Appendix I WIFI 2.4G Test Data
Applicant:Shenzhen Xin An Zhuo Technology Co.,Ltd.
Report No: DLE-250429006R
EUT: Car Video Player
M/N: W1
Standard:FCC Part15 Subpart C, Section 15.247
Test Power Supply: DC 5V/3A from Car Charger
Ambient Condition: 24.7 ℃, 52 %RH, 101.325 kPa
Test Date: 2025.05.07 **Test Engineer:** Ken Tan

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2407.960	2416.000	0.5	PASS
		2437	8.000	2433.000	2441.000	0.5	PASS
		2462	8.080	2457.960	2466.040	0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.400	2429.440	2444.840	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.040	2434.480	2469.520	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

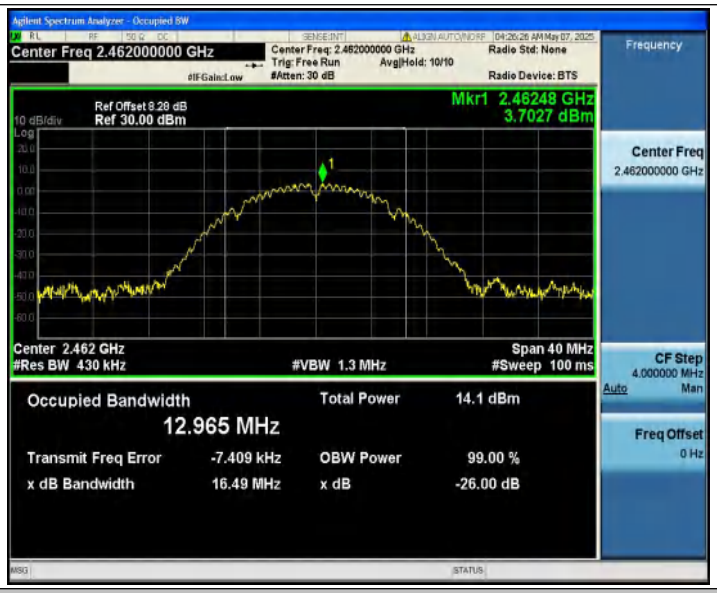
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.856	2405.5844	2418.4404	---	---
		2437	13.106	2430.4697	2443.5757	---	---
		2462	12.965	2455.5101	2468.4751	---	---
11G	Ant1	2412	16.550	2403.7153	2420.2653	---	---
		2437	16.534	2428.7088	2445.2428	---	---
		2462	16.490	2453.7218	2470.2118	---	---
11N20SISO	Ant1	2412	17.575	2403.1942	2420.7692	---	---
		2437	17.712	2428.1152	2445.8272	---	---
		2462	17.613	2453.2071	2470.8201	---	---
11N40SISO	Ant1	2422	36.200	2403.9050	2440.1050	---	---
		2437	35.952	2419.0429	2454.9949	---	---
		2452	36.002	2433.9802	2469.9822	---	---

Test Graphs

11B_Ant1_2412

11B_Ant1_2437

11B_Ant1_2462



11G_Ant1_2412

11G_Ant1_2437

11G_Ant1_2462

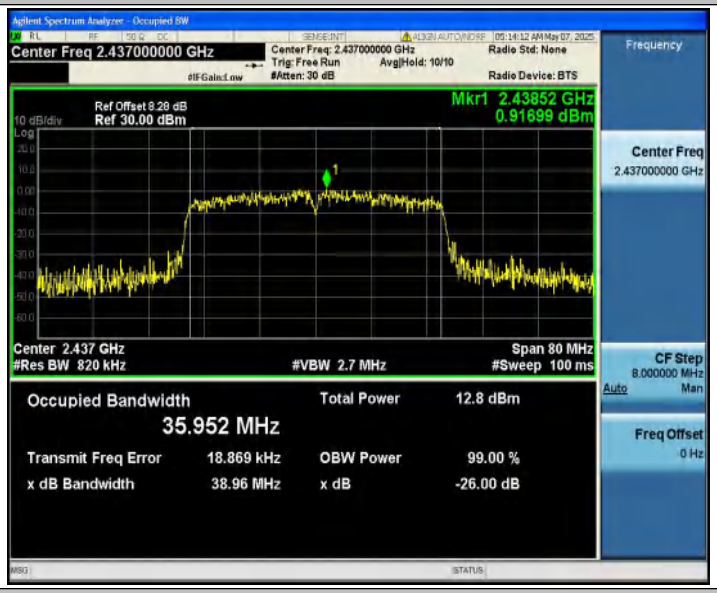
11N20SISO_Ant1_2412

11N20SISO_Ant1_2437

11N20SISO_Ant1_2462

11N40SISO_Ant1_2422

11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Channel	Set Power	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	---	13.33	≤30.00	PASS
		2437	---	14.39	≤30.00	PASS
		2462	---	13.97	≤30.00	PASS
11G	Ant1	2412	---	16.65	≤30.00	PASS
		2437	---	17.52	≤30.00	PASS
		2462	---	17.34	≤30.00	PASS
11N20SISO	Ant1	2412	---	16.29	≤30.00	PASS
		2437	---	17.44	≤30.00	PASS
		2462	---	17.08	≤30.00	PASS
11N40SISO	Ant1	2422	---	16.81	≤30.00	PASS
		2437	---	16.77	≤30.00	PASS
		2452	---	17.77	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.24	≤8.00	PASS
		2437	-8.23	≤8.00	PASS
		2462	-8.40	≤8.00	PASS
11G	Ant1	2412	-13.37	≤8.00	PASS
		2437	-13.12	≤8.00	PASS
		2462	-13.59	≤8.00	PASS
11N20SISO	Ant1	2412	-15.20	≤8.00	PASS
		2437	-13.12	≤8.00	PASS
		2462	-13.89	≤8.00	PASS
11N40SISO	Ant1	2422	-17.00	≤8.00	PASS
		2437	-18.43	≤8.00	PASS
		2452	-17.13	≤8.00	PASS

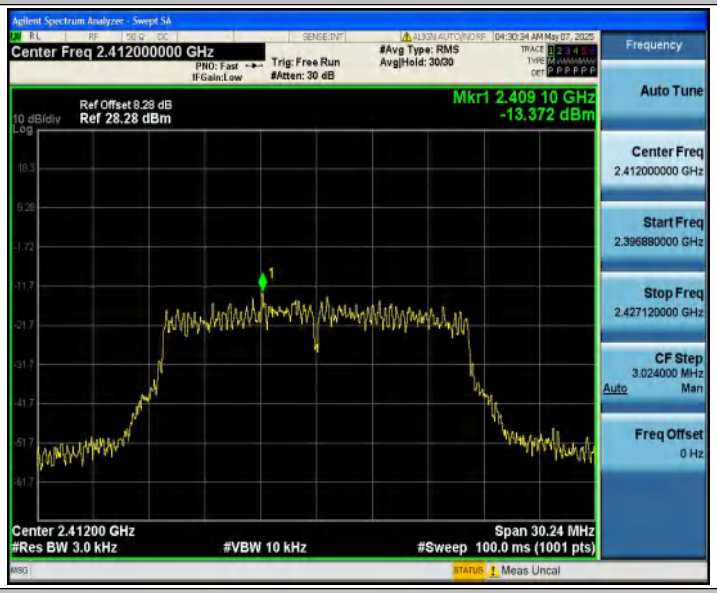
Test Graphs

11B_Ant1_2412

11B_Ant1_2437

11B_Ant1_2462

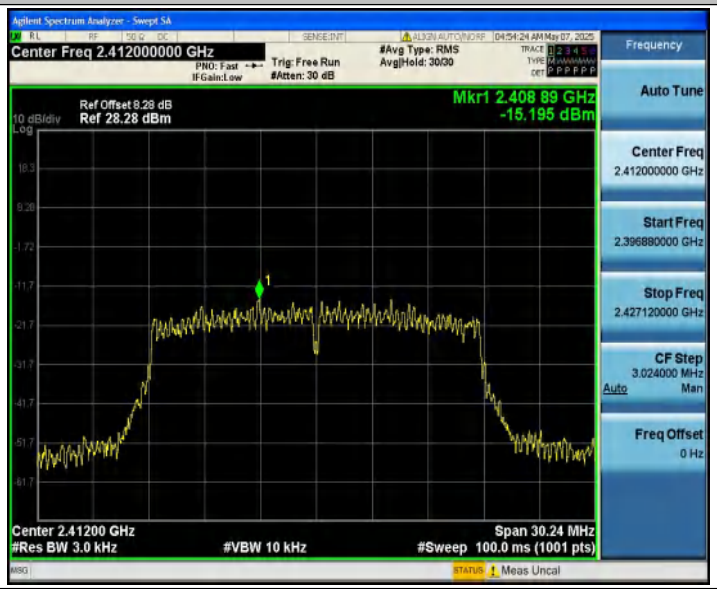
11G_Ant1_2412



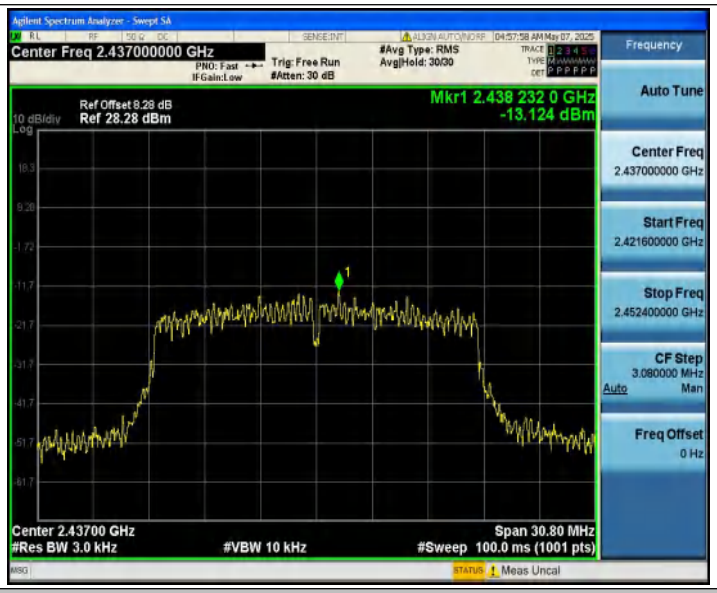
11G_Ant1_2437

11G_Ant1_2462

11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

11N40SISO_Ant1_2422

11N40SISO_Ant1_2437

11N40SISO_Ant1_2452

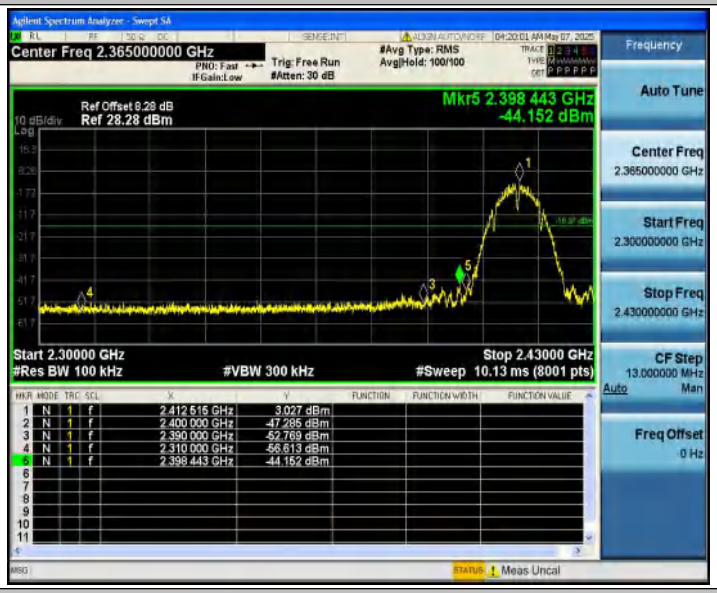
Appendix E: Band edge measurements

Test Result

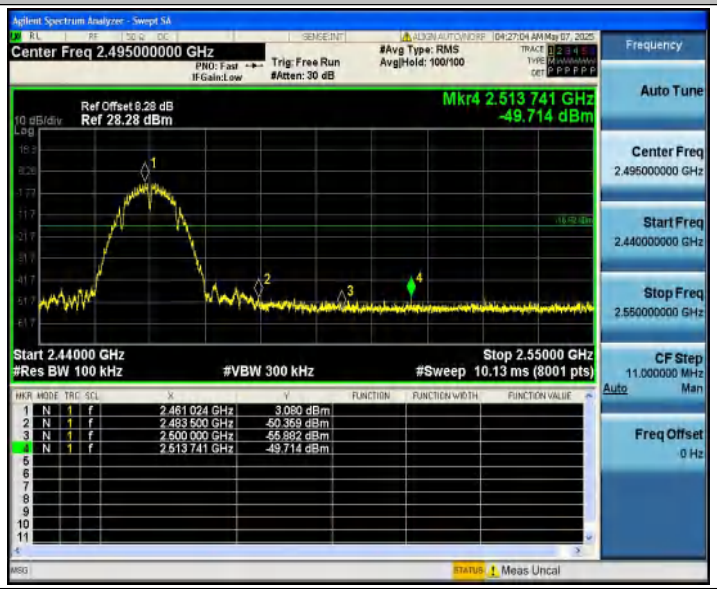
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.03	-44.15	≤-16.97	PASS
		High	2462	3.08	-49.71	≤-16.92	PASS
11G	Ant1	Low	2412	-2.59	-33.33	≤-22.59	PASS
		High	2462	-1.32	-45.73	≤-21.32	PASS
11N20SISO	Ant1	Low	2412	-1.77	-34.37	≤-21.77	PASS
		High	2462	-1.57	-43.12	≤-21.57	PASS
11N40SISO	Ant1	Low	2422	-4.11	-36.13	≤-24.11	PASS
		High	2452	-3.50	-35.89	≤-23.5	PASS

Test Graphs

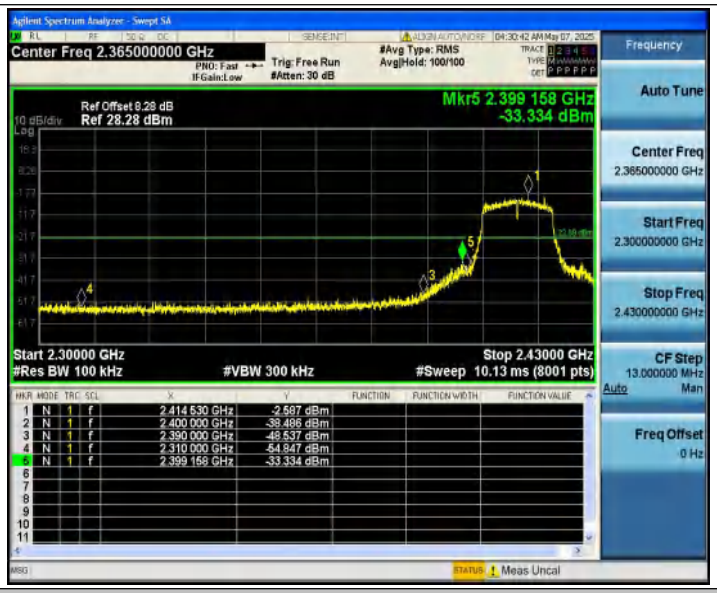
11B_Ant1_Low_2412



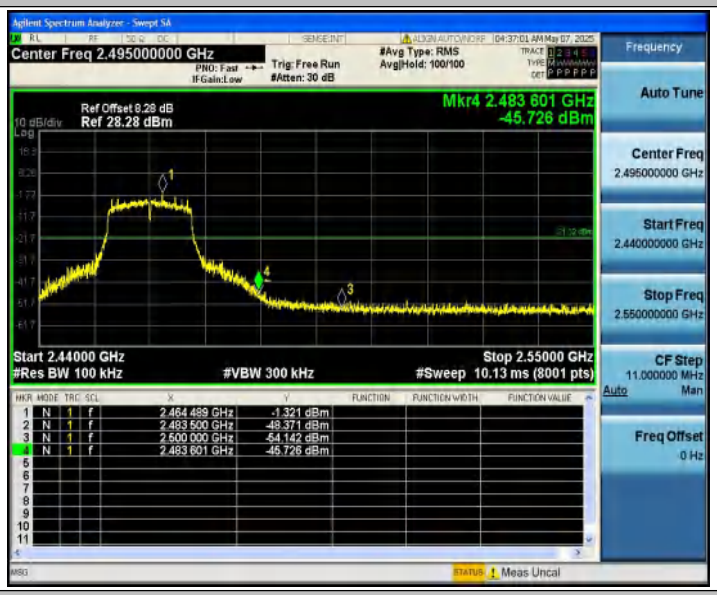
11B_Ant1_High_2462



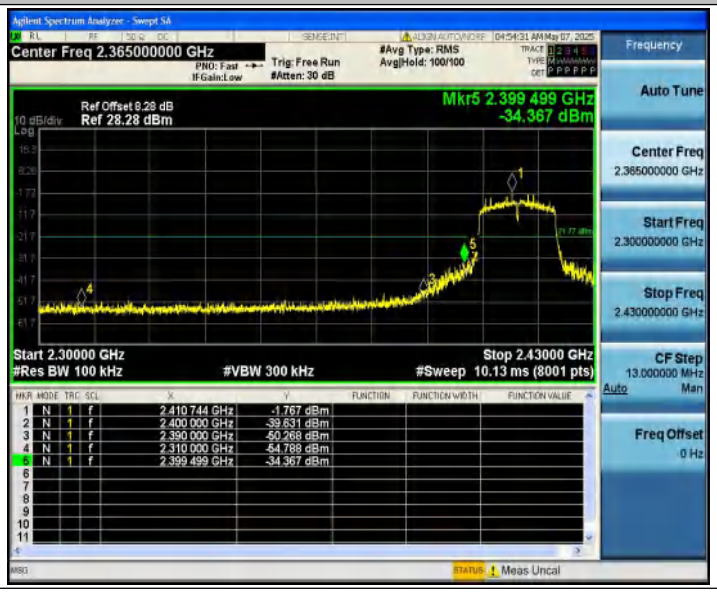
11G_Ant1_Low_2412



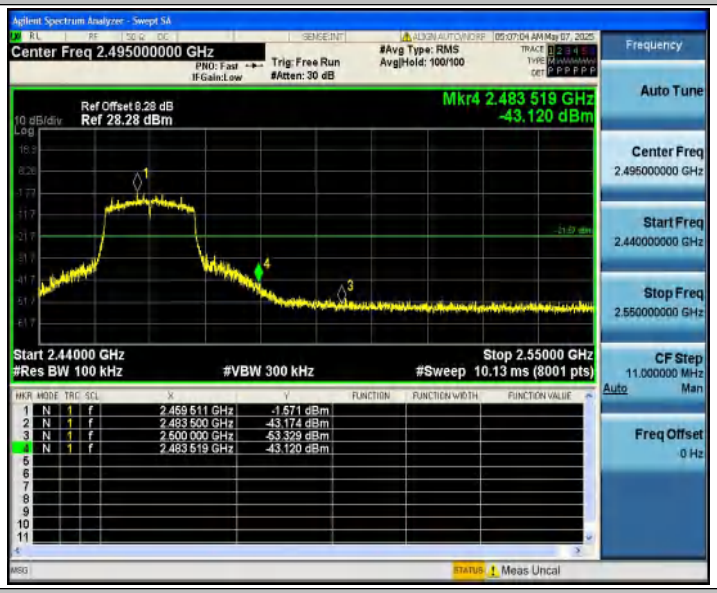
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

11N40SISO_Ant1_High_2452

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.495000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
05:19:02 AM May 07, 2025
Frequency
Auto Tune
Center Freq
2.495000000 GHz
Start Freq
2.440000000 GHz
Stop Freq
2.550000000 GHz
CF Step
11.000000 MHz
Auto
Man
Freq Offset
0 Hz
Ref Offset 9.28 dB
10 dB/div
Ref 28.28 dBm
Mkr4 2.483 986 GHz
-35.888 dBm
Start 2.44000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
#Sweep 10.13 ms (8001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.449 488 GHz -3.495 dBm
2 N 1 f 2.483 500 GHz -42.012 dBm
3 N 1 f 2.500 000 GHz -50.339 dBm
4 N 1 f 2.483 986 GHz -35.888 dBm
MSG
STATUS
Meas Uncal

Appendix F: Conducted Spurious Emission

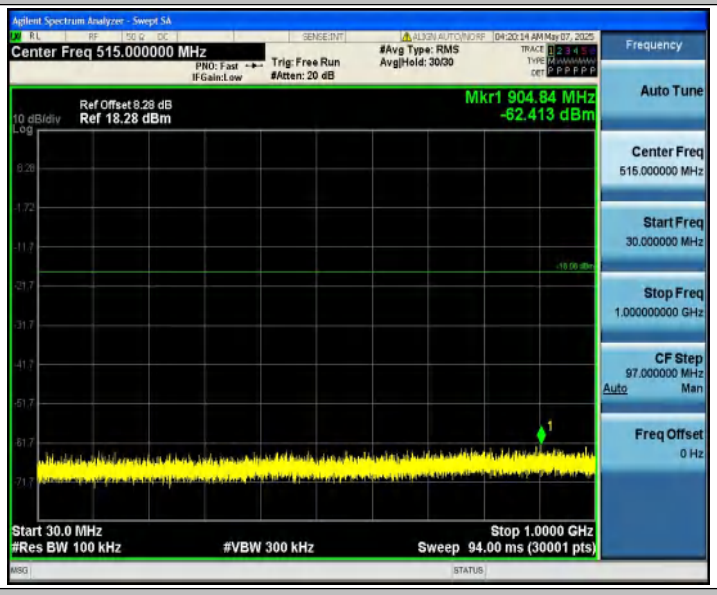
Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-62.41	≤-18.08	PASS
			1000~26500	1.92	-52.8	≤-18.08	PASS
		2437	Reference	2.87	2.87	---	PASS
			30~1000	2.87	-61.32	≤-17.13	PASS
			1000~26500	2.87	-46.24	≤-17.13	PASS
		2462	Reference	3.04	3.04	---	PASS
			30~1000	3.04	-62.59	≤-16.96	PASS
			1000~26500	3.04	-52.52	≤-16.96	PASS
11G	Ant1	2412	Reference	-4.91	-4.91	---	PASS
			30~1000	-4.91	-62.37	≤-24.91	PASS
			1000~26500	-4.91	-47.27	≤-24.91	PASS
		2437	Reference	-3.60	-3.60	---	PASS
			30~1000	-3.60	-62.43	≤-23.6	PASS
			1000~26500	-3.60	-52.75	≤-23.6	PASS
		2462	Reference	-3.90	-3.90	---	PASS
			30~1000	-3.90	-62.34	≤-23.9	PASS
			1000~26500	-3.90	-52.32	≤-23.9	PASS
11N20SISO	Ant1	2412	Reference	-4.91	-4.91	---	PASS
			30~1000	-4.91	-62.22	≤-24.91	PASS
			1000~26500	-4.91	-52.5	≤-24.91	PASS
		2437	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-62.03	≤-20.76	PASS
			1000~26500	-0.76	-52.91	≤-20.76	PASS
		2462	Reference	-3.07	-3.07	---	PASS
			30~1000	-3.07	-62.6	≤-23.07	PASS
			1000~26500	-3.07	-52.6	≤-23.07	PASS
11N40SISO	Ant1	2422	Reference	-5.97	-5.97	---	PASS
			30~1000	-5.97	-62.58	≤-25.97	PASS
			1000~26500	-5.97	-53.07	≤-25.97	PASS
		2437	Reference	-5.86	-5.86	---	PASS
			30~1000	-5.86	-61.91	≤-25.86	PASS
			1000~26500	-5.86	-52.72	≤-25.86	PASS
		2452	Reference	-4.44	-4.44	---	PASS
			30~1000	-4.44	-61.66	≤-24.44	PASS
			1000~26500	-4.44	-52.96	≤-24.44	PASS

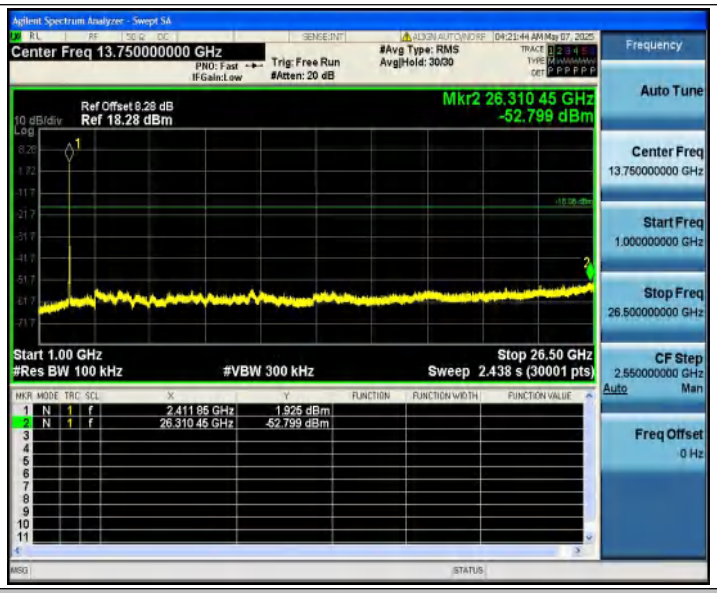
Test Graphs

11B_Ant1_2412_0~Reference

11B_Ant1_2412_30~1000

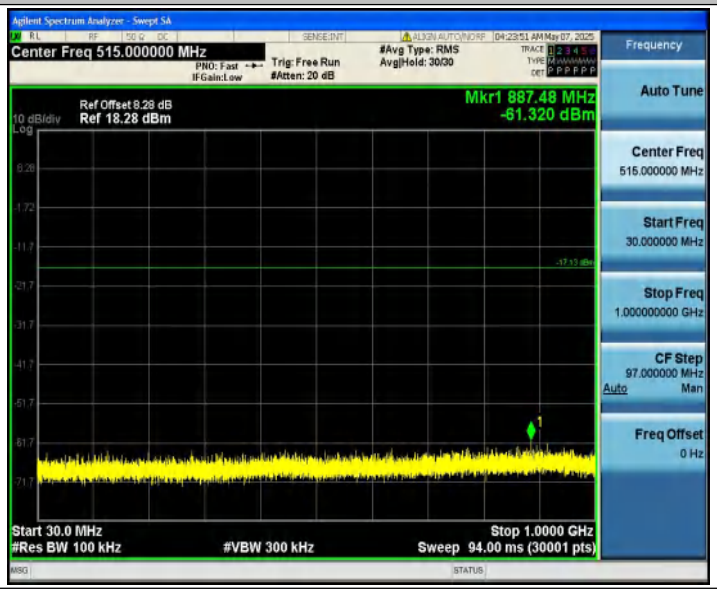


11B_Ant1_2412_1000~26500

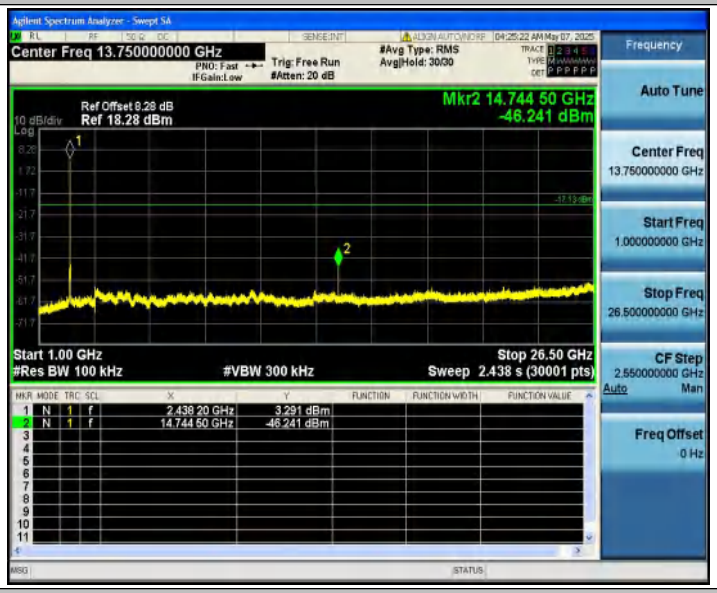


11B_Ant1_2437_0~Reference

11B_Ant1_2437_30~1000

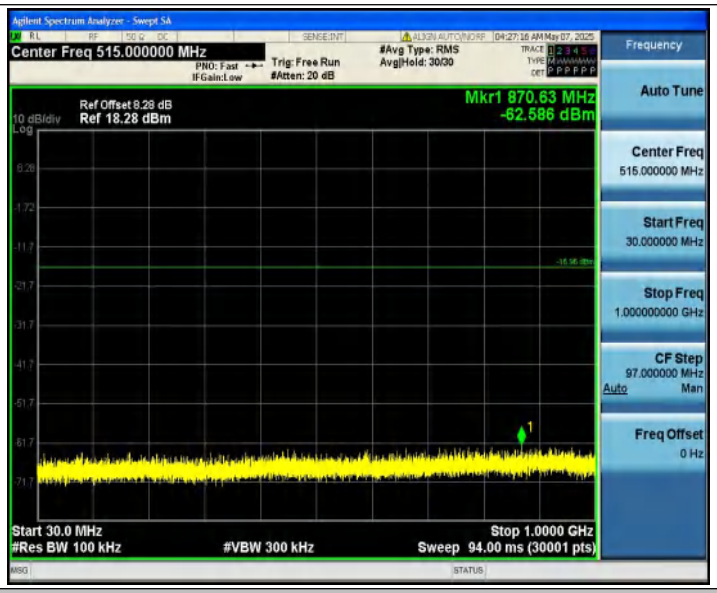


11B_Ant1_2437_1000~26500

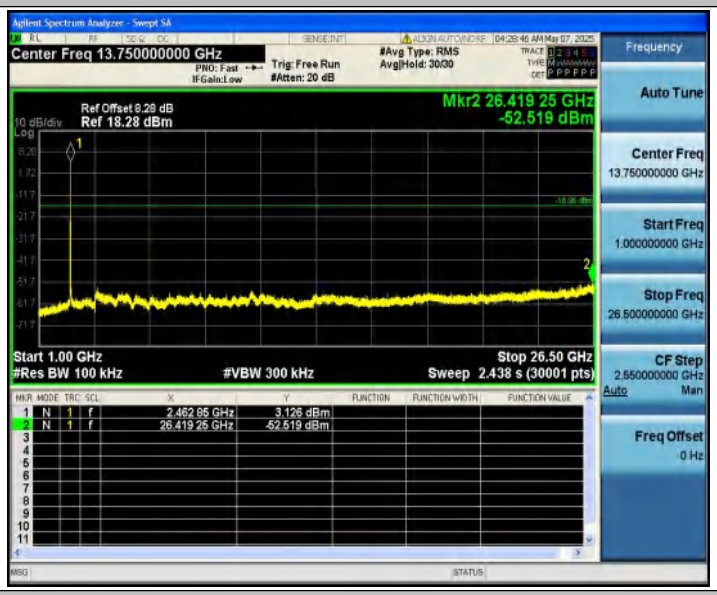


11B_Ant1_2462_0~Reference

11B_Ant1_2462_30~1000

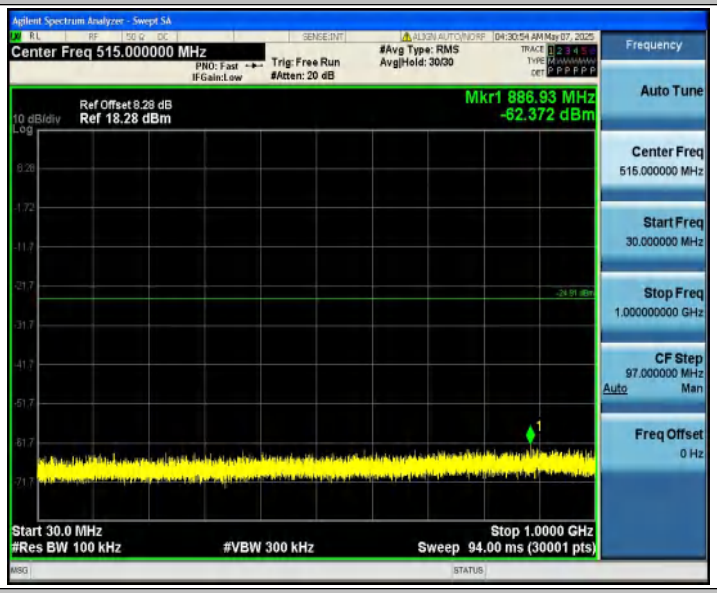


11B_Ant1_2462_1000~26500

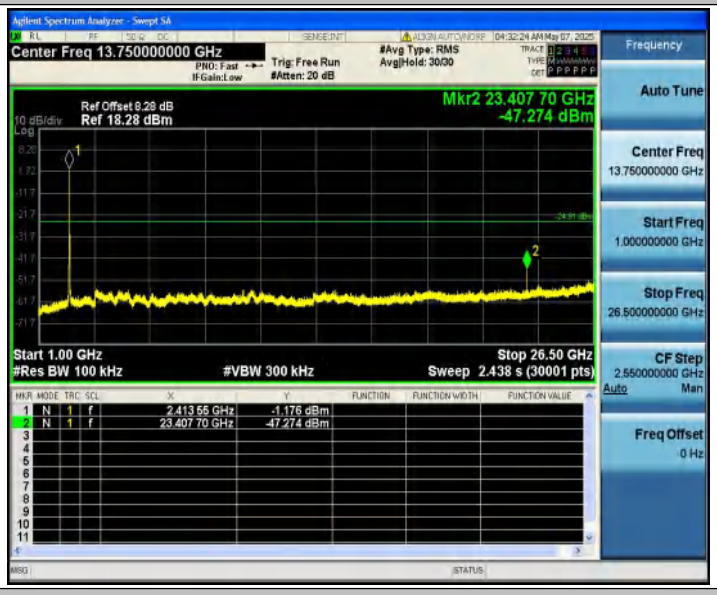


11G_Ant1_2412_0~Reference

11G_Ant1_2412_30~1000

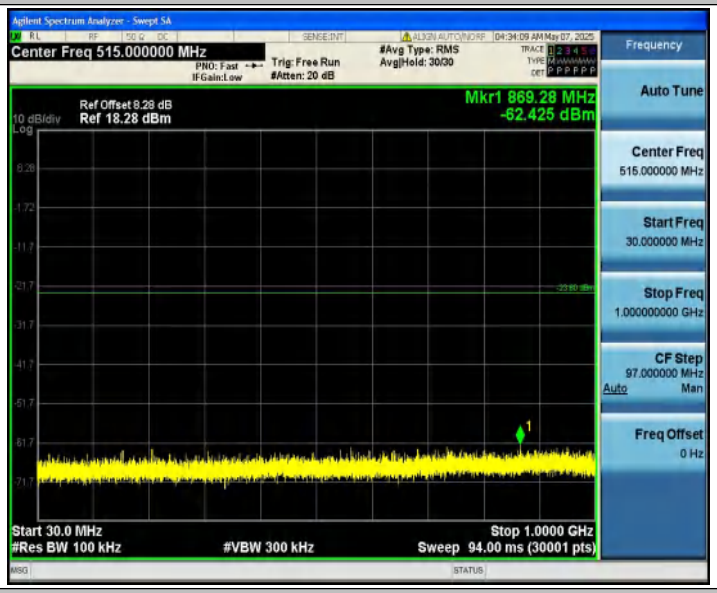


11G_Ant1_2412_1000~26500

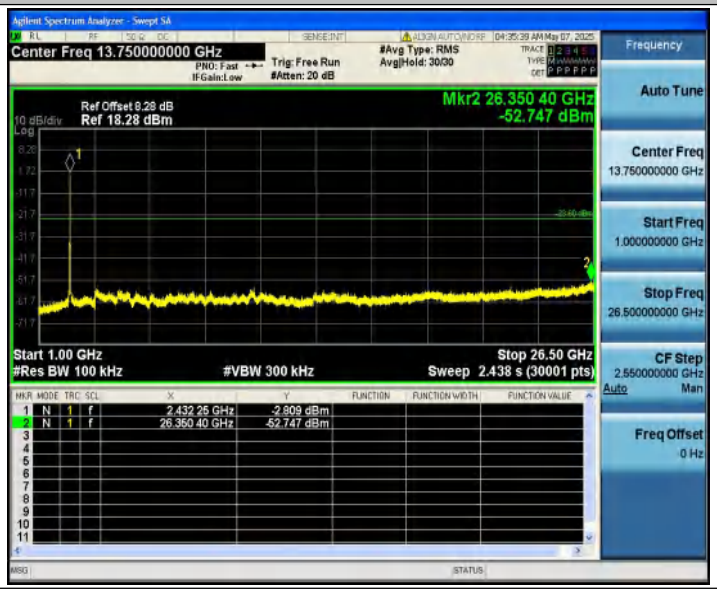


11G_Ant1_2437_0~Reference

11G_Ant1_2437_30~1000

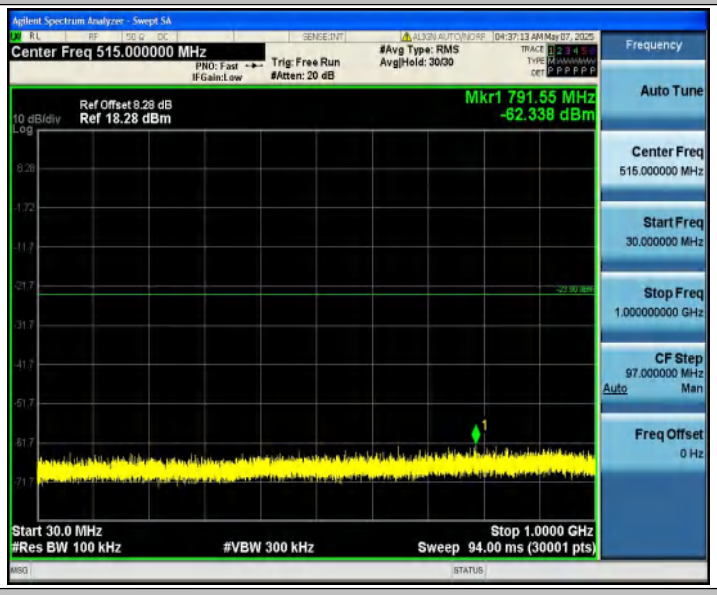


11G_Ant1_2437_1000~26500

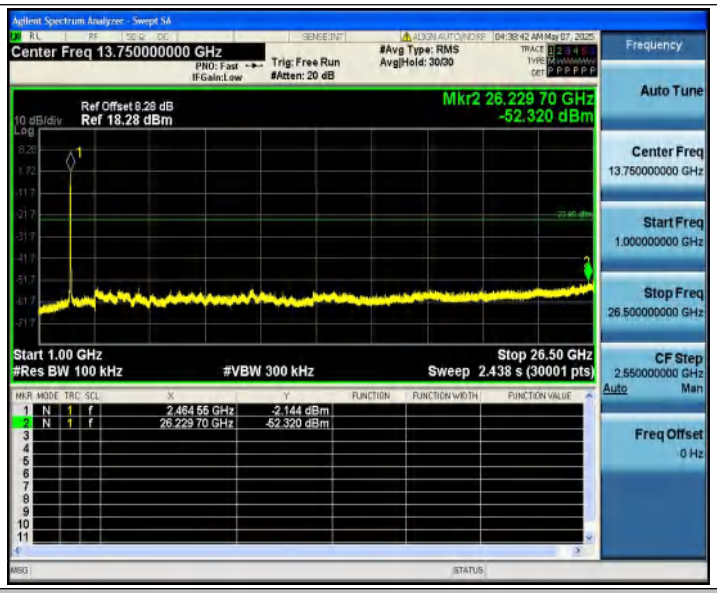


11G_Ant1_2462_0~Reference

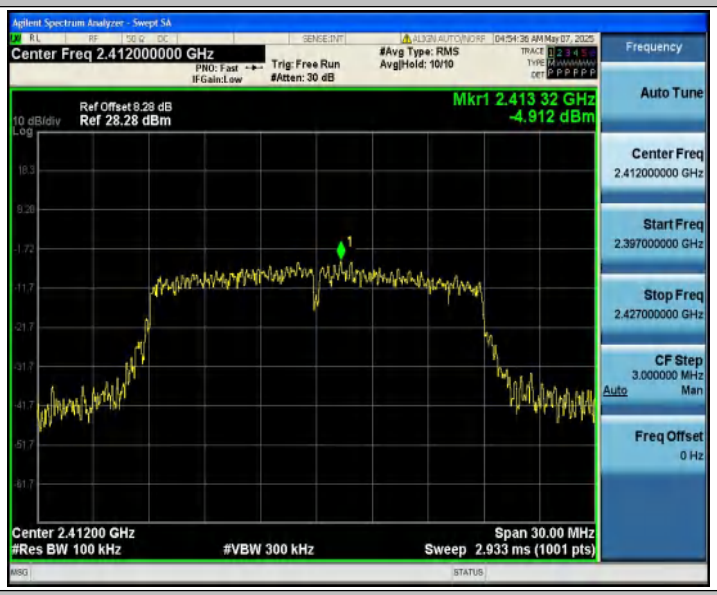
11G_Ant1_2462_30~1000



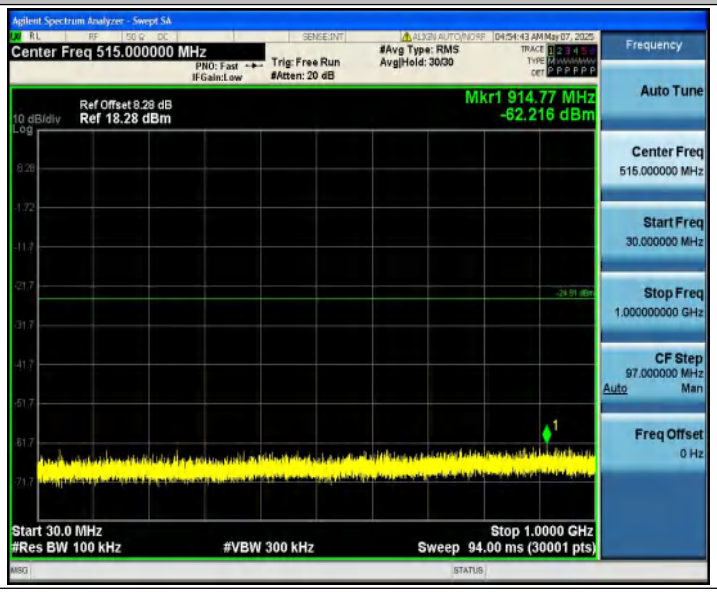
11G_Ant1_2462_1000~26500



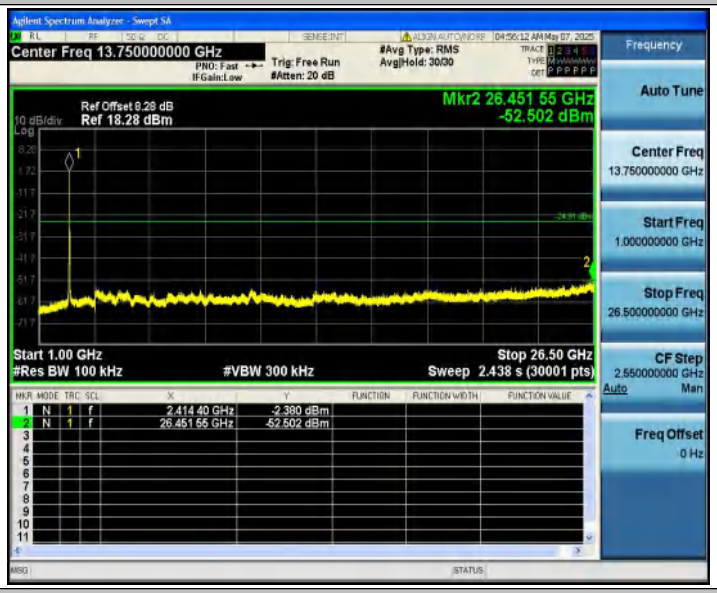
11N20SISO_Ant1_2412_0~Reference



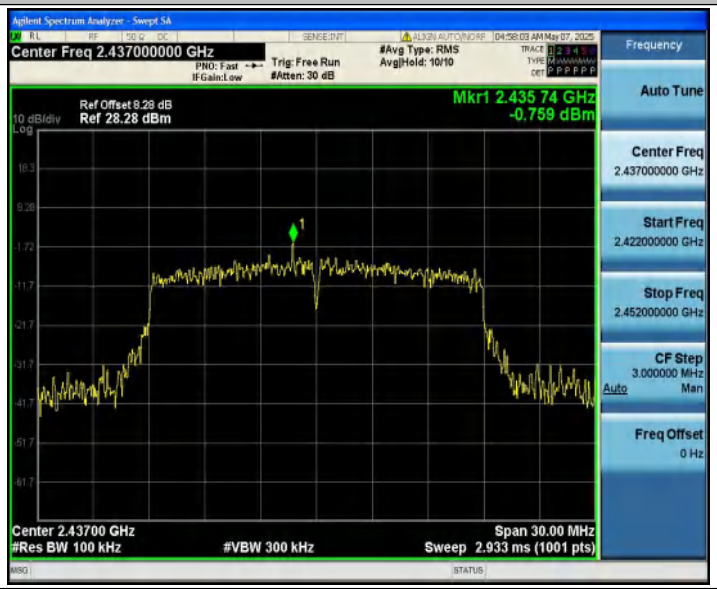
11N20SISO_Ant1_2412_30~1000



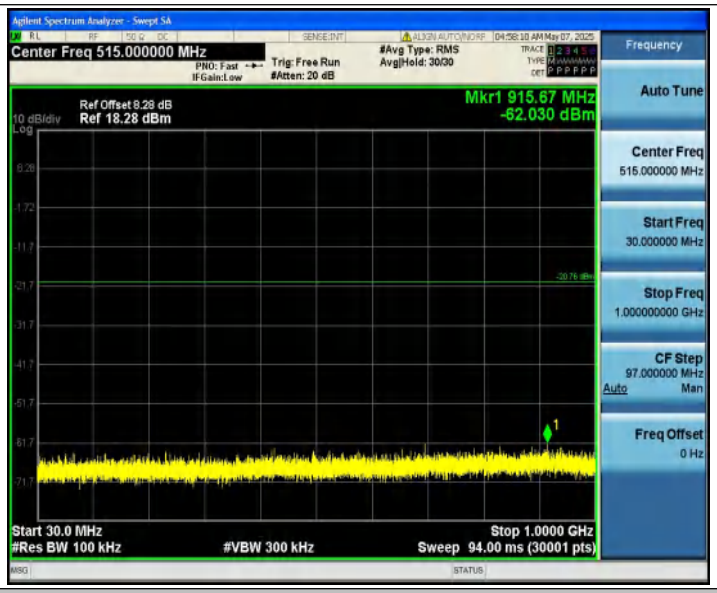
11N20SISO_Ant1_2412_1000~26500



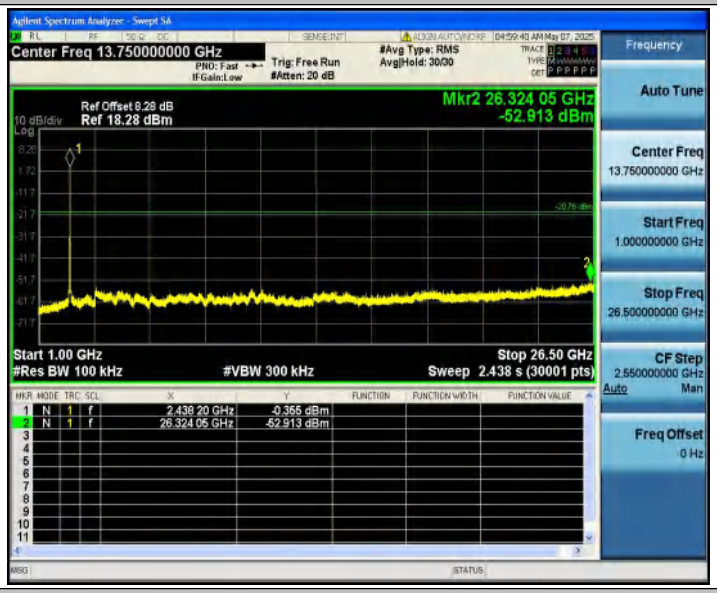
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

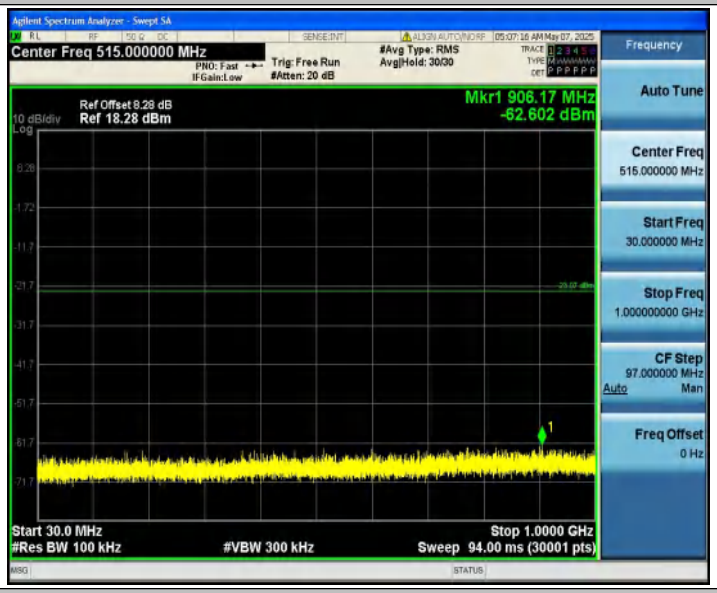


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

11N20SISO_Ant1_2462_30~1000



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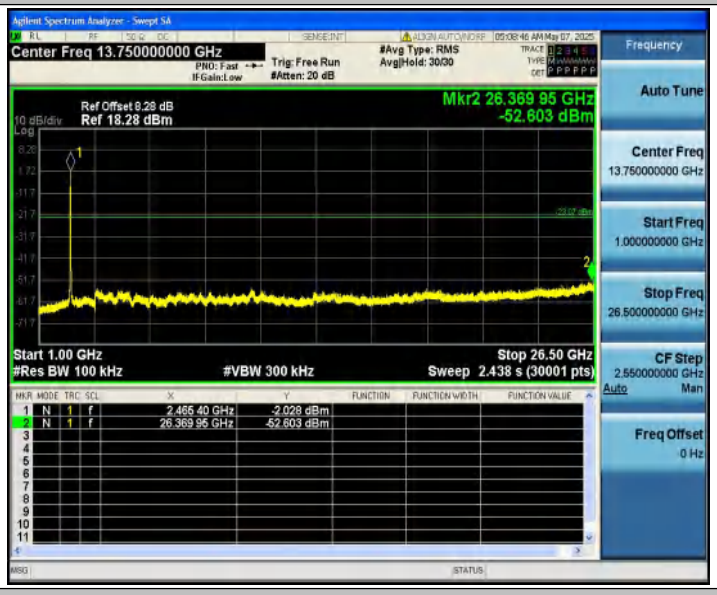

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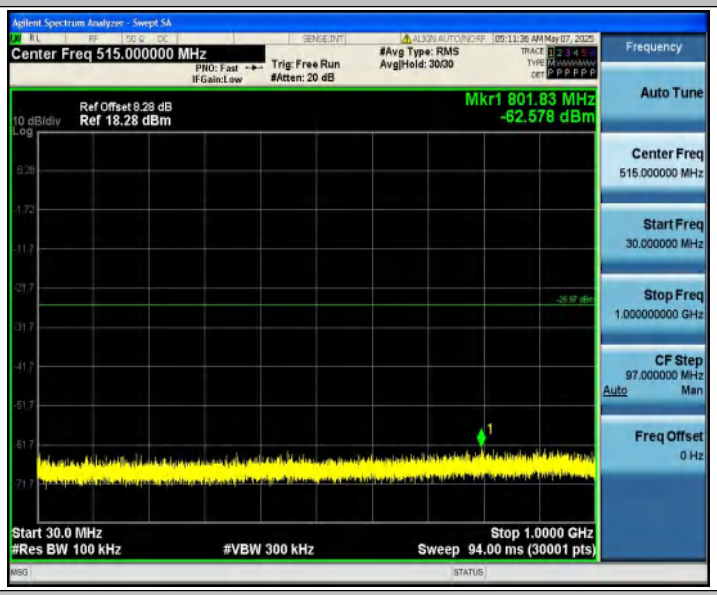

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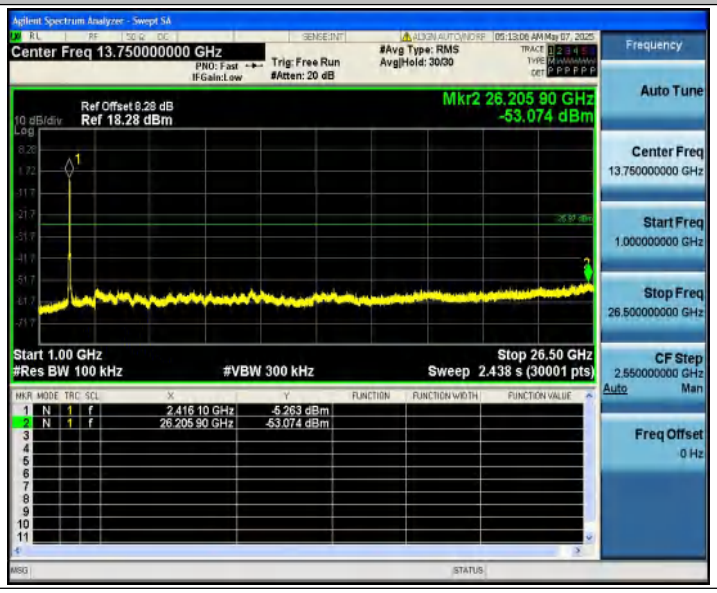
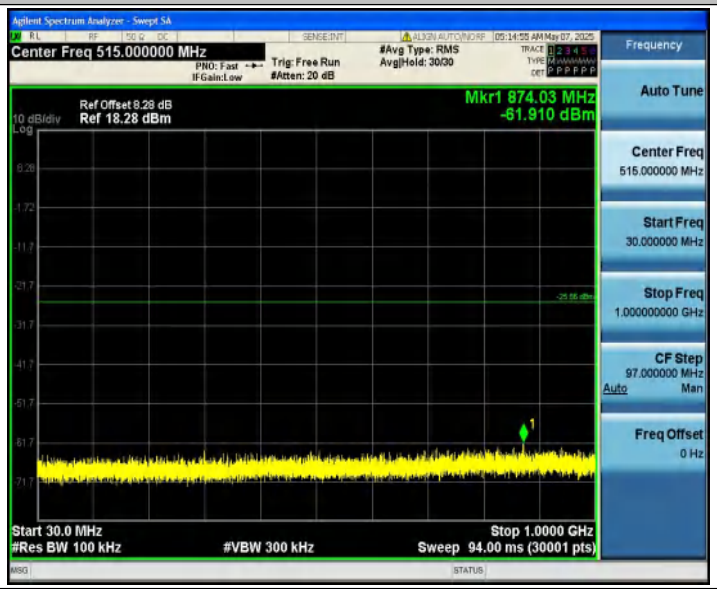


11N40SISO_Ant1_2437_0~Reference

11N40SISO_Ant1_2437_30~1000



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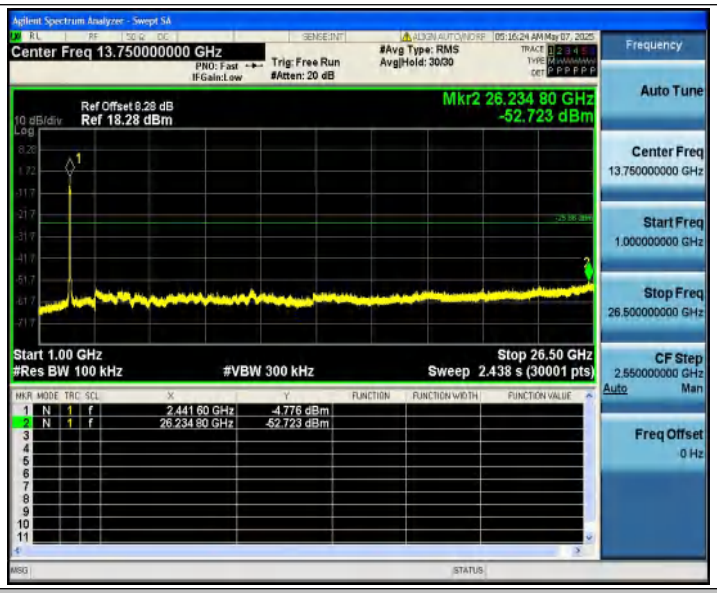

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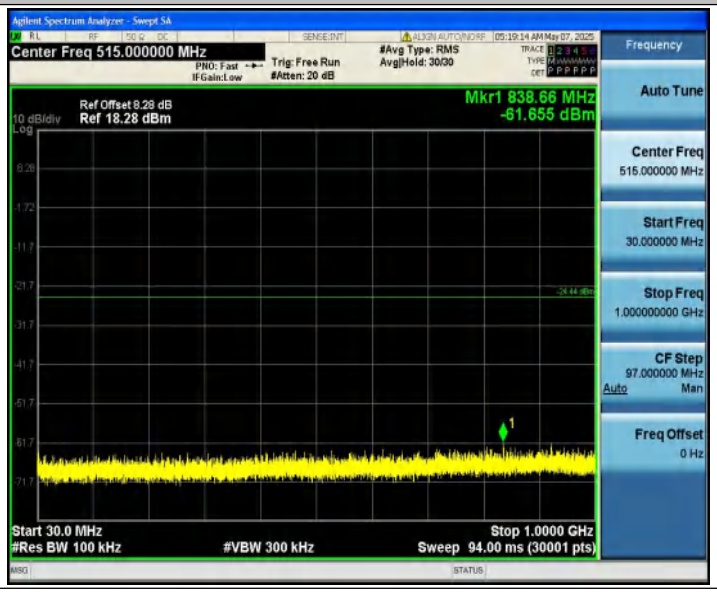
11N40SISO_Ant1_2452_30~1000



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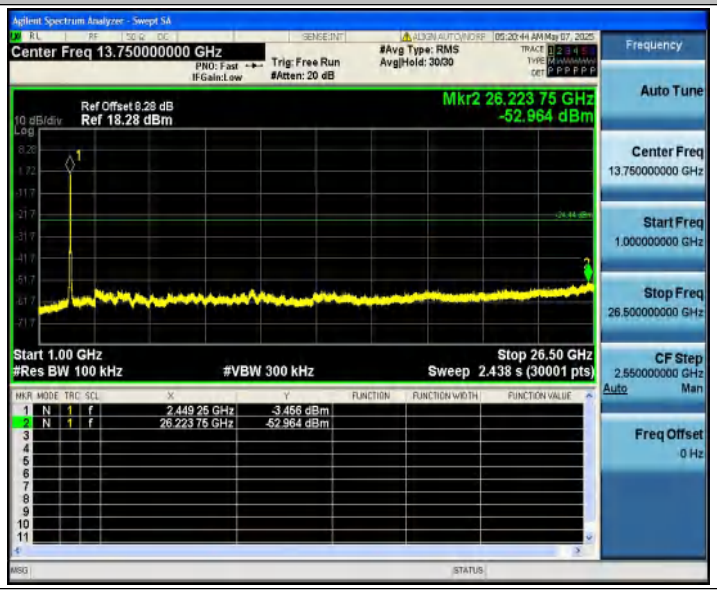


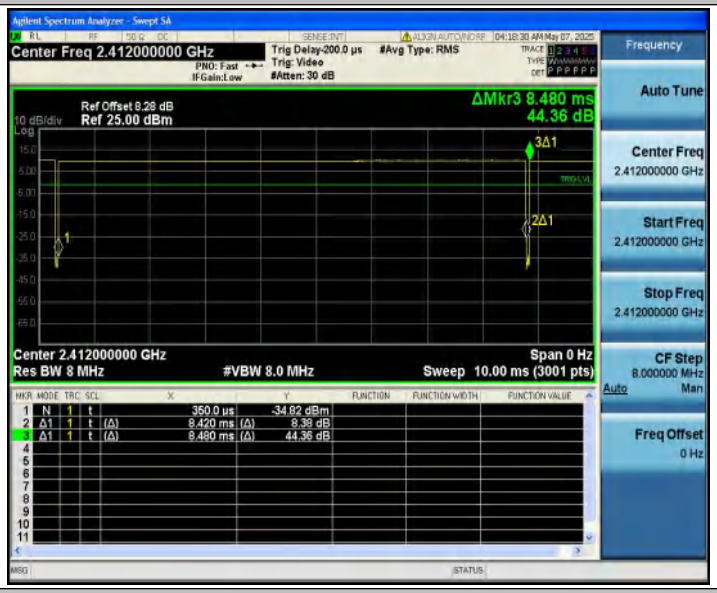
Appendix G: Duty Cycle

Test Result

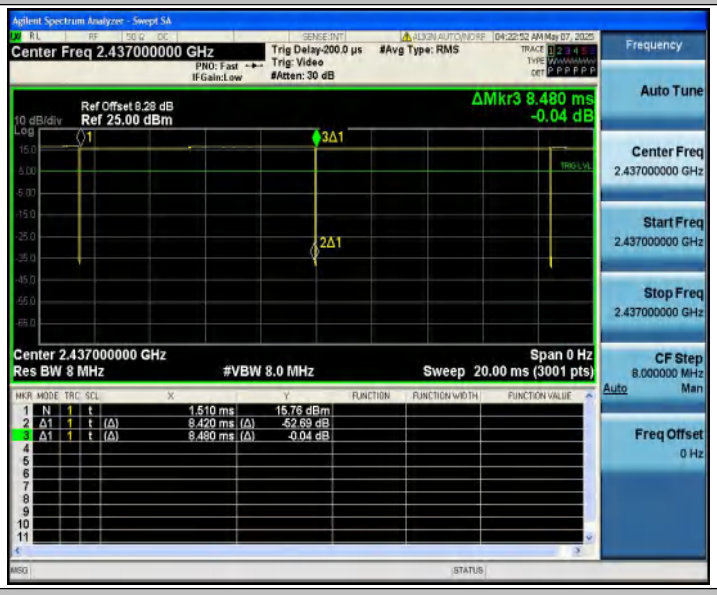
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	X	xFactor
11B	Ant1	2412	8.42	8.48	99.29	0.9929	0.031
		2437	8.42	8.48	99.29	0.9929	0.031
		2462	8.41	8.47	99.29	0.9929	0.031
11G	Ant1	2412	1.39	1.45	95.86	0.9586	0.184
		2437	1.39	1.45	95.86	0.9586	0.184
		2462	1.40	1.46	95.89	0.9589	0.182
11N20SISO	Ant1	2412	1.31	1.37	95.62	0.9562	0.195
		2437	1.31	1.37	95.62	0.9562	0.195
		2462	1.31	1.37	95.62	0.9562	0.195
11N40SISO	Ant1	2422	0.65	0.70	92.86	0.9286	0.322
		2437	0.65	0.71	91.55	0.9155	0.383
		2452	0.64	0.70	91.43	0.9143	0.389

Test Graphs

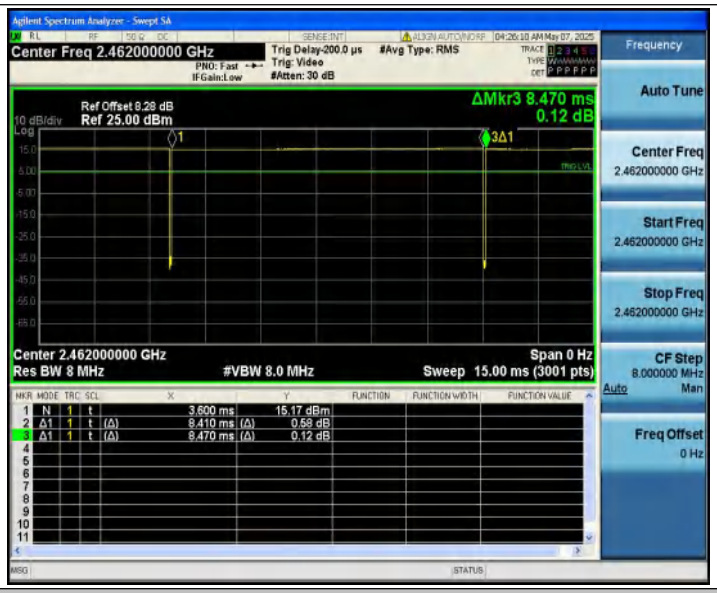
11B_Ant1_2412



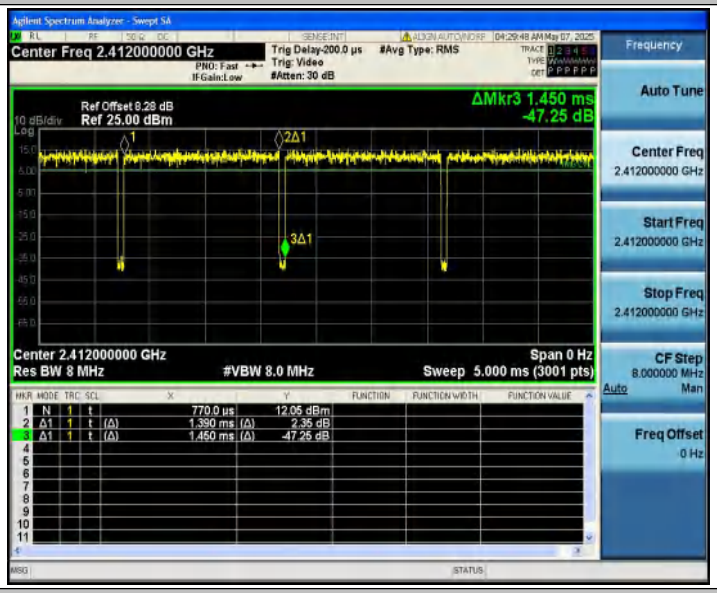
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



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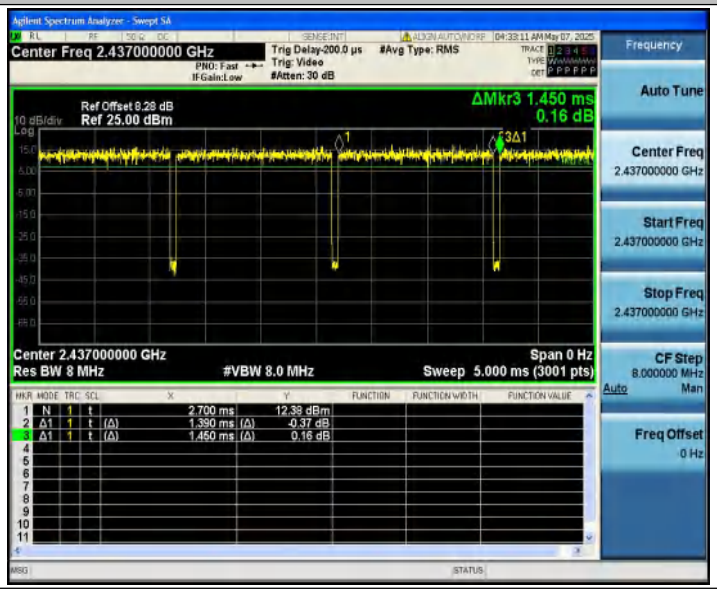

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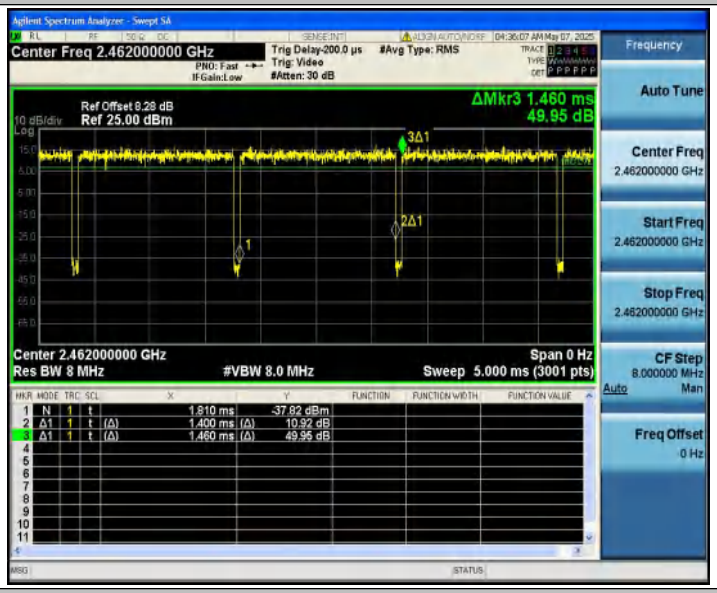

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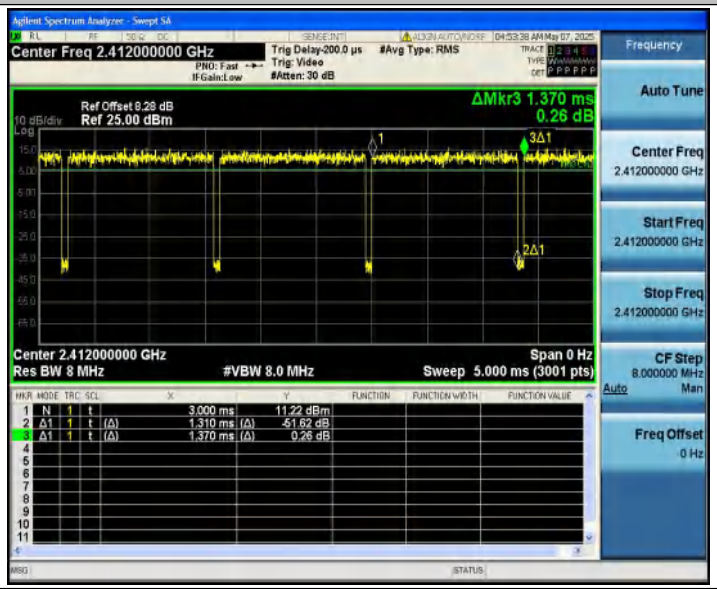

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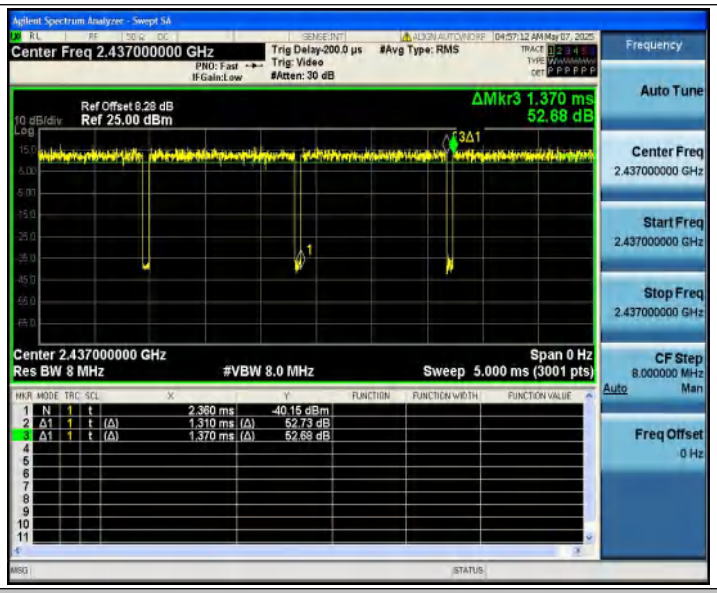

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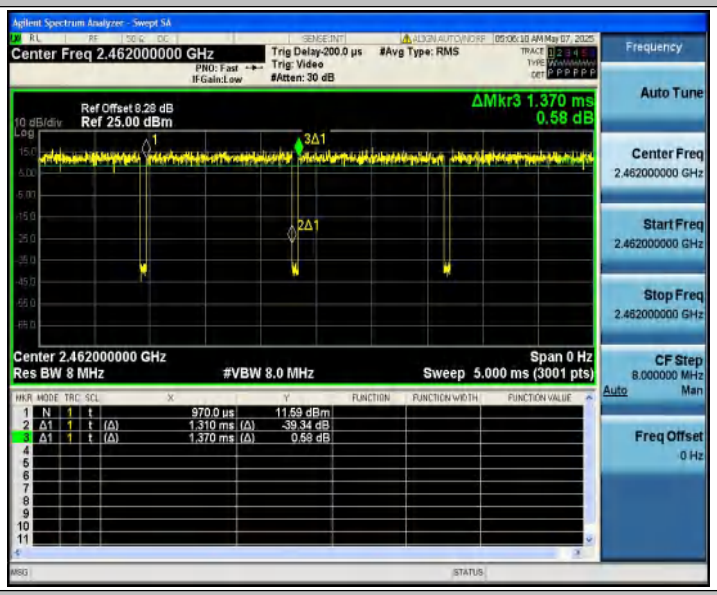

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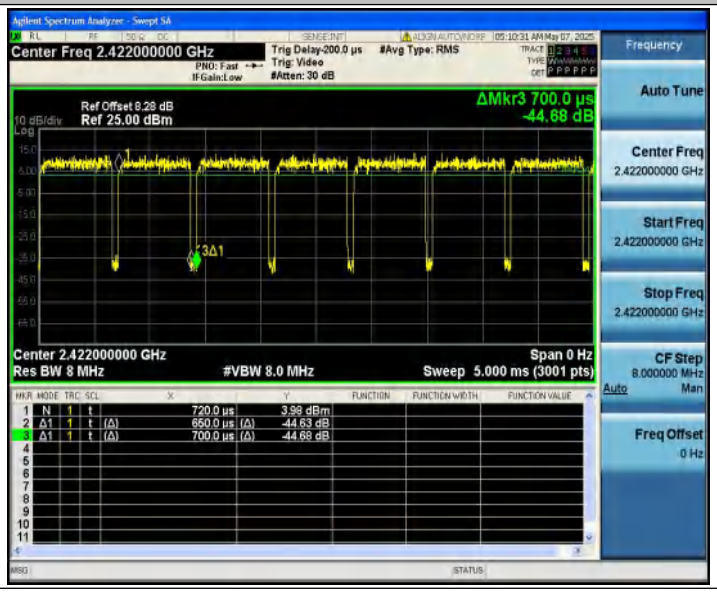

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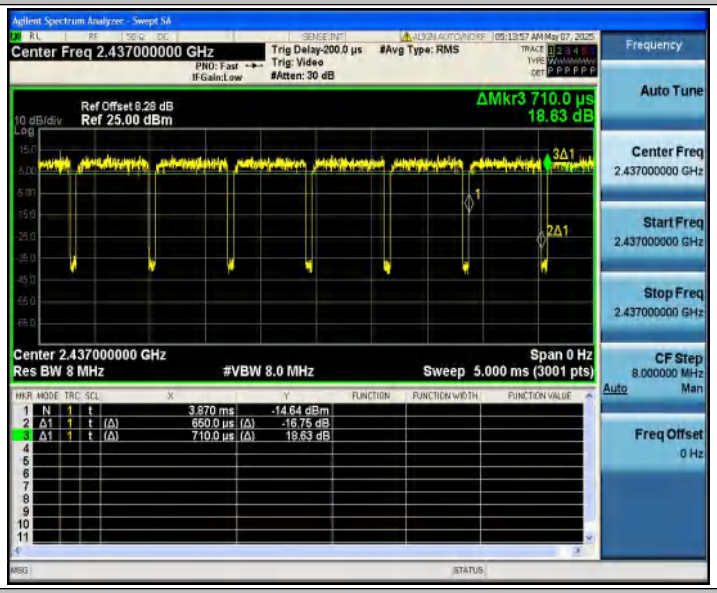
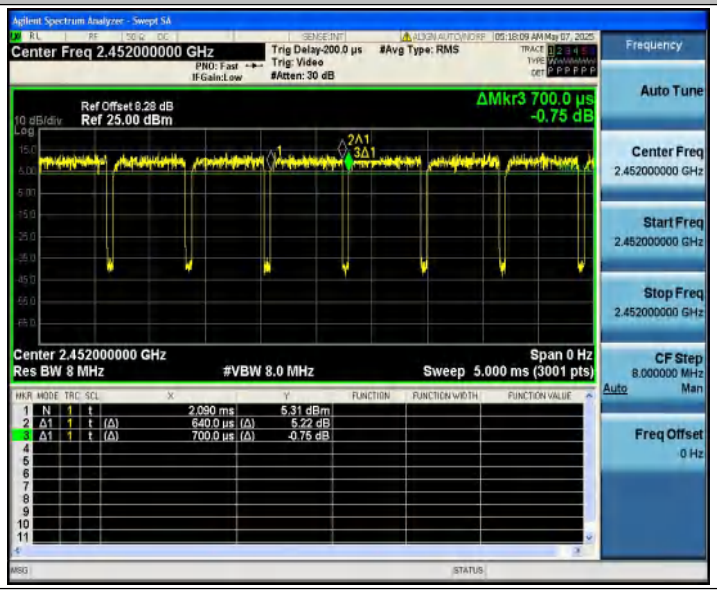
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