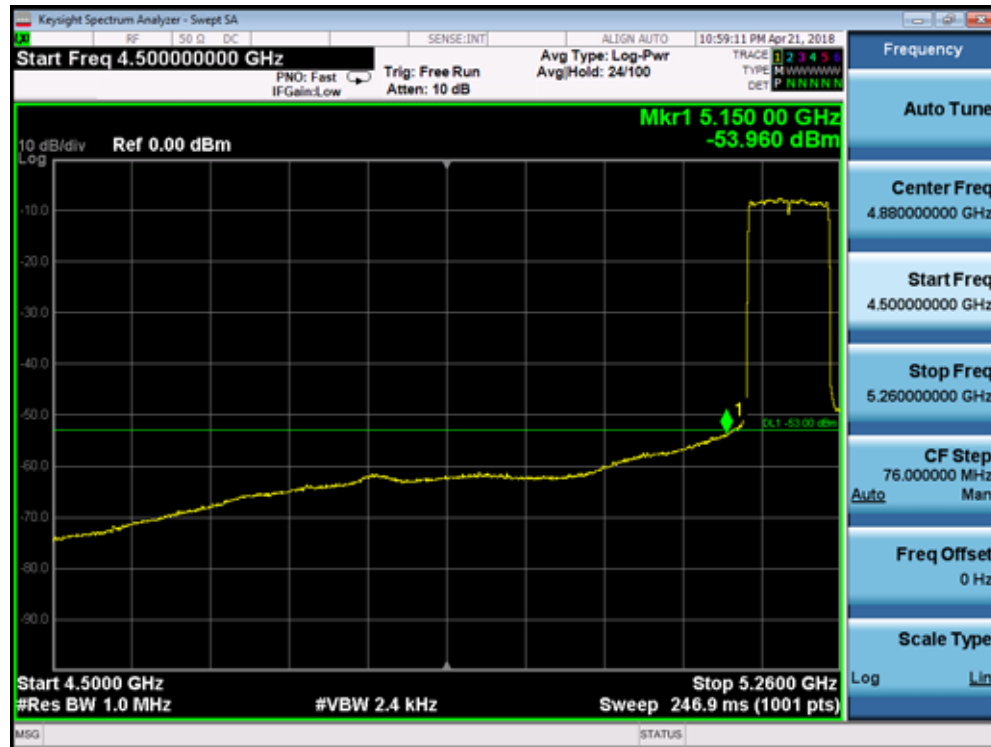


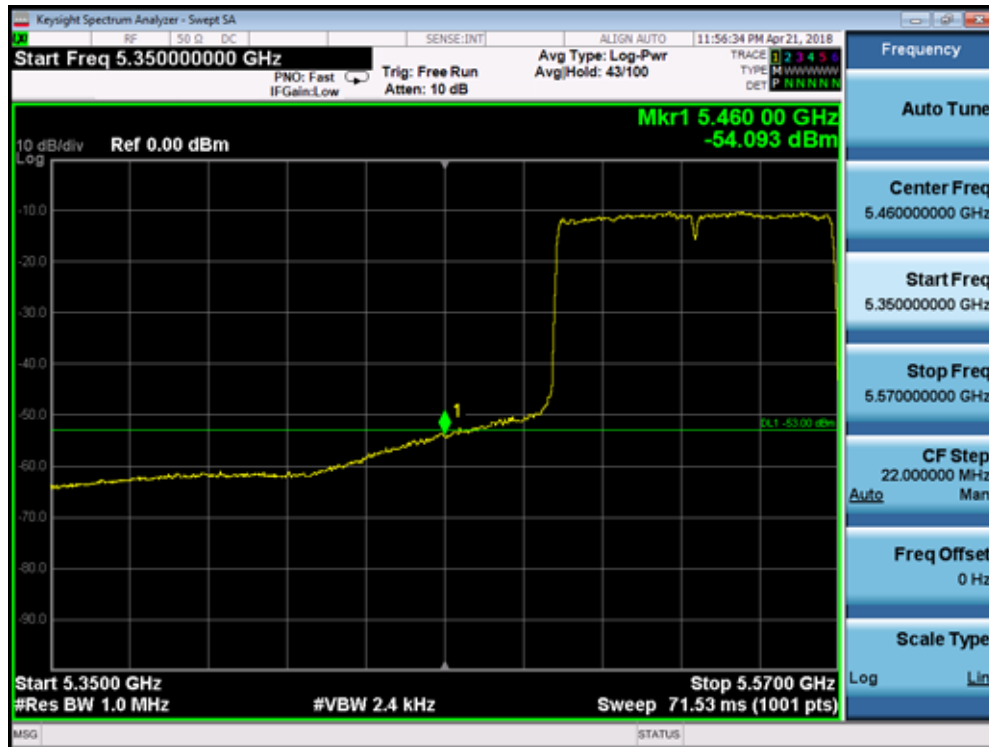
5210MHz by 802.11ac(80MHz)



5290MHz by 802.11ac(80MHz)



5530MHz by 802.11ac(80MHz)



5180MHz by 802.11ax(20MHz):



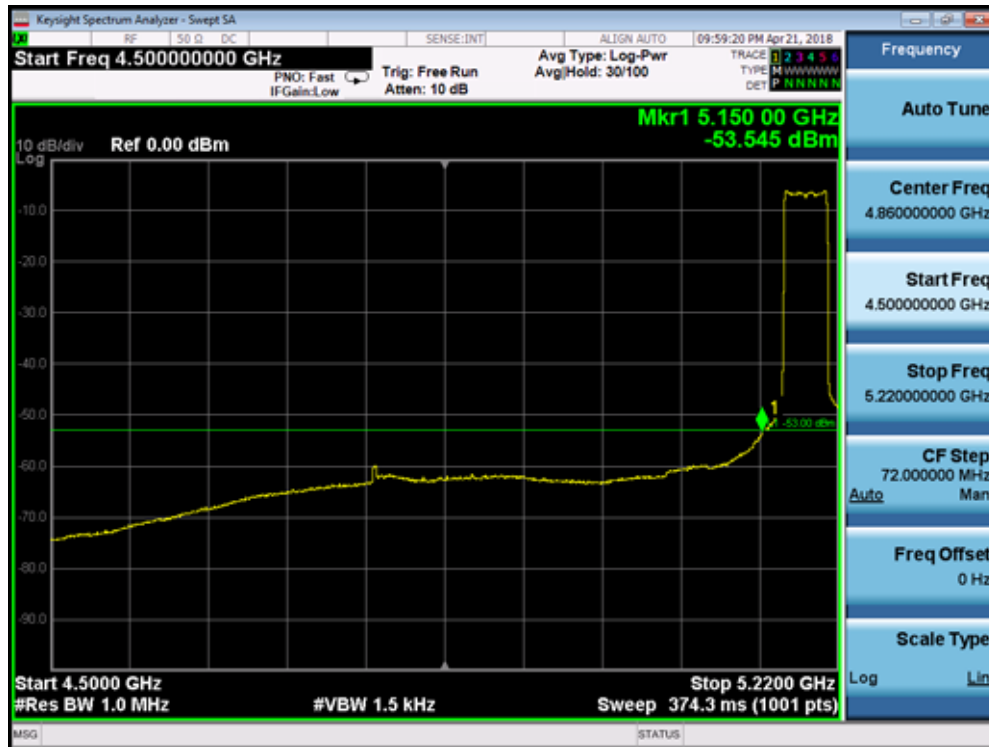
5320MHz by 802.11ax(20MHz):



5500MHz by 802.11ax(20MHz):



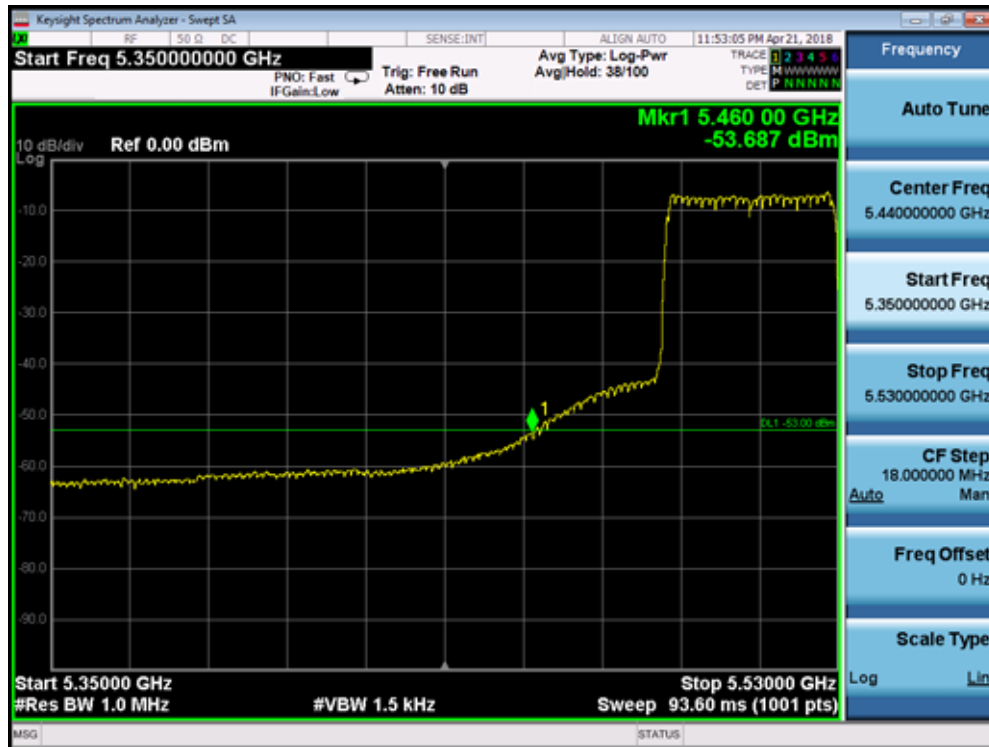
5190MHz by 802.11ax(40MHz):



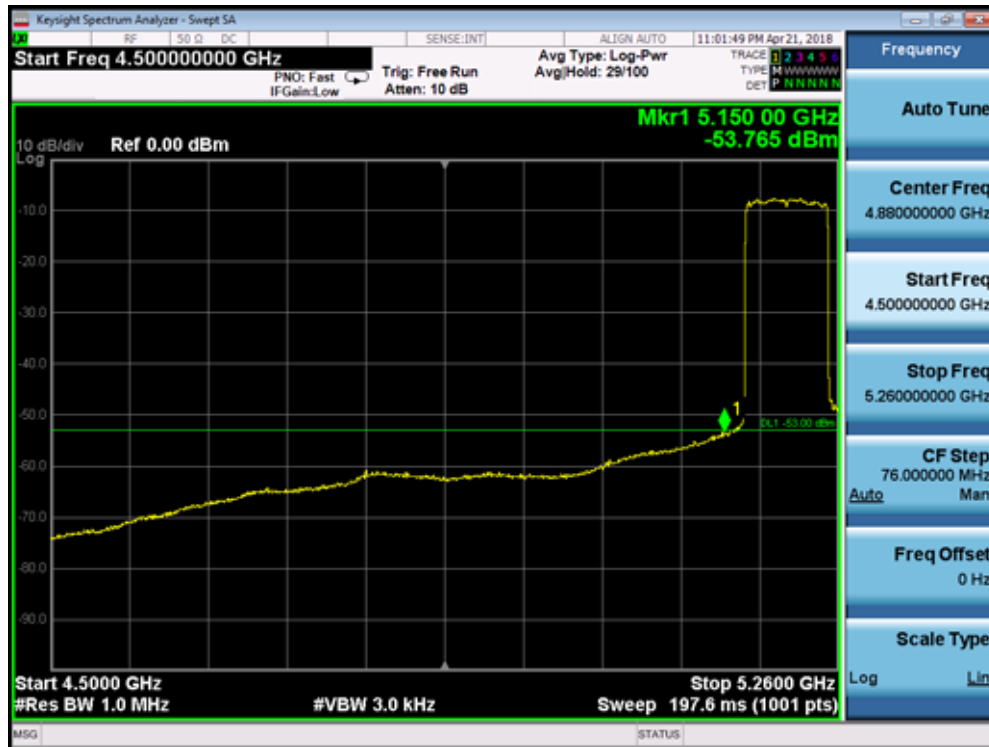
5310MHz by 802.11ax(40MHz):



5510MHz by 802.11ax(40MHz):



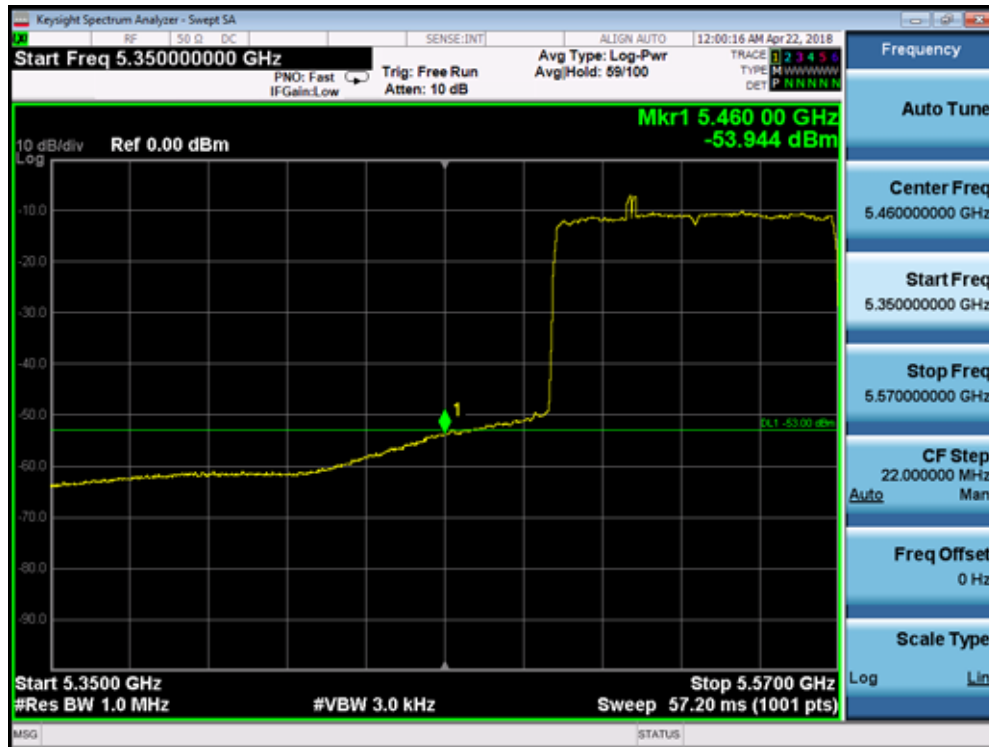
5210MHz by 802.11ax(80MHz)



5290MHz by 802.11ax(80MHz)



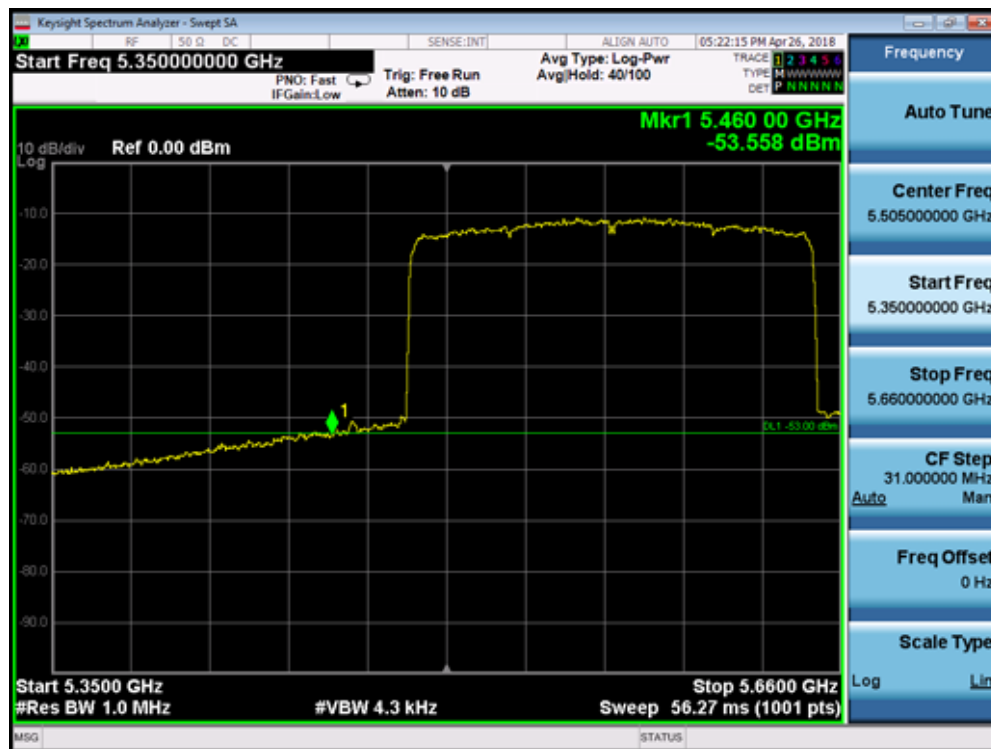
5530MHz by 802.11ax(80MHz)



5250MHz by 802.11ax(160MHz)

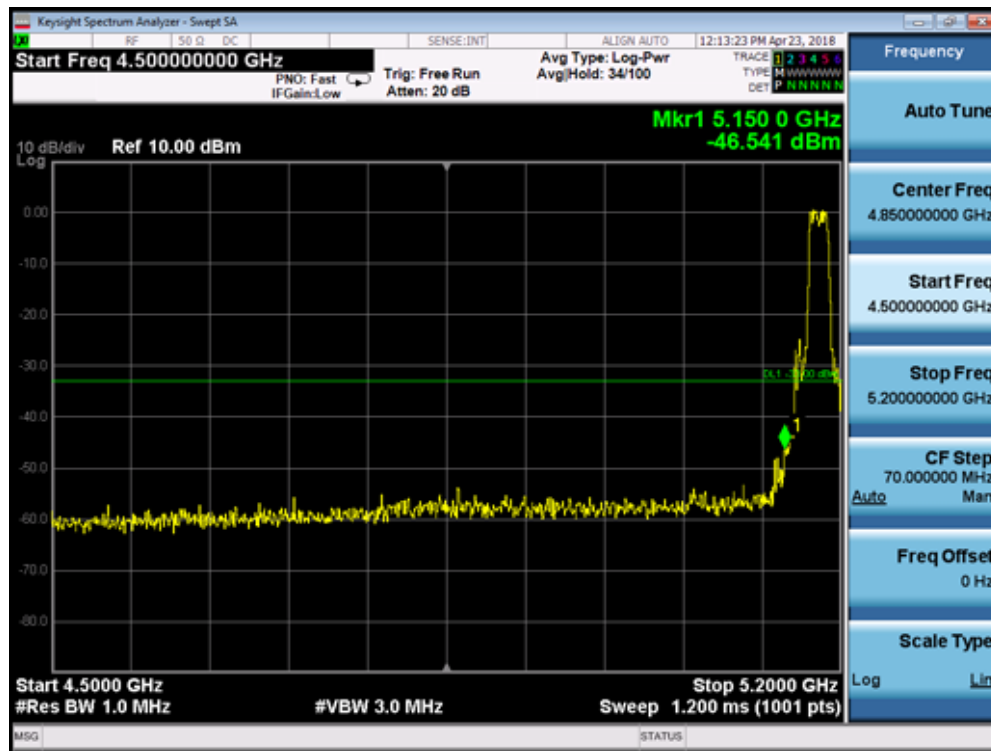


5570MHz by 802.11ax(160MHz)

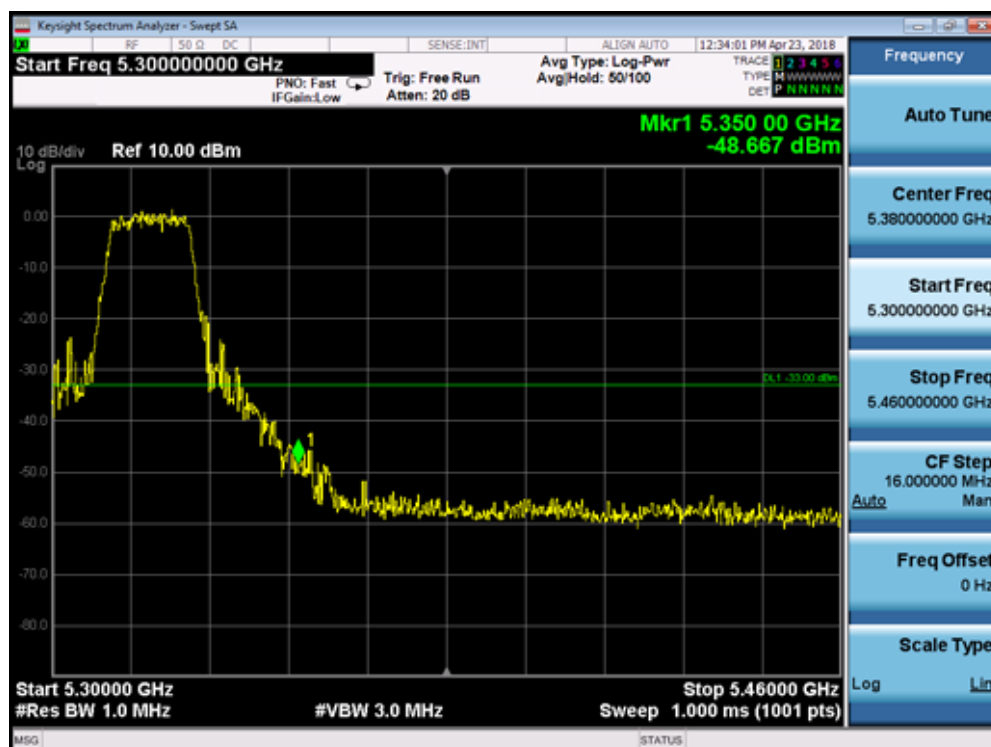


PK-Ant 1+2 with Beam-forming:

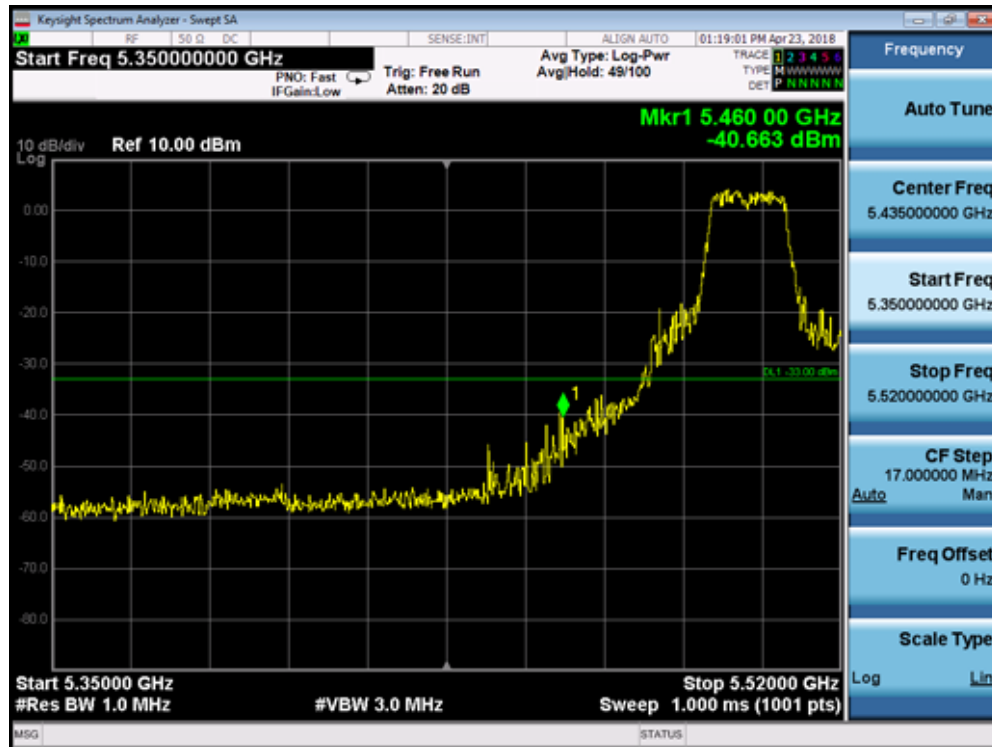
Band I PK Limit=74 dBuV/m-95.2-10lg2(2tx)-8.5(Directional Gain)-0.17(cable loss)=-33dbm
5180MHz by 802.11a:



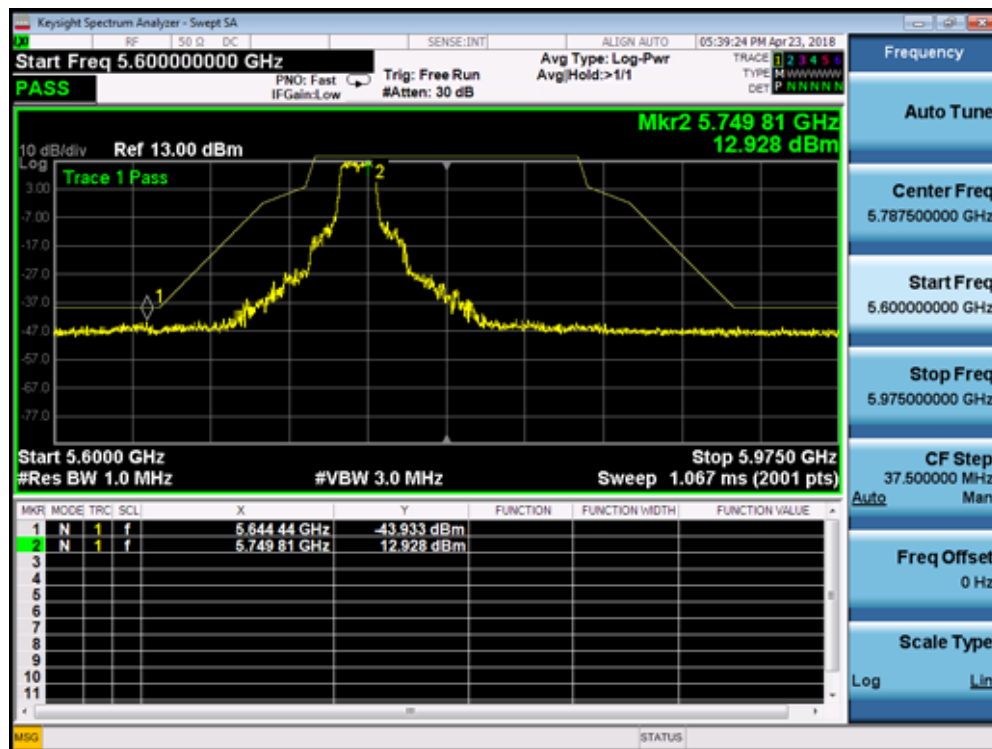
5320MHz by 802.11a:



5500MHz by 802.11a:



5745MHz by 802.11a:



[illegible]

Keysight Spectrum Analyzer - Swept SA

Start Freq 5.600000000 GHz

PNO: Fast IFGain: Low Trig: Free Run #Atten: 30 dB

Avg Type: Log-Pwr Avg/Hold: >1/1

TRACE 1 2 3 4 5 6

TYPE M M M M M M M M

DET P N N N N N N

10 dB/div Ref 13.00 dBm

Trace 1 Pass

Mkr2 5.929 63 GHz -44.691 dBm

Start 5.6000 GHz Stop 5.9750 GHz

#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (2001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.825 94 GHz	12.142 dBm			
2	N	1	f	5.929 63 GHz	-44.691 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency

Auto Tune

Center Freq 5.787500000 GHz

Start Freq 5.600000000 GHz

Stop Freq 5.975000000 GHz

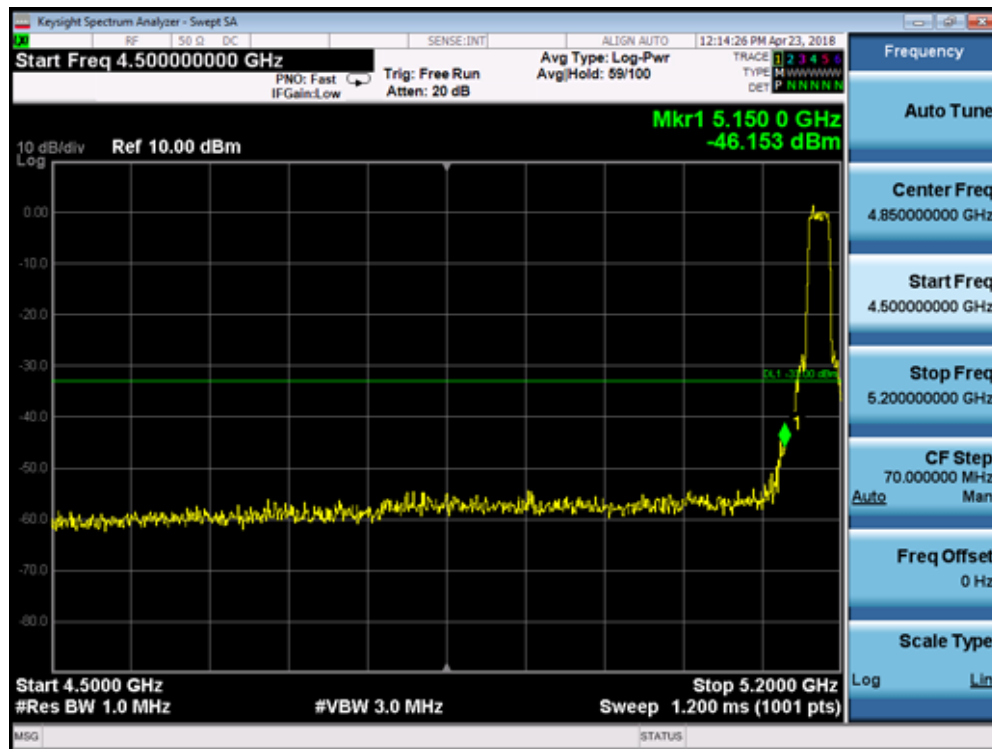
CF Step 37.500000 MHz

Auto Man

Freq Offset 0 Hz

Scale Type Log Lin

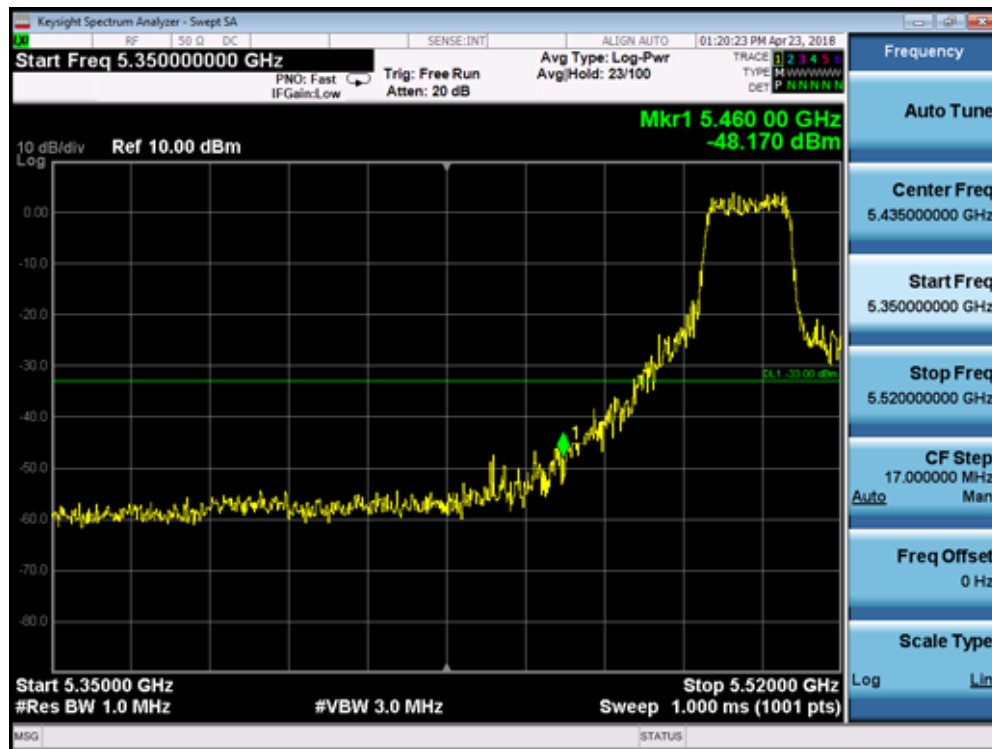
5180MHz by 802.11n(20MHz):



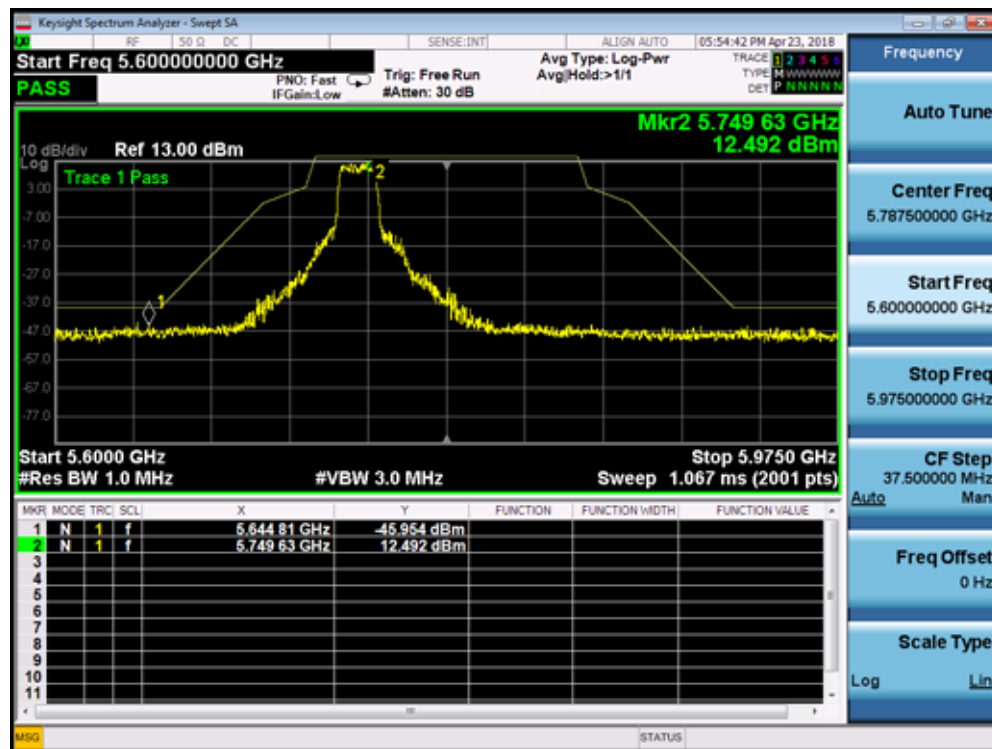
5320MHz by 802.11n(20MHz):



5500MHz by 802.11n(20MHz):



5745MHz by 802.11n(20MHz):



Keysight Spectrum Analyzer - Swept SA

RF 50 Ω DC SENSE:INT ALIGN: AUTO 06:06:35 PM Apr 23, 2018

Start Freq 5.600000000 GHz Avg Type: Log-Pwr PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB TYPE M DET P NNNNN

PASS

Mkr3 5.938 63 GHz -47.008 dBm

10 dB/div Ref 13.00 dBm

Trace 1 Pass

Start 5.6000 GHz Stop 5.9750 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (2001 pts)

MKR	MODE	TRC	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.613 69 GHz	-46.271 dBm			
2	N	1	f	5.783 94 GHz	11.959 dBm			
3	N	1	f	5.938 63 GHz	-47.008 dBm			

MSG STATUS

Keysight Spectrum Analyzer - Swept SA

RF 50 Ω DC SENSE INT ALIGN AUTO 06:08:44 PM Apr 23, 2018

Start Freq 5.60000000 GHz

PASS PNO: Fast IF Gain: Low Trig: Free Run Avg/Hold: >1/1

Avg Type: Log-Pwr TYPE M DET P

Mkr2 5.943 69 GHz -47.166 dBm

10 dB/div Ref 13.00 dBm

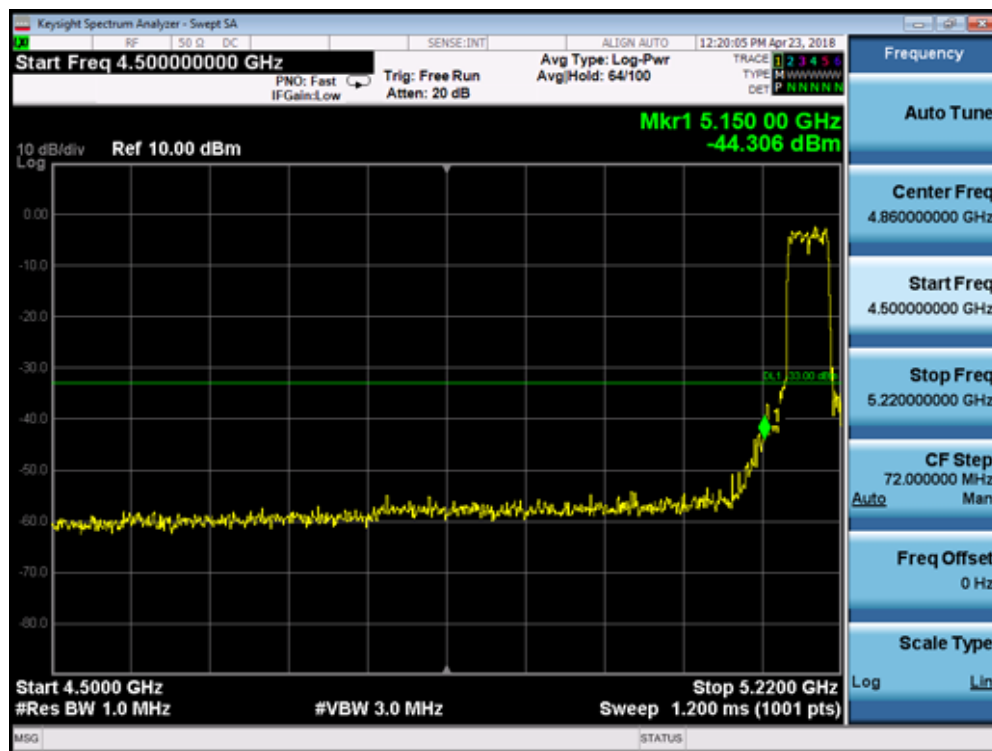
Trace 1 Pass

Start 5.6000 GHz Stop 5.9750 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (2001 pts)

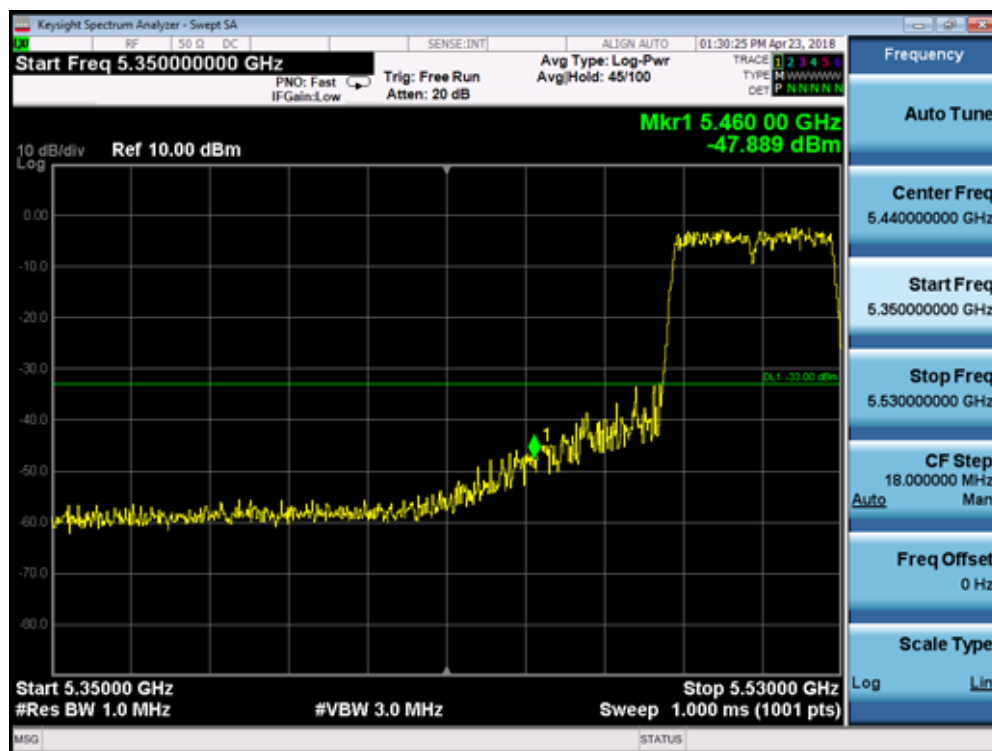
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.819 94 GHz	-11.657 dBm			
2	N	1	f	5.943 69 GHz	-47.166 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency Auto Tune Center Freq 5.787500000 GHz Start Freq 5.600000000 GHz Stop Freq 5.975000000 GHz CF Step 37.500000 MHz Man Auto Freq Offset 0 Hz Scale Type Log Lin

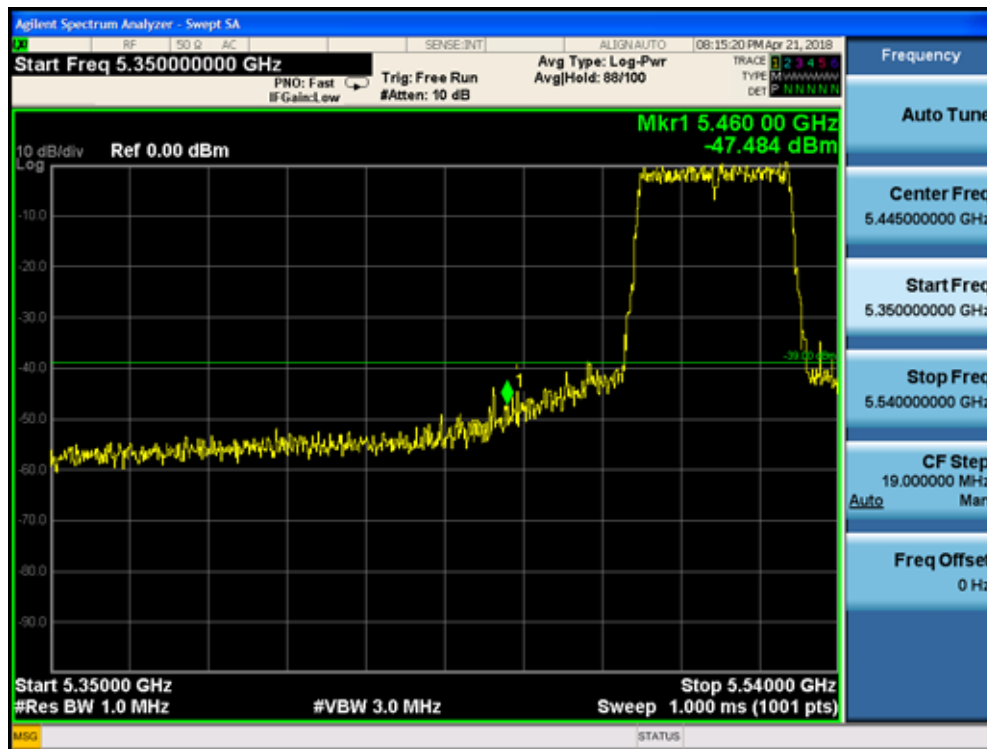
5190MHz by 802.11n(40MHz):



5310MHz by 802.11n(40MHz):



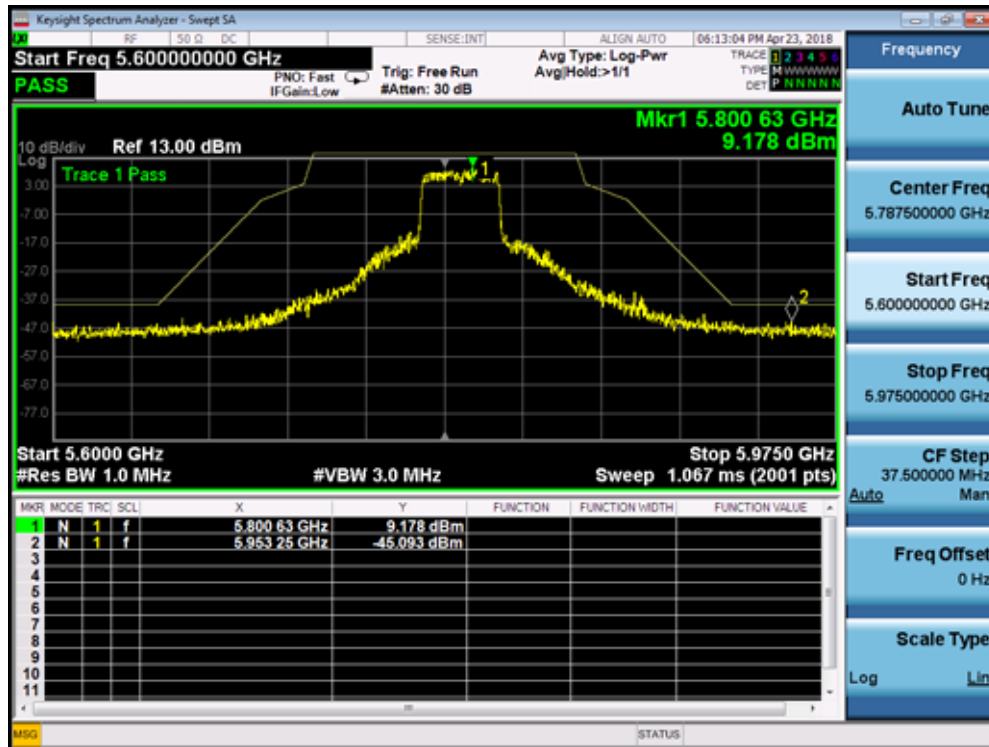
5510MHz by 802.11n(40MHz):



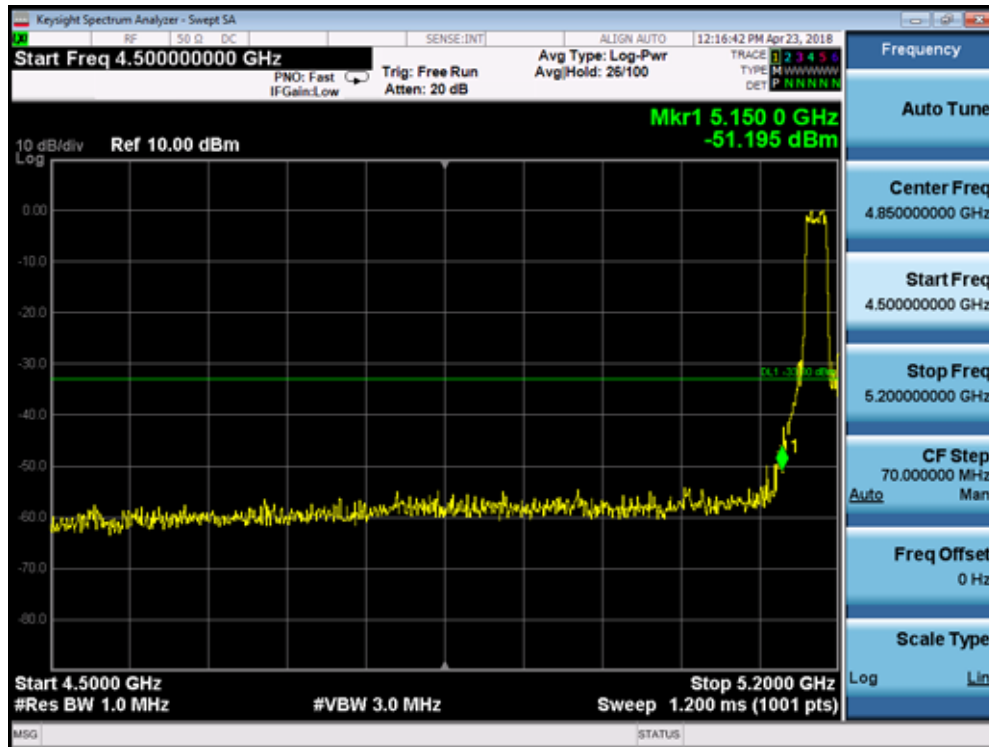
5755MHz by 802.11n(40MHz):



5795MHz by 802.11n(40MHz):



5180MHz by 802.11ac(20MHz):



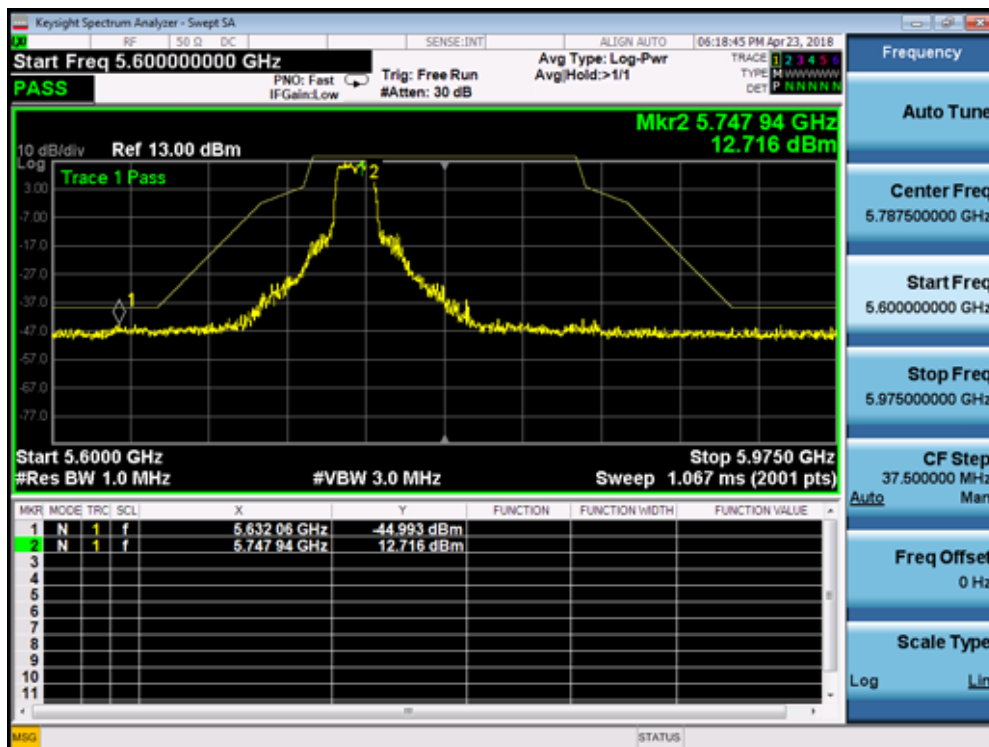
5320MHz by 802.11ac(20MHz):



5500MHz by 802.11ac(20MHz):

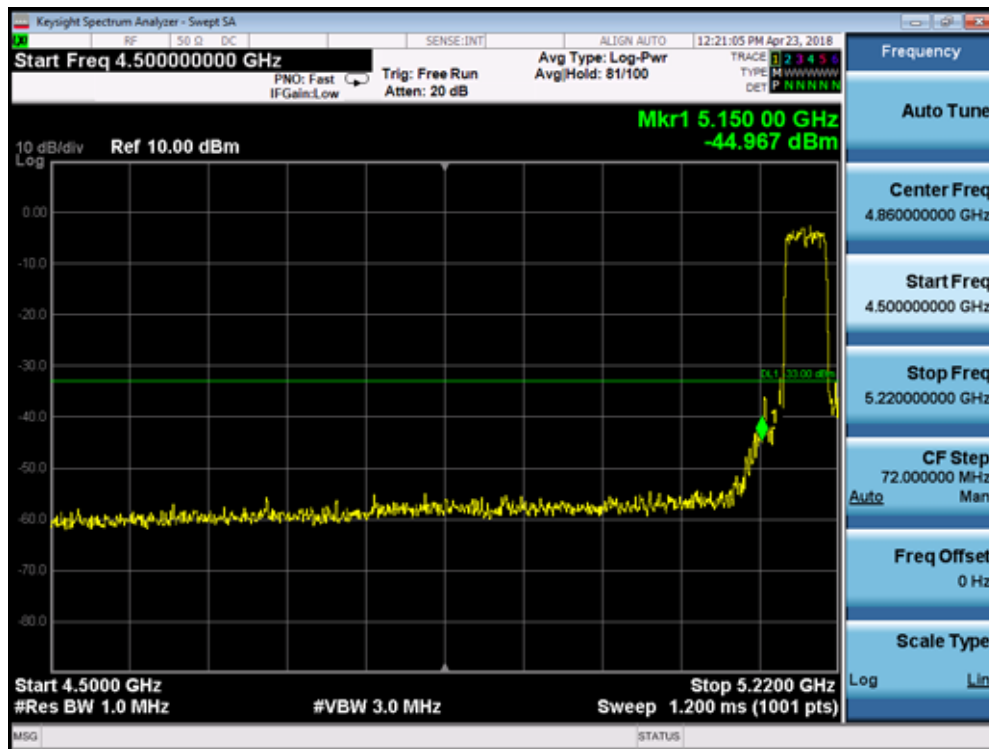


5745MHz by 802.11ac(20MHz):

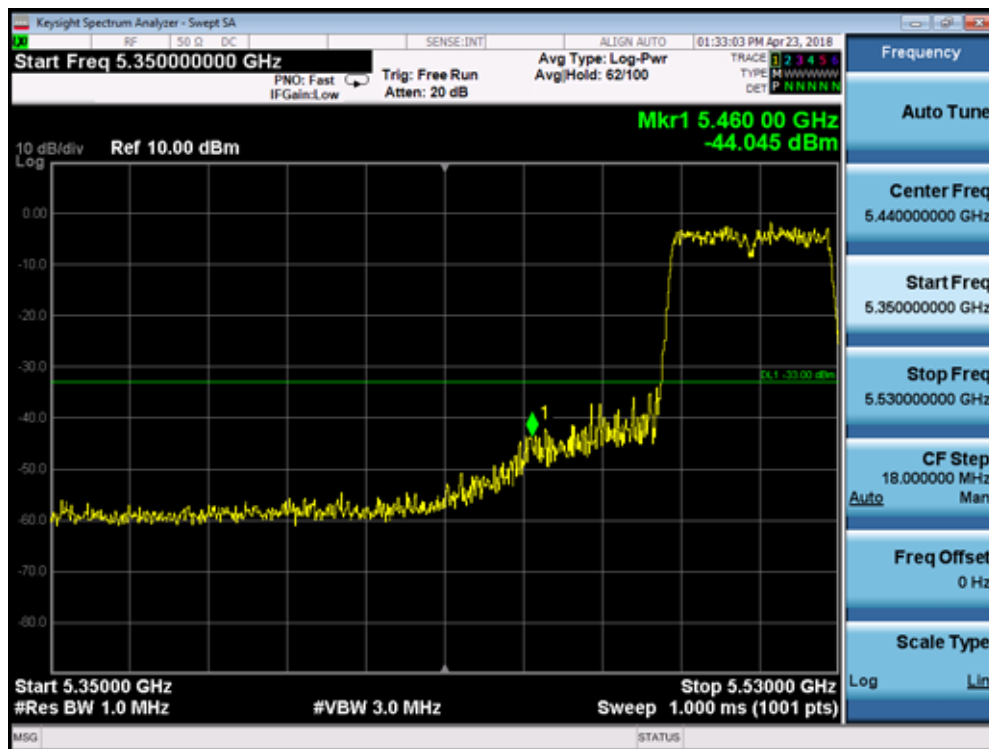


[illegible][illegible]

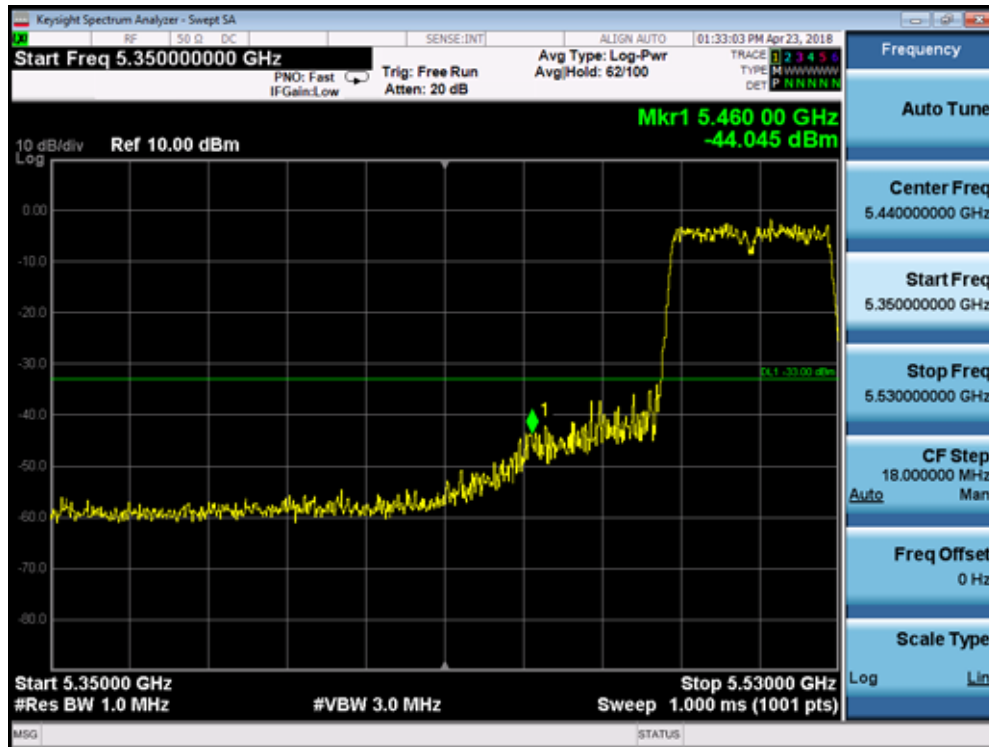
5190MHz by 802.11ac(40MHz):



5310MHz by 802.11ac(40MHz):



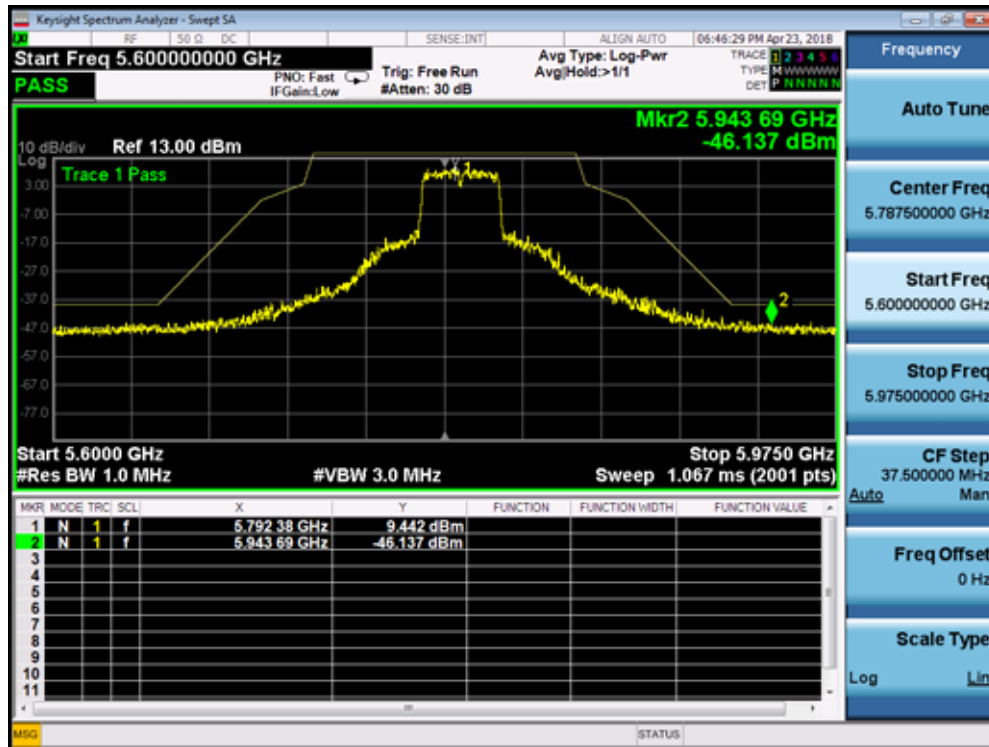
5510MHz by 802.11ac(40MHz):



5755MHz by 802.11ac(40MHz):



5795MHz by 802.11ac(40MHz):



5210MHz by 802.11ac(80MHz):



5290MHz by 802.11ac(80MHz):



Keysight Spectrum Analyzer - Swept SA

Start Freq 5.350000000 GHz

Ref 10.00 dBm

10 dB/div

Log

Mkr1 5.460 00 GHz
-54.251 dBm

Stop 5.5700 GHz

#Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 1.000 ms (1001 pts)

Frequency

Auto Tune

Center Freq 5.460000000 GHz

Start Freq 5.350000000 GHz

Stop Freq 5.570000000 GHz

CF Step 22.000000 MHz

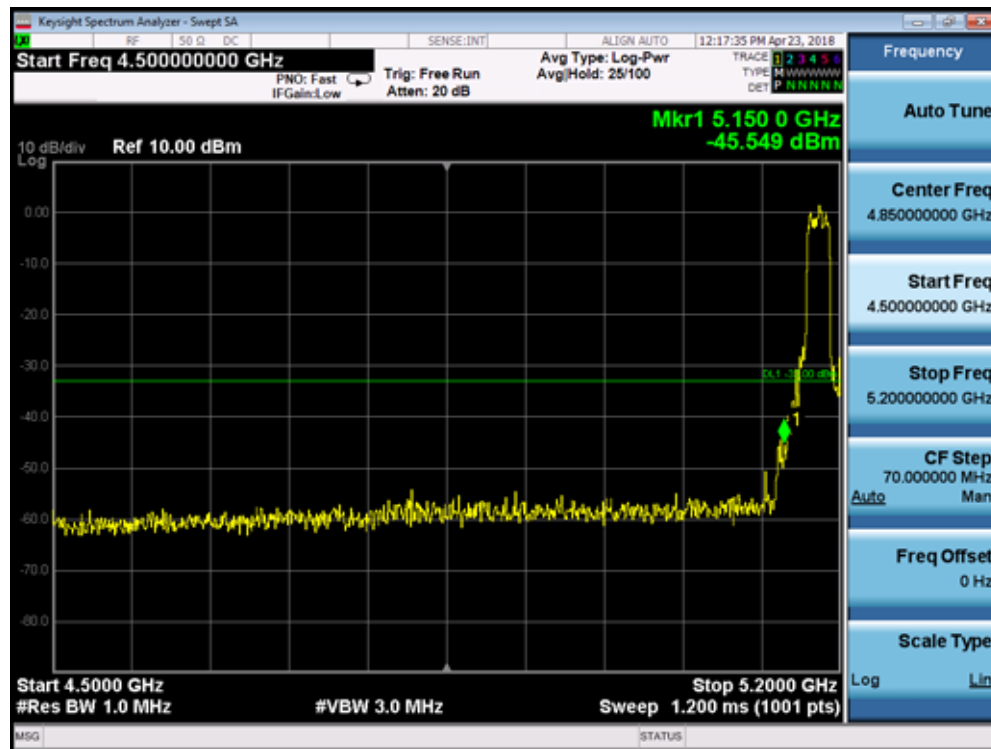
Auto Man

Freq Offset 0 Hz

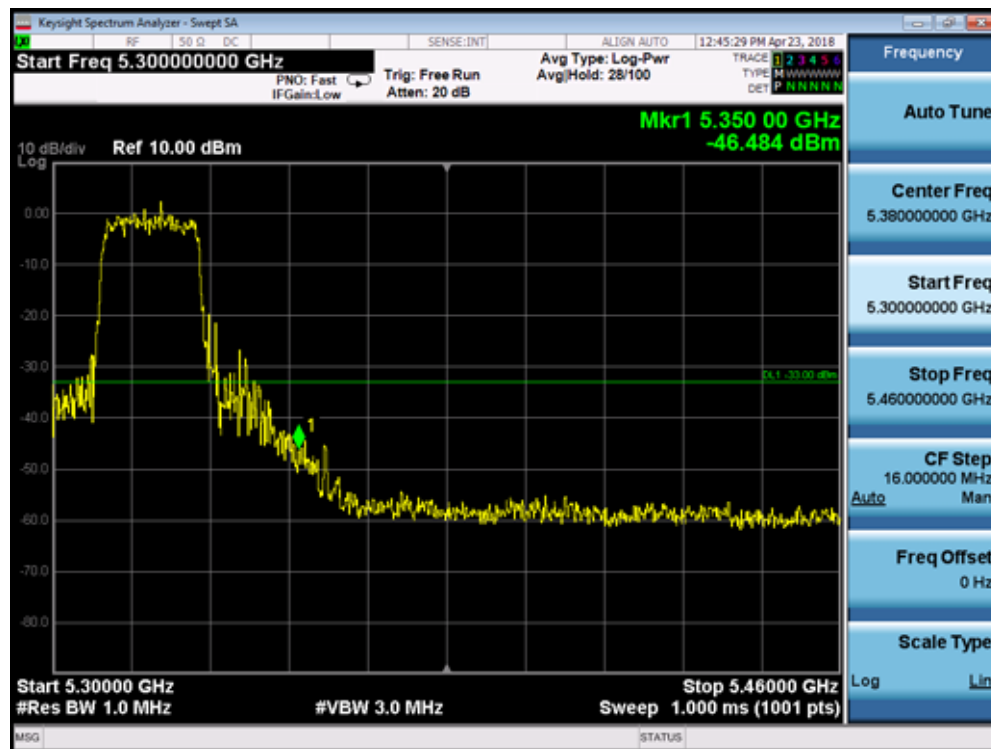
Scale Type Log Lin

[illegible]

5180MHz by 802.11ax(20MHz):



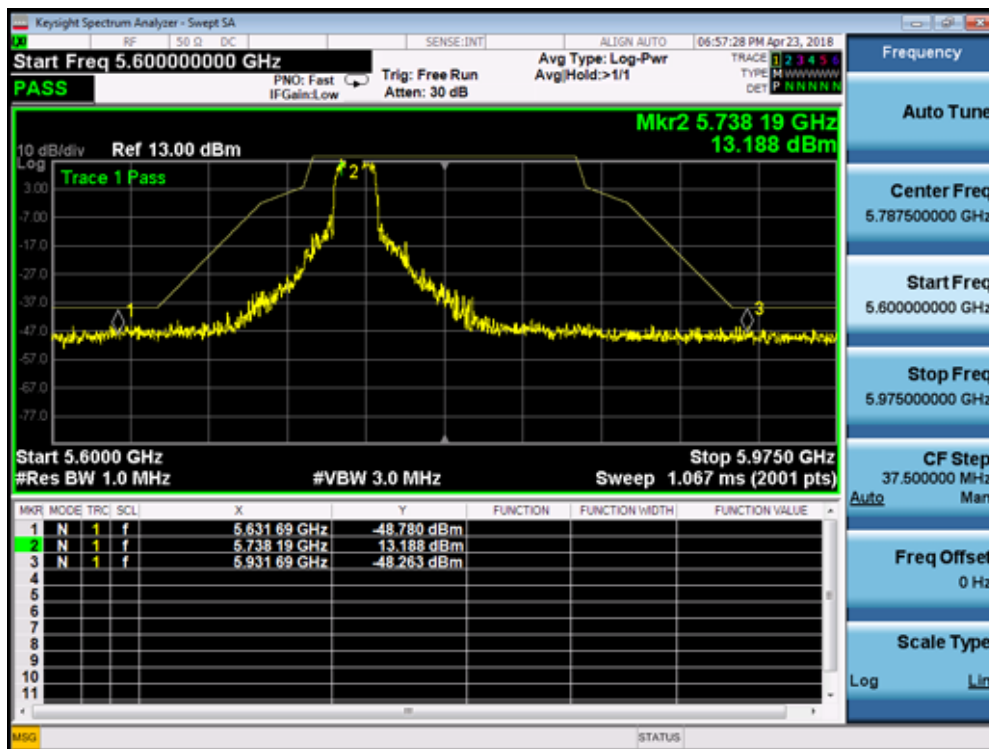
5320MHz by 802.11ax(20MHz):



5500MHz by 802.11ax(20MHz):



5745MHz by 802.11ax(20MHz):



The screenshot displays a Keysight Spectrum Analyzer interface. The main plot shows a signal trace with a peak at 5.92925 GHz. The y-axis is labeled 'Log' and ranges from -77.0 to 10 dB/div. The x-axis is labeled 'Start 5.6000 GHz' and 'Stop 5.9750 GHz'. The peak is labeled 'Mkr3 5.929 25 GHz' and '-47.173 dBm'. The trace is labeled 'Trace 1 Pass'.

Below the plot, there is a table with the following columns: MKR, MODE, TRC, SCL, X, Y, FUNCTION, FUNCTION WIDTH, and FUNCTION VALUE. The table contains three rows of data:

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.642 38 GHz	-46.617 dBm			
2	N	1	f	5.789 56 GHz	12.489 dBm			
3	N	1	f	5.929 25 GHz	-47.173 dBm			

The right side of the image shows a sidebar with various settings and controls, including 'Frequency', 'Auto Tune', 'Center Freq', 'Start Freq', 'Stop Freq', 'CF Step', 'Auto', 'Man', 'Freq Offset', 'Scale Type', and 'Log'.

Keysight Spectrum Analyzer - Swept SA

RF 50 Ω DC SENSE INT ALIGN AUTO 07:00:59 PM Apr 23, 2018

Start Freq 5.60000000 GHz

PASS PNO: Fast IF Gain: Low Trig: Free Run Avg Type: Log-Pwr Avg Hold: >1/1 TYPE M DET P NNNNN

Mkr2 5.929 81 GHz
-44.941 dBm

Trace 1 Pass

10 dB/div Ref 13.00 dBm

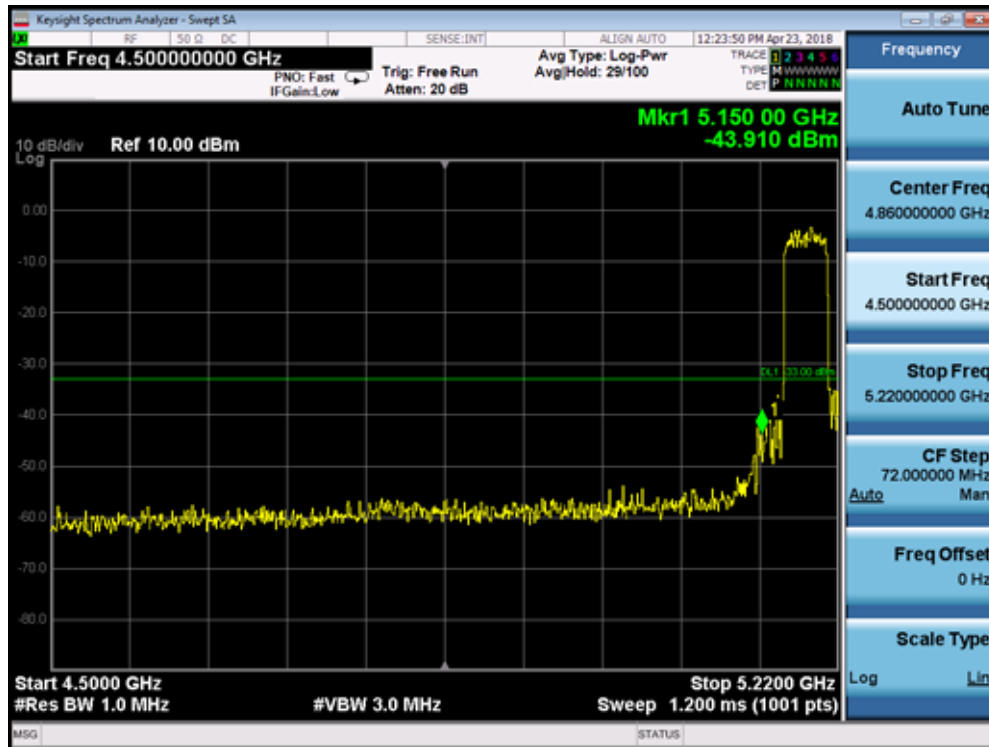
Log

Start 5.6000 GHz Stop 5.9750 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.067 ms (2001 pts)

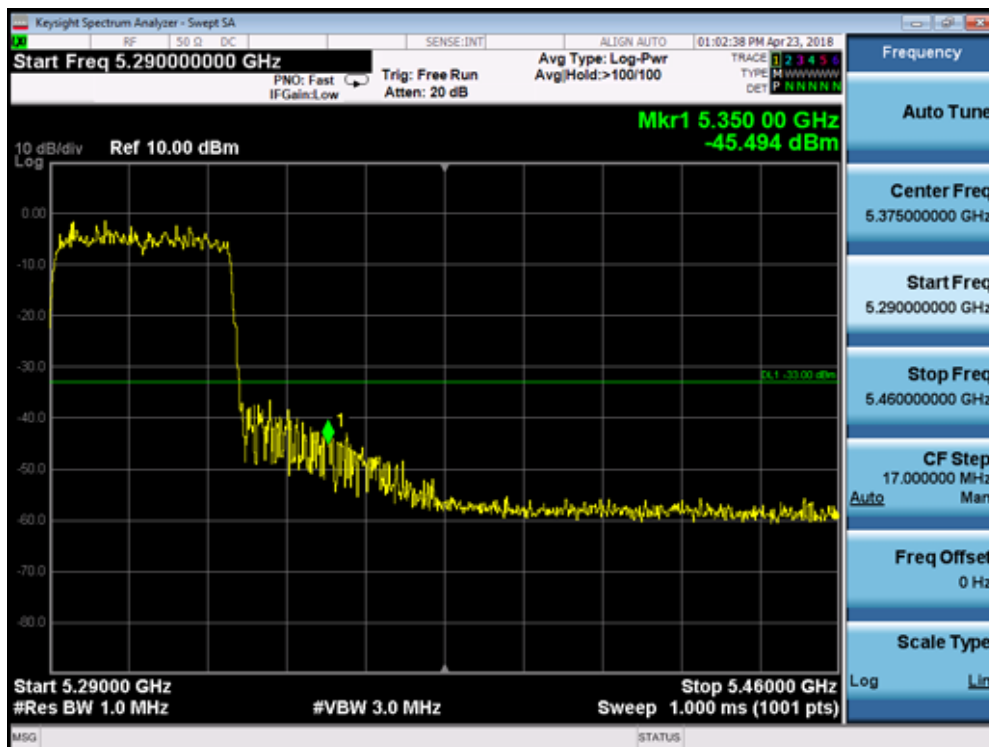
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.827 83 GHz	12.350 dBm			
2	N	1	f	5.929 81 GHz	-44.941 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

Frequency Auto Tune Center Freq 5.787500000 GHz Start Freq 5.60000000 GHz Stop Freq 5.97500000 GHz CF Step 37.500000 MHz Man Auto Freq Offset 0 Hz Scale Type Log Lin

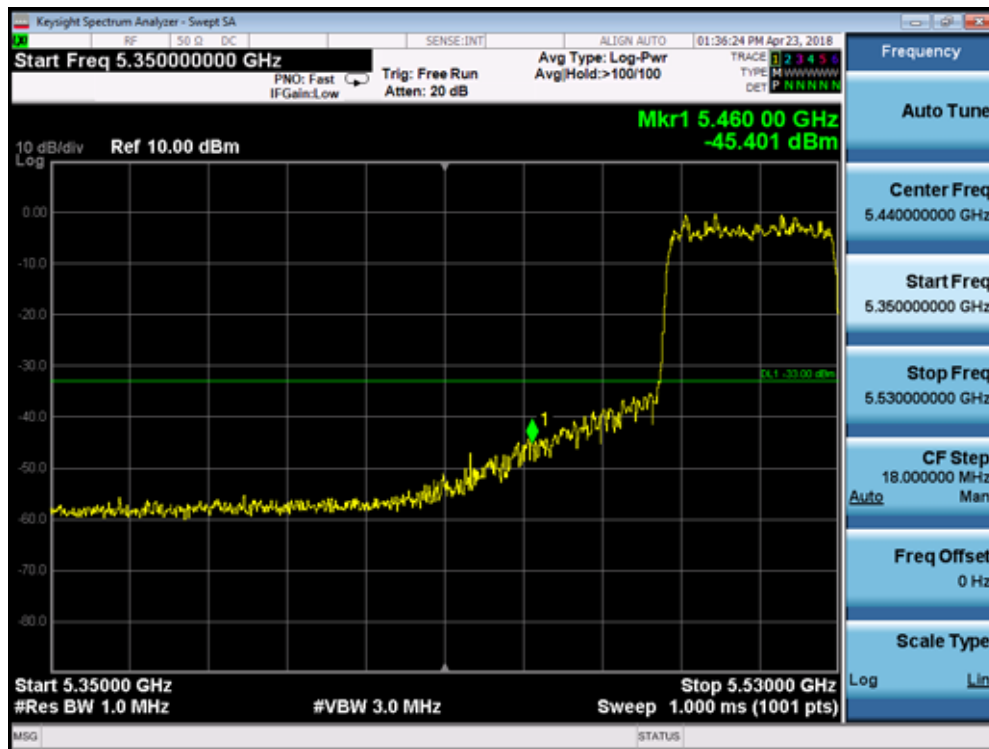
5190MHz by 802.11ax(40MHz):



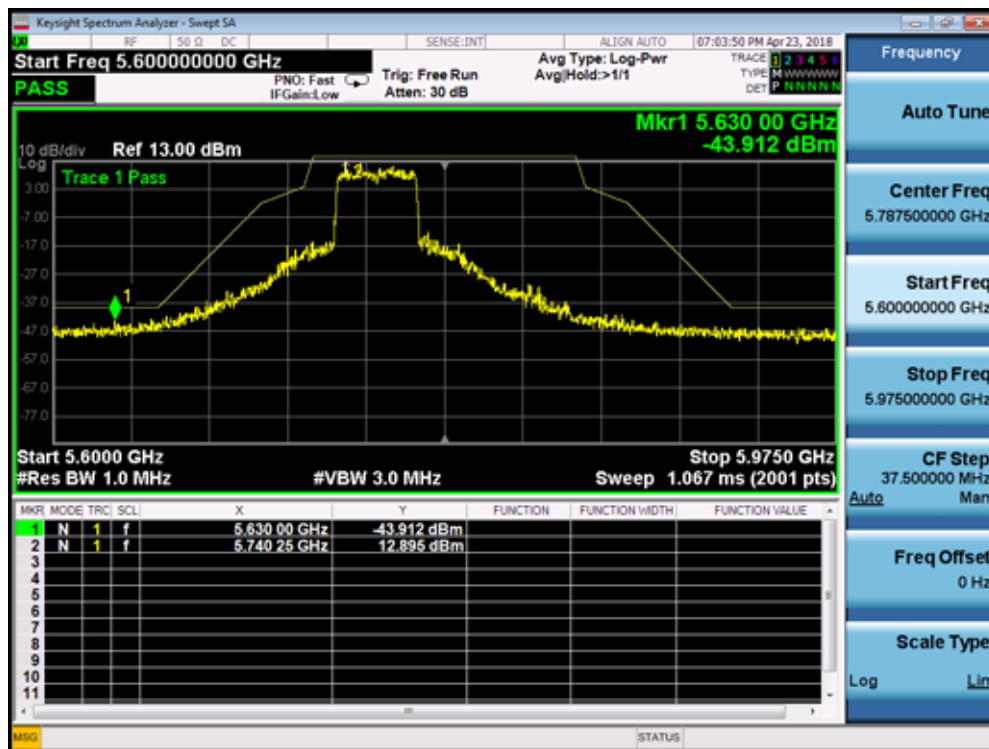
5310MHz by 802.11ax(40MHz):



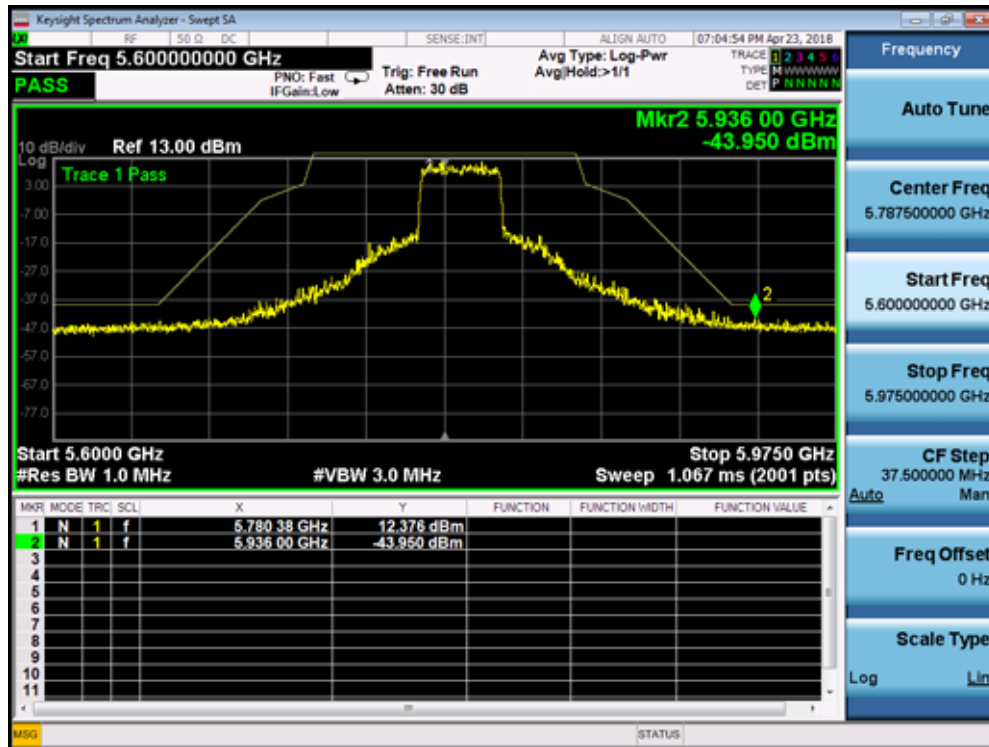
5510MHz by 802.11ax(40MHz):



5755MHz by 802.11ax(40MHz):



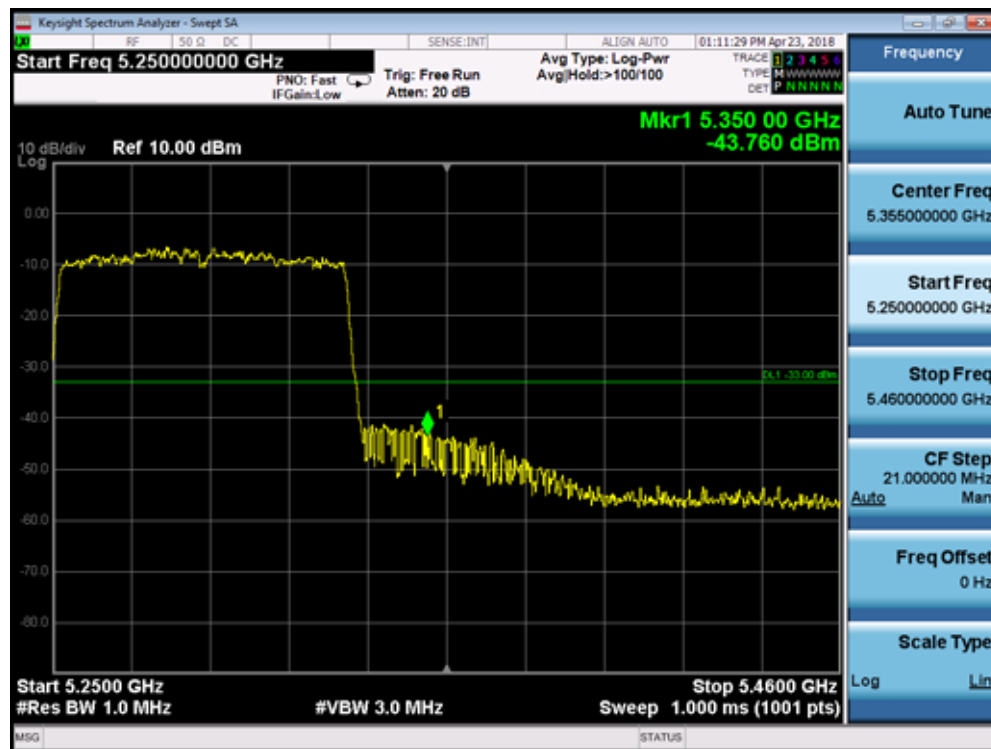
5795MHz by 802.11ax(40MHz):



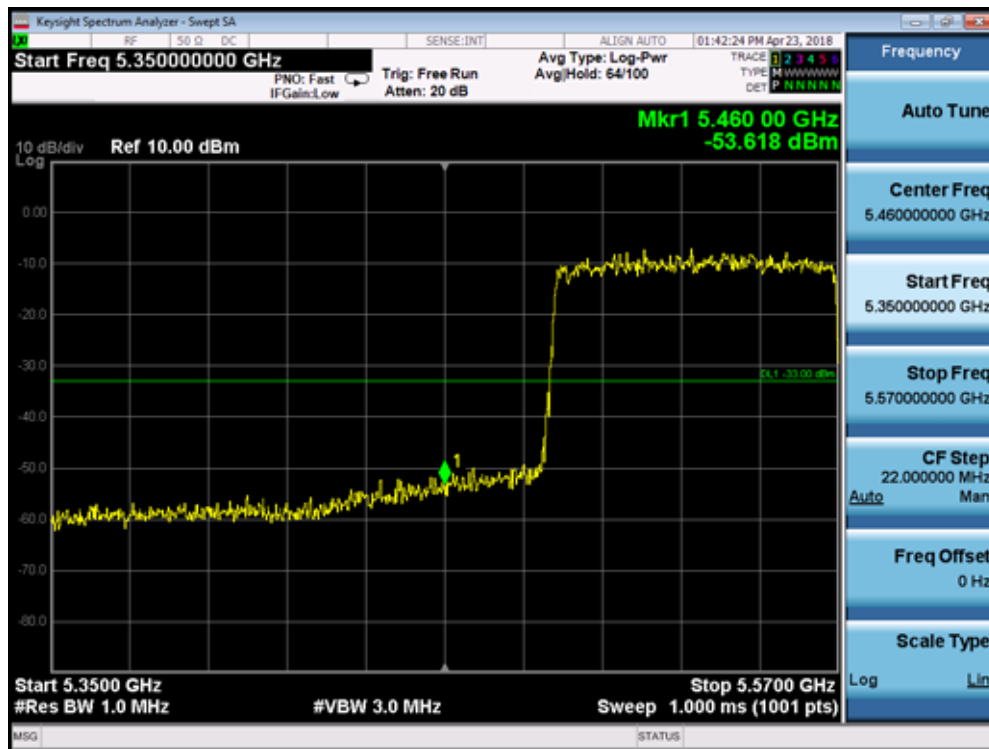
5210MHz by 802.11ax(80MHz):



5290MHz by 802.11ax(80MHz):



5530MHz by 802.11ax(80MHz):



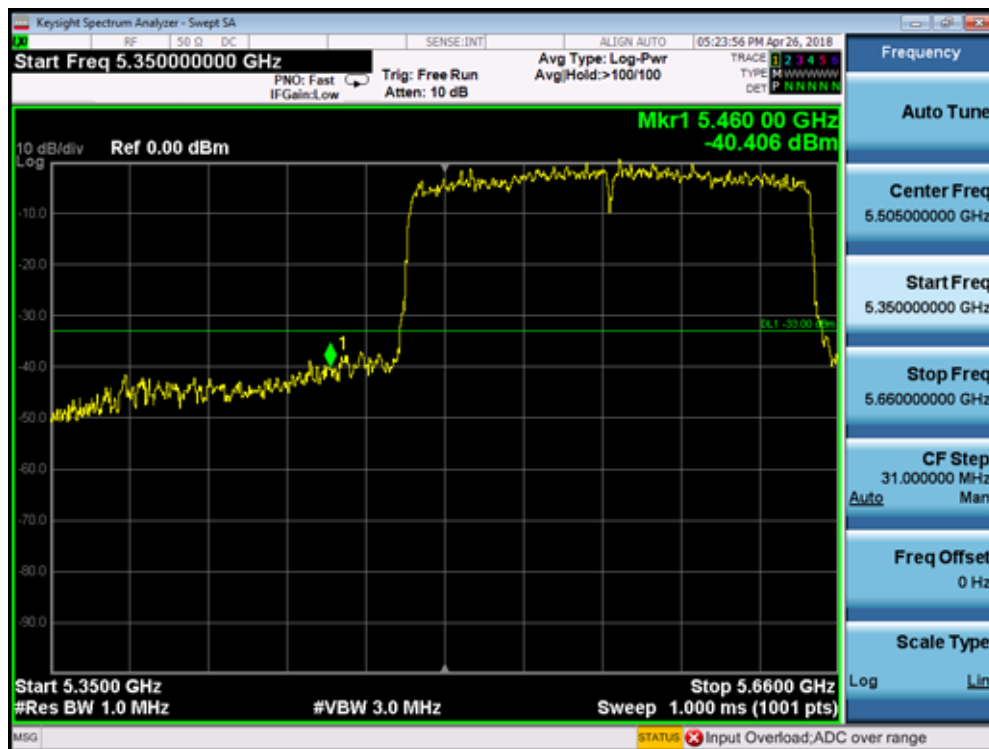
5775MHz by 802.11ax(80MHz):



5250MHz by 802.11ax(160MHz):



5570MHz by 802.11ax(160MHz):



AV-Ant 1+2+3+4 with Beam-forming:

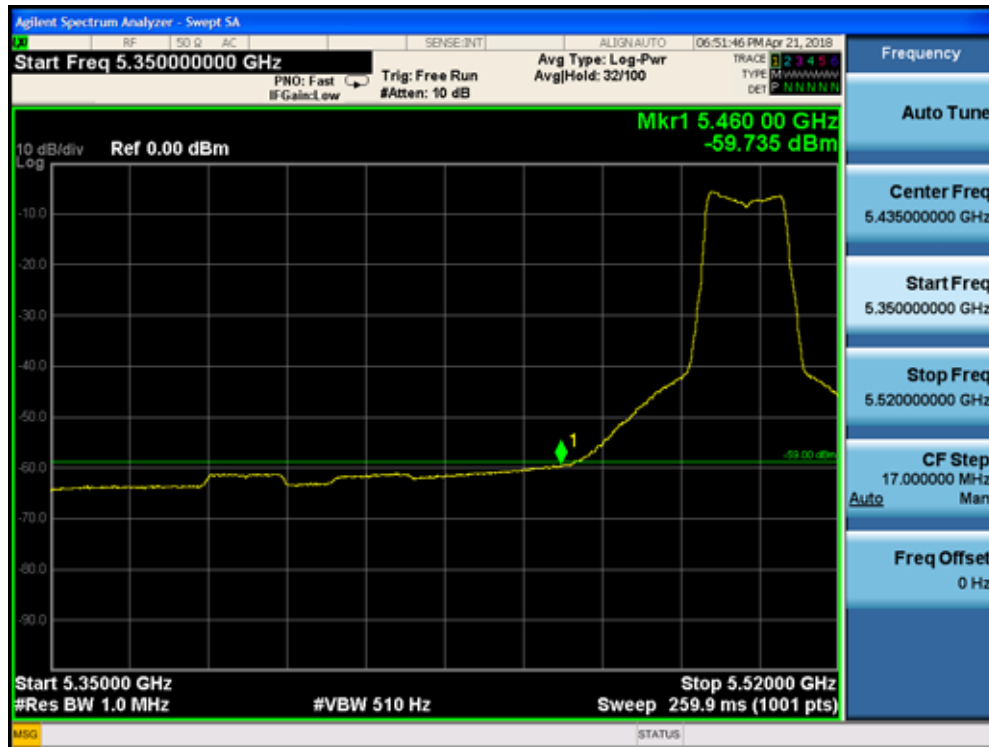
Band I AV Limit=54 dBuV/m-95.2-10lg4(4tx)-11.5(Directional Gain)-0.23(cable loss)=-59dbm
5180MHz by 802.11a:



5320MHz by 802.11a:



5500MHz by 802.11a:



5180MHz by 802.11n(20MHz):



5320MHz by 802.11n(20MHz):



Agilent Spectrum Analyzer - Swept SA

Start Freq 5.35000000 GHz

Ref 0.00 dBm

10 dB/div

Log

Mkr1 5.460 00 GHz
-59.835 dBm

Stop 5.520000 GHz

#Res BW 1.0 MHz

#VBW 560 Hz

Sweep 236.7 ms (1001 pts)

Frequency

Auto Tune

Center Freq 5.435000000 GHz

Start Freq 5.350000000 GHz

Stop Freq 5.520000000 GHz

CF Step 17.000000 MHz

Man

Freq Offset 0 Hz

MSO STATUS

5190MHz by 802.11n(40MHz):



5310MHz by 802.11n(40MHz):



5510MHz by 802.11n(40MHz):



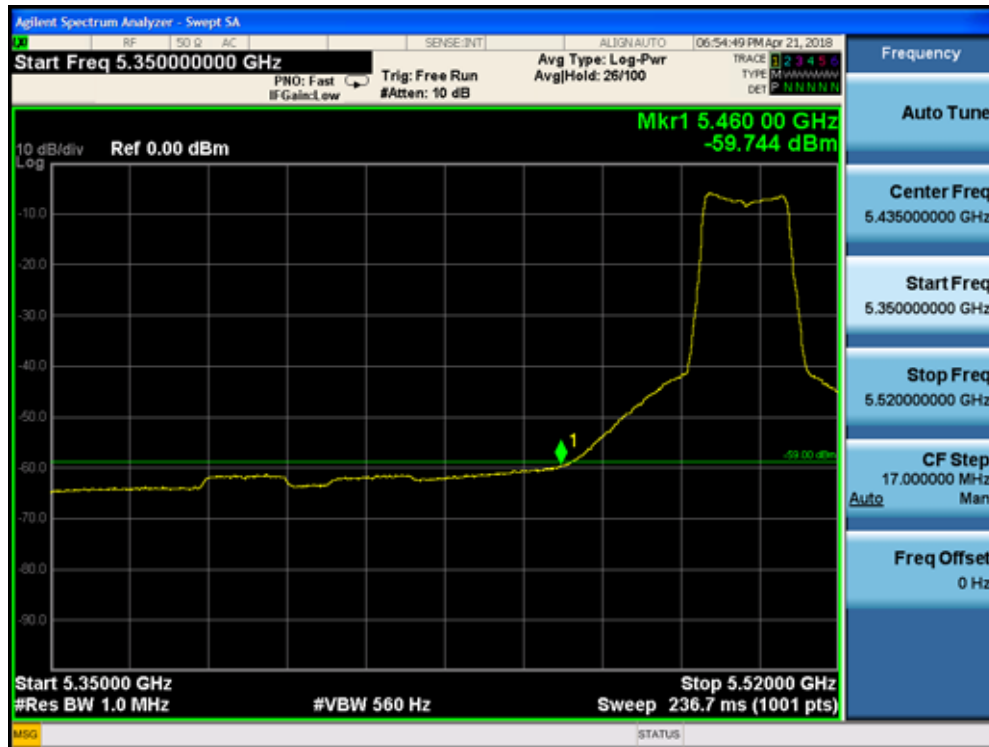
5180MHz by 802.11ac(20MHz):



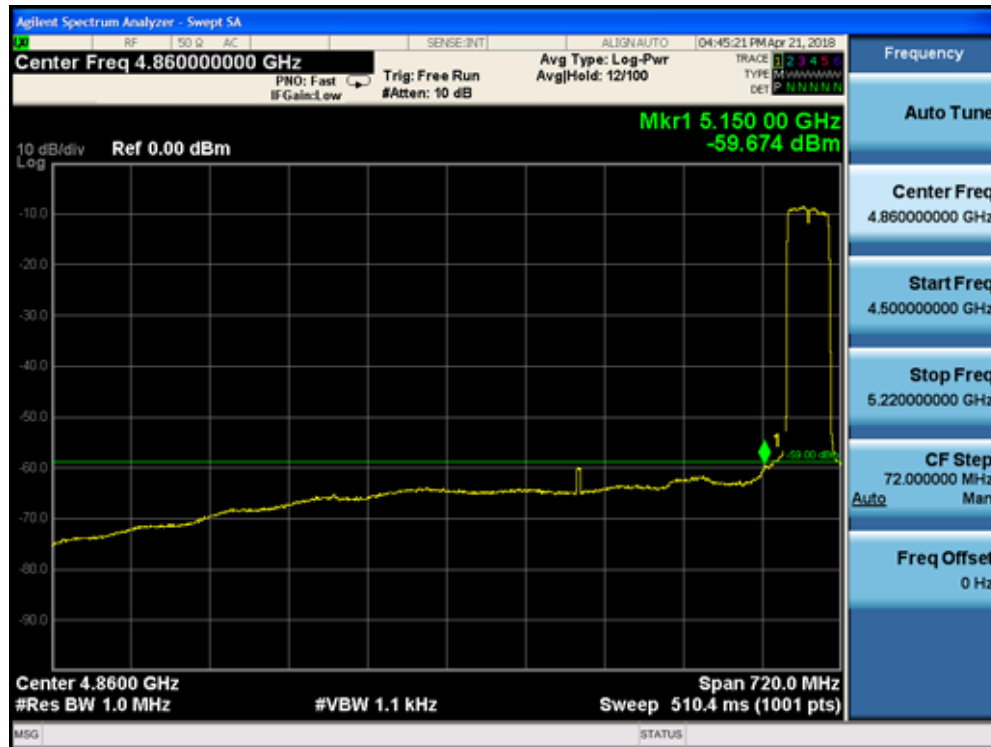
5320MHz by 802.11ac(20MHz):



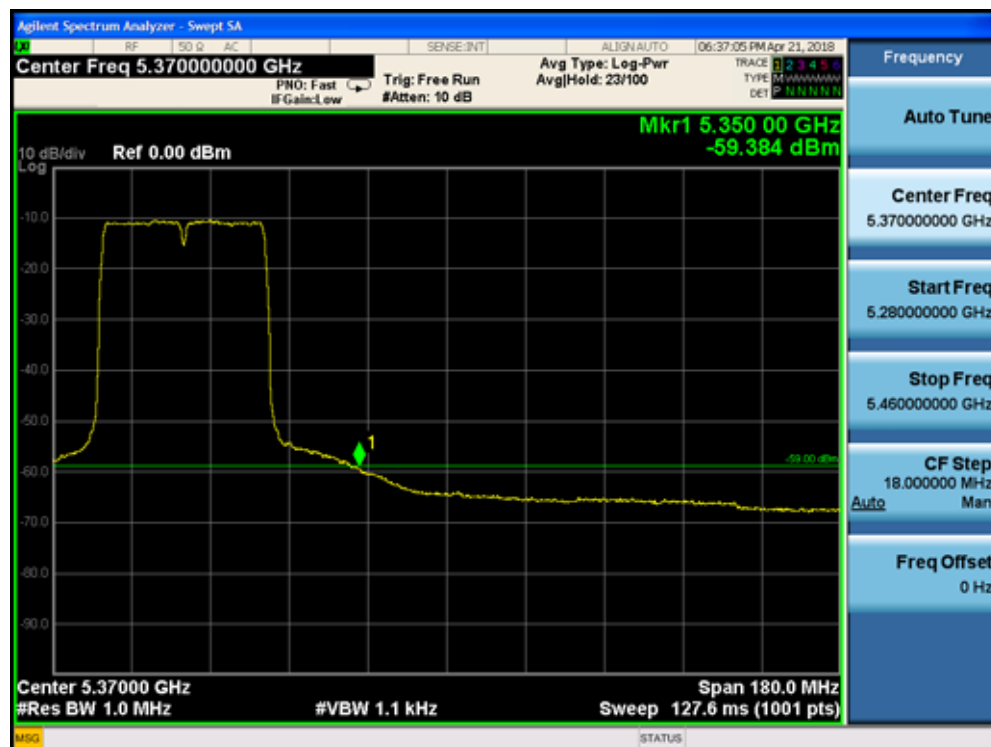
5500MHz by 802.11ac(20MHz):



5190MHz by 802.11ac(40MHz):



5310MHz by 802.11ac(40MHz):



Agilent Spectrum Analyzer - Swept SA

Start Freq 5.35000000 GHz

PNO: Fast Trig: Free Run

IF Gain: Low #Atten: 10 dB

Ave Type: Log-Pwr

Ave Hold: 100/100

TRAC 1 2 3 4 5 6

TYPE M W W W W W W W

DET P N N N N N

10 dB/div Ref 0.00 dBm

Mkr1 5.460 00 GHz

-59.869 dBm

1

Start 5.350000 GHz

Stop 5.540000 GHz

#Res BW 1.0 MHz

#VBW 1.1 kHz

Sweep 134.7 ms (1001 pts)

Frequency

Auto Tune

Center Freq 5.445000000 GHz

Start Freq 5.350000000 GHz

Stop Freq 5.540000000 GHz

CF Step 19.000000 MHz

Auto Man

Freq Offset 0 Hz

5210MHz by 802.11ac(80MHz)



5290MHz by 802.11ac(80MHz)



5530MHz by 802.11ac(80MHz)



5180MHz by 802.11ax(20MHz):



5320MHz by 802.11ax(20MHz):



5500MHz by 802.11ax(20MHz):



5190MHz by 802.11ax(40MHz):



5310MHz by 802.11ax(40MHz):

