Case No. : GTS20240604012-1-03	
Ambient Condition: 23 ℃, 50 %RH,	
Test Date: 2024.12.31	**Test Engineer:** Evan ouyang

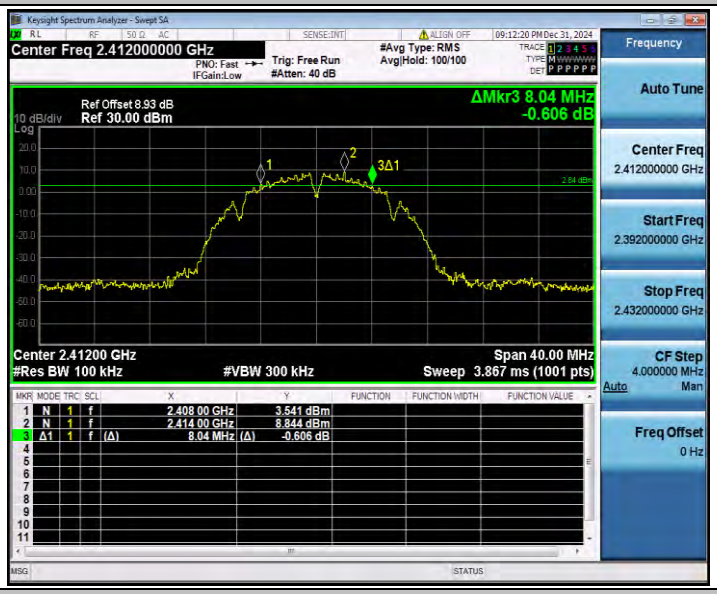
Appendix C.1: DTS Bandwidth

Test Result

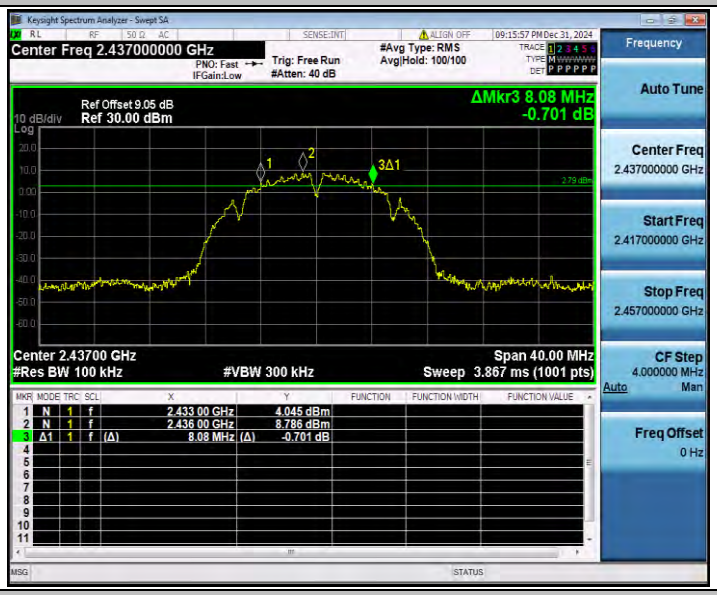
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.040	2408.000	2416.040	0.5	PASS
		2437	8.080	2433.000	2441.080	0.5	PASS
		2462	8.040	2458.000	2466.040	0.5	PASS
11G	Ant1	2412	15.160	2404.440	2419.600	0.5	PASS
		2437	15.160	2429.440	2444.600	0.5	PASS
		2462	15.160	2454.440	2469.600	0.5	PASS
11N20SISO	Ant1	2412	16.680	2403.840	2420.520	0.5	PASS
		2437	16.920	2428.880	2445.800	0.5	PASS
		2462	16.640	2453.880	2470.520	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.280	2434.480	2469.760	0.5	PASS
11AX20SISO	Ant1	2412	17.400	2403.640	2421.040	0.5	PASS
		2437	17.640	2428.280	2445.920	0.5	PASS
		2462	17.760	2453.280	2471.040	0.5	PASS
11AX40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.280	2419.480	2454.760	0.5	PASS
		2452	35.600	2434.480	2470.080	0.5	PASS

Test Graphs

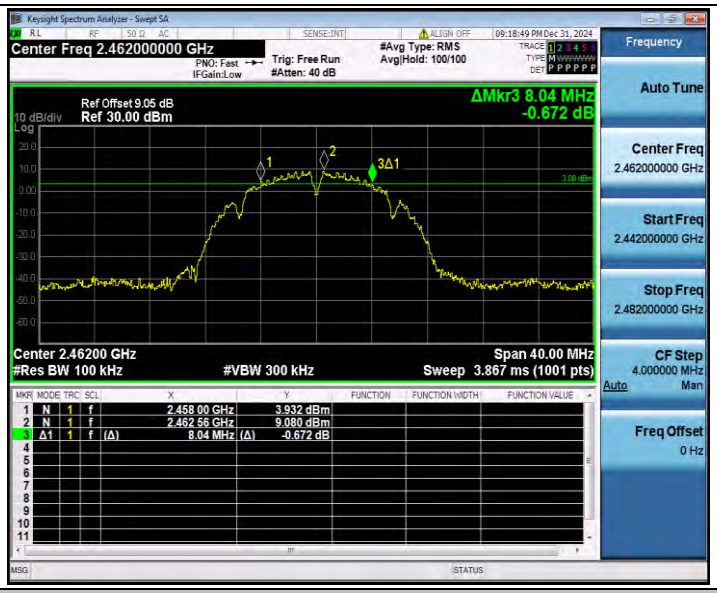
11B_Ant1_2412



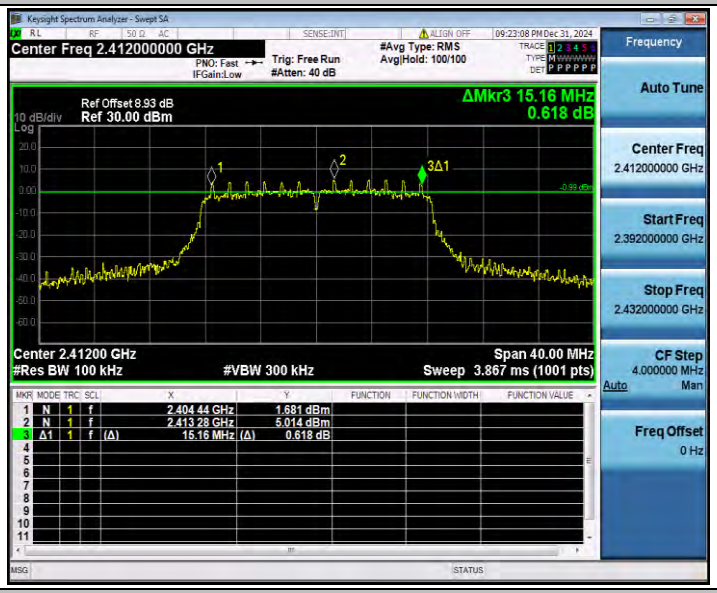
11B_Ant1_2437



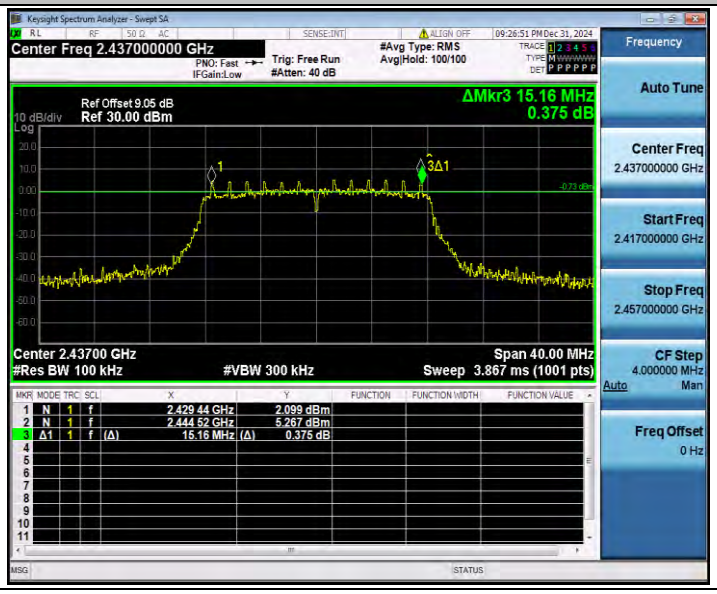
11B_Ant1_2462



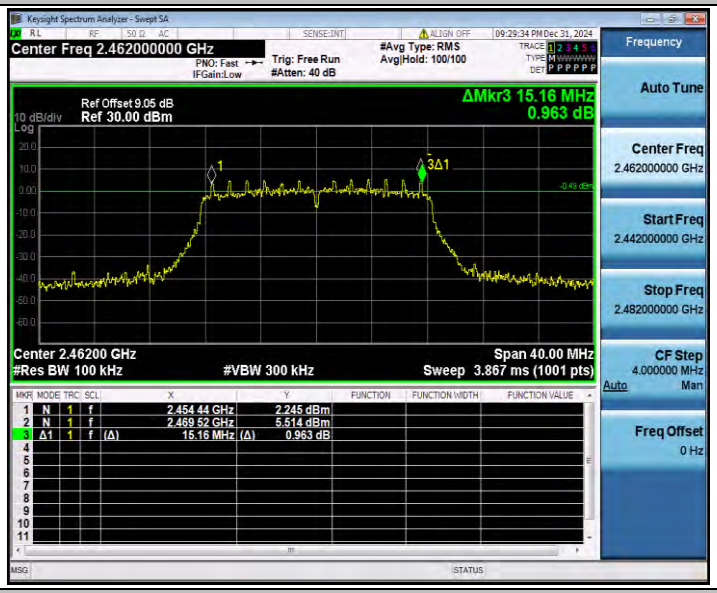
11G_Ant1_2412



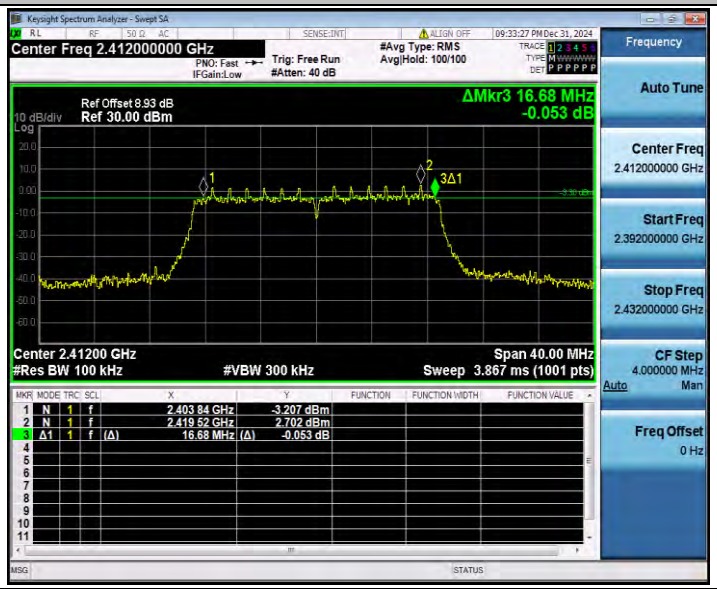
11G_Ant1_2437



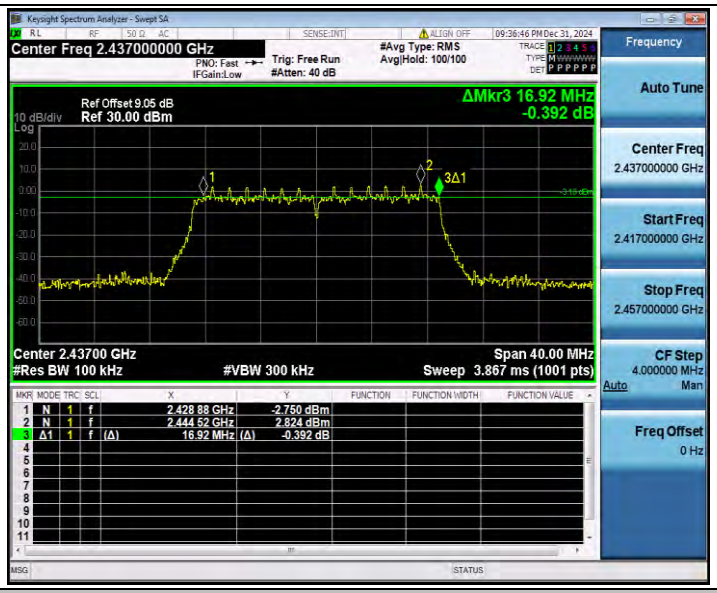
11G_Ant1_2462



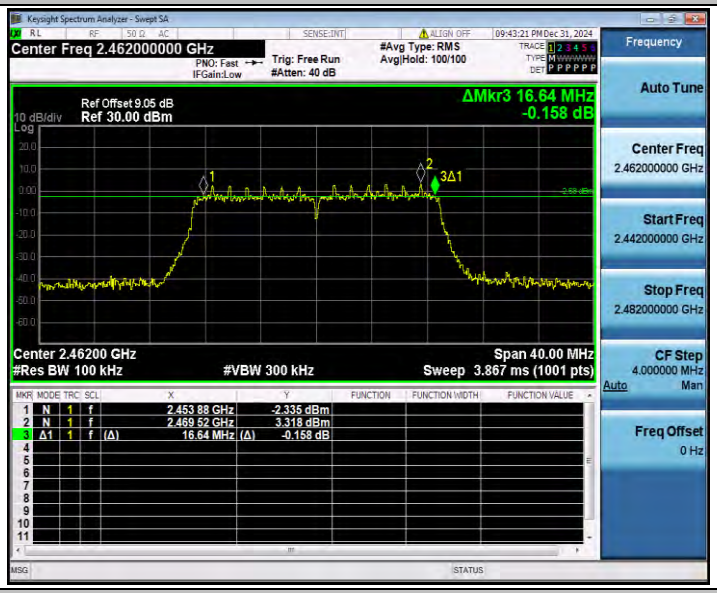
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



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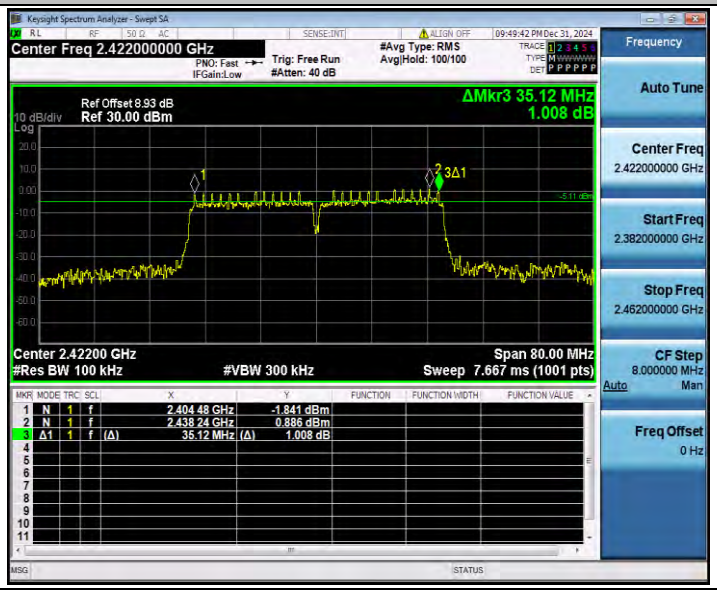

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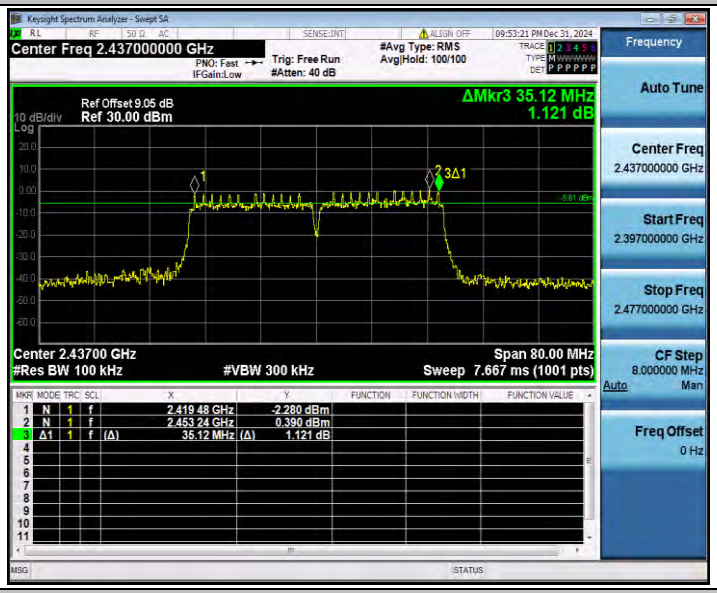
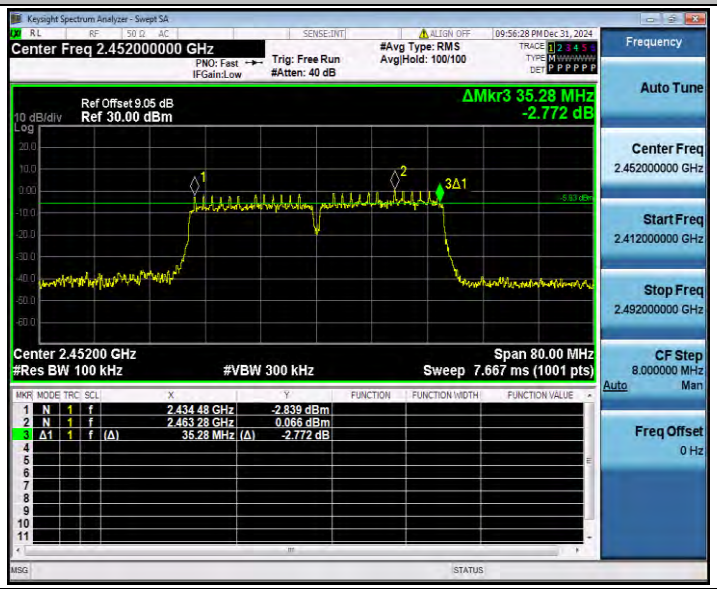
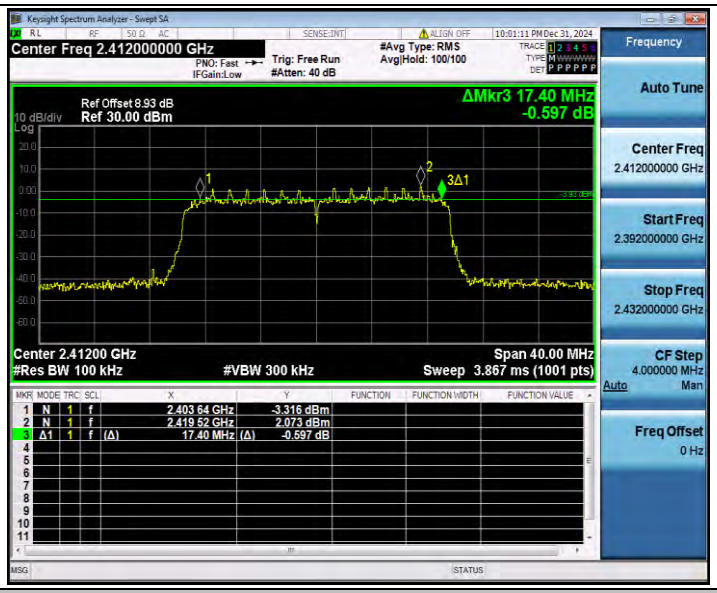


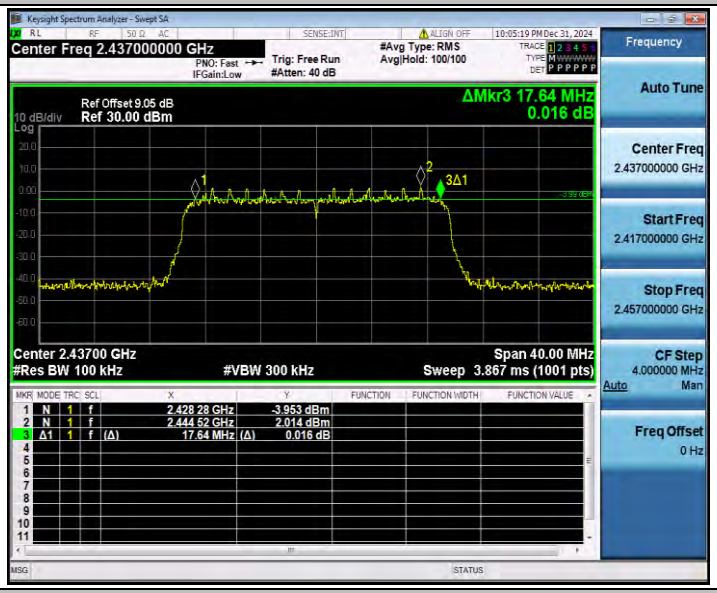
11N40SISO_Ant1_2452



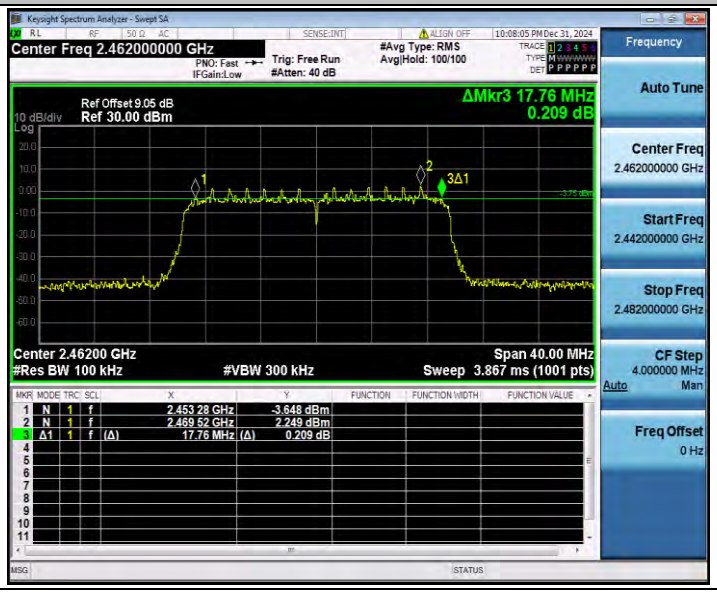
11AX20SISO_Ant1_2412



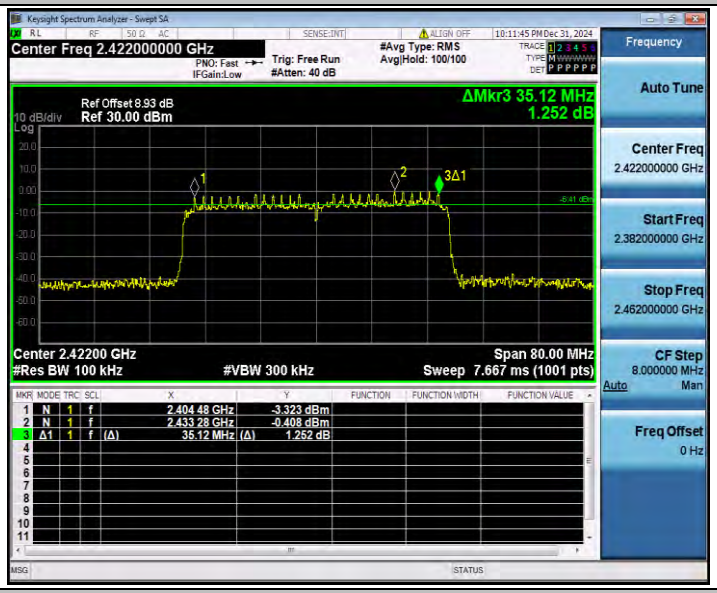
11AX20SISO_Ant1_2437



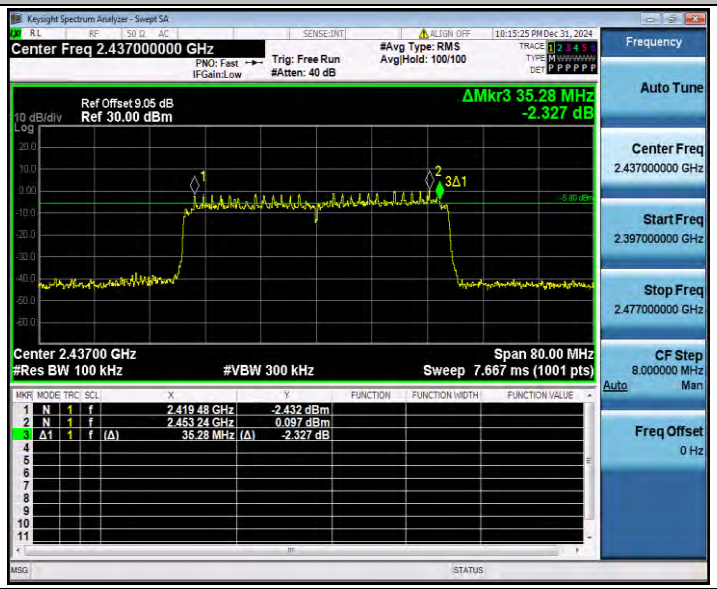
11AX20SISO_Ant1_2462



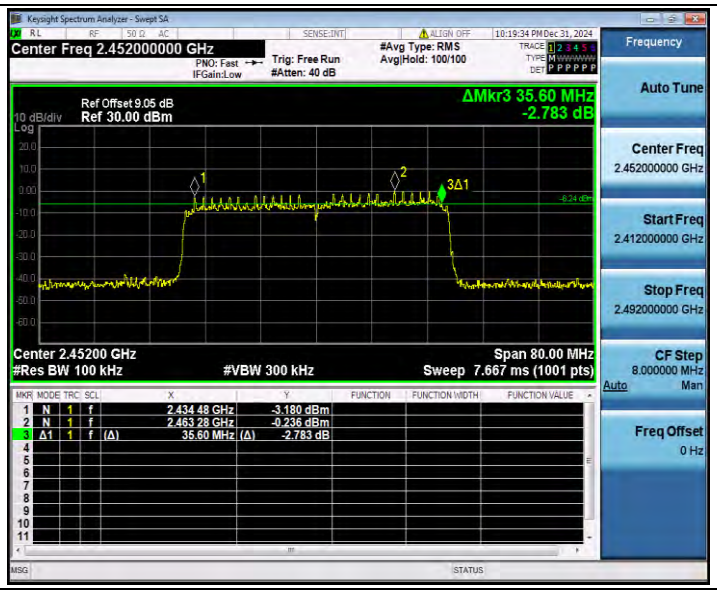
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_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
10:19:34 PM Dec 31, 2024
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
Ref Offset 9.05 dB
10 dB/div
Ref 30.00 dBm
Log
ΔMkr3 35.60 MHz
-2.783 dB
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 -3.180 dBm
2 N 1 f 2.463 28 GHz -0.236 dBm
3 Δ1 1 f (Δ) 35.60 MHz (Δ) -2.783 dB

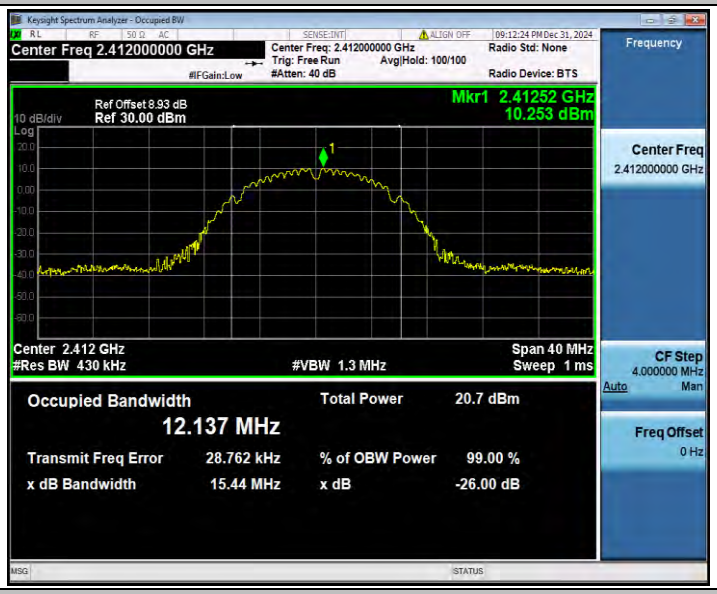
Appendix C.2: Occupied Channel Bandwidth

Test Result

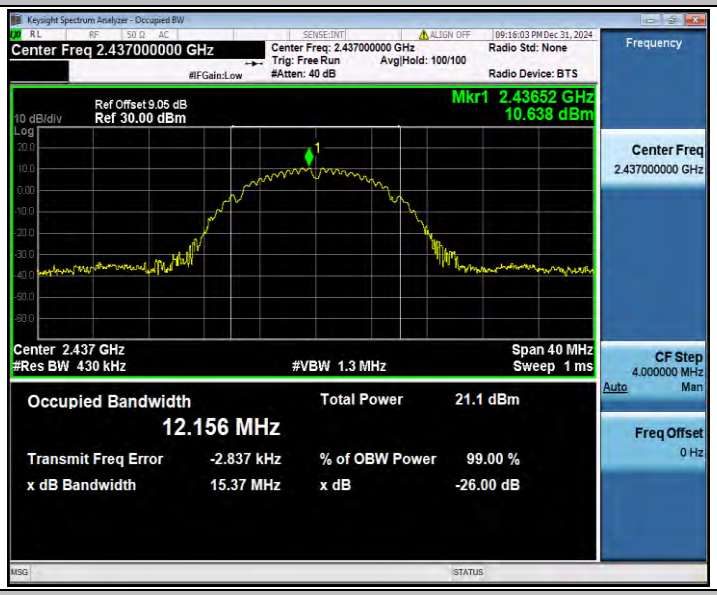
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.137	2405.9603	2418.0973	---	---
		2437	12.156	2430.9192	2443.0752	---	---
		2462	12.079	2455.9655	2468.0445	---	---
11G	Ant1	2412	16.530	2403.7970	2420.3270	---	---
		2437	16.520	2428.8101	2445.3301	---	---
		2462	16.532	2453.8203	2470.3523	---	---
11N20SISO	Ant1	2412	17.757	2403.1871	2420.9441	---	---
		2437	17.776	2428.1582	2445.9342	---	---
		2462	17.711	2453.1976	2470.9086	---	---
11N40SISO	Ant1	2422	36.235	2404.0525	2440.2875	---	---
		2437	36.264	2419.0042	2455.2682	---	---
		2452	36.213	2434.0275	2470.2405	---	---
11AX20SISO	Ant1	2412	18.710	2402.7089	2421.4189	---	---
		2437	18.763	2427.6214	2446.3844	---	---
		2462	18.774	2452.6893	2471.4633	---	---
11AX40SISO	Ant1	2422	37.131	2403.6482	2440.7792	---	---
		2437	37.256	2418.5821	2455.8381	---	---
		2452	37.419	2433.4861	2470.9051	---	---

Test Graphs

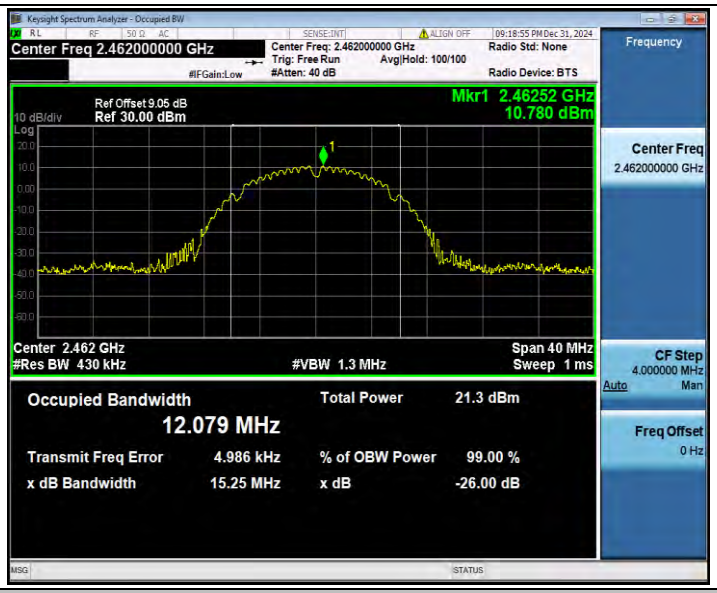
11B_Ant1_2412



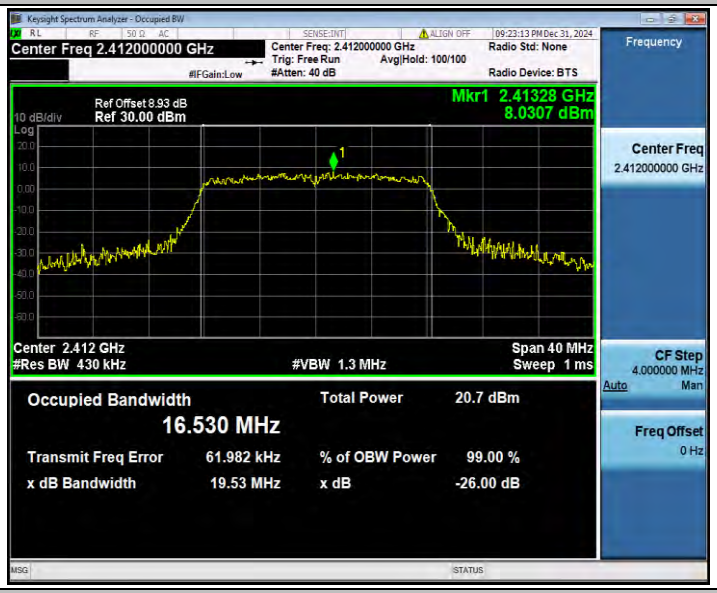
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412

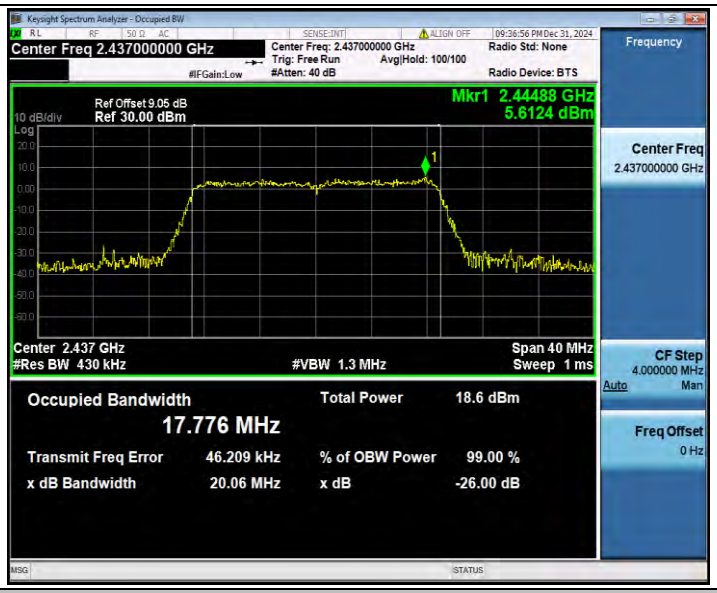


11G_Ant1_2437

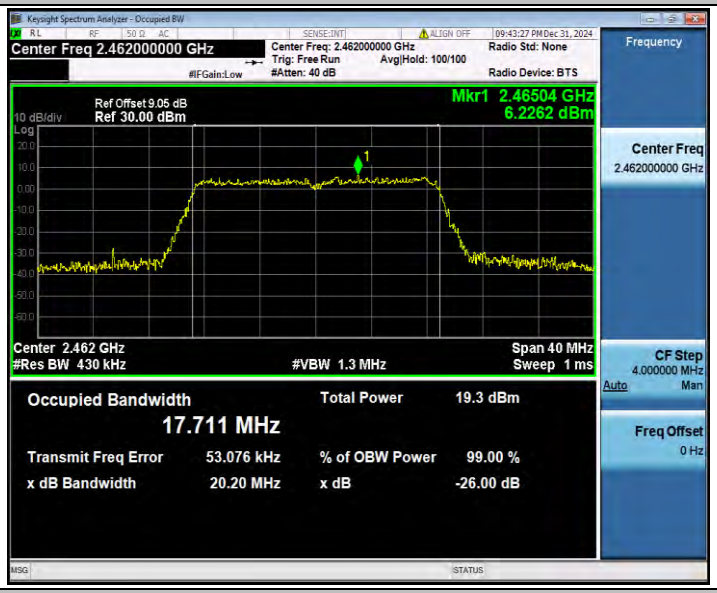
11G_Ant1_2462

11N20SISO_Ant1_2412

11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

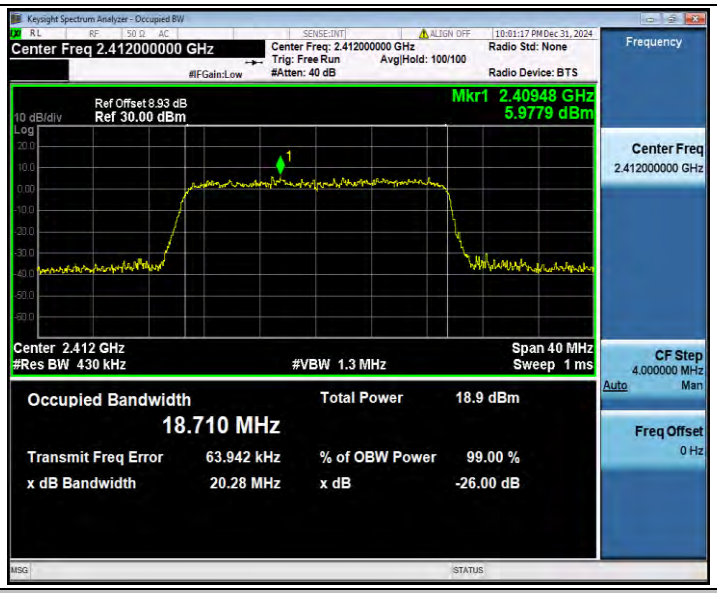


11N40SISO_Ant1_2422

11N40SISO_Ant1_2437

11N40SISO_Ant1_2452

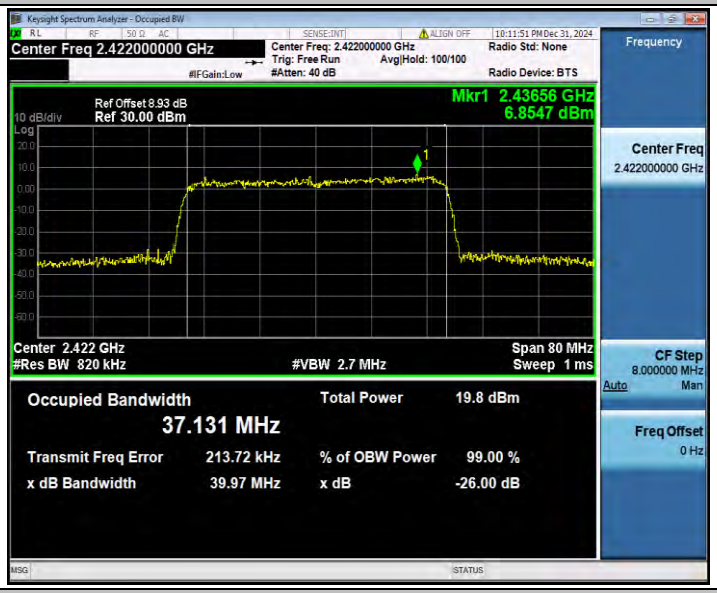
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437

11AX20SISO_Ant1_2462

11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437

11AX40SISO_Ant1_2452

Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 9.05 dB
10 dB/div
Ref 30.00 dBm
Mkr1 2.4652 GHz
6.6497 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
37.419 MHz
Total Power 19.6 dBm
Transmit Freq Error 195.61 kHz
% of OBW Power 99.00 %
x dB Bandwidth 39.90 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

Appendix C.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	20.76	≤30.00	PASS
		2437	21.16	≤30.00	PASS
		2462	21.34	≤30.00	PASS
11G	Ant1	2412	21.69	≤30.00	PASS
		2437	21.73	≤30.00	PASS
		2462	22.27	≤30.00	PASS
11N20SISO	Ant1	2412	19.60	≤30.00	PASS
		2437	19.64	≤30.00	PASS
		2462	20.11	≤30.00	PASS
11N40SISO	Ant1	2422	20.61	≤30.00	PASS
		2437	19.90	≤30.00	PASS
		2452	19.60	≤30.00	PASS
11AX20SISO	Ant1	2412	19.67	≤30.00	PASS
		2437	19.76	≤30.00	PASS
		2462	20.03	≤30.00	PASS
11AX40SISO	Ant1	2422	19.92	≤30.00	PASS
		2437	20.15	≤30.00	PASS
		2452	19.93	≤30.00	PASS

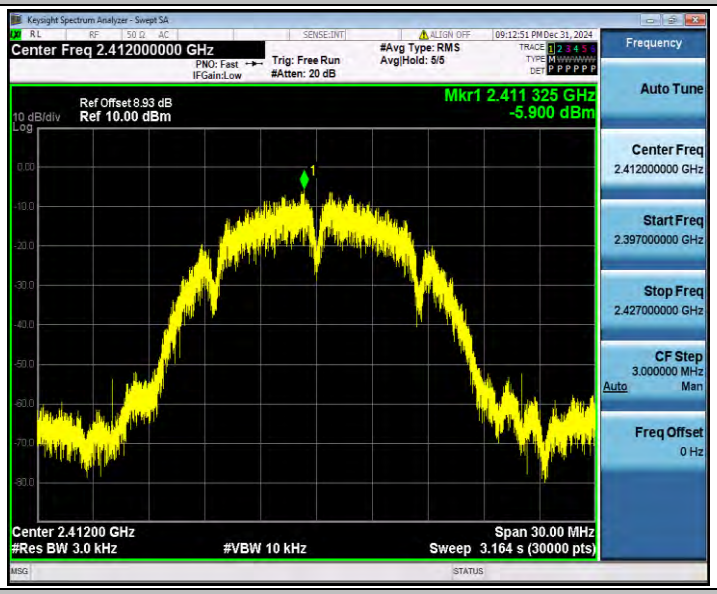
Appendix C.4: Maximum power spectral density

Test Result

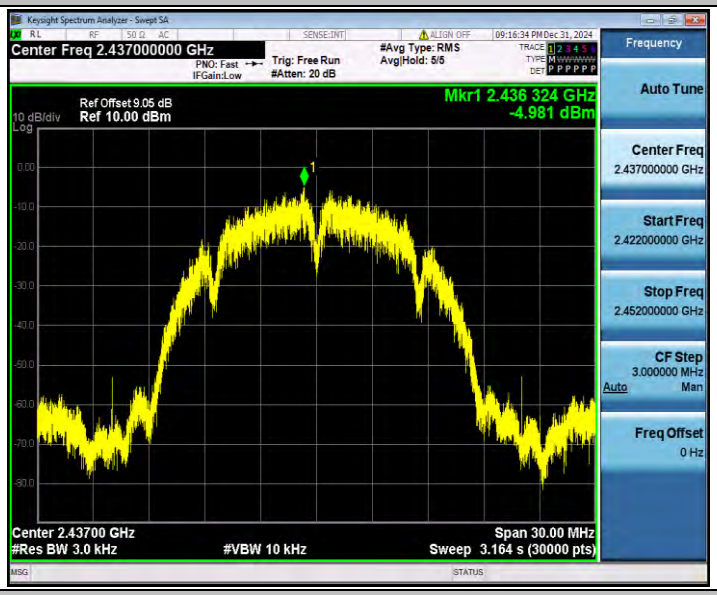
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.90	≤8.00	PASS
		2437	-4.98	≤8.00	PASS
		2462	-4.90	≤8.00	PASS
11G	Ant1	2412	-10.59	≤8.00	PASS
		2437	-11.66	≤8.00	PASS
		2462	-10.98	≤8.00	PASS
11N20SISO	Ant1	2412	-13.24	≤8.00	PASS
		2437	-13.51	≤8.00	PASS
		2462	-12.87	≤8.00	PASS
11N40SISO	Ant1	2422	-13.98	≤8.00	PASS
		2437	-14.63	≤8.00	PASS
		2452	-15.74	≤8.00	PASS
11AX20SISO	Ant1	2412	-14.72	≤8.00	PASS
		2437	-14.27	≤8.00	PASS
		2462	-14.54	≤8.00	PASS
11AX40SISO	Ant1	2422	-15.45	≤8.00	PASS
		2437	-14.42	≤8.00	PASS
		2452	-15.13	≤8.00	PASS

Test Graphs

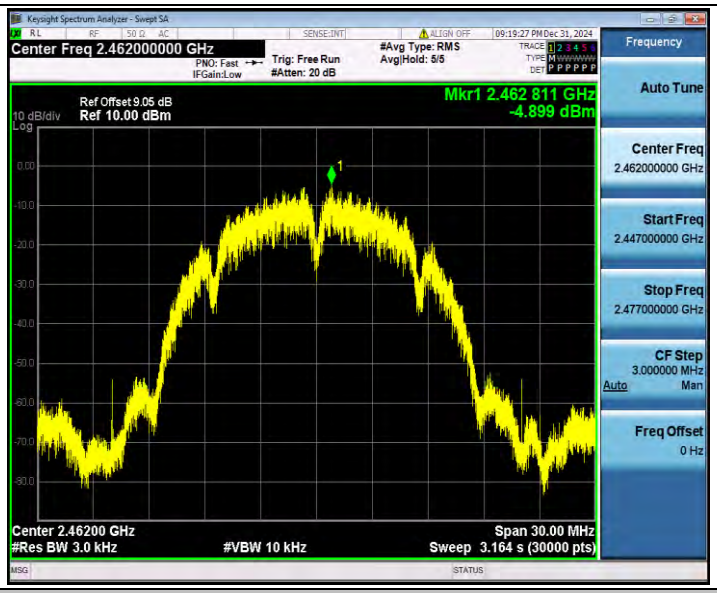
11B_Ant1_2412



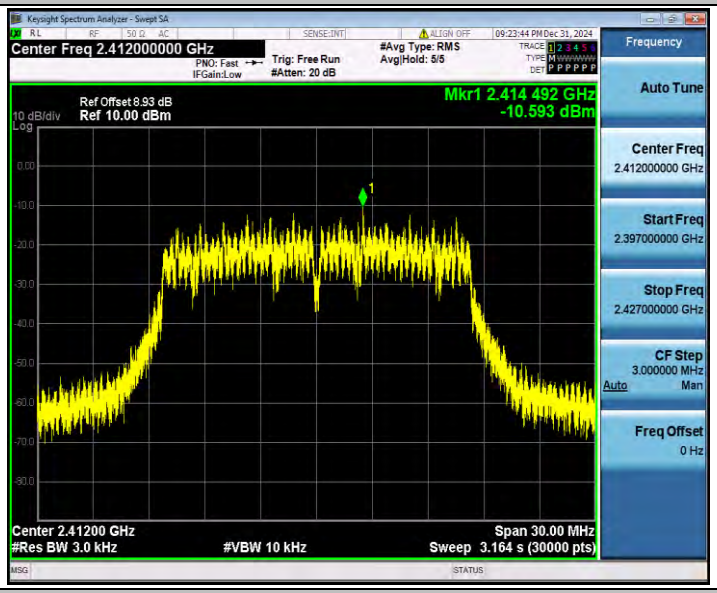
11B_Ant1_2437



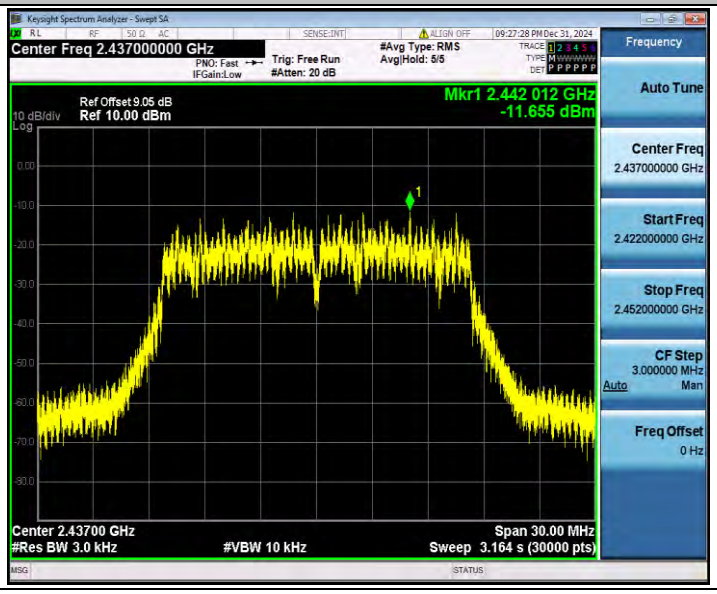
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



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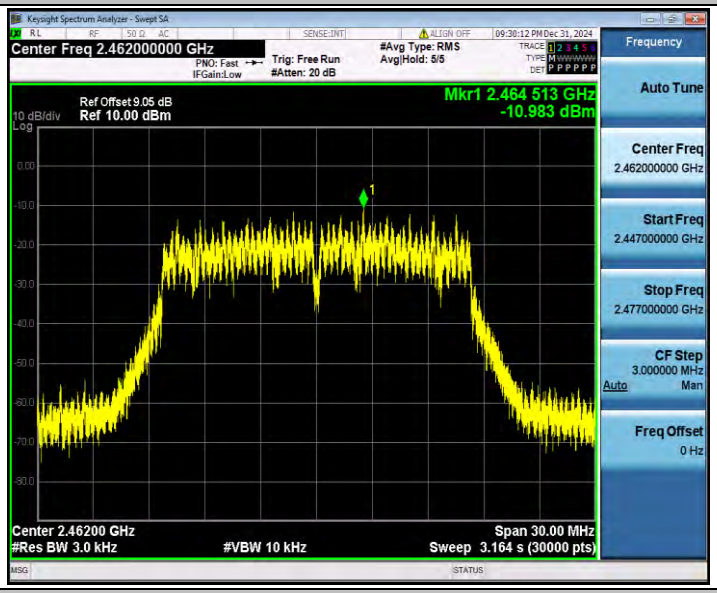
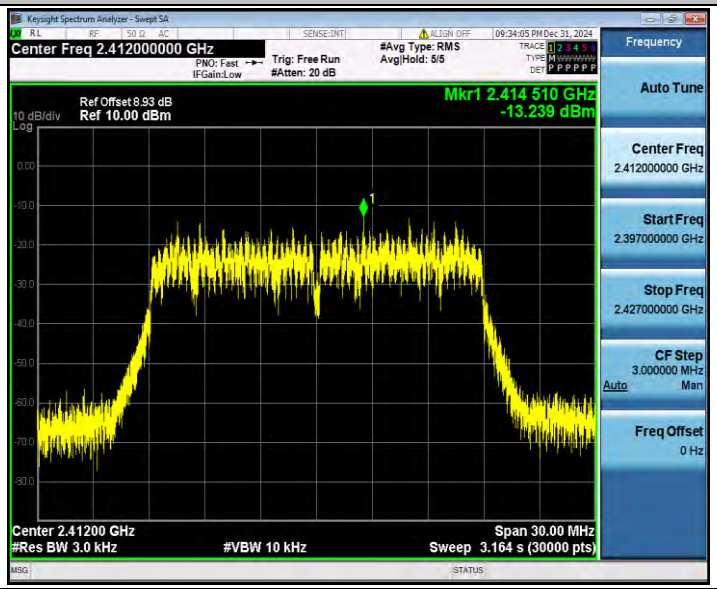
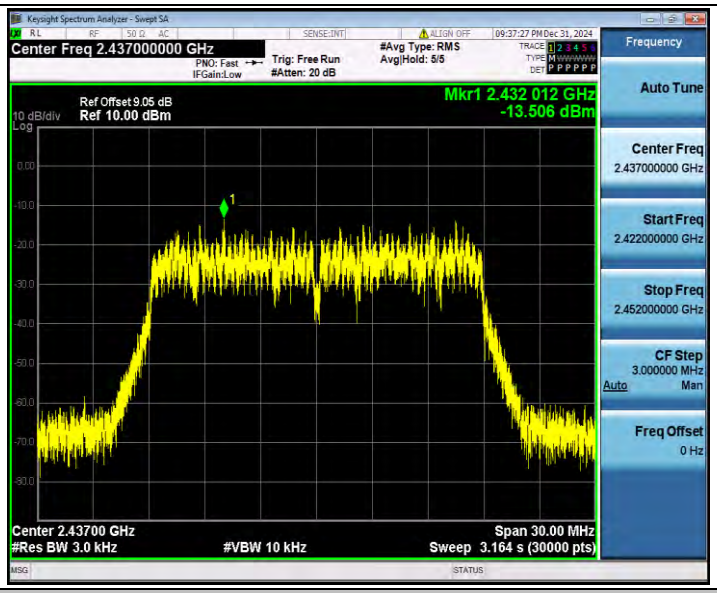


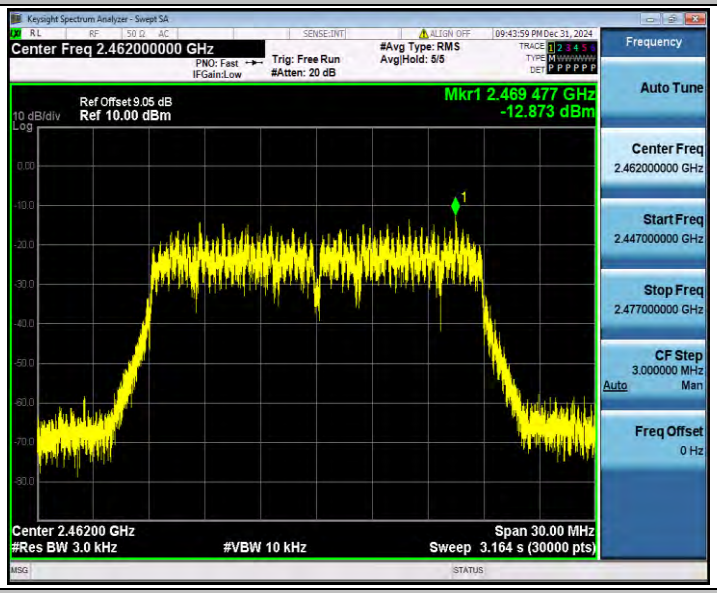
11N20SISO_Ant1_2412



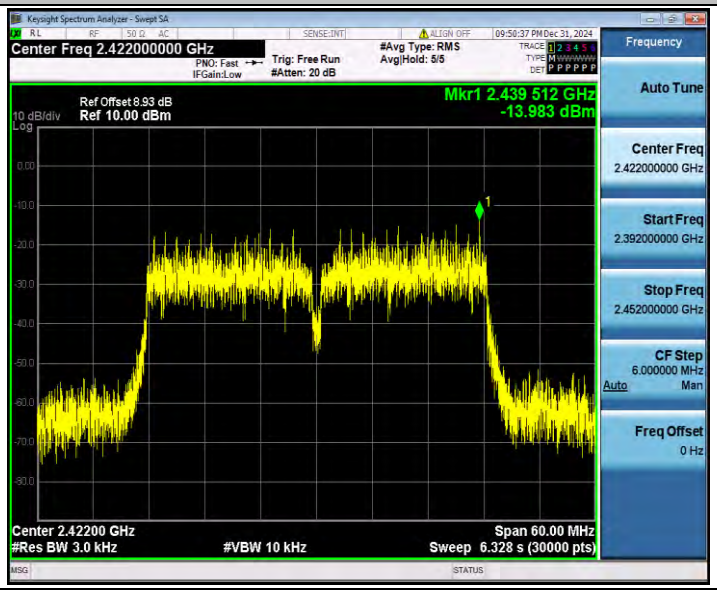
11N20SISO_Ant1_2437



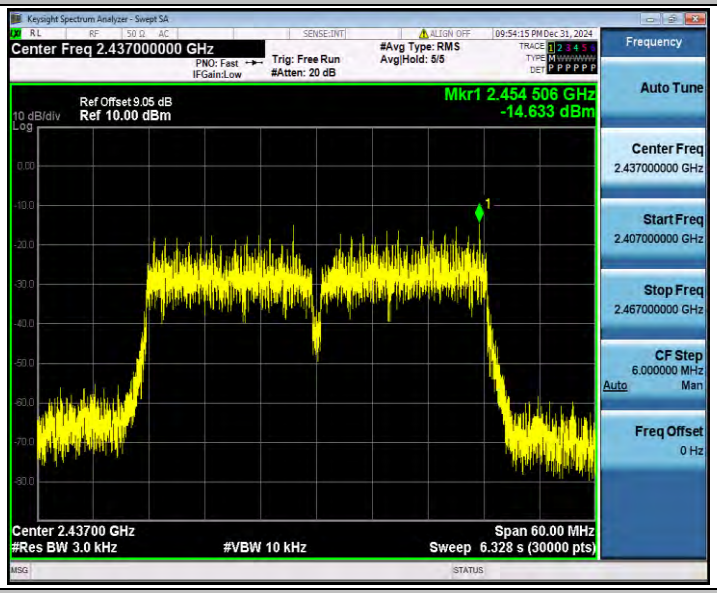
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



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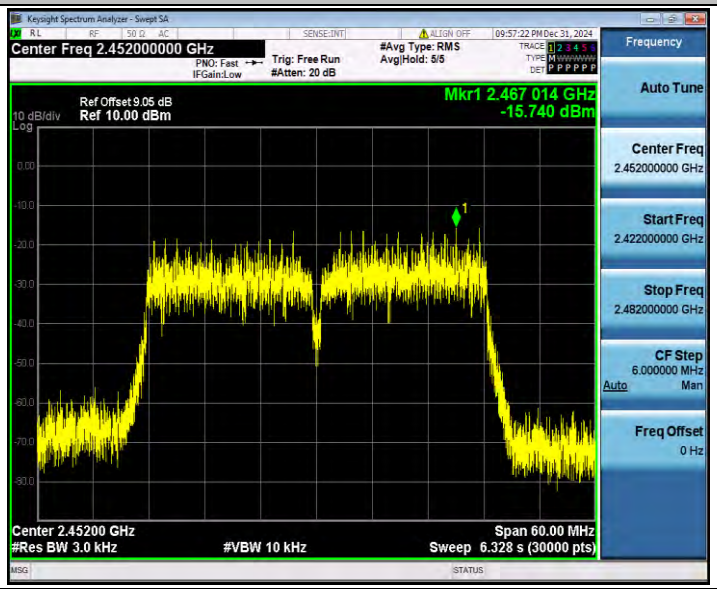

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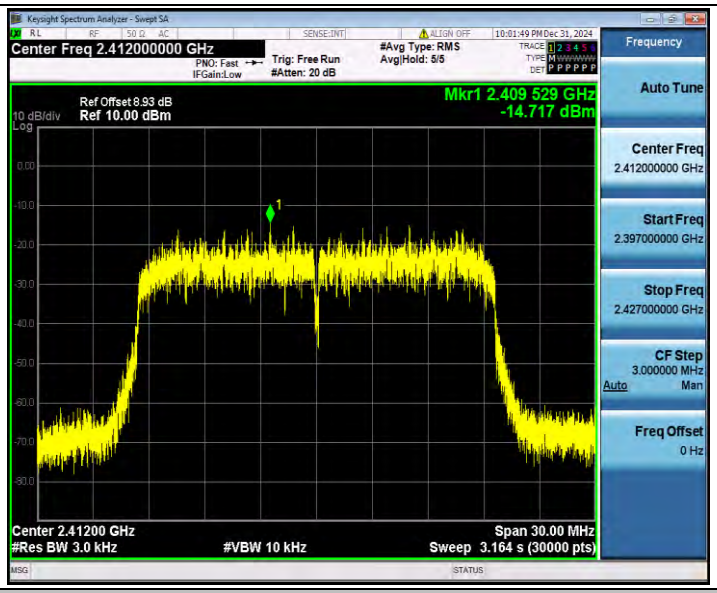

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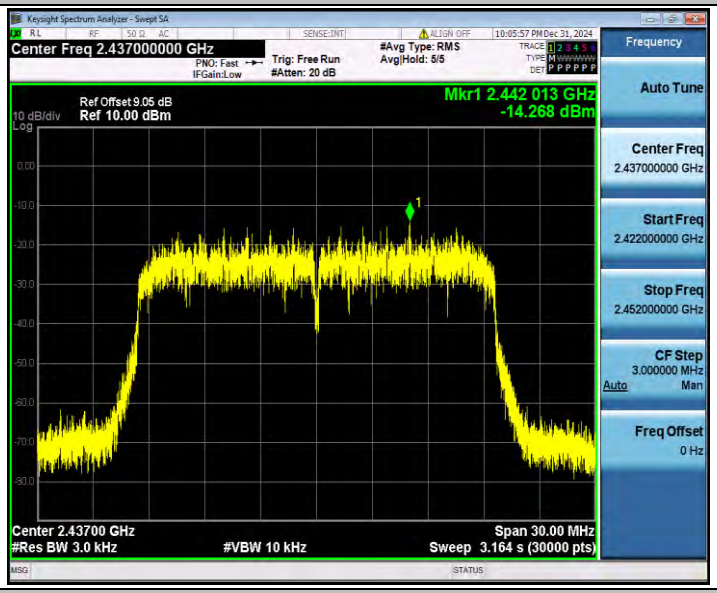

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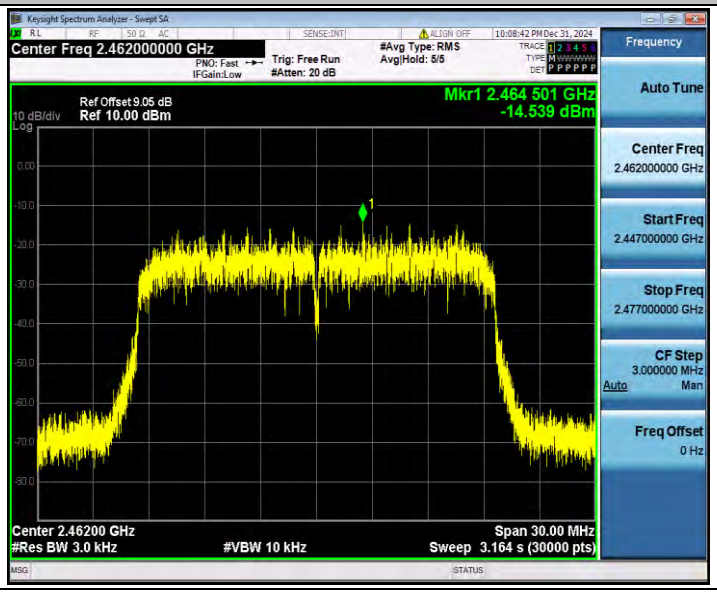

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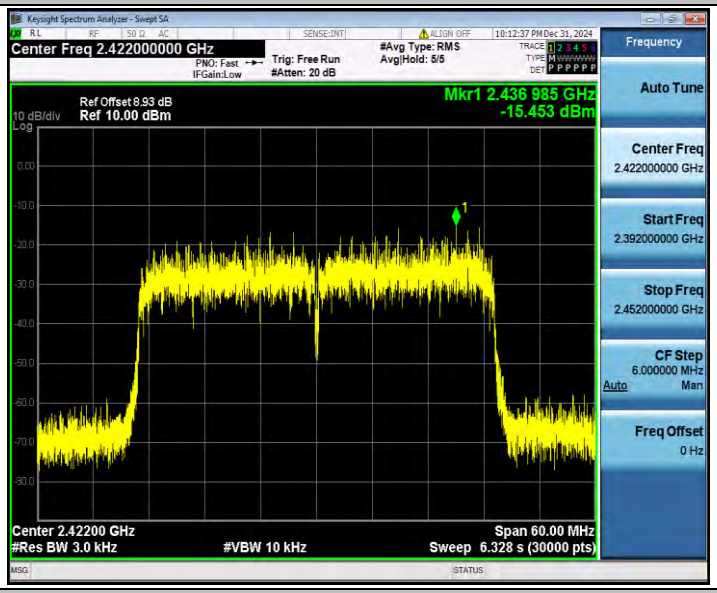

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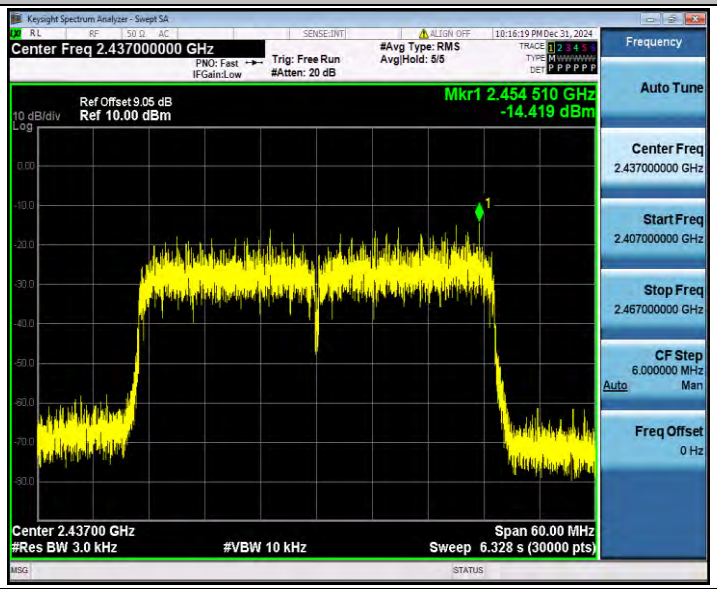

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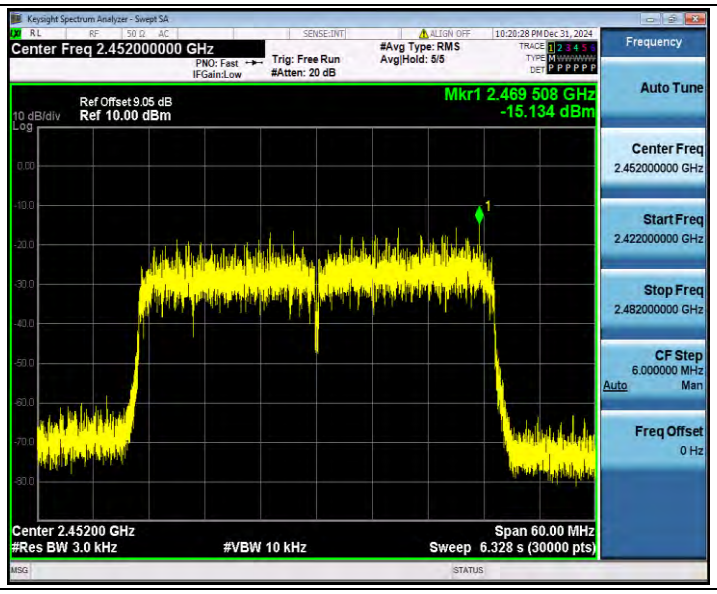
Keysight Spectrum Analyzer - Swept SA
Center Freq 2.452000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
#Avg Type: RMS
Avg|Hold: 5/5
Ref Offset 9.05 dB
10 dB/div
Ref 10.00 dBm
Log
Mkr1 2.469 508 GHz
-15.134 dBm
Center 2.45200 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 60.00 MHz
Sweep 6.328 s (30000 pts)
Frequency
Auto Tune
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