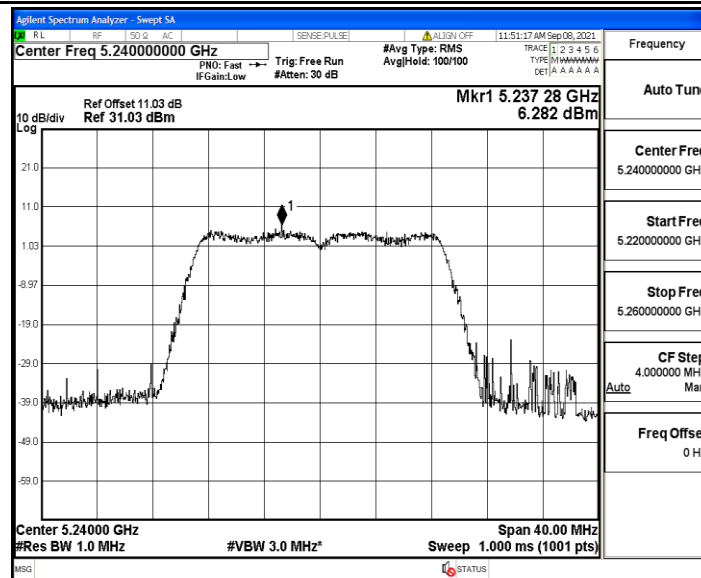
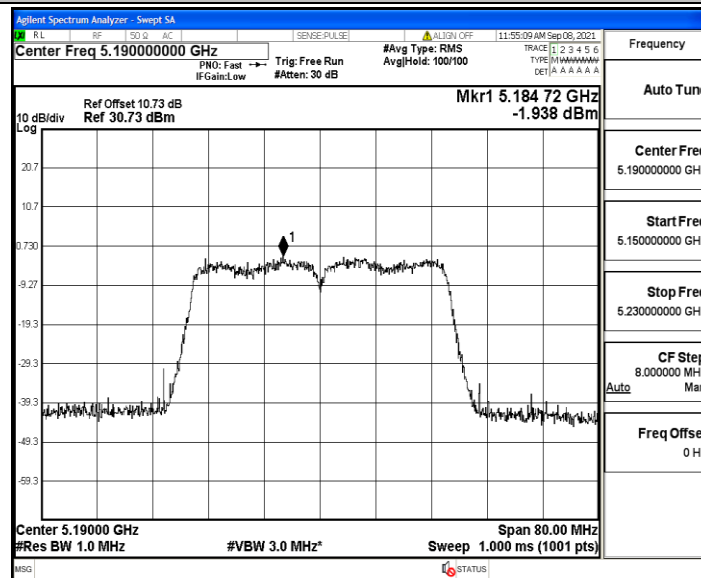
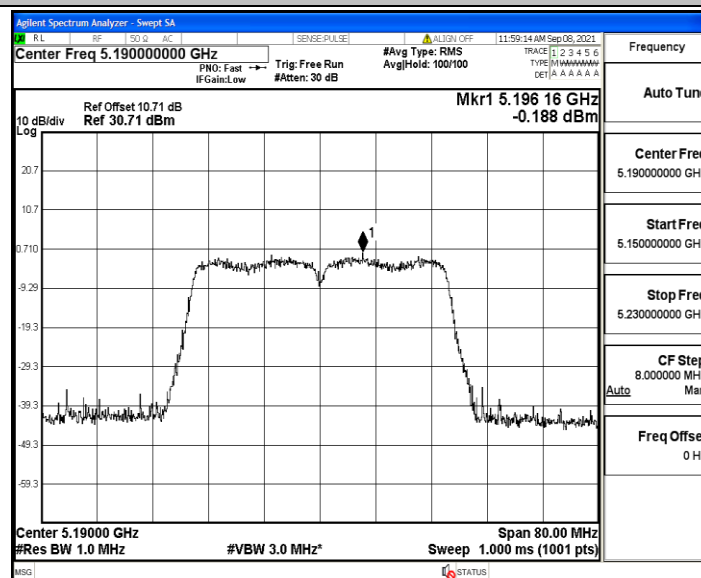




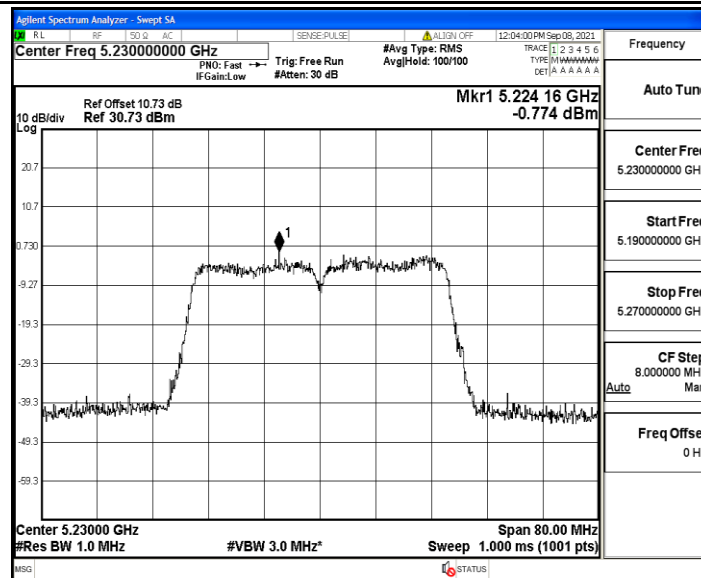
11AC40MIMO_Ant1_5190



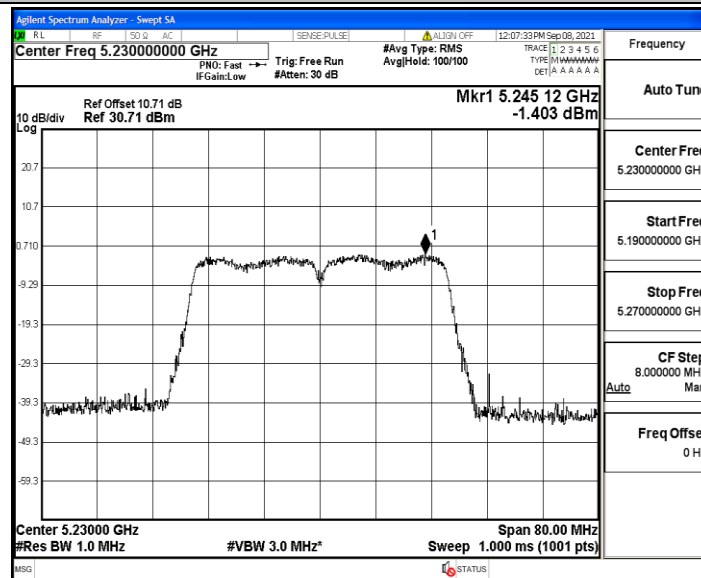
11AC40MIMO_Ant2_5190



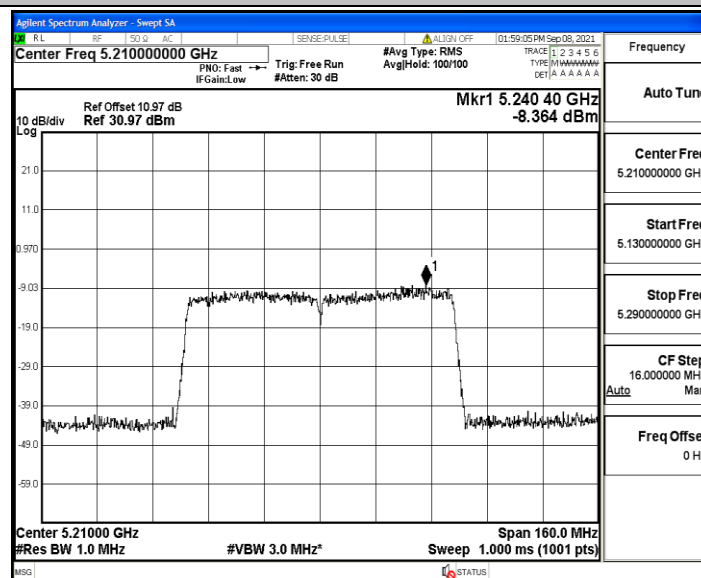
11AC40MIMO_Ant1_5230



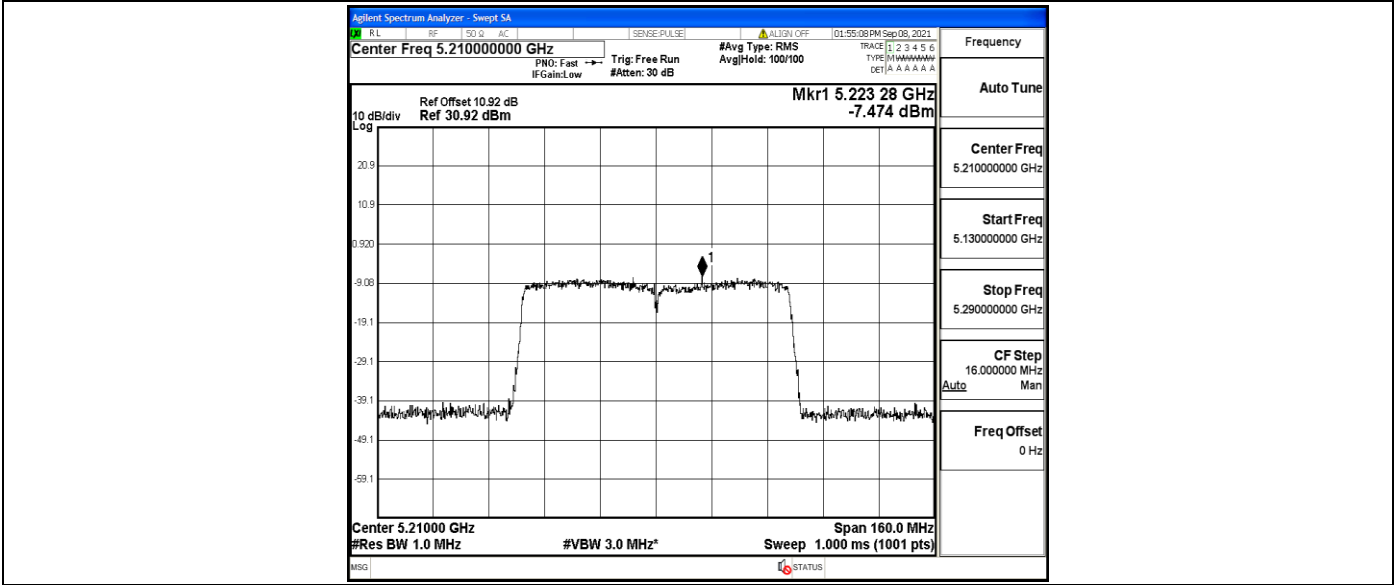
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



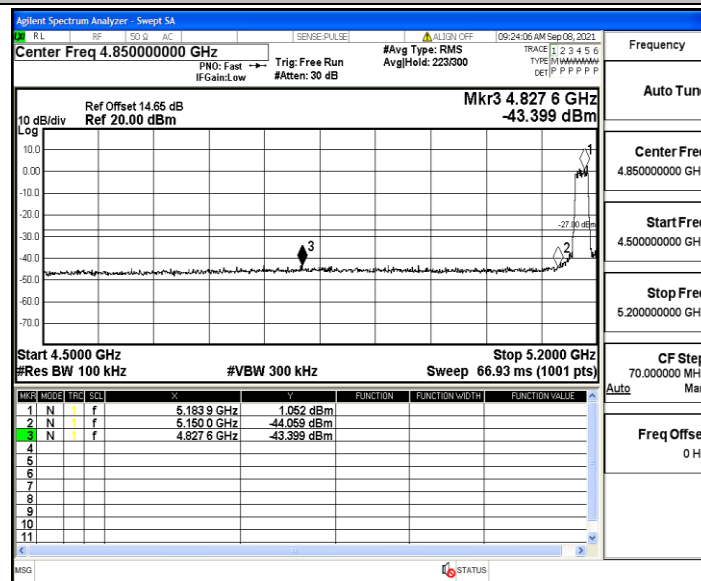
Appendix D: Band edge measurements

Test Result

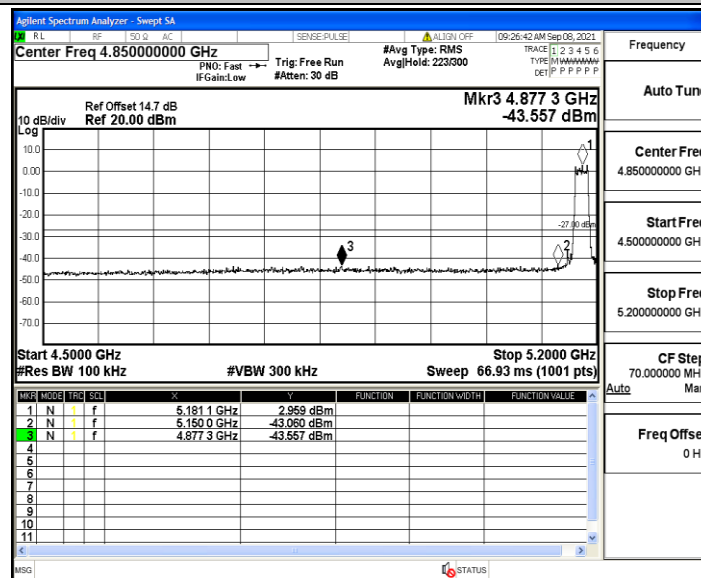
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-43.4	≤ -27	PASS
	Ant2	Low	5180	-43.56	≤ -27	PASS
	Ant1	High	5240	-41.92	≤ -27	PASS
	Ant2	High	5240	-43.05	≤ -27	PASS
11N20MIMO	Ant1	Low	5180	-42.81	≤ -27	PASS
	Ant2	Low	5180	-43.13	≤ -27	PASS
	Ant1	High	5240	-42.94	≤ -27	PASS
	Ant2	High	5240	-42.78	≤ -27	PASS
11N40MIMO	Ant1	Low	5190	-39.54	≤ -27	PASS
	Ant2	Low	5190	-39.54	≤ -27	PASS
	Ant1	High	5230	-43.51	≤ -27	PASS
	Ant2	High	5230	-43.15	≤ -27	PASS
11AC20MIMO	Ant1	Low	5180	-43.11	≤ -27	PASS
	Ant2	Low	5180	-43.2	≤ -27	PASS
	Ant1	High	5240	-42.92	≤ -27	PASS
	Ant2	High	5240	-42.89	≤ -27	PASS
11AC40MIMO	Ant1	Low	5190	-42.29	≤ -27	PASS
	Ant2	Low	5190	-39.97	≤ -27	PASS
	Ant1	High	5230	-43.69	≤ -27	PASS
	Ant2	High	5230	-43.32	≤ -27	PASS
11AC80MIMO	Ant1	Low	5210	-43.18	≤ -27	PASS
	Ant2	Low	5210	-41.9	≤ -27	PASS
	Ant1	High	5210	-42.87	≤ -27	PASS
	Ant2	High	5210	-42.99	≤ -27	PASS

Test Graphs

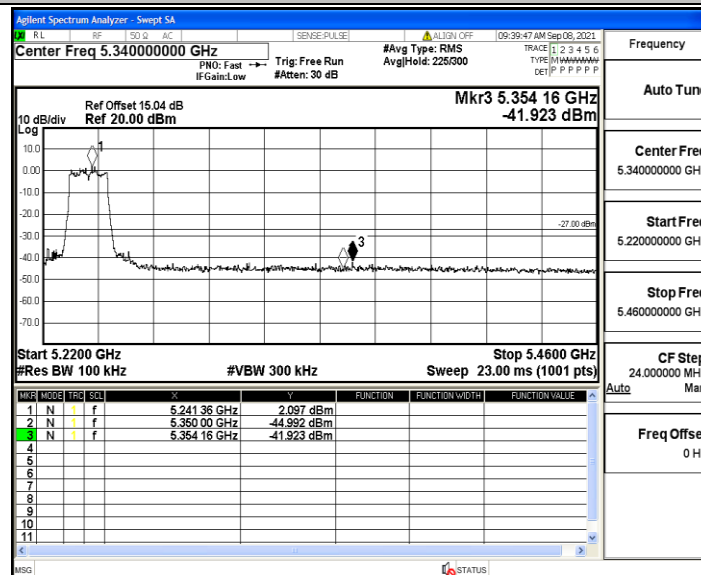
11A_Ant1_Low_5180



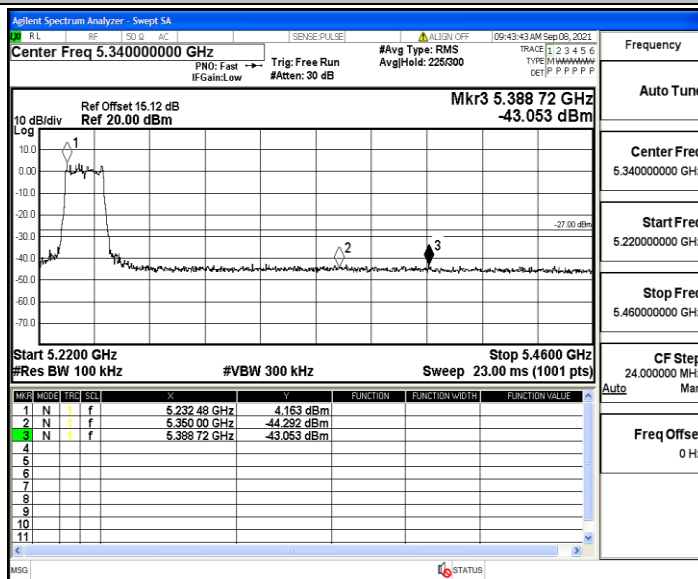
11A_Ant2_Low_5180



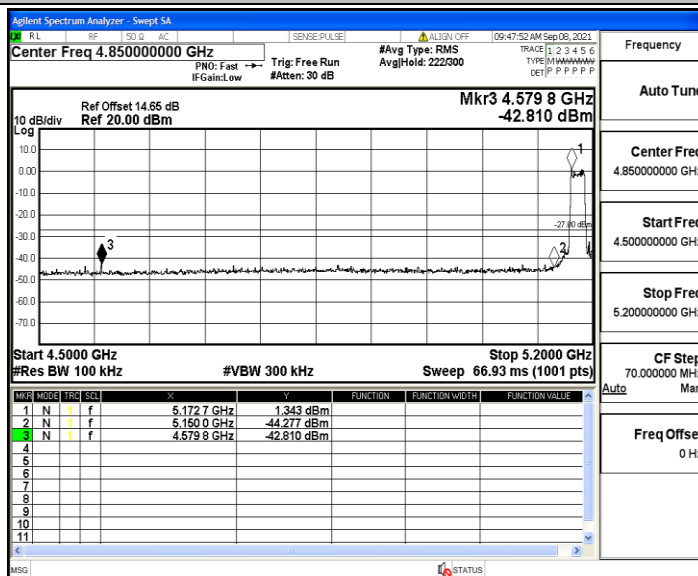
11A_Ant1_High_5240



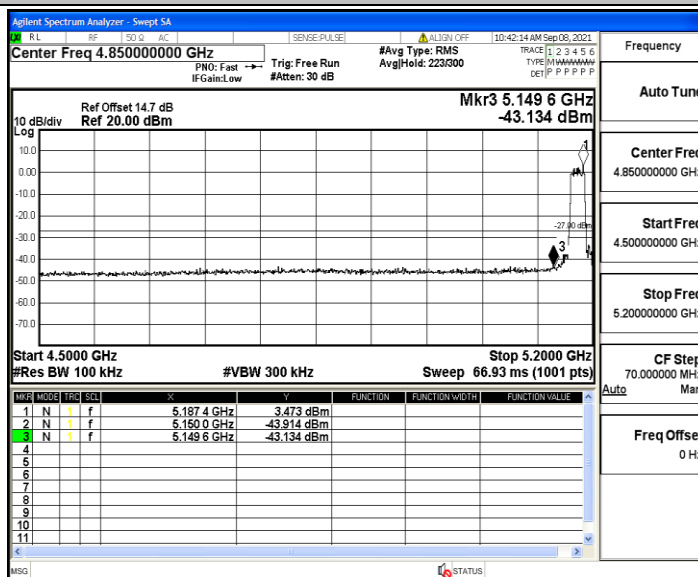
11A_Ant2_High_5240



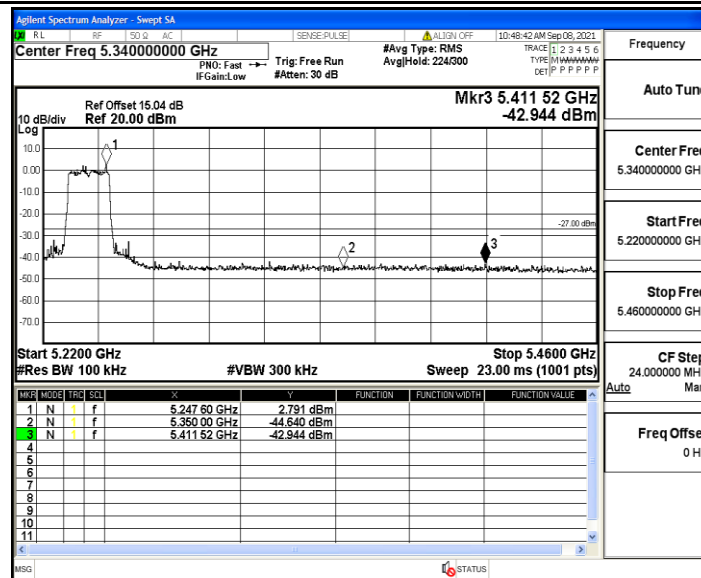
11N20MIMO_Ant1_Low_5180



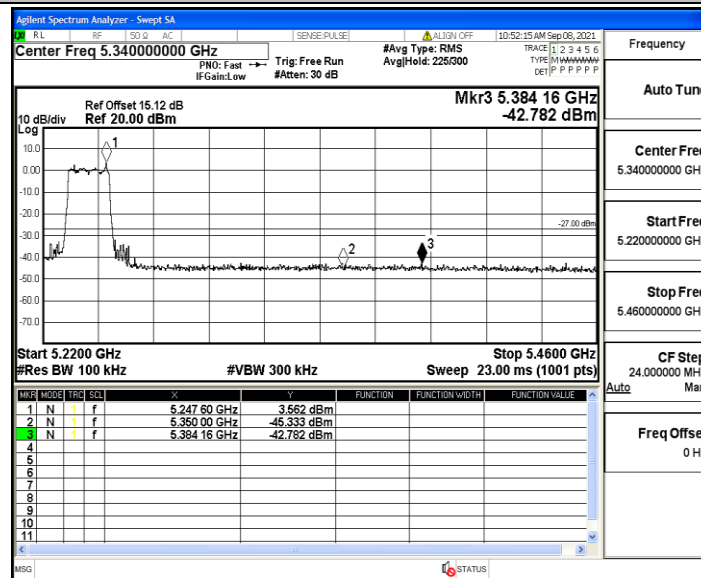
11N20MIMO_Ant2_Low_5180



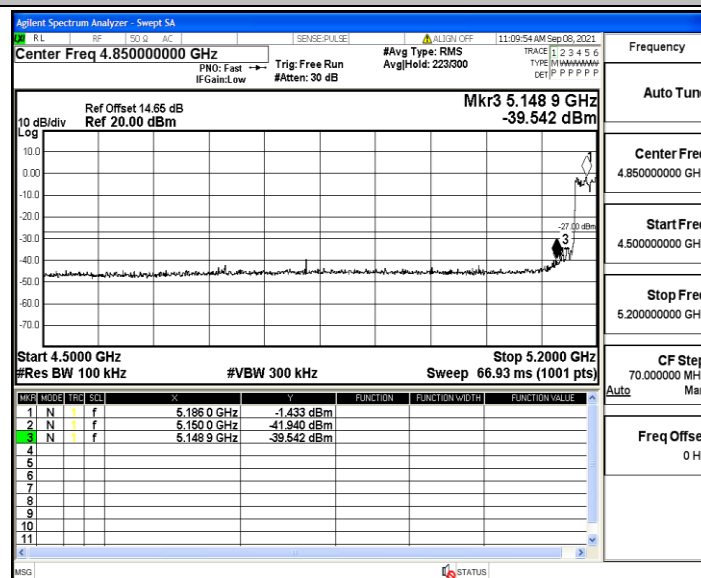
11N20MIMO_Ant1_High_5240



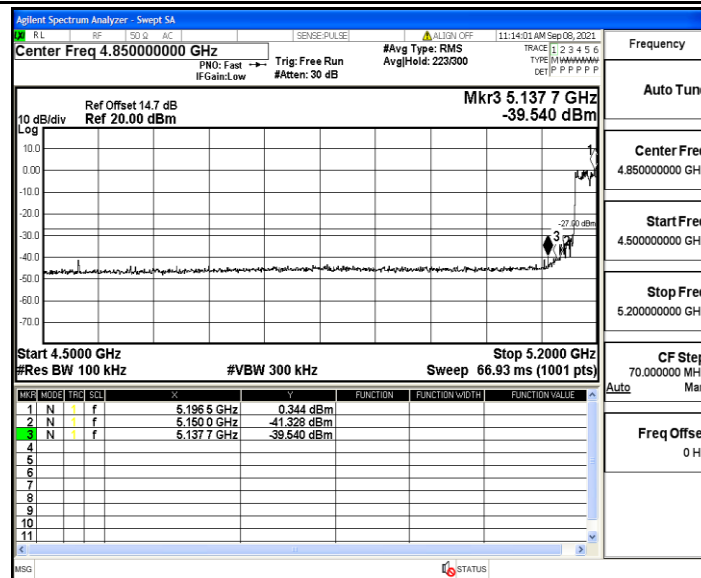
11N20MIMO_Ant2_High_5240



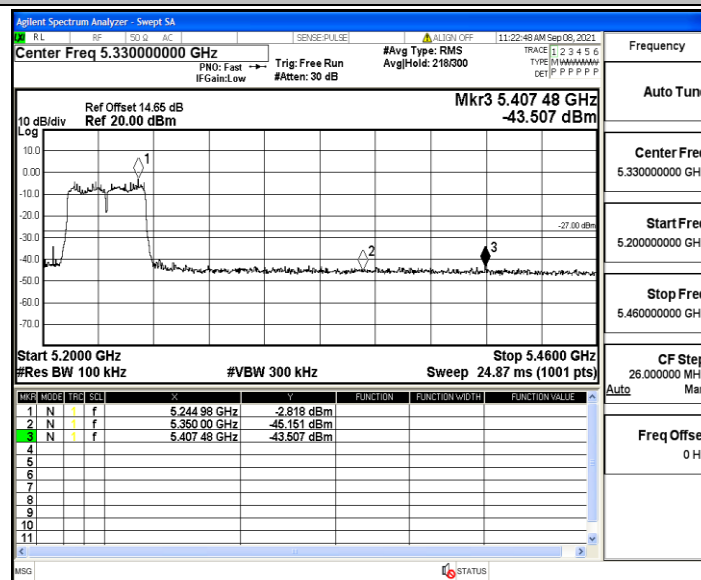
11N40MIMO_Ant1_Low_5190



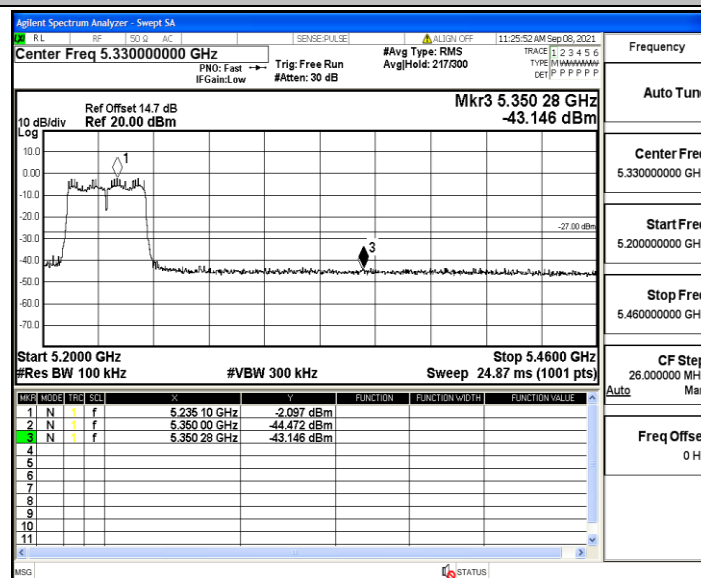
11N40MIMO_Ant2_Low_5190



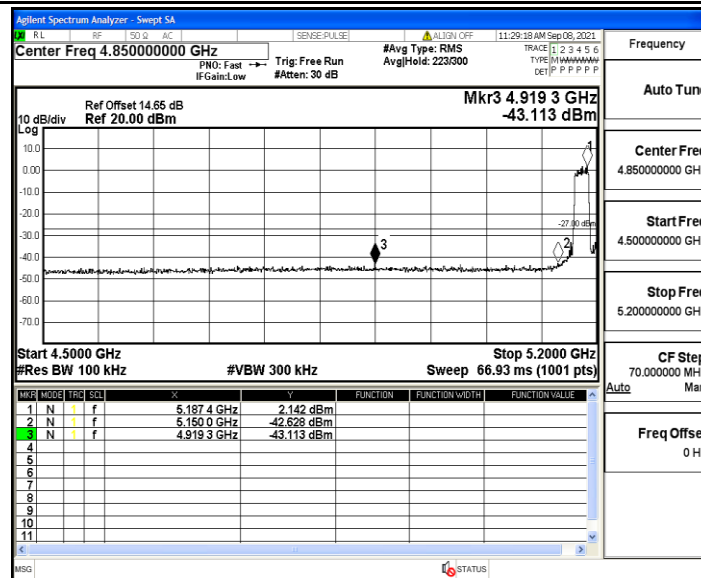
11N40MIMO_Ant1_High_5230



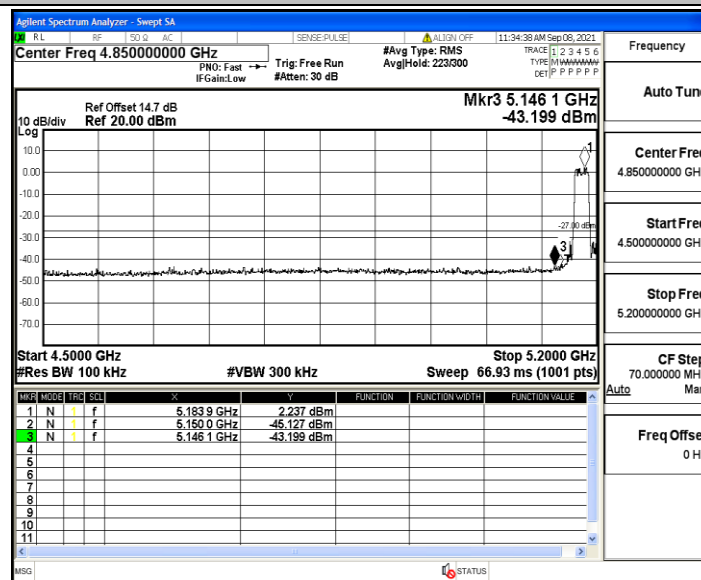
11N40MIMO_Ant2_High_5230



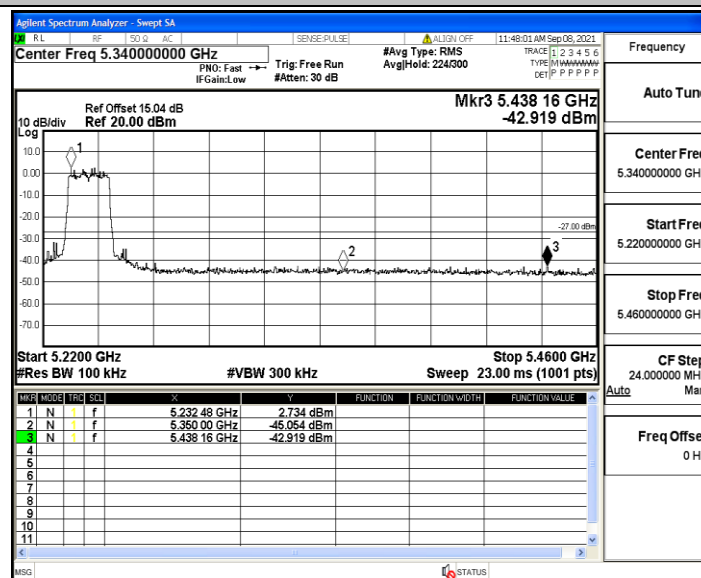
11AC20MIMO_Ant1_Low_5180



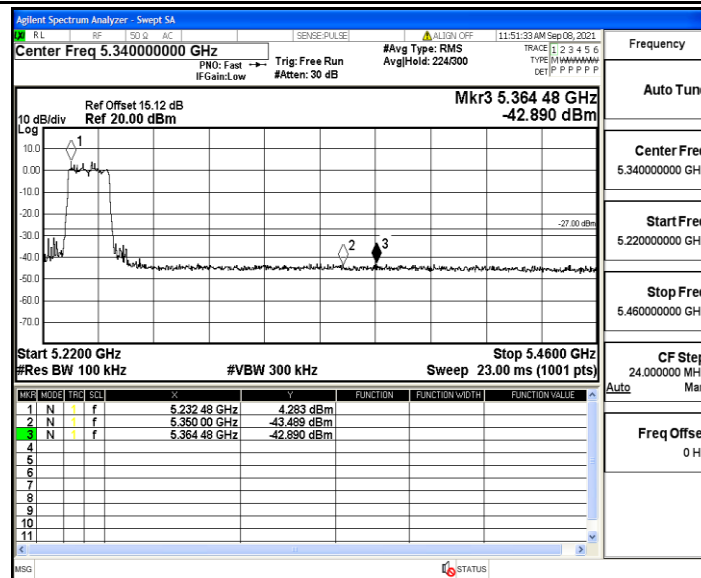
11AC20MIMO_Ant2_Low_5180



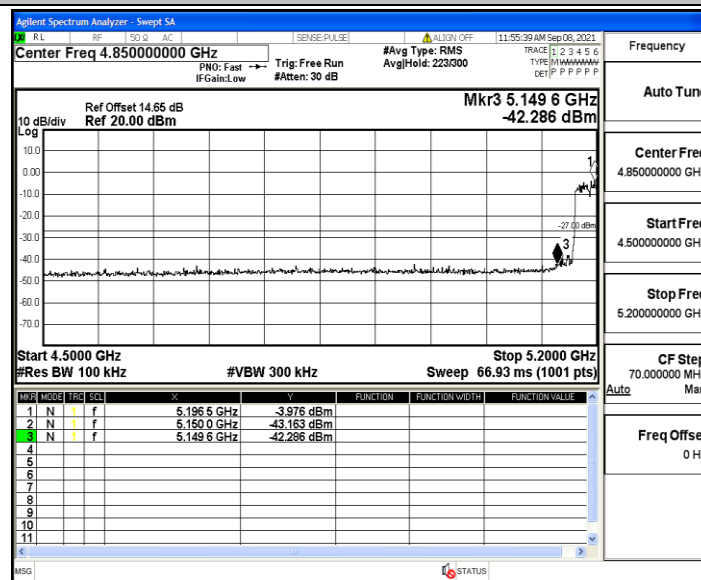
11AC20MIMO_Ant1_High_5240



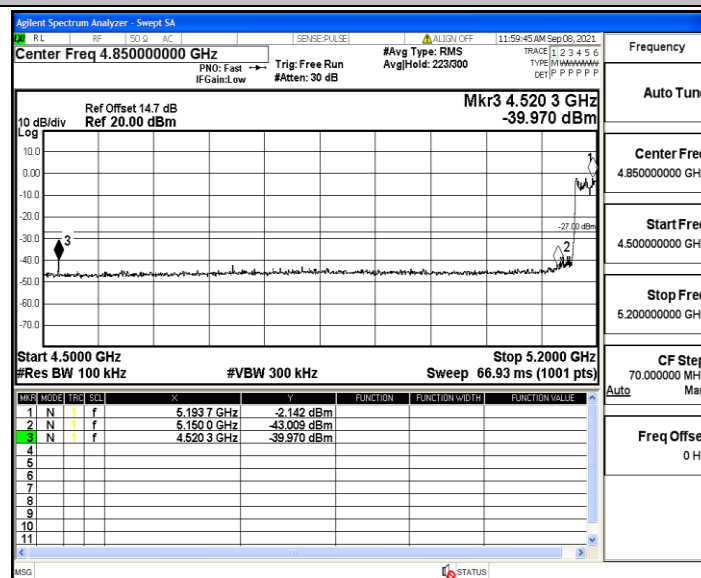
11AC20MIMO_Ant2_High_5240



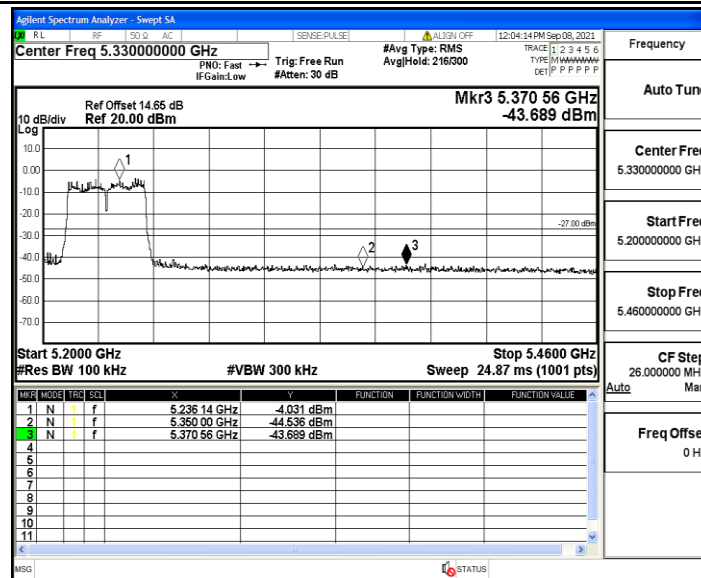
11AC40MIMO_Ant1_Low_5190



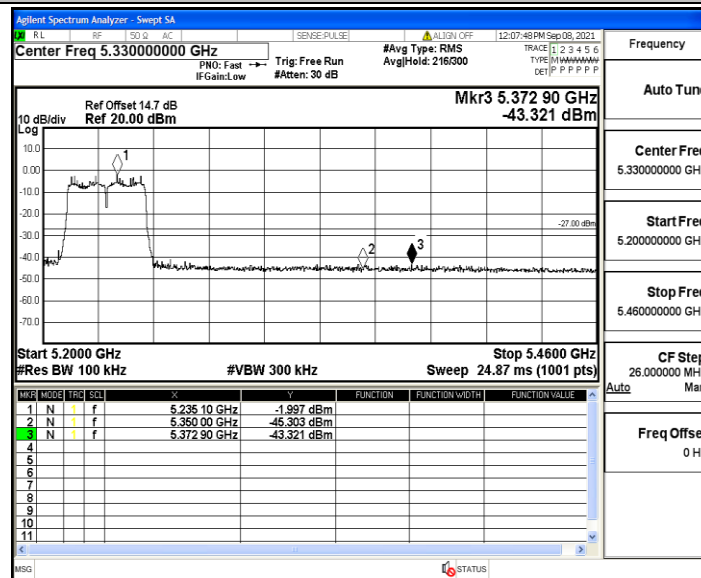
11AC40MIMO_Ant2_Low_5190



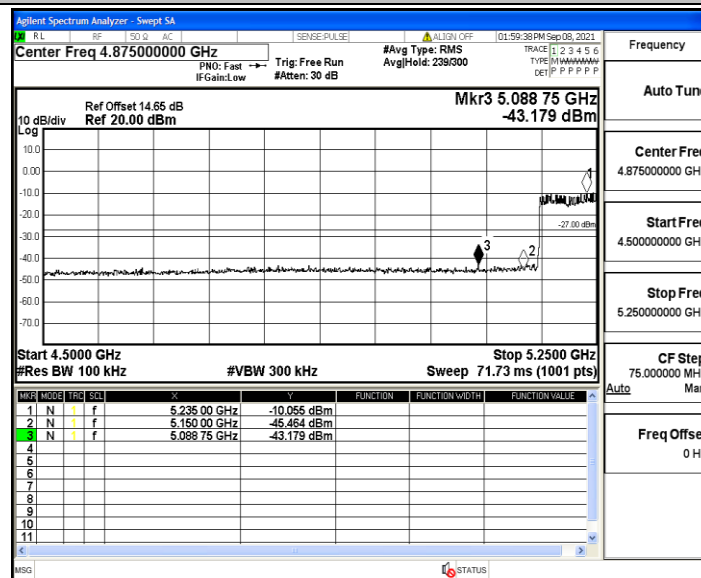
11AC40MIMO_Ant1_High_5230



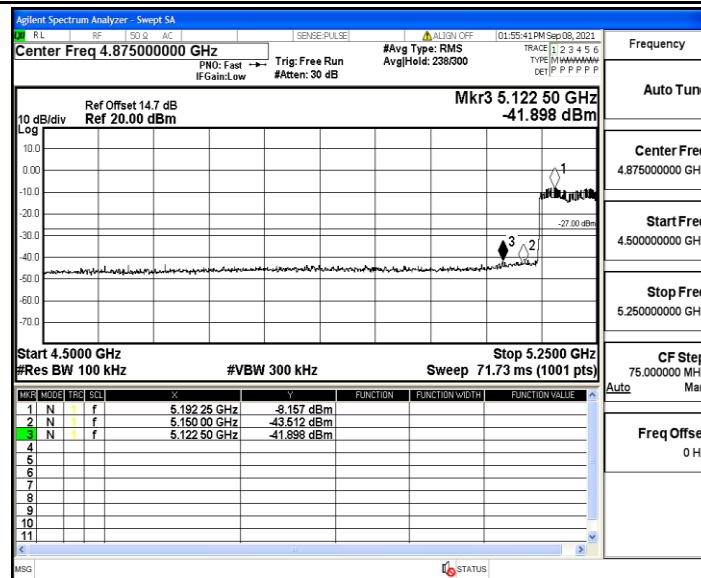
11AC40MIMO_Ant2_High_5230



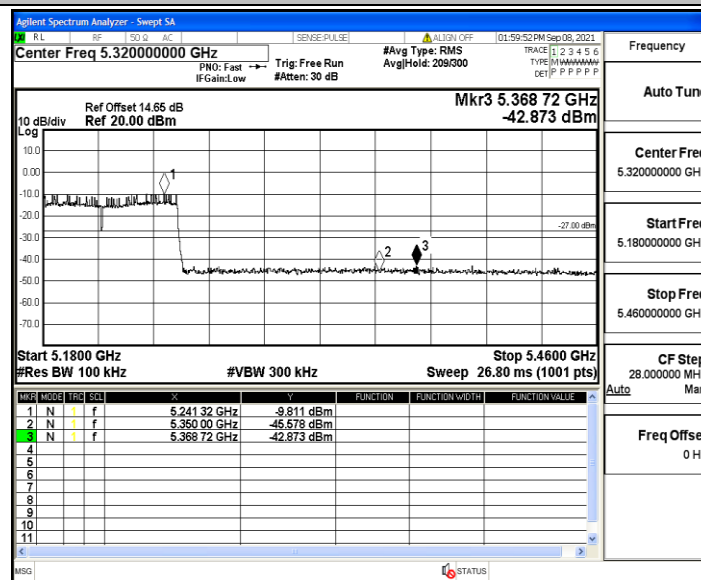
11AC80MIMO_Ant1_Low_5210



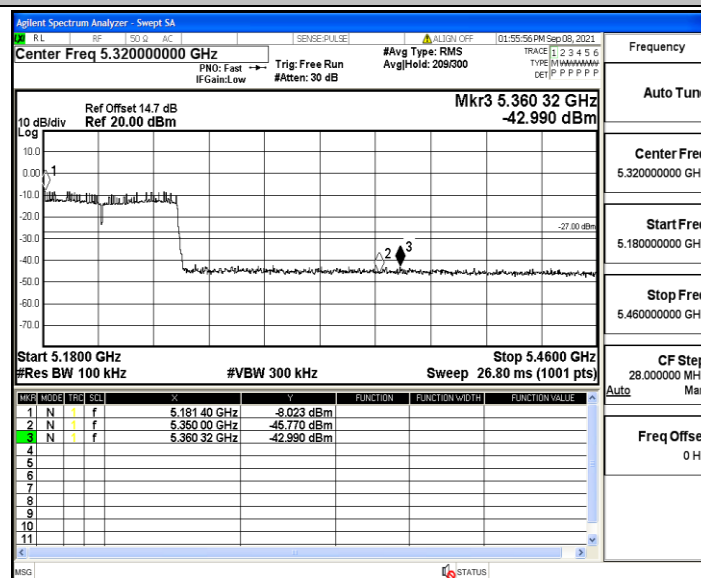
11AC80MIMO_Ant2_Low_5210



11AC80MIMO_Ant1_High_5210



11AC80MIMO_Ant2_High_5210



Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.967625	5150 – 5250	PASS
5180	20	108	5179.972590	5150 – 5250	PASS
5180	50	120	5179.989693	5150 – 5250	PASS
5180	40	120	5180.082718	5150 – 5250	PASS
5180	30	120	5180.084506	5150 – 5250	PASS
5180	20	120	5179.911941	5150 – 5250	PASS
5180	10	120	5179.940784	5150 – 5250	PASS
5180	0	120	5180.053766	5150 – 5250	PASS
5180	-10	120	5180.000981	5150 – 5250	PASS
5180	-20	120	5180.067586	5150 – 5250	PASS
5180	-30	120	5180.078574	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.078796	5150 – 5250	PASS
5180	20	108	5180.030431	5150 – 5250	PASS
5180	50	120	5179.934591	5150 – 5250	PASS
5180	40	120	5179.938848	5150 – 5250	PASS
5180	30	120	5180.000890	5150 – 5250	PASS
5180	20	120	5179.914516	5150 – 5250	PASS
5180	10	120	5180.092232	5150 – 5250	PASS
5180	0	120	5179.983585	5150 – 5250	PASS
5180	-10	120	5179.959472	5150 – 5250	PASS
5180	-20	120	5180.016126	5150 – 5250	PASS
5180	-30	120	5180.055101	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.085710	5150 – 5250	PASS
5200	20	108	5199.960686	5150 – 5250	PASS
5200	50	120	5199.913730	5150 – 5250	PASS
5200	40	120	5200.072611	5150 – 5250	PASS
5200	30	120	5199.986544	5150 – 5250	PASS
5200	20	120	5199.956019	5150 – 5250	PASS
5200	10	120	5199.917379	5150 – 5250	PASS
5200	0	120	5200.065679	5150 – 5250	PASS
5200	-10	120	5200.079765	5150 – 5250	PASS
5200	-20	120	5199.913253	5150 – 5250	PASS
5200	-30	120	5199.913255	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.049190	5150 – 5250	PASS
5200	20	108	5199.913773	5150 – 5250	PASS
5200	50	120	5199.951433	5150 – 5250	PASS
5200	40	120	5200.058309	5150 – 5250	PASS
5200	30	120	5199.902425	5150 – 5250	PASS
5200	20	120	5200.085642	5150 – 5250	PASS
5200	10	120	5199.954396	5150 – 5250	PASS
5200	0	120	5199.929722	5150 – 5250	PASS
5200	-10	120	5199.933629	5150 – 5250	PASS
5200	-20	120	5199.917170	5150 – 5250	PASS
5200	-30	120	5200.032532	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.069850	5150 – 5250	PASS
5240	20	108	5240.075289	5150 – 5250	PASS
5240	50	120	5240.020742	5150 – 5250	PASS
5240	40	120	5239.919912	5150 – 5250	PASS
5240	30	120	5240.057048	5150 – 5250	PASS
5240	20	120	5240.002772	5150 – 5250	PASS
5240	10	120	5239.936433	5150 – 5250	PASS
5240	0	120	5240.092808	5150 – 5250	PASS
5240	-10	120	5240.016293	5150 – 5250	PASS
5240	-20	120	5239.911436	5150 – 5250	PASS
5240	-30	120	5240.068900	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.099083	5150 – 5250	PASS
5240	20	108	5239.968825	5150 – 5250	PASS
5240	50	120	5239.976865	5150 – 5250	PASS
5240	40	120	5239.920943	5150 – 5250	PASS
5240	30	120	5239.967476	5150 – 5250	PASS
5240	20	120	5240.087603	5150 – 5250	PASS
5240	10	120	5240.071918	5150 – 5250	PASS
5240	0	120	5240.093742	5150 – 5250	PASS
5240	-10	120	5240.070690	5150 – 5250	PASS
5240	-20	120	5239.952488	5150 – 5250	PASS
5240	-30	120	5240.090698	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5190.023870	5150 – 5250	PASS
5190	20	108	5190.073035	5150 – 5250	PASS
5190	50	120	5190.033854	5150 – 5250	PASS
5190	40	120	5189.919580	5150 – 5250	PASS
5190	30	120	5190.016423	5150 – 5250	PASS
5190	20	120	5189.904904	5150 – 5250	PASS
5190	10	120	5190.037568	5150 – 5250	PASS
5190	0	120	5189.972564	5150 – 5250	PASS
5190	-10	120	5190.026117	5150 – 5250	PASS
5190	-20	120	5189.963379	5150 – 5250	PASS
5190	-30	120	5190.030647	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.968999	5150 – 5250	PASS
5190	20	108	5190.091351	5150 – 5250	PASS
5190	50	120	5189.983875	5150 – 5250	PASS
5190	40	120	5189.919102	5150 – 5250	PASS
5190	30	120	5189.960408	5150 – 5250	PASS
5190	20	120	5189.977755	5150 – 5250	PASS
5190	10	120	5190.074461	5150 – 5250	PASS
5190	0	120	5189.935915	5150 – 5250	PASS
5190	-10	120	5189.992862	5150 – 5250	PASS
5190	-20	120	5189.979772	5150 – 5250	PASS
5190	-30	120	5189.925399	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.953928	5150 – 5250	PASS
5230	20	108	5230.065888	5150 – 5250	PASS
5230	50	120	5230.033758	5150 – 5250	PASS
5230	40	120	5230.025625	5150 – 5250	PASS
5230	30	120	5229.968345	5150 – 5250	PASS
5230	20	120	5230.067510	5150 – 5250	PASS
5230	10	120	5230.011083	5150 – 5250	PASS
5230	0	120	5229.976672	5150 – 5250	PASS
5230	-10	120	5230.031467	5150 – 5250	PASS
5230	-20	120	5229.959498	5150 – 5250	PASS
5230	-30	120	5230.000305	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.032125	5150 – 5250	PASS
5230	20	108	5230.070322	5150 – 5250	PASS
5230	50	120	5230.018338	5150 – 5250	PASS
5230	40	120	5230.067112	5150 – 5250	PASS
5230	30	120	5230.048215	5150 – 5250	PASS
5230	20	120	5230.012878	5150 – 5250	PASS
5230	10	120	5230.050243	5150 – 5250	PASS
5230	0	120	5230.041826	5150 – 5250	PASS
5230	-10	120	5229.977148	5150 – 5250	PASS
5230	-20	120	5230.007891	5150 – 5250	PASS
5230	-30	120	5230.004623	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5209.916946	5150 – 5250	PASS
5210	20	108	5209.981996	5150 – 5250	PASS
5210	50	120	5210.037468	5150 – 5250	PASS
5210	40	120	5209.949147	5150 – 5250	PASS
5210	30	120	5210.053078	5150 – 5250	PASS
5210	20	120	5209.913767	5150 – 5250	PASS
5210	10	120	5210.034501	5150 – 5250	PASS
5210	0	120	5210.050818	5150 – 5250	PASS
5210	-10	120	5209.923588	5150 – 5250	PASS
5210	-20	120	5209.932283	5150 – 5250	PASS
5210	-30	120	5210.009487	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.028754	5150 – 5250	PASS
5210	20	108	5209.980515	5150 – 5250	PASS
5210	50	120	5210.004729	5150 – 5250	PASS
5210	40	120	5210.010871	5150 – 5250	PASS
5210	30	120	5209.990014	5150 – 5250	PASS
5210	20	120	5210.070409	5150 – 5250	PASS
5210	10	120	5210.003877	5150 – 5250	PASS
5210	0	120	5210.010474	5150 – 5250	PASS
5210	-10	120	5209.989431	5150 – 5250	PASS
5210	-20	120	5209.946411	5150 – 5250	PASS
5210	-30	120	5210.070966	5150 – 5250	PASS

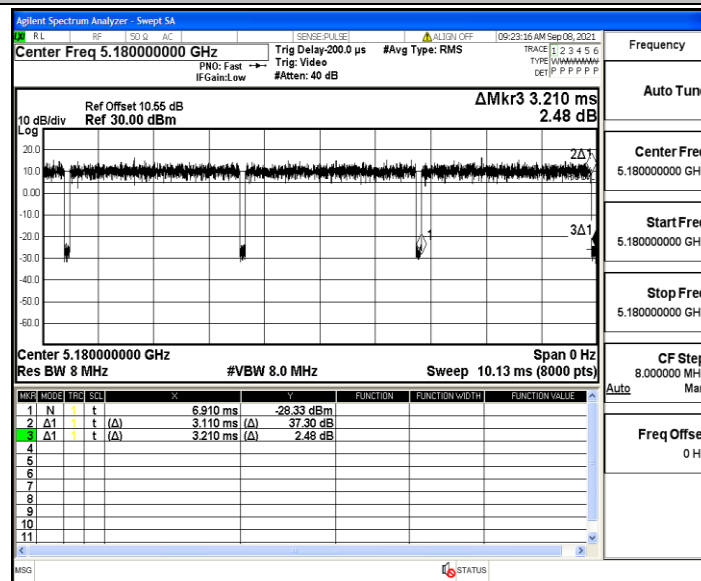
Appendix F: Duty Cycle

Test Result

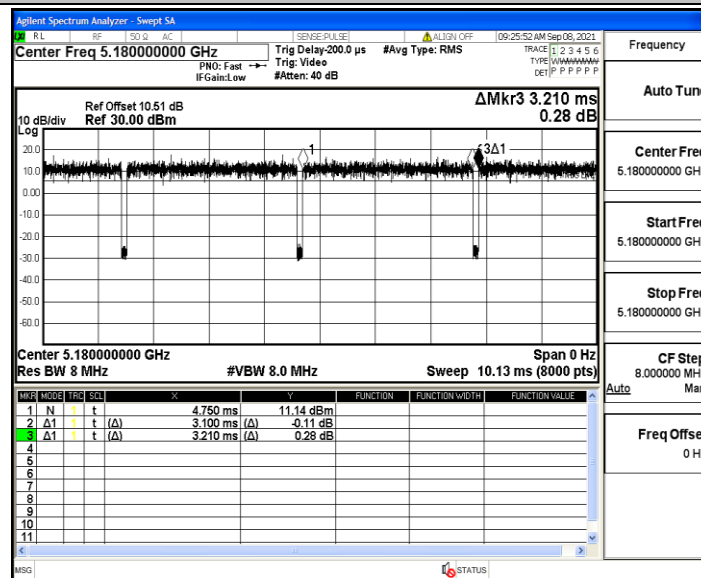
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	3.11	3.21	96.88
	Ant2	5180	3.10	3.21	96.57
	Ant1	5200	3.10	3.21	96.57
	Ant2	5200	3.10	3.21	96.57
	Ant1	5240	3.11	3.21	96.88
	Ant2	5240	3.11	3.21	96.88
11N20MIMO	Ant1	5180	4.76	4.87	97.74
	Ant2	5180	4.77	4.87	97.95
	Ant1	5200	4.76	4.88	97.54
	Ant2	5200	4.77	4.87	97.95
	Ant1	5240	4.77	4.87	97.95
	Ant2	5240	4.76	4.87	97.74
11N40MIMO	Ant1	5190	2.32	2.42	95.87
	Ant2	5190	2.31	2.41	95.85
	Ant1	5230	2.31	2.42	95.45
	Ant2	5230	2.32	2.42	95.87
11AC20MIMO	Ant1	5180	4.78	4.88	97.95
	Ant2	5180	4.78	4.88	97.95
	Ant1	5200	4.79	4.89	97.96
	Ant2	5200	4.78	4.88	97.95
	Ant1	5240	4.78	4.89	97.75
	Ant2	5240	4.78	4.89	97.75
11AC40MIMO	Ant1	5190	2.33	2.43	95.88
	Ant2	5190	2.33	2.44	95.49
	Ant1	5230	2.33	2.43	95.88
	Ant2	5230	2.33	2.44	95.49
11AC80MIMO	Ant1	5210	1.09	1.20	90.83
	Ant2	5210	1.10	1.21	90.91

Test Graphs

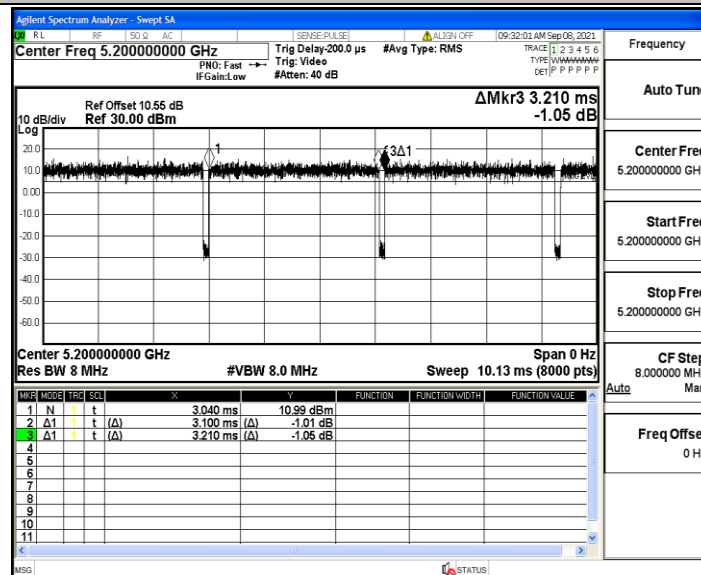
11A_Ant1_5180



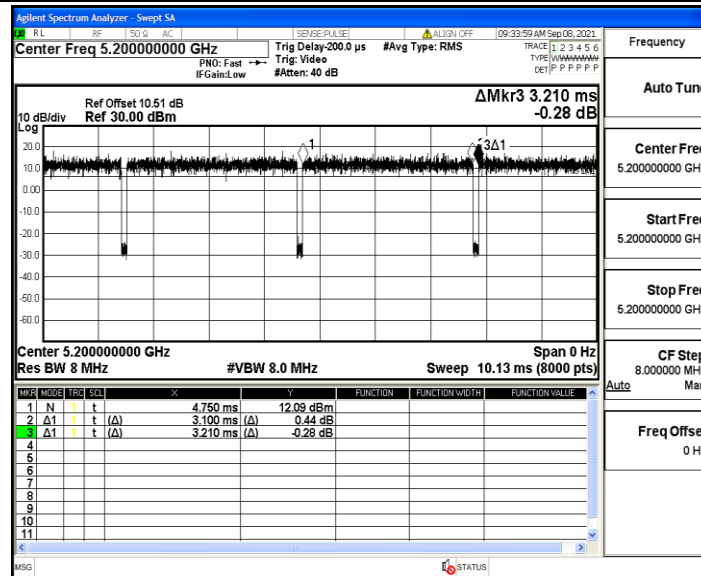
11A_Ant2_5180



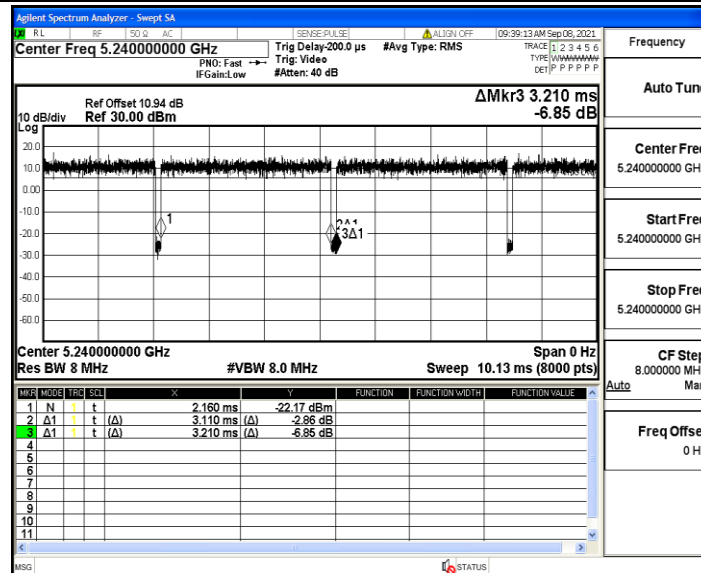
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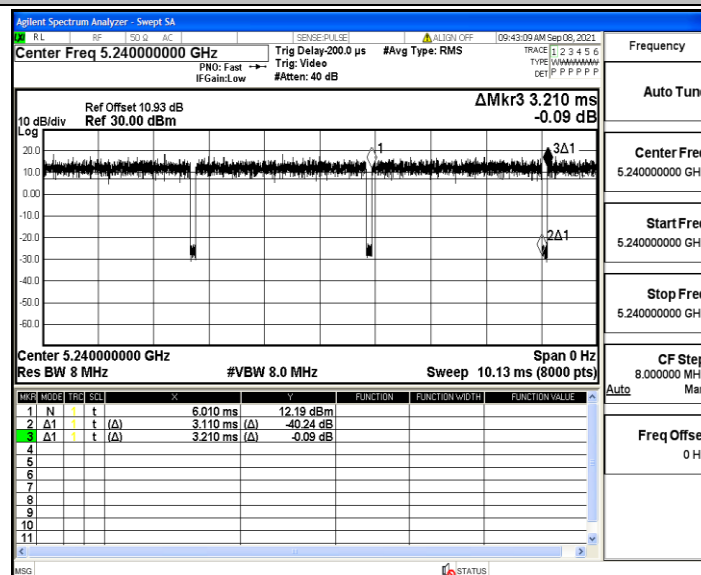
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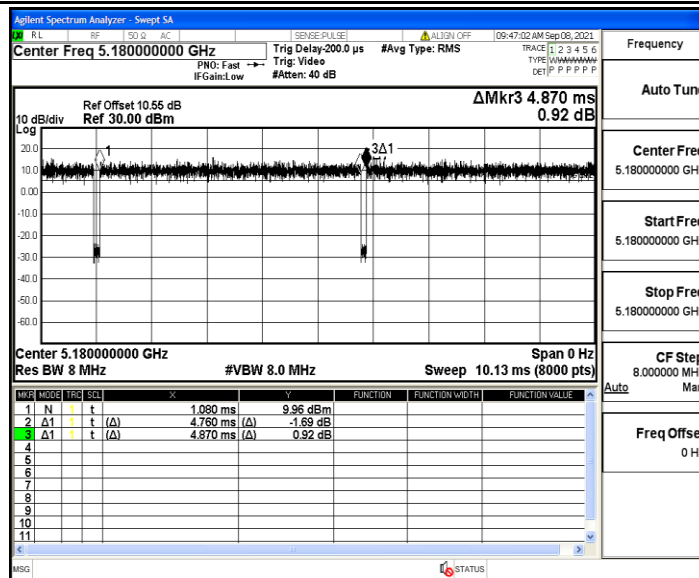
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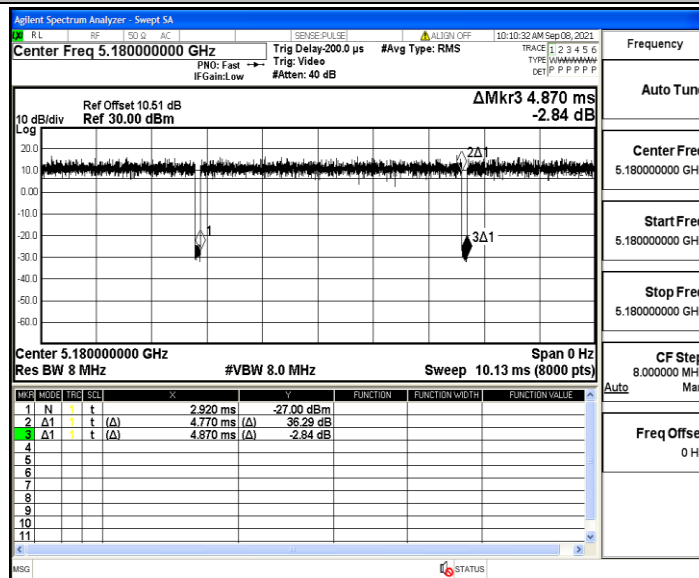
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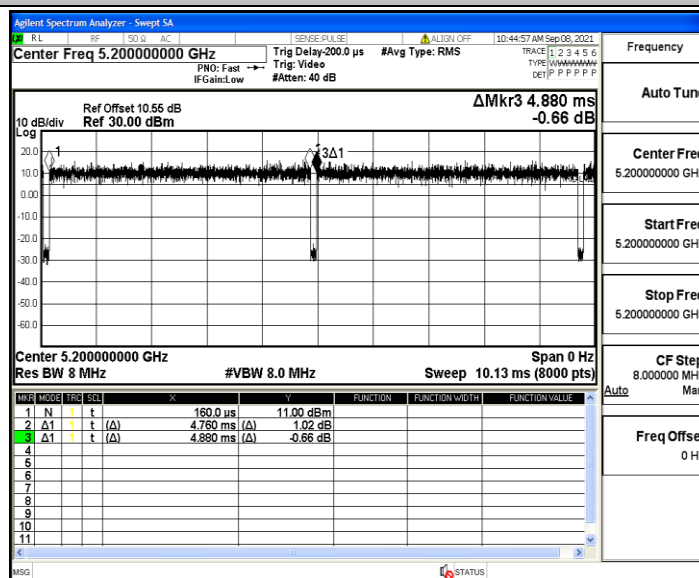
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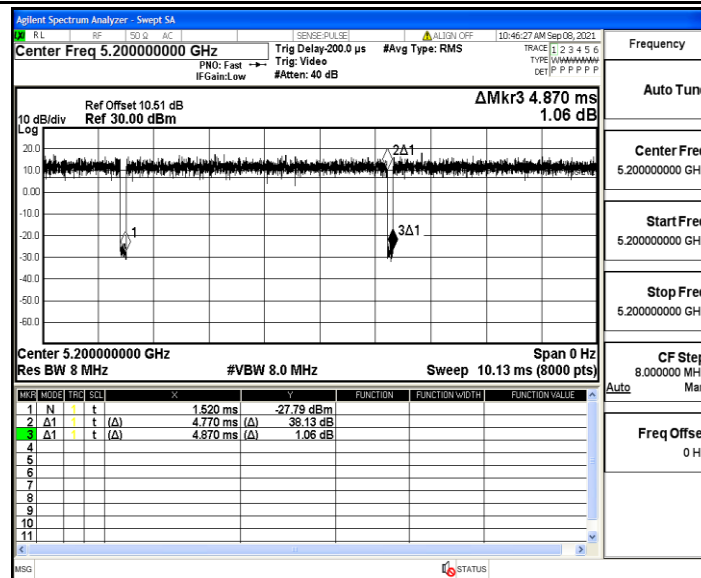
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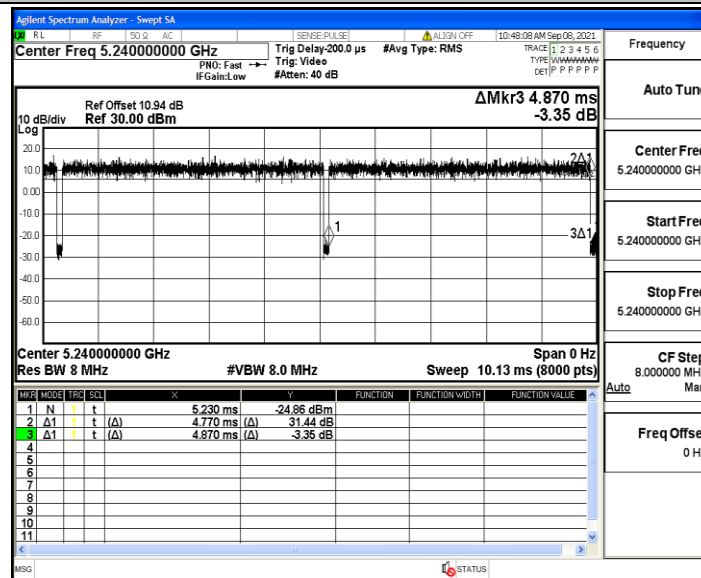
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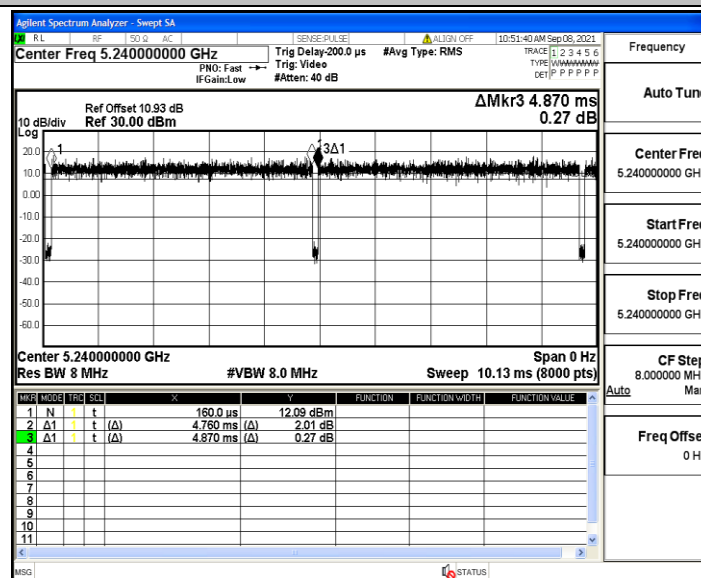
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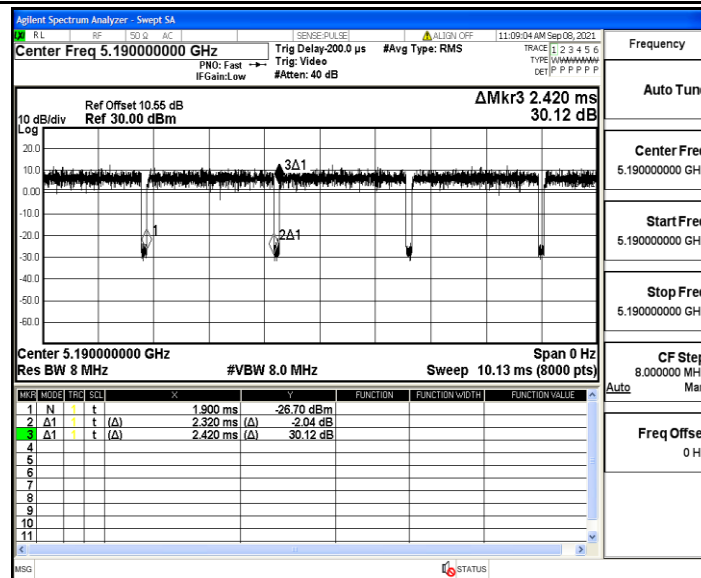
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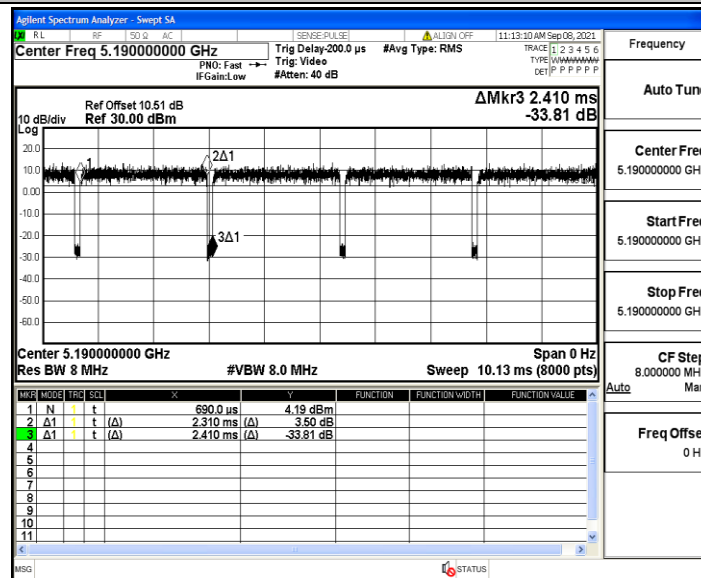
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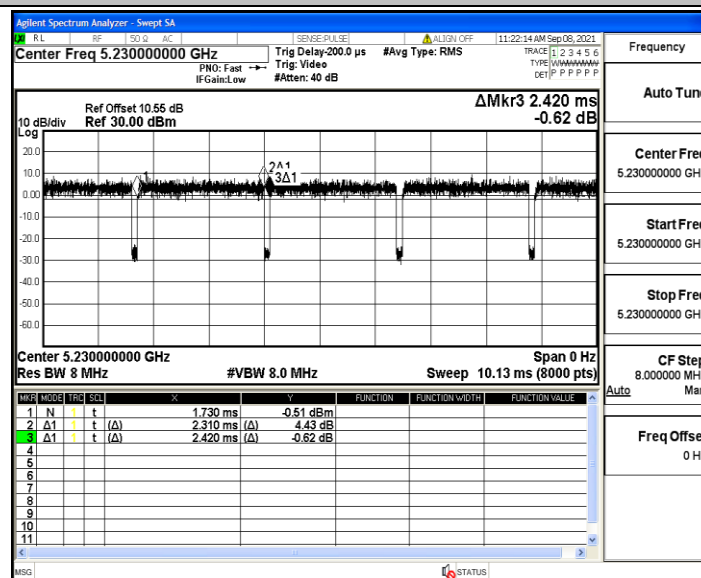
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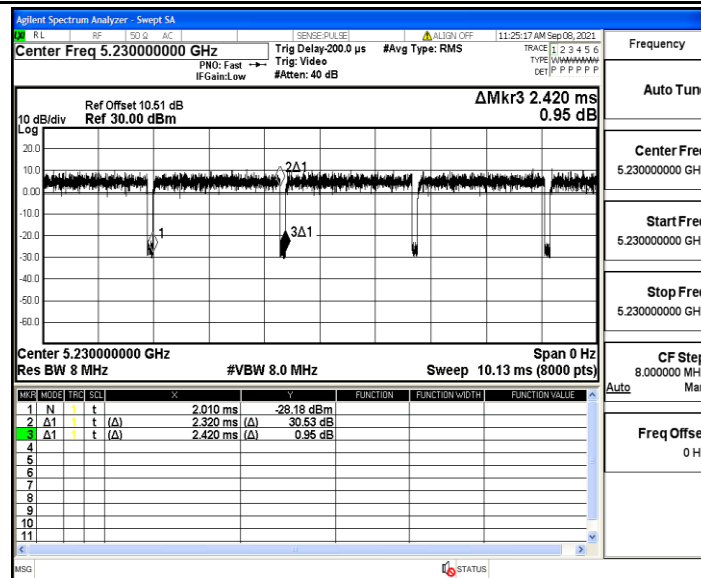
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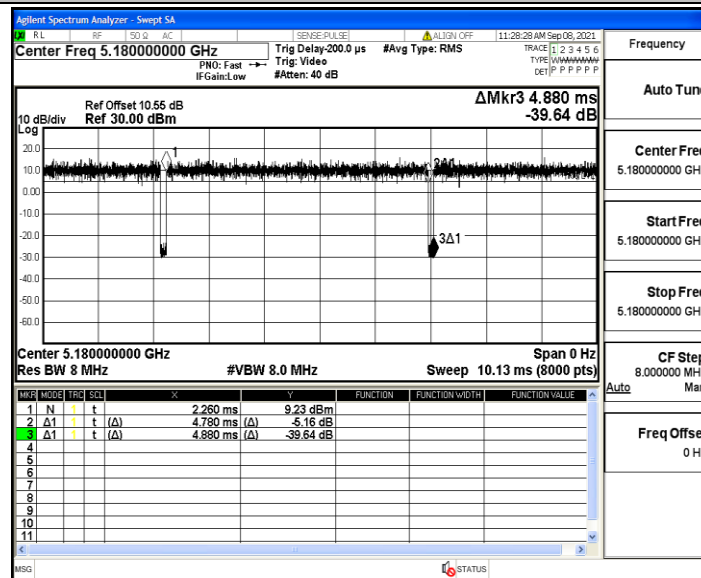
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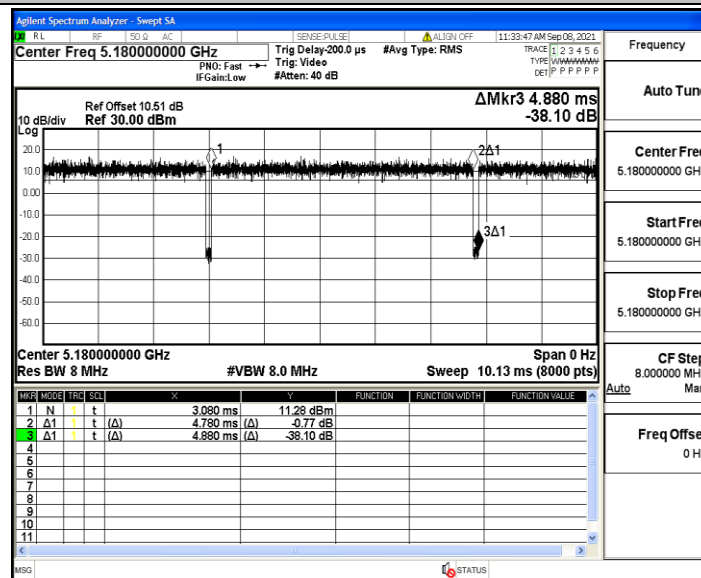
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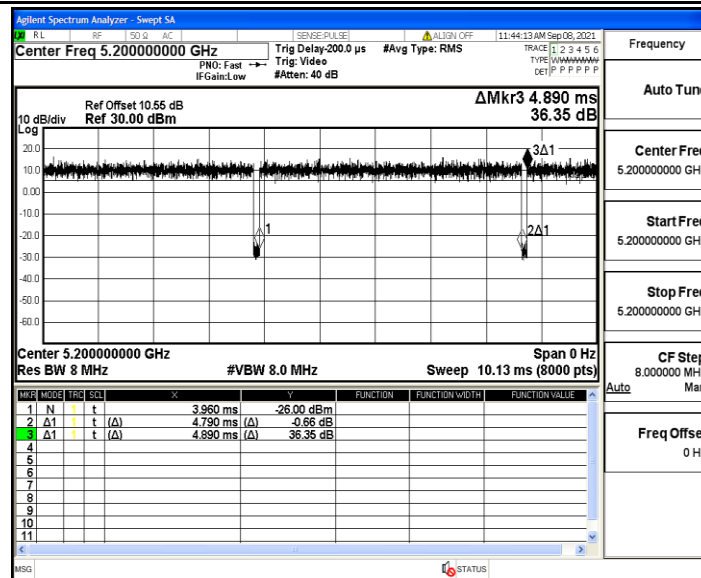
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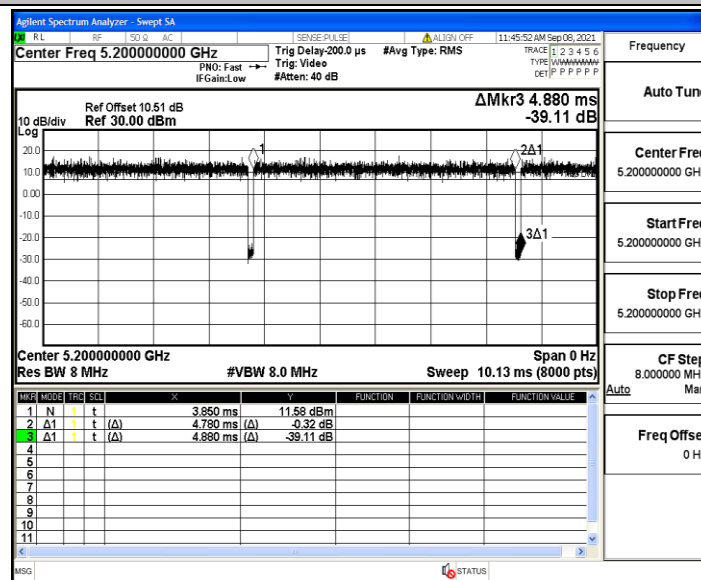
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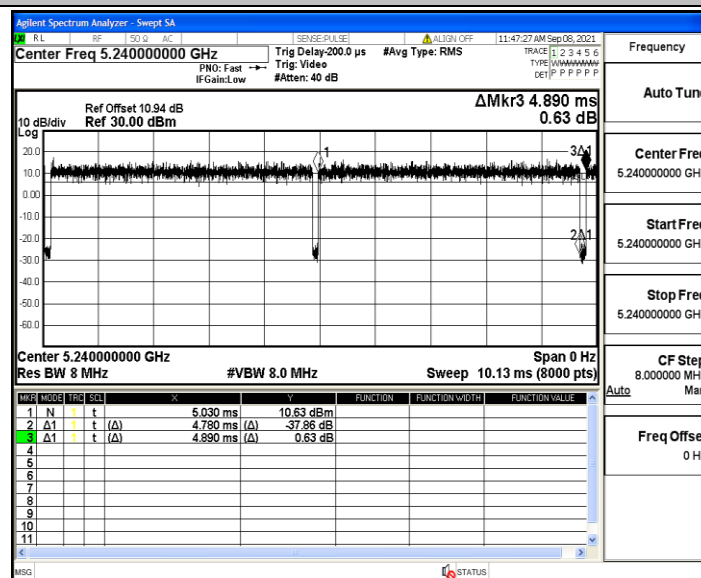
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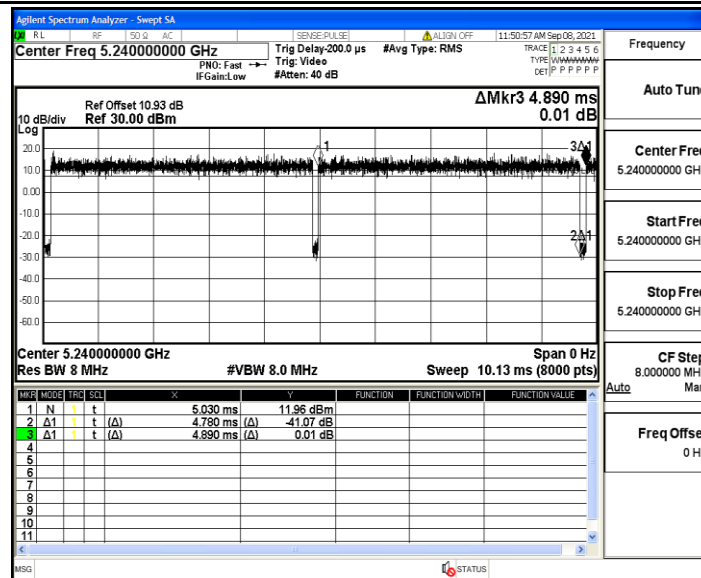
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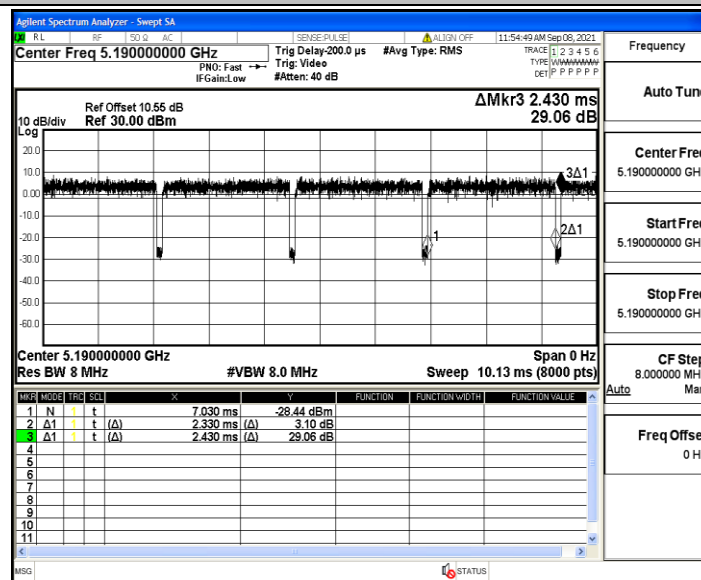
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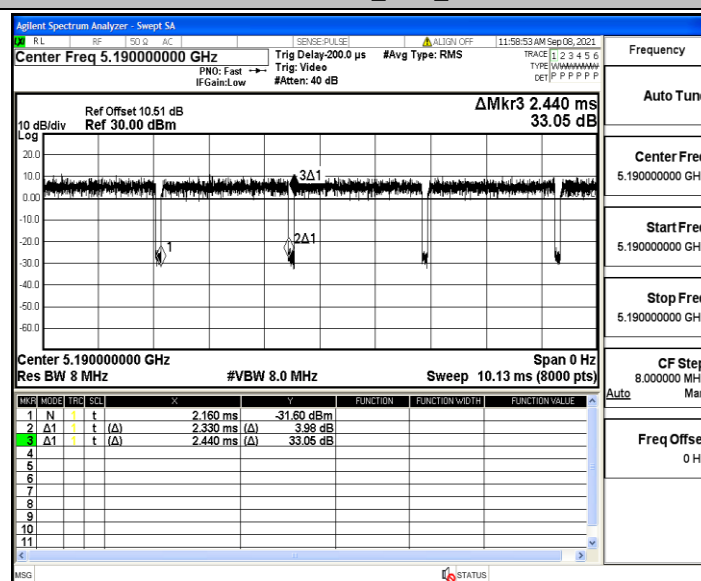
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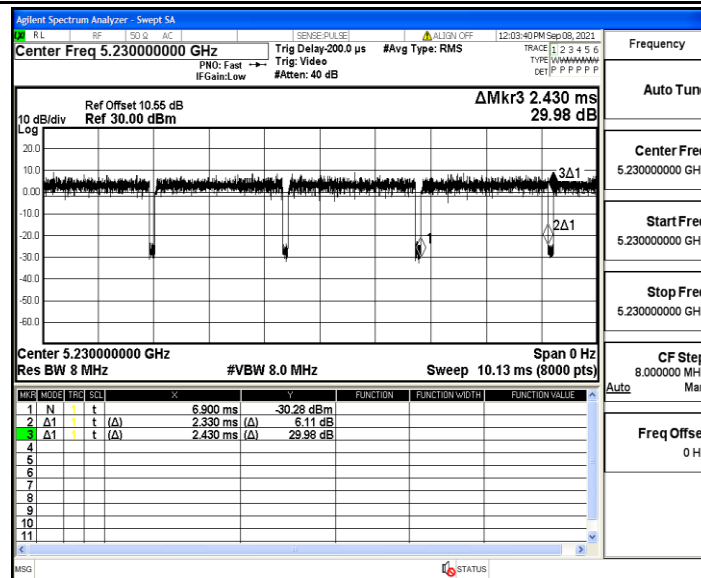
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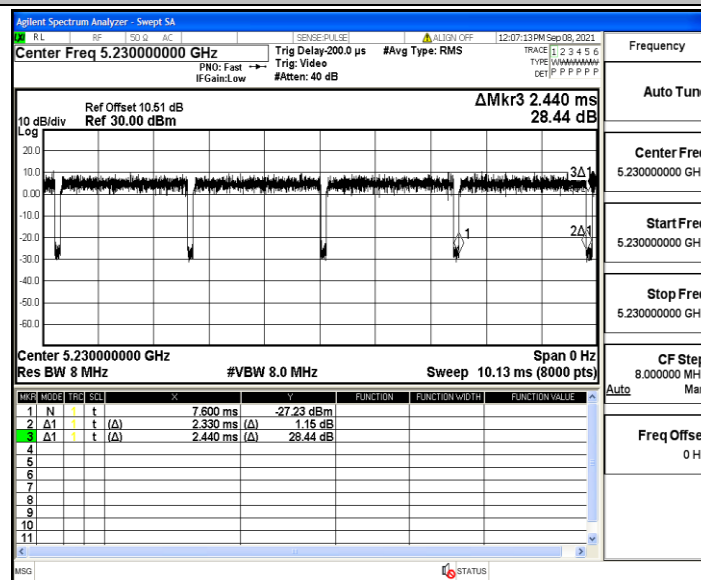
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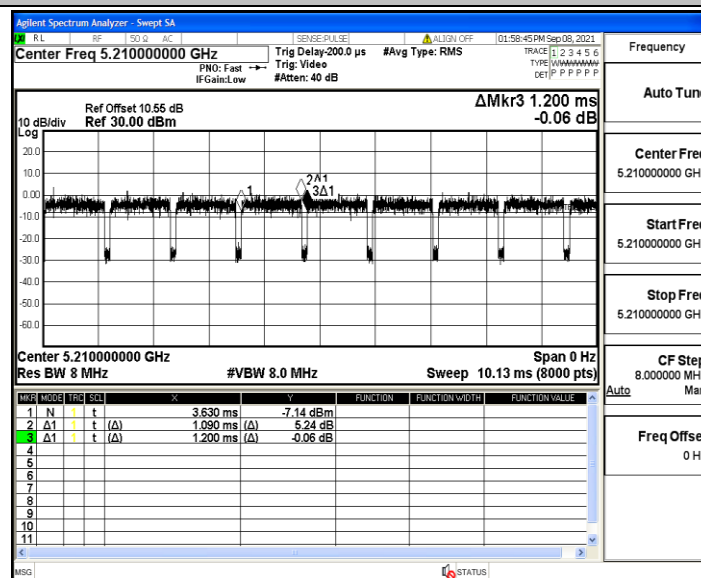
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11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

