



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Thin Client

Test Model: AK7

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan



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D.1 Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant	5180	18.520	5170.760	5189.280	---	---
		5220	18.520	5210.760	5229.280	---	---
		5240	18.440	5230.800	5249.240	---	---
11N20SISO	Ant	5180	19.440	5170.280	5189.720	---	---
		5220	19.480	5210.280	5229.760	---	---
		5240	19.440	5230.280	5249.720	---	---
11N40SISO	Ant	5190	41.440	5169.360	5210.800	---	---
		5230	41.360	5209.360	5250.720	---	---
11AC20SISO	Ant	5180	19.440	5170.280	5189.720	---	---
		5220	19.480	5210.240	5229.720	---	---
		5240	19.480	5230.240	5249.720	---	---
11AC40SISO	Ant	5190	41.200	5169.280	5210.480	---	---
		5230	41.280	5209.200	5250.480	---	---
11AC80SISO	Ant	5210	81.440	5169.520	5250.960	---	---



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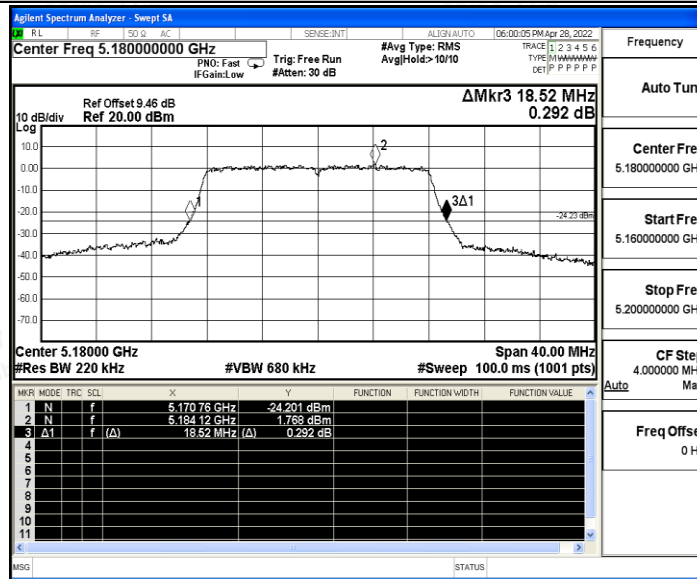
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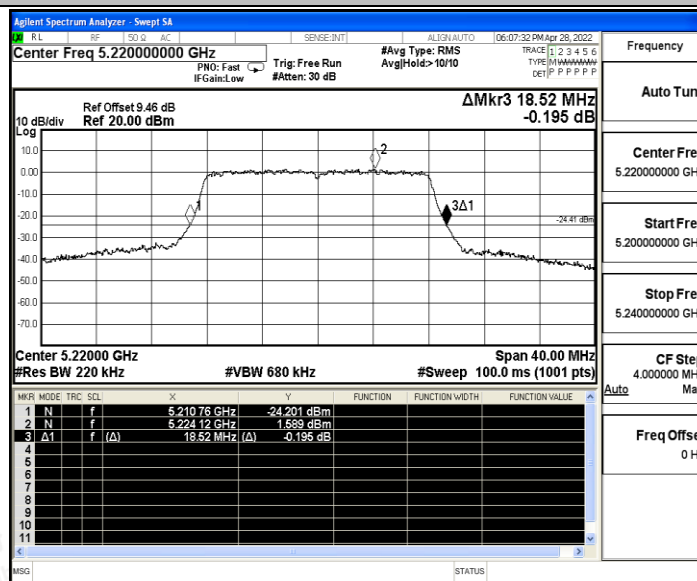


Test Graphs

11A_Ant_5180



11A_Ant_5220



11A_Ant_5240

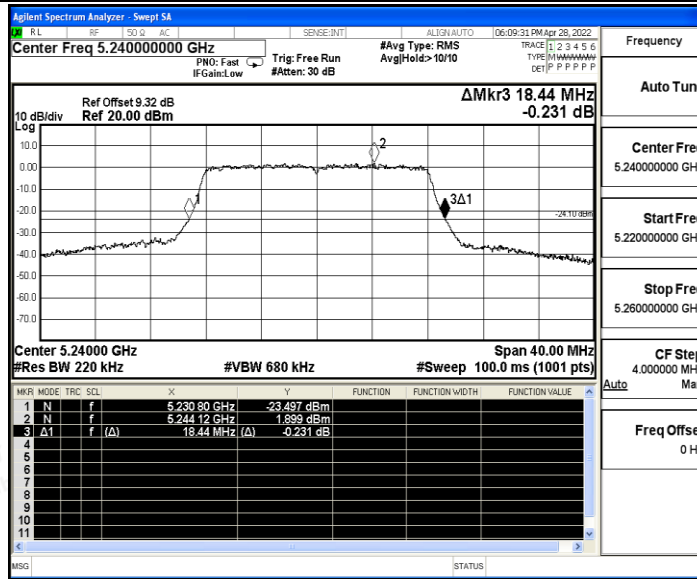


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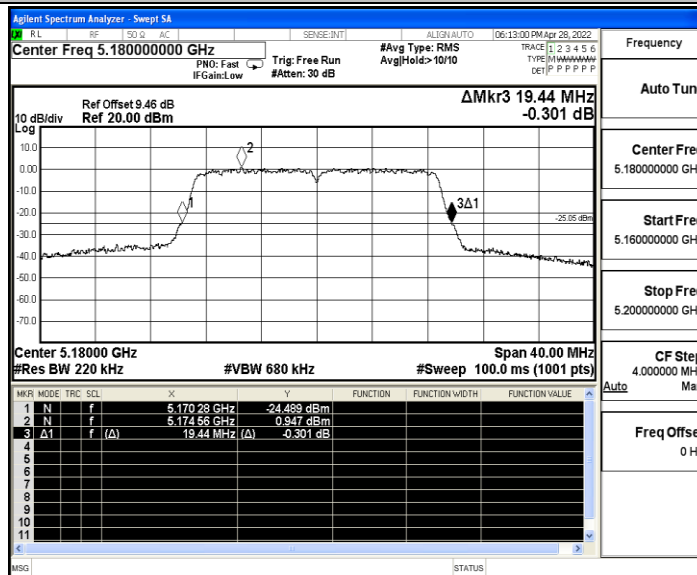
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11N20SISO_Ant_5180



11N20SISO_Ant_5220

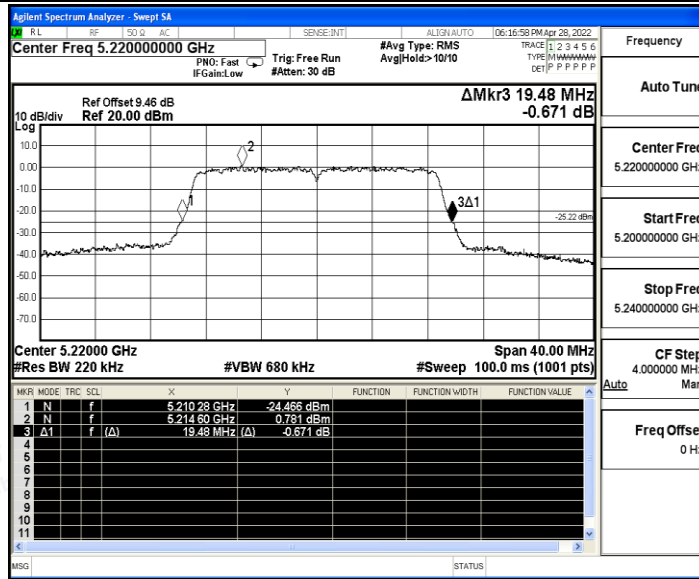


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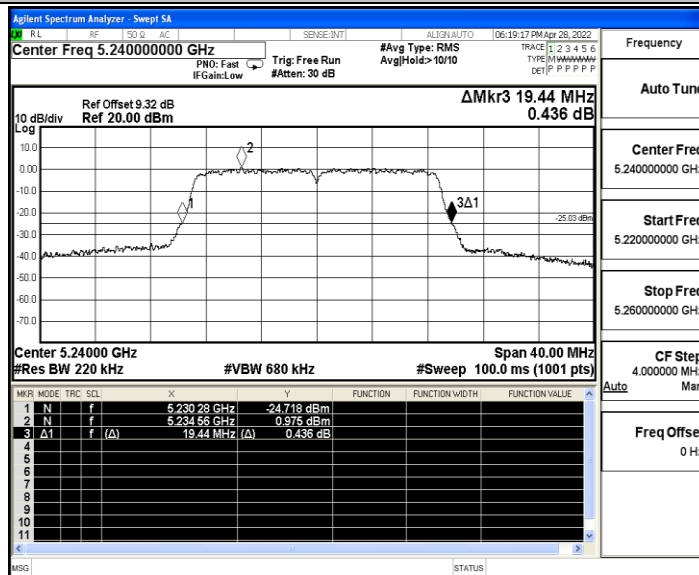
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11N20ISO_Ant_5240



11N40ISO_Ant_5190

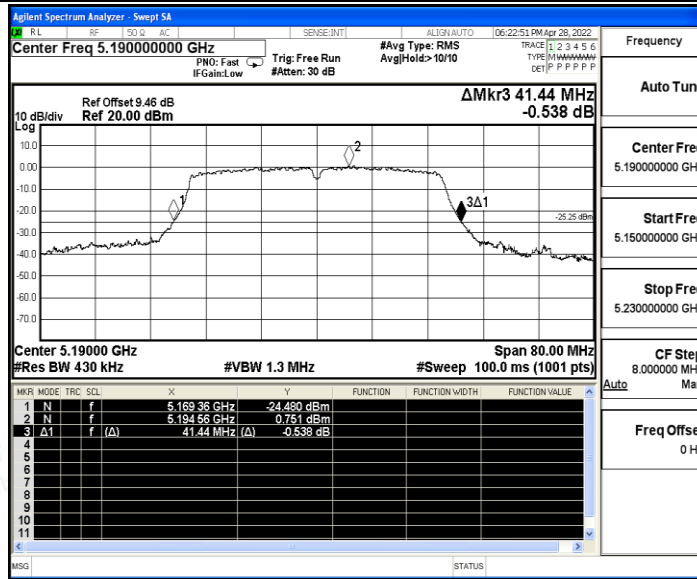


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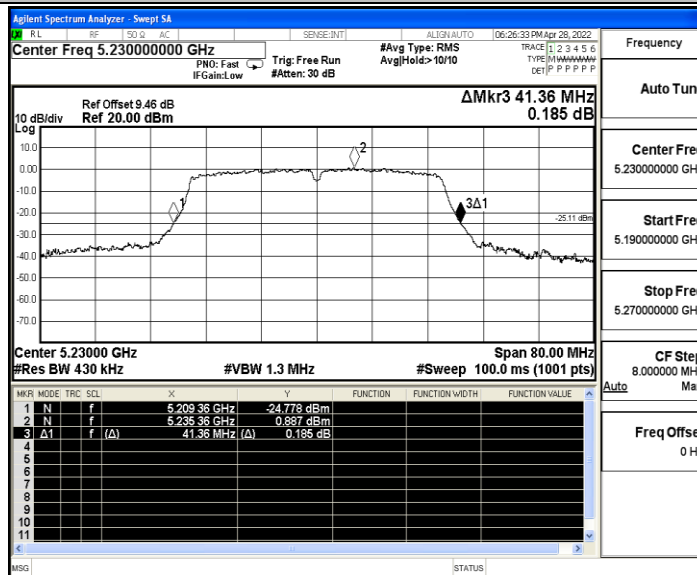
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

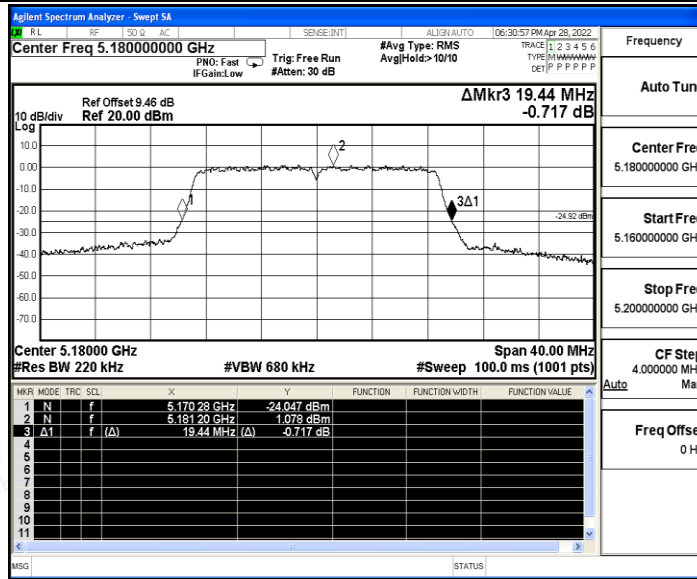


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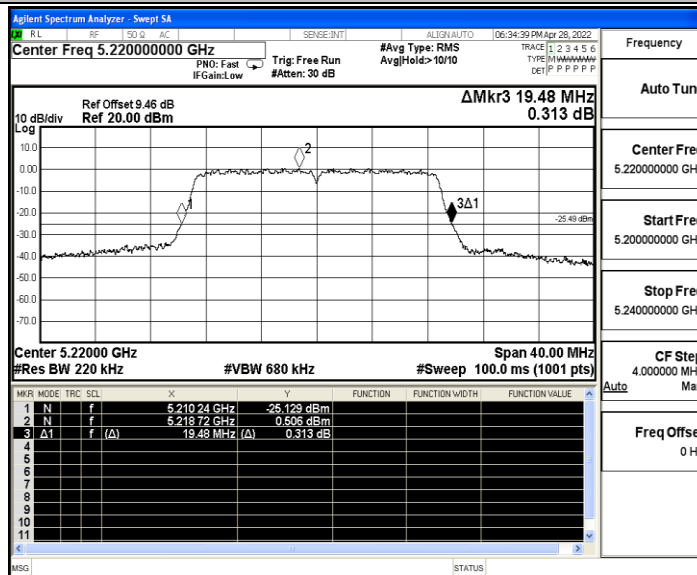
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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

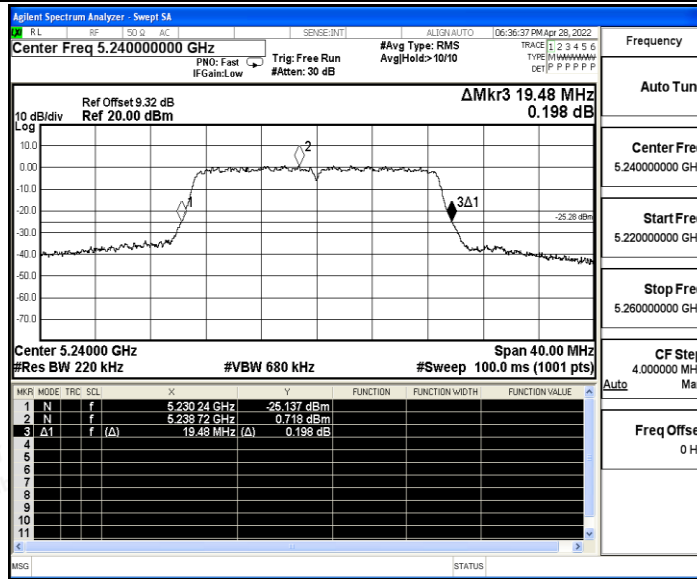


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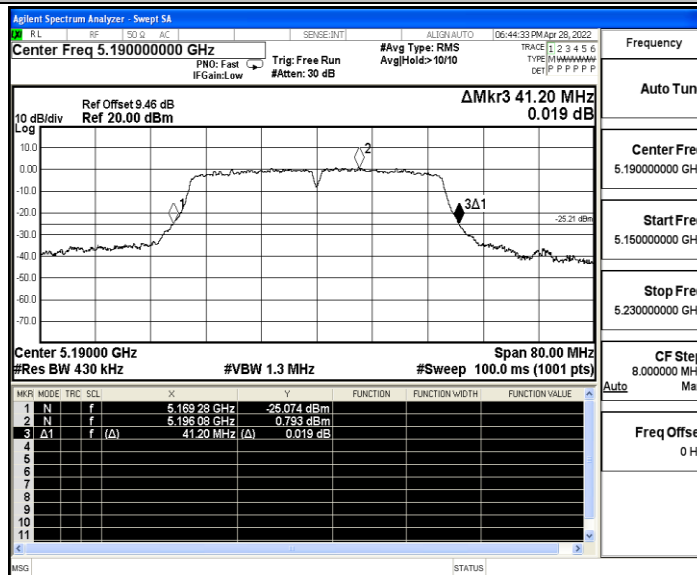
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11AC40SISO_Ant_5190



11AC40SISO_Ant_5230

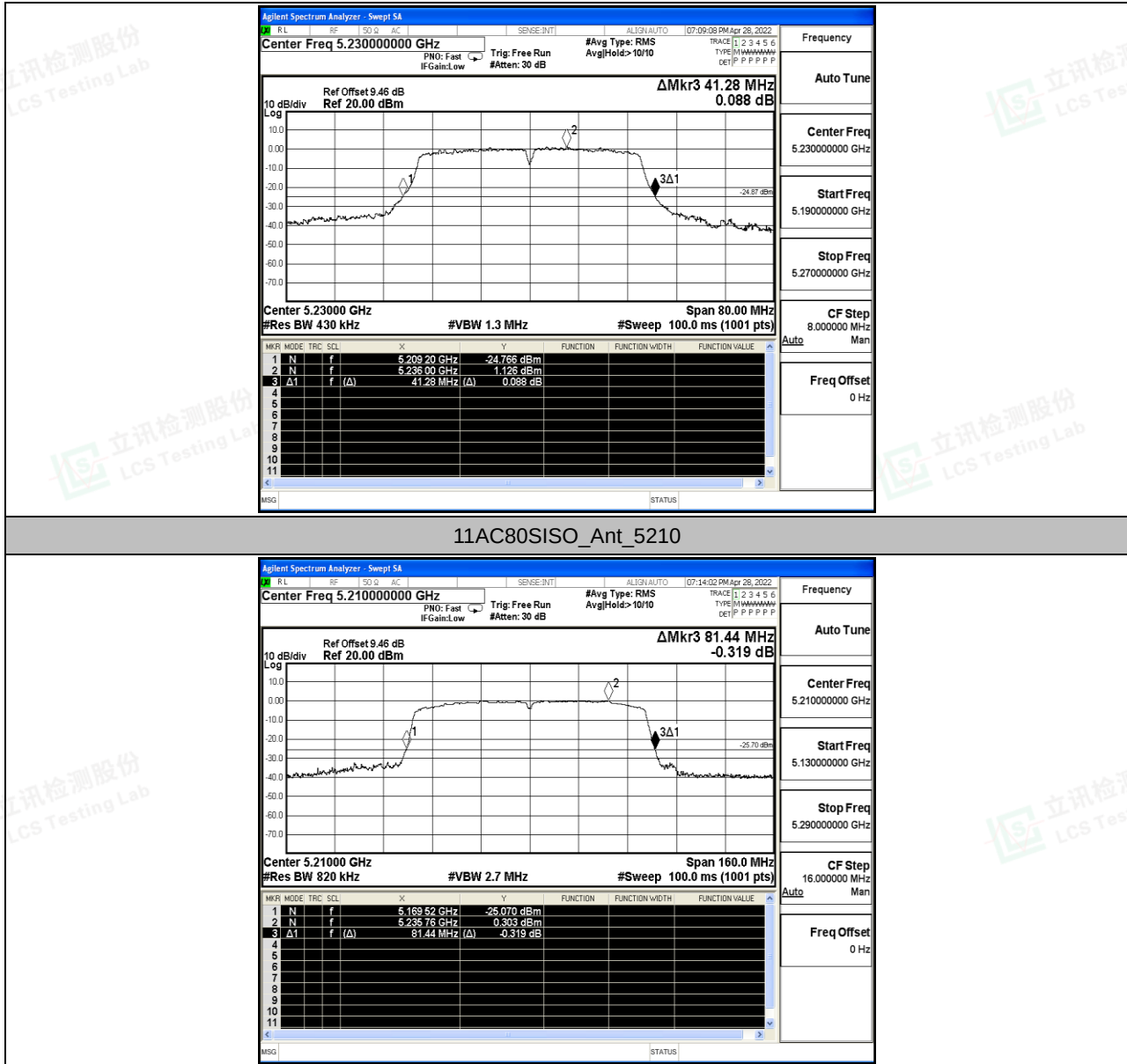


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D.2 Maximum conducted output power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant	5180	11.46	≤23.98	PASS
		5220	11.39	≤23.98	PASS
		5240	11.56	≤23.98	PASS
11N20SISO	Ant	5180	10.61	≤23.98	PASS
		5220	10.55	≤23.98	PASS
		5240	10.70	≤23.98	PASS
11N40SISO	Ant	5190	10.81	≤23.98	PASS
		5230	10.82	≤23.98	PASS
11AC20SISO	Ant	5180	10.73	≤23.98	PASS
		5220	10.53	≤23.98	PASS
		5240	10.73	≤23.98	PASS
11AC40SISO	Ant	5190	10.61	≤23.98	PASS
		5230	11.03	≤23.98	PASS
11AC80SISO	Ant	5210	10.75	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the graph.



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D.3 Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant	5180	0.14	≤ 11.00	PASS
		5220	-0.01	≤ 11.00	PASS
		5240	0.35	≤ 11.00	PASS
11N20SISO	Ant	5180	-1.00	≤ 11.00	PASS
		5220	-1.12	≤ 11.00	PASS
		5240	-1.02	≤ 11.00	PASS
11N40SISO	Ant	5190	-3.61	≤ 11.00	PASS
		5230	-3.6	≤ 11.00	PASS
11AC20SISO	Ant	5180	-0.98	≤ 11.00	PASS
		5220	-1.32	≤ 11.00	PASS
		5240	-1.03	≤ 11.00	PASS
11AC40SISO	Ant	5190	-3.77	≤ 11.00	PASS
		5230	-3.11	≤ 11.00	PASS
11AC80SISO	Ant	5210	-6.00	≤ 11.00	PASS

Note: The Duty Cycle Factor and RBW Factor is compensated in the graph.



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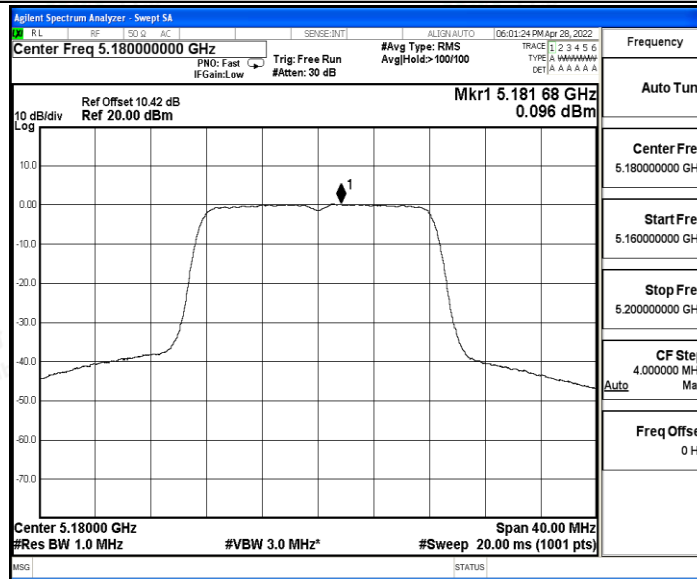
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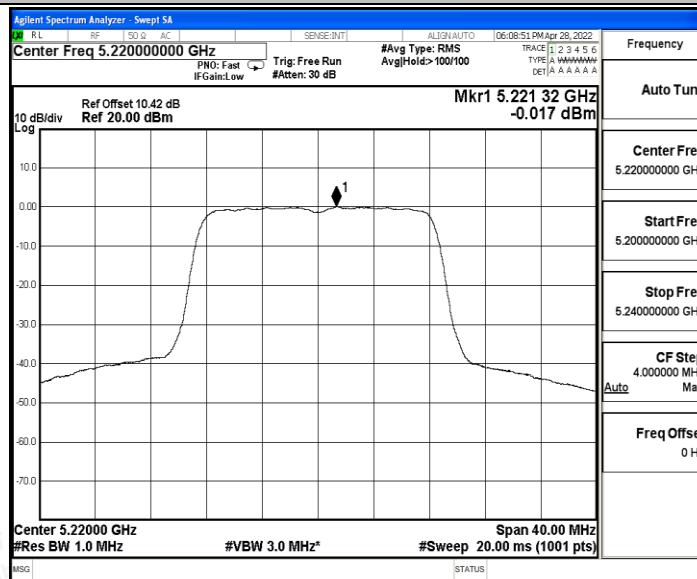


Test Graphs

11A_Ant_5180



11A_Ant_5220



11A_Ant_5240

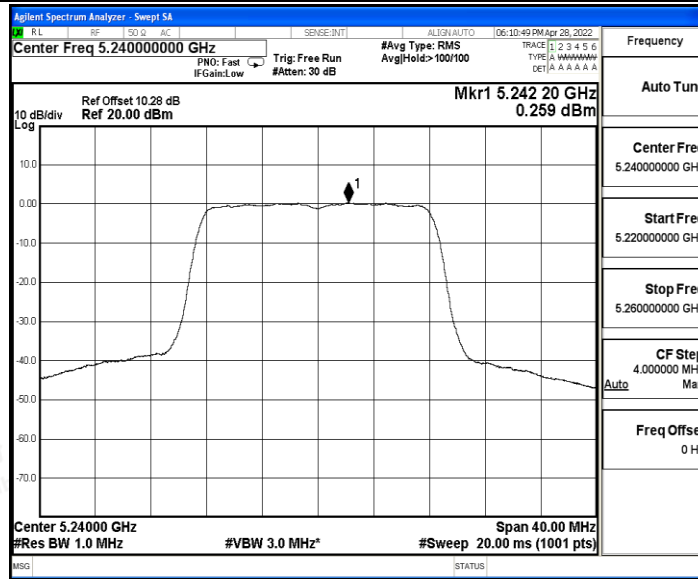


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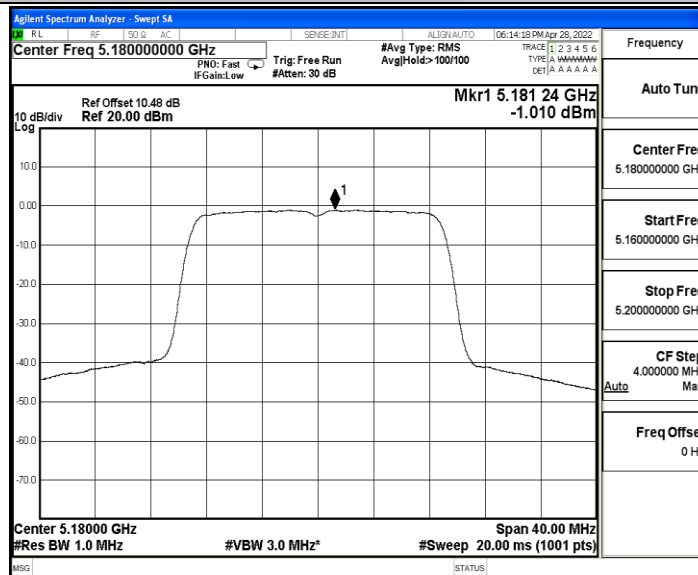
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11N20SISO_Ant_5180



11N20SISO_Ant_5220

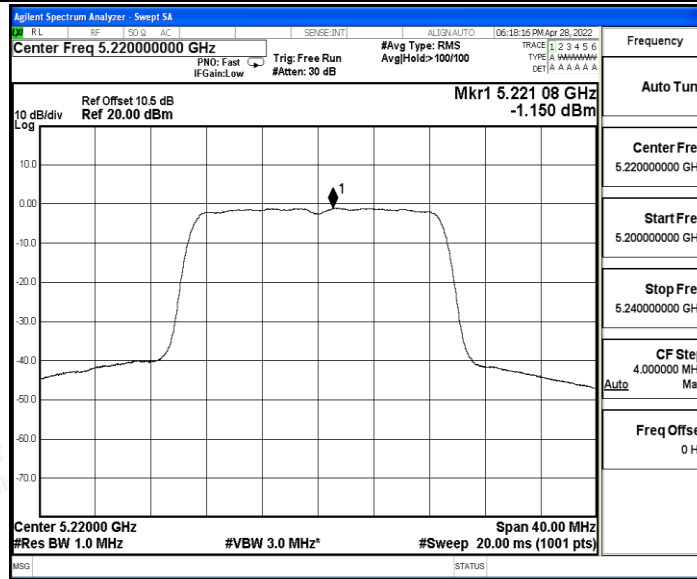


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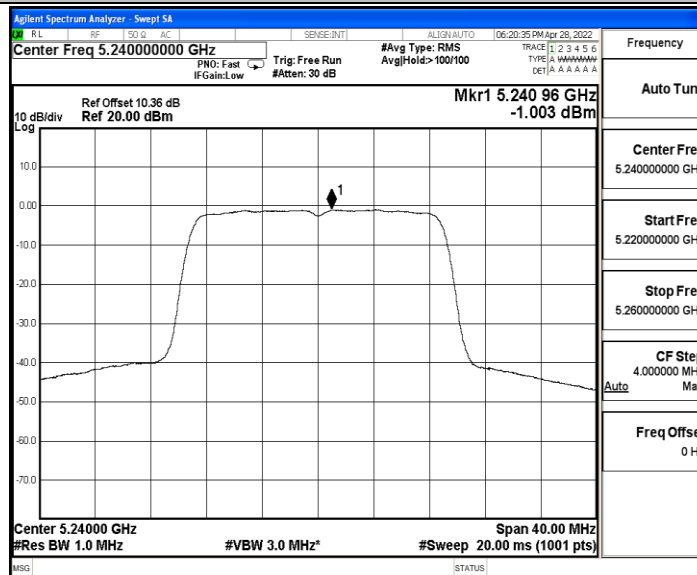
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

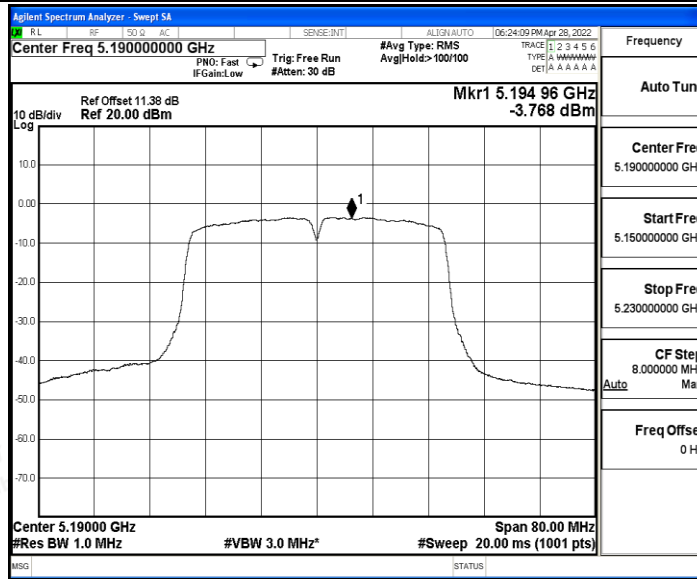


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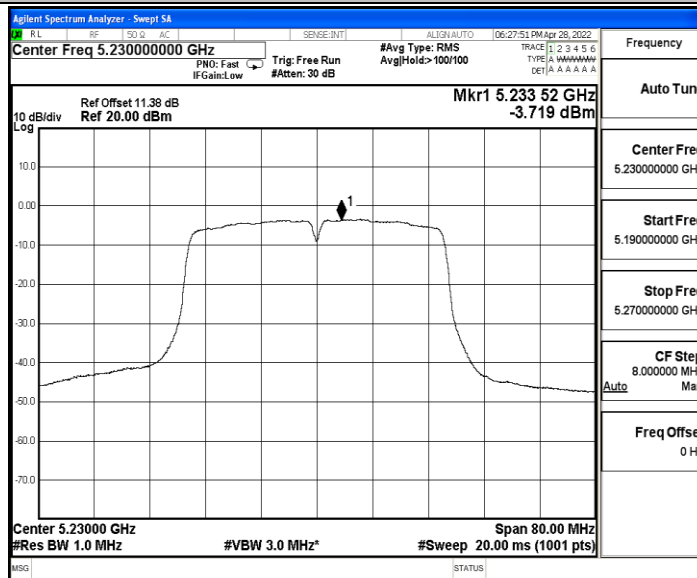
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

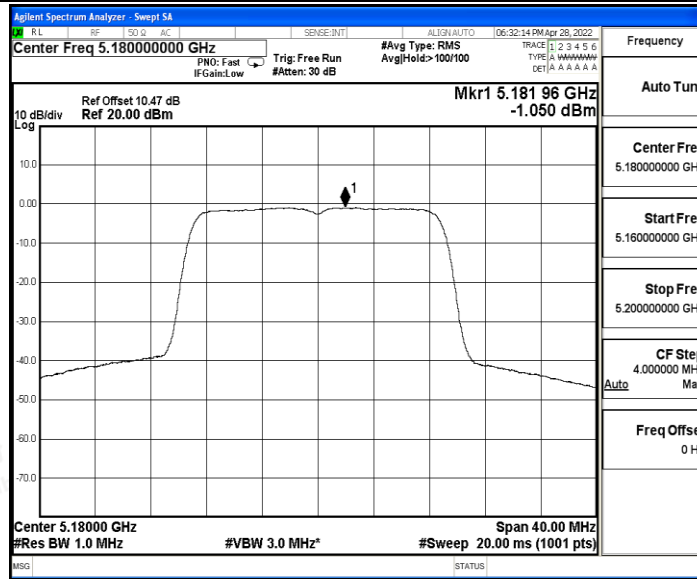


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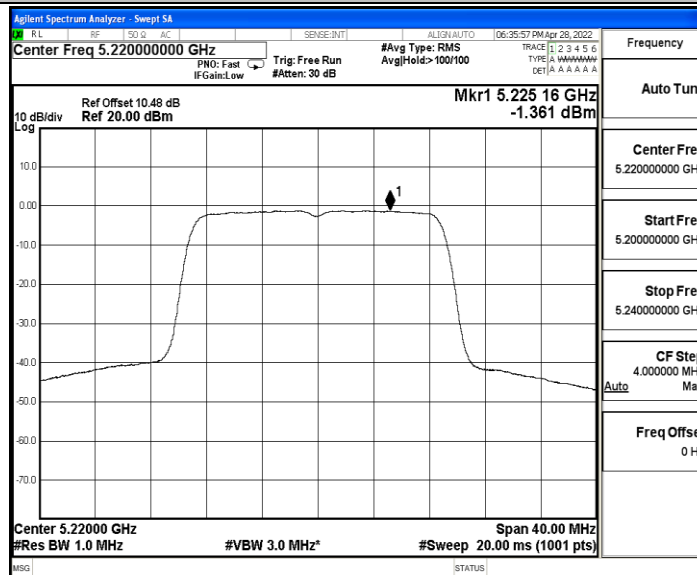
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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

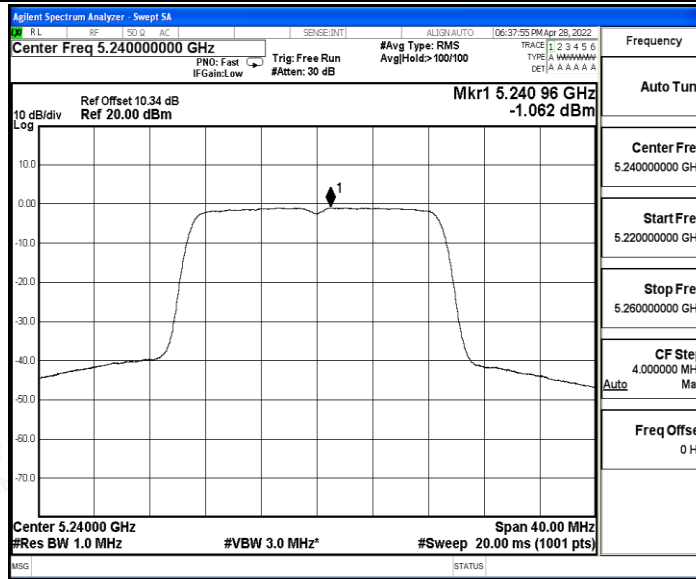


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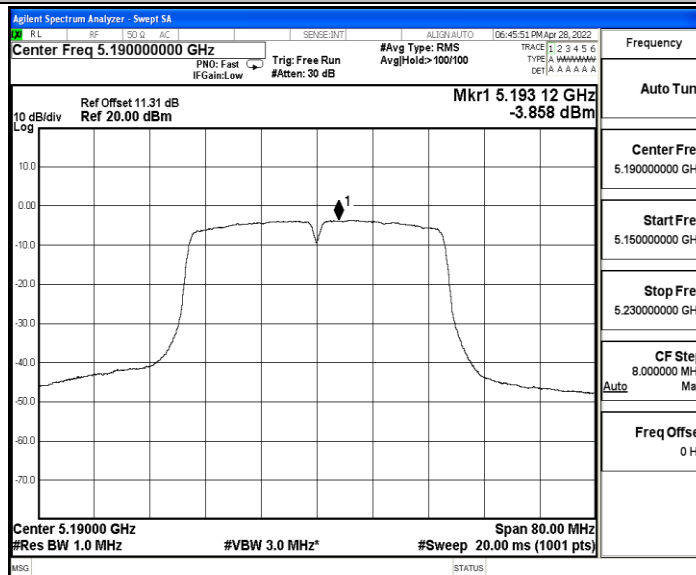
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11AC40SISO_Ant_5190



11AC40SISO_Ant_5230

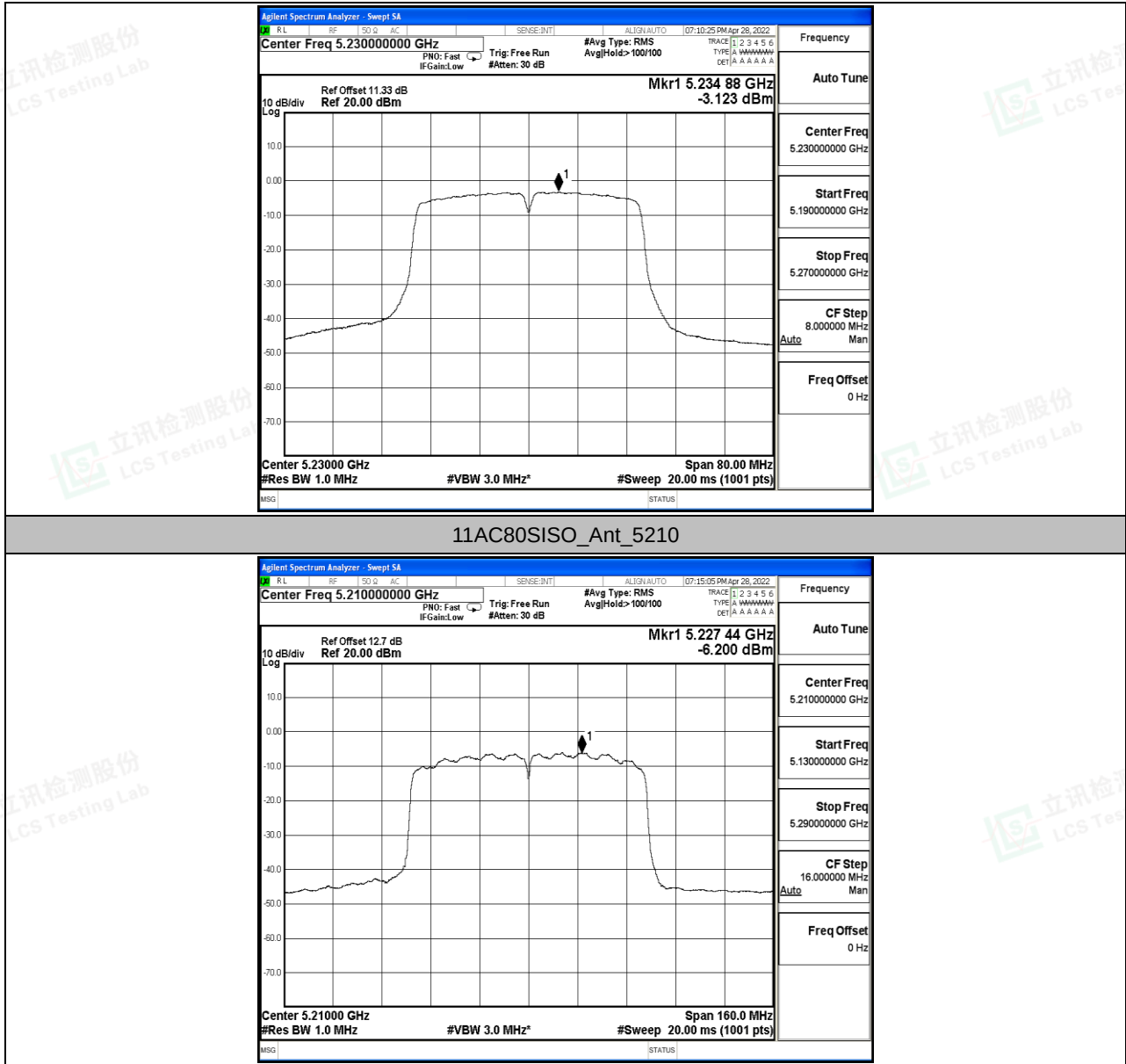


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D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	Detector	Freq [MHz]	Result [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant	Low	5180	AV	4500.000	-49.04	46.16	≤54	PASS
				AV	4895.500	-46.85	48.35	≤54	PASS
				AV	5150.000	-47.24	47.96	≤54	PASS
				Peak	4500.000	-40.11	55.09	≤74	PASS
				Peak	4853.500	-36	59.20	≤74	PASS
				Peak	5150.000	-38.82	56.38	≤74	PASS
		High	5240	AV	5350.000	-46.89	48.31	≤54	PASS
				AV	5353.440	-46.69	48.51	≤54	PASS
				AV	5460.000	-47.52	47.68	≤54	PASS
				Peak	5350.000	-37.81	57.39	≤74	PASS
				Peak	5351.040	-35.86	59.34	≤74	PASS
				Peak	5460.000	-39.85	55.35	≤74	PASS
11N20SIS O	Ant	Low	5180	AV	4500.000	-49.07	46.13	≤54	PASS
				AV	4915.100	-46.9	48.30	≤54	PASS
				AV	5150.000	-47.25	47.95	≤54	PASS
				Peak	4500.000	-40.2	55.00	≤74	PASS
				Peak	4896.900	-36.58	58.62	≤74	PASS
				Peak	5150.000	-38.41	56.79	≤74	PASS
		High	5240	AV	5350.000	-47.06	48.14	≤54	PASS
				AV	5351.760	-46.83	48.37	≤54	PASS
				AV	5460.000	-47.43	47.77	≤54	PASS
				Peak	5350.000	-38.92	56.28	≤74	PASS
				Peak	5379.360	-36.27	58.93	≤74	PASS
				Peak	5460.000	-38.35	56.85	≤74	PASS
11N40SIS O	Ant	Low	5190	AV	4500.000	-48.92	46.28	≤54	PASS
				AV	5149.600	-43.58	51.62	≤54	PASS
				AV	5150.000	-43.25	51.95	≤54	PASS
				Peak	4500.000	-40.88	54.32	≤74	PASS
				Peak	5147.500	-32.11	63.09	≤74	PASS
				Peak	5150.000	-32.51	62.69	≤74	PASS
		High	5230	AV	5350.000	-46.7	48.50	≤54	PASS
				AV	5391.360	-46.63	48.57	≤54	PASS
				AV	5460.000	-46.82	48.38	≤54	PASS
				Peak	5350.000	-38.44	56.76	≤74	PASS
				Peak	5438.940	-36.04	59.16	≤74	PASS
				Peak	5460.000	-38.29	56.91	≤74	PASS
11AC20SI	Ant	Low	5180	AV	4500.000	-49.08	46.12	≤54	PASS



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SO				AV	4811.500	-47.01	48.19	≤54	PASS
				AV	5150.000	-47.34	47.86	≤54	PASS
				Peak	4500.000	-40.22	54.98	≤74	PASS
				Peak	4901.800	-36.98	58.22	≤74	PASS
				Peak	5150.000	-38.52	56.68	≤74	PASS
		High	5240	AV	5350.000	-47	48.20	≤54	PASS
				AV	5378.640	-46.92	48.28	≤54	PASS
				AV	5460.000	-47.44	47.76	≤54	PASS
				Peak	5350.000	-39	56.20	≤74	PASS
				Peak	5443.440	-36.61	58.59	≤74	PASS
				Peak	5460.000	-39.4	55.80	≤74	PASS
11AC40SI SO	Ant	Low	5190	AV	4500.000	-48.72	46.48	≤54	PASS
				AV	5149.600	-43.85	51.35	≤54	PASS
				AV	5150.000	-43.3	51.90	≤54	PASS
				Peak	4500.000	-39.65	55.55	≤74	PASS
				Peak	5148.200	-33.94	61.26	≤74	PASS
				Peak	5150.000	-32.76	62.44	≤74	PASS
		High	5230	AV	5350.000	-46.73	48.47	≤54	PASS
				AV	5458.960	-46.53	48.67	≤54	PASS
				AV	5460.000	-46.93	48.27	≤54	PASS
				Peak	5350.000	-37.49	57.71	≤74	PASS
				Peak	5350.280	-36.56	58.64	≤74	PASS
				Peak	5460.000	-38.38	56.82	≤74	PASS
11AC80SI SO	Ant	Low	5210	AV	4500.000	-48.35	46.85	≤54	PASS
				AV	5149.500	-42.57	52.63	≤54	PASS
				AV	5150.000	-42.42	52.78	≤54	PASS
				Peak	4500.000	-39.95	55.25	≤74	PASS
				Peak	5146.500	-33.48	61.72	≤74	PASS
				Peak	5150.000	-32.96	62.24	≤74	PASS
		High	5210	AV	5350.000	-46.58	48.62	≤54	PASS
				AV	5378.520	-45.96	49.24	≤54	PASS
				AV	5460.000	-46.74	48.46	≤54	PASS
				Peak	5350.000	-35.16	60.04	≤74	PASS
				Peak	5432.560	-36.67	58.53	≤74	PASS
				Peak	5460.000	-38.2	57.00	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5250 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.



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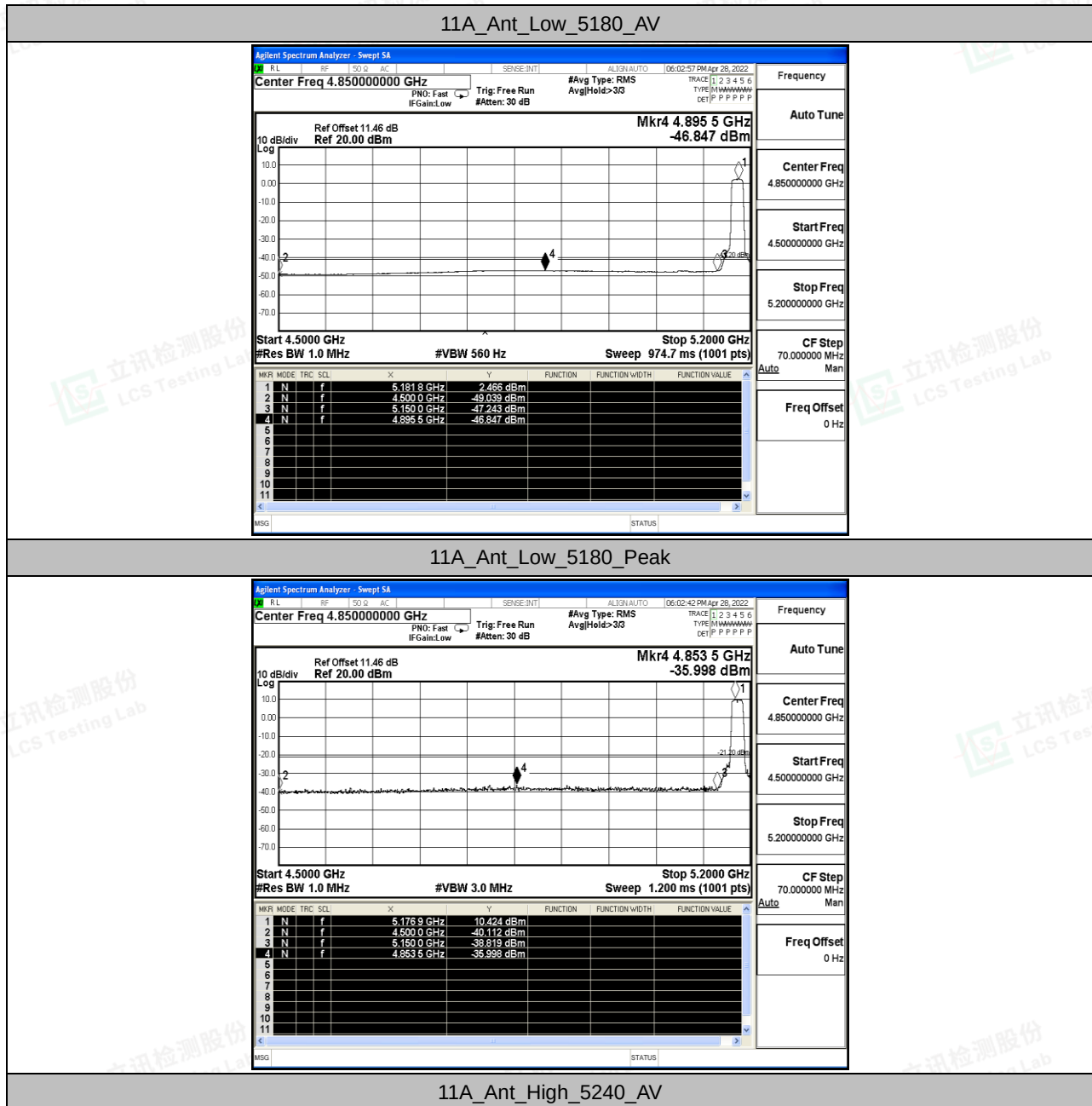
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Test Graphs

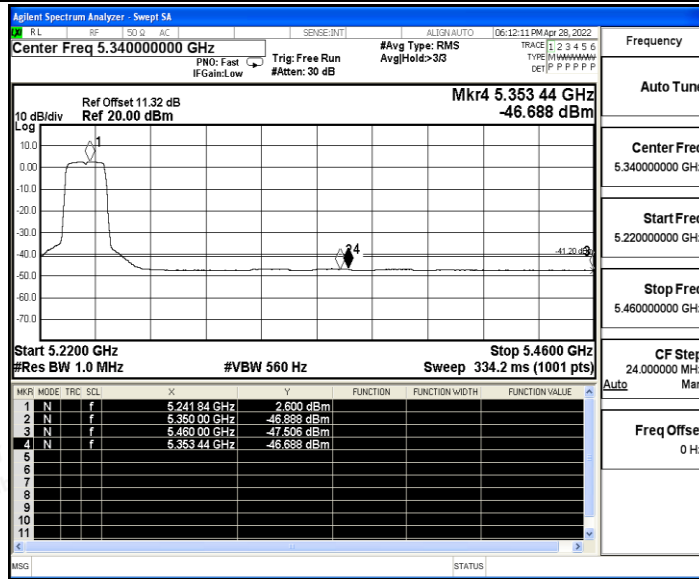


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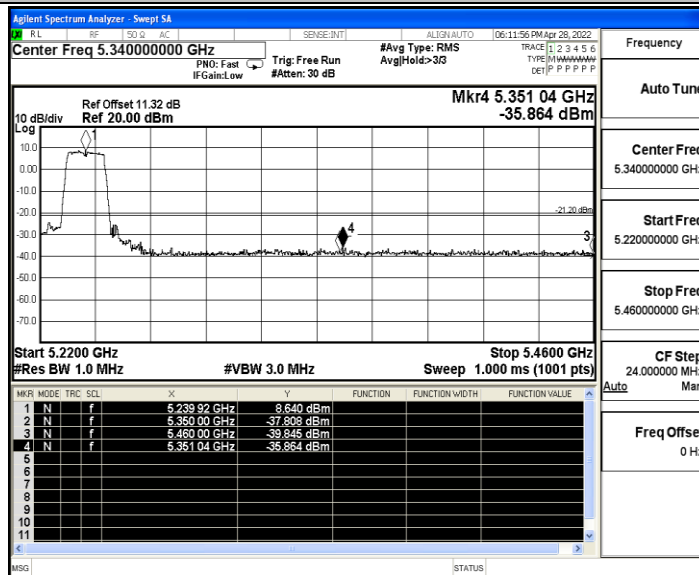
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11A_Ant_High_5240_Peak



11N20SISO_Ant_Low_5180_AV

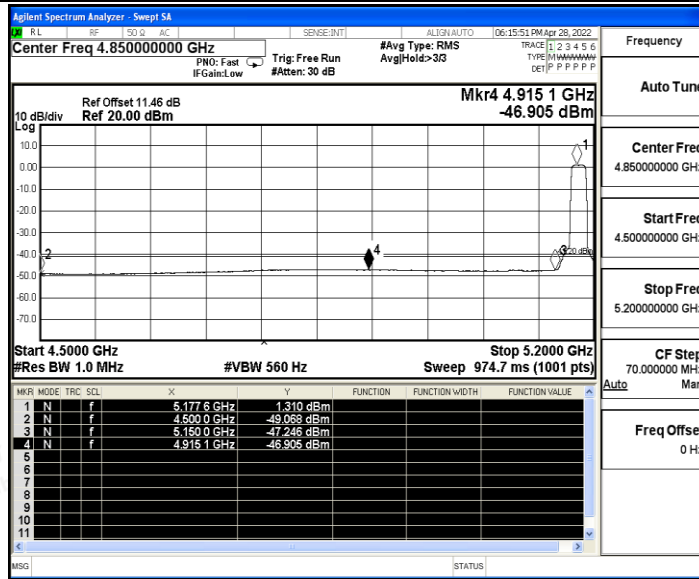


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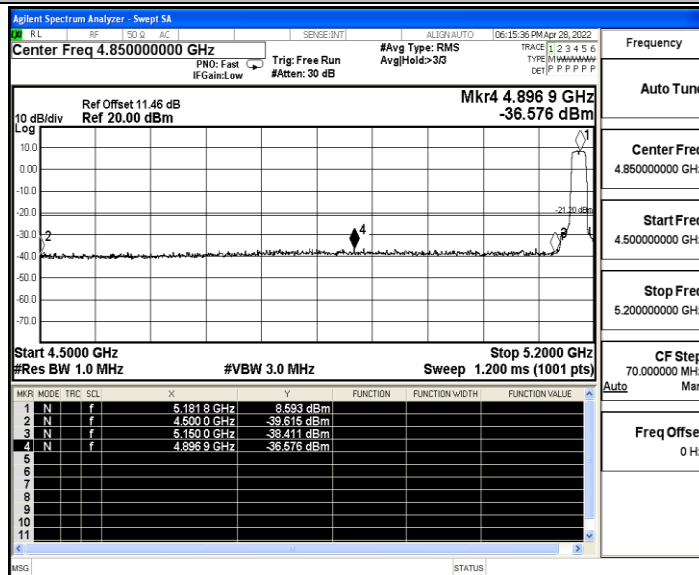
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11N20SISO_Ant_Low_5180_Peak



11N20SISO_Ant_High_5240_AV

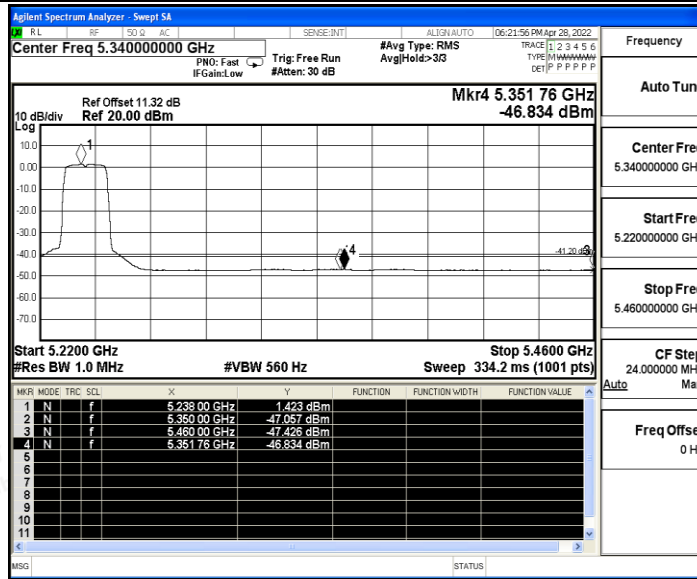


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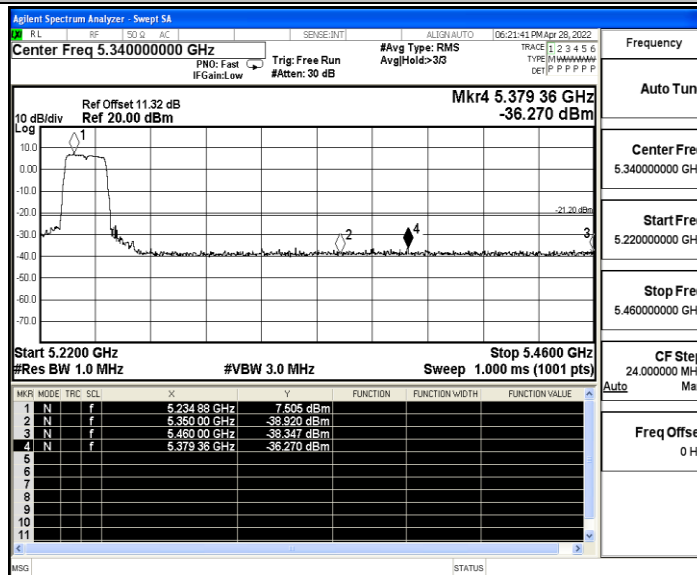
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11N20SISO_Ant_High_5240_Peak



11N40SISO_Ant_Low_5190_AV

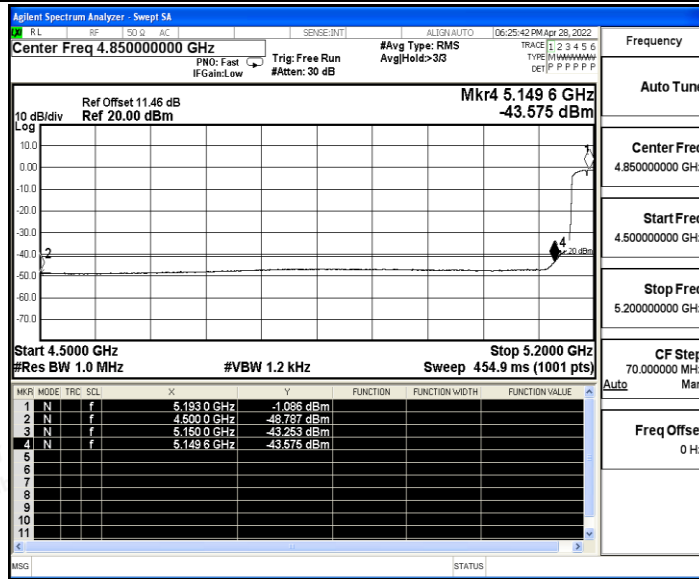


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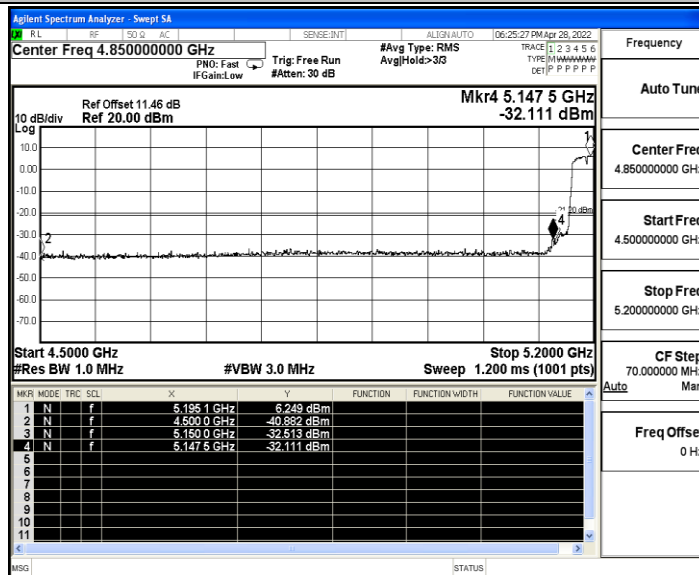
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11N40SISO_Ant_Low_5190_Peak



11N40SISO_Ant_High_5230_AV

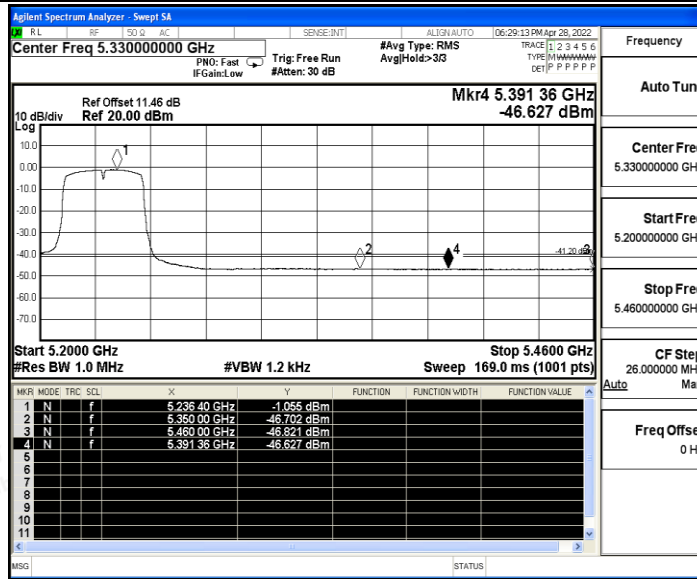


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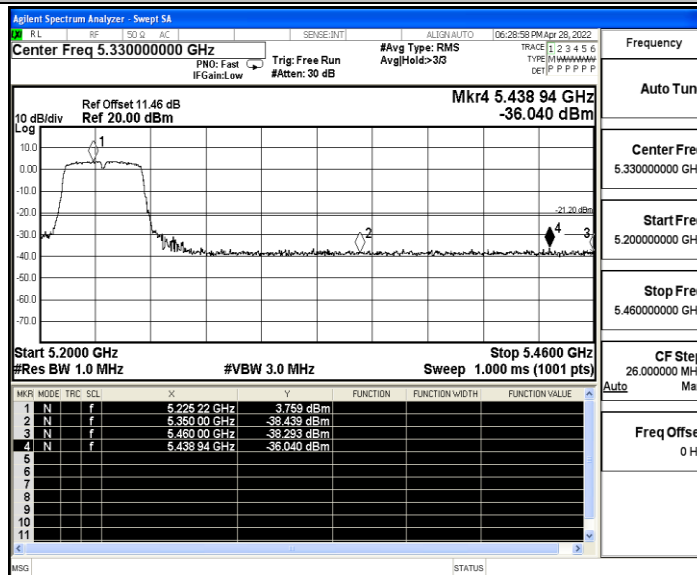
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11N40SISO_Ant_High_5230_Peak



11AC20SISO_Ant_Low_5180_AV

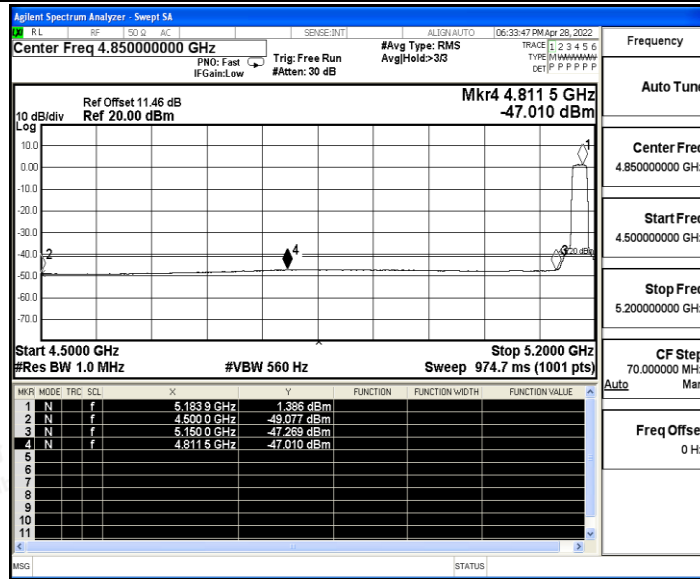


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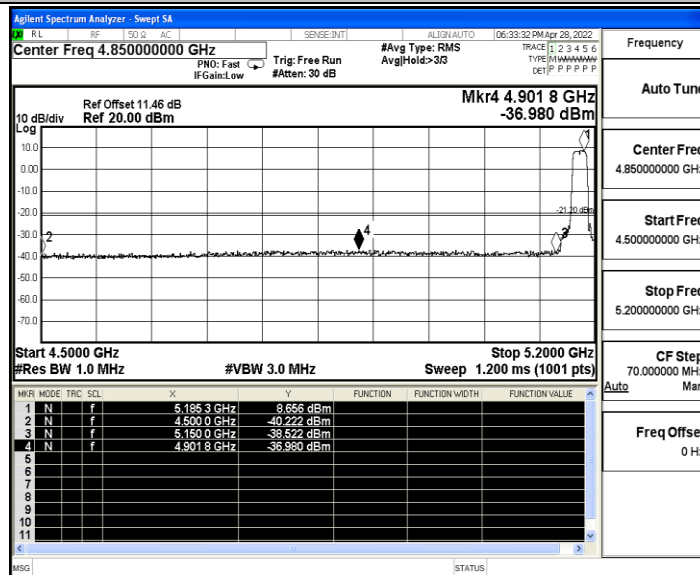
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11AC20SISO_Ant_Low_5180_Peak



11AC20SISO_Ant_High_5240_AV

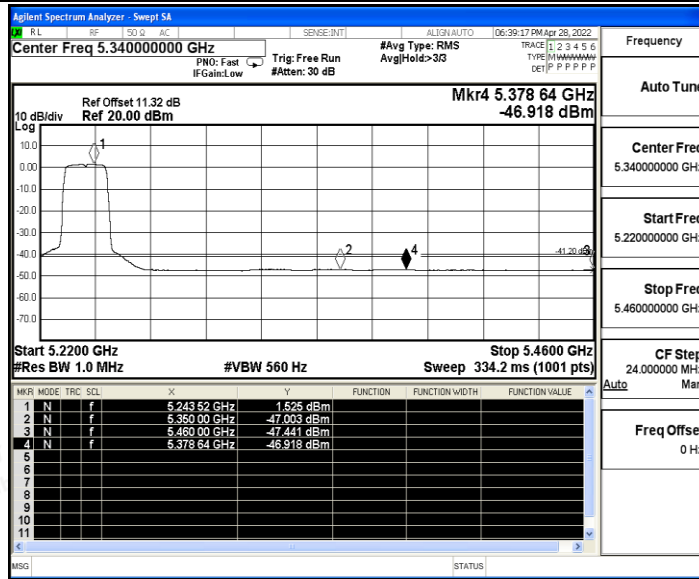


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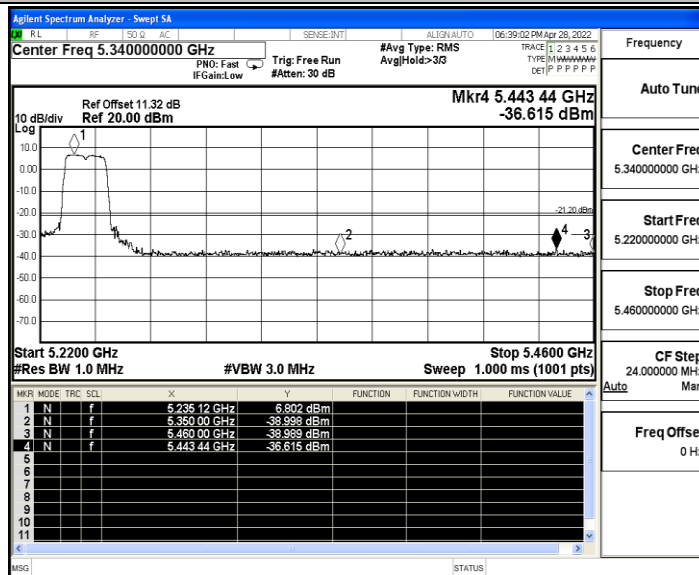
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11AC20SISO_Ant_High_5240_Peak



11AC40SISO_Ant_Low_5190_AV

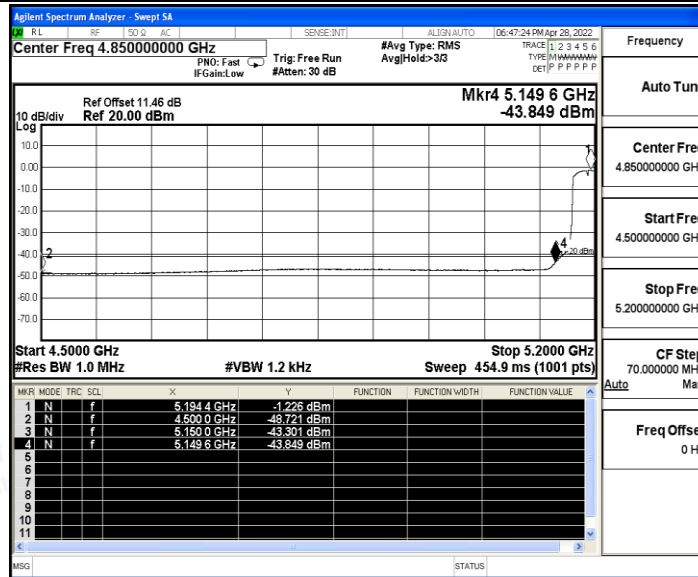


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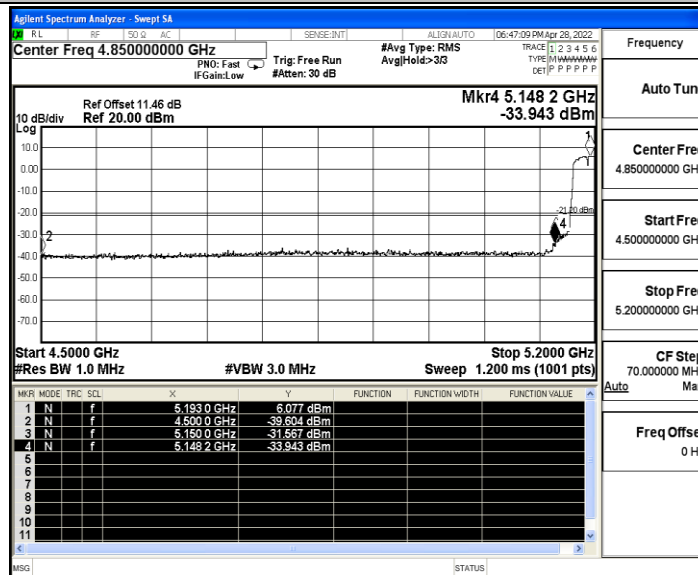
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11AC40SISO_Ant_Low_5190_Peak



11AC40SISO_Ant_High_5230_AV

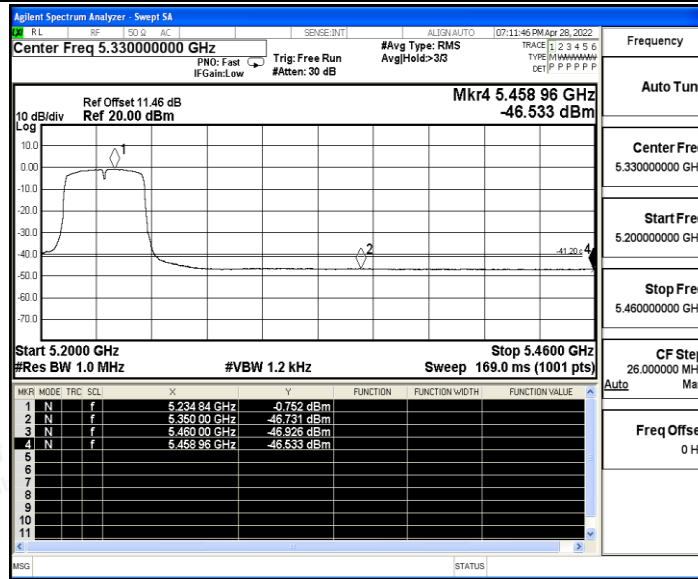


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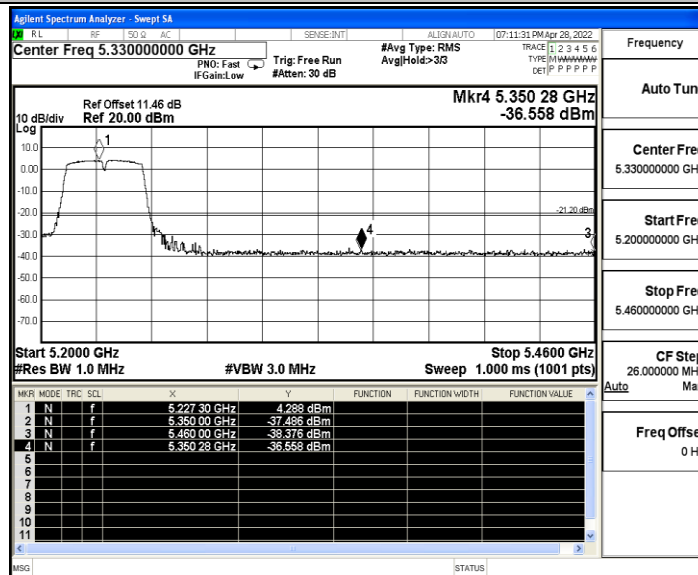
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11AC40SISO_Ant_High_5230_Peak



11AC80SISO_Ant_Low_5210_AV

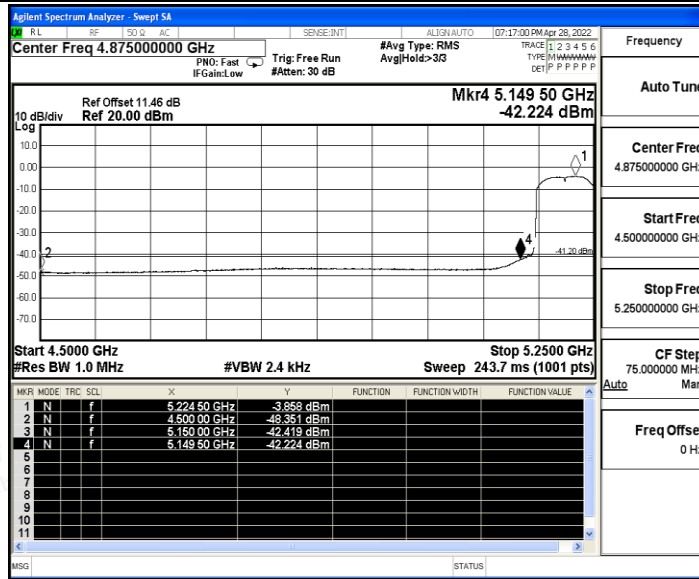


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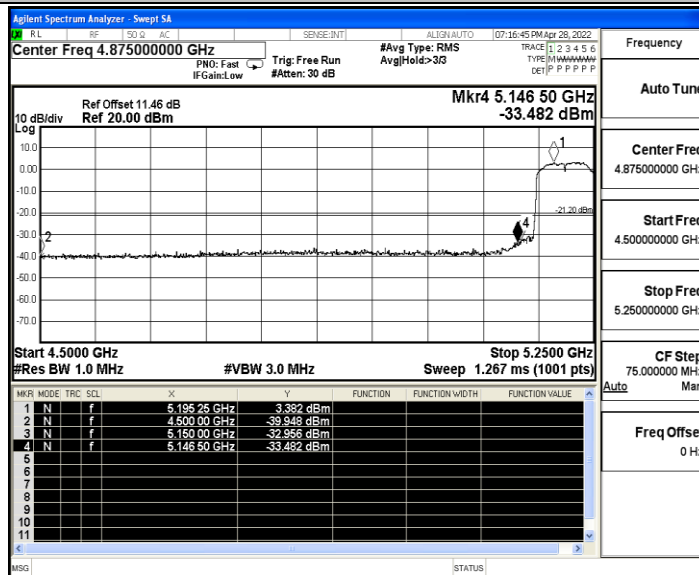
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11AC80SISO_Ant_Low_5210_Peak



11AC80SISO_Ant_High_5210_AV



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D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant	5180	NV	NT	-16000	-3.088803	20	PASS
			LV	NT	-18000	-3.474903	20	PASS
			HV	NT	-19000	-3.667954	20	PASS
		5220	NV	NT	-21000	-4.022989	20	PASS
			LV	NT	-23000	-4.40613	20	PASS
			HV	NT	-23000	-4.40613	20	PASS
		5240	NV	NT	-24000	-4.580153	20	PASS
			LV	NT	-25000	-4.770992	20	PASS
			HV	NT	-25000	-4.770992	20	PASS
11AC40SIS O	Ant	5190	NV	NT	-23000	-4.431599	20	PASS
			LV	NT	-25000	-4.816956	20	PASS
			HV	NT	-25000	-4.816956	20	PASS
		5230	NV	NT	-25000	-4.780115	20	PASS
			LV	NT	-26000	-4.971319	20	PASS
			HV	NT	-26000	-4.971319	20	PASS
11AC80SIS O	Ant	5210	NV	NT	-25000	-4.798464	20	PASS
			LV	NT	-26000	-4.990403	20	PASS
			HV	NT	-26000	-4.990403	20	PASS

Temperature								
TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant	5180	NV	-30	-19000	-3.667954	20	PASS
			NV	-20	-19000	-3.667954	20	PASS
			NV	-10	-20000	-3.861004	20	PASS
			NV	0	-20000	-3.861004	20	PASS
			NV	10	-20000	-3.861004	20	PASS
			NV	20	-21000	-4.054054	20	PASS
			NV	30	-21000	-4.054054	20	PASS
			NV	40	-21000	-4.054054	20	PASS
			NV	50	-21000	-4.054054	20	PASS
		5220	NV	-30	-23000	-4.40613	20	PASS
			NV	-20	-24000	-4.597701	20	PASS
			NV	-10	-24000	-4.597701	20	PASS
			NV	0	-24000	-4.597701	20	PASS
			NV	10	-24000	-4.597701	20	PASS
			NV	20	-24000	-4.597701	20	PASS



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			NV	20	-24000	-4.597701	20	PASS
			NV	30	-24000	-4.597701	20	PASS
			NV	40	-24000	-4.597701	20	PASS
			NV	50	-25000	-4.789272	20	PASS
		5240	NV	-30	-25000	-4.770992	20	PASS
			NV	-20	-25000	-4.770992	20	PASS
			NV	-10	-25000	-4.770992	20	PASS
			NV	0	-26000	-4.961832	20	PASS
			NV	10	-26000	-4.961832	20	PASS
			NV	20	-26000	-4.961832	20	PASS
			NV	30	-26000	-4.961832	20	PASS
			NV	40	-26000	-4.961832	20	PASS
			NV	50	-26000	-4.961832	20	PASS
11AC40SIS O	Ant	5190	NV	-30	-25000	-4.816956	20	PASS
			NV	-20	-25000	-4.816956	20	PASS
			NV	-10	-25000	-4.816956	20	PASS
			NV	0	-26000	-5.009634	20	PASS
			NV	10	-26000	-5.009634	20	PASS
			NV	20	-26000	-5.009634	20	PASS
			NV	30	-26000	-5.009634	20	PASS
			NV	40	-26000	-5.009634	20	PASS
			NV	50	-26000	-5.009634	20	PASS
		5230	NV	-30	-26000	-4.971319	20	PASS
			NV	-20	-26000	-4.971319	20	PASS
			NV	-10	-26000	-4.971319	20	PASS
			NV	0	-26000	-4.971319	20	PASS
			NV	10	-26000	-4.971319	20	PASS
			NV	20	-26000	-4.971319	20	PASS
			NV	30	-26000	-4.971319	20	PASS
			NV	40	-26000	-4.971319	20	PASS
			NV	50	-26000	-4.971319	20	PASS
11AC80SIS O	Ant	5210	NV	-30	-26000	-4.990403	20	PASS
			NV	-20	-26000	-4.990403	20	PASS
			NV	-10	-26000	-4.990403	20	PASS
			NV	0	-26000	-4.990403	20	PASS
			NV	10	-26000	-4.990403	20	PASS
			NV	20	-27000	-5.182342	20	PASS
			NV	30	-26000	-4.990403	20	PASS
			NV	40	-26000	-4.990403	20	PASS
			NV	50	-26000	-4.990403	20	PASS



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D.6 Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant	5180	2.03	2.53	80.24
		5220	2.03	2.53	80.24
		5240	2.02	2.52	80.16
11N20SISO	Ant	5180	1.89	2.39	79.08
		5220	1.89	2.40	78.75
		5240	1.88	2.39	78.66
11N40SISO	Ant	5190	0.92	1.43	64.34
		5230	0.92	1.43	64.34
11AC20SISO	Ant	5180	1.90	2.40	79.17
		5220	1.89	2.39	79.08
		5240	1.89	2.39	79.08
11AC40SISO	Ant	5190	0.94	1.44	65.28
		5230	0.93	1.43	65.03
11AC80SISO	Ant	5210	0.45	0.95	47.37



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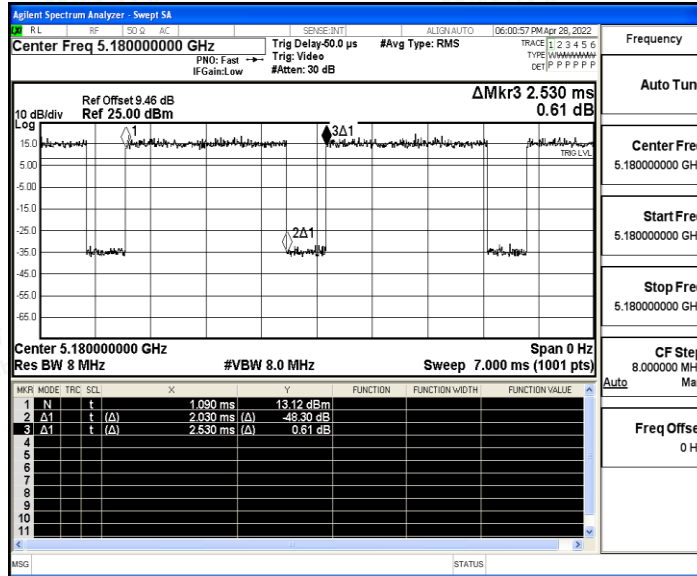
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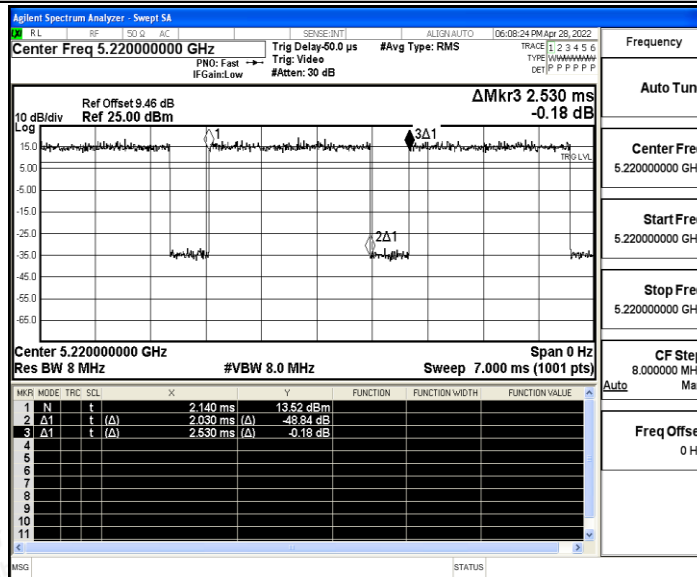


Test Graphs

11A_Ant_5180



11A_Ant_5220



11A_Ant_5240

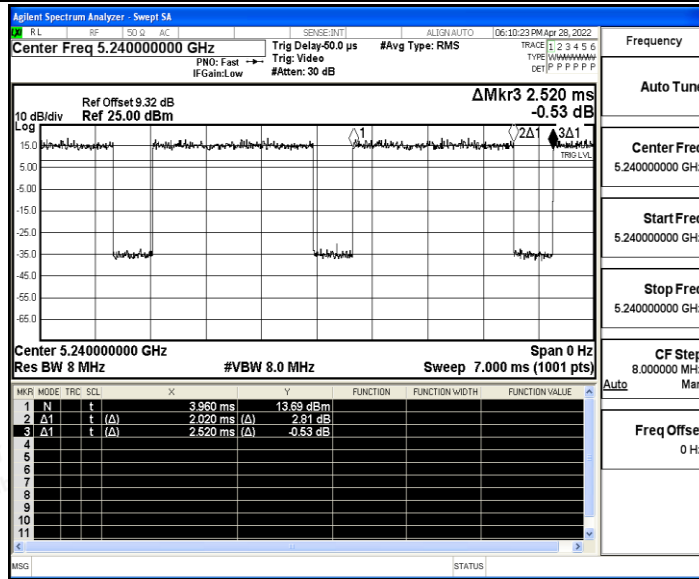


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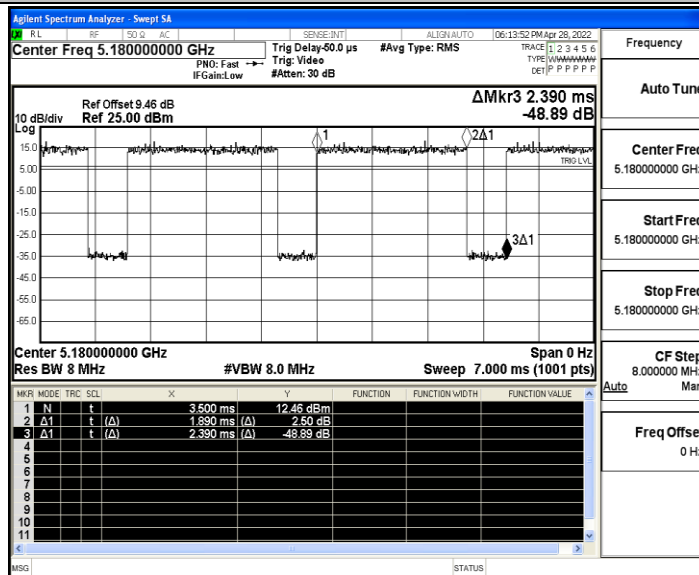
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11N20ISO_Ant_5180



11N20ISO_Ant_5220

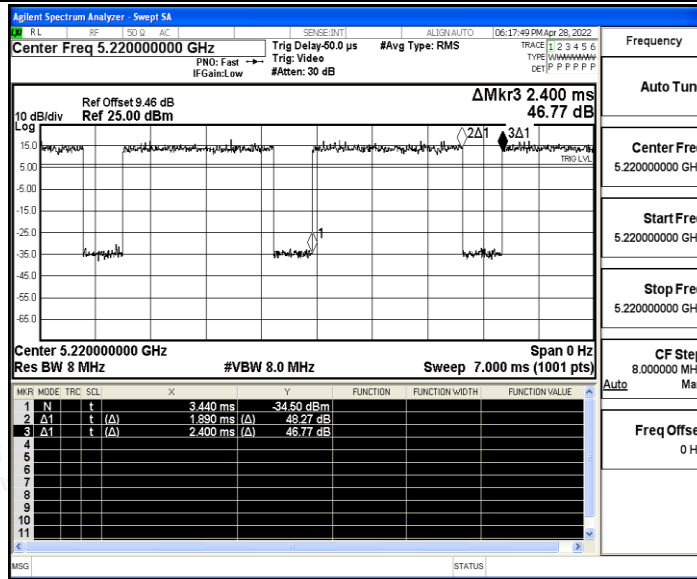


Shenzhen LCS Compliance Testing Laboratory Ltd.

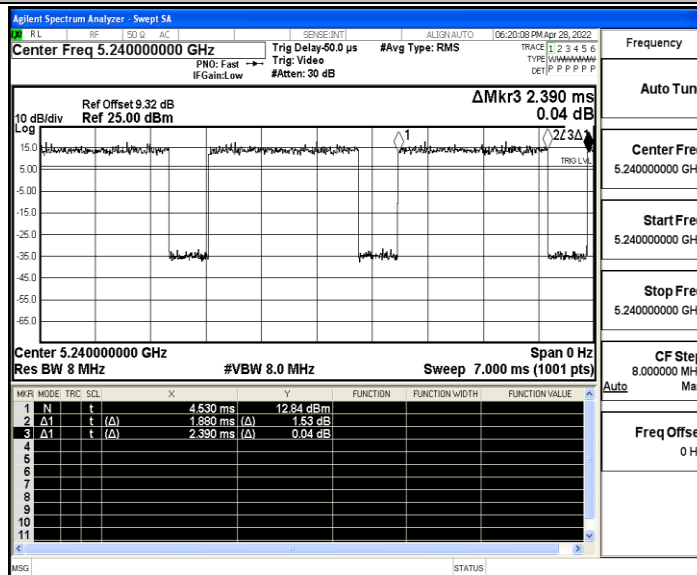
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11N20SISO_Ant_5240



11N40SISO_Ant_5190

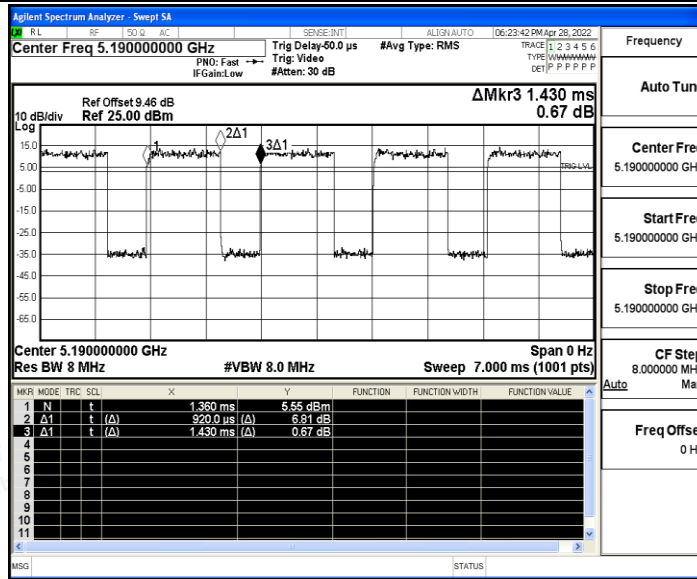


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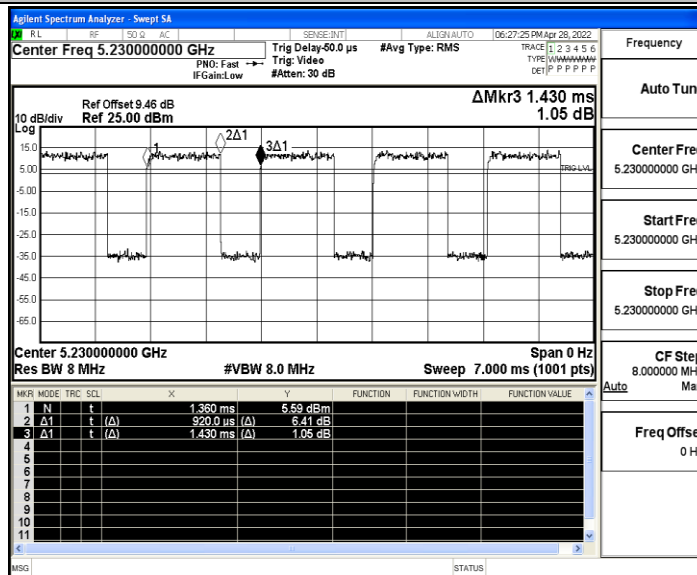
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11N40SISO_Ant_5230



11AC20SISO_Ant_5180

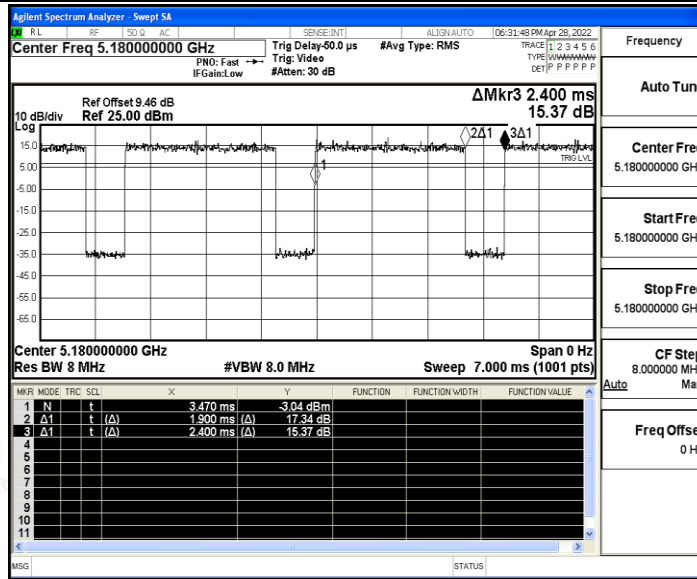


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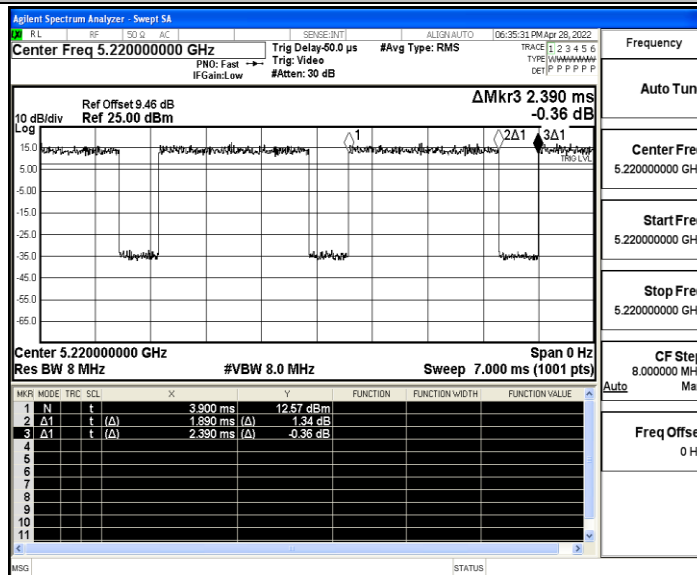
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11AC20SISO_Ant_5220



11AC20SISO_Ant_5240

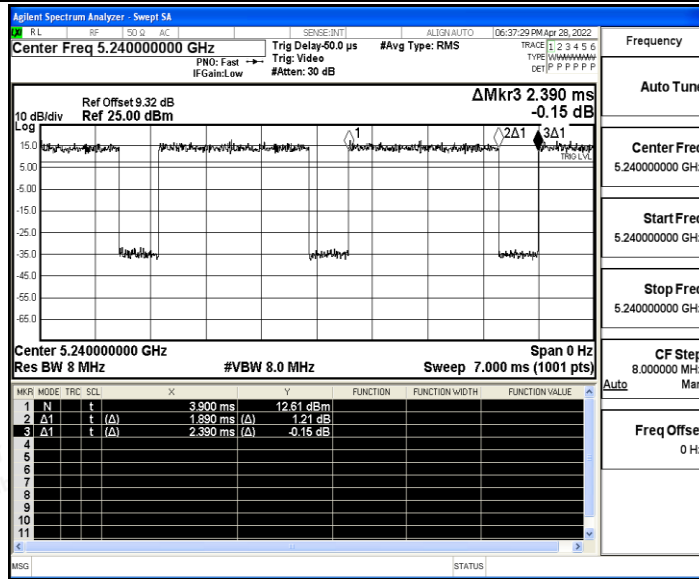


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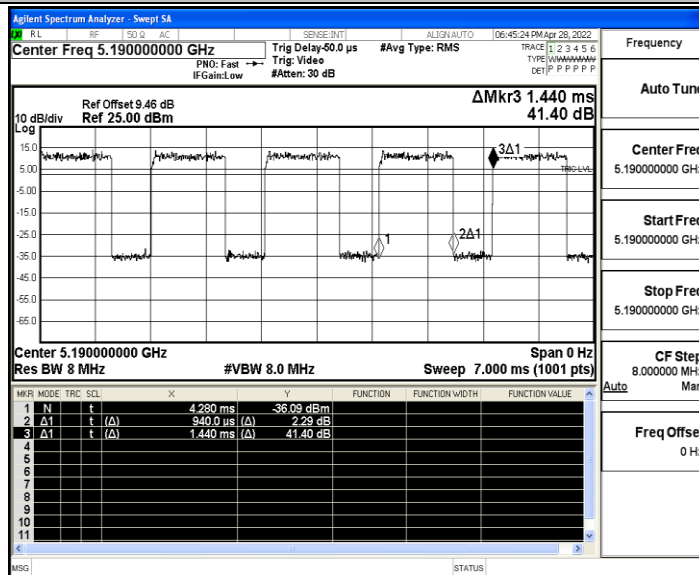
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11AC40SISO_Ant_5190



11AC40SISO_Ant_5230

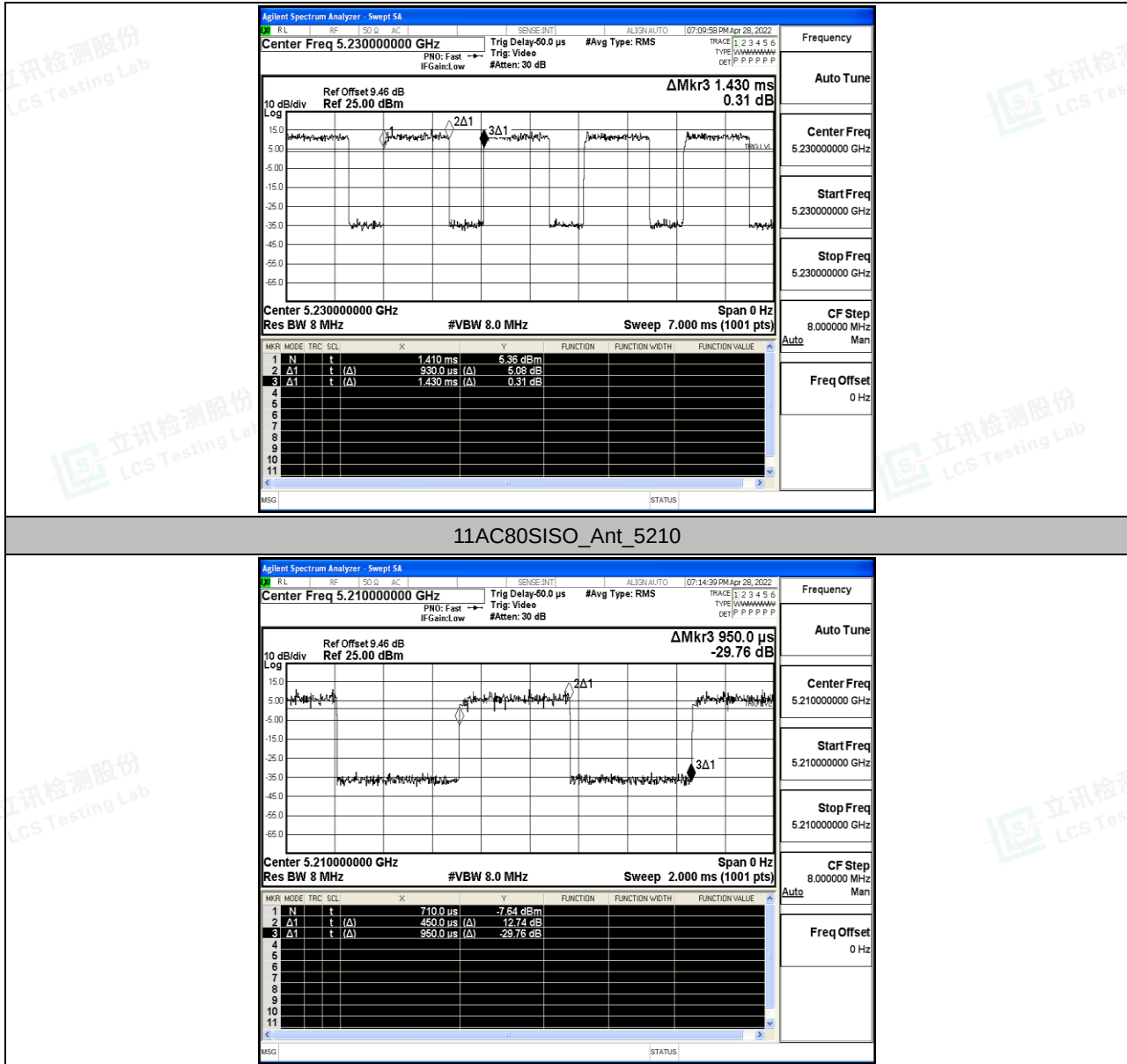


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