

**Conducted Spurs Average, 5530 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B**

**Conducted Spurs Average, 5530 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

Conducted Spurs Average, 5530 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Spurs Average, 5530 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A**

Conducted Spurs Average, 5530 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

**Conducted Spurs Average, 5530 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

**Conducted Spurs Average, 5530 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**

**Conducted Spurs Average, 5530 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5530 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5530 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**



Conducted Spurs Average, 5530 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2



Antenna A



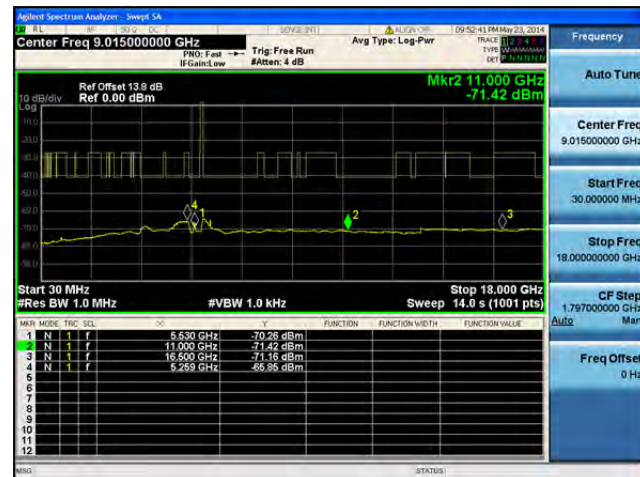
Antenna B

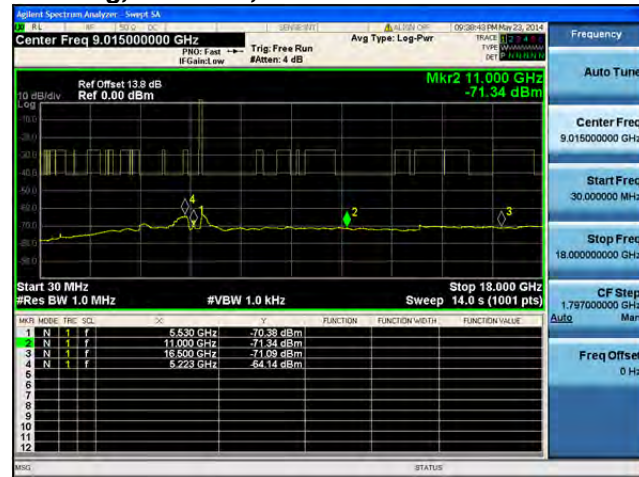


Antenna C



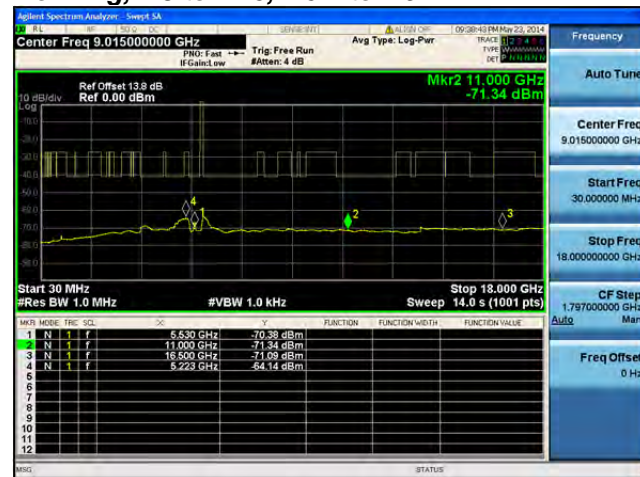
Antenna D

**Conducted Spurs Average, 5530 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

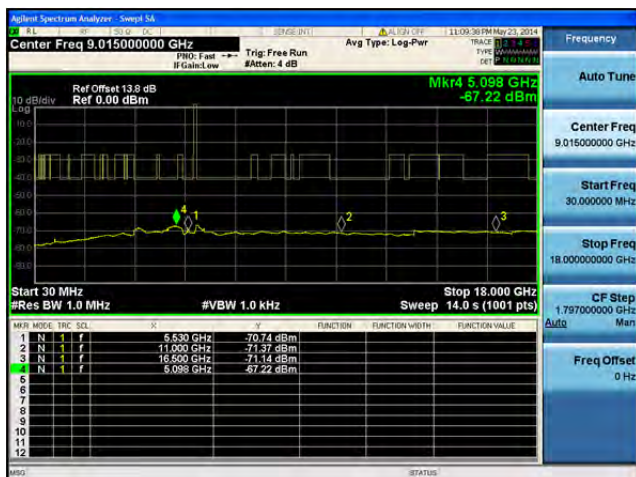
**Conducted Spurs Average, 5530 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

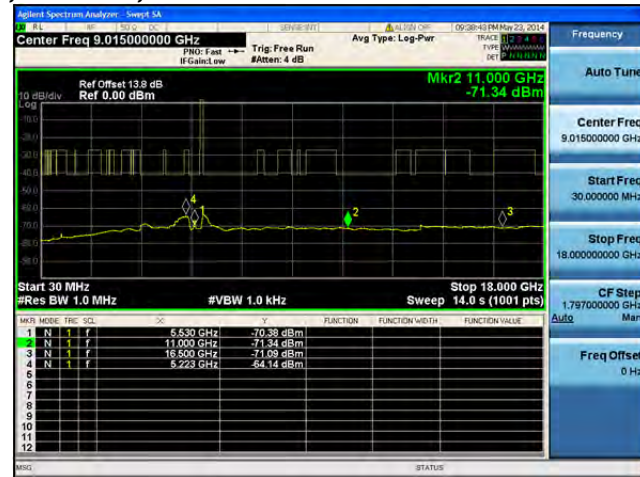
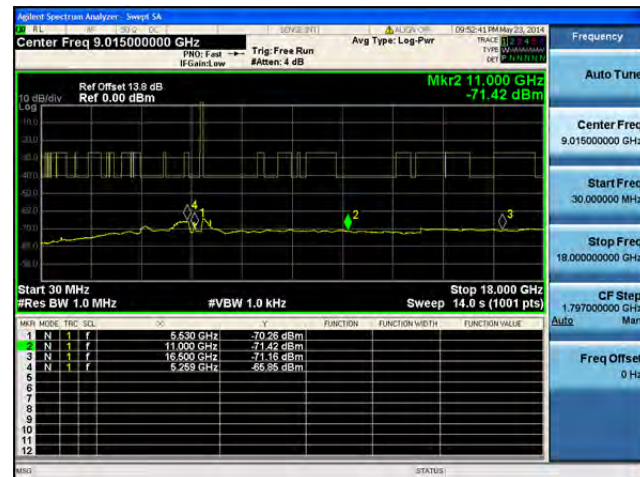
**Conducted Spurs Average, 5530 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5530 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5550 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A**

Spectrum Analyzer - Smp5 54

Center Freq 9.015000000 GHz Avg Type: Log-Pwr

Ref Offset 13.89 dB Ref 0.00 dBm

Mkr2 11.080 GHz -71.47 dBm

Start 30 MHz Stop 18.000 GHz

Res BW 1.0 MHz #VBW 1.0 kHz Sweep 14.0 s (1001 pts)

MARK	MODE	TRIG	SL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.650 GHz	-57.93 dBm		
2	N	1	f	11.080 GHz	-71.47 dBm		
3	N	1	f	16.620 GHz	-71.09 dBm		
4	N	1	f	5.295 GHz	-67.90 dBm		

Agilent Spectrum Analyzer: Sweep 14

Center Freq 9.015000000 GHz

Avg Type: Log-Pwr

Ref Offset: 13.89 dB

Ref 0.00 dBm

Mkr2 11.080 GHz

-71.52 dBm

Start 30 MHz

#Res BW 1.0 MHz

#VBW 1.0 kHz

Sweep 18.000 GHz

14.0 s (1001 pts)

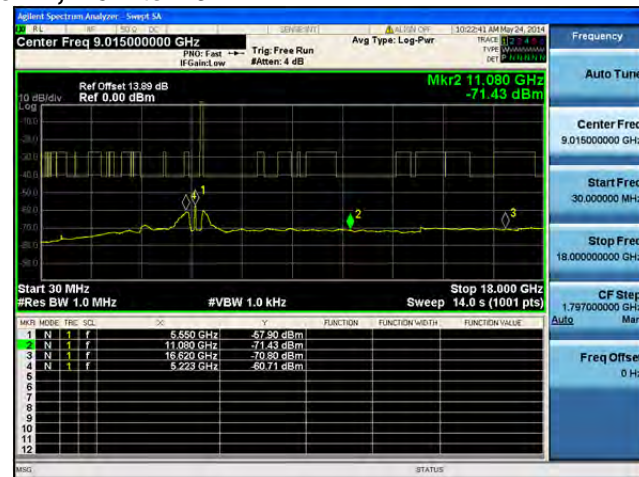
MkR	Mode	Freq	SQL	dB	Y	Function	Function Width	Function Value
1	N	1	f		5.550 GHz	-57.79 dBm		
2	N	1	f		11.080 GHz	-71.52 dBm		
3	N	1	f		16.620 GHz	-70.37 dBm		
4	N	1	f		5.223 GHz	-61.00 dBm		

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**Conducted Spurs Average, 5550 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

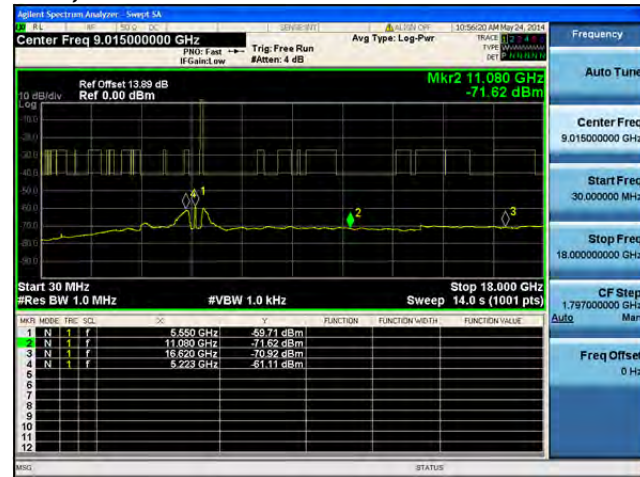
**Conducted Spurs Average, 5550 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Spurs Average, 5550 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A**

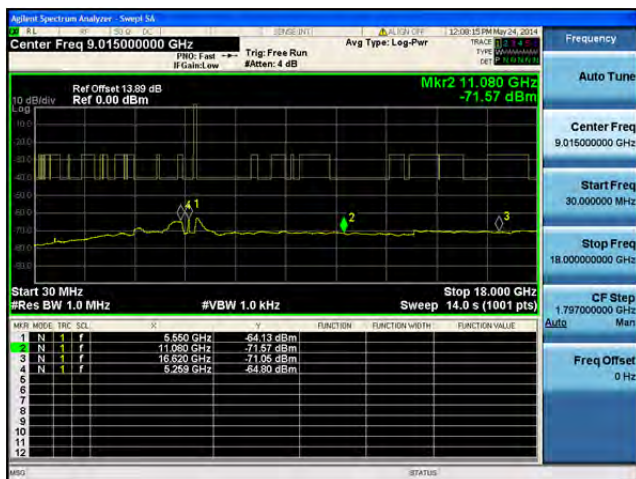
**Conducted Spurs Average, 5550 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

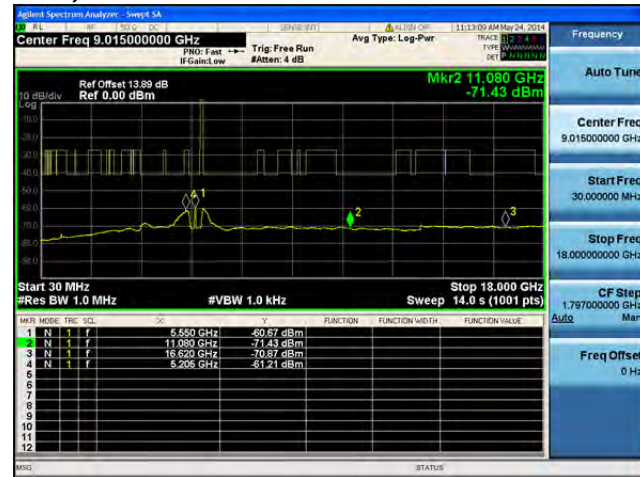
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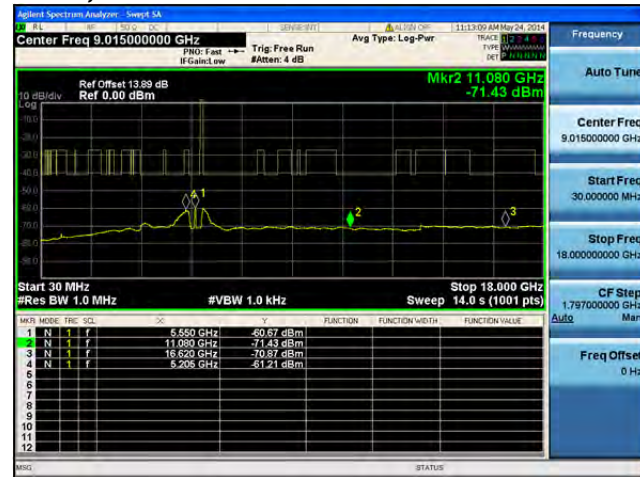
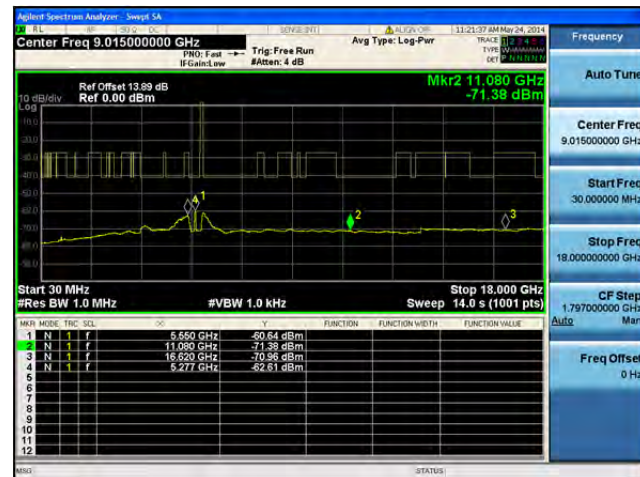
**Conducted Spurs Average, 5550 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

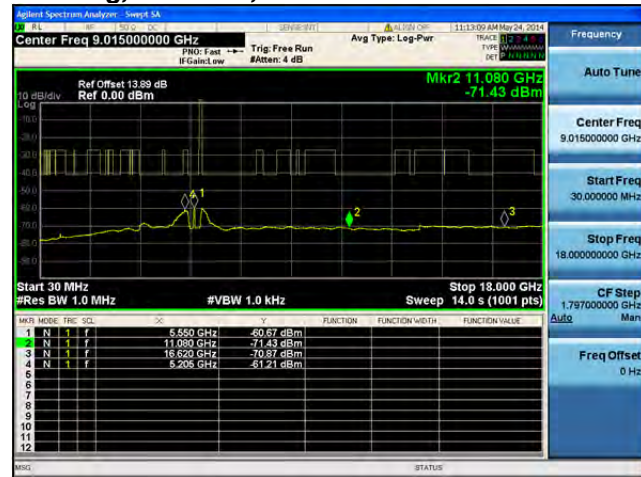
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**Conducted Spurs Average, 5550 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5550 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5550 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5550 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B**

**Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

[illegible]

Signal Spectrum Analyzer - Setup 2A

Center Freq 9.015000000 GHz

Ref Offset 13.89 dB
Ref 0.00 dBm

PRF: Fast → Trig: Free Run #Aver: 4 dB

Auto Type: Log-Pwr

TRACE 012 4.0 dBm
TYPE: Normal
DEC: 10000000

111-3034 AM May 24, 2014

**Mkr4 5.116 GHz
-63.60 dBm**

Start 30 MHz
#Res BW 1.0 MHz

#VBW 1.0 kHz

Stop 18.000 GHz
Sweep 14.0 s (1001 pts)

MN	FR	FREQ	SCL	ΔC	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f		5.680 GHz	-61.66 dBm		
2	N	1	f		11.000 GHz	-77.44 dBm		
3	N	1	f		16.620 GHz	-70.89 dBm		
4	N	1	f		5.116 GHz	-63.60 dBm		

Agilent Spectrum Analyzer - Sweep 5A

Center Freq 9.015000000 GHz

Ref Offset 13.89 dB
Ref 0.00 dBm

Mkr2 11.080 GHz
-71.60 dBm

Start 30 MHz
#Res BW 1.0 MHz

#VBW 1.0 kHz

Sweep 14.0 s (1001 pts)

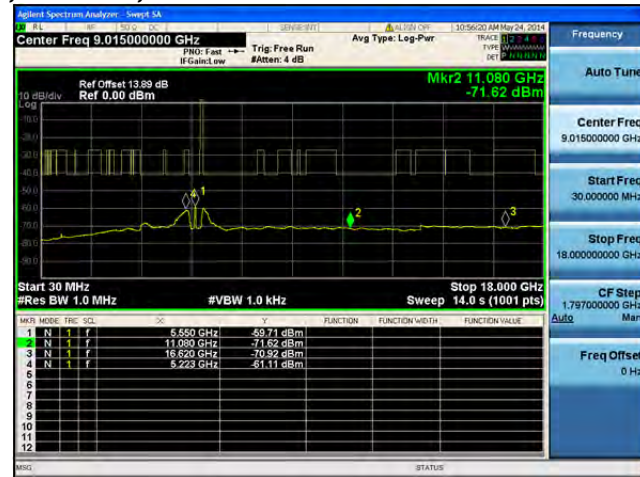
Stop 18.000 GHz

MNR	MODE	TRC	SOL	F	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	9.560 GHz	-52.55 dBm			
2	N	1	f	11.080 GHz	-71.60 dBm			
3	N	1	f	16.820 GHz	-70.38 dBm			
4	N	1	f	5.258 GHz	-52.01 dBm			

[illegible]

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**Conducted Spurs Average, 5550 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

**Conducted Spurs Average, 5550 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

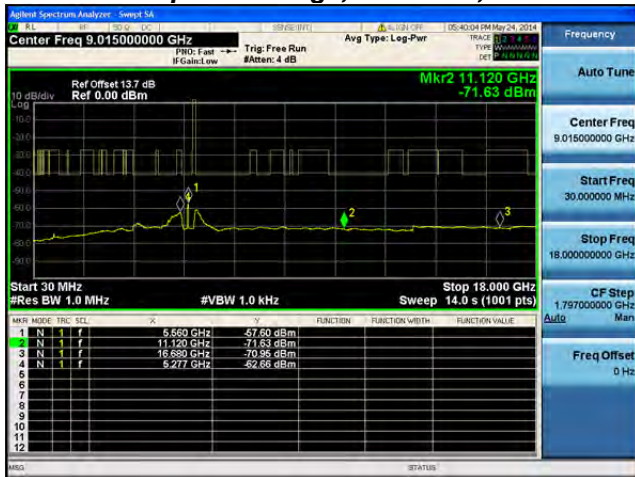
**Conducted Spurs Average, 5550 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Spurs Average, 5560 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A**

**Conducted Spurs Average, 5560 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B**

**Conducted Spurs Average, 5560 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

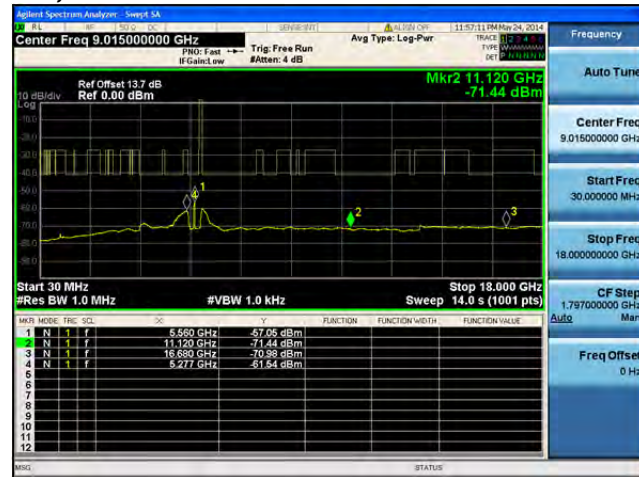
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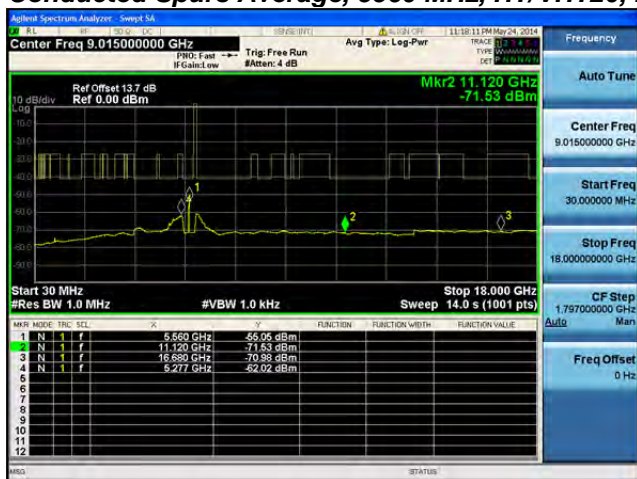
**Conducted Spurs Average, 5560 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B**

Conducted Spurs Average, 5560 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

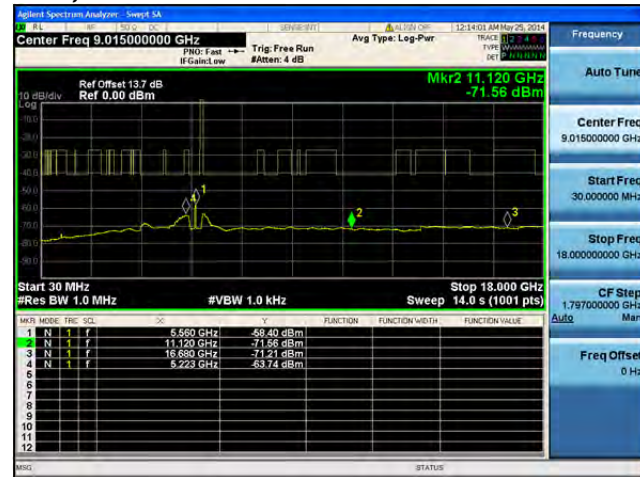
**Conducted Spurs Average, 5560 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5560 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1****Antenna A**

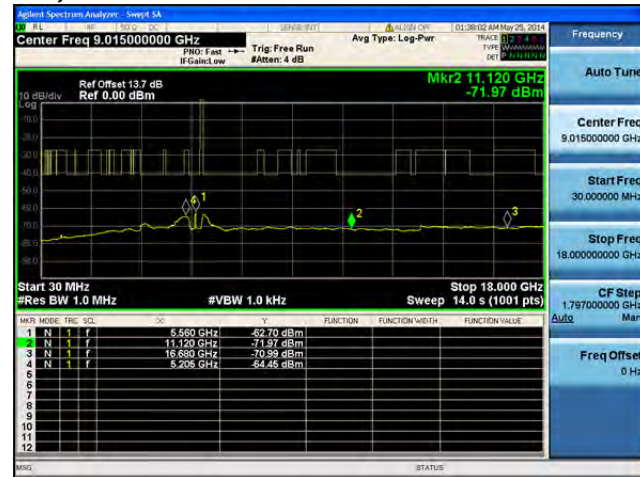
**Conducted Spurs Average, 5560 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

Conducted Spurs Average, 5560 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B**

**Conducted Spurs Average, 5560 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5560 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

Conducted Spurs Average, 5560 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5560 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5560 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

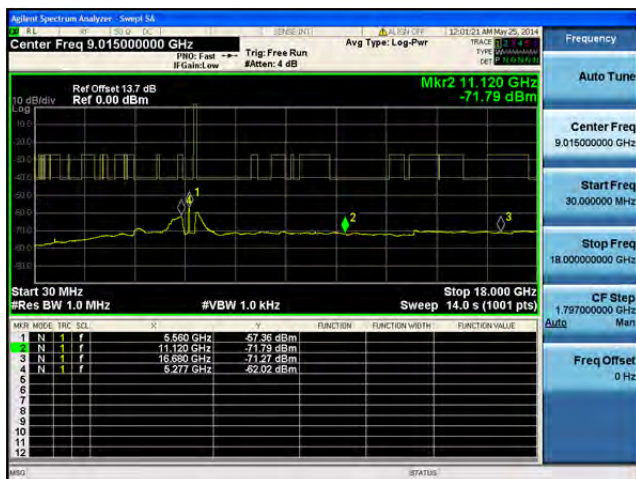
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**Conducted Spurs Average, 5560 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

**Conducted Spurs Average, 5560 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

**Conducted Spurs Average, 5560 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5560 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5560 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5560 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5560 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

Ref Offset 13.7 dB
Ref 0.00 dBm

Center Freq 9.015000000 GHz
#Res BW 1.0 MHz
#VBW 1.0 kHz
Sweep 14.0 s (1001 pts)

Mkr2 11.120 GHz
-72.01 dBm

Mkr	Mode	Freq	Power
1	N	5.660 GHz	-55.73 dBm
2	N	11.120 GHz	-72.01 dBm
3	N	16.680 GHz	-70.92 dBm
4	N	5.295 GHz	-62.56 dBm

Spectrum Analyzer - Scope 1

12:30:51 AM Mar 26, 2014

Center Freq 9.015000000 GHz **AvG Type: Log-Pwr** **TRAC 11.2 0.4** **Frequency**

PRF: Fast **Trig: Free Run** **FORM 10.0 0.4** **Auto Tun**

IF Gain: Low **Atten: 4 dB** **SC 10 0.0 0.4**

Ref Offset 13.7 dB **Mkr2 11.120 GHz**

Ref 0.00 dBm **-71.76 dBm**

Start 30 MHz **Stop 18.000 GHz**

Res BW 1.0 MHz **#VBW 1.0 kHz** **Sweep 14.0 s (1001 pts)**

CF St **1.97700000 GHz**

Autg **Ma**

Freq Offs **0.1**

Mkz	Mode	Freq	SL	Δ	Y	Function	Function Width	Function Value
1	N	1	f		5.650 GHz		-68.86 dBm	
2	N	1	f		11.120 GHz		-71.76 dBm	
3	N	1	f		16.690 GHz		-71.01 dBm	
4	N	1	f		5.241 GHz		-64.20 dBm	
5								
6								
7								
8								
9								
10								
11								
12								

Mkz1 **STATUS**

Agilent Spectrum Analyzer, Swept S4

Center Freq 9.015000000 GHz

Avg Type: Log-Pwr

Ref Offset 13.7 dB

Ref 0.00 dBm

Mkr2 11.120 GHz -71.94 dBm

Stop 30 MHz

#Res BW 10 MHz

#VBW 10 kHz

Stop 18.000 GHz

Sweep 14.0 s (1001 pts)

Mkr	Mode	Freq	Level	Function	Function Width	Function Value
1	N	11.120 GHz	-71.94 dBm			
2	N	11.120 GHz	-71.94 dBm			
3	N	16.680 GHz	-71.16 dBm			
4	N	5.277 GHz	-84.75 dBm			

Frequency

Auto Tune

Center Freq 9.015000000 GHz

Start Freq 30.000000 MHz

Stop Freq 18.000000000 GHz

CF Step 1.797000000 GHz

Auto

Freq Offset 0 Hz

Rohde & Schwarz Spectrum Analyzer - Screenshot

Center Freq 9.015000000 GHz Avg Type: Log-Pwr

Ref Offset 13.7 dB Ref 0.00 dBm

Mkr4 5.116 GHz -64.71 dBm

Start 30 MHz Stop 18.000 GHz

#Res BW 1.0 MHz #VBW 1.0 kHz Sweep 14.0 s (1001 pts)

MARK	MODE	TRIG	SEL	FREQ	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.650 GHz			-68.69 dBm
2	N	1	f	11.150 GHz			-71.38 dBm
3	N	1	f	16.690 GHz			-71.26 dBm
4	N	1	f	5.116 GHz			-64.71 dBm

Frequency

Auto Tun

Center Freq 9.015000000 GHz

Start Freq 30.000000 MHz

Stop Freq 18.000000000 GHz

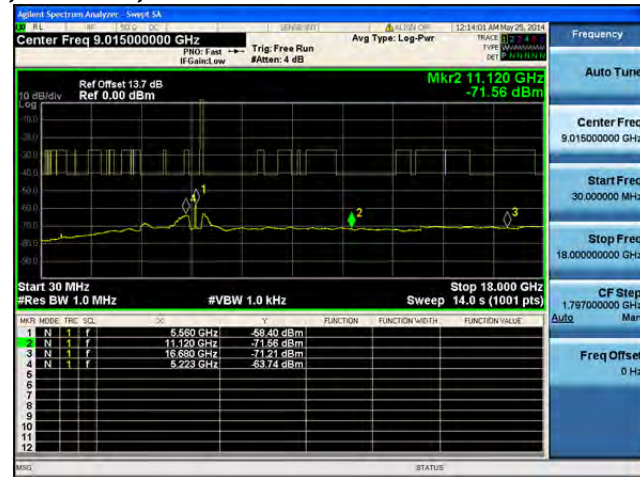
CF Stop 1.797000000 GHz

Freq Offset 0.000000 MHz

STATUS

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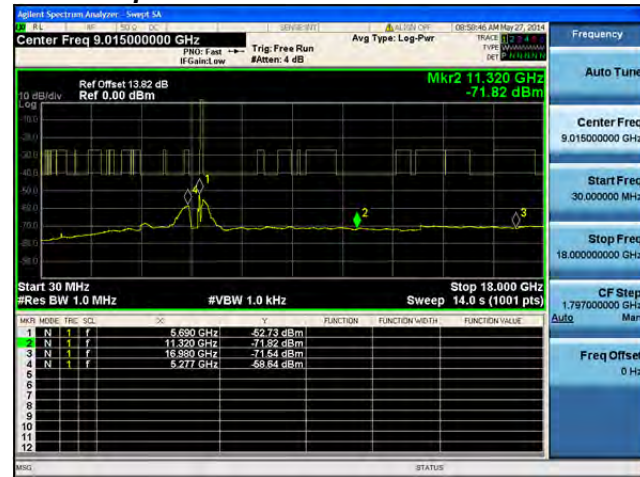
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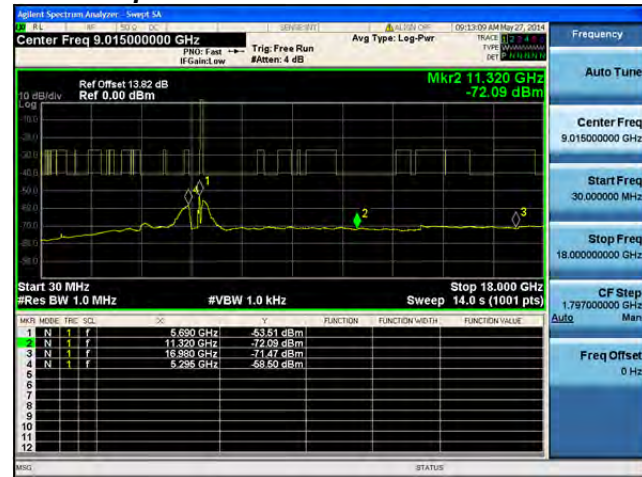
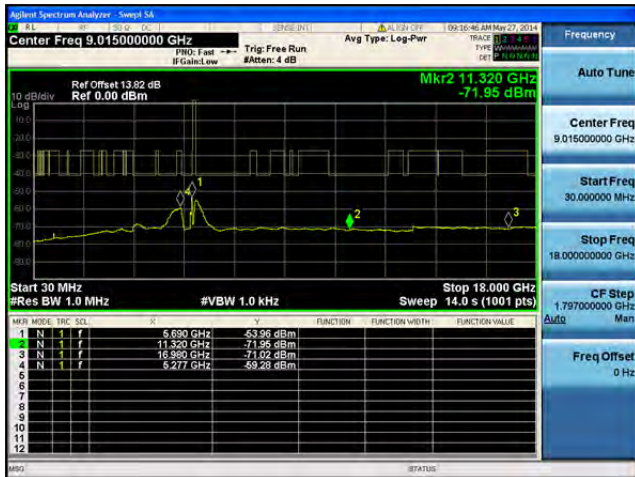
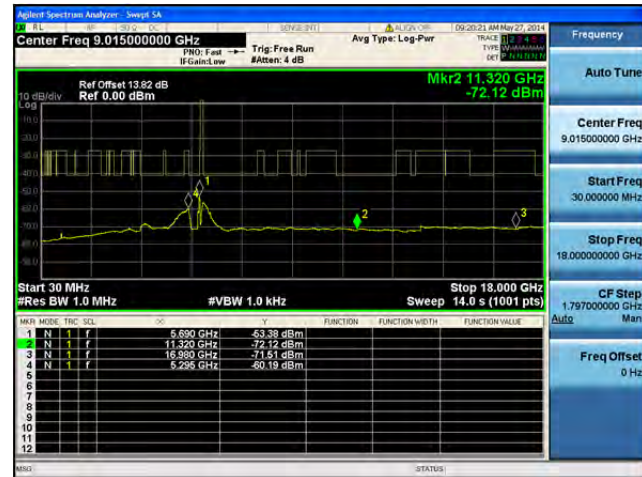
**Conducted Spurs Average, 5560 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5560 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5690 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A**

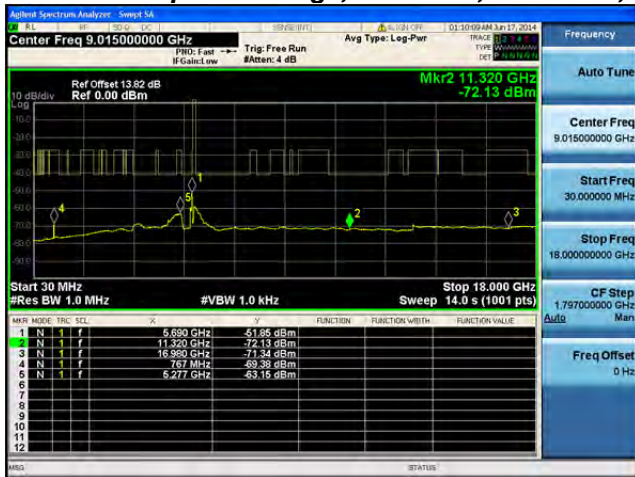
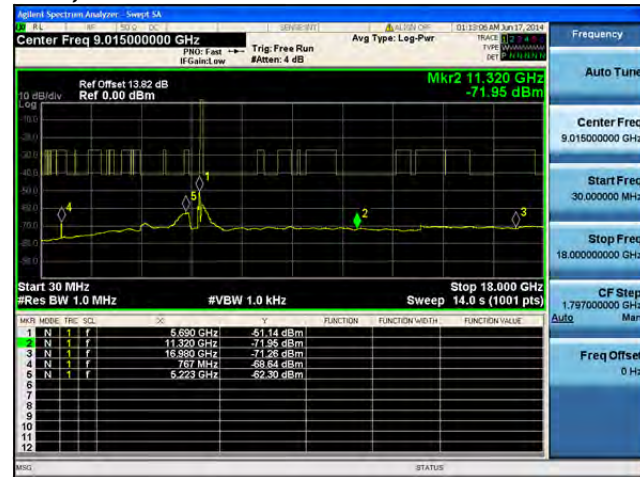
**Conducted Spurs Average, 5690 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B**

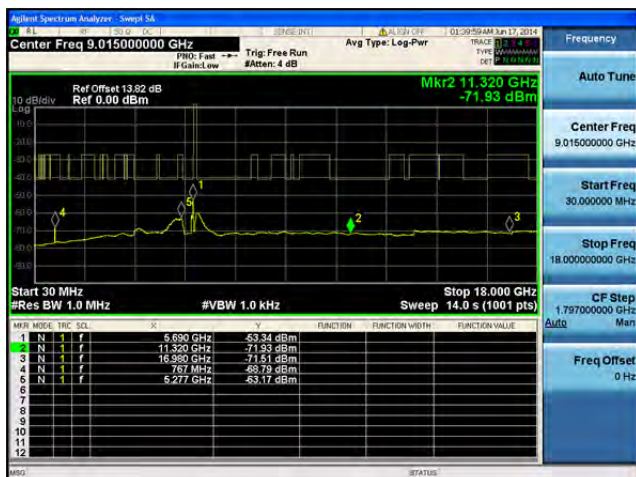
**Conducted Spurs Average, 5690 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

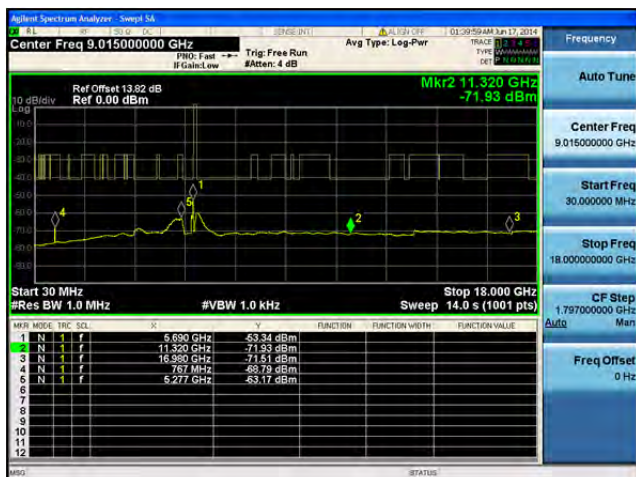
**Conducted Spurs Average, 5690 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5690 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1****Antenna A**

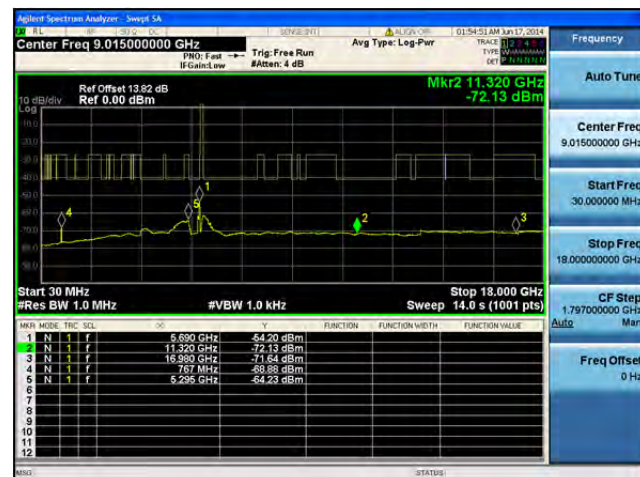
**Conducted Spurs Average, 5690 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

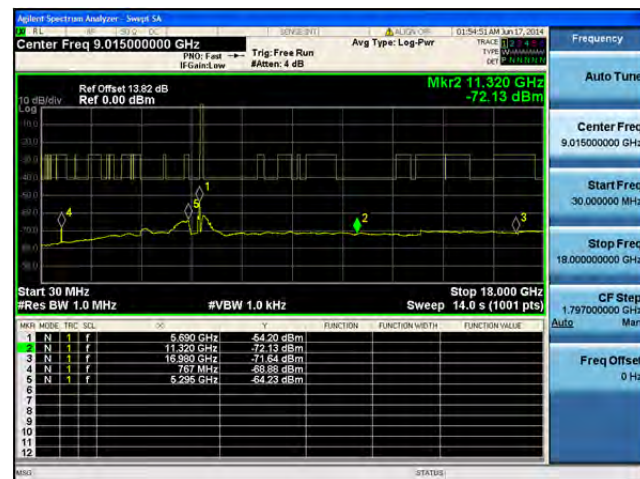
**Conducted Spurs Average, 5690 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

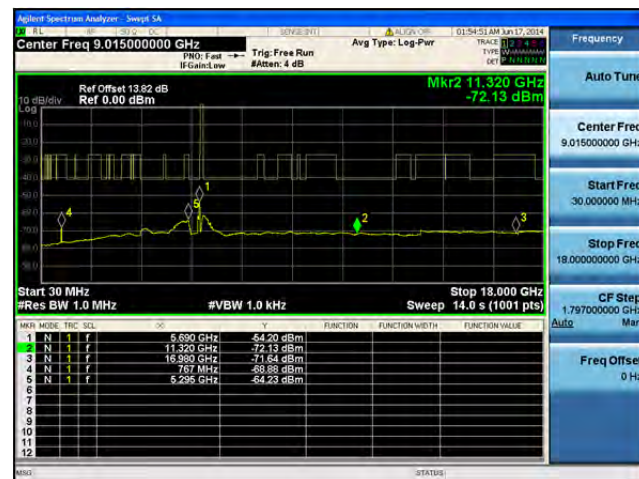
Conducted Spurs Average, 5690 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Conducted Spurs Average, 5690 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5690 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5690 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Spurs Average, 5690 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

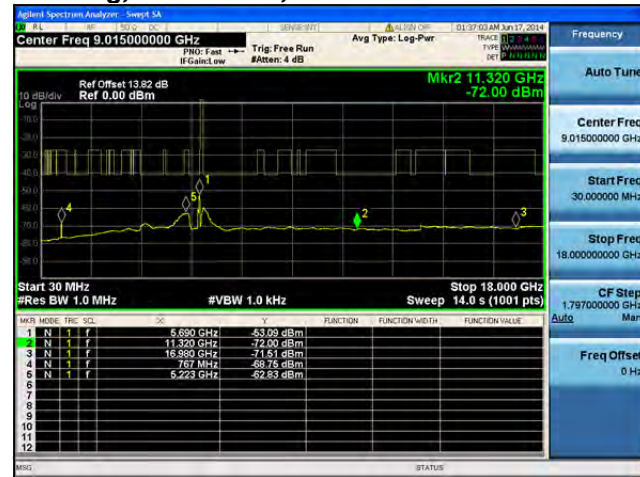
**Conducted Spurs Average, 5690 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

**Conducted Spurs Average, 5690 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

**Conducted Spurs Average, 5690 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B**

**Conducted Spurs Average, 5690 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5690 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5690 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**



Conducted Spurs Average, 5690 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C



Antenna D

**Conducted Spurs Average, 5690 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**



Conducted Spurs Average, 5690 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3



Antenna A



Antenna B



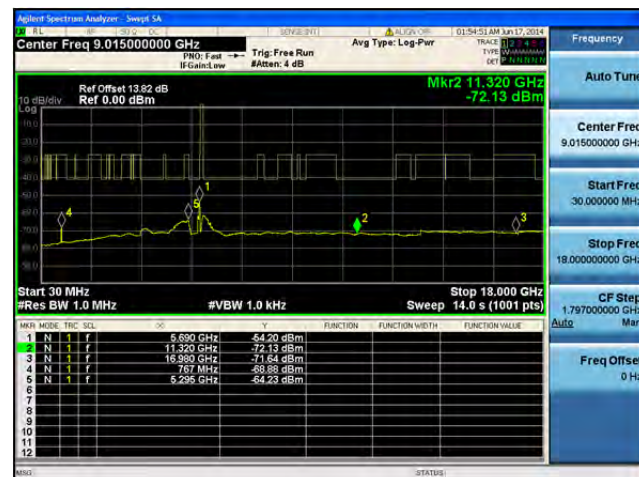
Antenna C



Antenna D

**Conducted Spurs Average, 5690 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

**Conducted Spurs Average, 5690 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Conducted Spurs Average, 5690 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

Conducted Spurs Average, 5710 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A**

**Conducted Spurs Average, 5710 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A****Antenna B**