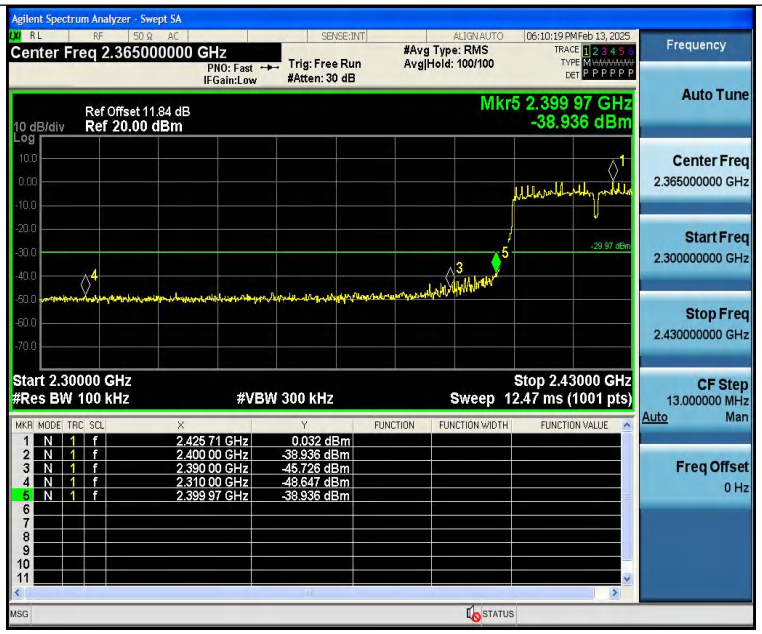
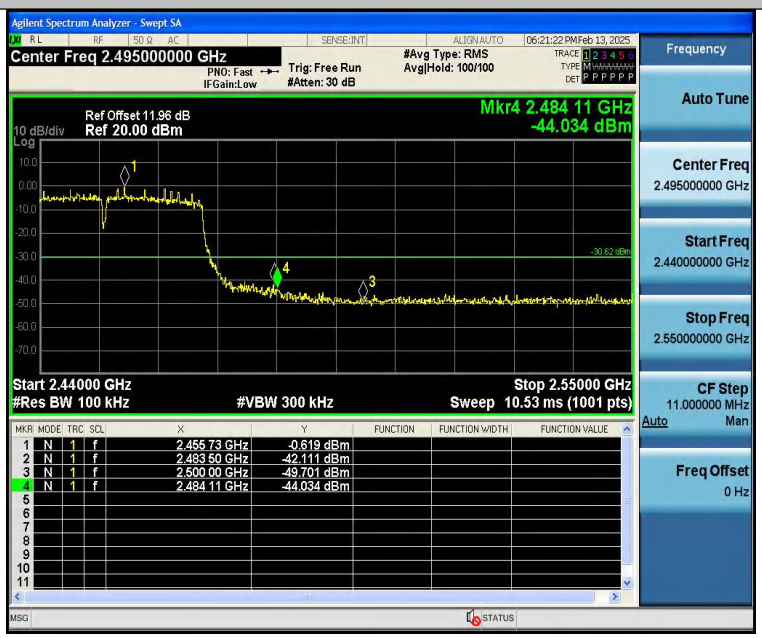


11N40SISO-Ant5-2452-PASS



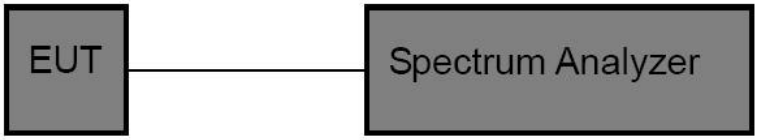
9 6dB Bandwidth Measurement

Test Requirement	:	FCC CFR47 Part 15 Section 15.247
Test Method	:	ANSI C63.10:2013
Test Limit		Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

9.1Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

9.2Test Setup



9.3Test Result

Ant0:

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	10.040	2407.000	2417.040	0.5	PASS
11B	Ant0	2437	10.040	2431.960	2442.000	0.5	PASS
11B	Ant0	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant0	2412	15.880	2403.880	2419.760	0.5	PASS
11G	Ant0	2437	15.880	2428.880	2444.760	0.5	PASS
11G	Ant0	2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant0	2412	16.600	2403.520	2420.120	0.5	PASS
11N20SISO	Ant0	2437	16.720	2428.640	2445.360	0.5	PASS
11N20SISO	Ant0	2462	16.040	2454.120	2470.160	0.5	PASS
11N40SISO	Ant0	2422	35.200	2404.480	2439.680	0.5	PASS
11N40SISO	Ant0	2437	35.200	2419.560	2454.760	0.5	PASS
11N40SISO	Ant0	2452	35.280	2434.480	2469.760	0.5	PASS

Ant1:

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant1	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant1	2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant1	2412	15.960	2403.840	2419.800	0.5	PASS
11G	Ant1	2437	15.880	2428.880	2444.760	0.5	PASS
11G	Ant1	2462	16.160	2454.000	2470.160	0.5	PASS
11N20SISO	Ant1	2412	15.960	2403.600	2419.560	0.5	PASS

11N20SISO	Ant1	2437	17.520	2428.240	2445.760	0.5	PASS
11N20SISO	Ant1	2462	15.200	2454.720	2469.920	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.080	2439.600	0.5	PASS
11N40SISO	Ant1	2437	35.120	2419.480	2454.600	0.5	PASS
11N40SISO	Ant1	2452	35.200	2434.560	2469.760	0.5	PASS

Ant2:

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant2	2412	11.080	2406.000	2417.080	0.5	PASS
11B	Ant2	2437	10.120	2431.920	2442.040	0.5	PASS
11B	Ant2	2462	10.120	2456.920	2467.040	0.5	PASS
11G	Ant2	2412	15.520	2404.240	2419.760	0.5	PASS
11G	Ant2	2437	15.600	2429.240	2444.840	0.5	PASS
11G	Ant2	2462	16.080	2454.080	2470.160	0.5	PASS
11N20SISO	Ant2	2412	16.400	2404.120	2420.520	0.5	PASS
11N20SISO	Ant2	2437	16.240	2429.240	2445.480	0.5	PASS
11N20SISO	Ant2	2462	16.920	2453.840	2470.760	0.5	PASS
11N40SISO	Ant2	2422	32.800	2406.960	2439.760	0.5	PASS
11N40SISO	Ant2	2437	35.280	2419.480	2454.760	0.5	PASS
11N40SISO	Ant2	2452	35.280	2434.400	2469.680	0.5	PASS

Ant3:

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant3	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant3	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant3	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant3	2412	15.920	2403.880	2419.800	0.5	PASS
11G	Ant3	2437	15.600	2429.280	2444.880	0.5	PASS
11G	Ant3	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant3	2412	17.040	2403.480	2420.520	0.5	PASS
11N20SISO	Ant3	2437	15.520	2429.240	2444.760	0.5	PASS
11N20SISO	Ant3	2462	16.880	2453.520	2470.400	0.5	PASS
11N40SISO	Ant3	2422	35.040	2404.480	2439.520	0.5	PASS
11N40SISO	Ant3	2437	33.840	2420.680	2454.520	0.5	PASS
11N40SISO	Ant3	2452	35.040	2434.480	2469.520	0.5	PASS

Ant4:

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant4	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant4	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant4	2462	10.040	2457.000	2467.040	0.5	PASS
11G	Ant4	2412	15.960	2403.840	2419.800	0.5	PASS
11G	Ant4	2437	15.880	2428.880	2444.760	0.5	PASS
11G	Ant4	2462	16.160	2454.000	2470.160	0.5	PASS
11N20SISO	Ant4	2412	15.960	2403.600	2419.560	0.5	PASS
11N20SISO	Ant4	2437	17.520	2428.240	2445.760	0.5	PASS
11N20SISO	Ant4	2462	15.200	2454.720	2469.920	0.5	PASS
11N40SISO	Ant4	2422	35.520	2404.080	2439.600	0.5	PASS

11N40SISO	Ant4	2437	35.120	2419.480	2454.600	0.5	PASS
11N40SISO	Ant4	2452	35.200	2434.560	2469.760	0.5	PASS

Ant5:

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant5	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant5	2437	10.120	2431.960	2442.080	0.5	PASS
11B	Ant5	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant5	2412	16.240	2403.880	2420.120	0.5	PASS
11G	Ant5	2437	16.000	2429.160	2445.160	0.5	PASS
11G	Ant5	2462	15.760	2454.120	2469.880	0.5	PASS
11N20SISO	Ant5	2412	16.240	2404.160	2420.400	0.5	PASS
11N20SISO	Ant5	2437	17.520	2428.240	2445.760	0.5	PASS
11N20SISO	Ant5	2462	17.320	2453.440	2470.760	0.5	PASS
11N40SISO	Ant5	2422	35.360	2404.160	2439.520	0.5	PASS
11N40SISO	Ant5	2437	35.040	2419.560	2454.600	0.5	PASS
11N40SISO	Ant5	2452	35.040	2434.480	2469.520	0.5	PASS

Test Graphs:

Ant0:

11B-Ant0-2412-PASS

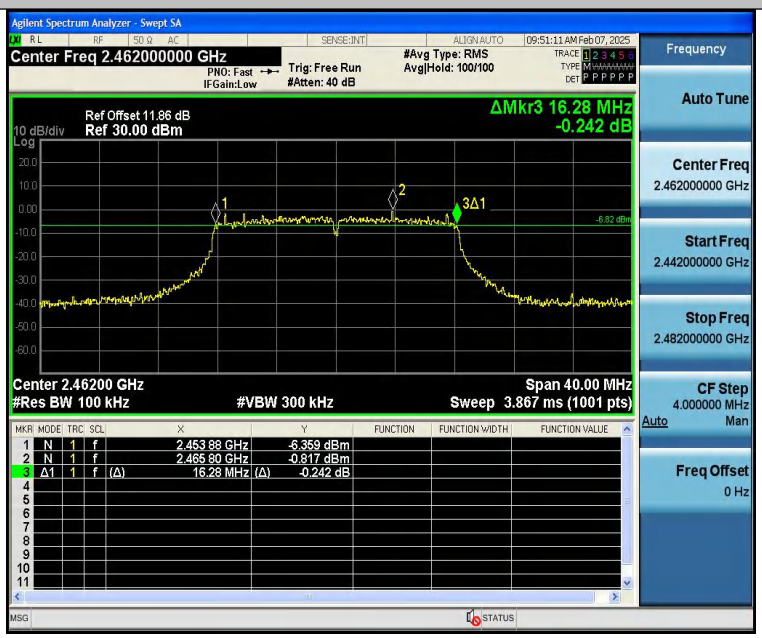
11B-Ant0-2437-PASS

11B-Ant0-2462-PASS

11G-Ant0-2412-PASS

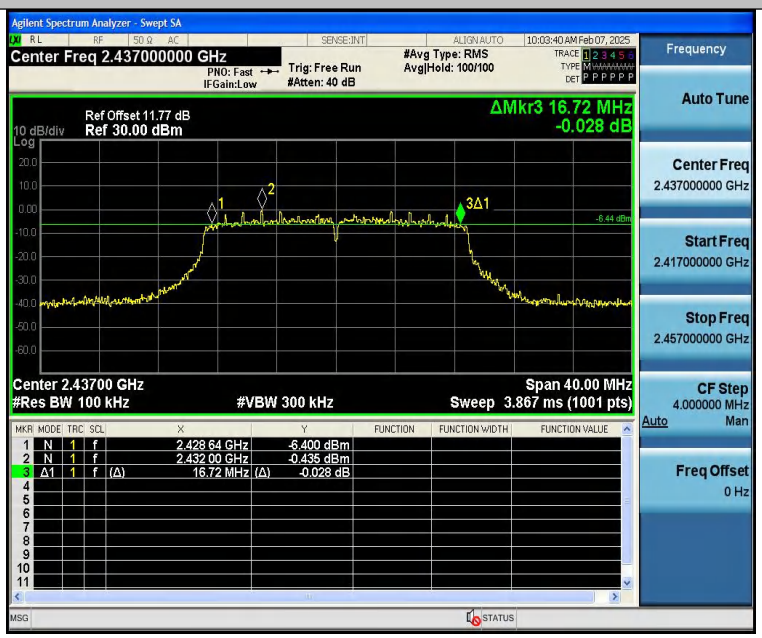
11G-Ant0-2437-PASS

11G-Ant0-2462-PASS



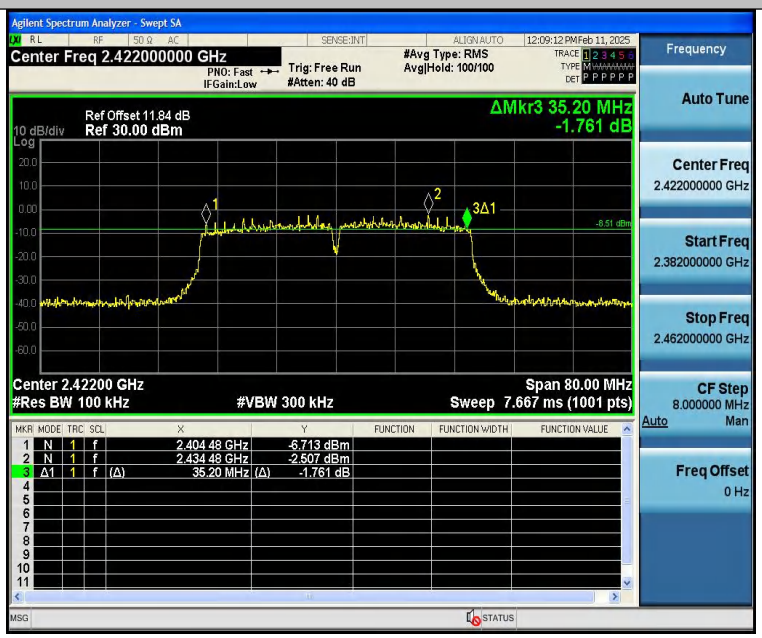
11N20SISO-Ant0-2412-PASS

11N20SISO-Ant0-2437-PASS

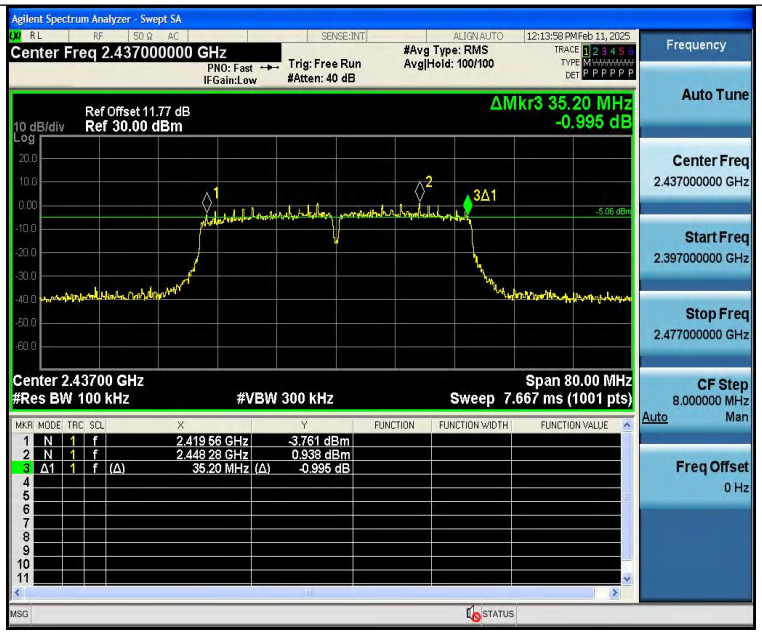


11N20SISO-Ant0-2462-PASS

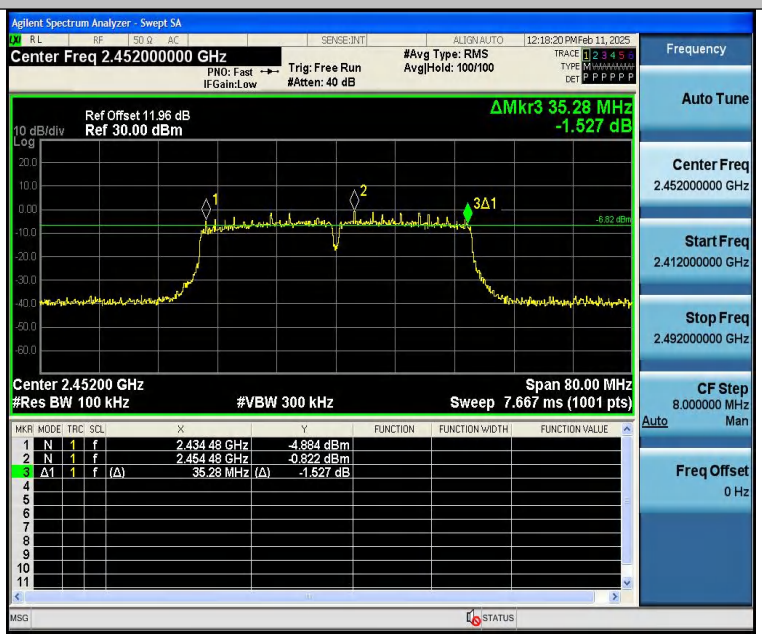
11N40SISO-Ant0-2422-PASS



11N40SISO-Ant0-2437-PASS



11N40SISO-Ant0-2452-PASS



Ant1:

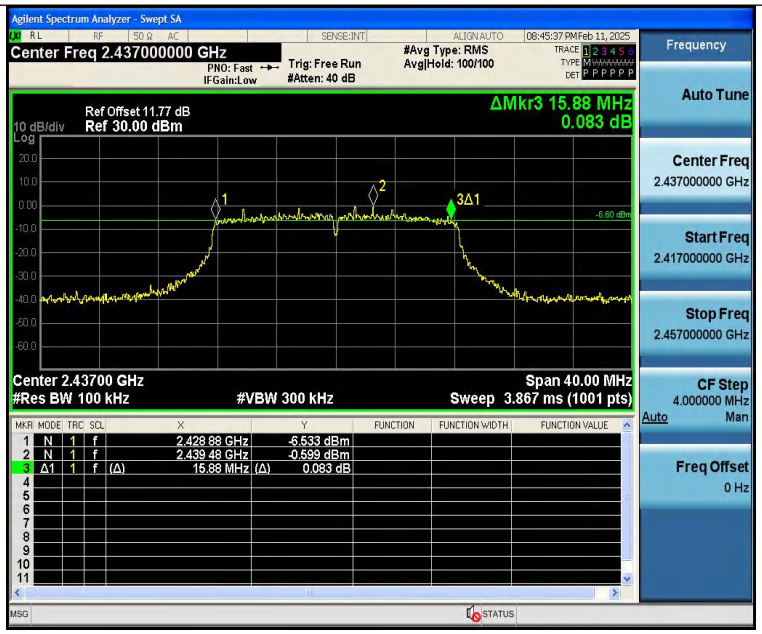
11B-Ant1-2412-PASS

11B-Ant1-2437-PASS

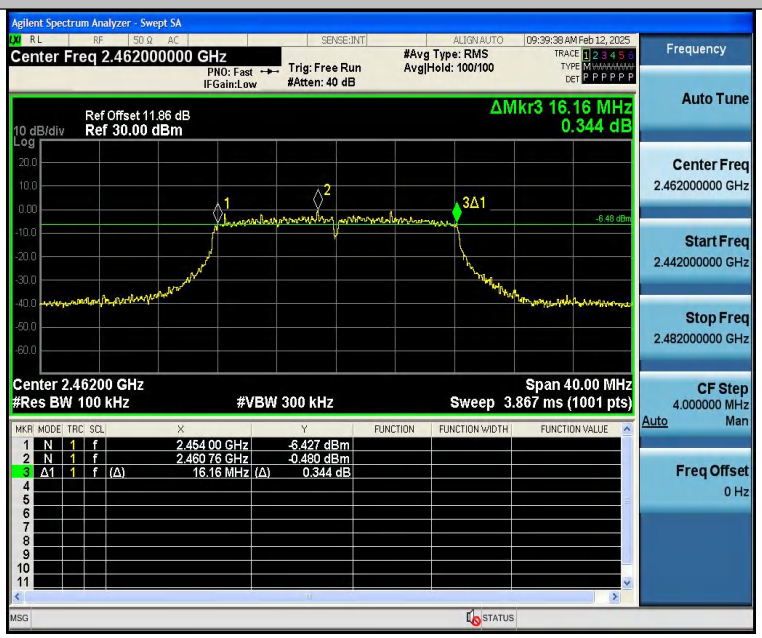
11B-Ant1-2462-PASS

11G-Ant1-2412-PASS

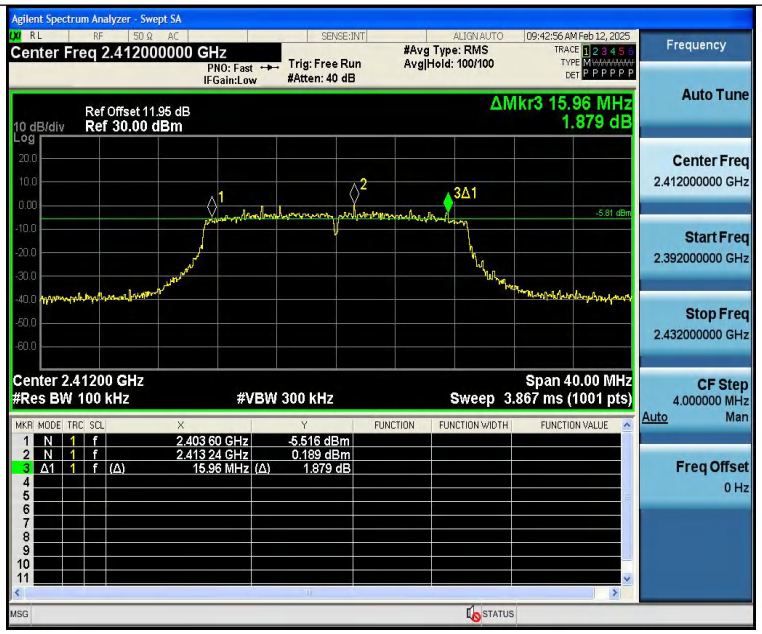
11G-Ant1-2437-PASS



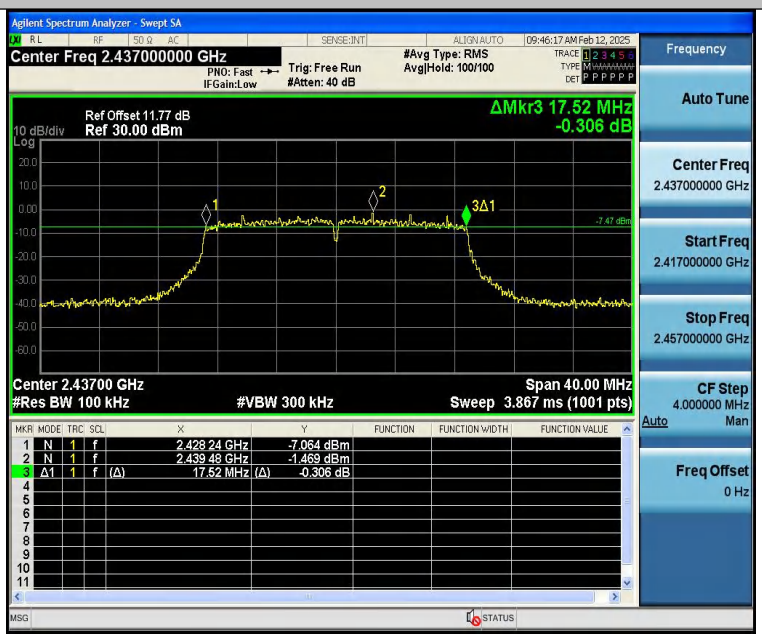
11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS

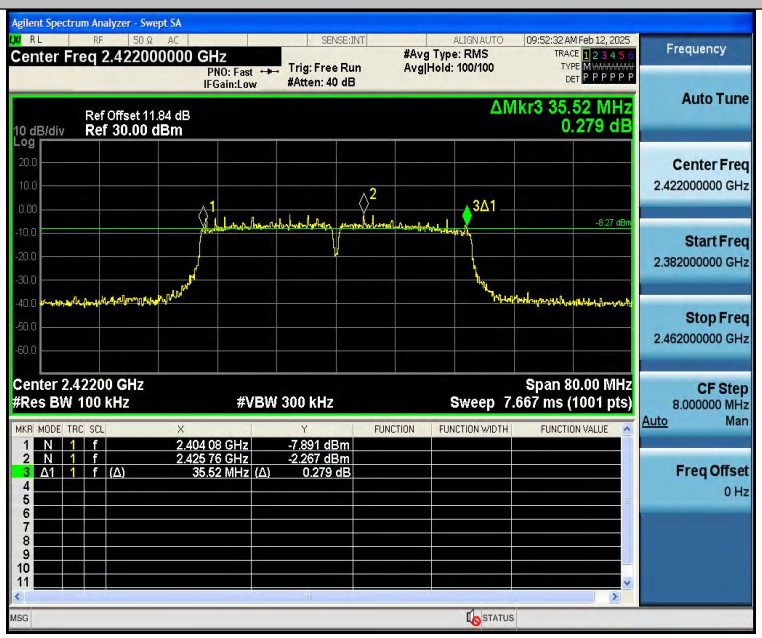


11N20SISO-Ant1-2437-PASS

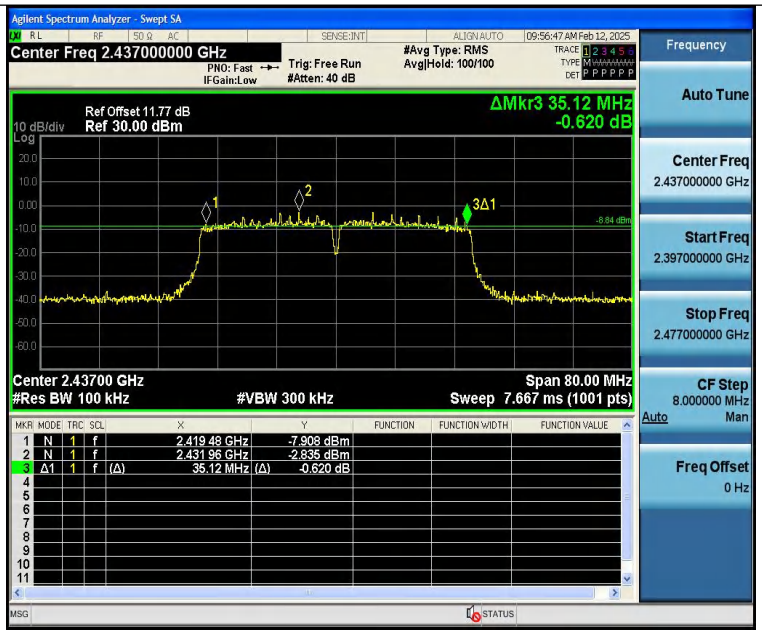


11N20SISO-Ant1-2462-PASS

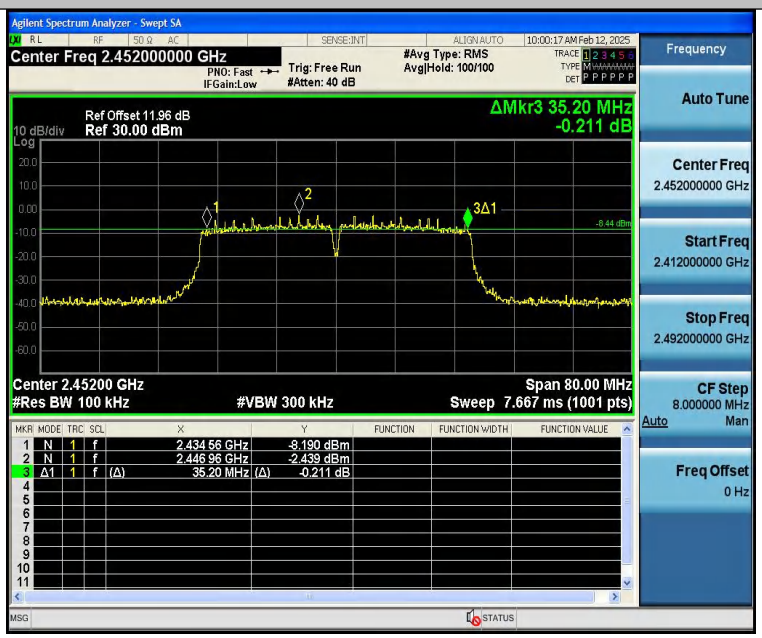
11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



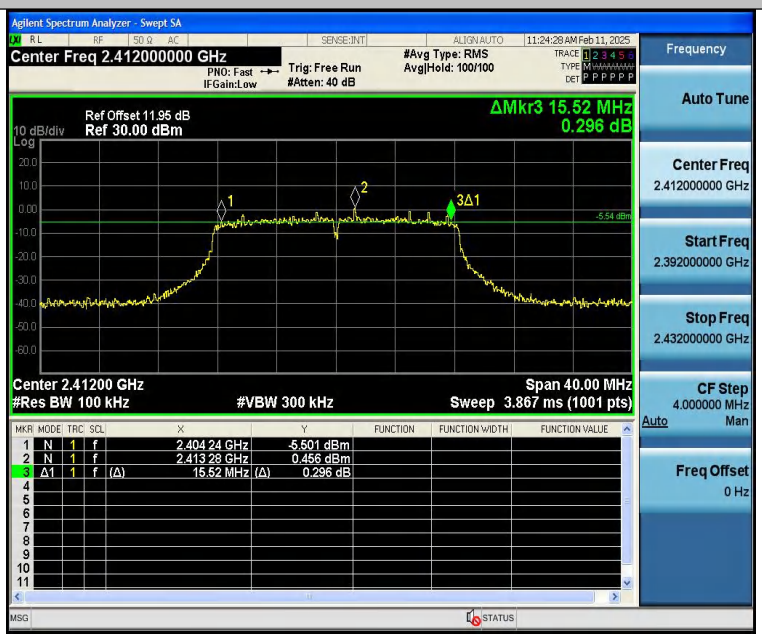
Ant2:

11B-Ant2-2412-PASS

11B-Ant2-2437-PASS

11B-Ant2-2462-PASS

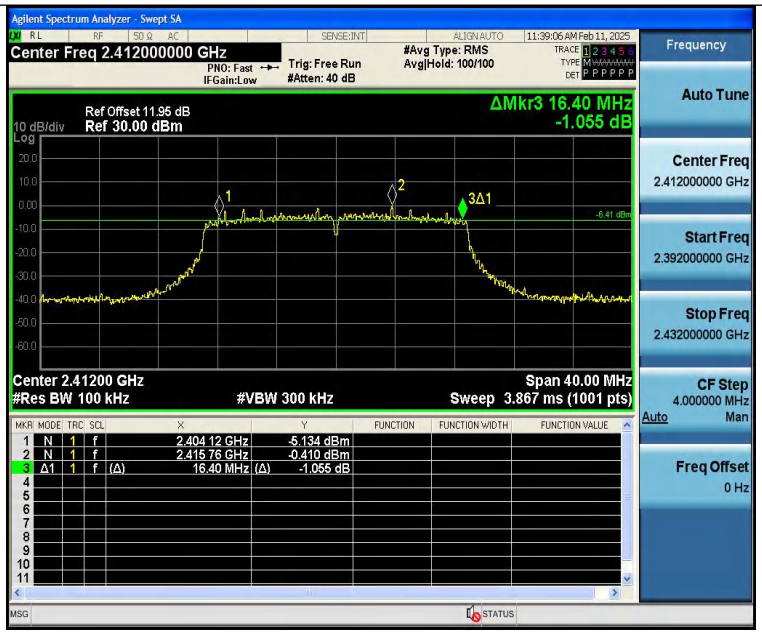
11G-Ant2-2412-PASS



11G-Ant2-2437-PASS

11G-Ant2-2462-PASS

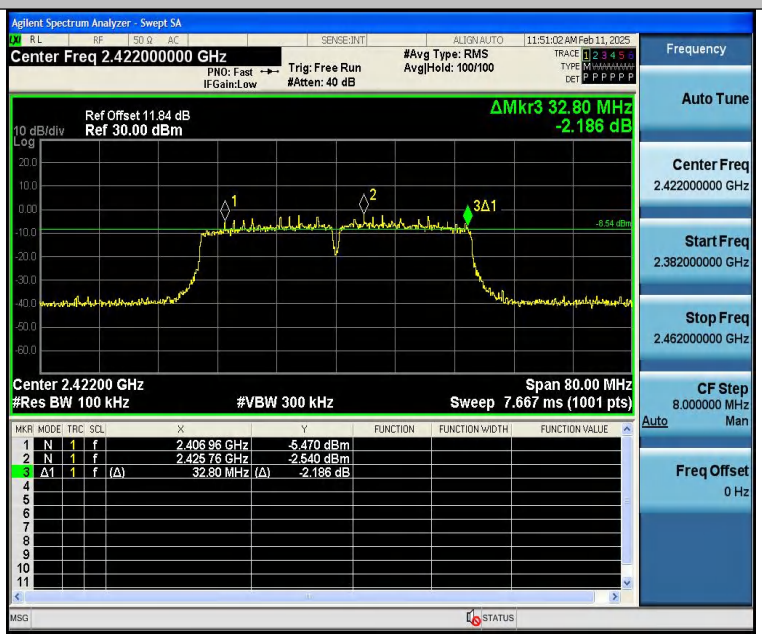
11N20SISO-Ant2-2412-PASS



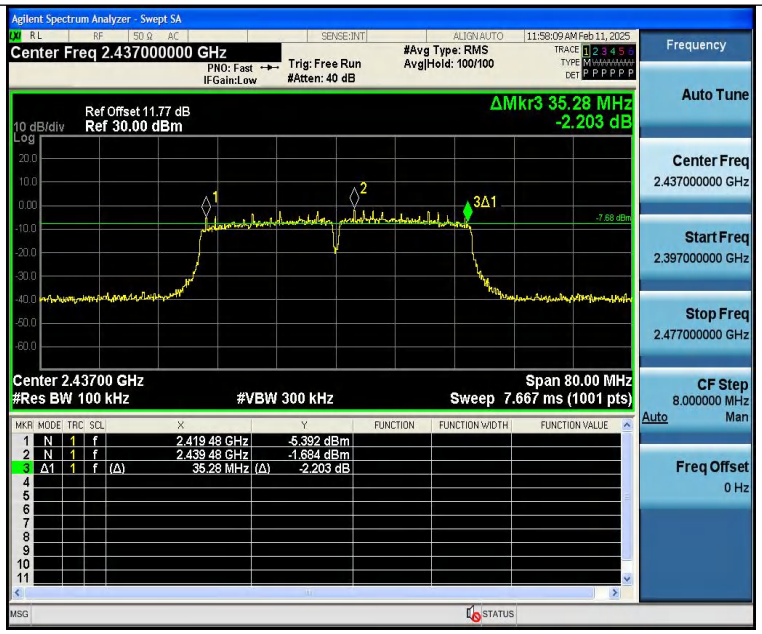
11N20SISO-Ant2-2437-PASS

11N20SISO-Ant2-2462-PASS

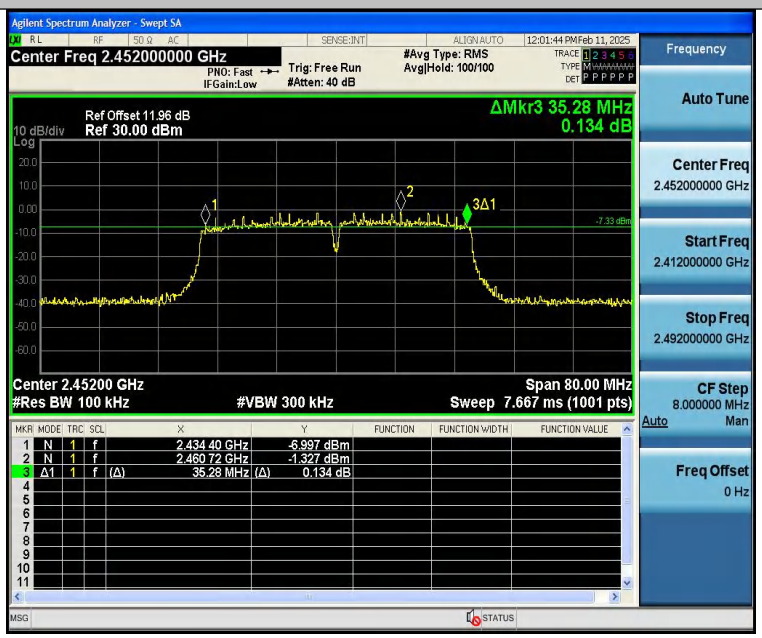
11N40SISO-Ant2-2422-PASS



11N40SISO-Ant2-2437-PASS



11N40SISO-Ant2-2452-PASS



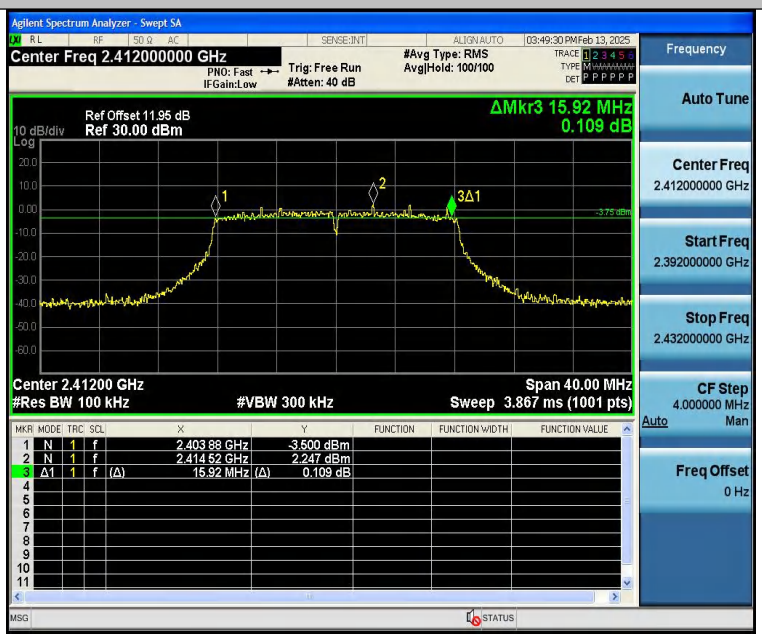
Ant3:

11B-Ant3-2412-PASS

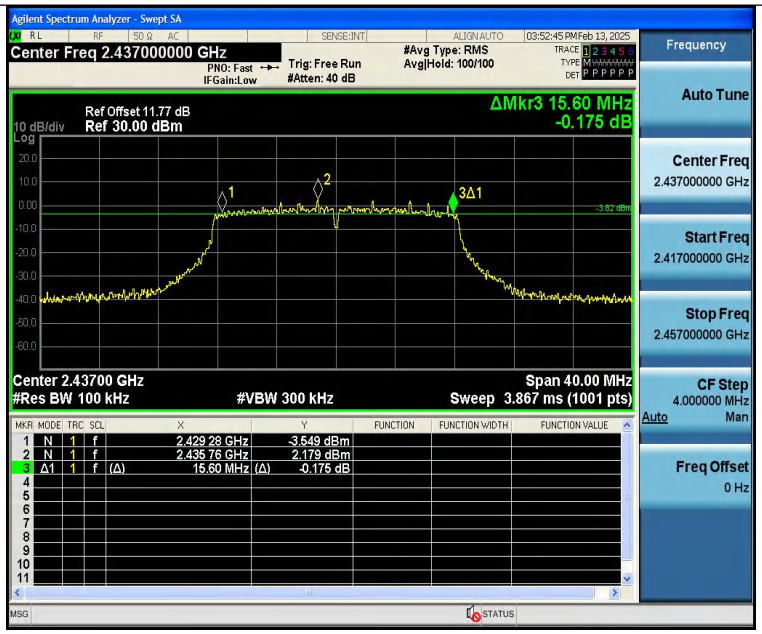
11B-Ant3-2437-PASS

11B-Ant3-2462-PASS

11G-Ant3-2412-PASS

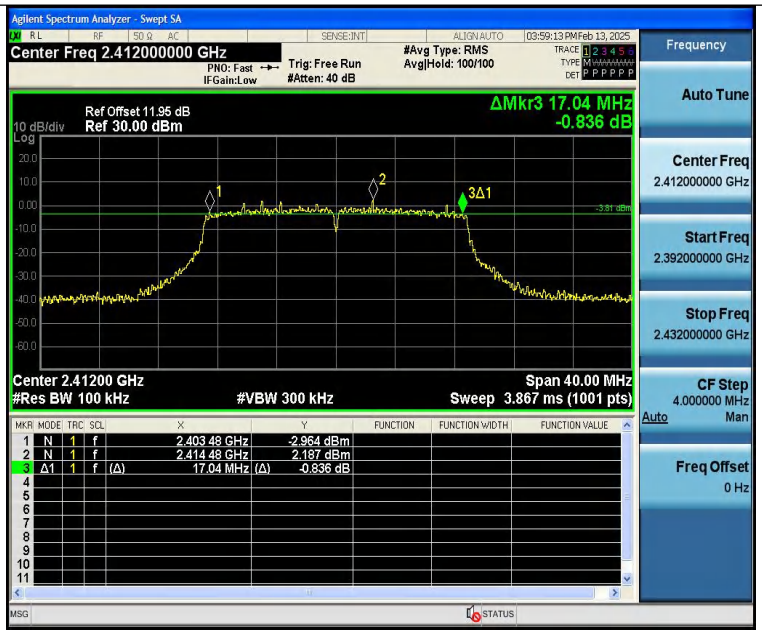


11G-Ant3-2437-PASS

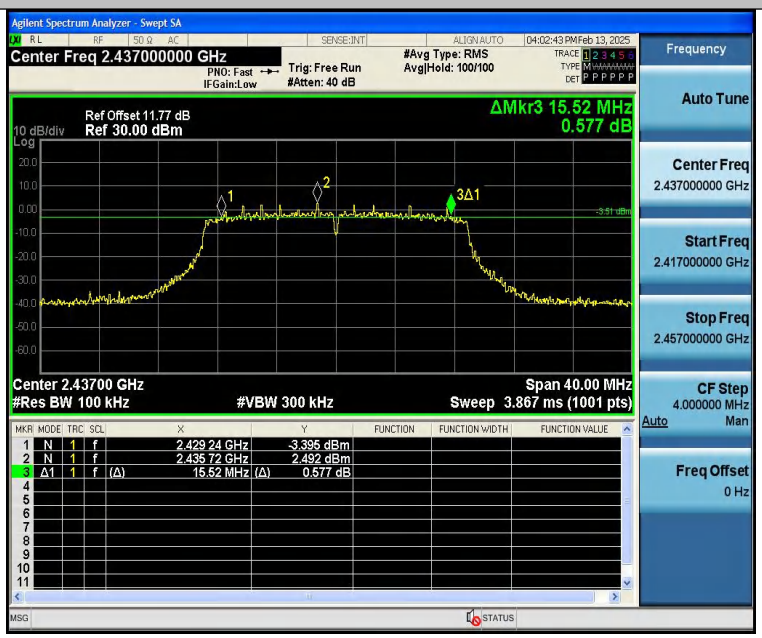


11G-Ant3-2462-PASS

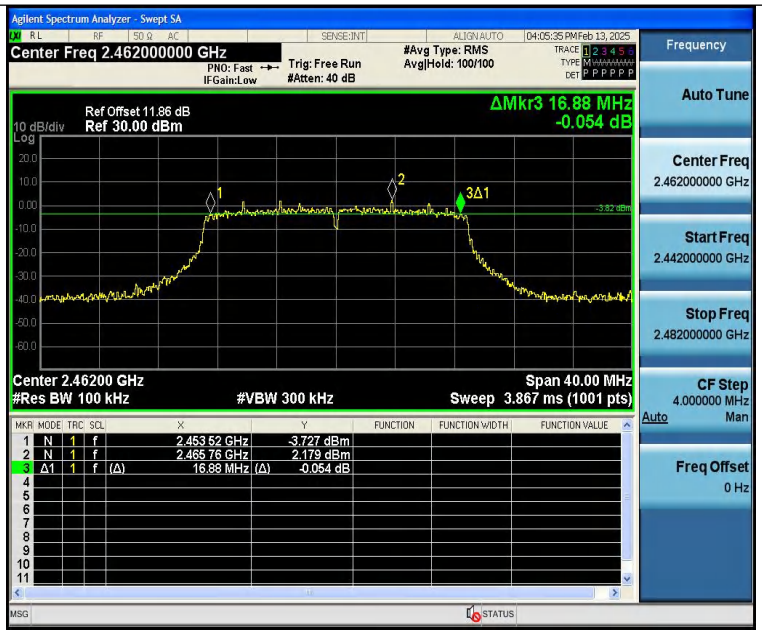
11N20SISO-Ant3-2412-PASS



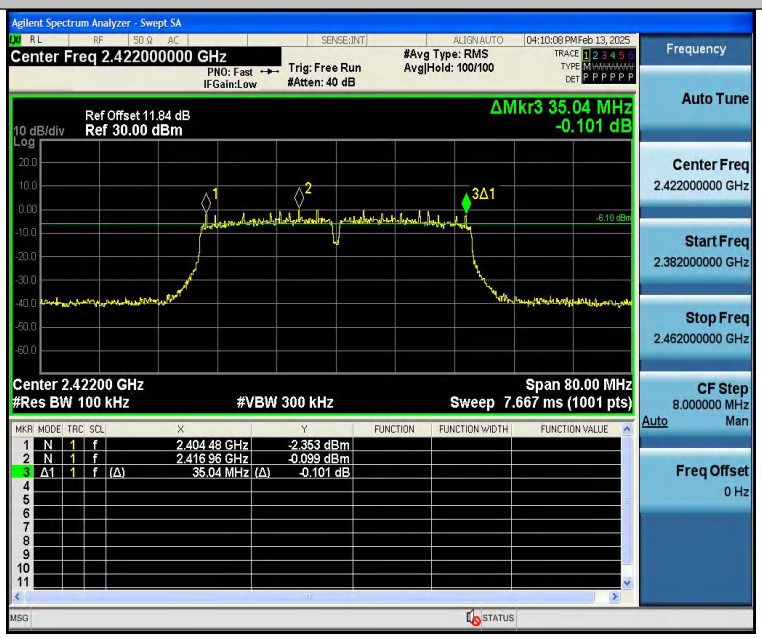
11N20SISO-Ant3-2437-PASS



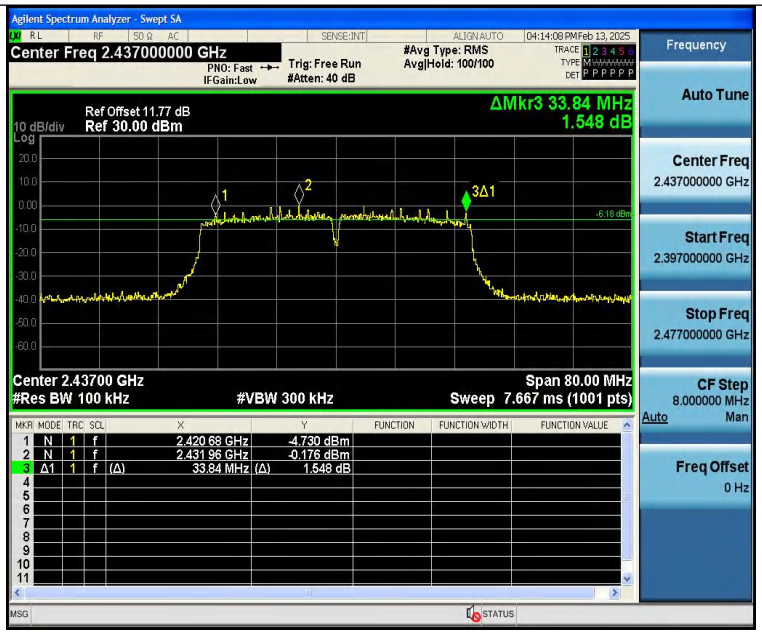
11N20SISO-Ant3-2462-PASS



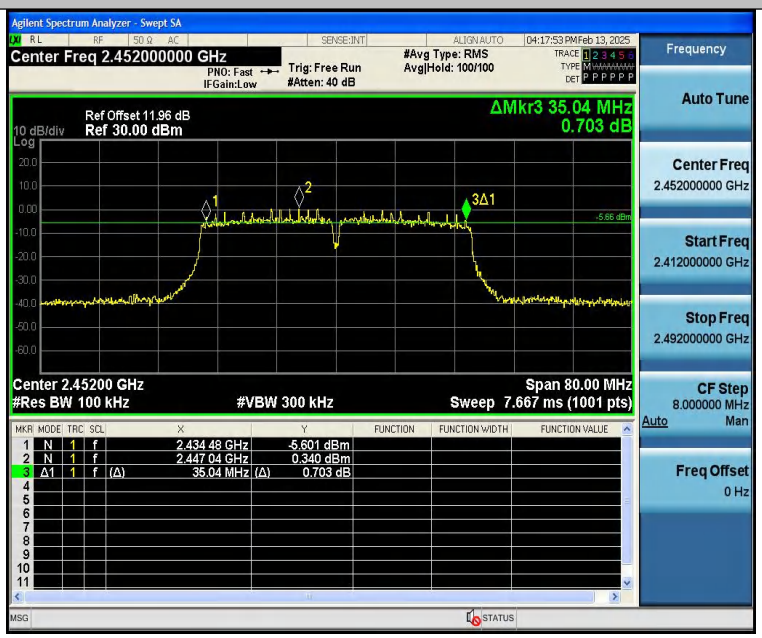
11N40SISO-Ant3-2422-PASS



11N40SISO-Ant3-2437-PASS



11N40SISO-Ant3-2452-PASS



Ant4:

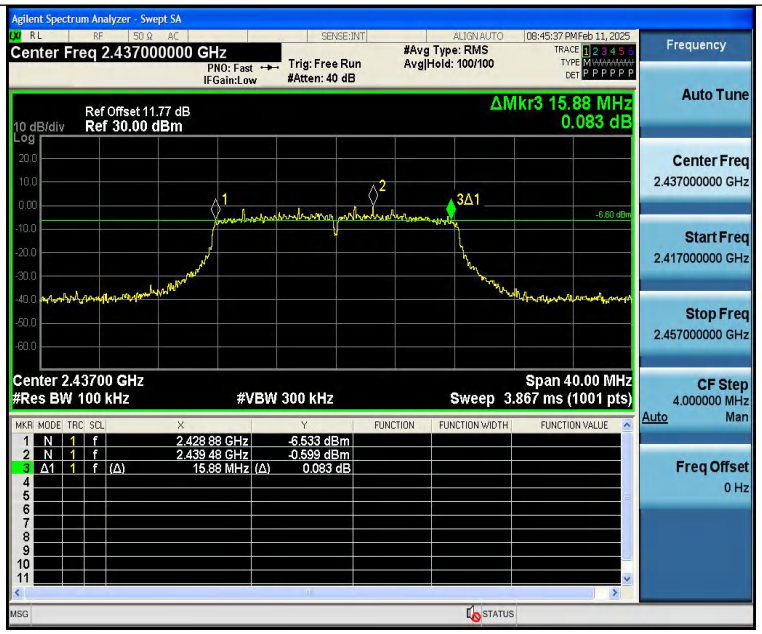
11B-Ant4-2412-PASS

11B-Ant4-2437-PASS

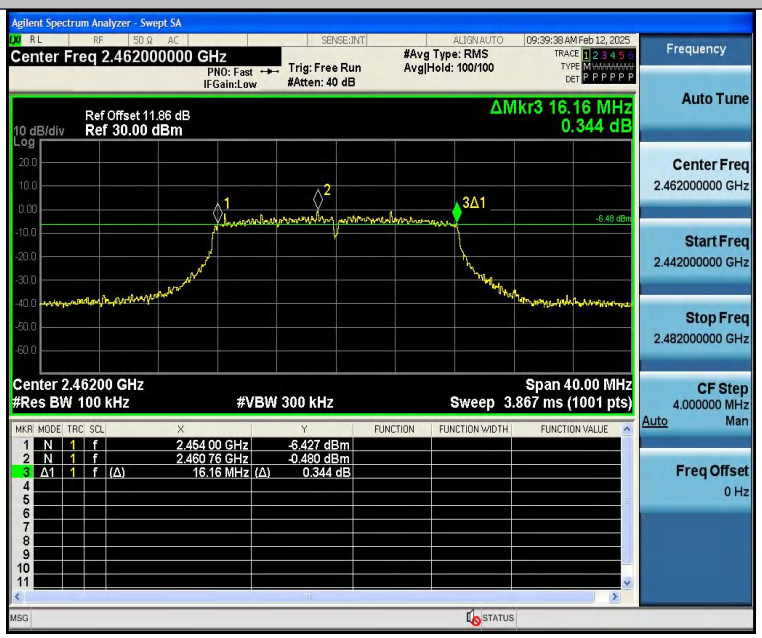
11B-Ant4-2462-PASS

11G-Ant4-2412-PASS

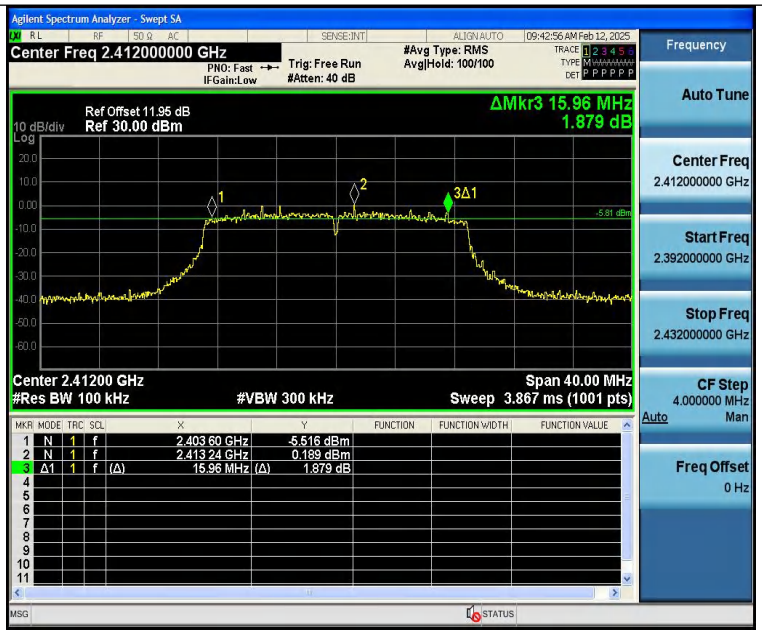
11G-Ant4-2437-PASS



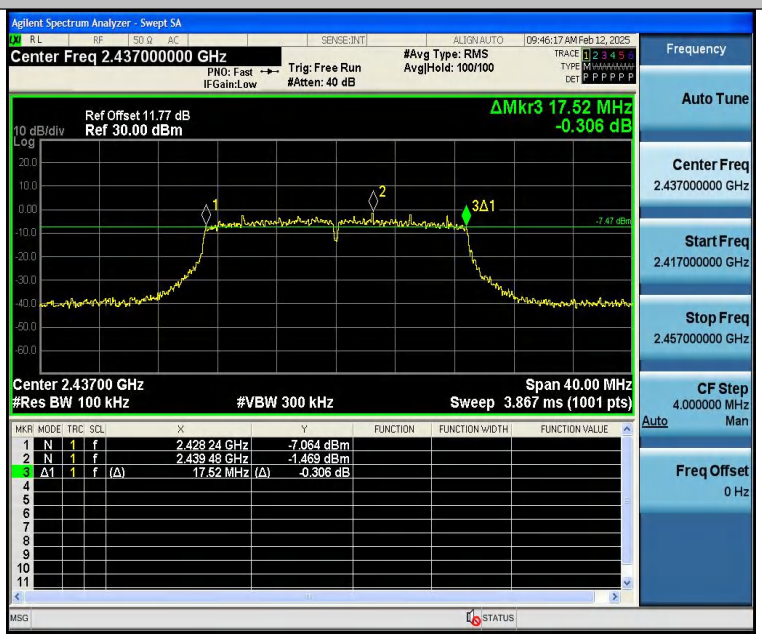
11G-Ant4-2462-PASS



11N20SISO-Ant4-2412-PASS

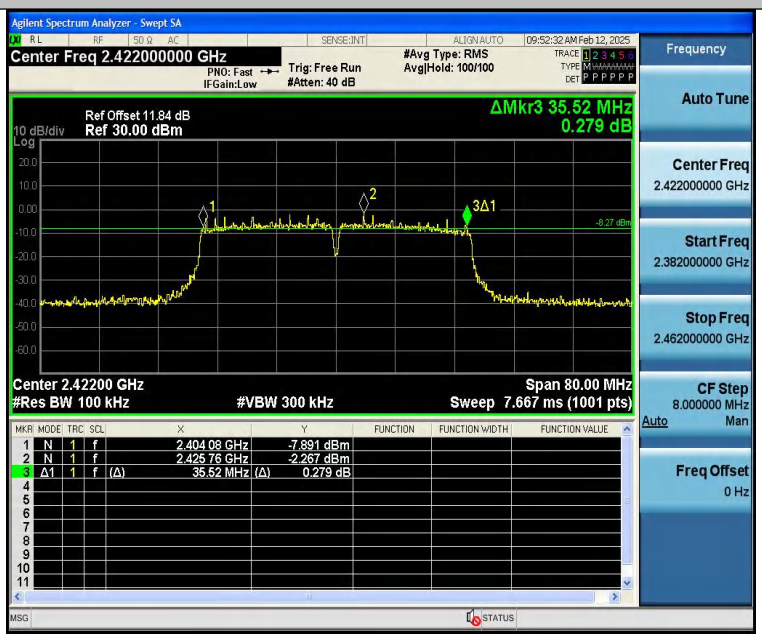


11N20SISO-Ant4-2437-PASS

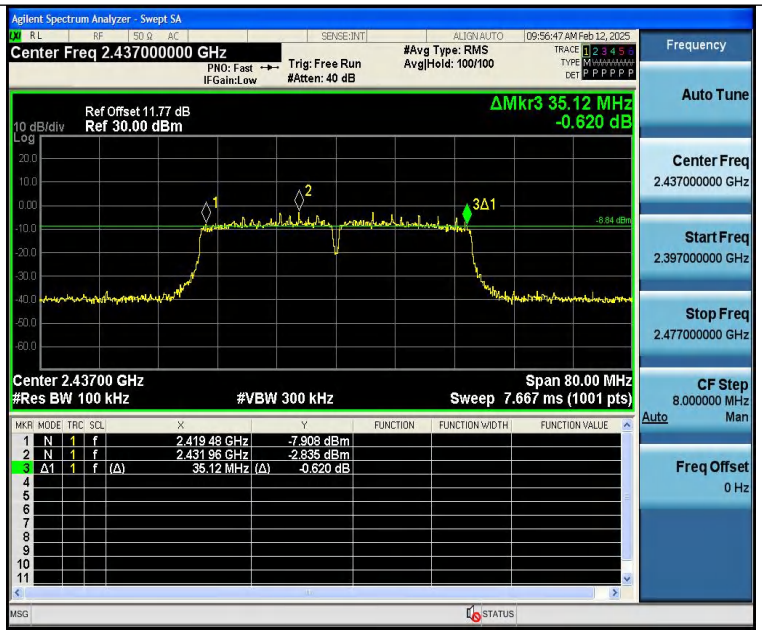


11N20SISO-Ant4-2462-PASS

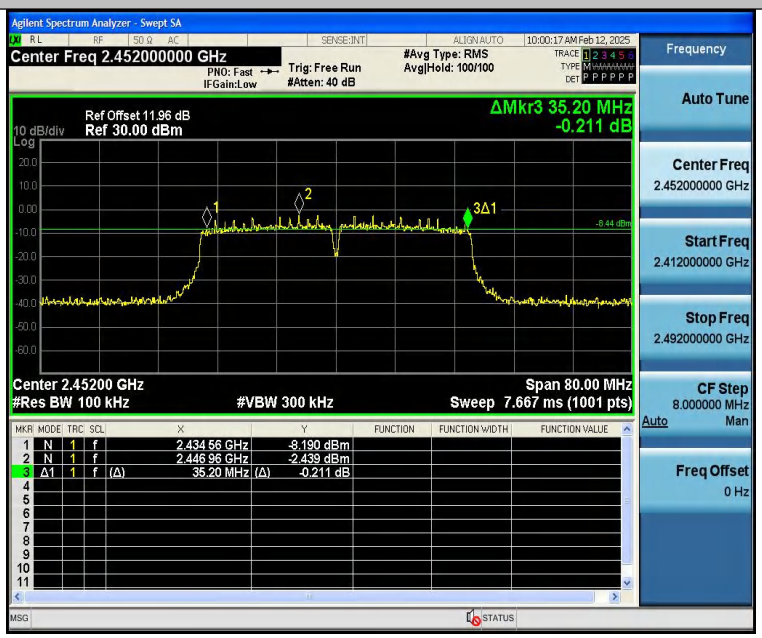
11N40SISO-Ant4-2422-PASS



11N40SISO-Ant4-2437-PASS



11N40SISO-Ant4-2452-PASS



Ant5:

11B-Ant5-2412-PASS

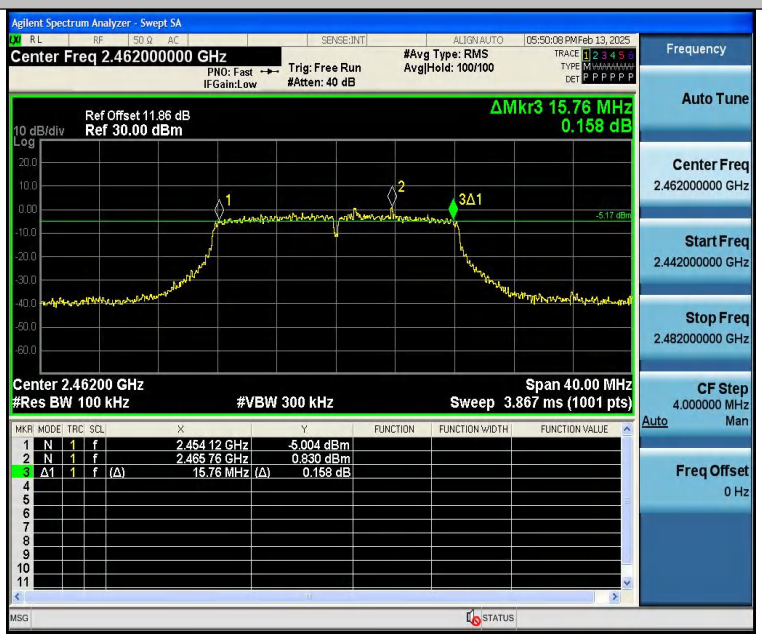
11B-Ant5-2437-PASS

11B-Ant5-2462-PASS

11G-Ant5-2412-PASS

11G-Ant5-2437-PASS

11G-Ant5-2462-PASS



11N20SISO-Ant5-2412-PASS