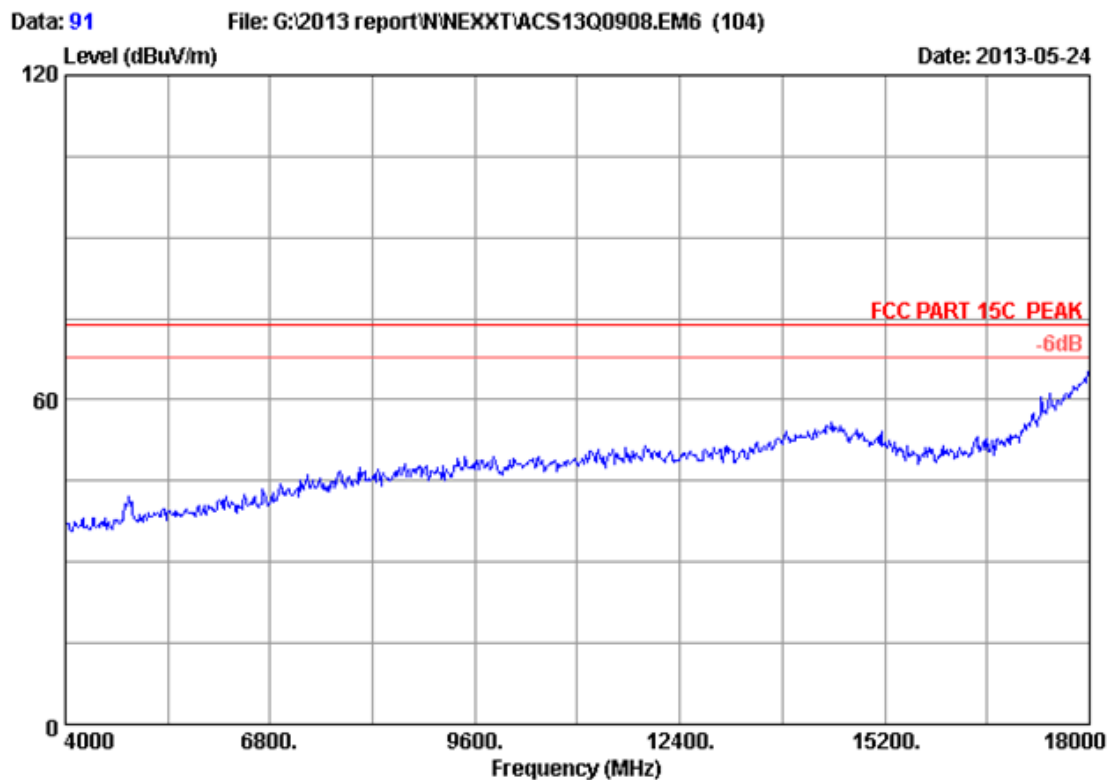


Site no. : 3m Chamber Data no. : 90  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx  
 M/N : ARNPR154U1  
 :

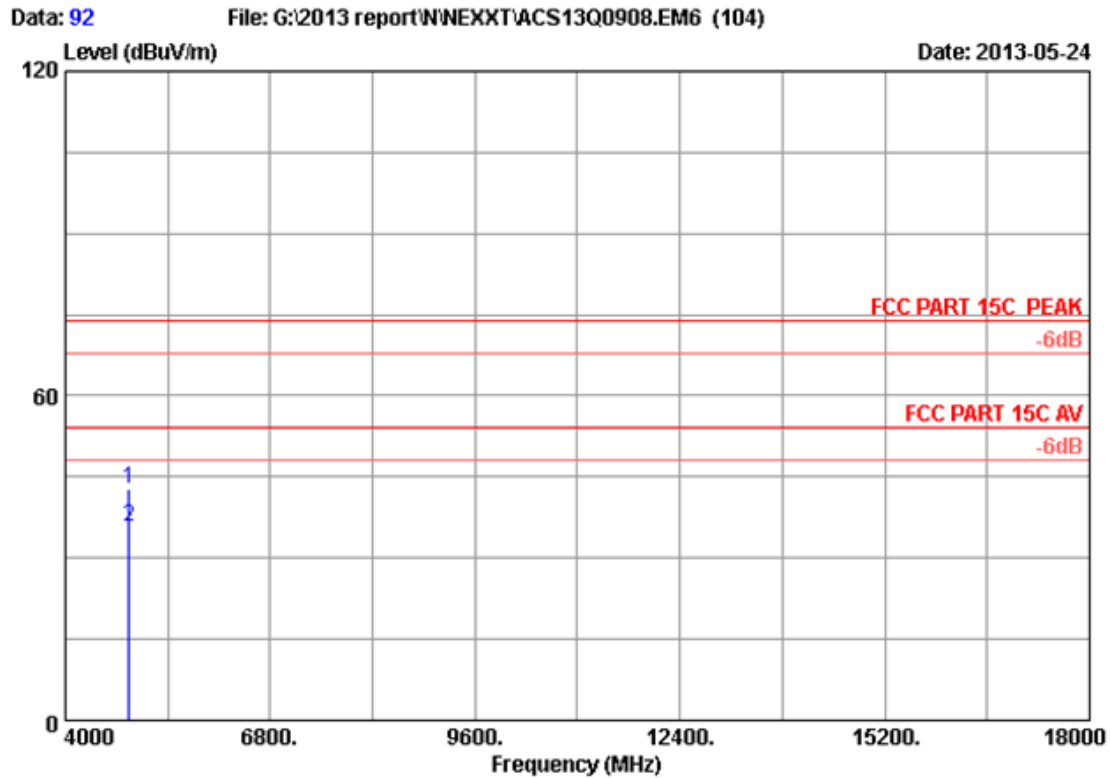
	Ant.	Cable	Amp.		Emission				
Freq.	Factor	loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1 4874.000	32.62	8.73	35.69	37.41	43.07	74.00	30.93	Peak	
2 4874.000	32.62	8.73	35.69	30.45	36.11	54.00	17.89	Average	

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.	: 3m Chamber	Data no.	: 91
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Kevin-Hu
EUT	: 3G Wireless N Nano Router		
Power supply	: DC 5V From Adapter Input AC 120V/60Hz		
Test mode	: IEEE802.11nHT40 CH 4 2437MHz Tx		
M/N	: ARNPR154U1		
	:		

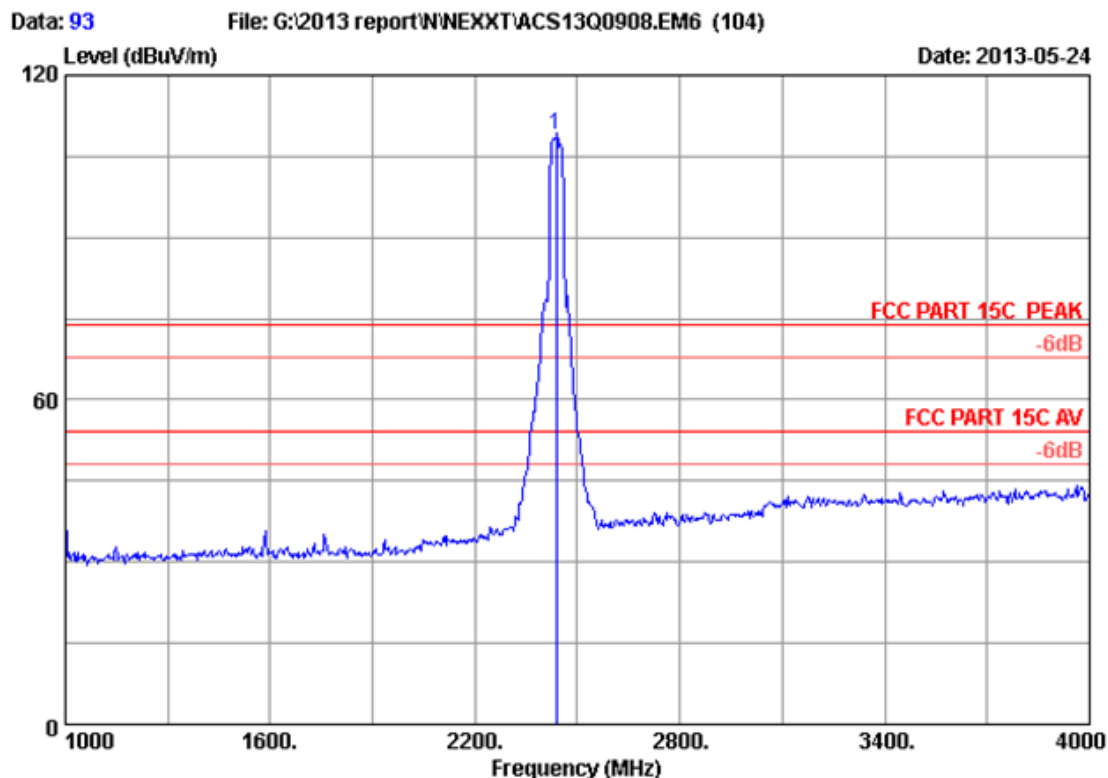


Site no. : 3m Chamber Data no. : 92  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx  
 M/N : ARNPR154U1  
 :

	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	32.62	8.73	35.69	37.13	42.79	74.00	31.21	Peak
2	4874.000	32.62	8.73	35.69	30.14	35.80	54.00	18.20	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.

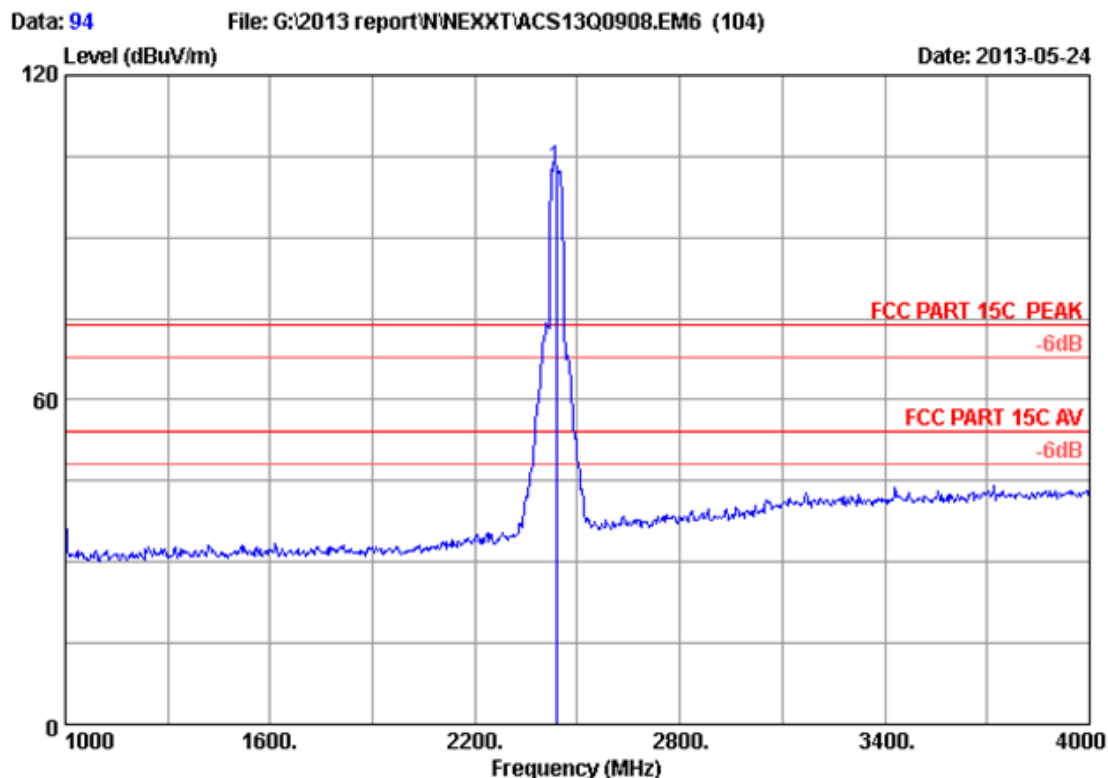


Site no. : 3m Chamber Data no. : 93  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx  
 M/N : ARNPR154U1  
 :

	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 2437.000	27.00	6.08	35.92	111.90	109.06	74.00	-35.06	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.

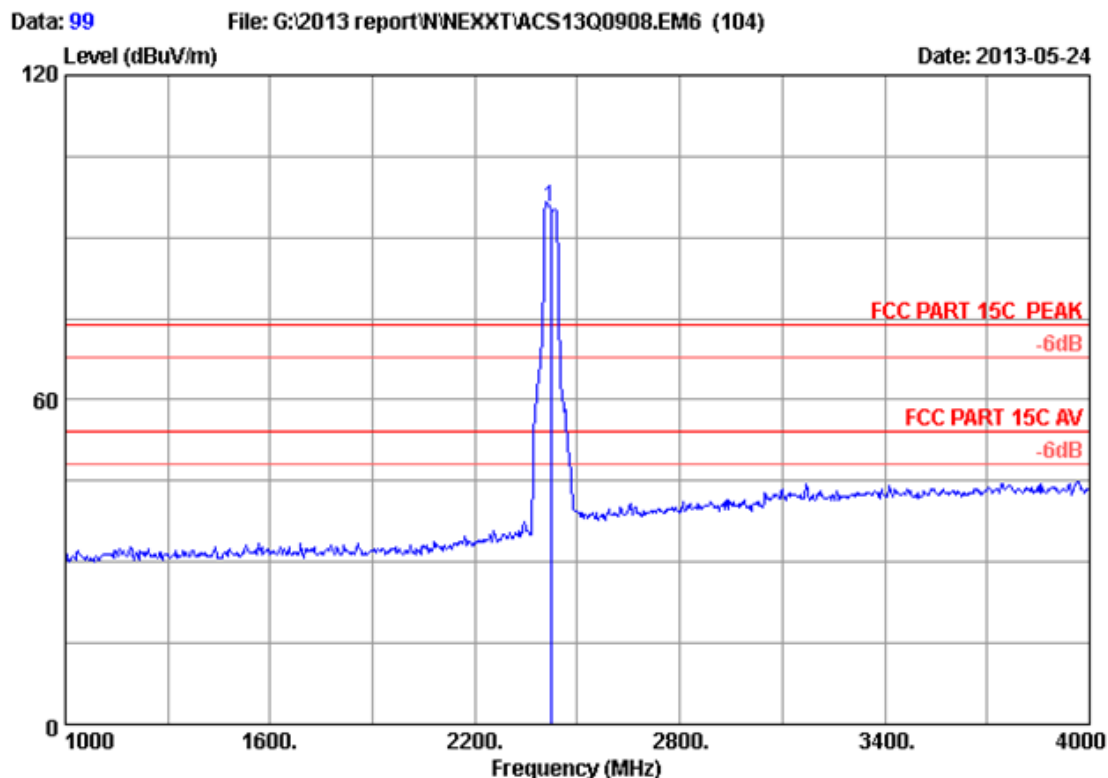


Site no. : 3m Chamber Data no. : 94  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 4 2437MHz Tx  
 M/N : ARNPR154U1  
 :

	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 2437.000	27.00	6.08	35.92	105.91	103.07	74.00	-29.07	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.

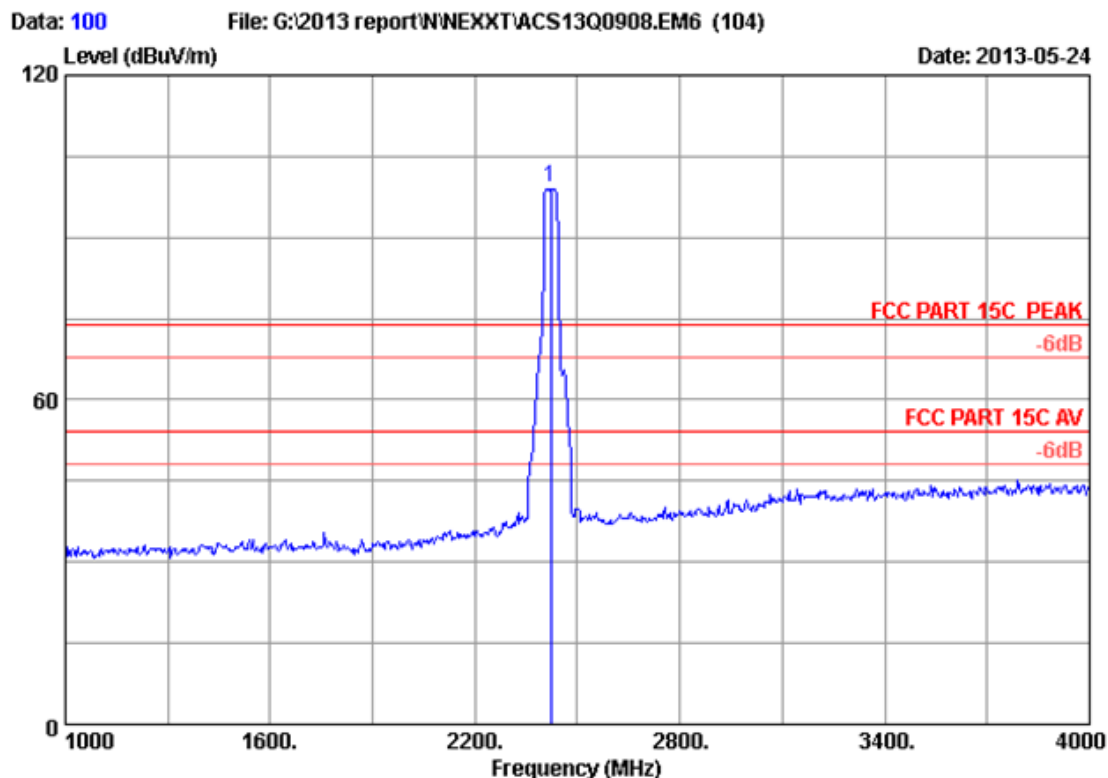


Site no. : 3m Chamber Data no. : 99  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx  
 M/N : ARNPR154U1  
 :

	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 2422.000	26.90	6.05	35.92	98.59	95.62	74.00	-21.62	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.

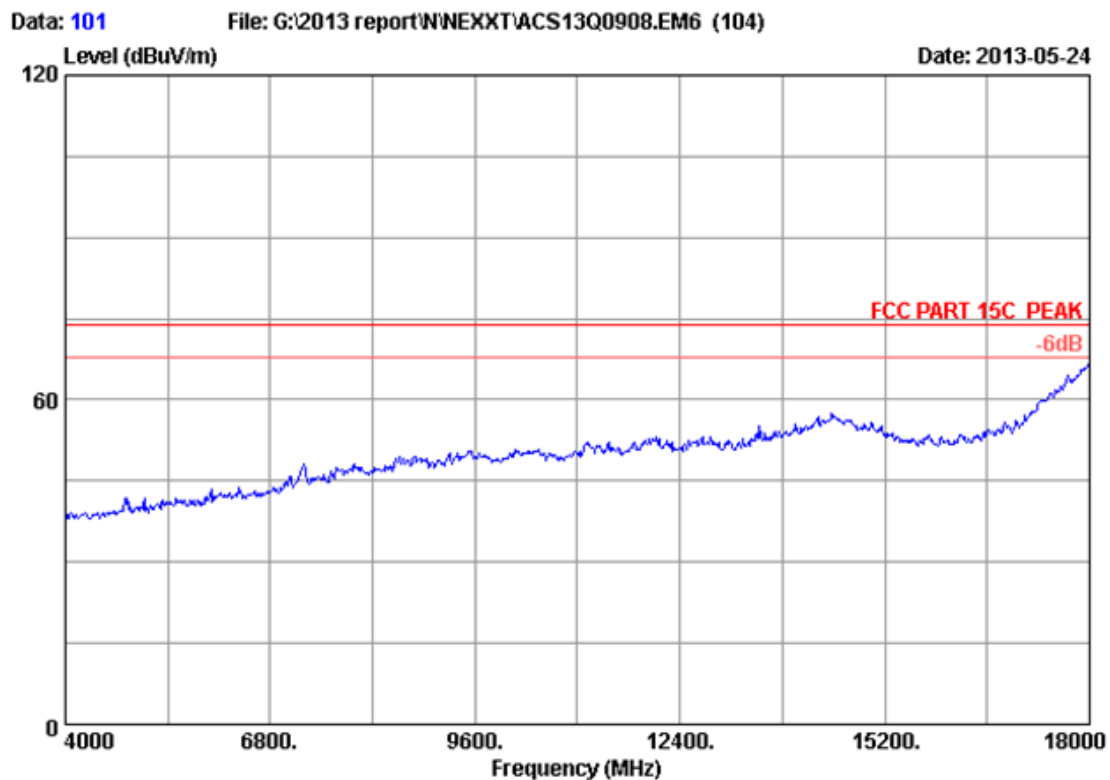


Site no. : 3m Chamber Data no. : 100  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx  
 M/N : ARNPR154U1  
 :

	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 2422.000	26.90	6.05	35.92	102.12	99.15	74.00	-25.15	Peak	

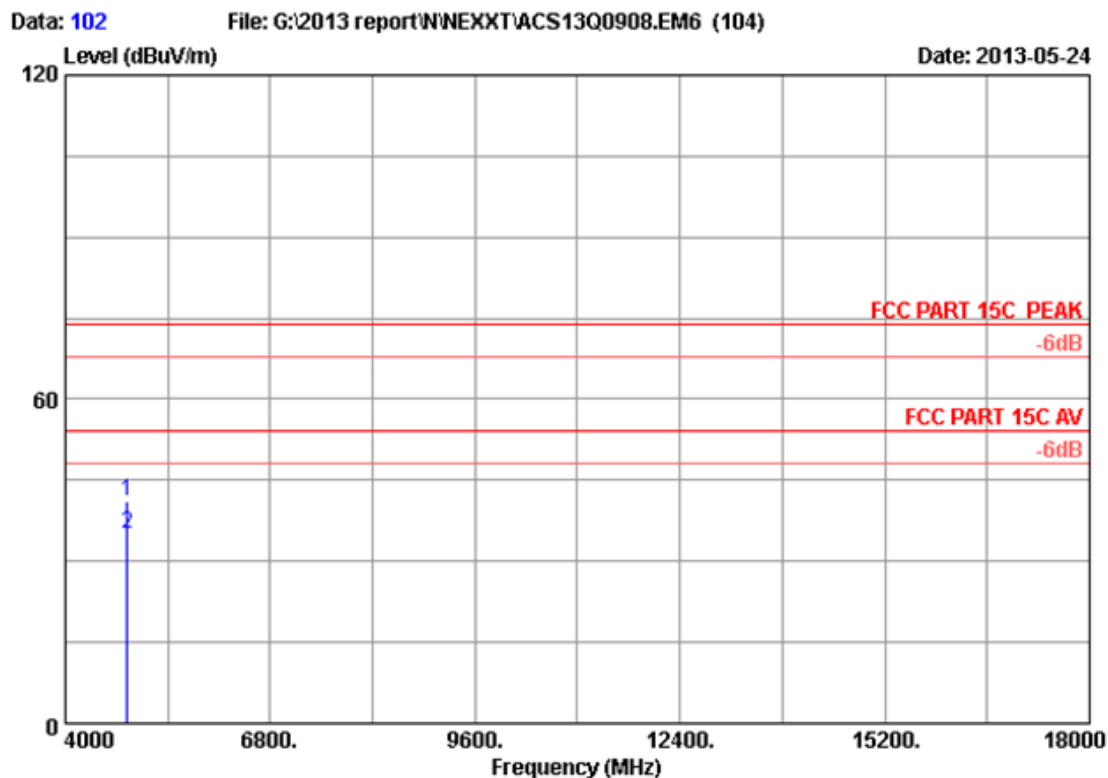
Remarks:

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.	: 3m Chamber	Data no.	: 101
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Kevin-Hu
EUT	: 3G Wireless N Nano Router		
Power supply	: DC 5V From Adapter Input AC 120V/60Hz		
Test mode	: IEEE802.11nHT40 CH 1 2422MHz Tx		
M/N	: ARNPR154U1		
	:		





Site no. : 3m Chamber Data no. : 102  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx  
 M/N : ARNPR154U1  
 :

	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	4844.000	32.56	8.70	35.70	35.56	41.12	74.00	32.88	Peak
2	4844.000	32.56	8.70	35.70	29.40	34.96	54.00	19.04	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.

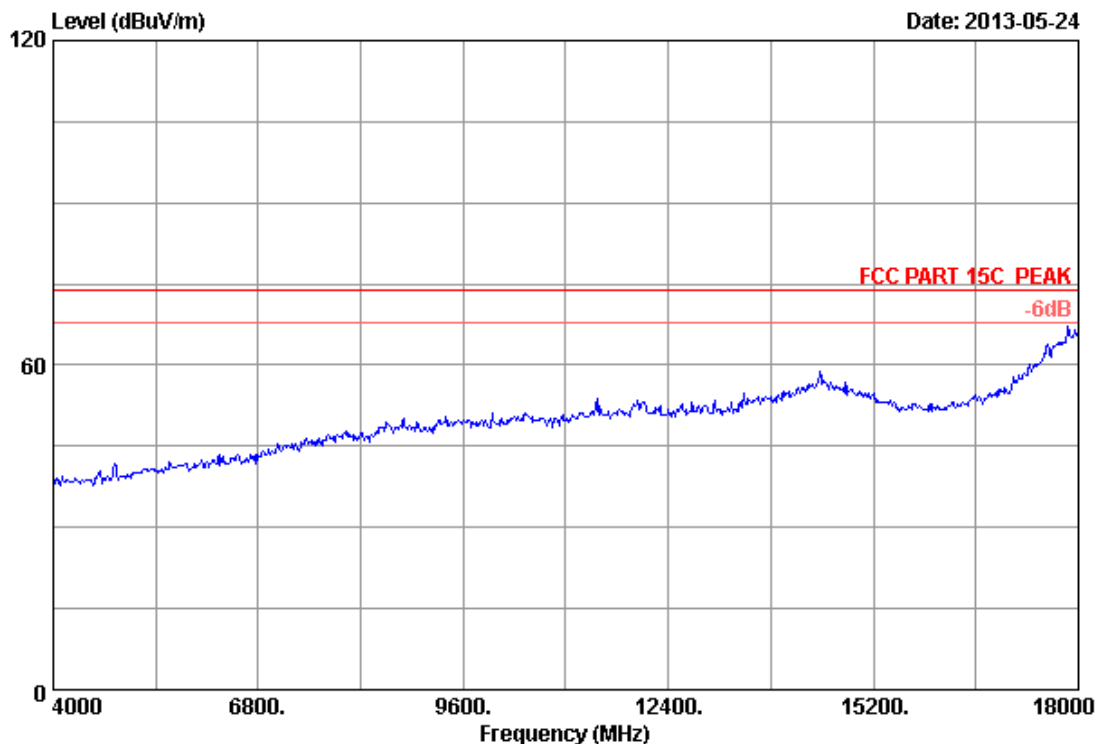


No.6 Ke Feng Road,Block 52,  
ShenZhen Science & Industry Park  
Noutou, ShenZhen, GuangDong, China  
Tel:+86-755-26639495-7  
Fax:+86-755-26632877  
Postcode:518057

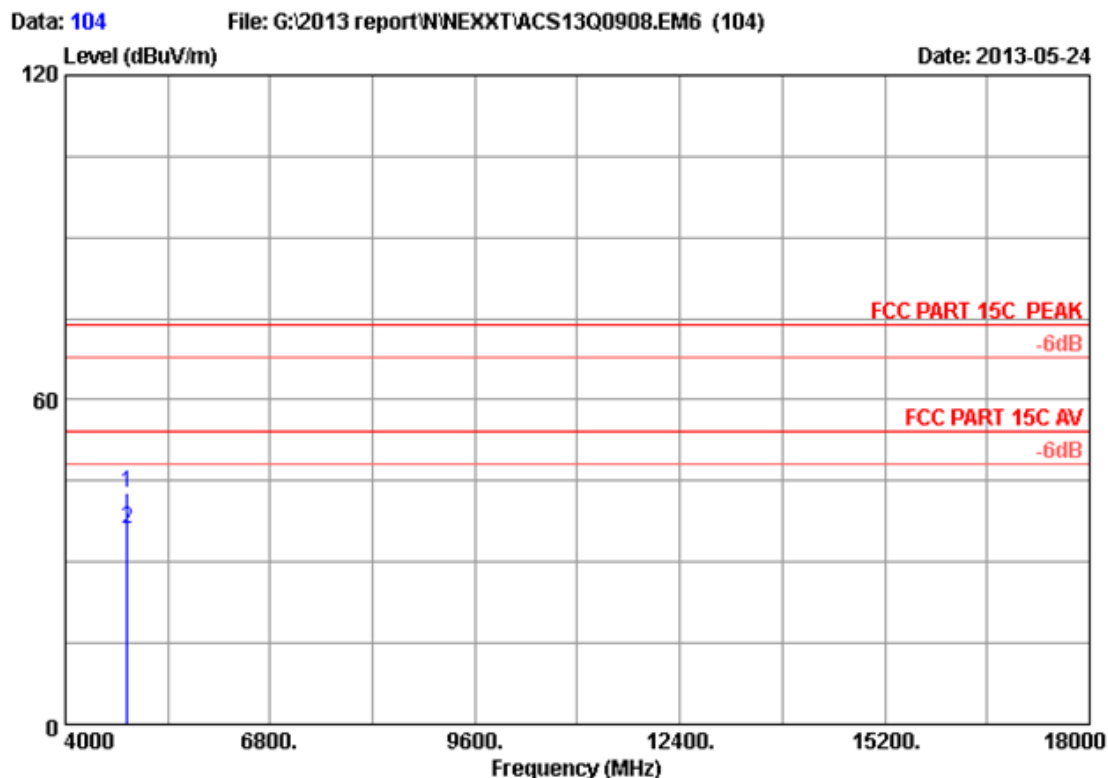
Data: 103

File: G:\2013 report\W\NEXXT\ACS13Q0908.EM6 (104)

Date: 2013-05-24



Site no.	: 3m Chamber	Data no.	: 103
Dis. / Ant.	: 3m 2012 3115 (4580)	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23°C/54%	Engineer	: Kevin-Hu
EUT	: 3G Wireless N Nano Router		
Power supply	: DC 5V From Adapter Input AC 120V/60Hz		
Test mode	: IEEE802.11nHT40 CH 1 2422MHz Tx		
M/N	: ARNPR154U1		
	:		



Site no. : 3m Chamber Data no. : 104  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx  
 M/N : ARNPR154U1  
 :

	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	4844.000	32.56	8.70	35.70	37.19	42.75	74.00	31.25	Peak
2	4844.000	32.56	8.70	35.70	30.64	36.20	54.00	17.80	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.08,13	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,13	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	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

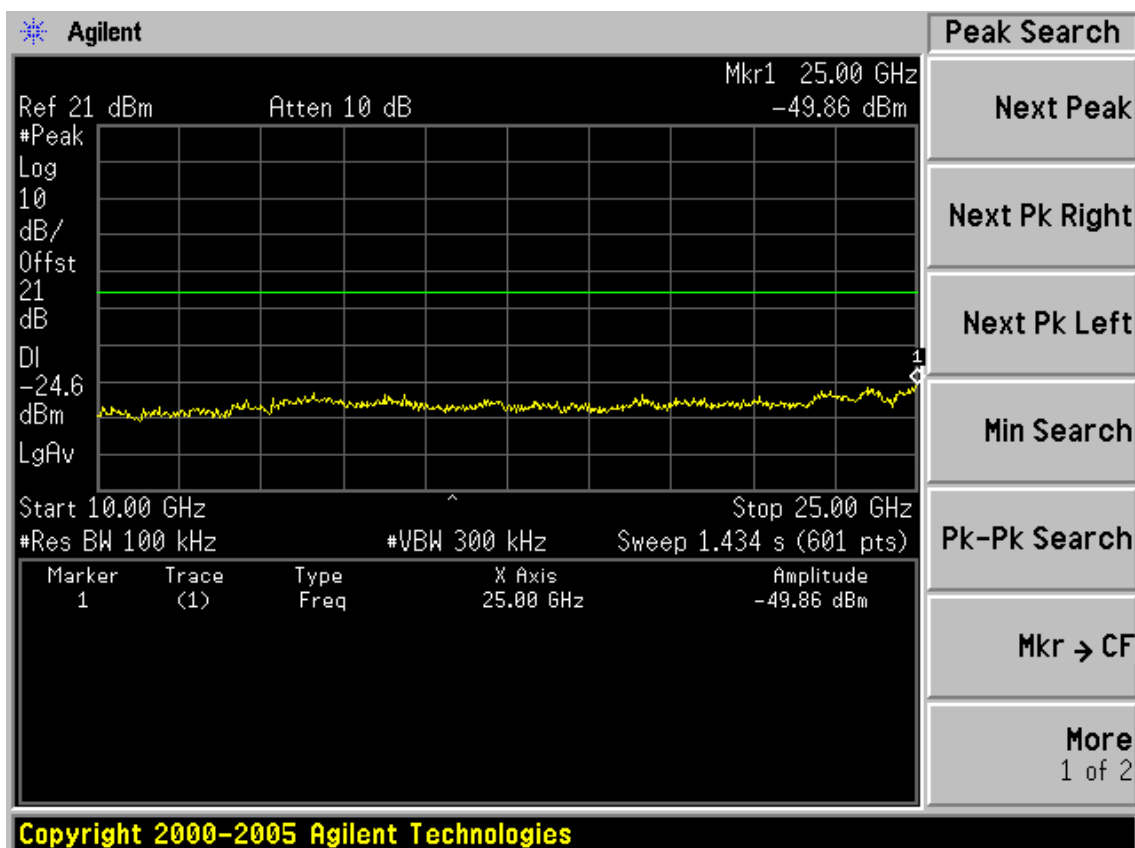
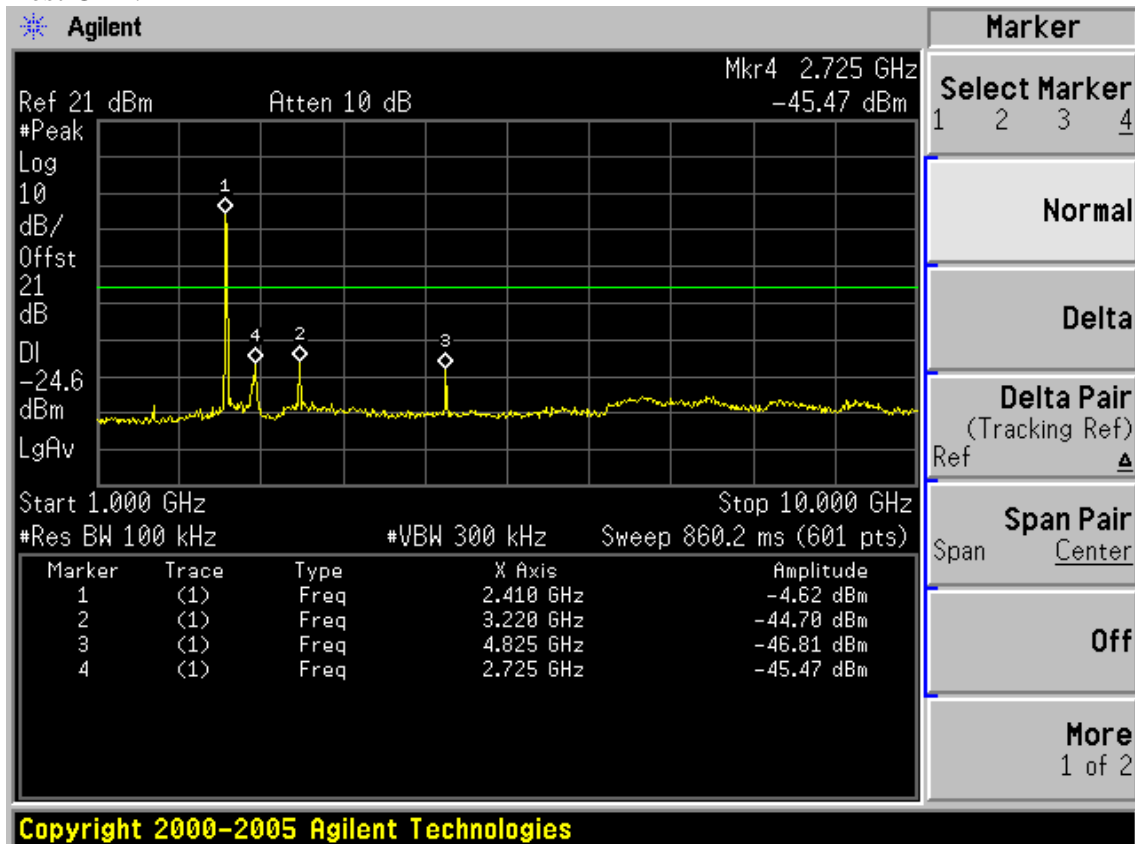
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.

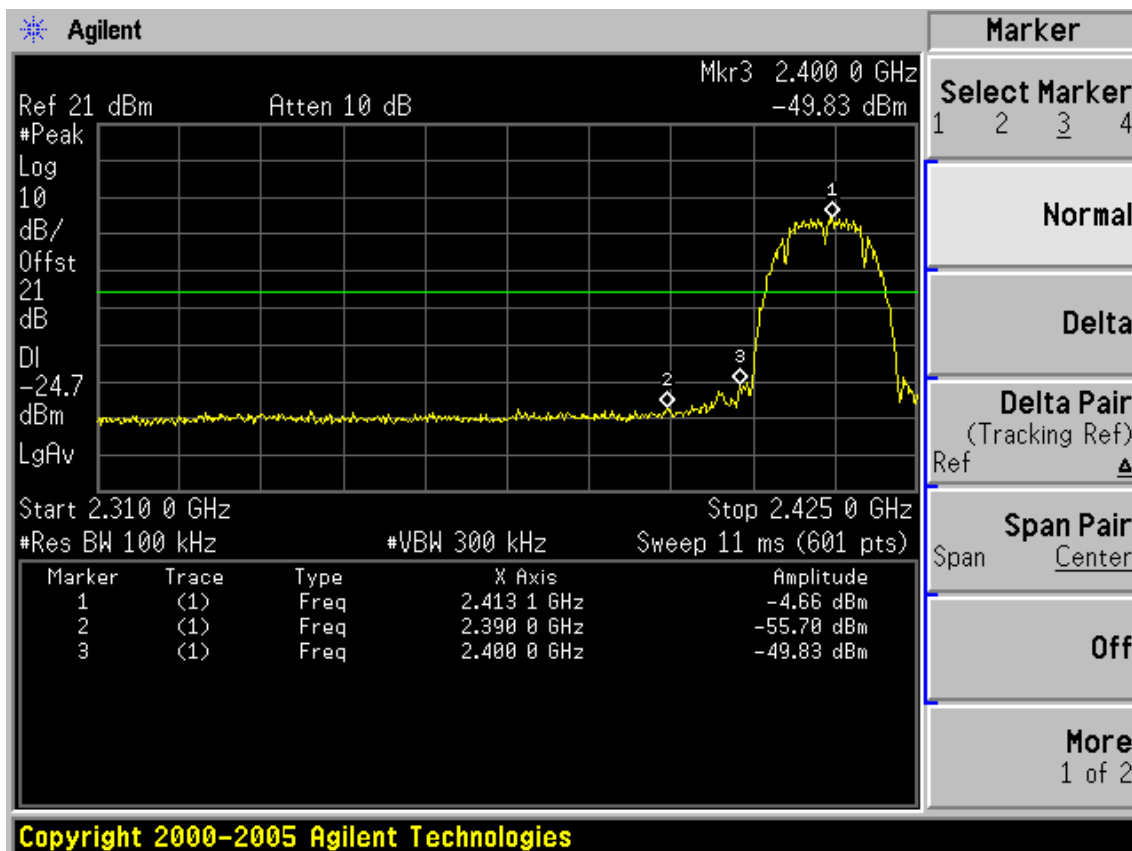
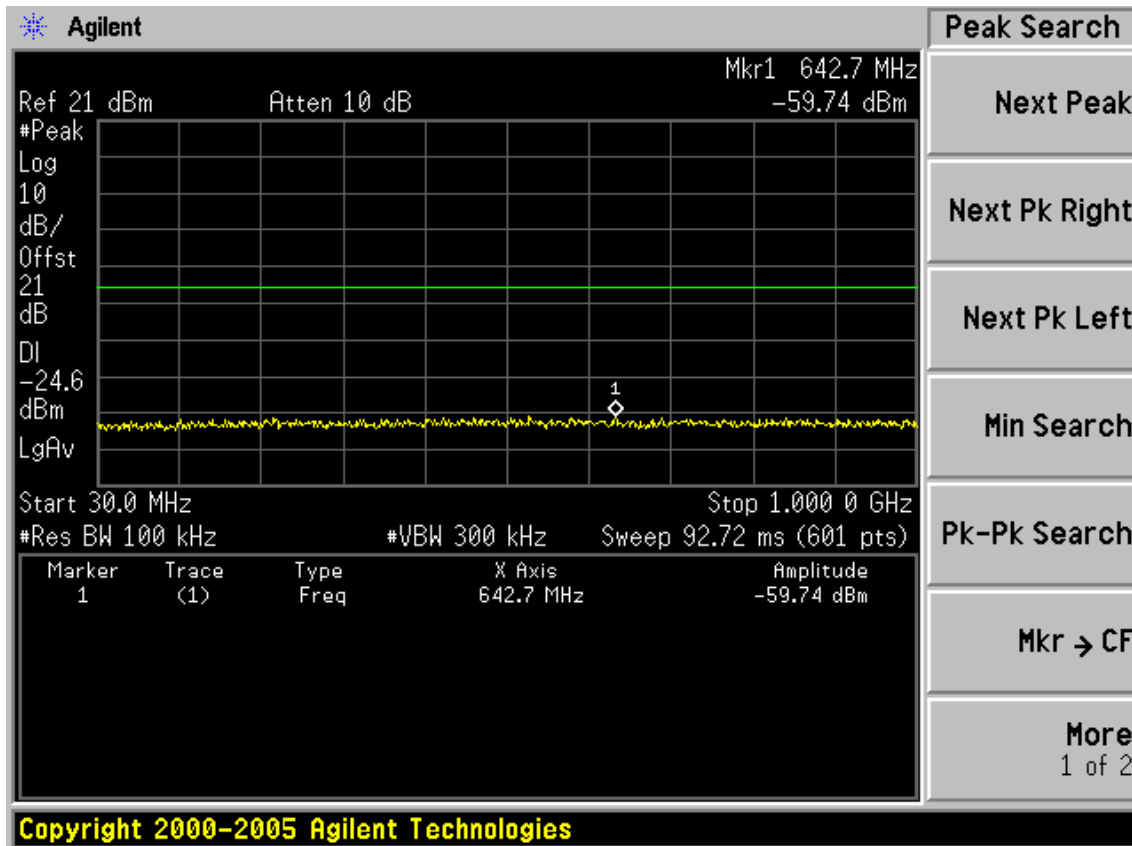
### 5.4.Test result

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

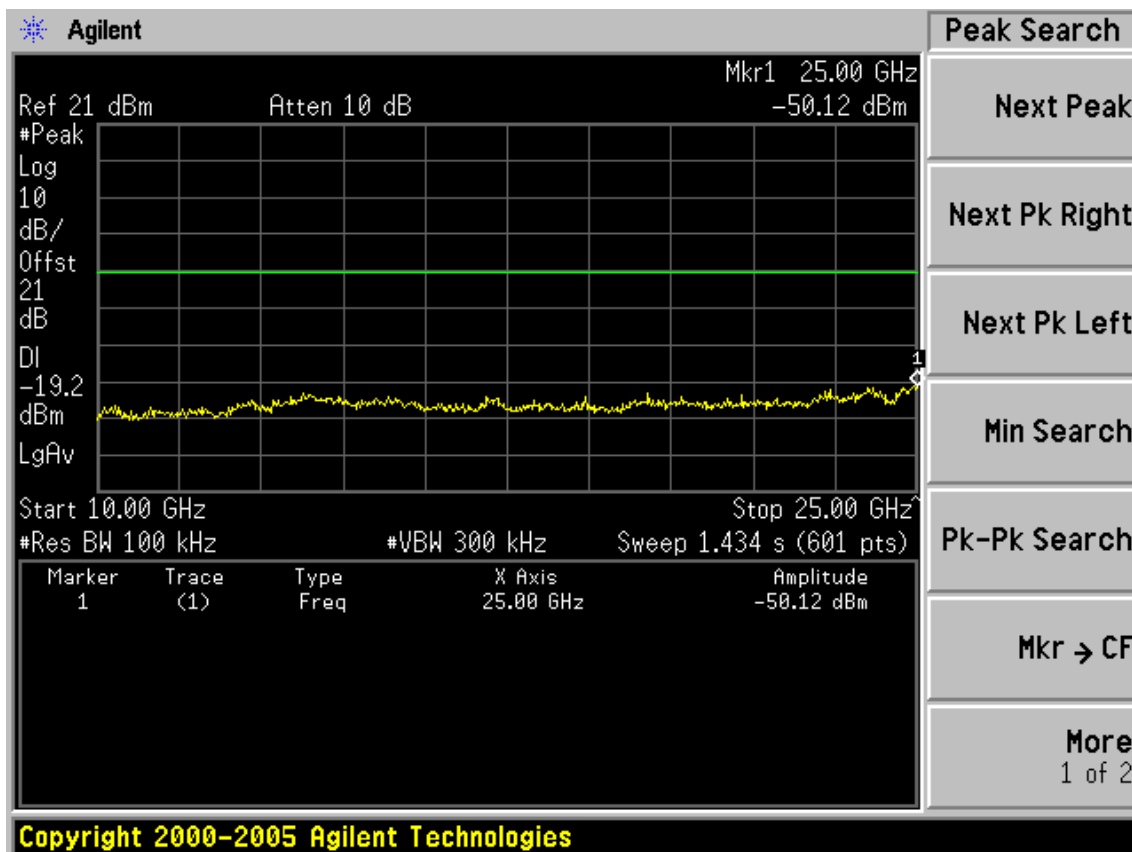
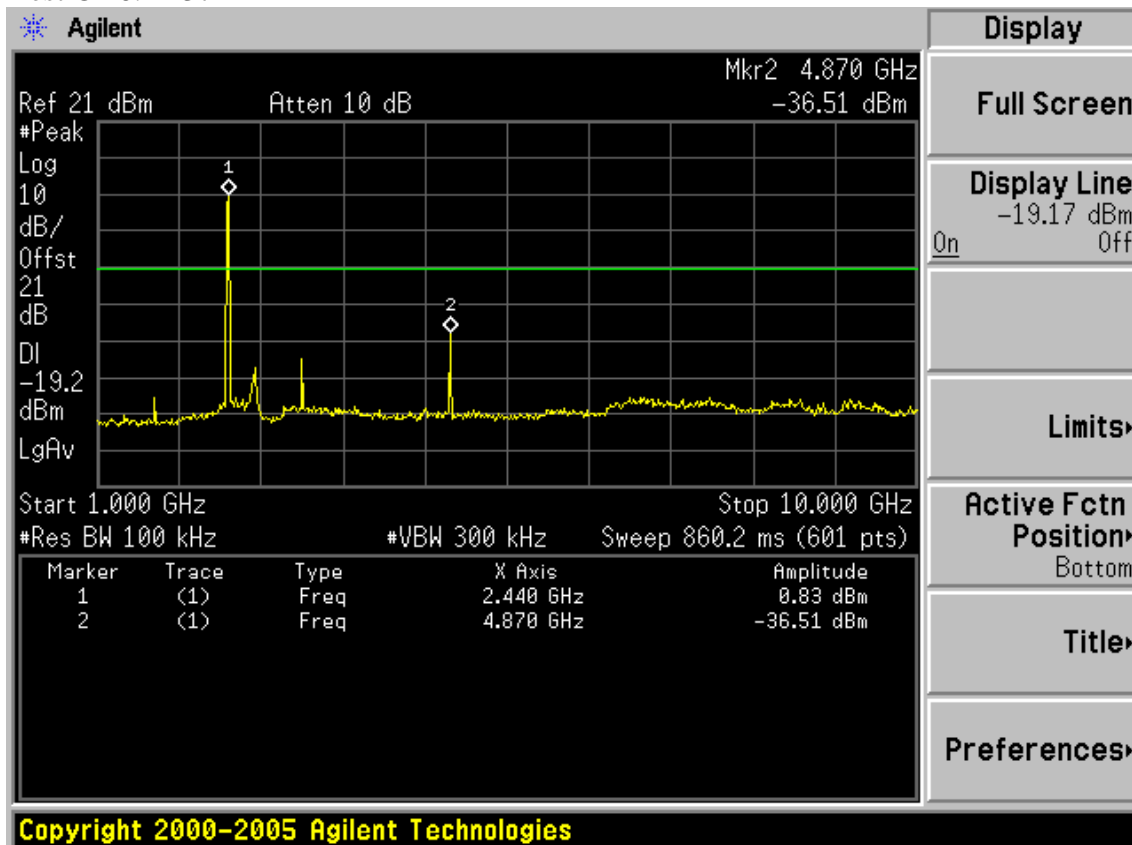
Test Mode: IEEE 802.11b TX

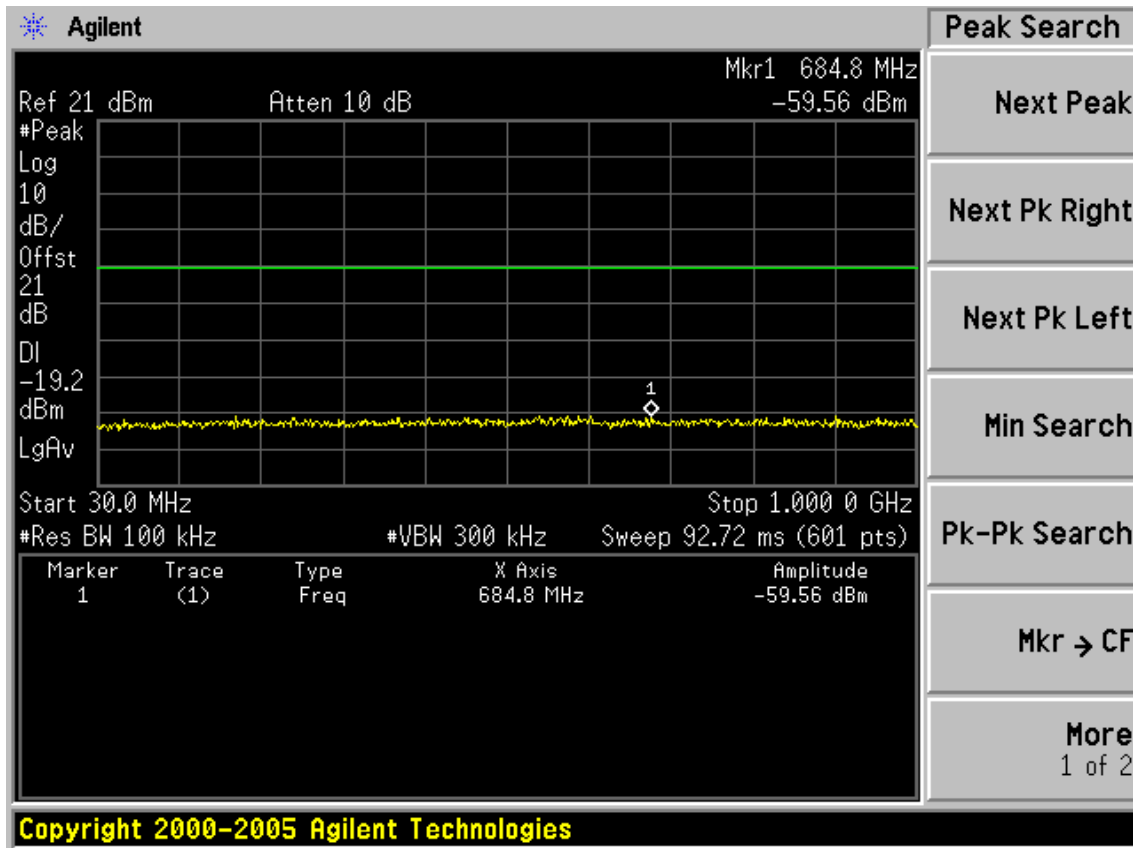
Test CH1: 2412MHz



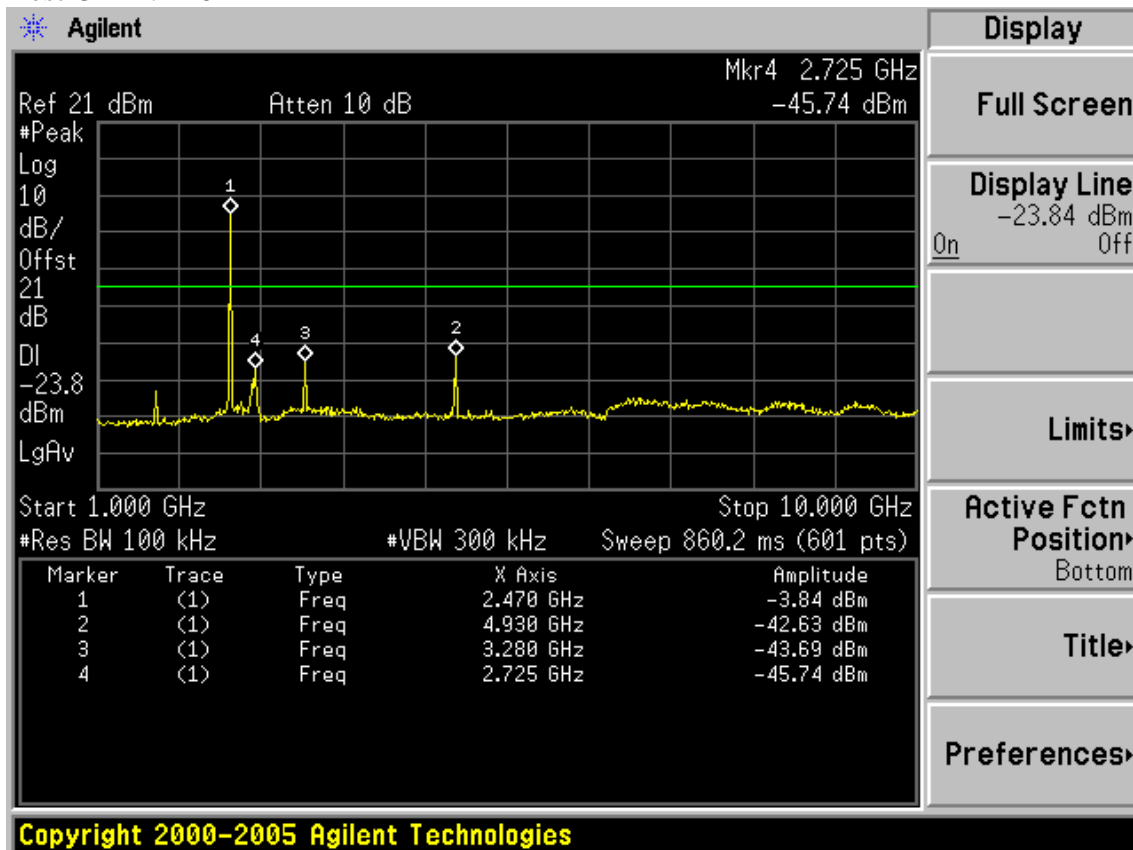


Test CH6: 2437MHz

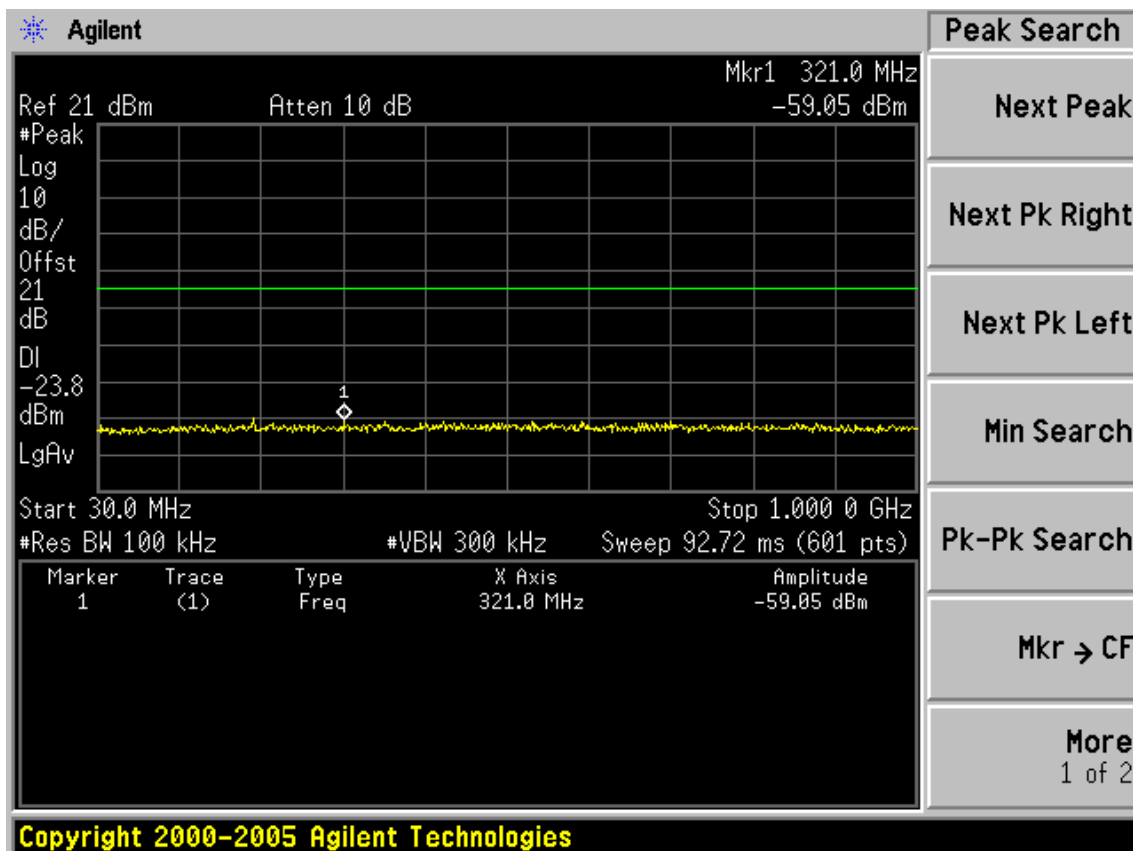
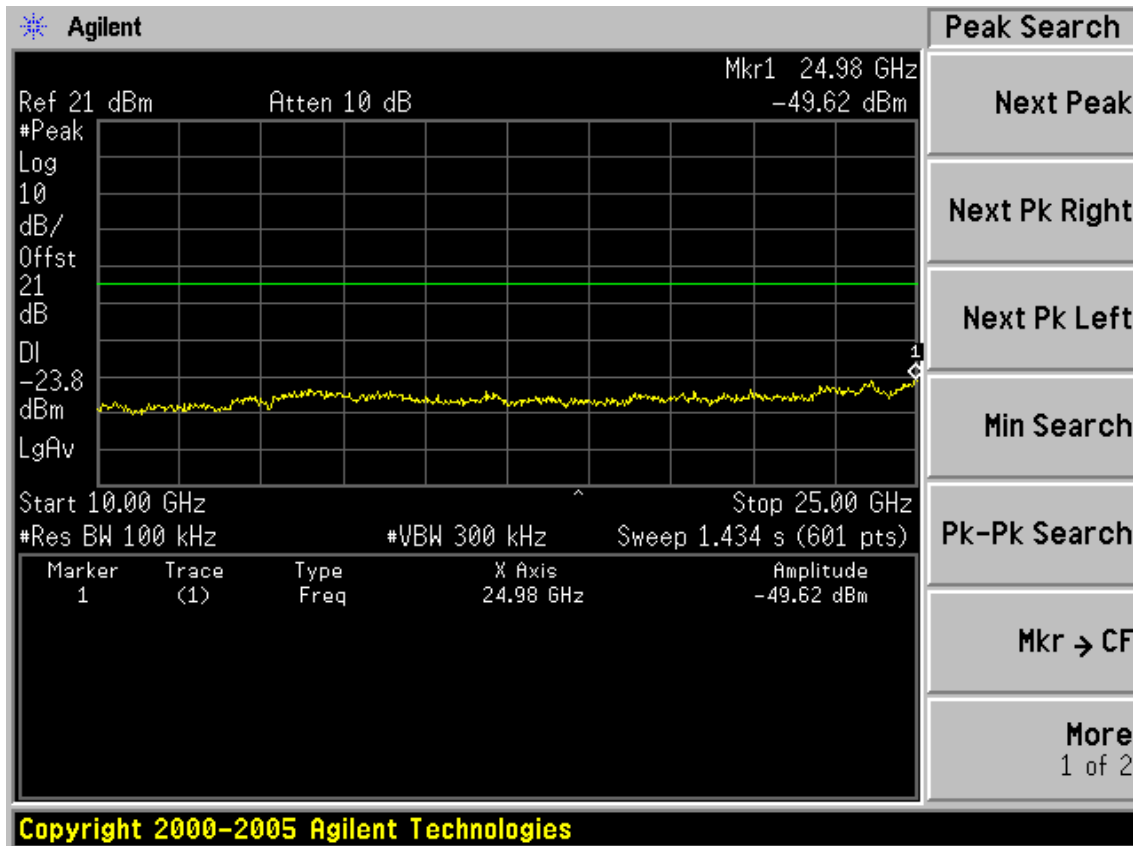


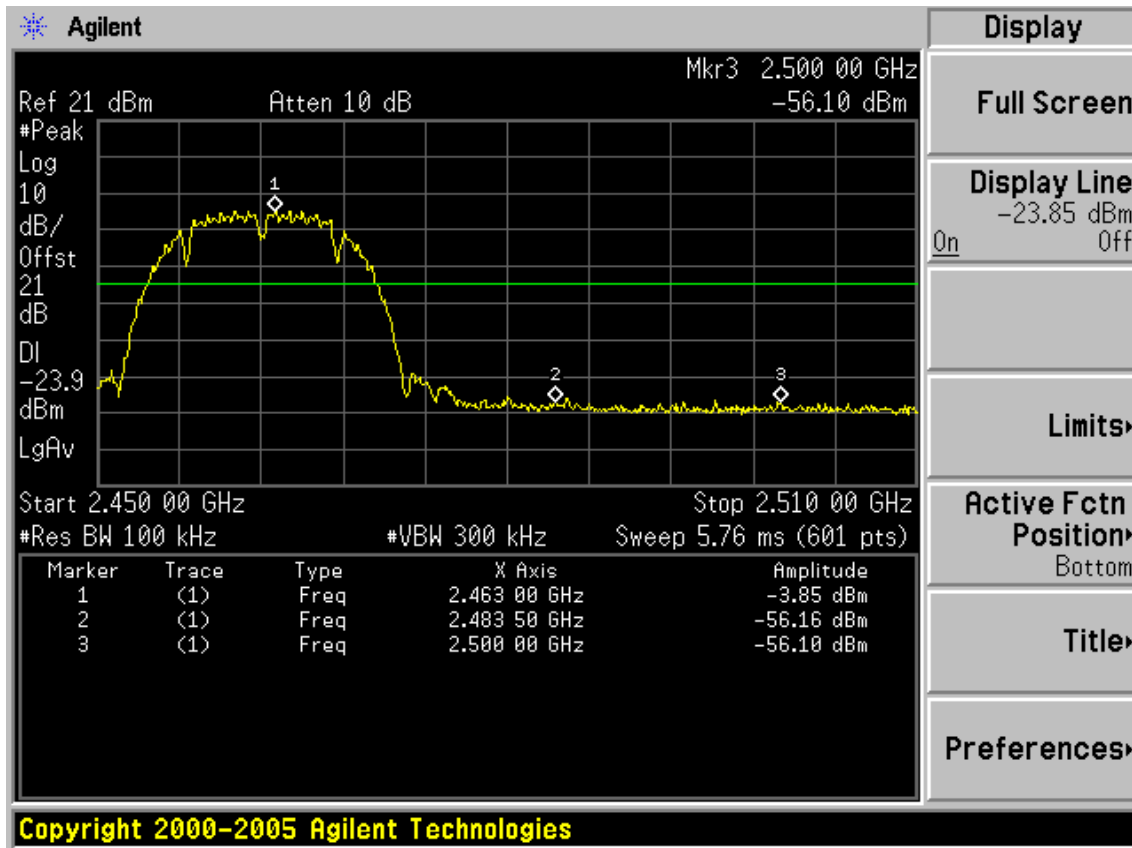


Test CH11: 2462MHz



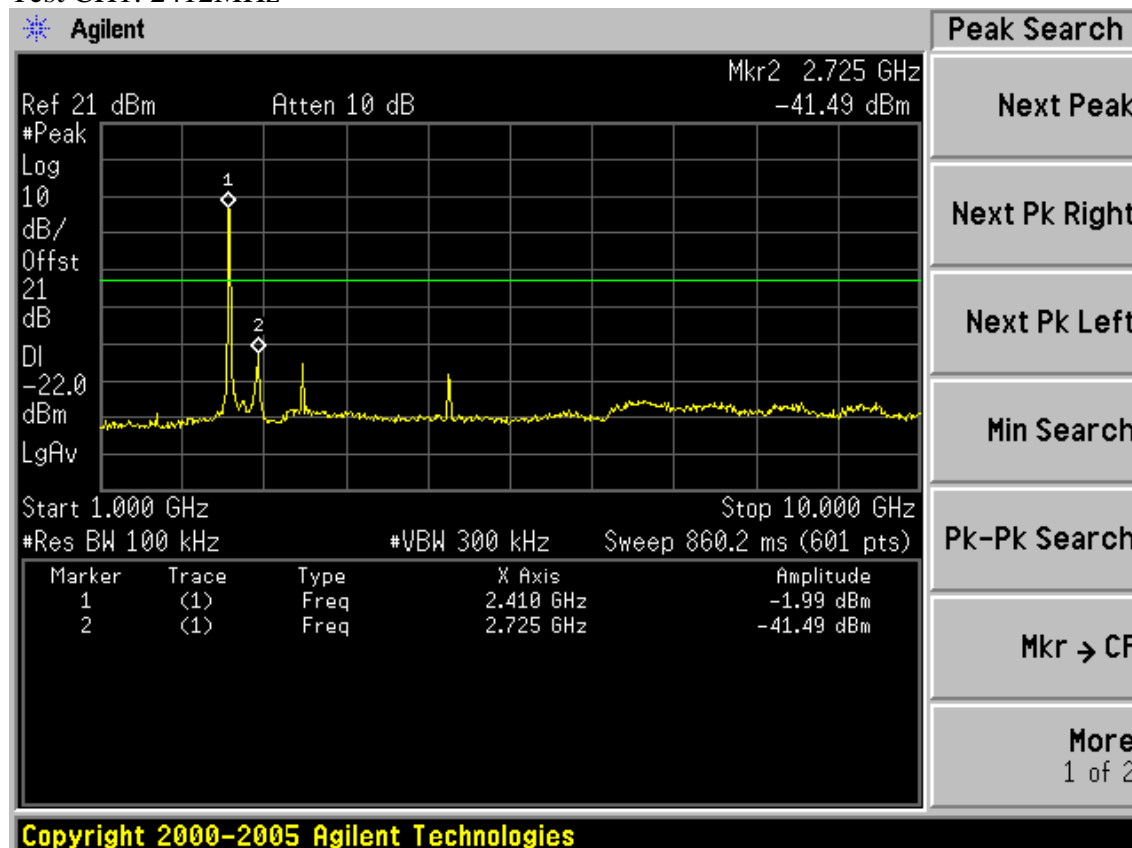


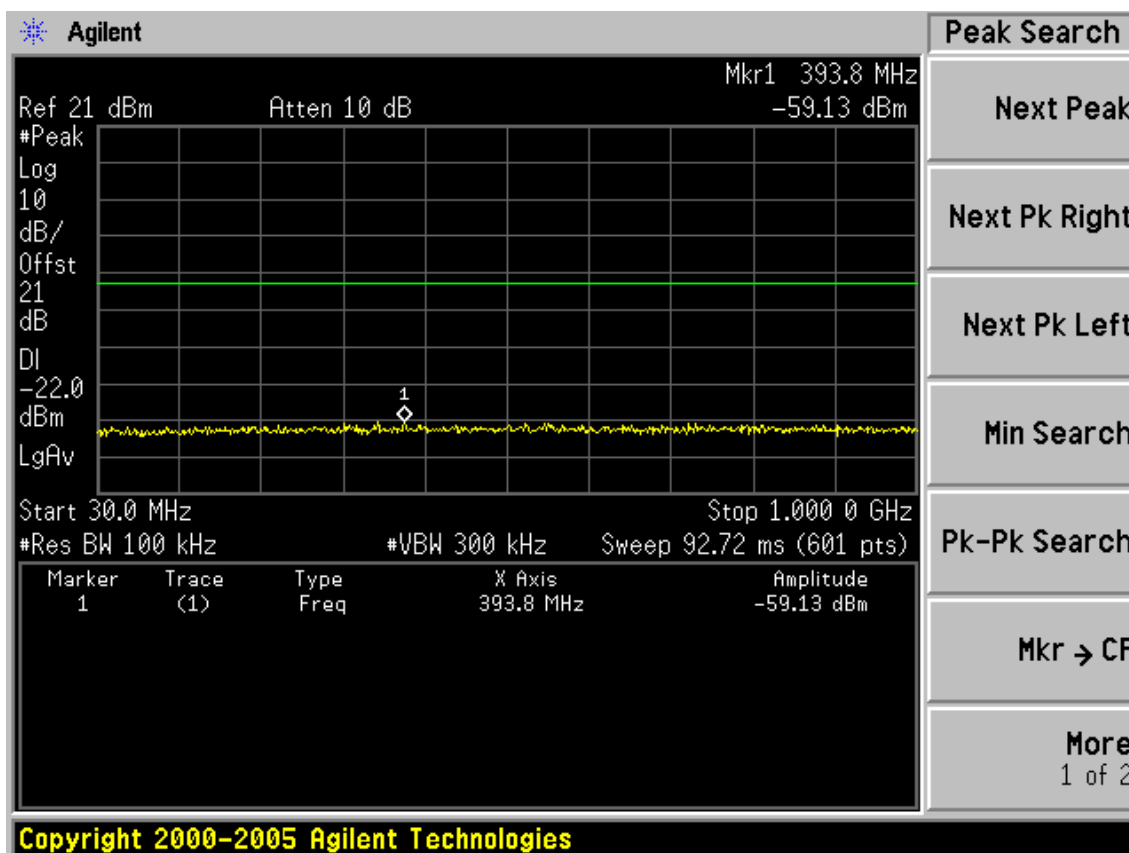
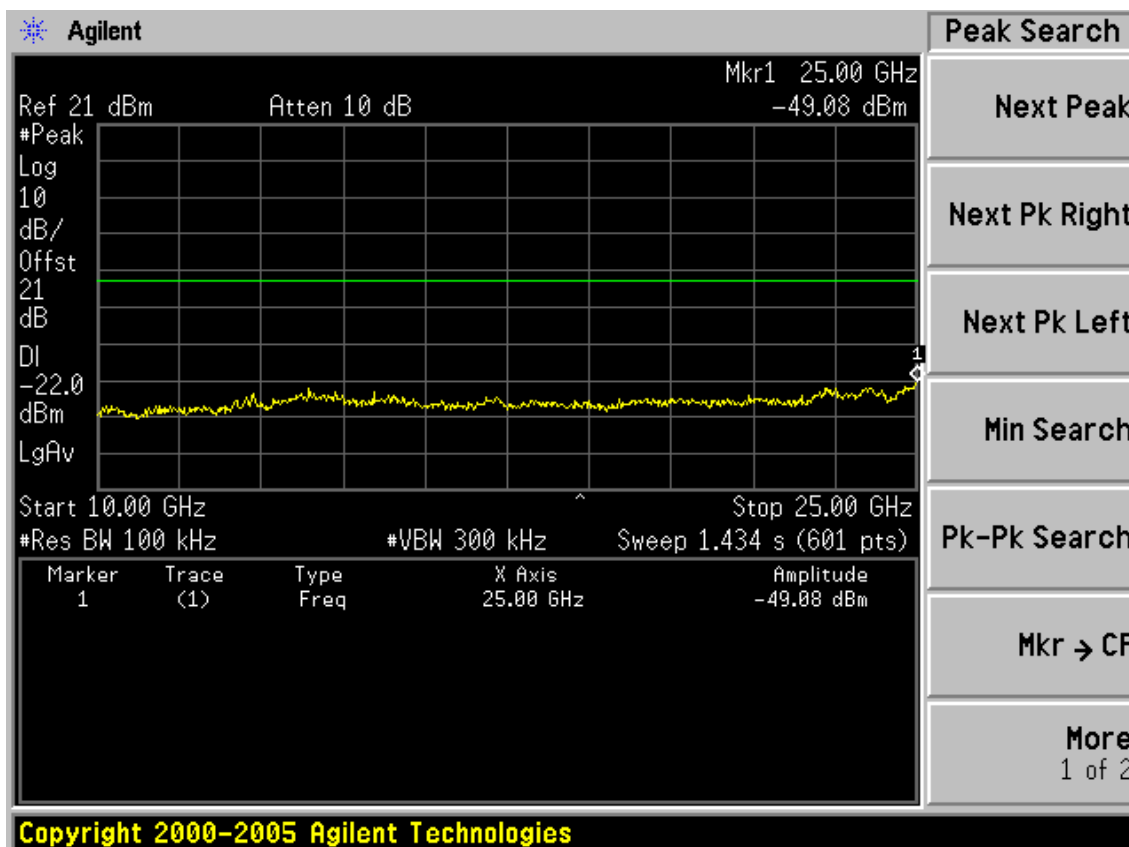


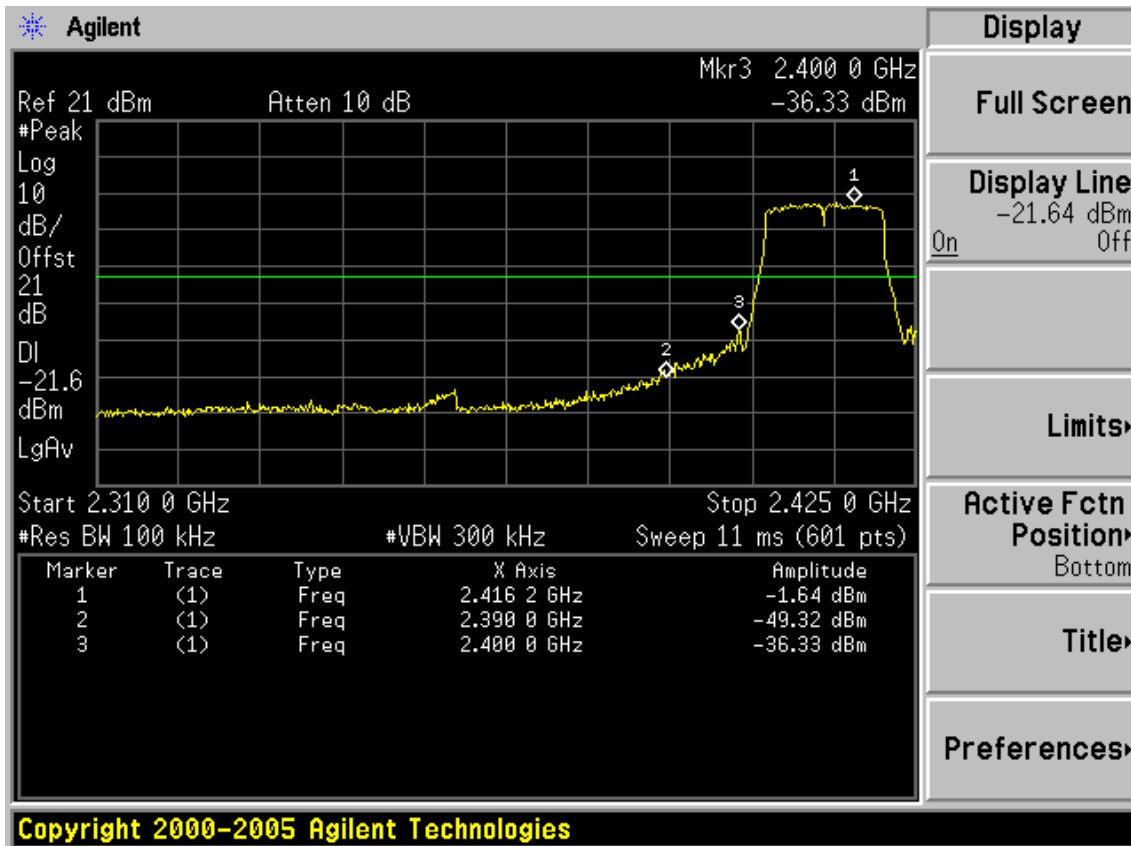


Test Mode: IEEE 802.11g TX

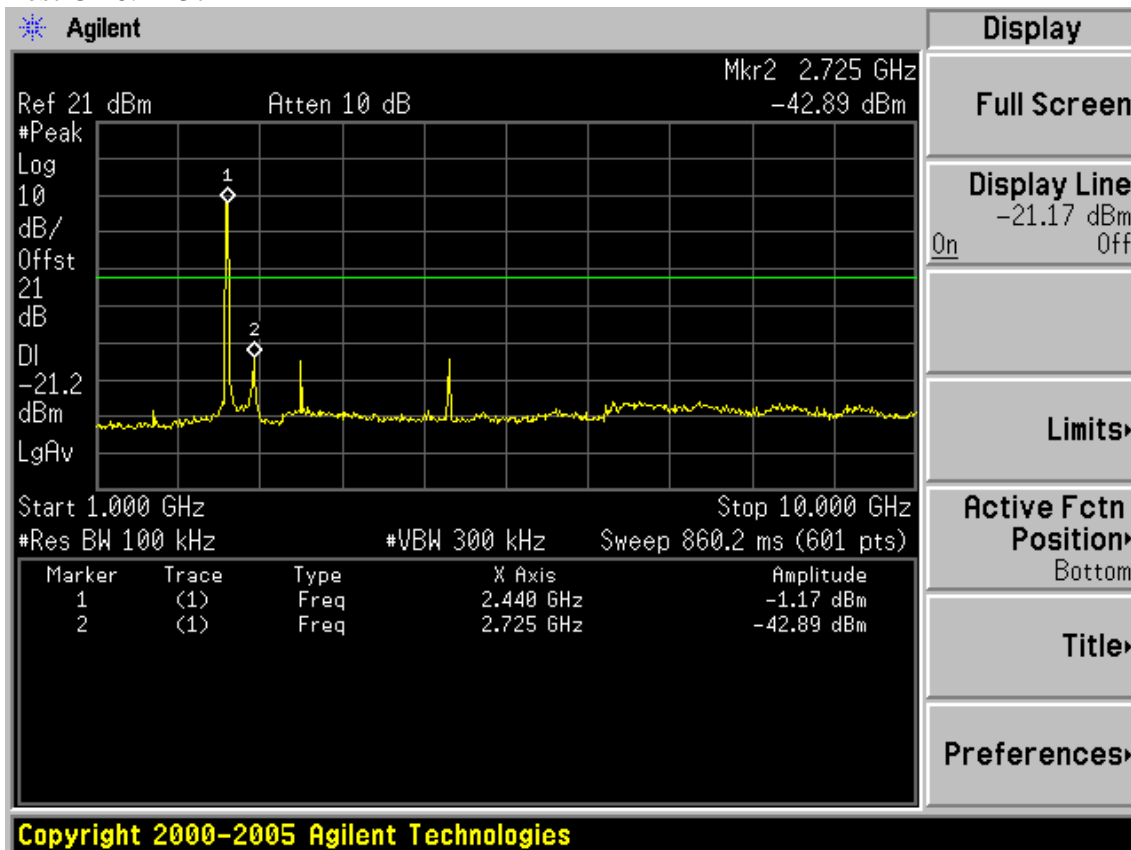
Test CH1: 2412MHz

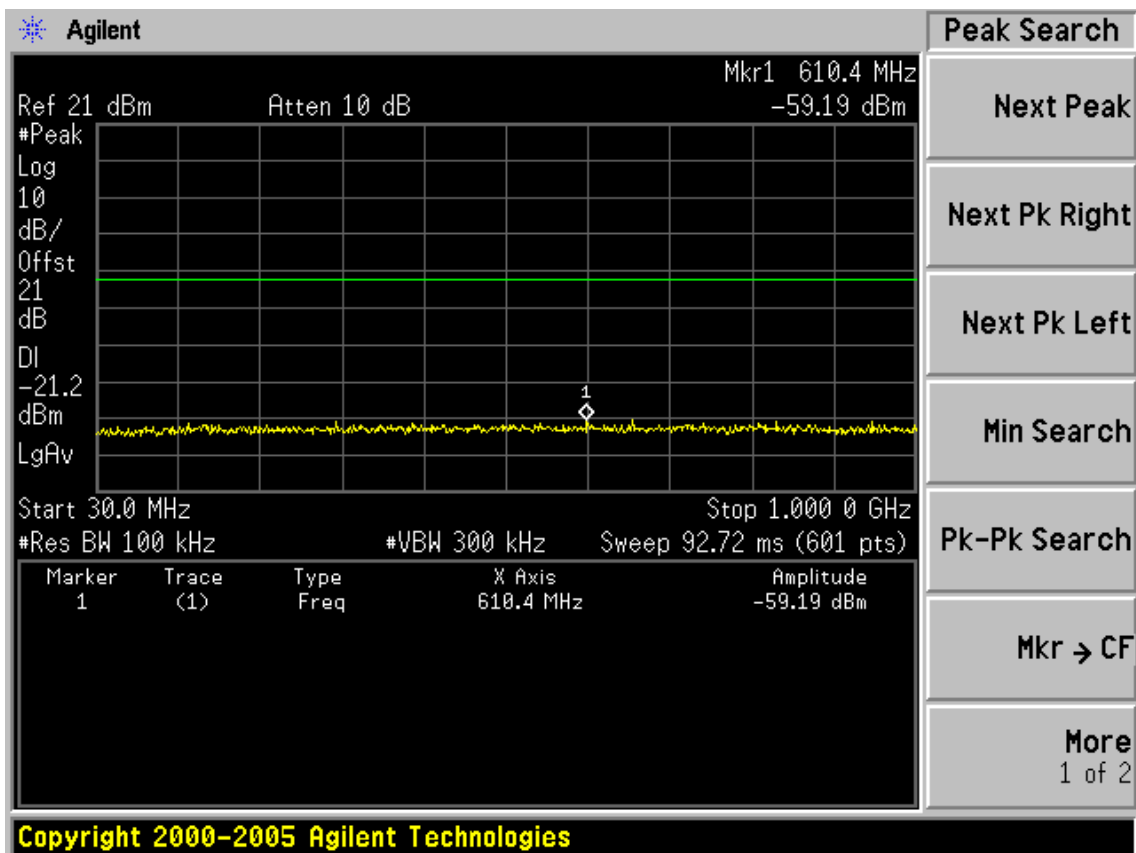
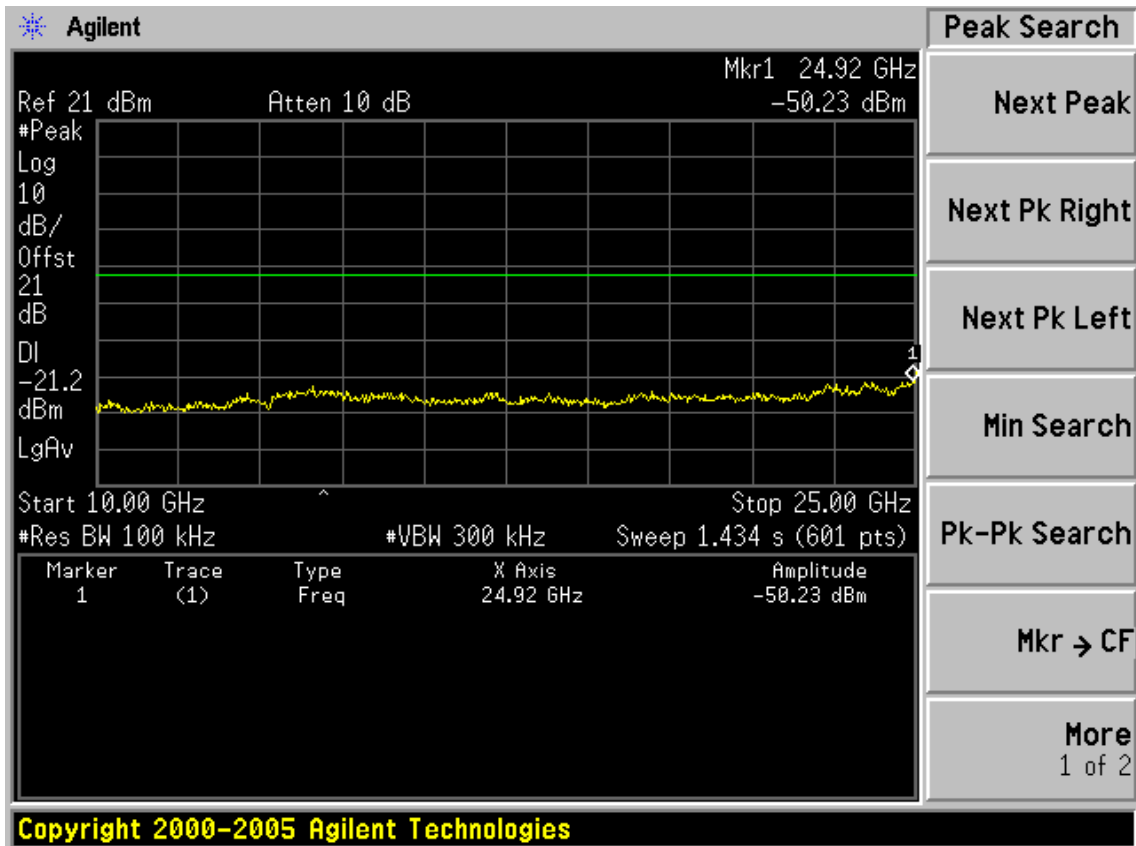




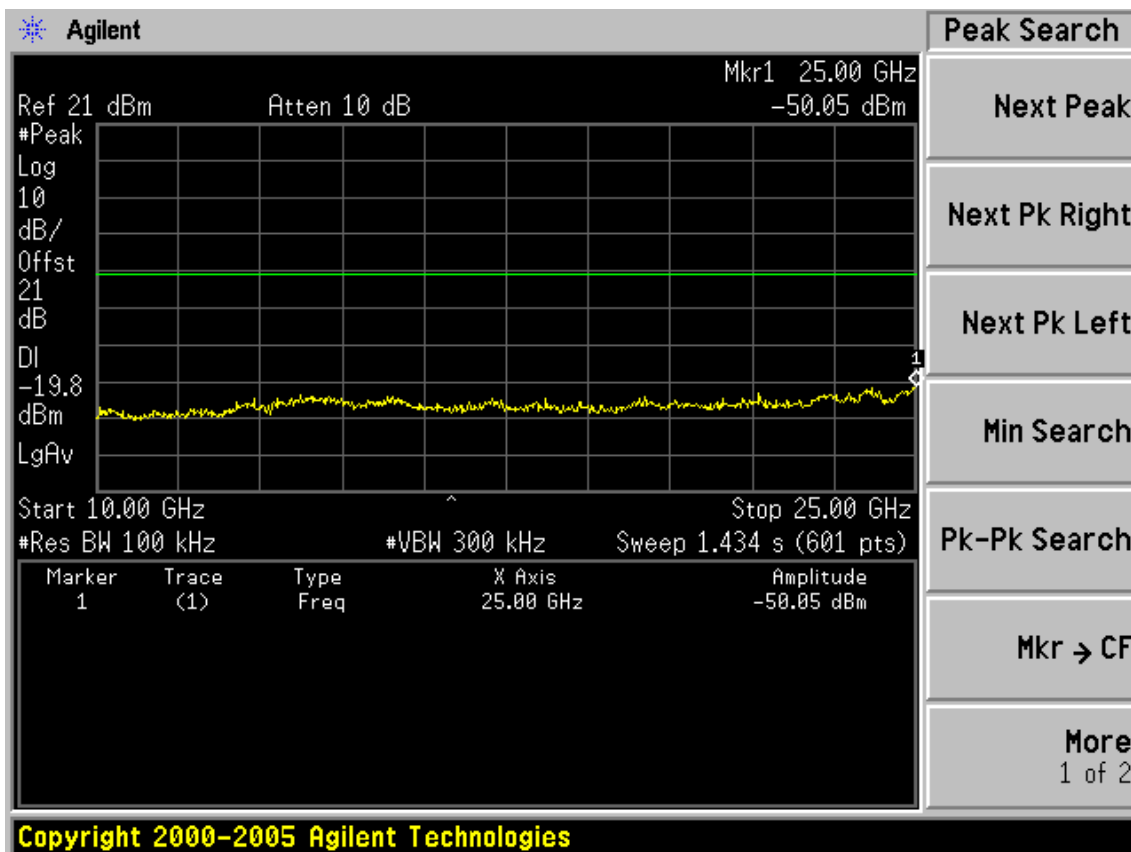
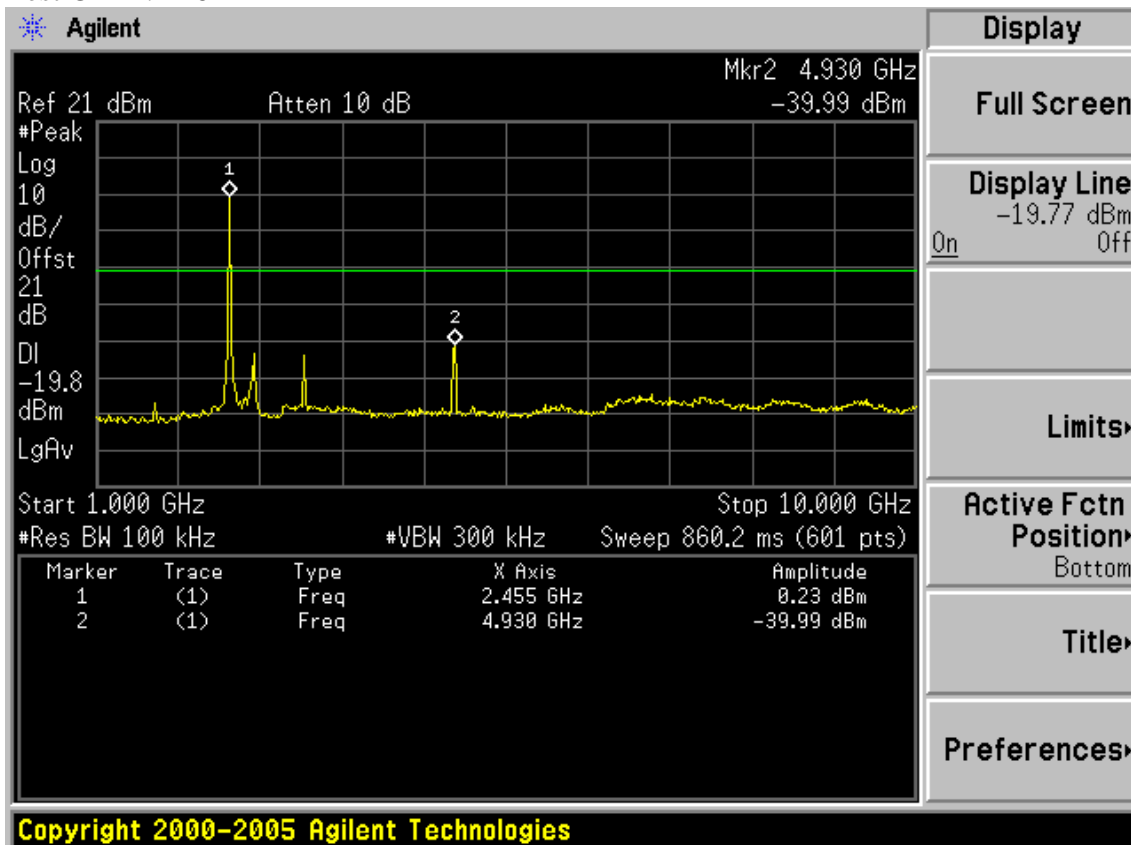


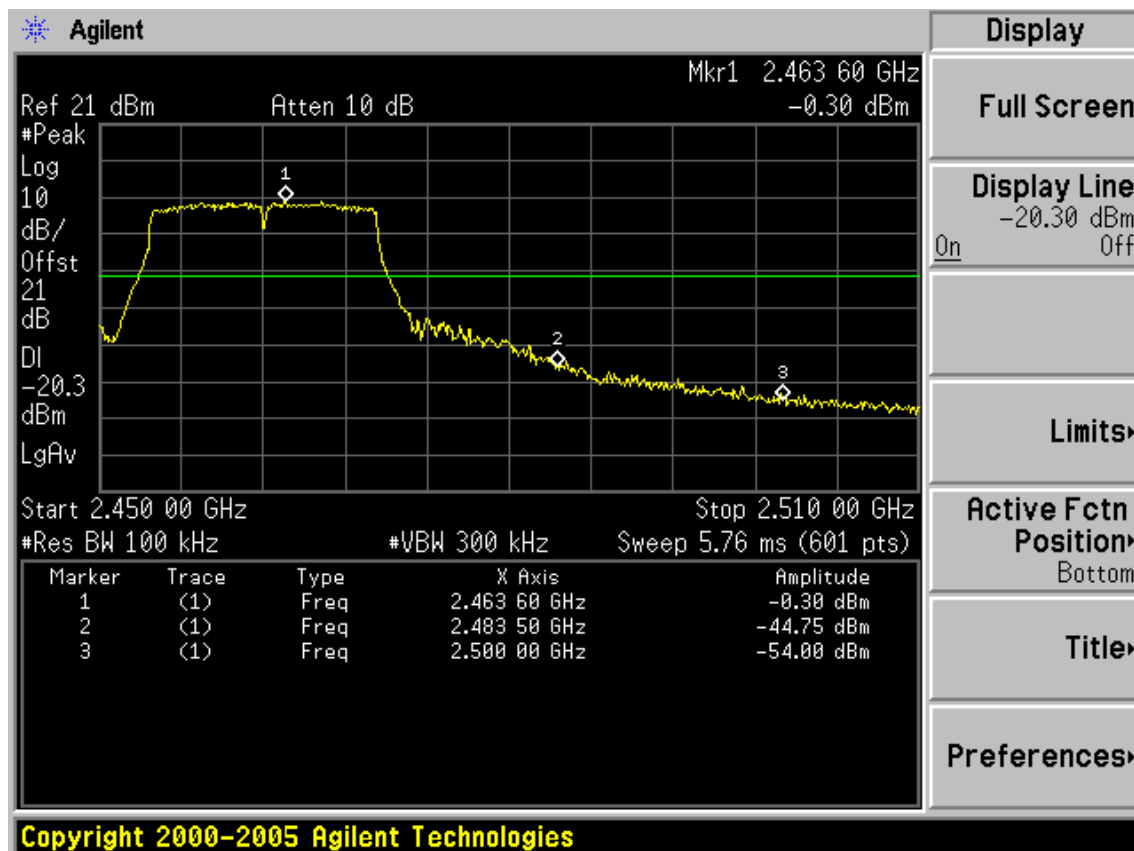
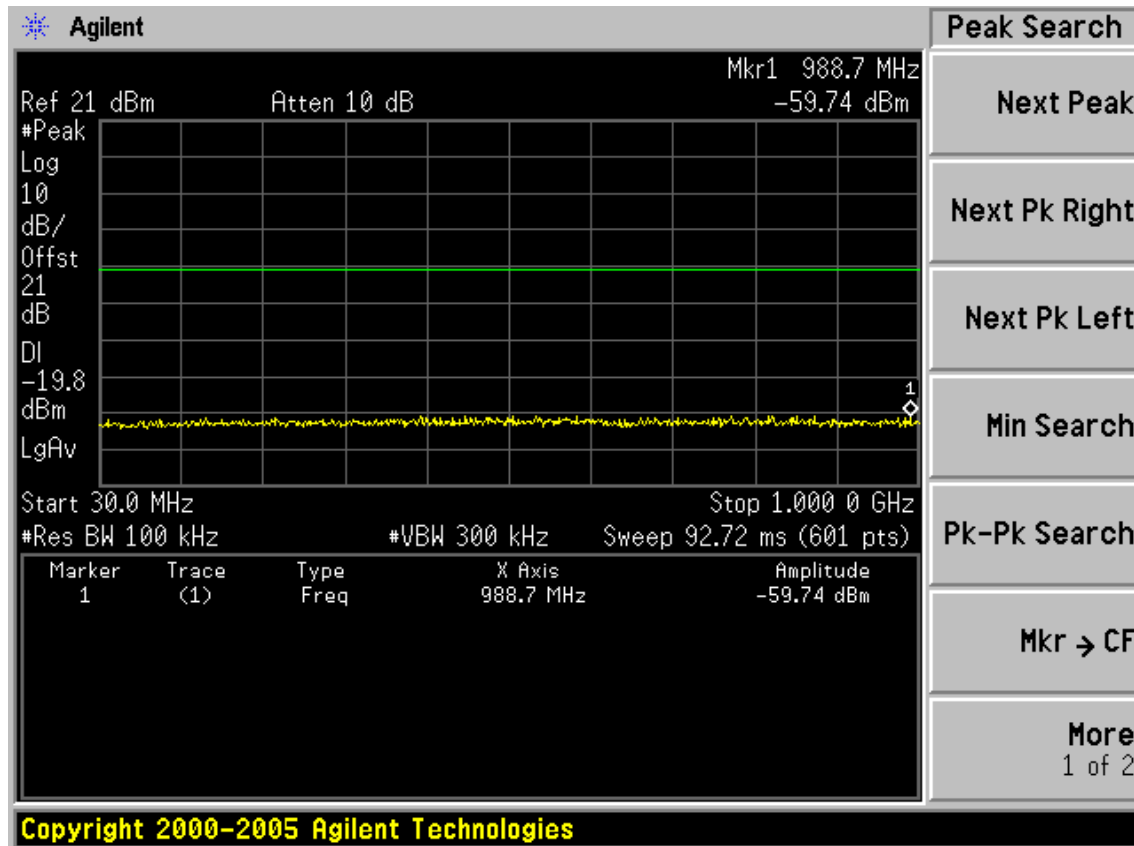
Test CH6: 2437MHz



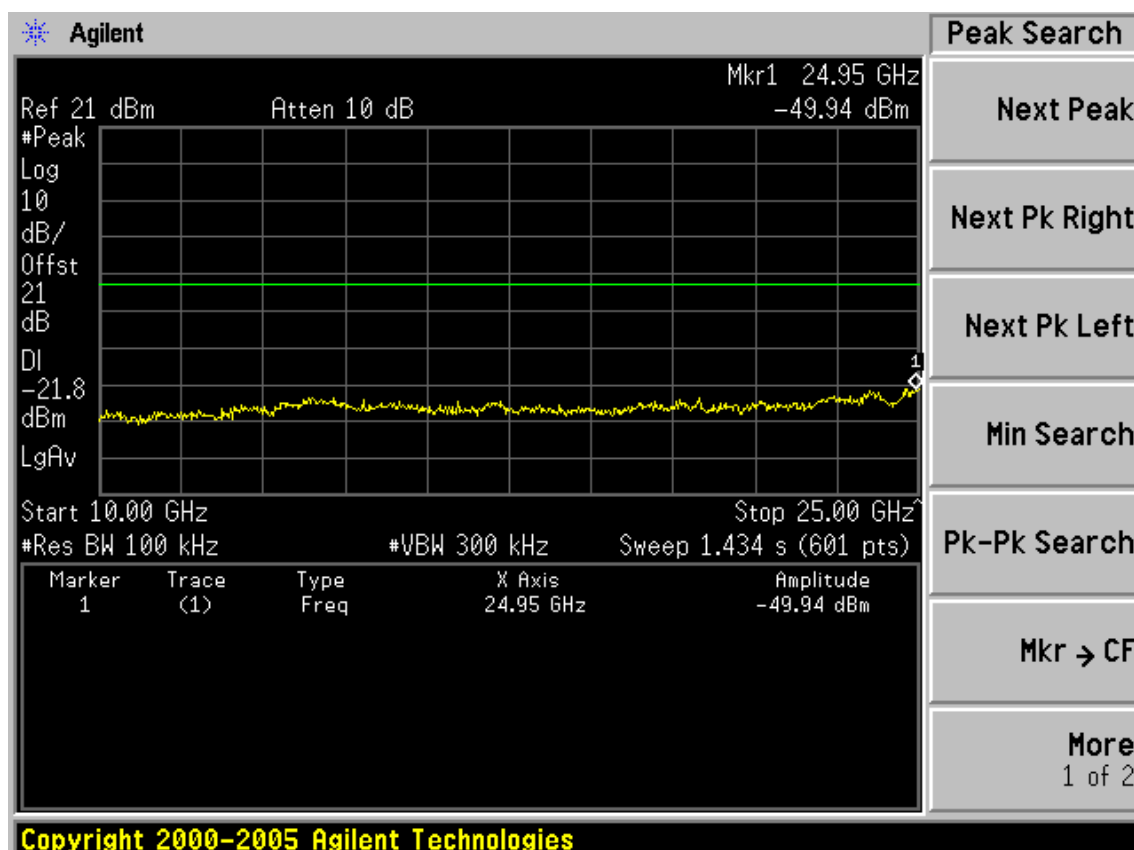
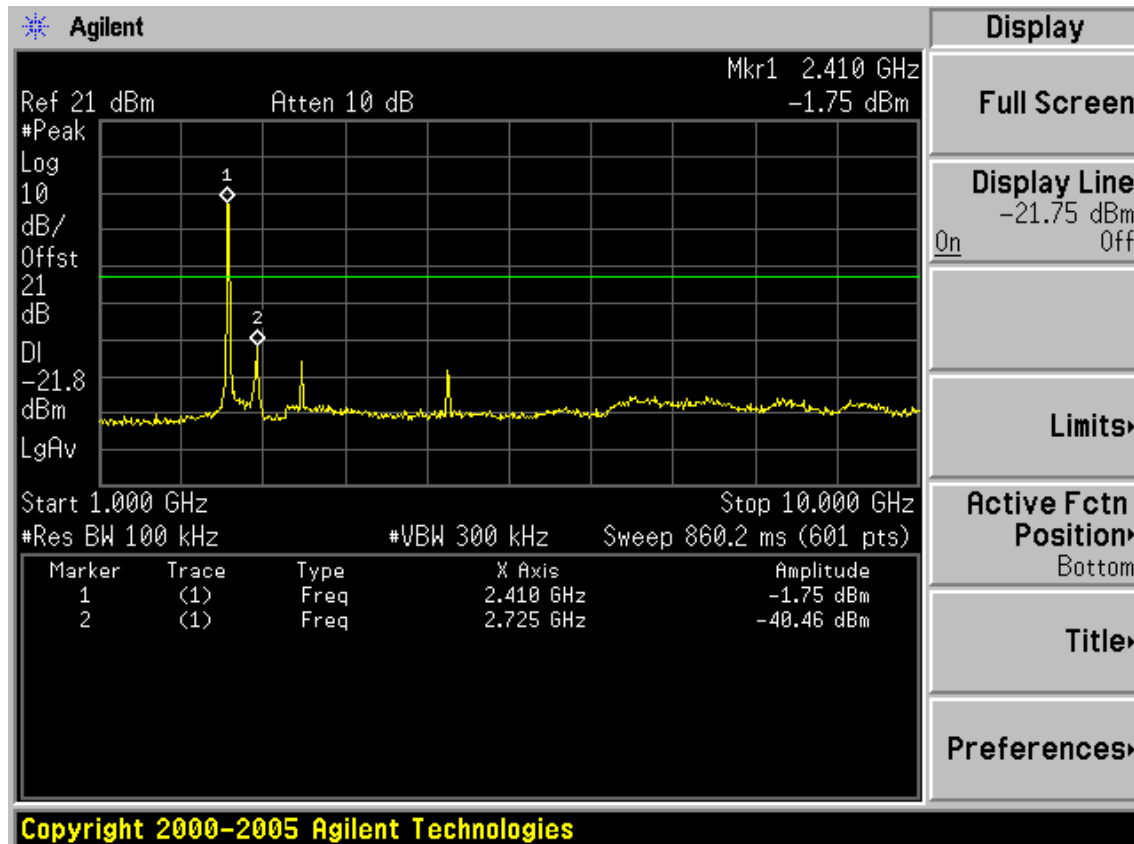


Test CH11: 2462MHz

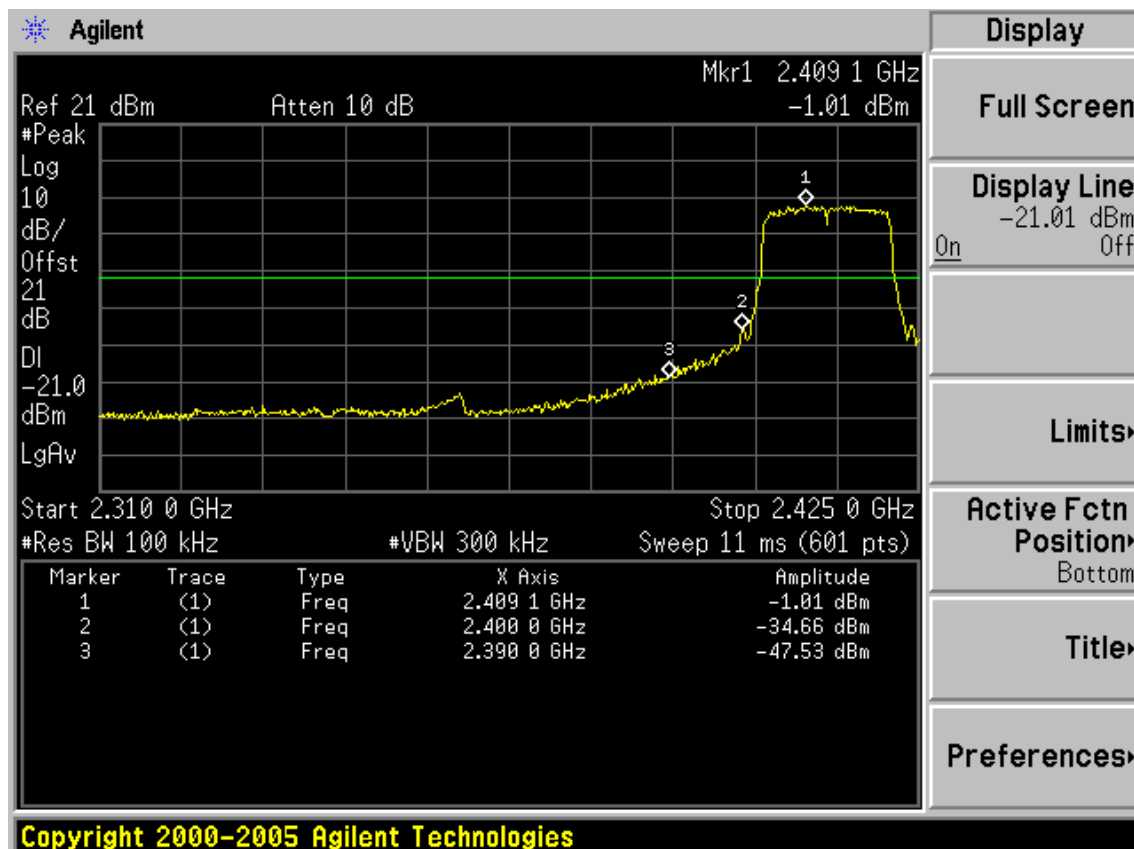
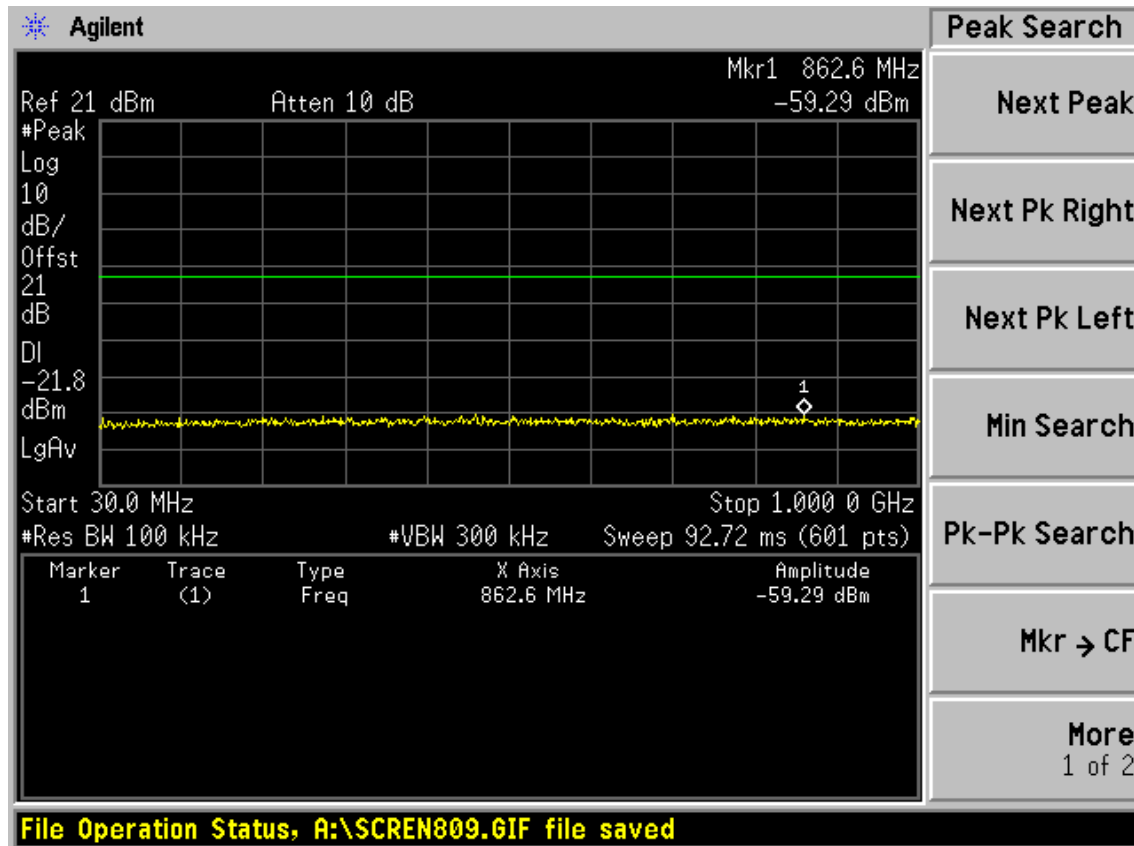




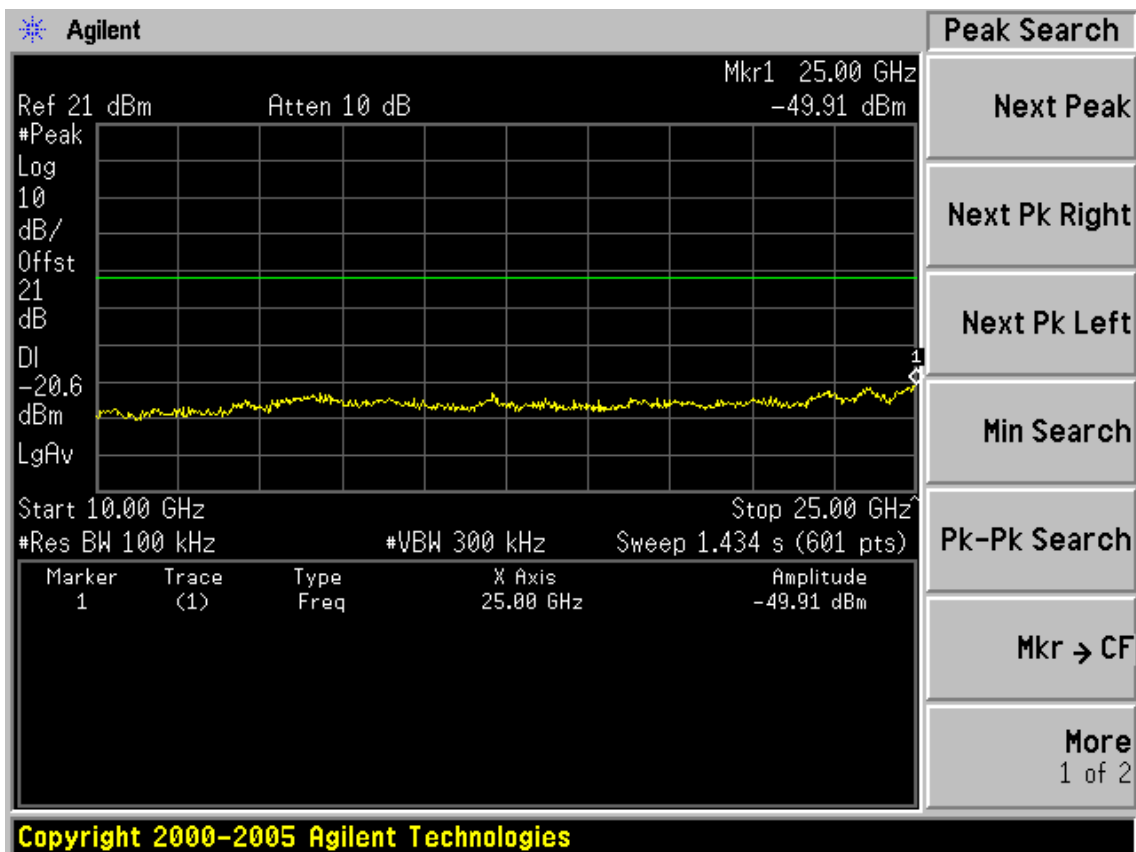
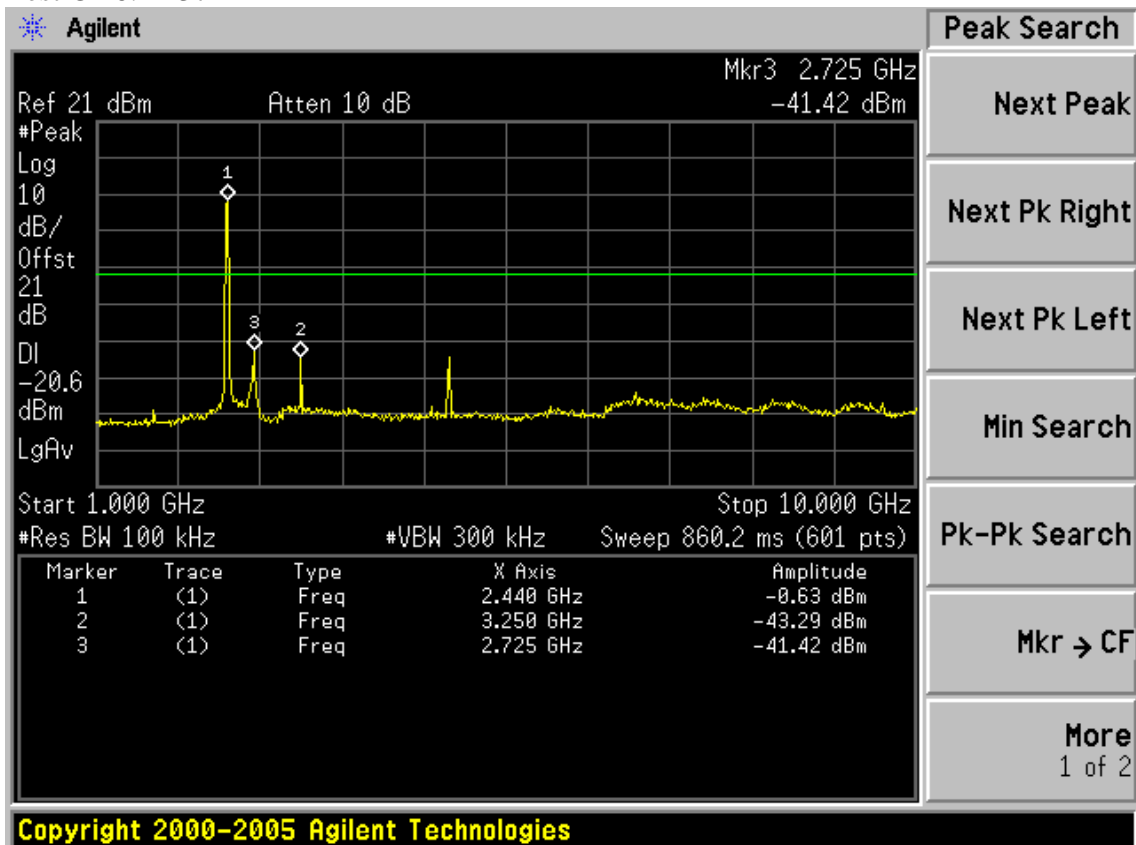
Test Mode: IEEE 802.11n HT20 TX  
Test CH1: 2412MHz

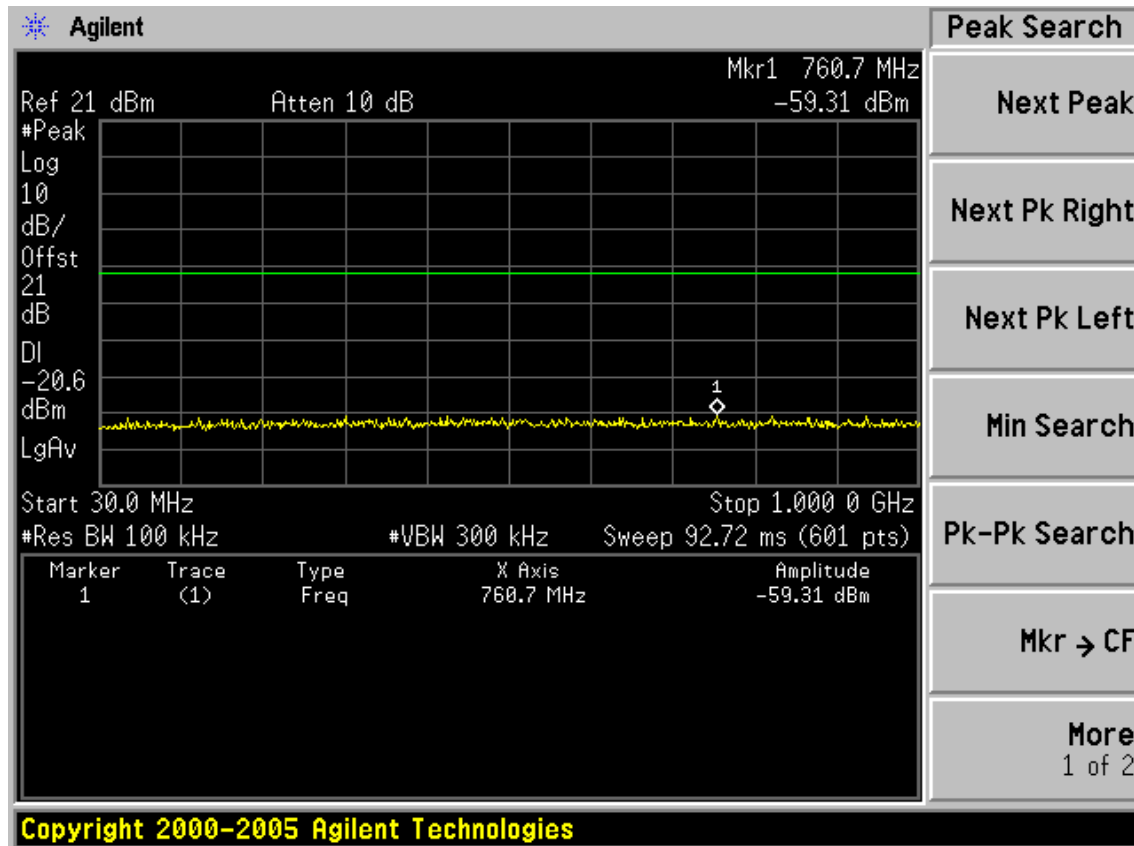




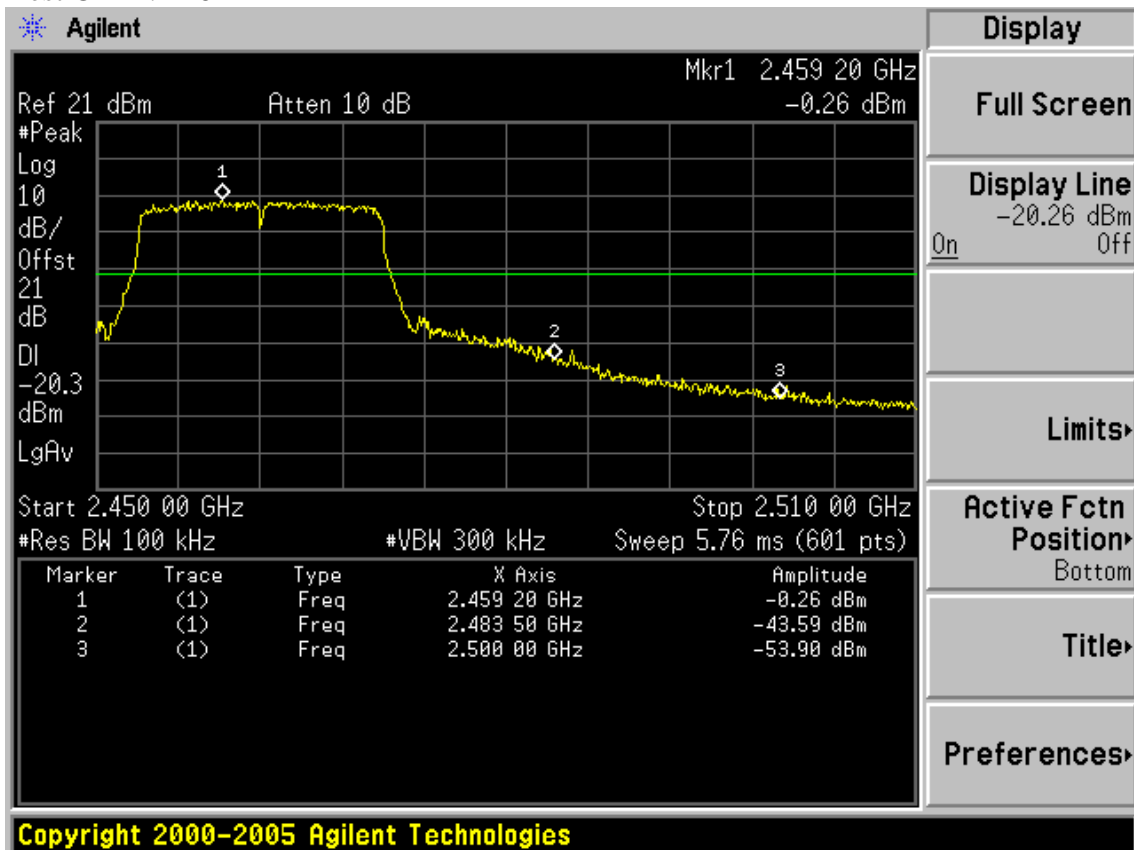


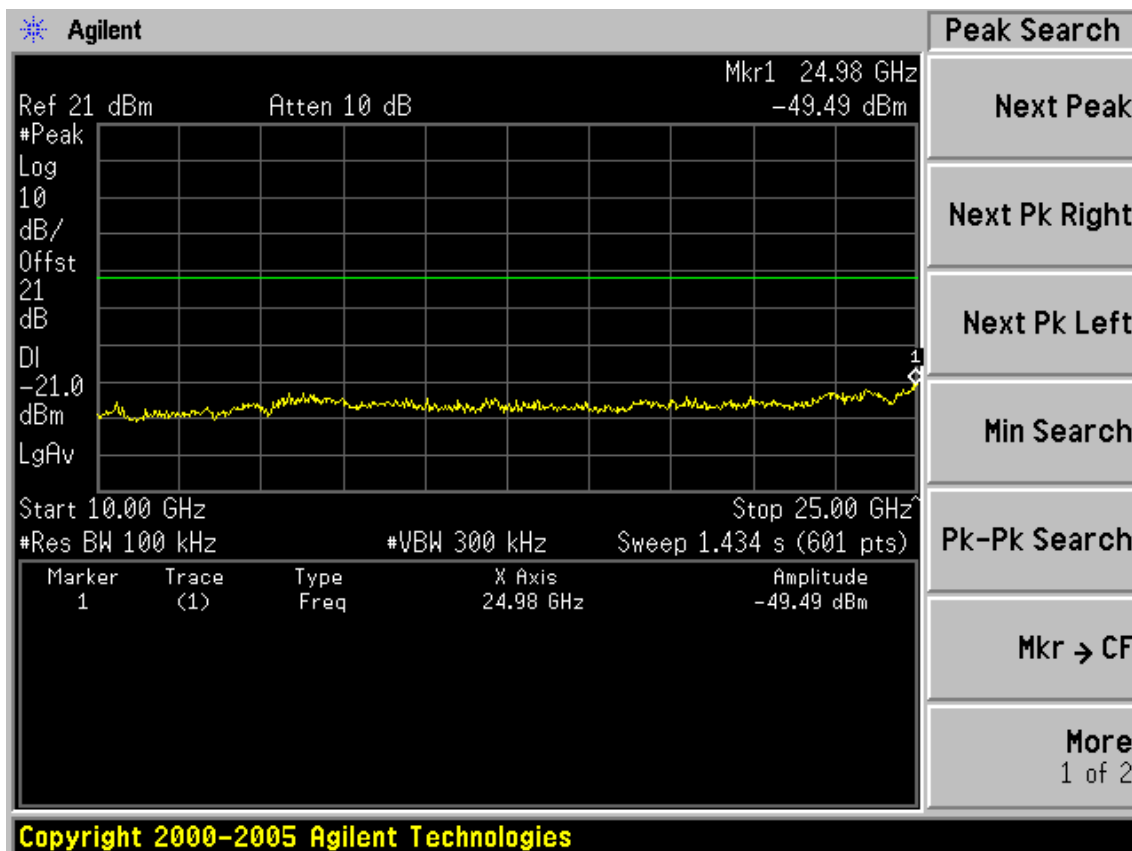
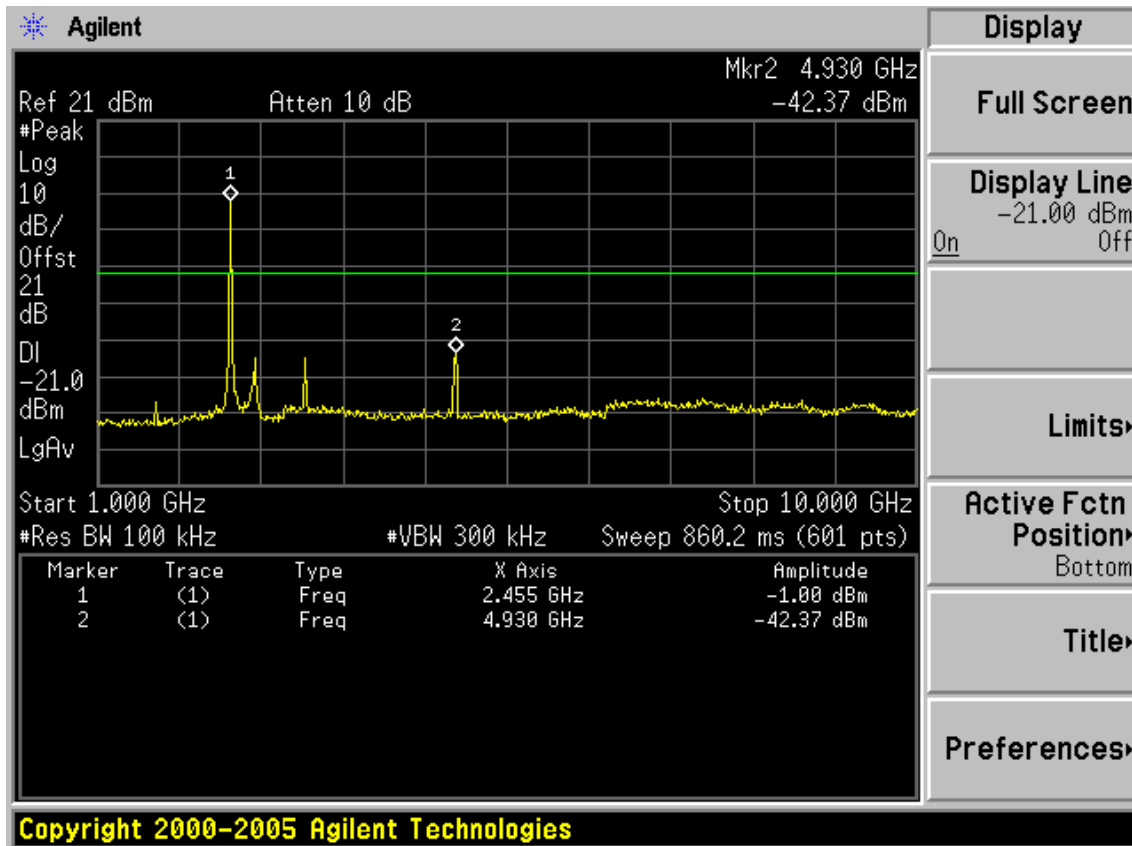
Test CH6: 2437MHz

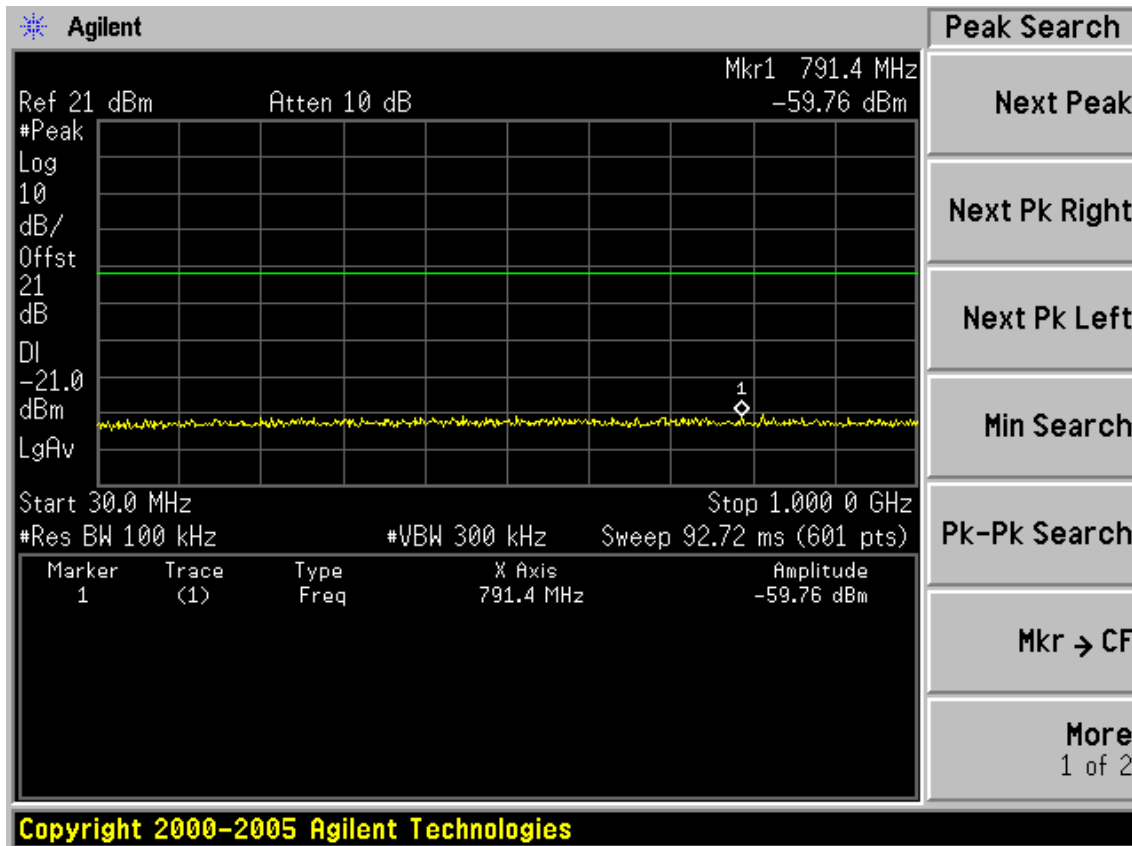




Test CH11: 2462MHz

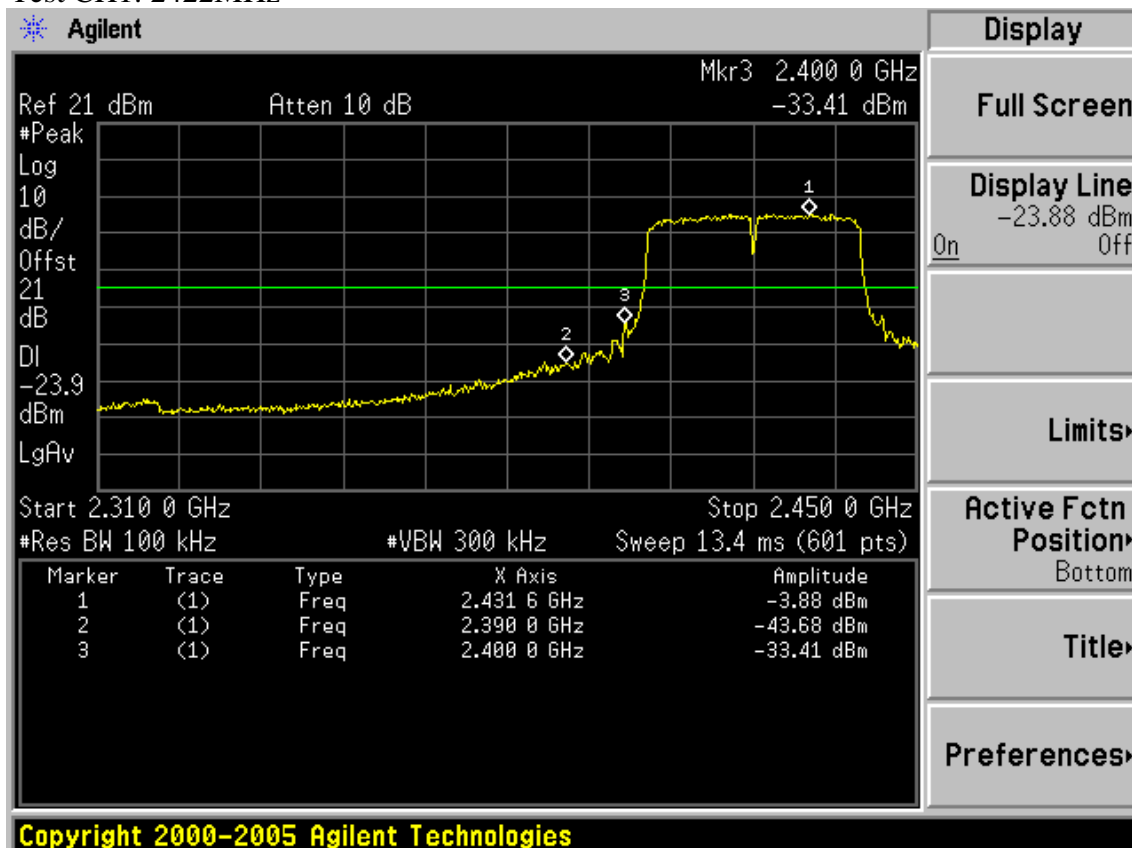


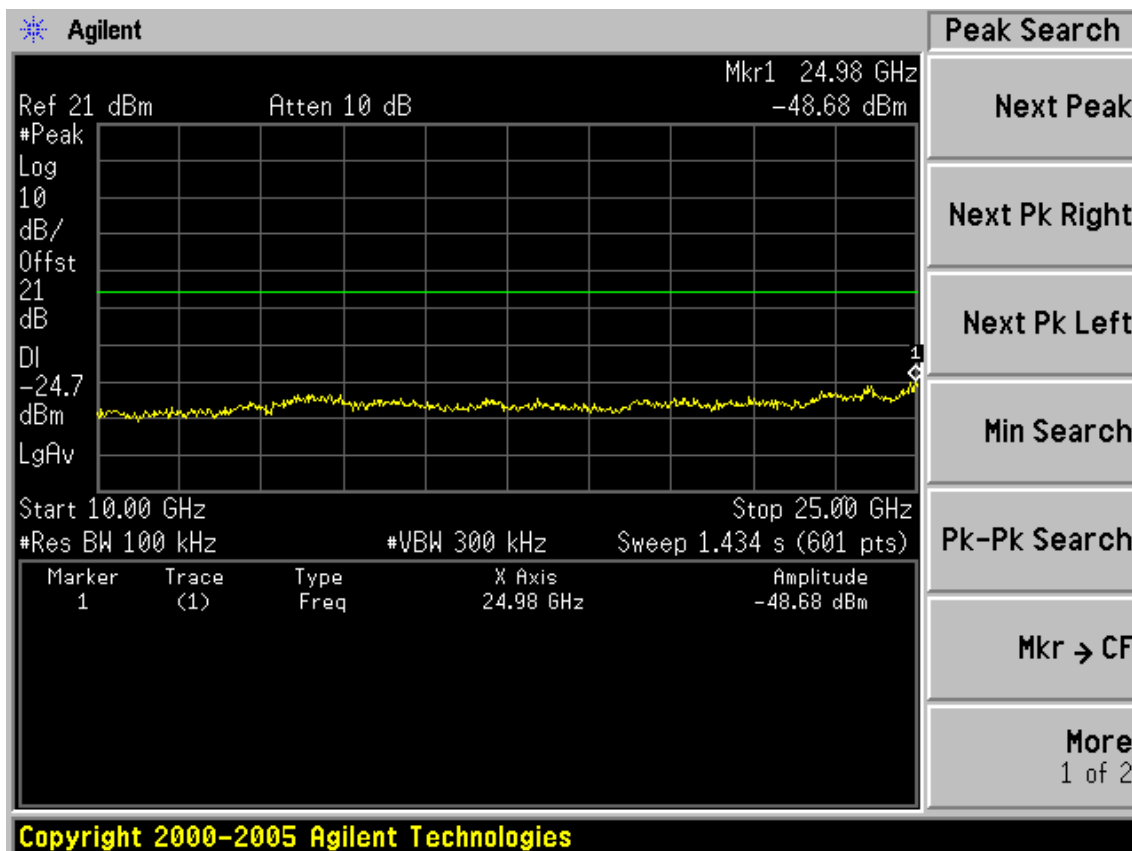
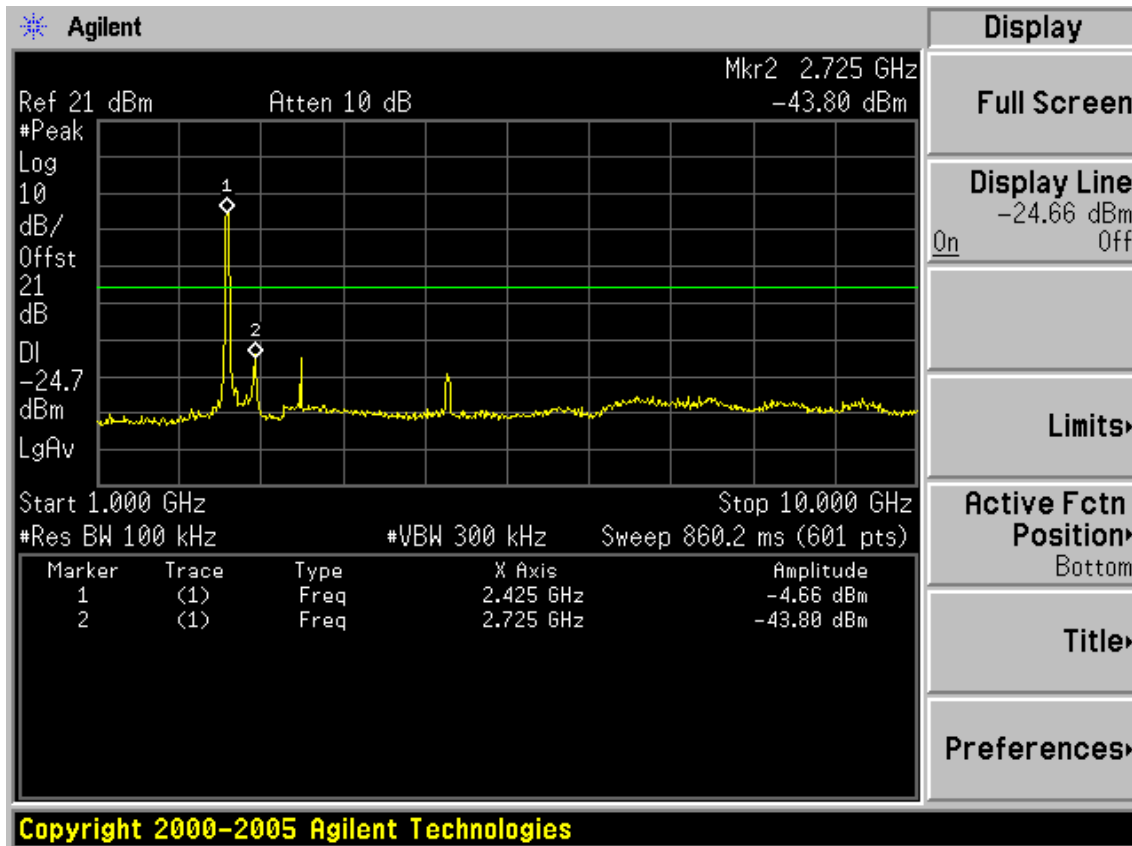


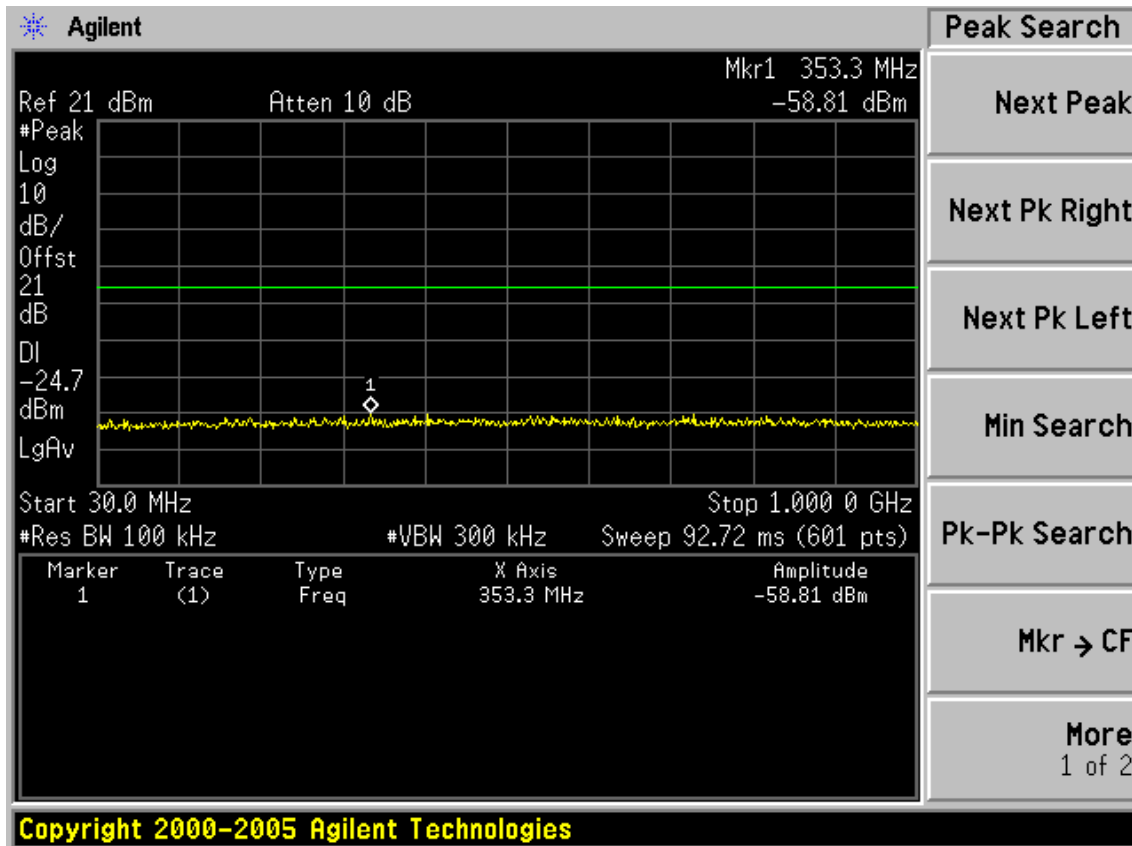


Test Mode: IEEE 802.11n HT40 TX

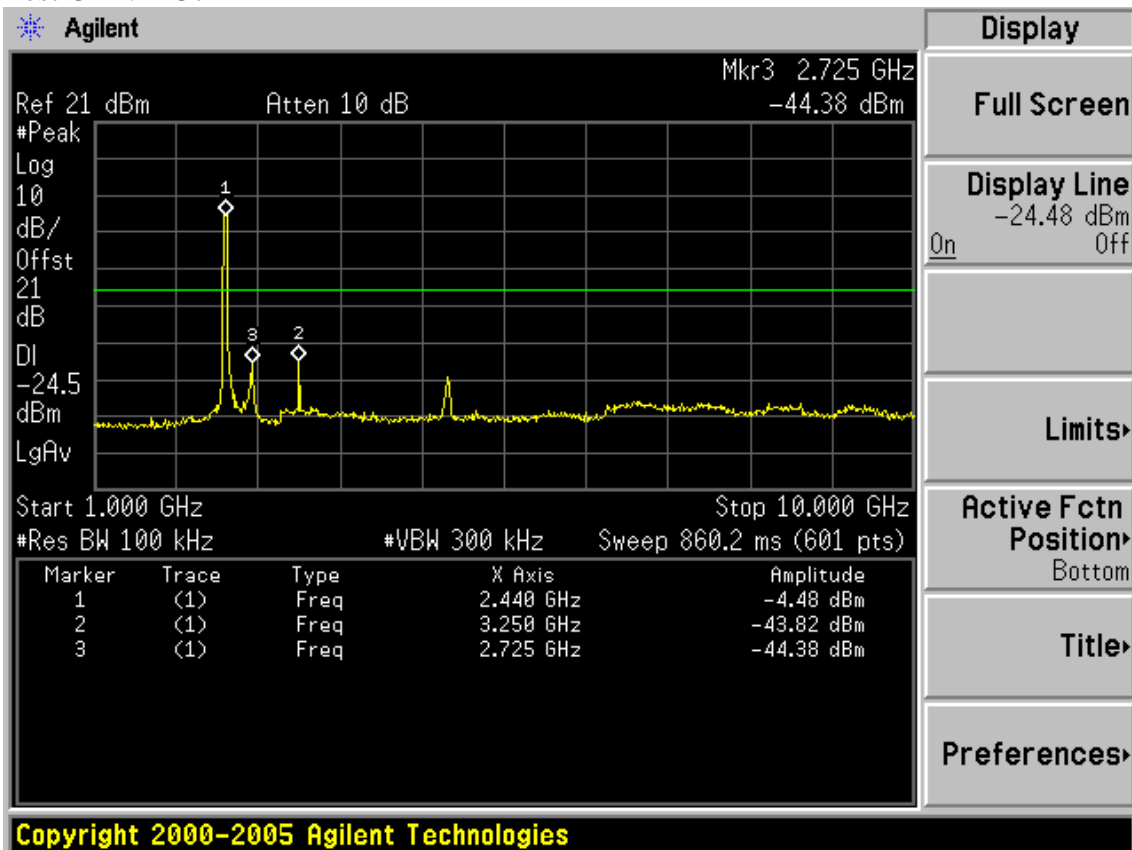
Test CH1: 2422MHz

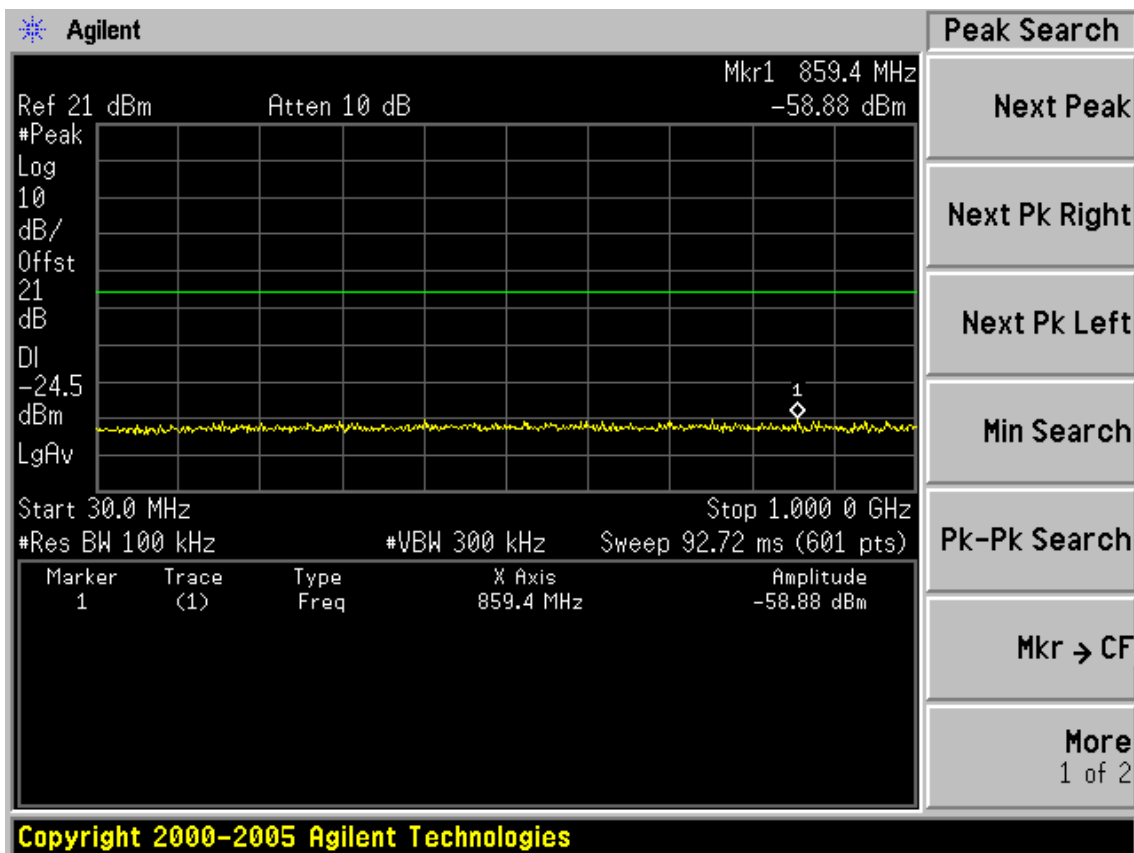
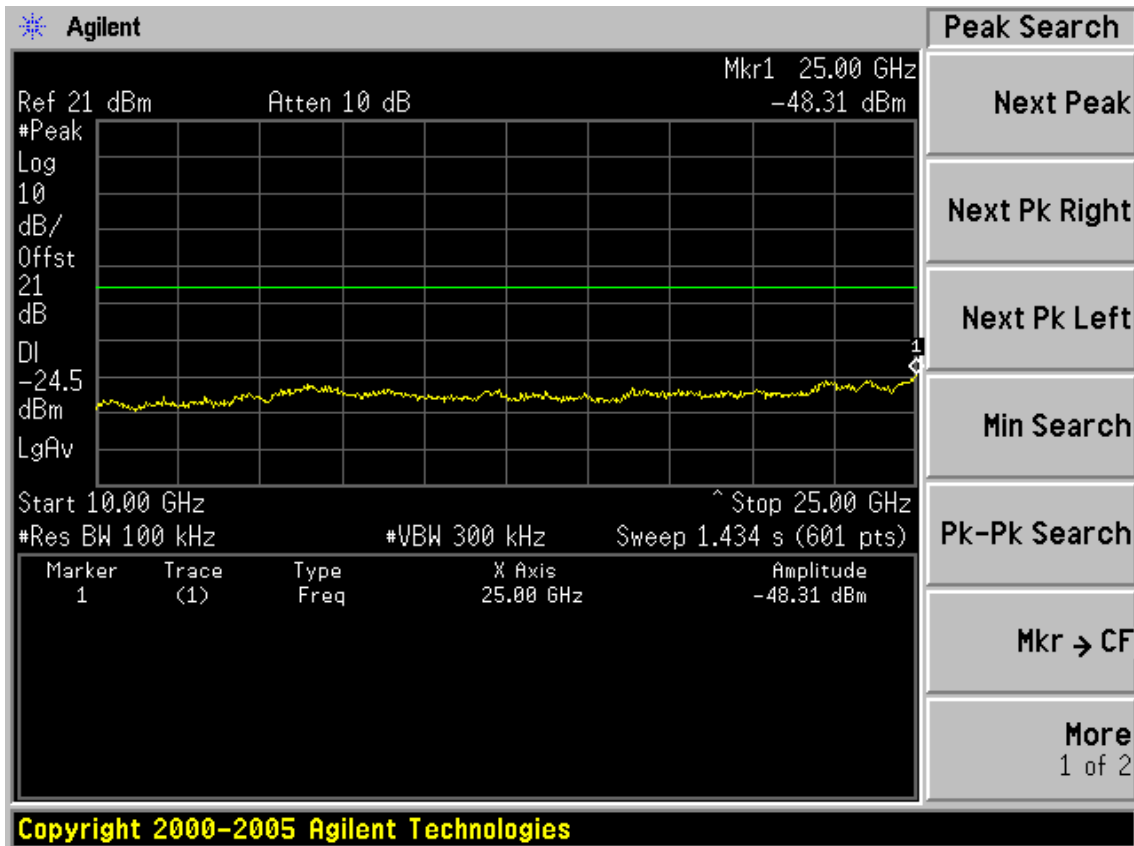






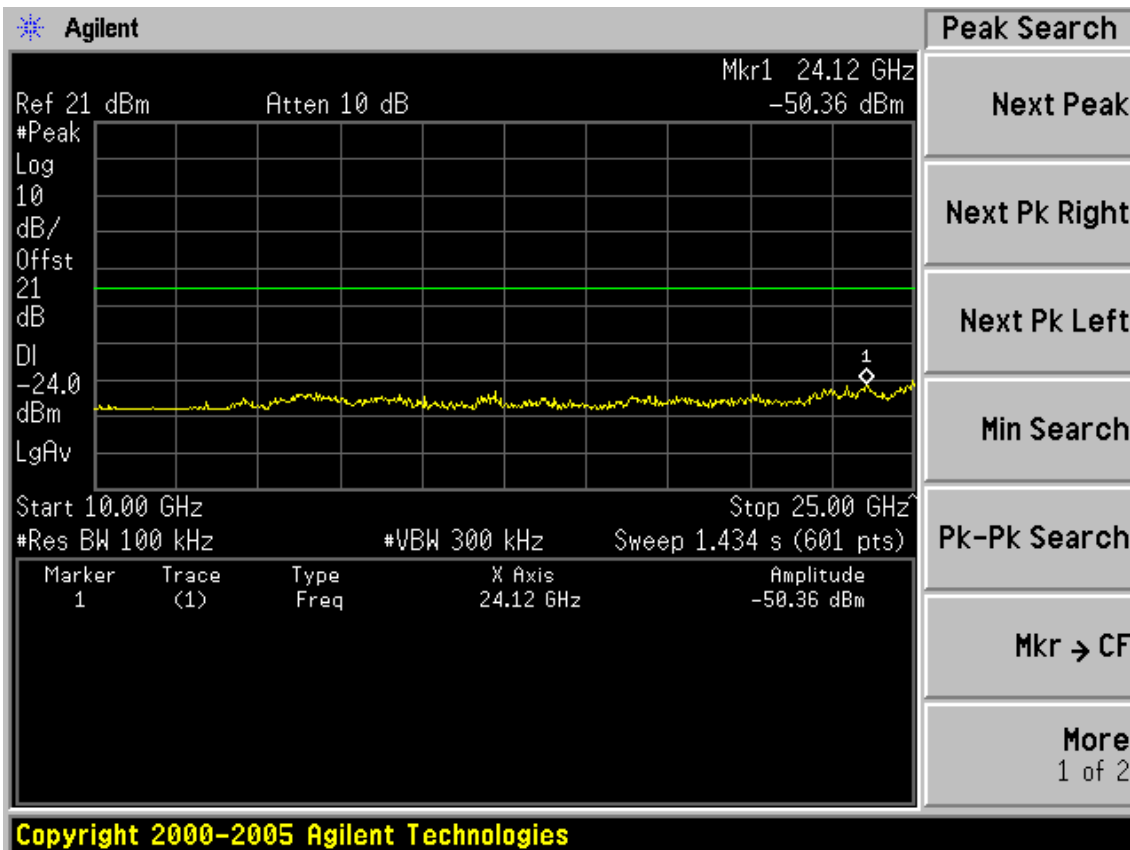
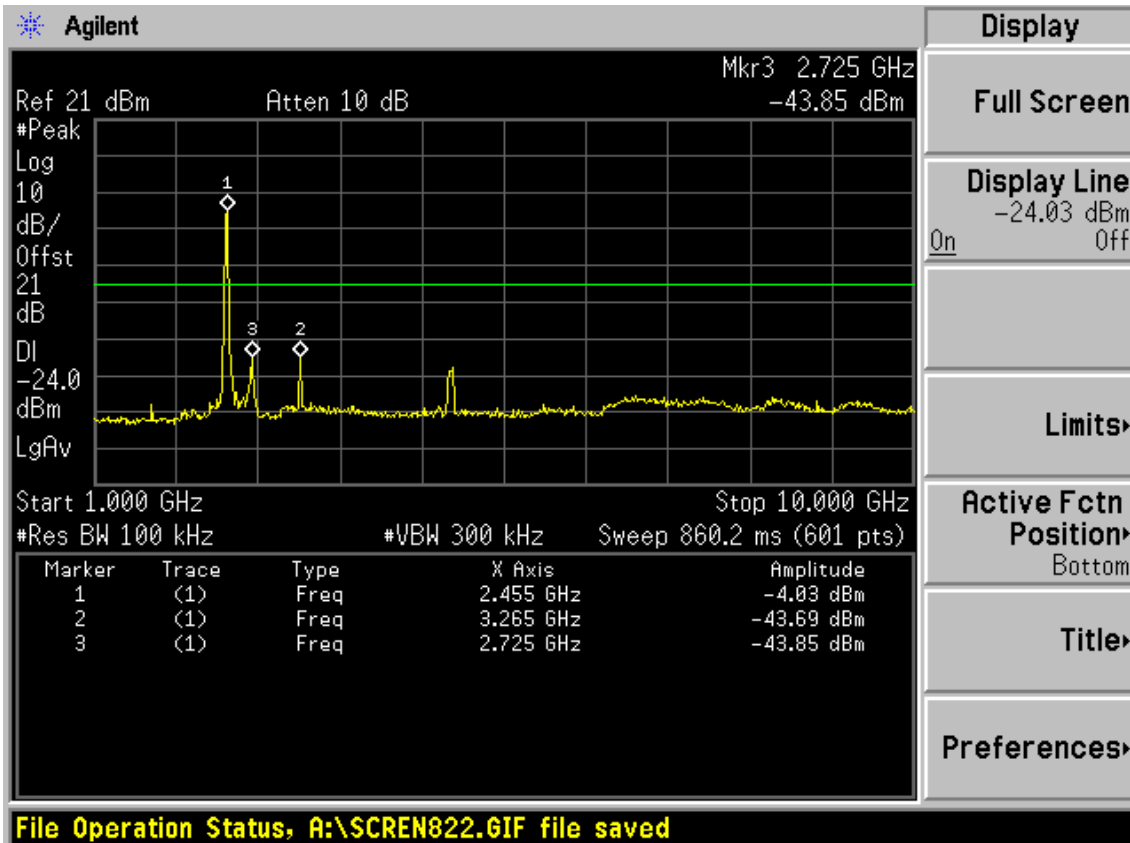
Test CH4: 2437MHz

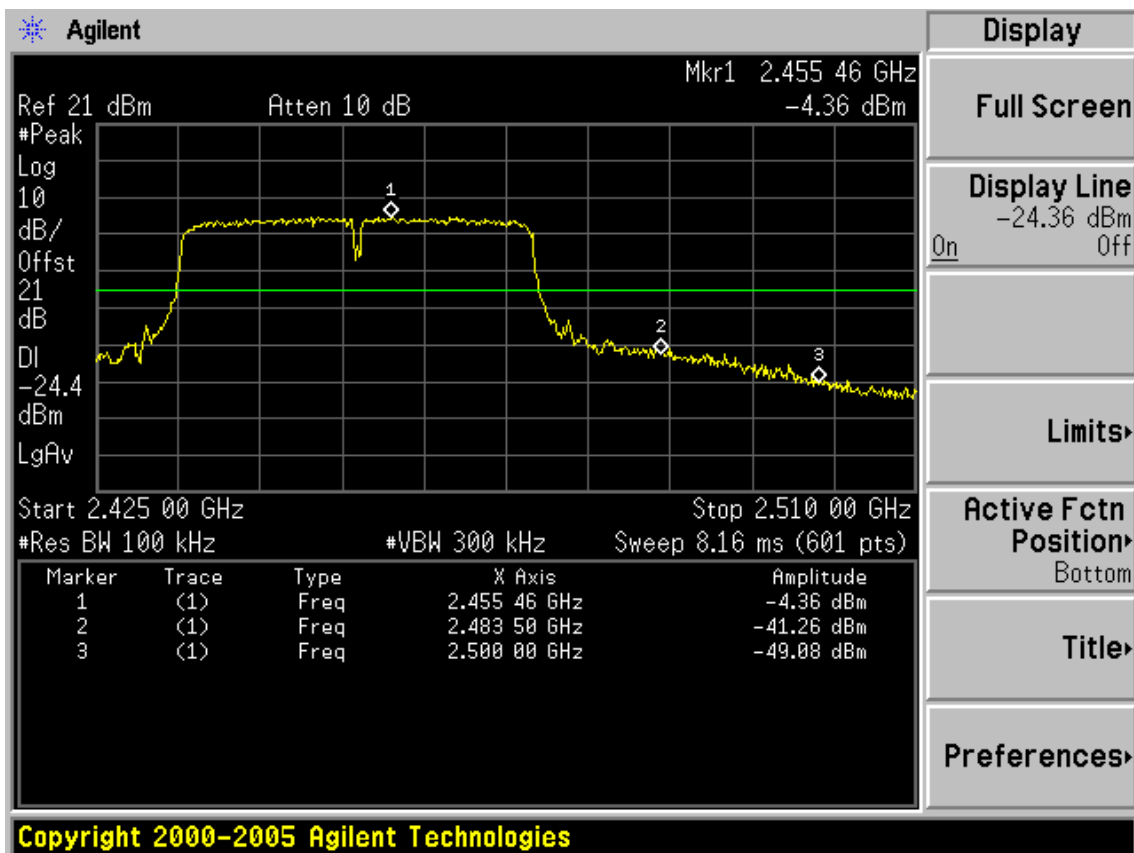
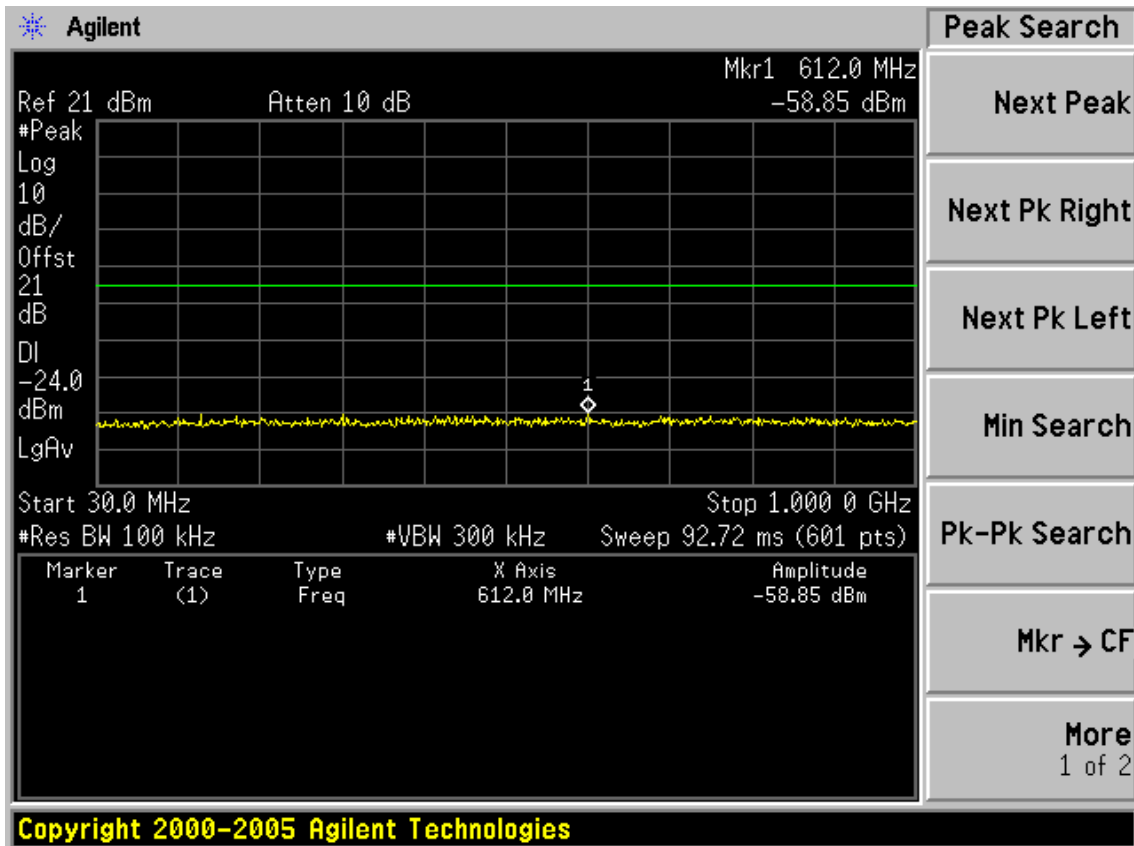






Test CH7: 2452MHz





## 6. BAND EDGE COMPLIANCE TEST

### 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

### 6.2. Limit

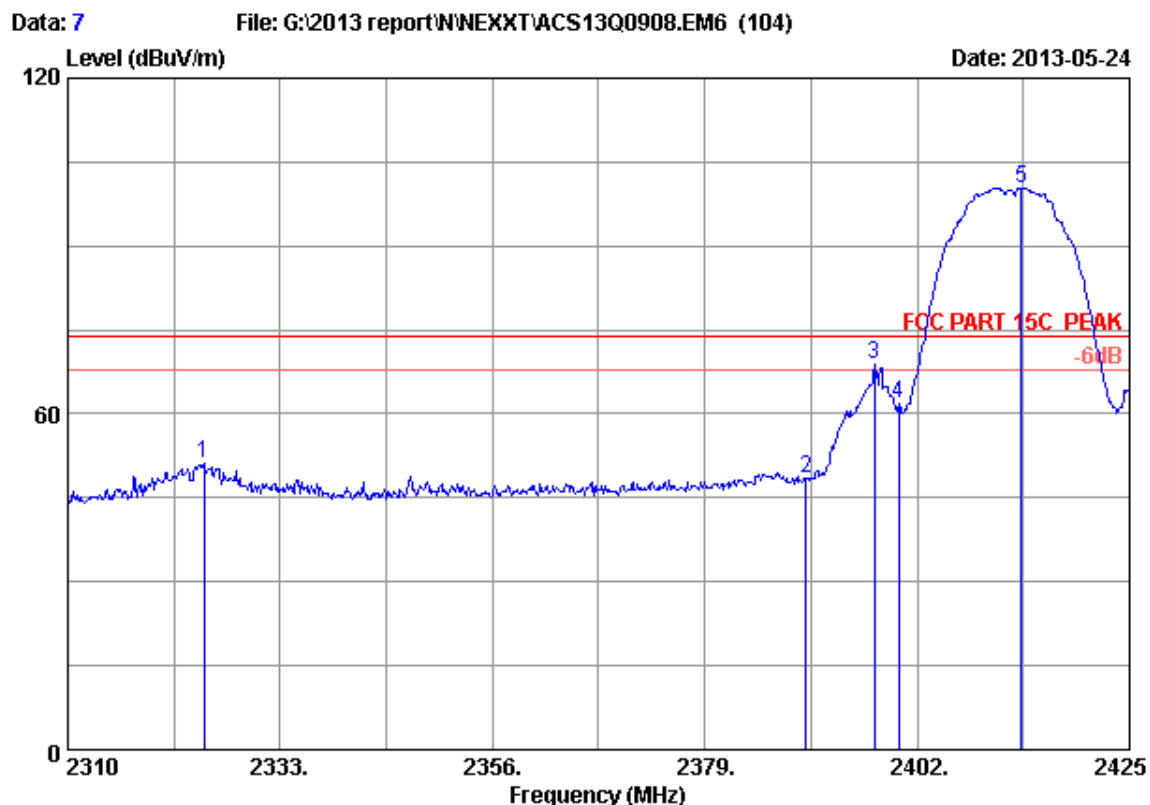
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209. all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental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

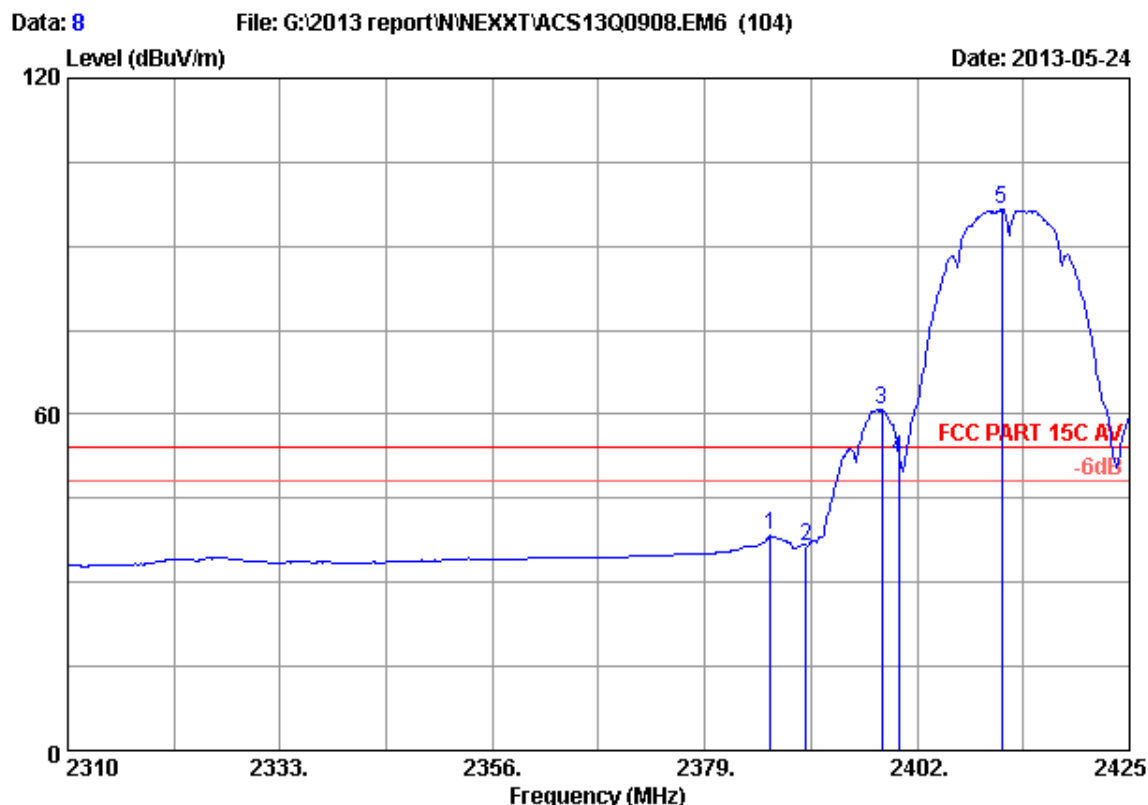


Site no. : 3m Chamber Data no. : 7  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH 1 2412MHz Tx  
 M/N : ARNPR154U1  
 :

	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 2324.720	26.28	5.89	35.92	54.84	51.09	74.00	22.91	Peak	
2 2390.000	26.70	6.00	35.92	51.81	48.59	74.00	25.41	Peak	
3 2397.400	26.74	6.01	35.92	71.96	68.79	74.00	5.21	Peak	
4 2400.000	26.76	6.02	35.92	64.89	61.75	74.00	12.25	Peak	
5 2413.270	26.84	6.04	35.92	103.40	100.36	74.00	-26.36	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.

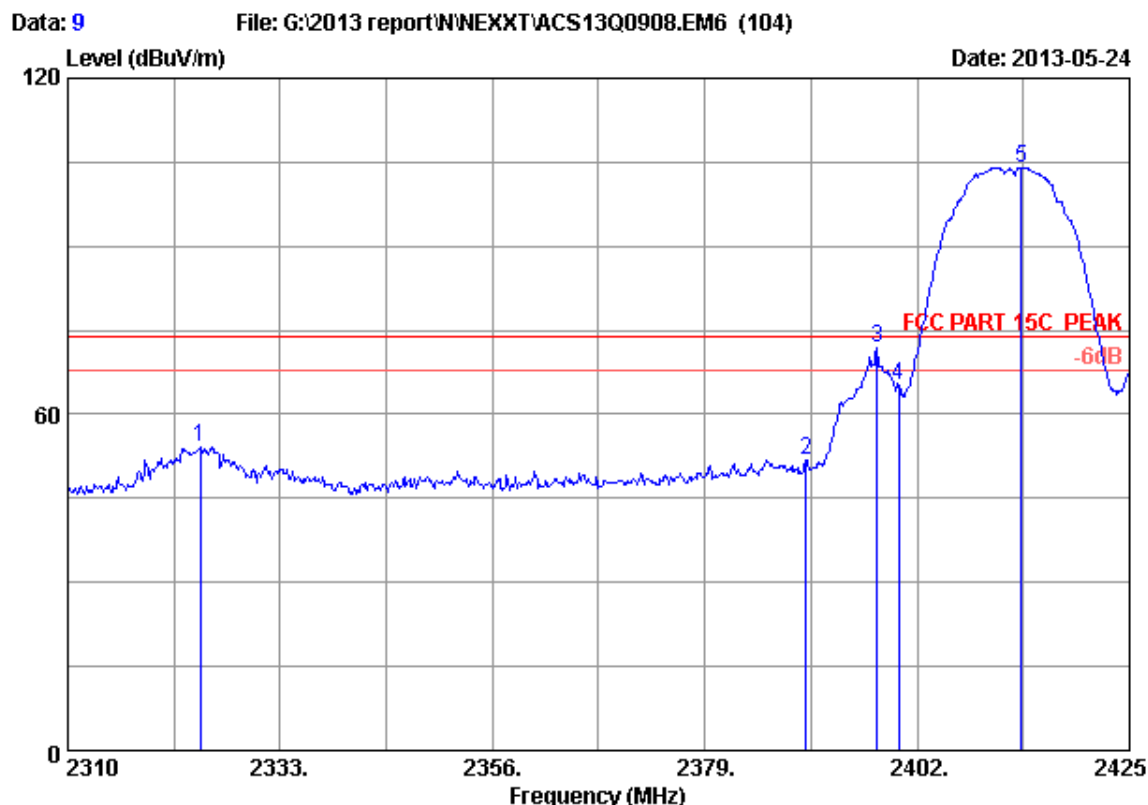


Site no. : 3m Chamber Data no. : 8  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
EUT : 3G Wireless N Nano Router  
Power supply : DC 5V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11b CH 1 2412MHz Tx  
M/N : ARNPR154U1  
:

	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	2386.130	26.67	5.99	35.92	41.58	38.32	54.00	15.68	Average
2	2390.000	26.70	6.00	35.92	39.81	36.59	54.00	17.41	Average
3	2398.205	26.75	6.01	35.92	63.89	60.73	54.00	-6.73	Average
4	2400.000	26.76	6.02	35.92	55.44	52.30	54.00	1.70	Average
5	2411.200	26.83	6.04	35.92	99.56	96.51	54.00	-42.51	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.

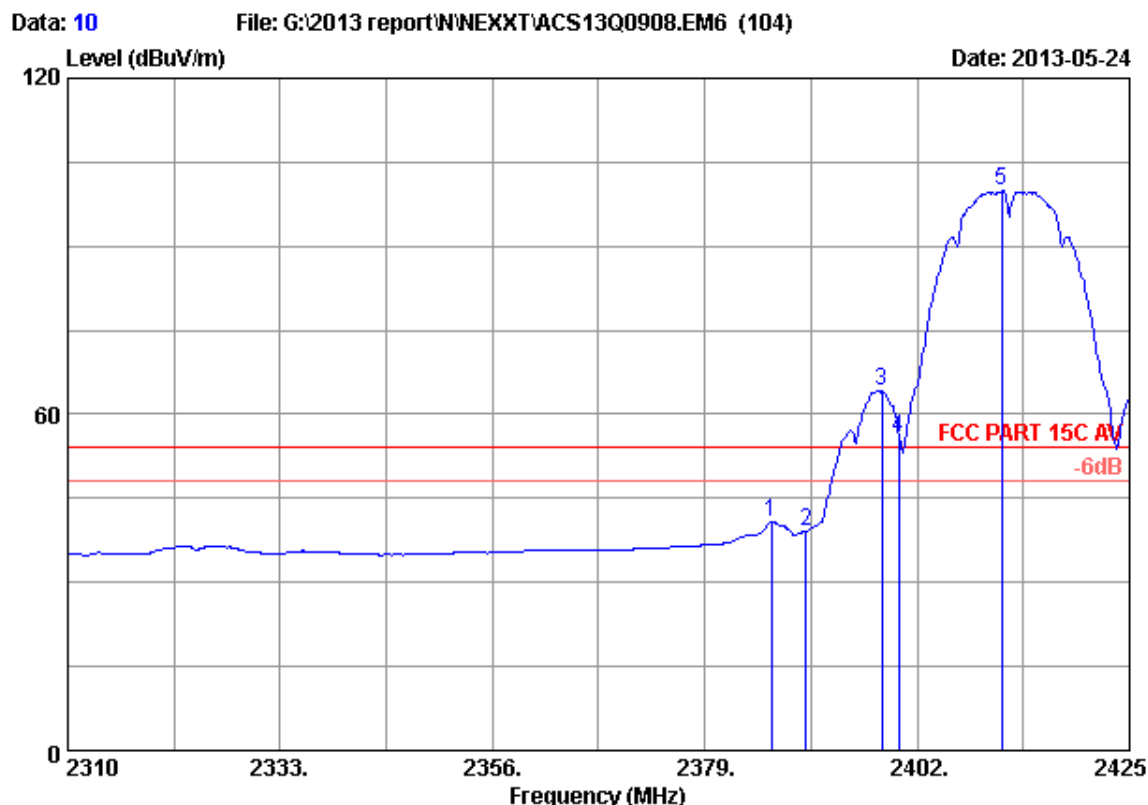


Site no. : 3m Chamber Data no. : 9  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH 1 2412MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2324.375	26.28	5.89	35.92	57.91	54.16	74.00	19.84	Peak
2	2390.000	26.70	6.00	35.92	54.89	51.67	74.00	22.33	Peak
3	2397.630	26.74	6.01	35.92	75.03	71.86	74.00	2.14	Peak
4	2400.000	26.76	6.02	35.92	68.28	65.14	74.00	8.86	Peak
5	2413.270	26.84	6.04	35.92	107.12	104.08	74.00	-30.08	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.

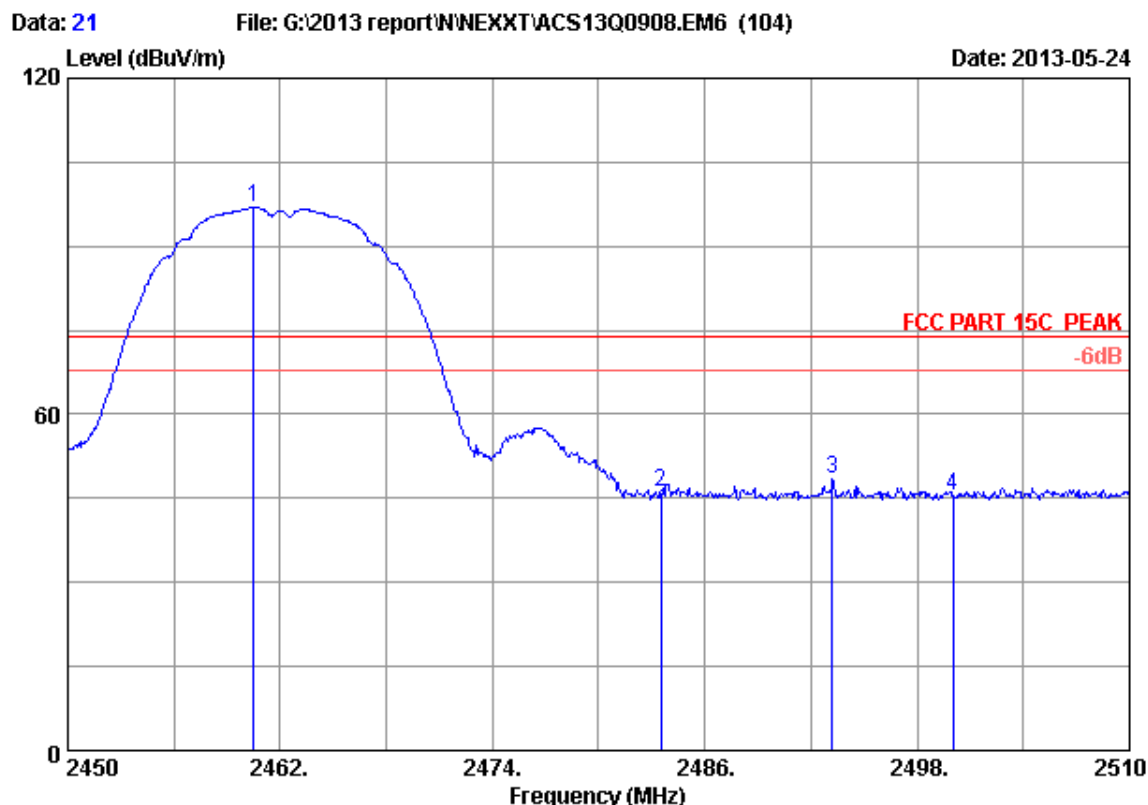


Site no. : 3m Chamber Data no. : 10  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH 1 2412MHz Tx  
 M/N : ARNPR154U1  
 :

	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 2386.245	26.67	5.99	35.92	44.10	40.84	54.00	13.16	Average	
2 2390.000	26.70	6.00	35.92	42.30	39.08	54.00	14.92	Average	
3 2398.205	26.75	6.01	35.92	67.25	64.09	54.00	-10.09	Average	
4 2400.000	26.76	6.02	35.92	58.83	55.69	54.00	-1.69	Average	
5 2411.200	26.83	6.04	35.92	102.88	99.83	54.00	-45.83	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.



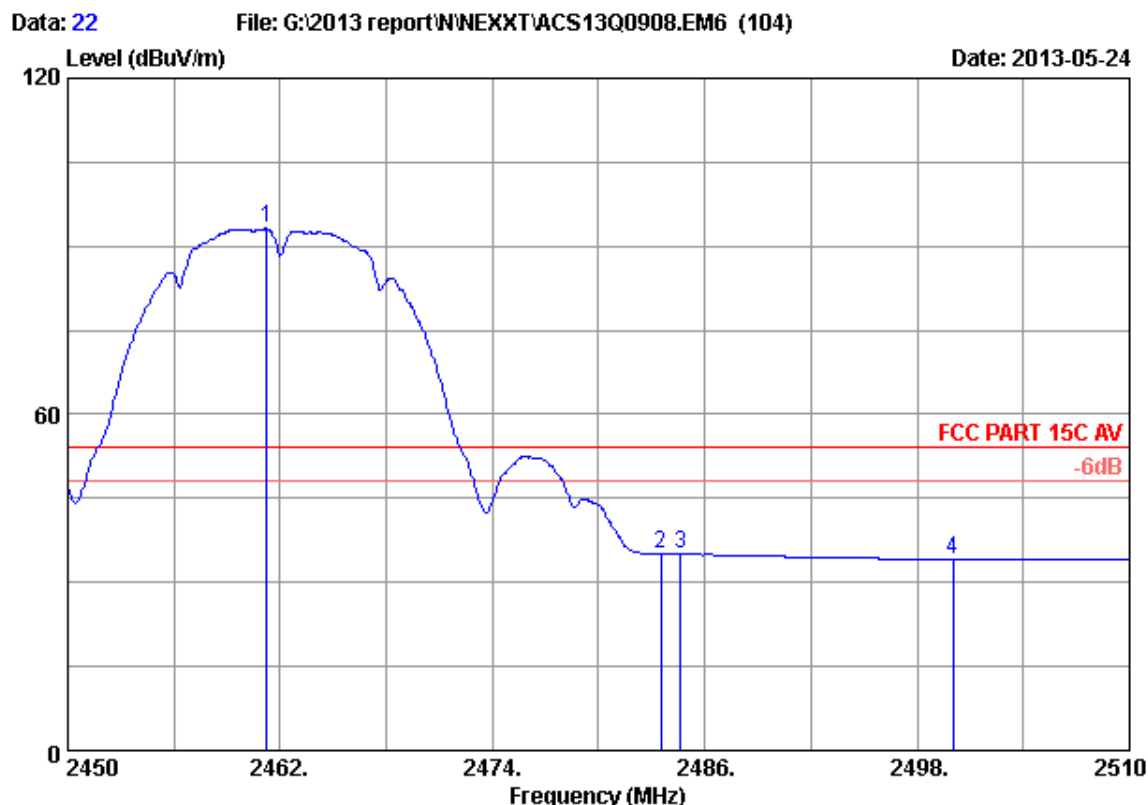
Site no. : 3m Chamber Data no. : 21  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2460.500	27.15	6.12	35.92	99.49	96.84	74.00	-22.84	Peak
2	2483.500	27.29	6.16	35.92	48.54	46.07	74.00	27.93	Peak
3	2493.200	27.36	6.18	35.92	50.72	48.34	74.00	25.66	Peak
4	2500.000	27.40	6.19	35.93	47.96	45.62	74.00	28.38	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.



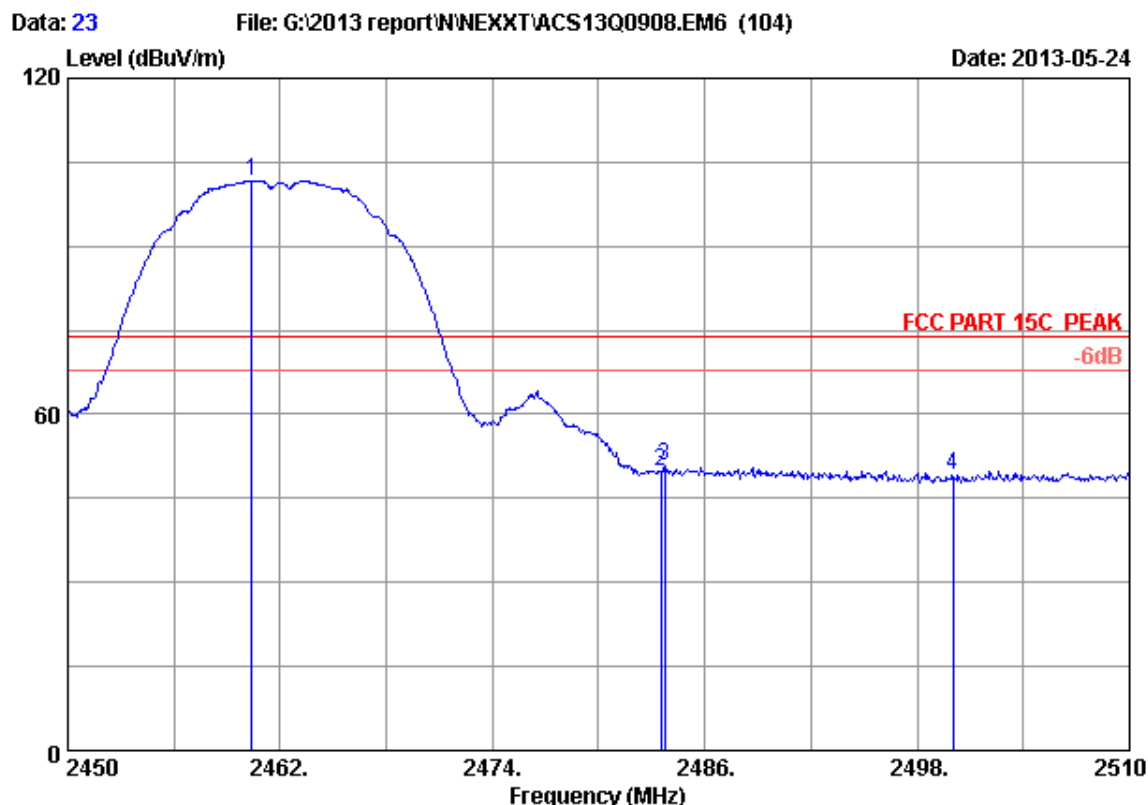


Site no. : 3m Chamber Data no. : 22  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2461.220	27.15	6.12	35.92	95.77	93.12	54.00	-39.12	Average
2	2483.500	27.29	6.16	35.92	37.45	34.98	54.00	19.02	Average
3	2484.620	27.30	6.16	35.92	37.54	35.08	54.00	18.92	Average
4	2500.000	27.40	6.19	35.93	36.38	34.04	54.00	19.96	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.

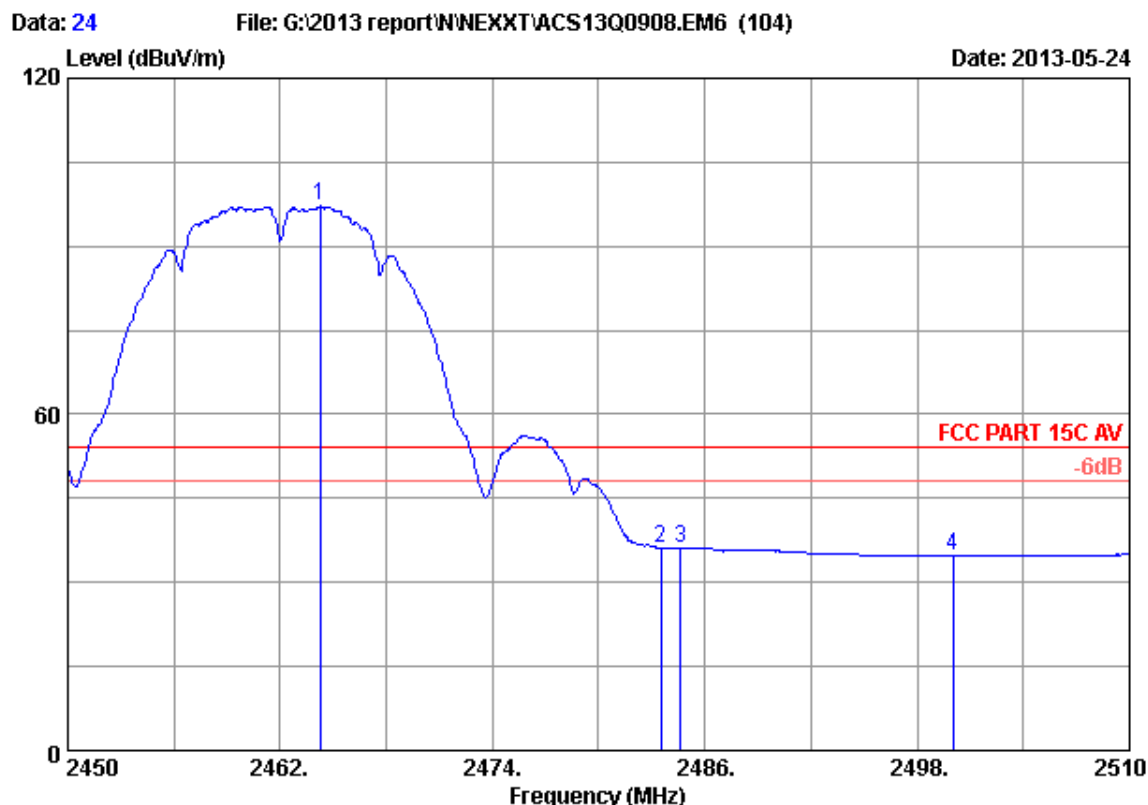


Site no. : 3m Chamber Data no. : 23  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2460.380	27.15	6.12	35.92	104.42	101.77	74.00	-27.77	Peak
2	2483.500	27.29	6.16	35.92	52.14	49.67	74.00	24.33	Peak
3	2483.720	27.30	6.16	35.92	53.19	50.73	74.00	23.27	Peak
4	2500.000	27.40	6.19	35.93	51.41	49.07	74.00	24.93	Peak

**Remarks:**

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

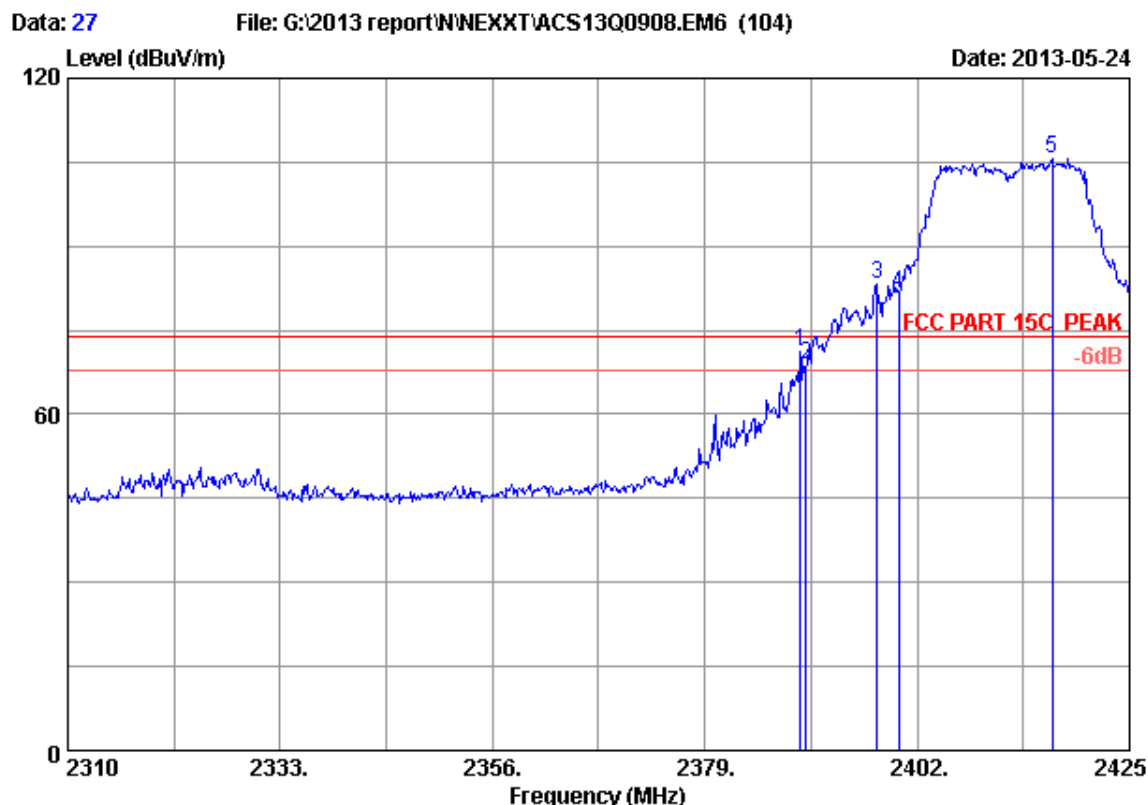


Site no. : 3m Chamber Data no. : 24  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11b CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2464.280	27.17	6.13	35.92	99.73	97.11	54.00	-43.11	Average
2	2483.500	27.29	6.16	35.92	38.56	36.09	54.00	17.91	Average
3	2484.620	27.30	6.16	35.92	38.72	36.26	54.00	17.74	Average
4	2500.000	27.40	6.19	35.93	37.02	34.68	54.00	19.32	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.

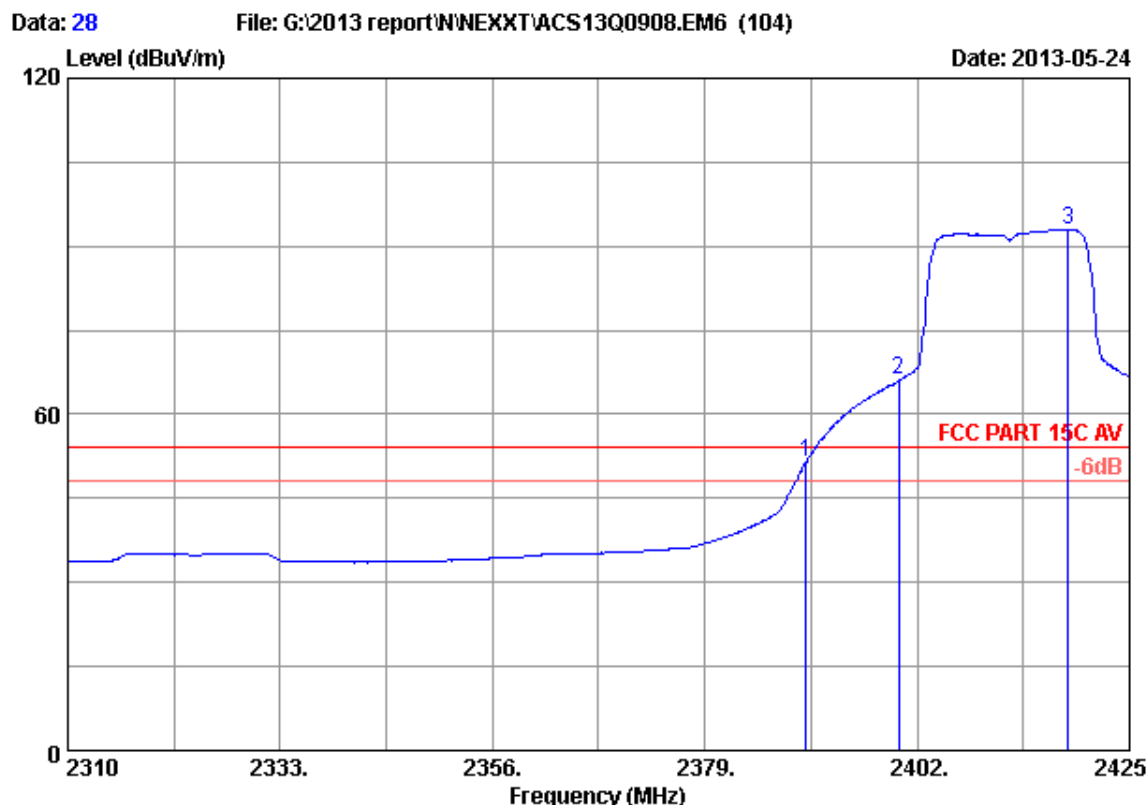


Site no. : 3m Chamber Data no. : 27  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH 1 2412MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2389.350	26.69	6.00	35.92	74.41	71.18	74.00	2.82	Peak
2	2390.000	26.70	6.00	35.92	71.91	68.69	74.00	5.31	Peak
3	2397.630	26.74	6.01	35.92	86.46	83.29	74.00	-9.29	Peak
4	2400.000	26.76	6.02	35.92	84.54	81.40	74.00	-7.40	Peak
5	2416.605	26.87	6.05	35.92	108.68	105.68	74.00	-31.68	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.

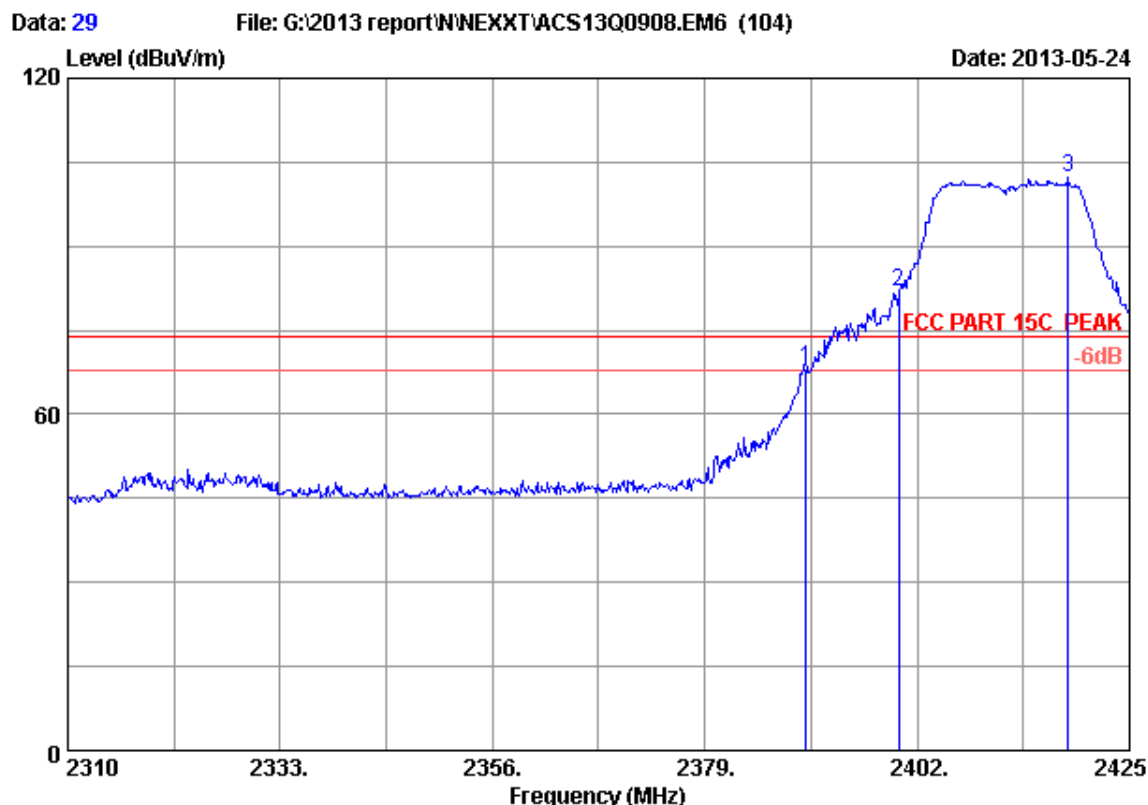


Site no. : 3m Chamber Data no. : 28  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
EUT : 3G Wireless N Nano Router  
Power supply : DC 5V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11g CH 1 2412MHz Tx  
M/N : ARNPR154U1  
:

	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	26.70	6.00	35.92	54.81	51.59	54.00	2.41	Average
2	2400.000	26.76	6.02	35.92	69.20	66.06	54.00	-12.06	Average
3	2418.330	26.88	6.05	35.92	95.88	92.89	54.00	-38.89	Average

**Remarks:**

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

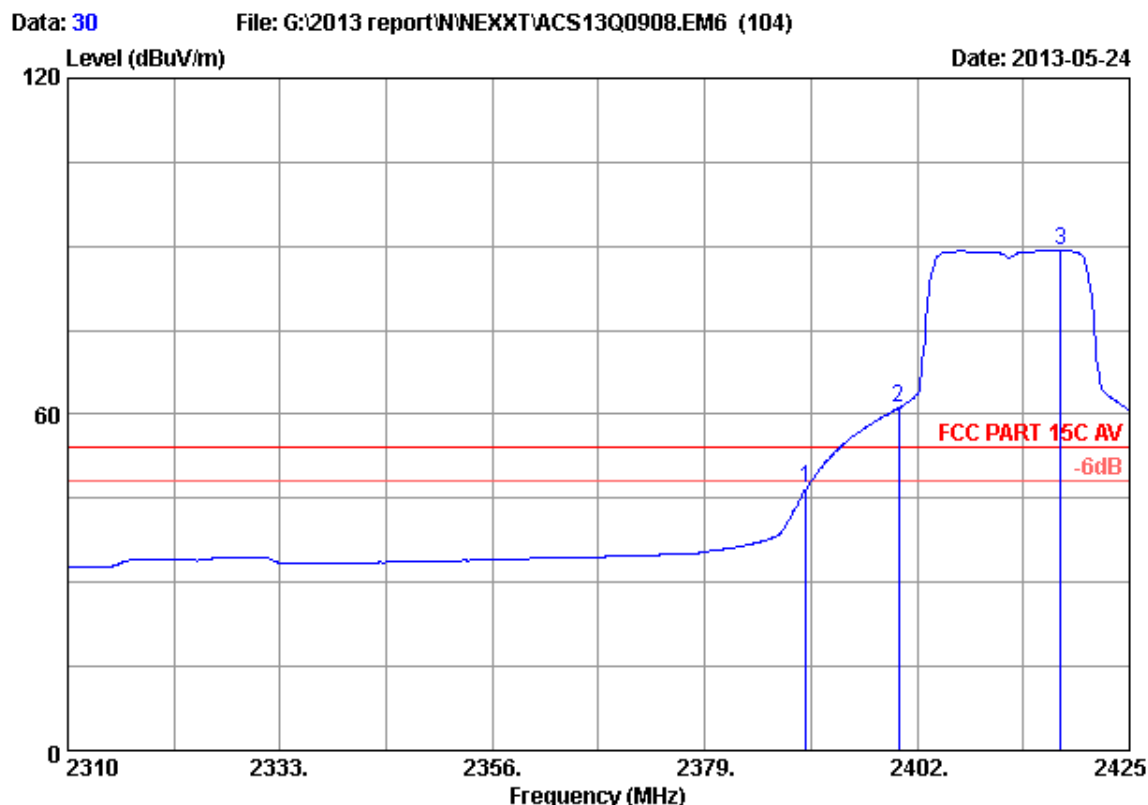


Site no. : 3m Chamber Data no. : 29  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
EUT : 3G Wireless N Nano Router  
Power supply : DC 5V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11g CH 1 2412MHz Tx  
M/N : ARNPR154U1  
:

	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	26.70	6.00	35.92	71.57	68.35	74.00	5.65	Peak
2	2400.000	26.76	6.02	35.92	85.06	81.92	74.00	-7.92	Peak
3	2418.330	26.88	6.05	35.92	105.39	102.40	74.00	-28.40	Peak

**Remarks:**

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

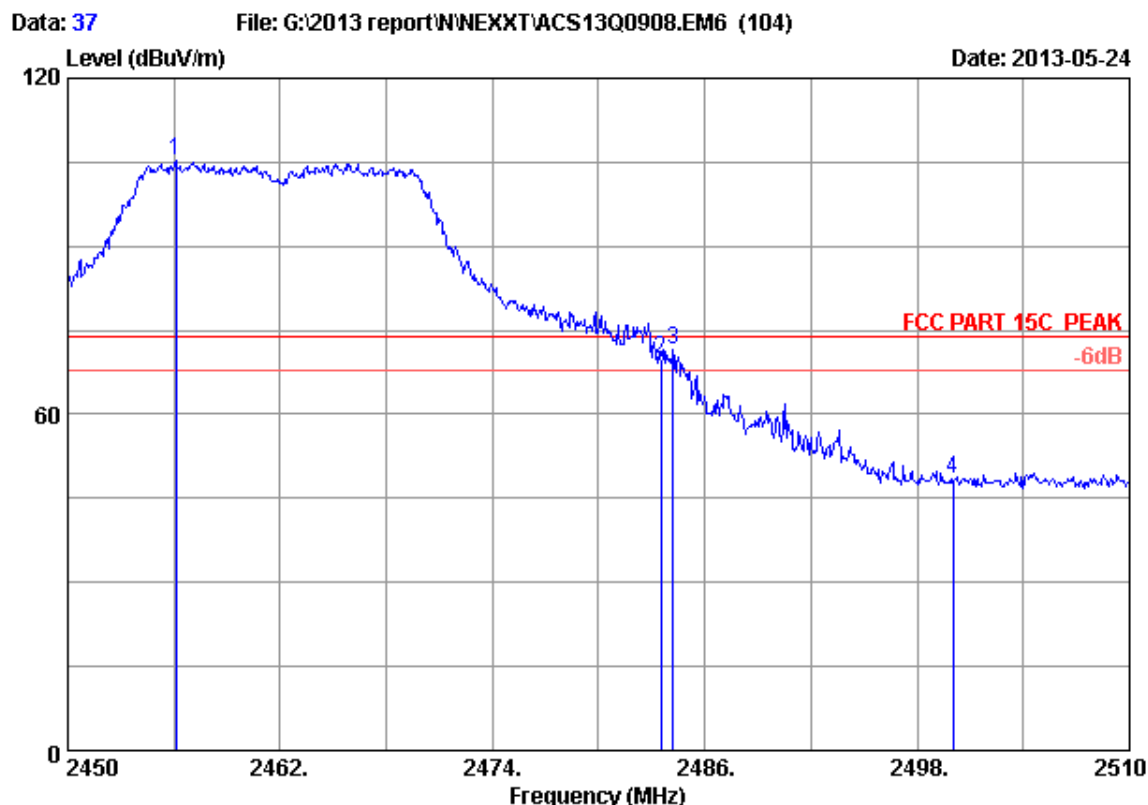


Site no. : 3m Chamber Data no. : 30  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH 1 2412MHz Tx  
 M/N : ARNPR154U1  
 :

	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	26.70	6.00	35.92	50.04	46.82	54.00	7.18	Average
2	2400.000	26.76	6.02	35.92	64.38	61.24	54.00	-7.24	Average
3	2417.525	26.87	6.05	35.92	92.20	89.20	54.00	-35.20	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.



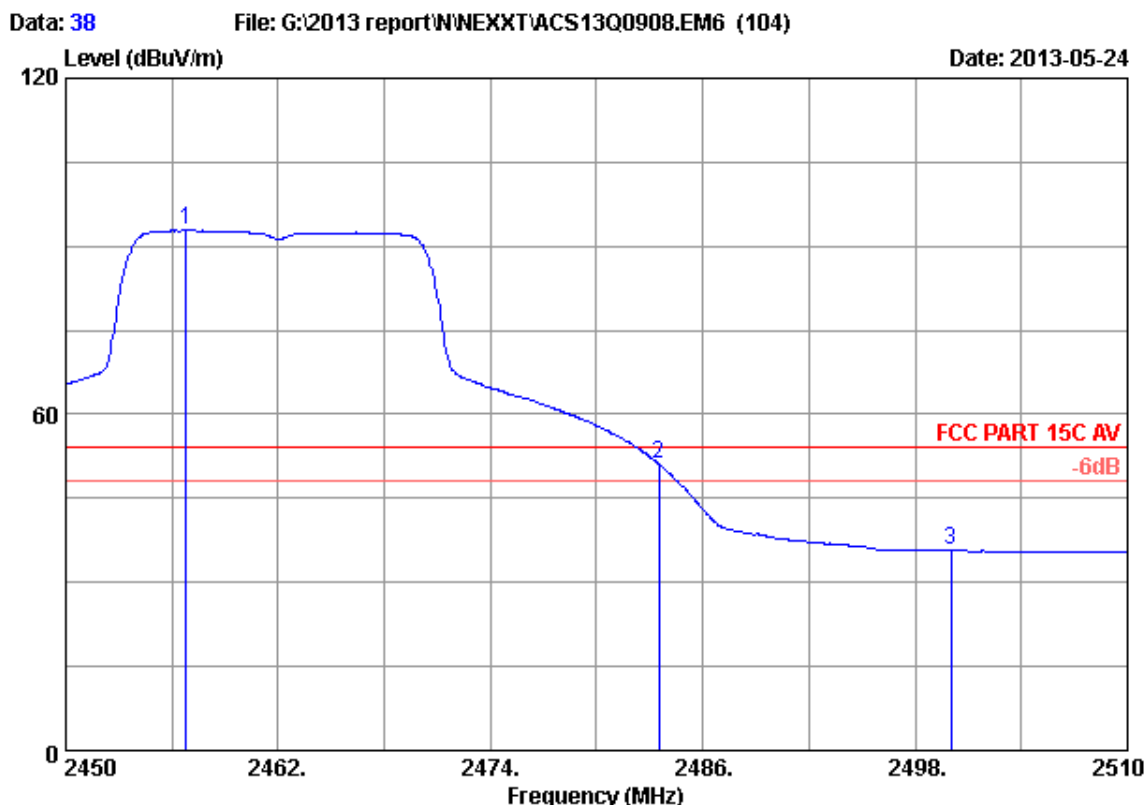
Site no. : 3m Chamber Data no. : 37  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2456.120	27.12	6.11	35.92	107.82	105.13	74.00	-31.13	Peak
2	2483.500	27.29	6.16	35.92	72.42	69.95	74.00	4.05	Peak
3	2484.200	27.30	6.16	35.92	74.00	71.54	74.00	2.46	Peak
4	2500.000	27.40	6.19	35.93	50.78	48.44	74.00	25.56	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.



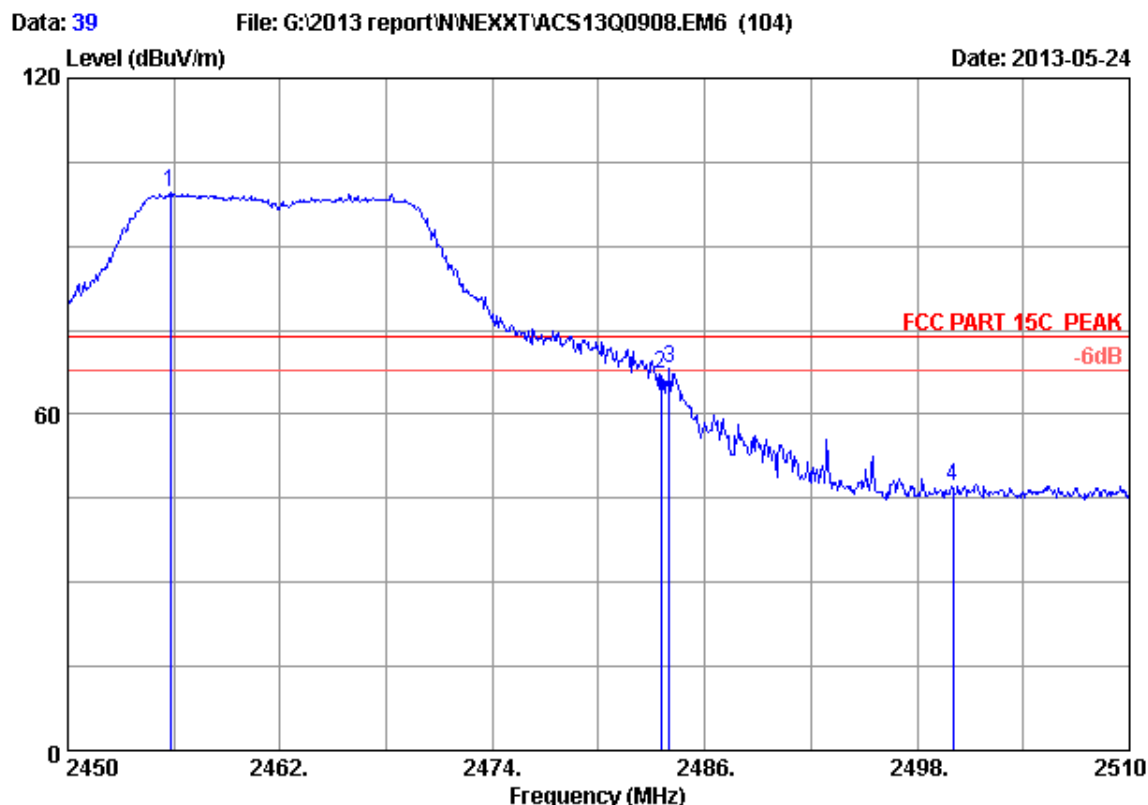


Site no. : 3m Chamber Data no. : 38  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2456.780	27.12	6.11	35.92	95.51	92.82	54.00	-38.82	Average
2	2483.500	27.29	6.16	35.92	53.56	51.09	54.00	2.91	Average
3	2500.000	27.40	6.19	35.93	38.02	35.68	54.00	18.32	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.

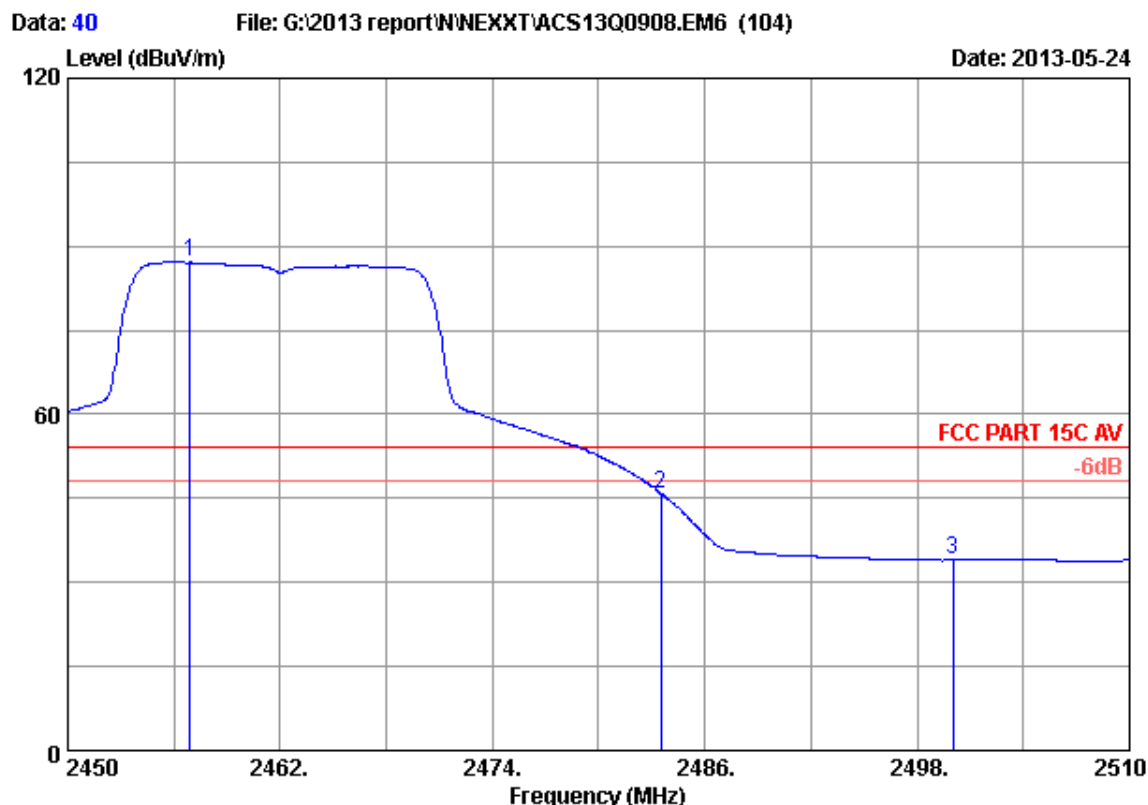


Site no. : 3m Chamber Data no. : 39  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
EUT : 3G Wireless N Nano Router  
Power supply : DC 5V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11g CH 11 2462MHz Tx  
M/N : ARNPR154U1  
:

	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	2455.820	27.12	6.11	35.92	102.34	99.65	74.00	-25.65	Peak
2	2483.500	27.29	6.16	35.92	69.59	67.12	74.00	6.88	Peak
3	2484.020	27.30	6.16	35.92	70.55	68.09	74.00	5.91	Peak
4	2500.000	27.40	6.19	35.93	49.40	47.06	74.00	26.94	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.

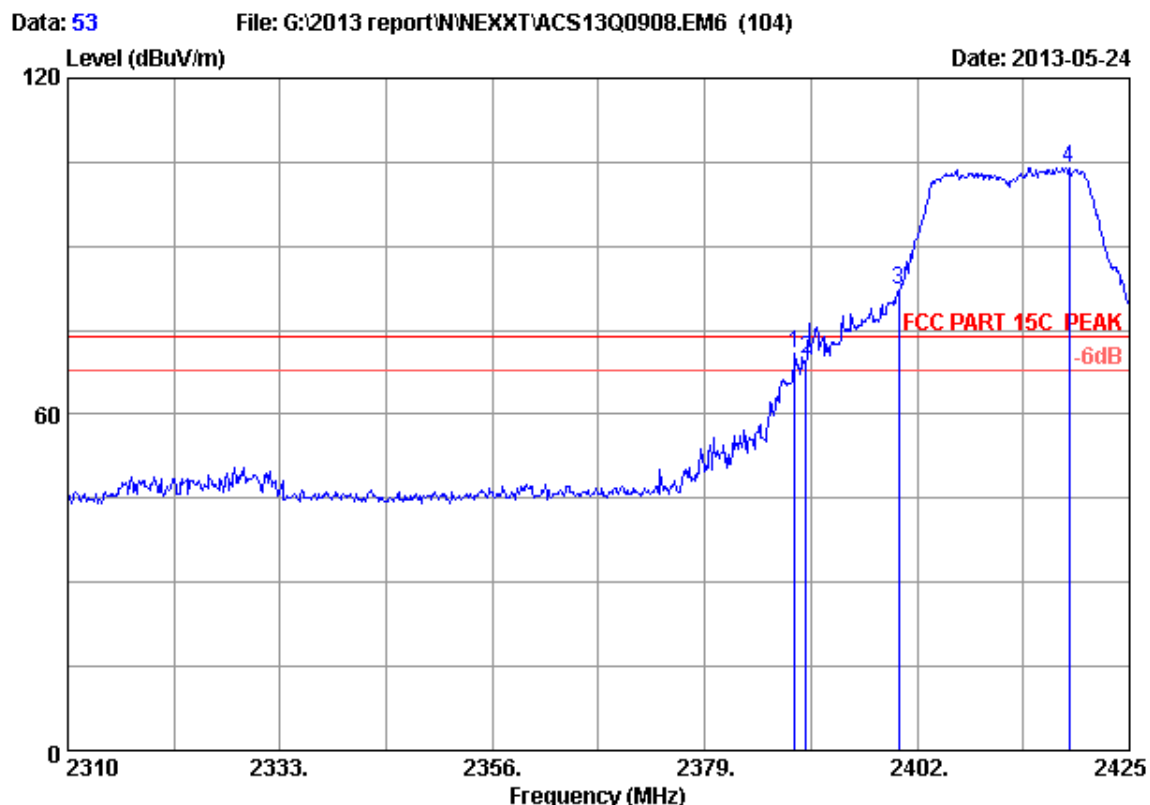


Site no. : 3m Chamber Data no. : 40  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11g CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2456.900	27.12	6.11	35.92	89.80	87.11	54.00	-33.11	Average
2	2483.500	27.29	6.16	35.92	48.41	45.94	54.00	8.06	Average
3	2500.000	27.40	6.19	35.93	36.31	33.97	54.00	20.03	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.

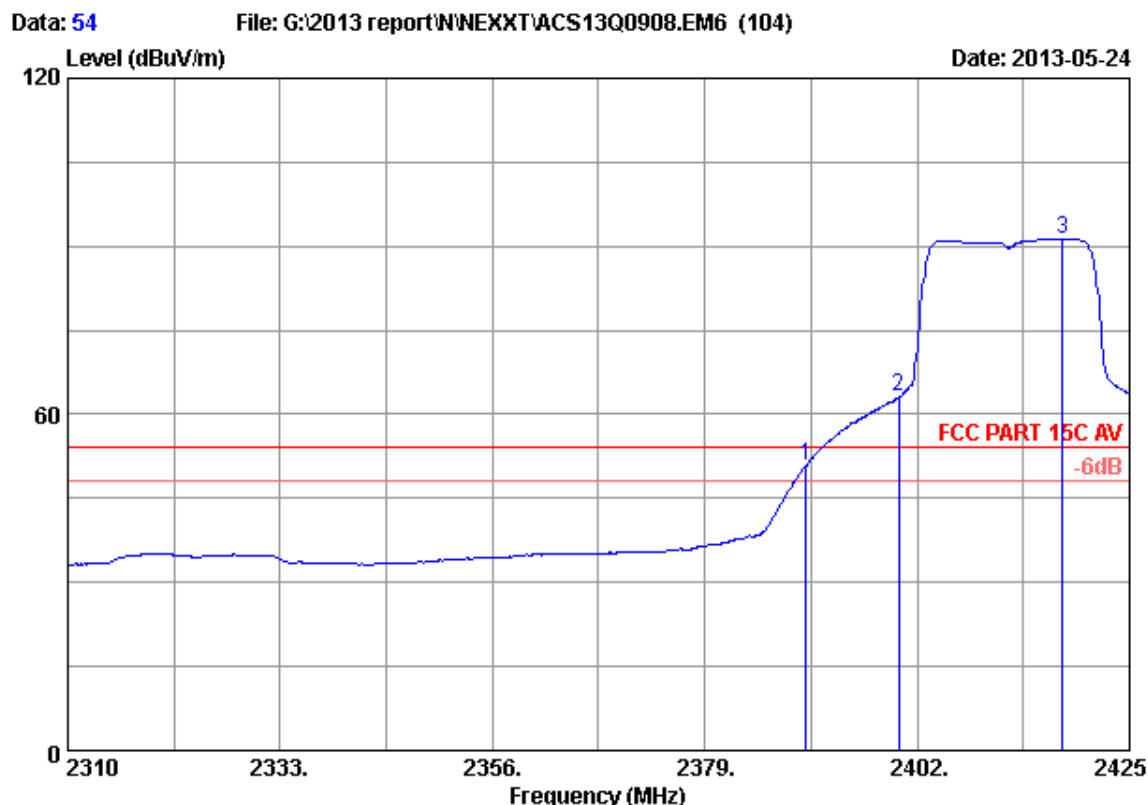


Site no. : 3m Chamber Data no. : 53  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
EUT : 3G Wireless N Nano Router  
Power supply : DC 5V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx  
M/N : ARNPR154U1  
:

	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 2388.775	26.69	6.00	35.92	73.99	70.76	74.00	3.24	Peak	
2 2390.000	26.70	6.00	35.92	73.21	69.99	74.00	4.01	Peak	
3 2400.000	26.76	6.02	35.92	85.30	82.16	74.00	-8.16	Peak	
4 2418.445	26.88	6.05	35.92	107.08	104.09	74.00	-30.09	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.

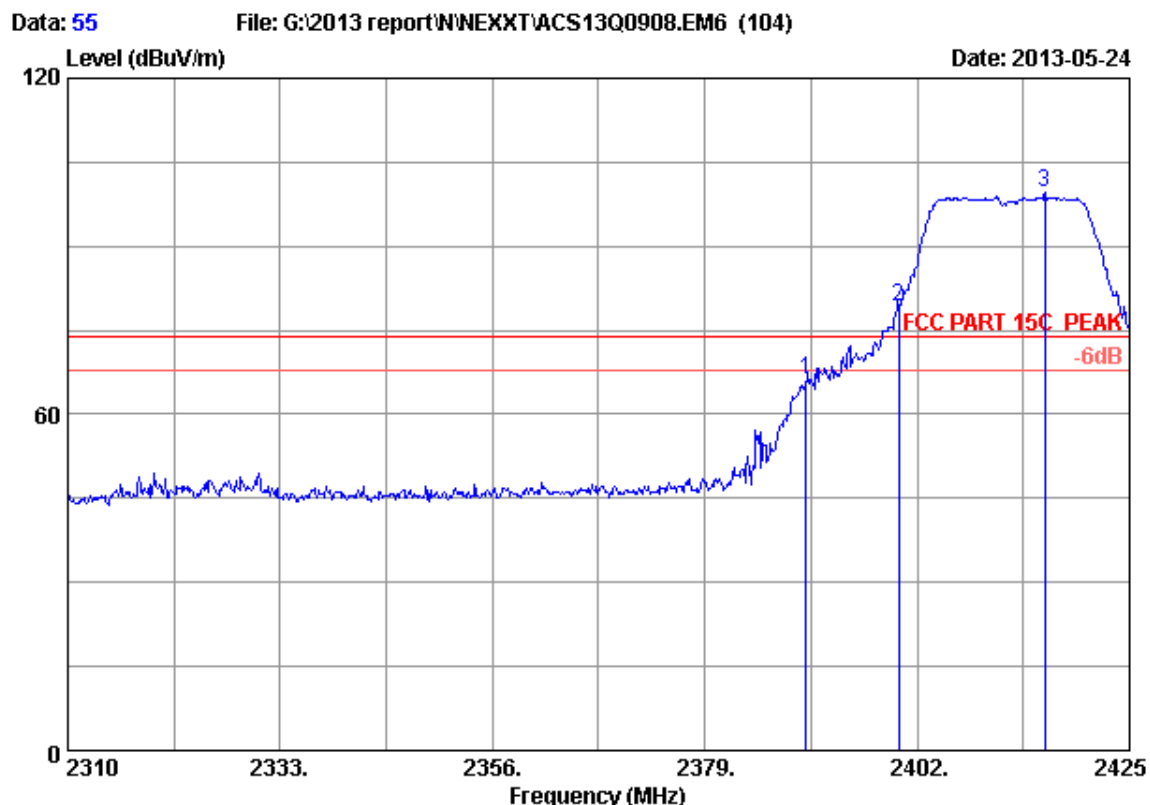


Site no. : 3m Chamber Data no. : 54  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C AV  
Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
EUT : 3G Wireless N Nano Router  
Power supply : DC 5V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx  
M/N : ARNPR154U1  
:

	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	26.70	6.00	35.92	54.19	50.97	54.00	3.03	Average
2	2400.000	26.76	6.02	35.92	66.23	63.09	54.00	-9.09	Average
3	2417.755	26.87	6.05	35.92	94.36	91.36	54.00	-37.36	Average

**Remarks:**

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

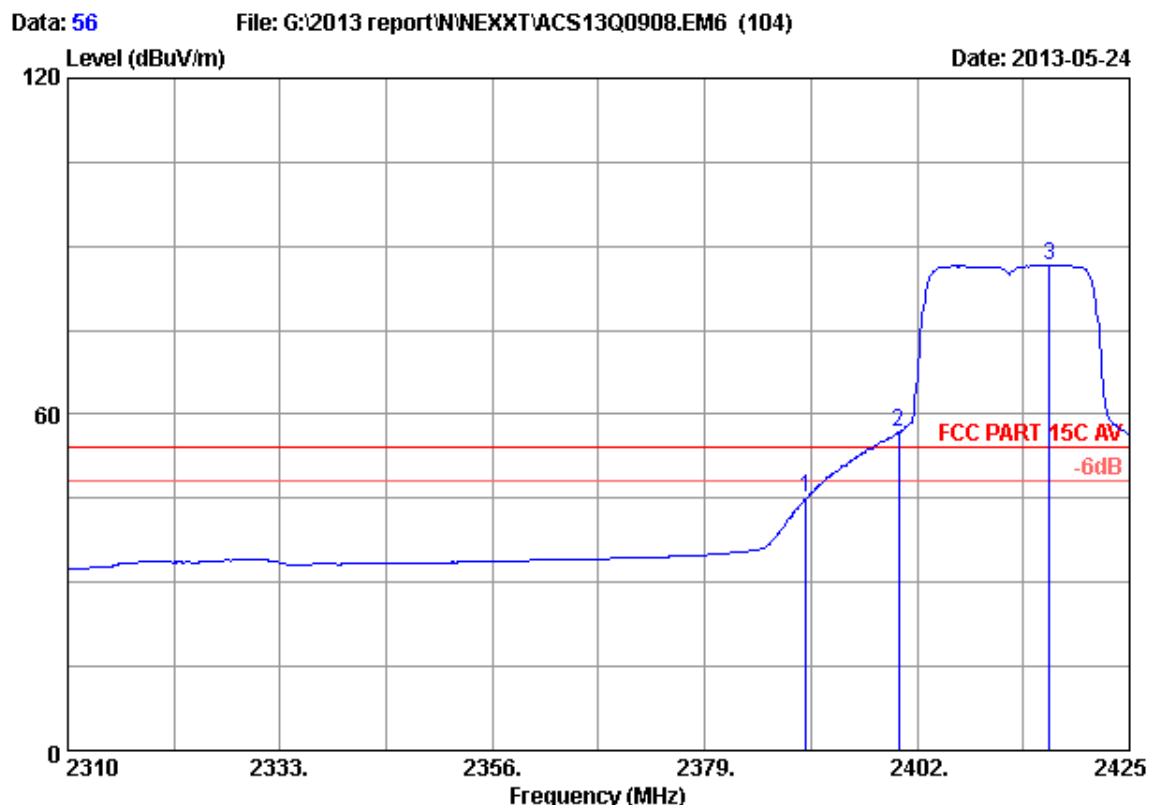


Site no. : 3m Chamber Data no. : 55  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx  
 M/N : ARNPR154U1  
 :

	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	26.70	6.00	35.92	69.49	66.27	74.00	7.73	Peak
2	2400.000	26.76	6.02	35.92	82.52	79.38	74.00	-5.38	Peak
3	2415.800	26.86	6.04	35.92	102.62	99.60	74.00	-25.60	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.

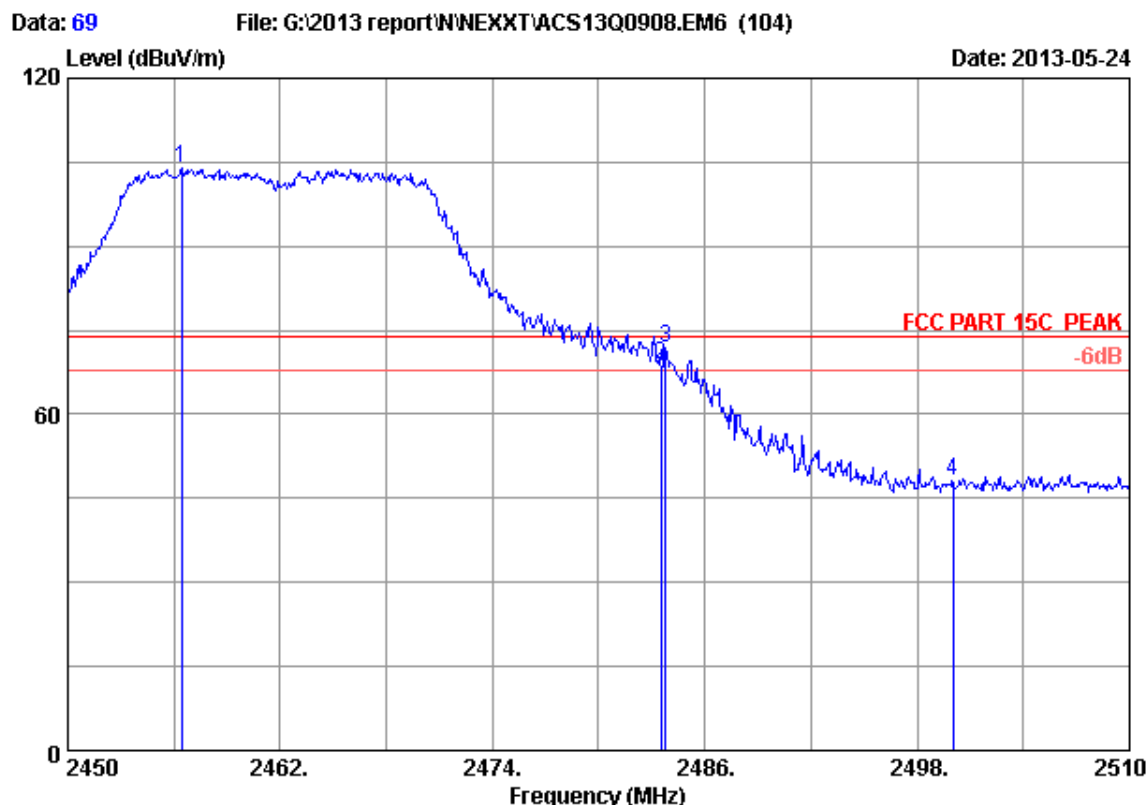


Site no. : 3m Chamber Data no. : 56  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT20 CH 1 2412MHz Tx  
 M/N : ARNPR154U1  
 :

	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	26.70	6.00	35.92	48.27	45.05	54.00	8.95	Average
2	2400.000	26.76	6.02	35.92	59.96	56.82	54.00	-2.82	Average
3	2416.375	26.86	6.04	35.92	89.65	86.63	54.00	-32.63	Average

**Remarks:**

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



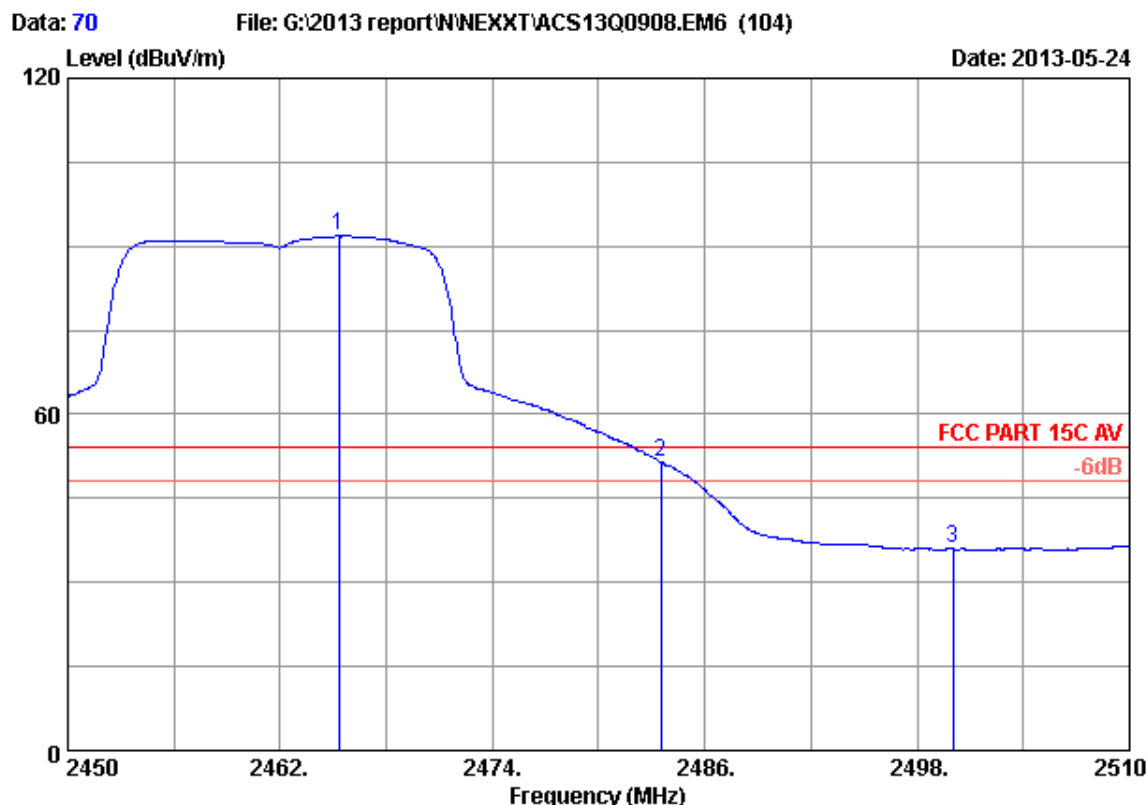
Site no. : 3m Chamber Data no. : 69  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2456.420	27.12	6.11	35.92	106.69	104.00	74.00	-30.00	Peak
2	2483.500	27.29	6.16	35.92	71.47	69.00	74.00	5.00	Peak
3	2483.780	27.30	6.16	35.92	74.39	71.93	74.00	2.07	Peak
4	2500.000	27.40	6.19	35.93	50.47	48.13	74.00	25.87	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.



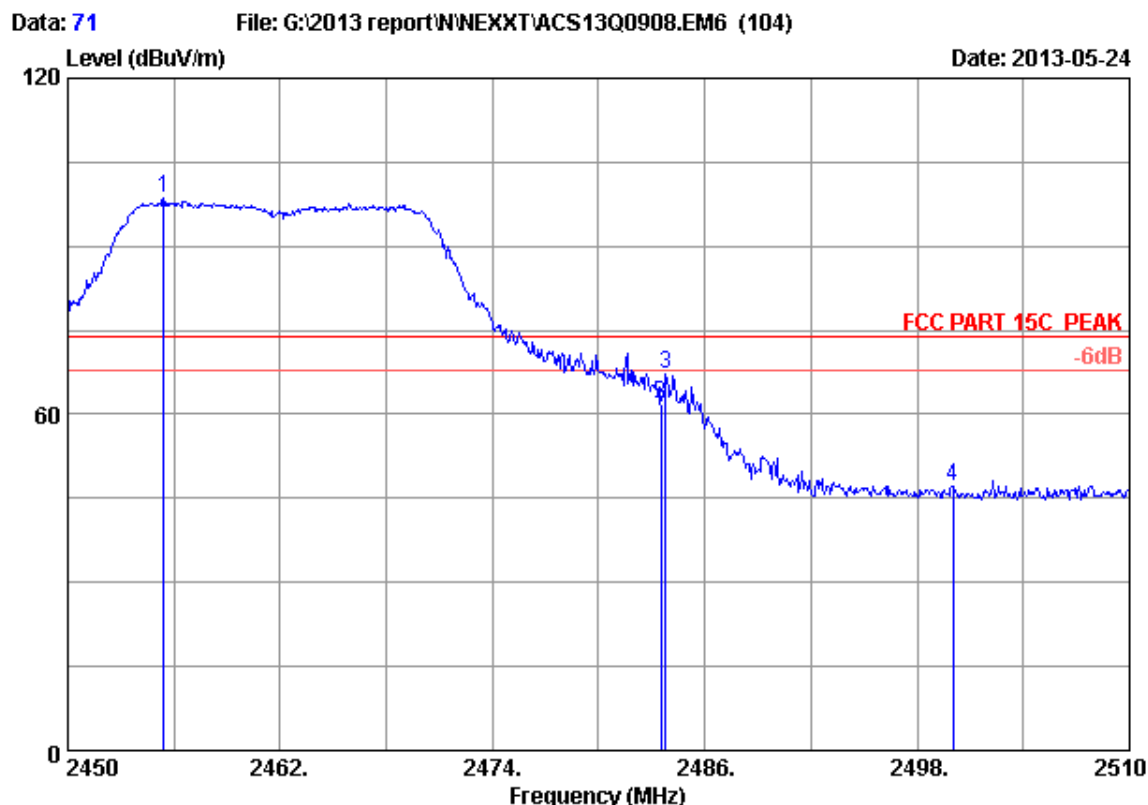


Site no. : 3m Chamber Data no. : 70  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2465.300	27.18	6.13	35.92	94.42	91.81	54.00	-37.81	Average
2	2483.500	27.29	6.16	35.92	54.03	51.56	54.00	2.44	Average
3	2500.000	27.40	6.19	35.93	38.32	35.98	54.00	18.02	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.

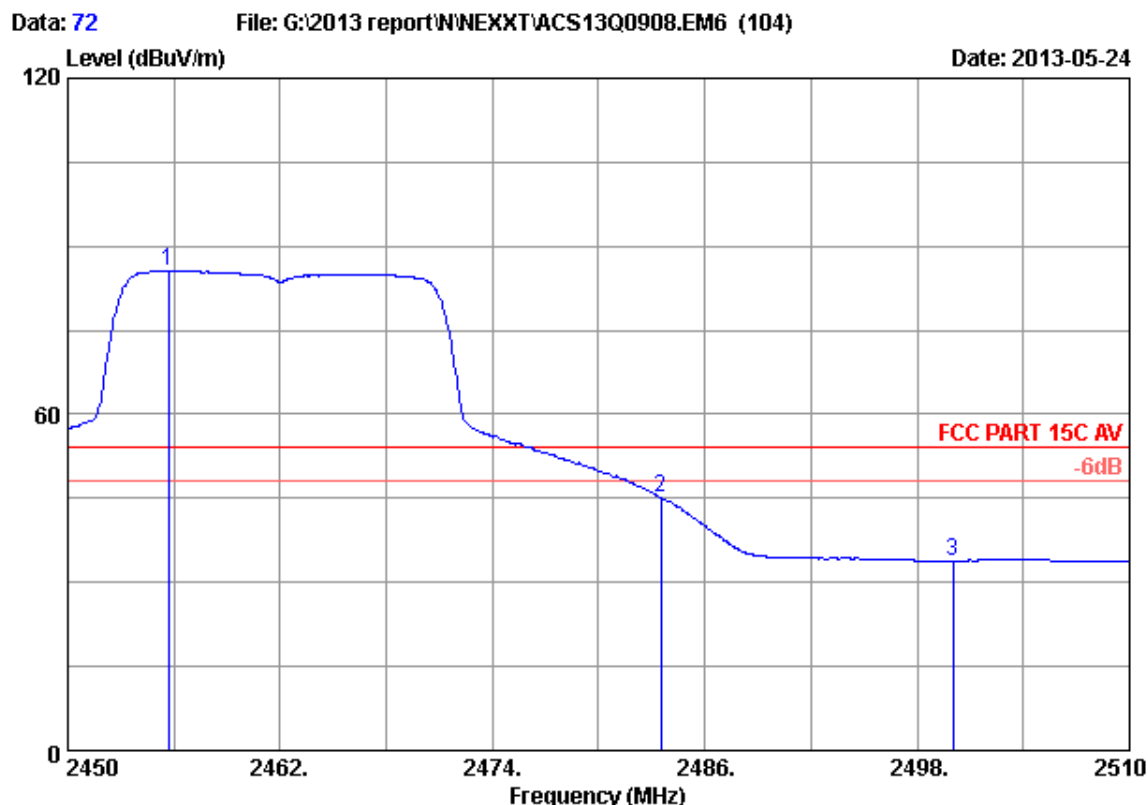


Site no. : 3m Chamber Data no. : 71  
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
EUT : 3G Wireless N Nano Router  
Power supply : DC 5V From Adapter Input AC 120V/60Hz  
Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx  
M/N : ARNPR154U1  
:

	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	2455.400	27.11	6.11	35.92	101.24	98.54	74.00	-24.54	Peak
2	2483.500	27.29	6.16	35.92	64.38	61.91	74.00	12.09	Peak
3	2483.780	27.30	6.16	35.92	69.58	67.12	74.00	6.88	Peak
4	2500.000	27.40	6.19	35.93	49.48	47.14	74.00	26.86	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.

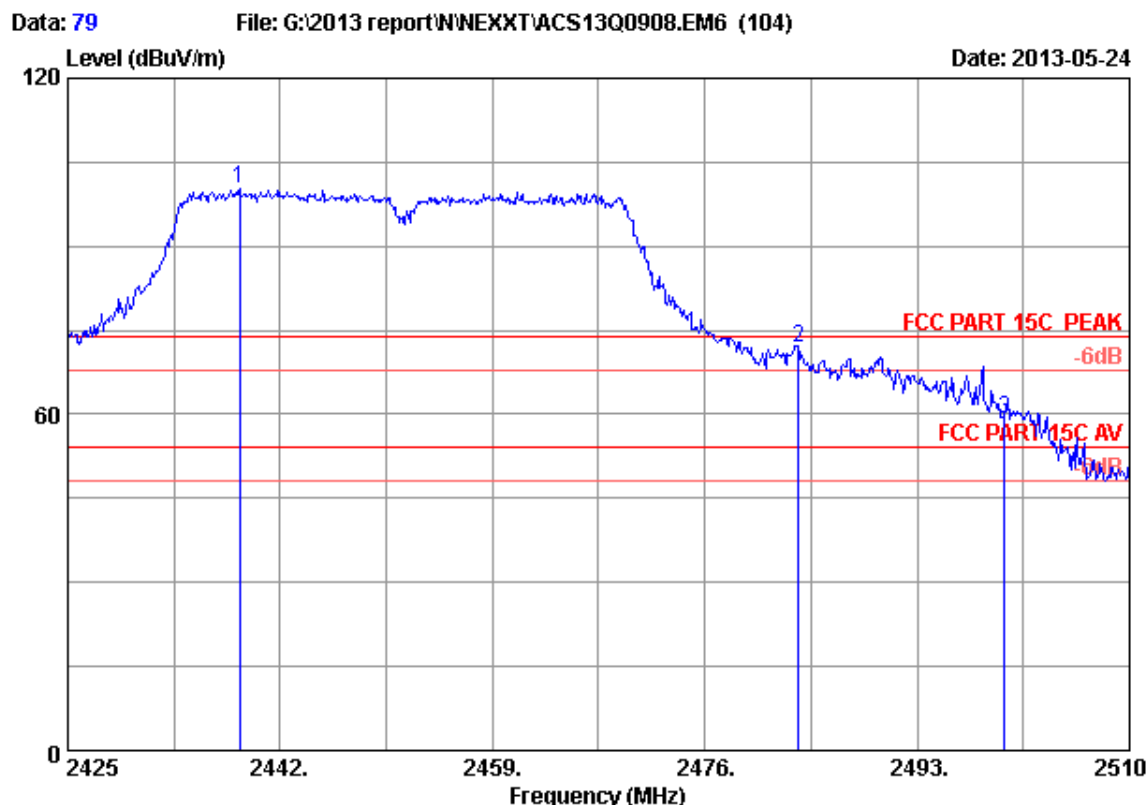


Site no. : 3m Chamber Data no. : 72  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT20 CH 11 2462MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2455.700	27.12	6.11	35.92	88.37	85.68	54.00	-31.68	Average
2	2483.500	27.29	6.16	35.92	47.58	45.11	54.00	8.89	Average
3	2500.000	27.40	6.19	35.93	36.21	33.87	54.00	20.13	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.

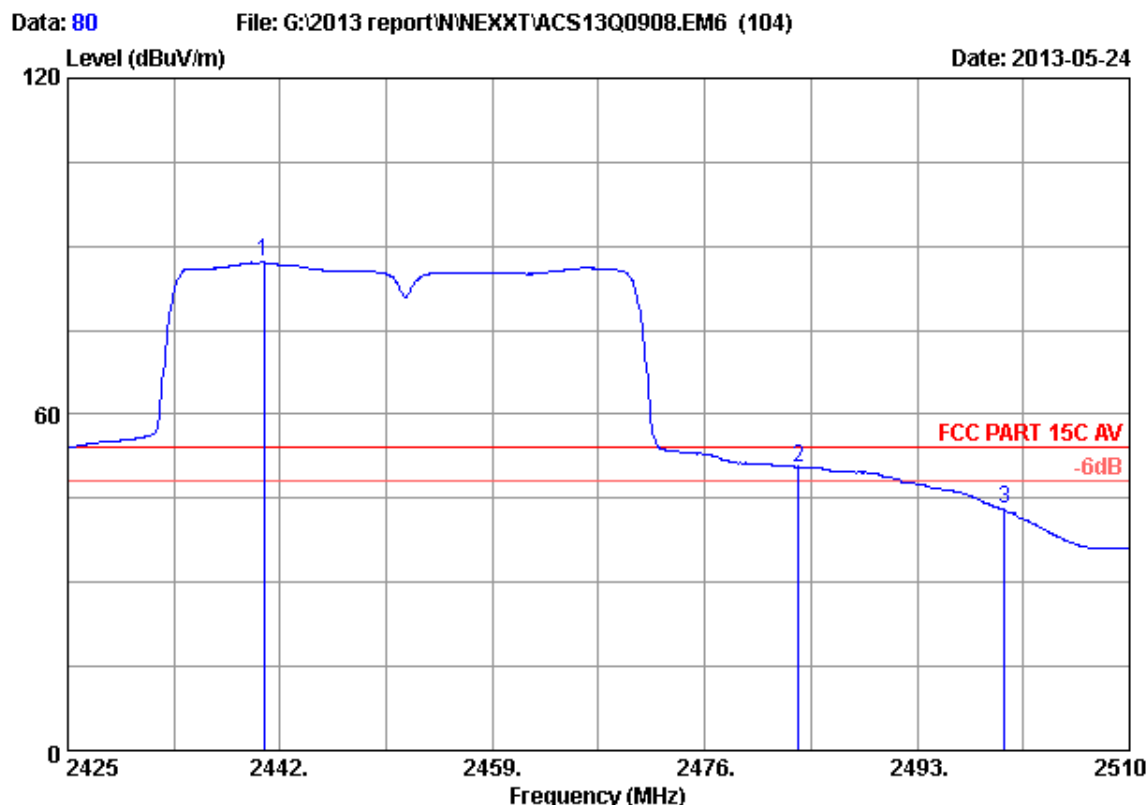


Site no. : 3m Chamber Data no. : 79  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2438.770	27.01	6.08	35.92	102.97	100.14	74.00	-26.14	Peak
2	2483.500	27.29	6.16	35.92	74.33	71.86	74.00	2.14	Peak
3	2500.000	27.40	6.19	35.93	61.57	59.23	74.00	14.77	Peak

**Remarks:**

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

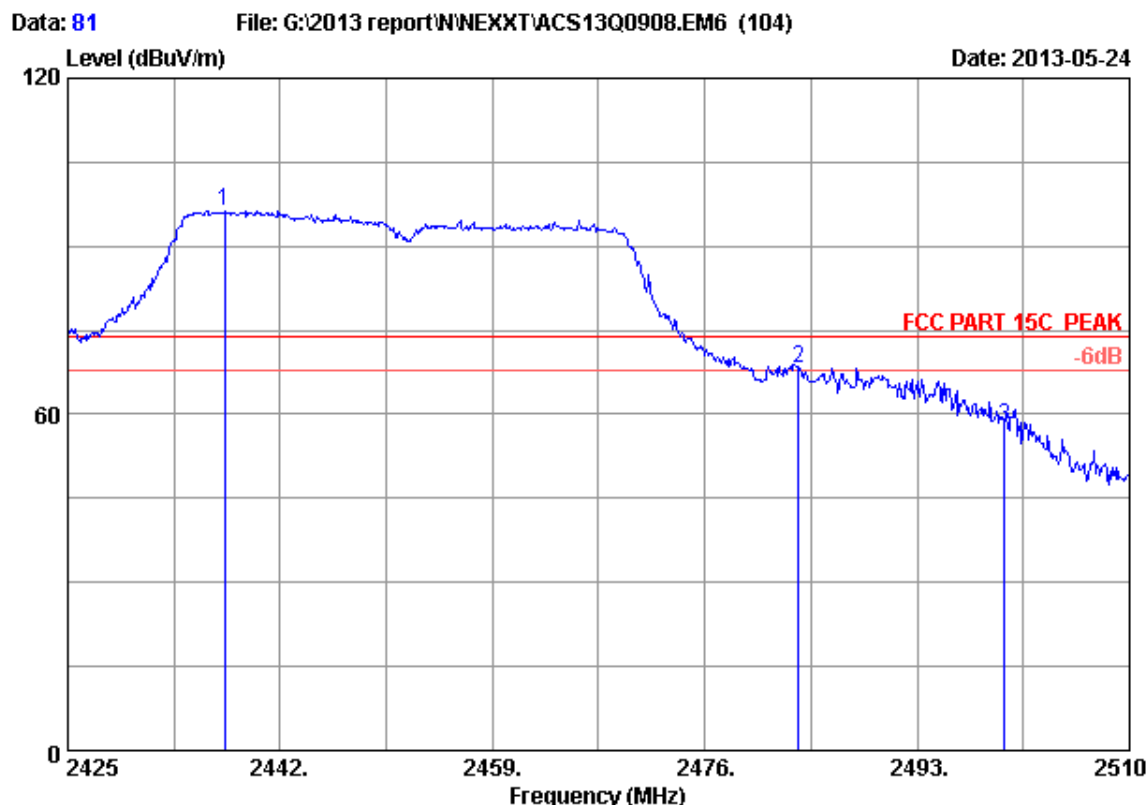


Site no. : 3m Chamber Data no. : 80  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2440.725	27.02	6.09	35.92	89.95	87.14	54.00	-33.14	Average
2	2483.500	27.29	6.16	35.92	52.98	50.51	54.00	3.49	Average
3	2500.000	27.40	6.19	35.93	45.32	42.98	54.00	11.02	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.

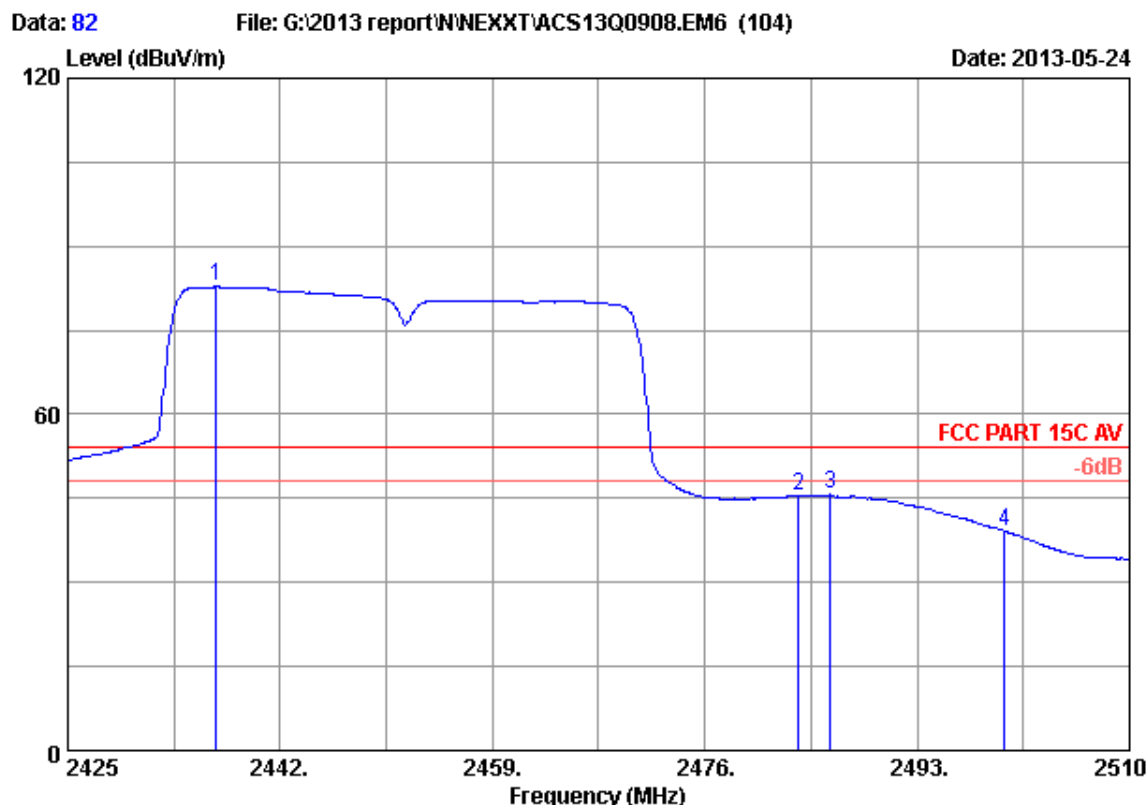


Site no. : 3m Chamber Data no. : 81  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2437.580	27.00	6.08	35.92	99.21	96.37	74.00	-22.37	Peak
2	2483.500	27.29	6.16	35.92	70.75	68.28	74.00	5.72	Peak
3	2500.000	27.40	6.19	35.93	60.07	57.73	74.00	16.27	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.

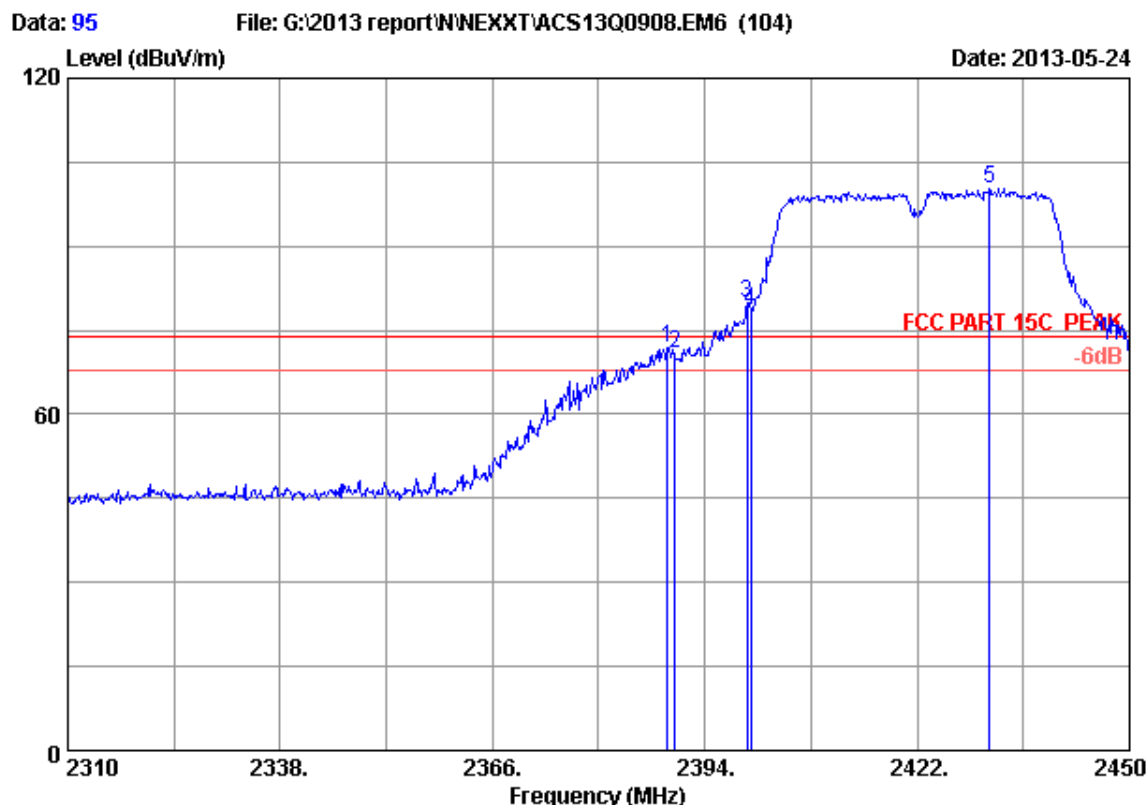


Site no. : 3m Chamber Data no. : 82  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 7 2452MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2436.900	27.00	6.08	35.92	85.62	82.78	54.00	-28.78	Average
2	2483.500	27.29	6.16	35.92	47.98	45.51	54.00	8.49	Average
3	2486.030	27.31	6.16	35.92	48.08	45.63	54.00	8.37	Average
4	2500.000	27.40	6.19	35.93	41.48	39.14	54.00	14.86	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.



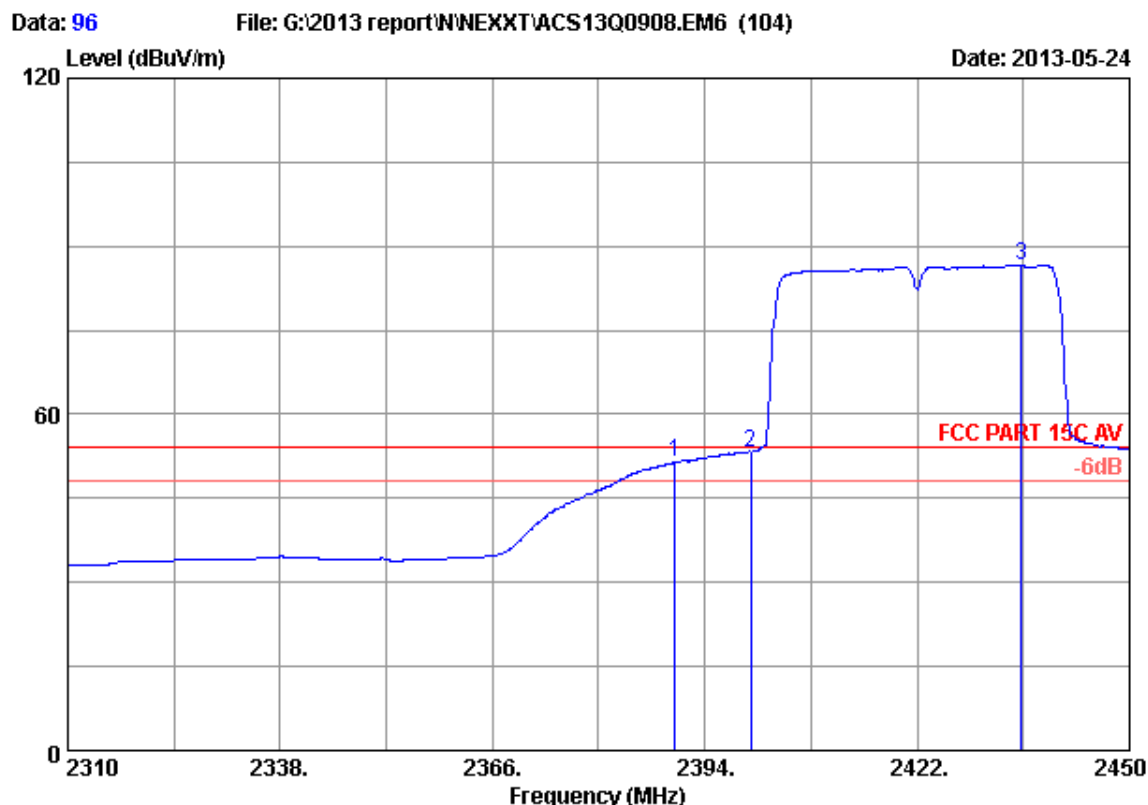
Site no. : 3m Chamber Data no. : 95  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx  
 M/N : ARNPR154U1  
 :

	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 2389.100	26.69	6.00	35.92	75.14	71.91	74.00	2.09	Peak	
2 2390.000	26.70	6.00	35.92	74.03	70.81	74.00	3.19	Peak	
3 2399.600	26.76	6.02	35.92	83.11	79.97	74.00	-5.97	Peak	
4 2400.000	26.76	6.02	35.92	81.59	78.45	74.00	-4.45	Peak	
5 2431.520	26.96	6.07	35.92	103.12	100.23	74.00	-26.23	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.



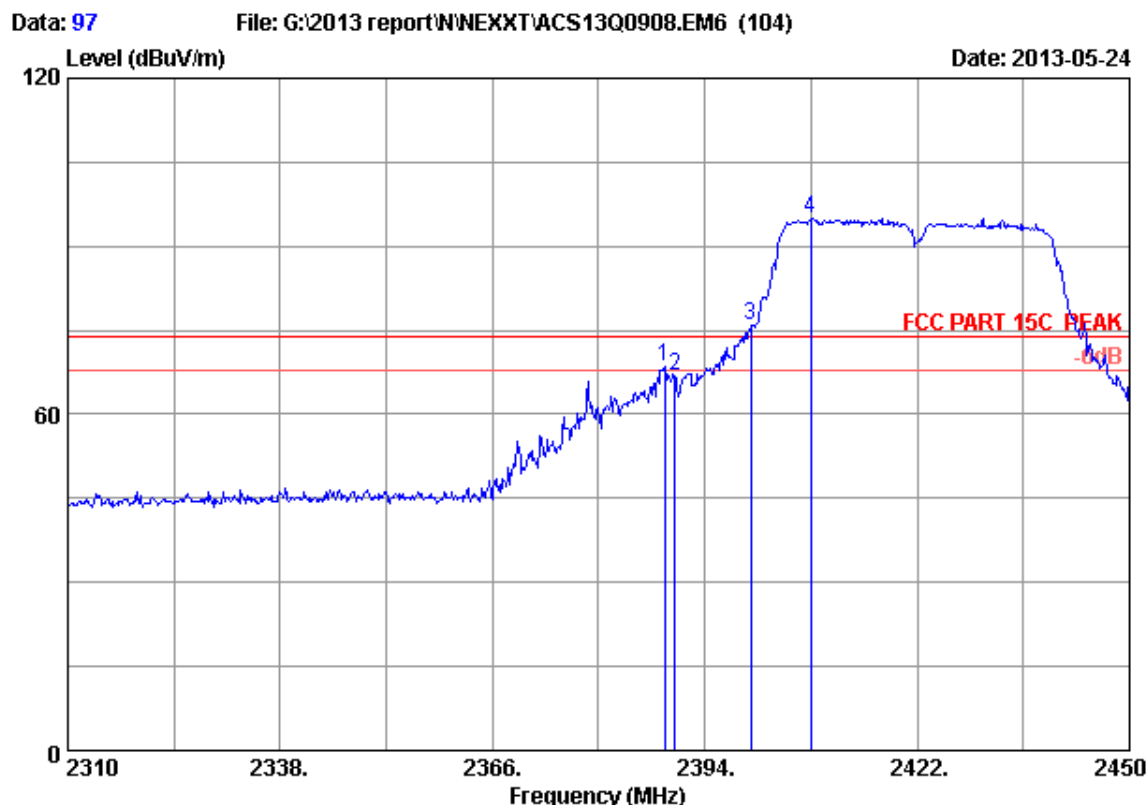


Site no. : 3m Chamber Data no. : 96  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx  
 M/N : ARNPR154U1  
 :

	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	26.70	6.00	35.92	54.59	51.37	54.00	2.63	Average
2	2400.000	26.76	6.02	35.92	56.37	53.23	54.00	0.77	Average
3	2435.720	26.99	6.08	35.92	89.35	86.50	54.00	-32.50	Average

**Remarks:**

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

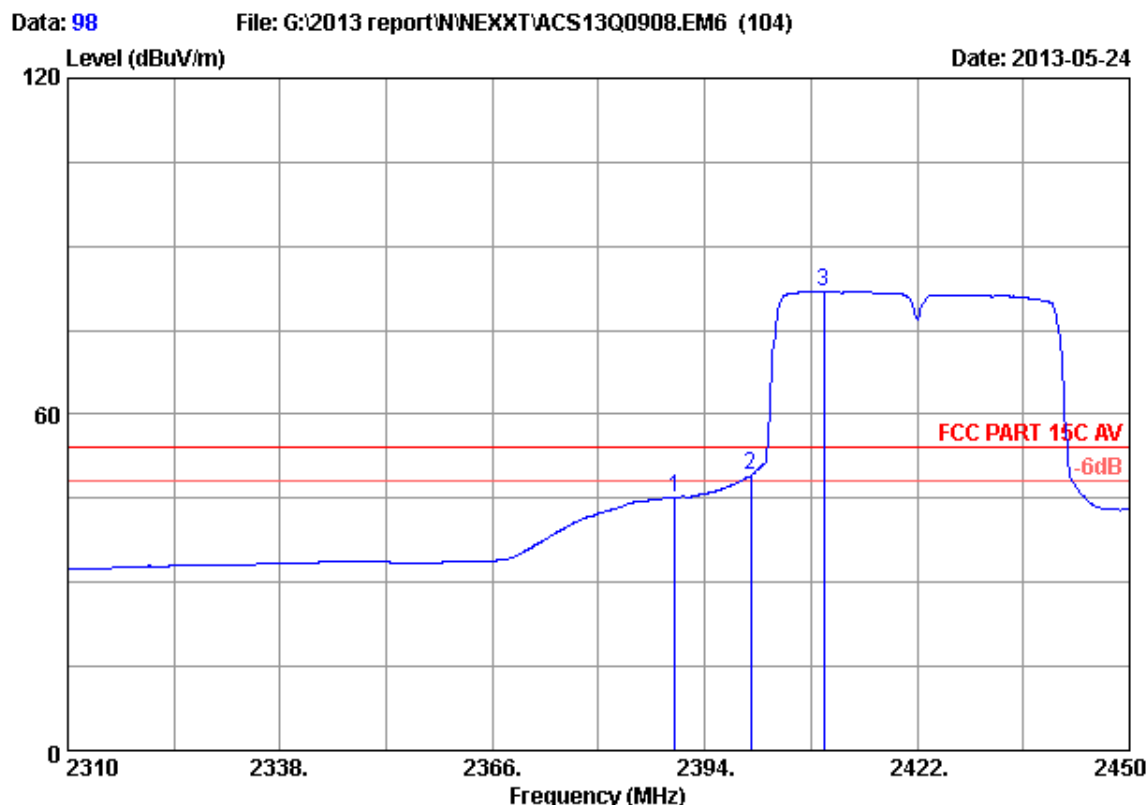


Site no. : 3m Chamber Data no. : 97  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx  
 M/N : ARNPR154U1  
 :

	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	2388.680	26.69	6.00	35.92	71.82	68.59	74.00	5.41	Peak
2	2390.000	26.70	6.00	35.92	69.92	66.70	74.00	7.30	Peak
3	2400.000	26.76	6.02	35.92	78.86	75.72	74.00	-1.72	Peak
4	2408.000	26.81	6.03	35.92	98.09	95.01	74.00	-21.01	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. : 3m Chamber Data no. : 98  
 Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 23°C/54% Engineer : Kevin-Hu  
 EUT : 3G Wireless N Nano Router  
 Power supply : DC 5V From Adapter Input AC 120V/60Hz  
 Test mode : IEEE802.11nHT40 CH 1 2422MHz Tx  
 M/N : ARNPR154U1  
 :

	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	26.70	6.00	35.92	48.40	45.18	54.00	8.82	Average
2	2400.000	26.76	6.02	35.92	52.26	49.12	54.00	4.88	Average
3	2409.680	26.82	6.03	35.92	85.03	81.96	54.00	-27.96	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.

## 7. 6dB Bandwidth Test

### 7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 13	1Year
4.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 13	1 Year

### 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 30KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

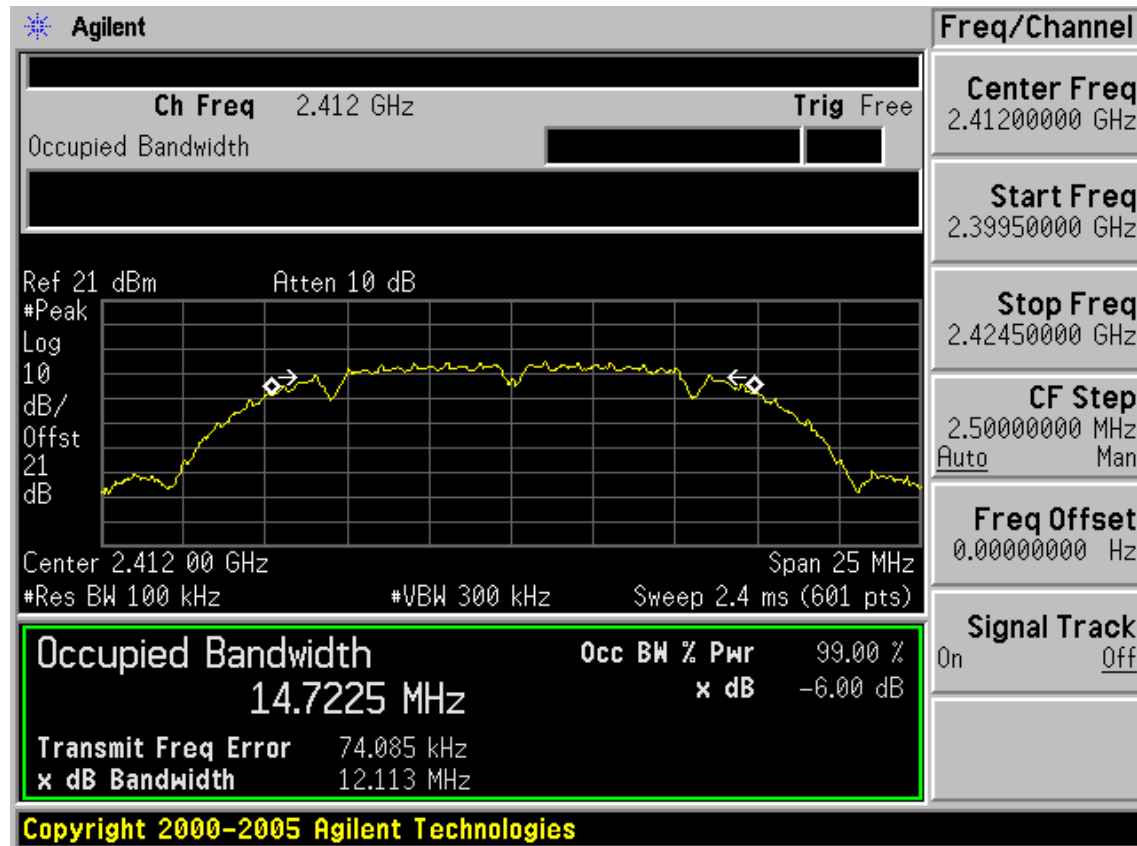
### 7.4. Test Results

EUT: 3G Wireless N Nano Router		
M/N: ARNPE154U1		
Test date: 2013-05-25	Pressure: 101.4±1.0 kpa	Humidity: 53.4±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 21.6±0.6℃

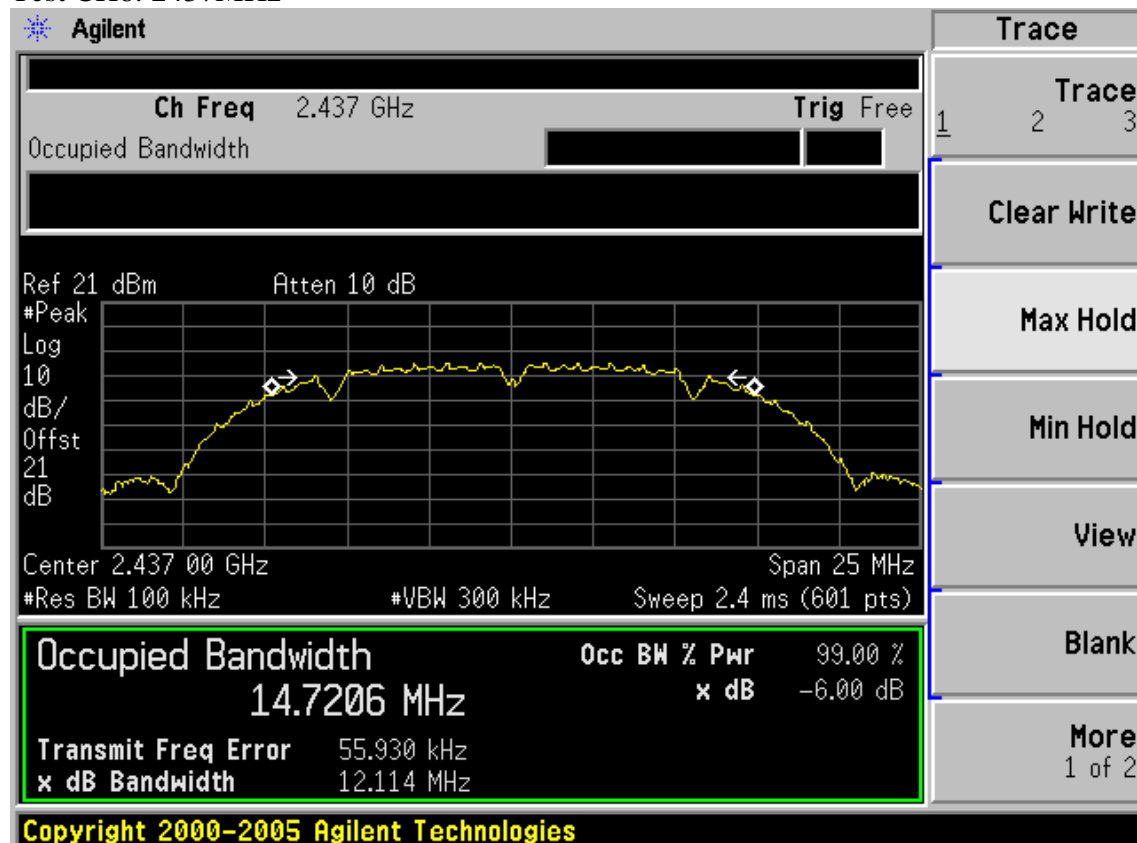
Cable loss: 1 dB		Attenuator loss: 20 dB	Antenna Gain: 0 dBi
Test Mode	CH	6dB bandwidth ( MHz )	Limit ( KHz )
11b	CH1	12.113	>500
	CH6	12.114	>500
	CH11	12.116	>500
11g	CH1	16.539	>500
	CH6	16.532	>500
	CH11	16.562	>500
11n HT20	CH1	17.665	>500
	CH6	17.647	>500
	CH11	17.653	>500
11n HT40	CH1	35.739	>500
	CH4	35.940	>500
	CH7	35.920	>500
Conclusion : PASS			

Test Mode: IEEE 802.11b TX

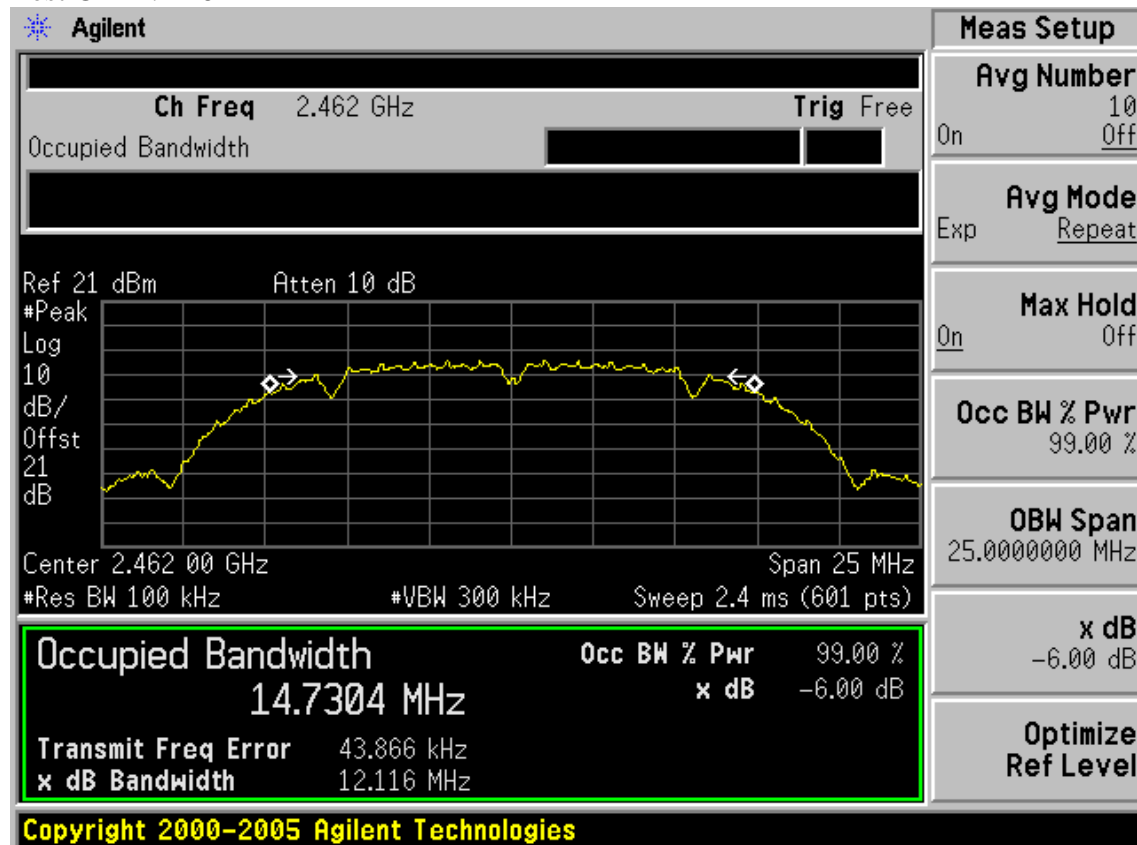
Test CH1: 2412MHz



Test CH6: 2437MHz

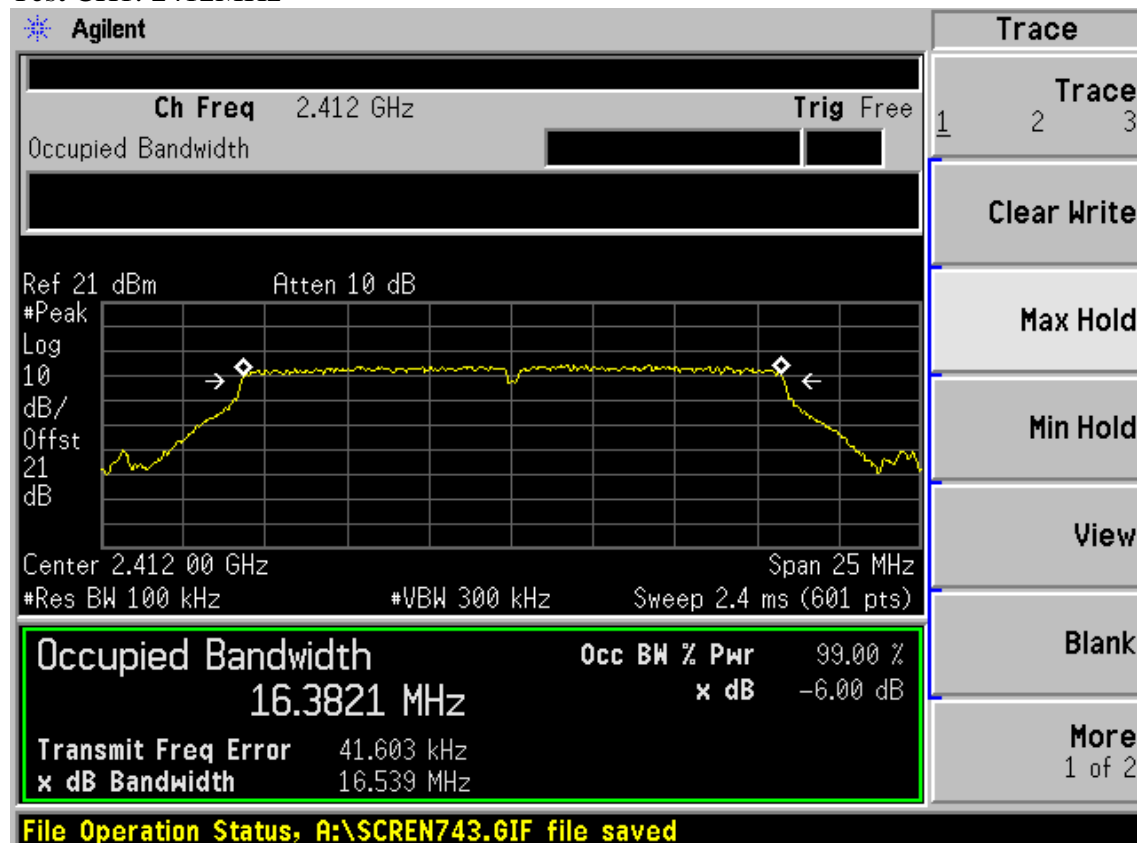


Test CH11: 2462MHz

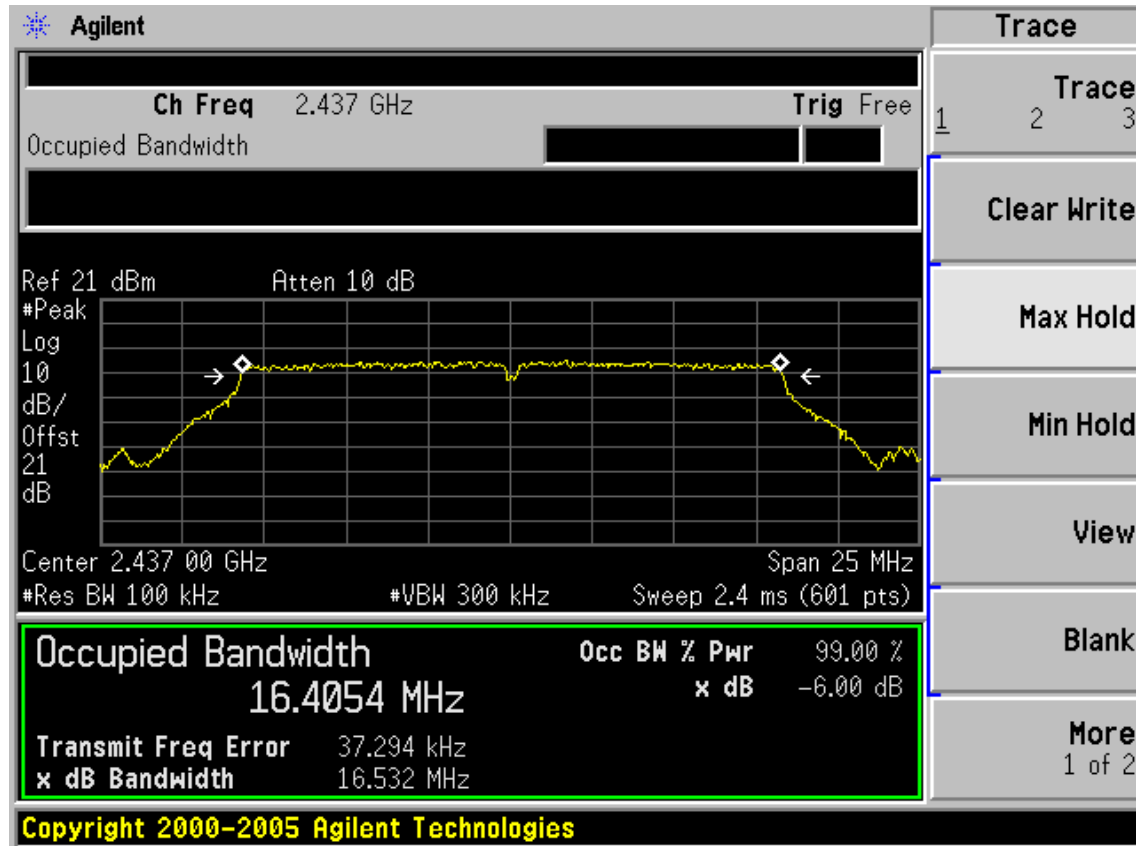


Test Mode: IEEE 802.11g TX

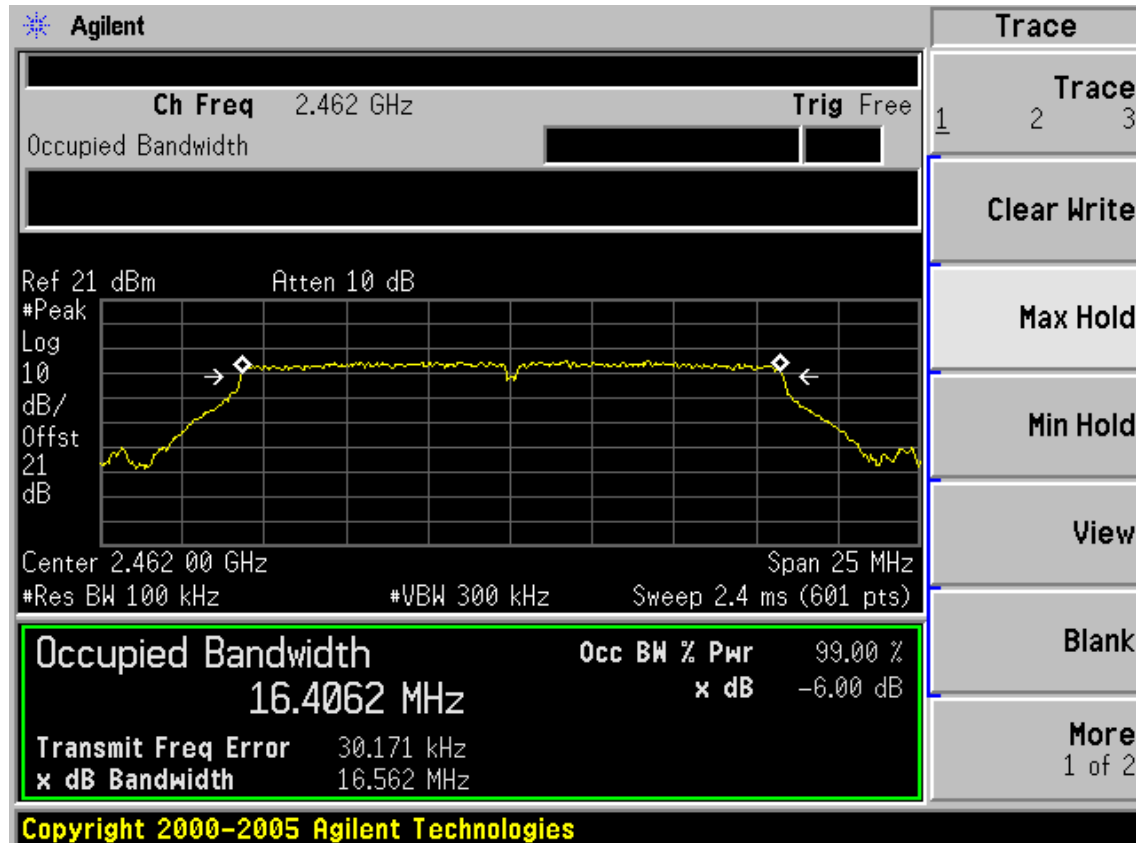
Test CH1: 2412MHz



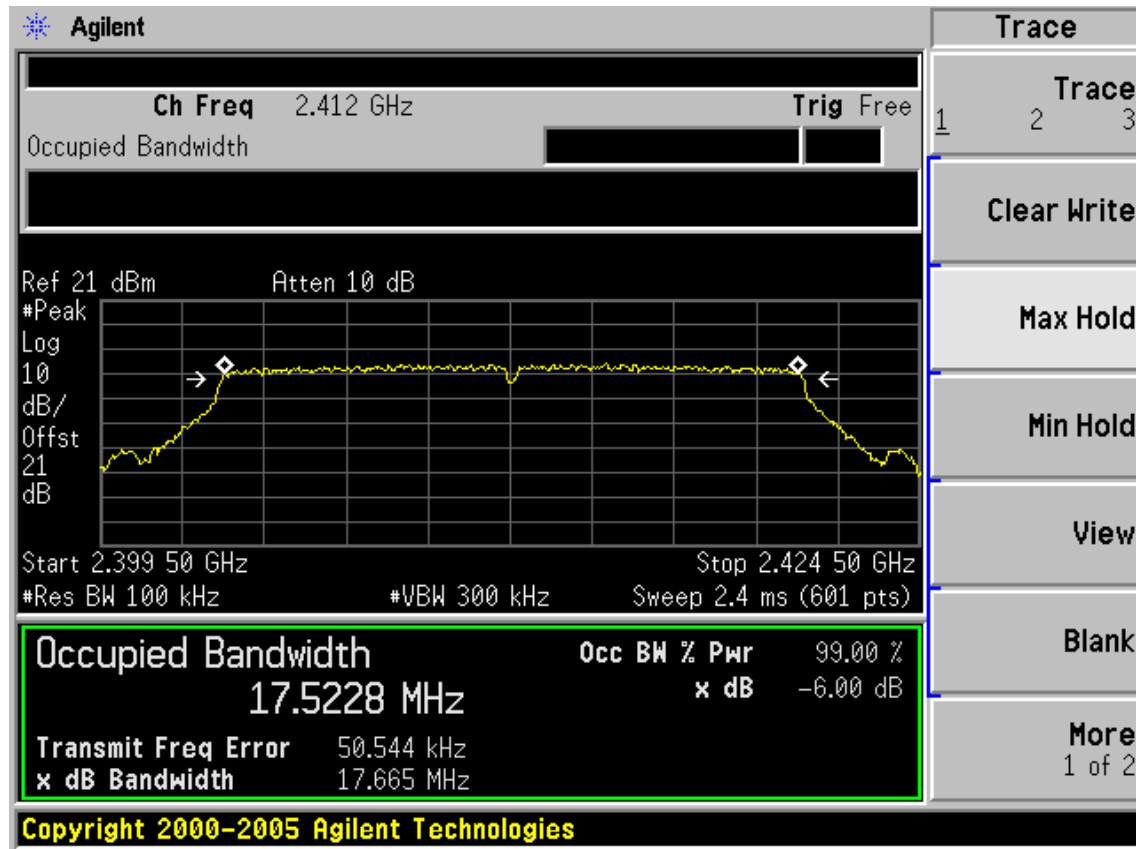
Test CH6: 2437MHz



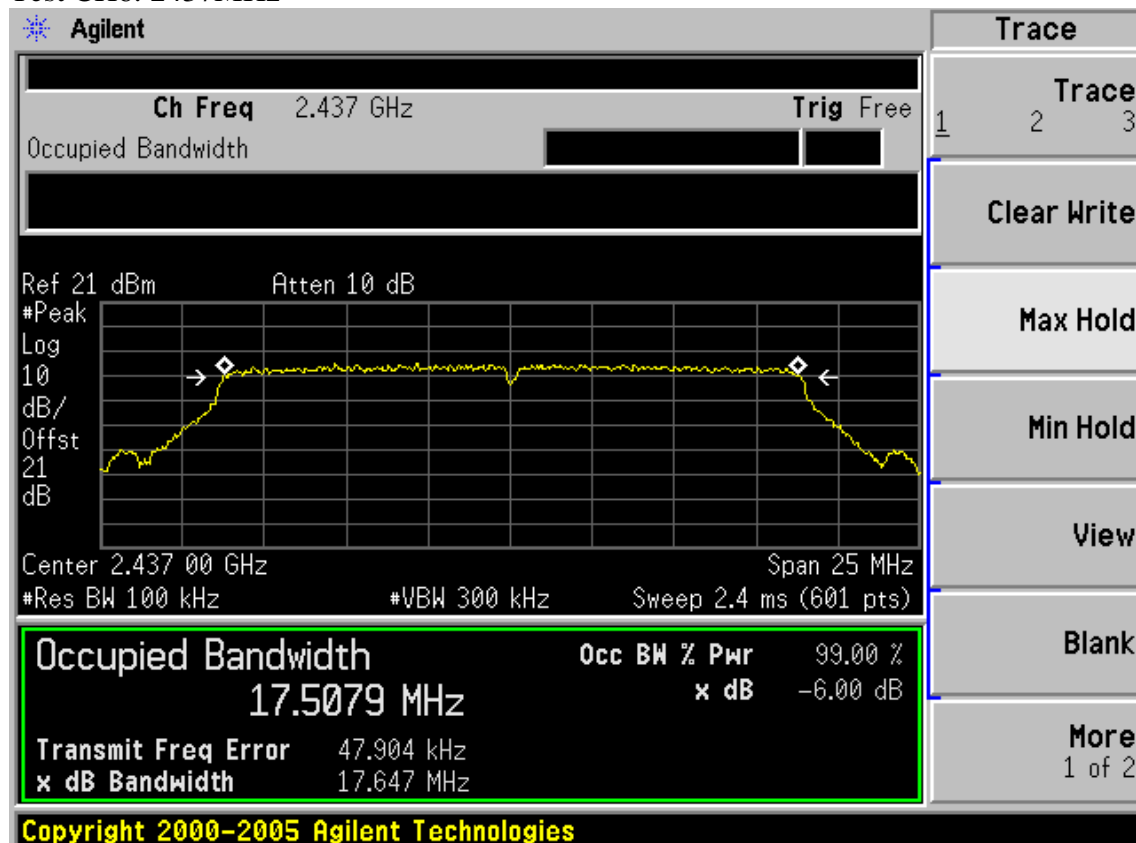
Test CH11: 2462MHz



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

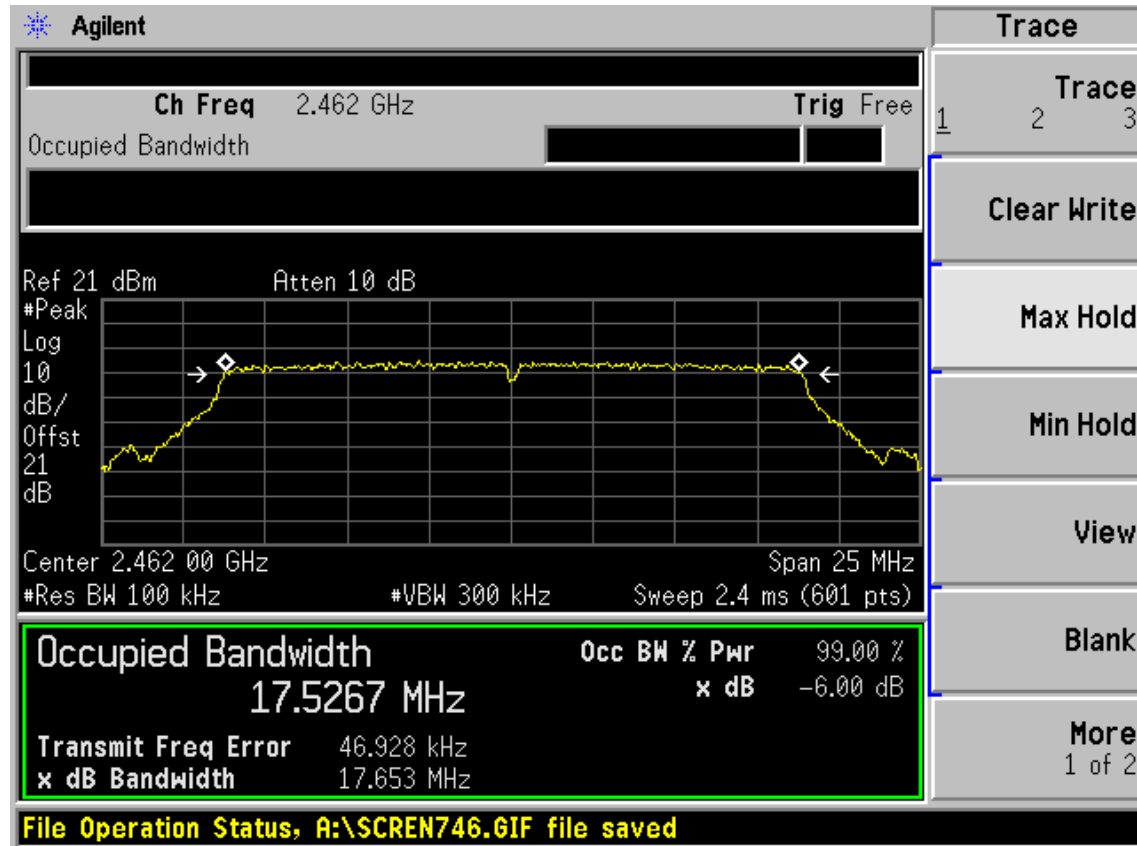


Test CH6: 2437MHz



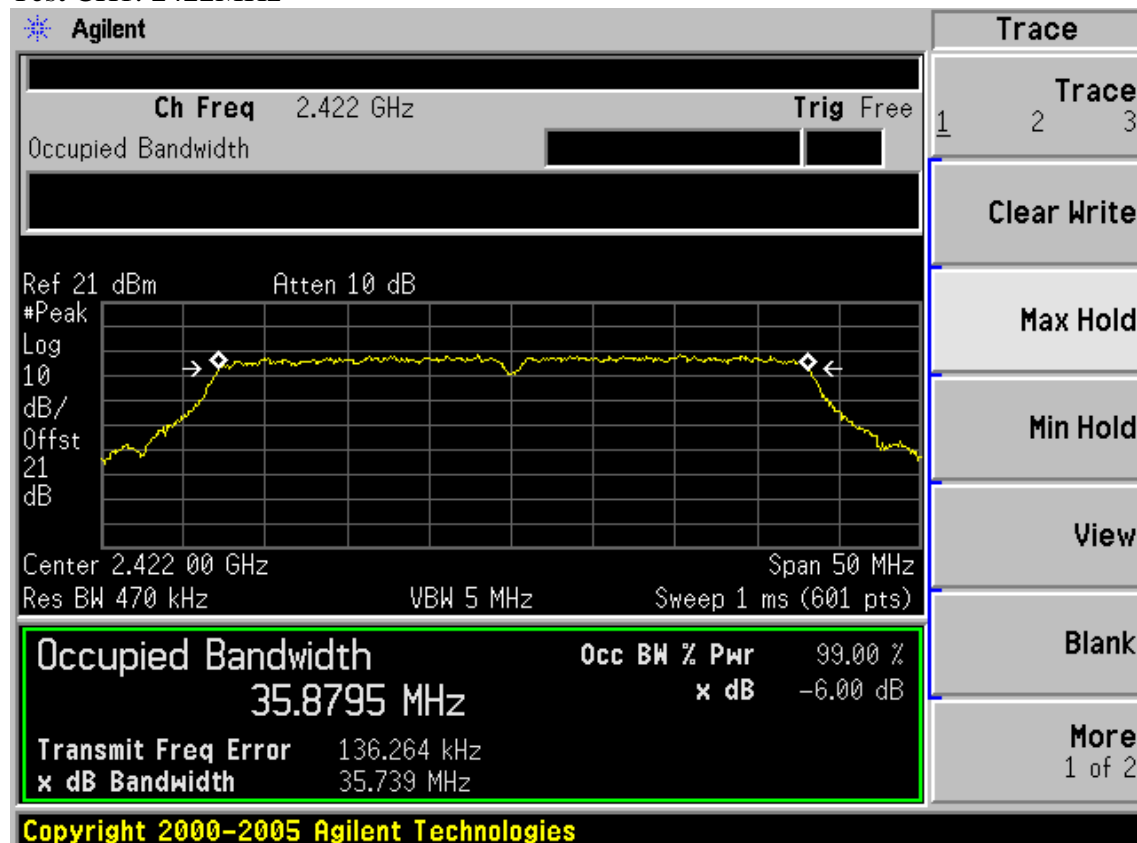


Test CH11: 2462MHz

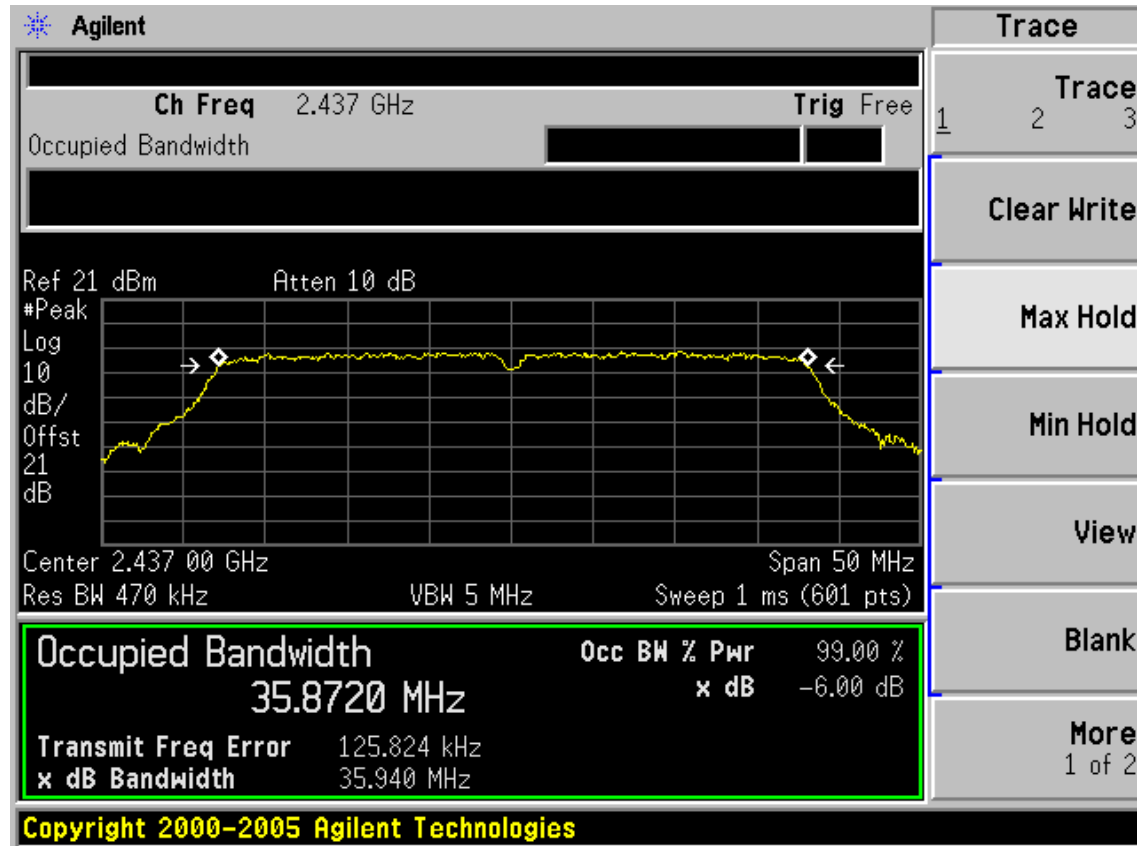


Test Mode: IEEE 802.11n HT40 TX

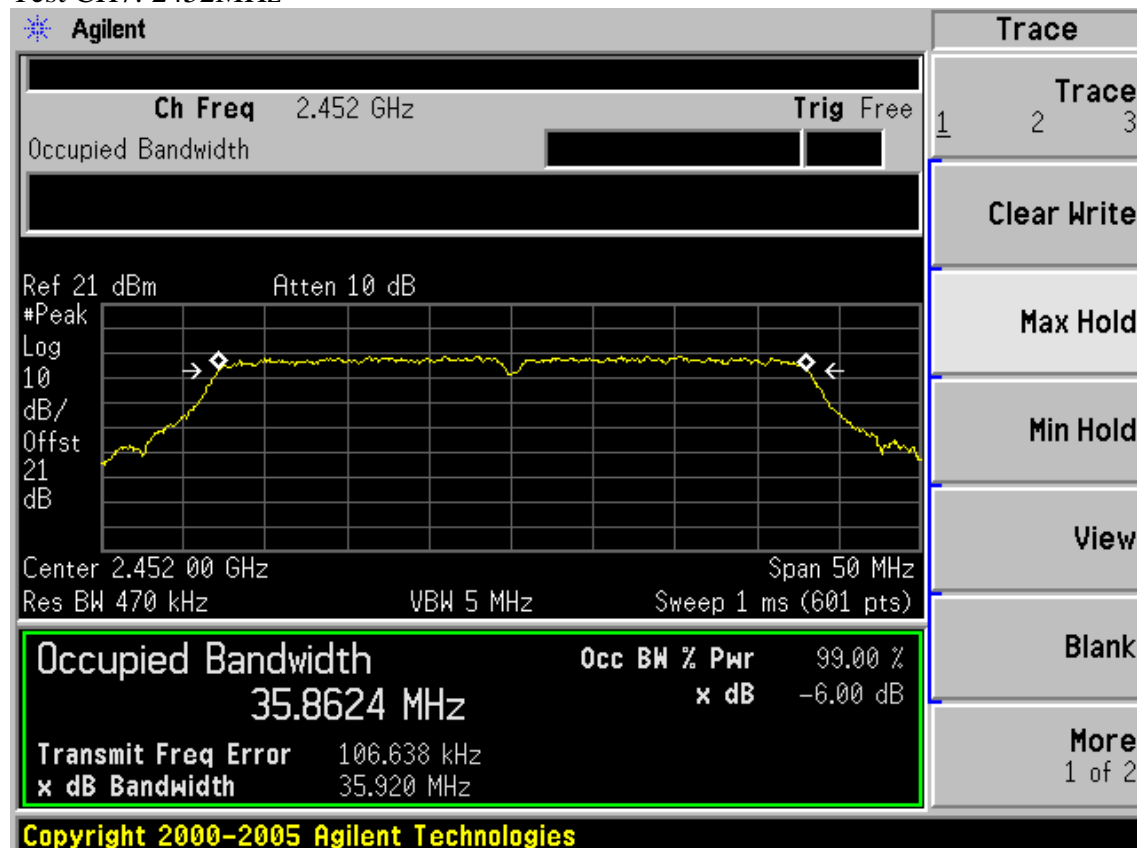
Test CH1: 2422MHz



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.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 13	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 13	1 Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 13	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 26dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB 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 Bandwidth correction method according to ANSI C63.10 clause 6.10.2.1 part (c) was used:
  - 1) Set the RBW=3MHz and VBW =8MHz
  - 2) Turn averaging off
  - 3) Set sweep to automatic
  - 4) Set the span just large enough to capture the emission
  - 5) Use a peak detector on max hold
  - 6) Record the measured power
  - 7) Calculate Output power of EUT use the formula:

Peak output power =measured power+ 10log[(26dB bandwidth of emission)/(analyzer RBW)]

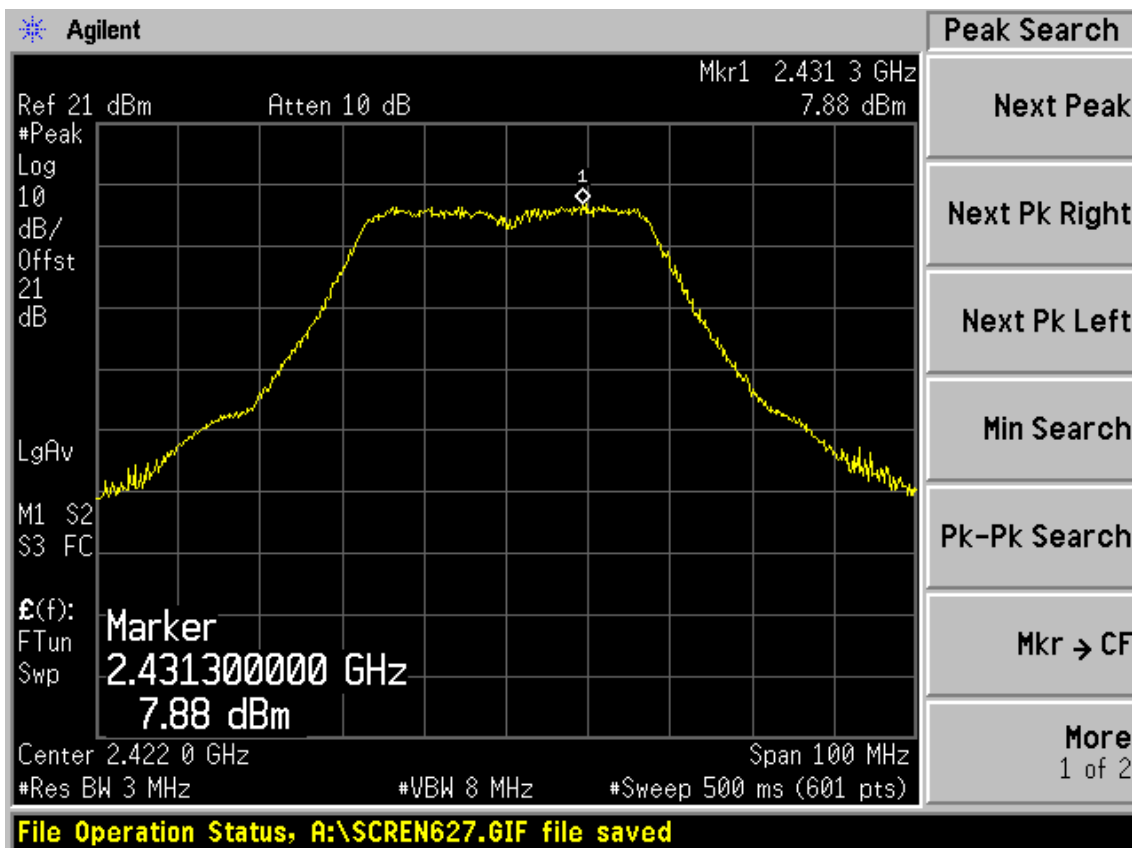
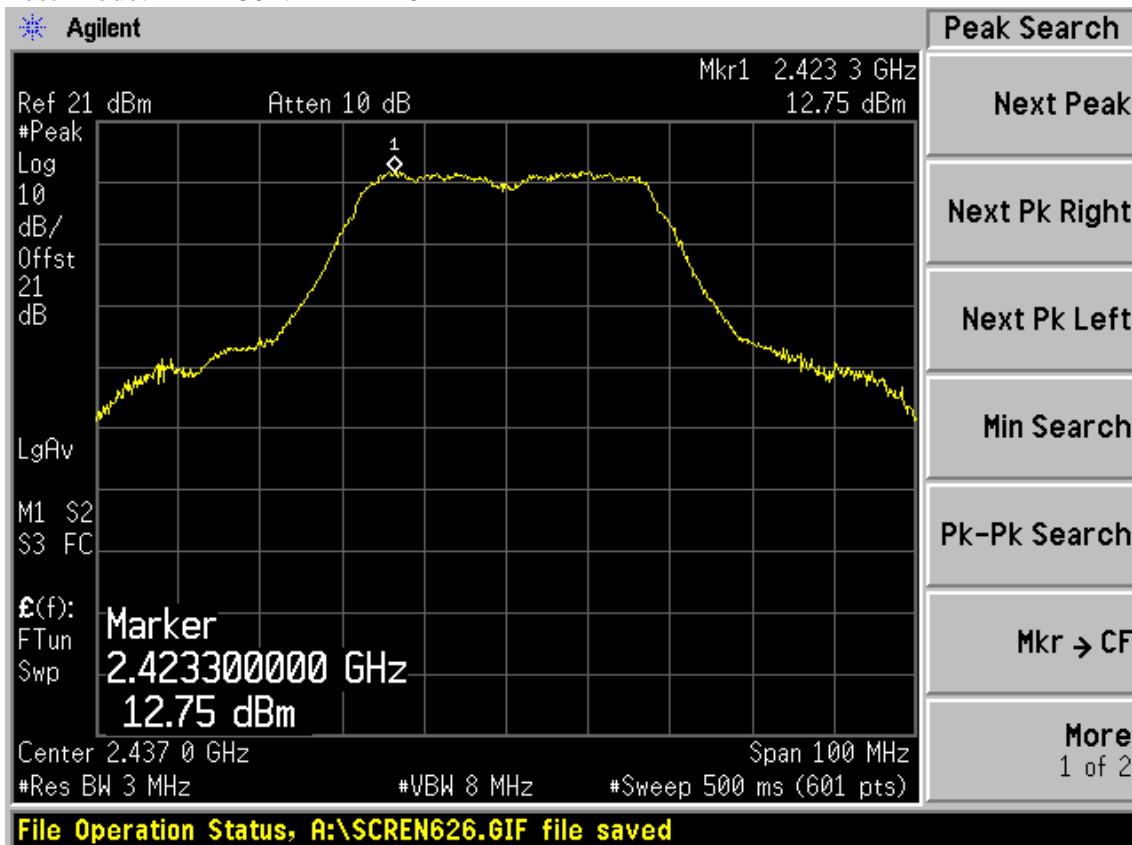
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

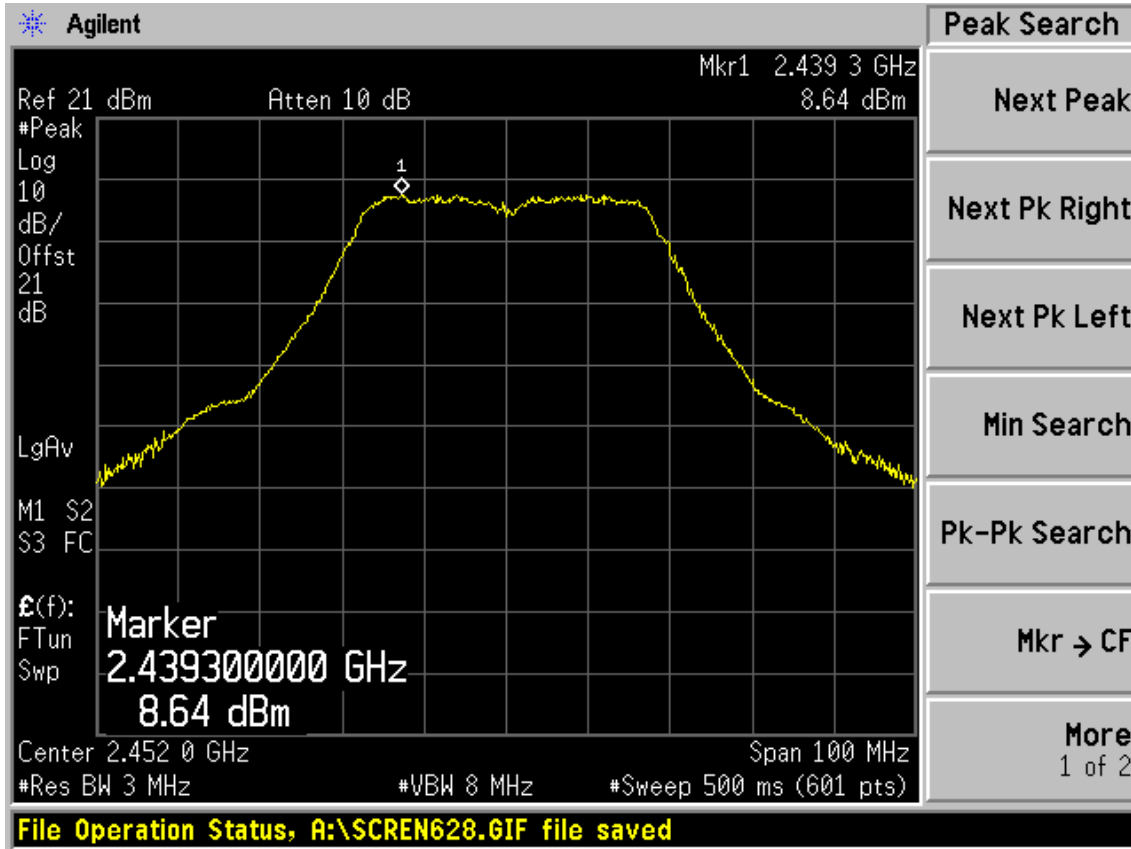
## 8.4. Test Results

EUT: 3G Wireless N Nano Router			
M/N: ARNPE154U1			
Test date: 2013-05-25		Pressure: 101.2±1.0 kpa	Humidity: 52.5±3.0%
Tested by: Leo-Li		Test site: RF Site	Temperature : 22.4±0.6 °C
Cable loss: 1 dB		Attenuator loss: 20 dB	Antenna Gain: 0 dBi
Test Mode	CH (MHz)	Peak output Power (dBm)	Limit (dBm)
11b	CH1	18.69	30
	CH6	19.58	30
	CH11	19.50	30
11g	CH1	21.70	30
	CH6	24.52	30
	CH11	22.14	30
11n HT20	CH1	20.60	30
	CH6	23.96	30
	CH11	24.19	30

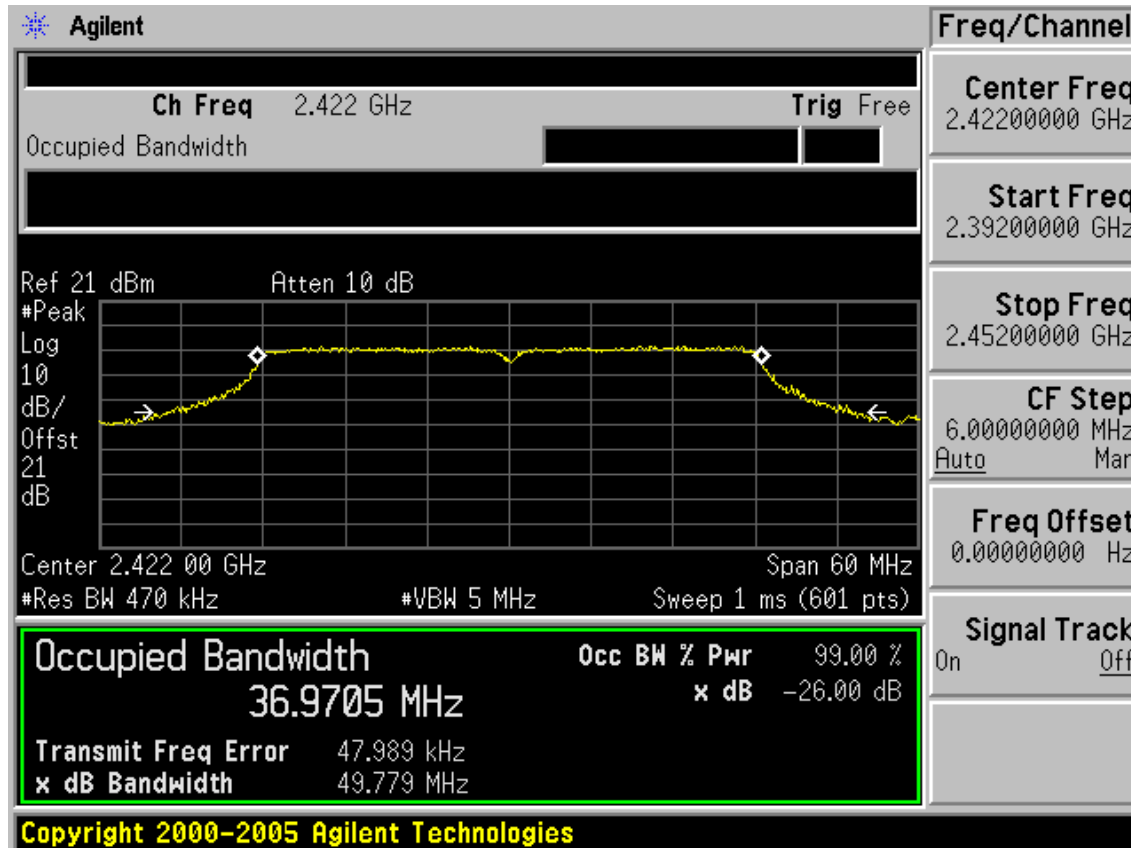
Test Mode	CH	Result		Limit
		Measured power(dBm)/3MHz	PK Output power (dBm)	(dBm)
11n HT40	CH1	7.88	20.08	30
	CH4	12.75	24.95	30
	CH7	8.64	20.84	30
26dB Bandwidth for 11n HT40:49.834MHz				
BW correction factor = 10log[(49.834MHz)/(3MHz)] = 12.20dB				
Conclusion: PASS				

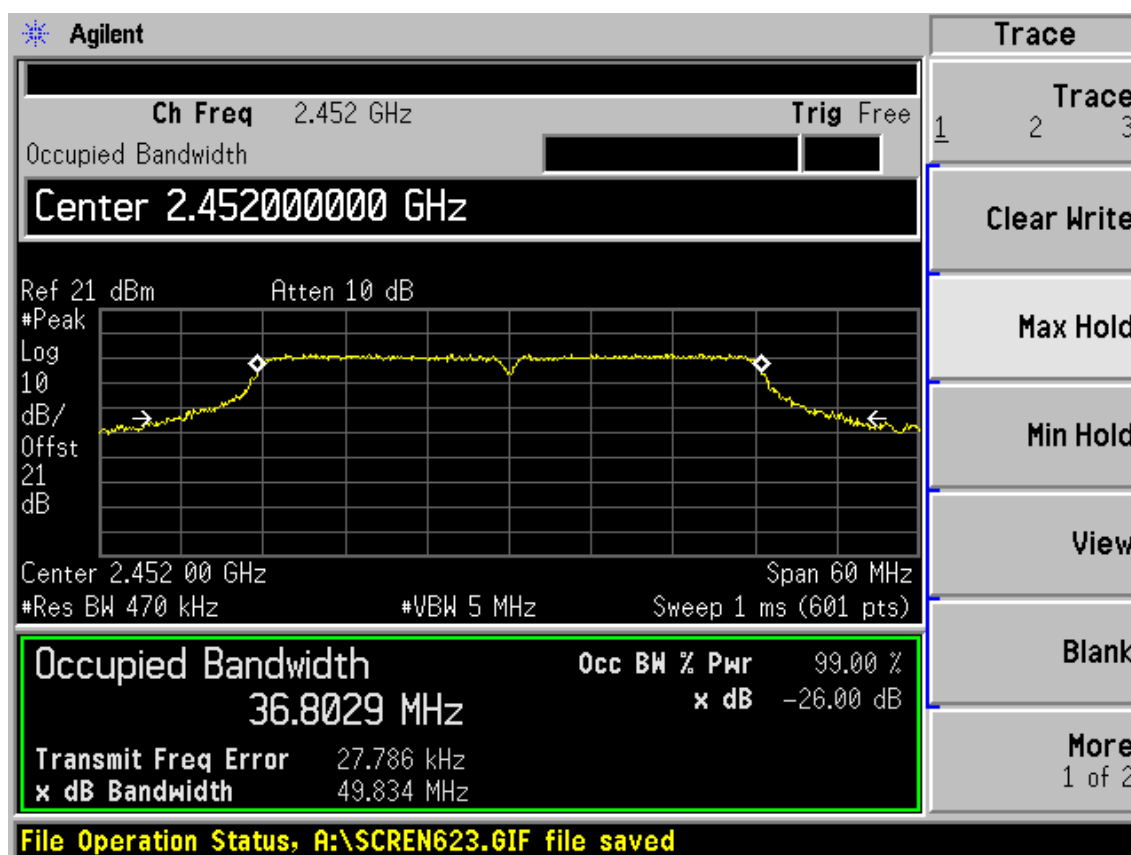
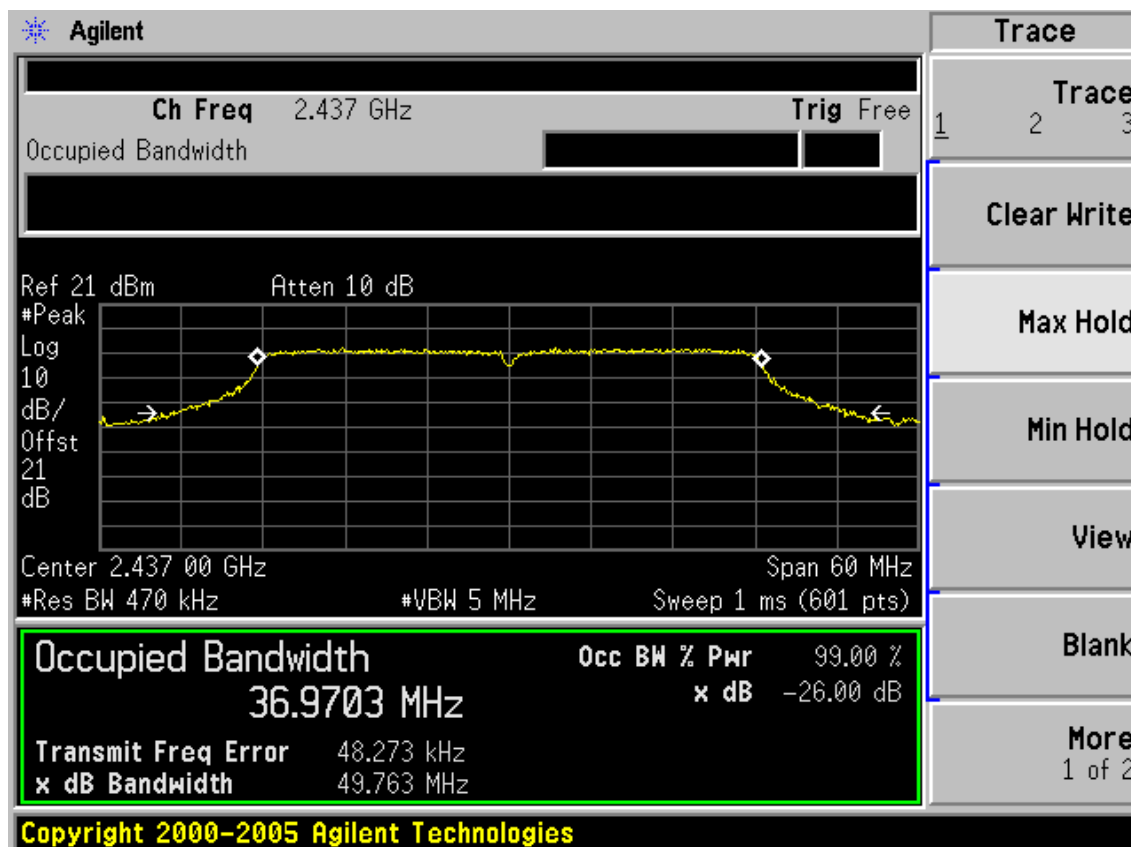
Test Mode: IEEE 802.11n HT40





### 26dB Bandwidth





## 9. POWER SPECTRAL DENSITY TEST

### 9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 13	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 13	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 13	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 13	1 Year

### 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. Set the test frequency as center frequency, Set RBW=3KHz, VBW=10KHz, Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the frequency read from produce 2 as center frequency, then set the span=300KHz, Sweep time=Span/RBW, Then Max hold, read out each mode and each chain's Power density.

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



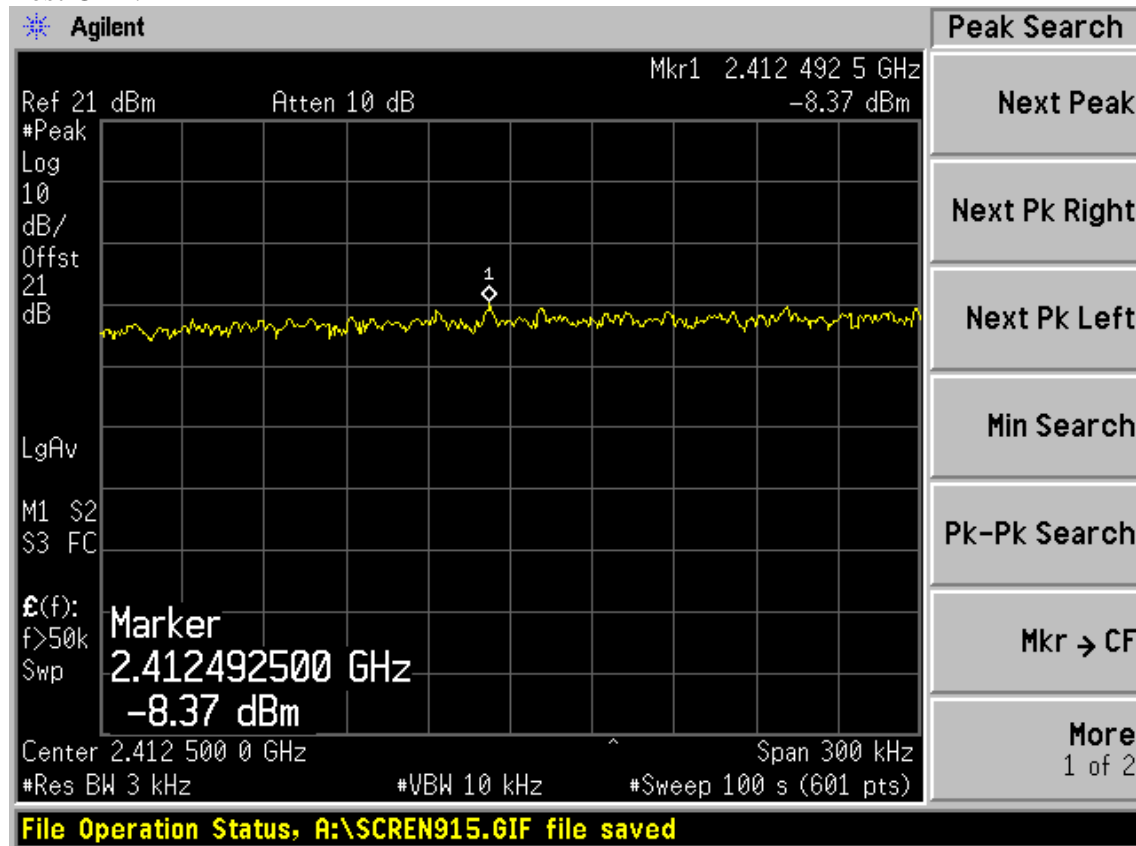
## 9.4.Test Results

EUT: 3G Wireless N Nano Router		
M/N: ARNPE154U1		
Test date: 2013-05-27	Pressure: 101.2±1.0 kpa	Humidity: 53.1±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 23.9±0.6 °C

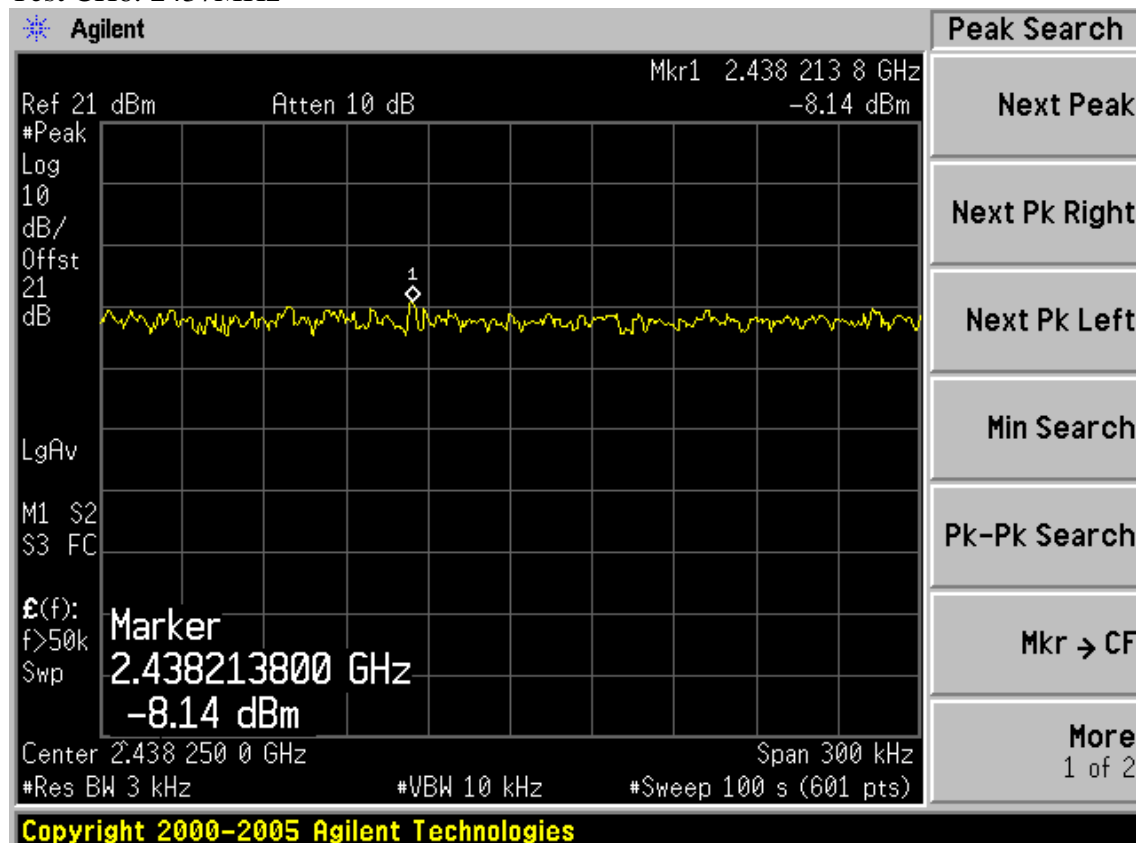
Cable loss: 1 dB		Attenuator loss: 20 dB	
Test Mode	CH	Power density ( dBm/3KHz )	Limit (dBm/3KHz)
11b	CH1	-8.37	8
	CH6	-8.14	8
	CH11	-9.30	8
11g	CH1	-13.28	8
	CH6	-9.81	8
	CH11	-15.00	8
11n HT20	CH1	-17.30	8
	CH6	-10.59	8
	CH11	-17.03	8
11n HT40	CH1	-20.58	8
	CH4	-11.89	8
	CH7	-21.10	8
Conclusion : PASS			

Test Mode: IEEE 802.11b TX

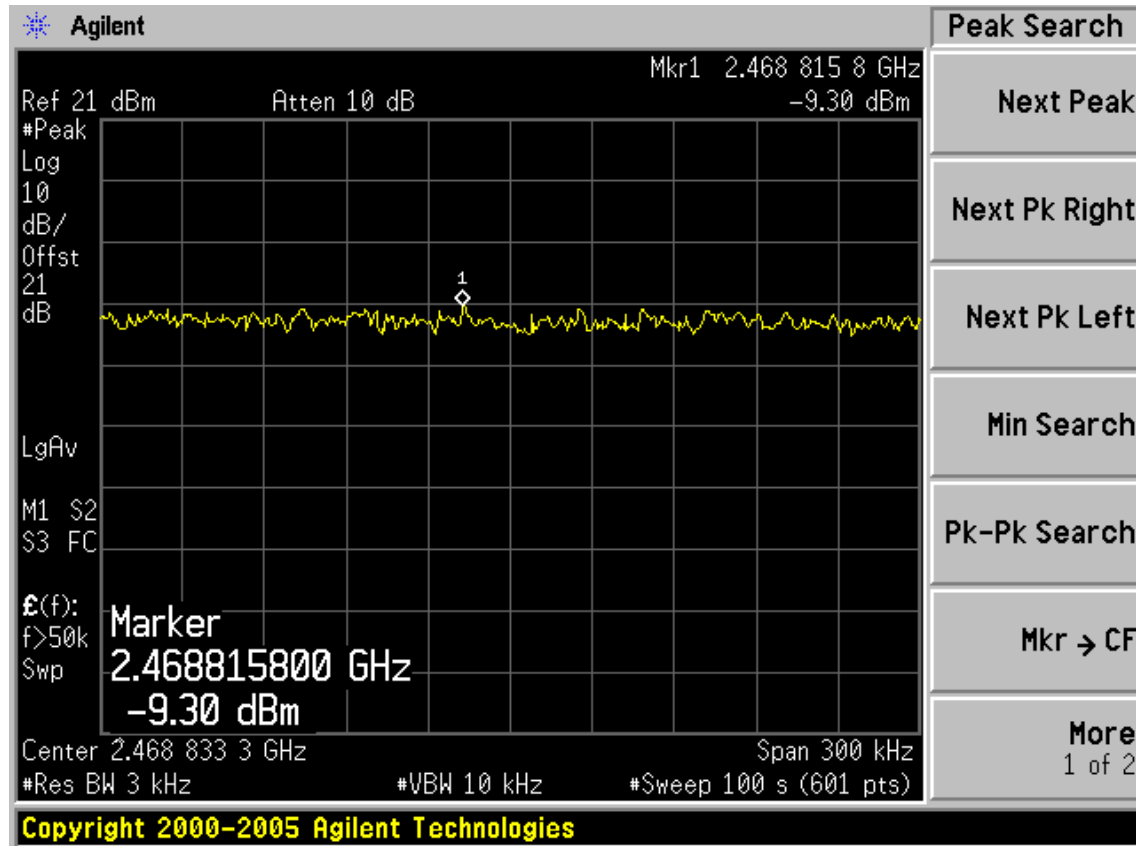
Test CH1: 2412MHz



Test CH6: 2437MHz

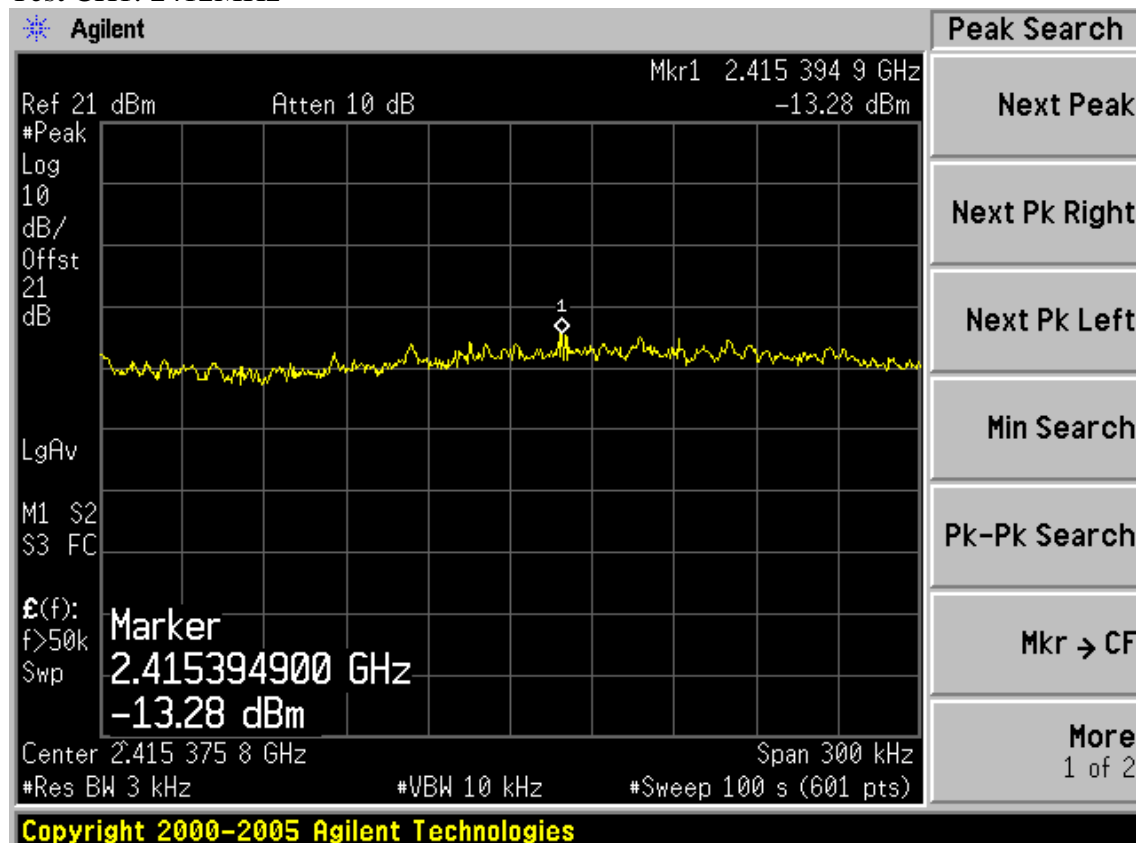


Test CH11: 2462MHz

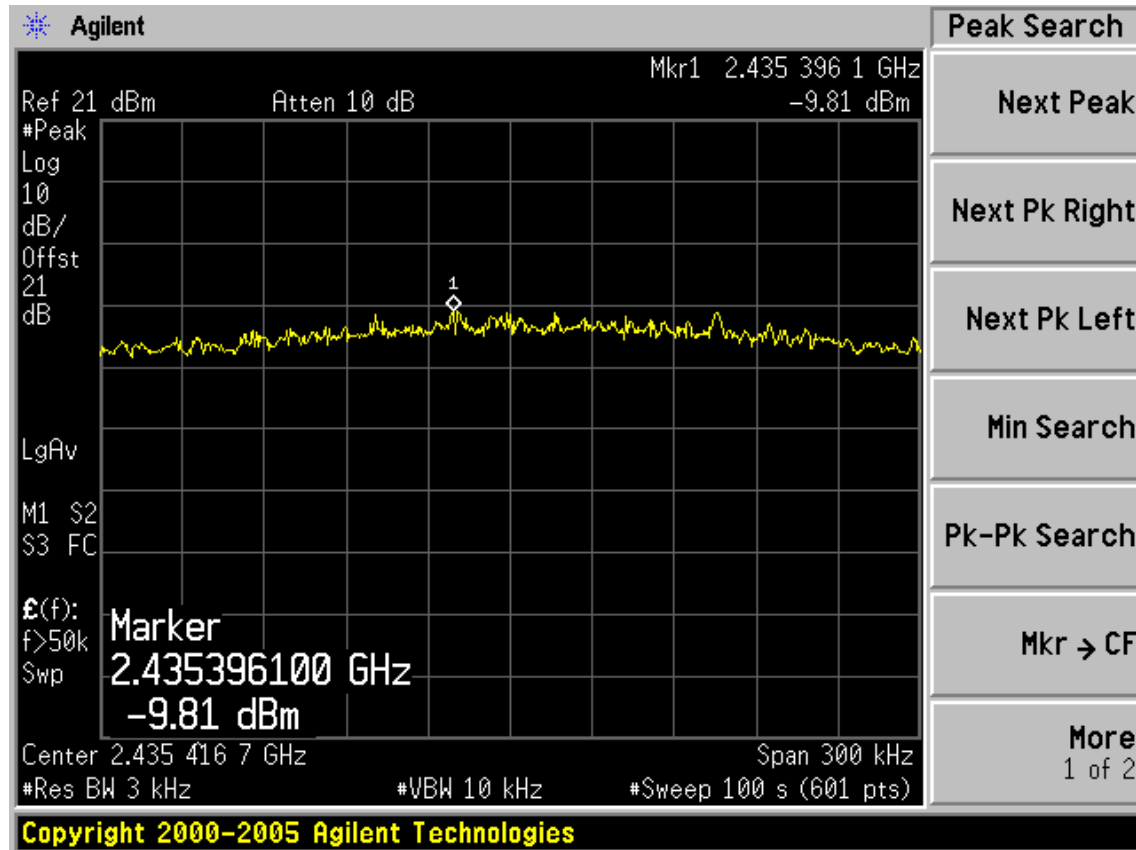


Test Mode: IEEE 802.11g TX

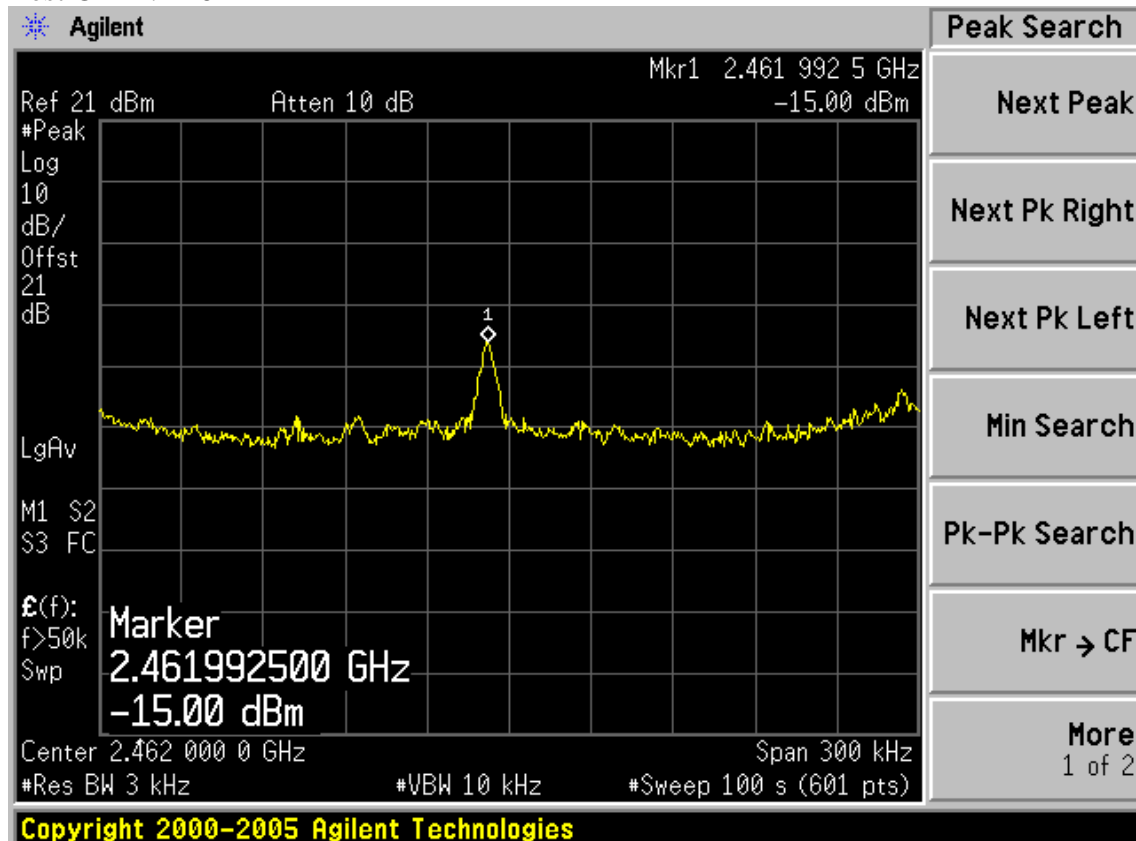
Test CH1: 2412MHz



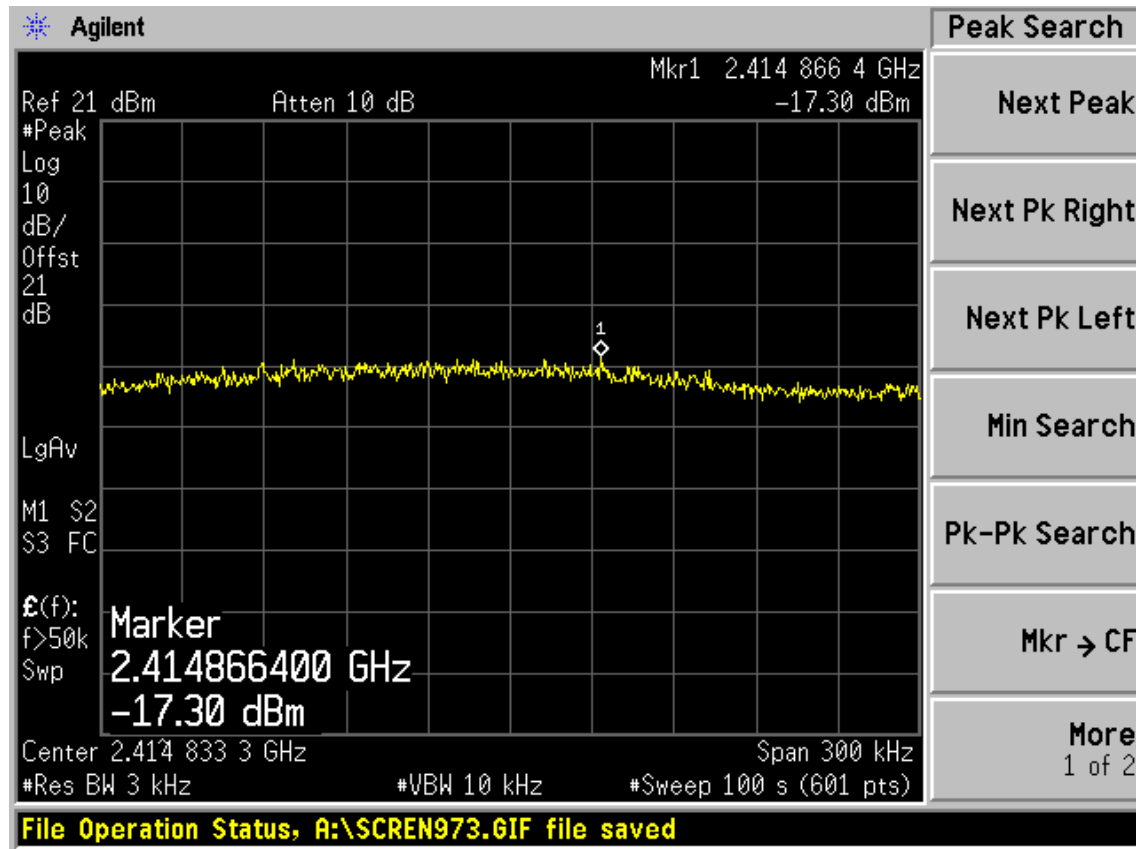
Test CH6: 2437MHz



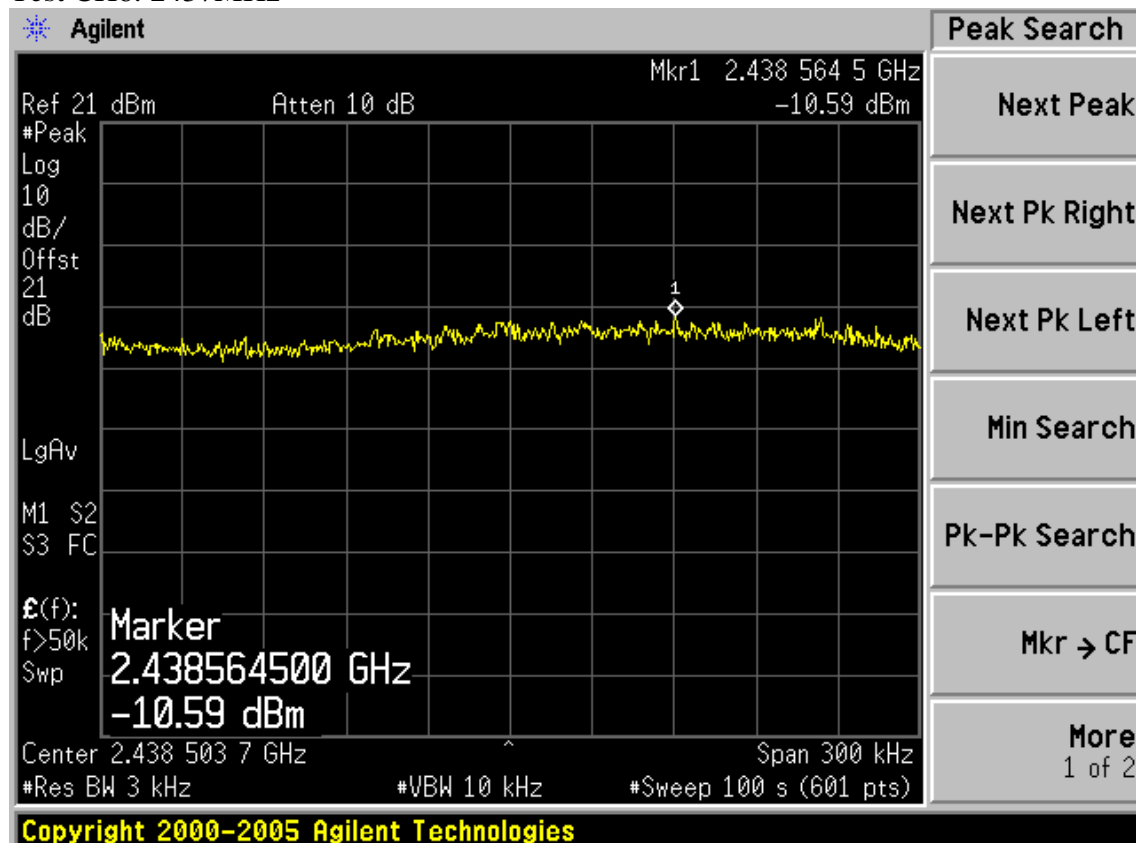
Test CH11: 2462MHz



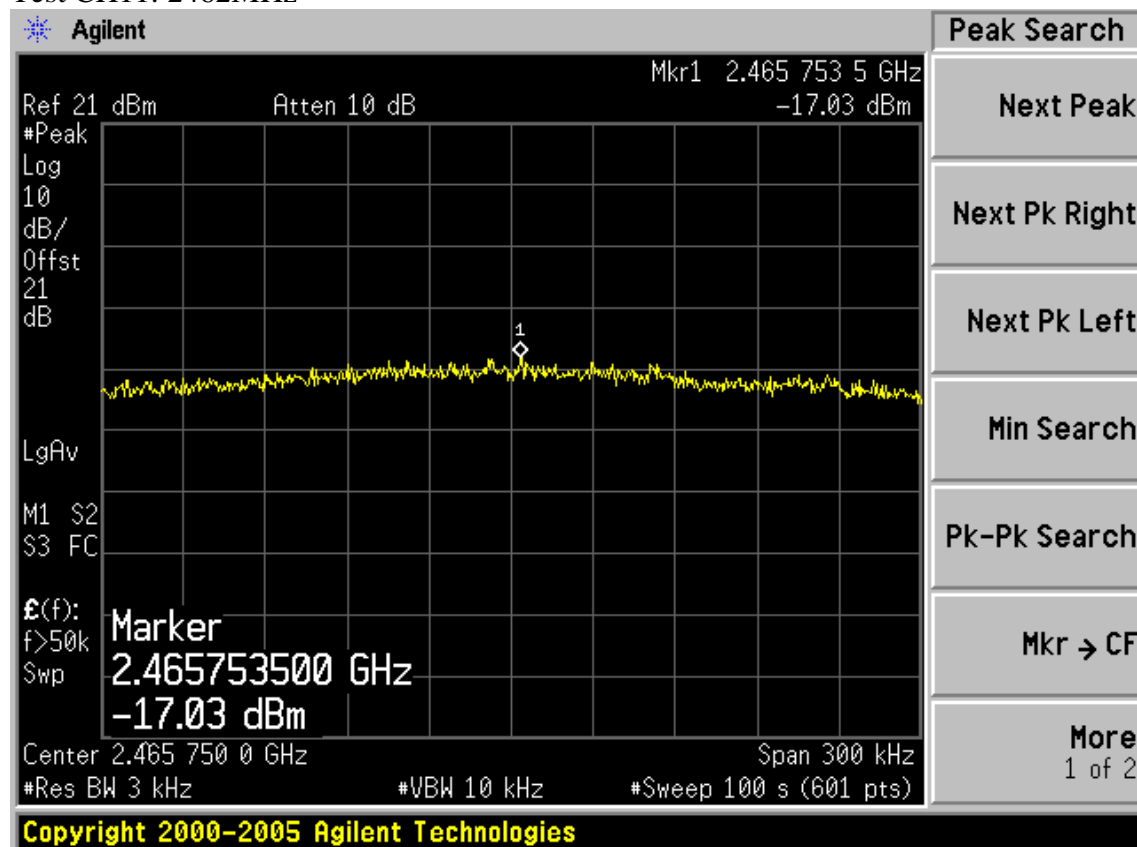
Test Mode: IEEE 802.11n HT20 TX  
Test CH1: 2412MHz



Test CH6: 2437MHz

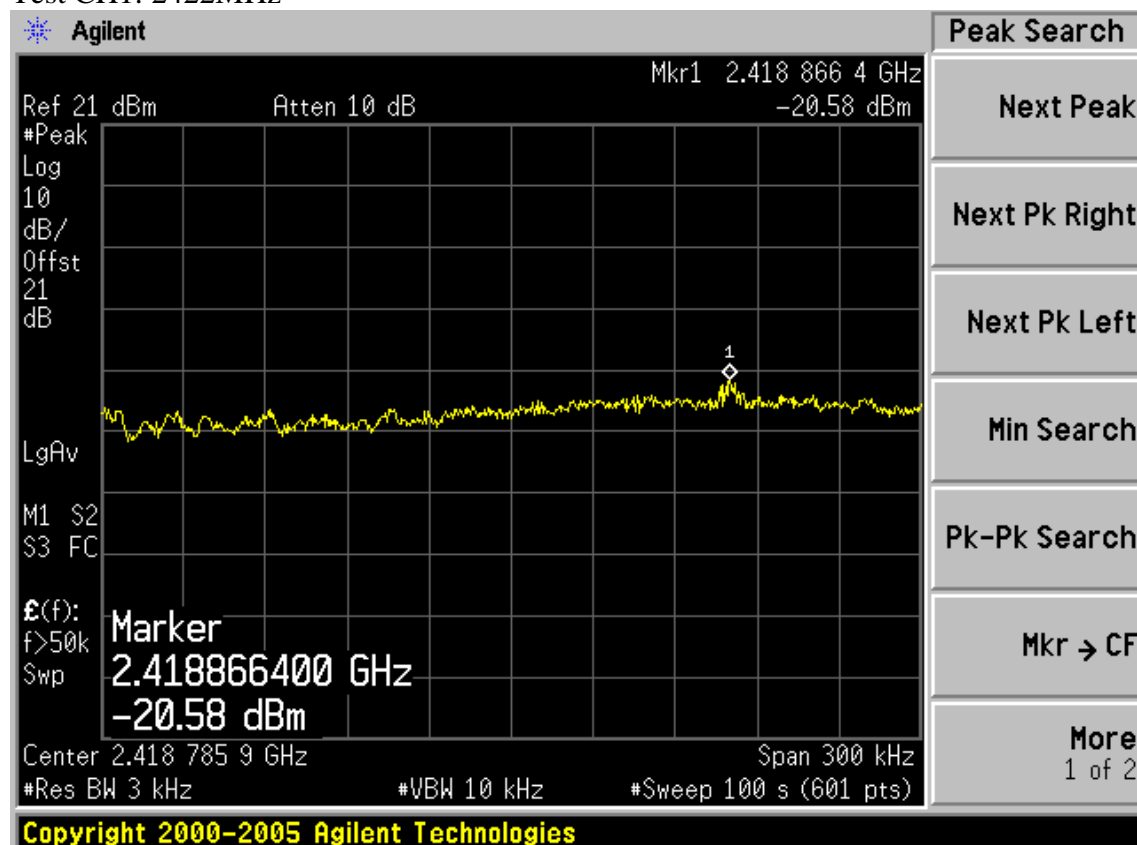


Test CH11: 2462MHz

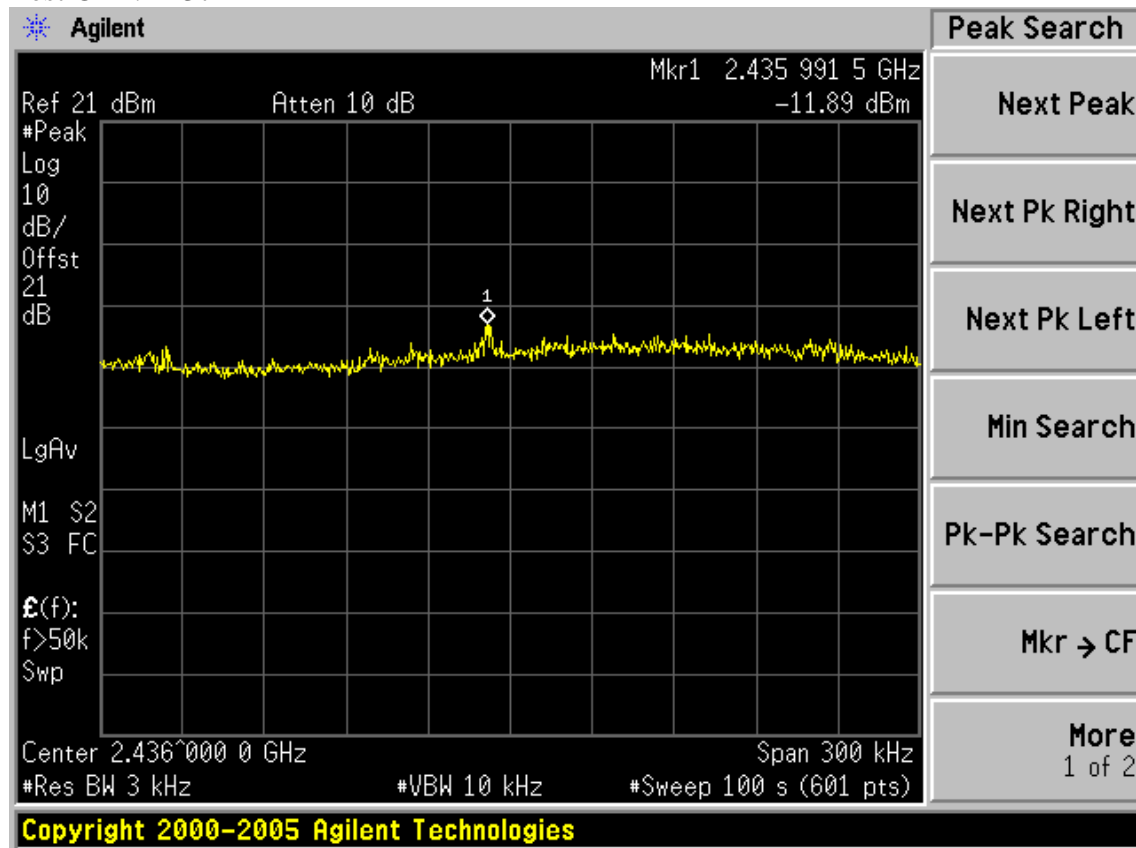


Test Mode: IEEE 802.11n HT40 TX

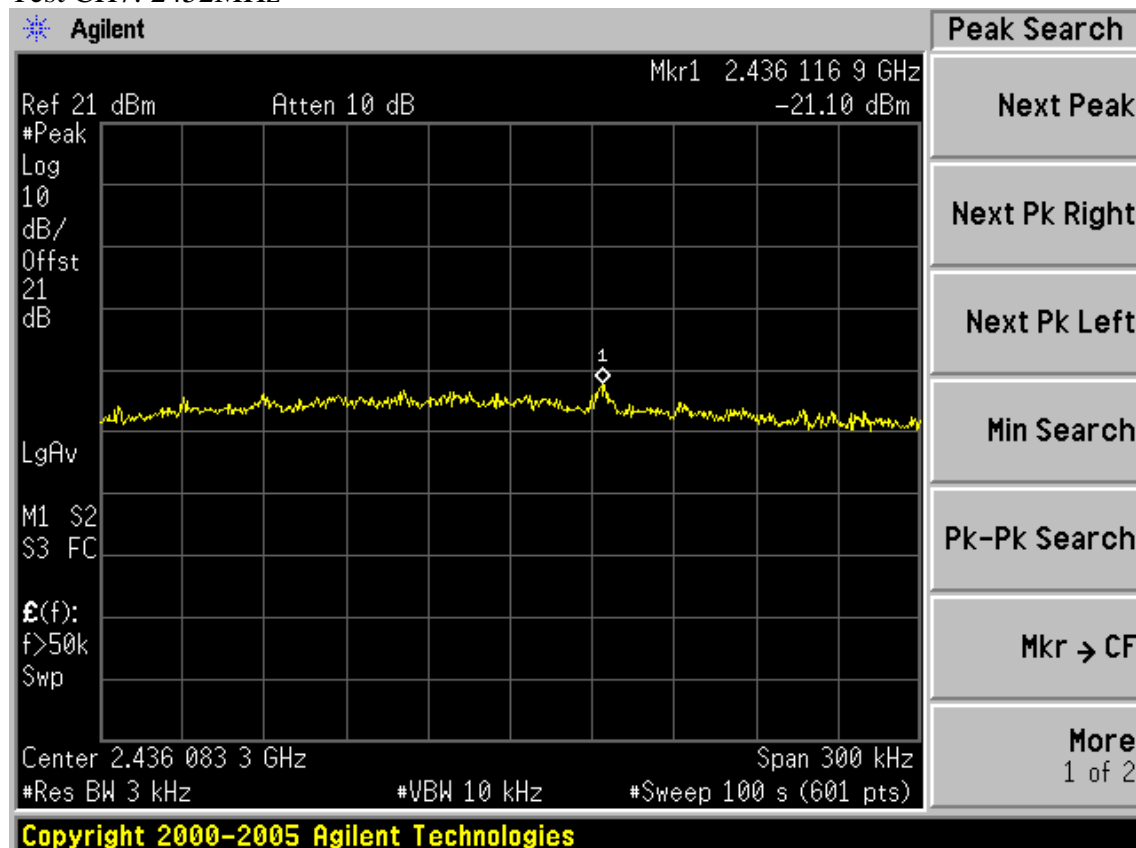
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



## **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 0dBi.

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

The antennas used for this product are PIFA antenna 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 0Bi.



## 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. Estimation Result

EUT: 3G Wireless N Nano Router		
M/N: ARNPE154U1		
Test date: 2013-05-25	Pressure: 101.4±1.0 kpa	Humidity: 55.6±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 22.4±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 0 dBi	
Test Mode	CH	Frequency ( MHz )	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	18.69	73.96	0	1.00	0.0147
	CH6	2437	19.58	90.78	0	1.00	0.0181
	CH11	2462	19.5	89.13	0	1.00	0.0177
11g	CH1	2412	21.7	147.91	0	1.00	0.0294
	CH6	2437	24.52	283.14	0	1.00	0.0564
	CH11	2462	22.14	163.68	0	1.00	0.0326
11n HT20	CH1	2412	20.6	114.82	0	1.00	0.0229
	CH6	2437	23.96	248.89	0	1.00	0.0495
	CH11	2462	24.19	262.42	0	1.00	0.0522
11n HT40	CH1	2422	20.08	101.86	0	1.00	0.0203
	CH4	2437	24.95	312.61	0	1.00	0.0622
	CH7	2452	20.84	121.34	0	1.00	0.0242

## **12.DEVIATION TO TEST SPECIFICATIONS**

[ NONE]