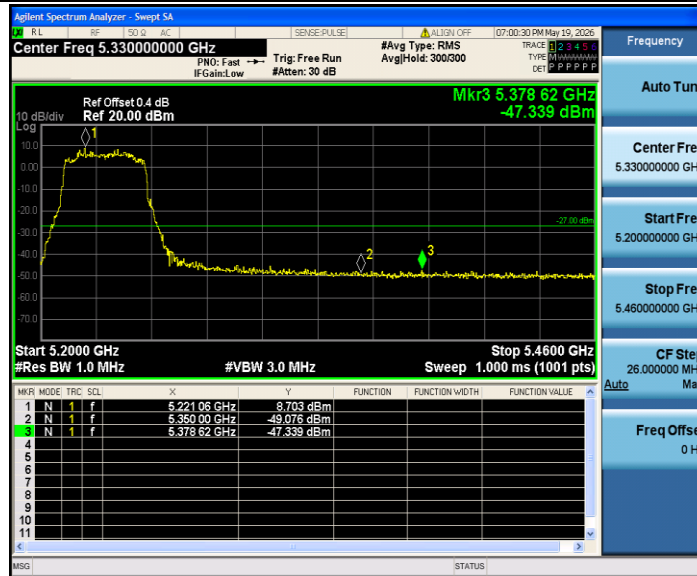
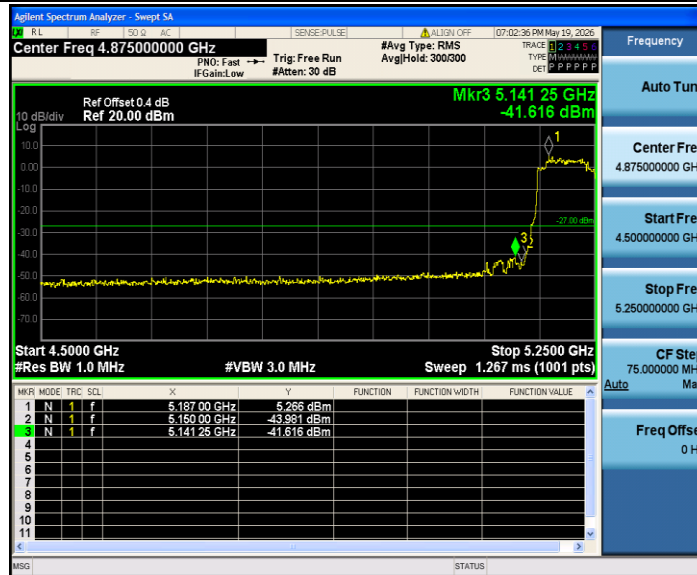


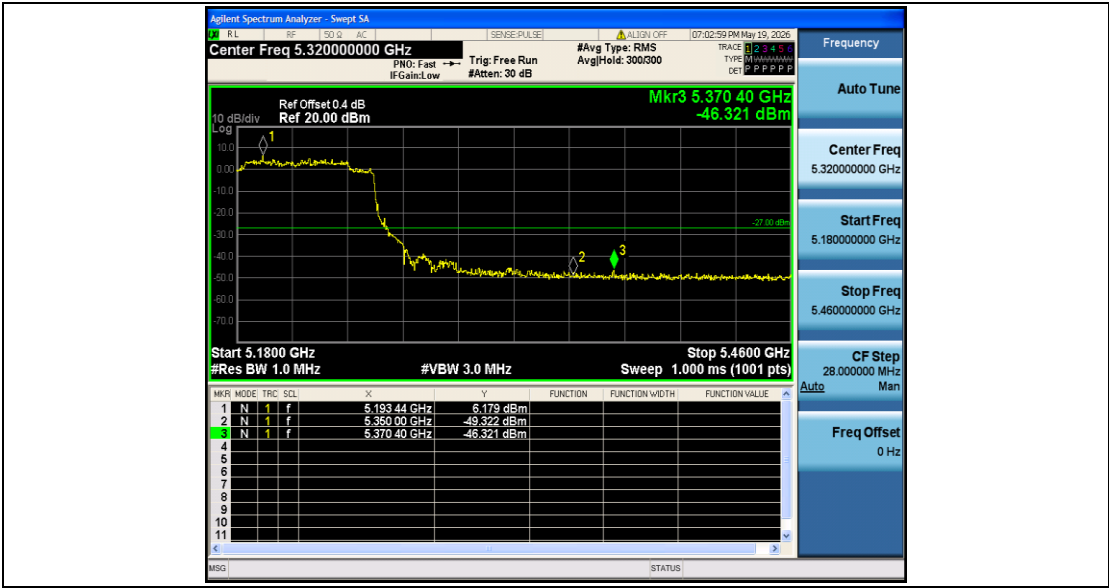
11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



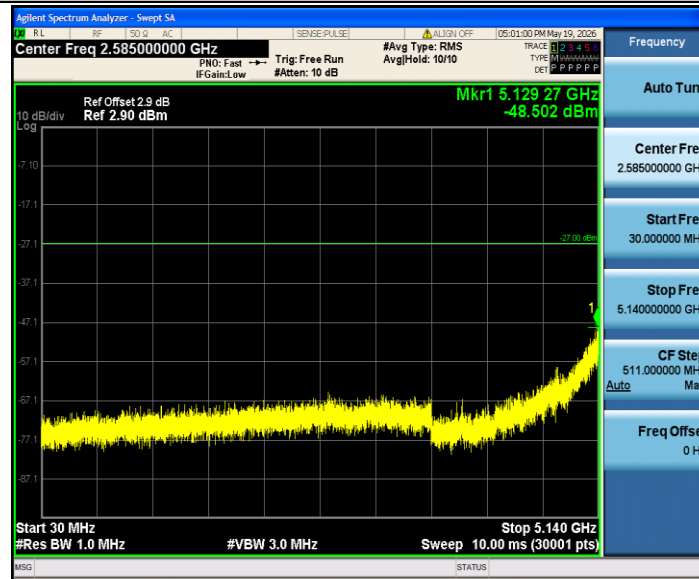
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5129.27	-48.5	≤-27	PASS
			5360~40000	6475.18	-49.08	≤-27	PASS
		5220	30~5140	5131.48	-49.14	≤-27	PASS
			5360~40000	5360	-48.47	≤-27	PASS
		5240	30~5140	5122.8	-50.98	≤-27	PASS
			5360~40000	5400.39	-46.22	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5138.47	-48.22	≤-27	PASS
			5360~40000	6475.18	-48.71	≤-27	PASS
		5220	30~5140	5139.32	-49.64	≤-27	PASS
			5360~40000	5362.89	-49.46	≤-27	PASS
		5240	30~5140	5131.31	-50.36	≤-27	PASS
			5360~40000	5422.76	-48.69	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5135.74	-46.9	≤-27	PASS
			5360~40000	5374.43	-49.34	≤-27	PASS
		5230	30~5140	5128.25	-50.18	≤-27	PASS
			5360~40000	5360	-48.45	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5137.27	-48.77	≤-27	PASS
			5360~40000	5375.15	-48.84	≤-27	PASS
		5220	30~5140	5135.57	-50.1	≤-27	PASS
			5360~40000	5382.36	-49.21	≤-27	PASS
		5240	30~5140	5114.11	-50.23	≤-27	PASS
			5360~40000	5401.12	-46.29	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5124.33	-47.5	≤-27	PASS
			5360~40000	6487.44	-49.41	≤-27	PASS
		5230	30~5140	5118.71	-50.38	≤-27	PASS
			5360~40000	5364.33	-47.32	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5124.84	-42.43	≤-27	PASS
			5360~40000	5363.61	-47.01	≤-27	PASS

Test Graphs

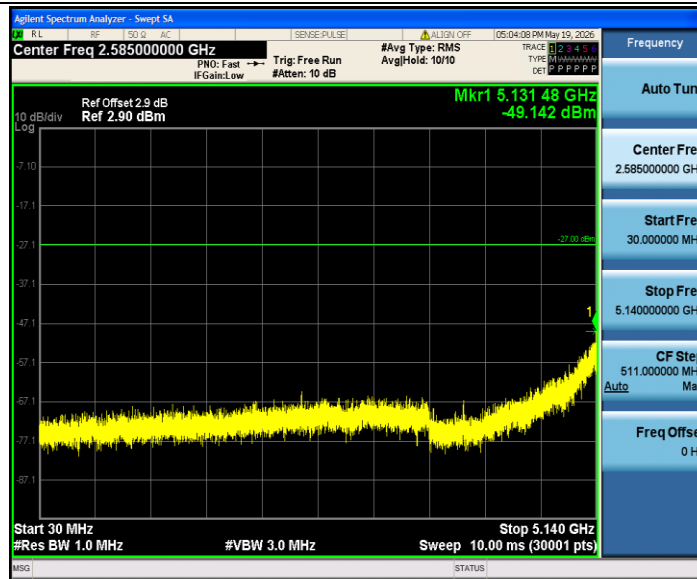
11A_Ant1_5180_30~5140



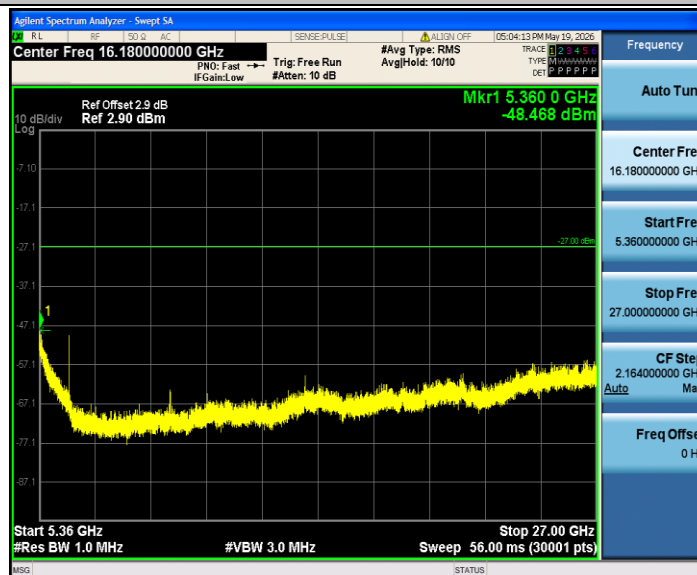
11A_Ant1_5180_5360~40000



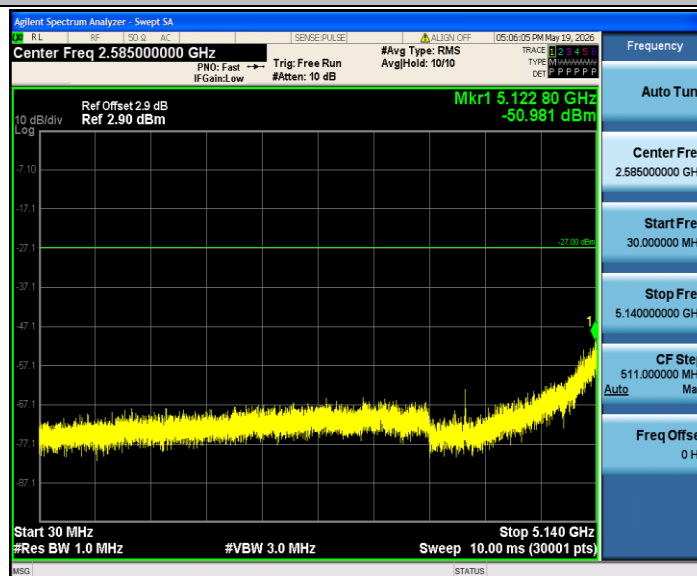
11A_Ant1_5220_30~5140



11A_Ant1_5220_5360~40000



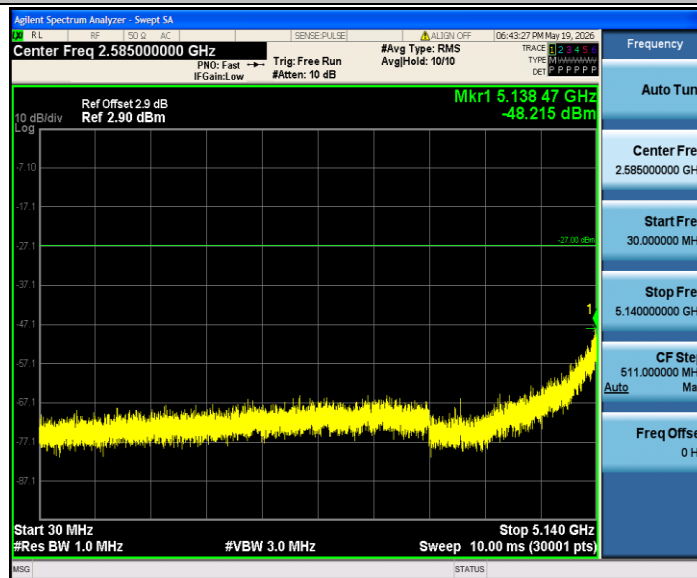
11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~40000



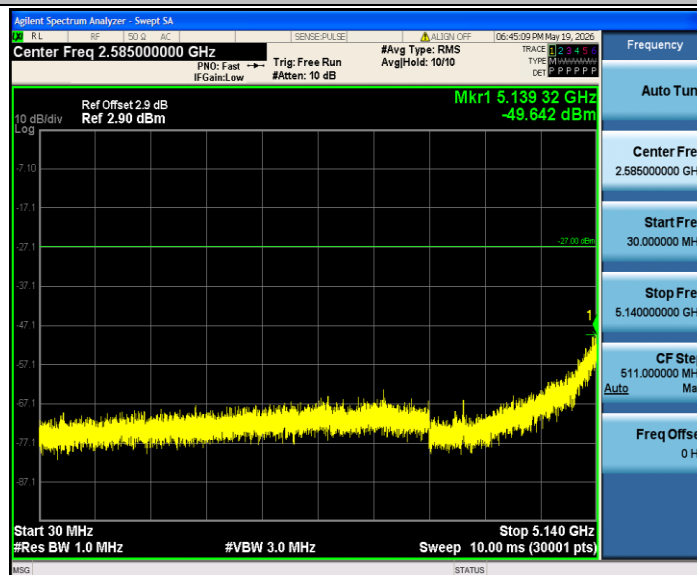
11N20SISO_Ant1_5180_30~5140



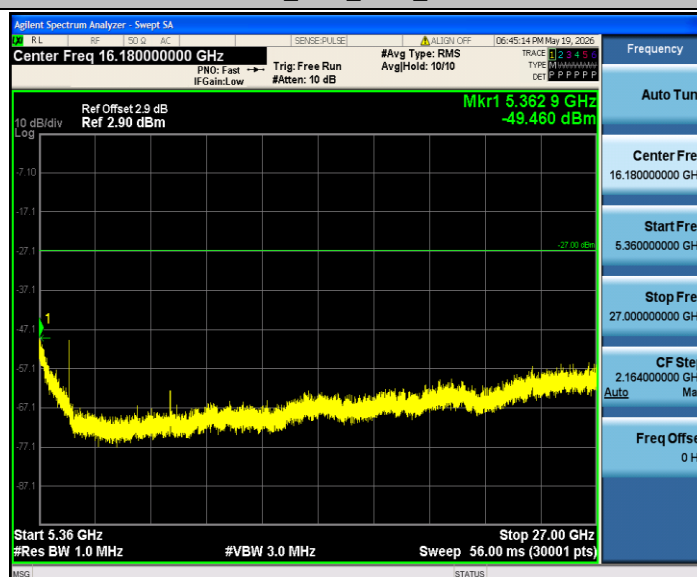
11N20SISO_Ant1_5180_5360~40000



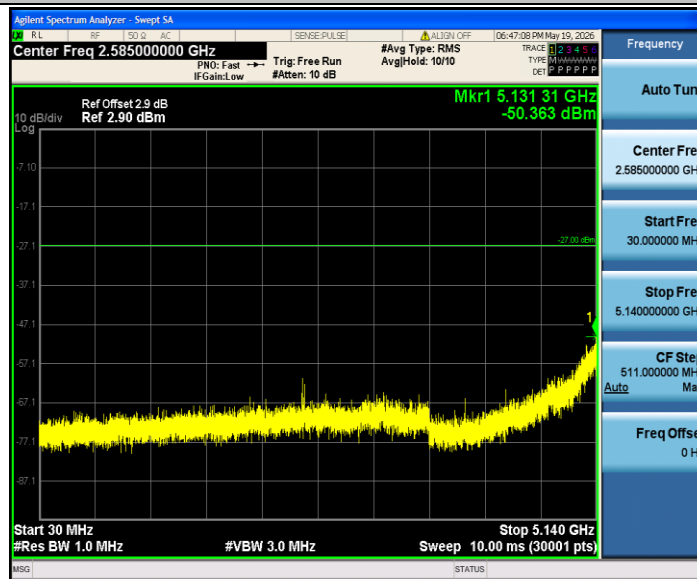
11N20SISO_Ant1_5220_30~5140



11N20SISO_Ant1_5220_5360~40000



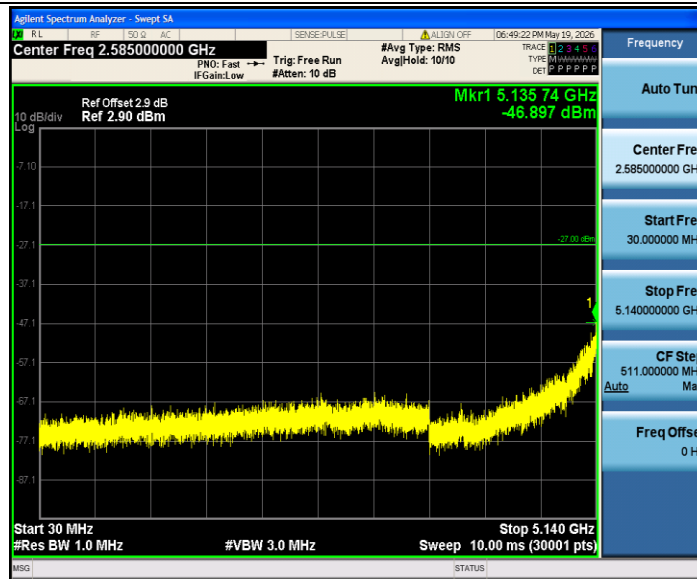
11N20SISO_Ant1_5240_30~5140



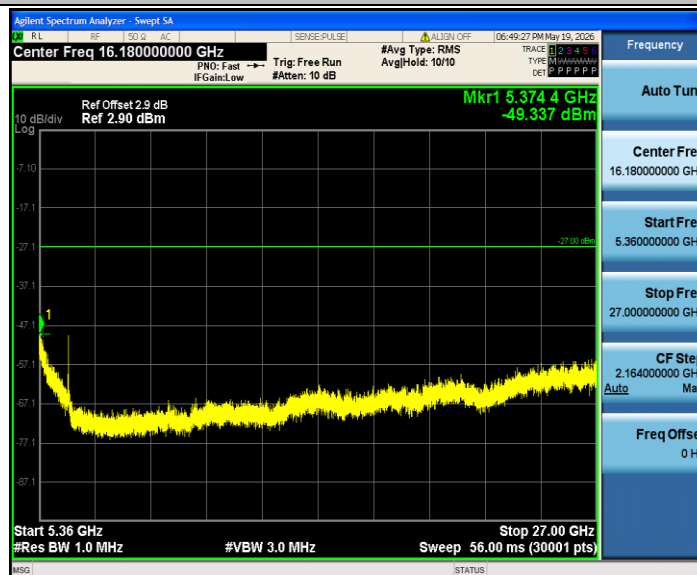
11N20SISO_Ant1_5240_5360~40000



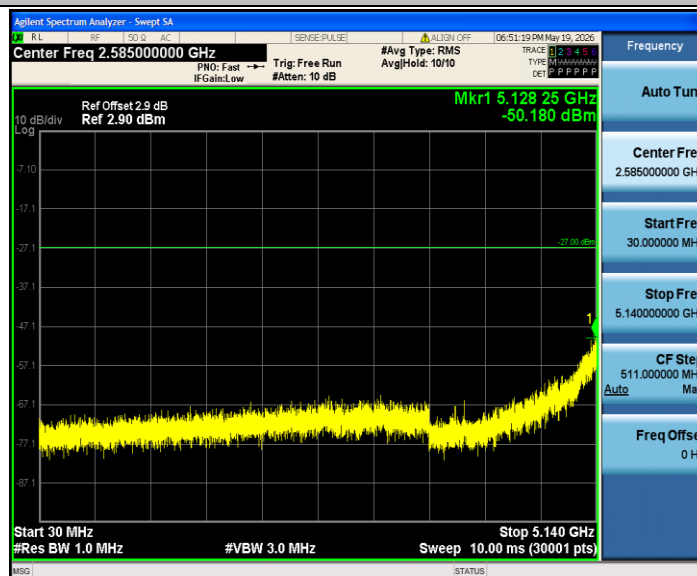
11N40SISO_Ant1_5190_30~5140



11N40SISO_Ant1_5190_5360~40000



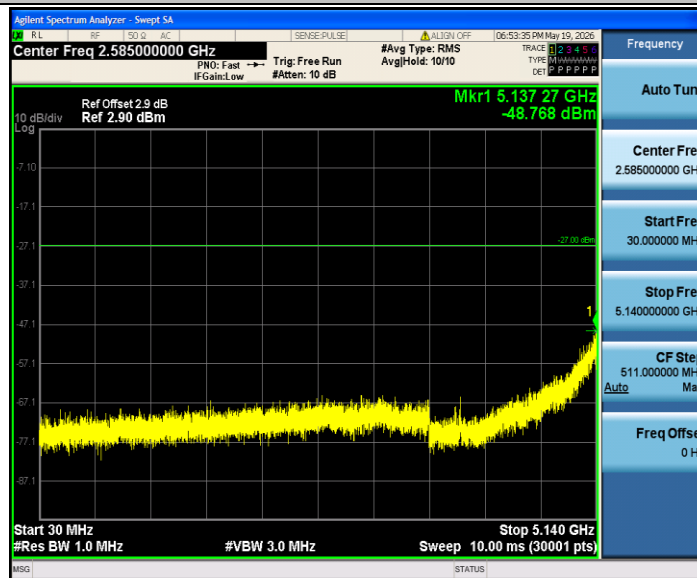
11N40SISO_Ant1_5230_30~5140



11N40SISO_Ant1_5230_5360~40000



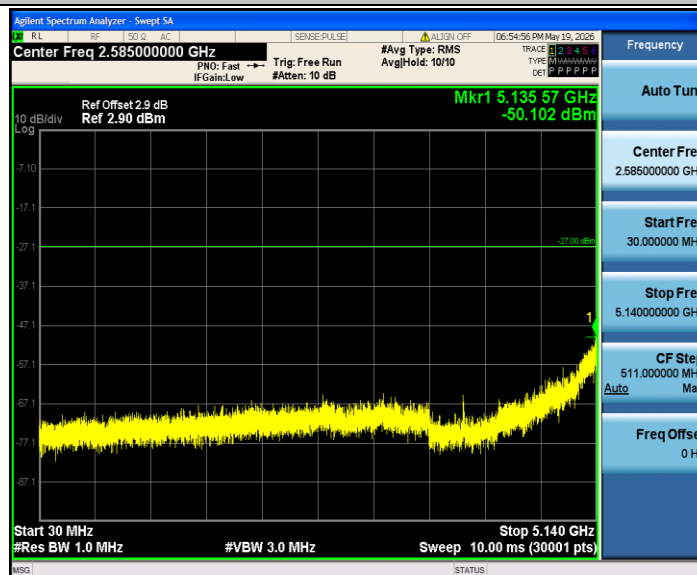
11AC20SISO_Ant1_5180_30~5140



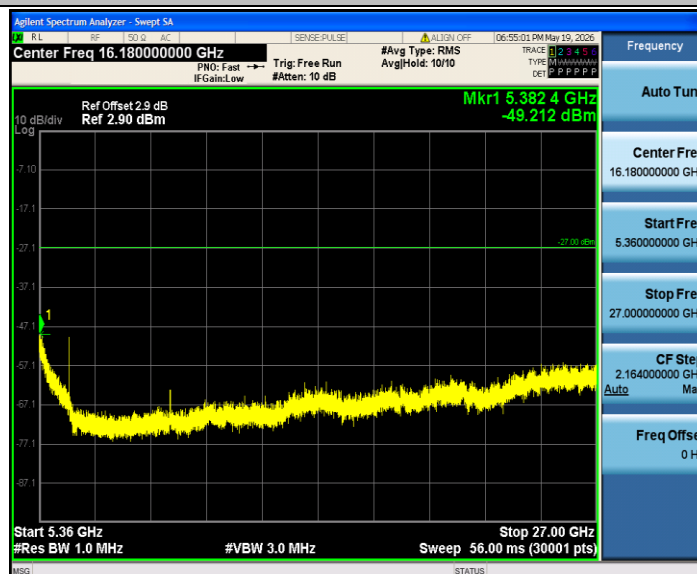
11AC20SISO_Ant1_5180_5360~40000



11AC20SISO_Ant1_5220_30~5140



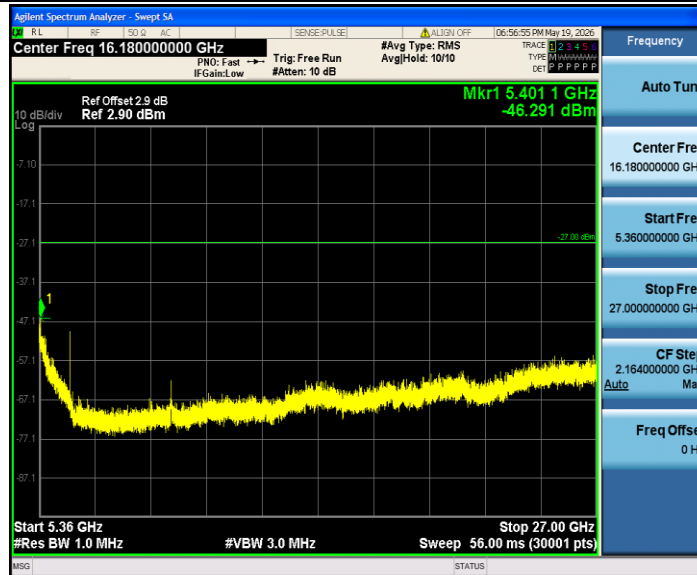
11AC20SISO_Ant1_5220_5360~40000



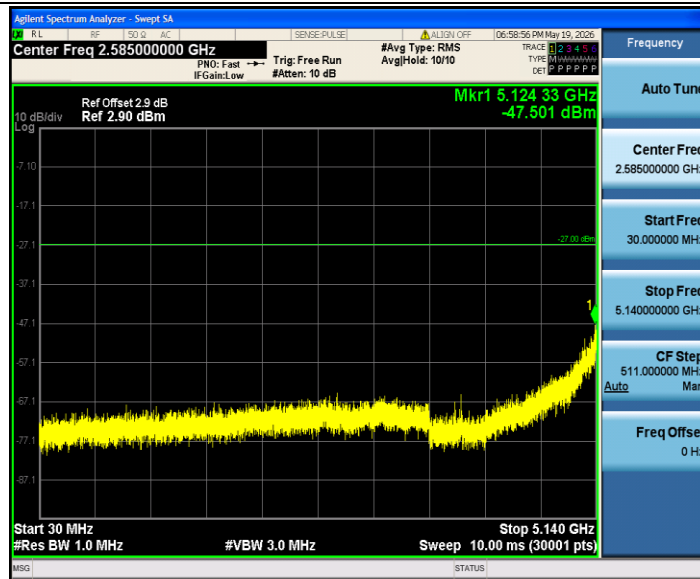
11AC20SISO_Ant1_5240_30~5140



11AC20SISO_Ant1_5240_5360~40000



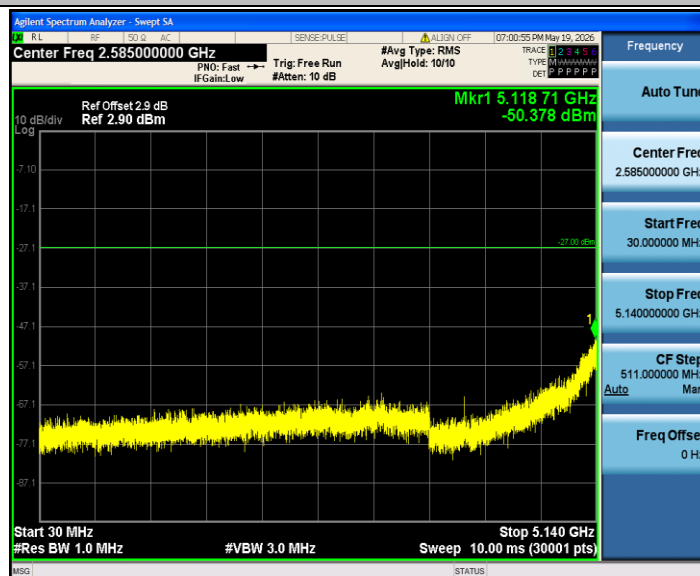
11AC40SISO_Ant1_5190_30~5140



11AC40SISO_Ant1_5190_5360~40000



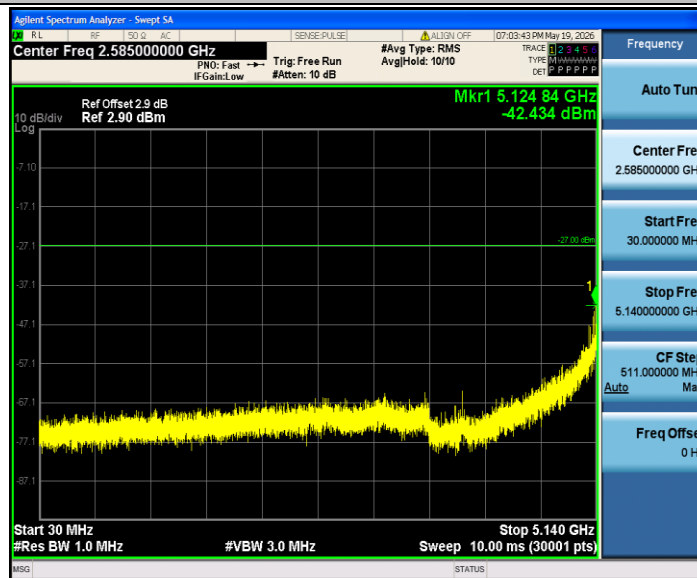
11AC40SISO_Ant1_5230_30~5140



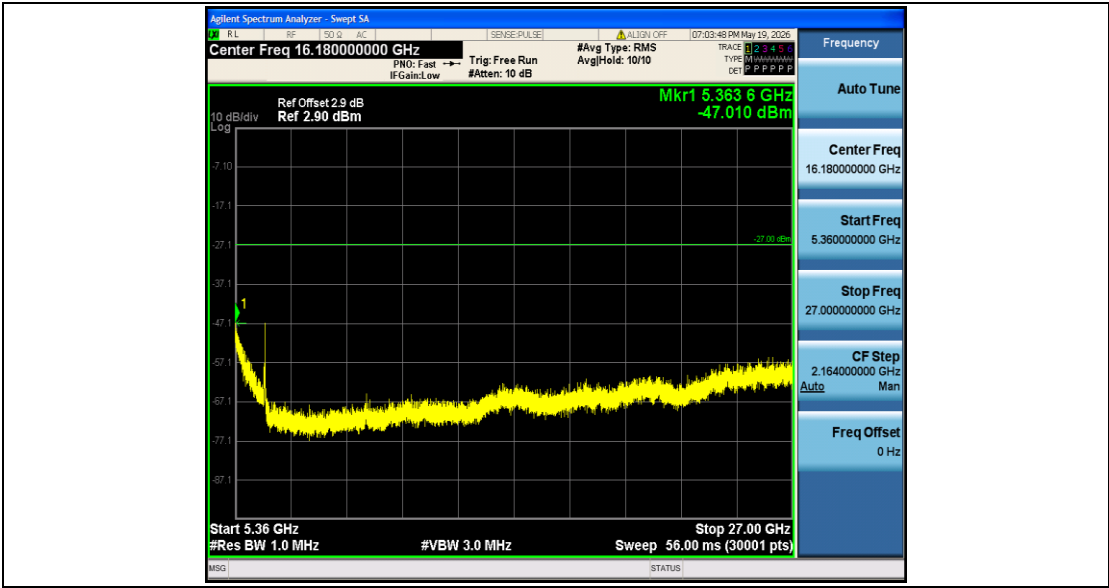
11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000



Appendix G: Emissions in Restricted Bands

Test Result

TestMod e	Antenn a	ChNam e	Freq(MH z)	Detector	Freq [MHz]	Result [dBm]	Gain [dB]	DC Factor [dB]	Result [dBUV/m]	Limit [dBUV/ m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-62.87	2.00	1.33	35.66	≤54	PASS
				AV	5143.300	-56.92	2.00	1.33	41.61	≤54	PASS
				AV	5150.000	-56.96	2.00	1.33	41.57	≤54	PASS
				Peak	4500.000	-54.39	2.00	0.00	42.81	≤68.2	PASS
				Peak	5144.000	-47.09	2.00	0.00	50.11	≤68.2	PASS
				Peak	5150.000	-47.88	2.00	0.00	49.32	≤68.2	PASS
		High	5240	AV	5350.000	-58.1	2.00	1.03	40.13	≤54	PASS
				AV	5355.600	-57.82	2.00	1.03	40.41	≤54	PASS
				AV	5460.000	-59.85	2.00	1.03	38.38	≤54	PASS
				Peak	5350.000	-50.81	2.00	0.00	46.39	≤68.2	PASS
				Peak	5455.920	-47.57	2.00	0.00	49.63	≤68.2	PASS
				Peak	5460.000	-51.98	2.00	0.00	45.22	≤68.2	PASS
11N20SI SO	Ant1	Low	5180	AV	4500.000	-62.66	2.00	0.87	35.41	≤54	PASS
				AV	5145.400	-57.03	2.00	0.87	41.04	≤54	PASS
				AV	5150.000	-57.48	2.00	0.87	40.59	≤54	PASS
				Peak	4500.000	-54.51	2.00	0.00	42.69	≤68.2	PASS
				Peak	5125.100	-47.18	2.00	0.00	50.02	≤68.2	PASS
				Peak	5150.000	-50.33	2.00	0.00	46.87	≤68.2	PASS
		High	5240	AV	5350.000	-58.31	2.00	1.12	40.01	≤54	PASS
				AV	5367.360	-57.69	2.00	1.12	40.63	≤54	PASS
				AV	5460.000	-59.53	2.00	1.12	38.79	≤54	PASS
				Peak	5350.000	-48.61	2.00	0.00	48.59	≤68.2	PASS
				Peak	5400.480	-47.51	2.00	0.00	49.69	≤68.2	PASS
				Peak	5460.000	-50.58	2.00	0.00	46.62	≤68.2	PASS
11N40SI SO	Ant1	Low	5190	AV	4500.000	-62.58	2.00	1.06	35.68	≤54	PASS
				AV	5148.900	-54.98	2.00	1.06	43.28	≤54	PASS
				AV	5150.000	-55	2.00	1.06	43.26	≤54	PASS
				Peak	4500.000	-55.16	2.00	0.00	42.04	≤68.2	PASS
				Peak	5148.900	-44.98	2.00	0.00	52.22	≤68.2	PASS
				Peak	5150.000	-42.42	2.00	0.00	54.78	≤68.2	PASS
		High	5230	AV	5350.000	-58.1	2.00	1.06	40.16	≤54	PASS
				AV	5354.180	-57.73	2.00	1.06	40.53	≤54	PASS
				AV	5460.000	-58.82	2.00	1.06	39.44	≤54	PASS
				Peak	5350.000	-48.9	2.00	0.00	48.30	≤68.2	PASS
				Peak	5415.280	-47.49	2.00	0.00	49.71	≤68.2	PASS
				Peak	5460.000	-51.12	2.00	0.00	46.08	≤68.2	PASS

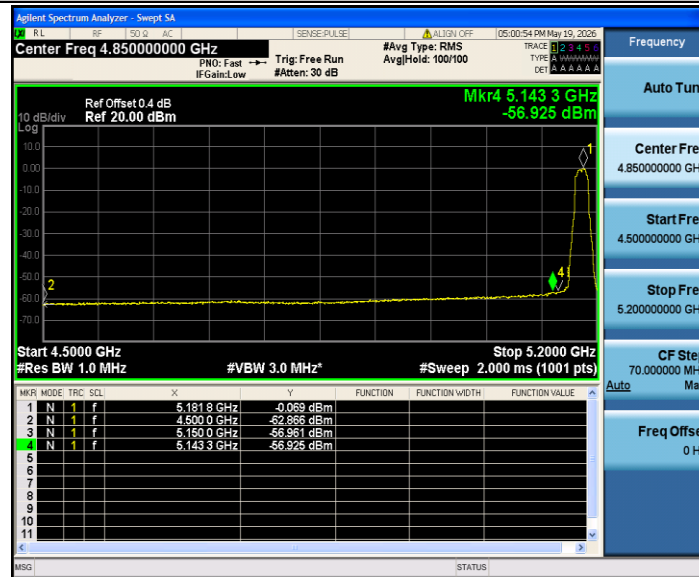
11AC20 SISO	Ant1	Low	5180	AV	4500.000	-62.63	2.00	0.79	35.36	≤54	PASS
				AV	5149.600	-56.61	2.00	0.79	41.38	≤54	PASS
				AV	5150.000	-56.89	2.00	0.79	41.10	≤54	PASS
				Peak	4500.000	-52.01	2.00	0.00	45.19	≤68.2	PASS
				Peak	5127.200	-45.89	2.00	0.00	51.31	≤68.2	PASS
				Peak	5150.000	-48.14	2.00	0.00	49.06	≤68.2	PASS
		High	5240	AV	5350.000	-58.23	2.00	0.76	39.73	≤54	PASS
				AV	5362.320	-57.56	2.00	0.76	40.40	≤54	PASS
				AV	5460.000	-59.56	2.00	0.76	38.40	≤54	PASS
				Peak	5350.000	-49.38	2.00	0.00	47.82	≤68.2	PASS
				Peak	5400.240	-46.94	2.00	0.00	50.26	≤68.2	PASS
				Peak	5460.000	-51.28	2.00	0.00	45.92	≤68.2	PASS
11AC40 SISO	Ant1	Low	5190	AV	4500.000	-62.83	2.00	0.87	35.24	≤54	PASS
				AV	5148.900	-55.73	2.00	0.87	42.34	≤54	PASS
				AV	5150.000	-55.91	2.00	0.87	42.16	≤54	PASS
				Peak	4500.000	-54.35	2.00	0.00	42.85	≤68.2	PASS
				Peak	5144.000	-46.28	2.00	0.00	50.92	≤68.2	PASS
				Peak	5150.000	-45.88	2.00	0.00	51.32	≤68.2	PASS
		High	5230	AV	5350.000	-58.41	2.00	1.06	39.85	≤54	PASS
				AV	5375.500	-57.84	2.00	1.06	40.42	≤54	PASS
				AV	5460.000	-58.71	2.00	1.06	39.55	≤54	PASS
				Peak	5350.000	-50.02	2.00	0.00	47.18	≤68.2	PASS
				Peak	5380.700	-46.74	2.00	0.00	50.46	≤68.2	PASS
				Peak	5460.000	-49.88	2.00	0.00	47.32	≤68.2	PASS
11AC80 SISO	Ant1	Low	5210	AV	4500.000	-62.83	2.00	1.18	35.55	≤54	PASS
				AV	5149.500	-55.18	2.00	1.18	43.20	≤54	PASS
				AV	5150.000	-55.17	2.00	1.18	43.21	≤54	PASS
				Peak	4500.000	-55.08	2.00	0.00	42.12	≤68.2	PASS
				Peak	5141.250	-41.31	2.00	0.00	55.89	≤68.2	PASS
				Peak	5150.000	-43.59	2.00	0.00	53.61	≤68.2	PASS
		High	5210	AV	5350.000	-57.59	2.00	1.18	40.79	≤54	PASS
				AV	5357.520	-57.32	2.00	1.18	41.06	≤54	PASS
				AV	5460.000	-59.17	2.00	1.18	39.21	≤54	PASS
				Peak	5350.000	-48.11	2.00	0.00	49.09	≤68.2	PASS
				Peak	5385.240	-46.6	2.00	0.00	50.60	≤68.2	PASS
				Peak	5460.000	-48.29	2.00	0.00	48.91	≤68.2	PASS

Note:

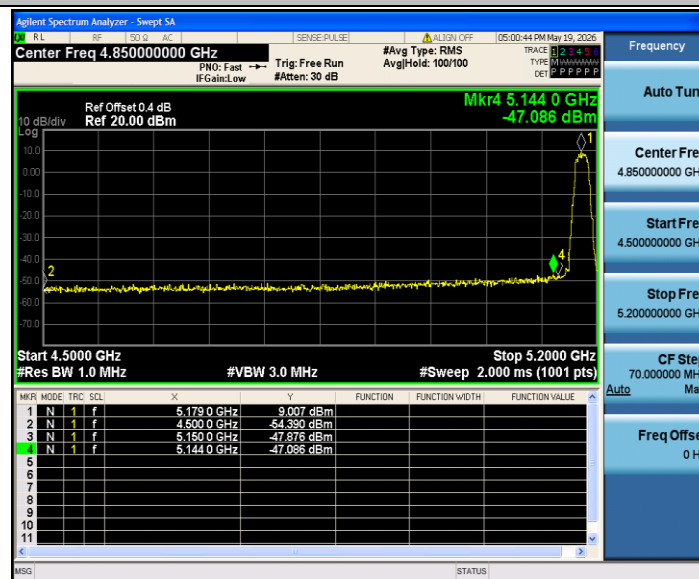
For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

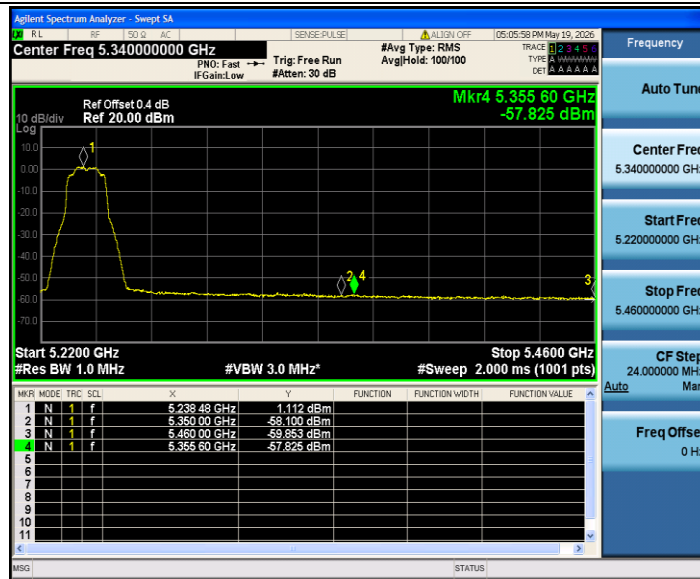
11A_Ant1_Low_5180_AV



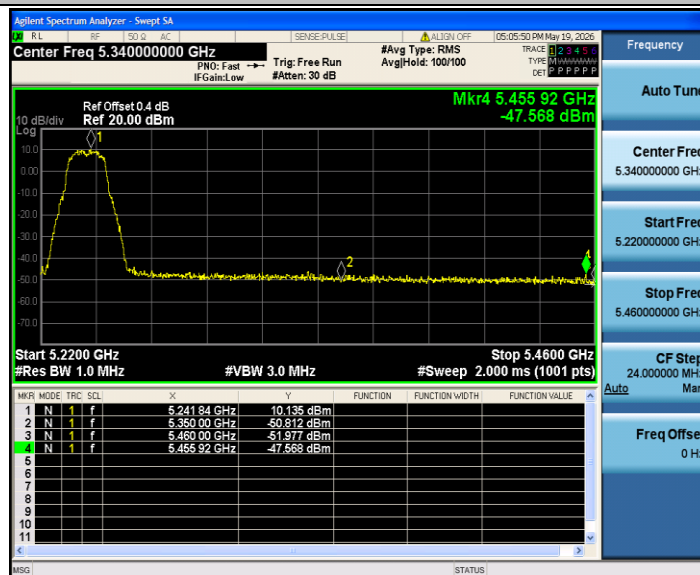
11A_Ant1_Low_5180_Peak



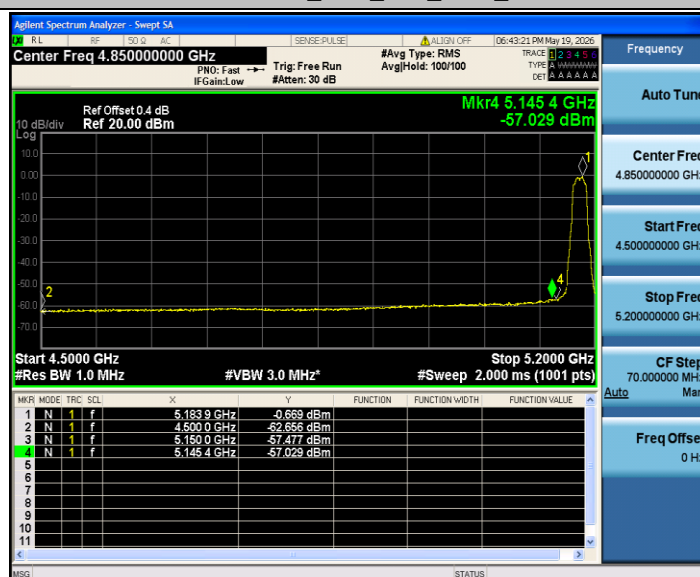
11A_Ant1_High_5240_AV



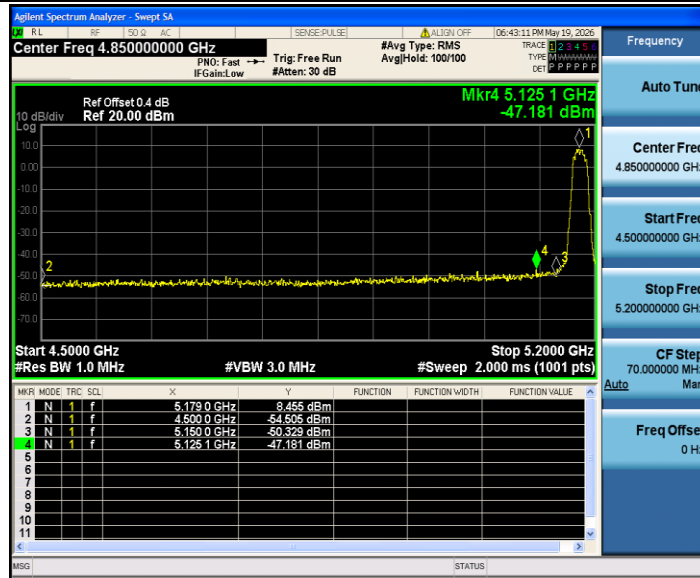
11A_Ant1_High_5240_Peak



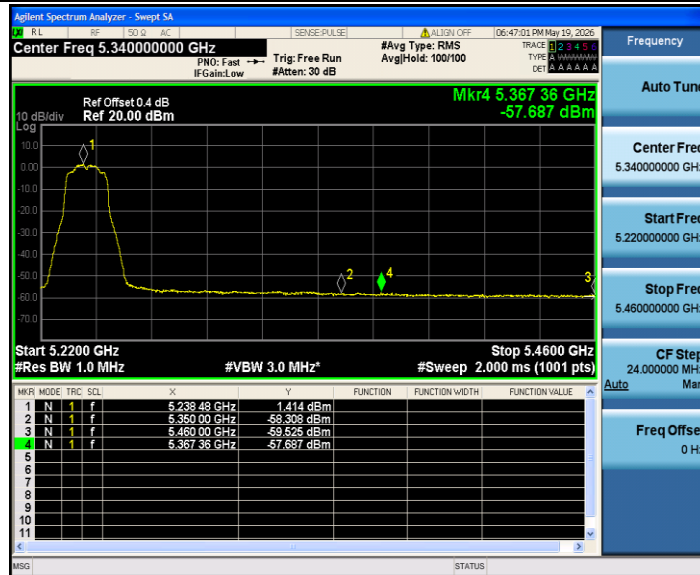
11N20SISO_Ant1_Low_5180_AV



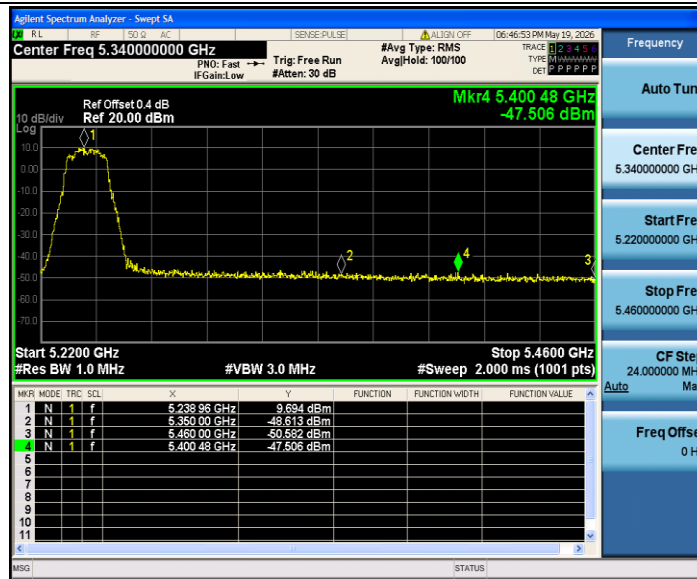
11N20SISO_Ant1_Low_5180_Peak



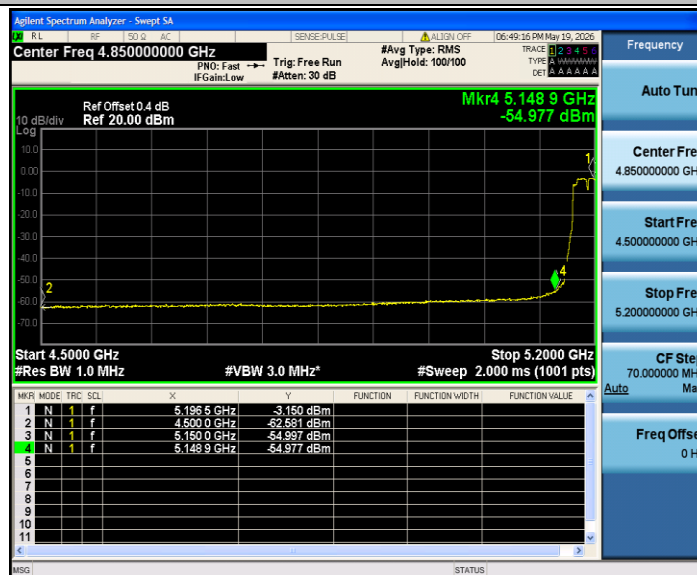
11N20SISO_Ant1_High_5240_AV



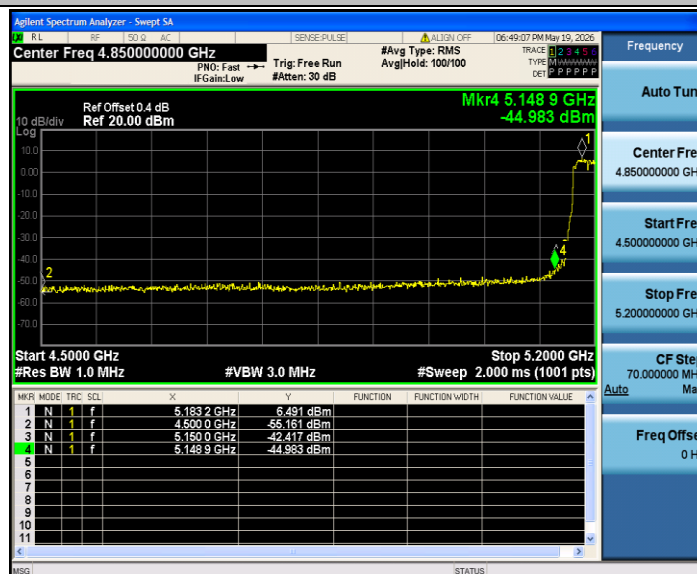
11N20SISO_Ant1_High_5240_Peak



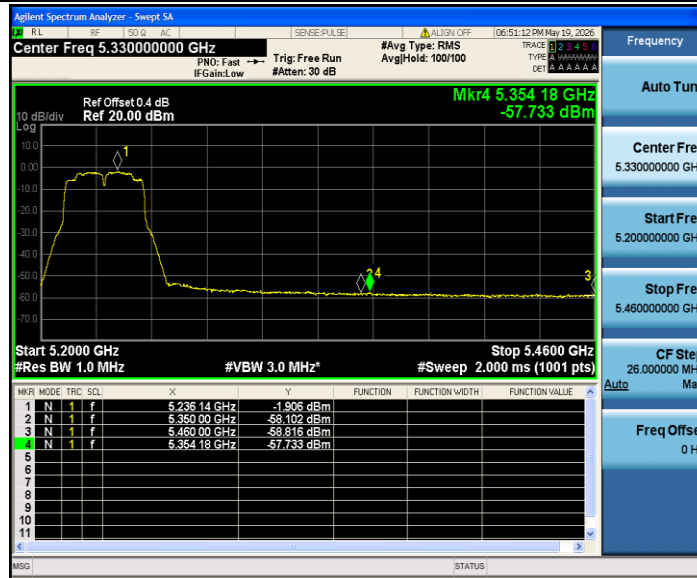
11N40SISO_Ant1_Low_5190_AV



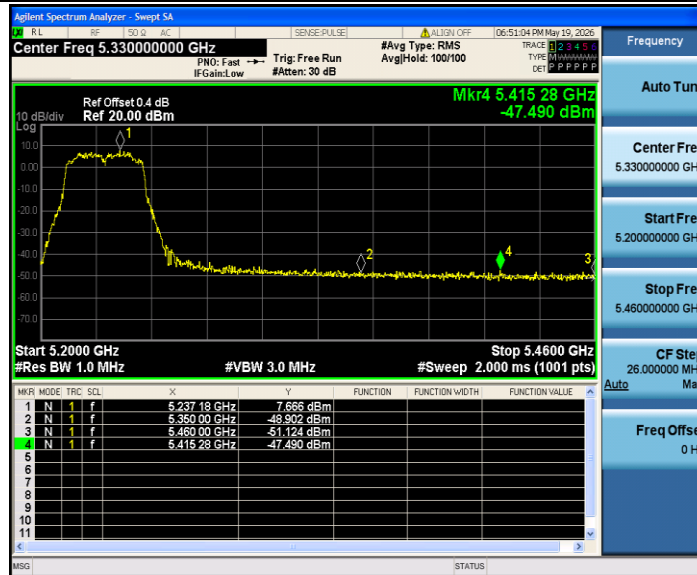
11N40SISO_Ant1_Low_5190_Peak



11N40SISO_Ant1_High_5230_AV



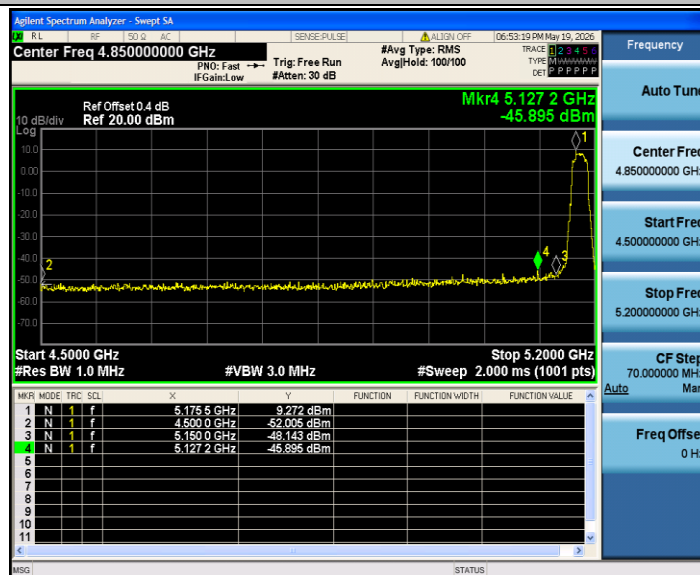
11N40SISO_Ant1_High_5230_Peak



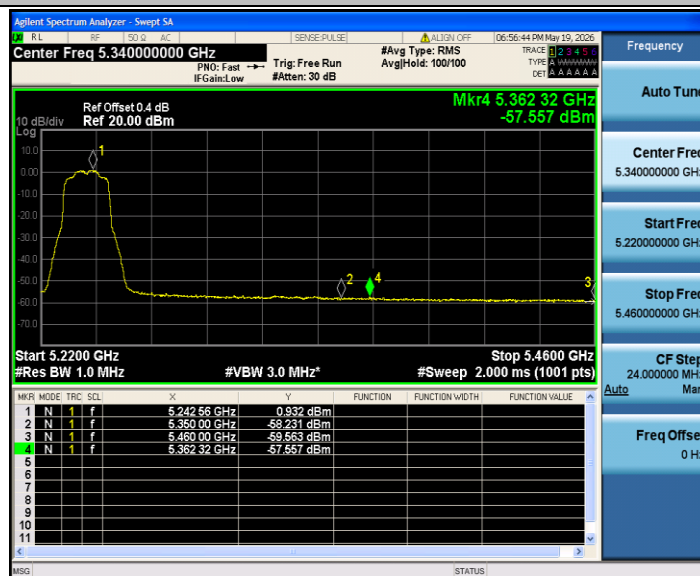
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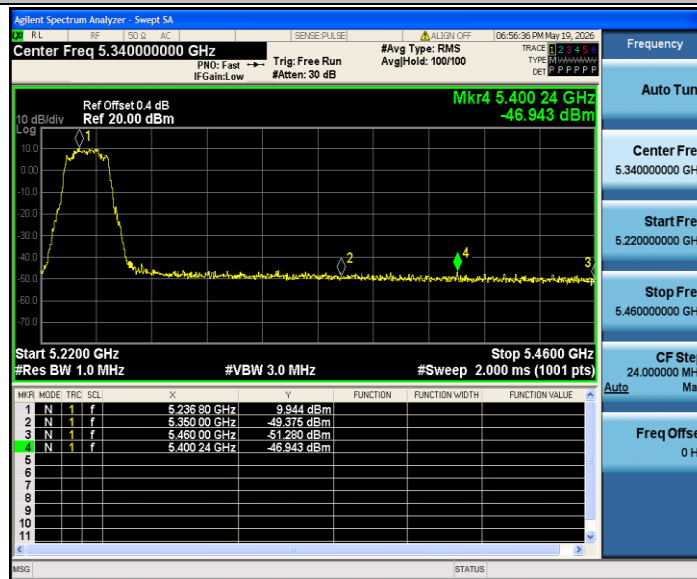
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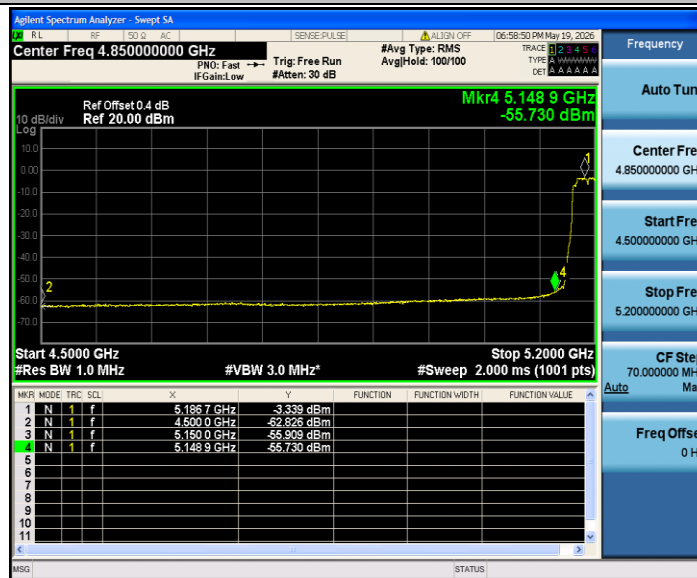
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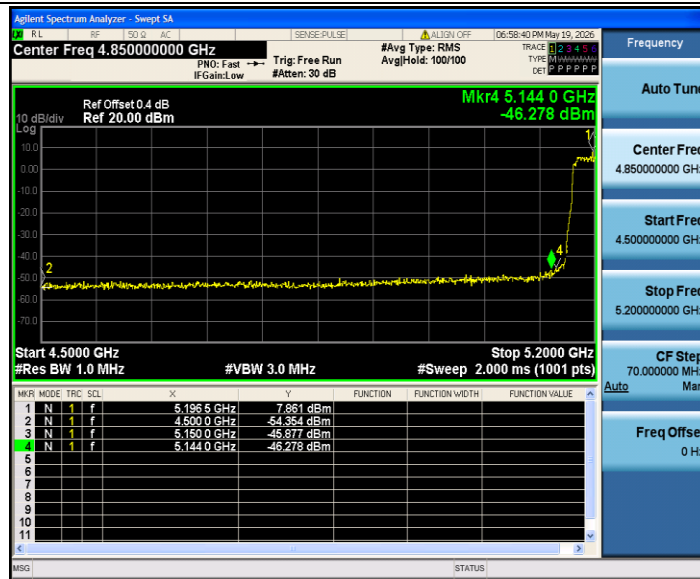
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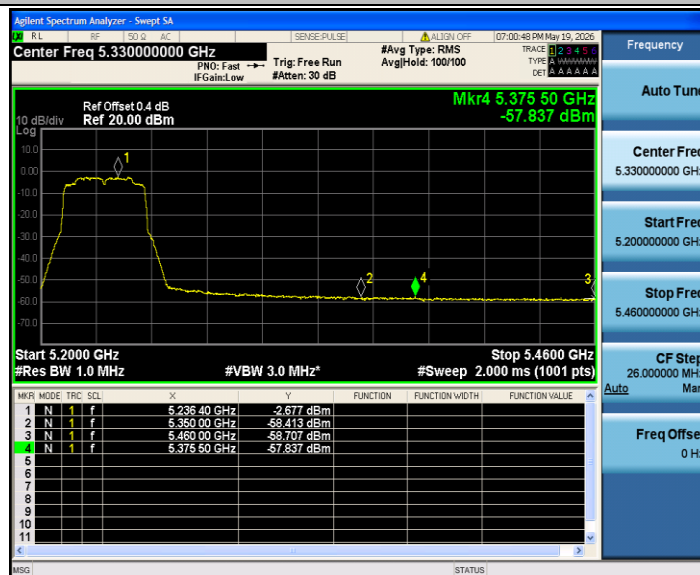
11AC40SISO_Ant1_Low_5190_AV



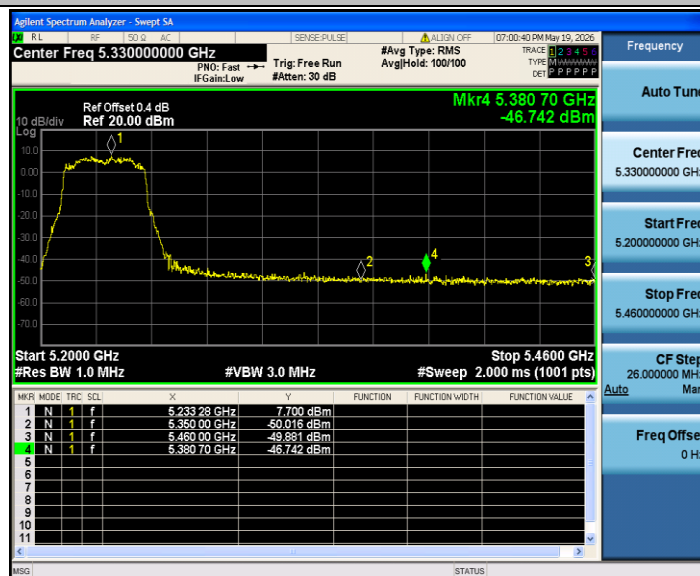
11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV



11AC40SISO_Ant1_High_5230_Peak



11AC80SISO_Ant1_Low_5210_AV



11AC80SISO_Ant1_Low_5210_Peak



11AC80SISO_Ant1_High_5210_AV



11AC80ISO_Ant1_High_5210_Peak



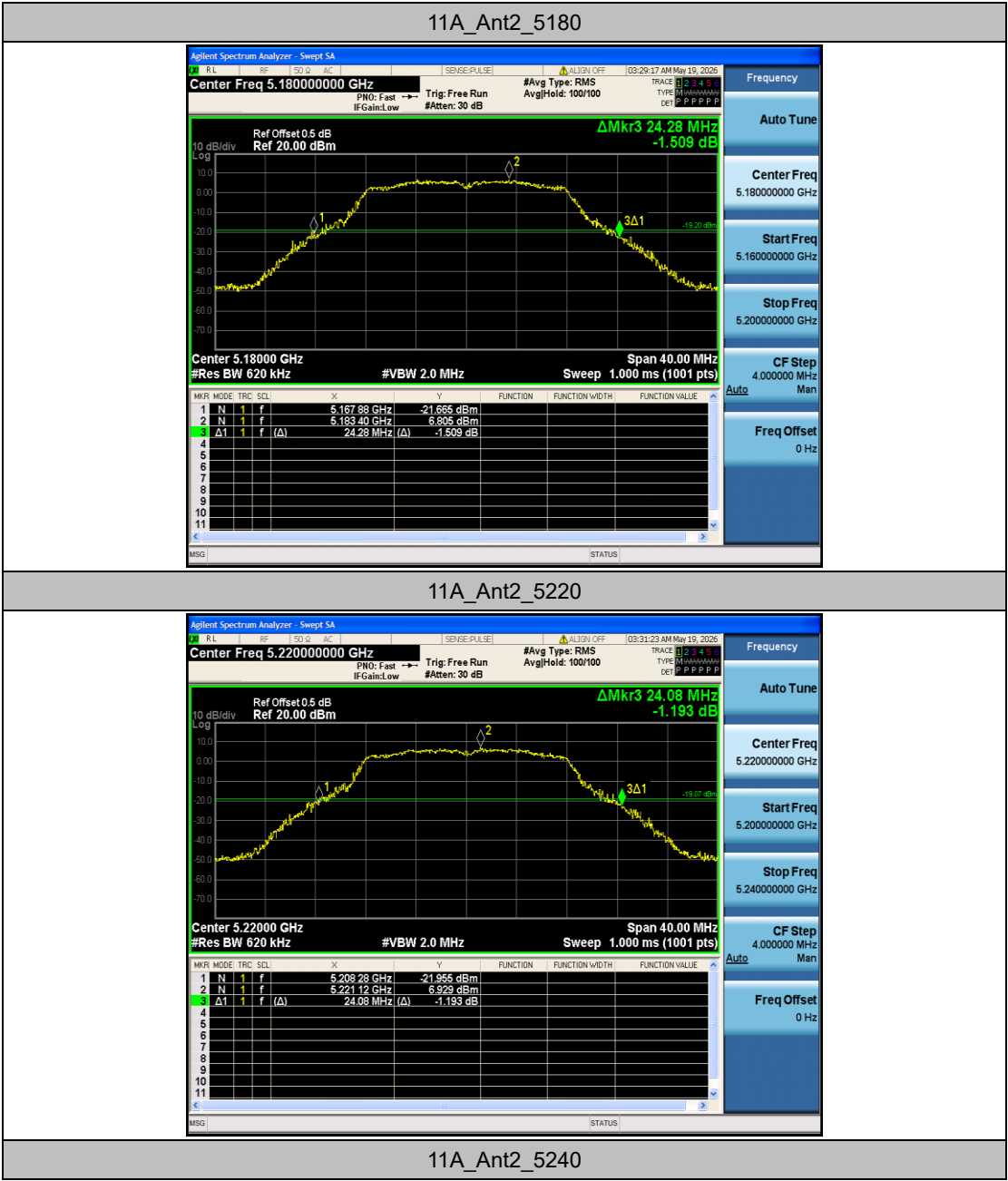
FCC Appendix RF Test Data for 5GWiFi Antenna 2

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	24.280	5167.880	5192.160	---	---
		5220	24.080	5208.280	5232.360	---	---
		5240	23.360	5227.880	5251.240	---	---
11N20SISO	Ant2	5180	23.240	5168.320	5191.560	---	---
		5220	23.320	5208.240	5231.560	---	---
		5240	23.720	5228.200	5251.920	---	---
11N40SISO	Ant2	5190	43.840	5168.400	5212.240	---	---
		5230	43.600	5208.640	5252.240	---	---
11AC20SISO	Ant2	5180	22.880	5168.640	5191.520	---	---
		5220	22.240	5208.920	5231.160	---	---
		5240	22.840	5228.720	5251.560	---	---
11AC40SISO	Ant2	5190	42.160	5168.960	5211.120	---	---
		5230	43.360	5208.560	5251.920	---	---
11AC80SISO	Ant2	5210	85.120	5167.440	5252.560	---	---

Test Graphs





11N20SISO_Ant2_5180



11N20SISO_Ant2_5220



11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230