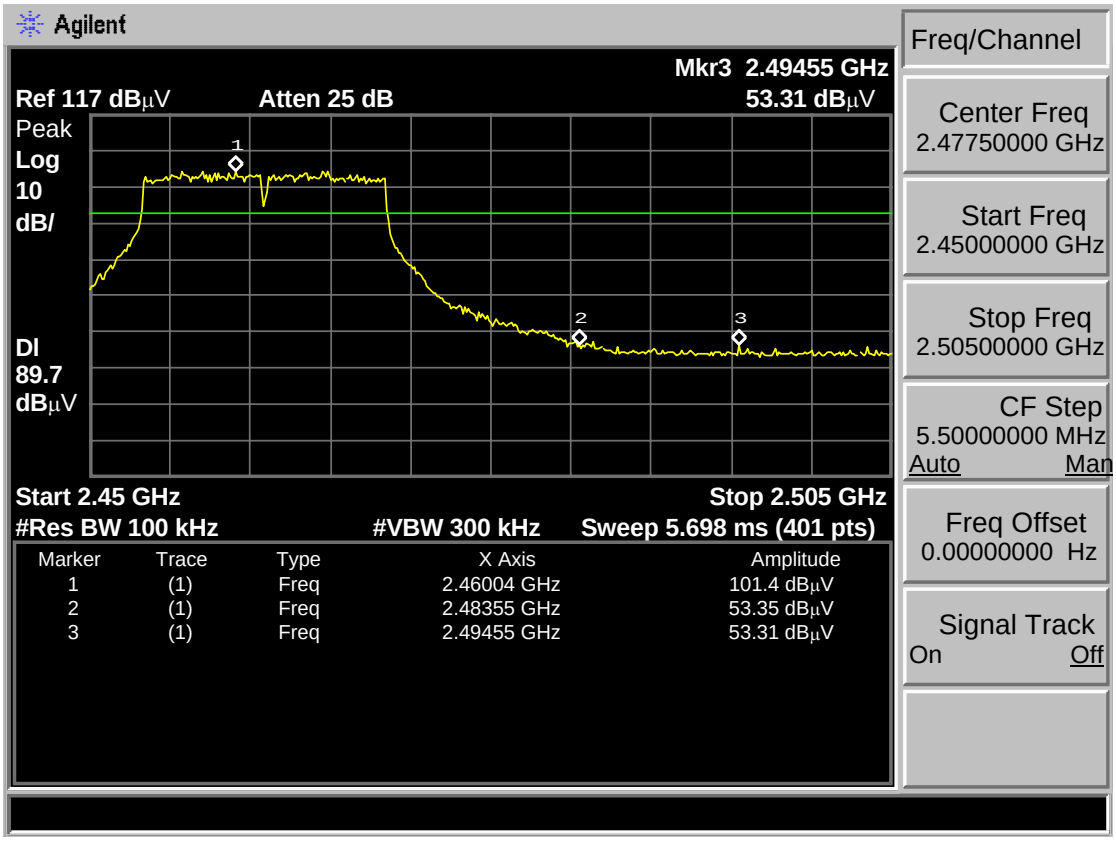
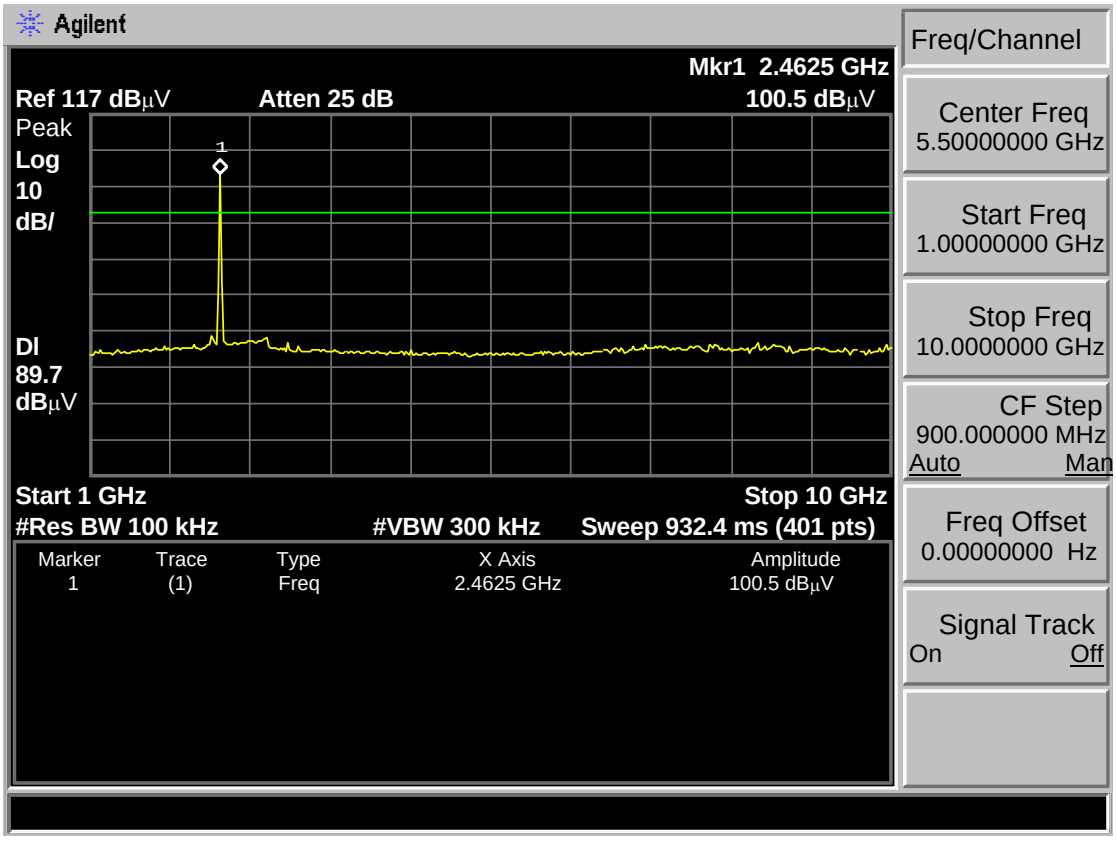
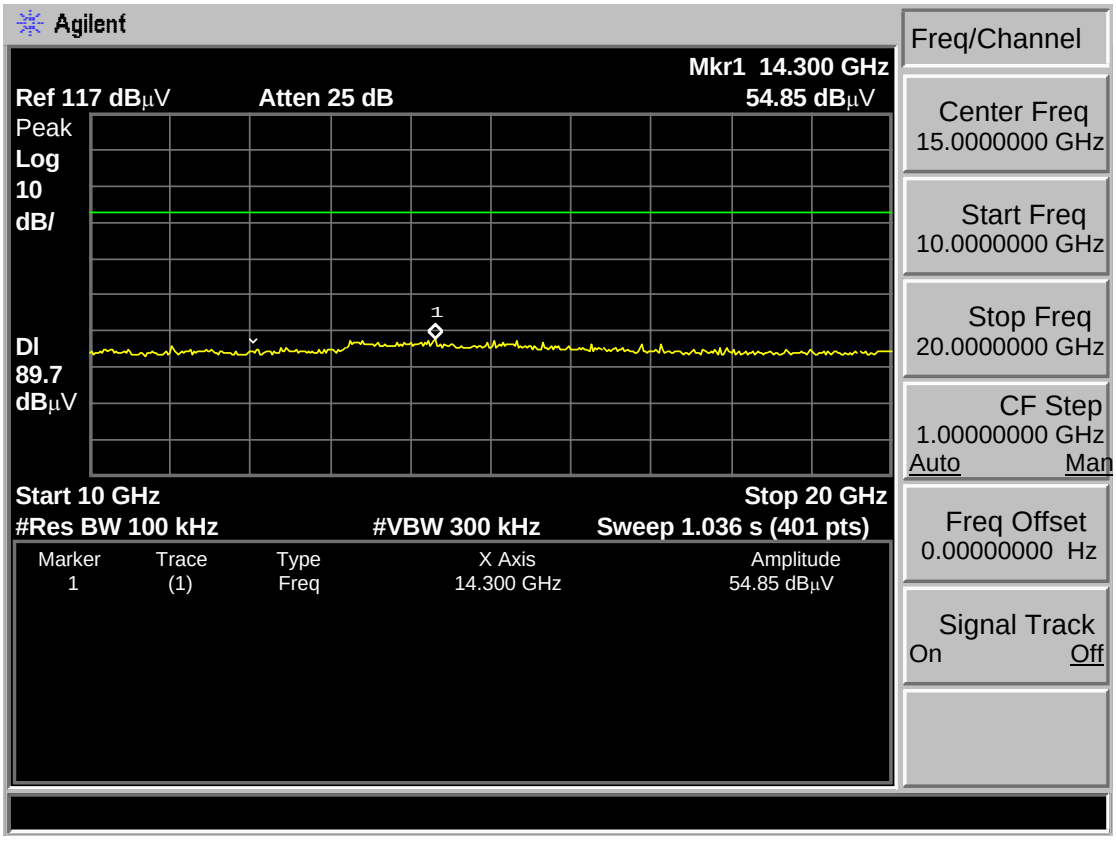
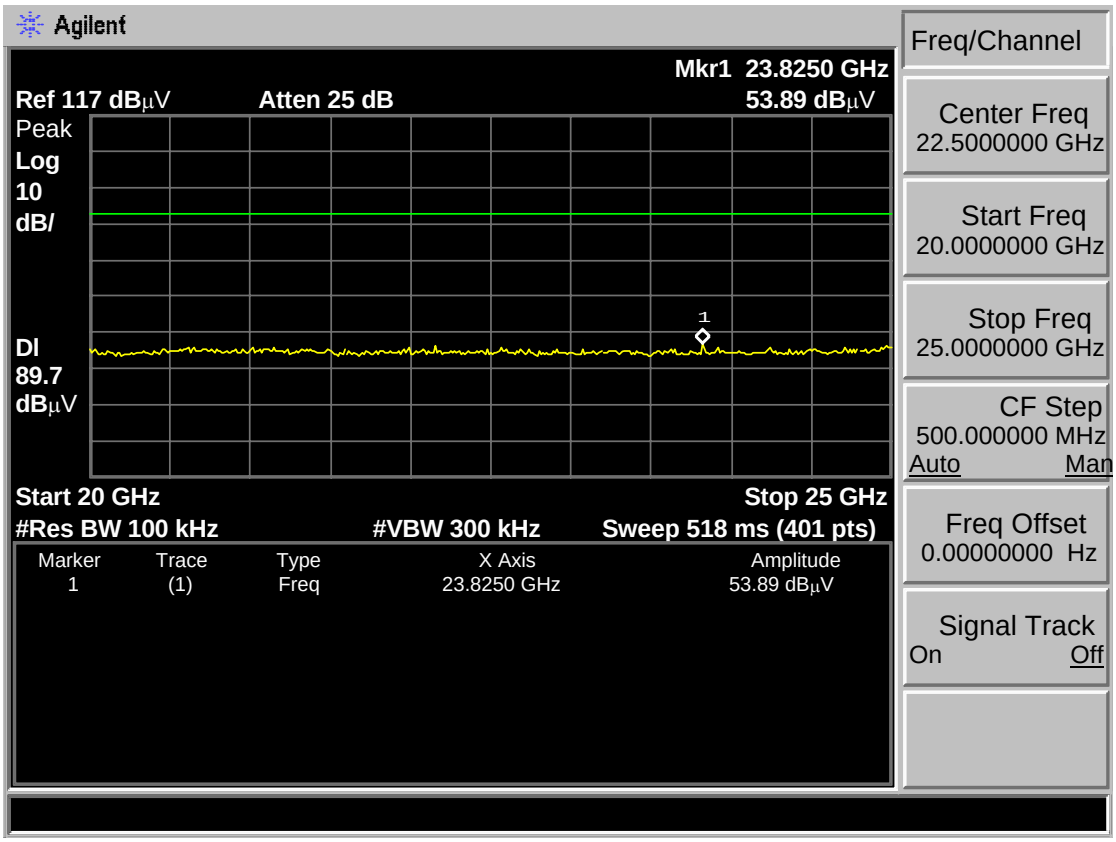
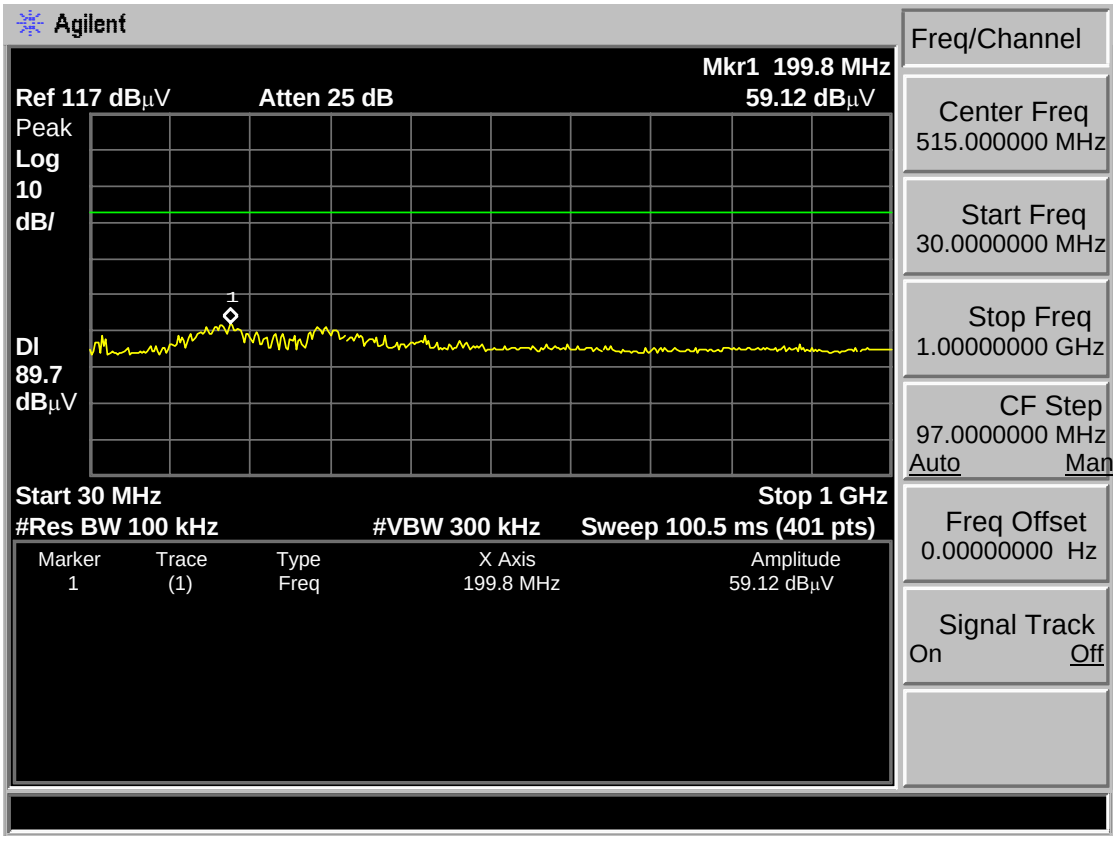
CH11


Agilent
Freq/Channel
Mkr3 2.49455 GHz
Ref 117 dBµV
Atten 25 dB
53.31 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Center Freq
2.47750000 GHz
Start Freq
2.45000000 GHz
Stop Freq
2.50500000 GHz
CF Step
5.50000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Start 2.45 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.505 GHz
Sweep 5.698 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.46004 GHz 101.4 dBµV
2 (1) Freq 2.48355 GHz 53.35 dBµV
3 (1) Freq 2.49455 GHz 53.31 dBµV

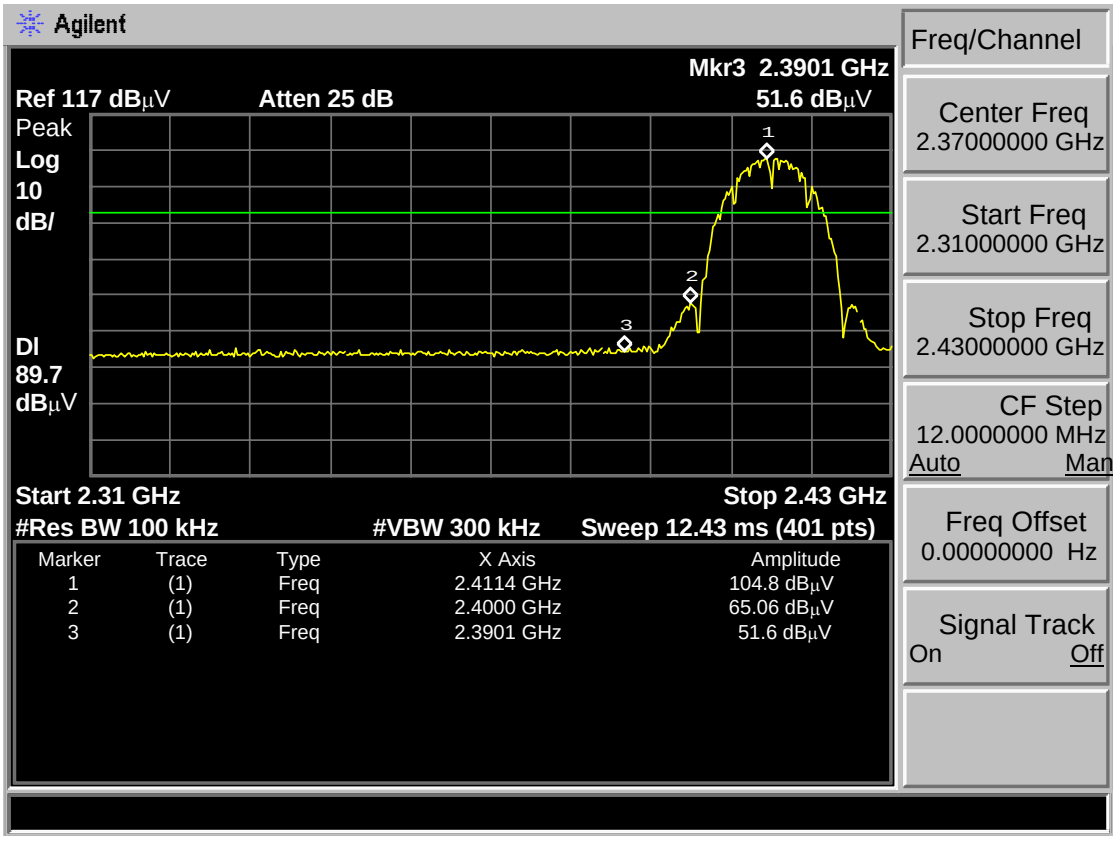

Agilent
Freq/Channel
Mkr1 2.4625 GHz
Ref 117 dBµV
Atten 25 dB
100.5 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Center Freq
5.50000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
10.0000000 GHz
CF Step
900.000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off
Start 1 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10 GHz
Sweep 932.4 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.4625 GHz 100.5 dBµV

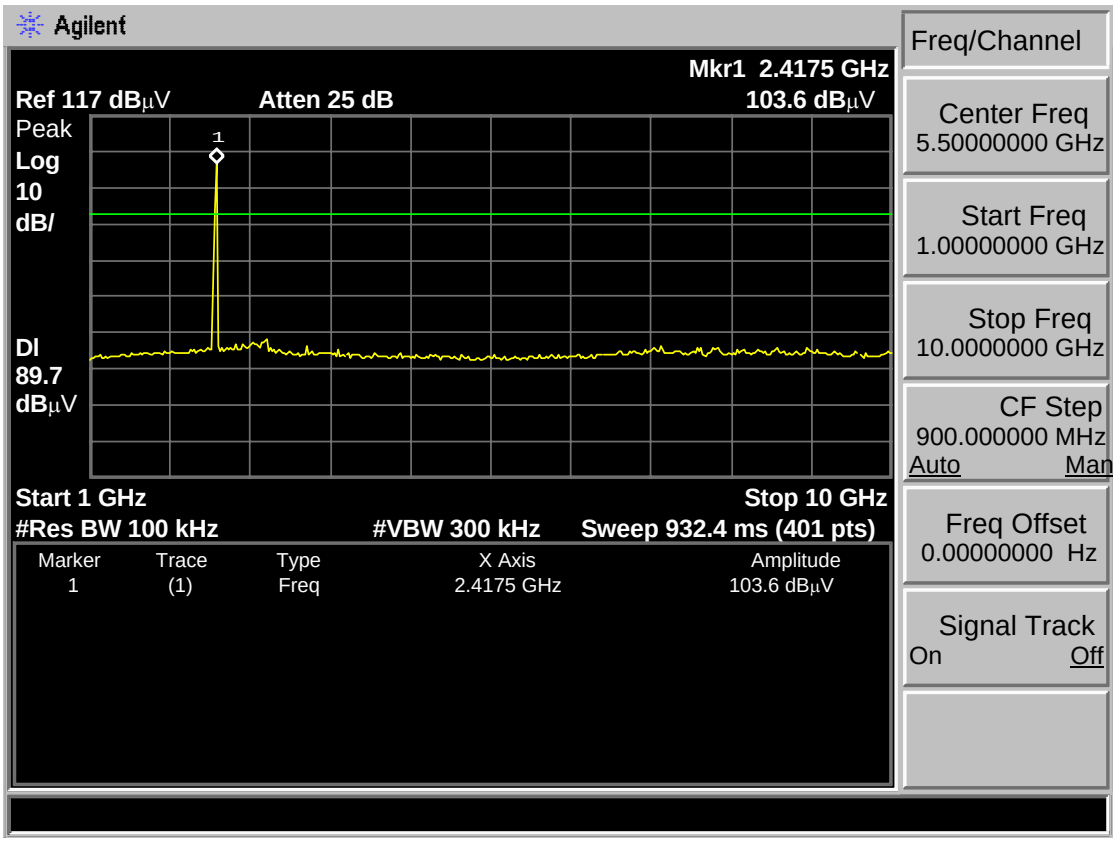

Agilent
Mkr1 14.300 GHz
Ref 117 dBµV
Atten 25 dB
54.85 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 10 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.036 s (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 14.300 GHz 54.85 dBµV
Freq/Channel
Center Freq
15.0000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.00000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

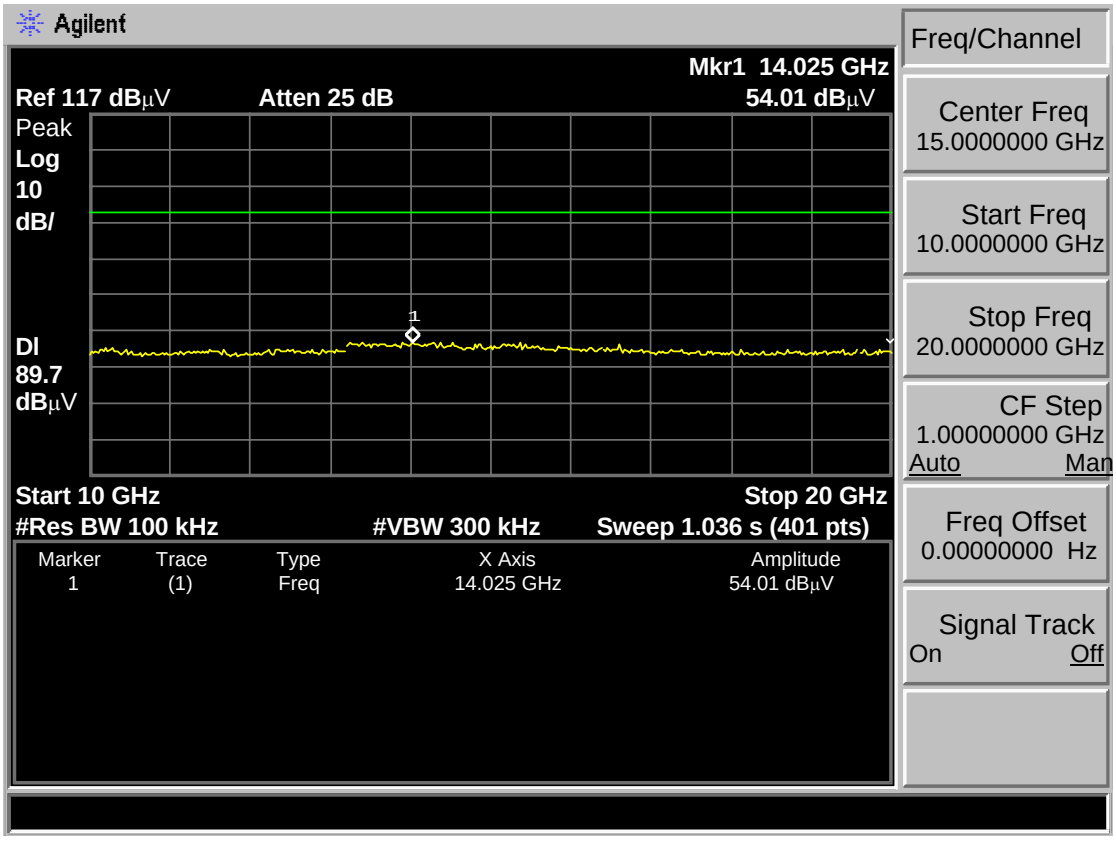

Agilent
Mkr1 23.8250 GHz
Ref 117 dBµV
Atten 25 dB
53.89 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 23.8250 GHz 53.89 dBµV
Freq/Channel
Center Freq
22.5000000 GHz
Start Freq
20.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
500.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

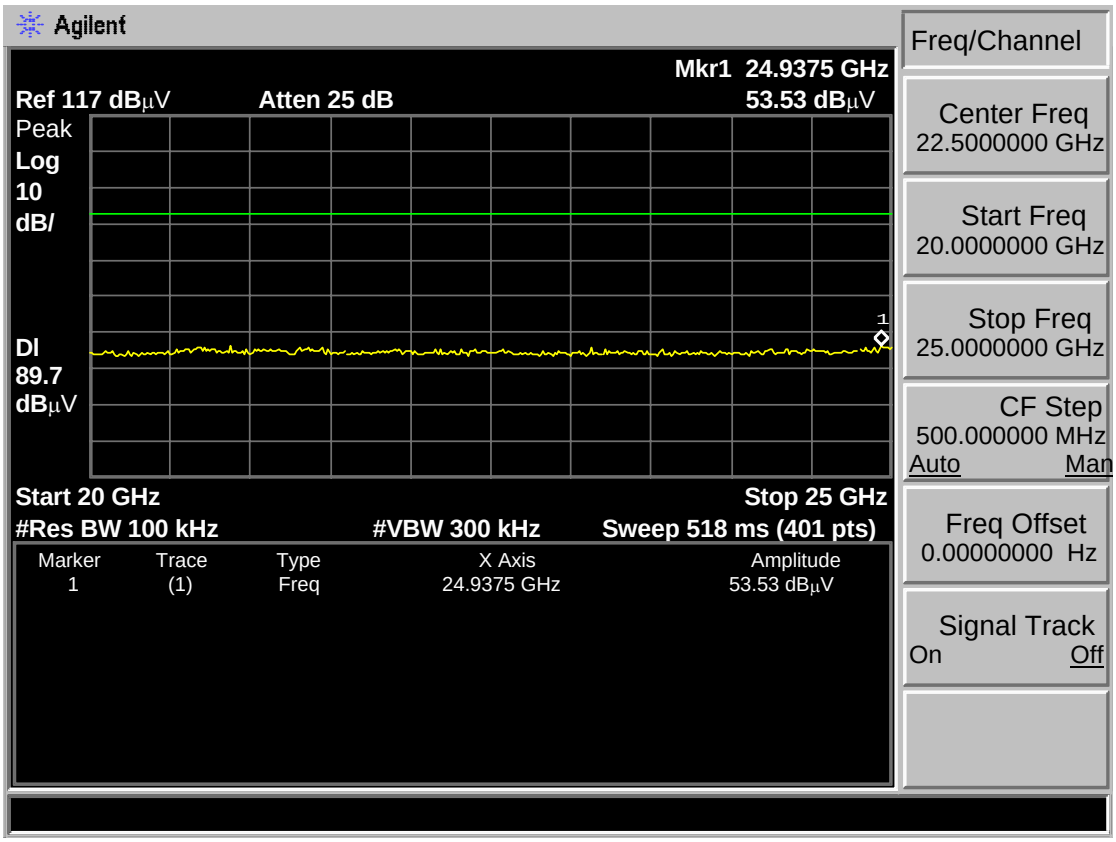

Agilent
Mkr1 199.8 MHz
Ref 117 dBµV
Atten 25 dB
59.12 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 199.8 MHz 59.12 dBµV
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

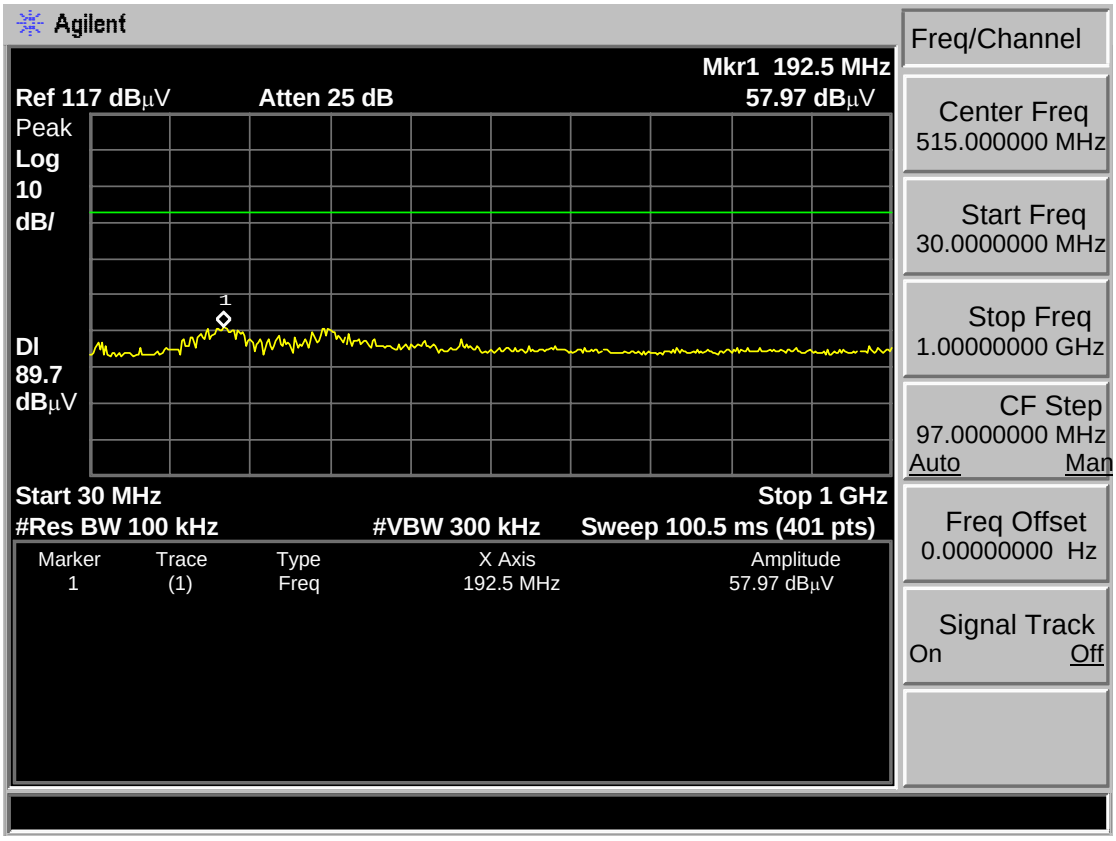
Test Mode: IEEE 802. 11b TX (Ant 2)
CH1



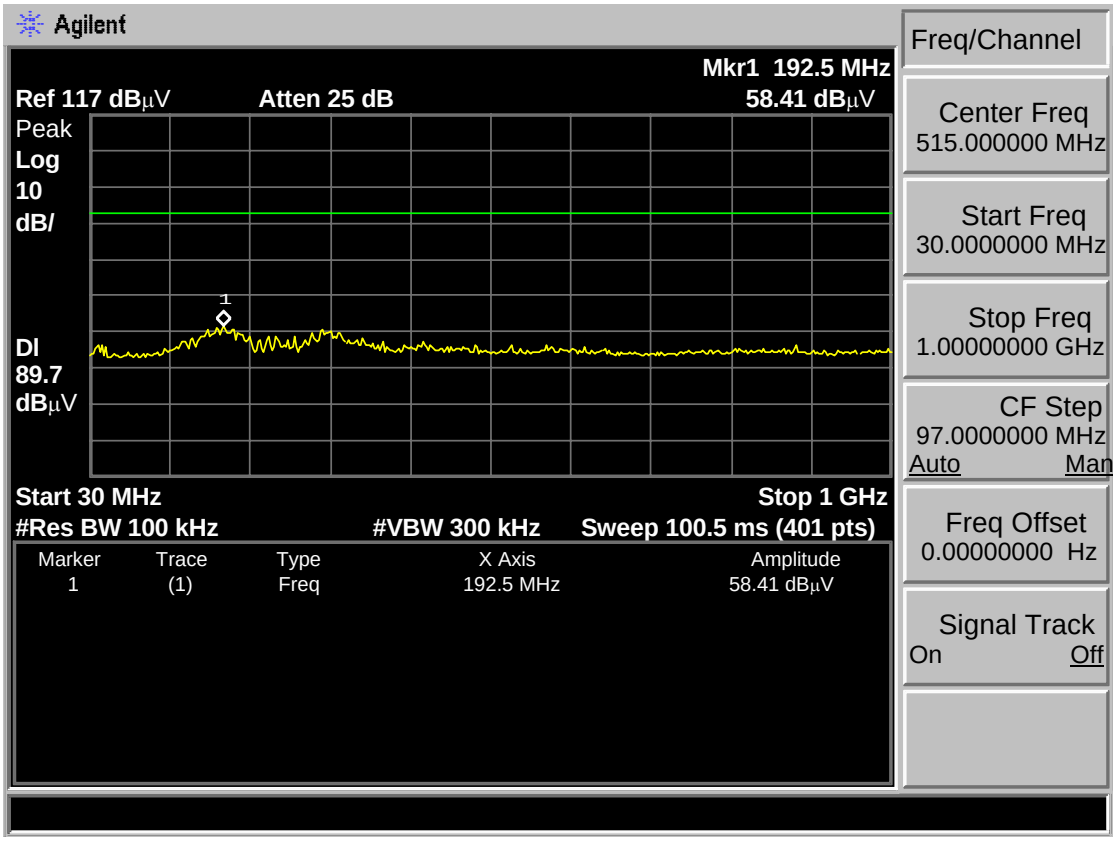


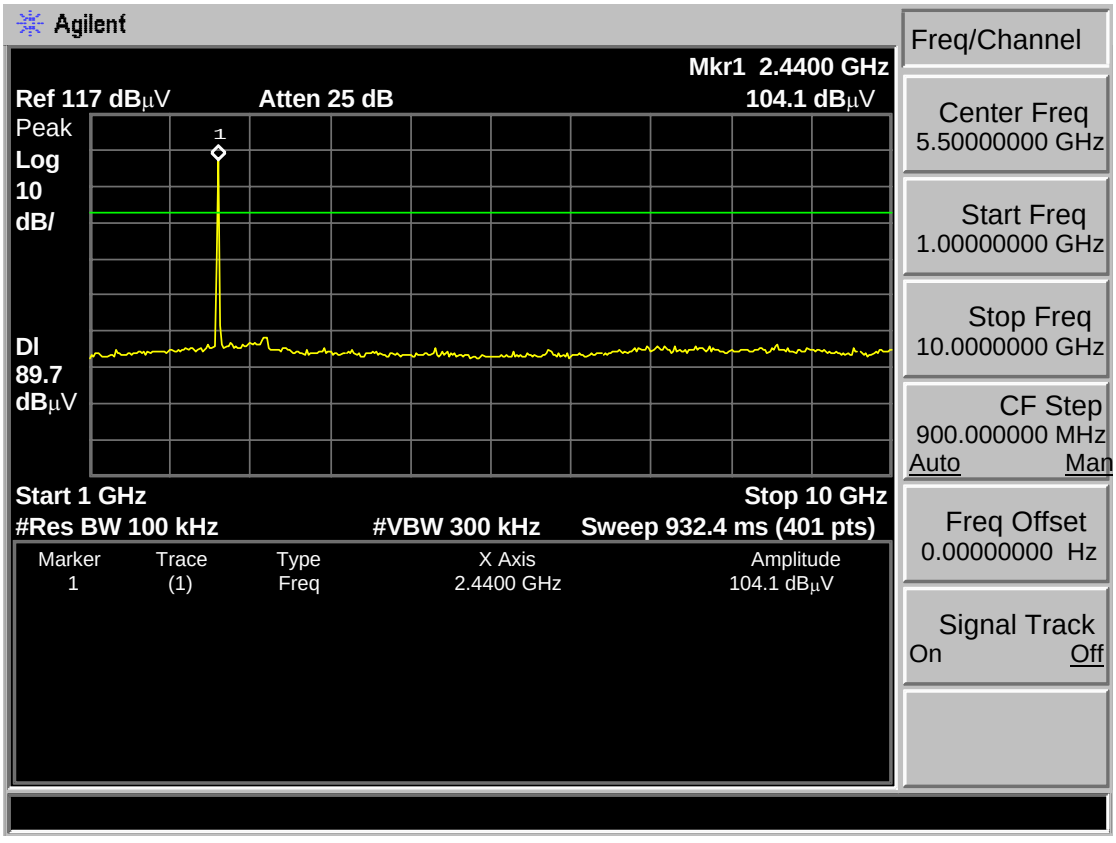

Agilent
Mkr1 14.025 GHz
Ref 117 dBµV
Atten 25 dB
54.01 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 20 GHz
Sweep 1.036 s (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 14.025 GHz 54.01 dBµV
Freq/Channel
Center Freq
15.0000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.00000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

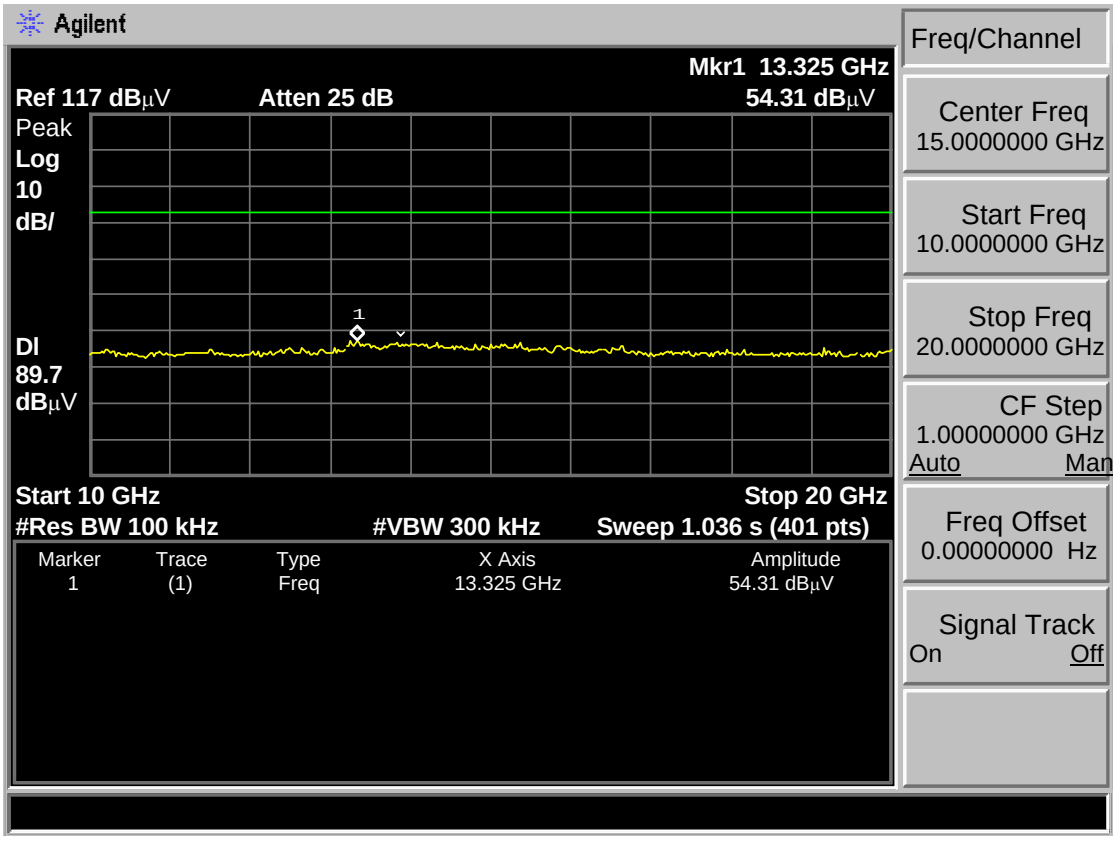

Agilent
Mkr1 24.9375 GHz
Ref 117 dBµV
Atten 25 dB
53.53 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 518 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.9375 GHz 53.53 dBµV
Freq/Channel
Center Freq
22.5000000 GHz
Start Freq
20.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
500.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

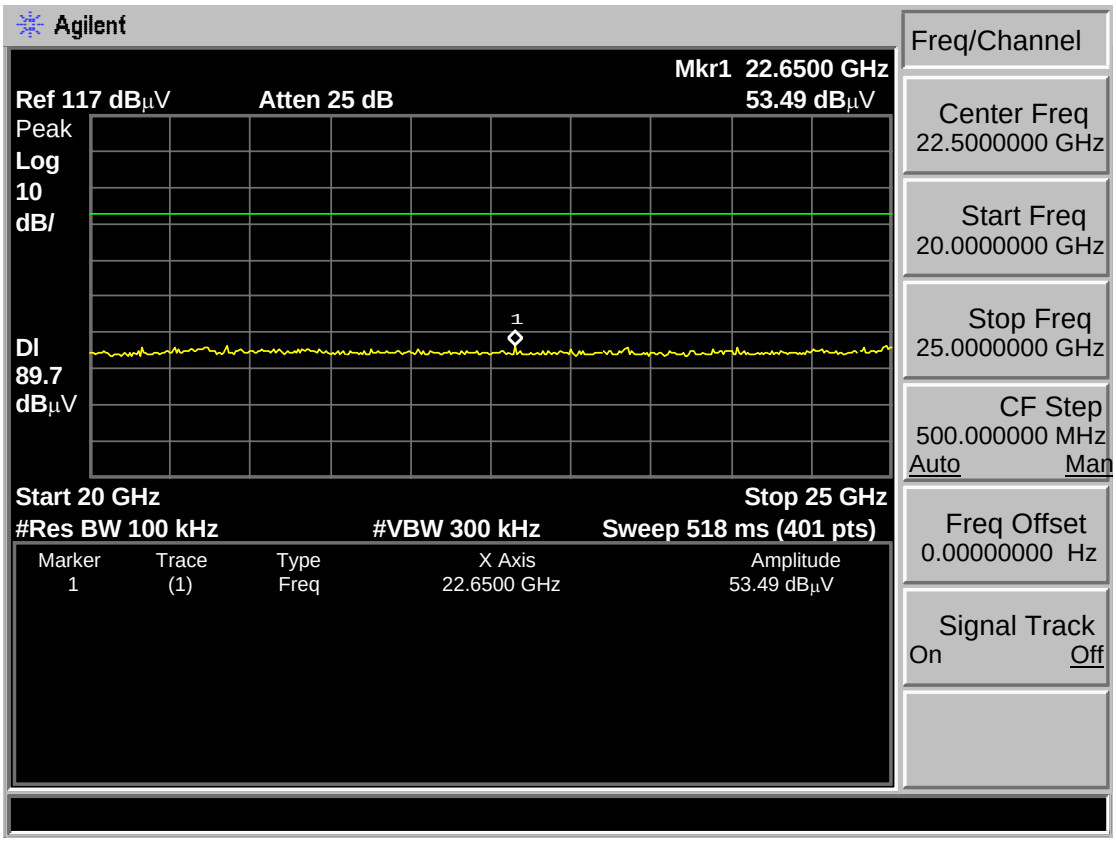

Agilent
Mkr1 192.5 MHz
Ref 117 dBµV
Atten 25 dB
57.97 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 192.5 MHz 57.97 dBµV
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

CH6

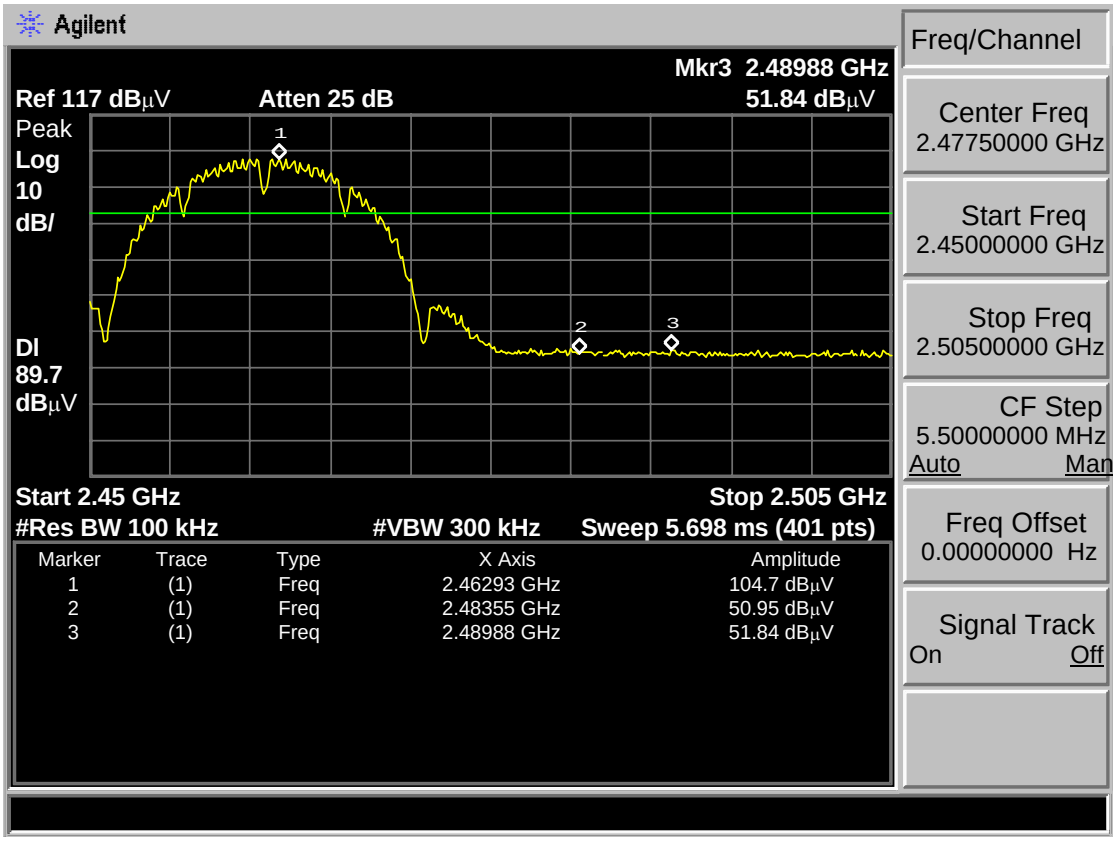

Agilent
Mkr1 192.5 MHz
Ref 117 dBµV
Atten 25 dB
58.41 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 192.5 MHz 58.41 dBµV
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

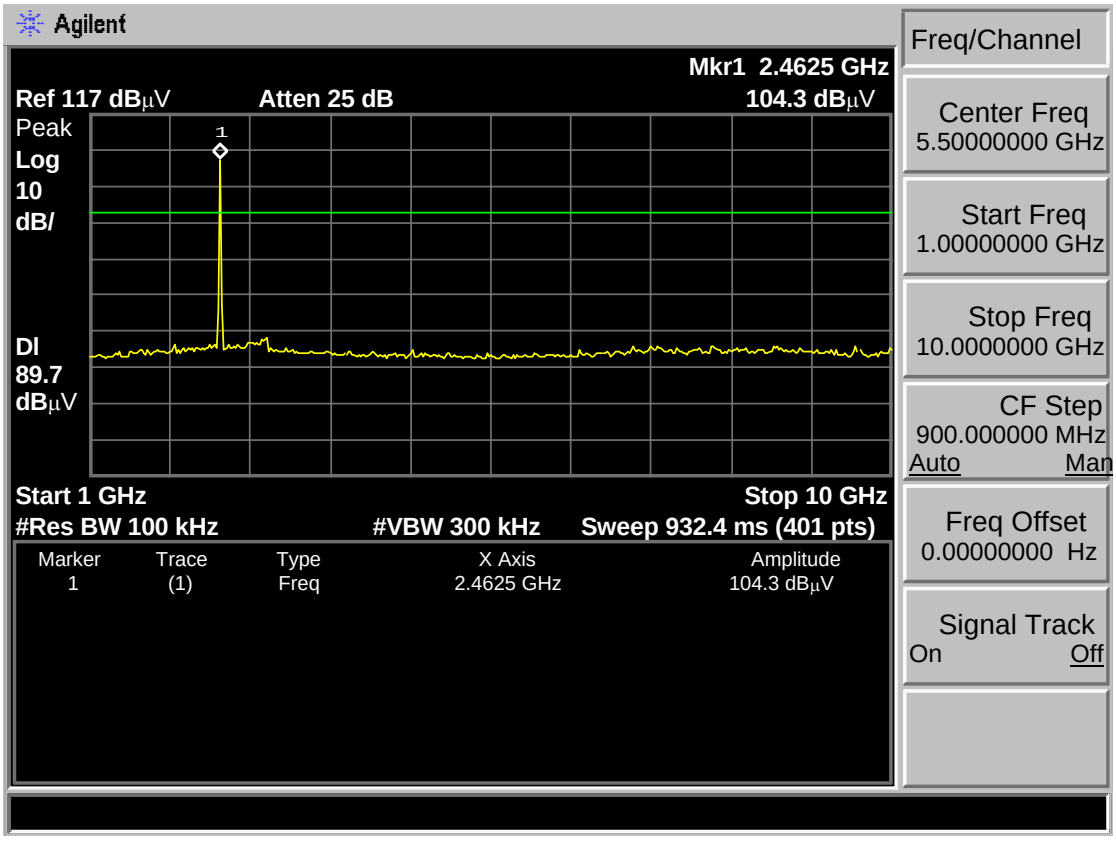

Agilent
Mkr1 2.4400 GHz
Ref 117 dBµV
Atten 25 dB
104.1 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 1 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10 GHz
Sweep 932.4 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.4400 GHz 104.1 dBµV
Freq/Channel
Center Freq
5.50000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
10.0000000 GHz
CF Step
900.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

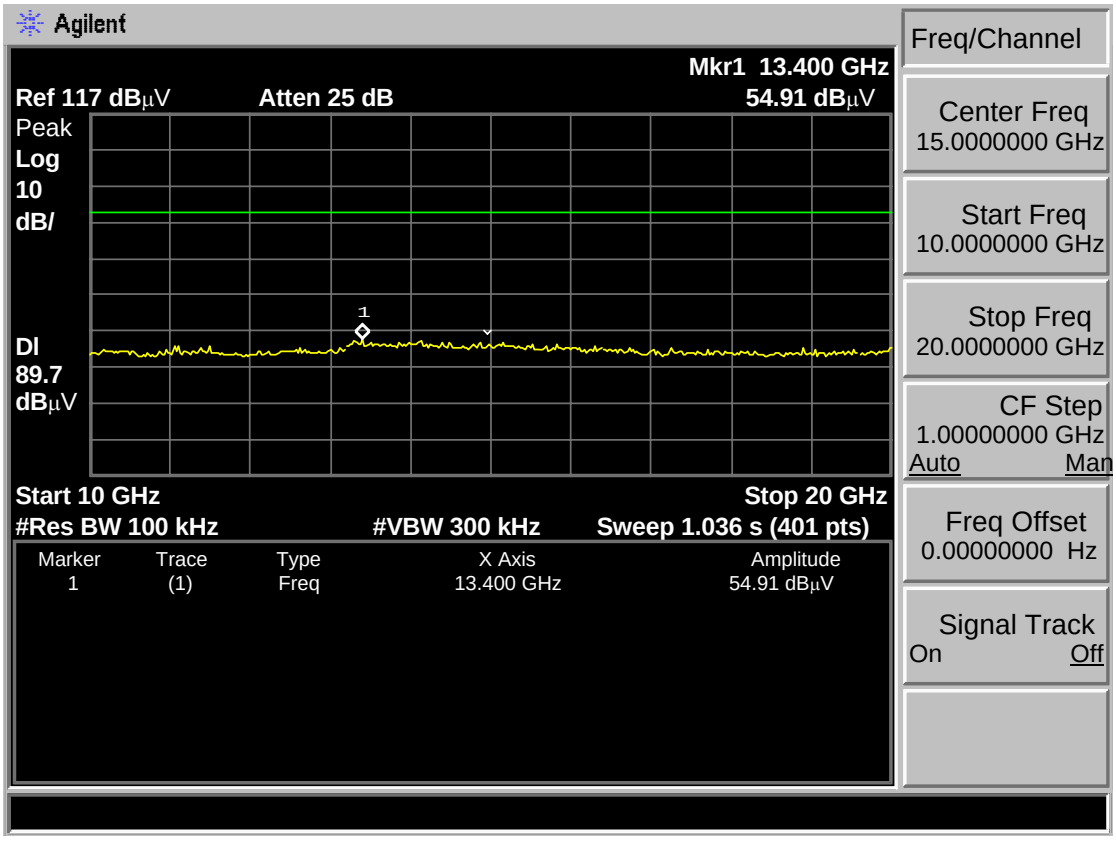

Agilent
Mkr1 13.325 GHz
Ref 117 dBµV
Atten 25 dB
54.31 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 10 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.036 s (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 13.325 GHz 54.31 dBµV
Freq/Channel
Center Freq
15.0000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.00000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

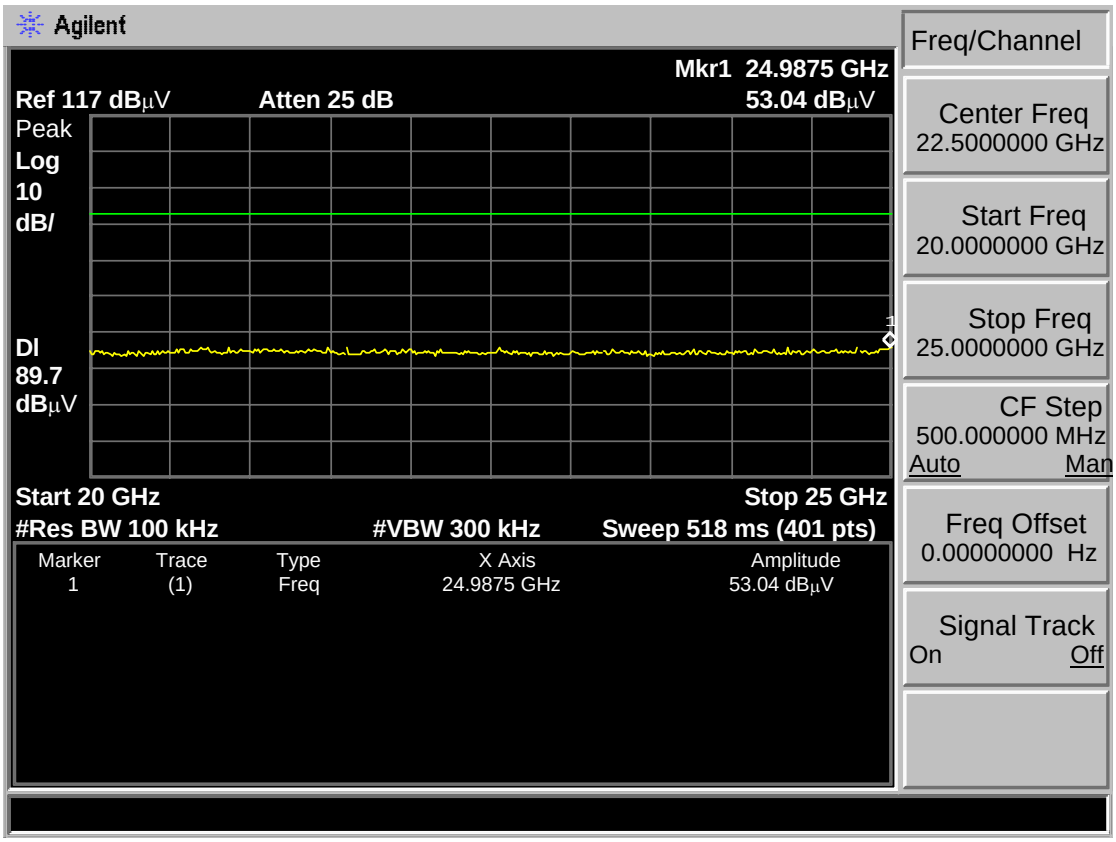

Agilent
Mkr1 22.6500 GHz
Ref 117 dBµV
Atten 25 dB
53.49 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 22.6500 GHz 53.49 dBµV
Freq/Channel
Center Freq
22.5000000 GHz
Start Freq
20.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
500.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

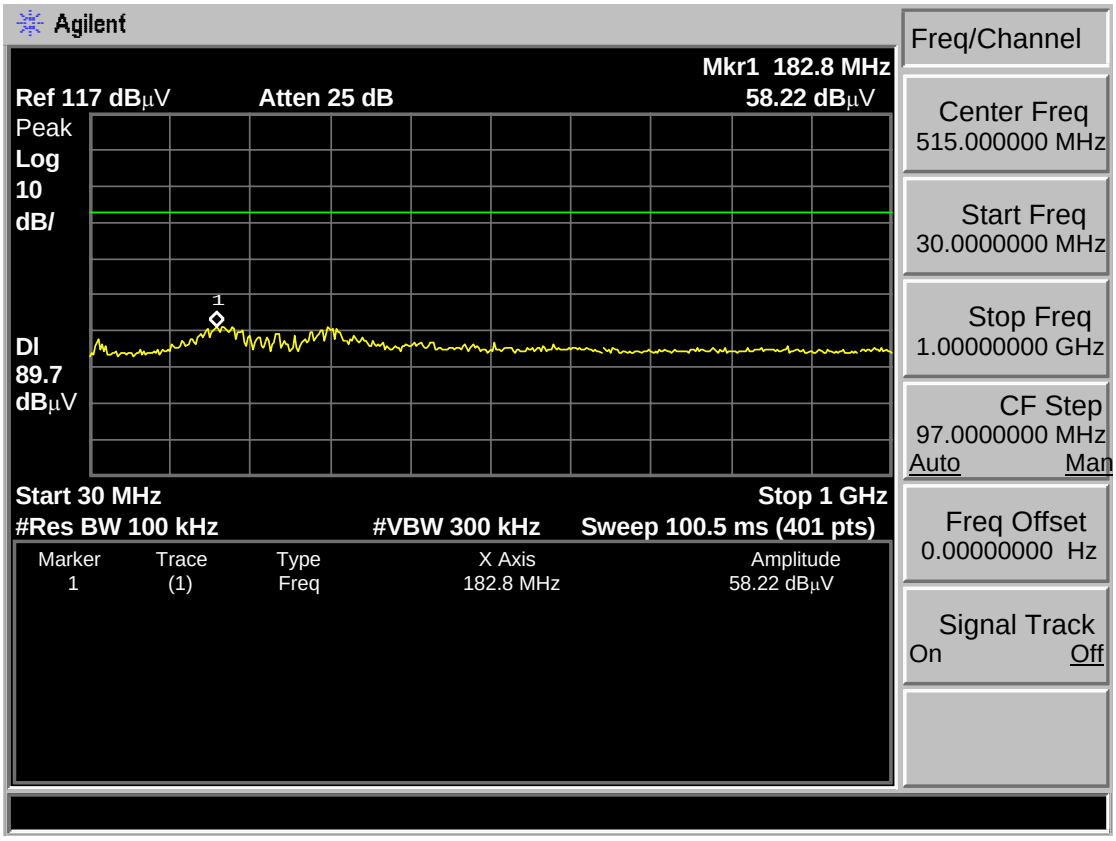
CH11


Agilent
Mkr3 2.48988 GHz
Ref 117 dBµV
Atten 25 dB
51.84 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 2.45 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.505 GHz
Sweep 5.698 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.46293 GHz 104.7 dBµV
2 (1) Freq 2.48355 GHz 50.95 dBµV
3 (1) Freq 2.48988 GHz 51.84 dBµV
Freq/Channel
Center Freq
2.47750000 GHz
Start Freq
2.45000000 GHz
Stop Freq
2.50500000 GHz
CF Step
5.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

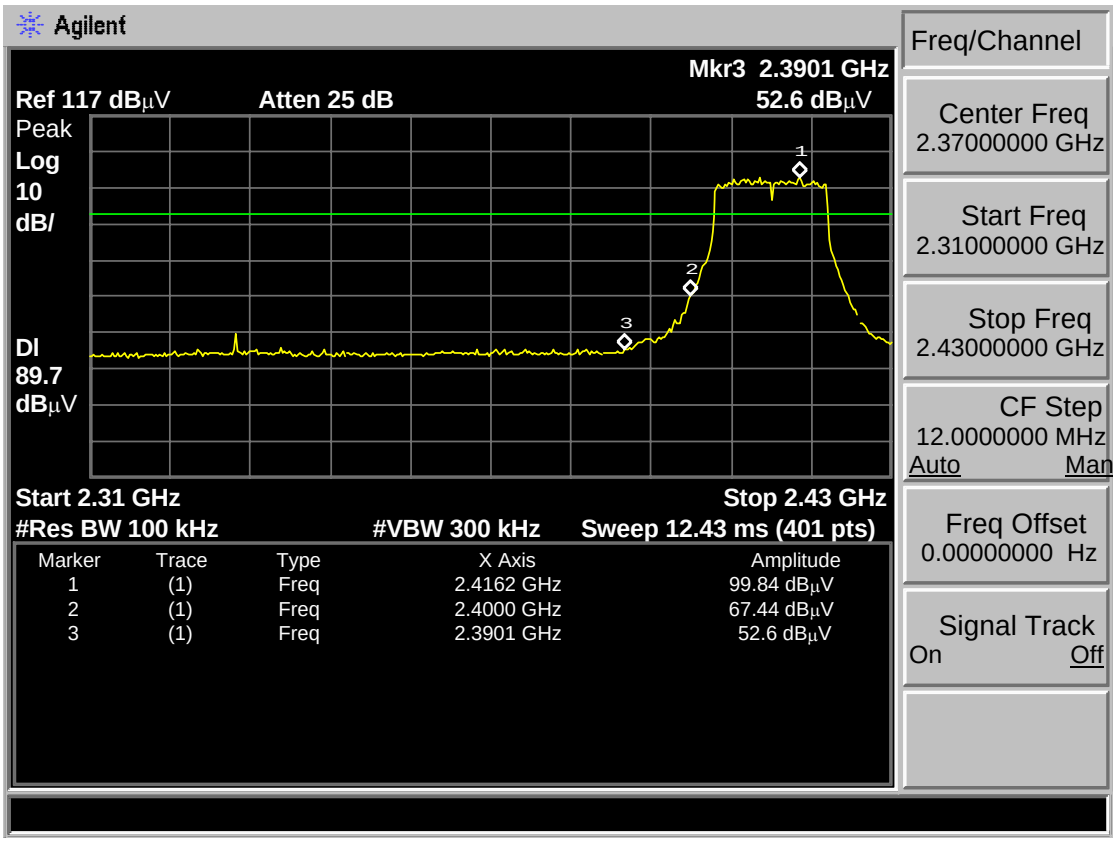

Agilent
Mkr1 2.4625 GHz
Ref 117 dBµV
Atten 25 dB
104.3 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 1 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10 GHz
Sweep 932.4 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.4625 GHz 104.3 dBµV
Freq/Channel
Center Freq
5.50000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
10.0000000 GHz
CF Step
900.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

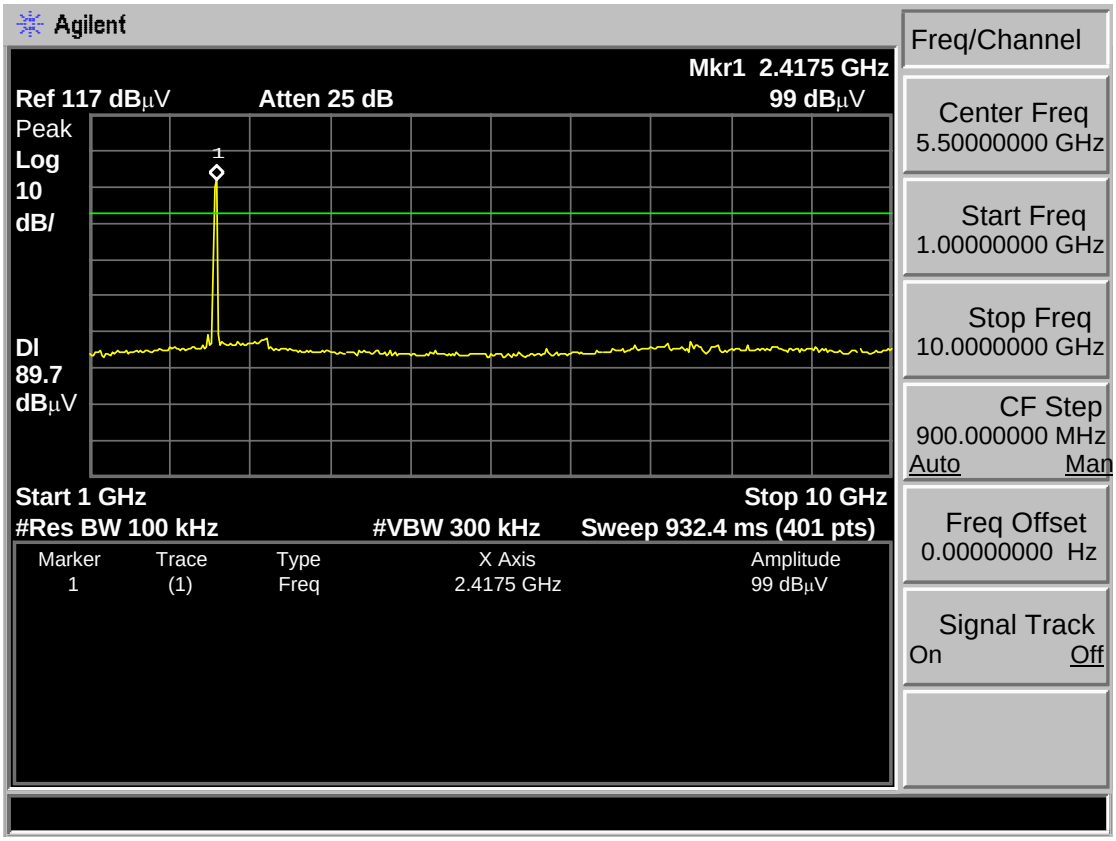

Agilent
Mkr1 13.400 GHz
Ref 117 dBµV
Atten 25 dB
54.91 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 10 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.036 s (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 13.400 GHz 54.91 dBµV
Freq/Channel
Center Freq
15.0000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.00000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

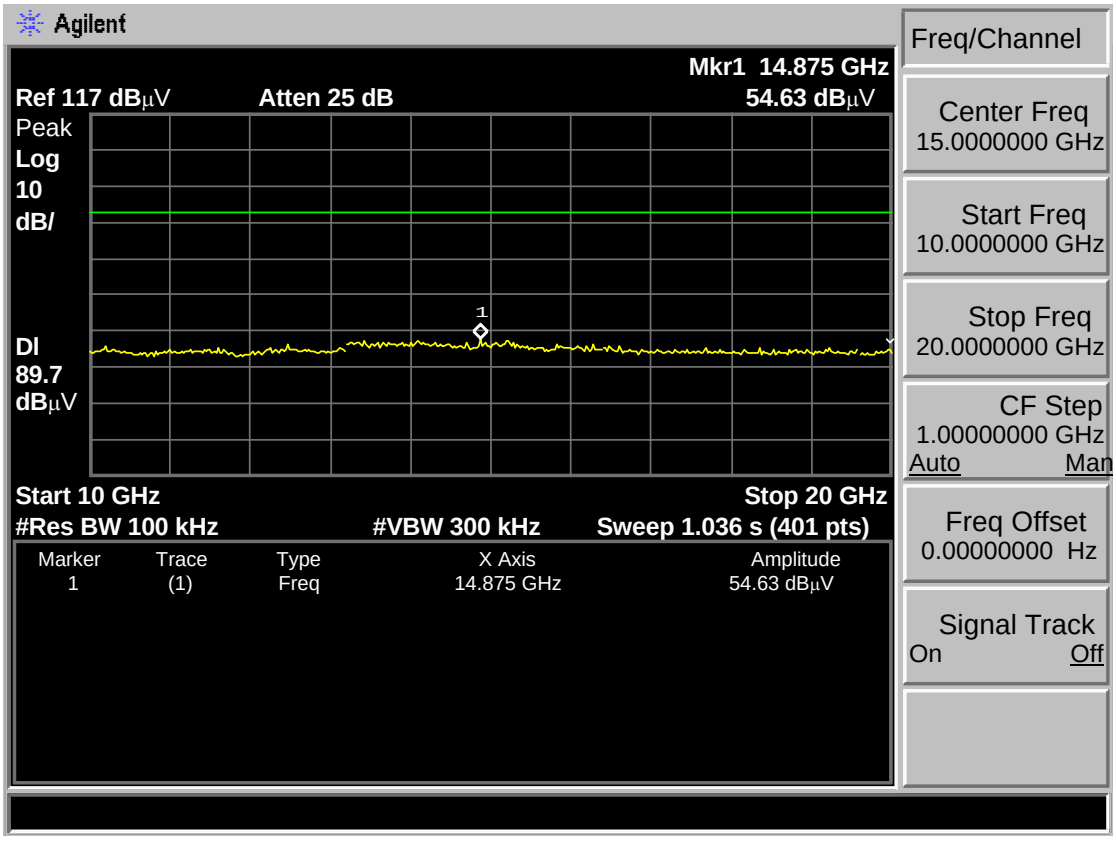

Agilent
Mkr1 24.9875 GHz
Ref 117 dBµV
Atten 25 dB
53.04 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.9875 GHz 53.04 dBµV
Freq/Channel
Center Freq
22.5000000 GHz
Start Freq
20.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
500.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

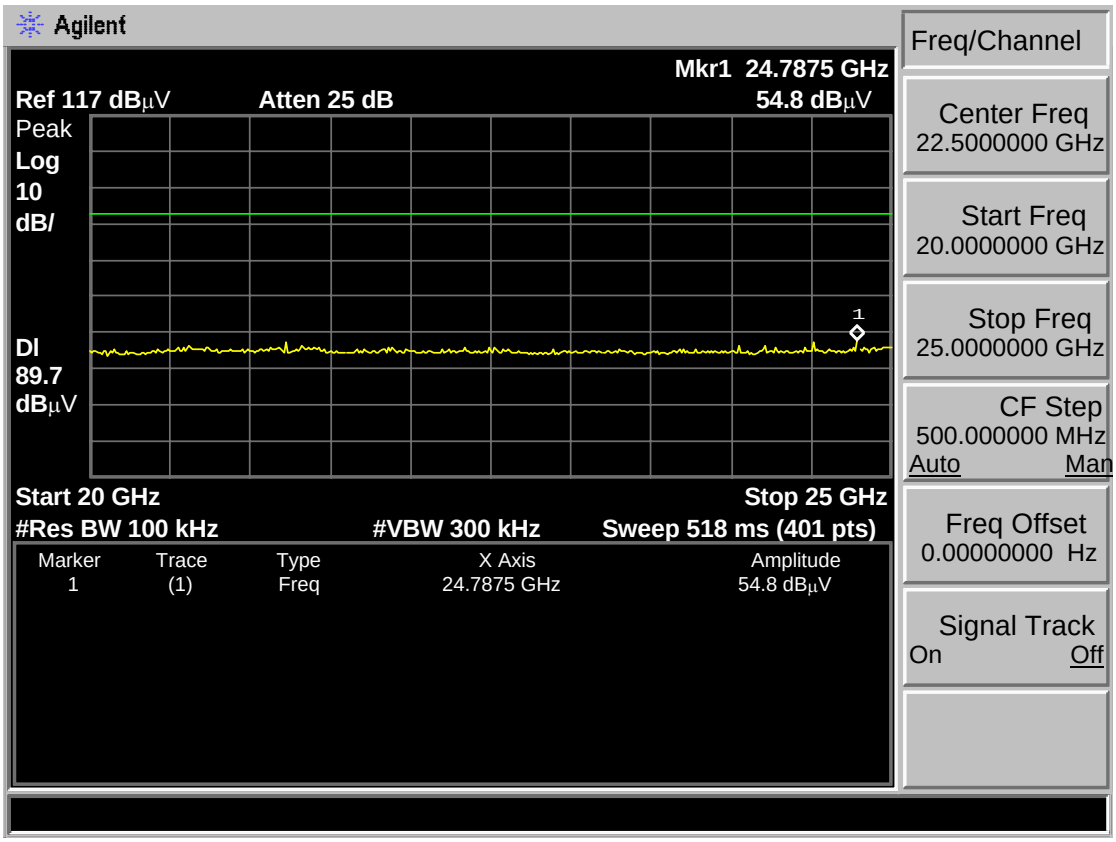

Agilent
Mkr1 182.8 MHz
Ref 117 dBµV
Atten 25 dB
58.22 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 182.8 MHz 58.22 dBµV
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

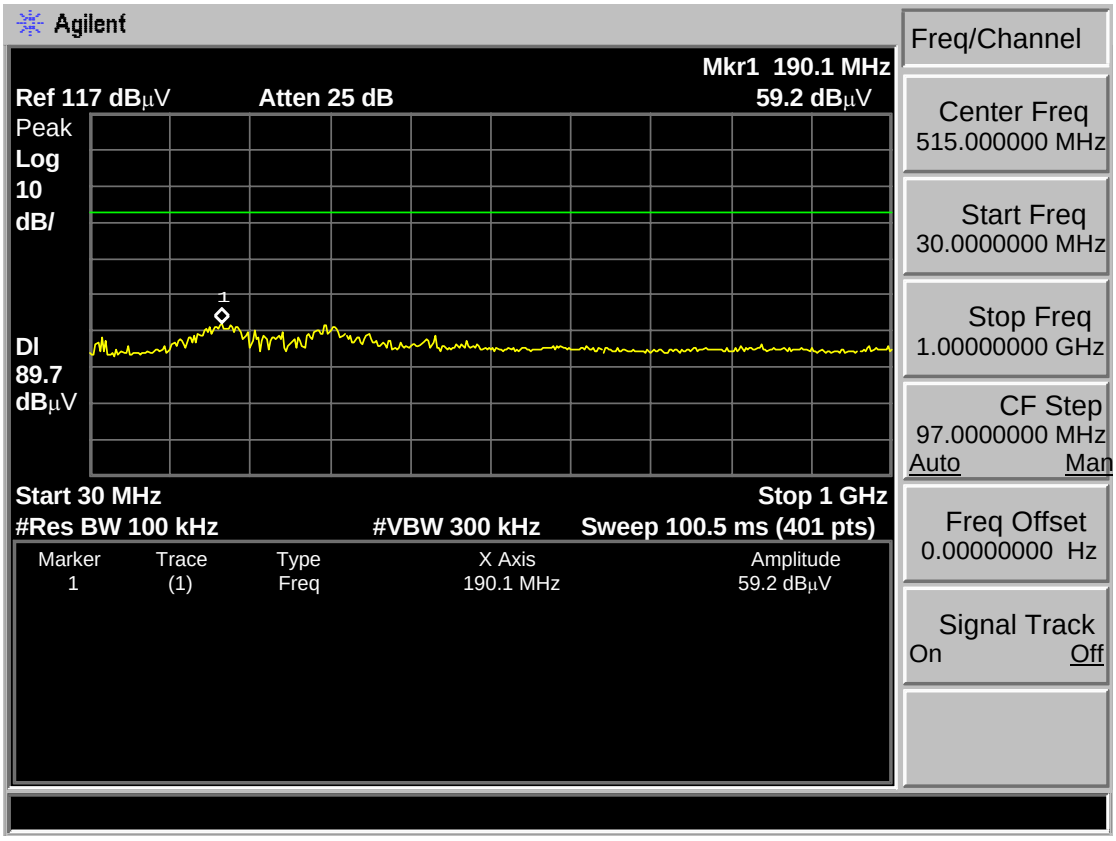
Test Mode: IEEE 802. 11g TX (Ant 2)
CH1



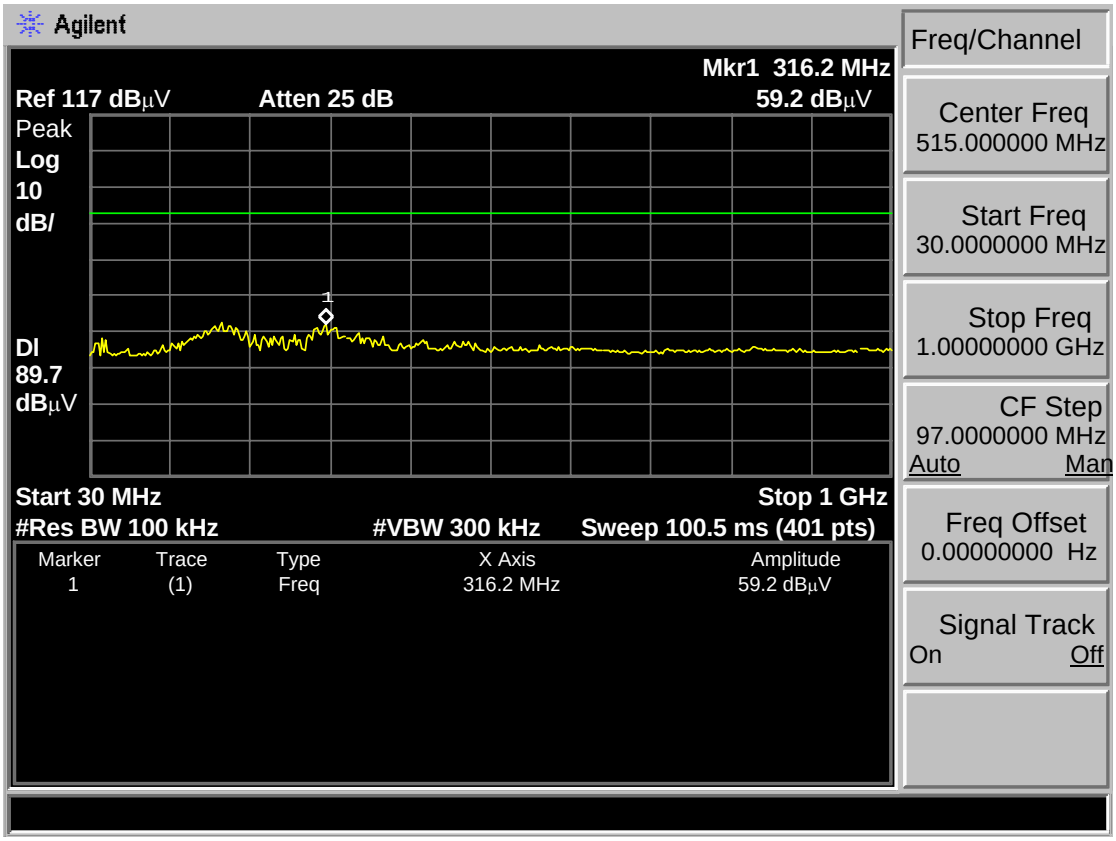


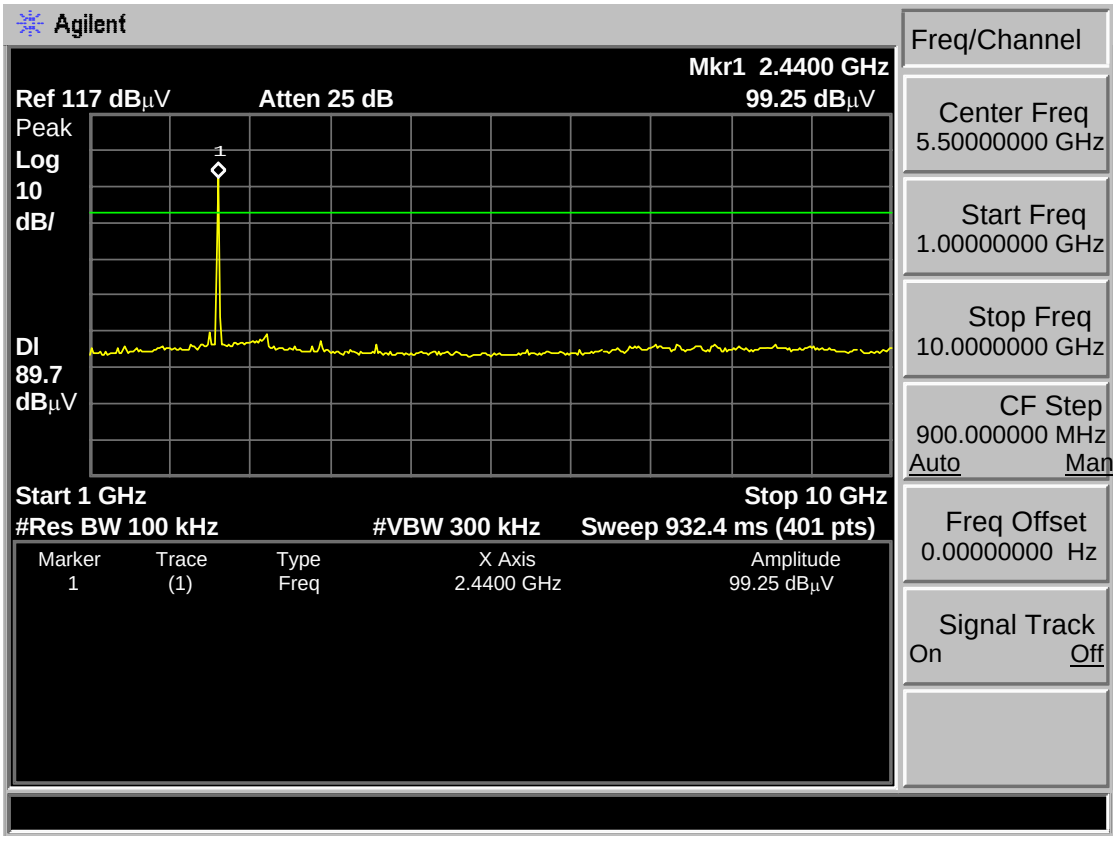

Agilent
Mkr1 14.875 GHz
Ref 117 dBµV
Atten 25 dB
54.63 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 20 GHz
Sweep 1.036 s (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 14.875 GHz 54.63 dBµV
Freq/Channel
Center Freq
15.0000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.00000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

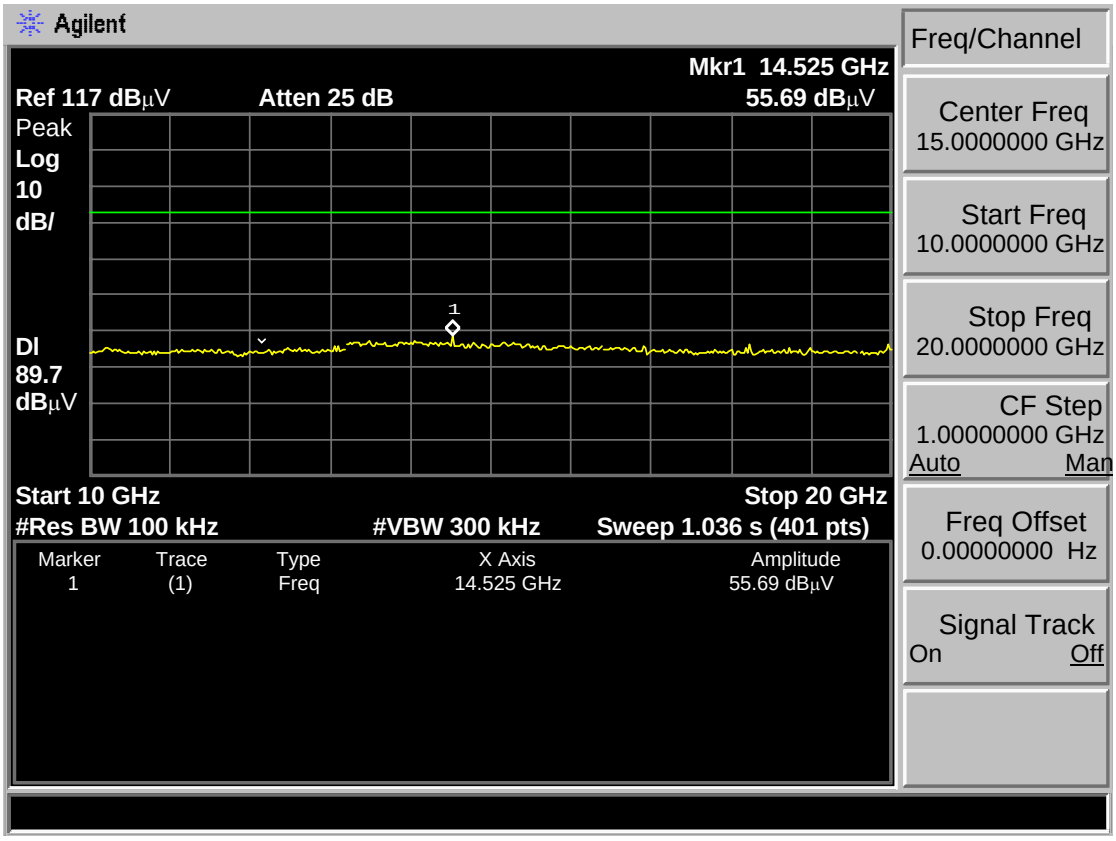

Agilent
Mkr1 24.7875 GHz
Ref 117 dBµV
Atten 25 dB
54.8 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 518 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 24.7875 GHz 54.8 dBµV
Freq/Channel
Center Freq
22.5000000 GHz
Start Freq
20.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
500.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

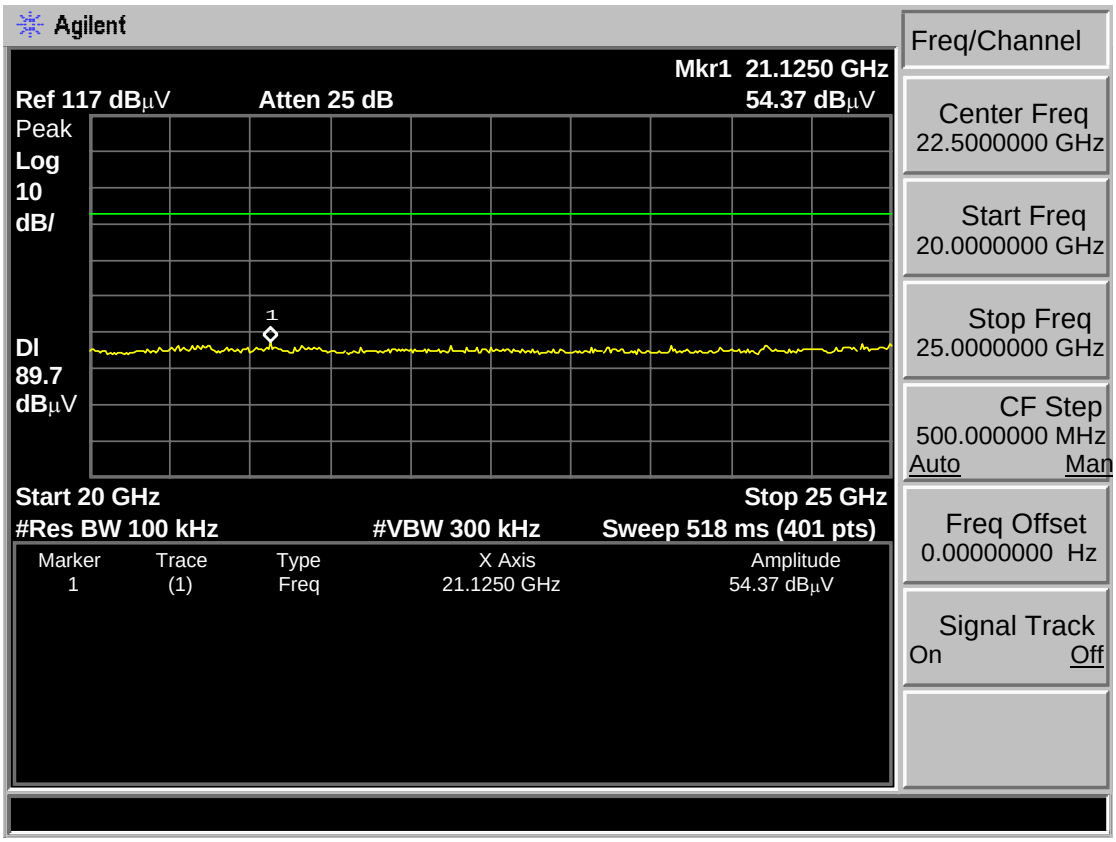

Agilent
Mkr1 190.1 MHz
Ref 117 dBµV
Atten 25 dB
59.2 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 190.1 MHz 59.2 dBµV
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

CH6

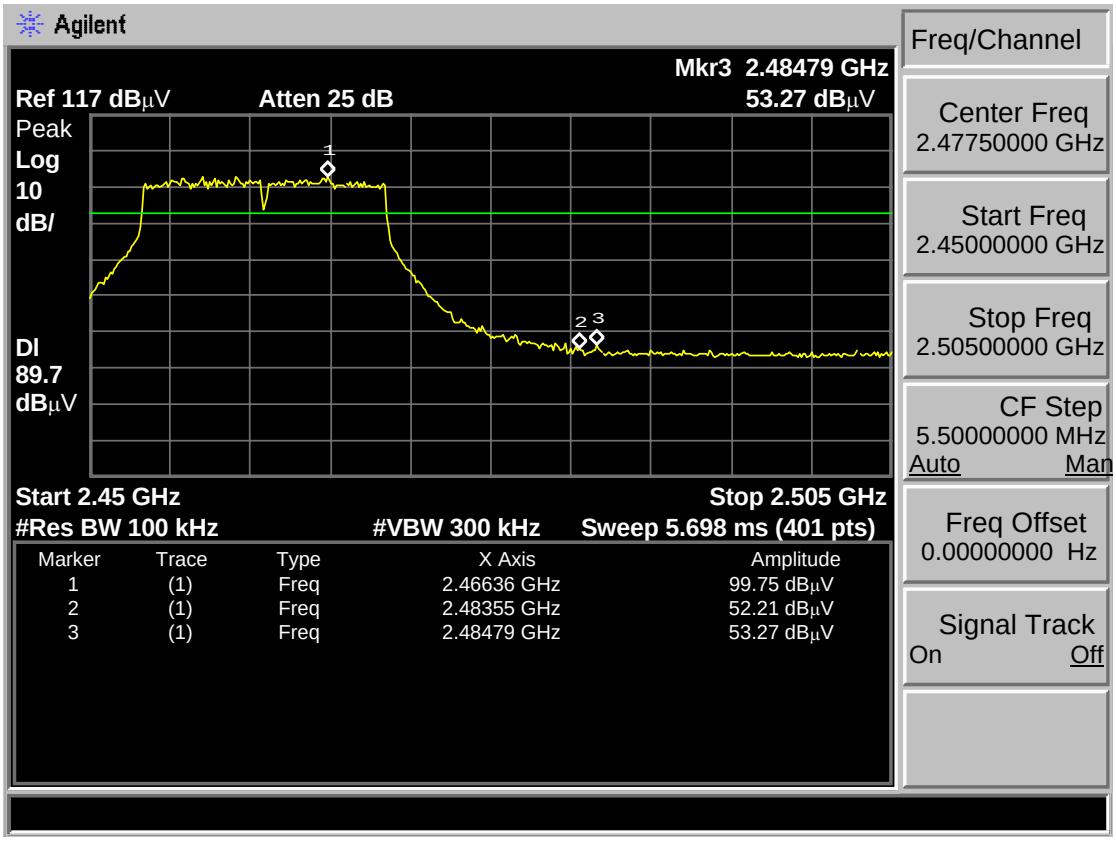

Agilent
Mkr1 316.2 MHz
Ref 117 dBµV
Atten 25 dB
59.2 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 316.2 MHz 59.2 dBµV
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

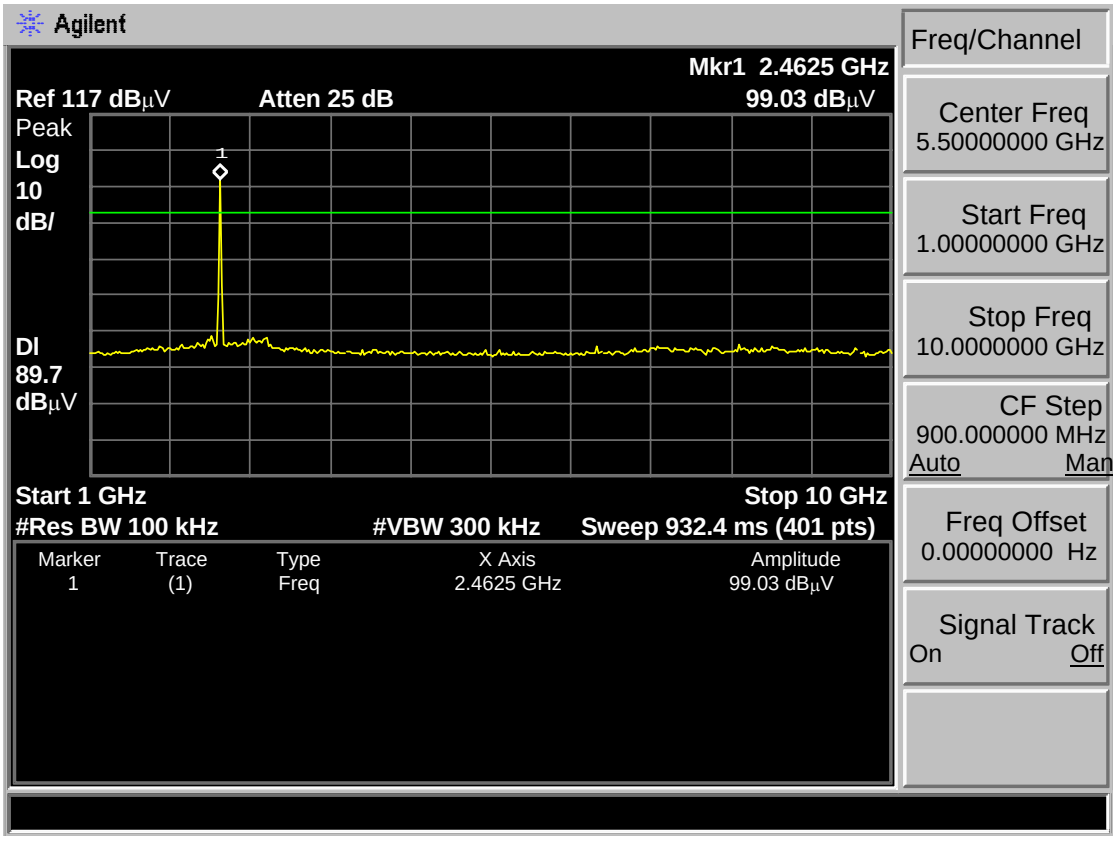

Agilent
Mkr1 2.4400 GHz
Ref 117 dBµV
Atten 25 dB
99.25 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 1 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10 GHz
Sweep 932.4 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.4400 GHz 99.25 dBµV
Freq/Channel
Center Freq
5.50000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
10.0000000 GHz
CF Step
900.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

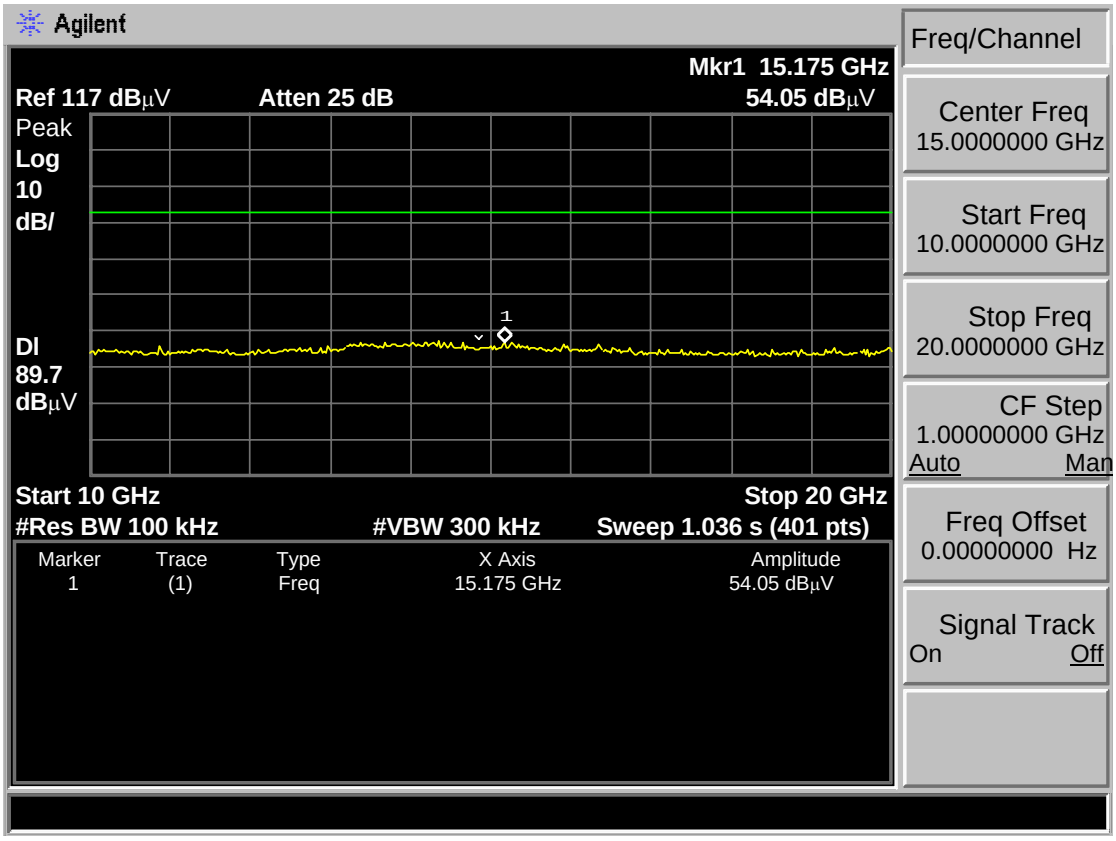

Agilent
Mkr1 14.525 GHz
Ref 117 dBµV
Atten 25 dB
55.69 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 10 GHz
Stop 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 1.036 s (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 14.525 GHz 55.69 dBµV
Freq/Channel
Center Freq
15.0000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.00000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

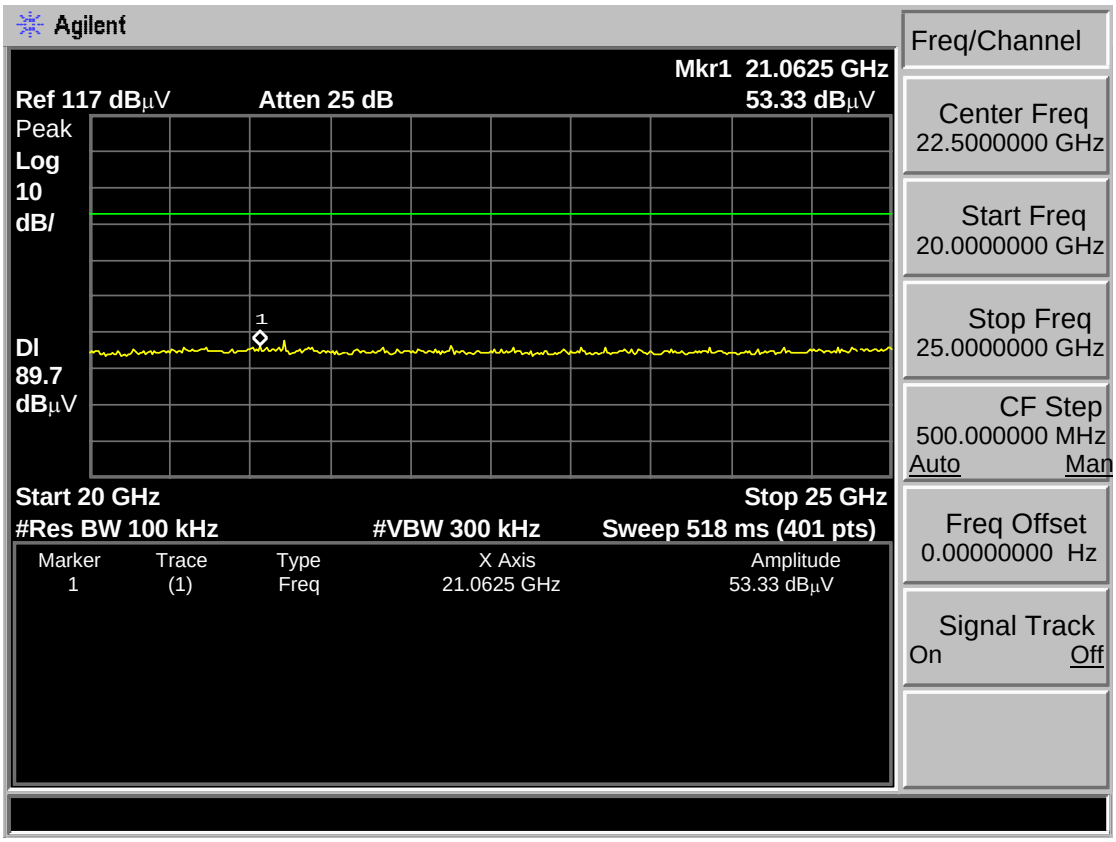

Agilent
Mkr1 21.1250 GHz
Ref 117 dBµV
Atten 25 dB
54.37 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 20 GHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 518 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 21.1250 GHz 54.37 dBµV
Freq/Channel
Center Freq
22.5000000 GHz
Start Freq
20.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
500.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

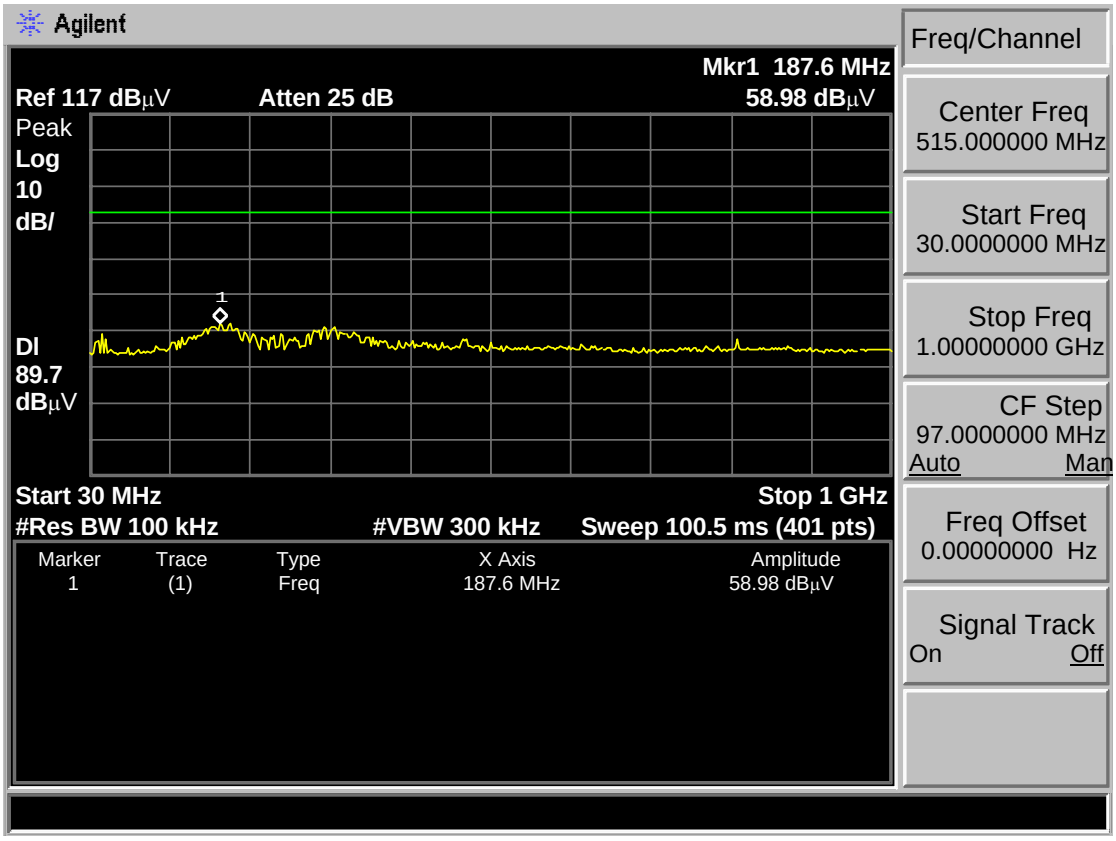
CH11


Agilent
Mkr3 2.48479 GHz
Ref 117 dBµV
Atten 25 dB
53.27 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 2.45 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.505 GHz
Sweep 5.698 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.46636 GHz 99.75 dBµV
2 (1) Freq 2.48355 GHz 52.21 dBµV
3 (1) Freq 2.48479 GHz 53.27 dBµV
Freq/Channel
Center Freq
2.47750000 GHz
Start Freq
2.45000000 GHz
Stop Freq
2.50500000 GHz
CF Step
5.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent
Mkr1 2.4625 GHz
Ref 117 dBµV
Atten 25 dB
99.03 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 1 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10 GHz
Sweep 932.4 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.4625 GHz 99.03 dBµV
Freq/Channel
Center Freq
5.50000000 GHz
Start Freq
1.00000000 GHz
Stop Freq
10.0000000 GHz
CF Step
900.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent
Mkr1 15.175 GHz
Ref 117 dBµV
Atten 25 dB
54.05 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 10 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 20 GHz
Sweep 1.036 s (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 15.175 GHz 54.05 dBµV
Freq/Channel
Center Freq
15.0000000 GHz
Start Freq
10.0000000 GHz
Stop Freq
20.0000000 GHz
CF Step
1.00000000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent
Mkr1 21.0625 GHz
Ref 117 dBµV
Atten 25 dB
53.33 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 20 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25 GHz
Sweep 518 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 21.0625 GHz 53.33 dBµV
Freq/Channel
Center Freq
22.5000000 GHz
Start Freq
20.0000000 GHz
Stop Freq
25.0000000 GHz
CF Step
500.000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off


Agilent
Mkr1 187.6 MHz
Ref 117 dBµV
Atten 25 dB
58.98 dBµV
Peak
Log
10
dB/
Dl
89.7
dBµV
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1 GHz
Sweep 100.5 ms (401 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 187.6 MHz 58.98 dBµV
Freq/Channel
Center Freq
515.000000 MHz
Start Freq
30.0000000 MHz
Stop Freq
1.00000000 GHz
CF Step
97.0000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

6. BAND EDGE COMPLIANCE TEST

6.1. 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

6.2. Test Procedure

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:

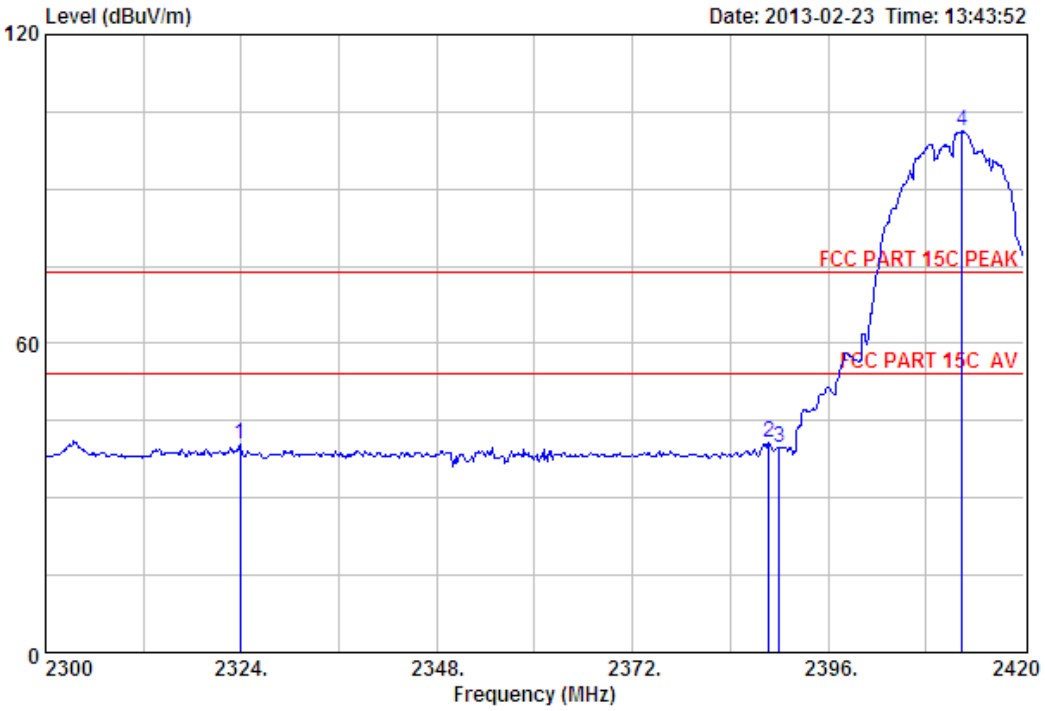
(a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
(b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.3. Test Result

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

Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2、The frequency 2412MHz 、2437MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

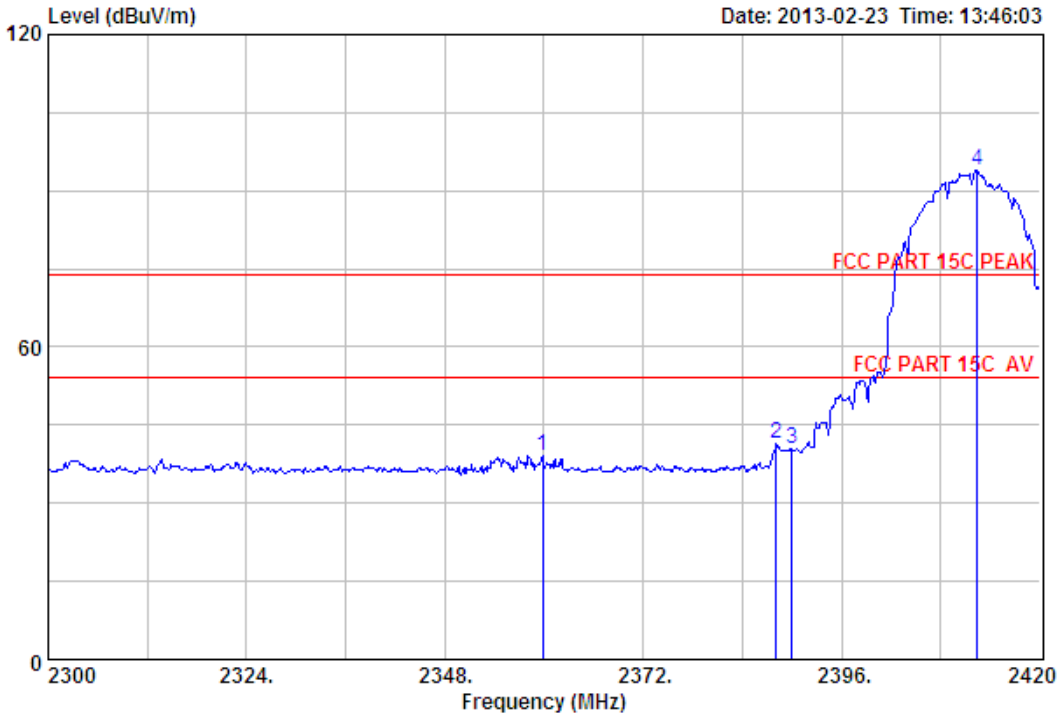
6.4. Test Data



Site no. : 3m Chamber Data no. : 101
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11b CH1 2412TX(ANT 1)

	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	2323.88	27.73	6.54	34.23	40.31	40.35	74.00	33.65	Peak
2	2388.68	27.64	6.62	34.19	40.60	40.67	74.00	33.33	Peak
3	2390.00	27.64	6.62	34.19	39.60	39.67	74.00	34.33	Peak
4	2412.44	27.60	6.64	34.15	101.22	101.31	74.00	-27.31	Peak

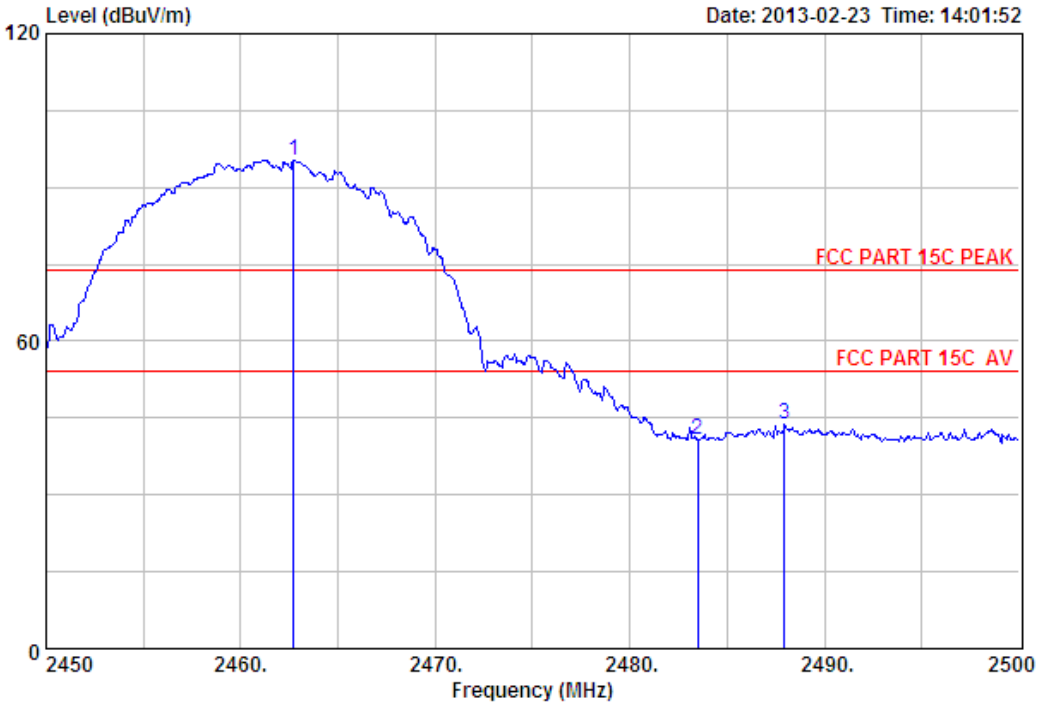
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 102
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11b CH1 2412TX(ANT 1)

	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	2359.88	27.67	6.58	34.20	39.02	39.07	74.00	34.93	Peak
2	2388.08	27.64	6.62	34.19	41.25	41.32	74.00	32.68	Peak
3	2390.00	27.64	6.62	34.19	40.30	40.37	74.00	33.63	Peak
4	2412.44	27.60	6.64	34.15	93.83	93.92	74.00	-19.92	Peak

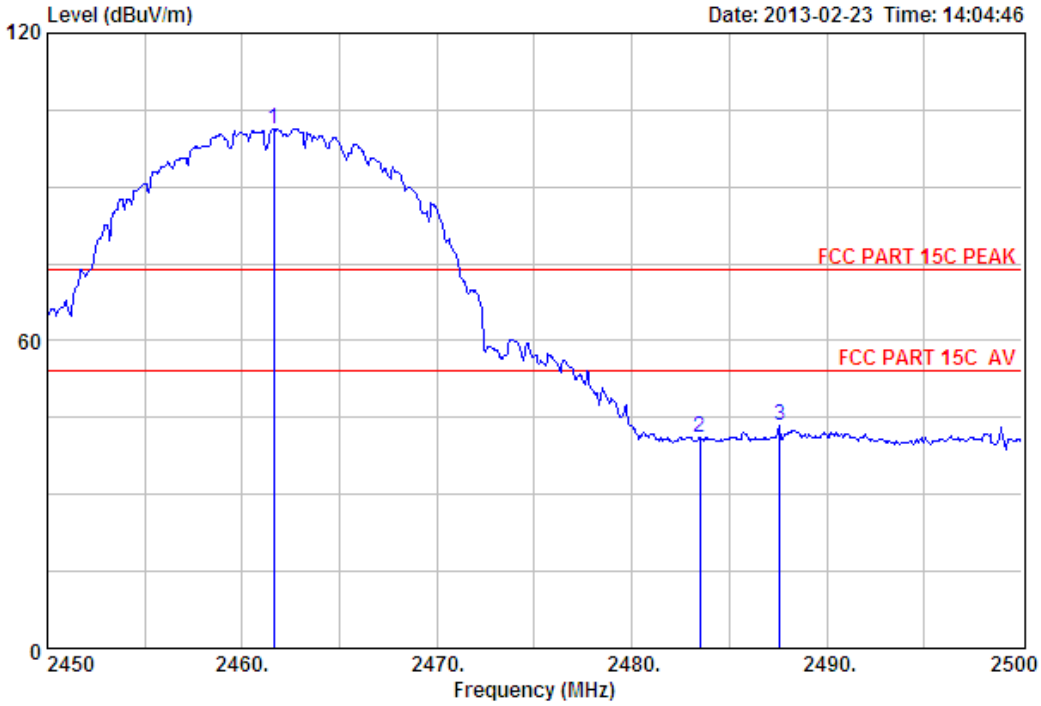
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 107
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11b CH11 2462TX(ANT 1)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.70	27.58	6.69	34.06	95.20	95.41	74.00	-21.41	Peak
2	2483.50	27.58	6.71	34.03	40.48	40.74	74.00	33.26	Peak
3	2487.95	27.58	6.73	34.03	43.44	43.72	74.00	30.28	Peak

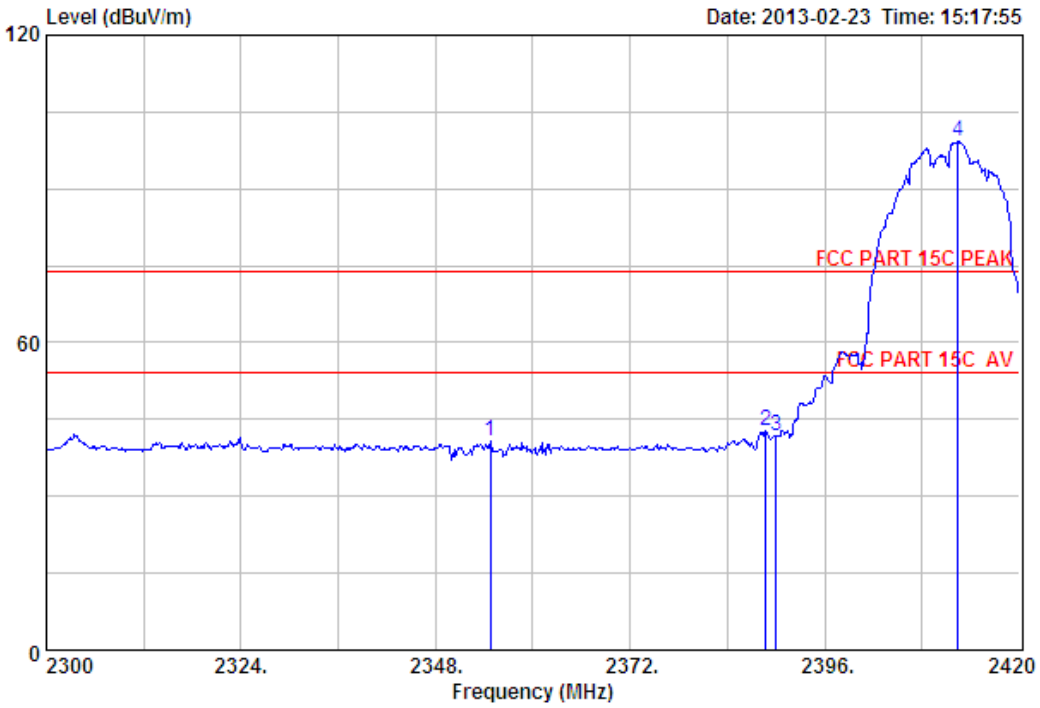
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.      : 3m Chamber                  Data no. : 108
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : VERTICAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Audio Amplifier
Power         : AC 120V/60Hz
M/N           : airstream A100
Test Mode     : IEEE 802.11b CH11 2462TX(ANT 1)
```

	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	2461.60	27.58	6.69	34.06	101.15	101.36	74.00	-27.36	Peak
2	2483.50	27.58	6.71	34.03	40.77	41.03	74.00	32.97	Peak
3	2487.60	27.58	6.73	34.03	43.28	43.56	74.00	30.44	Peak

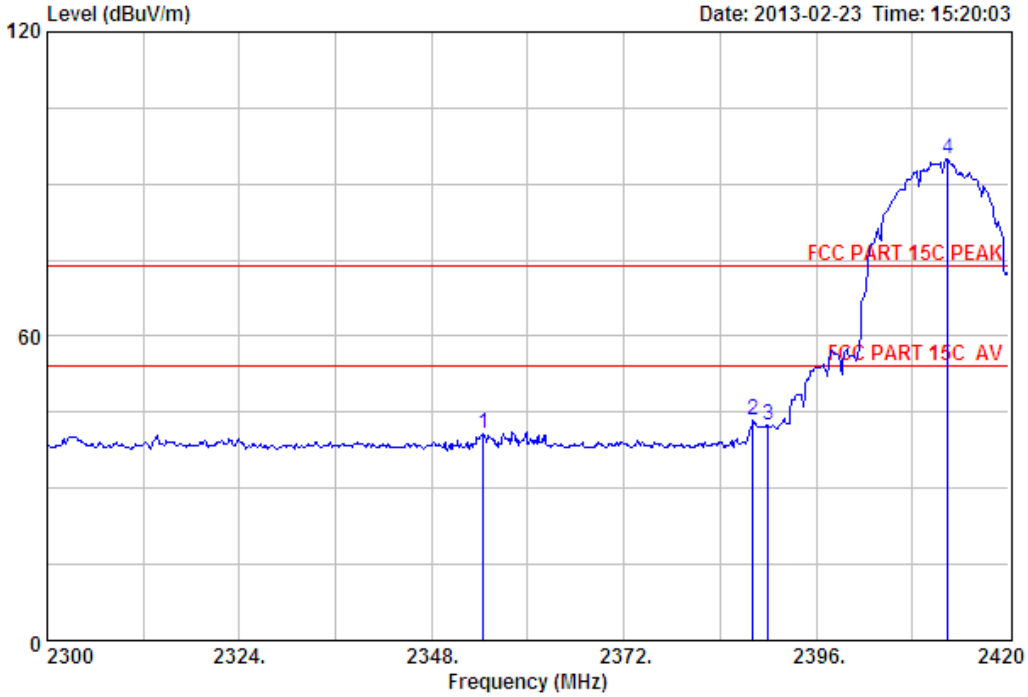
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 133
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11b CH1 2412TX(ANT 2)

	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	2354.72	27.70	6.58	34.22	40.64	40.70	74.00	33.30	Peak
2	2388.68	27.64	6.62	34.19	42.60	42.67	74.00	31.33	Peak
3	2390.00	27.64	6.62	34.19	41.60	41.67	74.00	32.33	Peak
4	2412.44	27.60	6.64	34.15	99.22	99.31	74.00	-25.31	Peak

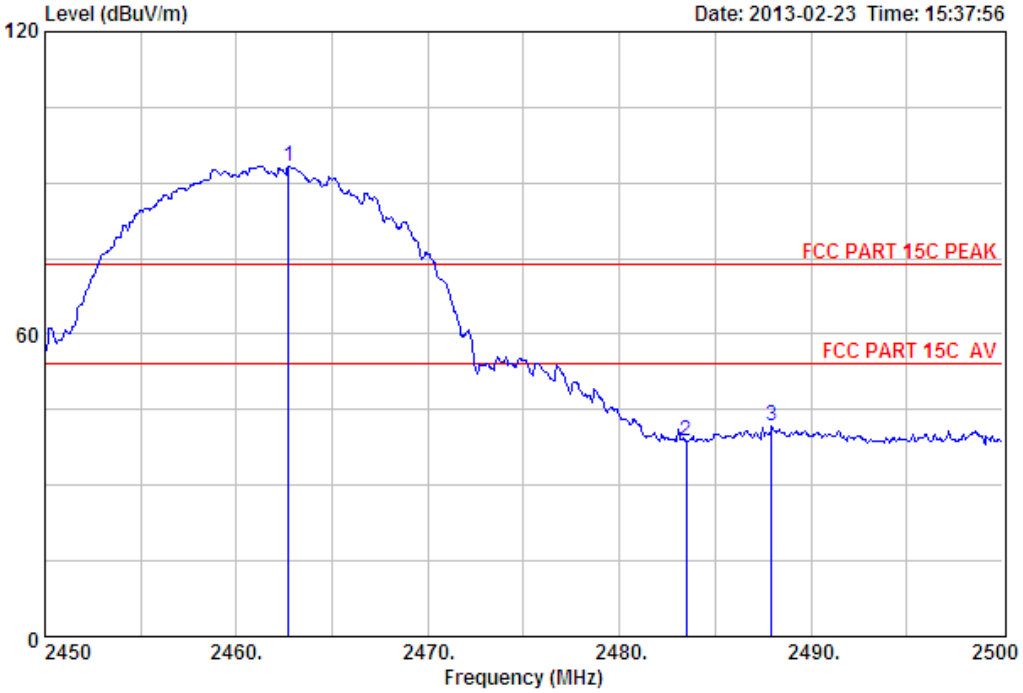
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 134
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11b CH1 2412TX(ANT 2)

	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	2354.48	27.70	6.58	34.22	40.56	40.62	74.00	33.38	Peak
2	2388.08	27.64	6.62	34.19	43.25	43.32	74.00	30.68	Peak
3	2390.00	27.64	6.62	34.19	42.30	42.37	74.00	31.63	Peak
4	2412.44	27.60	6.64	34.15	94.83	94.92	74.00	-20.92	Peak

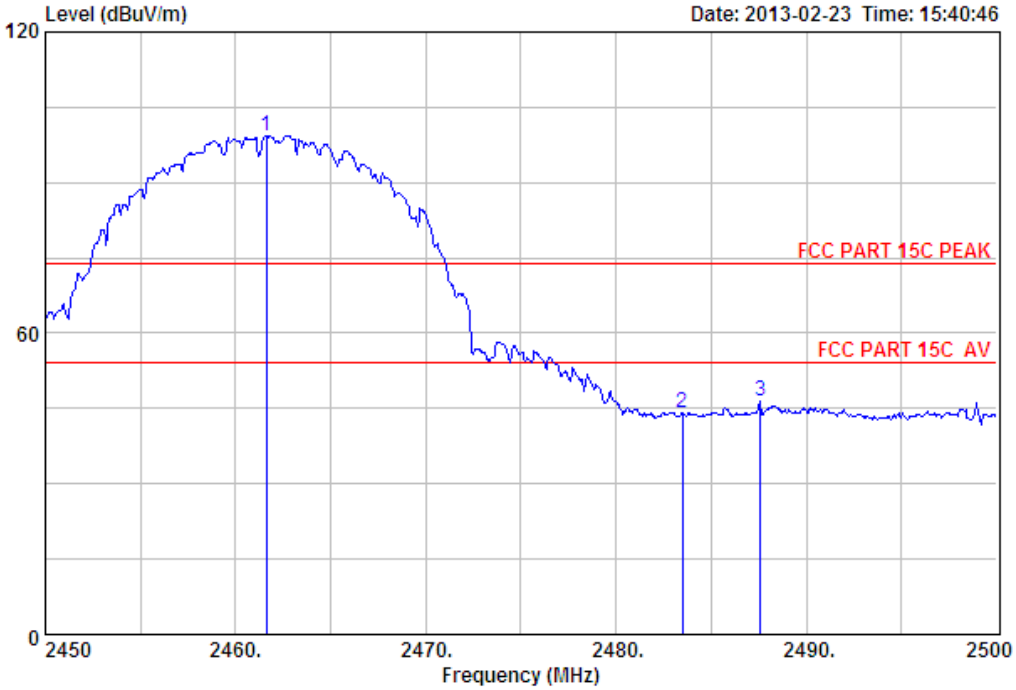
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.




```
Site no.      : 3m Chamber                  Data no. : 139
Dis. / Ant.   : 3m   ANT 1-18G              Ant. pol. : HORIZONTAL
Limit         : FCC PART 15C PEAK
Env. / Ins.   : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer      : Tony
EUT           : Audio Amplifier
Power         : AC 120V/60Hz
M/N           : airstream A100
Test Mode     : IEEE 802.11b CH11 2462TX(ANT 2)
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.70	27.58	6.69	34.06	93.20	93.41	74.00	-19.41	Peak
2	2483.50	27.58	6.71	34.03	38.48	38.74	74.00	35.26	Peak
3	2487.95	27.58	6.73	34.03	41.44	41.72	74.00	32.28	Peak

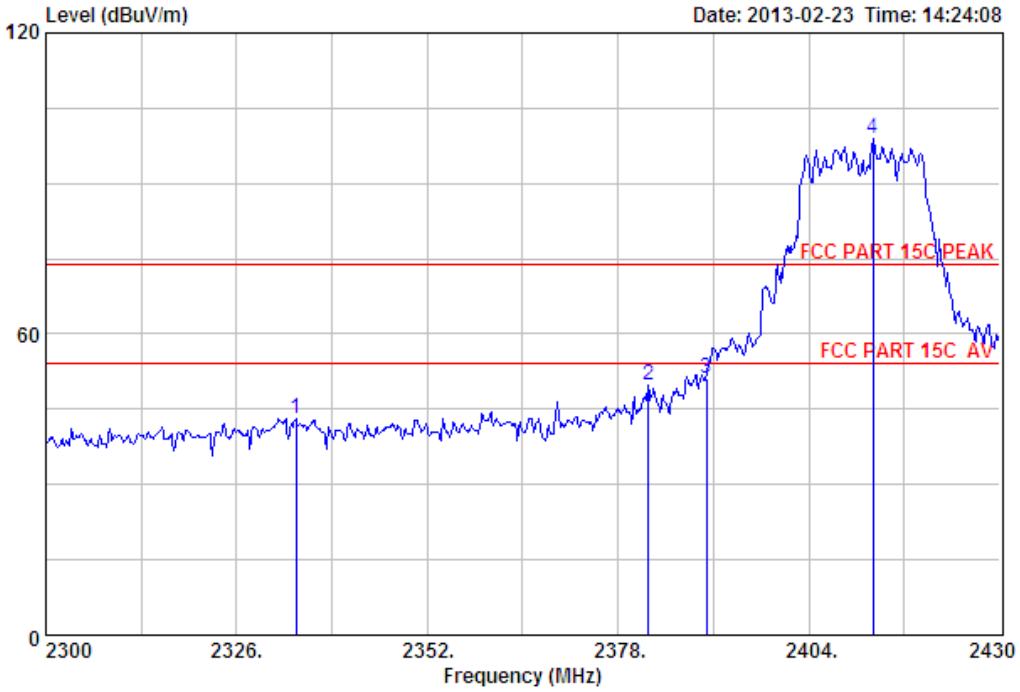
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 140
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11b CH11 2462TX(ANT 2)

	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	2461.60	27.58	6.69	34.06	99.15	99.36	74.00	-25.36	Peak
2	2483.50	27.58	6.71	34.03	43.77	44.03	74.00	29.97	Peak
3	2487.60	27.58	6.73	34.03	46.28	46.56	74.00	27.44	Peak

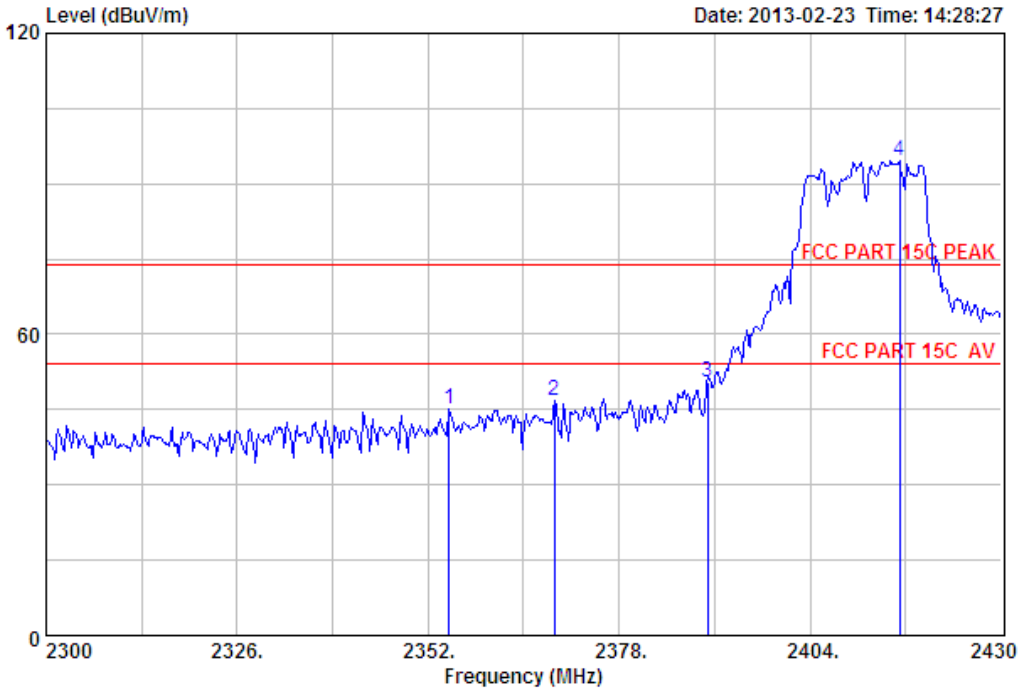
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 117
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11g CH1 2412TX(ANT 1)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2334.06	27.73	6.54	34.23	43.21	43.25	74.00	30.75	Peak
2	2382.16	27.64	6.60	34.19	49.72	49.77	74.00	24.23	Peak
3	2390.00	27.64	6.62	34.19	51.04	51.11	74.00	22.89	Peak
4	2412.71	27.60	6.64	34.15	98.94	99.03	74.00	-25.03	Peak

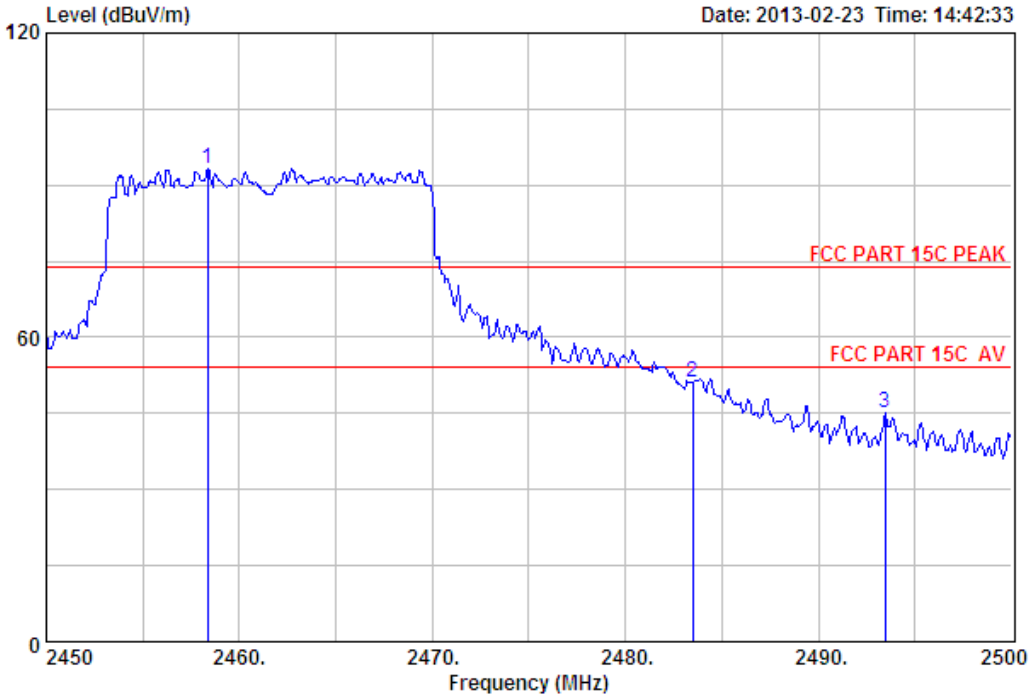
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 118
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11g CH1 2412TX(ANT 1)

	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	2354.86	27.70	6.58	34.22	45.04	45.10	74.00	28.90	Peak
2	2369.16	27.67	6.60	34.20	46.71	46.78	74.00	27.22	Peak
3	2390.00	27.64	6.62	34.19	50.34	50.41	74.00	23.59	Peak
4	2416.22	27.60	6.64	34.15	94.52	94.61	74.00	-20.61	Peak

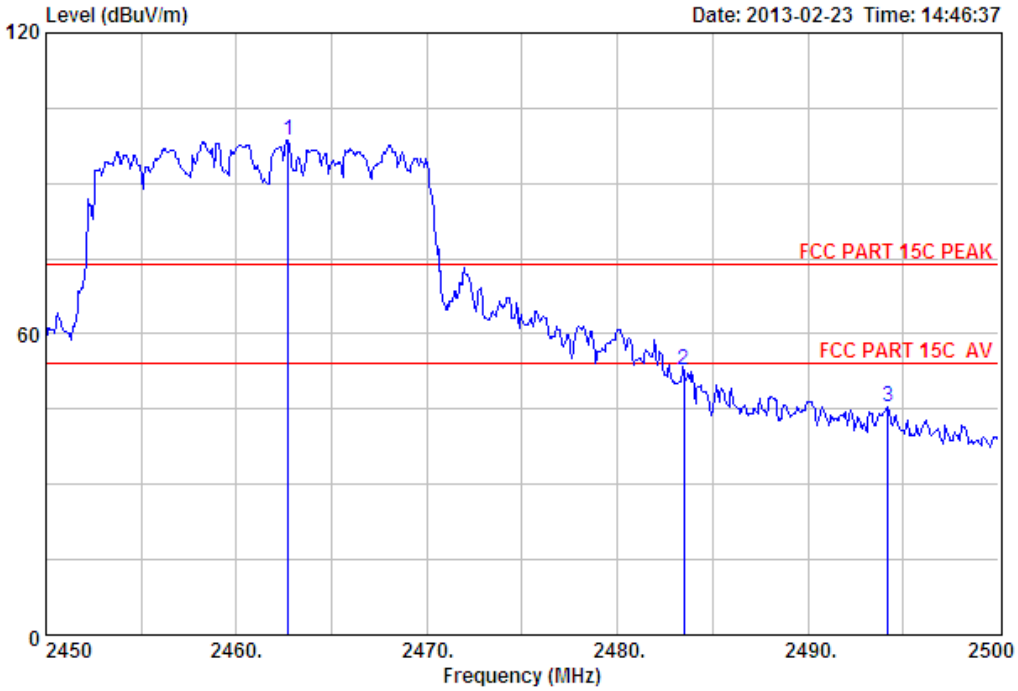
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 123
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11g CH11 2462TX(ANT 1)

	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	2458.35	27.59	6.69	34.09	93.21	93.40	74.00	-19.40	Peak
2	2483.50	27.58	6.71	34.03	51.02	51.28	74.00	22.72	Peak
3	2493.45	27.58	6.73	34.03	45.01	45.29	74.00	28.71	Peak

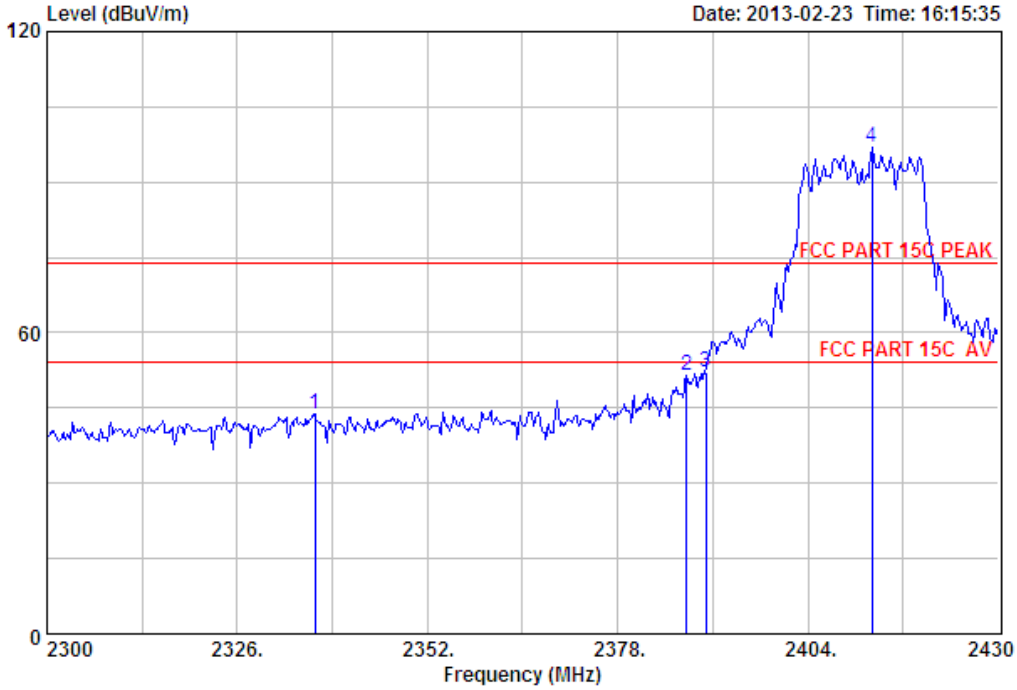
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 124
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11g CH11 2462TX(ANT 1)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.70	27.58	6.69	34.06	98.42	98.63	74.00	-24.63	Peak
2	2483.50	27.58	6.71	34.03	52.40	52.66	74.00	21.34	Peak
3	2494.20	27.58	6.73	34.03	45.11	45.39	74.00	28.61	Peak

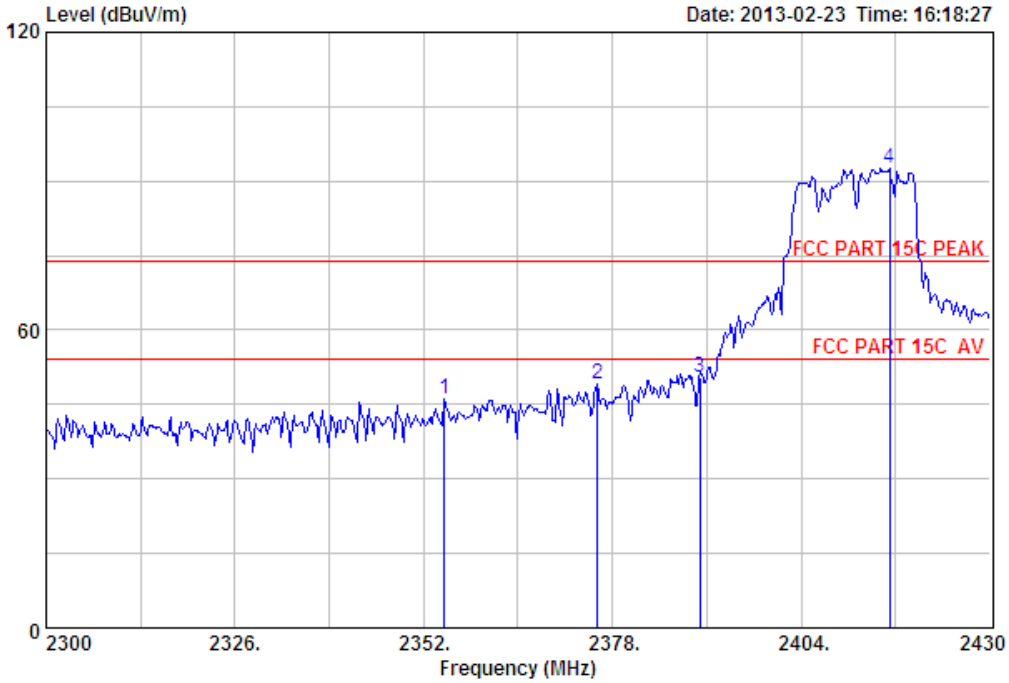
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 149
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11g CH1 2412TX(ANT 2)

	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	2336.66	27.73	6.56	34.23	43.76	43.82	74.00	30.18	Peak
2	2387.36	27.64	6.62	34.19	51.55	51.62	74.00	22.38	Peak
3	2390.00	27.64	6.62	34.19	52.04	52.11	74.00	21.89	Peak
4	2412.71	27.60	6.64	34.15	96.94	97.03	74.00	-23.03	Peak

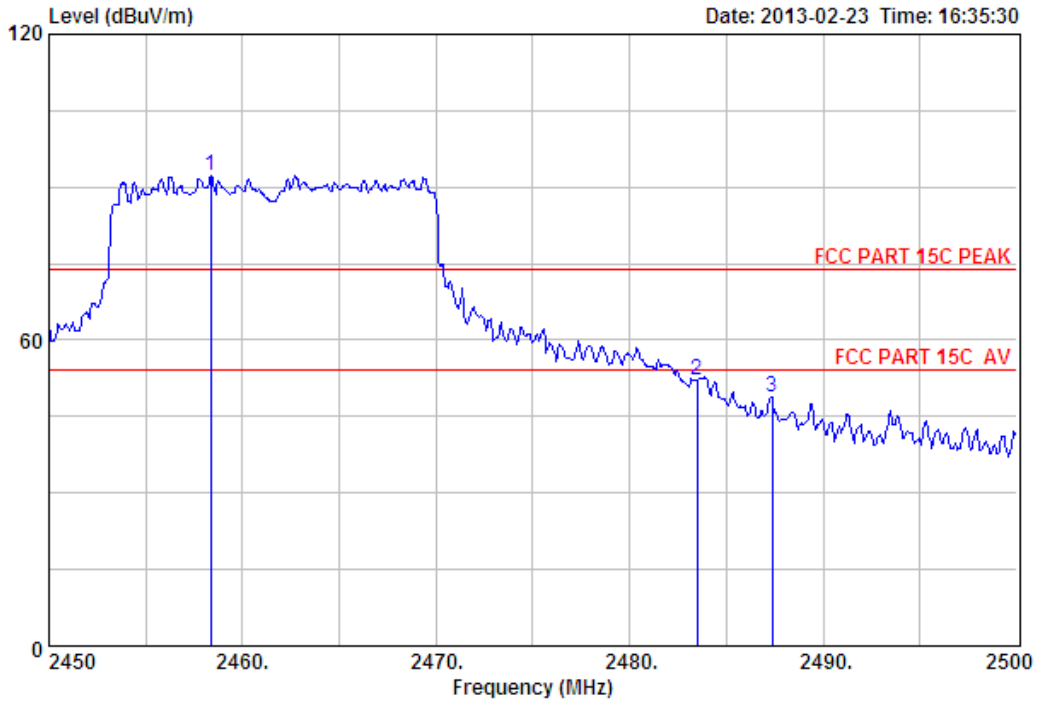
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 150
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11g CH1 2412TX(ANT 2)

	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	2354.86	27.70	6.58	34.22	46.04	46.10	74.00	27.90	Peak
2	2375.92	27.64	6.60	34.19	48.95	49.00	74.00	25.00	Peak
3	2390.00	27.64	6.62	34.19	50.34	50.41	74.00	23.59	Peak
4	2416.22	27.60	6.64	34.15	92.52	92.61	74.00	-18.61	Peak

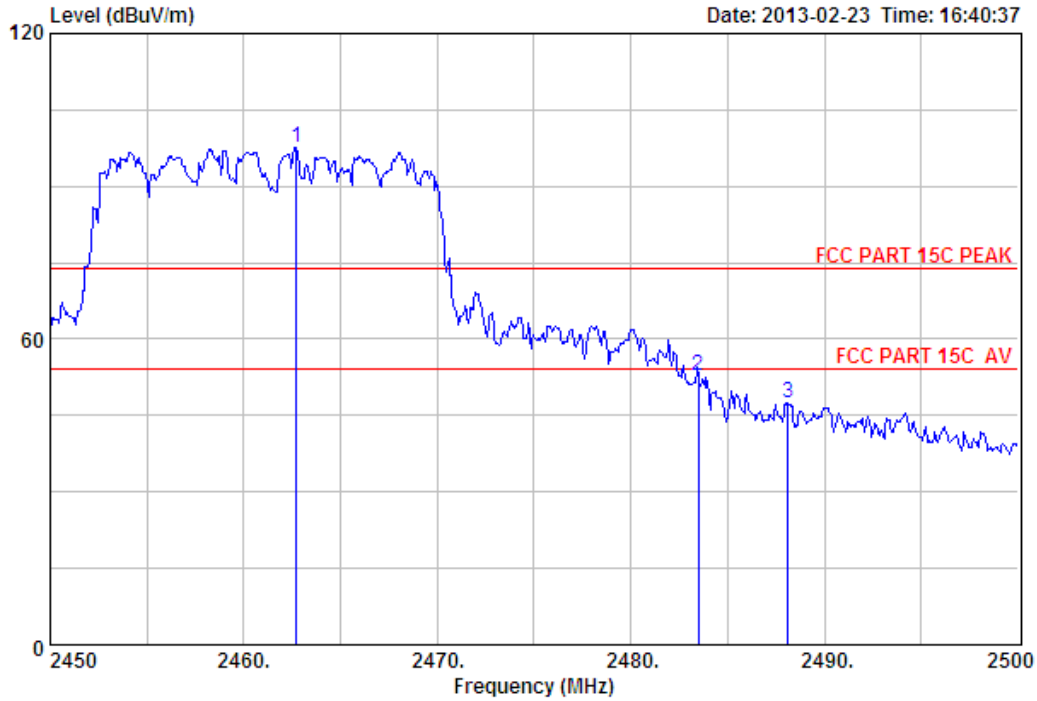
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 155
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11g CH11 2462TX(ANT 2)

	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	2458.35	27.59	6.69	34.09	92.21	92.40	74.00	-18.40	Peak
2	2483.50	27.58	6.71	34.03	52.02	52.28	74.00	21.72	Peak
3	2487.35	27.58	6.71	34.03	48.70	48.96	74.00	25.04	Peak

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



Site no. : 3m Chamber Data no. : 156
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:25.6';Humi:56%;Press:101.52kPa
Engineer : Tony
EUT : Audio Amplifier
Power : AC 120V/60Hz
M/N : airstream A100
Test Mode : IEEE 802.11g CH11 2462TX(ANT 2)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.70	27.58	6.69	34.06	97.42	97.63	74.00	-23.63	Peak
2	2483.50	27.58	6.71	34.03	52.40	52.66	74.00	21.34	Peak
3	2488.10	27.58	6.73	34.03	47.03	47.31	74.00	26.69	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.

7. 6dB Bandwidth Test

7.1. Limit

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

7.2. Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device.
2, Follow the test procedure as described in KDB 558074
(1). Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
(2). Set the video bandwidth (VBW) ≥ 3 x RBW.
(3). Detector = Peak.
(4). Trace mode = max hold.
(5). Sweep = auto couple.
(6). Allow the trace to stabilize.
(7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

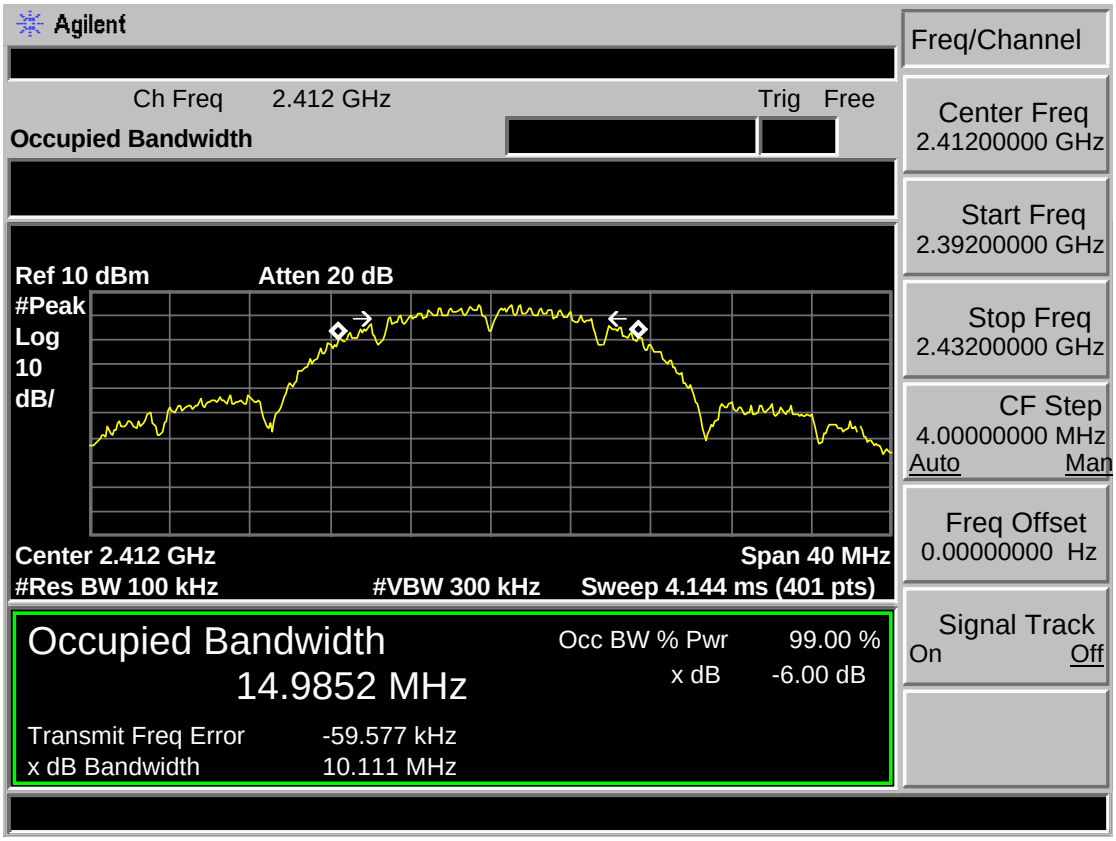
7.3. Test Result

EUT: Audio Amplifier			
M/N: airstream A100			
Test date: Feb.23, 2013		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	6dB bandwidth（MHz）	Limit (KHz)
11b (Ant 1)	CH1	10.111	>500
	CH6	10.129	>500
	CH11	10.064	>500
11g (Ant 1)	CH1	16.623	>500
	CH6	16.620	>500
	CH11	16.625	>500
11b (Ant 2)	CH1	10.139	>500
	CH6	10.079	>500
	CH11	10.146	>500
11g (Ant 2)	CH1	16.630	>500
	CH6	16.619	>500
	CH11	16.608	>500
Conclusion：PASS			

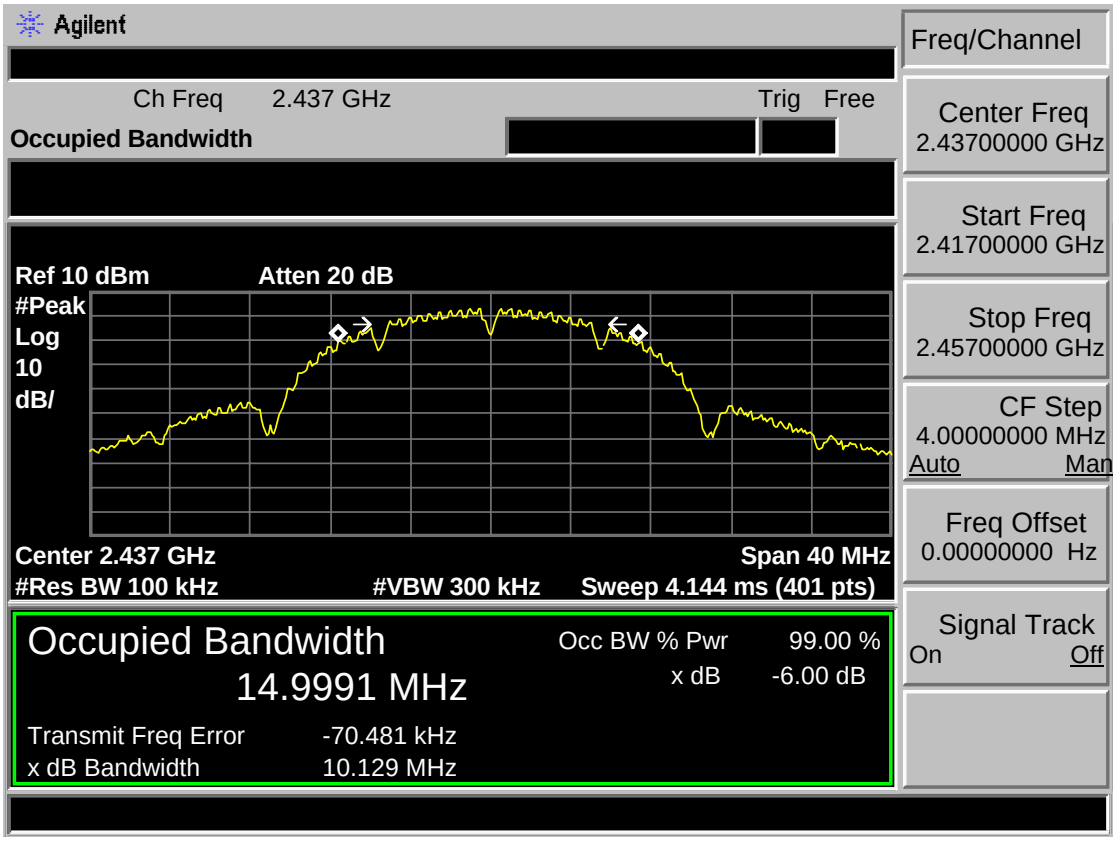
7.4. Test Data

Test Mode: IEEE 802.11b TX (Ant 1)

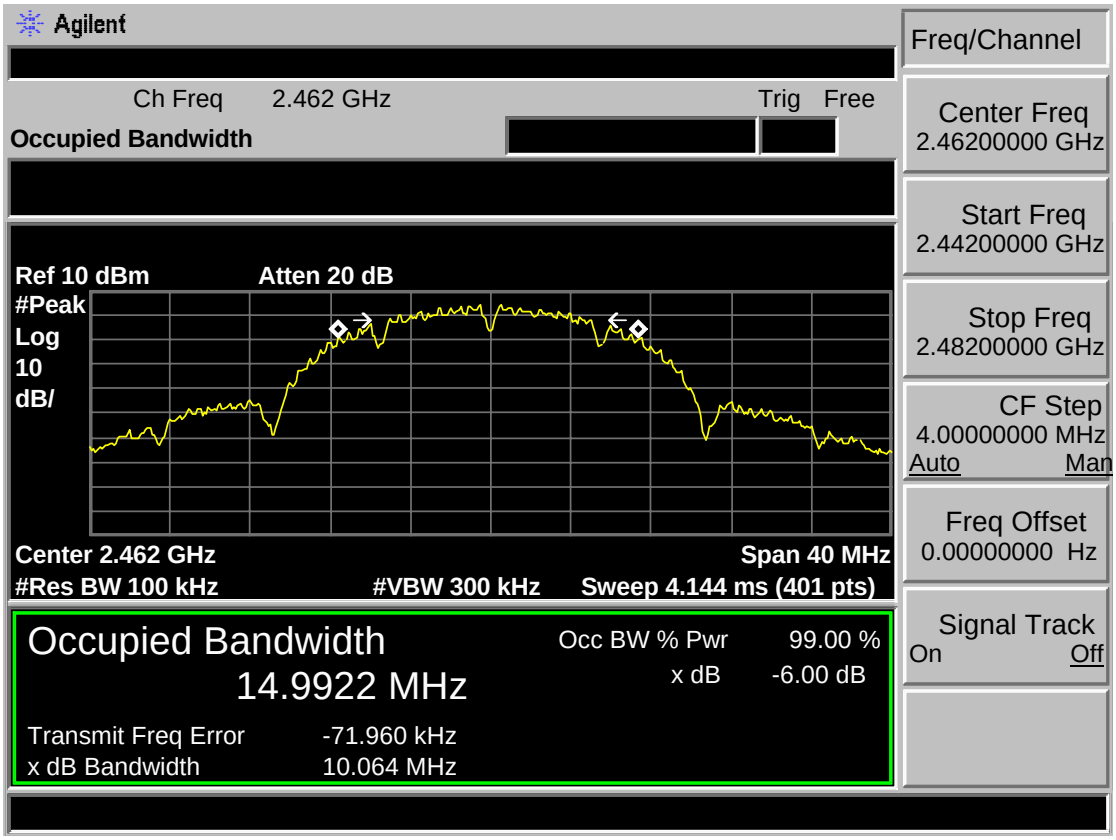
Test CH1: 2412MHz



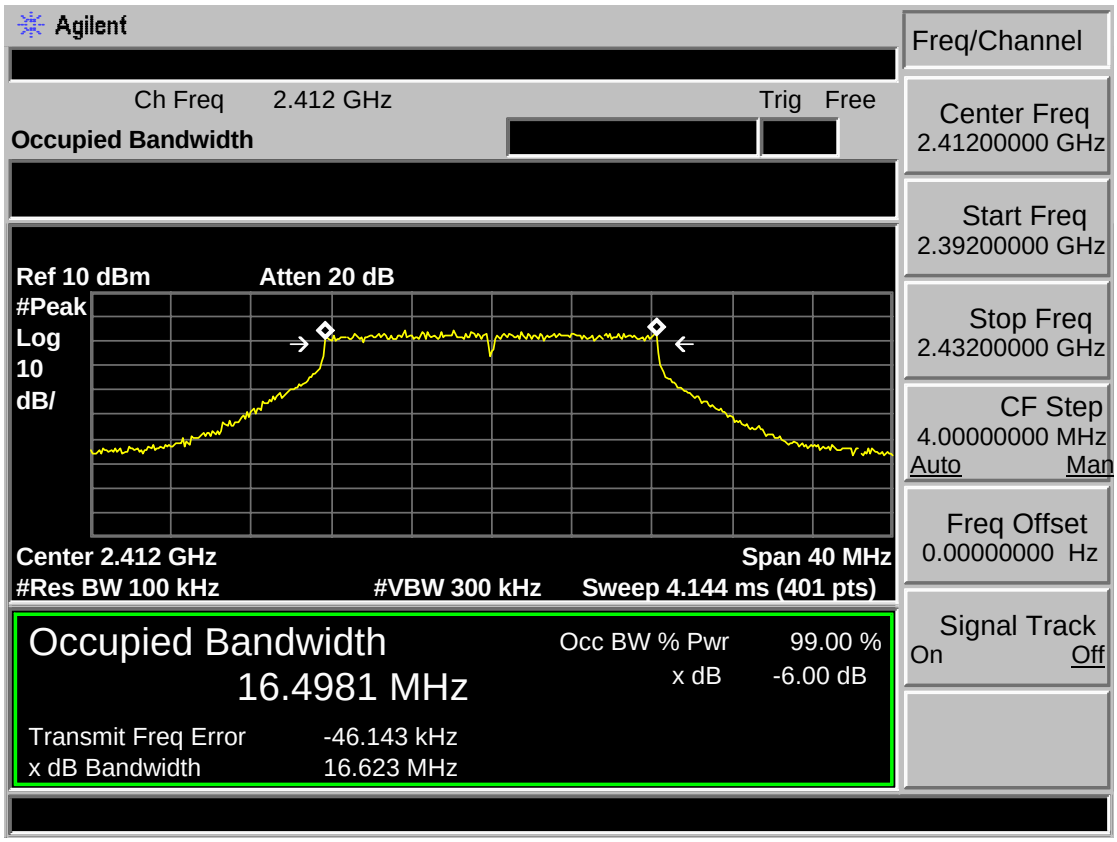
Test CH6: 2437MHz



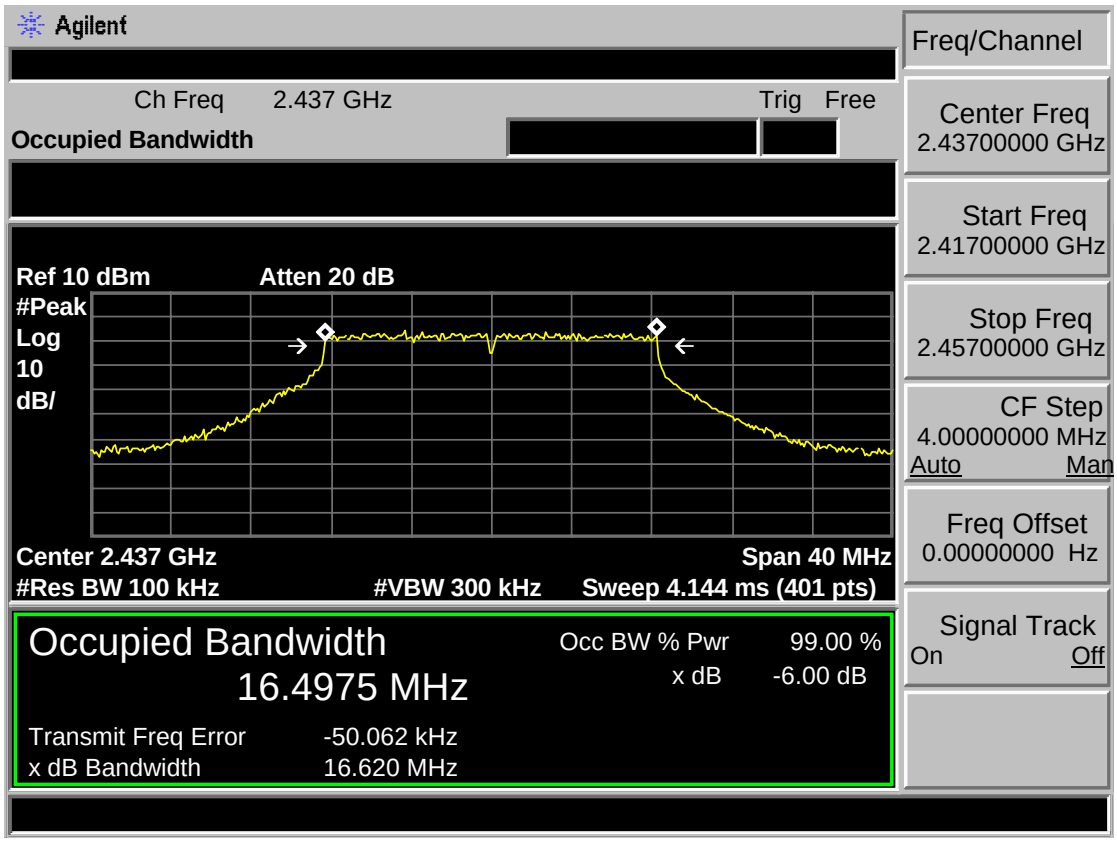
Test CH11: 2462MHz



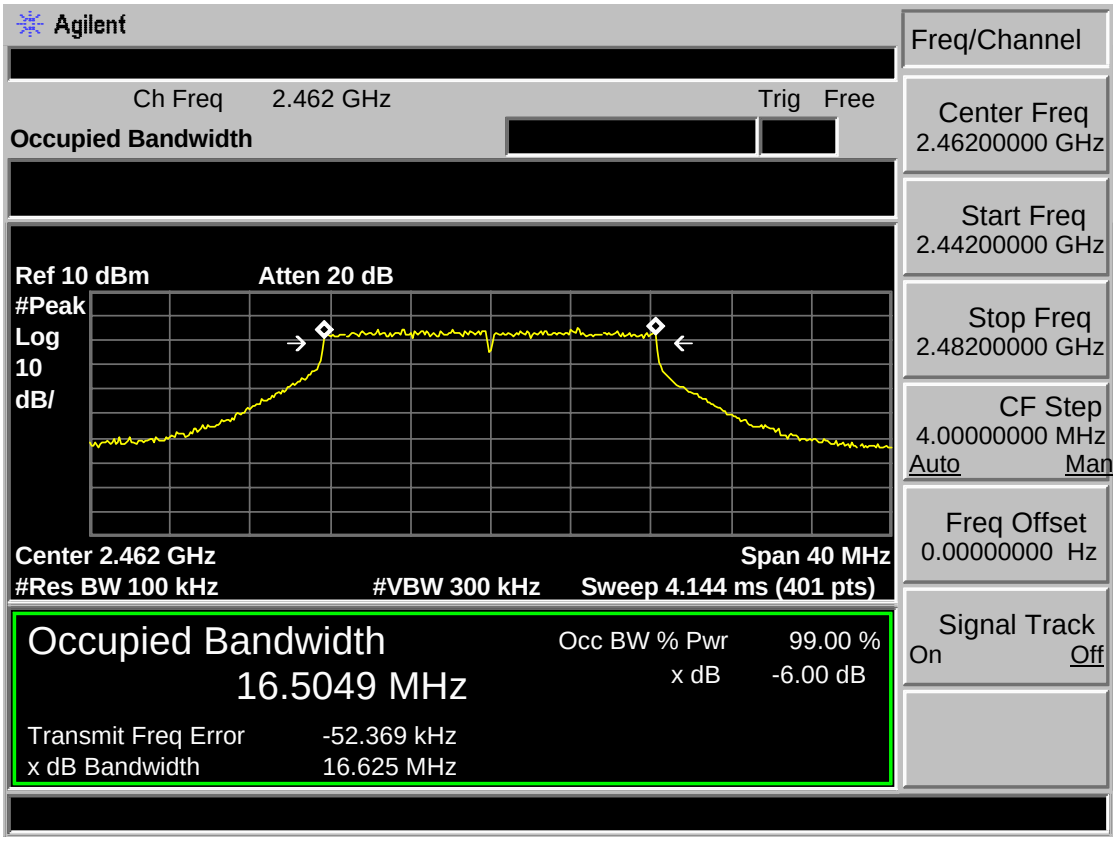
Test Mode: IEEE 802.11g TX (Ant 1)
Test CH1: 2412MHz



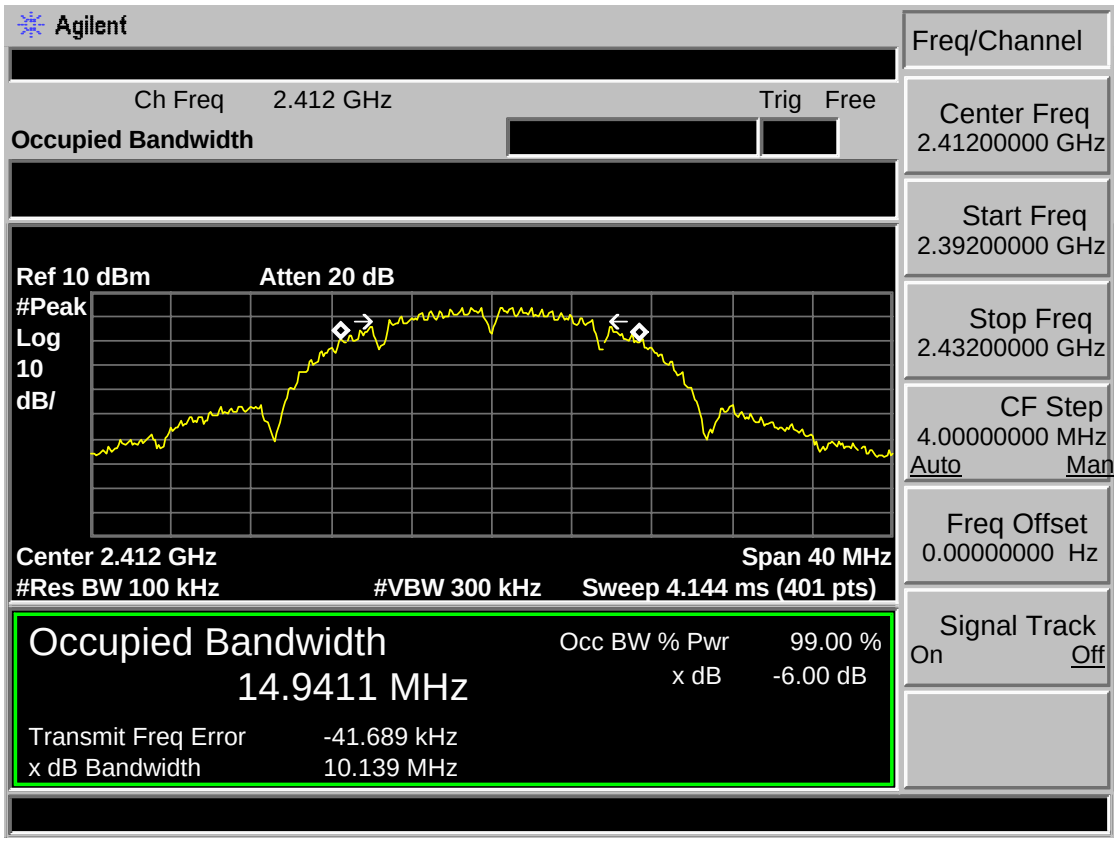
Test CH6: 2437MHz



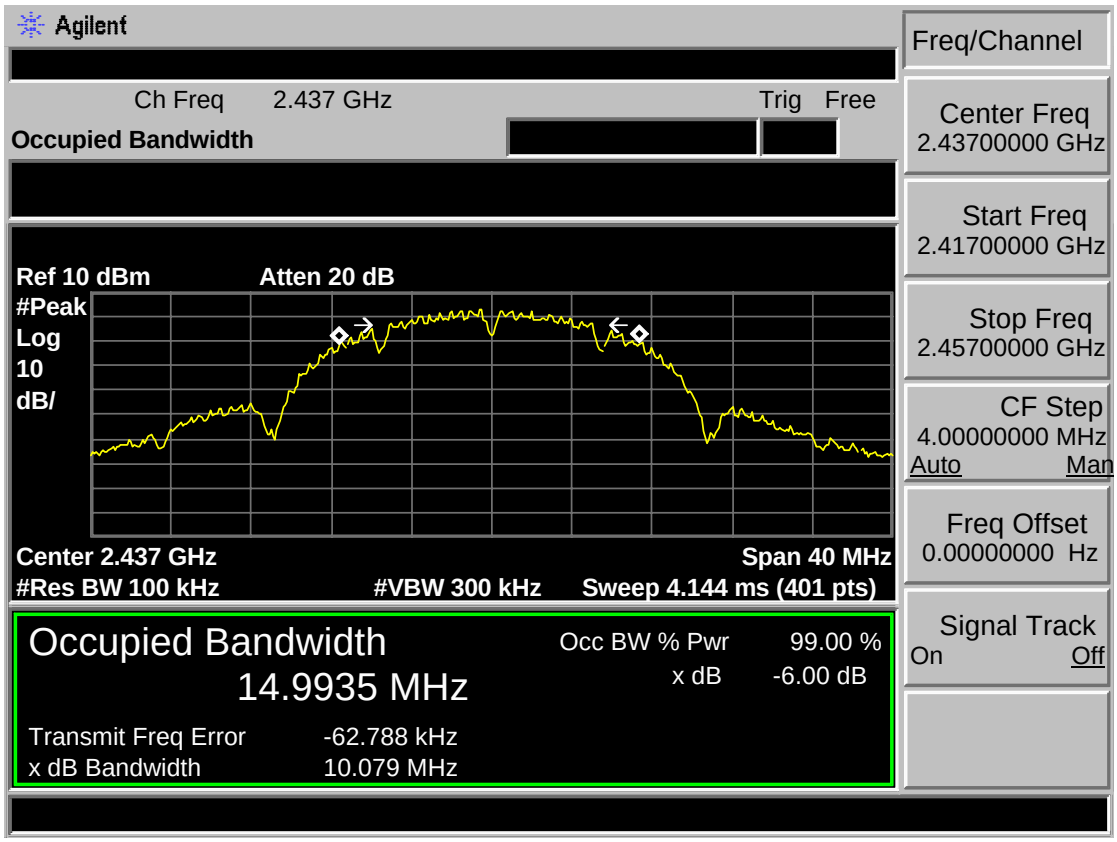
Test CH11: 2462MHz



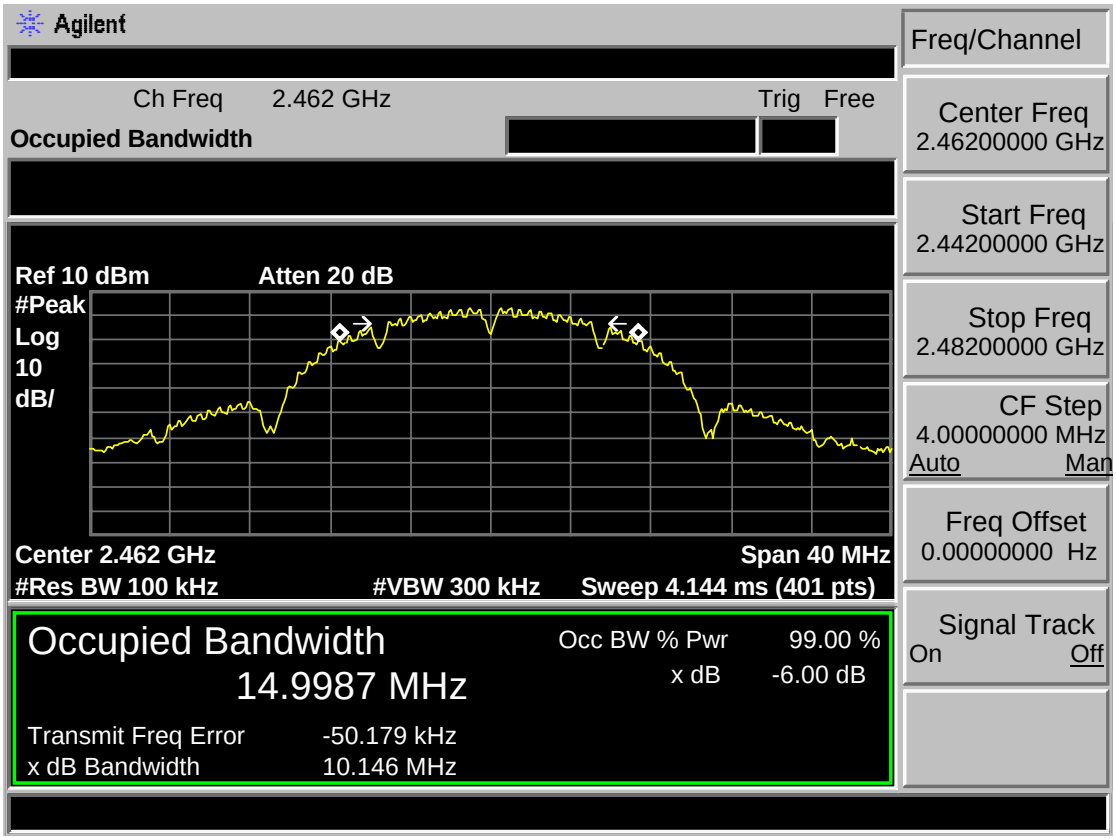
Test Mode: IEEE 802. 11b TX (Ant 2)
Test CH1: 2412MHz



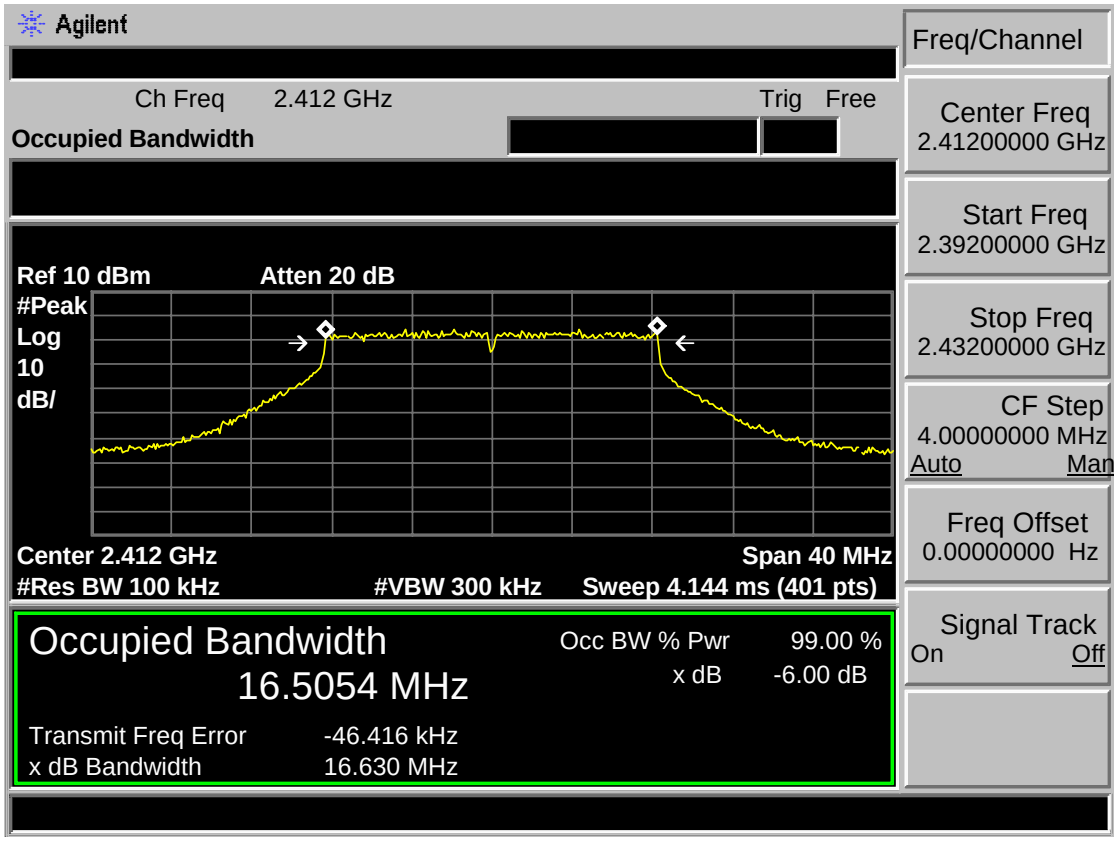
Test CH6: 2437MHz



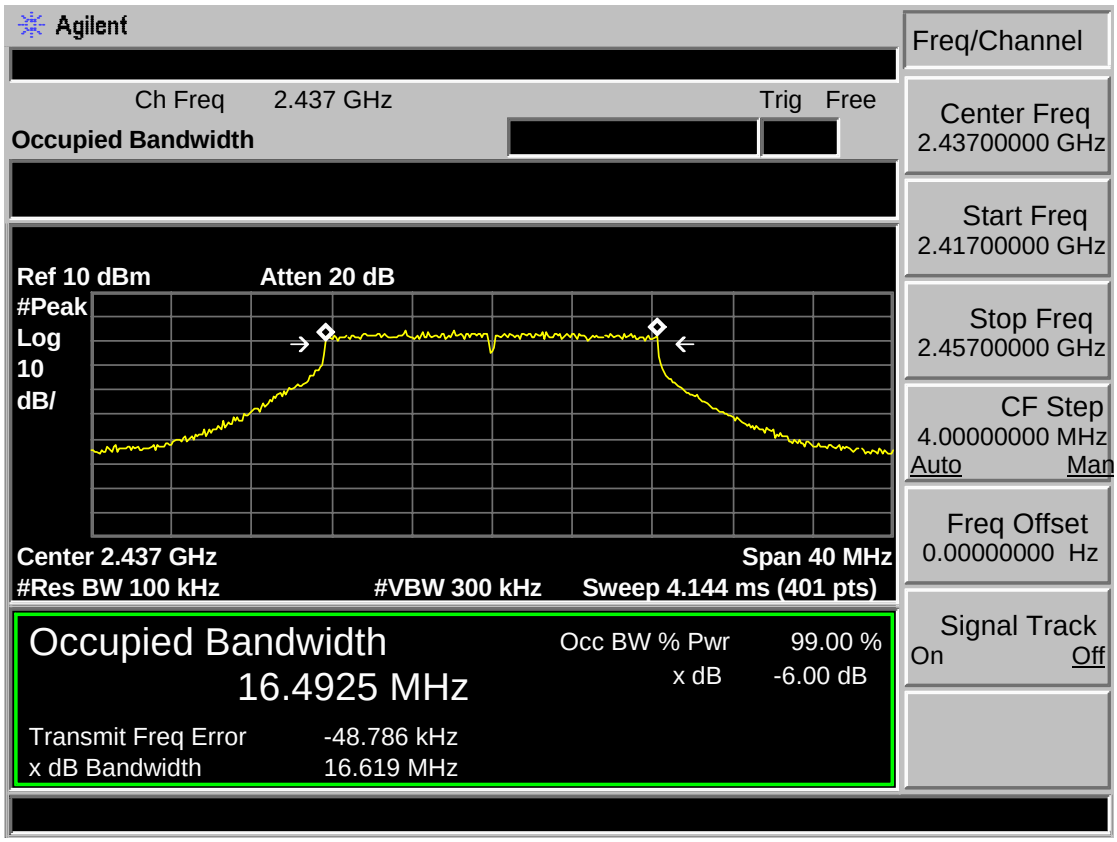
Test CH11: 2462MHz



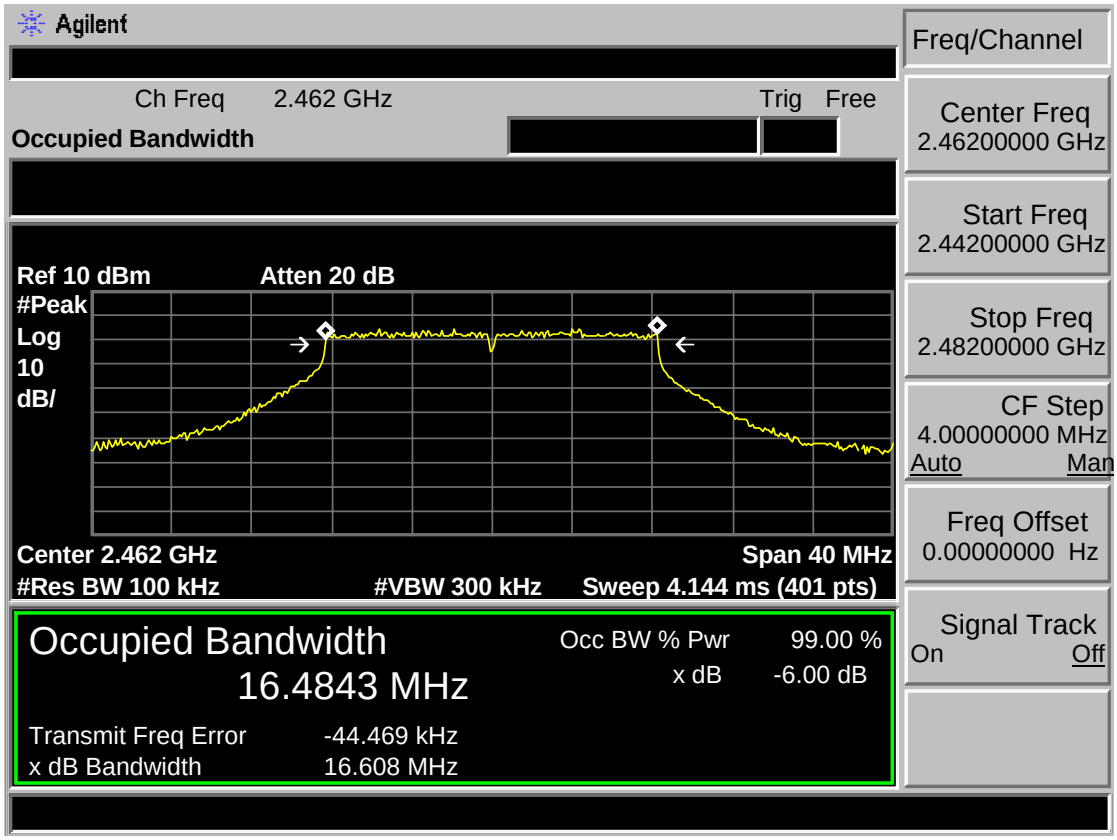
Test Mode: IEEE 802. 11g TX (Ant 2)
Test CH1: 2412MHz



Test CH4: 2437MHz



Test CH7: 2462MHz



8. OUTPUT POWER TEST

8.1. Limit

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

8.2. Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device.
2, Follow the test procedure as described in KDB 558074
(1). Set the RBW = maximum available (at least 1 MHz).
(2). Set the VBW = 3 x RBW or maximum available setting (must be ≥ RBW).
(3). Set the span to fully encompass the DTS bandwidth.
(4). Detector = peak.
(5). Sweep time = auto couple.
(6). Trace mode = max hold.
(7). Allow trace to fully stabilize.
(8). Use the spectrum analyzer's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some analyzers, this may require a manual override to ensure use of peak detector). If the spectrum analyzer does not have aband power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

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

8.3. Test Result

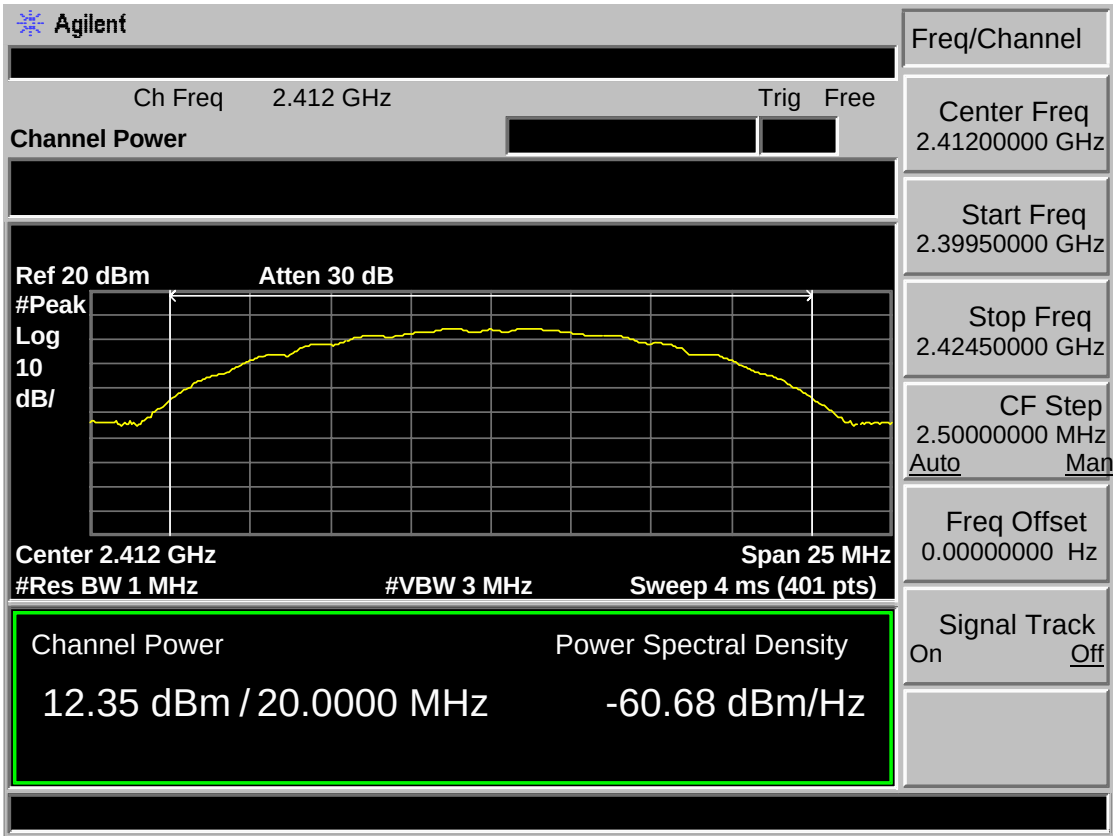
EUT: Audio Amplifier		
M/N: airstream A100		
Test date: Feb.21, 2013	Test site: 3m Chamber	Tested by: Tony Tang
Pass		

Test Mode	CH	Peak output Power（dBm）	Limit (dBm)
11b (Ant 1)	CH1	12.35	30
	CH6	12.31	30
	CH11	12.75	30
11g (Ant 1)	CH1	10.17	30
	CH6	10.18	30
	CH11	10.37	30
11b (Ant 2)	CH1	10.47	30
	CH6	10.25	30
	CH11	10.07	30
11g (Ant 2)	CH1	7.88	30
	CH6	8.21	30
	CH11	8.34	30
Conclusion：PASS			

8.4. Test Data

Test Mode: IEEE 802. 11b (Ant 1)

CH 1



CH 6

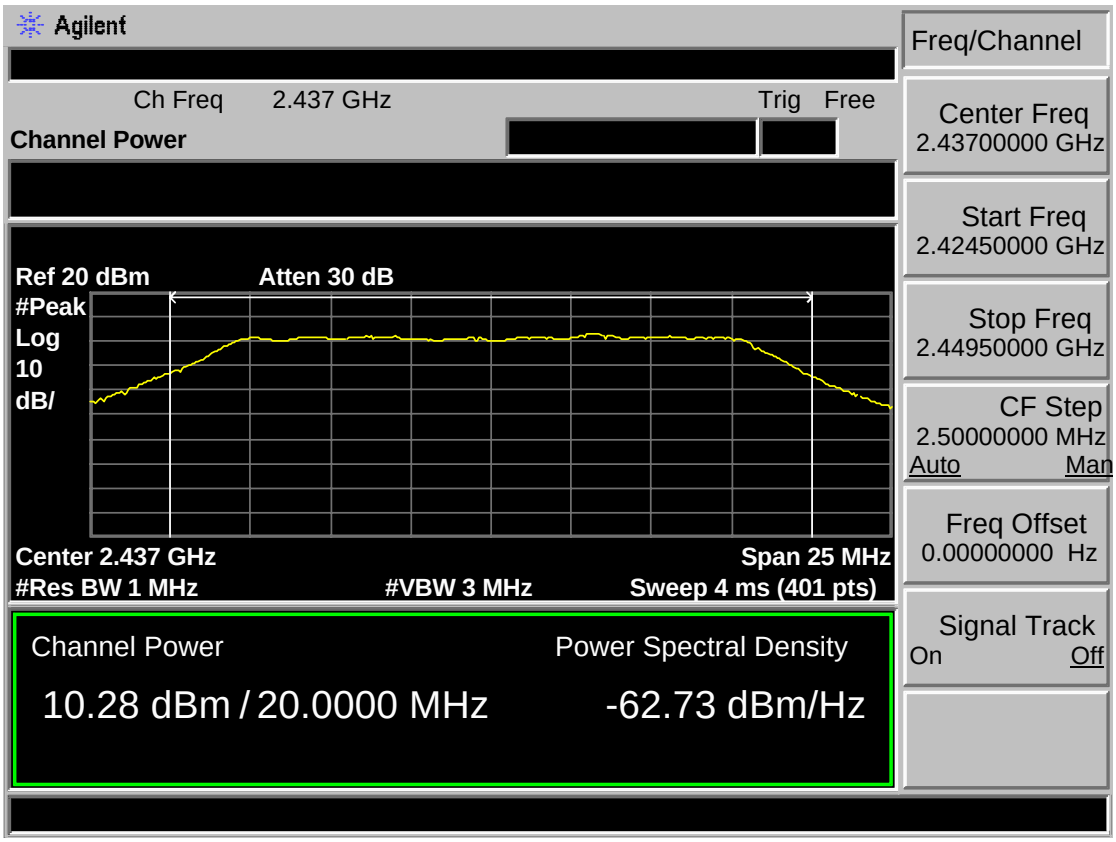
CH 11


Agilent
Ch Freq 2.462 GHz
Trig Free
Channel Power
Ref 20 dBm
Atten 30 dB
#Peak
Log
10
dB/
Center 2.462 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 25 MHz
Sweep 4 ms (401 pts)
Channel Power
12.75 dBm / 20.0000 MHz
Power Spectral Density
-60.27 dBm/Hz
Freq/Channel
Center Freq
2.46200000 GHz
Start Freq
2.44950000 GHz
Stop Freq
2.47450000 GHz
CF Step
2.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

Test Mode: IEEE 802.11g (Ant 1)

CH 1

CH 6



CH 11


Agilent
Ch Freq 2.462 GHz
Trig Free
Channel Power
Ref 20 dBm
Atten 30 dB
#Peak
Log
10
dB/
Center 2.462 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 25 MHz
Sweep 4 ms (401 pts)
Channel Power
10.37 dBm / 20.0000 MHz
Power Spectral Density
-62.68 dBm/Hz
Freq/Channel
Center Freq
2.46200000 GHz
Start Freq
2.44950000 GHz
Stop Freq
2.47450000 GHz
CF Step
2.50000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

Test Mode: IEEE 802. 11b (Ant 2)

CH 1

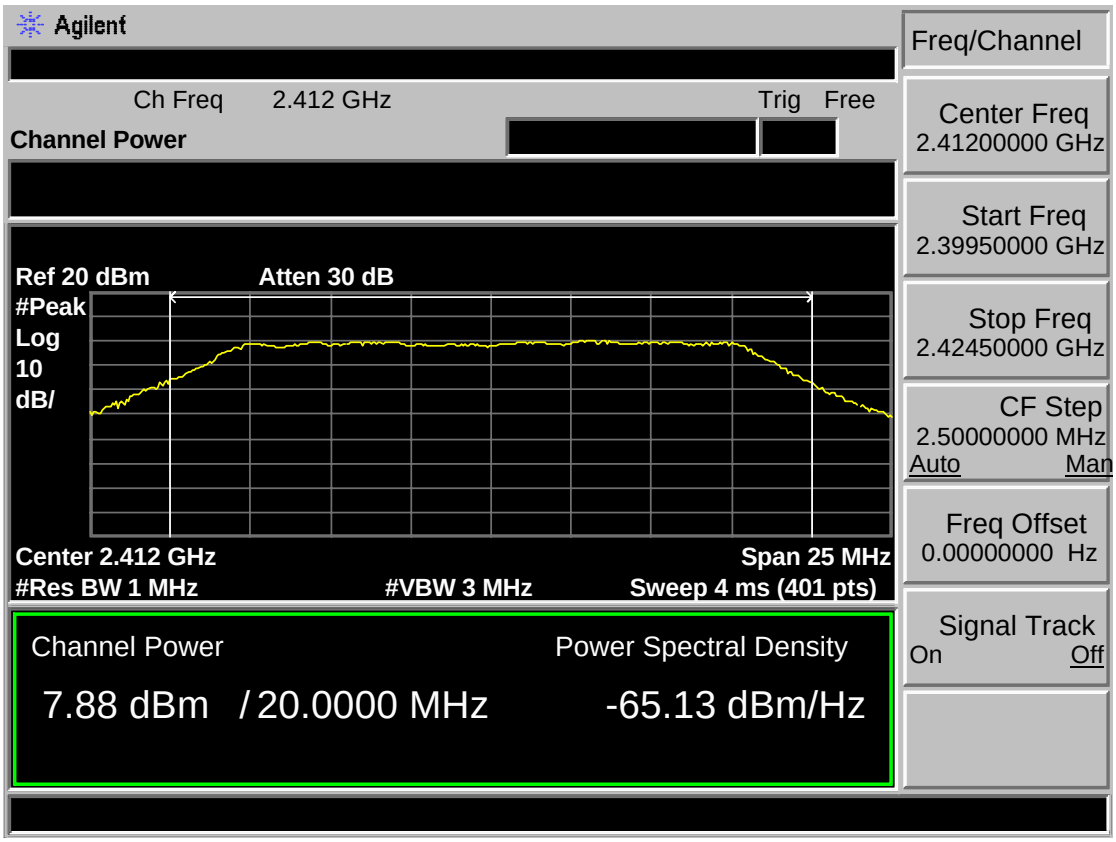
CH 6

CH 11

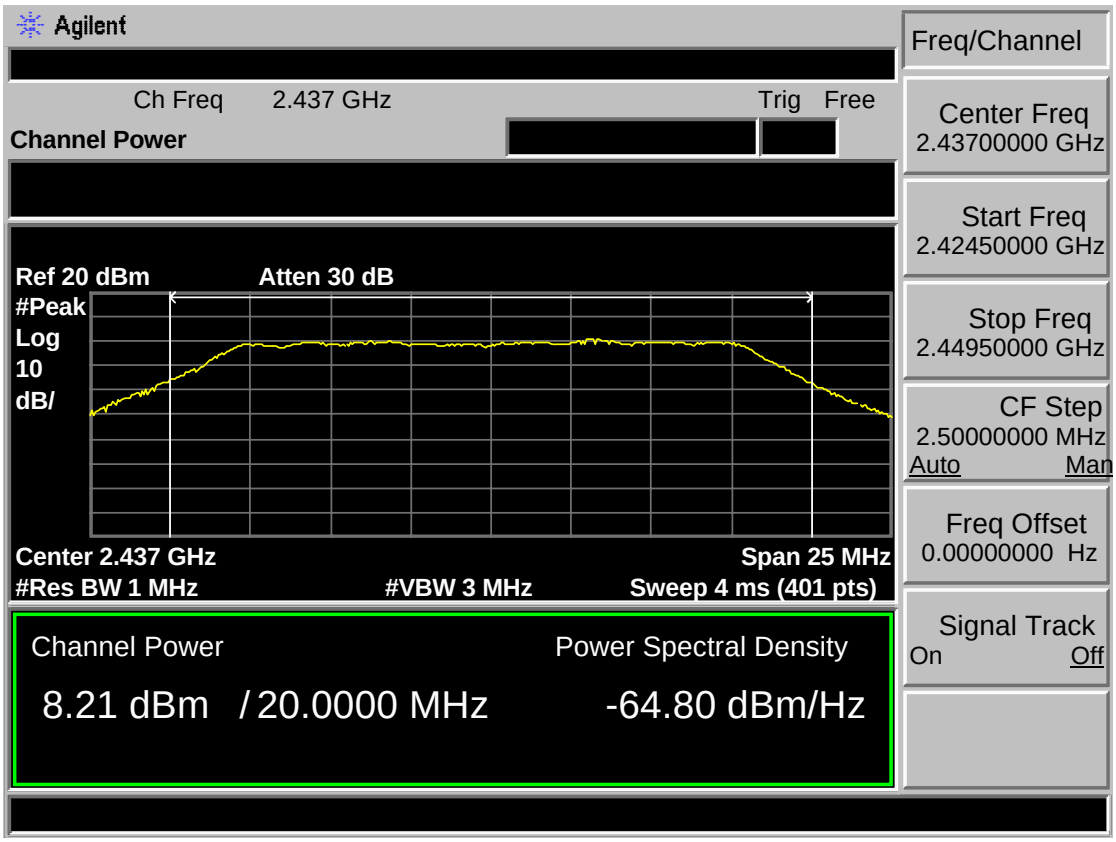

Agilent
Ch Freq 2.462 GHz
Trig Free
Channel Power
Ref 20 dBm
Atten 30 dB
#Peak
Log
10
dB/
Center 2.462 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 25 MHz
Sweep 4 ms (401 pts)
Channel Power
10.07 dBm / 20.0000 MHz
Power Spectral Density
-62.94 dBm/Hz
Freq/Channel
Center Freq
2.46200000 GHz
Start Freq
2.44950000 GHz
Stop Freq
2.47450000 GHz
CF Step
2.50000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

Test Mode: IEEE 802. 11g (Ant 2)

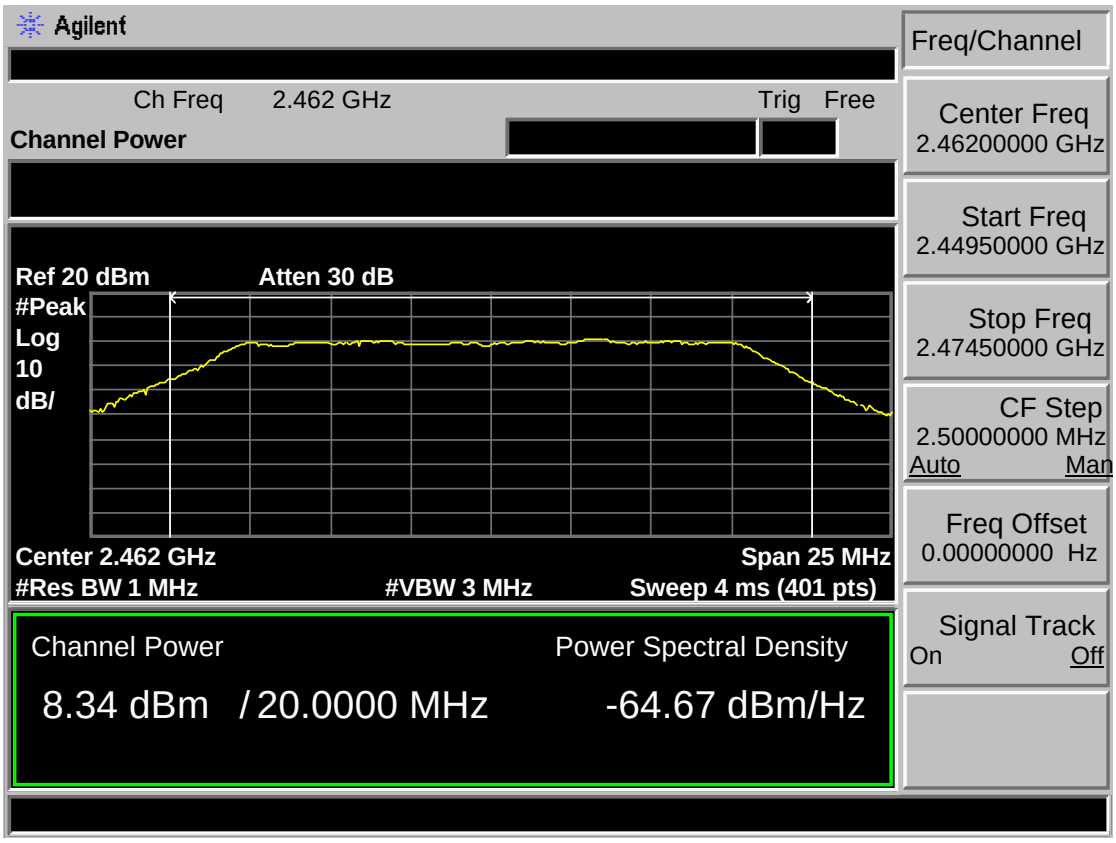
CH 1



CH 6



CH 11


Agilent
Ch Freq 2.462 GHz
Trig Free
Channel Power
Ref 20 dBm
Atten 30 dB
#Peak
Log
10
dB/
Center 2.462 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 25 MHz
Sweep 4 ms (401 pts)
Channel Power
8.34 dBm / 20.0000 MHz
Power Spectral Density
-64.67 dBm/Hz
Freq/Channel
Center Freq
2.46200000 GHz
Start Freq
2.44950000 GHz
Stop Freq
2.47450000 GHz
CF Step
2.50000000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off

9. POWER SPECTRAL DENSITY TEST

9.1. 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.

9.2. Test Procedure

1, Connected the EUT's antenna port to spectrum analyzer device.

2, Follow the test procedure as described in KDB 558074
(1). Set analyzer center frequency to DTS channel center frequency.
(2). Set the span to 1.5 times the DTS channel bandwidth.
(3). Set the RBW ≥ 3 kHz.
(4). Set the VBW ≥ 3 x RBW.
(5). Detector = peak.
(6). Sweep time = auto couple.
(7). Trace mode = max hold.
(8). Allow trace to fully stabilize.
(9). Use the peak marker function to determine the maximum amplitude level. 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

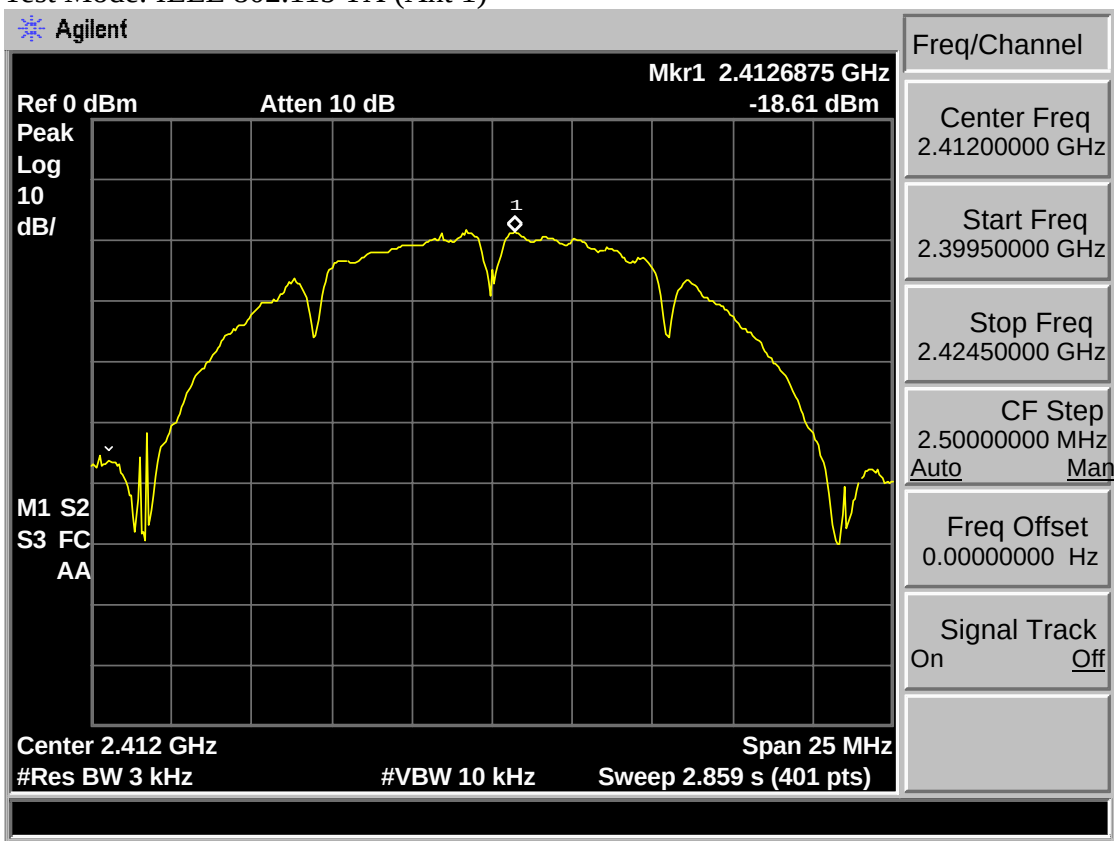
9.3. Test Result

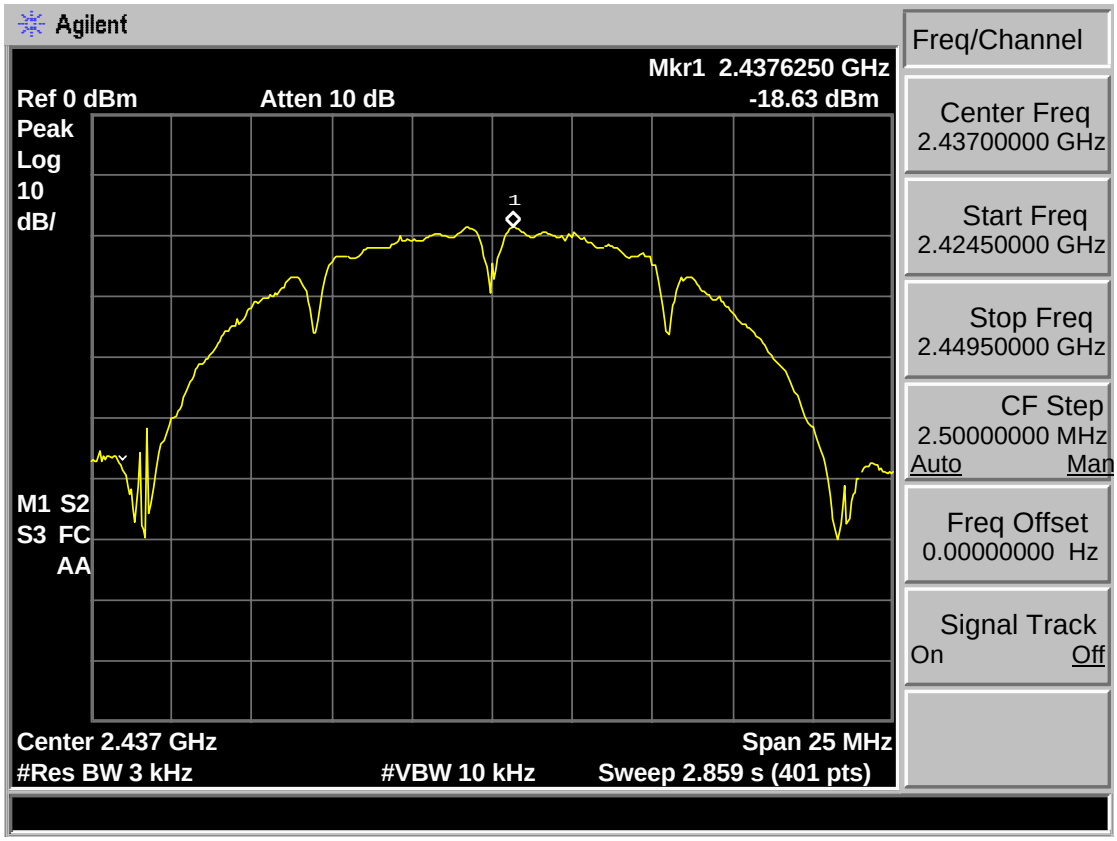
EUT: Audio Amplifier		
M/N: airstream A100		
Test date: Feb.21, 2013	Test site: 3m Chamber	Tested by: Tony Tang
Pass		

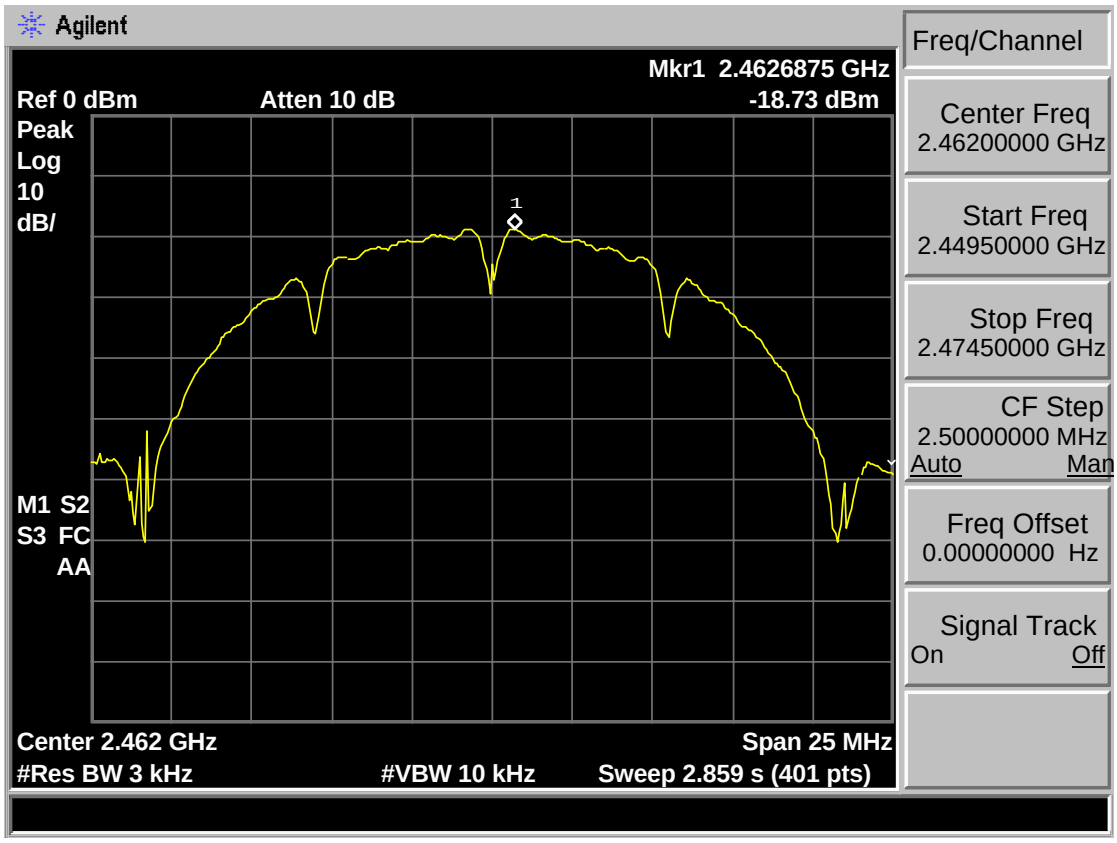
Test Mode	CH	Power density (dBm/3kHz）	Limit (dBm/3kHz)
11b (Ant 1)	CH1	-18.61	8
	CH6	-18.63	8
	CH11	18.73	8
11g (Ant 1)	CH1	-18.02	8
	CH6	-18.32	8
	CH11	-18.26	8
11b (Ant 2)	CH1	-19.77	8
	CH6	-19.61	8
	CH11	-19.76	8
11g (Ant 2)	CH1	-19.67	8
	CH6	-19.74	8
	CH11	-19.80	8
Conclusion：PASS			

9.4. Test Data

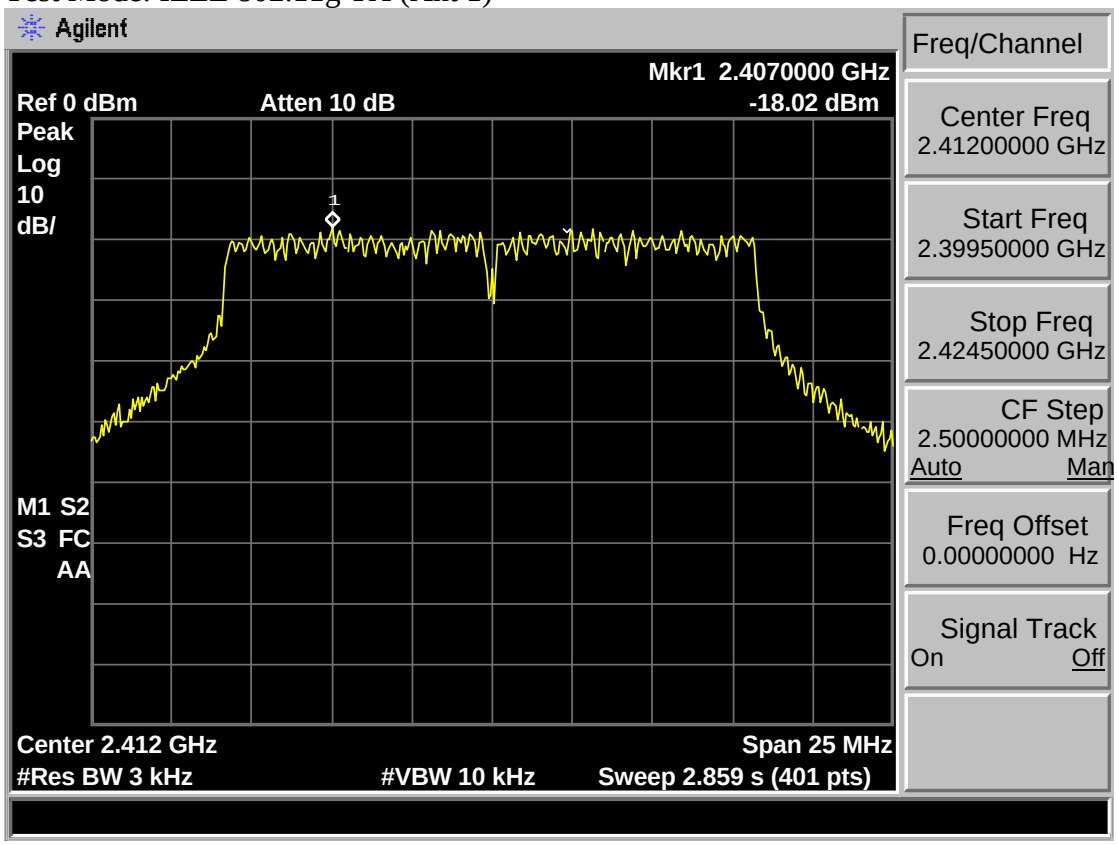
Test Mode: IEEE 802.11b TX (Ant 1)

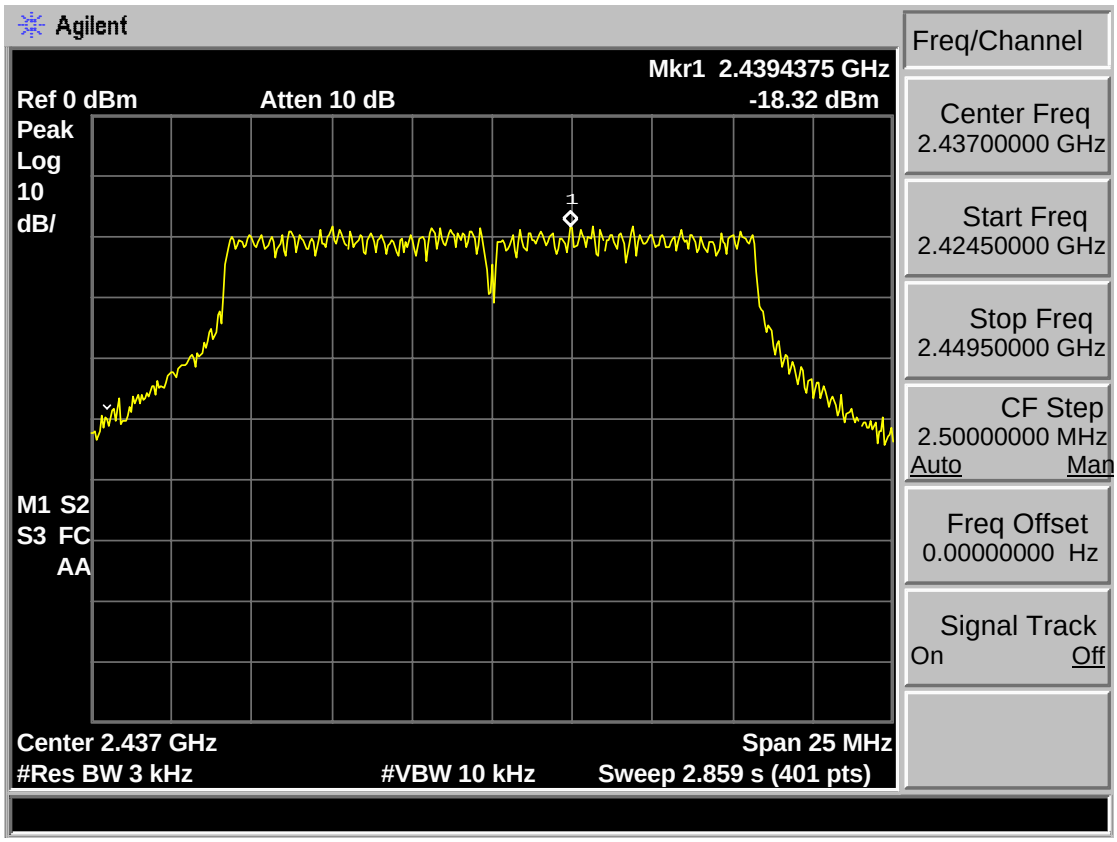


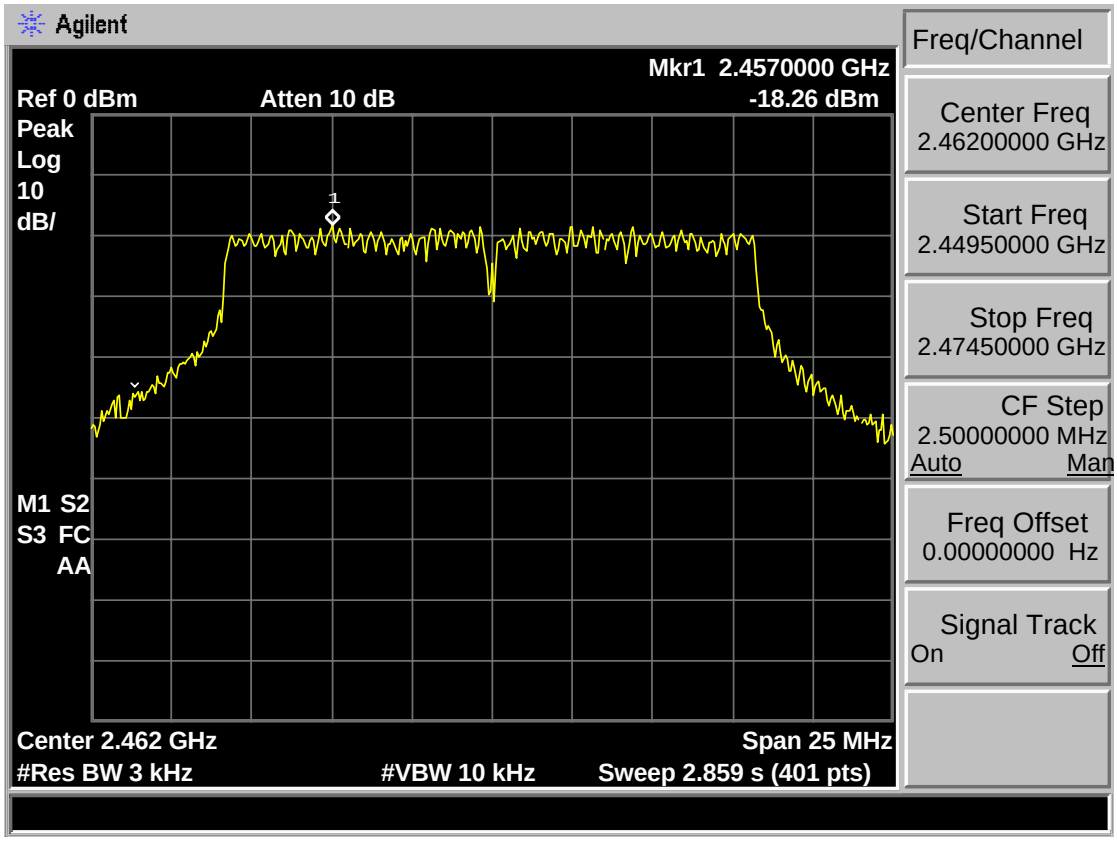



Agilent
Mkr1 2.4626875 GHz
Ref 0 dBm
Atten 10 dB
-18.73 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Center 2.462 GHz
Span 25 MHz
#Res BW 3 kHz
#VBW 10 kHz
Sweep 2.859 s (401 pts)
Freq/Channel
Center Freq
2.46200000 GHz
Start Freq
2.44950000 GHz
Stop Freq
2.47450000 GHz
CF Step
2.50000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

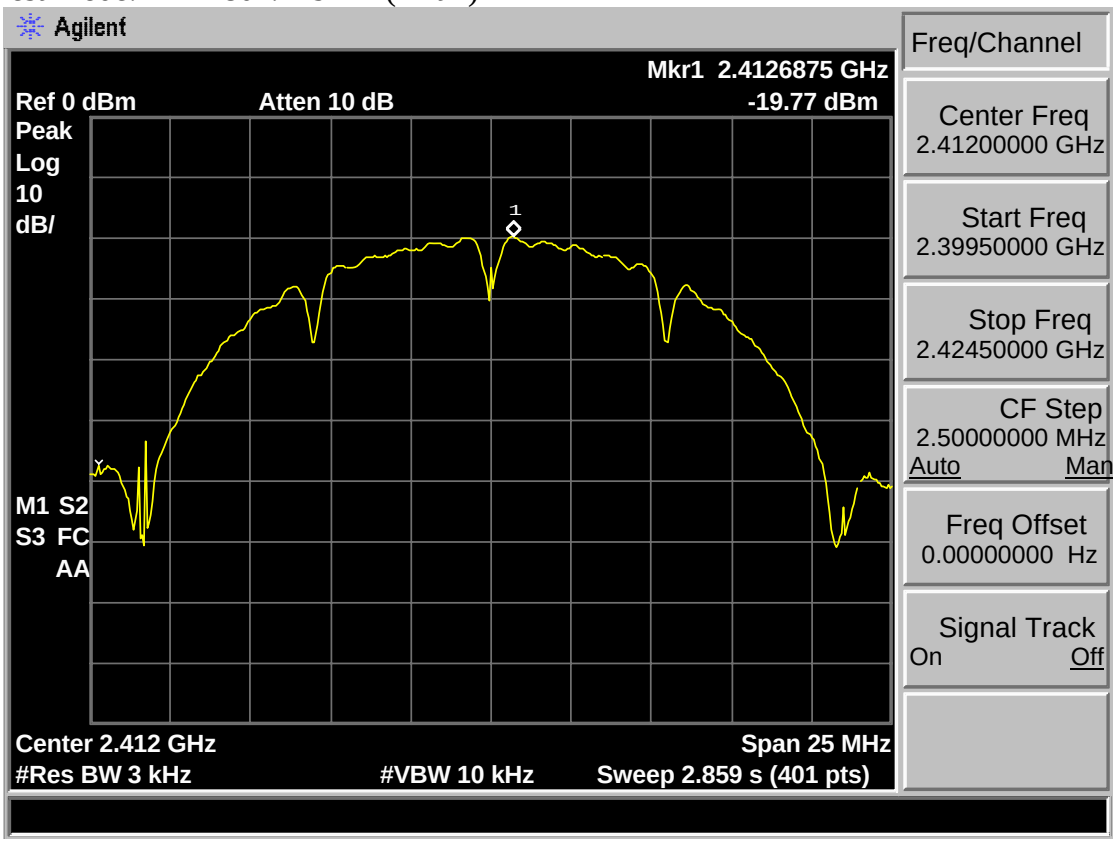
Test Mode: IEEE 802.11g TX (Ant 1)

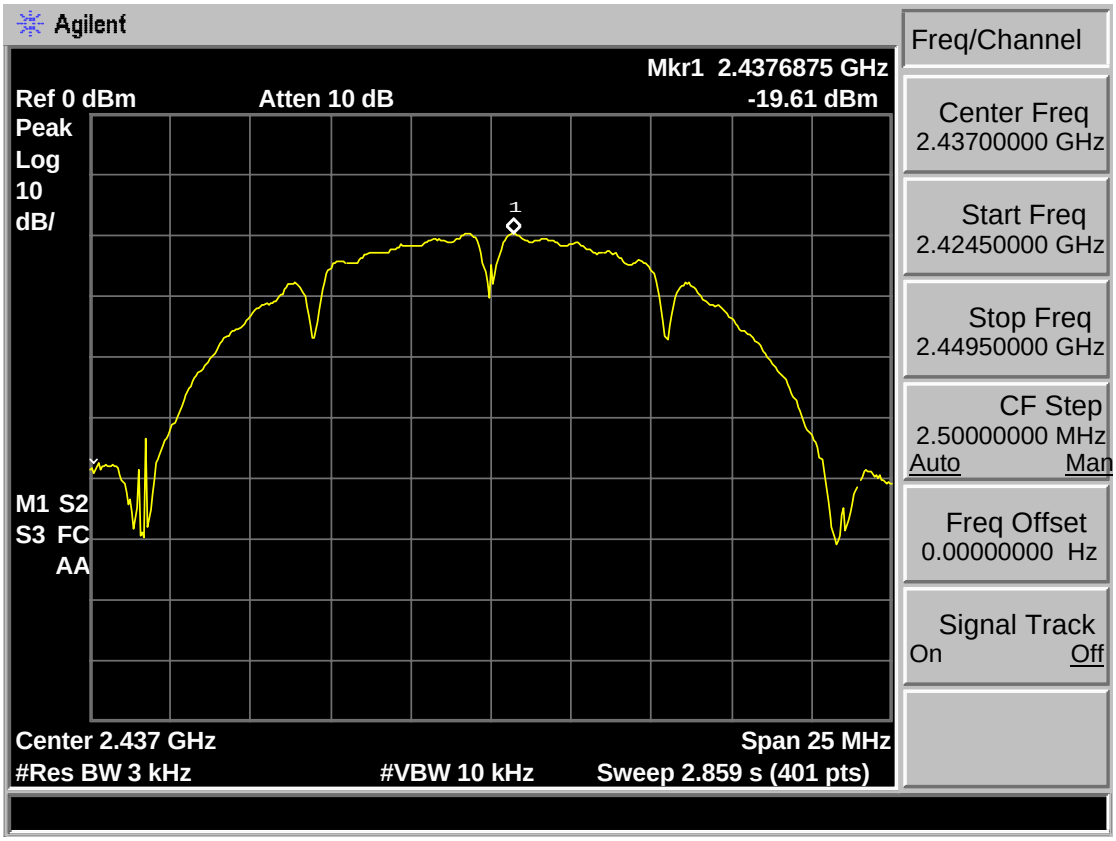


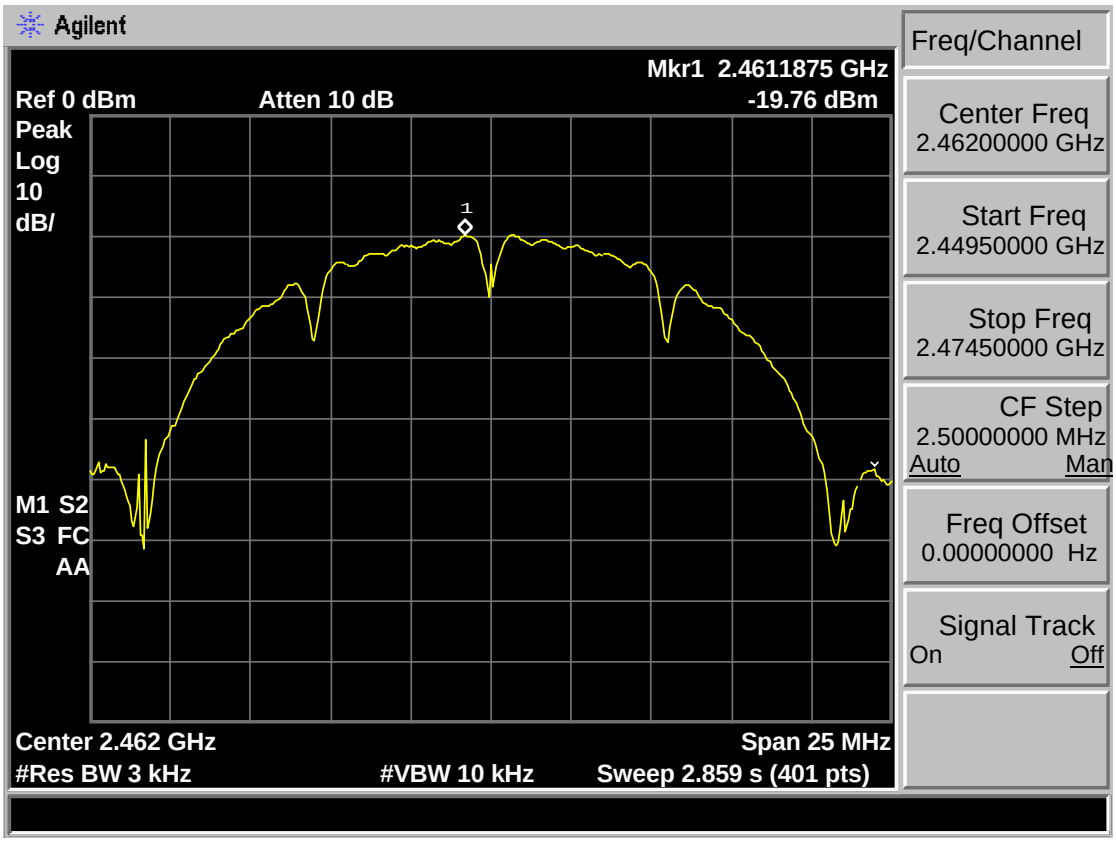



Agilent
Mkr1 2.4570000 GHz
Ref 0 dBm
Atten 10 dB
-18.26 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Center 2.462 GHz
Span 25 MHz
#Res BW 3 kHz
#VBW 10 kHz
Sweep 2.859 s (401 pts)
Freq/Channel
Center Freq
2.46200000 GHz
Start Freq
2.44950000 GHz
Stop Freq
2.47450000 GHz
CF Step
2.50000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

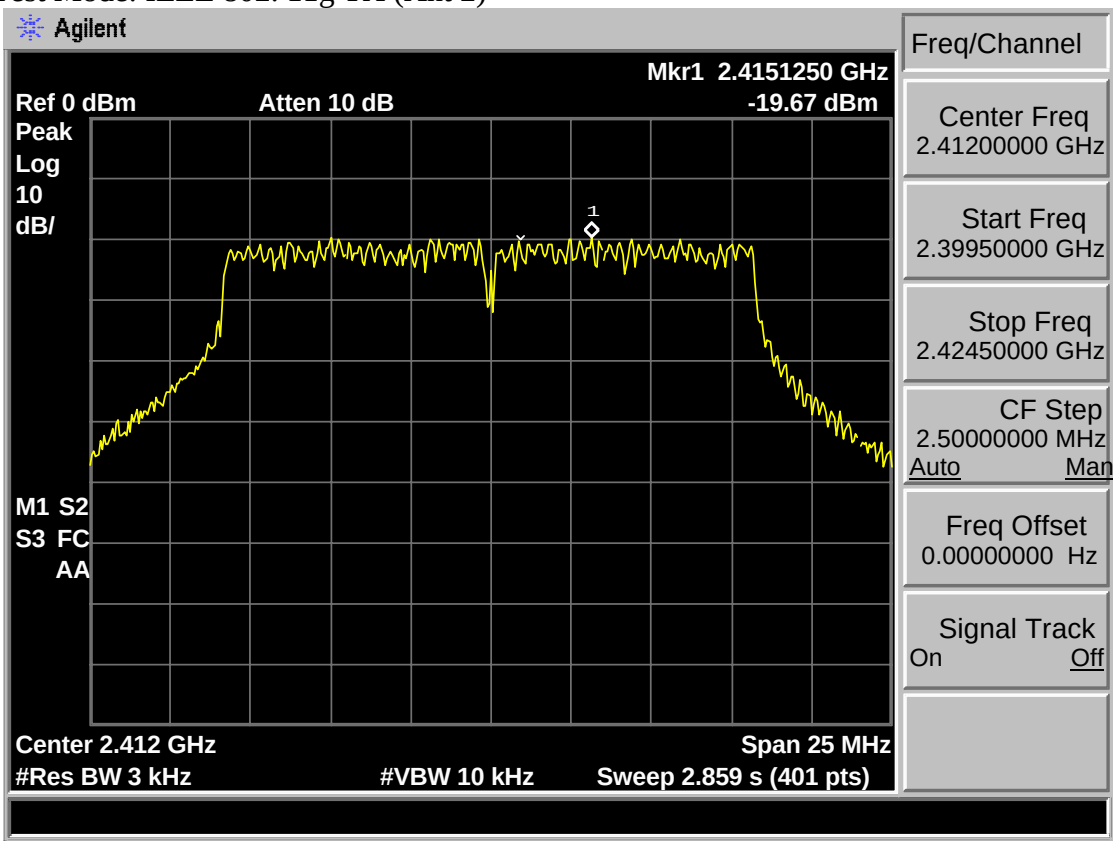
Test Mode: IEEE 802.11b TX (Ant 2)

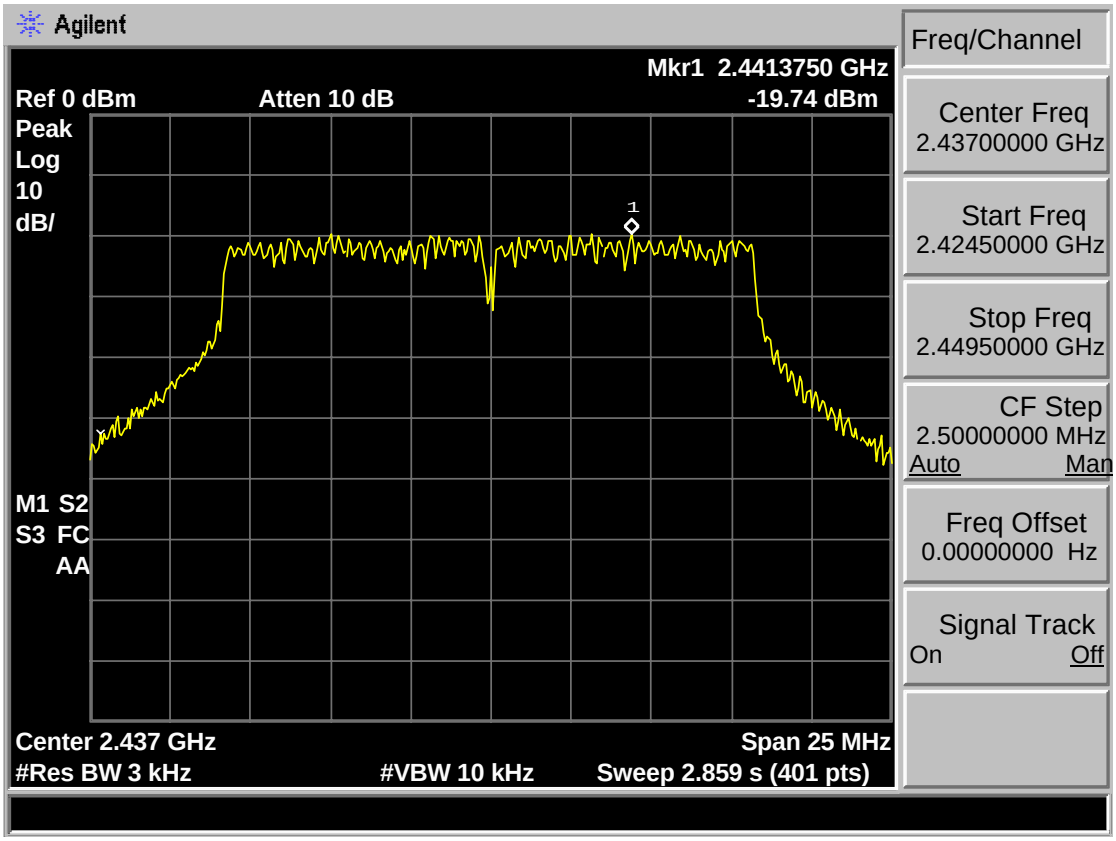


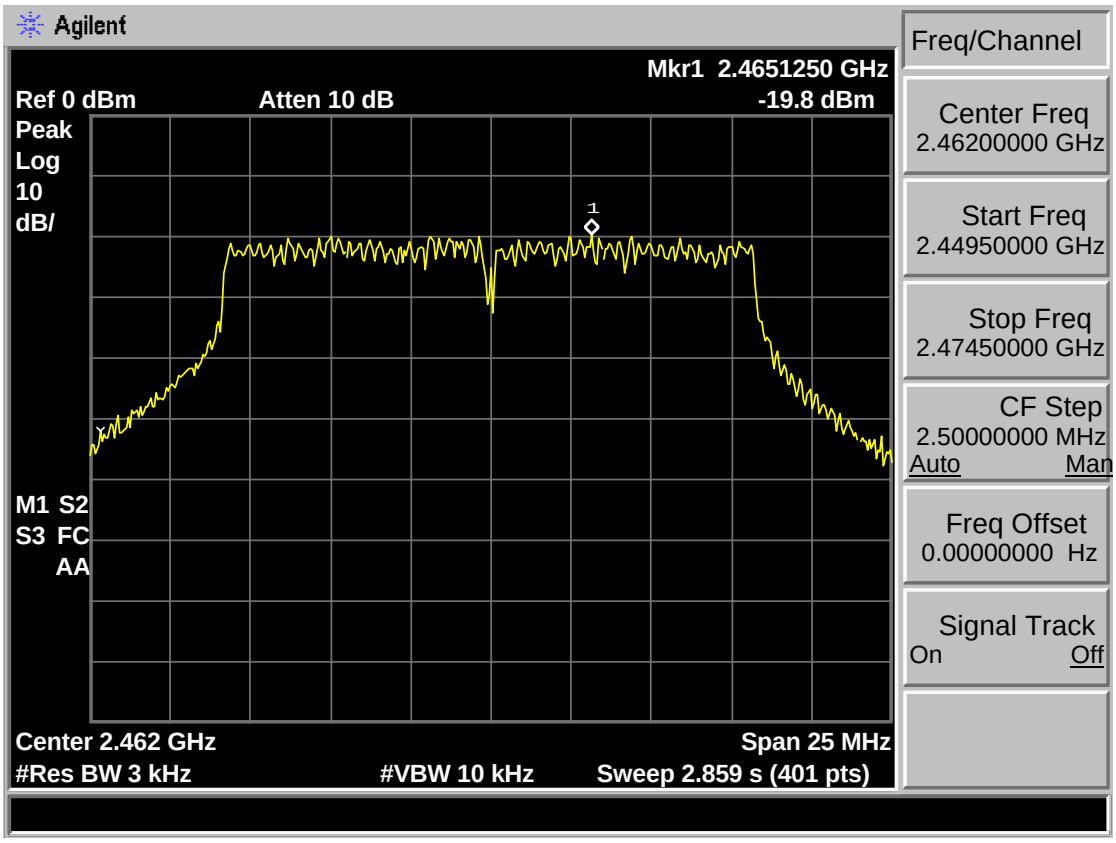



Agilent
Mkr1 2.4611875 GHz
Ref 0 dBm
Atten 10 dB
-19.76 dBm
Peak
Log
10
dB/
M1 S2
S3 FC
AA
Center 2.462 GHz
Span 25 MHz
#Res BW 3 kHz
#VBW 10 kHz
Sweep 2.859 s (401 pts)
Freq/Channel
Center Freq
2.46200000 GHz
Start Freq
2.44950000 GHz
Stop Freq
2.47450000 GHz
CF Step
2.50000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

Test Mode: IEEE 802. 11g TX (Ant 2)






Agilent
Mkr1 2.4651250 GHz
Ref 0 dBm
Atten 10 dB
-19.8 dBm
Peak
Log
10
dB/
1
M1 S2
S3 FC
AA
Center 2.462 GHz
Span 25 MHz
#Res BW 3 kHz
#VBW 10 kHz
Sweep 2.859 s (401 pts)
Freq/Channel
Center Freq
2.46200000 GHz
Start Freq
2.44950000 GHz
Stop Freq
2.47450000 GHz
CF Step
2.50000000 MHz
Auto
Man
Freq Offset
0.00000000 Hz
Signal Track
On
Off

10. ANTENNA REQUIREMENTS

10.1. Limit

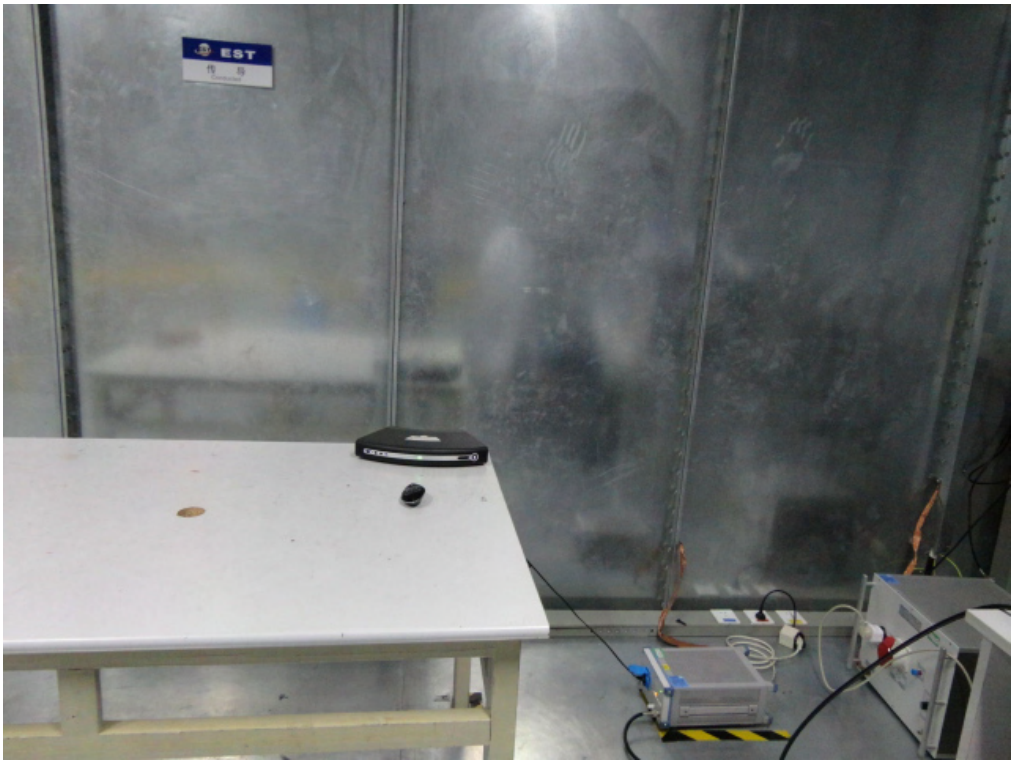
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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.

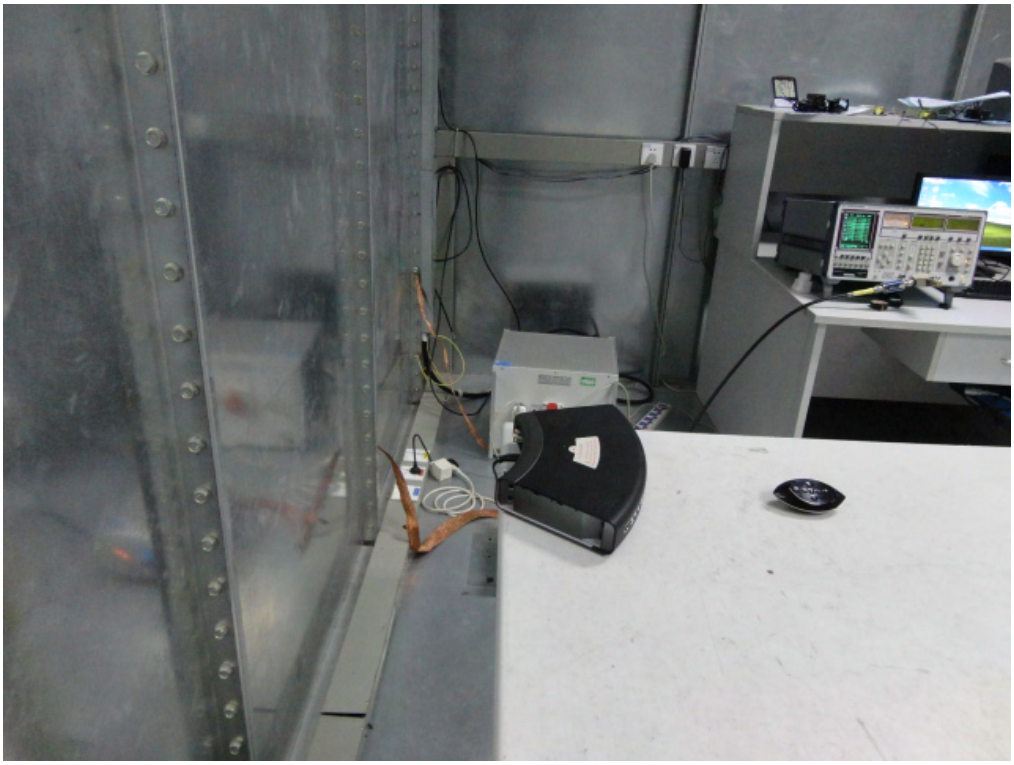
10.2. Result

The antennas used for this product are integral Patch Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.2 dBi.

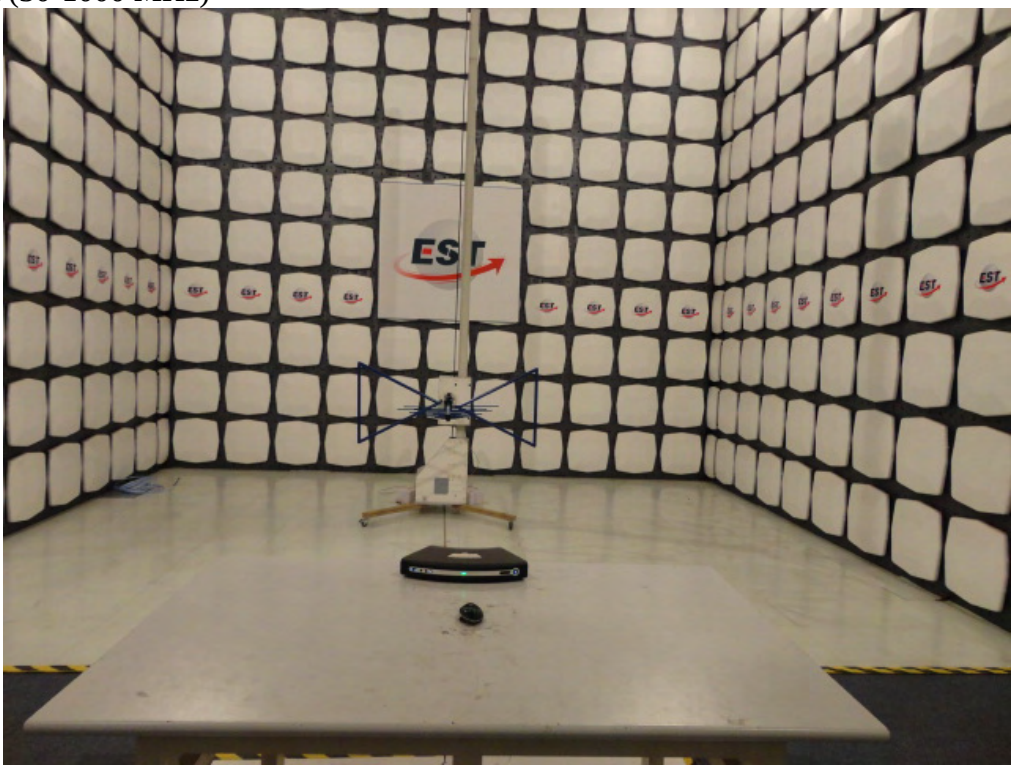
11. TEST SETUP PHOTO

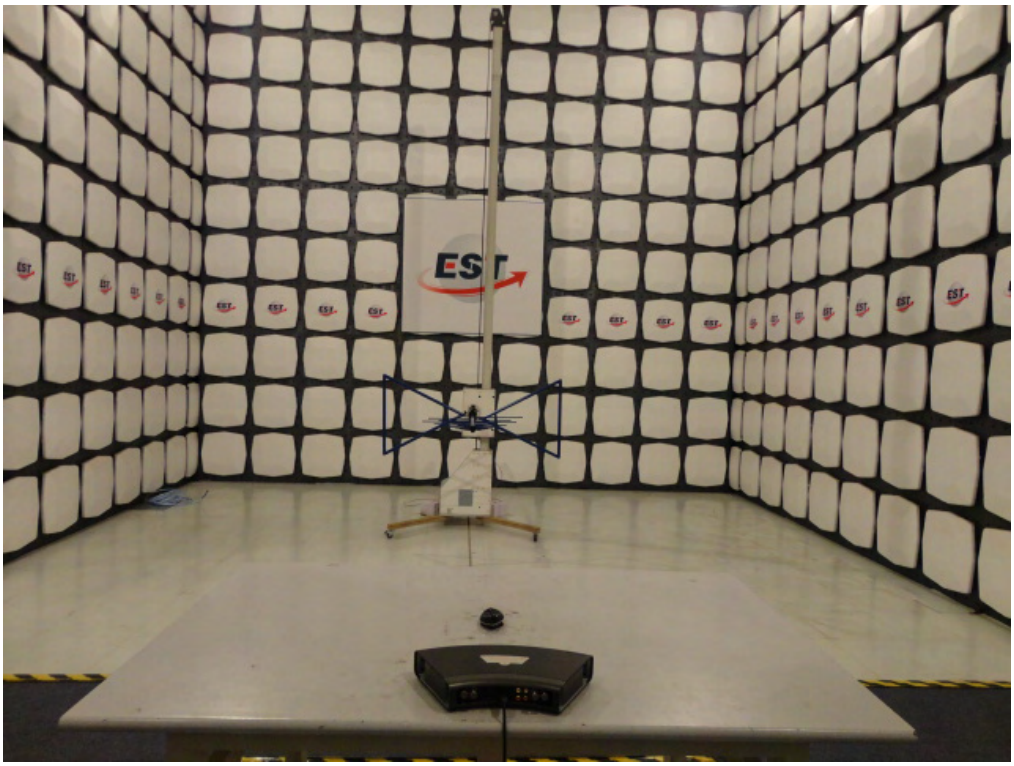
Conducted Test



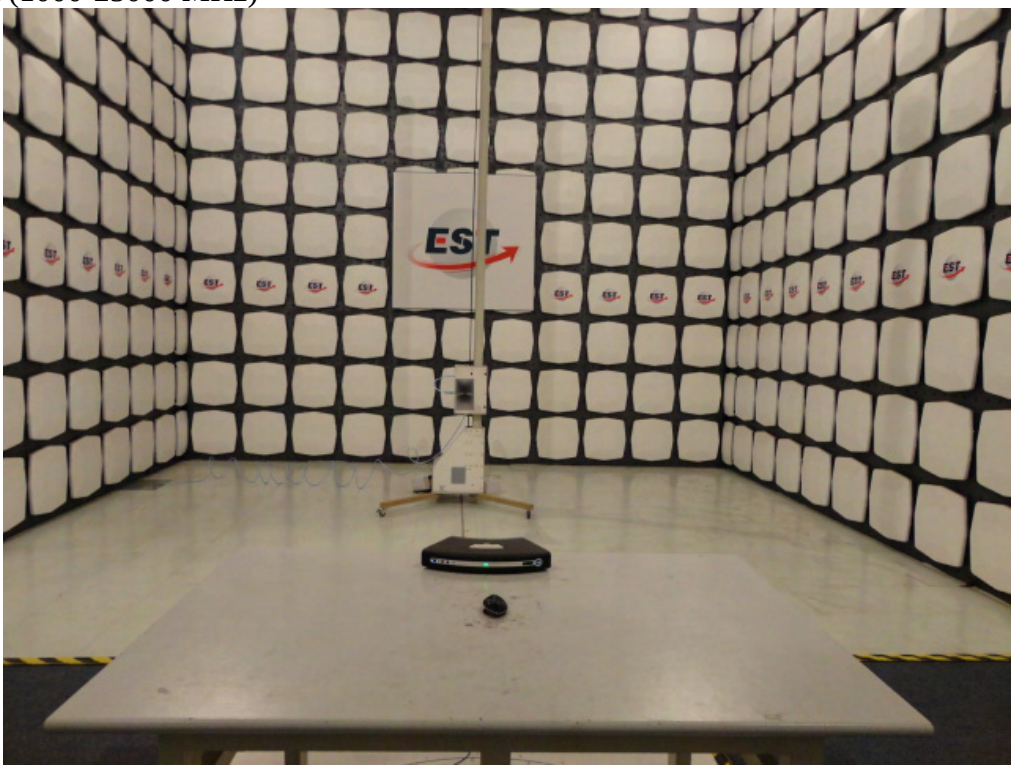


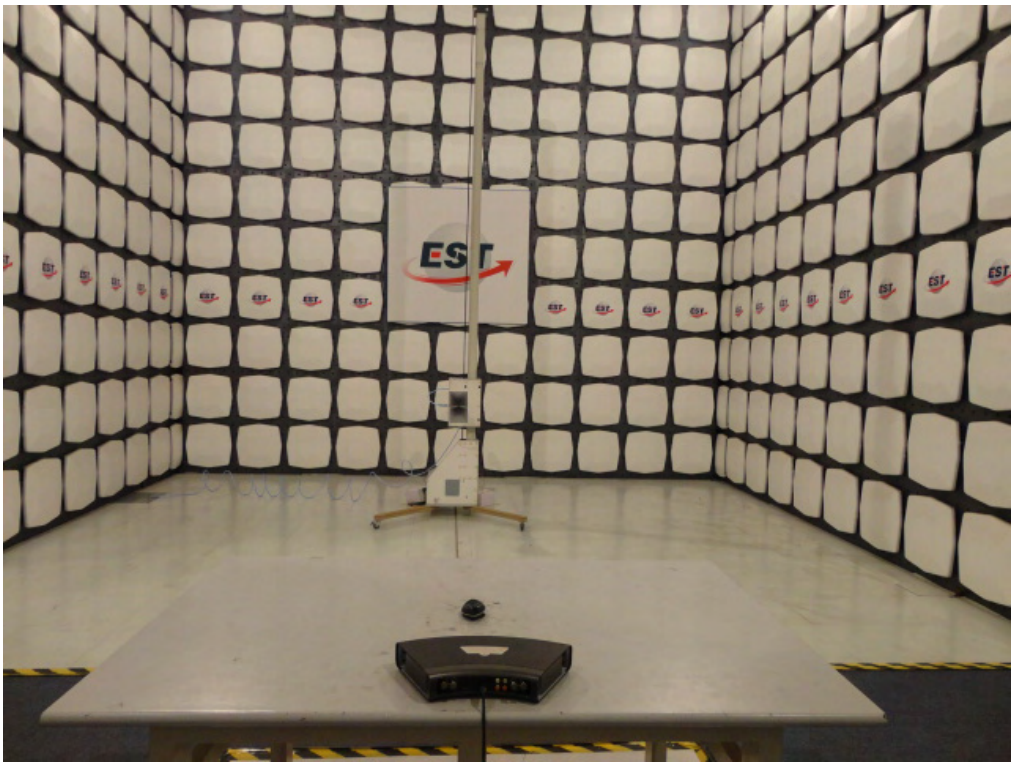
Radiated Test (30-1000 MHz)





Radiated Test (1000-25000 MHz)





12. PHOTOS OF EUT

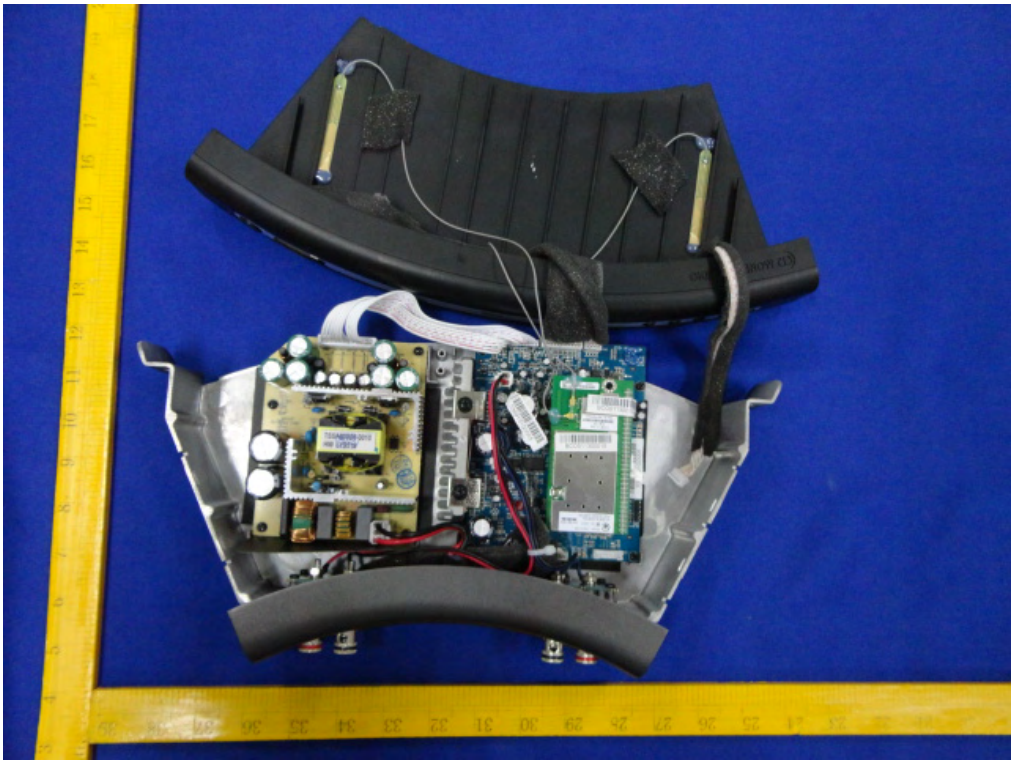
External Photos

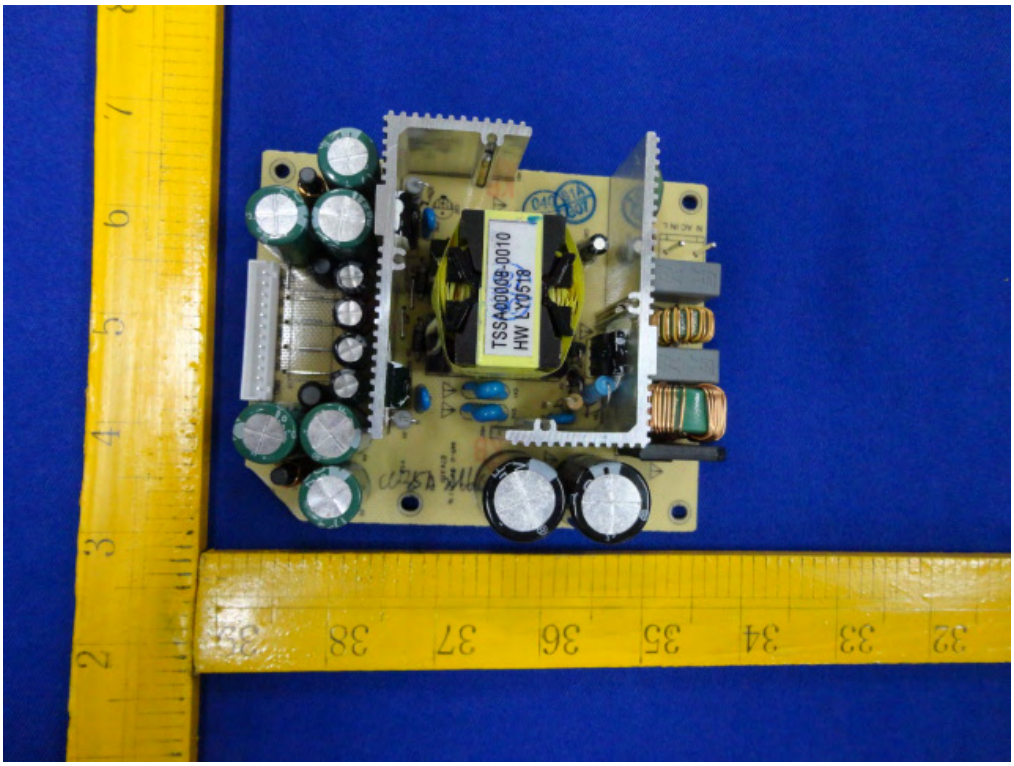
External Photos

External Photos

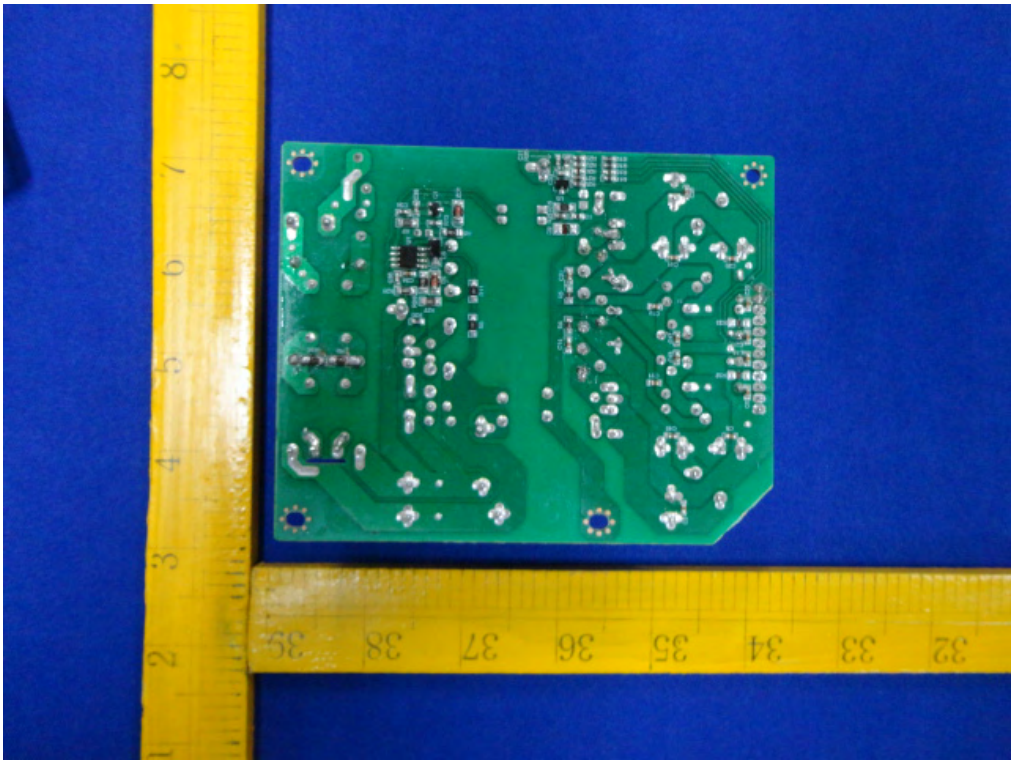
External Photos

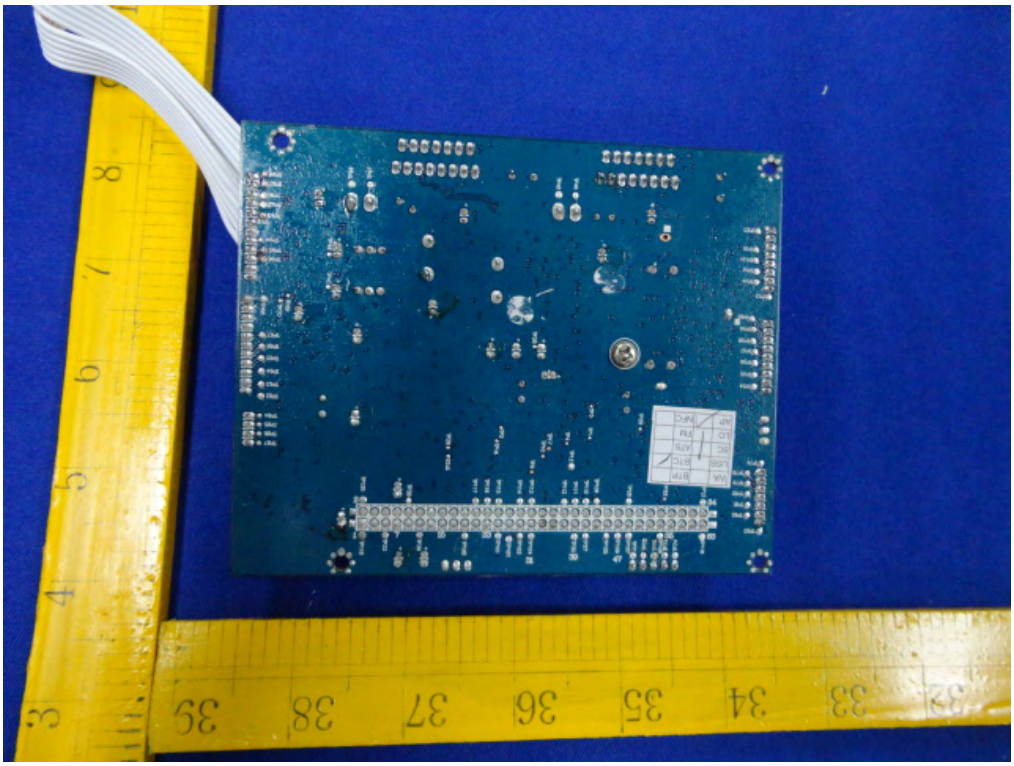
Internal Photos





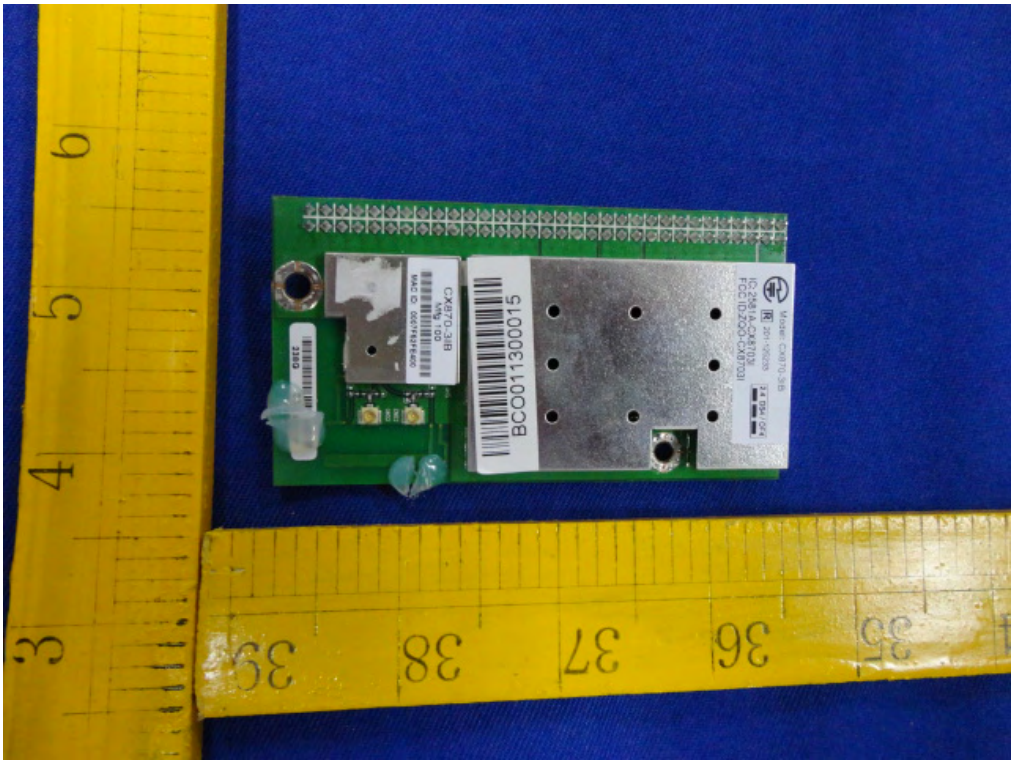
Internal Photos

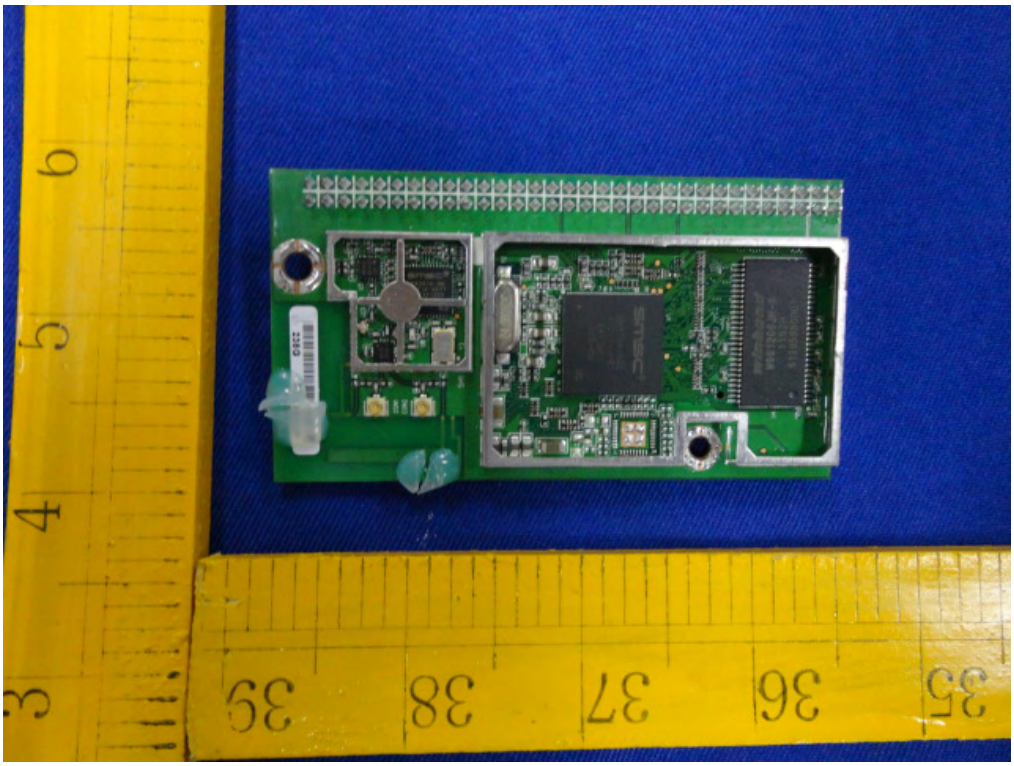




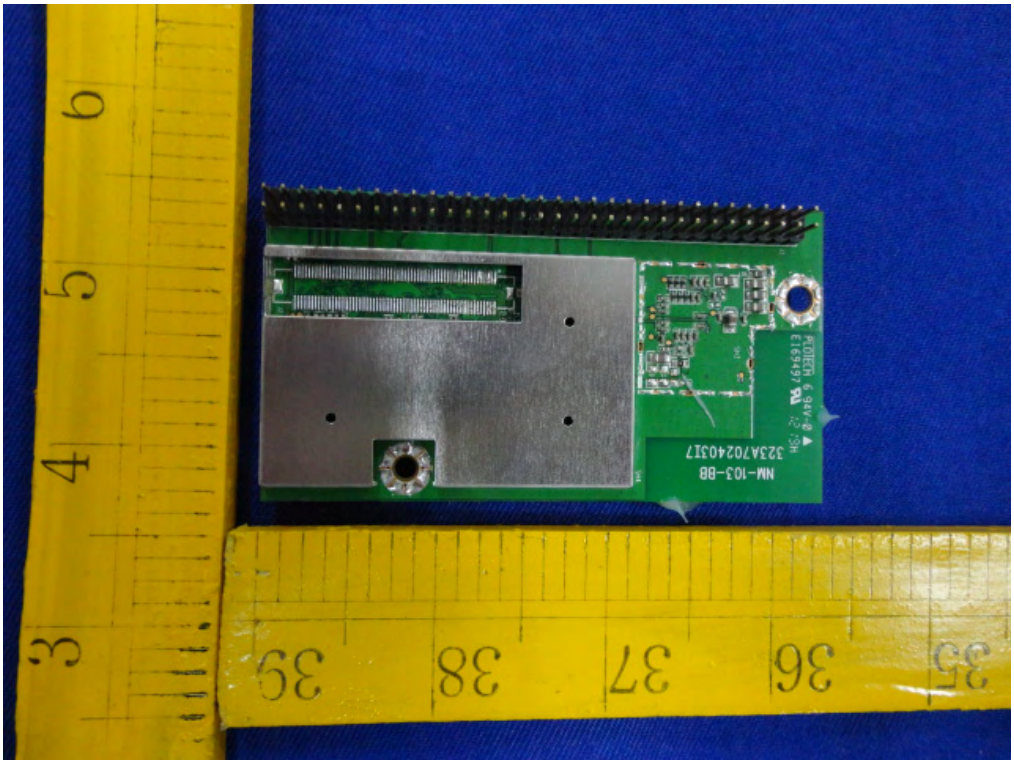
Internal Photos

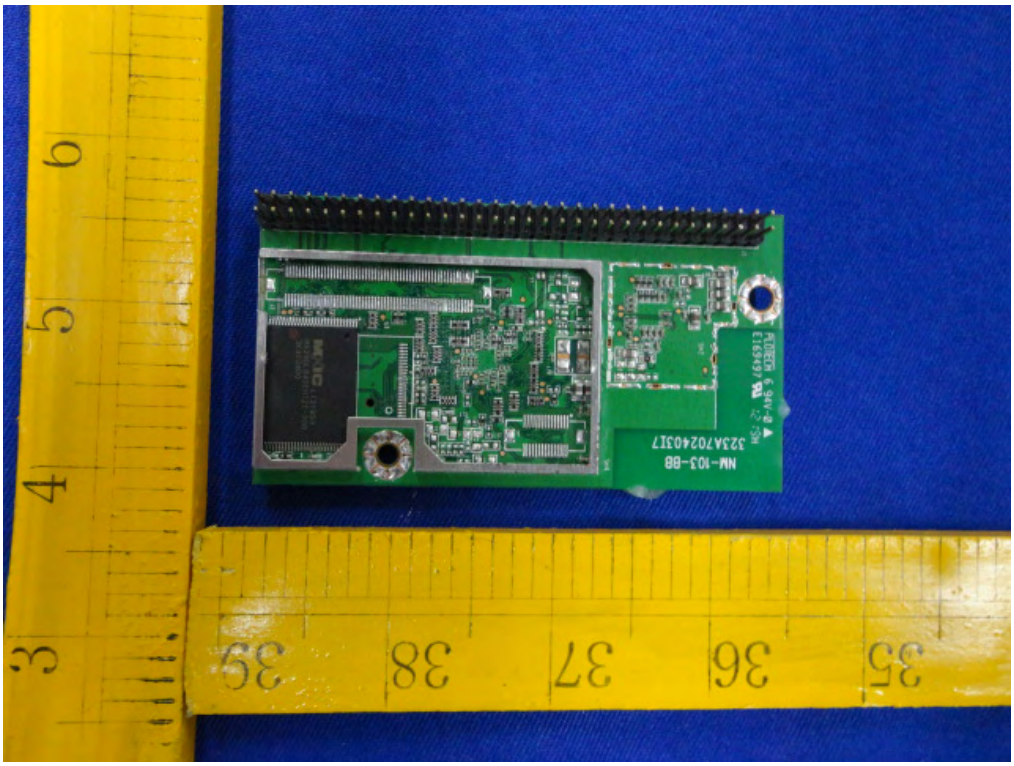
Internal Photos



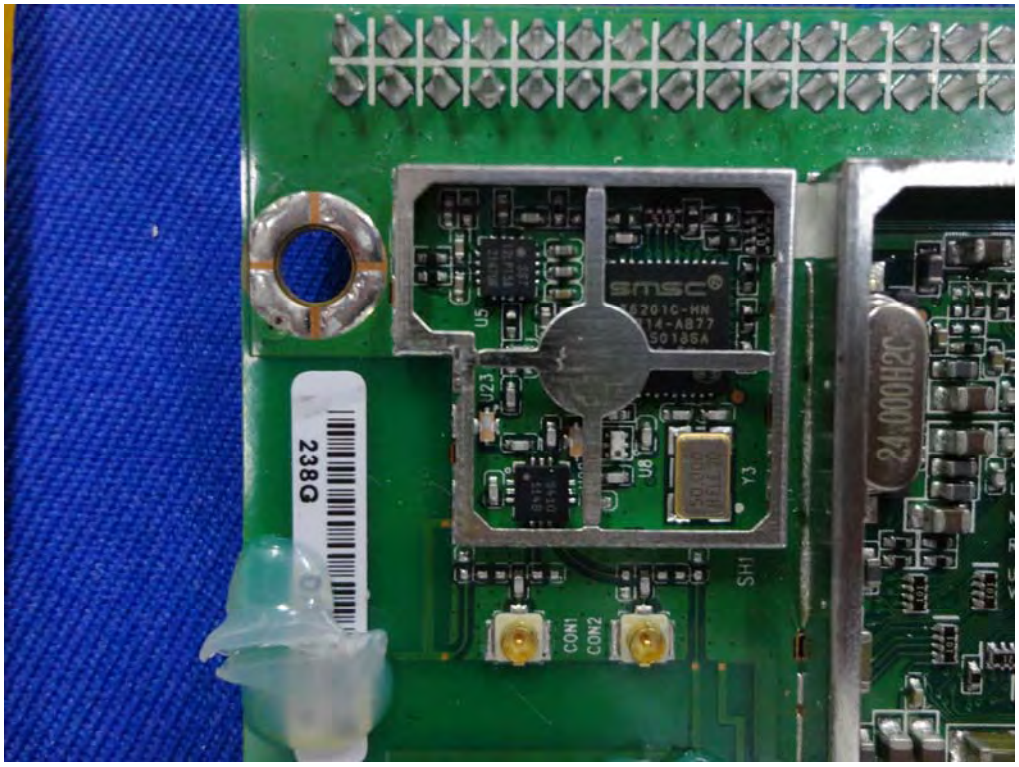


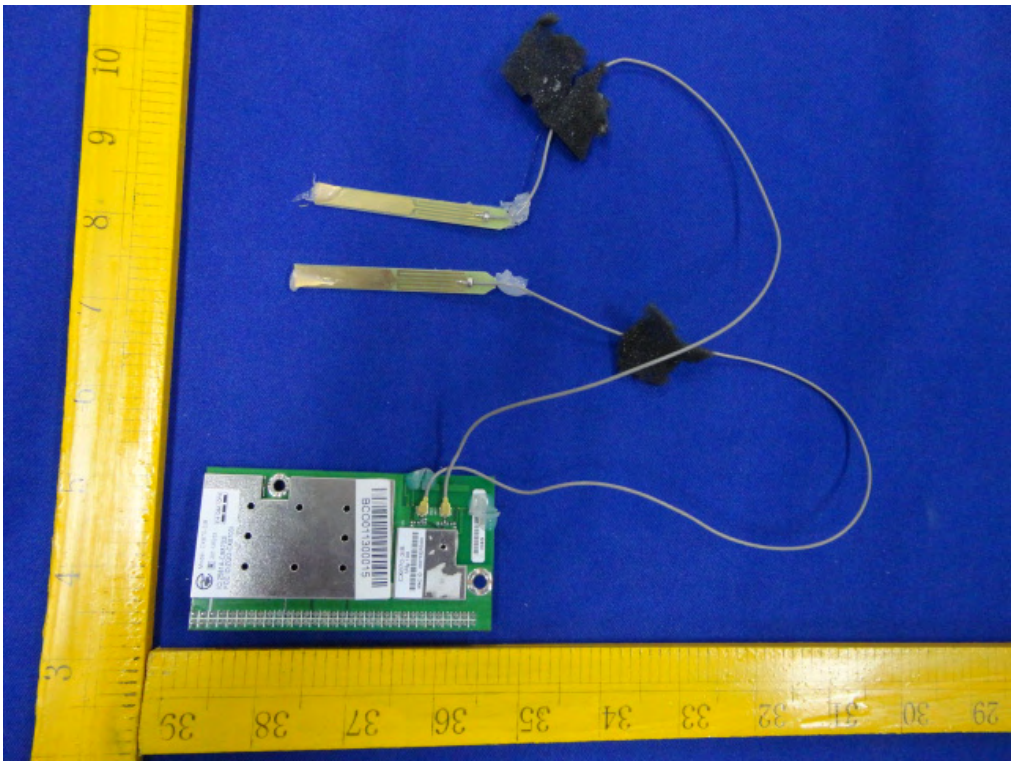
Internal Photos





Internal Photos





Internal Photos