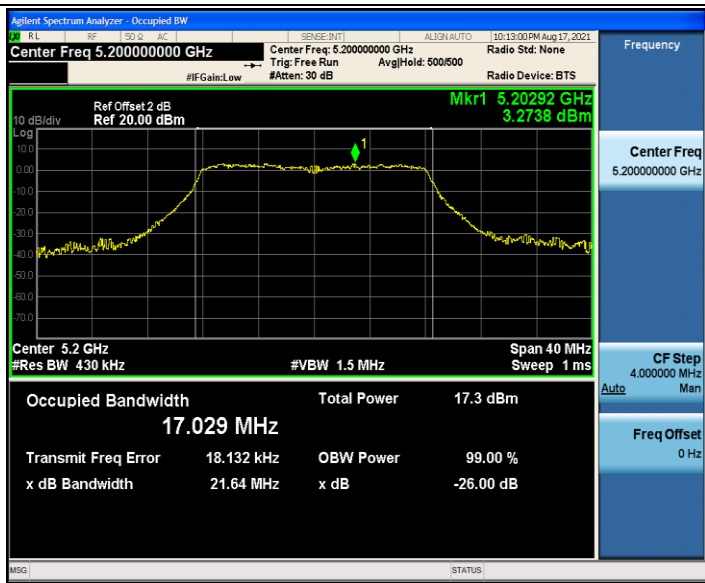
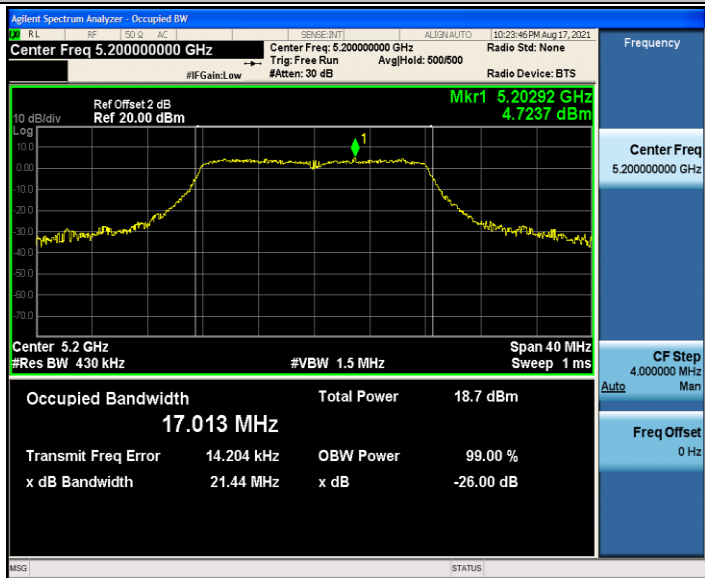
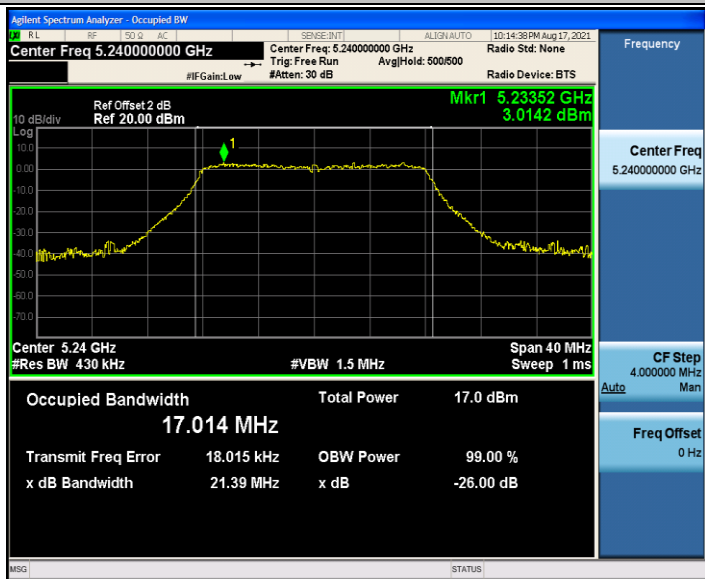




11A_Ant2_5200

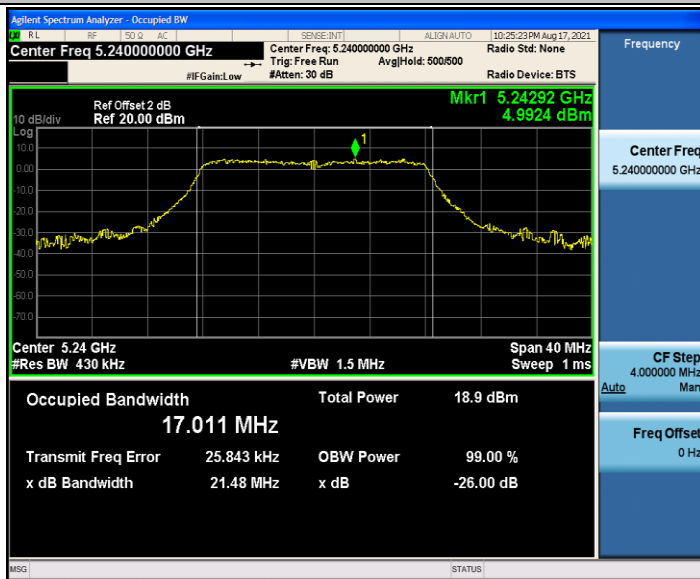


11A_Ant1_5240

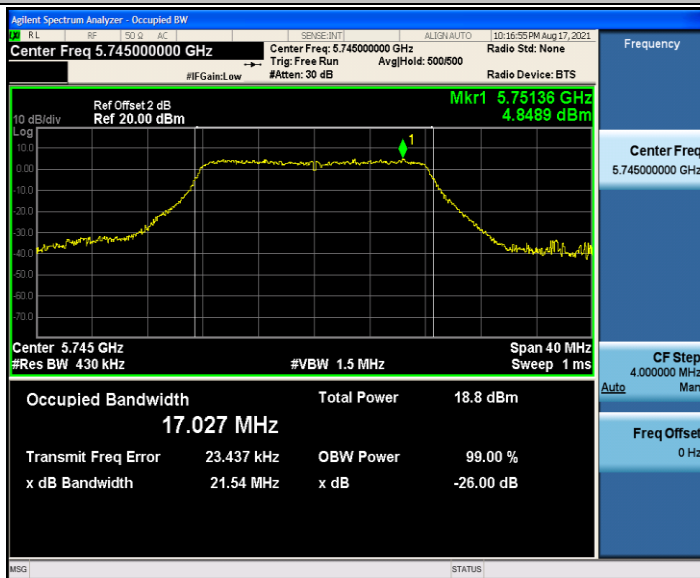




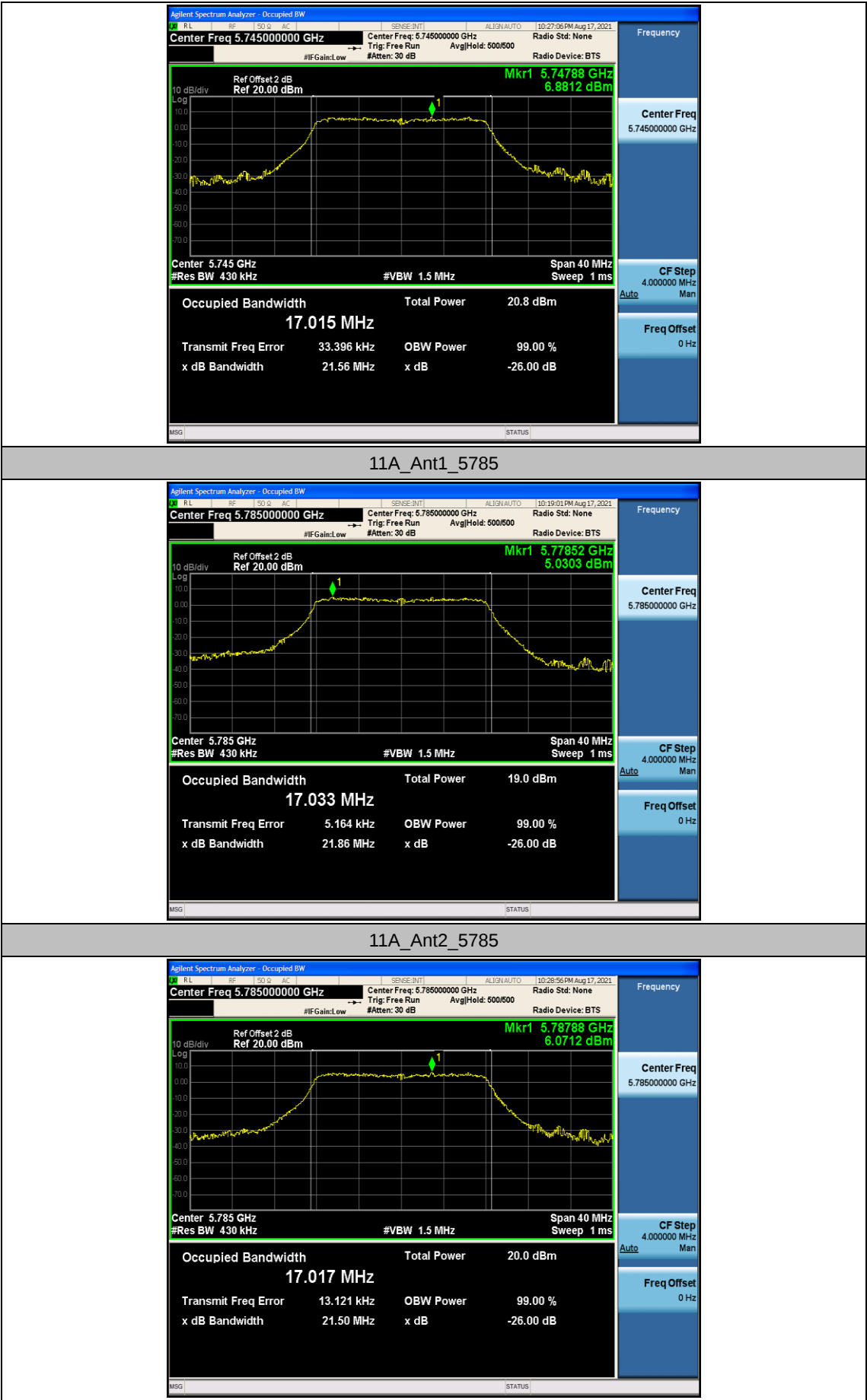
11A_Ant2_5240



11A_Ant1_5745

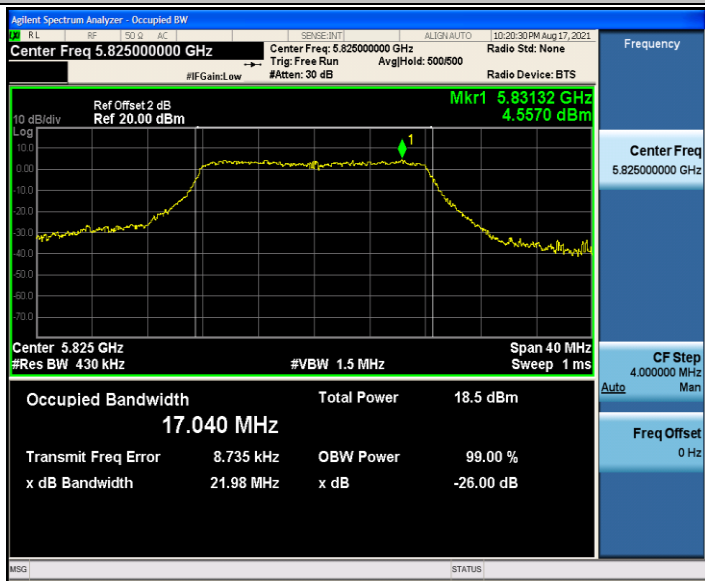


11A_Ant2_5745





11A_Ant1_5825



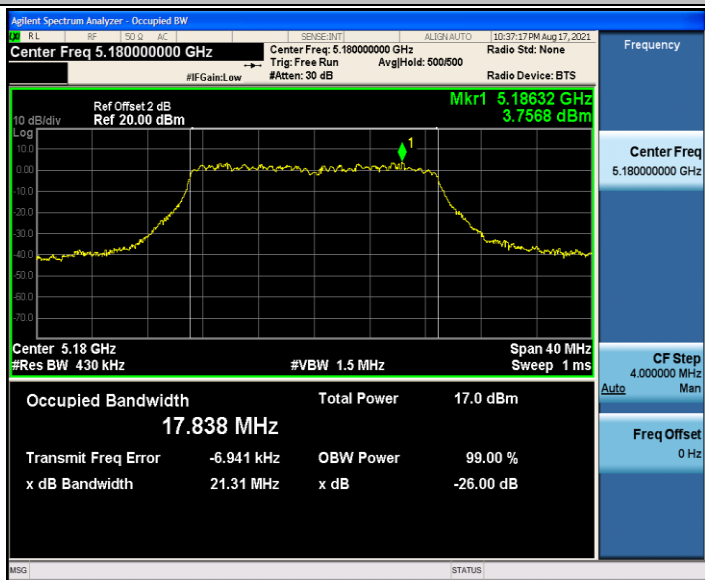
11A_Ant2_5825



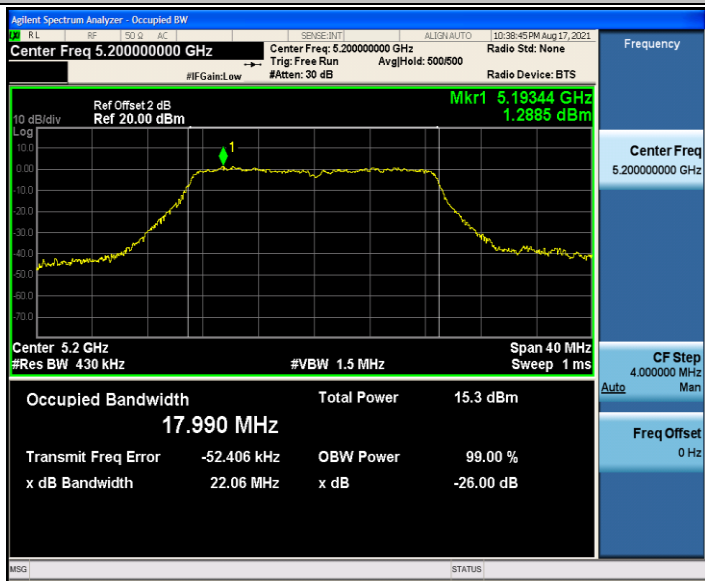
11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180

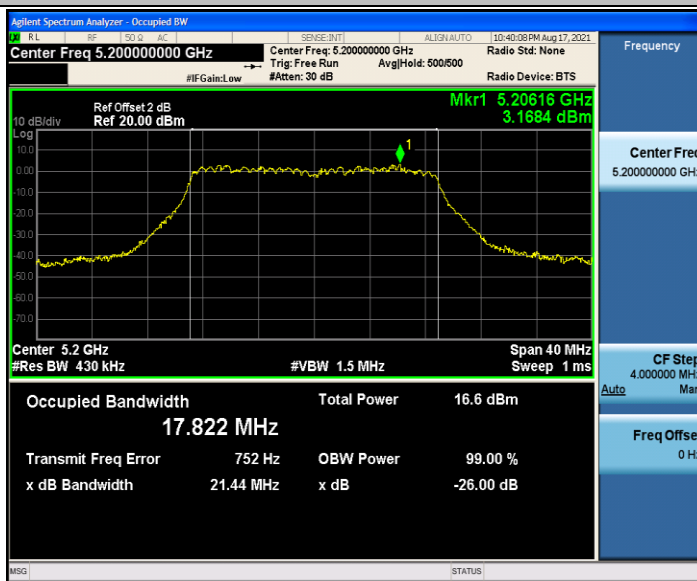


11N20MIMO_Ant1_5200

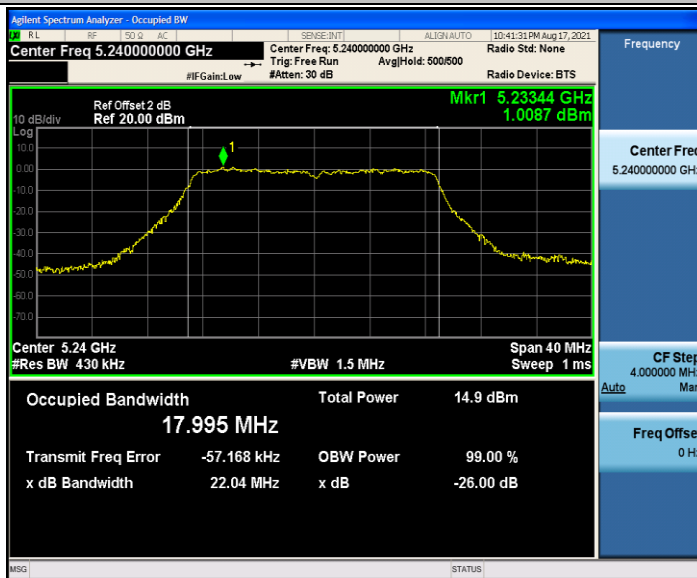




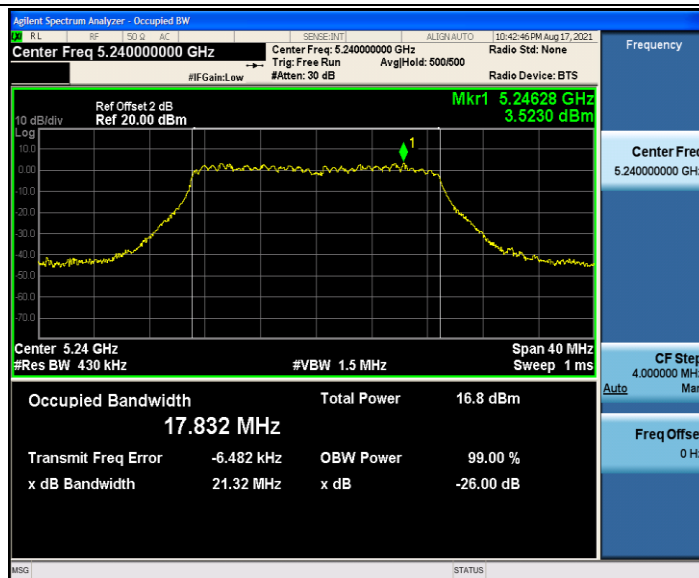
11N20MIMO_Ant2_5200



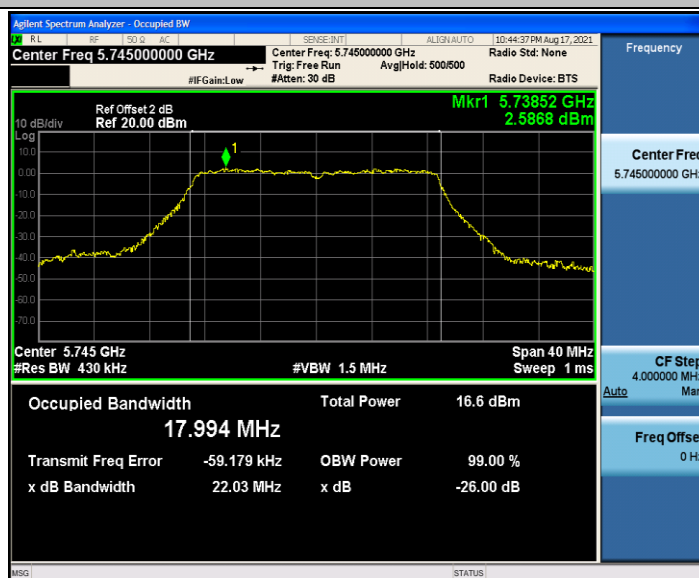
11N20MIMO_Ant1_5240



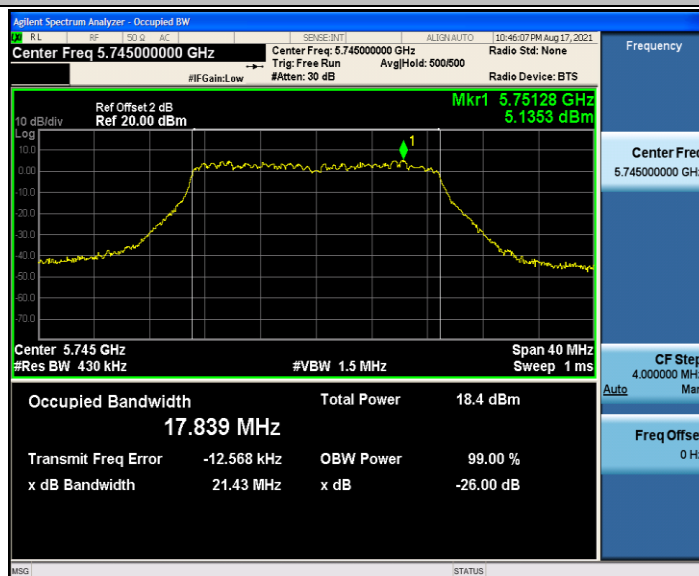
11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5745

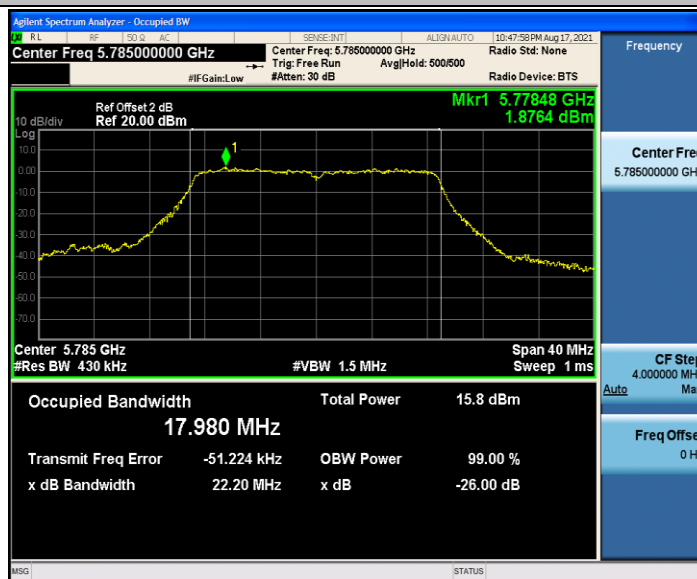


11N20MIMO_Ant2_5745

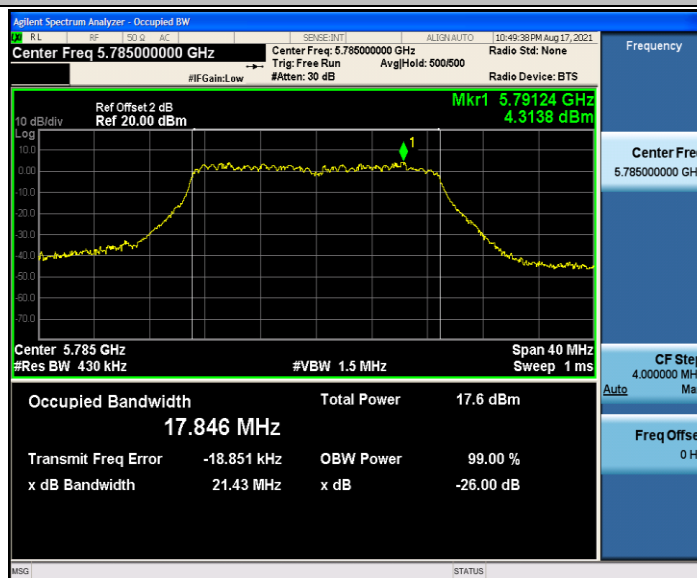




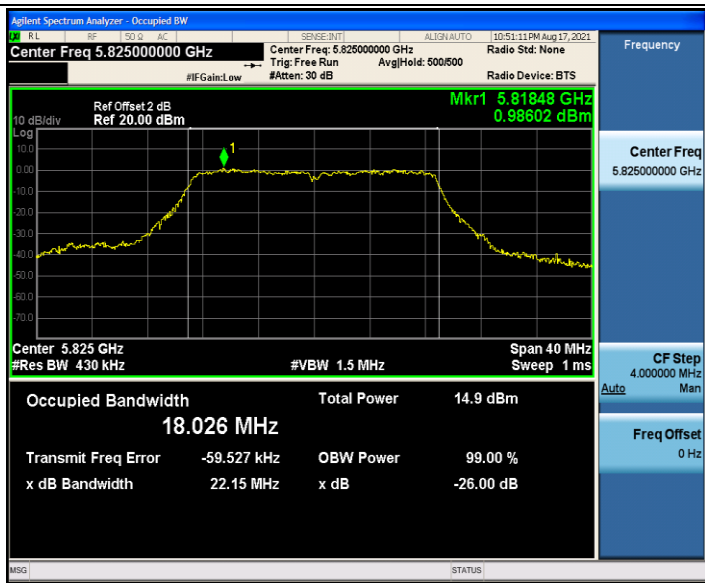
11N20MIMO_Ant1_5785



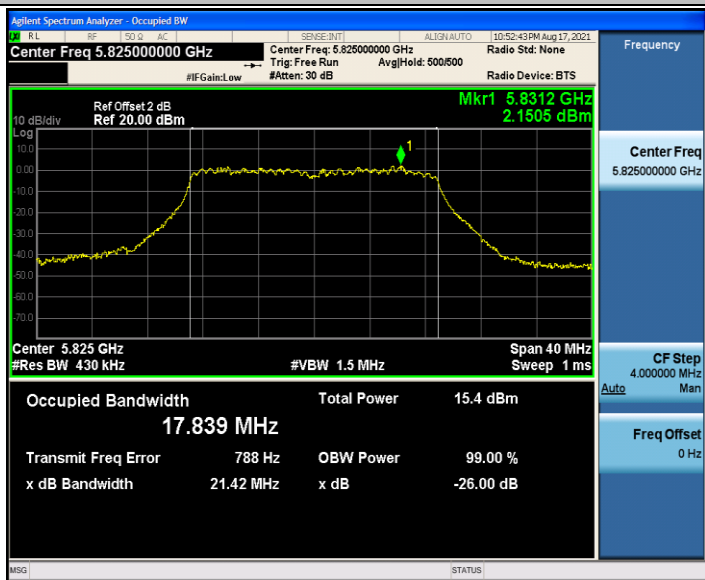
11N20MIMO_Ant2_5785



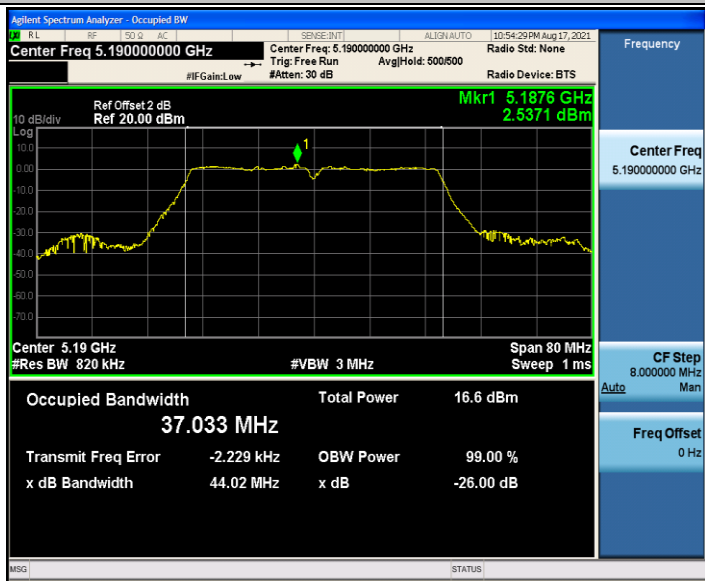
11N20MIMO_Ant1_5825



11N20MIMO_Ant2_5825

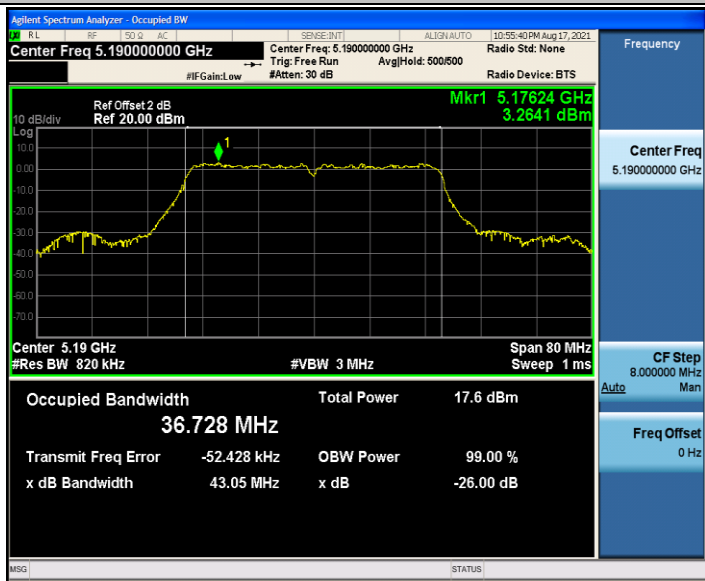


11N40MIMO_Ant1_5190

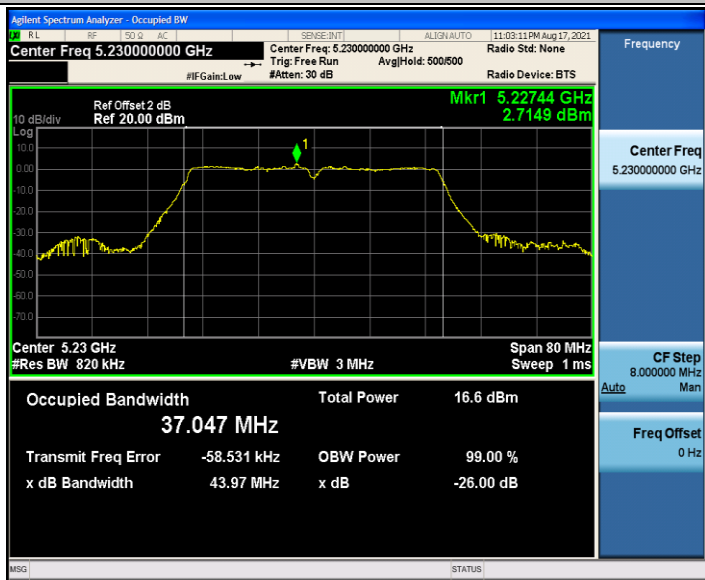




11N40MIMO_Ant2_5190



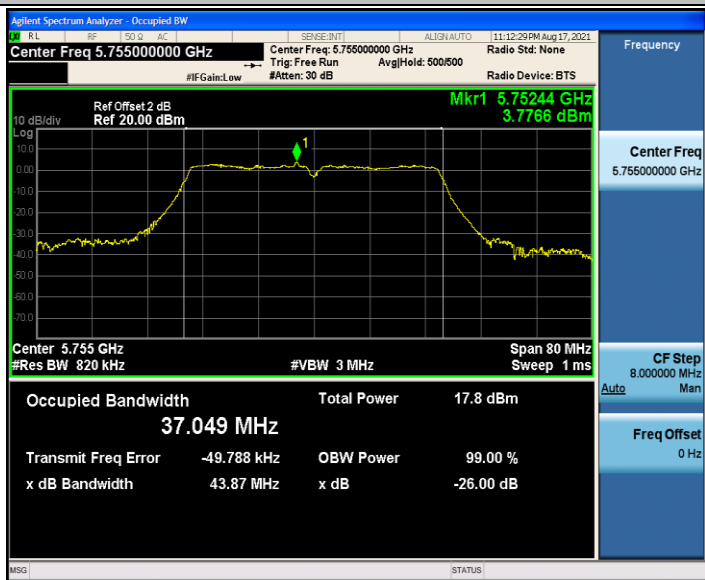
11N40MIMO_Ant1_5230



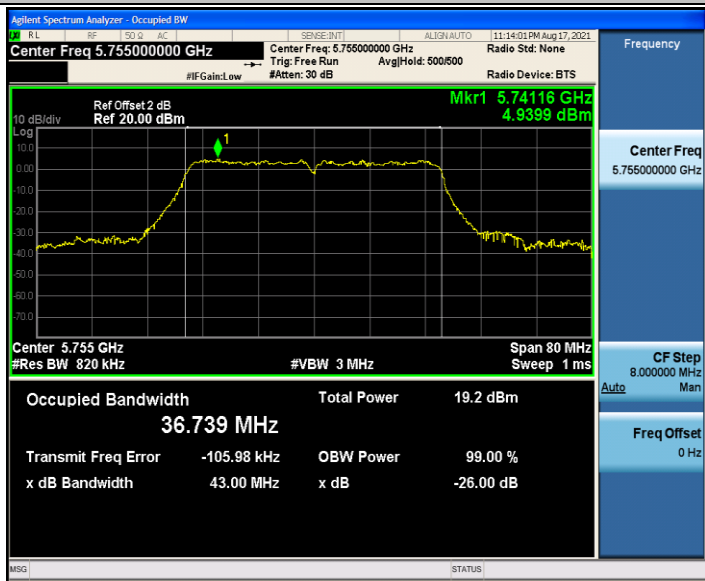
11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755





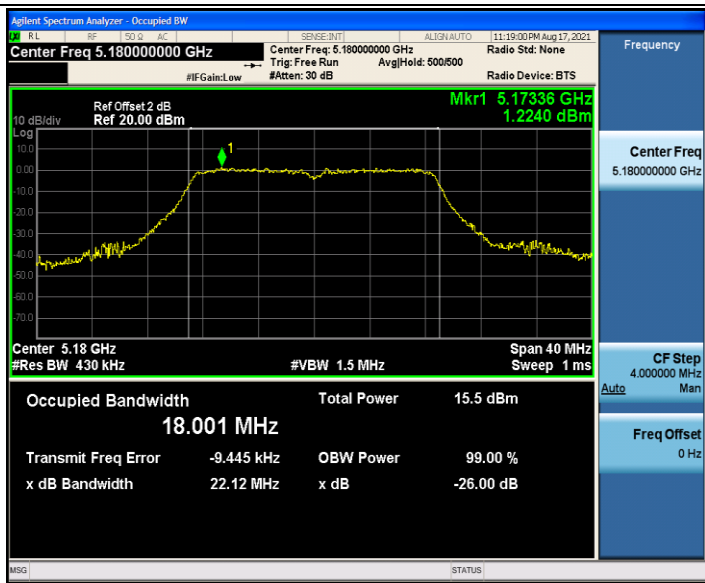
11N40MIMO_Ant1_5795



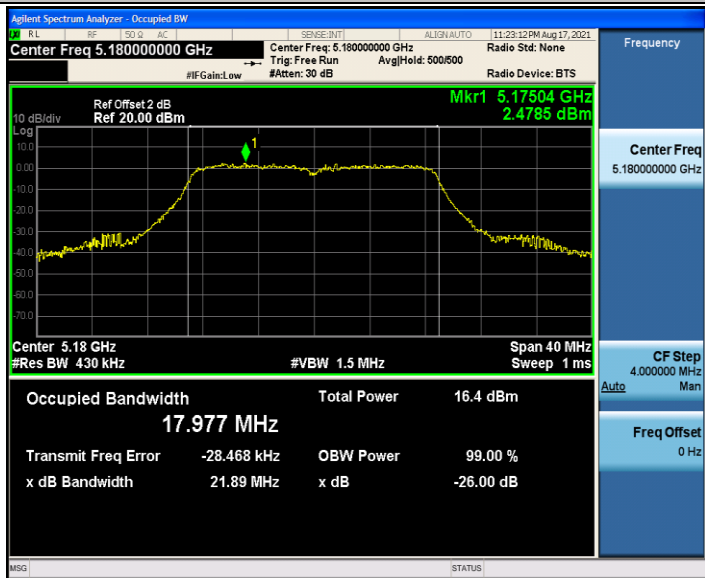
11N40MIMO_Ant2_5795



11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180

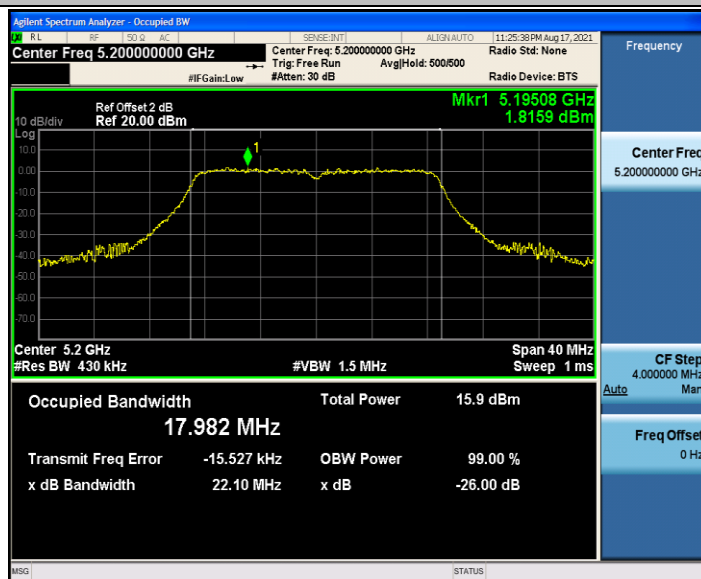


11AC20MIMO_Ant1_5200

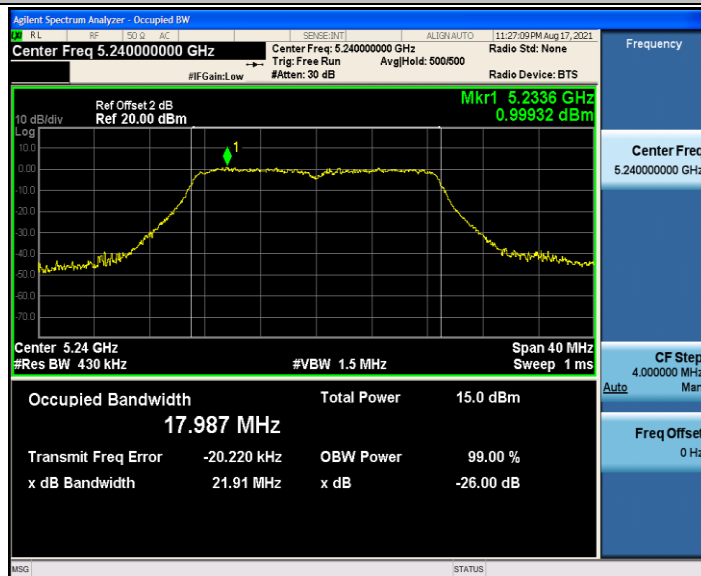




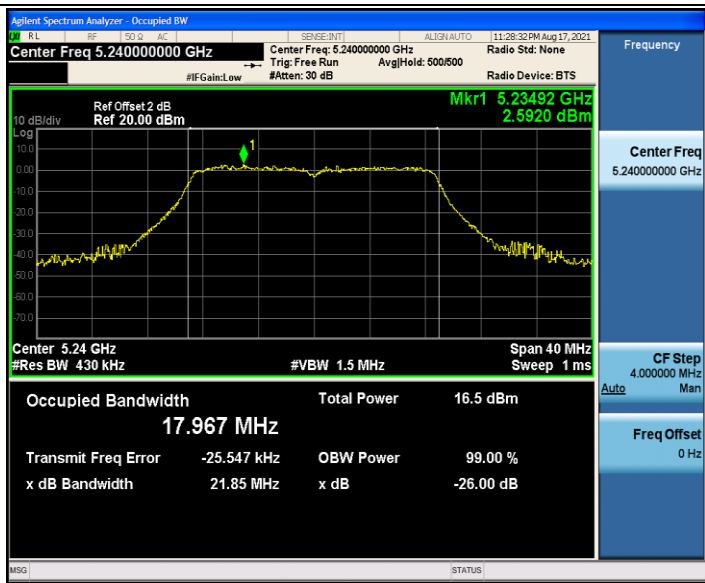
11AC20MIMO_Ant2_5200



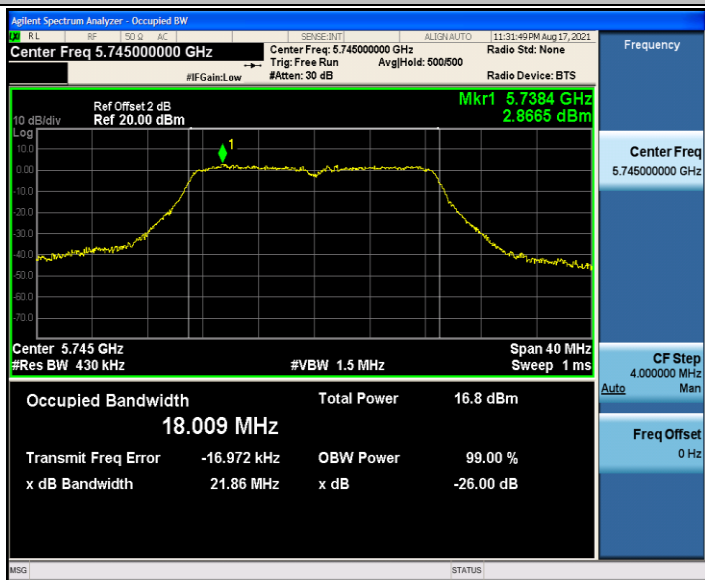
11AC20MIMO_Ant1_5240



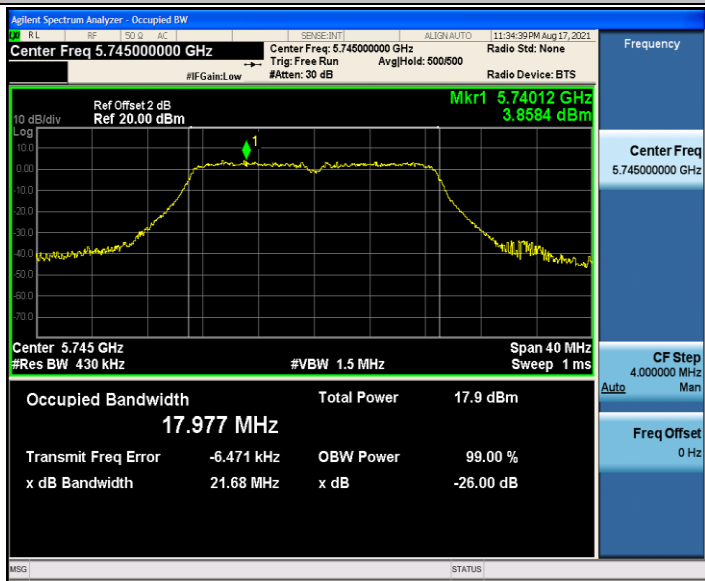
11AC20MIMO_Ant2_5240



11AC20MIMO_Ant1_5745

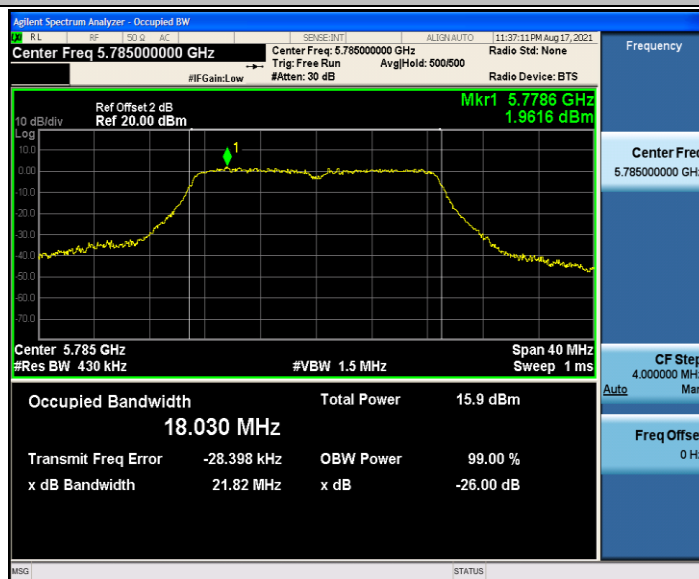


11AC20MIMO_Ant2_5745

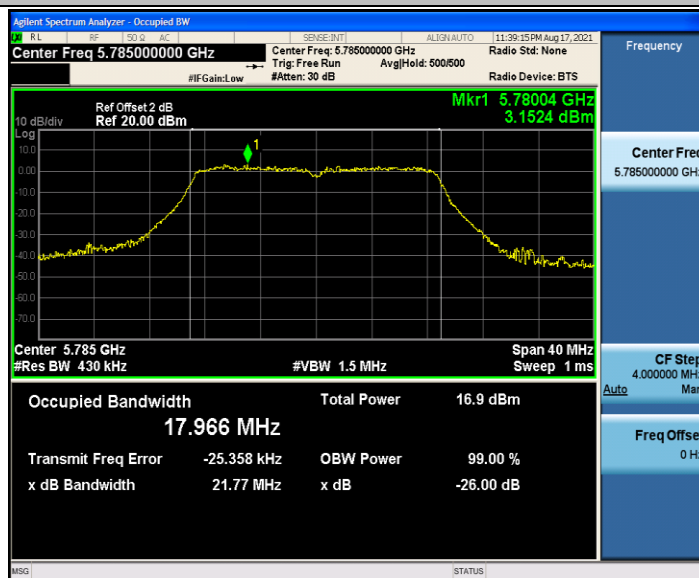




11AC20MIMO_Ant1_5785



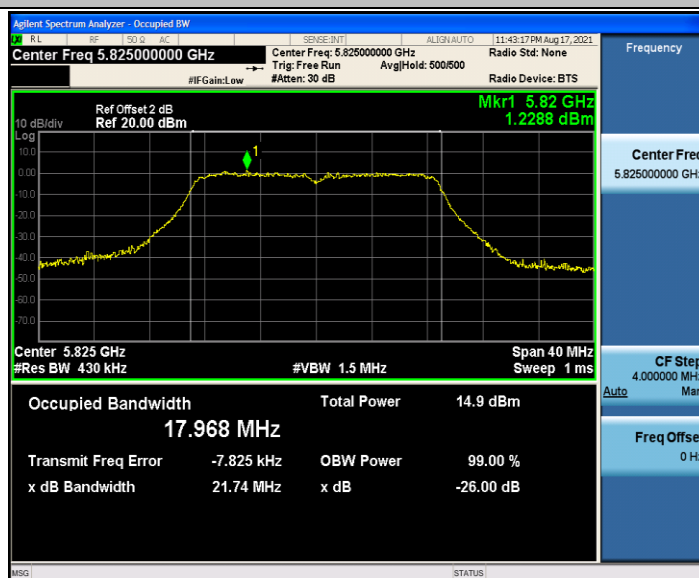
11AC20MIMO_Ant2_5785



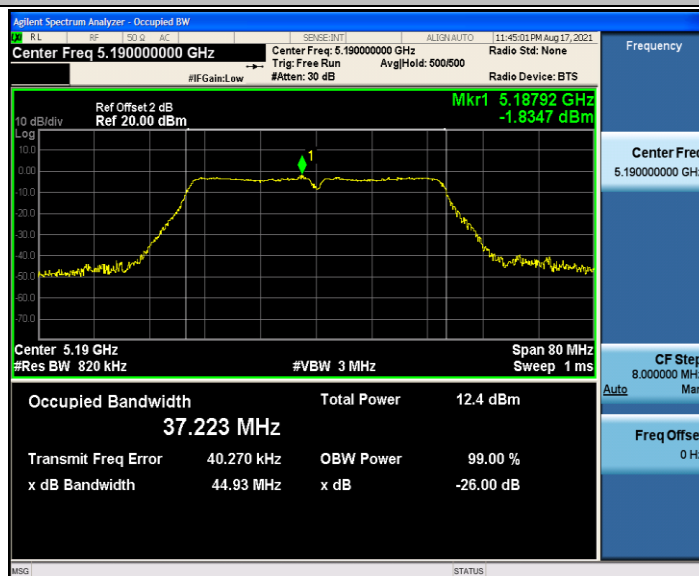
11AC20MIMO_Ant1_5825



11AC20MIMO_Ant2_5825

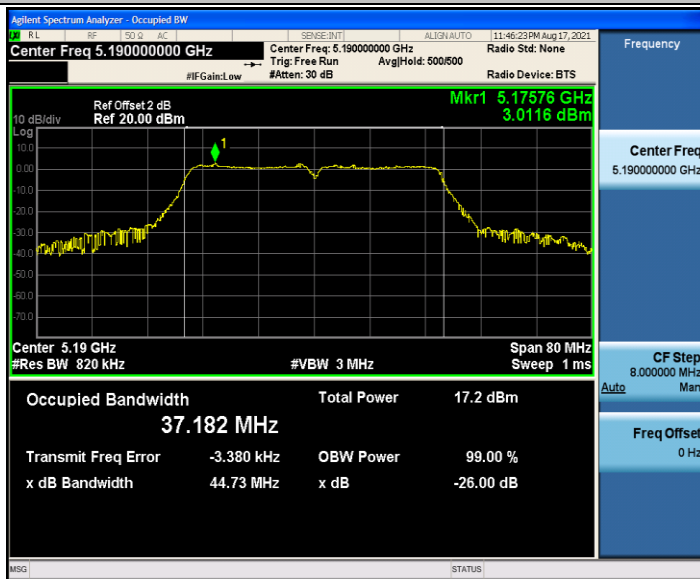


11AC40MIMO_Ant1_5190

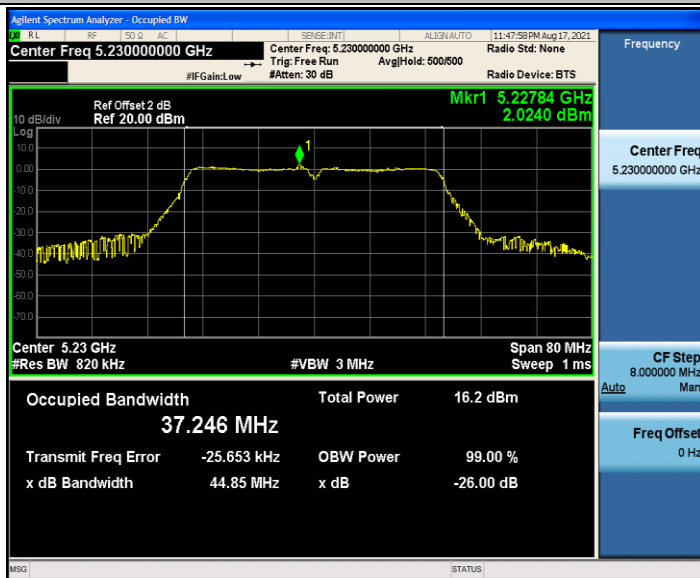




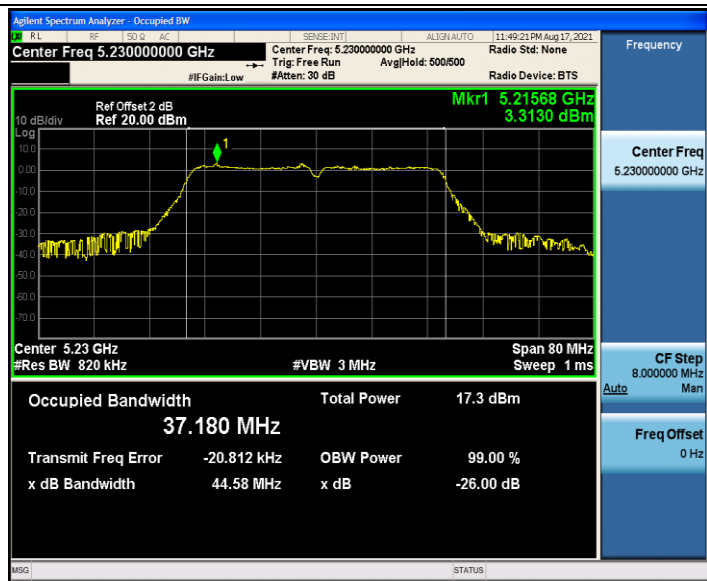
11AC40MIMO_Ant2_5190



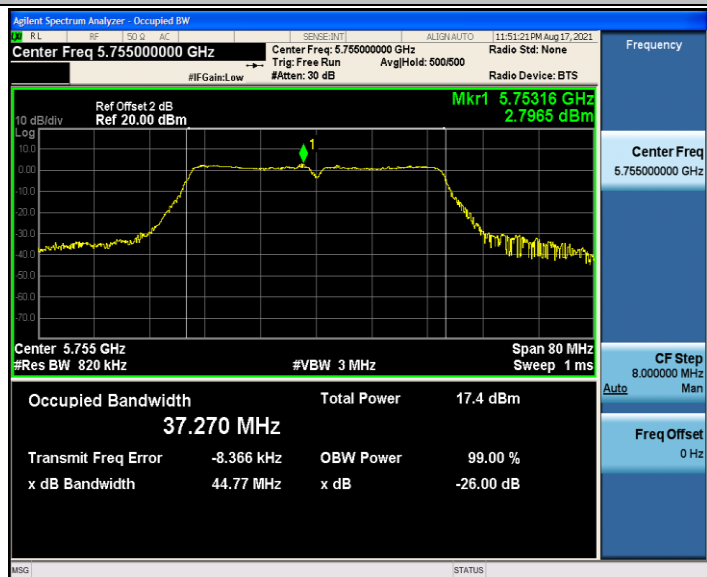
11AC40MIMO_Ant1_5230



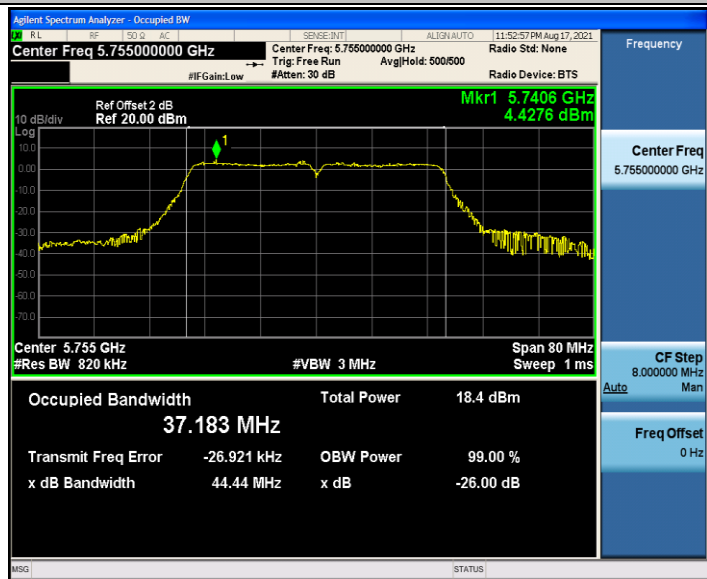
11AC40MIMO_Ant2_5230



11AC40MIMO_Ant1_5755

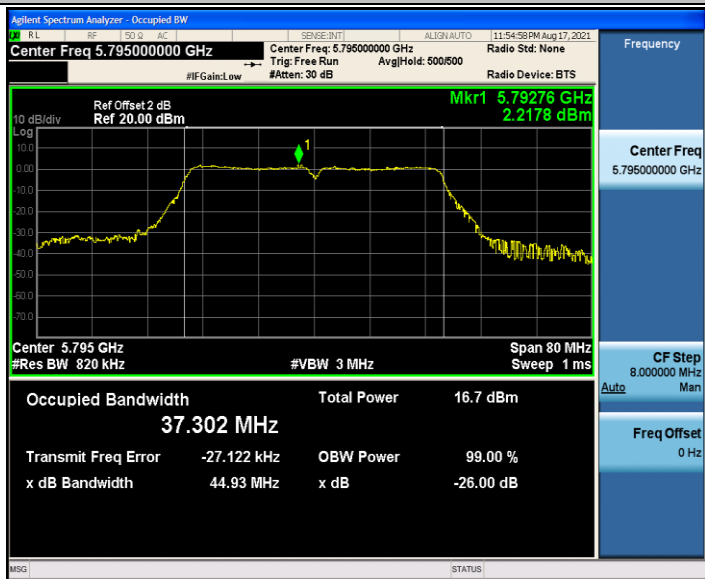


11AC40MIMO_Ant2_5755

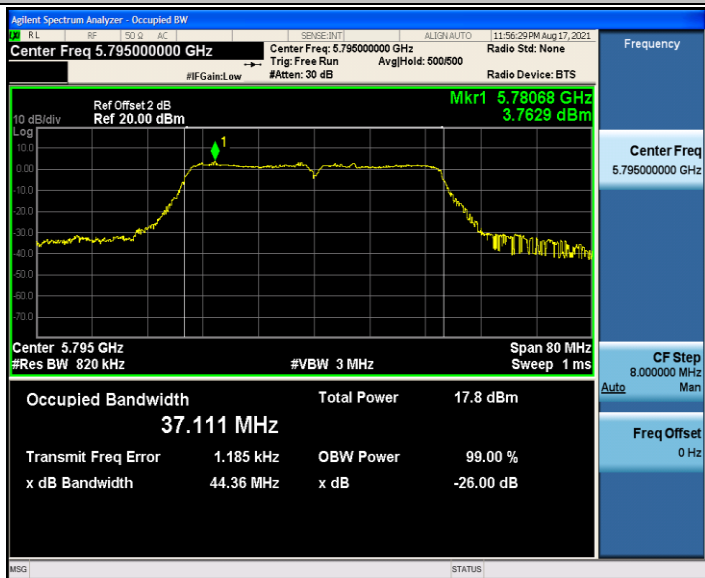




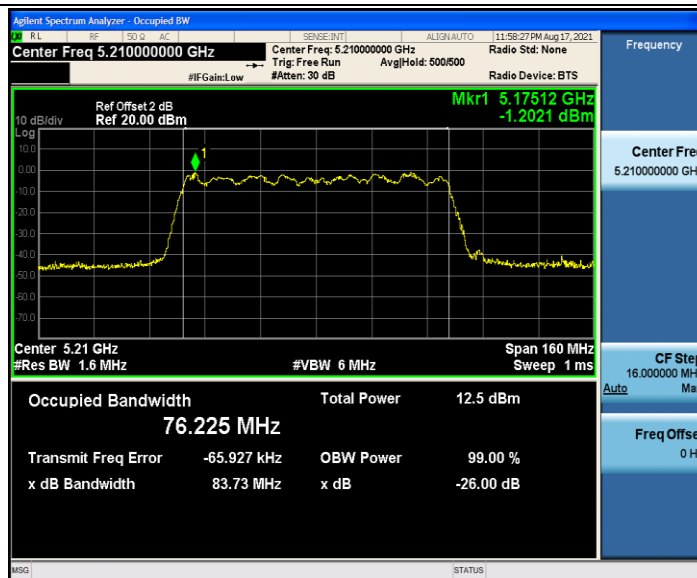
11AC40MIMO_Ant1_5795



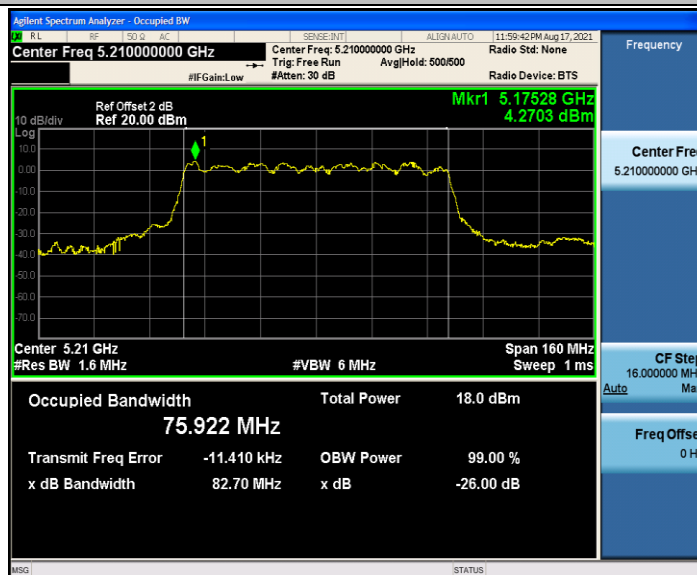
11AC40MIMO_Ant2_5795



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

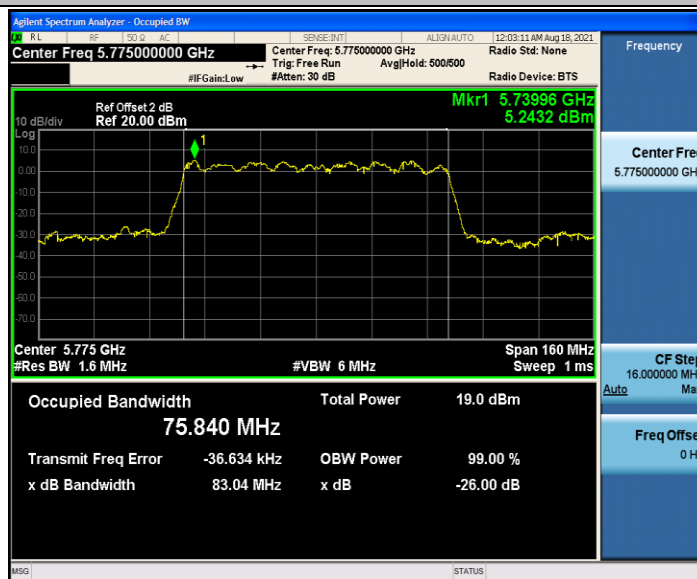


11AC80MIMO_Ant1_5775





11AC80MIMO_Ant2_5775





Appendix A3: Min emission bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.400	5736.800	5753.200	0.5	PASS
	Ant2	5745	16.400	5736.800	5753.200	0.5	PASS
	Ant1	5785	16.400	5776.800	5793.200	0.5	PASS
	Ant2	5785	16.400	5776.800	5793.200	0.5	PASS
	Ant1	5825	16.400	5816.800	5833.200	0.5	PASS
	Ant2	5825	16.400	5816.800	5833.200	0.5	PASS
11N20MIMO	Ant1	5745	17.120	5736.400	5753.520	0.5	PASS
	Ant2	5745	17.400	5736.400	5753.800	0.5	PASS
	Ant1	5785	17.240	5776.200	5793.440	0.5	PASS
	Ant2	5785	17.600	5776.200	5793.800	0.5	PASS
	Ant1	5825	17.320	5816.200	5833.520	0.5	PASS
	Ant2	5825	17.600	5816.200	5833.800	0.5	PASS
11N40MIMO	Ant1	5755	36.240	5736.760	5773.000	0.5	PASS
	Ant2	5755	36.160	5737.080	5773.240	0.5	PASS
	Ant1	5795	36.160	5776.760	5812.920	0.5	PASS
	Ant2	5795	36.160	5777.080	5813.240	0.5	PASS
11AC20MIMO	Ant1	5745	17.600	5736.200	5753.800	0.5	PASS
	Ant2	5745	17.080	5736.480	5753.560	0.5	PASS
	Ant1	5785	17.080	5776.360	5793.440	0.5	PASS
	Ant2	5785	17.080	5776.360	5793.440	0.5	PASS
	Ant1	5825	17.120	5816.440	5833.560	0.5	PASS
	Ant2	5825	17.200	5816.360	5833.560	0.5	PASS
11AC40MIMO	Ant1	5755	36.240	5736.760	5773.000	0.5	PASS
	Ant2	5755	36.240	5736.760	5773.000	0.5	PASS
	Ant1	5795	36.240	5776.760	5813.000	0.5	PASS
	Ant2	5795	36.240	5776.760	5813.000	0.5	PASS
11AC80MIMO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS
	Ant2	5775	75.520	5737.240	5812.760	0.5	PASS

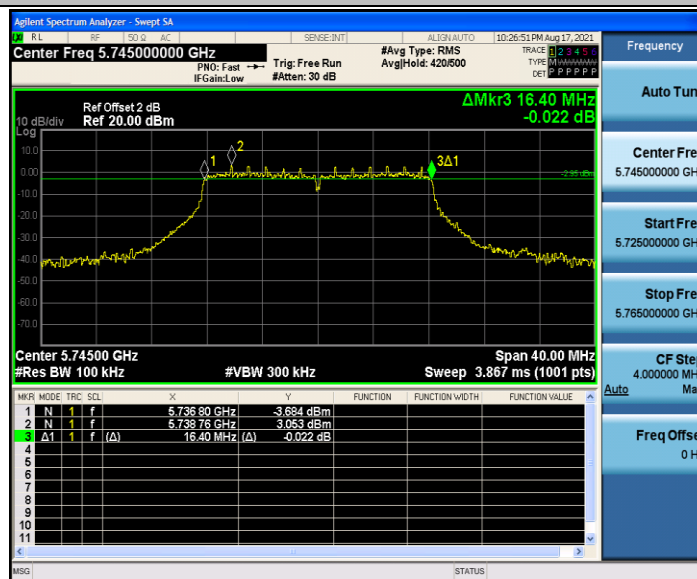


Test Graphs

11A_Ant1_5745



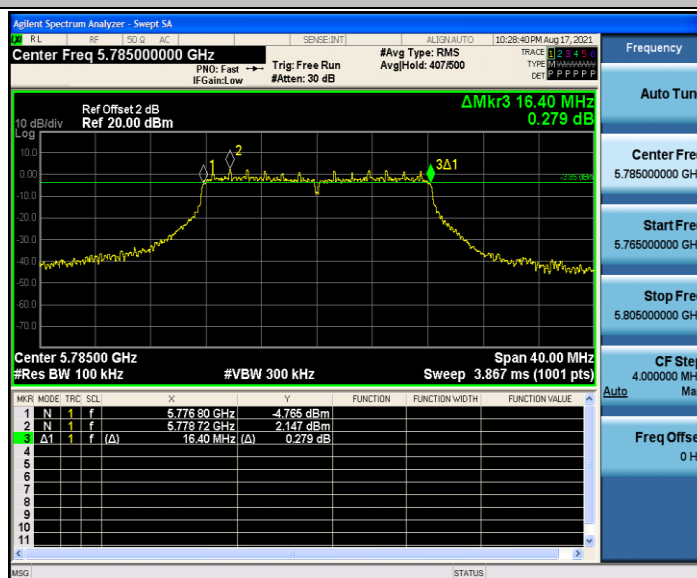
11A_Ant2_5745



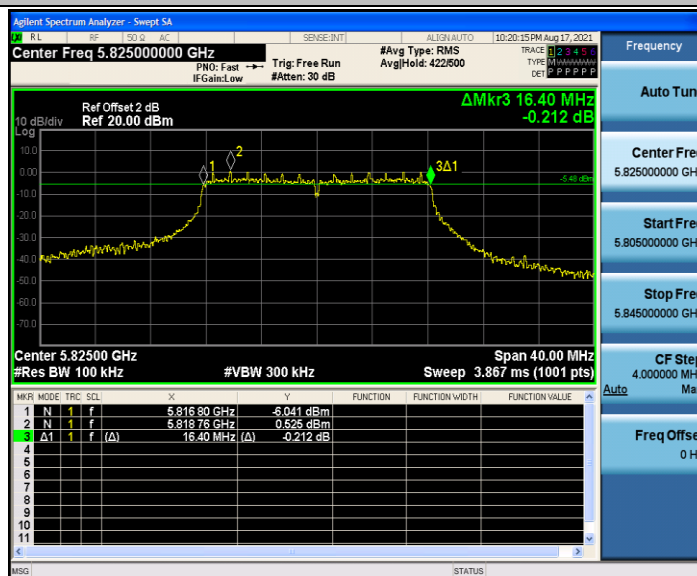
11A_Ant1_5785



11A_Ant2_5785



11A_Ant1_5825





Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.825000000 GHz

Ref Offset 2 dB
Ref 20.00 dBm

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS
AvgHolds: 413500

Span 40.00 MHz
Sweep 3.867 ms (1001 pts)

ΔMkr3 16.40 MHz
0.433 dB

10 dB/div
Log

Ref Offset 2 dB
Ref 20.00 dBm

ΔMkr3 16.40 MHz
0.433 dB

5.87 dBm

Center 5.825000 GHz
#Res BW 100 kHz
#VBW 300 kHz

Span 40.00 MHz
Sweep 3.867 ms (1001 pts)

MKR	MODE	TRIG	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.816 80 GHz	-5.68 dBm			
2	N	1	f	5.820 00 GHz	0.033 dBm			
3	Δ1	1	f (Δ)	16.40 MHz (Δ)	0.433 dB			
4								
5								
6								
7								
8								
9								
10								
11								

Auto

Frequency

Auto Tune

Center Freq
5.825000000 GHz

Start Freq
5.805000000 GHz

Stop Freq
5.845000000 GHz

CF Step
4.000000 MHz

Auto

Mar

Freq Offset
0 Hz

STATUS

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.745000000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 3.867 ms (1001 pts)

Ref Offset 2 dB
Ref 20.00 dBm

PNO: Fast
IF Gain: Low

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS
Avg/Hz: 408/500

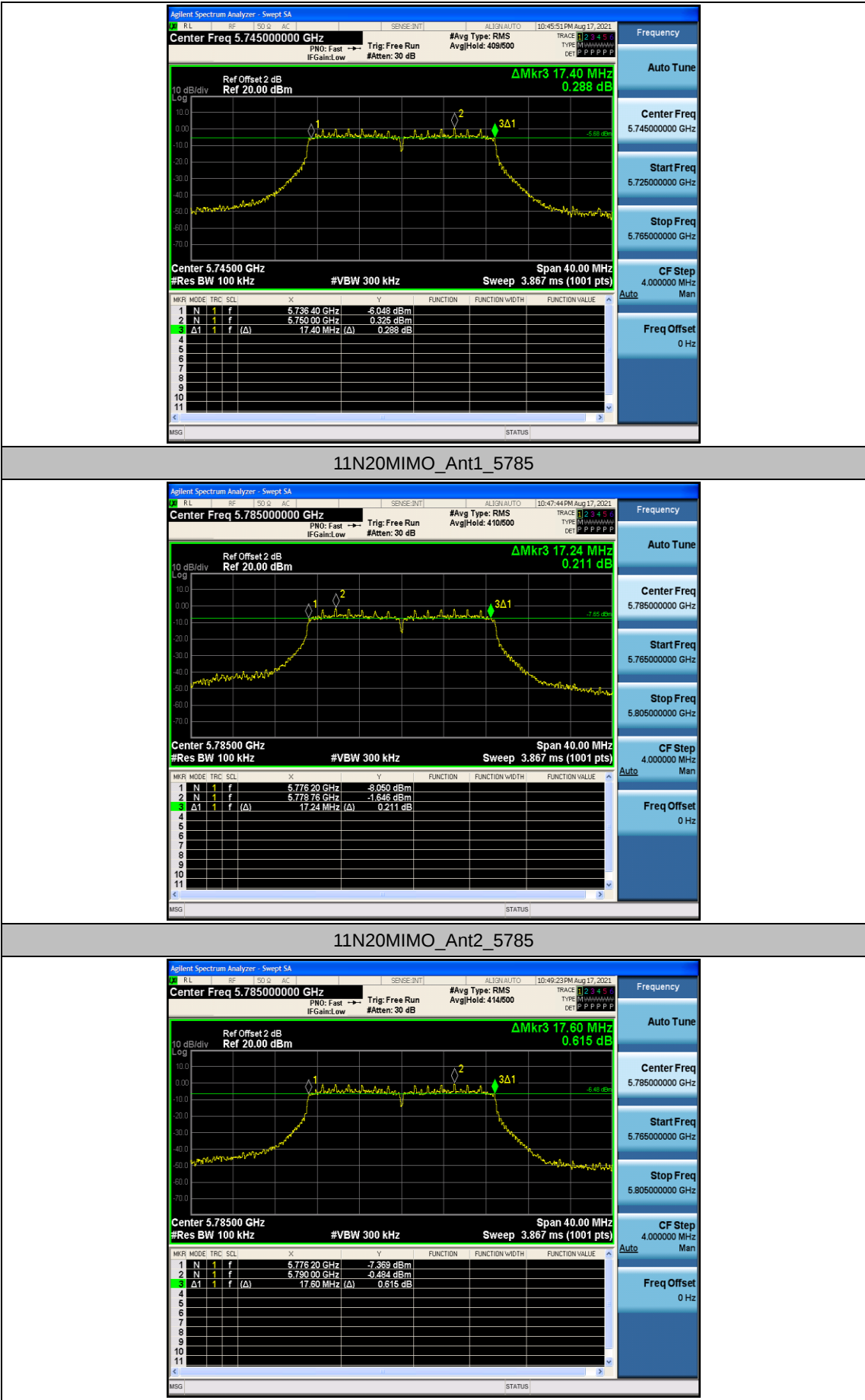
ALIGN AUTO

10:46:22 PM Aug 17, 2021

TRACE 1 [F] [S] [B]
TYPE [DMM] [ANAL]
DEF P P P P P

MNR	MODE	FREQ	SFL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.736 40 GHz	-7.517 dBm			
2	N	1	f	5.740 00 GHz	-9.936 dBm			
3	Δ1	1	f (Δ)	17.12 MHz (Δ)	0.564 dB			

56 / 98

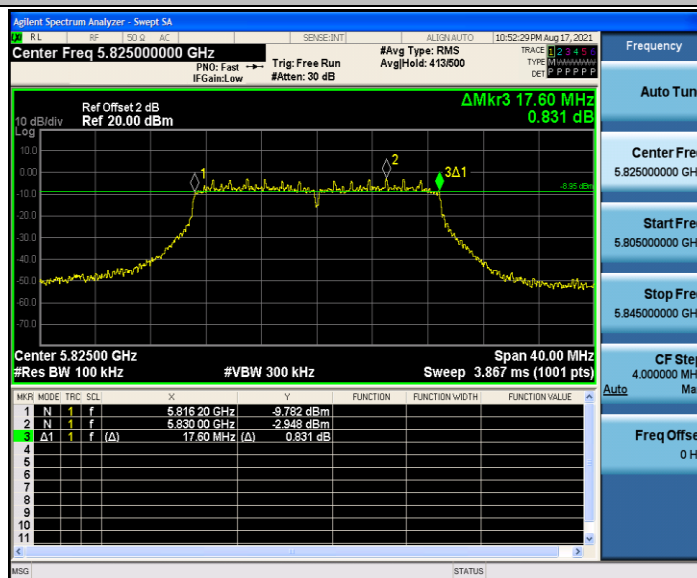




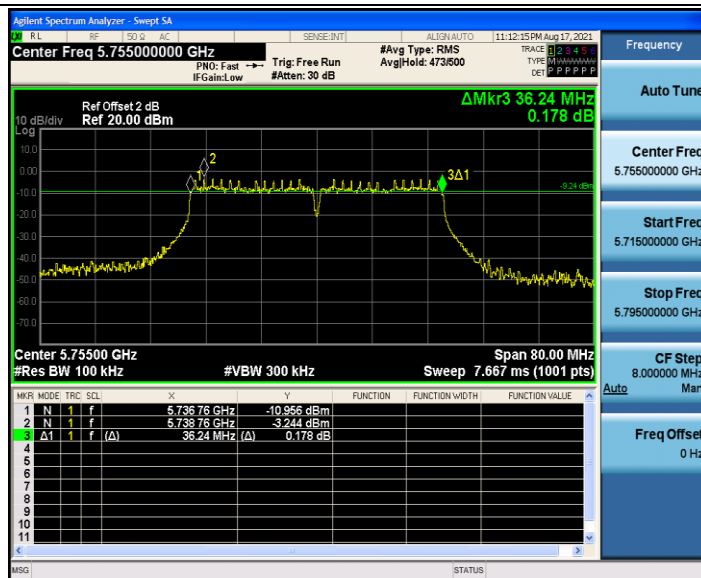
11N20MIMO_Ant1_5825



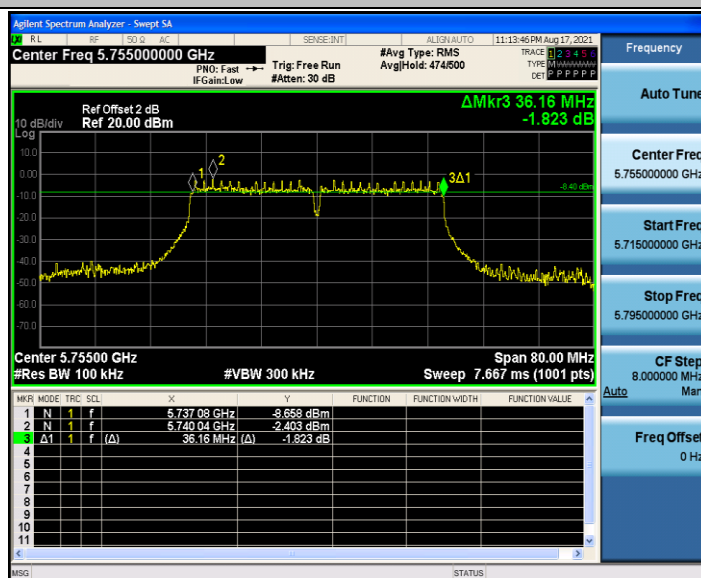
11N20MIMO_Ant2_5825



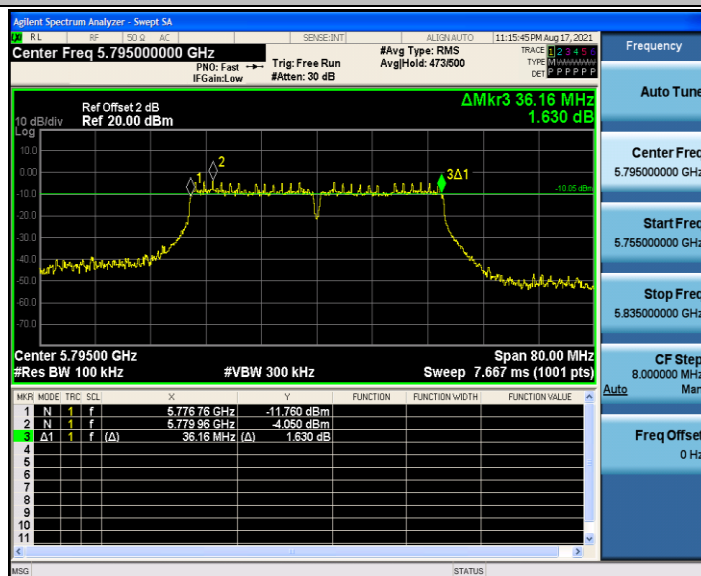
11N40MIMO_Ant1_5755



11N40MIMO_Ant2_5755

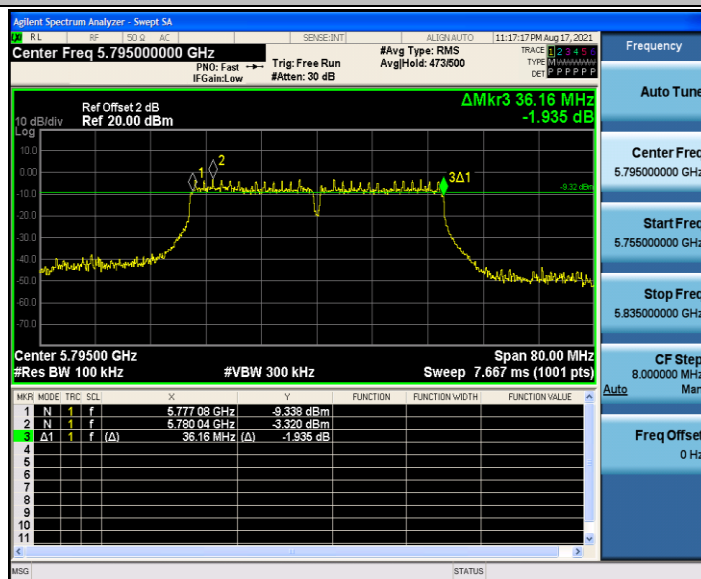


11N40MIMO_Ant1_5795

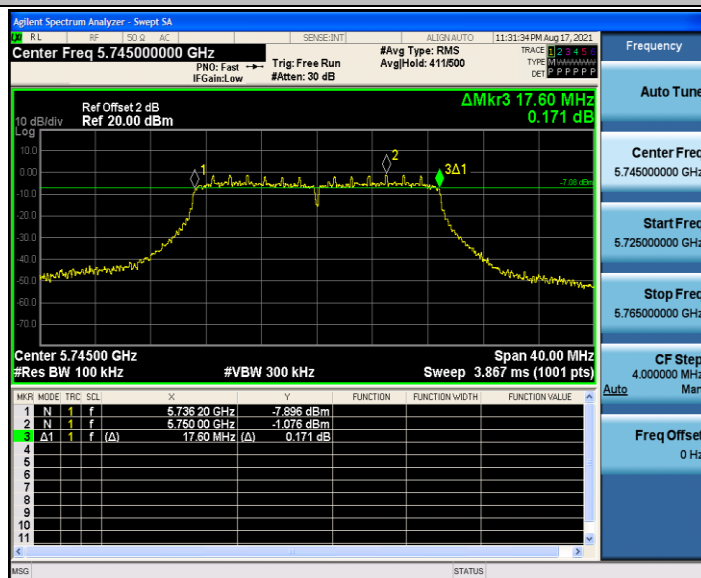




11N40MIMO_Ant2_5795



11AC20MIMO_Ant1_5745



11AC20MIMO_Ant2_5745