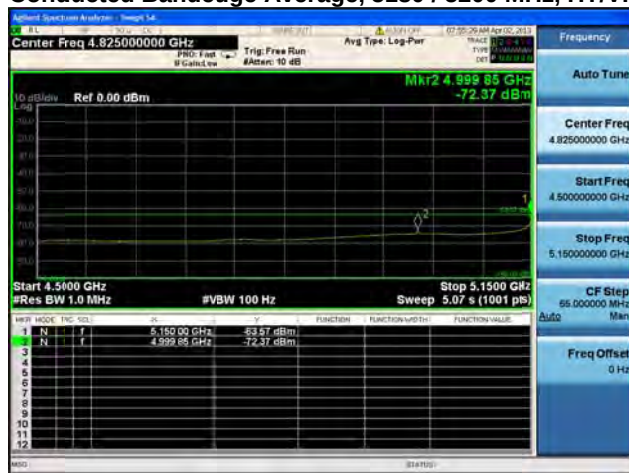
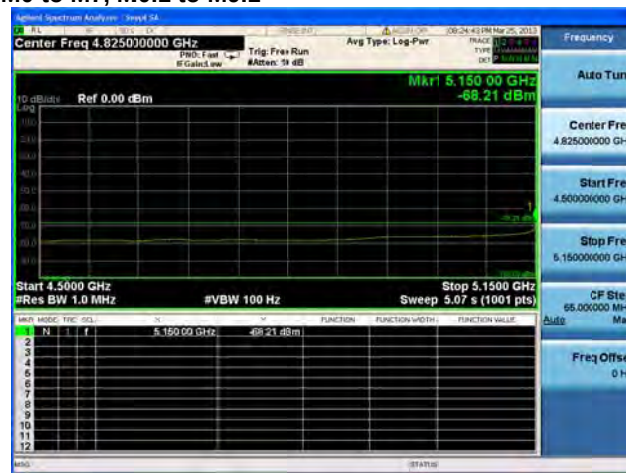


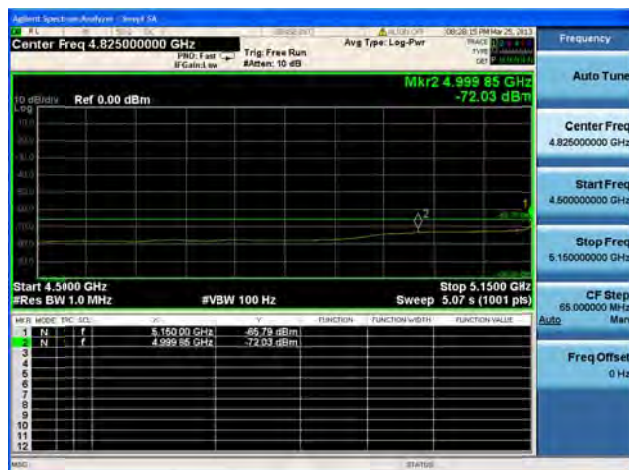
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1



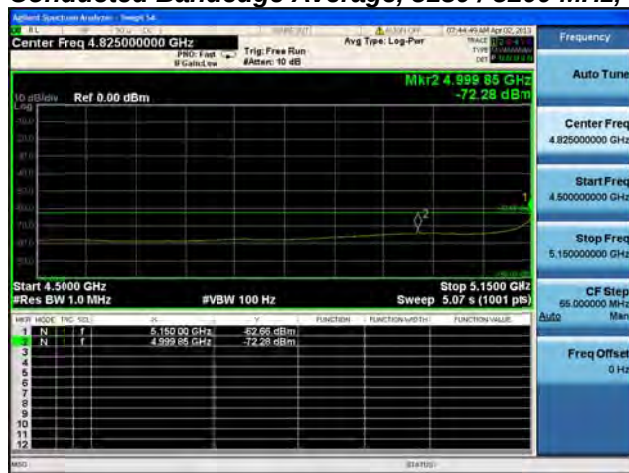
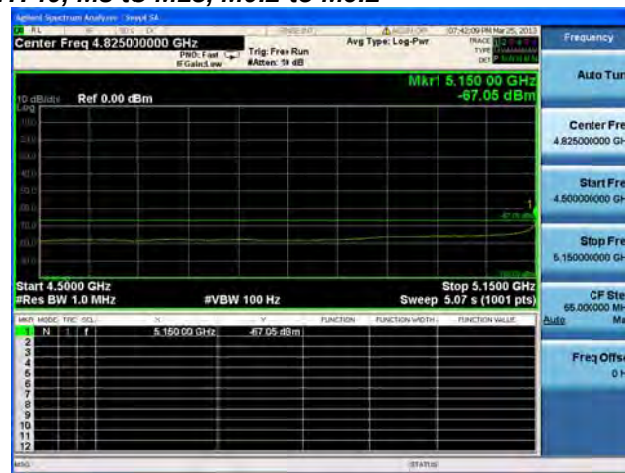
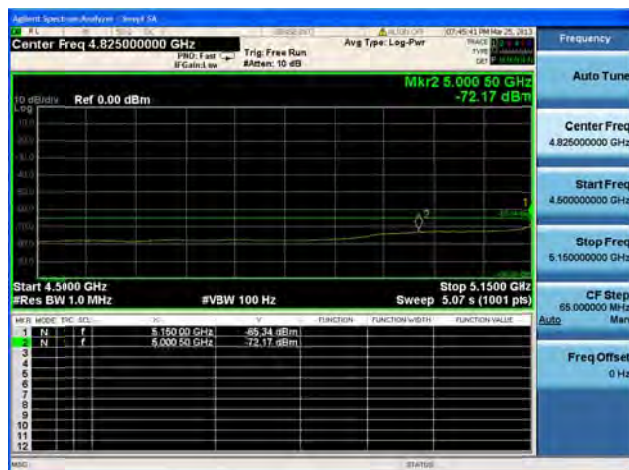
Antenna A

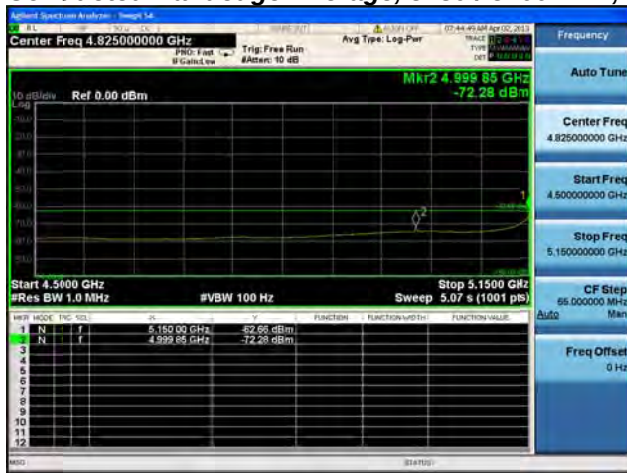
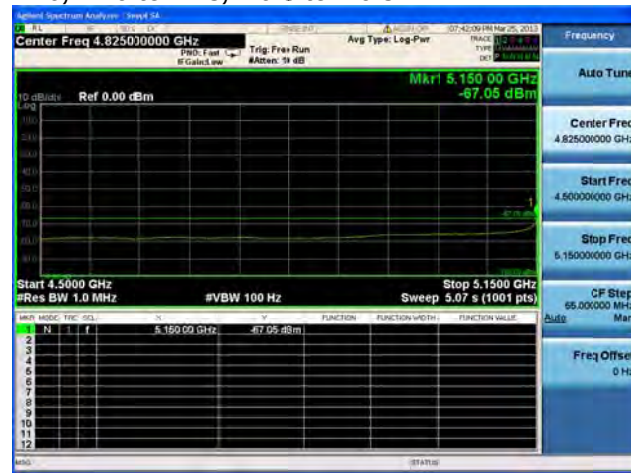
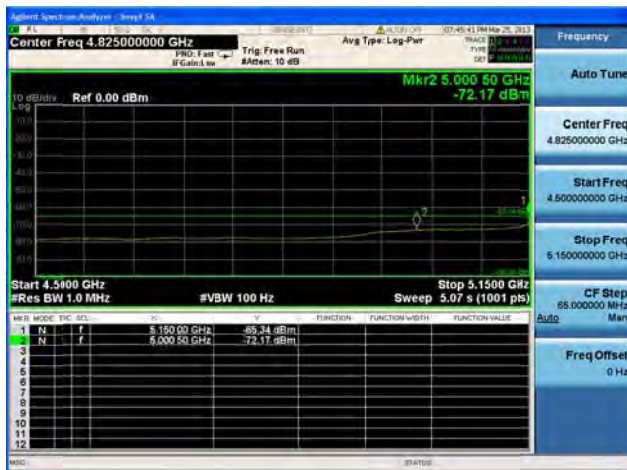


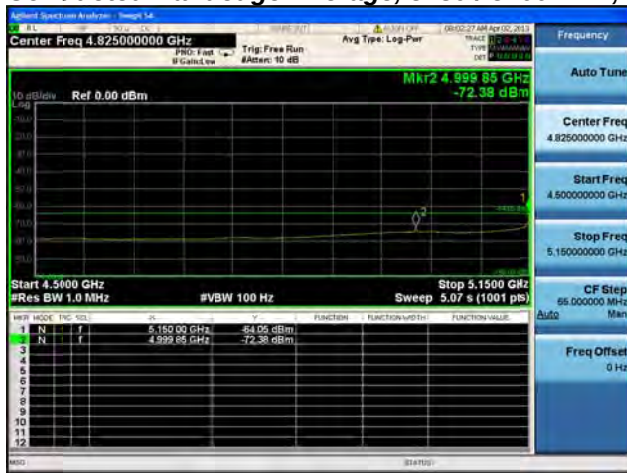
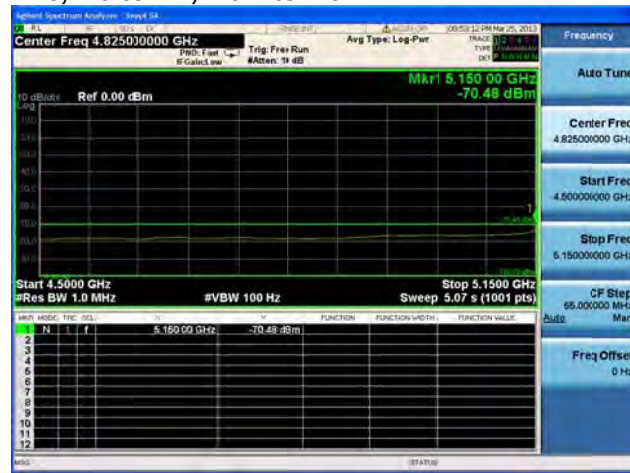
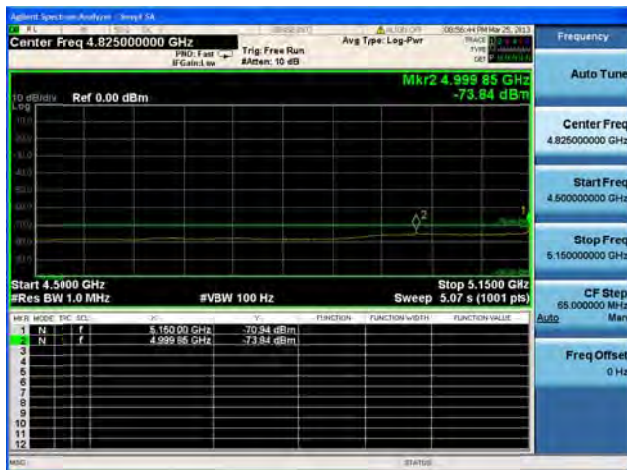
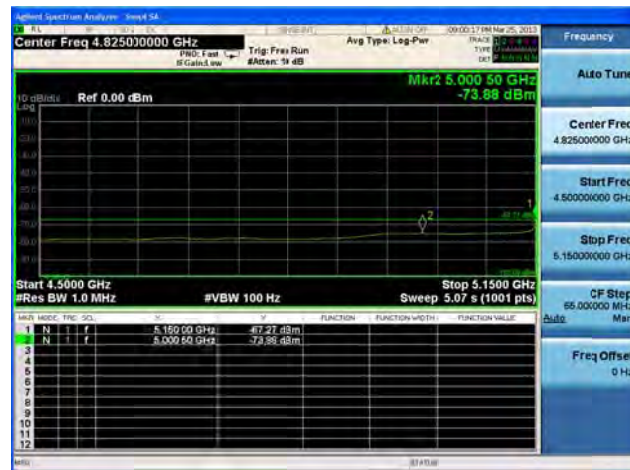
Antenna B

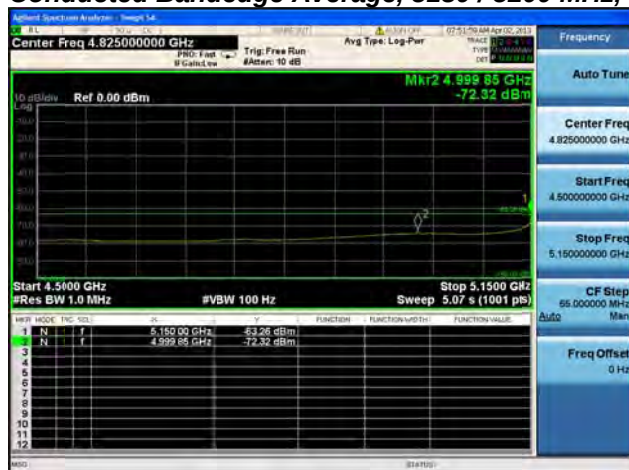
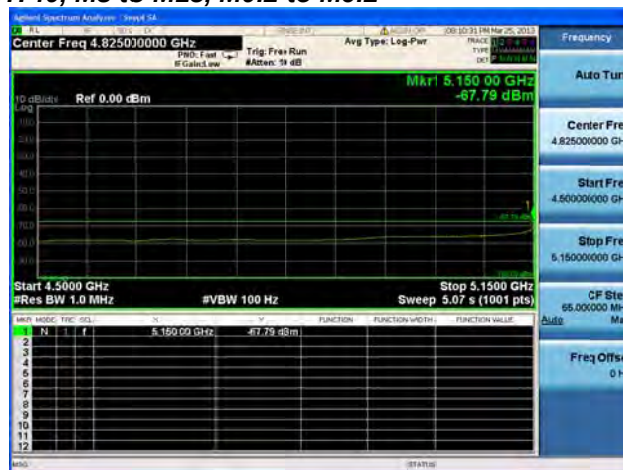
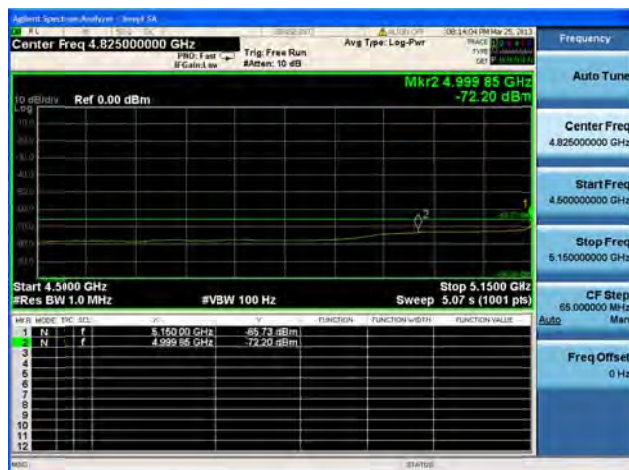
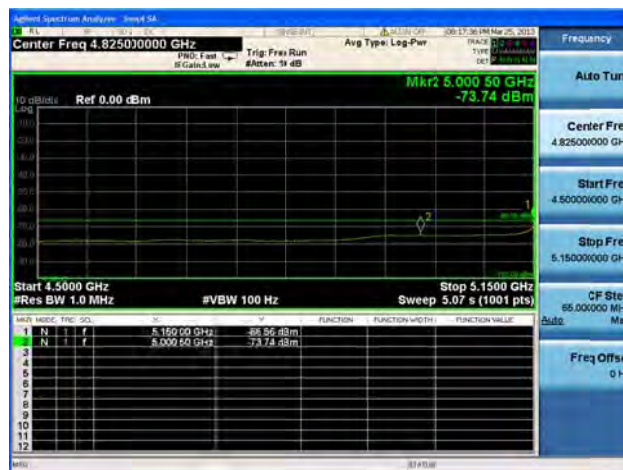


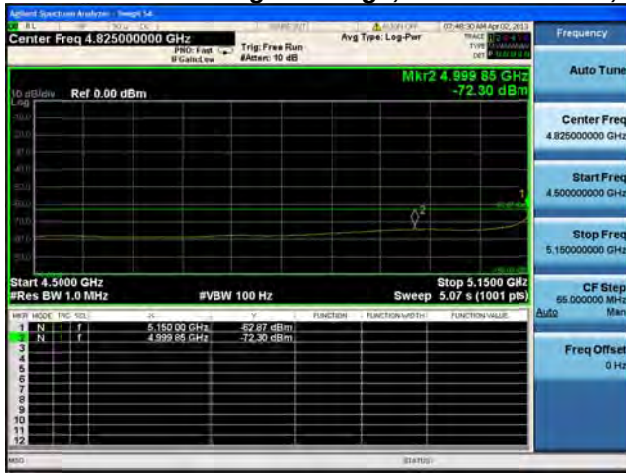
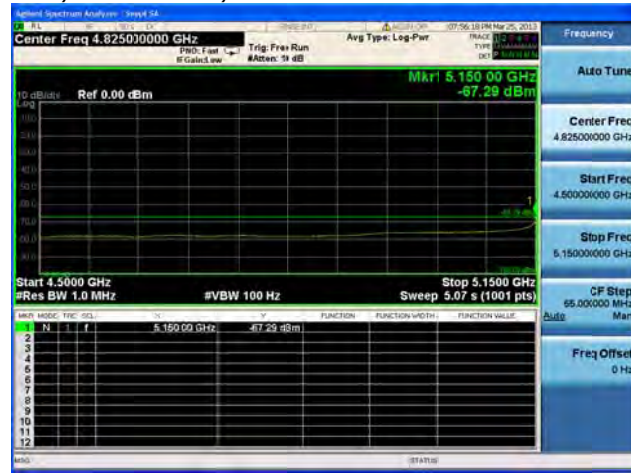
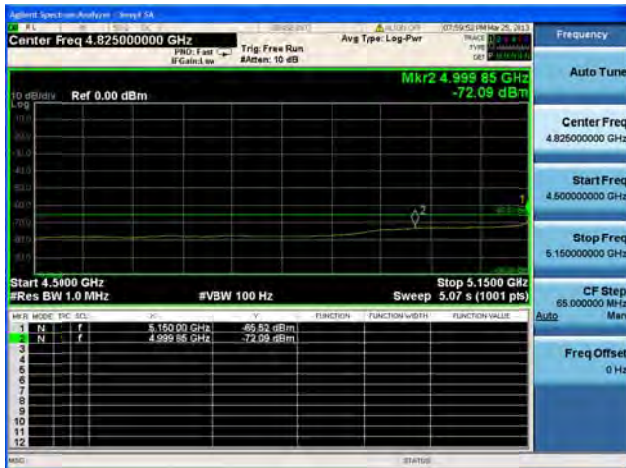
Antenna C

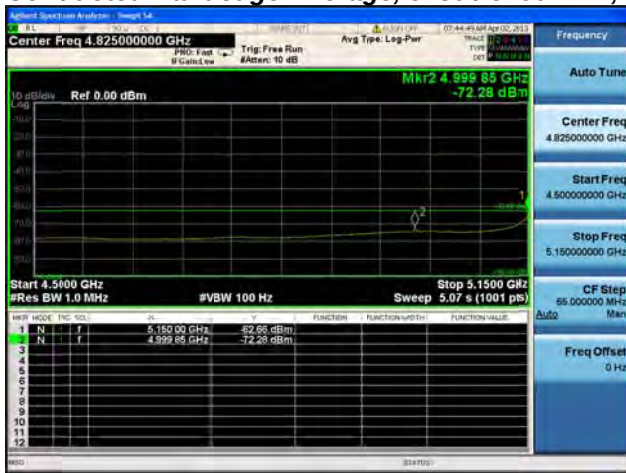
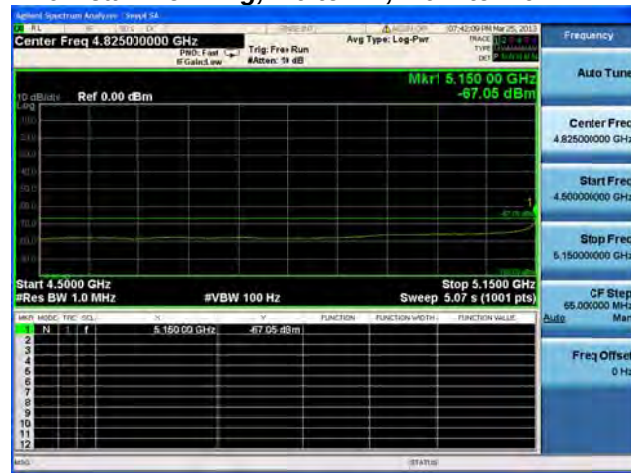
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

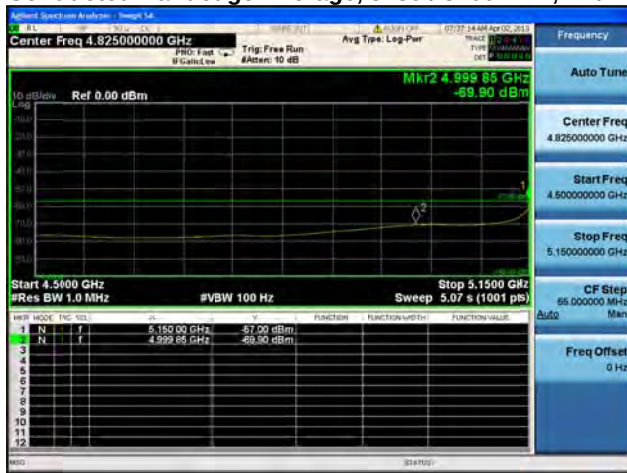
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

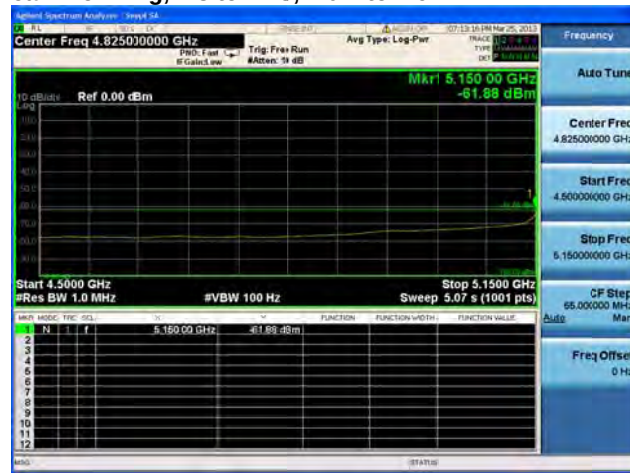
**Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**



Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2

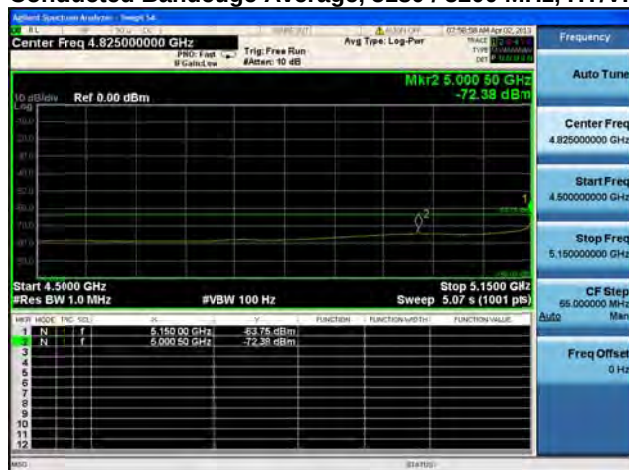


Antenna A

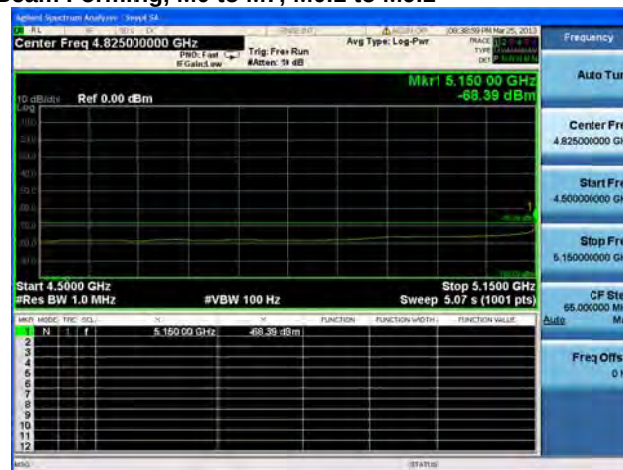


Antenna B

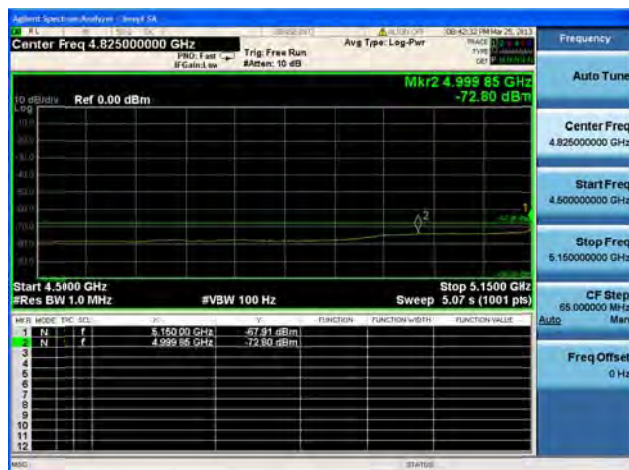
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1



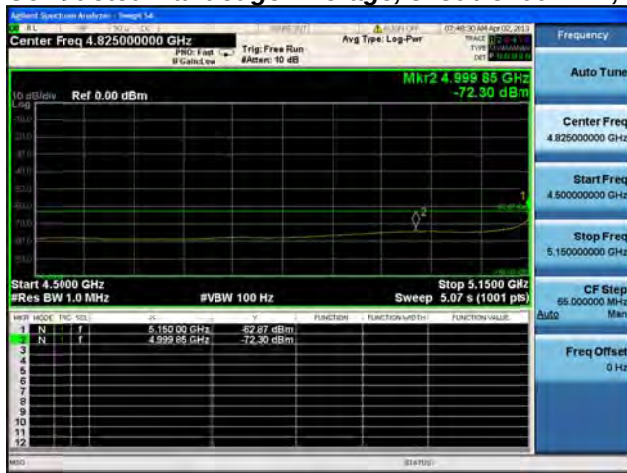
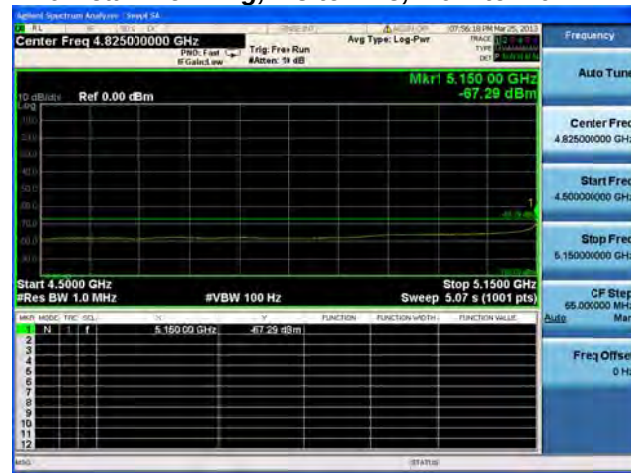
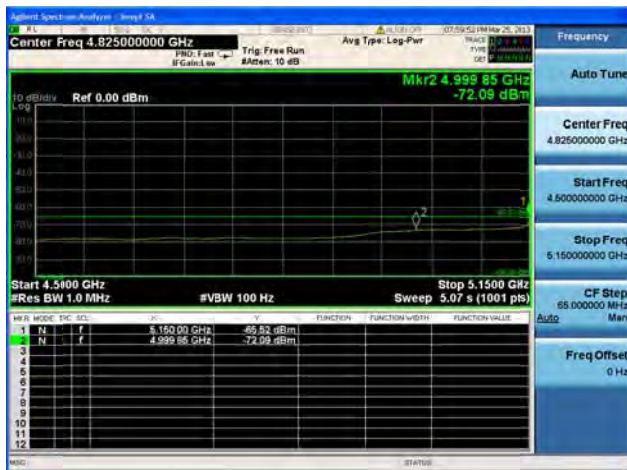
Antenna A

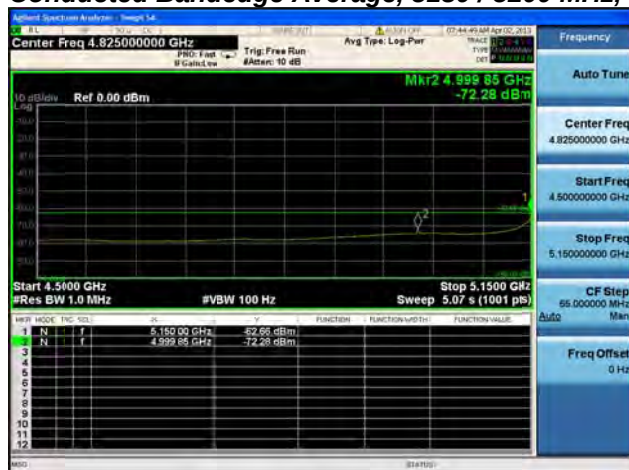
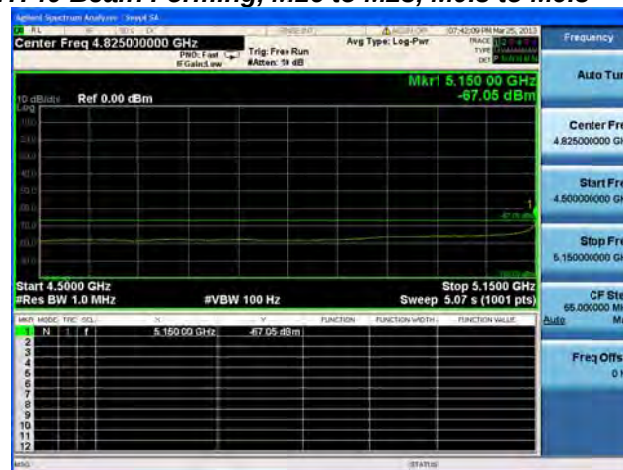
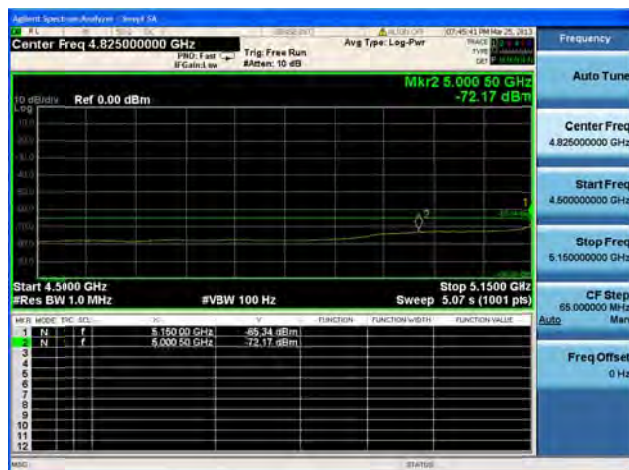


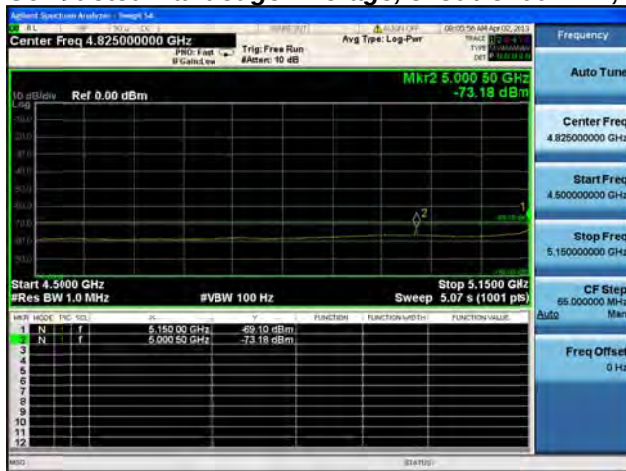
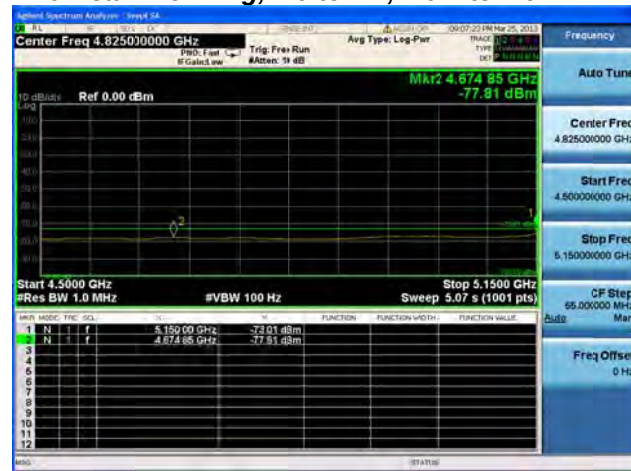
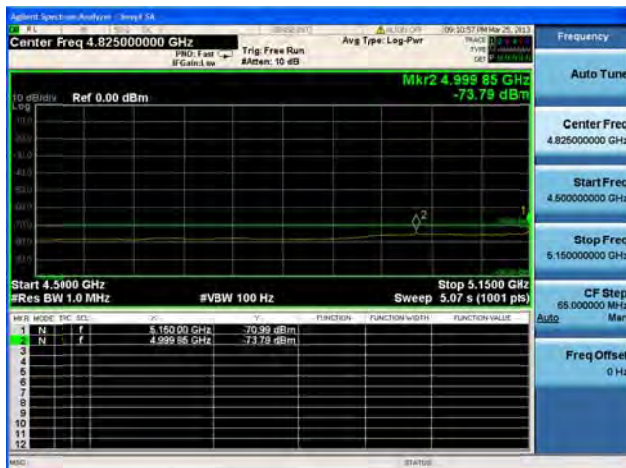
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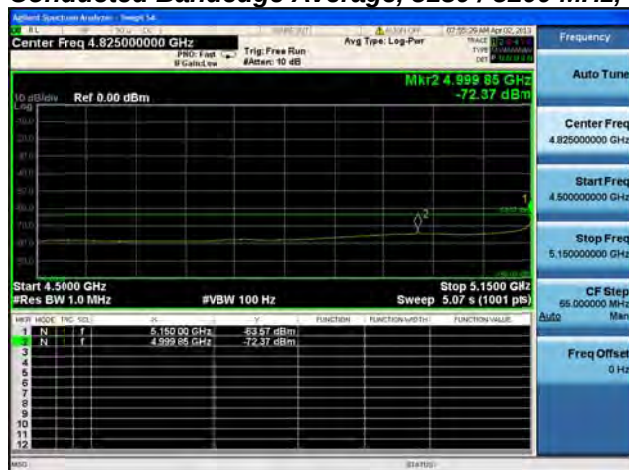
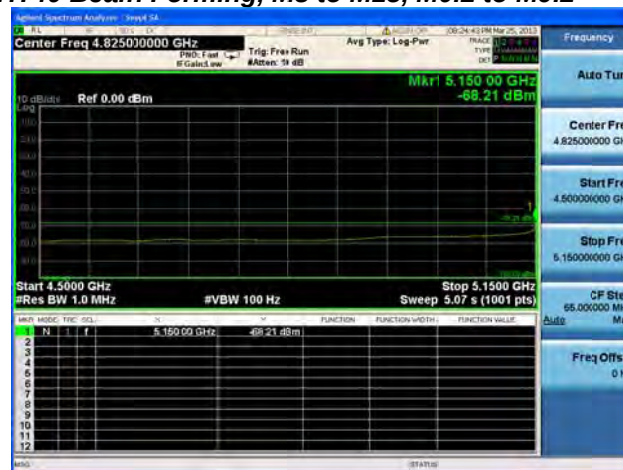
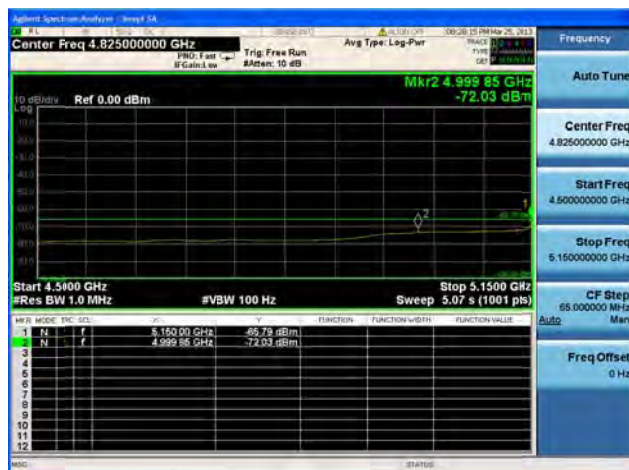
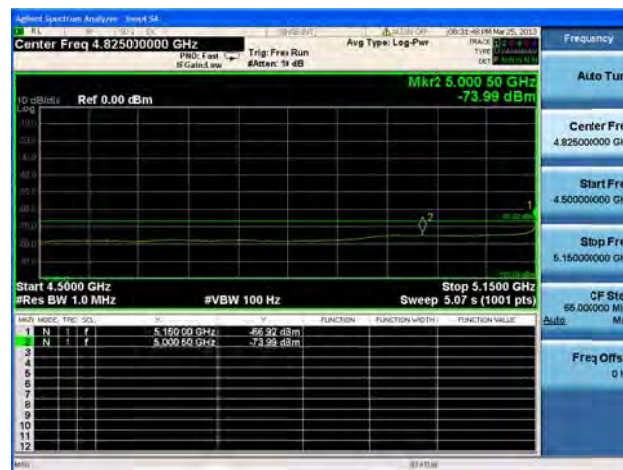


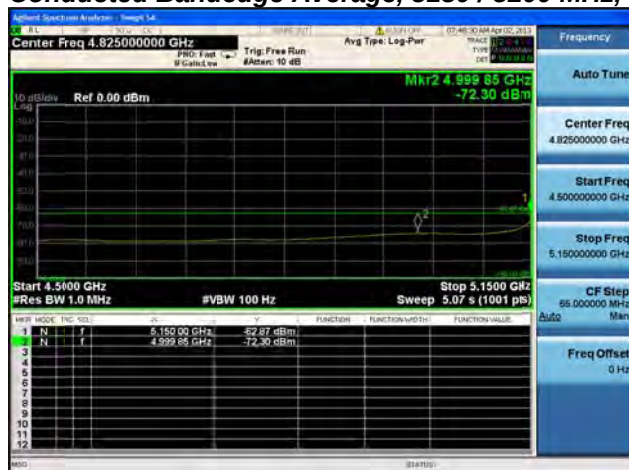
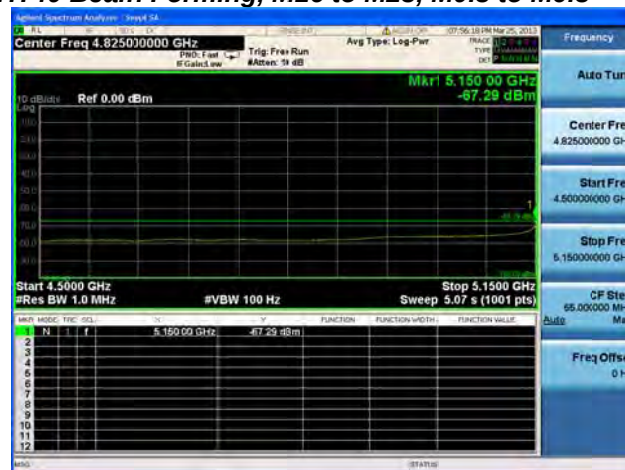
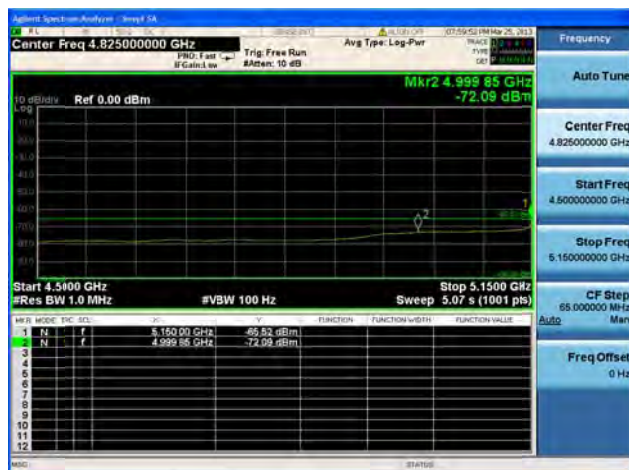
Antenna C

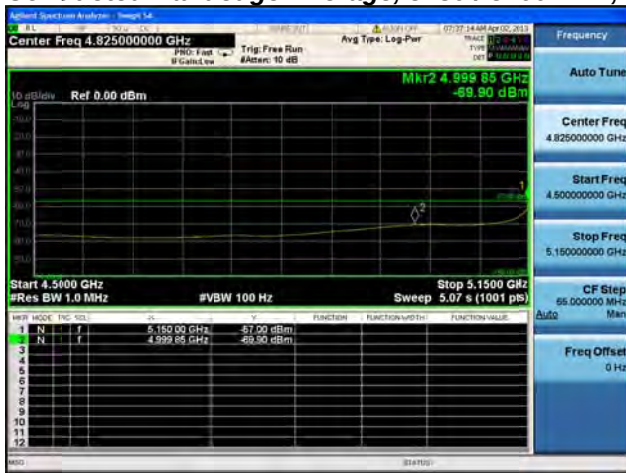
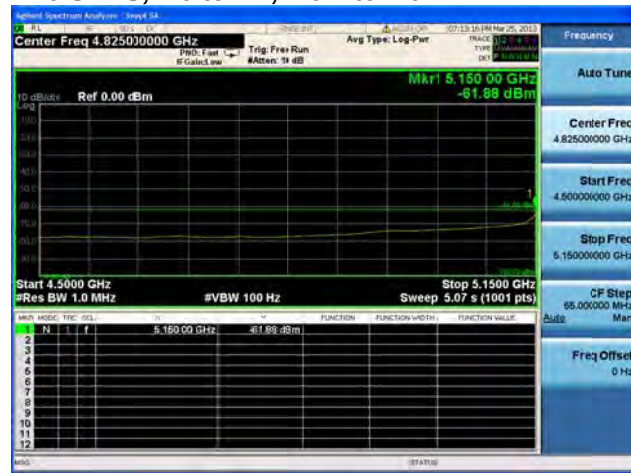
**Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

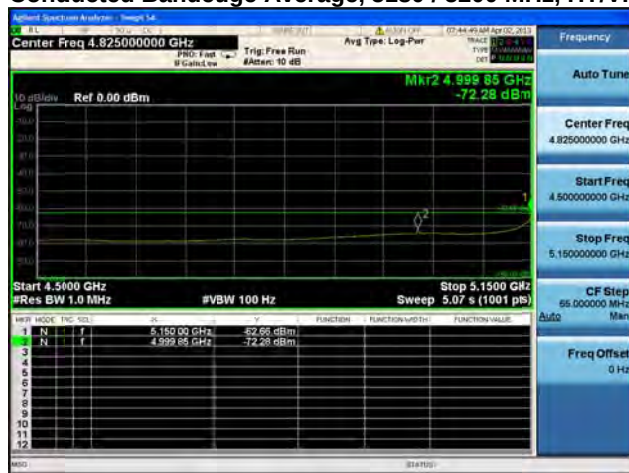
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

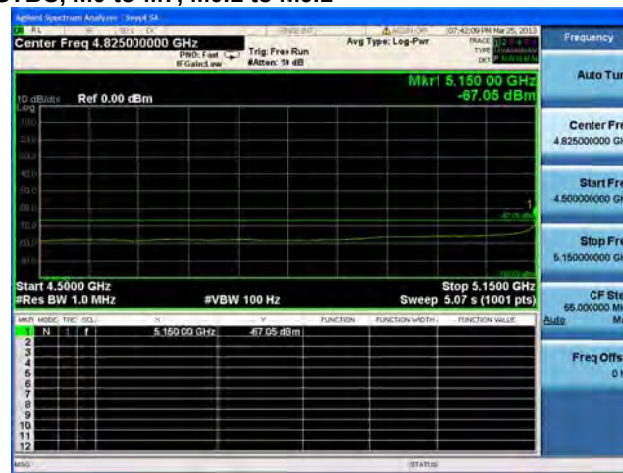
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

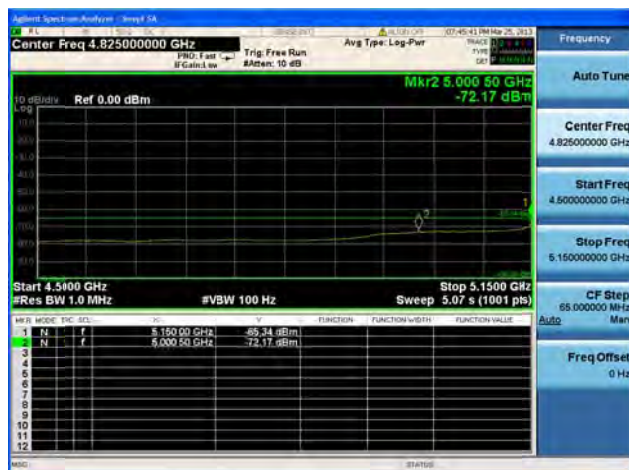
Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



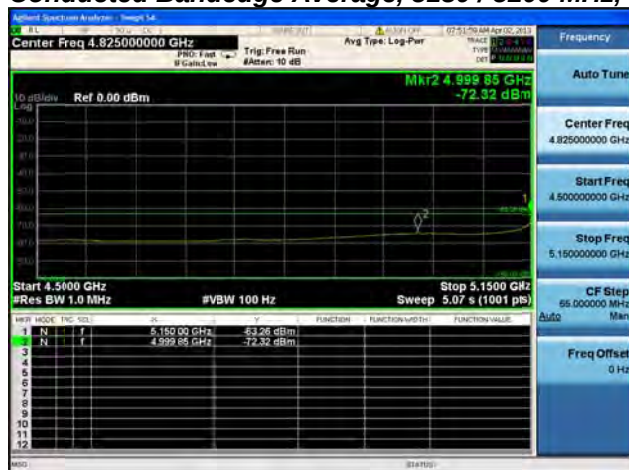
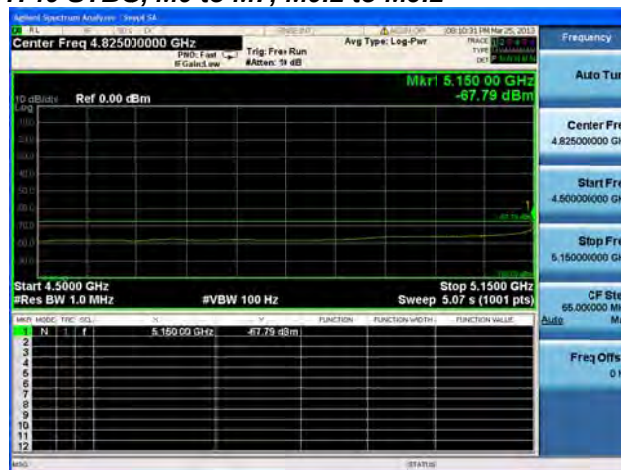
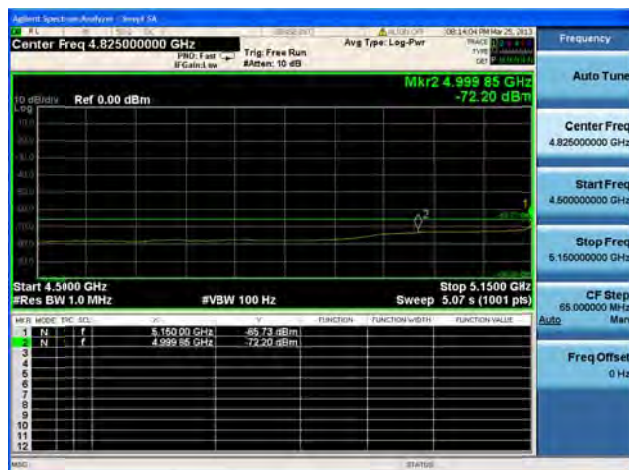
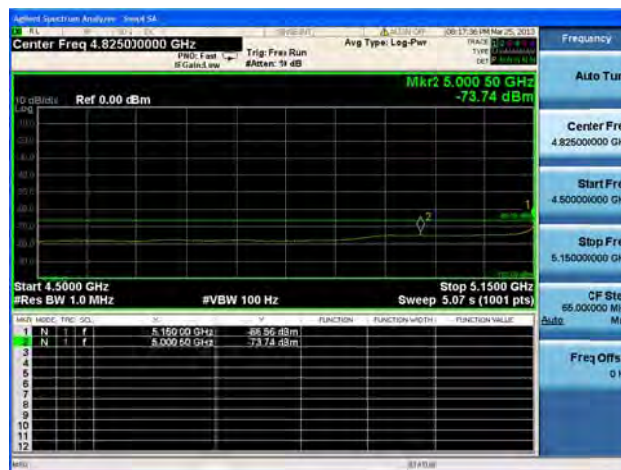
Antenna A

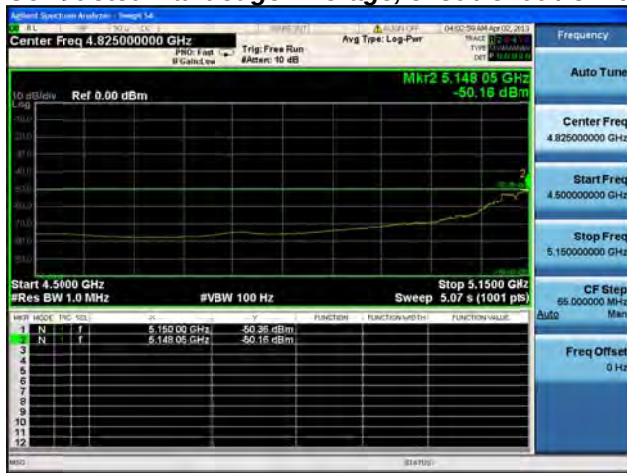


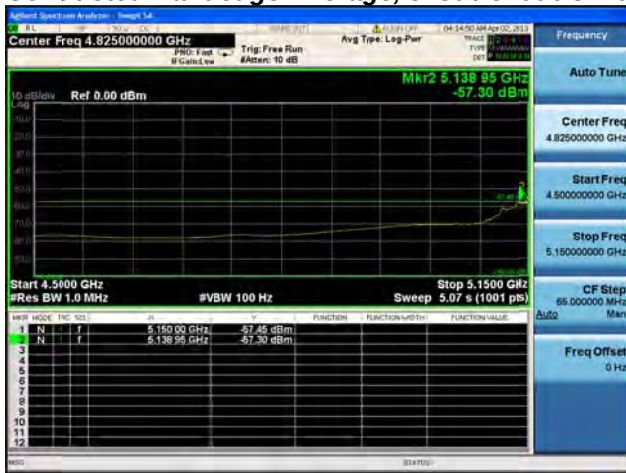
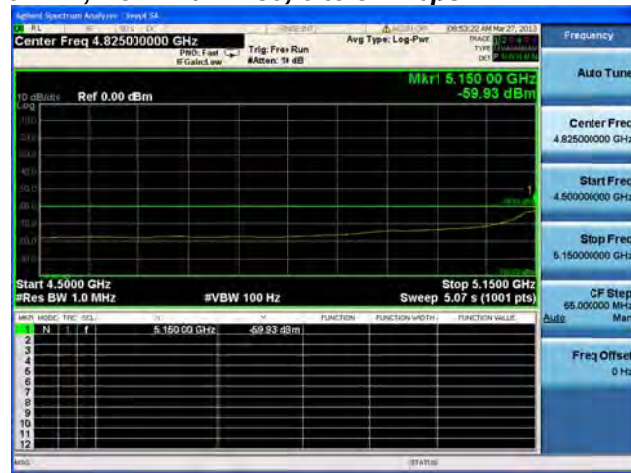
Antenna B



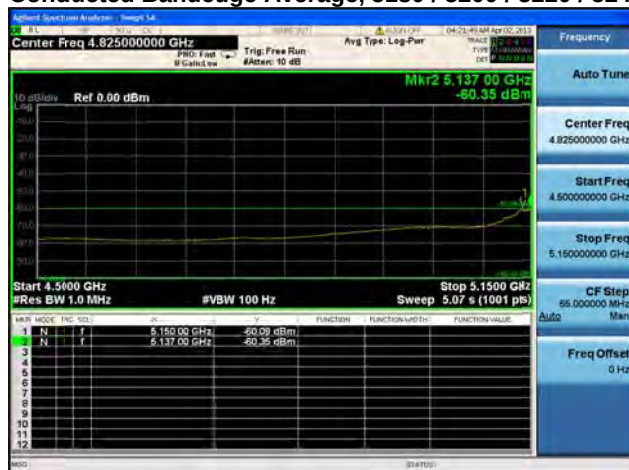
Antenna C

Conducted Bandedge Average, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

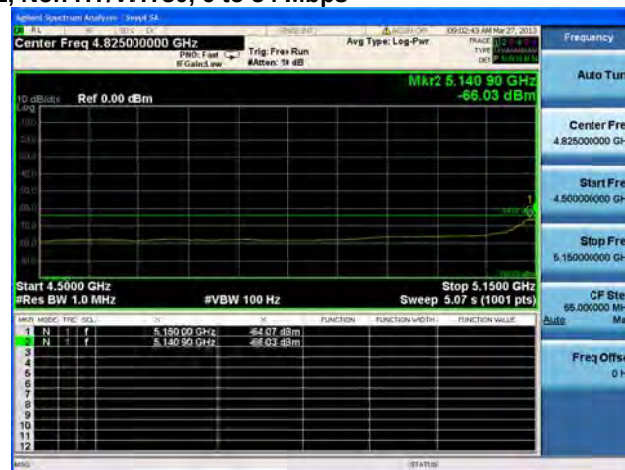
**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A**

**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B**

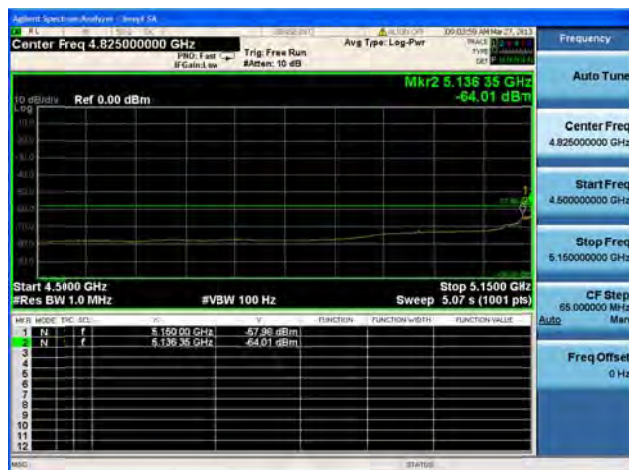
Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, Non HT/VHT80, 6 to 54 Mbps



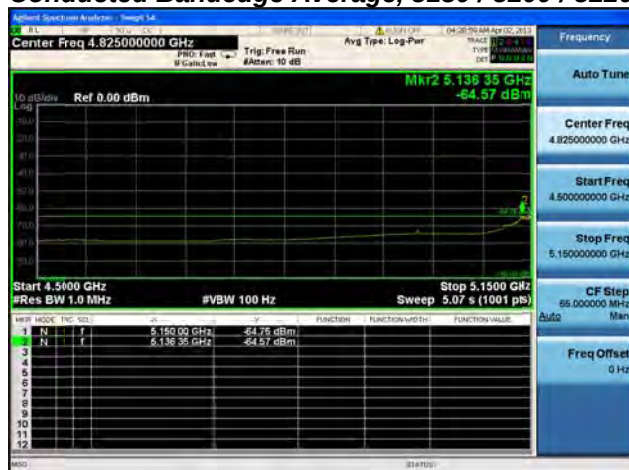
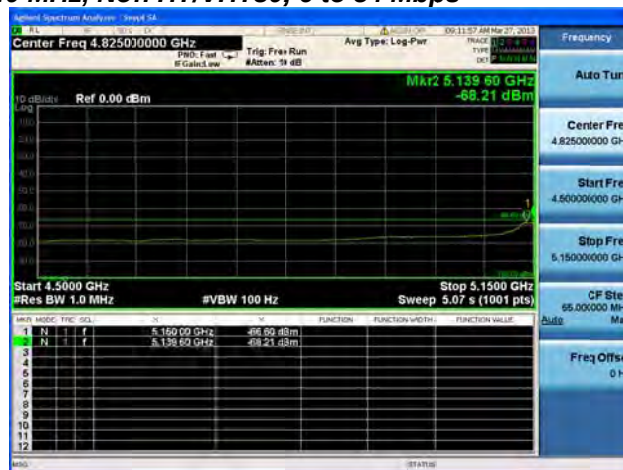
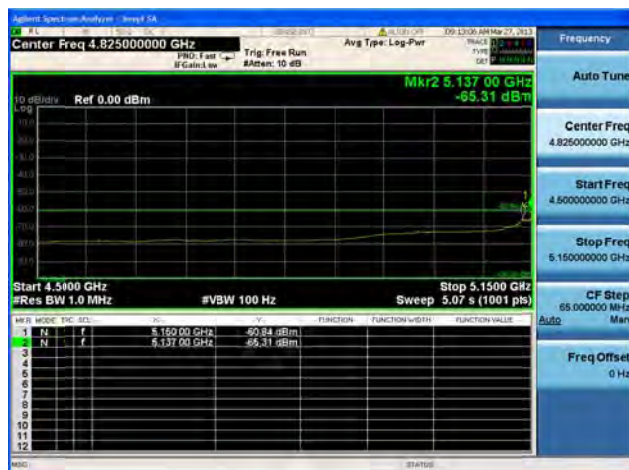
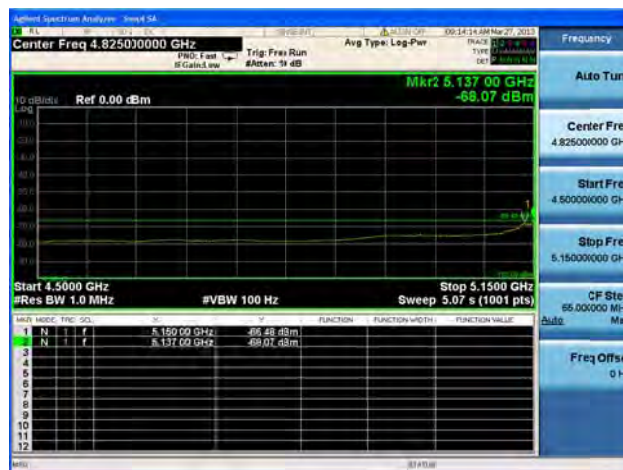
Antenna A

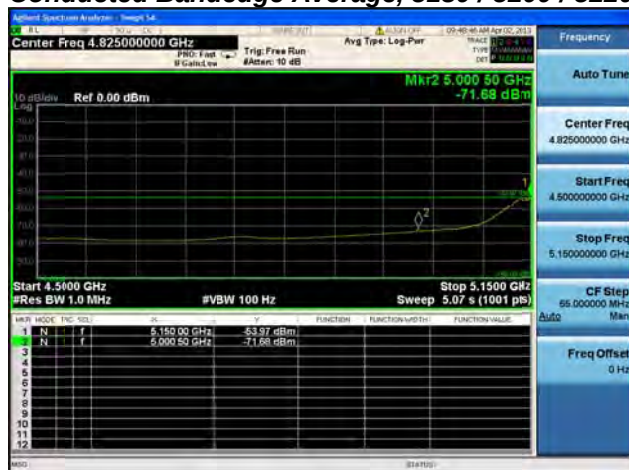


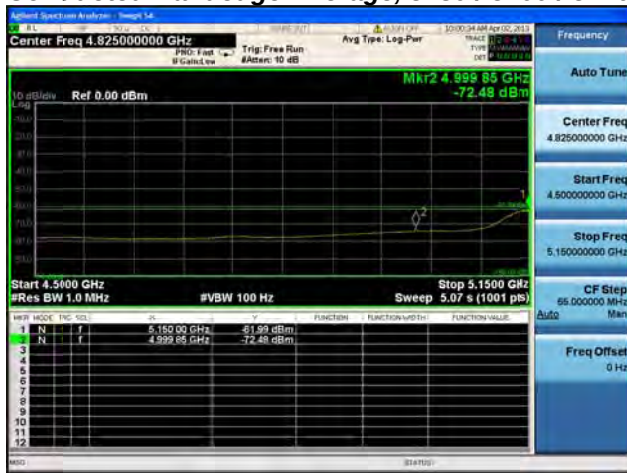
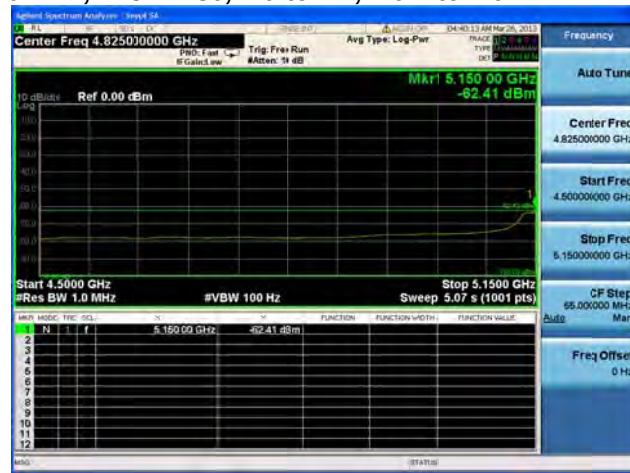
Antenna B



Antenna C

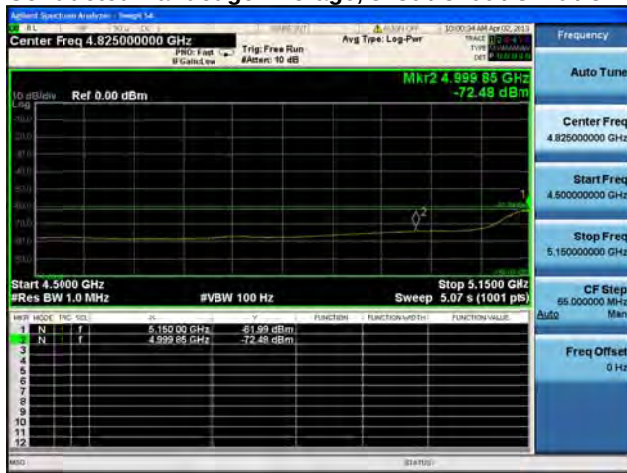
Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A**

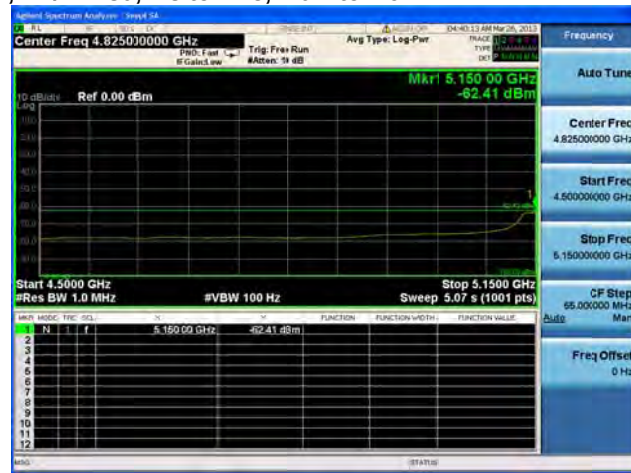
**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**



Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2

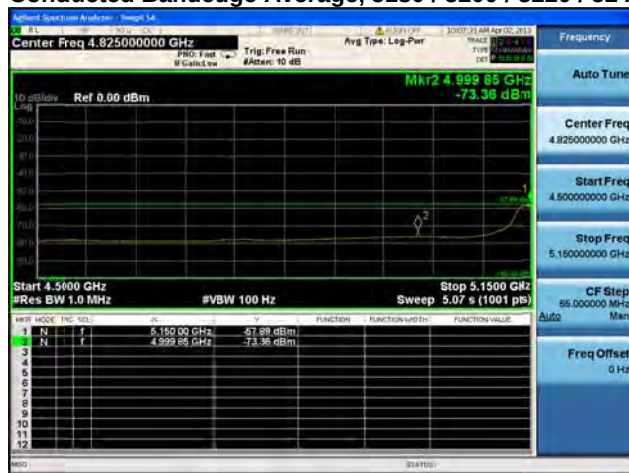


Antenna A

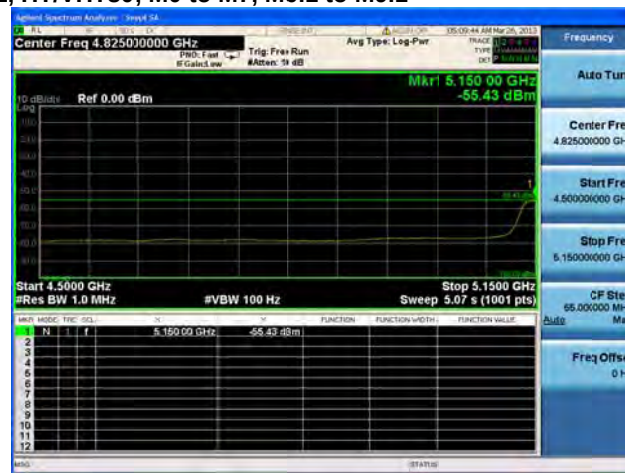


Antenna B

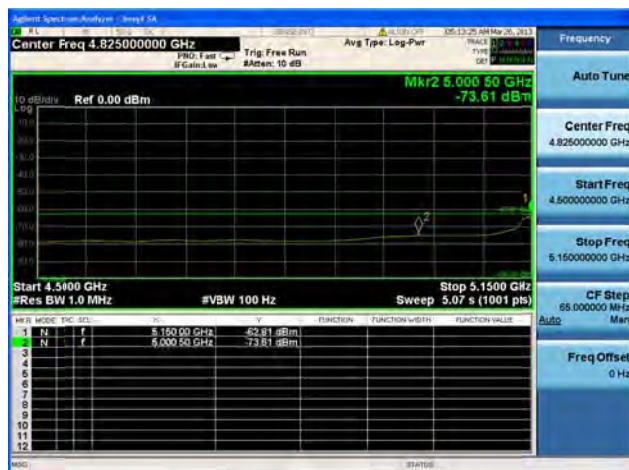
Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1



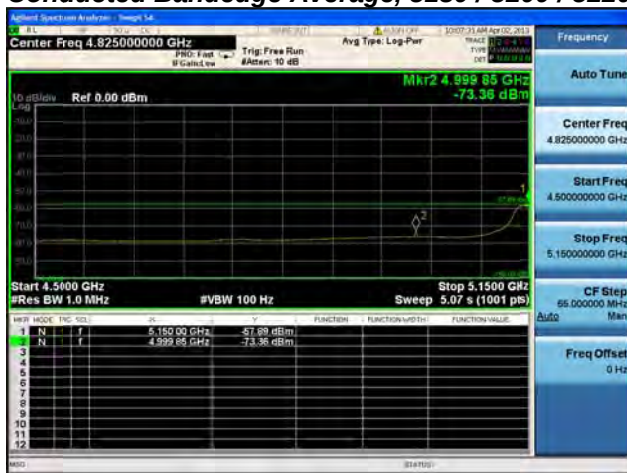
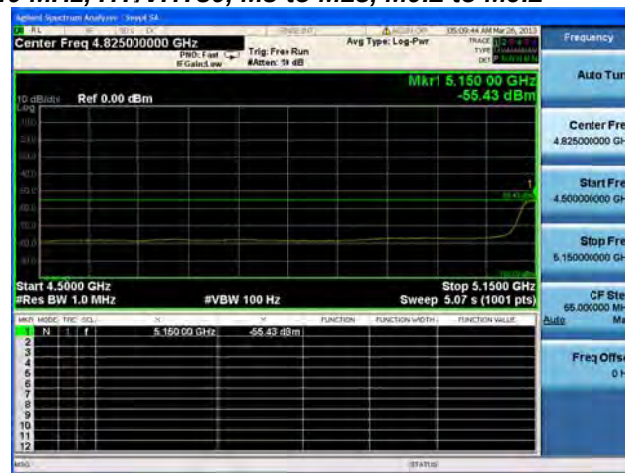
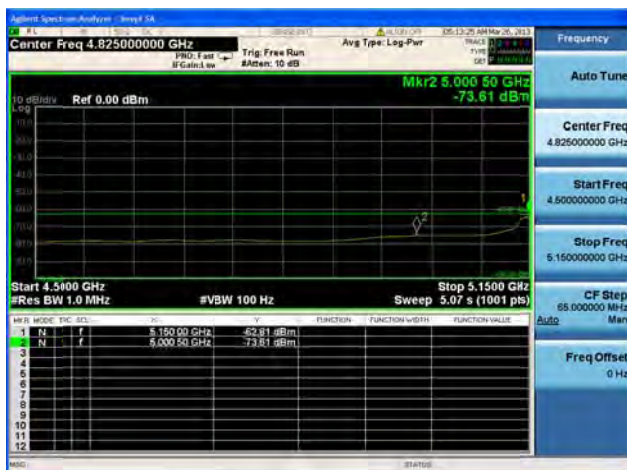
Antenna A

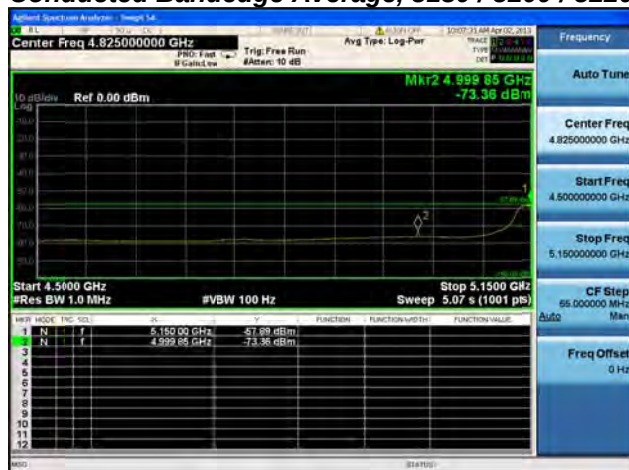
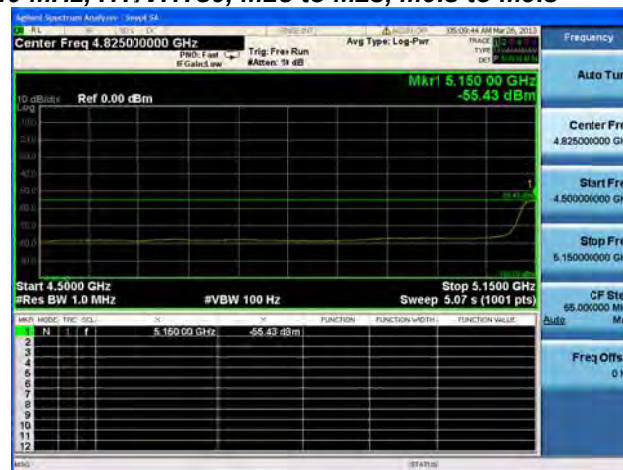
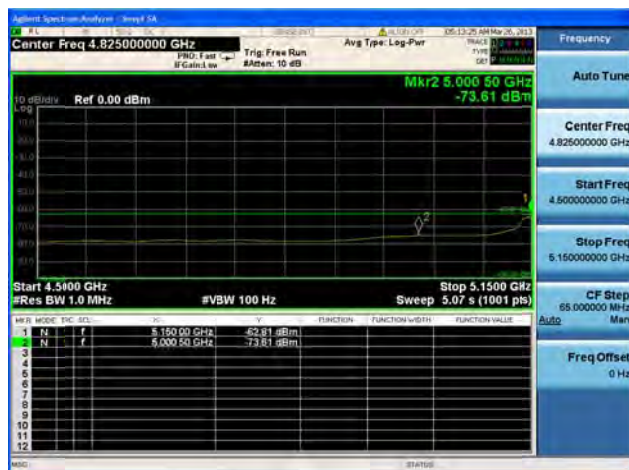


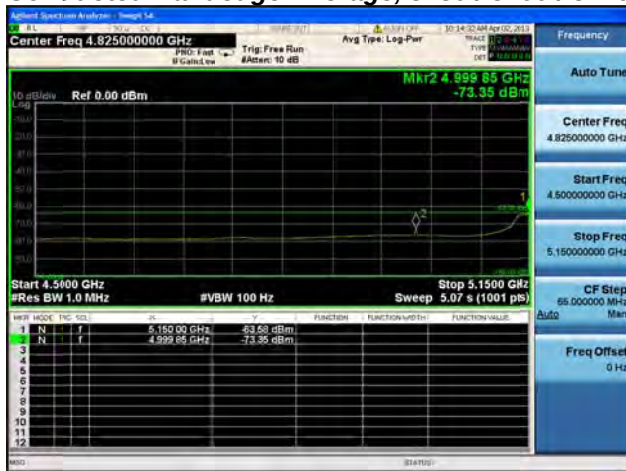
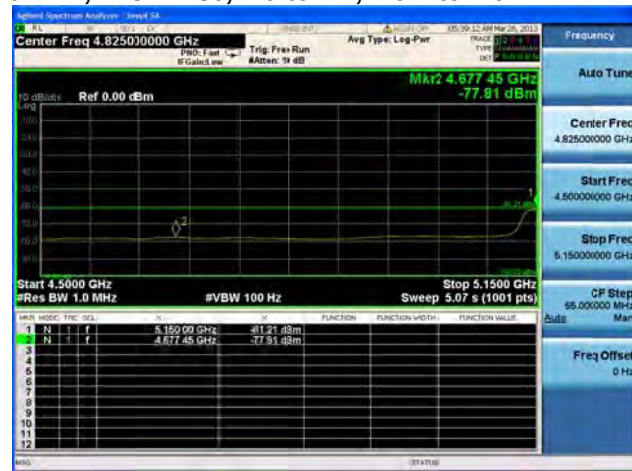
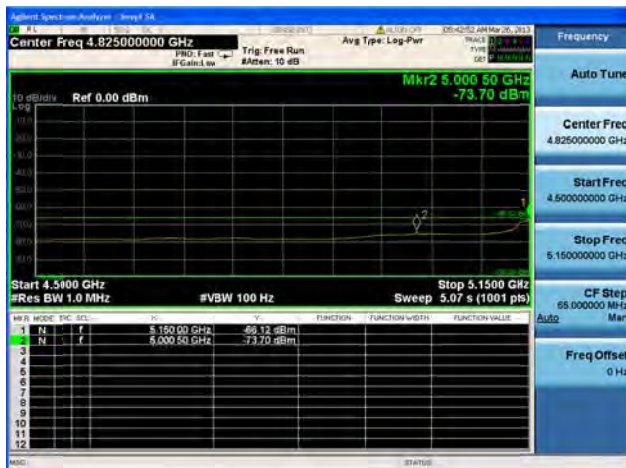
Antenna B

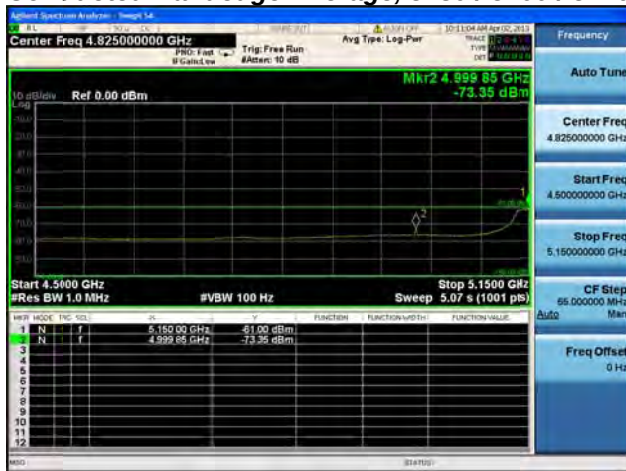
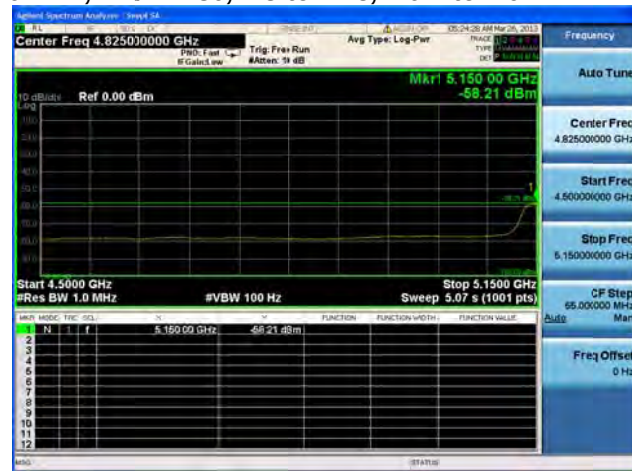
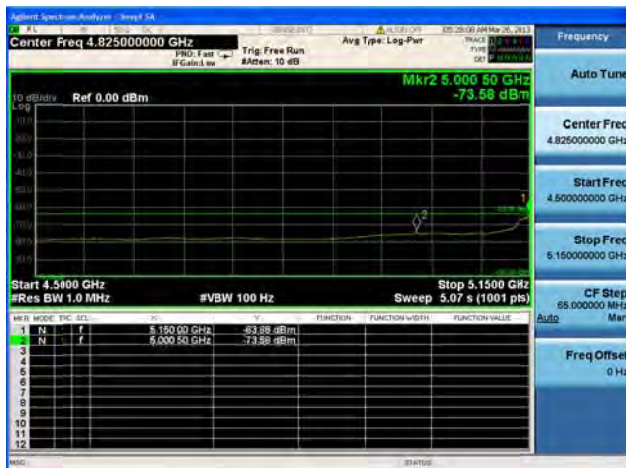


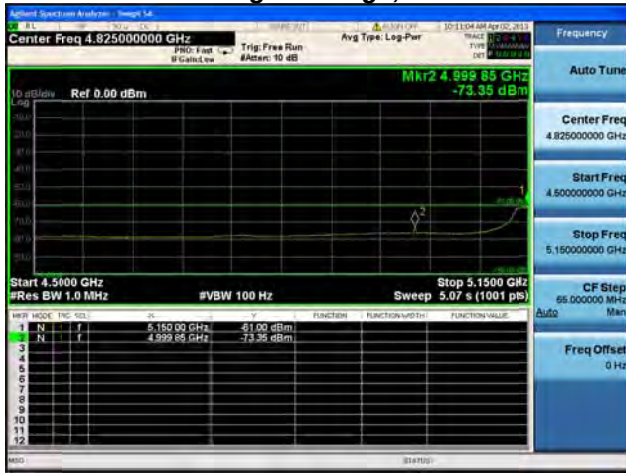
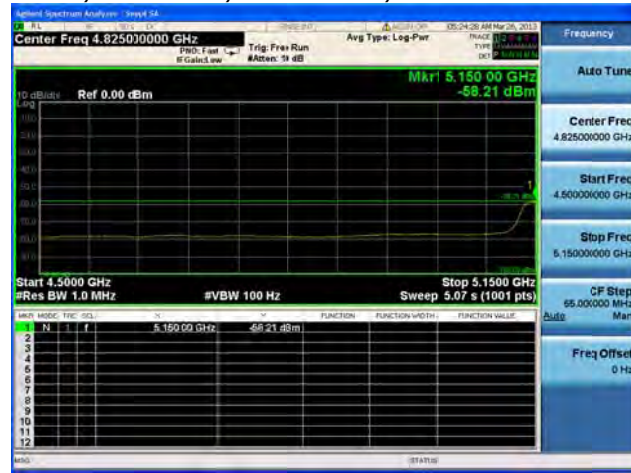
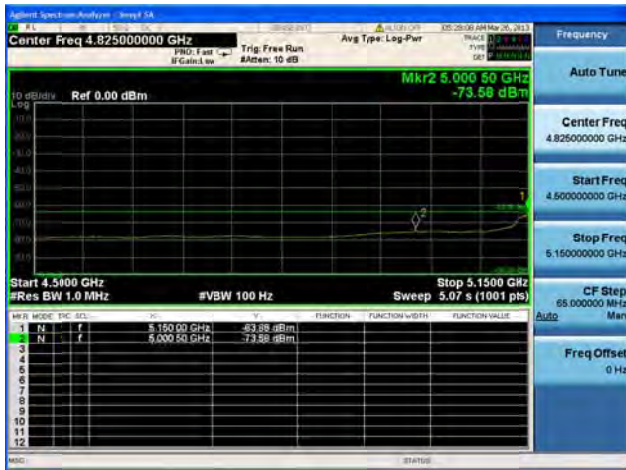
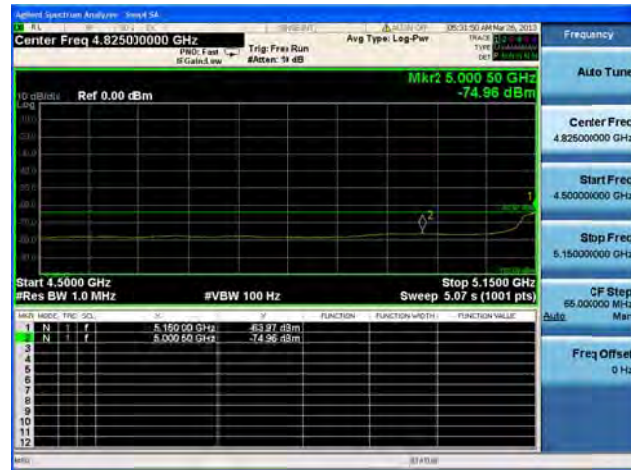
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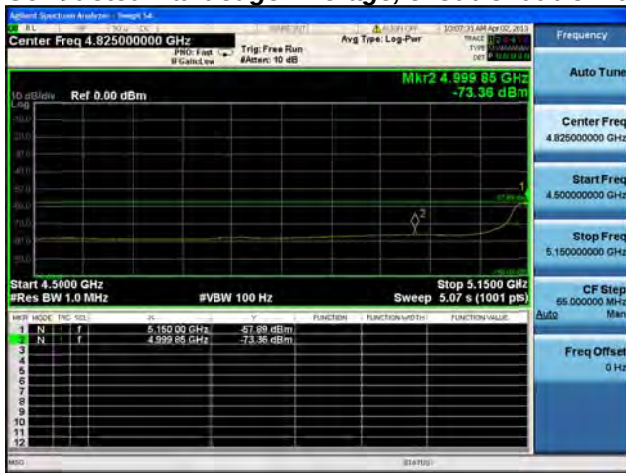
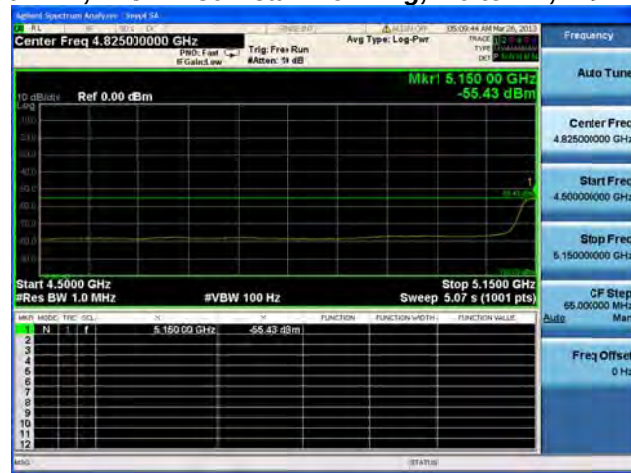
**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

Different Spectra Analyzer - Sweep 14
 14.11 MHz Span: 10.0 MHz
 Center Freq 4.825000000 GHz
 FREQ: Fast Trig: Free Run
 IF: Calibrated #Acq: 10 dB

Auto Tune
 Center Freq 4.825000000 GHz
 Start Freq 4.800000000 GHz
 Stop Freq 4.850000000 GHz
 CF Step 66.0000000 MHz
 Auto Man

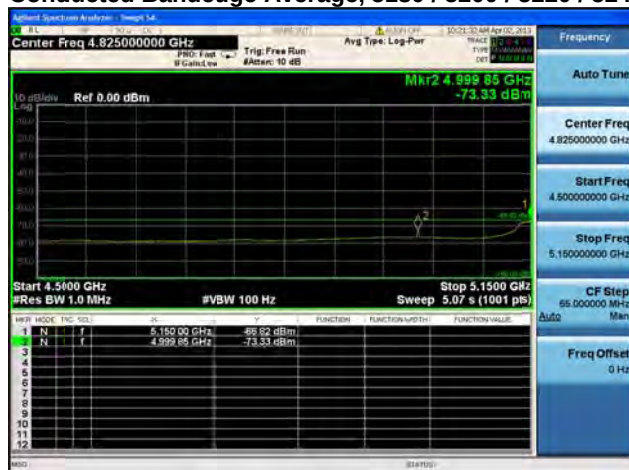
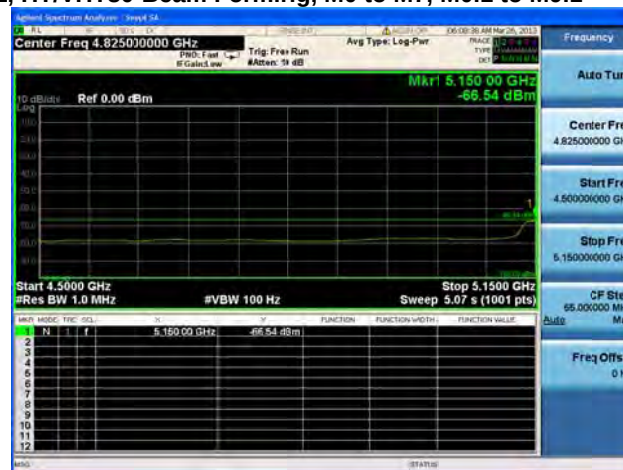
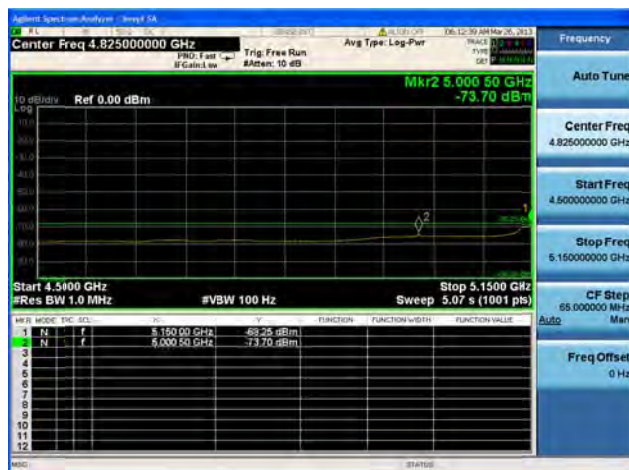
Mkt2 4.898 85 GHz
 -72.48 dBm

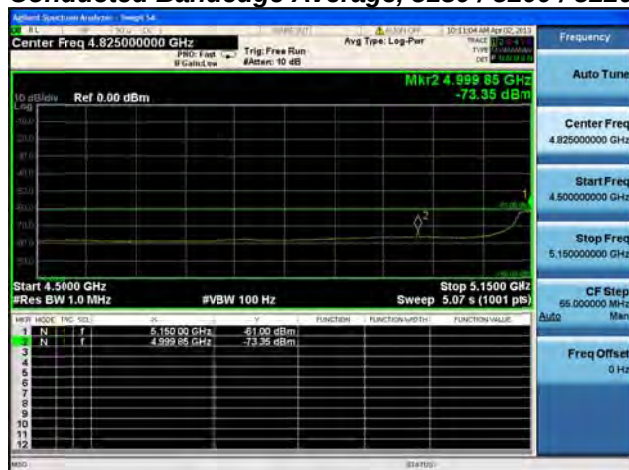
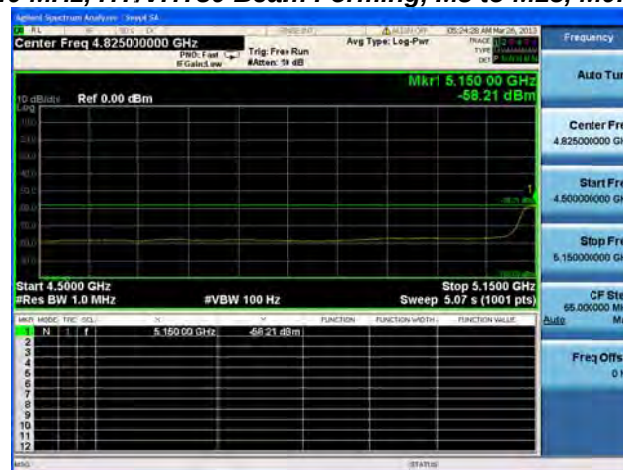
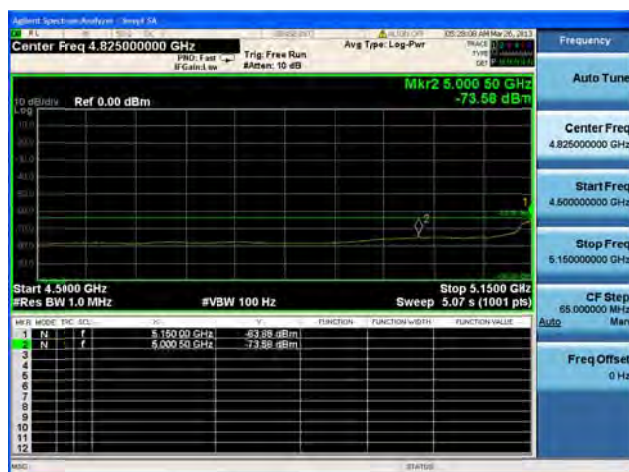
10 dB/div Ref 0.00 dBm
 Start 4.5000 GHz
 #Res BW 1.0 MHz
 #VBW 100 Hz
 Stop 5.1500 GHz
 Sweep 5.07 s (1001 pb)

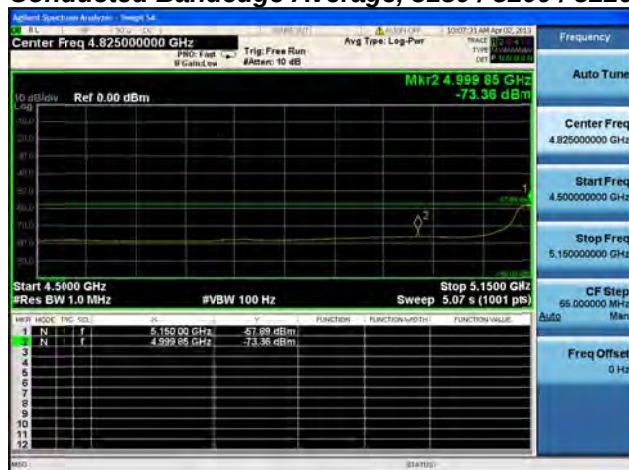
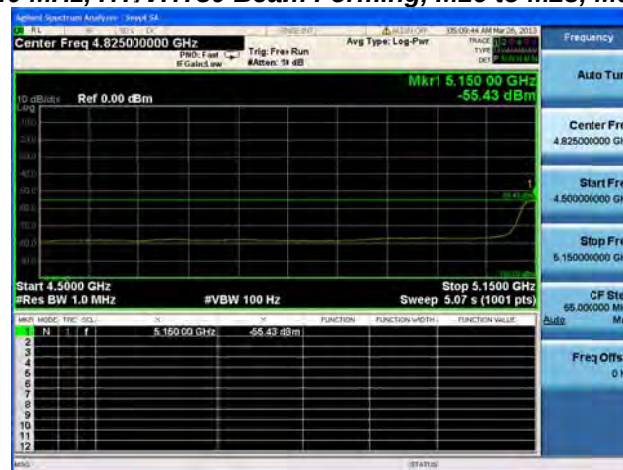
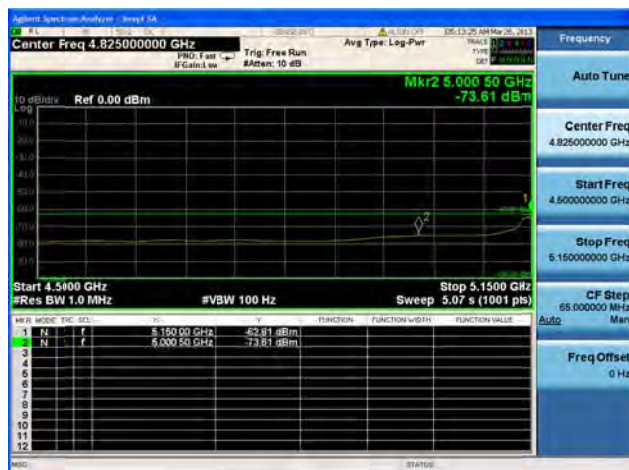
Wrt	Mode	Freq	Mag	Function	Function Value	Function Value
1	N	4.150 00 GHz	-61.99 dBm			
2	N	4.999 85 GHz	-72.48 dBm			
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

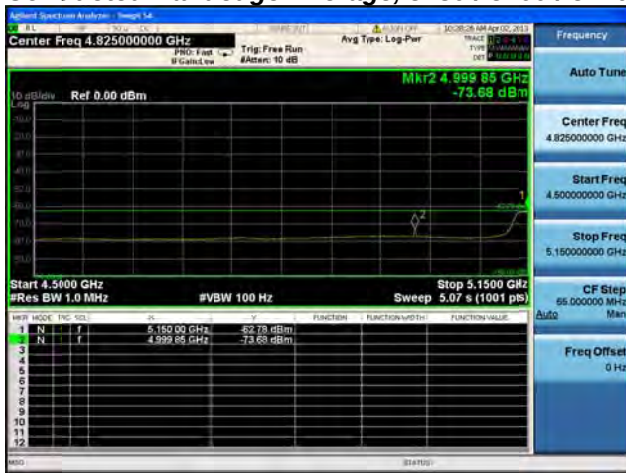
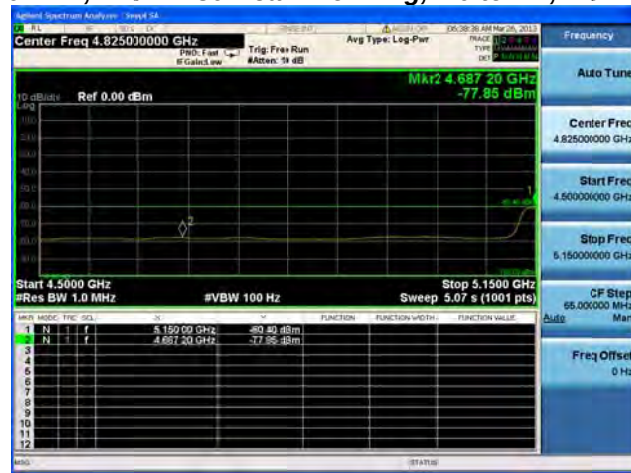
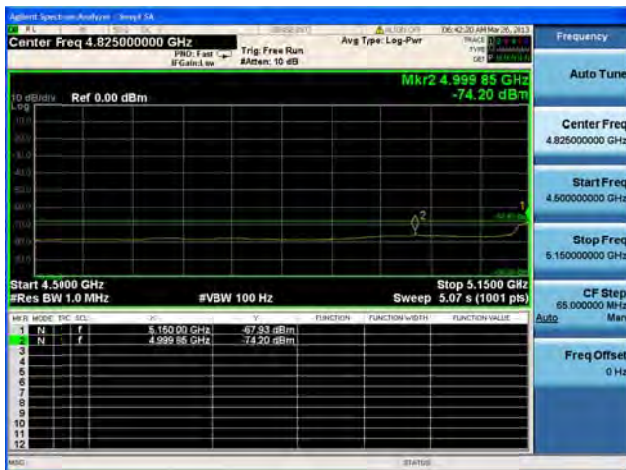
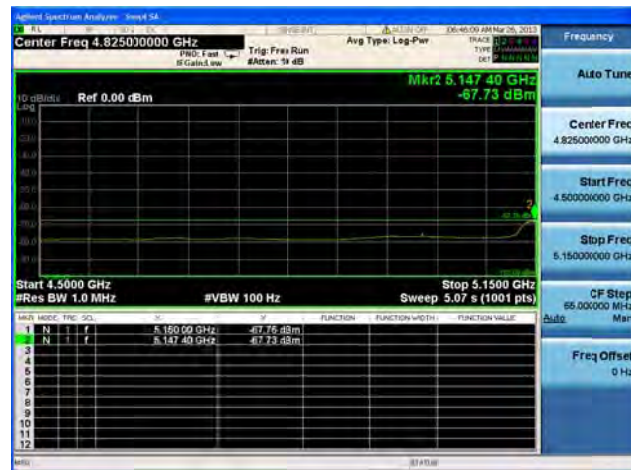
Freq Offset 0 GHz

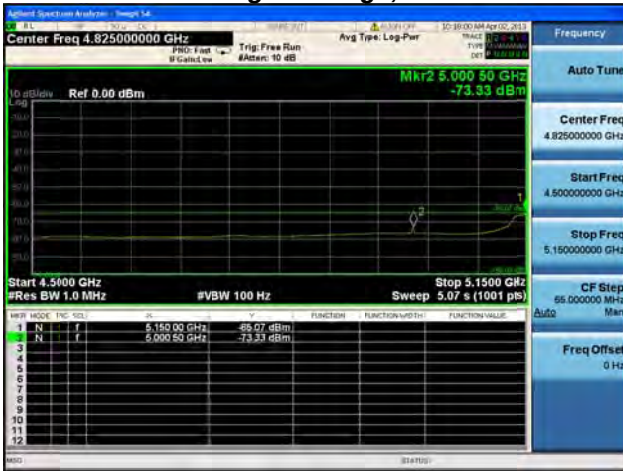
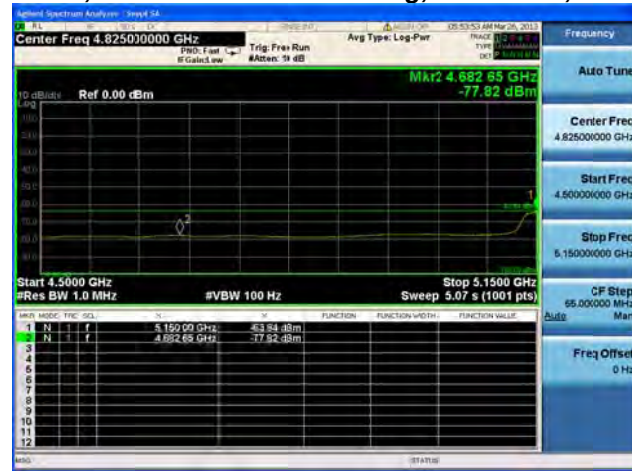
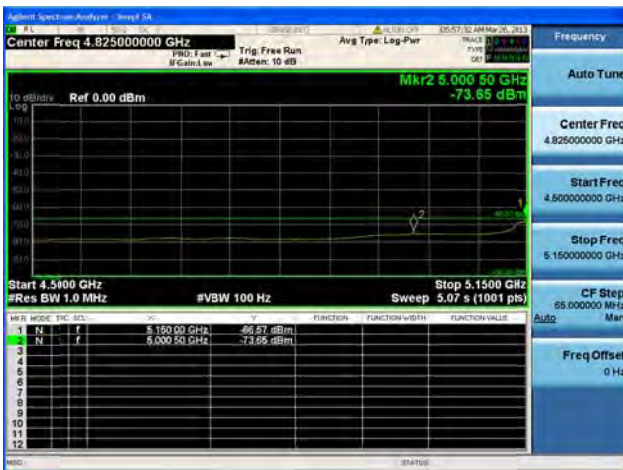
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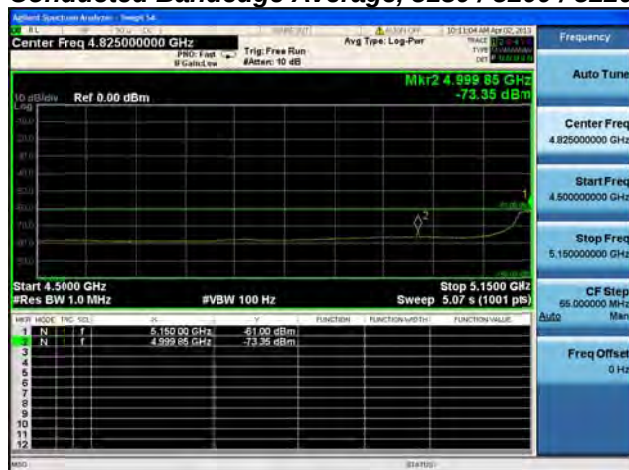
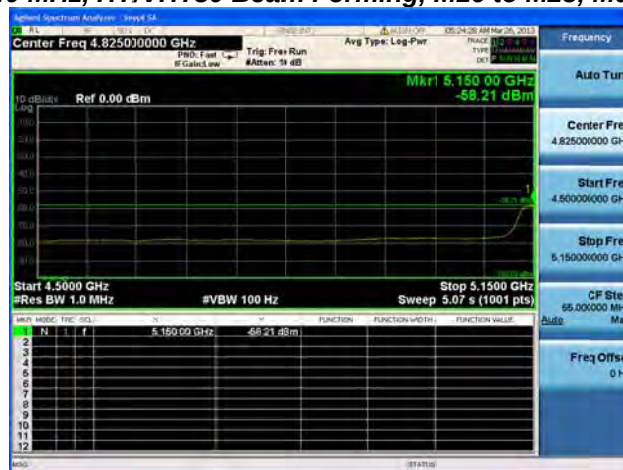
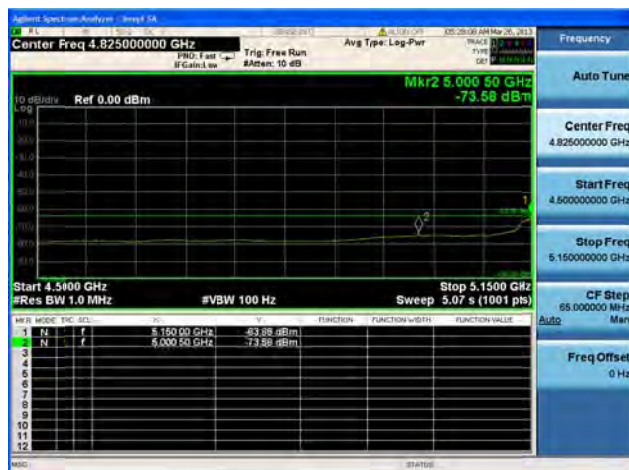
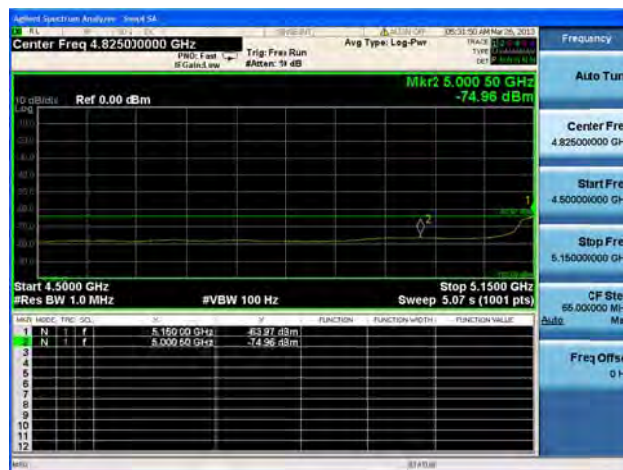
Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

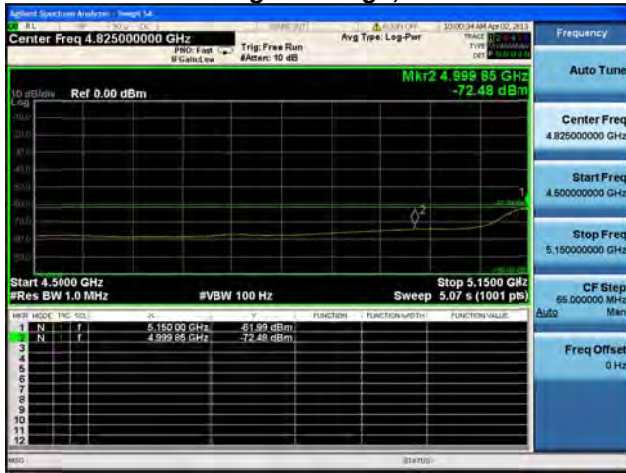
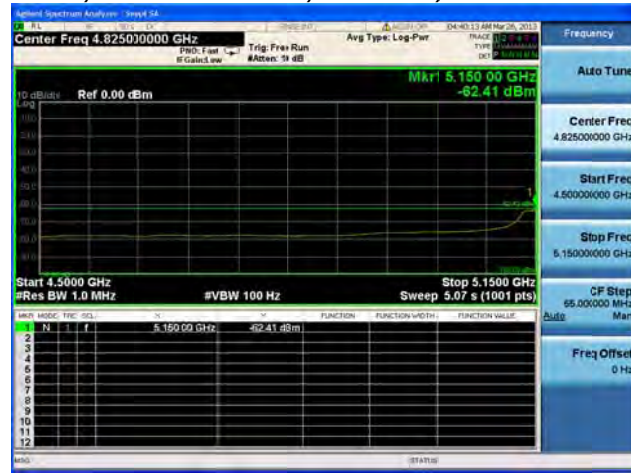
**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

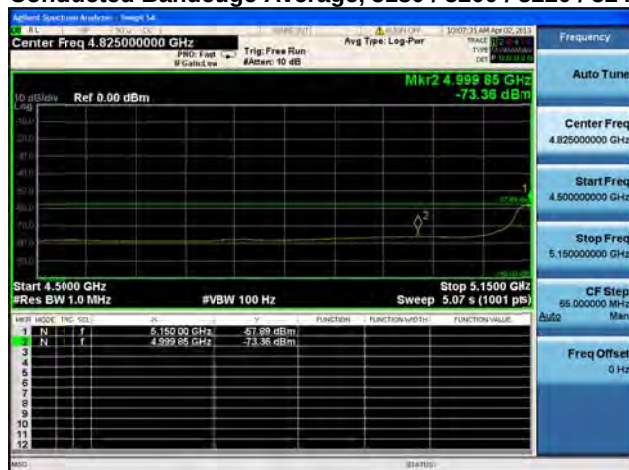
**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

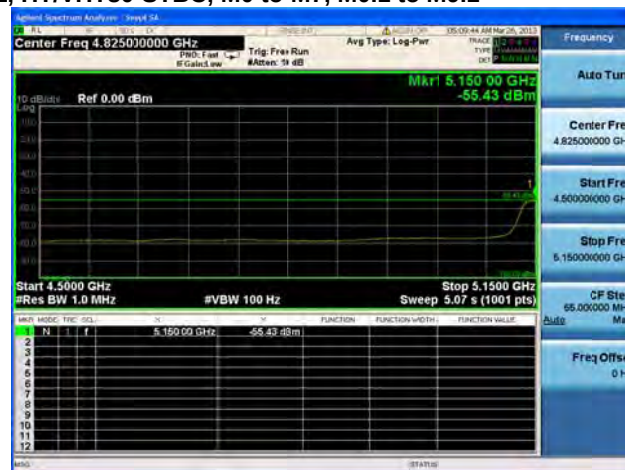
**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

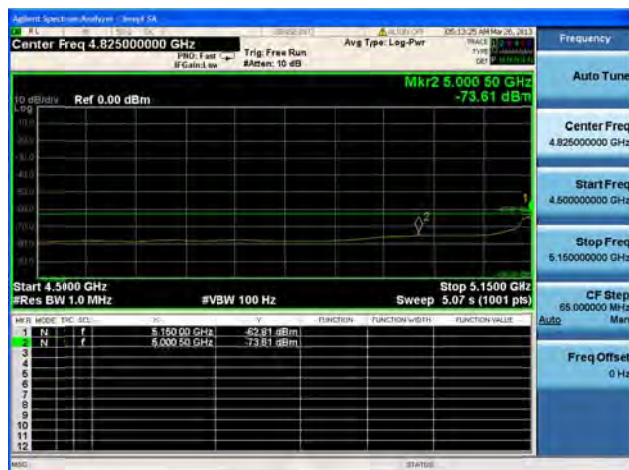
Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1



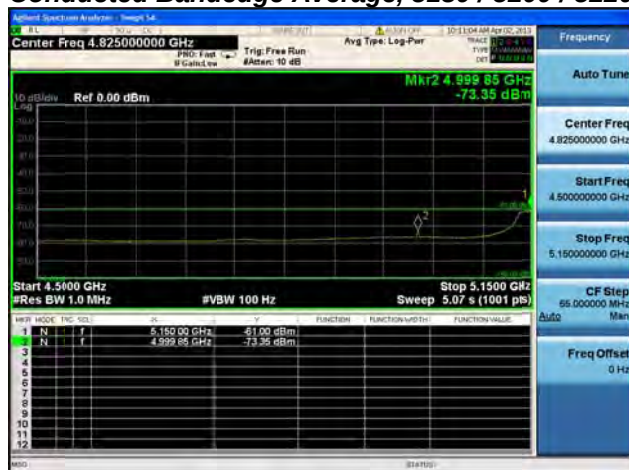
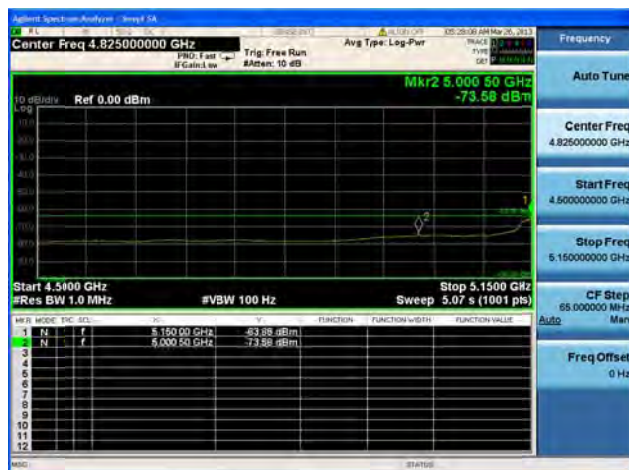
Antenna A

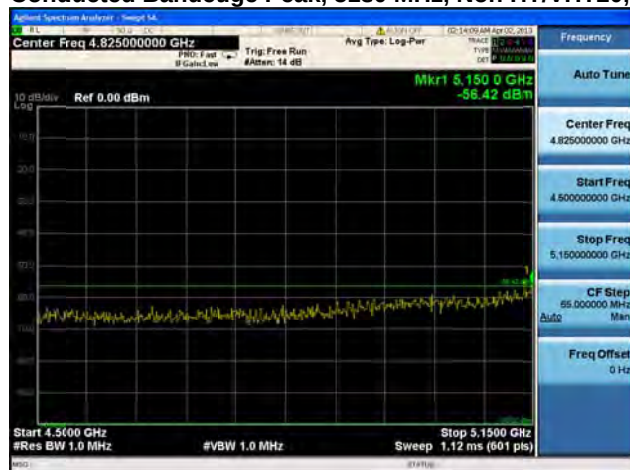


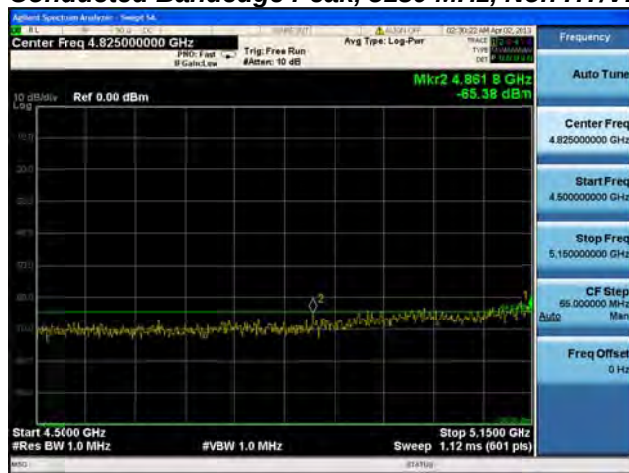
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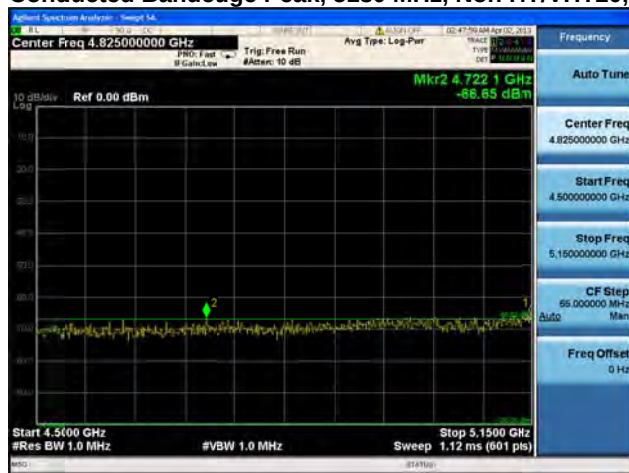
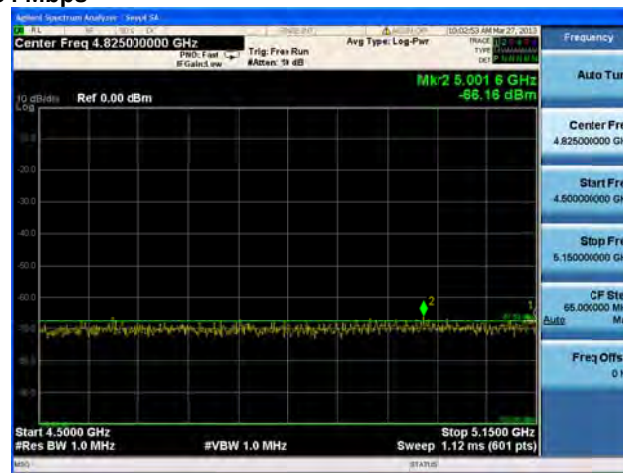


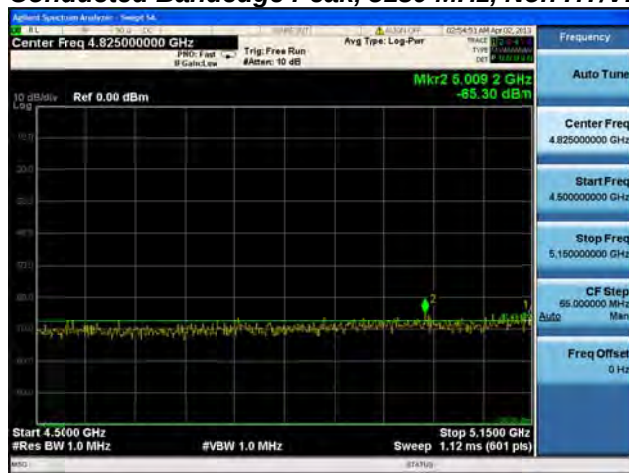
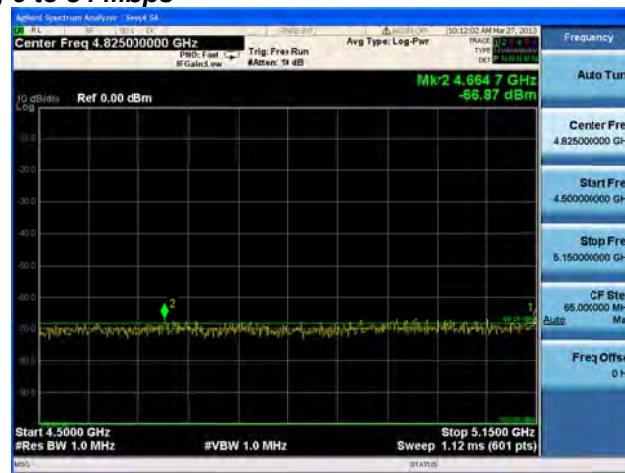
Antenna C

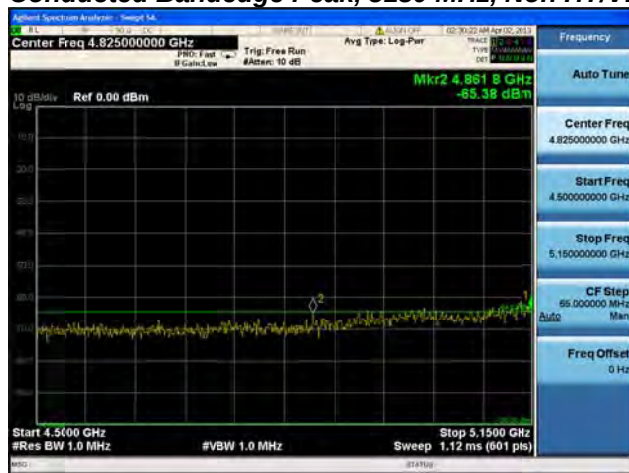
Conducted Bandedge Average, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

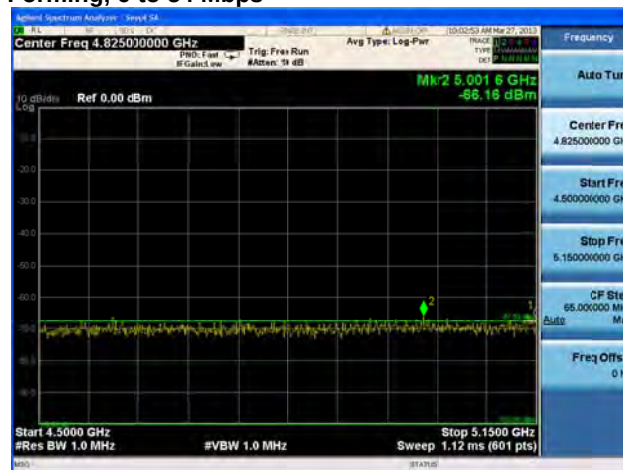
Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A**

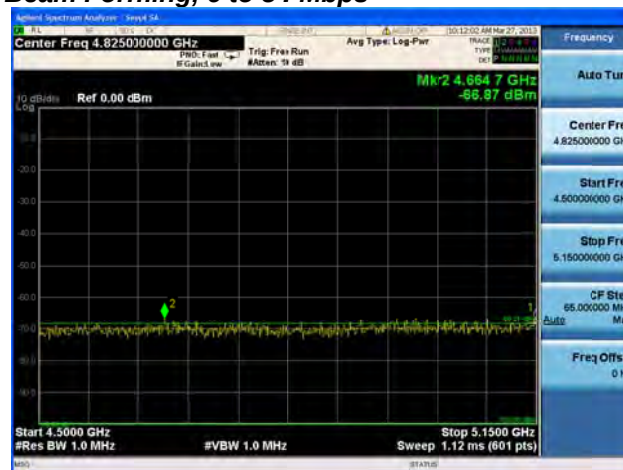
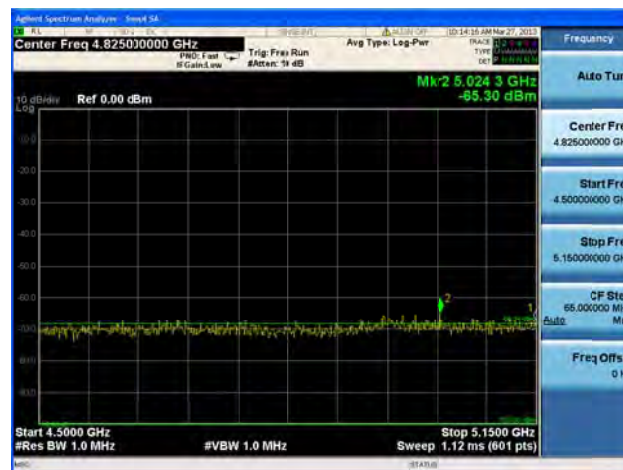
Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B**

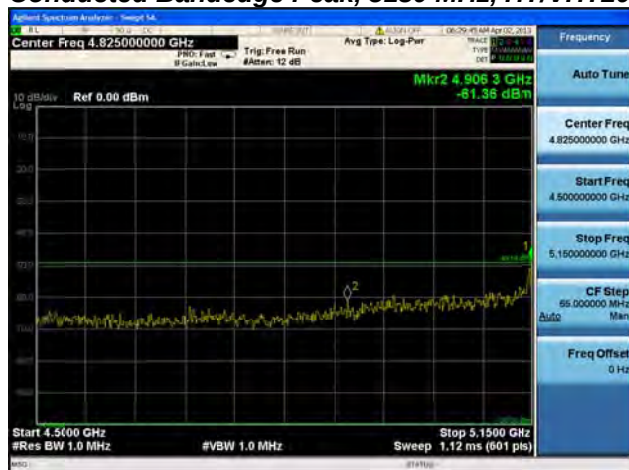
Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

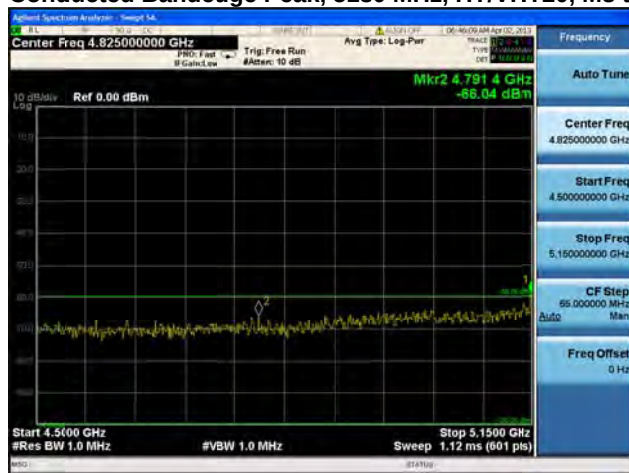
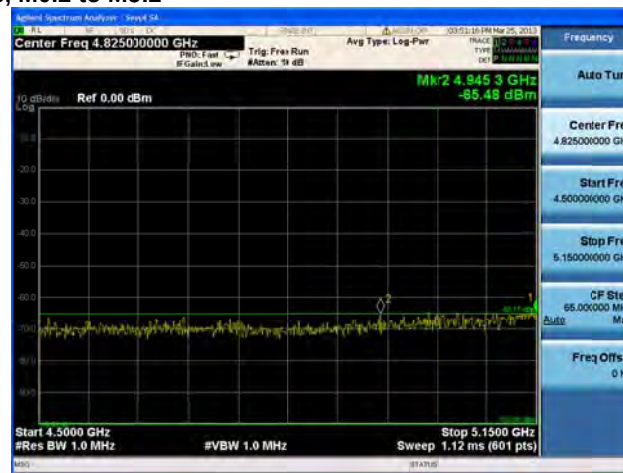
**Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B**

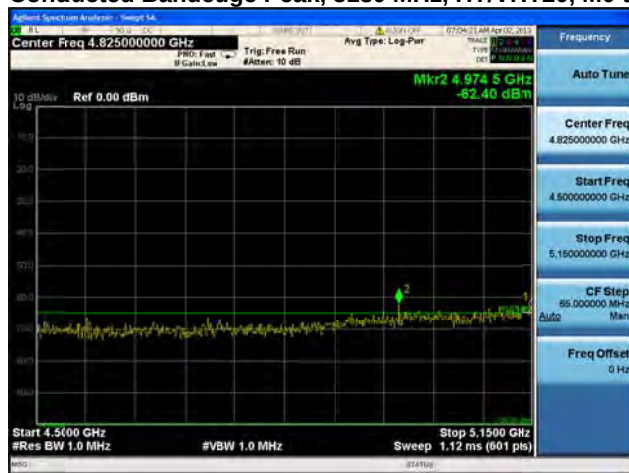
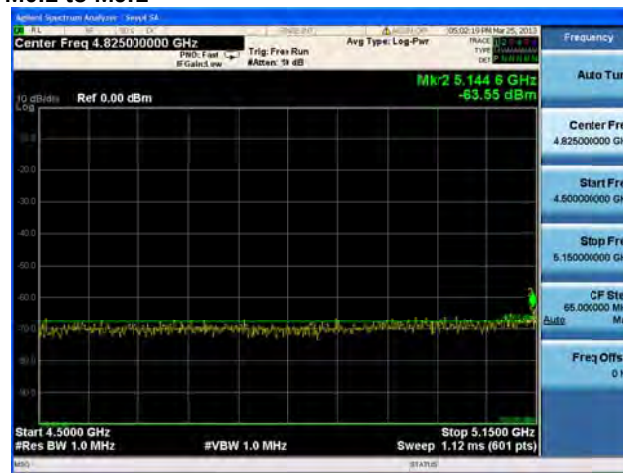
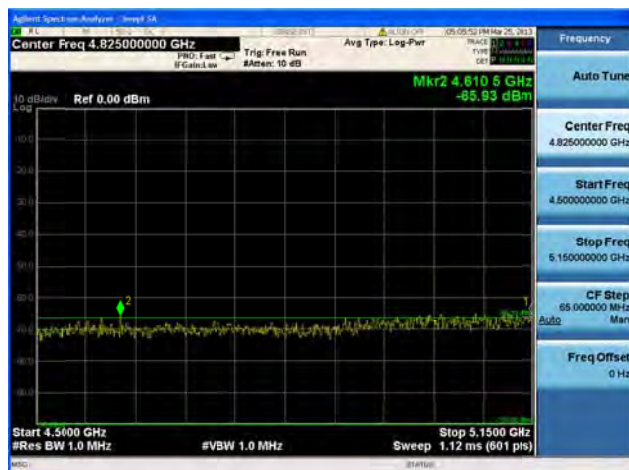
Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5180 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

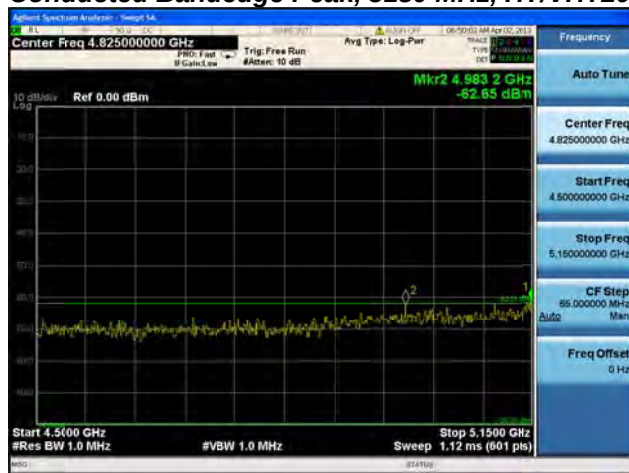
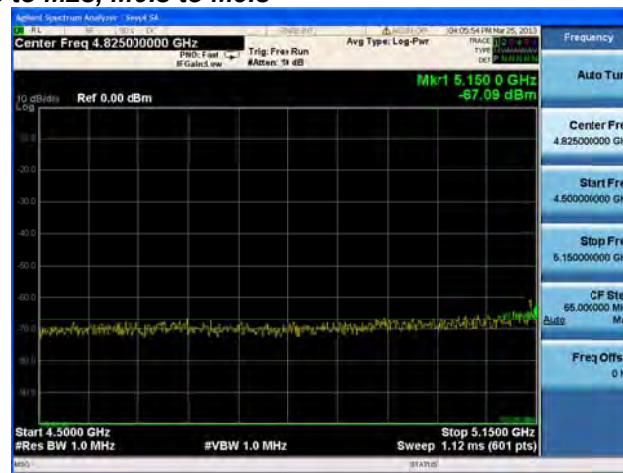
Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A**

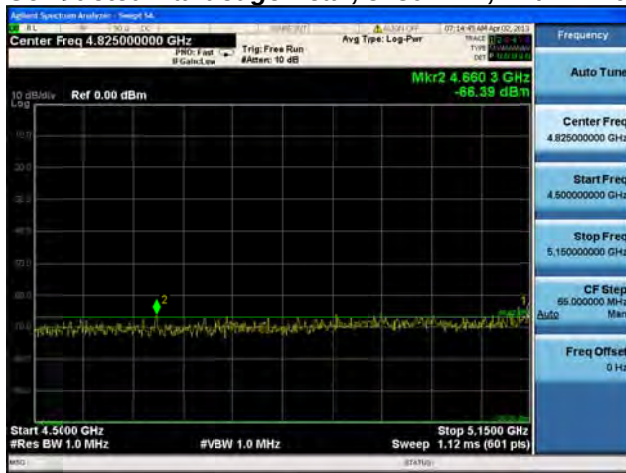
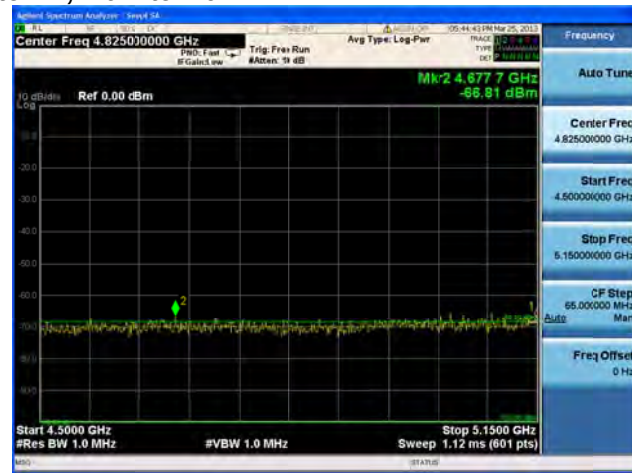
**Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

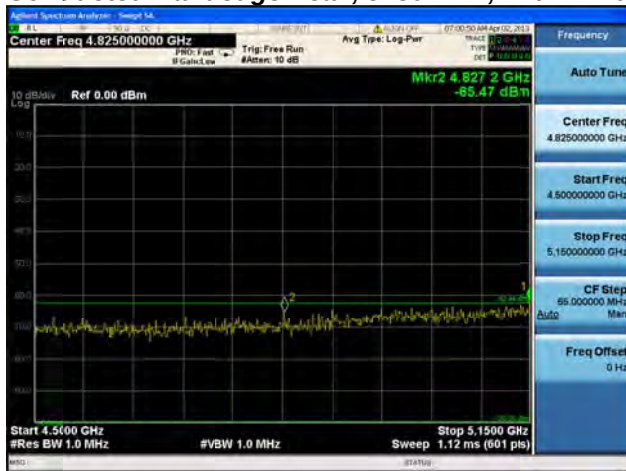
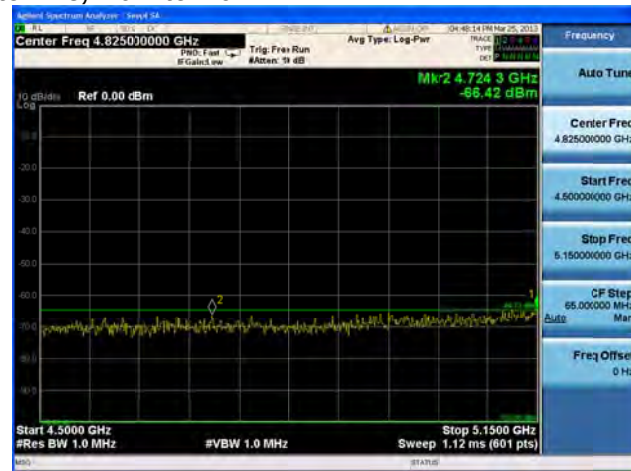
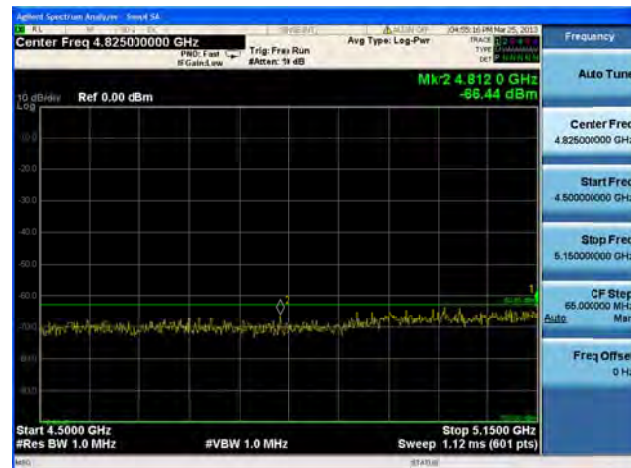
**Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

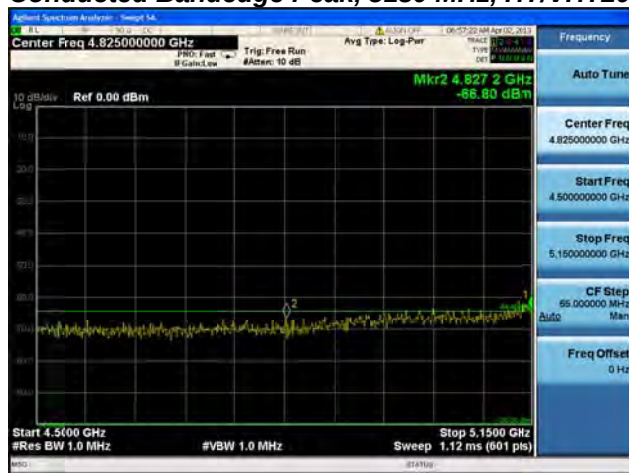
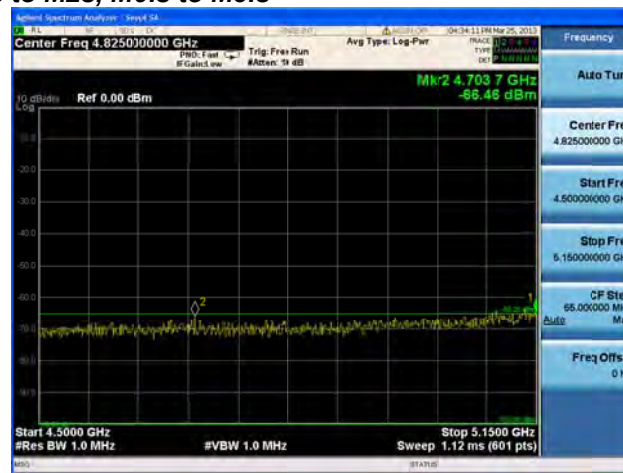
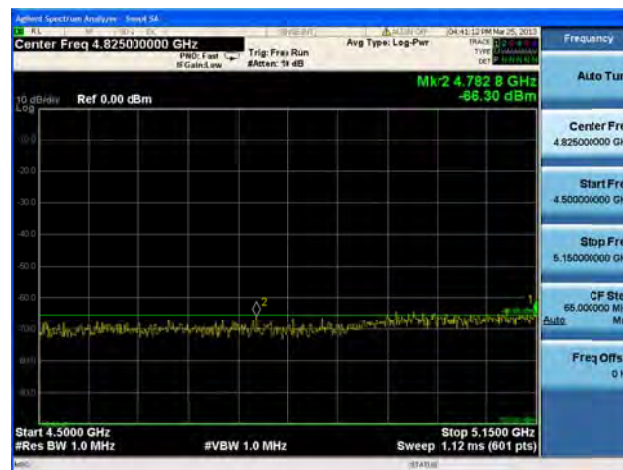
Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

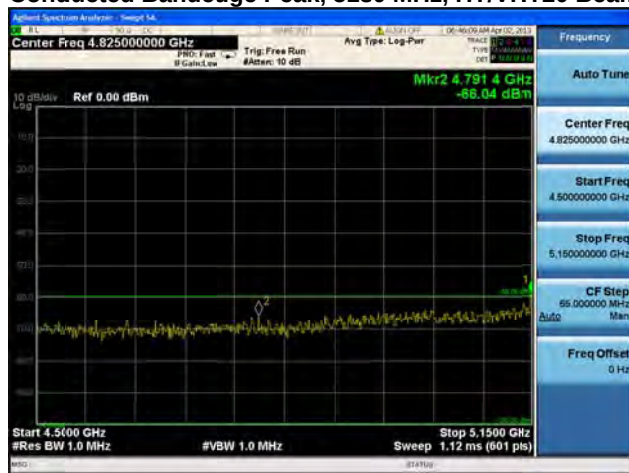
Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

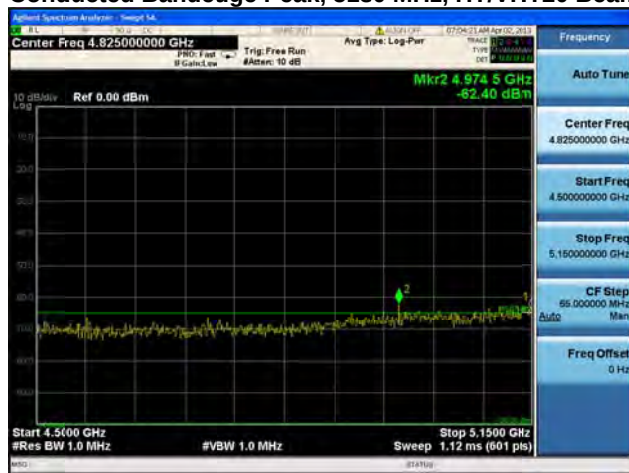
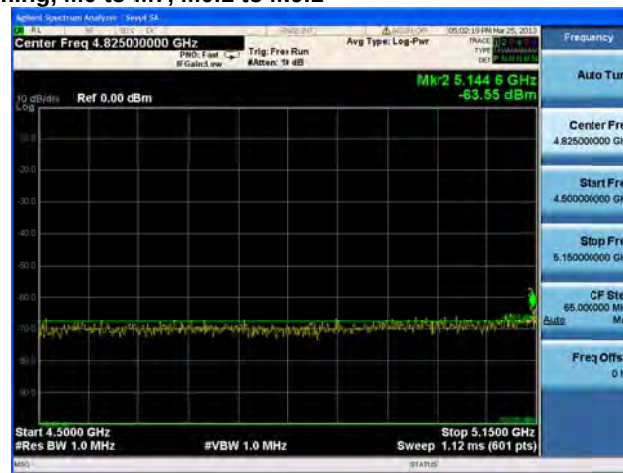
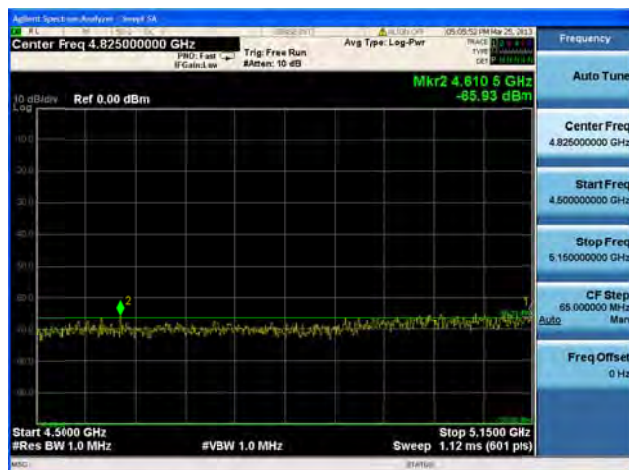
**Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

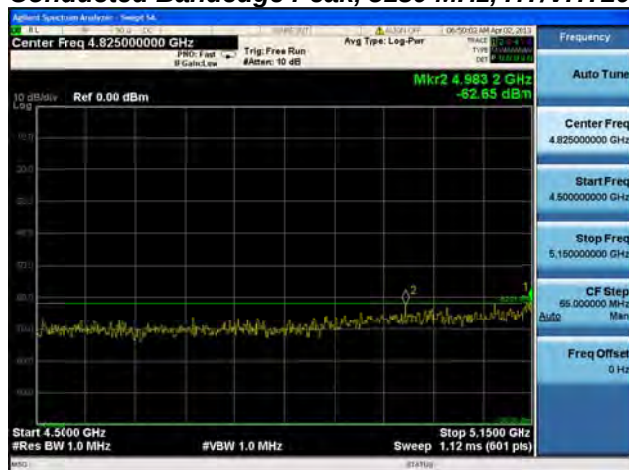
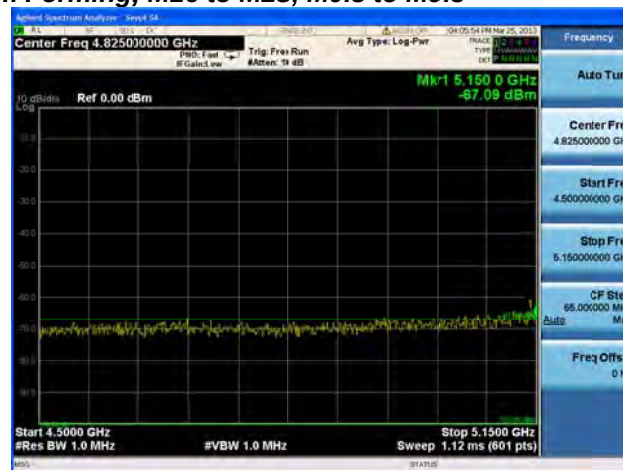
Conducted Bandedge Peak, 5180 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

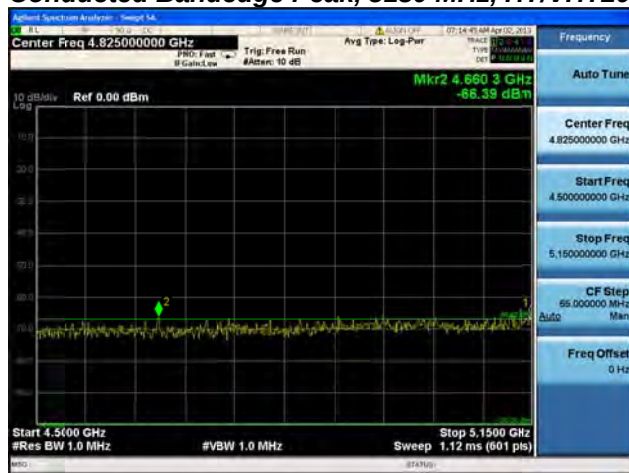
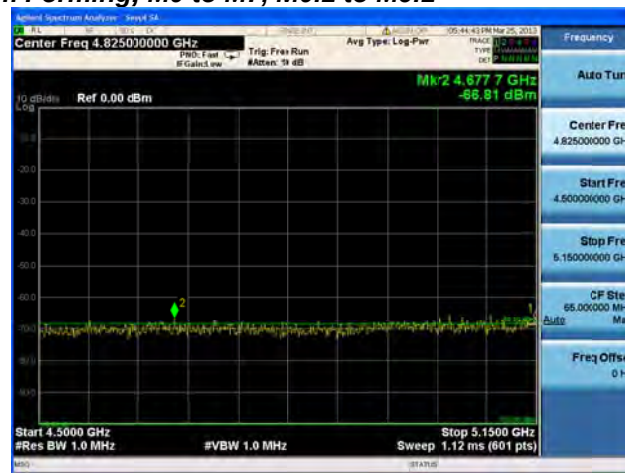
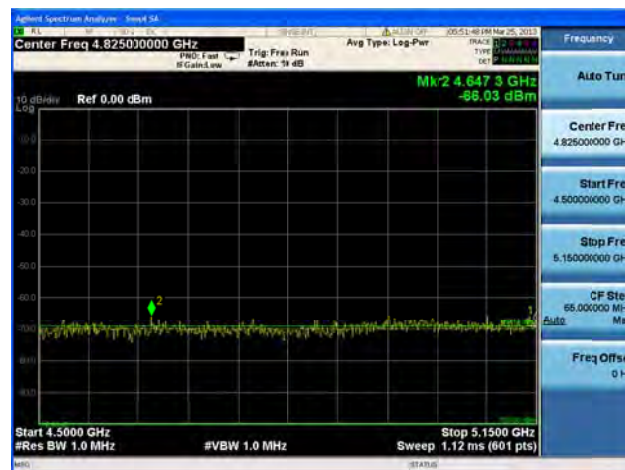
**Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

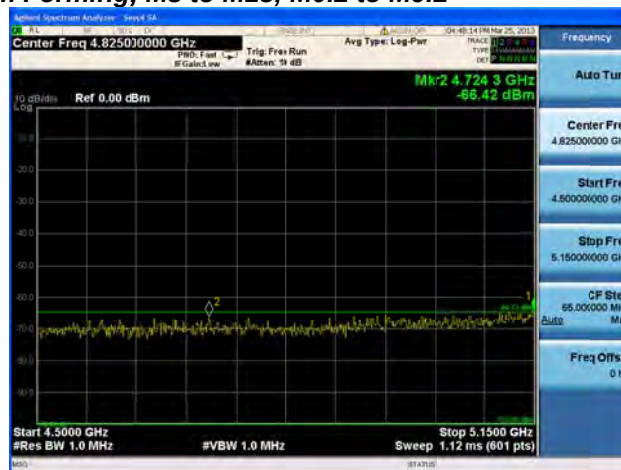
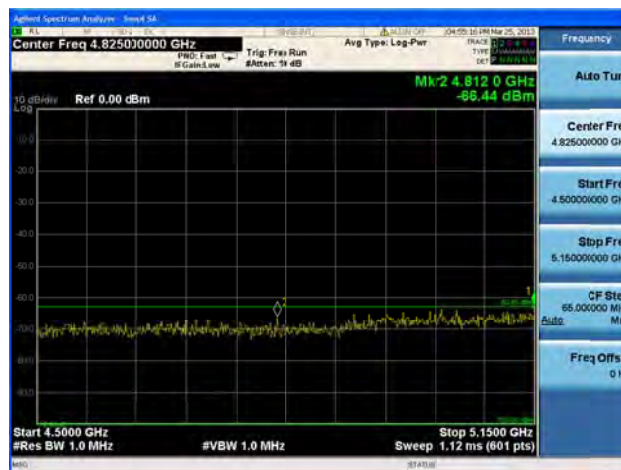
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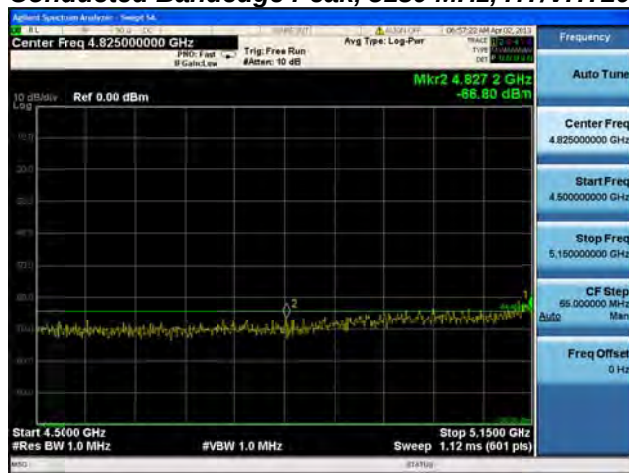
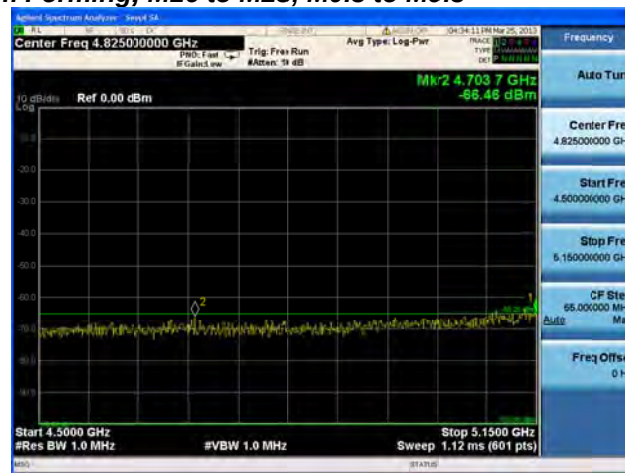
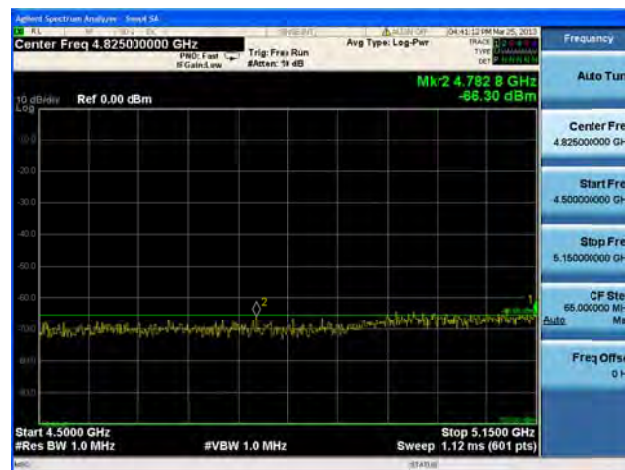
Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

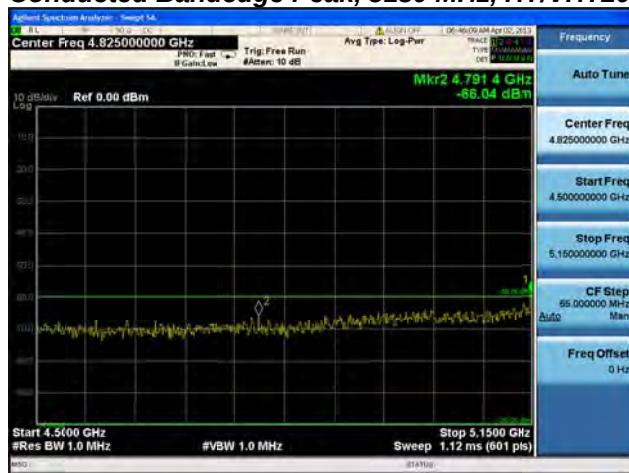
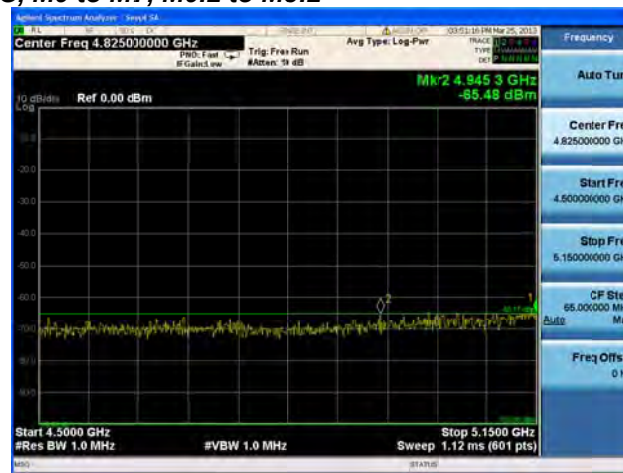
Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

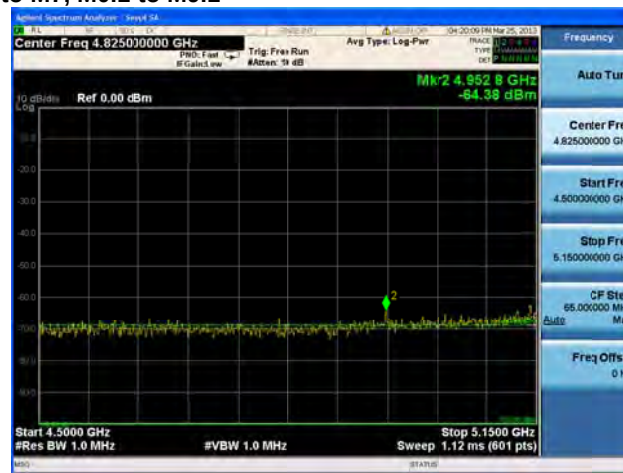
Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

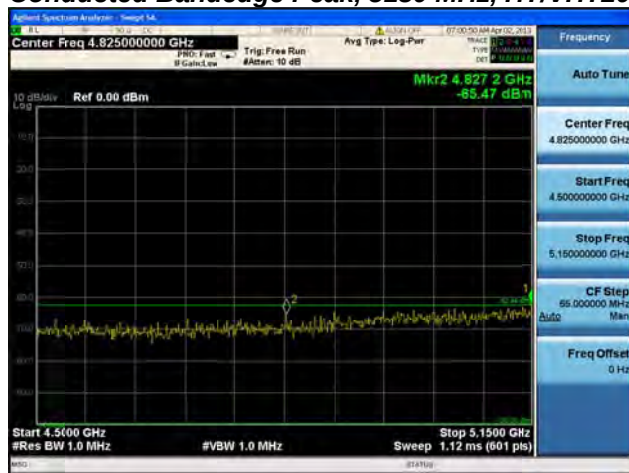
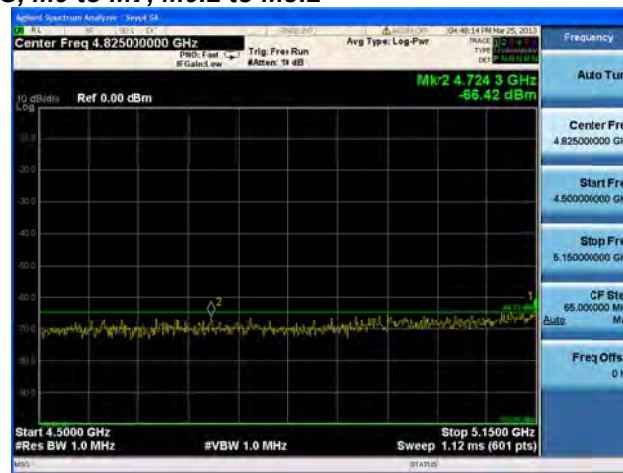
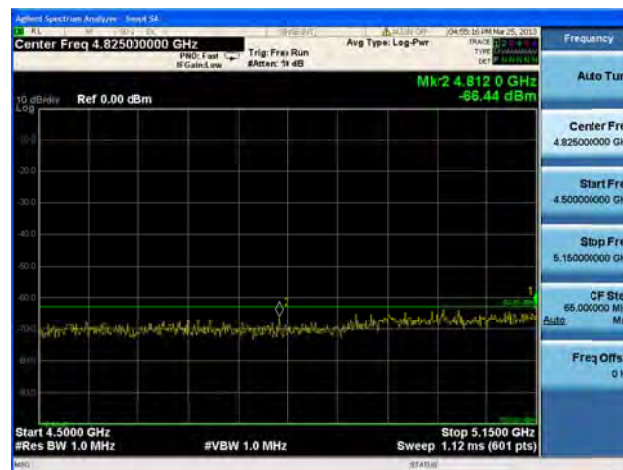
Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

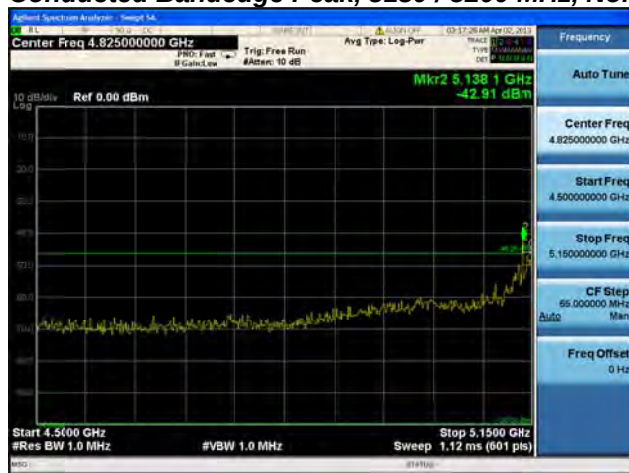
Conducted Bandedge Peak, 5180 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

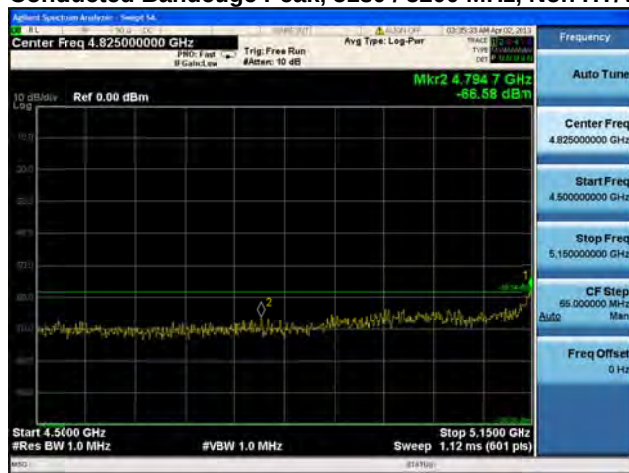
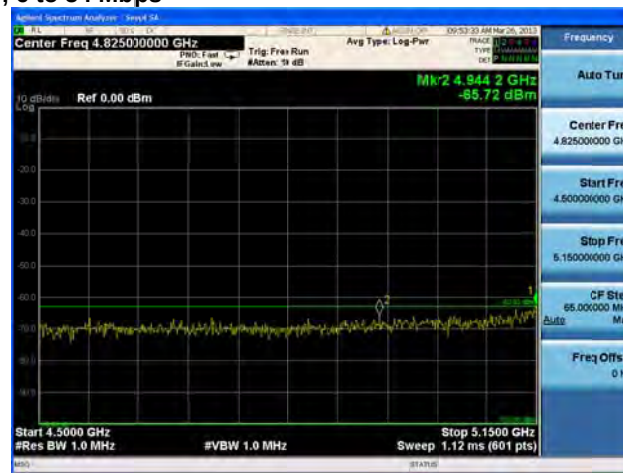
**Conducted Bandedge Peak, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

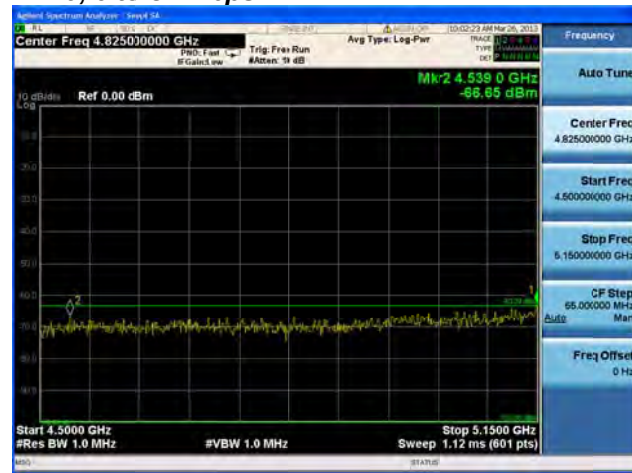
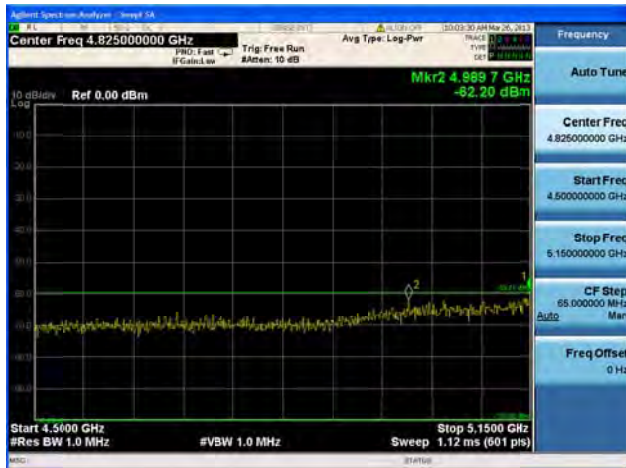
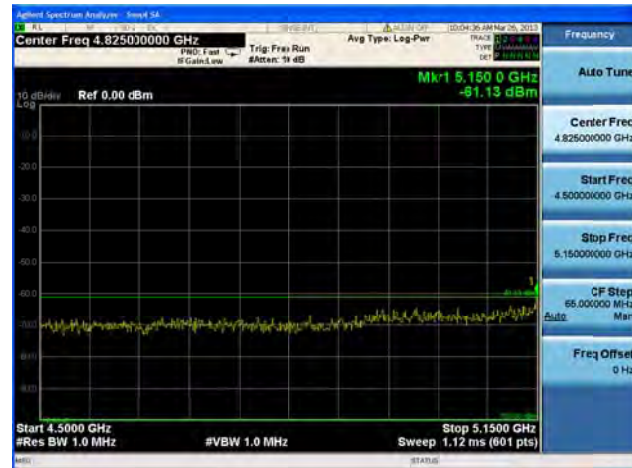
Conducted Bandedge Peak, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5180 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

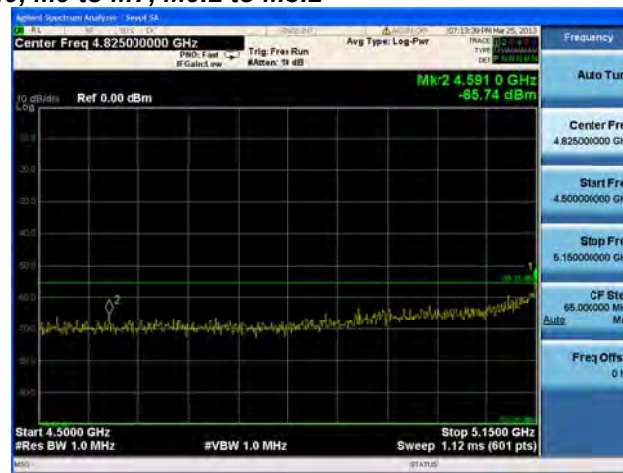
Conducted Bandedge Peak, 5180 / 5200 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A**

**Conducted Bandedge Peak, 5180 / 5200 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A****Antenna B**

**Conducted Bandedge Peak, 5180 / 5200 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Peak, 5180 / 5200 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

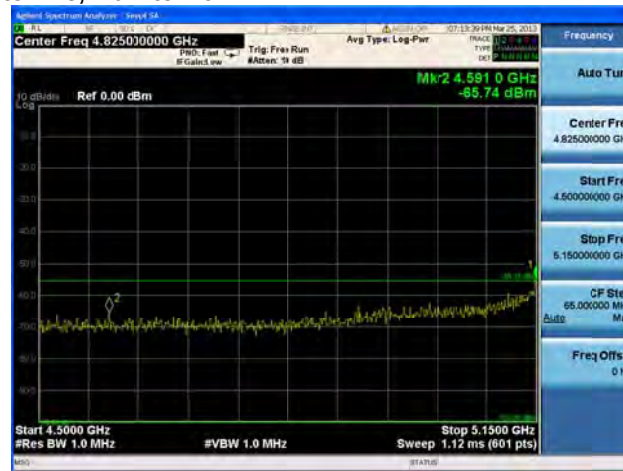
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A**

Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

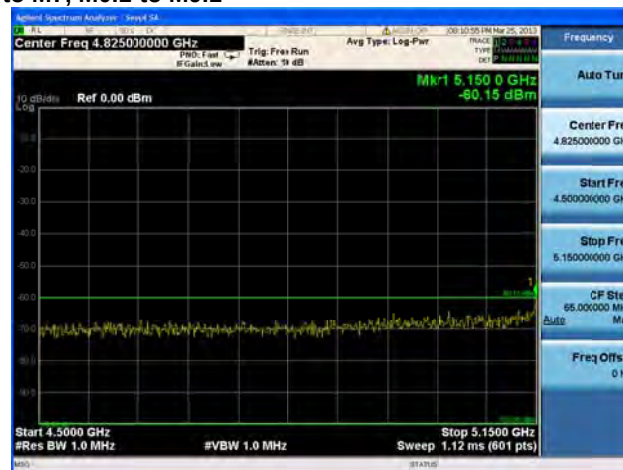
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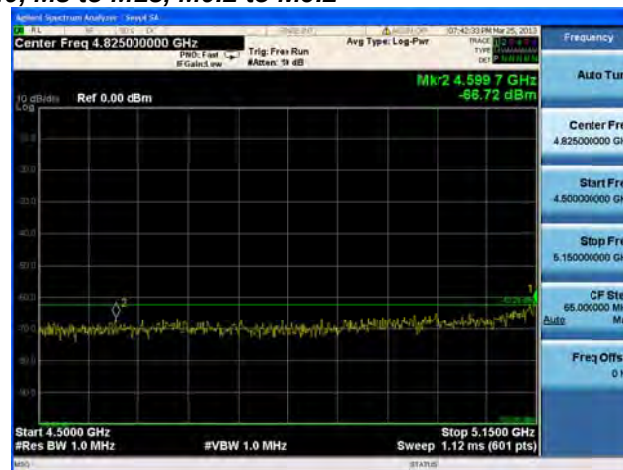


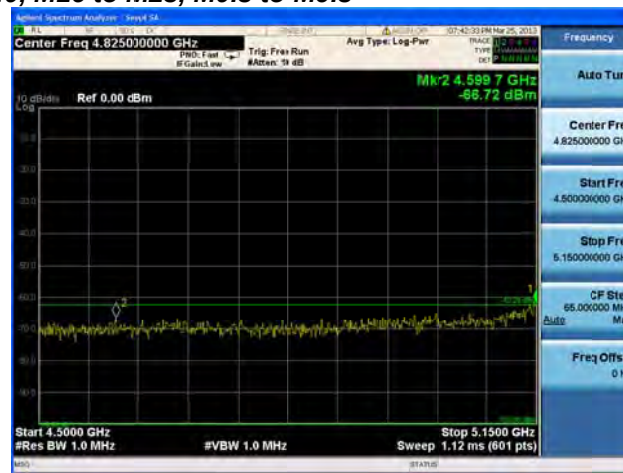
Antenna A

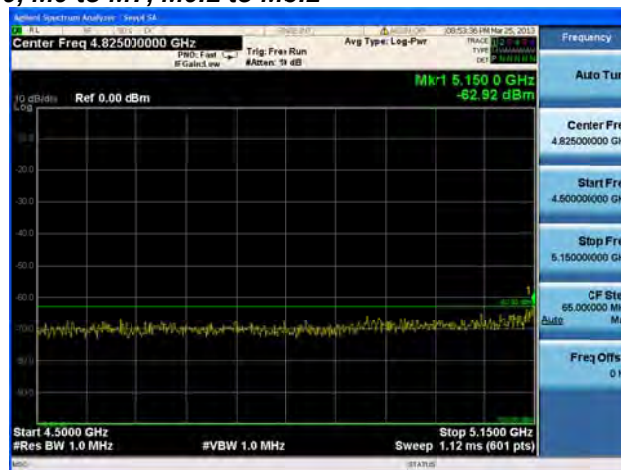
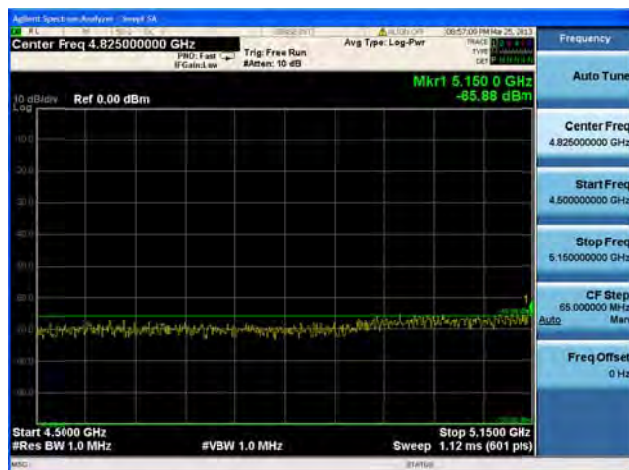


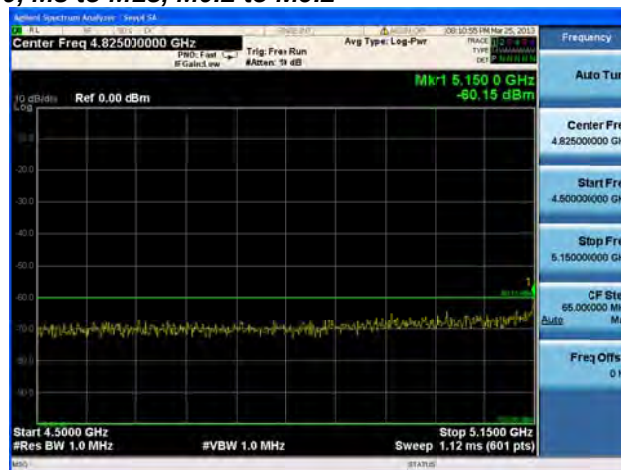
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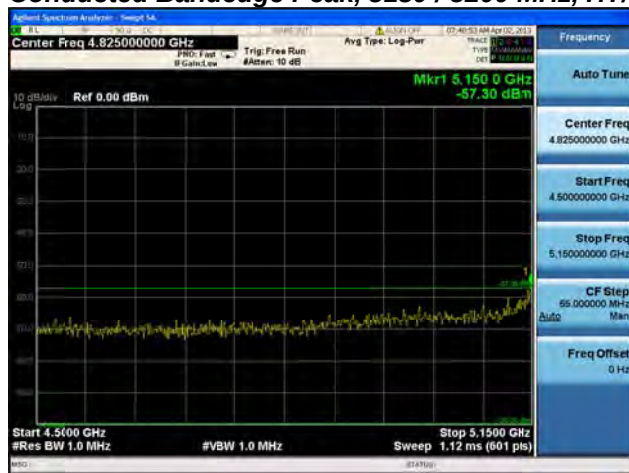
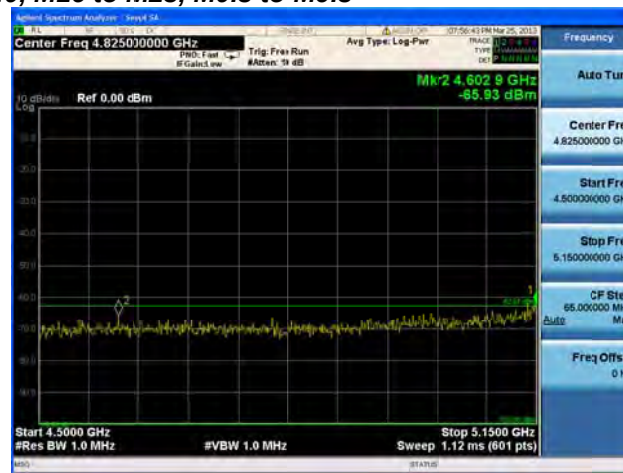
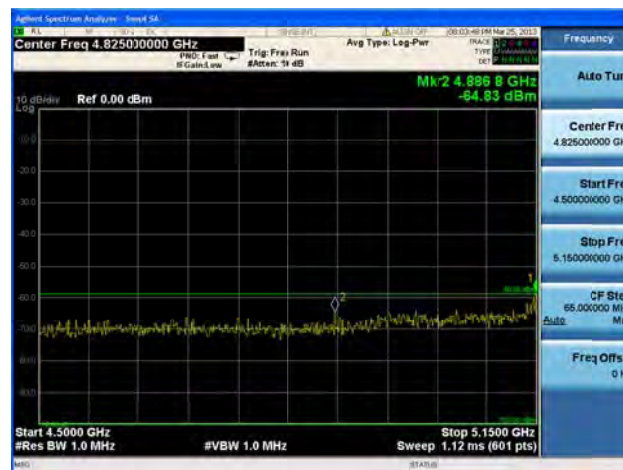
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

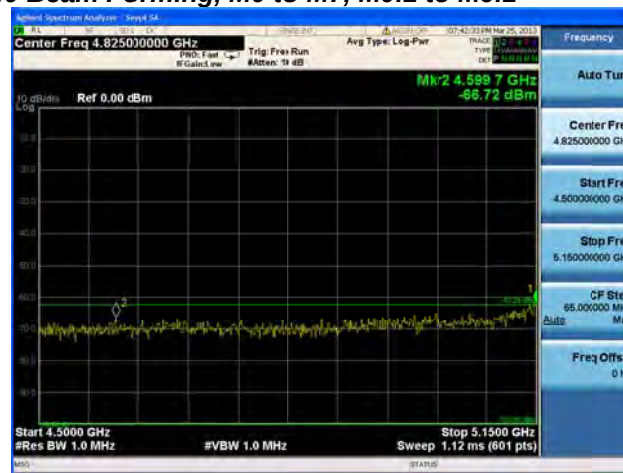
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

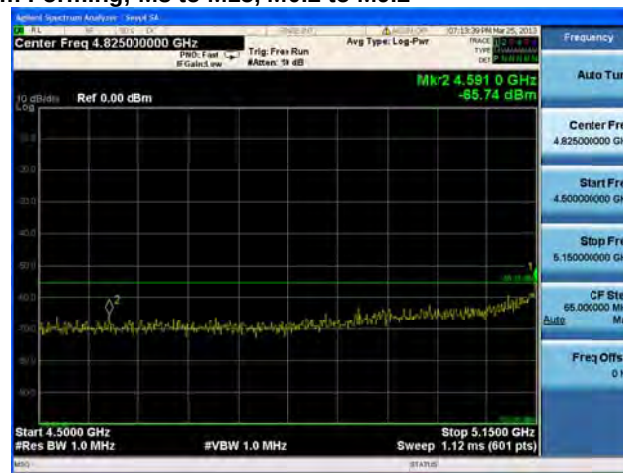
**Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

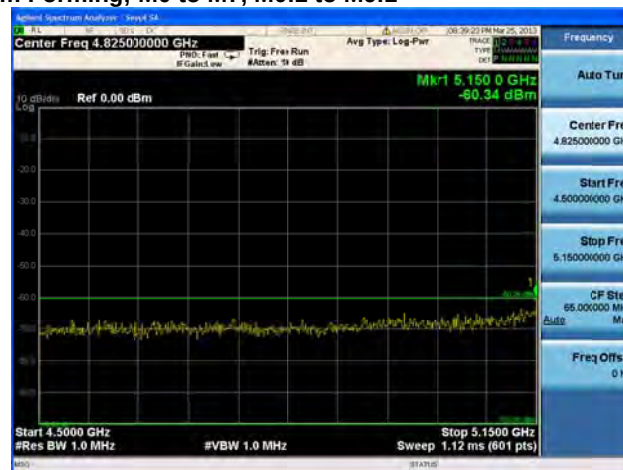
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

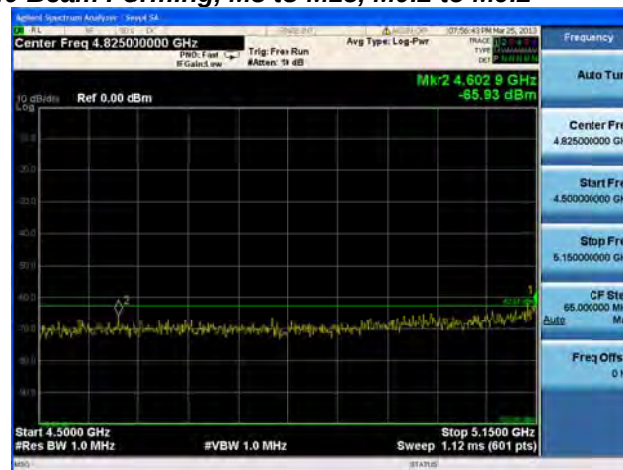
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

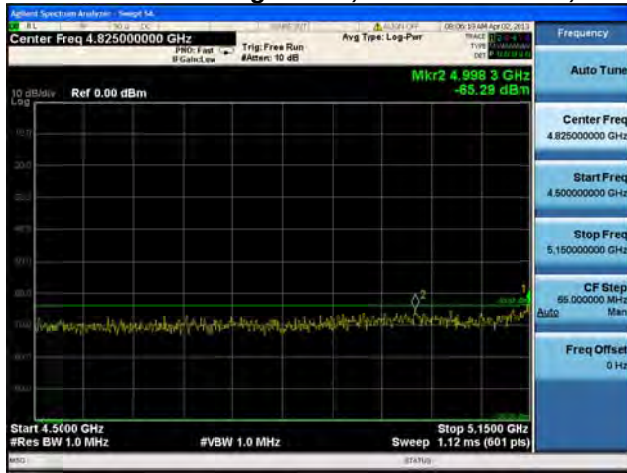
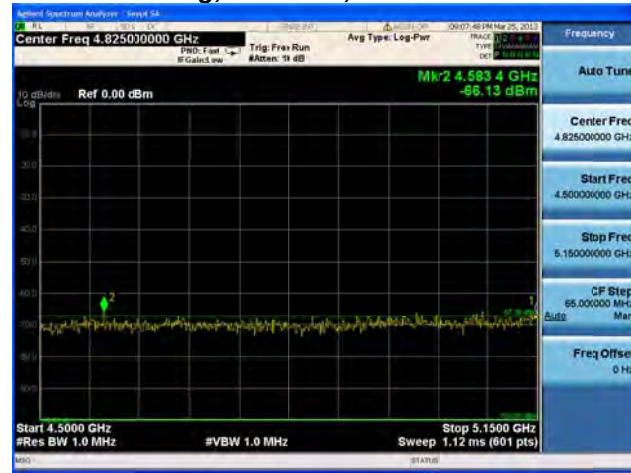
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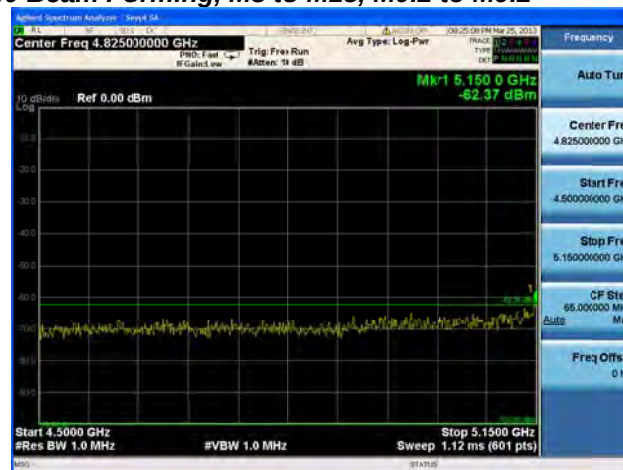
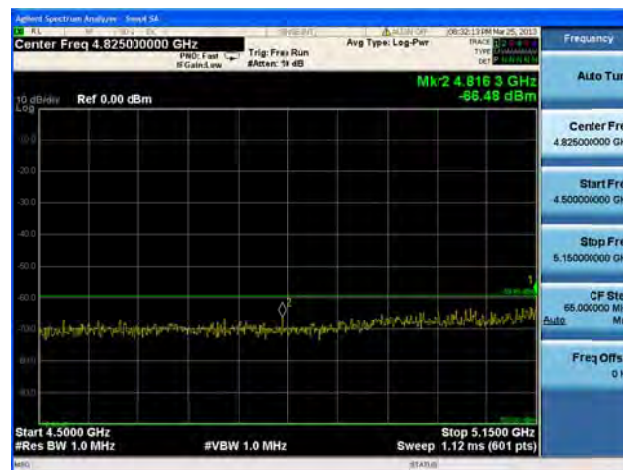
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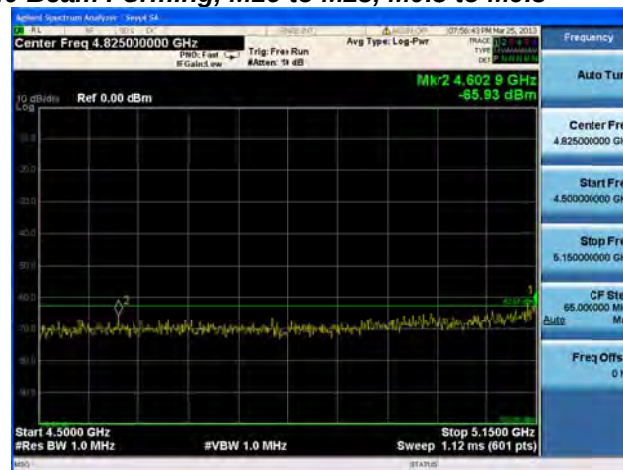
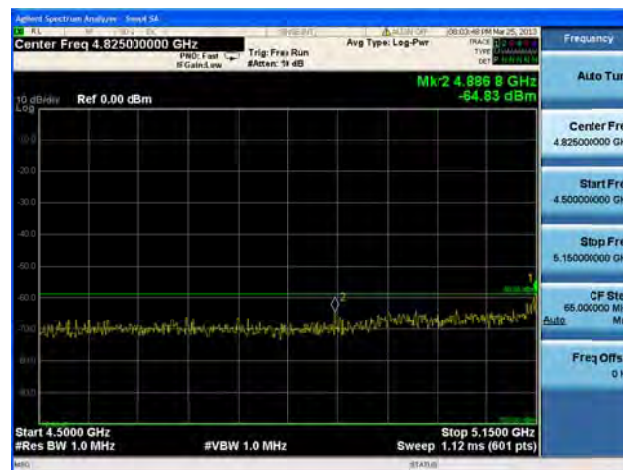
**Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

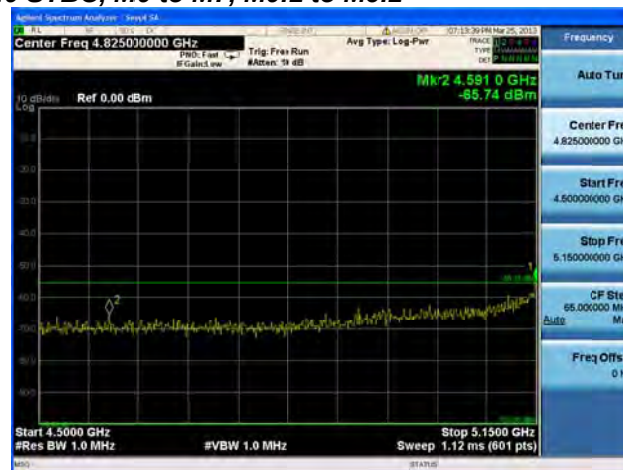
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

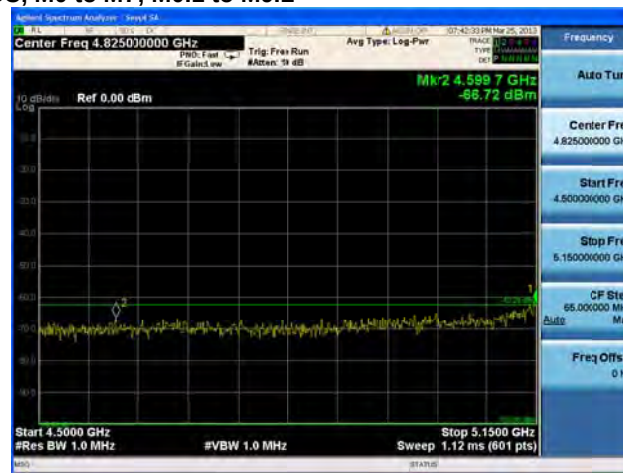
Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

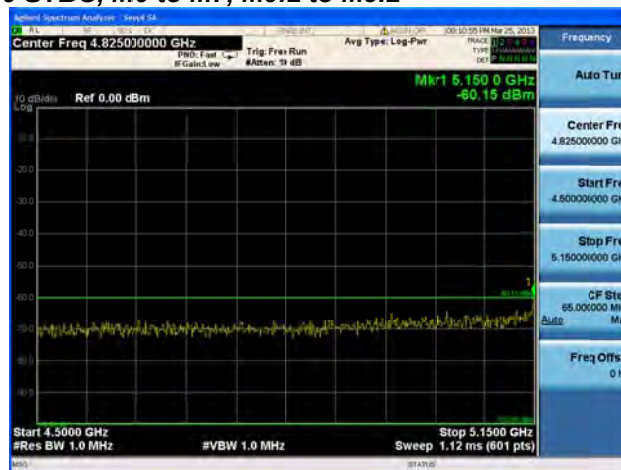
**Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

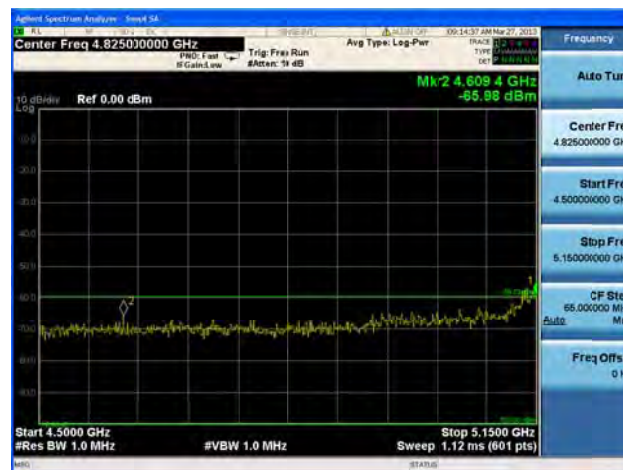
**Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5180 / 5200 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

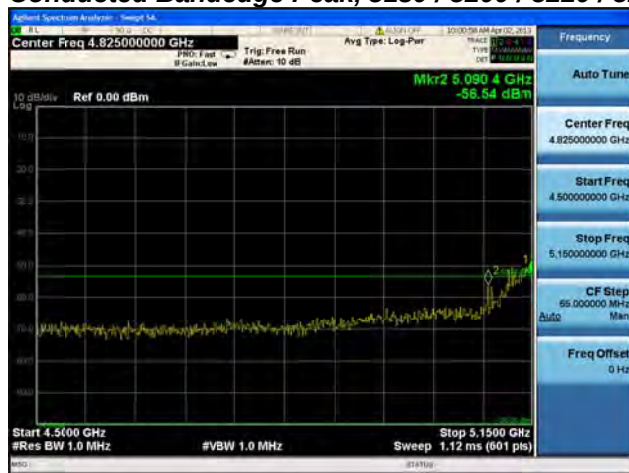
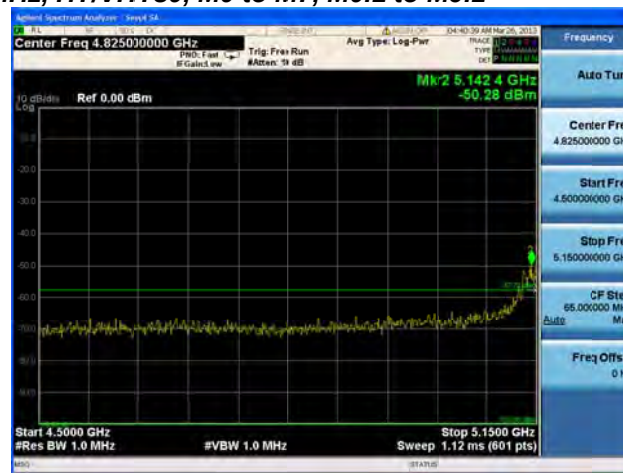
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A**

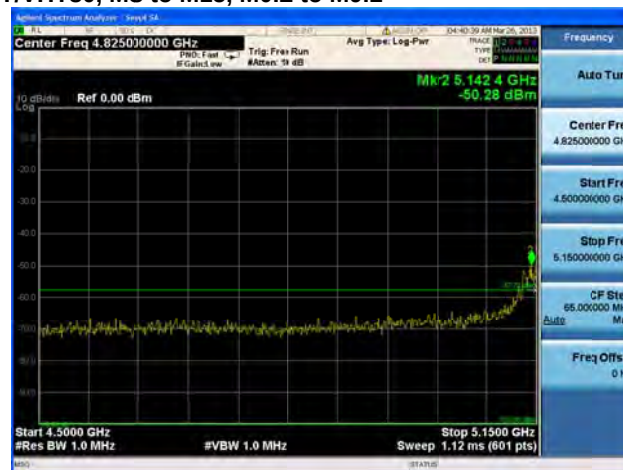
**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B**

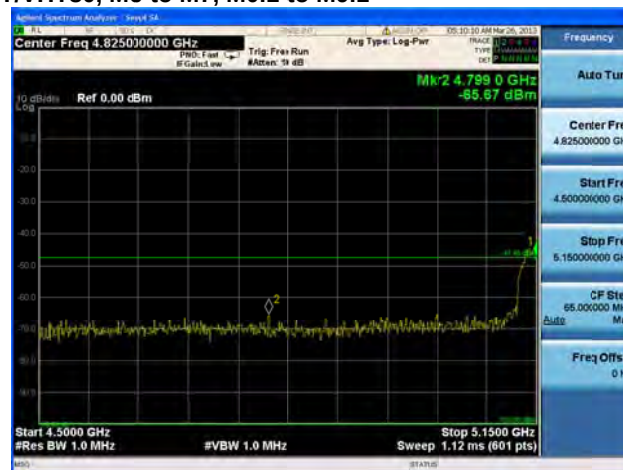
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

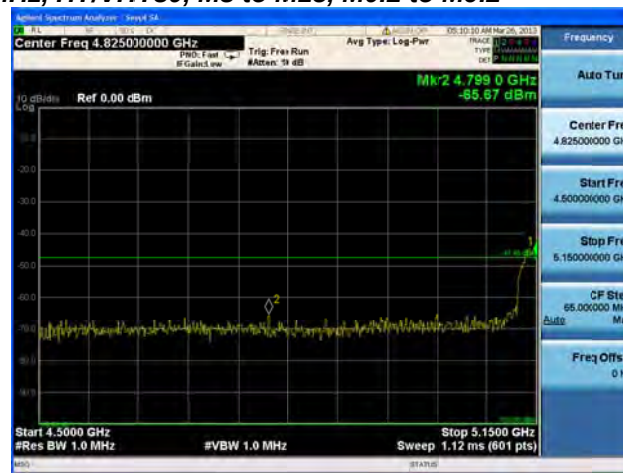
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

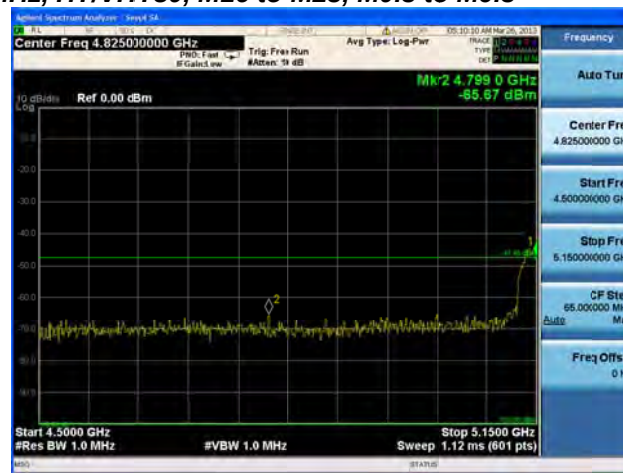
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A**

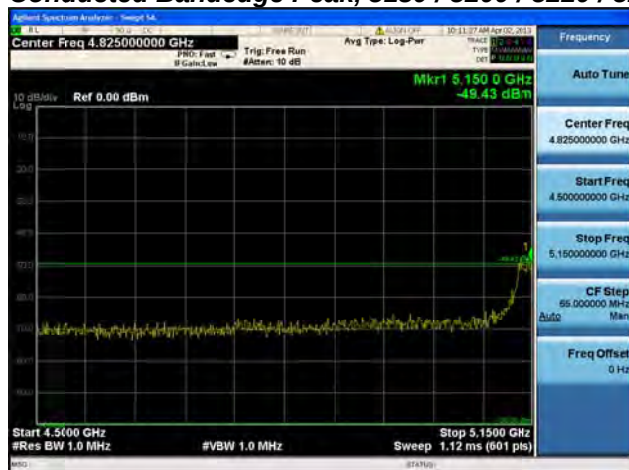
**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

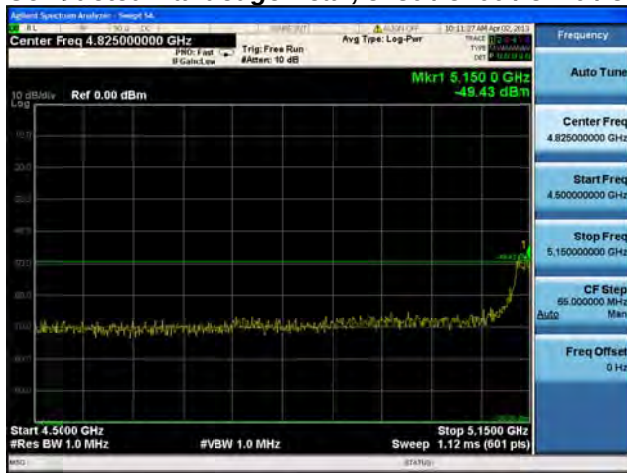
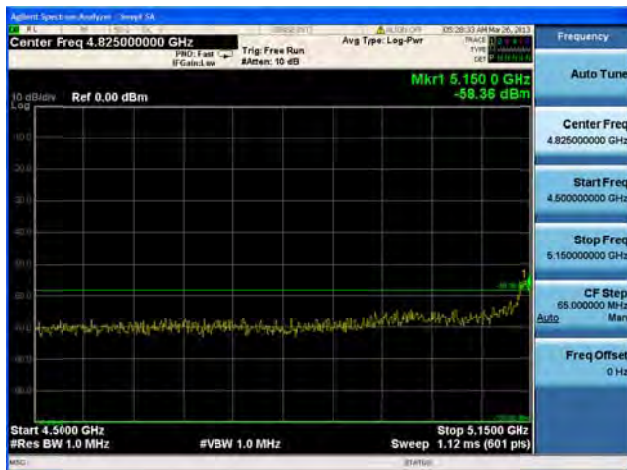
**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

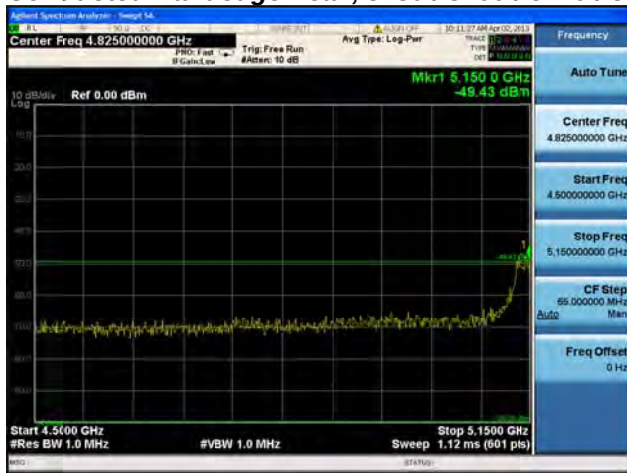
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

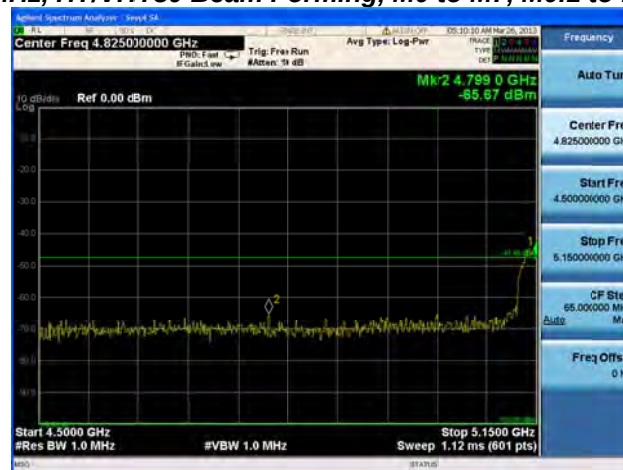
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

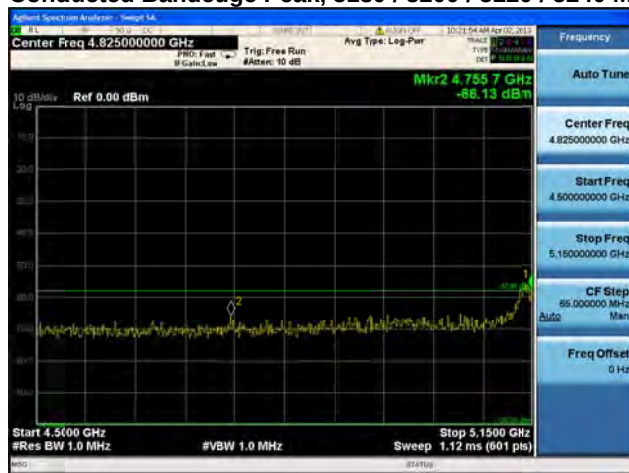
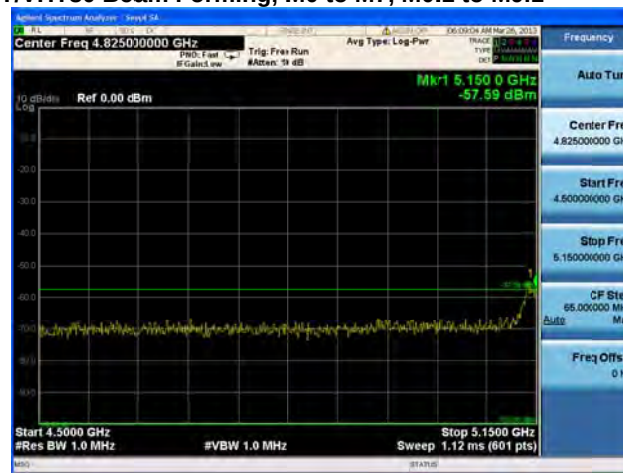
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

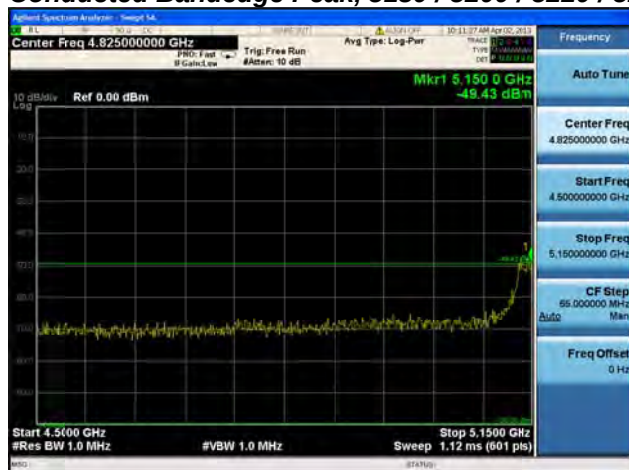
**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

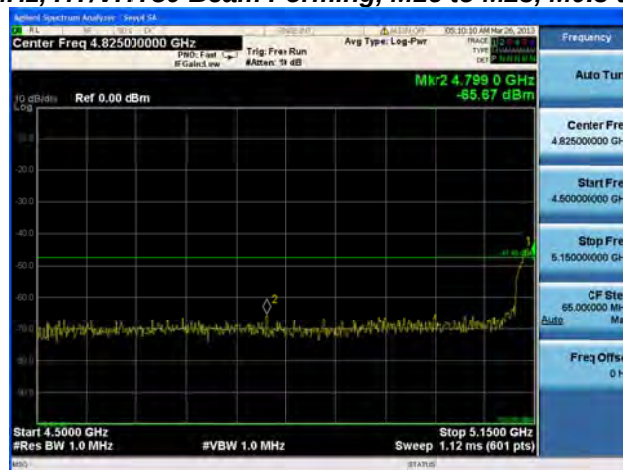
**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

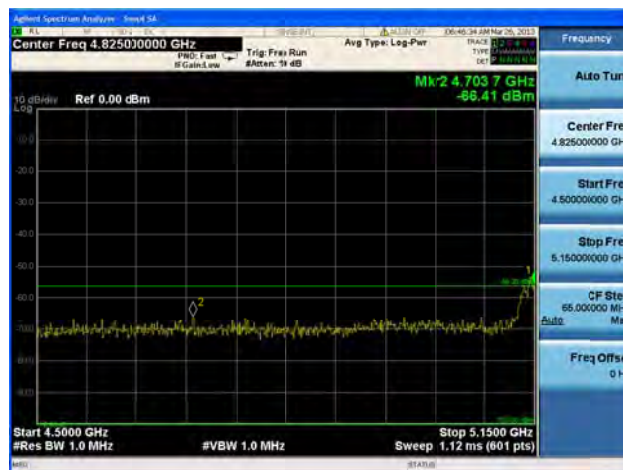
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

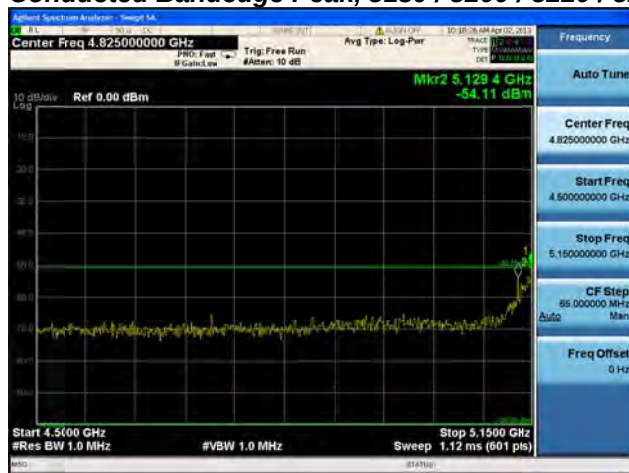
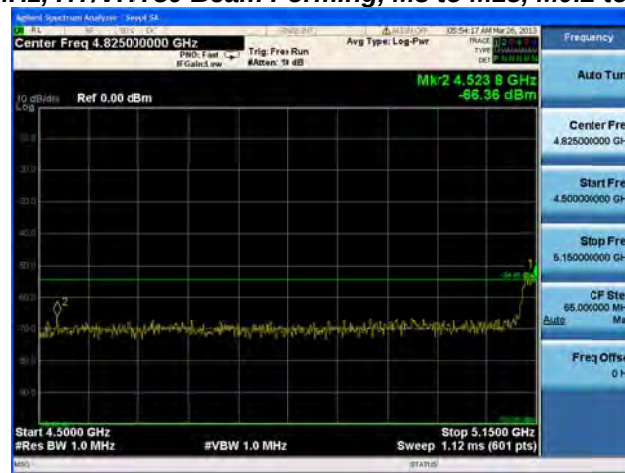
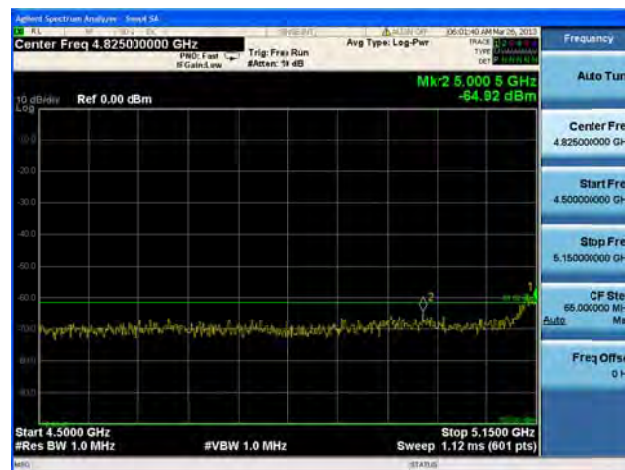
**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

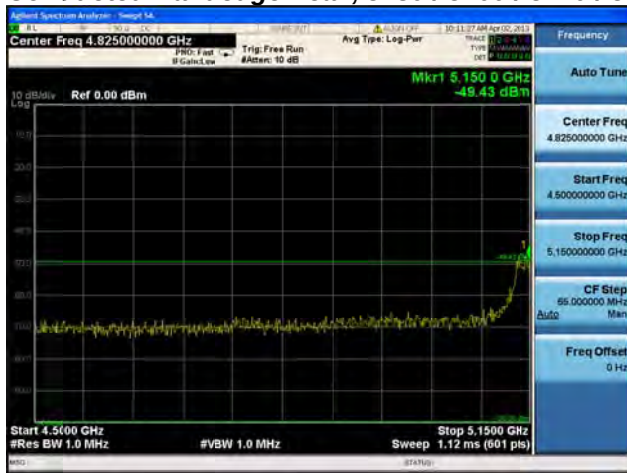
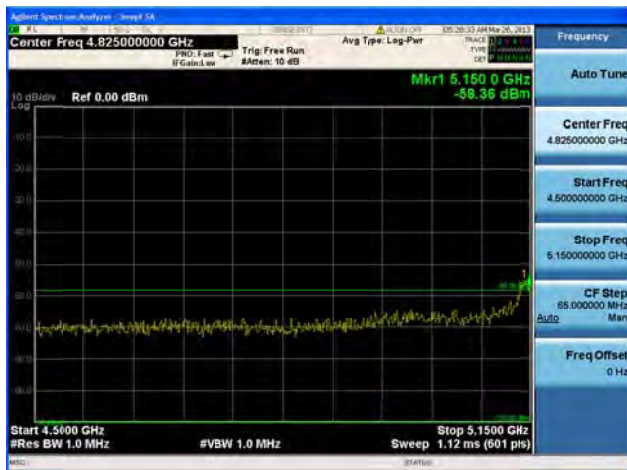
**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

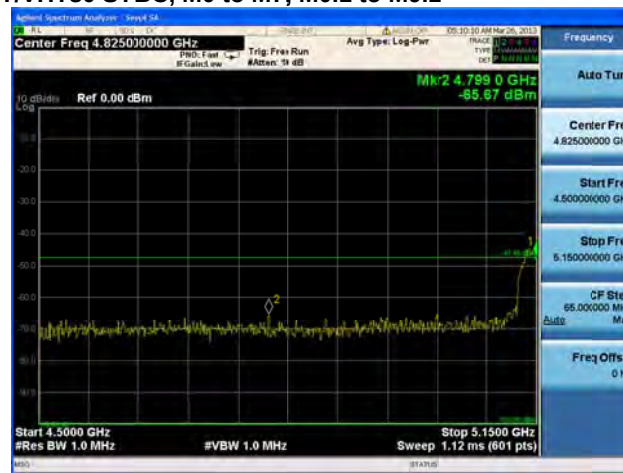
**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

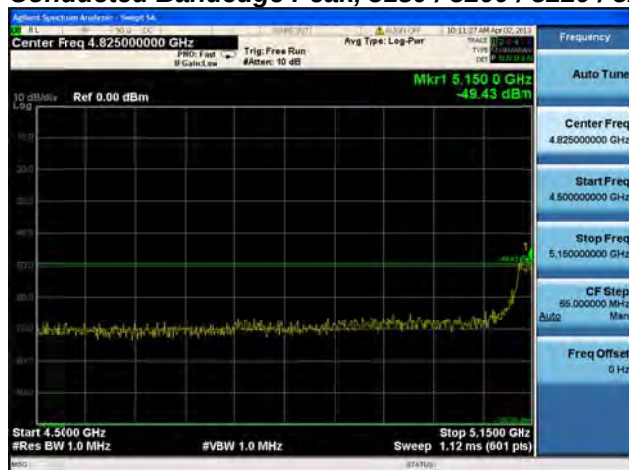
Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Conducted Bandedge Peak, 5180 / 5200 / 5220 / 5240 MHz, HT/VHT80 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. 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)
5220/5240	M0	1	11.9	11	3.94	20	16.06

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)
5220/5240	M0	20	11.9	11	0.04	1	0.96



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