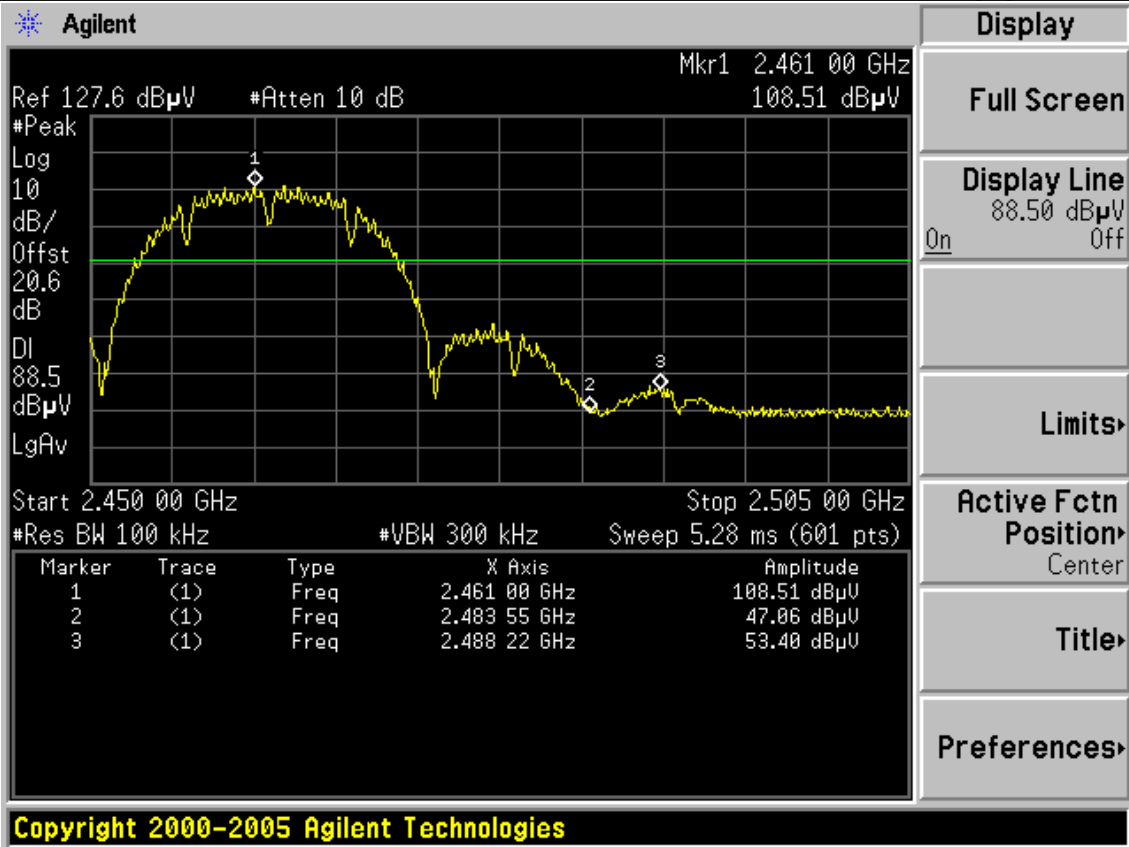
### 5.4. Test result

**PASS** (The testing data was attached in the next pages.)

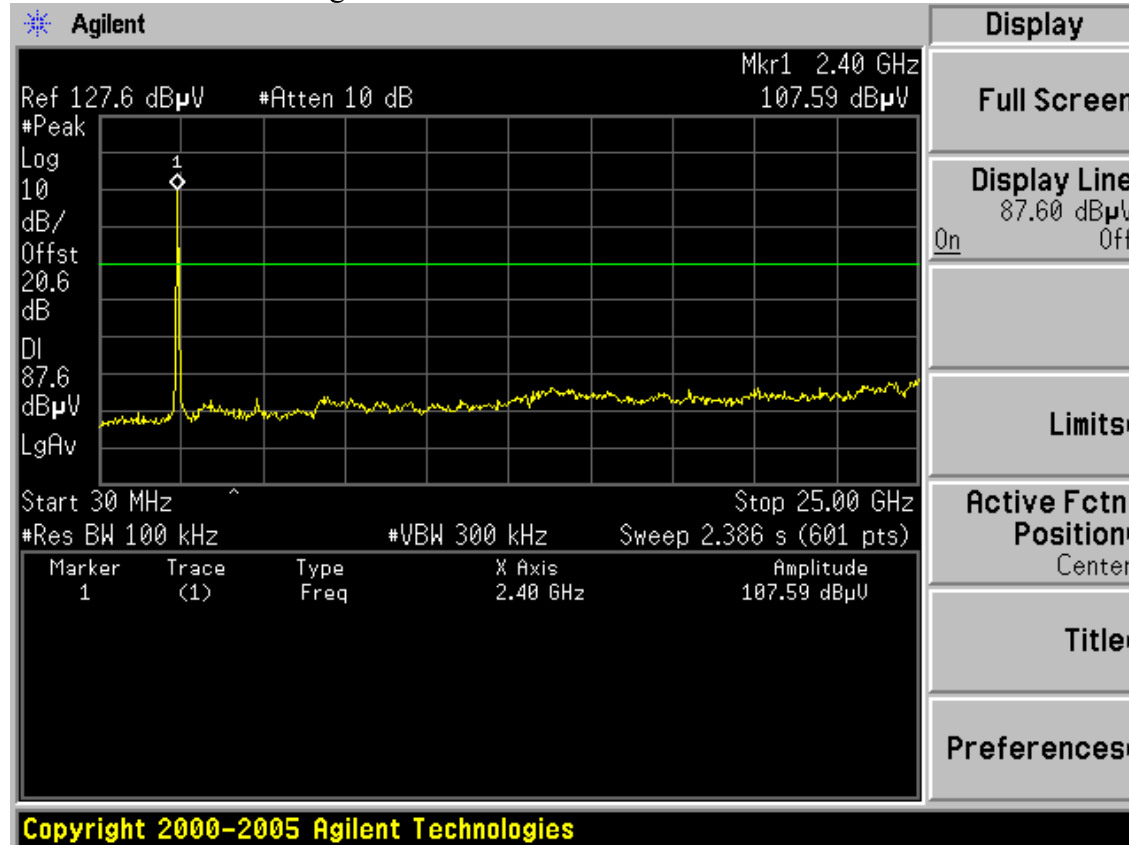
Test Mode: IEEE 802.11b TX



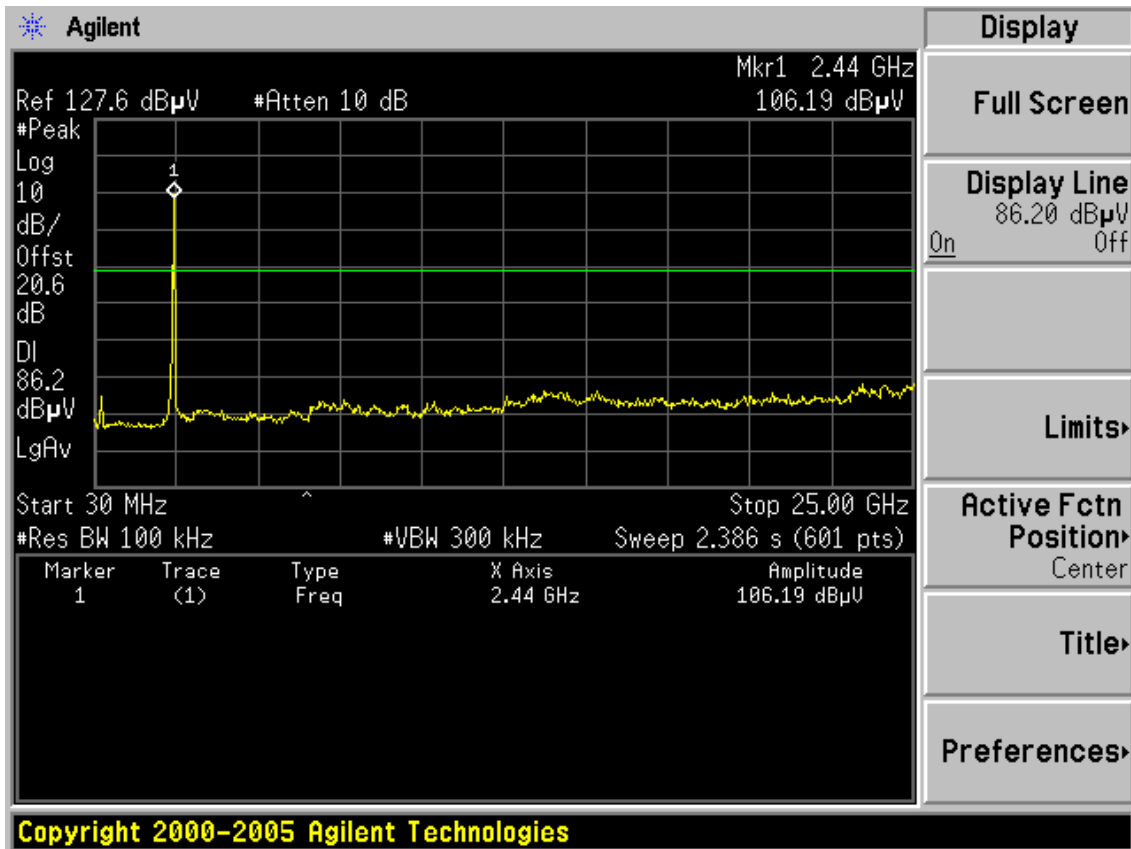
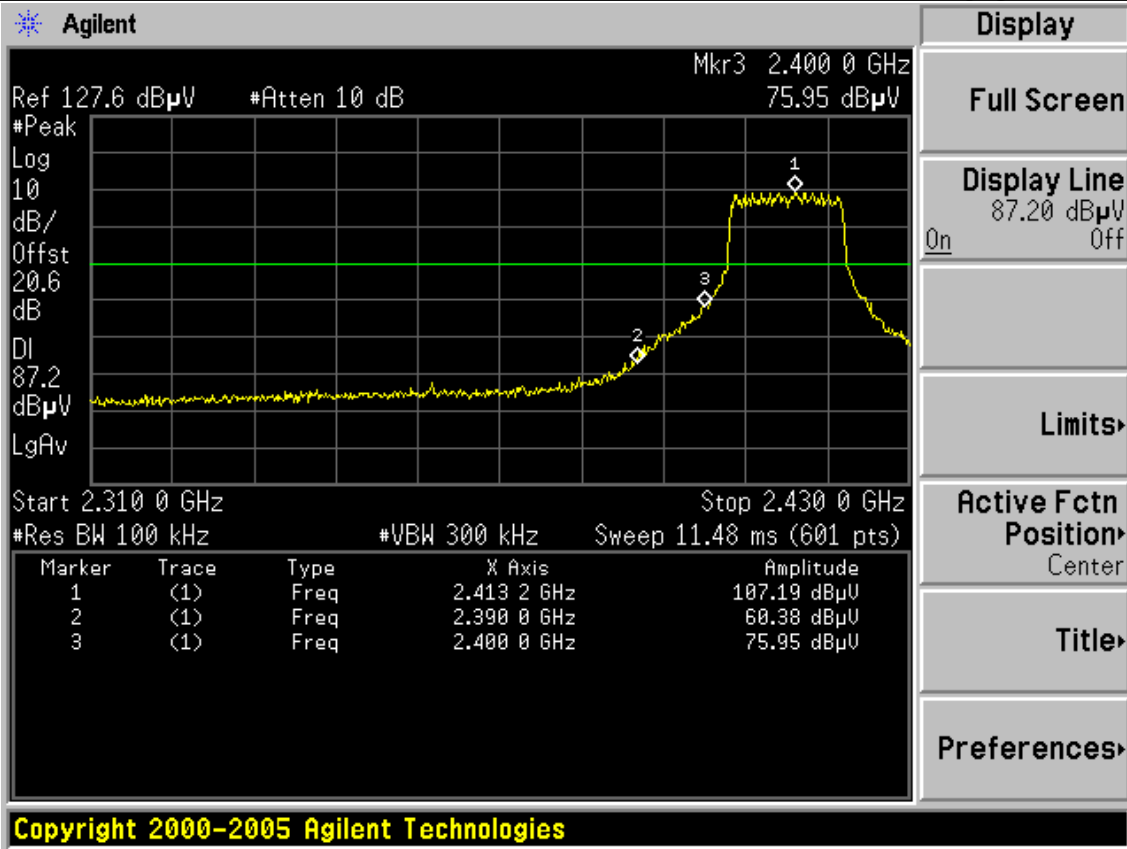


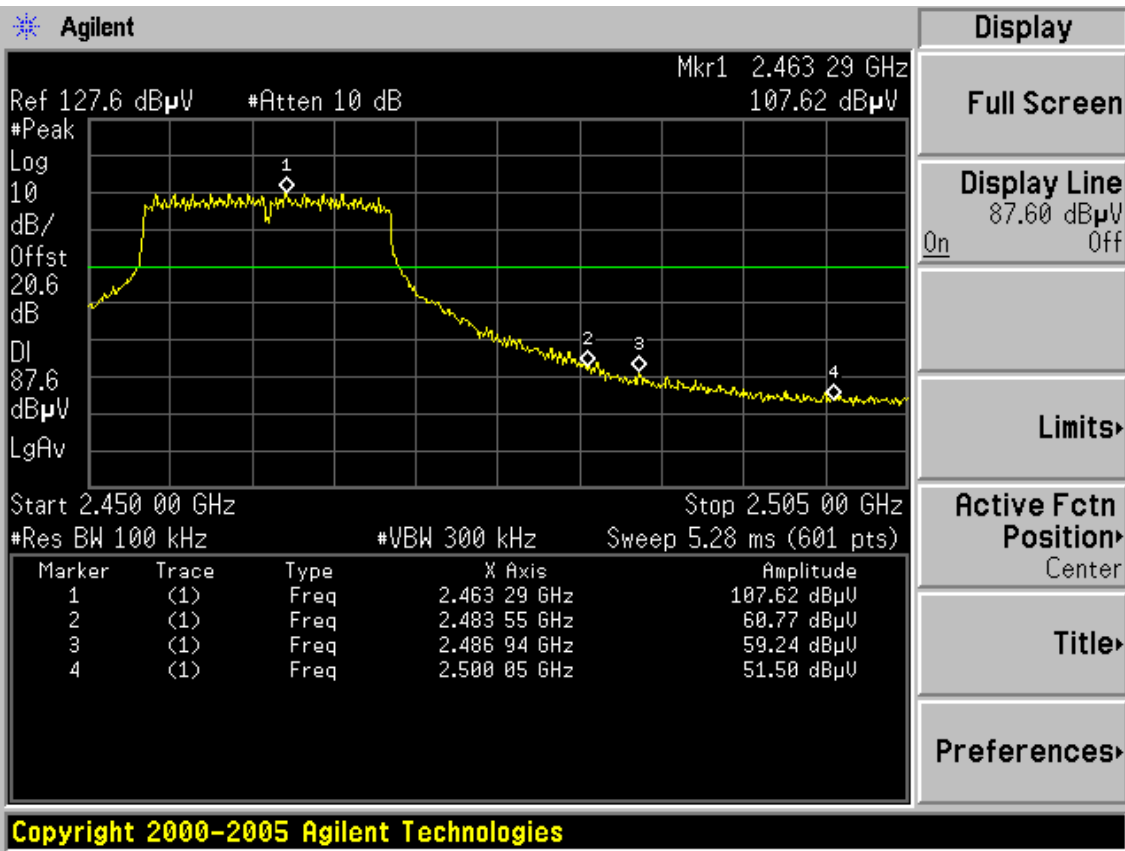
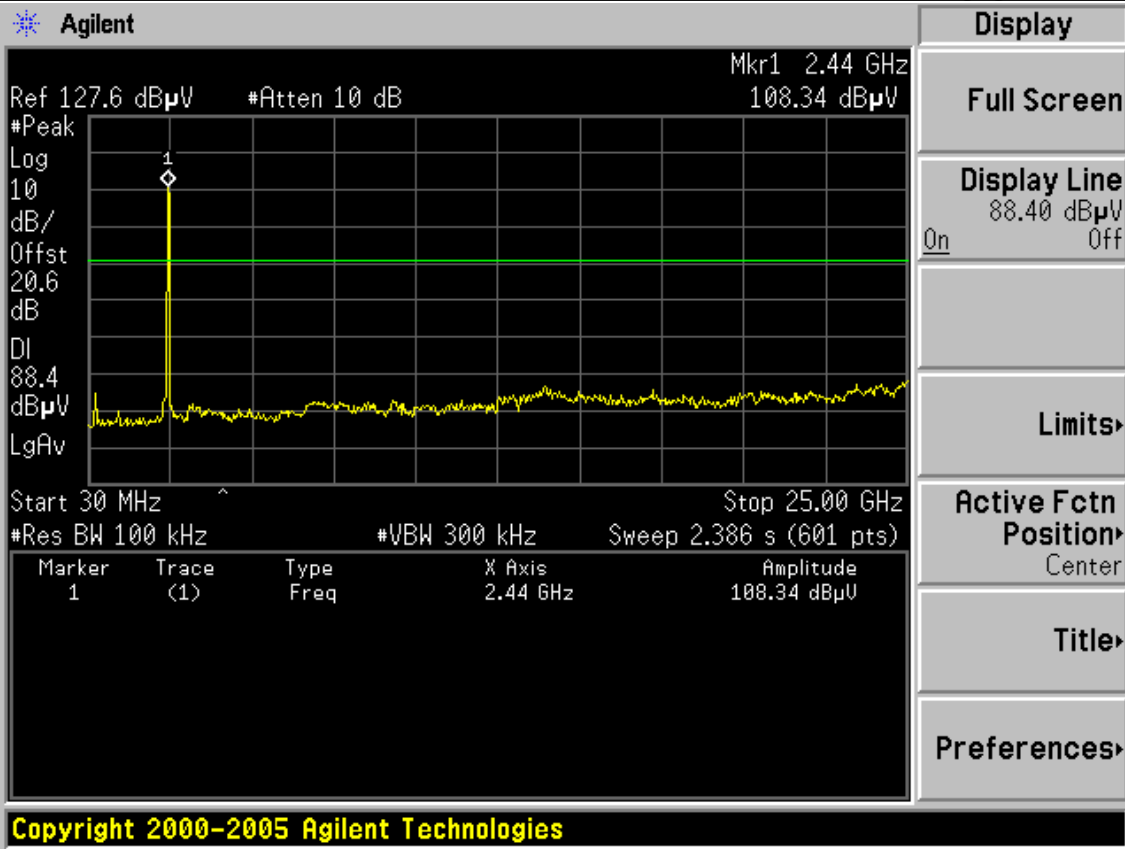


Test Mode: IEEE 802.11g TX

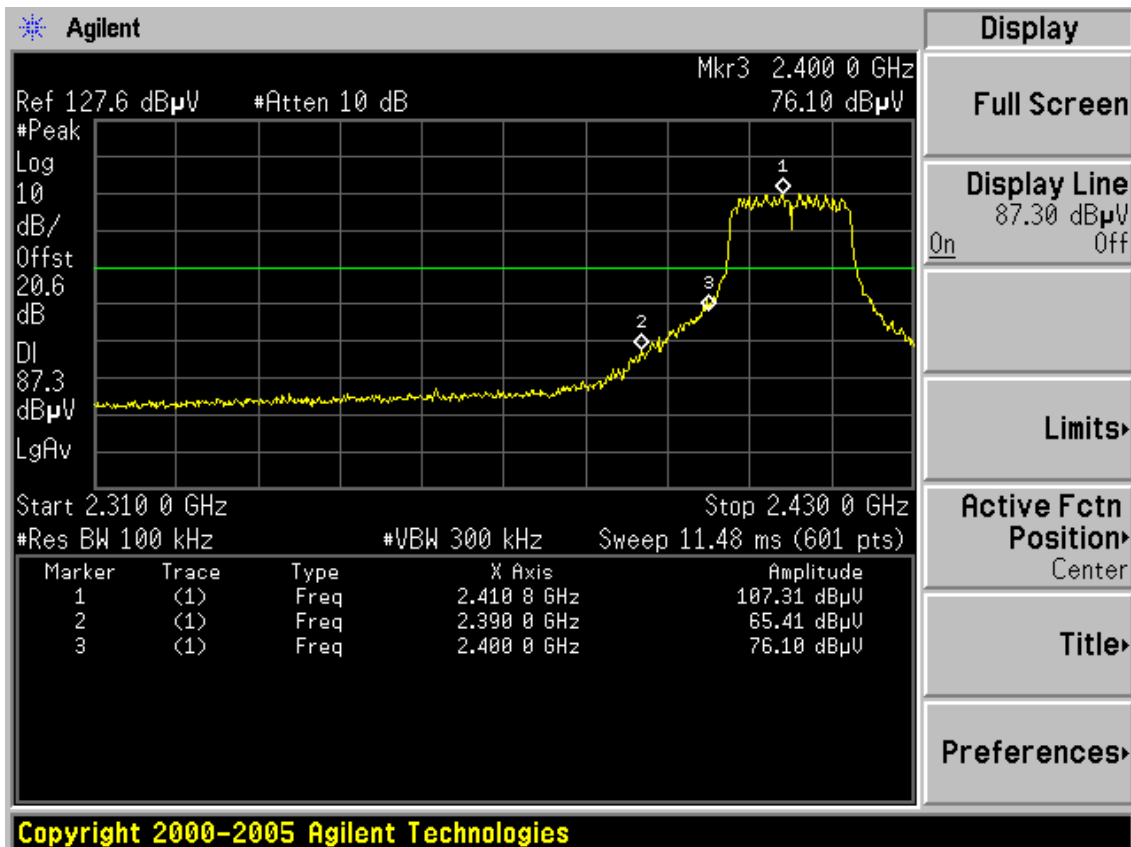
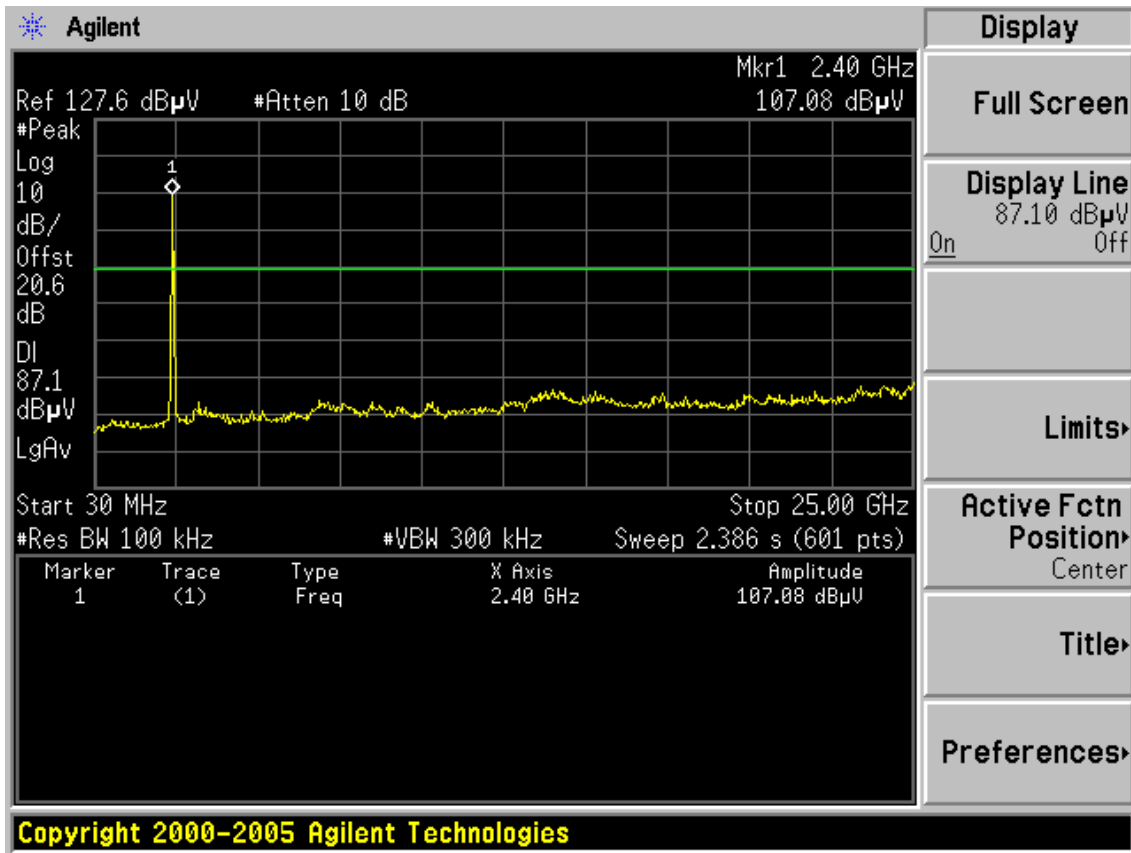


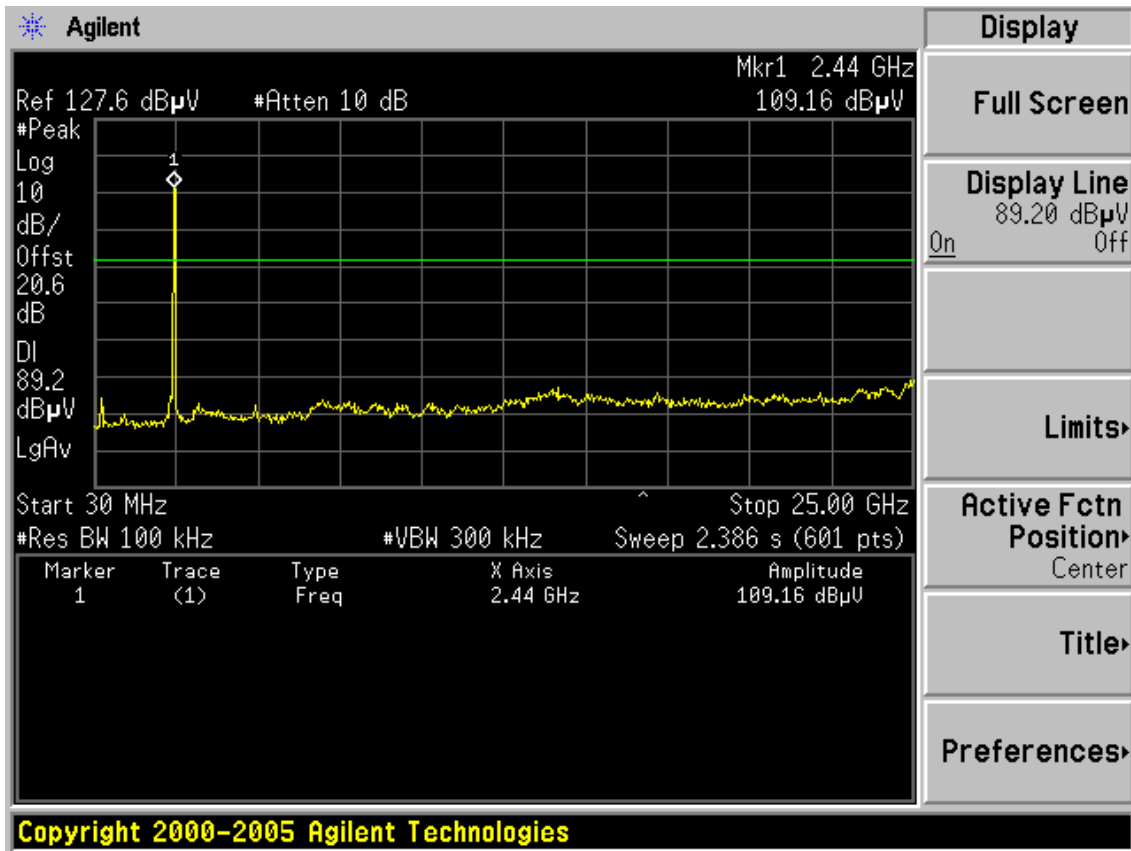
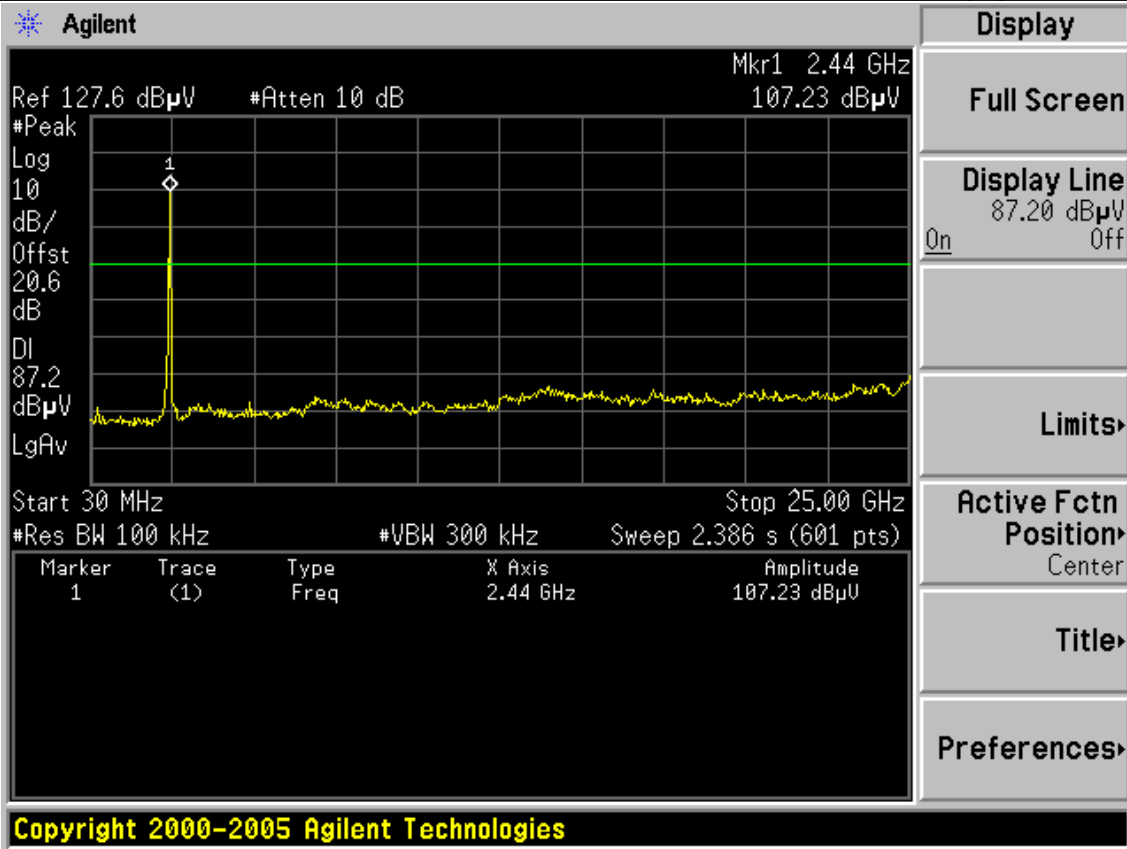


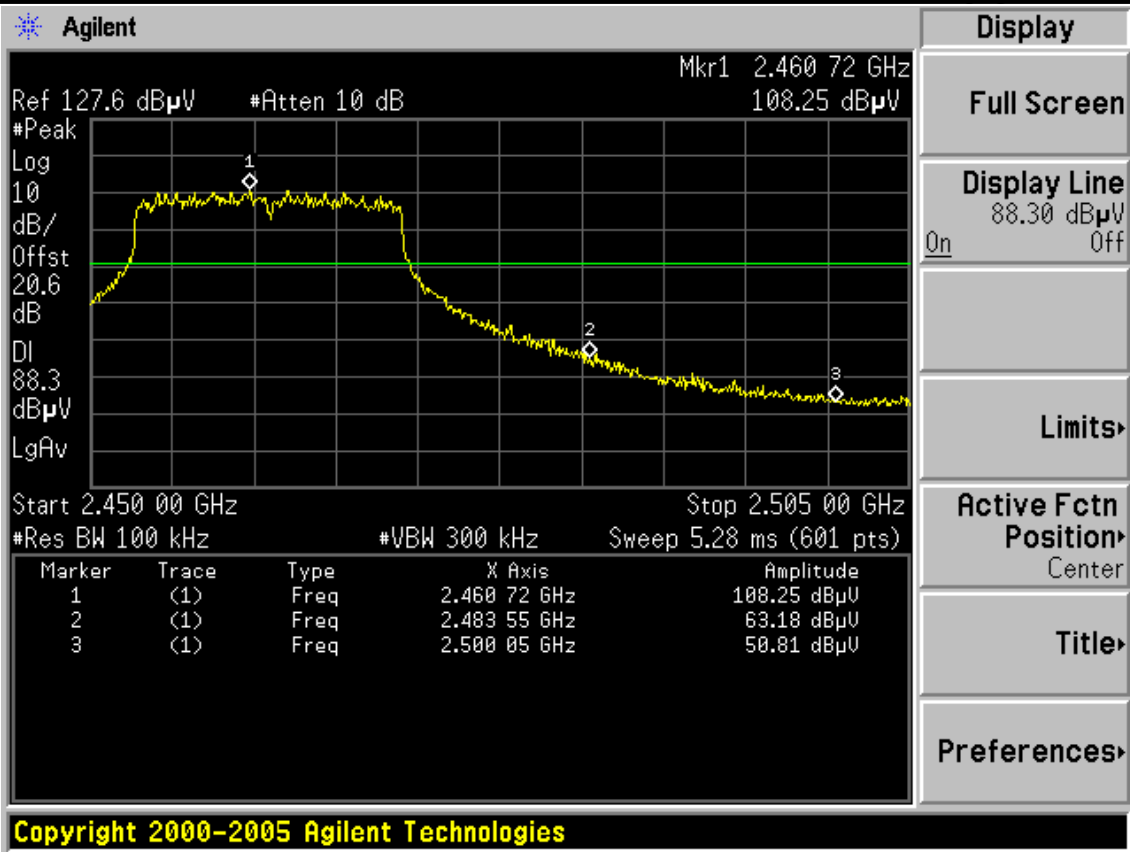




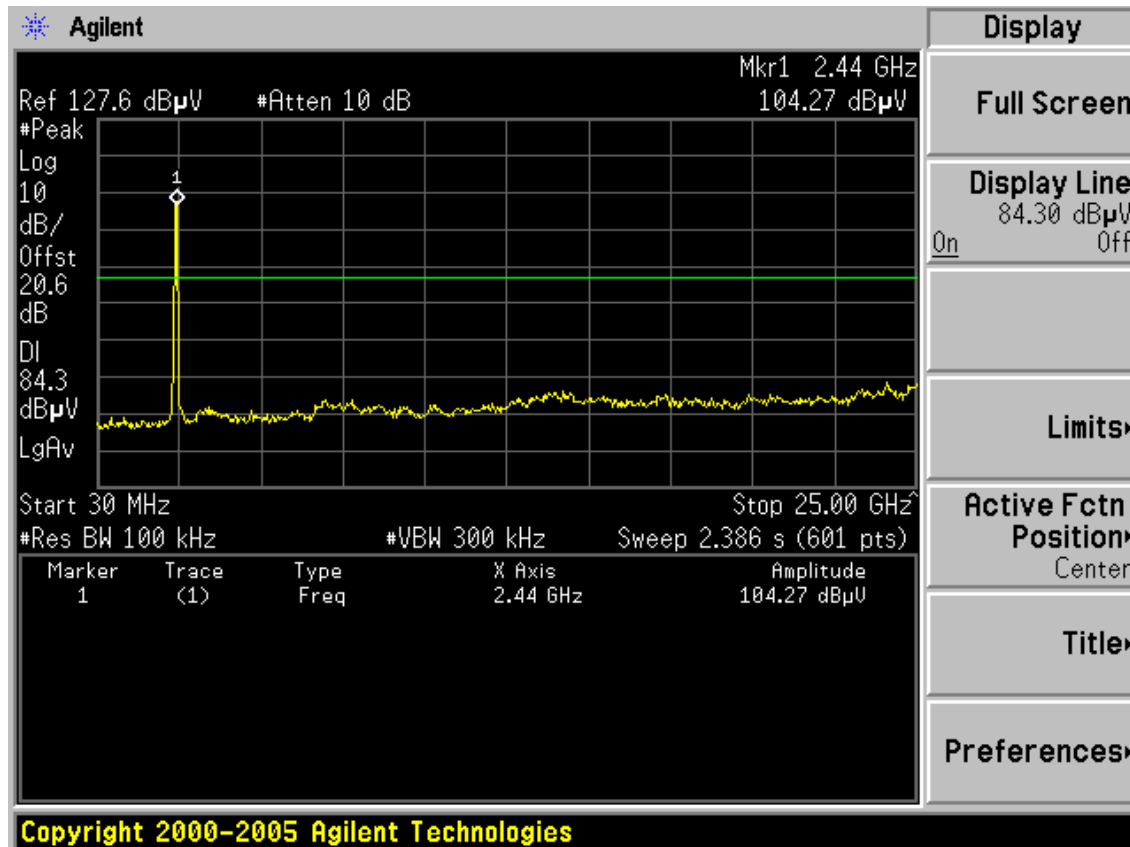
Test Mode: IEEE 802.11n HT20 TX

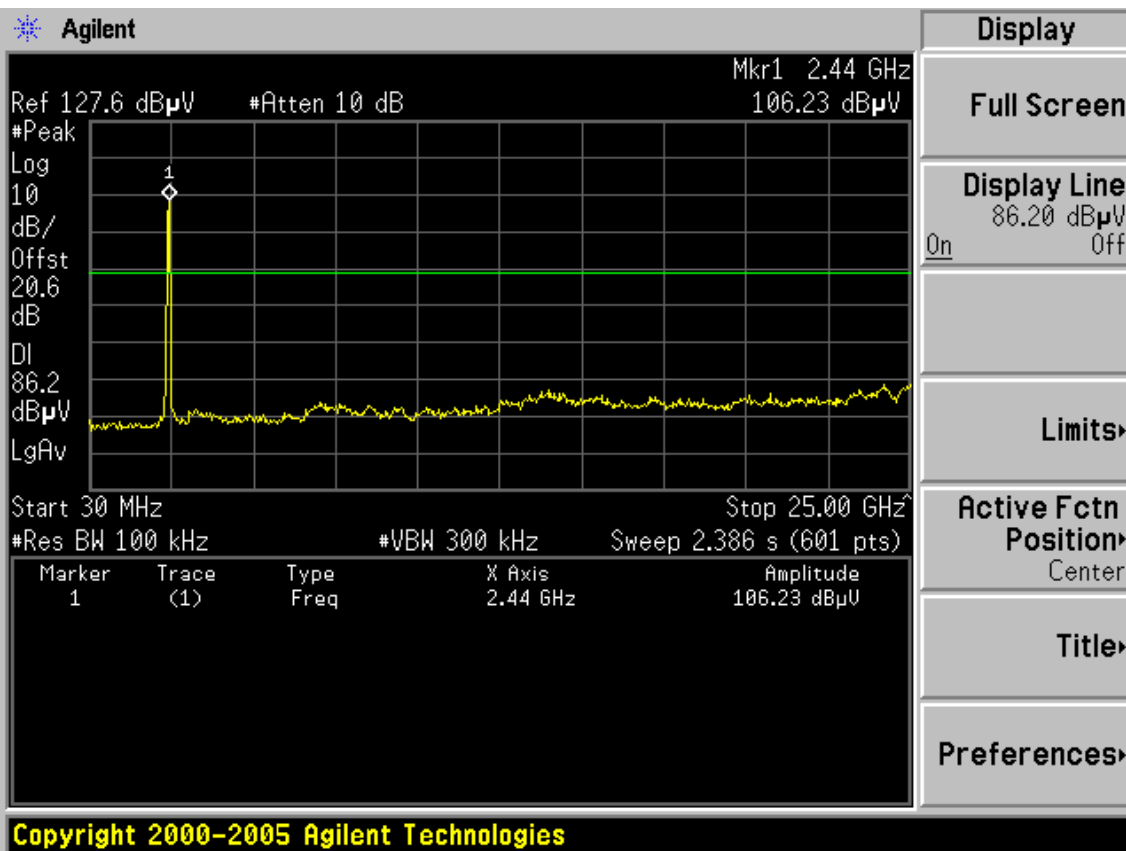
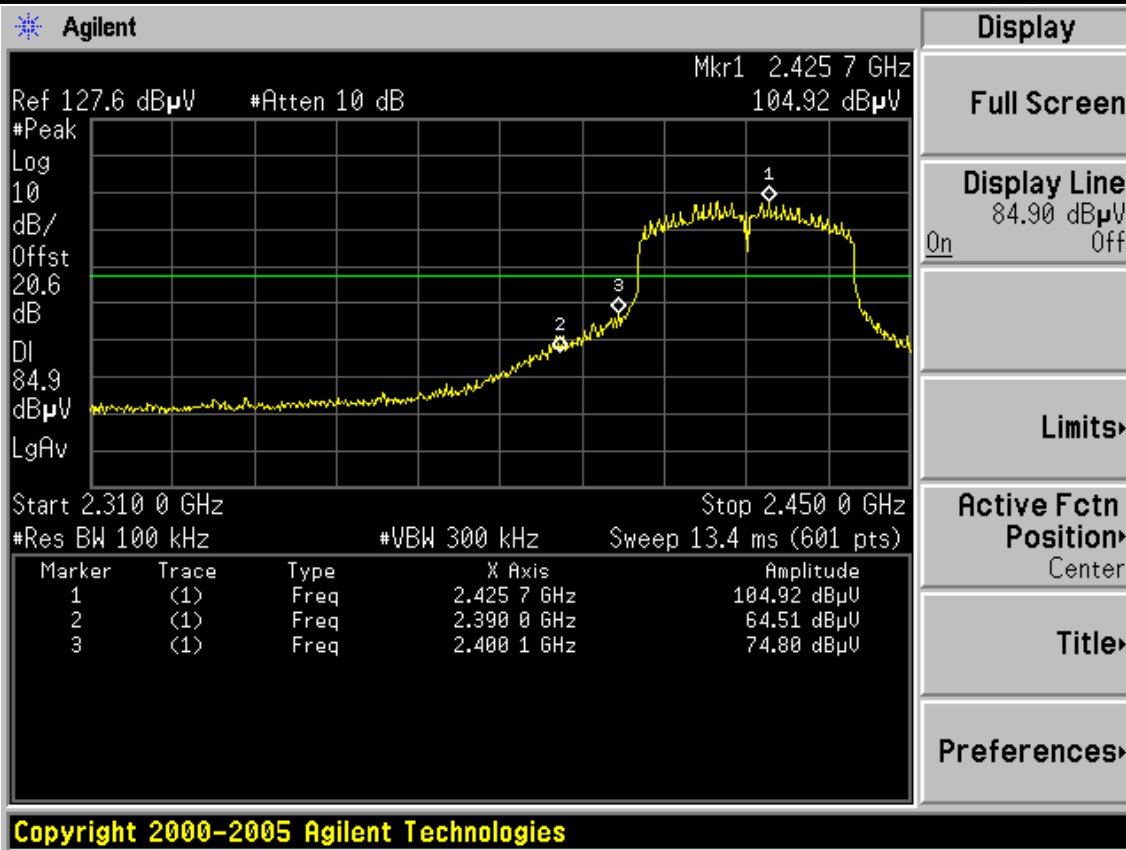


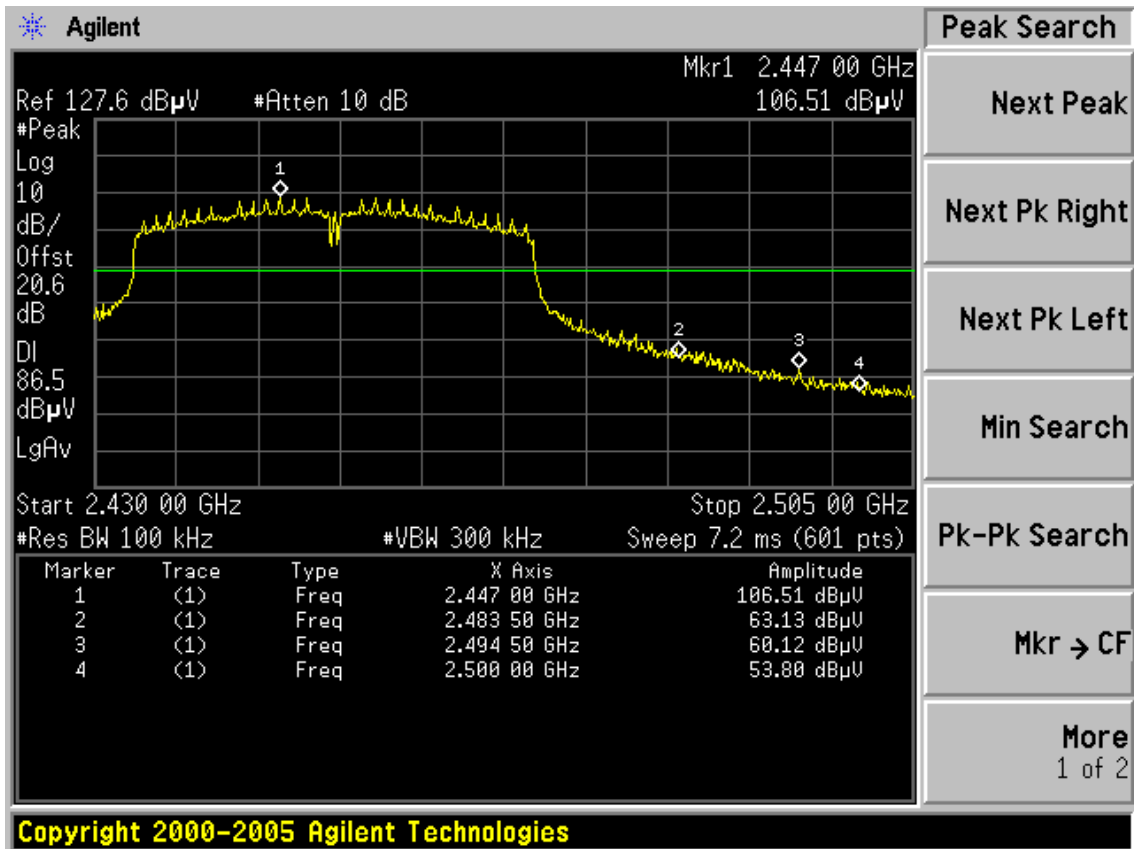
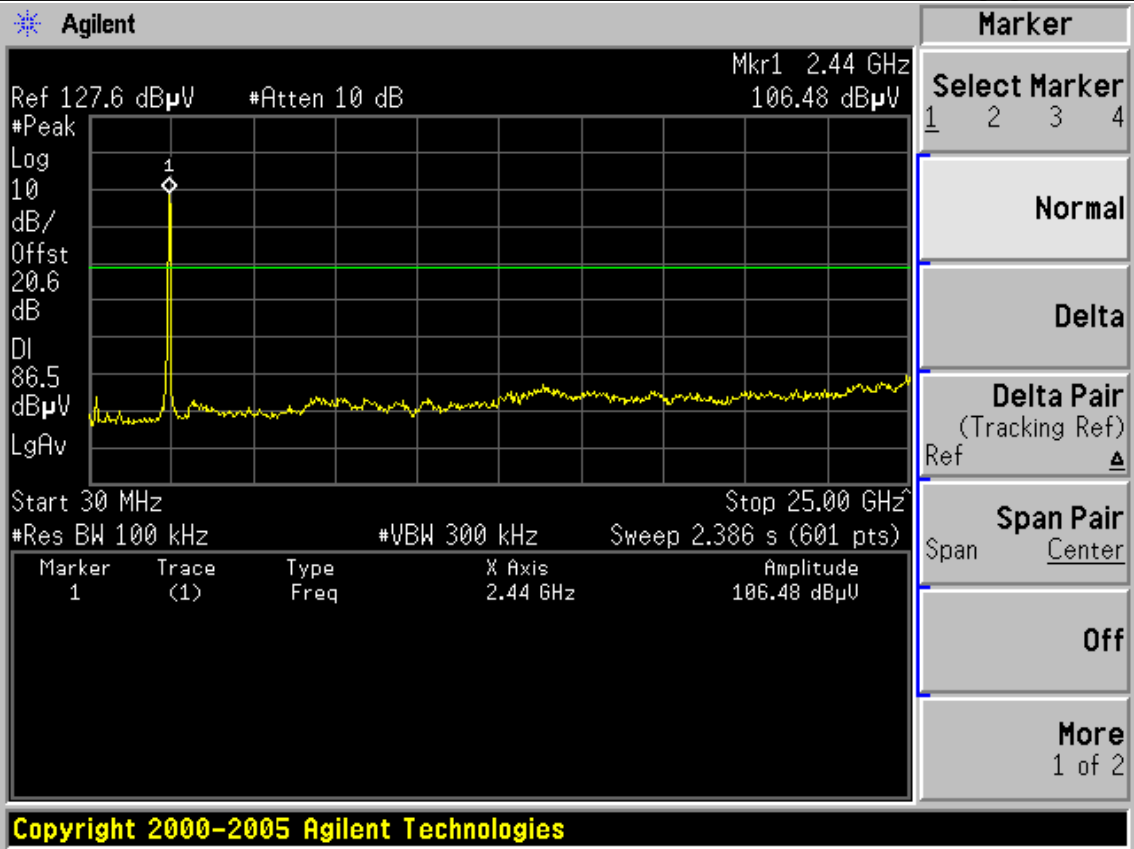




Test Mode: IEEE 802.11n HT40 TX







## 6. BAND EDGE COMPLIANCE TEST

### 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Horn Antenna	EMCO	3115	9607-4877	Nov.25, 09	1.5 Year
3.	Amplifier	Agilent	8449B	3008A02495	May.08, 10	1 Year
4.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	May.08,10	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	May.08,10	1 Year

### 6.2. Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

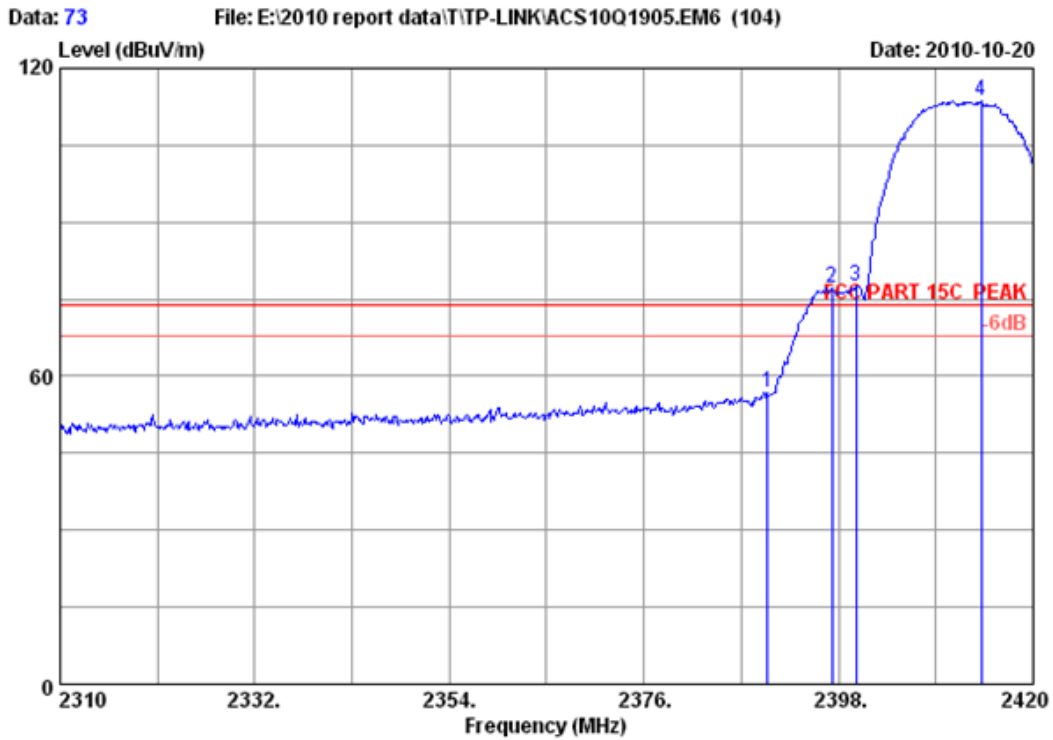
### 6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) PEAK: RBW=1MHz; VBW=3MHz ;Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz ;VBW=10Hz ; Sweep=AUTO

### 6.4. Test Results

Pass (The testing data was attached in the next pages.)



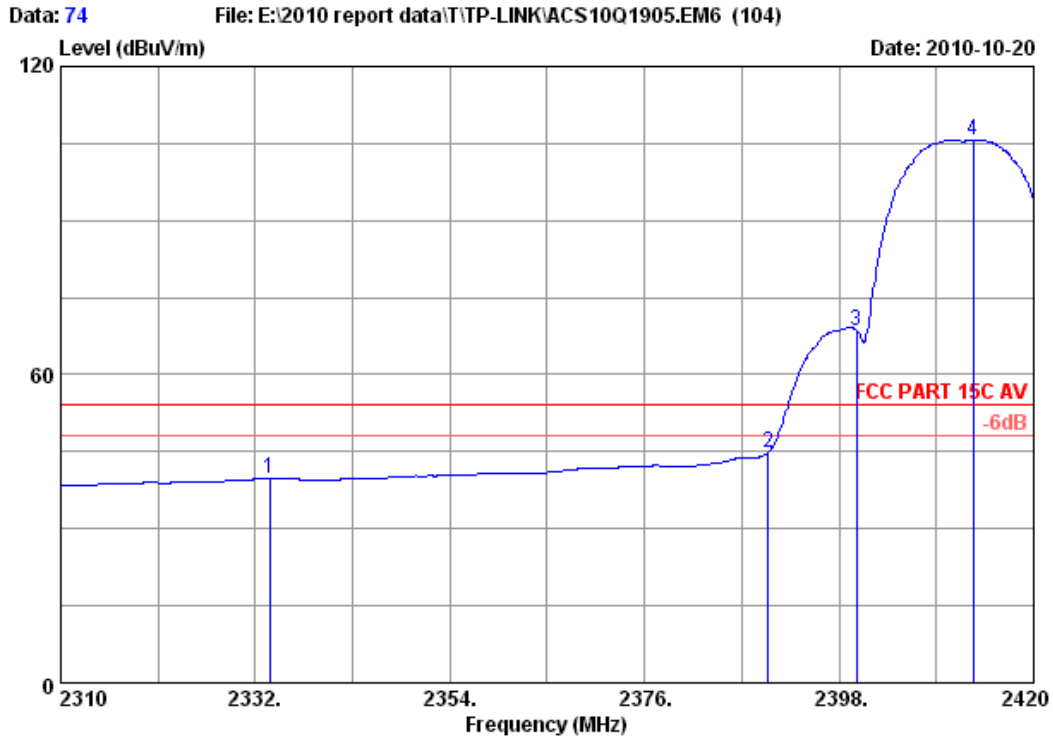


Site no. : RF Chamber Data no. : 73  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	56.54	56.75	74.00	17.25	Peak
2	2397.230	29.44	7.39	36.62	77.07	77.28	74.00	-3.28	Peak
3	2400.000	29.44	7.43	36.62	77.31	77.56	74.00	-3.56	Peak
4	2414.170	29.45	7.43	36.62	113.49	113.75	74.00	-39.75	Peak

Remarks:

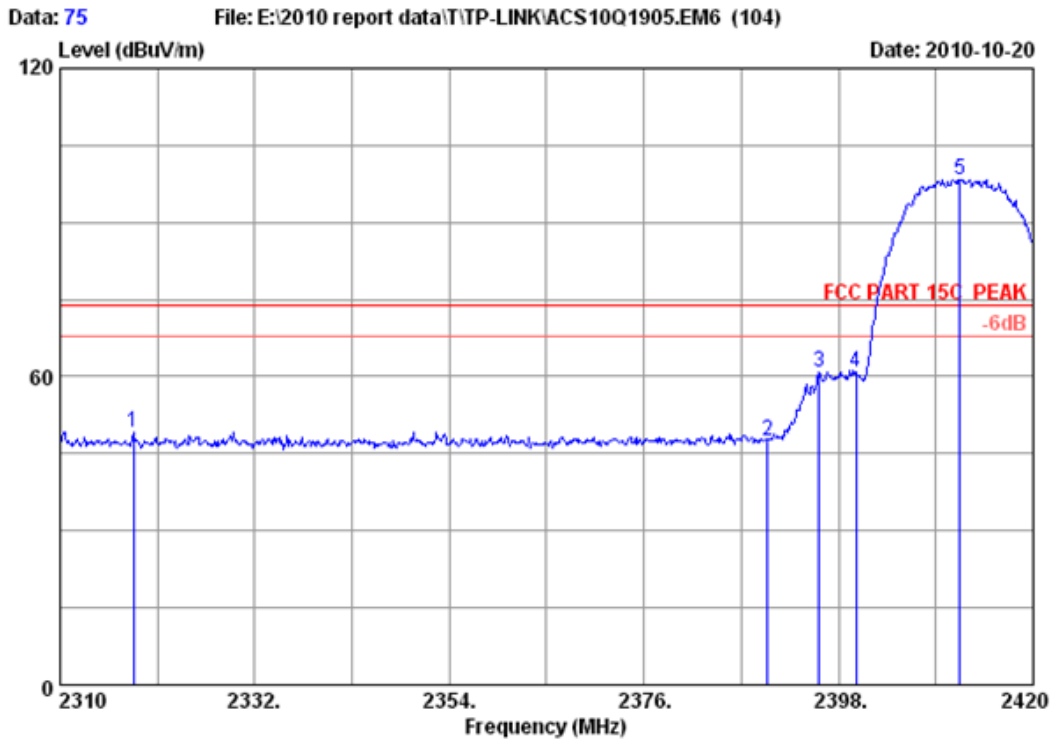
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 74  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2333.650	29.40	7.27	36.63	39.74	39.78	54.00	14.22	Average
2	2390.000	29.44	7.39	36.62	44.58	44.79	54.00	9.21	Average
3	2400.000	29.44	7.43	36.62	68.41	68.66	54.00	-14.66	Average
4	2413.180	29.45	7.43	36.62	105.48	105.74	54.00	-51.74	Average

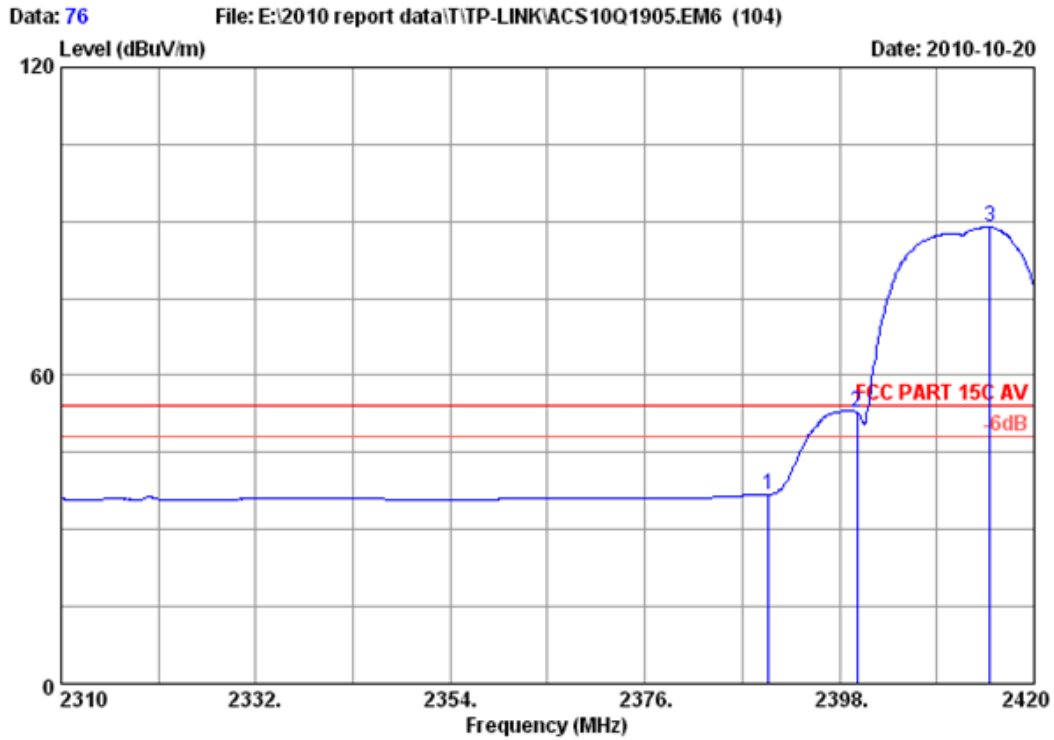
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
  2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 75  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2318.250	29.40	7.24	36.63	49.08	49.09	74.00	24.91	Peak
2	2390.000	29.44	7.39	36.62	47.33	47.54	74.00	26.46	Peak
3	2395.800	29.44	7.39	36.62	60.56	60.77	74.00	13.23	Peak
4	2400.000	29.44	7.43	36.62	60.69	60.94	74.00	13.06	Peak
5	2411.750	29.45	7.43	36.62	98.07	98.33	74.00	-24.33	Peak

Remarks:  
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

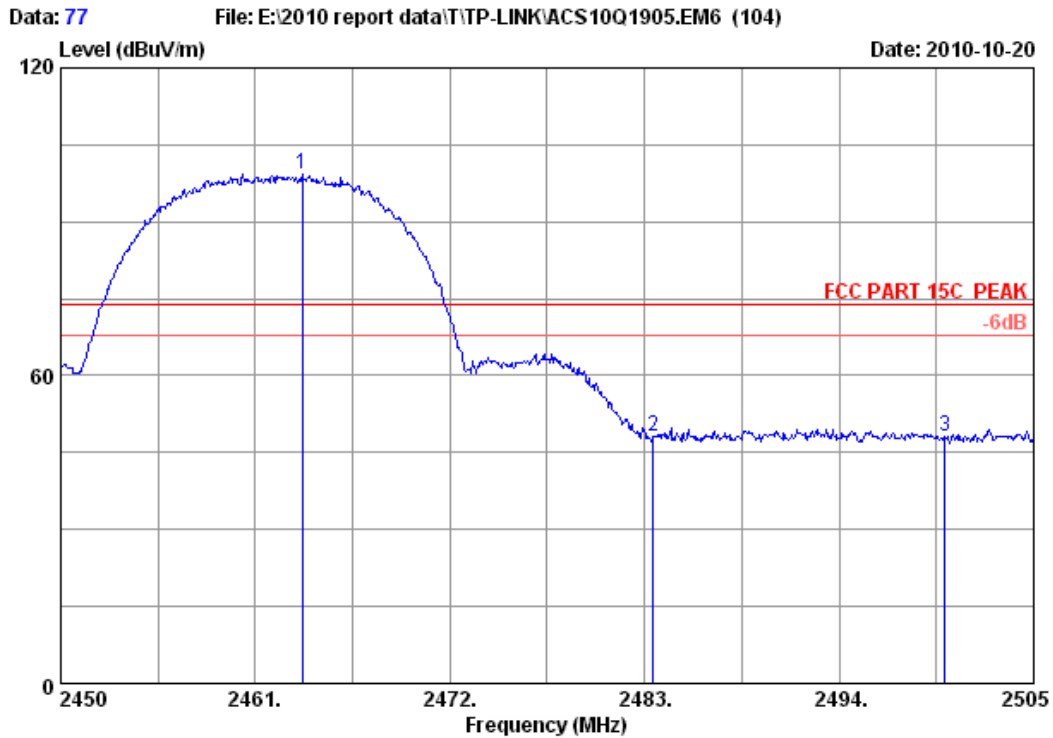


Site no. : RF Chamber Data no. : 76  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	36.53	36.74	54.00	17.26	Average
2	2400.000	29.44	7.43	36.62	52.49	52.74	54.00	1.26	Average
3	2415.050	29.45	7.43	36.62	88.69	88.95	54.00	-34.95	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

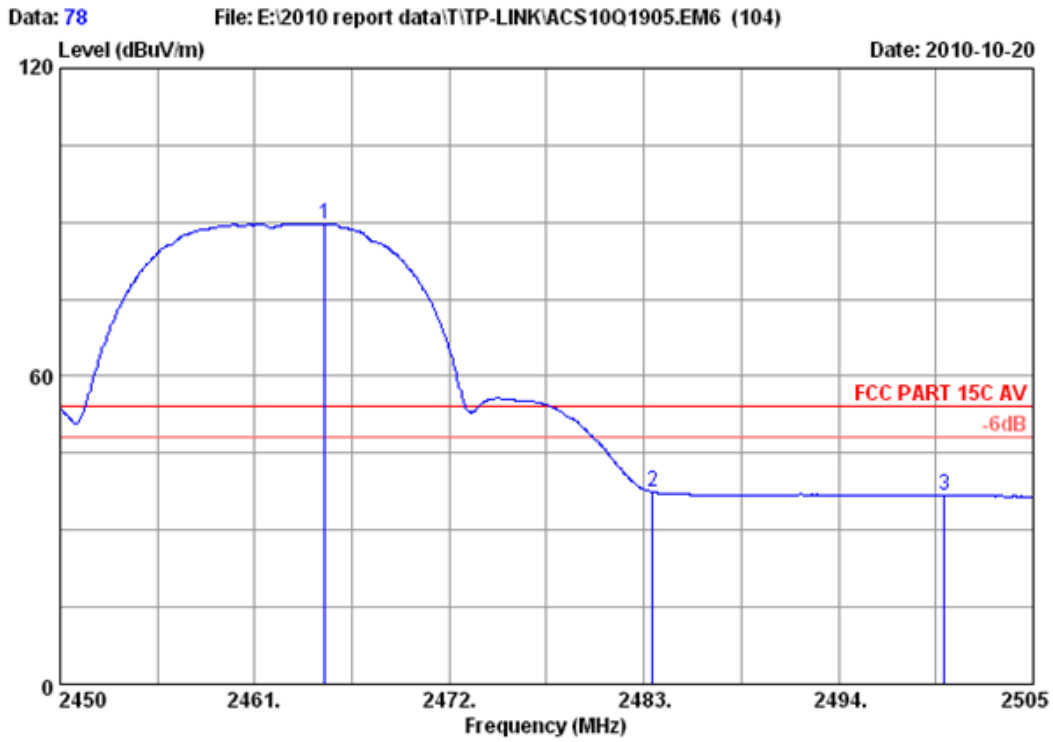


Site no. : RF Chamber Data no. : 77  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.640	29.48	7.54	36.61	98.78	99.19	74.00	-25.19	Peak
2	2483.500	29.49	7.58	36.60	47.70	48.17	74.00	25.83	Peak
3	2500.000	29.50	7.62	36.60	47.51	48.03	74.00	25.97	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

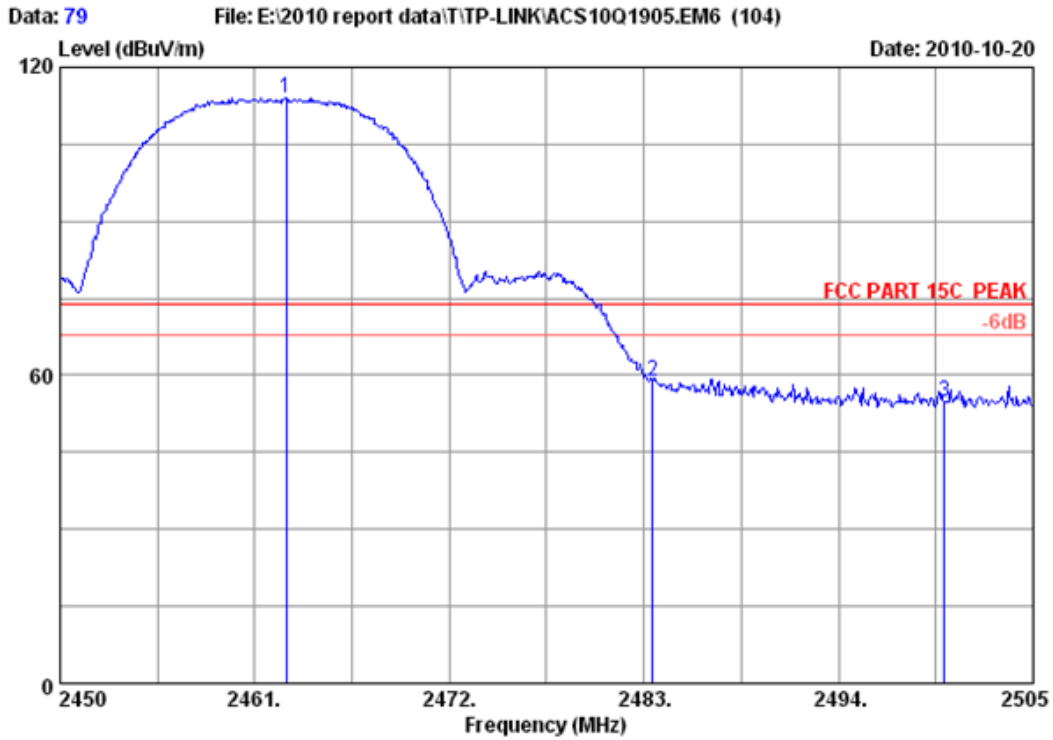


Site no. : RF Chamber Data no. : 78  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.960	29.48	7.54	36.61	89.25	89.66	54.00	-35.66	Average
2	2483.500	29.49	7.58	36.60	36.98	37.45	54.00	16.55	Average
3	2500.000	29.50	7.62	36.60	36.19	36.71	54.00	17.29	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

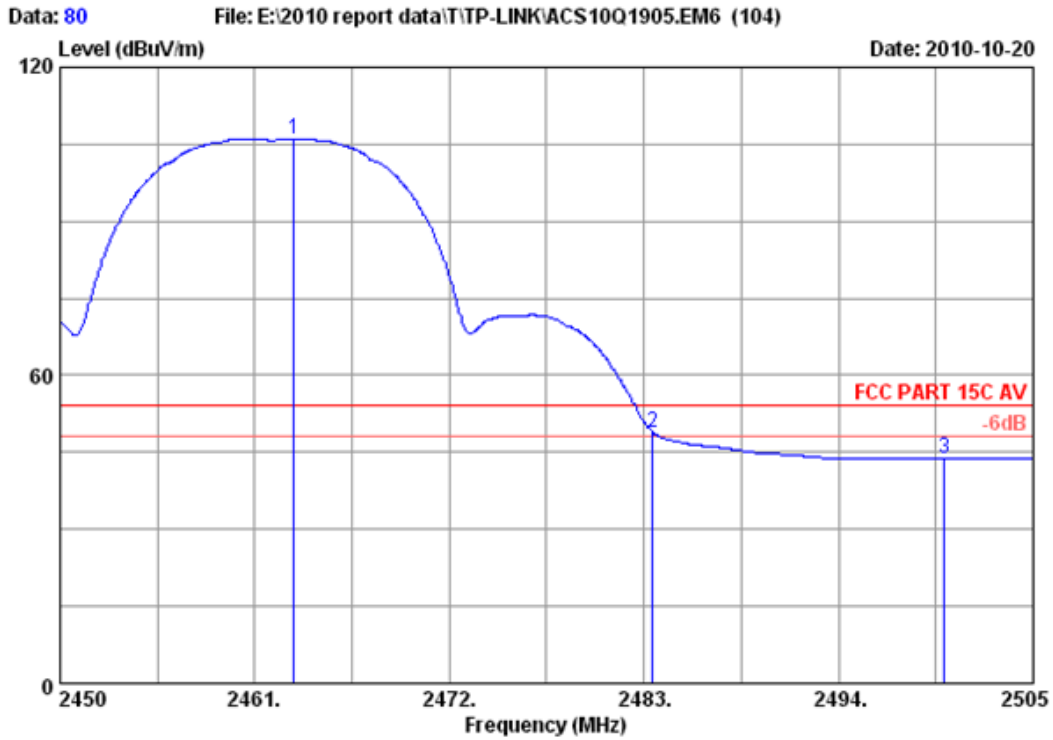


Site no. : RF Chamber Data no. : 79  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.760	29.48	7.54	36.61	113.64	114.05	74.00	-40.05	Peak
2	2483.500	29.49	7.58	36.60	58.47	58.94	74.00	15.06	Peak
3	2500.000	29.50	7.62	36.60	54.16	54.68	74.00	19.32	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



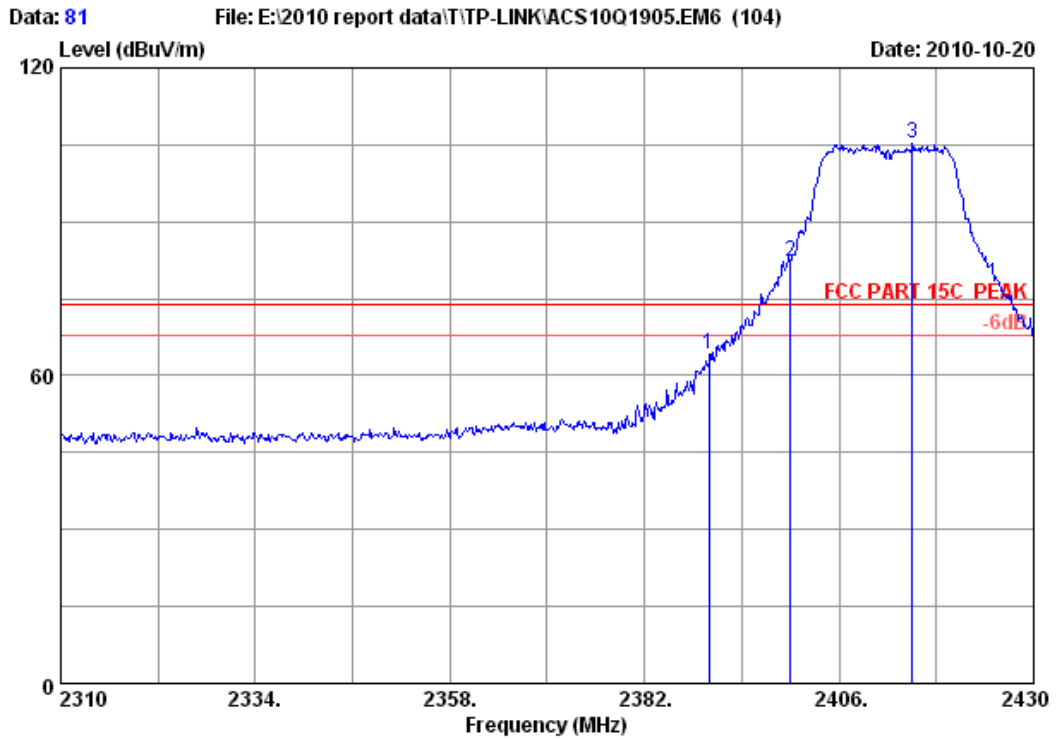
Site no. : RF Chamber Data no. : 80  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.200	29.48	7.54	36.61	105.64	106.05	54.00	-52.05	Average
2	2483.500	29.49	7.58	36.60	48.41	48.88	54.00	5.12	Average
3	2500.000	29.50	7.62	36.60	43.33	43.85	54.00	10.15	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



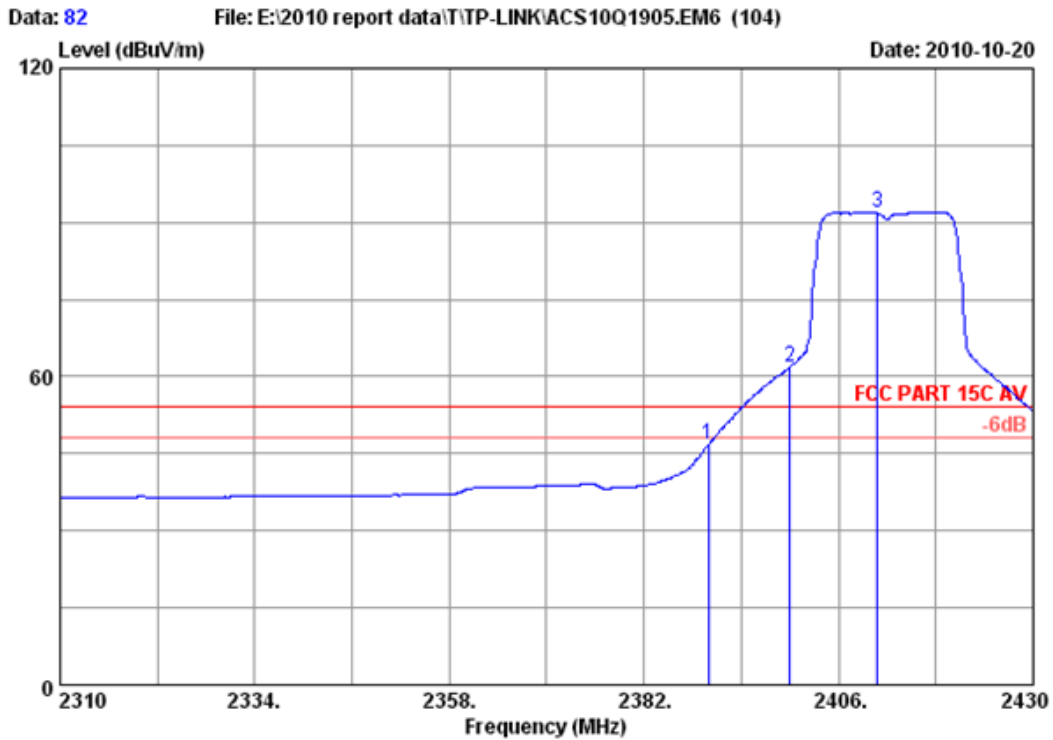


Site no. : RF Chamber Data no. : 81  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	63.93	64.14	74.00	9.86	Peak
2	2400.000	29.44	7.43	36.62	81.87	82.12	74.00	-8.12	Peak
3	2415.000	29.45	7.43	36.62	104.87	105.13	74.00	-31.13	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

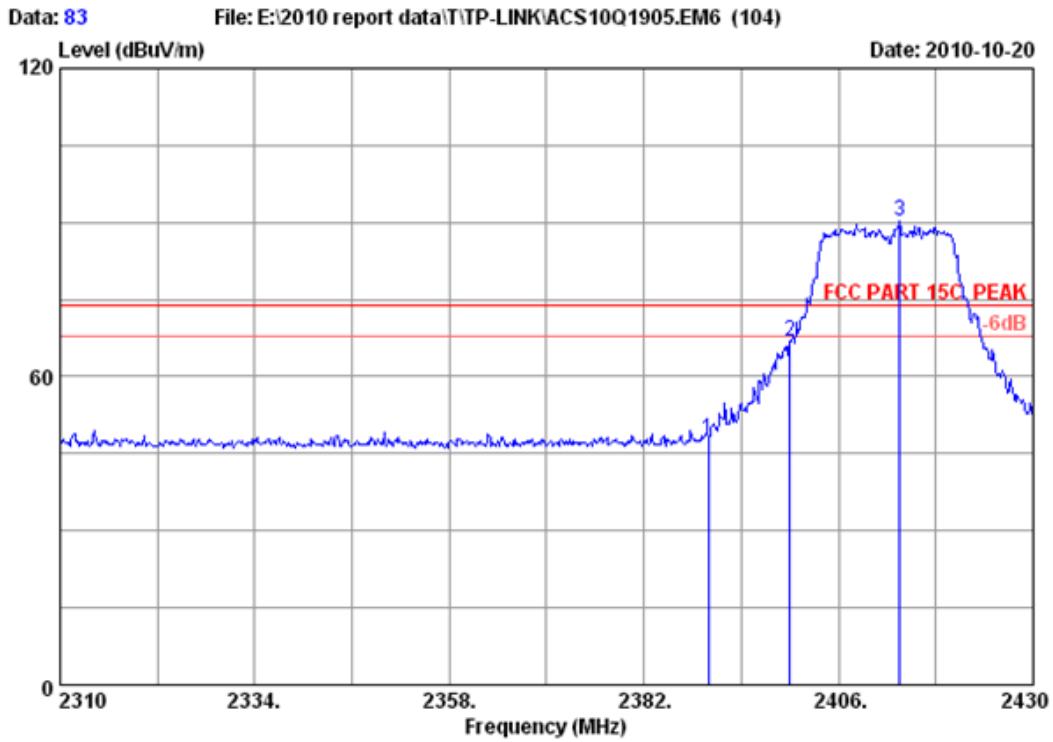


Site no. : RF Chamber Data no. : 82  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	46.60	46.81	54.00	7.19	Average
2	2400.000	29.44	7.43	36.62	61.67	61.92	54.00	-7.92	Average
3	2410.800	29.45	7.43	36.62	91.74	92.00	54.00	-38.00	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

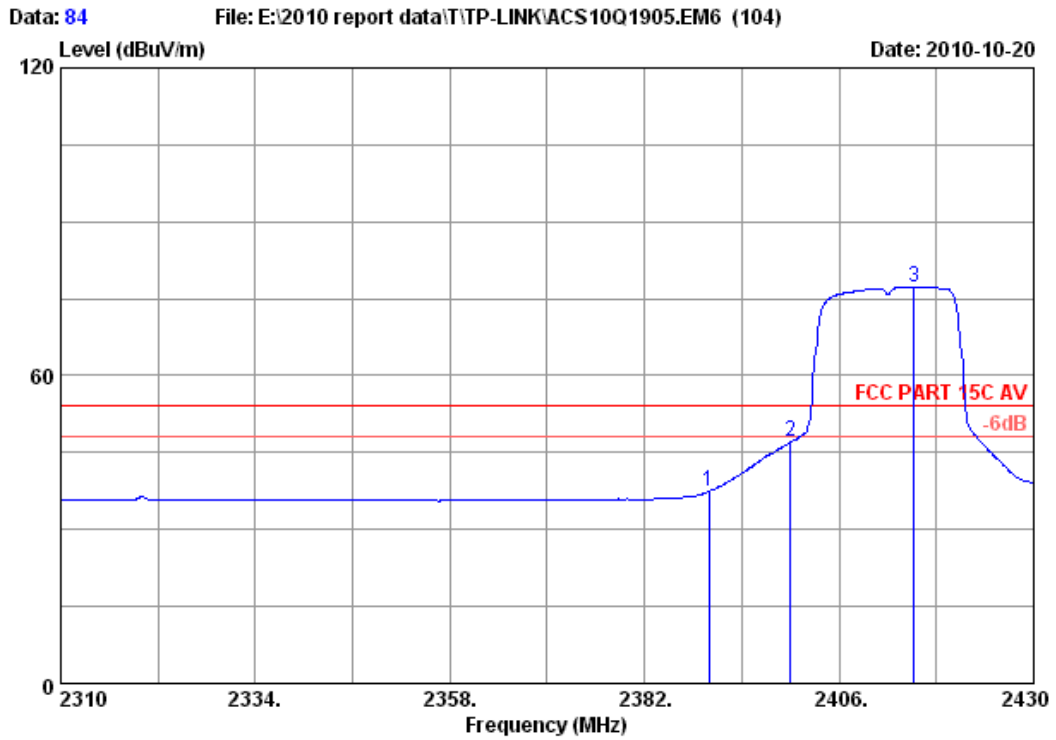


Site no. : RF Chamber Data no. : 83  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	47.65	47.86	74.00	26.14	Peak
2	2400.000	29.44	7.43	36.62	66.50	66.75	74.00	7.25	Peak
3	2413.560	29.45	7.43	36.62	89.87	90.13	74.00	-16.13	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

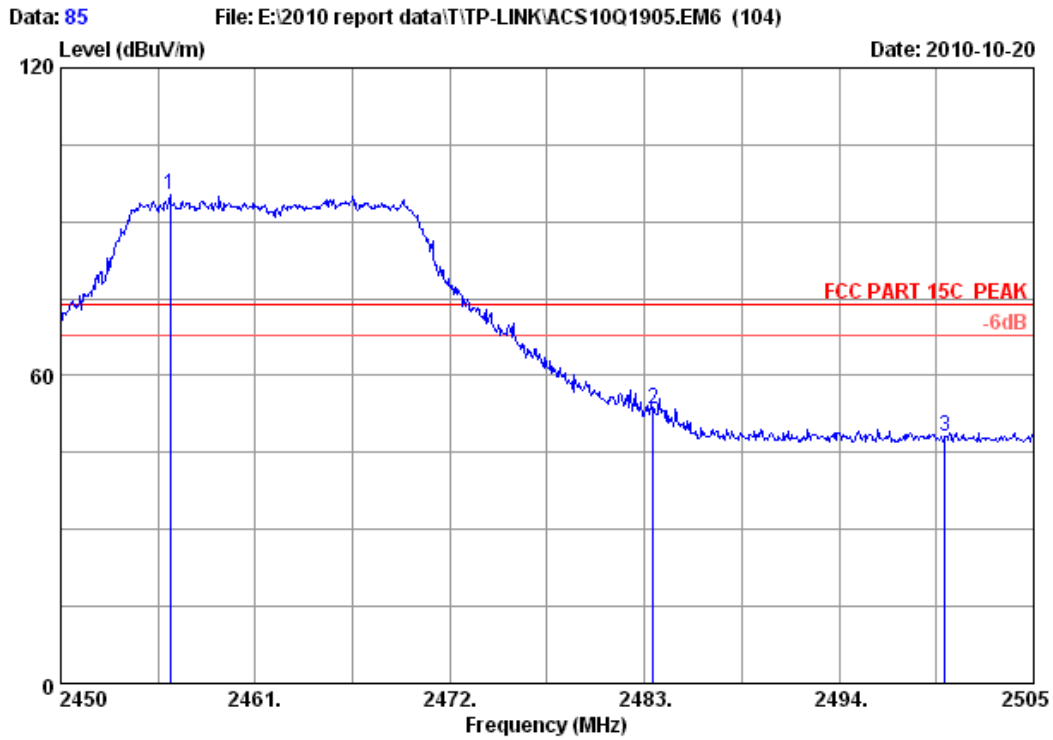


Site no. : RF Chamber Data no. : 84  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Cable Factor (dB/m)	Amp. loss (dB)	Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	37.23	37.44	54.00	16.56	Average
2	2400.000	29.44	7.43	36.62	46.86	47.11	54.00	6.89	Average
3	2415.240	29.45	7.43	36.62	76.97	77.23	54.00	-23.23	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

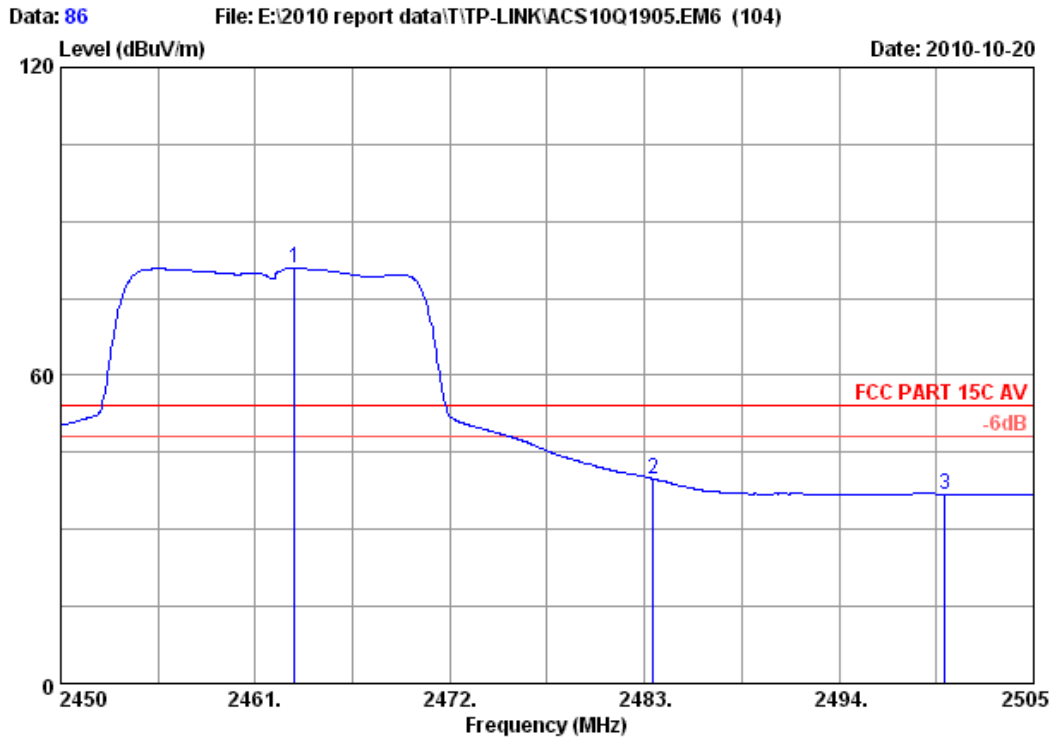


Site no. : RF Chamber Data no. : 85  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.160	29.48	7.50	36.61	94.80	95.17	74.00	-21.17	Peak
2	2483.500	29.49	7.58	36.60	53.06	53.53	74.00	20.47	Peak
3	2500.000	29.50	7.62	36.60	47.47	47.99	74.00	26.01	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

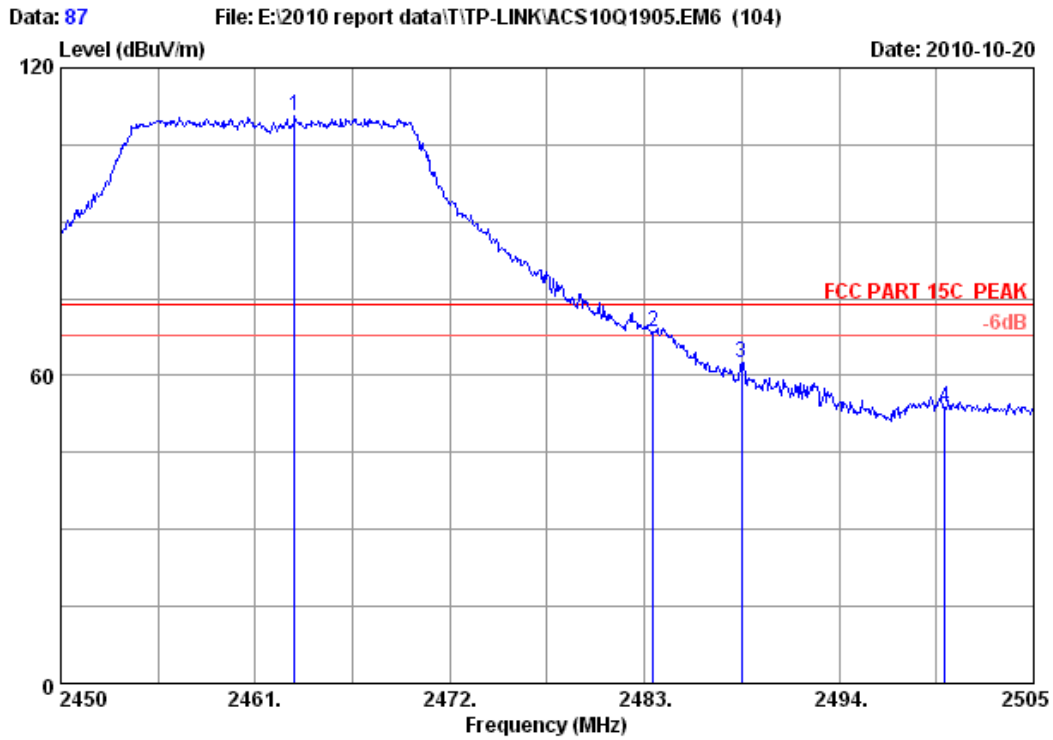


Site no. : RF Chamber Data no. : 86  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2463.200	29.48	7.54	36.61	80.51	80.92	54.00	-26.92	Average
2	2483.500	29.49	7.58	36.60	39.34	39.81	54.00	14.19	Average
3	2500.000	29.50	7.62	36.60	36.33	36.85	54.00	17.15	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

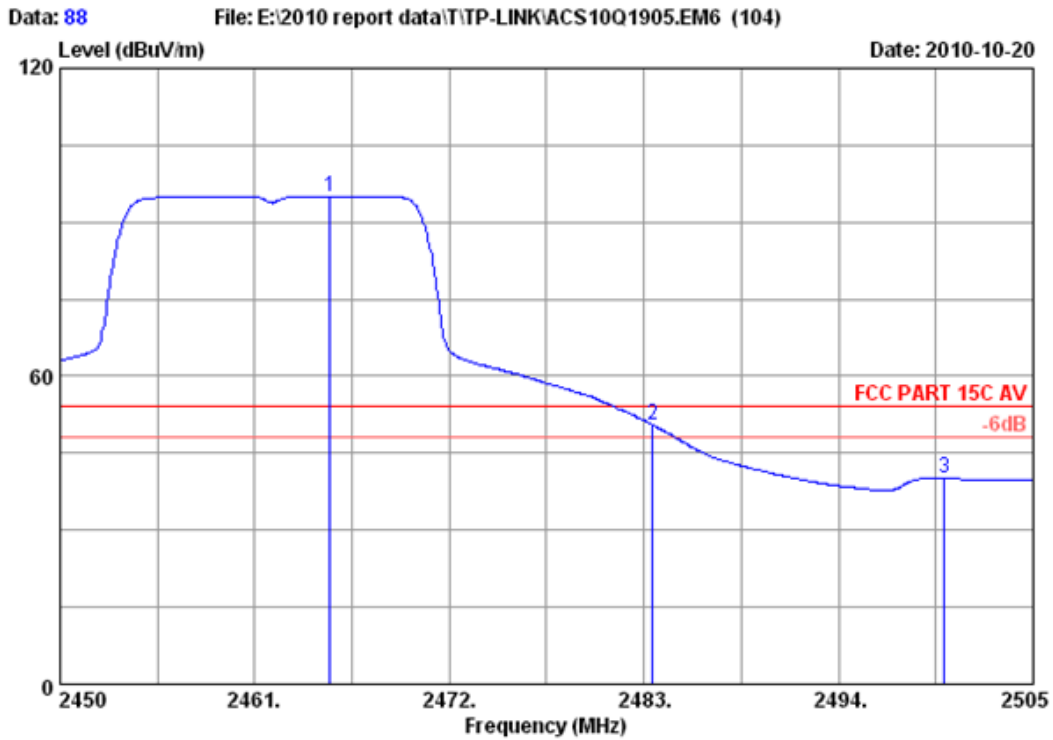


Site no. : RF Chamber Data no. : 87  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.200	29.48	7.54	36.61	110.13	110.54	74.00	-36.54	Peak
2	2483.500	29.49	7.58	36.60	67.96	68.43	74.00	5.57	Peak
3	2488.500	29.50	7.58	36.60	62.15	62.63	74.00	11.37	Peak
4	2500.000	29.50	7.62	36.60	53.13	53.65	74.00	20.35	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



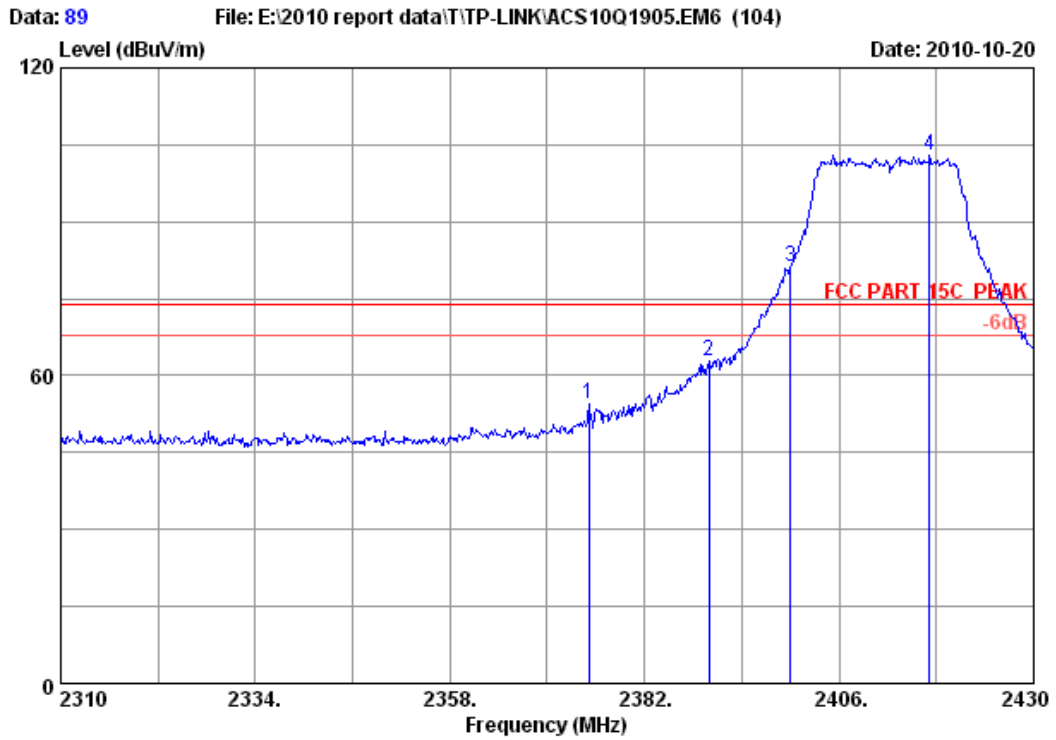
Site no. : RF Chamber Data no. : 88  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2465.235	29.48	7.54	36.61	94.68	95.09	54.00	-41.09	Average
2	2483.500	29.49	7.58	36.60	50.05	50.52	54.00	3.48	Average
3	2500.000	29.50	7.62	36.60	39.49	40.01	54.00	13.99	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



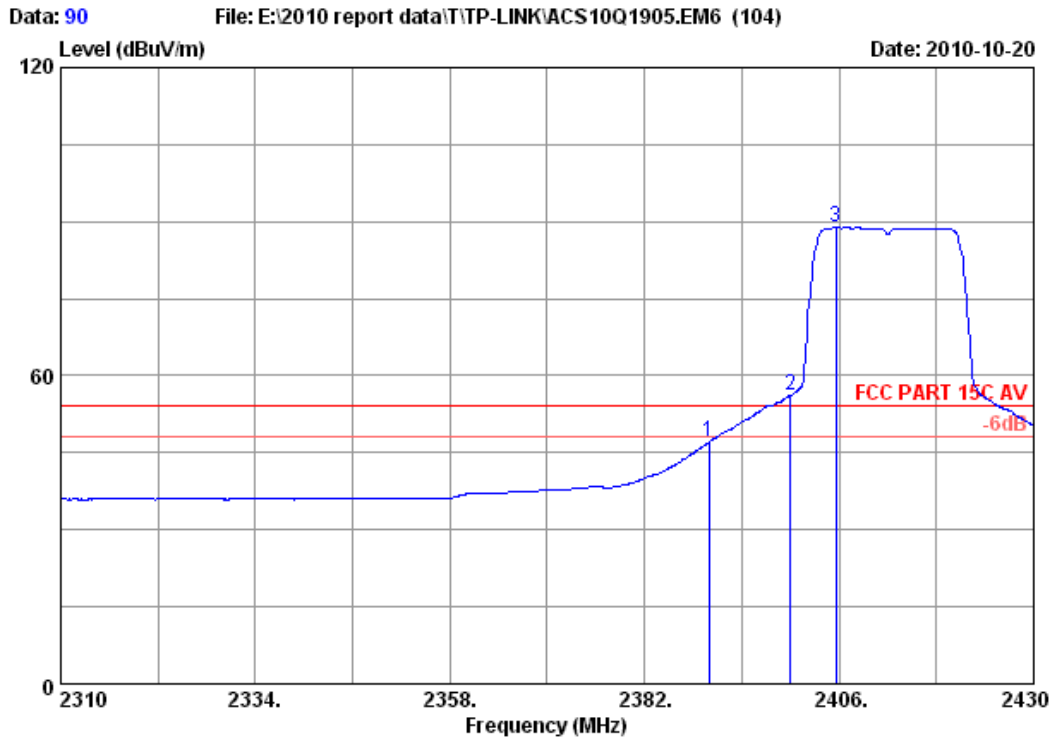


Site no. : RF Chamber Data no. : 89  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2375.160	29.43	7.35	36.62	54.45	54.61	74.00	19.39	Peak
2	2390.000	29.44	7.39	36.62	62.76	62.97	74.00	11.03	Peak
3	2400.000	29.44	7.43	36.62	81.08	81.33	74.00	-7.33	Peak
4	2417.160	29.45	7.43	36.61	102.81	103.08	74.00	-29.08	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

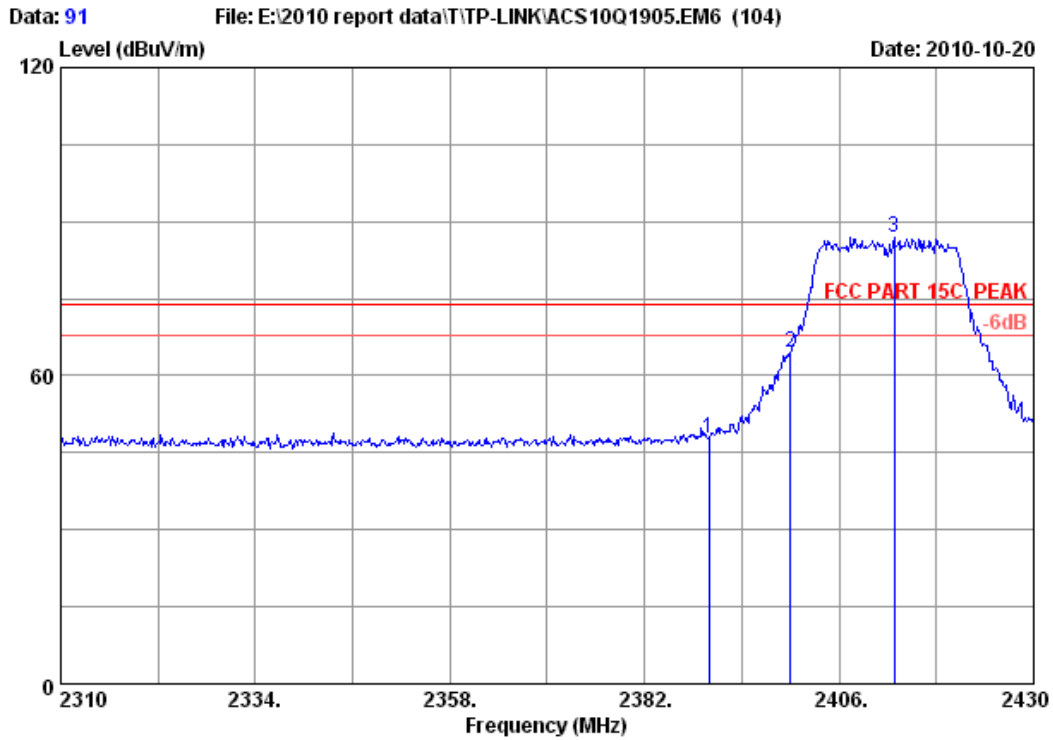


Site no. : RF Chamber Data no. : 90  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	46.88	47.09	54.00	6.91	Average
2	2400.000	29.44	7.43	36.62	55.87	56.12	54.00	-2.12	Average
3	2405.640	29.45	7.43	36.62	88.59	88.85	54.00	-34.85	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

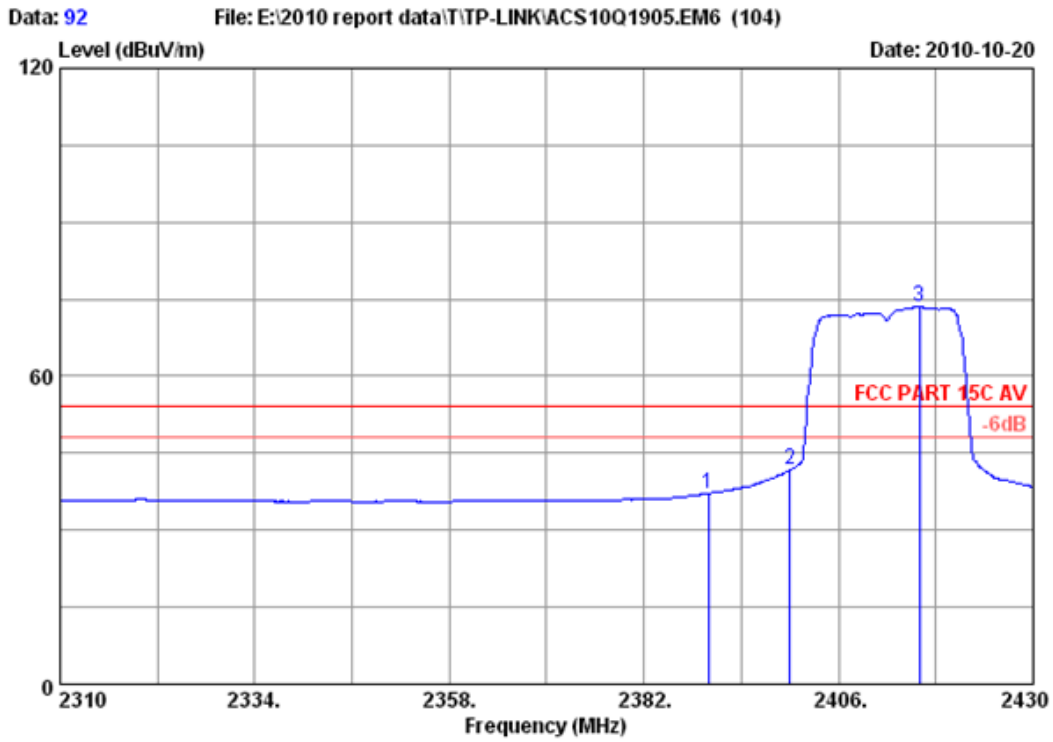


Site no. : RF Chamber Data no. : 91  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	47.68	47.89	74.00	26.11	Peak
2	2400.000	29.44	7.43	36.62	64.26	64.51	74.00	9.49	Peak
3	2412.840	29.45	7.43	36.62	86.71	86.97	74.00	-12.97	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

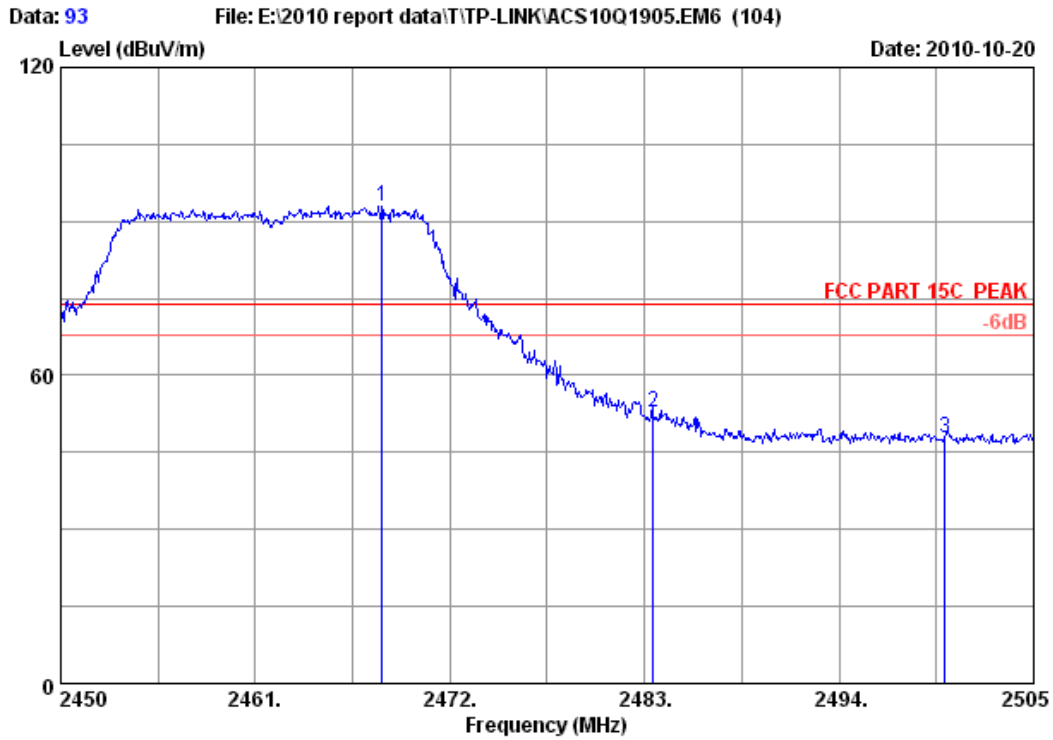


Site no. : RF Chamber Data no. : 92  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT20 CH1 2412MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	36.99	37.20	54.00	16.80	Average
2	2400.000	29.44	7.43	36.62	41.50	41.75	54.00	12.25	Average
3	2415.960	29.45	7.43	36.61	73.16	73.43	54.00	-19.43	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

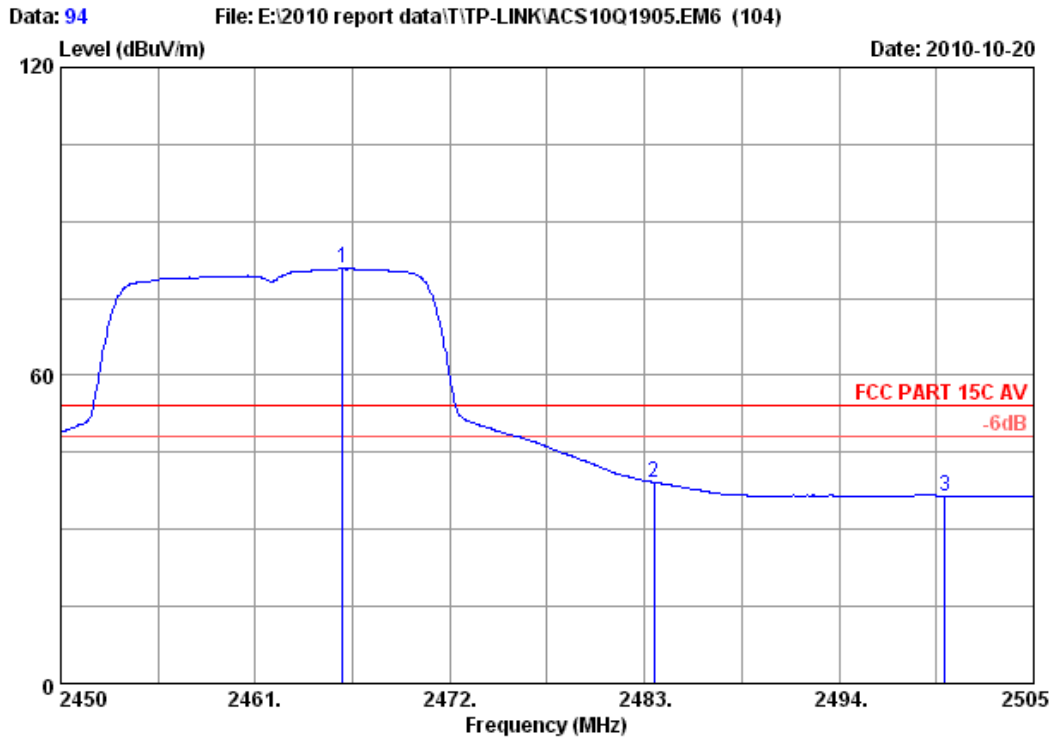


Site no. : RF Chamber Data no. : 93  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.150	29.48	7.54	36.60	92.61	93.03	74.00	-19.03	Peak
2	2483.500	29.49	7.58	36.60	52.41	52.88	74.00	21.12	Peak
3	2500.000	29.50	7.62	36.60	47.37	47.89	74.00	26.11	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

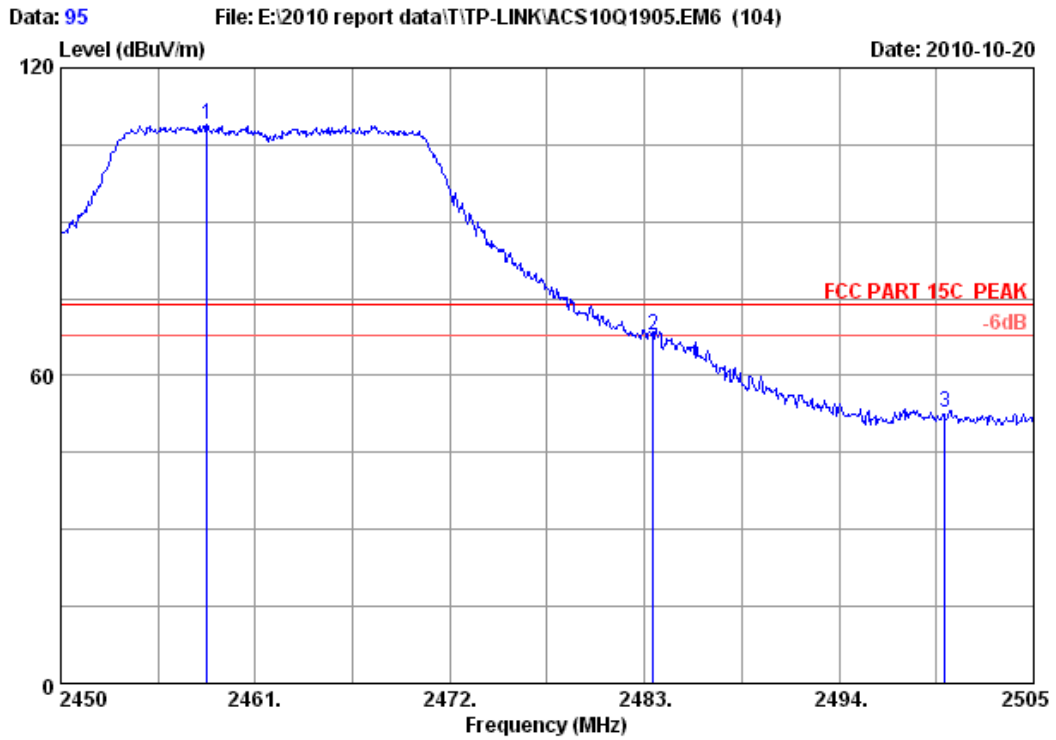


Site no. : RF Chamber Data no. : 94  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2465.950	29.48	7.54	36.61	80.35	80.76	54.00	-26.76	Average
2	2483.530	29.49	7.58	36.60	38.72	39.19	54.00	14.81	Average
3	2500.000	29.50	7.62	36.60	36.02	36.54	54.00	17.46	Average

Remarks:

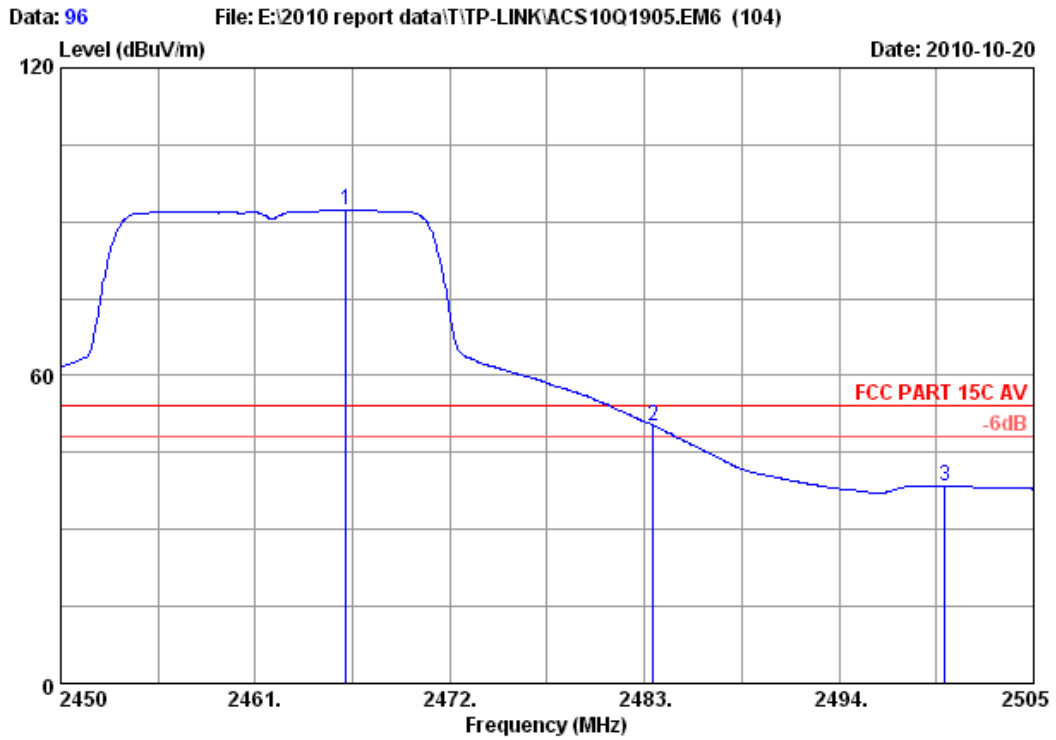
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 95  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.250	29.48	7.50	36.61	108.70	109.07	74.00	-35.07	Peak
2	2483.500	29.49	7.58	36.60	67.36	67.83	74.00	6.17	Peak
3	2500.000	29.50	7.62	36.60	52.38	52.90	74.00	21.10	Peak

Remarks:  
 1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



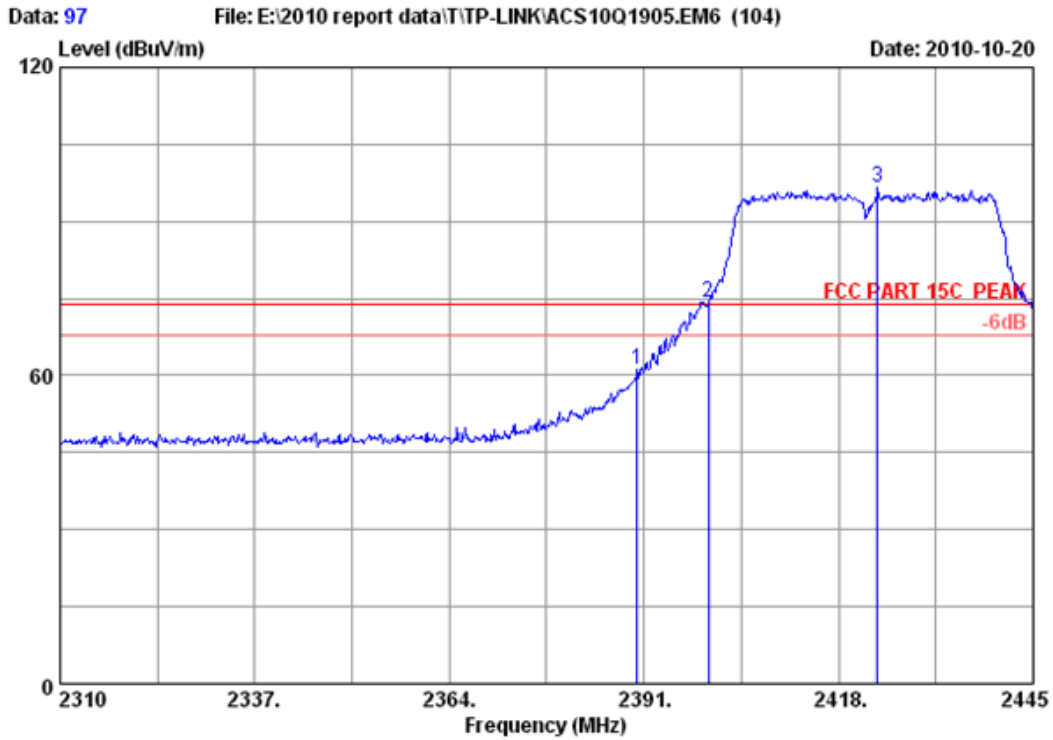
Site no. : RF Chamber Data no. : 96  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT20 CH11 2462MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2466.115	29.48	7.54	36.61	91.77	92.18	54.00	-38.18	Average
2	2483.500	29.49	7.58	36.60	49.80	50.27	54.00	3.73	Average
3	2500.000	29.50	7.62	36.60	37.94	38.46	54.00	15.54	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



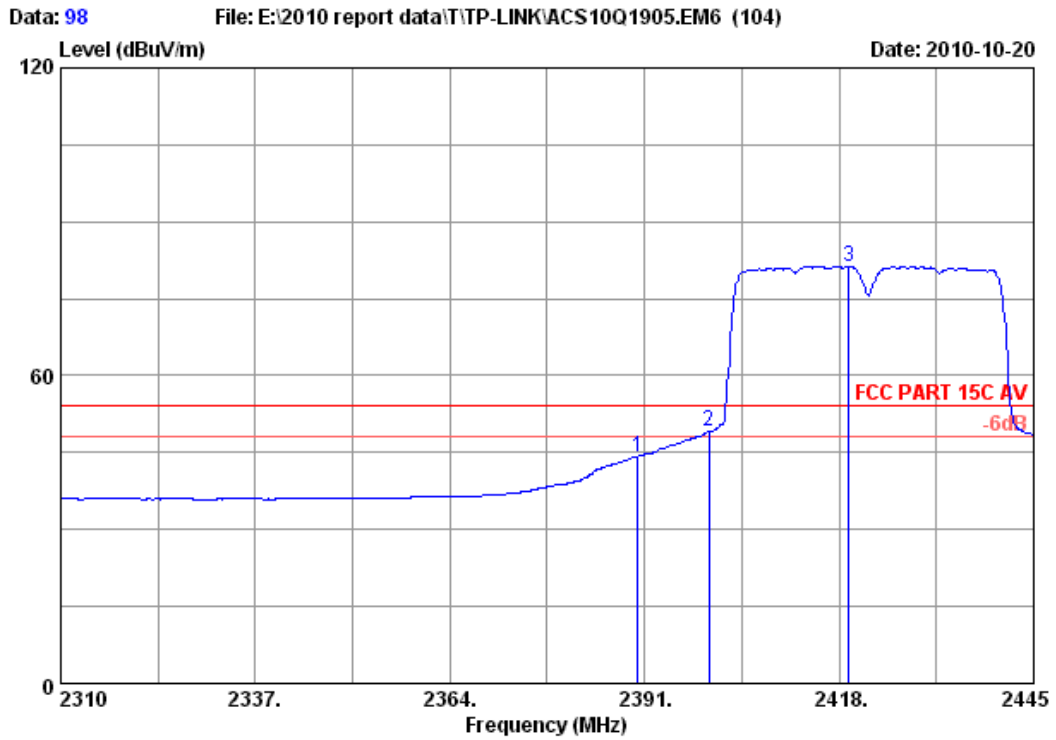


Site no. : RF Chamber Data no. : 97  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	61.03	61.24	74.00	12.76	Peak
2	2400.000	29.44	7.43	36.62	73.87	74.12	74.00	-0.12	Peak
3	2423.400	29.46	7.46	36.61	96.32	96.63	74.00	-22.63	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

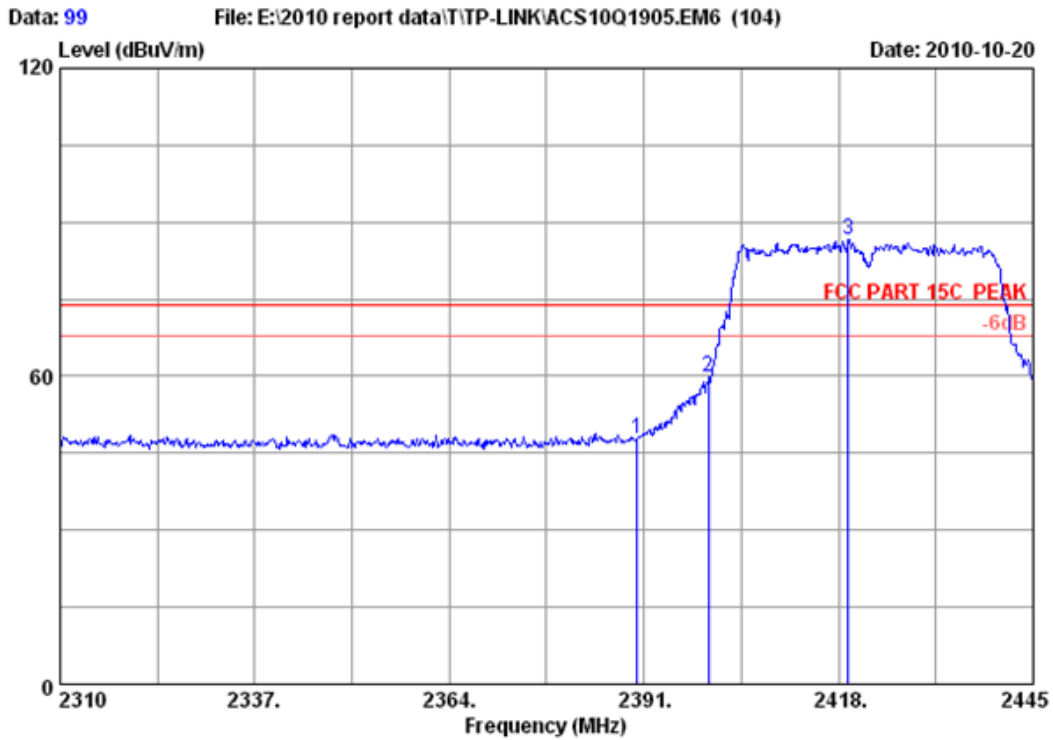


Site no. : RF Chamber Data no. : 98  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	44.03	44.24	54.00	9.76	Average
2	2400.000	29.44	7.43	36.62	48.79	49.04	54.00	4.96	Average
3	2419.350	29.45	7.46	36.61	81.05	81.35	54.00	-27.35	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

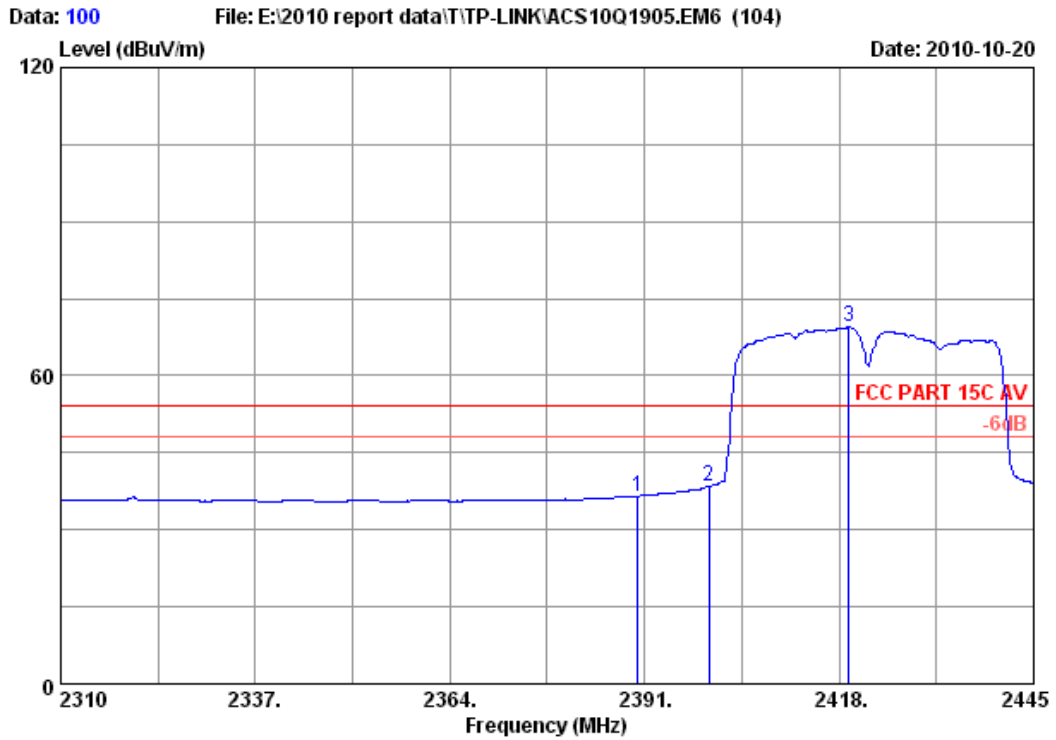


Site no. : RF Chamber Data no. : 99  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	47.62	47.83	74.00	26.17	Peak
2	2400.000	29.44	7.43	36.62	59.53	59.78	74.00	14.22	Peak
3	2419.350	29.45	7.46	36.61	86.41	86.71	74.00	-12.71	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

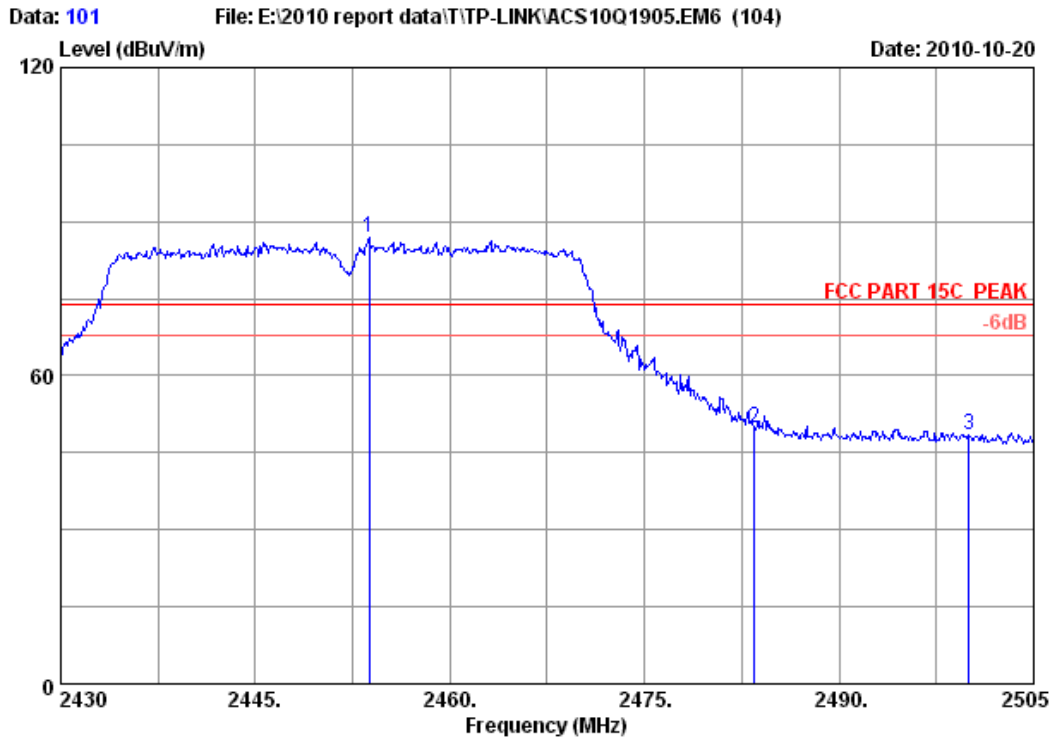


Site no. : RF Chamber Data no. : 100  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH1 2422MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	29.44	7.39	36.62	36.36	36.57	54.00	17.43	Average
2	2400.000	29.44	7.43	36.62	38.27	38.52	54.00	15.48	Average
3	2419.350	29.45	7.46	36.61	69.10	69.40	54.00	-15.40	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

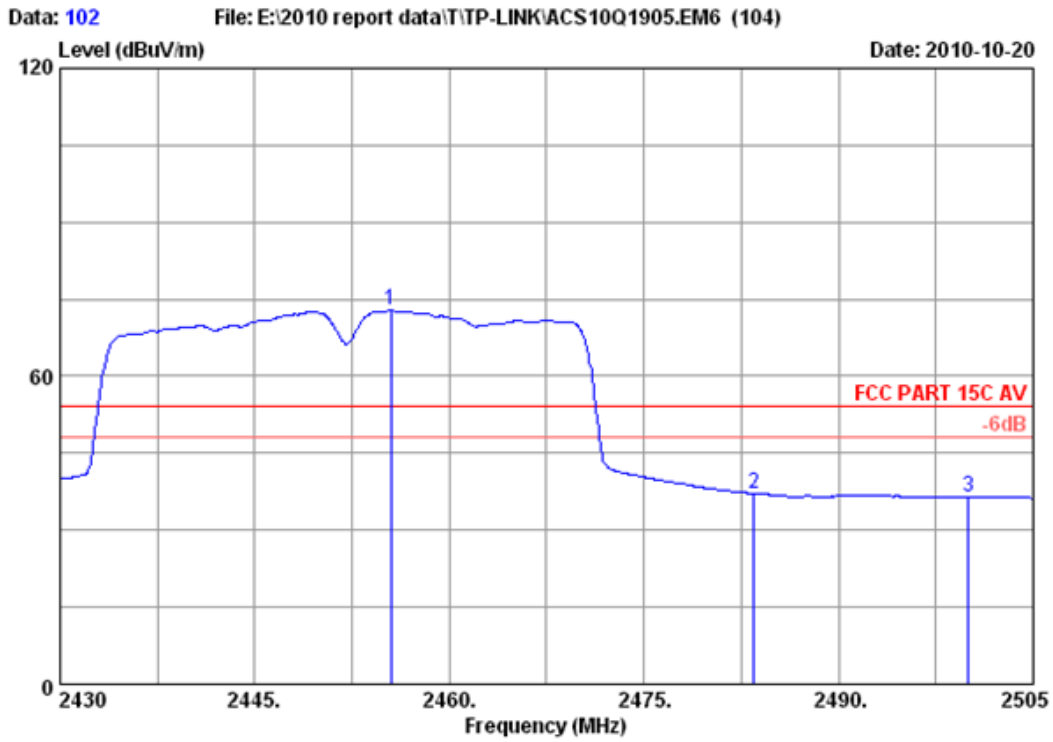


Site no. : RF Chamber Data no. : 101  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2453.775	29.48	7.50	36.61	86.42	86.79	74.00	-12.79	Peak
2	2483.500	29.49	7.58	36.60	49.39	49.86	74.00	24.14	Peak
3	2500.000	29.50	7.62	36.60	47.81	48.33	74.00	25.67	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

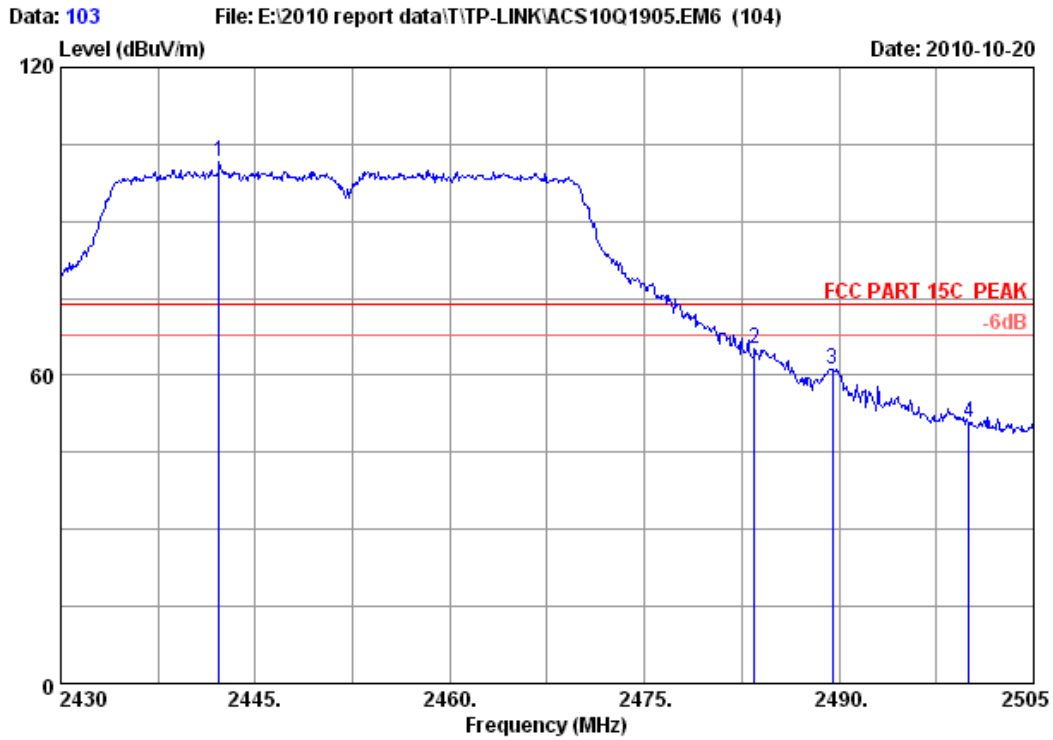


Site no. : RF Chamber Data no. : 102  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.500	29.48	7.50	36.61	72.44	72.81	54.00	-18.81	Average
2	2483.500	29.49	7.58	36.60	36.70	37.17	54.00	16.83	Average
3	2500.000	29.50	7.62	36.60	35.92	36.44	54.00	17.56	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

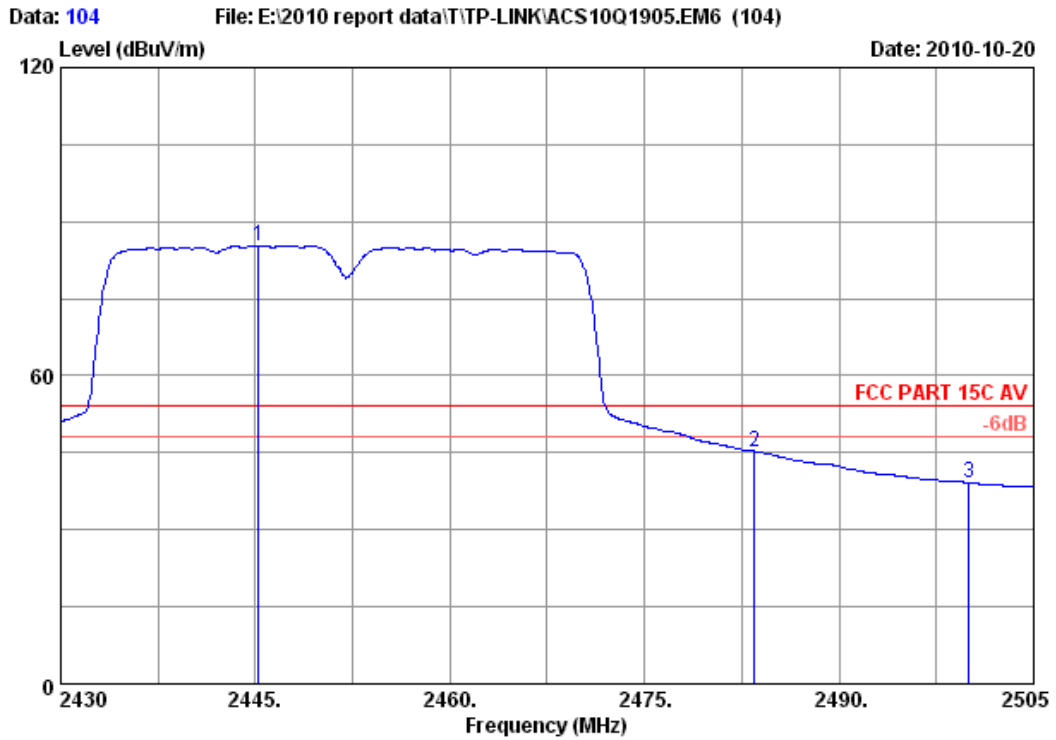


Site no. : RF Chamber Data no. : 103  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2442.225	29.47	7.50	36.61	101.36	101.72	74.00	-27.72	Peak
2	2483.500	29.49	7.58	36.60	64.68	65.15	74.00	8.85	Peak
3	2489.475	29.50	7.58	36.60	60.77	61.25	74.00	12.75	Peak
4	2500.000	29.50	7.62	36.60	50.20	50.72	74.00	23.28	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : RF Chamber Data no. : 104  
 Dis. / Ant. : 3m 3115(0911) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Sunny-lu  
 EUT : 150Mbps Wireless N Router  
 Power : DC 9V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11n HT40 CH7 2452MHz Tx  
 M/N : TL-WR741ND

	Ant. Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2445.225	29.47	7.50	36.61	84.97	85.33	54.00	-31.33	Average
2	2483.500	29.49	7.58	36.60	44.78	45.25	54.00	8.75	Average
3	2500.000	29.50	7.62	36.60	38.58	39.10	54.00	14.90	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



## 7. 6dB Bandwidth Test

### 7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08,10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1Year

### 7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

### 7.3. Test Procedure

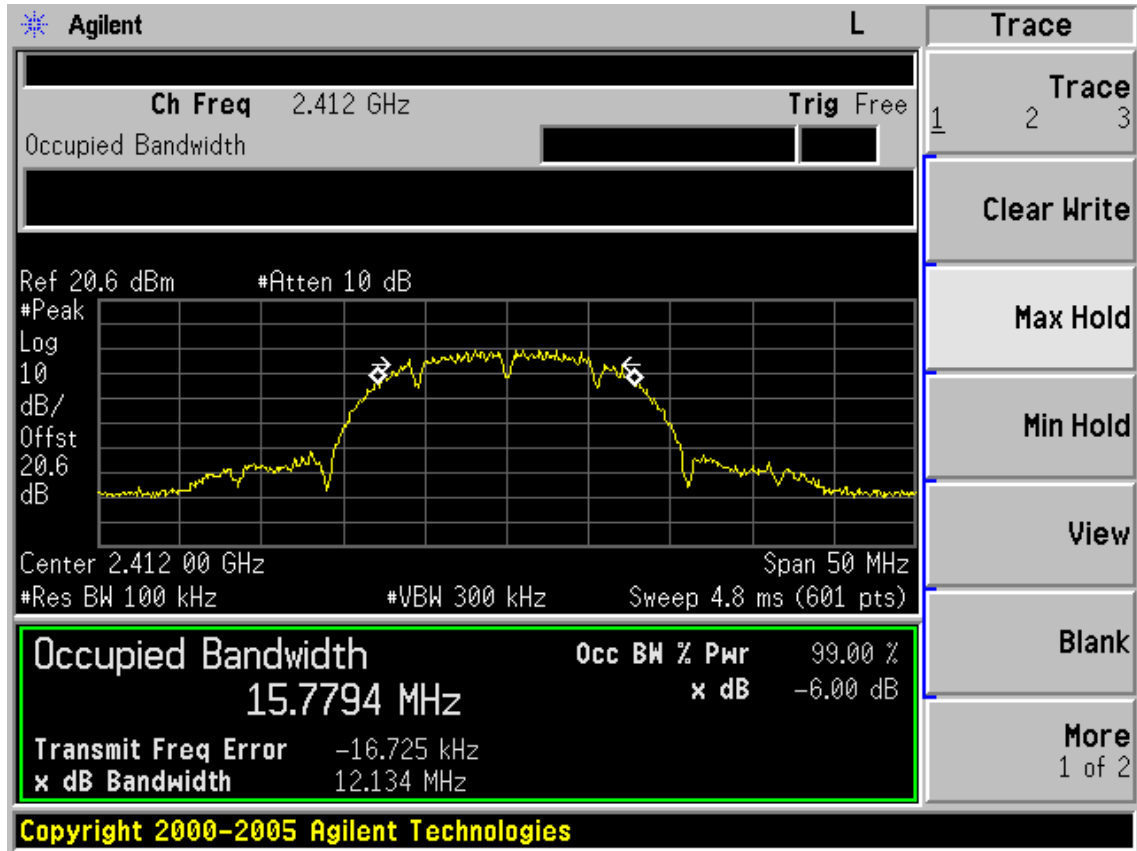
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 7.4. Test Results

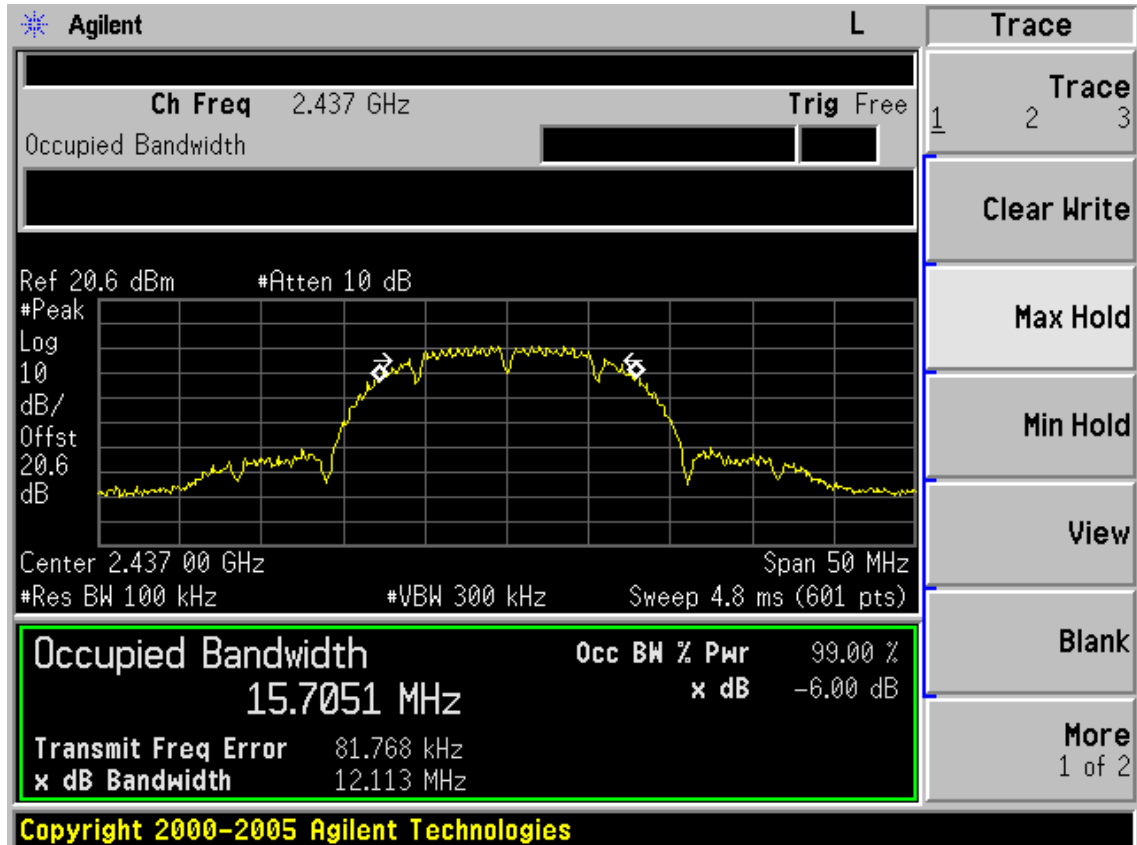
EUT:150Mbps Wireless N Router		
M/N:TL-WR741ND		
Test date:2010-12-04	Pressure: 100.6 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature : 25 °C

Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 5 dBi
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
11b	CH1	12.134	>500
	CH6	12.113	>500
	CH11	12.607	>500
11g	CH1	16.605	>500
	CH6	16.550	>500
	CH11	16.601	>500
11n HT20	CH1	17.780	>500
	CH6	17.751	>500
	CH11	17.752	>500
11n HT40	CH1	36.403	>500
	CH4	36.125	>500
	CH7	36.184	>500
Conclusion : PASS			

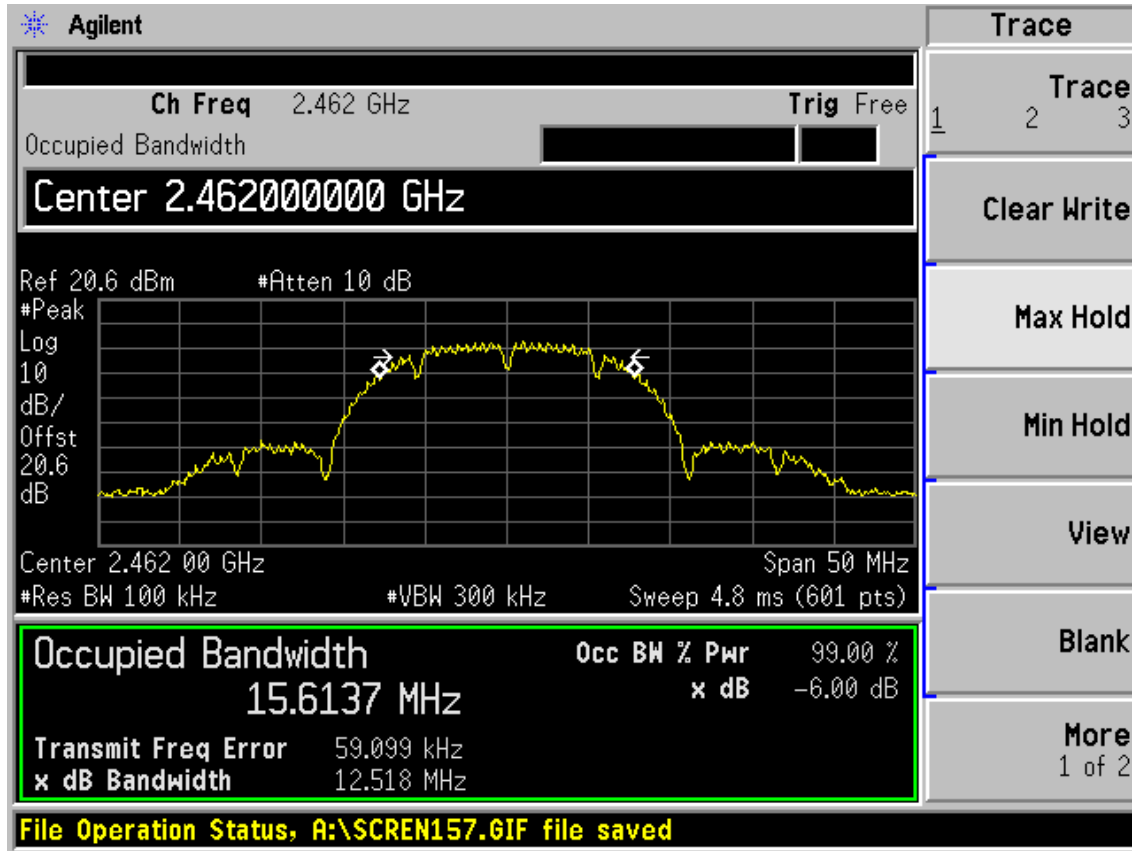
Test Mode: IEEE 802.11b TX  
 Test CH1: 2412MHz



Test CH6: 2437MHz

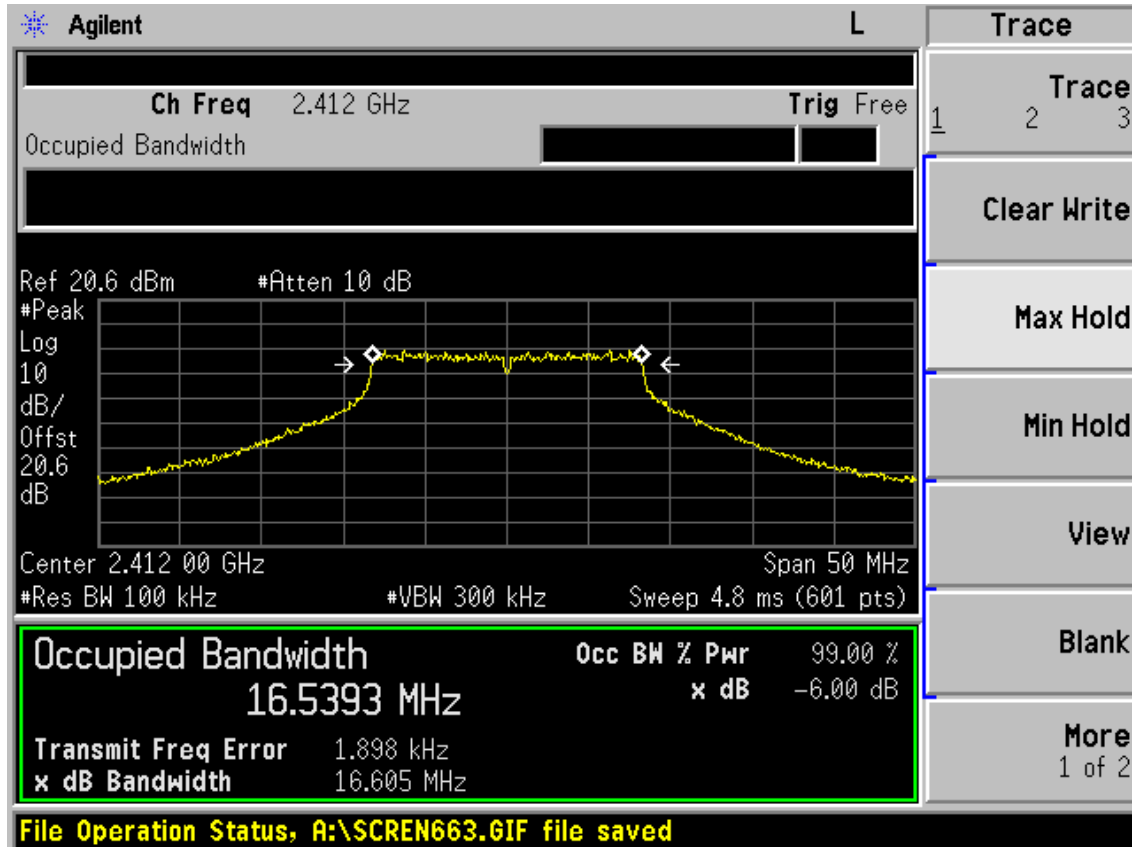


Test CH11: 2462MHz

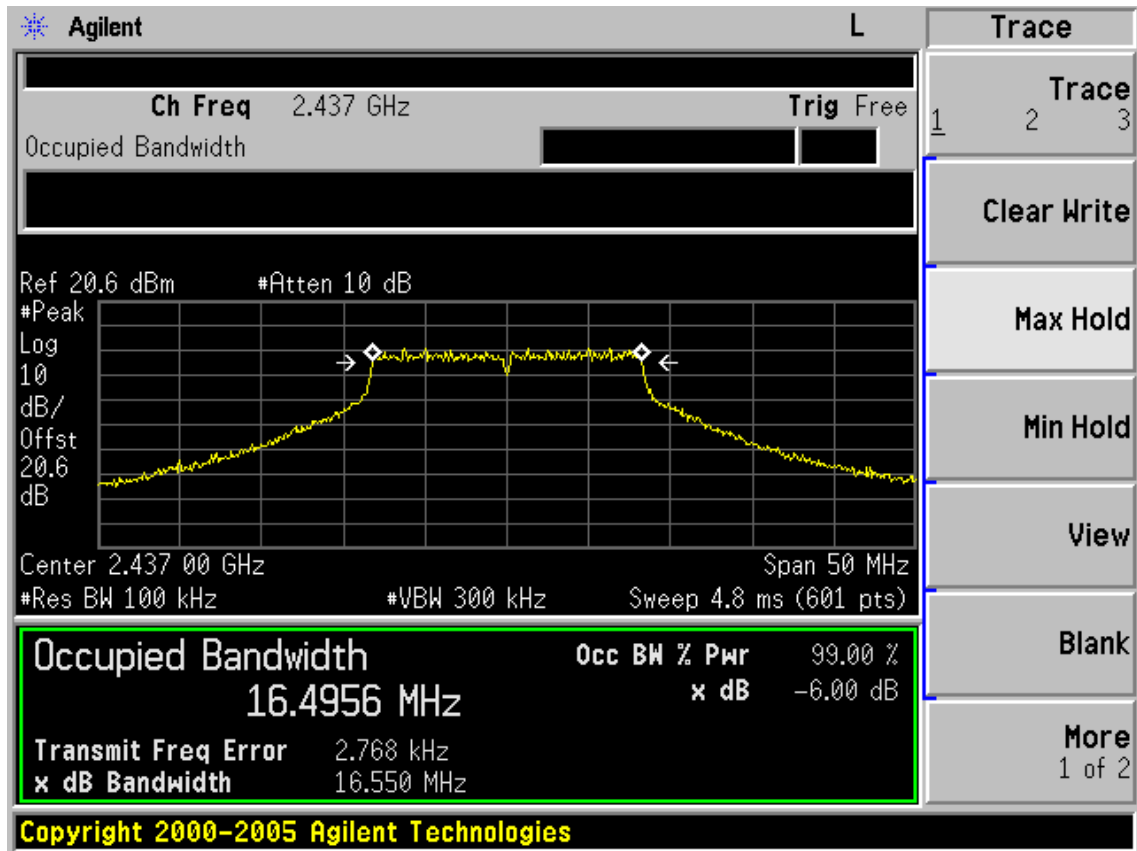


Test Mode: IEEE 802.11g TX

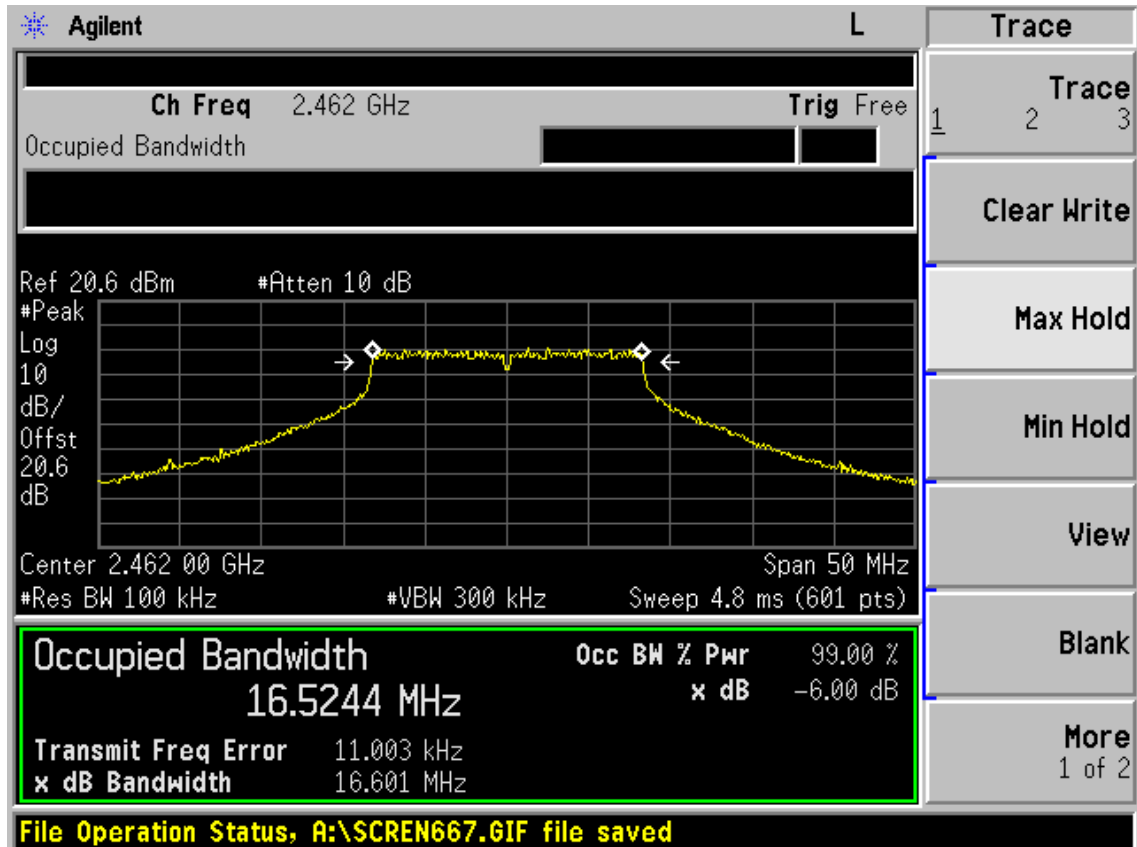
Test CH1: 2412MHz



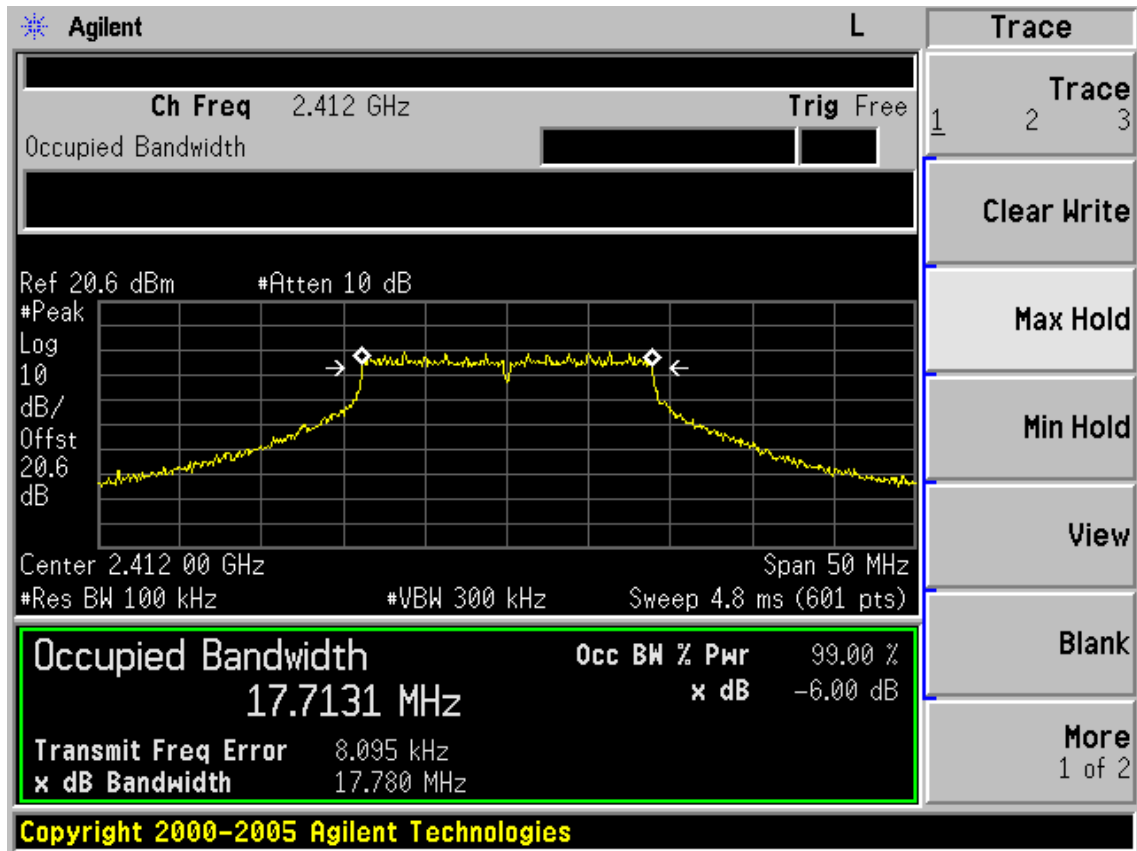
Test CH6: 2437MHz



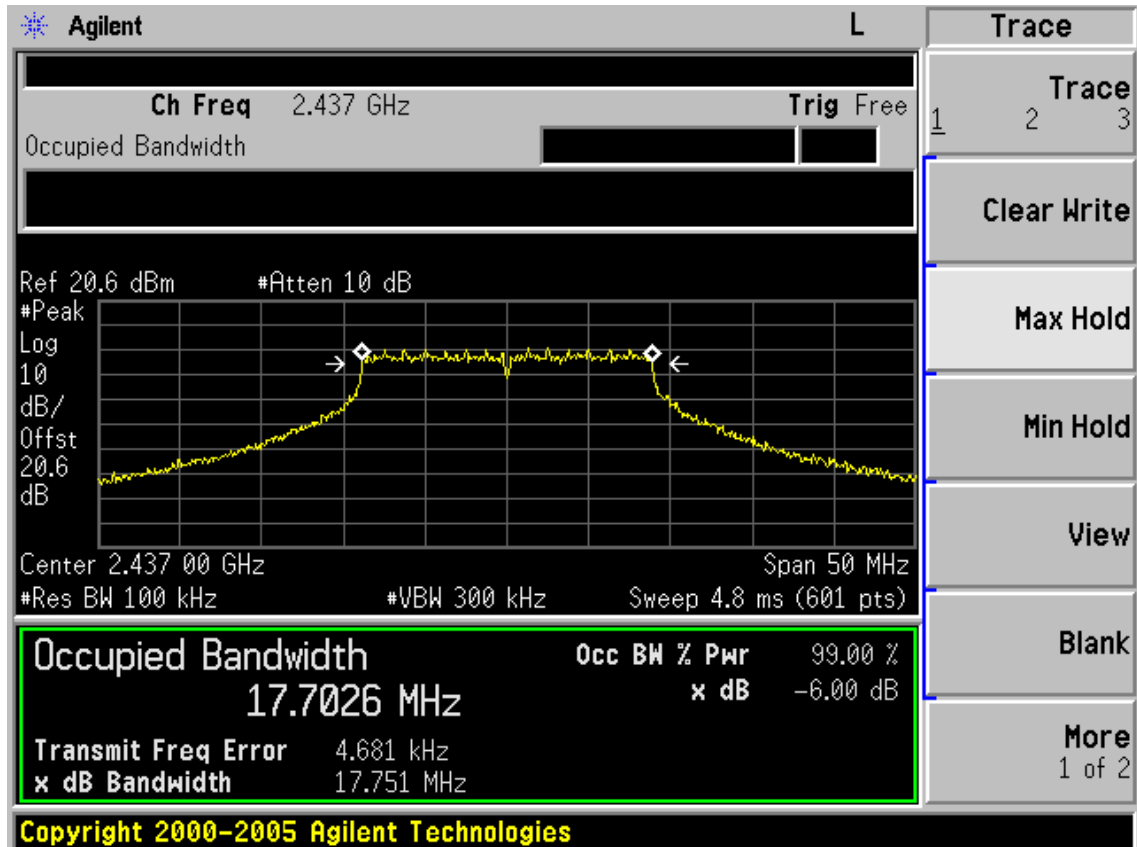
Test CH11: 2462MHz



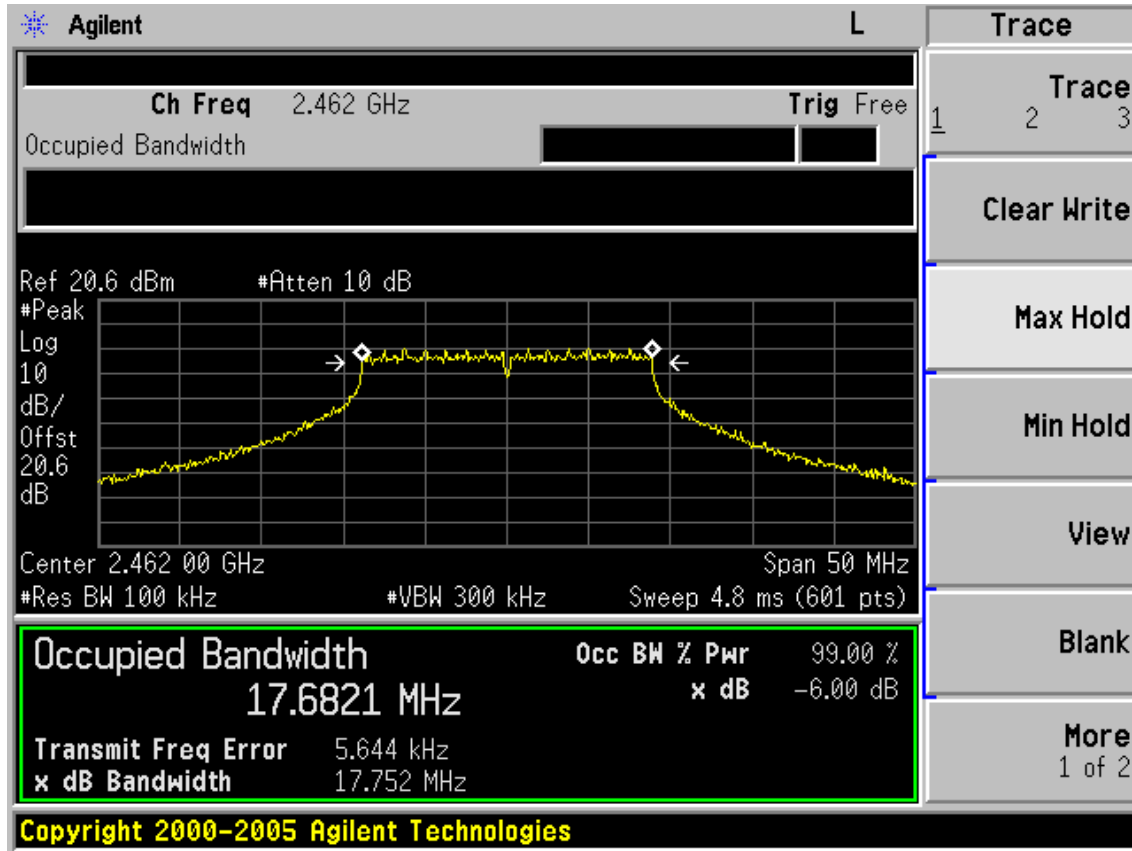
Test Mode: IEEE 802.11n HT20 TX  
 Test CH1: 2412MHz



Test CH6: 2437MHz

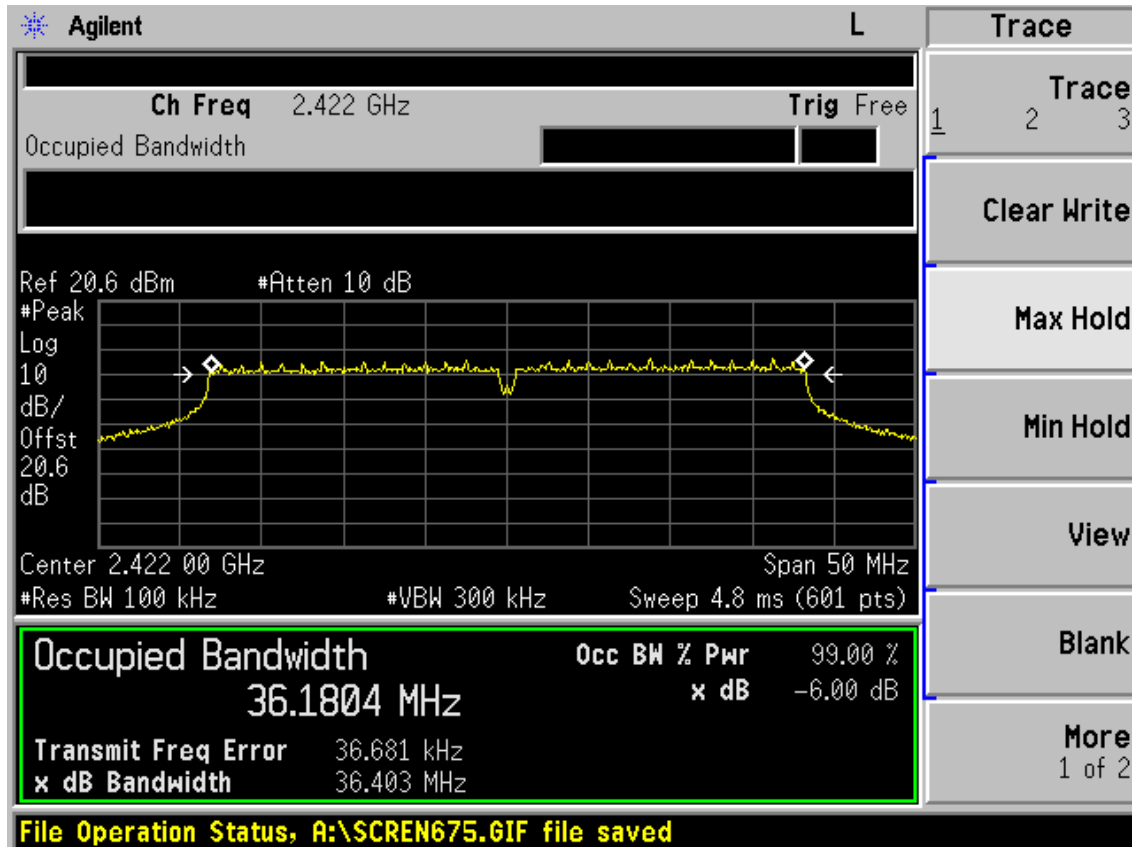


Test CH11: 2462MHz

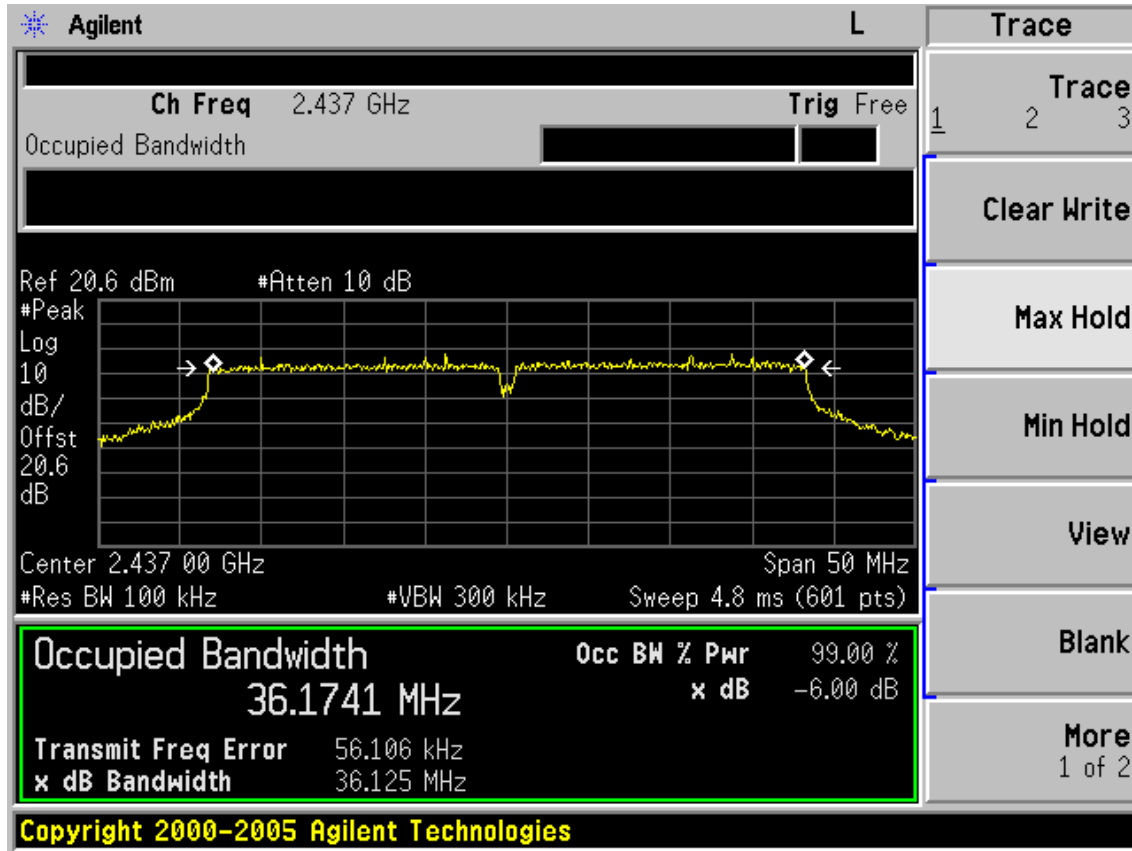


Test Mode: IEEE 802.11n HT40 TX

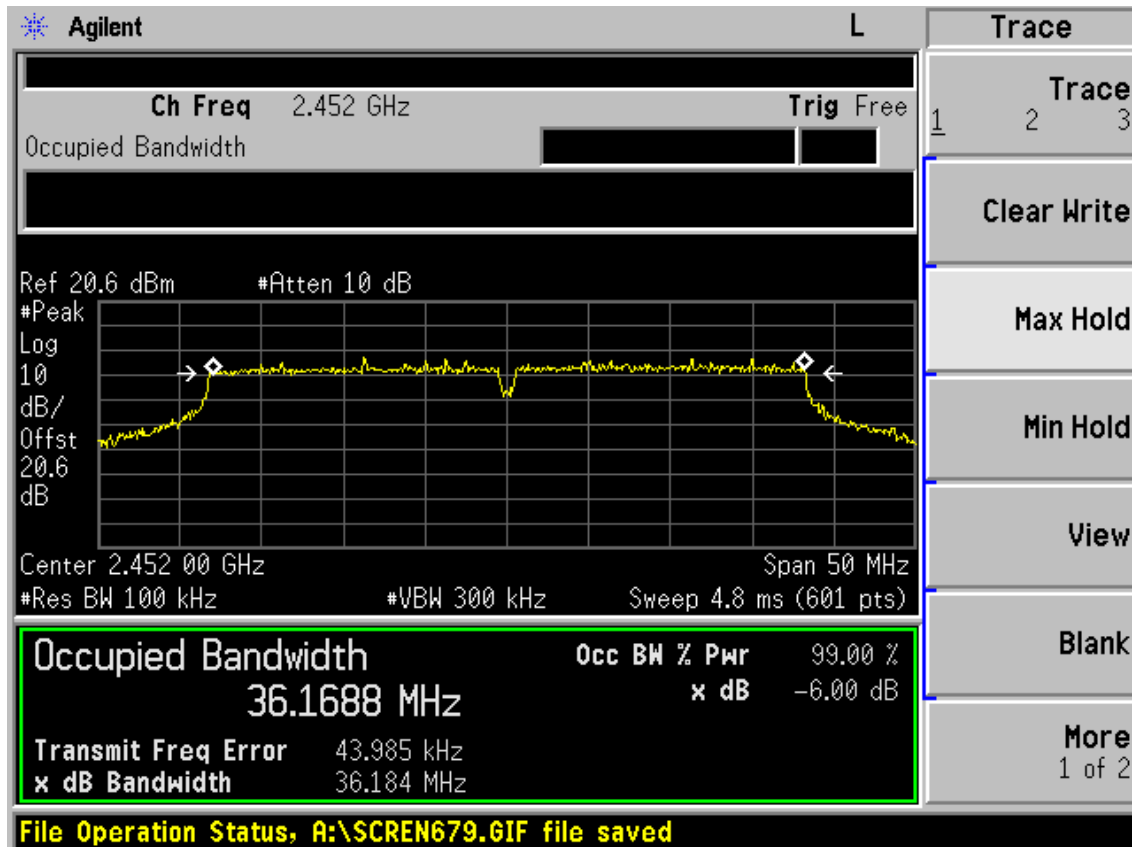
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



## 8. OUTPUT POWER TEST

### 8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Power meter	Anritsu	ML2487A	6K00002472	May.08,10	1 Year
2.	Power sensor	Anritsu	MA2491A	0033005	May.08,10	1 Year
3	Attenuator	Agilent	8491B	MY39262165	May.08,10	1 Year
4	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,10	1 Year

### 8.2. Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

### 8.3. Test Procedure

- 1, Connected the EUT's antenna port to measure device by 20dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is above 6dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So the channel power measure function of Spectrum Analyzer was used to measure out the PK output power of each test modes'

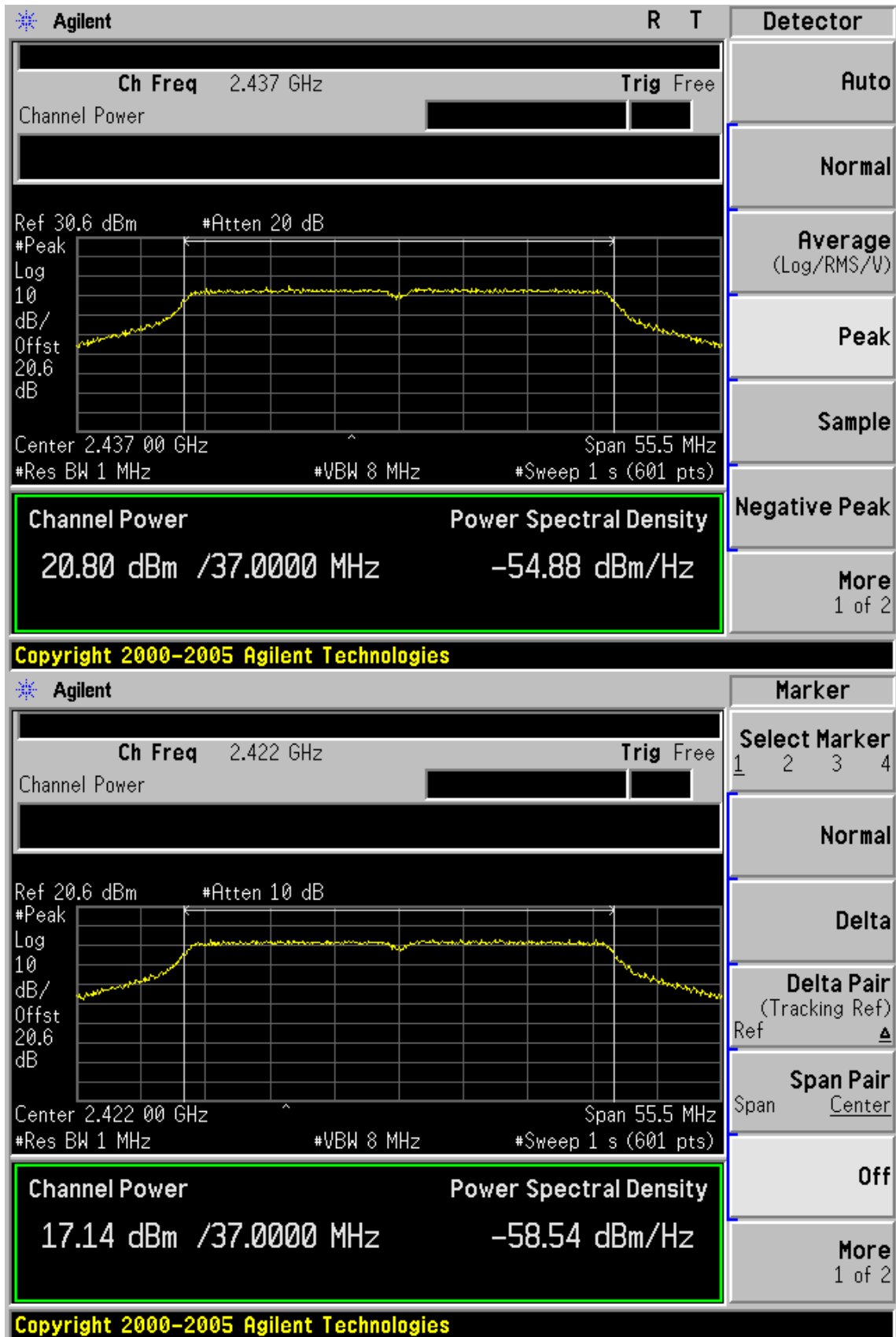
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

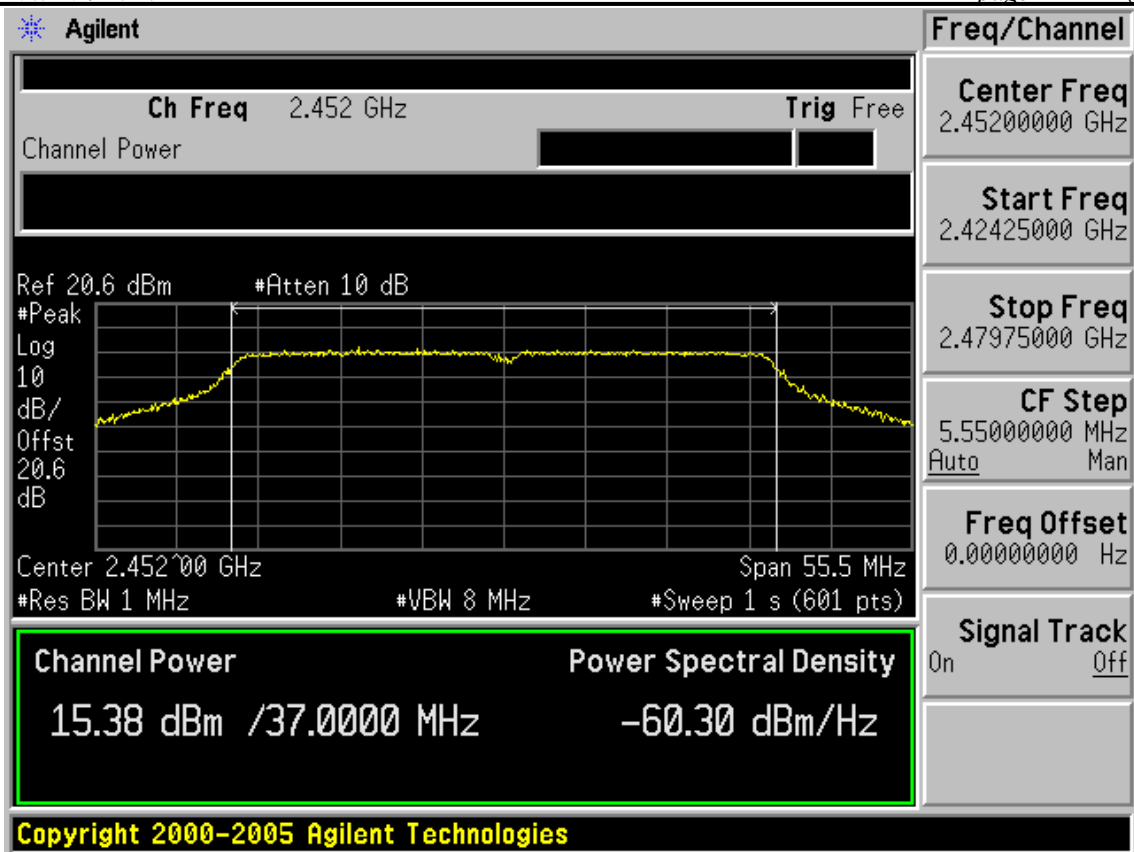


### 8.4. Test Results

EUT:150Mbps Wireless N Router		
M/N:TL-WR741ND		
Test date:2010-12-03	Pressure: 100.2 kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature : 25 °C

Cable loss: 0.6dB		Attenuator loss: 20 dB	Antenna Gain: 5.0dBi
Test Mode	CH	Peak output Power ( dBm )	Limit (dBm)
11b	CH1	21.30	30
	CH6	21.55	30
	CH11	21.78	30
11g	CH1	19.82	30
	CH6	22.78	30
	CH11	19.56	30
11n HT20	CH1	18.12	30
	CH6	22.50	30
	CH11	17.97	30
11n HT40	CH1	17.14	30
	CH4	20.80	30
	CH7	15.38	30
Conclusion : PASS			





## 9. POWER SPECTRAL DENSITY TEST

### 9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E4446A	US44300459	May.08, 10	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08, 10	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08, 10	1Year

### 9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 9.3. Test Procedure

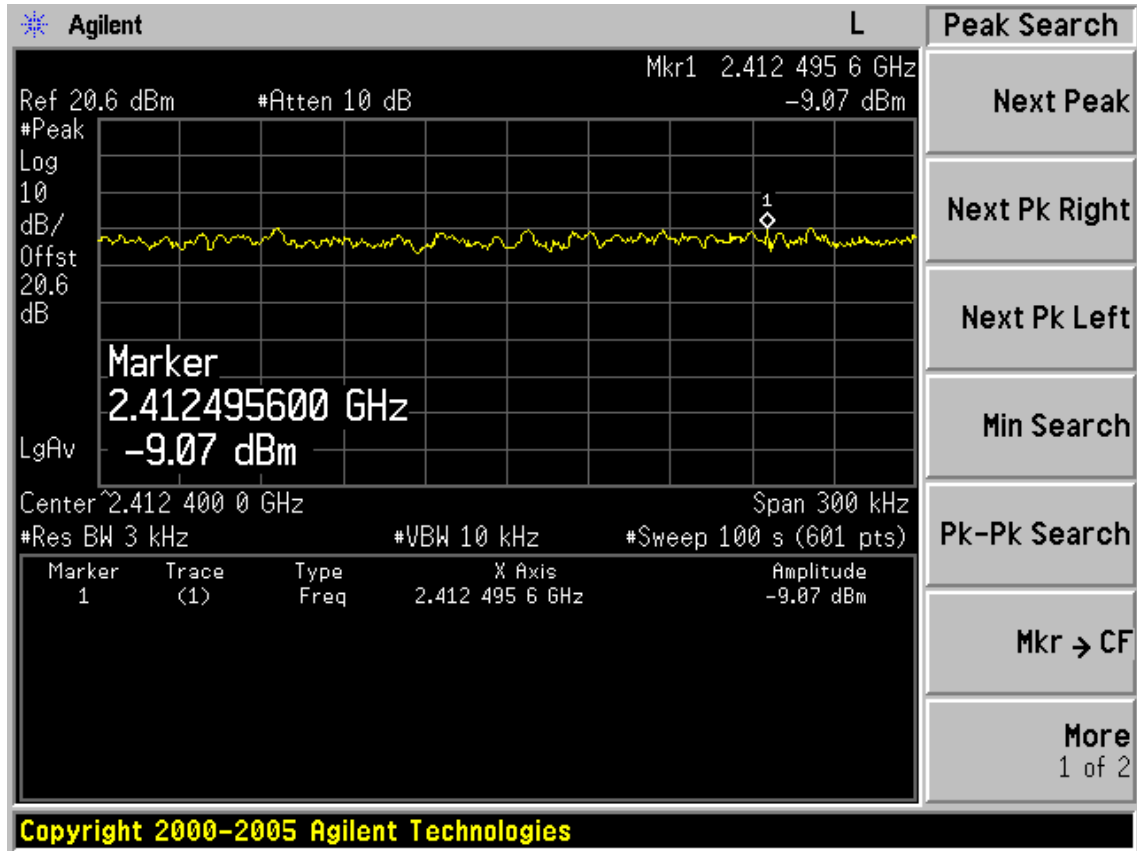
- 1, Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
- 2, Follow the test procedure as described in ANSI C.10: 2009 Clause 6.11.2.3 to measure out each test modes and chain's power density with 3KHz.

### 9.4. Test Results

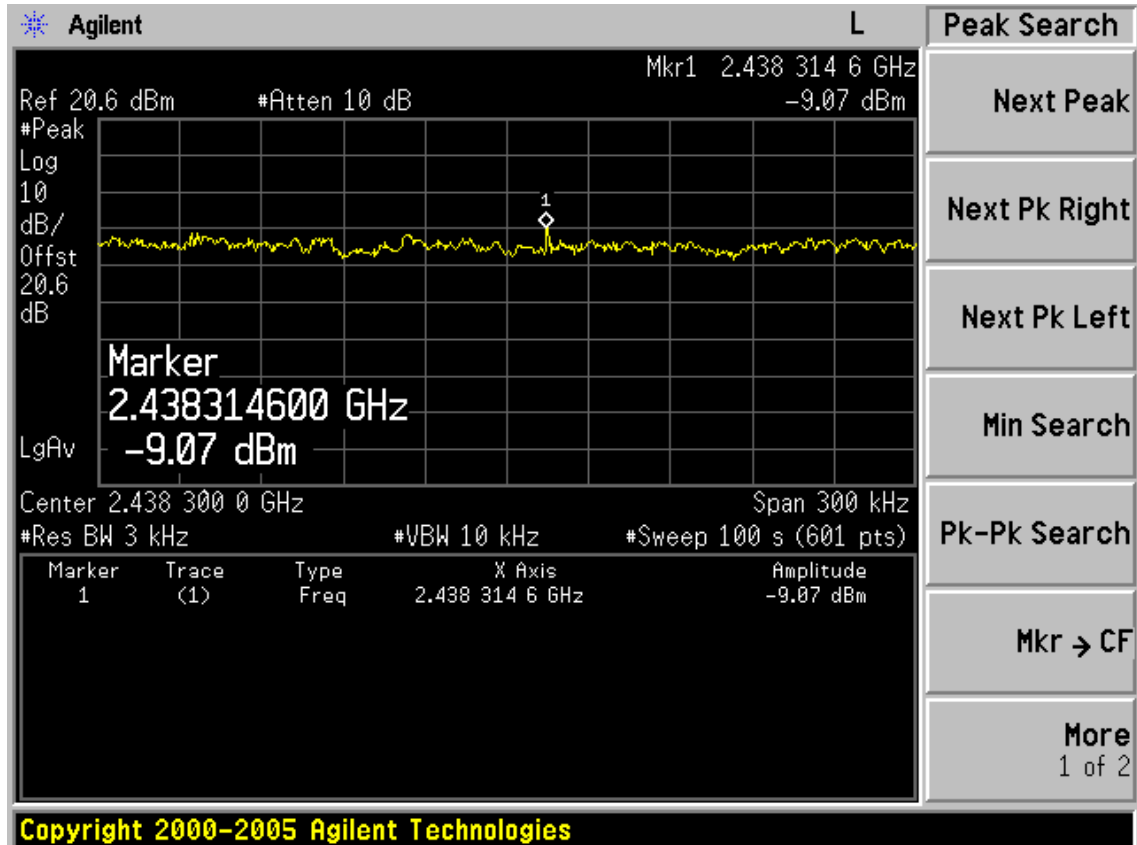
EUT:150Mbps Wireless N ADSL2+Modem Router		
M/N:TD-W8951ND		
Test date:2010-11-30	Pressure: 100.6kpa	Humidity: 60 %
Tested by:Sunny-lu	Test site: RF Site	Temperature : 25°C

Cable loss: 0.6 dB		Attenuator loss: 20 dB	Antenna Gain: 5.0 dBi
Test Mode	CH	Power density ( dBm/3KHz )	Limit (dBm/3KHz)
11b	CH1	-9.10	8
	CH6	-8.41	8
	CH11	-8.12	8
11g	CH1	-13.40	8
	CH6	-12.73	8
	CH11	-12.17	8
11n HT20	CH1	-12.98	8
	CH6	-12.30	8
	CH11	-11.82	8
11n HT40	CH1	-13.23	8
	CH4	-12.85	8
	CH7	-12.07	8
Conclusion : PASS			

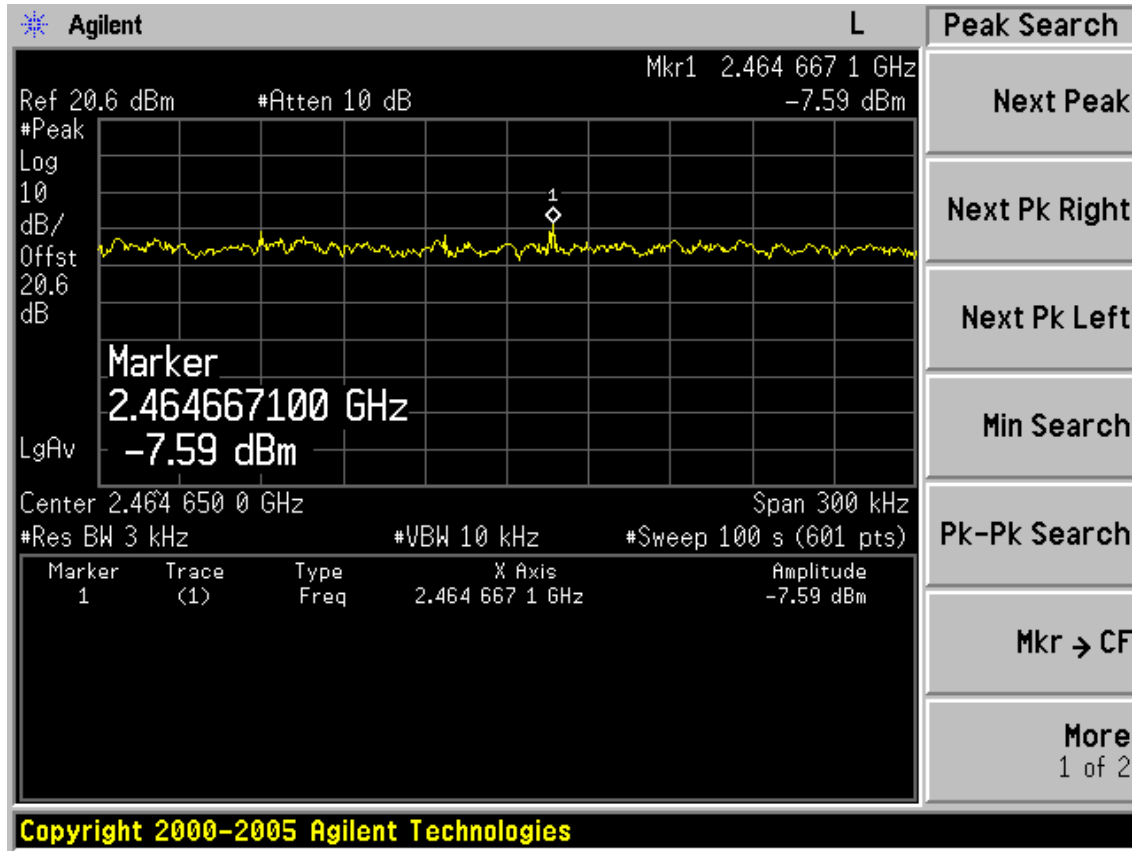
Test Mode: IEEE 802.11b TX  
 Test CH1: 2412MHz



Test CH6: 2437MHz

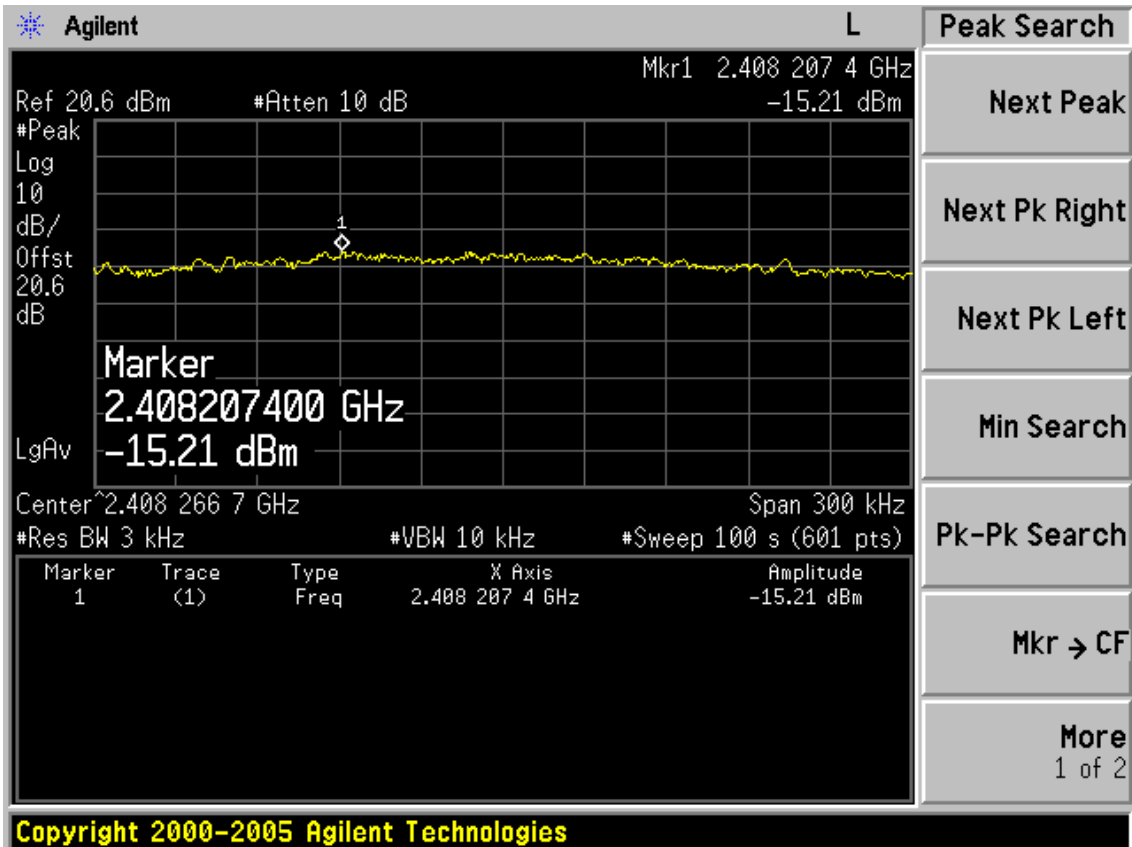


Test CH1: 2462MHz

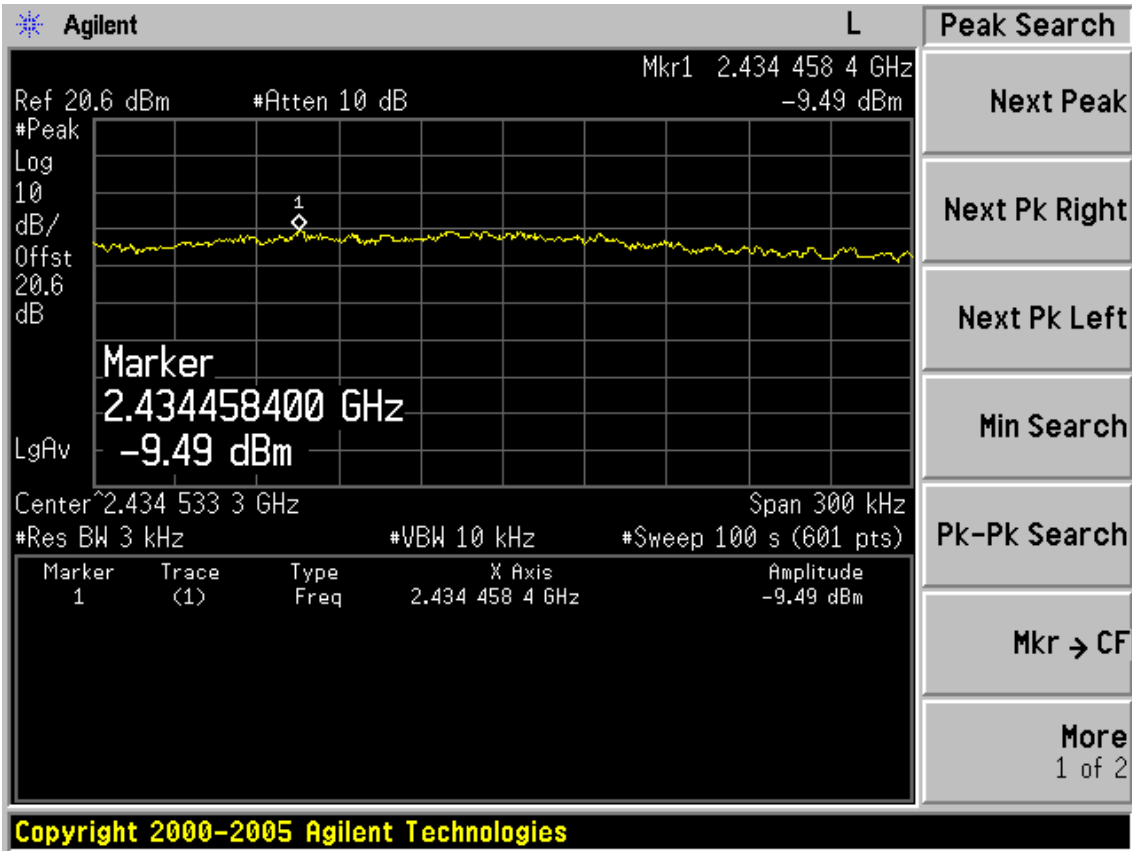


Test Mode: IEEE 802.11g TX

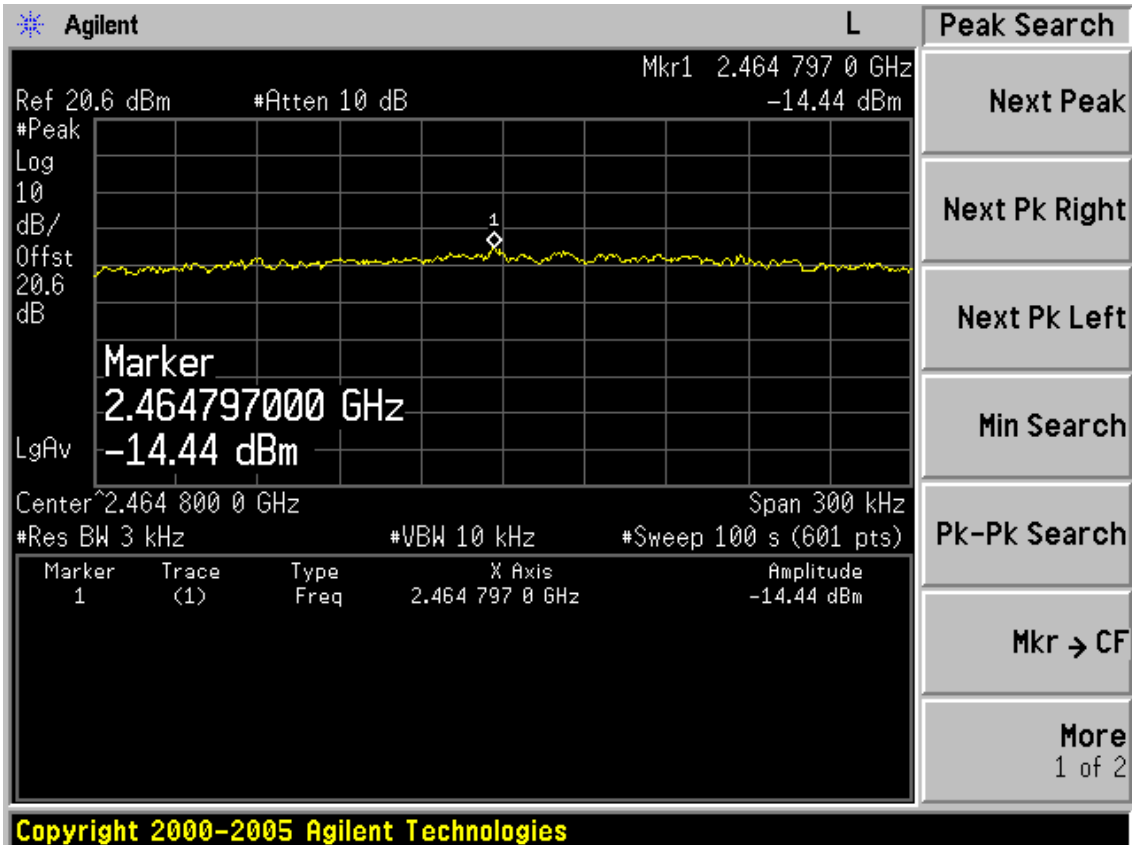
Test CH1: 2412MHz



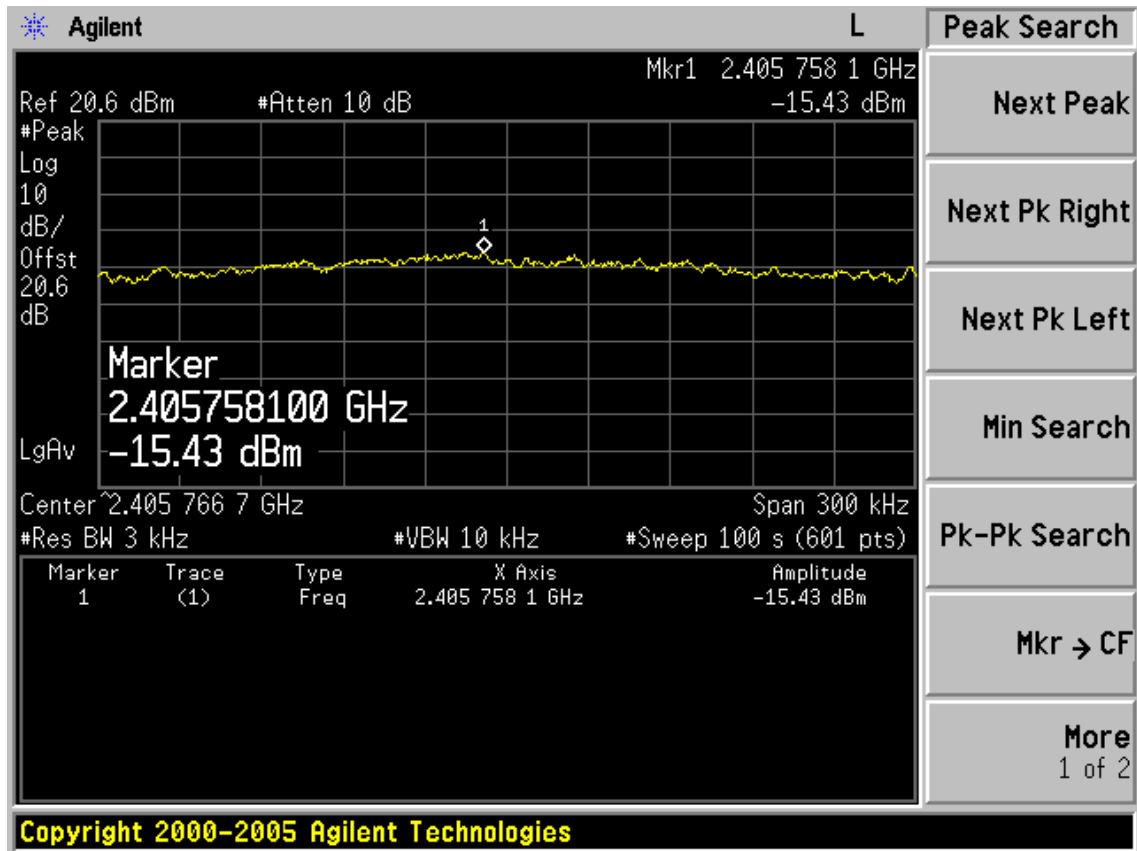
Test CH6: 2437MHz



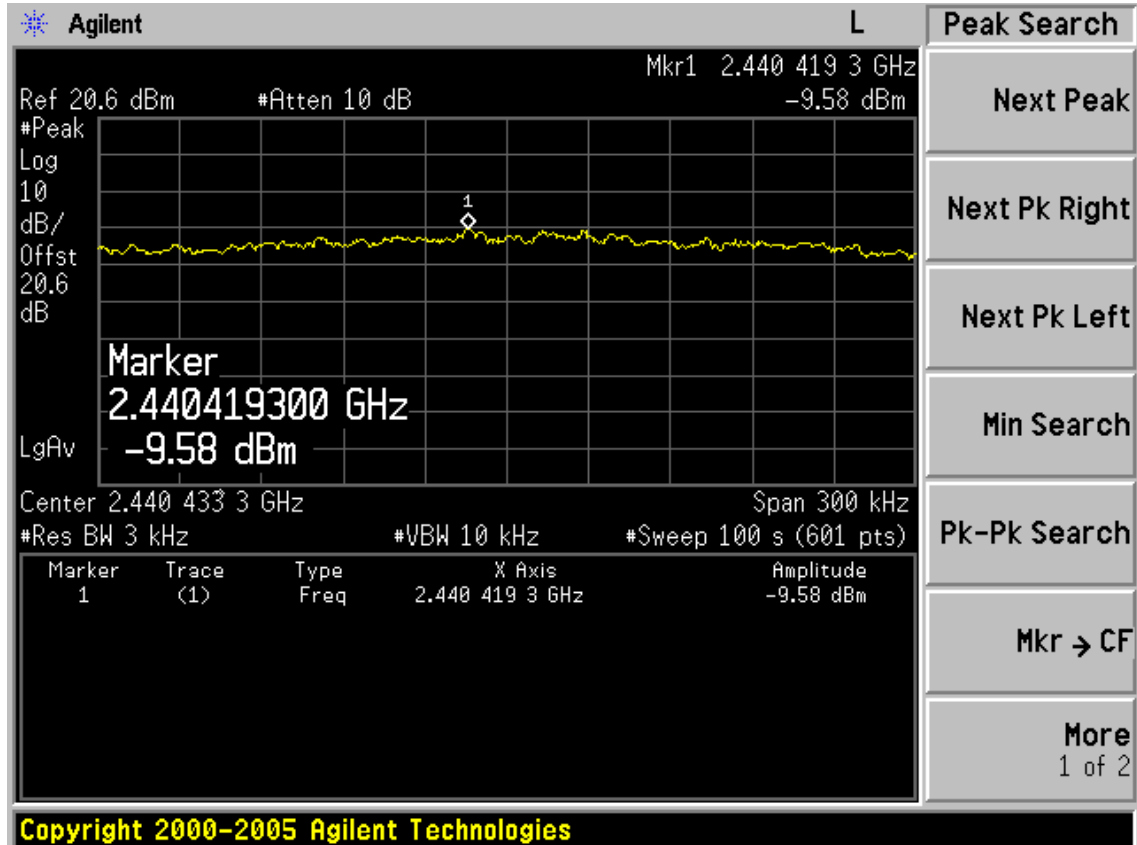
Test CH11: 2462MHz



Test Mode: IEEE 802.11n HT20 TX  
 Test CH1: 2412MHz

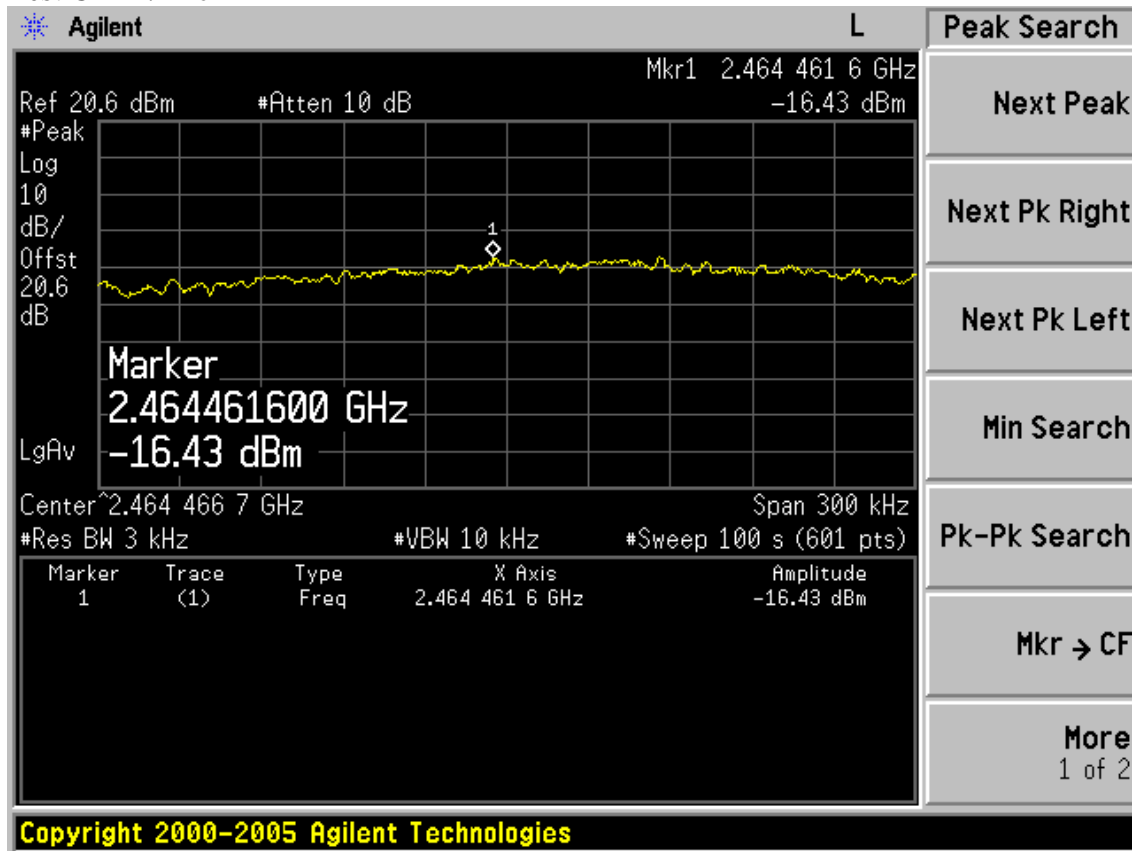


Test CH6: 2437MHz



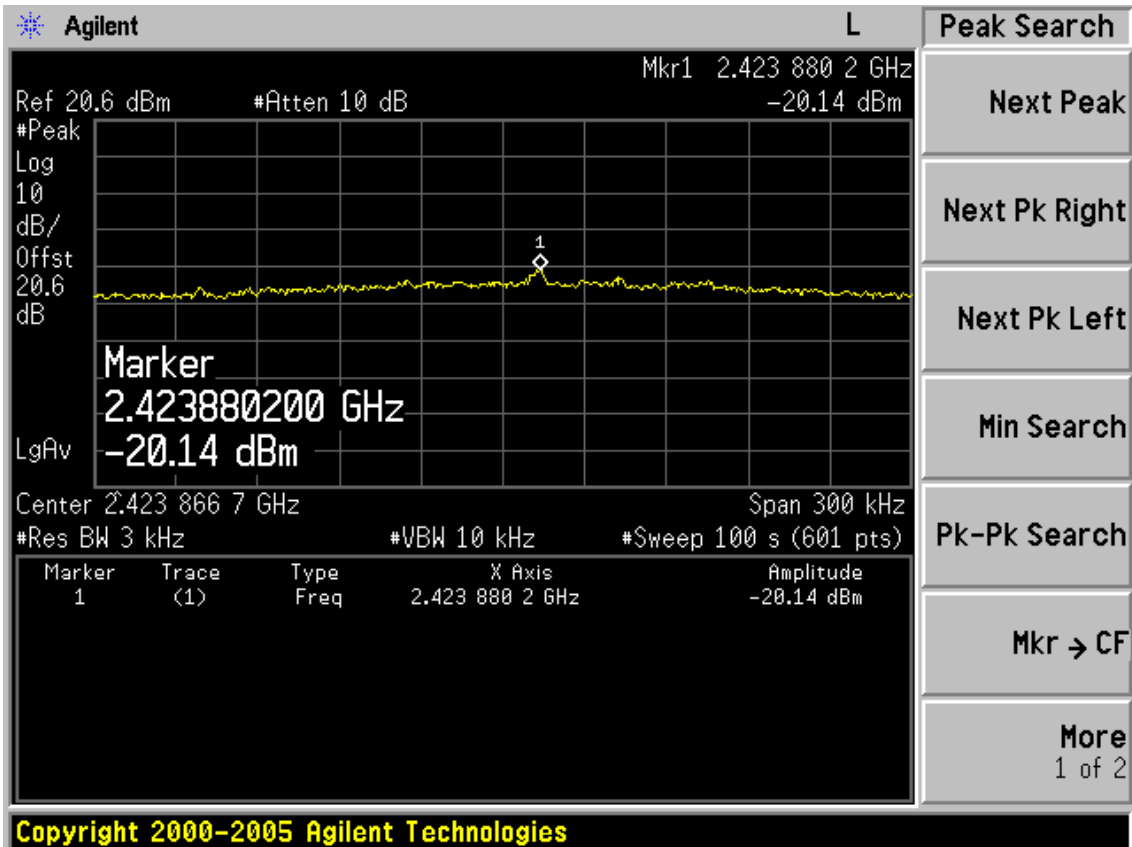


Test CH1: 2462MHz

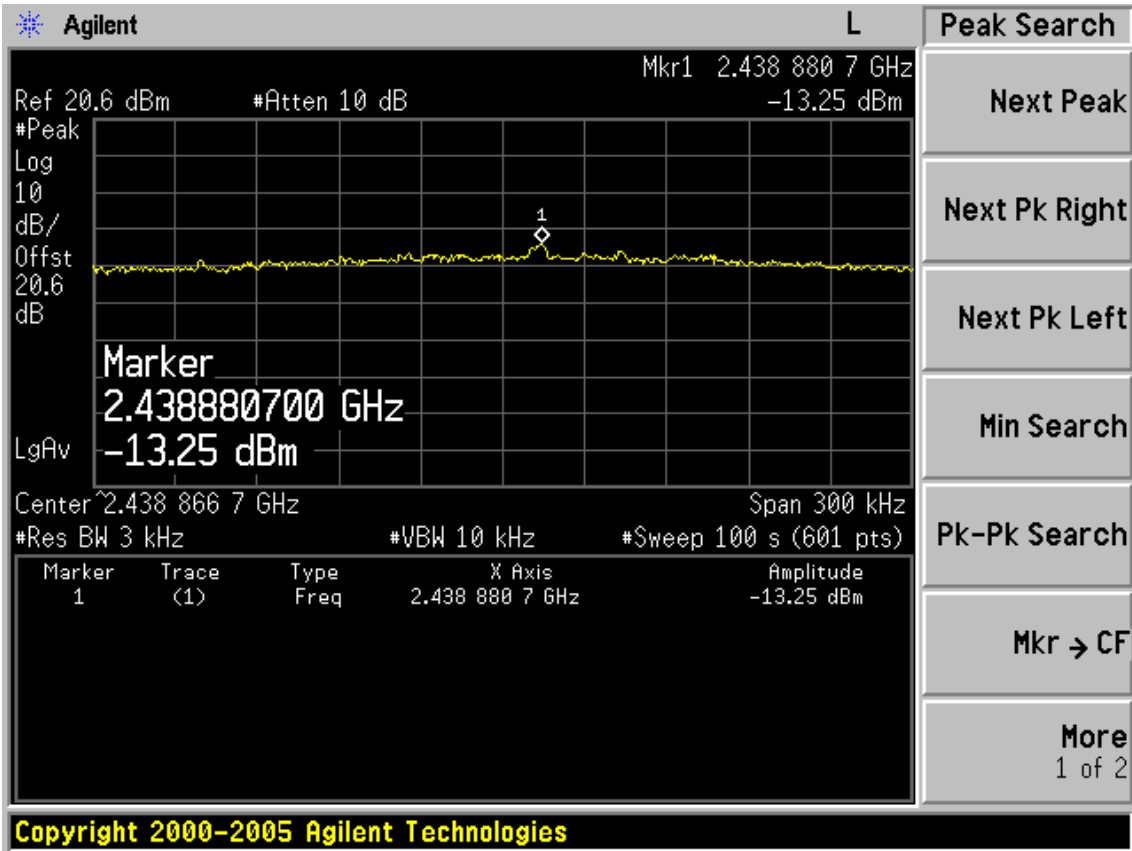


Test Mode: IEEE 802.11n HT40 TX

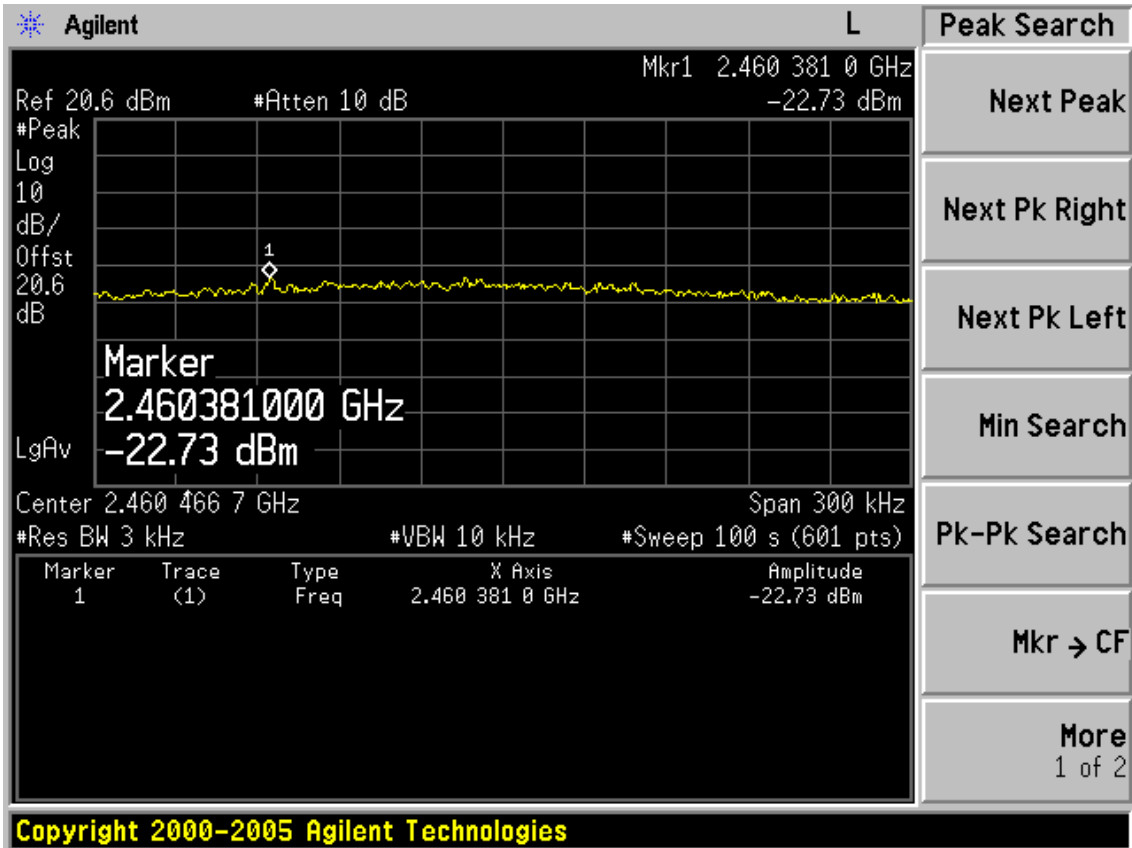
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



## **10. ANTENNA REQUIREMENT**

### **10.1. STANDARD APPLICABLE**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **10.2. ANTENNA CONNECTED CONSTRUCTION**

The antennas used for this product is dipole antenna with SMA-B connector and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 5dBi.

## 11.MPE ESTIMATION

### 11.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm <sup>2</sup> )	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	Power density (mW/ cm <sup>2</sup> )	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

### 11.2.2, Estimation Result

Mode	CH	Frequency (MHz)	PK Output power (dBm)	Output power (mW)	antenna Gain (dBi)	antenna Gain(linear)	MPE
11b	1	2412	21.30	134.90	5	3.16	0.0849
	6	2437	21.55	142.89	5	3.16	0.0899
	11	2462	21.78	150.66	5	3.16	0.0948
11g	1	2412	19.82	95.94	5	3.16	0.0604
	6	2437	22.78	189.67	5	3.16	0.1194
	11	2462	19.56	90.36	5	3.16	0.0569
11n HT20	1	2412	18.12	64.86	5	3.16	0.0408
	6	2437	22.50	177.83	5	3.16	0.1119
	11	2462	17.97	62.66	5	3.16	0.0394
11n HT40	1	2422	17.14	51.76	5	3.16	0.0326
	4	2437	20.80	120.23	5	3.16	0.0757
	7	2452	15.38	34.51	5	3.16	0.0217

Note: The estimation distance is 20cm

## 12.DEVIATION TO TEST SPECIFICATIONS

[ NONE ]