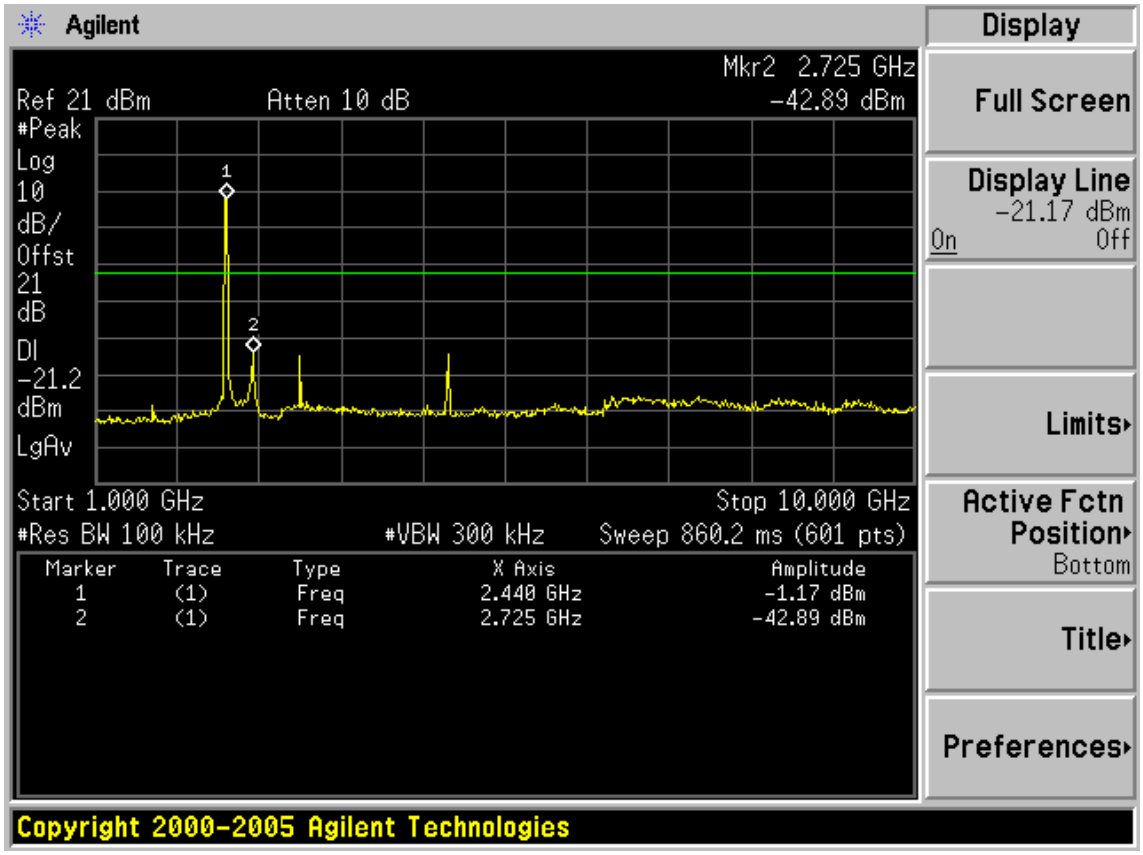
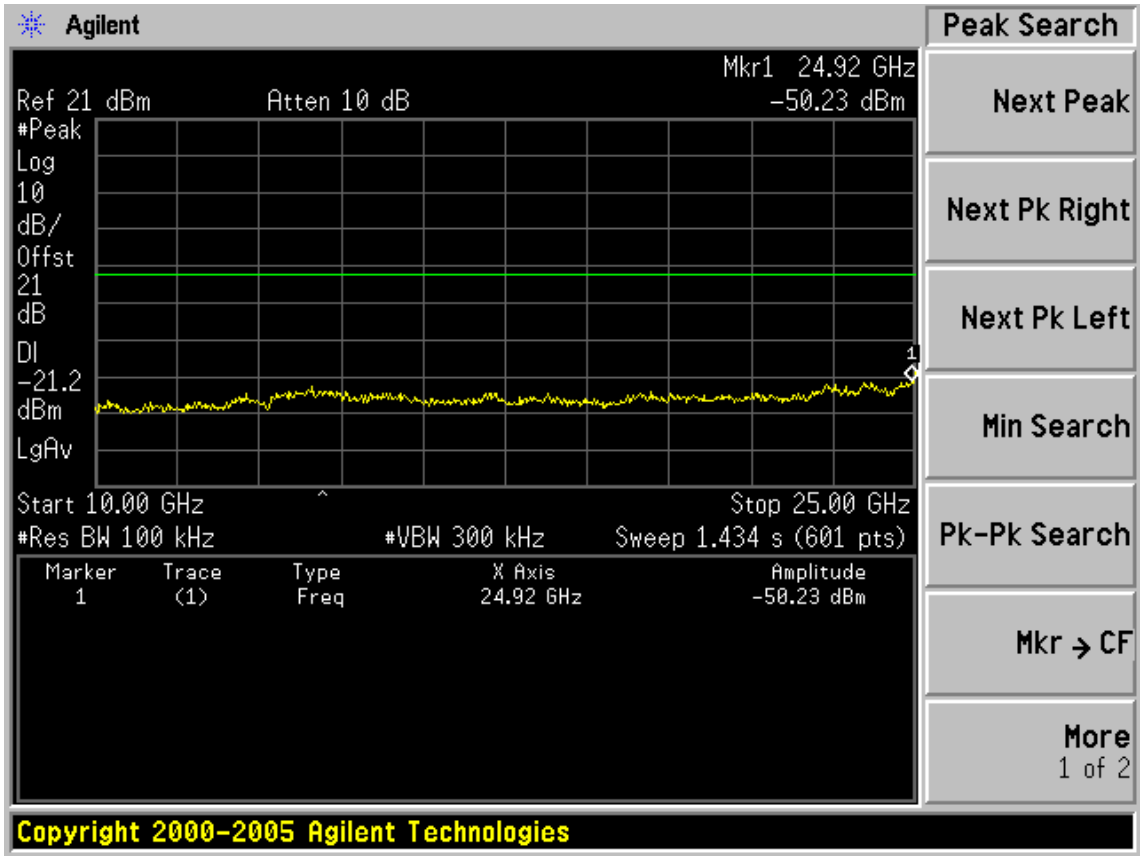
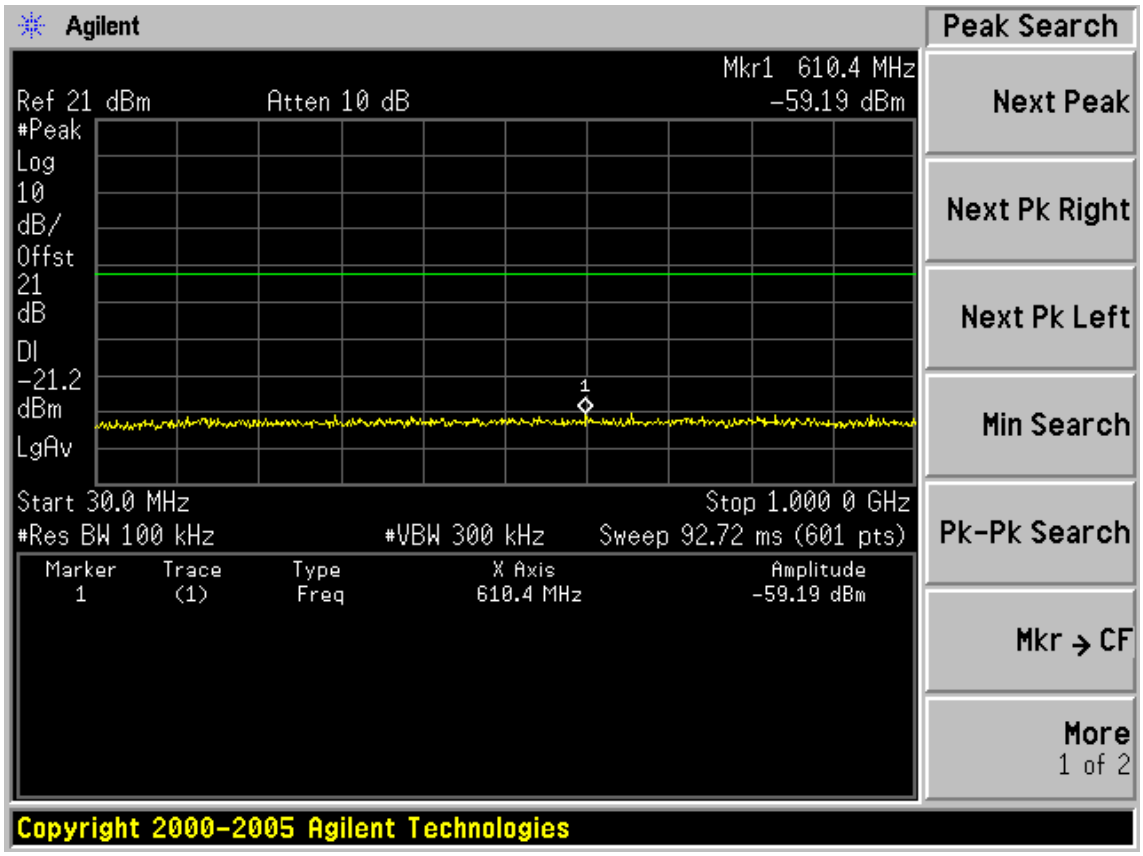
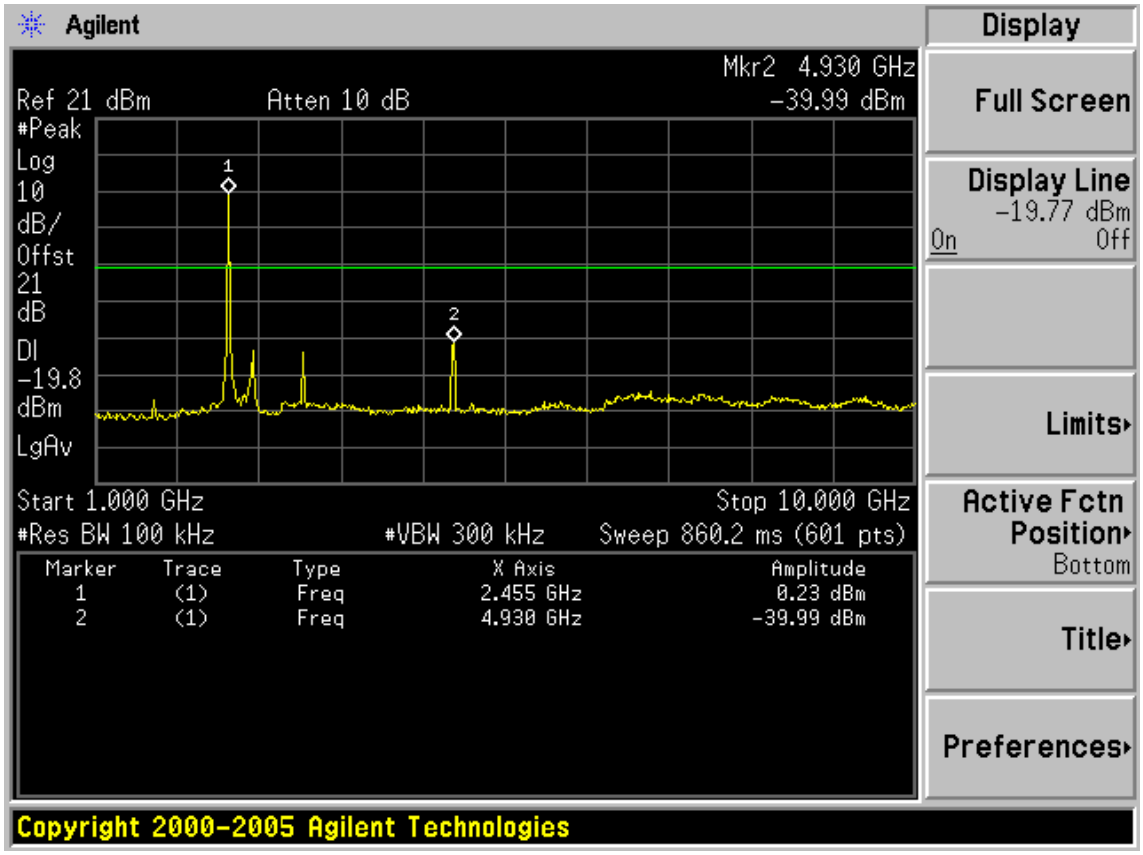
Test CH6: 2437MHz

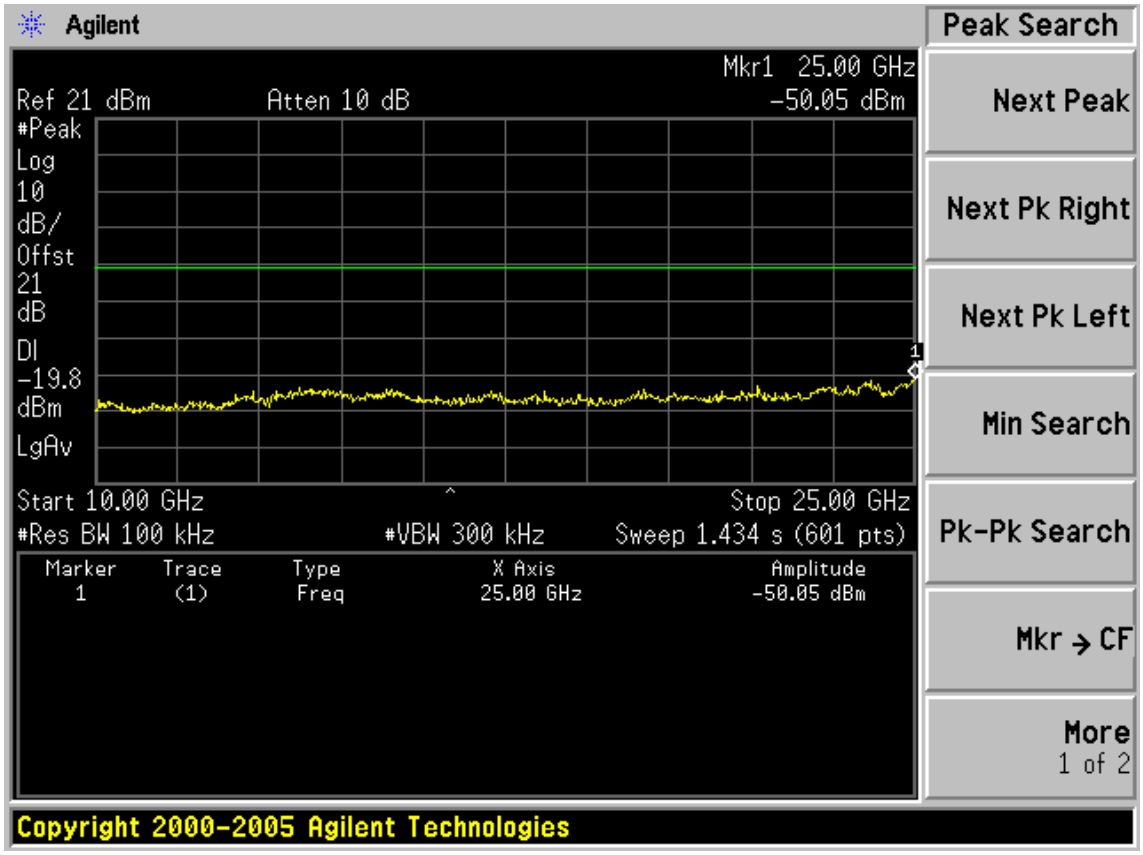


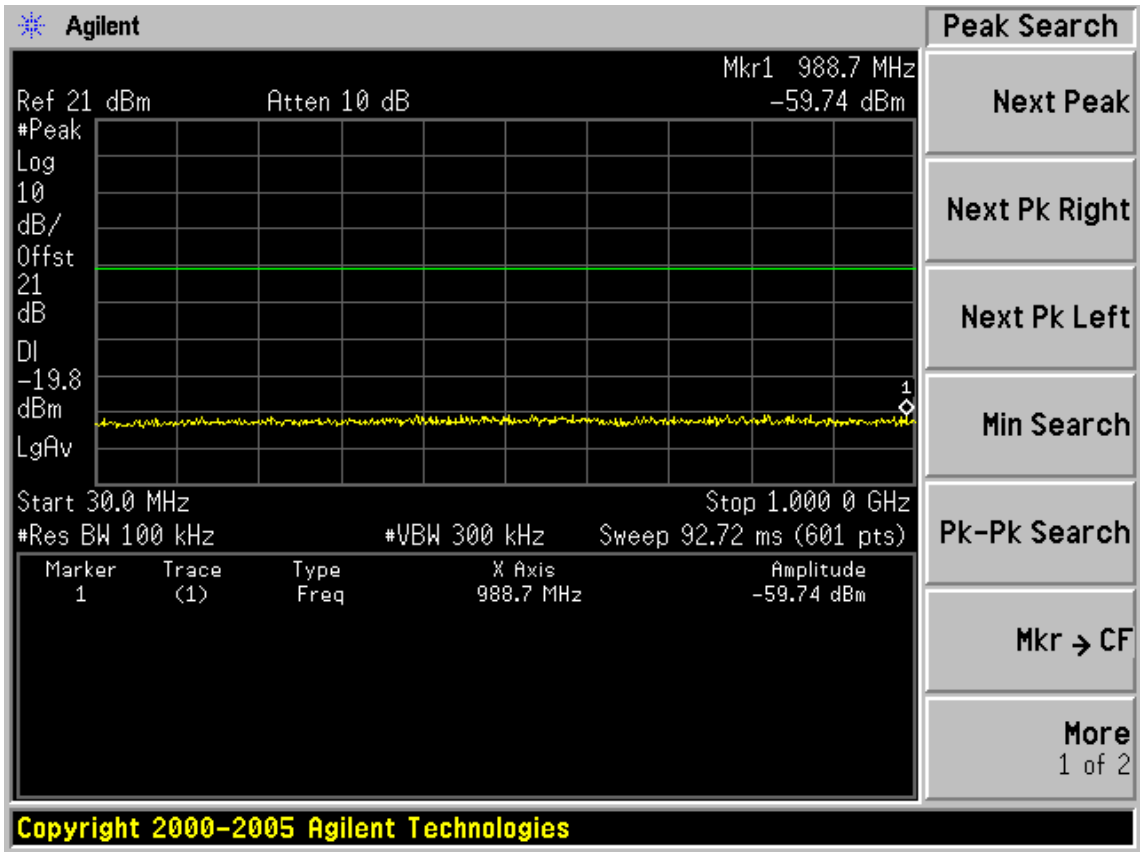


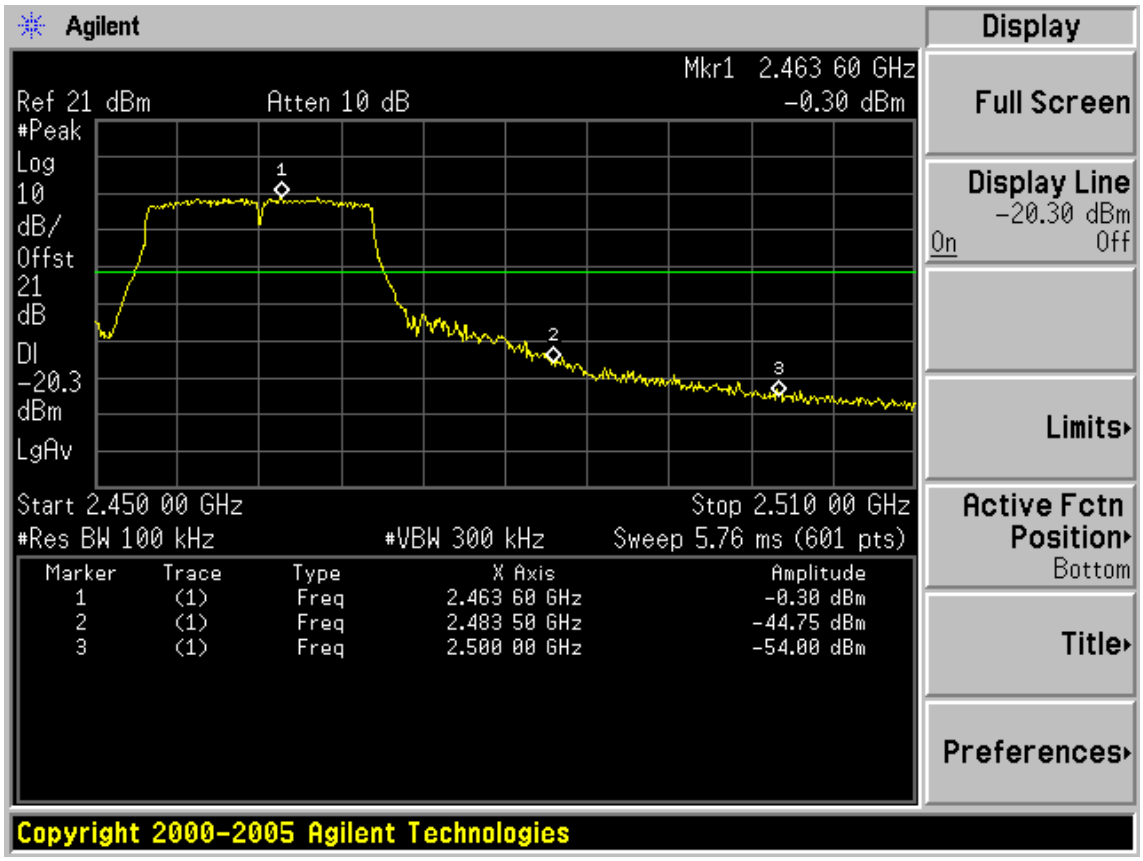

Agilent
Peak Search
Mkr1 610.4 MHz
Ref 21 dBm
Atten 10 dB
-59.19 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-21.2
dBm
LgAv
1
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 610.4 MHz -59.19 dBm
Copyright 2000-2005 Agilent Technologies

Test CH11: 2462MHz

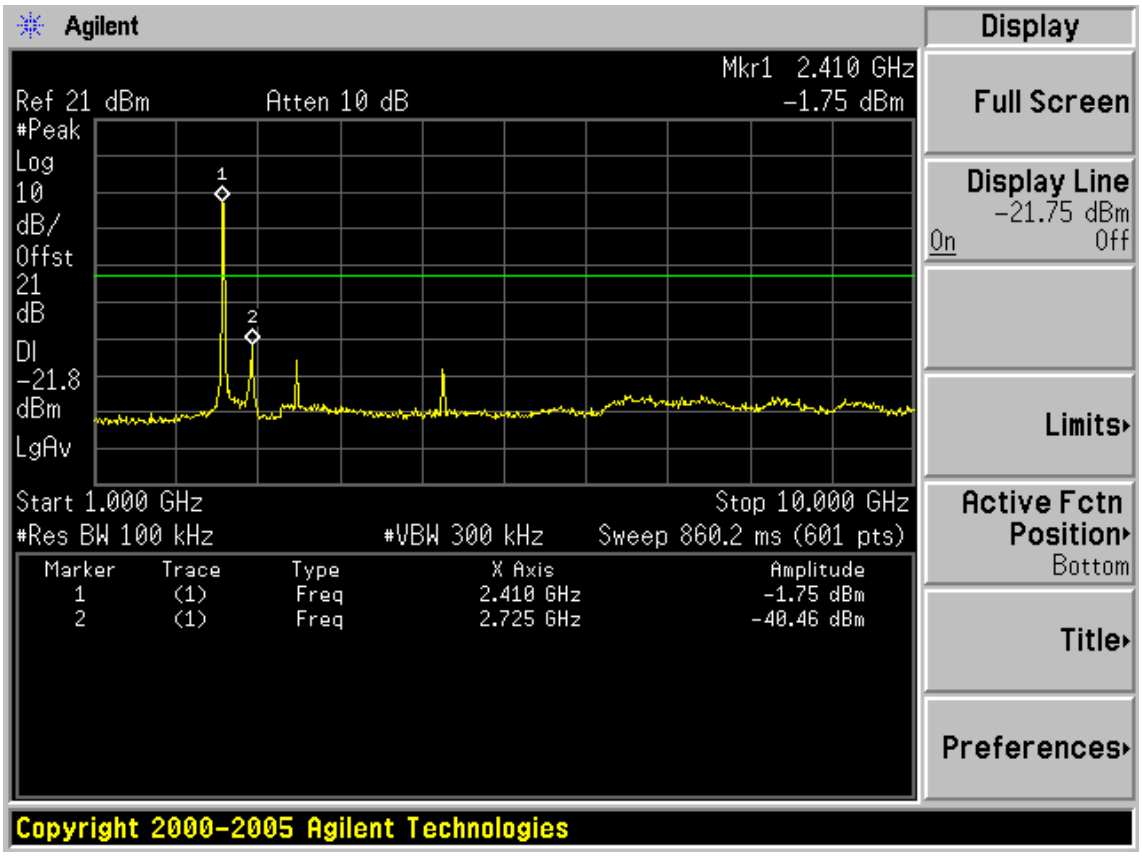


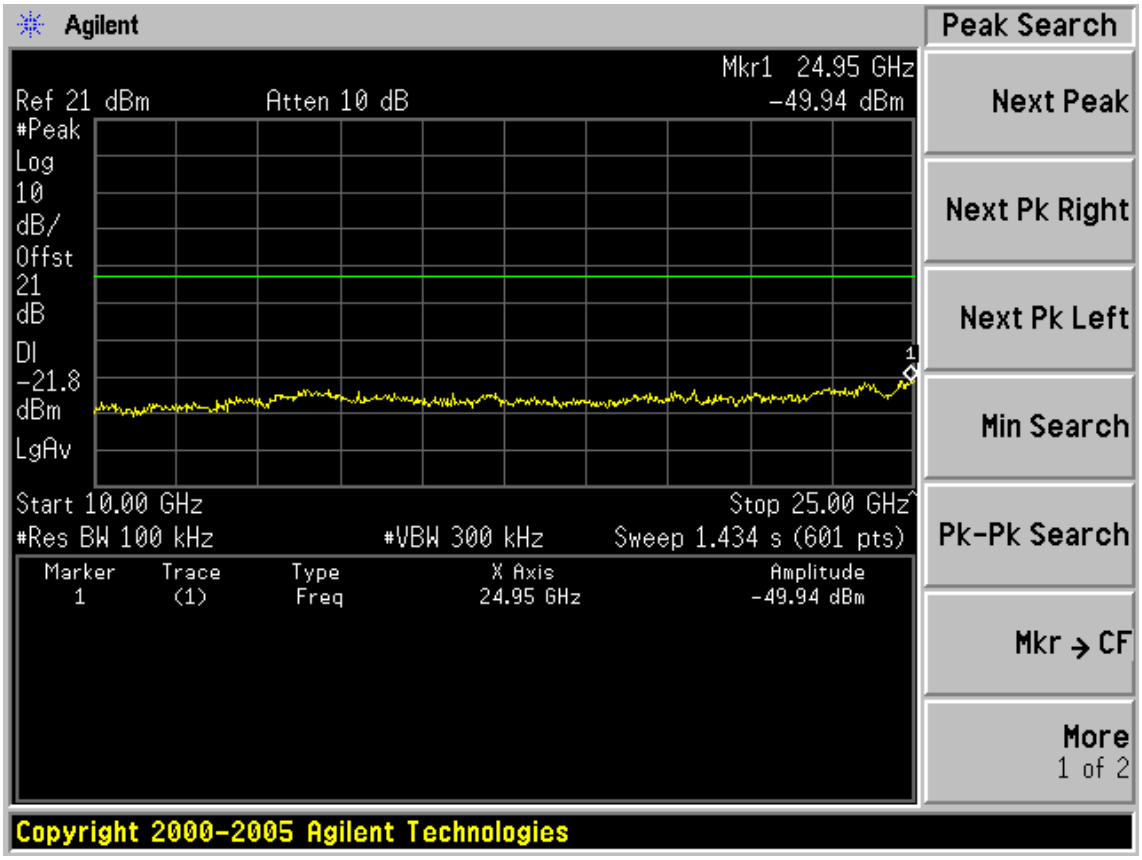


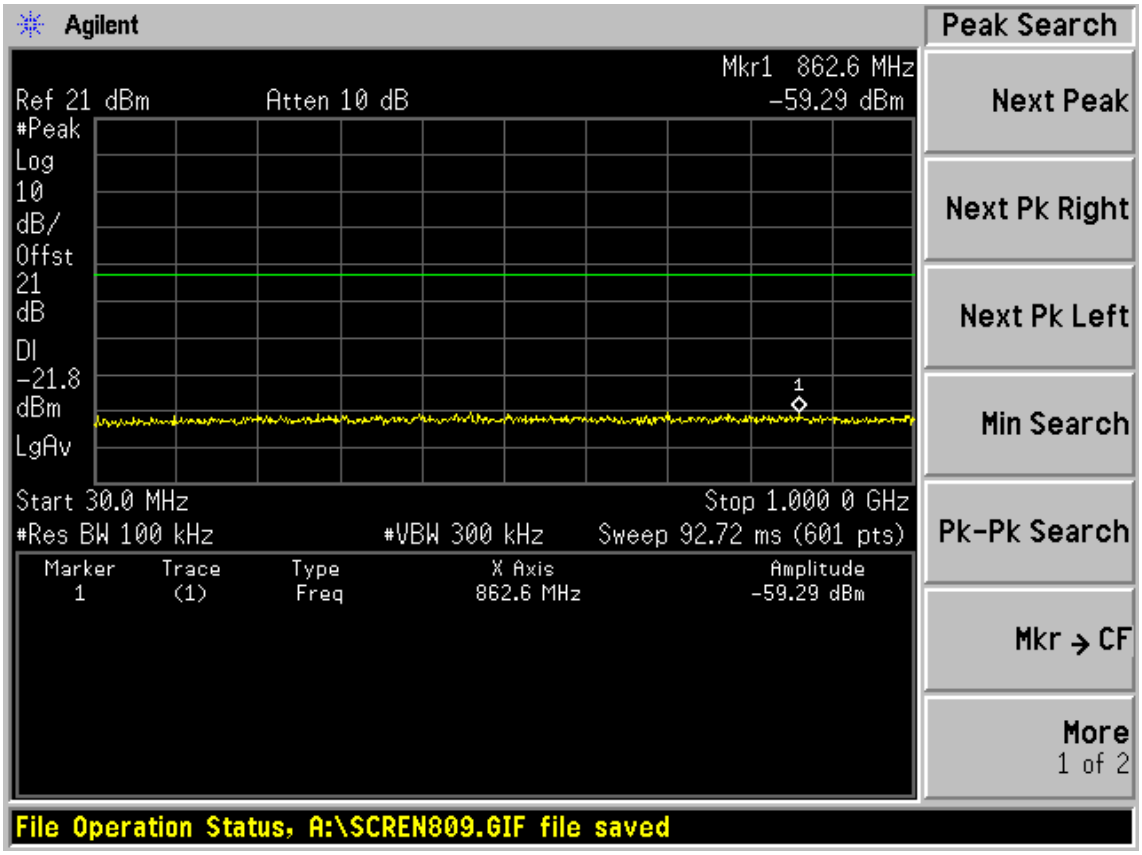

Agilent
Peak Search
Mkr1 988.7 MHz
Ref 21 dBm
Atten 10 dB
-59.74 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-19.8
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 988.7 MHz -59.74 dBm
Copyright 2000-2005 Agilent Technologies

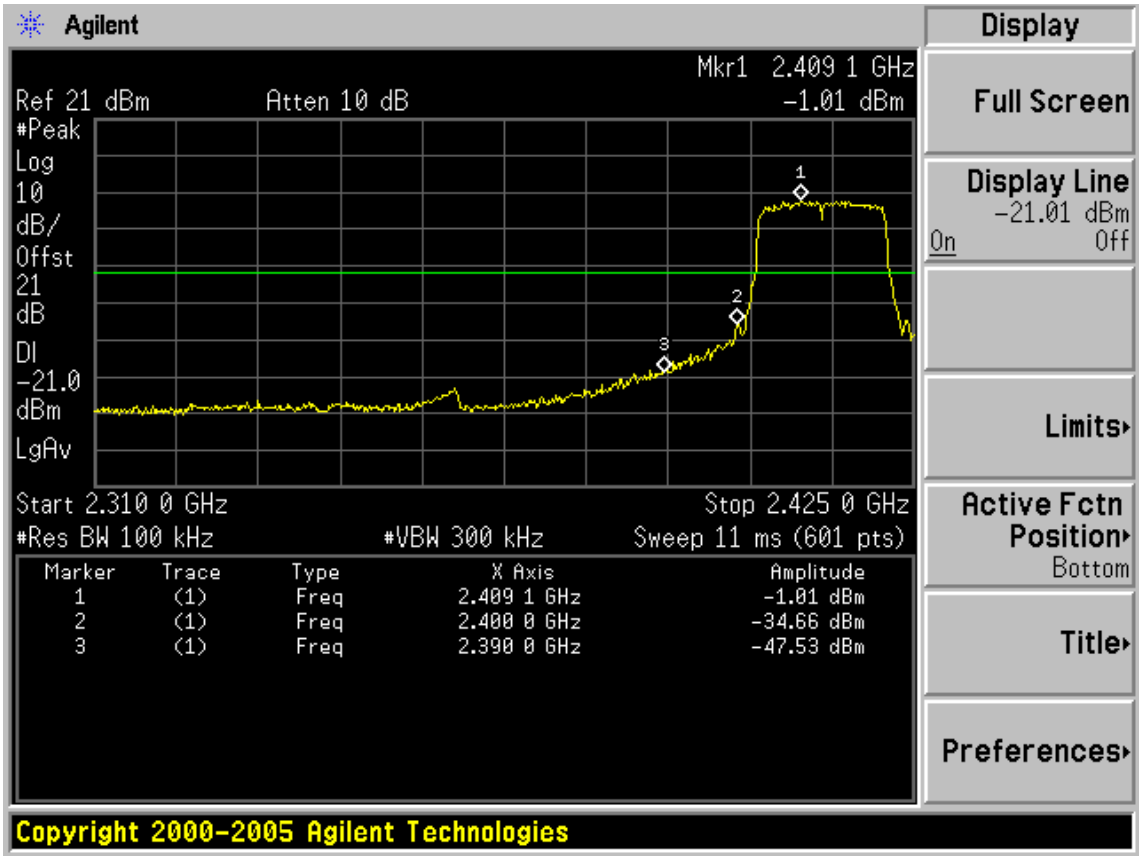

Agilent
Display
Mkr1 2.463 60 GHz
Ref 21 dBm
Atten 10 dB
-0.30 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-20.3
dBm
LgAv
Full Screen
Display Line
-20.30 dBm
On Off
Limits
Active Fctn
Position
Bottom
Title
Preferences
Start 2.450 00 GHz
Stop 2.510 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 5.76 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.463 60 GHz -0.30 dBm
2 (1) Freq 2.483 50 GHz -44.75 dBm
3 (1) Freq 2.500 00 GHz -54.00 dBm
Copyright 2000-2005 Agilent Technologies

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

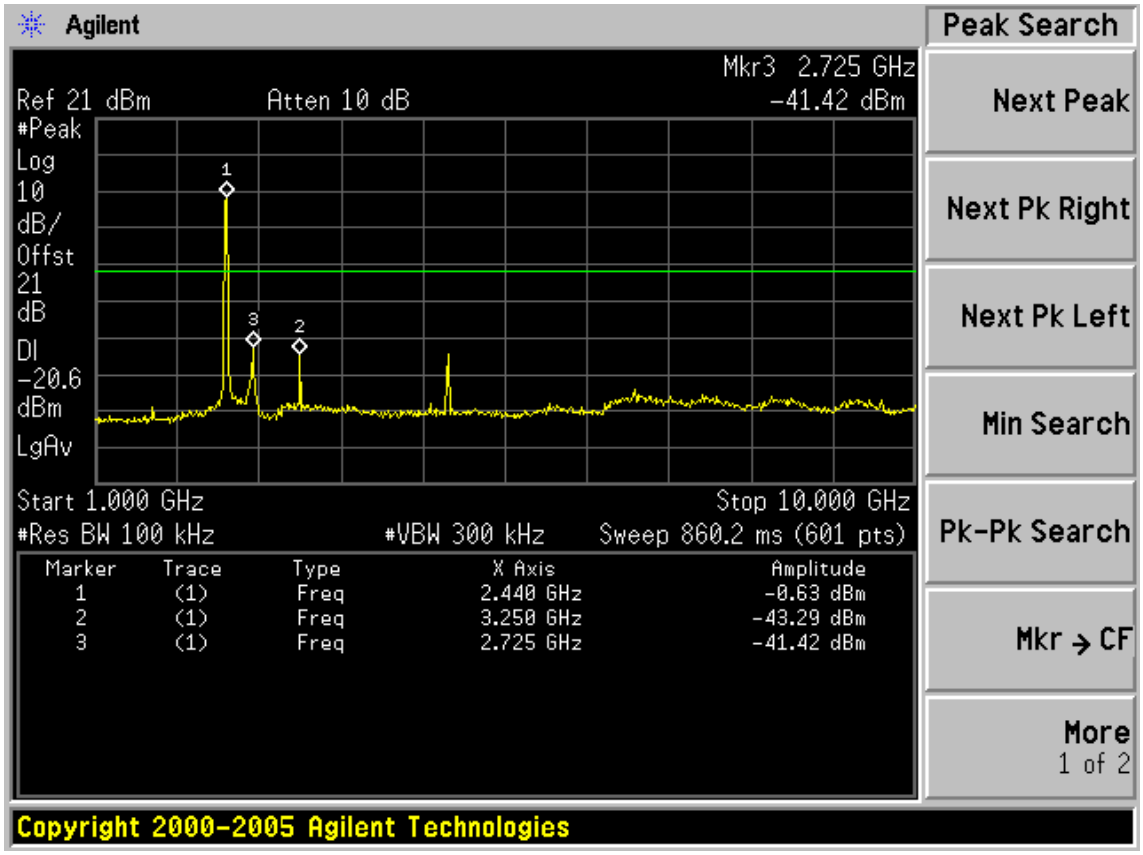


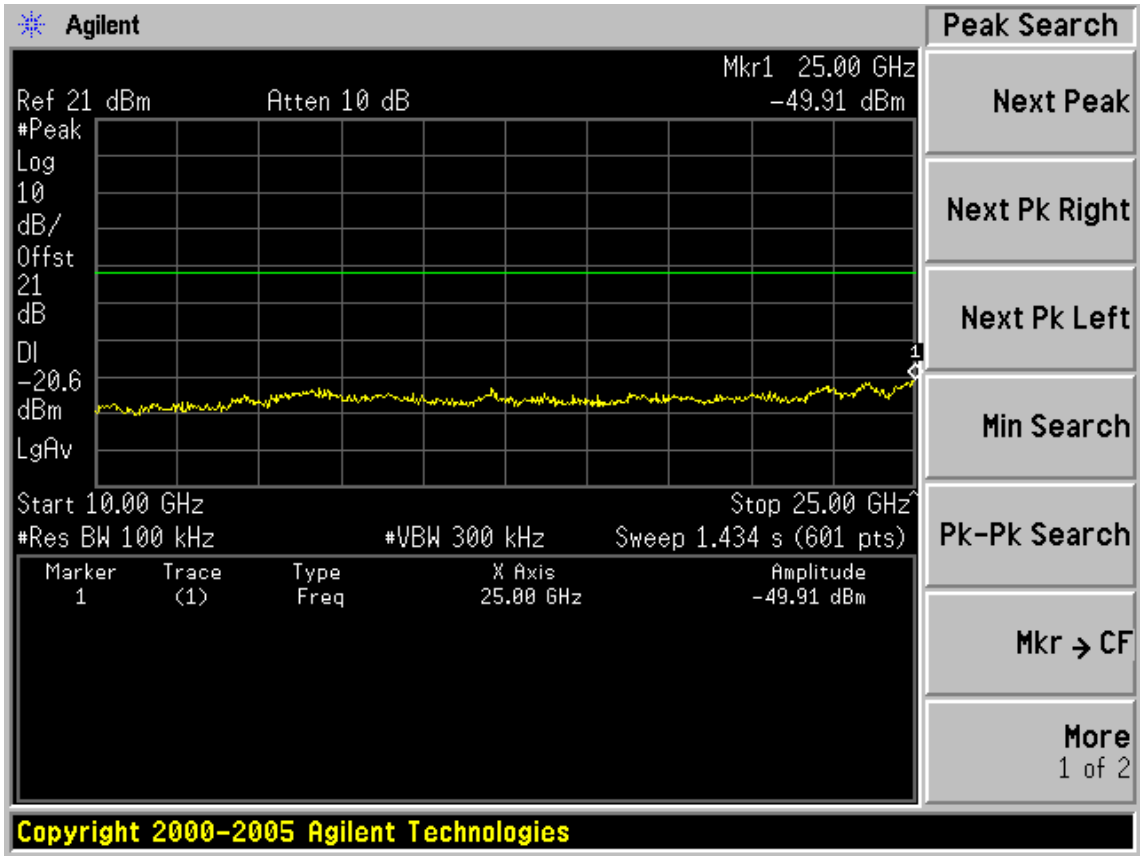


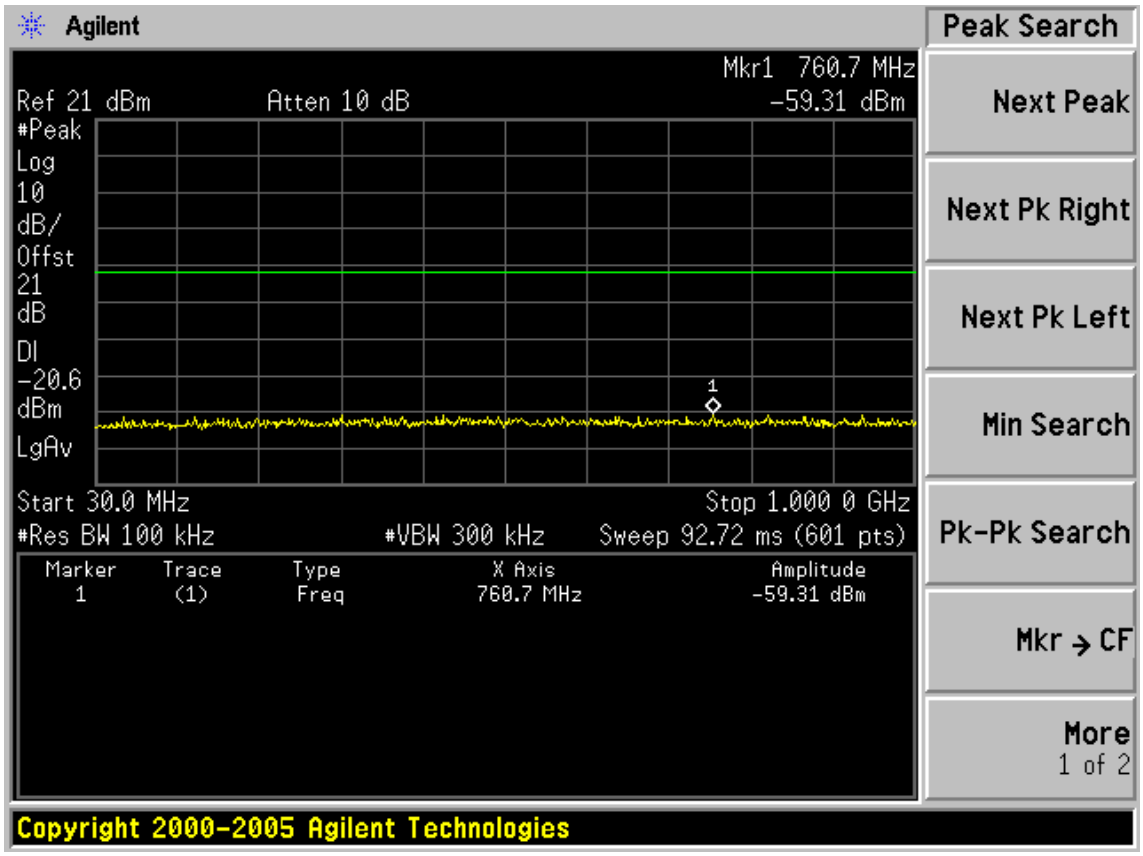

Agilent
Peak Search
Mkr1 862.6 MHz
Ref 21 dBm
Atten 10 dB
-59.29 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-21.8
dBm
LgAv
1
Next Peak
Next Pk Right
Next Pk Left
Min Search
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Pk-Pk Search
Marker Trace Type X Axis Amplitude
1 (1) Freq 862.6 MHz -59.29 dBm
Mkr → CF
More
1 of 2
File Operation Status, A:\SCREN809.GIF file saved


Agilent
Display
Mkr1 2.409 1 GHz
Ref 21 dBm
Atten 10 dB
-1.01 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-21.0
dBm
LgAv
1
2
3
Full Screen
Display Line
-21.01 dBm
On
Off
Limits
Start 2.310 0 GHz
Stop 2.425 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 11 ms (601 pts)
Active Fctn
Position
Bottom
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.409 1 GHz -1.01 dBm
2 (1) Freq 2.400 0 GHz -34.66 dBm
3 (1) Freq 2.390 0 GHz -47.53 dBm
Title
Preferences
Copyright 2000-2005 Agilent Technologies

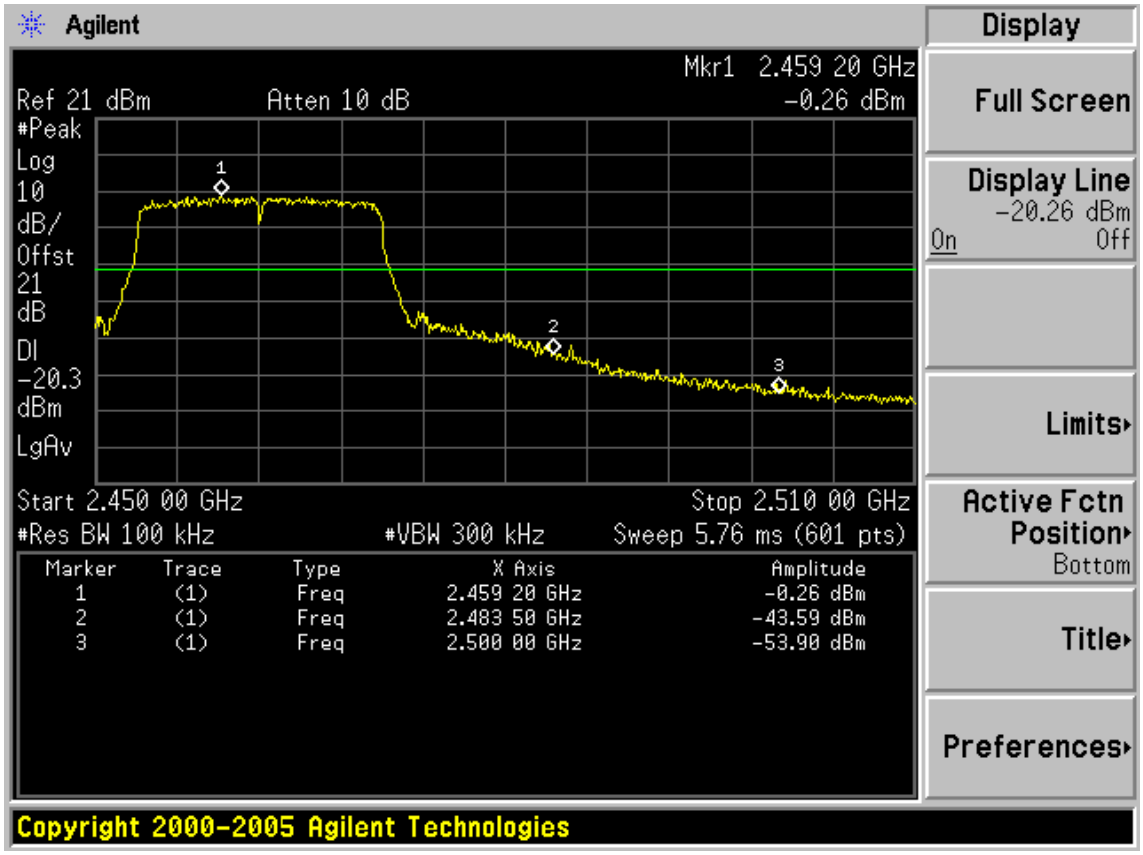
Test CH6: 2437MHz

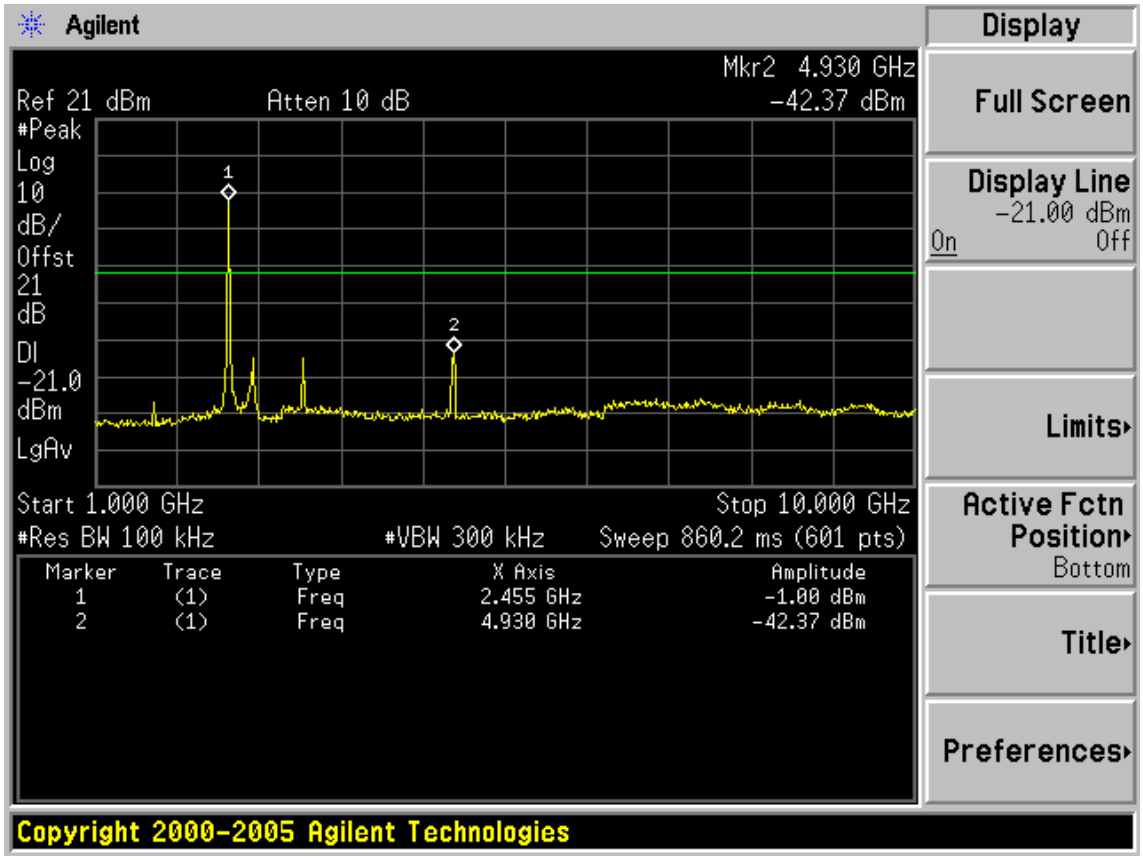


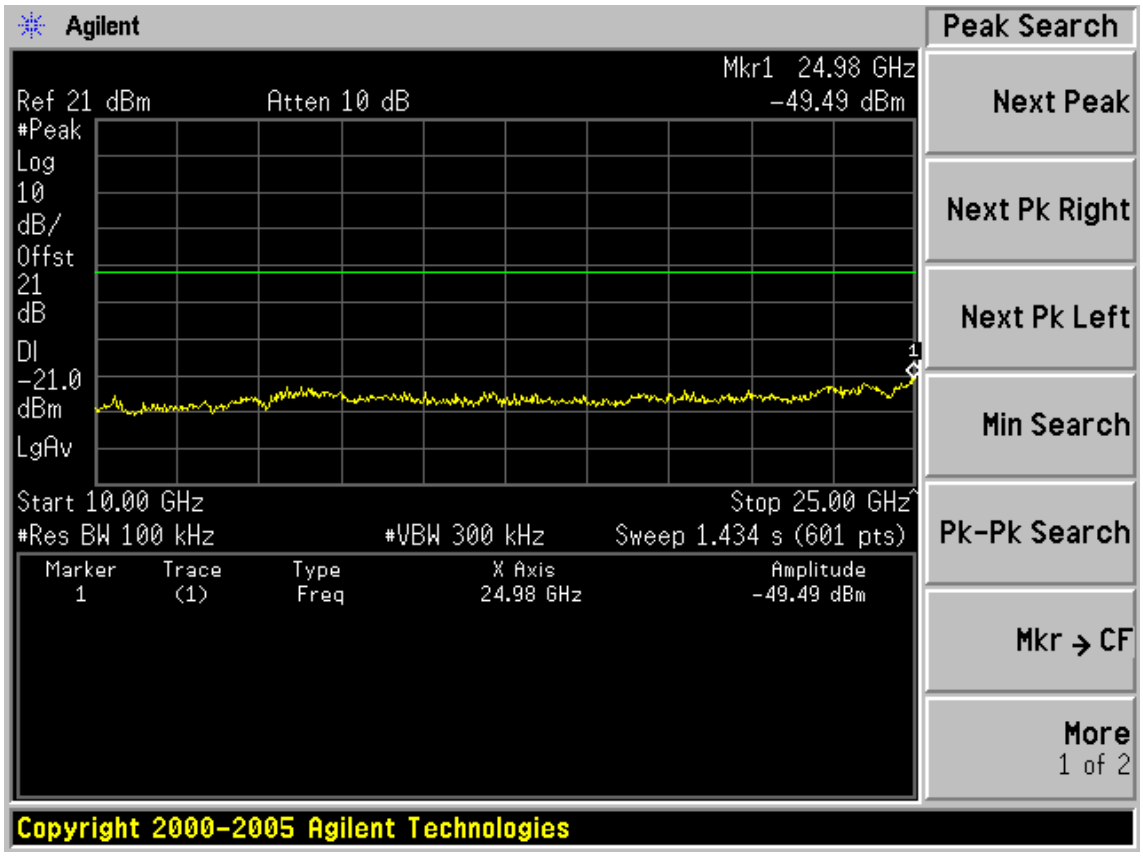


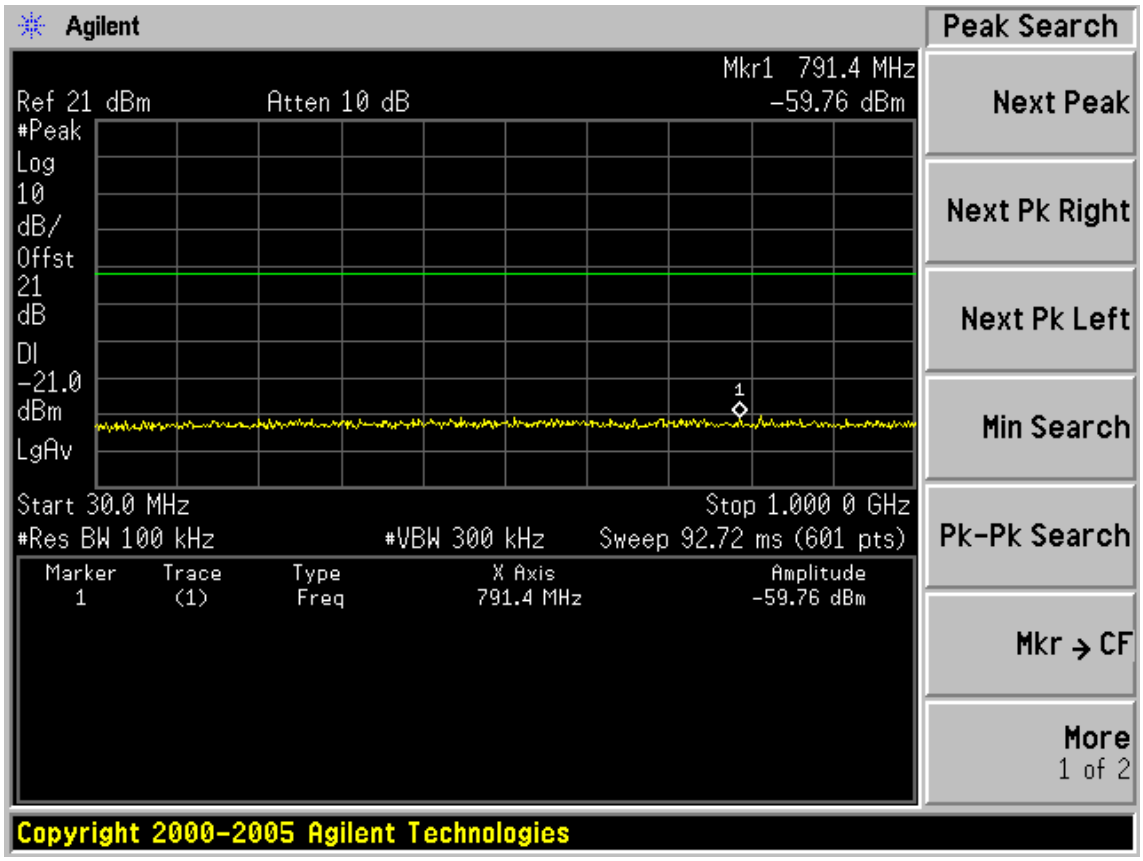

Agilent
Peak Search
Mkr1 760.7 MHz
Ref 21 dBm
Atten 10 dB
-59.31 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-20.6
dBm
LgAv
1
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 760.7 MHz -59.31 dBm
Copyright 2000-2005 Agilent Technologies

Test CH11: 2462MHz

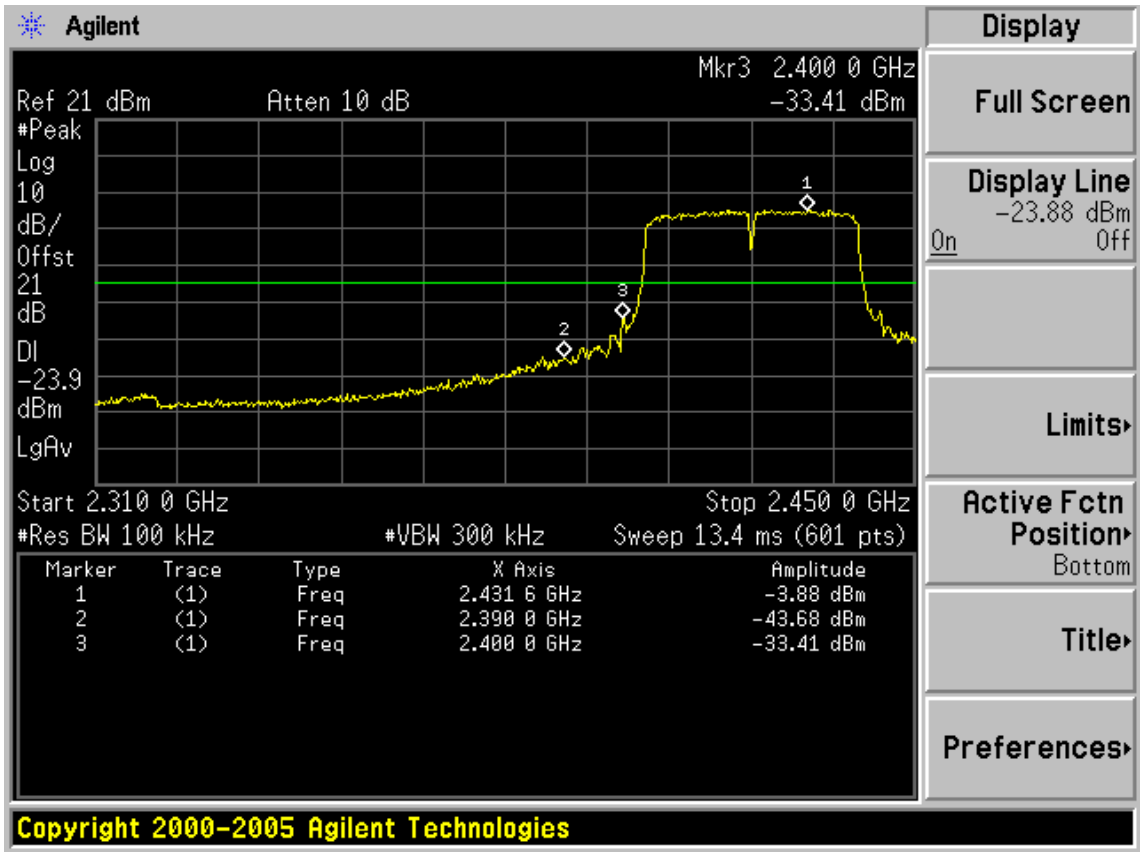


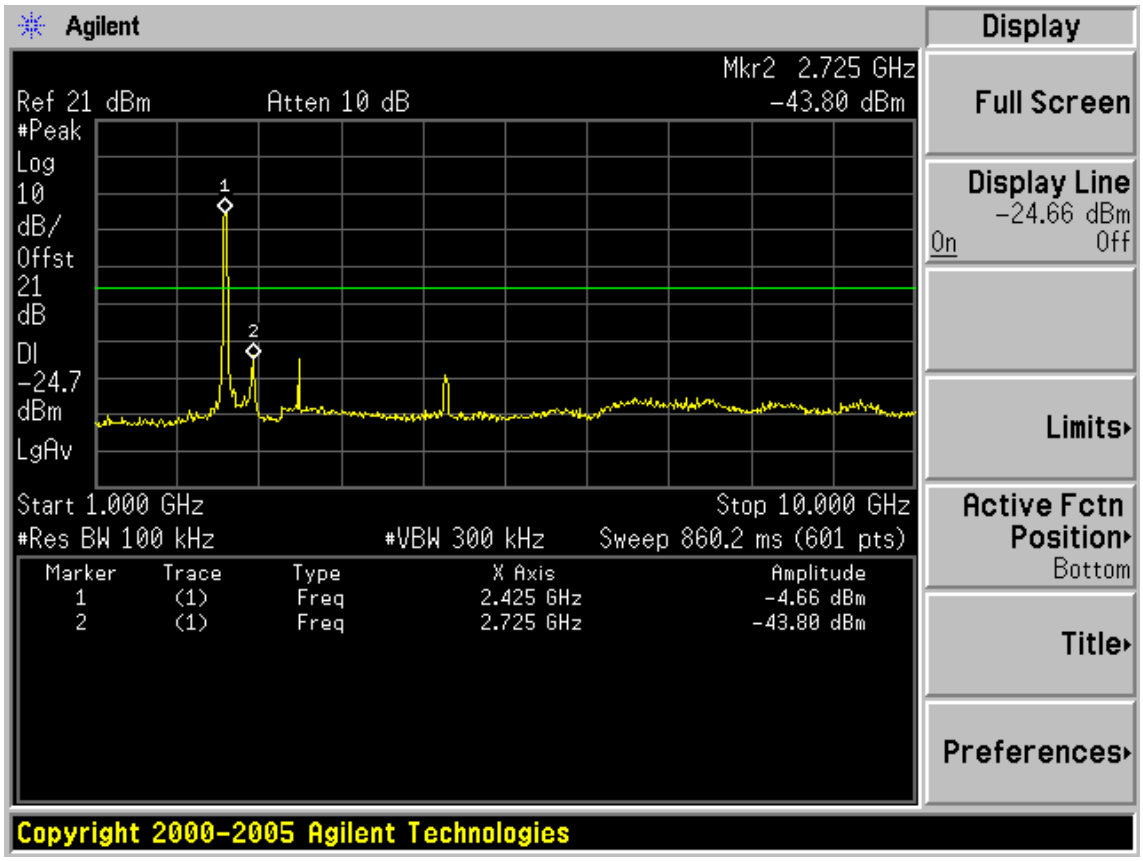


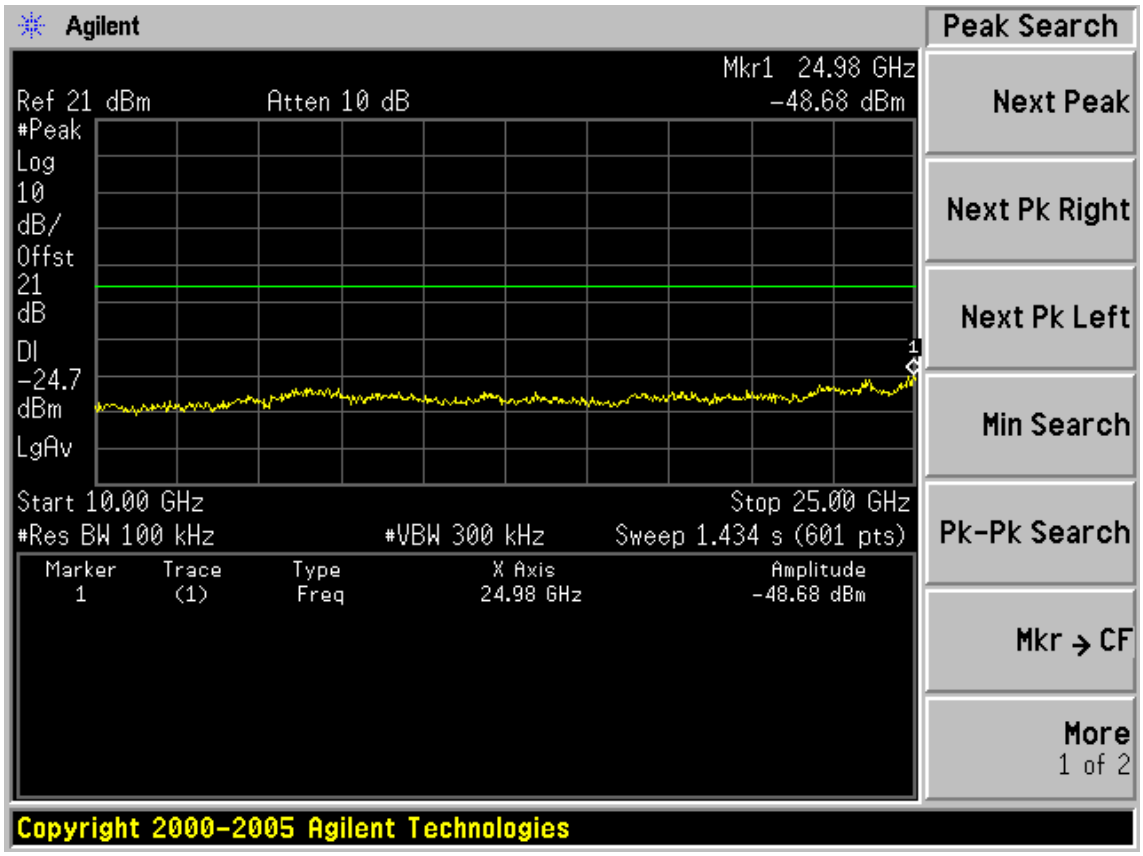

Agilent
Peak Search
Mkr1 24.98 GHz
Ref 21 dBm
Atten 10 dB
-49.49 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-21.0
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 10.00 GHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.434 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.98 GHz -49.49 dBm
Copyright 2000-2005 Agilent Technologies

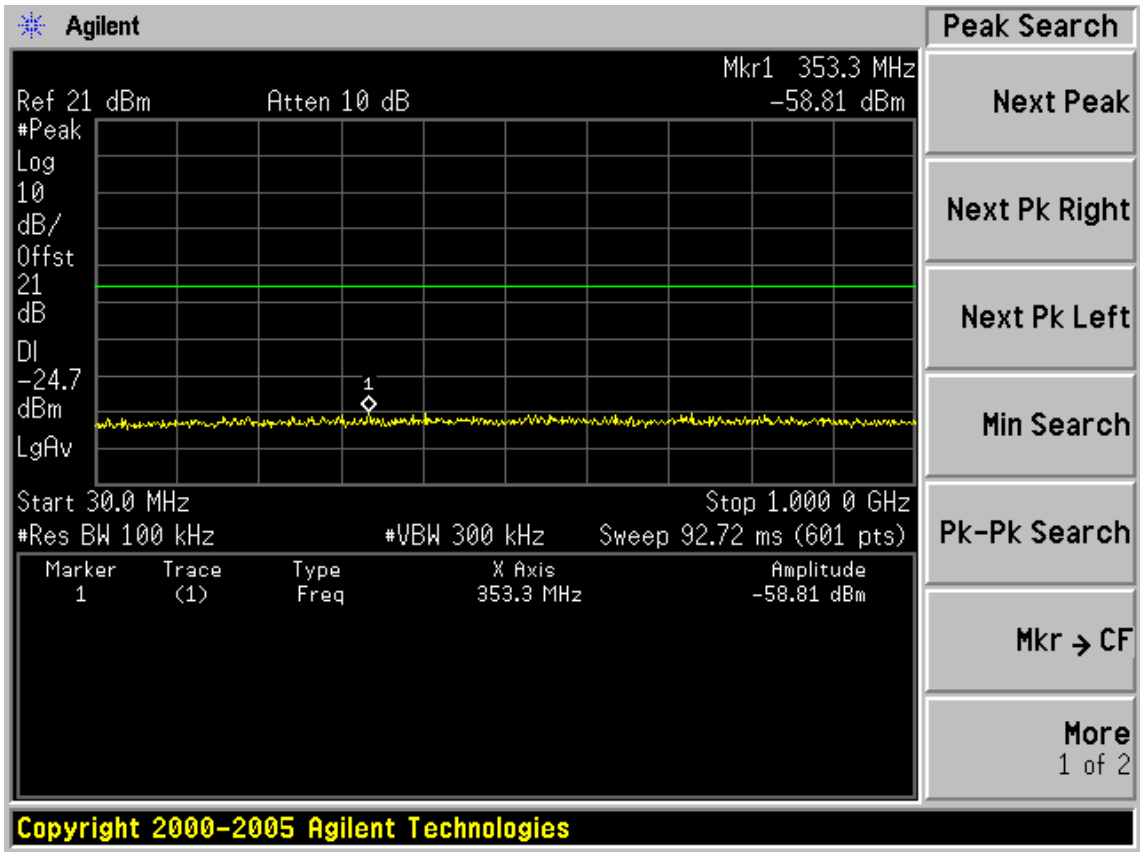

Agilent
Peak Search
Mkr1 791.4 MHz
Ref 21 dBm
Atten 10 dB
-59.76 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-21.0
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 791.4 MHz -59.76 dBm
Copyright 2000-2005 Agilent Technologies

Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz

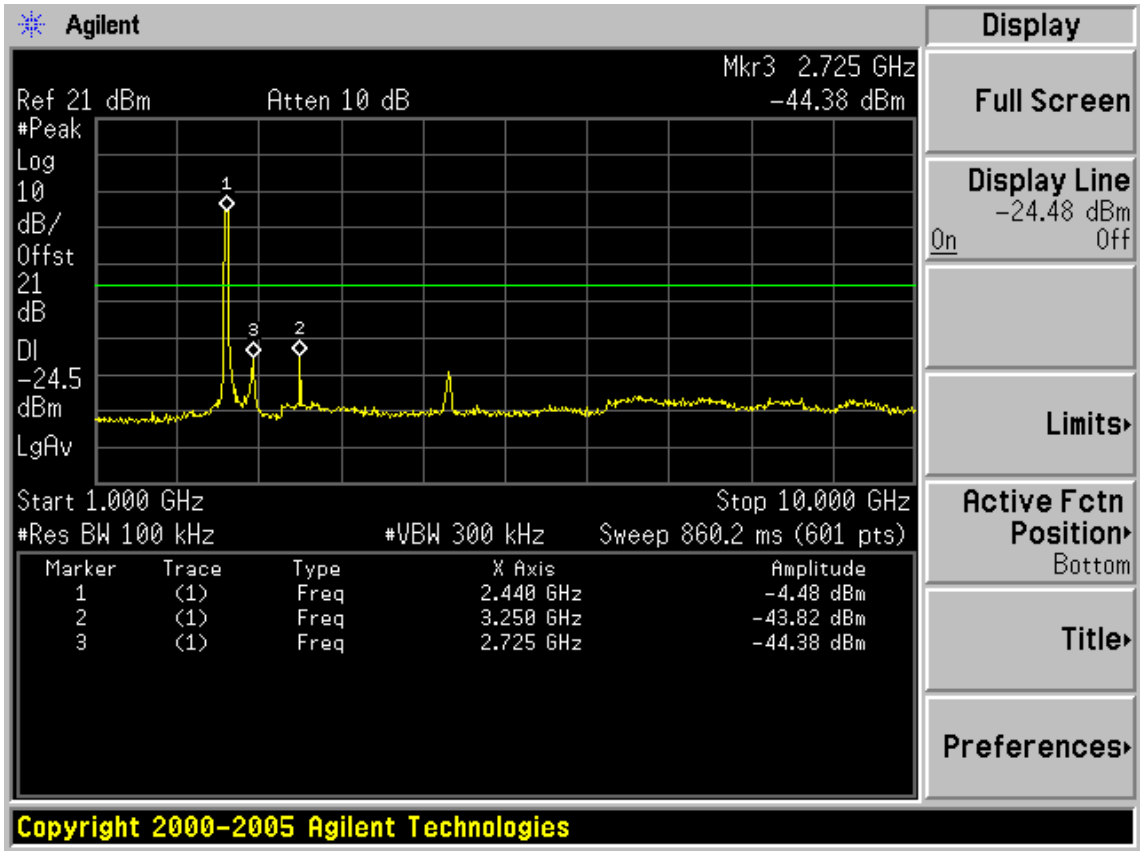


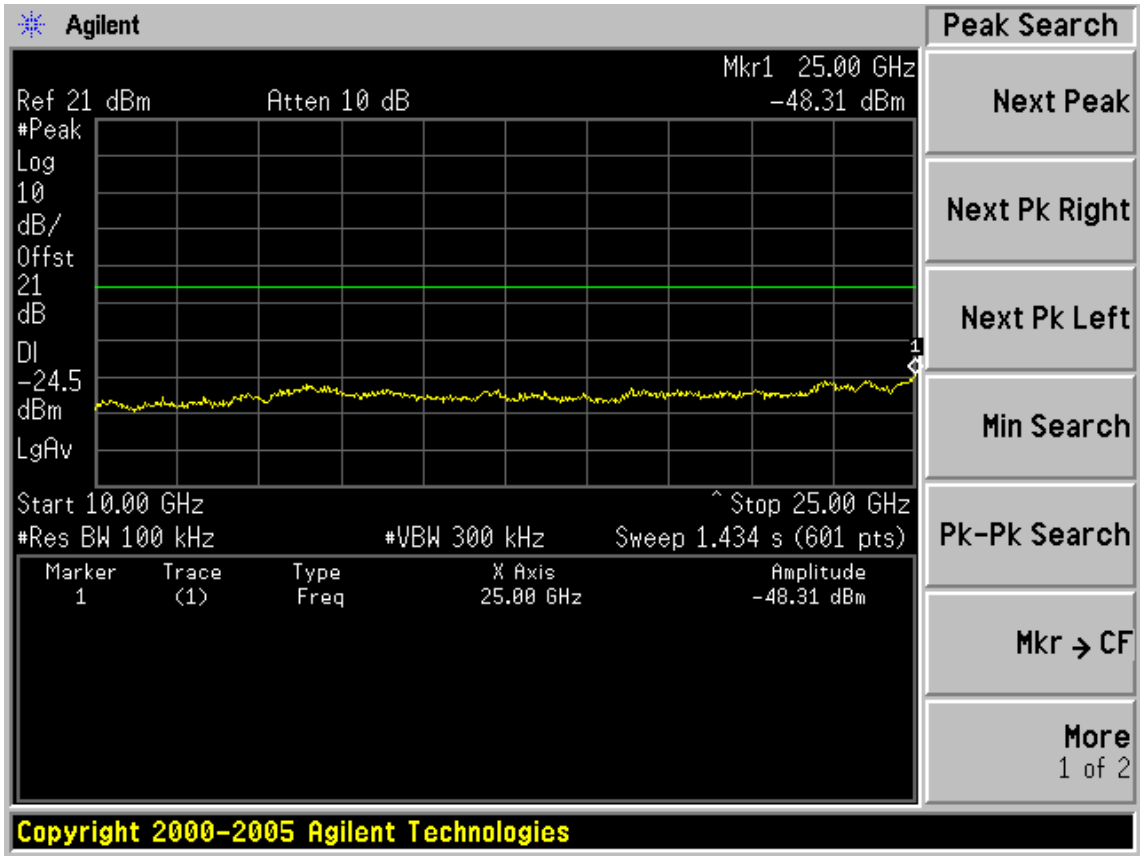


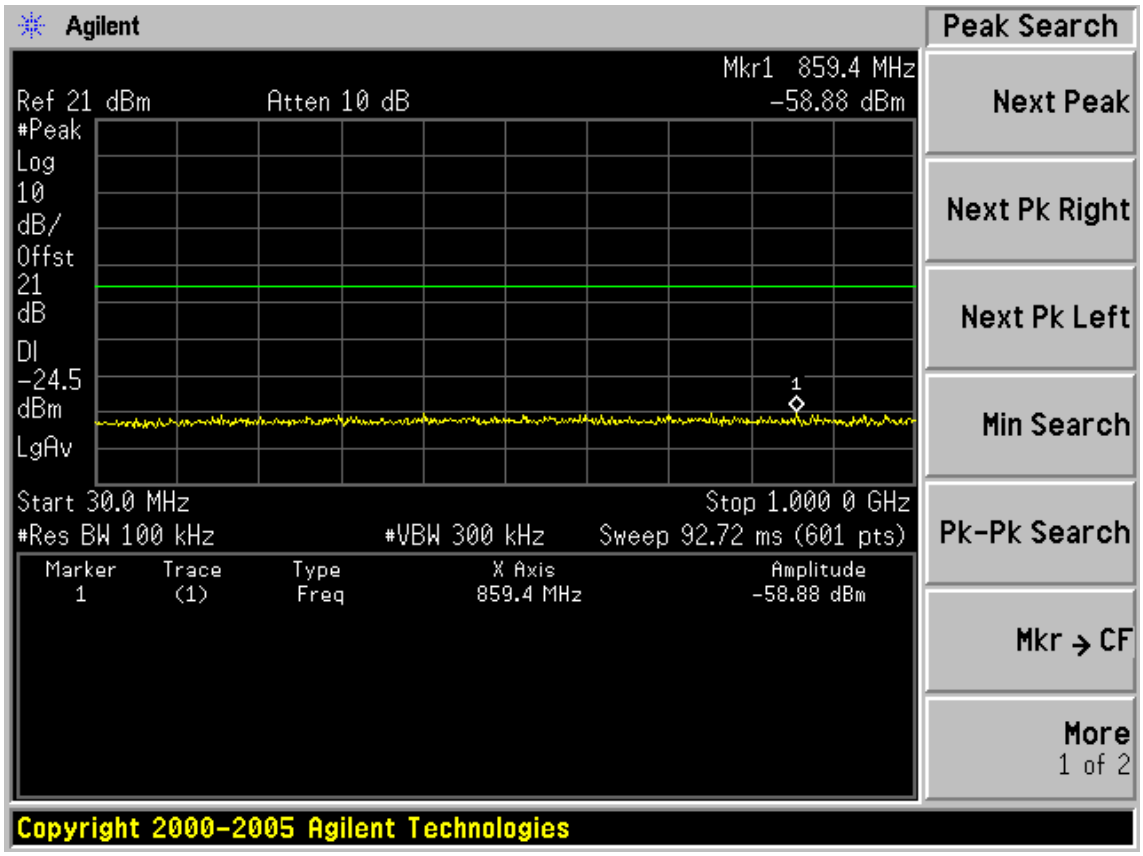

Agilent
Peak Search
Mkr1 24.98 GHz
Ref 21 dBm
Atten 10 dB
-48.68 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-24.7
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 10.00 GHz
Stop 25.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.434 s (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.98 GHz -48.68 dBm
Copyright 2000-2005 Agilent Technologies


Agilent
Peak Search
Mkr1 353.3 MHz
Ref 21 dBm
Atten 10 dB
-58.81 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-24.7
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 353.3 MHz -58.81 dBm
Copyright 2000-2005 Agilent Technologies

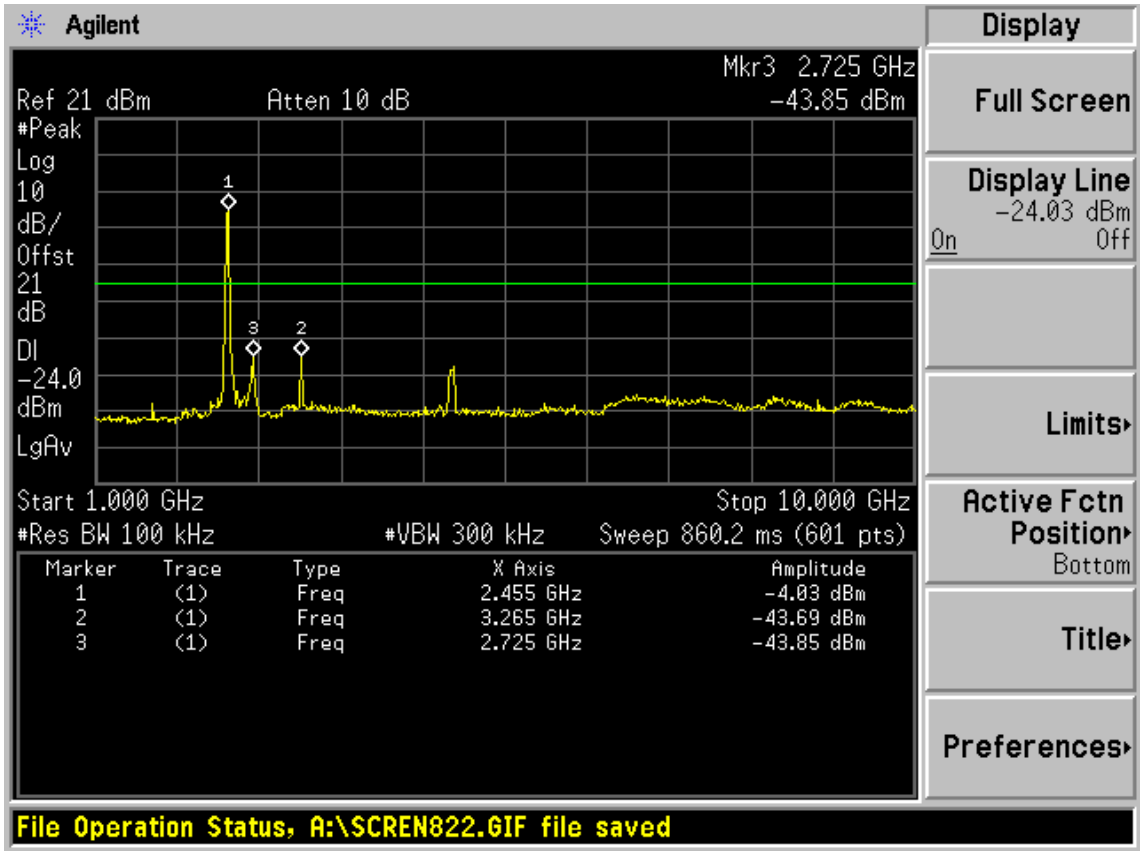
Test CH4: 2437MHz

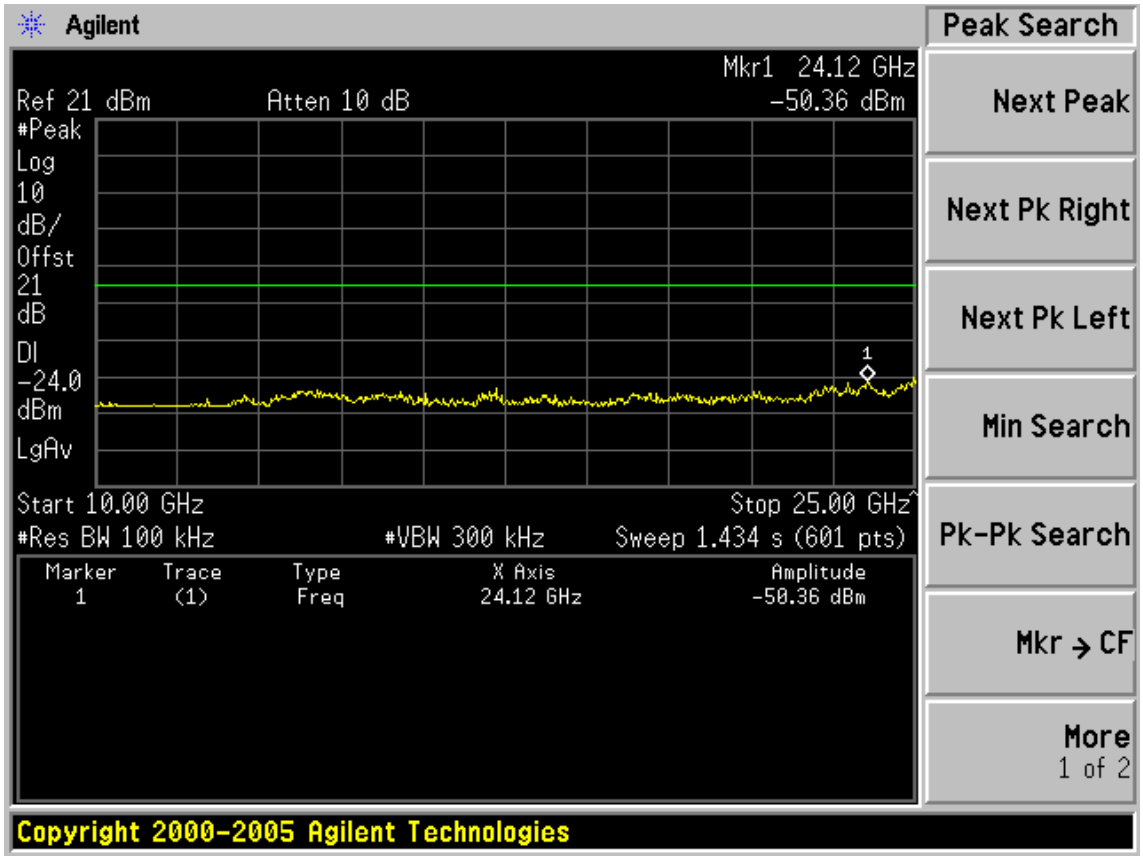


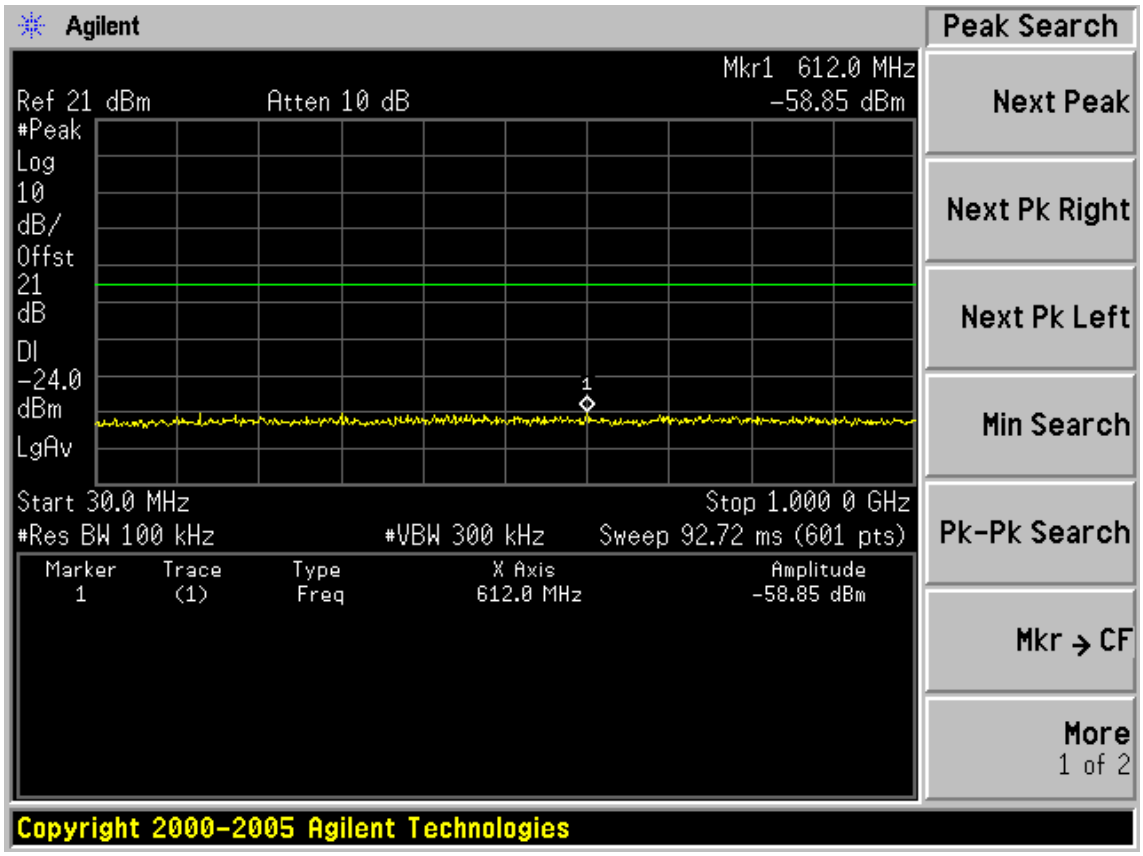


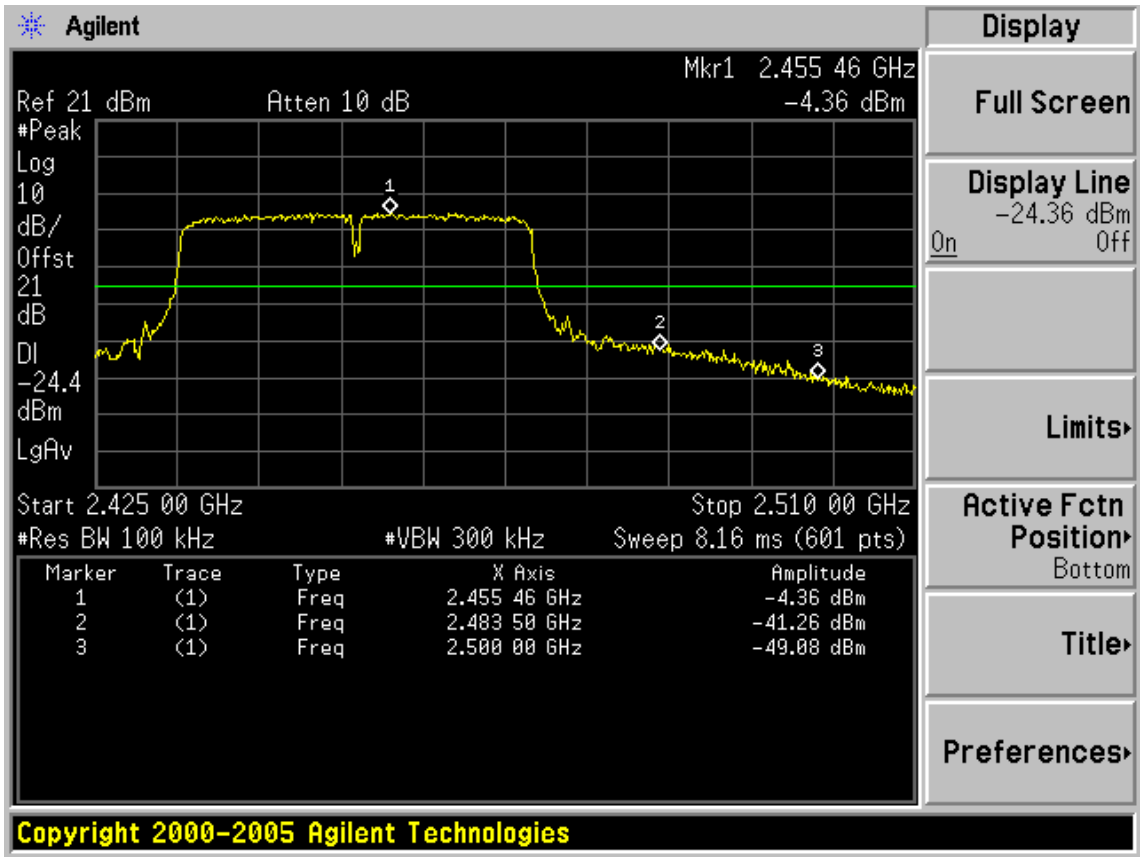

Agilent
Peak Search
Mkr1 859.4 MHz
Ref 21 dBm
Atten 10 dB
-58.88 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-24.5
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 859.4 MHz -58.88 dBm
Copyright 2000-2005 Agilent Technologies

Test CH7: 2452MHz






Agilent
Peak Search
Mkr1 612.0 MHz
Ref 21 dBm
Atten 10 dB
-58.85 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-24.0
dBm
LgAv
Next Peak
Next Pk Right
Next Pk Left
Min Search
Pk-Pk Search
Mkr → CF
More
1 of 2
Start 30.0 MHz
Stop 1.000 0 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 92.72 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 612.0 MHz -58.85 dBm
Copyright 2000-2005 Agilent Technologies


Agilent
Display
Mkr1 2.455 46 GHz
Ref 21 dBm
Atten 10 dB
-4.36 dBm
#Peak
Log
10
dB/
Offst
21
dB
Dl
-24.4
dBm
LgAv
Full Screen
Display Line
-24.36 dBm
On Off
Limits
Active Fctn
Position
Bottom
Title
Preferences
Start 2.425 00 GHz
Stop 2.510 00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 8.16 ms (601 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.455 46 GHz -4.36 dBm
2 (1) Freq 2.483 50 GHz -41.26 dBm
3 (1) Freq 2.500 00 GHz -49.08 dBm
Copyright 2000-2005 Agilent Technologies

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, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	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.

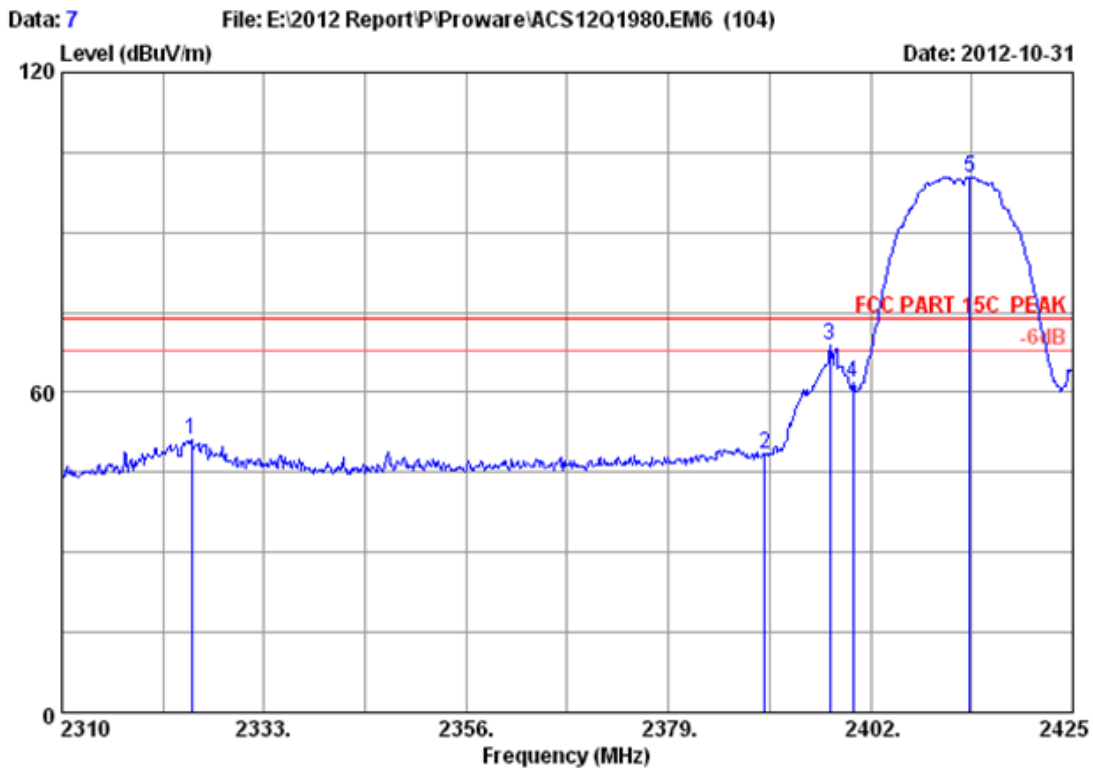
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

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

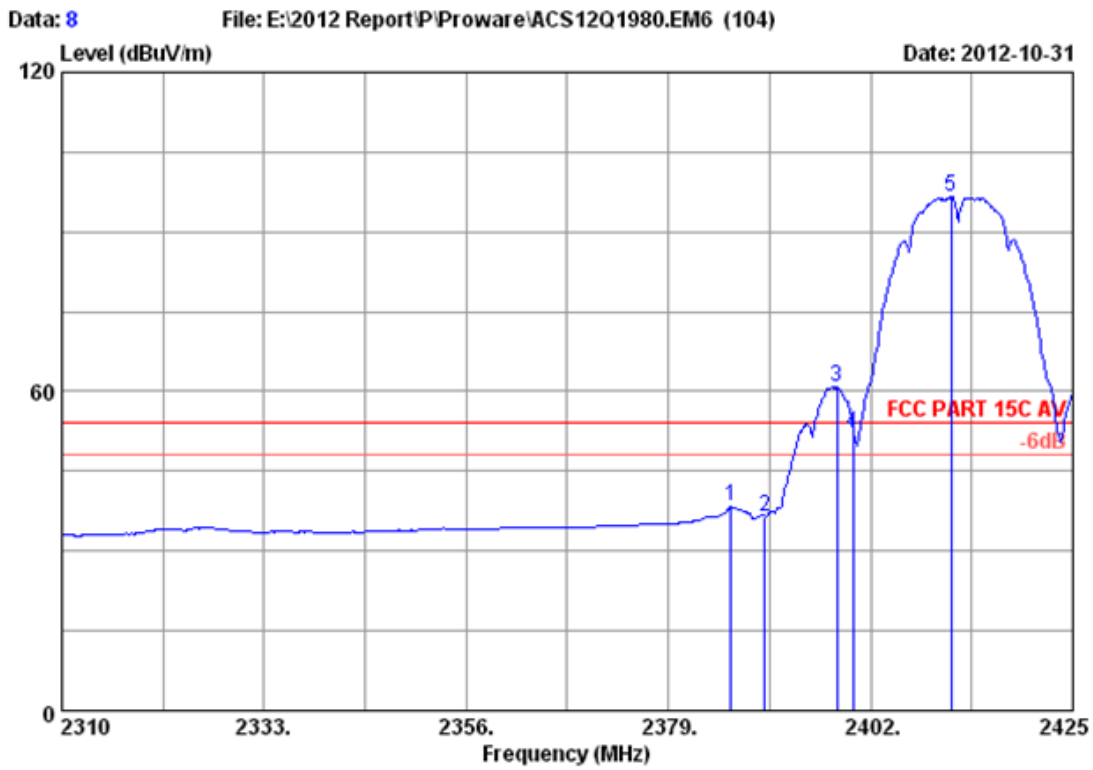
Pass (The testing data was attached in the next pages.)



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 : Leo-Li
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 : PW-3G401M

	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	2324.720	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

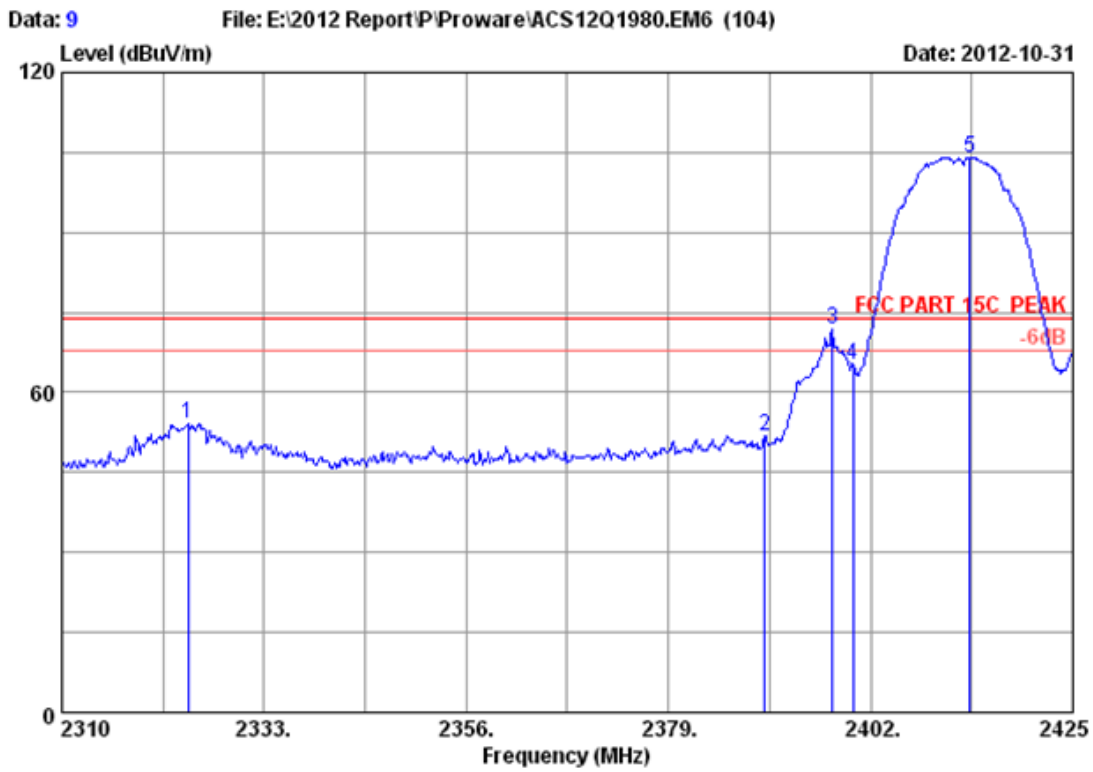
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

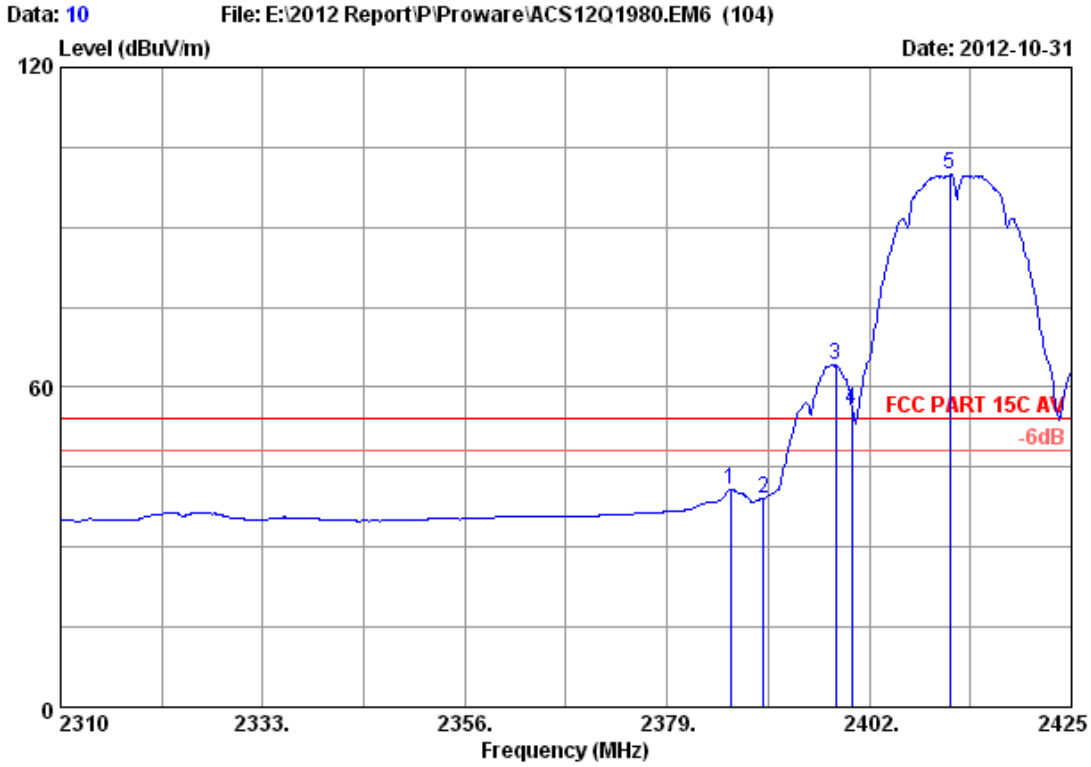
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

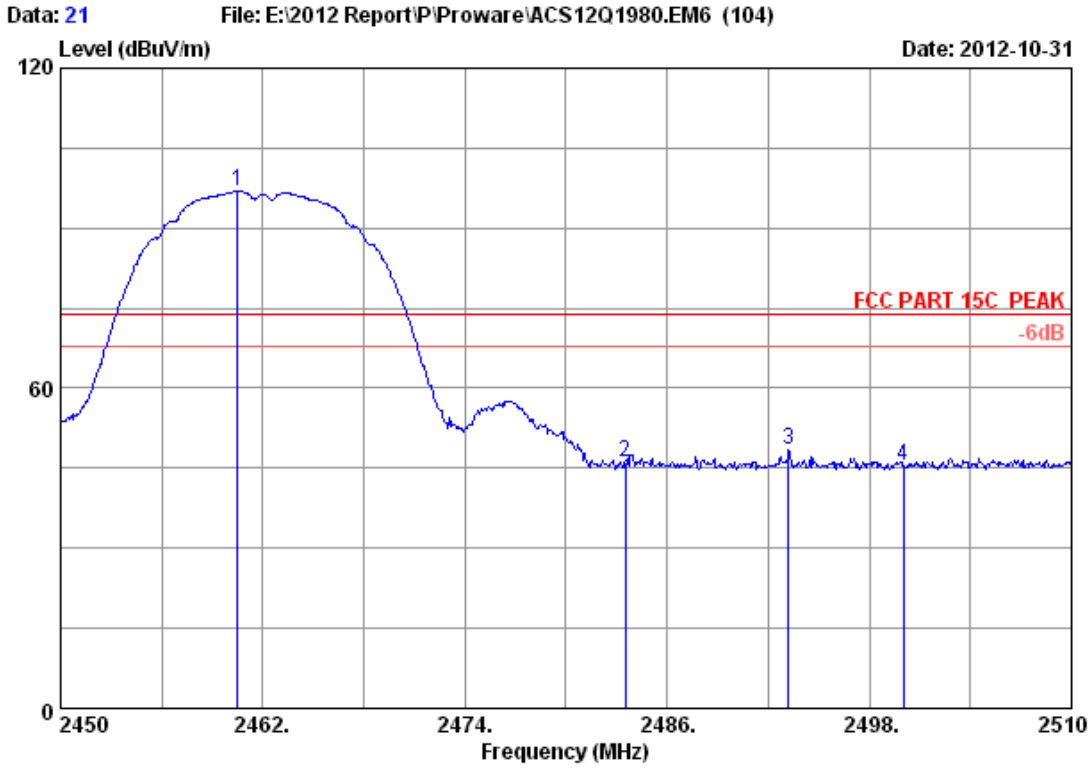
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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	2386.245	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

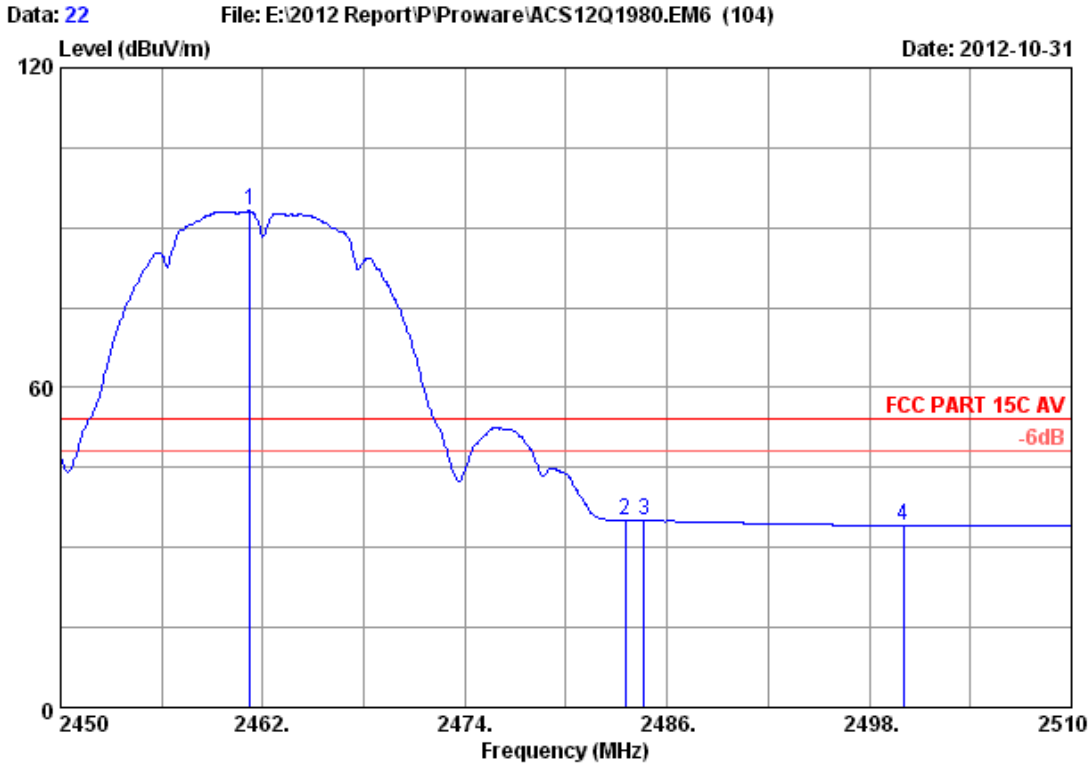
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

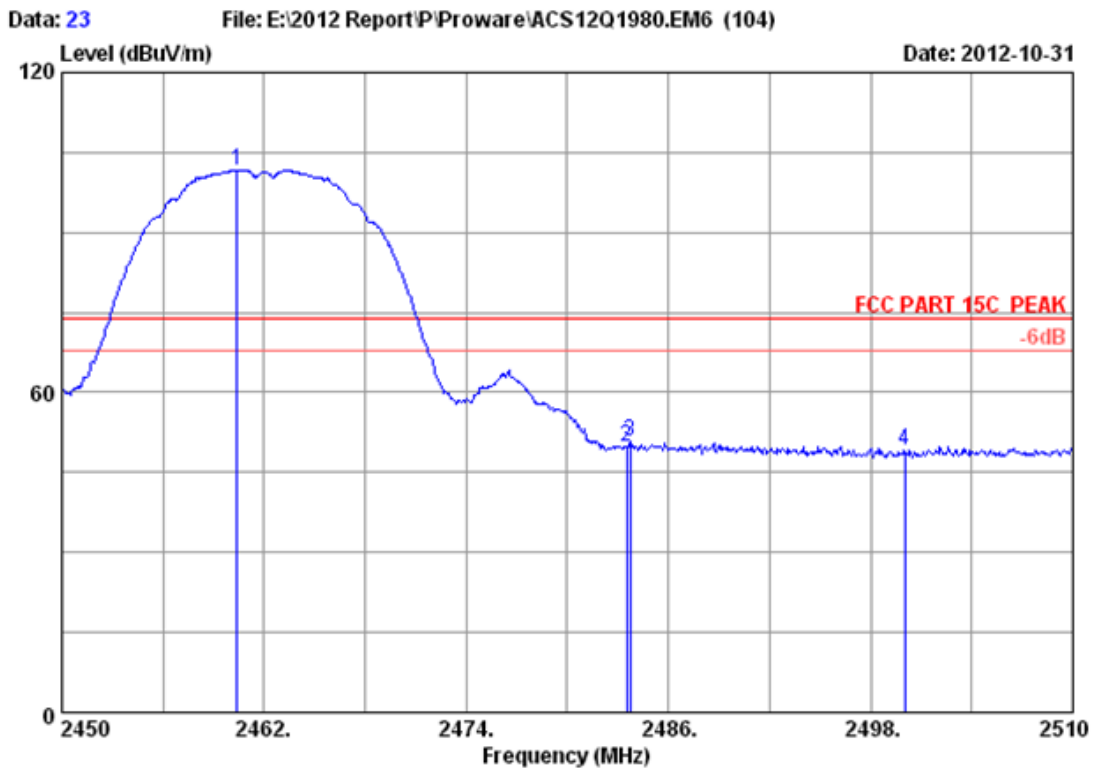
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

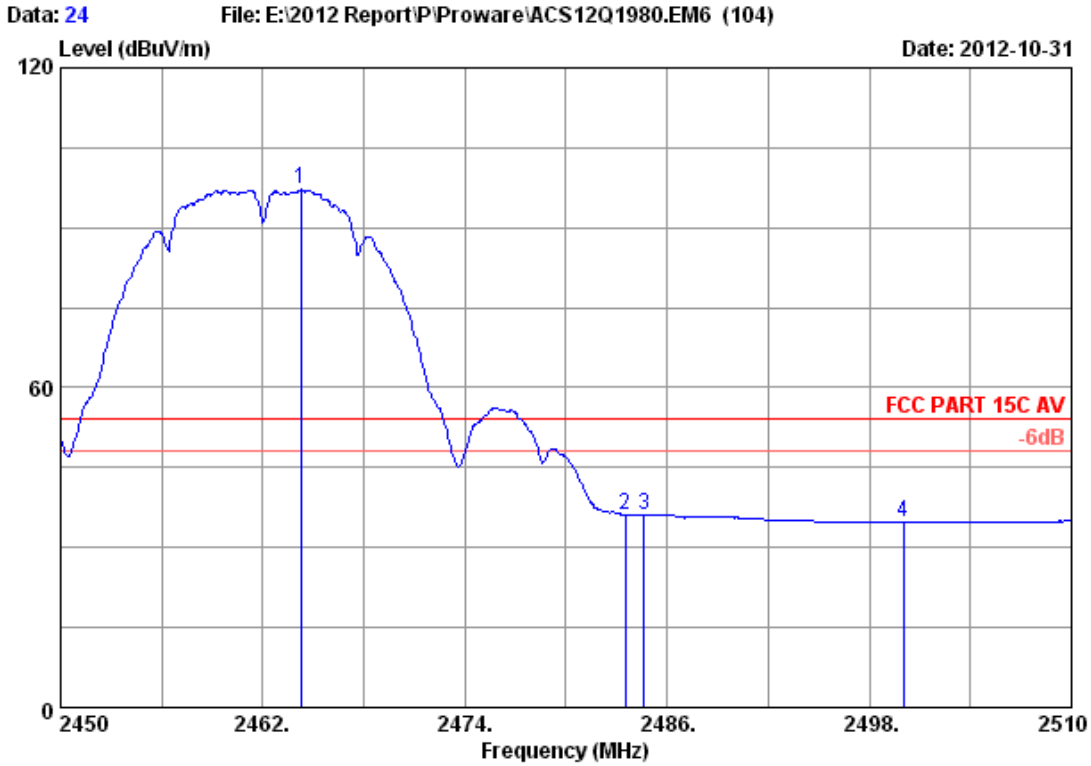
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

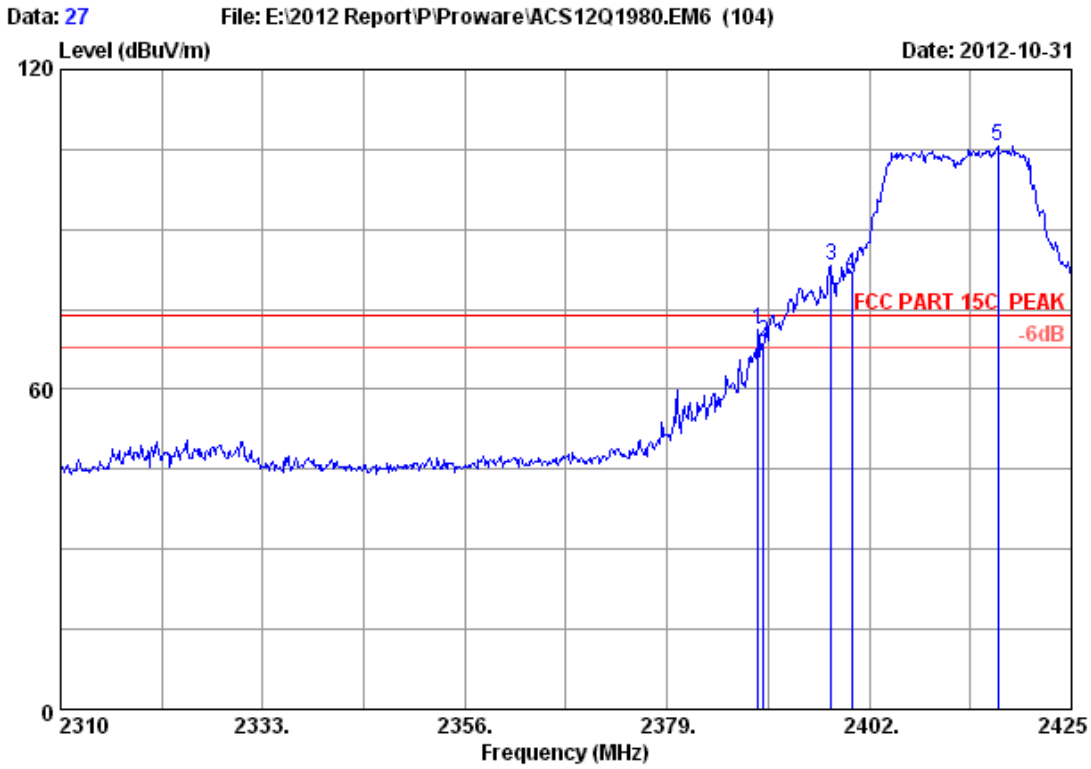
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 24
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Leo-Li
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 : PW-3G401M

	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

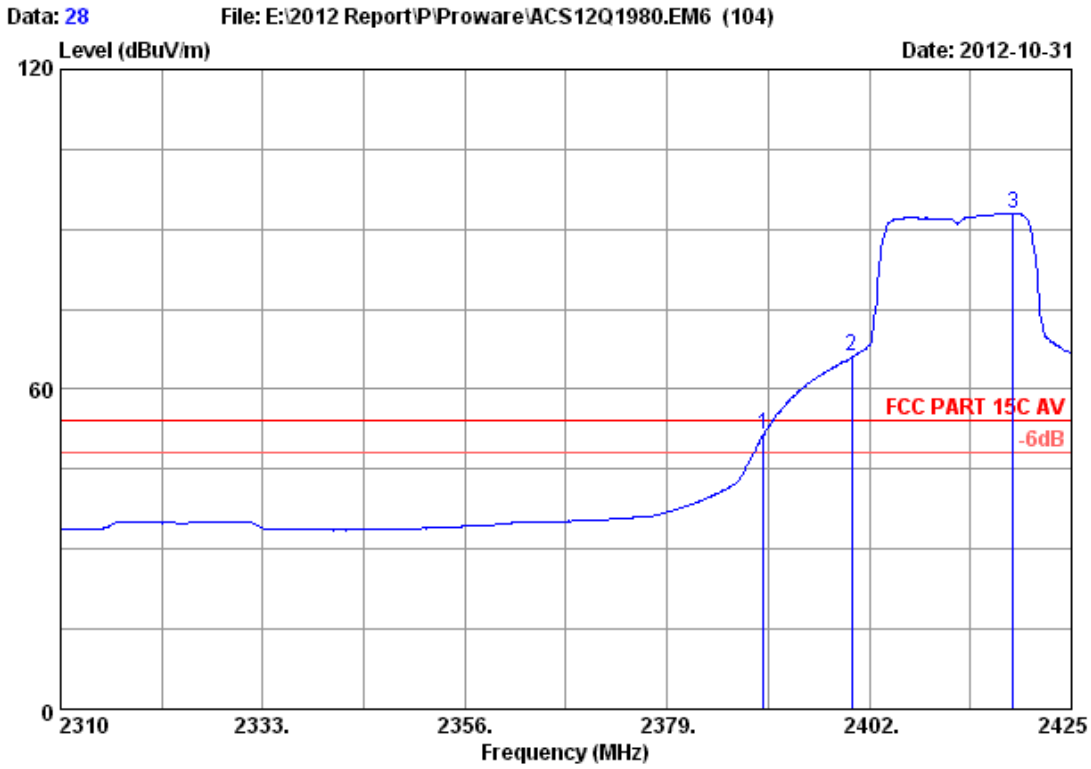
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

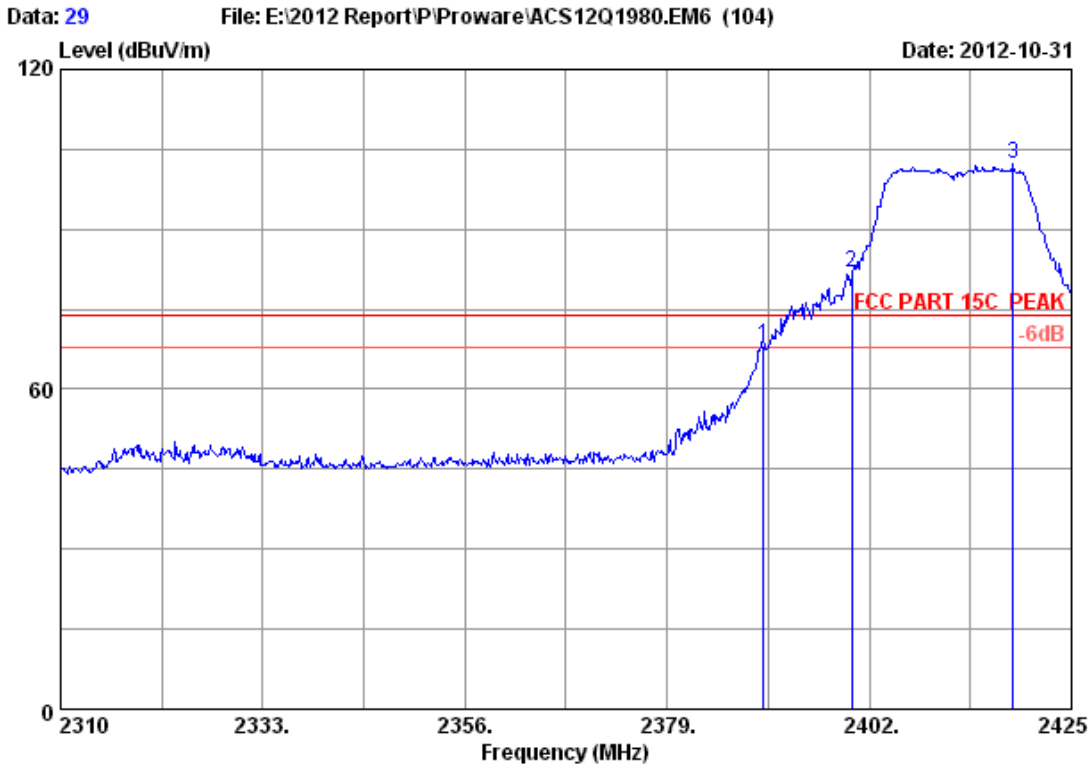
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

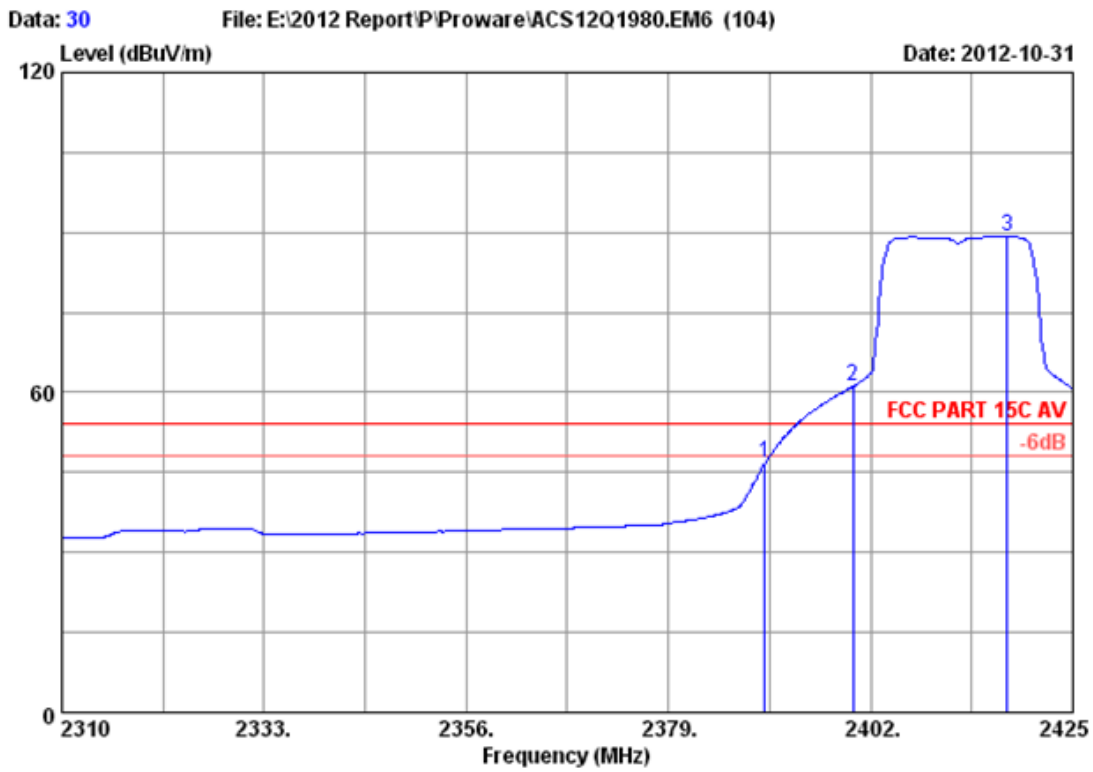
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
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 : PW-3G401M

	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

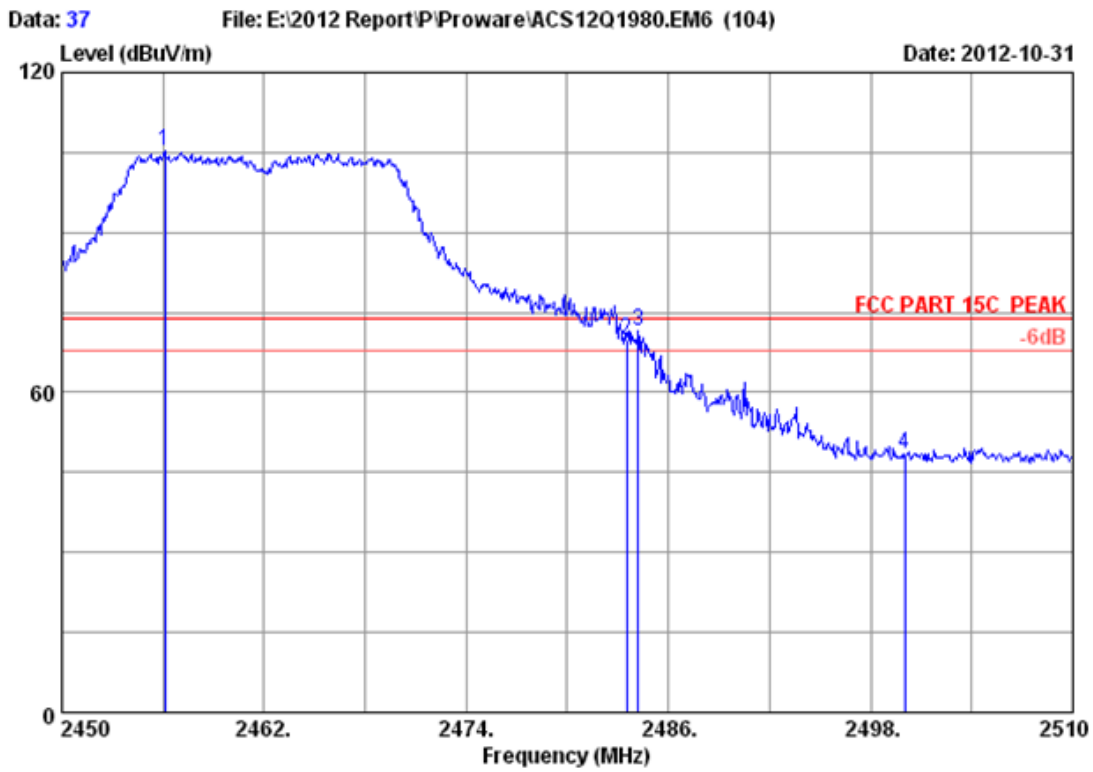
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Leo-Li
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 : PW-3G401M

	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

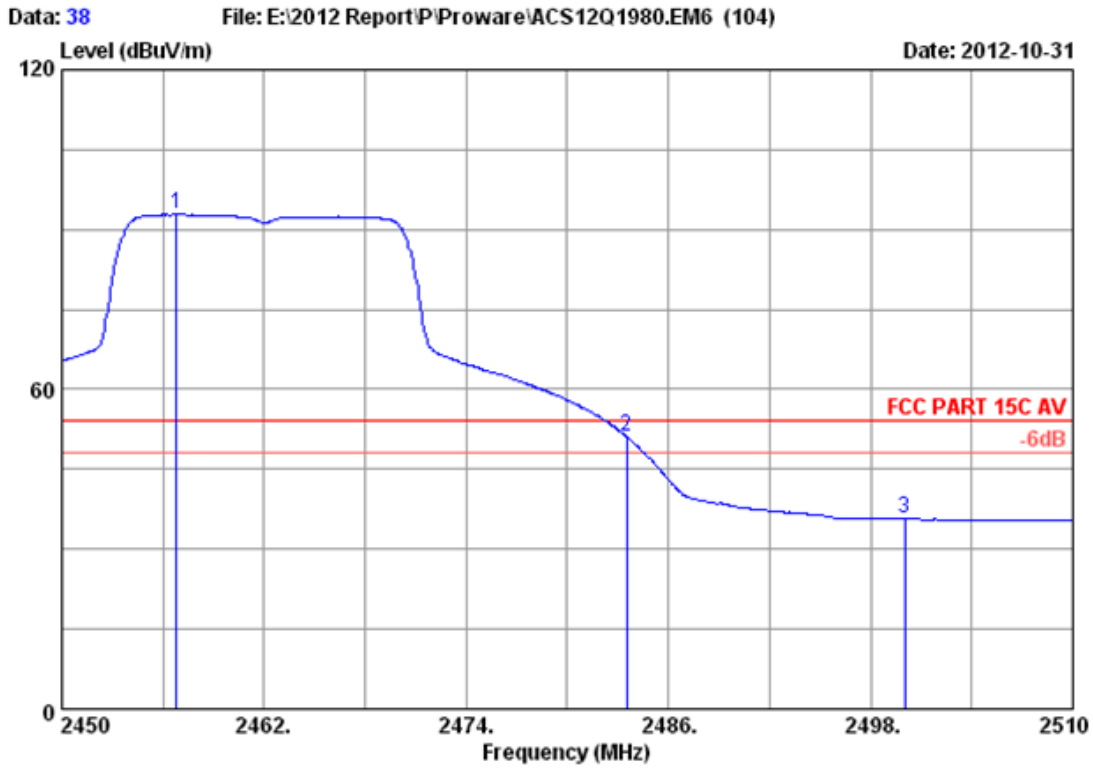
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

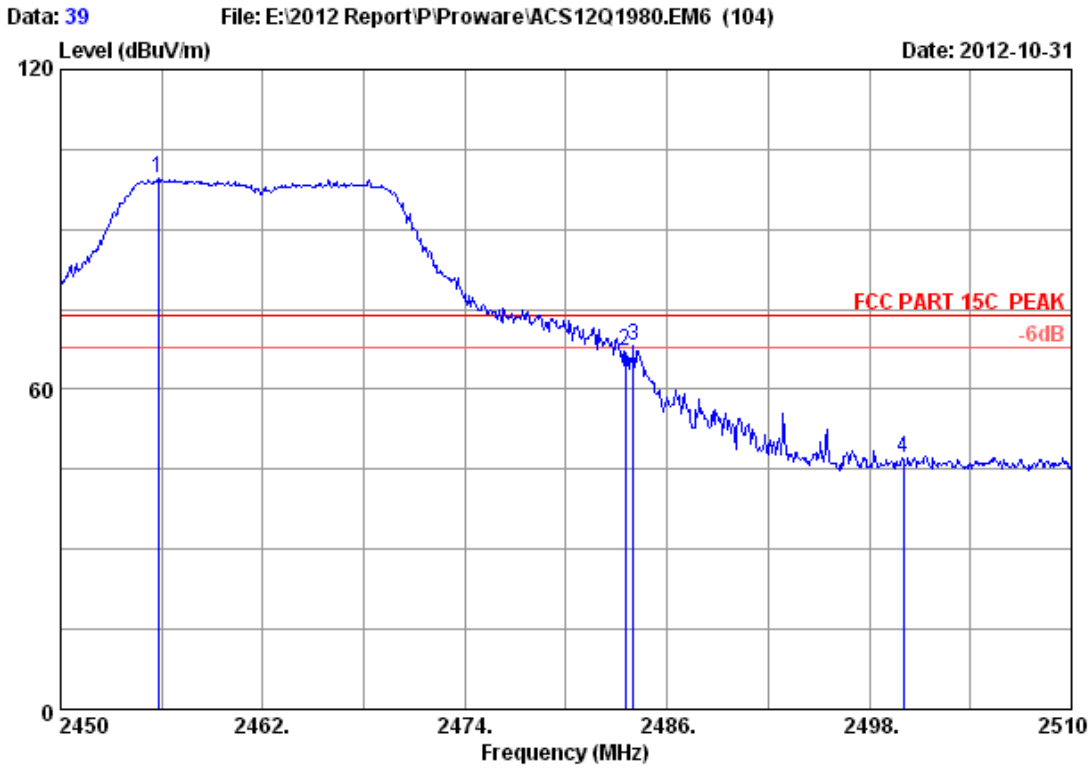
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

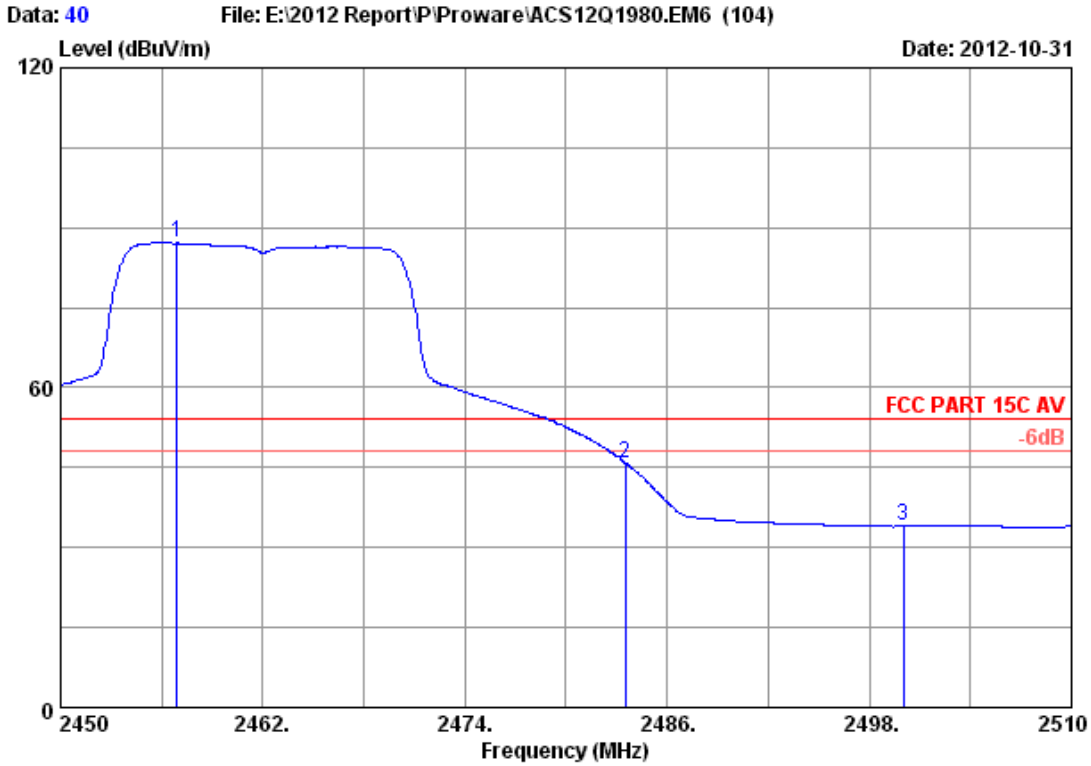
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

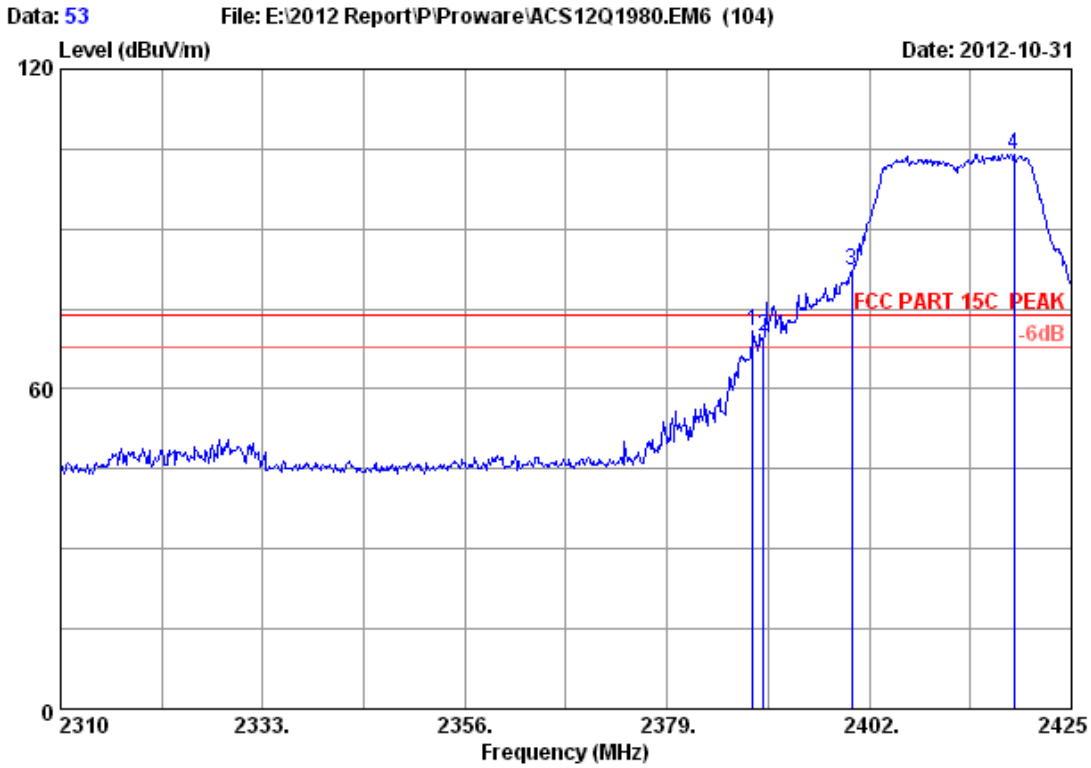
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

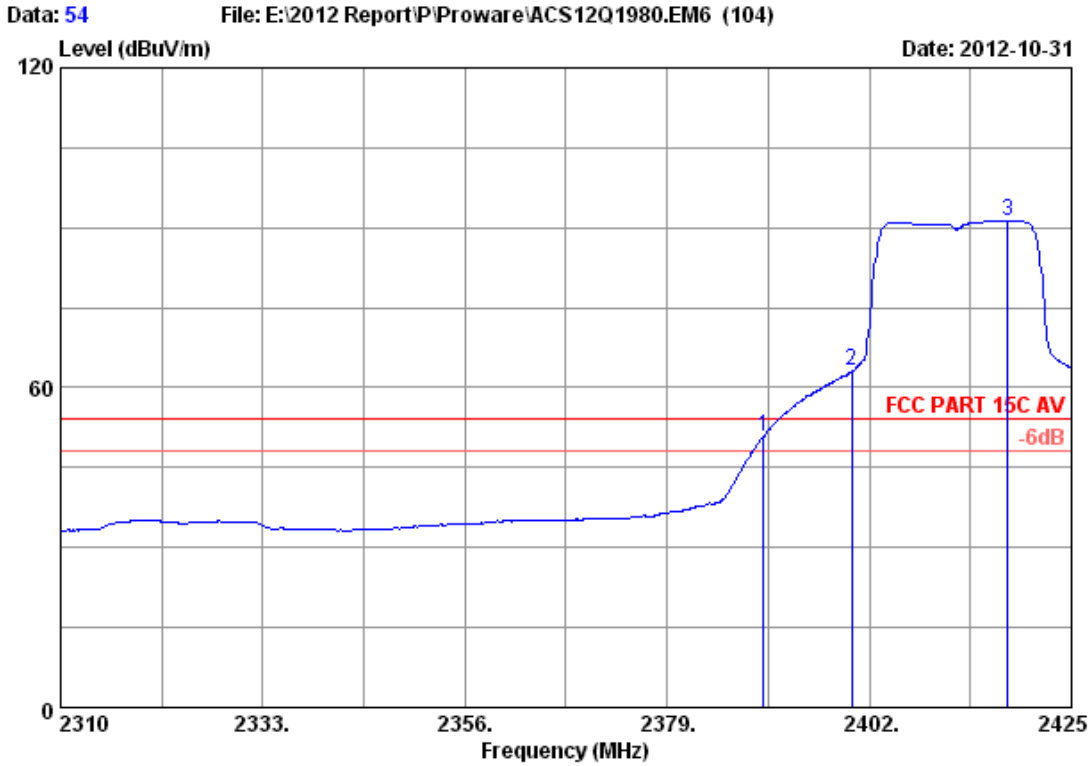
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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	2388.775	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

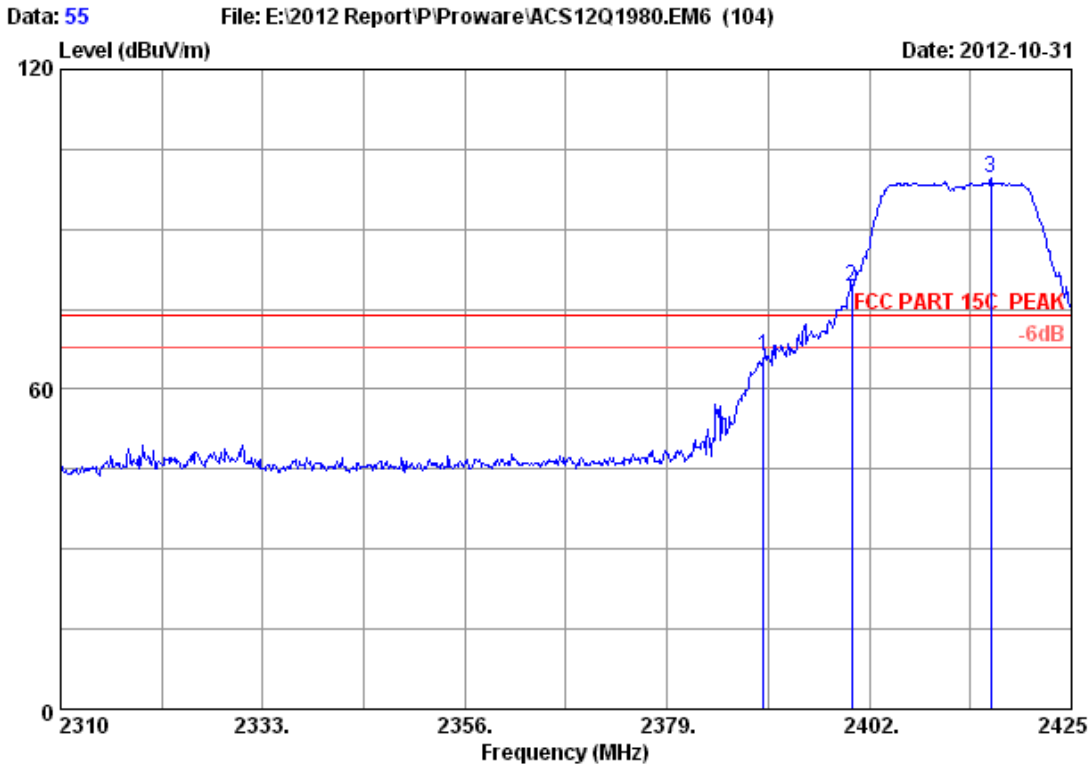
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

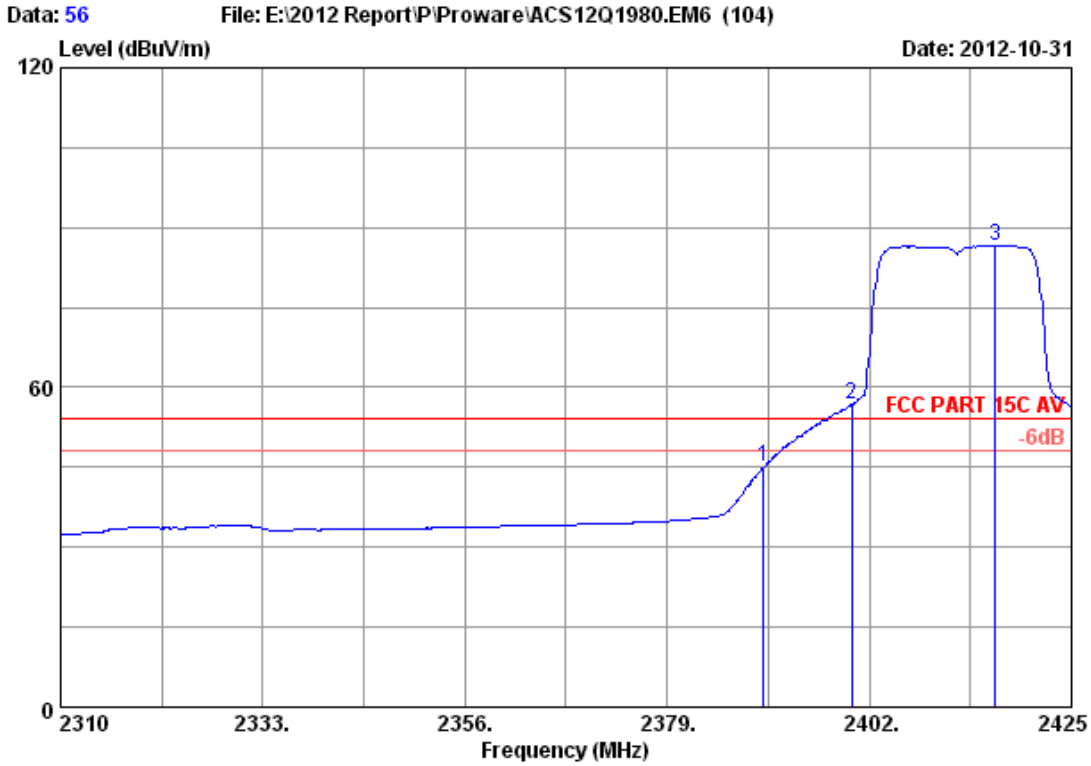
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 55
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
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 : PW-3G401M

	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

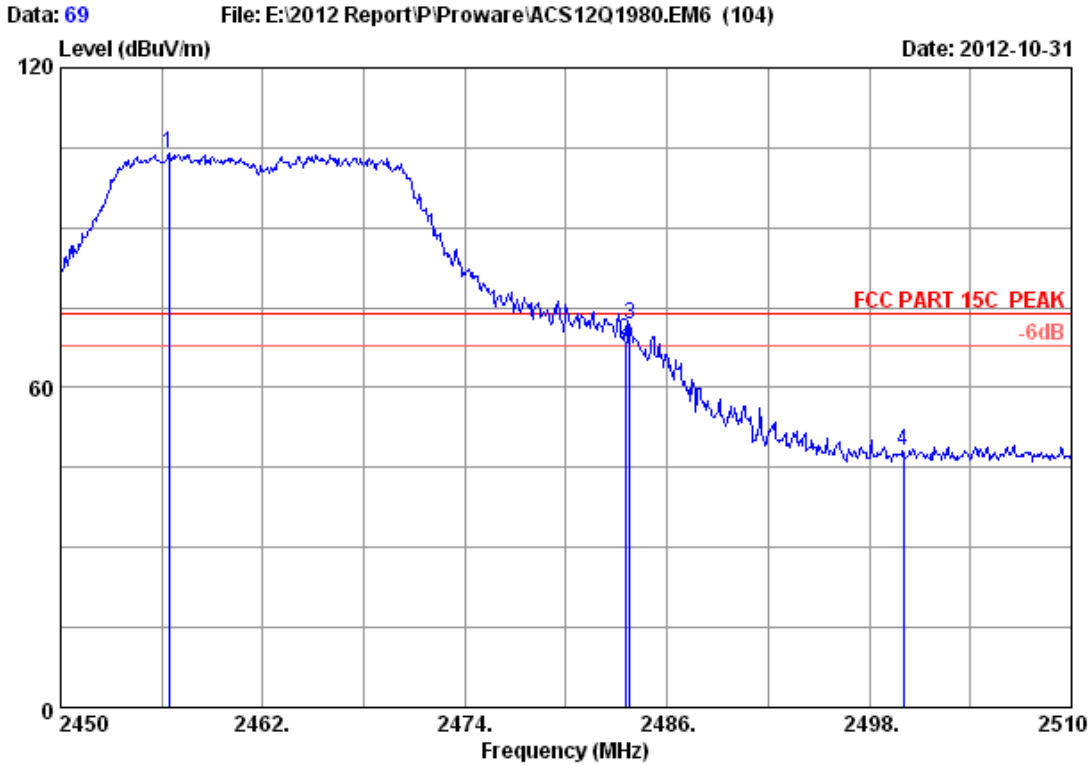
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

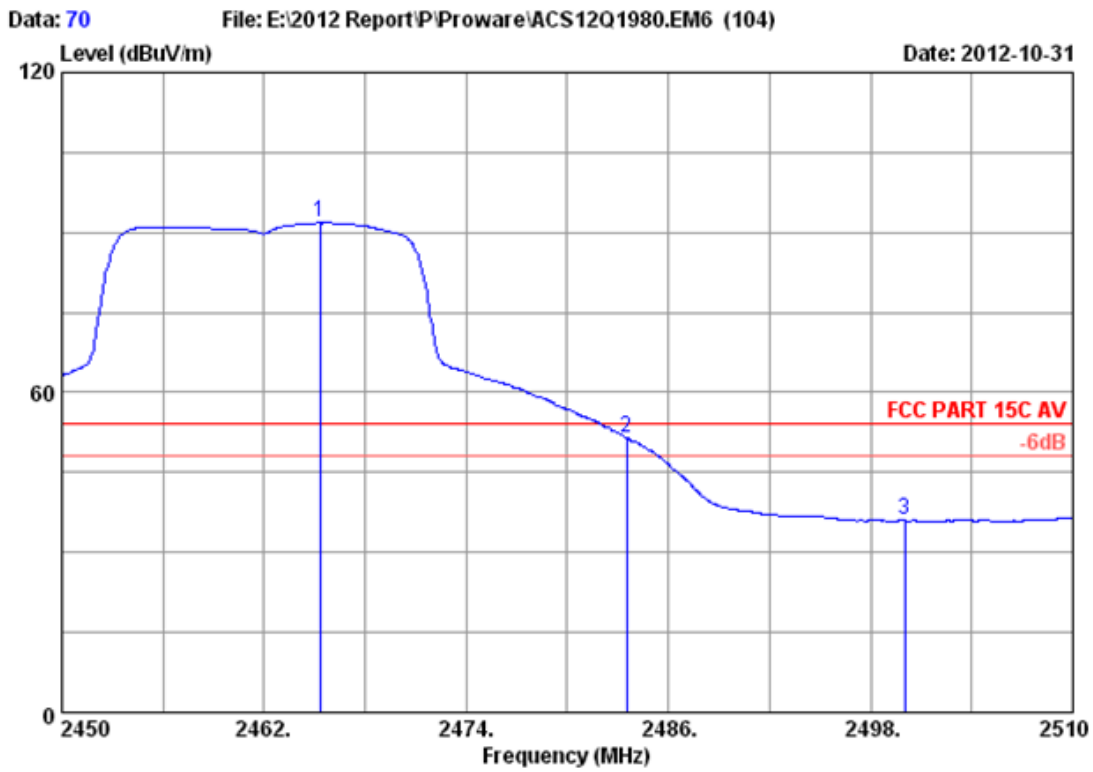
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 69
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
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 : PW-3G401M

	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

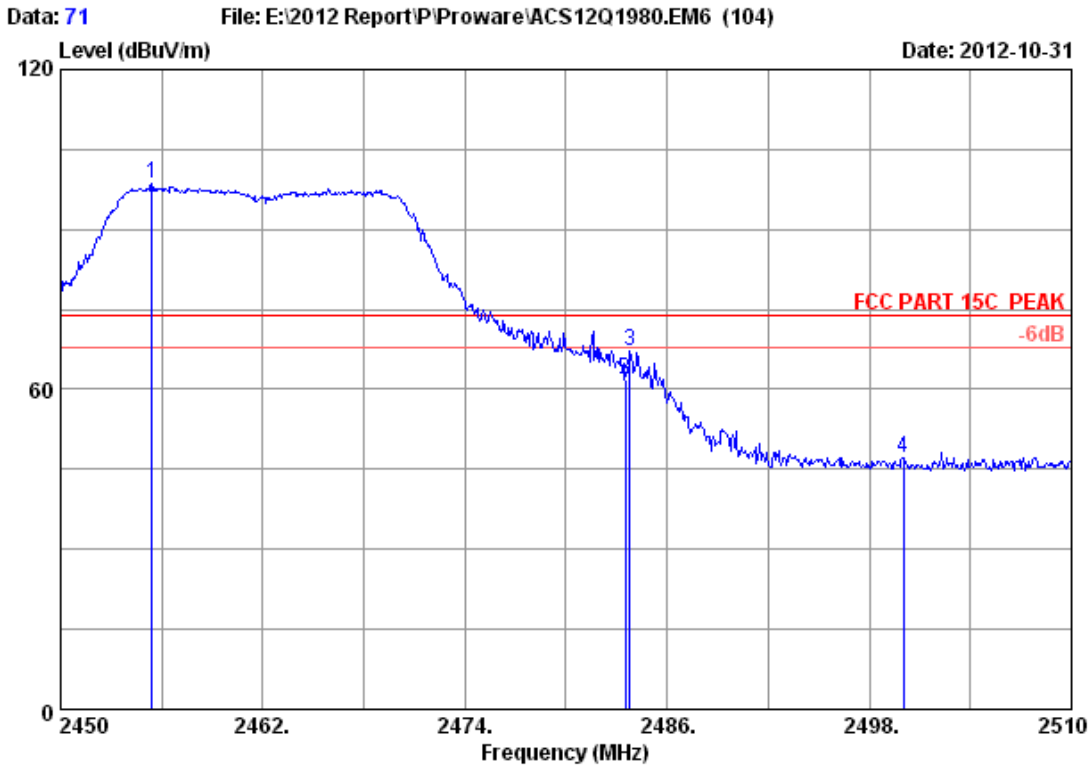
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

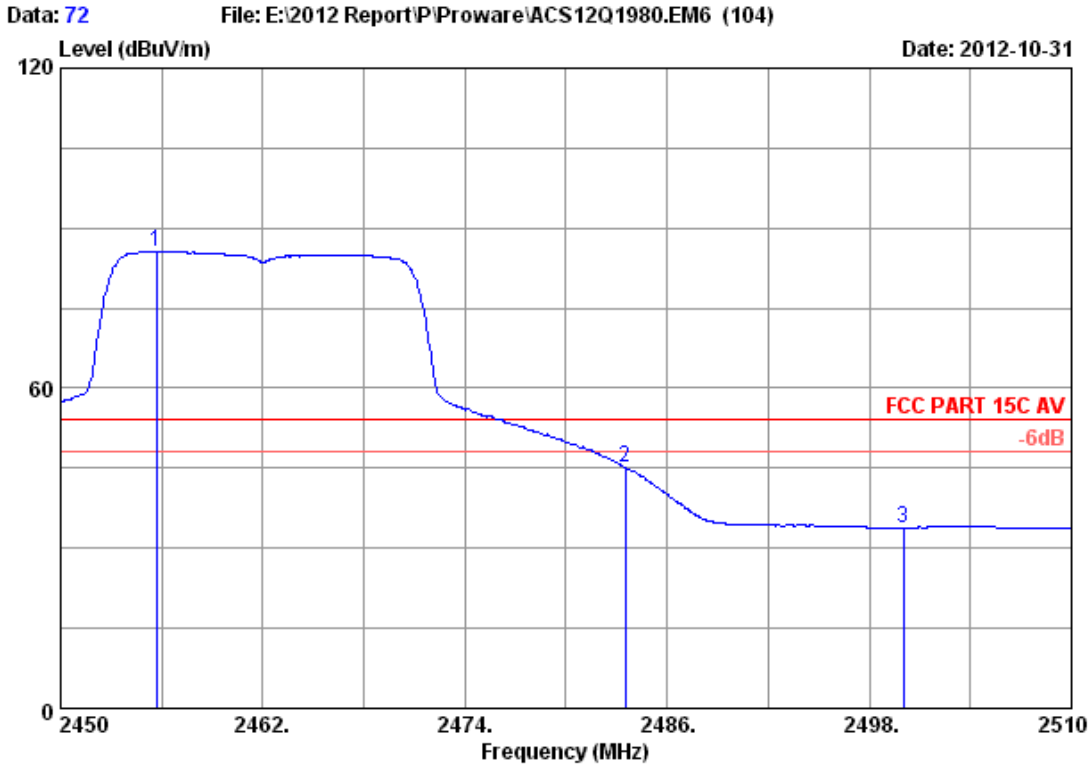
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

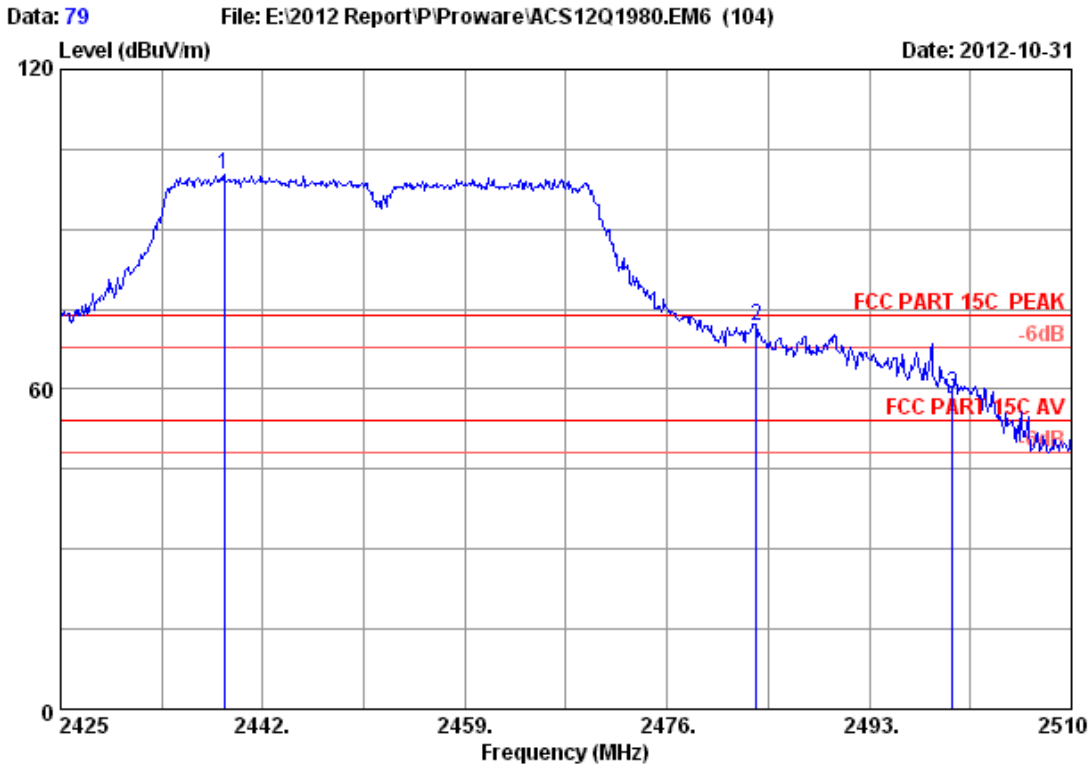
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

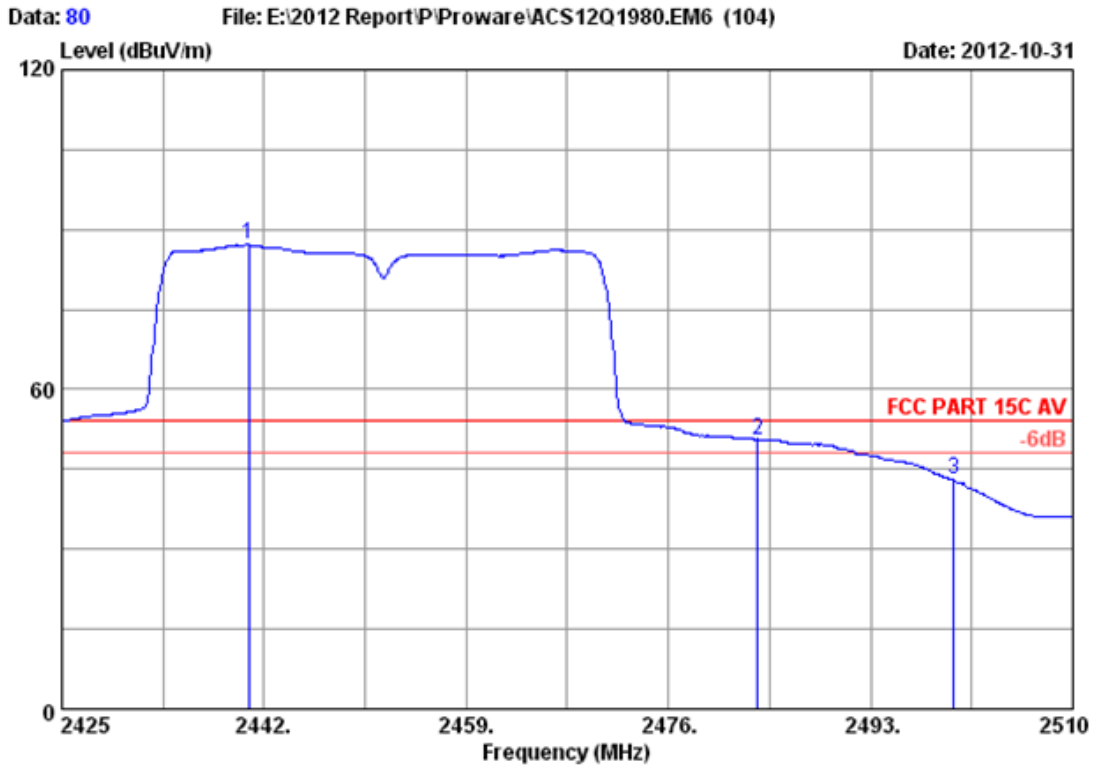
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

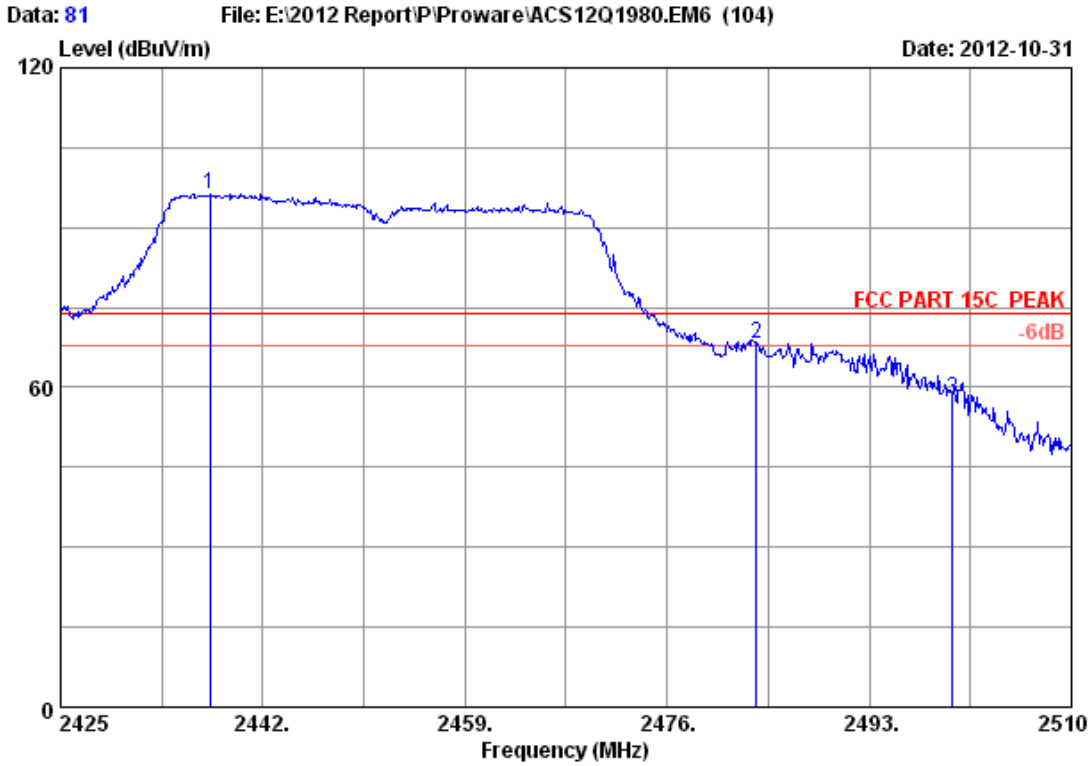
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 80
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : HORIZONTAL
Limit : FCC PART 15C AV
Env. / Ins. : 23*C/54% Engineer : Leo-Li
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 : PW-3G401M

	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

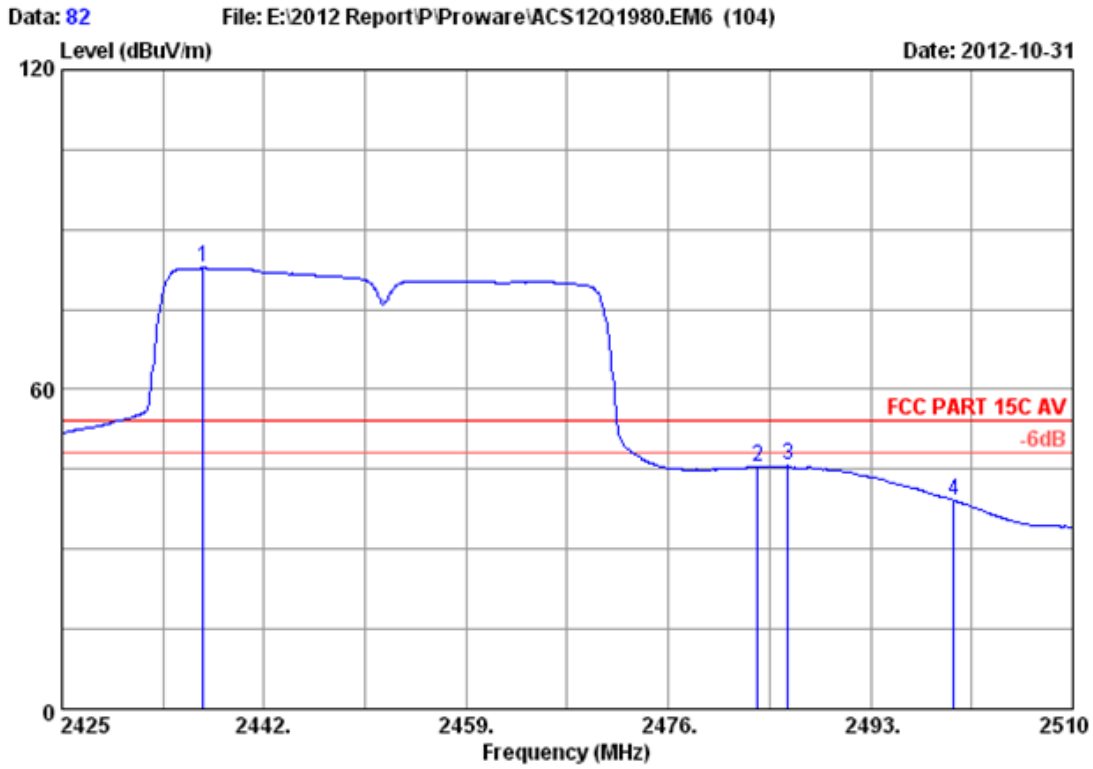
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

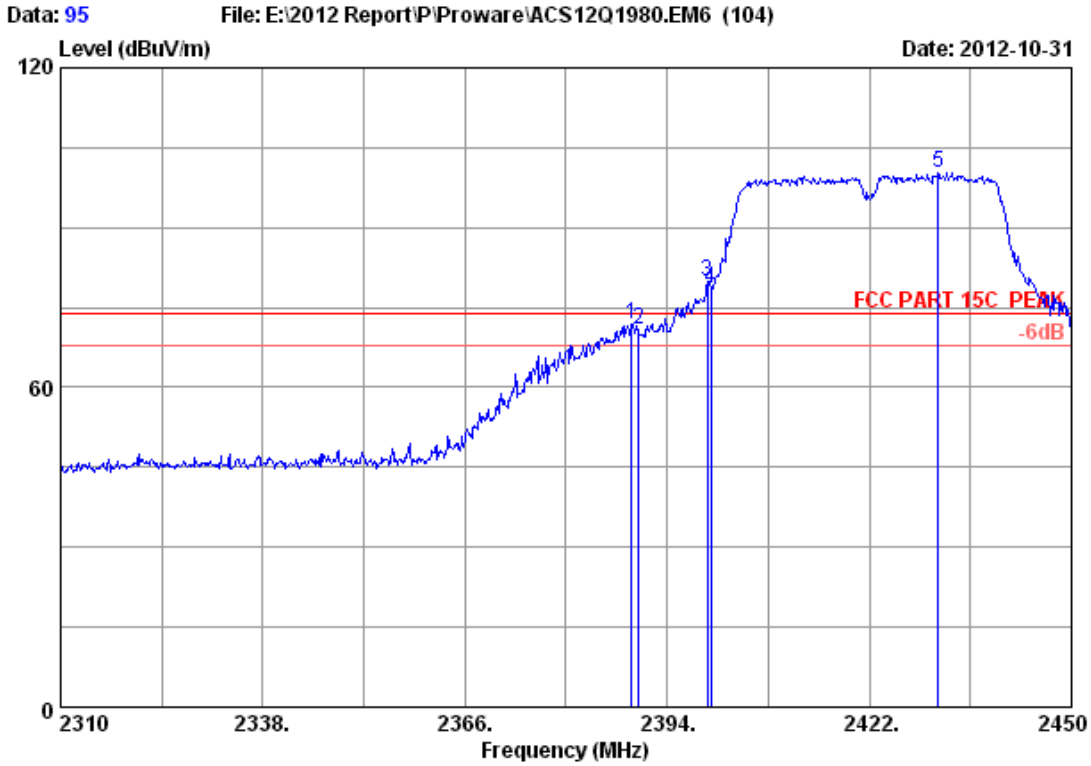
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

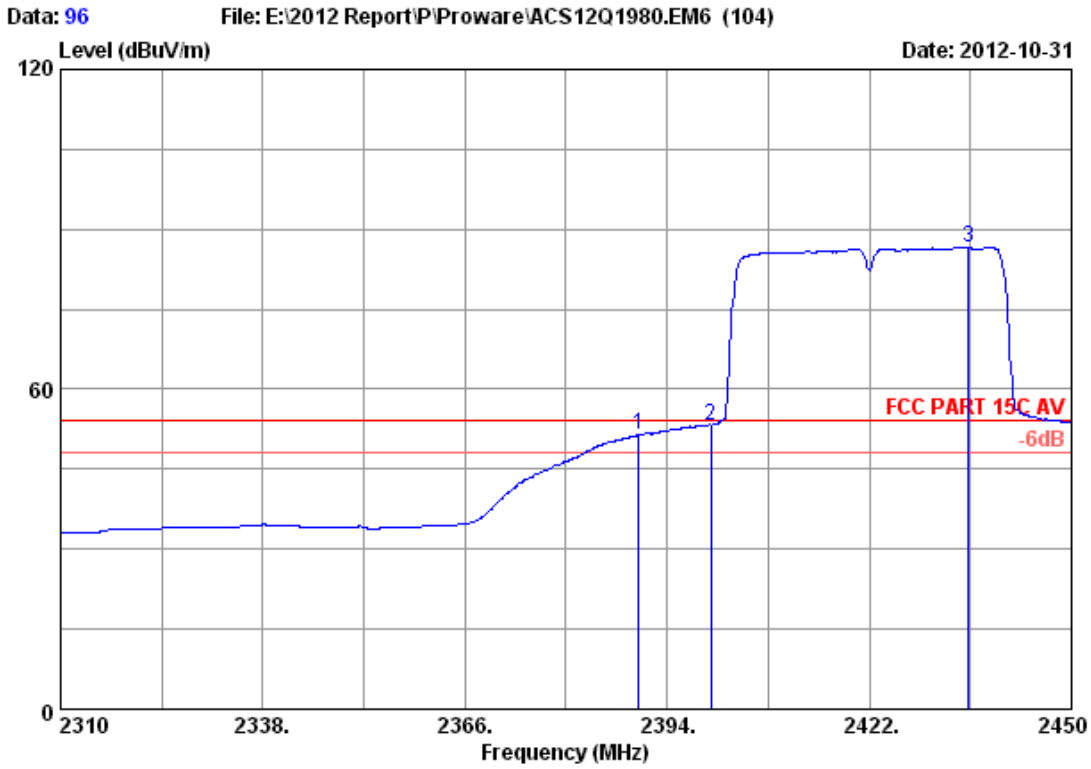
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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	2389.100	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

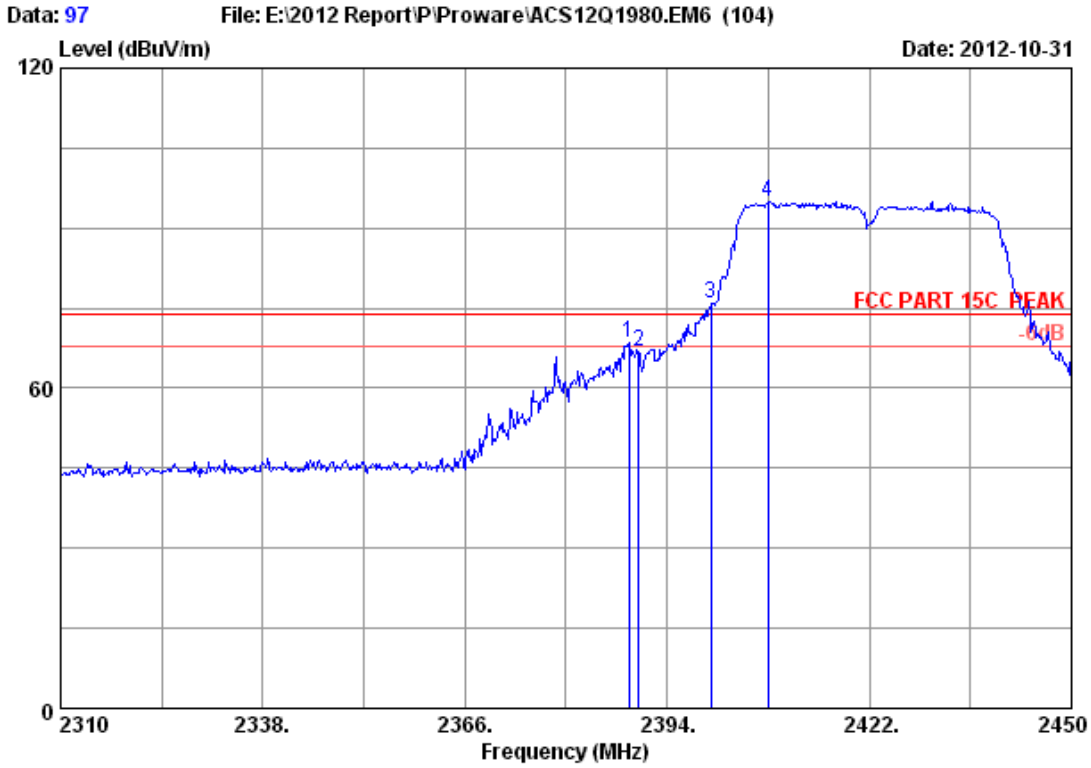
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



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 : Leo-Li
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 : PW-3G401M

	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

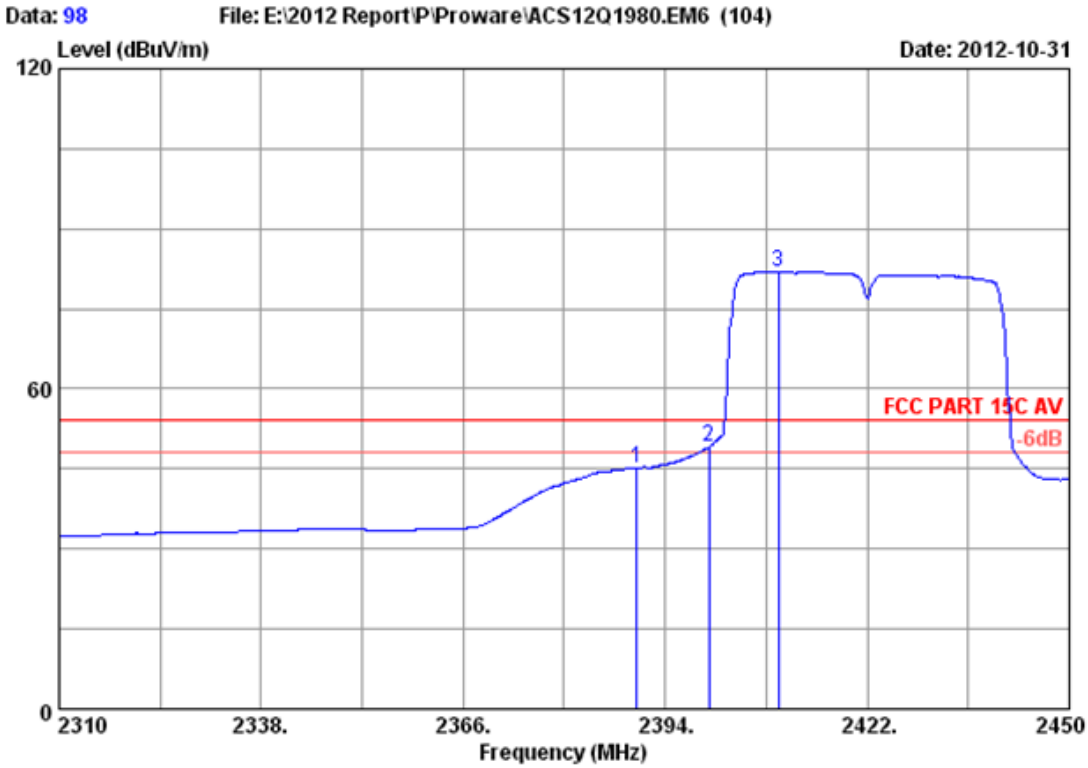
Remarks:
1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 97
Dis. / Ant. : 3m 2012 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 23*C/54% Engineer : Leo-Li
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 : PW-3G401M

	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 : Leo-Li
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 : PW-3G401M

	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, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 12	1Year
4.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 12	1 Year

7.2.Limit

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

7.3.Test Procedure

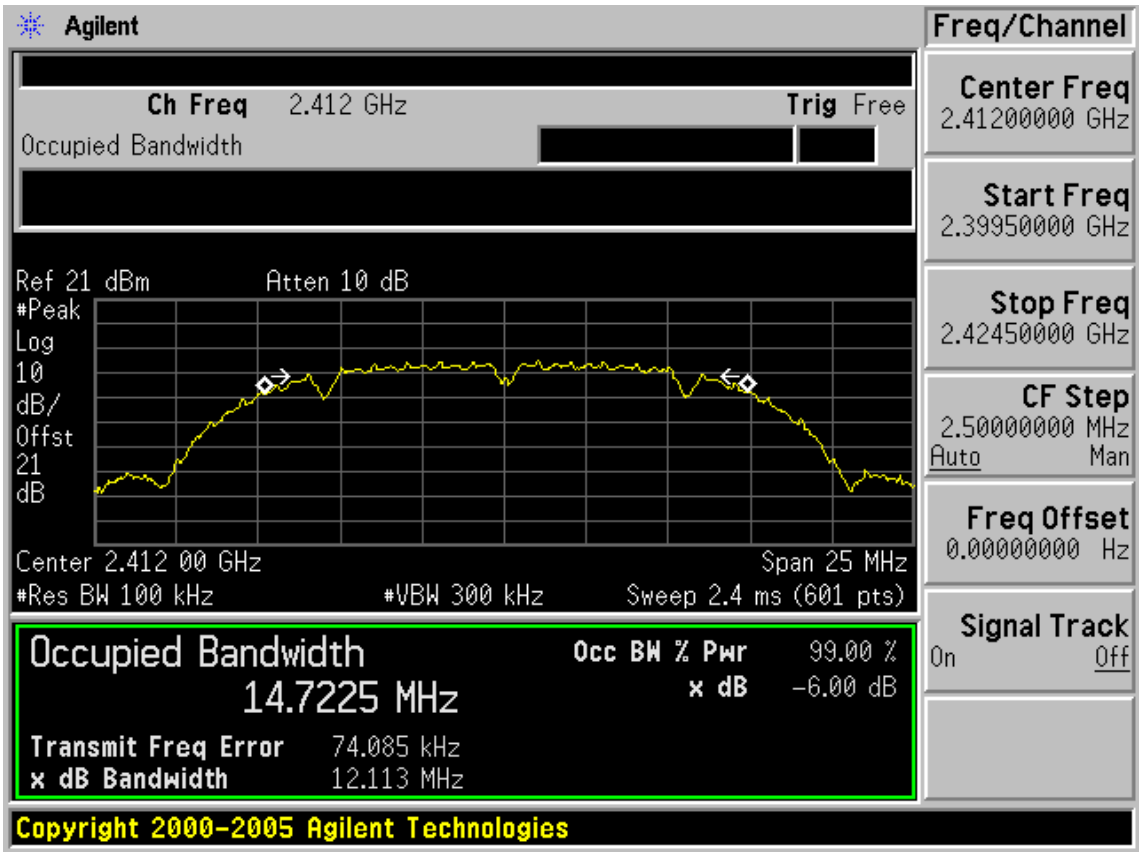
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4.Test Results

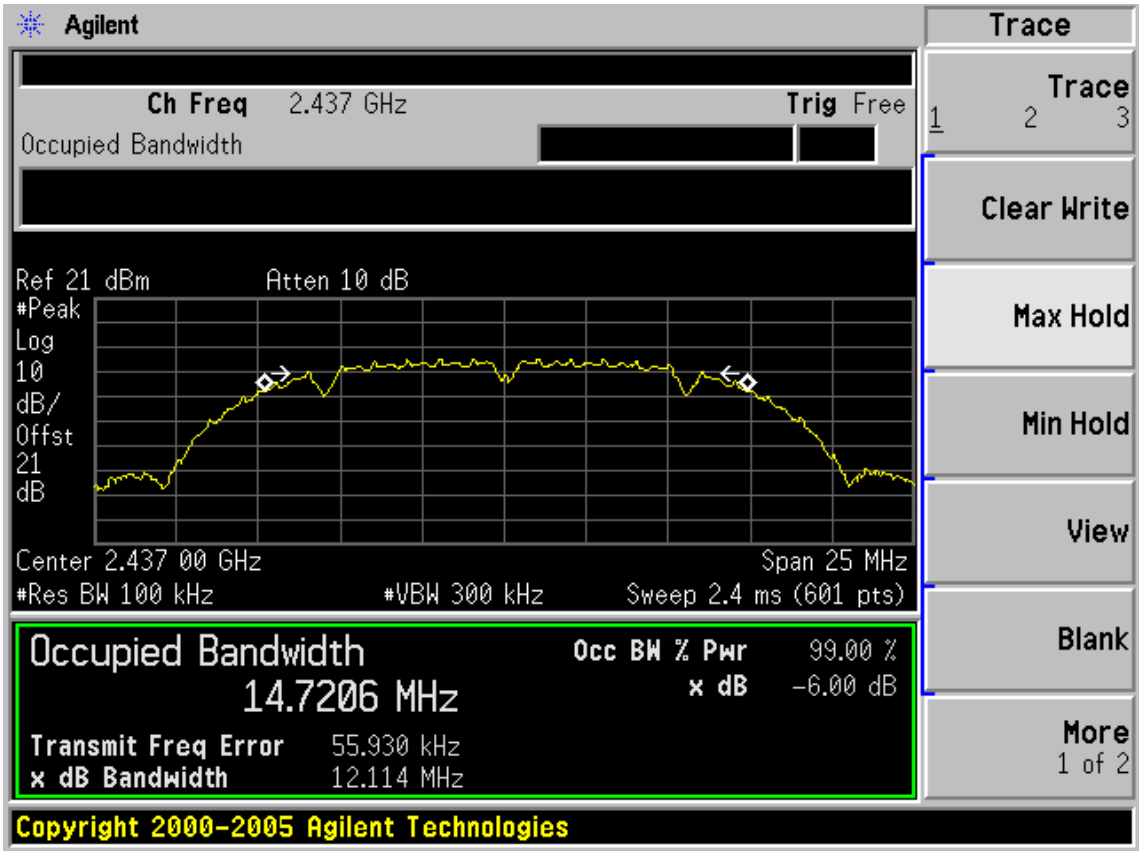
EUT: 3G Wireless N Nano Router		
M/N: PW-3G401M		
Test date: 2012-11-07	Pressure: 101.4±1.0 kpa	Humidity: 53.4±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 21.6±0.6℃

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			

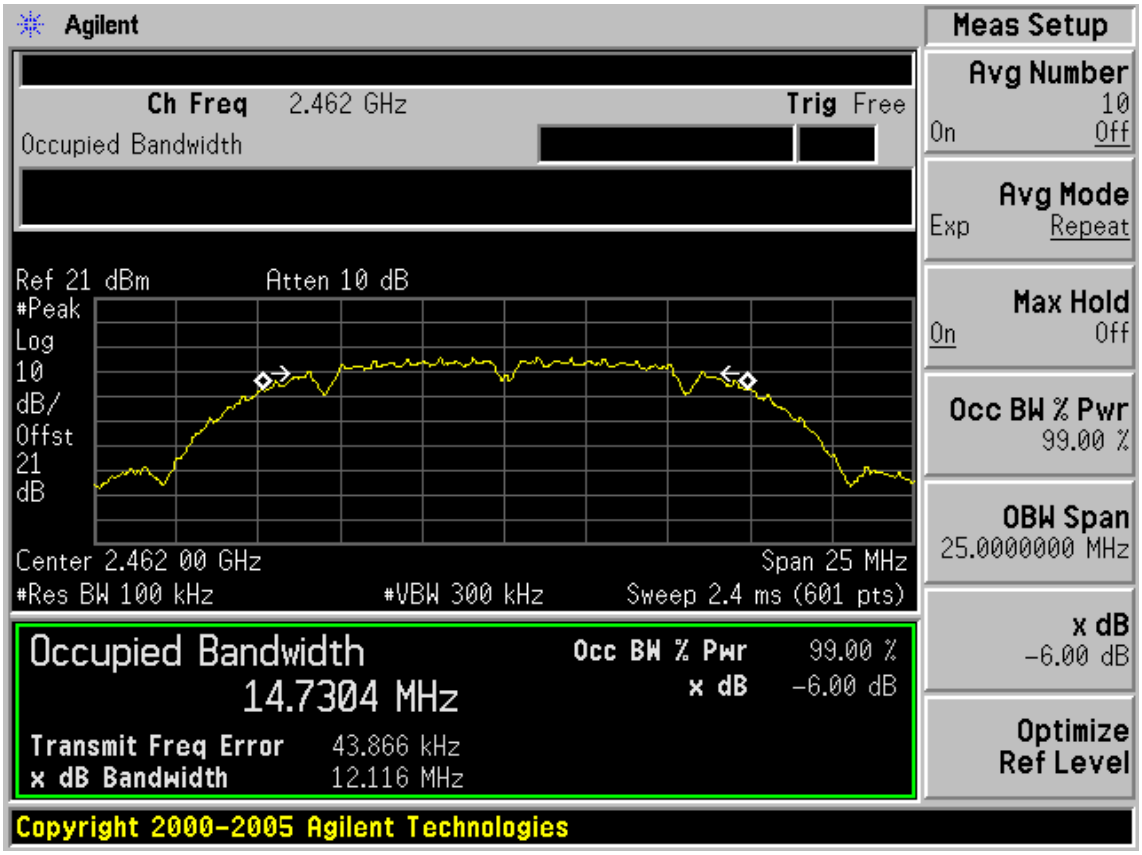
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz



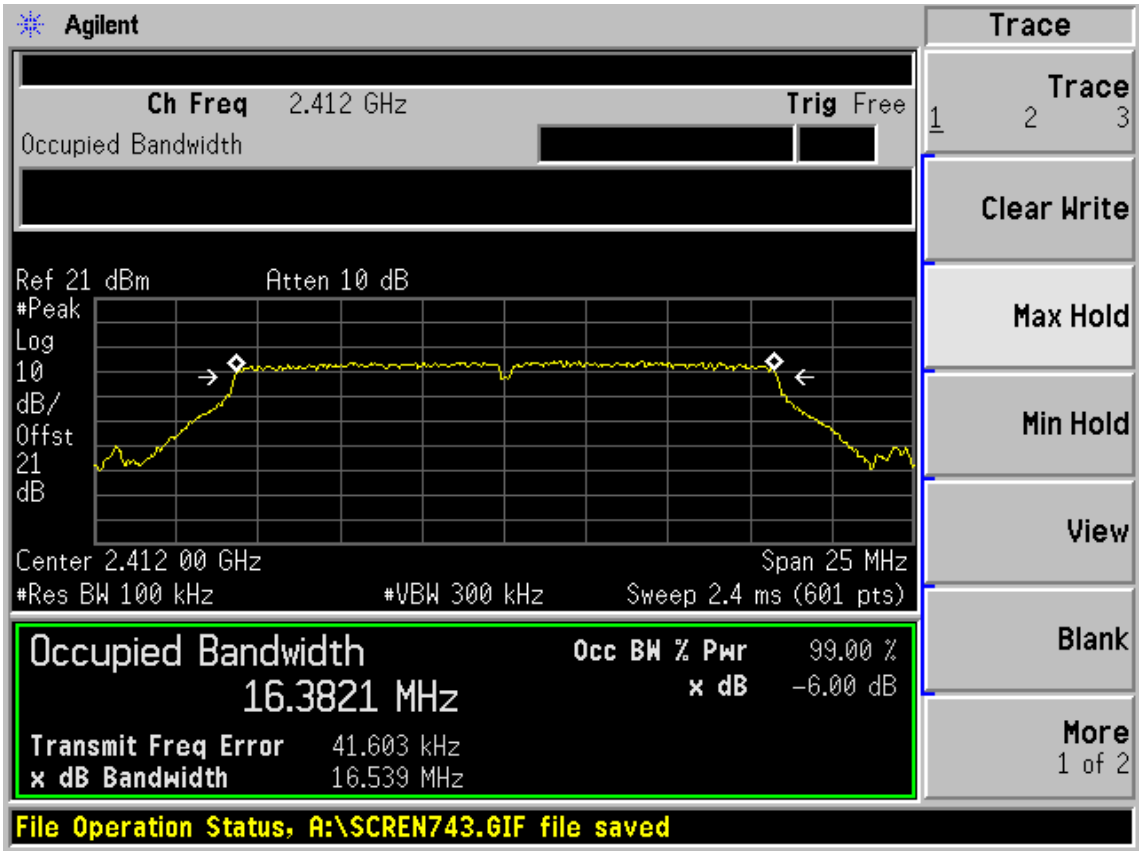
Test CH6: 2437MHz



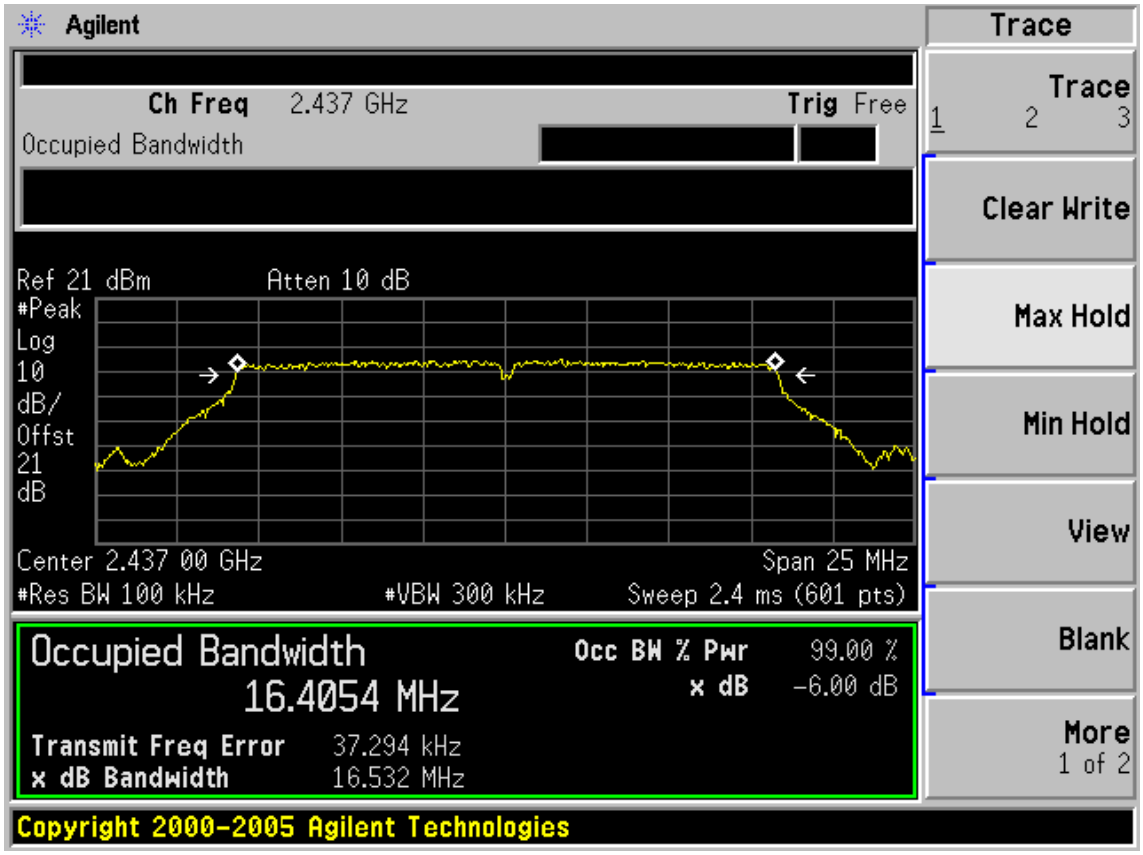
Test CH11: 2462MHz



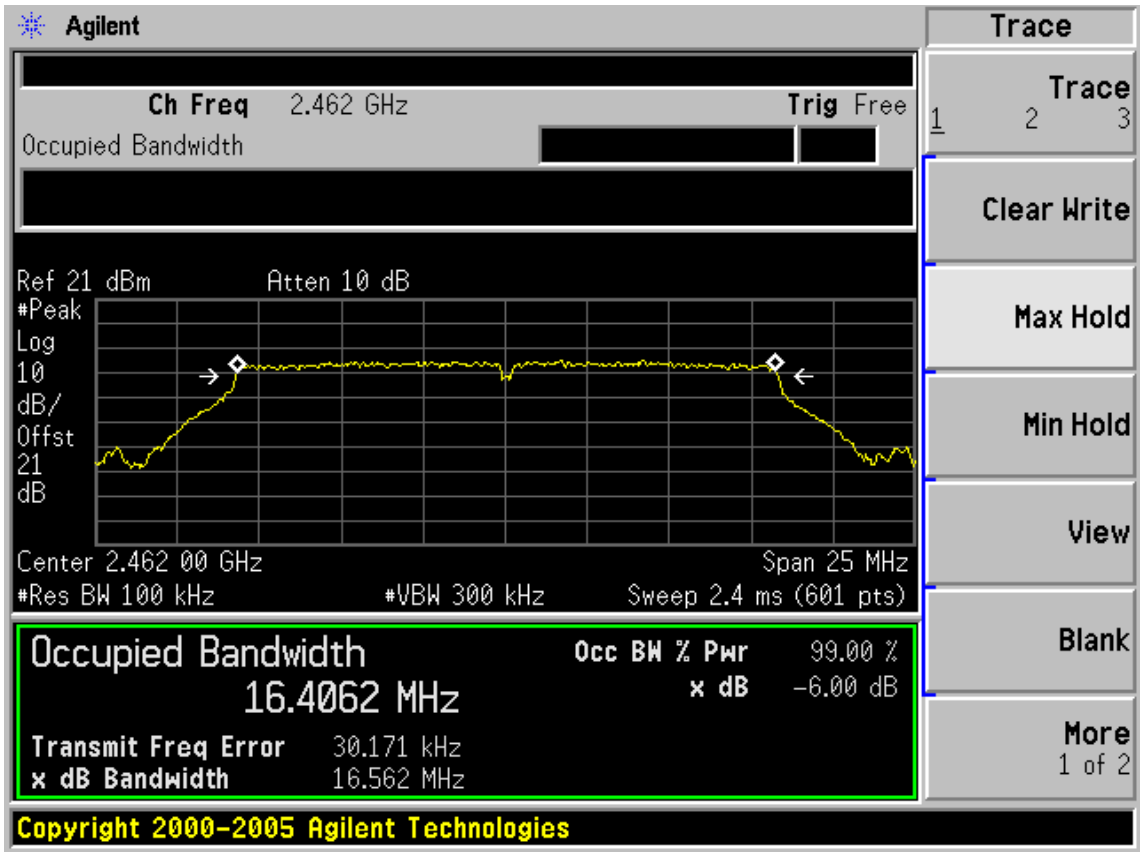
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz



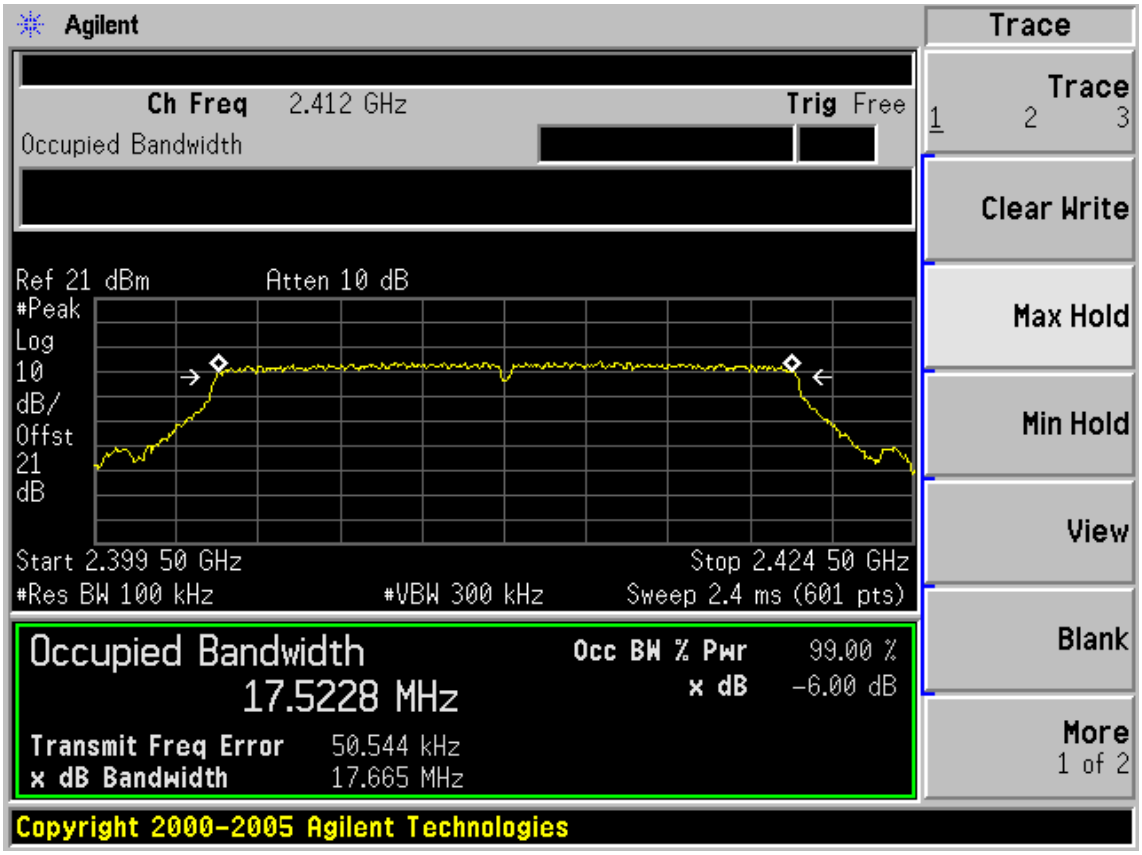
Test CH6: 2437MHz



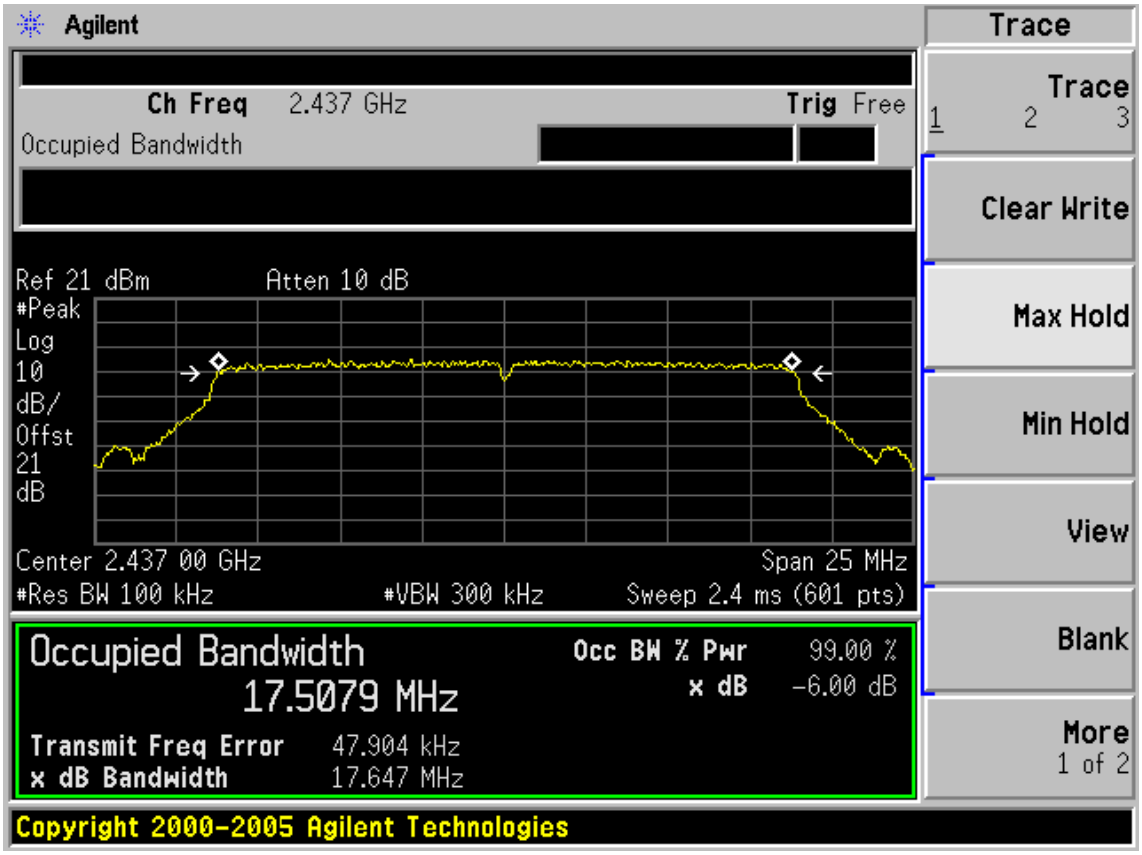
Test CH11: 2462MHz



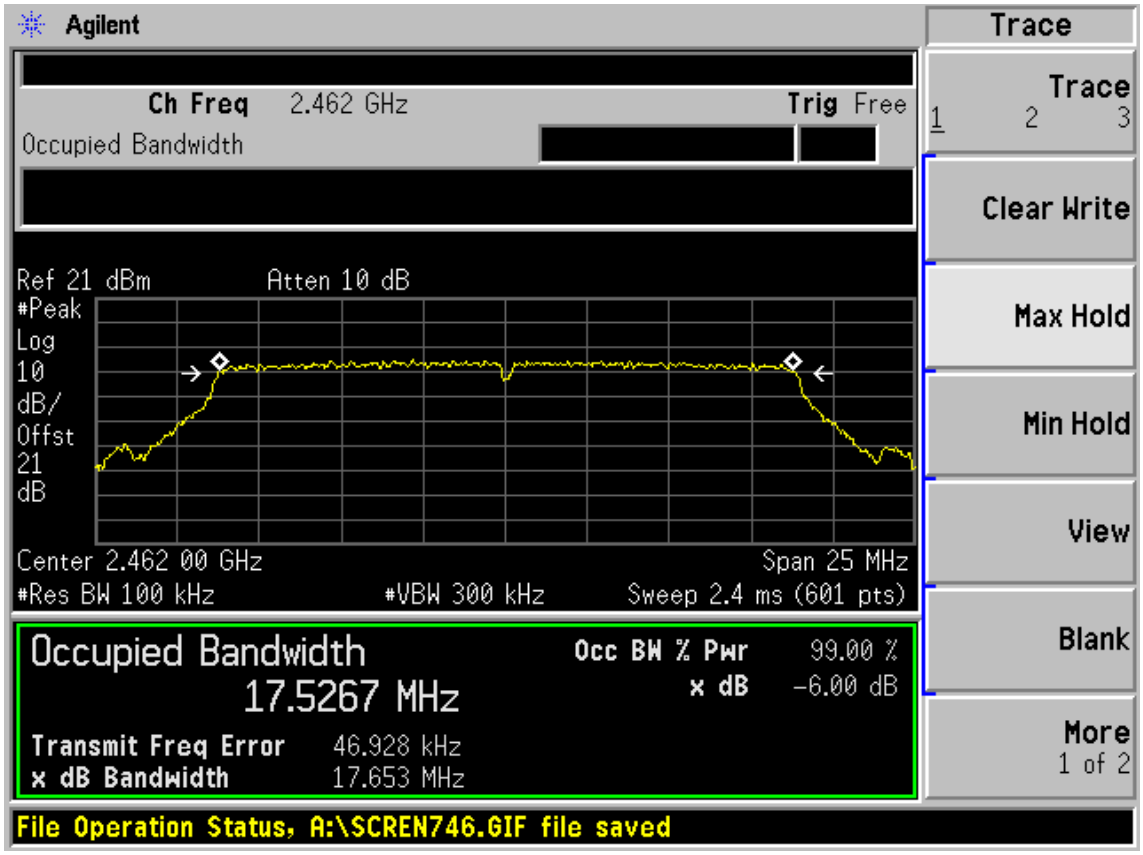
Test Mode: IEEE 802.11n HT20 TX
Test CH1: 2412MHz



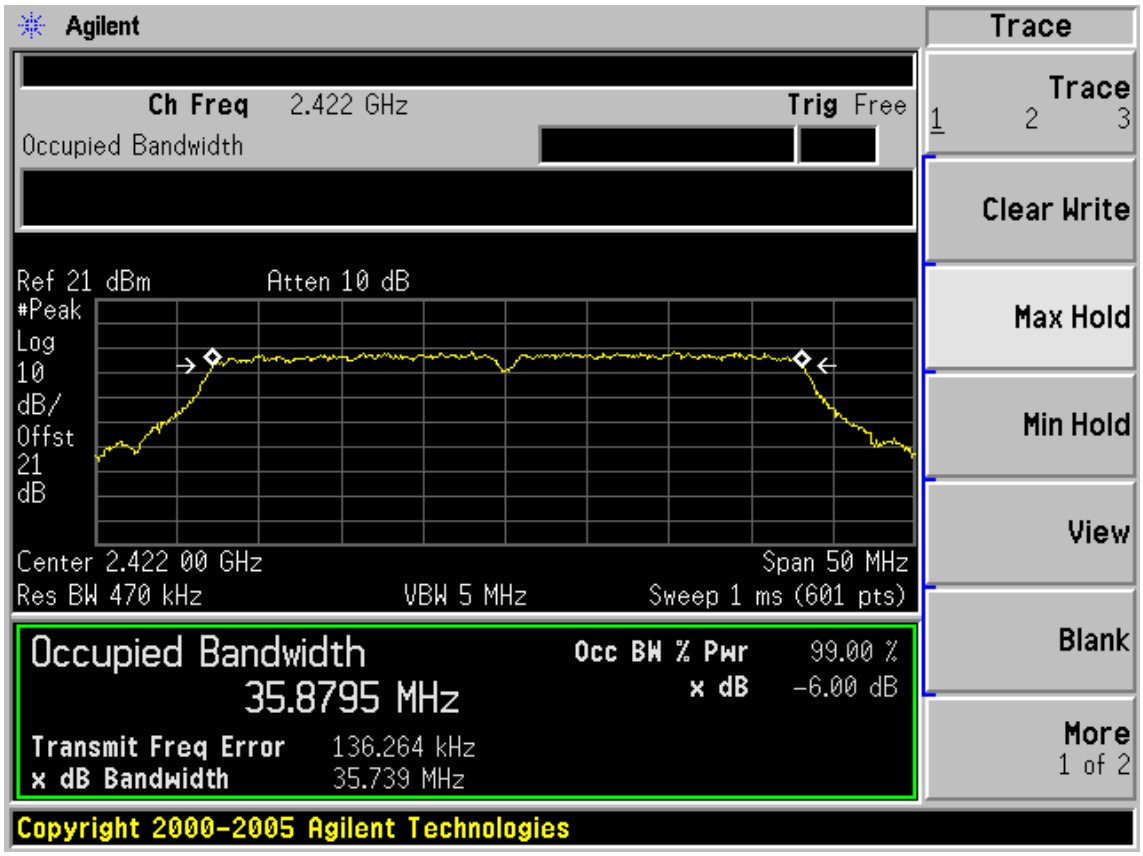
Test CH6: 2437MHz



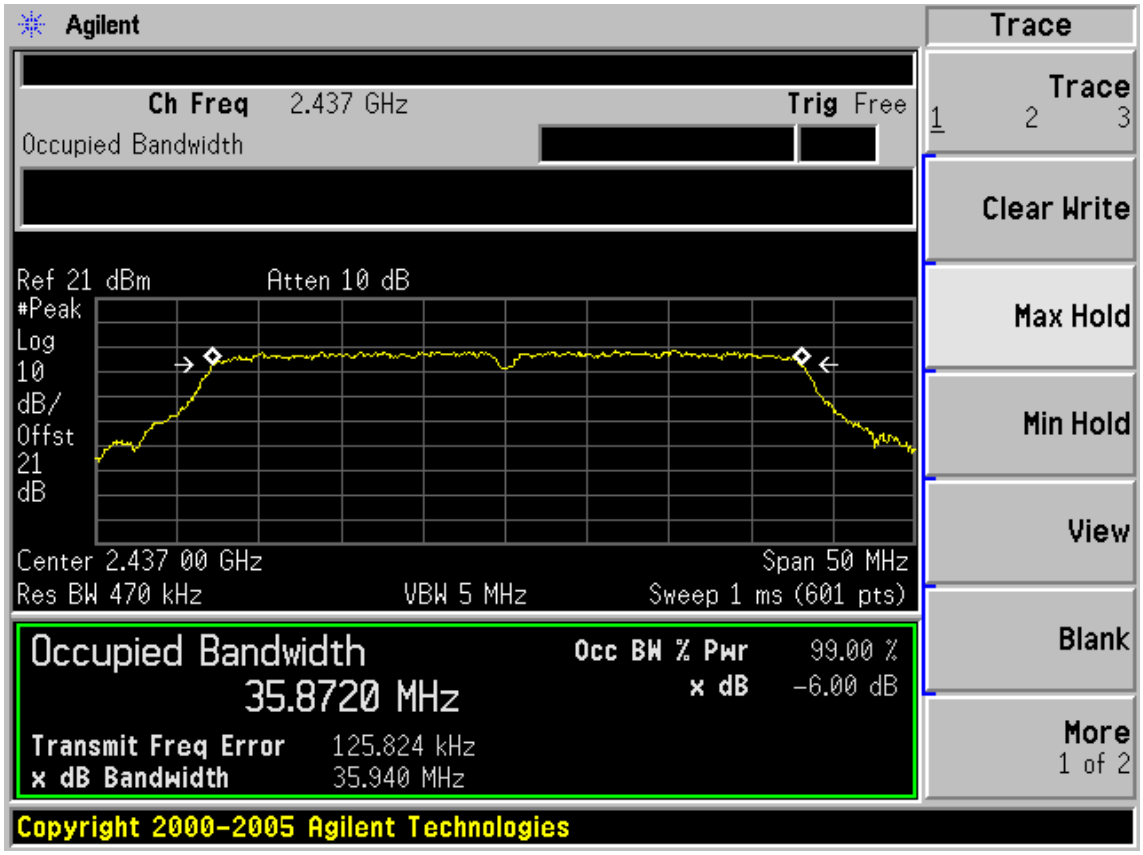
Test CH11: 2462MHz



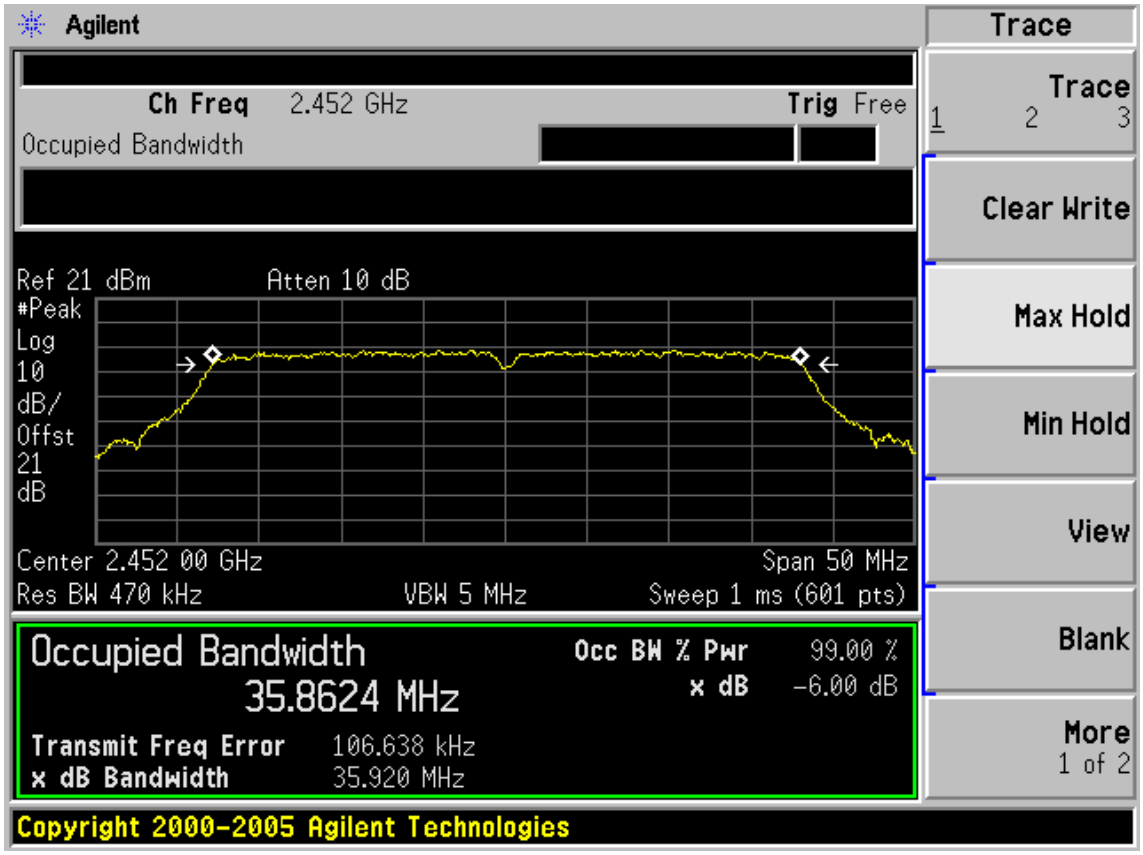
Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz



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, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 12	1Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 12	1Year

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.

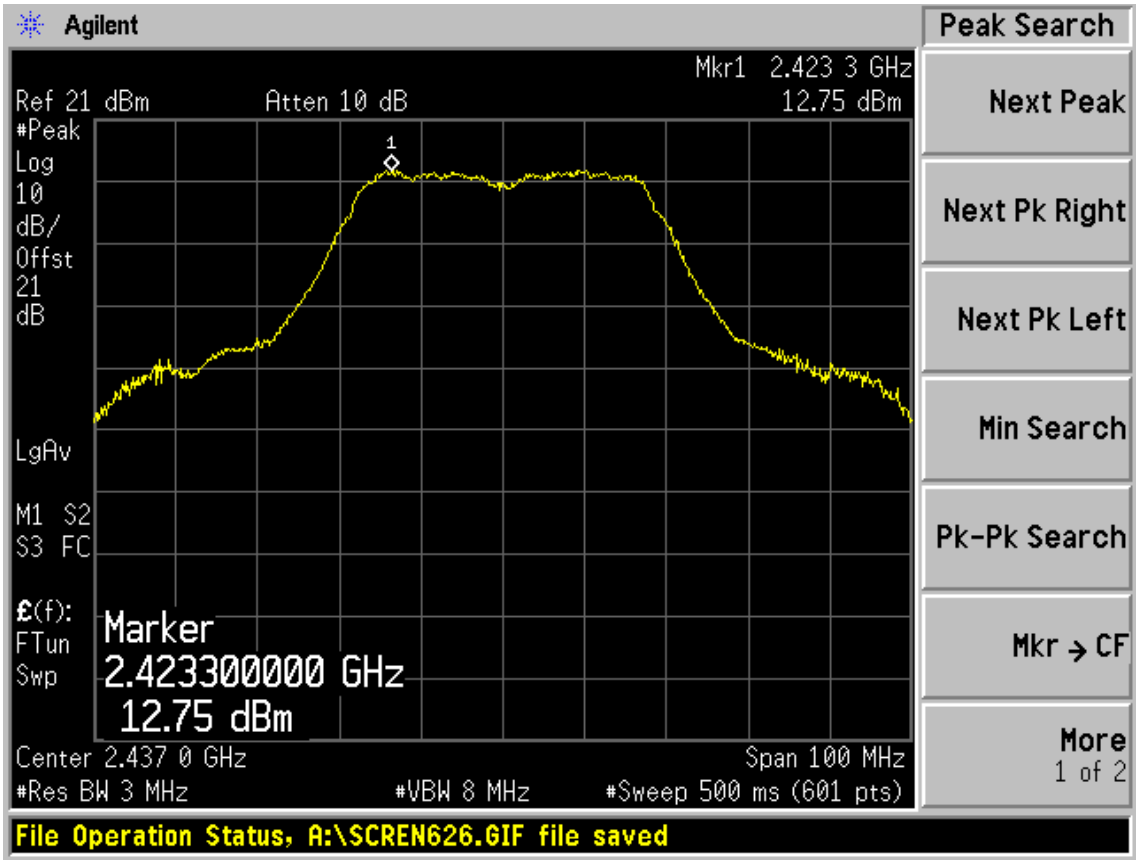
8.4.Test Results

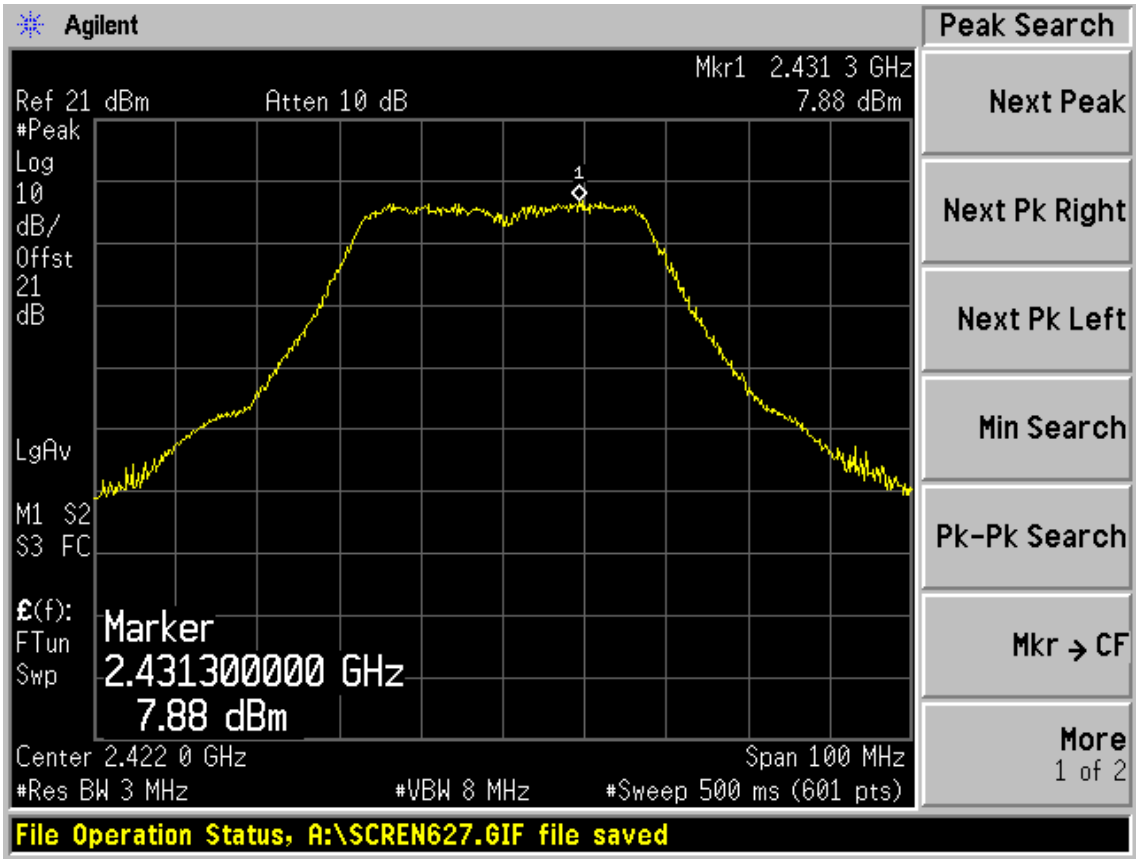
EUT: 3G Wireless N Nano Router			
M/N: PW-3G401M			
Test date: 2012-11-07	Pressure: 101.4±1.0 kpa	Humidity: 53.4±3.0%	
Tested by: Leo-Li	Test site: RF Site	Temperature21.6±0.6℃	
Cable loss: 1 dB		Attenuator loss: 20 dB	Antenna Gain: 0 dBi

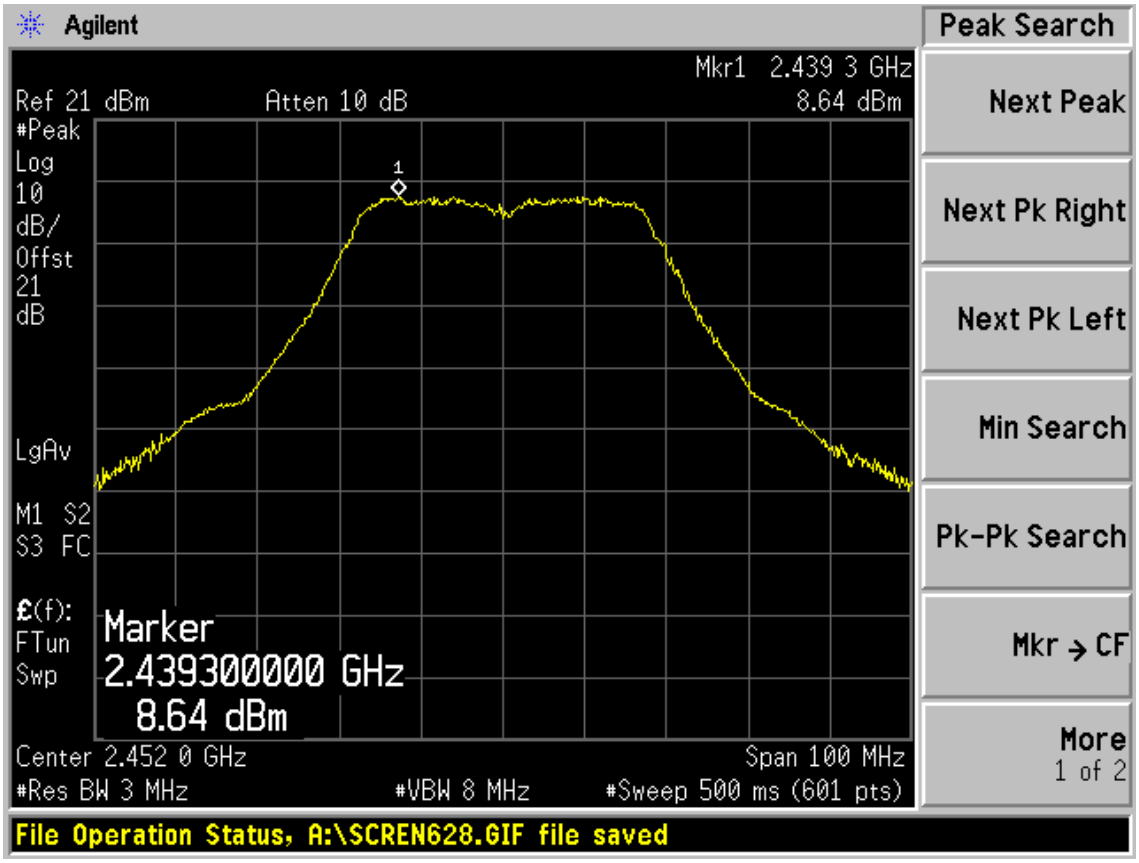
Test Mode	CH (MHz)	Peak output Power （dBm）	Limit (dBm)
11b	CH1	18.69	30
	CH6	19.58	30
	CH11	19.50	30
11g	CH1	21.70	30
	CH6	24.52	30
	CH11	22.14	30
11n HT20	CH1	20.60	30
	CH6	23.96	30
	CH11	24.19	30

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[(35.940MHz)/(3MHz)] = 12.20dB				
Conclusion: PASS				

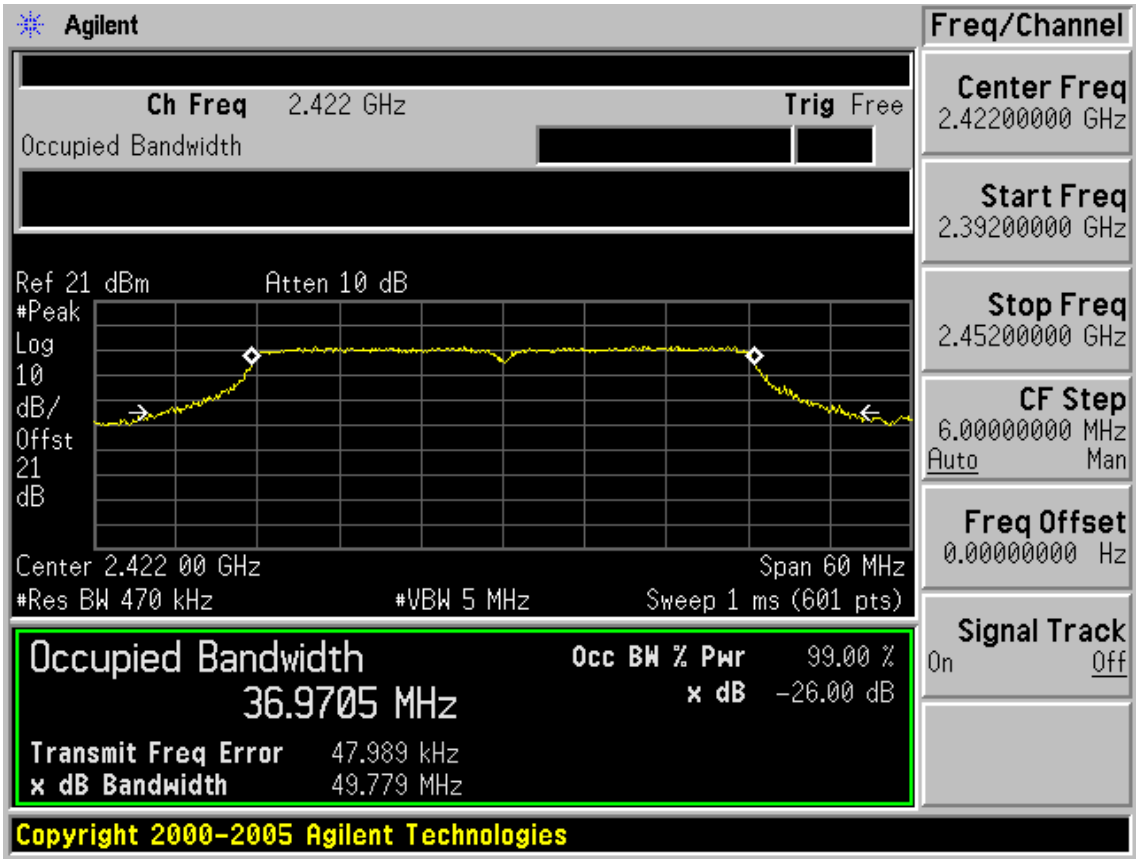
Test Mode: IEEE 802.11n HT40

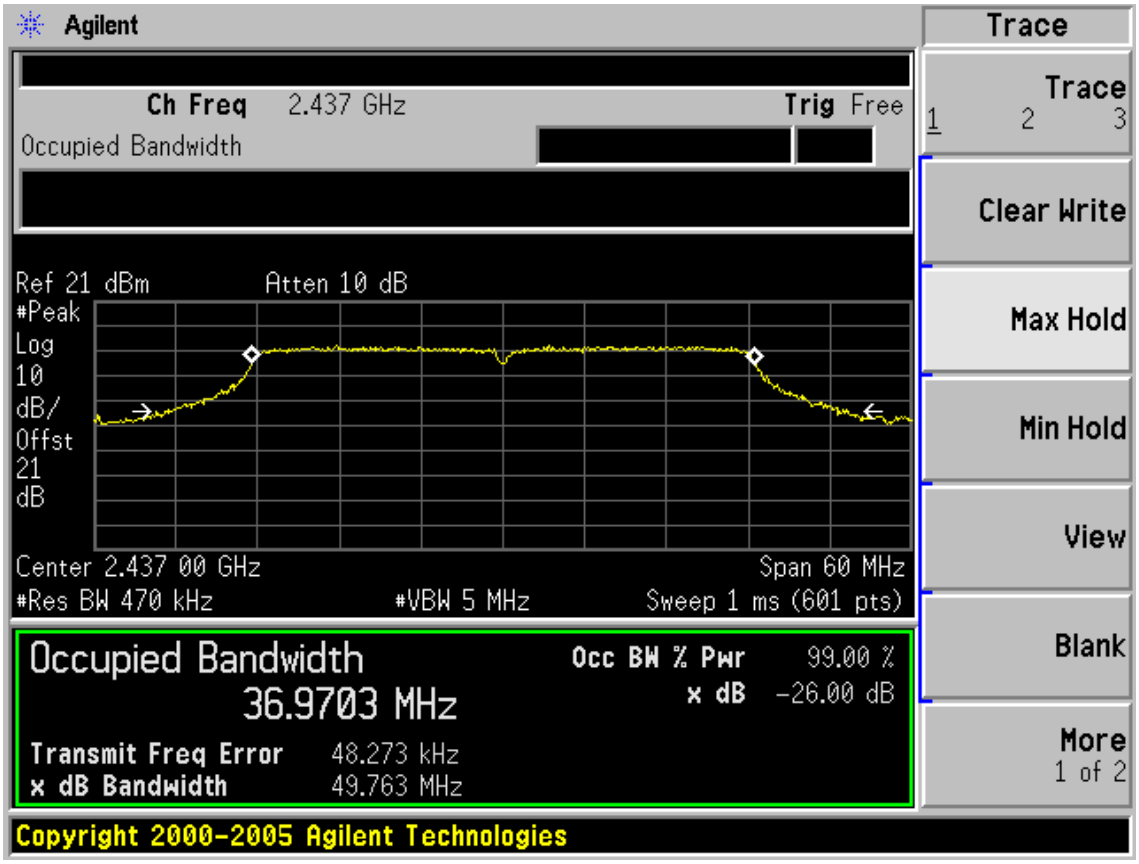


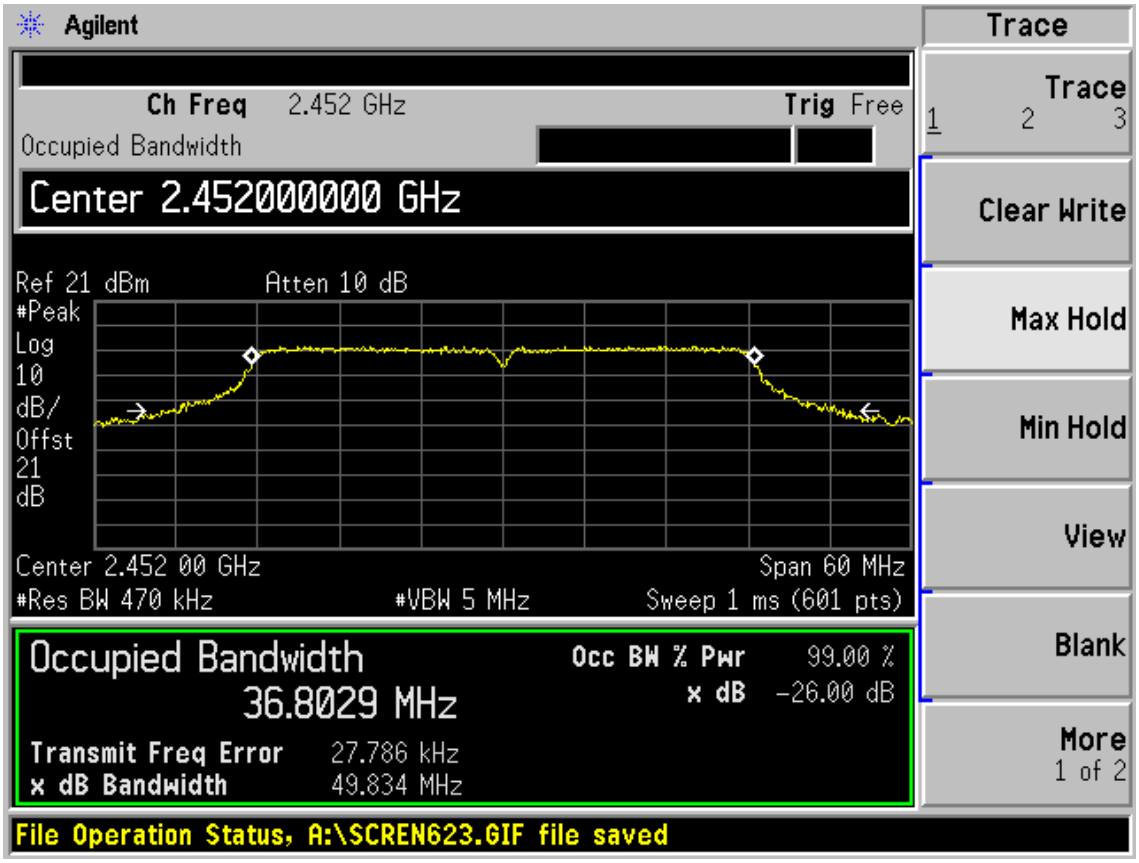




26dB Bandwidth




Agilent
Trace
Ch Freq 2.437 GHz
Trig Free
Occupied Bandwidth
Trace
1 2 3
Clear Write
Ref 21 dBm
Atten 10 dB
Max Hold
#Peak
Log
10
dB/
Offst
21
dB
Min Hold
View
Center 2.437 00 GHz
Span 60 MHz
#Res BW 470 kHz
#VBW 5 MHz
Sweep 1 ms (601 pts)
Blank
Occupied Bandwidth
36.9703 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 48.273 kHz
x dB Bandwidth 49.763 MHz
More
1 of 2
Copyright 2000-2005 Agilent Technologies


Agilent
Trace
Ch Freq 2.452 GHz
Trig Free
Occupied Bandwidth
Trace
1 2 3
Center 2.452000000 GHz
Clear Write
Ref 21 dBm
Atten 10 dB
Max Hold
#Peak
Log
10
dB/
Offst
21
dB
Min Hold
View
Center 2.452 00 GHz
Span 60 MHz
#Res BW 470 kHz
#VBW 5 MHz
Sweep 1 ms (601 pts)
Blank
Occupied Bandwidth
36.8029 MHz
Occ BW % Pwr 99.00 %
x dB -26.00 dB
Transmit Freq Error 27.786 kHz
x dB Bandwidth 49.834 MHz
More
1 of 2
File Operation Status, A:\SCREN623.GIF file saved

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, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.31, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	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=100KHz,VBW=300KHz,Span large enough capture the entire frequency the max hold, Read out maximum peak power leval Value
3, Scale the observed power level get from step to an eguivalent value in 3KHz by adjusting the measured power by a bandwidth correction factor (BWCF), where BWCF=10log(3KHz/ 100KHz=-15.2dB)

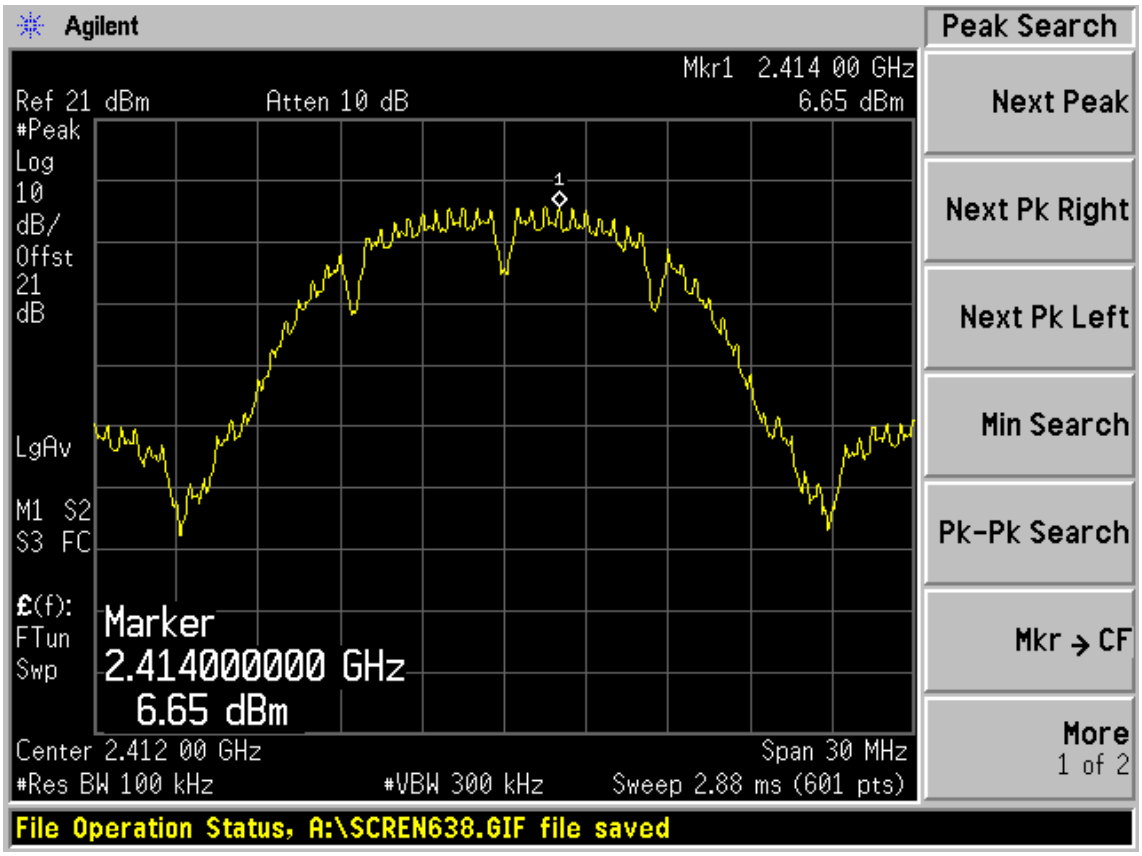
Note: The cable loss and attenuator loss were offset into measure device as an amplitude

9.4.Test Results

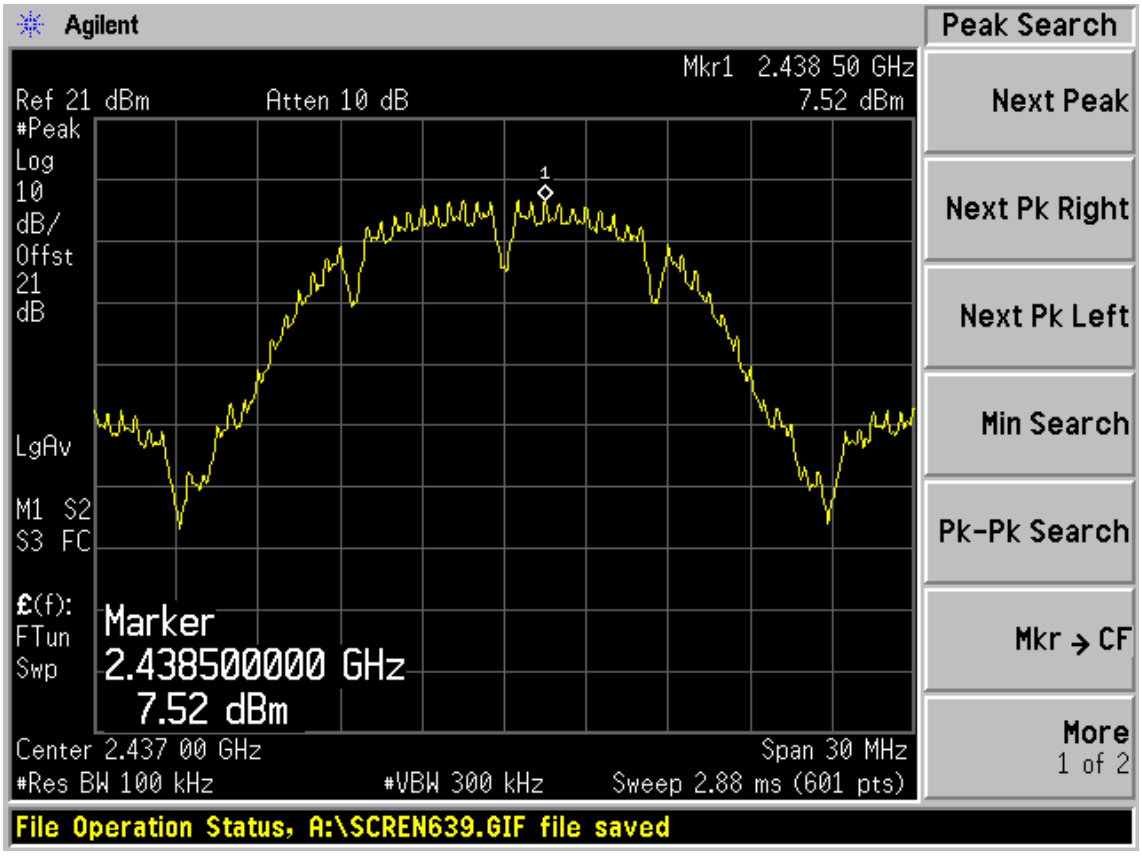
EUT: 3G Wireless N Nano Router		
M/N: PW-3G401M		
Test date: 2012-11-07	Pressure: 101.4±1.0 kpa	Humidity: 53.4±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 21.6±0.6℃

Cable loss: 1 dB		Attenuator loss: 20 dB		Antenna Gain: 0 dBi
Test Mode	CH	Power density （dBm/100KH）	Power density （dBm/3KHz）	Limit (dBm/3KHz)
11b	CH1	6.65	-8.55	8
	CH6	7.52	-7.68	8
	CH11	7.00	-8.2	8
11g	CH1	3.38	-11.82	8
	CH6	6.34	-8.86	8
	CH11	3.61	-11.59	8
11n HT20	CH1	2.74	-12.46	8
	CH6	6.35	-8.85	8
	CH11	3.05	-12.15	8
11n HT40	CH1	-1.30	-16.5	8
	CH4	3.39	-11.81	8
	CH7	-0.64	-15.84	8
BW correction factor = 10log[(3/100KHz)] = -15.2				
Conclusion：PASS				

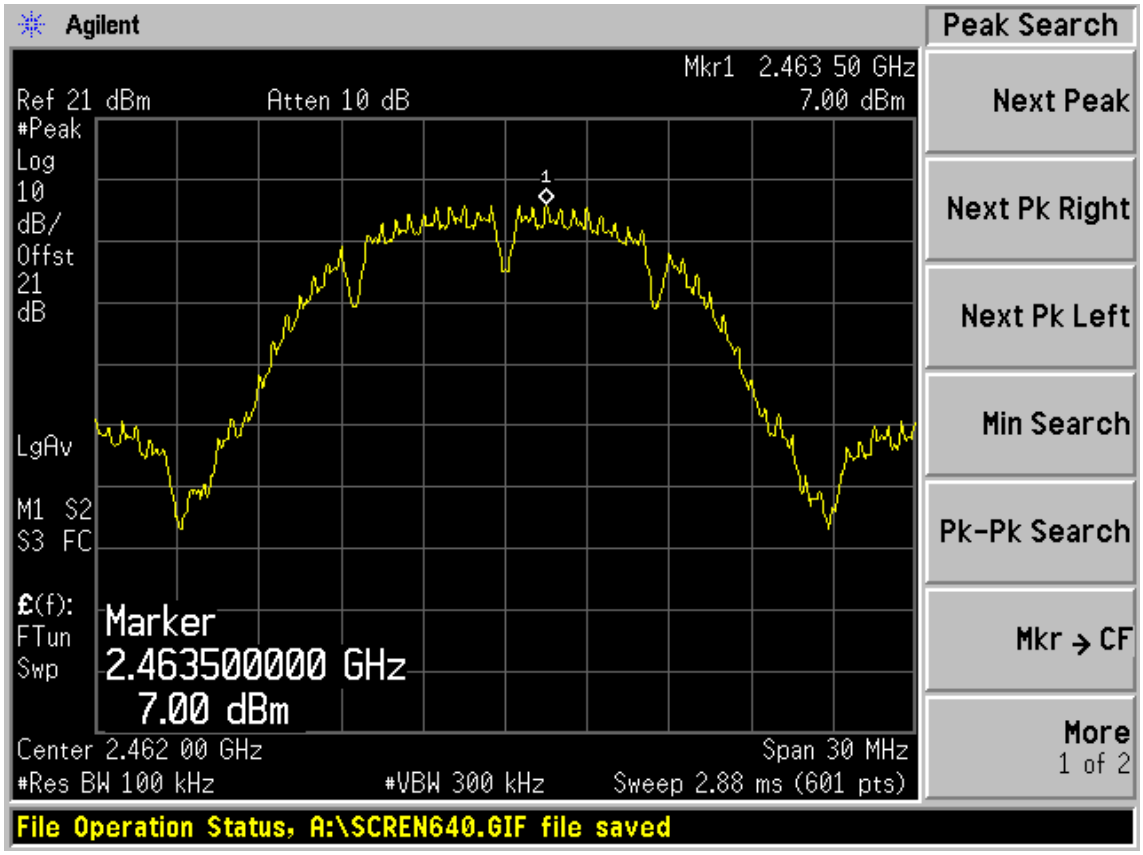
Test Mode: IEEE 802.11b TX
Test CH1: 2412MHz



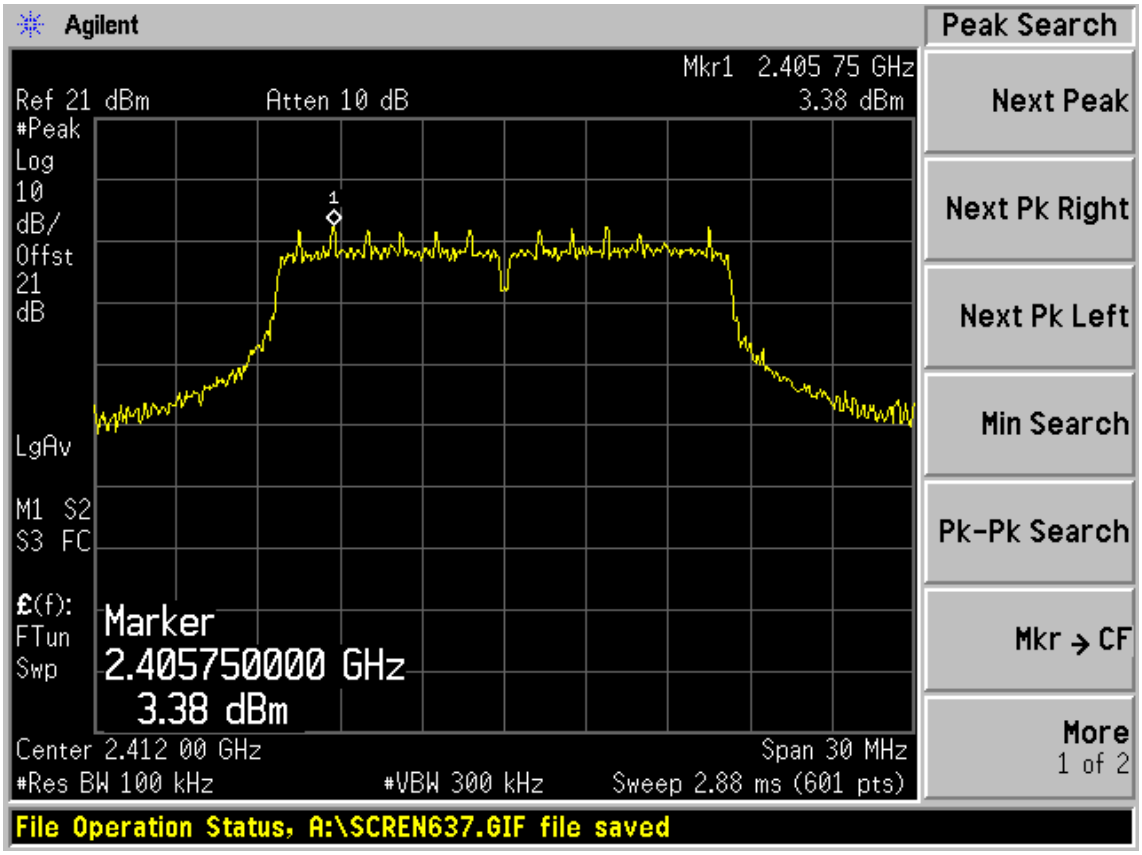
Test CH6: 2437MHz



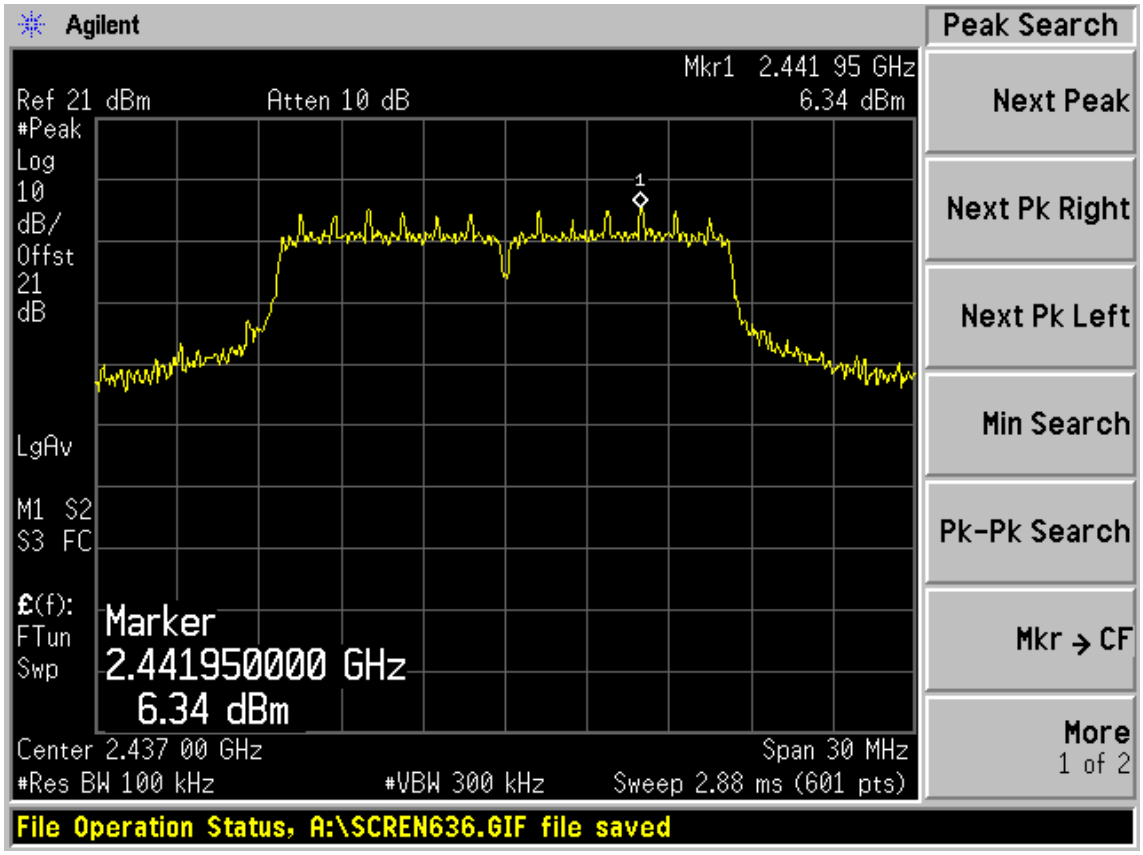
Test CH11: 2462MHz



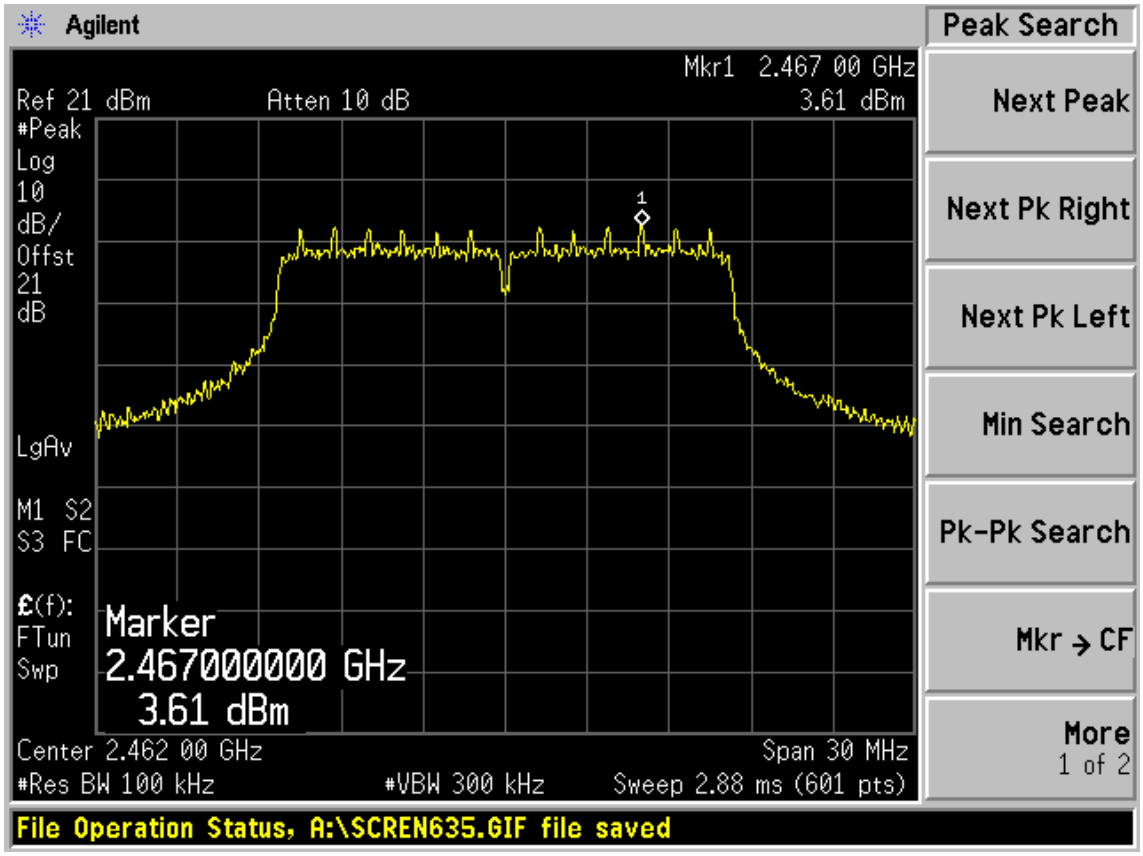
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz



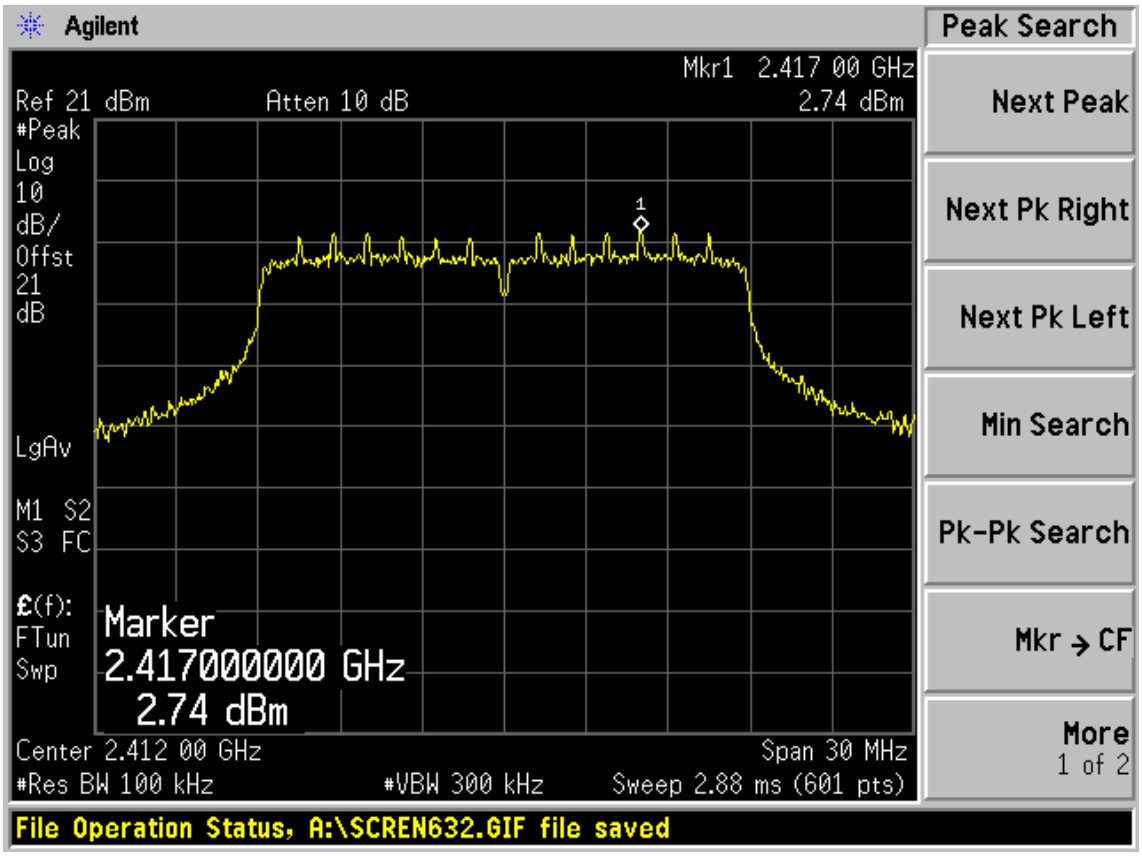
Test CH6: 2437MHz



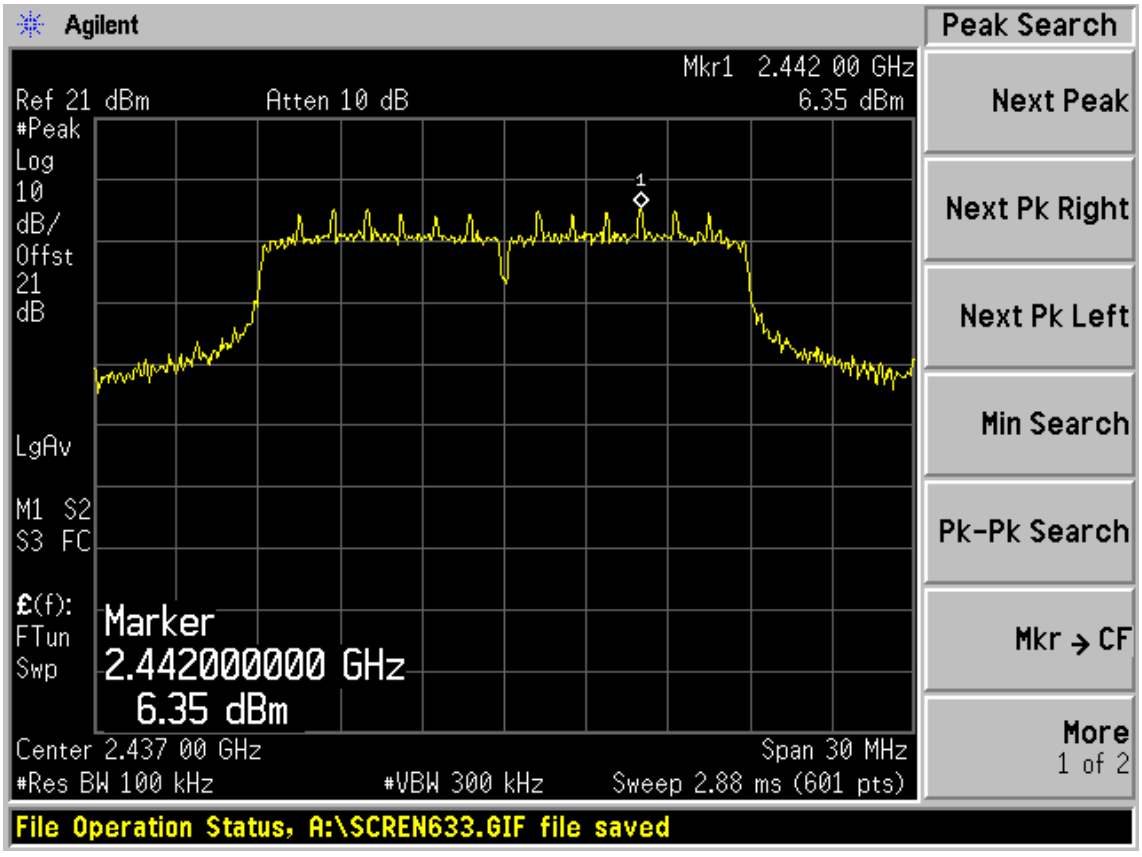
Test CH11: 2462MHz



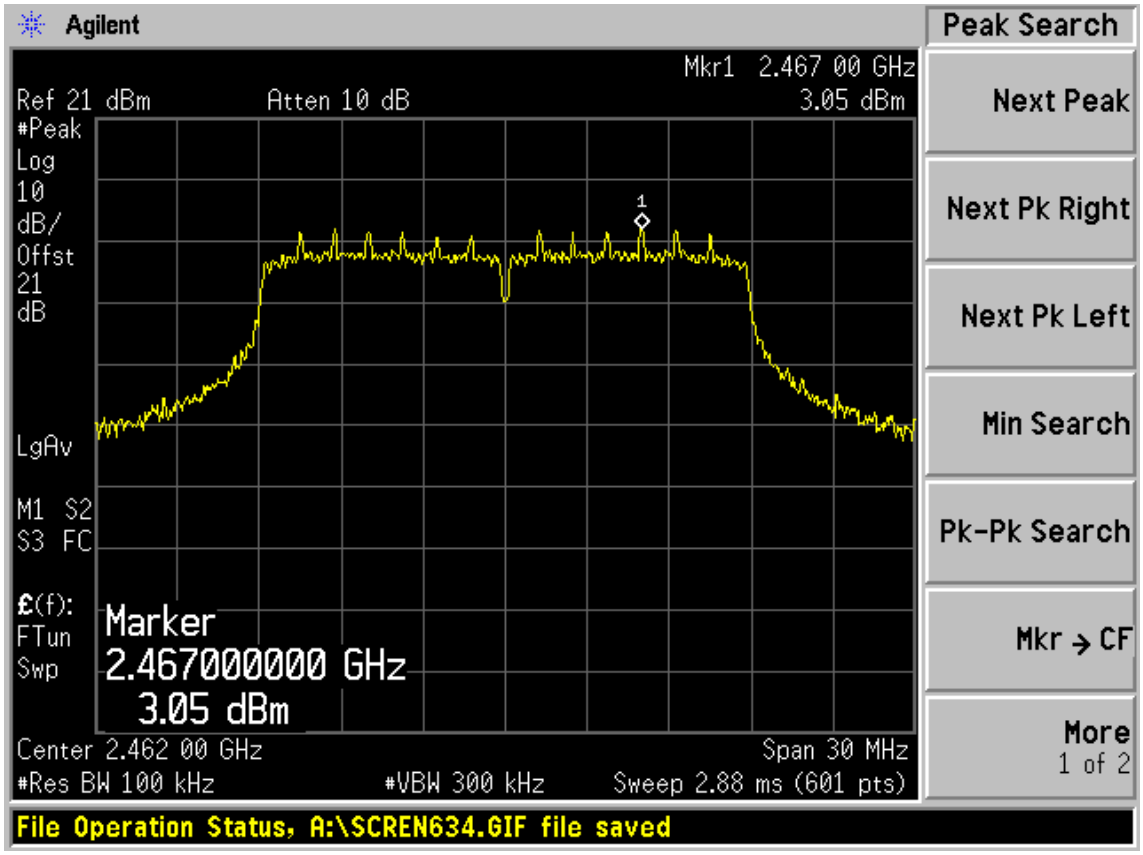
Test Mode: IEEE 802.11n HT20 TX
Test CH1: 2412MHz



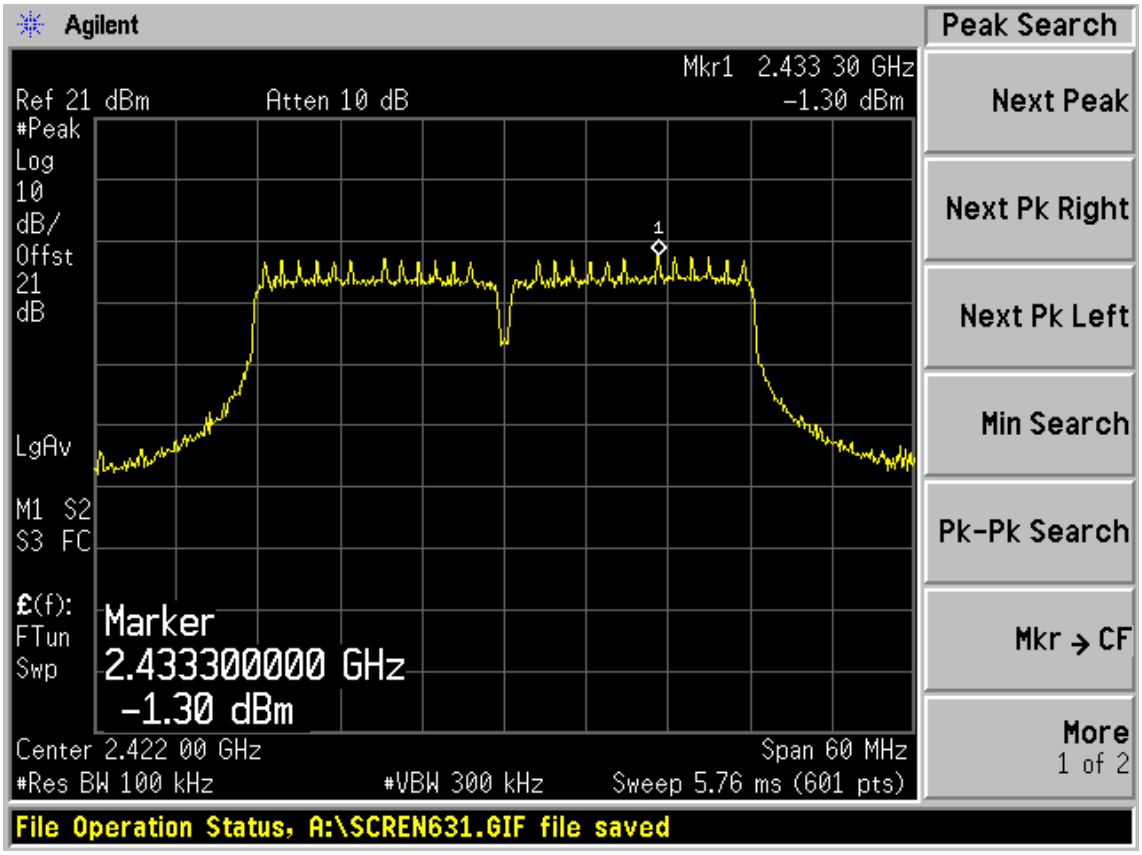
Test CH6: 2437MHz



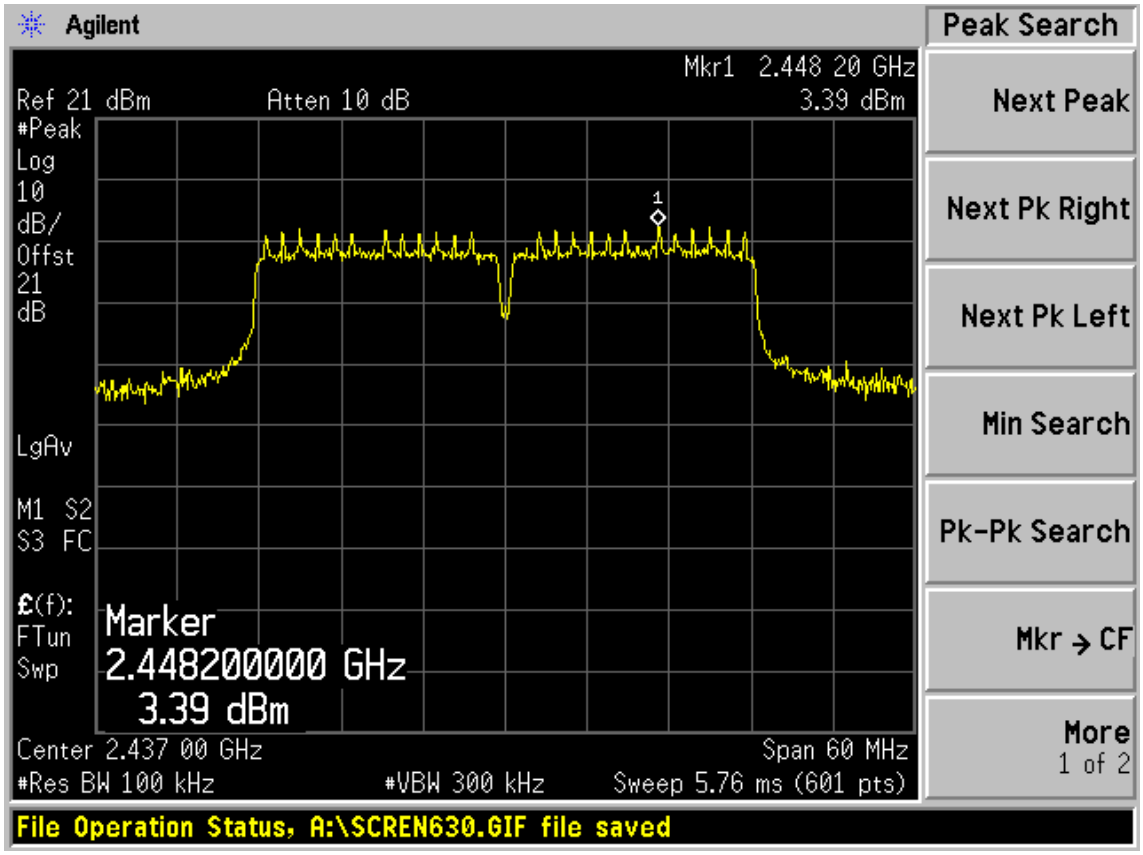
Test CH11: 2462MHz



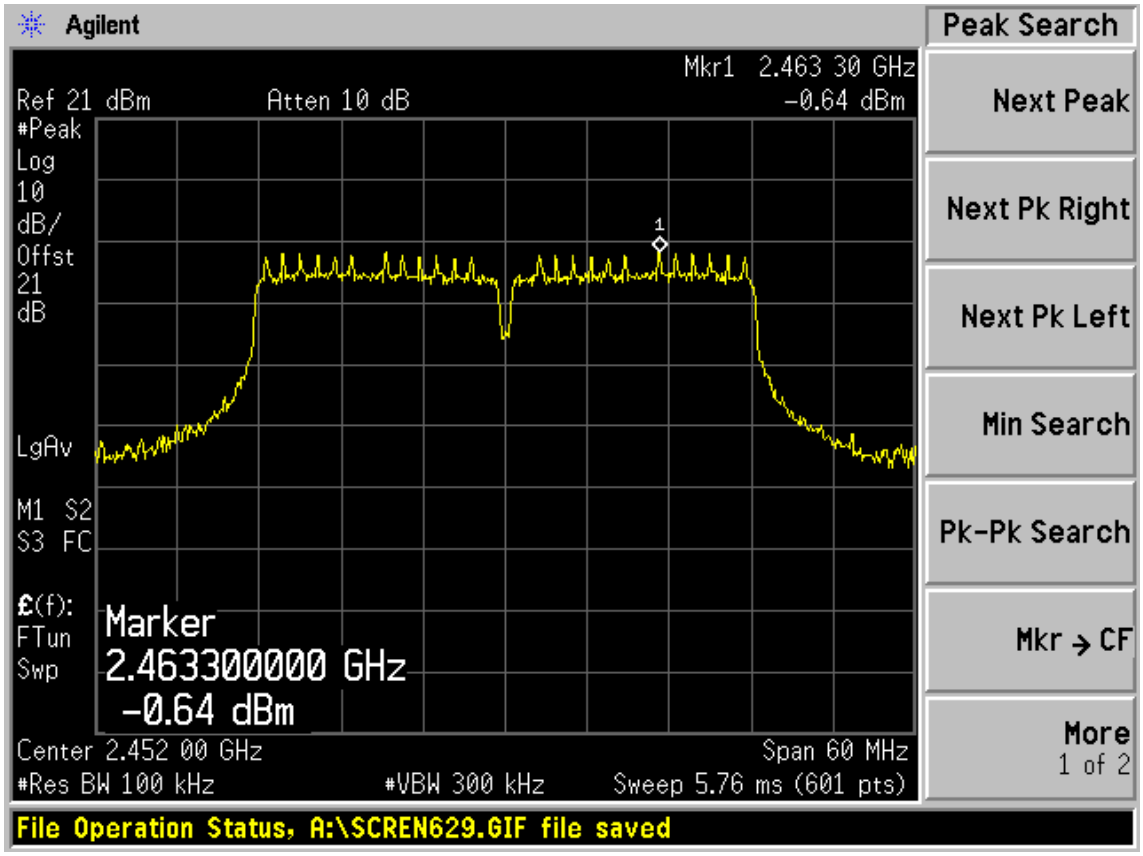
Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz



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 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are PCB 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^2)**	**Averaging time(minutes)**
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	**Power density (mW/ cm^2)**	**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: PW-3G401M		
Test date: 2012-11-01	Pressure: 101.4±1.0 kpa	Humidity: 55.6±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature: 22.4±0.6℃

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

11.3.This device have a SUB interface and it tends to be used for 3G/4G USB dongle,so need MPE Evaluation that this device working along with the

3G/4G USB dongle.

11.4.RF exposure limit

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
(A) Limits for Occupational / Control Exposures				
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6
(B) Limits for General Population / Uncontrolled Exposure				
30-300	27.5	0.073	0.2	30
300-1500	-	-	F/1500	30
1500-100,000	-	-	1.0	30

F= Frequency in MHz

11.5. RF exposure calculations

Power density (S) is calculated by the following formula:

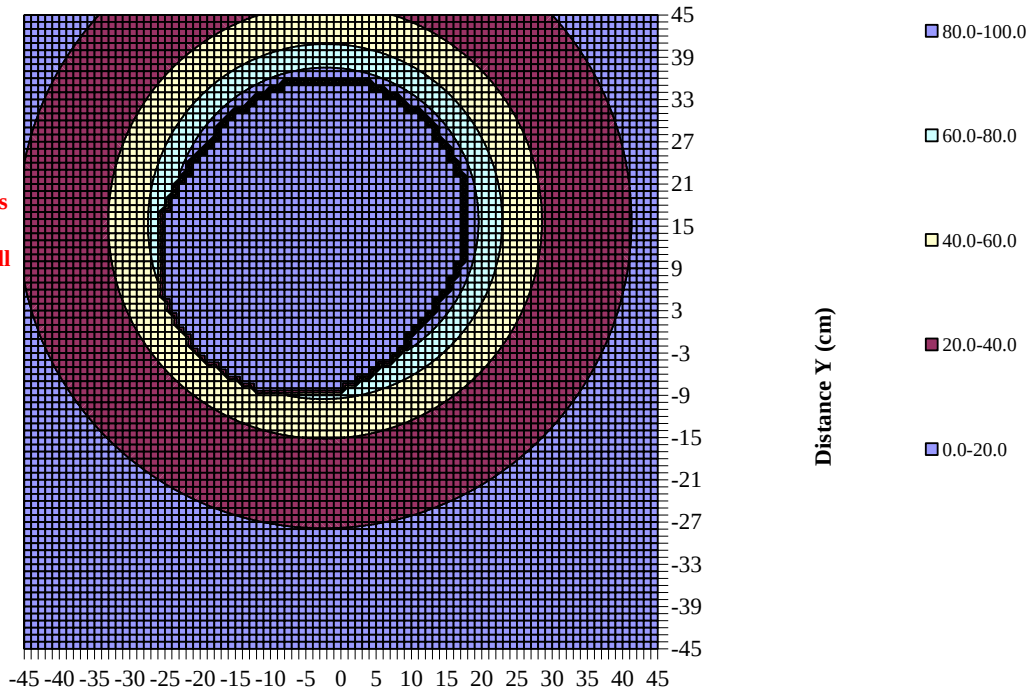
$S = (P * G)/4\pi R^2$

where, S = Power density (mW/cm^2)
P = Output power to antenna (mW)
R = Distance between radiating structure and observation point (cm)
G = Gain of antenna in numeric
$\pi = 3.1416$

11.6.Test result

Antenna No.		Total	1	2	3	4	5	6
Tx Status			On	On	Off	Off	Off	Off
Frequency	MHz		850	2450	1900	2450	2450	5800
MPE Limit	mW/cm^2		0.57	1.00	0.00	0.00	0.00	0.00
Max % MPE	%	94.1	88.4	6.2	0.0	0.0	0.0	0.0
Power	(W)	2.313	2.000	0.313	0.000	0.000	0.000	0.000
Antenna Gain	dBi		1.00	0.00	3.00	1.50	0.50	1.00
EIRP	(W)	2.83	2.518	0.313	0.000	0.000	0.000	0.000
X	(cm)		-2.0	-6.0	9.0	4.0	-8.0	8.0
Y	(cm)		16.0	11.0	11.0	0.0	0.0	0.0
Sector			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
θ_1	degs	input	-120	-120	-120	-120	-120	-120
θ_2			60	60	60	60	60	60
θ_1		actual	-120	-120	-120	-120	-120	-120
θ_2			60	60	60	60	60	60

% MPE Contour



Note: The 0% contour surrounding the antennas identifies a 20 cm perimeter surrounding all active antennas

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]