

FCC Appendix RF Test Data

FCC ID : 2AR4E-VORMOR-M5

Company: : Shenzhen Beibo Intelligent Technology Co., Ltd.

EUT : Language Translator Device

Model Number : VORMOR-M5

Report No. : CTA25040700304

Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	26.400	5167.640	5194.040	---	---
		5220	20.520	5209.840	5230.360	---	---
		5240	22.080	5227.880	5249.960	---	---
11N20SISO	Ant1	5180	24.600	5168.400	5193.000	---	---
		5220	24.680	5208.040	5232.720	---	---
		5240	25.160	5227.440	5252.600	---	---
11N40SISO	Ant1	5190	43.120	5168.800	5211.920	---	---
		5230	45.280	5208.960	5254.240	---	---
11AC20SISO	Ant1	5180	25.920	5170.160	5196.080	---	---
		5220	20.920	5209.200	5230.120	---	---
		5240	25.360	5228.480	5253.840	---	---
11AC40SISO	Ant1	5190	43.840	5170.000	5213.840	---	---
		5230	41.600	5210.400	5252.000	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



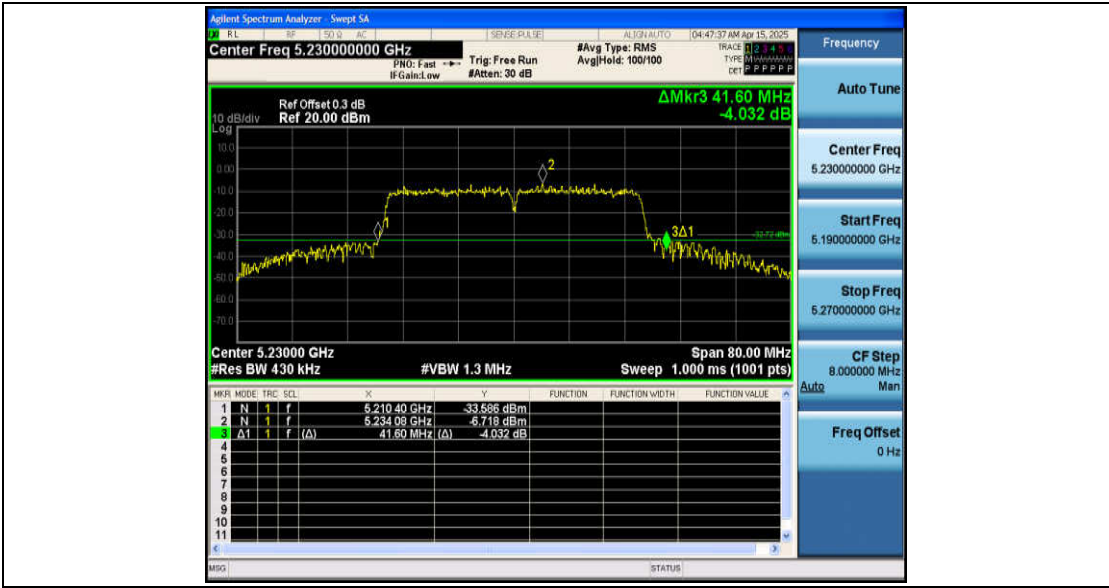
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



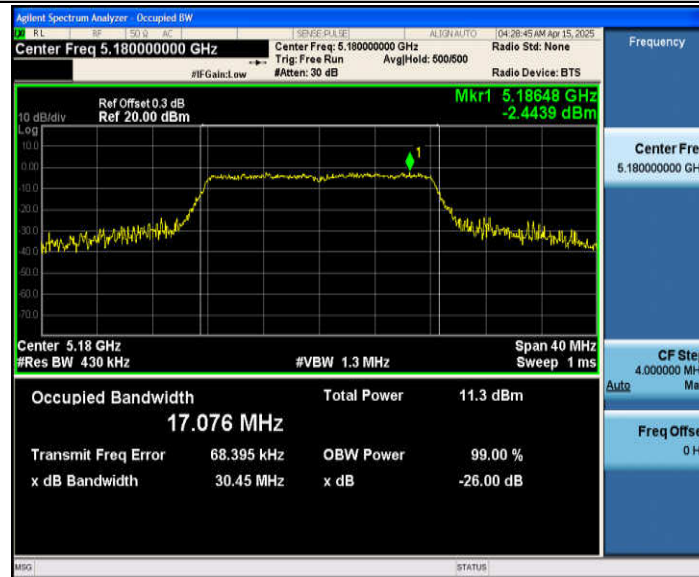
Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.076	5171.5304	5188.6064	---	---
		5220	17.087	5211.5024	5228.5894	---	---
		5240	17.030	5231.5291	5248.5591	---	---
11N20SISO	Ant1	5180	18.221	5170.9441	5189.1651	---	---
		5220	18.133	5211.0128	5229.1458	---	---
		5240	18.136	5230.9751	5249.1111	---	---
11N40SISO	Ant1	5190	36.410	5171.8143	5208.2243	---	---
		5230	36.459	5211.8481	5248.3071	---	---
11AC20SISO	Ant1	5180	17.841	5171.1317	5188.9727	---	---
		5220	17.866	5211.0902	5228.9562	---	---
		5240	17.847	5231.1182	5248.9652	---	---
11AC40SISO	Ant1	5190	36.475	5171.8298	5208.3048	---	---
		5230	36.381	5211.8612	5248.2422	---	---

Test Graphs

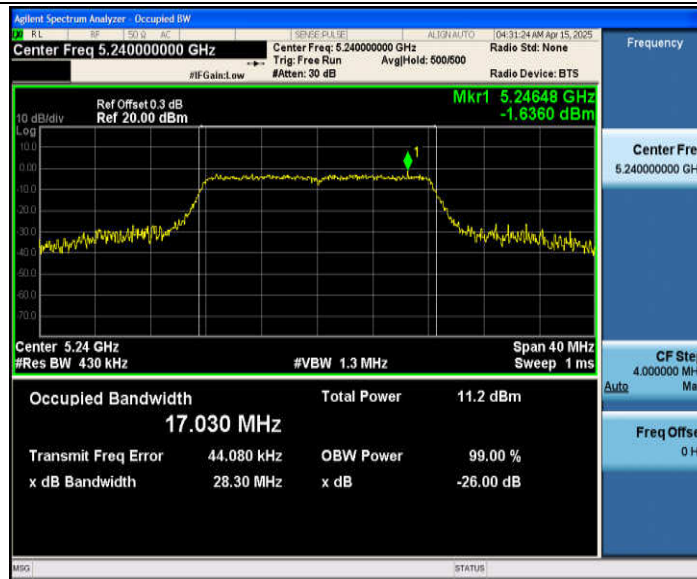
11A_Ant1_5180



11A_Ant1_5220



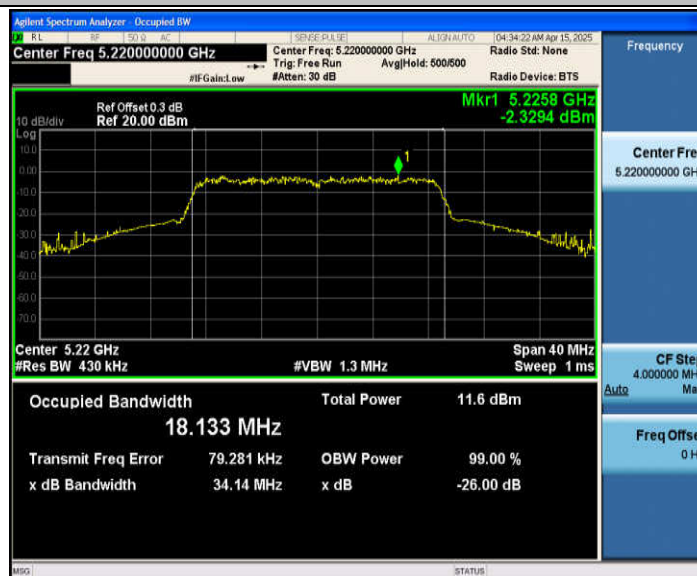
11A_Ant1_5240



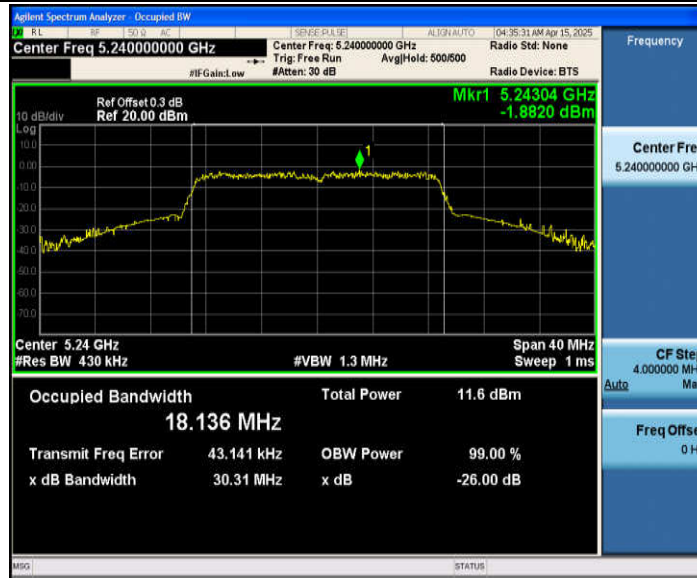
11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



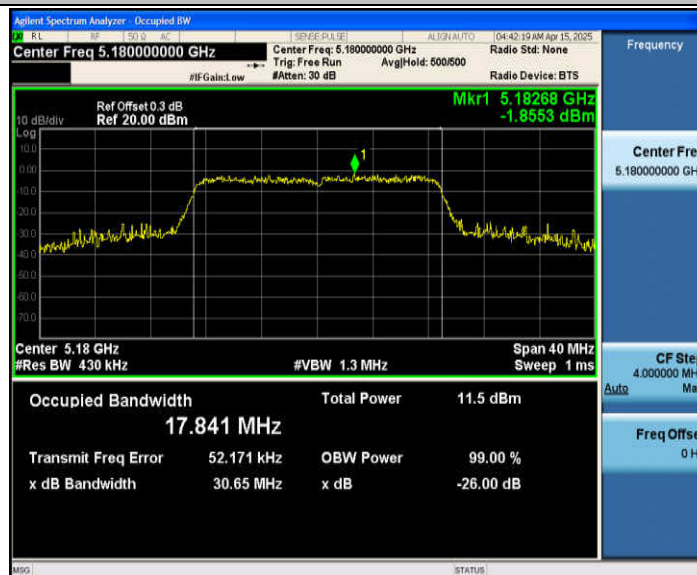
11N40SISO_Ant1_5190



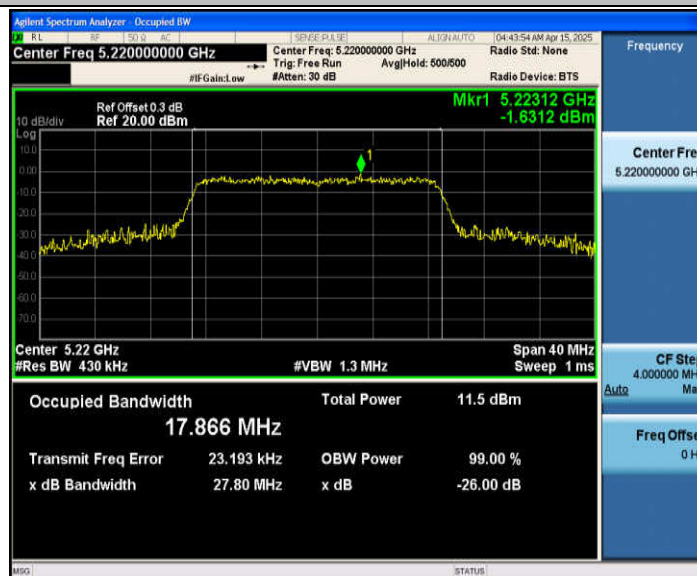
11N40SISO_Ant1_5230



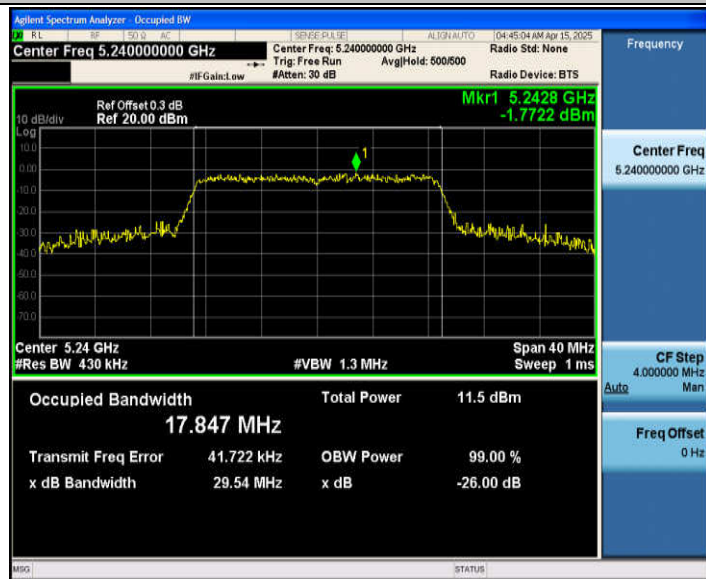
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



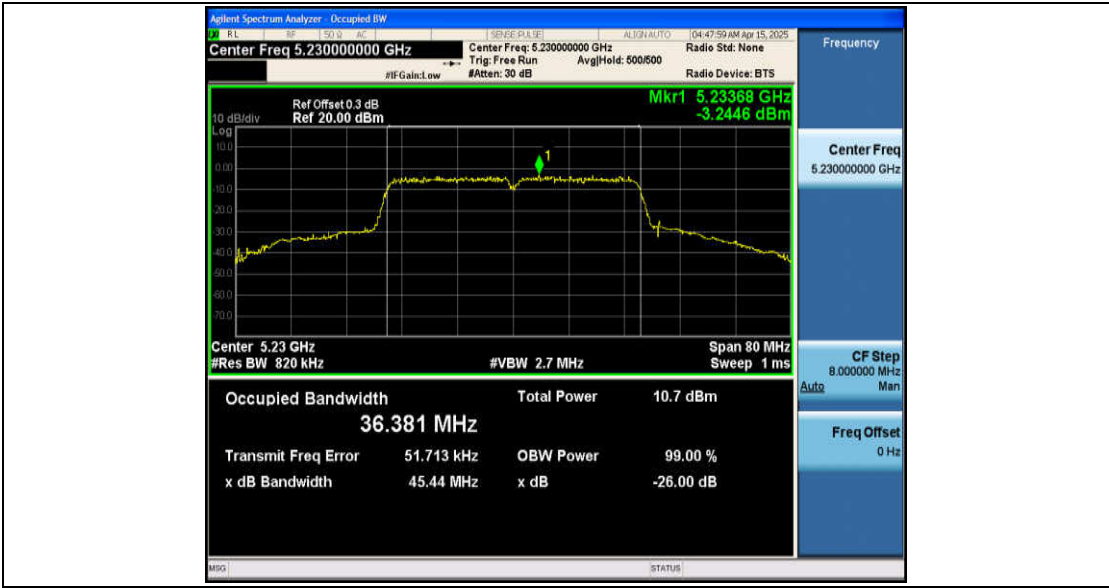
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

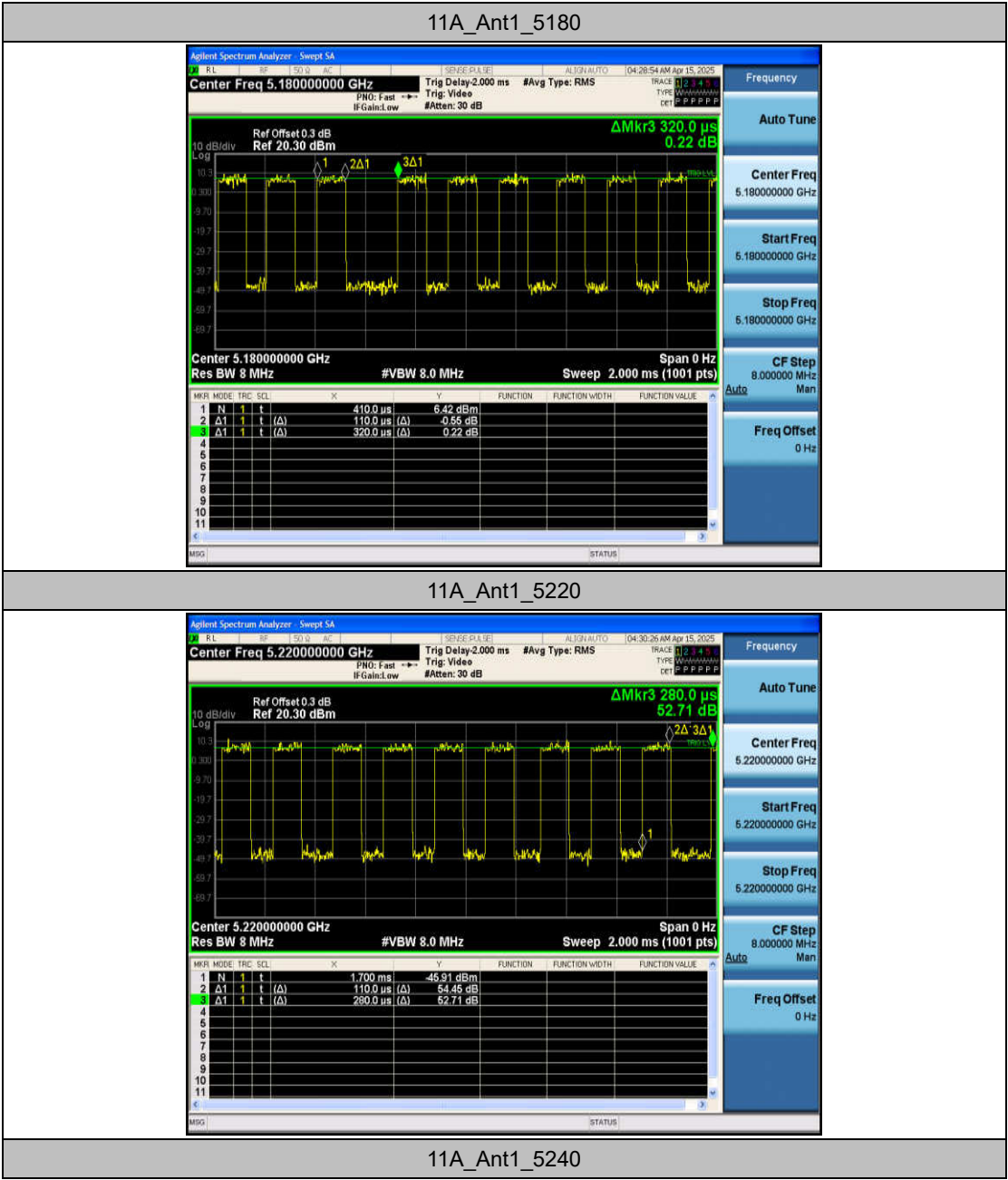


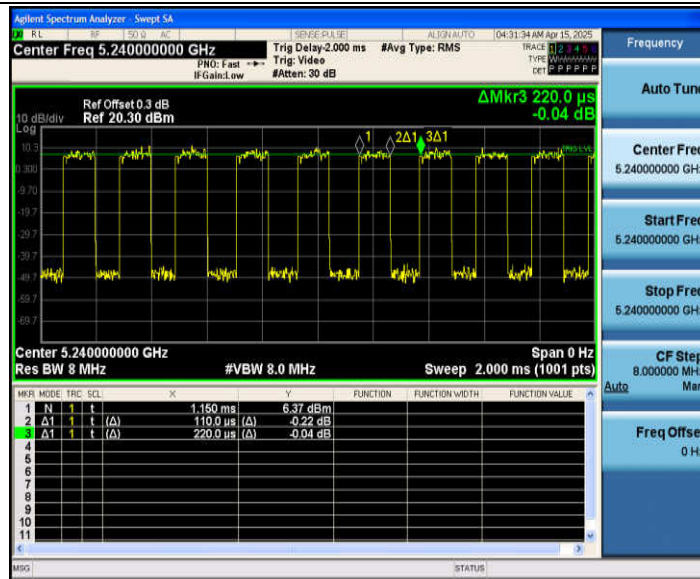
Appendix B: Duty Cycle

Test Result

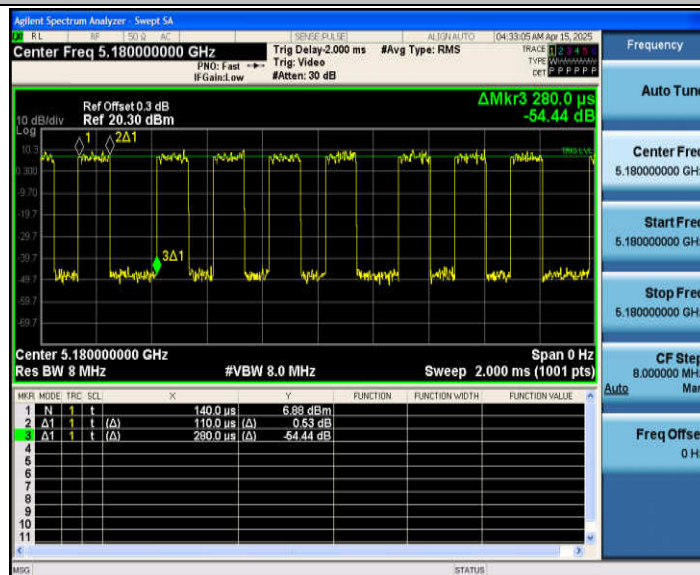
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5180	0.11	0.32	34.38	4.64	---	---
		5220	0.11	0.28	39.29	4.06	---	---
		5240	0.11	0.22	50.00	3.01	---	---
11N20SISO	Ant1	5180	0.11	0.28	39.29	4.06	---	---
		5220	0.12	0.29	41.38	3.83	---	---
		5240	0.11	0.28	39.29	4.06	---	---
11N40SISO	Ant1	5190	0.07	0.23	30.43	5.17	---	---
		5230	0.07	0.25	28.00	5.53	---	---
11AC20SISO	Ant1	5180	0.12	0.30	40.00	3.98	---	---
		5220	0.12	0.24	50.00	3.01	---	---
		5240	0.12	0.31	38.71	4.12	---	---
11AC40SISO	Ant1	5190	0.08	0.29	27.59	5.59	---	---
		5230	0.08	0.31	25.81	5.88	---	---

Test Graphs

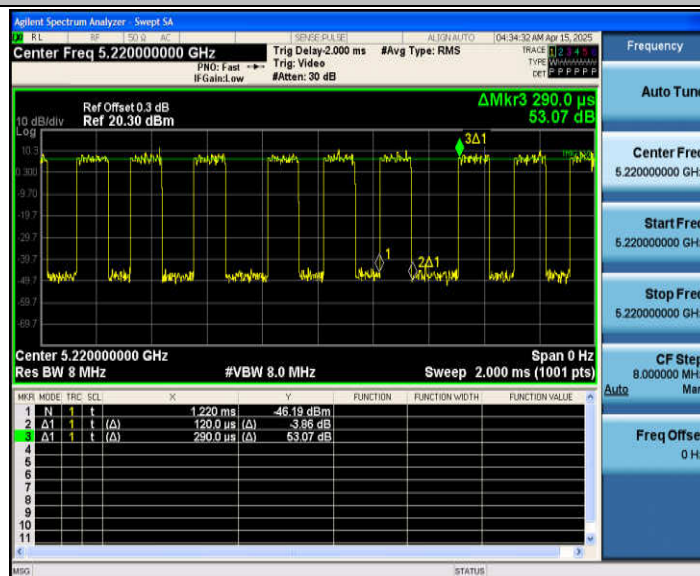




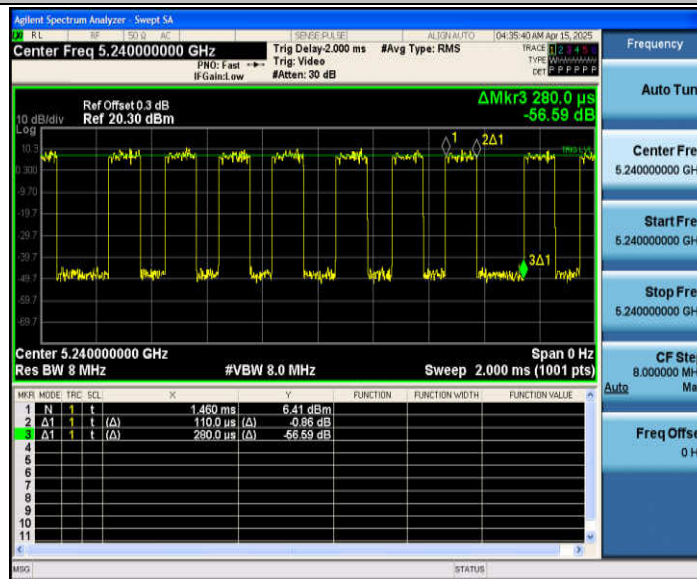
11N20SISO_Ant1_5180



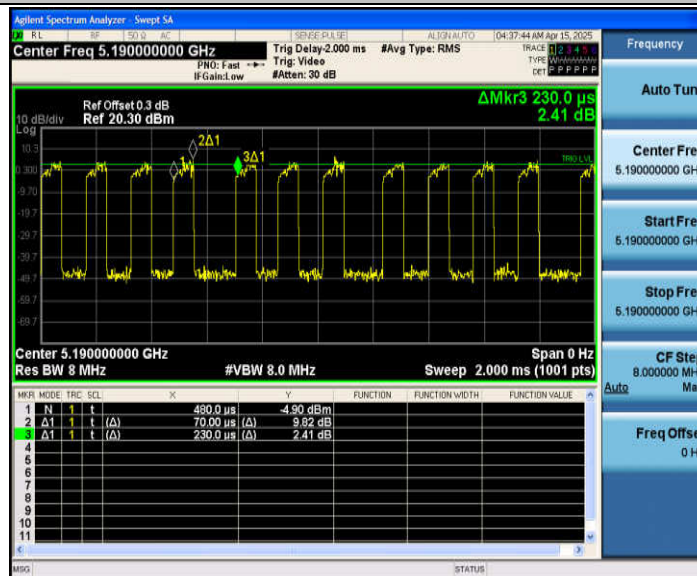
11N20SISO_Ant1_5220



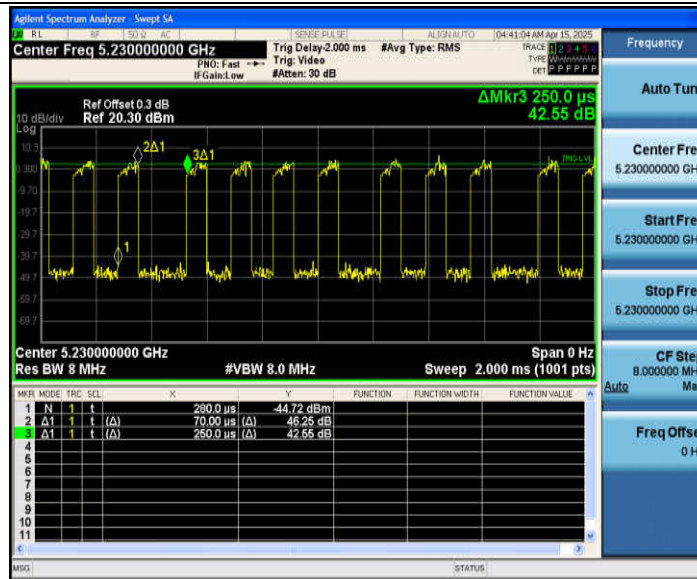
11N20SISO_Ant1_5240



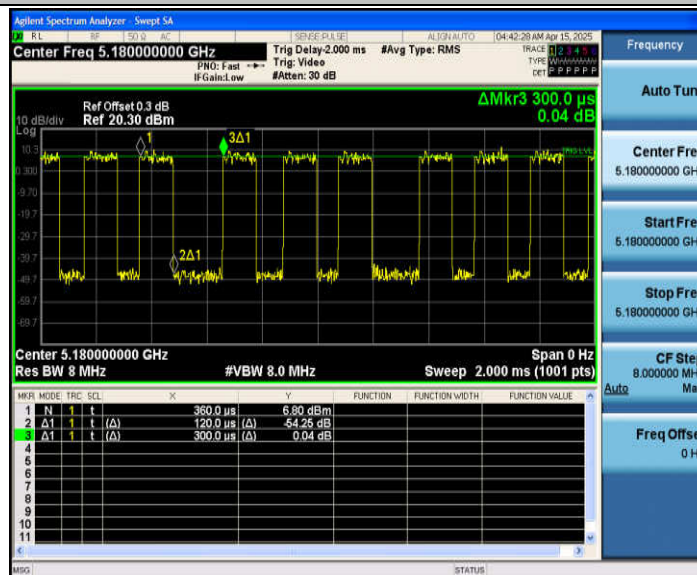
11N40SISO_Ant1_5190



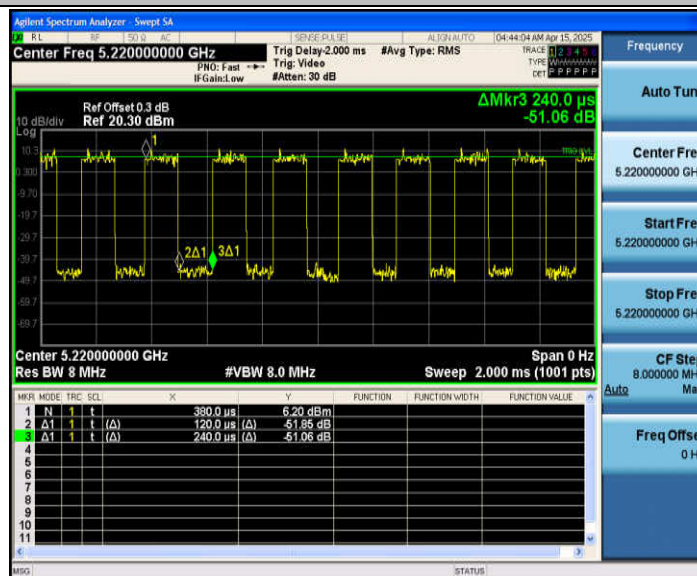
11N40SISO_Ant1_5230



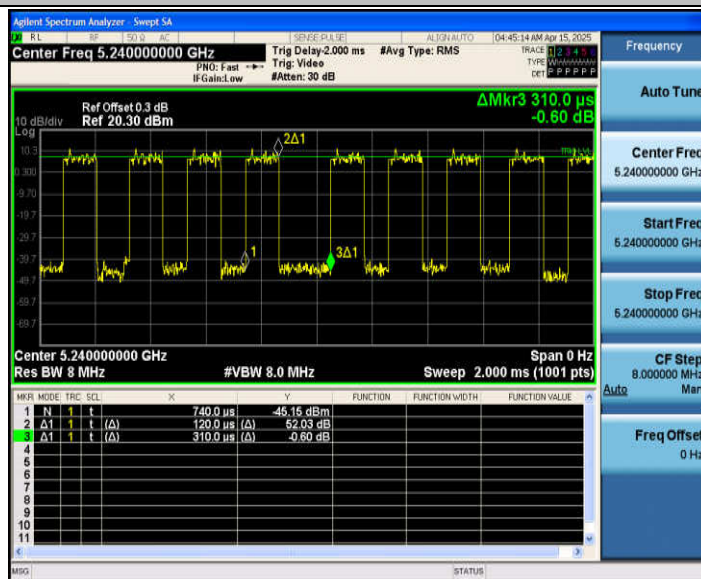
11AC20SISO_Ant1_5180



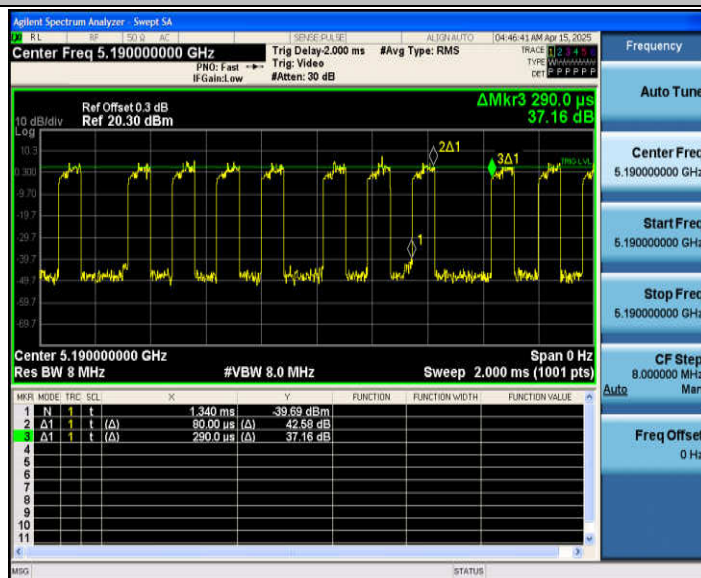
11AC20SISO_Ant1_5220



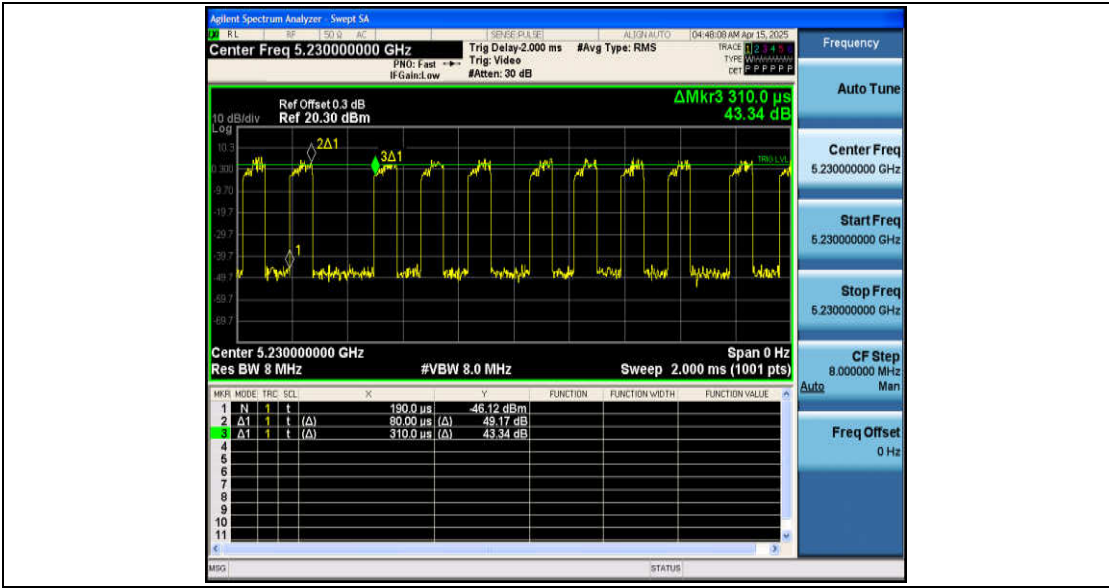
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	1.98	34.38	4.64	6.62	≤23.98	PASS
		5220	1.96	39.29	4.06	6.02	≤23.98	PASS
		5240	1.96	50.00	3.01	4.97	≤23.98	PASS
11N20SISO	Ant1	5180	1.80	39.29	4.06	5.86	≤23.98	PASS
		5220	1.90	41.38	3.83	5.73	≤23.98	PASS
		5240	1.99	39.29	4.06	6.05	≤23.98	PASS
11N40SISO	Ant1	5190	-0.82	30.43	5.17	4.35	≤23.98	PASS
		5230	-0.80	28.00	5.53	4.73	≤23.98	PASS
11AC20SISO	Ant1	5180	1.98	40.00	3.98	5.96	≤23.98	PASS
		5220	2.08	50.00	3.01	5.09	≤23.98	PASS
		5240	2.07	38.71	4.12	6.19	≤23.98	PASS
11AC40SISO	Ant1	5190	-0.64	27.59	5.59	4.95	≤23.98	PASS
		5230	-0.42	25.81	5.88	5.46	≤23.98	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Duty factor (dB)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-8.602	4.64	-3.96	≤11.00	PASS
		5220	-8.821	4.06	-4.76	≤11.00	PASS
		5240	-8.444	3.01	-5.43	≤11.00	PASS
11N20SISO	Ant1	5180	-8.714	4.06	-4.65	≤11.00	PASS
		5220	-8.616	3.83	-4.79	≤11.00	PASS
		5240	-8.419	4.06	-4.36	≤11.00	PASS
11N40SISO	Ant1	5190	-14.420	5.17	-9.25	≤11.00	PASS
		5230	-13.865	5.53	-8.34	≤11.00	PASS
11AC20SISO	Ant1	5180	-8.426	3.98	-4.45	≤11.00	PASS
		5220	-8.841	3.01	-5.83	≤11.00	PASS
		5240	-8.705	4.12	-4.59	≤11.00	PASS
11AC40SISO	Ant1	5190	-13.781	5.59	-8.19	≤11.00	PASS
		5230	-13.655	5.88	-7.78	≤11.00	PASS

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



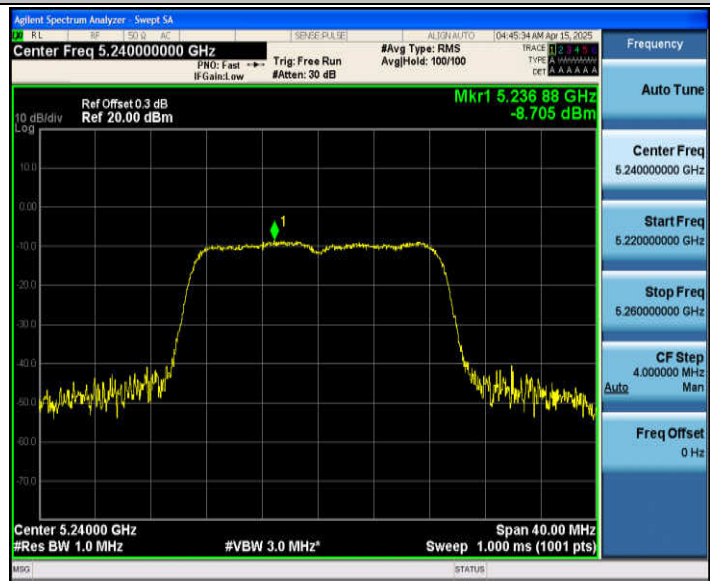
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



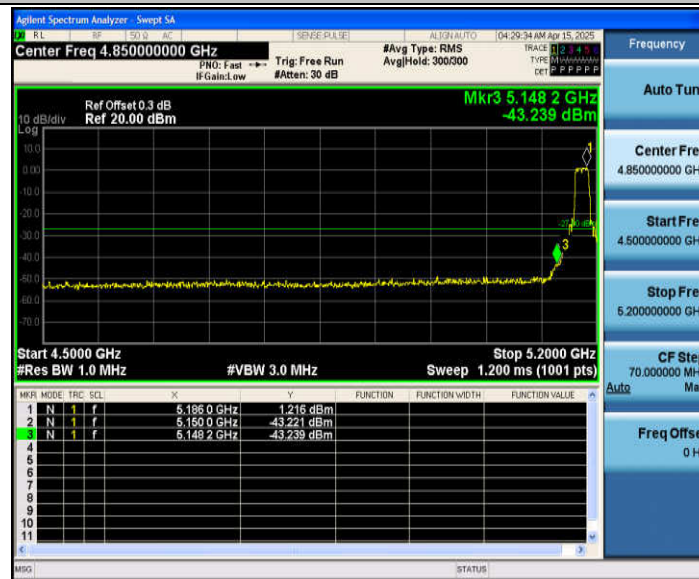
Appendix E: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-43.24	≤ -27	PASS
		High	5240	-49.49	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-40.16	≤ -27	PASS
		High	5240	-50.21	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-42.04	≤ -27	PASS
		High	5230	-50.24	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-39.84	≤ -27	PASS
		High	5240	-50.24	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-38.93	≤ -27	PASS
		High	5230	-49.85	≤ -27	PASS

Test Graphs B1

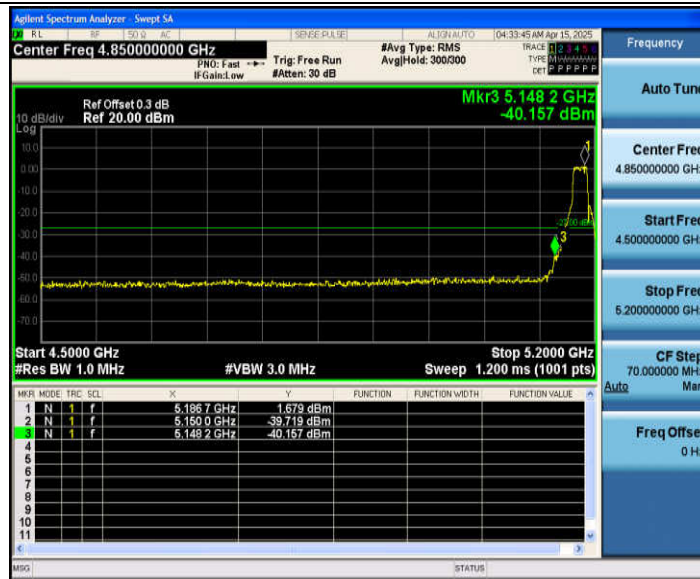
11A_Ant1_Low_5180



11A_Ant1_High_5240



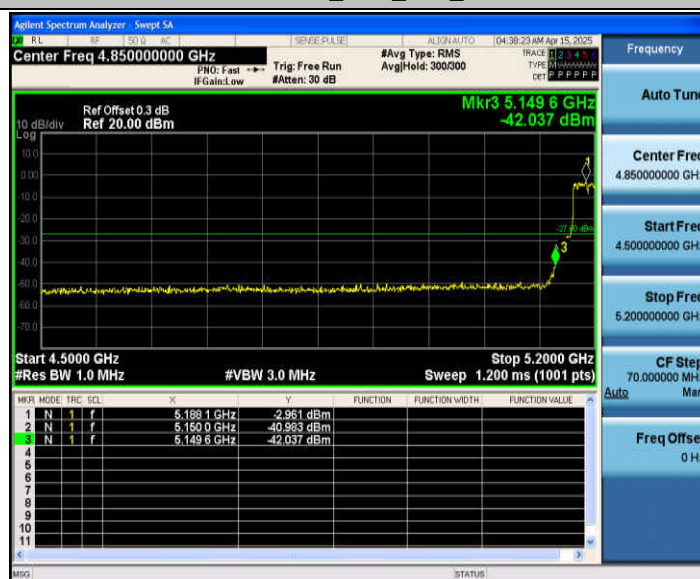
11N20SISO_Ant1_Low_5180



11N20ISO_Ant1_High_5240



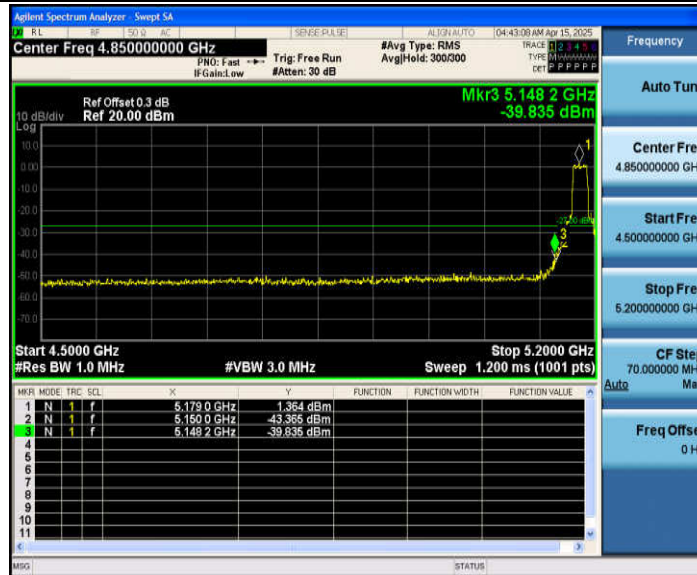
11N40ISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



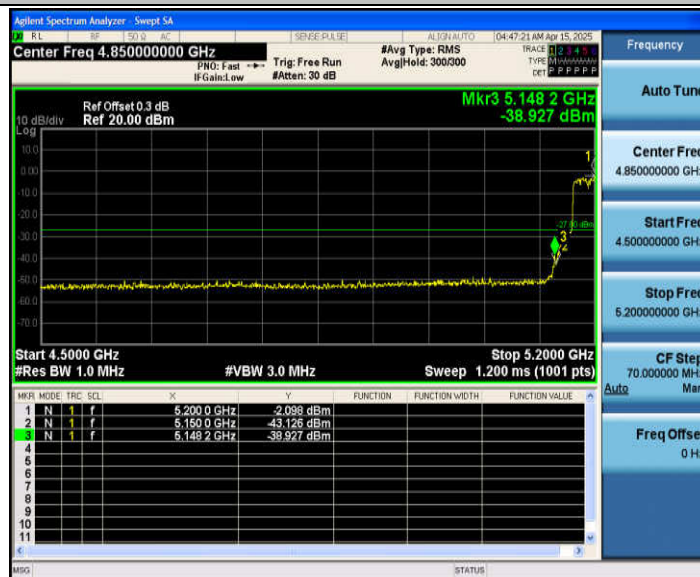
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



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	3166.18	-62.29	≤-27	PASS
			5360~40000	26148.11	-52.61	≤-27	PASS
		5220	30~5140	2510.22	-62.42	≤-27	PASS
			5360~40000	26681.89	-51.62	≤-27	PASS
		5240	30~5140	2461	-42.61	≤-27	PASS
			5360~40000	26766.29	-52.64	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	2467.98	-50.97	≤-27	PASS
			5360~40000	26653.04	-52.29	≤-27	PASS
		5220	30~5140	2421.48	-60.91	≤-27	PASS
			5360~40000	26591.73	-52.54	≤-27	PASS
		5240	30~5140	2420.97	-59.92	≤-27	PASS
			5360~40000	26169.02	-52.26	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	2460.66	-41.59	≤-27	PASS
			5360~40000	26774.22	-52.64	≤-27	PASS
		5230	30~5140	2445.33	-46.39	≤-27	PASS
			5360~40000	26244.76	-51.99	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	2460.83	-41.55	≤-27	PASS
			5360~40000	26101.22	-52.2	≤-27	PASS
		5220	30~5140	2460.83	-42.11	≤-27	PASS
			5360~40000	25340.93	-51.57	≤-27	PASS
		5240	30~5140	2460.83	-41.97	≤-27	PASS
			5360~40000	26151.71	-51.8	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	2461	-41.27	≤-27	PASS
			5360~40000	25661.93	-52.16	≤-27	PASS
		5230	30~5140	2460.83	-41.75	≤-27	PASS
			5360~40000	26241.16	-52.45	≤-27	PASS

Test Graphs

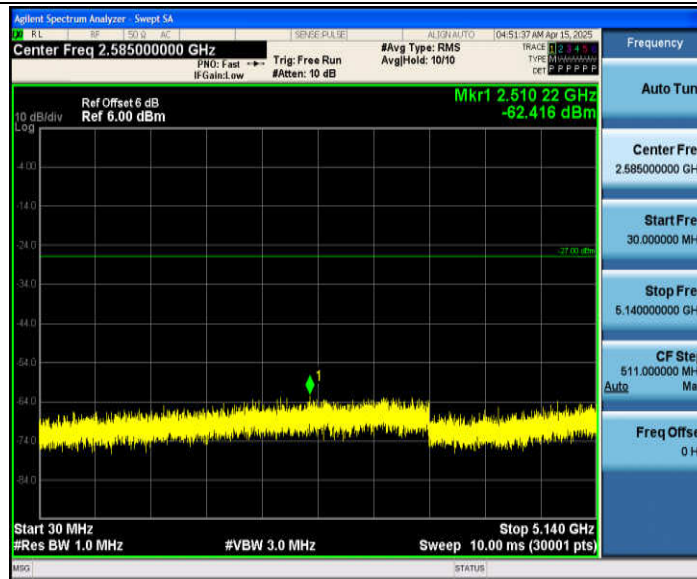
11A_Ant1_5180_30~5140



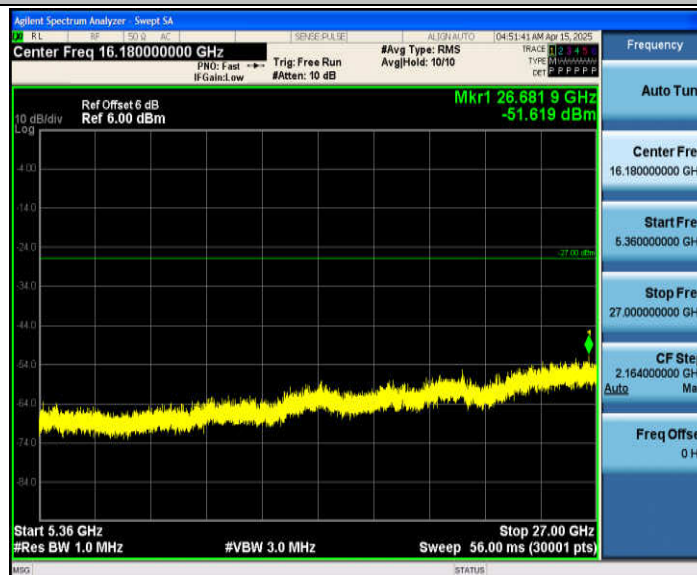
11A_Ant1_5180_5360~40000



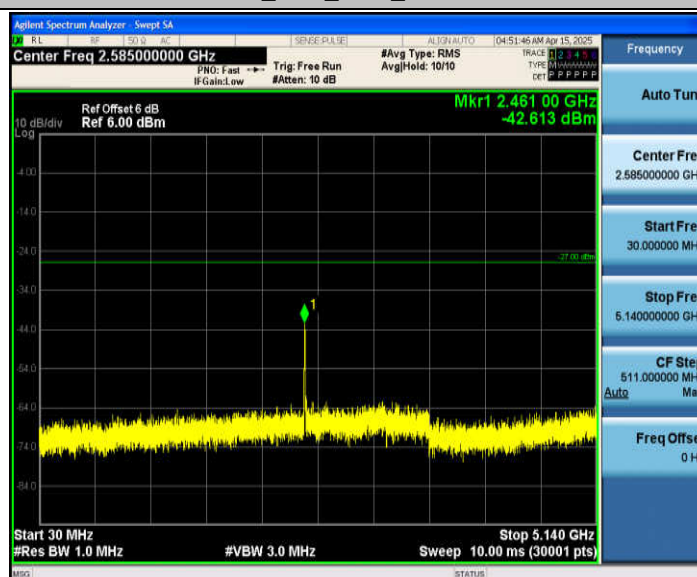
11A_Ant1_5220_30~5140



11A_Ant1_5220_5360~40000



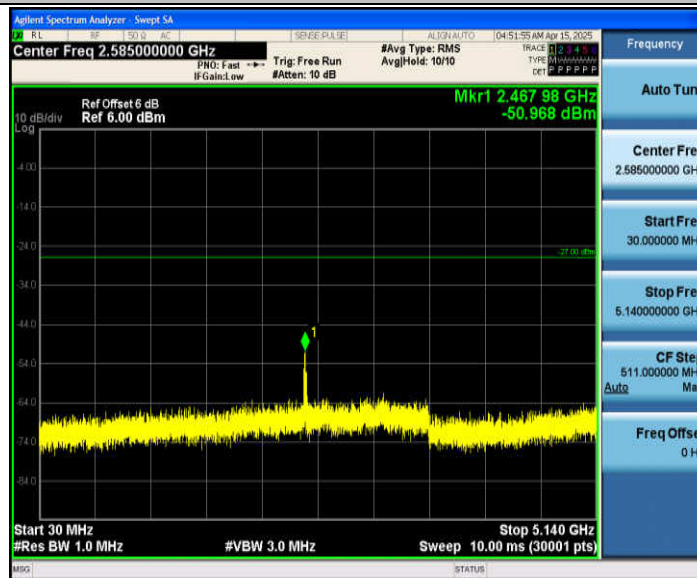
11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~40000



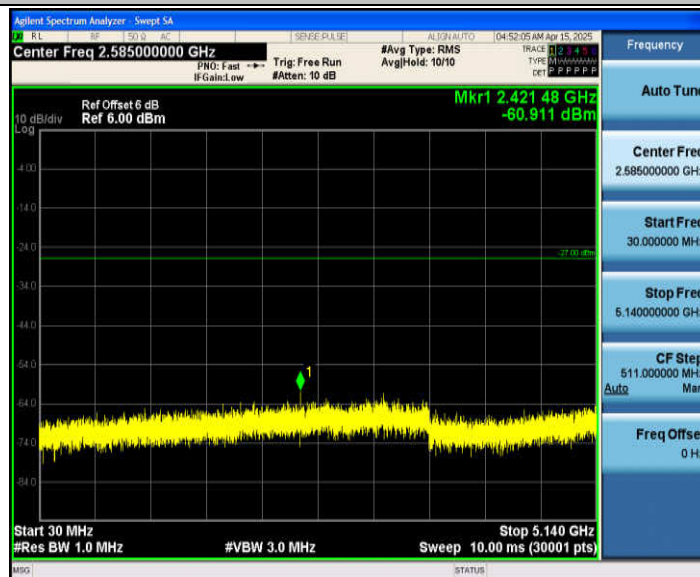
11N20SISO_Ant1_5180_30~5140



11N20SISO_Ant1_5180_5360~40000



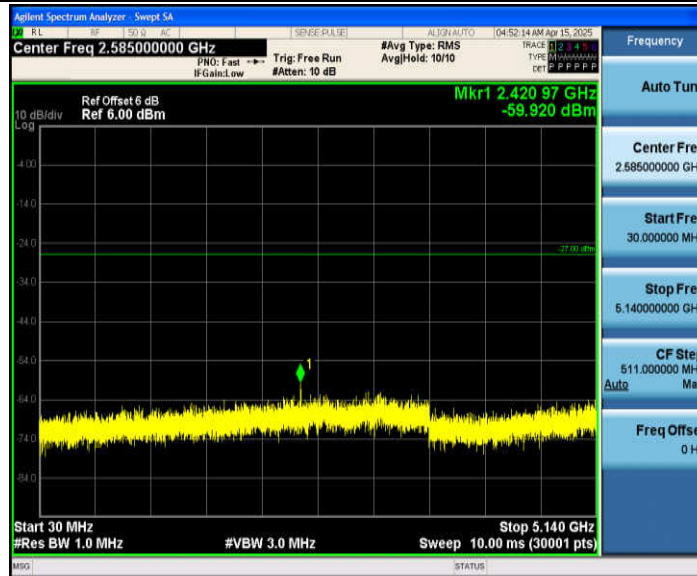
11N20SISO_Ant1_5220_30~5140



11N20SISO_Ant1_5220_5360~40000



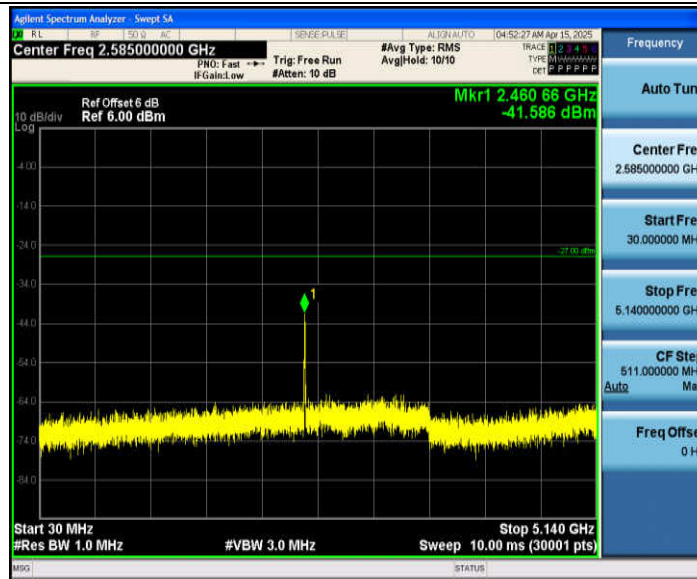
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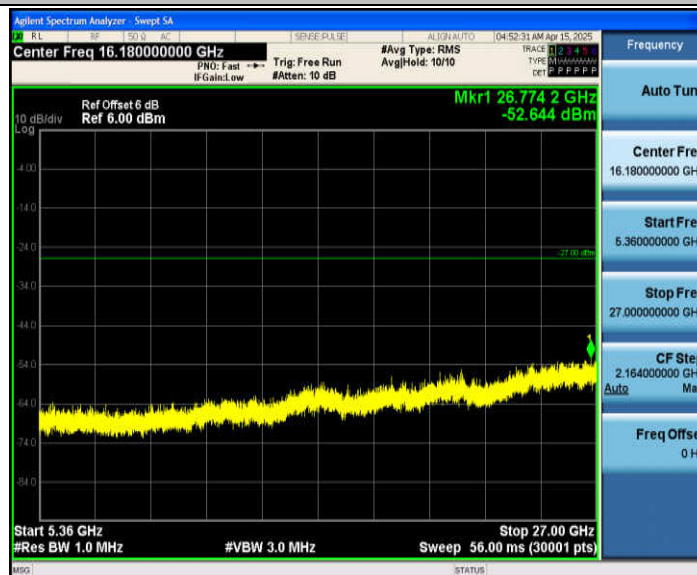
11N20SISO_Ant1_5240_5360~40000



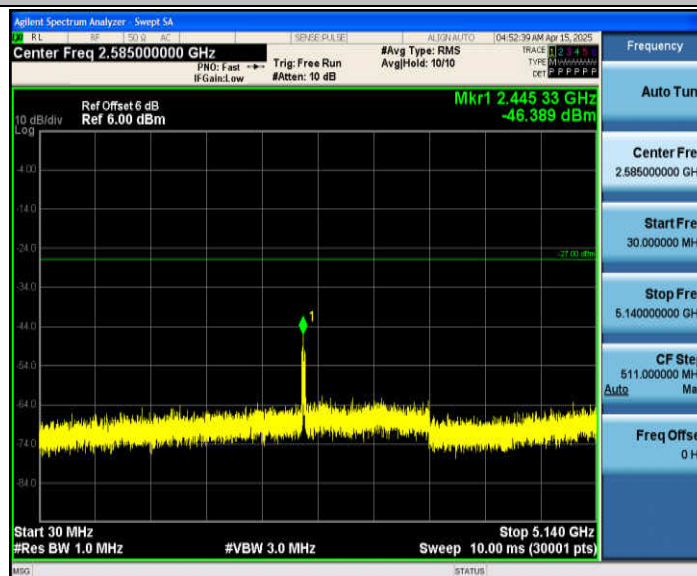
11N40SISO_Ant1_5190_30~5140



11N40SISO_Ant1_5190_5360~40000



11N40SISO_Ant1_5230_30~5140



11N40SISO_Ant1_5230_5360~40000



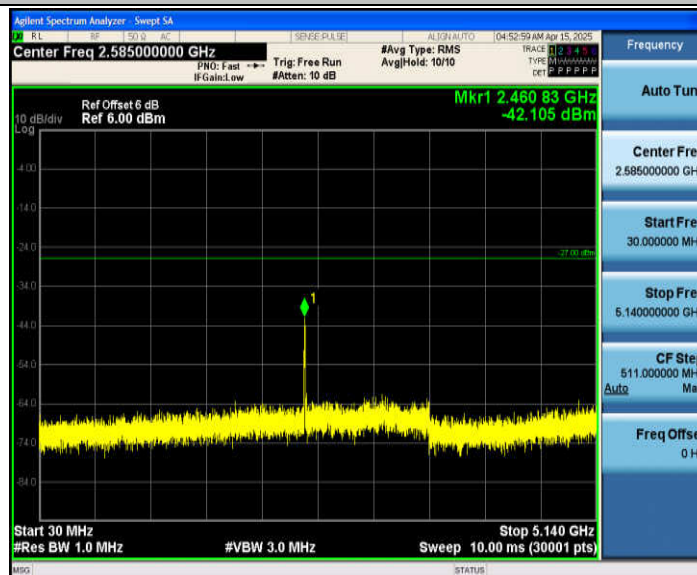
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11AC20SISO_Ant1_5180_5360~40000



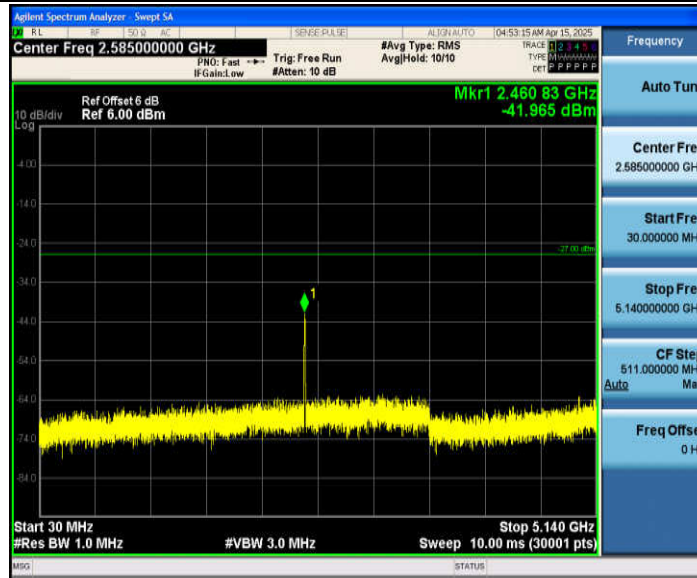
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11AC20SISO_Ant1_5220_5360~40000



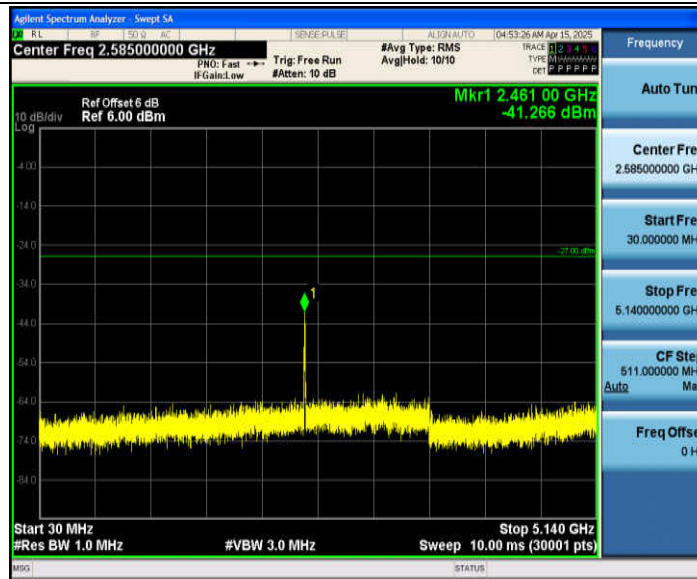
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11AC20SISO_Ant1_5240_5360~40000



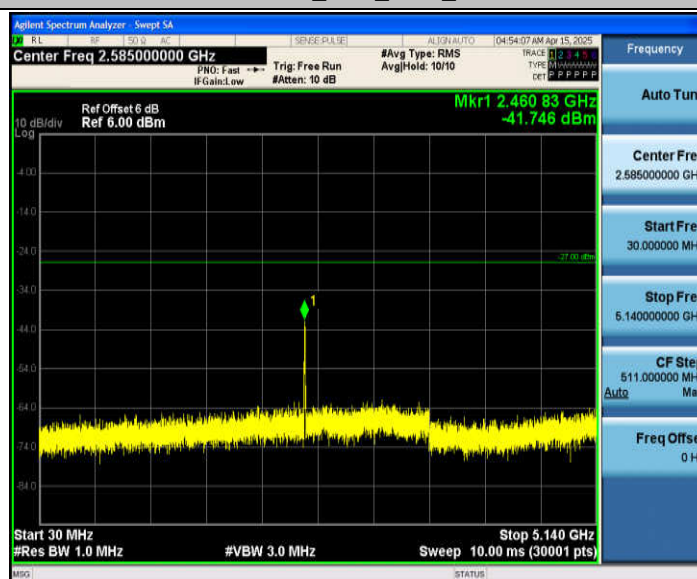
11AC40SISO_Ant1_5190_30~5140



11AC40SISO_Ant1_5190_5360~40000



11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~40000

