Case No. : GTS20230105011-1-46	
Ambient Condition: 25 ℃, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.3.3	**Test Engineer:** Jenny zeng

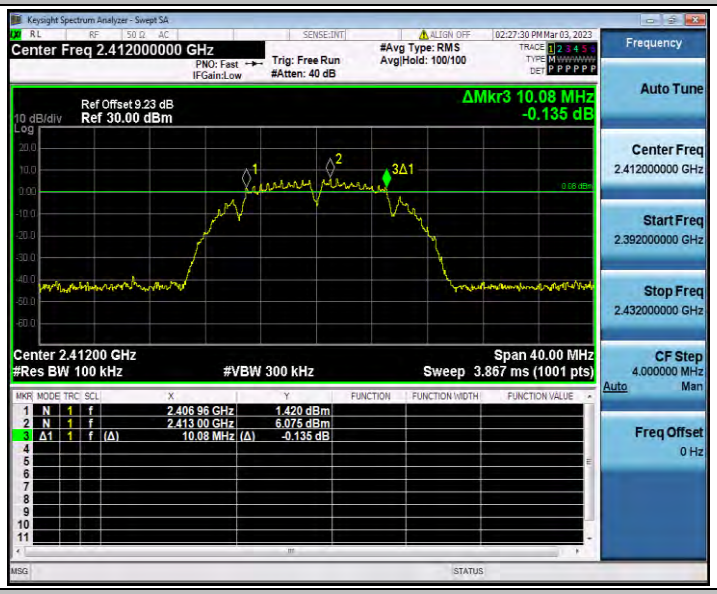
Appendix C.1: DTS Bandwidth

Test Result

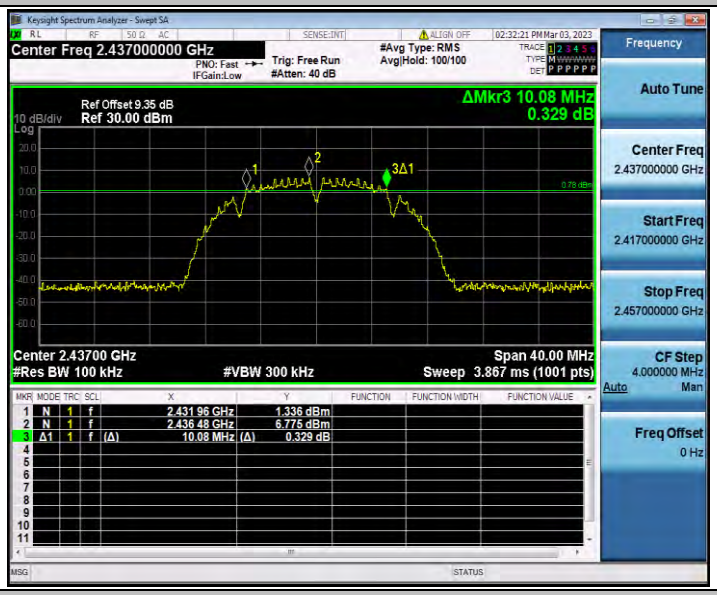
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant2	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant2	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N40SISO	Ant2	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	34.960	2419.560	2454.520	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS
11AX20SISO	Ant2	2412	16.360	2404.440	2420.800	0.5	PASS
		2437	15.520	2429.440	2444.960	0.5	PASS
		2462	16.560	2453.280	2469.840	0.5	PASS
11AX40SISO	Ant2	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

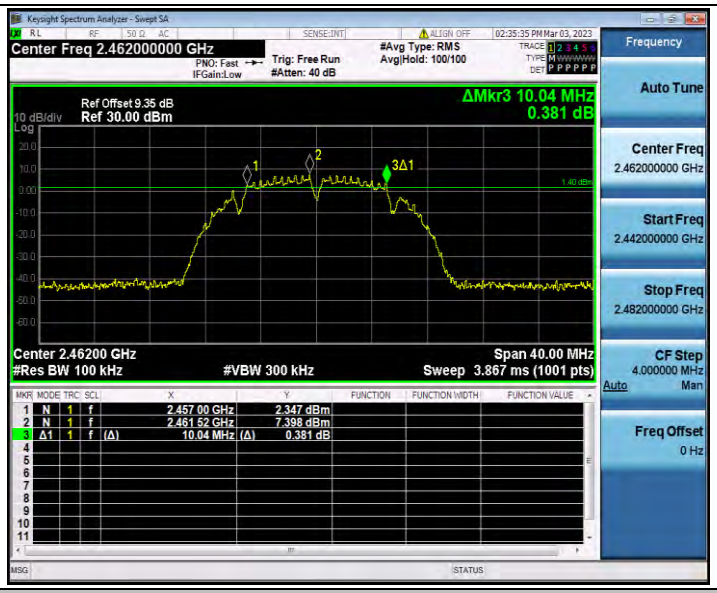
11B_Ant2_2412



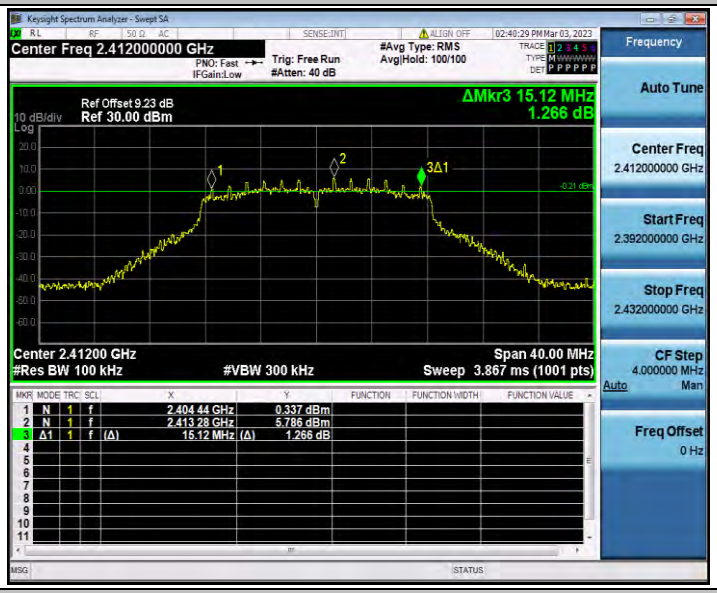
11B_Ant2_2437



11B_Ant2_2462



11G_Ant2_2412



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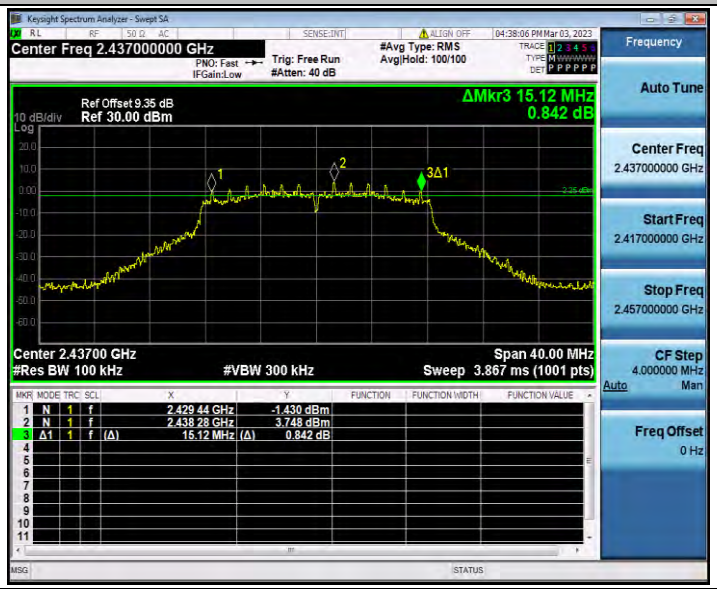
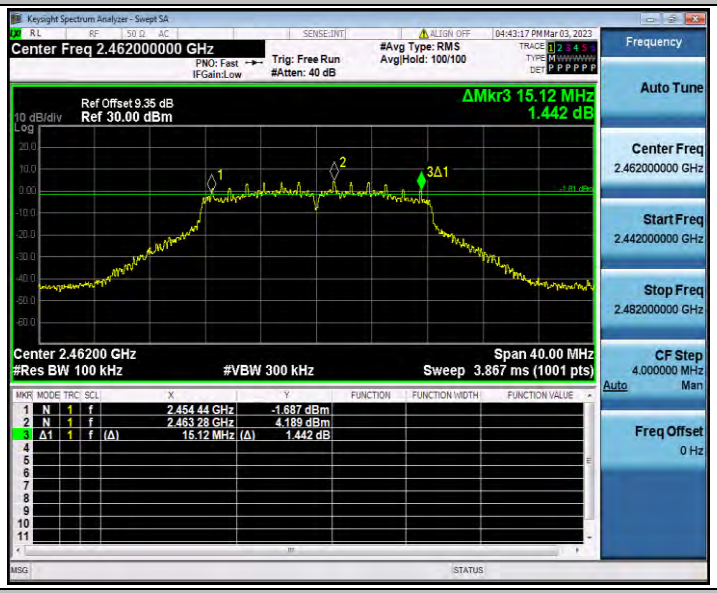
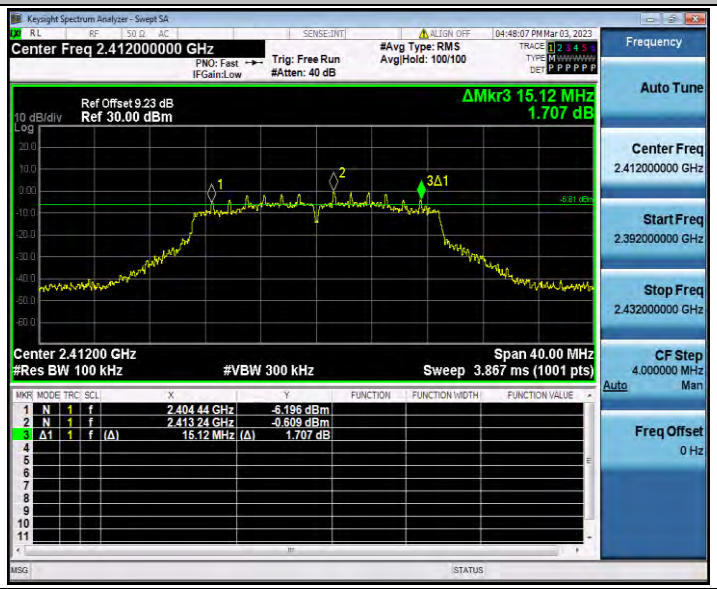


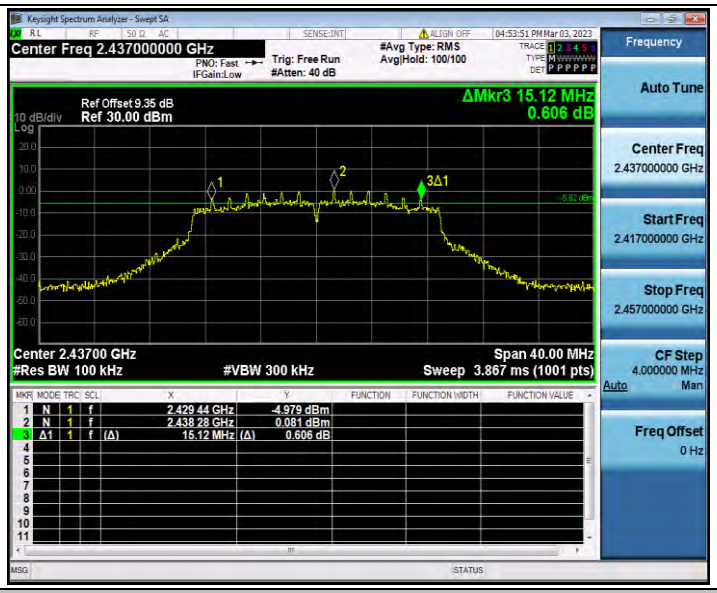
11G_Ant2_2462



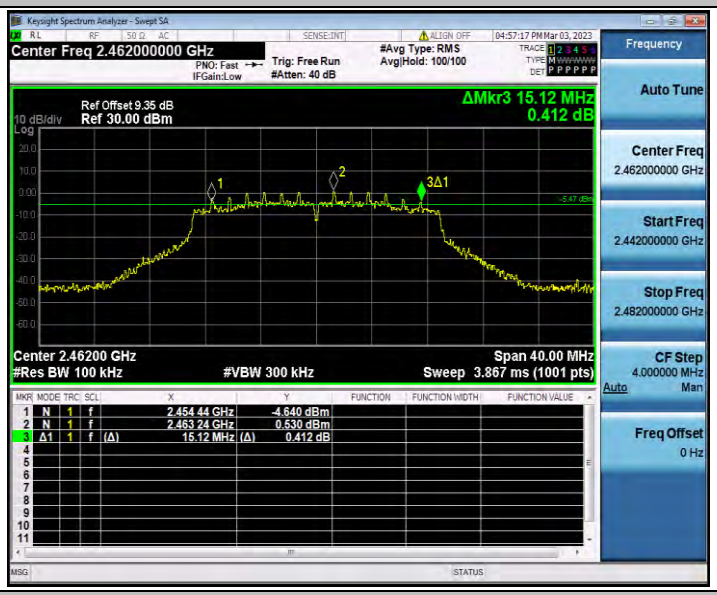
11N20SISO_Ant2_2412



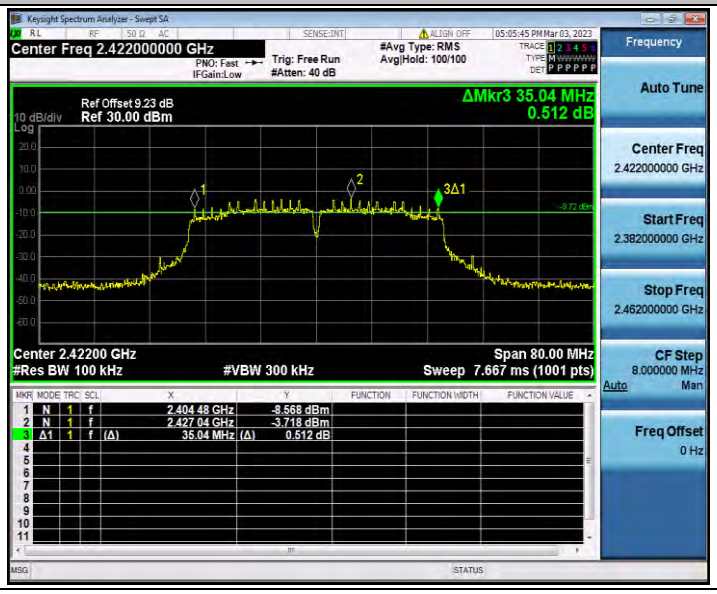
11N20SISO_Ant2_2437



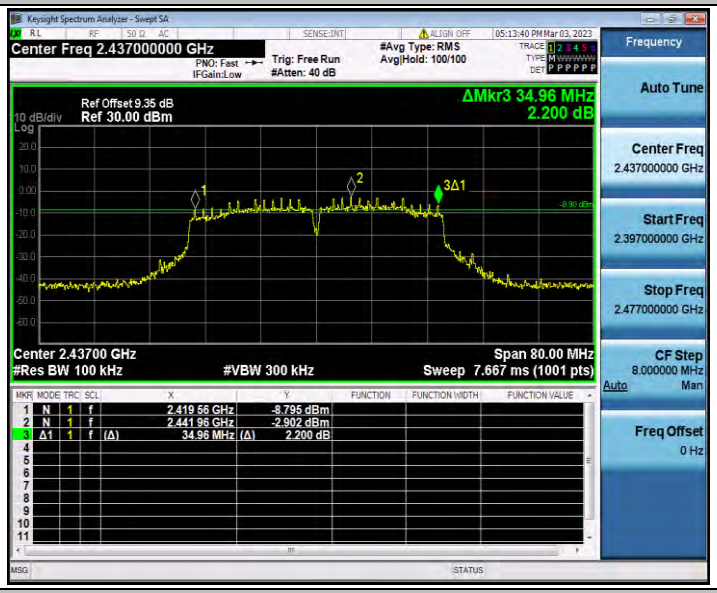
11N20SISO_Ant2_2462



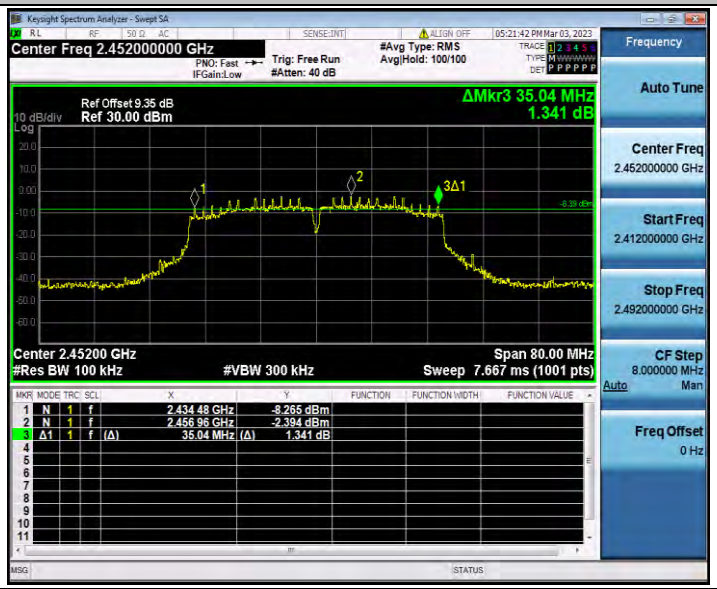
11N40SISO_Ant2_2422



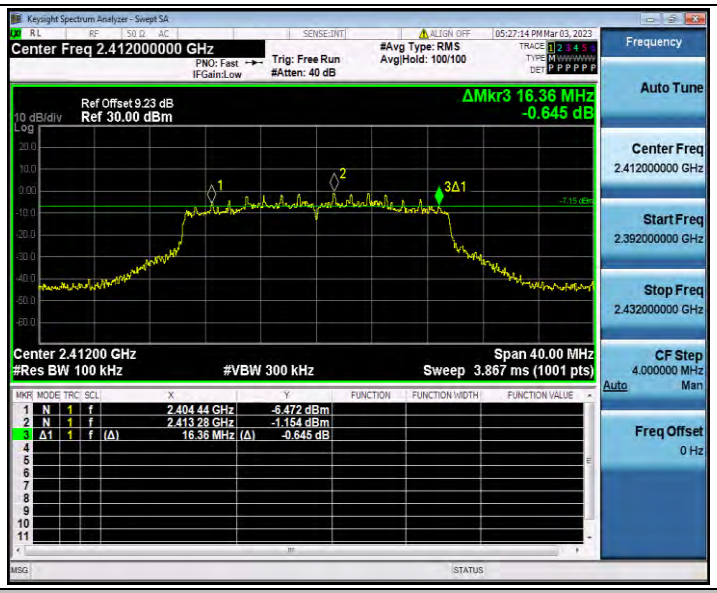
11N40SISO_Ant2_2437



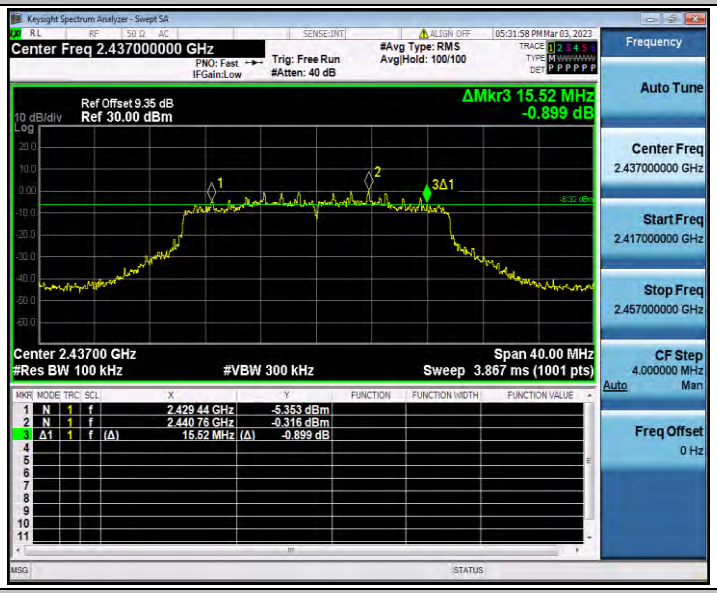
11N40SISO_Ant2_2452



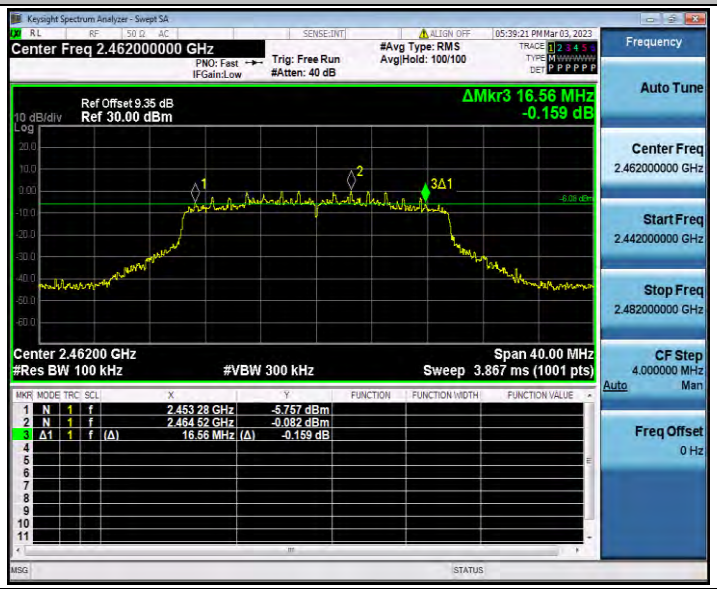
11AX20SISO_Ant2_2412



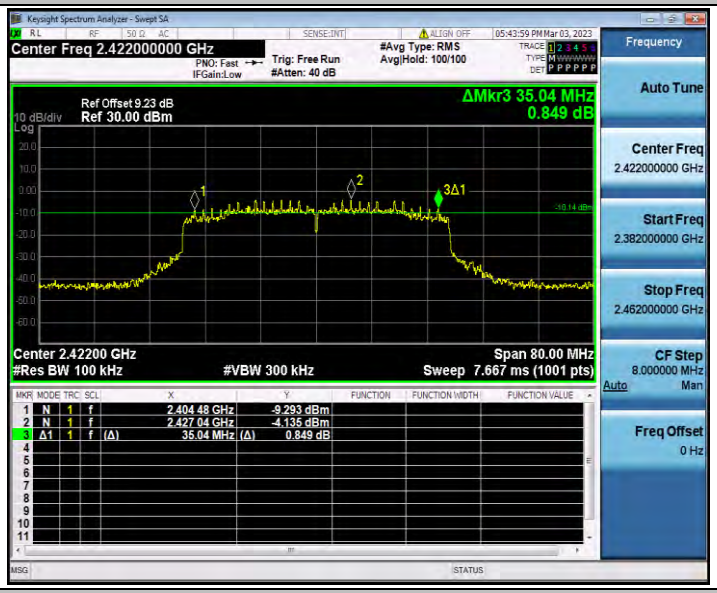
11AX20SISO_Ant2_2437



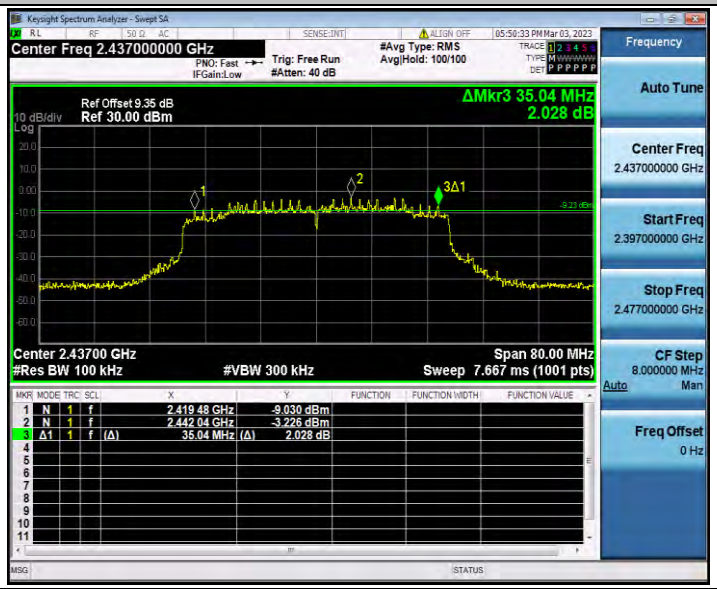
11AX20SISO_Ant2_2462



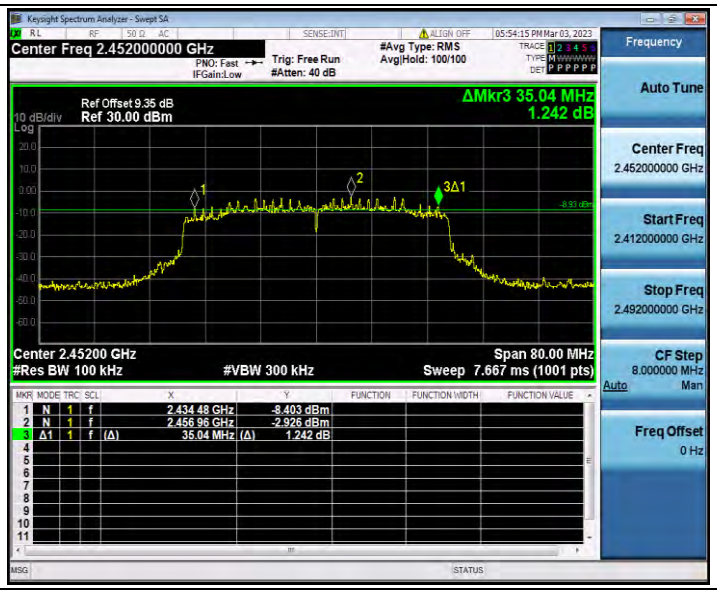
11AX40SISO_Ant2_2422



11AX40SISO_Ant2_2437



11AX40SISO_Ant2_2452


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.452000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 100/100
05:54:15 PM Mar 03, 2023
Ref Offset 9.35 dB
10 dB/div
Ref 30.00 dBm
Log
ΔMkr3 35.04 MHz
1.242 dB
-8.93 dBm
Center 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 80.00 MHz
Sweep 7.667 ms (1001 pts)
1 N 1 f 2.434 48 GHz -8.403 dBm
2 N 1 f 2.456 96 GHz -2.926 dBm
3 Δ1 1 f (Δ) 35.04 MHz (Δ) 1.242 dB
Frequency
Auto Tune
Center Freq
2.452000000 GHz
Start Freq
2.412000000 GHz
Stop Freq
2.492000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

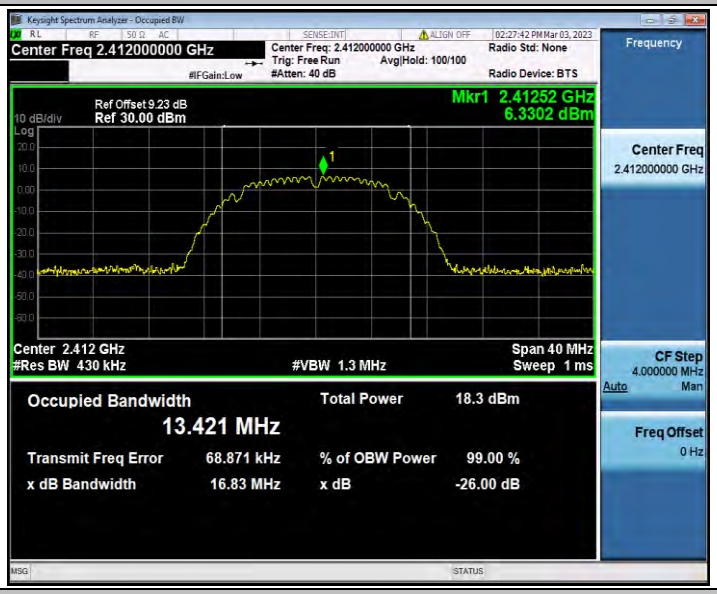
Appendix C.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	13.421	2405.358	2418.779	---	---
		2437	13.429	2430.317	2443.746	---	---
		2462	13.424	2455.264	2468.688	---	---
11G	Ant2	2412	16.754	2403.716	2420.470	---	---
		2437	16.823	2428.620	2445.443	---	---
		2462	16.888	2453.567	2470.455	---	---
11N20SISO	Ant2	2412	17.865	2403.129	2420.994	---	---
		2437	17.907	2428.040	2445.947	---	---
		2462	17.903	2453.001	2470.904	---	---
11N40SISO	Ant2	2422	35.993	2404.077	2440.070	---	---
		2437	36.050	2419.115	2455.165	---	---
		2452	36.042	2434.100	2470.142	---	---
11AX20SISO	Ant2	2412	18.991	2402.564	2421.555	---	---
		2437	18.971	2427.553	2446.524	---	---
		2462	18.985	2452.471	2471.456	---	---
11AX40SISO	Ant2	2422	37.479	2403.327	2440.806	---	---
		2437	37.554	2418.420	2455.974	---	---
		2452	37.515	2433.365	2470.880	---	---

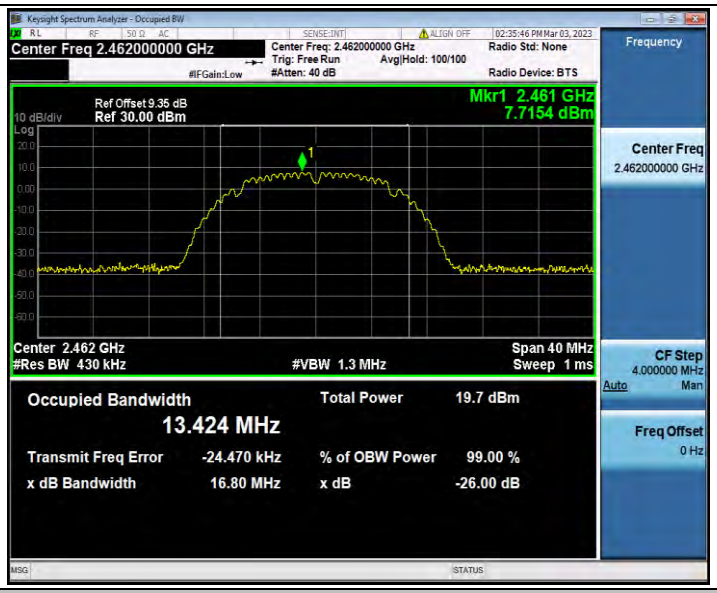
Test Graphs

11B_Ant2_2412



11B_Ant2_2437

11B_Ant2_2462



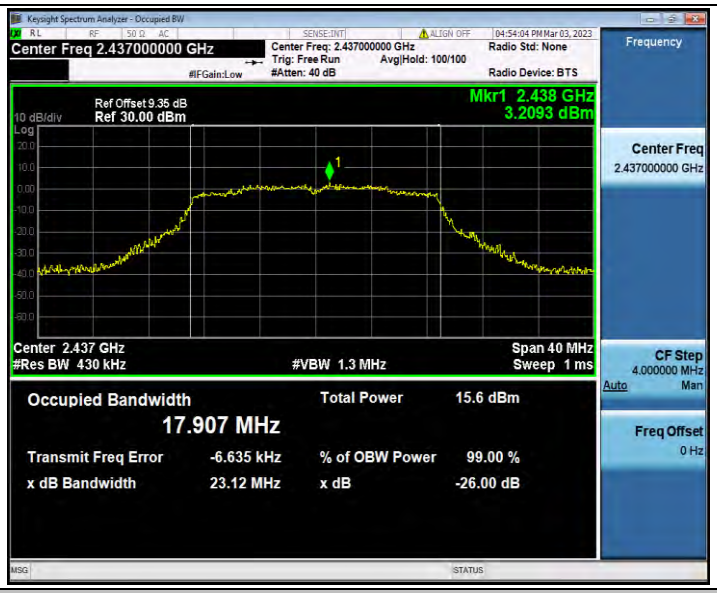
11G_Ant2_2412

11G_Ant2_2437

11G_Ant2_2462

11N20SISO_Ant2_2412

11N20SISO_Ant2_2437



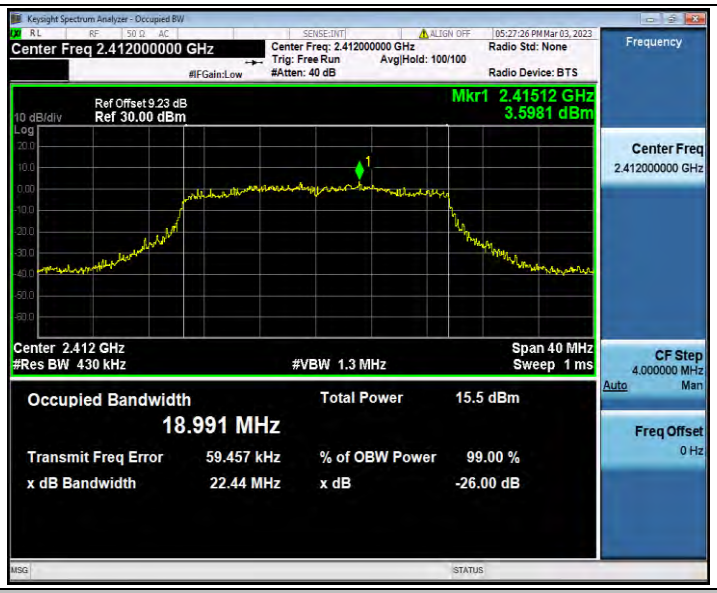
11N20SISO_Ant2_2462

11N40SISO_Ant2_2422

11N40SISO_Ant2_2437

11N40SISO_Ant2_2452

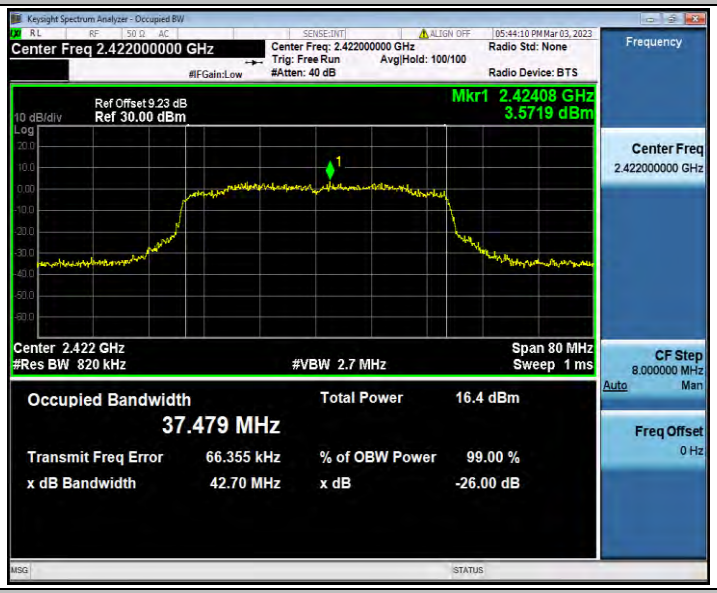
11AX20SISO_Ant2_2412



11AX20SISO_Ant2_2437

11AX20SISO_Ant2_2462

11AX40SISO_Ant2_2422



11AX40SISO_Ant2_2437

11AX40SISO_Ant2_2452

Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:INT
ALIGN OFF
05:54:26 PM Mar 03, 2023
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 9.35 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 2.45264 GHz
4.1853 dBm
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 820 kHz
#VBW 2.7 MHz
Span 80 MHz
Sweep 1 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
37.515 MHz
Total Power 17.5 dBm
Transmit Freq Error 122.10 kHz
% of OBW Power 99.00 %
x dB Bandwidth 43.08 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

Appendix C.3: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant2	2412	18.32	≤30.00	PASS
		2437	19.13	≤30.00	PASS
		2462	19.74	≤30.00	PASS
11G	Ant2	2412	22.17	≤30.00	PASS
		2437	20.27	≤30.00	PASS
		2462	20.84	≤30.00	PASS
11N20SISO	Ant2	2412	15.84	≤30.00	PASS
		2437	16.77	≤30.00	PASS
		2462	17.23	≤30.00	PASS
11N40SISO	Ant2	2422	16.27	≤30.00	PASS
		2437	16.98	≤30.00	PASS
		2452	17.38	≤30.00	PASS
11AX20SISO	Ant2	2412	16.28	≤30.00	PASS
		2437	17.14	≤30.00	PASS
		2462	17.59	≤30.00	PASS
11AX40SISO	Ant2	2422	16.51	≤30.00	PASS
		2437	17.08	≤30.00	PASS
		2452	17.48	≤30.00	PASS

Appendix C.4: Maximum power spectral density

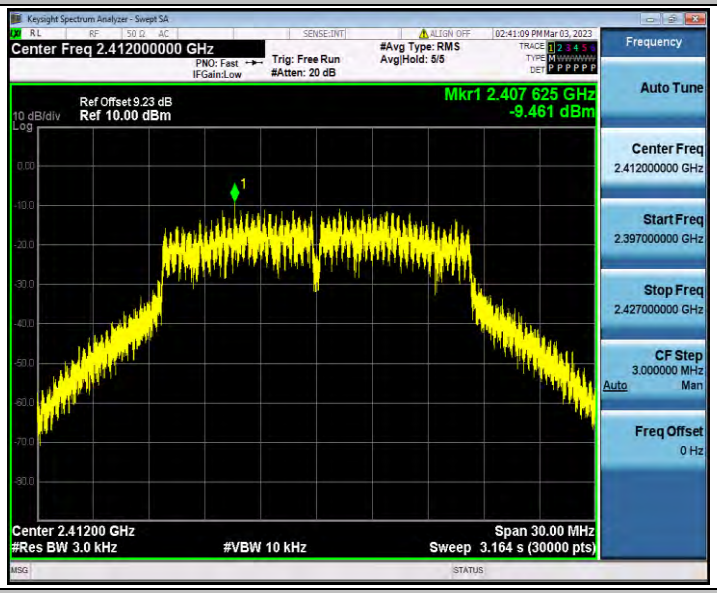
Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant2	2412	-8.06	≤8.00	PASS
		2437	-6.95	≤8.00	PASS
		2462	-5.86	≤8.00	PASS
11G	Ant2	2412	-9.46	≤8.00	PASS
		2437	-12.52	≤8.00	PASS
		2462	-11.33	≤8.00	PASS
11N20SISO	Ant2	2412	-15.39	≤8.00	PASS
		2437	-14.9	≤8.00	PASS
		2462	-14.52	≤8.00	PASS
11N40SISO	Ant2	2422	-18.27	≤8.00	PASS
		2437	-17.51	≤8.00	PASS
		2452	-17.11	≤8.00	PASS
11AX20SISO	Ant2	2412	-17.18	≤8.00	PASS
		2437	-15.34	≤8.00	PASS
		2462	-16.2	≤8.00	PASS
11AX40SISO	Ant2	2422	-20.22	≤8.00	PASS
		2437	-18.86	≤8.00	PASS
		2452	-18.96	≤8.00	PASS

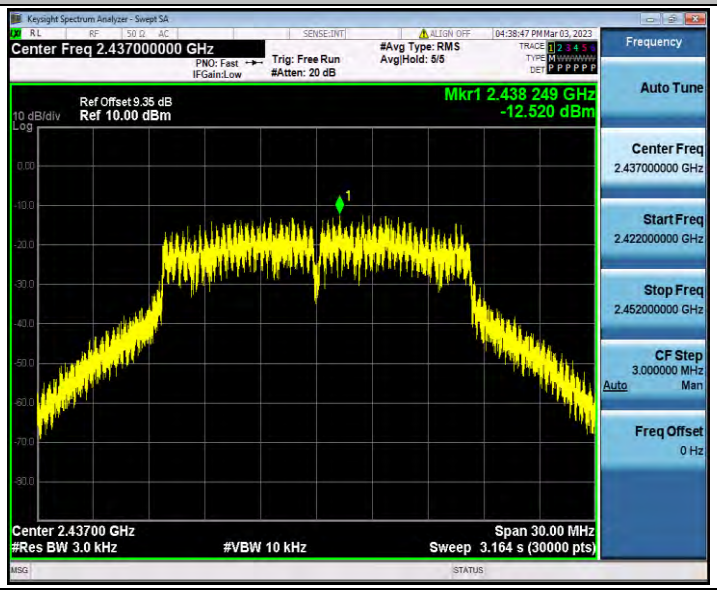
Test Graphs

11B_Ant2_2412
11B_Ant2_2437
11B_Ant2_2462

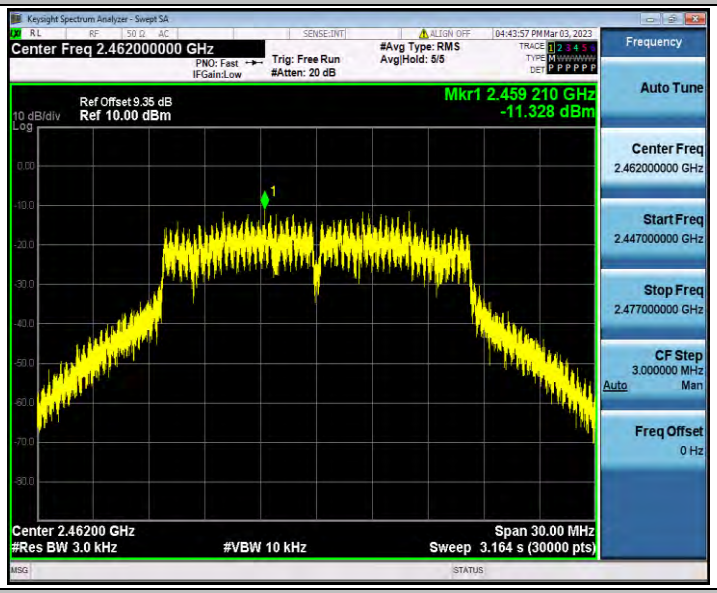
11G_Ant2_2412



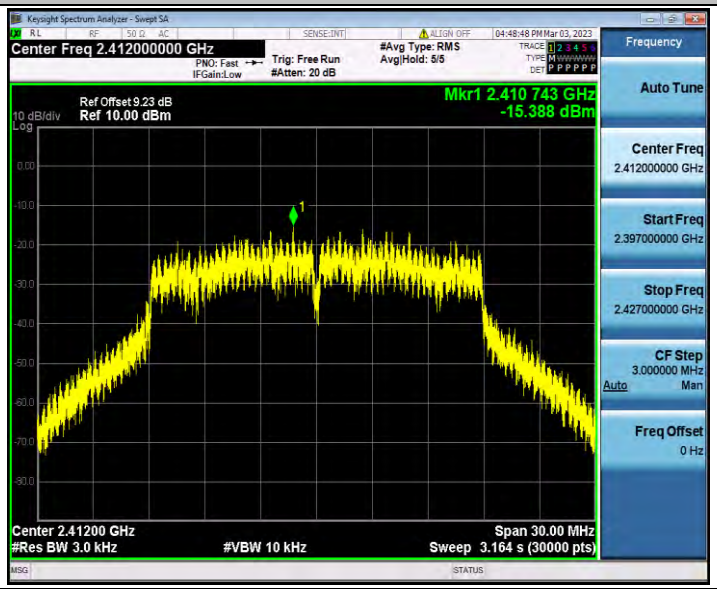
11G_Ant2_2437



11G_Ant2_2462



11N20SISO_Ant2_2412



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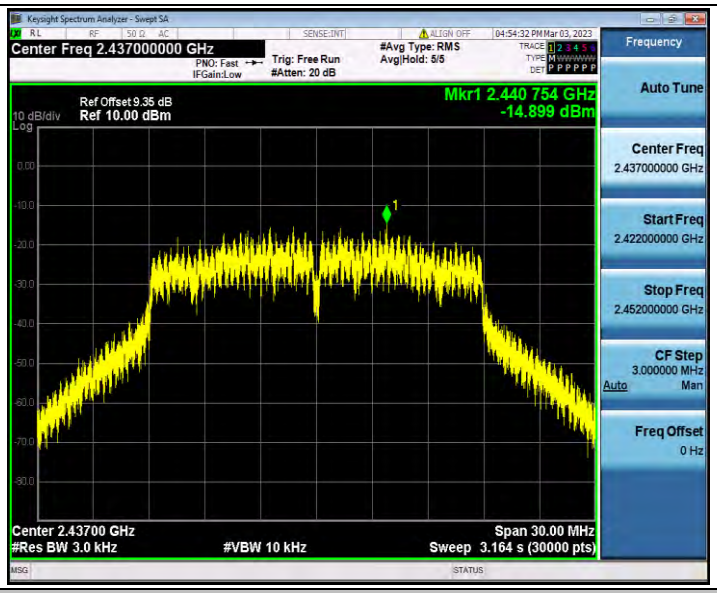
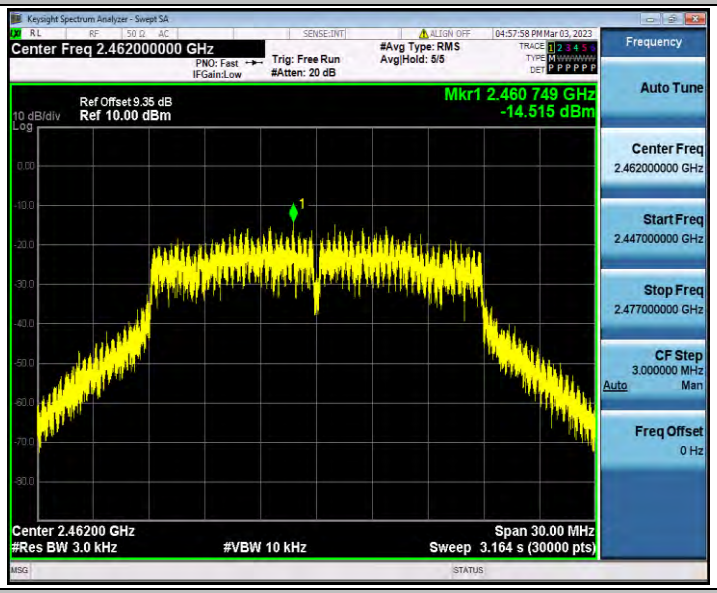
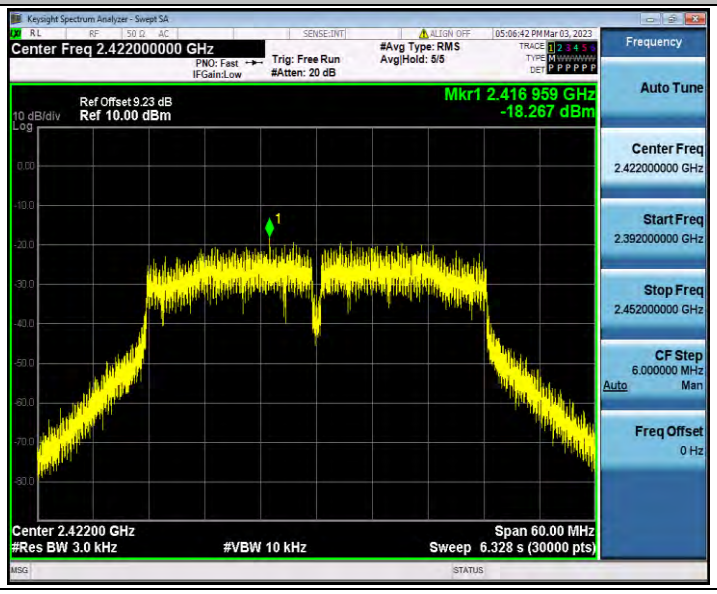


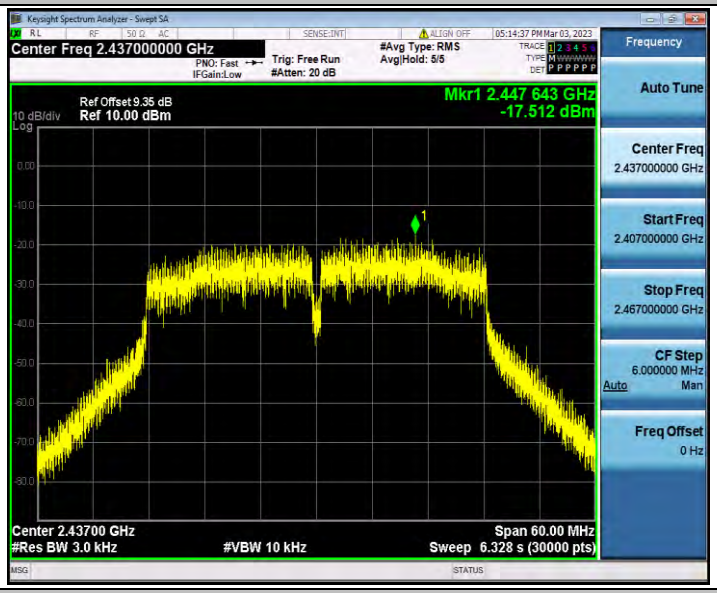
11N20SISO_Ant2_2462



11N40SISO_Ant2_2422



11N40SISO_Ant2_2437



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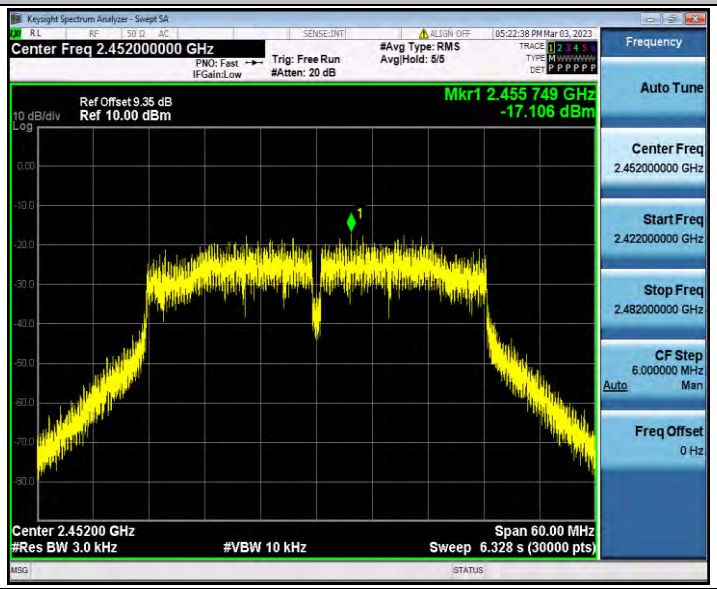
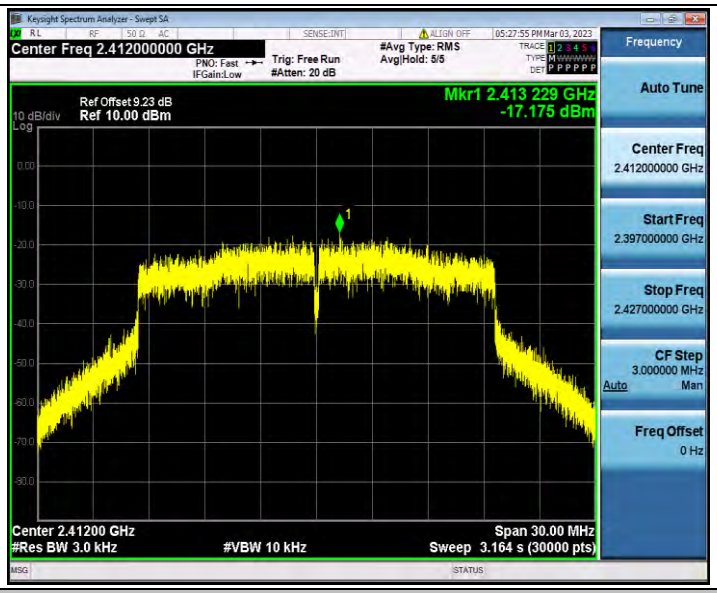
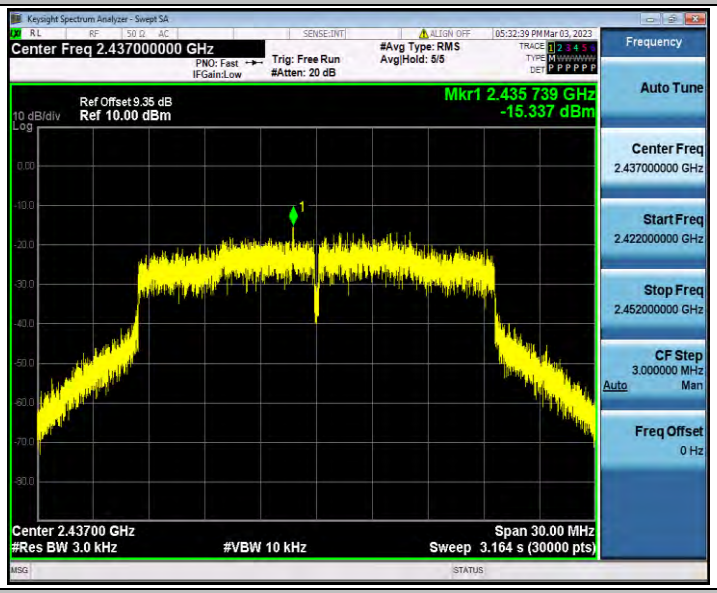


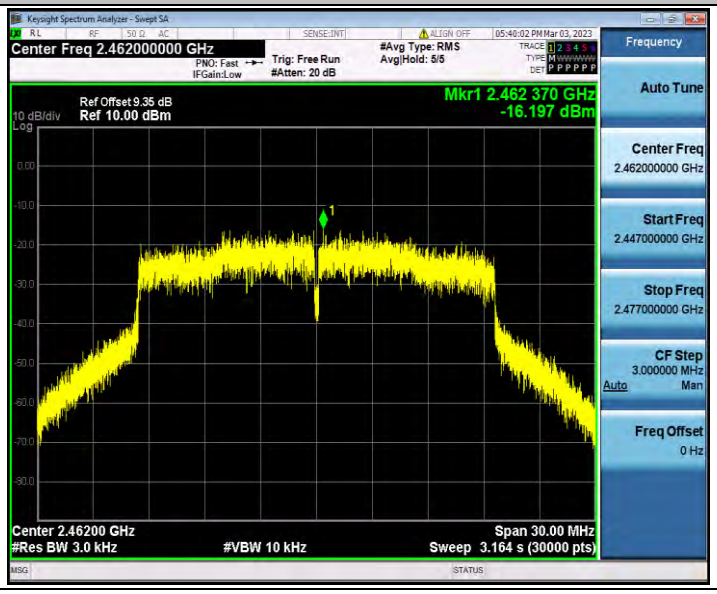
11AX20SISO_Ant2_2412



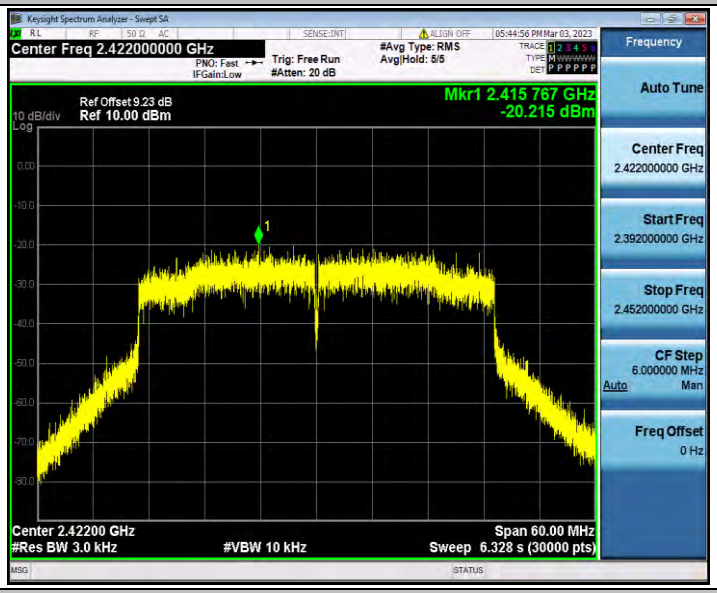
11AX20SISO_Ant2_2437



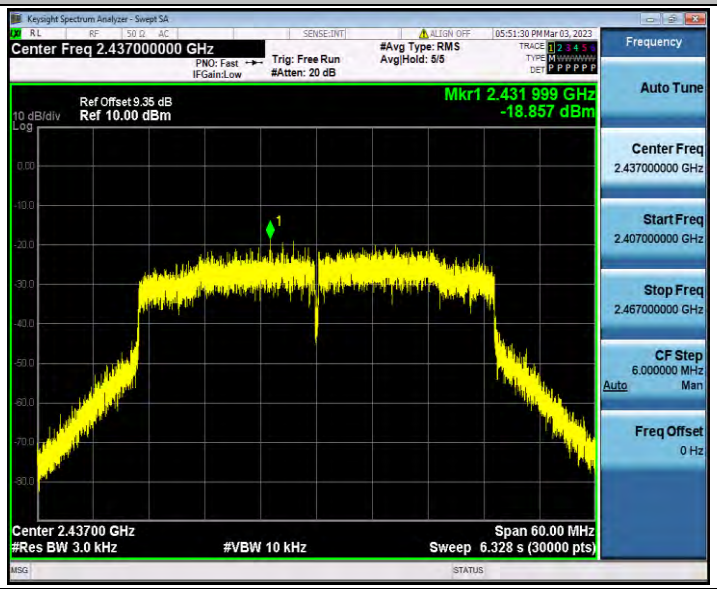
11AX20SISO_Ant2_2462



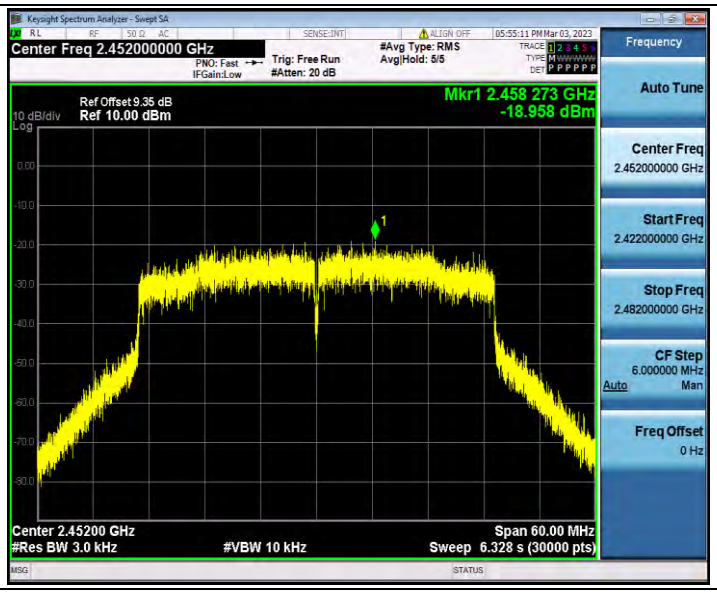
11AX40SISO_Ant2_2422



11AX40SISO_Ant2_2437



11AX40SISO_Ant2_2452


Keysight Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN OFF
05:55:11 PM Mar 03, 2023
Center Freq 2.452000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 5/5
TRACE 1 2 3 4 5 6
TYPE M
DET P P P P P
Frequency
Auto Tune
Mkr1 2.458 273 GHz
-18.958 dBm
Ref Offset 9.35 dB
10 dB/div
Ref 10.00 dBm
Log
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
1
Center Freq
2.452000000 GHz
Start Freq
2.422000000 GHz
Stop Freq
2.482000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz
Center 2.45200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 60.00 MHz
Sweep 6.328 s (30000 pts)
MSG
STATUS