

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2BKV8-R1000

Company : Shenzhen Pingfanzhilu International Trade Co., Ltd.

EUT : Wireless Video Extender

Model Number : R1000

Report No. : CTA25112002001

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	23.320	5168.000	5191.320	---	---
		5220	22.160	5209.160	5231.320	---	---
		5240	22.200	5228.880	5251.080	---	---
11N20SISO	Ant1	5180	22.280	5168.840	5191.120	---	---
		5220	22.440	5208.760	5231.200	---	---
		5240	22.200	5228.800	5251.000	---	---
11N40SISO	Ant1	5190	42.240	5168.480	5210.720	---	---
		5230	43.200	5208.240	5251.440	---	---

Test Graphs





11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

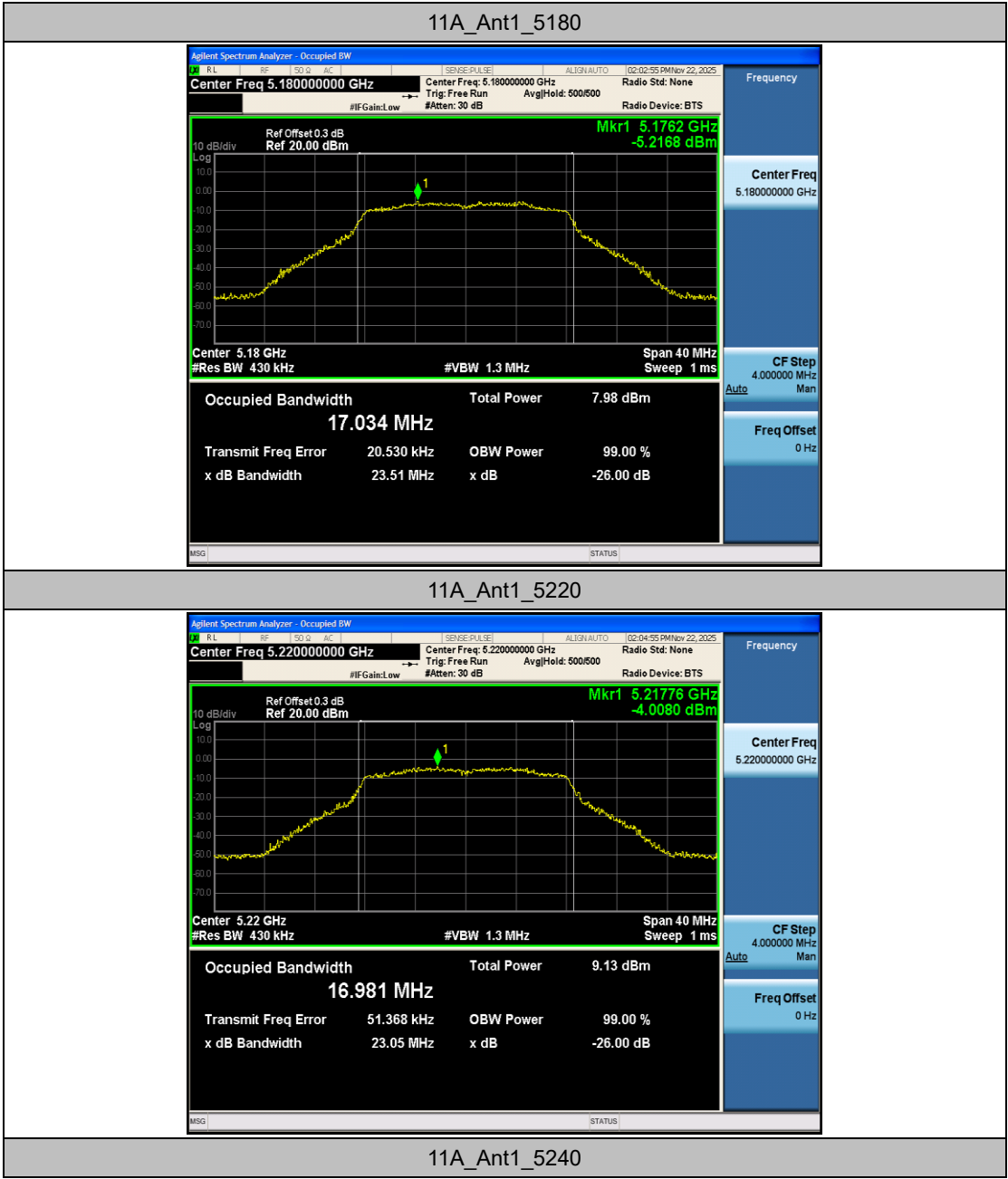


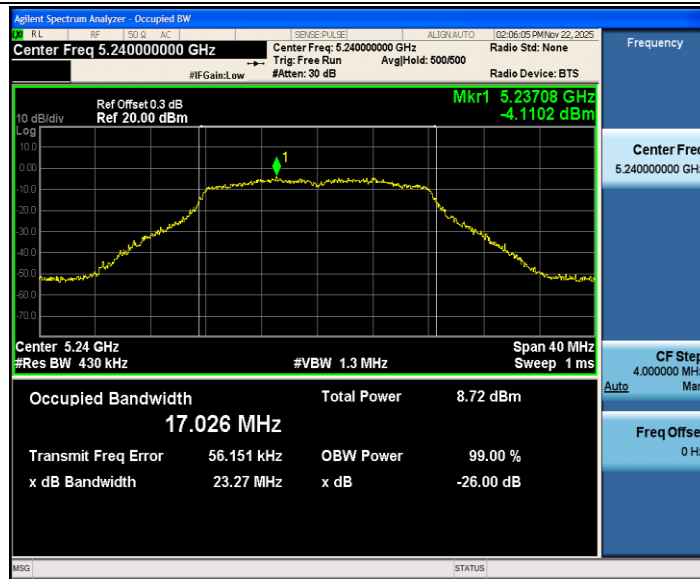
Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.034	5171.5035	5188.5375	---	---
		5220	16.981	5211.5609	5228.5419	---	---
		5240	17.026	5231.5432	5248.5692	---	---
11N20SISO	Ant1	5180	18.050	5170.9893	5189.0393	---	---
		5220	18.004	5211.0219	5229.0259	---	---
		5240	18.040	5230.9978	5249.0378	---	---
11N40SISO	Ant1	5190	36.199	5171.9665	5208.1655	---	---
		5230	36.185	5211.9778	5248.1628	---	---

Test Graphs

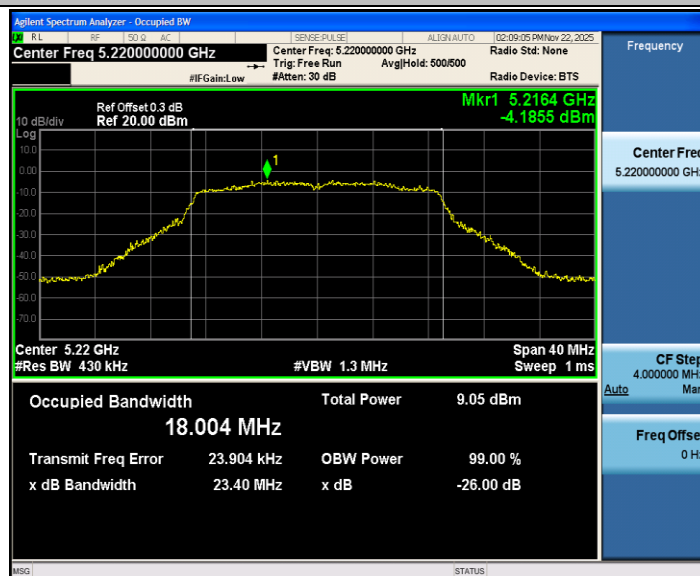




11N20SISO_Ant1_5180



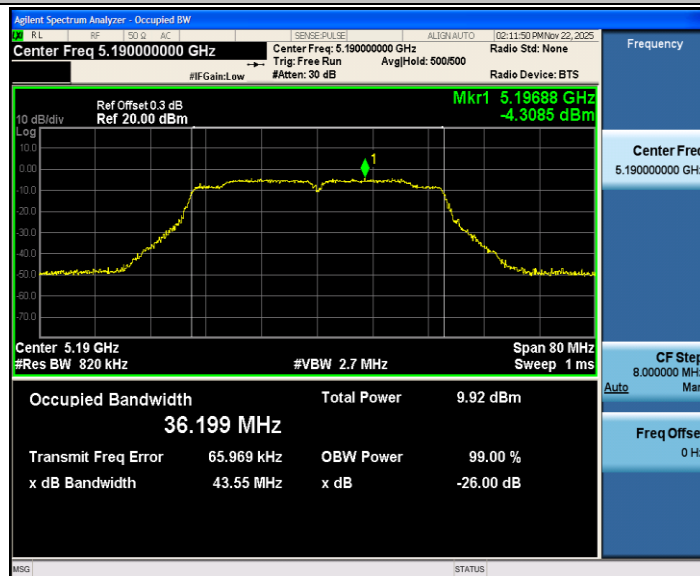
11N20SISO_Ant1_5220



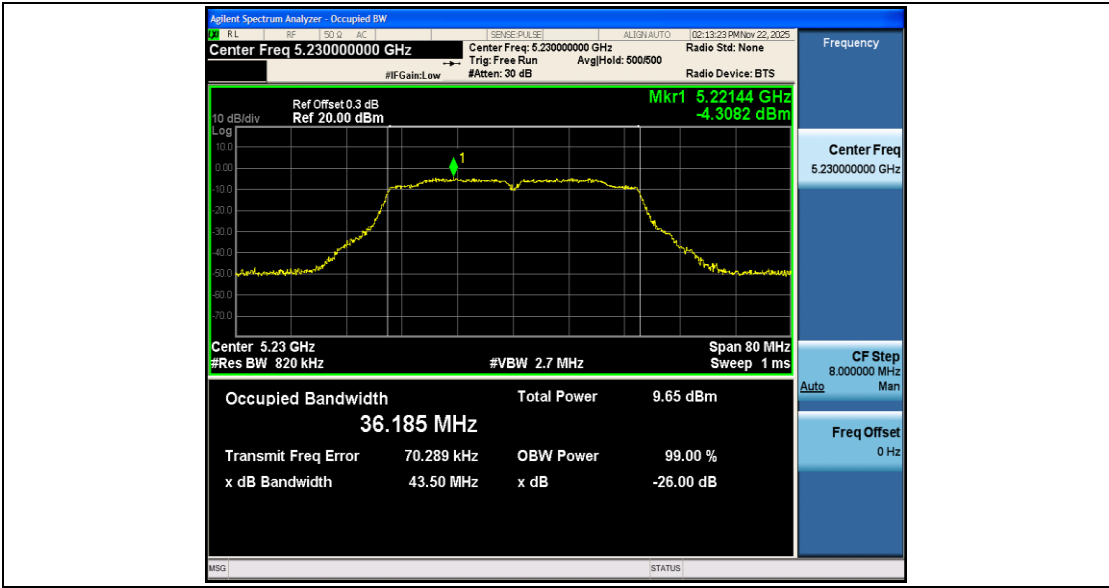
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

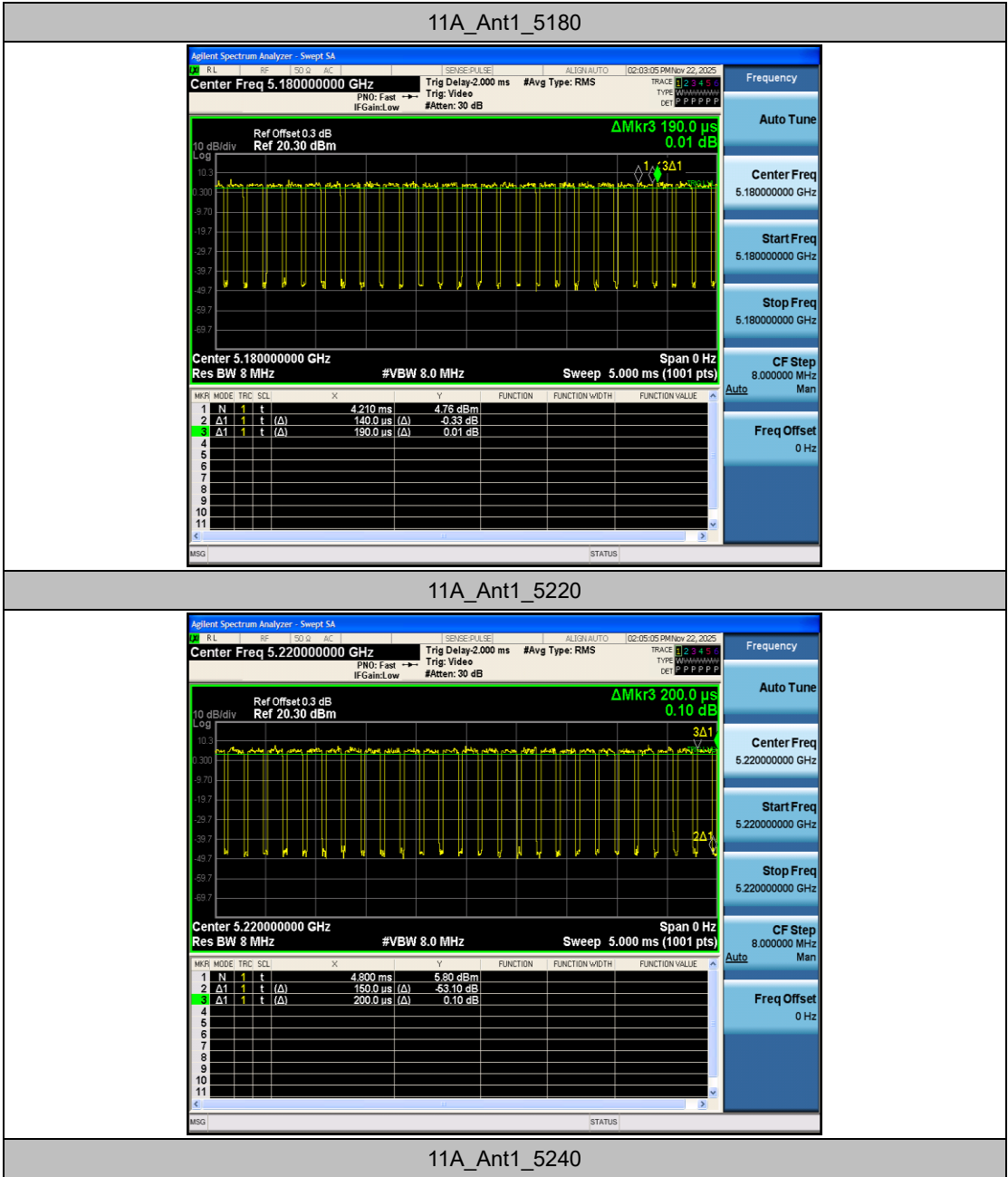


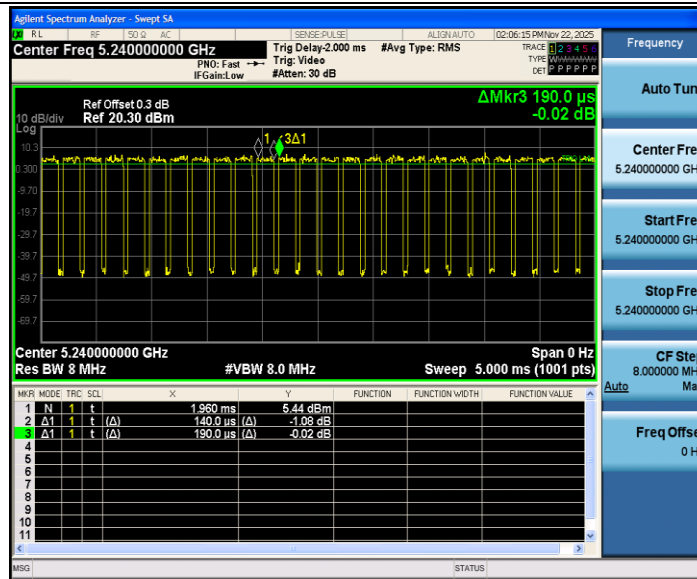
Appendix B: Duty Cycle

Test Result

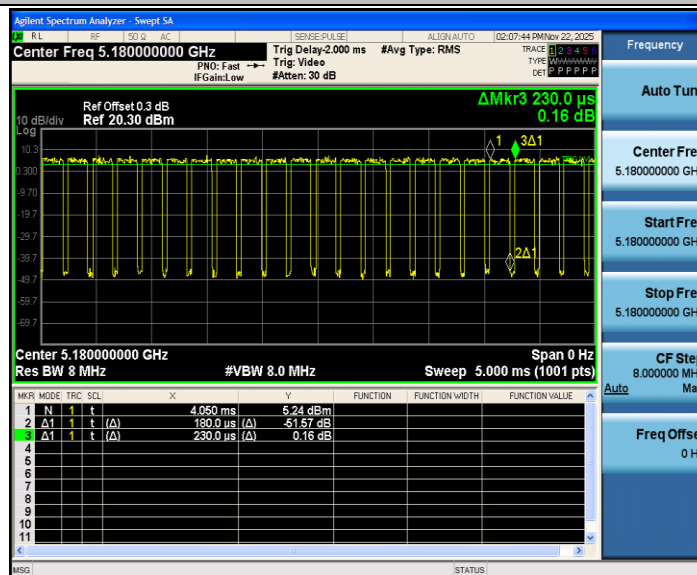
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5180	0.14	0.19	73.68	1.33	---	---
		5220	0.15	0.20	75.00	1.25	---	---
		5240	0.14	0.19	73.68	1.33	---	---
11N20SISO	Ant1	5180	0.18	0.23	78.26	1.06	---	---
		5220	0.17	0.22	77.27	1.12	---	---
		5240	0.17	0.22	77.27	1.12	---	---
11N40SISO	Ant1	5190	0.18	0.23	78.26	1.06	---	---
		5230	0.18	0.23	78.26	1.06	---	---

Test Graphs

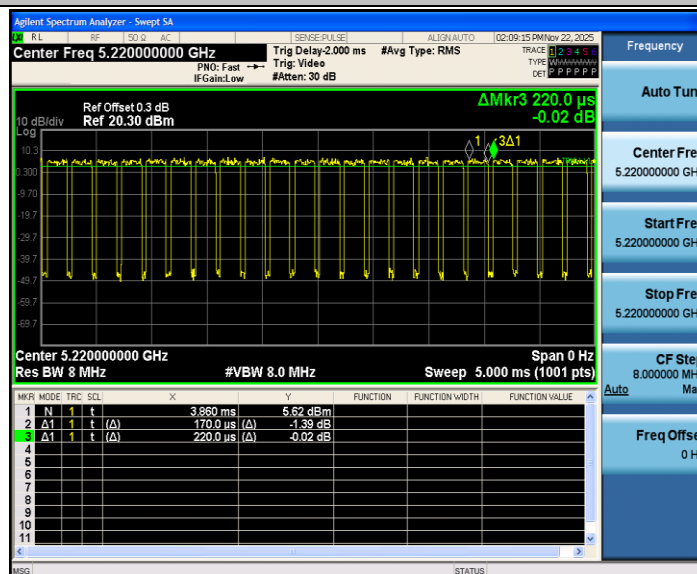




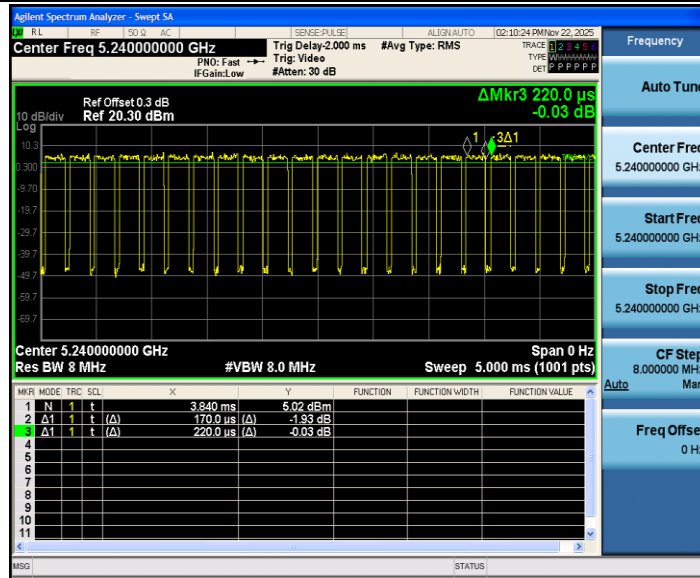
11N20SISO_Ant1_5180



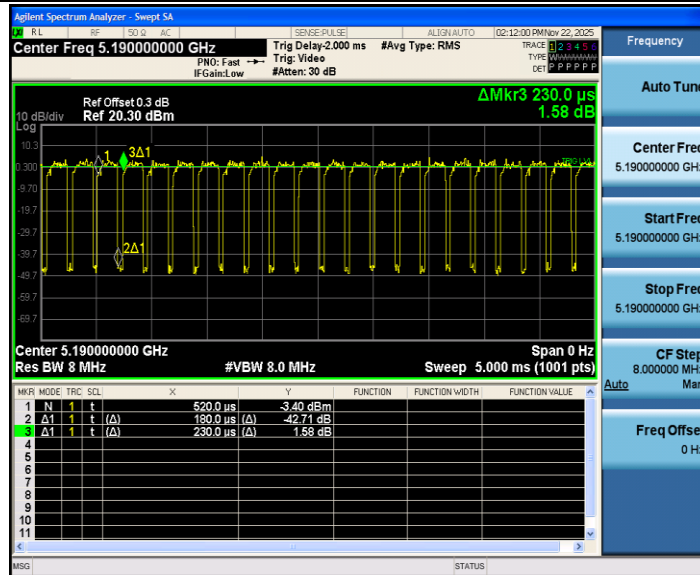
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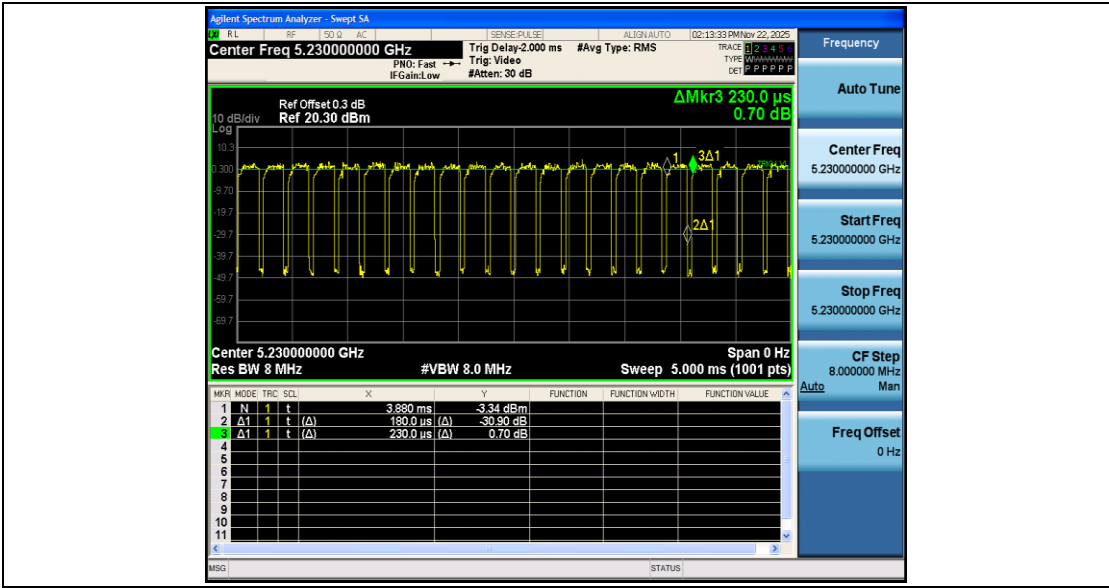
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_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	1.33	73.68	1.33	2.66	≤23.98	PASS
		5220	1.23	75.00	1.25	2.48	≤23.98	PASS
		5240	0.95	73.68	1.33	2.28	≤23.98	PASS
11N20SI SO	Ant1	5180	1.52	78.26	1.06	2.58	≤23.98	PASS
		5220	1.43	77.27	1.12	2.55	≤23.98	PASS
		5240	1.09	77.27	1.12	2.21	≤23.98	PASS
11N40SI SO	Ant1	5190	1.49	78.26	1.06	2.55	≤23.98	PASS
		5230	1.13	78.26	1.06	2.19	≤23.98	PASS

Appendix D: Maximum power spectral density

Test Result

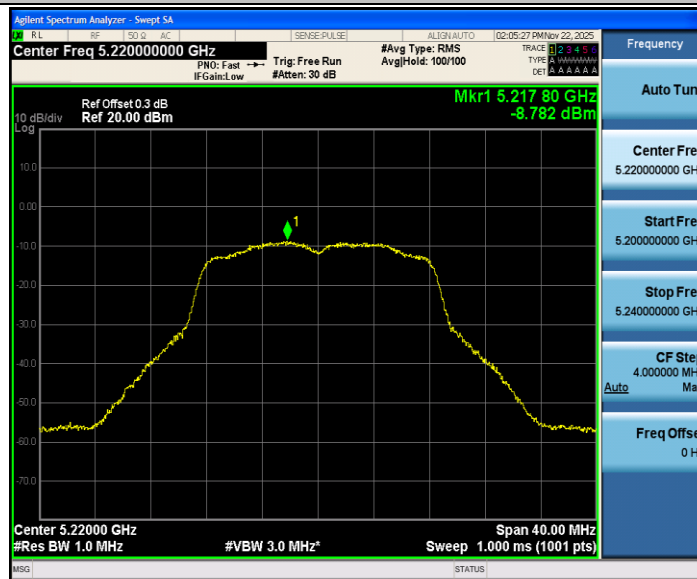
TestMode	Antenna	Freq(MHz)	Result [dBm/1MHz] For 5.2G	Duty factor (dB)	Result [dBm/MHz] For 5.2G	Limit[dBm/MHz] For 5.2G	Verdict
11A	Ant1	5180	-8.759	1.33	-7.43	≤11.00	PASS
		5220	-8.782	1.25	-7.53	≤11.00	PASS
		5240	-9.167	1.33	-7.84	≤11.00	PASS
11N20SISO	Ant1	5180	-8.796	1.06	-7.74	≤11.00	PASS
		5220	-8.956	1.12	-7.84	≤11.00	PASS
		5240	-9.561	1.12	-8.44	≤11.00	PASS
11N40SISO	Ant1	5190	-12.194	1.06	-11.13	≤11.00	PASS
		5230	-12.439	1.06	-11.38	≤11.00	PASS

Test Graphs

11A_Ant1_5180



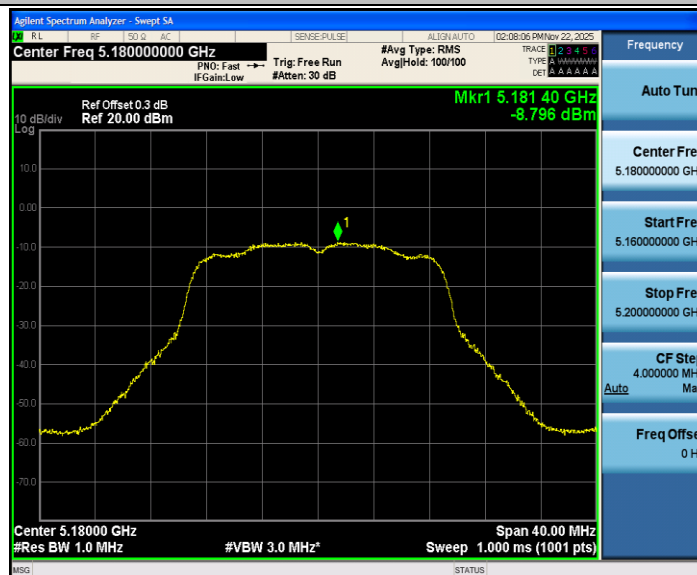
11A_Ant1_5220



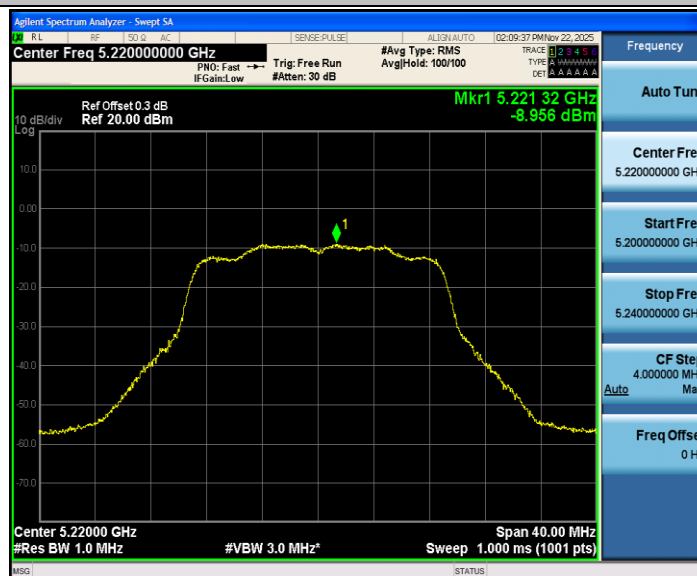
11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



Appendix E: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-47.58	≤-27	PASS
		High	5240	-47.39	≤-27	PASS
11N20SISO	Ant1	Low	5180	-46.98	≤-27	PASS
		High	5240	-48.29	≤-27	PASS
11N40SISO	Ant1	Low	5190	-47.61	≤-27	PASS
		High	5230	-48.07	≤-27	PASS

11A_Ant1_Low_5180

Agilent Spectrum Analyzer - Sweep SA

Center Freq 4.850000000 GHz

Ref Offset 0.3 dB
Ref 20.00 dBm

Mkr3 5.116 7 GHz
-47.578 dBm

Start 4.5000 GHz
#Res BW 1.0 MHz

Stop 5.2000 GHz
#VBW 3.0 MHz
Sweep 1.200 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.176 2 GHz	0.045 dBm			
2	N	1	f	5.150 0 GHz	-49.570 dBm			
3	N	1	f	5.116 7 GHz	-47.578 dBm			

11A_Ant1_High_5240

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.340000000 GHz

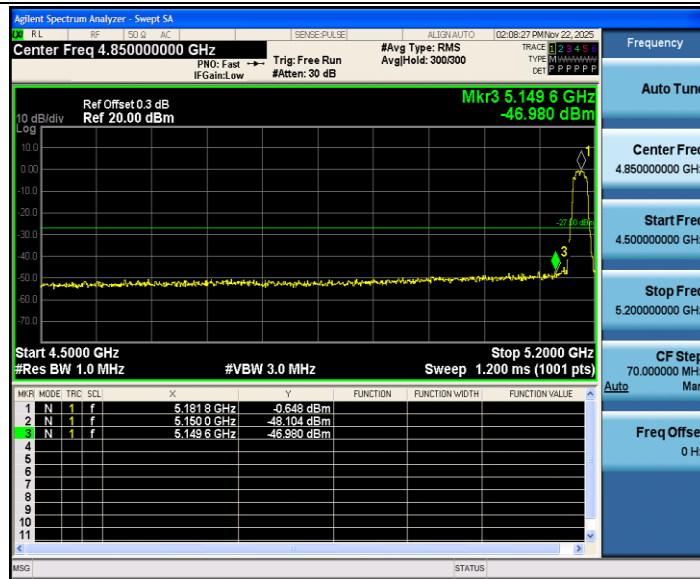
Ref Offset 0.3 dB
Ref 20.00 dBm

Mkr3 5.353 20 GHz
-47.388 dBm

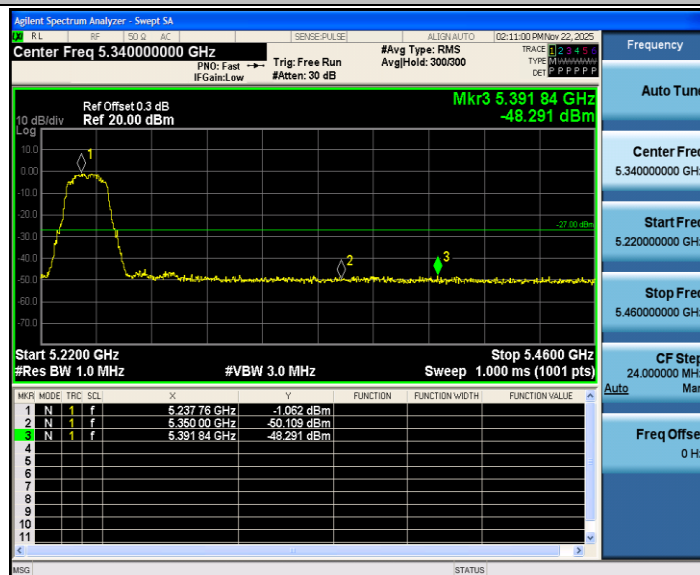
Start 5.2200 GHz
#Res BW 1.0 MHz

Stop 5.4600 GHz
#VBW 3.0 MHz
Sweep 1.000 ms (1001 pts)

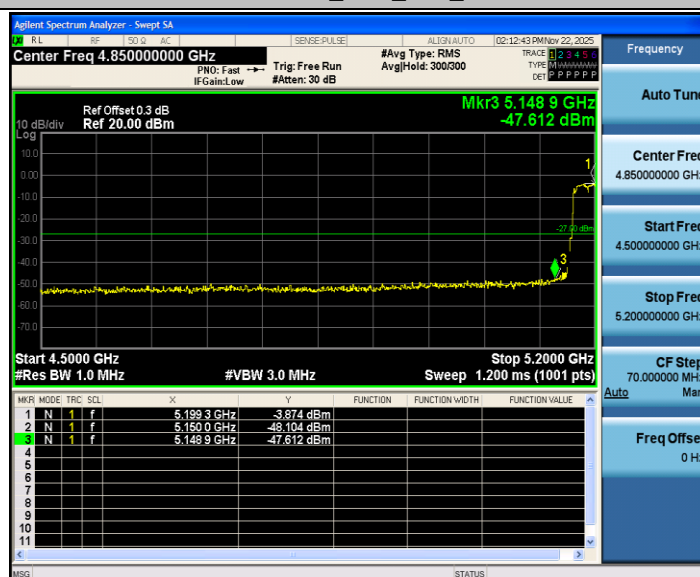
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.244 00 GHz	-0.522 dBm			
2	N	1	f	5.350 00 GHz	-49.418 dBm			
3	N	1	f	5.353 20 GHz	-47.388 dBm			



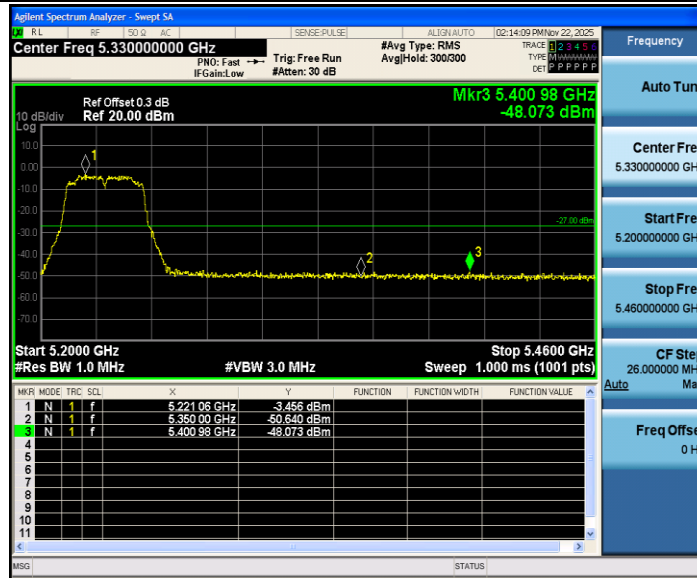
11N20ISO_Ant1_High_5240



11N40ISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230

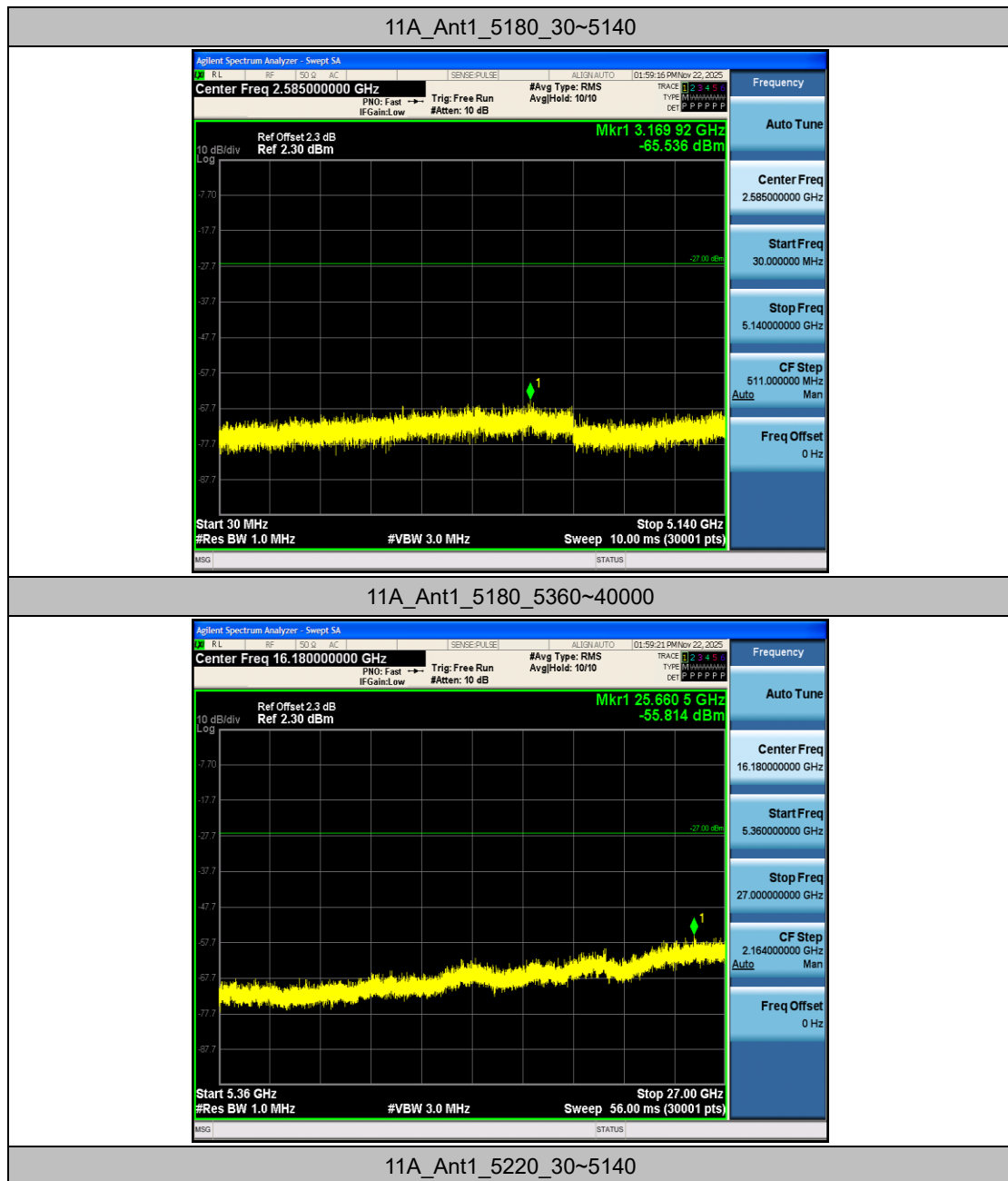


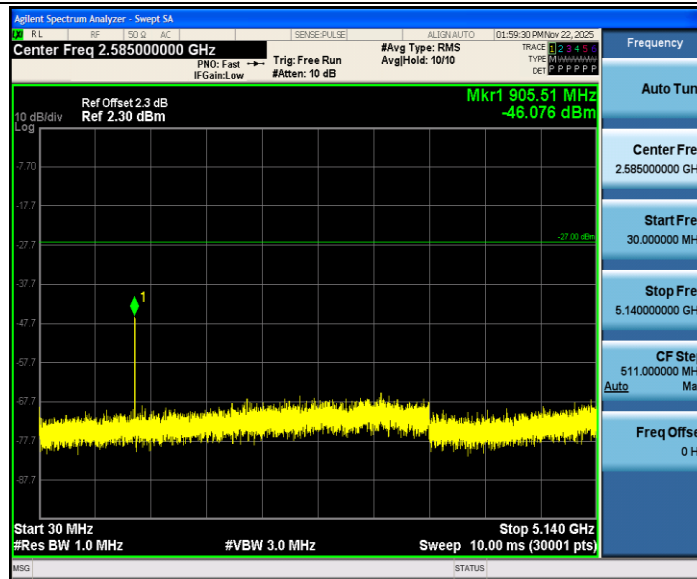
Appendix F: Conducted Spurious Emission

Test Result

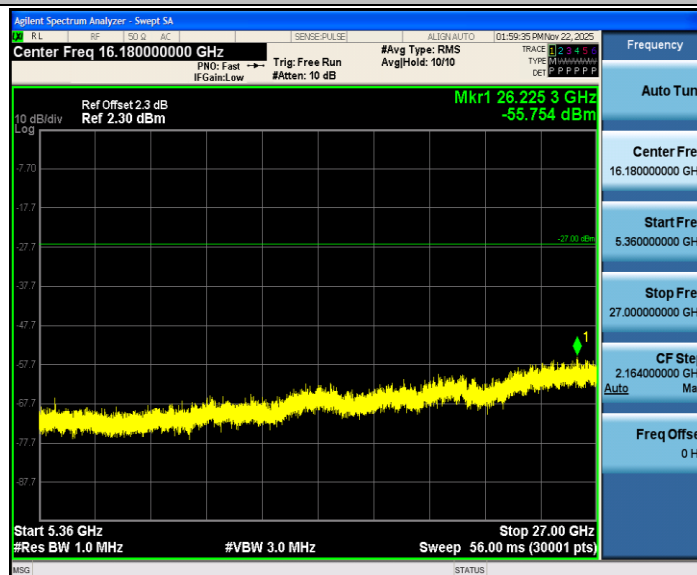
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	3169.92	-65.54	≤-27	PASS
			5360~40000	25660.48	-55.81	≤-27	PASS
		5220	30~5140	905.51	-46.08	≤-27	PASS
			5360~40000	26225.29	-55.75	≤-27	PASS
		5240	30~5140	908.07	-37.37	≤-27	PASS
			5360~40000	26148.83	-55.57	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	2441.92	-63.64	≤-27	PASS
			5360~40000	26120.69	-55.25	≤-27	PASS
		5220	30~5140	2433.4	-63.13	≤-27	PASS
			5360~40000	26901.9	-55.9	≤-27	PASS
		5240	30~5140	908.07	-40.52	≤-27	PASS
			5360~40000	26906.23	-54.91	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	3181.68	-65.09	≤-27	PASS
			5360~40000	24467.4	-56.31	≤-27	PASS
		5230	30~5140	2471.56	-64.19	≤-27	PASS
			5360~40000	25400.8	-56.12	≤-27	PASS

Test Graphs

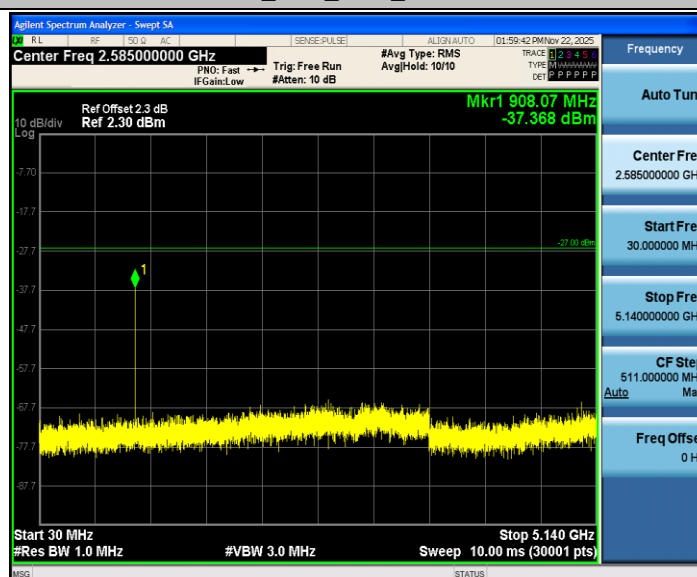




11A_Ant1_5220_5360~40000



11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~40000



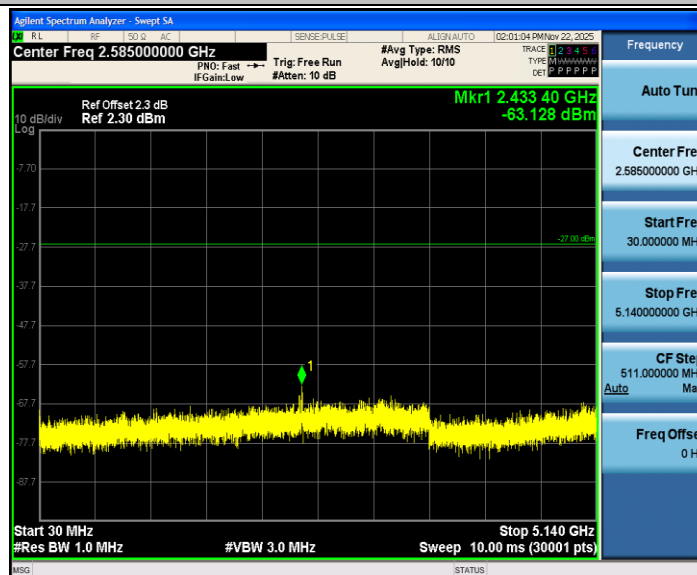
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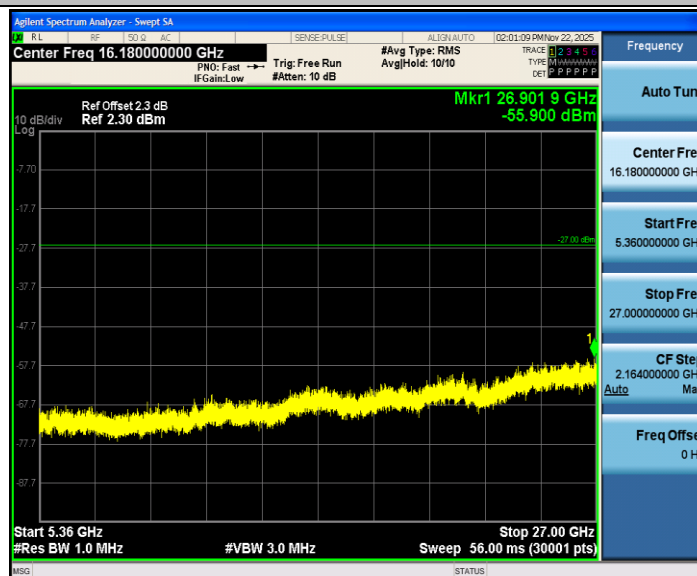
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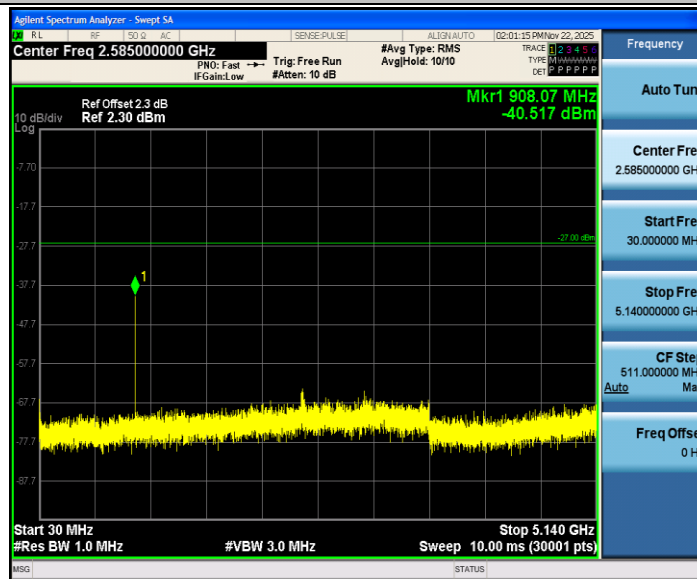
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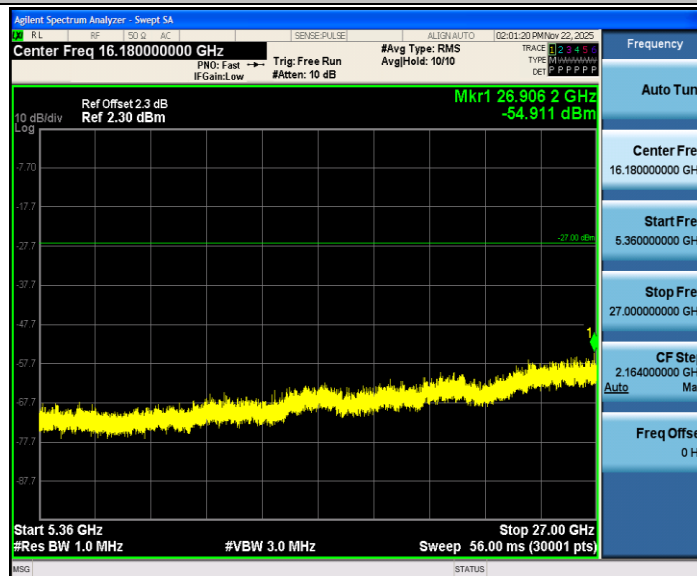
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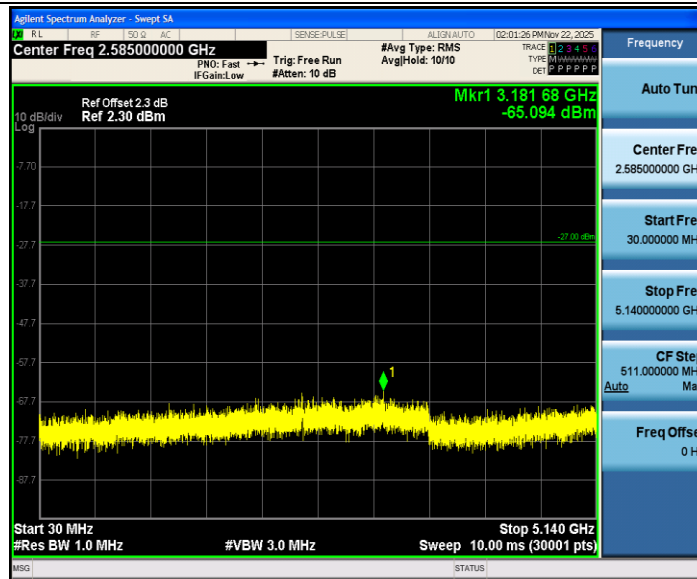
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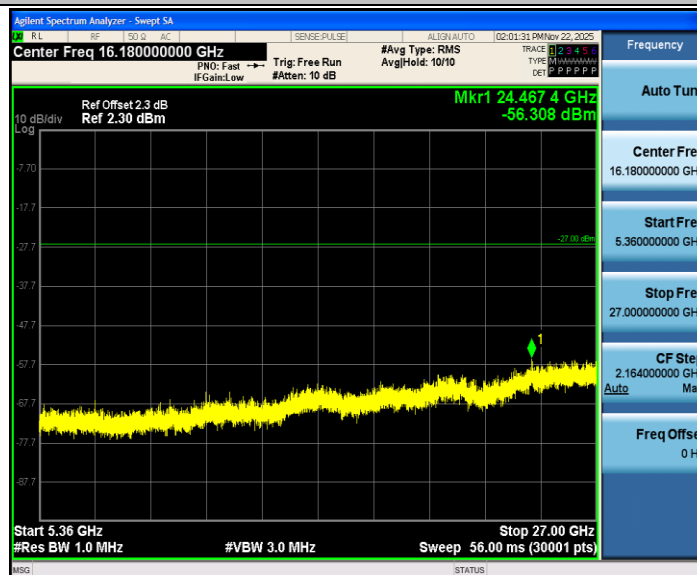
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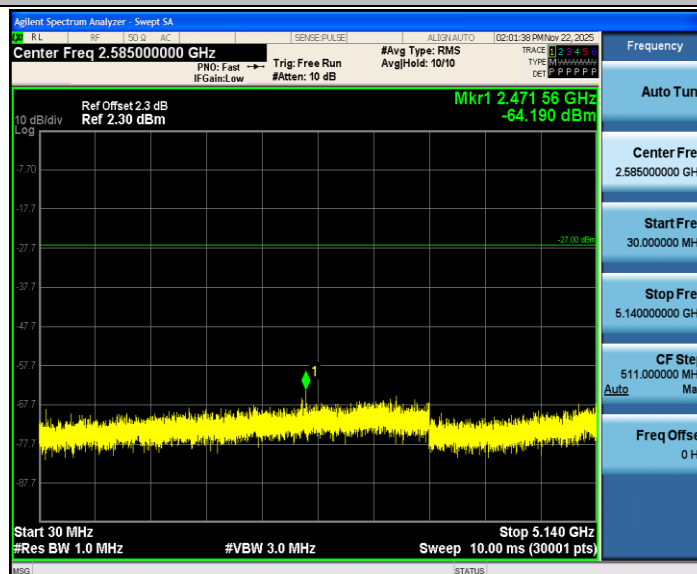
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11N40SISO_Ant1_5190_5360~40000



11N40SISO_Ant1_5230_30~5140



11N40SISO_Ant1_5230_5360~40000

