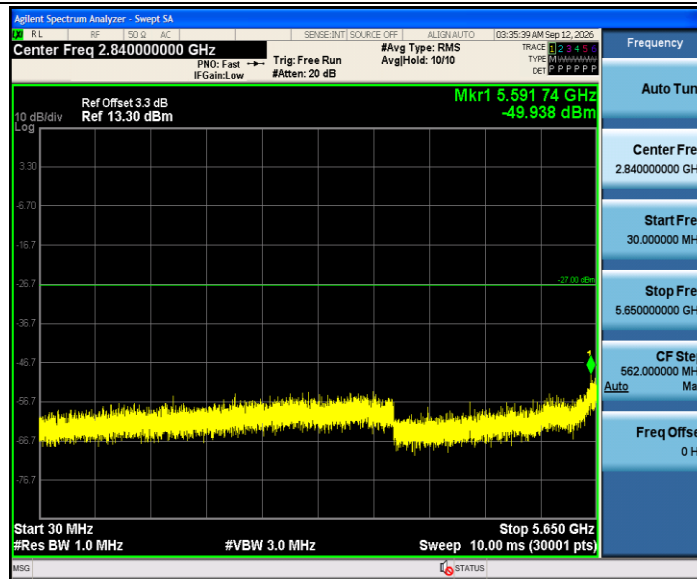
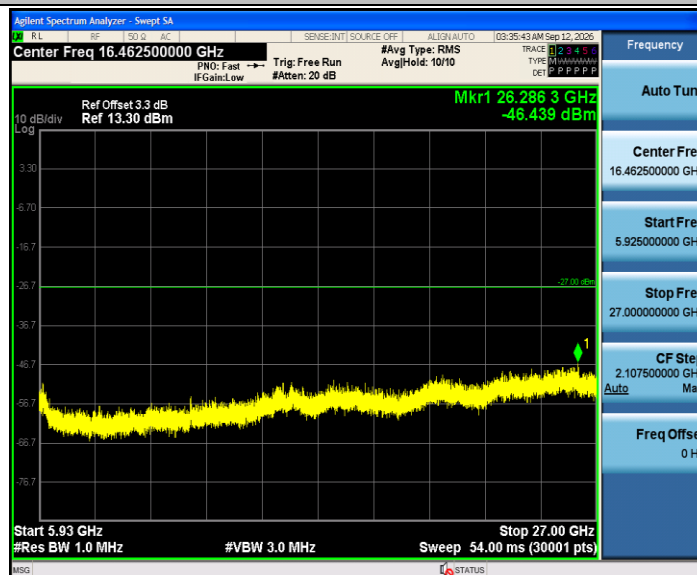
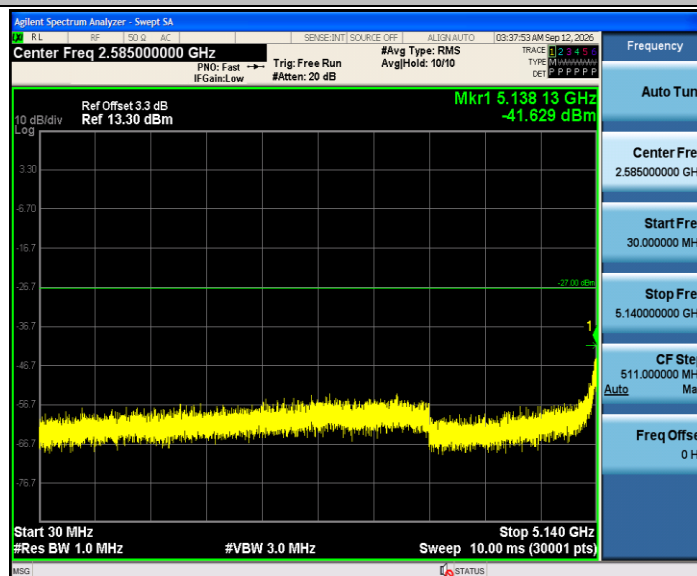




11AC20SISO_Ant1_5825_5925~40000



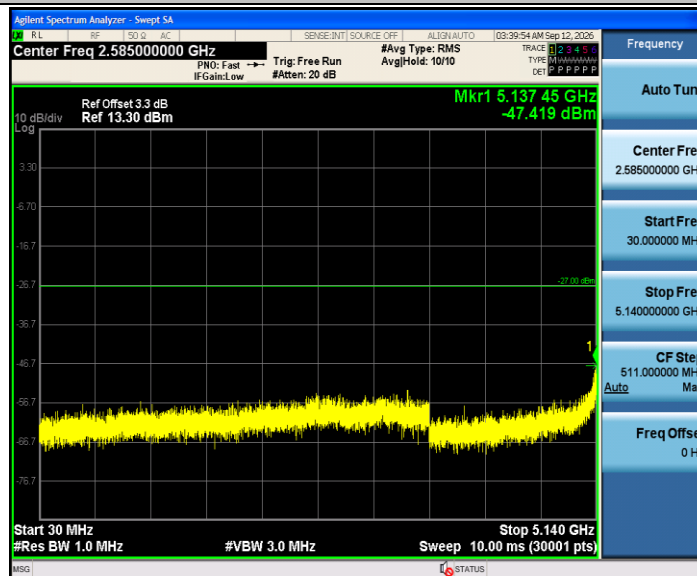
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11AC40SISO_Ant1_5190_5360~40000



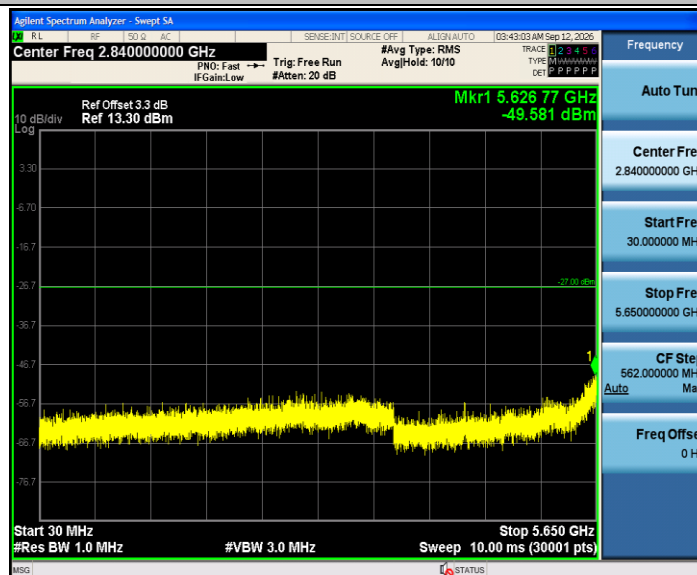
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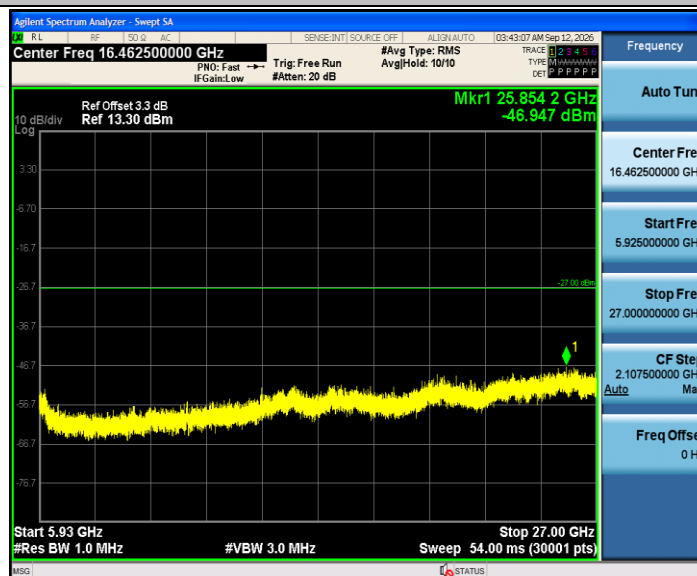
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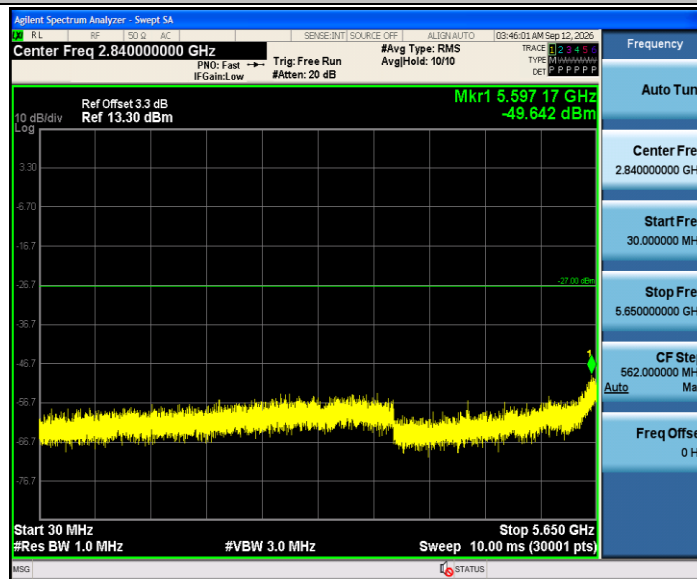
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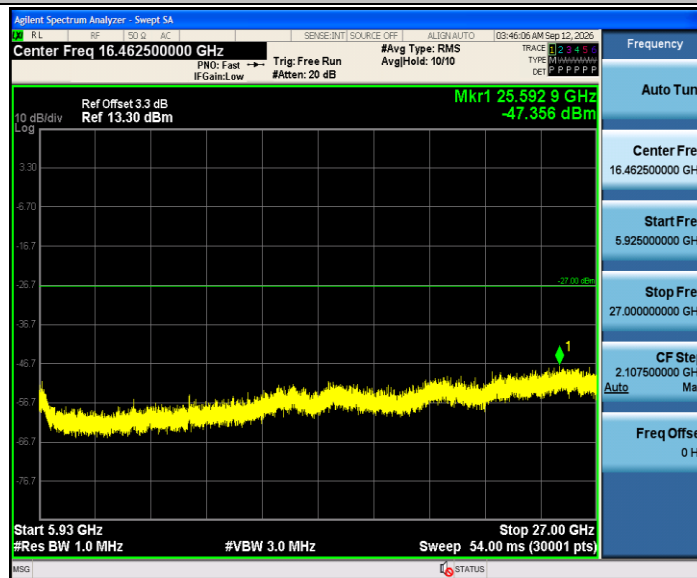
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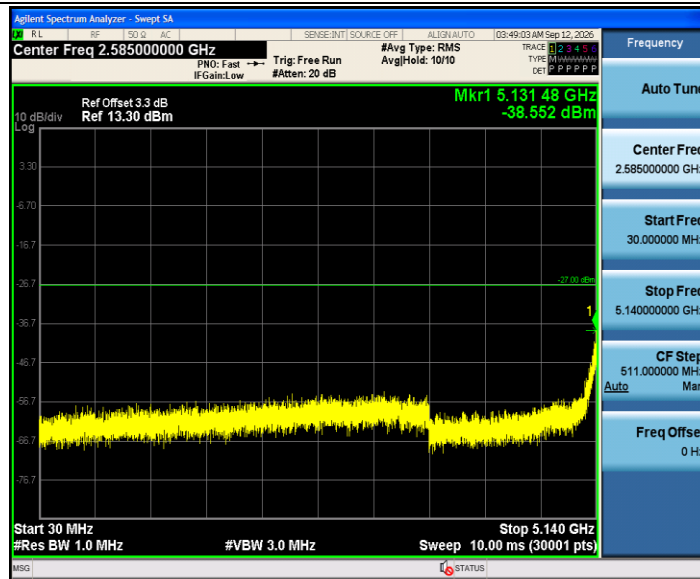
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11AC40SISO_Ant1_5795_5925~40000



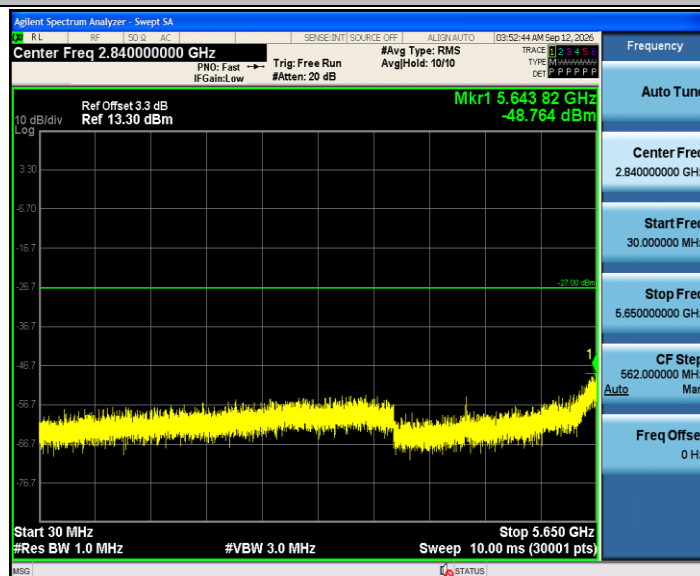
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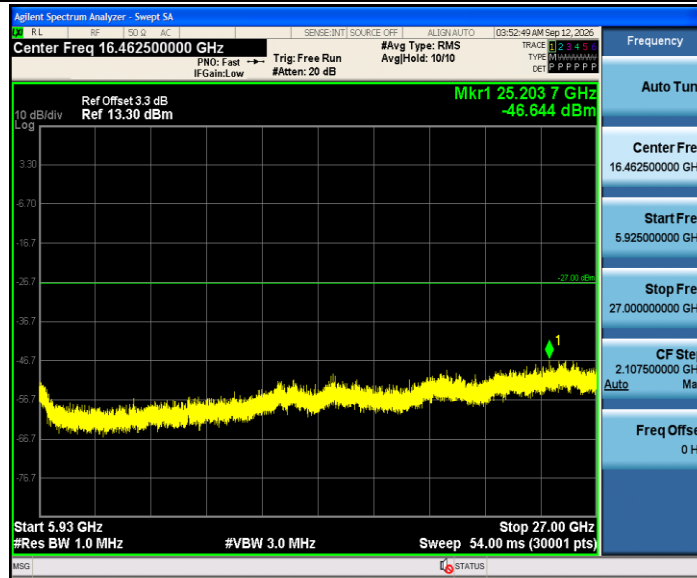
11AC80SISO_Ant1_5210_5360~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000



Appendix G: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detect or	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-61.85	2.00	1.03	-58.82	≤-41.20	PASS
				AV	5145.400	-56.54	2.00	1.03	-53.51	≤-41.20	PASS
				AV	5150.000	-56.11	2.00	1.03	-53.08	≤-41.20	PASS
				Peak	4500.000	-52.48	2.00	0.00	-50.48	≤-27.00	PASS
				Peak	5144.700	-46.32	2.00	0.00	-44.32	≤-27.00	PASS
				Peak	5150.000	-47.67	2.00	0.00	-45.67	≤-27.00	PASS
		High	5240	AV	5350.000	-59.72	2.00	1.03	-56.69	≤-41.20	PASS
				AV	5350.080	-59.71	2.00	1.03	-56.68	≤-41.20	PASS
				AV	5460.000	-60.84	2.00	1.03	-57.81	≤-41.20	PASS
				Peak	5350.000	-50.59	2.00	0.00	-48.59	≤-27.00	PASS
				Peak	5359.440	-48.44	2.00	0.00	-46.44	≤-27.00	PASS
				Peak	5460.000	-51.86	2.00	0.00	-49.86	≤-27.00	PASS
		Low	5745	Peak	5650.000	-50.533	2.00	0.00	-48.533	≤-27.00	PASS
				Peak	5700.000	-47.92	2.00	0.00	-45.92	≤10.00	PASS
				Peak	5720.000	-48.17	2.00	0.00	-46.17	≤15.60	PASS
				Peak	5725.000	-44.28	2.00	0.00	-42.28	≤27.00	PASS
		High	5825	Peak	5850.000	-47.39	2.00	0.00	-45.39	≤27.00	PASS
				Peak	5855.000	-51.14	2.00	0.00	-49.14	≤15.60	PASS
				Peak	5875.000	-51.7	2.00	0.00	-49.7	≤10.00	PASS
				Peak	5925.000	-52.15	2.00	0.00	-50.15	≤-27.00	PASS
11N20SI SO	Ant1	Low	5180	AV	4500.000	-62.1	2.00	0.05	-60.05	≤-41.20	PASS
				AV	5147.500	-56	2.00	0.05	-53.95	≤-41.20	PASS
				AV	5150.000	-56.24	2.00	0.05	-54.19	≤-41.20	PASS
				Peak	4500.000	-52.65	2.00	0.00	-50.65	≤-27.00	PASS
				Peak	5148.900	-46.49	2.00	0.00	-44.49	≤-27.00	PASS
				Peak	5150.000	-46.66	2.00	0.00	-44.66	≤-27.00	PASS
		High	5240	AV	5350.000	-59.64	2.00	0.04	-57.6	≤-41.20	PASS
				AV	5383.920	-59.3	2.00	0.04	-57.26	≤-41.20	PASS
				AV	5460.000	-60.34	2.00	0.04	-58.3	≤-41.20	PASS
				Peak	5350.000	-51.12	2.00	0.00	-49.12	≤-27.00	PASS
				Peak	5368.800	-49.28	2.00	0.00	-47.28	≤-27.00	PASS
				Peak	5460.000	-52.89	2.00	0.00	-50.89	≤-27.00	PASS
		Low	5745	Peak	5650.000	-50.222	2.00	0.00	-48.222	≤-27.00	PASS
				Peak	5700.000	-49.42	2.00	0.00	-47.42	≤10.00	PASS
				Peak	5720.000	-47.38	2.00	0.00	-45.38	≤15.60	PASS
				Peak	5725.000	-41.78	2.00	0.00	-39.78	≤27.00	PASS

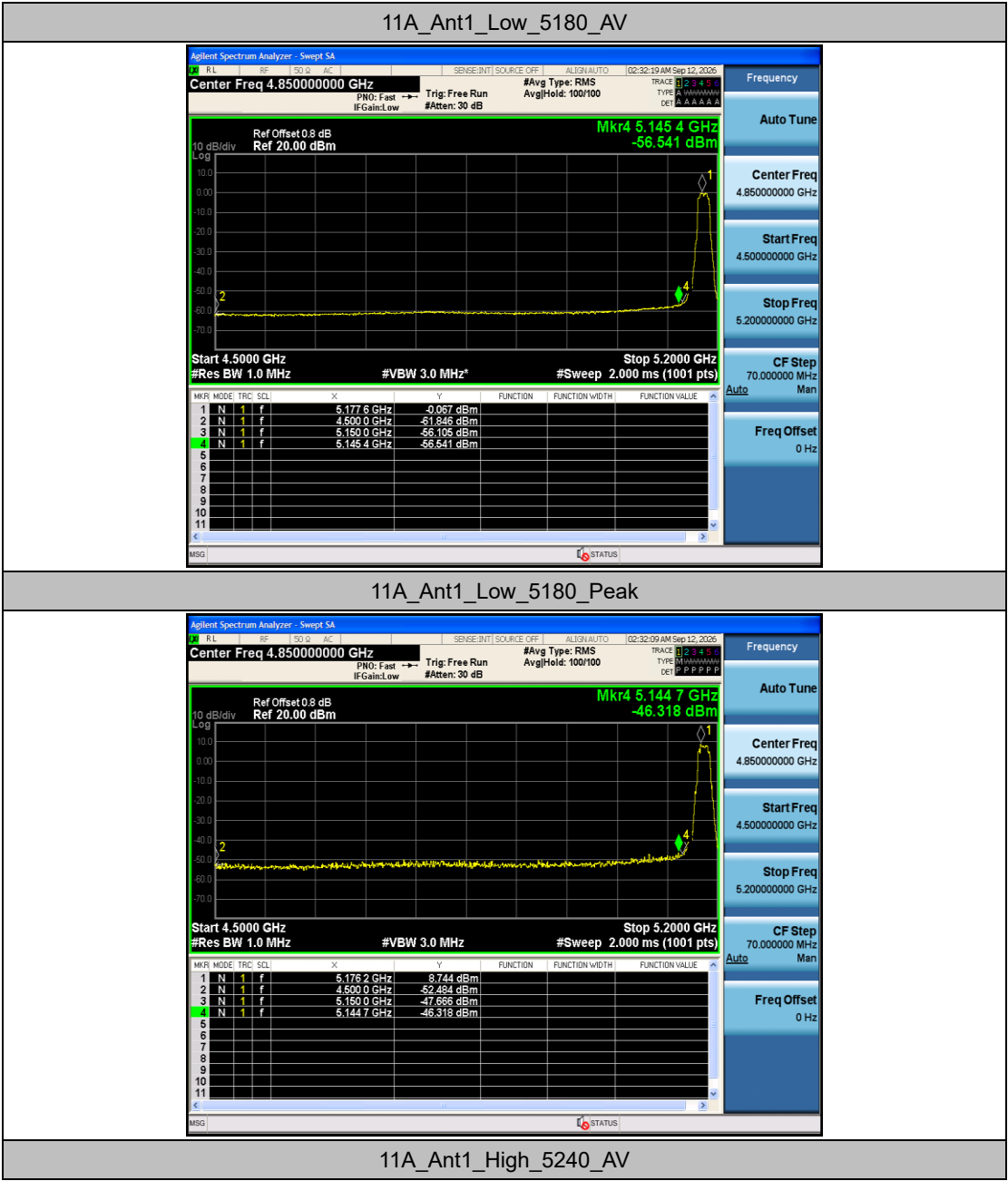
		High	5825	Peak	5850.000	-44.003	2.00	0.00	-42.003	≤27.00	PASS
				Peak	5855.000	-49.25	2.00	0.00	-47.25	≤15.60	PASS
				Peak	5875.000	-52.02	2.00	0.00	-50.02	≤10.00	PASS
				Peak	5925.000	-51.39	2.00	0.00	-49.39	≤-27.00	PASS
11N40SI SO	Ant1	Low	5190	AV	4500.000	-61.85	2.00	0.04	-59.81	≤-41.20	PASS
				AV	5149.600	-50.93	2.00	0.04	-48.89	≤-41.20	PASS
				AV	5150.000	-50.37	2.00	0.04	-48.33	≤-41.20	PASS
				Peak	4500.000	-53.9	2.00	0.00	-51.9	≤-27.00	PASS
				Peak	5149.600	-40.3	2.00	0.00	-38.3	≤-27.00	PASS
				Peak	5150.000	-41.89	2.00	0.00	-39.89	≤-27.00	PASS
		High	5230	AV	5350.000	-60.01	2.00	0.05	-57.96	≤-41.20	PASS
				AV	5366.400	-59.22	2.00	0.05	-57.17	≤-41.20	PASS
				AV	5460.000	-59.83	2.00	0.05	-57.78	≤-41.20	PASS
				Peak	5350.000	-52.56	2.00	0.00	-50.56	≤-27.00	PASS
				Peak	5357.300	-48.3	2.00	0.00	-46.3	≤-27.00	PASS
				Peak	5460.000	-51.6	2.00	0.00	-49.6	≤-27.00	PASS
		Low	5755	Peak	5650.000	-50.358	2.00	0.00	-48.358	≤-27.00	PASS
				Peak	5700.000	-46.68	2.00	0.00	-44.68	≤10.00	PASS
				Peak	5720.000	-41.96	2.00	0.00	-39.96	≤15.60	PASS
				Peak	5725.000	-41.47	2.00	0.00	-39.47	≤27.00	PASS
		High	5795	Peak	5850.000	-49.244	2.00	0.00	-47.244	≤27.00	PASS
				Peak	5855.000	-50.22	2.00	0.00	-48.22	≤15.60	PASS
				Peak	5875.000	-48	2.00	0.00	-46	≤10.00	PASS
				Peak	5925.000	-51.68	2.00	0.00	-49.68	≤-27.00	PASS
11AC20S ISO	Ant1	Low	5180	AV	4500.000	-61.74	2.00	0.05	-59.69	≤-41.20	PASS
				AV	5148.900	-55.74	2.00	0.05	-53.69	≤-41.20	PASS
				AV	5150.000	-55.69	2.00	0.05	-53.64	≤-41.20	PASS
				Peak	4500.000	-53.01	2.00	0.00	-51.01	≤-27.00	PASS
				Peak	5144.700	-46.57	2.00	0.00	-44.57	≤-27.00	PASS
				Peak	5150.000	-47.13	2.00	0.00	-45.13	≤-27.00	PASS
		High	5240	AV	5350.000	-59.9	2.00	0.05	-57.85	≤-41.20	PASS
				AV	5355.600	-59.09	2.00	0.05	-57.04	≤-41.20	PASS
				AV	5460.000	-60.36	2.00	0.05	-58.31	≤-41.20	PASS
				Peak	5350.000	-51.05	2.00	0.00	-49.05	≤-27.00	PASS
				Peak	5364.720	-49.39	2.00	0.00	-47.39	≤-27.00	PASS
				Peak	5460.000	-52.72	2.00	0.00	-50.72	≤-27.00	PASS
		Low	5745	Peak	5650.000	-49.507	2.00	0.00	-47.507	≤-27.00	PASS
				Peak	5700.000	-48.07	2.00	0.00	-46.07	≤10.00	PASS
				Peak	5720.000	-46.92	2.00	0.00	-44.92	≤15.60	PASS
				Peak	5725.000	-40.39	2.00	0.00	-38.39	≤27.00	PASS
		High	5825	Peak	5850.000	-42.169	2.00	0.00	-40.169	≤27.00	PASS
				Peak	5855.000	-49.92	2.00	0.00	-47.92	≤15.60	PASS
				Peak	5875.000	-51.97	2.00	0.00	-49.97	≤10.00	PASS

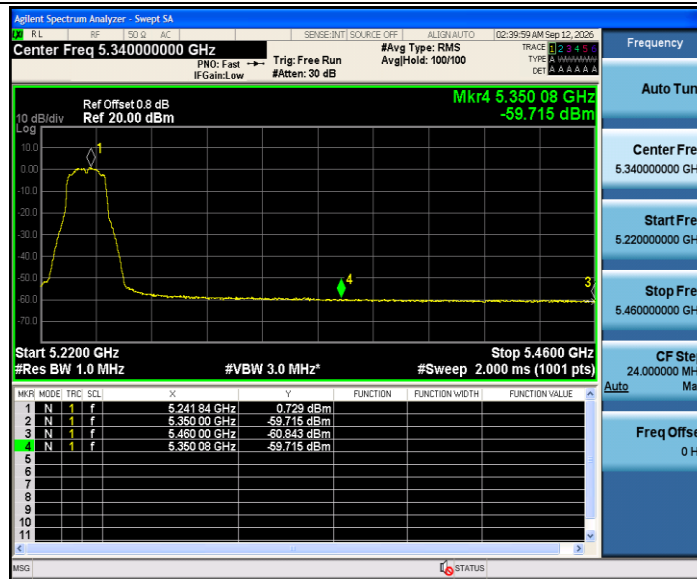
				Peak	5925.000	-52.67	2.00	0.00	-50.67	≤-27.00	PASS
11AC40S ISO	Ant1	Low	5190	AV	4500.000	-61.8	2.00	0.05	-59.75	≤-41.20	PASS
				AV	5149.600	-48.31	2.00	0.05	-46.26	≤-41.20	PASS
				AV	5150.000	-48.48	2.00	0.05	-46.43	≤-41.20	PASS
				Peak	4500.000	-52.31	2.00	0.00	-50.31	≤-27.00	PASS
				Peak	5149.600	-37.82	2.00	0.00	-35.82	≤-27.00	PASS
				Peak	5150.000	-39.15	2.00	0.00	-37.15	≤-27.00	PASS
		High	5230	AV	5350.000	-59.54	2.00	0.04	-57.5	≤-41.20	PASS
				AV	5352.100	-59.16	2.00	0.04	-57.12	≤-41.20	PASS
				AV	5460.000	-60.7	2.00	0.04	-58.66	≤-41.20	PASS
				Peak	5350.000	-51.26	2.00	0.00	-49.26	≤-27.00	PASS
				Peak	5399.420	-48.17	2.00	0.00	-46.17	≤-27.00	PASS
				Peak	5460.000	-50.43	2.00	0.00	-48.43	≤-27.00	PASS
		Low	5755	Peak	5650.000	-50.592	2.00	0.00	-48.592	≤-27.00	PASS
				Peak	5700.000	-46.29	2.00	0.00	-44.29	≤10.00	PASS
				Peak	5720.000	-40.44	2.00	0.00	-38.44	≤15.60	PASS
				Peak	5725.000	-40.59	2.00	0.00	-38.59	≤27.00	PASS
		High	5795	Peak	5850.000	-46.52	2.00	0.00	-44.52	≤27.00	PASS
				Peak	5855.000	-48.07	2.00	0.00	-46.07	≤15.60	PASS
				Peak	5875.000	-49.8	2.00	0.00	-47.8	≤10.00	PASS
				Peak	5925.000	-51.98	2.00	0.00	-49.98	≤-27.00	PASS
11AC80S ISO	Ant1	Low	5210	AV	4500.000	-61.6	2.00	0.04	-59.56	≤-41.20	PASS
				AV	5148.750	-48.96	2.00	0.04	-46.92	≤-41.20	PASS
				AV	5150.000	-48.9	2.00	0.04	-46.86	≤-41.20	PASS
				Peak	4500.000	-53.82	2.00	0.00	-51.82	≤-27.00	PASS
				Peak	5148.000	-38.42	2.00	0.00	-36.42	≤-27.00	PASS
				Peak	5150.000	-40.53	2.00	0.00	-38.53	≤-27.00	PASS
		High	5210	AV	5350.000	-59.32	2.00	0.04	-57.28	≤-41.20	PASS
				AV	5353.040	-58.45	2.00	0.04	-56.41	≤-41.20	PASS
				AV	5460.000	-60.37	2.00	0.04	-58.33	≤-41.20	PASS
				Peak	5350.000	-50.5	2.00	0.00	-48.5	≤-27.00	PASS
				Peak	5361.440	-48.7	2.00	0.00	-46.7	≤-27.00	PASS
				Peak	5460.000	-50.39	2.00	0.00	-48.39	≤-27.00	PASS
		Low	5775	Peak	5650.000	-50.202	2.00	0.00	-48.202	≤-27.00	PASS
				Peak	5700.000	-46.37	2.00	0.00	-44.37	≤10.00	PASS
				Peak	5720.000	-42	2.00	0.00	-40	≤15.60	PASS
				Peak	5725.000	-33.57	2.00	0.00	-31.57	≤27.00	PASS
		High	5775	Peak	5850.000	-45.333	2.00	0.00	-43.333	≤27.00	PASS
				Peak	5855.000	-48.54	2.00	0.00	-46.54	≤15.60	PASS
				Peak	5875.000	-51.35	2.00	0.00	-49.35	≤10.00	PASS
				Peak	5925.000	-52.08	2.00	0.00	-50.08	≤-27.00	PASS

Note:

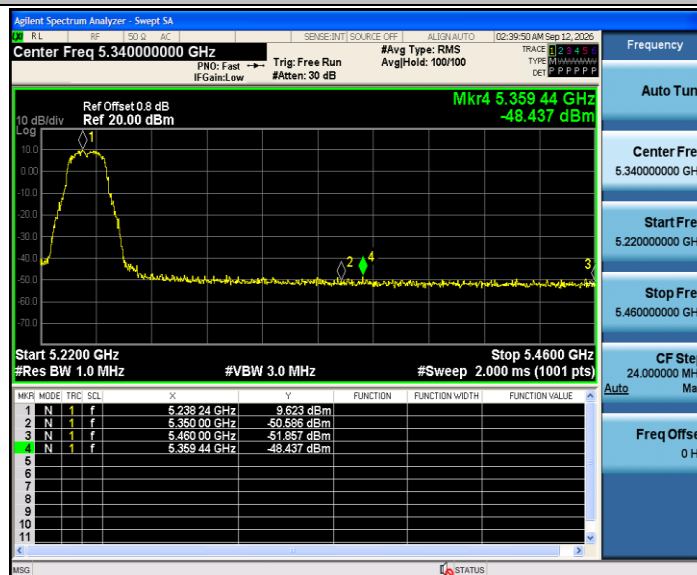
1. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

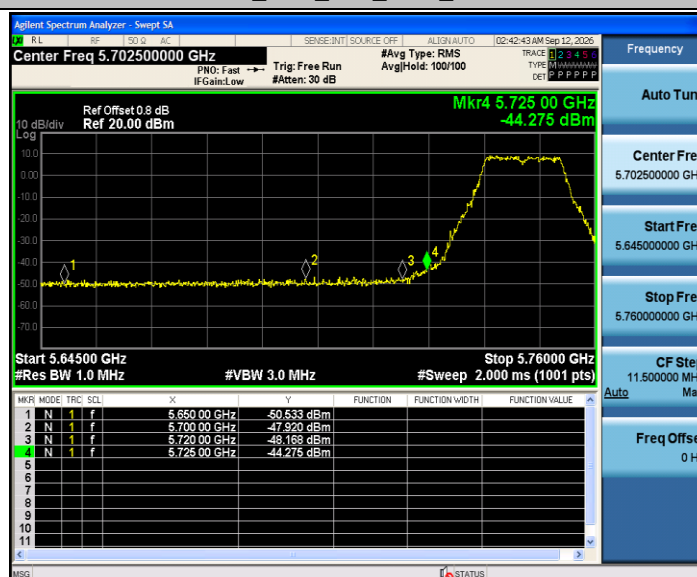




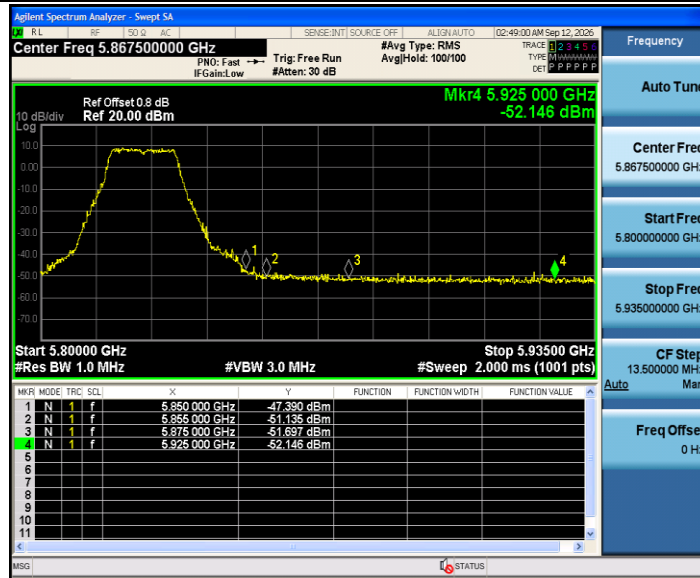
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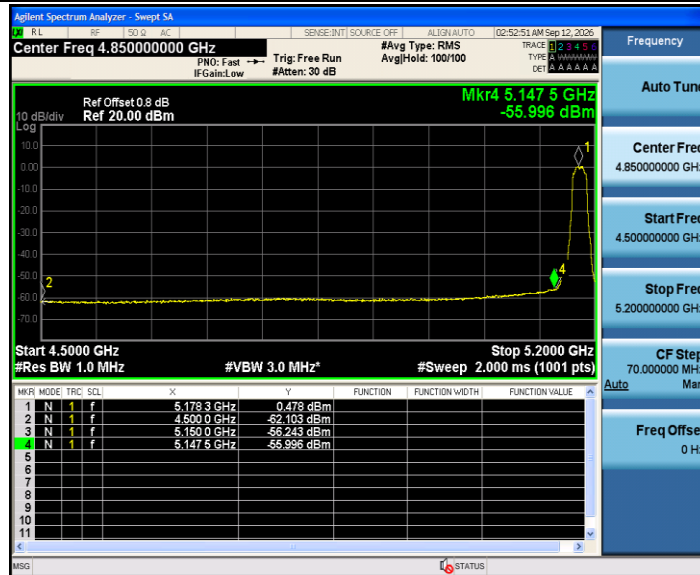
11A_Ant1_Low_5745_Peak



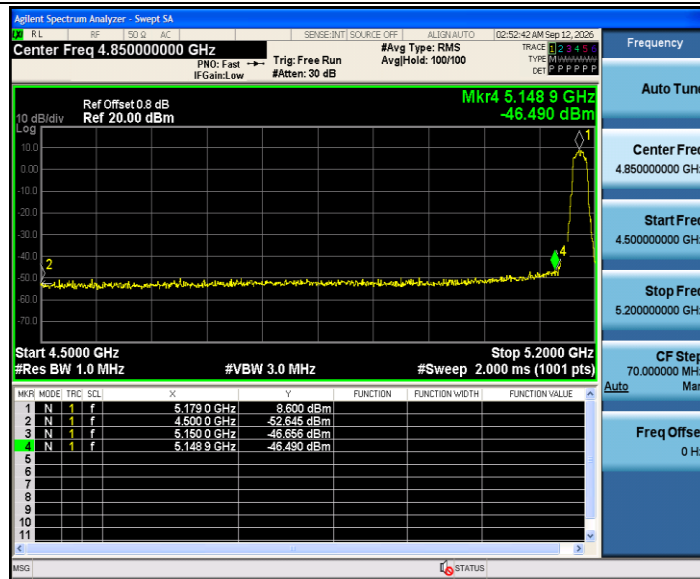
11A_Ant1_High_5825_Peak



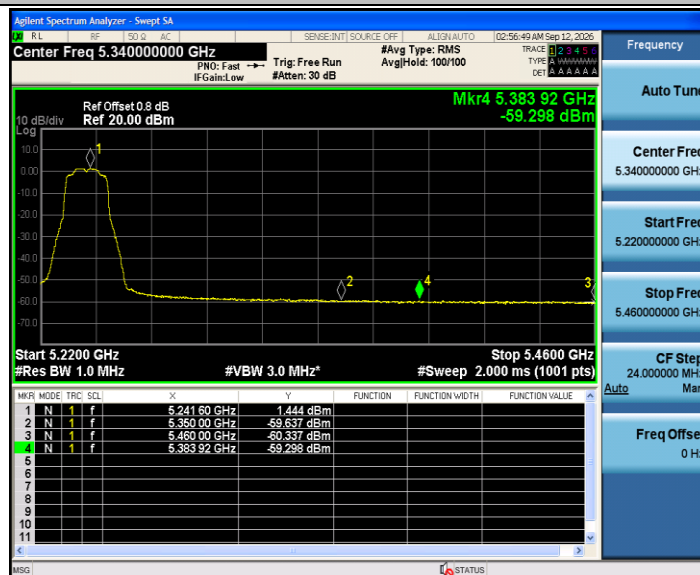
11N20SISO_Ant1_Low_5180_AV



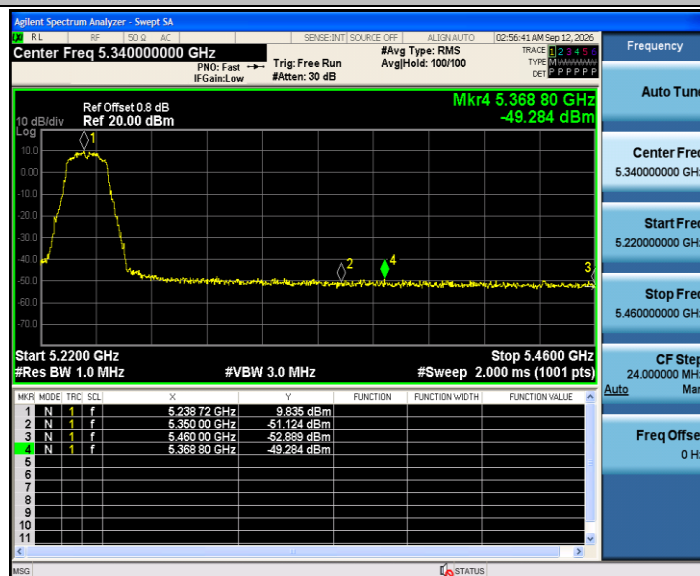
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11N20SISO_Ant1_High_5240_AV



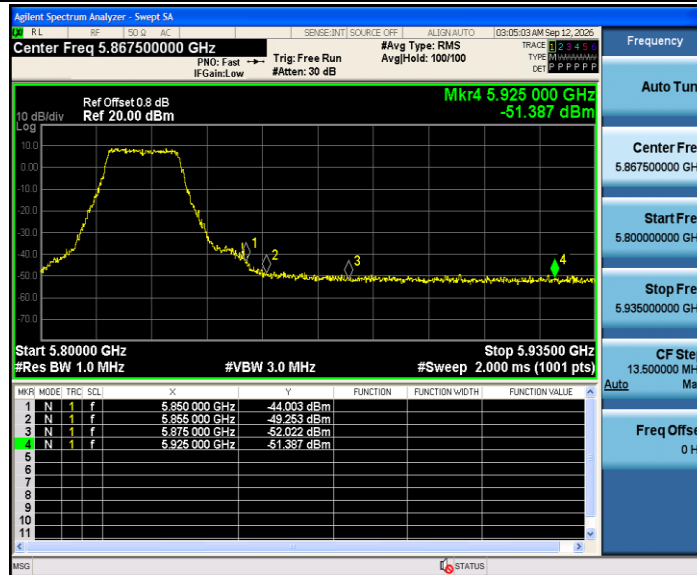
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11N20SISO_Ant1_Low_5745_Peak



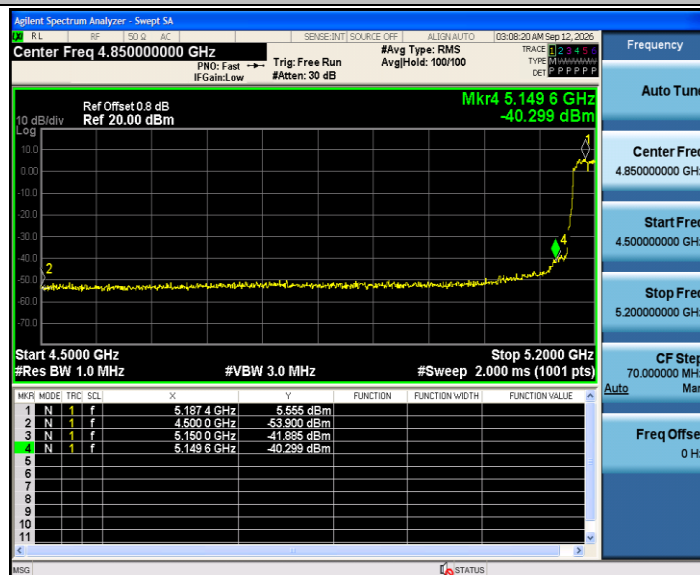
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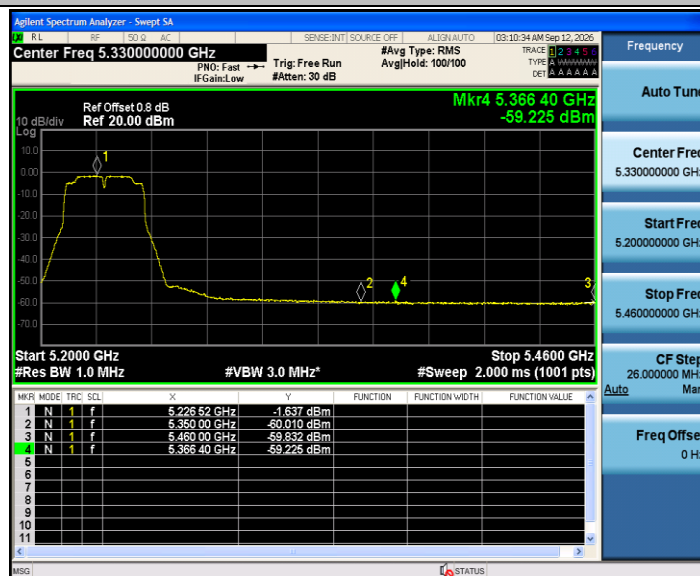
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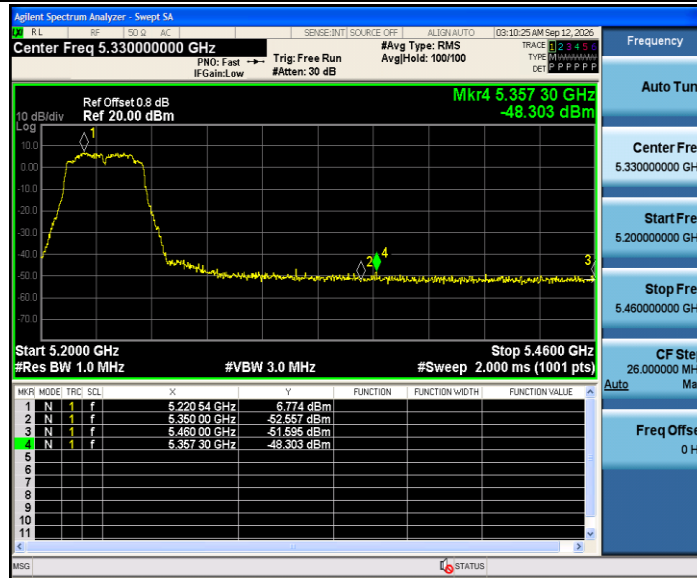
11N40SISO_Ant1_Low_5190_Peak



11N40SISO_Ant1_High_5230_AV



11N40SISO_Ant1_High_5230_Peak



11N40SISO_Ant1_Low_5755_Peak



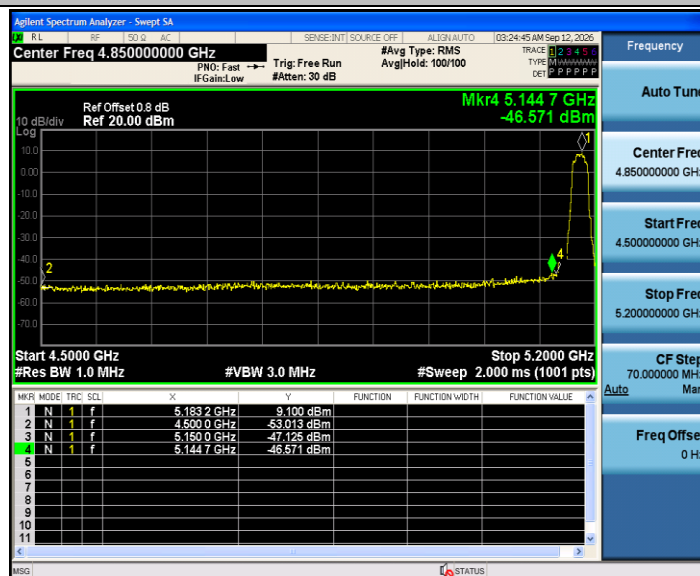
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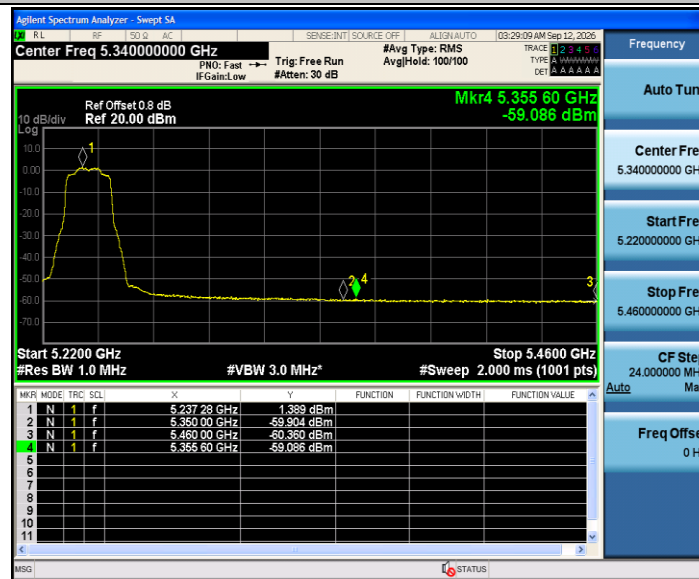
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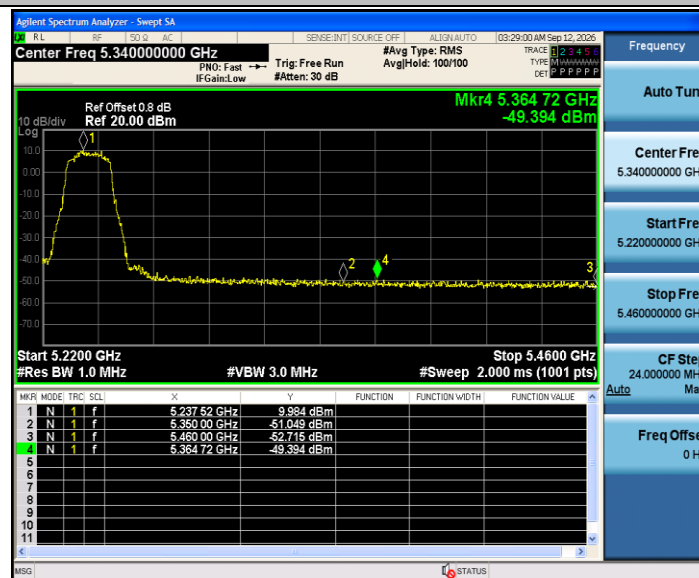
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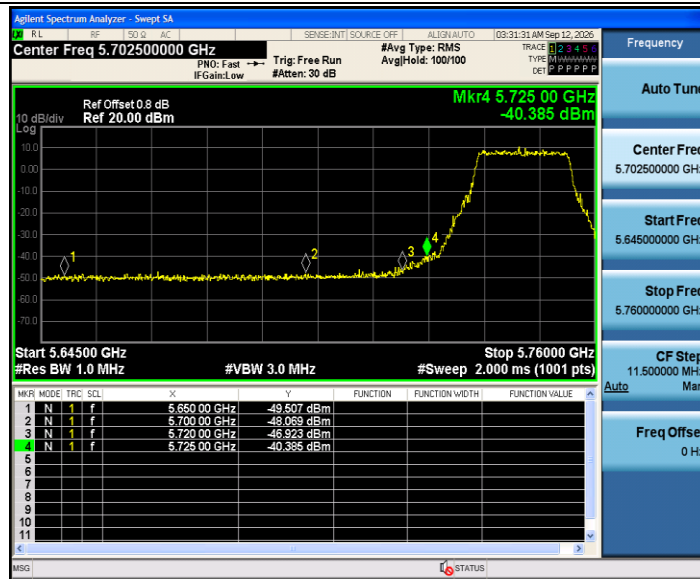
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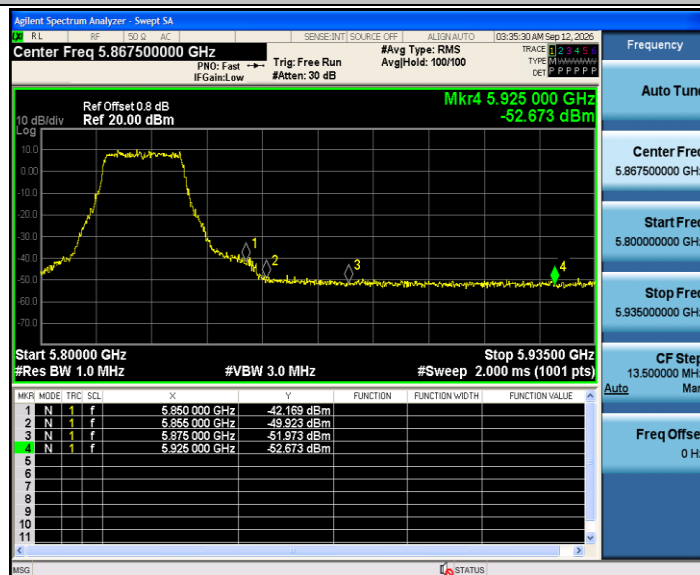
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11AC20SISO_Ant1_Low_5745_Peak



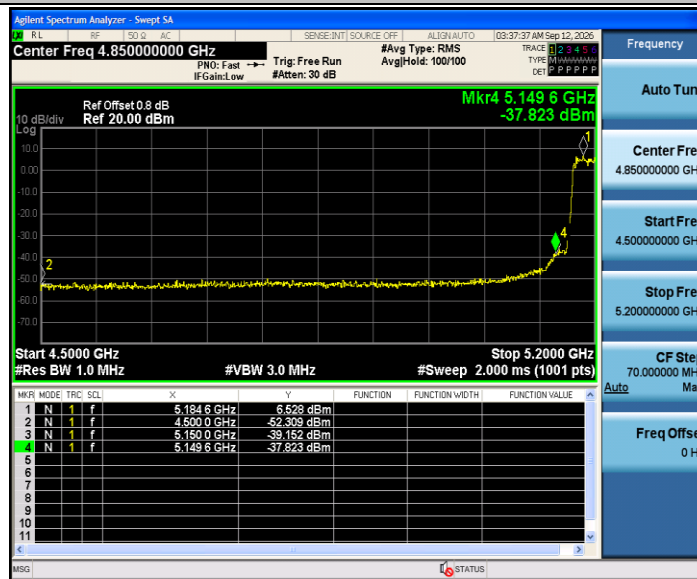
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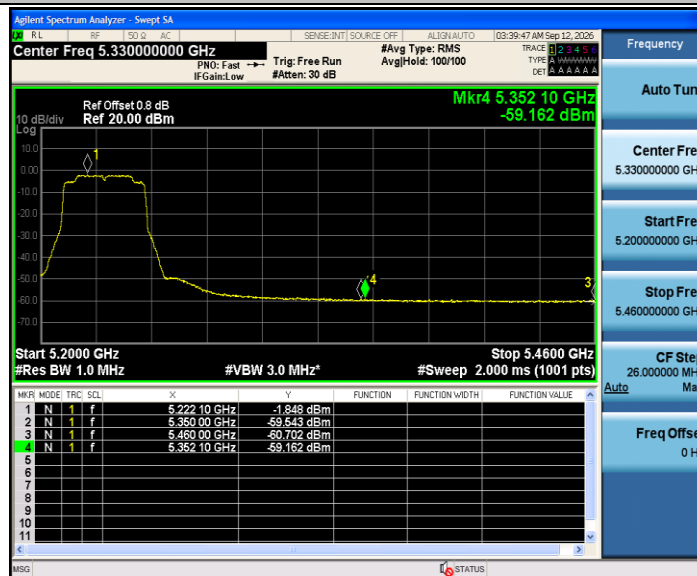
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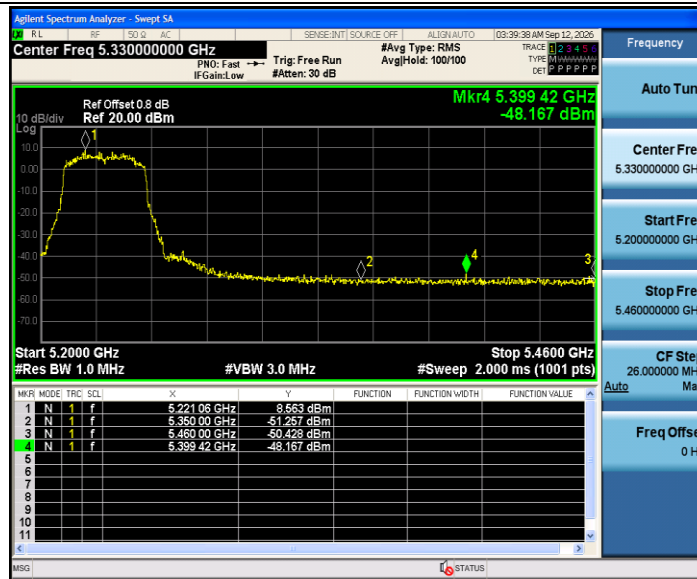
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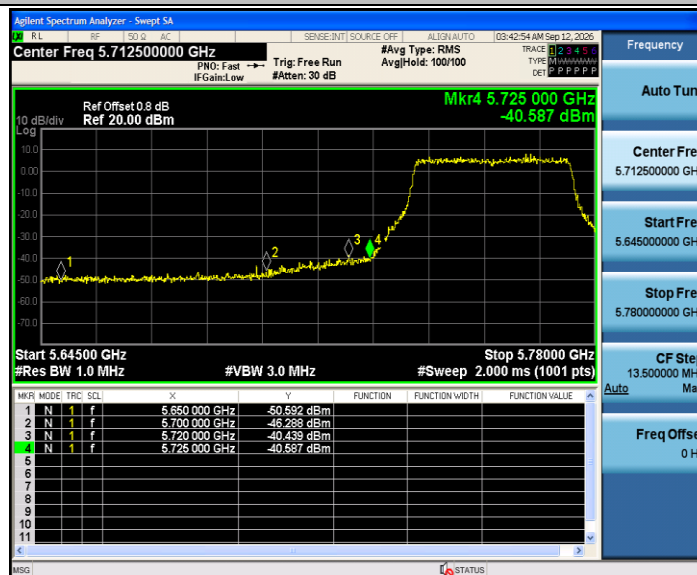
11AC40SISO_Ant1_High_5230_AV



11AC40SISO_Ant1_High_5230_Peak



11AC40SISO_Ant1_Low_5755_Peak



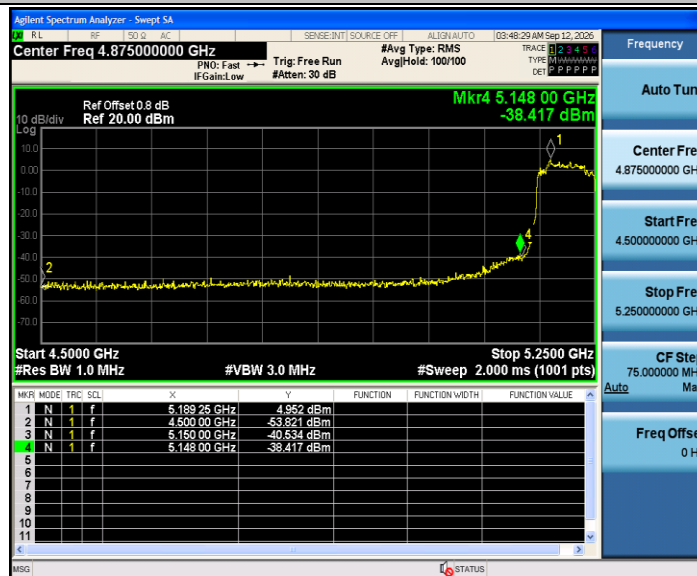
11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5210_AV



11AC80SISO_Ant1_Low_5210_Peak



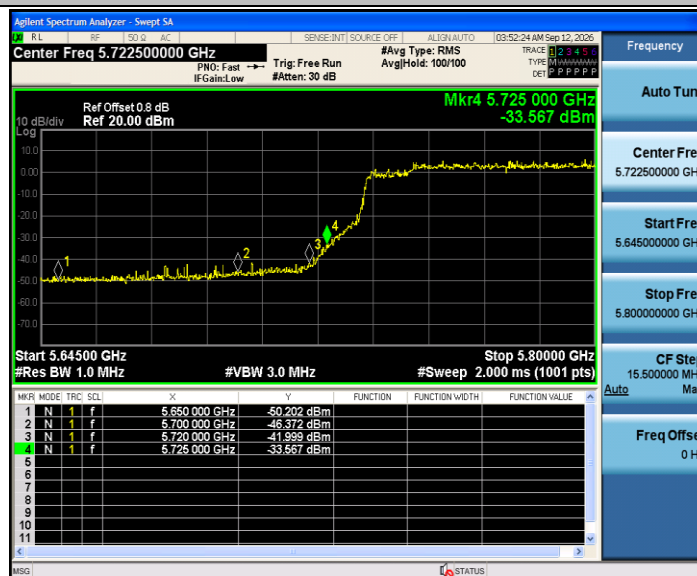
11AC80SISO_Ant1_High_5210_AV



11AC80SISO_Ant1_High_5210_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak



Appendix RF Test Data for 5GWIFI ANT2

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	24.360	5167.680	5192.040	---	---
		5220	23.960	5208.280	5232.240	---	---
		5240	23.880	5228.360	5252.240	---	---
		5745	25.040	5732.240	5757.280	---	---
		5785	24.480	5772.760	5797.240	---	---
		5825	24.320	5812.440	5836.760	---	---
11N20SISO	Ant2	5180	23.680	5168.000	5191.680	---	---
		5220	23.400	5208.160	5231.560	---	---
		5240	24.240	5227.880	5252.120	---	---
		5745	24.840	5732.520	5757.360	---	---
		5785	26.080	5771.560	5797.640	---	---
		5825	24.440	5812.640	5837.080	---	---
11N40SISO	Ant2	5190	42.640	5168.880	5211.520	---	---
		5230	43.200	5208.800	5252.000	---	---
		5755	44.960	5732.680	5777.640	---	---
		5795	45.120	5772.600	5817.720	---	---
11AC20SISO	Ant2	5180	22.720	5168.520	5191.240	---	---
		5220	22.200	5208.920	5231.120	---	---
		5240	22.520	5228.920	5251.440	---	---
		5745	23.480	5733.280	5756.760	---	---
		5785	24.400	5772.480	5796.880	---	---
		5825	24.520	5812.720	5837.240	---	---
11AC40SISO	Ant2	5190	43.520	5168.400	5211.920	---	---
		5230	42.960	5208.400	5251.360	---	---
		5755	44.800	5732.280	5777.080	---	---
		5795	44.800	5772.360	5817.160	---	---
11AC80SISO	Ant2	5210	85.760	5167.120	5252.880	---	---
		5775	86.880	5730.520	5817.400	---	---

11A_Ant2_5180

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.180000000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

ΔMkr3 24.36 MHz
-1.033 dB

10 dB/div
Log

Center 5.18000 GHz
#Res BW 620 kHz
#VBW 2.0 MHz
Sweep 1.000 ms (1001 pts)

Span 40.00 MHz

MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.167 53 GHz	-21.891 dBm			
2	N	1	f	5.183 34 GHz	5.293 dBm			
3	Δ1	1	f (Δ)	24.36 MHz (Δ)	-1.033 dB			

Frequency

Auto Tune

Center Freq 5.180000000 GHz

Start Freq 5.160000000 GHz

Stop Freq 5.200000000 GHz

CF Step 4.000000 MHz

Freq Offset 0 Hz

11A_Ant2_5220

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.220000000 GHz

Ref Offset 0.7 dB
Ref 20.00 dBm

ΔMkr3 23.96 MHz
-2.639 dB

10 dB/div
Log

Center 5.22000 GHz
#Res BW 620 kHz
#VBW 2.0 MHz
Sweep 1.000 ms (1001 pts)

Span 40.00 MHz

MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.208 28 GHz	-20.577 dBm			
2	N	1	f	5.222 32 GHz	5.659 dBm			
3	Δ1	1	f (Δ)	23.96 MHz (Δ)	-2.639 dB			

Frequency

Auto Tune

Center Freq 5.220000000 GHz

Start Freq 5.200000000 GHz

Stop Freq 5.240000000 GHz

CF Step 4.000000 MHz

Freq Offset 0 Hz

11A_Ant2_5240



11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



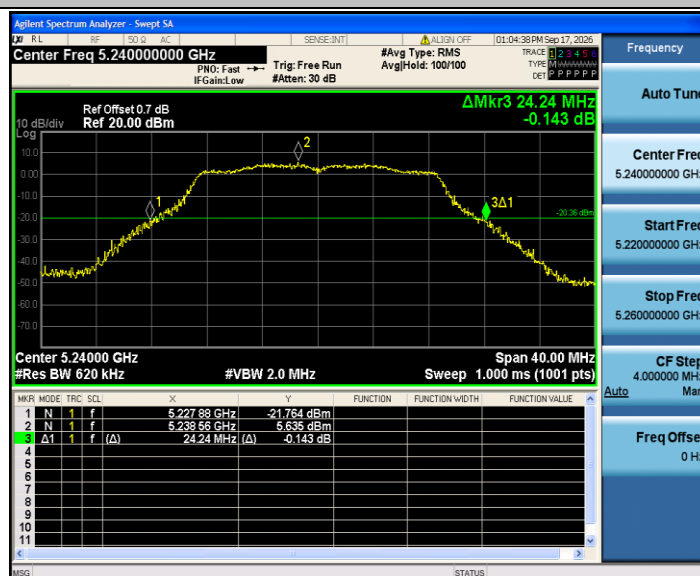
11N20SISO_Ant2_5180



11N20SISO_Ant2_5220



11N20SISO_Ant2_5240



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5190