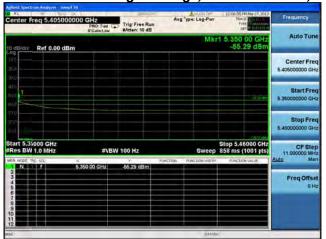
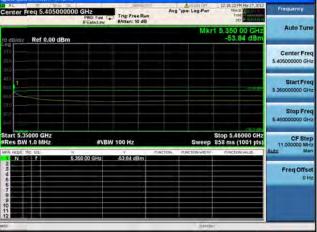


Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3





Antenna B



Antenna C

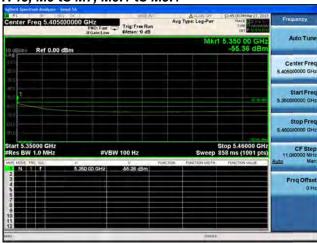


Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1

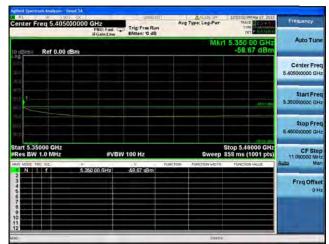




Antenna C



Antenna B



Antenna D



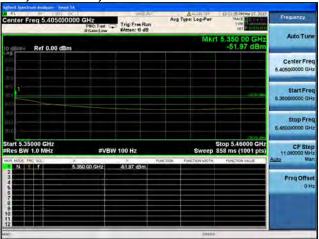
Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2



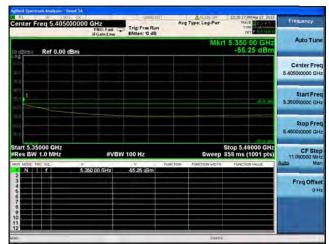
Antenna A Ante



Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3

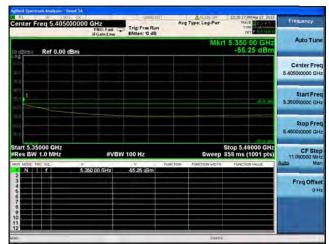




Antenna C



Antenna B

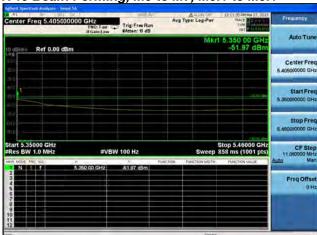


Antenna D



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



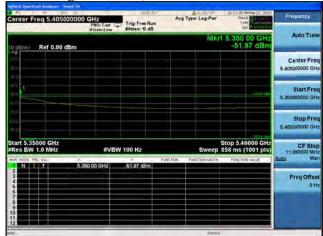


Antenna A Antenna B



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

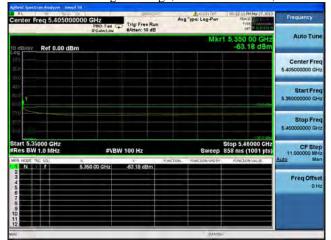




Antenna B



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





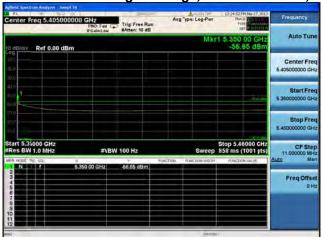
Antenna B

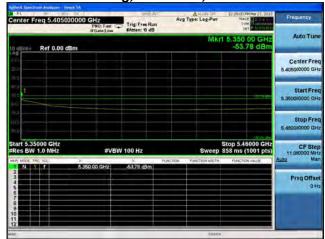


Antenna C



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





Antenna A

April Specime Annivers - 1990 Mar. | 1990 Fast | 1990

Antenna C

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Antenna B



Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3

Antenna B





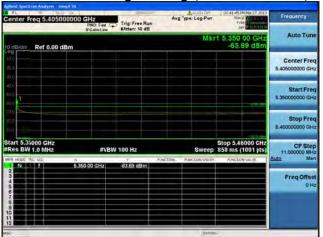
Antenna A

Antenna C

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







Antenna B

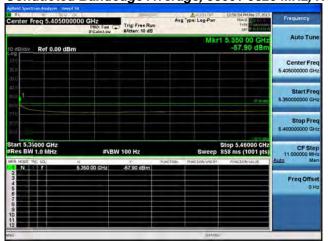


Antenna C

Antenna D



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

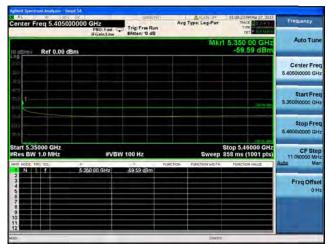




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3







Antenna B



Antenna C

Antenna D



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



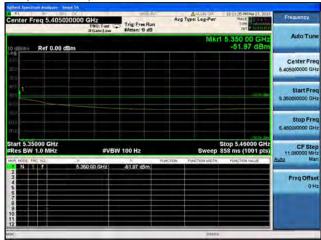


Antenna B

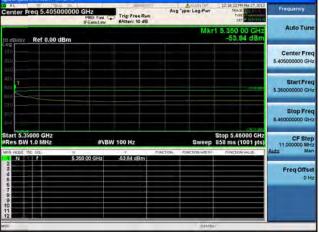


Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1





Antenna B

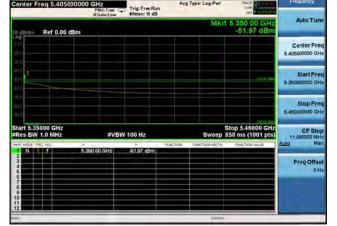


Antenna C



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







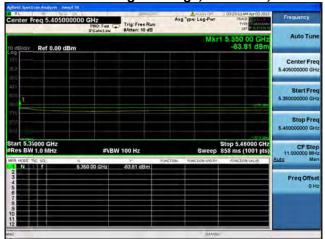
Antenna B



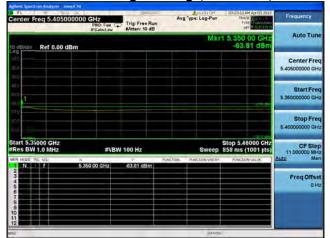
Antenna C

Antenna D









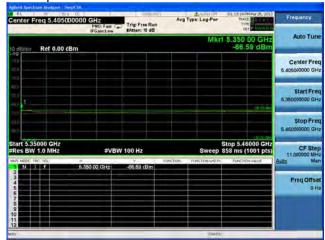


Antenna A

Antenna B







Antenna A

| April | Apri

Antenna C

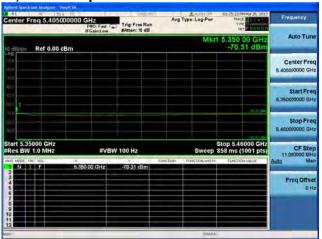
Antenna B



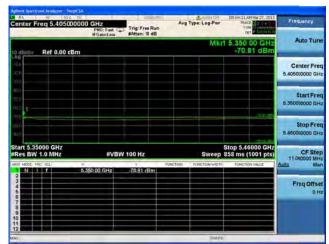




Antenna C

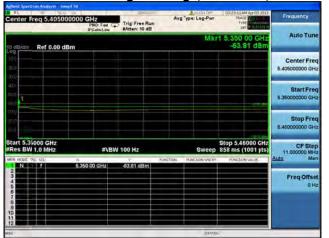


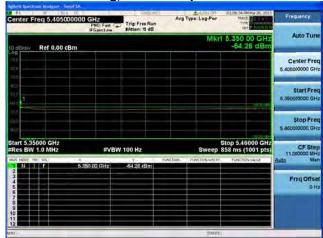
Antenna B



Antenna D

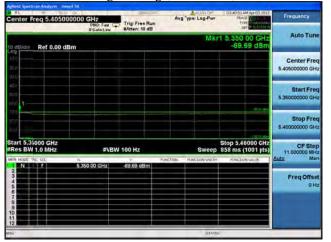


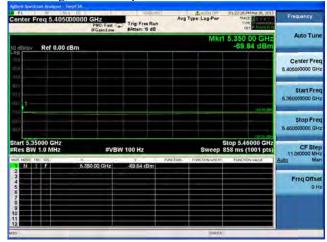




Antenna B







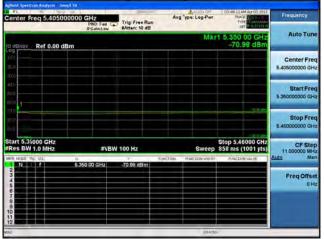
Antenna A

Antenna B



Antenna C





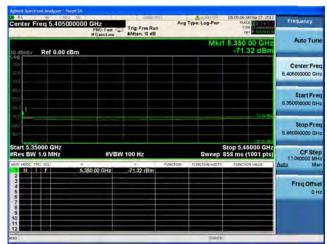
Antenna A



Antenna C



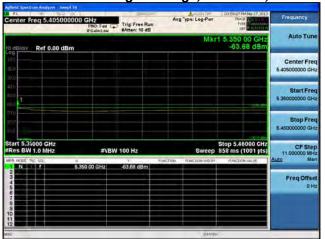
Antenna B



Antenna D



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



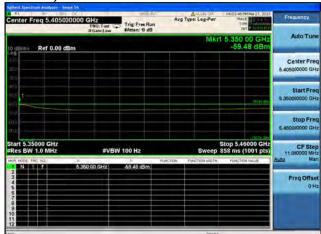
Antenna A

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



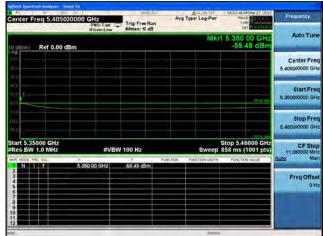


Antenna A Antenna B



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

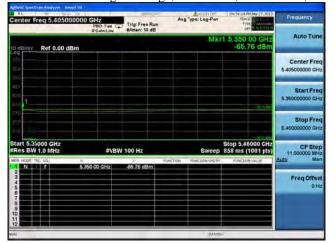


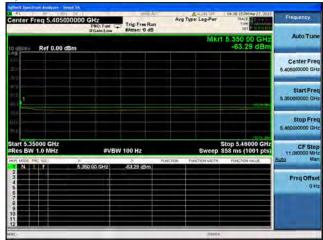


Antenna B



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





Antenna B

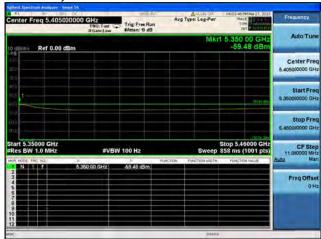


Antenna C



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

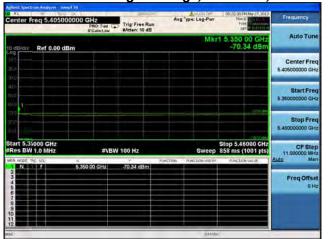
Antenna B



Antenna C



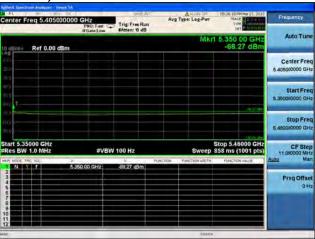
Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



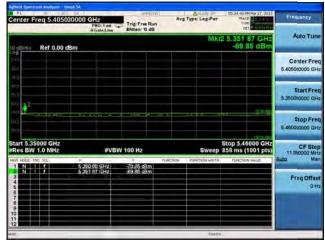




Antenna C



Antenna B



Antenna D



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

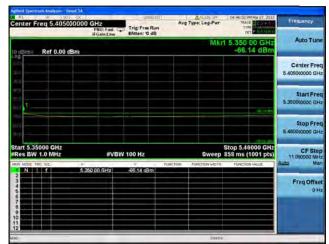




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3

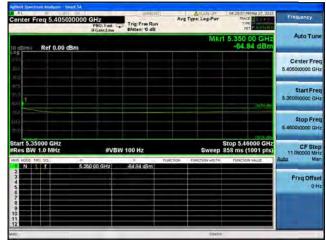




Antenna C



Antenna B

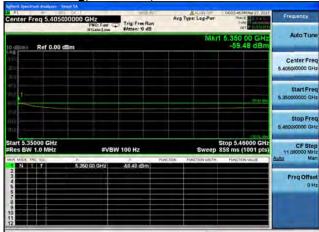


Antenna D



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

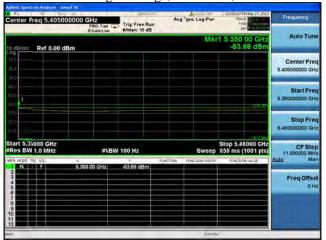


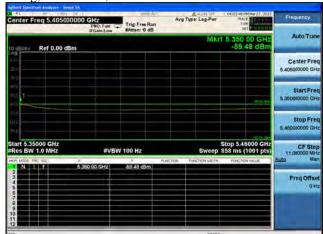


Antenna B



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

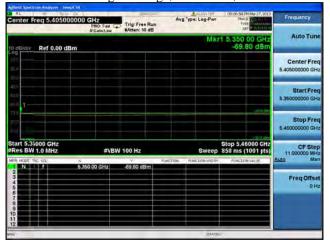


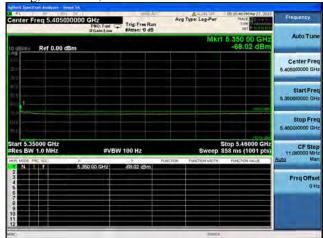


Antenna B



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





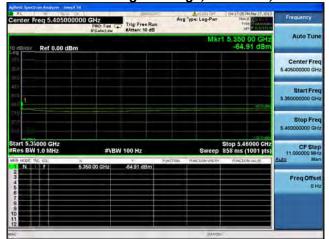
Antenna B



Antenna C



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





Antenna A

Antenna B

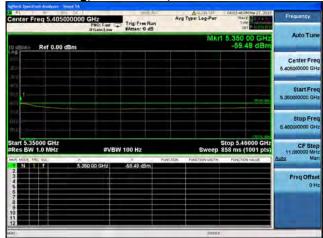


Antenna C



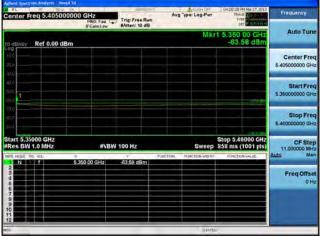
Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna A

Antenna B



Antenna C



Center Fre

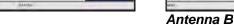
CFSte

Freq Offse

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

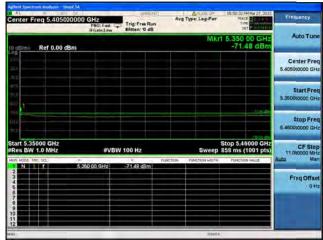


Antenna A





Antenna C Antenna D



Trig: Free Run

Ref 0.00 dBm



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

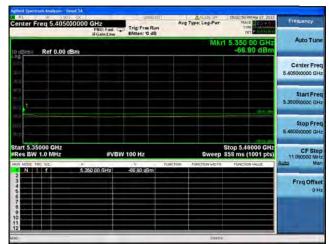




Antenna C



Antenna B



Antenna D



Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3



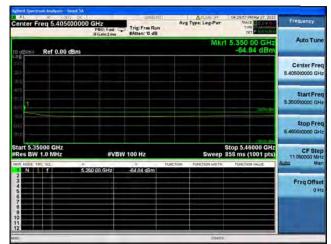




Antenna C



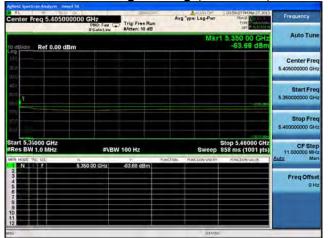
Antenna B

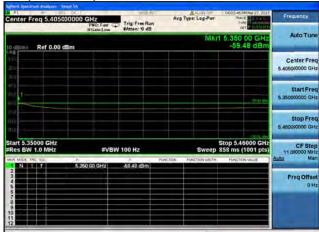


Antenna D



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



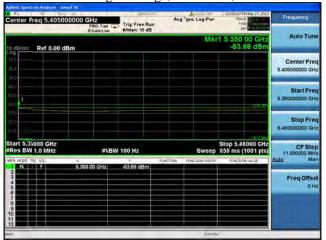


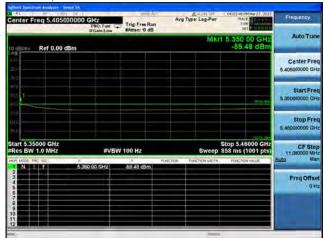
Antenna A

Antenna B



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





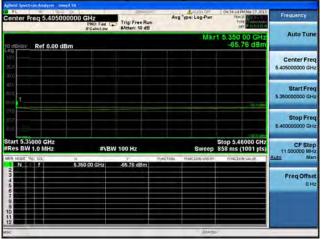
Antenna B



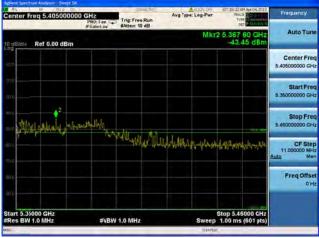
Antenna C



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









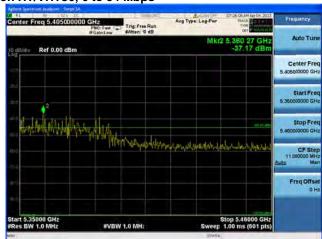




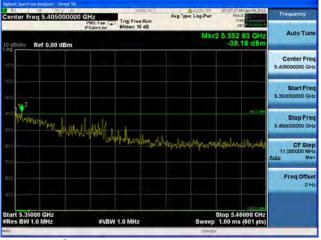
Antenna A Antenna B







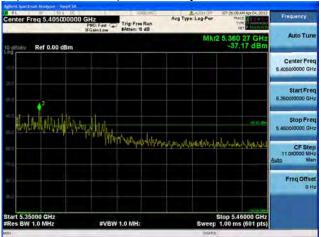
Antenna B



Antenna C









Antenna B

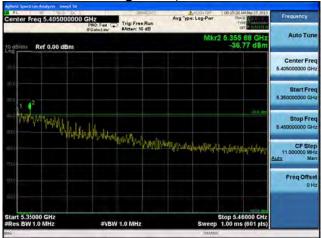


Antenna C

Antenna D

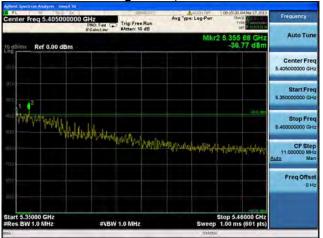


Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1





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



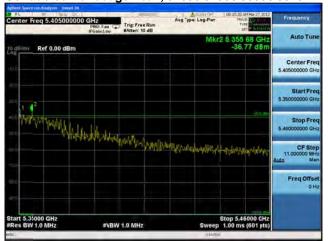


Antenna A

Antenna B



Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2



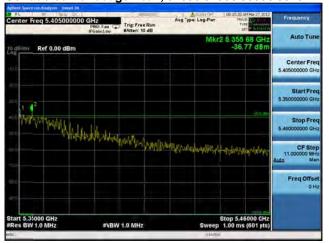


Antenna A

Antenna B



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





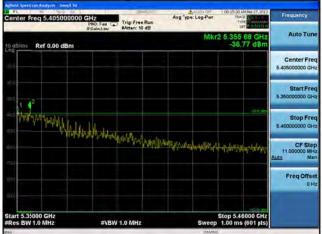
Antenna B



Antenna C



Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2





Antenna B



Antenna C



Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3





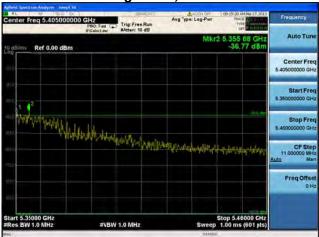
Antenna B



Antenna C



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







Antenna B

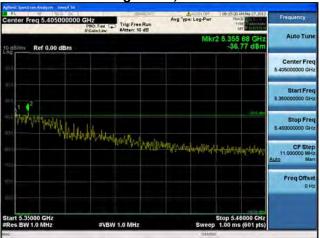


Antenna C

Antenna D



Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2







Antenna B



Antenna C

Antenna D



Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3





Antenna B

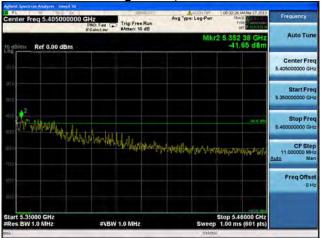


Antenna C

Antenna D



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

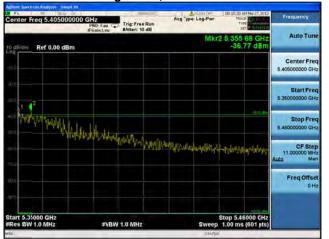




Antenna B



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





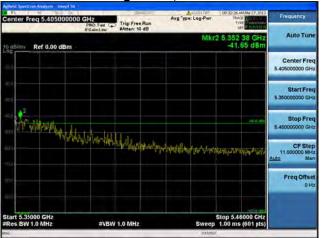
Antenna B



Antenna C



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





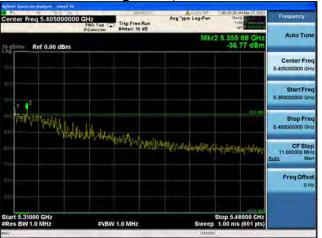
Antenna B



Antenna C



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





Antenna B



Antenna C



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







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 B



Antenna C

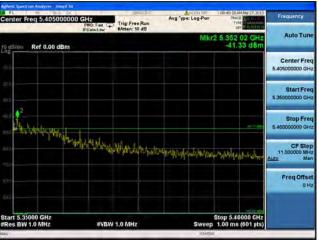
Antenna D



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







Antenna B

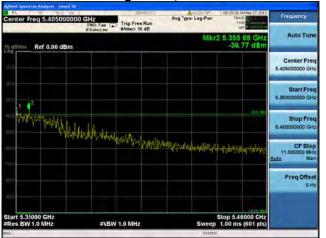


Antenna C

Antenna D



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



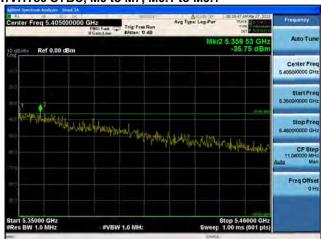


Antenna A Antenna B



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





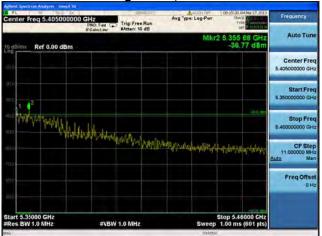
Antenna B



Antenna C



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







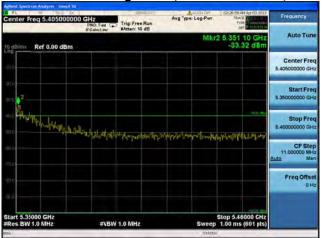
Antenna B



Antenna C

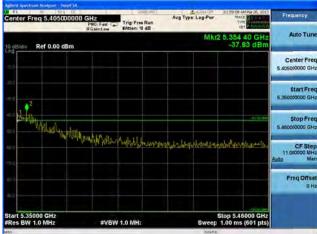
Antenna D





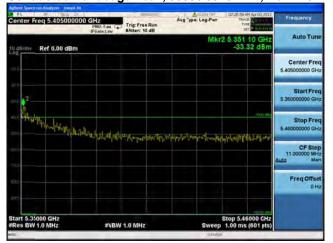






Antenna B





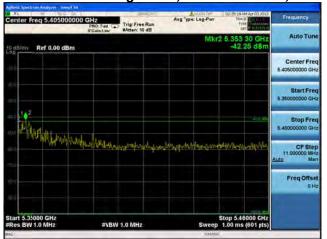


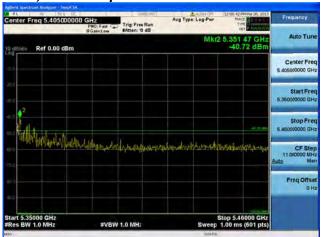
Antenna B

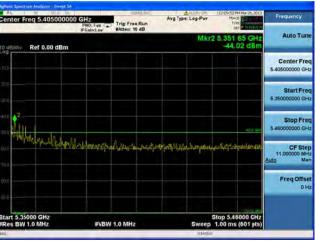


Antenna C









Antenna B

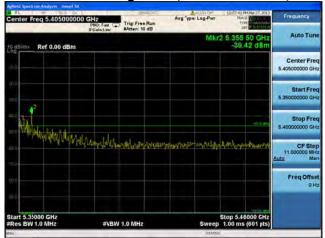


Antenna C

Antenna D

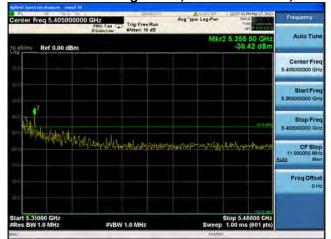


Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1





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



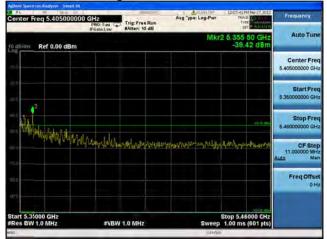


Antenna A Antenna B

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

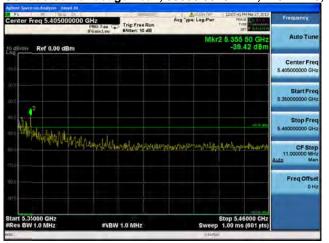




Antenna A Antenna B

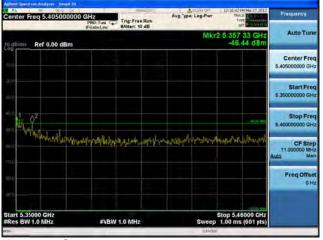


Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1





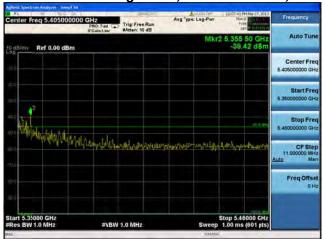
Antenna B



Antenna C



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





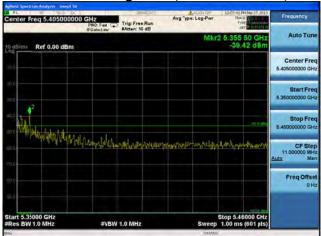
Antenna B

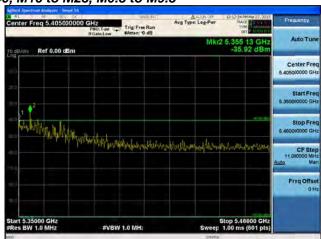


Antenna C

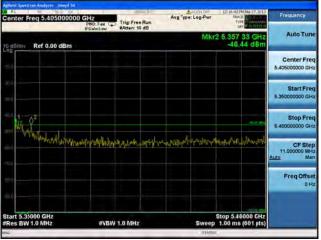


Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3





Antenna B



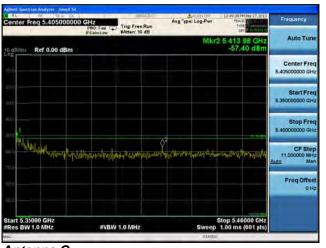
Antenna C



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







Antenna B

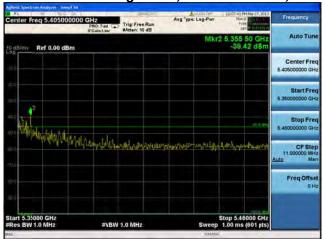


Antenna C

Antenna D



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





Antenna A

Antenna B

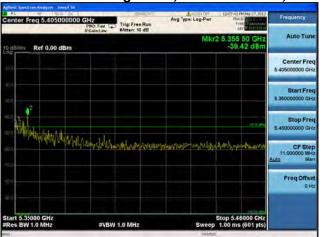


Antenna C

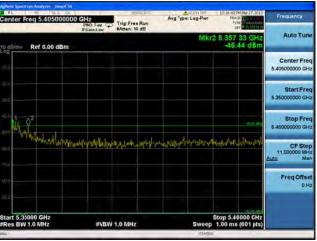
Antenna D



Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3







Antenna B



Antenna C

Antenna D



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

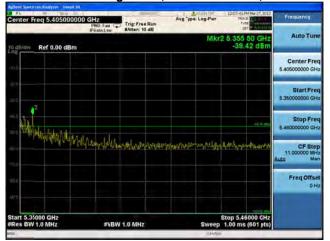




Antenna B



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



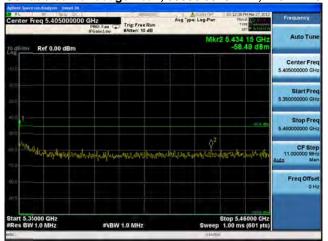


Antenna A

Antenna B

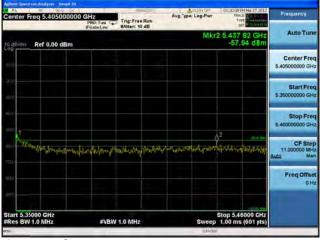


Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna B



Antenna C

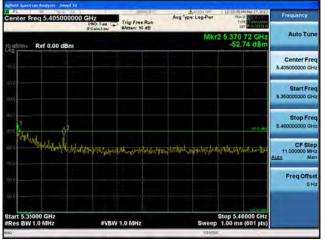


Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2





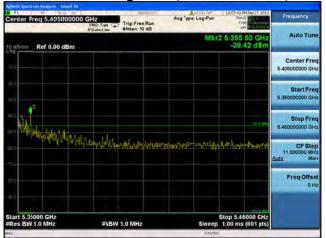
Antenna B



Antenna C



Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna A

су

Antenna B



Antenna C



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



| Center Freq 5.405000000 GHz | Frequency | Frequency



Antenna B

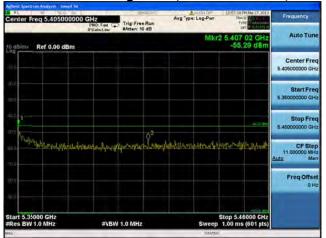


Antenna C

Antenna D

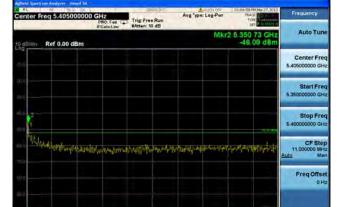


Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna A



#VBW 1.0 MHz

Antenna B



Antenna C

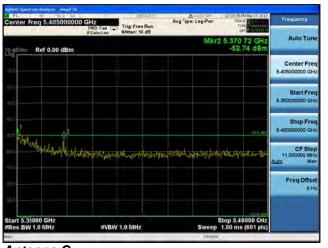
Antenna D



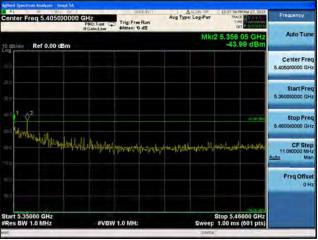
Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3







Antenna B

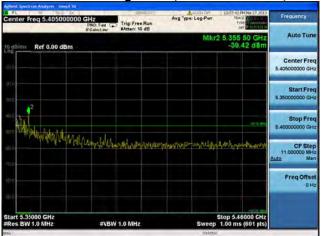


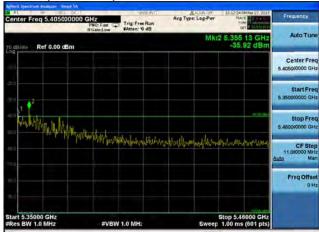
Antenna C

Antenna D



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



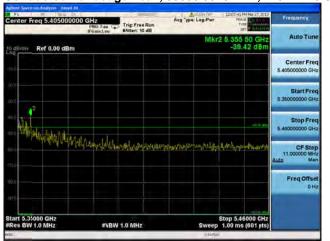


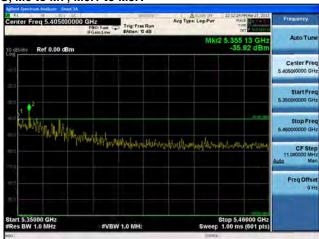
Antenna A

Antenna B



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





Antenna A

| Center Freq 5.405000000 GHz | Frequency | Frequency

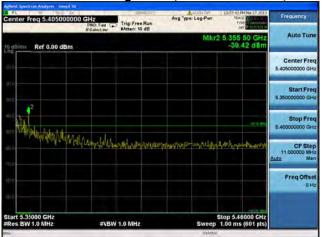
Antenna C

Page No: 289 of 320

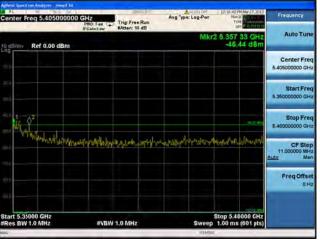
Antenna B



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







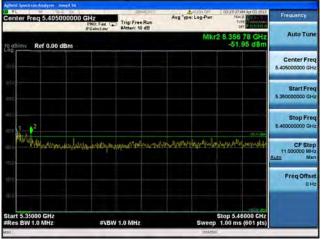
Antenna B



Antenna C

Antenna D











Antenna A Antenna B

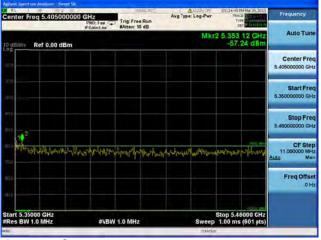
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Antenna B

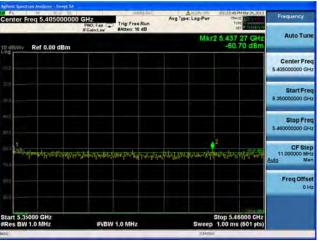


Antenna C





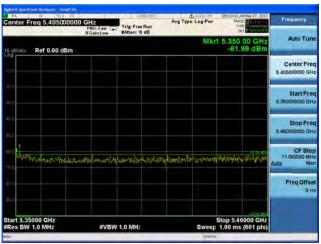
Antenna A



Antenna C



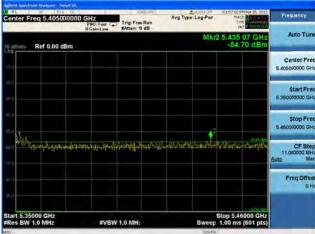
Antenna B



Antenna D







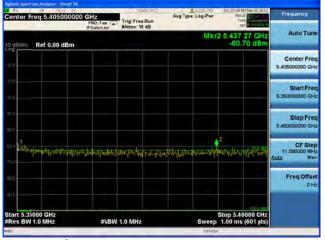
Antenna B





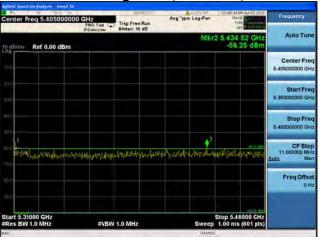


Antenna B

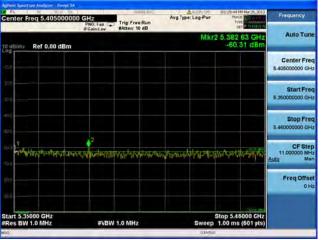


Antenna C









Antenna B

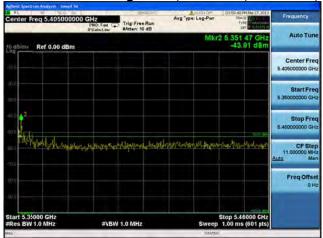


Antenna C

Antenna D



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





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

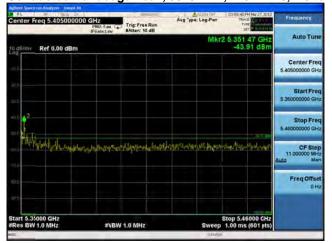




Antenna A Antenna B



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

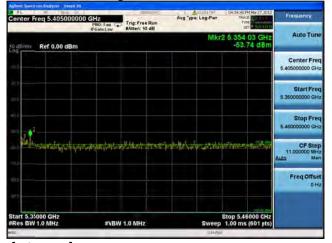


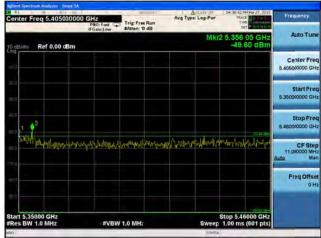


Antenna A Antenna B

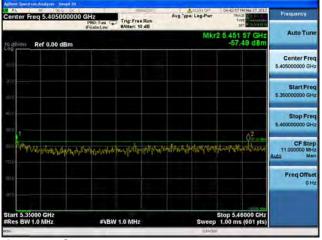


Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1





Antenna B

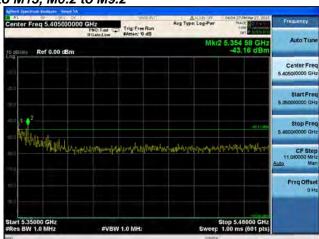


Antenna C

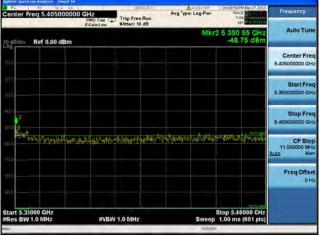


Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2





Antenna B



Antenna C



Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3





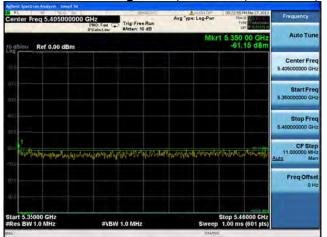
Antenna B



Antenna C



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







Antenna B

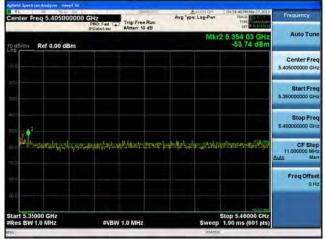


Antenna C

Antenna D



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







Antenna B



Antenna C

Antenna D



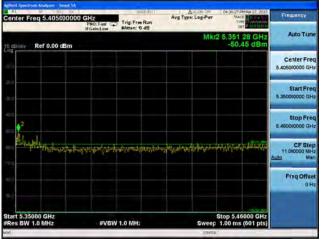
Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3







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

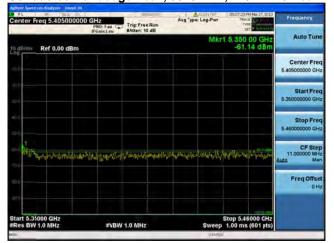




Antenna B

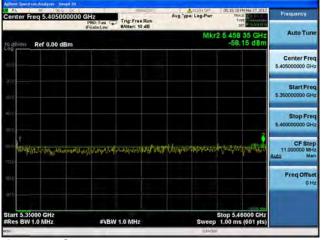


Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna B



Antenna C



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





Antenna B

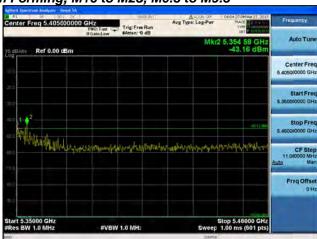


Antenna C

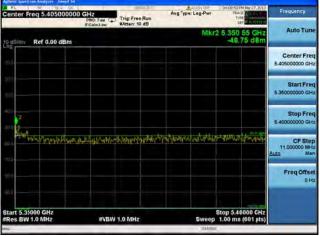


Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3





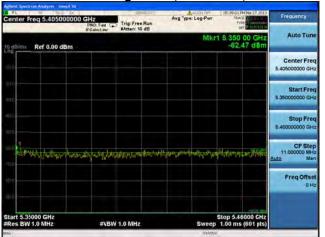
Antenna B



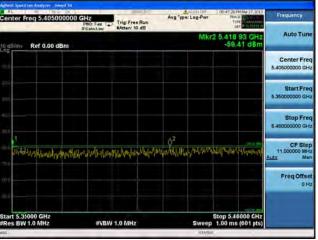
Antenna C



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







Antenna B



Antenna C

Antenna D



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







Antenna B



Antenna C

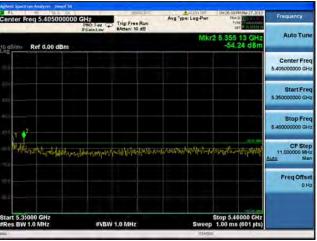
Antenna D



Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3







Antenna B

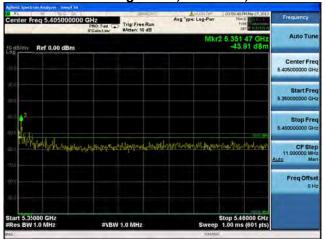


Antenna C

Antenna D



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





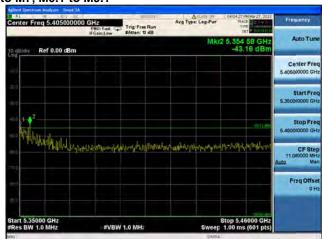
Antenna A Antenna B

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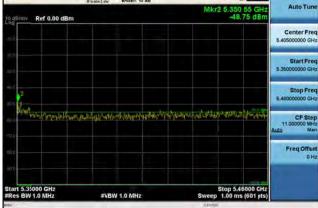


Conducted Bandedge Peak, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1





Antenna A



Antenna C

Antenna B



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





Antenna A

April 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 1972 | 197

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

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

where

E=Field Strength in Volts/meter

P=Power in Watts

G=Numeric Antenna Gain

d=Distance in meters

S=Power Density in mW/cm^2

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

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

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

P(mW)=P(W)/1000 d(cm)=100*d(m)

yields

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

d=0.282*√(P*G/S)

where

d=Distance in cm

P=Power in mW

G=Numerica Antenna Gain

S=Power Density in mW/cm^2

Substituting the logarithmic form of power and gain using:

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

yields

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

and

 $s=((0.282*10^{((P+G)/20))/d})^2$ Equation (2)

where

d=MPE distance in cm

P=Power in dBm

G=Antenna Gain in dBi

S=Power Density in mW/cm^2

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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=1mW/cm² maximum. The highest supported antenna gain is 4 dBi Using the peak power levels recorded in the test report along with Equation 1 above, the MPE distances are calculated as follows.

			Peak				
		Power	Transmit	Antenna	MPE		
Frequency	Bit Rate	Density	Power	Gain	Distance	Limit	Margin
(MHz)	(Mbps)	(mW/cm^2)	(dBm)	(dBi)	(cm)	(cm)	(cm)
5260/5280	M8	1	23.3	4	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:

			Peak				
		MPE	Transmit	Antenna	Power		
Frequency	Bit Rate	Distance	Power	Gain	Density	Limit	Margin
(MHz)	(Mbps)	(cm)	(dBm)	(dBi)	(mW/cm^2)	(mW/cm^2)	(mW/cm^2)
5260/5280	M8	20	23.3	4	0.11	1	0.89

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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

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