

Appendix A1: Emission Bandwidth

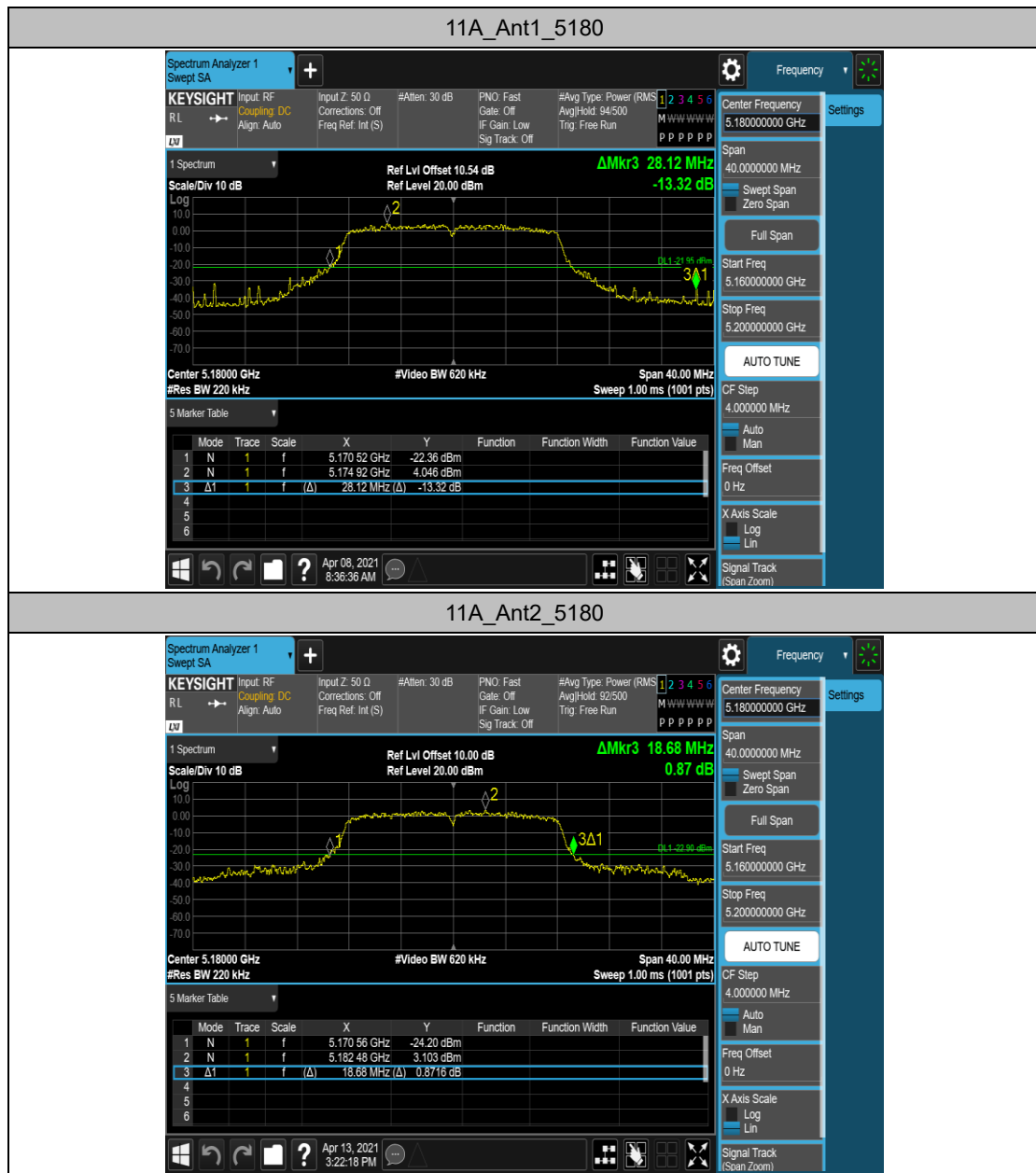
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.640	5170.520	5189.160	---	PASS
	Ant2	5180	18.680	5170.560	5189.240	---	PASS
	Ant1	5200	18.840	5190.360	5209.200	---	PASS
	Ant2	5200	18.880	5190.320	5209.200	---	PASS
	Ant1	5240	18.840	5230.400	5249.240	---	PASS
	Ant2	5240	18.840	5230.440	5249.280	---	PASS
	Ant1	5745	18.640	5735.560	5754.200	---	PASS
	Ant2	5745	19.320	5734.800	5754.120	---	PASS
	Ant1	5785	18.800	5775.400	5794.200	---	PASS
	Ant2	5785	18.840	5775.400	5794.240	---	PASS
	Ant1	5825	18.600	5815.840	5834.440	---	PASS
	Ant2	5825	18.720	5815.680	5834.400	---	PASS
11N20SISO	Ant1	5180	19.400	5170.320	5189.720	---	PASS
	Ant2	5180	19.720	5170.120	5189.840	---	PASS
	Ant1	5200	19.720	5190.080	5209.800	---	PASS
	Ant2	5200	19.480	5190.160	5209.640	---	PASS
	Ant1	5240	19.640	5230.160	5249.800	---	PASS
	Ant2	5240	19.560	5230.080	5249.640	---	PASS
	Ant1	5745	19.480	5735.200	5754.680	---	PASS
	Ant2	5745	19.880	5735.080	5754.960	---	PASS
	Ant1	5785	19.760	5775.080	5794.840	---	PASS
	Ant2	5785	19.760	5775.080	5794.840	---	PASS
	Ant1	5825	20.080	5814.720	5834.800	---	PASS
	Ant2	5825	19.520	5815.240	5834.760	---	PASS
11N40SISO	Ant1	5190	40.160	5169.600	5209.760	---	PASS
	Ant2	5190	40.000	5170.000	5210.000	---	PASS
	Ant1	5230	40.160	5210.080	5250.240	---	PASS
	Ant2	5230	39.600	5210.160	5249.760	---	PASS
	Ant1	5755	40.640	5734.840	5775.480	---	PASS
	Ant2	5755	41.360	5734.840	5776.200	---	PASS
	Ant1	5795	39.840	5774.920	5814.760	---	PASS
	Ant2	5795	42.800	5774.840	5817.640	---	PASS
11N20MIMO	Ant1	5180	19.880	5170.080	5189.960	---	PASS
	Ant2	5180	19.360	5170.280	5189.640	---	PASS
	Ant1	5200	20.240	5189.720	5209.960	---	PASS
	Ant2	5200	19.600	5190.200	5209.800	---	PASS
	Ant1	5240	19.640	5230.160	5249.800	---	PASS

	Ant2	5240	19.720	5230.200	5249.920	---	PASS
	Ant1	5745	19.760	5735.120	5754.880	---	PASS
	Ant2	5745	19.600	5735.160	5754.760	---	PASS
	Ant1	5785	19.680	5775.120	5794.800	---	PASS
	Ant2	5785	19.320	5775.320	5794.640	---	PASS
	Ant1	5825	19.440	5815.240	5834.680	---	PASS
	Ant2	5825	19.400	5815.360	5834.760	---	PASS
11N40MIMO	Ant1	5190	40.080	5170.000	5210.080	---	PASS
	Ant2	5190	39.760	5170.000	5209.760	---	PASS
	Ant1	5230	40.400	5210.000	5250.400	---	PASS
	Ant2	5230	40.560	5209.600	5250.160	---	PASS
	Ant1	5755	40.640	5734.920	5775.560	---	PASS
	Ant2	5755	40.800	5734.680	5775.480	---	PASS
	Ant1	5795	41.120	5774.680	5815.800	---	PASS
11AC20SISO	Ant2	5795	40.240	5775.160	5815.400	---	PASS
	Ant1	5180	20.200	5169.640	5189.840	---	PASS
	Ant2	5180	19.640	5170.160	5189.800	---	PASS
	Ant1	5200	19.640	5190.120	5209.760	---	PASS
	Ant2	5200	20.000	5190.080	5210.080	---	PASS
	Ant1	5240	19.680	5230.160	5249.840	---	PASS
	Ant2	5240	19.640	5230.160	5249.800	---	PASS
	Ant1	5745	19.480	5735.160	5754.640	---	PASS
	Ant2	5745	19.440	5735.280	5754.720	---	PASS
	Ant1	5785	19.800	5775.120	5794.920	---	PASS
	Ant2	5785	19.600	5775.160	5794.760	---	PASS
	Ant1	5825	20.000	5814.760	5834.760	---	PASS
	Ant2	5825	19.680	5815.040	5834.720	---	PASS
11AC40SISO	Ant1	5190	42.800	5167.920	5210.720	---	PASS
	Ant2	5190	40.240	5169.760	5210.000	---	PASS
	Ant1	5230	40.000	5210.160	5250.160	---	PASS
	Ant2	5230	41.280	5208.880	5250.160	---	PASS
	Ant1	5755	40.480	5734.840	5775.320	---	PASS
	Ant2	5755	39.840	5735.160	5775.000	---	PASS
	Ant1	5795	40.240	5775.080	5815.320	---	PASS
	Ant2	5795	40.720	5774.680	5815.400	---	PASS
11AC80SISO	Ant1	5210	82.560	5169.200	5251.760	---	PASS
	Ant2	5210	80.800	5169.680	5250.480	---	PASS
	Ant1	5775	82.560	5733.880	5816.440	---	PASS
	Ant2	5775	81.280	5734.520	5815.800	---	PASS
11AC20MIMO	Ant1	5180	19.440	5170.280	5189.720	---	PASS
	Ant2	5180	19.680	5170.200	5189.880	---	PASS
	Ant1	5200	19.600	5190.120	5209.720	---	PASS
	Ant2	5200	19.640	5190.200	5209.840	---	PASS

	Ant1	5240	19.720	5230.120	5249.840	---	PASS
	Ant2	5240	19.640	5230.200	5249.840	---	PASS
	Ant1	5745	19.880	5734.960	5754.840	---	PASS
	Ant2	5745	19.400	5735.240	5754.640	---	PASS
	Ant1	5785	20.120	5774.680	5794.800	---	PASS
	Ant2	5785	19.640	5775.200	5794.840	---	PASS
	Ant1	5825	19.960	5814.880	5834.840	---	PASS
	Ant2	5825	19.240	5815.400	5834.640	---	PASS
11AC40MIMO	Ant1	5190	39.840	5169.920	5209.760	---	PASS
	Ant2	5190	40.000	5170.080	5210.080	---	PASS
	Ant1	5230	40.160	5210.000	5250.160	---	PASS
	Ant2	5230	39.920	5210.160	5250.080	---	PASS
	Ant1	5755	40.320	5734.840	5775.160	---	PASS
	Ant2	5755	39.840	5735.320	5775.160	---	PASS
	Ant1	5795	40.240	5775.240	5815.480	---	PASS
	Ant2	5795	39.840	5775.480	5815.320	---	PASS
11AC80MIMO	Ant1	5210	83.200	5169.040	5252.240	---	PASS
	Ant2	5210	81.760	5169.200	5250.960	---	PASS
	Ant1	5775	82.240	5734.360	5816.600	---	PASS
	Ant2	5775	80.320	5735.000	5815.320	---	PASS

Test Graphs



11A_Ant1_5200



11A_Ant2_5200



11A_Ant1_5240



11A_Ant2_5240



11A_Ant1_5745



11A_Ant2_5745



11A_Ant1_5785



11A_Ant2_5785



11A_Ant1_5825



11A_Ant2_5825



11N20SISO_Ant1_5180



11N20SISO_Ant2_5180



11N20SISO_Ant1_5200



11N20SISO_Ant2_5200



11N20SISO_Ant1_5240



11N20SISO_Ant2_5240



11N20SISO_Ant1_5745



11N20SISO_Ant2_5745



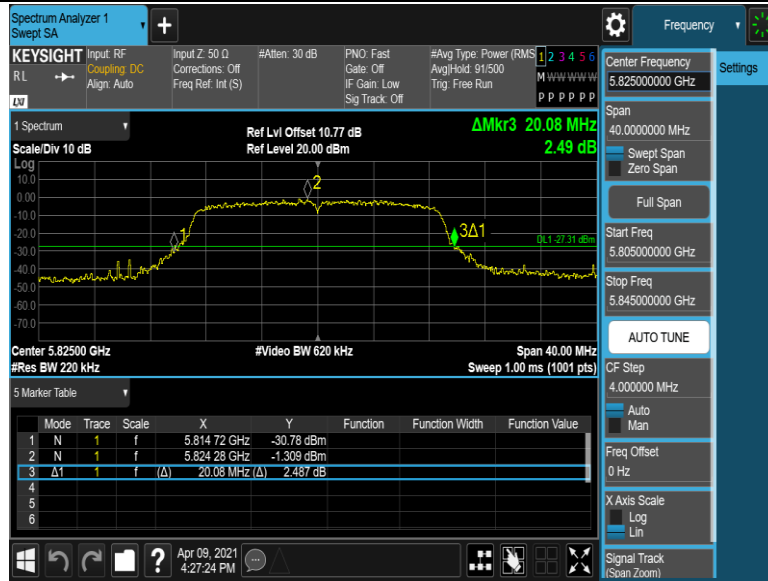
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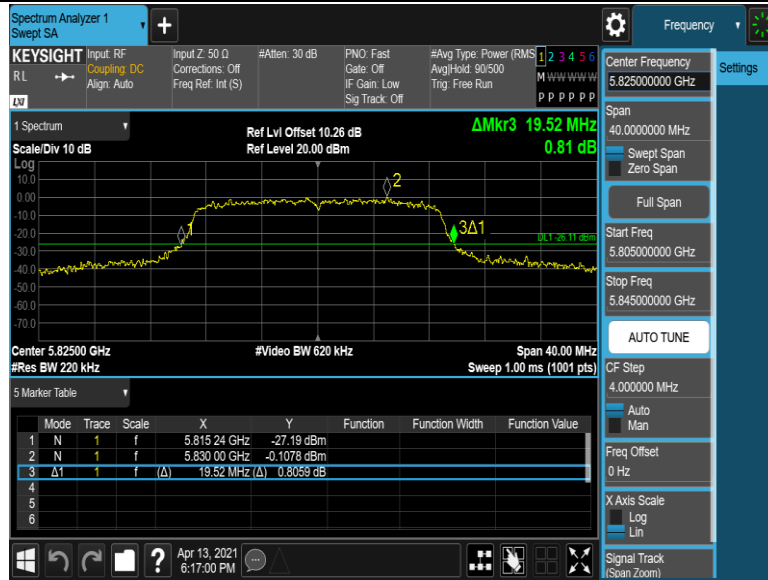
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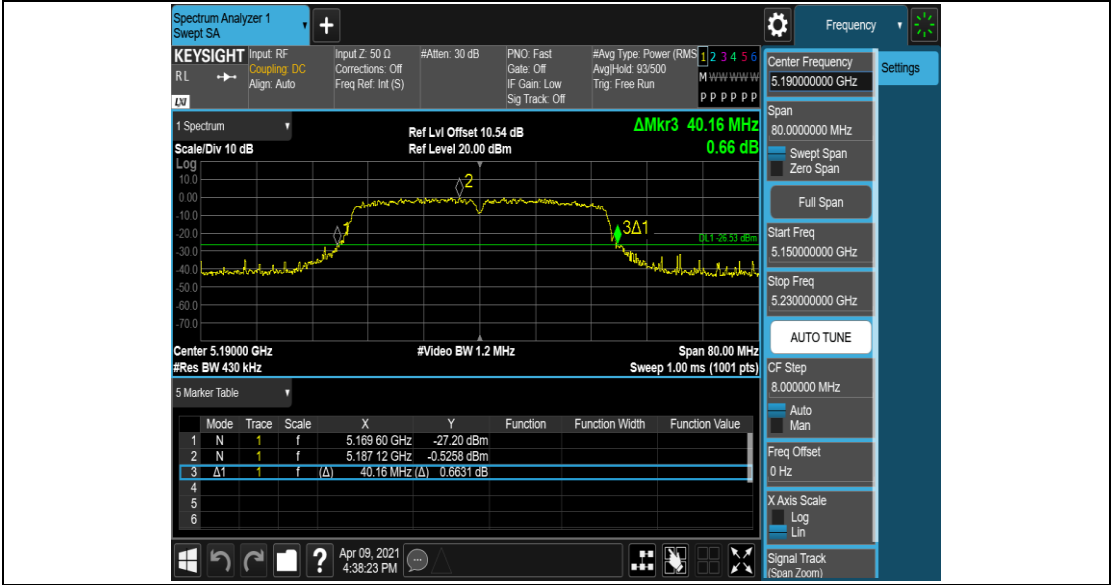
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11N20SISO_Ant2_5825



11N40SISO_Ant1_5190



11N40SISO_Ant2_5190



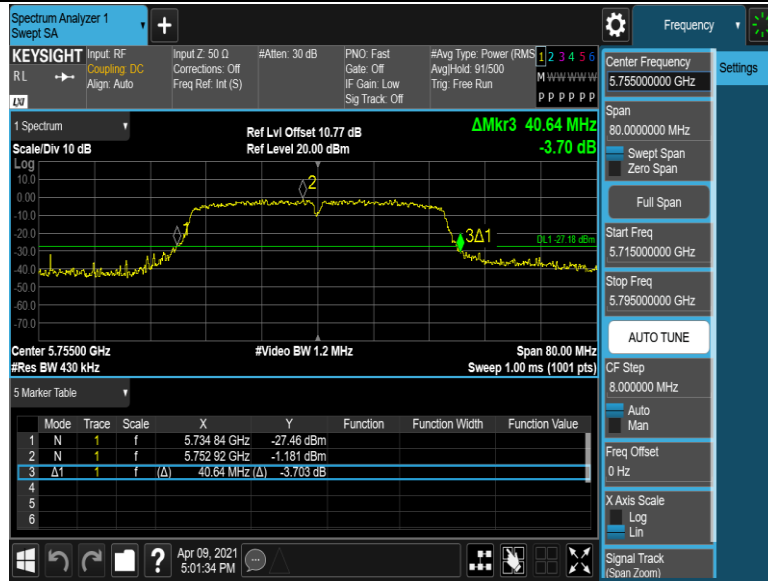
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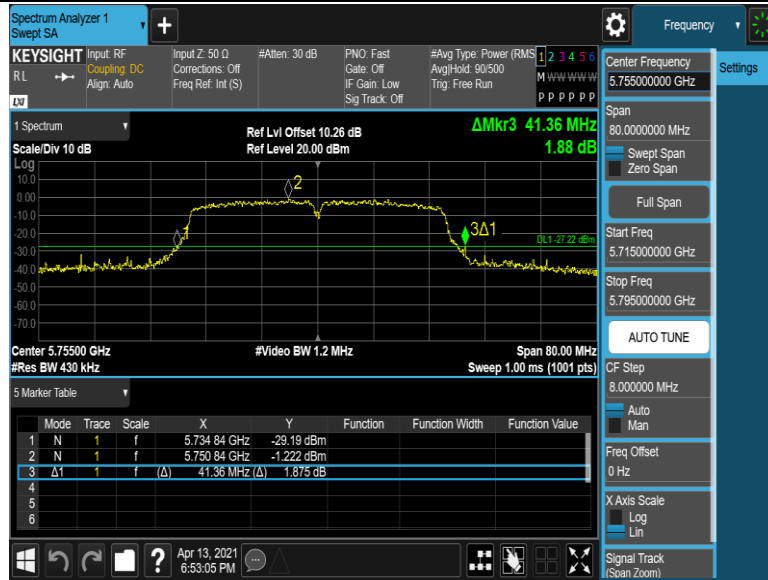
11N40SISO_Ant2_5230



11N40SISO_Ant1_5755



11N40SISO_Ant2_5755



11N40SISO_Ant1_5795



11N40SISO_Ant2_5795



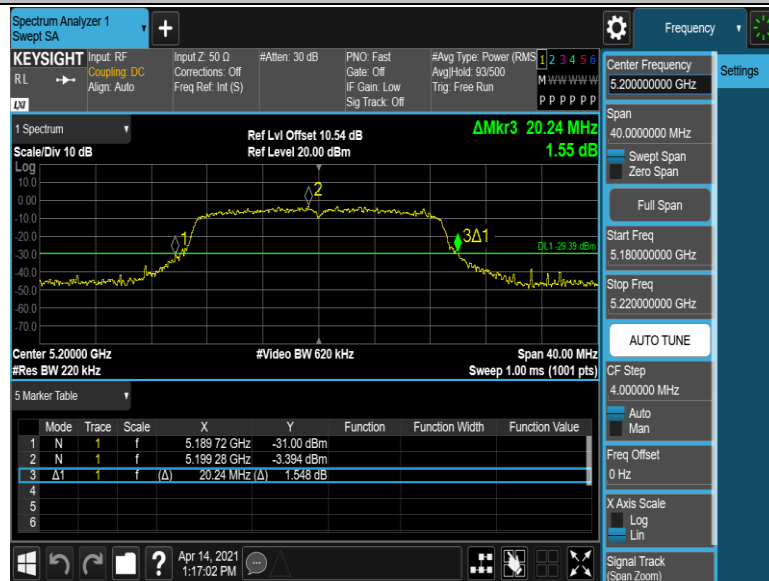
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11N20MIMO_Ant2_5180



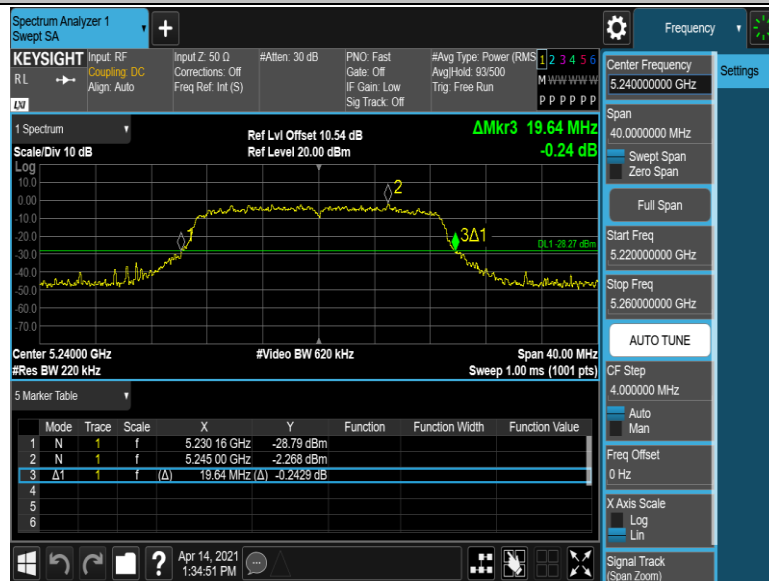
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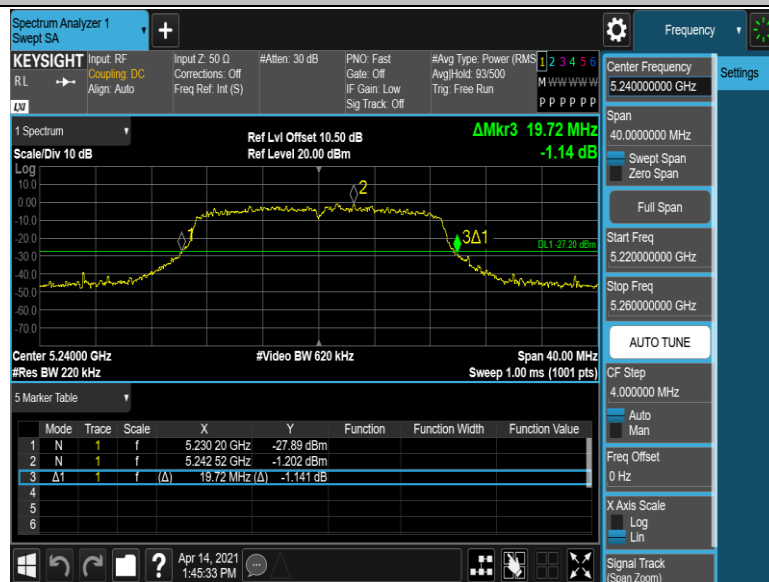
11N20MIMO_Ant2_5200



11N20MIMO_Ant1_5240



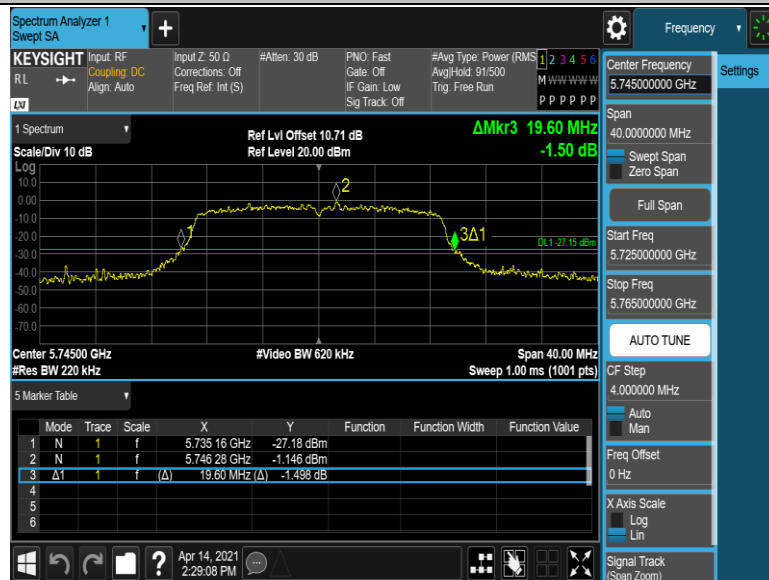
11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5745



11N20MIMO_Ant2_5745



11N20MIMO_Ant1_5785



11N20MIMO_Ant2_5785



11N20MIMO_Ant1_5825

Spectrum Analyzer 1
Swept SA

KEYSIGHT
RL
LN

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)

#Atten: 30 dB

PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off

#Avg Type: Power (RMS)
Avg/Hold: 91/500
Trig: Free Run

M 2 3 4 5 6
M W W W W W
P P P P P P

Center Frequency
5.825000000 GHz

Span
40.00000000 MHz

Sweep Span
Zero Span

Full Span

Start Freq
5.805000000 GHz

Stop Freq
5.845000000 GHz

AUTO TUNE

CF Step
4.000000 MHz

Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

Signal Track
(Span Zoom)

1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 10.77 dB
Ref Level 20.00 dBm
AMkr3 19.44 MHz
-0.18 dB
OKT 27.35 dBm

Center 5.82500 GHz
#Res BW 220 kHz
#Video BW 620 kHz
Span 40.00 MHz
Sweep 1.00 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	5.815 24 GHz	-27.94 dBm			
2	N	1	f	5.828 72 GHz	-1.348 dBm			
3	Δ 1	1	f (Δ)	19.44 MHz (Δ)	-0.1809 dB			
4								
5								
6								

Windows icons: Start, Back, Forward, Home, Search, Task View, Network, Volume, Battery, Time (Apr 14, 2021 3:10:48 PM)

Spectrum Analyzer 1
Sweep SA

KEYSIGHT Input: RF Coupling: DC Corrections: Off Freq Ref: Int (S) PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Atten: 30 dB #Avg Type: Power (RMS) Avg/Hold: 91/500 Trig: Free Run M WWW WWW P P P P P P

1 Spectrum Scale/Div 10 dB Ref Lvl Offset 10.76 dB Δ Mkr3 19.40 MHz 0.24 dB Ref Level 20.00 dBm

Log 10 0.00 -10 -20 -30 -40 -50 -60 -70

Center 5.82500 GHz #Video BW 620 kHz Span 40.00 MHz Sweep 1.00 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	5.815 36 GHz	-26.03 dBm			
2	N	1	f	5.822 52 GHz	-0.2881 dBm			
3	Δ 1	1	f	Δ 19.40 MHz (Δ)	0.2359 dB			
4								
5								
6								

Center Frequency 5.825000000 GHz **Settings**

Span 40.00000000 MHz

Sweep Span Zero Span

Full Span

Start Freq 5.805000000 GHz

Stop Freq 5.845000000 GHz

AUTO TUNE

CF Step 4.000000 MHz

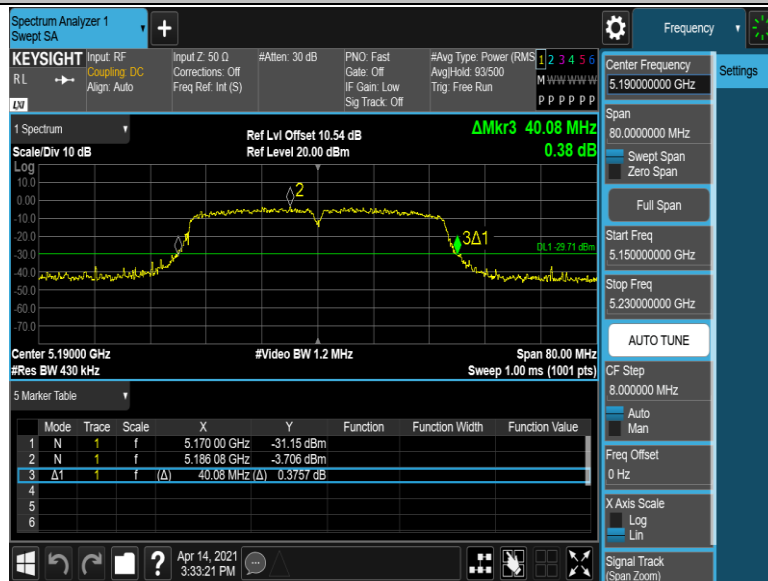
Auto **Man**

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

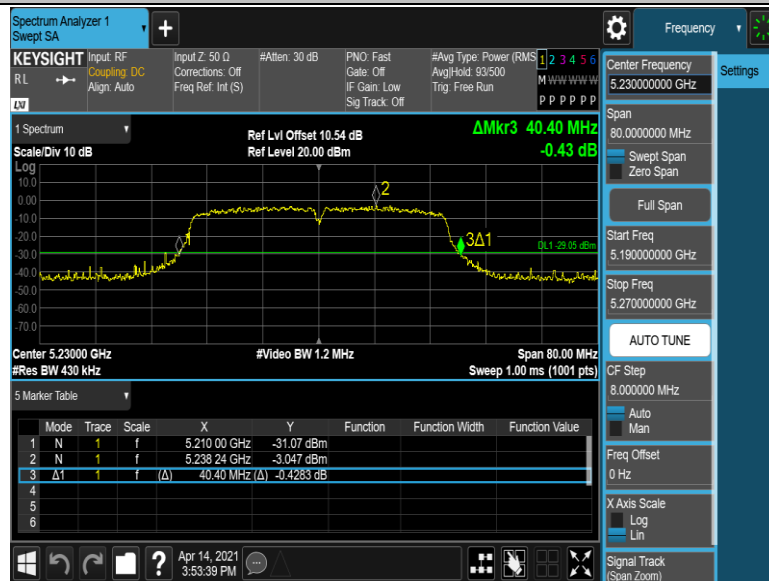
11N40MIMO_Ant1_5190



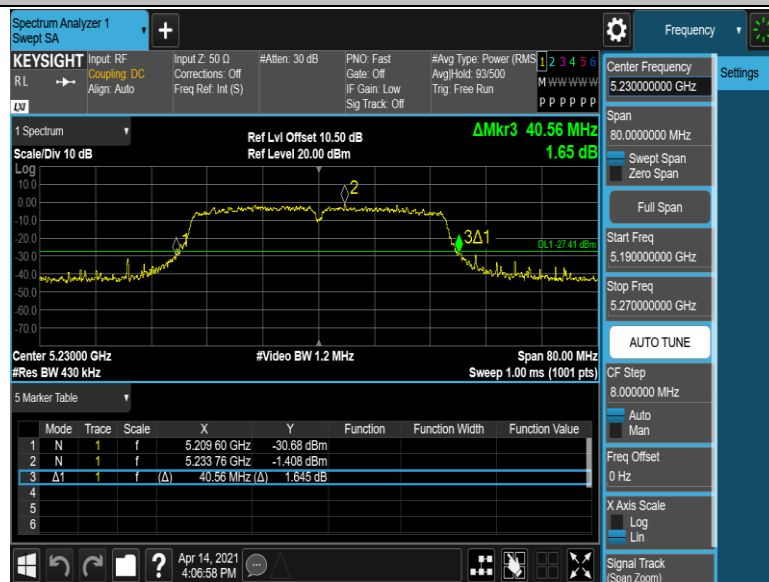
11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755



11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant2_5180

