

Appendix B

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: LCD Monitor

Test Model: 850-277216

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Yongzhou Huang
Supervised by:	Fengliu Tang

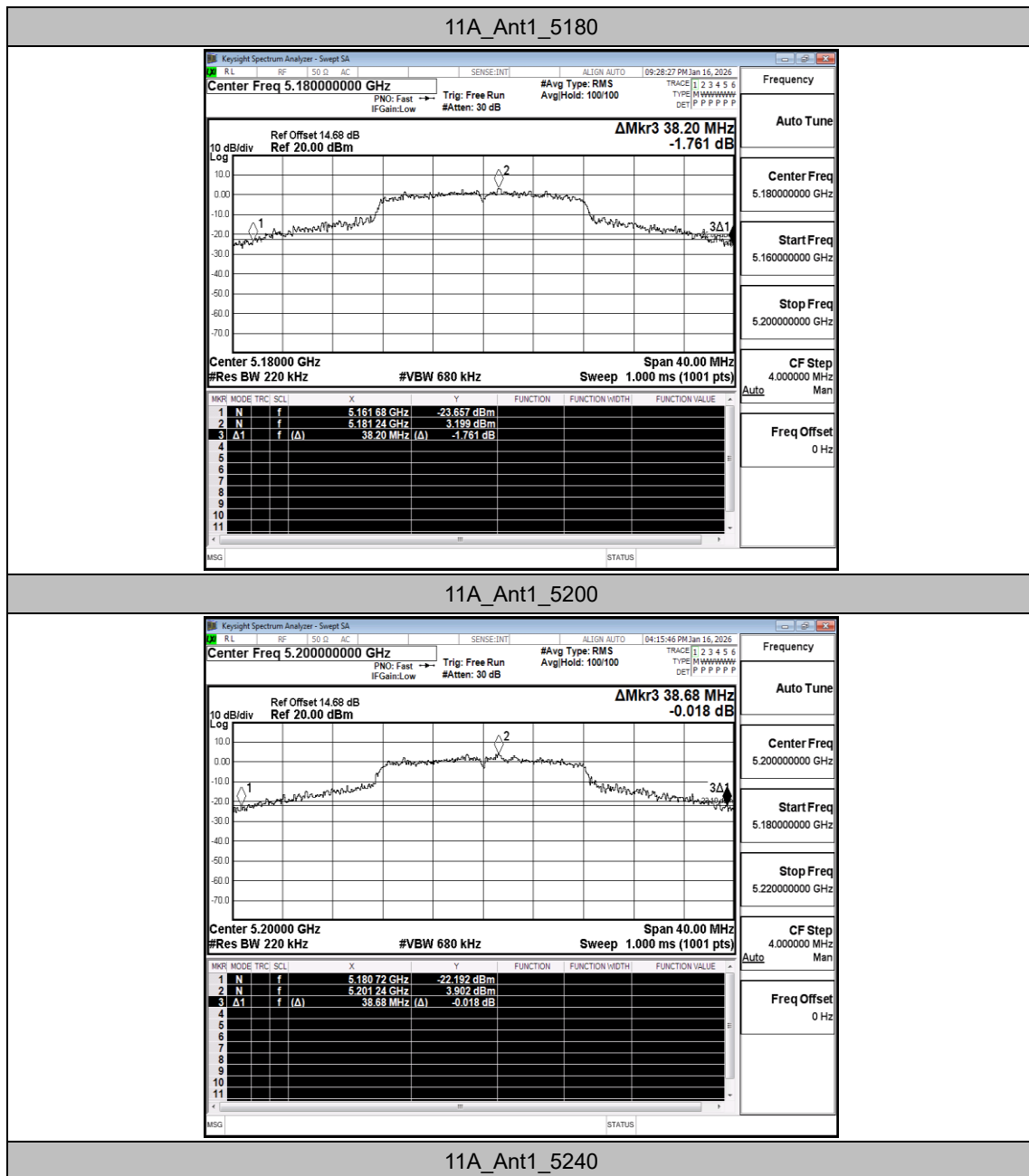
B.1 Emission Bandwidth

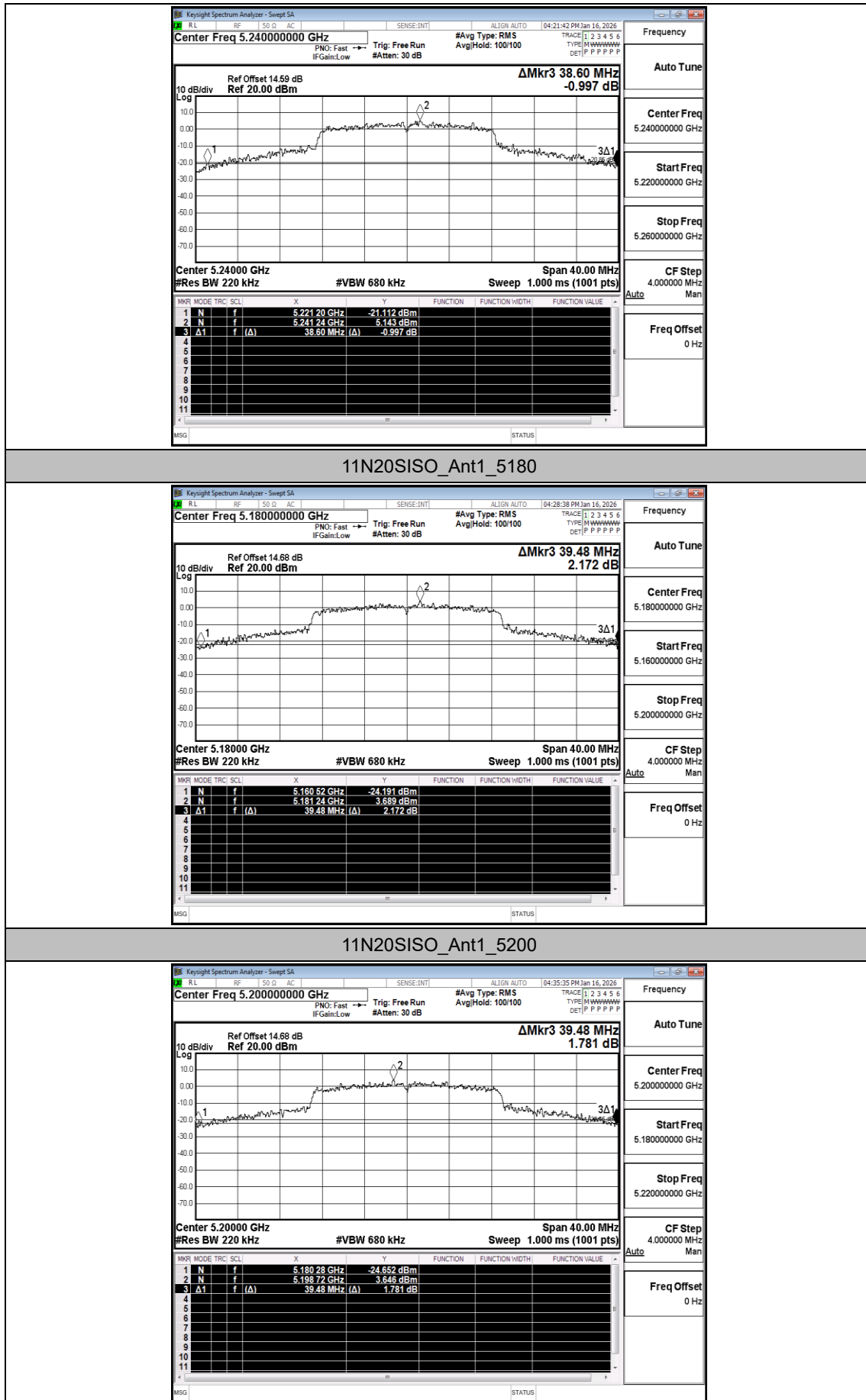
Test Result

TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	38.200	5161.680	5199.880	---	---
		5200	38.680	5180.720	5219.400	---	---
		5240	38.600	5221.200	5259.800	---	---
11N20SISO	Ant1	5180	39.480	5160.520	5200.000	---	---
		5200	39.480	5180.280	5219.760	---	---
		5240	39.280	5220.720	5260.000	---	---
11N40SISO	Ant1	5190	80.000	5150.000	5230.000	---	---
		5230	79.520	5190.480	5270.000	---	---
11AC20SISO	Ant1	5180	39.680	5160.320	5200.000	---	---
		5200	39.920	5180.080	5220.000	---	---
		5240	39.840	5220.160	5260.000	---	---
11AC40SISO	Ant1	5190	80.000	5150.000	5230.000	---	---
		5230	79.600	5190.400	5270.000	---	---
11AC80SISO	Ant1	5210	159.840	5130.160	5290.000	---	---

Note: offset=System attenuation +cabel loss

Test Graphs



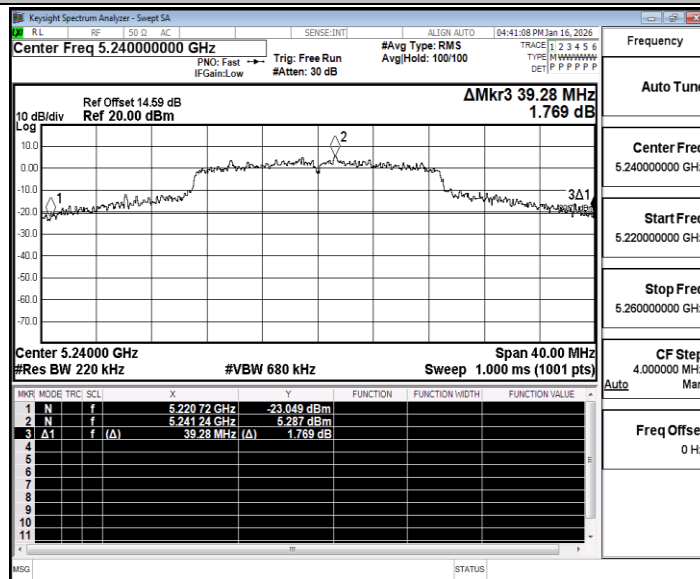


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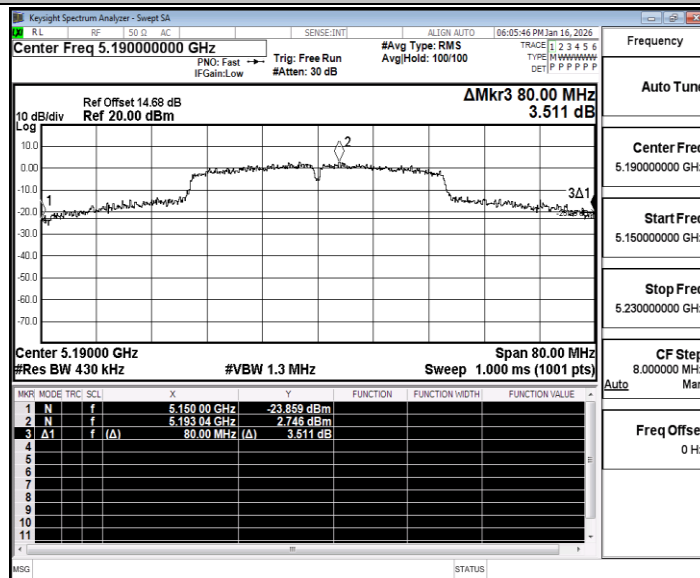
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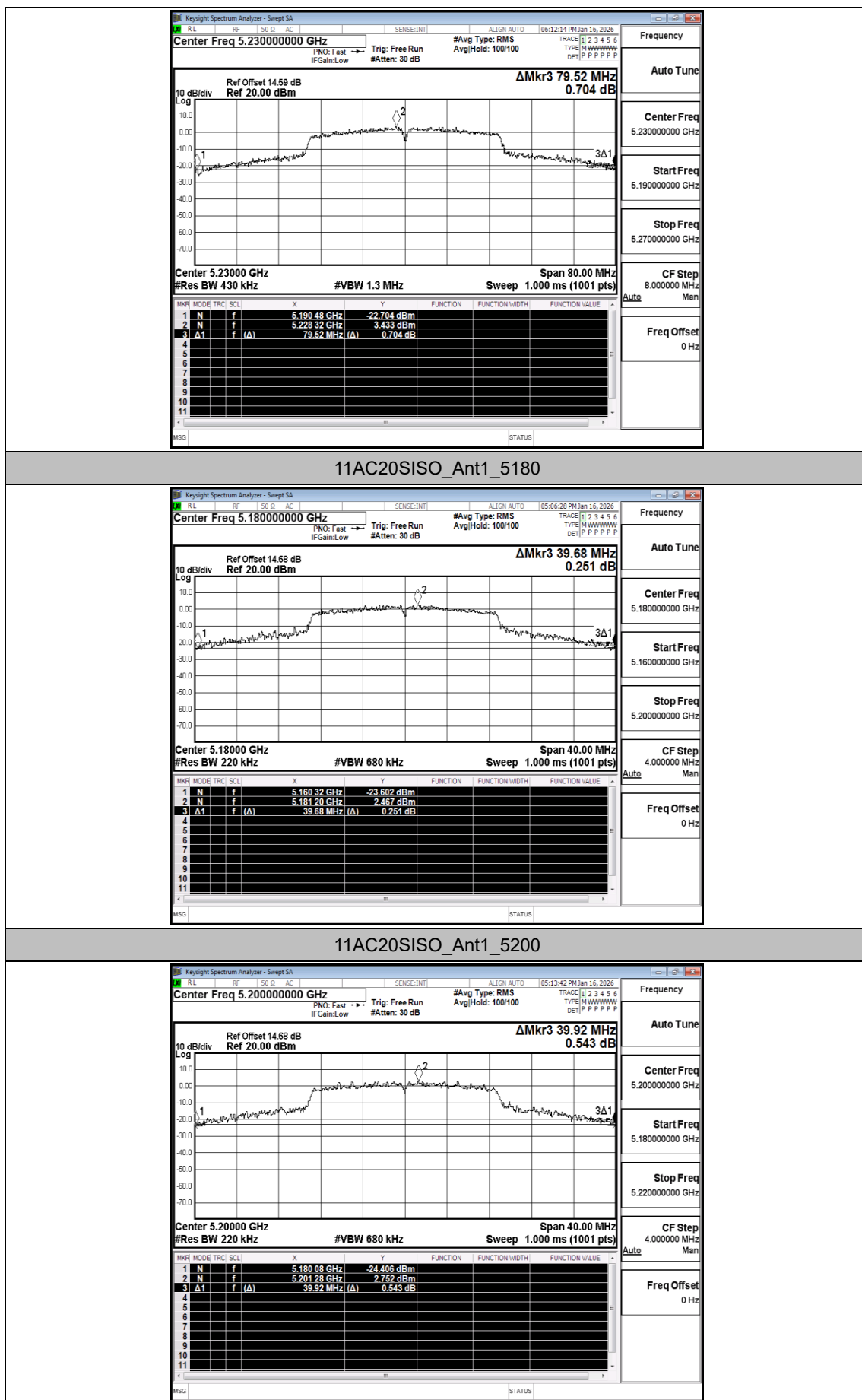
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

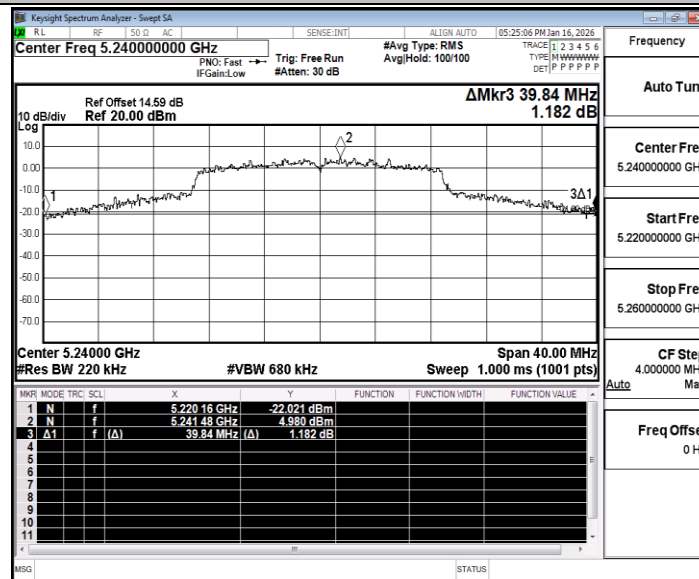


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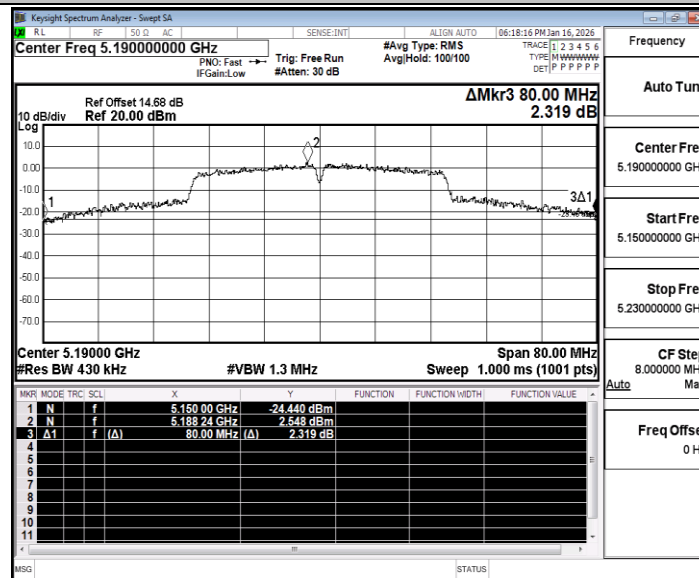
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Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

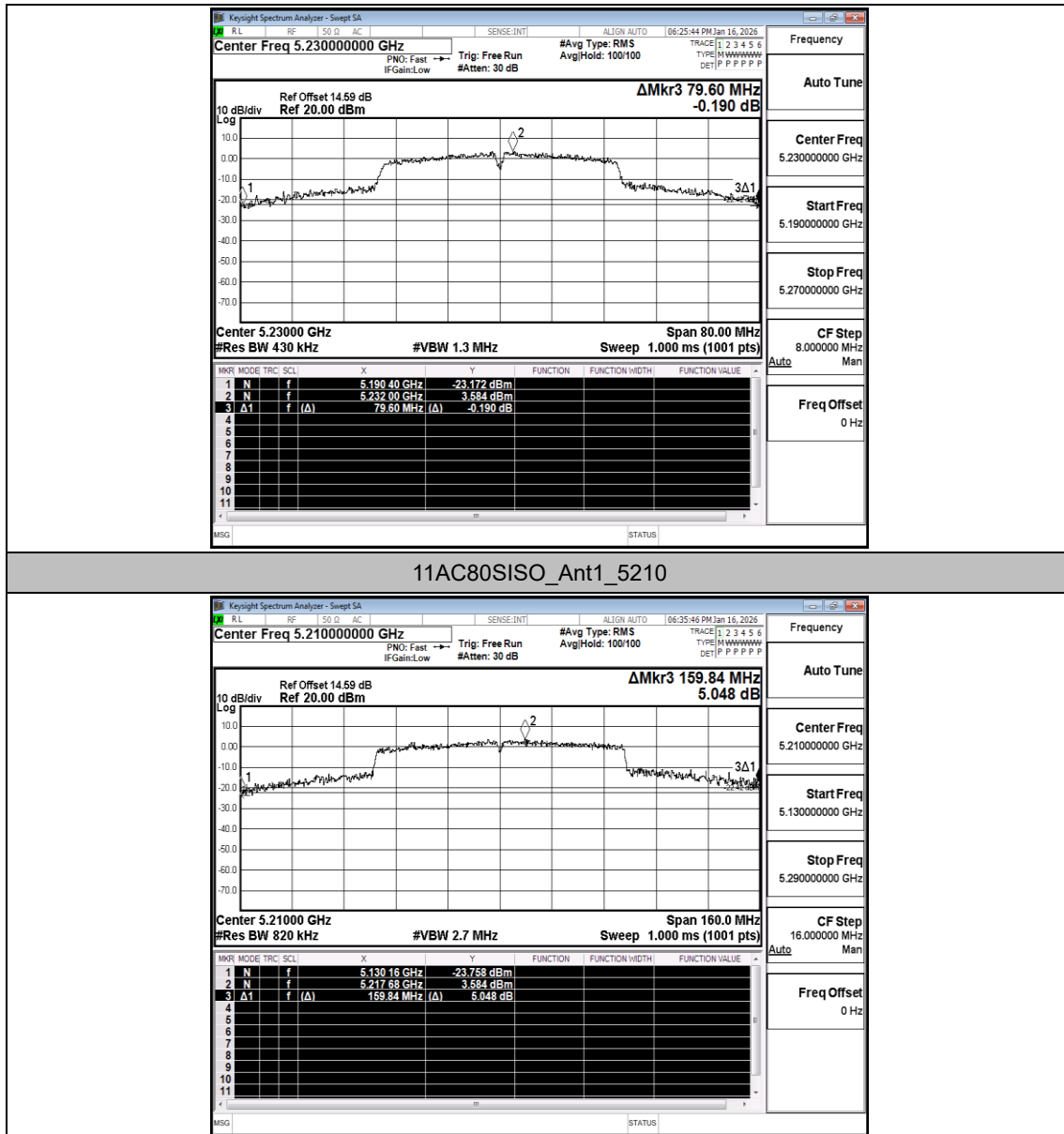
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



B.2 Maximum conducted output power

Test Result Power

Test Mode	Antenna	Freq (MHz)	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	13.45	0.12	13.57	≤23.98	PASS
		5200	13.53	0.15	13.68	≤23.98	PASS
		5240	14.28	0.15	14.43	≤23.98	PASS
11N20SISO	Ant1	5180	13.16	0.16	13.32	≤23.98	PASS
		5200	13.33	0.17	13.50	≤23.98	PASS
		5240	14.26	0.17	14.43	≤23.98	PASS
11N40SISO	Ant1	5190	13.08	0.26	13.34	≤23.98	PASS
		5230	13.63	0.26	13.89	≤23.98	PASS
11AC20SISO	Ant1	5180	13.26	0.13	13.39	≤23.98	PASS
		5200	13.38	0.13	13.51	≤23.98	PASS
		5240	14.35	0.13	14.48	≤23.98	PASS
11AC40SISO	Ant1	5190	12.95	0.26	13.21	≤23.98	PASS
		5230	13.64	0.26	13.90	≤23.98	PASS
11AC80SISO	Ant1	5210	13.11	0.63	13.74	≤23.98	PASS

Note: offset=System attenuation +cabal loss

B.3 Maximum power spectral density

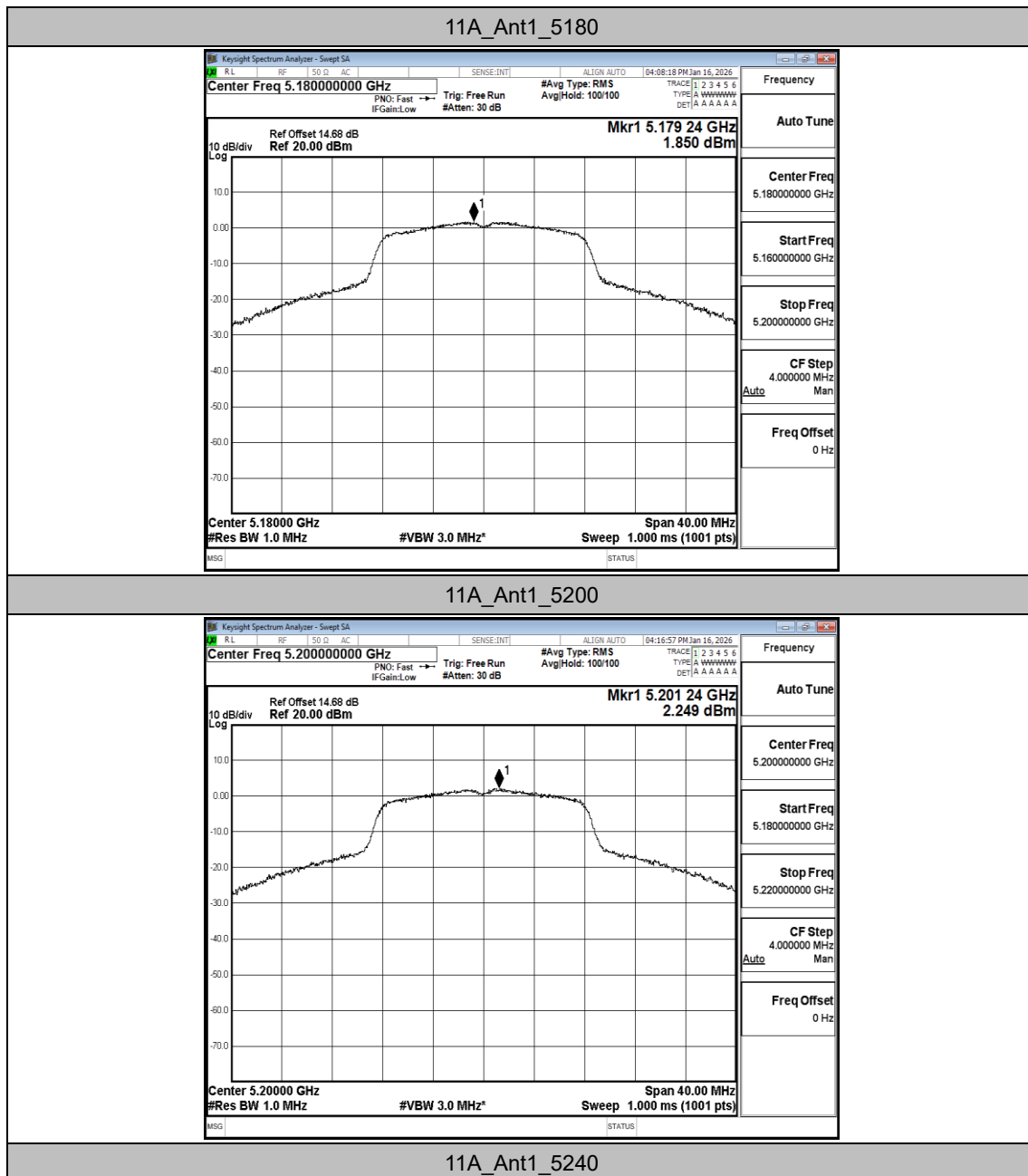
Test Result

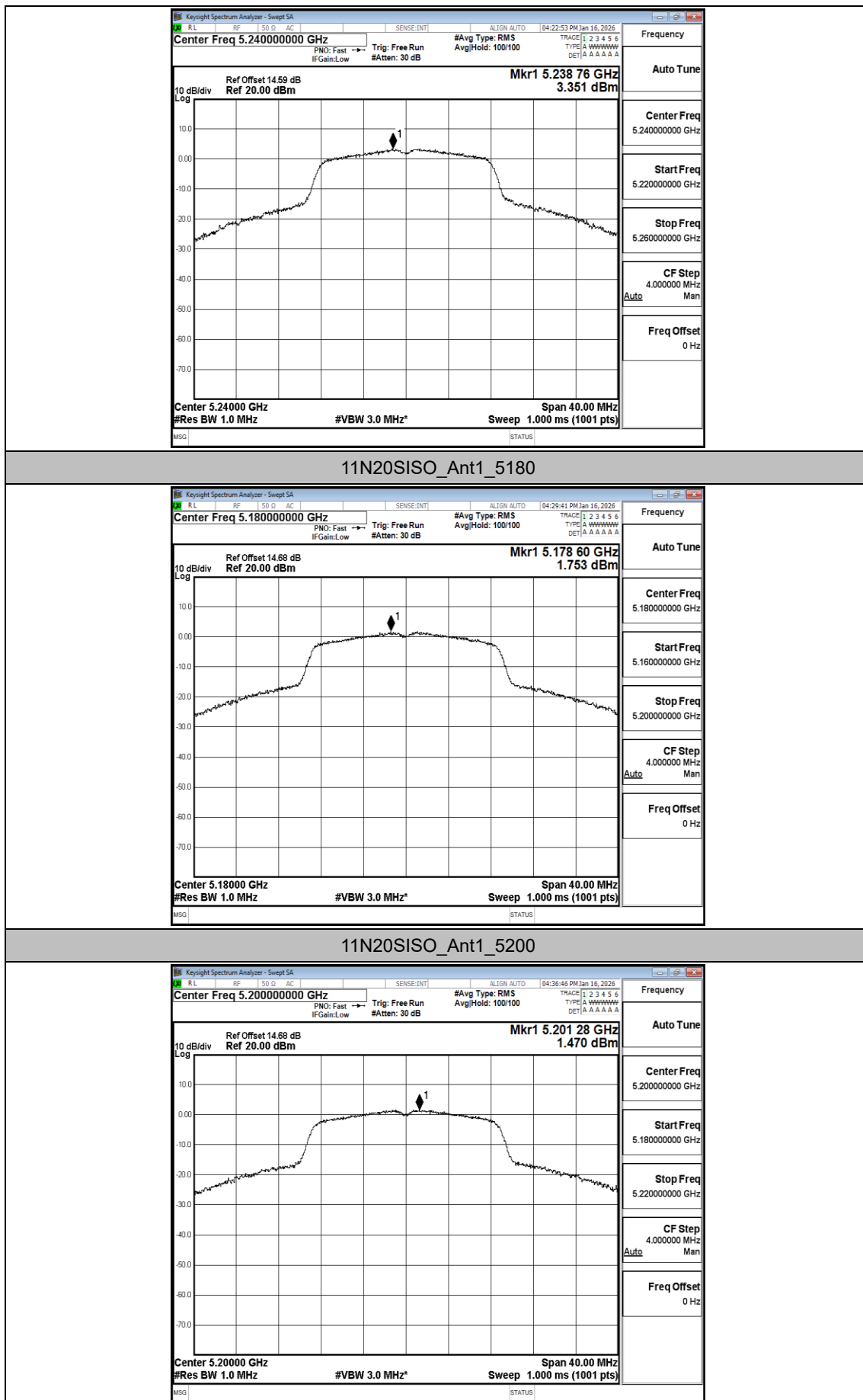
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	1.85	0.12	1.97	≤11.00	PASS
		5200	2.25	0.15	2.40	≤11.00	PASS
		5240	3.35	0.15	3.50	≤11.00	PASS
11N20SISO	Ant1	5180	1.75	0.16	1.91	≤11.00	PASS
		5200	1.47	0.17	1.64	≤11.00	PASS
		5240	3.16	0.17	3.33	≤11.00	PASS
11N40SISO	Ant1	5190	-1.22	0.26	-0.96	≤11.00	PASS
		5230	-0.11	0.26	0.15	≤11.00	PASS
11AC20SISO	Ant1	5180	1.38	0.13	1.51	≤11.00	PASS
		5200	1.68	0.13	1.81	≤11.00	PASS
		5240	3.45	0.13	3.58	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.66	0.26	-1.40	≤11.00	PASS
		5230	-0.31	0.26	-0.05	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.17	0.63	-3.54	≤11.00	PASS

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

Note: offset=System attenuation +cabel loss

Test Graphs



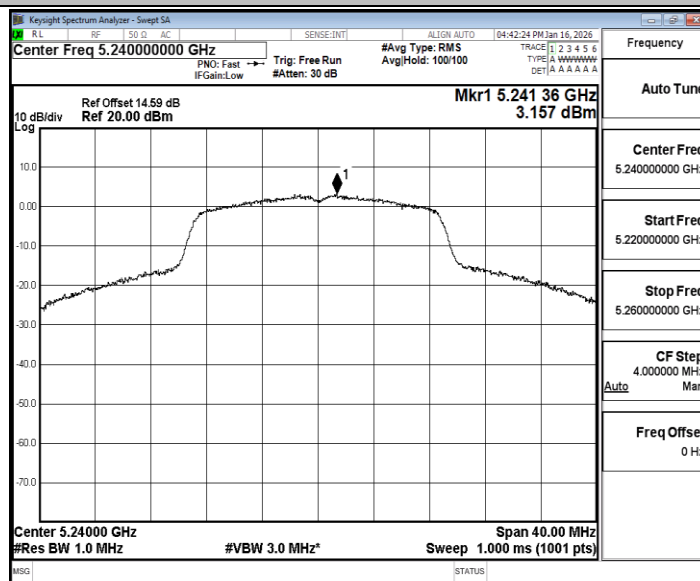


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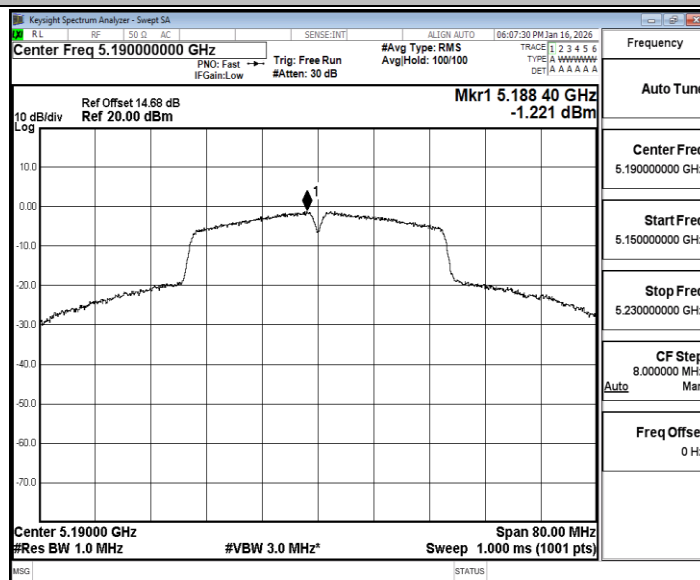
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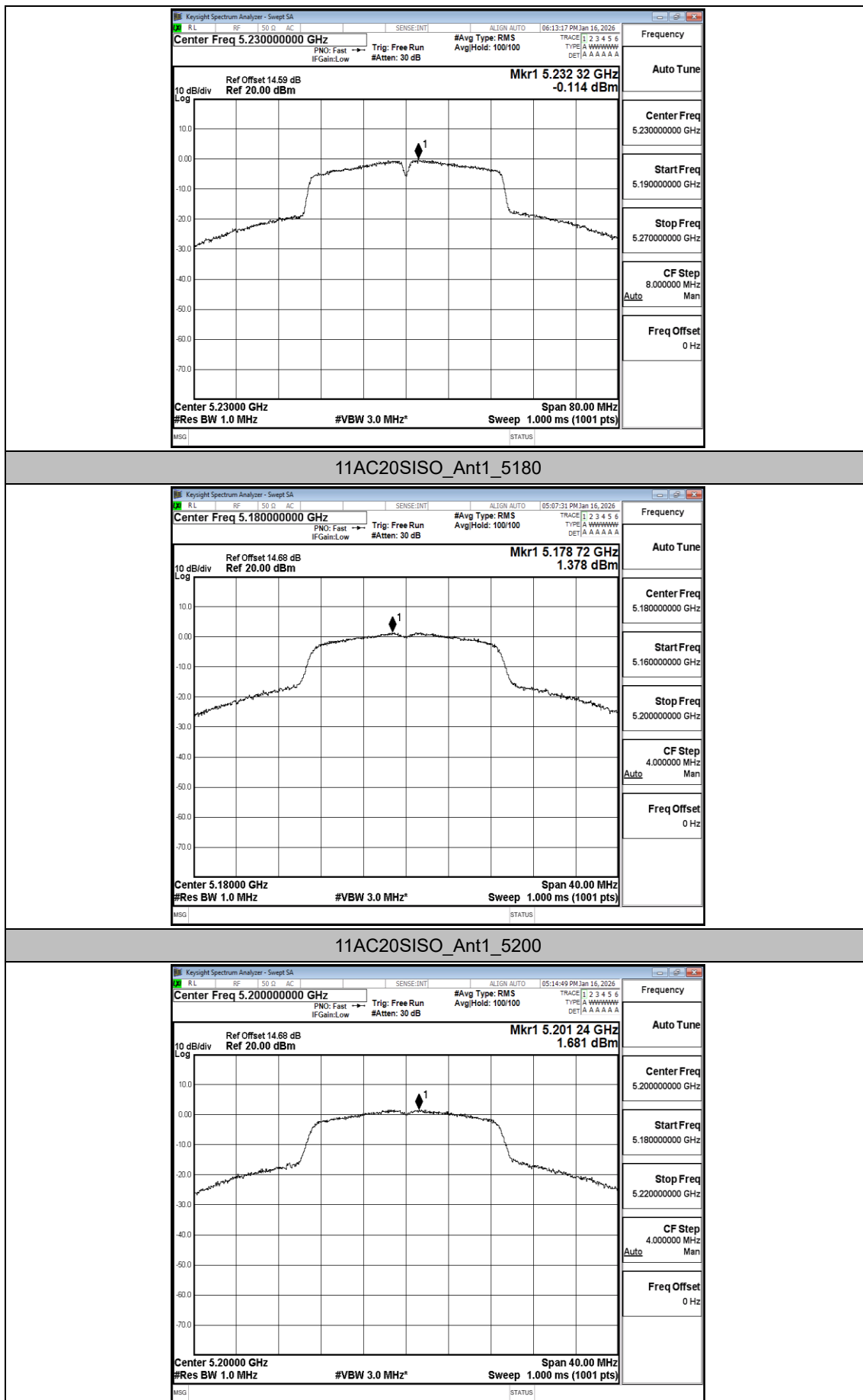
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

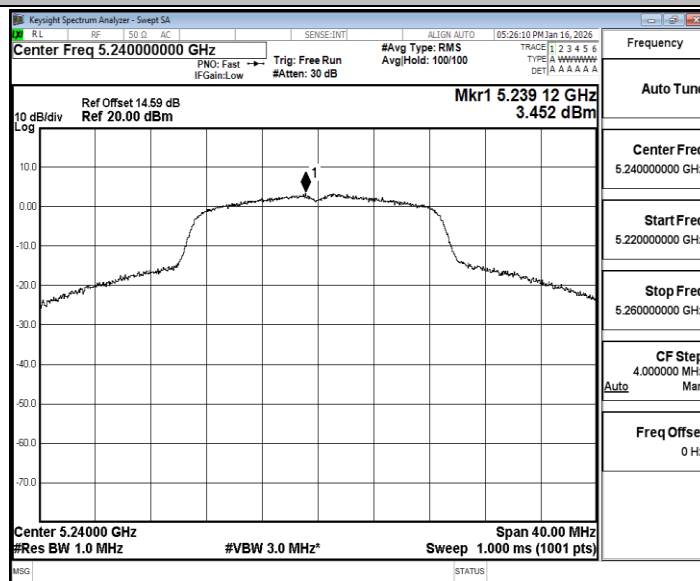


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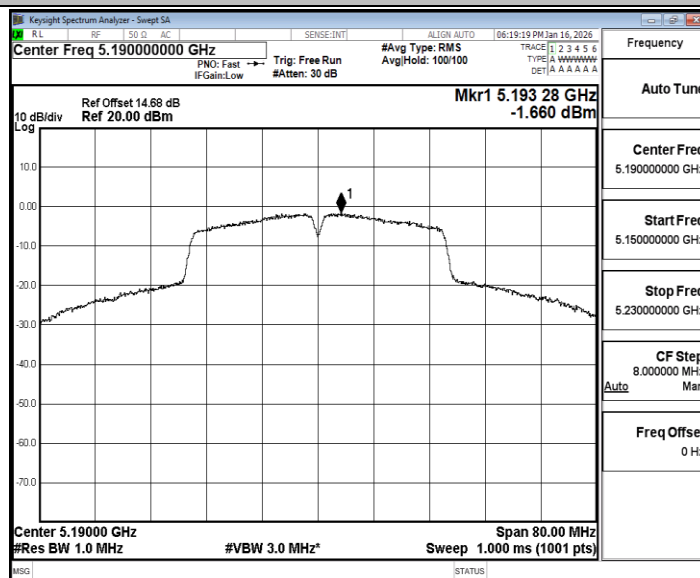
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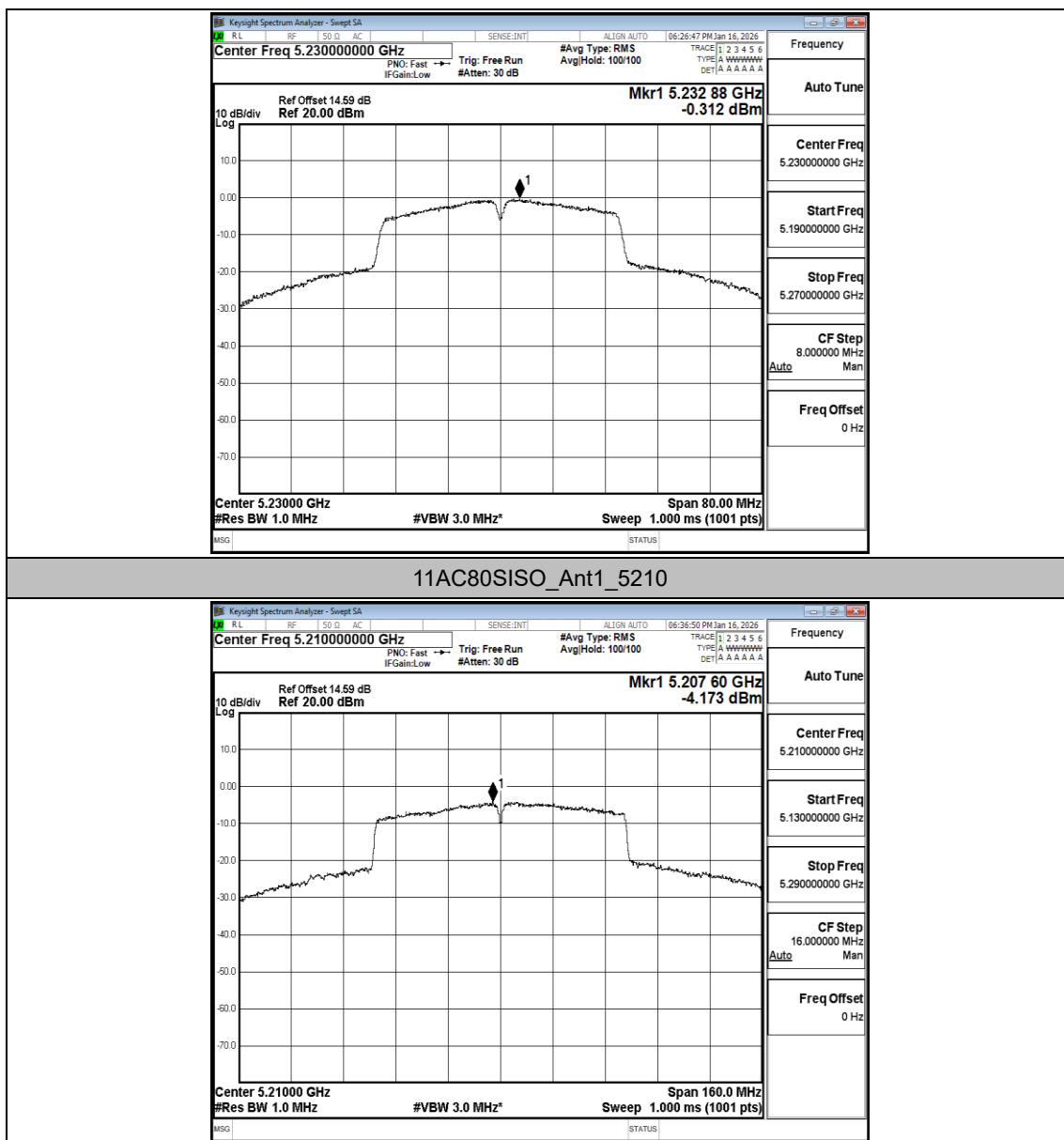
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



B.4 Emissions in Restricted Bands

Test Result

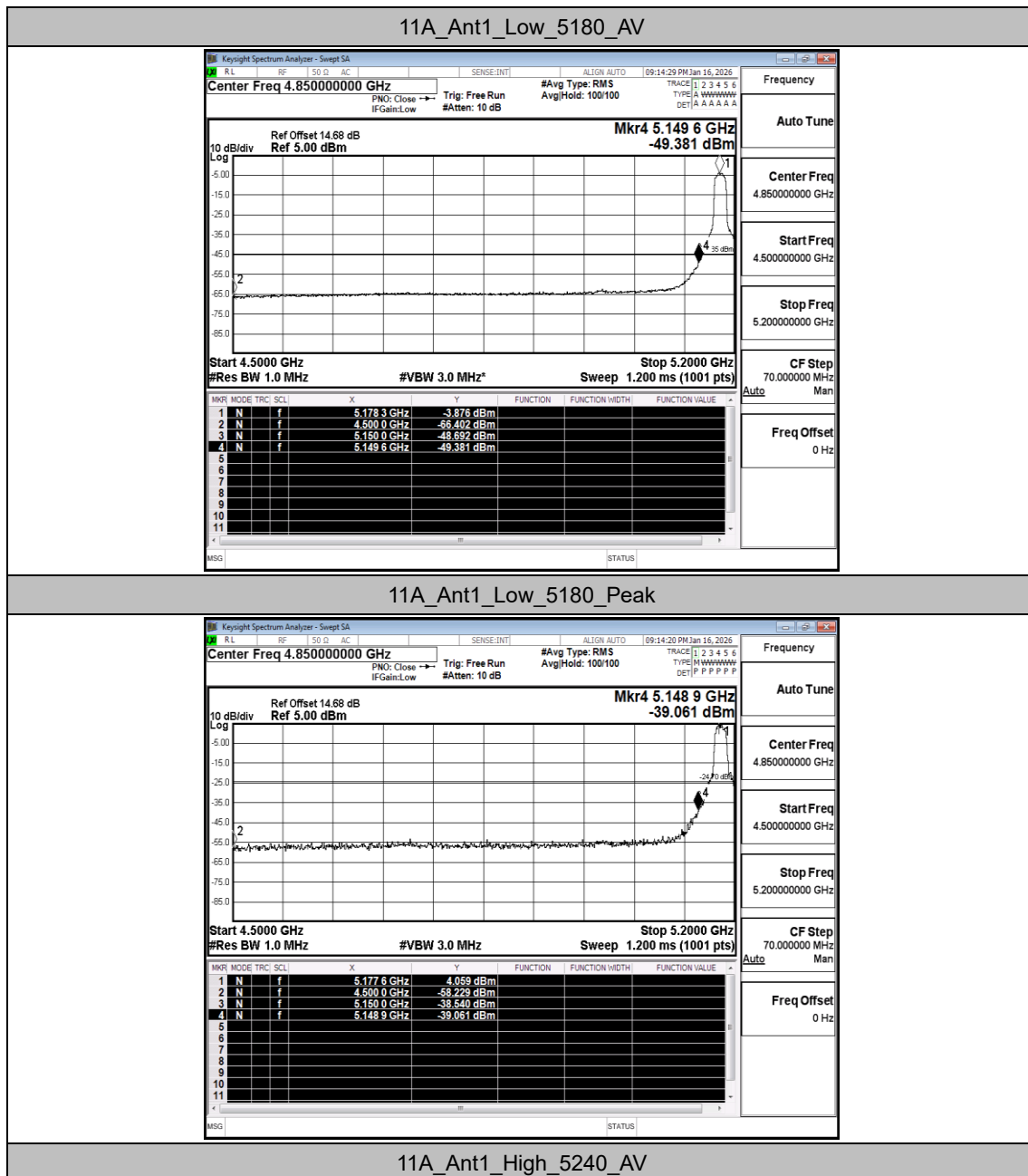
Test Mode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-66.4	≤-44.85	4.28	0.15	32.45	≤54	PASS
				AV	5149.600	-49.38	≤-44.85	4.28	0.15	49.47	≤54	PASS
				AV	5150.000	-48.69	≤-44.85	4.28	0.15	50.16	≤54	PASS
				Peak	4500.000	-58.23	≤-24.70	4.28	0.00	40.47	≤74	PASS
				Peak	5148.900	-39.06	≤-24.70	4.28	0.00	59.64	≤74	PASS
				Peak	5150.000	-38.54	≤-24.70	4.28	0.00	60.16	≤74	PASS
		High	5240	AV	5350.000	-62.85	≤-44.82	4.28	0.12	35.97	≤54	PASS
				AV	5352.480	-61.8	≤-44.82	4.28	0.12	37.02	≤54	PASS
				AV	5460.000	-64.97	≤-44.82	4.28	0.12	33.85	≤54	PASS
				Peak	5350.000	-53.91	≤-24.70	4.28	0.00	44.79	≤74	PASS
				Peak	5356.800	-51.52	≤-24.70	4.28	0.00	47.18	≤74	PASS
				Peak	5460.000	-57.56	≤-24.70	4.28	0.00	41.14	≤74	PASS
11N20	Ant1	Low	5180	AV	4500.000	-66.32	≤-44.86	4.28	0.16	32.54	≤54	PASS
				AV	5148.900	-49.71	≤-44.86	4.28	0.16	49.15	≤54	PASS
				AV	5150.000	-48.52	≤-44.86	4.28	0.16	50.34	≤54	PASS
				Peak	4500.000	-58.34	≤-24.70	4.28	0.00	40.36	≤74	PASS
				Peak	5148.200	-37.04	≤-24.70	4.28	0.00	61.66	≤74	PASS
				Peak	5150.000	-37.59	≤-24.70	4.28	0.00	61.11	≤74	PASS
		High	5240	AV	5350.000	-62.71	≤-44.86	4.28	0.16	36.15	≤54	PASS
				AV	5352.480	-61.69	≤-44.86	4.28	0.16	37.17	≤54	PASS
				AV	5460.000	-64.57	≤-44.86	4.28	0.16	34.29	≤54	PASS
				Peak	5350.000	-54.84	≤-24.70	4.28	0.00	43.86	≤74	PASS
				Peak	5367.600	-52.26	≤-24.70	4.28	0.00	46.44	≤74	PASS
				Peak	5460.000	-55.87	≤-24.70	4.28	0.00	42.83	≤74	PASS
11N40	Ant1	Low	5190	AV	4500.000	-66.9	≤-44.96	4.28	0.26	32.06	≤54	PASS
				AV	5148.900	-53.06	≤-44.96	4.28	0.26	45.90	≤54	PASS
				AV	5150.000	-56.18	≤-44.96	4.28	0.26	42.78	≤54	PASS
				Peak	4500.000	-59.13	≤-24.70	4.28	0.00	39.57	≤74	PASS
				Peak	5146.800	-36.89	≤-24.70	4.28	0.00	61.81	≤74	PASS
				Peak	5150.000	-38.67	≤-24.70	4.28	0.00	60.03	≤74	PASS
		High	5230	AV	5350.000	-62.35	≤-45.03	4.28	0.33	36.68	≤54	PASS
				AV	5350.280	-61.9	≤-45.03	4.28	0.33	37.13	≤54	PASS
				AV	5460.000	-64.89	≤-45.03	4.28	0.33	34.14	≤54	PASS
				Peak	5350.000	-54.28	≤-24.70	4.28	0.00	44.42	≤74	PASS
				Peak	5379.140	-52.34	≤-24.70	4.28	0.00	46.36	≤74	PASS
				Peak	5460.000	-57.24	≤-24.70	4.28	0.00	41.46	≤74	PASS

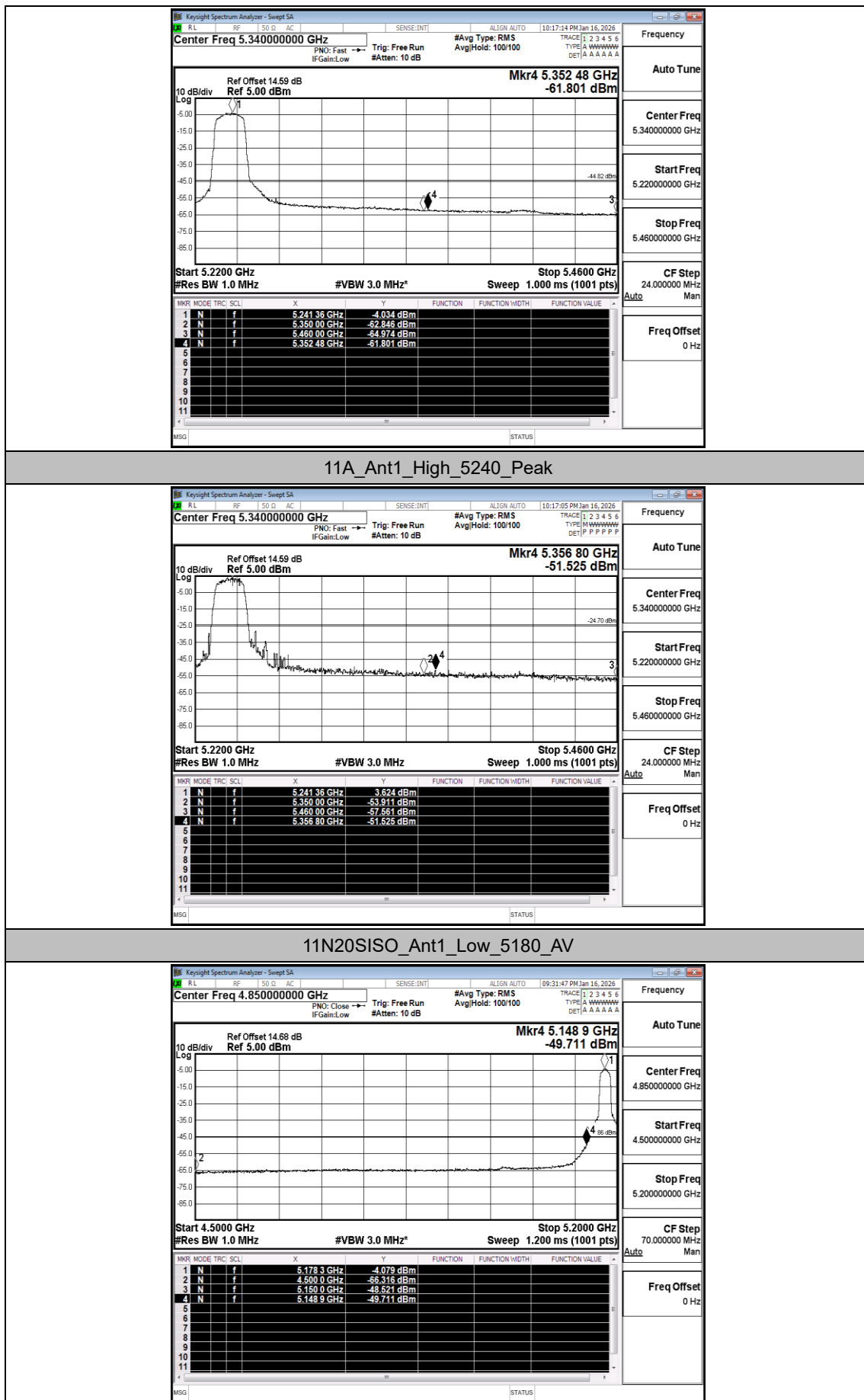
11AC20	Ant1	Low	5180	AV	4500.000	-66.64	≤-44.86	4.28	0.16	32.22	≤54	PASS
				AV	5148.900	-47.83	≤-44.86	4.28	0.16	51.03	≤54	PASS
				AV	5150.000	-47.55	≤-44.86	4.28	0.16	51.31	≤54	PASS
				Peak	4500.000	-57.95	≤-24.70	4.28	0.00	40.75	≤74	PASS
				Peak	5147.500	-36.12	≤-24.70	4.28	0.00	62.58	≤74	PASS
				Peak	5150.000	-38.8	≤-24.70	4.28	0.00	59.90	≤74	PASS
		High	5240	AV	5350.000	-62.11	≤-44.83	4.28	0.13	36.72	≤54	PASS
				AV	5360.160	-61.58	≤-44.83	4.28	0.13	37.25	≤54	PASS
				AV	5460.000	-64.69	≤-44.83	4.28	0.13	34.14	≤54	PASS
				Peak	5350.000	-53.37	≤-24.70	4.28	0.00	45.33	≤74	PASS
				Peak	5381.520	-51.64	≤-24.70	4.28	0.00	47.06	≤74	PASS
				Peak	5460.000	-56.73	≤-24.70	4.28	0.00	41.97	≤74	PASS
11AC40	Ant1	Low	5190	AV	4500.000	-66.2	≤-45.02	4.28	0.32	32.82	≤54	PASS
				AV	5146.100	-54.26	≤-45.02	4.28	0.32	44.76	≤54	PASS
				AV	5150.000	-54.19	≤-45.02	4.28	0.32	44.83	≤54	PASS
				Peak	4500.000	-57.69	≤-24.70	4.28	0.00	41.01	≤74	PASS
				Peak	5147.500	-35.96	≤-24.70	4.28	0.00	62.74	≤74	PASS
				Peak	5150.000	-39.96	≤-24.70	4.28	0.00	58.74	≤74	PASS
		High	5230	AV	5350.000	-62.28	≤-44.96	4.28	0.26	36.68	≤54	PASS
				AV	5392.920	-62.04	≤-44.96	4.28	0.26	36.92	≤54	PASS
				AV	5460.000	-64.85	≤-44.96	4.28	0.26	34.11	≤54	PASS
				Peak	5350.000	-55.71	≤-24.70	4.28	0.00	42.99	≤74	PASS
				Peak	5359.900	-52.52	≤-24.70	4.28	0.00	46.18	≤74	PASS
				Peak	5460.000	-57.93	≤-24.70	4.28	0.00	40.77	≤74	PASS
11AC80	Ant1	Low	5210	AV	4500.000	-66.87	≤-45.33	4.28	0.63	32.46	≤54	PASS
				AV	5136.750	-52	≤-45.33	4.28	0.63	47.33	≤54	PASS
				AV	5150.000	-53.73	≤-45.33	4.28	0.63	45.60	≤54	PASS
				Peak	4500.000	-58.94	≤-24.70	4.28	0.00	39.76	≤74	PASS
				Peak	5145.750	-37.84	≤-24.70	4.28	0.00	60.86	≤74	PASS
				Peak	5150.000	-40.1	≤-24.70	4.28	0.00	58.60	≤74	PASS
		High	5210	AV	5350.000	-60.34	≤-45.33	4.28	0.63	38.99	≤54	PASS
				AV	5355.000	-59.71	≤-45.33	4.28	0.63	39.62	≤54	PASS
				AV	5460.000	-65.02	≤-45.33	4.28	0.63	34.31	≤54	PASS
				Peak	5350.000	-49.91	≤-24.70	4.28	0.00	48.79	≤74	PASS
				Peak	5353.600	-47.65	≤-24.70	4.28	0.00	51.05	≤74	PASS
				Peak	5460.000	-57.46	≤-24.70	4.28	0.00	41.24	≤74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. Note: offset=System attenuation +cabel loss
3. 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



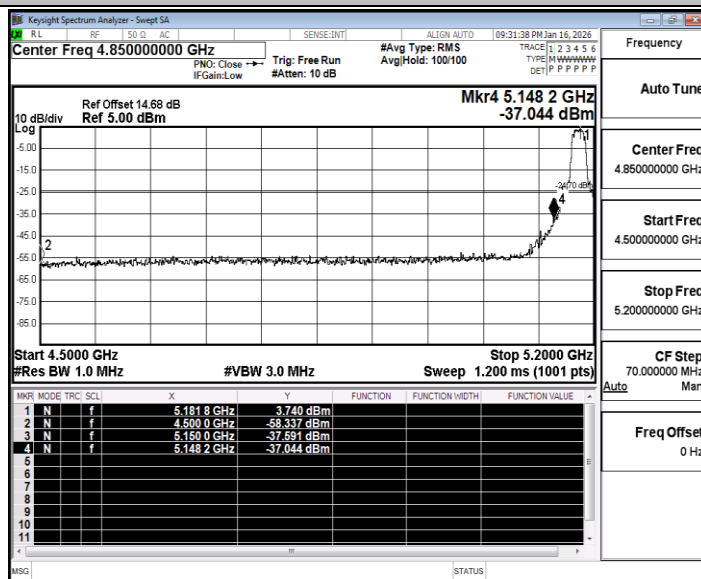


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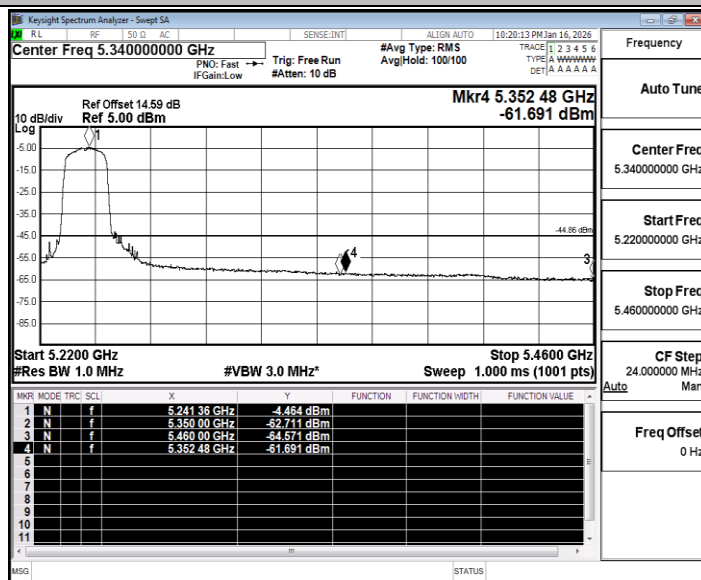
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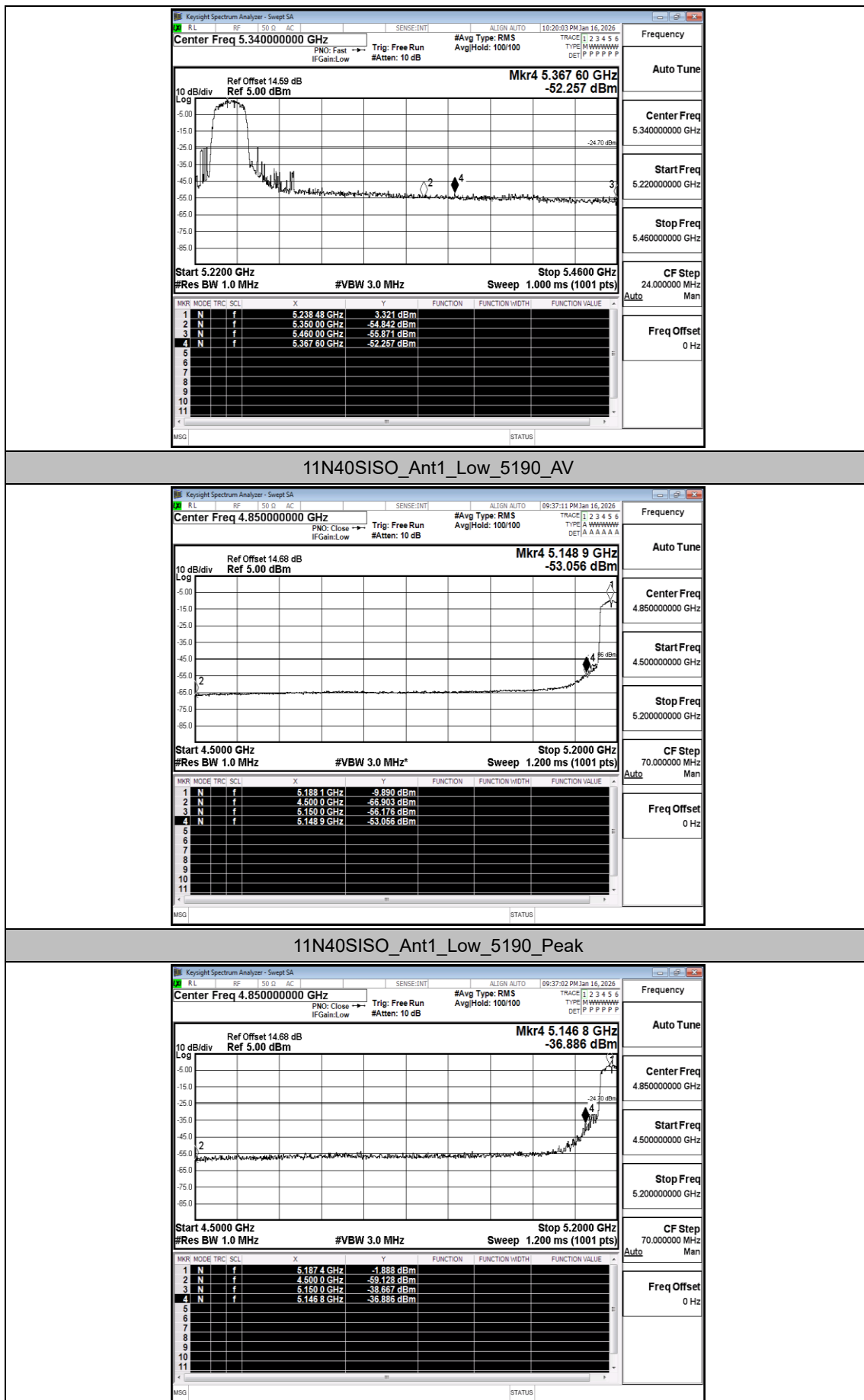
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11N20SISO_Ant1_High_5240_AV



11N20SISO_Ant1_High_5240_Peak

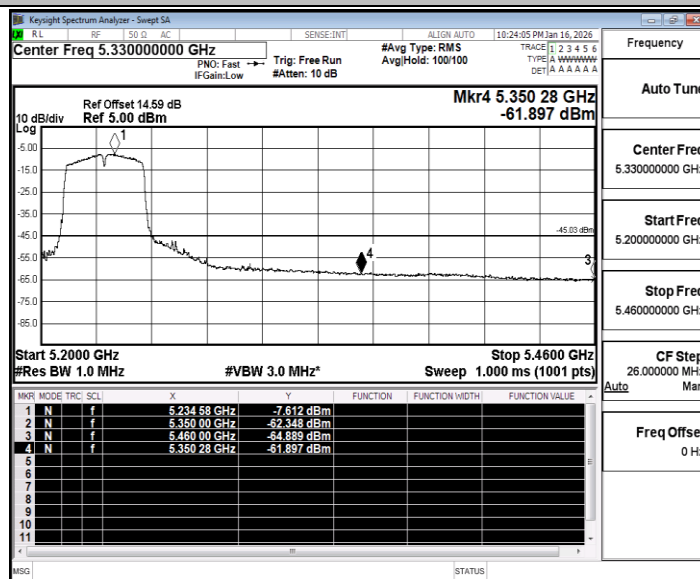


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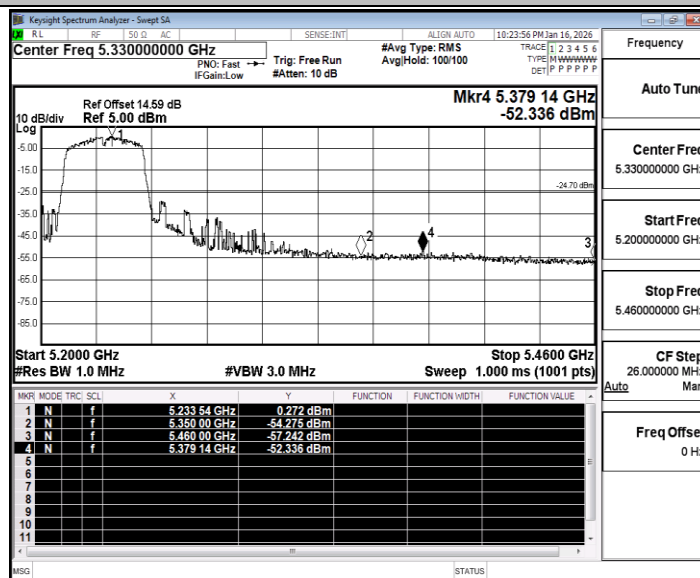
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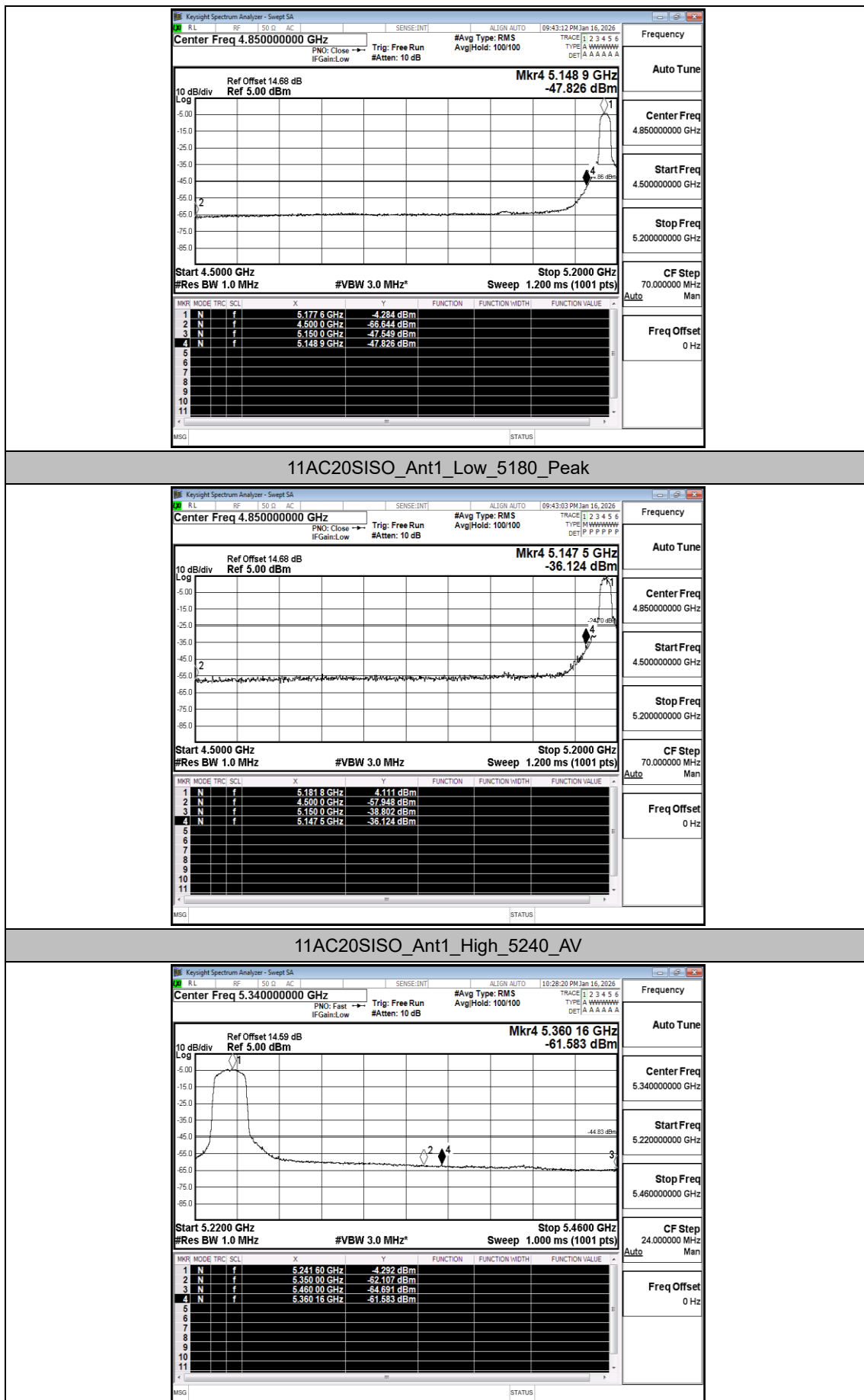
11N40SISO_Ant1_High_5230_AV



11N40SISO_Ant1_High_5230_Peak



11AC20SISO_Ant1_Low_5180_AV

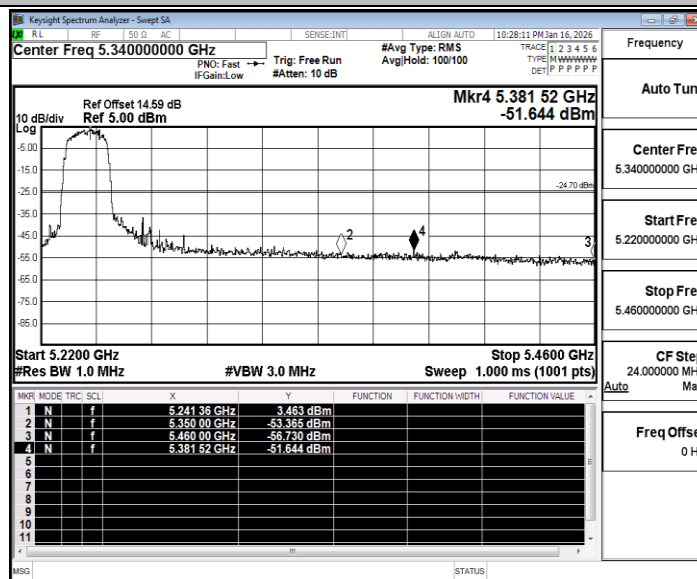


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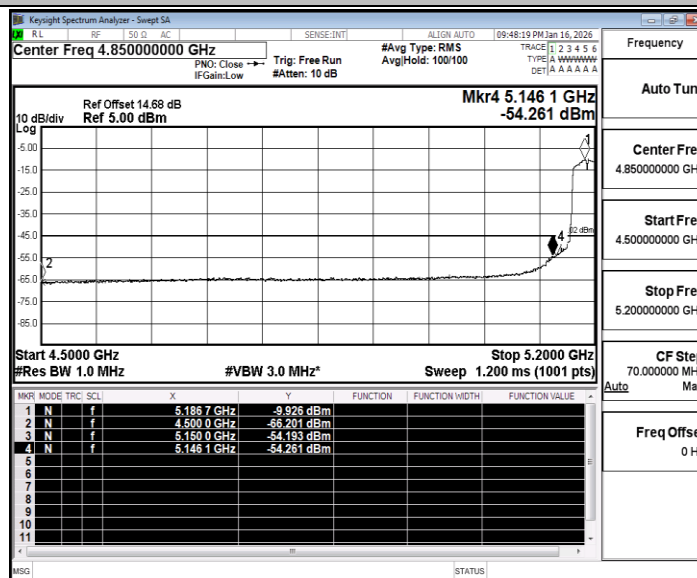
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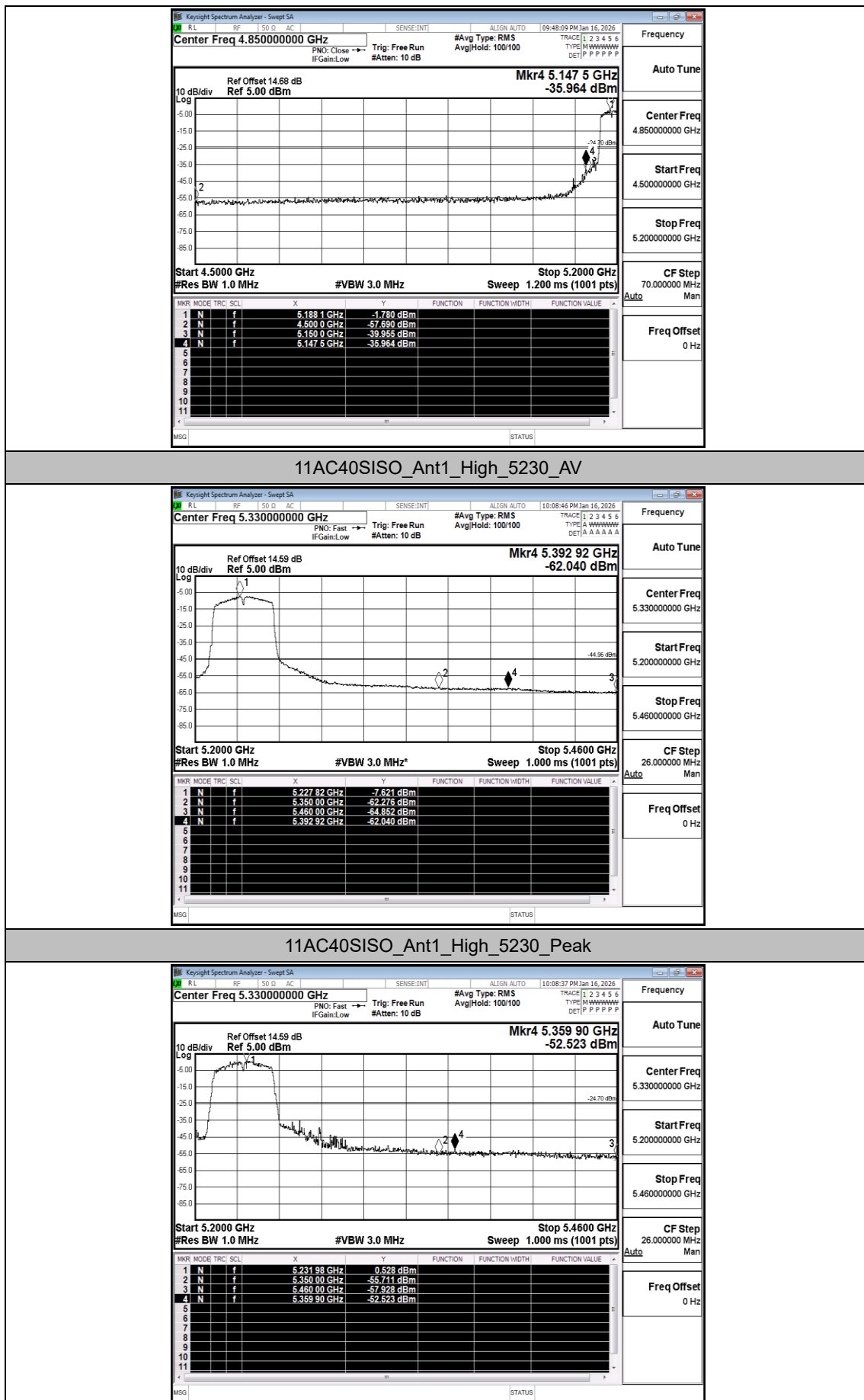
11AC20SISO_Ant1_High_5240_Peak



11AC40SISO_Ant1_Low_5190_AV



11AC40SISO_Ant1_Low_5190_Peak

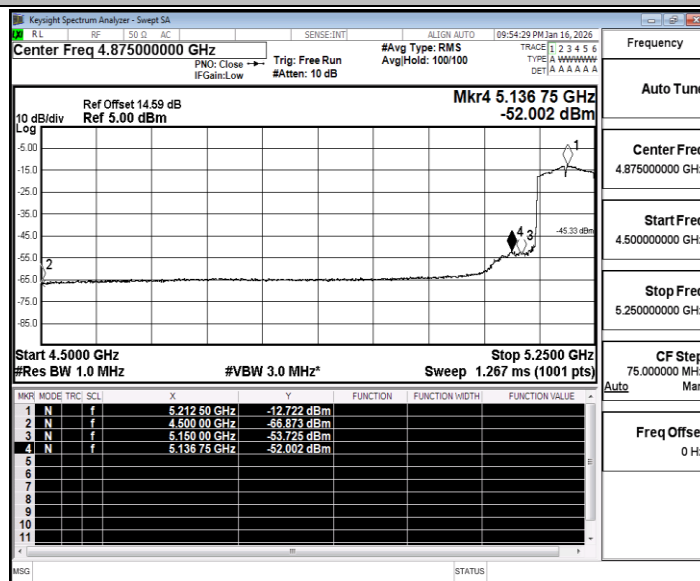


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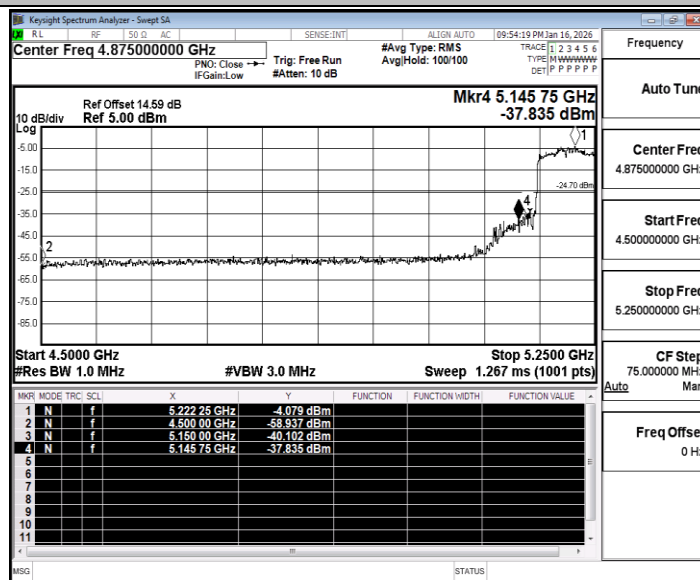
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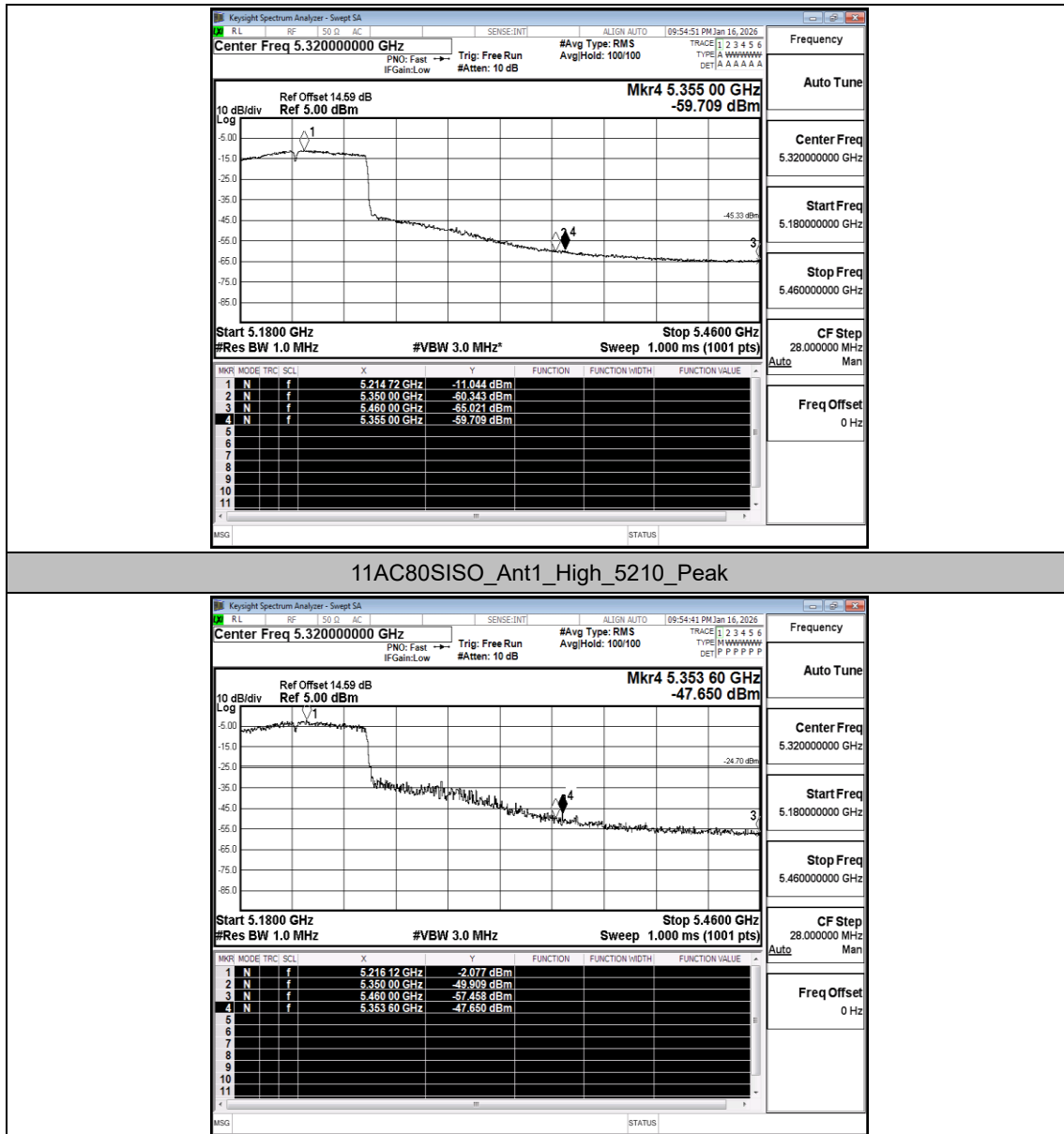
11AC80SISO_Ant1_Low_5210_AV



11AC80SISO_Ant1_Low_5210_Peak



11AC80SISO_Ant1_High_5210_AV



Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-28.93	≤ -27	PASS
		High	5240	-31.68	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-28.79	≤ -27	PASS
		High	5240	-31.45	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-29.86	≤ -27	PASS
		High	5230	-31.63	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-29.25	≤ -27	PASS
		High	5240	-31.2	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-29.87	≤ -27	PASS
		High	5230	-31.08	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-30.05	≤ -27	PASS
		High	5210	-31.39	≤ -27	PASS

Test Graphs

