

Appendix B

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: ata05 Humanized Teleoperated Robot

Test Model: ATA MPM-05

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

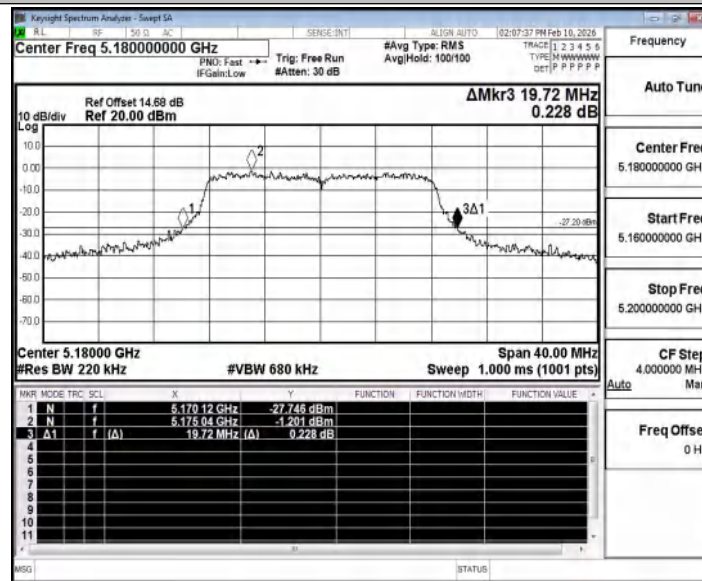
B.1 Emission Bandwidth

Test Result

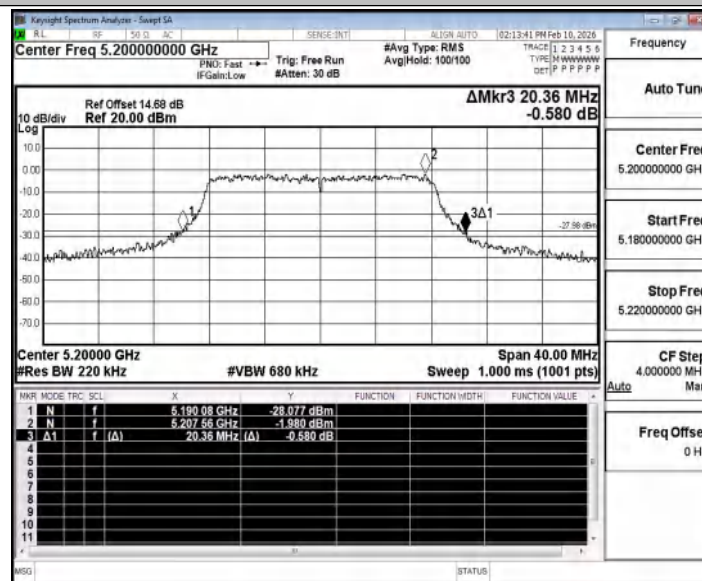
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.720	5170.120	5189.840	---	---
		5200	20.360	5190.080	5210.440	---	---
		5240	19.880	5230.120	5250.000	---	---
11N20SISO	Ant1	5180	20.480	5169.760	5190.240	---	---
		5200	20.640	5189.720	5210.360	---	---
		5240	20.560	5229.800	5250.360	---	---
11N40SISO	Ant1	5190	43.120	5168.720	5211.840	---	---
		5230	43.760	5208.720	5252.480	---	---
11AC20SISO	Ant1	5180	20.840	5169.680	5190.520	---	---
		5200	21.080	5189.480	5210.560	---	---
		5240	20.440	5229.600	5250.040	---	---
11AC40SISO	Ant1	5190	42.480	5168.720	5211.200	---	---
		5230	42.080	5209.120	5251.200	---	---

Test Graphs

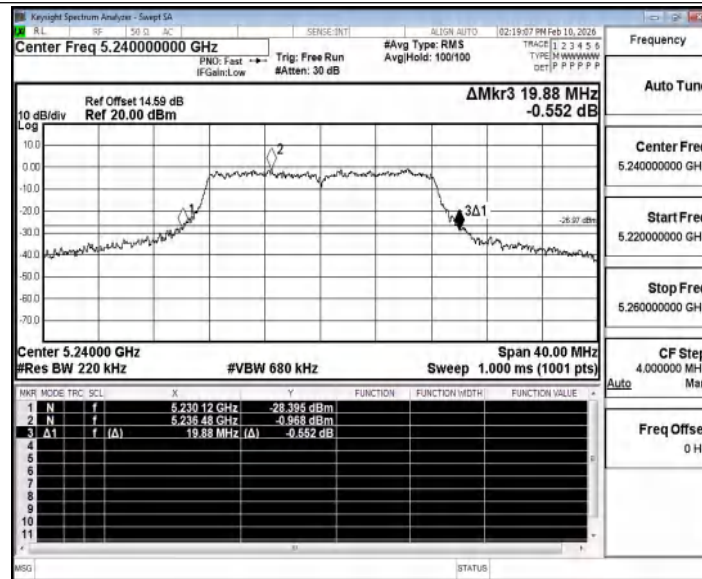
11A_Ant1_5180



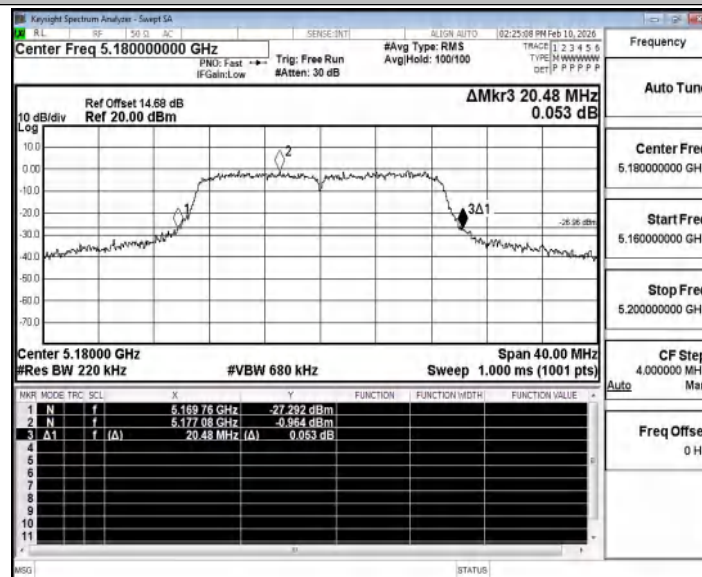
11A_Ant1_5200



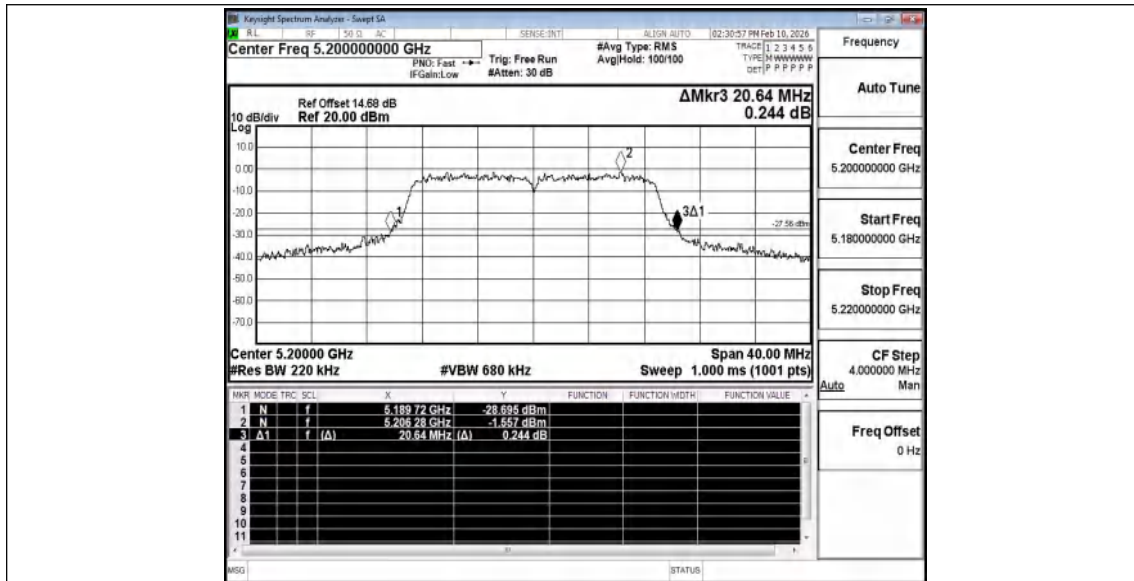
11A_Ant1_5240



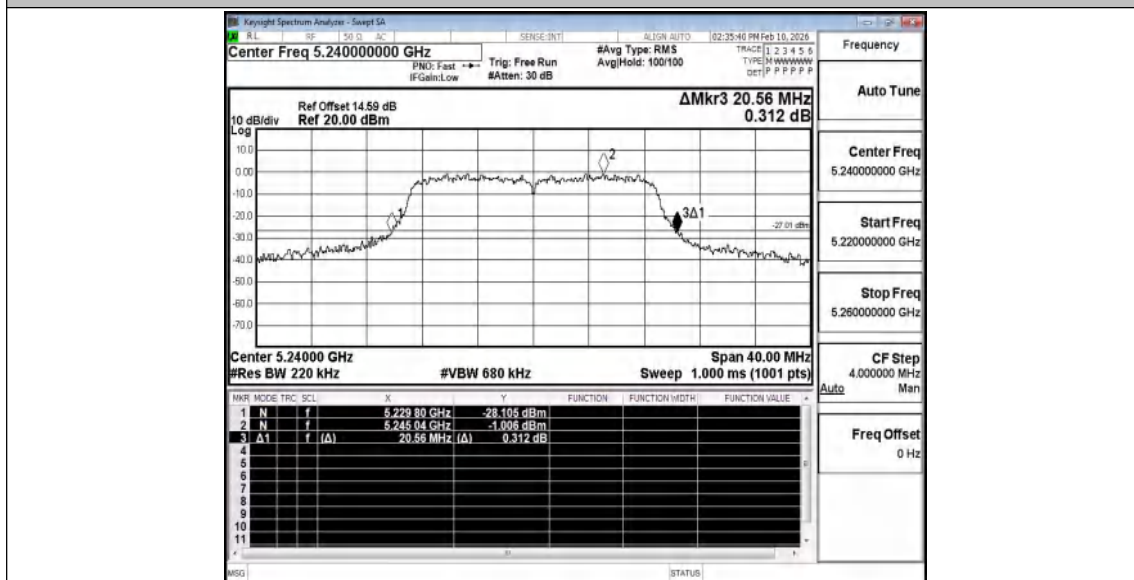
11N20SISO_Ant1_5180



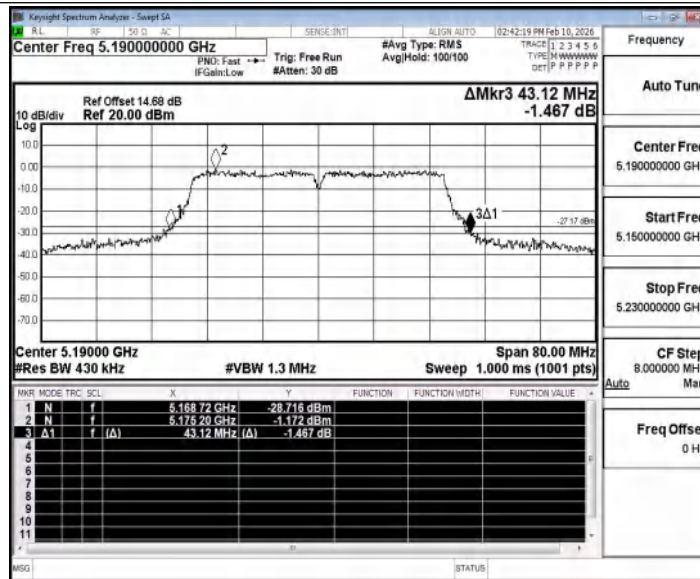
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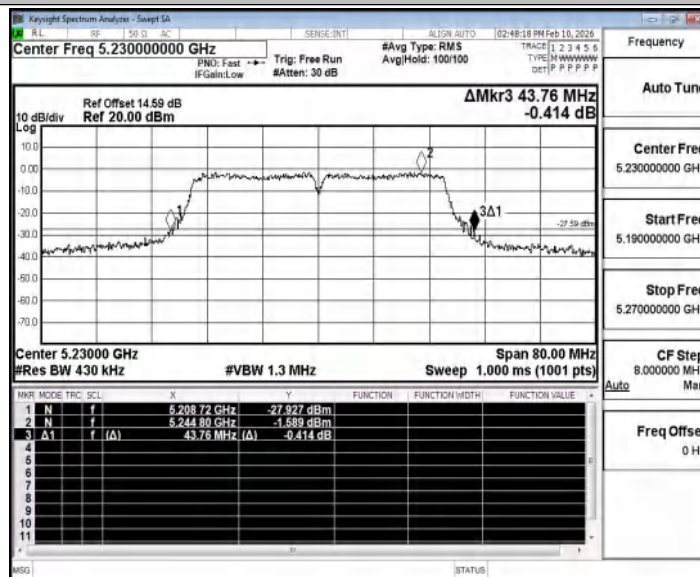
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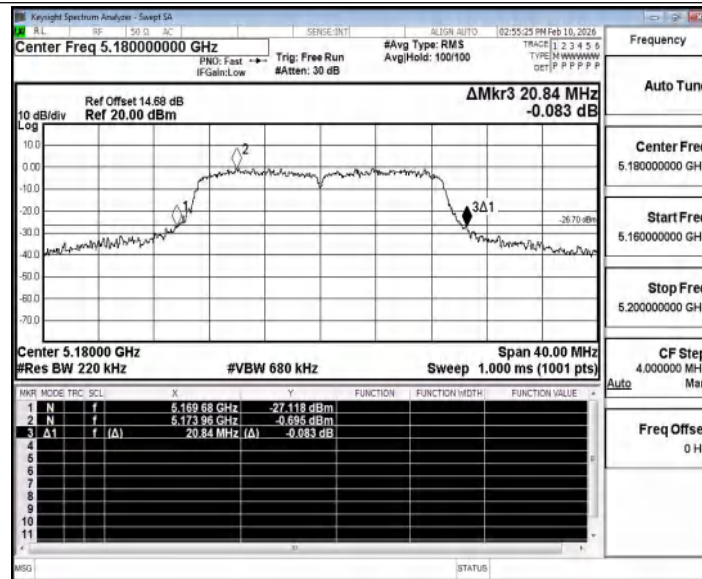
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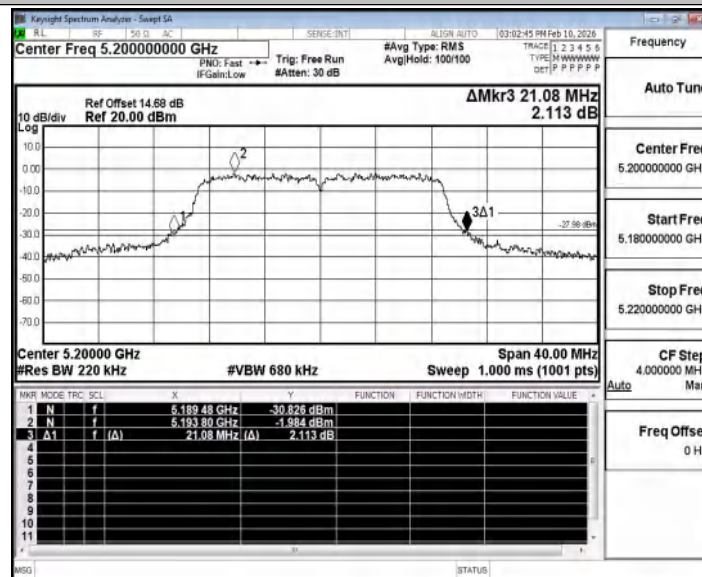
11N40SISO_Ant1_5230



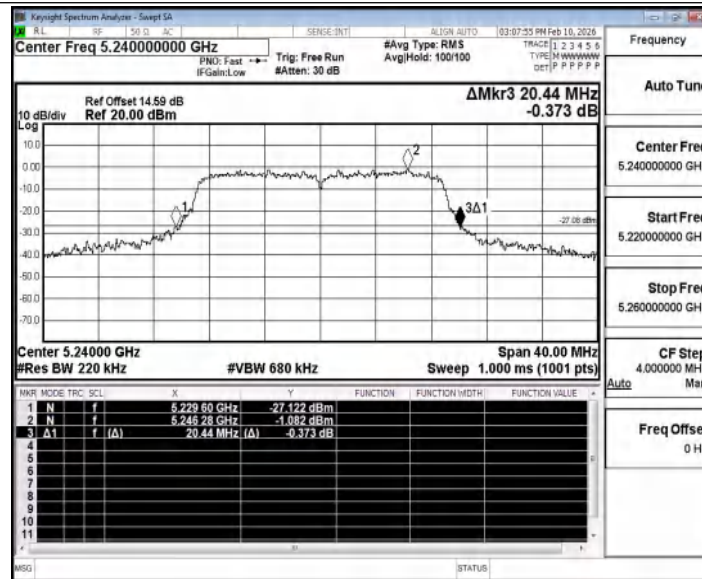
11AC20SISO_Ant1_5180



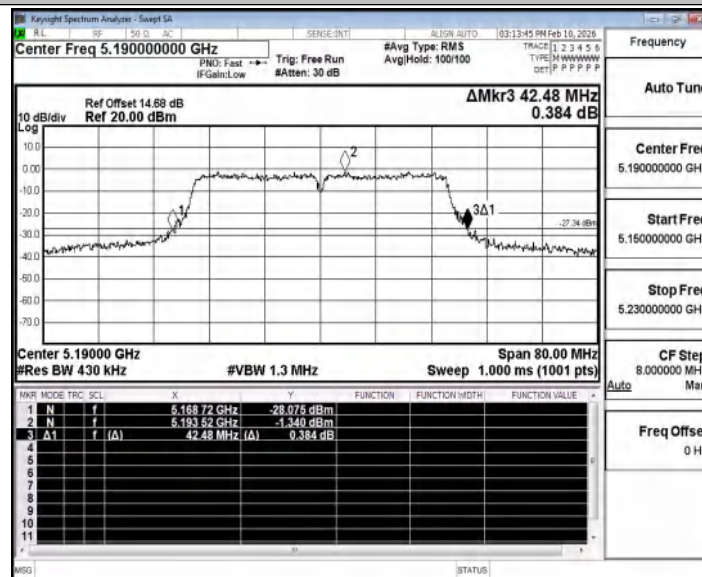
11AC20SISO_Ant1_5200



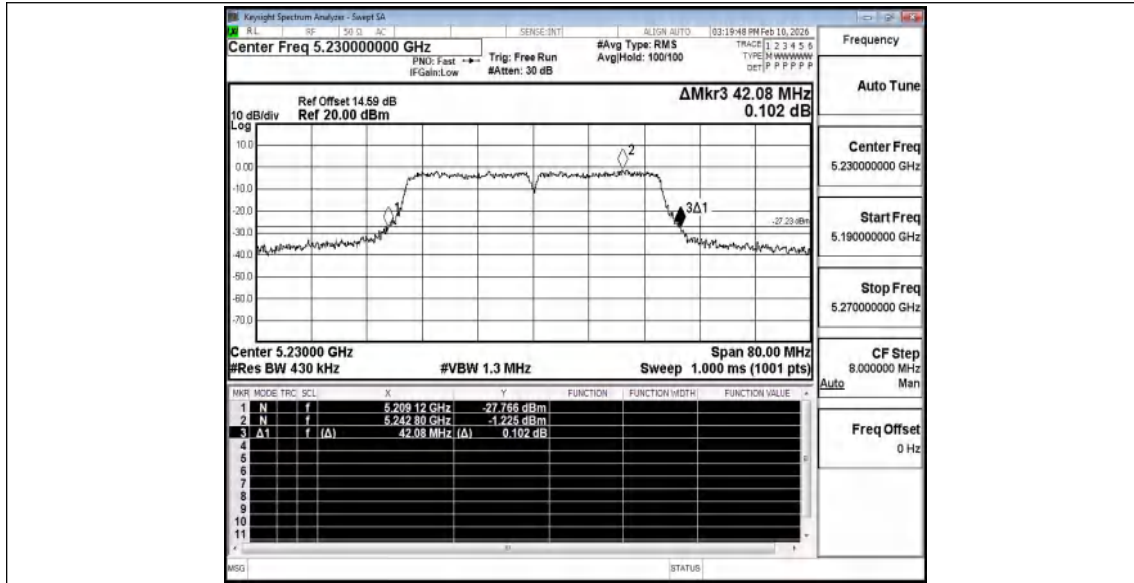
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



B.2 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	9.24	0.16	9.40	≤23.98	PASS
		5200	NA	9.57	0.16	9.73	≤23.98	PASS
		5240	NA	10.03	0.16	10.19	≤23.98	PASS
11N20SISO	Ant1	5180	NA	9.35	0.17	9.52	≤23.98	PASS
		5200	NA	9.35	0.17	9.52	≤23.98	PASS
		5240	NA	10.18	0.20	10.38	≤23.98	PASS
11N40SISO	Ant1	5190	NA	9.85	0.40	10.25	≤23.98	PASS
		5230	NA	10.16	0.33	10.49	≤23.98	PASS
11AC20SISO	Ant1	5180	NA	9.55	0.20	9.75	≤23.98	PASS
		5200	NA	9.41	0.17	9.58	≤23.98	PASS
		5240	NA	9.85	0.20	10.05	≤23.98	PASS
11AC40SISO	Ant1	5190	NA	9.61	0.40	10.01	≤23.98	PASS
		5230	NA	10.06	0.33	10.39	≤23.98	PASS

B.3 Maximum power spectral density

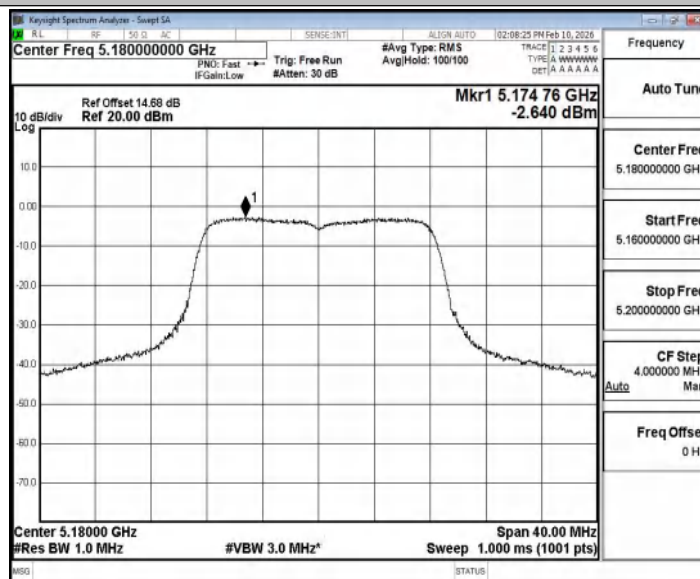
Test Result

TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	RBW Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-2.64	0.16	0.00	-2.48	≤11.00	PASS
		5200	-2.16	0.16	0.00	-2.00	≤11.00	PASS
		5240	-1.82	0.16	0.00	-1.66	≤11.00	PASS
11N20SISO	Ant1	5180	-2.93	0.17	0.00	-2.76	≤11.00	PASS
		5200	-2.76	0.17	0.00	-2.59	≤11.00	PASS
		5240	-2.22	0.20	0.00	-2.02	≤11.00	PASS
11N40SISO	Ant1	5190	-5.29	0.40	0.00	-4.89	≤11.00	PASS
		5230	-4.77	0.33	0.00	-4.44	≤11.00	PASS
11AC20SISO	Ant1	5180	-2.9	0.20	0.00	-2.70	≤11.00	PASS
		5200	-2.88	0.17	0.00	-2.71	≤11.00	PASS
		5240	-2.46	0.20	0.00	-2.26	≤11.00	PASS
11AC40SISO	Ant1	5190	-5.43	0.40	0.00	-5.03	≤11.00	PASS
		5230	-4.83	0.33	0.00	-4.50	≤11.00	PASS

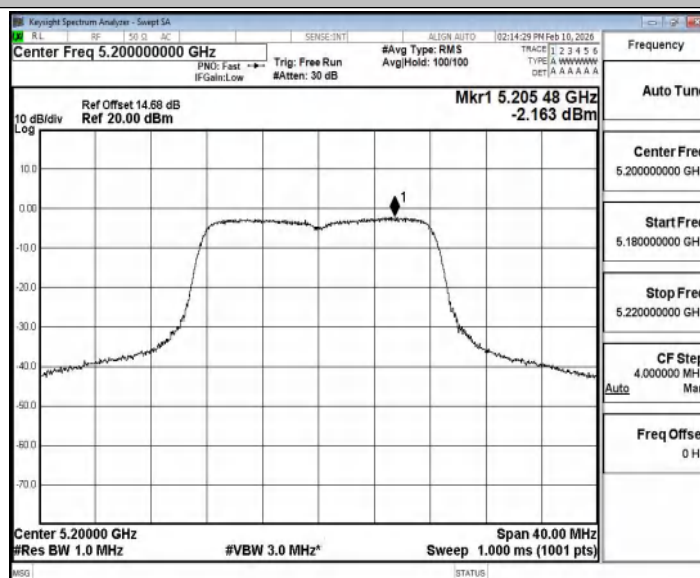
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

Test Graphs

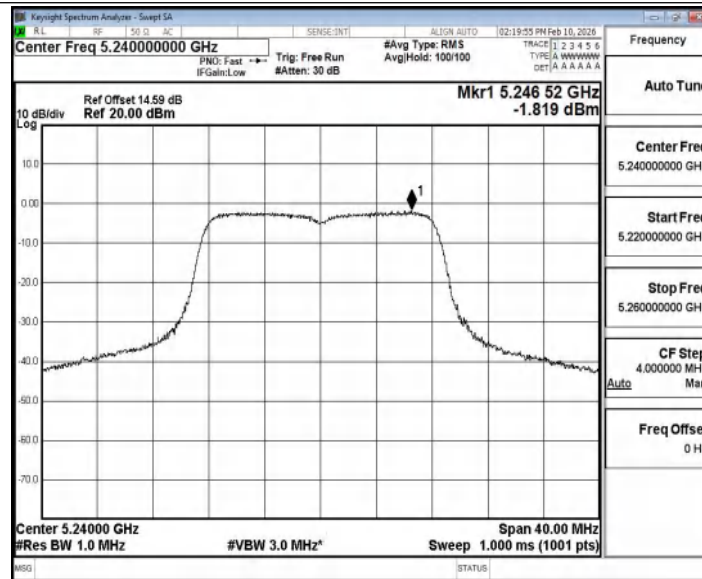
11A_Ant1_5180



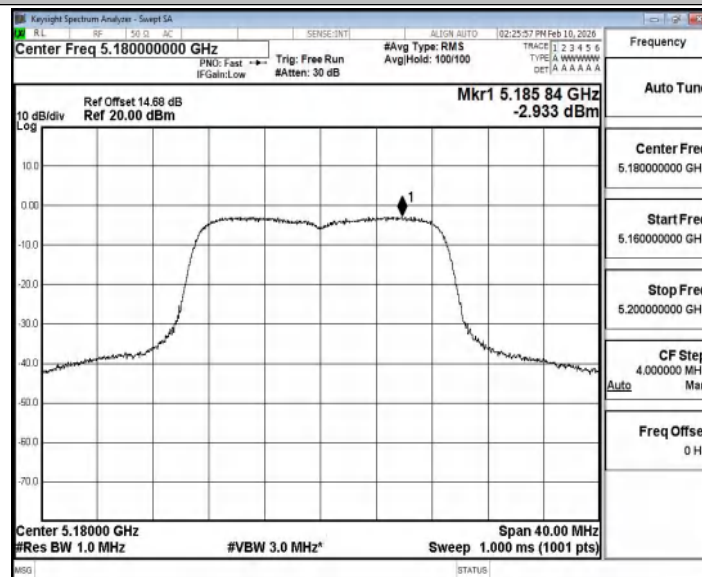
11A_Ant1_5200



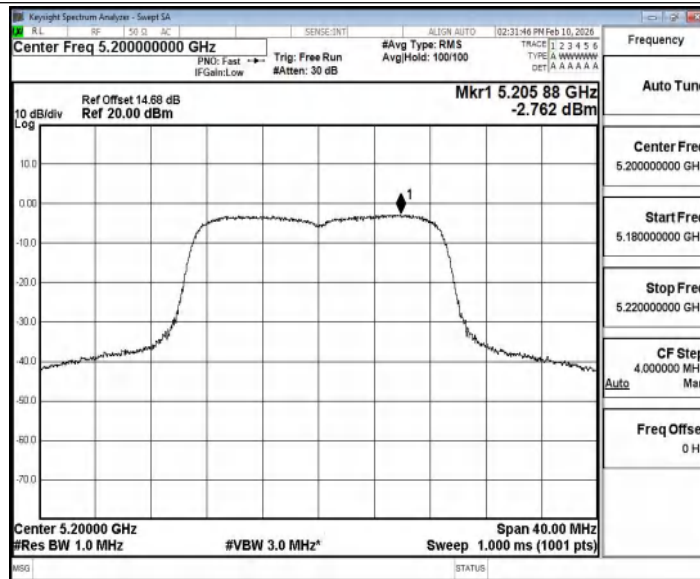
11A_Ant1_5240



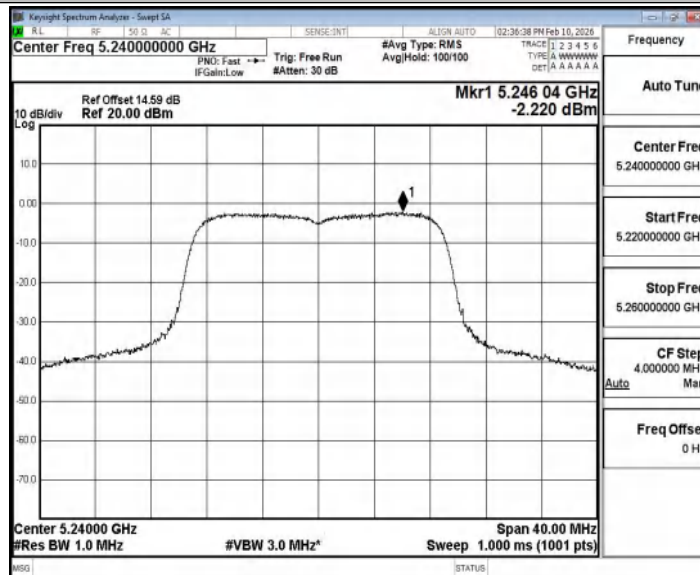
11N20SISO_Ant1_5180



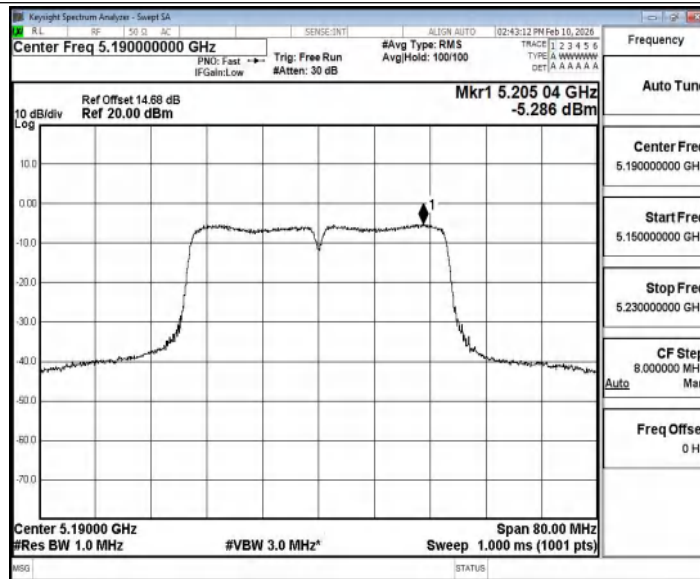
11N20SISO_Ant1_5200



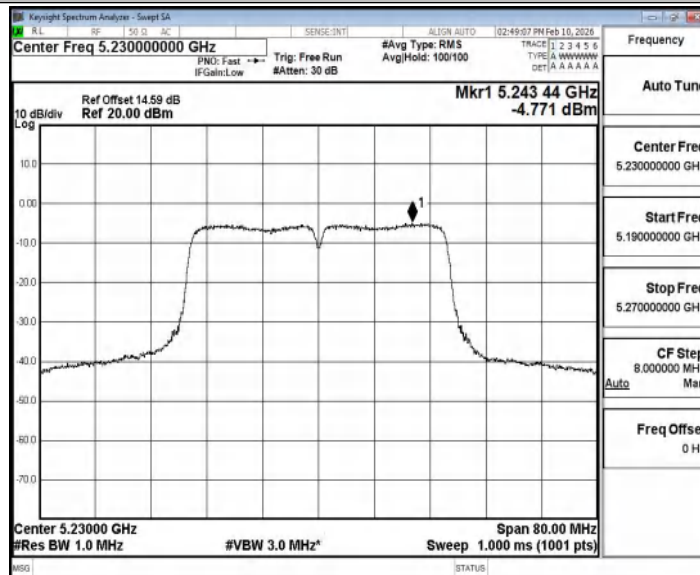
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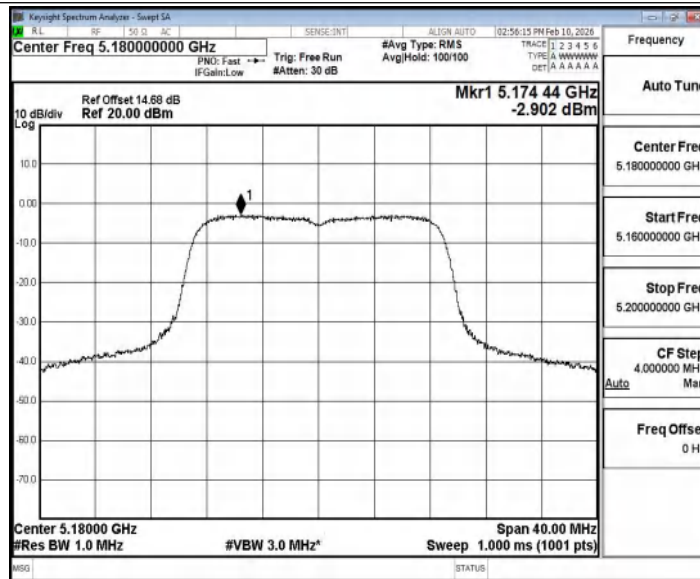
11N40SISO_Ant1_5190



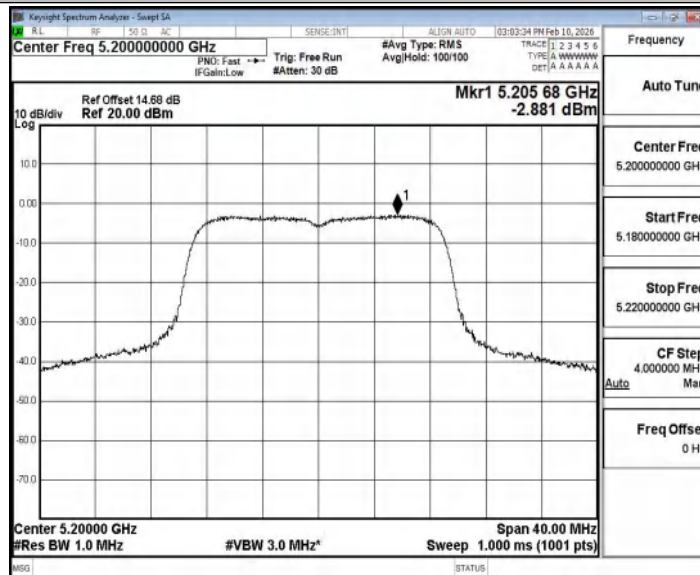
11N40SISO_Ant1_5230



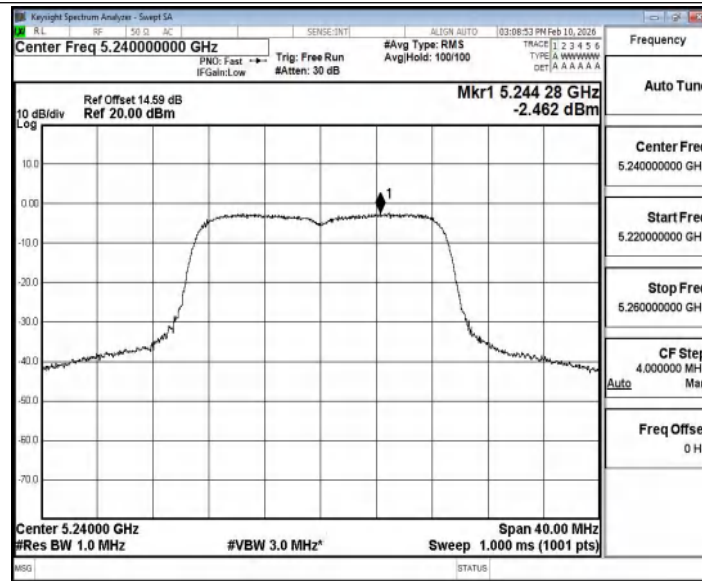
11AC20SISO_Ant1_5180



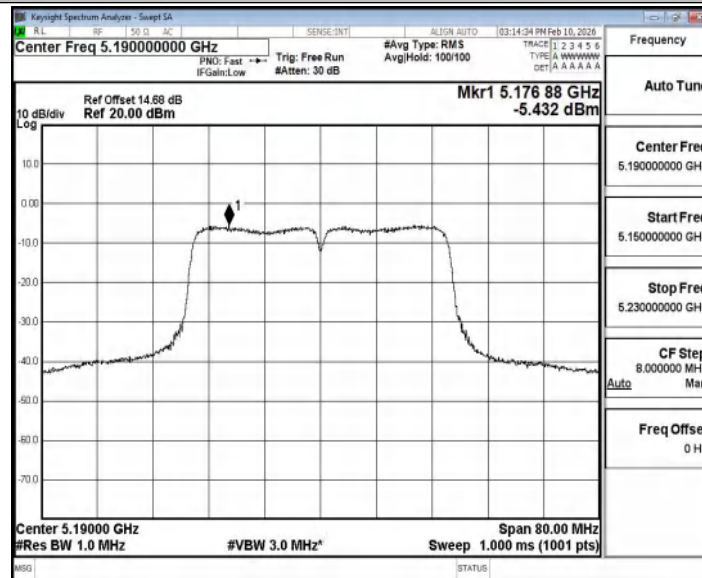
11AC20SISO_Ant1_5200



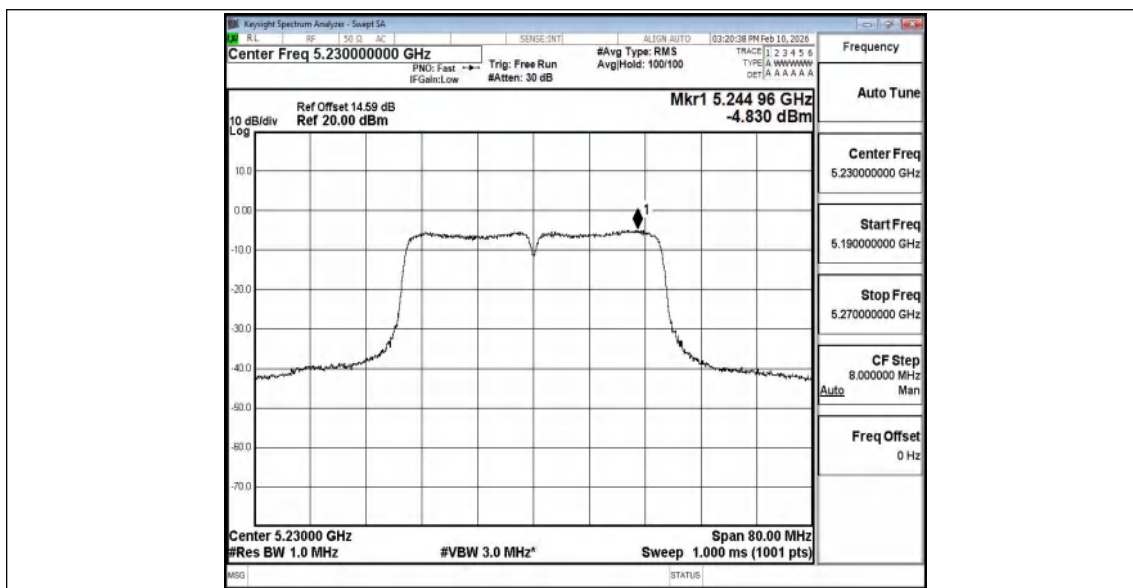
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



B.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-67.3	≤-43.96	2.00	0.16	30.09	≤54	PASS
				AV	5149.600	-60.4	≤-43.96	2.00	0.16	36.99	≤54	PASS
				AV	5150.000	-59.41	≤-43.96	2.00	0.16	37.98	≤54	PASS
				Peak	4500.000	-59.53	≤-23.80	2.00	0.00	37.70	≤68.2	PASS
				Peak	5149.600	-48.51	≤-23.80	2.00	0.00	48.72	≤68.2	PASS
				Peak	5150.000	-47.83	≤-23.80	2.00	0.00	49.40	≤68.2	PASS
		High	5240	AV	5350.000	-64.07	≤-43.96	2.00	0.16	33.32	≤54	PASS
				AV	5355.840	-62.86	≤-43.96	2.00	0.16	34.53	≤54	PASS
				AV	5460.000	-65.34	≤-43.96	2.00	0.16	32.05	≤54	PASS
				Peak	5350.000	-55.16	≤-23.80	2.00	0.00	42.07	≤68.2	PASS
				Peak	5366.880	-53.19	≤-23.80	2.00	0.00	44.04	≤68.2	PASS
				Peak	5460.000	-56.02	≤-23.80	2.00	0.00	41.21	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-67.38	≤-43.97	2.00	0.17	30.02	≤54	PASS
				AV	5149.600	-57.92	≤-43.97	2.00	0.17	39.48	≤54	PASS
				AV	5150.000	-58.49	≤-43.97	2.00	0.17	38.91	≤54	PASS
				Peak	4500.000	-57.57	≤-23.80	2.00	0.00	39.66	≤68.2	PASS
				Peak	5148.900	-47.36	≤-23.80	2.00	0.00	49.87	≤68.2	PASS
				Peak	5150.000	-48.23	≤-23.80	2.00	0.00	49.00	≤68.2	PASS
		High	5240	AV	5350.000	-63.77	≤-44.00	2.00	0.20	33.66	≤54	PASS
				AV	5363.040	-63.03	≤-44.00	2.00	0.20	34.40	≤54	PASS
				AV	5460.000	-64.85	≤-44.00	2.00	0.20	32.58	≤54	PASS
				Peak	5350.000	-56.12	≤-23.80	2.00	0.00	41.11	≤68.2	PASS
				Peak	5386.800	-52.97	≤-23.80	2.00	0.00	44.26	≤68.2	PASS
				Peak	5460.000	-57.35	≤-23.80	2.00	0.00	39.88	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-66.37	≤-44.20	2.00	0.40	31.26	≤54	PASS
				AV	5148.900	-48.04	≤-44.20	2.00	0.40	49.59	≤54	PASS
				AV	5150.000	-47.55	≤-44.20	2.00	0.40	50.08	≤54	PASS
				Peak	4500.000	-58.11	≤-23.80	2.00	0.00	39.12	≤68.2	PASS
				Peak	5149.600	-36.7	≤-23.80	2.00	0.00	60.53	≤68.2	PASS
				Peak	5150.000	-35.45	≤-23.80	2.00	0.00	61.78	≤68.2	PASS
		High	5230	AV	5350.000	-63.48	≤-44.13	2.00	0.33	34.08	≤54	PASS
				AV	5354.960	-63.08	≤-44.13	2.00	0.33	34.48	≤54	PASS
				AV	5460.000	-64.58	≤-44.13	2.00	0.33	32.98	≤54	PASS
				Peak	5350.000	-55.51	≤-23.80	2.00	0.00	41.72	≤68.2	PASS

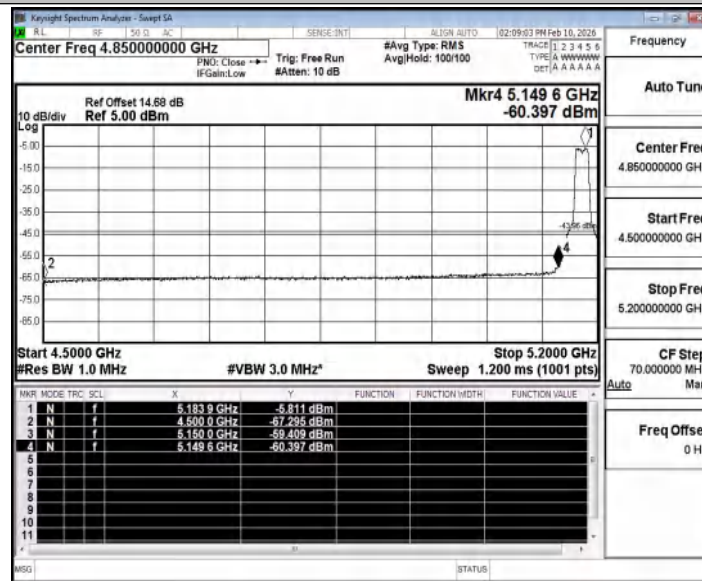
11AC20SISO	Ant1	Low	5180	Peak	5361.720	-53.43	≤-23.80	2.00	0.00	43.80	≤68.2	PASS
				Peak	5460.000	-56.92	≤-23.80	2.00	0.00	40.31	≤68.2	PASS
				AV	4500.000	-66.83	≤-44.00	2.00	0.20	30.60	≤54	PASS
				AV	5149.600	-58.27	≤-44.00	2.00	0.20	39.16	≤54	PASS
				AV	5150.000	-58.56	≤-44.00	2.00	0.20	38.87	≤54	PASS
				Peak	4500.000	-58.67	≤-23.80	2.00	0.00	38.56	≤68.2	PASS
				Peak	5148.900	-47.94	≤-23.80	2.00	0.00	49.29	≤68.2	PASS
				Peak	5150.000	-49.96	≤-23.80	2.00	0.00	47.27	≤68.2	PASS
		High	5240	AV	5350.000	-63.64	≤-44.00	2.00	0.20	33.79	≤54	PASS
				AV	5353.200	-62.5	≤-44.00	2.00	0.20	34.93	≤54	PASS
				AV	5460.000	-64.97	≤-44.00	2.00	0.20	32.46	≤54	PASS
				Peak	5350.000	-56.56	≤-23.80	2.00	0.00	40.67	≤68.2	PASS
				Peak	5351.280	-53.37	≤-23.80	2.00	0.00	43.86	≤68.2	PASS
				Peak	5460.000	-56.41	≤-23.80	2.00	0.00	40.82	≤68.2	PASS
11AC40SISO	Ant1	Low	5190	AV	4500.000	-67.23	≤-44.20	2.00	0.40	30.40	≤54	PASS
				AV	5149.600	-48.28	≤-44.20	2.00	0.40	49.35	≤54	PASS
				AV	5150.000	-47.93	≤-44.20	2.00	0.40	49.70	≤54	PASS
				Peak	4500.000	-58.38	≤-23.80	2.00	0.00	38.85	≤68.2	PASS
				Peak	5149.600	-34.57	≤-23.80	2.00	0.00	62.66	≤68.2	PASS
				Peak	5150.000	-34.71	≤-23.80	2.00	0.00	62.52	≤68.2	PASS
		High	5230	AV	5350.000	-63.38	≤-44.13	2.00	0.33	34.18	≤54	PASS
				AV	5351.060	-63.19	≤-44.13	2.00	0.33	34.37	≤54	PASS
				AV	5460.000	-65.18	≤-44.13	2.00	0.33	32.38	≤54	PASS
				Peak	5350.000	-56.35	≤-23.80	2.00	0.00	40.88	≤68.2	PASS
				Peak	5352.620	-54.03	≤-23.80	2.00	0.00	43.20	≤68.2	PASS
				Peak	5460.000	-56.75	≤-23.80	2.00	0.00	40.48	≤68.2	PASS

Note:

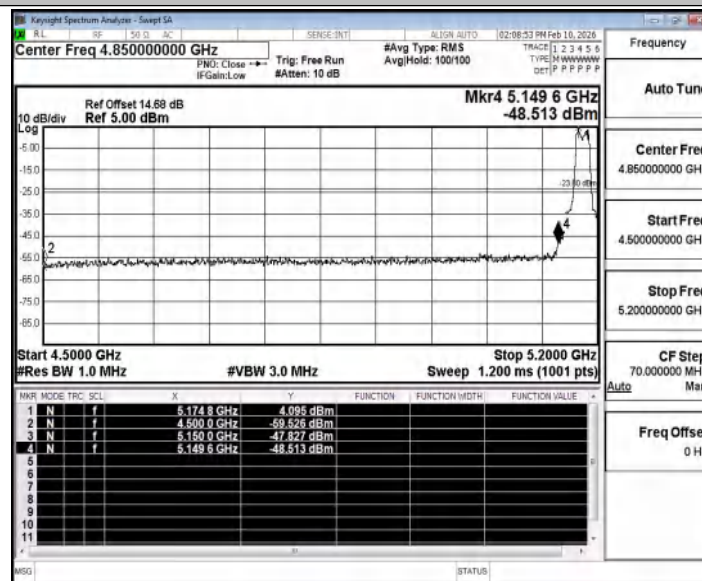
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

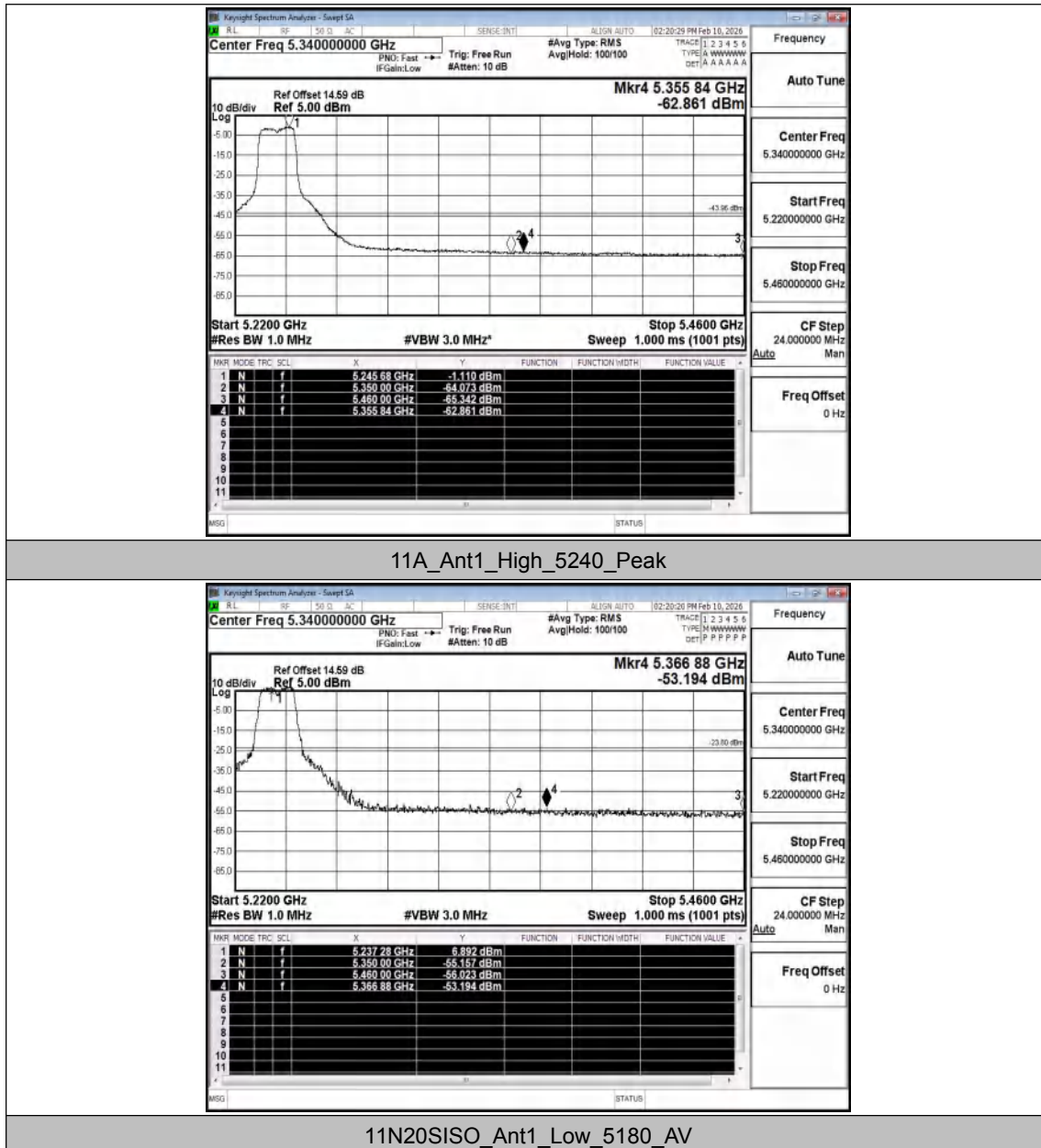
11A_Ant1_Low_5180_AV

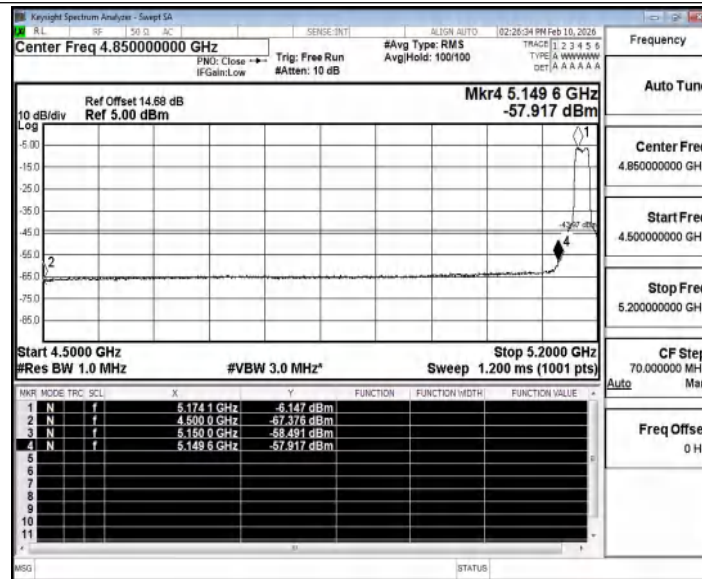


11A_Ant1_Low_5180_Peak

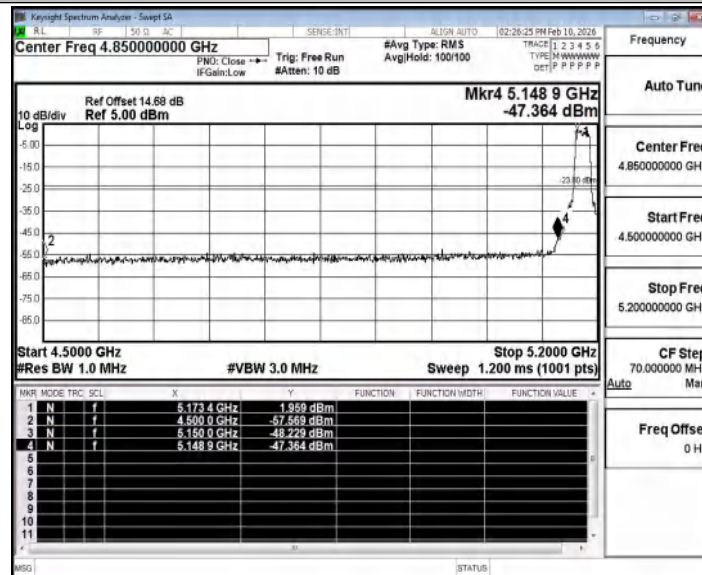


11A_Ant1_High_5240_AV

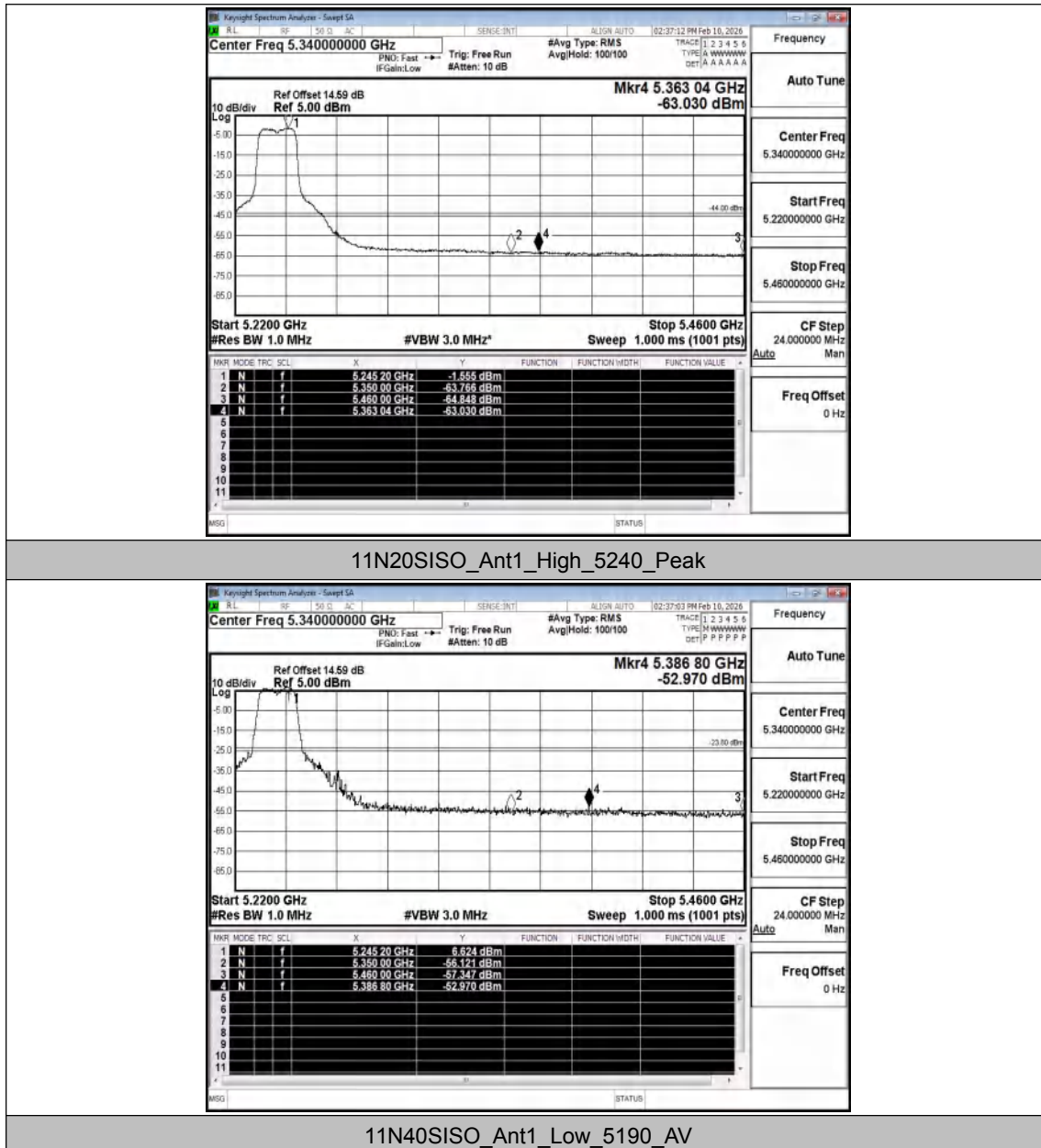


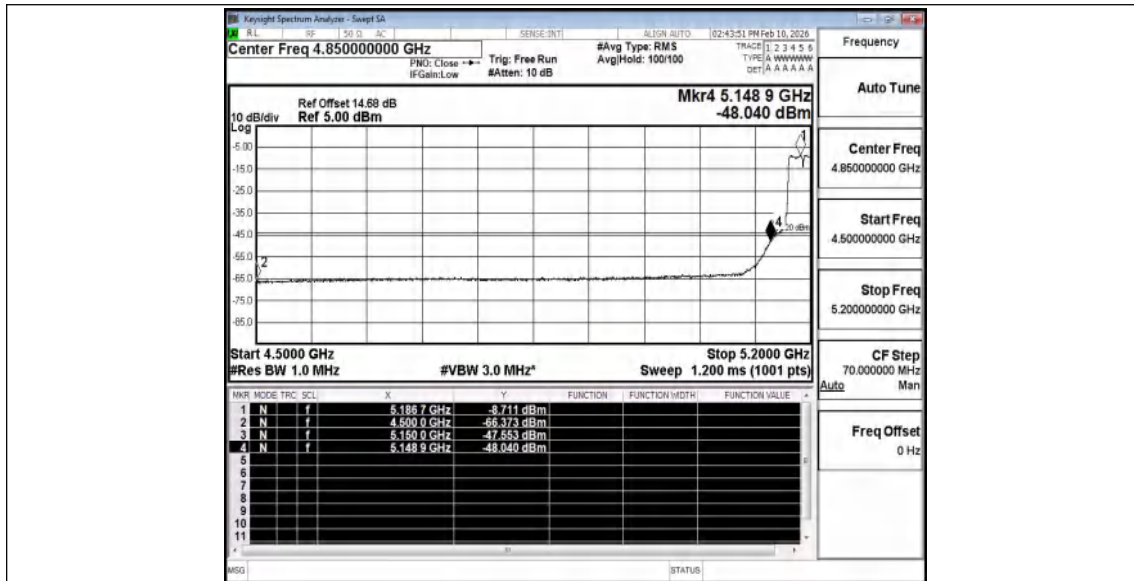


11N20SISO_Ant1_Low_5180_Peak

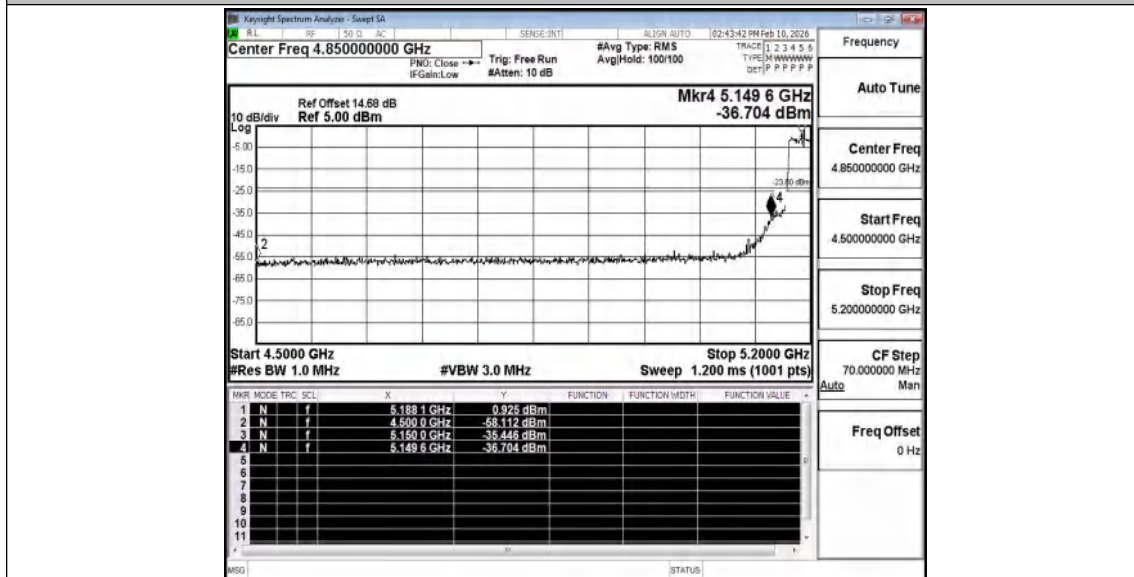


11N20SISO_Ant1_High_5240_AV

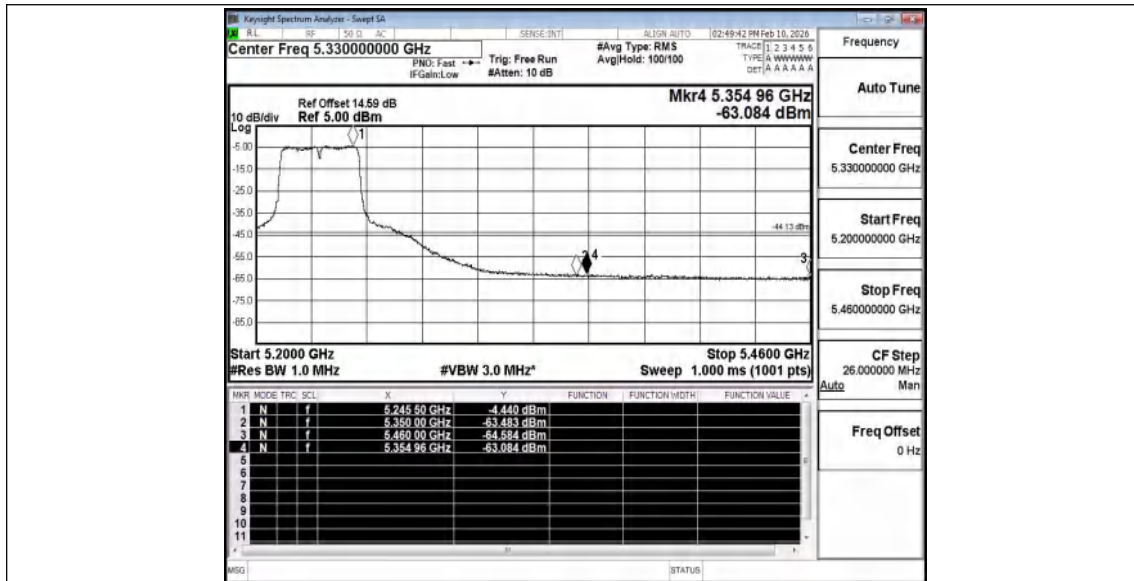




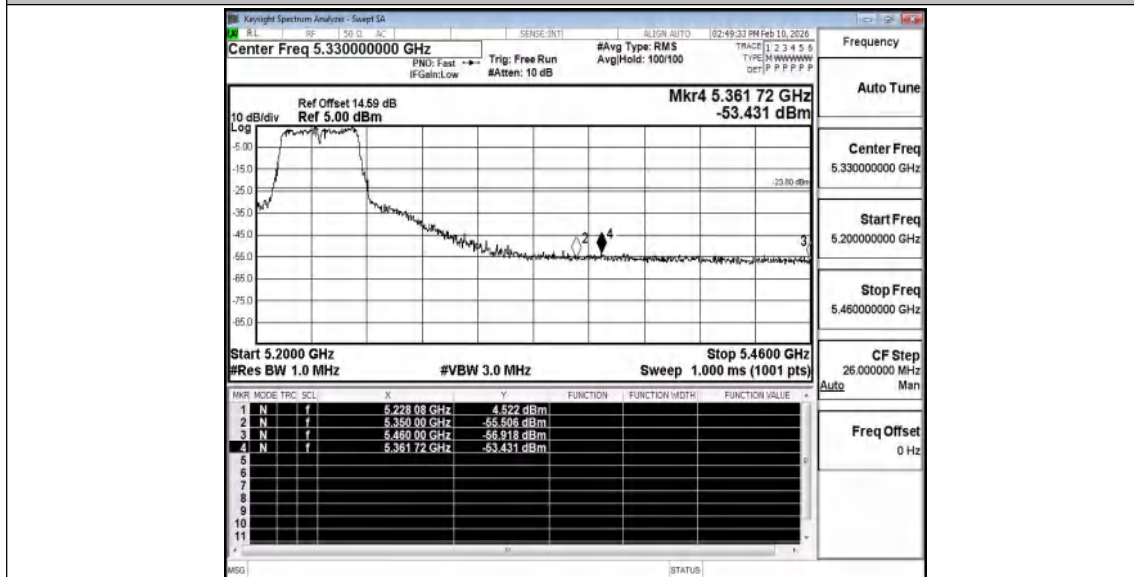
11N40SISO_Ant1_Low_5190_Peak



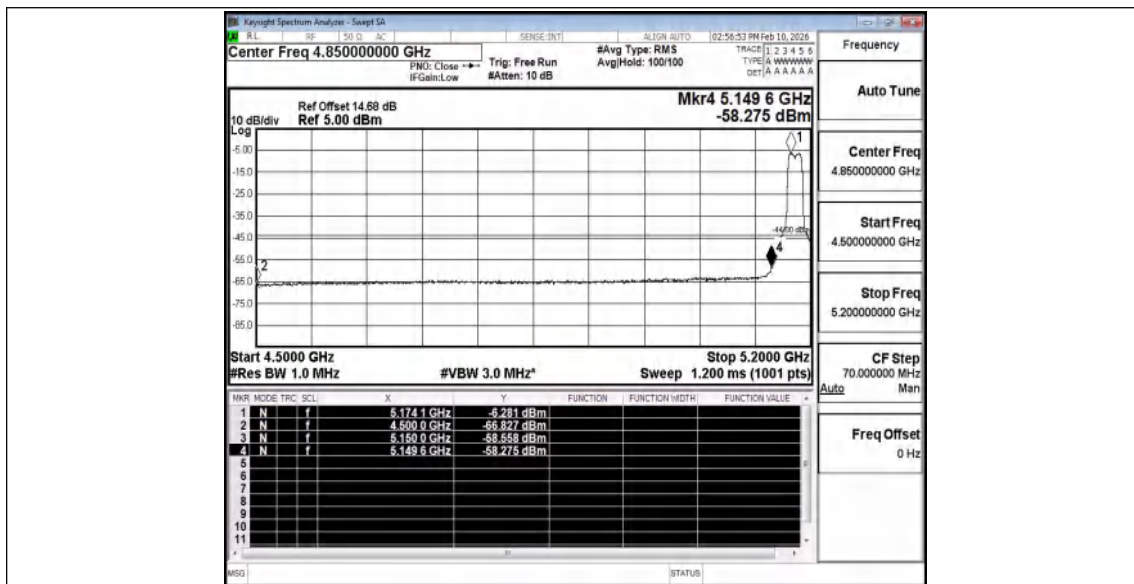
11N40SISO_Ant1_High_5230_AV



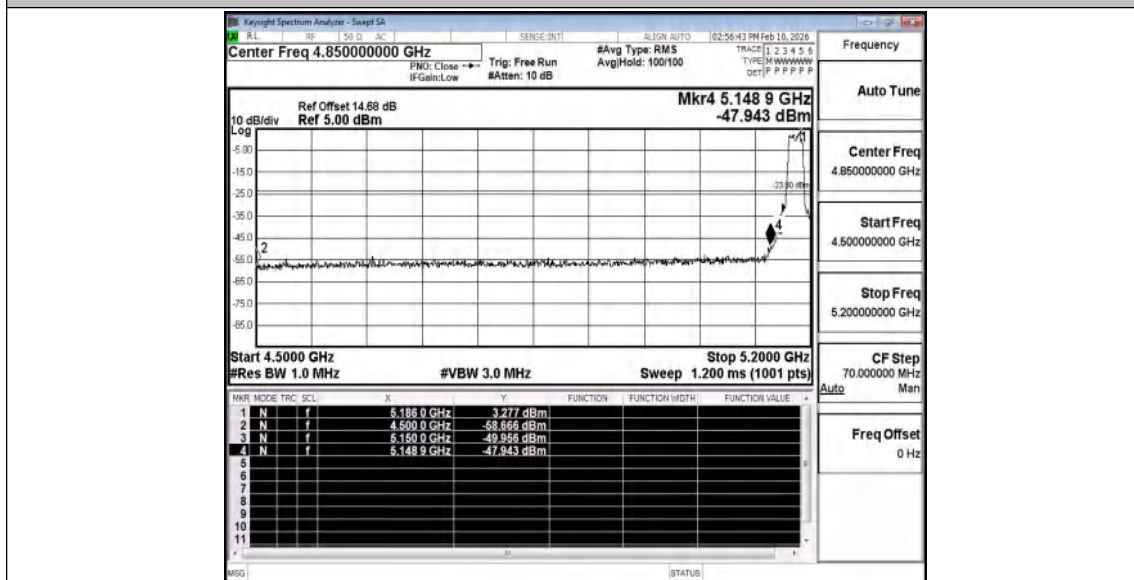
11N40SISO_Ant1_High_5230_Peak



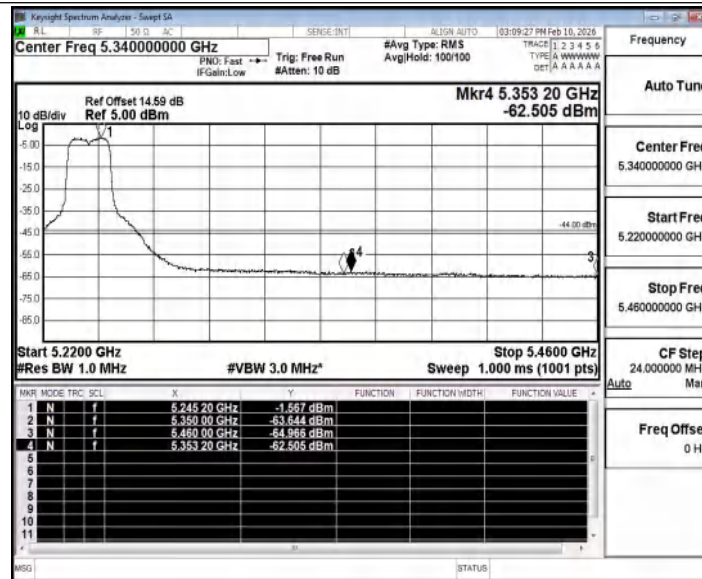
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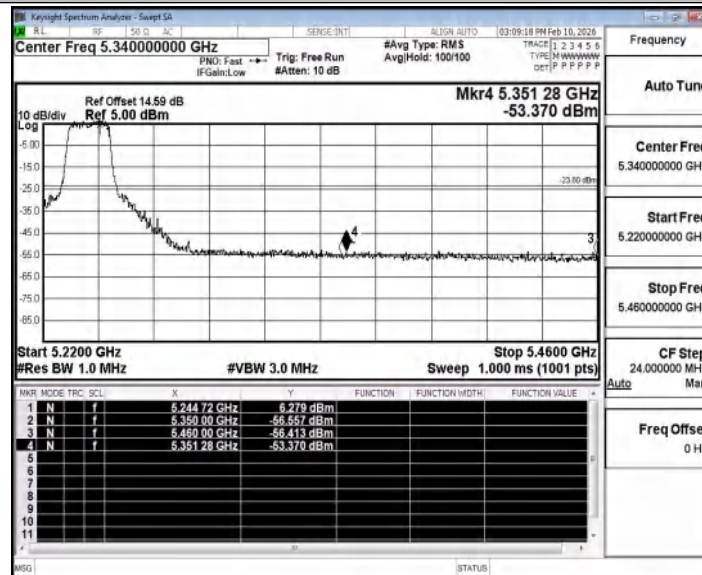
11AC20SISO_Ant1_Low_5180_Peak



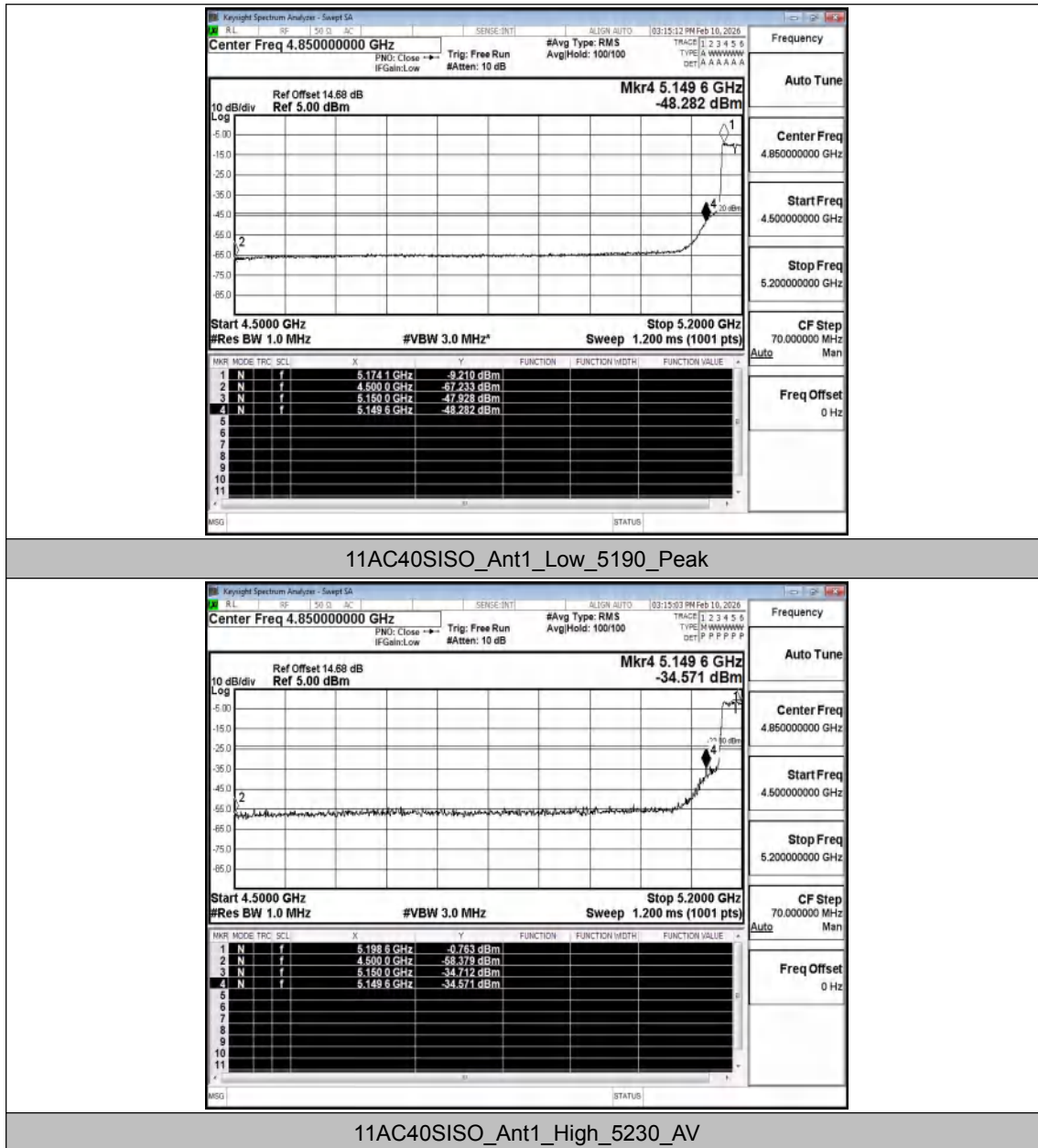
11AC20SISO_Ant1_High_5240_AV

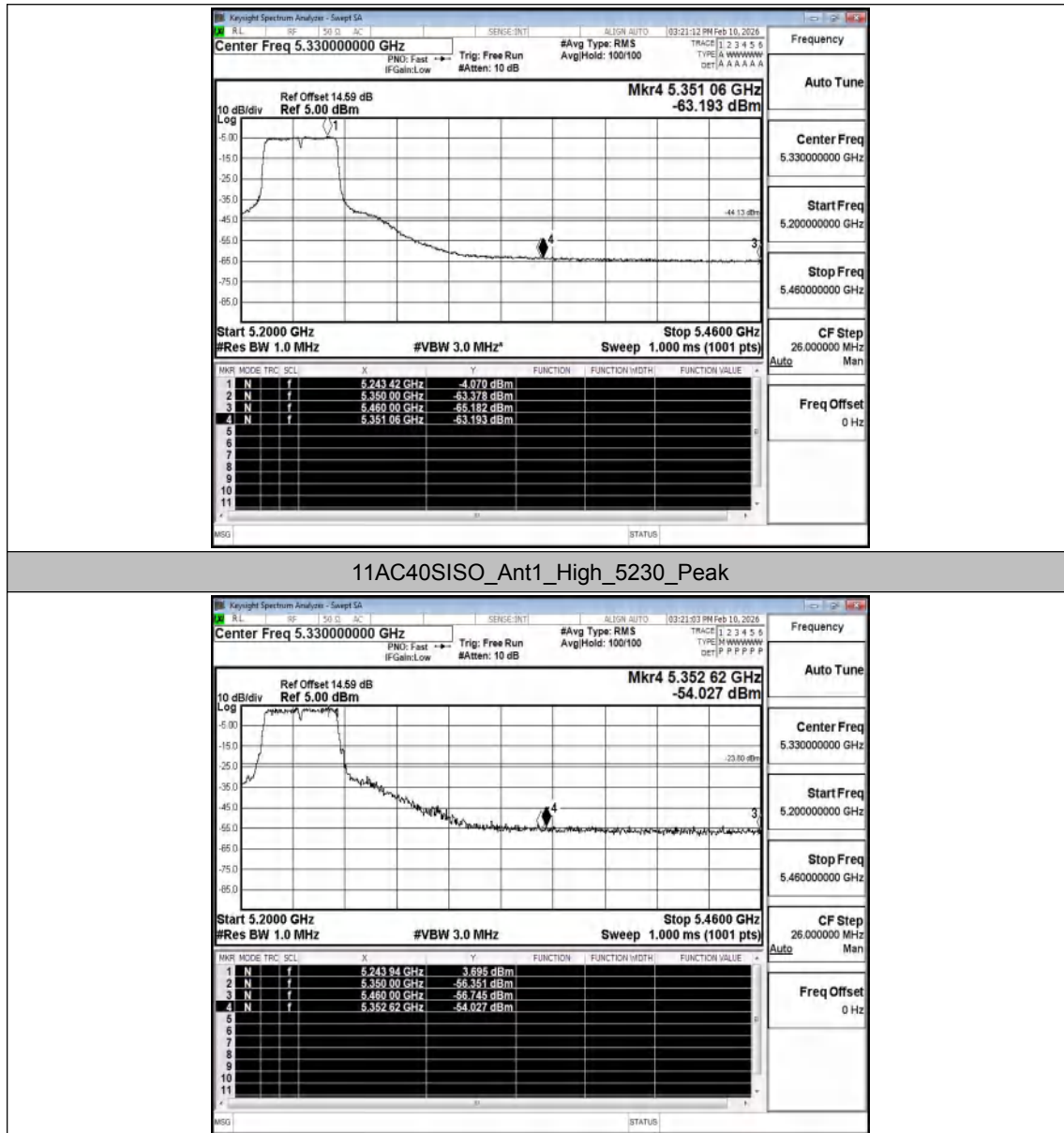


11AC20SISO_Ant1_High_5240_Peak



11AC40SISO_Ant1_Low_5190_AV





B.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Freq(M Hz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
		5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	20000.00	3.846154	20	PASS

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		5240	HV	NT	20000.00	3.846154	20	PASS
			NV	NT	20000.00	3.816794	20	PASS
			LV	NT	20000.00	3.816794	20	PASS
			HV	NT	40000.00	7.633588	20	PASS
11N20SI SO	Ant1	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	40000.00	7.722008	20	PASS
			HV	NT	20000.00	3.861004	20	PASS
		5200	NV	NT	20000.00	3.846154	20	PASS
			LV	NT	40000.00	7.692308	20	PASS
			HV	NT	40000.00	7.692308	20	PASS
		5240	NV	NT	20000.00	3.816794	20	PASS
			LV	NT	40000.00	7.633588	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
11N40SI SO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
		5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	40000.00	7.648184	20	PASS
11AC20S ISO	Ant1	5180	NV	NT	20000.00	3.861004	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	40000.00	7.722008	20	PASS
		5200	NV	NT	40000.00	7.692308	20	PASS
			LV	NT	40000.00	7.692308	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
		5240	NV	NT	40000.00	7.633588	20	PASS
			LV	NT	40000.00	7.633588	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
11AC40S ISO	Ant1	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	40000.00	7.707129	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
		5230	NV	NT	40000.00	7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	40000.00	7.648184	20	PASS

Temperature								
TestMode	Antenna	Freq(M Hz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	20000.00	3.861004	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	20000.00	3.861004	20	PASS

			NV	0	20000.00	3.861004	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	20000.00	3.861004	20	PASS
		5200	NV	-30	20000.00	3.846154	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	40000.00	7.692308	20	PASS
			NV	40	20000.00	3.846154	20	PASS
			NV	50	40000.00	7.692308	20	PASS
		5240	NV	-30	20000.00	3.816794	20	PASS
			NV	-20	20000.00	3.816794	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	20000.00	3.816794	20	PASS
			NV	50	20000.00	3.816794	20	PASS
11N20SI SO	Ant1	5180	NV	-30	20000.00	3.861004	20	PASS
			NV	-20	40000.00	7.722008	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	40000.00	7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	40000.00	7.722008	20	PASS
		5200	NV	-30	40000.00	7.692308	20	PASS
			NV	-20	40000.00	7.692308	20	PASS
			NV	-10	40000.00	7.692308	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	40000.00	7.692308	20	PASS
			NV	40	40000.00	7.692308	20	PASS

		5240	NV	50	20000.00	3.846154	20	PASS
			NV	-30	20000.00	3.816794	20	PASS
			NV	-20	40000.00	7.633588	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	40000.00	7.633588	20	PASS
			NV	20	40000.00	7.633588	20	PASS
			NV	30	40000.00	7.633588	20	PASS
			NV	40	20000.00	3.816794	20	PASS
			NV	50	20000.00	3.816794	20	PASS
11N40SI SO	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	50	40000.00	7.707129	20	PASS
		5230	NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
			NV	50	40000.00	7.648184	20	PASS
11AC20S ISO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.861004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	40000.00	7.722008	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	20000.00	3.861004	20	PASS
		5200	NV	-30	40000.00	7.692308	20	PASS
			NV	-20	40000.00	7.692308	20	PASS
			NV	-10	40000.00	7.692308	20	PASS
			NV	0	20000.00	3.846154	20	PASS
			NV	50	20000.00	3.846154	20	PASS

			NV	10	20000.00	3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	40000.00	7.692308	20	PASS
			NV	50	20000.00	3.846154	20	PASS
		5240	NV	-30	40000.00	7.633588	20	PASS
			NV	-20	20000.00	3.816794	20	PASS
			NV	-10	20000.00	3.816794	20	PASS
			NV	0	40000.00	7.633588	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	20000.00	3.816794	20	PASS
			NV	40	40000.00	7.633588	20	PASS
			NV	50	20000.00	3.816794	20	PASS
11AC40S ISO	Ant1	5190	NV	-30	40000.00	7.707129	20	PASS
			NV	-20	40000.00	7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	40000.00	7.707129	20	PASS
			NV	10	40000.00	7.707129	20	PASS
			NV	20	40000.00	7.707129	20	PASS
			NV	30	40000.00	7.707129	20	PASS
			NV	40	40000.00	7.707129	20	PASS
			NV	50	40000.00	7.707129	20	PASS
		5230	NV	-30	40000.00	7.648184	20	PASS
			NV	-20	40000.00	7.648184	20	PASS
			NV	-10	40000.00	7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	40000.00	7.648184	20	PASS
			NV	20	40000.00	7.648184	20	PASS
			NV	30	40000.00	7.648184	20	PASS
			NV	40	40000.00	7.648184	20	PASS
			NV	50	40000.00	7.648184	20	PASS

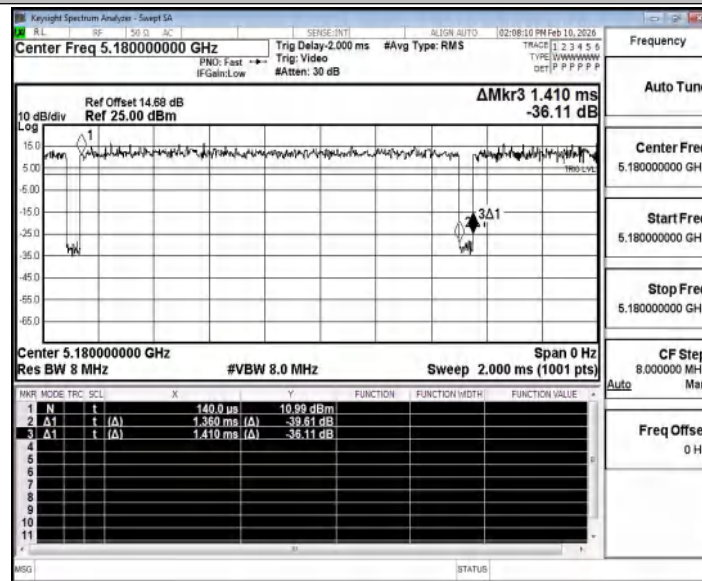
B.6 Duty Cycle

Test Result

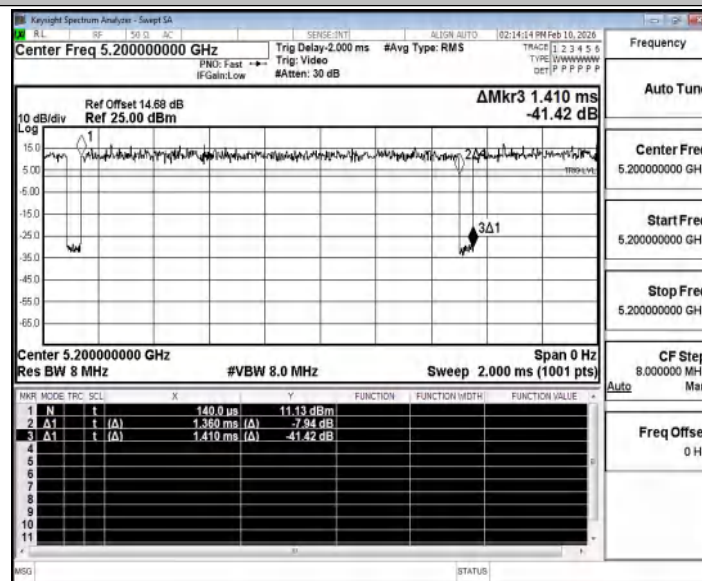
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	Limit	Verdict
11A	Ant1	5180	1.36	1.41	96.45	0.16	---	---
		5200	1.36	1.41	96.45	0.16	---	---
		5240	1.36	1.41	96.45	0.16	---	---
11N20SISO	Ant1	5180	1.28	1.33	96.24	0.17	---	---
		5200	1.28	1.33	96.24	0.17	---	---
		5240	1.27	1.33	95.49	0.20	---	---
11N40SISO	Ant1	5190	0.63	0.69	91.30	0.40	---	---
		5230	0.63	0.68	92.65	0.33	---	---
11AC20SISO	Ant1	5180	1.27	1.33	95.49	0.20	---	---
		5200	1.27	1.32	96.21	0.17	---	---
		5240	1.27	1.33	95.49	0.20	---	---
11AC40SISO	Ant1	5190	0.63	0.69	91.30	0.40	---	---
		5230	0.64	0.69	92.75	0.33	---	---

Test Graphs

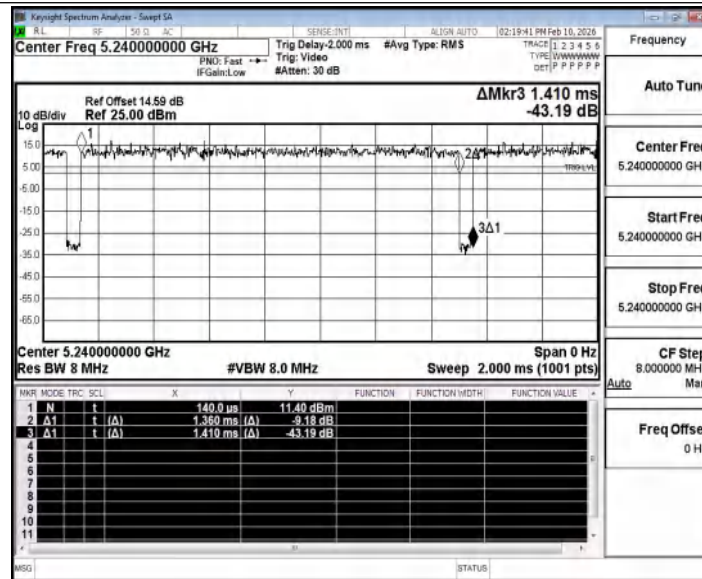
11A_Ant1_5180



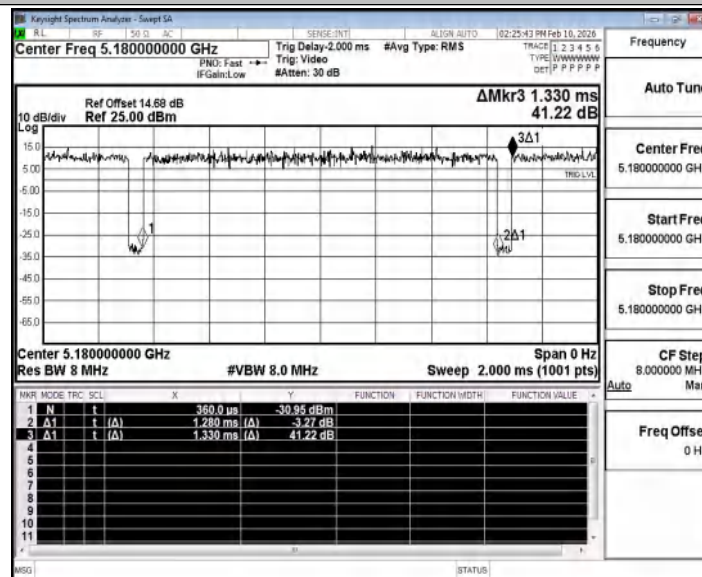
11A_Ant1_5200



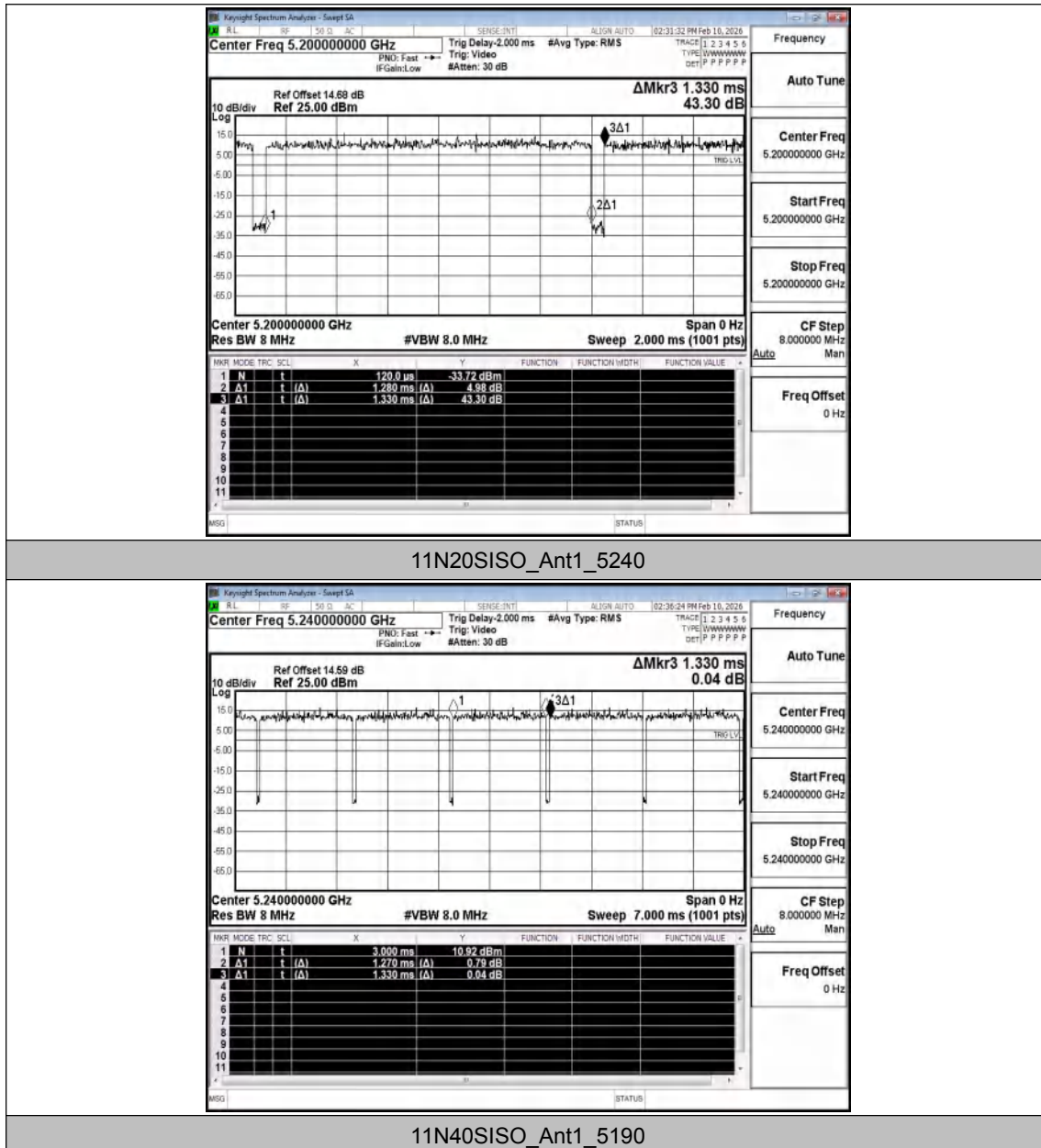
11A_Ant1_5240

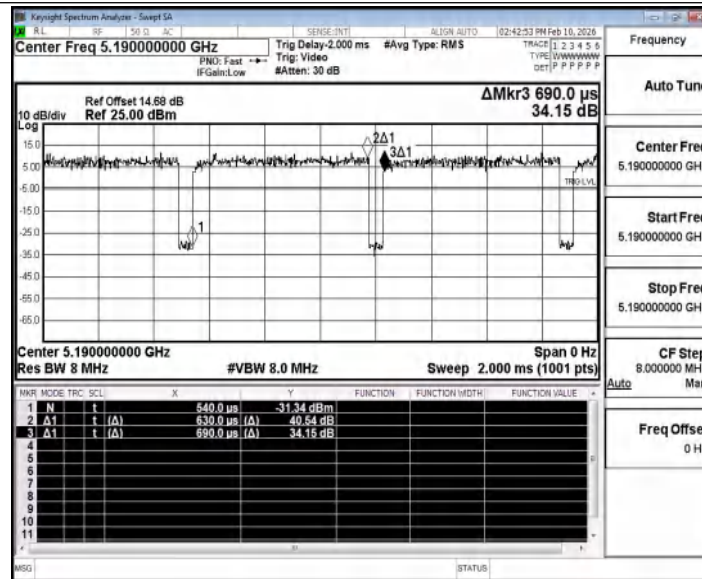


11N20SISO_Ant1_5180

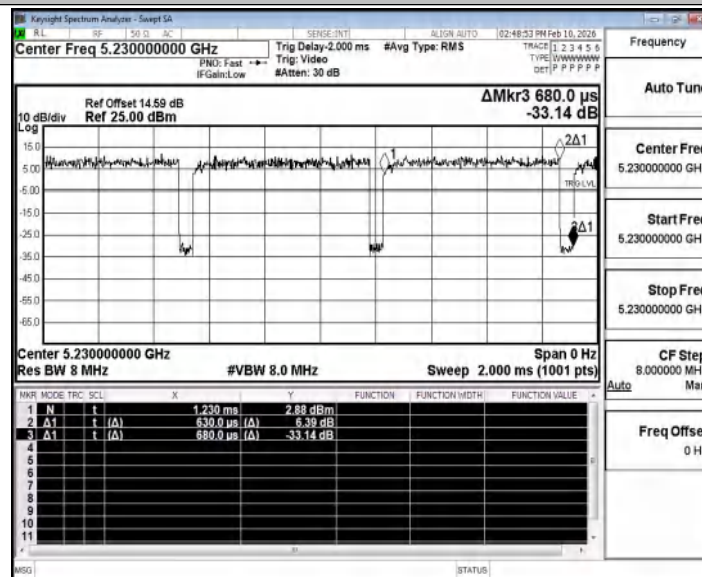


11N20SISO_Ant1_5200

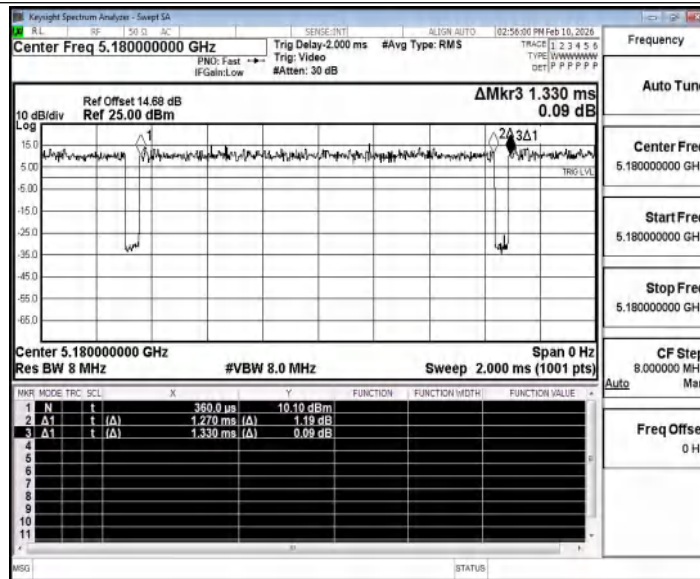




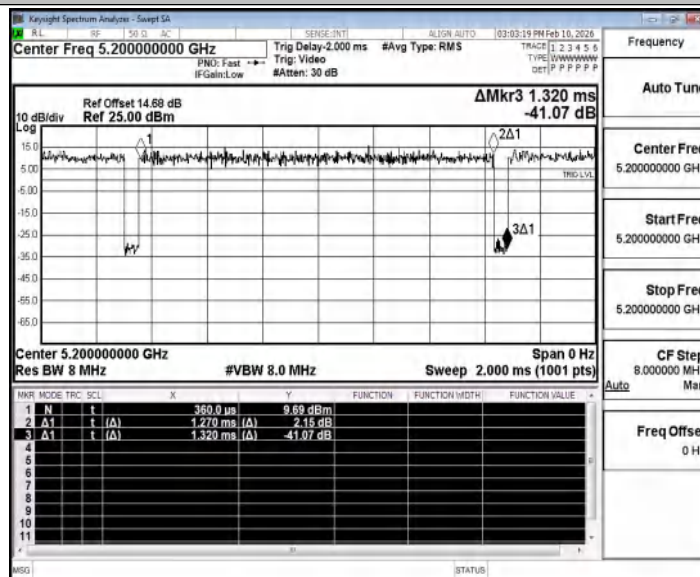
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240

