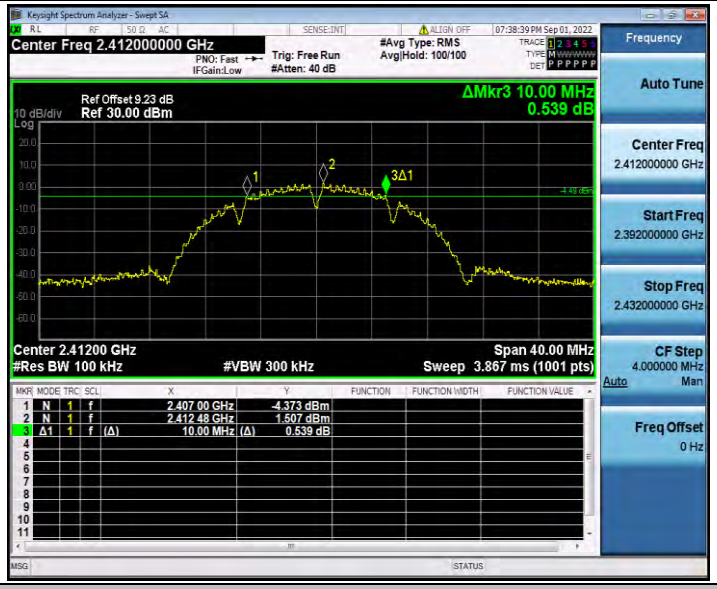
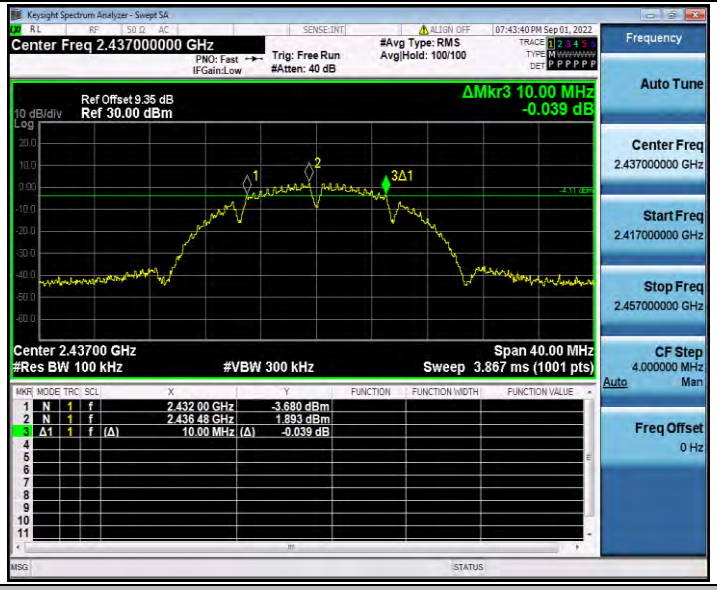
Case No. : GTS20220830003-1-3	
Ambient Condition: 25 ℃, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.9.1	**Test Engineer:** Jenny zeng

Appendix C.1: DTS Bandwidth

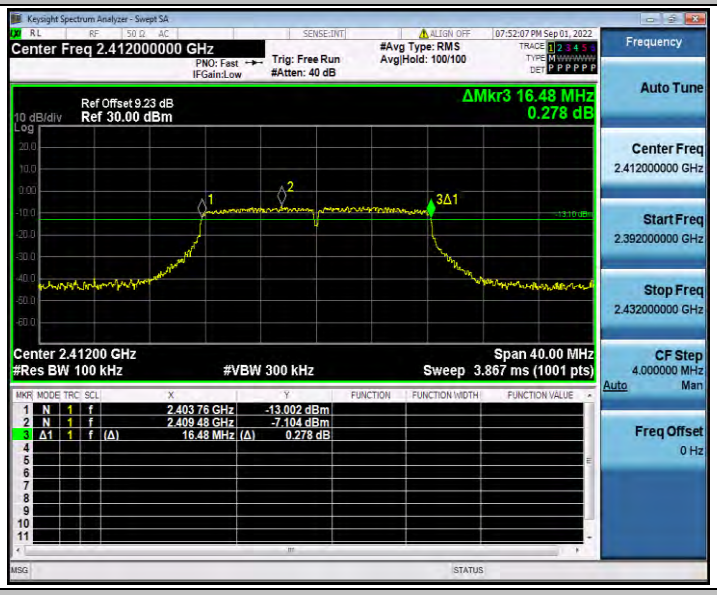
Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.000	2407.000	2417.000	0.5	PASS
		2437	10.000	2432.000	2442.000	0.5	PASS
		2462	9.560	2456.960	2466.520	0.5	PASS
11G	Ant2	2412	16.480	2403.760	2420.240	0.5	PASS
		2437	16.440	2428.800	2445.240	0.5	PASS
		2462	16.440	2453.760	2470.200	0.5	PASS
11N20SISO	Ant2	2412	17.640	2403.160	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant2	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	36.320	2418.840	2455.160	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS

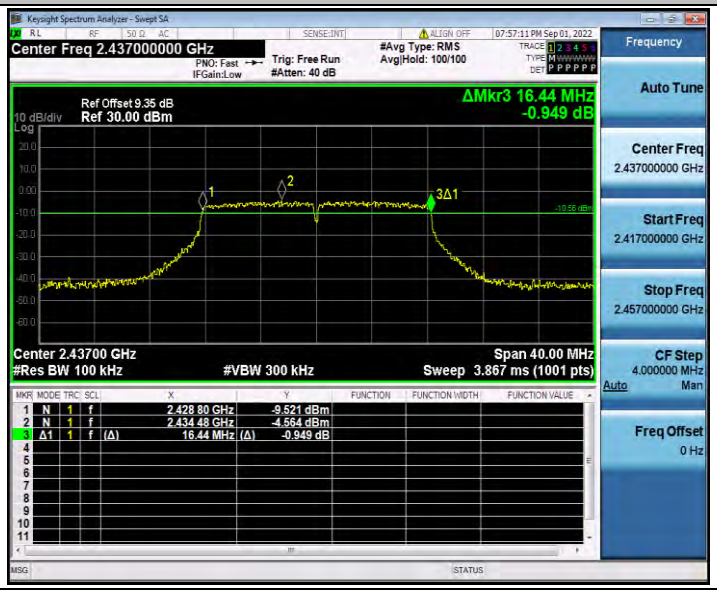
Test Graphs

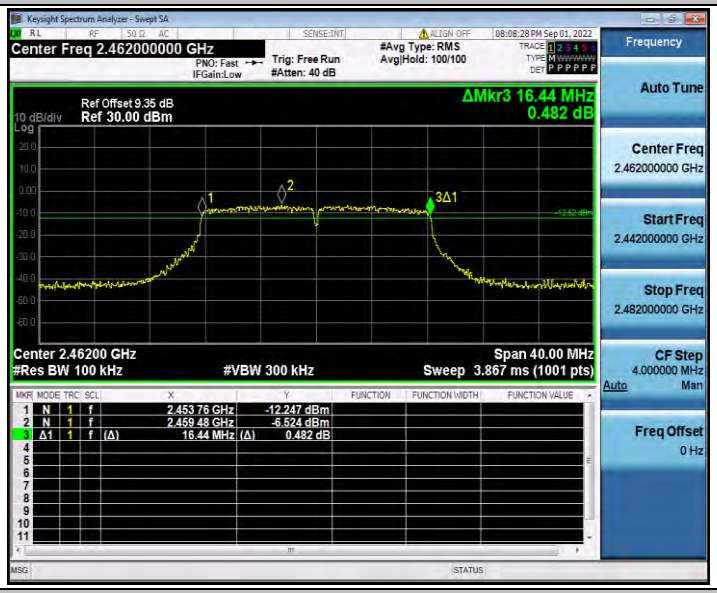
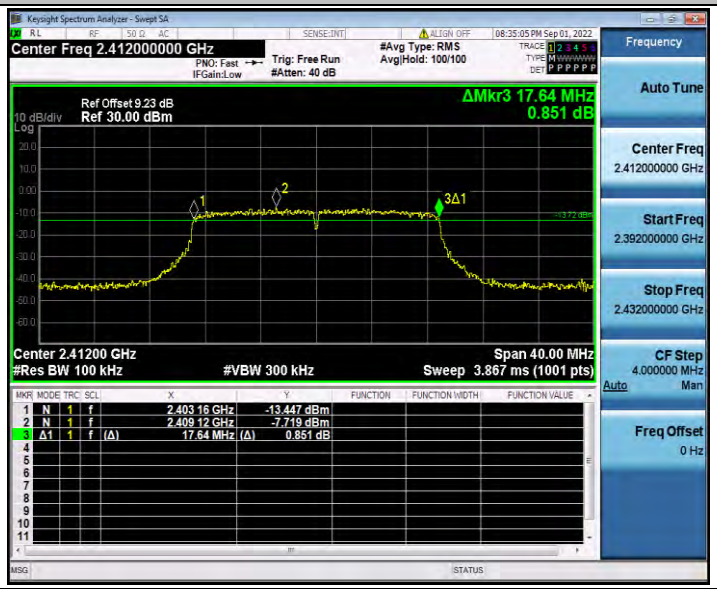
11B_Ant2_2412

11B_Ant2_2437

11B_Ant2_2462

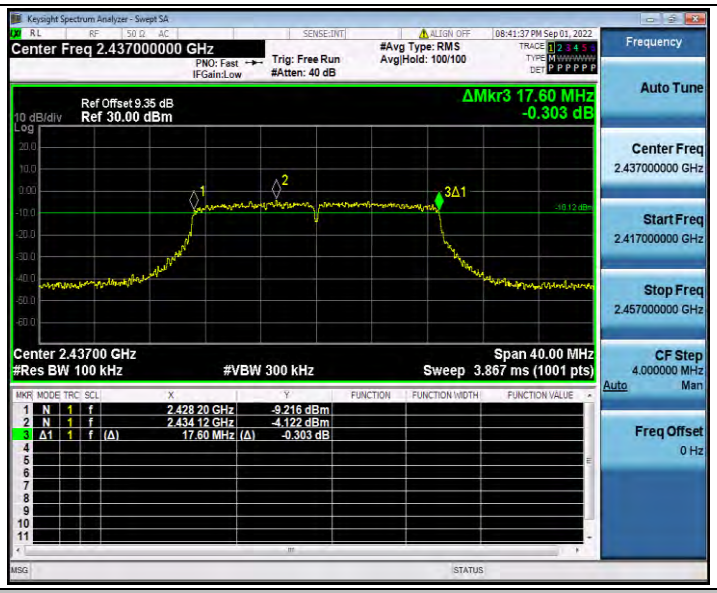
11G_Ant2_2412



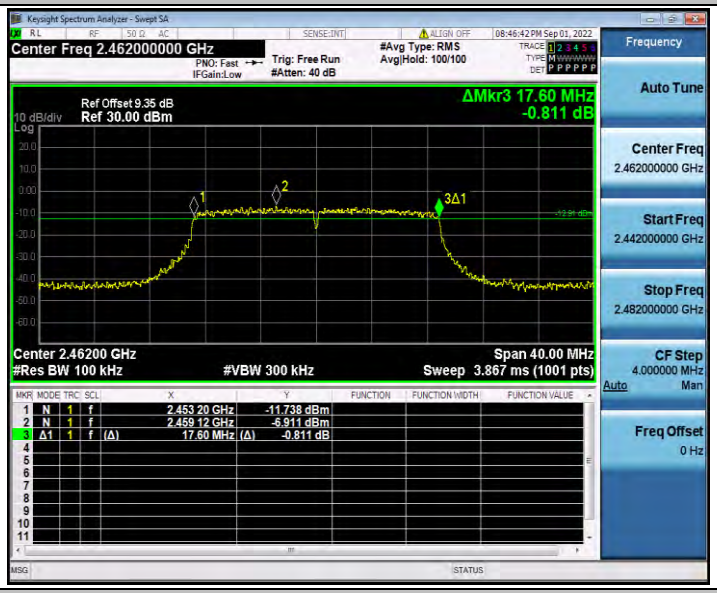
11G_Ant2_2437



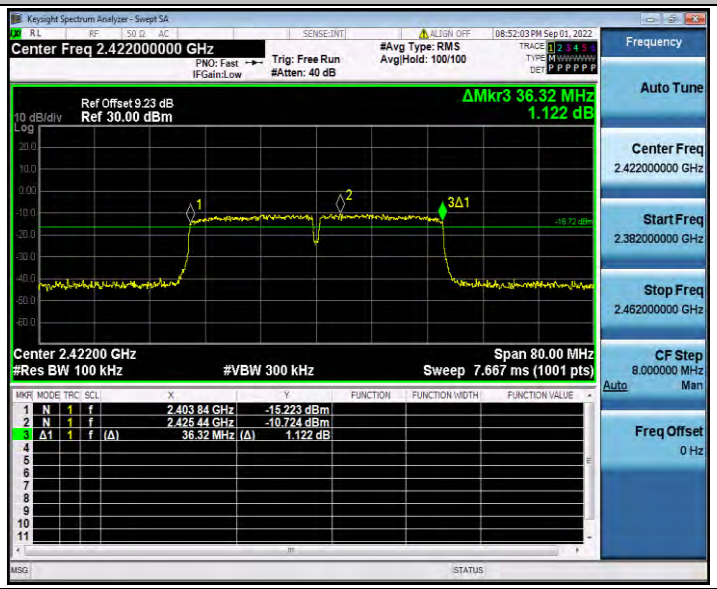
11G_Ant2_2462

11N20SISO_Ant2_2412

11N20SISO_Ant2_2437

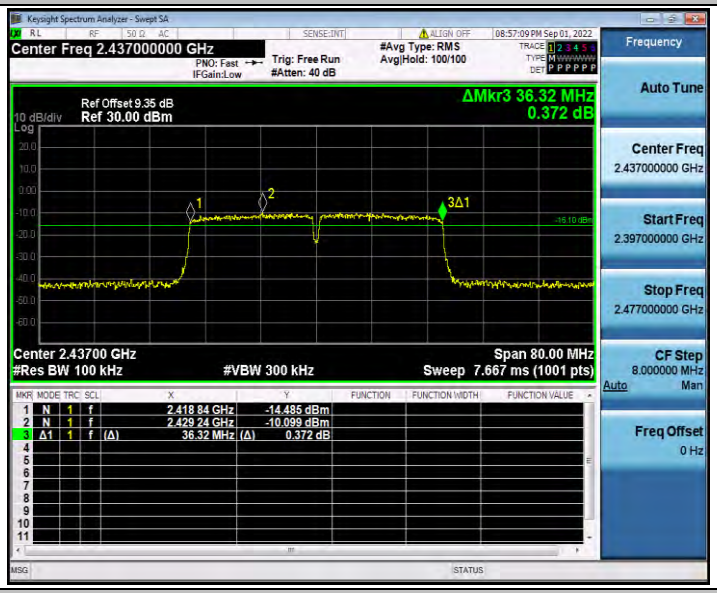
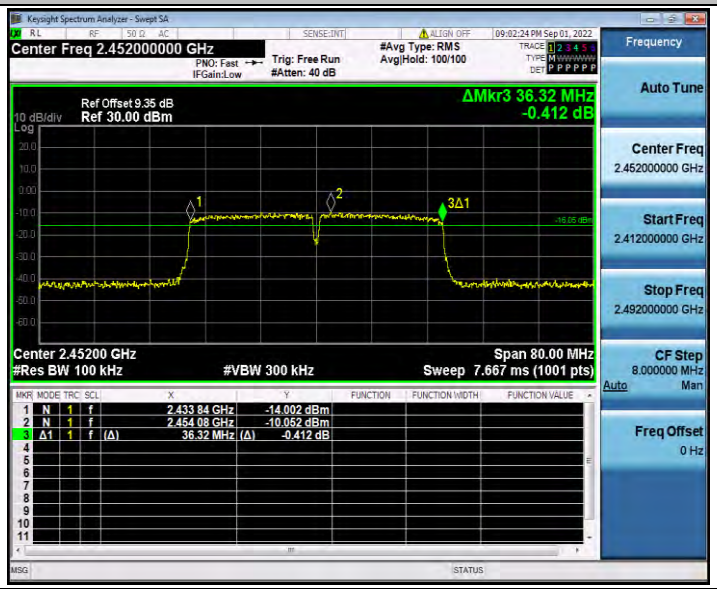


11N20SISO_Ant2_2462



11N40SISO_Ant2_2422



11N40SISO_Ant2_2437

11N40SISO_Ant2_2452


Appendix C.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	14.987	2404.535	2419.522	---	---
		2437	14.969	2429.538	2444.507	---	---
		2462	14.949	2454.484	2469.433	---	---
11G	Ant2	2412	16.700	2403.624	2420.324	---	---
		2437	16.861	2428.489	2445.350	---	---
		2462	16.796	2453.516	2470.312	---	---
11N20SISO	Ant2	2412	17.864	2403.061	2420.925	---	---
		2437	17.864	2428.064	2445.928	---	---
		2462	17.841	2453.025	2470.866	---	---
11N40SISO	Ant2	2422	36.006	2404.033	2440.039	---	---
		2437	35.997	2419.042	2455.039	---	---
		2452	35.940	2434.025	2469.965	---	---

Test Graphs

11B_Ant2_2412
11B_Ant2_2437
11B_Ant2_2462

11G_Ant2_2412

11G_Ant2_2437

11G_Ant2_2462
11N20SISO_Ant2_2412
11N20SISO_Ant2_2437

11N20SISO_Ant2_2462

11N40SISO_Ant2_2422

11N40SISO_Ant2_2437
11N40SISO_Ant2_2452

Appendix C.3: Maximum conducted output power

Test Result Peak

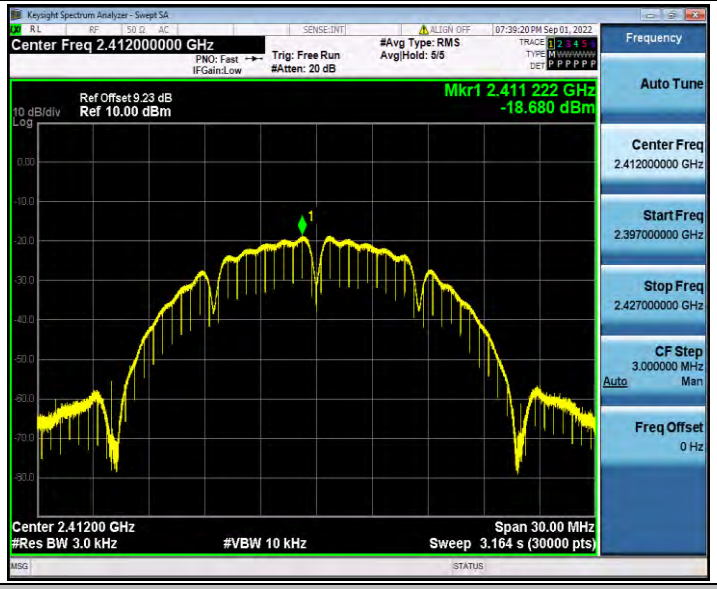
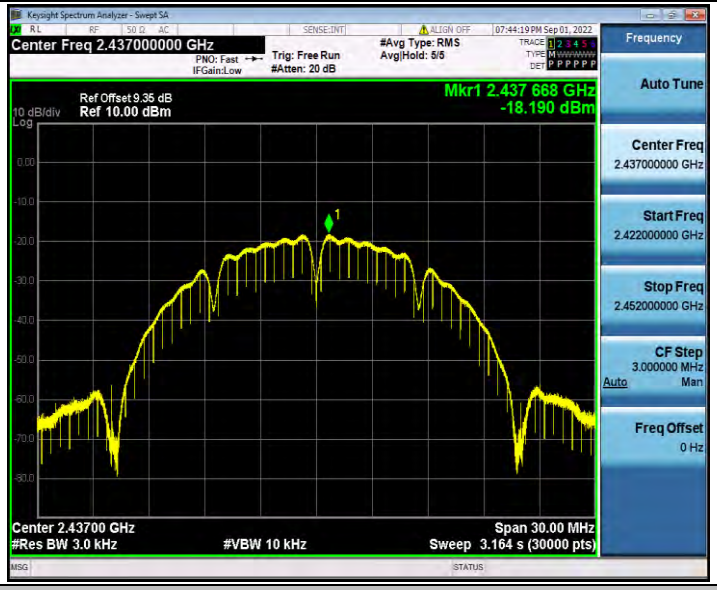
TestMode	Antenna	Frequency[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant2	2412	14.30	≤30.00	PASS
		2437	14.71	≤30.00	PASS
		2462	14.58	≤30.00	PASS
11G	Ant2	2412	14.23	≤30.00	PASS
		2437	16.75	≤30.00	PASS
		2462	14.67	≤30.00	PASS
11N20SISO	Ant2	2412	13.70	≤30.00	PASS
		2437	16.91	≤30.00	PASS
		2462	14.15	≤30.00	PASS
11N40SISO	Ant2	2422	13.89	≤30.00	PASS
		2437	14.27	≤30.00	PASS
		2452	14.28	≤30.00	PASS

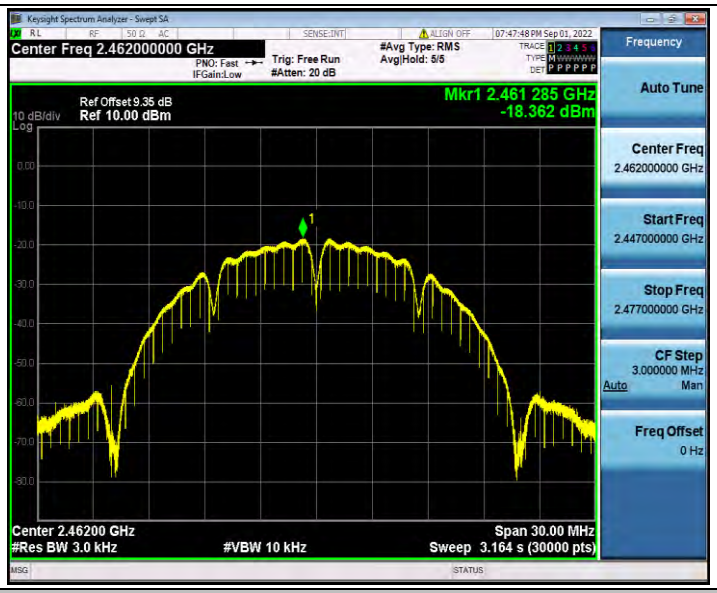
Appendix C.4: Maximum power spectral density

Test Result

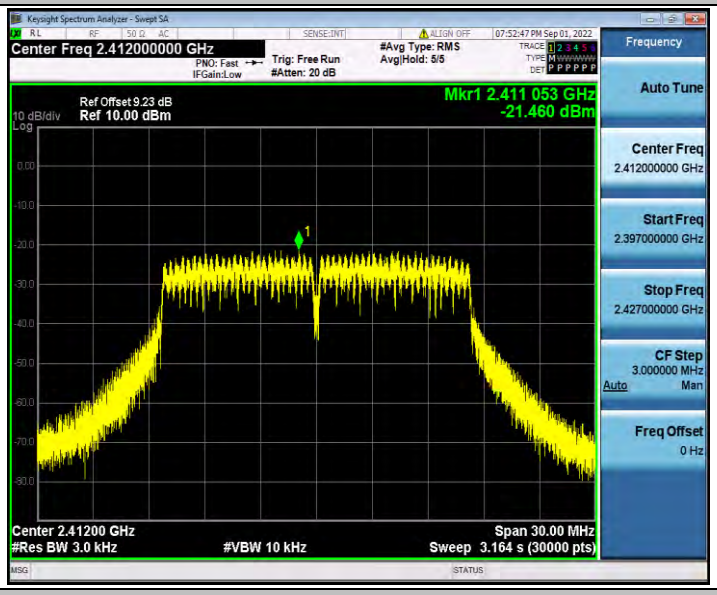
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant2	2412	-18.68	≤8.00	PASS
		2437	-18.19	≤8.00	PASS
		2462	-18.36	≤8.00	PASS
11G	Ant2	2412	-21.46	≤8.00	PASS
		2437	-18.99	≤8.00	PASS
		2462	-20.94	≤8.00	PASS
11N20SISO	Ant2	2412	-21.94	≤8.00	PASS
		2437	-18.81	≤8.00	PASS
		2462	-21.26	≤8.00	PASS
11N40SISO	Ant2	2422	-22.24	≤8.00	PASS
		2437	-20.71	≤8.00	PASS
		2452	-21.16	≤8.00	PASS

Test Graphs

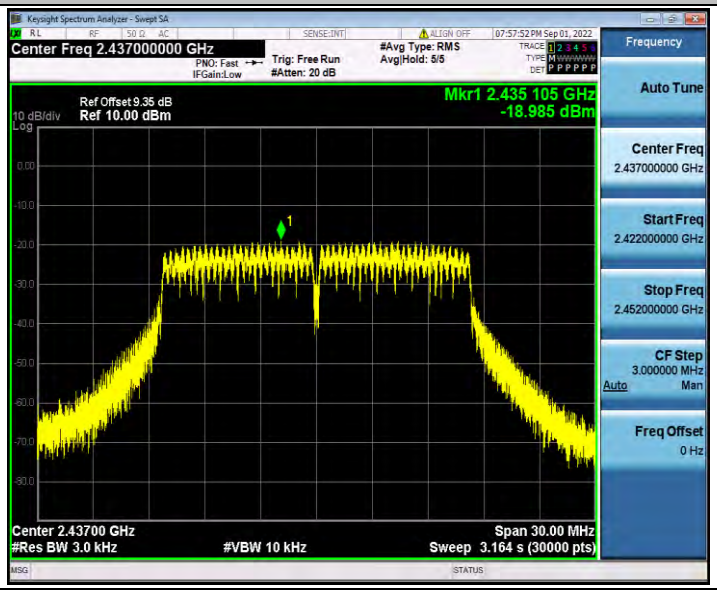
11B_Ant2_2412

11B_Ant2_2437

11B_Ant2_2462

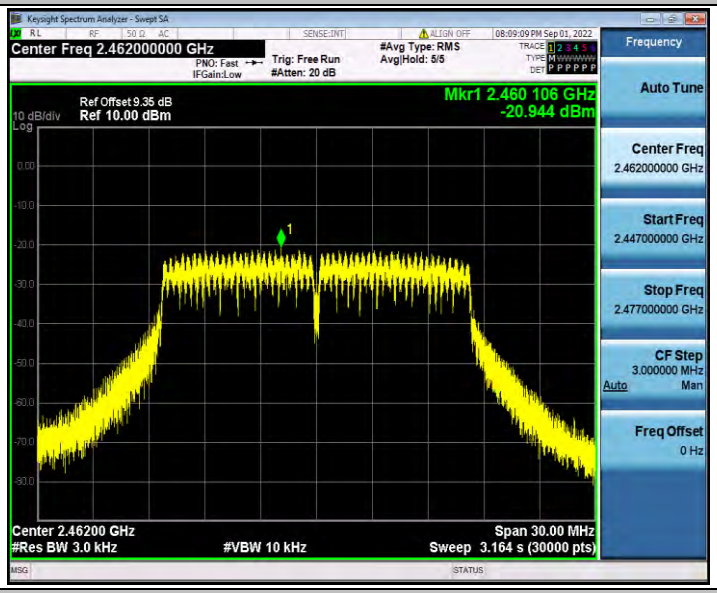
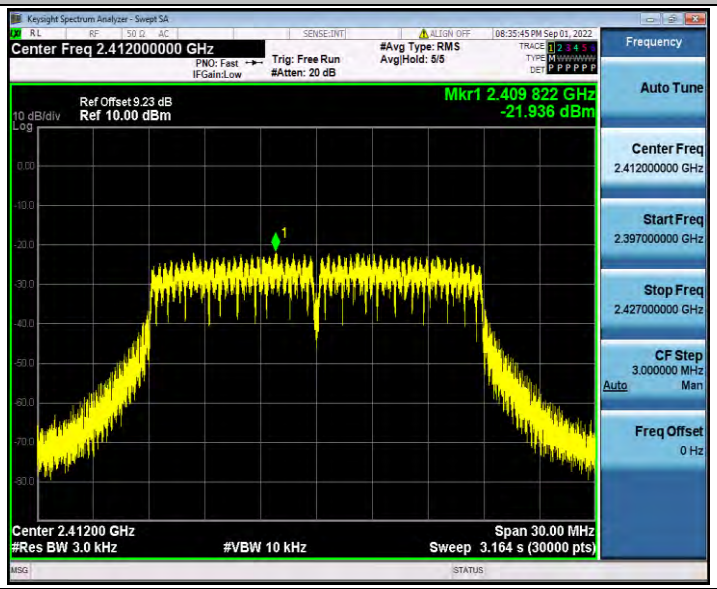


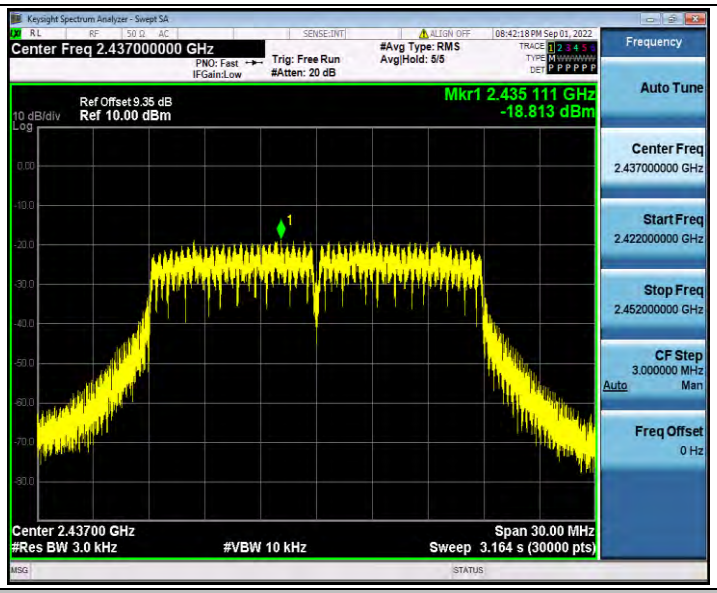
11G_Ant2_2412



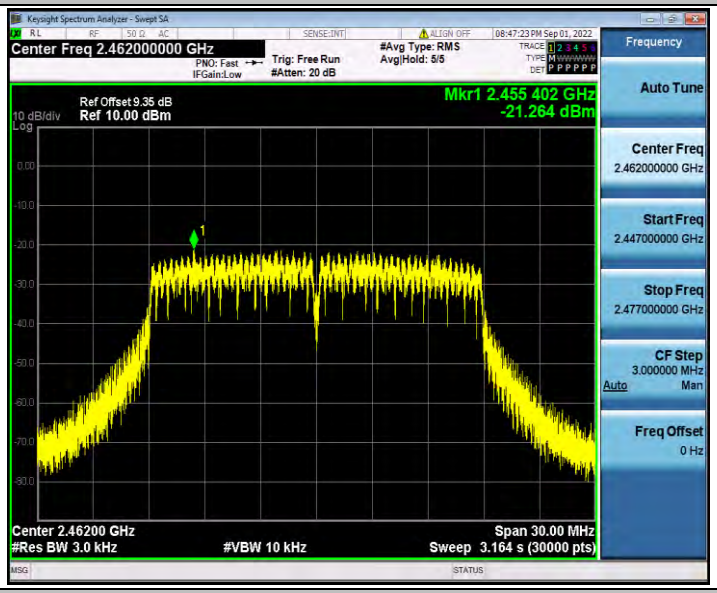
11G_Ant2_2437



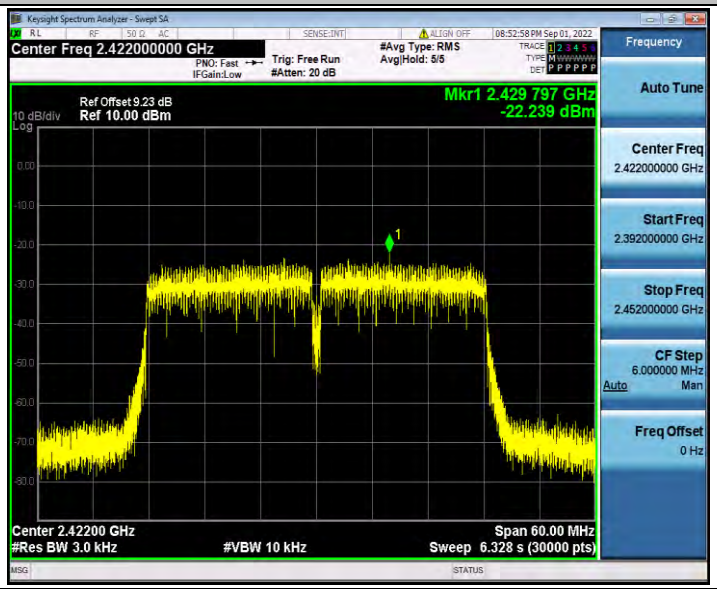
11G_Ant2_2462

11N20SISO_Ant2_2412

11N20SISO_Ant2_2437

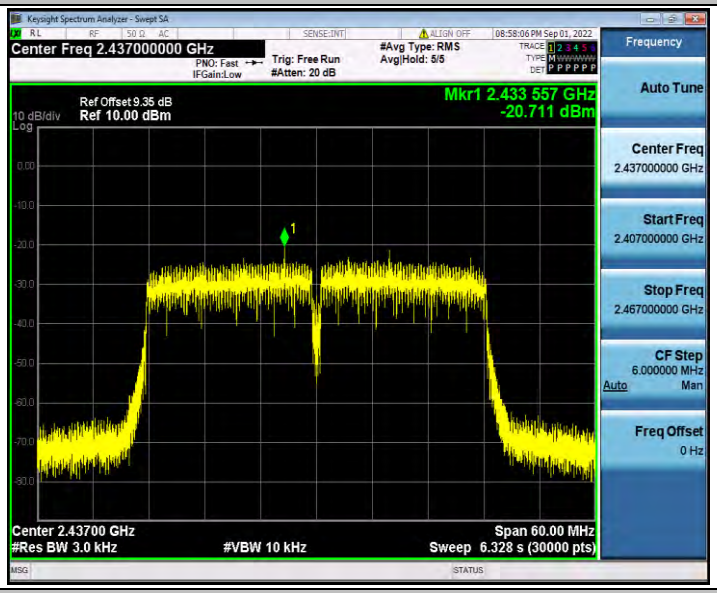
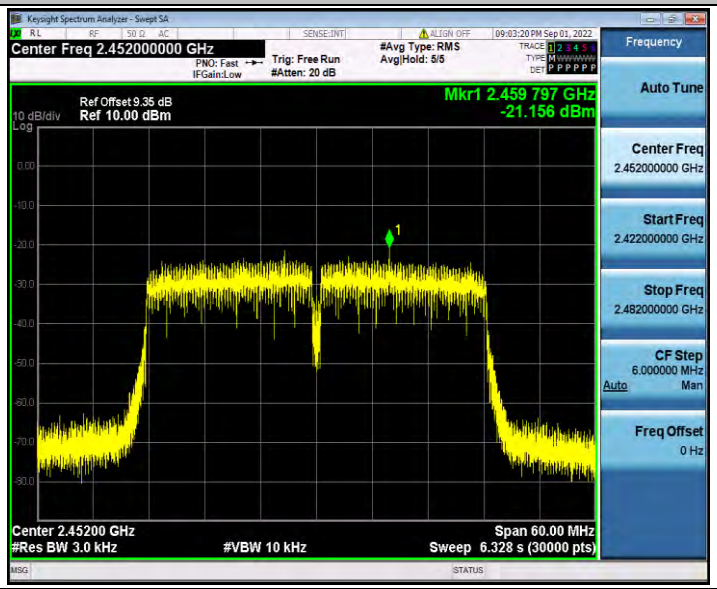


11N20SISO_Ant2_2462



11N40SISO_Ant2_2422



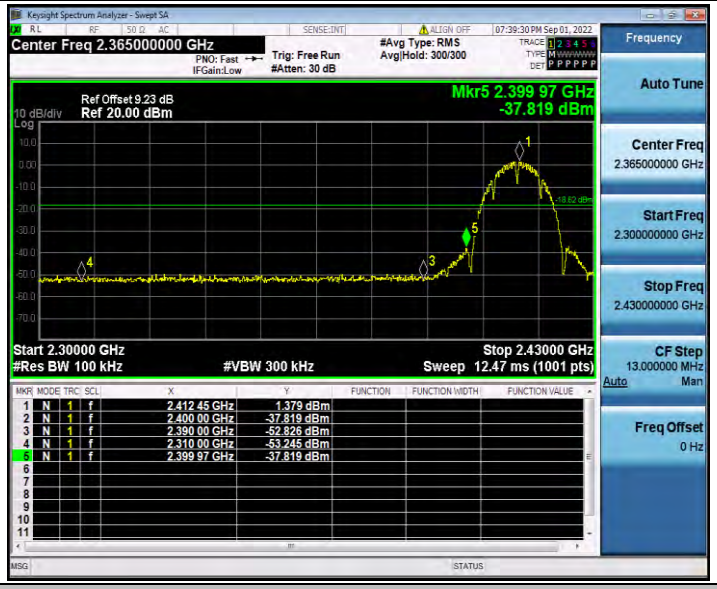
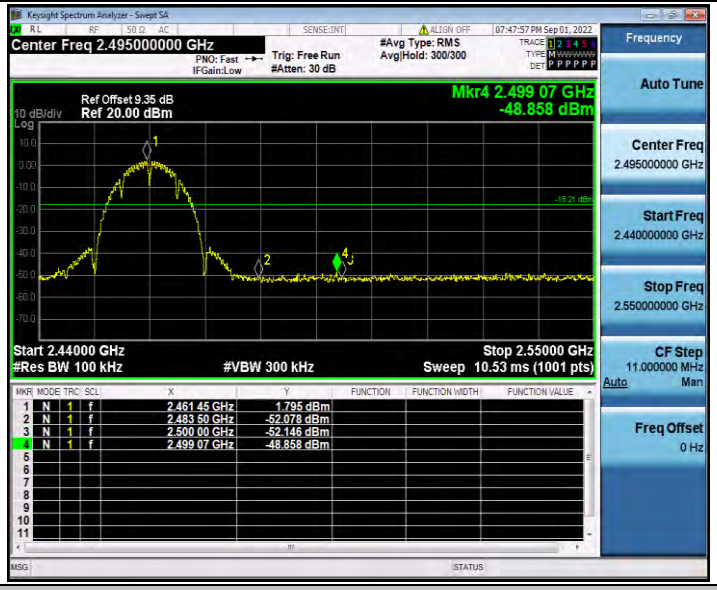
11N40SISO_Ant2_2437

11N40SISO_Ant2_2452


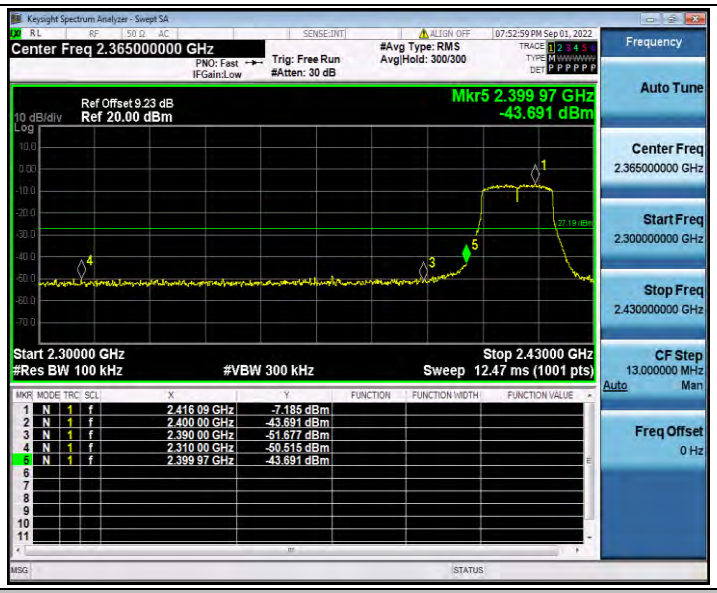
Appendix C.5: Band edge measurements

Test Result

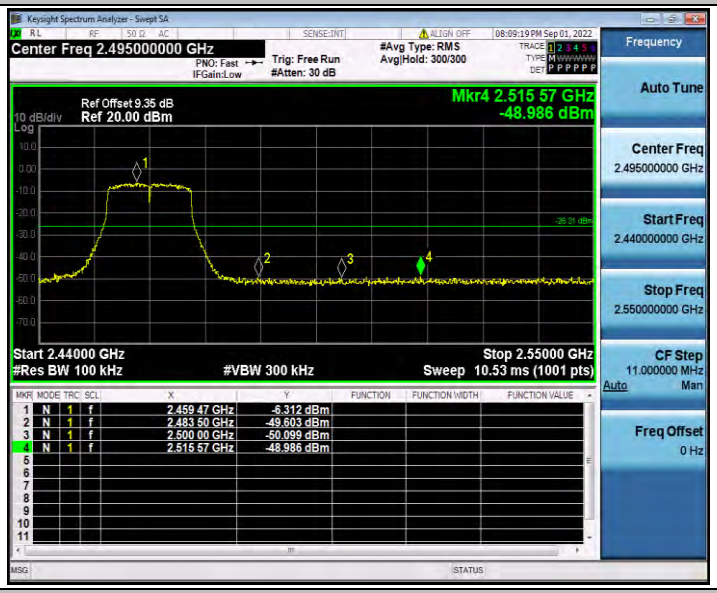
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant2	Low	2412	1.38	-37.82	≤-18.62	PASS
		High	2462	1.80	-48.86	≤-18.21	PASS
11G	Ant2	Low	2412	-7.19	-43.69	≤-27.19	PASS
		High	2462	-6.31	-48.99	≤-26.31	PASS
11N20SISO	Ant2	Low	2412	-7.42	-42.68	≤-27.42	PASS
		High	2462	-6.93	-48.7	≤-26.93	PASS
11N40SISO	Ant2	Low	2422	-10.49	-45.75	≤-30.49	PASS
		High	2452	-9.86	-48.59	≤-29.86	PASS

Test Graphs

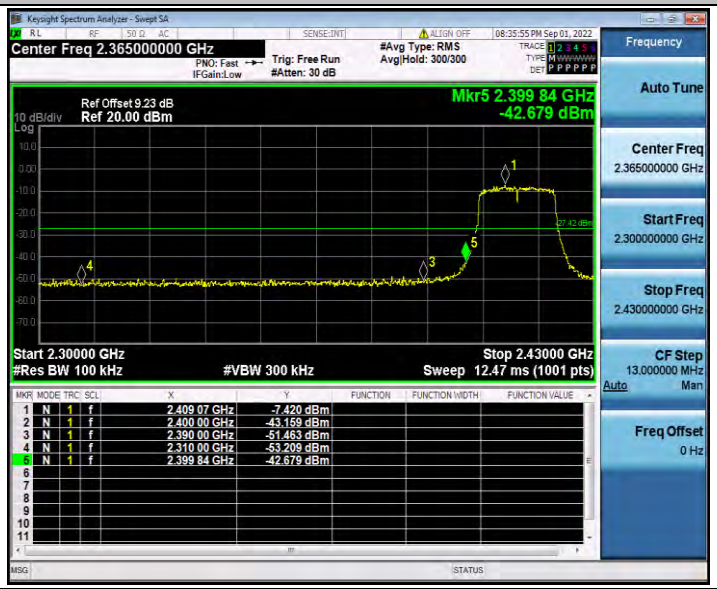
11B_Ant2_Low_2412

11B_Ant2_High_2462

11G_Ant2_Low_2412

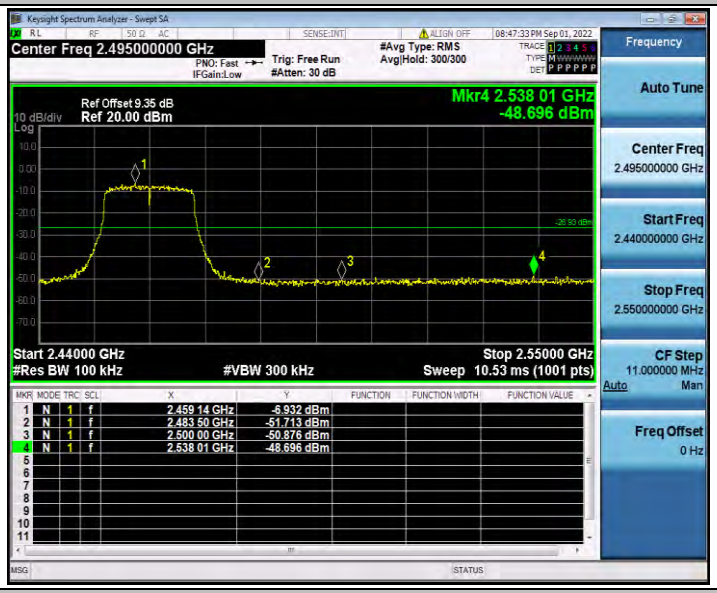
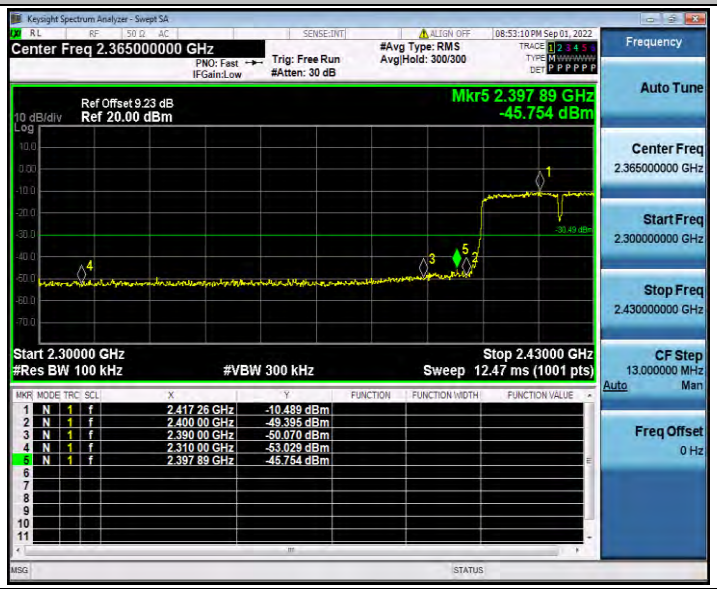


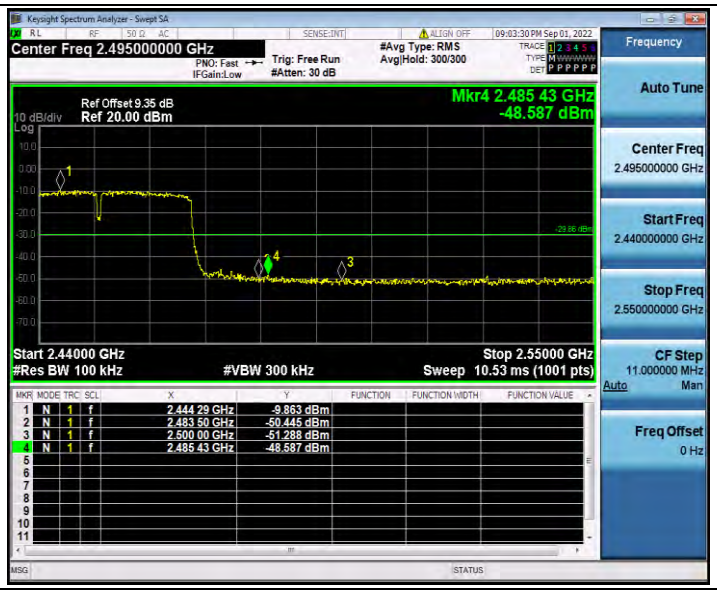
11G_Ant2_High_2462



11N20SISO_Ant2_Low_2412



11N20SISO_Ant2_High_2462

11N40SISO_Ant2_Low_2422

11N40SISO_Ant2_High_2452

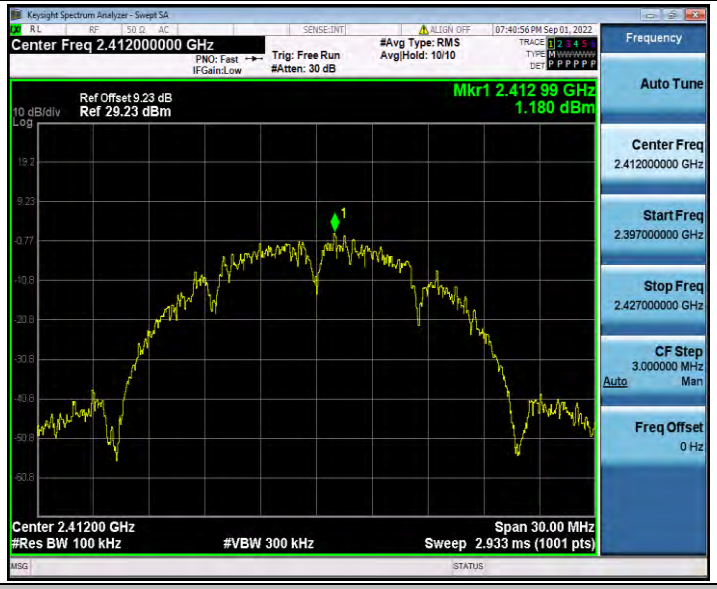
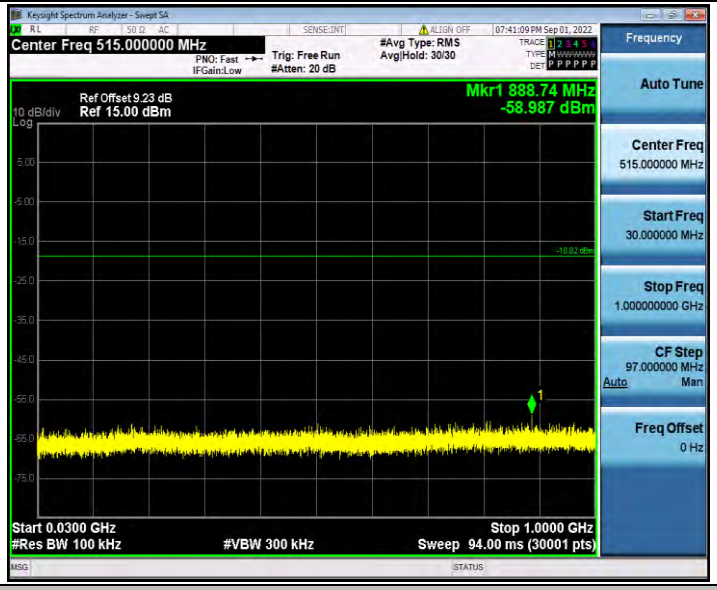

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.495000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 300/300
09:03:30 PM Sep 01, 2022
Ref Offset 9.35 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.485 43 GHz
-48.587 dBm
Start 2.44000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.55000 GHz
Sweep 10.53 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.444 29 GHz -9.863 dBm
2 N 1 f 2.483 50 GHz -50.445 dBm
3 N 1 f 2.500 00 GHz -51.288 dBm
4 N 1 f 2.485 43 GHz -48.587 dBm
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
MSG
STATUS

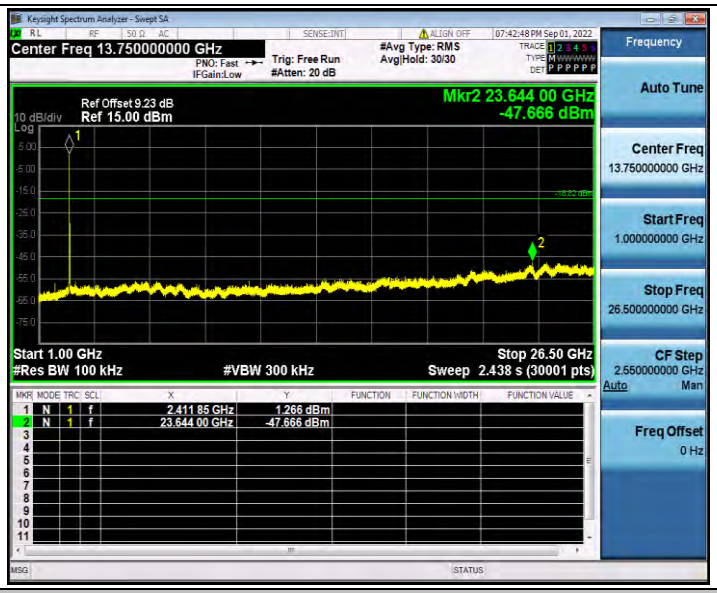
Appendix C.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant2	2412	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-58.99	≤-18.82	PASS
			1000~26500	1.18	-47.67	≤-18.82	PASS
		2437	Reference	1.10	1.10	---	PASS
			30~1000	1.10	-60.43	≤-18.9	PASS
			1000~26500	1.10	-47.67	≤-18.9	PASS
		2462	Reference	1.20	1.20	---	PASS
			30~1000	1.20	-60.03	≤-18.8	PASS
			1000~26500	1.20	-47.78	≤-18.8	PASS
11G	Ant2	2412	Reference	-7.39	-7.39	---	PASS
			30~1000	-7.39	-60.02	≤-27.39	PASS
			1000~26500	-7.39	-47.61	≤-27.39	PASS
		2437	Reference	-5.09	-5.09	---	PASS
			30~1000	-5.09	-59.95	≤-25.09	PASS
			1000~26500	-5.09	-46.86	≤-25.09	PASS
		2462	Reference	-7.14	-7.14	---	PASS
			30~1000	-7.14	-60.11	≤-27.14	PASS
			1000~26500	-7.14	-47.79	≤-27.14	PASS
11N20SISO	Ant2	2412	Reference	-8.50	-8.50	---	PASS
			30~1000	-8.50	-60.41	≤-28.5	PASS
			1000~26500	-8.50	-47.59	≤-28.5	PASS
		2437	Reference	-5.20	-5.20	---	PASS
			30~1000	-5.20	-60.3	≤-25.2	PASS
			1000~26500	-5.20	-46.78	≤-25.2	PASS
		2462	Reference	-8.00	-8.00	---	PASS
			30~1000	-8.00	-60.54	≤-28	PASS
			1000~26500	-8.00	-46.79	≤-28	PASS
11N40SISO	Ant2	2422	Reference	-11.04	-11.04	---	PASS
			30~1000	-11.04	-60.36	≤-31.04	PASS
			1000~26500	-11.04	-47.61	≤-31.04	PASS
		2437	Reference	-10.45	-10.45	---	PASS
			30~1000	-10.45	-60.5	≤-30.45	PASS
			1000~26500	-10.45	-47.43	≤-30.45	PASS
		2452	Reference	-10.28	-10.28	---	PASS
			30~1000	-10.28	-60.33	≤-30.28	PASS
			1000~26500	-10.28	-46.71	≤-30.28	PASS

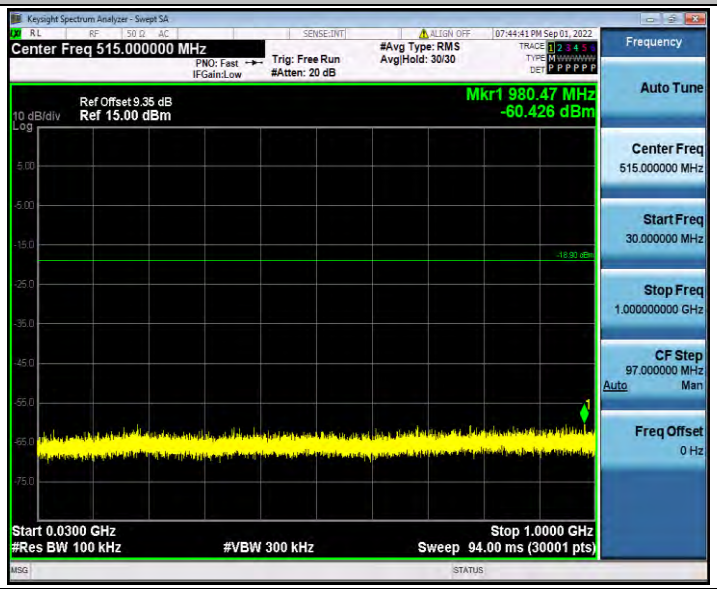
Test Graphs

11B_Ant2_2412_0~Reference

11B_Ant2_2412_30~1000

11B_Ant2_2412_1000~26500



11B_Ant2_2437_0~Reference

11B_Ant2_2437_30~1000



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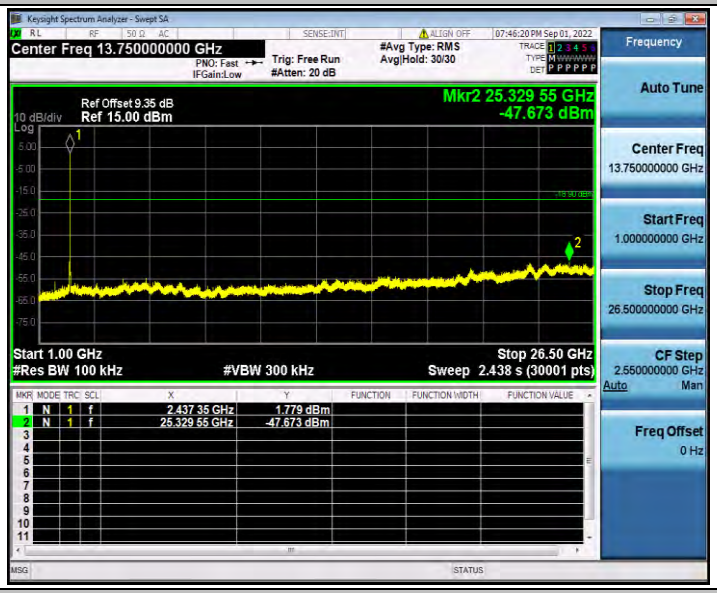
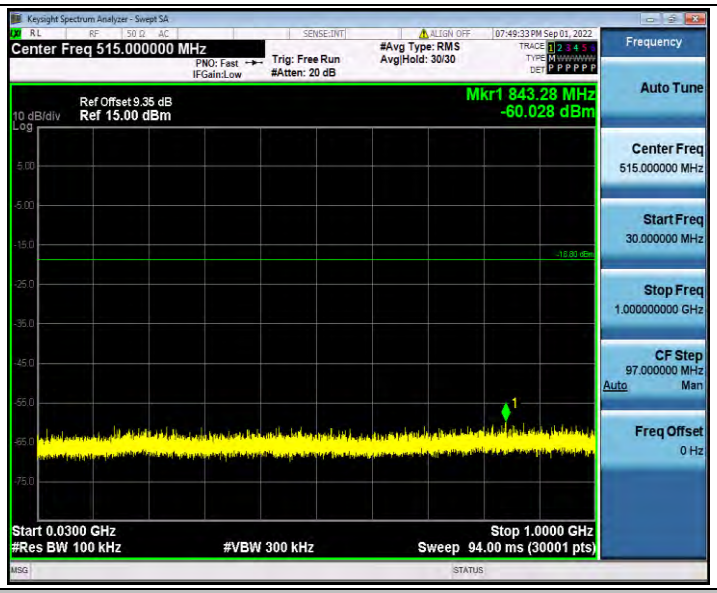

11B_Ant2_2462_0~Reference
11B_Ant2_2462_30~1000



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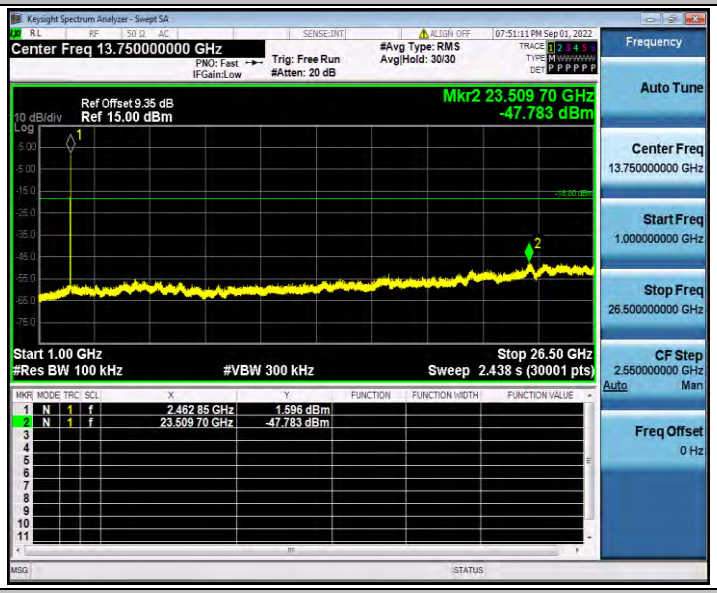

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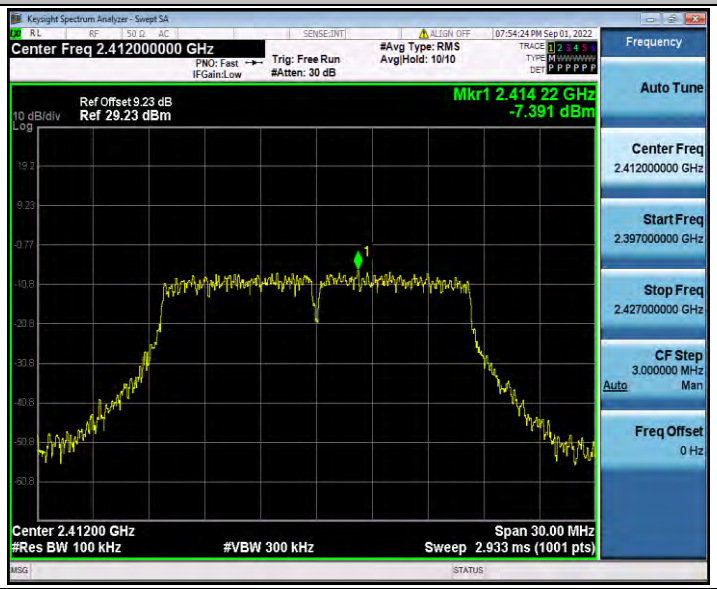

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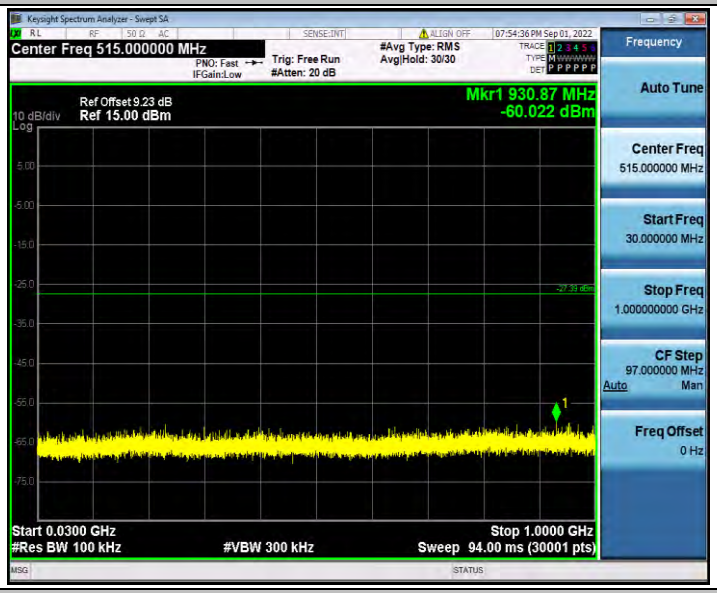
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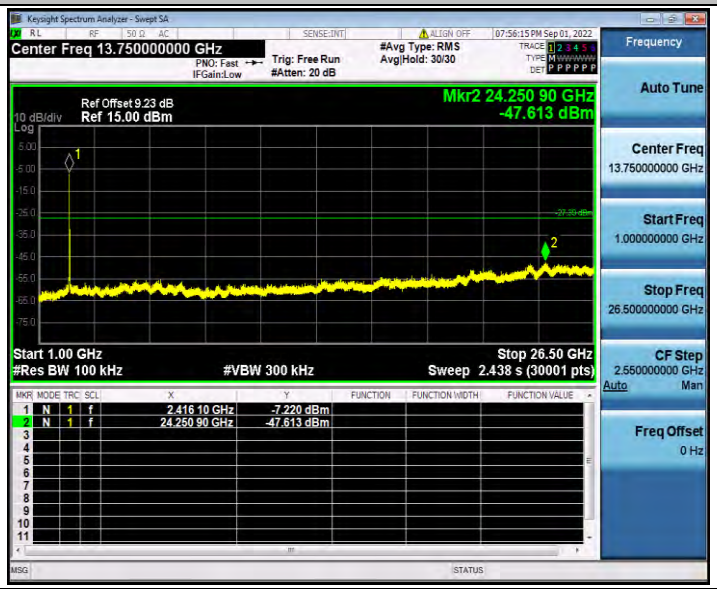
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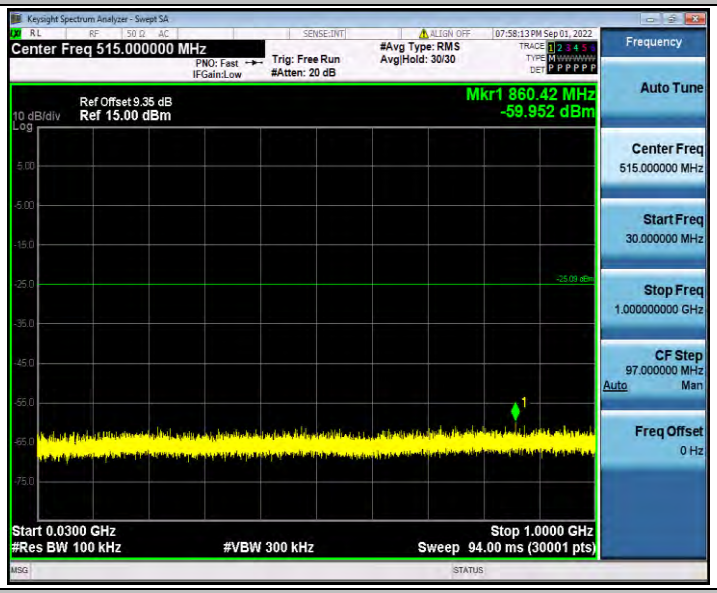

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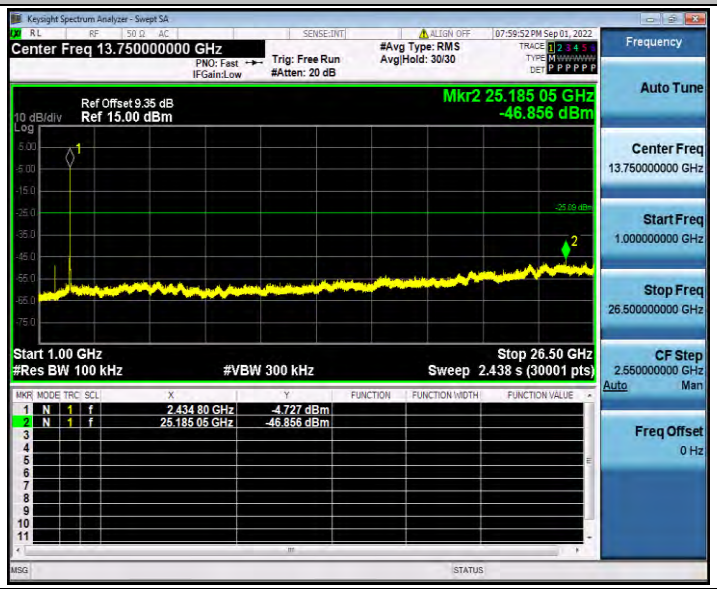

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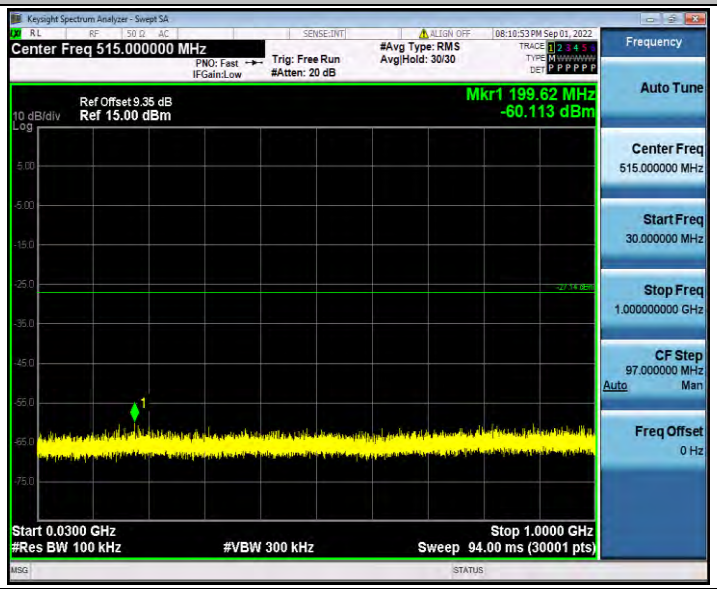
11G_Ant2_2462_30~1000



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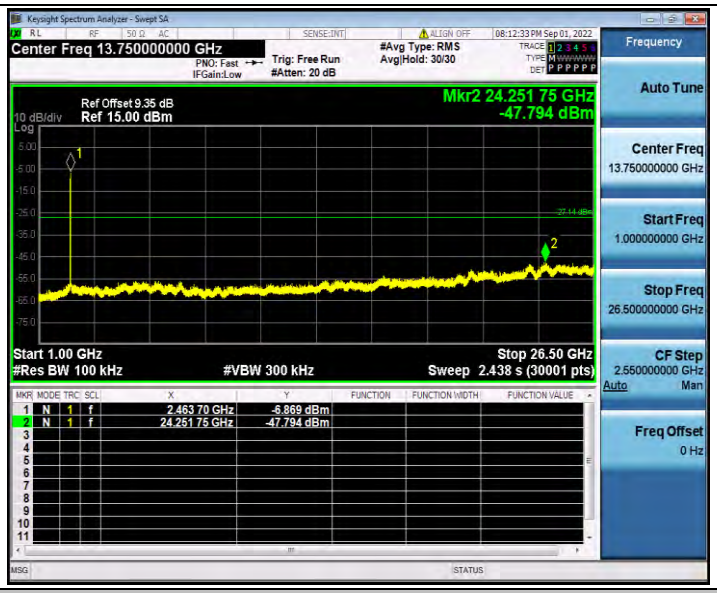

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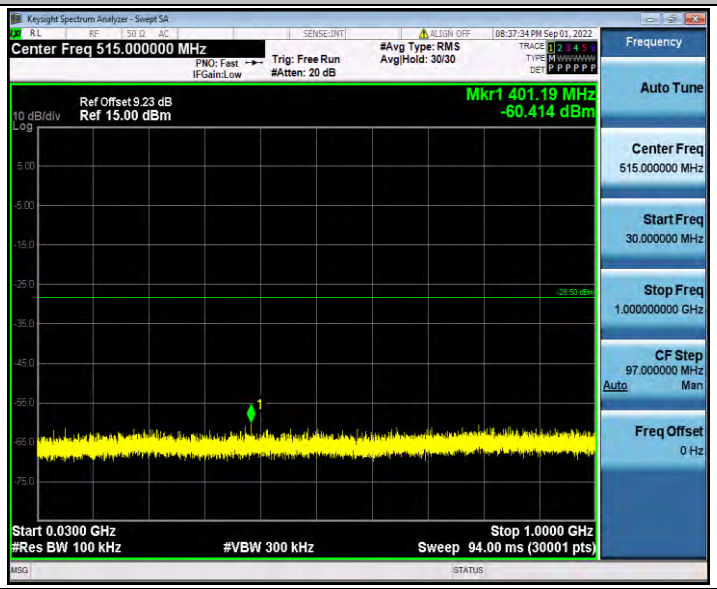

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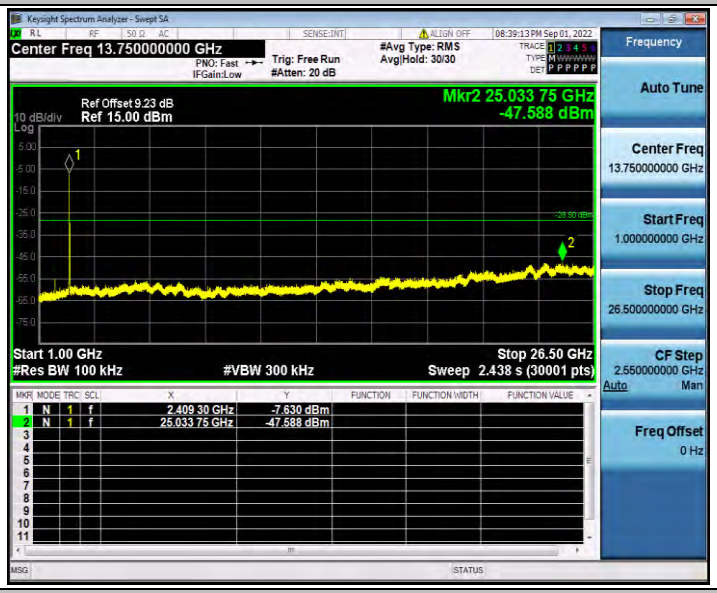
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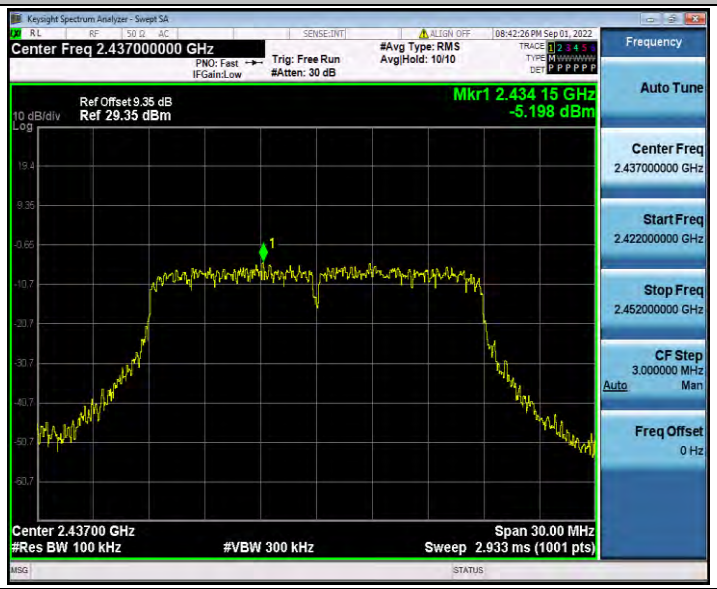
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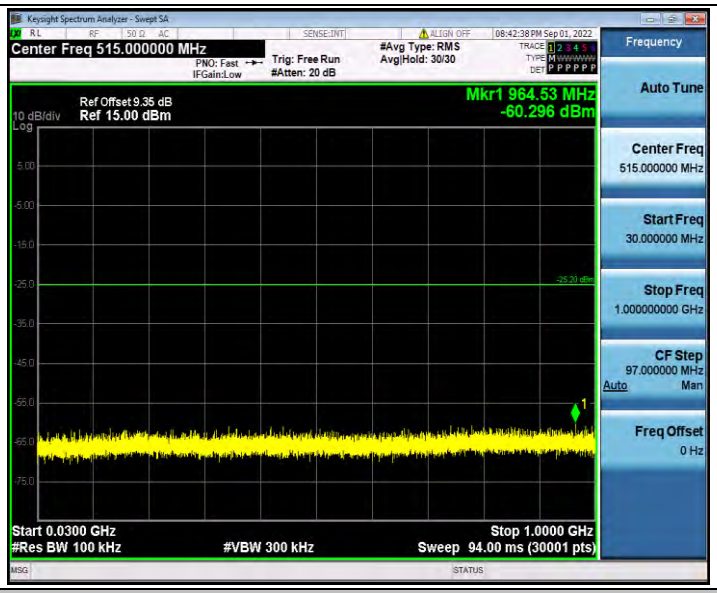

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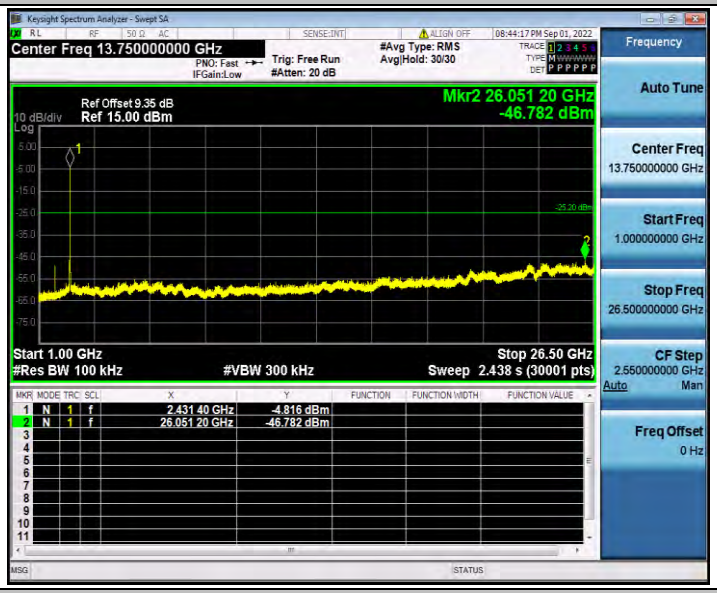

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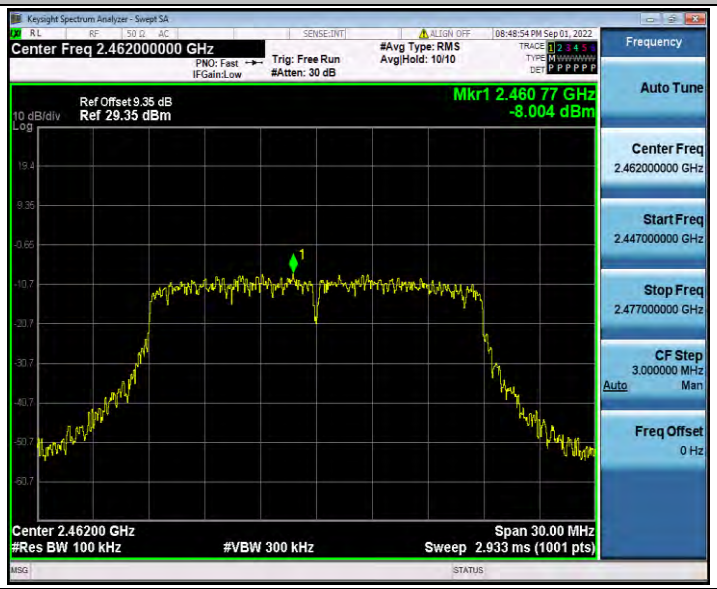

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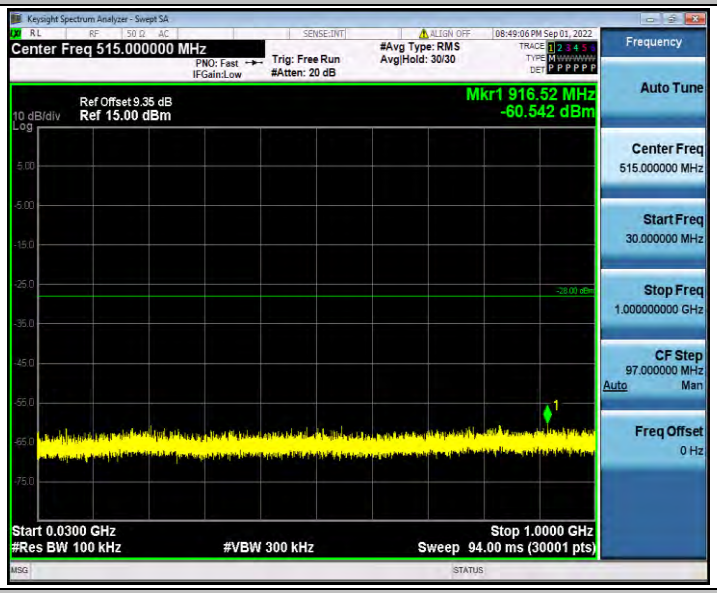
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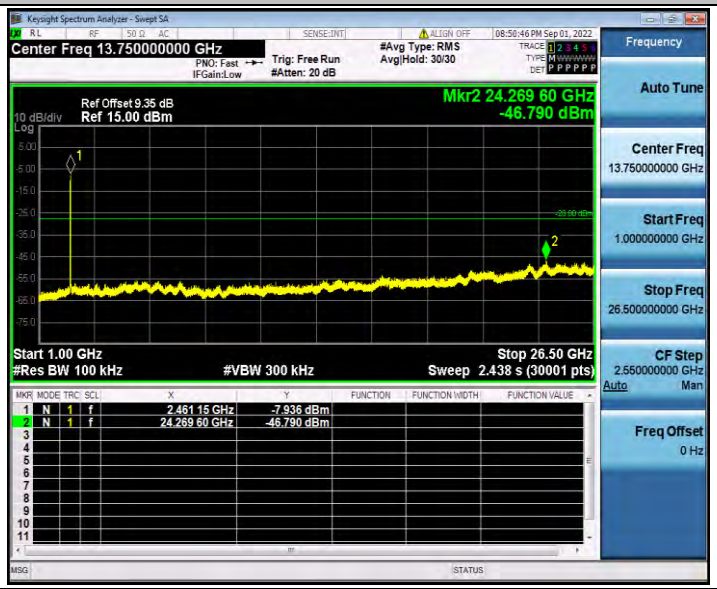
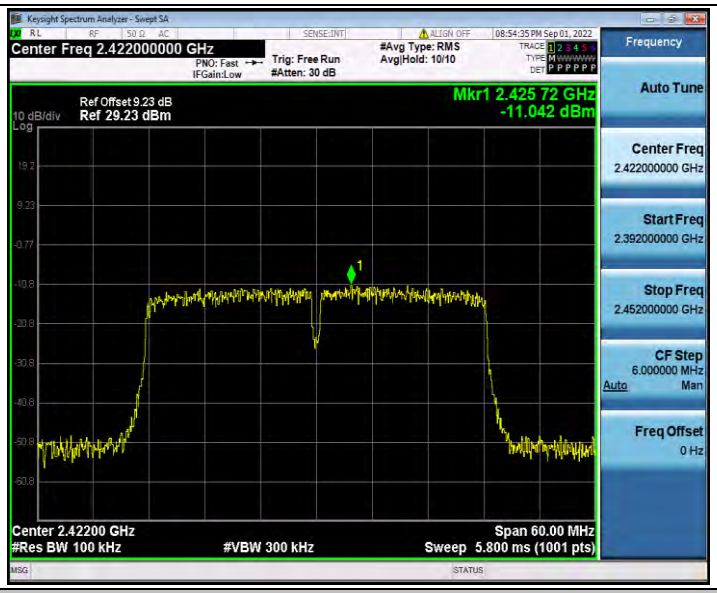
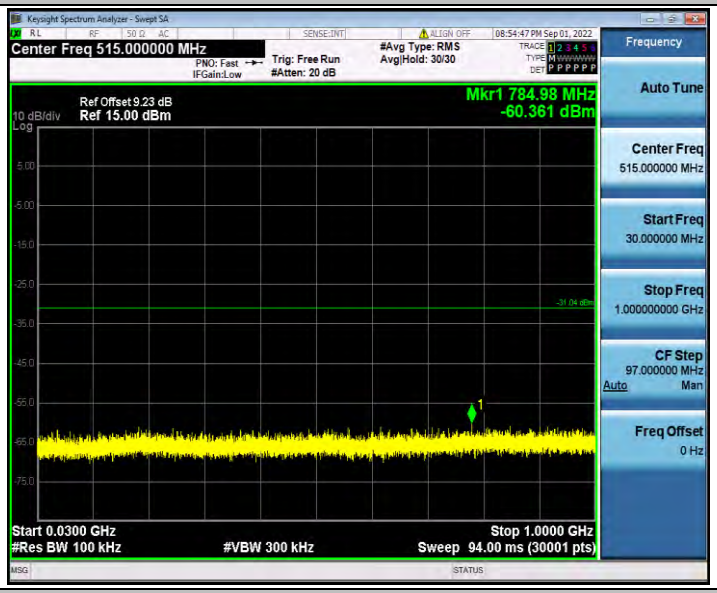
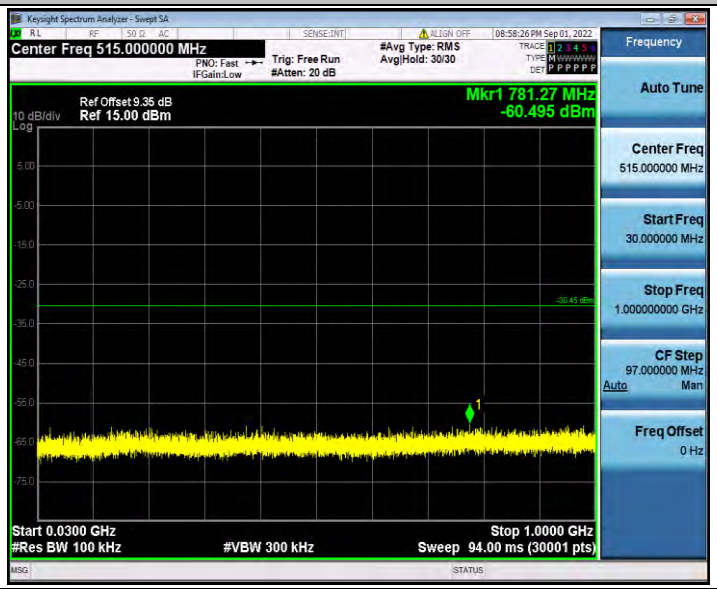

11N40SISO_Ant2_2422_0~Reference



11N40SISO_Ant2_2422_30~1000



11N40SISO_Ant2_2422_1000~26500

11N40SISO_Ant2_2437_0~Reference
11N40SISO_Ant2_2437_30~1000

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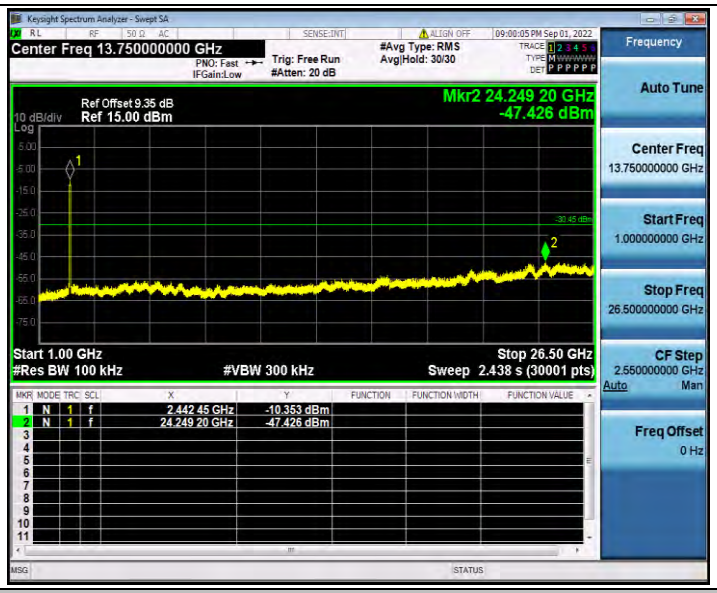

11N40SISO_Ant2_2452_0~Reference

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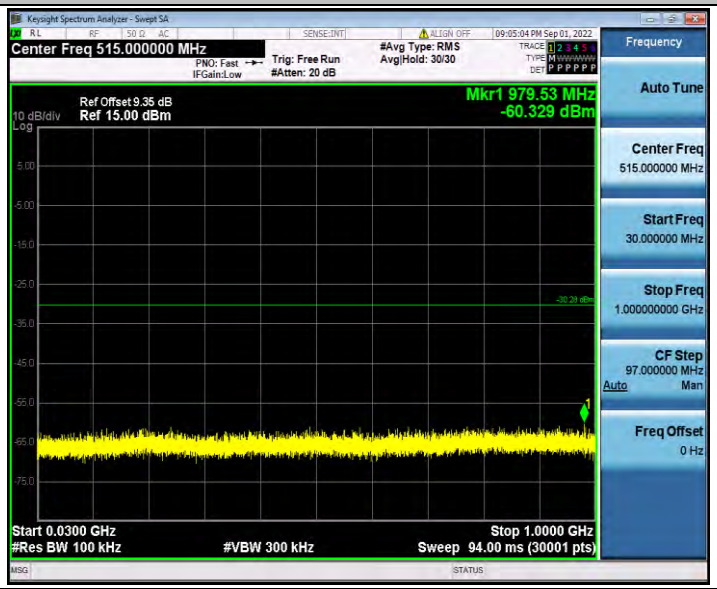
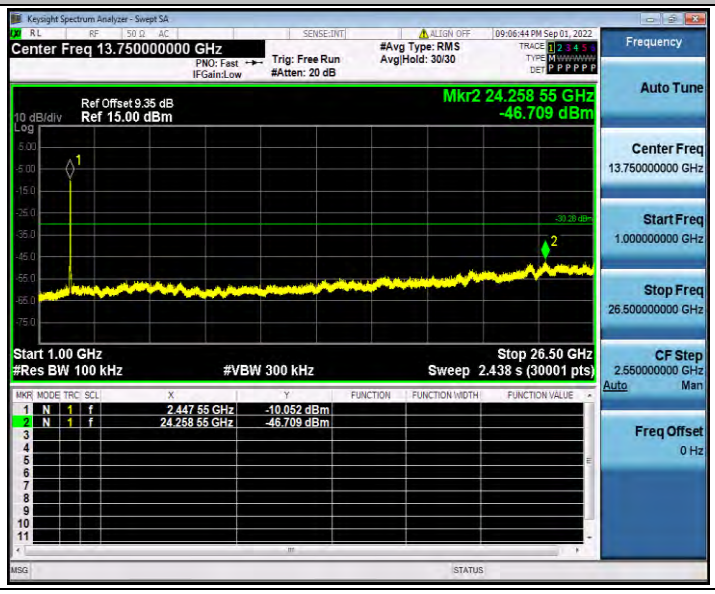
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