Case No. : GTS20220323004-1-3	
Ambient Condition: 23.4 ℃, 52.7 %RH,	
Test Date: 2022-5-19	**Test Engineer:** Jenny Zeng

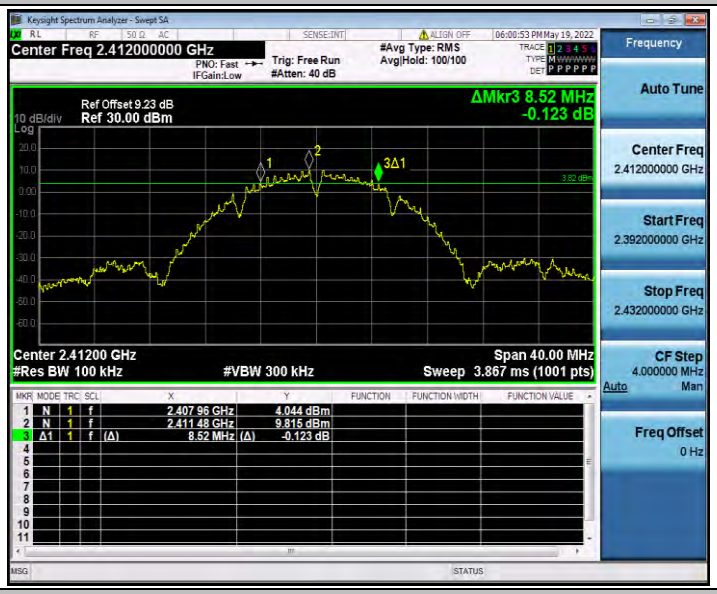
Appendix C.1: DTS Bandwidth

Test Result

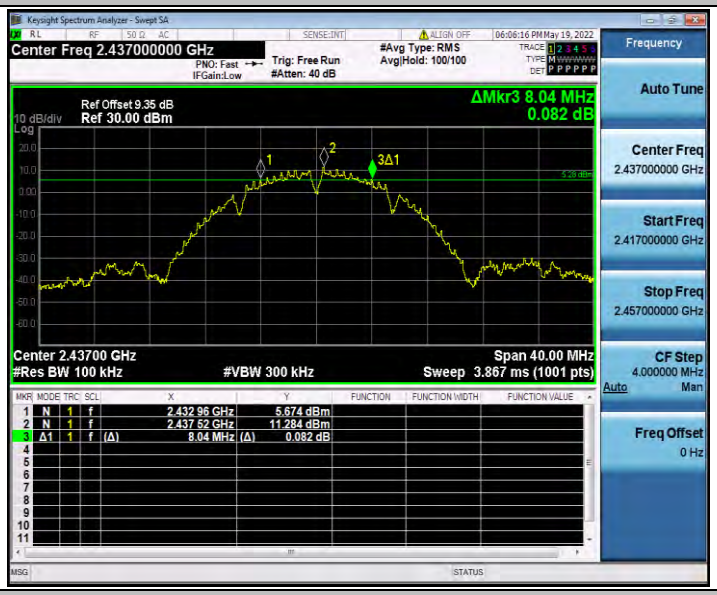
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.520	2407.960	2416.480	0.5	PASS
		2437	8.040	2432.960	2441.000	0.5	PASS
		2462	8.520	2458.000	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.600	2428.240	2445.840	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS
11N40SISO	Ant1	2422	36.400	2403.840	2440.240	0.5	PASS
		2437	35.920	2419.240	2455.160	0.5	PASS
		2452	36.080	2434.080	2470.160	0.5	PASS

Test Graphs

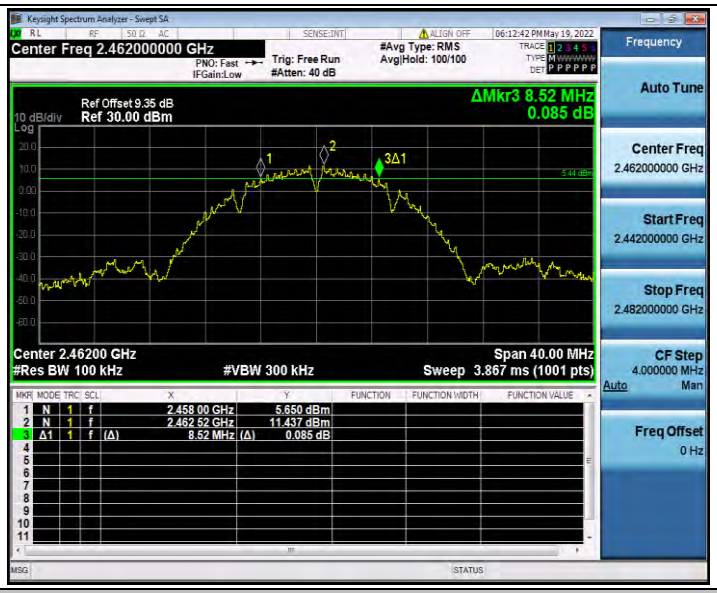
11B_Ant1_2412



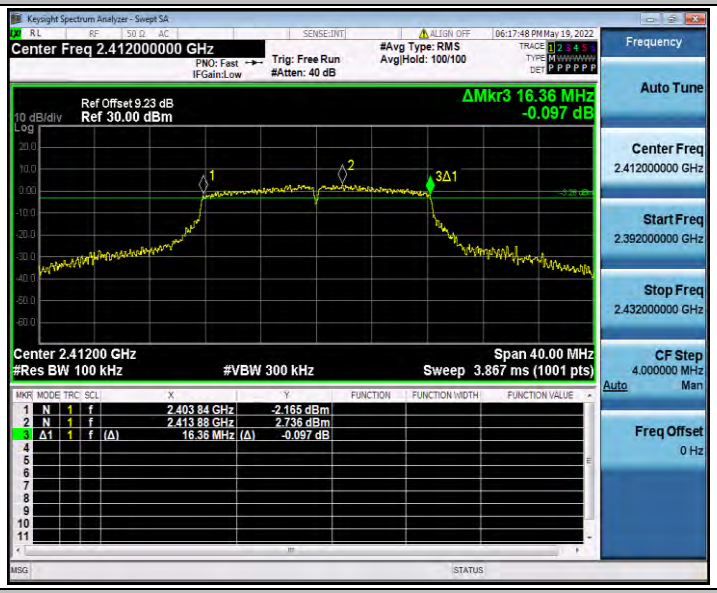
11B_Ant1_2437



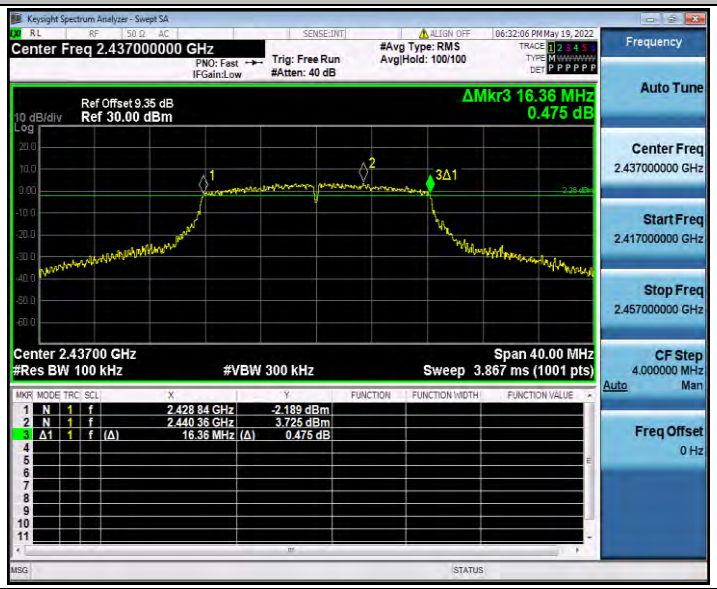
11B_Ant1_2462



11G_Ant1_2412

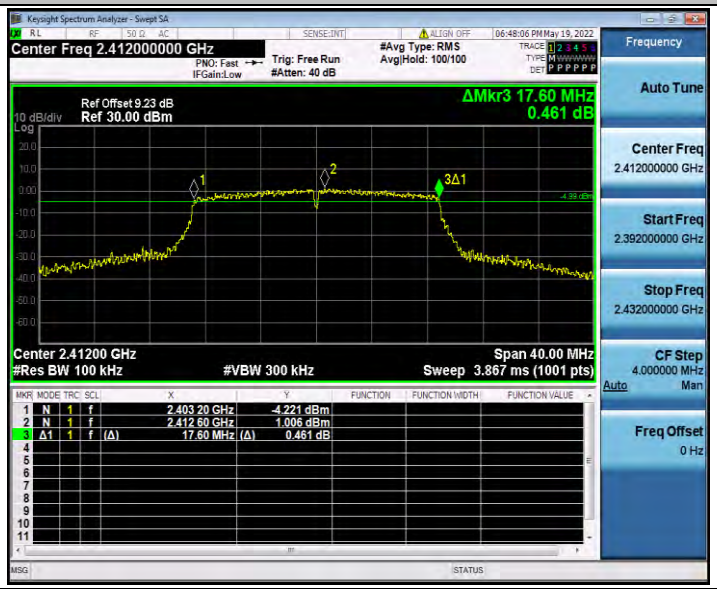


11G_Ant1_2437



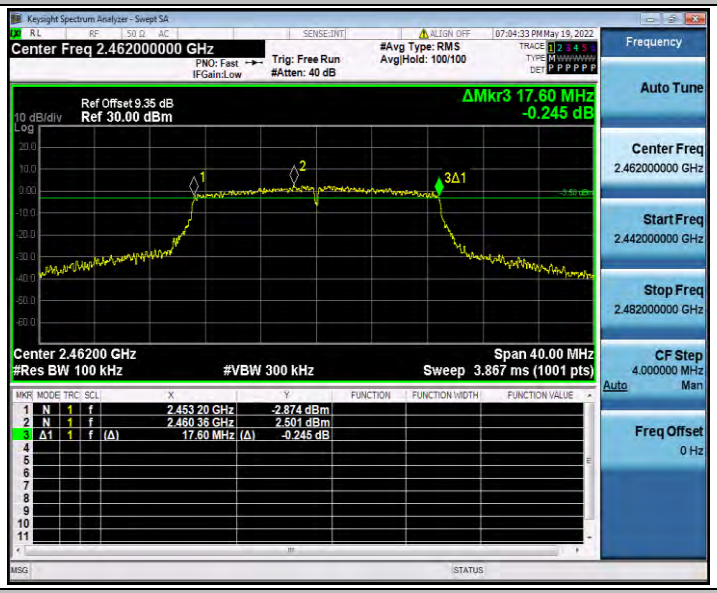
11G_Ant1_2462

11N20SISO_Ant1_2412

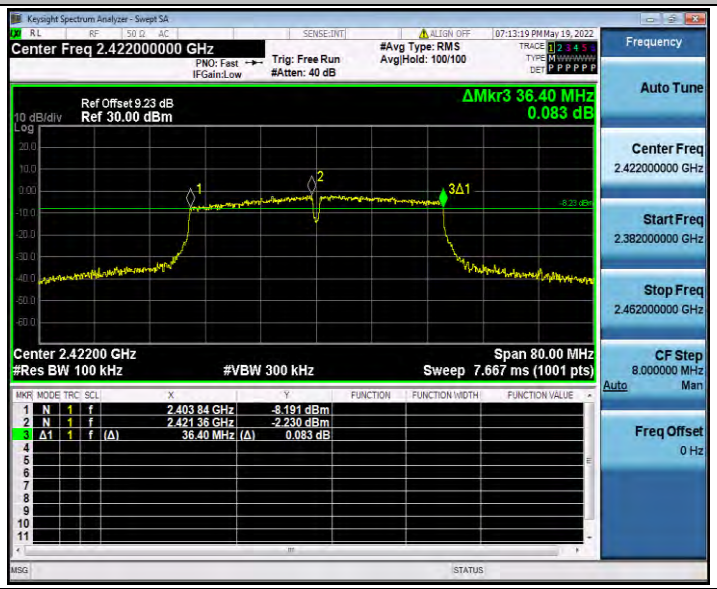


11N20SISO_Ant1_2437

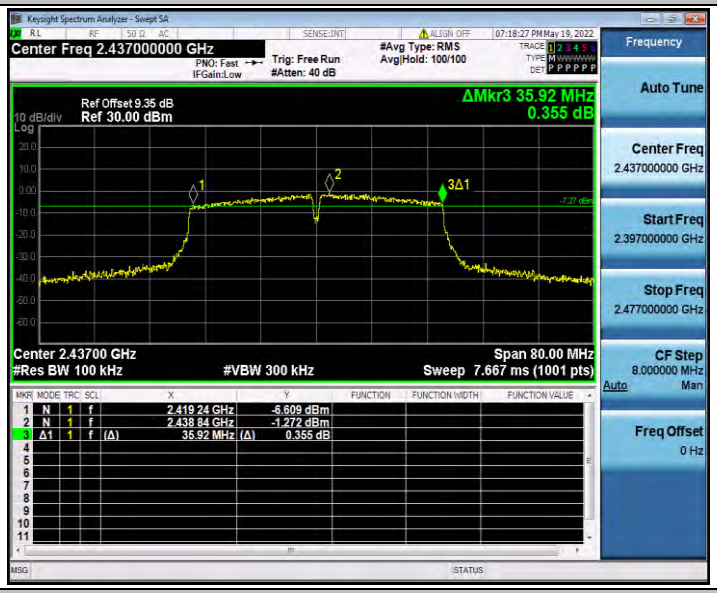
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

Appendix C.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.456	2405.346	2418.802	---	---
		2437	13.288	2430.413	2443.701	---	---
		2462	13.256	2455.396	2468.652	---	---
11G	Ant1	2412	16.961	2403.567	2420.528	---	---
		2437	16.918	2428.568	2445.486	---	---
		2462	16.866	2453.611	2470.477	---	---
11N20SISO	Ant1	2412	17.870	2403.084	2420.954	---	---
		2437	17.839	2428.141	2445.980	---	---
		2462	17.829	2453.118	2470.947	---	---
11N40SISO	Ant1	2422	36.233	2404.014	2440.247	---	---
		2437	36.098	2419.110	2455.208	---	---
		2452	36.196	2434.041	2470.237	---	---

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

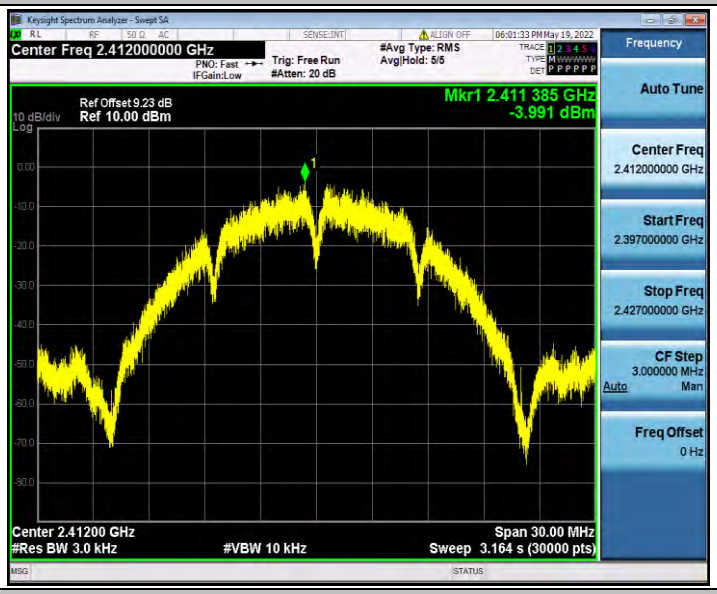
11N40SISO_Ant1_2452

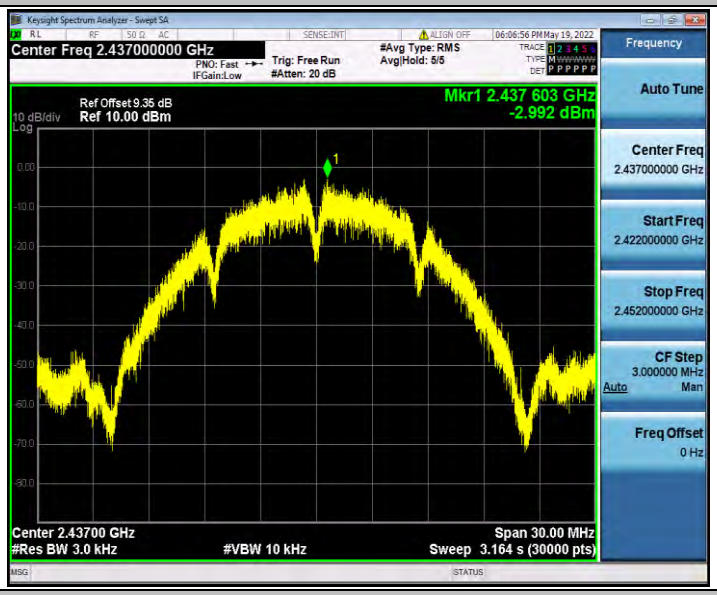
Appendix C.3: Maximum power spectral density

Test Result

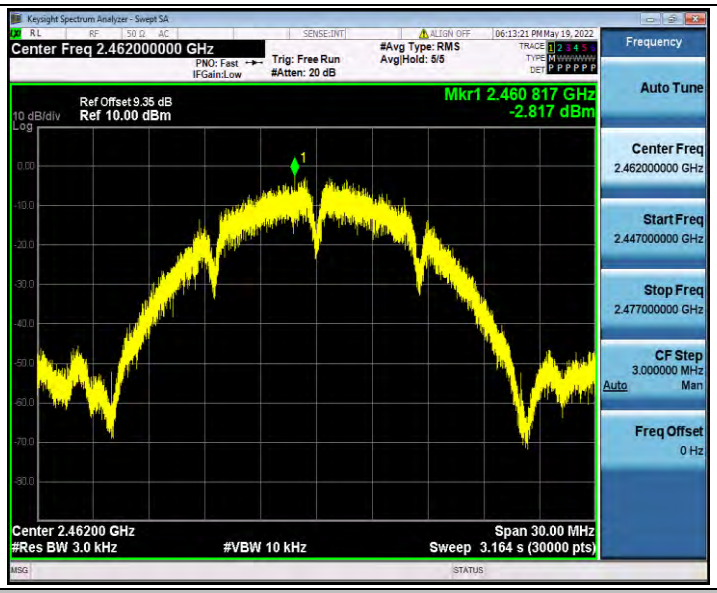
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-3.99	≤8.00	PASS
		2437	-2.99	≤8.00	PASS
		2462	-2.82	≤8.00	PASS
11G	Ant1	2412	-8.76	≤8.00	PASS
		2437	-7.69	≤8.00	PASS
		2462	-7.81	≤8.00	PASS
11N20SISO	Ant1	2412	-9.57	≤8.00	PASS
		2437	-8.62	≤8.00	PASS
		2462	-8.68	≤8.00	PASS
11N40SISO	Ant1	2422	-12.72	≤8.00	PASS
		2437	-13.03	≤8.00	PASS
		2452	-12.03	≤8.00	PASS

Test Graphs

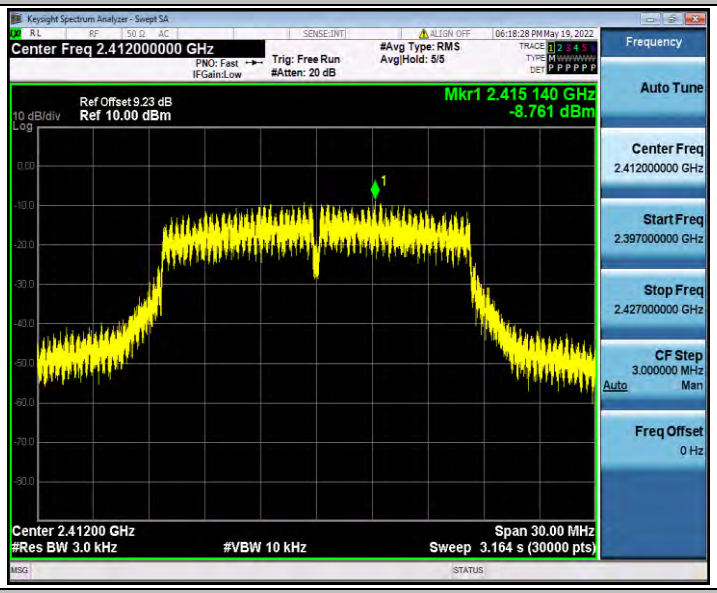
11B_Ant1_2412


11B_Ant1_2437


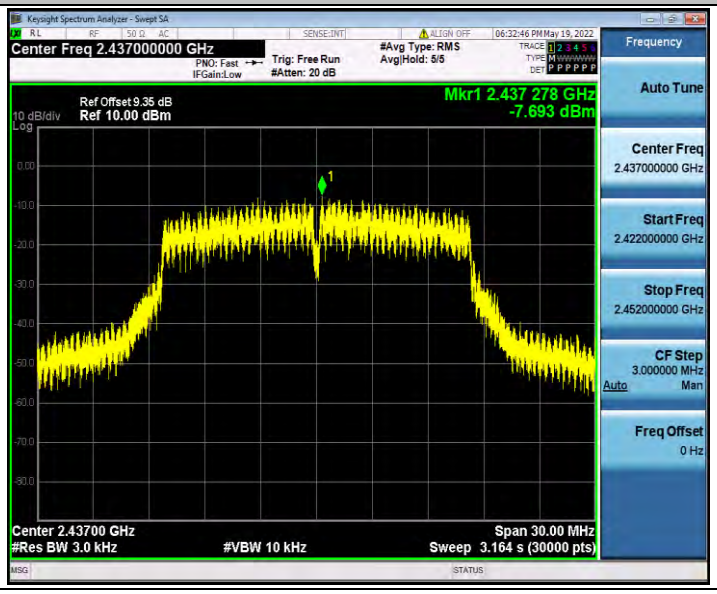
11B_Ant1_2462



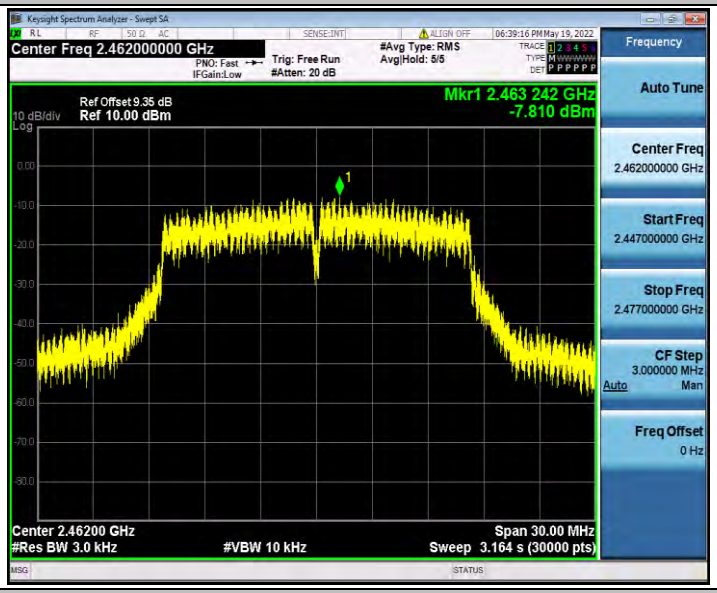
11G_Ant1_2412



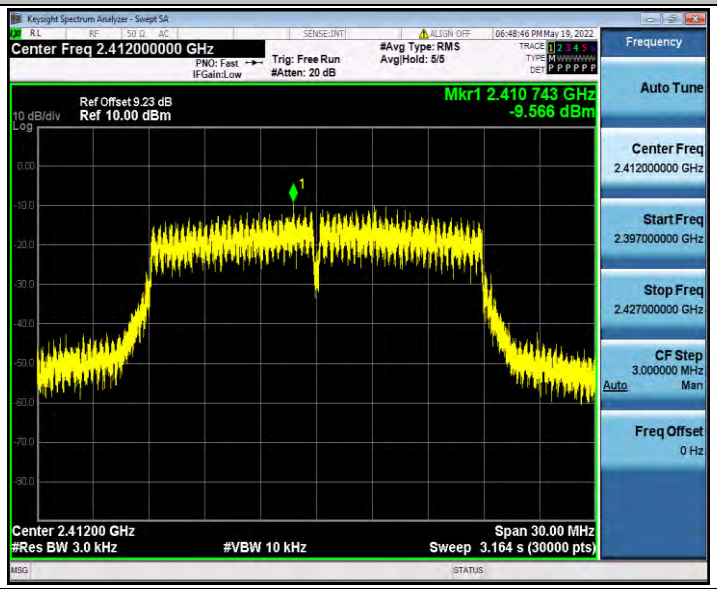
11G_Ant1_2437



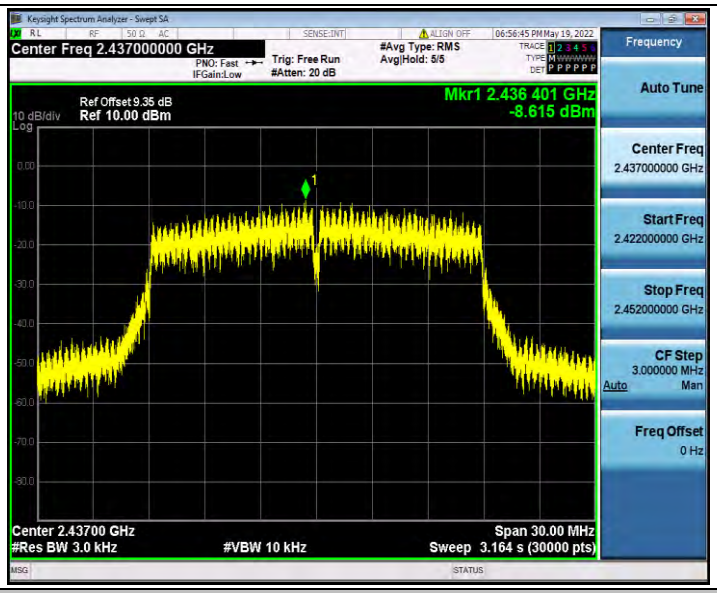
11G_Ant1_2462



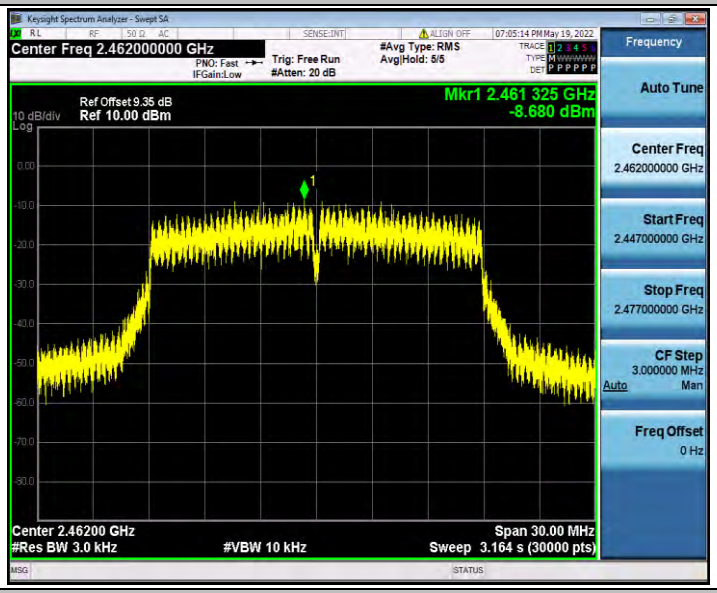
11N20SISO_Ant1_2412



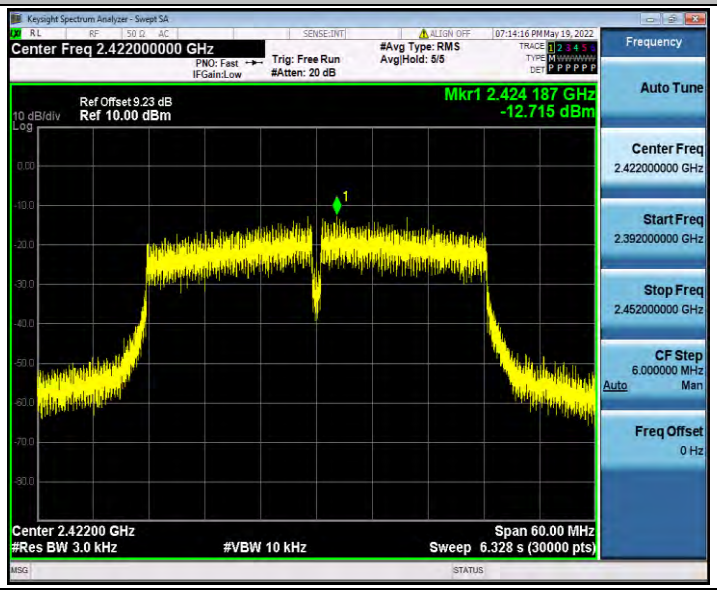
11N20SISO_Ant1_2437

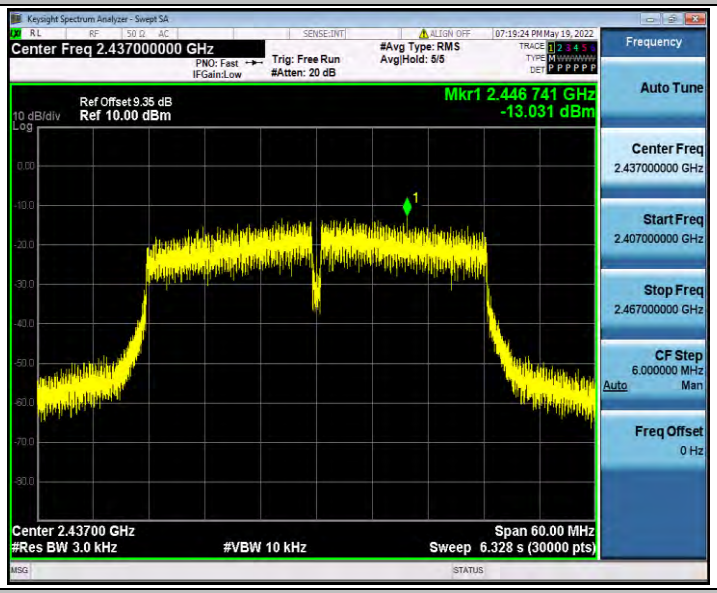


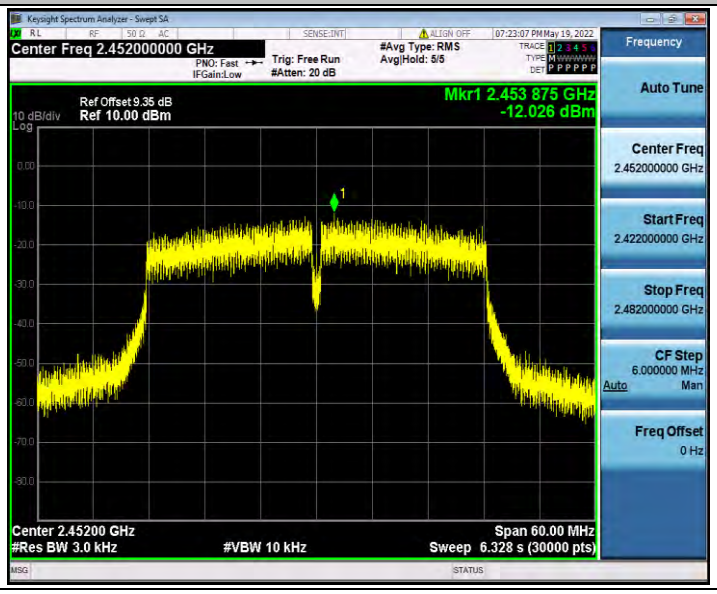
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437


11N40SISO_Ant1_2452


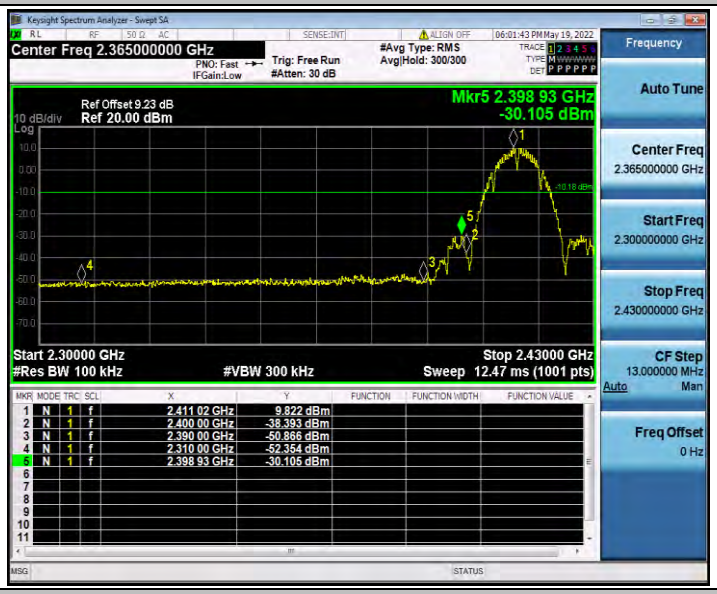
Appendix C.4: Band edge measurements

Test Result

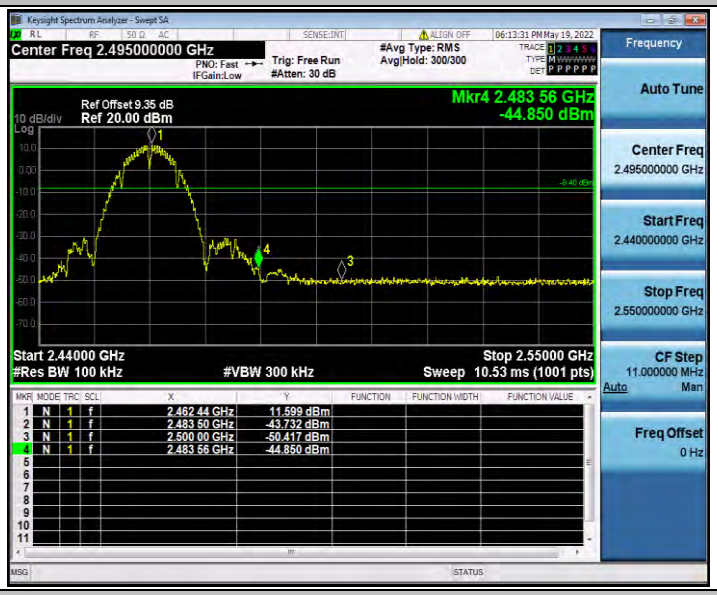
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.82	-30.11	≤-10.18	PASS
		High	2462	11.60	-44.85	≤-8.4	PASS
11G	Ant1	Low	2412	3.00	-23.99	≤-17	PASS
		High	2462	4.30	-38.47	≤-15.71	PASS
11N20SISO	Ant1	Low	2412	1.13	-27.43	≤-18.88	PASS
		High	2462	2.66	-42.21	≤-17.34	PASS
11N40SISO	Ant1	Low	2422	-1.57	-33.15	≤-21.57	PASS
		High	2452	-1.05	-38.19	≤-21.05	PASS

Test Graphs

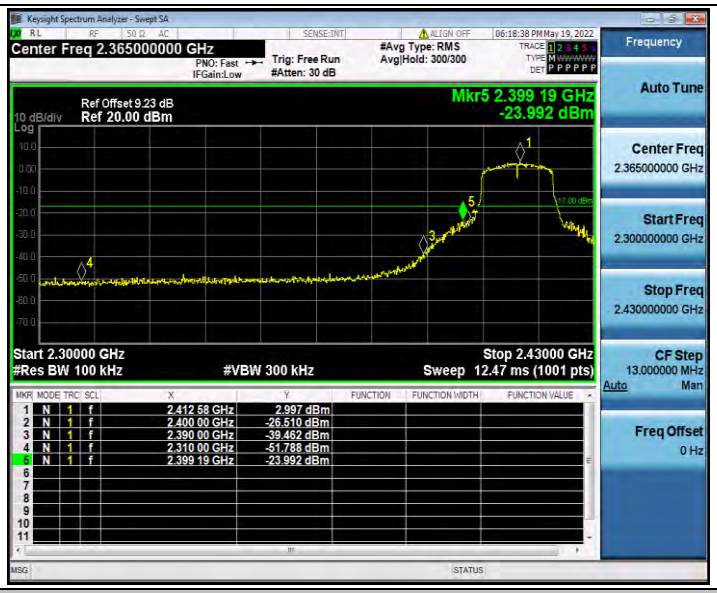
11B_Ant1_Low_2412



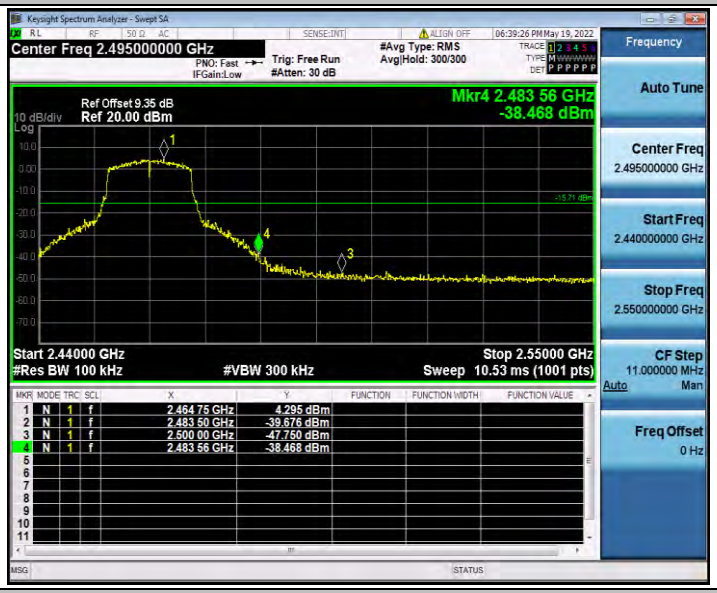
11B_Ant1_High_2462



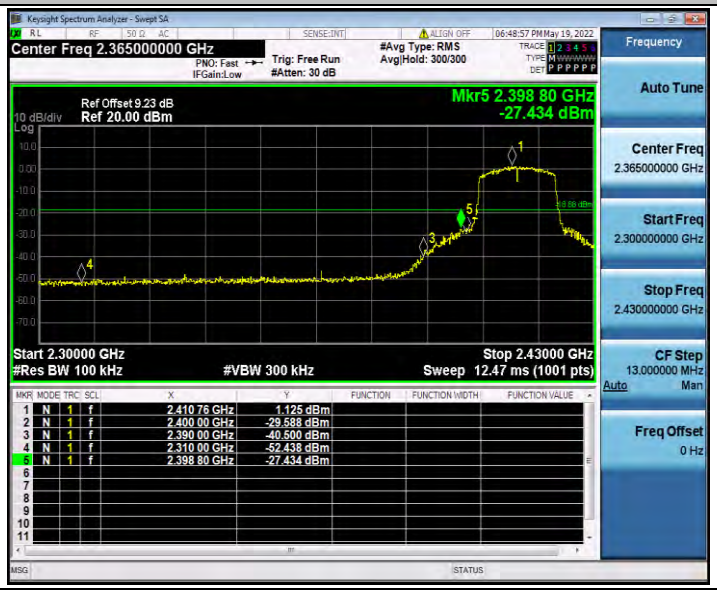
11G_Ant1_Low_2412



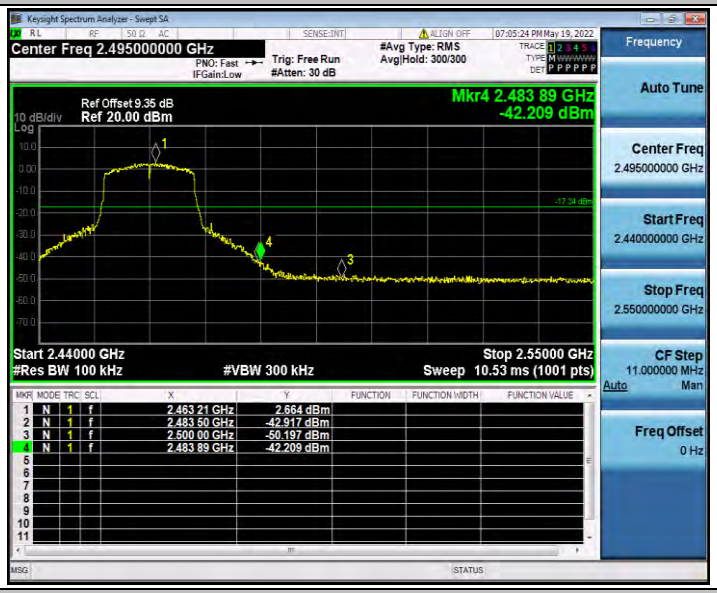
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

11N40SISO_Ant1_High_2452

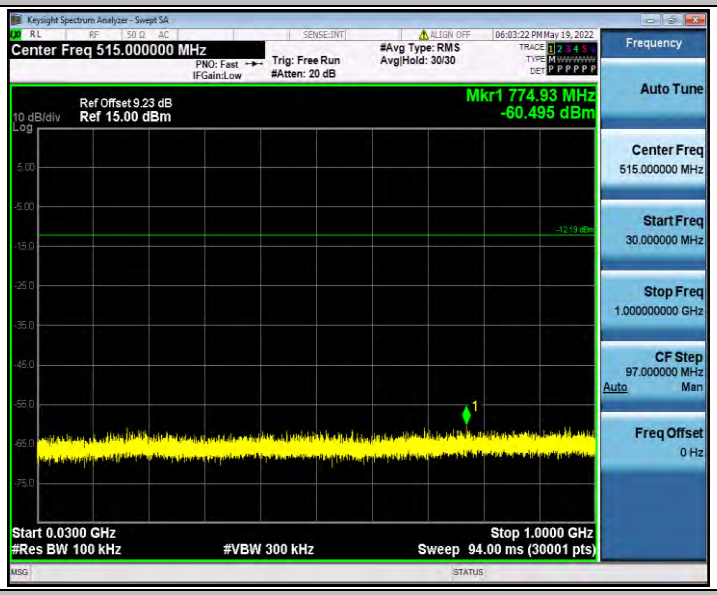
Keysight Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN OFF
07:23:17 PM May 19, 2022
Center Freq 2.495000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 300/300
TRACE 1 2 3 4 5 6
TYPE M WWWWWW
DET P P P P P P
Frequency
Auto Tune
Center Freq
2.495000000 GHz
Start Freq
2.440000000 GHz
Stop Freq
2.550000000 GHz
CF Step
11.000000 MHz
Auto
Man
Freq Offset
0 Hz
Ref Offset 9.35 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr4 2.485 32 GHz
-38.194 dBm
-21.05 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 2.450 78 GHz -1.052 dBm
2 N 1 f 2.483 50 GHz -41.091 dBm
3 N 1 f 2.500 00 GHz -49.092 dBm
4 N 1 f 2.485 32 GHz -38.194 dBm
MSG
STATUS

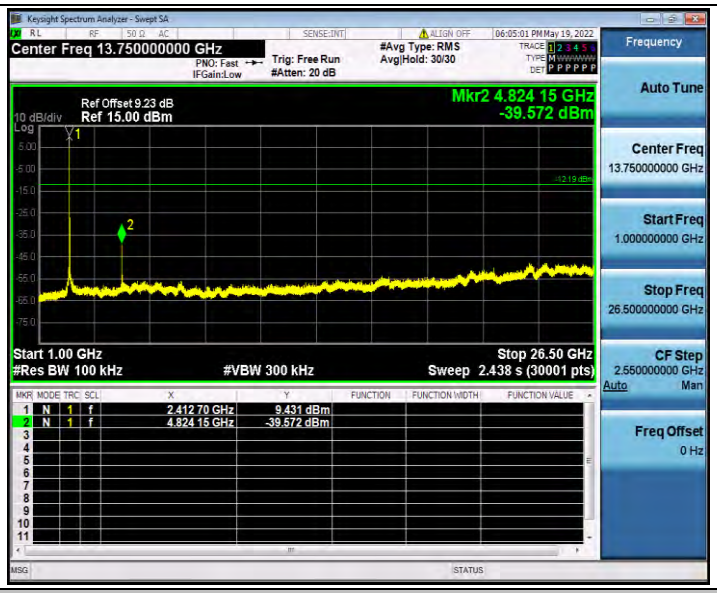
Appendix C.5: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.81	7.81	---	PASS
			30~1000	7.81	-60.5	≤-12.19	PASS
			1000~26500	7.81	-39.57	≤-12.19	PASS
		2437	Reference	10.06	10.06	---	PASS
			30~1000	10.06	-57.83	≤-9.94	PASS
			1000~26500	10.06	-39.25	≤-9.94	PASS
		2462	Reference	8.41	8.41	---	PASS
			30~1000	8.41	-59.54	≤-11.59	PASS
			1000~26500	8.41	-40.64	≤-11.59	PASS
11G	Ant1	2412	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-57.87	≤-17	PASS
			1000~26500	3.00	-47.23	≤-17	PASS
		2437	Reference	3.02	3.02	---	PASS
			30~1000	3.02	-58.85	≤-16.98	PASS
			1000~26500	3.02	-47.76	≤-16.98	PASS
		2462	Reference	3.02	3.02	---	PASS
			30~1000	3.02	-60.46	≤-16.98	PASS
			1000~26500	3.02	-47.95	≤-16.98	PASS
11N20SISO	Ant1	2412	Reference	0.31	0.31	---	PASS
			30~1000	0.31	-60.33	≤-19.69	PASS
			1000~26500	0.31	-47.87	≤-19.69	PASS
		2437	Reference	1.02	1.02	---	PASS
			30~1000	1.02	-59.85	≤-18.98	PASS
			1000~26500	1.02	-48.12	≤-18.98	PASS
		2462	Reference	3.21	3.21	---	PASS
			30~1000	3.21	-60.91	≤-16.79	PASS
			1000~26500	3.21	-48.27	≤-16.79	PASS
11N40SISO	Ant1	2422	Reference	-2.47	-2.47	---	PASS
			30~1000	-2.47	-59.29	≤-22.47	PASS
			1000~26500	-2.47	-48.1	≤-22.47	PASS
		2437	Reference	-2.06	-2.06	---	PASS
			30~1000	-2.06	-59.84	≤-22.06	PASS
			1000~26500	-2.06	-47.02	≤-22.06	PASS
		2452	Reference	-2.06	-2.06	---	PASS
			30~1000	-2.06	-60.26	≤-22.06	PASS
			1000~26500	-2.06	-47.99	≤-22.06	PASS

Test Graphs

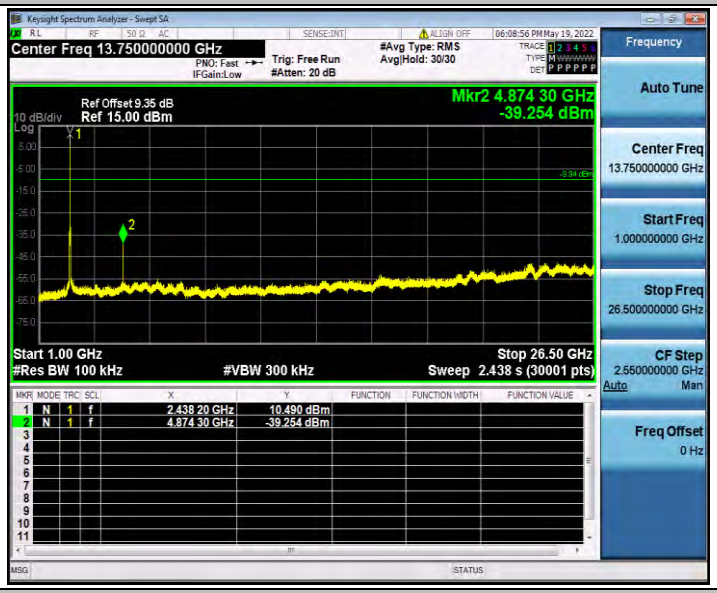
11B_Ant1_2412_0~Reference
11B_Ant1_2412_30~1000

11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference

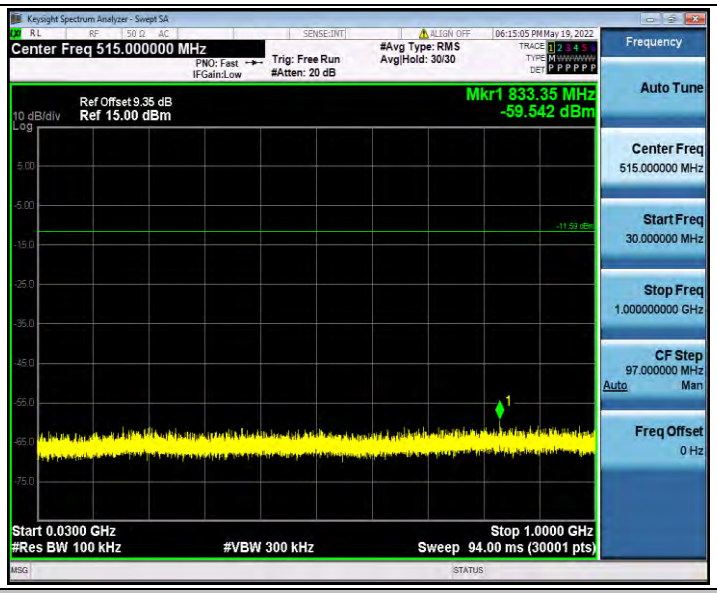
11B_Ant1_2437_30~1000

11B_Ant1_2437_1000~26500

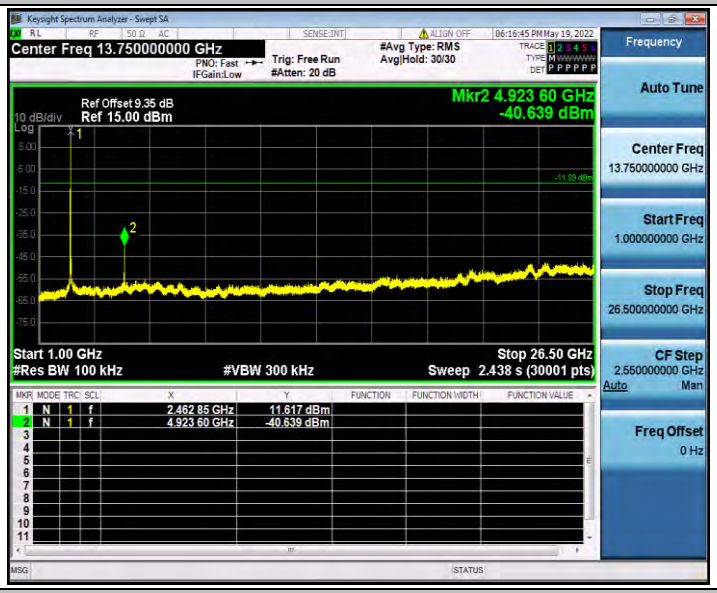


11B_Ant1_2462_0~Reference

11B_Ant1_2462_30~1000

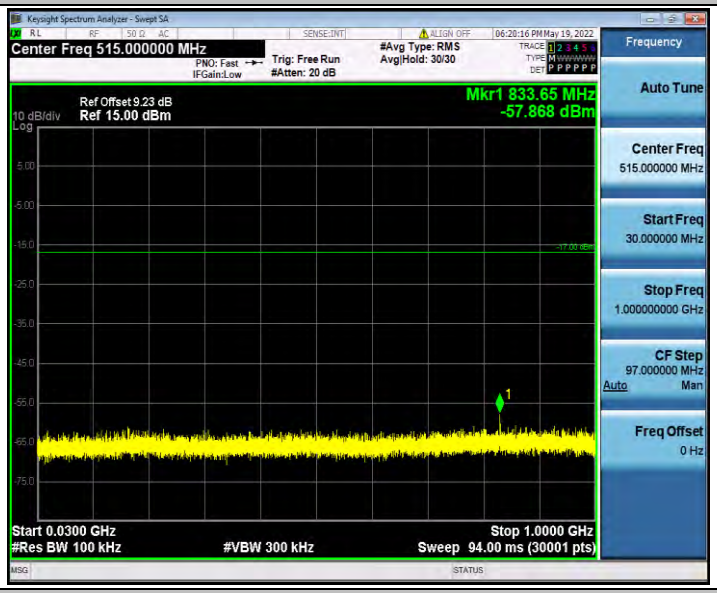


11B_Ant1_2462_1000~26500

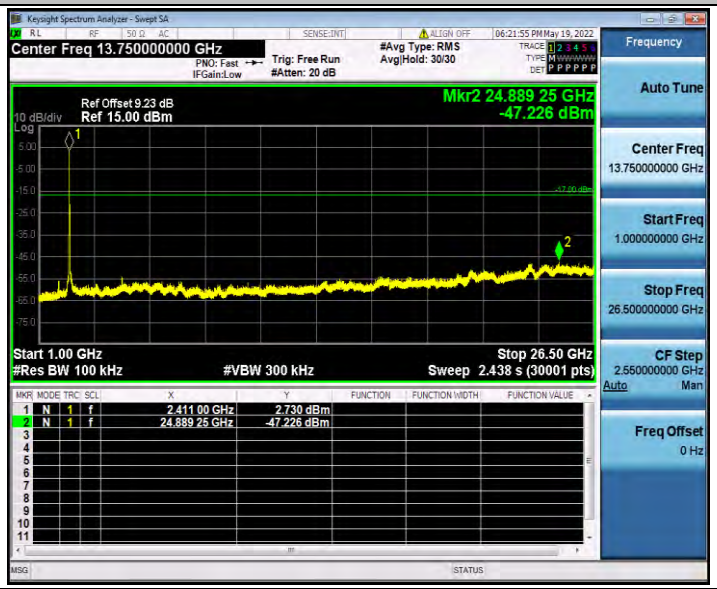


11G_Ant1_2412_0~Reference

11G_Ant1_2412_30~1000

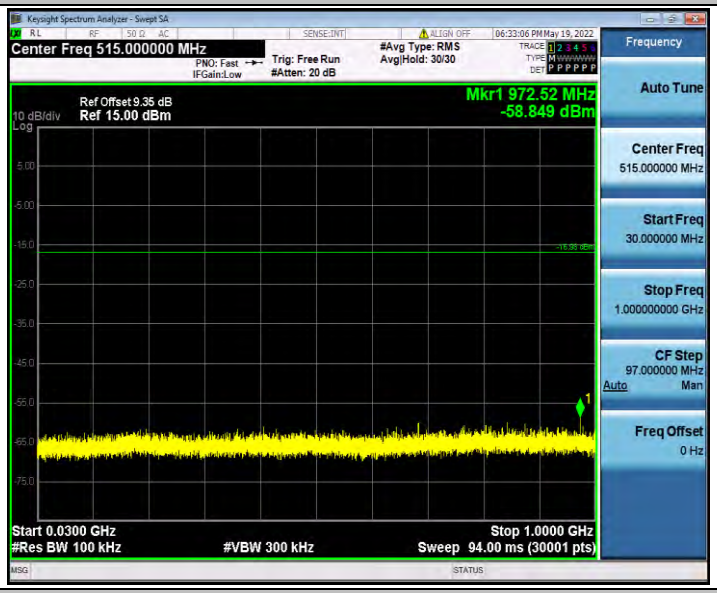


11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

11G_Ant1_2437_30~1000



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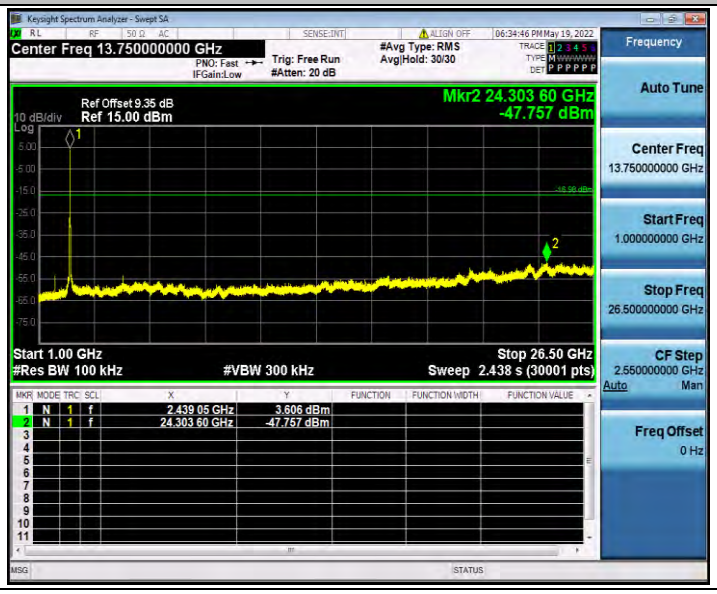

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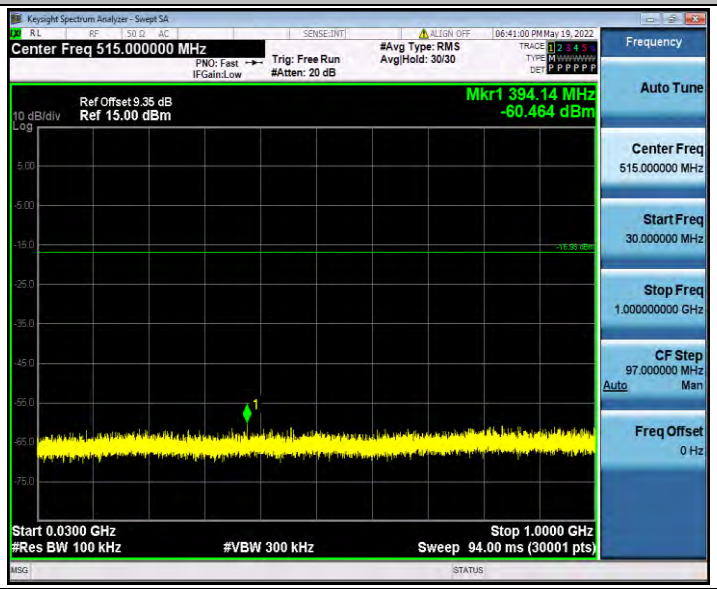

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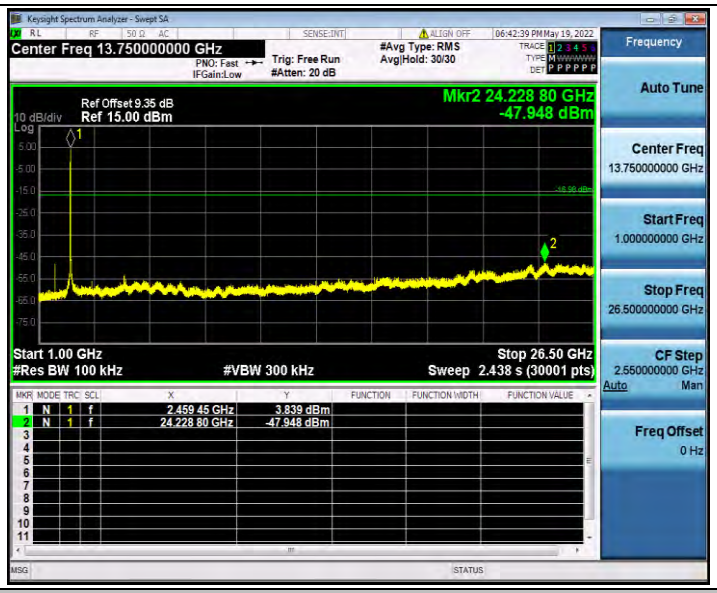
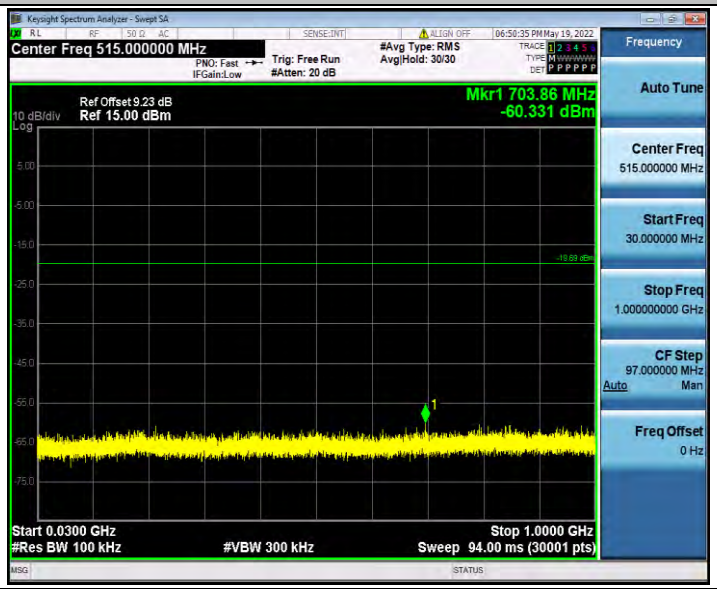
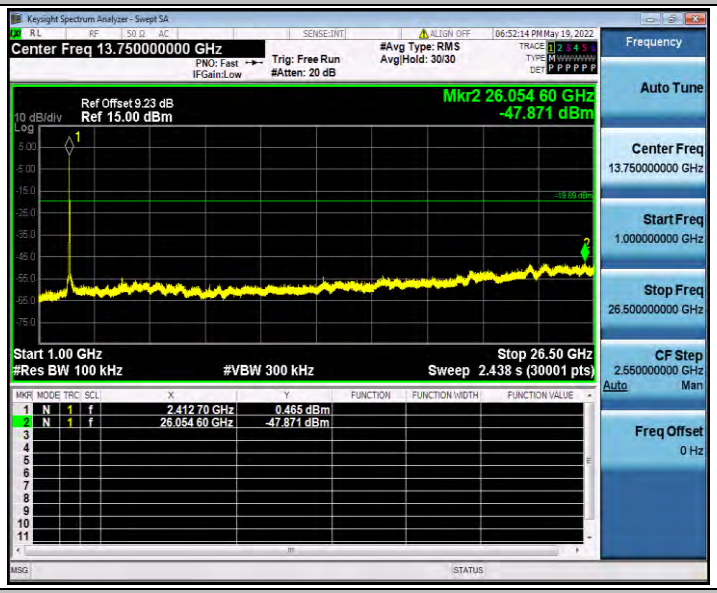


11N20SISO_Ant1_2412_0~Reference

11N20SISO_Ant1_2412_30~1000



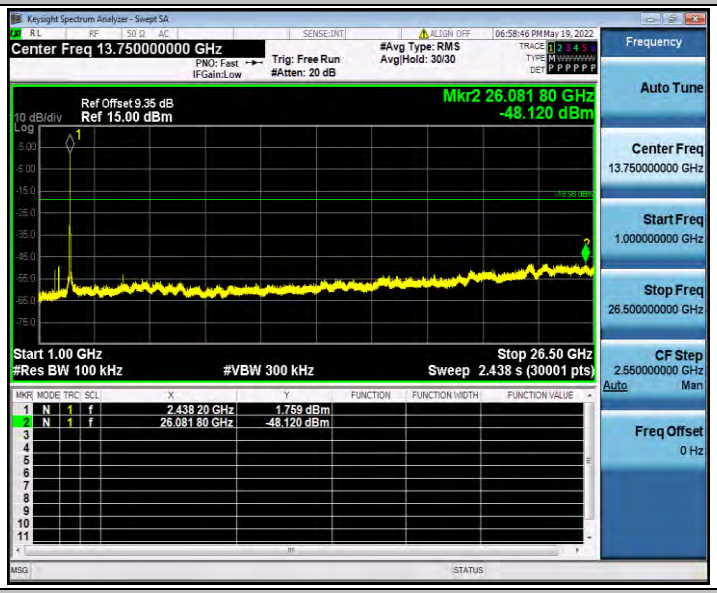
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference

11N20SISO_Ant1_2437_30~1000

11N20SISO_Ant1_2437_1000~26500



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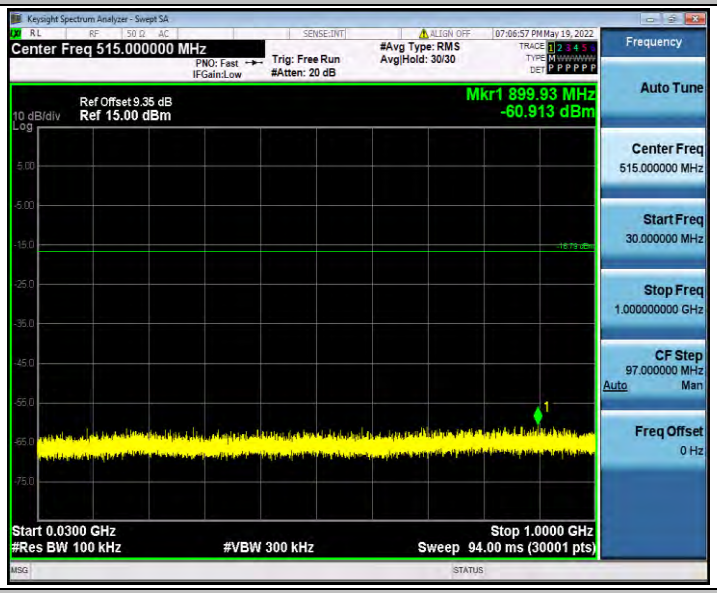
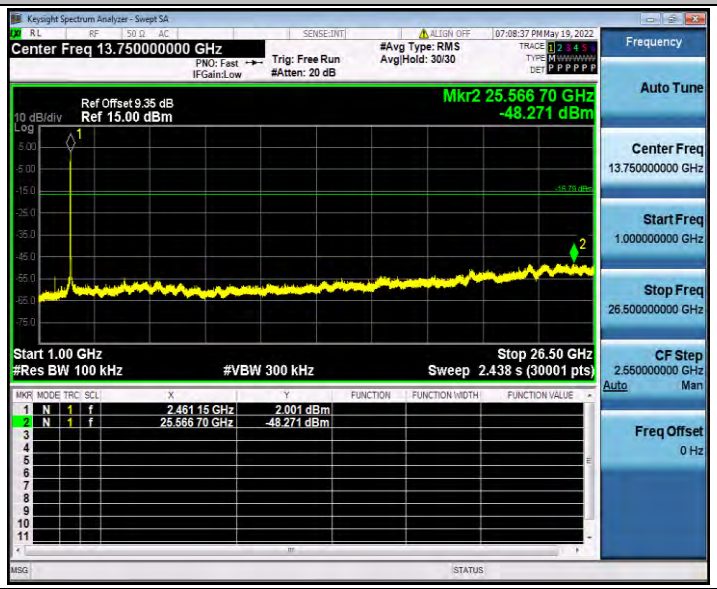
11N20SISO_Ant1_2462_30~1000

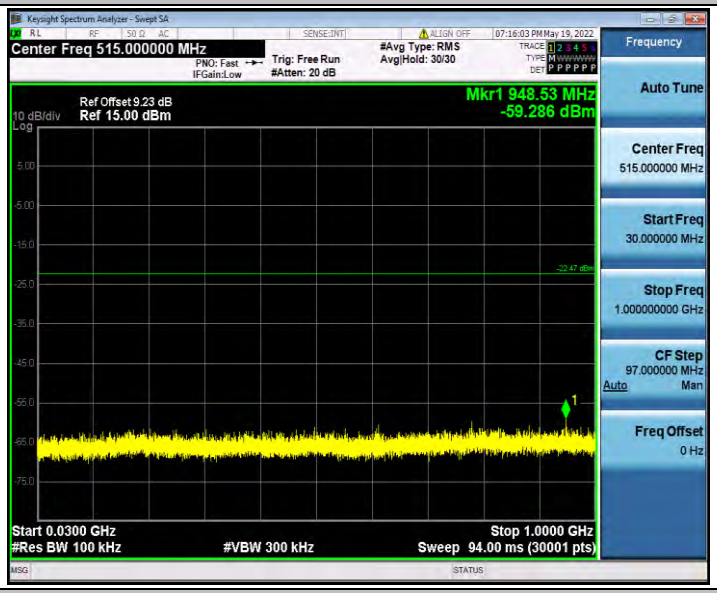


11N20SISO_Ant1_2462_1000~26500

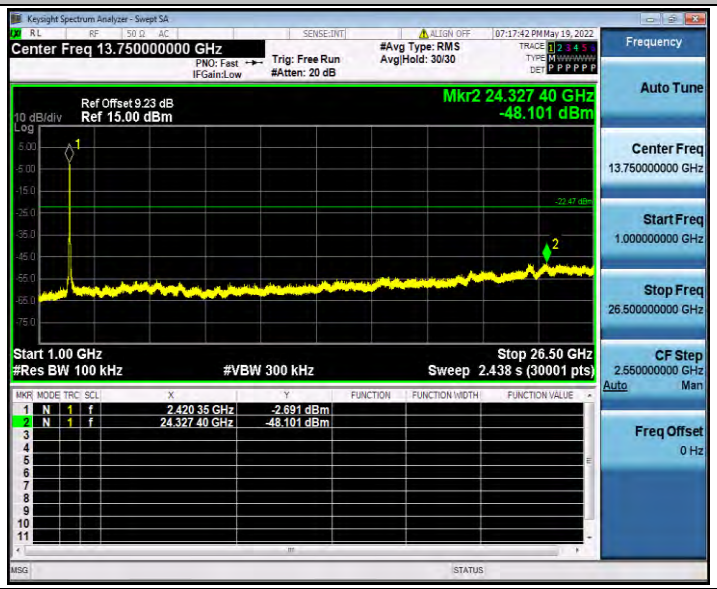


11N40SISO_Ant1_2422_0~Reference

11N40SISO_Ant1_2422_30~1000

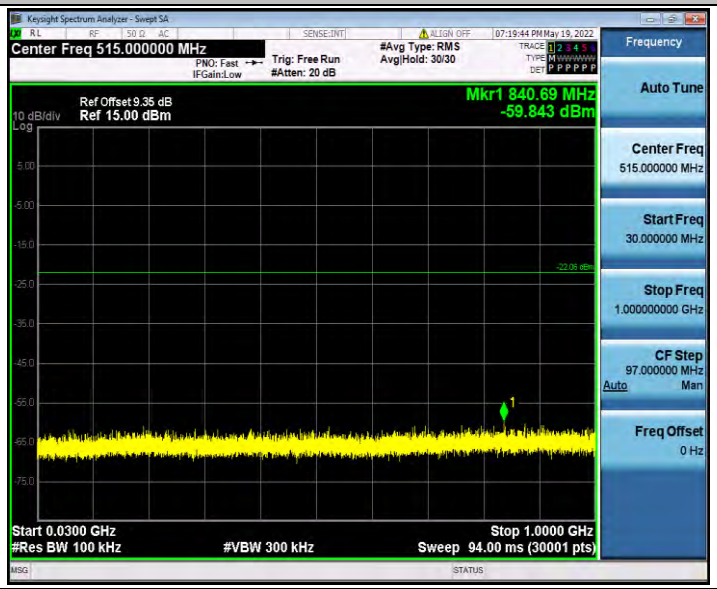


11N40SISO_Ant1_2422_1000~26500

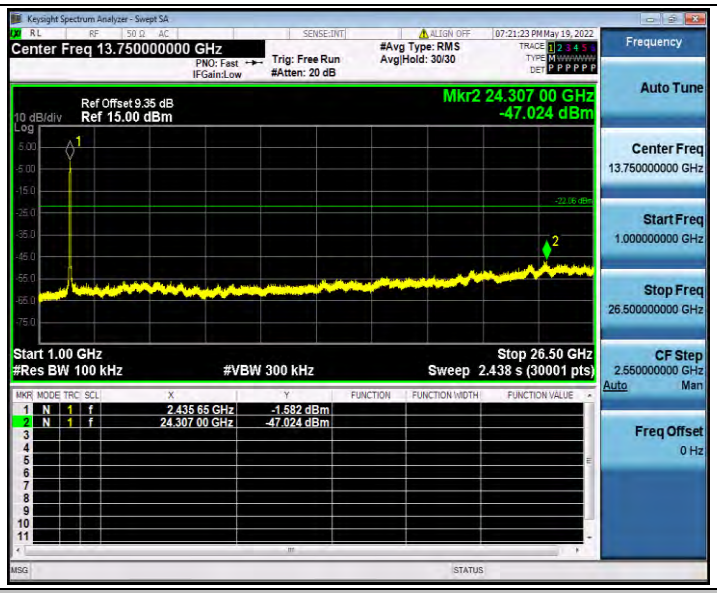


11N40SISO_Ant1_2437_0~Reference

11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference

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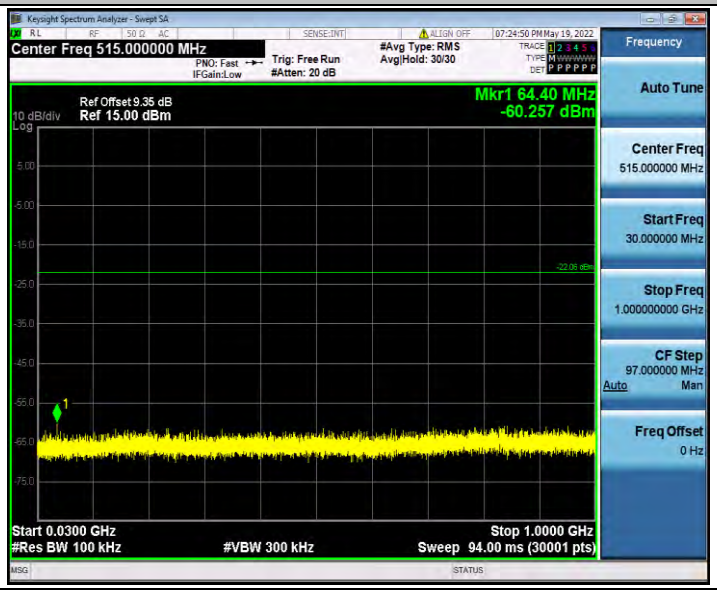
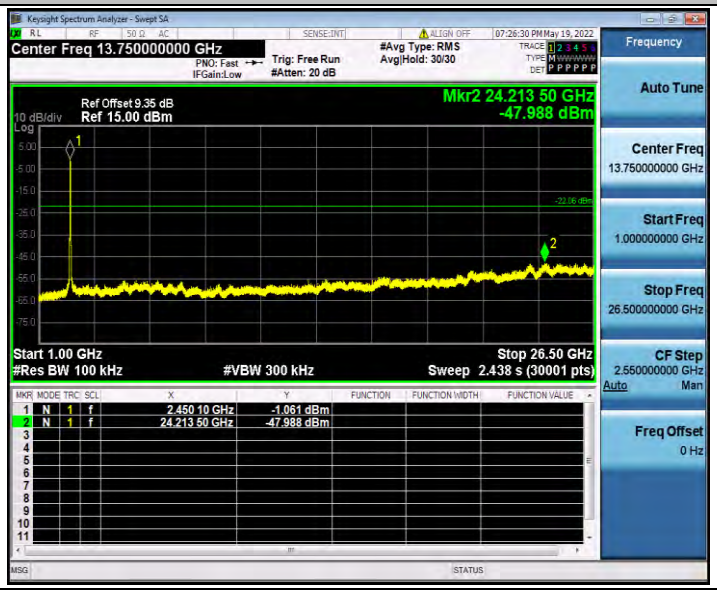
11N40SISO_Ant1_2452_1000~26500