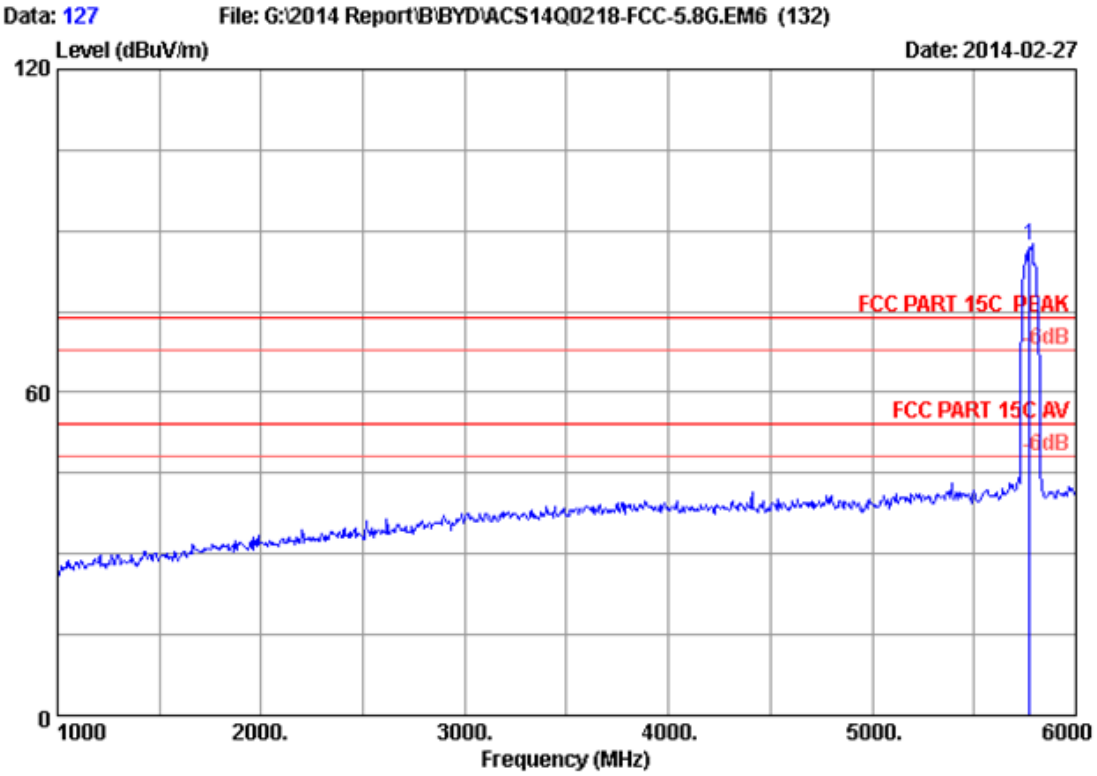


Site no. : 3m Chamber Data no. : 127
Dis. / Ant. : 3m 2013 3115 (4580) Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK
Env. / Ins. : 24*C/56% Engineer : Leo-Li
EUT : Notebook
Power Rating : DC 19V From Adapter Input AC 120V/60Hz
Test Mode : IEEE802.11ac VHT80 CH155 5775MHz Tx
M/N : RZ09-0116

No.	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	5775.000	34.11	9.58	35.70	79.36	87.35	74.00	-13.35	Peak

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

5. CONDUCTED SPURIOUS EMISSIONS

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 13	1 Year
2.	Attenuator	Agilent	8491B	MY39262165	May.08,13	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28618/2	May.08,13	1Year

5.2.Limit

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

5.3.Test Procedure

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

5.4.Test result

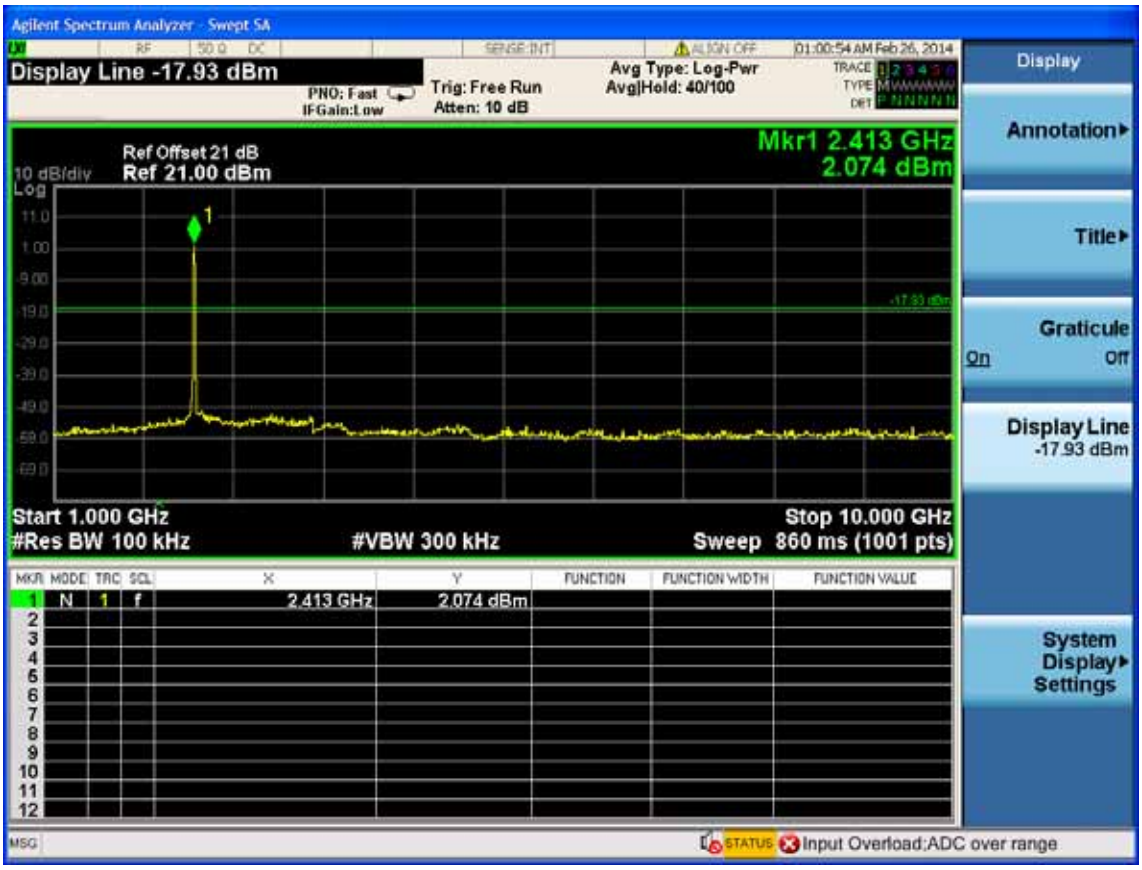
PASS (The testing data was attached in the next pages.)

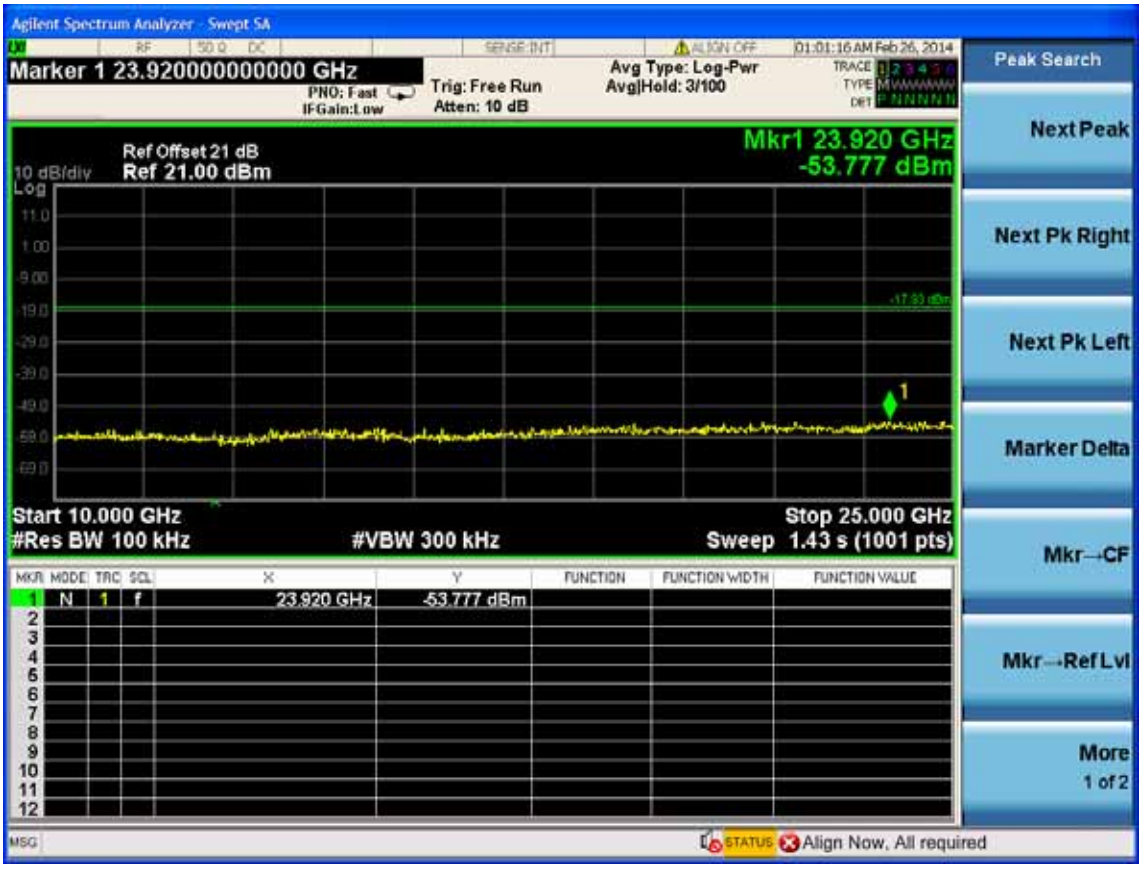
2.4G:

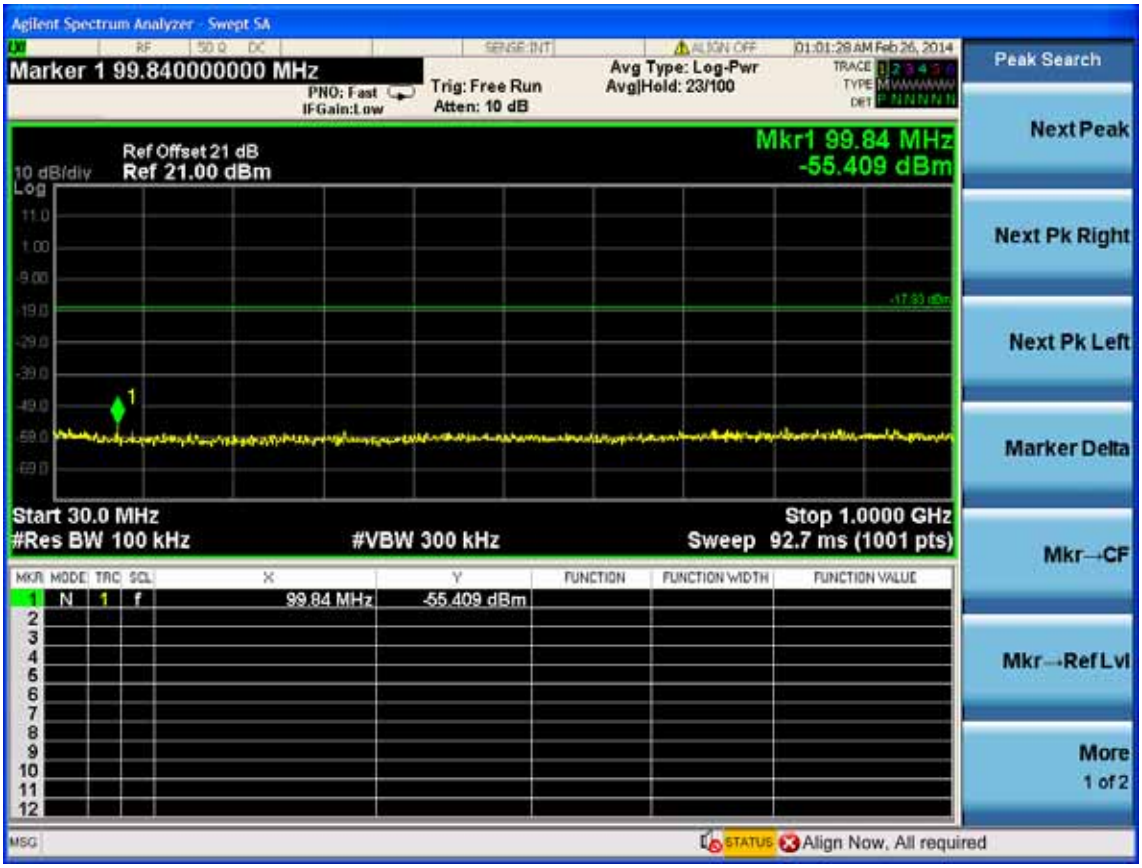
Chain A:

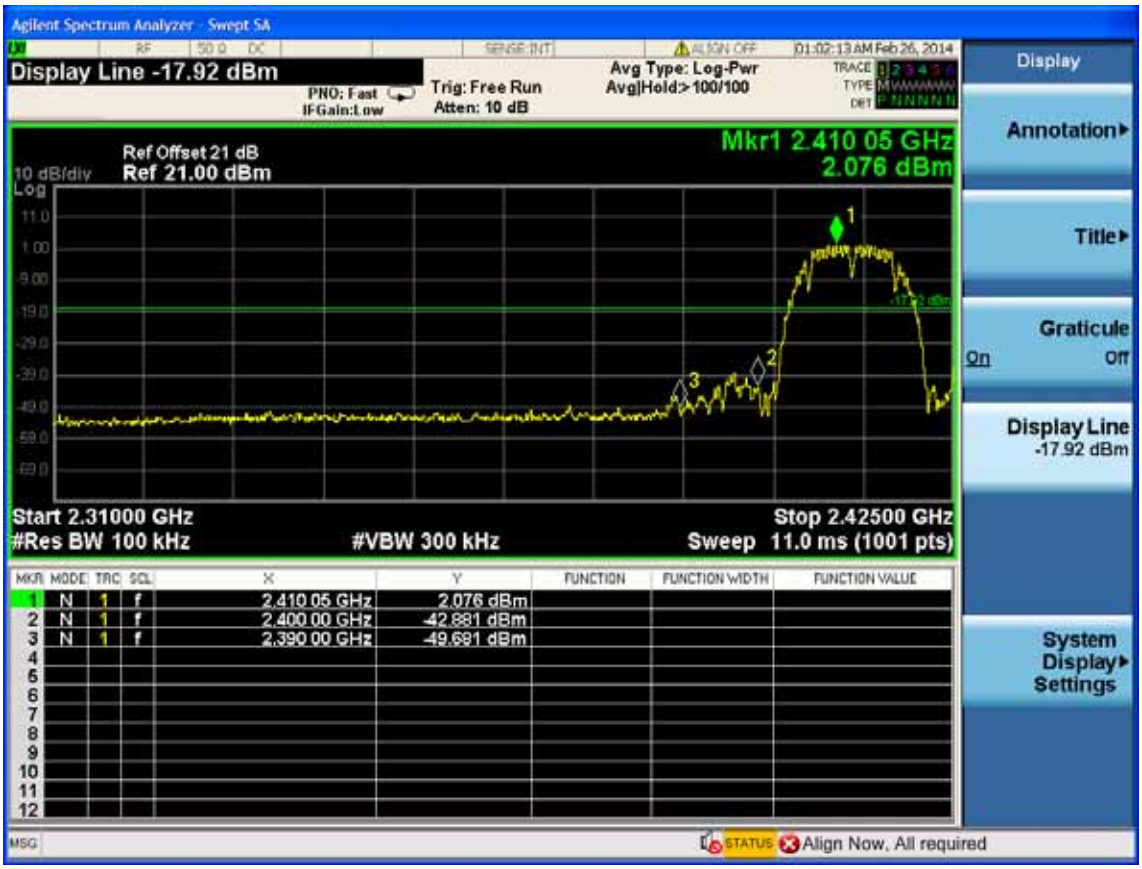
Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz

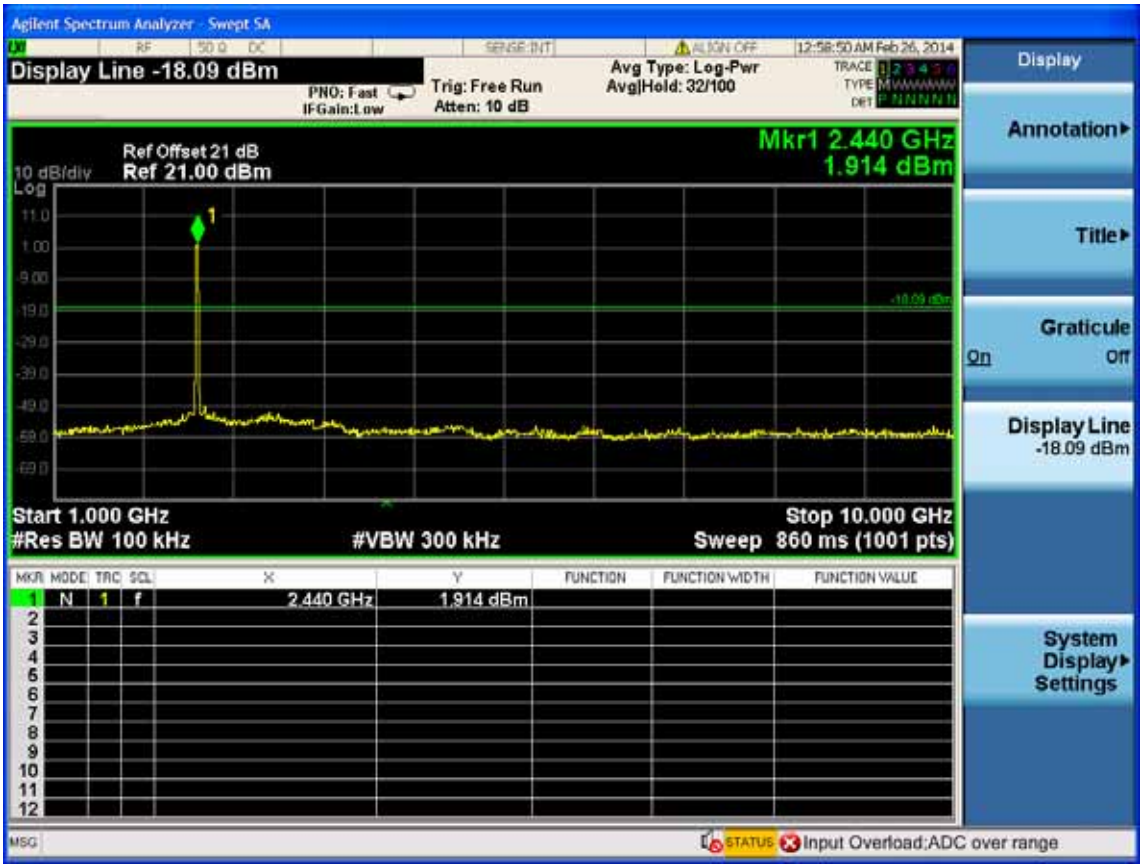


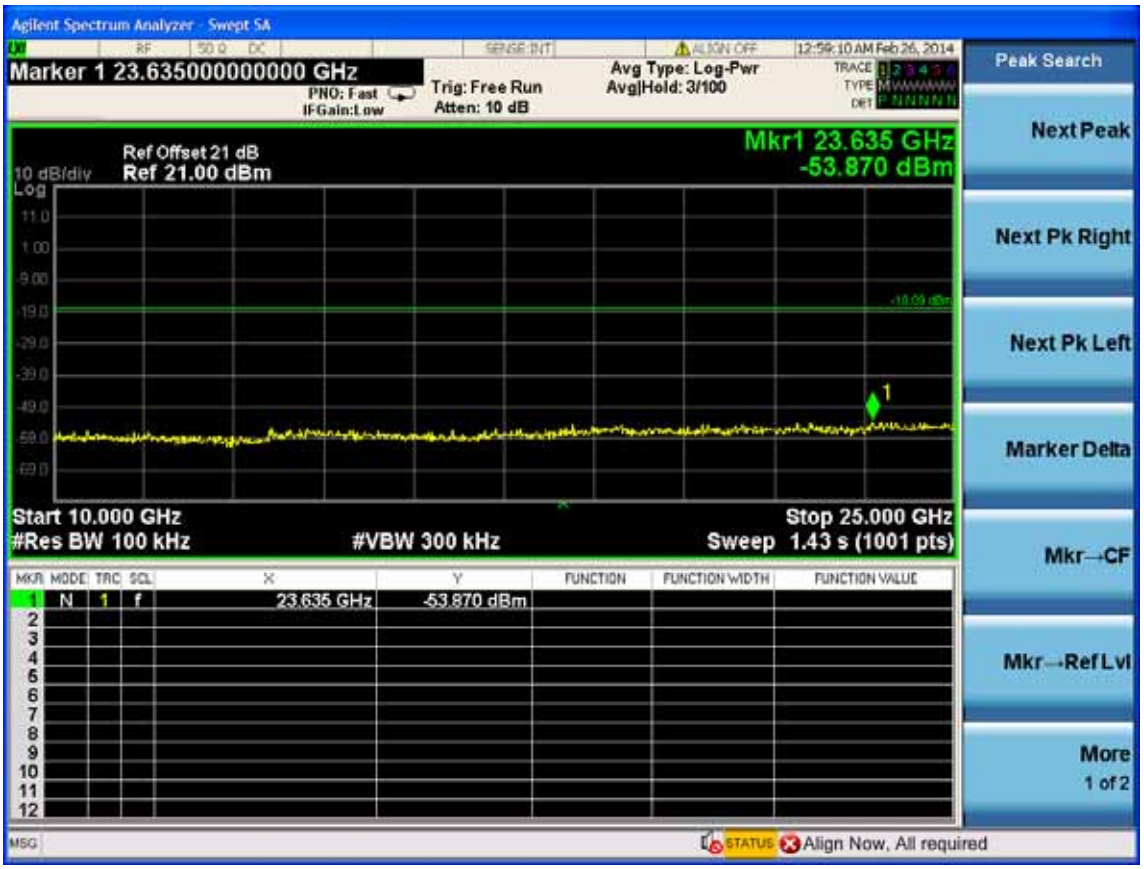


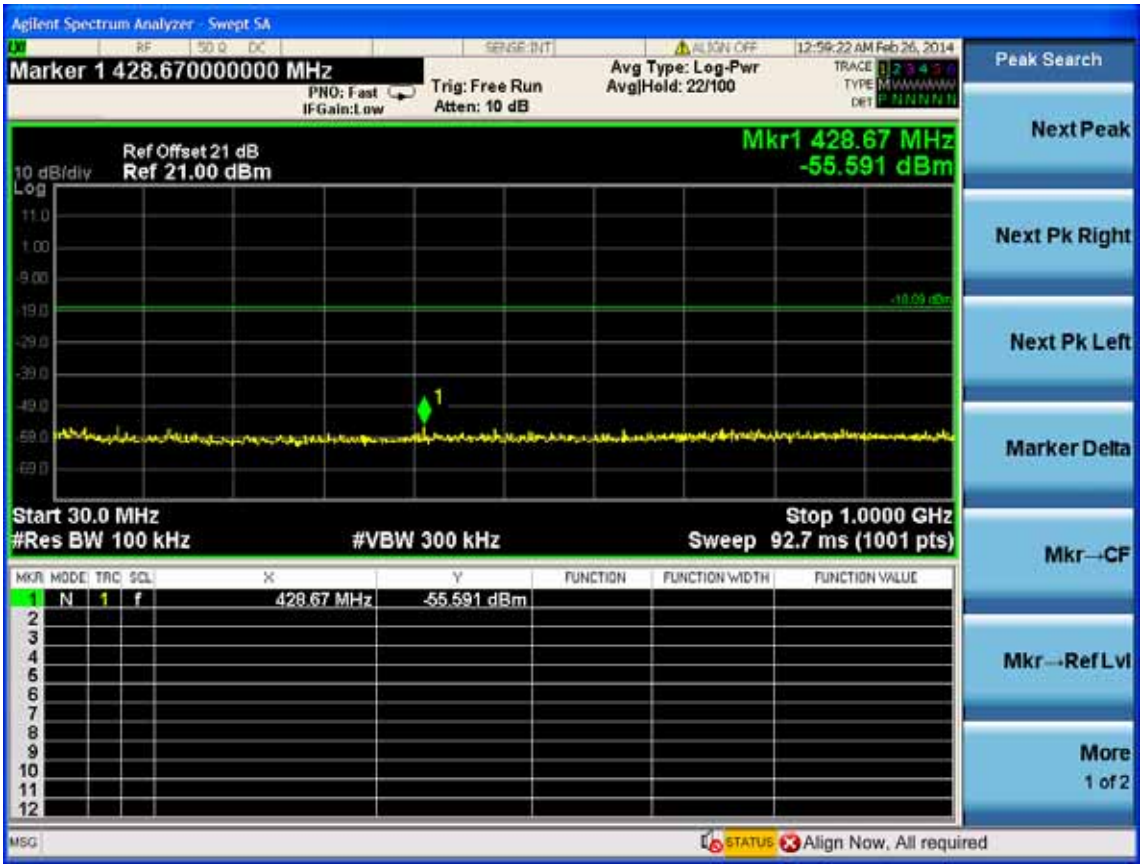

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 23/100
01:01:28 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-55.409 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -55.409 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Display Line -17.92 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
01:02:13 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 2.410 05 GHz
2.076 dBm
Start 2.31000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.42500 GHz
Sweep 11.0 ms (1001 pts)
1 N 1 f 2.410 05 GHz 2.076 dBm
2 N 1 f 2.400 00 GHz -42.881 dBm
3 N 1 f 2.390 00 GHz -49.681 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-17.92 dBm
System
Display
Settings
Align Now, All required

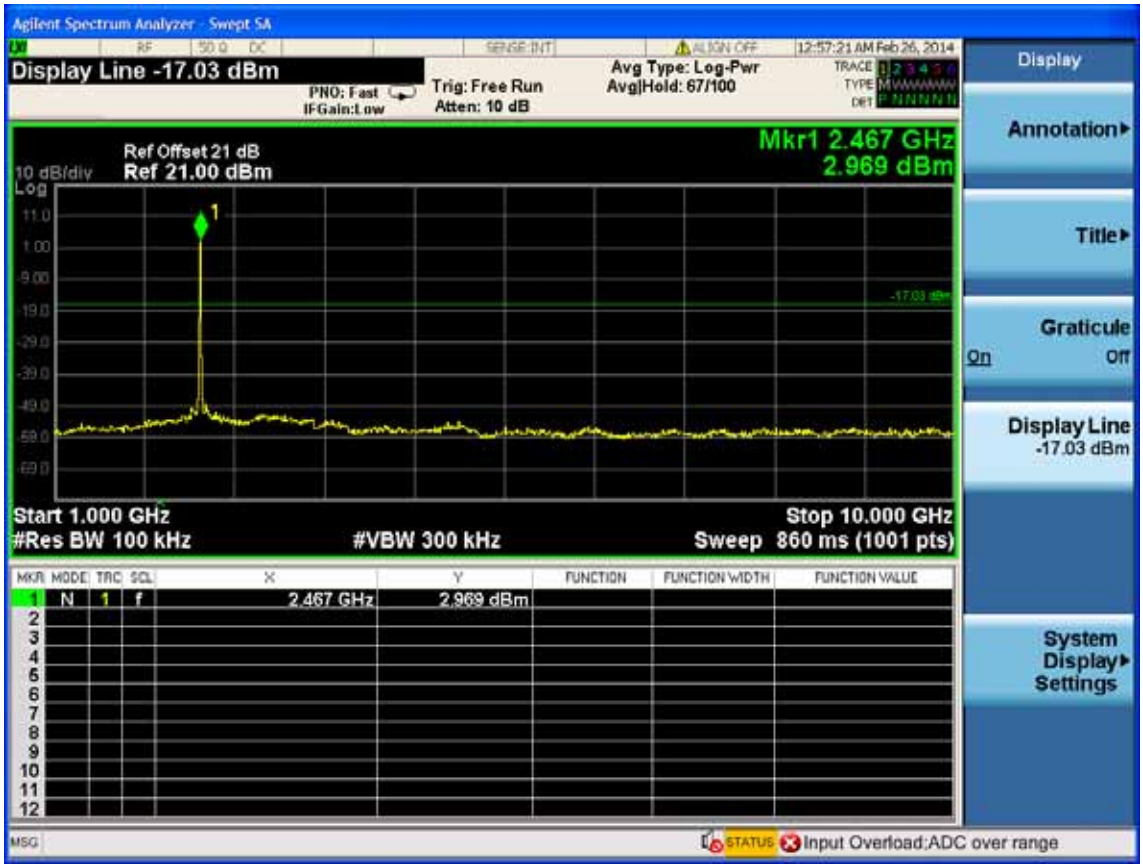
Test CH6: 2437MHz

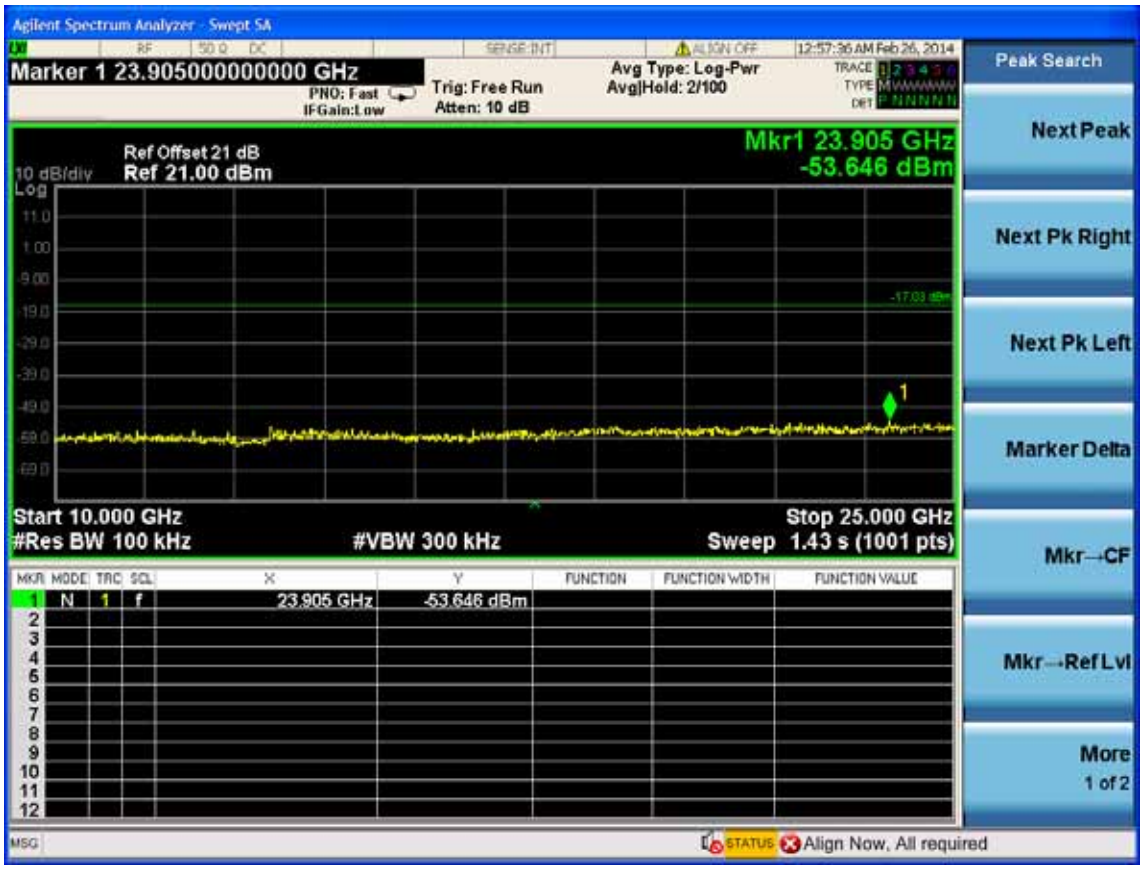


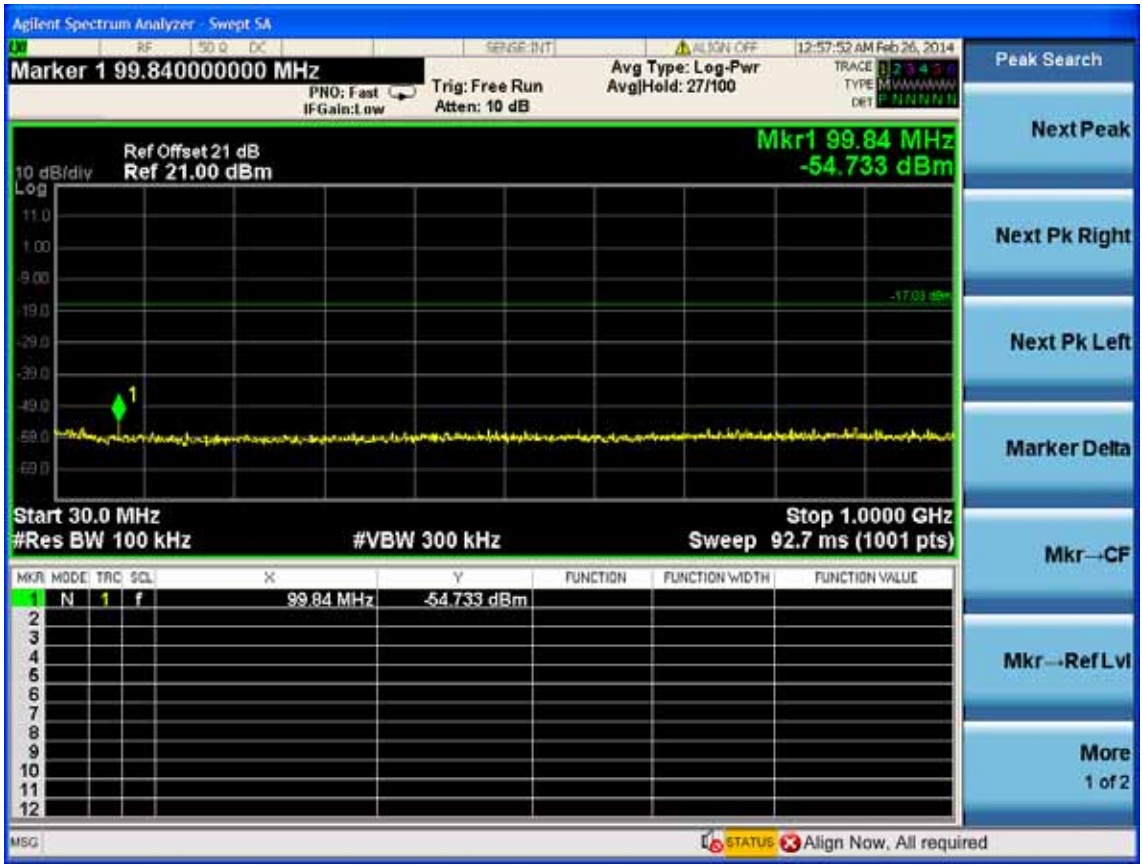




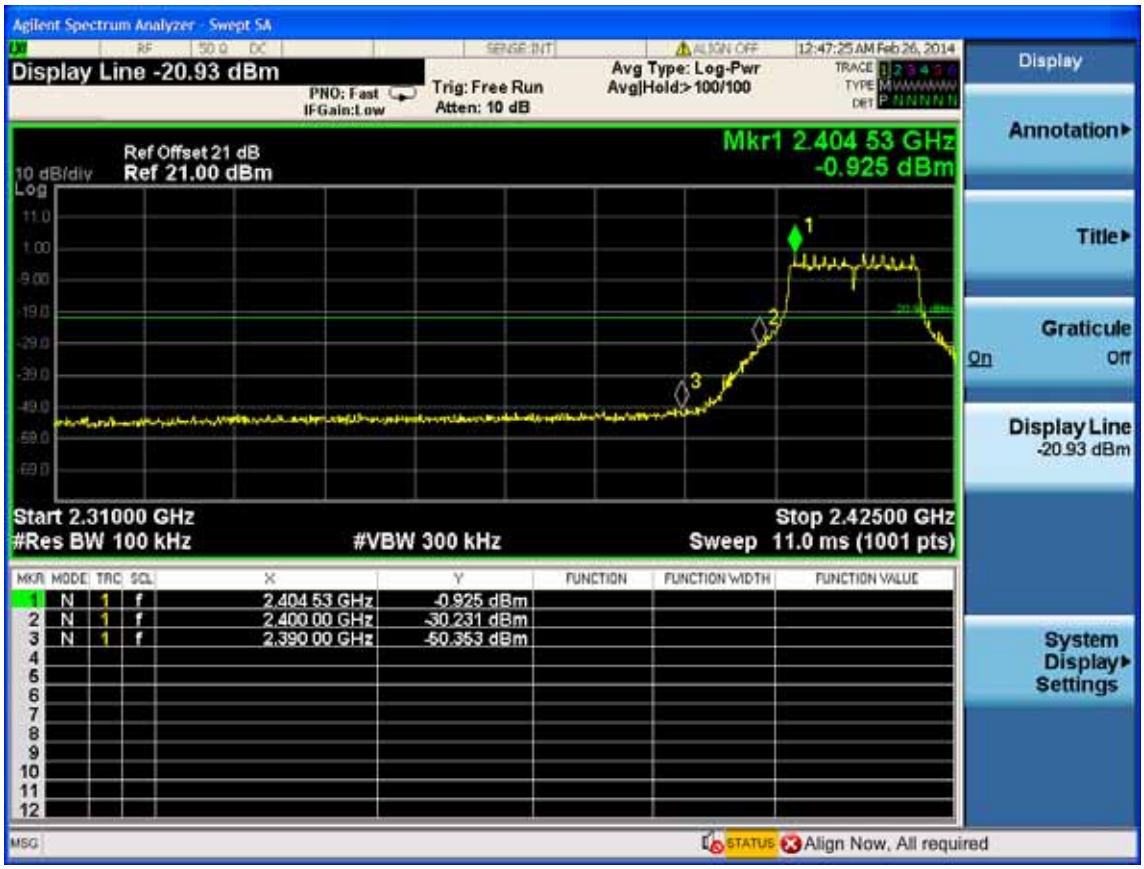
Test CH11: 2462MHz

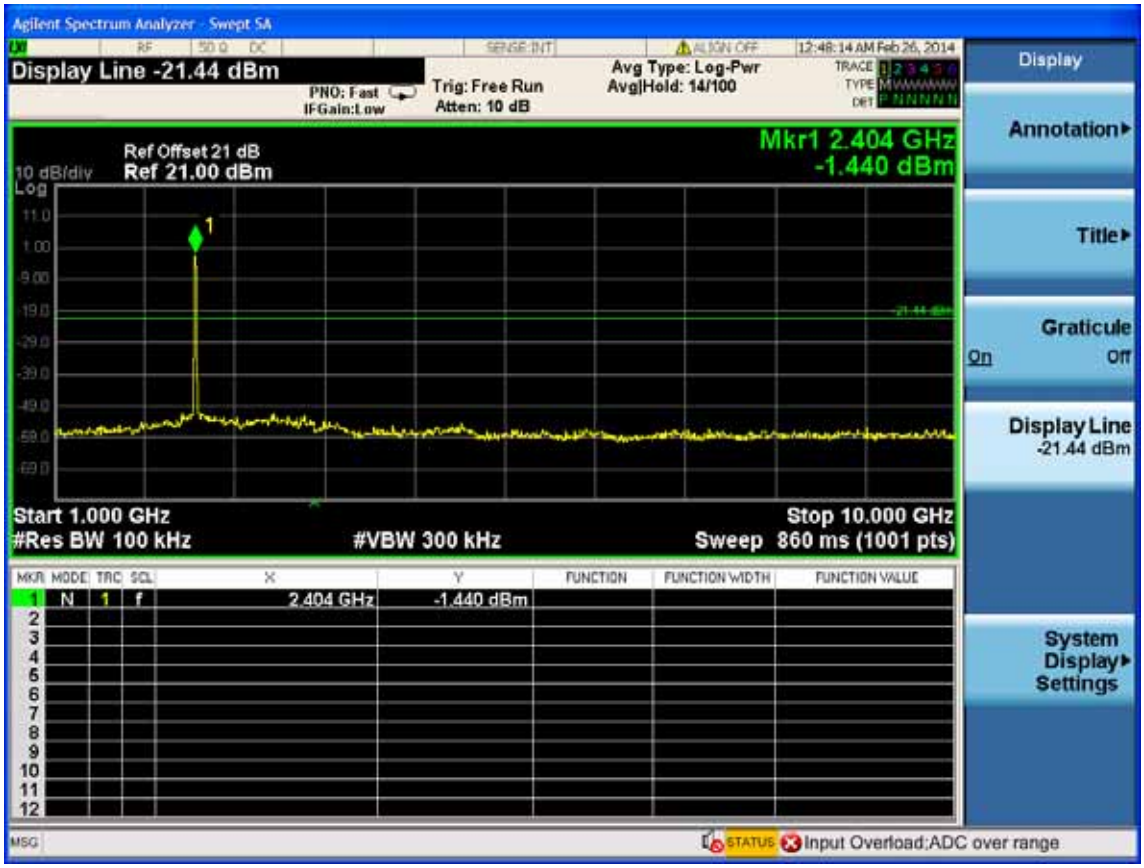

Agilent Spectrum Analyzer - Swept SA
Display Line -17.03 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 67/100
12:57:21 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 2.467 GHz
2.969 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 860 ms (1001 pts)
1 N 1 f 2.467 GHz 2.969 dBm
Input Overload;ADC over range
Display
Annotation
Title
Graticule
On Off
Display Line
-17.03 dBm
System
Display
Settings

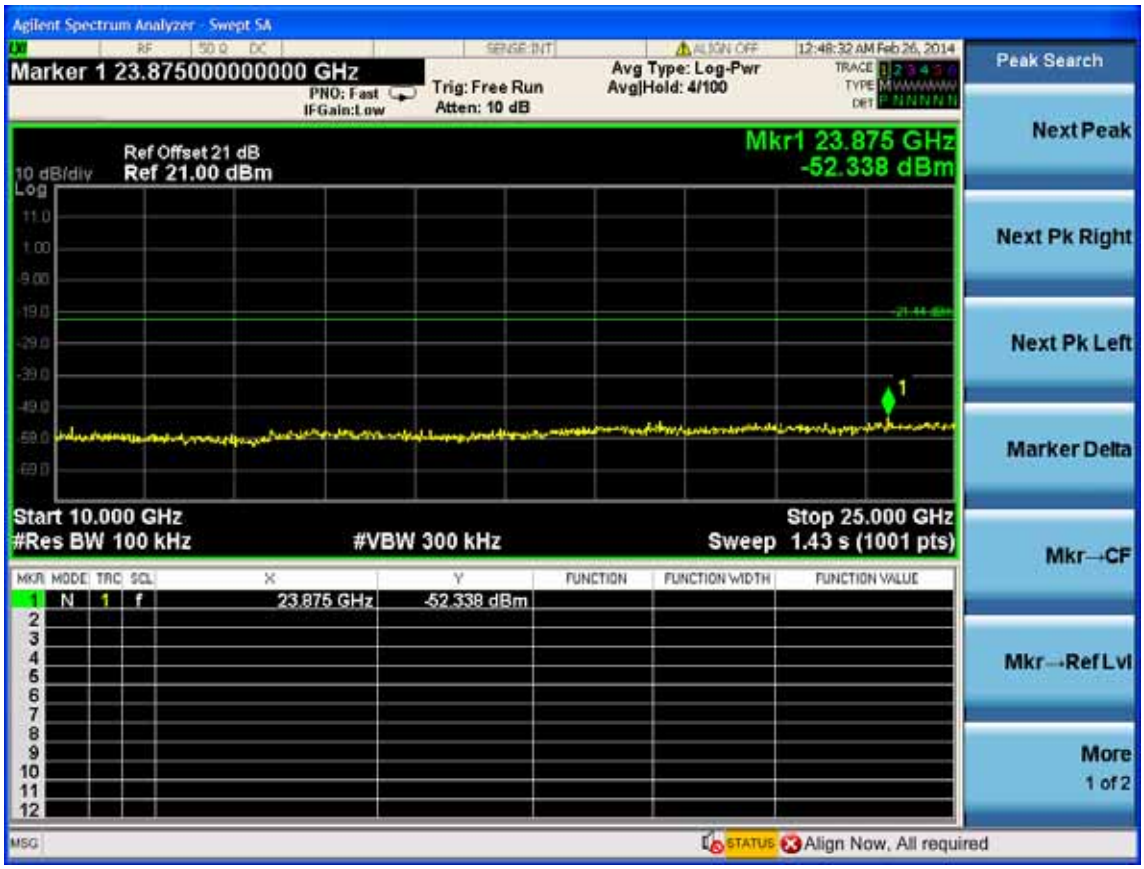

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.905000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 2/100
12:57:36 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 23.905 GHz
-53.646 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.905 GHz -53.646 dBm
Align Now, All required
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

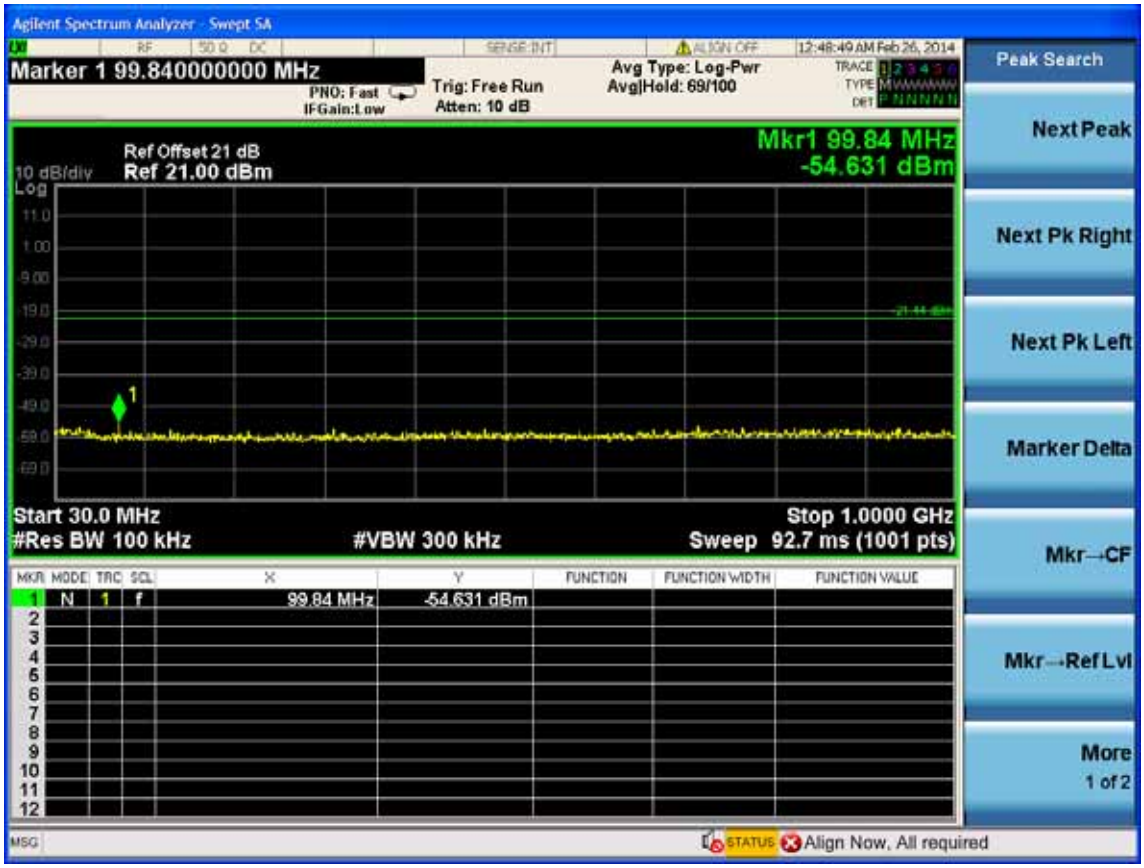


Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz

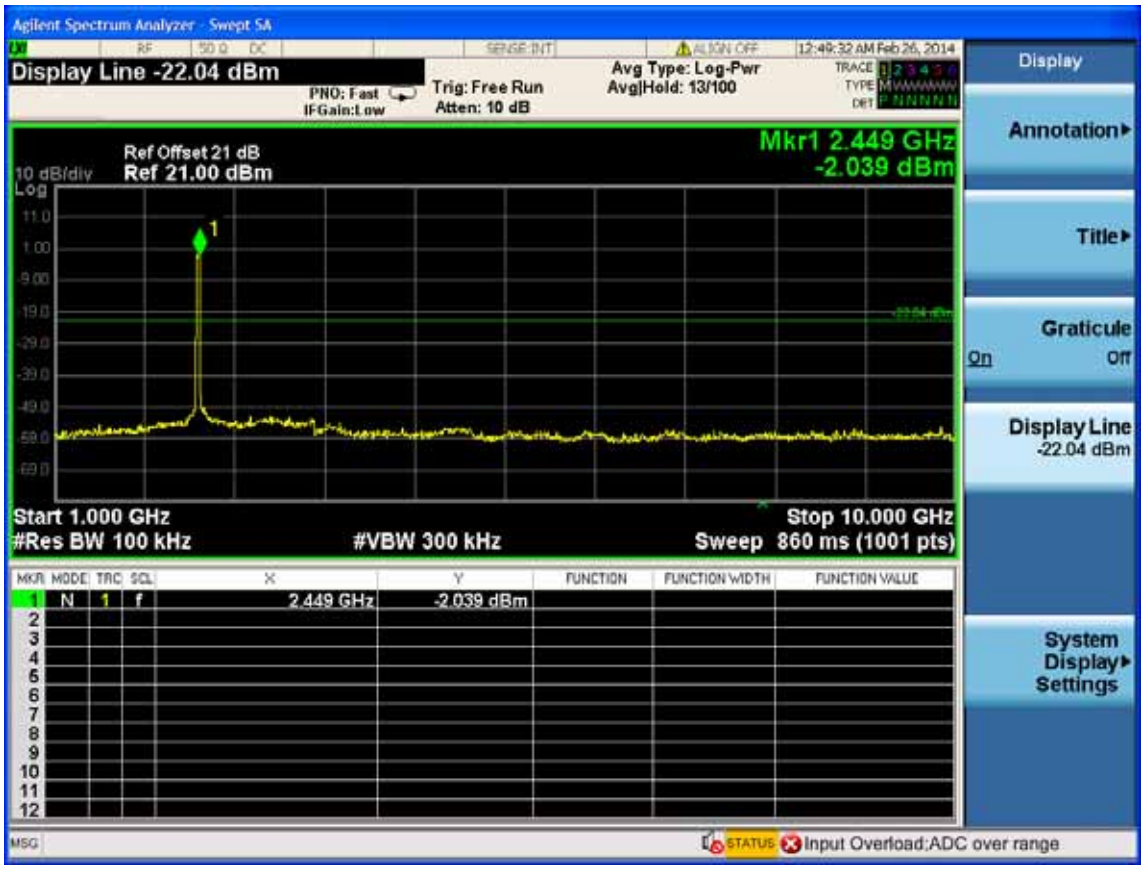


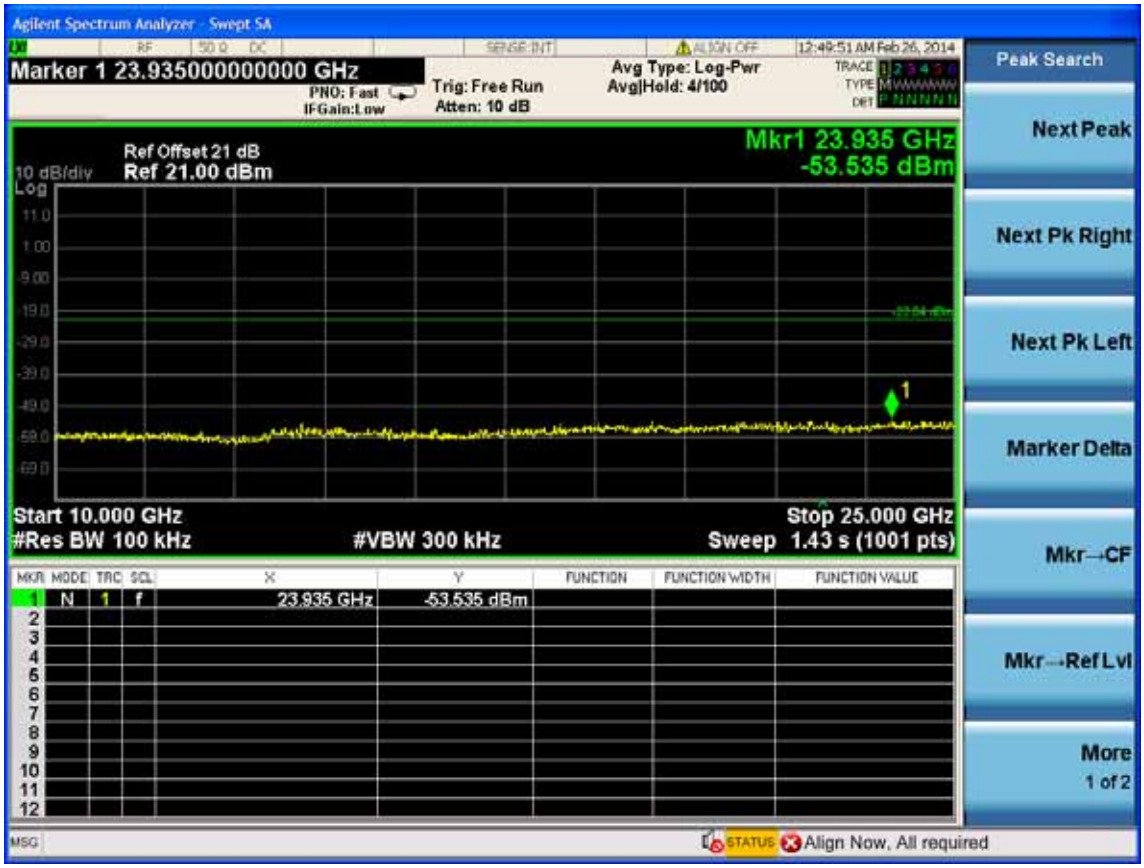

Agilent Spectrum Analyzer - Swept SA
Display Line -21.44 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 14/100
12:48:14 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 2.404 GHz
-1.440 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 860 ms (1001 pts)
1 N 1 f 2.404 GHz -1.440 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-21.44 dBm
System Display Settings
Input Overload;ADC over range

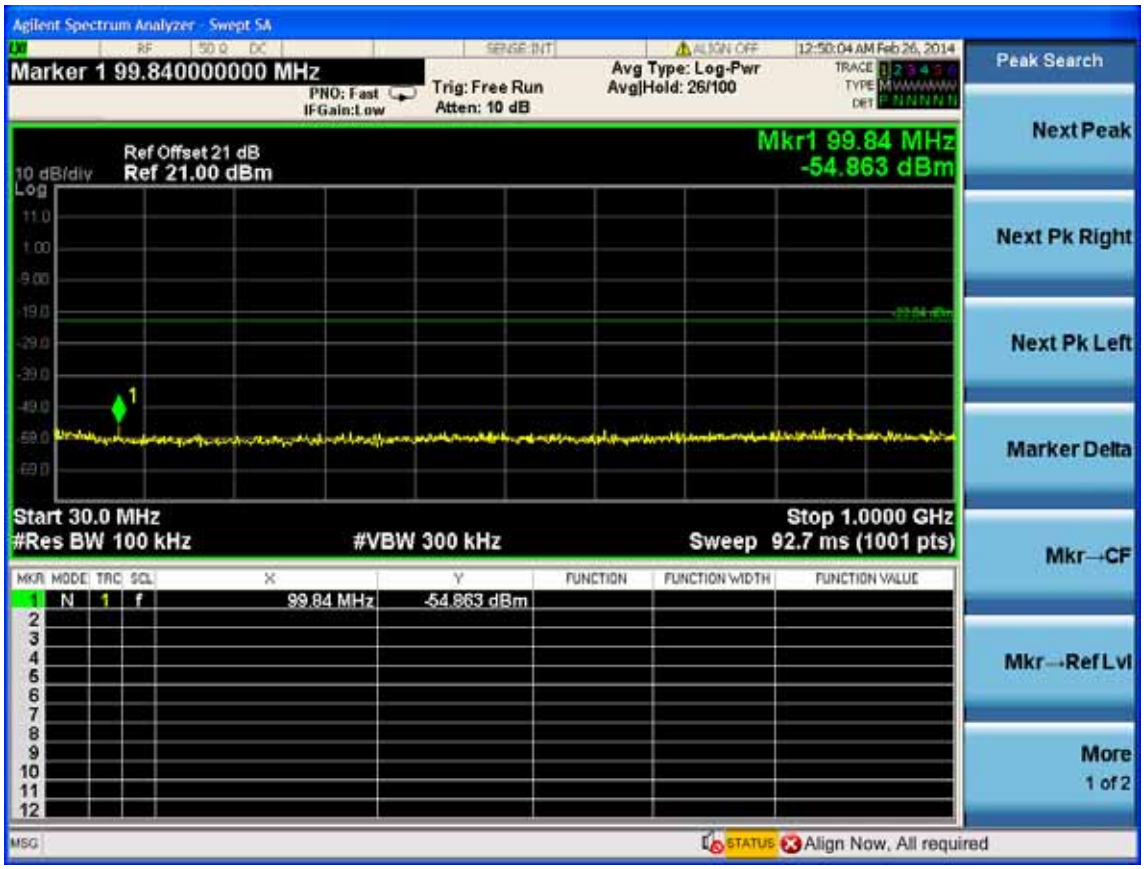

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.875000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 4/100
12:48:32 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 23.875 GHz
-52.338 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.875 GHz -52.338 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required



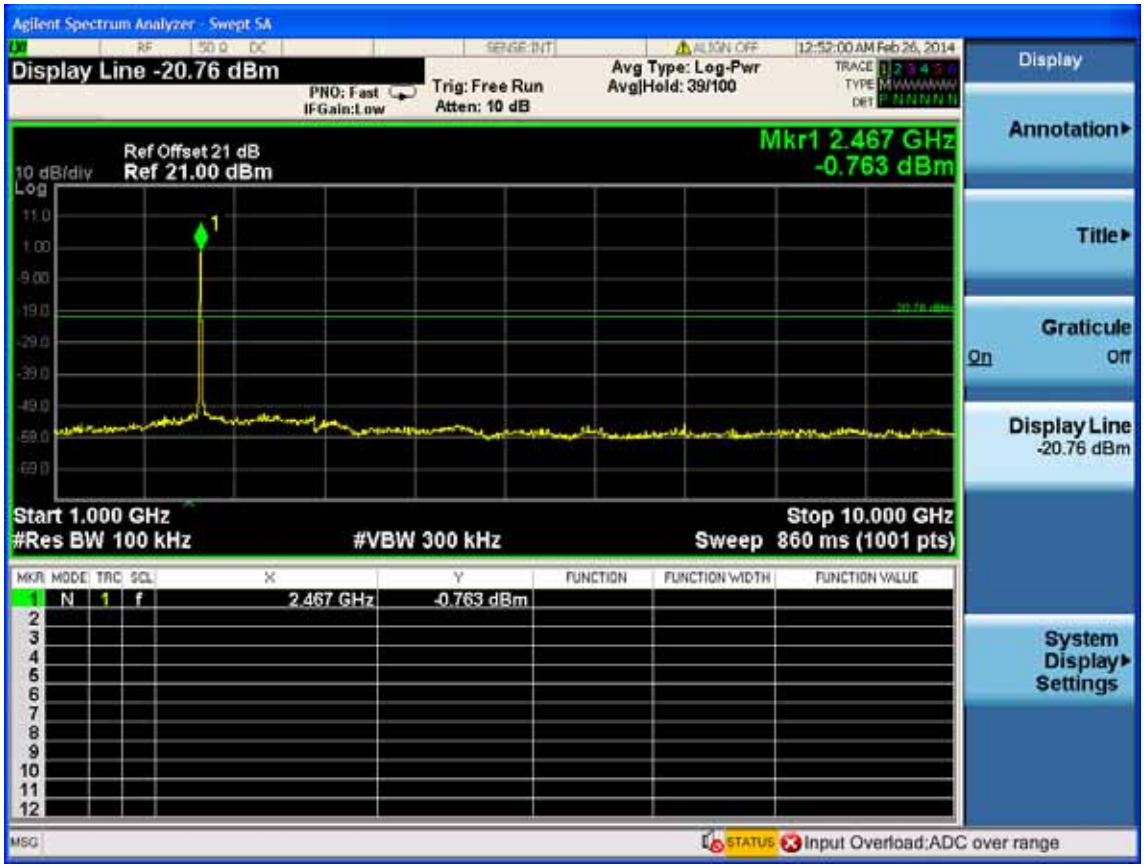
Test CH6: 2437MHz

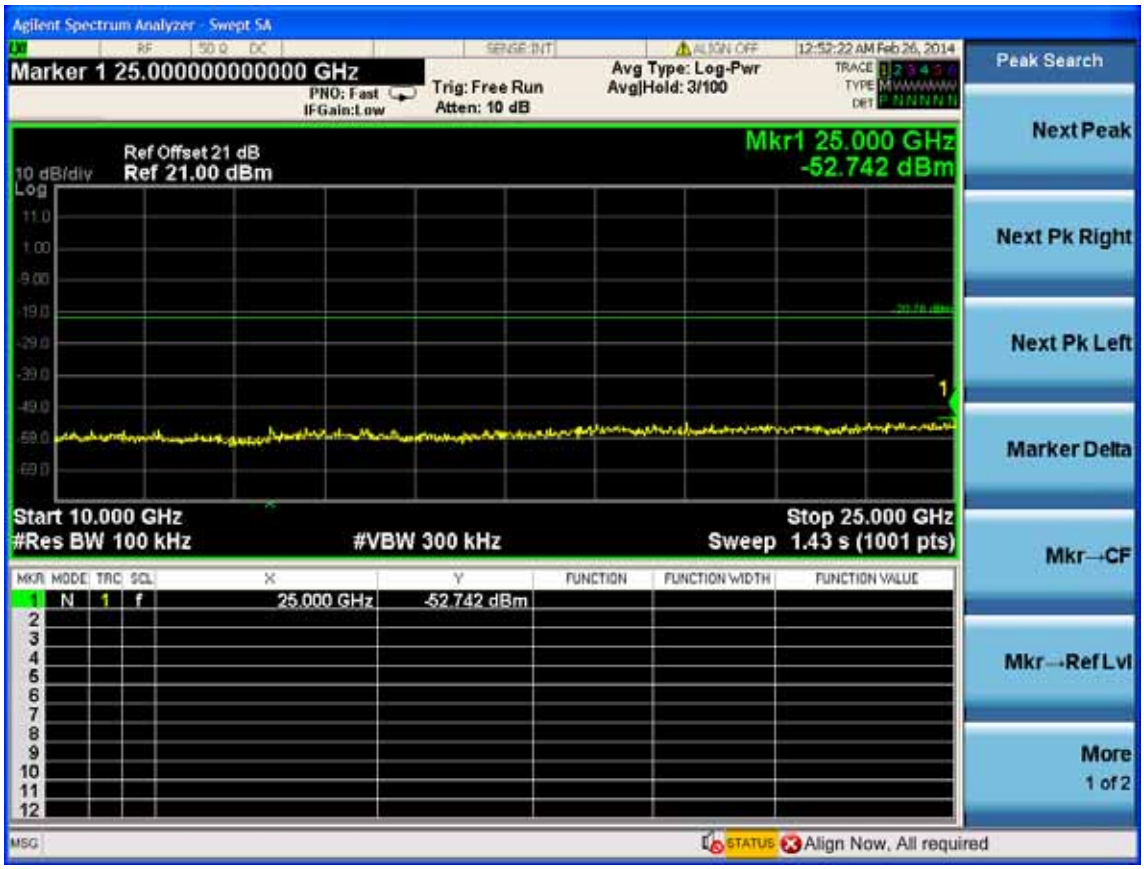


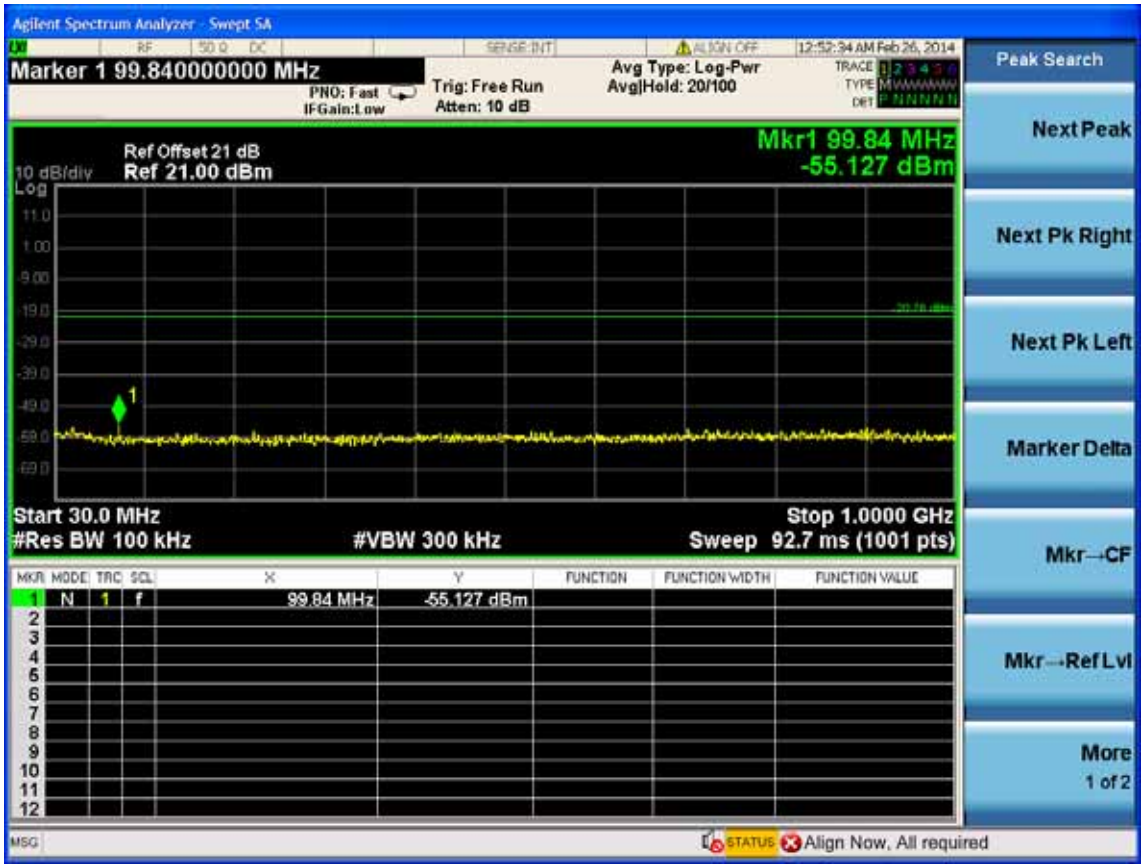

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.935000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 4/100
12:49:51 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 23.935 GHz
-53.535 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.935 GHz -53.535 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 26/100
12:50:04 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 99.84 MHz
-54.863 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -54.863 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

Test CH11: 2462MHz

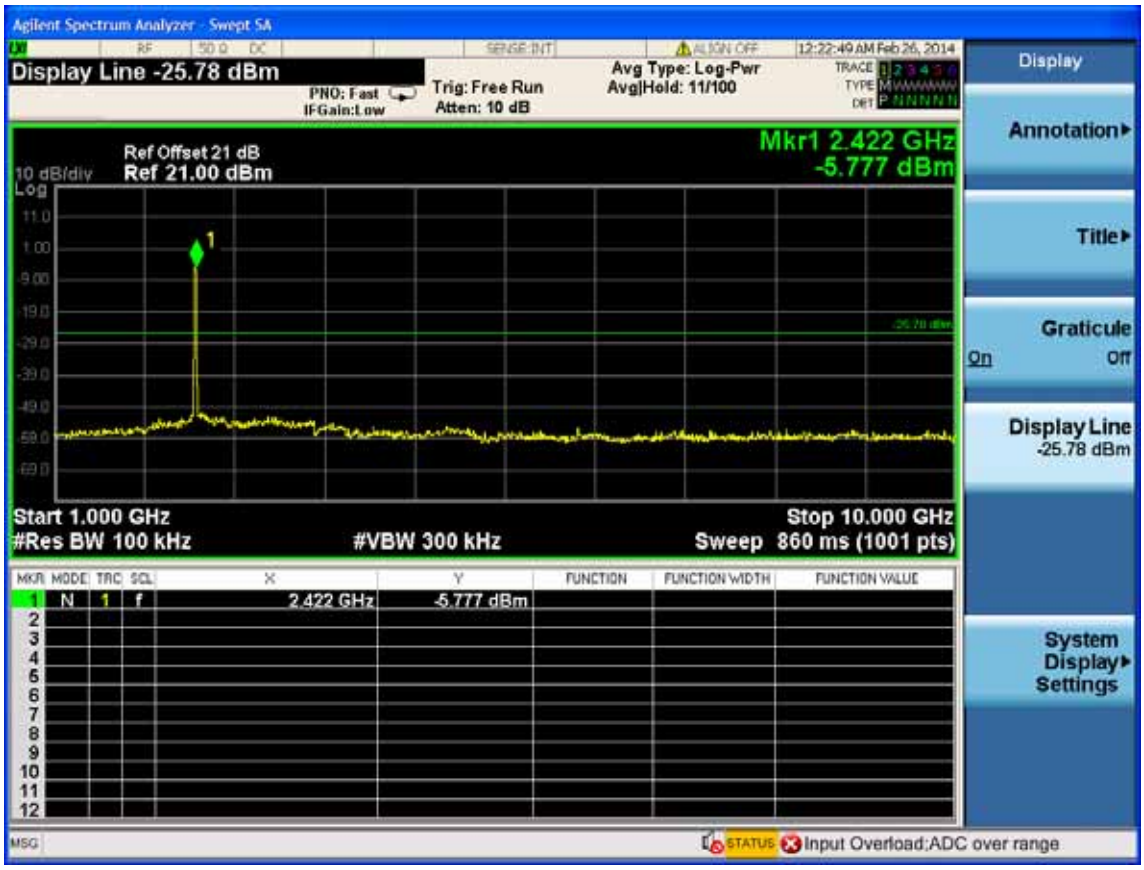


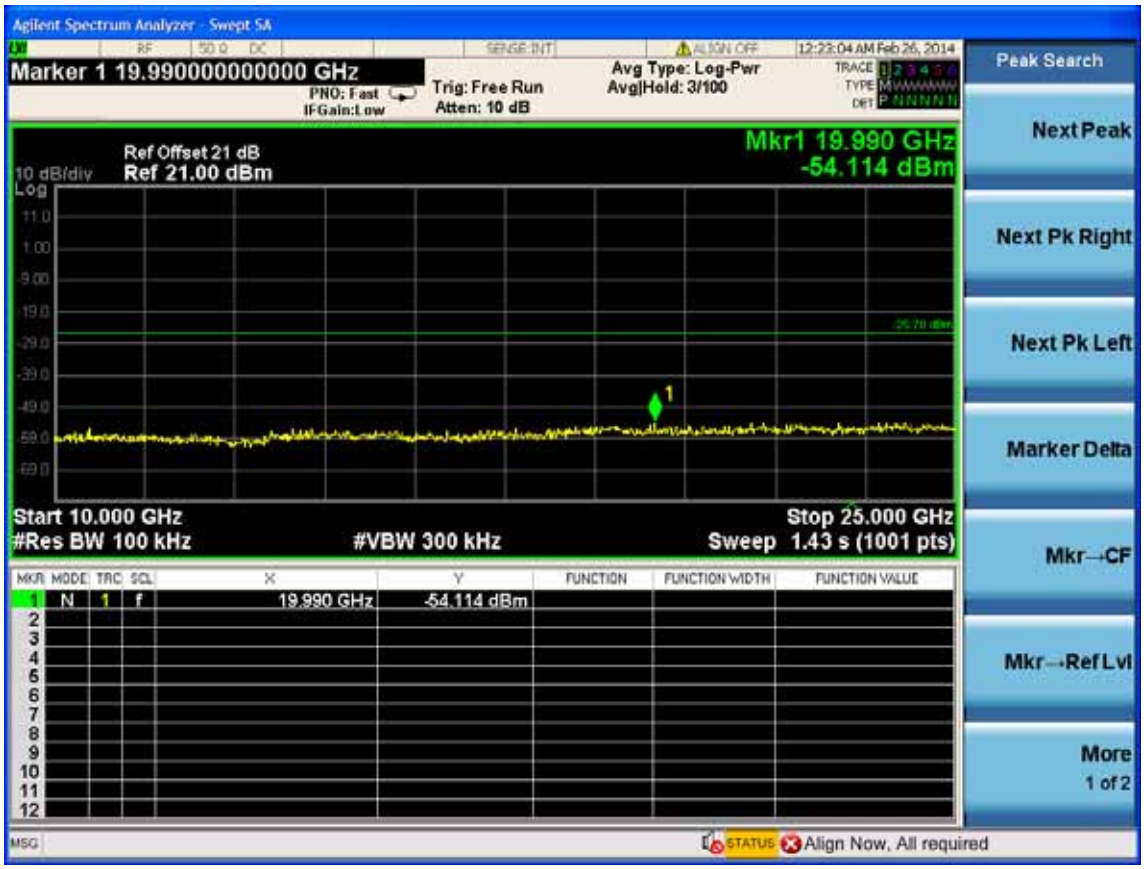


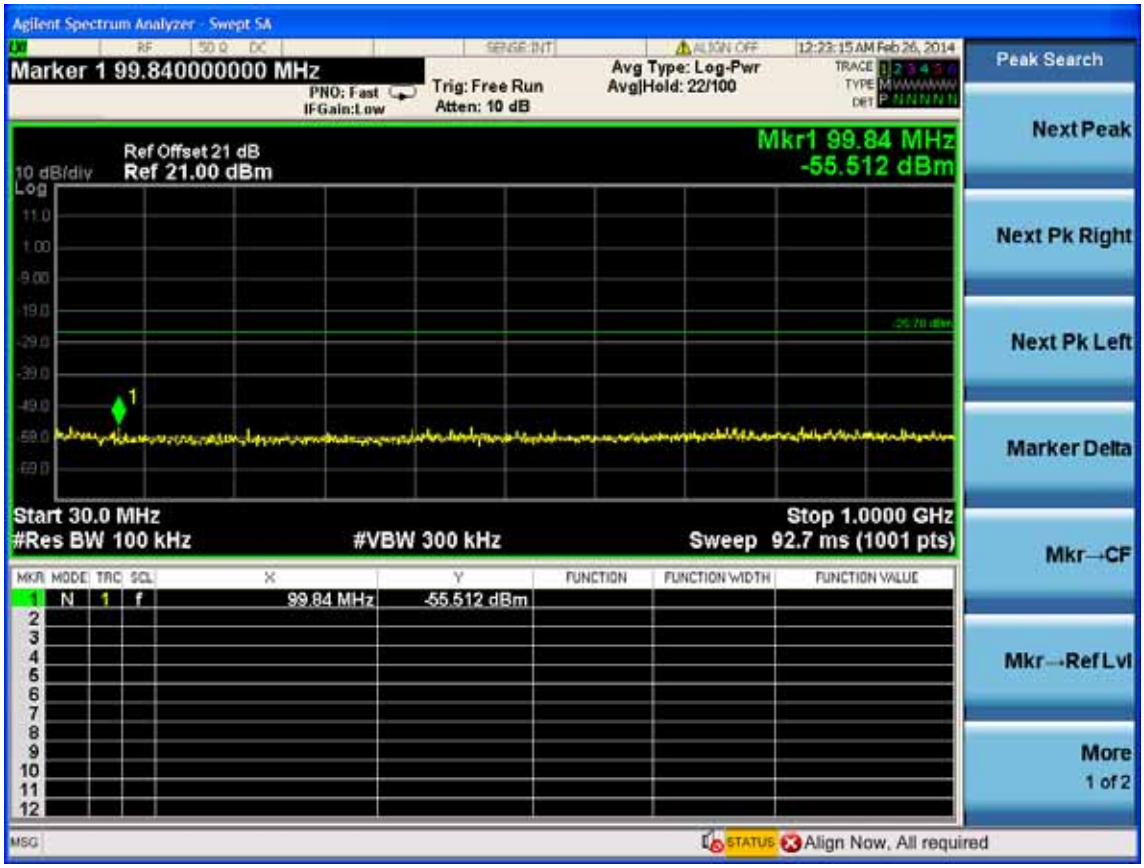

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 20/100
12:52:34 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-55.127 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -55.127 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

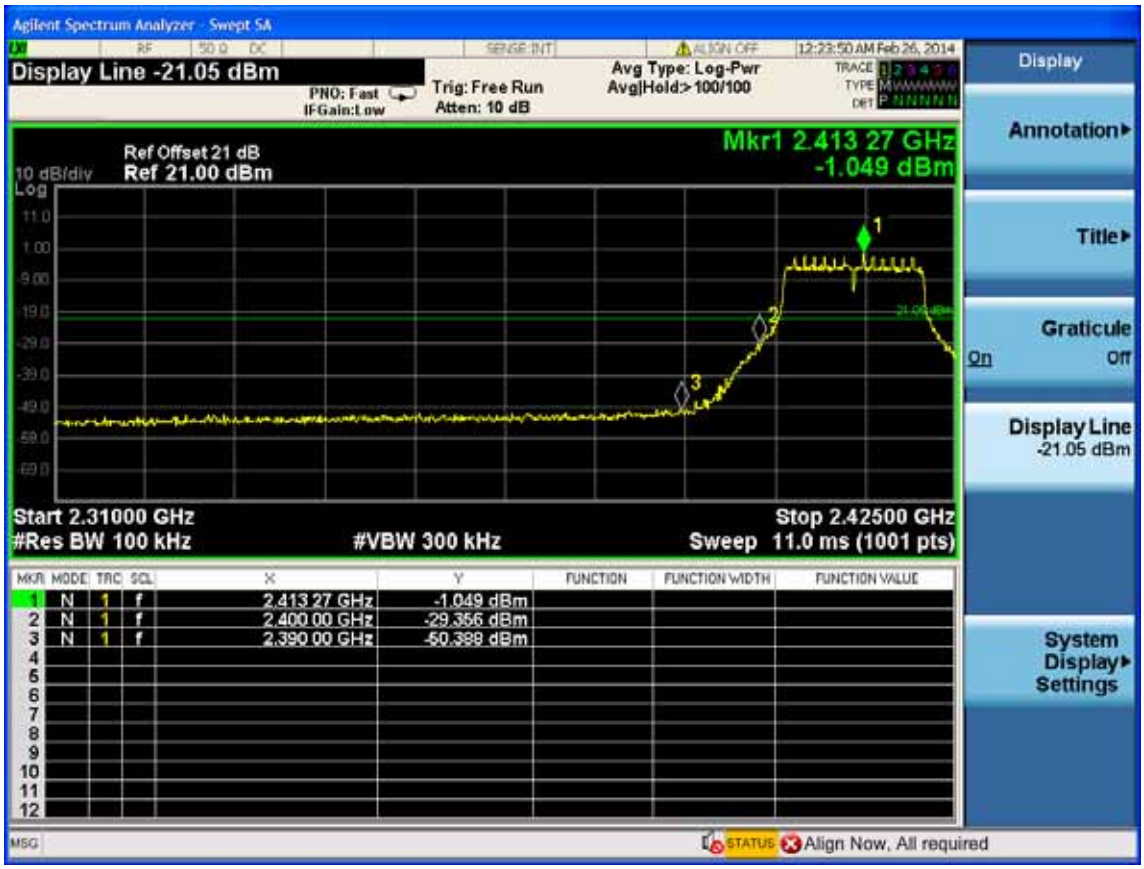

Agilent Spectrum Analyzer - Swept SA
Display Line -19.65 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
12:53:38 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 2.469 50 GHz
0.355 dBm
Start 2.45000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.51000 GHz
Sweep 5.80 ms (1001 pts)
1 N 1 f 2.469 50 GHz 0.355 dBm
2 N 1 f 2.483 50 GHz -49.101 dBm
3 N 1 f 2.500 00 GHz -51.603 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-19.65 dBm
System
Display
Settings
Align Now, All required

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

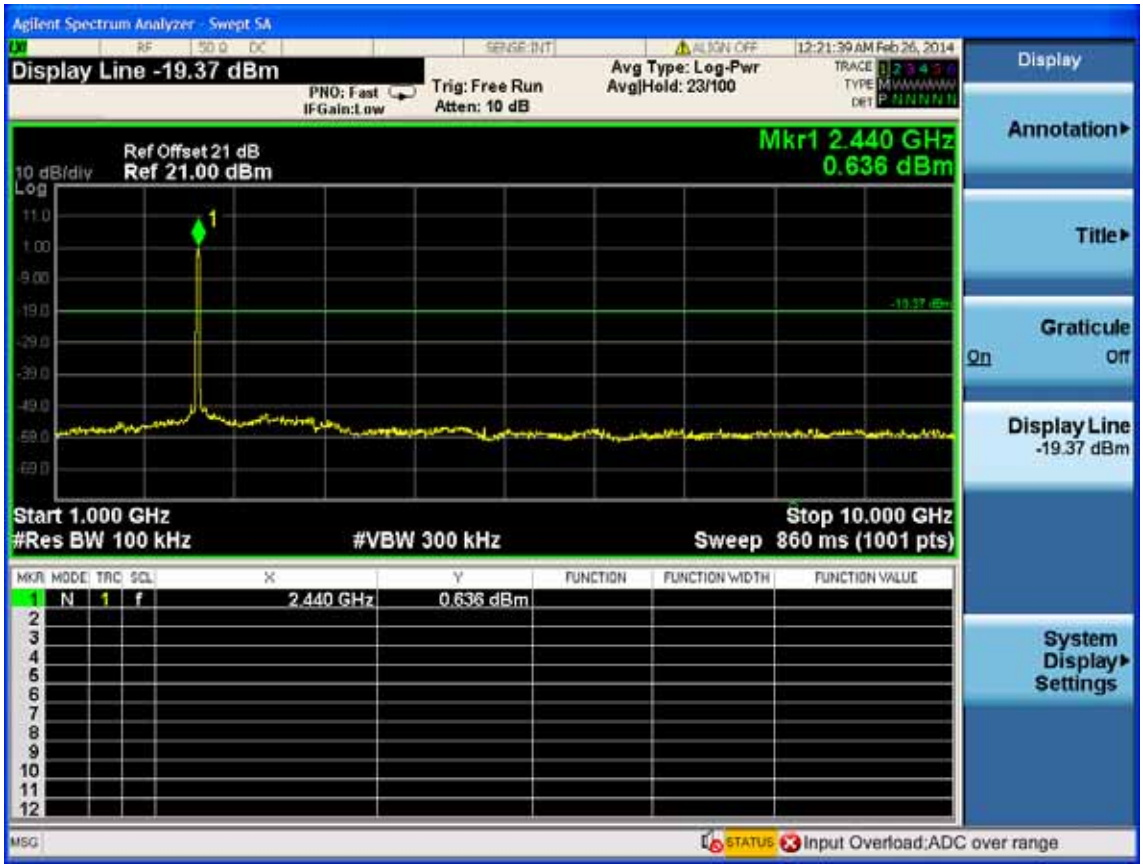


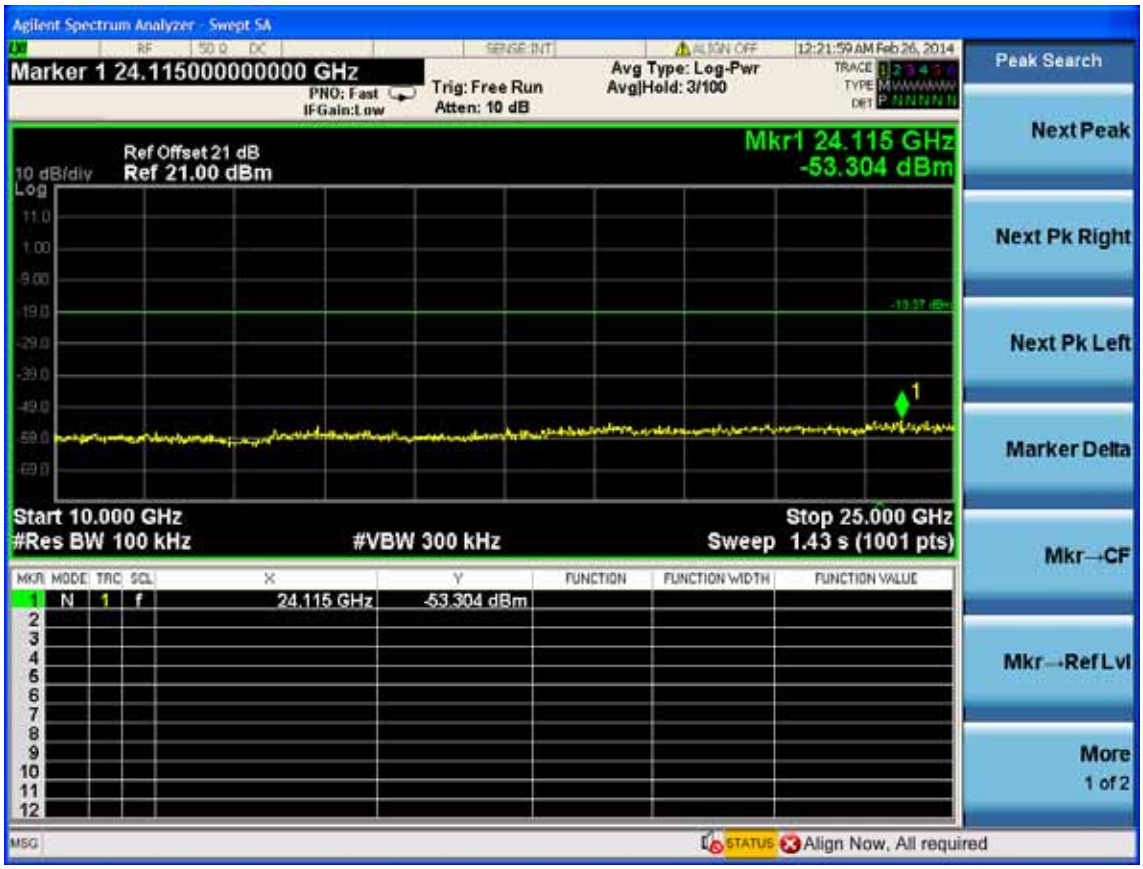


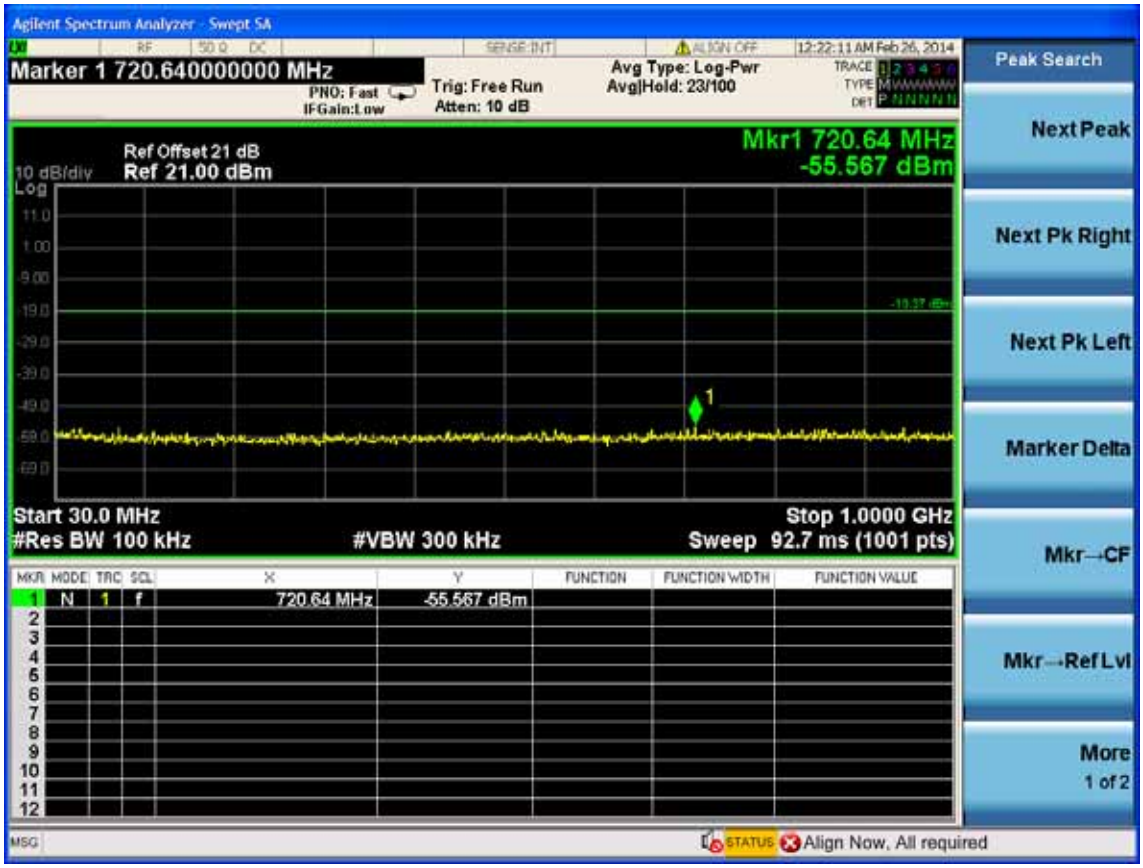

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
12:23:15 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-55.512 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -55.512 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Display Line -21.05 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
12:23:50 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 2.413 27 GHz
-1.049 dBm
Start 2.31000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.42500 GHz
Sweep 11.0 ms (1001 pts)
1 N 1 f 2.413 27 GHz -1.049 dBm
2 N 1 f 2.400 00 GHz -29.356 dBm
3 N 1 f 2.390 00 GHz -50.388 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-21.05 dBm
System
Display
Settings
Align Now, All required

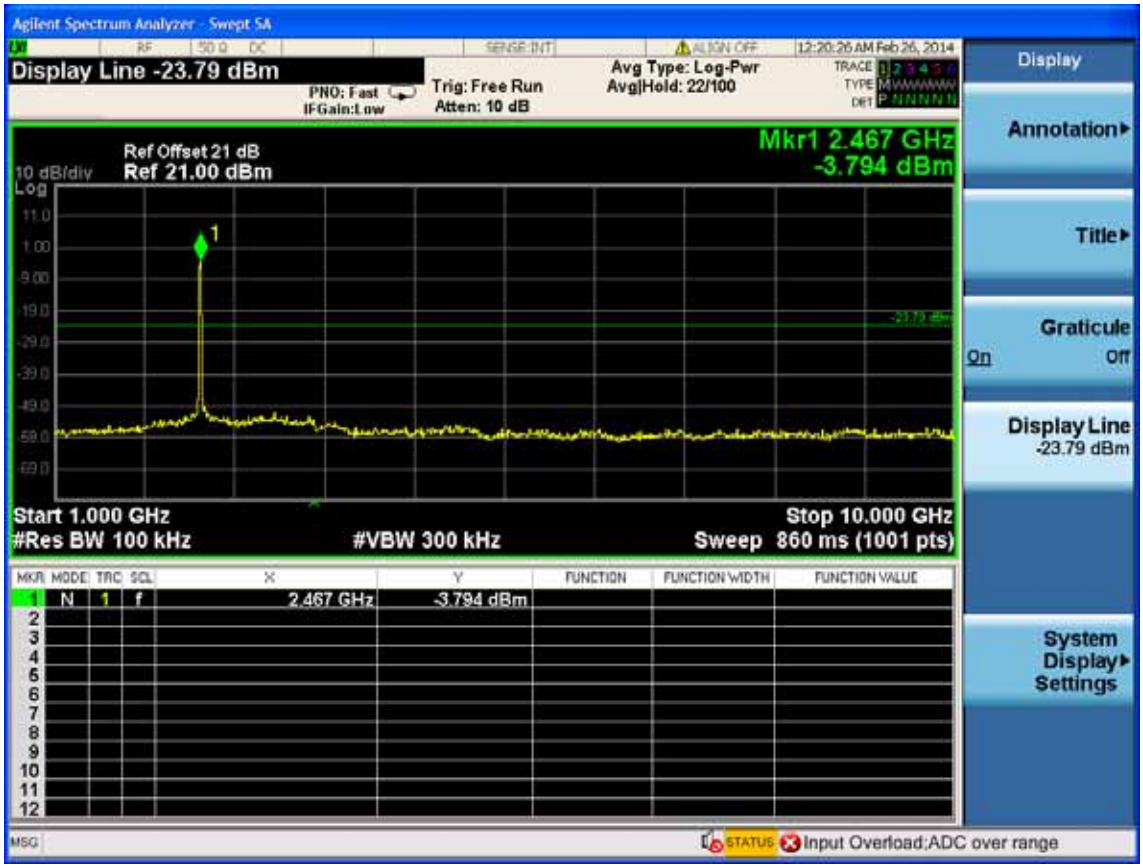
Test CH6: 2437MHz

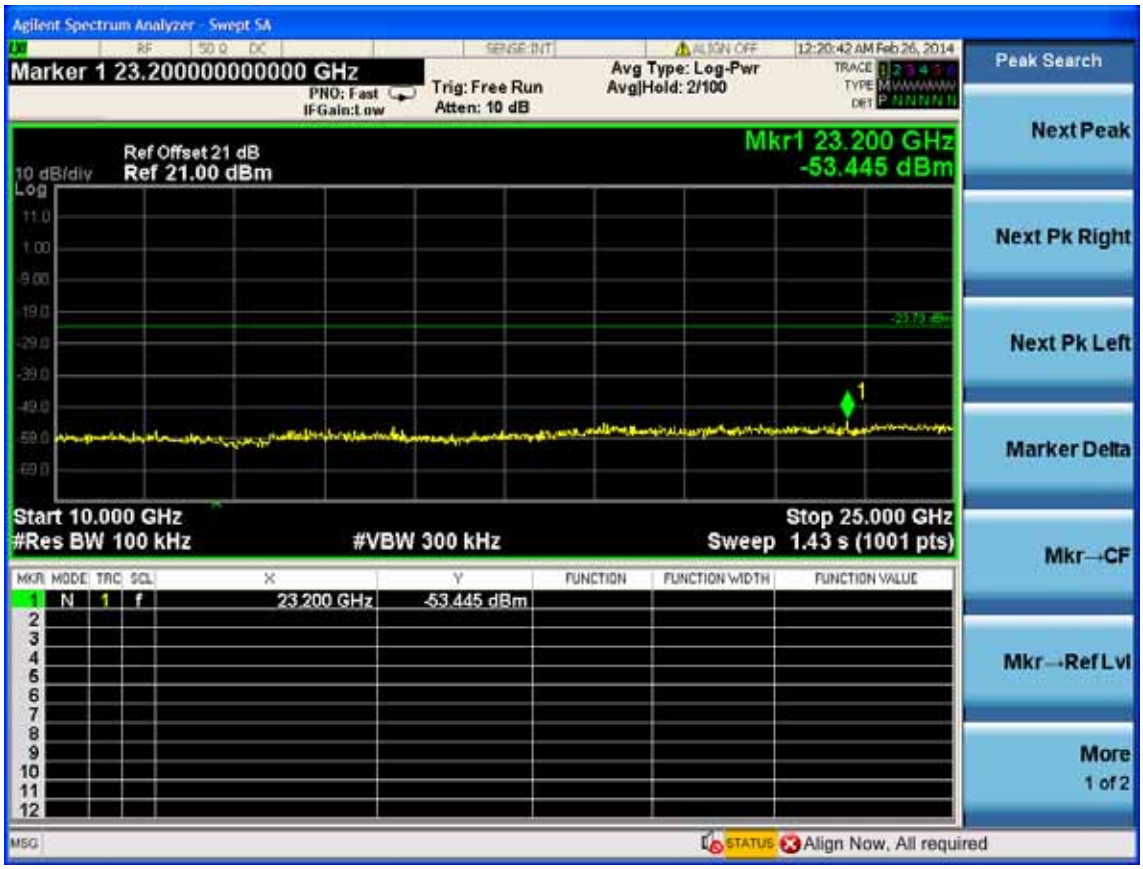


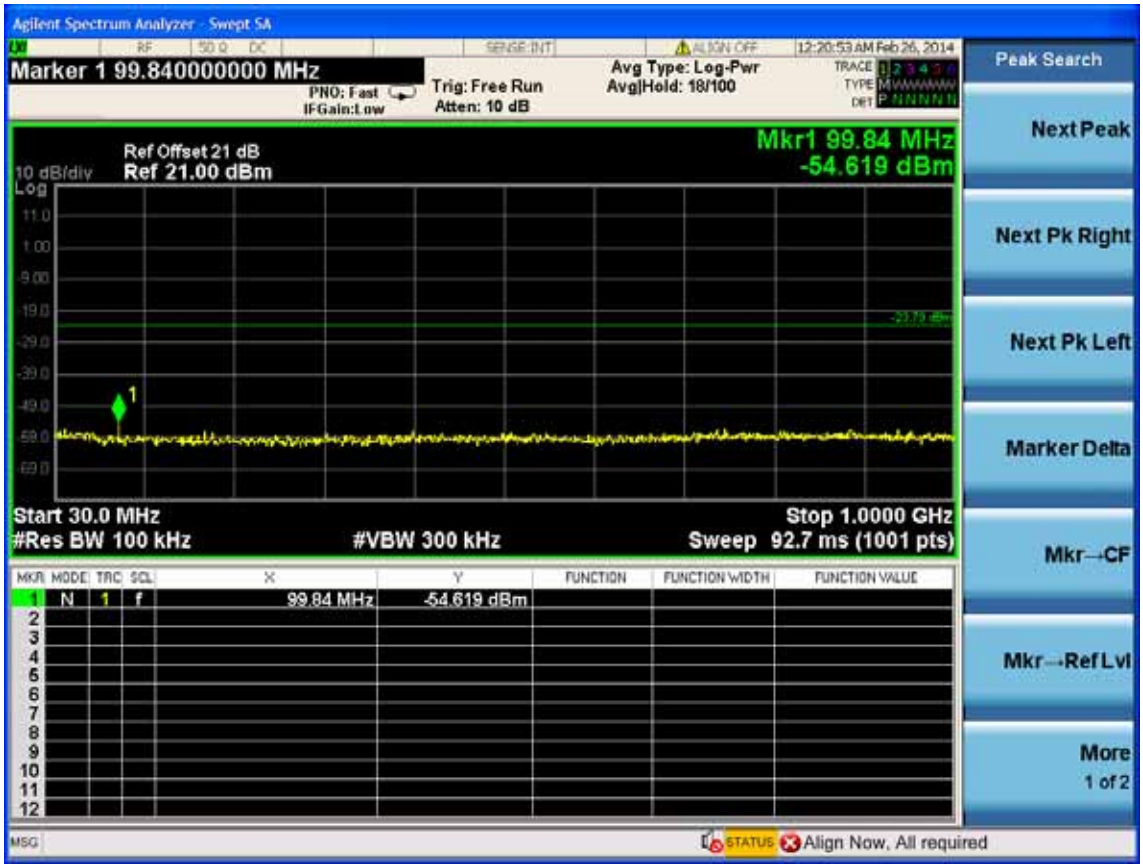




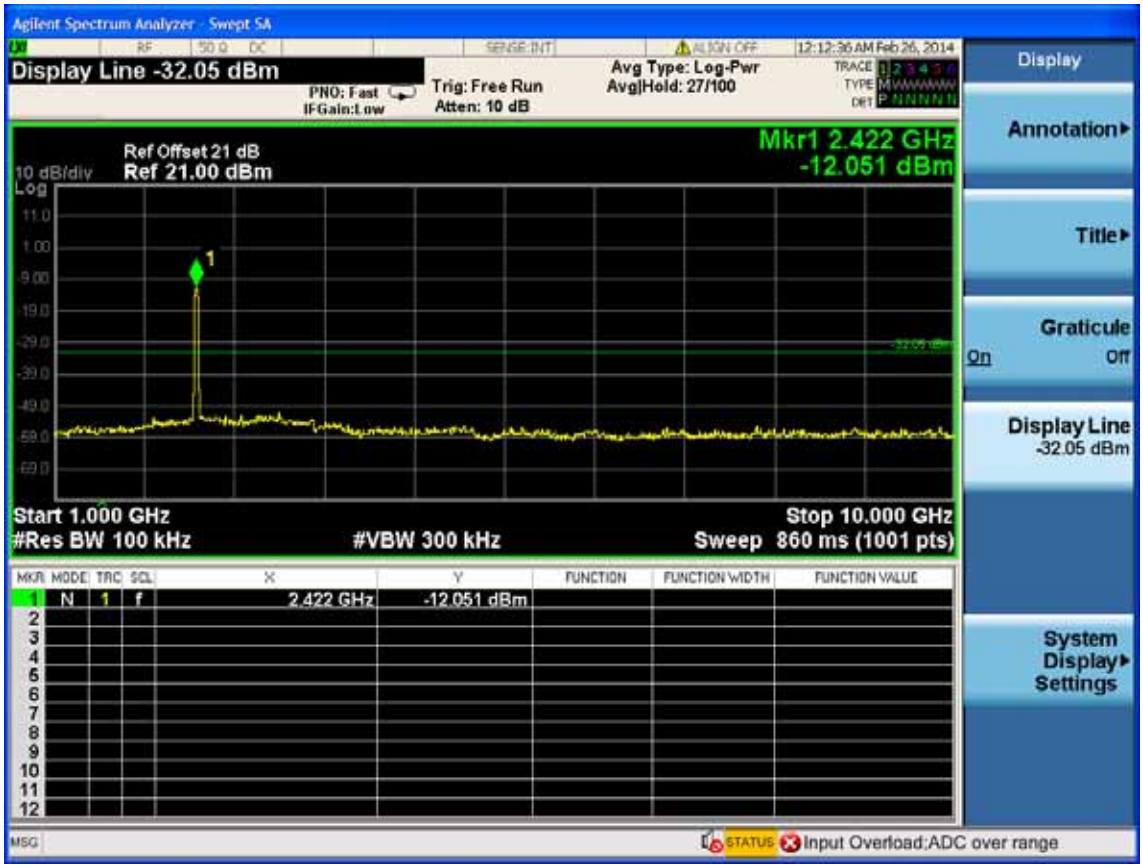
Test CH11: 2462MHz

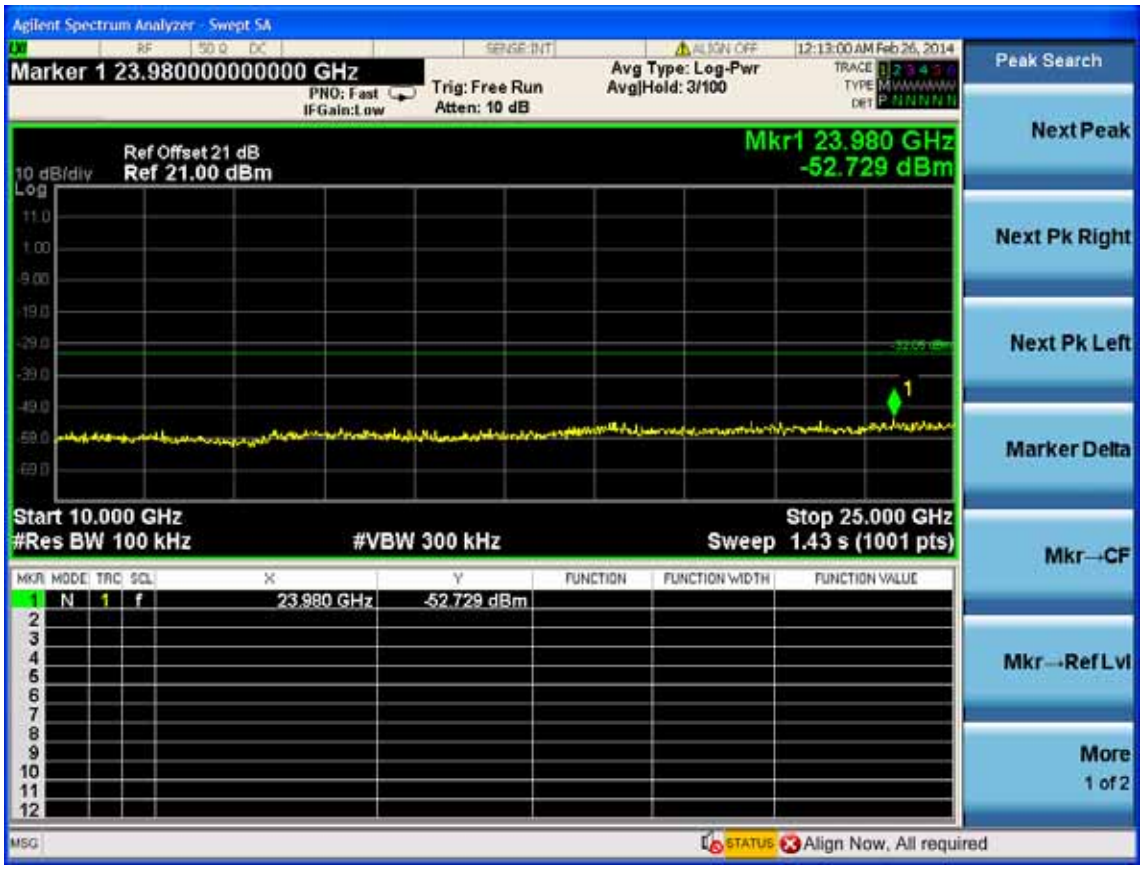

Agilent Spectrum Analyzer - Swept SA
Display Line -23.79 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 22/100
12:20:26 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 2.467 GHz
-3.794 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 860 ms (1001 pts)
1 N 1 f 2.467 GHz -3.794 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-23.79 dBm
System Display Settings
Input Overload;ADC over range

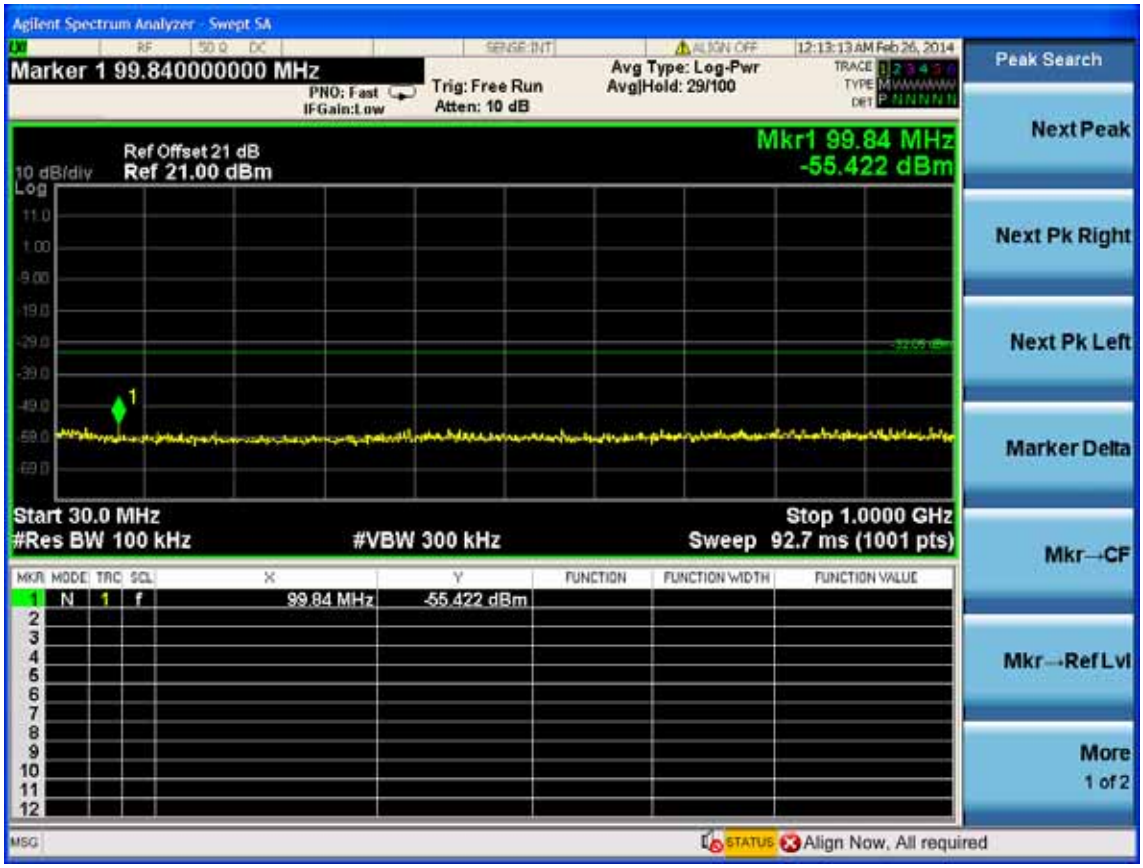

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.200000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 2/100
12:20:42 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 23.200 GHz
-53.445 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.200 GHz -53.445 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required



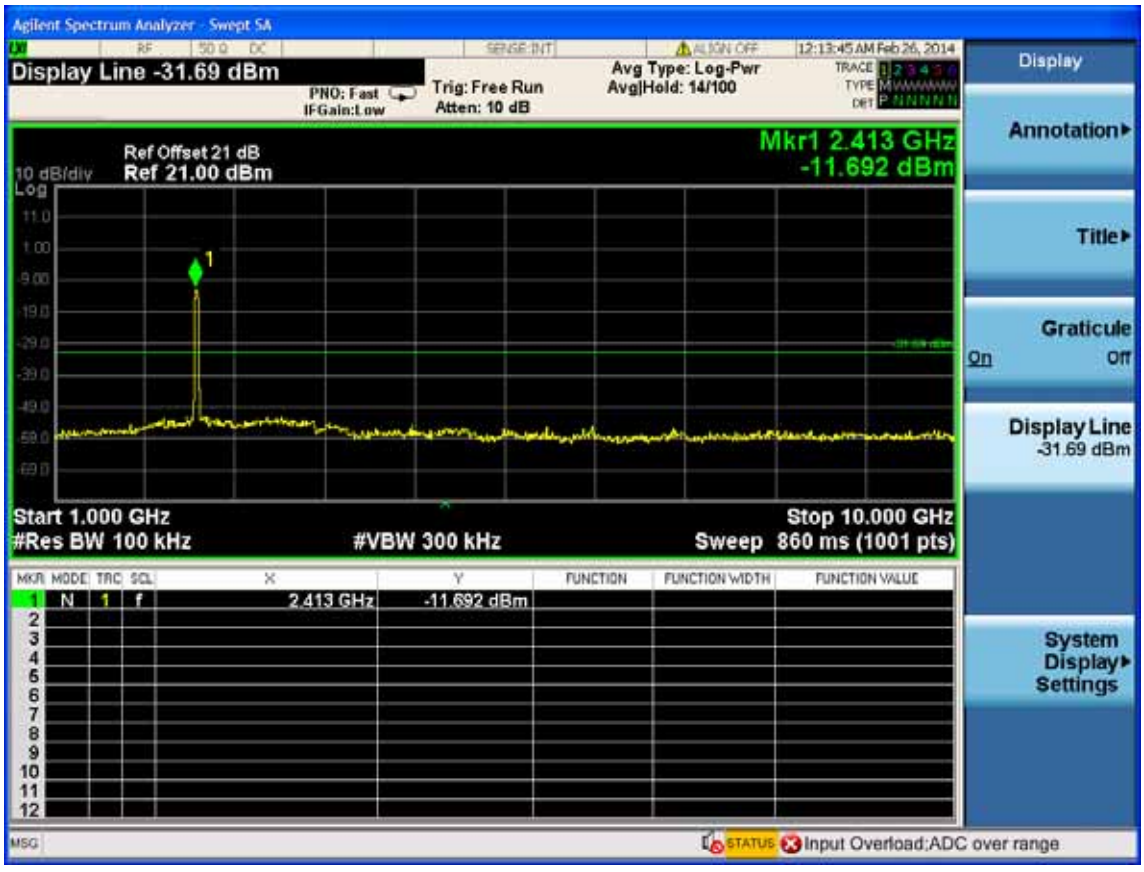
Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz

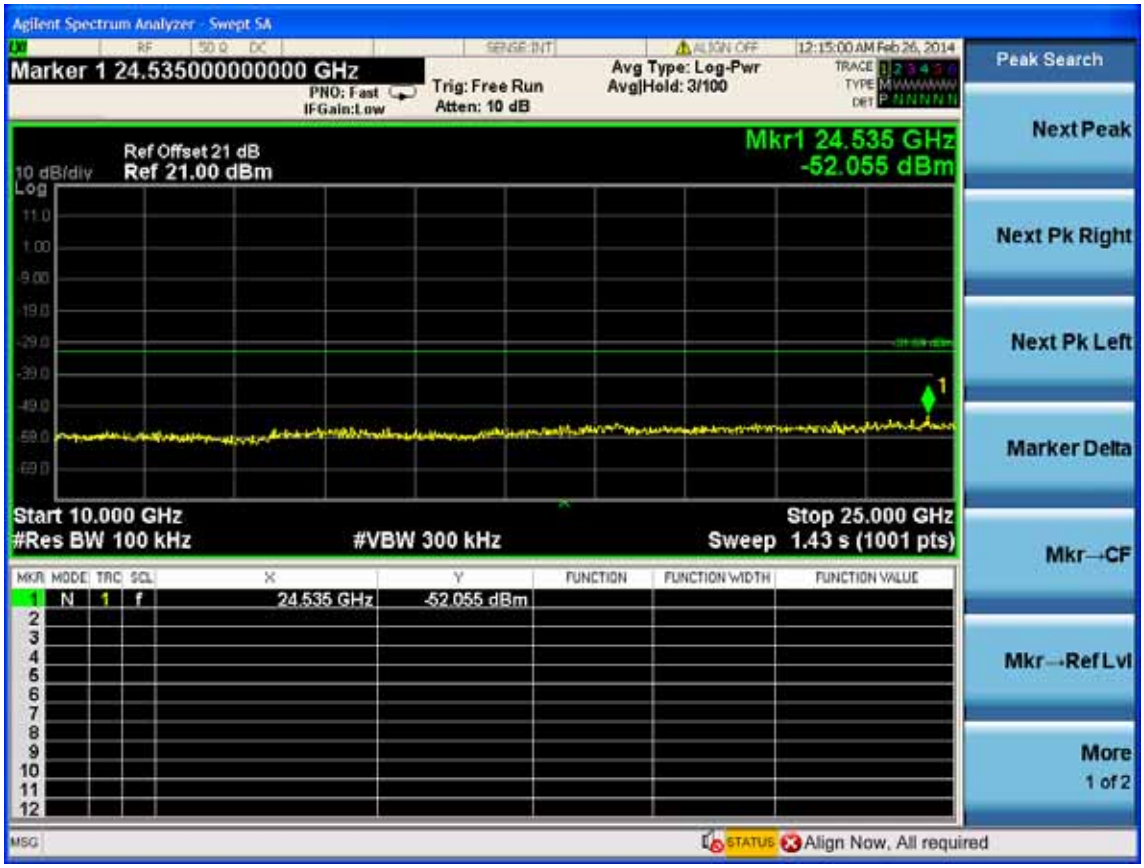

Agilent Spectrum Analyzer - Swept SA
Display Line -32.05 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 27/100
12:12:36 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 2.422 GHz
-12.051 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 10.000 GHz
Sweep 860 ms (1001 pts)
1 N 1 f 2.422 GHz -12.051 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-32.05 dBm
System
Display
Settings
Input Overload;ADC over range

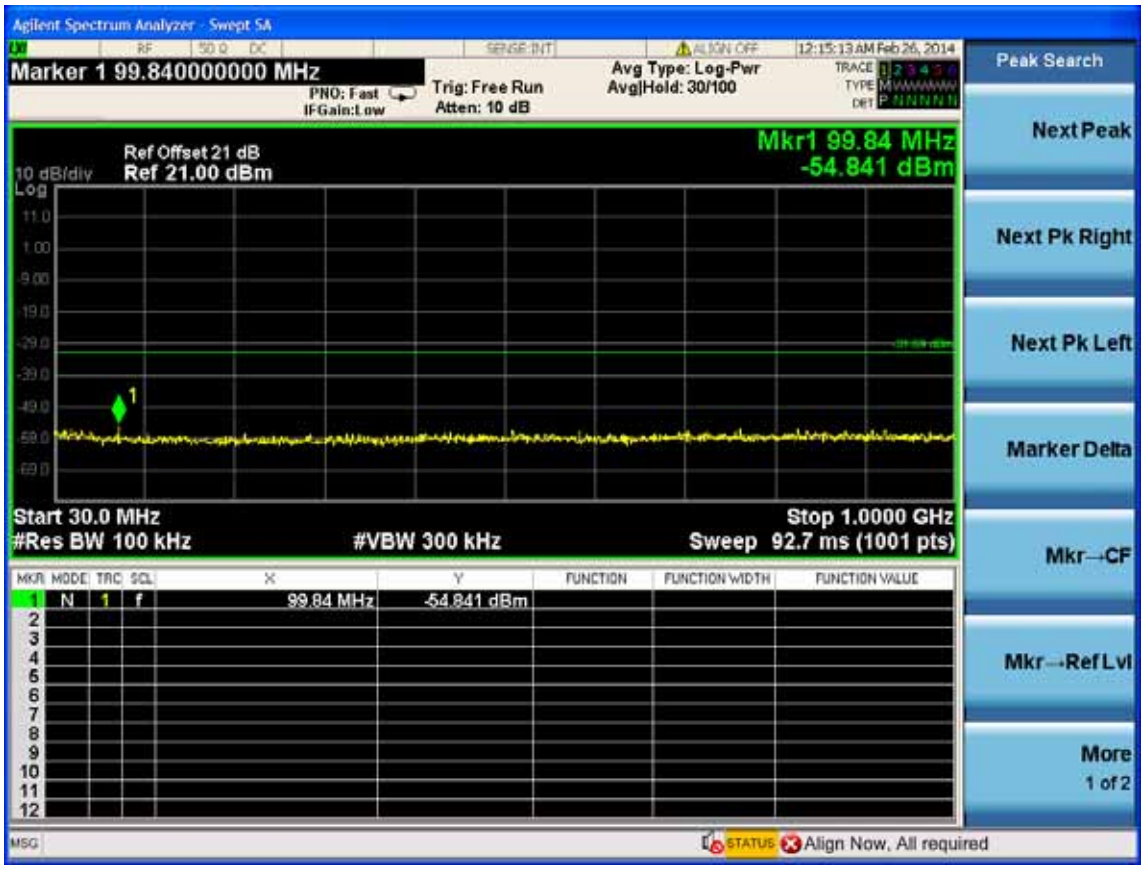

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.980000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
12:13:00 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 23.980 GHz
-52.729 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.980 GHz -52.729 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required



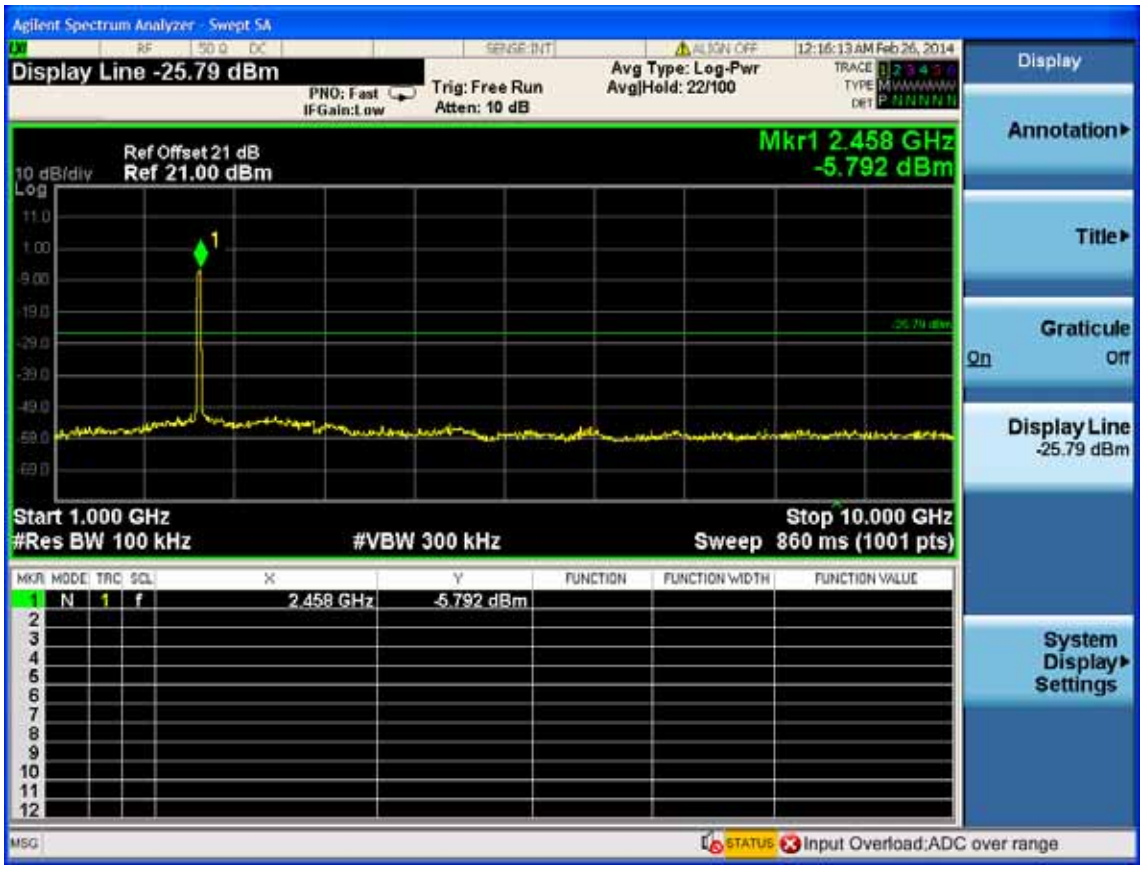
Test CH4: 2437MHz

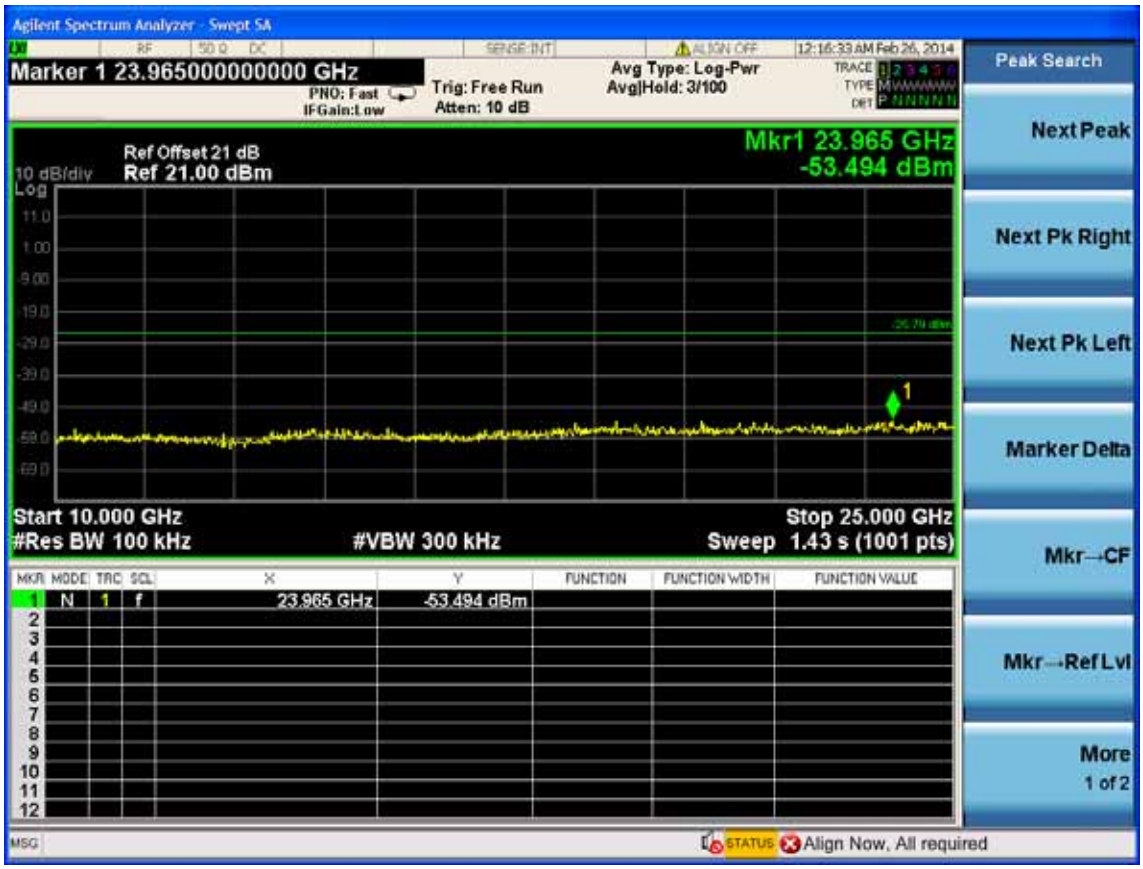


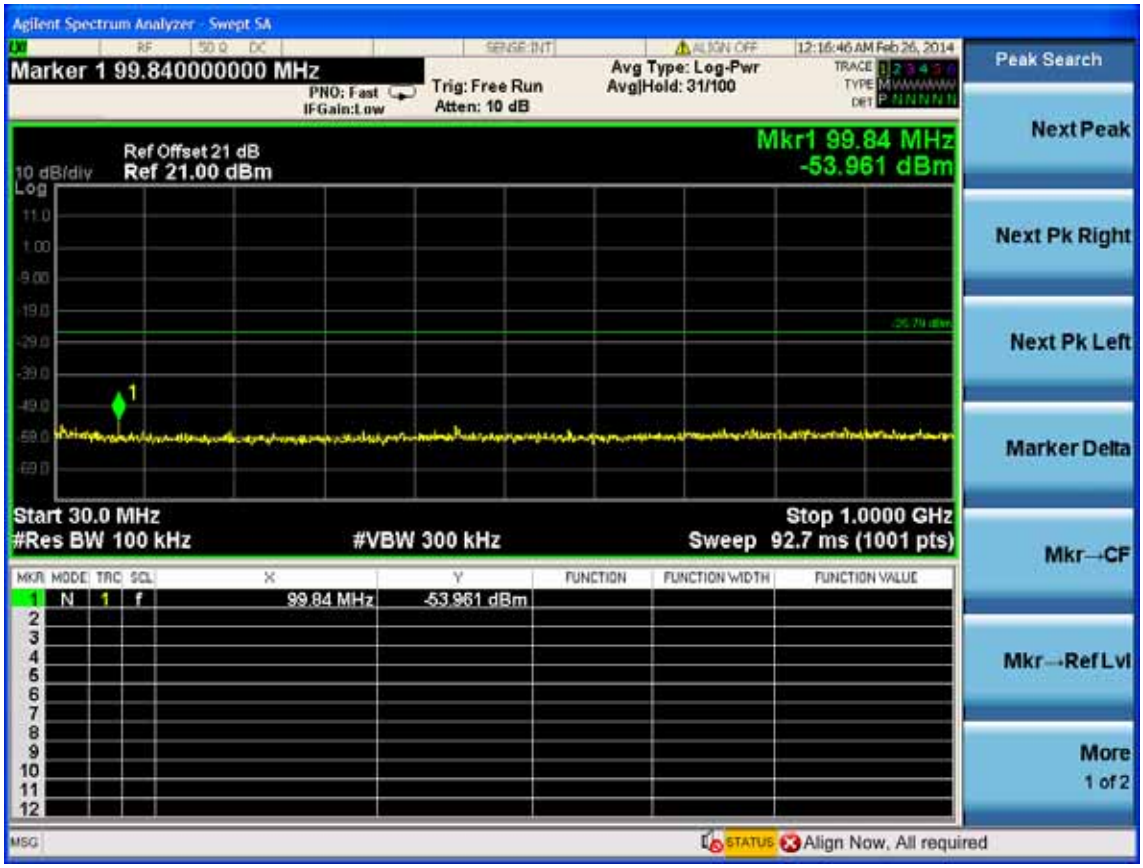

Agilent Spectrum Analyzer - Swept SA
Marker 1 24.535000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
12:15:00 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 24.535 GHz
-52.055 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 24.535 GHz -52.055 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 30/100
12:15:13 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-54.841 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -54.841 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

Test CH7: 2452MHz





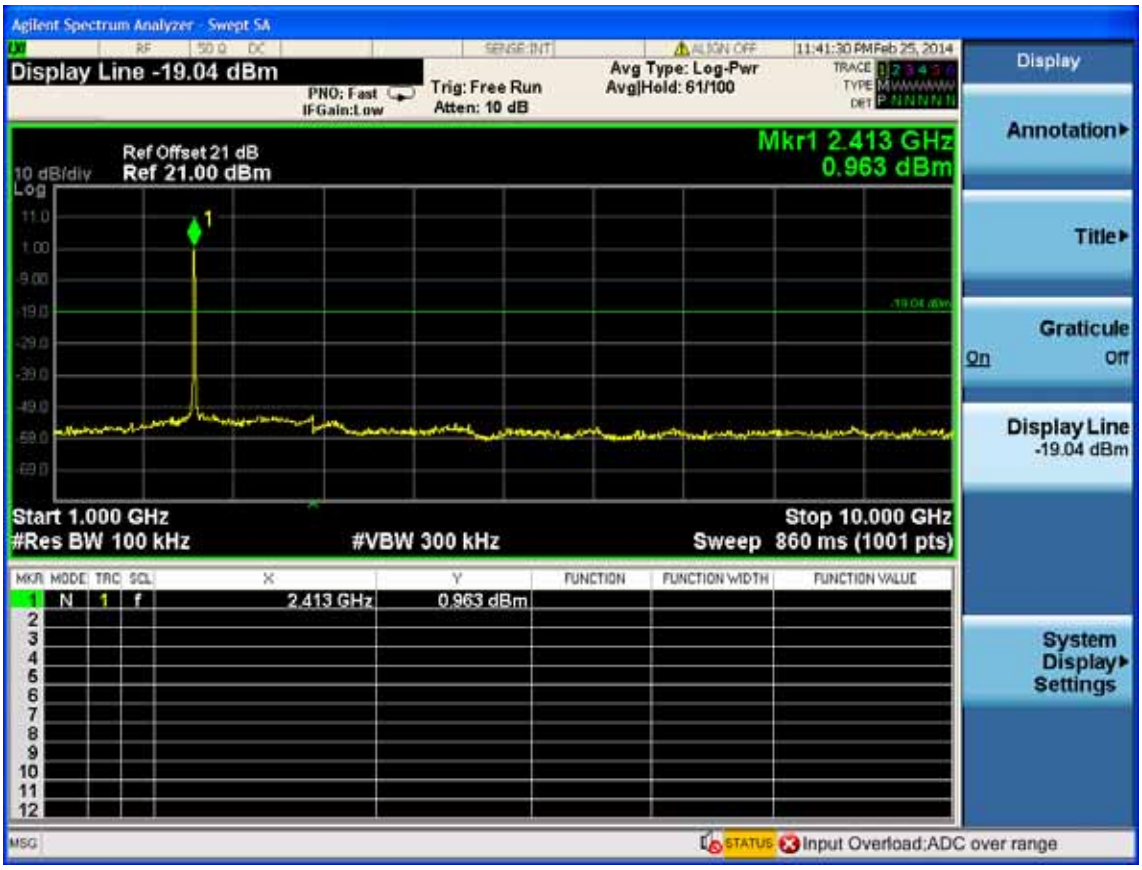

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 31/100
12:16:46 AM Feb 26, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-53.961 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -53.961 dBm
Align Now, All required

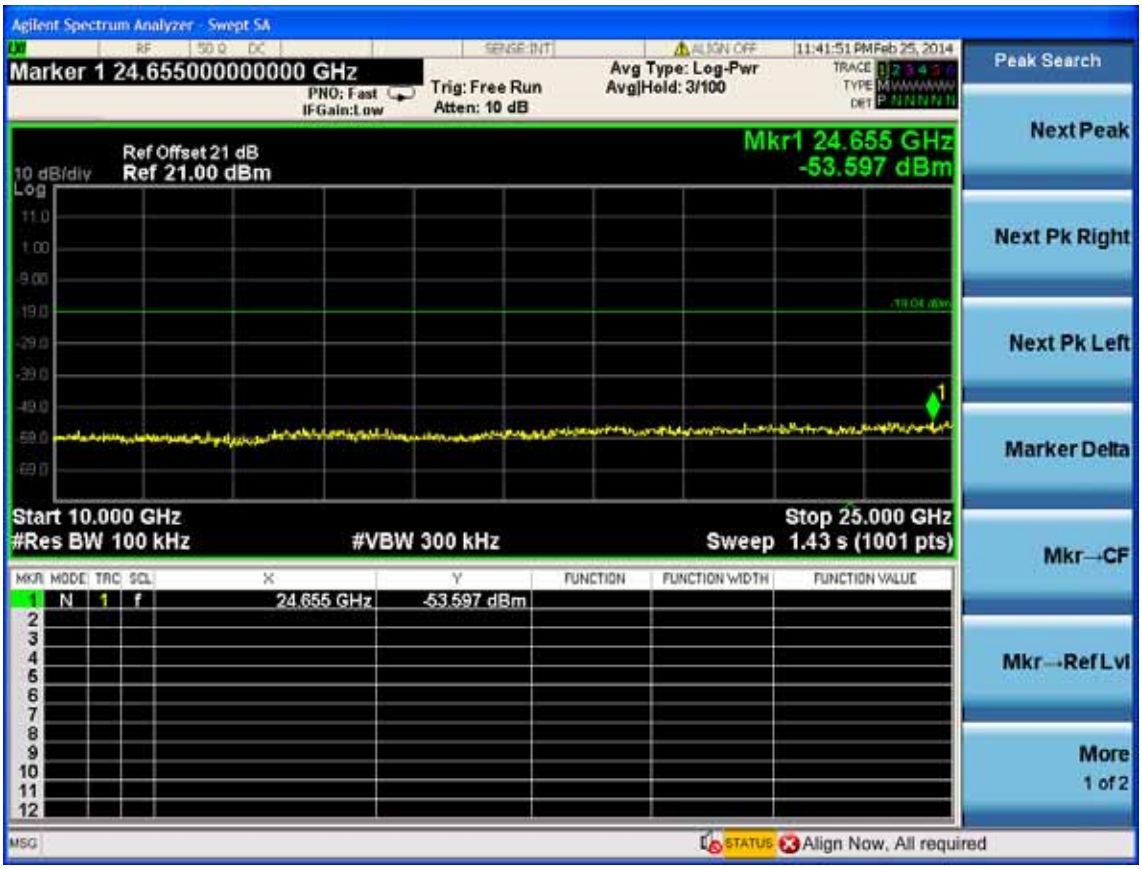

Agilent Spectrum Analyzer - Swept SA
Display Line -25.53 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
12:18:08 AM Feb 26, 2014
Display
Annotation
Title
Graticule
On Off
Display Line
-25.53 dBm
System
Display
Settings
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 2.463 250 GHz
-5.531 dBm
Start 2.42500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.51000 GHz
Sweep 8.13 ms (1001 pts)
1 N 1 f 2.463 250 GHz -5.531 dBm
2 N 1 f 2.483 500 GHz -51.256 dBm
3 N 1 f 2.500 000 GHz -51.436 dBm
Align Now, All required

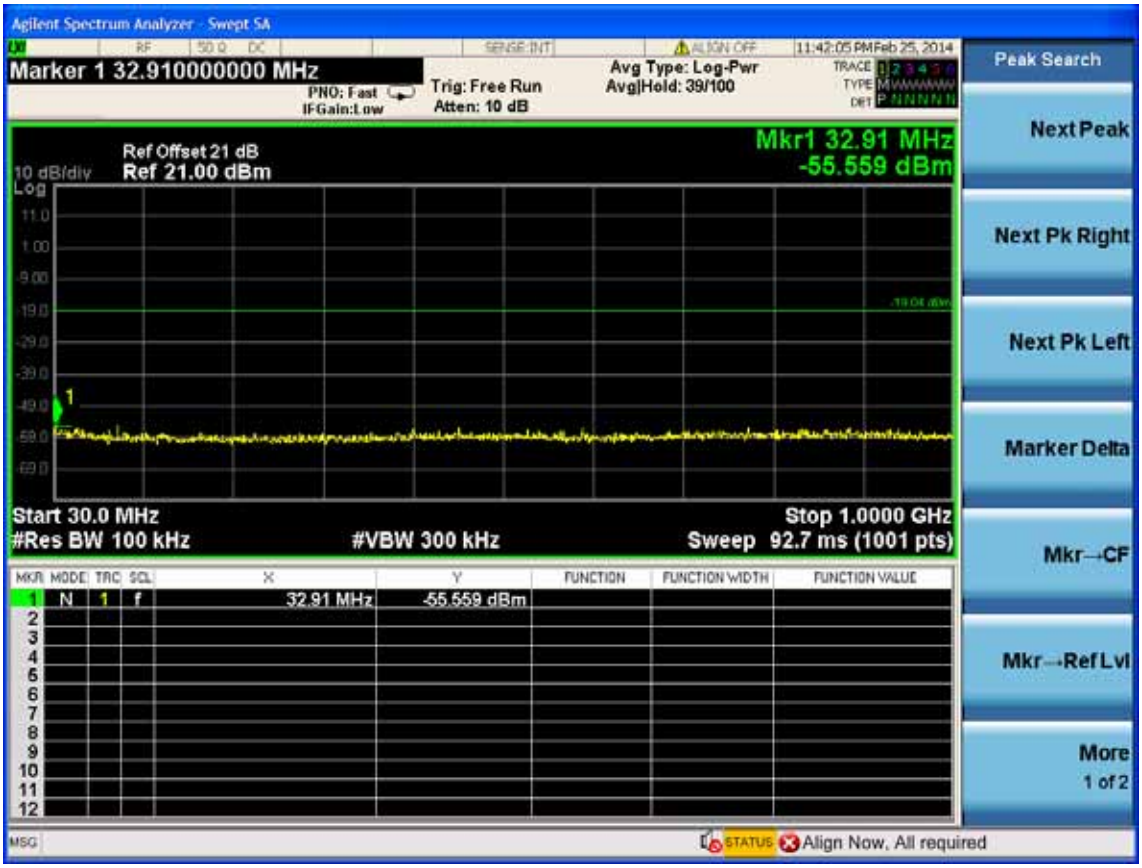
Chain B:

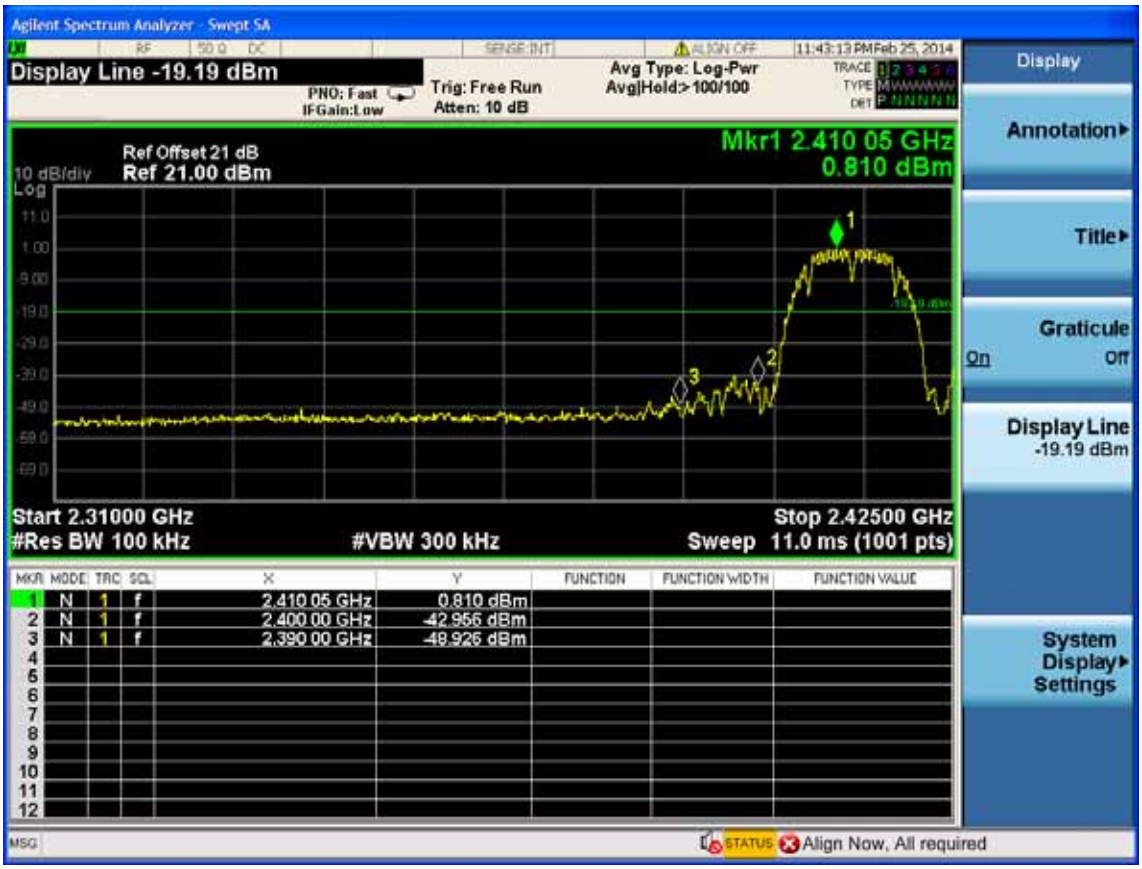
Test Mode: IEEE 802.11b TX

Test CH1: 2412MHz

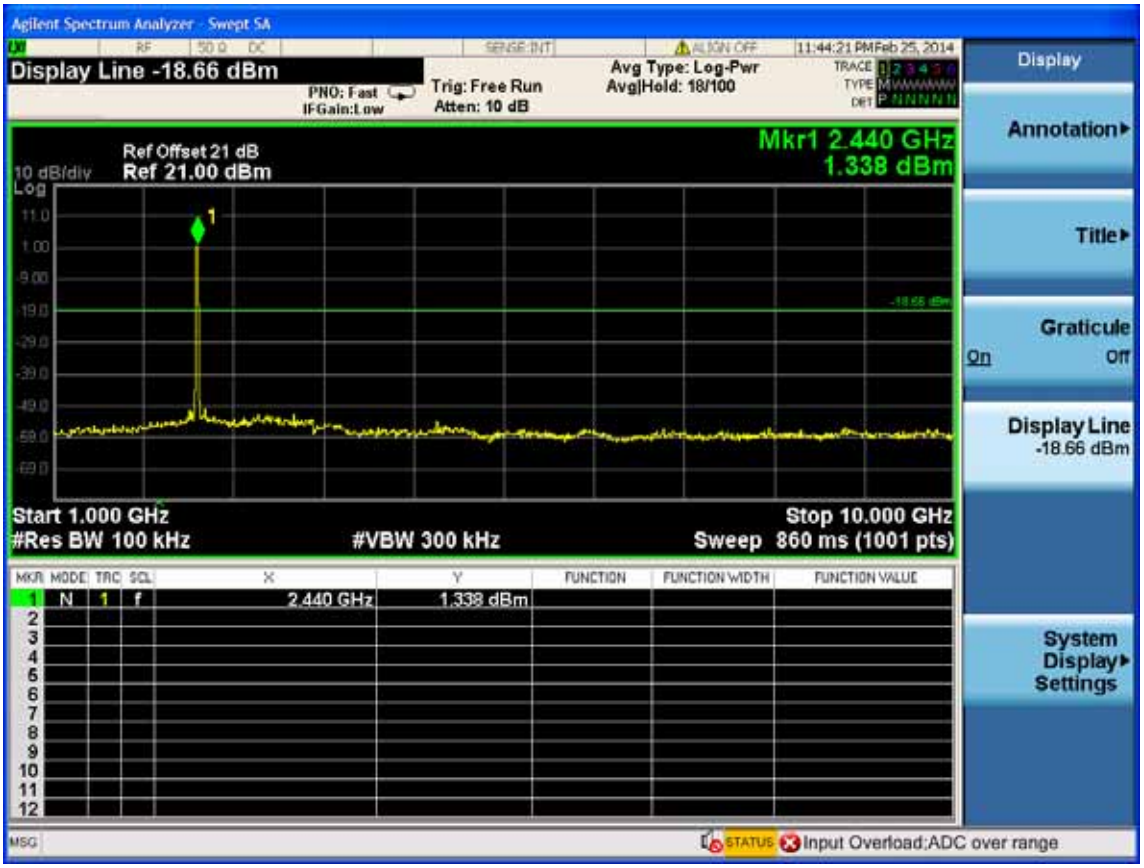


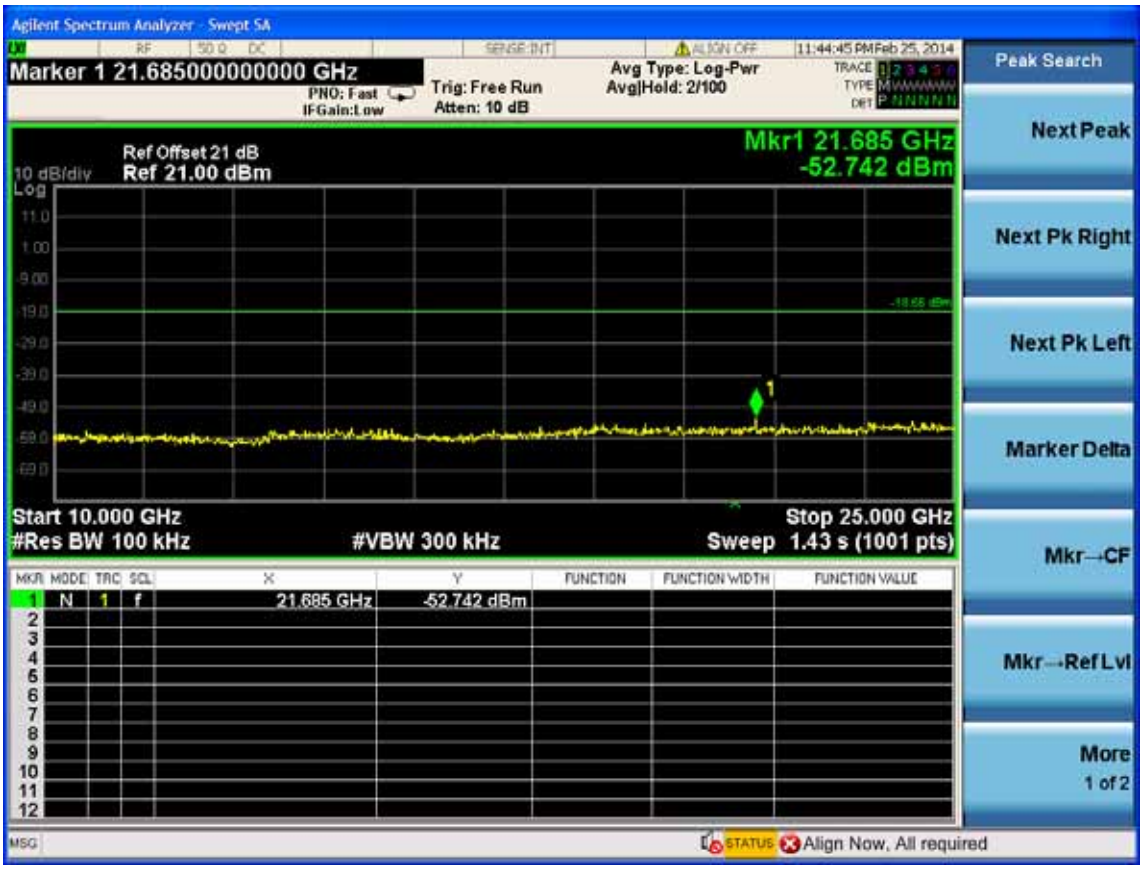


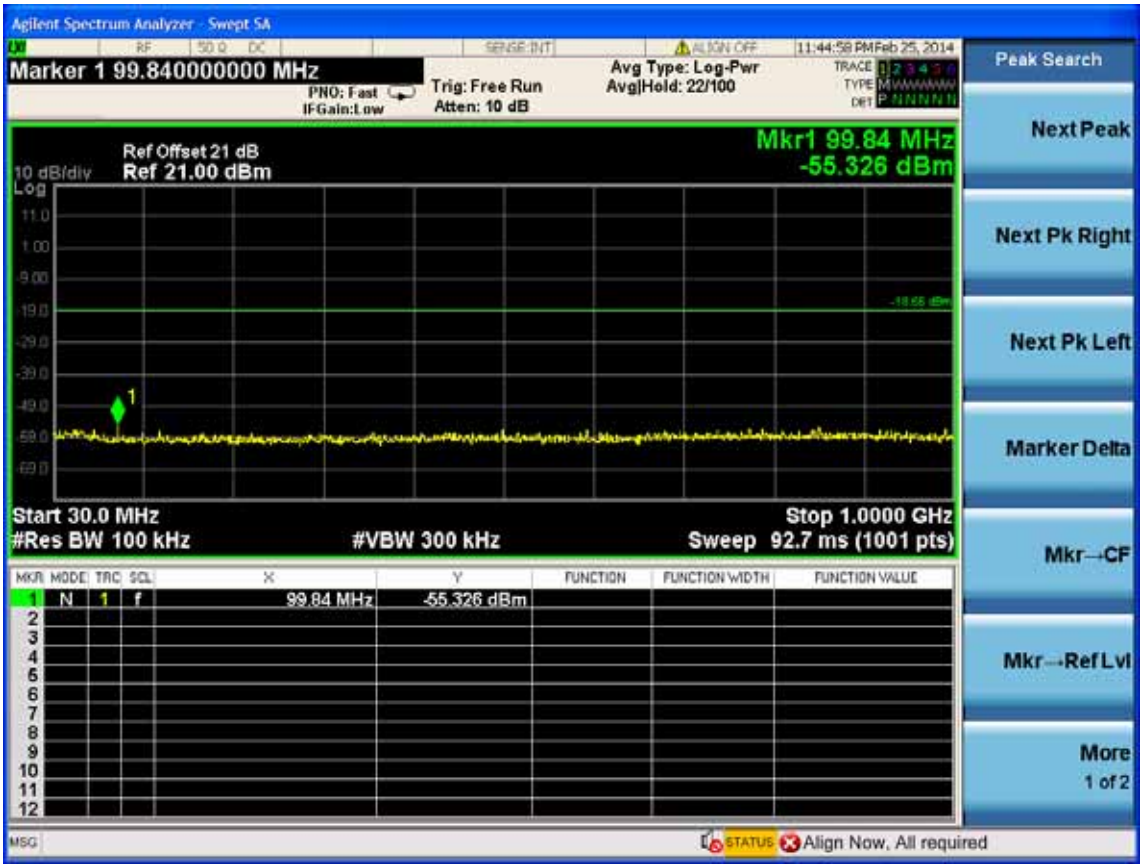

Agilent Spectrum Analyzer - Swept SA
Marker 1 32.910000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 39/100
11:42:05 PM Feb 25, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 32.91 MHz
-55.559 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 32.91 MHz -55.559 dBm
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Display Line -19.19 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:43:13 PM Feb 25, 2014
Display
Annotation
Title
Graticule
On Off
Display Line
-19.19 dBm
System
Display
Settings
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 2.410 05 GHz
0.810 dBm
Start 2.31000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.42500 GHz
Sweep 11.0 ms (1001 pts)
1 N 1 f 2.410 05 GHz 0.810 dBm
2 N 1 f 2.400 00 GHz -42.956 dBm
3 N 1 f 2.390 00 GHz -48.926 dBm
Align Now, All required

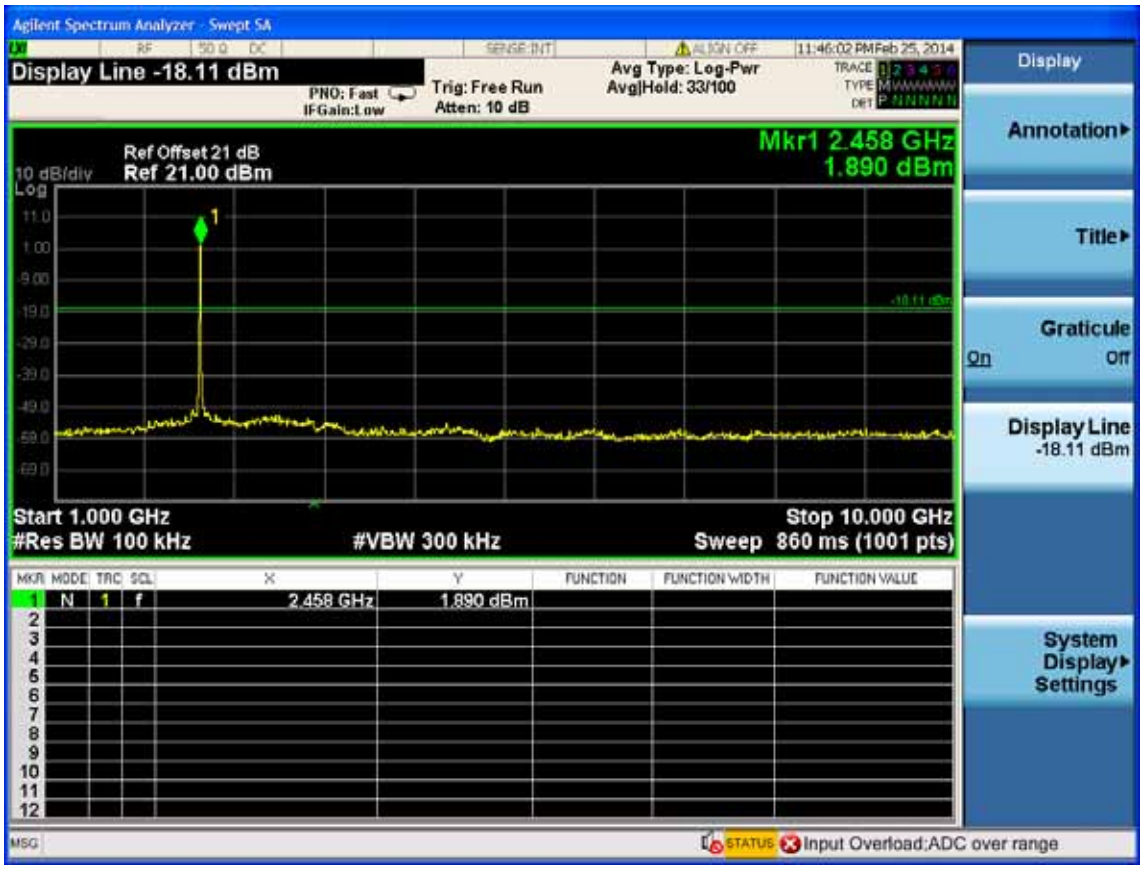
Test CH6: 2437MHz

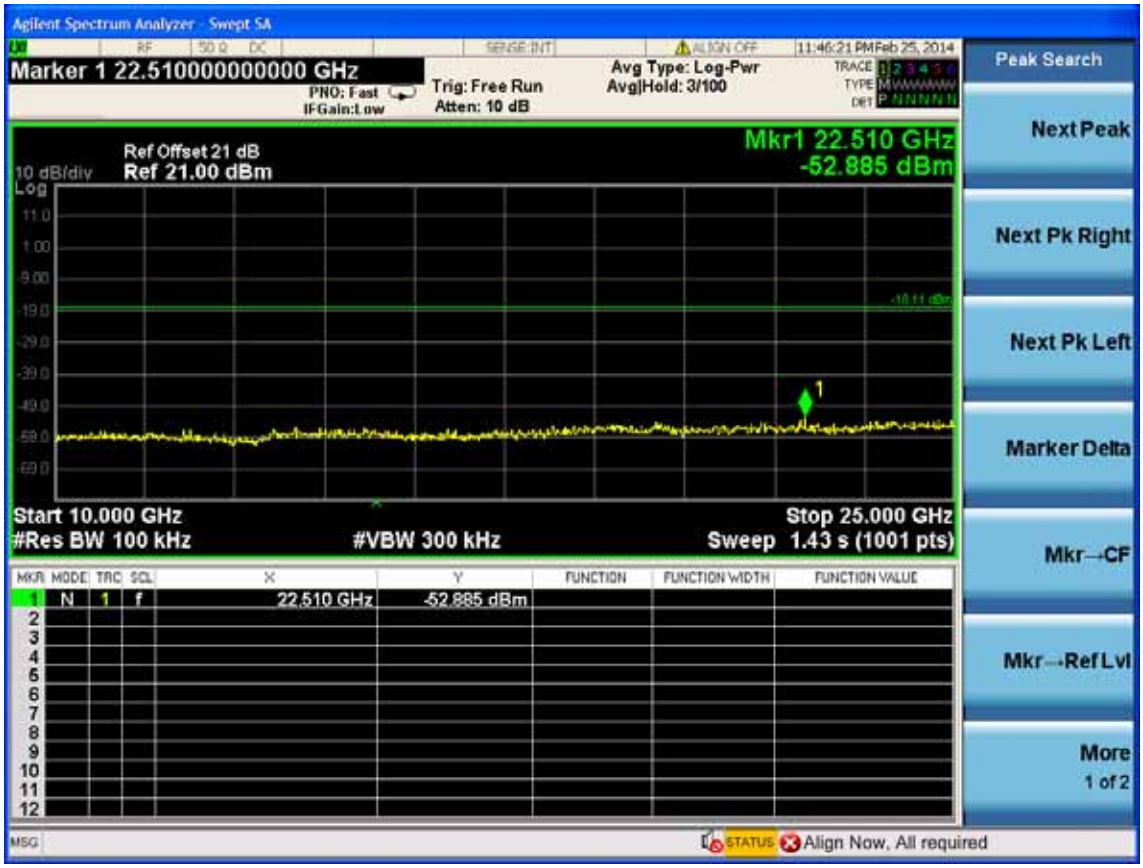


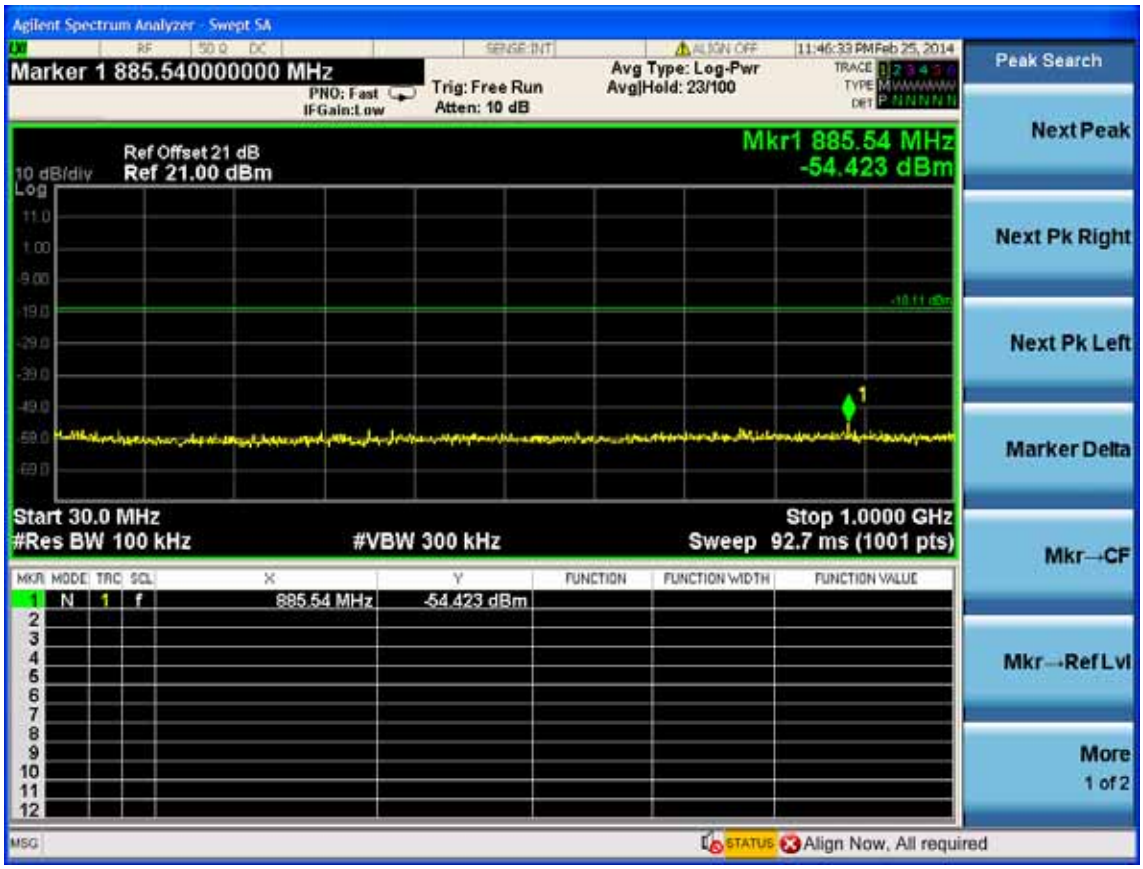




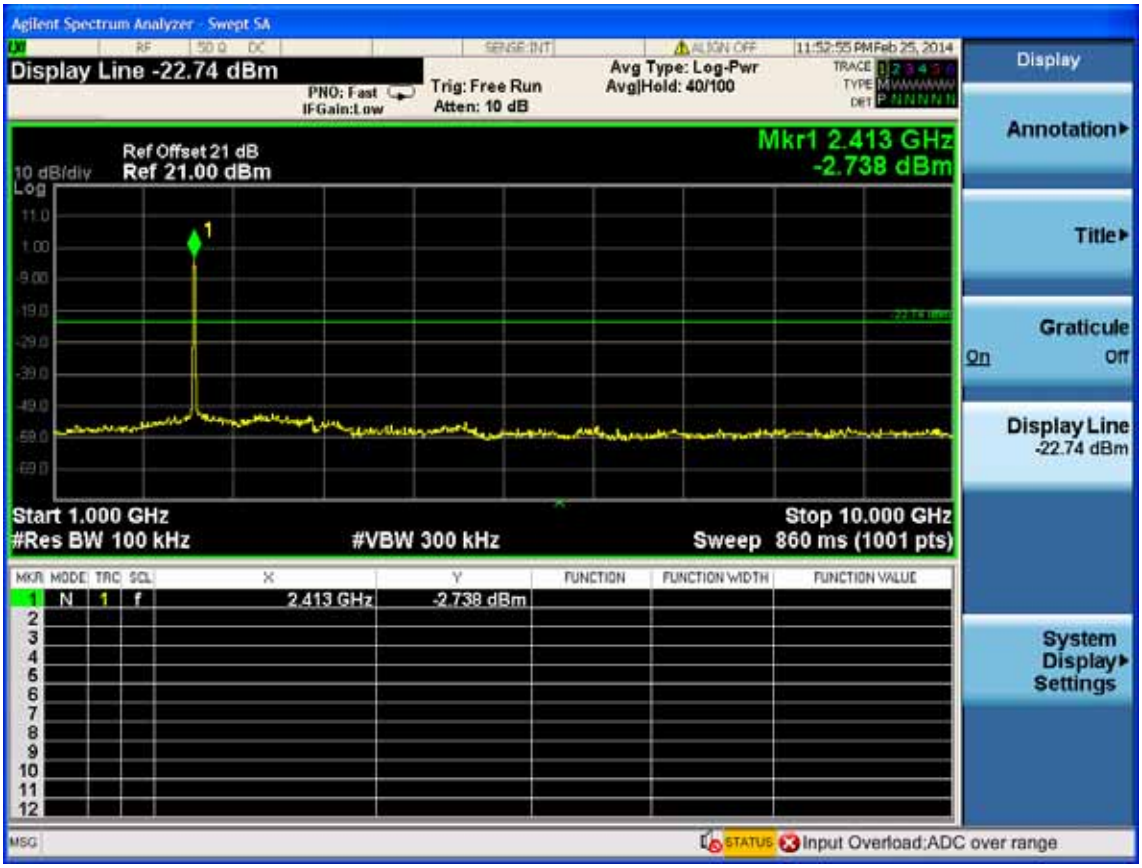
Test CH11: 2462MHz

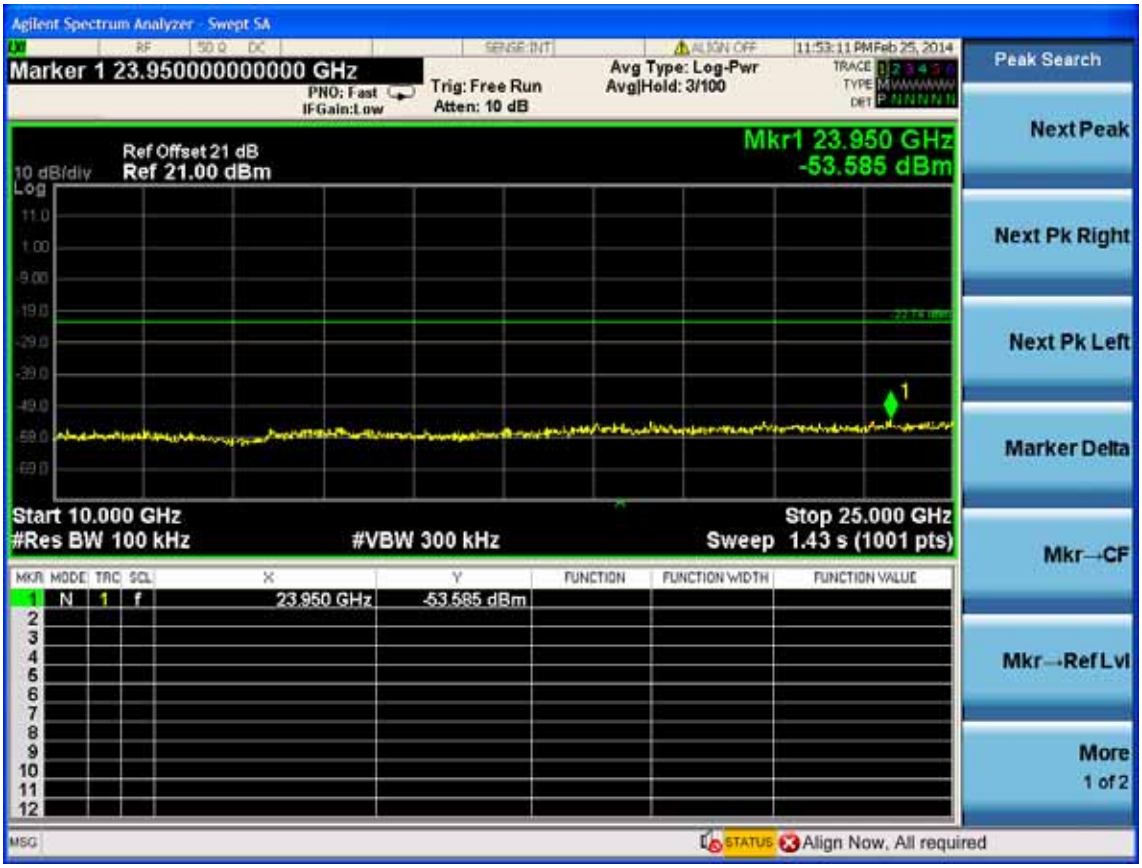


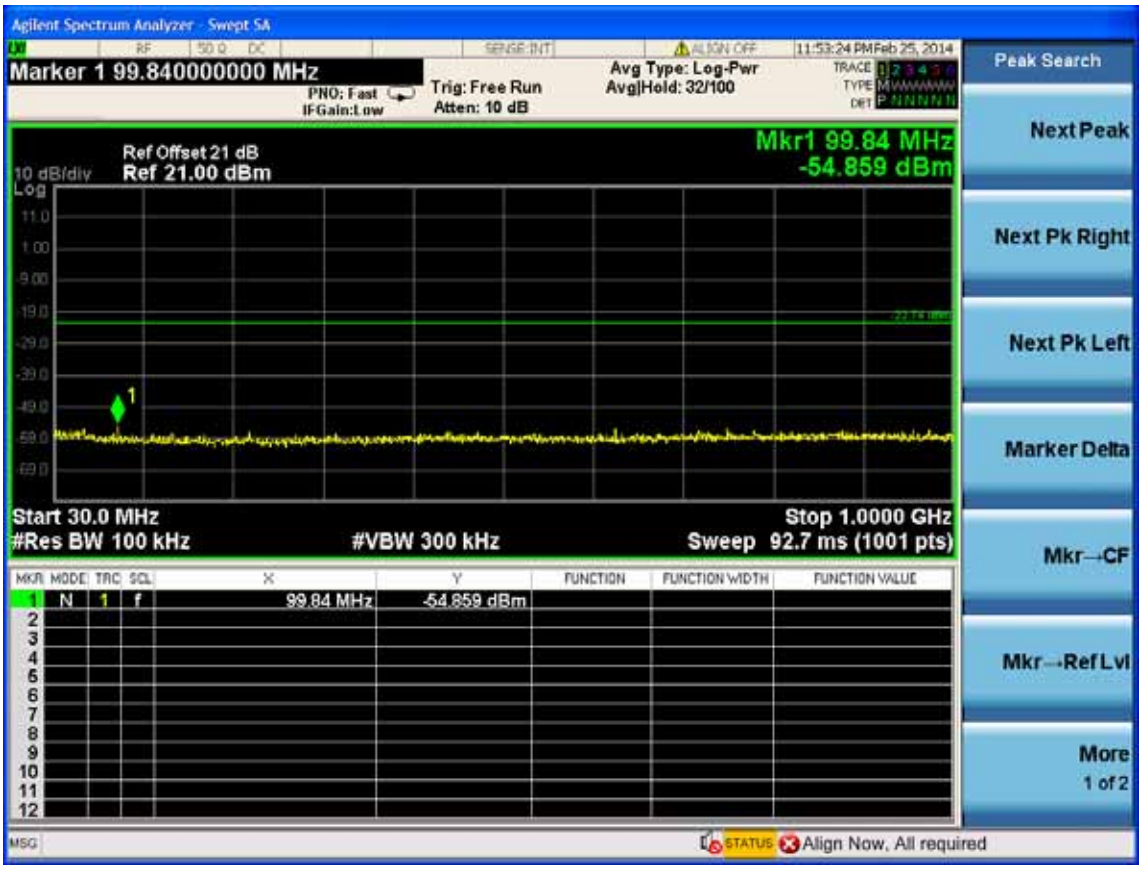

Agilent Spectrum Analyzer - Swept SA
Marker 1 22.510000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
11:46:21 PM Feb 25, 2014
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 22.510 GHz
-52.885 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 22.510 GHz -52.885 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

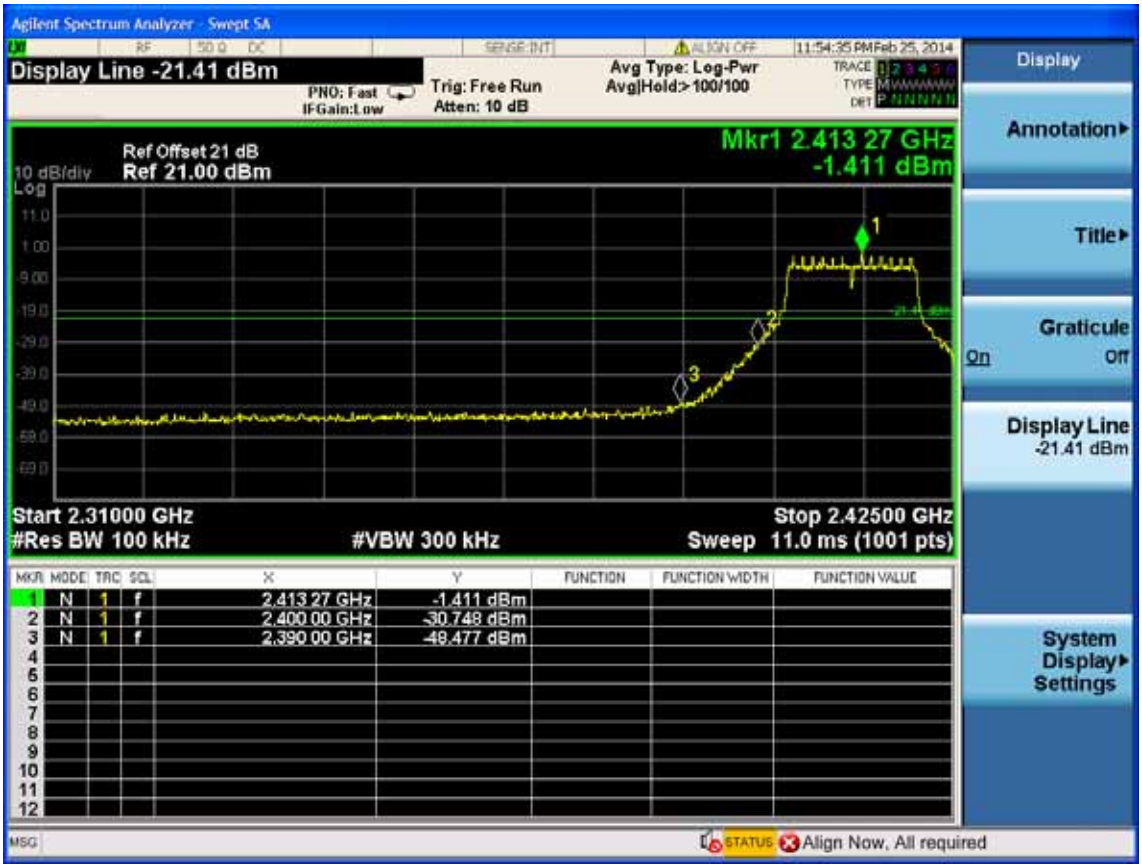

Agilent Spectrum Analyzer - Swept SA
Marker 1 885.540000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 23/100
11:46:33 PM Feb 25, 2014
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 885.54 MHz
-54.423 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 885.54 MHz -54.423 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

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

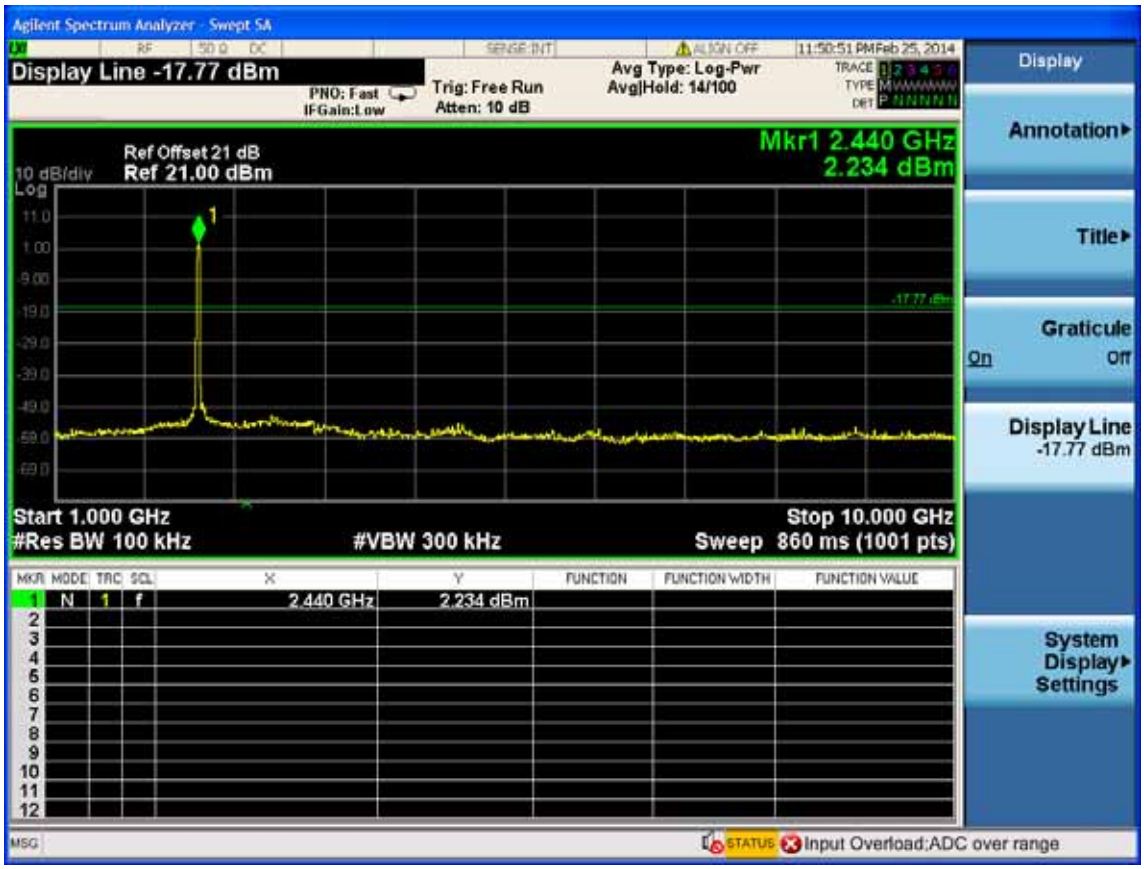


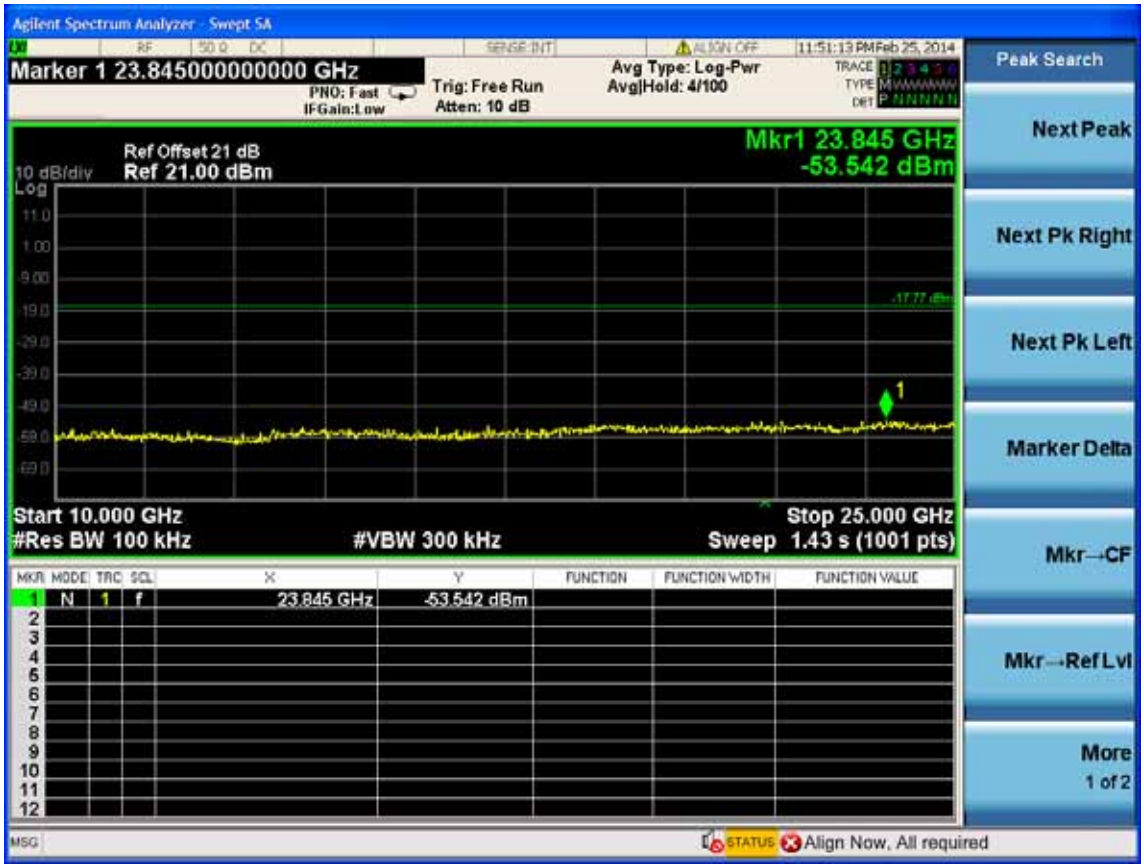

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.950000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
11:53:11 PM Feb 25, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 23.950 GHz
-53.585 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.950 GHz -53.585 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

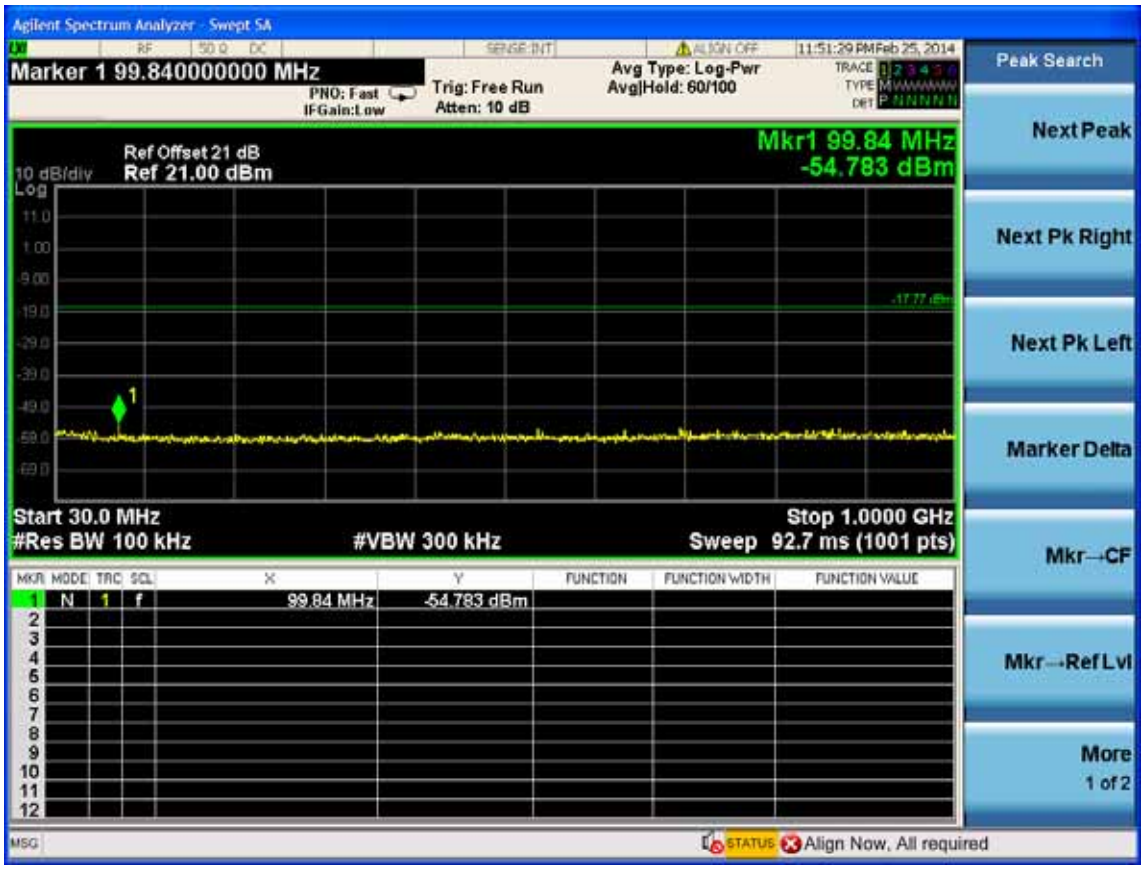

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 32/100
11:53:24 PM Feb 25, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-54.859 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -54.859 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required



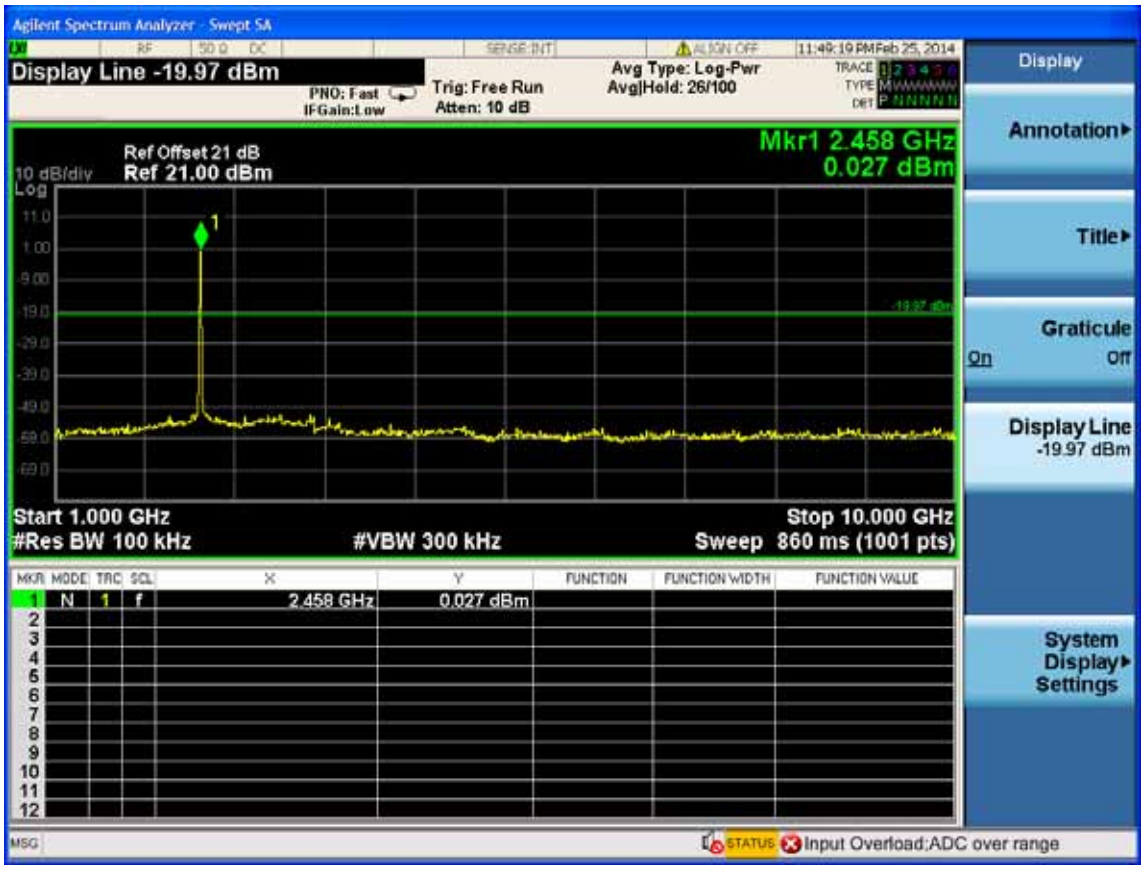
Test CH6: 2437MHz

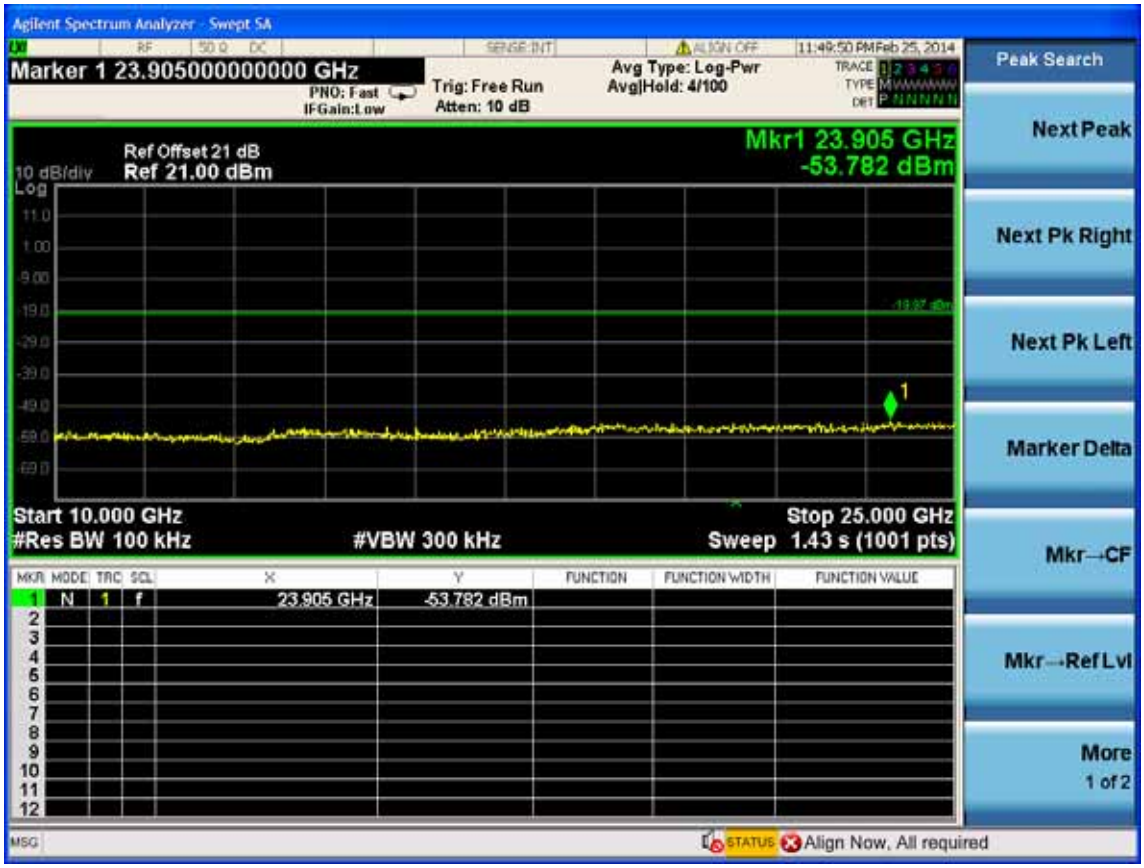


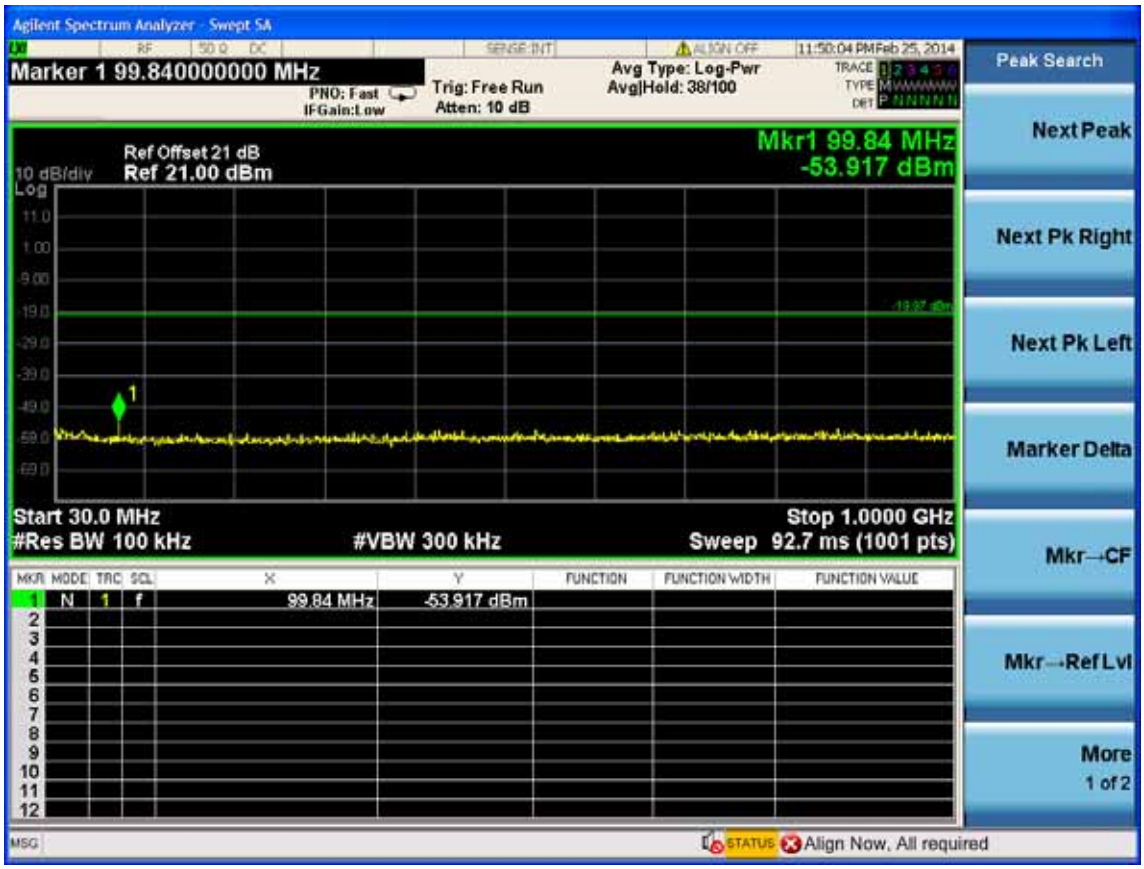

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.845000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 4/100
11:51:13 PM Feb 25, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 23.845 GHz
-53.542 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.845 GHz -53.542 dBm
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 60/100
11:51:29 PM Feb 25, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Ref 21.00 dBm
Log
Mkr1 99.84 MHz
-54.783 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -54.783 dBm
Align Now, All required

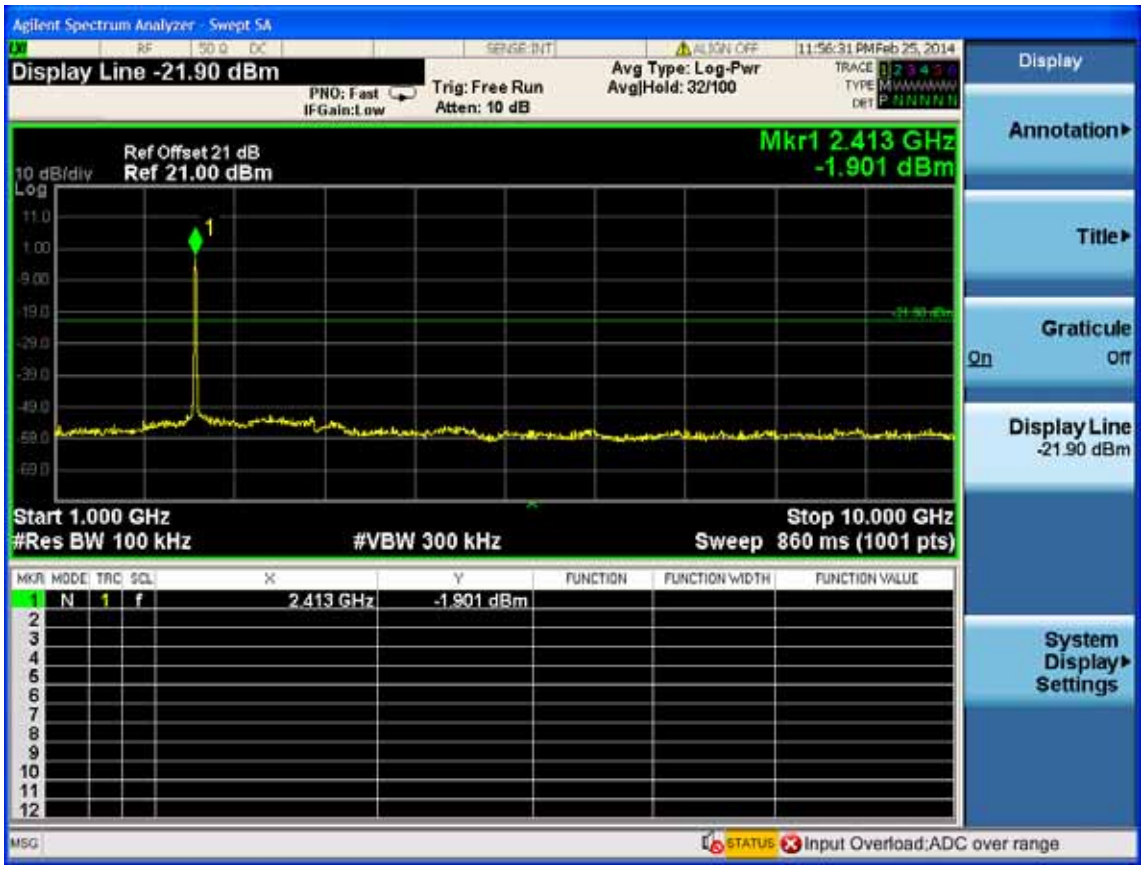
Test CH11: 2462MHz

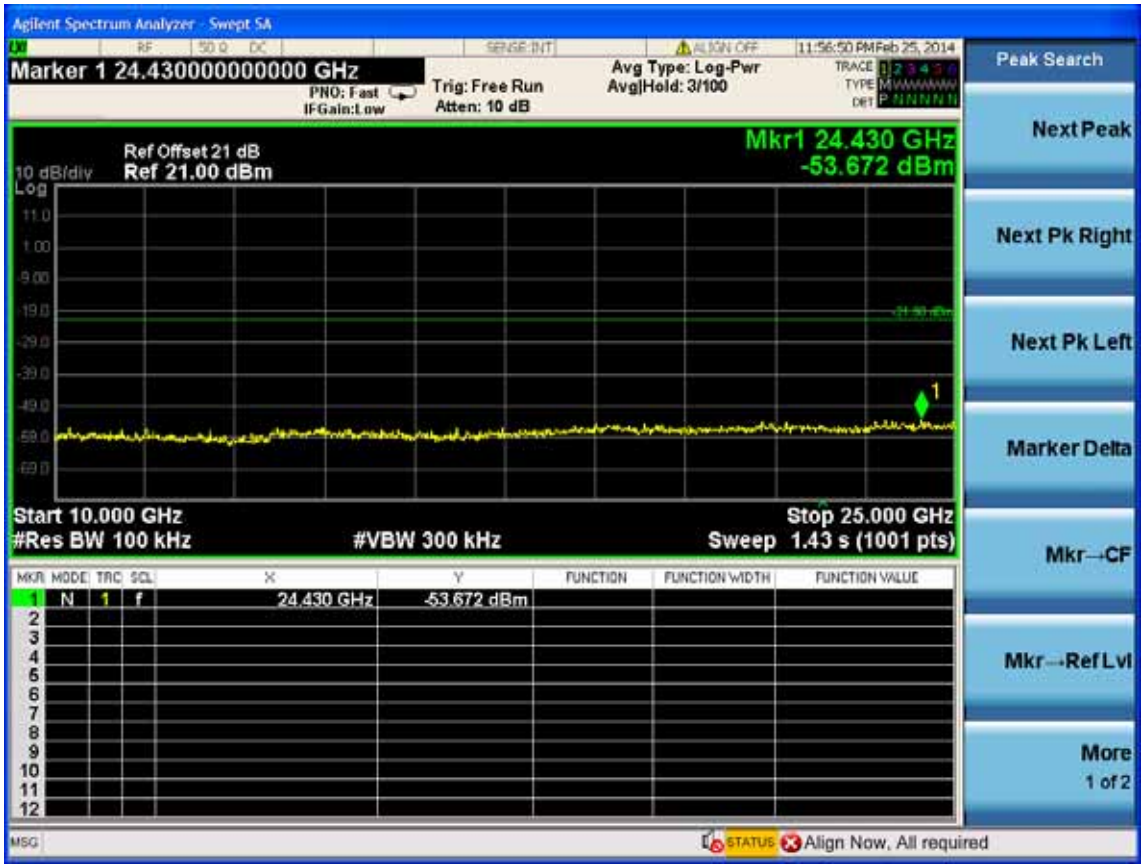


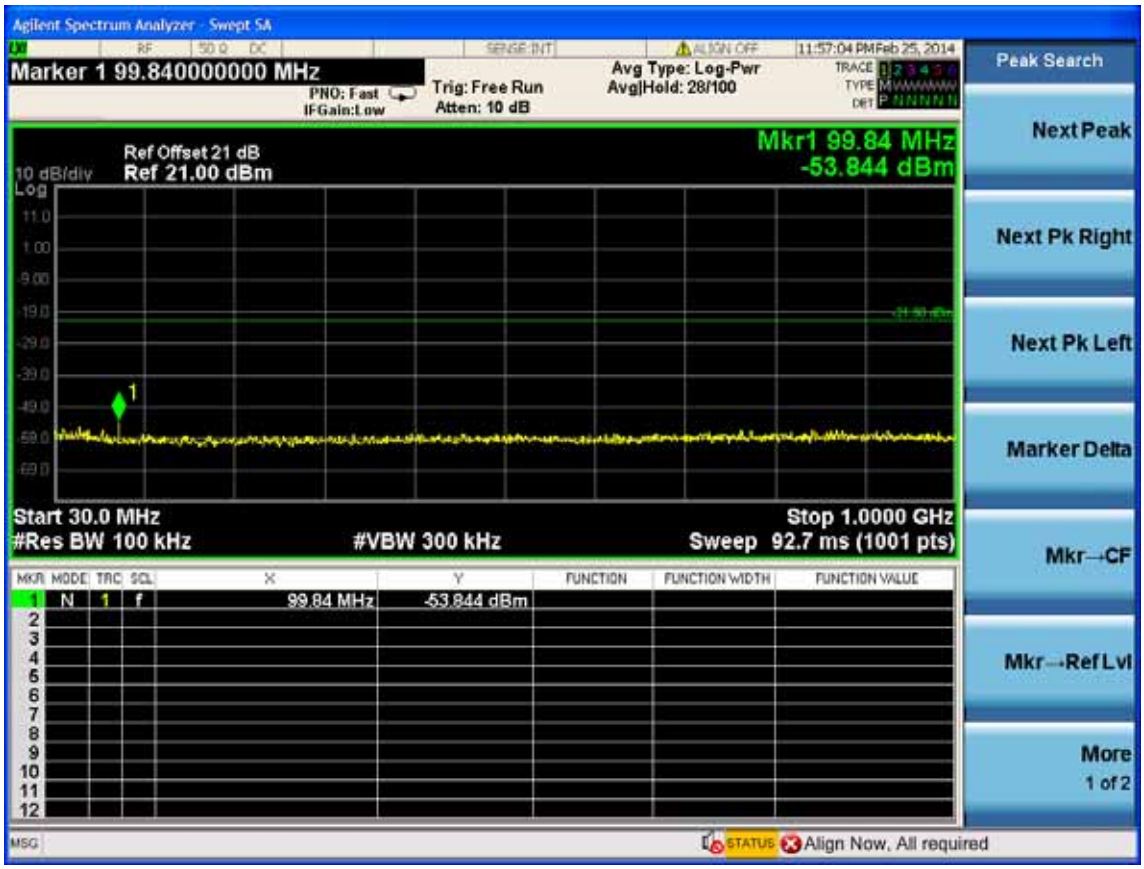

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.905000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 4/100
11:49:50 PM Feb 25, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 23.905 GHz
-53.782 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.905 GHz -53.782 dBm
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 38/100
11:50:04 PM Feb 25, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-53.917 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -53.917 dBm
Align Now, All required

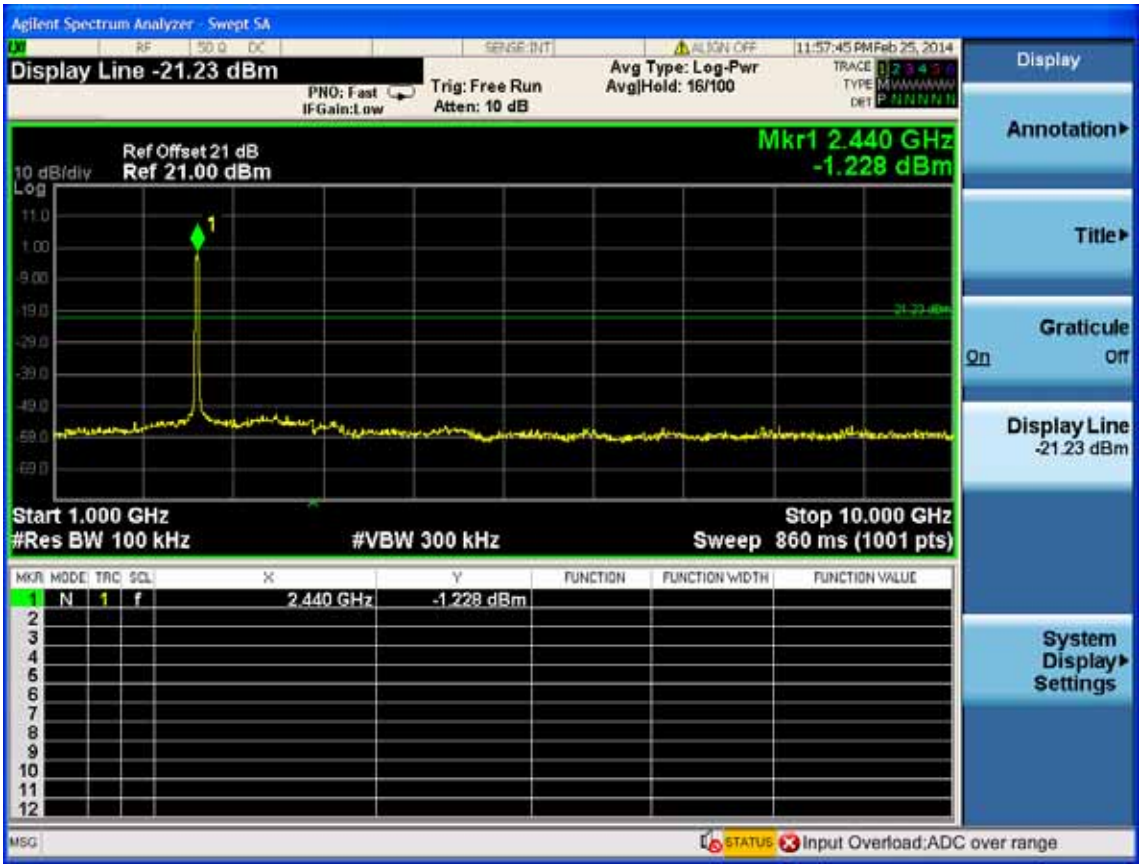
Test Mode: IEEE 802.11n HT20 TX
Test CH1: 2412MHz

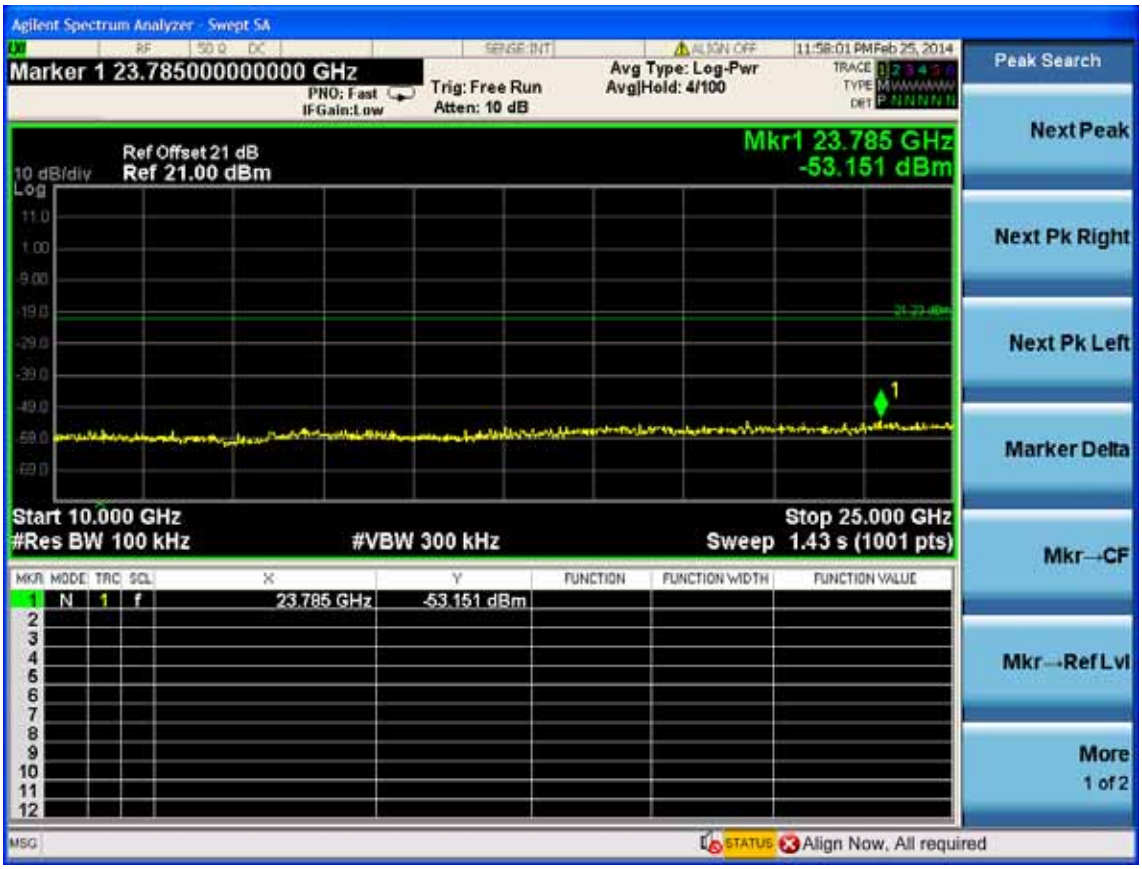


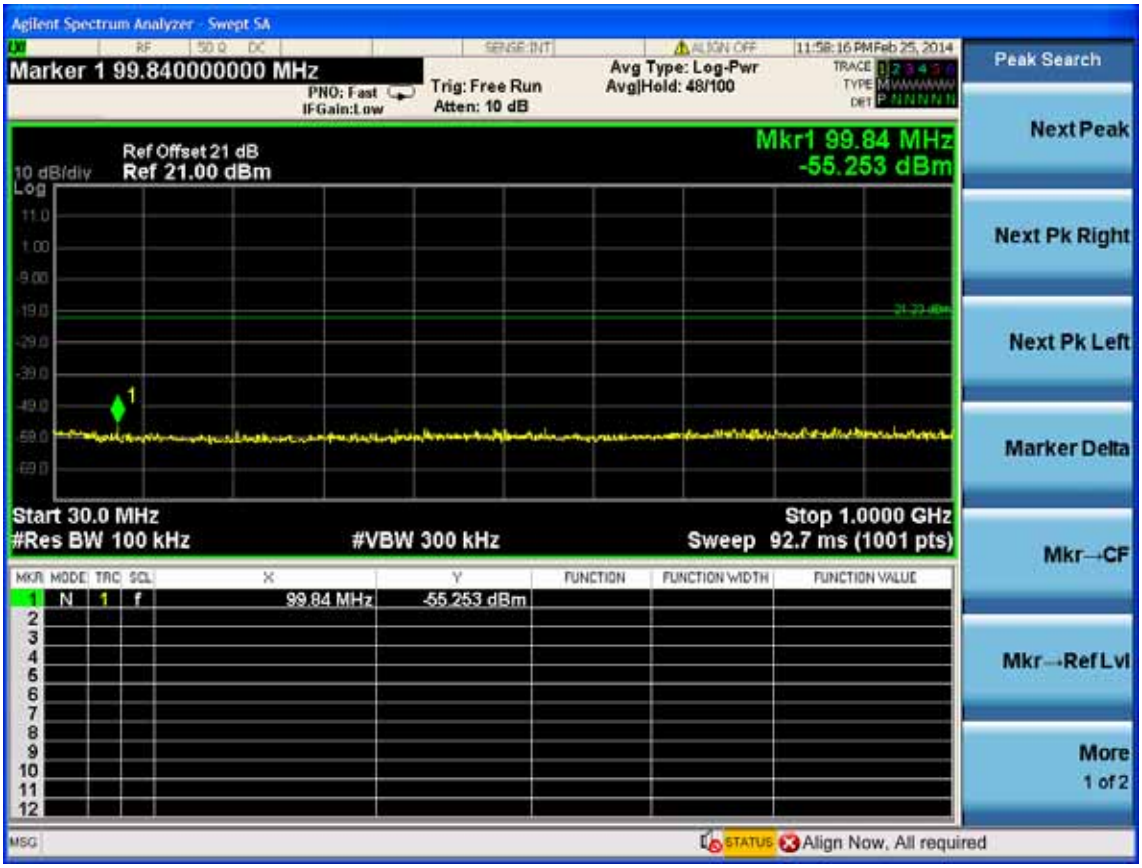

Agilent Spectrum Analyzer - Swept SA
Marker 1 24.430000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
11:56:50 PM Feb 25, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 24.430 GHz
-53.672 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 24.430 GHz -53.672 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 28/100
11:57:04 PM Feb 25, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-53.844 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -53.844 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

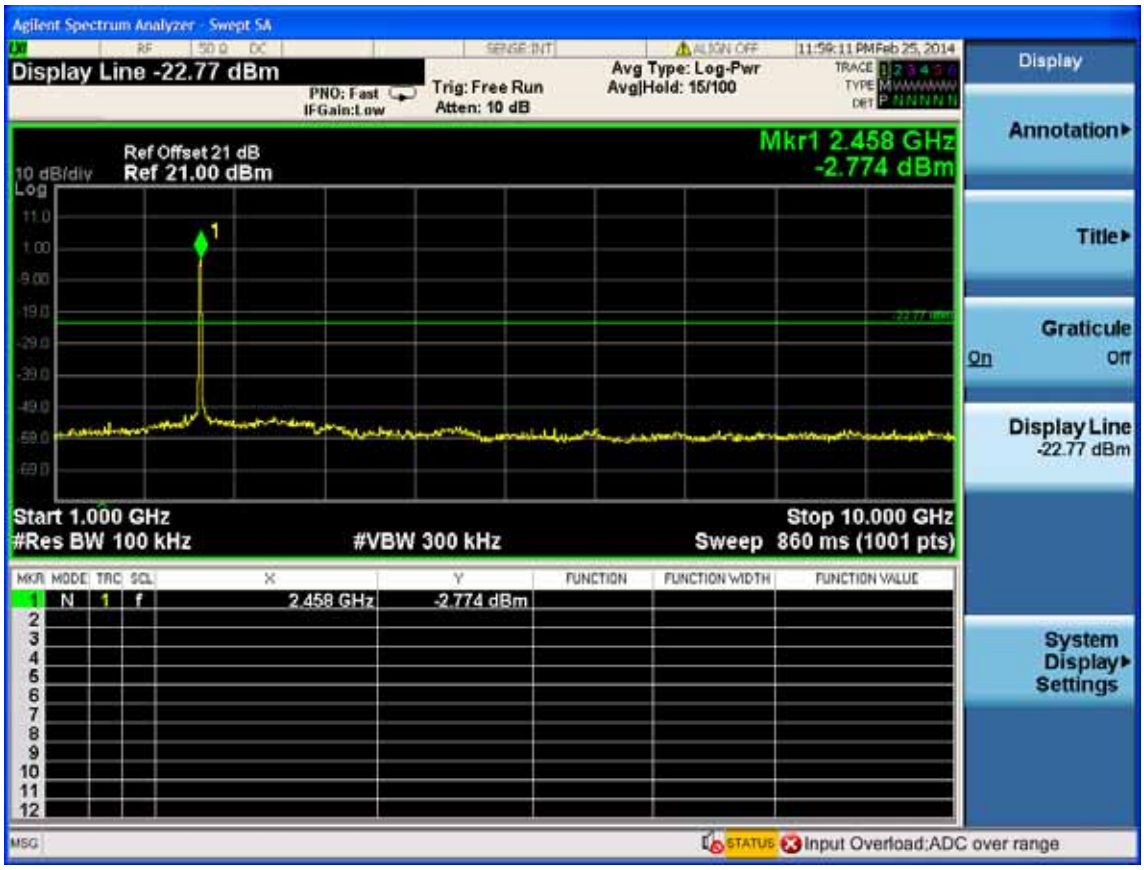
Test CH6: 2437MHz

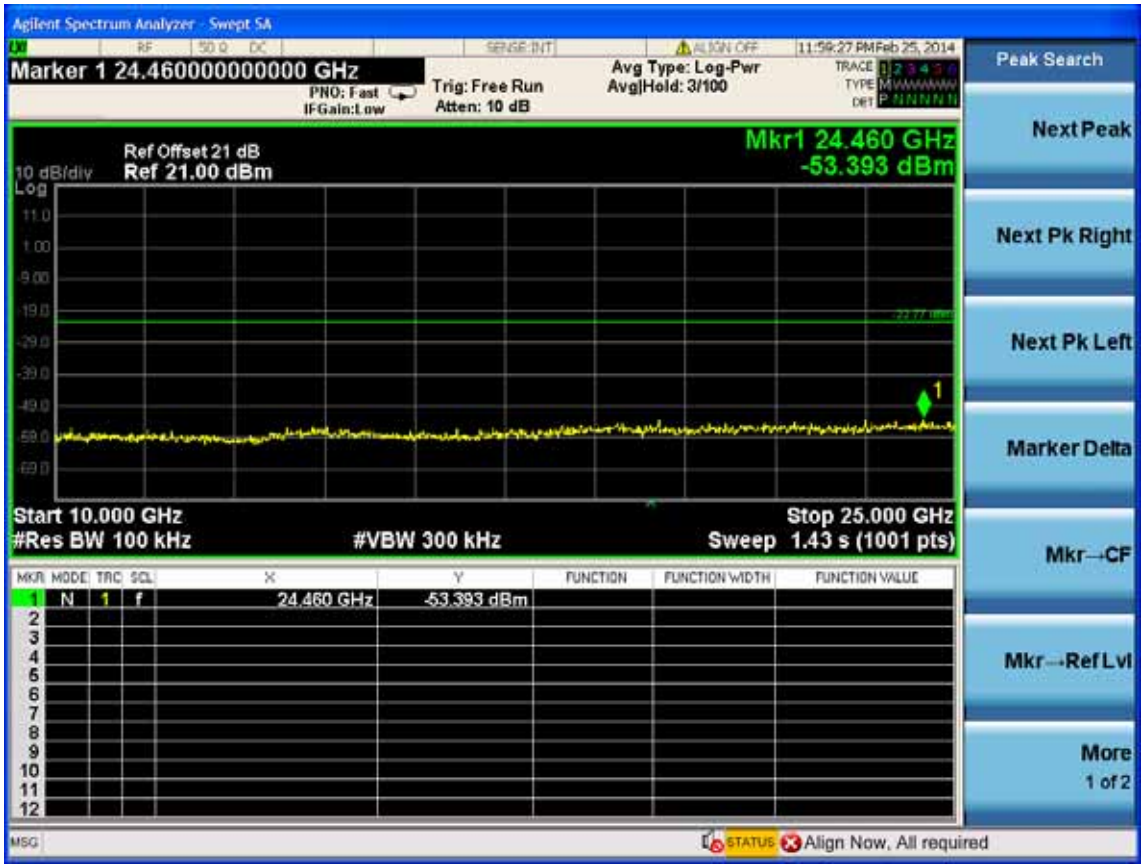


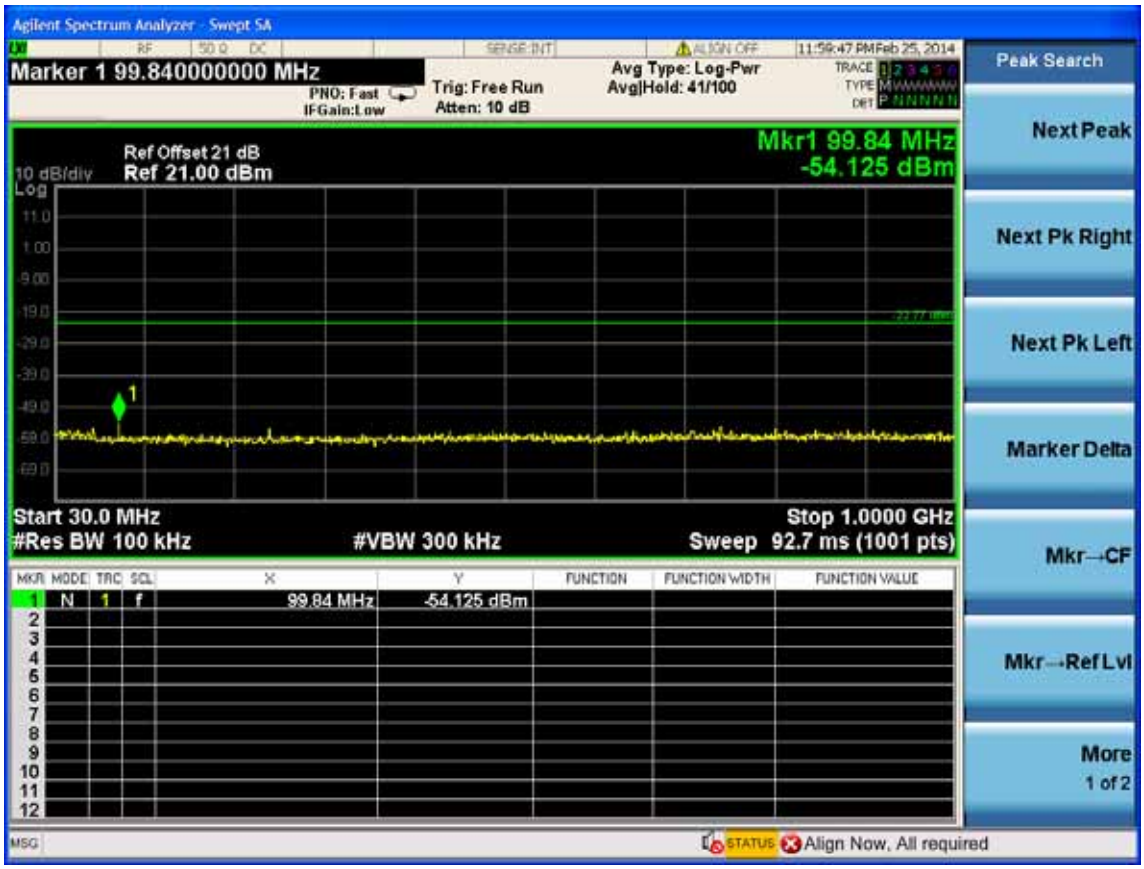




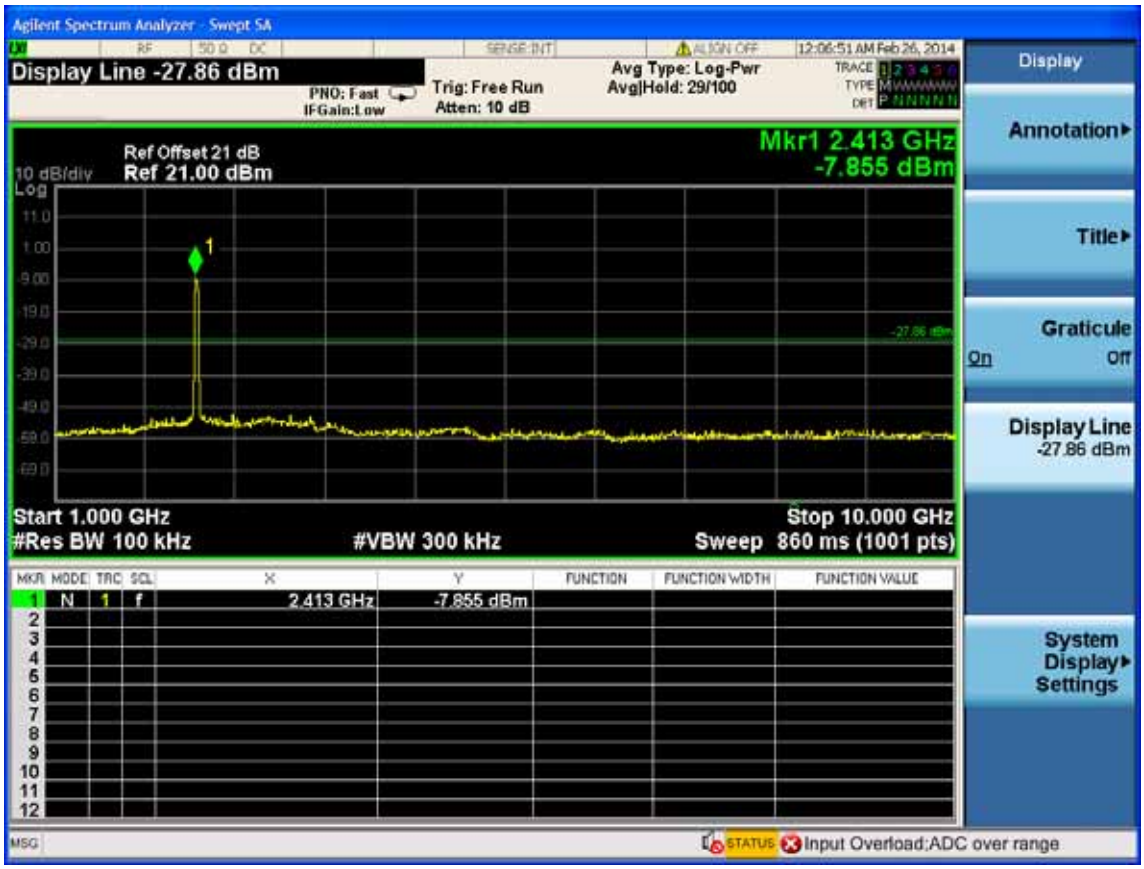
Test CH11: 2462MHz

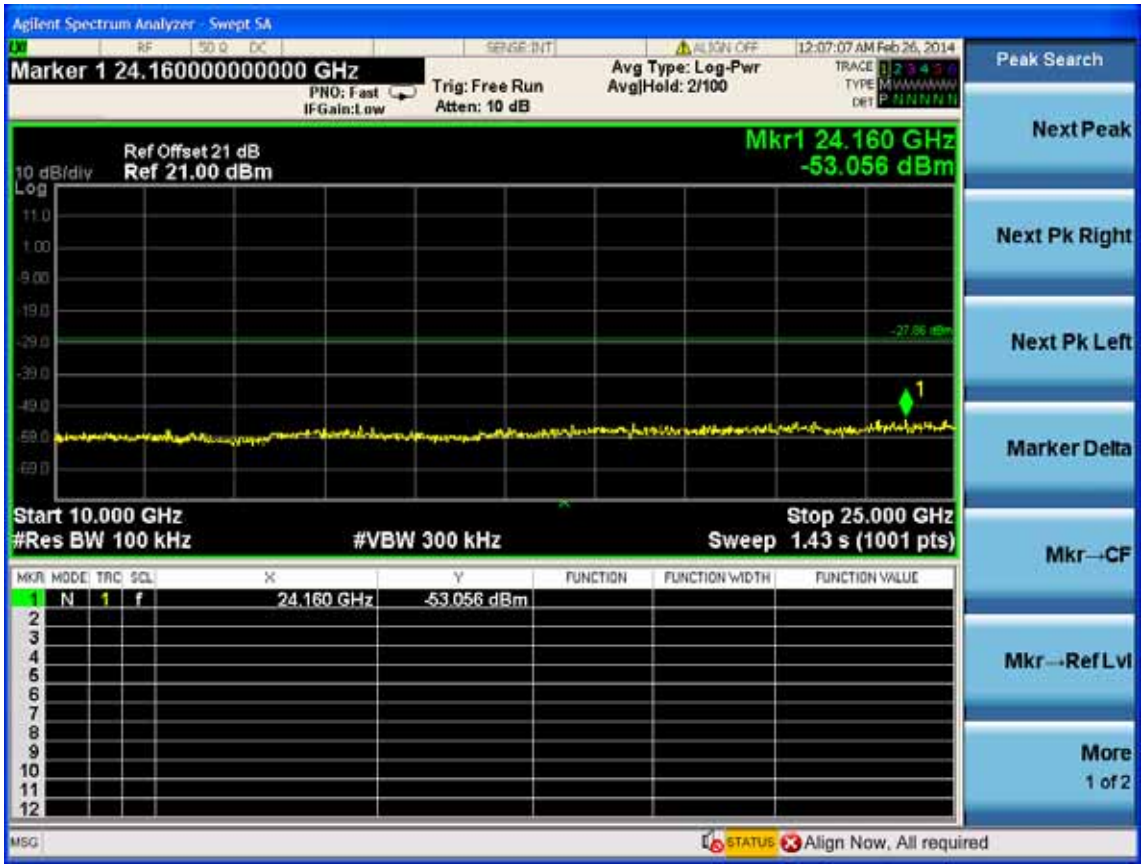


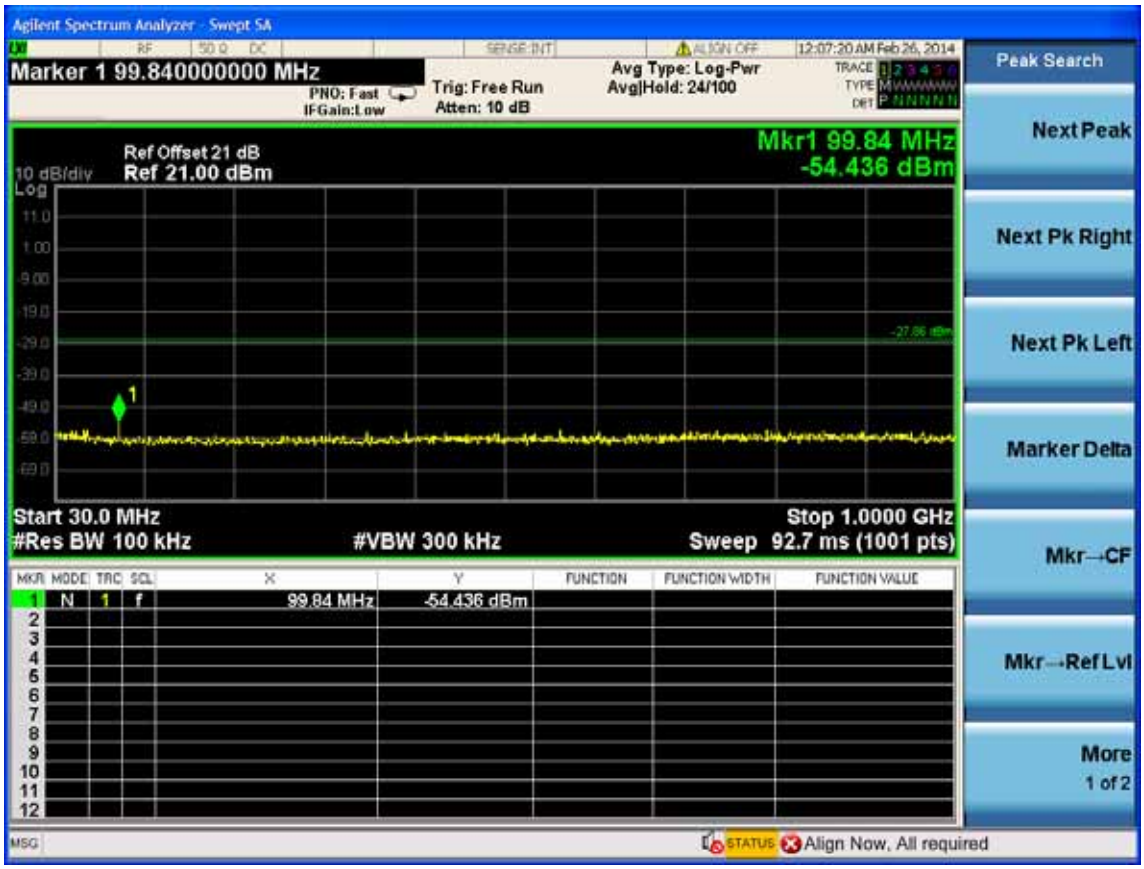

Agilent Spectrum Analyzer - Swept SA
Marker 1 24.460000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
11:59:27 PM Feb 25, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 24.460 GHz
-53.393 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 24.460 GHz -53.393 dBm
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 41/100
11:59:47 PM Feb 25, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-54.125 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -54.125 dBm
Align Now, All required

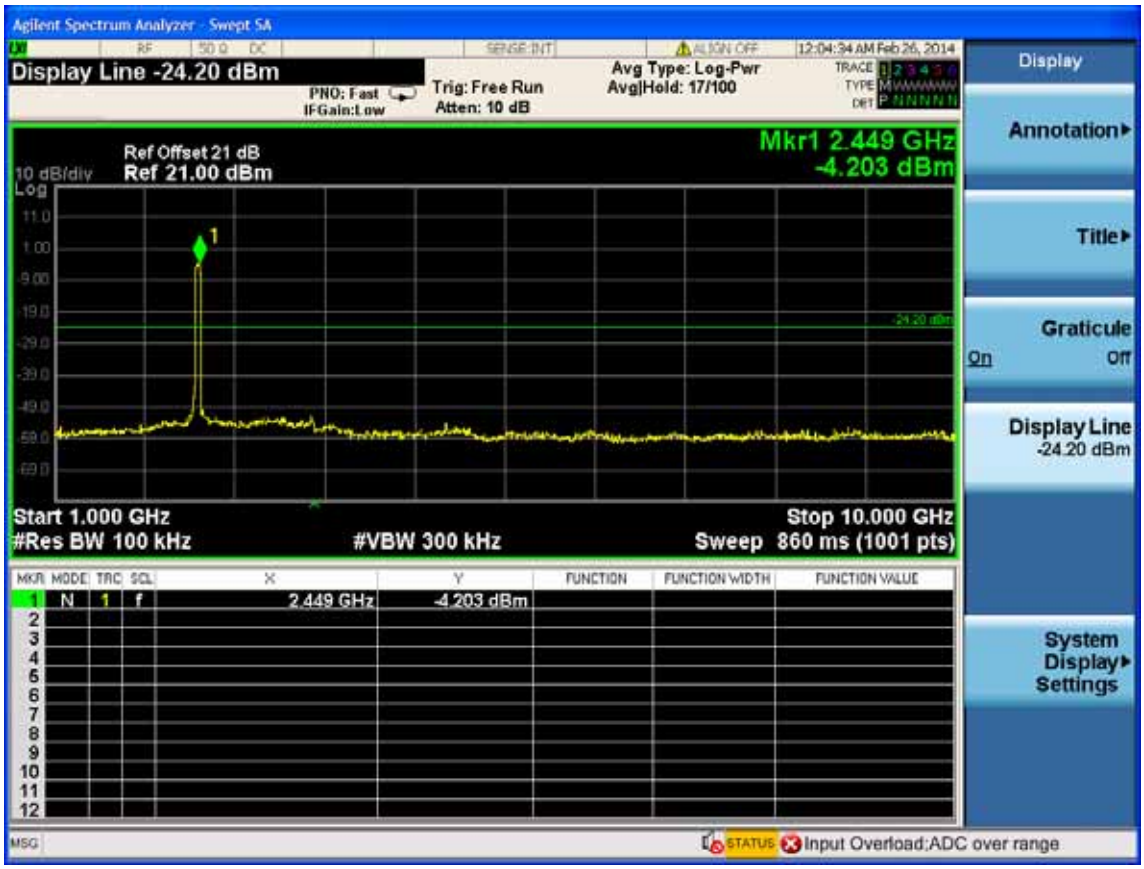
Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz

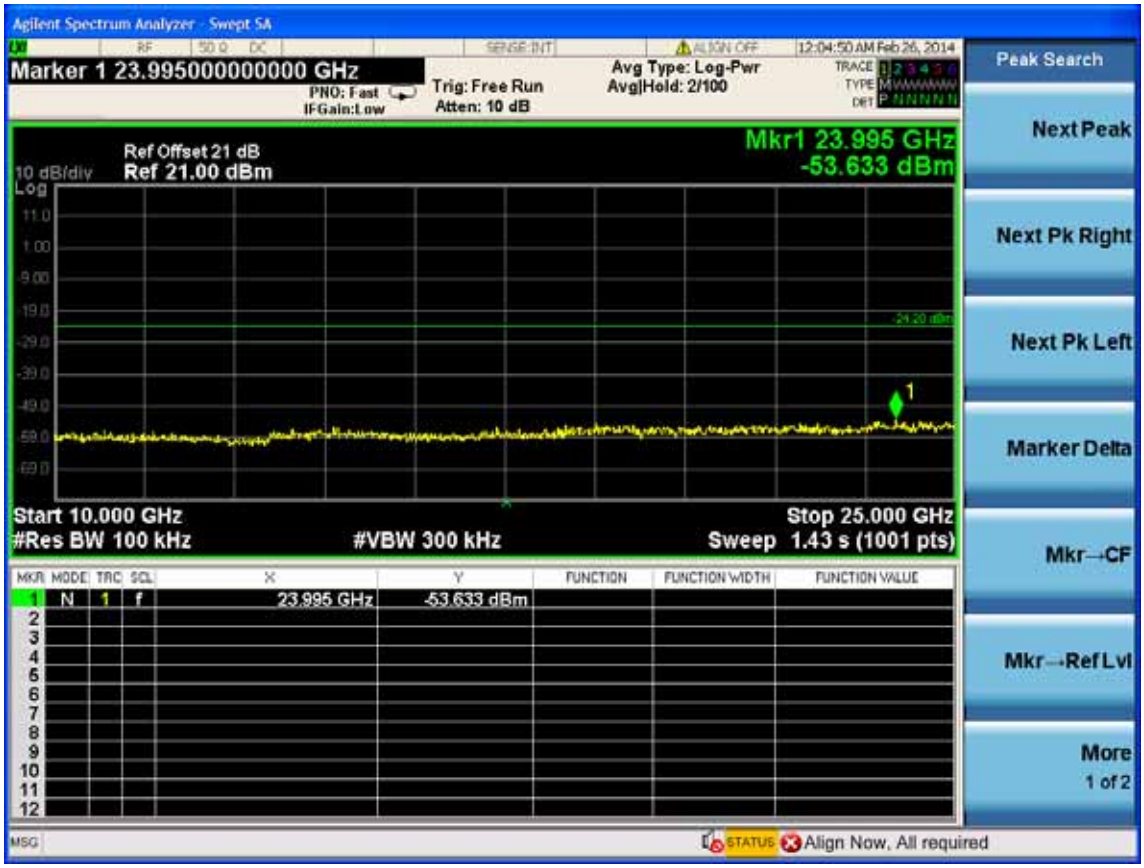


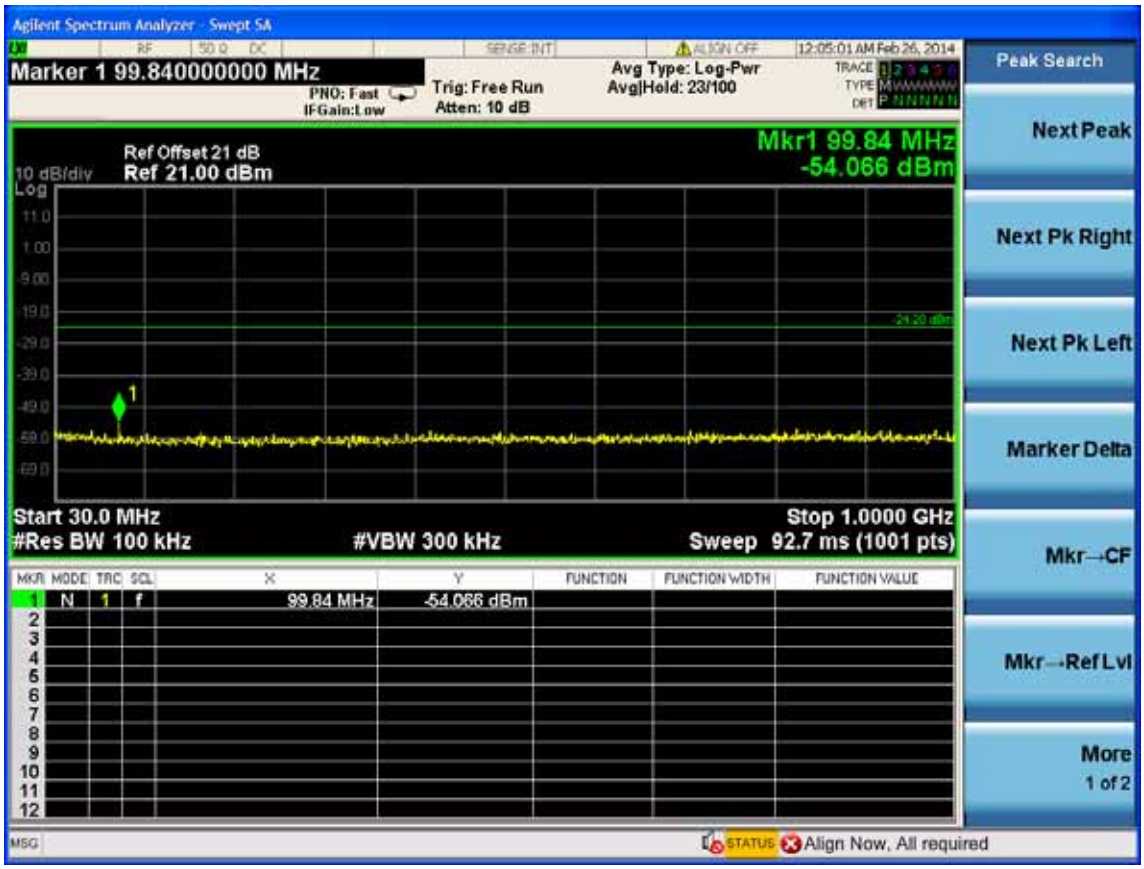

Agilent Spectrum Analyzer - Swept SA
Marker 1 24.160000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 2/100
12:07:07 AM Feb 26, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 24.160 GHz
-53.056 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 24.160 GHz -53.056 dBm
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 24/100
12:07:20 AM Feb 26, 2014
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-54.436 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -54.436 dBm
Align Now, All required

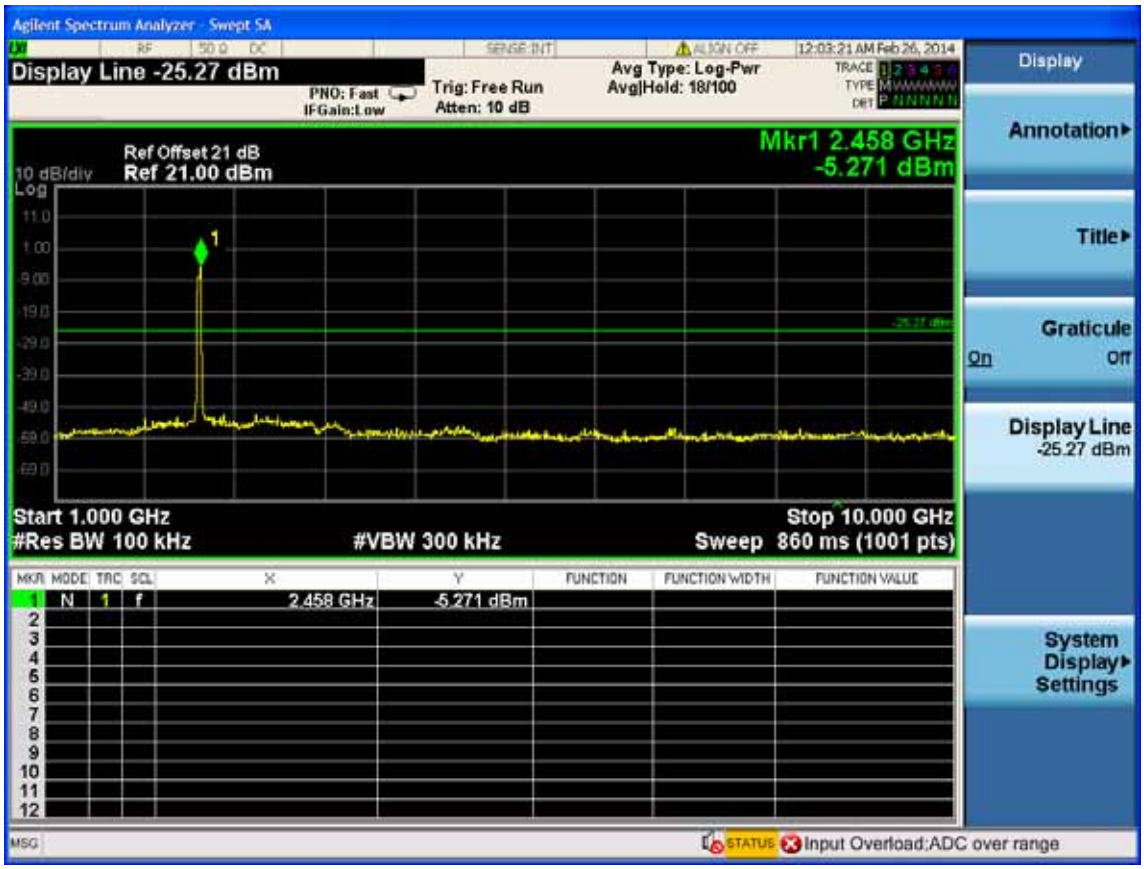
Test CH4: 2437MHz

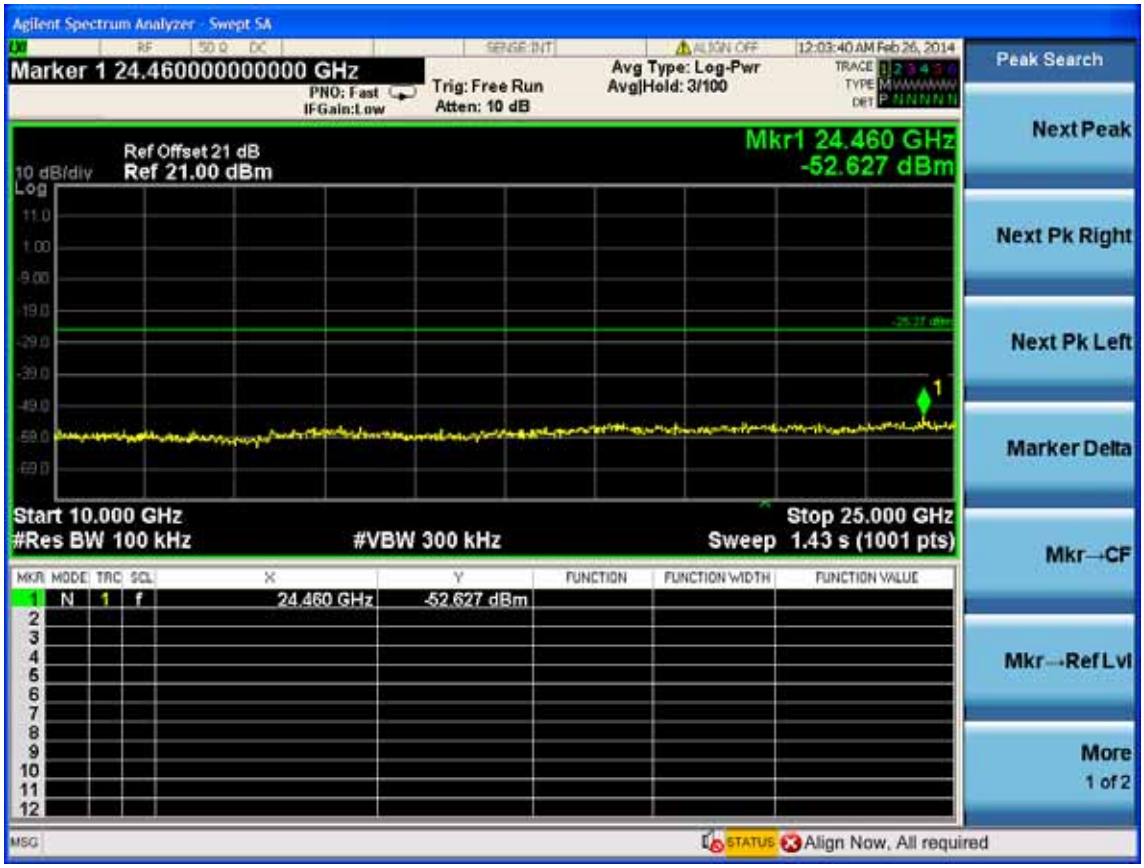


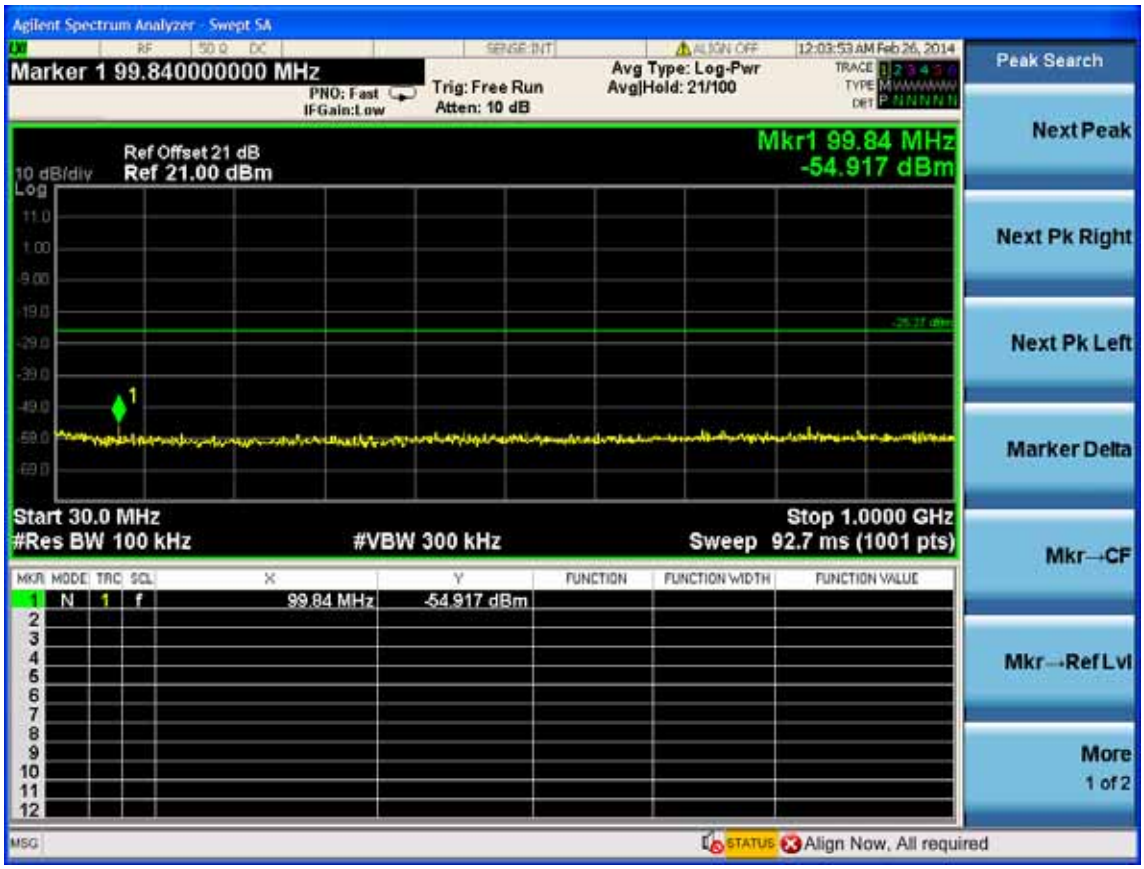

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.995000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 2/100
12:04:50 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 23.995 GHz
-53.633 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.995 GHz -53.633 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 23/100
12:05:01 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-54.066 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -54.066 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

Test CH7: 2452MHz




Agilent Spectrum Analyzer - Swept SA
Marker 1 24.460000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
12:03:40 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 24.460 GHz
-52.627 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 24.460 GHz -52.627 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

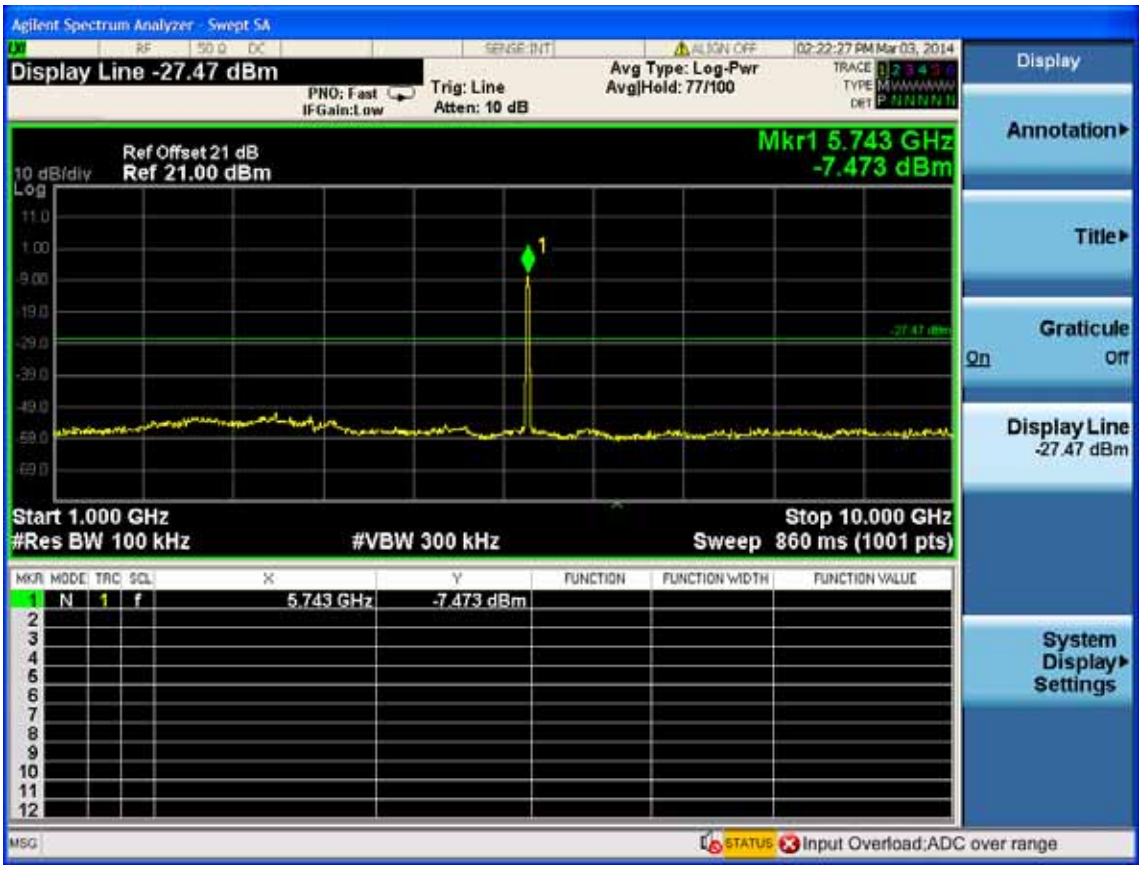

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 21/100
12:03:53 AM Feb 26, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-54.917 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -54.917 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

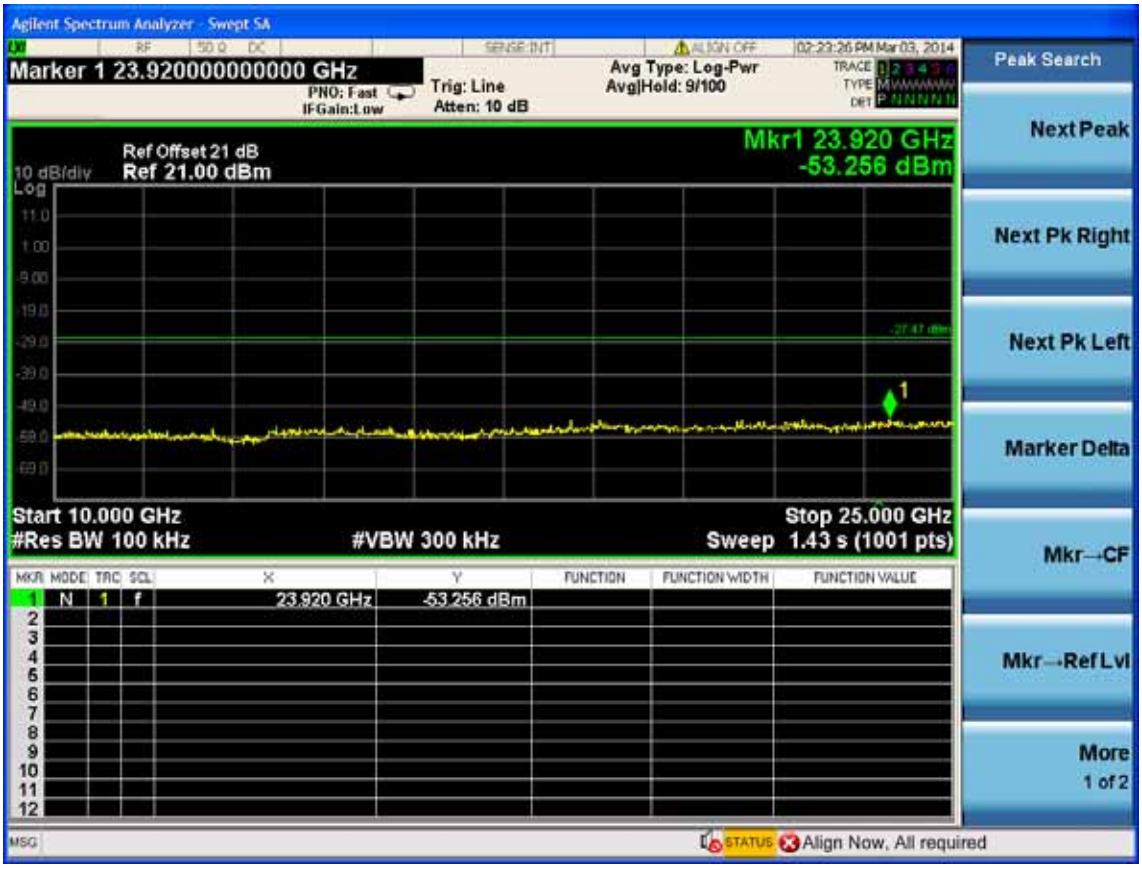
5.8G:

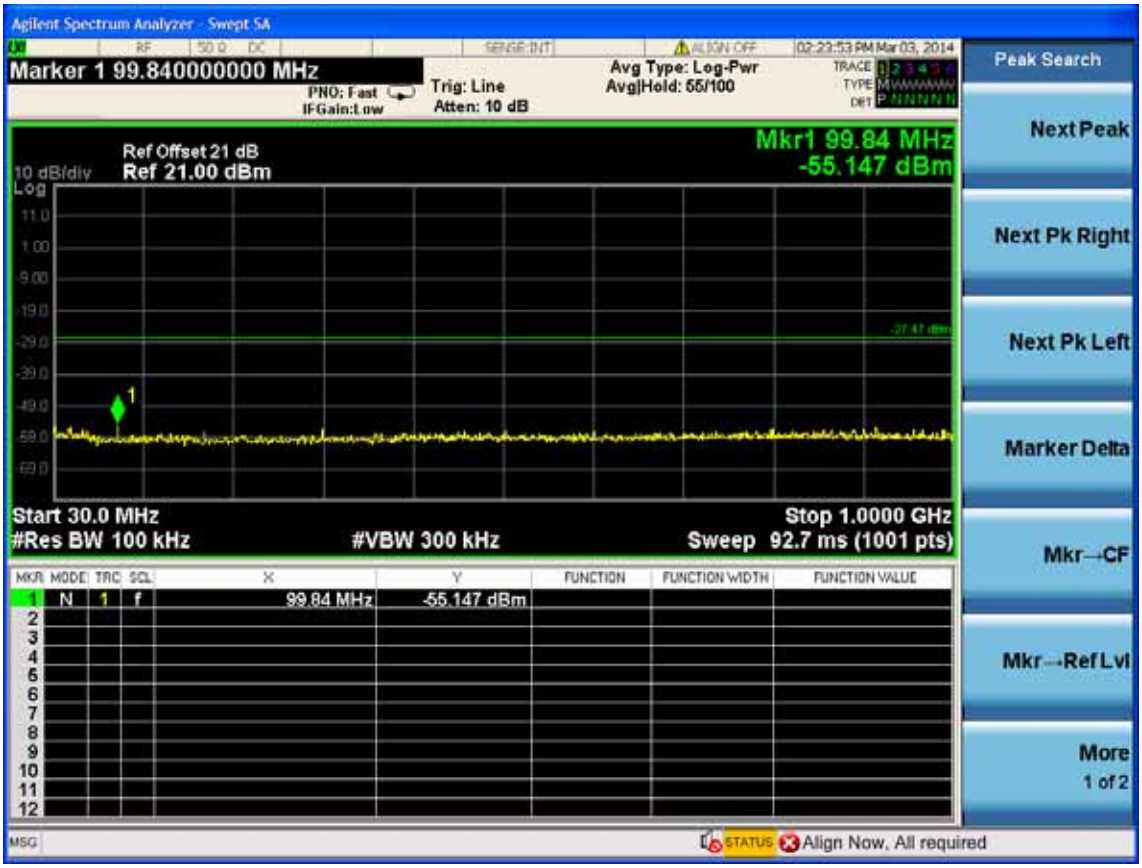
Chain A:

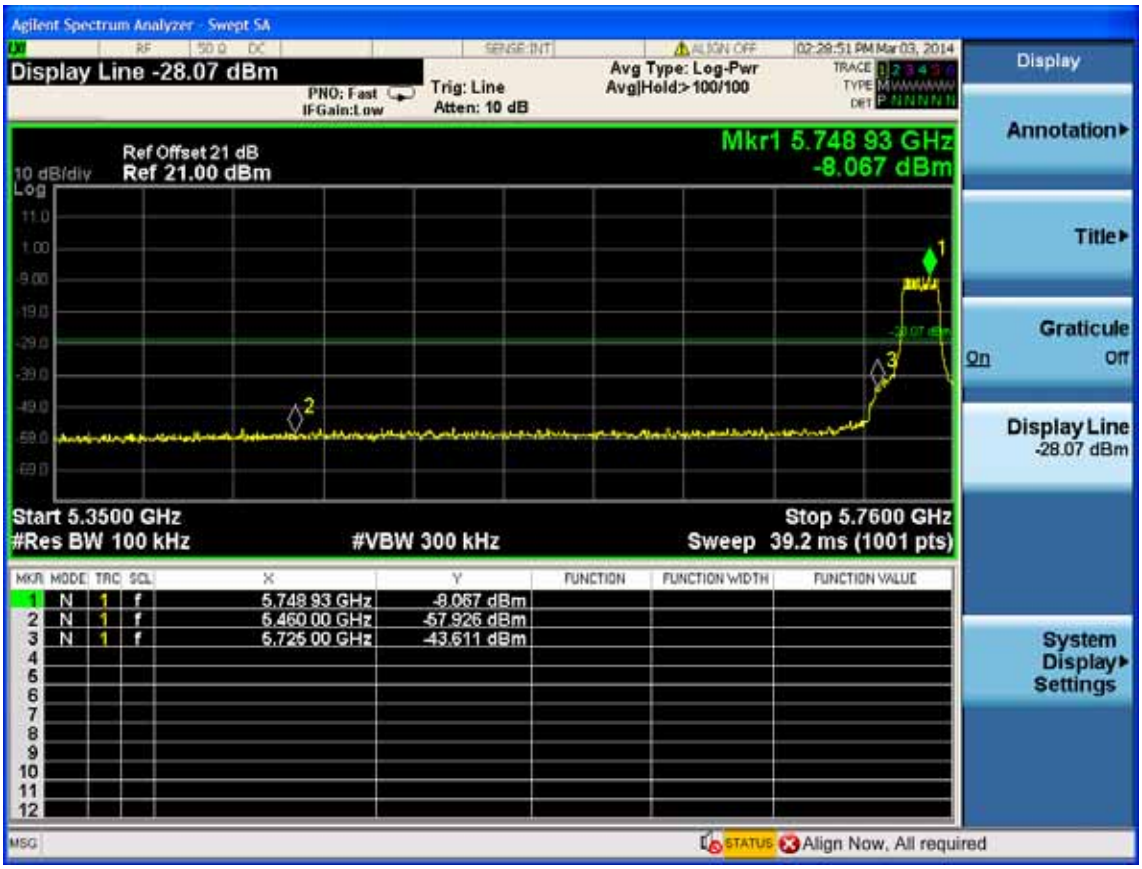
Test Mode: IEEE 802.11a TX

Test CH149: 5745MHz

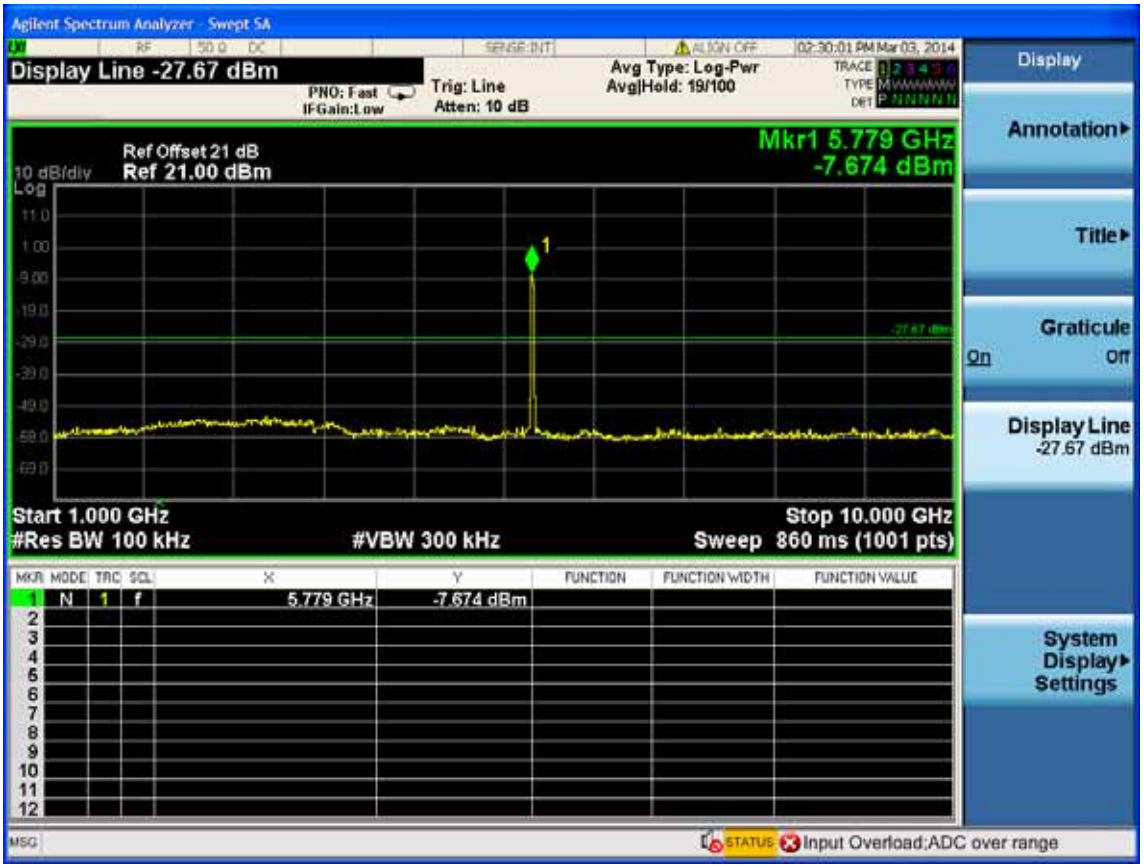


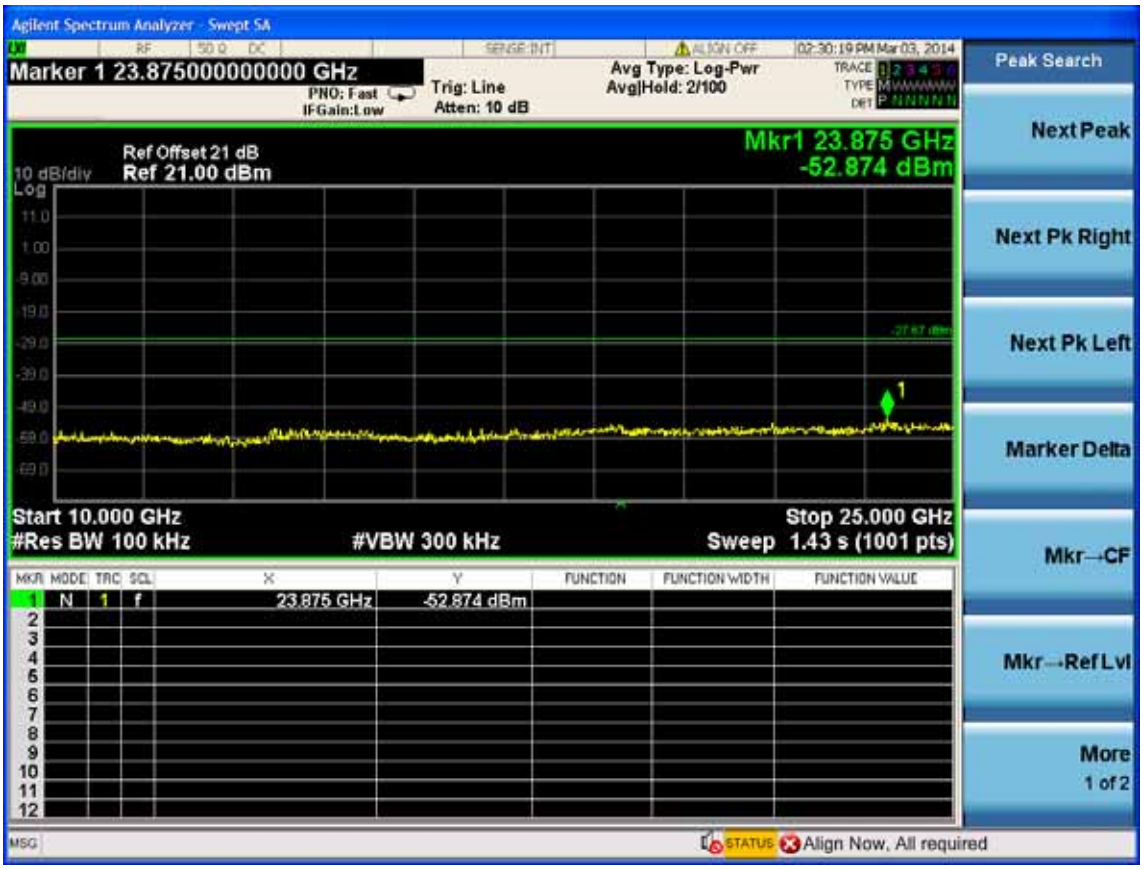


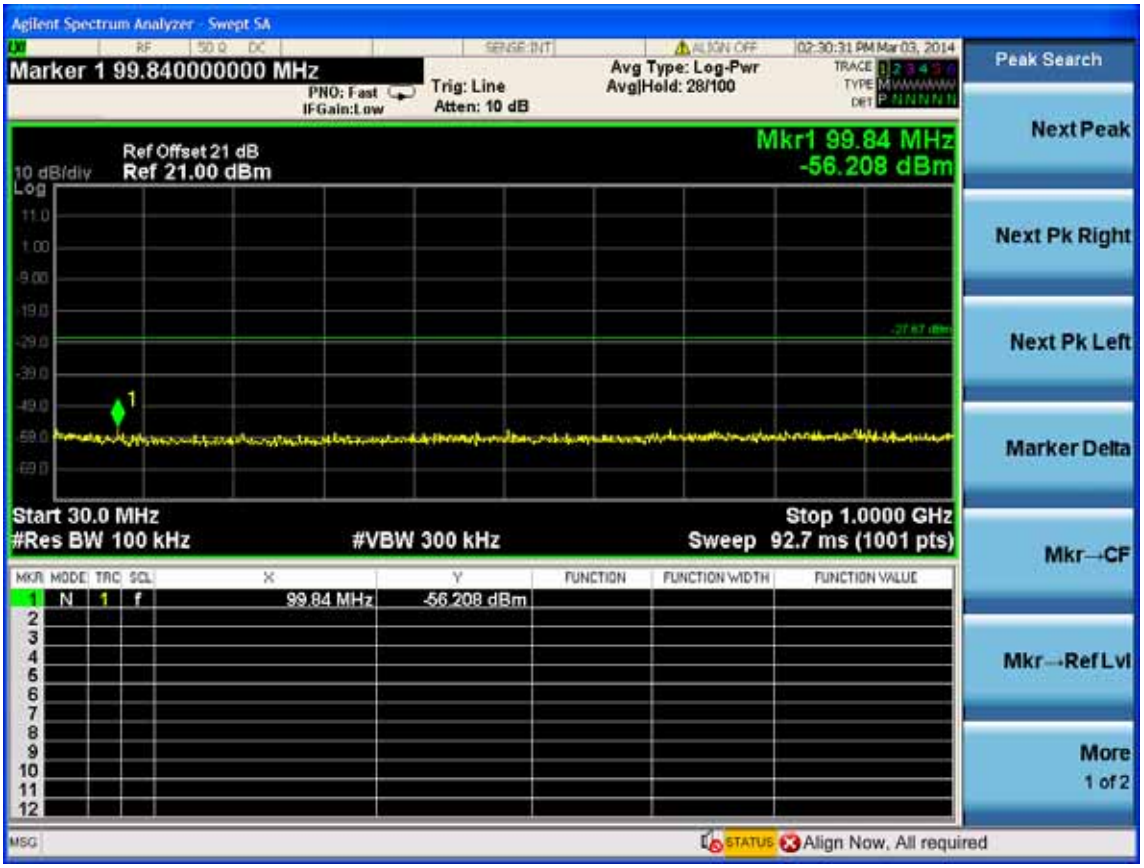

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Line
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 55/100
02:23:53 PM Mar 03, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-55.147 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -55.147 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Display Line -28.07 dBm
PNO: Fast
IFGain:Low
Trig: Line
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
02:28:51 PM Mar 03, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 5.748 93 GHz
-8.067 dBm
Start 5.3500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.7600 GHz
Sweep 39.2 ms (1001 pts)
1 N 1 f 5.748 93 GHz -8.067 dBm
2 N 1 f 5.460 00 GHz -57.926 dBm
3 N 1 f 5.725 00 GHz -43.611 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-28.07 dBm
System
Display
Settings
Align Now, All required

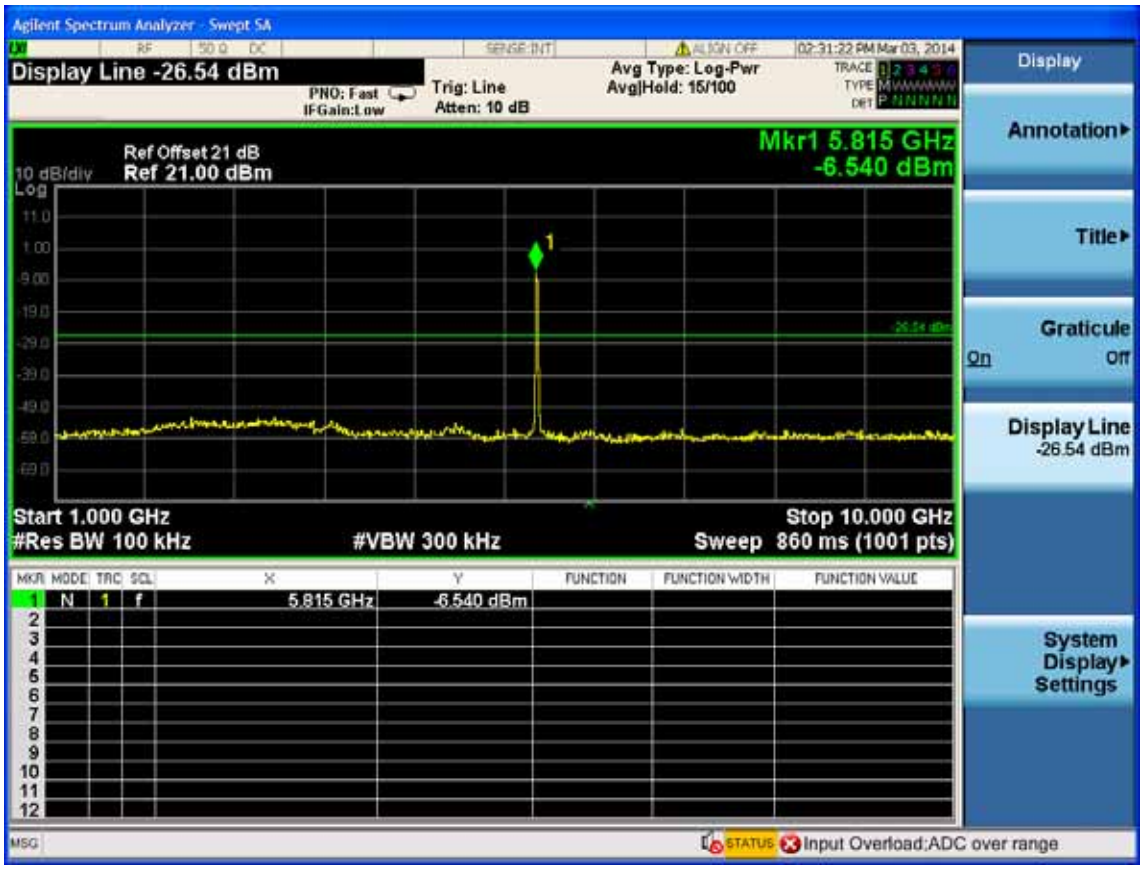
Test CH157: 5785MHz

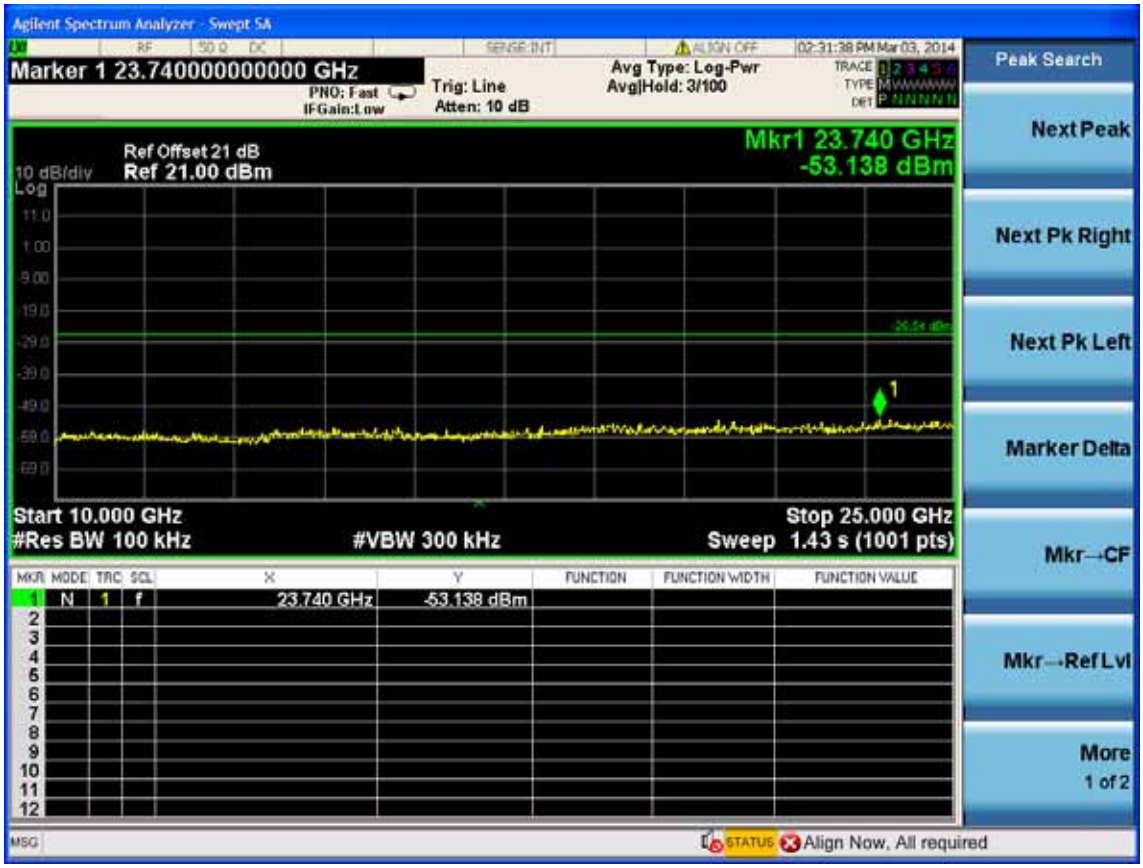


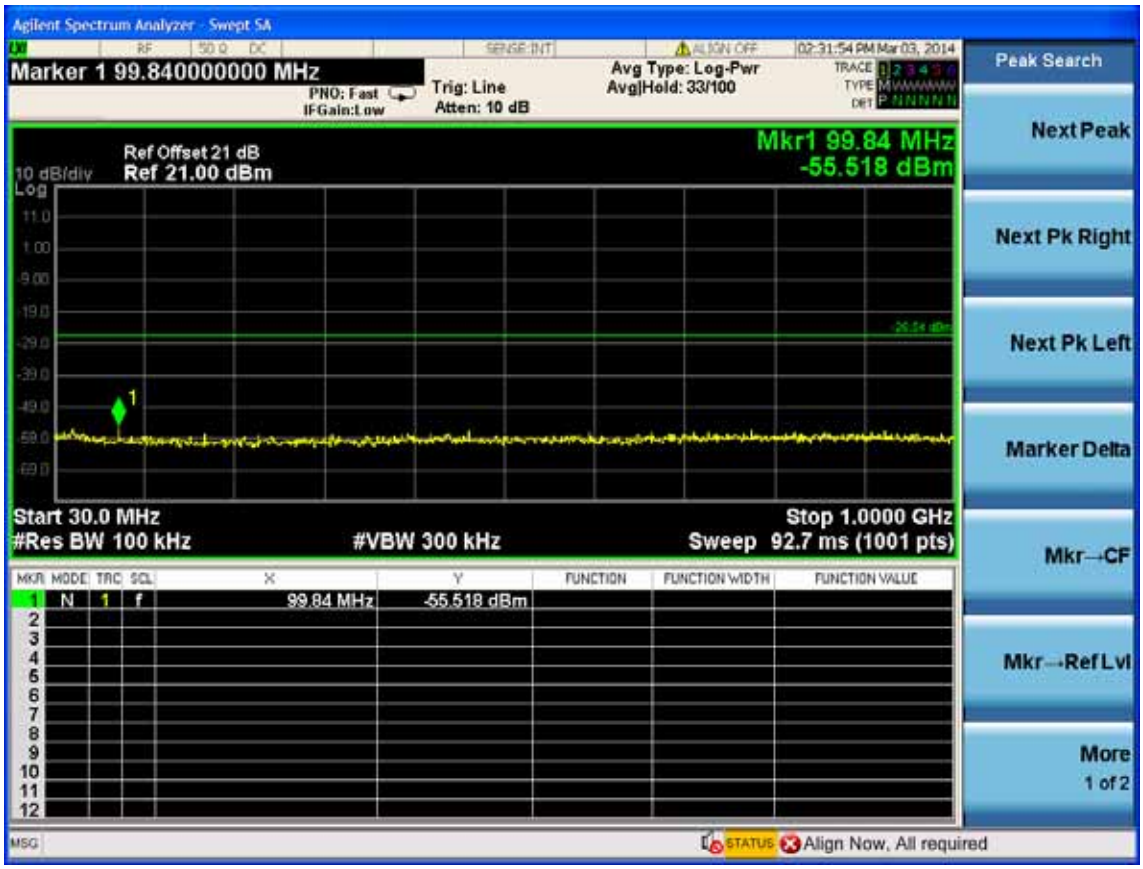


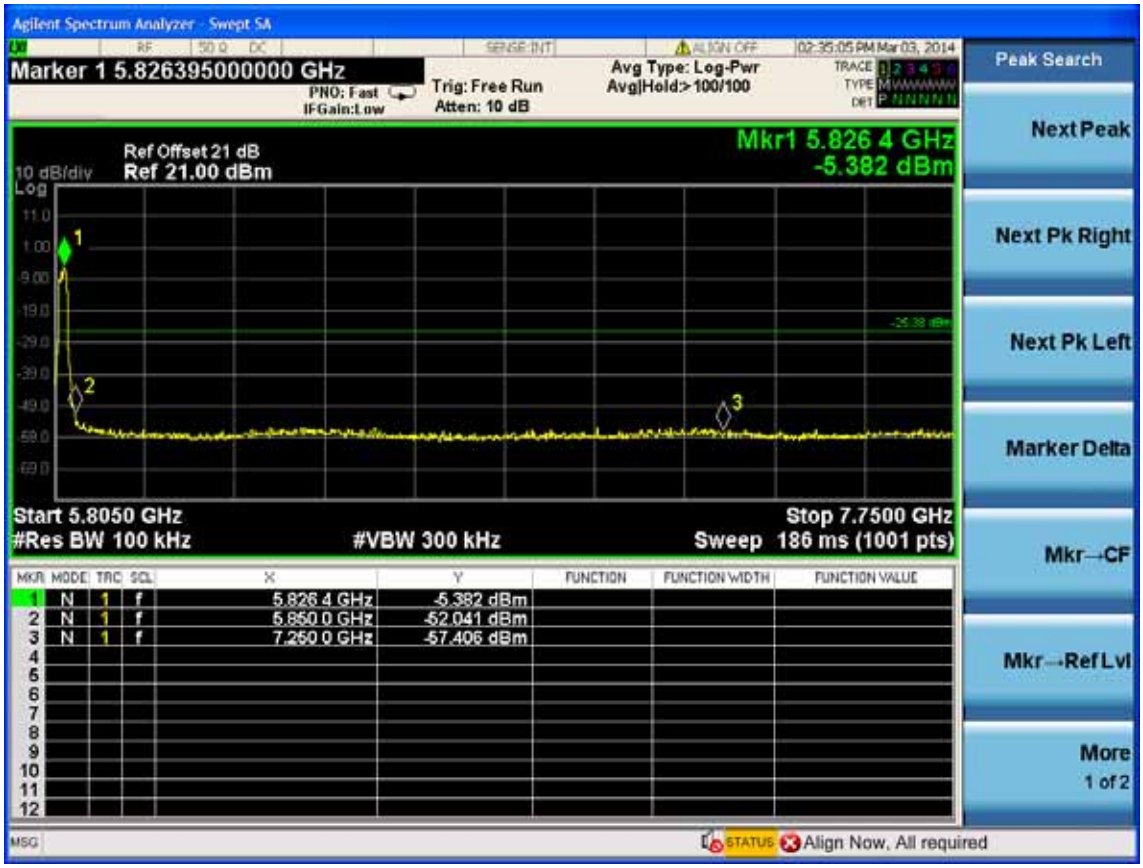


Test CH165: 5825MHz

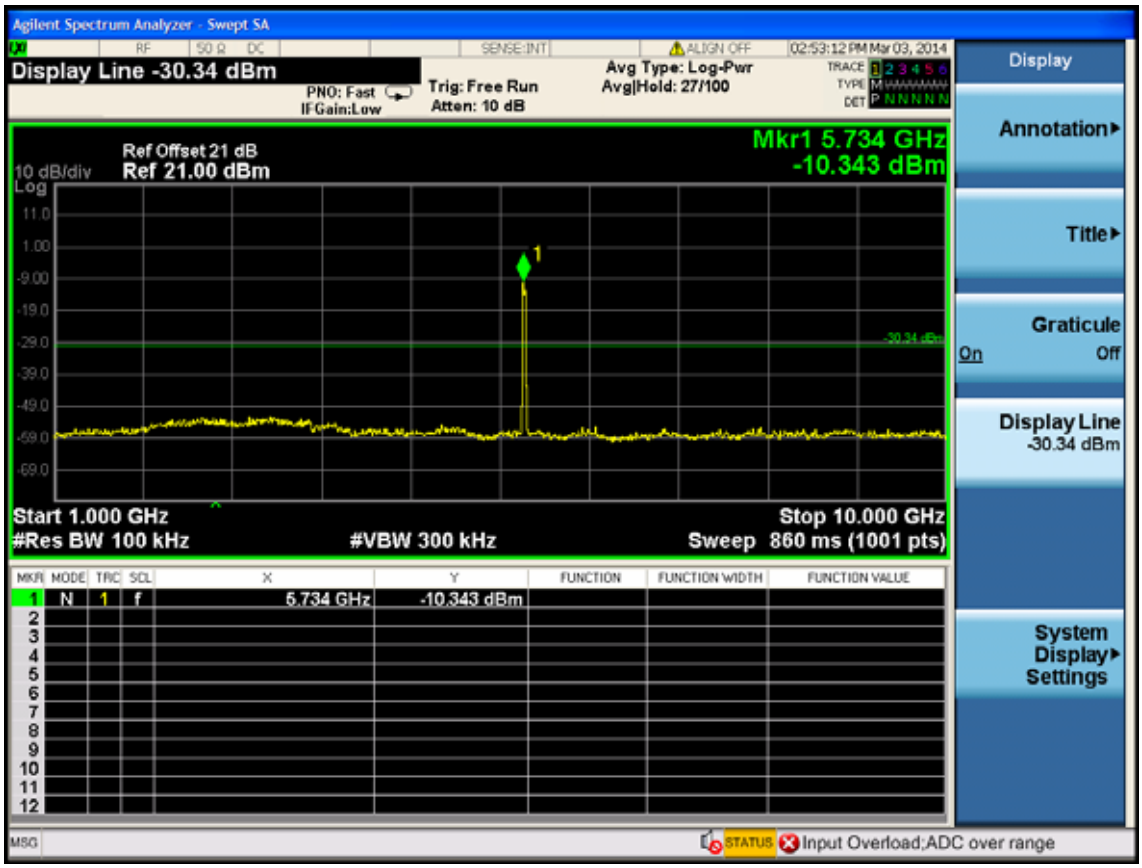


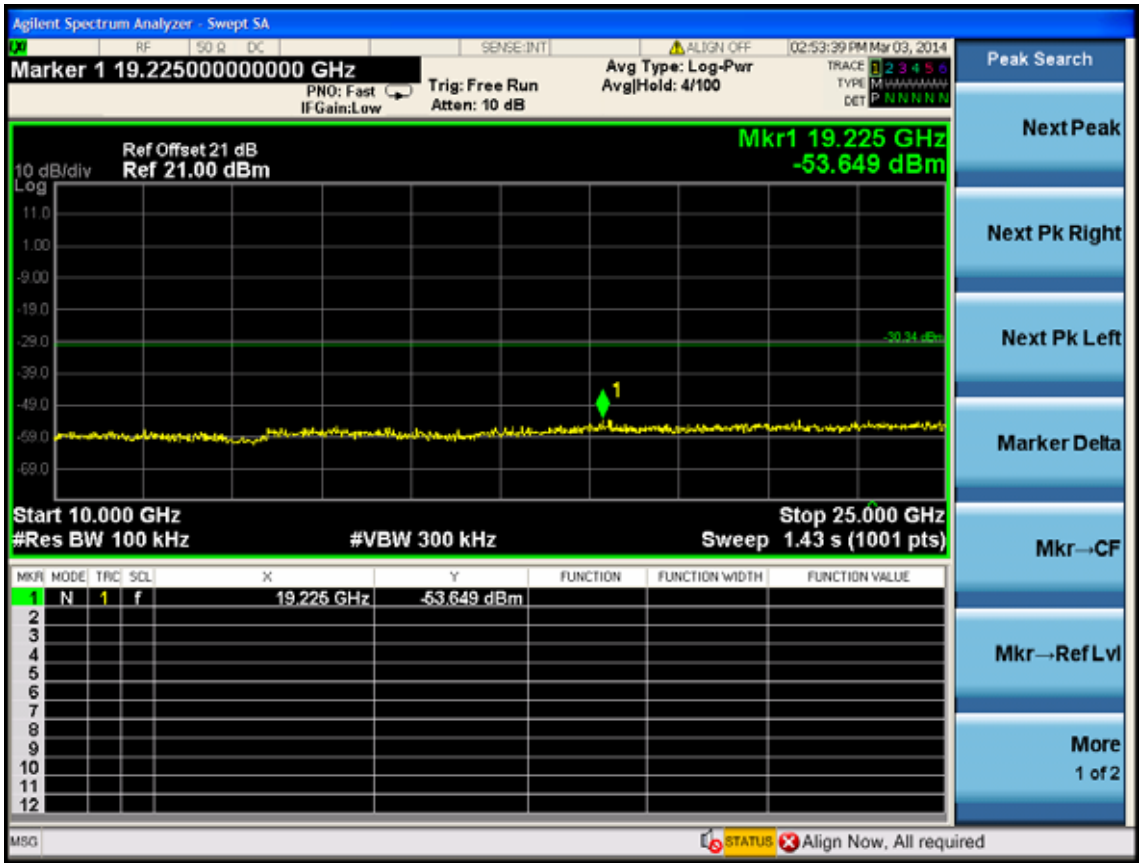

Agilent Spectrum Analyzer - Swept SA
Marker 1 23.740000000000 GHz
PNO: Fast
IFGain:Low
Trig: Line
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
02:31:38 PM Mar 03, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 23.740 GHz
-53.138 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.740 GHz -53.138 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

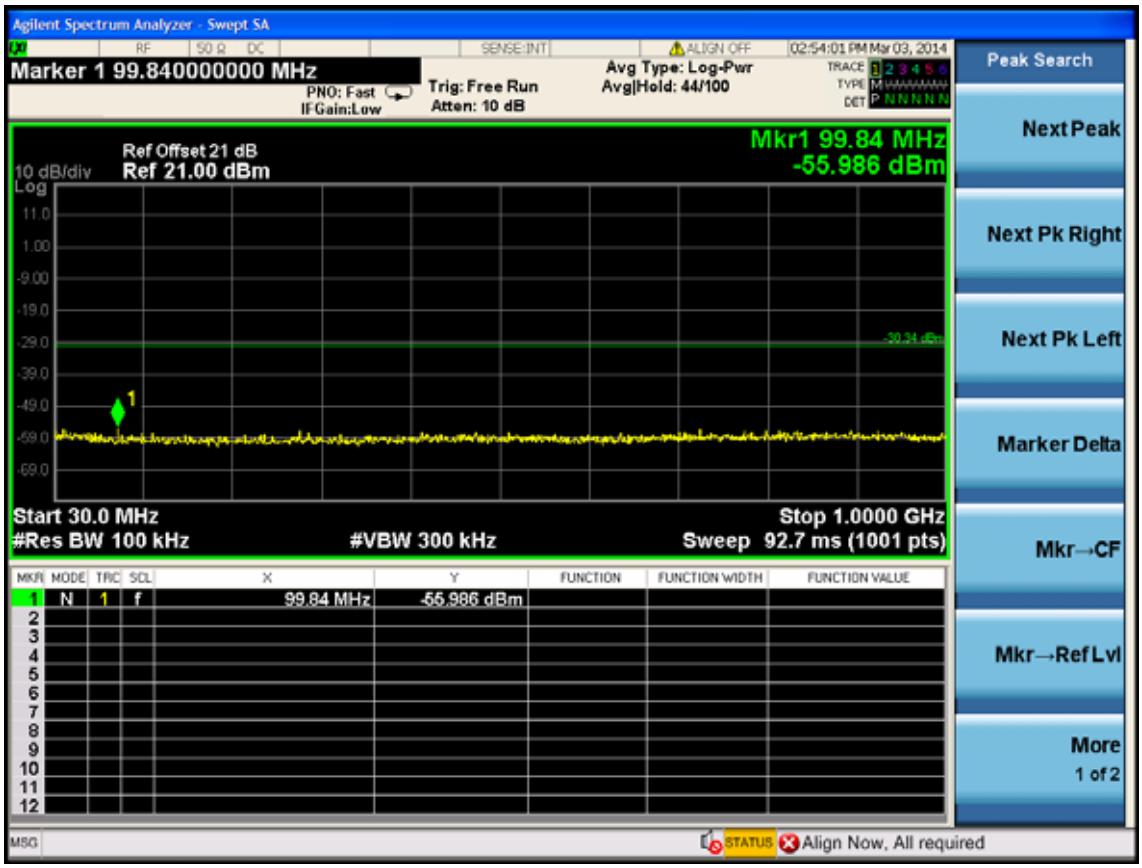

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Line
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 33/100
02:31:54 PM Mar 03, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-55.518 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -55.518 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

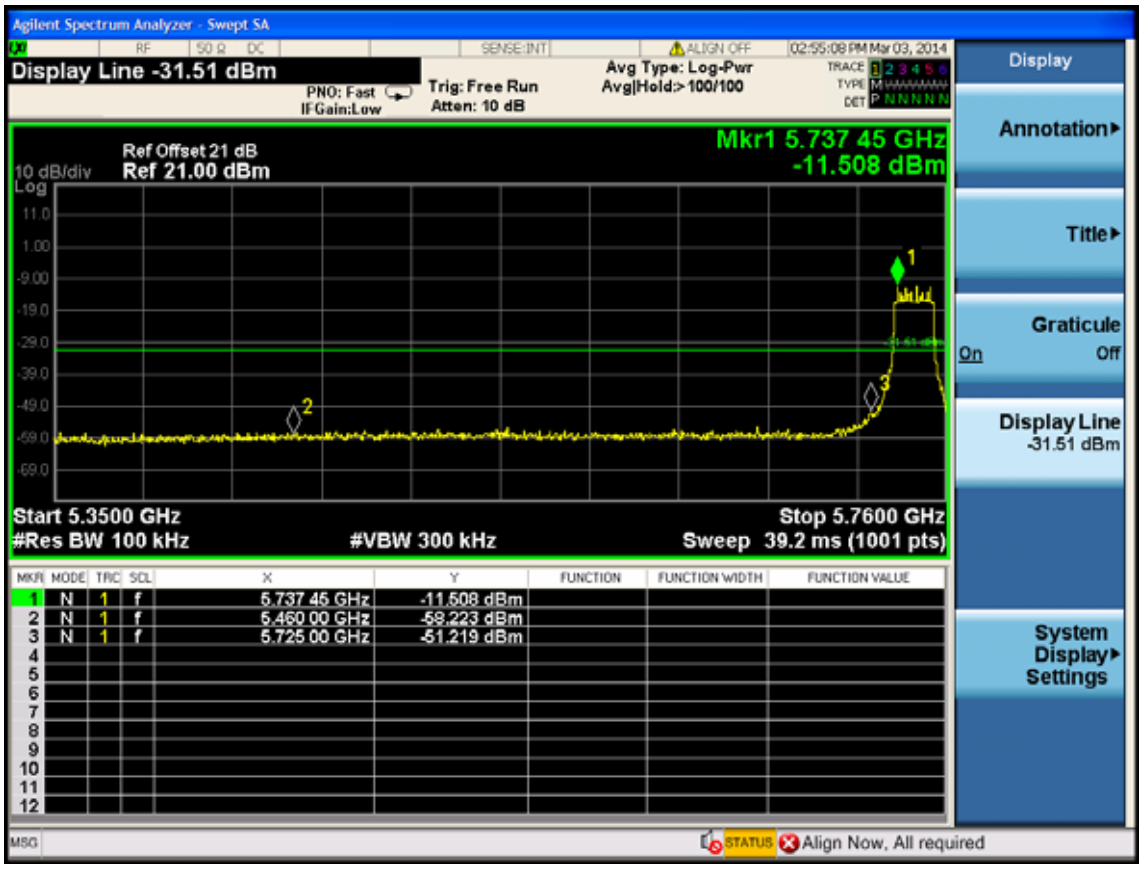


Test Mode: IEEE 802.11ac VHT20 TX
Test CH149: 5745MHz

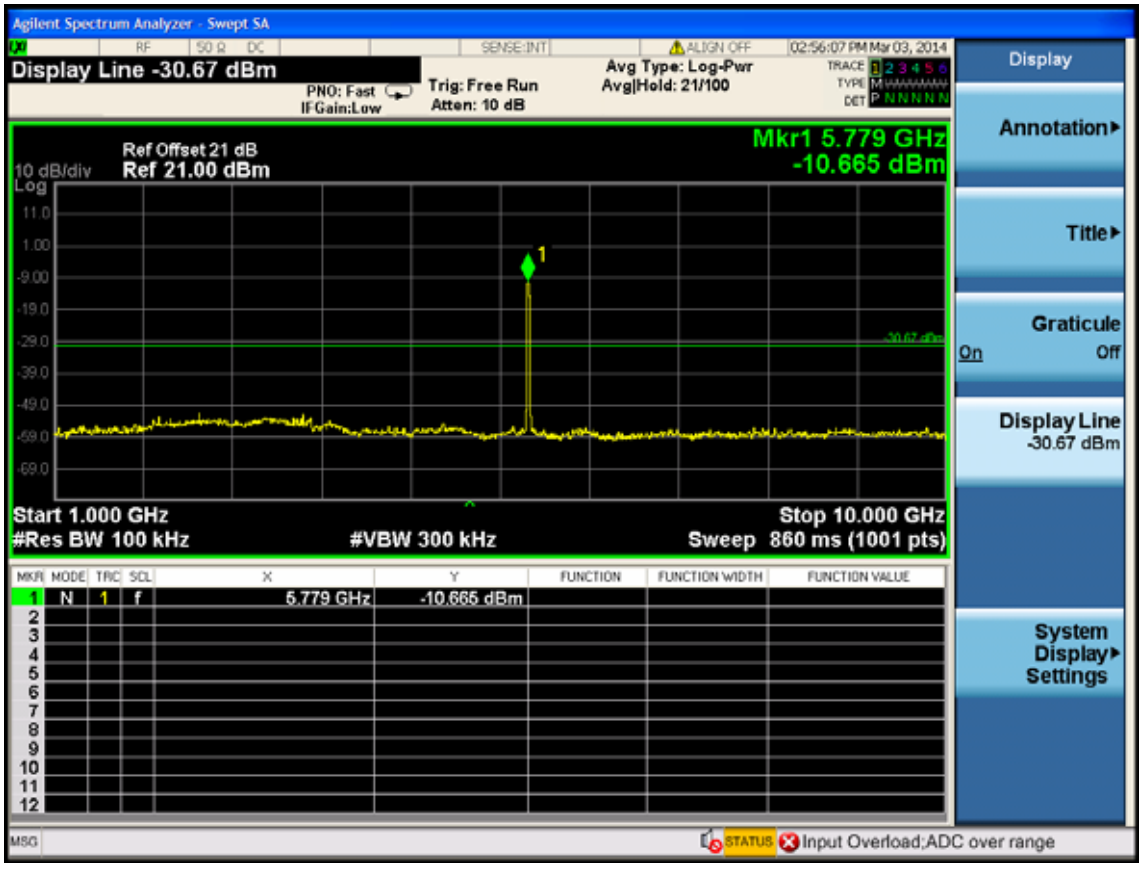


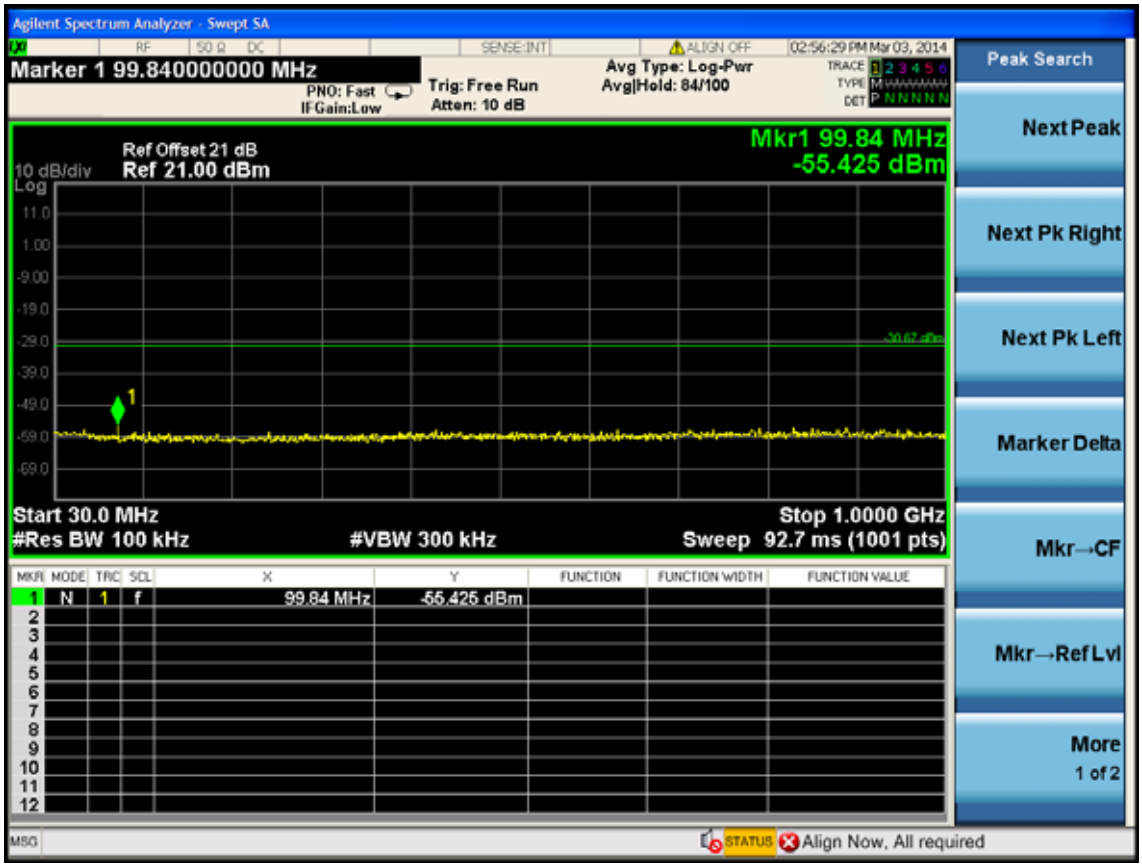

Agilent Spectrum Analyzer - Swept SA
Marker 1 19.225000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 4/100
02:53:39 PM Mar 03, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 19.225 GHz
-53.649 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 19.225 GHz -53.649 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required

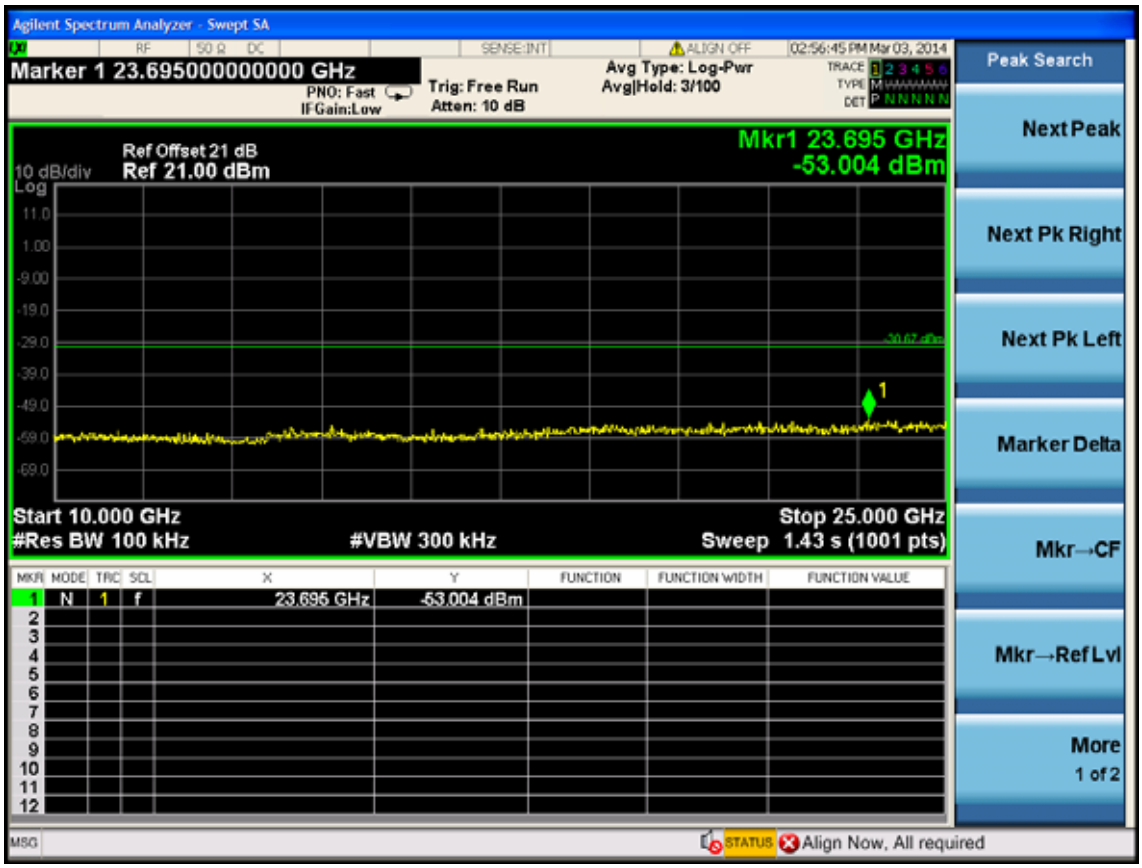

Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 44/100
02:54:01 PM Mar 03, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-55.986 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -55.986 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required



Test CH157: 5785MHz




Agilent Spectrum Analyzer - Swept SA
Marker 1 99.840000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 84/100
02:56:29 PM Mar 03, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 99.84 MHz
-55.425 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 92.7 ms (1001 pts)
1 N 1 f 99.84 MHz -55.425 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required


Agilent Spectrum Analyzer - Swept SA
Marker 1 23.695000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Log-Pwr
Avg|Hold: 3/100
02:56:45 PM Mar 03, 2014
Ref Offset 21 dB
10 dB/div
Log
Ref 21.00 dBm
Mkr1 23.695 GHz
-53.004 dBm
Start 10.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 1.43 s (1001 pts)
1 N 1 f 23.695 GHz -53.004 dBm
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
Align Now, All required