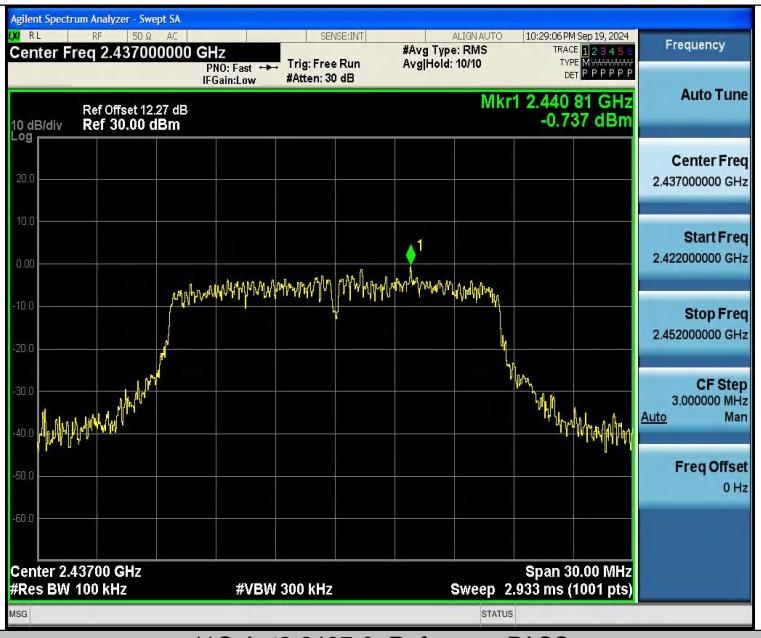
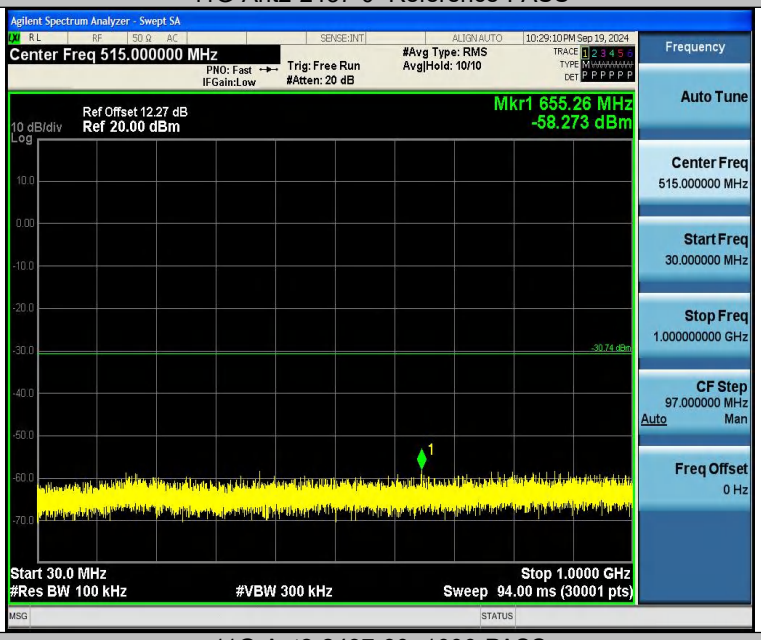
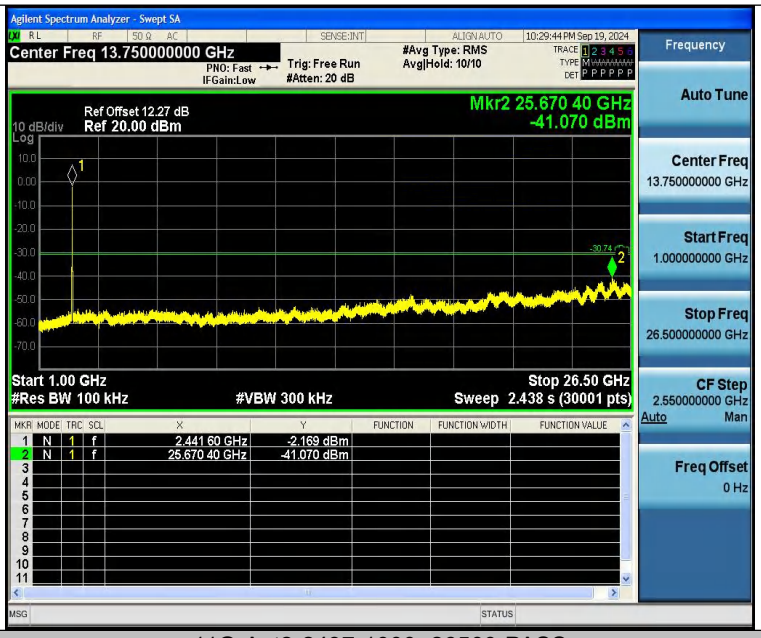


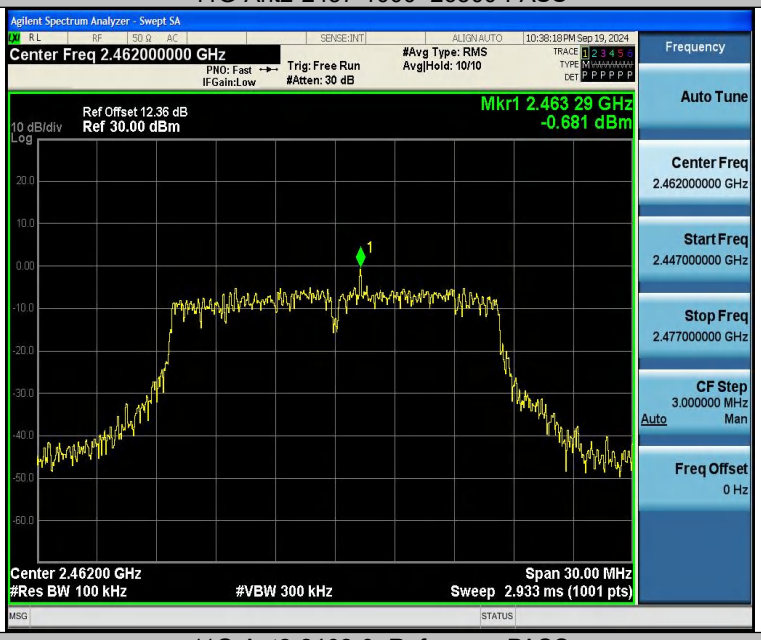
11G-Ant2-2437-0~Reference-PASS



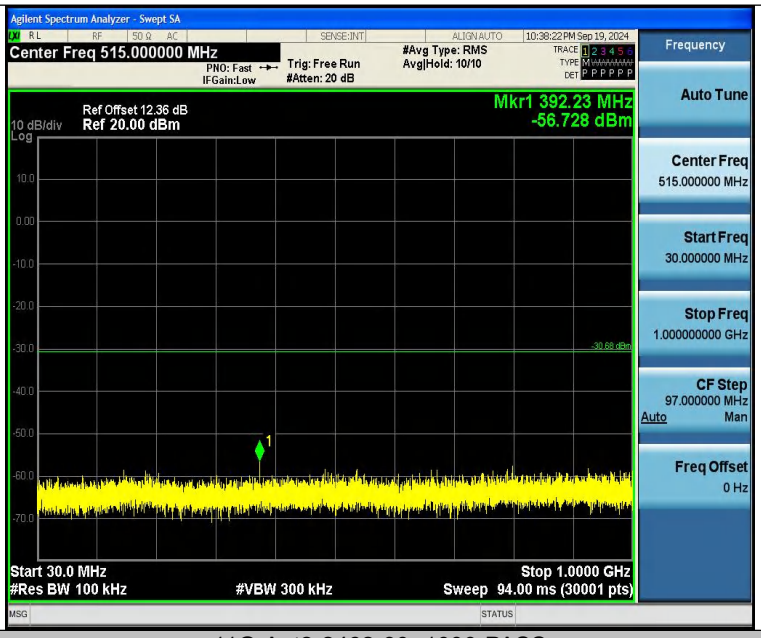
11G-Ant2-2437-30~1000-PASS



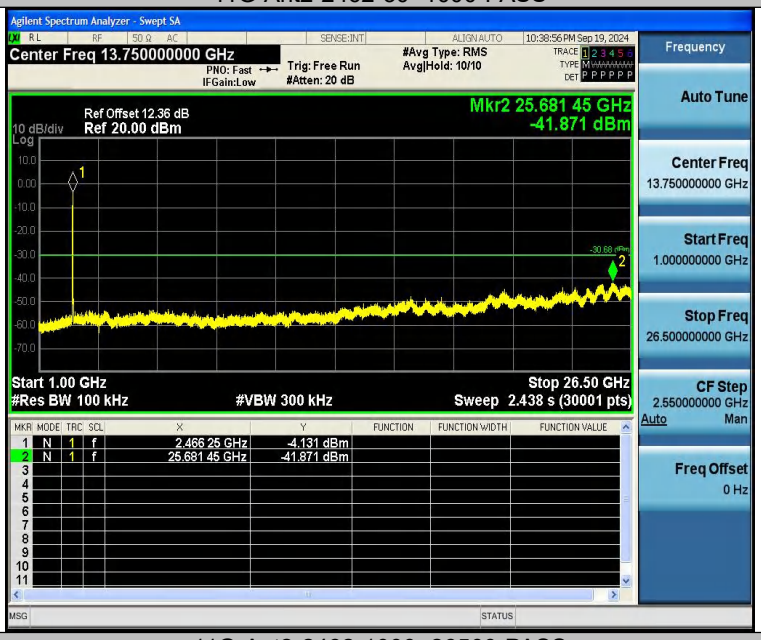
11G-Ant2-2437-1000~26500-PASS



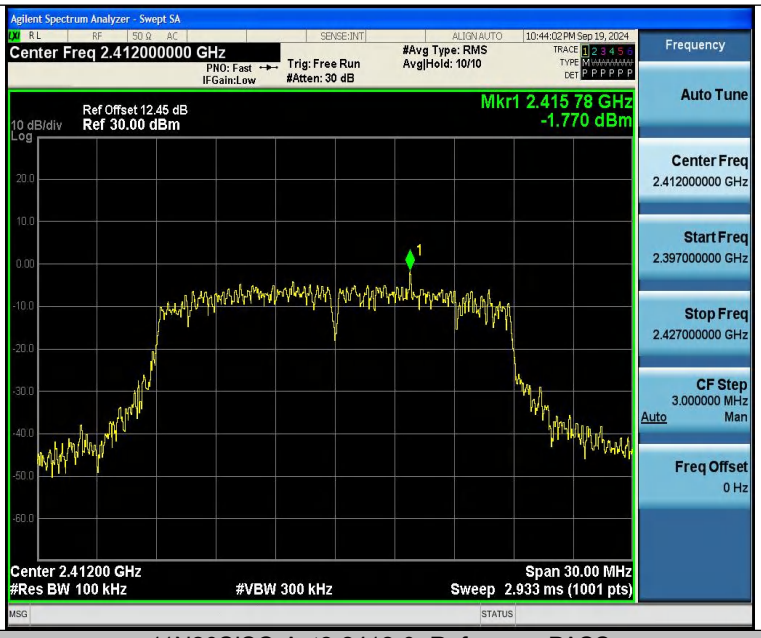
11G-Ant2-2462-0~Reference-PASS



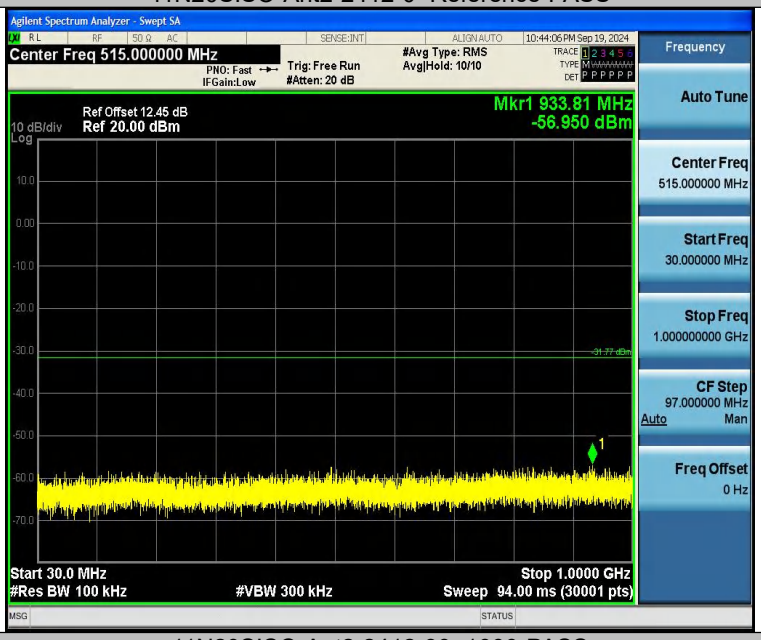
11G-Ant2-2462-30~1000-PASS



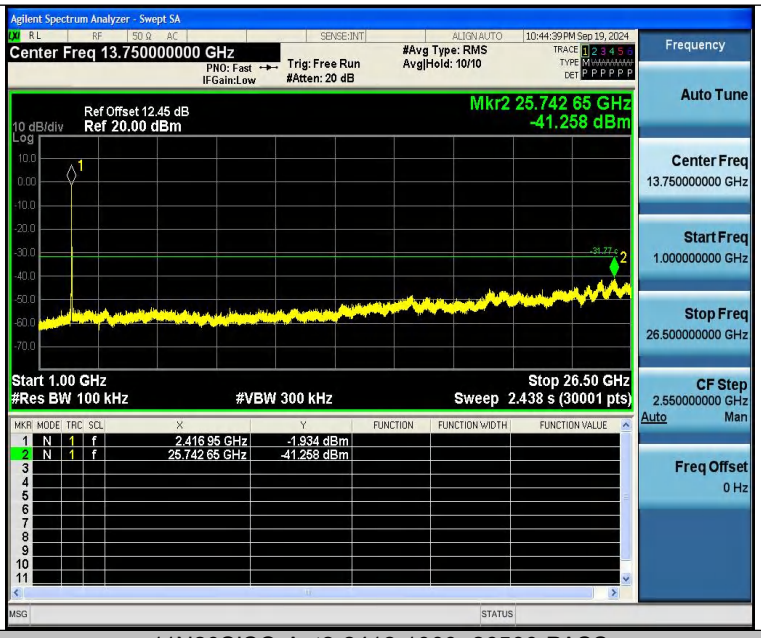
11G-Ant2-2462-1000~26500-PASS



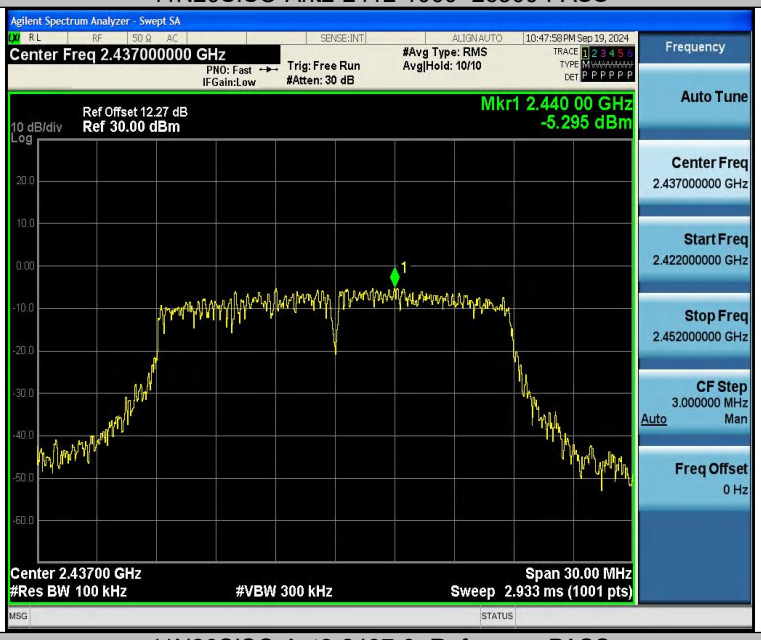
11N20SISO-Ant2-2412-0~Reference-PASS



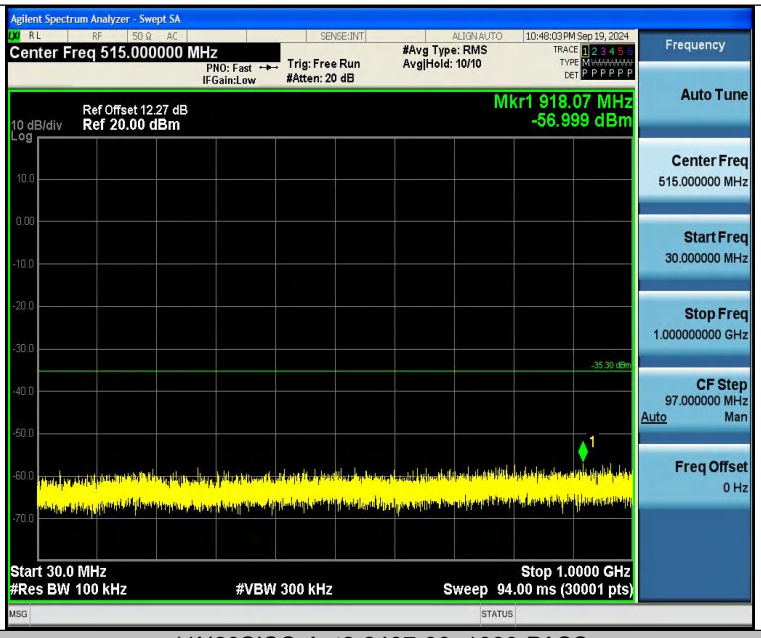
11N20SISO-Ant2-2412-30~1000-PASS



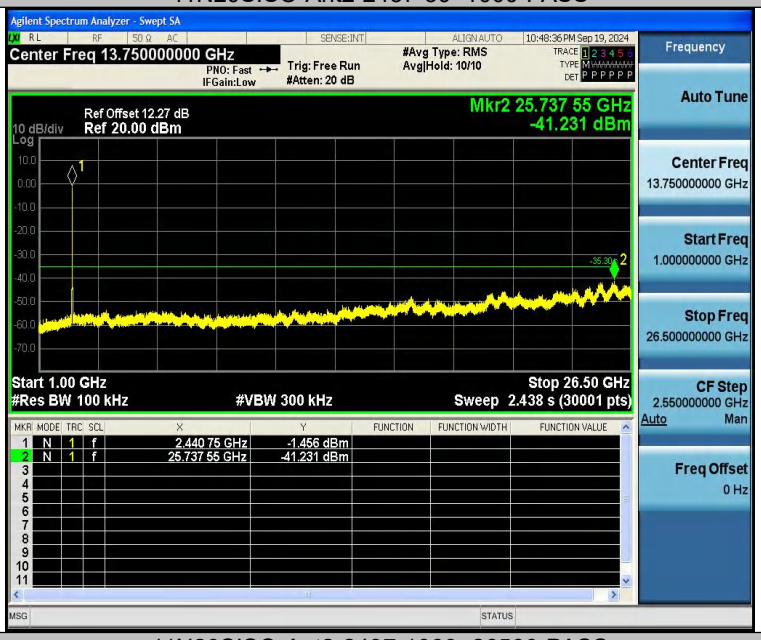
11N20SISO-Ant2-2412-1000~26500-PASS



11N20SISO-Ant2-2437-0~Reference-PASS

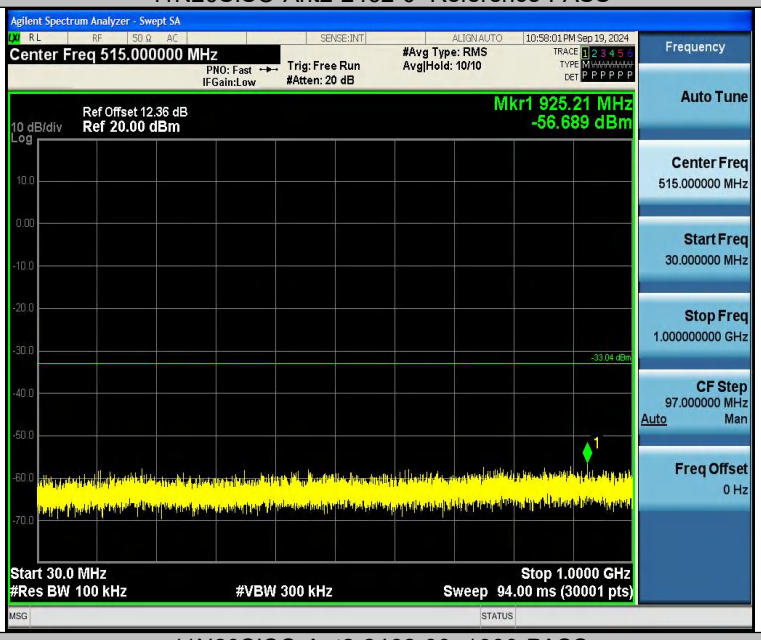


11N20SISO-Ant2-2437-30~1000-PASS

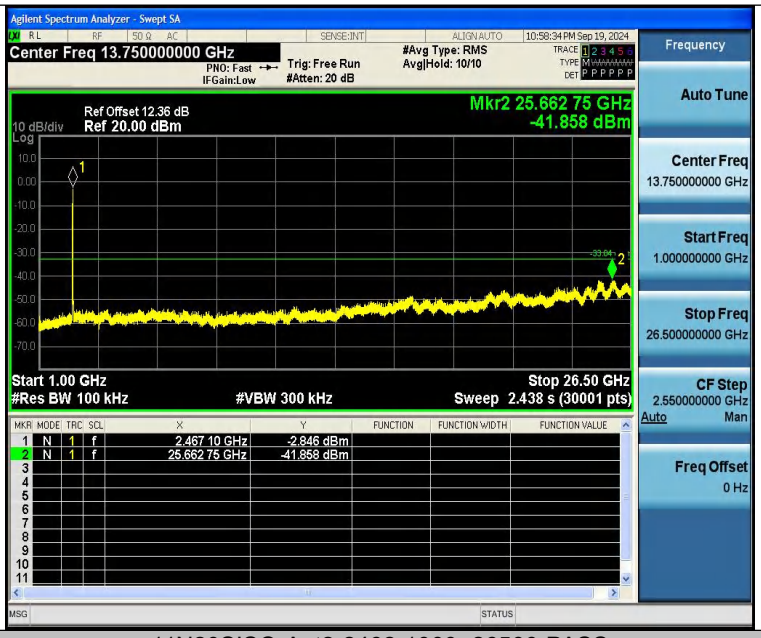


11N20SISO-Ant2-2437-1000~26500-PASS

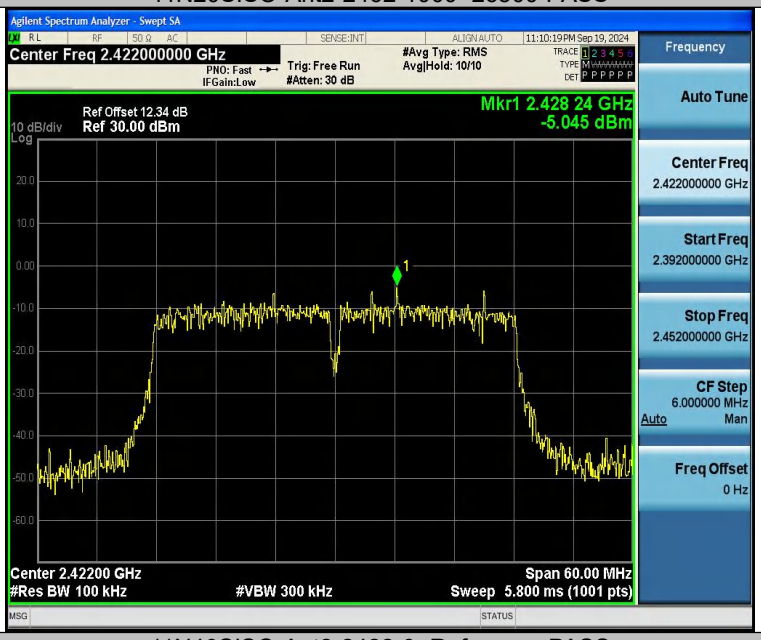
11N20SISO-Ant2-2462-0~Reference-PASS



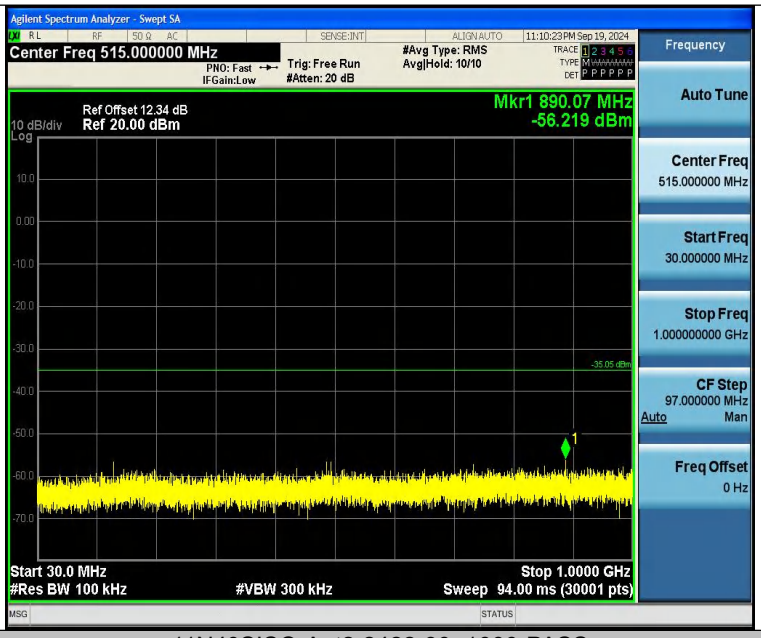
11N20SISO-Ant2-2462-30~1000-PASS



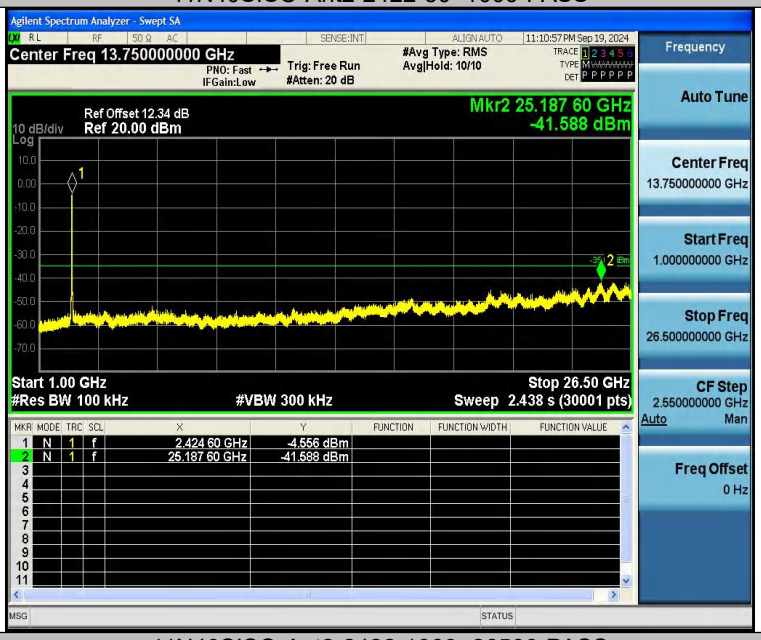
11N20SISO-Ant2-2462-1000~26500-PASS



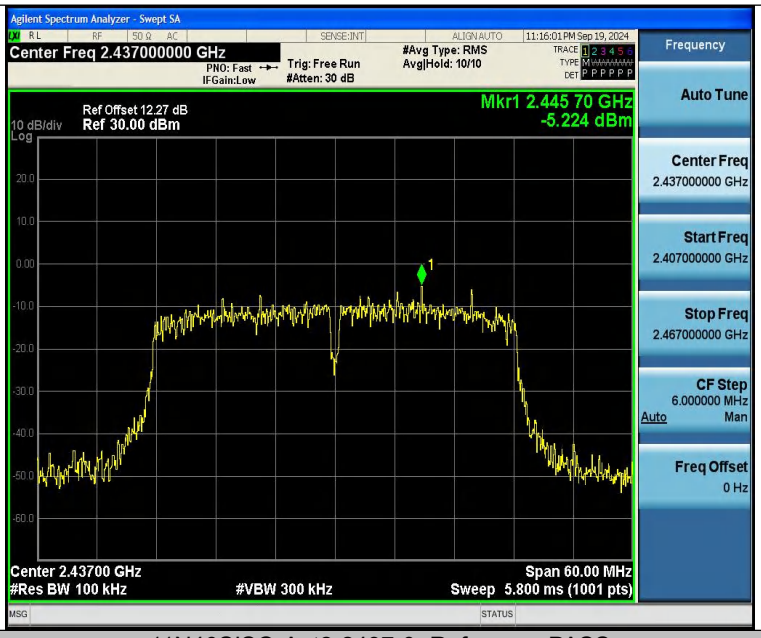
11N40SISO-Ant2-2422-0~Reference-PASS



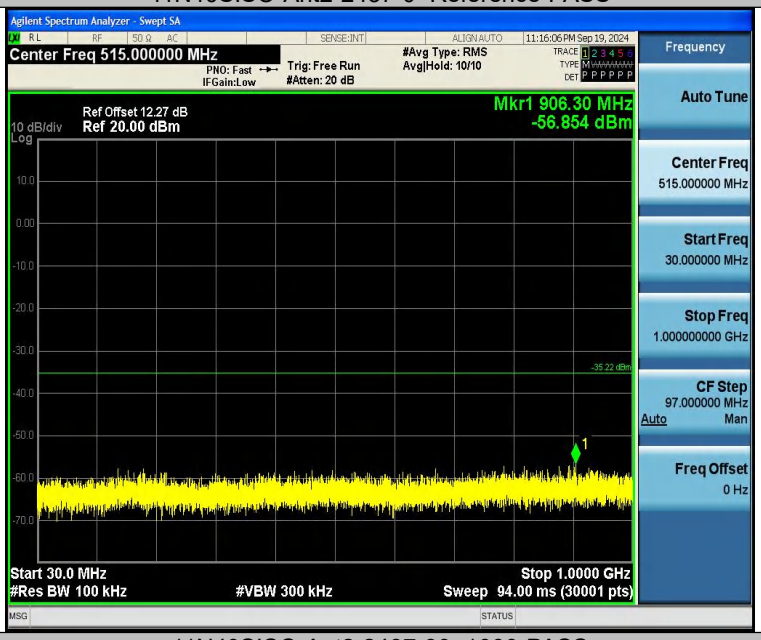
11N40SISO-Ant2-2422-30~1000-PASS



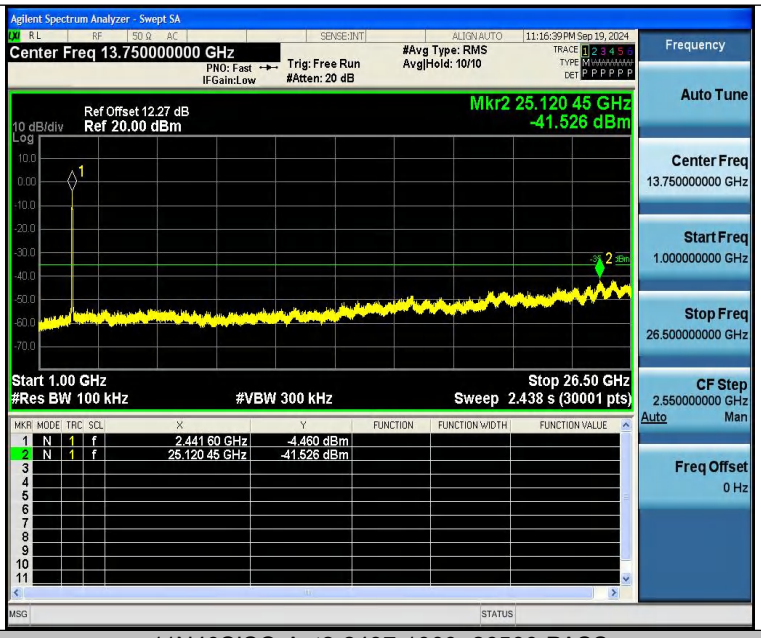
11N40SISO-Ant2-2422-1000~26500-PASS



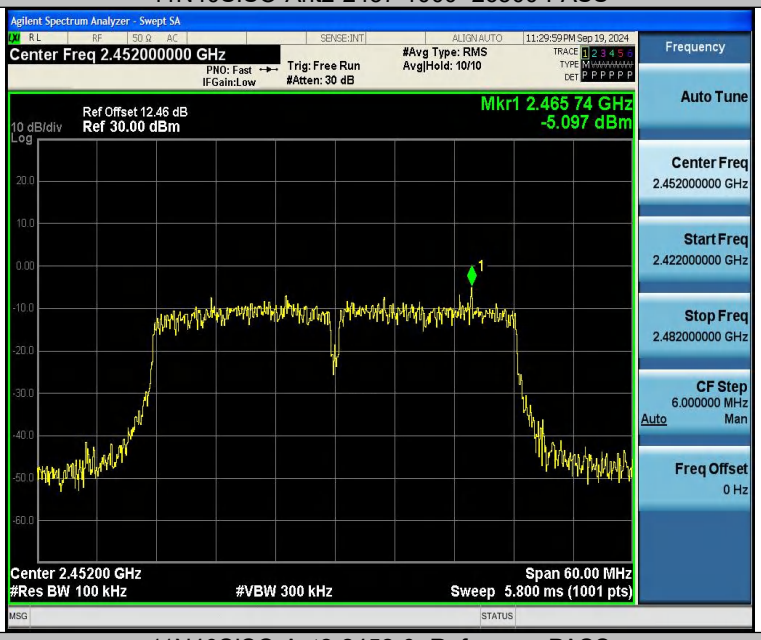
11N40SISO-Ant2-2437-0~Reference-PASS



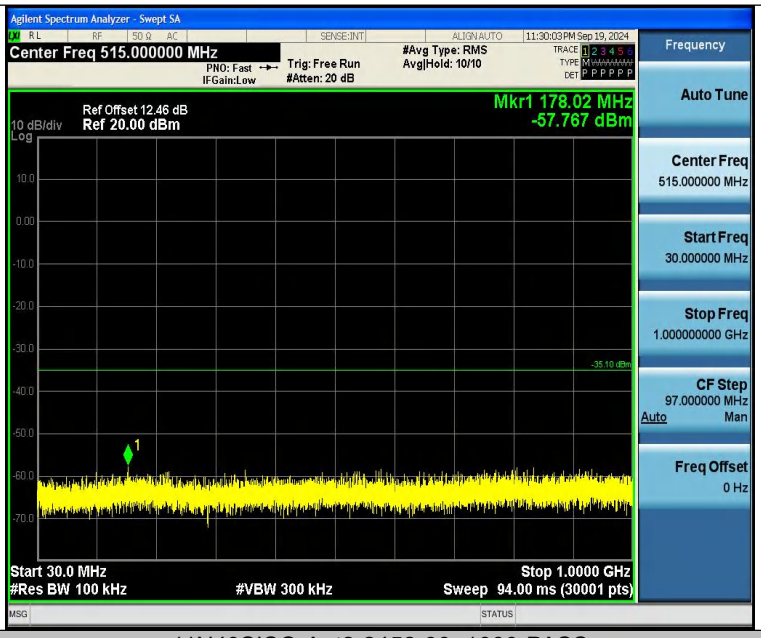
11N40SISO-Ant2-2437-30~1000-PASS



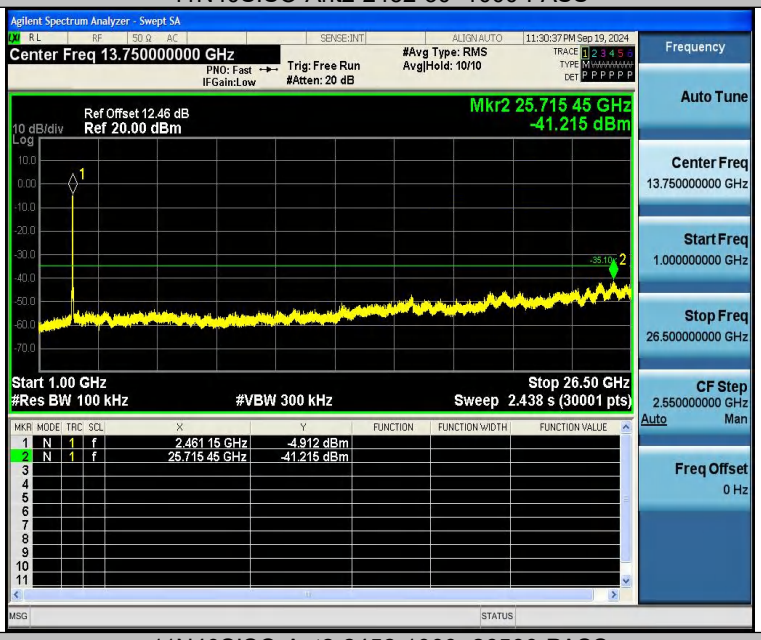
11N40SISO-Ant2-2437-1000~26500-PASS



11N40SISO-Ant2-2452-0~Reference-PASS



11N40SISO-Ant2-2452-30~1000-PASS



11N40SISO-Ant2-2452-1000~26500-PASS

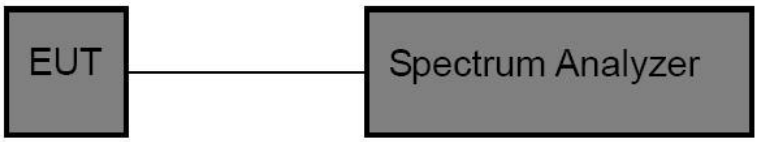
8 Band Edge Measurement

Test Requirement	:	Section 15.247(d) In addition, radiated emissions which fall in the restricted bands. as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
Test Method	:	ANSI C63.10:2013
Test Limit	:	Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

8.1Test 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, Sweep = auto
Detector function = peak, Trace = max hold

8.2Test Setup

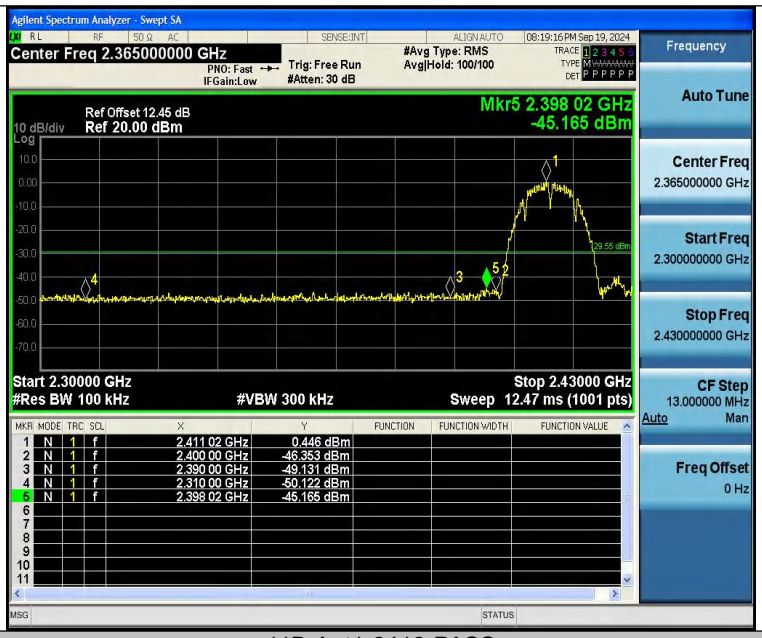


8.3Test Result

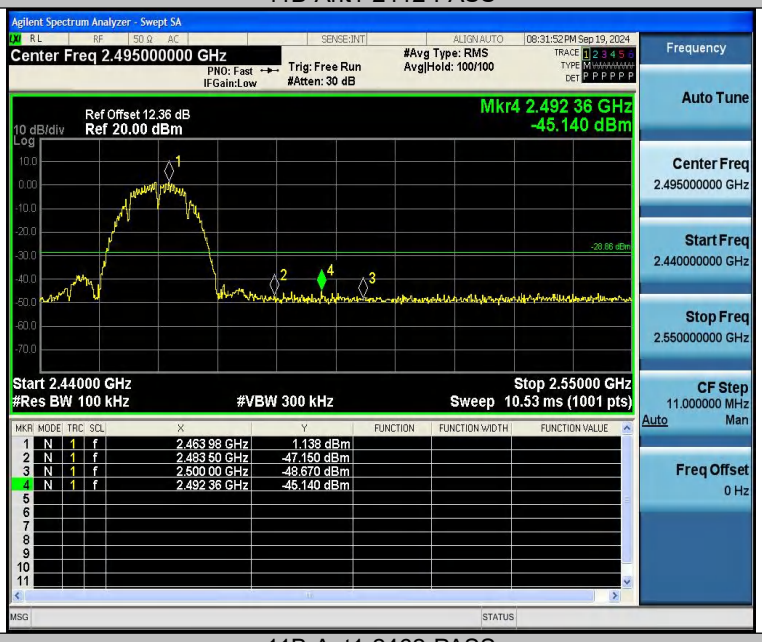
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.45	-45.17	≤-29.55	PASS
11B	Ant1	High	2462	1.14	-45.14	≤-28.86	PASS
11G	Ant1	Low	2412	-0.03	-32.24	≤-30.03	PASS
11G	Ant1	High	2462	0.03	-44.9	≤-29.97	PASS
11N20SISO	Ant1	Low	2412	-1.07	-36.09	≤-31.07	PASS
11N20SISO	Ant1	High	2462	-2.08	-43.6	≤-32.08	PASS
11N40SISO	Ant1	Low	2422	-4.12	-37.96	≤-34.12	PASS
11N40SISO	Ant1	High	2452	-4.07	-41.79	≤-34.07	PASS
11B	Ant2	Low	2412	0.65	-43.86	≤-29.35	PASS
11B	Ant2	High	2462	1.35	-45.47	≤-28.65	PASS
11G	Ant2	Low	2412	-1.04	-36	≤-31.04	PASS
11G	Ant2	High	2462	-1.30	-44.66	≤-31.3	PASS
11N20SISO	Ant2	Low	2412	-0.76	-34.96	≤-30.76	PASS

11N20SISO	Ant2	High	2462	-1.99	-45.24	≤-31.99	PASS
11N40SISO	Ant2	Low	2422	-4.65	-39.54	≤-34.65	PASS
11N40SISO	Ant2	High	2452	-4.23	-40	≤-34.23	PASS

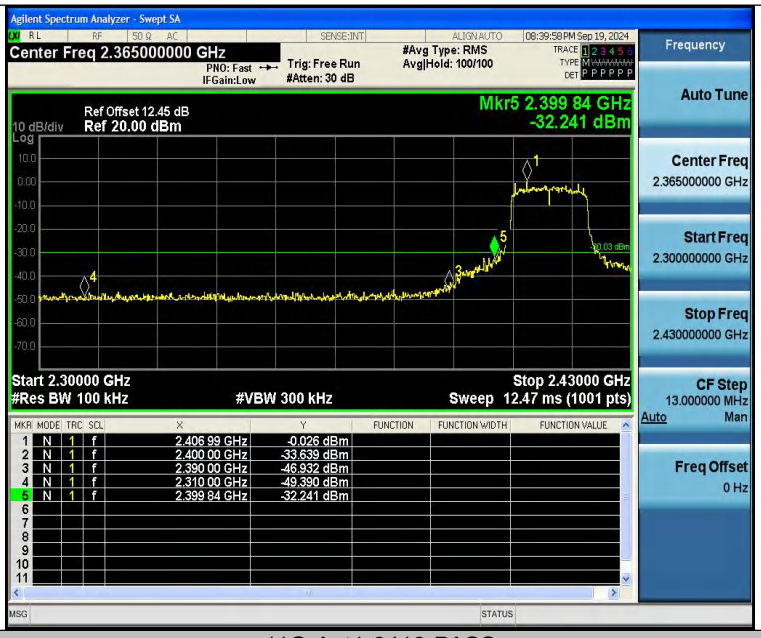
Test Graphs:



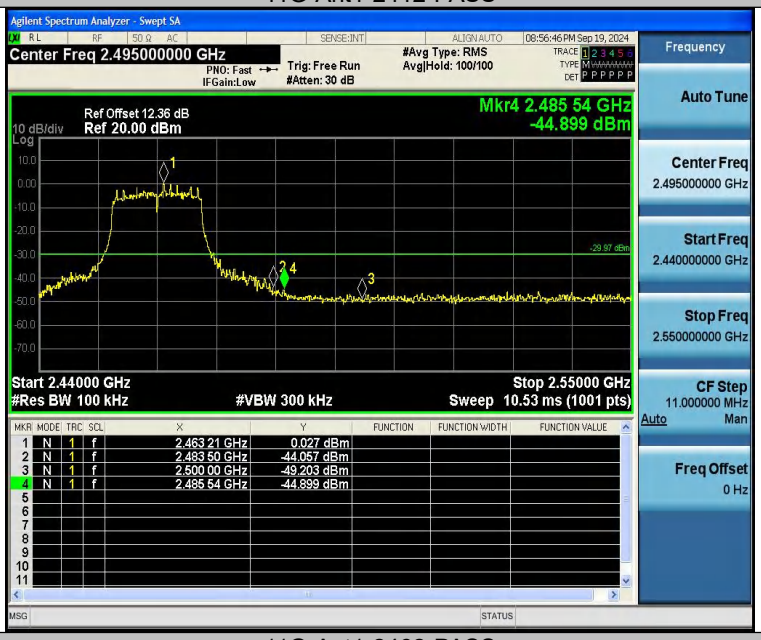
11B-Ant1-2412-PASS



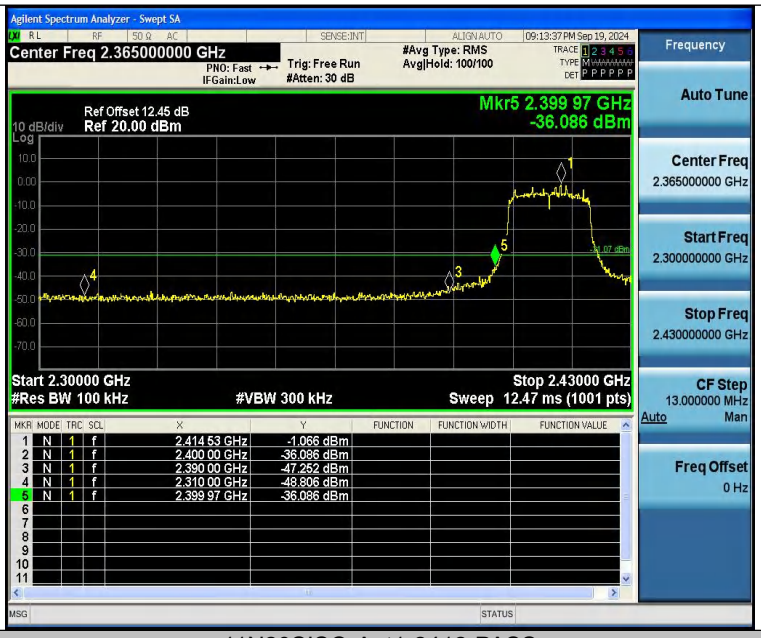
11B-Ant1-2462-PASS



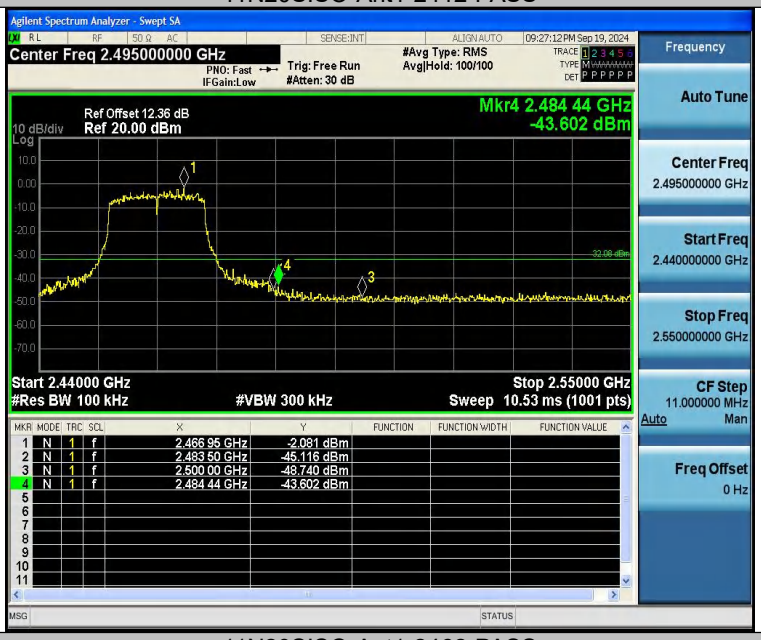
11G-Ant1-2412-PASS



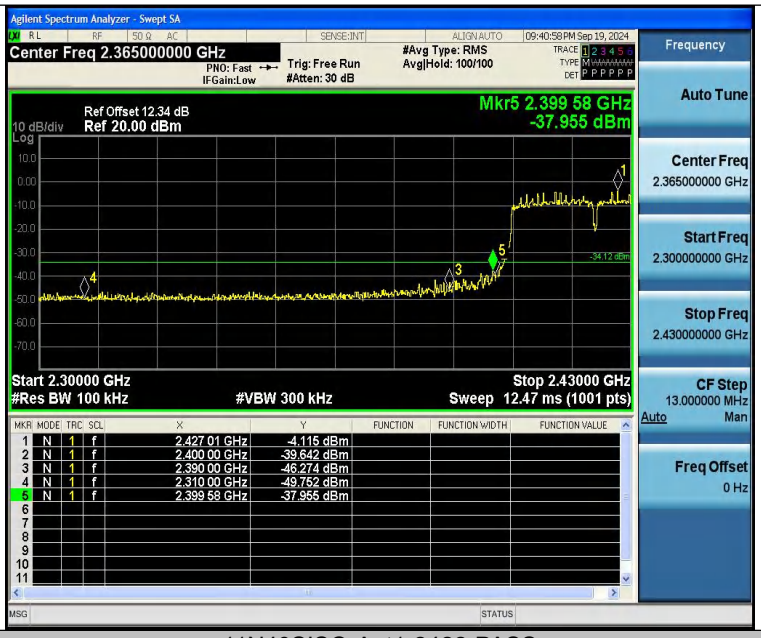
11G-Ant1-2462-PASS



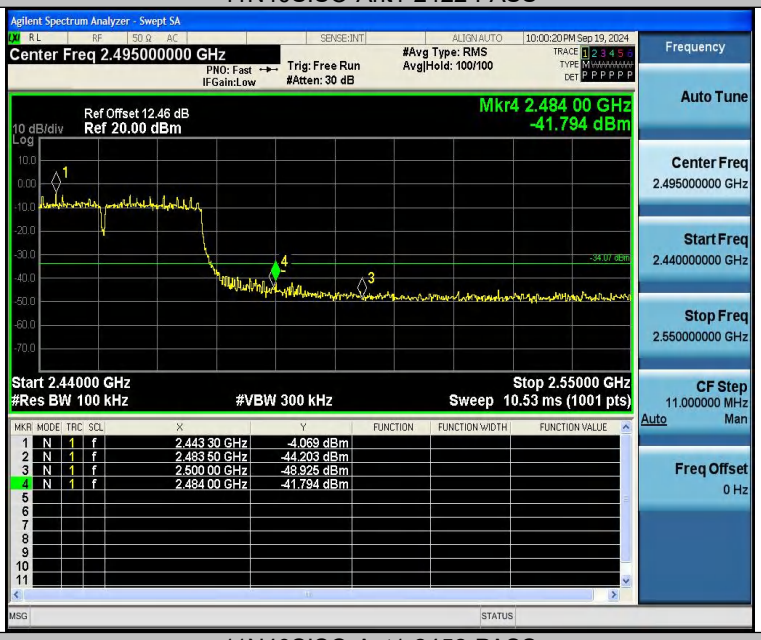
11N20SISO-Ant1-2412-PASS



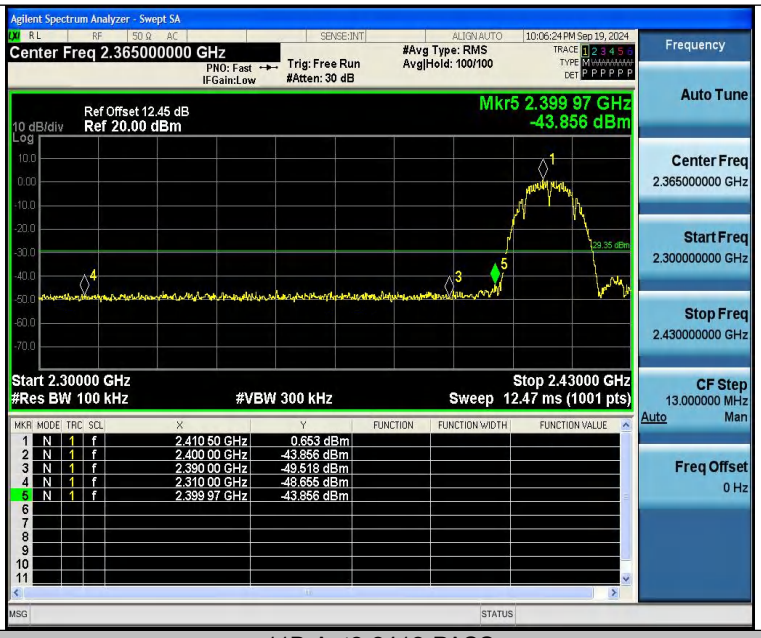
11N20SISO-Ant1-2462-PASS



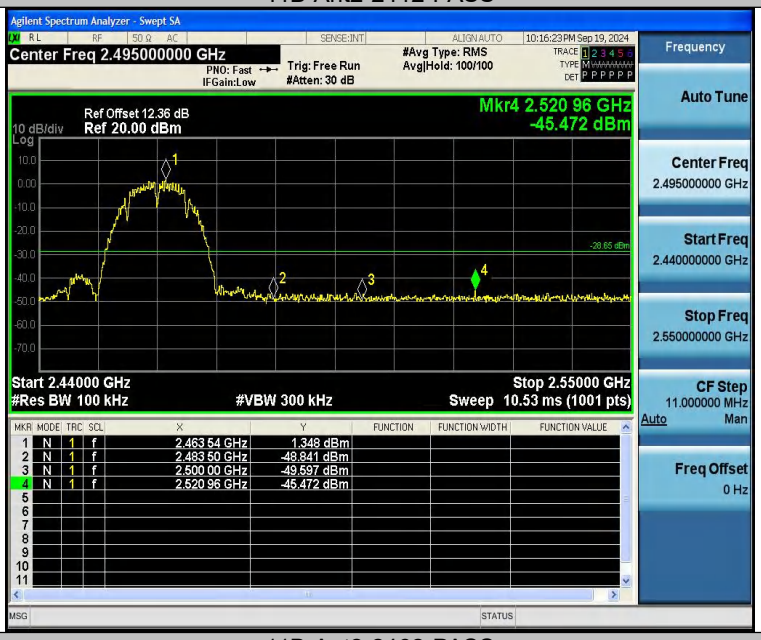
11N40SISO-Ant1-2422-PASS



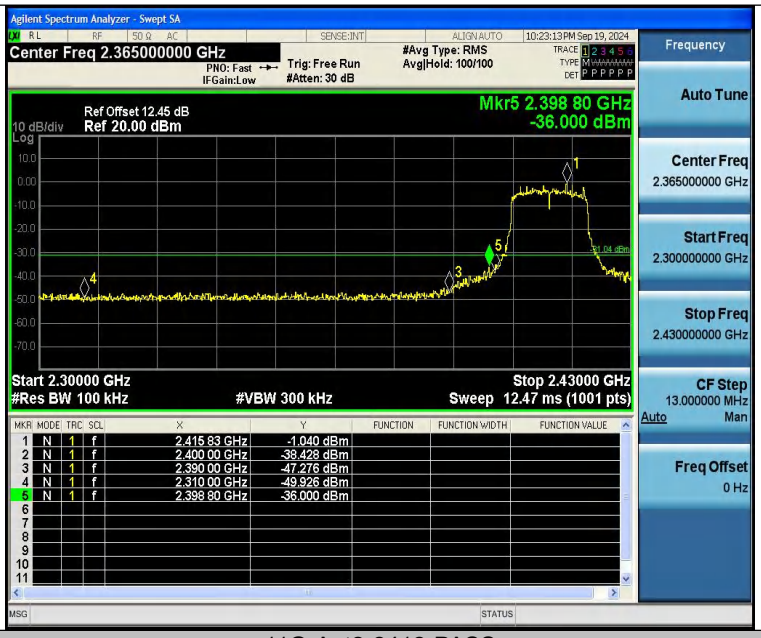
11N40SISO-Ant1-2452-PASS



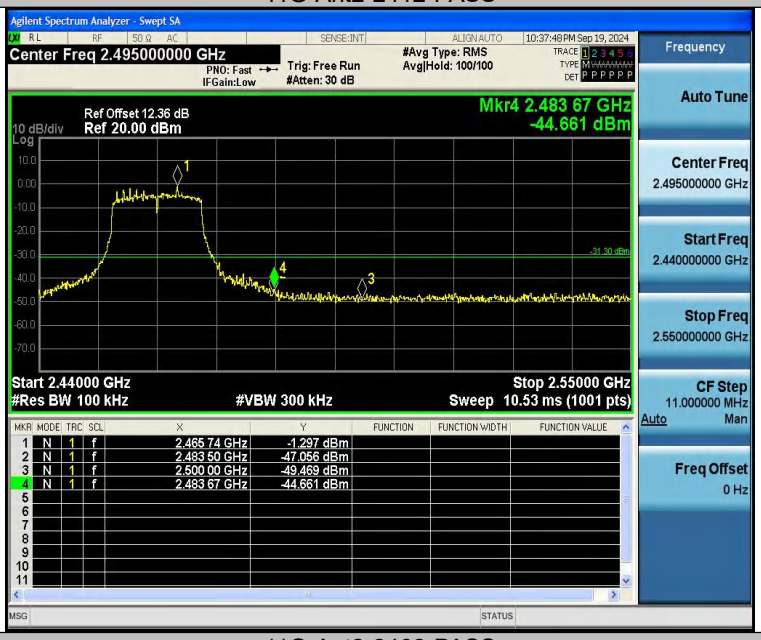
11B-Ant2-2412-PASS



11B-Ant2-2462-PASS



11G-Ant2-2412-PASS



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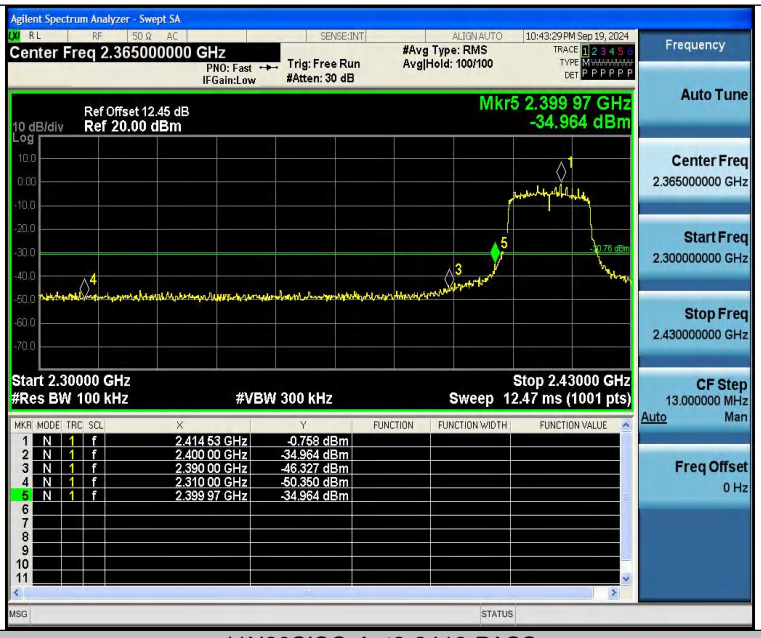
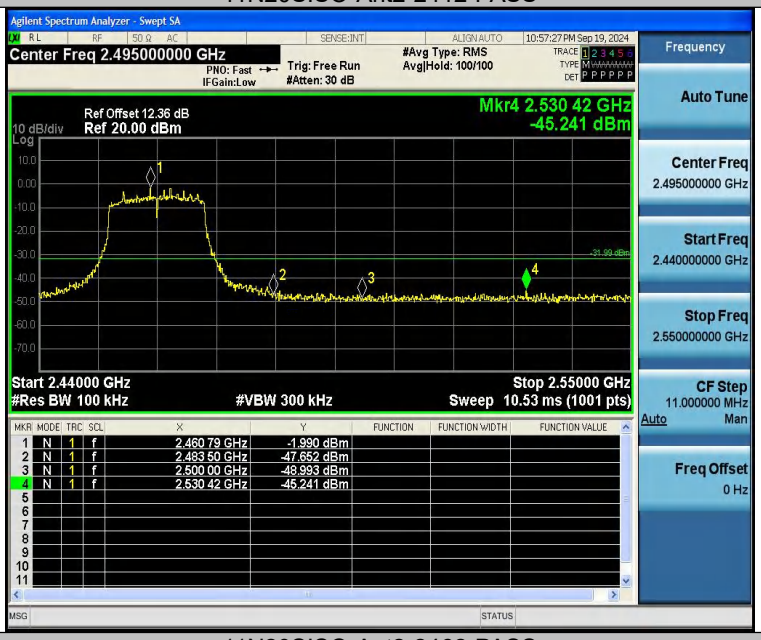
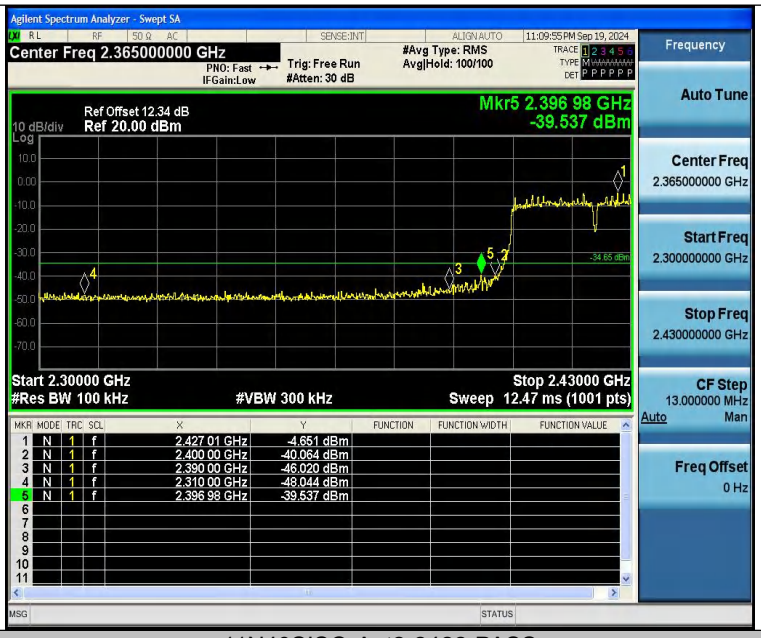


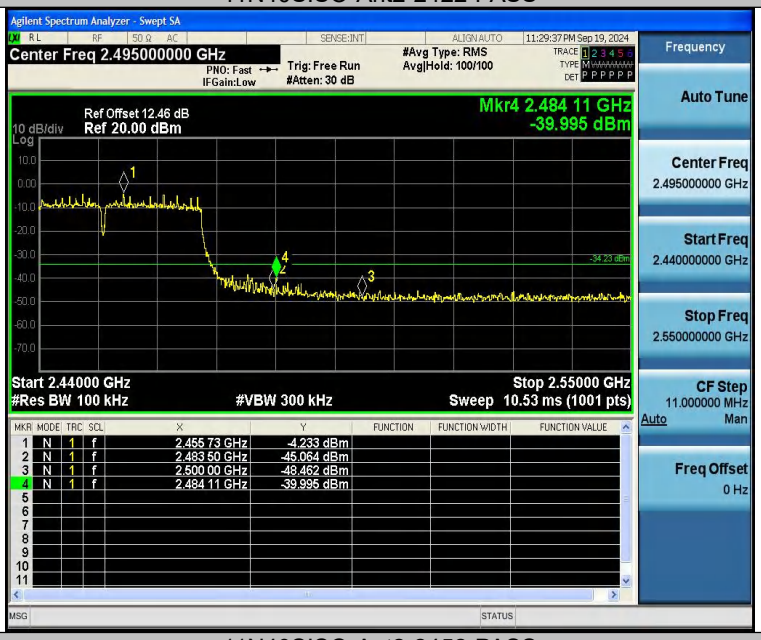
11N20SISO-Ant2-2412-PASS



11N20SISO-Ant2-2462-PASS



11N40SISO-Ant2-2422-PASS



11N40SISO-Ant2-2452-PASS

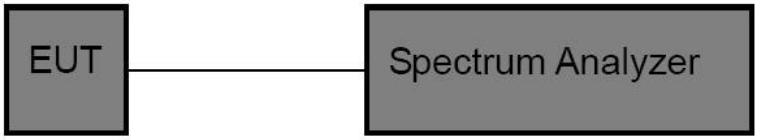
9 6dB Bandwidth Measurement

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

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	10.120	2431.960	2442.080	0.5	PASS
11B	Ant1	2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	15.680	2403.880	2419.560	0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	0.5	PASS
11G	Ant1	2462	16.280	2453.880	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.040	2403.480	2420.520	0.5	PASS
11N20SISO	Ant1	2437	15.680	2429.440	2445.120	0.5	PASS
11N20SISO	Ant1	2462	16.240	2454.120	2470.360	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
11N40SISO	Ant1	2437	33.920	2420.680	2454.600	0.5	PASS
11N40SISO	Ant1	2452	35.120	2434.480	2469.600	0.5	PASS
11B	Ant2	2412	10.080	2406.960	2417.040	0.5	PASS
11B	Ant2	2437	10.080	2431.960	2442.040	0.5	PASS
11B	Ant2	2462	9.960	2456.960	2466.920	0.5	PASS
11G	Ant2	2412	15.680	2404.080	2419.760	0.5	PASS
11G	Ant2	2437	15.920	2429.240	2445.160	0.5	PASS
11G	Ant2	2462	15.640	2454.480	2470.120	0.5	PASS
11N20SISO	Ant2	2412	15.680	2403.880	2419.560	0.5	PASS
11N20SISO	Ant2	2437	16.680	2428.480	2445.160	0.5	PASS
11N20SISO	Ant2	2462	14.680	2455.680	2470.360	0.5	PASS
11N40SISO	Ant2	2422	35.440	2404.080	2439.520	0.5	PASS
11N40SISO	Ant2	2437	33.840	2419.480	2453.320	0.5	PASS

11N40SISO	Ant2	2452	35.440	2434.080	2469.520	0.5	PASS

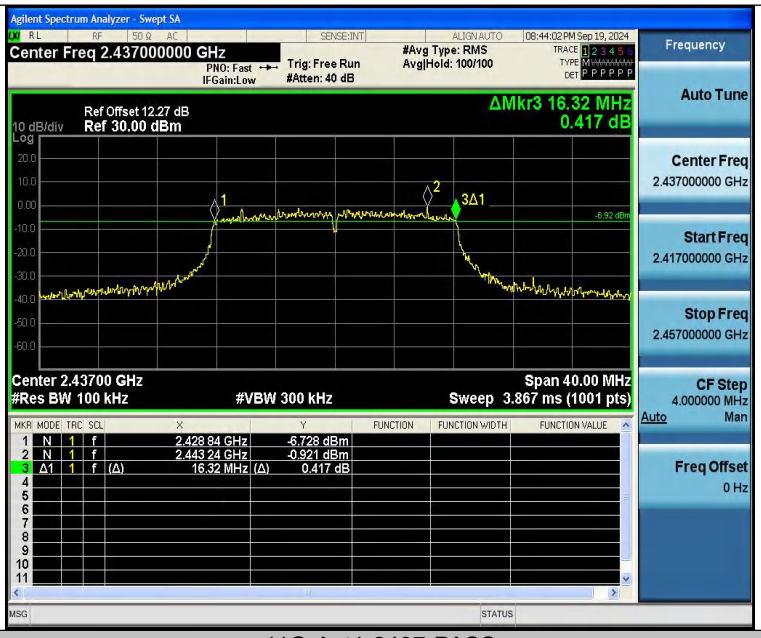
Test Graphs:

11B-Ant1-2412-PASS

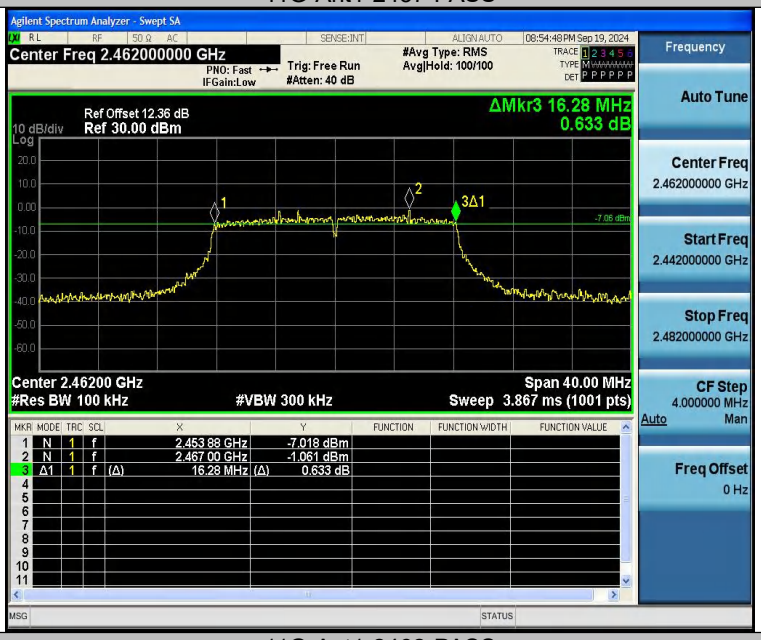
11B-Ant1-2437-PASS

11B-Ant1-2462-PASS

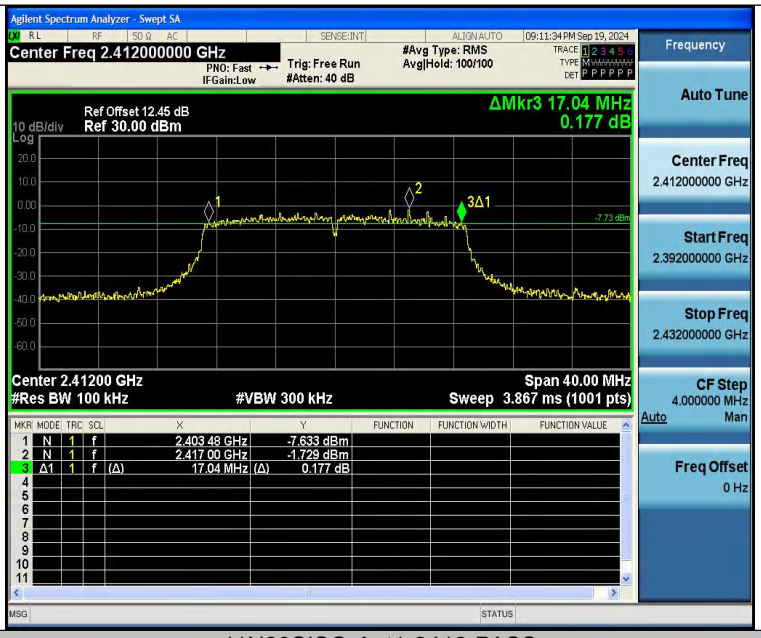
11G-Ant1-2412-PASS



11G-Ant1-2437-PASS

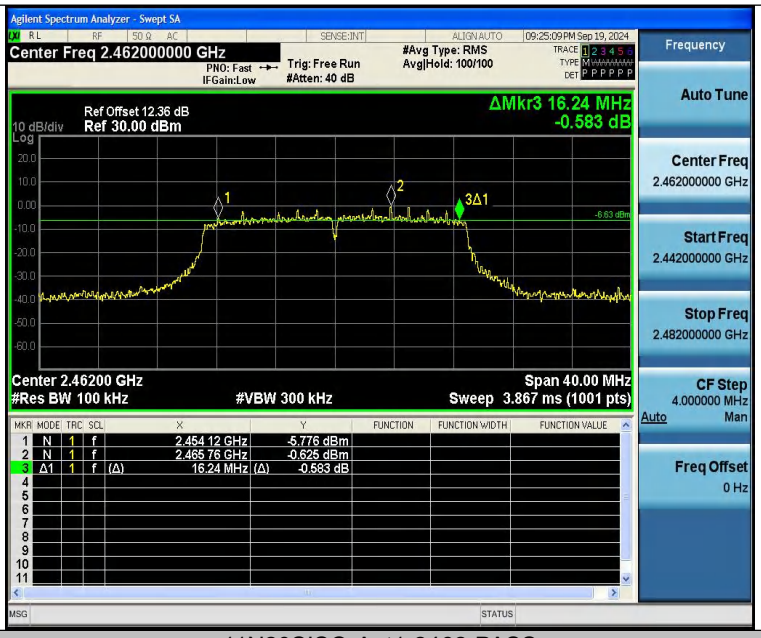


11G-Ant1-2462-PASS

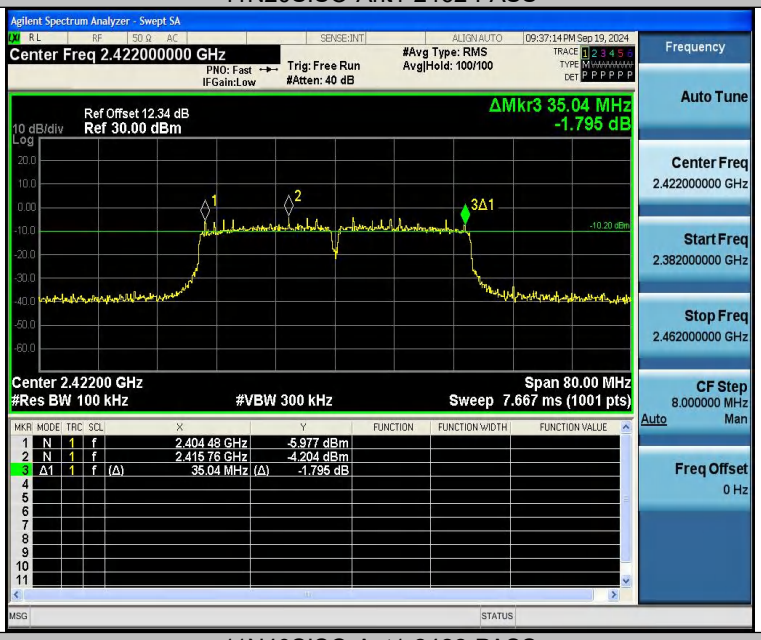


11N20SISO-Ant1-2412-PASS

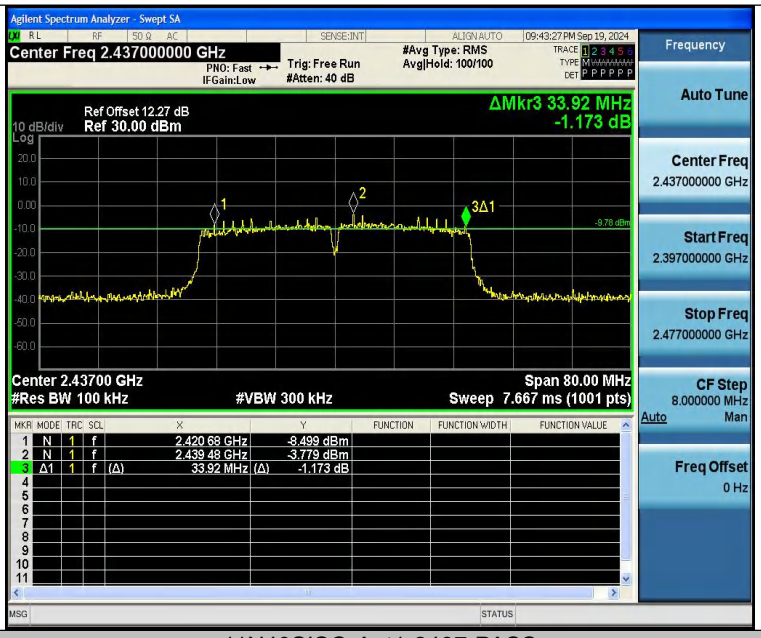
11N20SISO-Ant1-2437-PASS



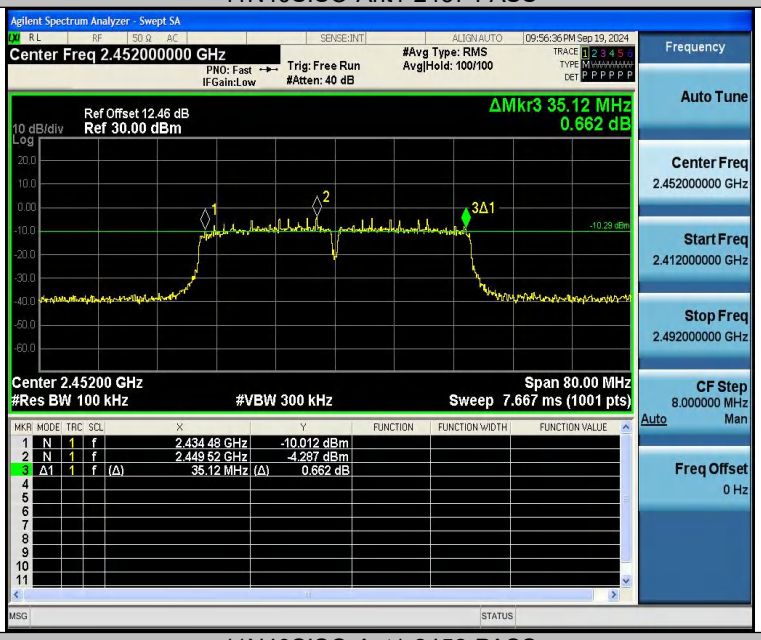
11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

11B-Ant2-2412-PASS

11B-Ant2-2437-PASS