FCC Appendix RF Test Data

FCC ID	**:**	**2BQJY-MP038**
Company:	**:**	**Shenzhen Zhishanglian Technology Co., Ltd**
EUT	**:**	**Advertising Screen Projector with Media Player**
Model Number	**:**	**MP038**
Report No.	**:**	**CTA25060600101**
Reviewed By	**:**	**Eric Wang**

Appendix A: DTS Bandwidth

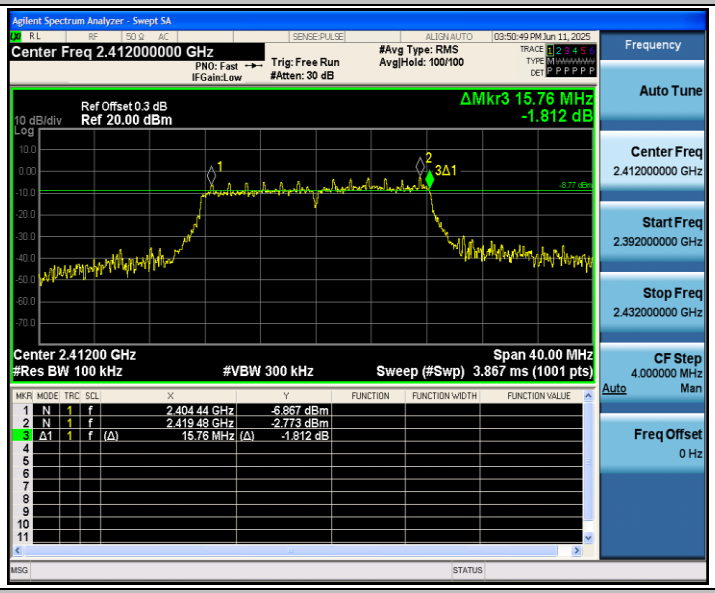
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2407.000	2416.560	0.5	PASS
		2437	9.600	2431.960	2441.560	0.5	PASS
		2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant1	2412	15.760	2404.440	2420.200	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	15.920	2454.240	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.120	2404.360	2420.480	0.5	PASS
		2437	15.800	2429.440	2445.240	0.5	PASS
		2462	16.600	2454.000	2470.600	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.480	2440.080	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.360	2434.320	2469.680	0.5	PASS

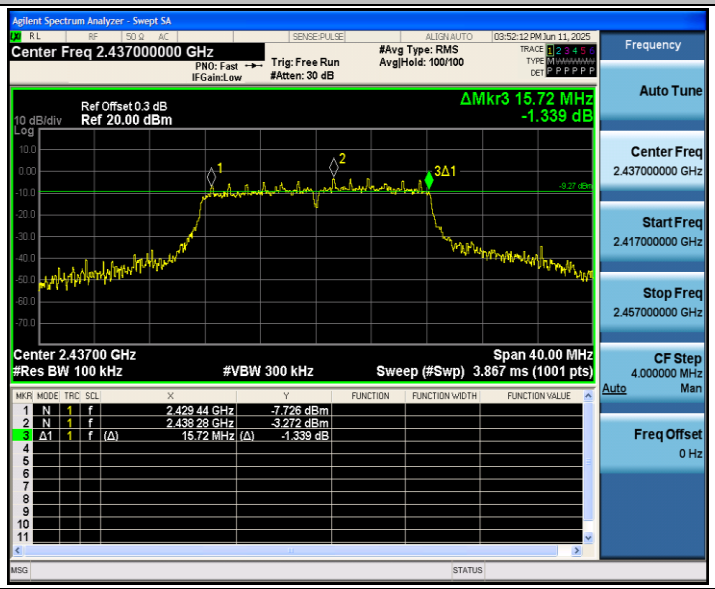
Test Graphs

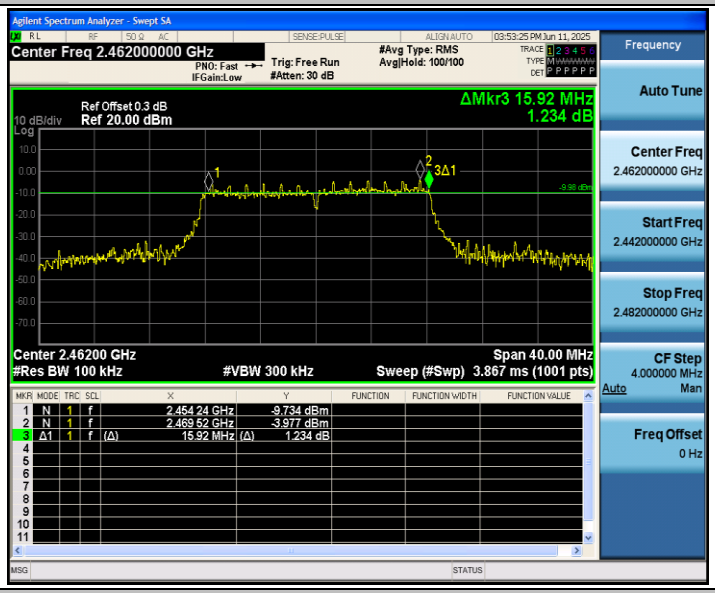
11B_Ant1_2412
11B_Ant1_2437
11B_Ant1_2462

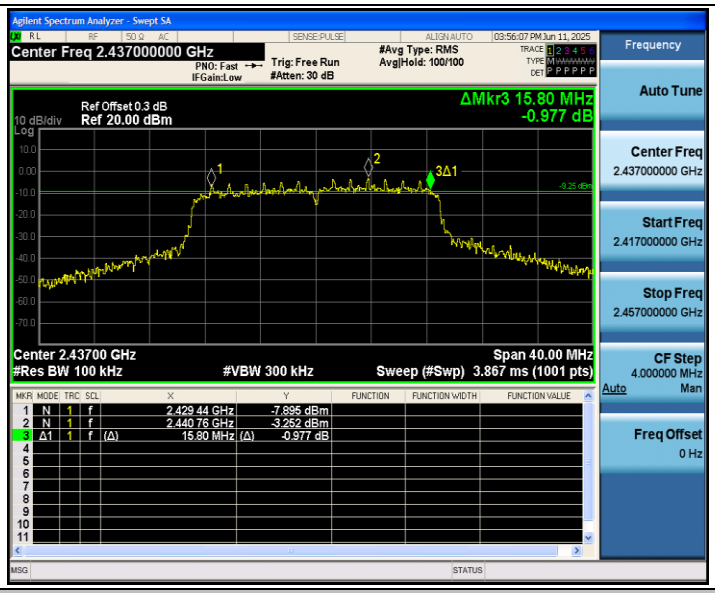
11G_Ant1_2412



11G_Ant1_2437

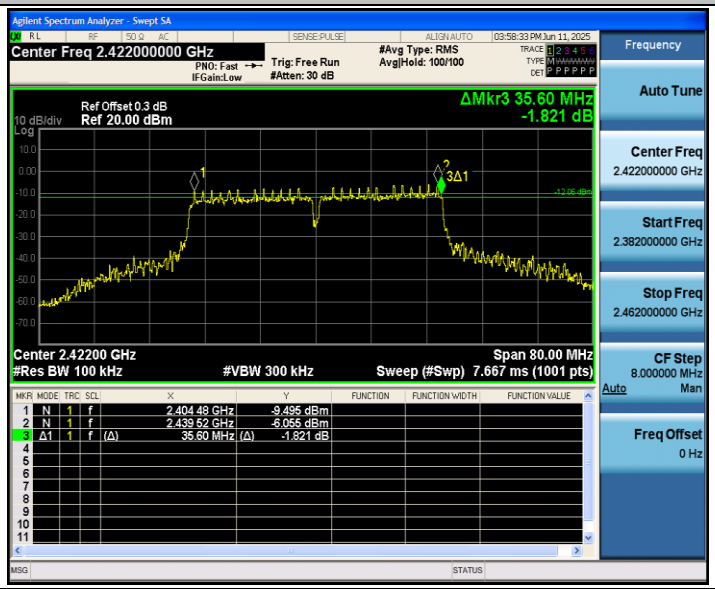


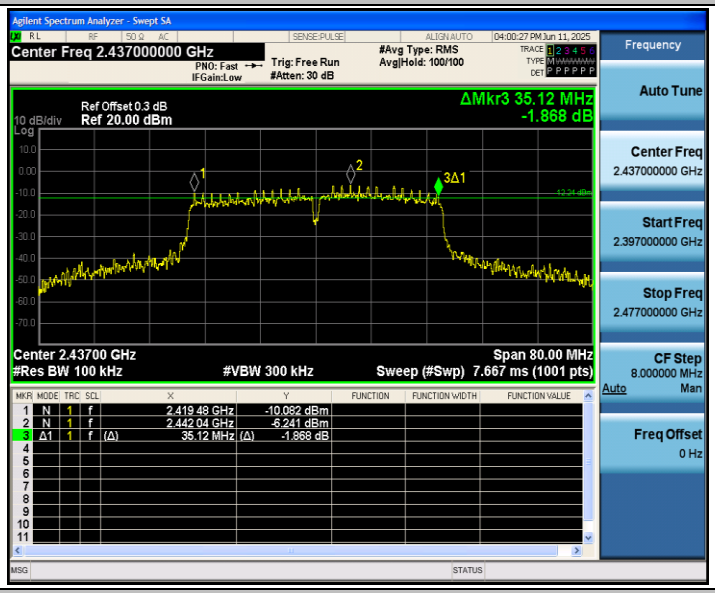
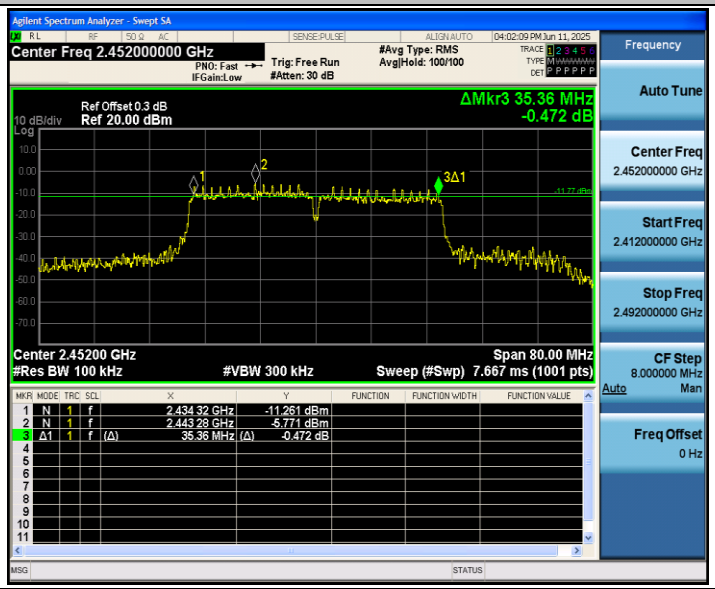
11G_Ant1_2462

11N20SISO_Ant1_2412
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

11N40SISO_Ant1_2422



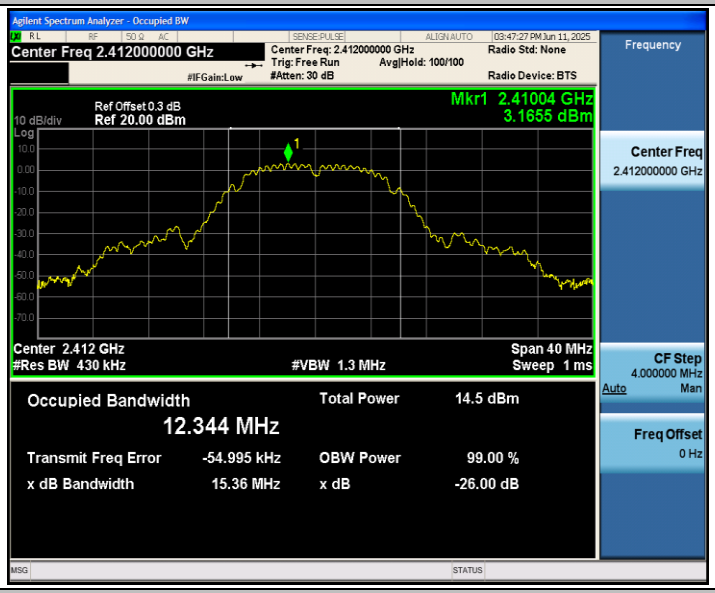
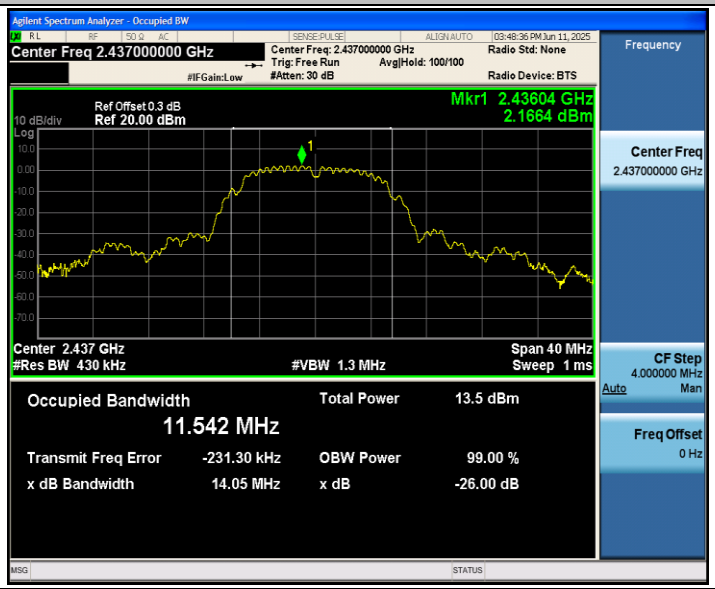
11N40SISO_Ant1_2437

11N40SISO_Ant1_2452


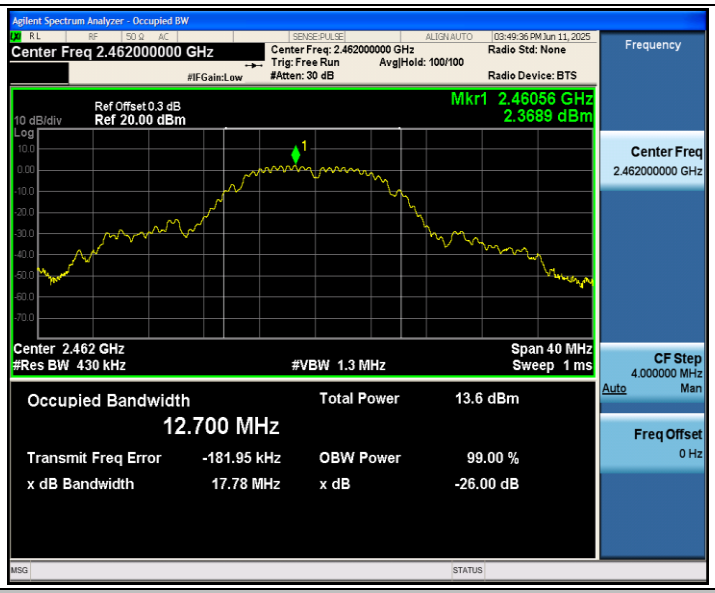
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.344	2405.7730	2418.1170	---	---
		2437	11.542	2430.9977	2442.5397	---	---
		2462	12.700	2455.4681	2468.1681	---	---
11G	Ant1	2412	16.782	2403.7632	2420.5452	---	---
		2437	16.633	2428.7958	2445.4288	---	---
		2462	16.949	2453.6212	2470.5702	---	---
11N20SISO	Ant1	2412	17.888	2403.2617	2421.1497	---	---
		2437	17.619	2428.2929	2445.9119	---	---
		2462	18.089	2453.1444	2471.2334	---	---
11N40SISO	Ant1	2422	36.418	2404.1344	2440.5524	---	---
		2437	36.077	2419.0445	2455.1215	---	---
		2452	36.408	2433.8357	2470.2437	---	---

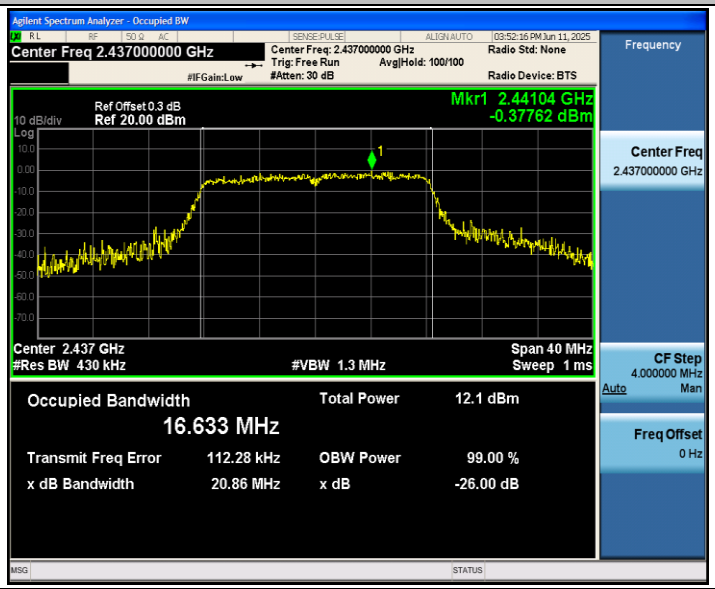
Test Graphs

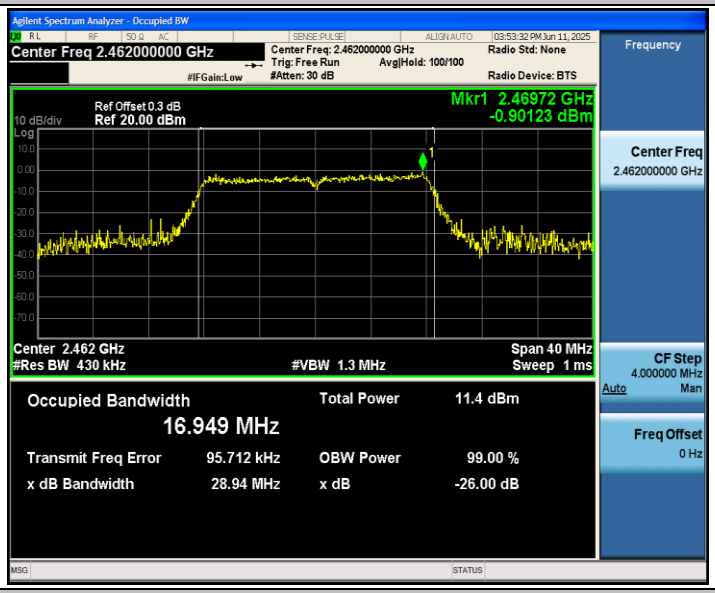
11B_Ant1_2412

11B_Ant1_2437

11B_Ant1_2462

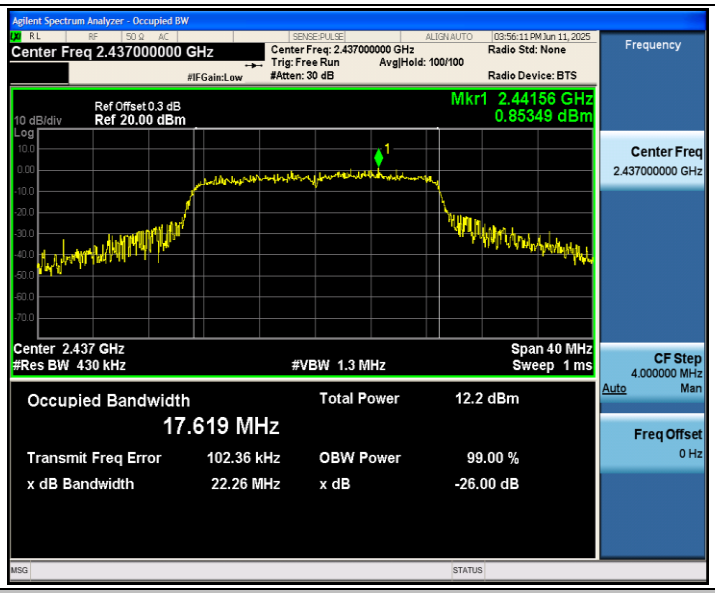


11G_Ant1_2412

11G_Ant1_2437

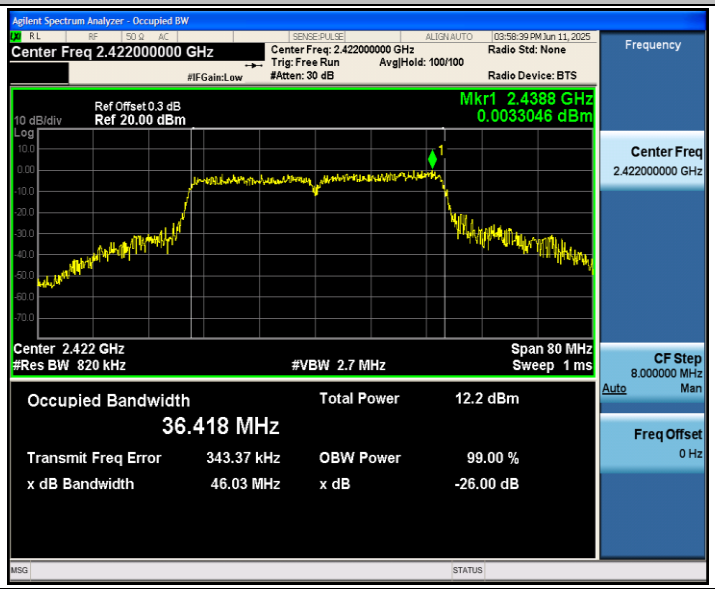


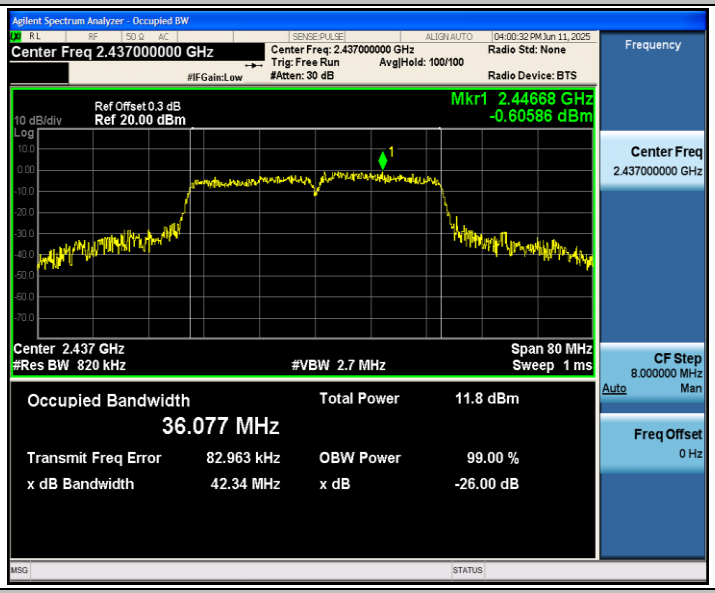
11G_Ant1_2462

11N20SISO_Ant1_2412
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

11N40SISO_Ant1_2452

Appendix C: Maximum conducted output power

Test Result Peak

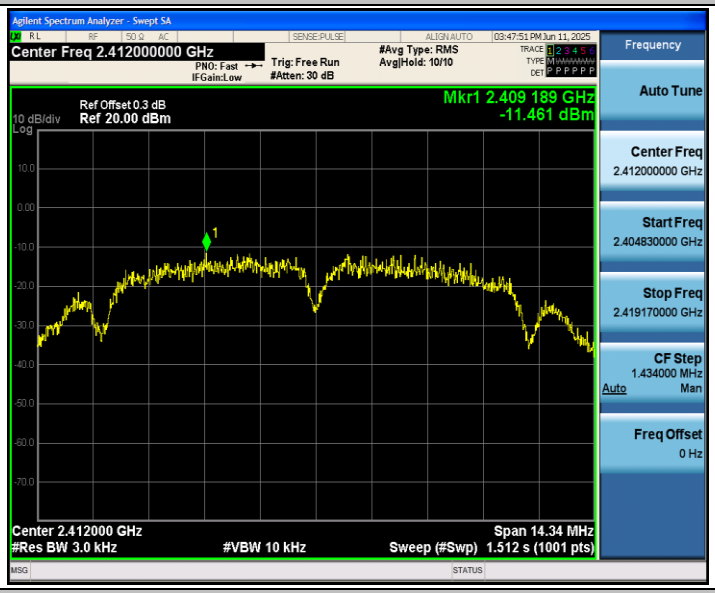
Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.44	≤30.00	PASS
		2437	13.38	≤30.00	PASS
		2462	13.46	≤30.00	PASS
11G	Ant1	2412	13.34	≤30.00	PASS
		2437	12.79	≤30.00	PASS
		2462	12.17	≤30.00	PASS
11N20SISO	Ant1	2412	13.17	≤30.00	PASS
		2437	12.45	≤30.00	PASS
		2462	12.08	≤30.00	PASS
11N40SISO	Ant1	2422	12.37	≤30.00	PASS
		2437	11.94	≤30.00	PASS
		2452	12.77	≤30.00	PASS

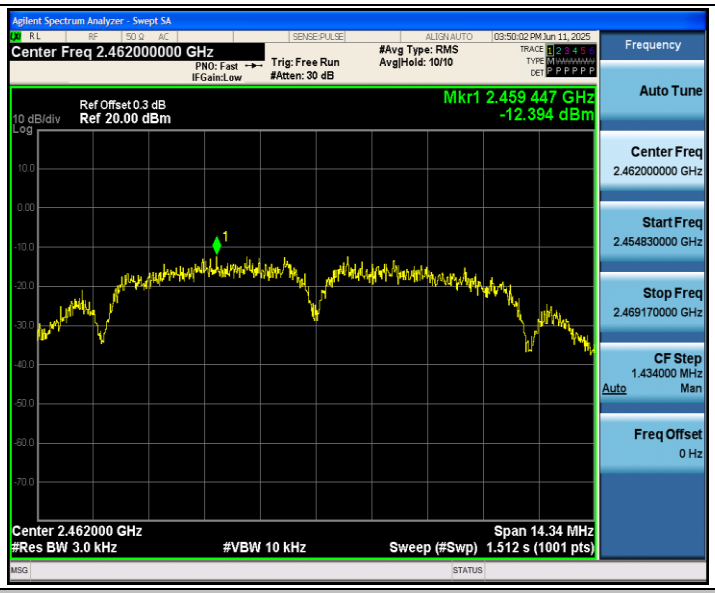
Appendix D: Maximum power spectral density

Test Result

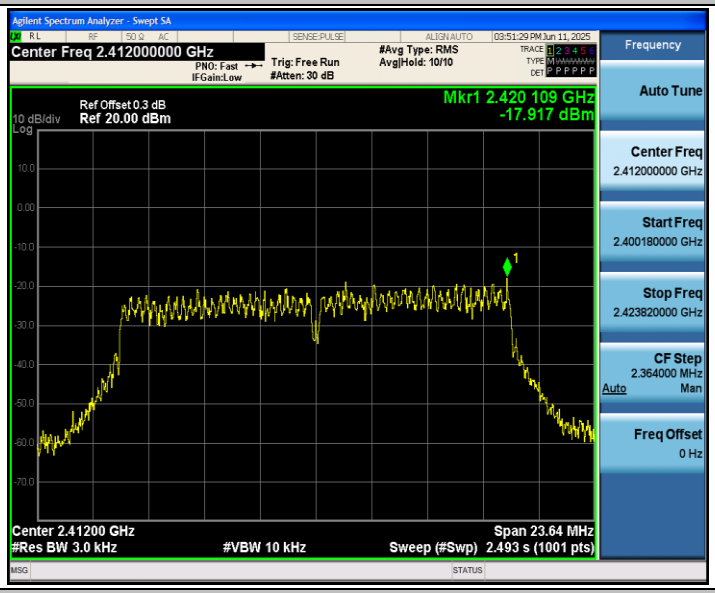
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.46	≤8.00	PASS
		2437	-11.84	≤8.00	PASS
		2462	-12.39	≤8.00	PASS
11G	Ant1	2412	-17.92	≤8.00	PASS
		2437	-19.23	≤8.00	PASS
		2462	-19.69	≤8.00	PASS
11N20SISO	Ant1	2412	-18.88	≤8.00	PASS
		2437	-18.71	≤8.00	PASS
		2462	-20.64	≤8.00	PASS
11N40SISO	Ant1	2422	-21.30	≤8.00	PASS
		2437	-23.27	≤8.00	PASS
		2452	-22.24	≤8.00	PASS

Test Graphs

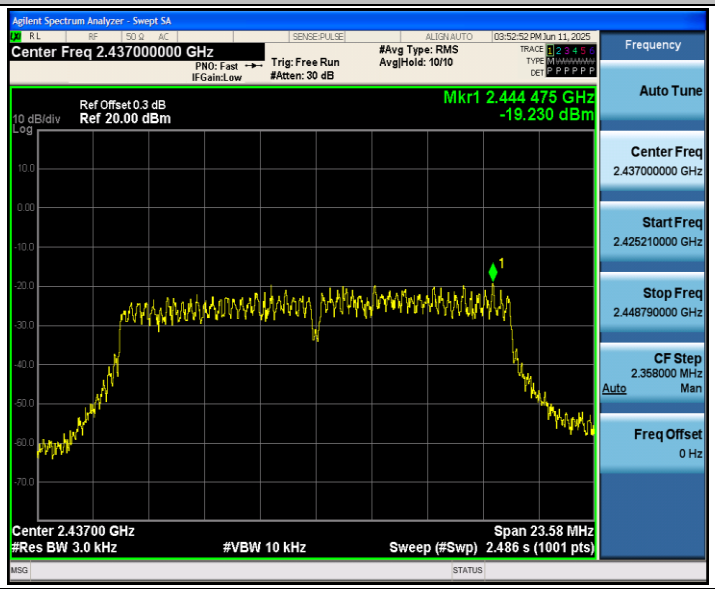
11B_Ant1_2412

11B_Ant1_2437
11B_Ant1_2462

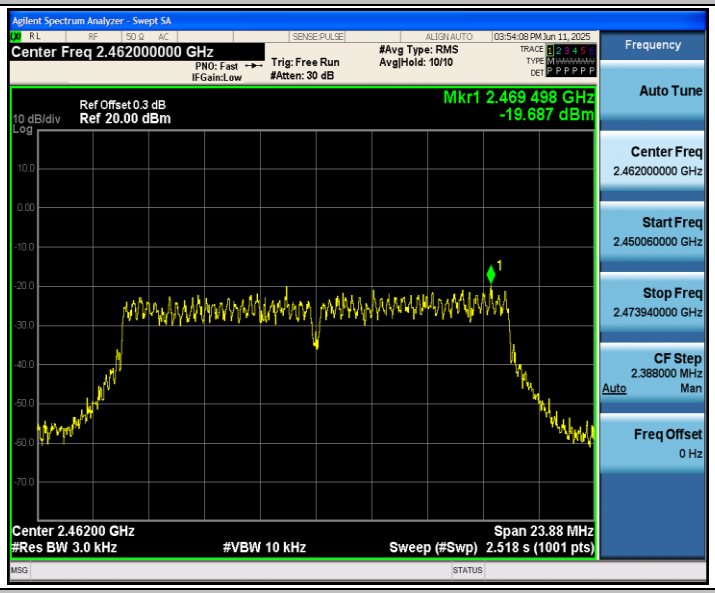
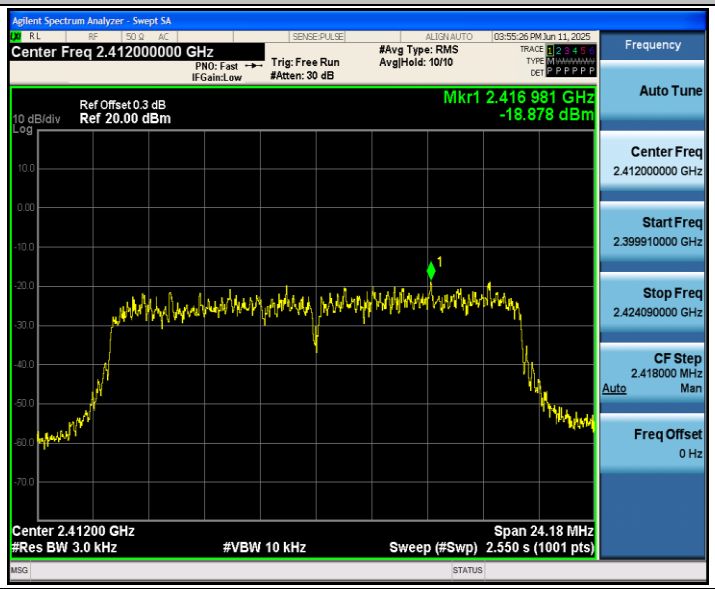


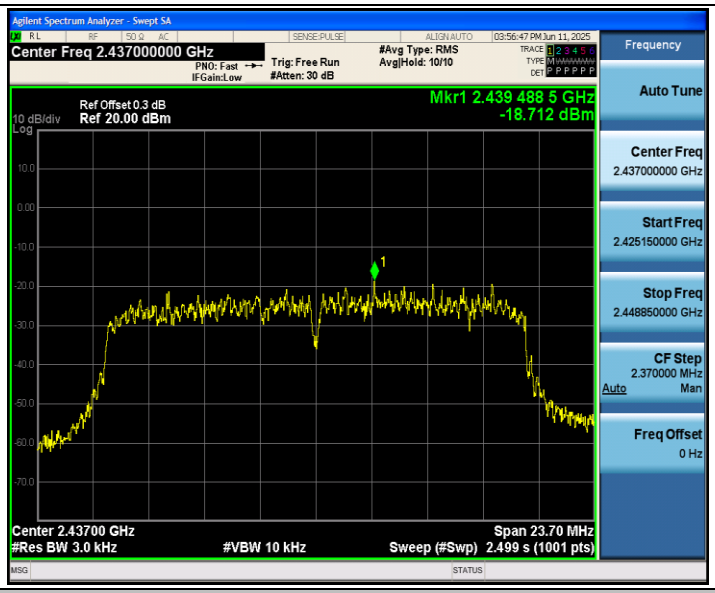
11G_Ant1_2412



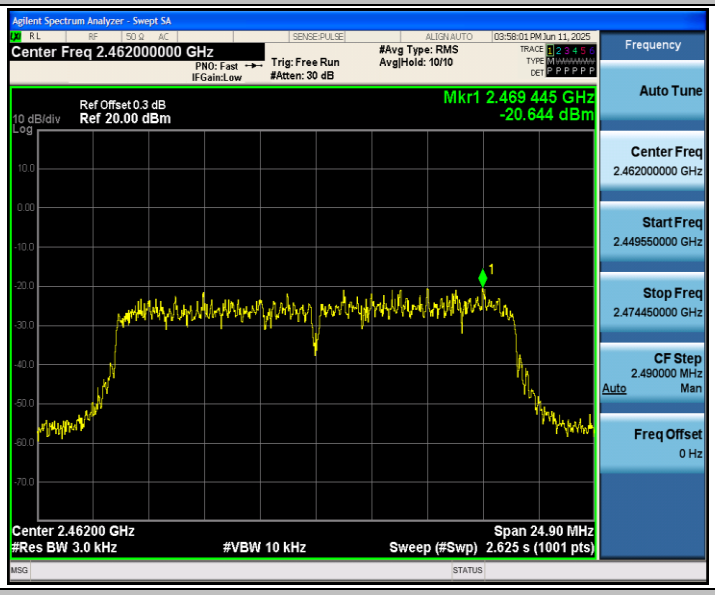
11G_Ant1_2437



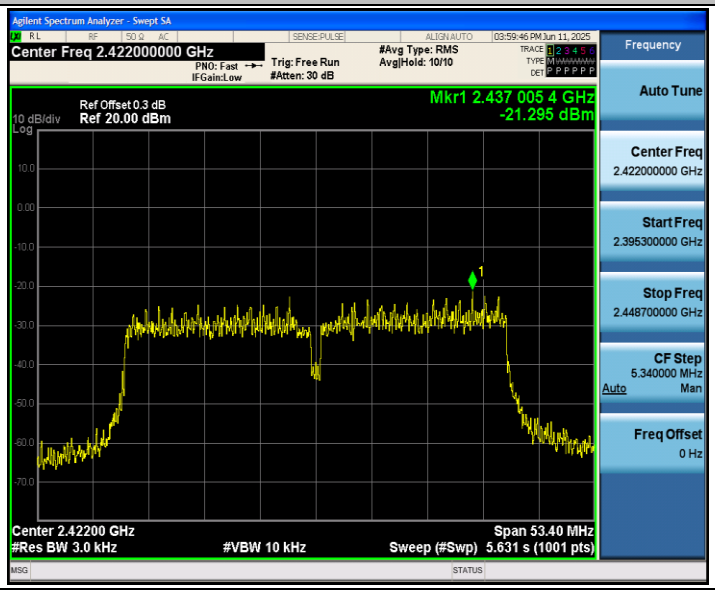
11G_Ant1_2462

11N20SISO_Ant1_2412

11N20SISO_Ant1_2437

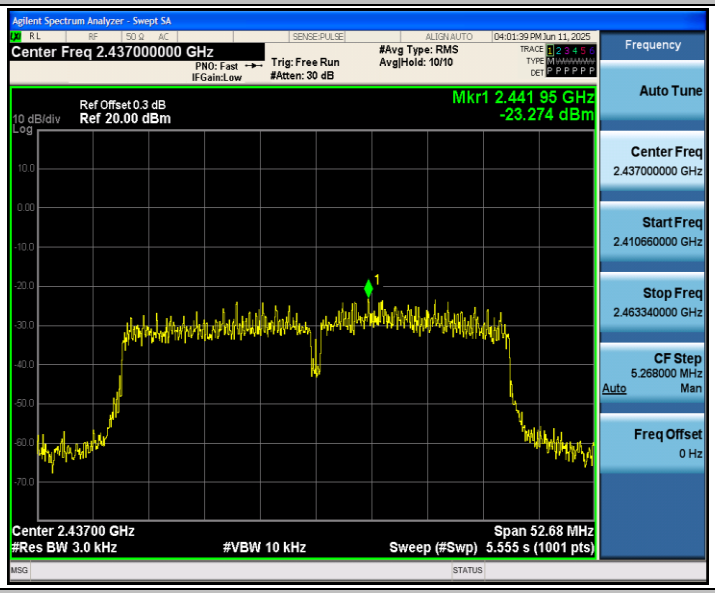


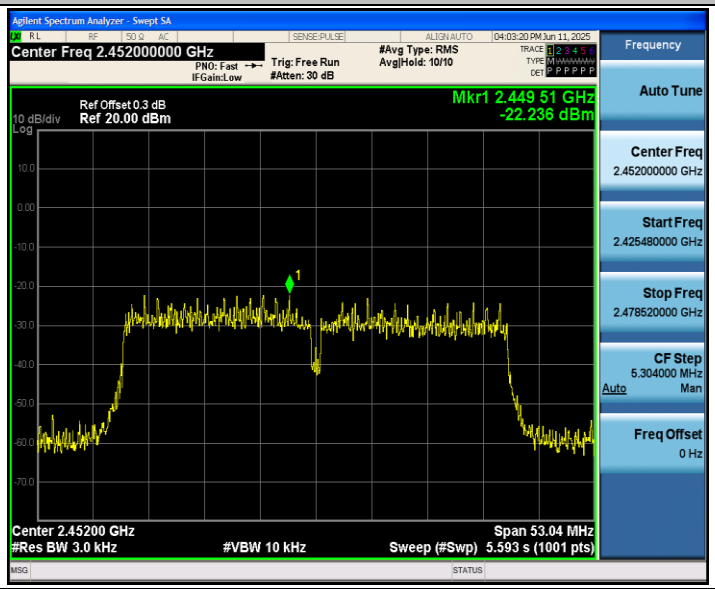
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437


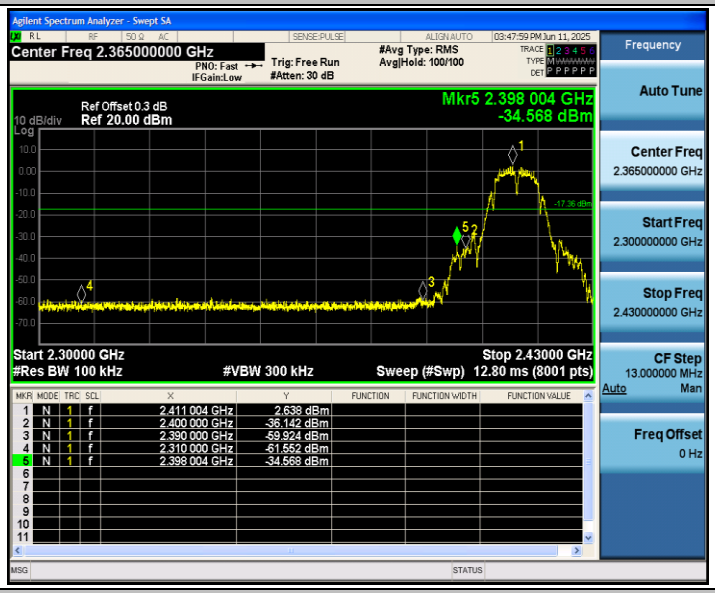
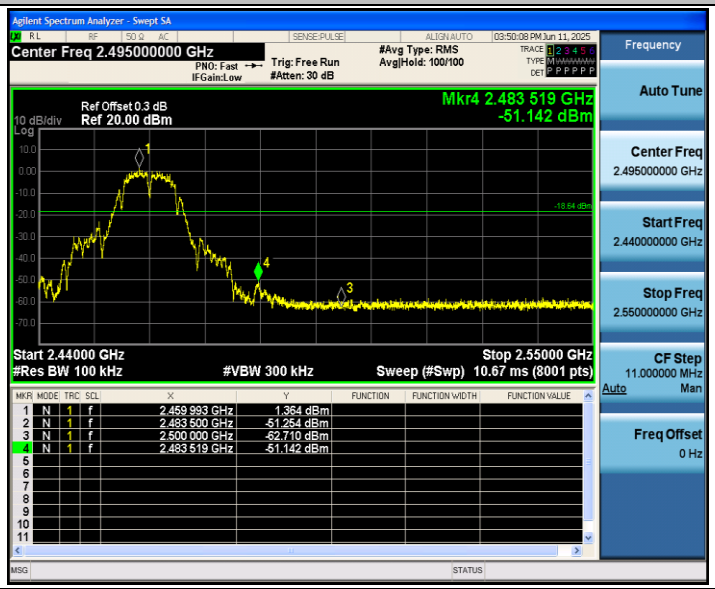
11N40SISO_Ant1_2452


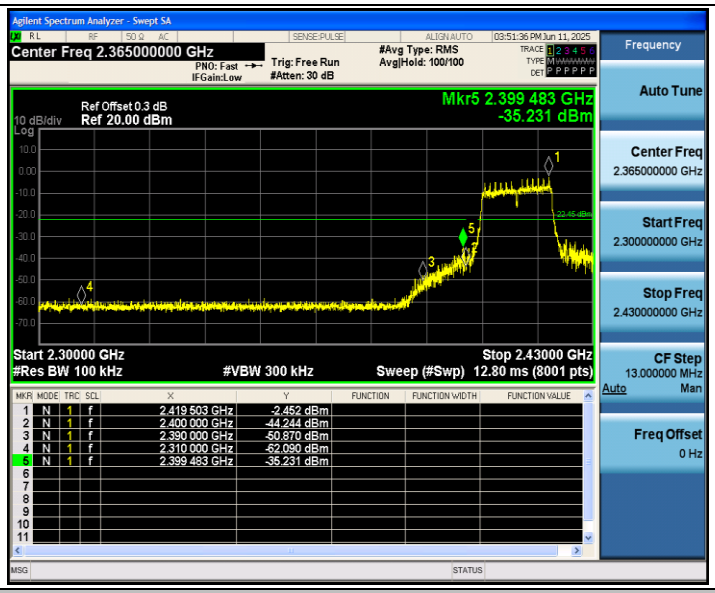
Appendix E: Band edge measurements

Test Result

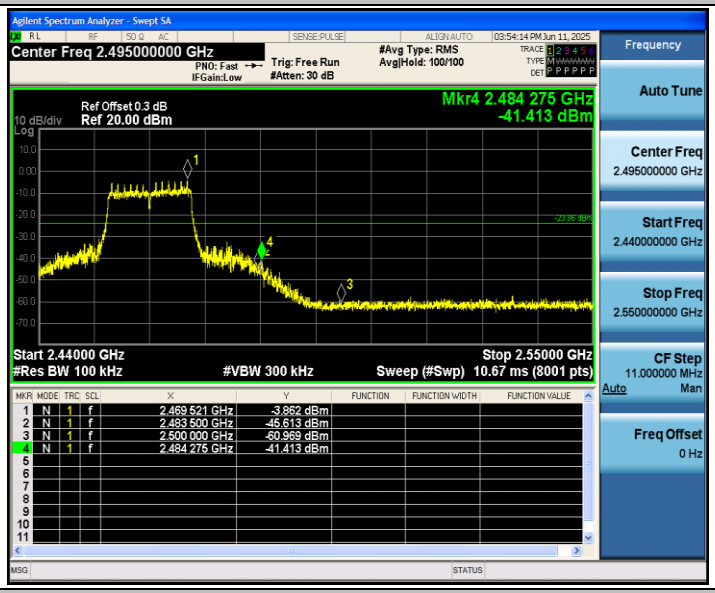
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.64	-34.57	≤-17.36	PASS
		High	2462	1.36	-51.14	≤-18.64	PASS
11G	Ant1	Low	2412	-2.45	-35.23	≤-22.45	PASS
		High	2462	-3.86	-41.41	≤-23.86	PASS
11N20SISO	Ant1	Low	2412	-2.38	-31.37	≤-22.38	PASS
		High	2462	-3.78	-41.05	≤-23.78	PASS
11N40SISO	Ant1	Low	2422	-6.16	-38.67	≤-26.16	PASS
		High	2452	-5.81	-36.69	≤-25.81	PASS

Test Graphs

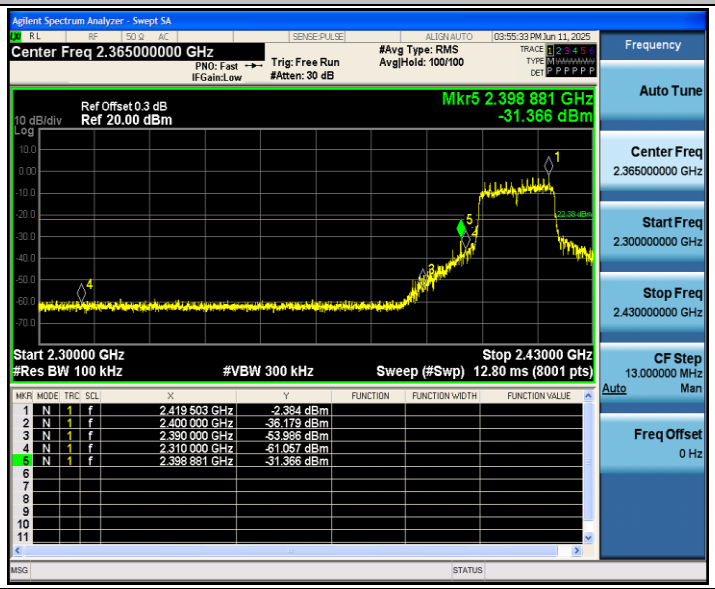
11B_Ant1_Low_2412

11B_Ant1_High_2462

11G_Ant1_Low_2412

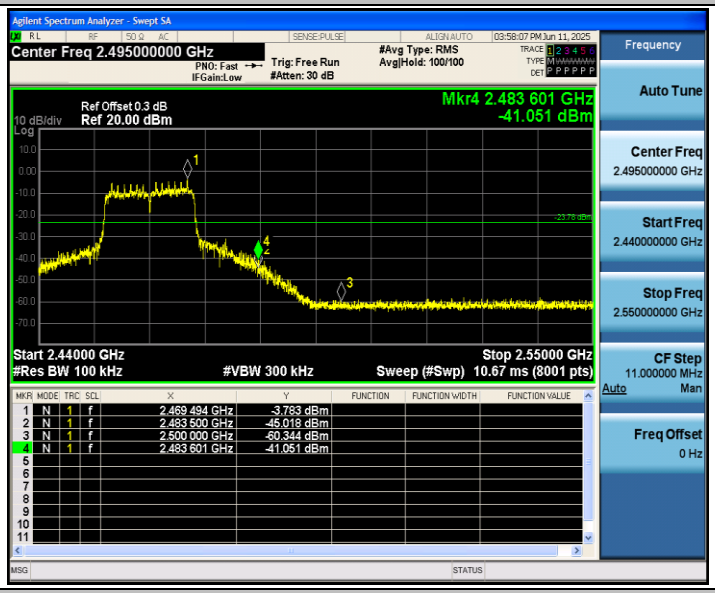
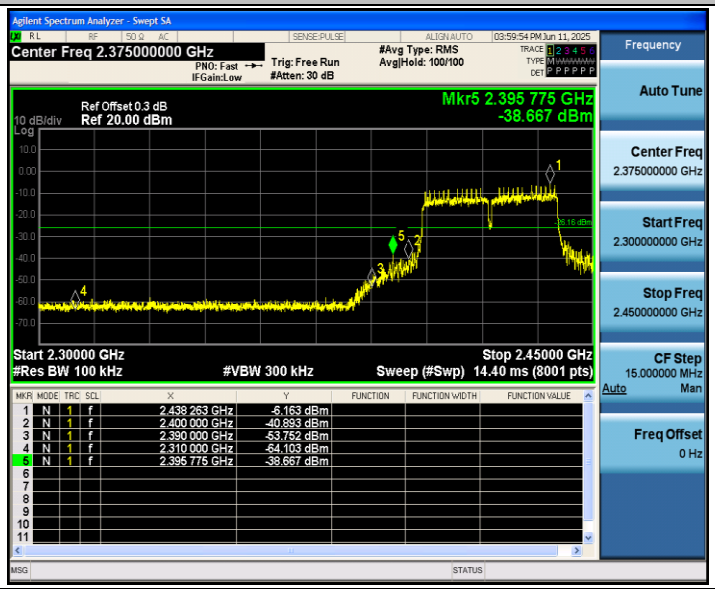


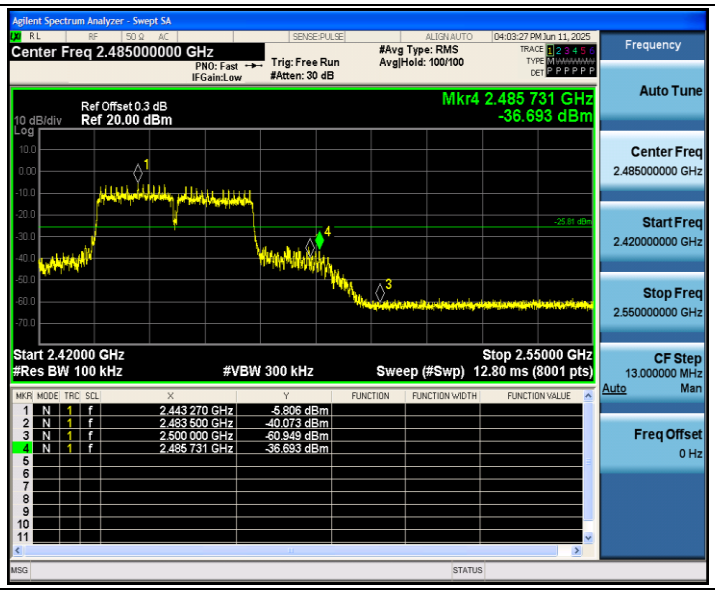
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

11N40SISO_Ant1_Low_2422

11N40SISO_Ant1_High_2452

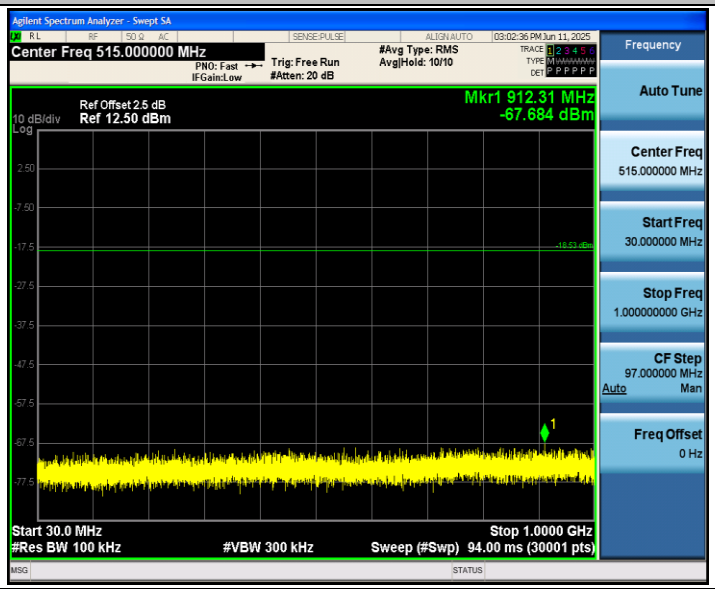

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.485000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
04:03:27 PM Jun 11, 2025
Frequency
Auto Tune
Center Freq
2.485000000 GHz
Start Freq
2.420000000 GHz
Stop Freq
2.550000000 GHz
CF Step
13.000000 MHz
Auto
Man
Freq Offset
0 Hz
Ref Offset 0.3 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.485 731 GHz
-36.693 dBm
-25.81 dBm
Start 2.42000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
Sweep (#Swp) 12.80 ms (8001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.443 270 GHz -5.806 dBm
2 N 1 f 2.483 500 GHz -40.073 dBm
3 N 1 f 2.500 000 GHz -60.949 dBm
4 N 1 f 2.485 731 GHz -36.693 dBm
MSG
STATUS

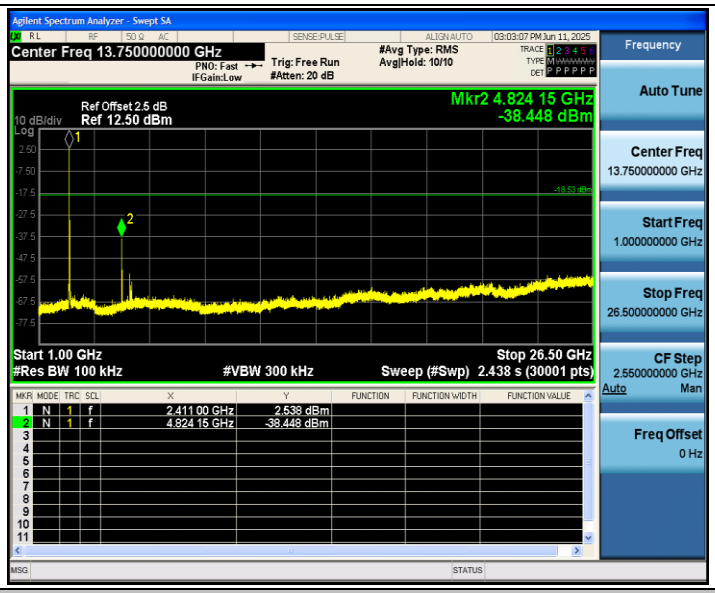
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-67.68	≤-18.53	PASS
			1000~26500	1.47	-38.45	≤-18.53	PASS
		2437	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-66.57	≤-19.03	PASS
			1000~26500	0.97	-37.67	≤-19.03	PASS
		2462	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-67.34	≤-19.68	PASS
			1000~26500	0.32	-30.97	≤-19.68	PASS
11G	Ant1	2412	Reference	-3.23	-3.23	---	PASS
			30~1000	-3.23	-67.06	≤-23.23	PASS
			1000~26500	-3.23	-50.2	≤-23.23	PASS
		2437	Reference	-3.53	-3.53	---	PASS
			30~1000	-3.53	-67.44	≤-23.53	PASS
			1000~26500	-3.53	-50.16	≤-23.53	PASS
		2462	Reference	-4.58	-4.58	---	PASS
			30~1000	-4.58	-67.99	≤-24.58	PASS
			1000~26500	-4.58	-47.12	≤-24.58	PASS
11N20SISO	Ant1	2412	Reference	-2.17	-2.17	---	PASS
			30~1000	-2.17	-68.3	≤-22.17	PASS
			1000~26500	-2.17	-50.75	≤-22.17	PASS
		2437	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-68.06	≤-23.1	PASS
			1000~26500	-3.10	-50.31	≤-23.1	PASS
		2462	Reference	-5.70	-5.70	---	PASS
			30~1000	-5.70	-67.67	≤-25.7	PASS
			1000~26500	-5.70	-47.69	≤-25.7	PASS
11N40SISO	Ant1	2422	Reference	-7.27	-7.27	---	PASS
			30~1000	-7.27	-67.59	≤-27.27	PASS
			1000~26500	-7.27	-51.06	≤-27.27	PASS
		2437	Reference	-6.70	-6.70	---	PASS
			30~1000	-6.70	-67.95	≤-26.7	PASS
			1000~26500	-6.70	-50.35	≤-26.7	PASS
		2452	Reference	-5.86	-5.86	---	PASS
			30~1000	-5.86	-67.3	≤-25.86	PASS
			1000~26500	-5.86	-50.62	≤-25.86	PASS

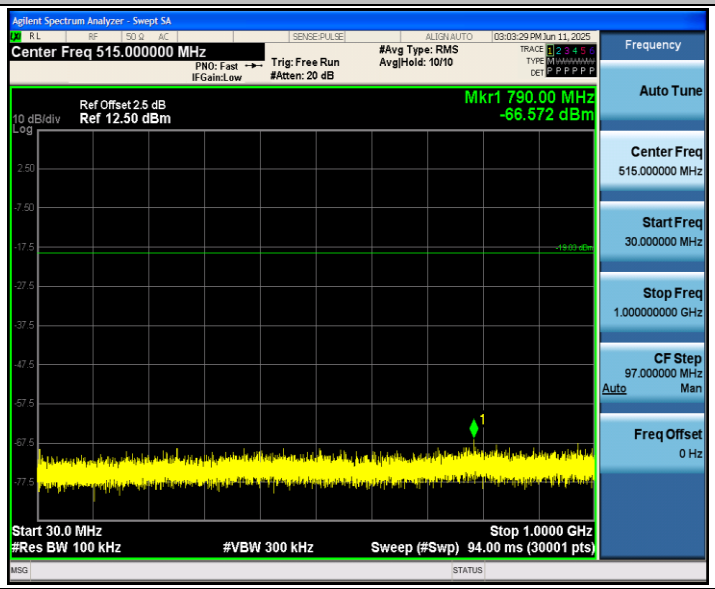
Test Graphs

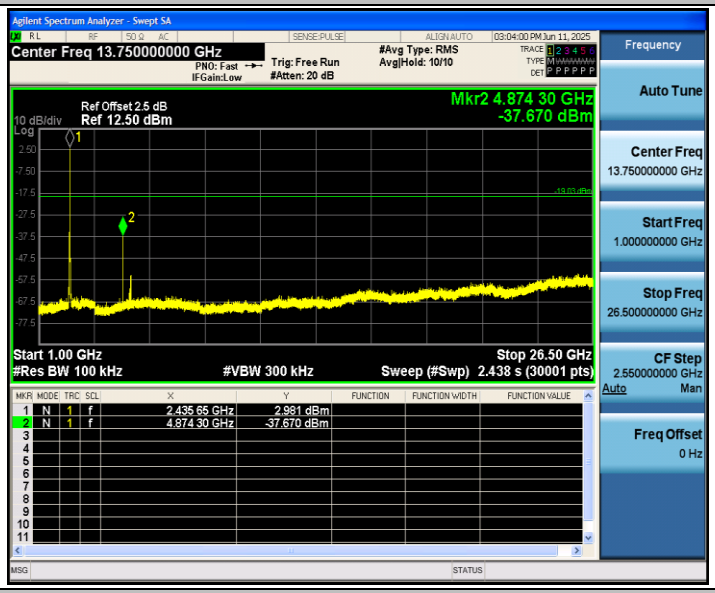
11B_Ant1_2412_0~Reference
11B_Ant1_2412_30~1000

11B_Ant1_2412_1000~26500

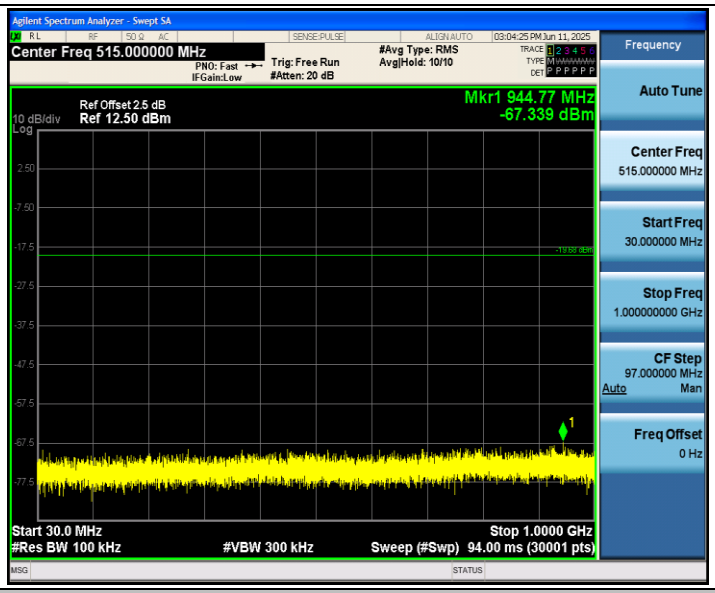


11B_Ant1_2437_0~Reference

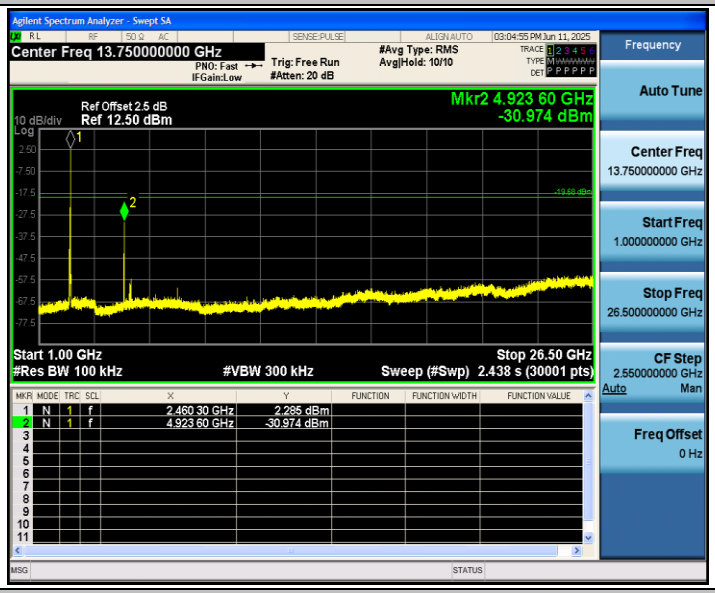
11B_Ant1_2437_30~1000



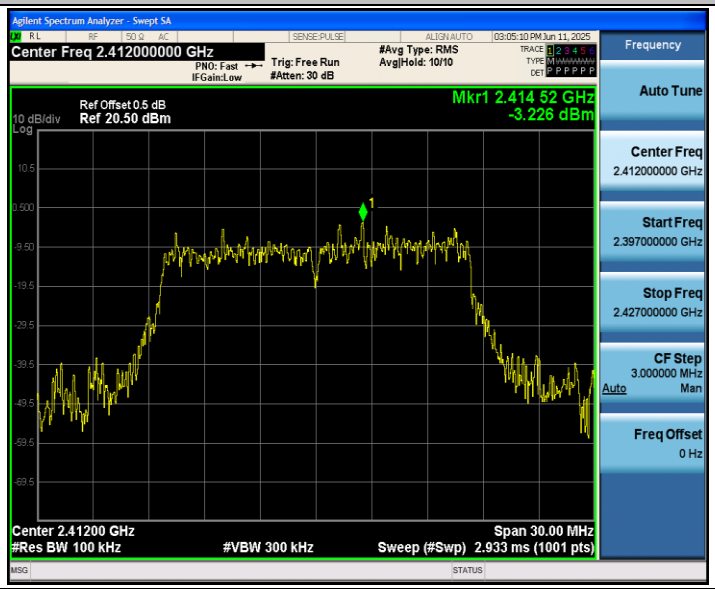
11B_Ant1_2437_1000~26500

11B_Ant1_2462_0~Reference
11B_Ant1_2462_30~1000

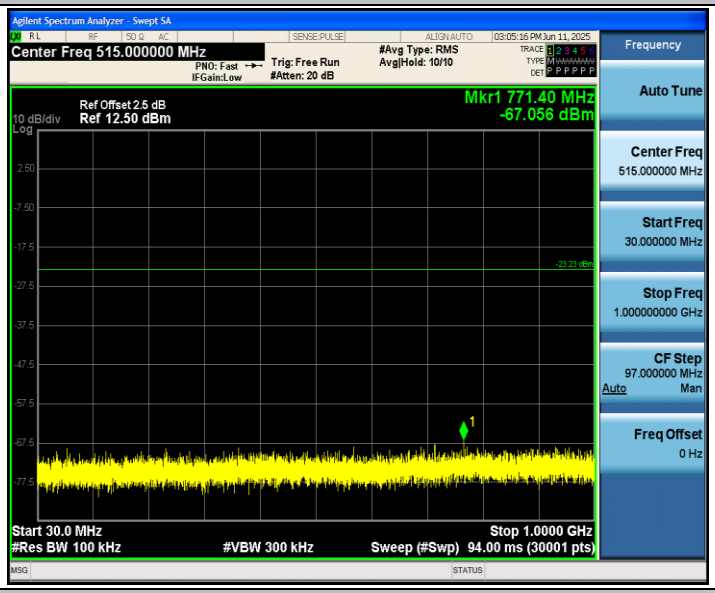
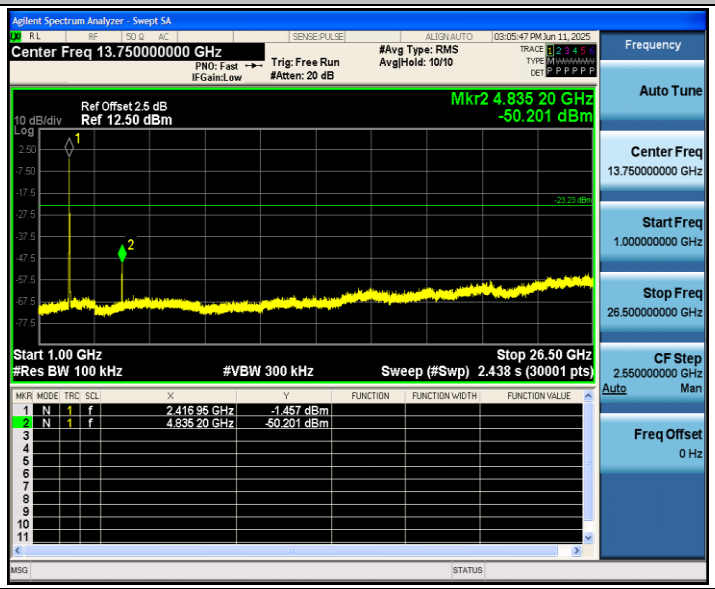


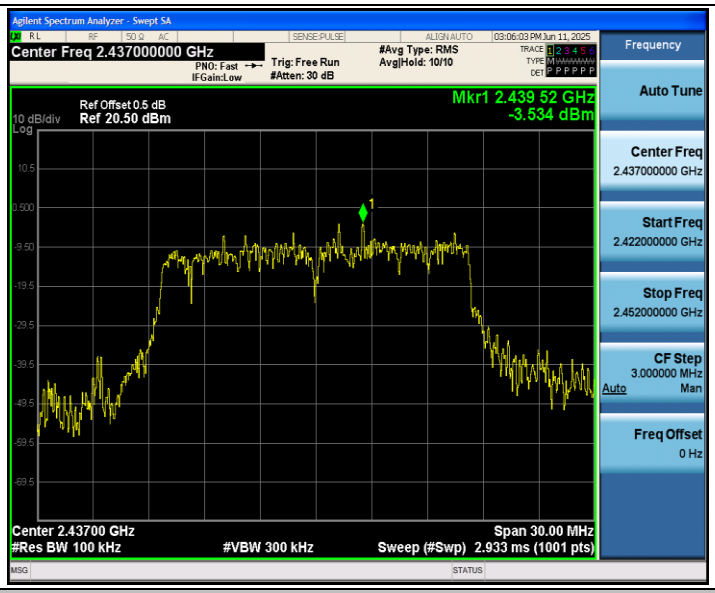
11B_Ant1_2462_1000~26500



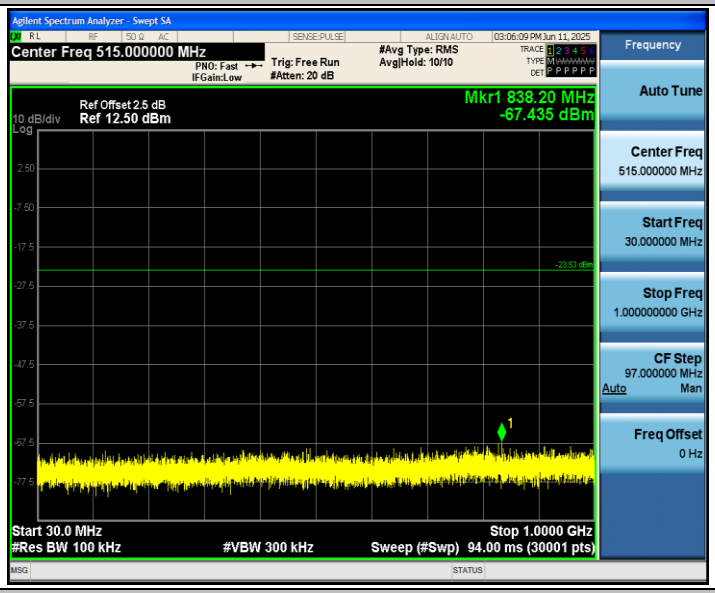
11G_Ant1_2412_0~Reference



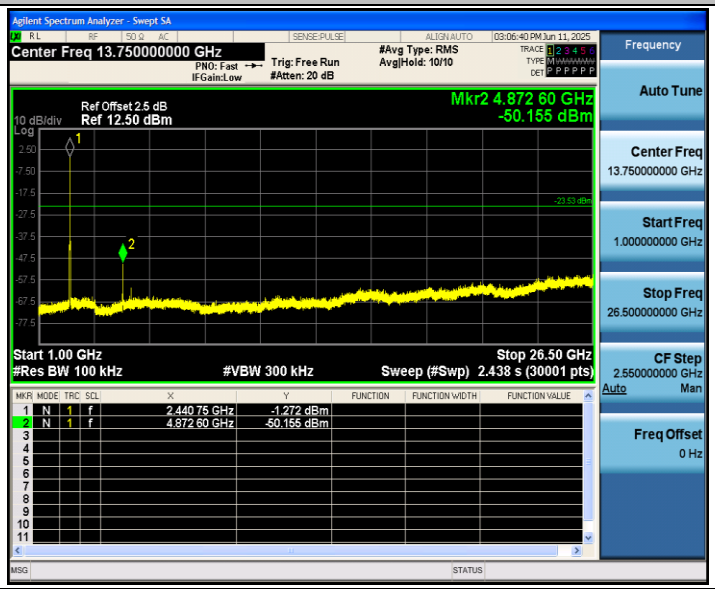
11G_Ant1_2412_30~1000

11G_Ant1_2412_1000~26500

11G_Ant1_2437_0~Reference

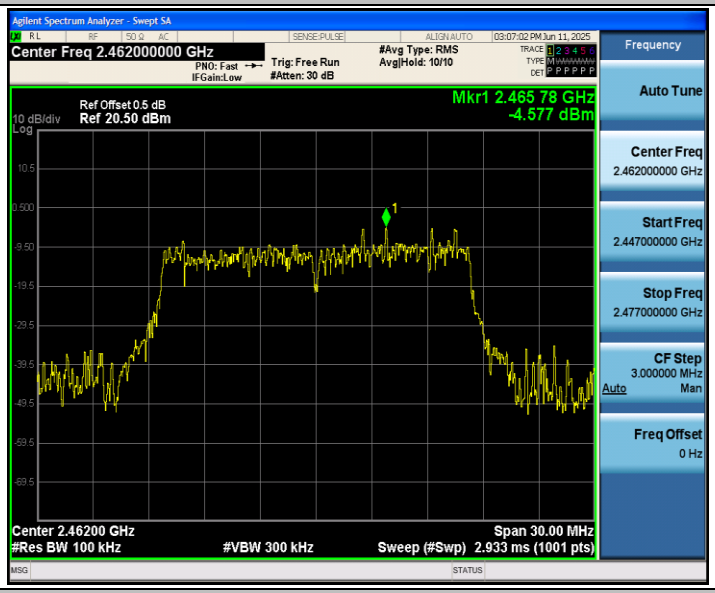
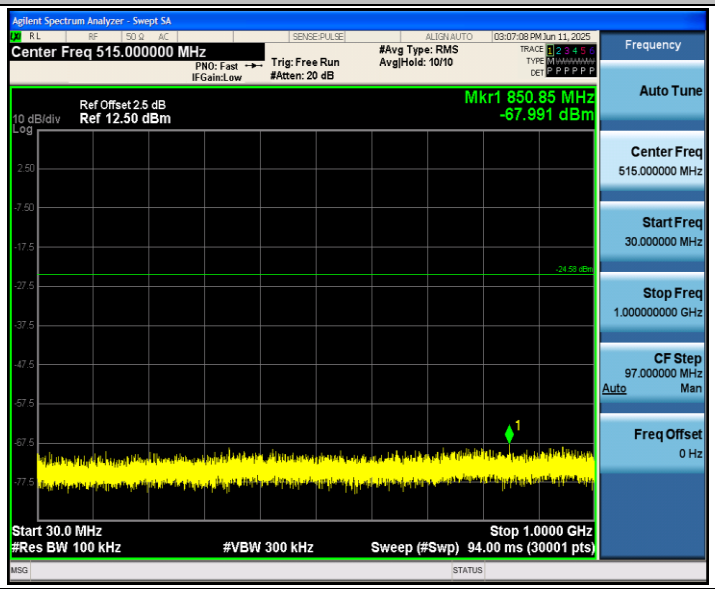


11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference

11G_Ant1_2462_30~1000

11G_Ant1_2462_1000~26500