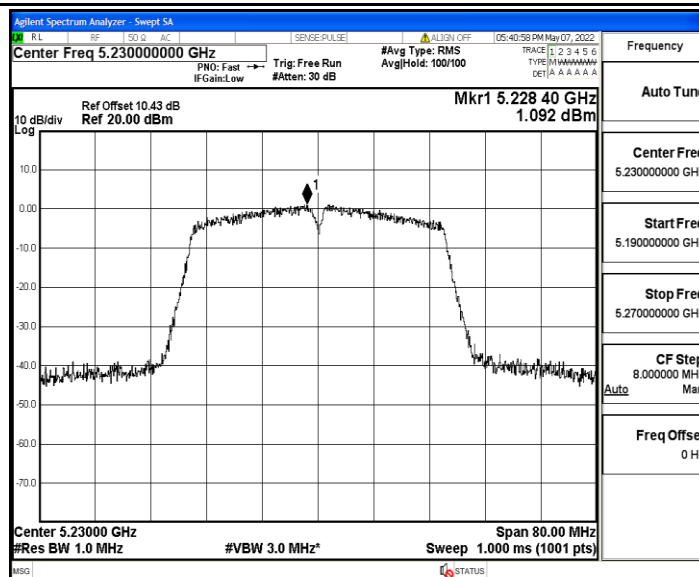
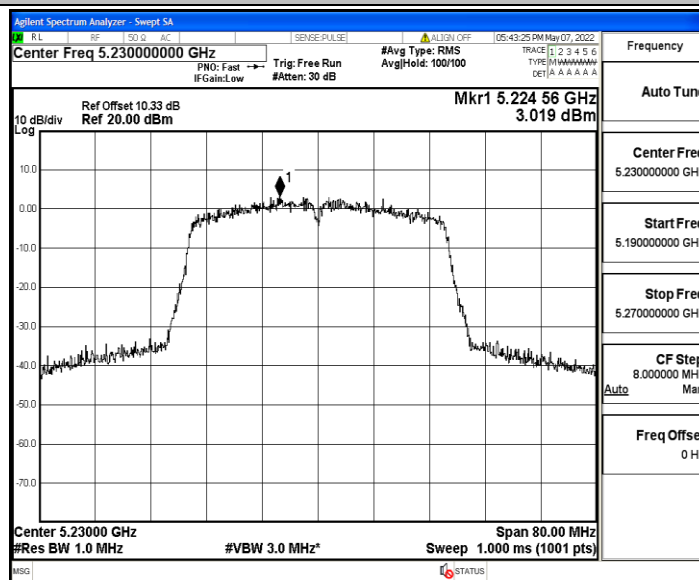
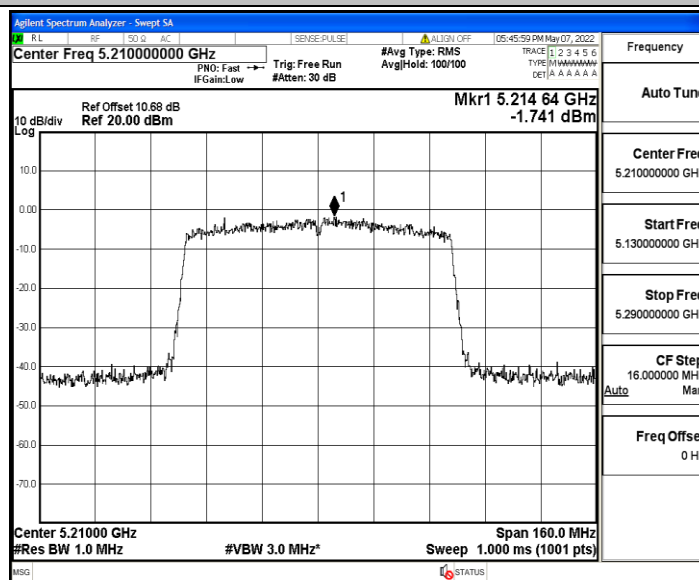




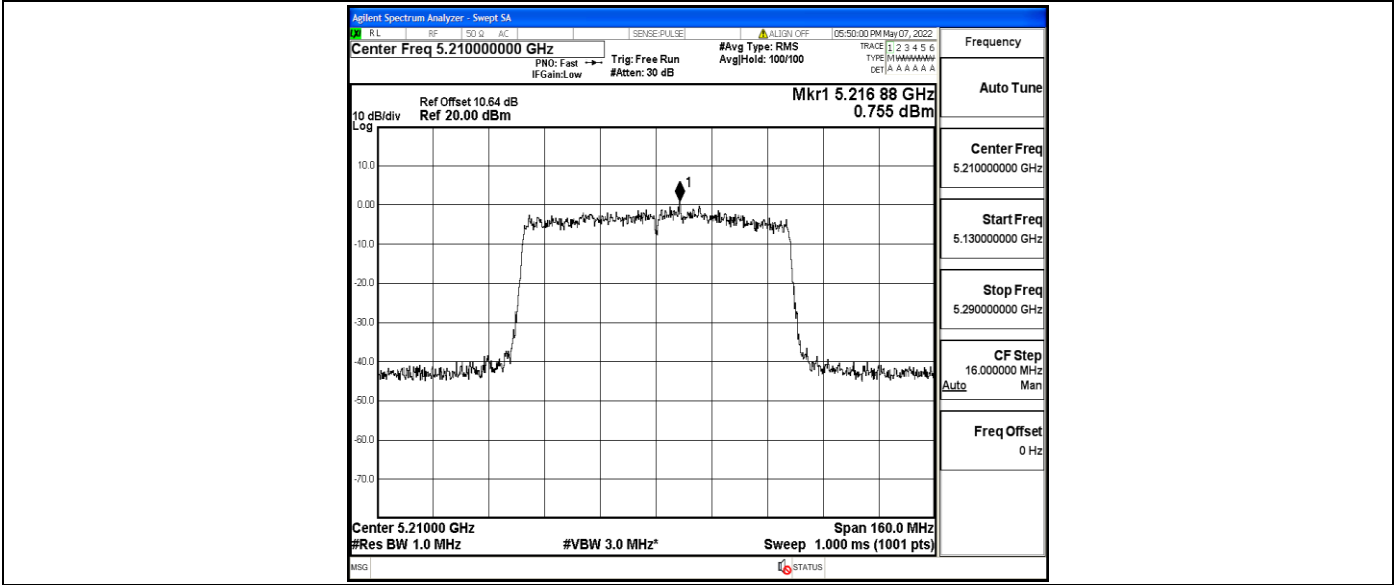
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



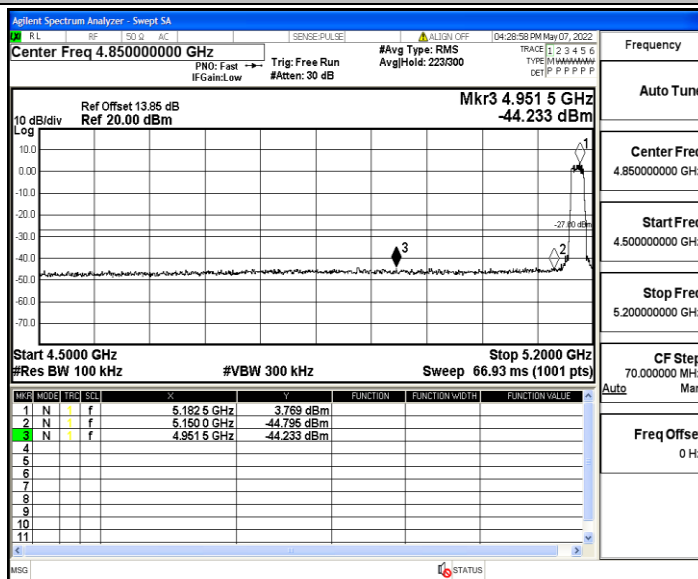
Appendix D: Band edge measurements

Test Result

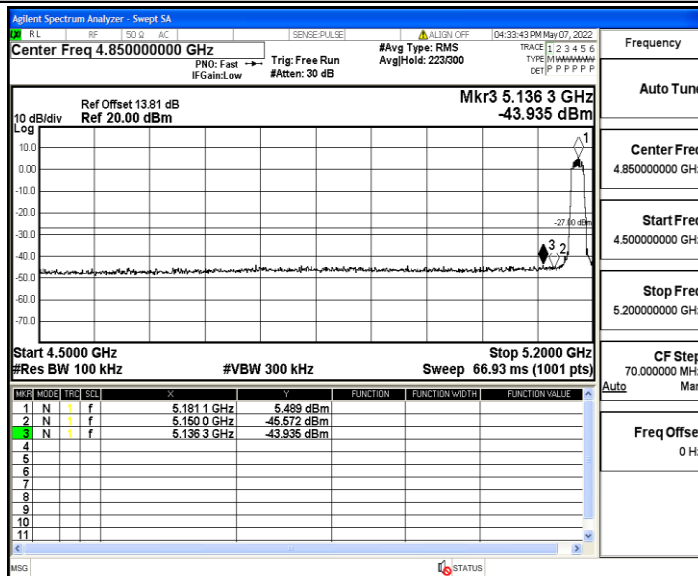
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-44.23	≤ -27	PASS
	Ant2	Low	5180	-43.94	≤ -27	PASS
	Ant1	High	5240	-43.49	≤ -27	PASS
	Ant2	High	5240	-43.72	≤ -27	PASS
11N20MIMO	Ant1	Low	5180	-43.12	≤ -27	PASS
	Ant2	Low	5180	-44.23	≤ -27	PASS
	Ant1	High	5240	-44.28	≤ -27	PASS
	Ant2	High	5240	-44.17	≤ -27	PASS
11N40MIMO	Ant1	Low	5190	-43.64	≤ -27	PASS
	Ant2	Low	5190	-44.4	≤ -27	PASS
	Ant1	High	5230	-44.19	≤ -27	PASS
	Ant2	High	5230	-44.49	≤ -27	PASS
11AC20MIMO	Ant1	Low	5180	-43.79	≤ -27	PASS
	Ant2	Low	5180	-43.66	≤ -27	PASS
	Ant1	High	5240	-44.61	≤ -27	PASS
	Ant2	High	5240	-43.79	≤ -27	PASS
11AC40MIMO	Ant1	Low	5190	-43.72	≤ -27	PASS
	Ant2	Low	5190	-44.54	≤ -27	PASS
	Ant1	High	5230	-43.98	≤ -27	PASS
	Ant2	High	5230	-44.11	≤ -27	PASS
11AC80MIMO	Ant1	Low	5210	-42.74	≤ -27	PASS
	Ant2	Low	5210	-42.83	≤ -27	PASS
	Ant1	High	5210	-44.15	≤ -27	PASS
	Ant2	High	5210	-44.24	≤ -27	PASS

Test Graphs

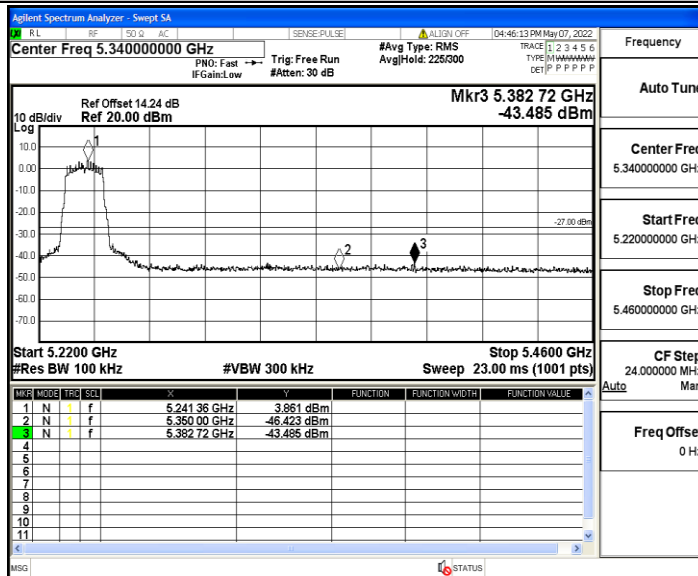
11A_Ant1_Low_5180



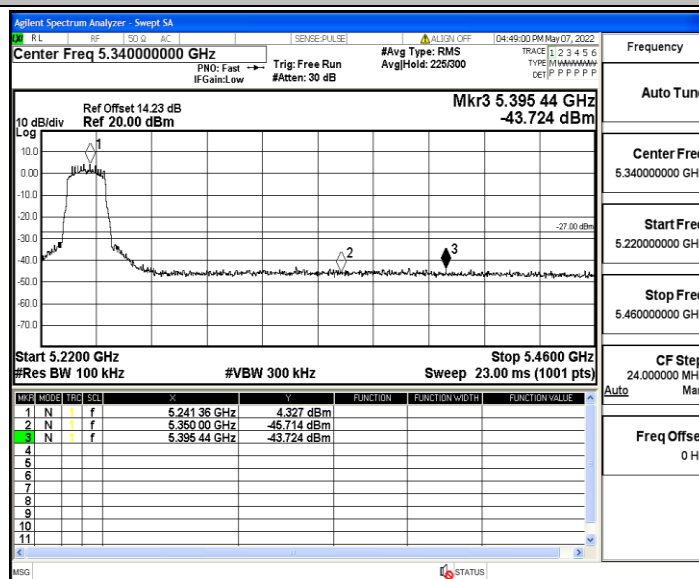
11A_Ant2_Low_5180



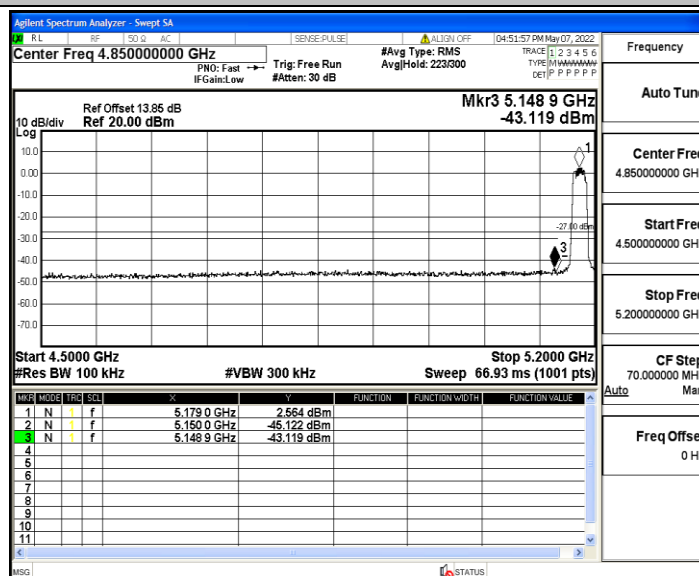
11A_Ant1_High_5240



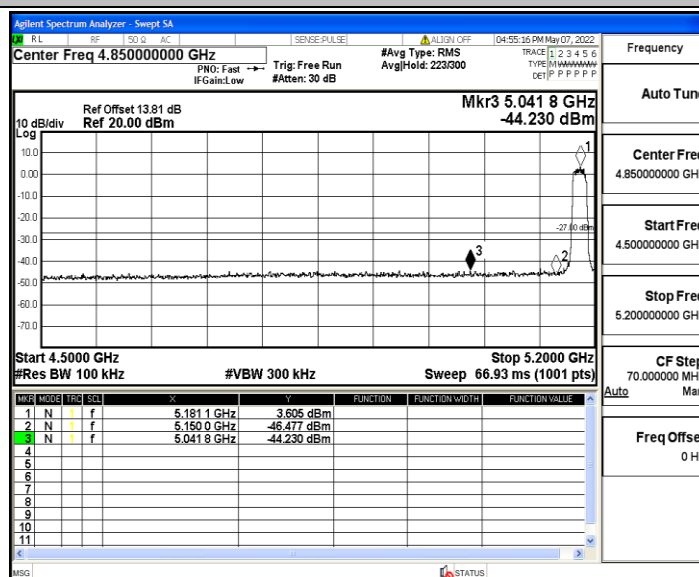
11A_Ant2_High_5240



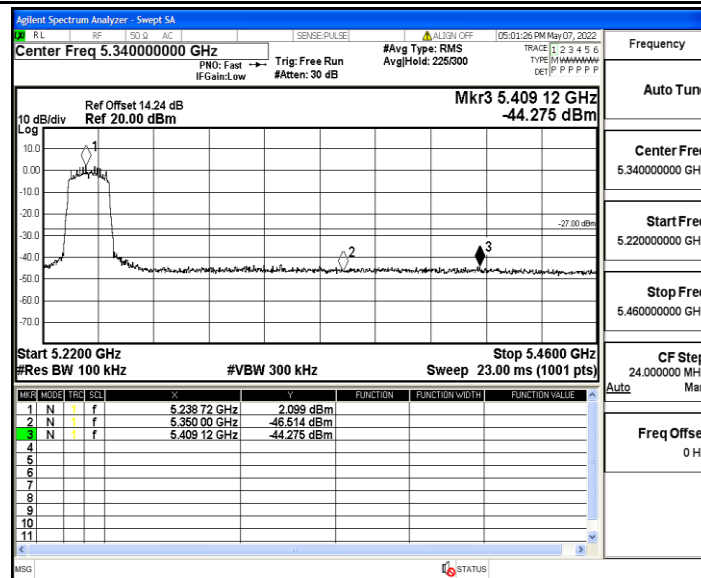
11N20MIMO_Ant1_Low_5180



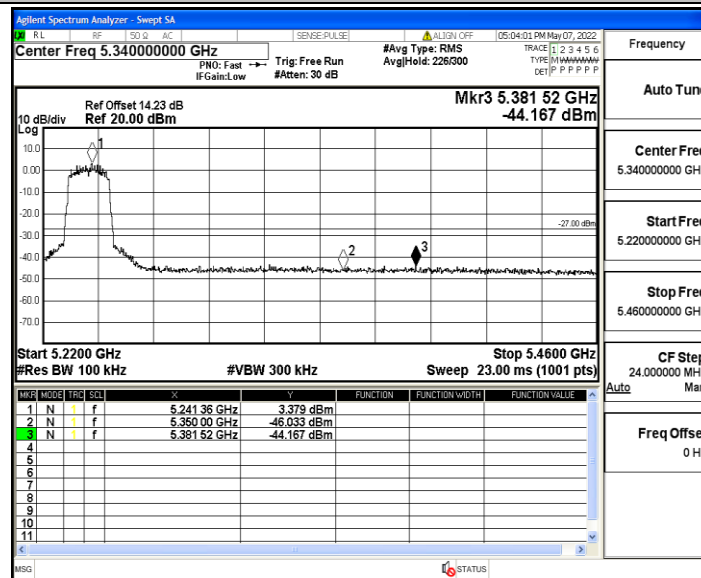
11N20MIMO_Ant2_Low_5180



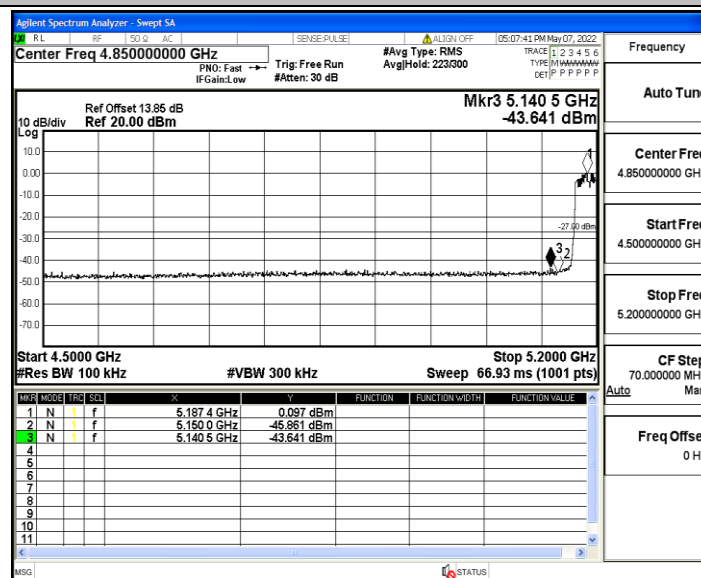
11N20MIMO_Ant1_High_5240



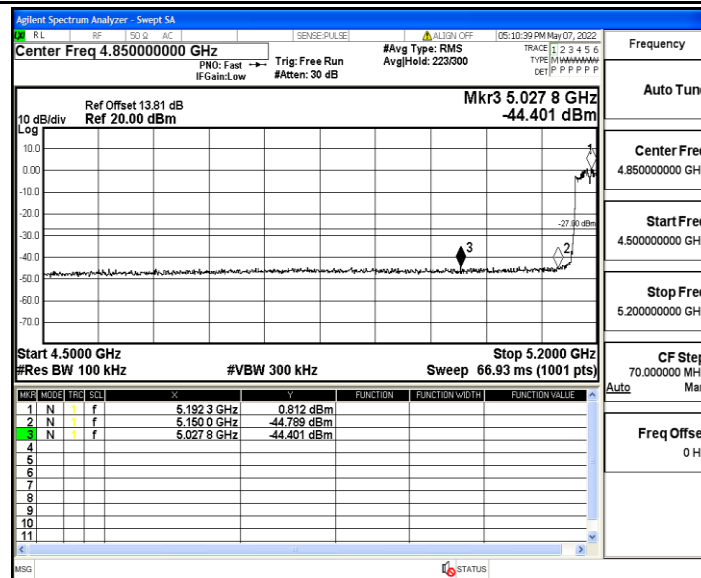
11N20MIMO_Ant2_High_5240



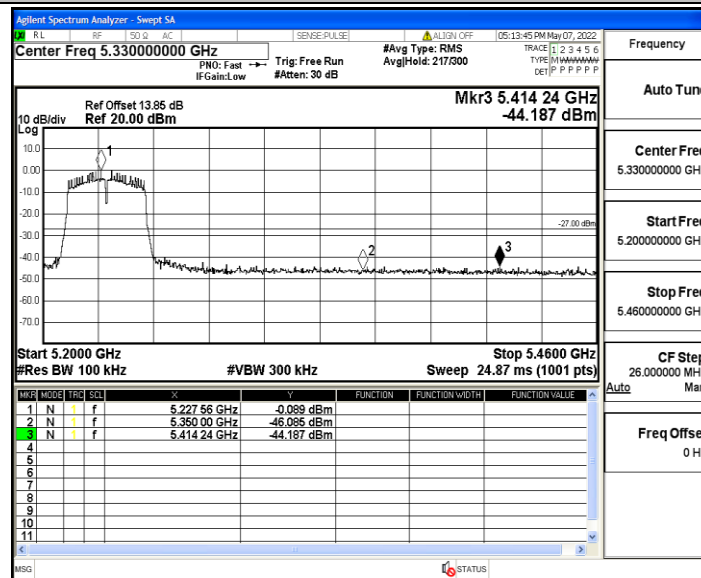
11N40MIMO_Ant1_Low_5190



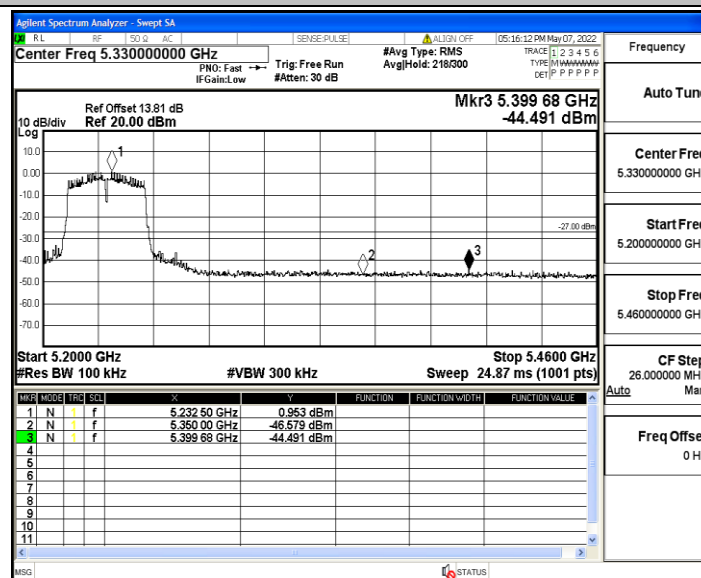
11N40MIMO_Ant2_Low_5190



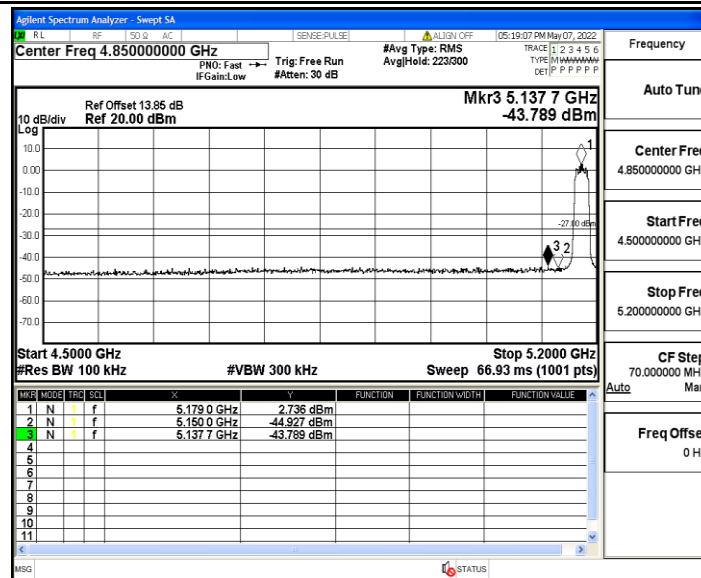
11N40MIMO_Ant1_High_5230



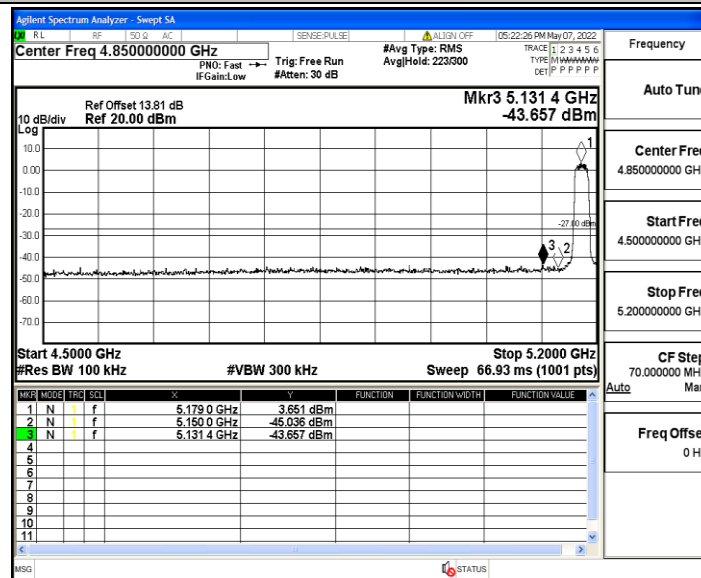
11N40MIMO_Ant2_High_5230



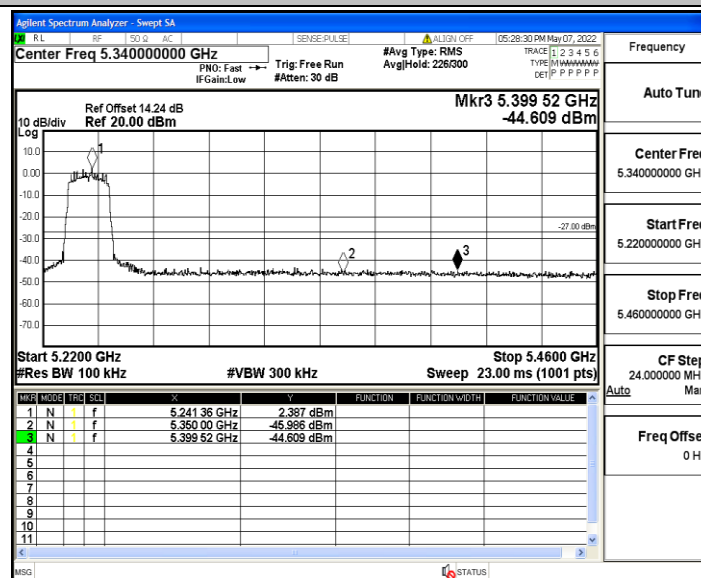
11AC20MIMO_Ant1_Low_5180



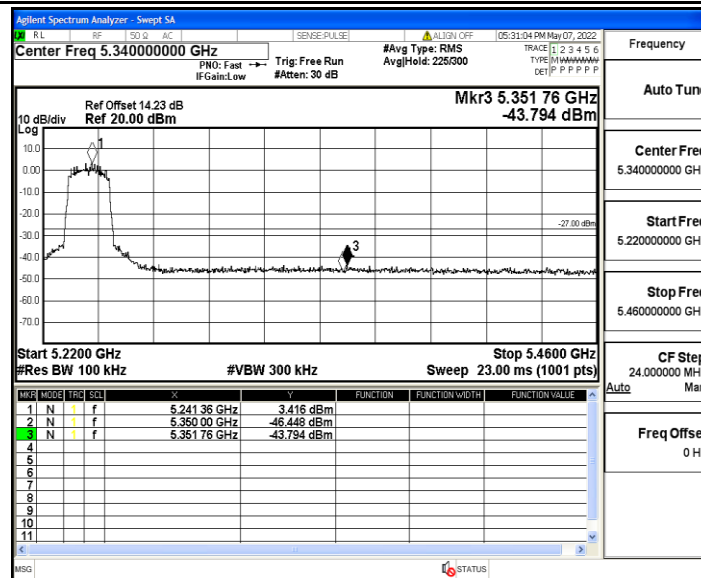
11AC20MIMO_Ant2_Low_5180



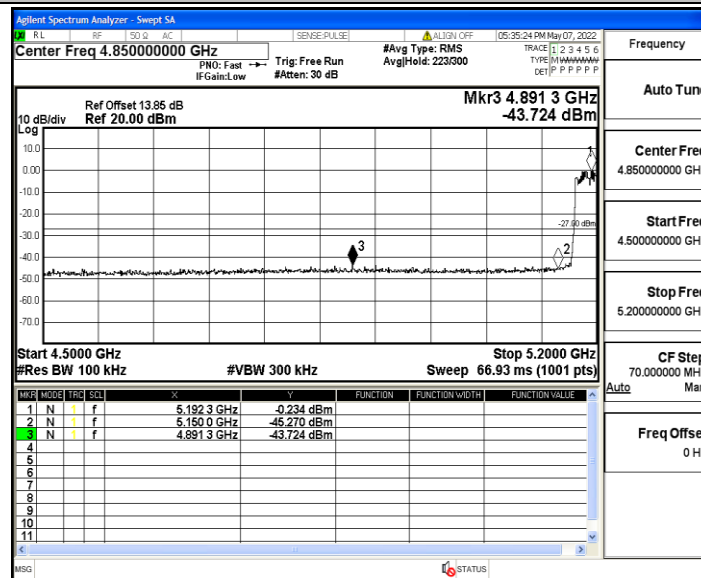
11AC20MIMO_Ant1_High_5240



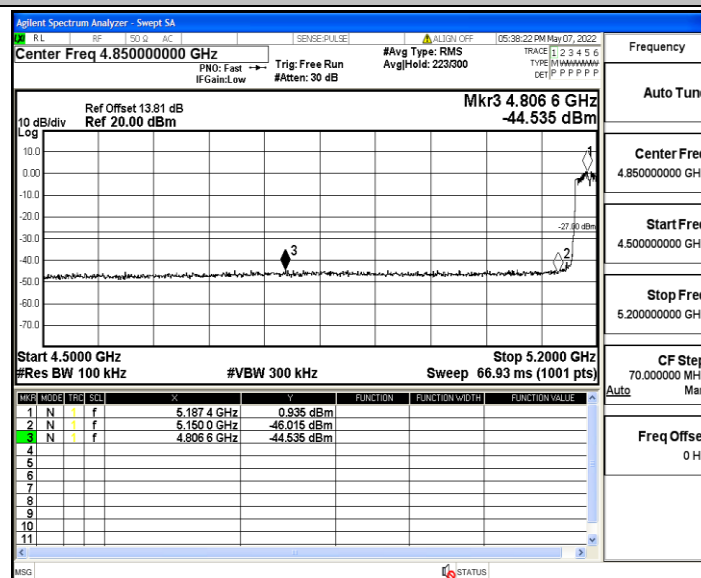
11AC20MIMO_Ant2_High_5240



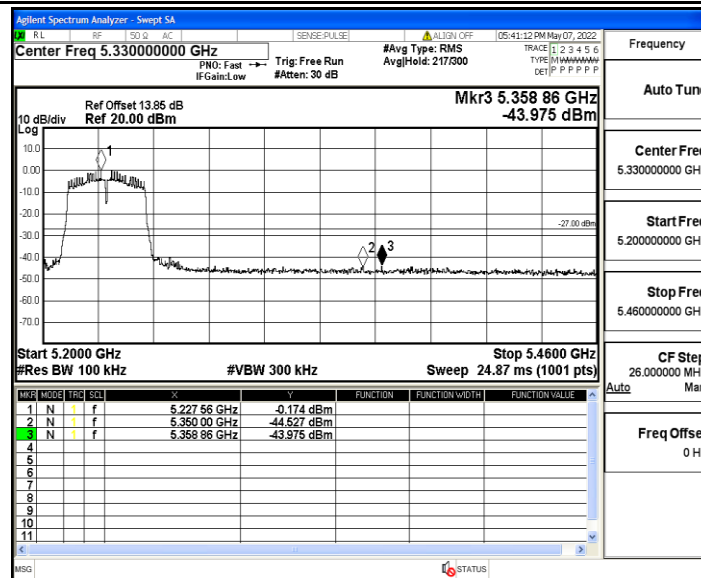
11AC40MIMO_Ant1_Low_5190



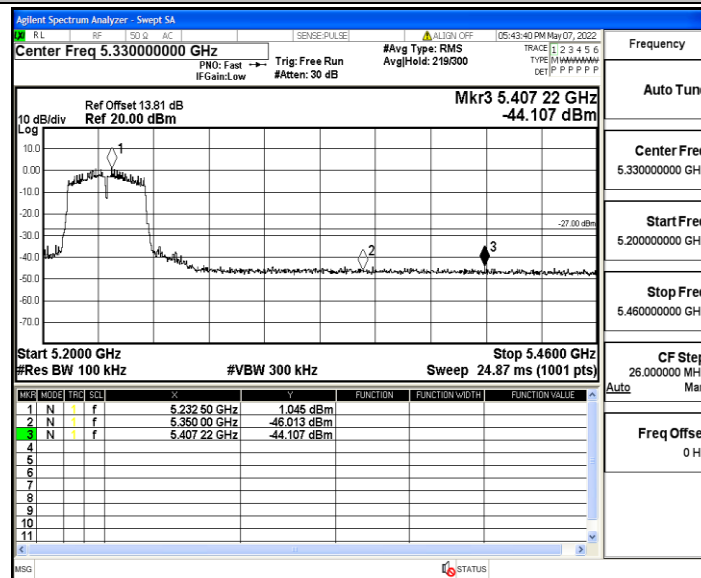
11AC40MIMO_Ant2_Low_5190



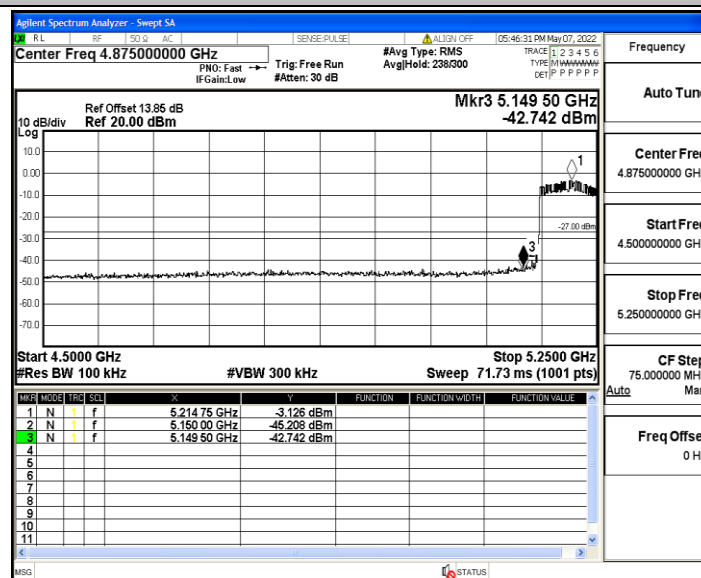
11AC40MIMO_Ant1_High_5230



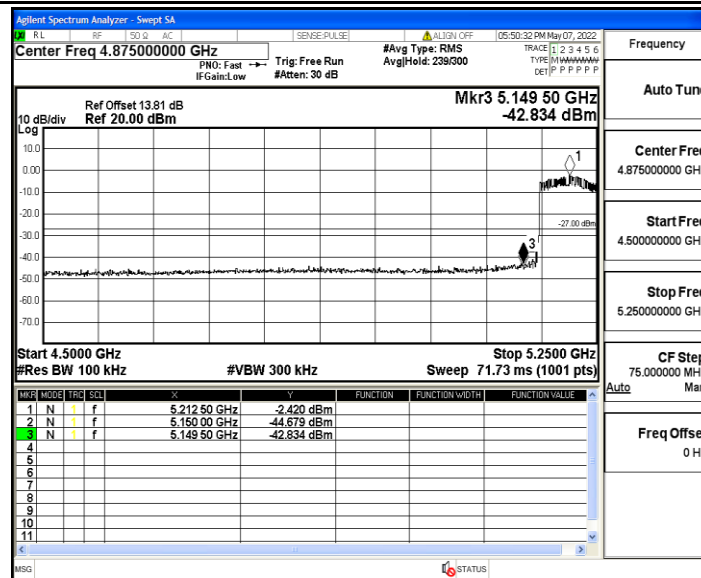
11AC40MIMO_Ant2_High_5230



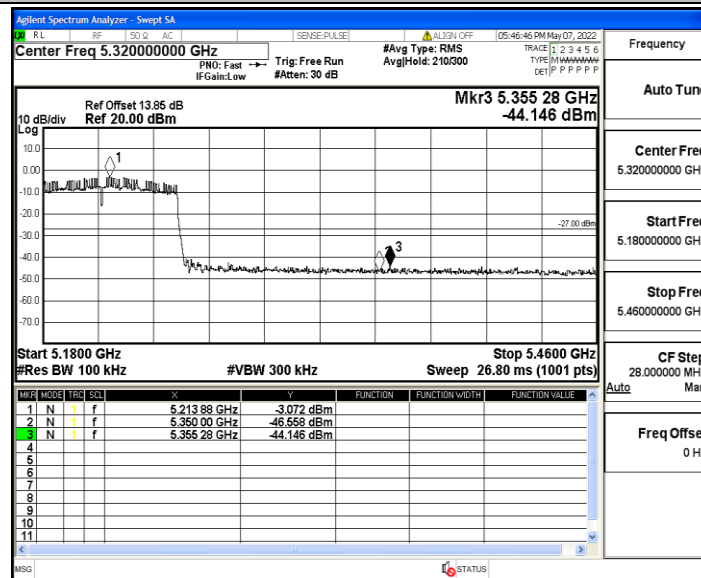
11AC80MIMO_Ant1_Low_5210



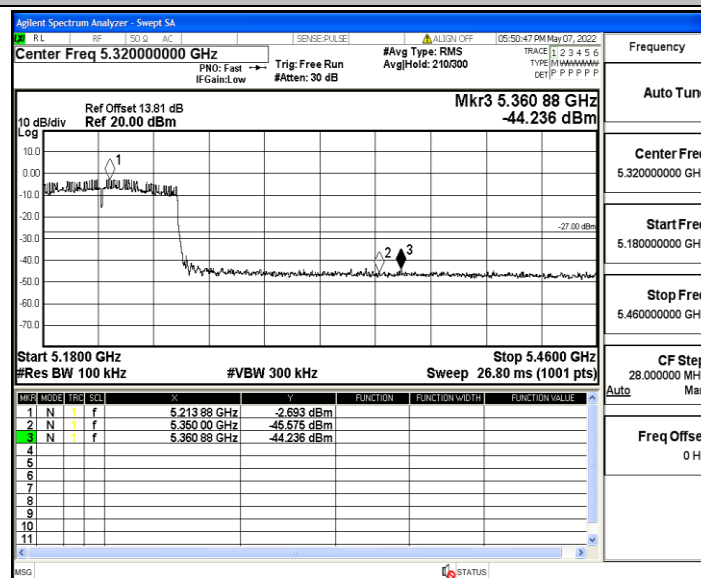
11AC80MIMO_Ant2_Low_5210



11AC80MIMO_Ant1_High_5210



11AC80MIMO_Ant2_High_5210



Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.926409	5150 – 5250	PASS
5180	20	108	5180.017537	5150 – 5250	PASS
5180	50	120	5180.099951	5150 – 5250	PASS
5180	40	120	5180.021837	5150 – 5250	PASS
5180	30	120	5179.974245	5150 – 5250	PASS
5180	20	120	5179.991344	5150 – 5250	PASS
5180	10	120	5179.984336	5150 – 5250	PASS
5180	0	120	5179.938366	5150 – 5250	PASS
5180	-10	120	5179.927372	5150 – 5250	PASS
5180	-20	120	5180.032869	5150 – 5250	PASS
5180	-30	120	5180.000586	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.050218	5150 – 5250	PASS
5180	20	108	5179.961156	5150 – 5250	PASS
5180	50	120	5179.921636	5150 – 5250	PASS
5180	40	120	5180.062183	5150 – 5250	PASS
5180	30	120	5179.922582	5150 – 5250	PASS
5180	20	120	5180.058324	5150 – 5250	PASS
5180	10	120	5180.076118	5150 – 5250	PASS
5180	0	120	5180.087930	5150 – 5250	PASS
5180	-10	120	5179.935105	5150 – 5250	PASS
5180	-20	120	5179.929380	5150 – 5250	PASS
5180	-30	120	5180.031902	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.900933	5150 – 5250	PASS
5200	20	108	5200.024175	5150 – 5250	PASS
5200	50	120	5199.943770	5150 – 5250	PASS
5200	40	120	5200.087661	5150 – 5250	PASS
5200	30	120	5200.060578	5150 – 5250	PASS
5200	20	120	5199.917532	5150 – 5250	PASS
5200	10	120	5200.028873	5150 – 5250	PASS
5200	0	120	5199.962293	5150 – 5250	PASS
5200	-10	120	5199.959963	5150 – 5250	PASS
5200	-20	120	5199.991698	5150 – 5250	PASS
5200	-30	120	5199.990931	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.045320	5150 – 5250	PASS
5200	20	108	5200.043672	5150 – 5250	PASS
5200	50	120	5199.900662	5150 – 5250	PASS
5200	40	120	5200.097466	5150 – 5250	PASS
5200	30	120	5199.987369	5150 – 5250	PASS
5200	20	120	5199.933976	5150 – 5250	PASS
5200	10	120	5200.051901	5150 – 5250	PASS
5200	0	120	5199.984468	5150 – 5250	PASS
5200	-10	120	5199.921725	5150 – 5250	PASS
5200	-20	120	5200.007536	5150 – 5250	PASS
5200	-30	120	5200.063716	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.041364	5150 – 5250	PASS
5240	20	108	5239.959909	5150 – 5250	PASS
5240	50	120	5239.988452	5150 – 5250	PASS
5240	40	120	5239.948573	5150 – 5250	PASS
5240	30	120	5239.912529	5150 – 5250	PASS
5240	20	120	5239.985943	5150 – 5250	PASS
5240	10	120	5239.998194	5150 – 5250	PASS
5240	0	120	5240.028329	5150 – 5250	PASS
5240	-10	120	5239.995090	5150 – 5250	PASS
5240	-20	120	5240.093805	5150 – 5250	PASS
5240	-30	120	5240.059421	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.057291	5150 – 5250	PASS
5240	20	108	5240.038230	5150 – 5250	PASS
5240	50	120	5239.981093	5150 – 5250	PASS
5240	40	120	5240.040576	5150 – 5250	PASS
5240	30	120	5240.031386	5150 – 5250	PASS
5240	20	120	5239.996199	5150 – 5250	PASS
5240	10	120	5240.089485	5150 – 5250	PASS
5240	0	120	5239.965125	5150 – 5250	PASS
5240	-10	120	5240.087558	5150 – 5250	PASS
5240	-20	120	5239.933892	5150 – 5250	PASS
5240	-30	120	5240.030555	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.929727	5150 – 5250	PASS
5190	20	108	5189.955480	5150 – 5250	PASS
5190	50	120	5190.081102	5150 – 5250	PASS
5190	40	120	5190.075817	5150 – 5250	PASS
5190	30	120	5190.078571	5150 – 5250	PASS
5190	20	120	5189.905428	5150 – 5250	PASS
5190	10	120	5189.935043	5150 – 5250	PASS
5190	0	120	5190.068594	5150 – 5250	PASS
5190	-10	120	5190.073878	5150 – 5250	PASS
5190	-20	120	5189.918904	5150 – 5250	PASS
5190	-30	120	5190.018968	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.946364	5150 – 5250	PASS
5190	20	108	5190.083390	5150 – 5250	PASS
5190	50	120	5190.005675	5150 – 5250	PASS
5190	40	120	5190.013572	5150 – 5250	PASS
5190	30	120	5189.943651	5150 – 5250	PASS
5190	20	120	5189.954149	5150 – 5250	PASS
5190	10	120	5189.938803	5150 – 5250	PASS
5190	0	120	5189.947896	5150 – 5250	PASS
5190	-10	120	5190.086881	5150 – 5250	PASS
5190	-20	120	5190.018170	5150 – 5250	PASS
5190	-30	120	5189.913873	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.026644	5150 – 5250	PASS
5230	20	108	5230.005113	5150 – 5250	PASS
5230	50	120	5229.917725	5150 – 5250	PASS
5230	40	120	5229.966165	5150 – 5250	PASS
5230	30	120	5229.985419	5150 – 5250	PASS
5230	20	120	5230.048306	5150 – 5250	PASS
5230	10	120	5230.011836	5150 – 5250	PASS
5230	0	120	5229.922468	5150 – 5250	PASS
5230	-10	120	5230.034797	5150 – 5250	PASS
5230	-20	120	5230.093395	5150 – 5250	PASS
5230	-30	120	5230.041961	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.906884	5150 – 5250	PASS
5230	20	108	5229.951917	5150 – 5250	PASS
5230	50	120	5229.911481	5150 – 5250	PASS
5230	40	120	5230.074212	5150 – 5250	PASS
5230	30	120	5230.016234	5150 – 5250	PASS
5230	20	120	5230.026688	5150 – 5250	PASS
5230	10	120	5230.085635	5150 – 5250	PASS
5230	0	120	5229.988559	5150 – 5250	PASS
5230	-10	120	5229.988931	5150 – 5250	PASS
5230	-20	120	5229.920164	5150 – 5250	PASS
5230	-30	120	5230.063767	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5209.982618	5150 – 5250	PASS
5210	20	108	5210.053128	5150 – 5250	PASS
5210	50	120	5210.080006	5150 – 5250	PASS
5210	40	120	5209.918112	5150 – 5250	PASS
5210	30	120	5210.098767	5150 – 5250	PASS
5210	20	120	5209.924329	5150 – 5250	PASS
5210	10	120	5210.080097	5150 – 5250	PASS
5210	0	120	5210.007925	5150 – 5250	PASS
5210	-10	120	5210.083834	5150 – 5250	PASS
5210	-20	120	5210.002432	5150 – 5250	PASS
5210	-30	120	5210.004617	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5209.955006	5150 – 5250	PASS
5210	20	108	5210.011434	5150 – 5250	PASS
5210	50	120	5210.083724	5150 – 5250	PASS
5210	40	120	5209.948490	5150 – 5250	PASS
5210	30	120	5209.972109	5150 – 5250	PASS
5210	20	120	5209.987006	5150 – 5250	PASS
5210	10	120	5209.908226	5150 – 5250	PASS
5210	0	120	5209.992142	5150 – 5250	PASS
5210	-10	120	5210.084764	5150 – 5250	PASS
5210	-20	120	5210.009439	5150 – 5250	PASS
5210	-30	120	5209.941950	5150 – 5250	PASS

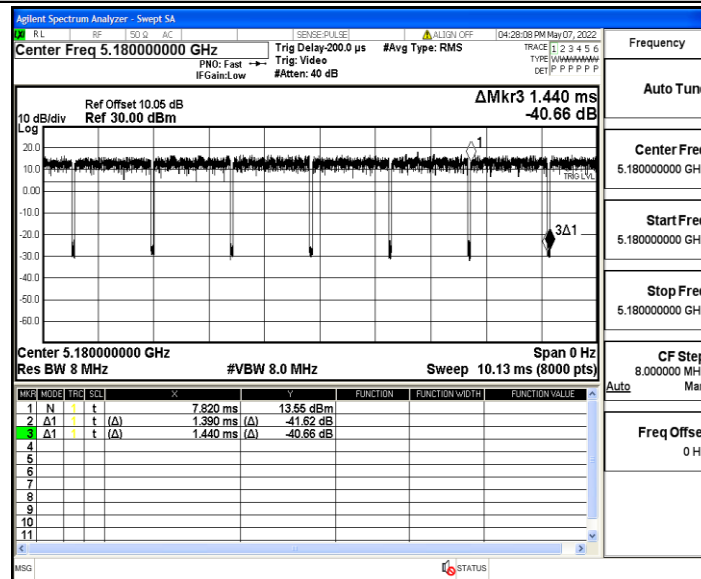
Appendix F: Duty Cycle

Test Result

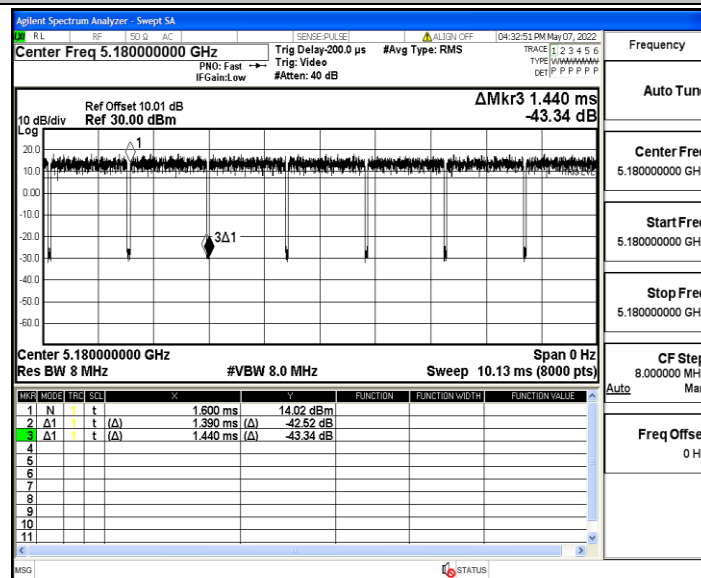
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [KHz]
11A	Ant1	5180	1.39	1.44	96.53	0.72
	Ant2	5180	1.39	1.44	96.53	0.72
	Ant1	5200	1.39	1.45	95.86	0.72
	Ant2	5200	1.40	1.45	96.55	0.71
	Ant1	5240	1.39	1.44	96.53	0.72
	Ant2	5240	1.39	1.45	95.86	0.72
11N20MIMO	Ant1	5180	1.30	1.36	95.59	0.77
	Ant2	5180	1.30	1.36	95.59	0.77
	Ant1	5200	1.30	1.35	96.30	0.77
	Ant2	5200	1.30	1.36	95.59	0.77
	Ant1	5240	1.30	1.36	95.59	0.77
	Ant2	5240	1.30	1.35	96.30	0.77
11N40MIMO	Ant1	5190	0.65	0.70	92.86	1.54
	Ant2	5190	0.65	0.70	92.86	1.54
	Ant1	5230	0.65	0.70	92.86	1.54
	Ant2	5230	0.65	0.70	92.86	1.54
11AC20MIMO	Ant1	5180	1.31	1.37	95.62	0.76
	Ant2	5180	1.31	1.36	96.32	0.76
	Ant1	5200	1.31	1.37	95.62	0.76
	Ant2	5200	1.31	1.37	95.62	0.76
	Ant1	5240	1.31	1.37	95.62	0.76
	Ant2	5240	1.31	1.36	96.32	0.76
11AC40MIMO	Ant1	5190	0.65	0.70	92.86	1.54
	Ant2	5190	0.65	0.70	92.86	1.54
	Ant1	5230	0.65	0.71	91.55	1.54
	Ant2	5230	0.65	0.70	92.86	1.54
11AC80MIMO	Ant1	5210	0.32	0.37	86.49	3.13
	Ant2	5210	0.32	0.37	86.49	3.13

Test Graphs

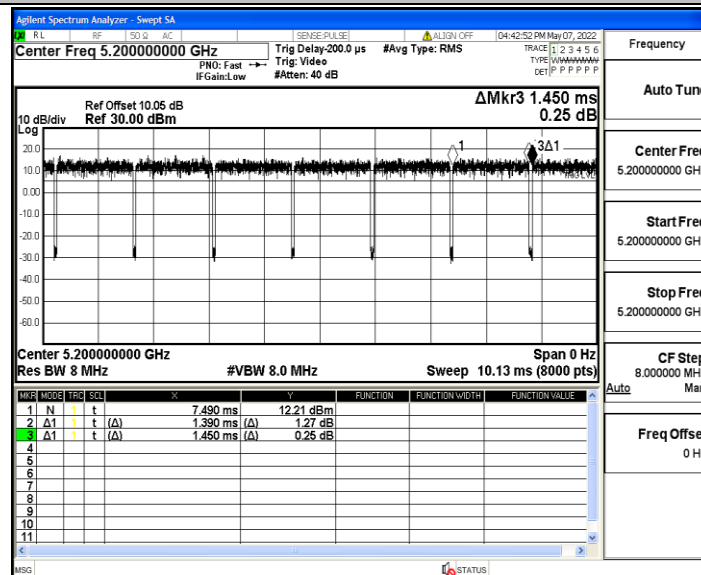
11A_Ant1_5180



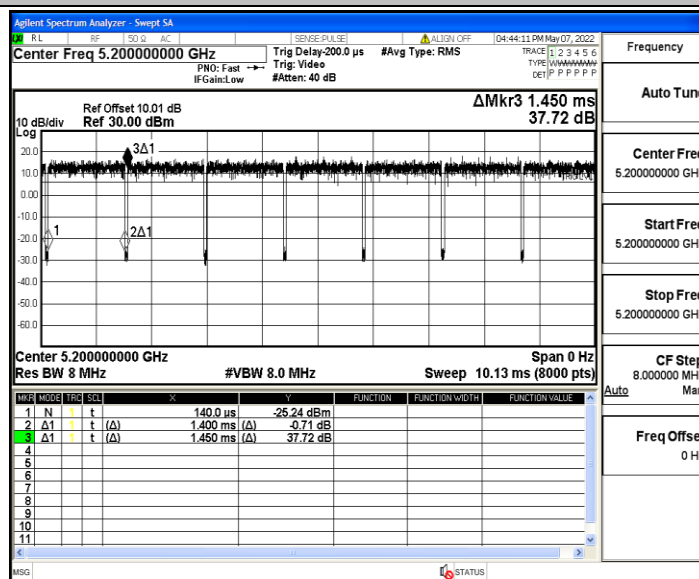
11A_Ant2_5180



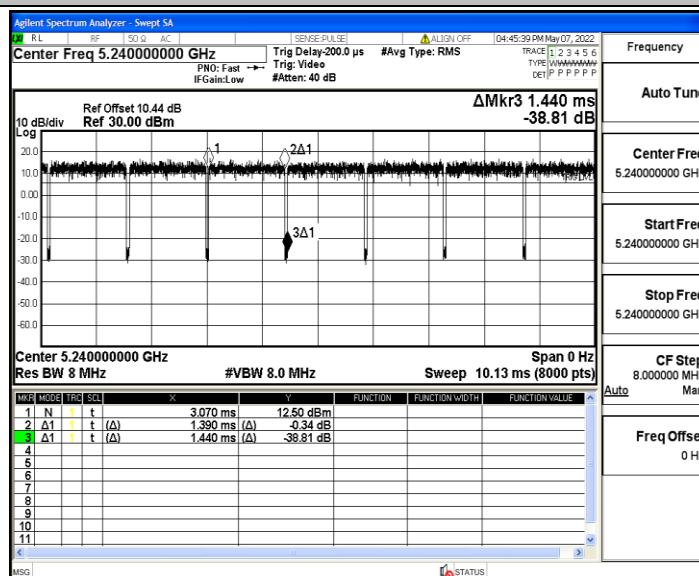
11A_Ant1_5200



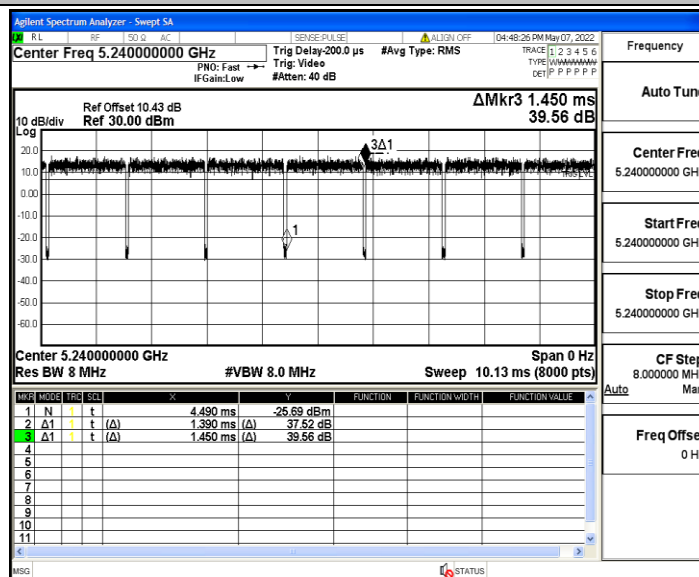
11A_Ant2_5200



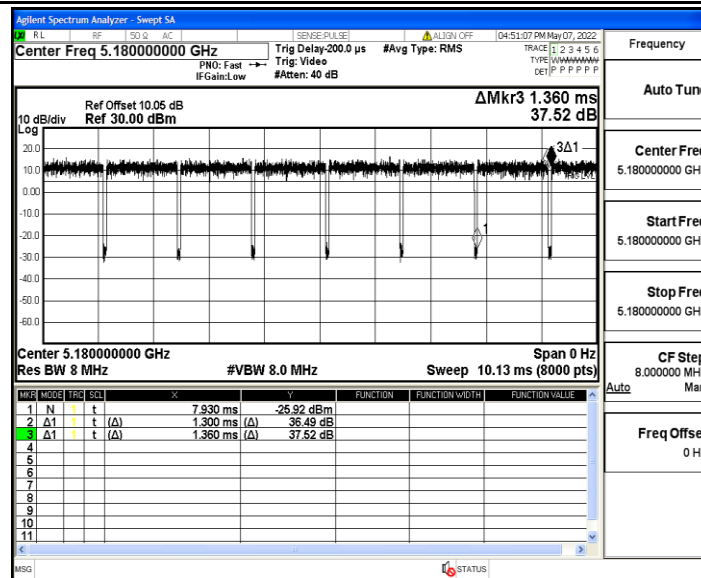
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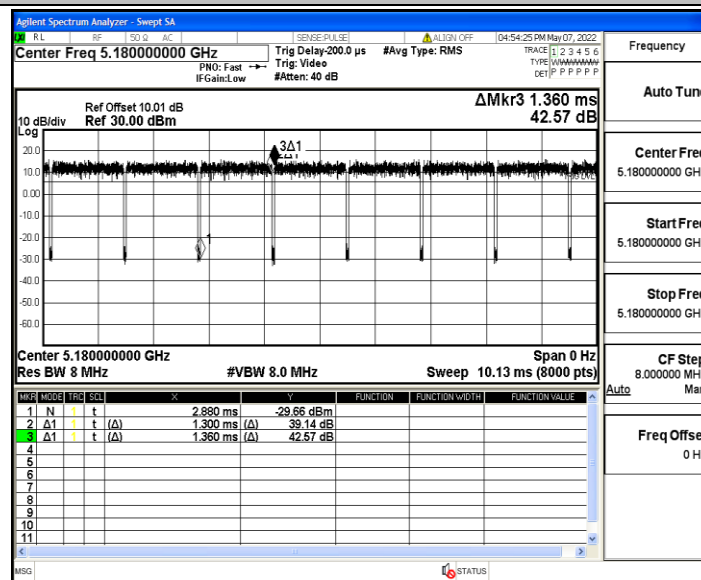
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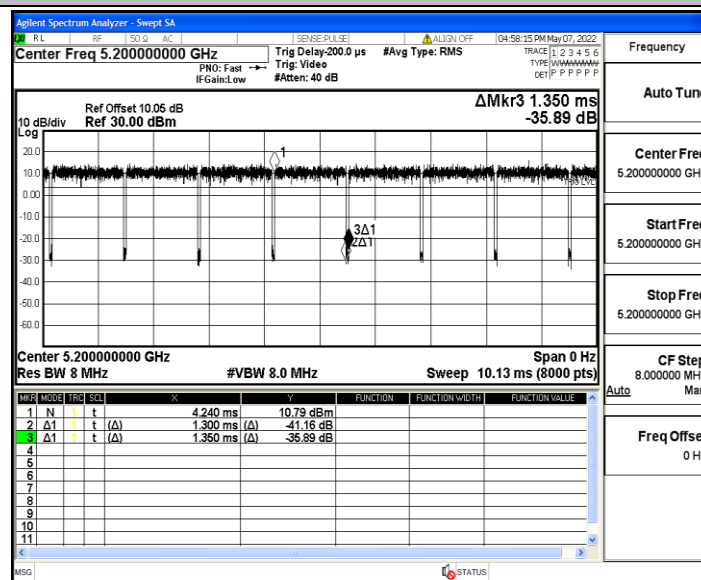
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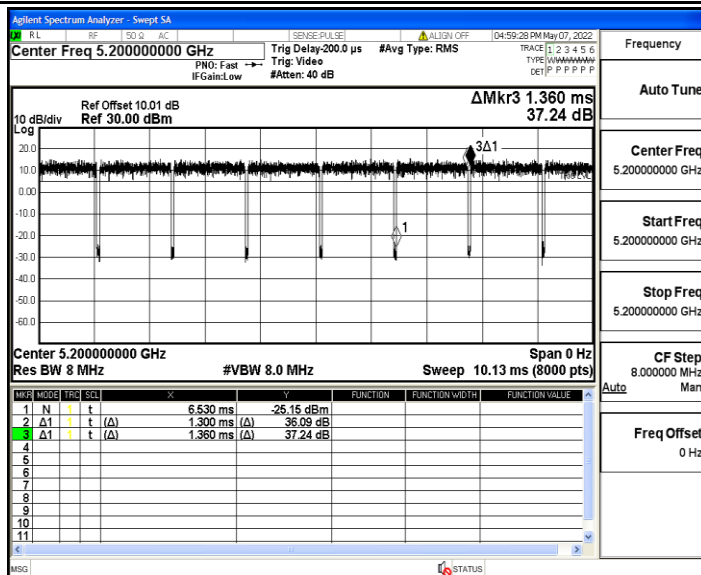
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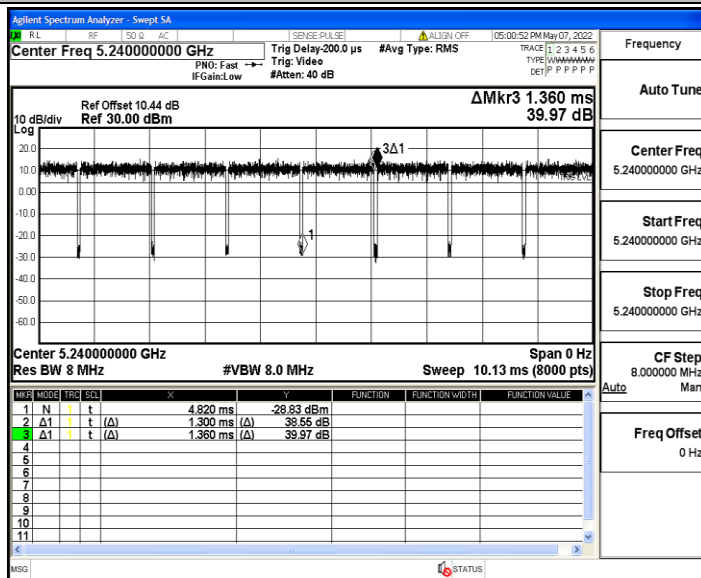
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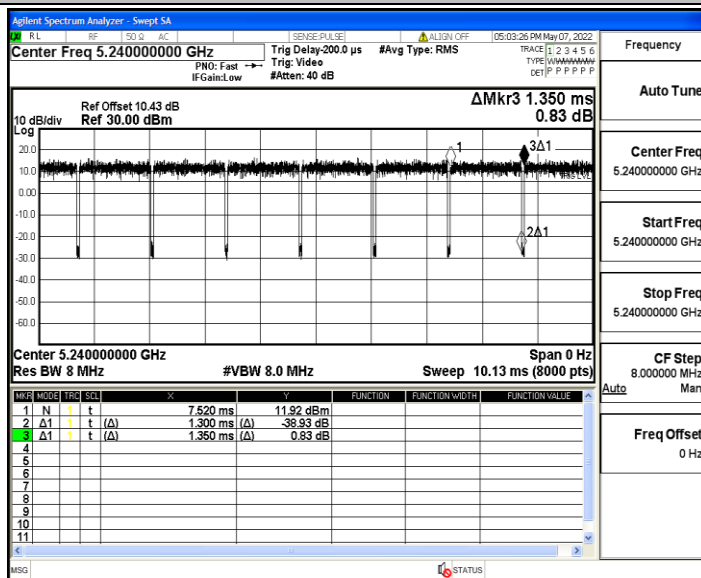
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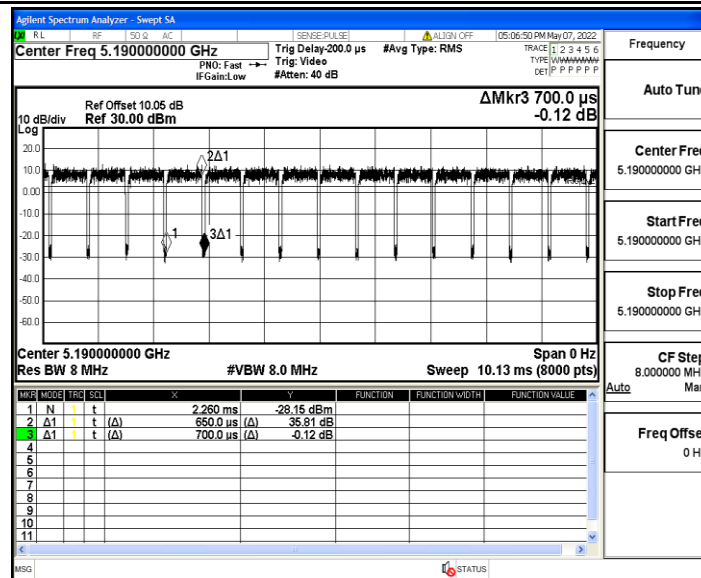
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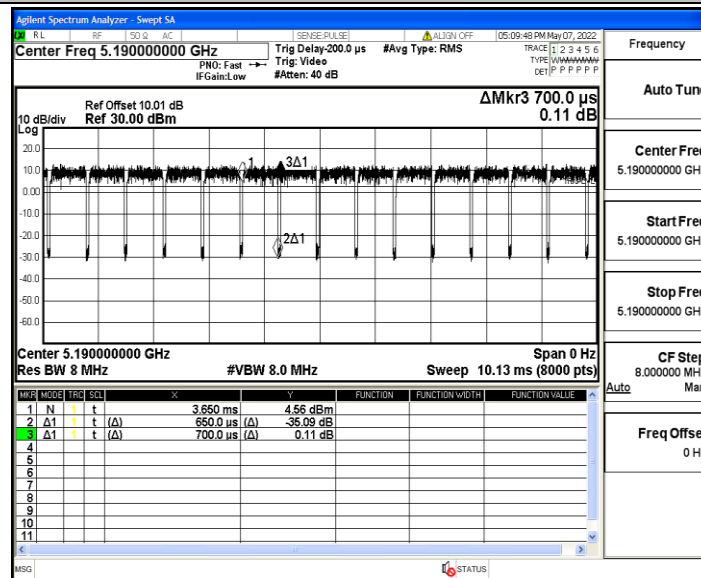
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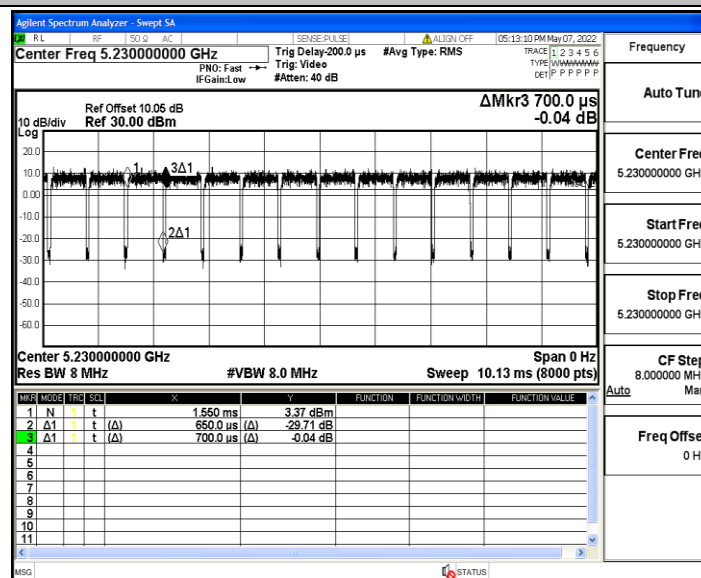
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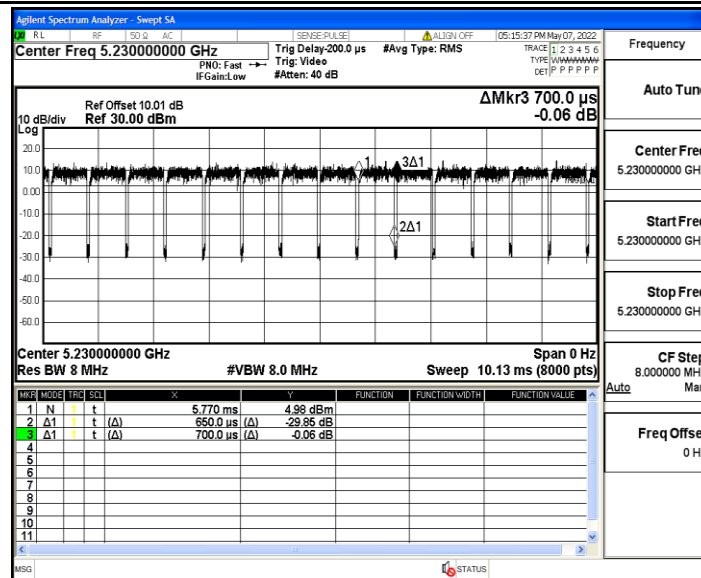
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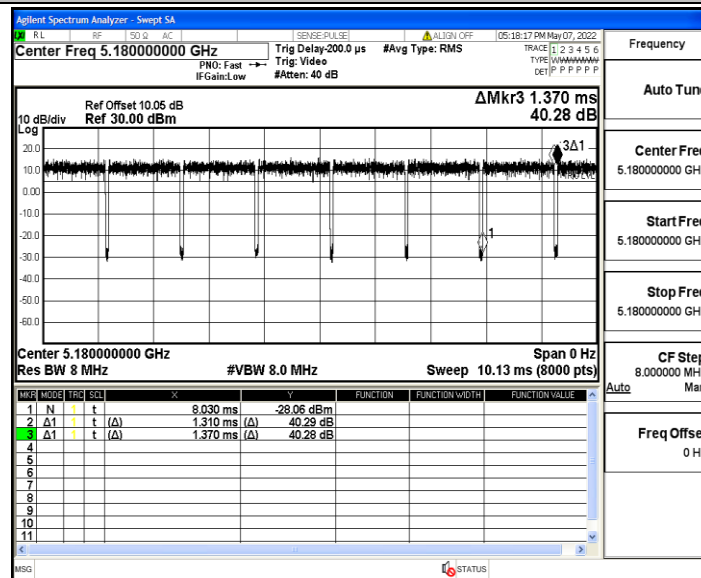
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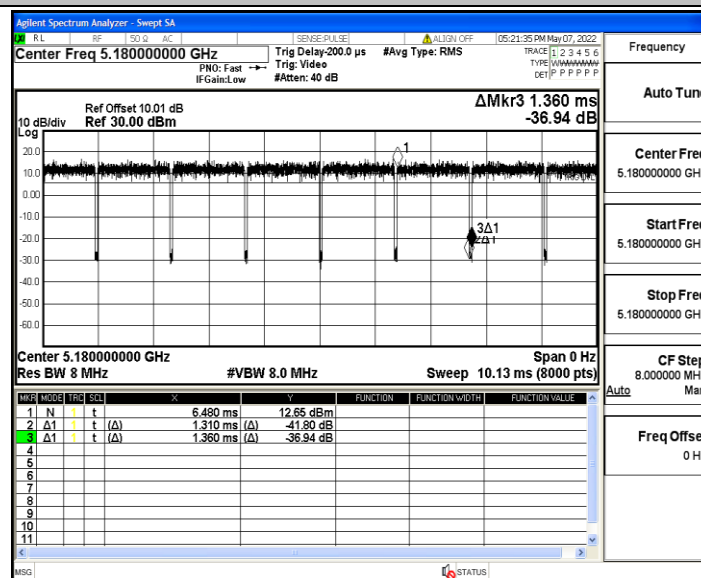
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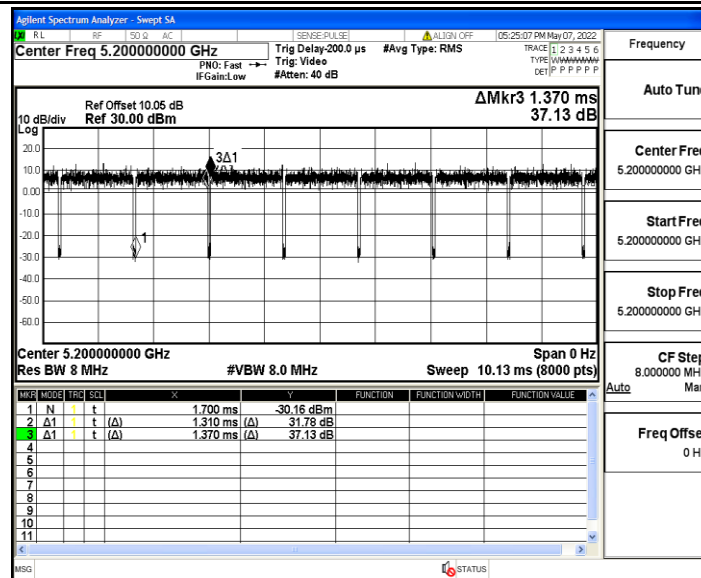
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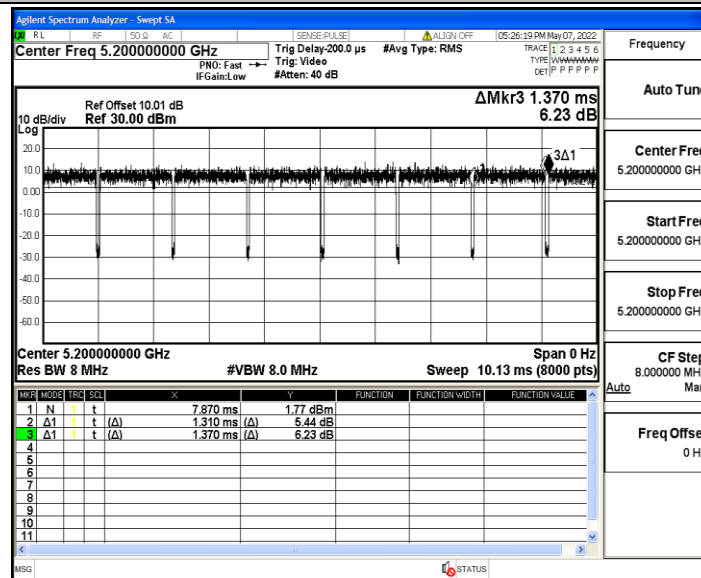
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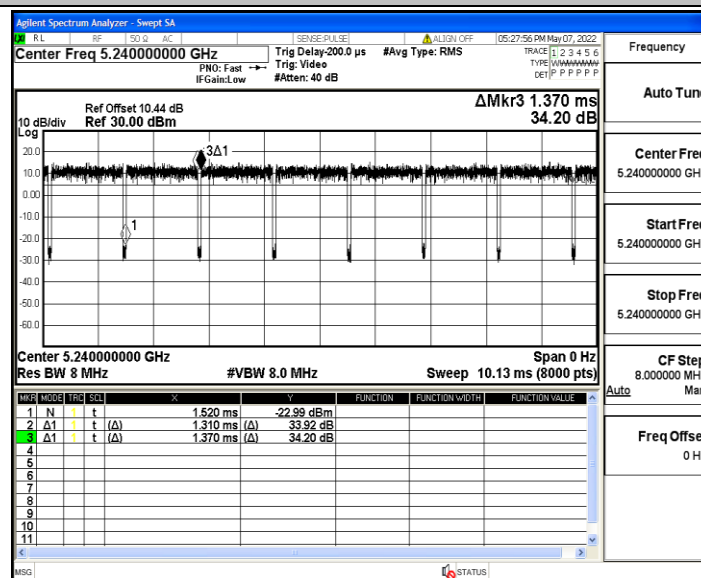
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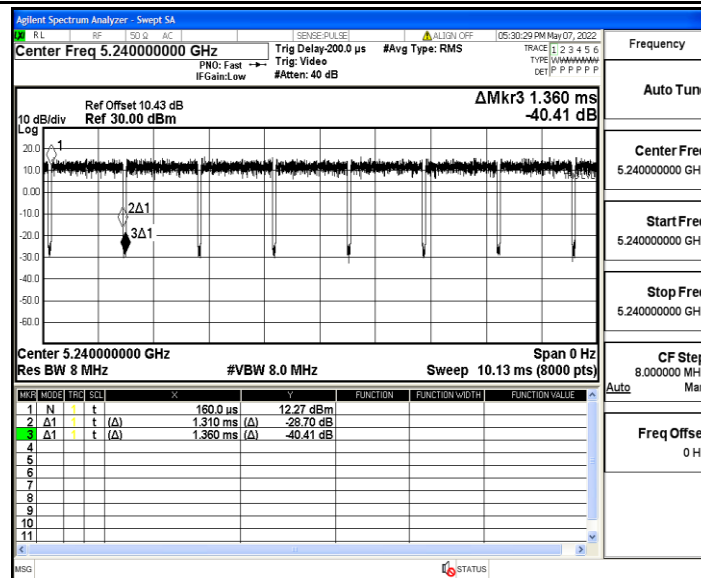
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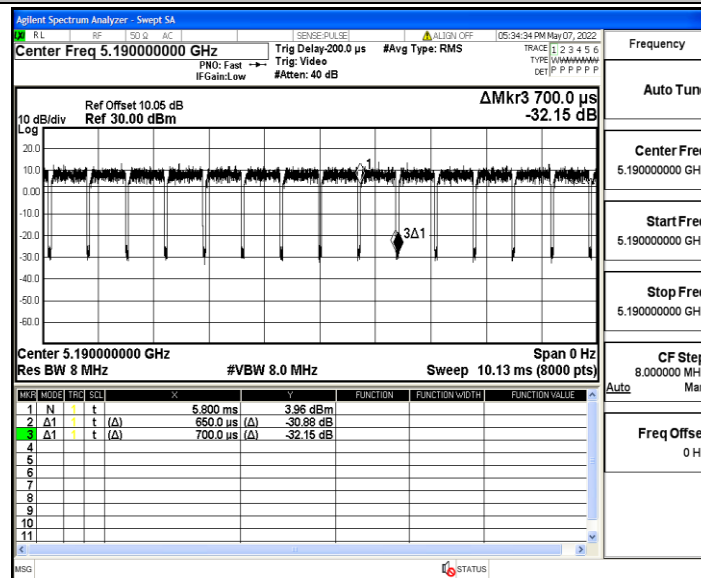
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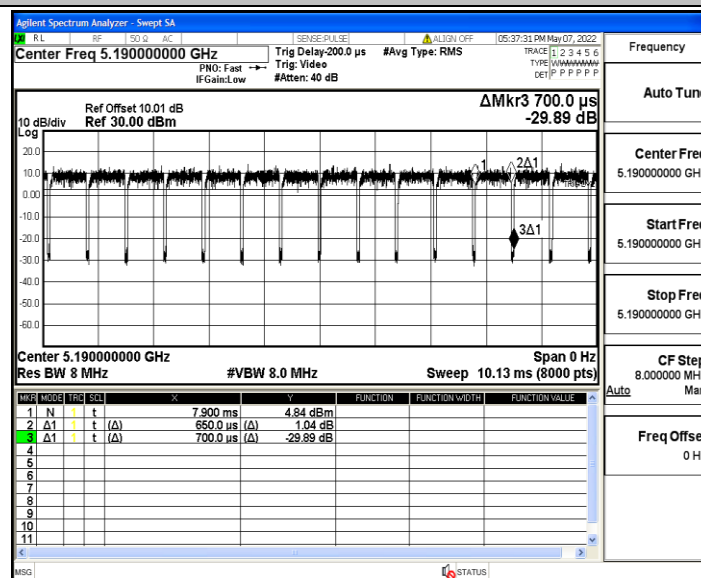
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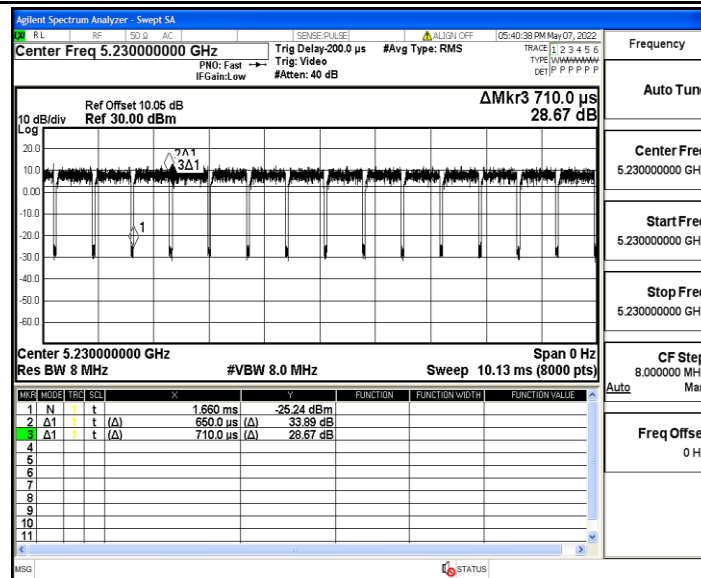
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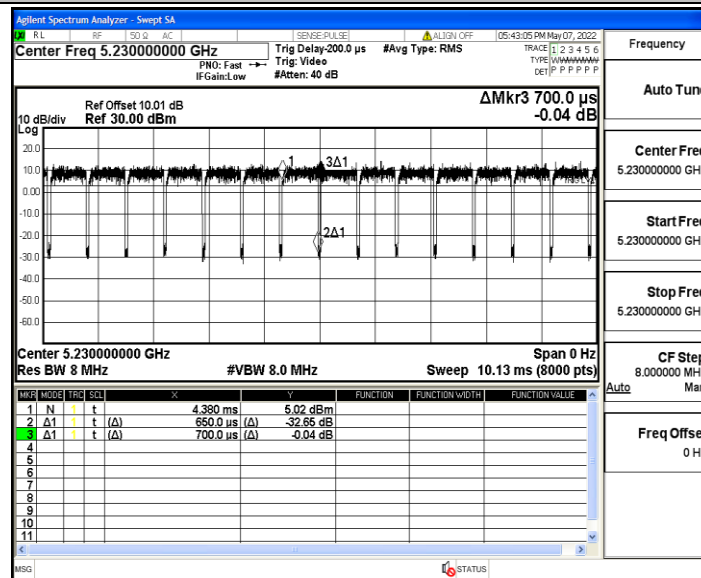
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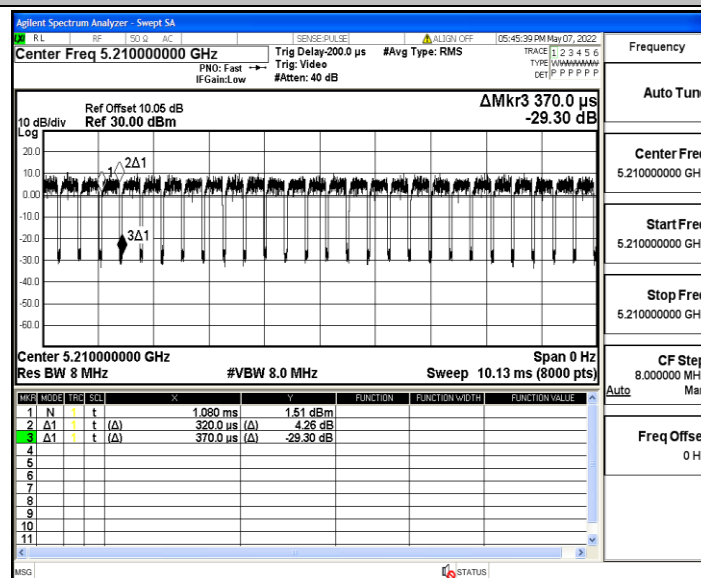
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11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

