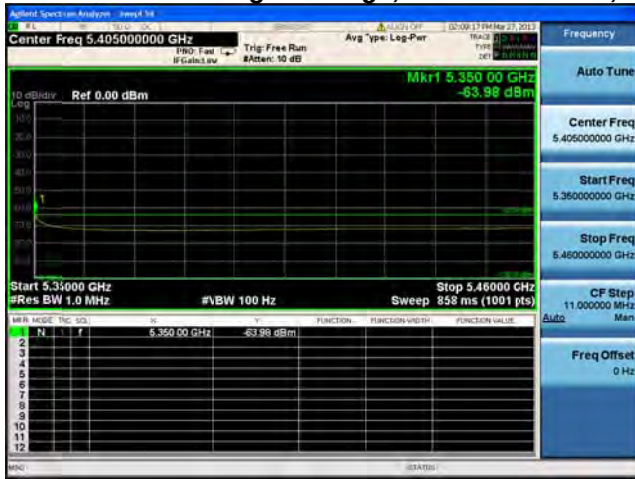
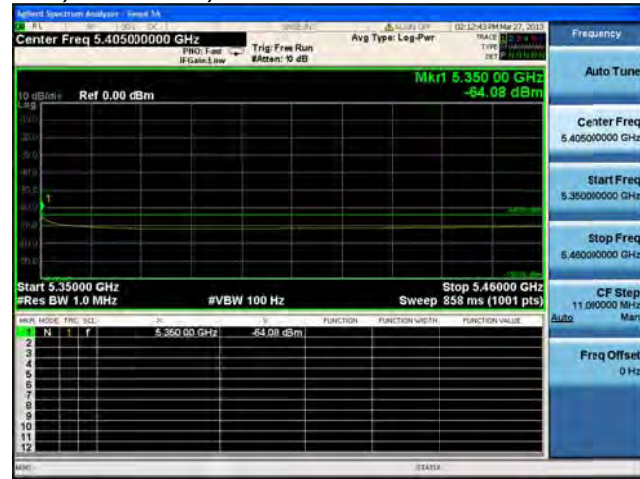
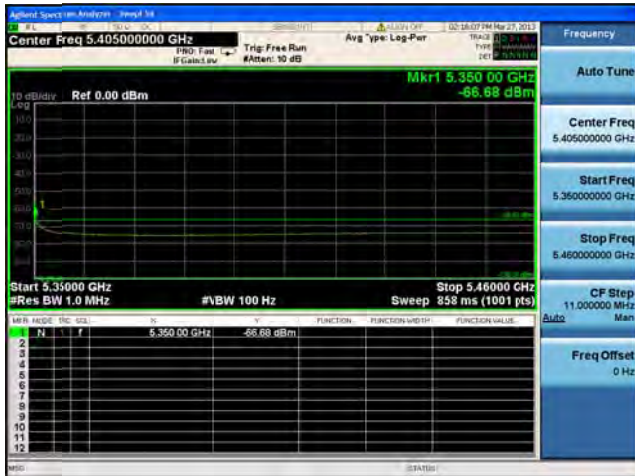
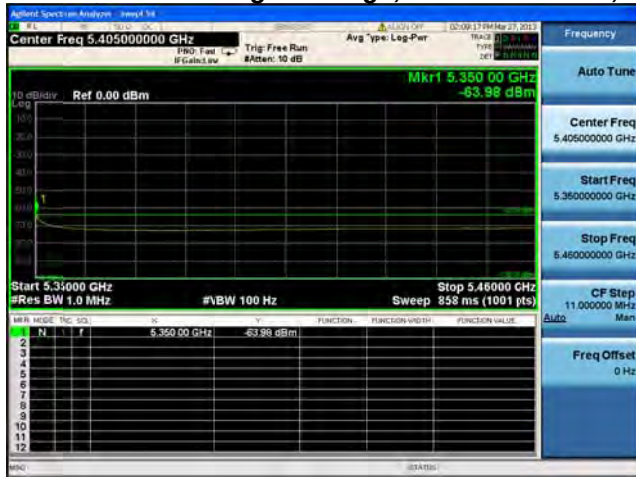
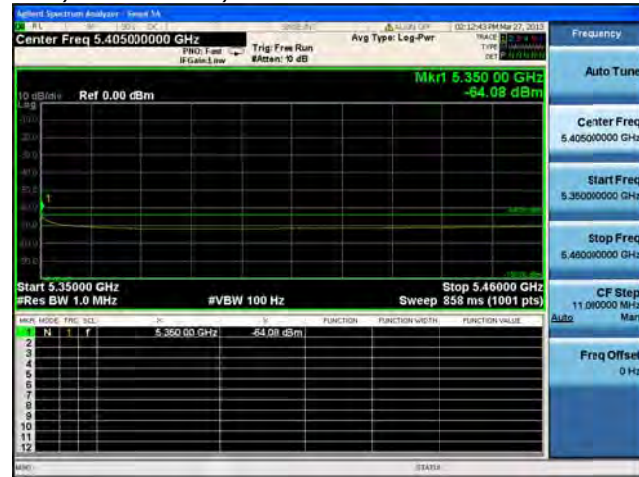
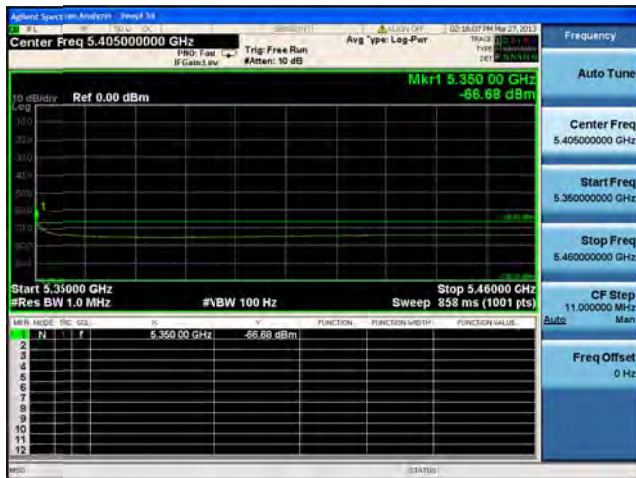
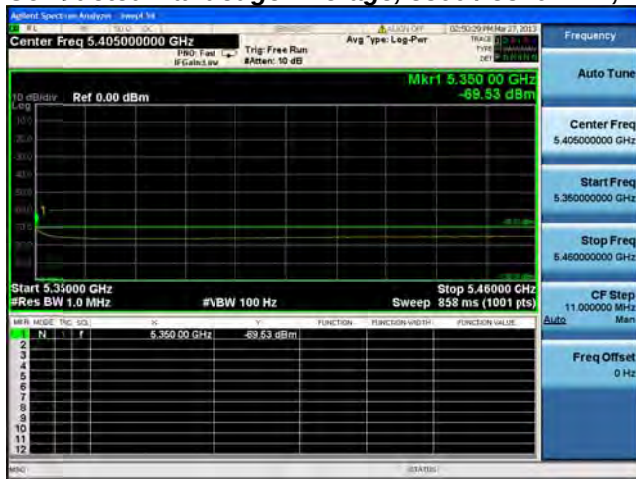
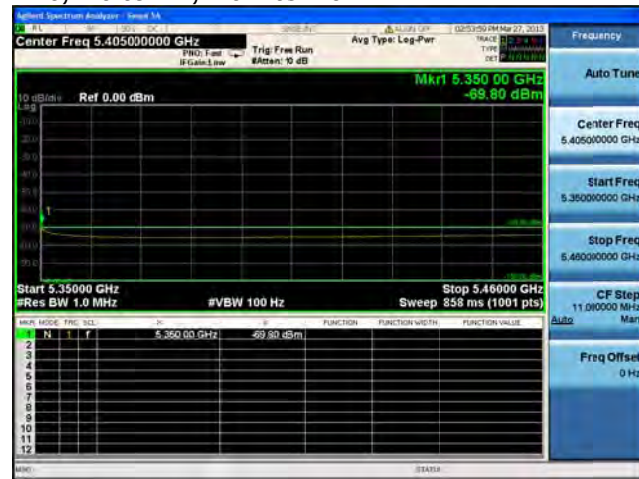
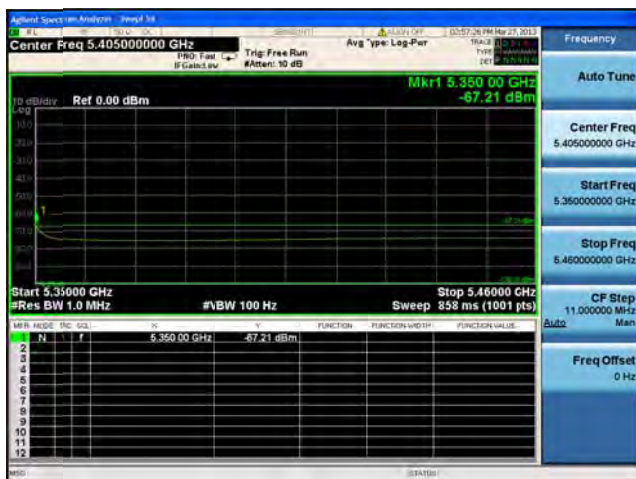
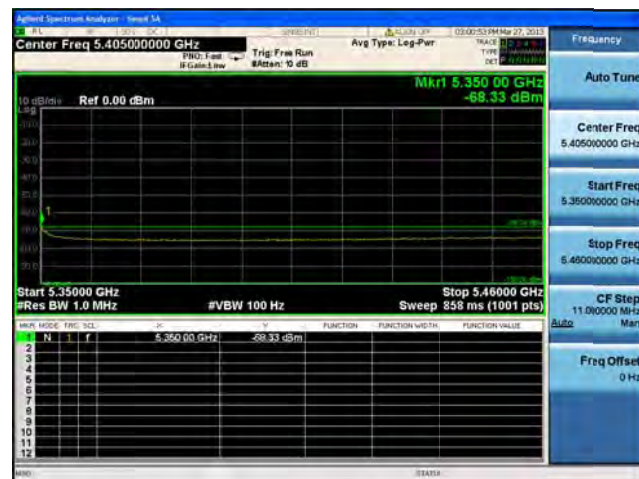
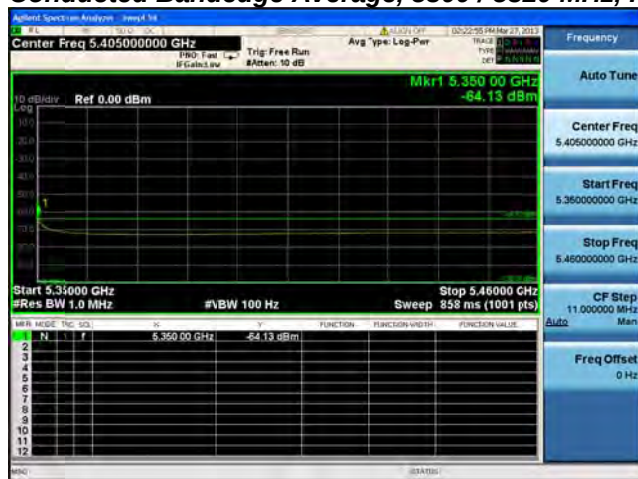
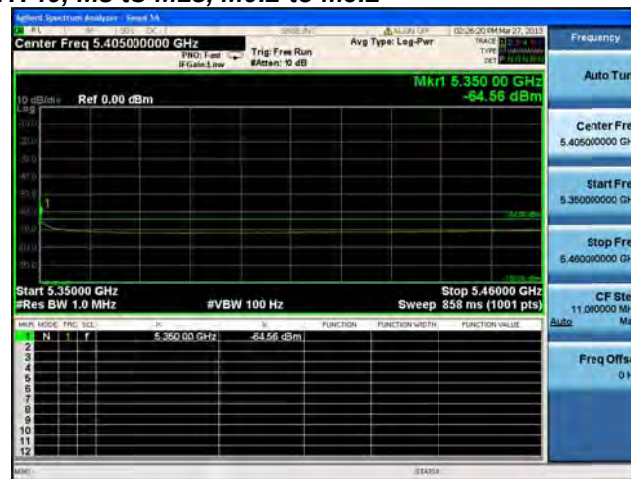
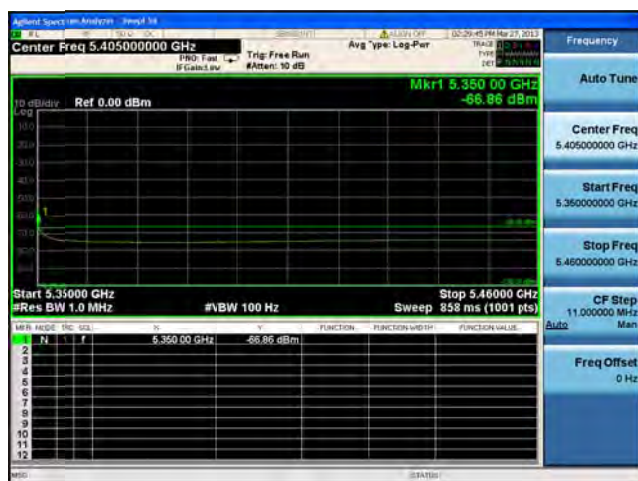
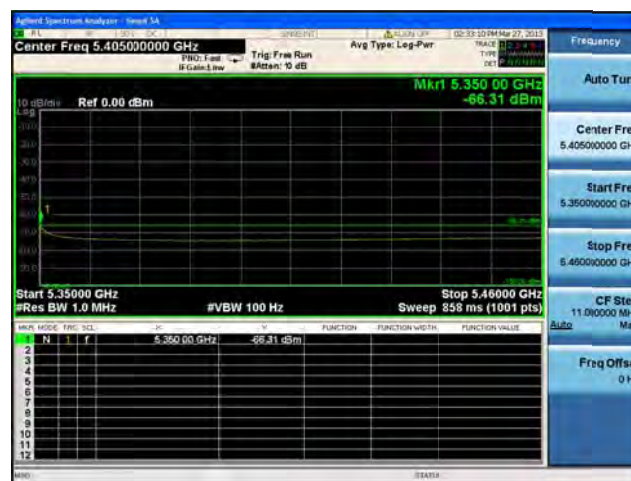
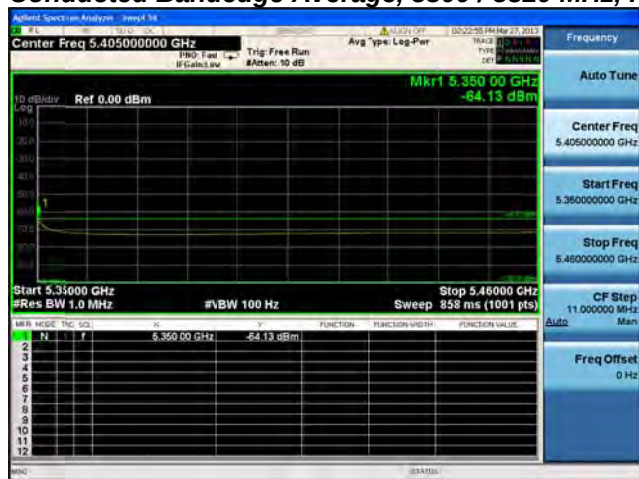
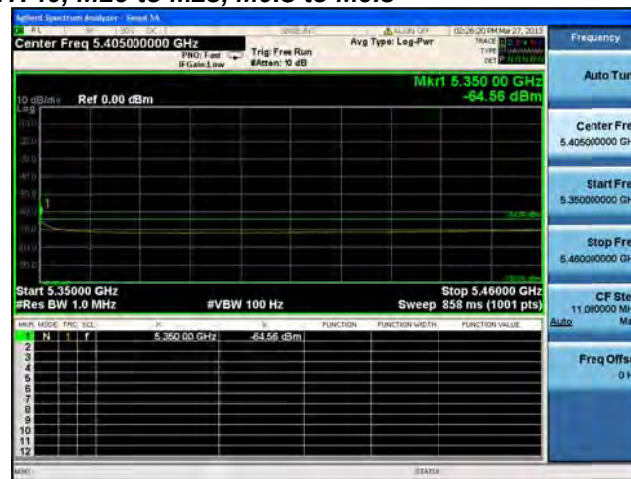
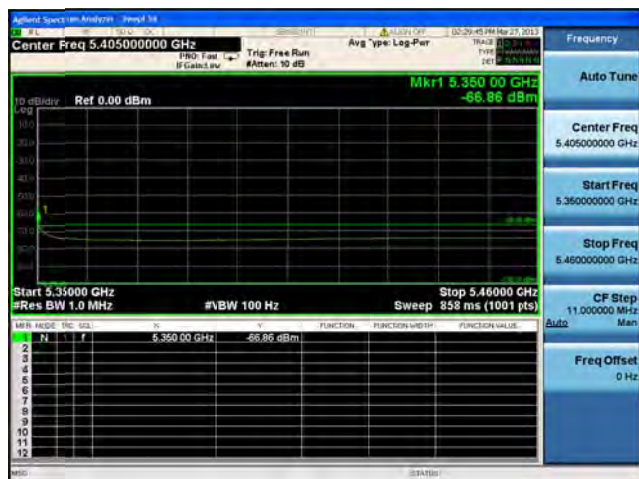
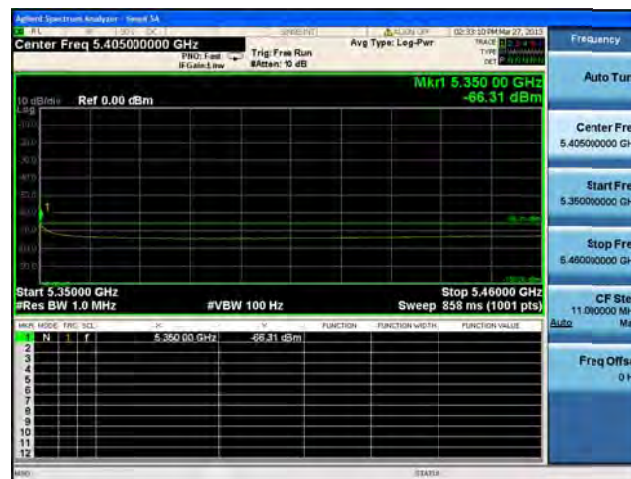


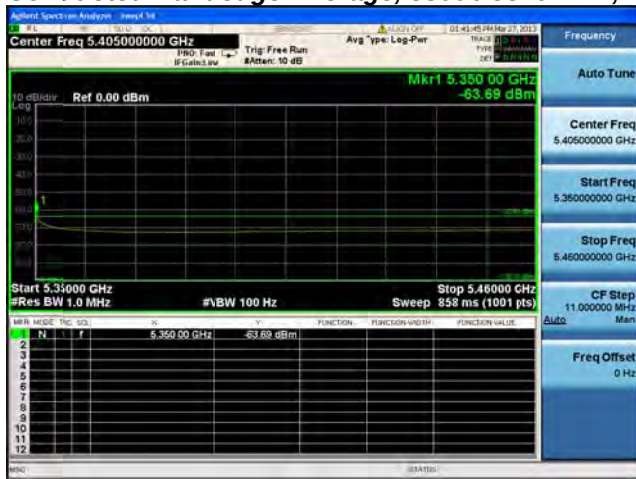
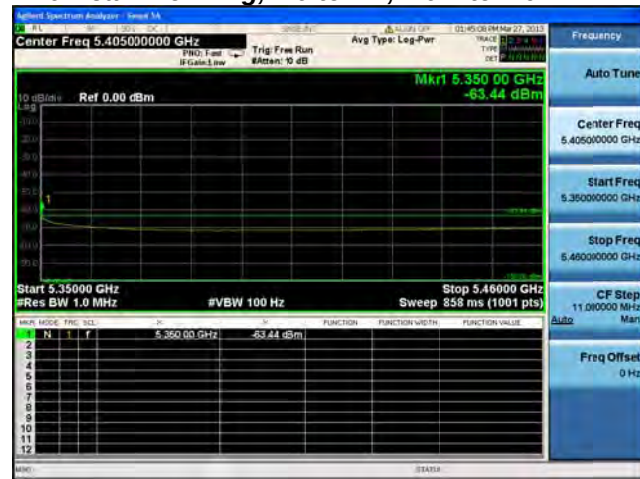
**Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

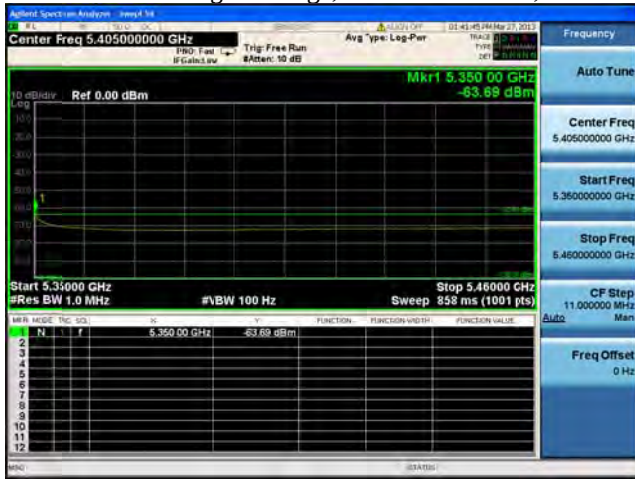
Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

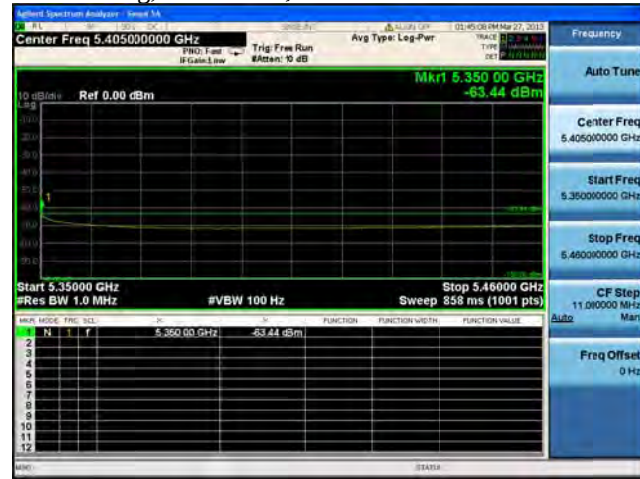
**Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**



Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



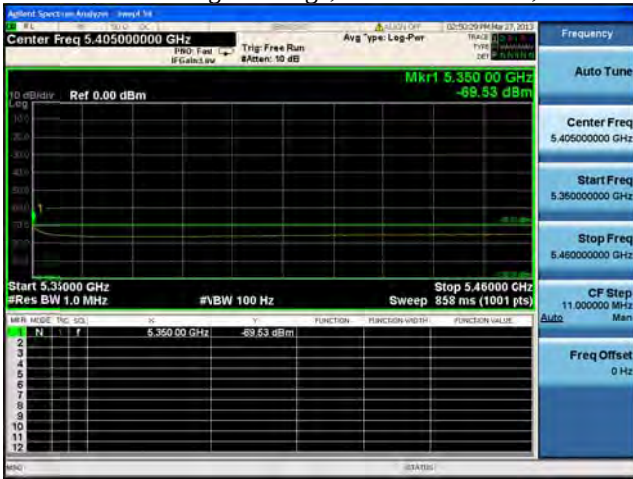
Antenna A



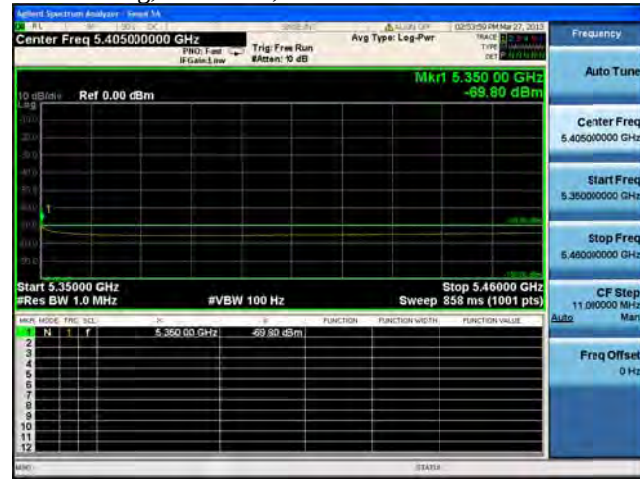
Antenna B



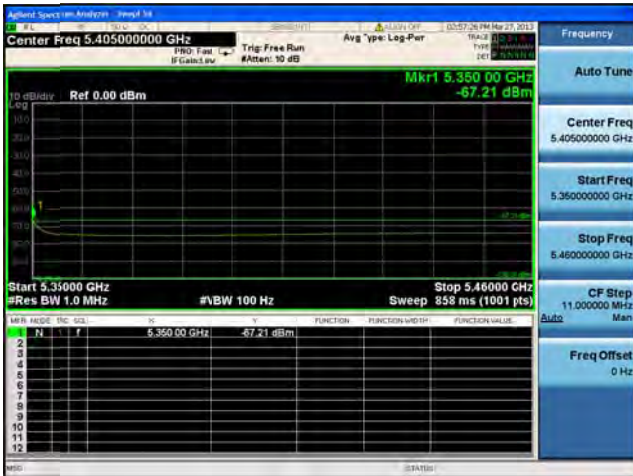
Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1



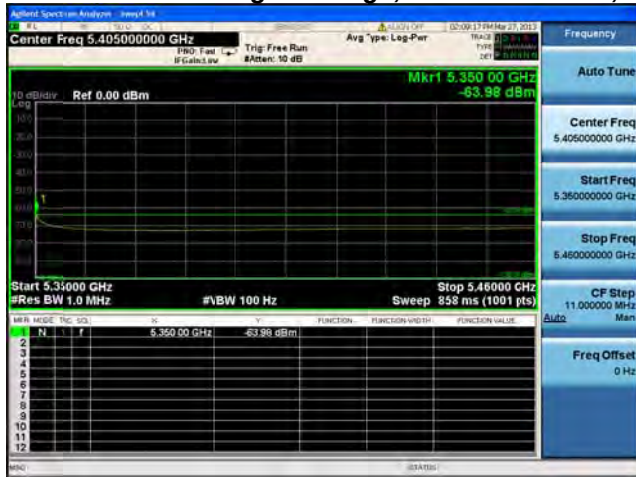
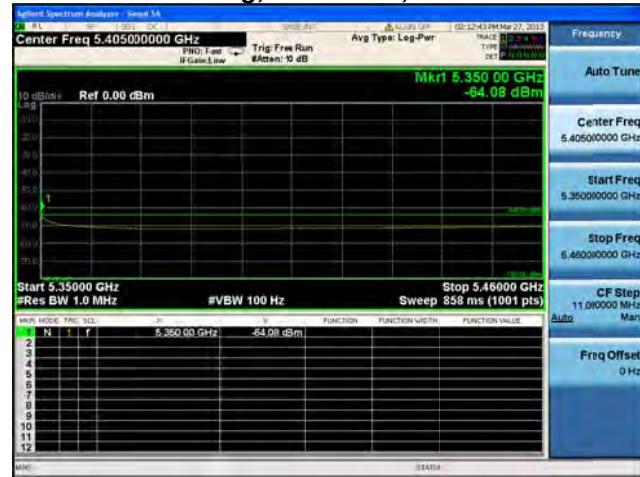
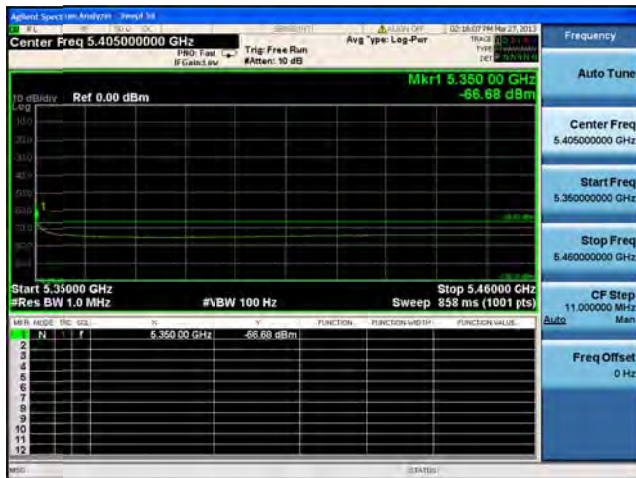
Antenna A

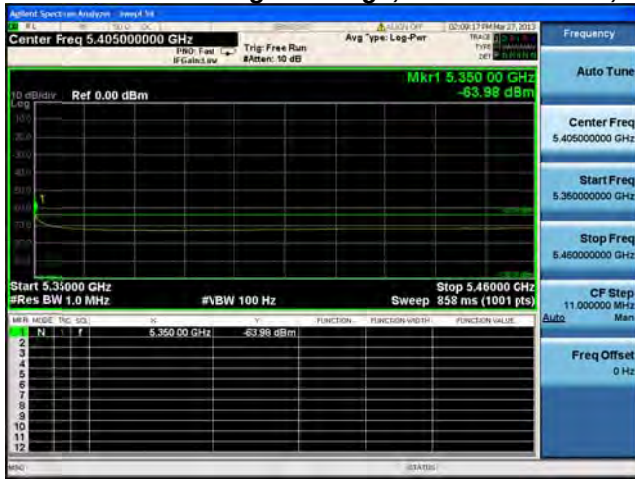
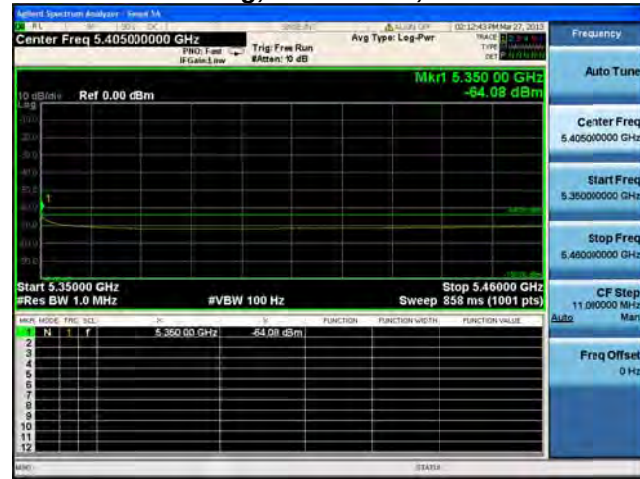
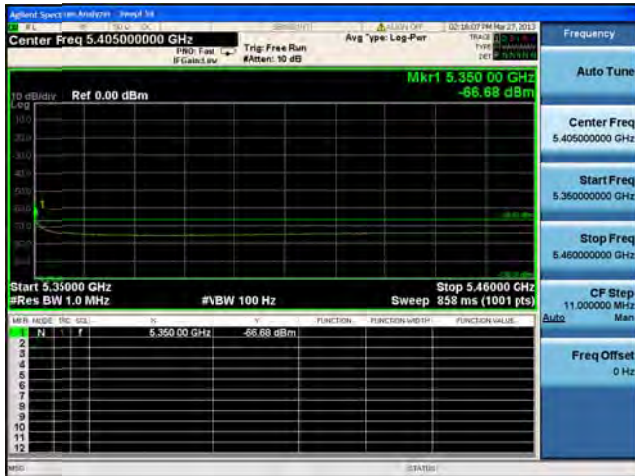


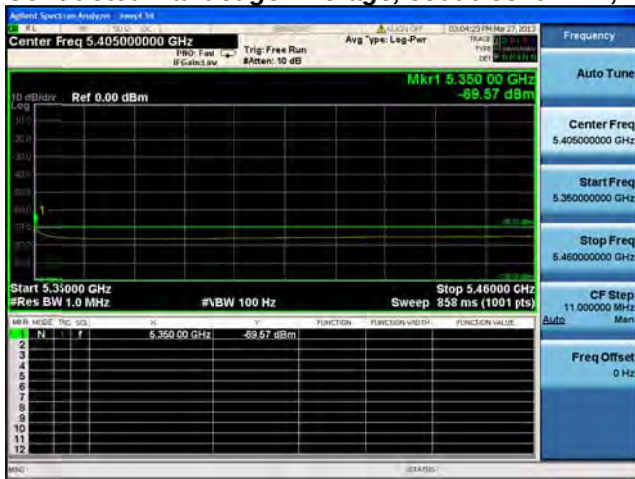
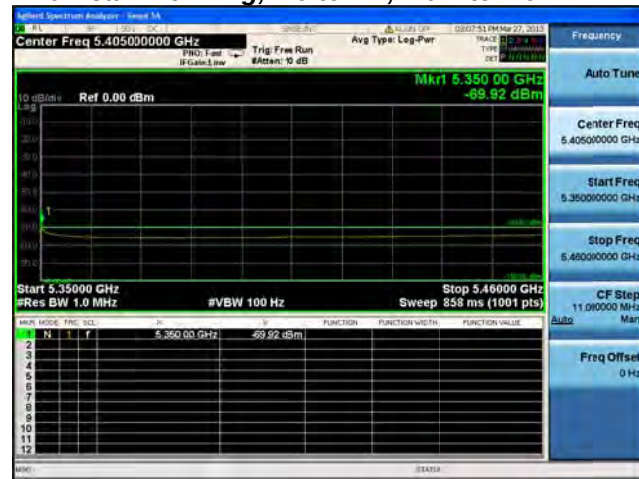
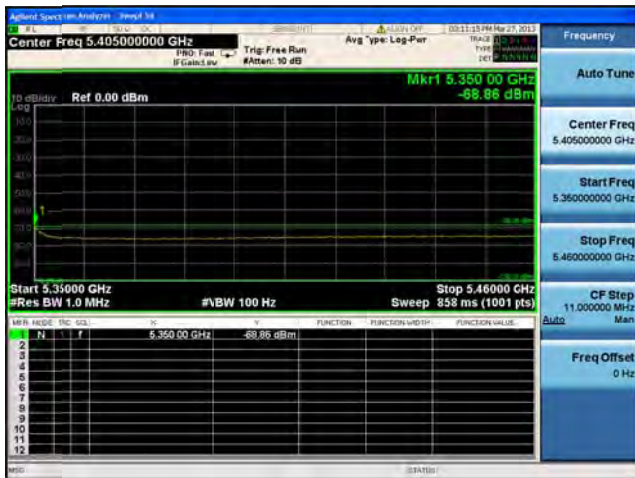
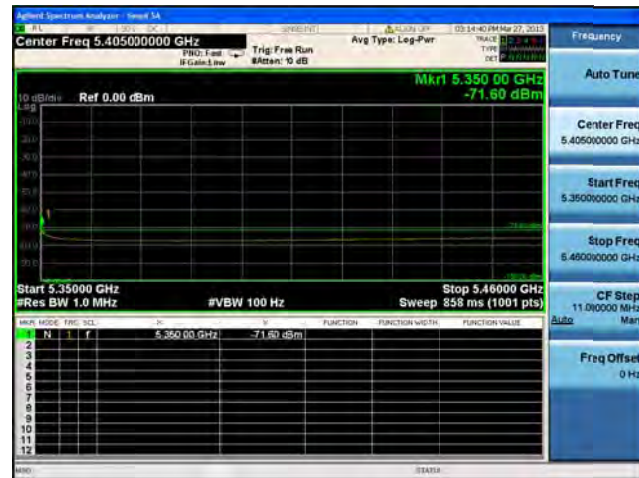
Antenna B

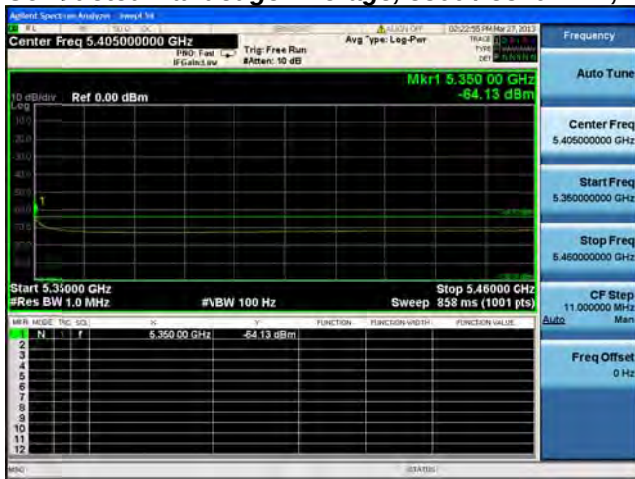
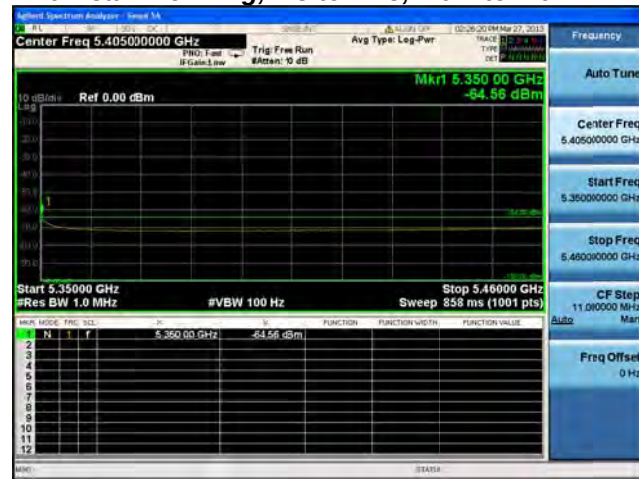
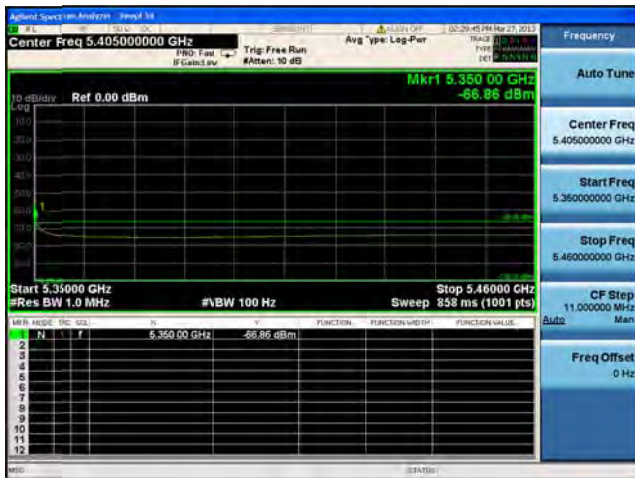
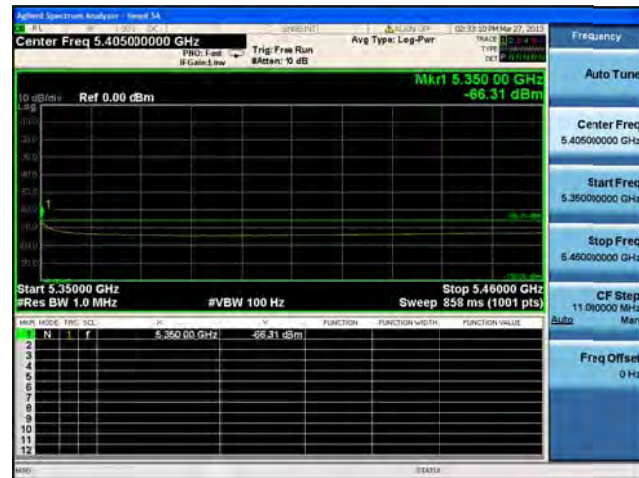


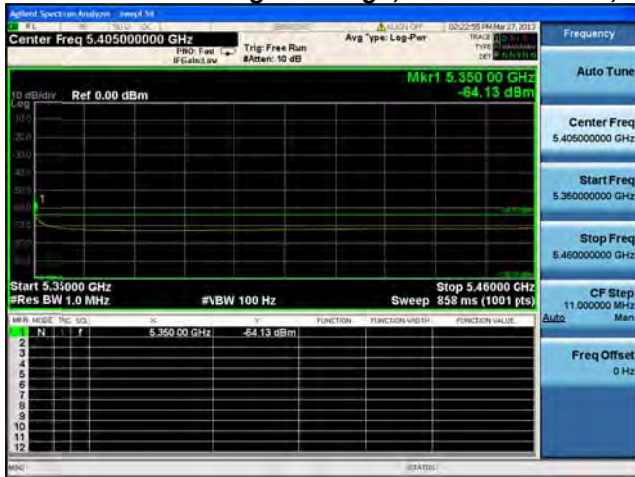
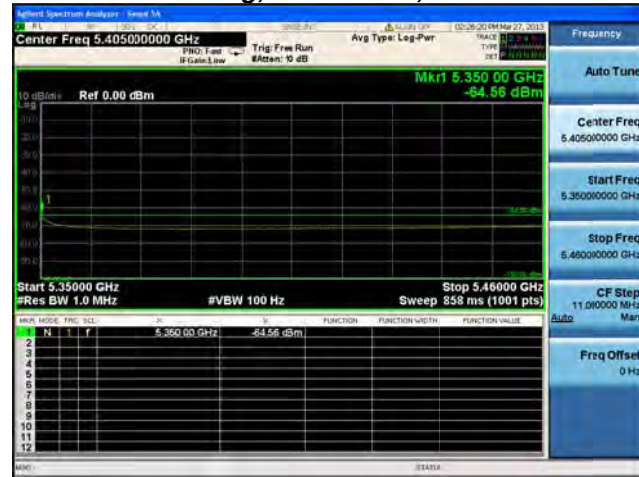
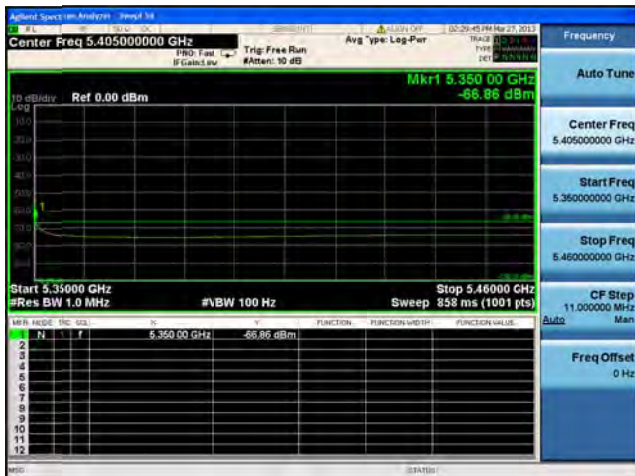
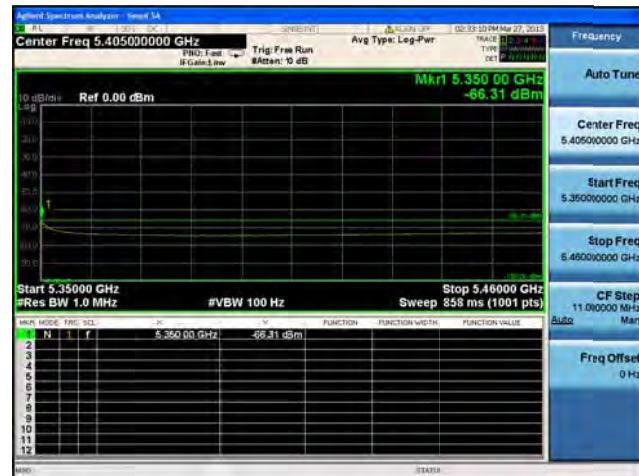
Antenna C

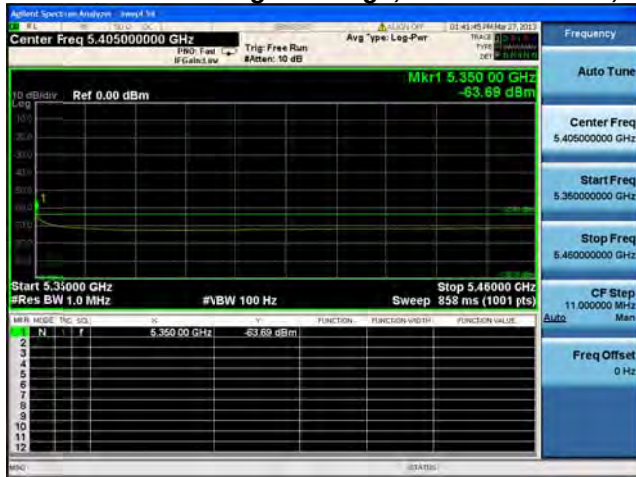
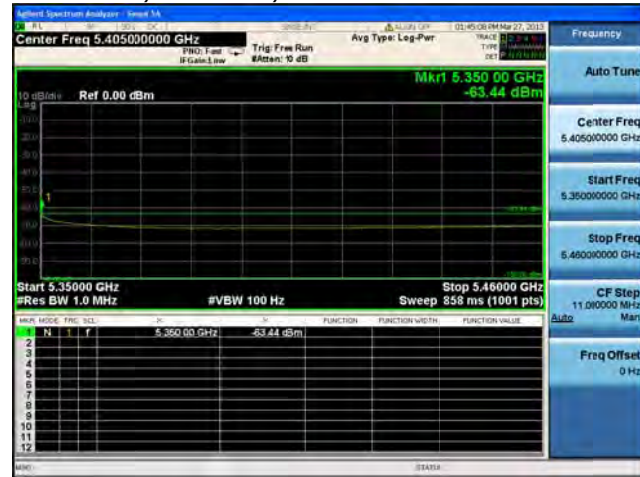
**Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

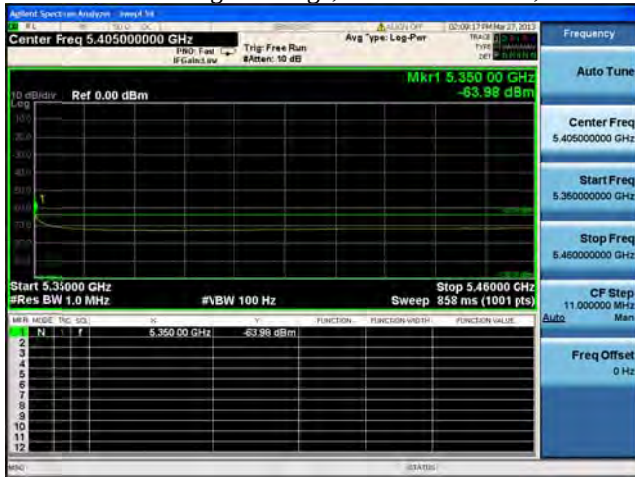
**Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

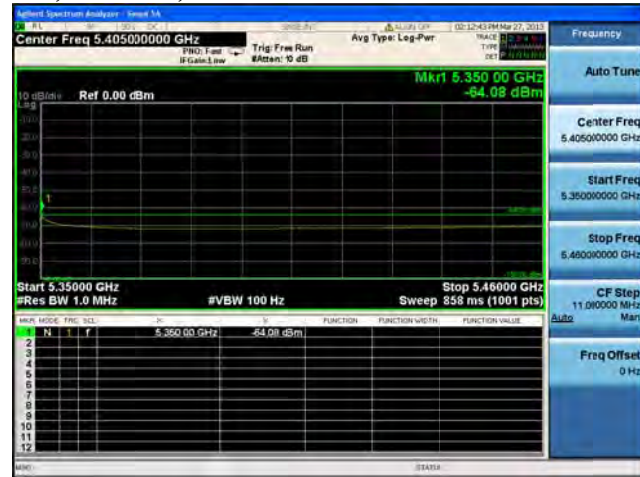
**Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**



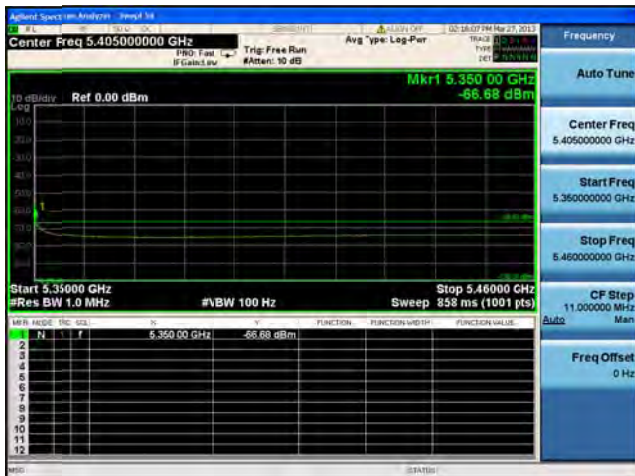
Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



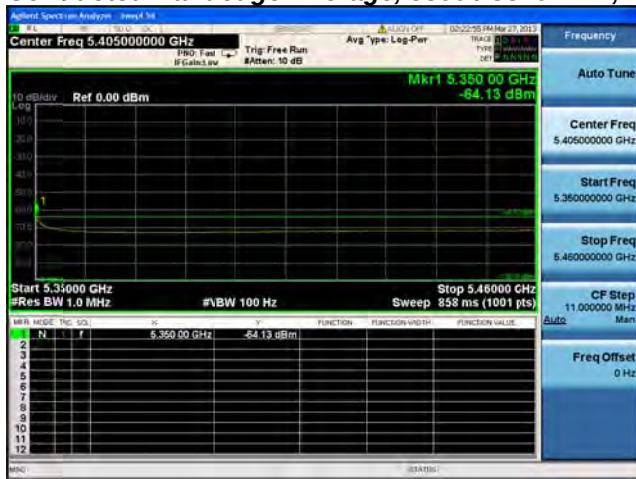
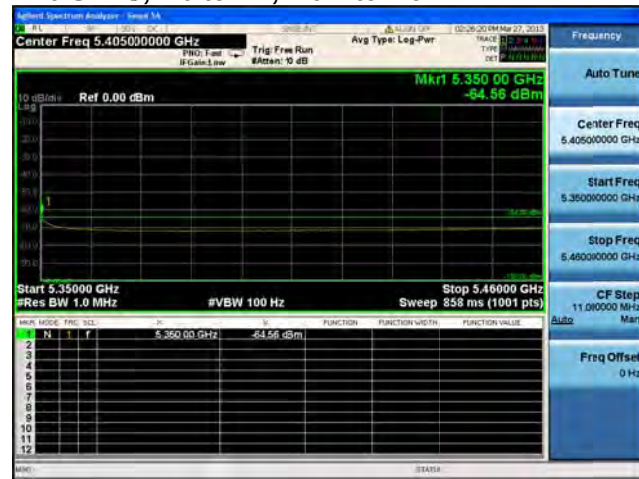
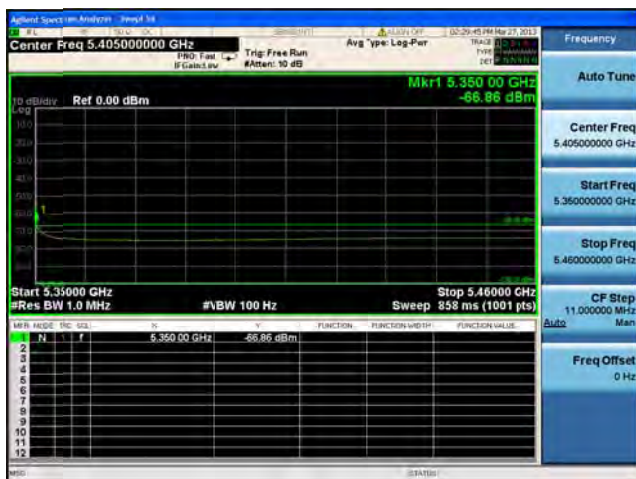
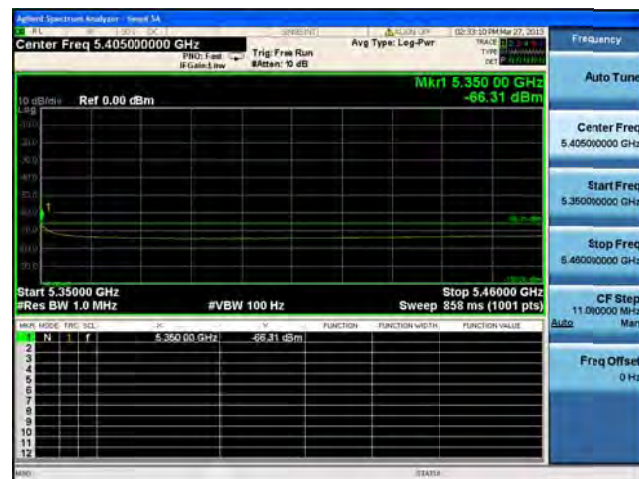
Antenna A

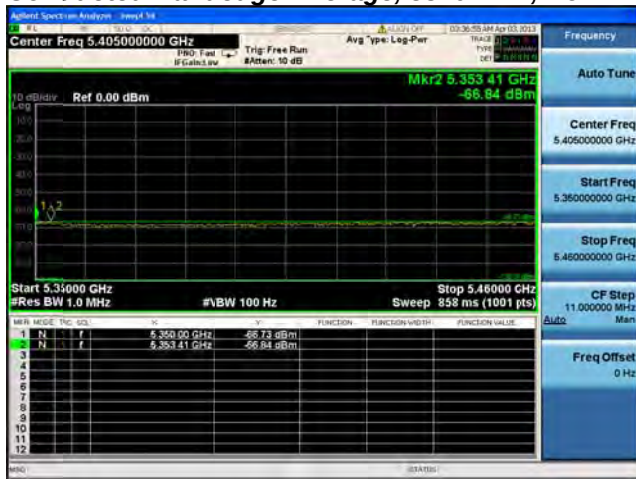


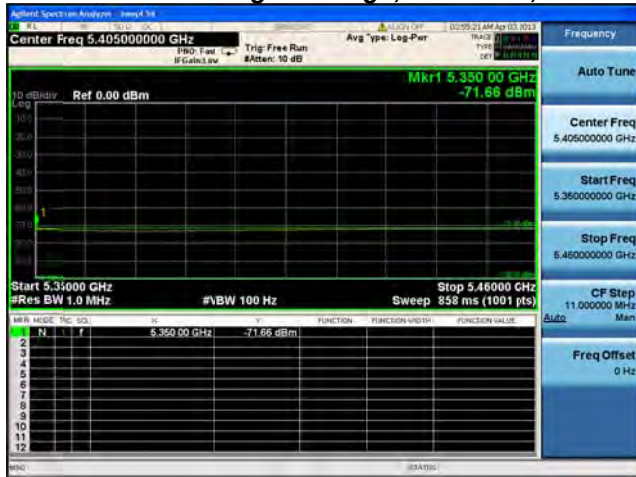
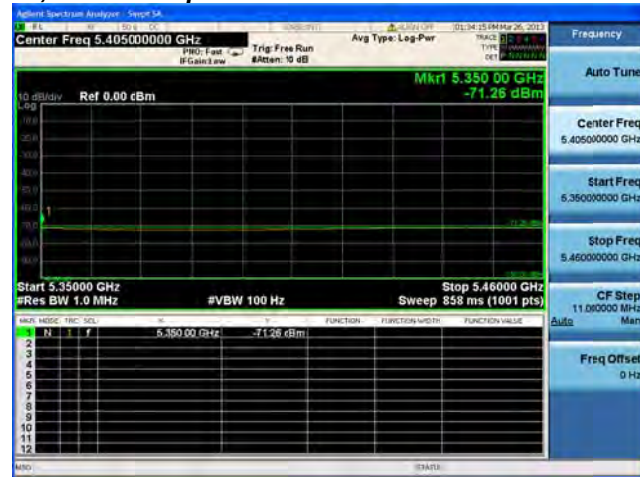
Antenna B



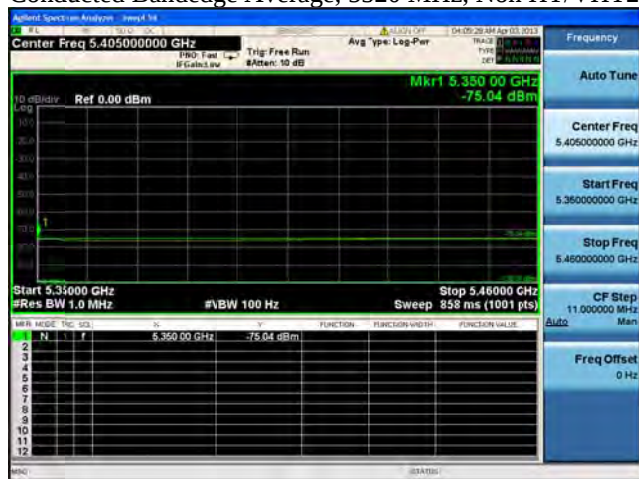
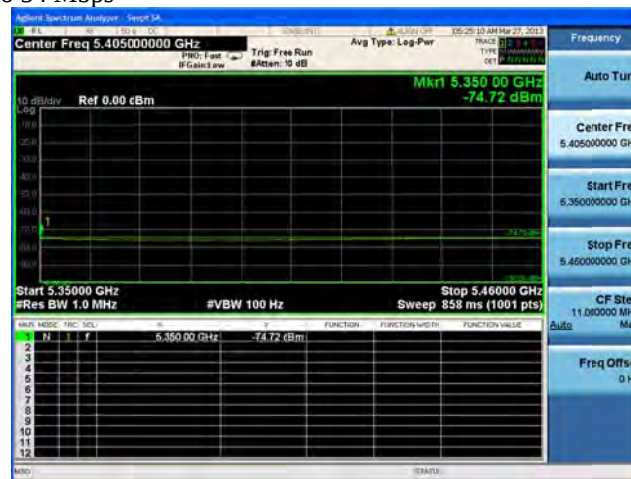
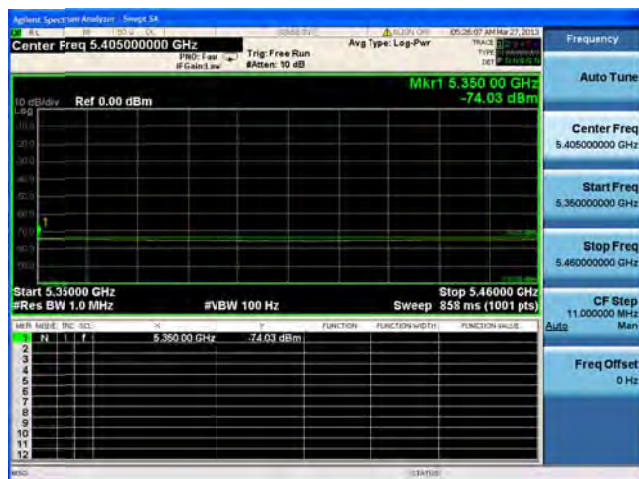
Antenna C

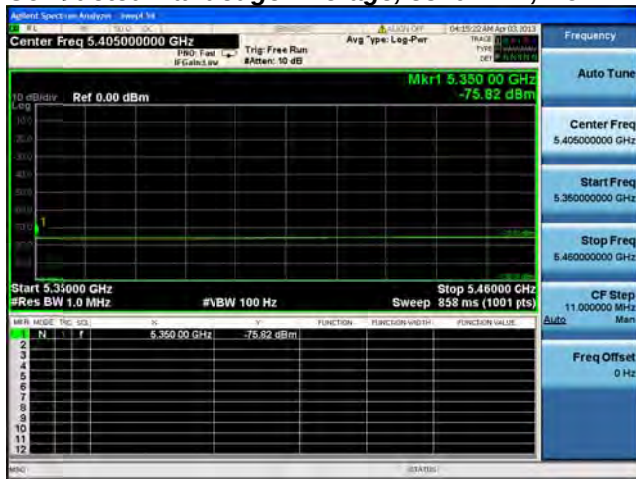
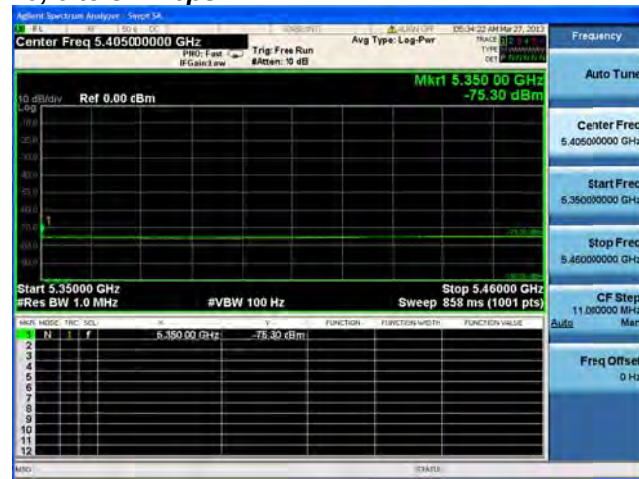
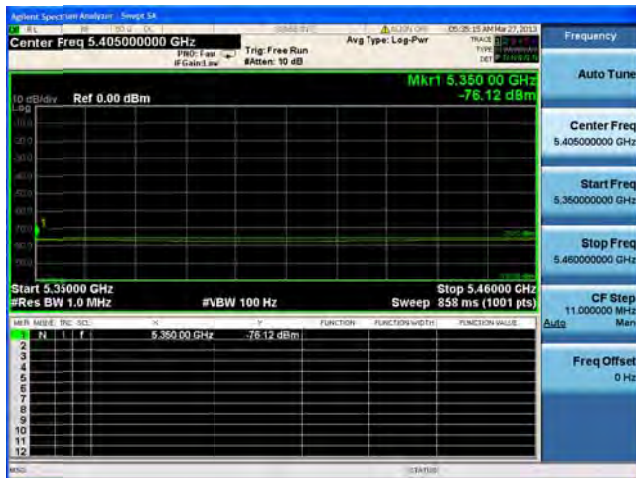
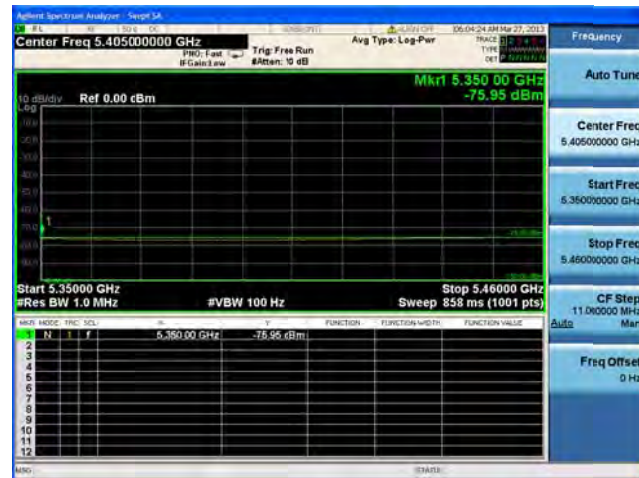
Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

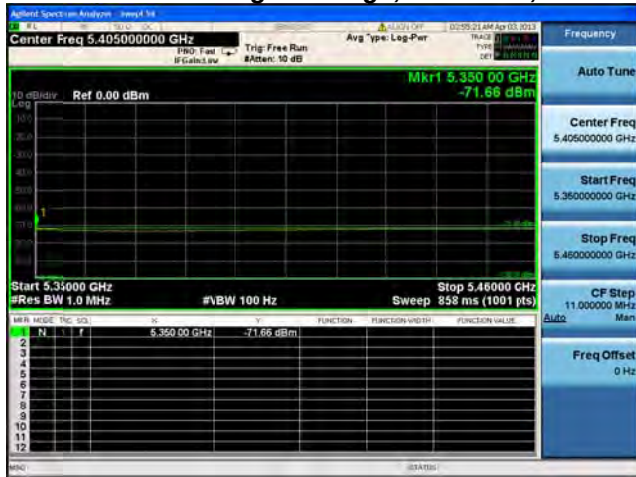
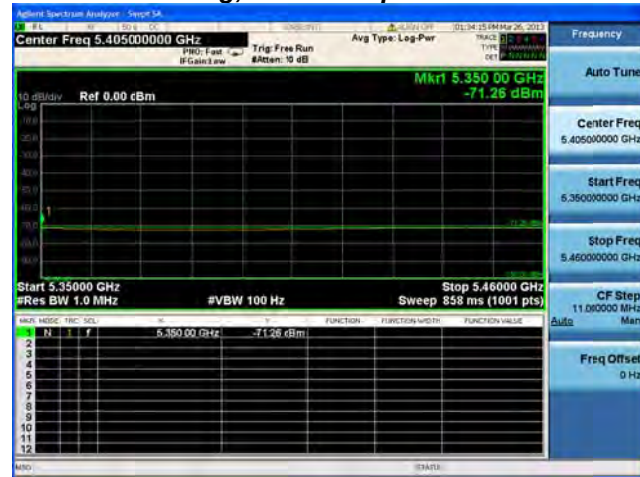
**Conducted Bandedge Average, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A**

**Conducted Bandedge Average, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B**

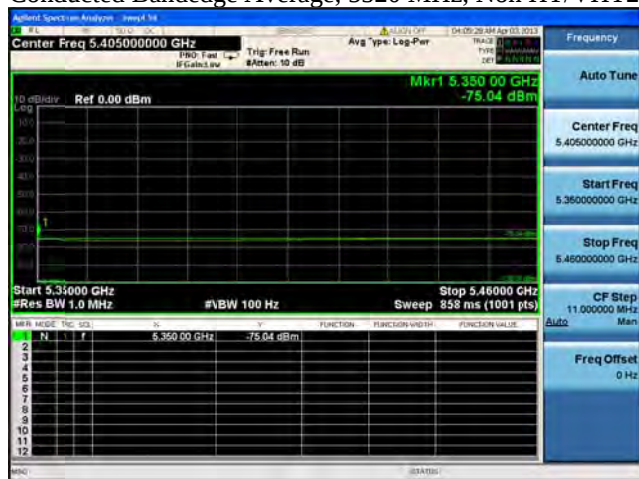
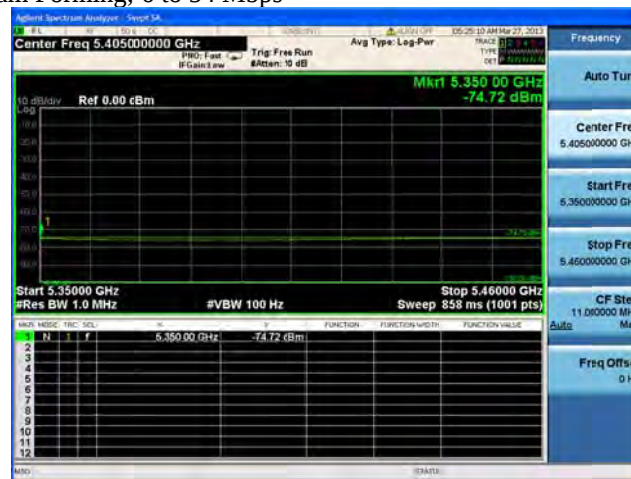
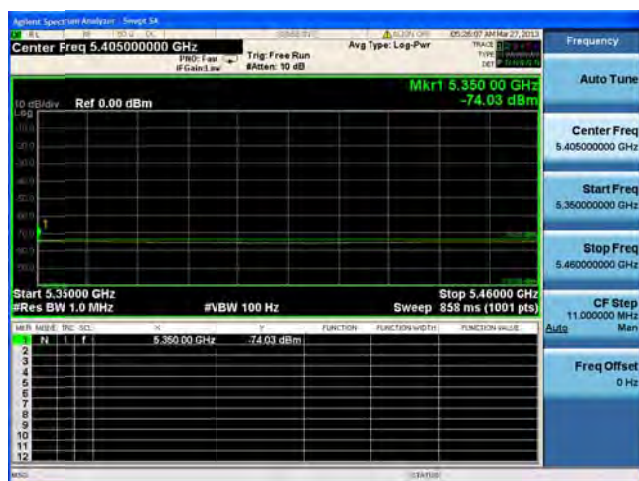
Conducted Bandedge Average, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps

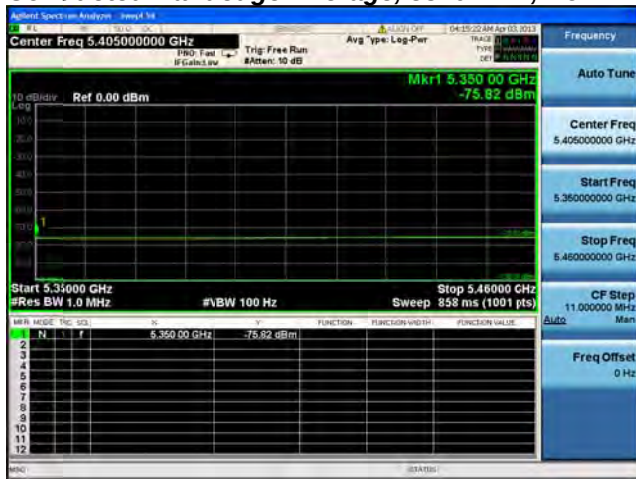
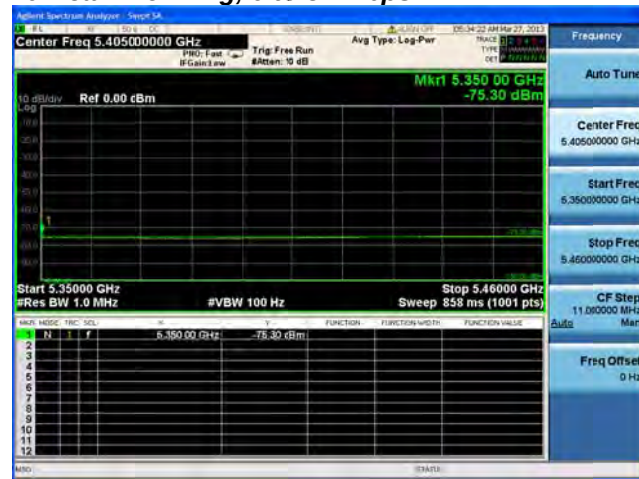
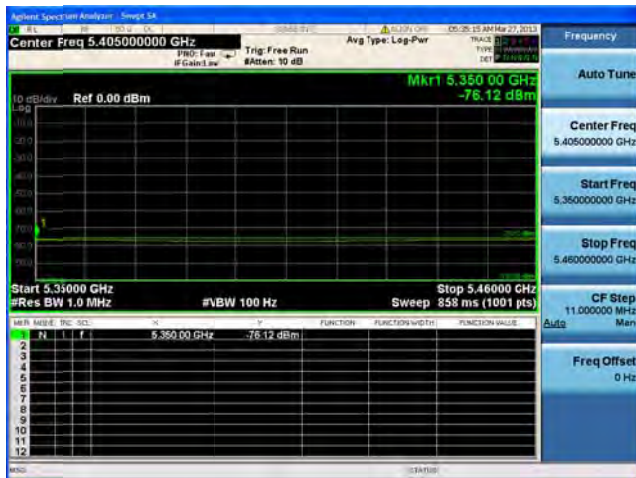
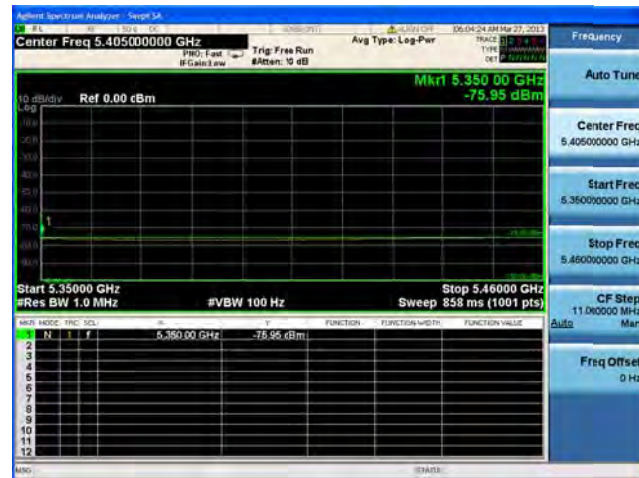
**Antenna A****Antenna B****Antenna C**

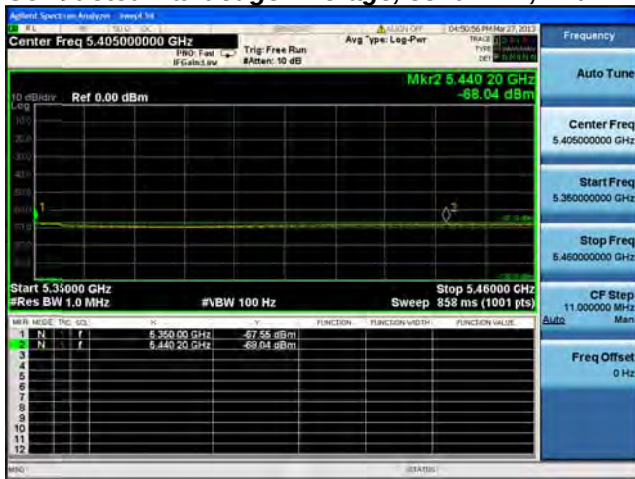
**Conducted Bandedge Average, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

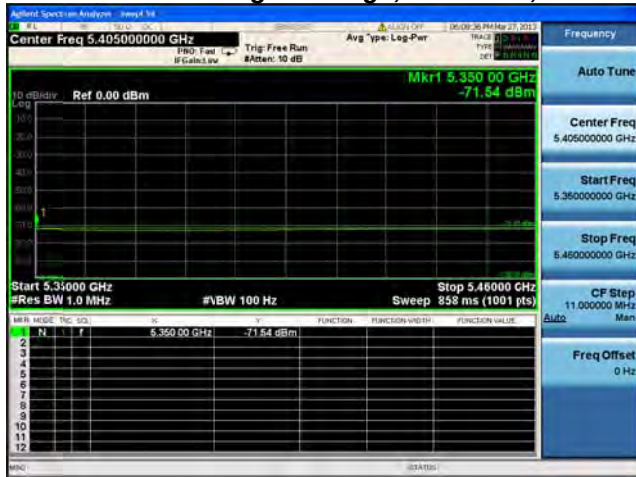
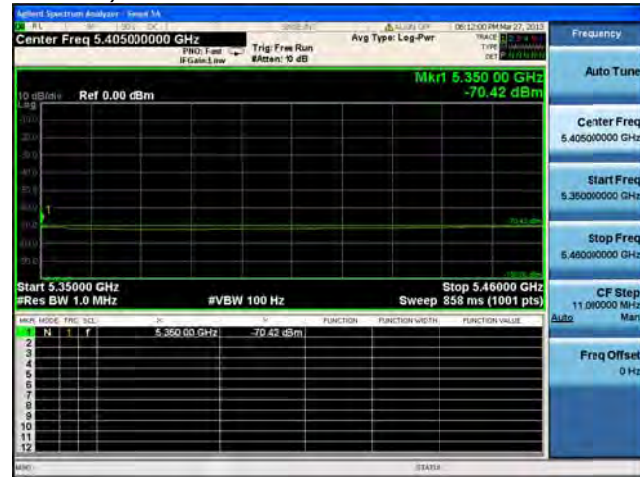
**Conducted Bandedge Average, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B**

Conducted Bandedge Average, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps

**Antenna A****Antenna B****Antenna C**

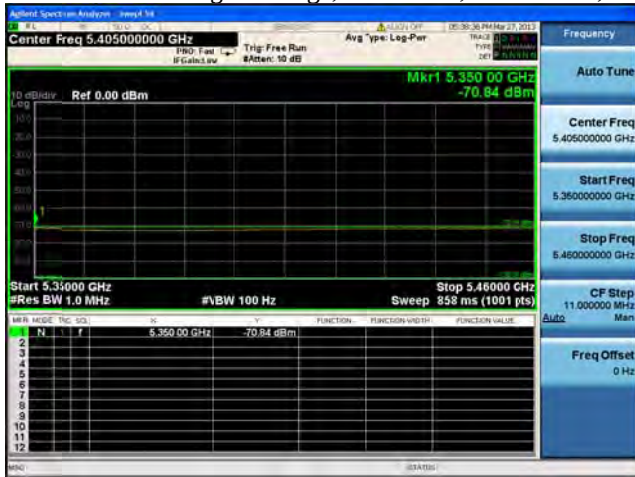
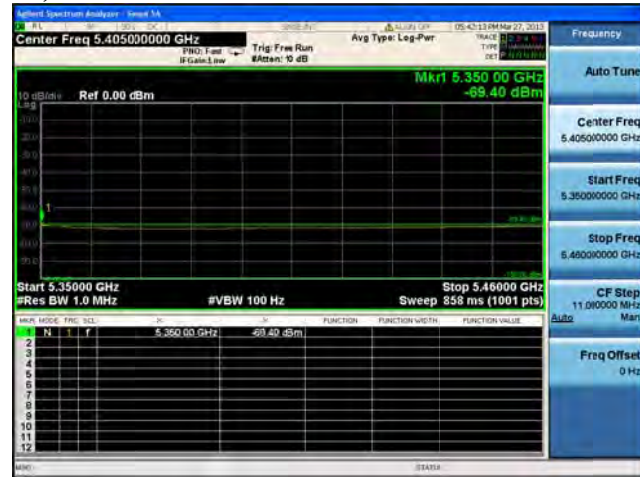
**Conducted Bandedge Average, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1****Antenna A**

Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

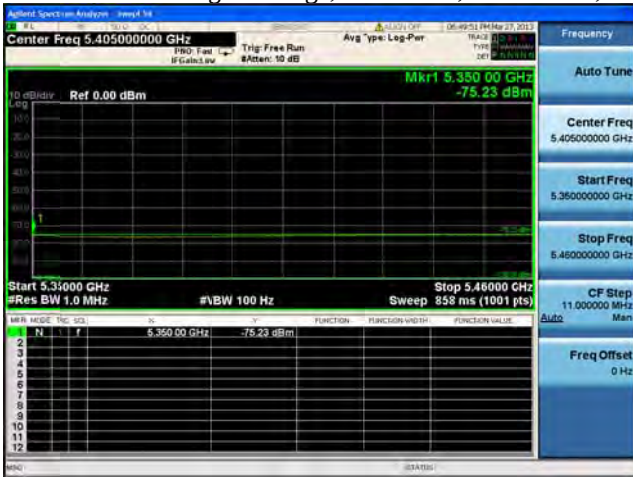


Conducted Bandedge Average, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2

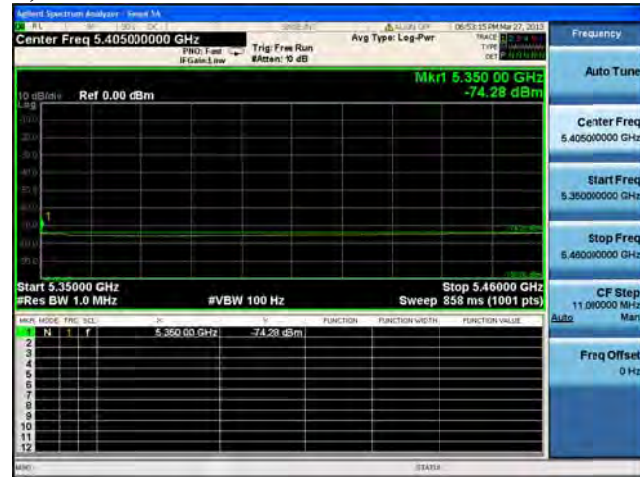
**Antenna A****Antenna B**



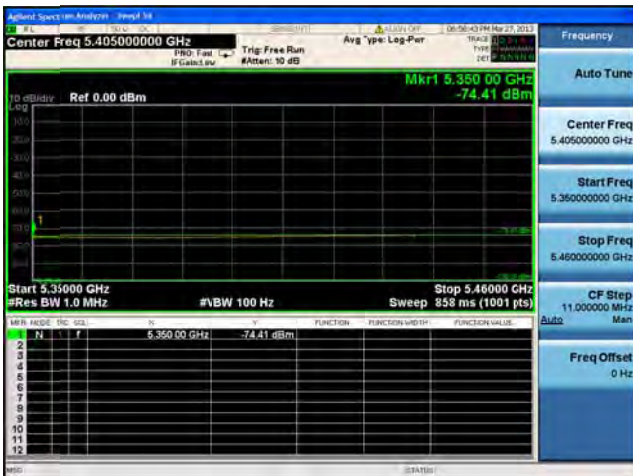
Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



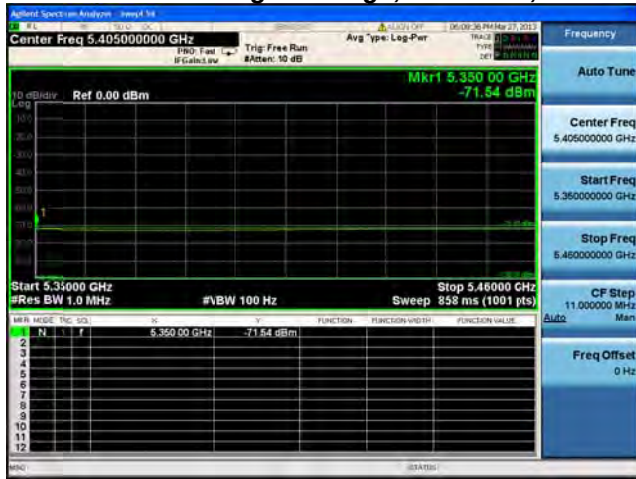
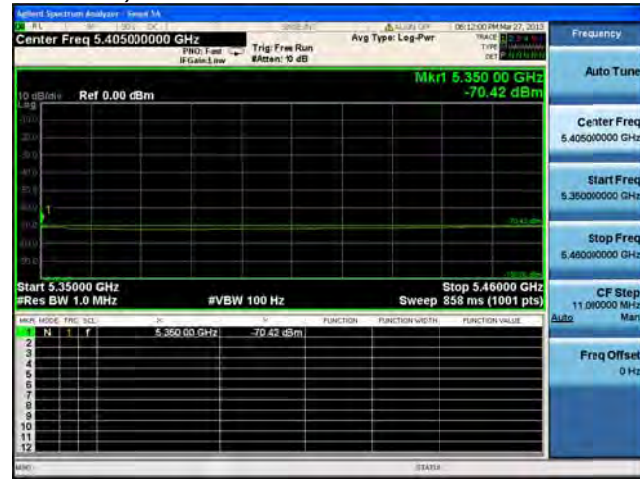
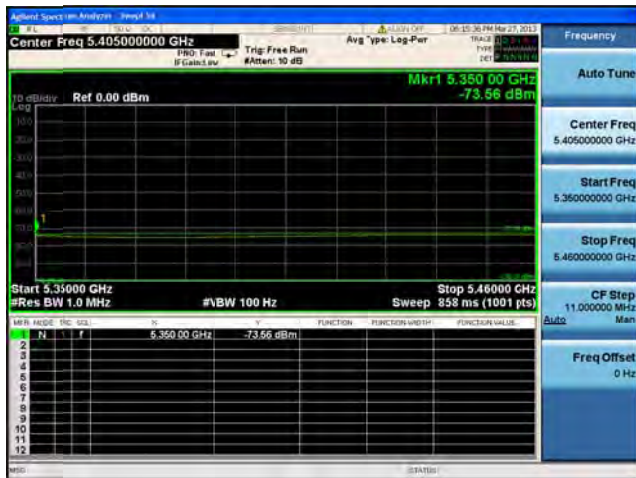
Antenna A

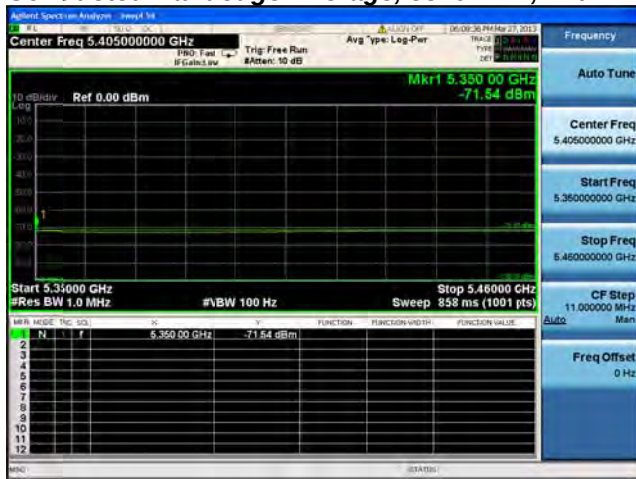
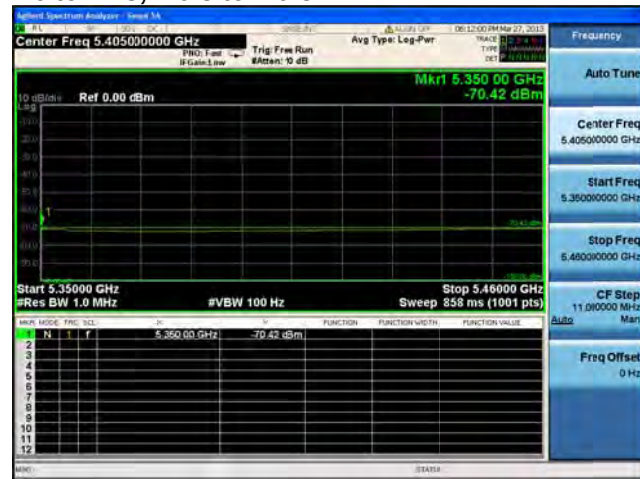
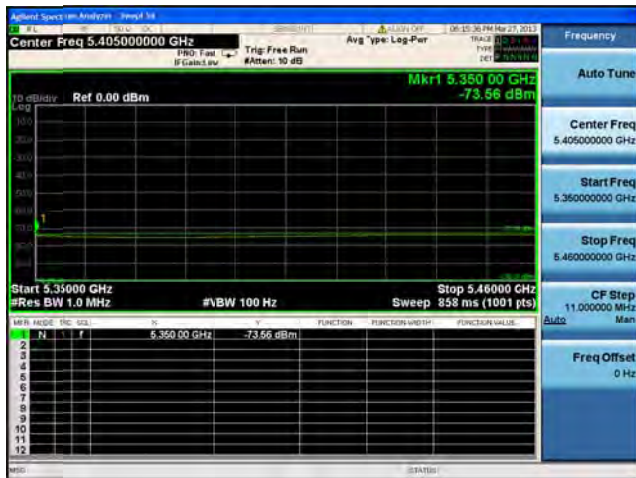


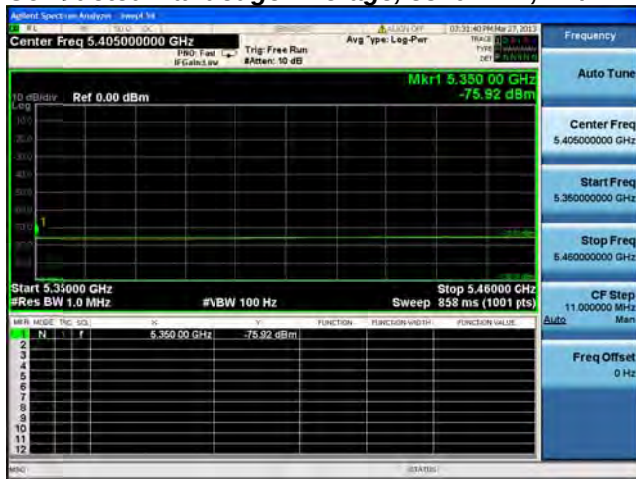
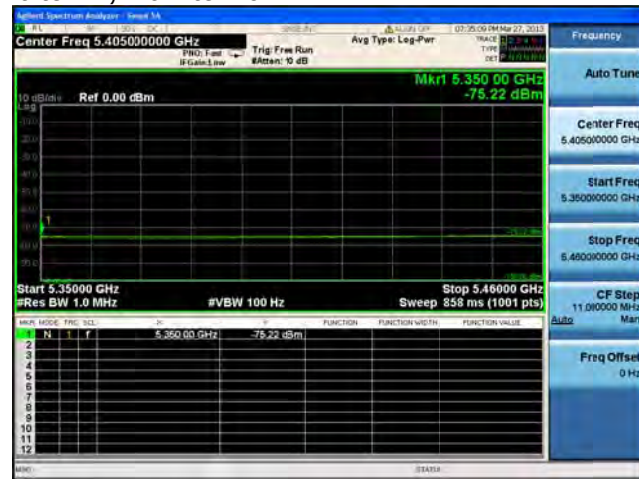
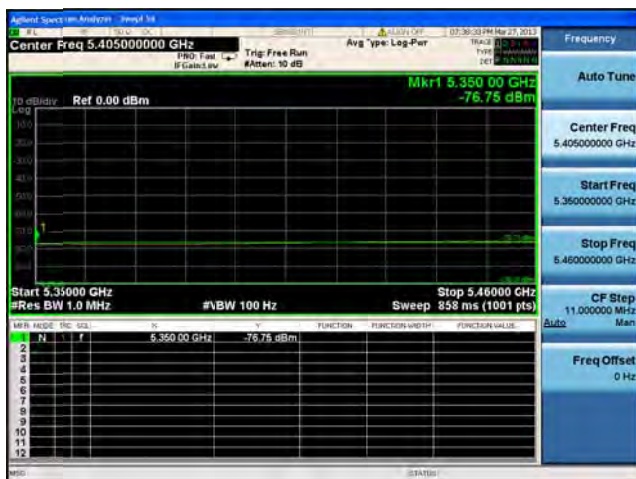
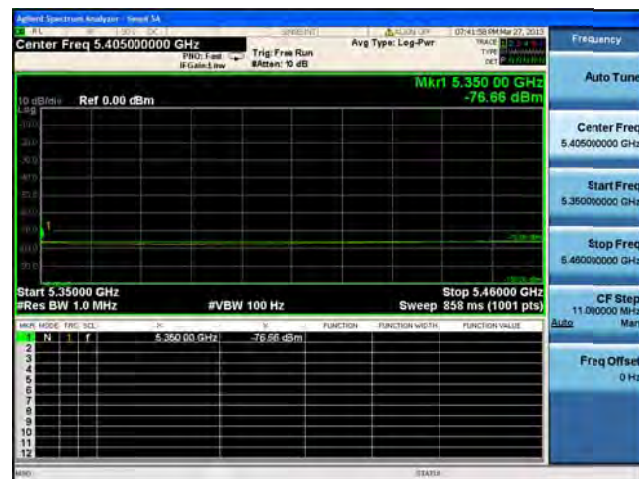
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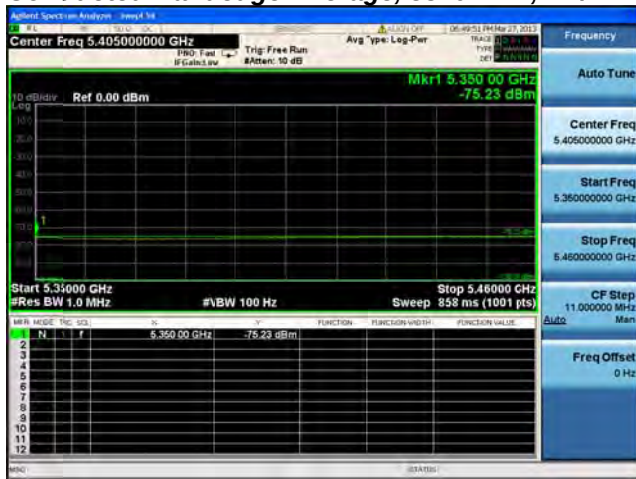
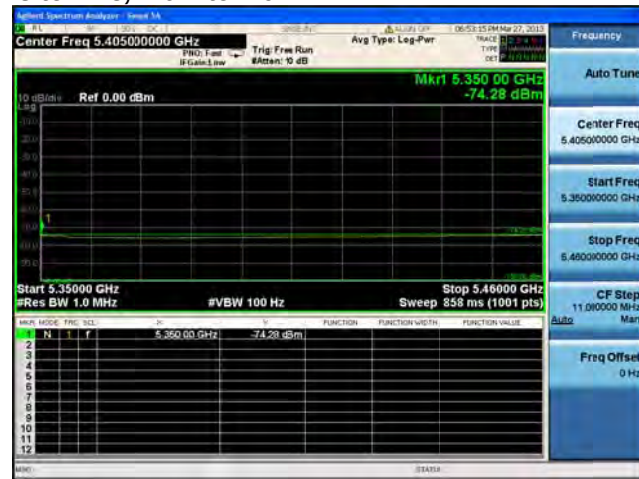
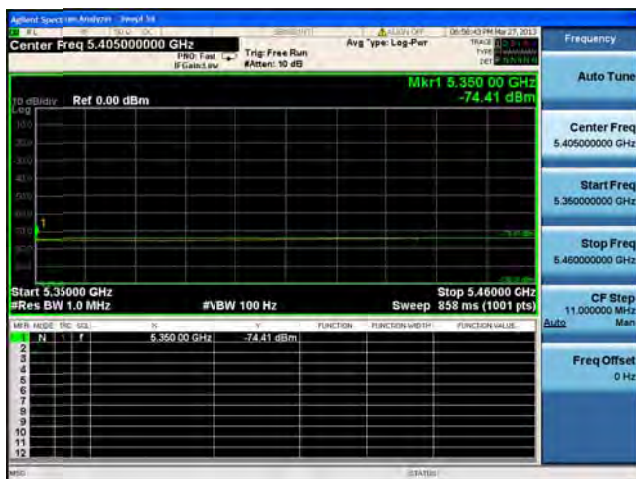
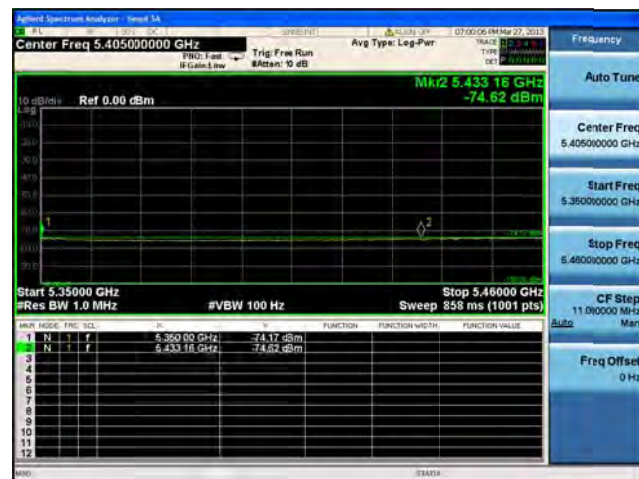


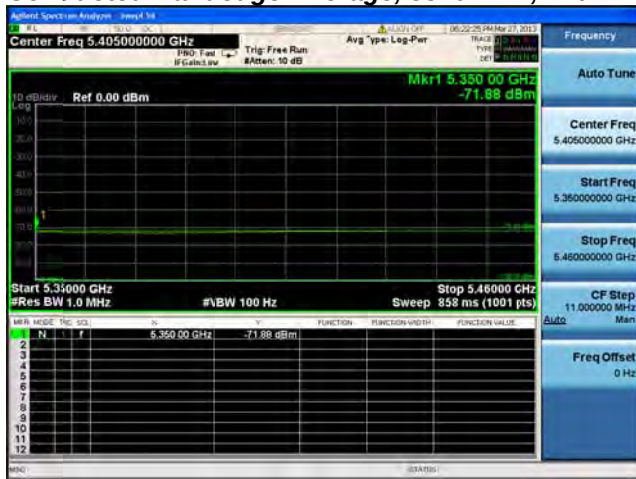
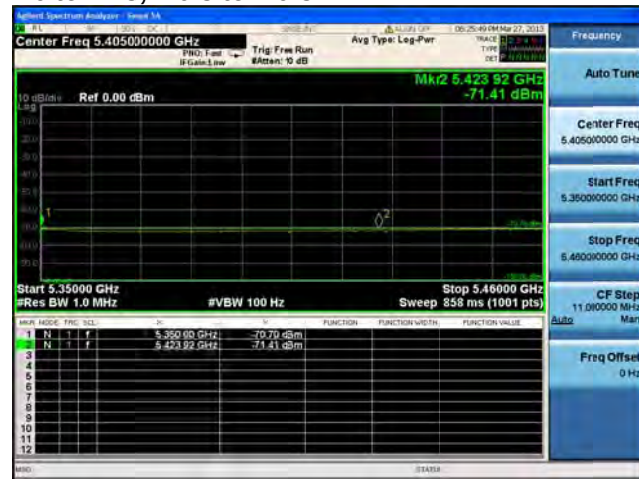
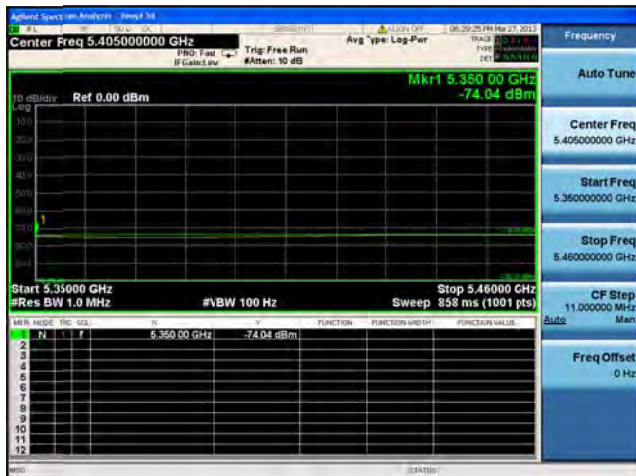
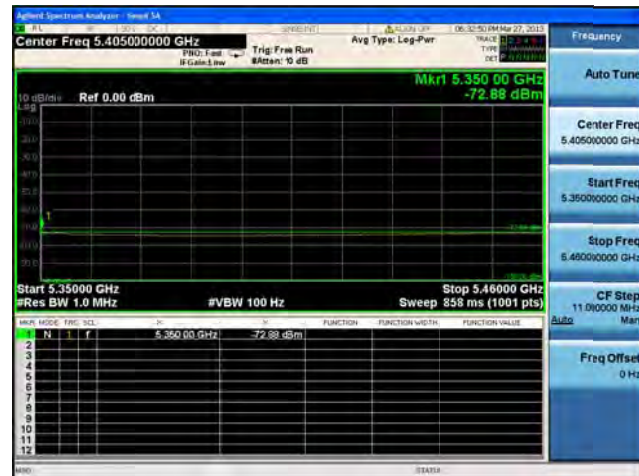
Antenna C

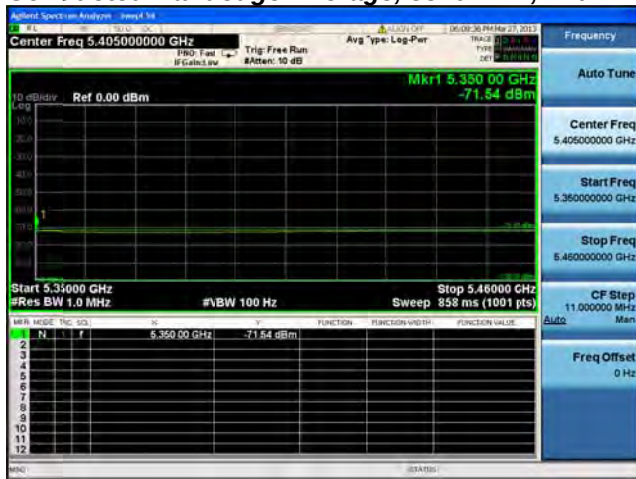
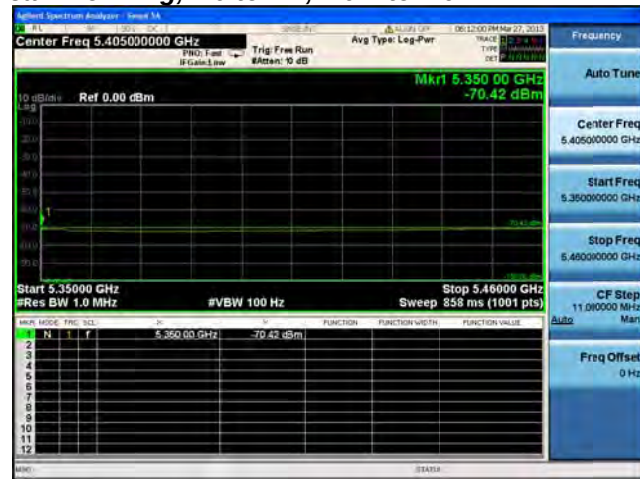
**Conducted Bandedge Average, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Average, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

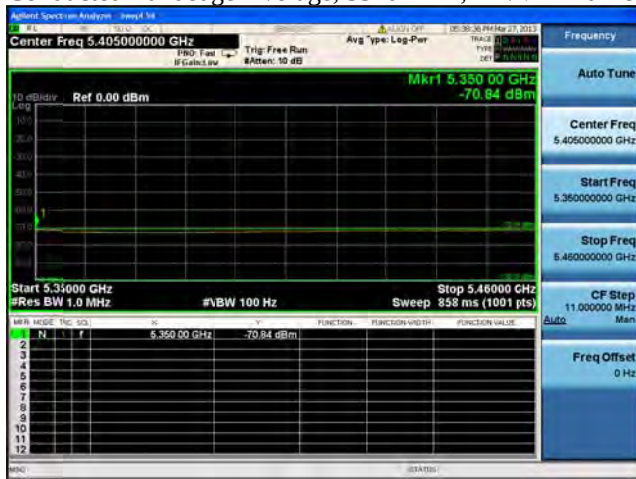
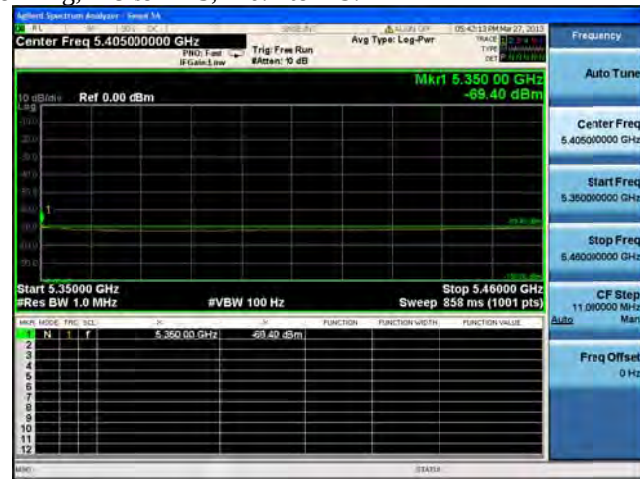
Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Average, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Average, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

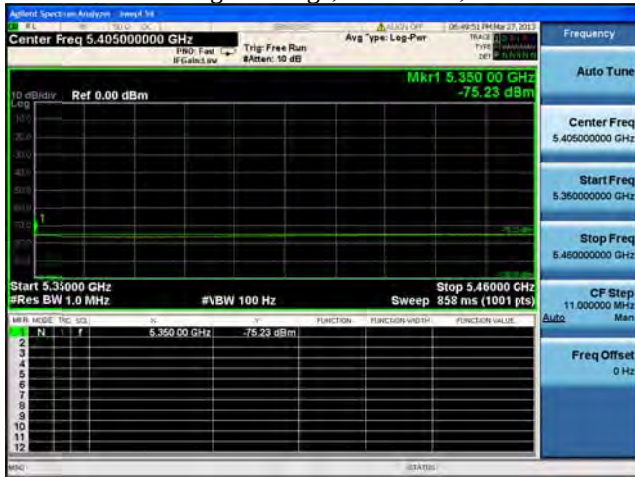
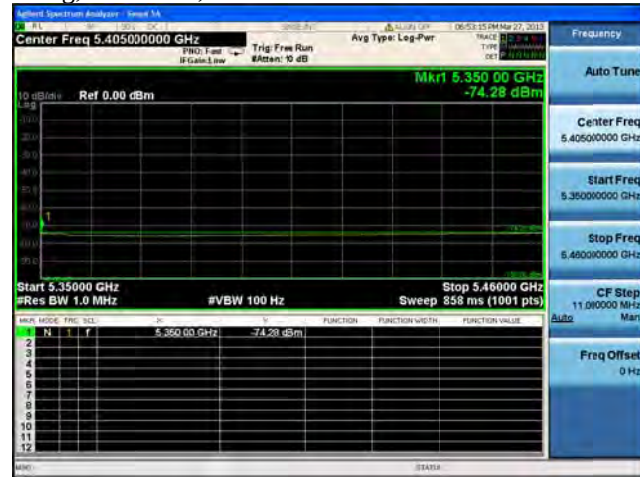
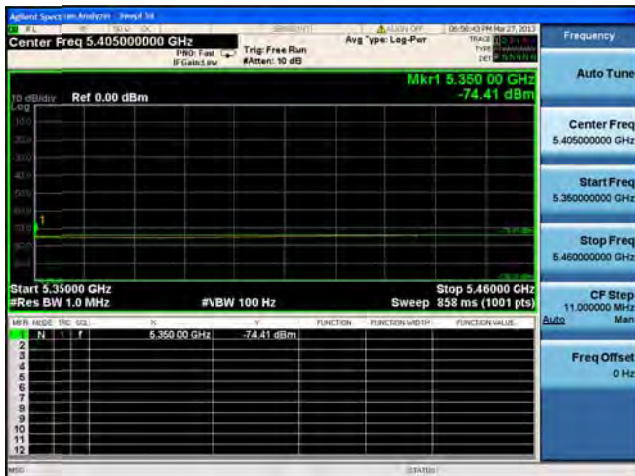
**Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

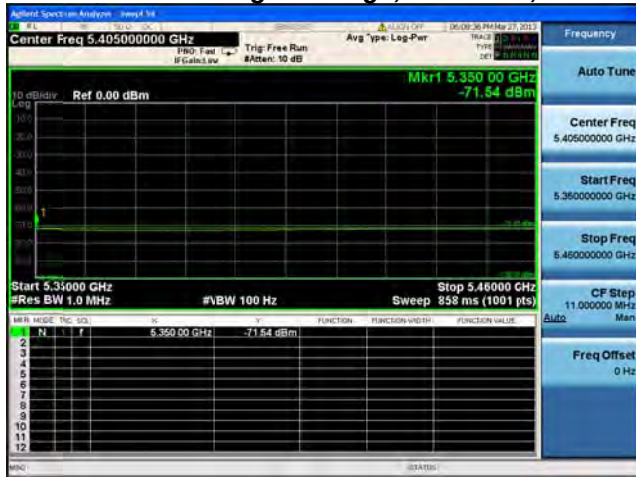
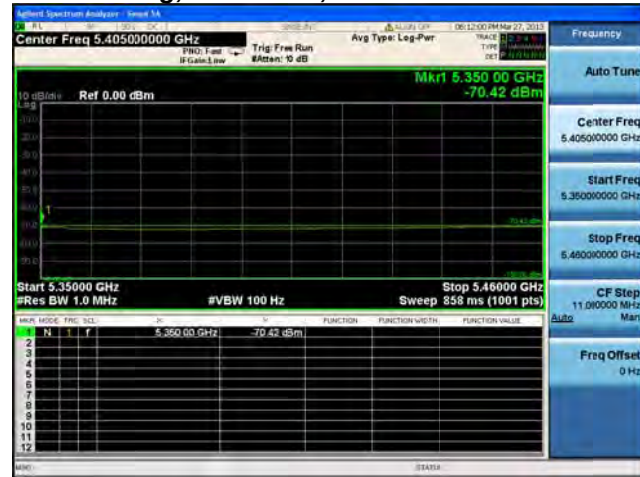
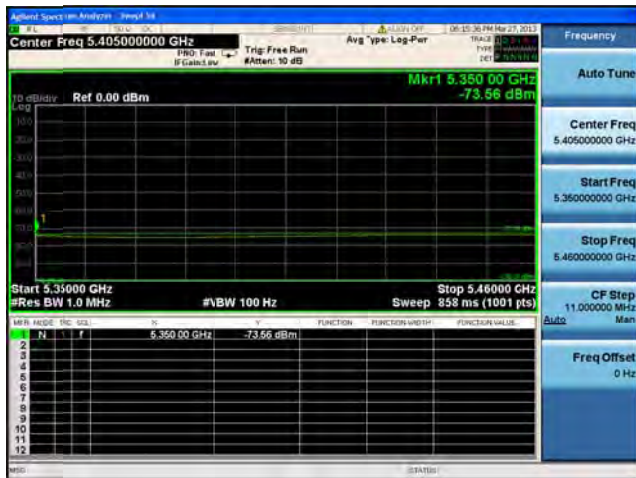
Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2

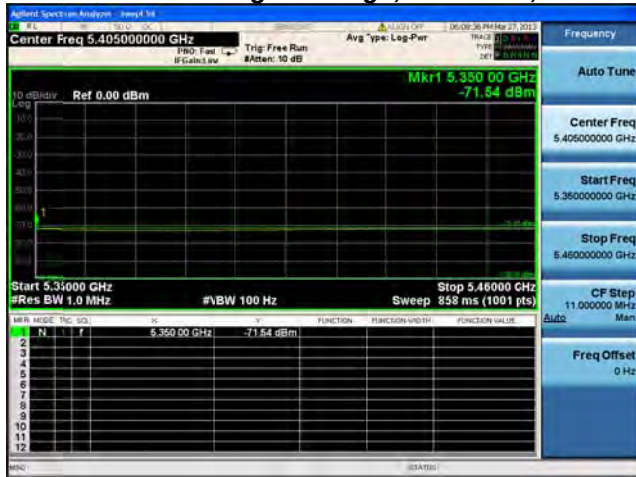
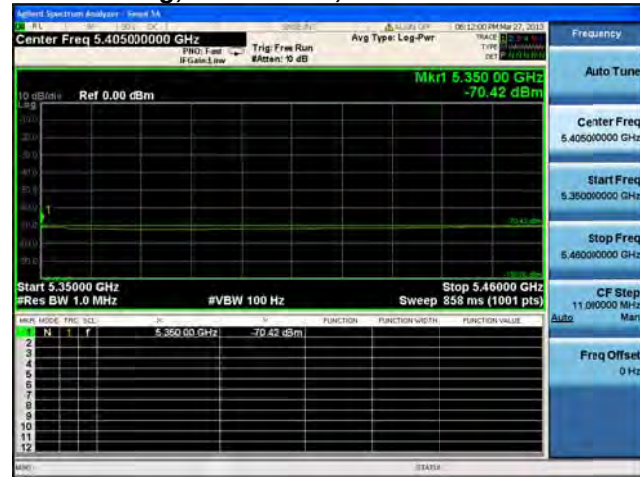
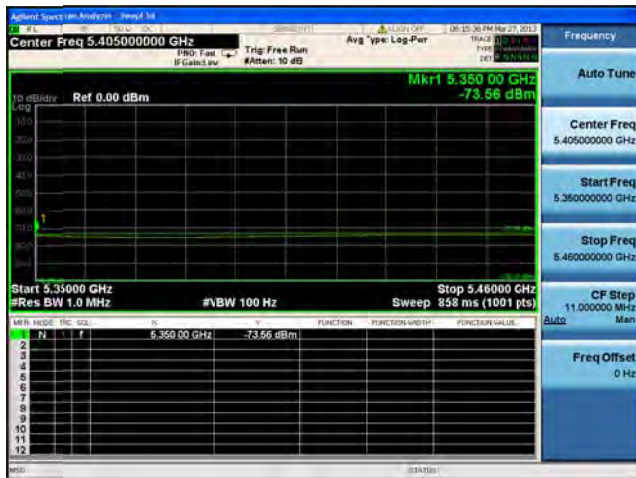
**Antenna A****Antenna B**

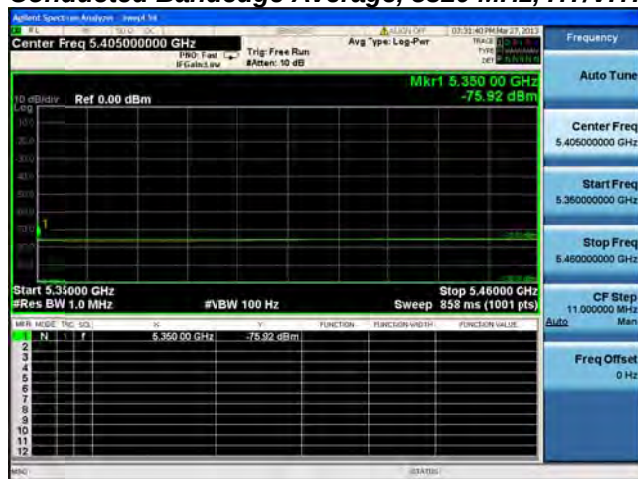
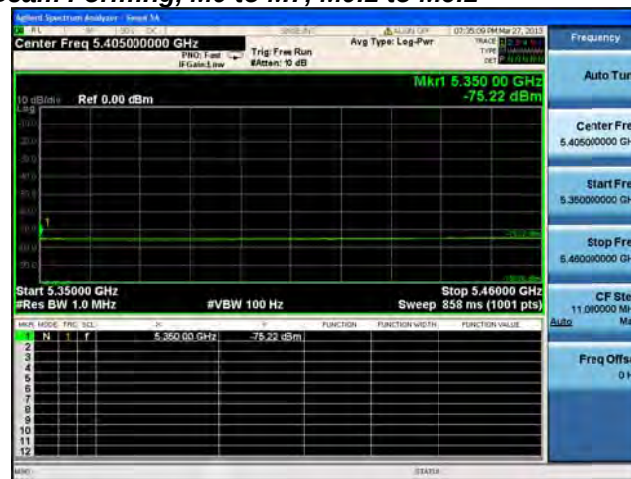
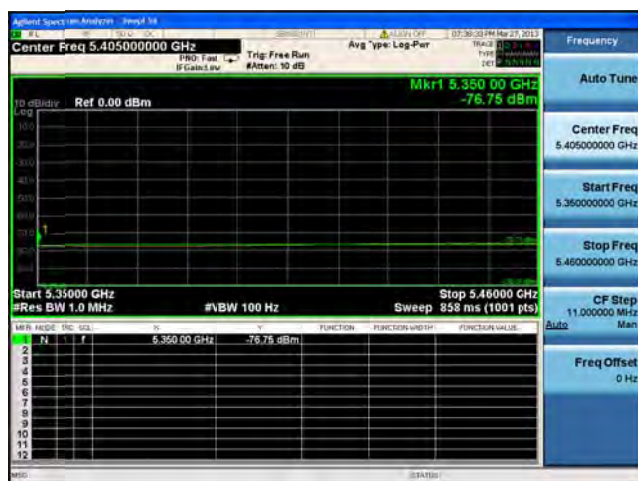
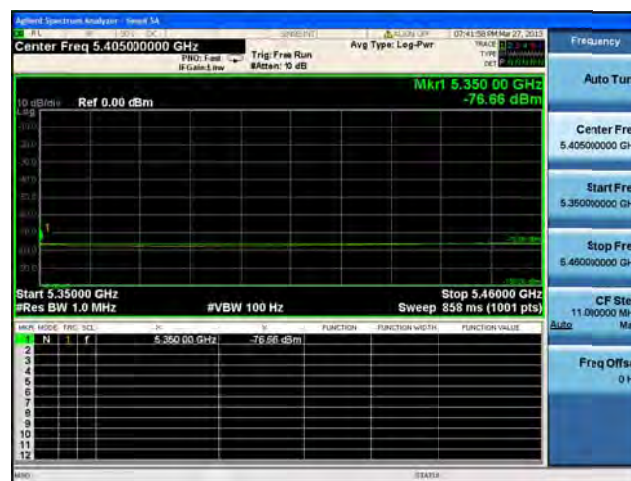


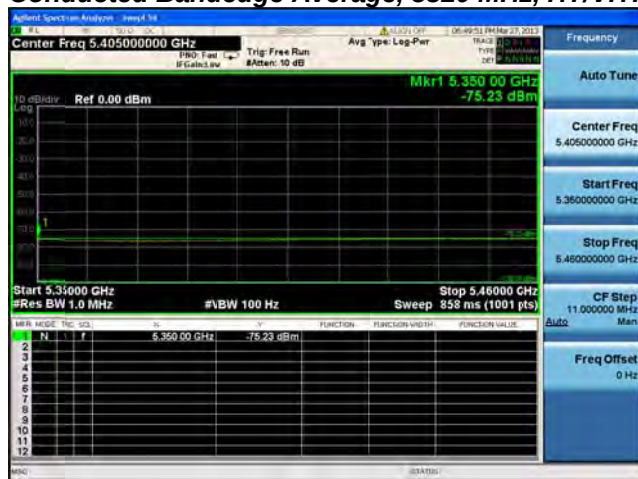
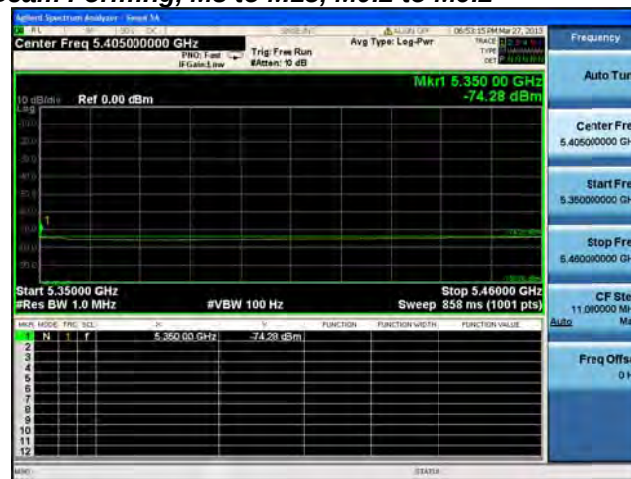
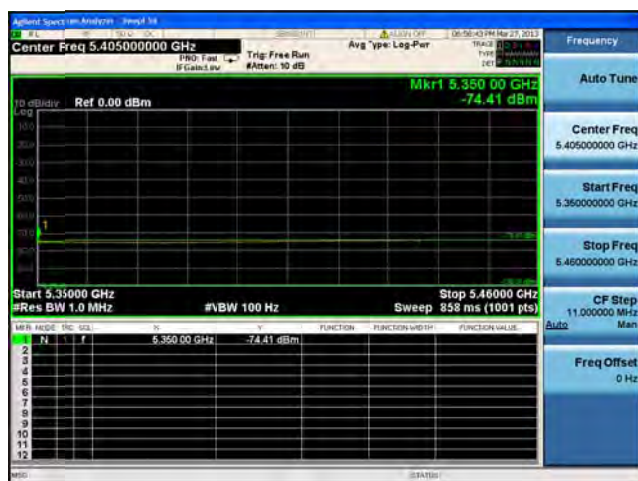
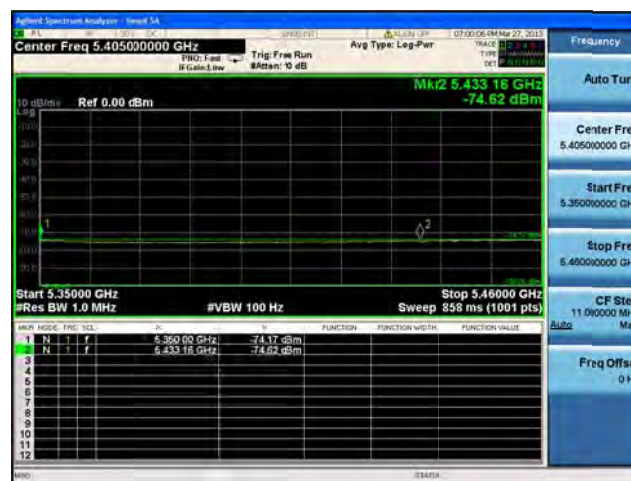
Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1

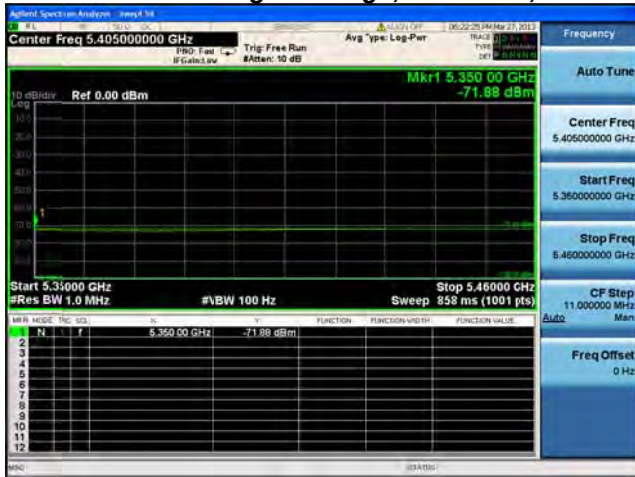
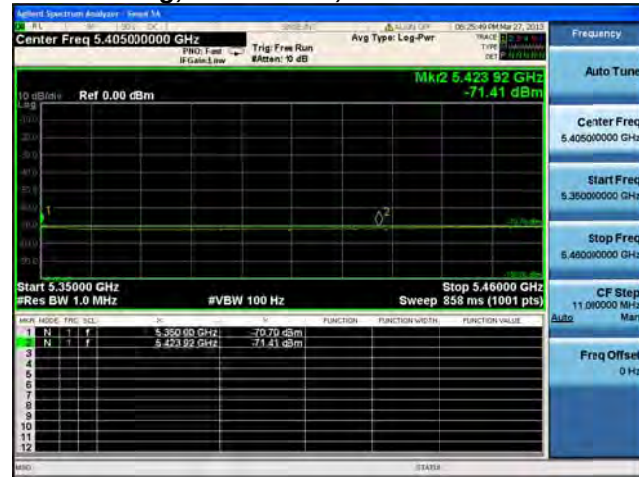
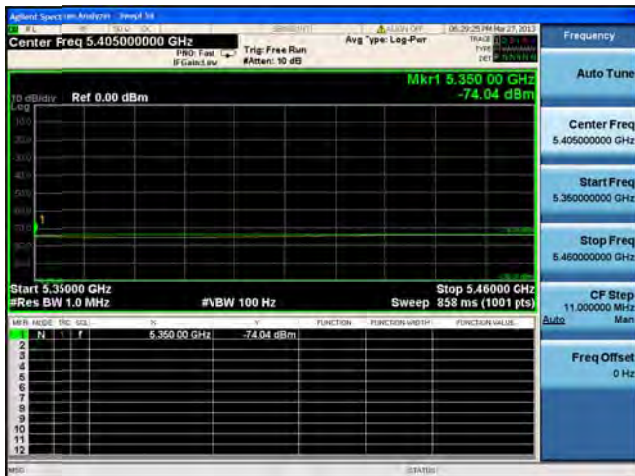
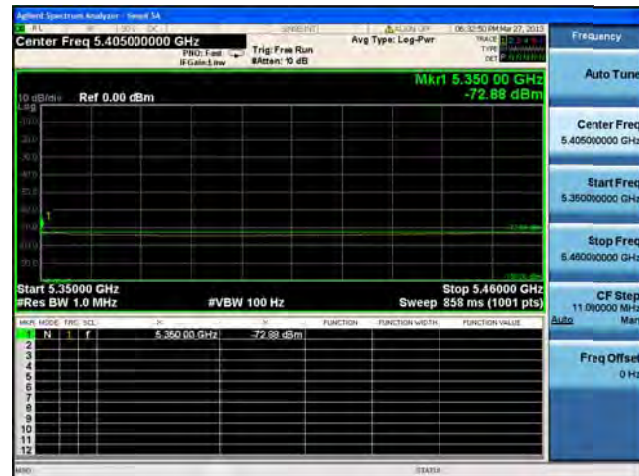
**Antenna A****Antenna B****Antenna C**

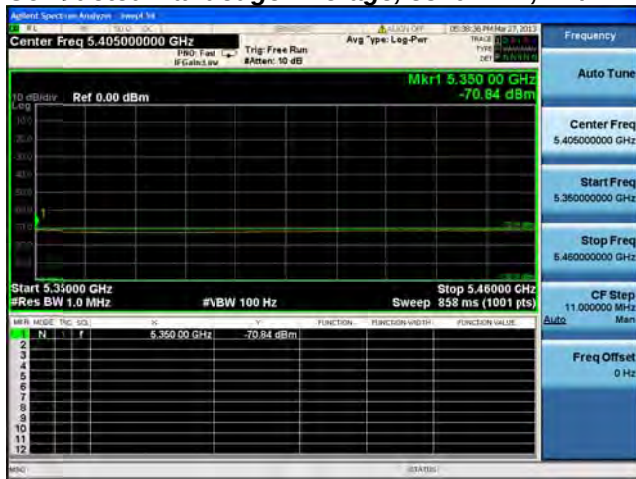
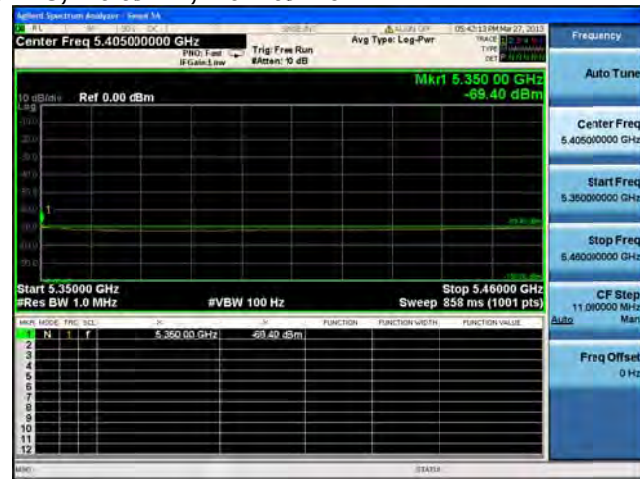
**Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

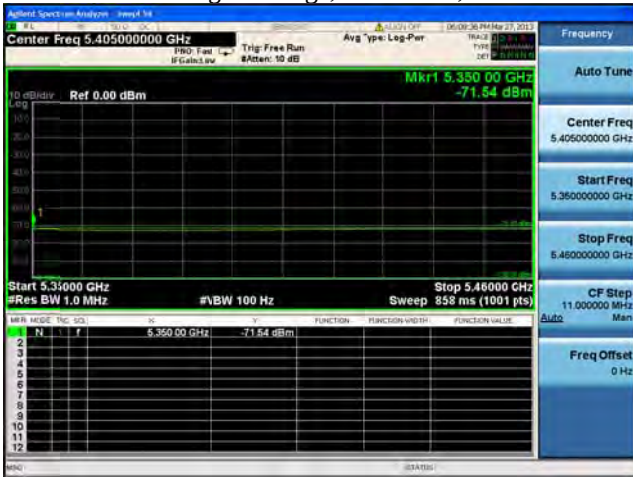
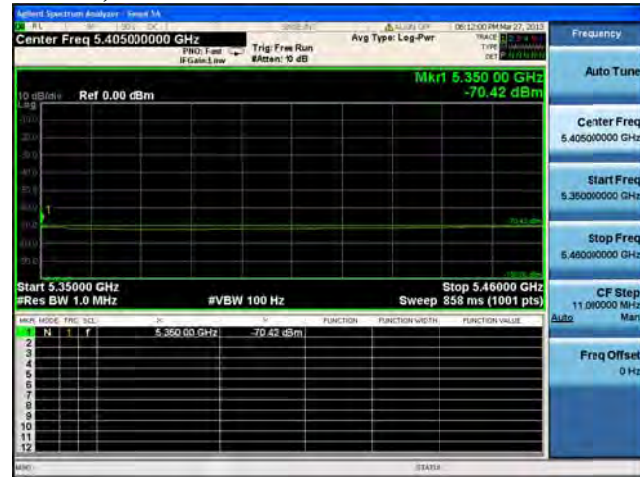
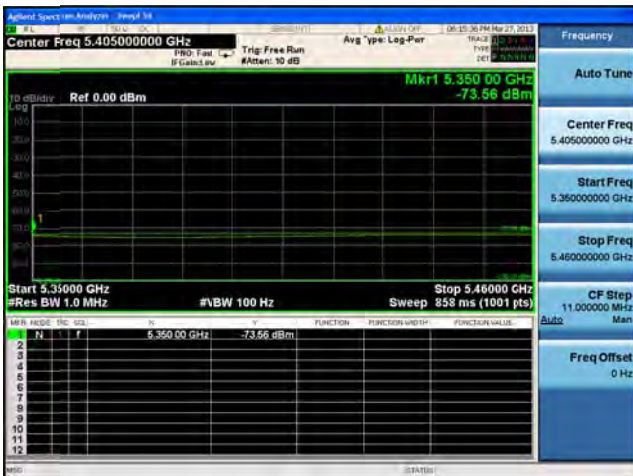
Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

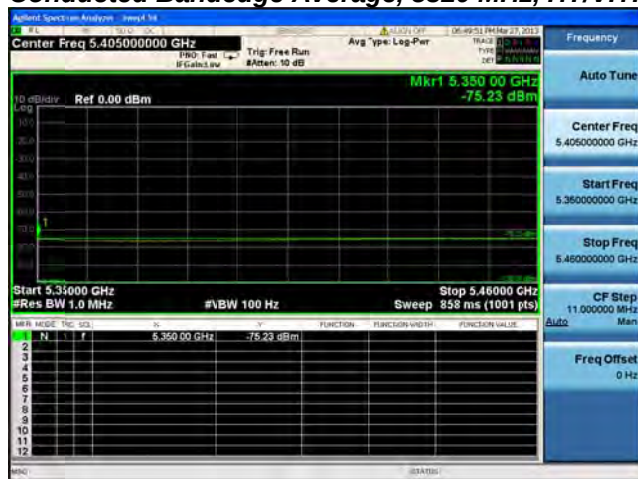
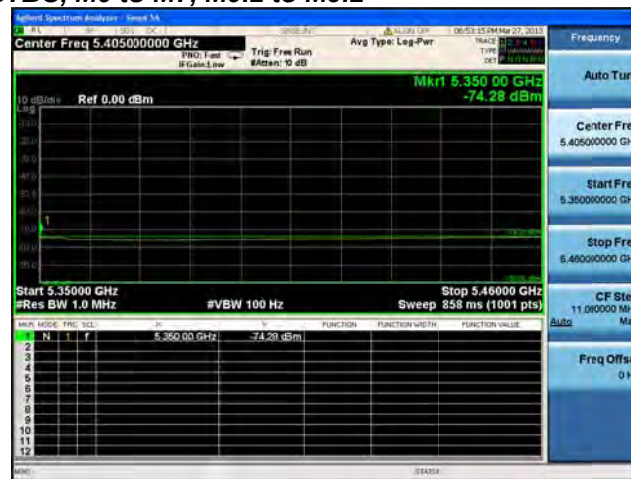
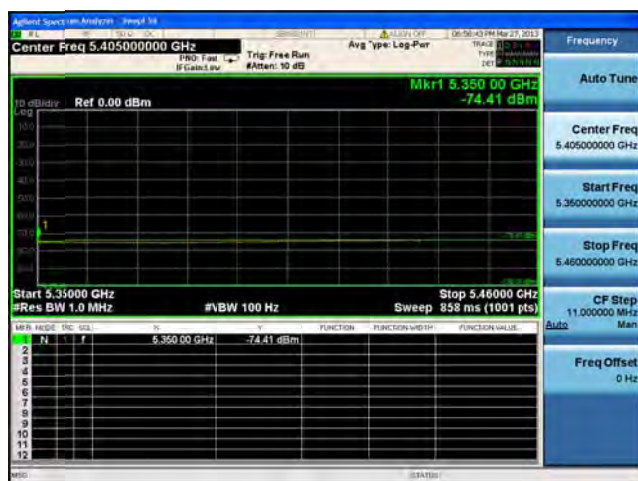
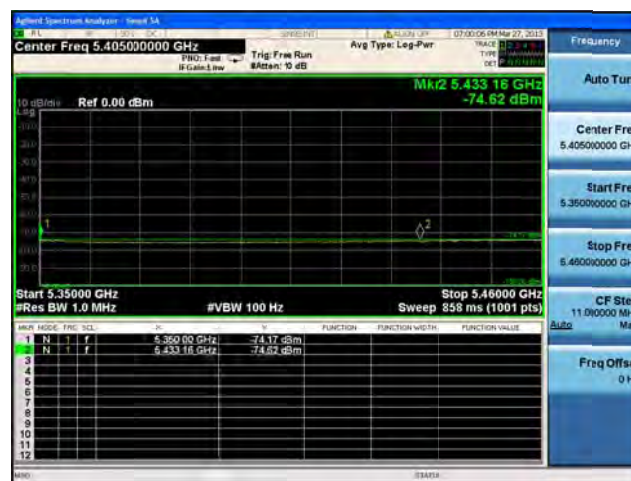
Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

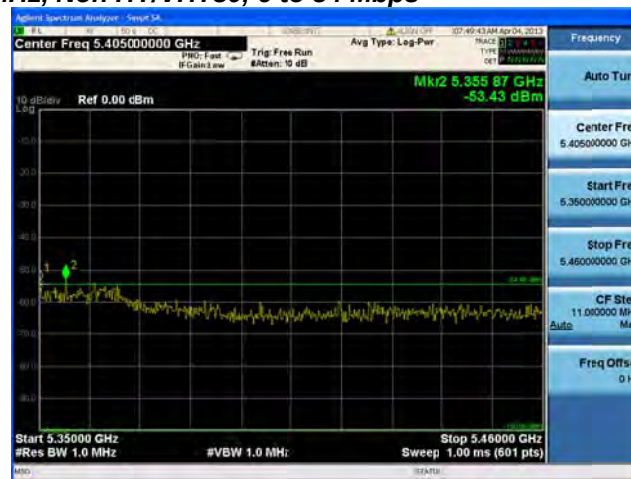


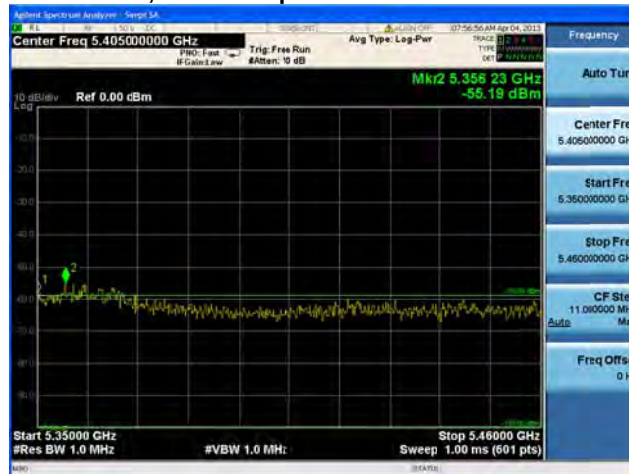
Conducted Bandedge Average, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1

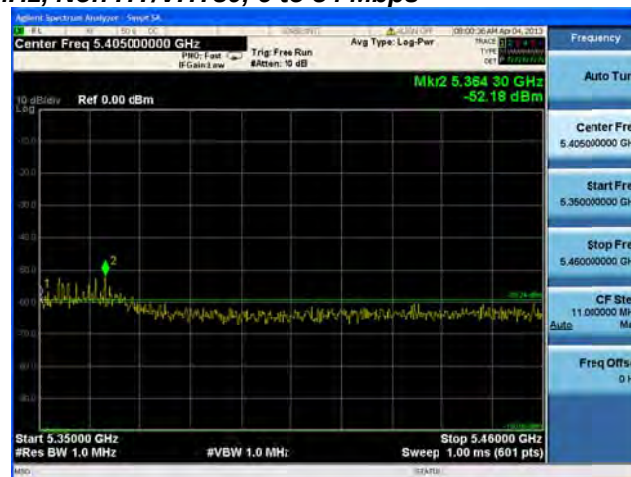
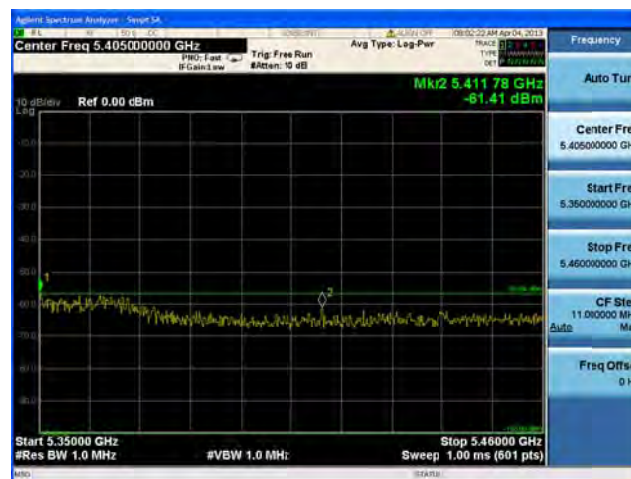
**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Average, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

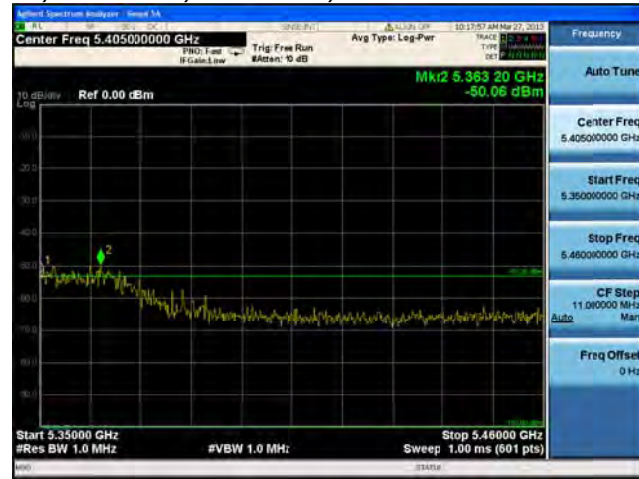
**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

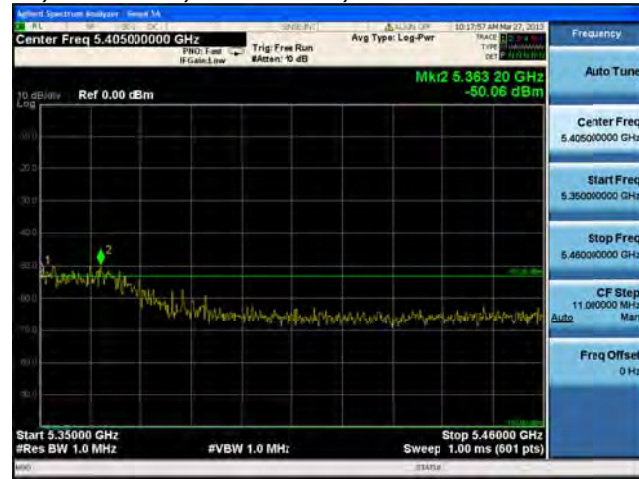
Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

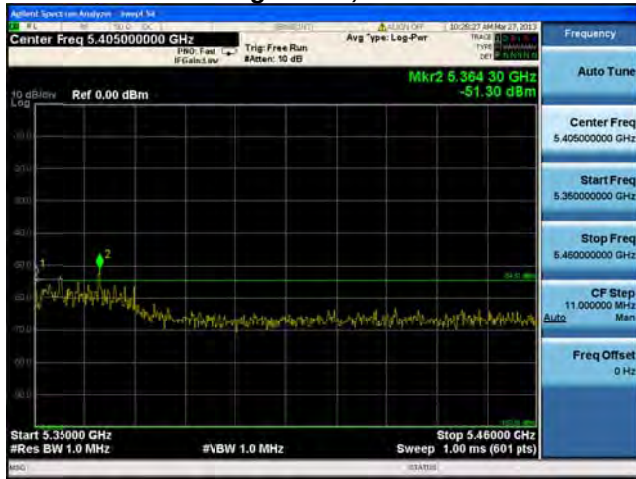
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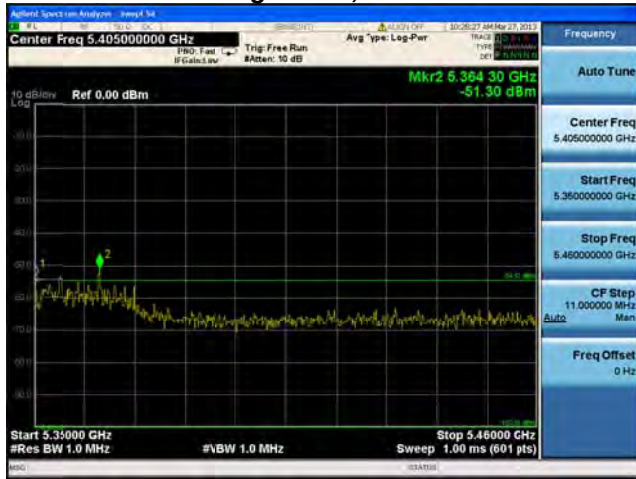
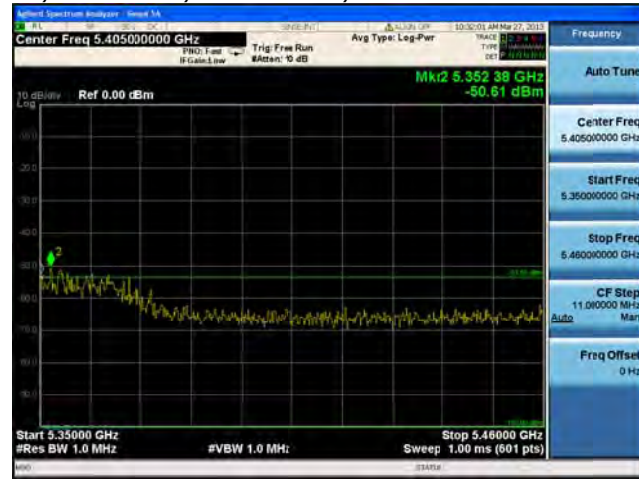
Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

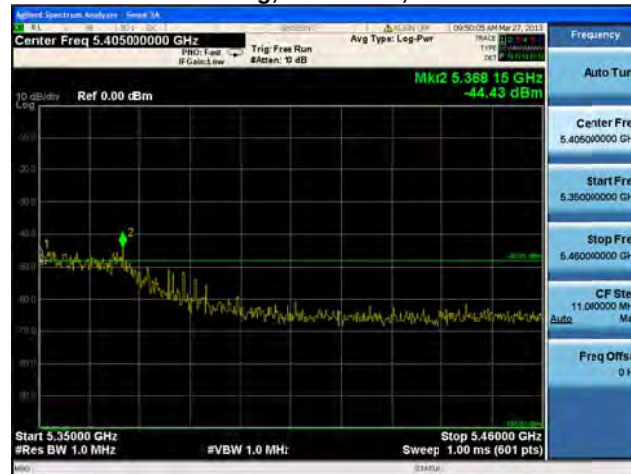
**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

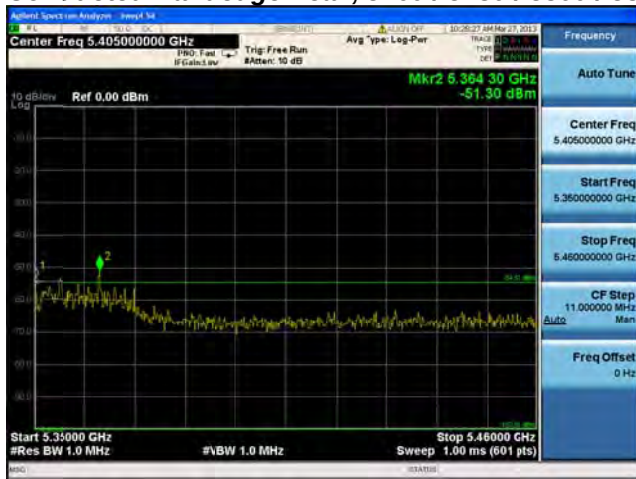
**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

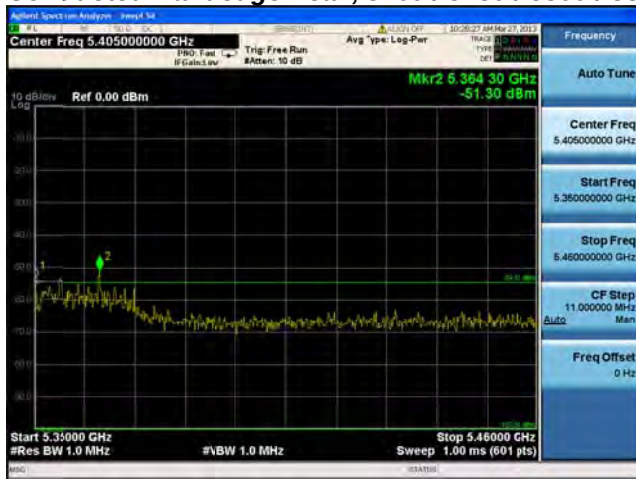
Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Agilent Spectrum Analyzer - Sample 3a

File Edit View Window Help

02:39:17 AM Apr 15, 2013

Center Freq 5.405000000 GHz

Trig: Free Run

Avg Type: Log-Pwr

Frequency

Auto Tune

Center Freq
5.405000000 GHz

Start Freq
5.360000000 GHz

Stop Freq
5.480000000 GHz

CF Step
11.000000 MHz

Auto Man

Freq Offset
0 Hz

10 dBm

Log

Ref 0.00 dBm

Mkr2 5.35000 GHz
-39.21 dBm

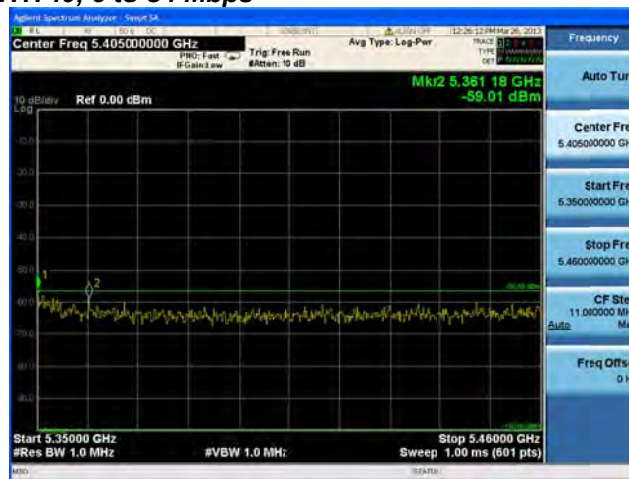
Start 5.35000 GHz

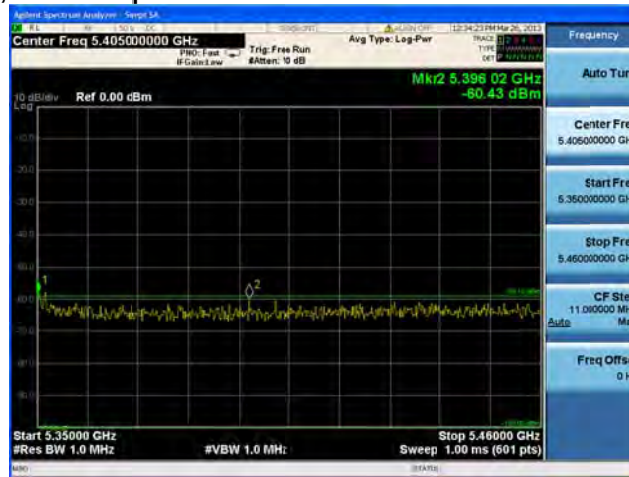
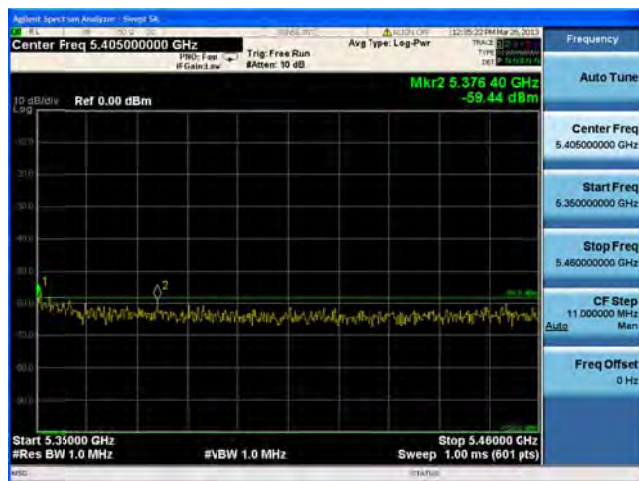
Stop 5.46000 GHz

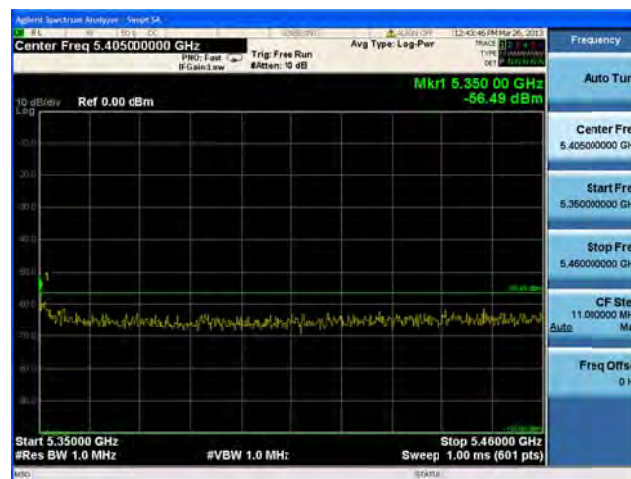
Sweep 1.00 ms (601 pts)

#RBW 1.0 MHz

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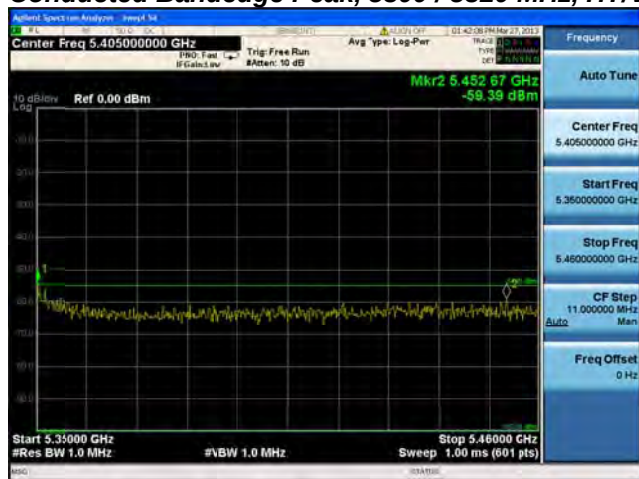
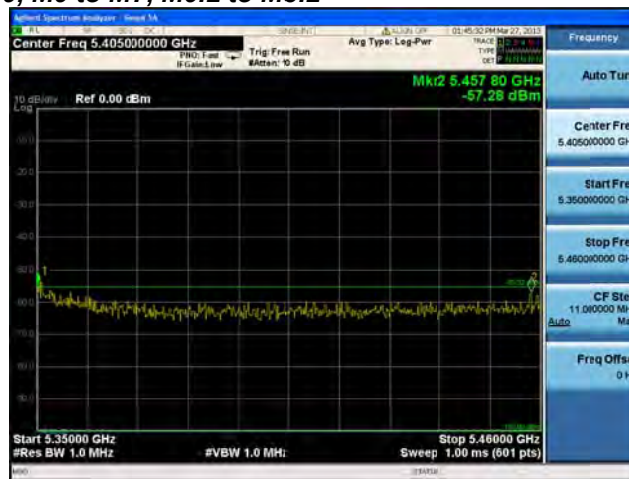
Conducted Bandedge Peak, 5300 / 5320 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B**

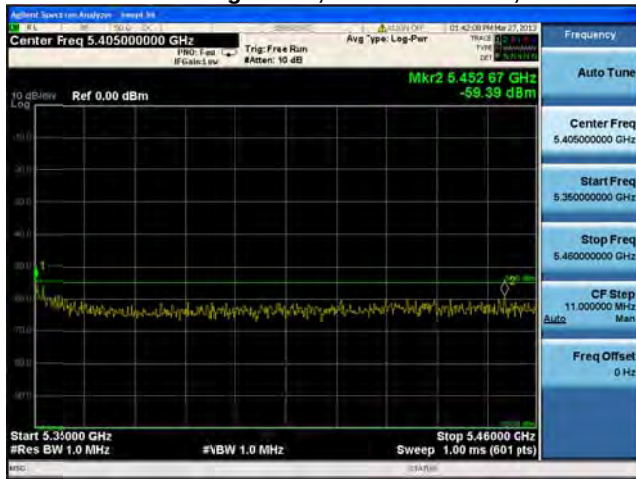
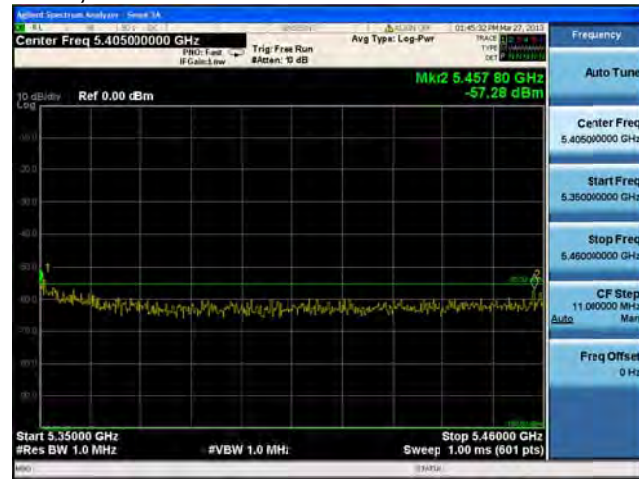
Conducted Bandedge Peak, 5300 / 5320 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

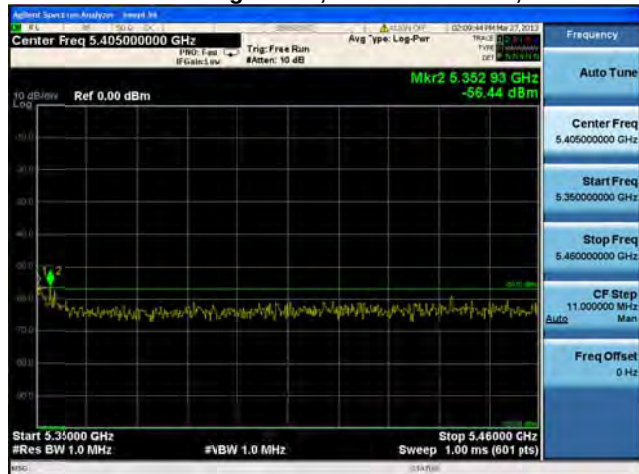
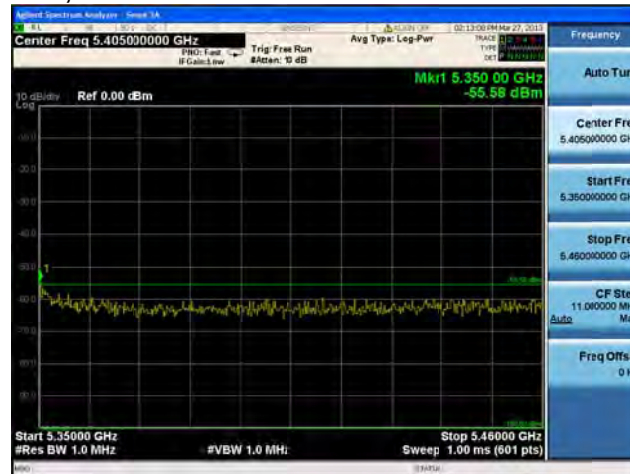
Conducted Bandedge Peak, 5300 / 5320 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

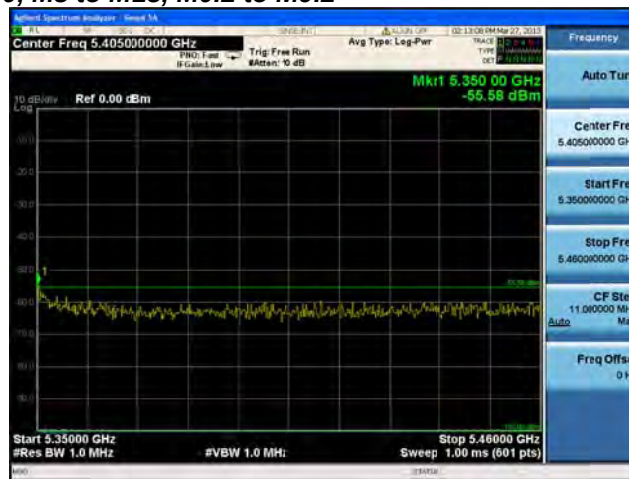
Center Freq 5.40500000 GHz
 F80: Fast IF Control: Off
 Trig: Free Run #Atten: 10 dB
 Avg Type: Log-Pwr
 Mkr2 5.407 02 GHz -55.29 dBm
 Start 5.35000 GHz #Res BW 1.0 MHz
 Stop 5.46000 GHz Sweep 1.00 ms (601 pts)

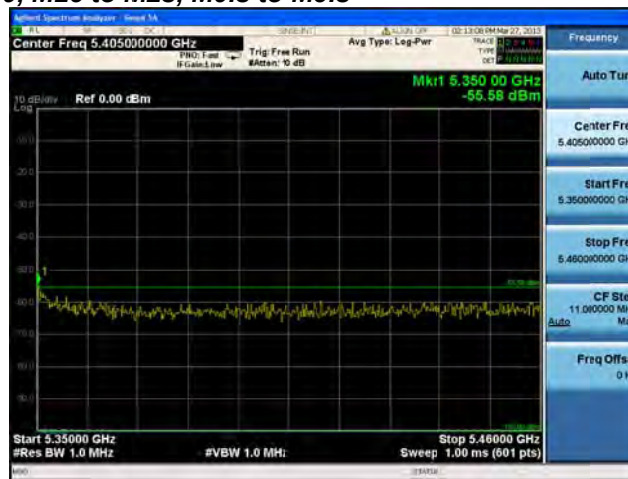
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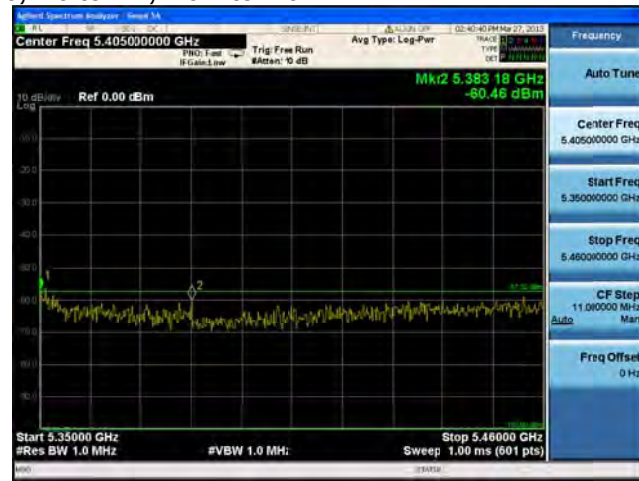
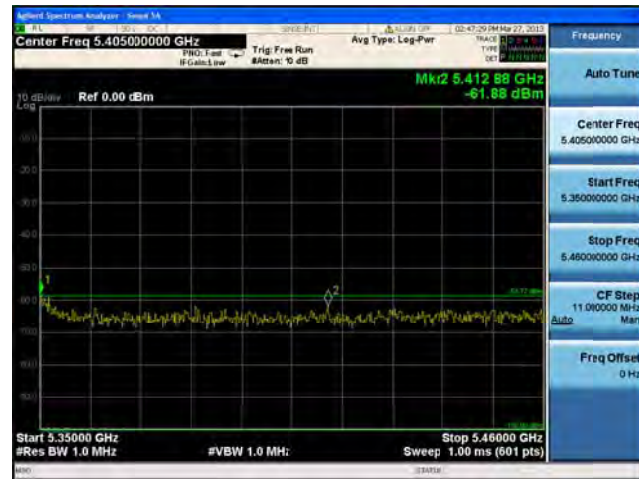
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

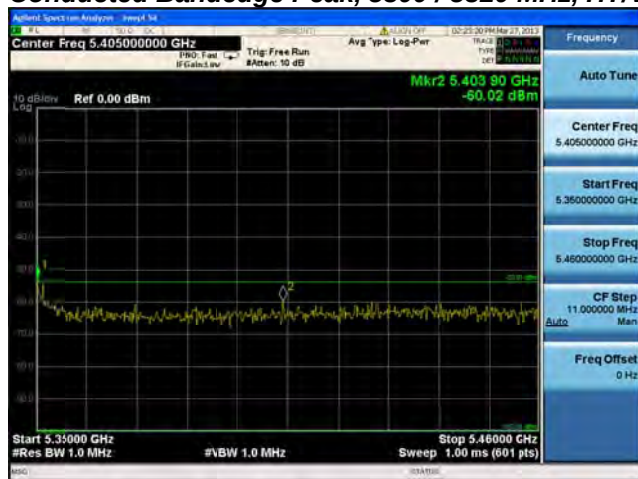
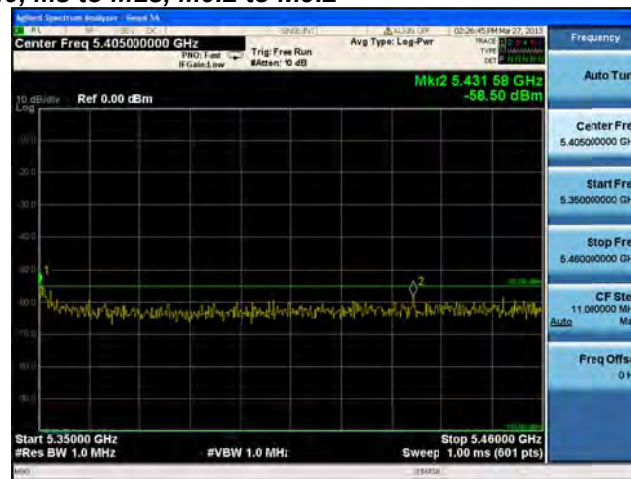
**Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

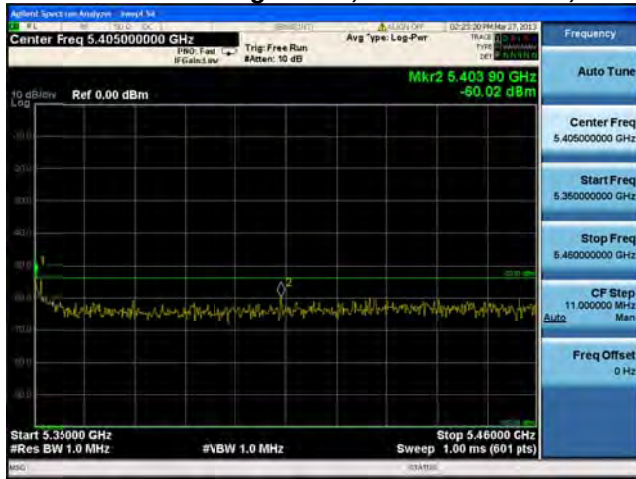
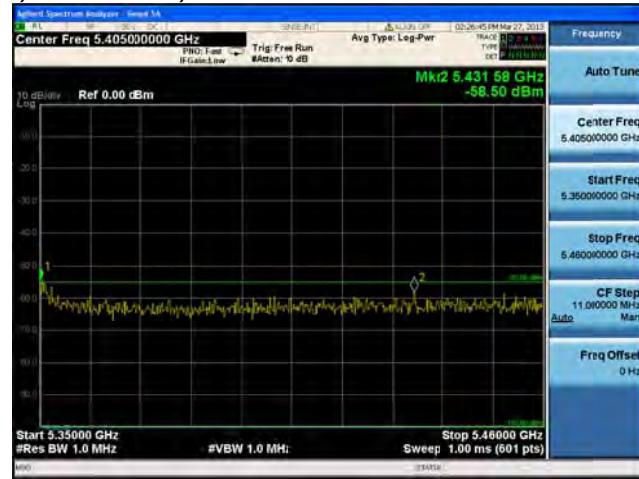
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

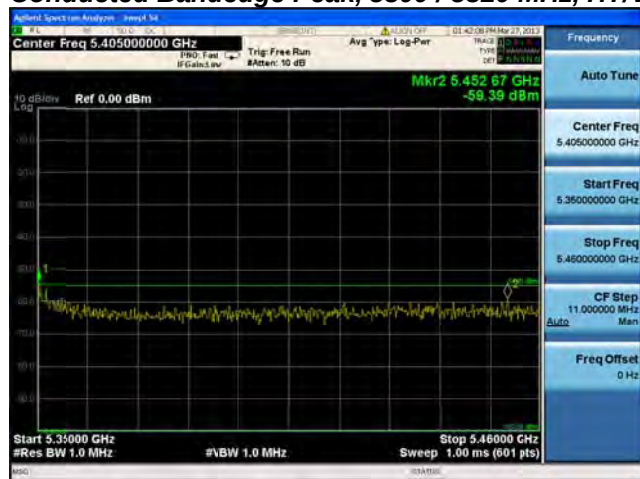
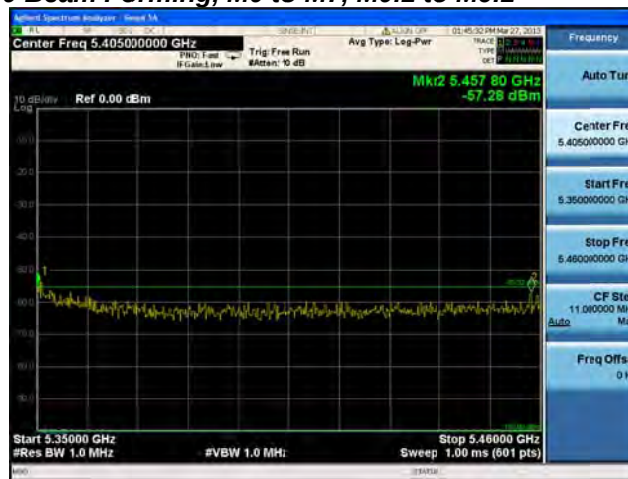
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

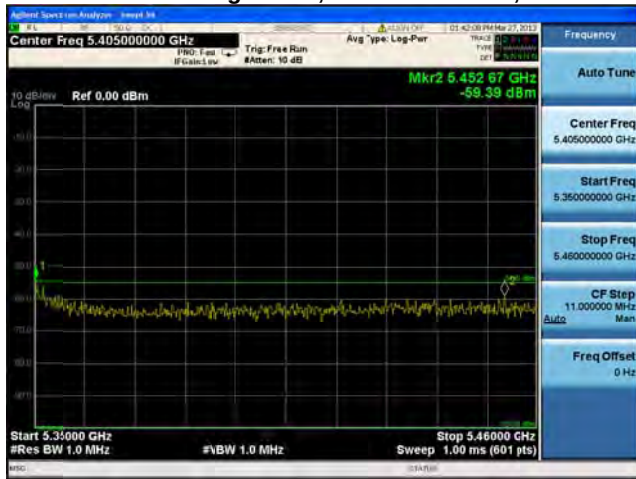
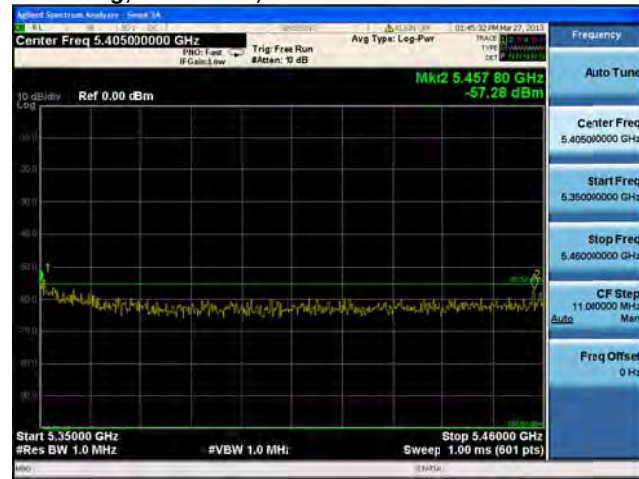
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

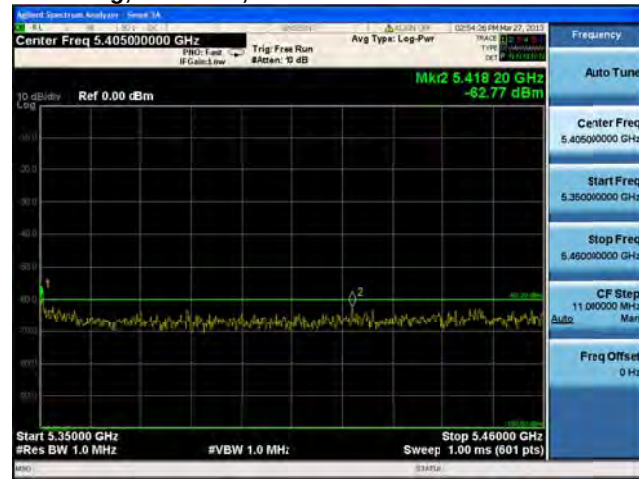
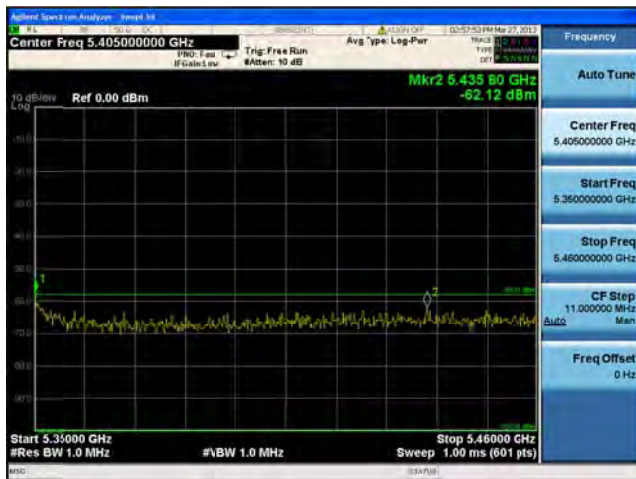
**Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

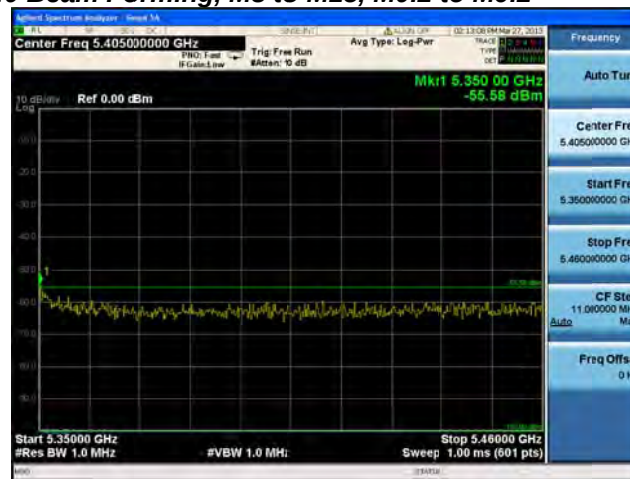
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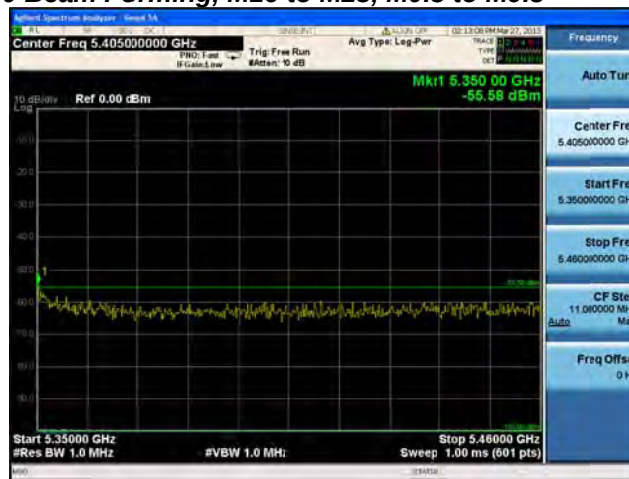
**Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

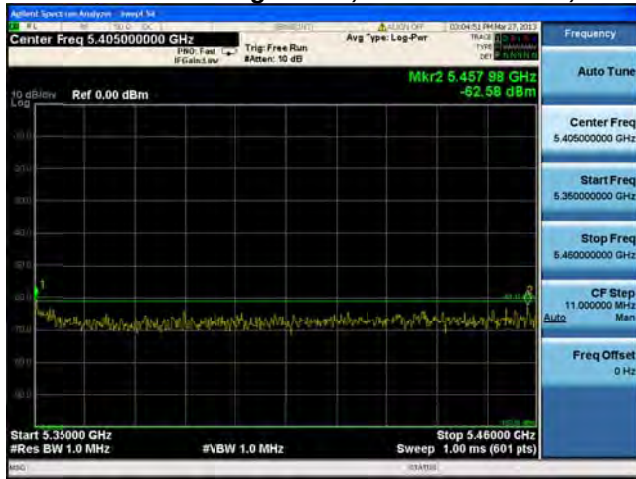
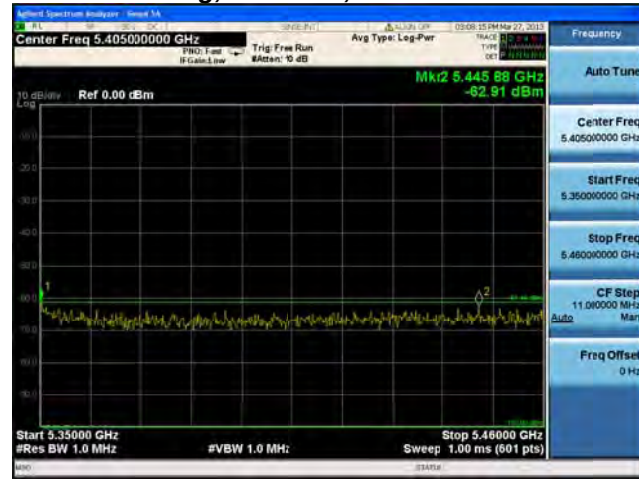
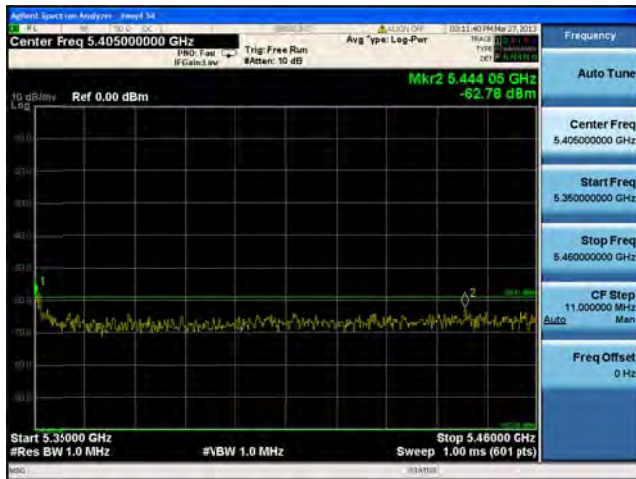
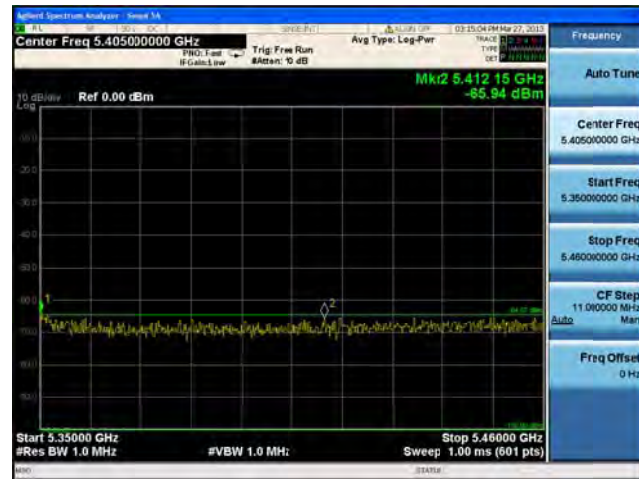
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

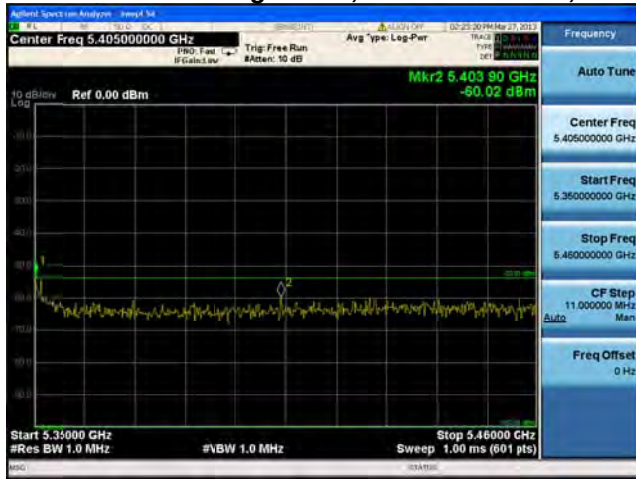
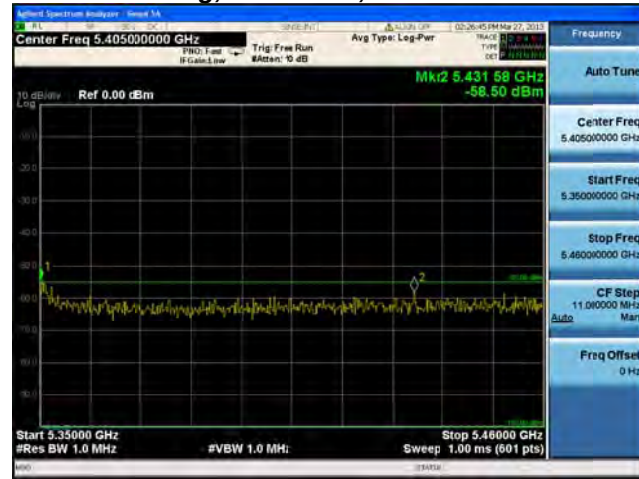
**Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

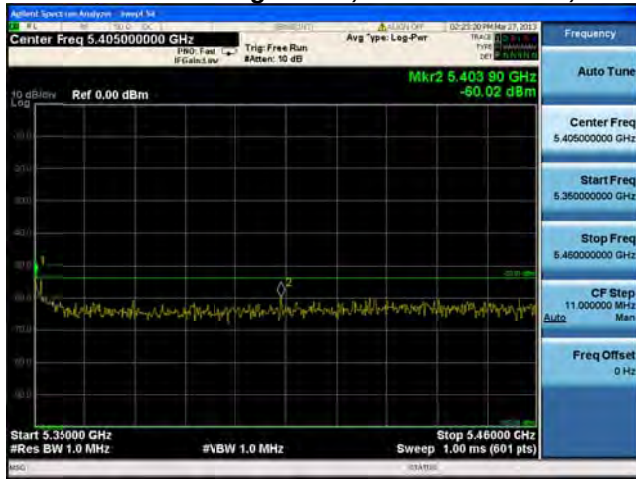
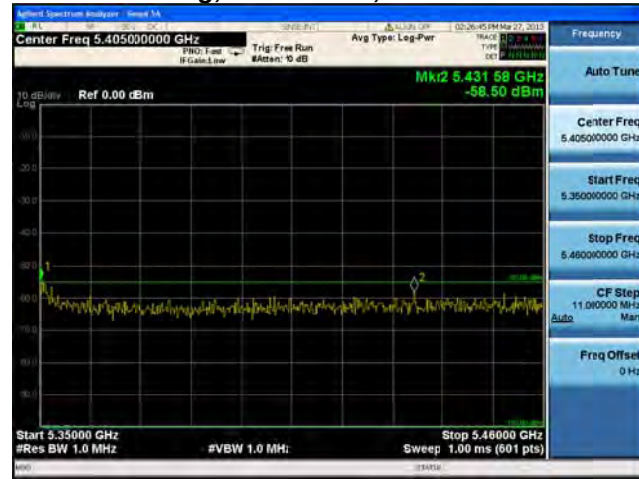
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

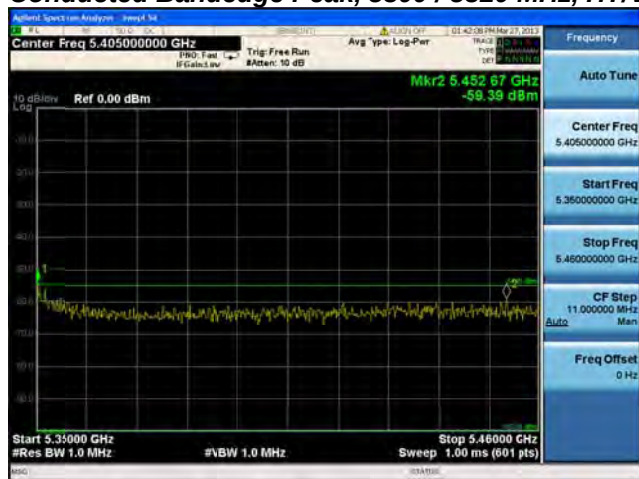
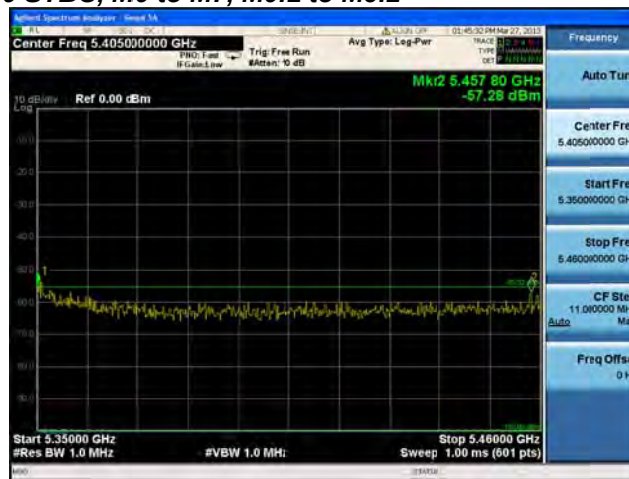
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

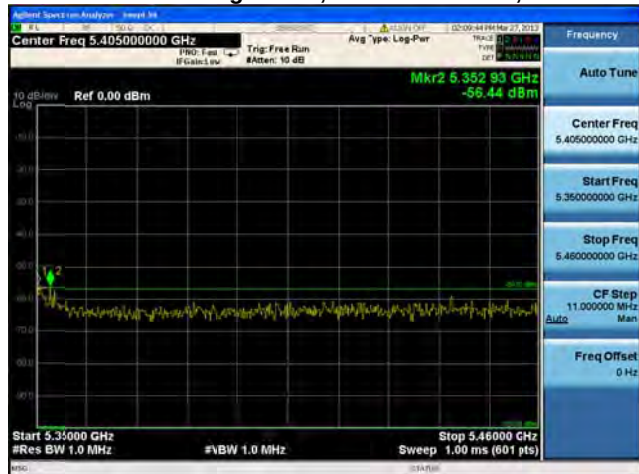
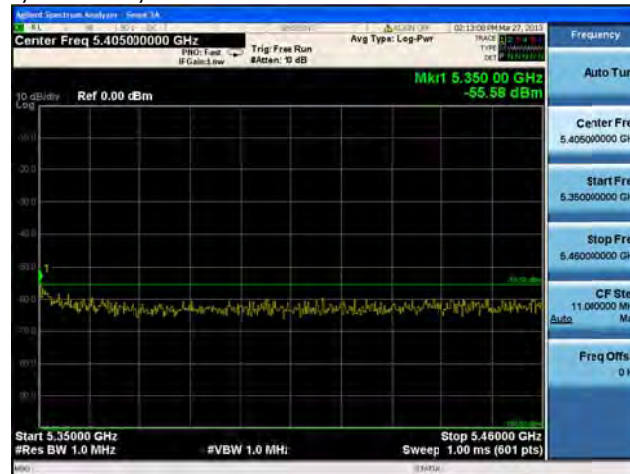
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

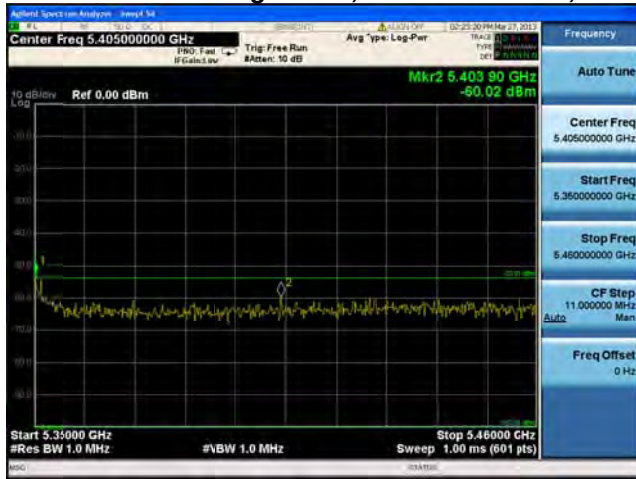
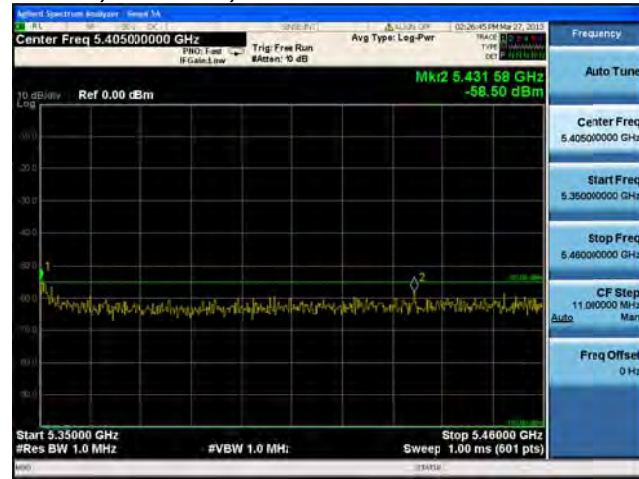
**Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

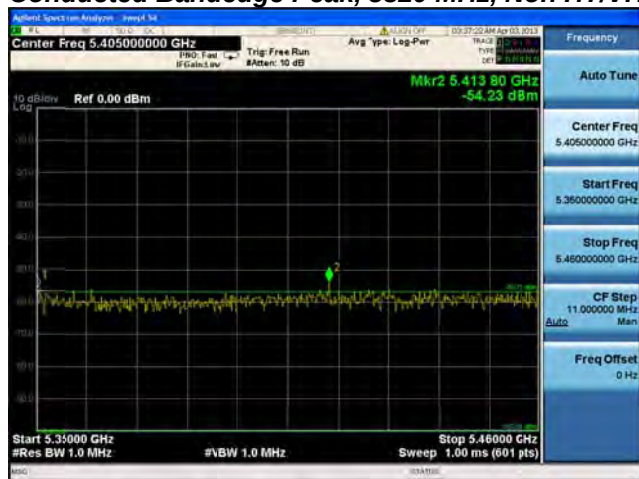
**Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

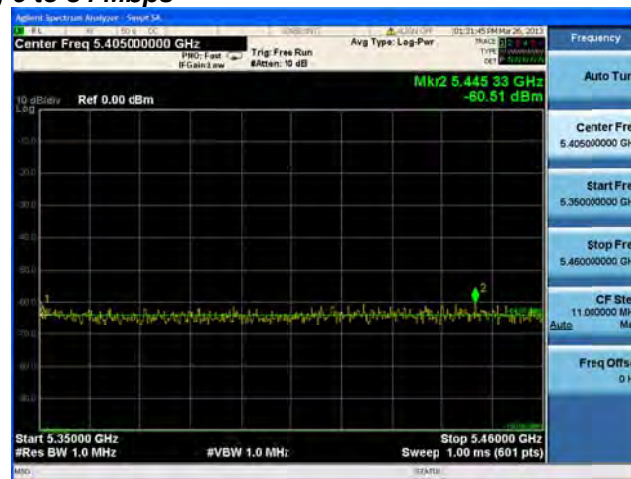
**Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

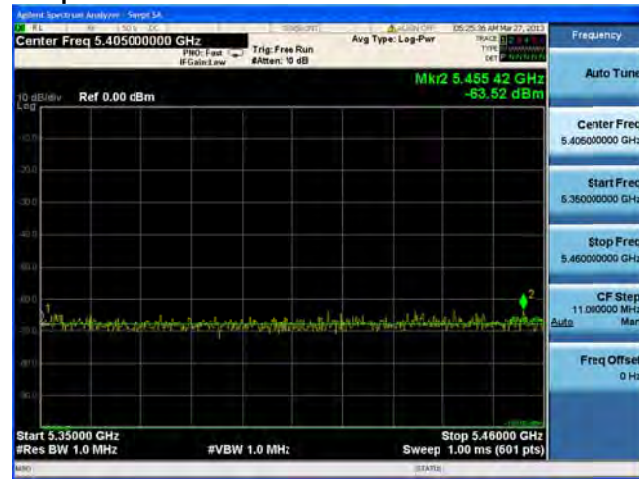
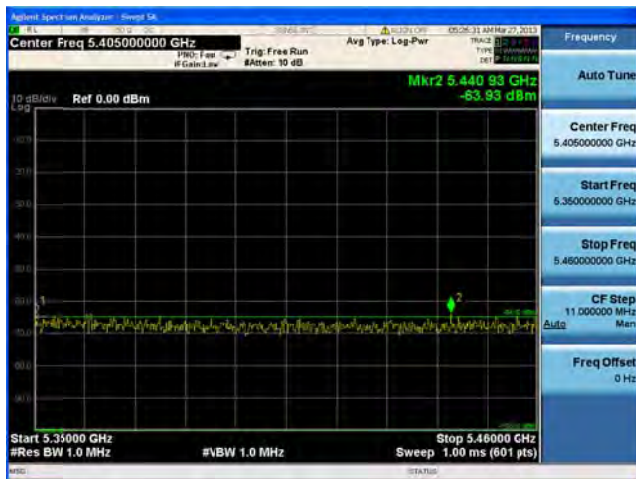
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

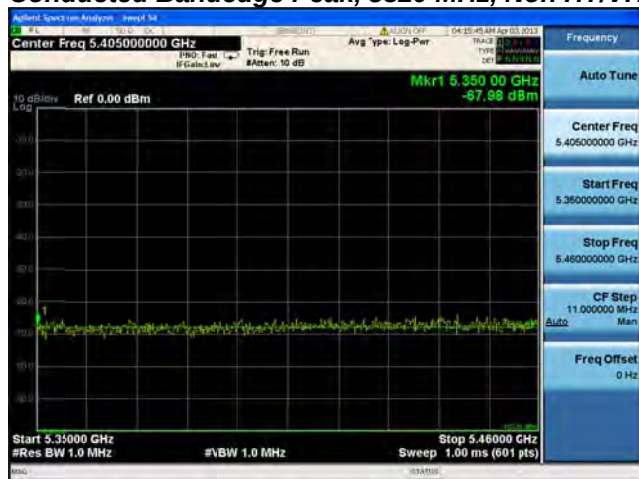
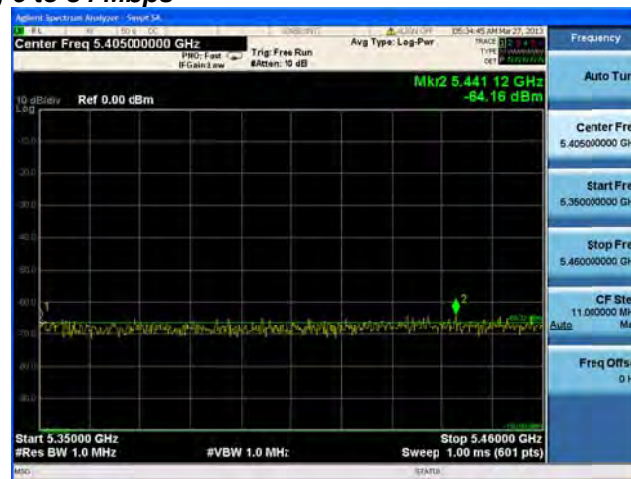
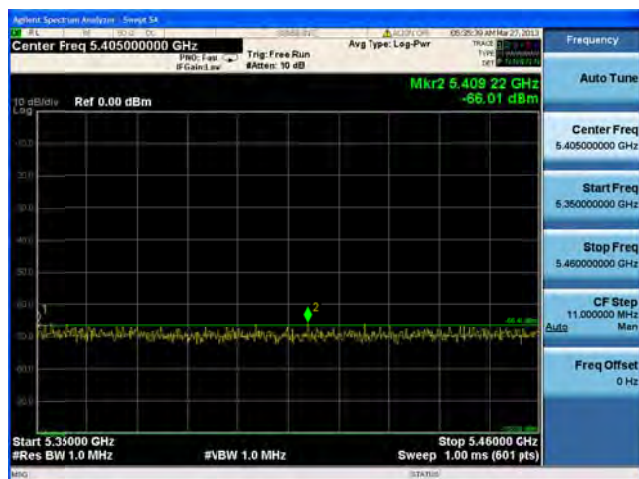
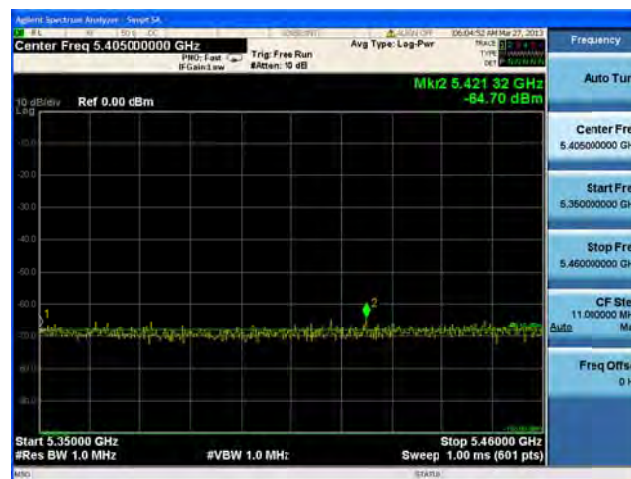
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

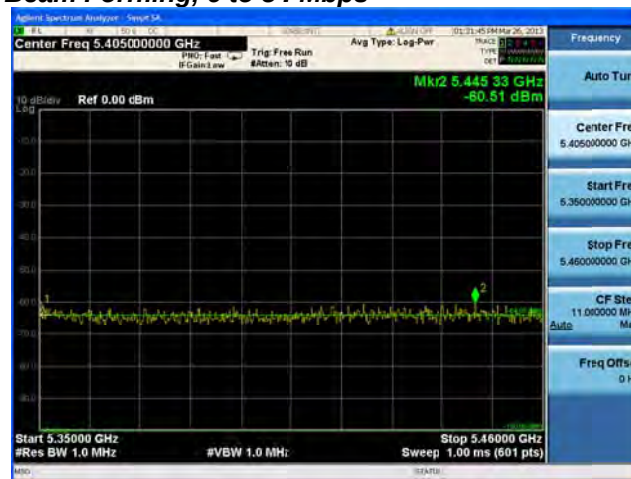
**Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

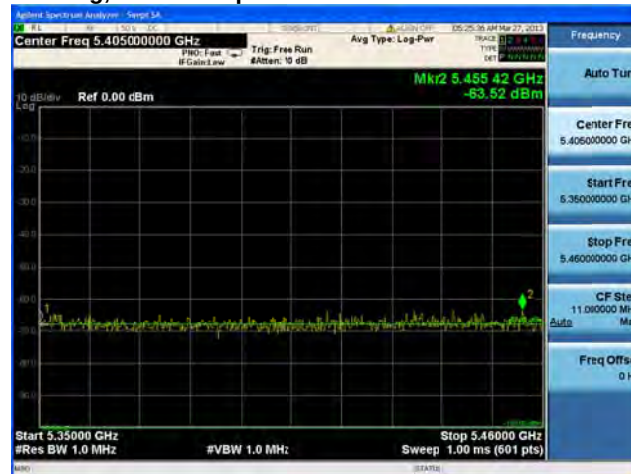
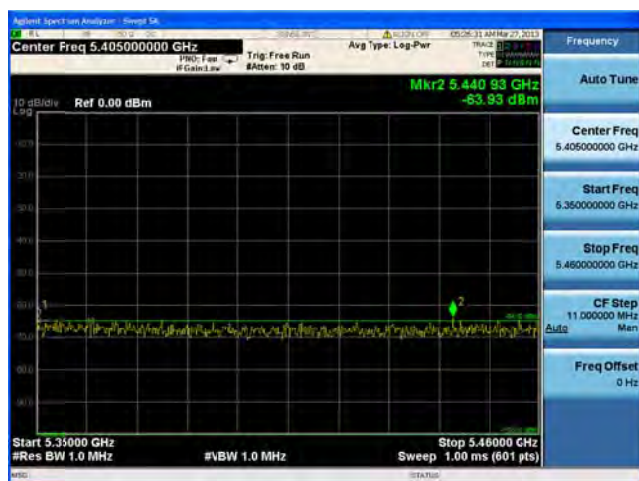
Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A**

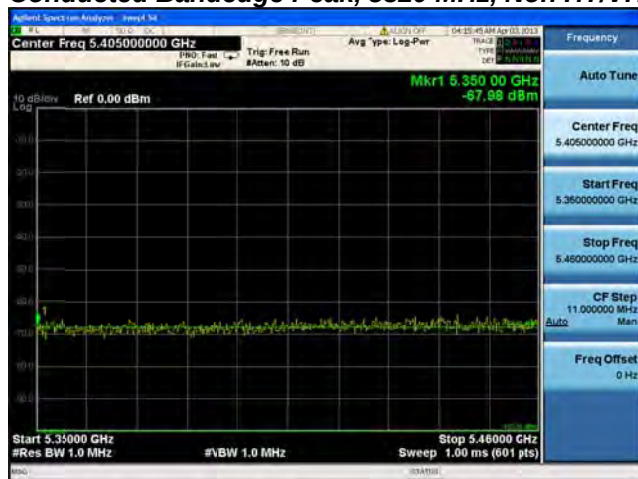
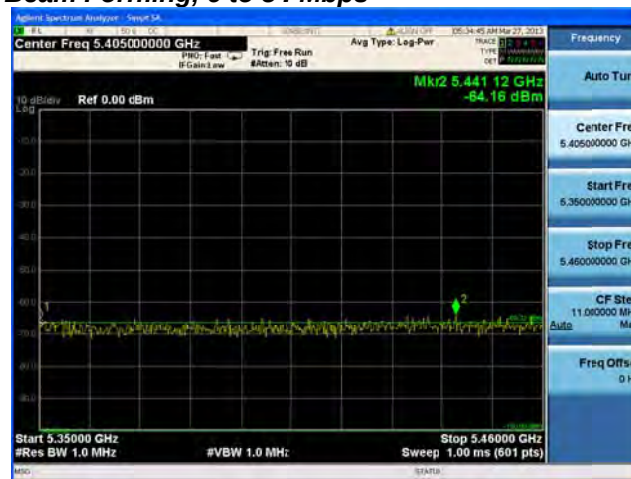
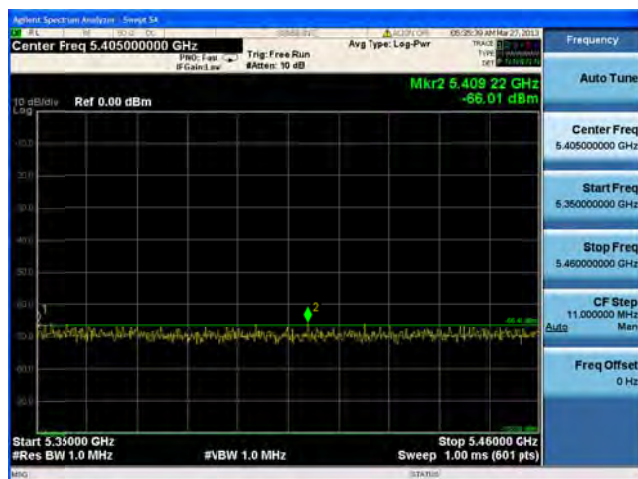
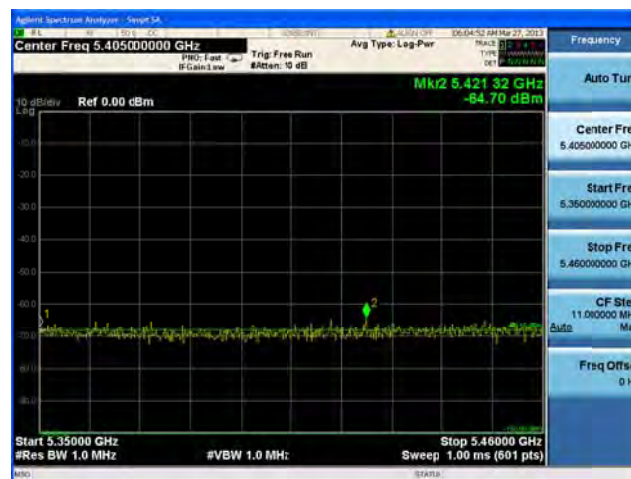
Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B**

**Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

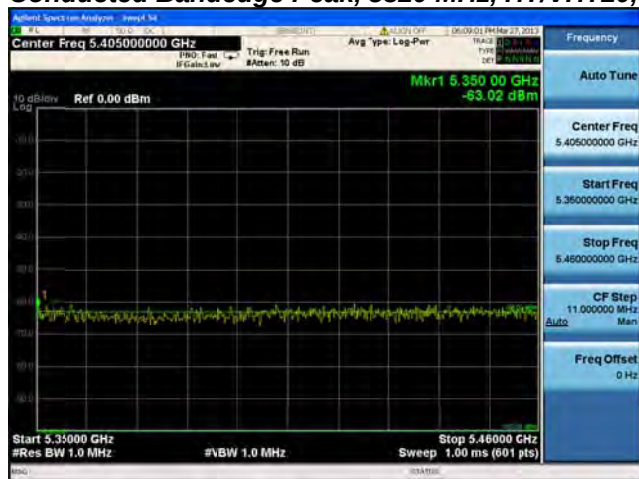
Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

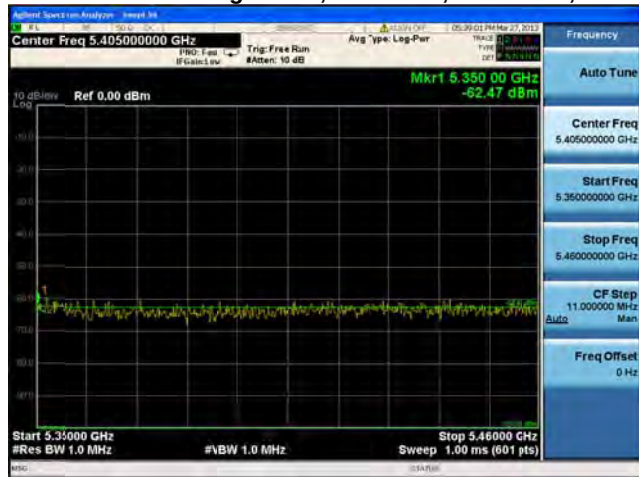
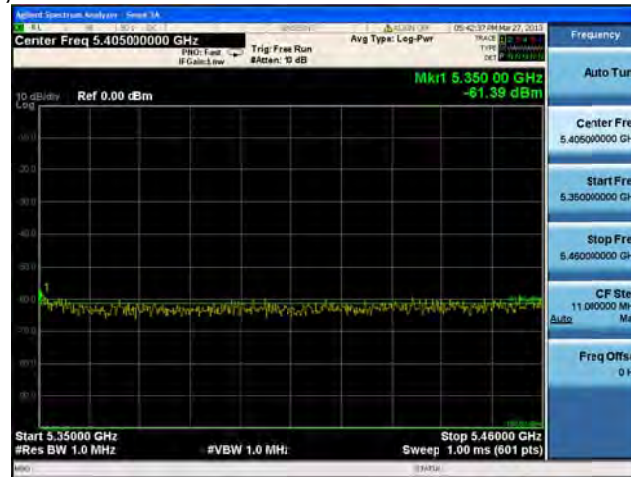
Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

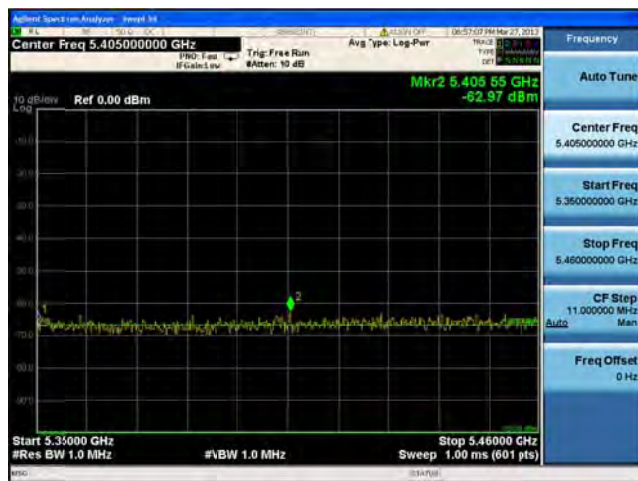
Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

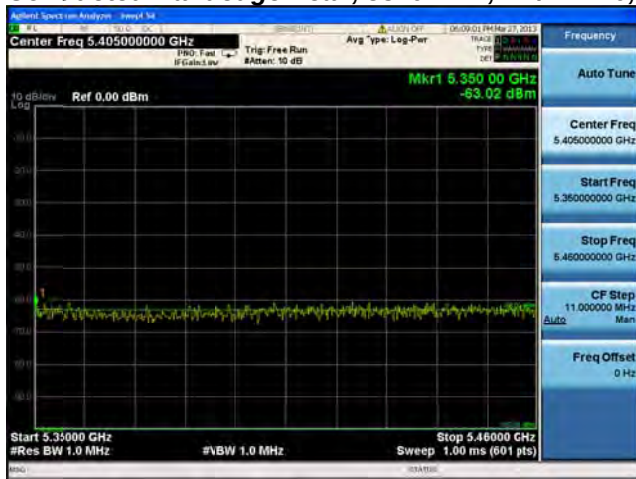
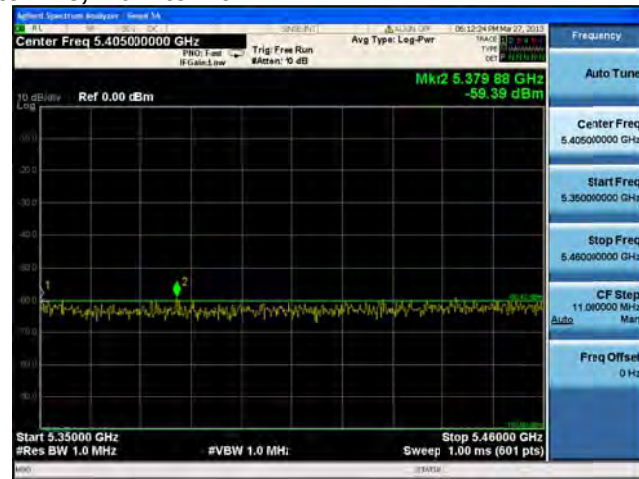
Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

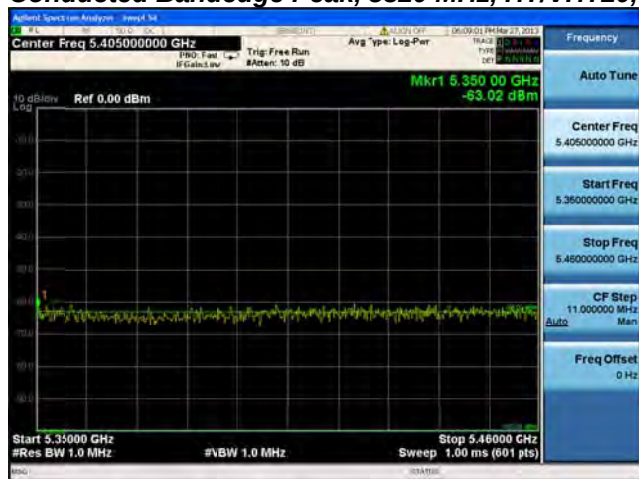
Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A**

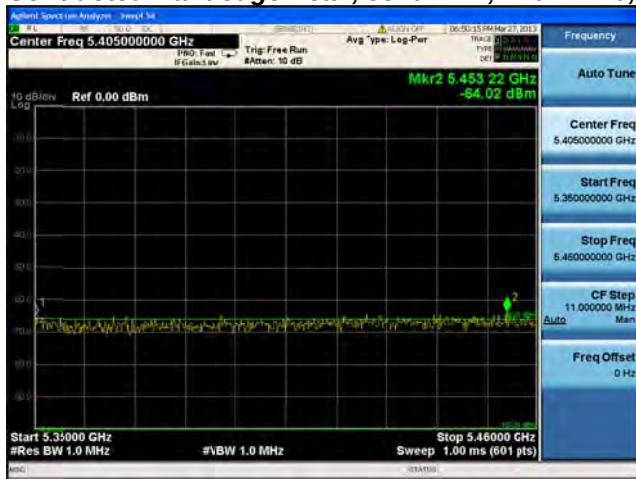
Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

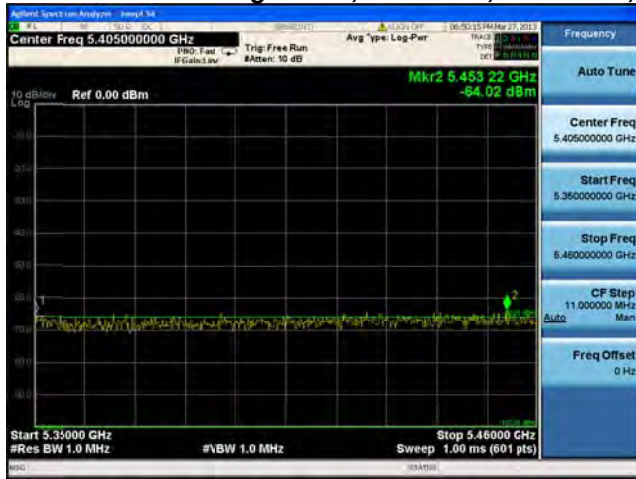
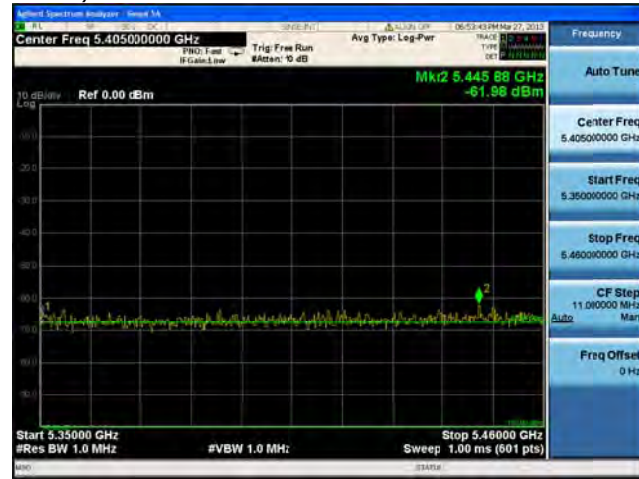
Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B**

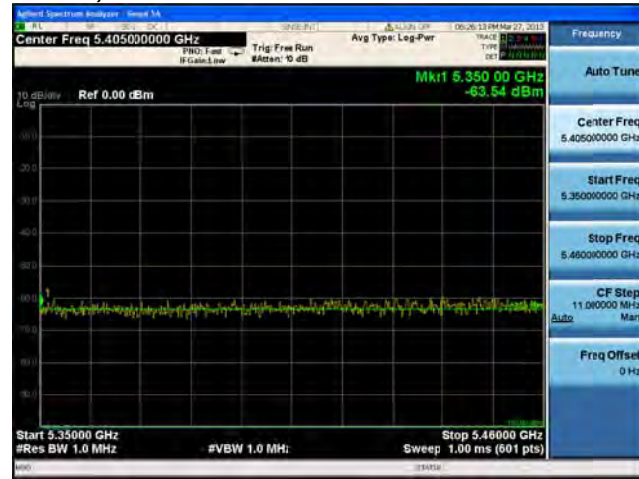
Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

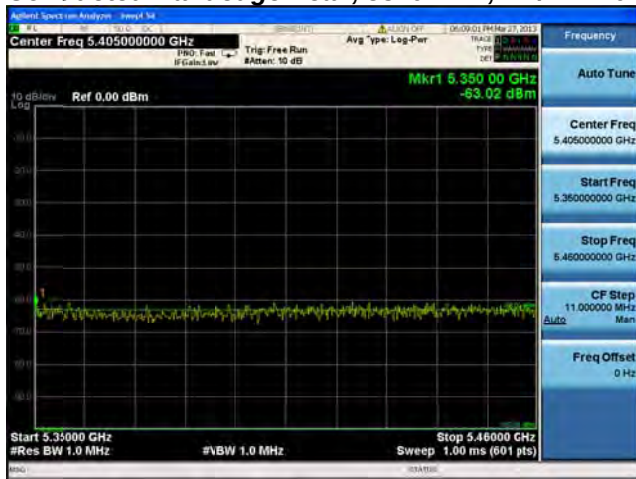
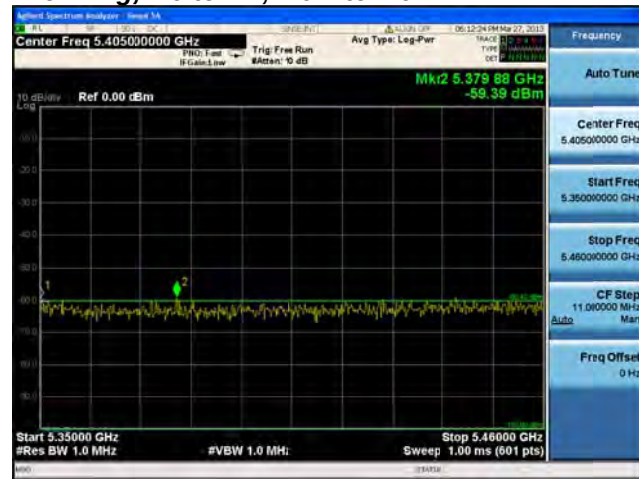
Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

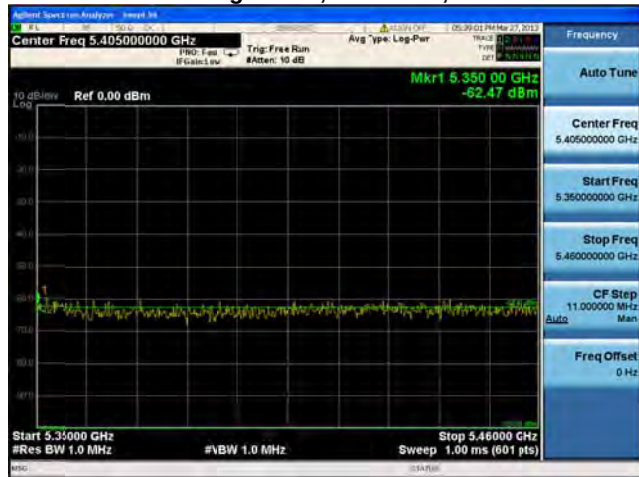
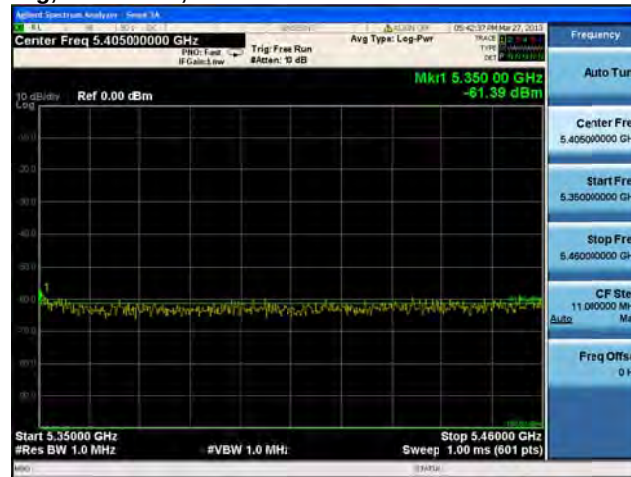
Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

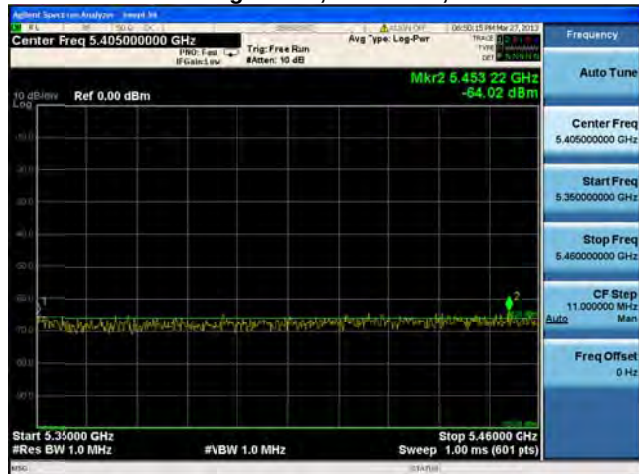
Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

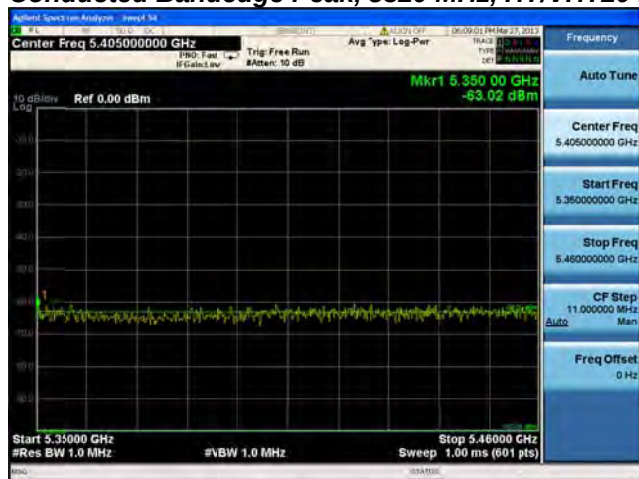
**Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

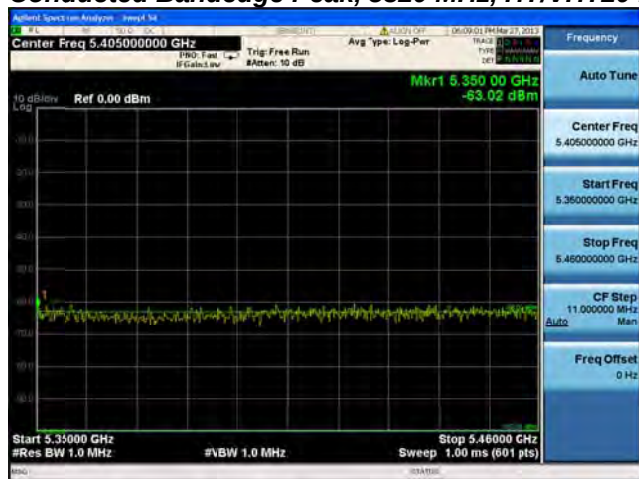
**Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

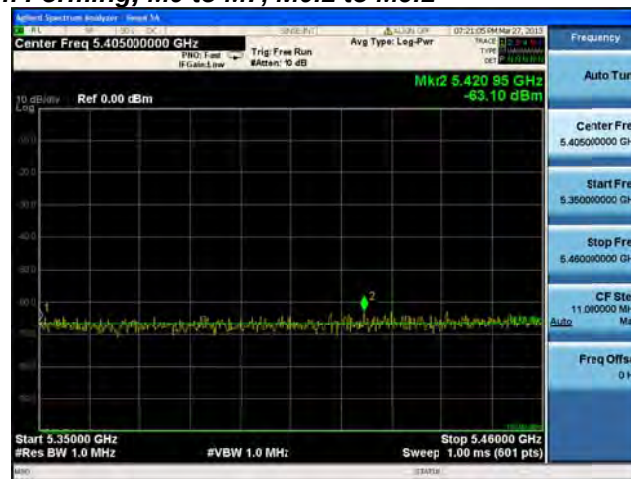
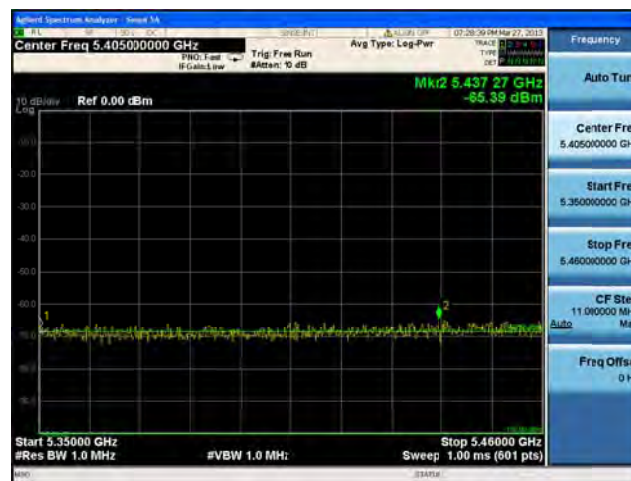
**Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

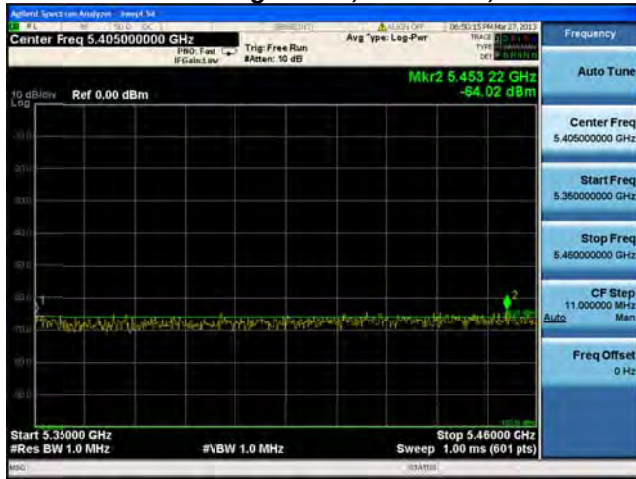
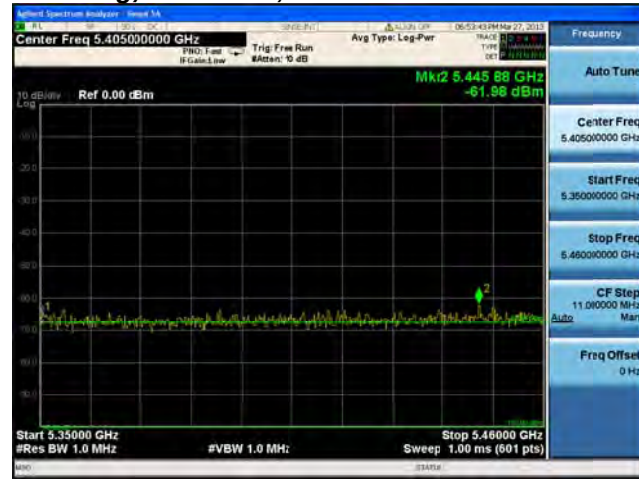
**Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

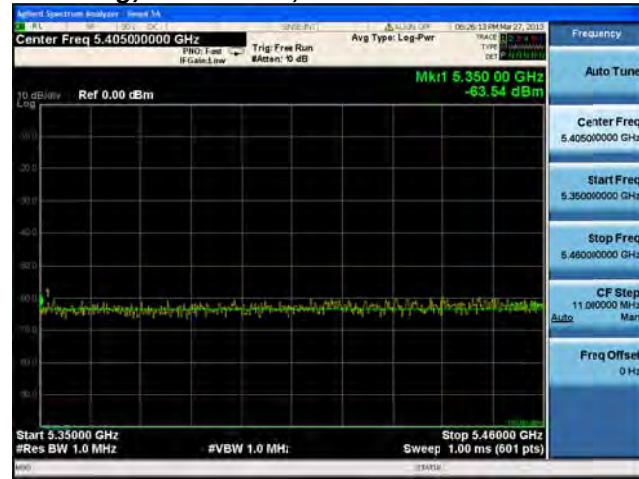
Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

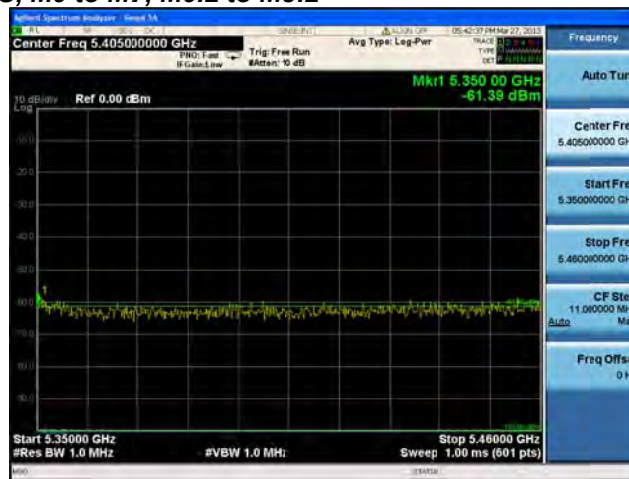
Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

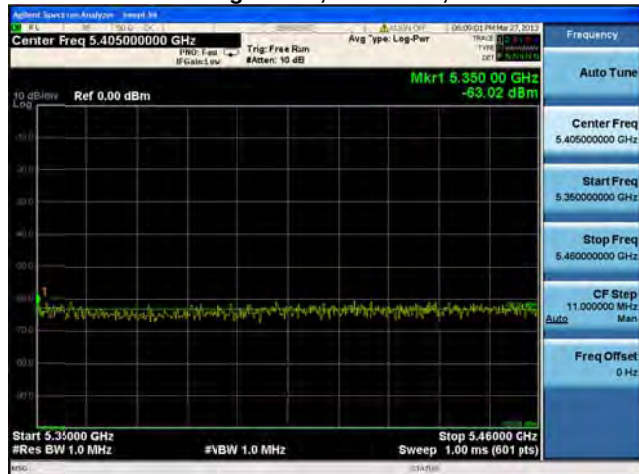
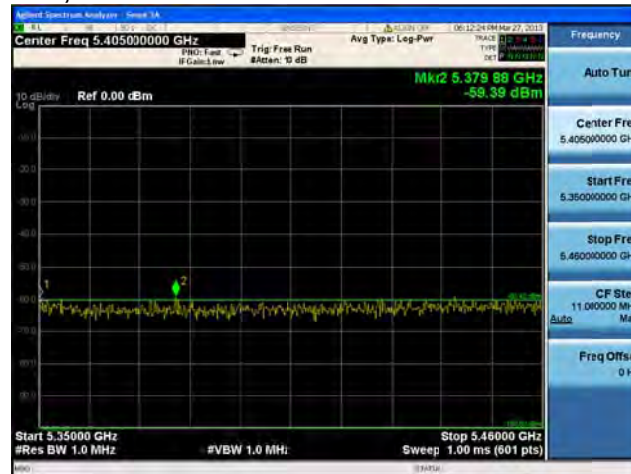
Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

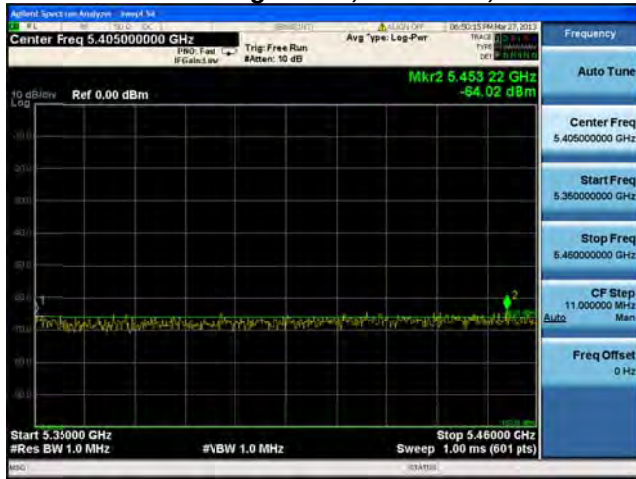
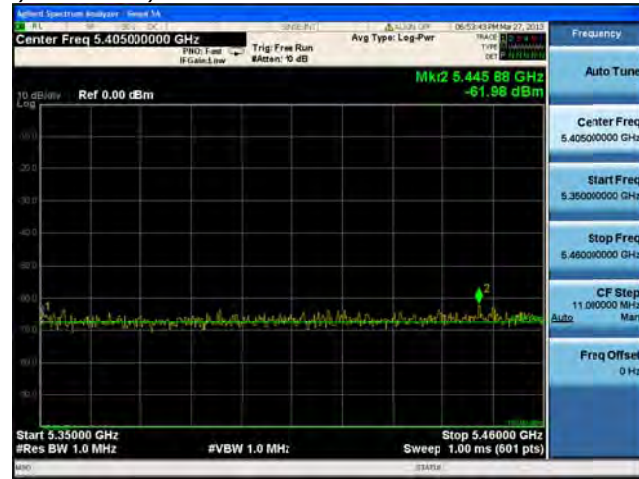
Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Peak, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Conducted Bandedge Peak, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Maximum Permissible Exposure (MPE) Calculations

15.407: U-NII devices are subject to the radio frequency radiation exposure requirements specified in Sec. 1.1307(b), Sec. 2.1091 and Sec. 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a "general population/uncontrolled" environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

Given

$$E = \sqrt{(30 \cdot P \cdot G)/d} \quad \text{and} \quad S = E^2/3770$$

where

E=Field Strength in Volts/meter

P=Power in Watts

G=Numeric Antenna Gain

d=Distance in meters

S=Power Density in mW/cm²

Combine equations and rearrange the terms to express the distance as a function of the remaining variables:

$$d = \sqrt{((30 \cdot P \cdot G)/(3770 \cdot S))}$$

Changing to units of power in mW and distance in cm, using:

$$P(\text{mW}) = P(\text{W})/1000 \quad d(\text{cm}) = 100 \cdot d(\text{m})$$

yields

$$d = 100 \cdot \sqrt{((30 \cdot (P/1000) \cdot G)/(3770 \cdot S))}$$

$$d = 0.282 \cdot \sqrt{(P \cdot G/S)}$$

where

d=Distance in cm

P=Power in mW

G=Numerica Antenna Gain

S=Power Density in mW/cm²

Substituting the logarithmic form of power and gain using:

$$P(\text{mW}) = 10^{(P(\text{dBm})/10)} \quad G(\text{numeric}) = 10^{(G(\text{dBi})/10)}$$

yields

$$d = 0.282 \cdot 10^{((P+G)/20)} / \sqrt{S} \quad \text{Equation (1)}$$

and

$$S = ((0.282 \cdot 10^{((P+G)/20)})/d)^2 \quad \text{Equation (2)}$$

where

d=MPE distance in cm

P=Power in dBm

G=Antenna Gain in dBi

S=Power Density in mW/cm²



Equation (1) and the measured peak power are used to calculate the MPE distance. Note that for mobile or fixed location transmitters such as an access point, the minimum separation distance is 20 cm even if the calculations indicate that the MPE distance may be less.

$S=1\text{mW/cm}^2$ maximum. The highest supported antenna gain is 13 dBi. Using the peak power levels recorded in the test report along with Equation 1 above, the MPE distances are calculated as follows.

Frequency (MHz)	Bit Rate (Mbps)	Power Density (mW/cm ²)	Peak Transmit Power (dBm)	Antenna Gain (dBi)	MPE Distance (cm)	Limit (cm)	Margin (cm)
5260/5280	M8	1	14.3	13	6.54	20	13.46

MPE Calculations

To maintain compliance, installations will assure a separation distance of at least 20cm.

Using Equation 2, the MPE levels (s) at 20 cm are calculated as follows:

Frequency (MHz)	Bit Rate (Mbps)	MPE Distance (cm)	Peak Transmit Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Margin (mW/cm ²)
5260/5280	M8	20	14.3	13	0.11	1	0.89



Appendix C: Test Equipment/Software Used to perform the test

Equip #	Manufacturer	Model	Description	Last Cal	Next Due
CIS049381	Agilent	N9030A	Spectrum Analyzer	28-Aug-12	28-Aug-13