

Case No. : <u>GST20221107009-1-1</u>	
Ambient Condition: <u>24</u> °C, <u>51</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2022.11.09</u>	Test Engineer: <u>Jenny zeng</u>

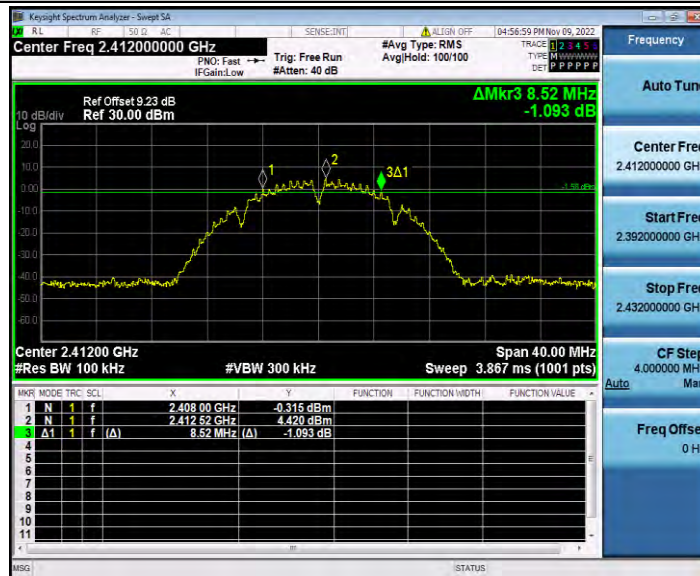
Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.520	2408.000	2416.520	0.5	PASS
		2437	7.600	2433.440	2441.040	0.5	PASS
		2462	8.040	2457.960	2466.000	0.5	PASS
11G	Ant1	2412	15.040	2404.480	2419.520	0.5	PASS
		2437	12.840	2430.680	2443.520	0.5	PASS
		2462	14.160	2455.360	2469.520	0.5	PASS
11N20SISO	Ant1	2412	14.000	2405.760	2419.760	0.5	PASS
		2437	15.600	2429.520	2445.120	0.5	PASS
		2462	15.080	2454.480	2469.560	0.5	PASS
11N40SISO	Ant1	2422	33.920	2405.680	2439.600	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	32.640	2436.960	2469.600	0.5	PASS

Test Graphs

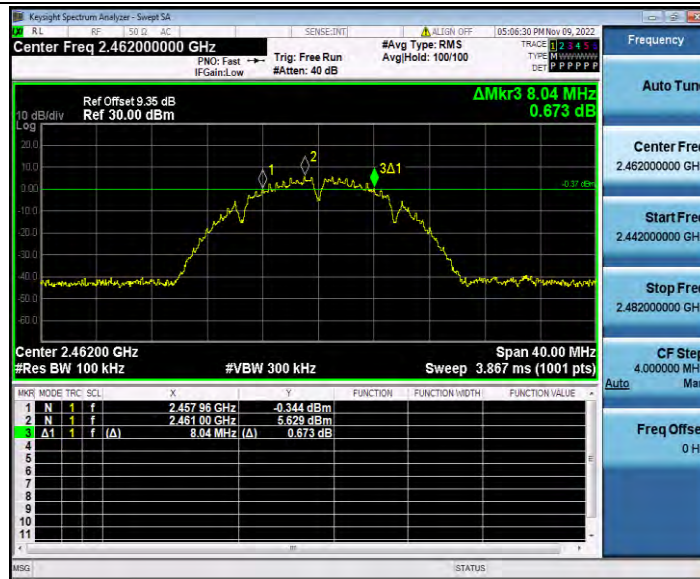
11B_Ant1_2412



11B_Ant1_2437



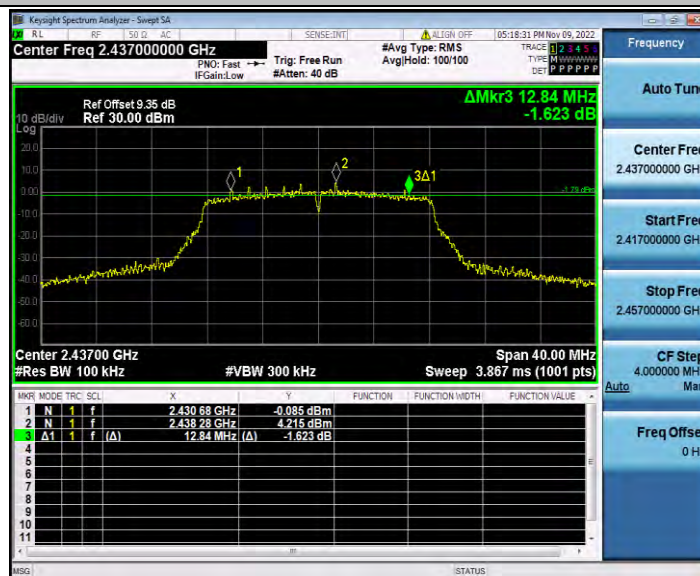
11B_Ant1_2462



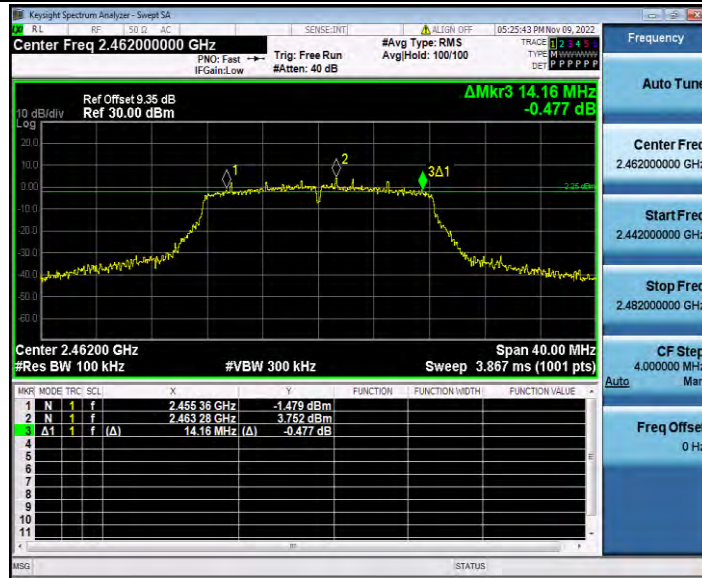
11G_Ant1_2412



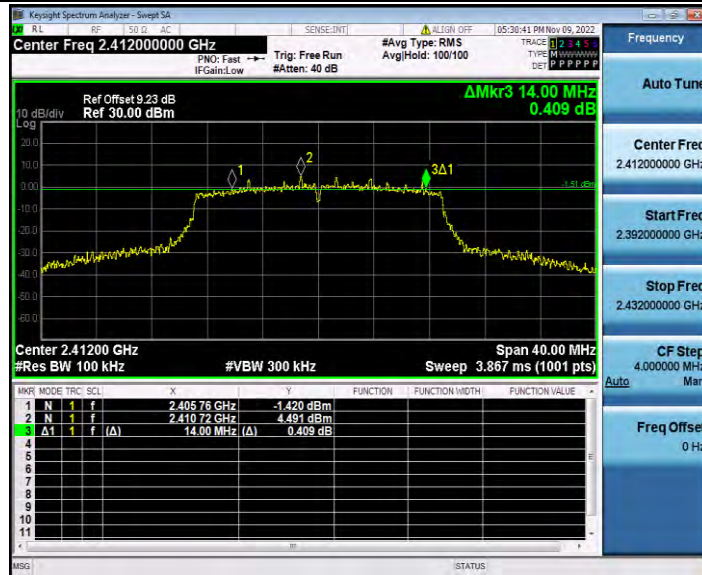
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



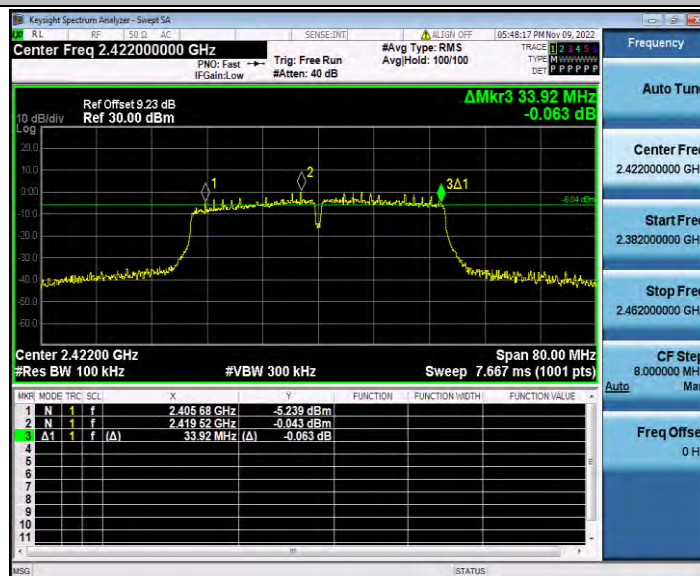
11N20SISO_Ant1_2437



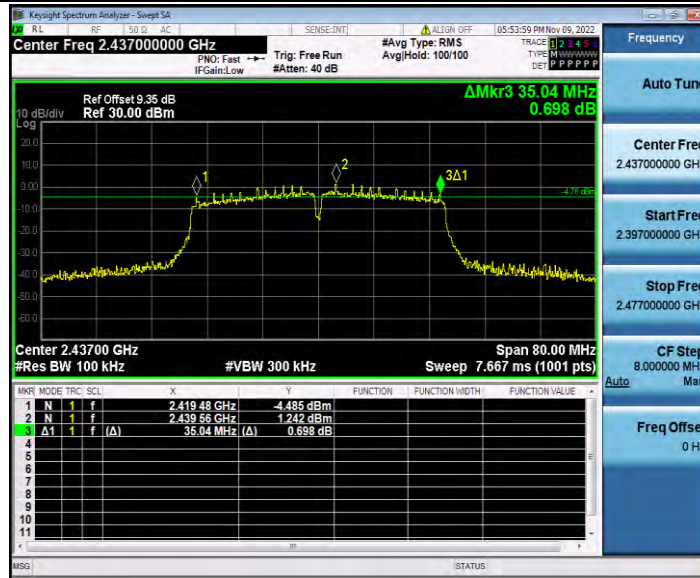
11N20SISO_Ant1_2462



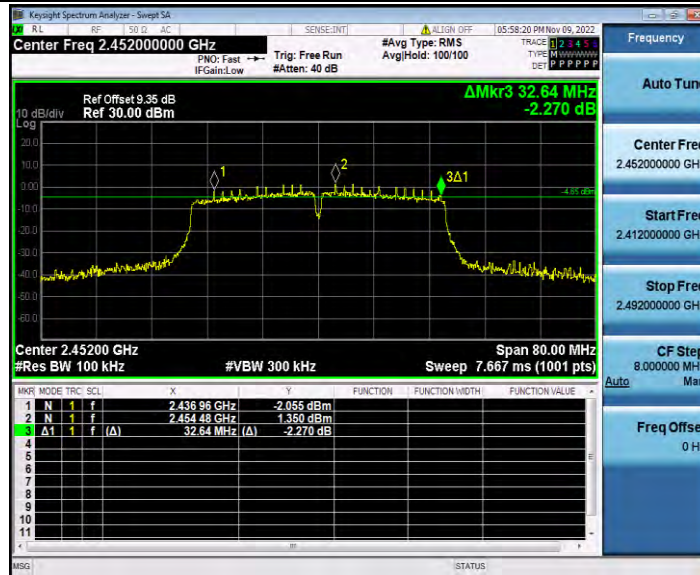
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



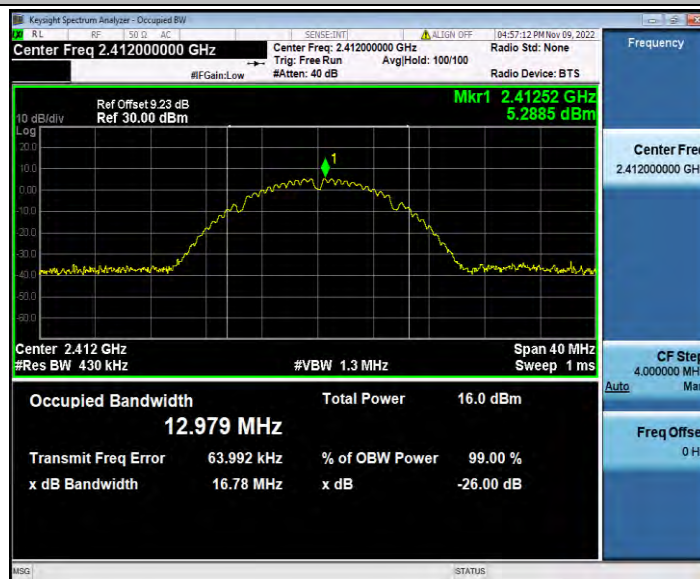
Appendix A.2: Occupied Channel Bandwidth

Test Result

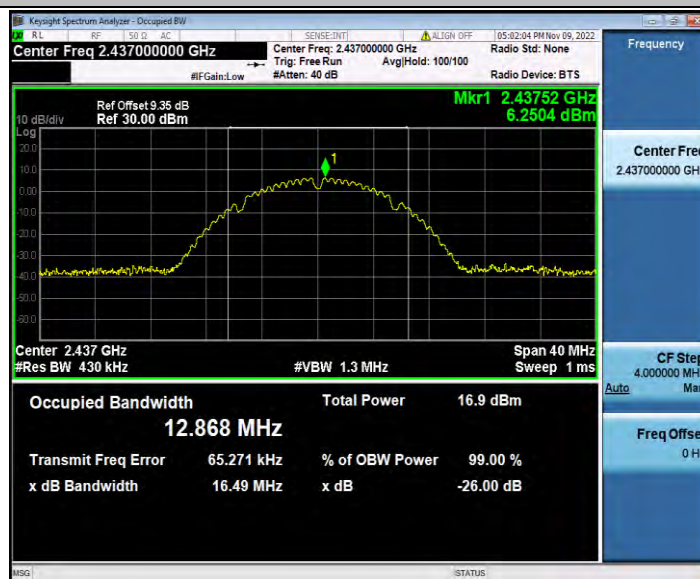
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.979	2405.574	2418.553	---	---
		2437	12.868	2430.631	2443.499	---	---
		2462	12.866	2455.602	2468.468	---	---
11G	Ant1	2412	16.942	2403.621	2420.563	---	---
		2437	16.783	2428.661	2445.444	---	---
		2462	16.810	2453.624	2470.434	---	---
11N20SISO	Ant1	2412	17.924	2403.066	2420.990	---	---
		2437	17.812	2428.130	2445.942	---	---
		2462	17.768	2453.111	2470.879	---	---
11N40SISO	Ant1	2422	36.127	2404.115	2440.242	---	---
		2437	36.116	2419.104	2455.220	---	---
		2452	36.217	2433.984	2470.201	---	---

Test Graphs

11B_Ant1_2412



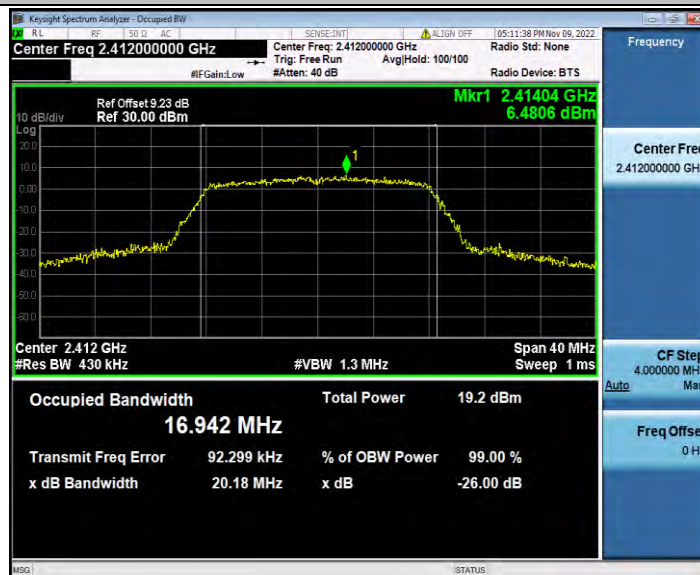
11B_Ant1_2437



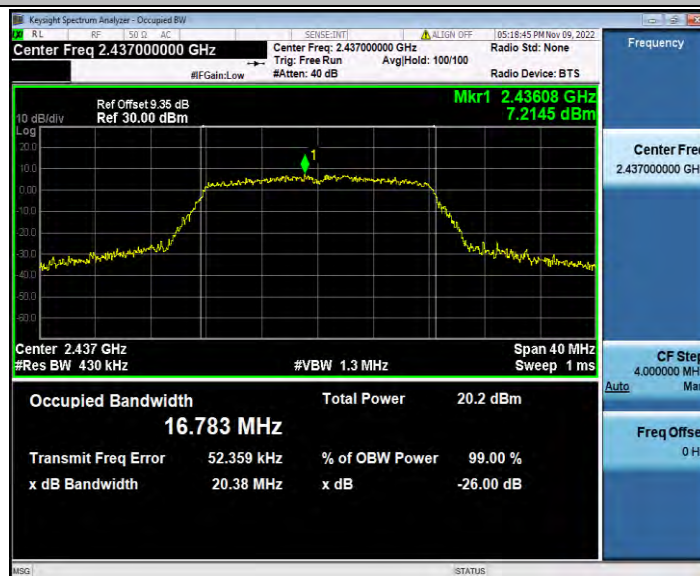
11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



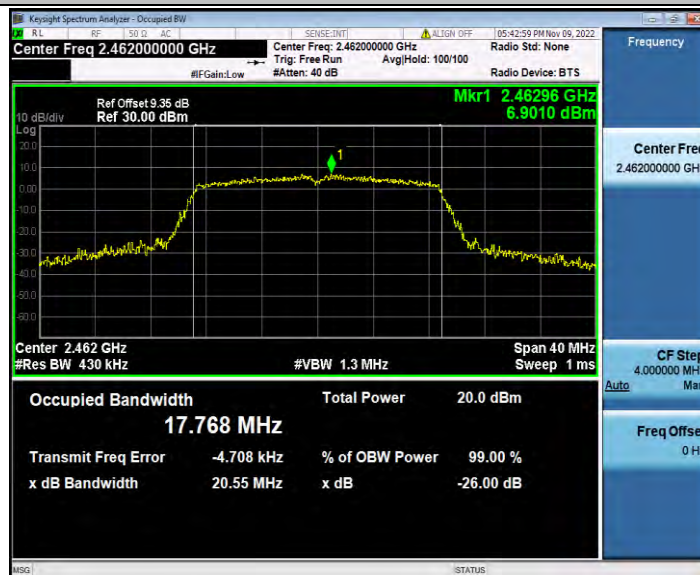
11N20SISO_Ant1_2412



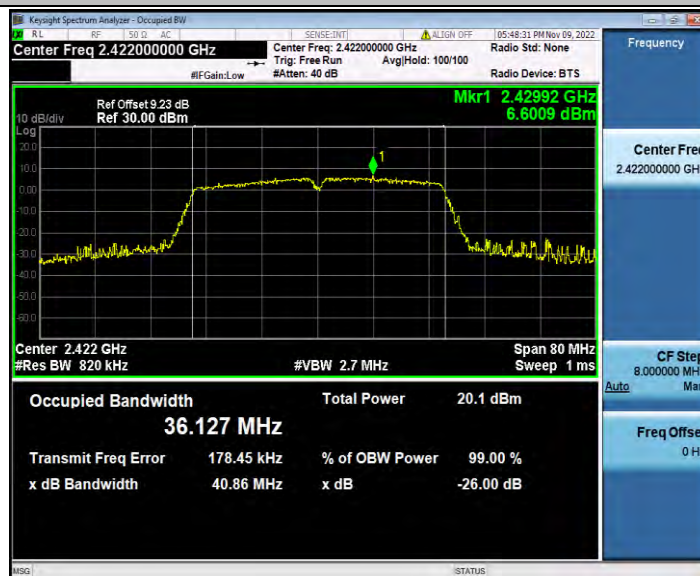
11N20SISO_Ant1_2437



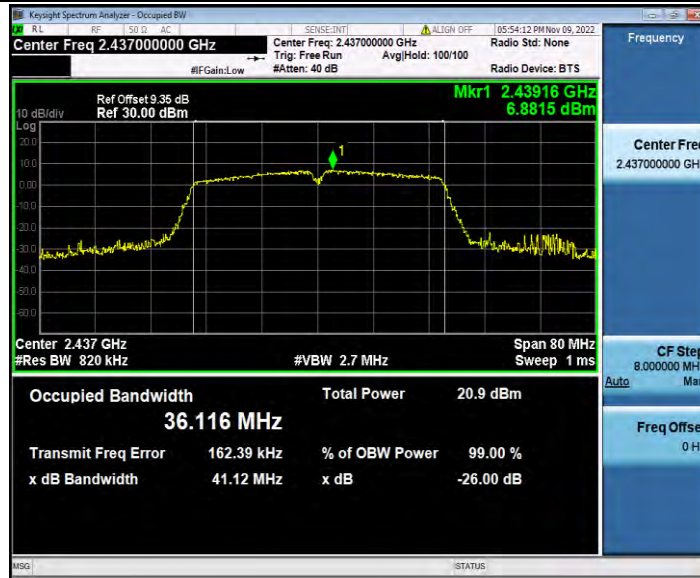
11N20SISO_Ant1_2462



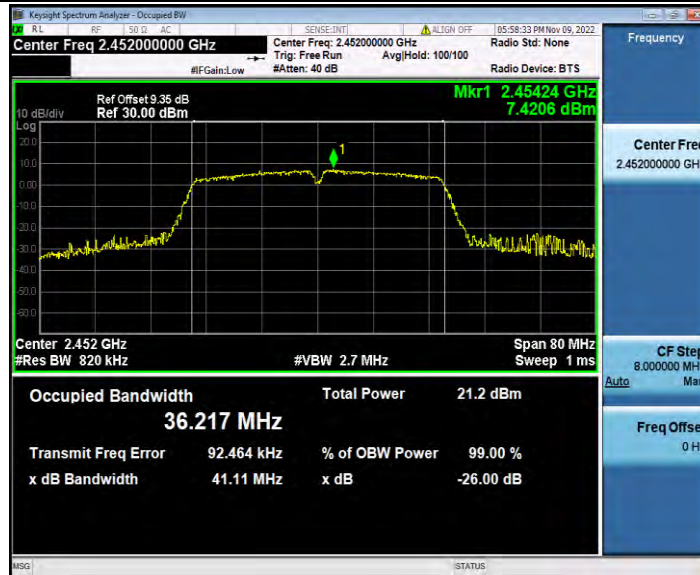
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.3: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.03	≤30.00	PASS
		2437	17.19	≤30.00	PASS
		2462	17.43	≤30.00	PASS
11G	Ant1	2412	20.26	≤30.00	PASS
		2437	21.31	≤30.00	PASS
		2462	21.43	≤30.00	PASS
11N20SISO	Ant1	2412	22.13	≤30.00	PASS
		2437	20.67	≤30.00	PASS
		2462	21.12	≤30.00	PASS
11N40SISO	Ant1	2422	20.48	≤30.00	PASS
		2437	21.31	≤30.00	PASS
		2452	21.57	≤30.00	PASS

Appendix A.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.49	≤8.00	PASS
		2437	-8.78	≤8.00	PASS
		2462	-7.53	≤8.00	PASS
11G	Ant1	2412	-11.29	≤8.00	PASS
		2437	-10.85	≤8.00	PASS
		2462	-10.81	≤8.00	PASS
11N20SISO	Ant1	2412	-10.04	≤8.00	PASS
		2437	-10.09	≤8.00	PASS
		2462	-9.46	≤8.00	PASS
11N40SISO	Ant1	2422	-13.87	≤8.00	PASS
		2437	-13.26	≤8.00	PASS
		2452	-13.39	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



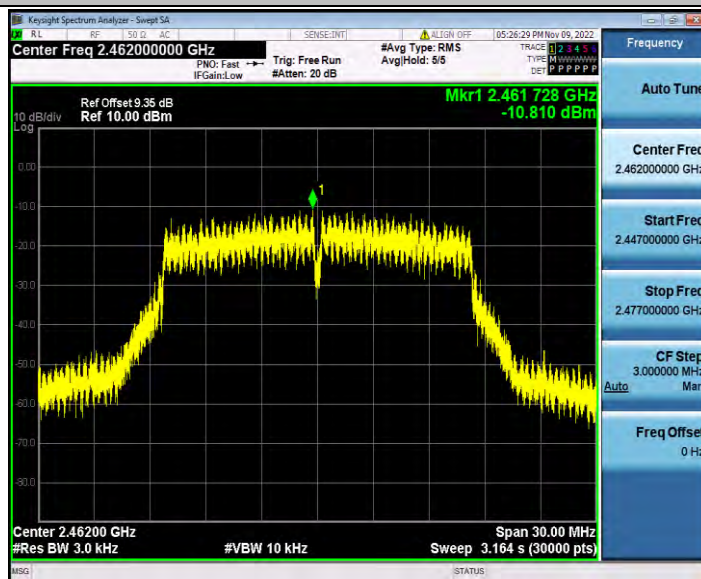
11G_Ant1_2412



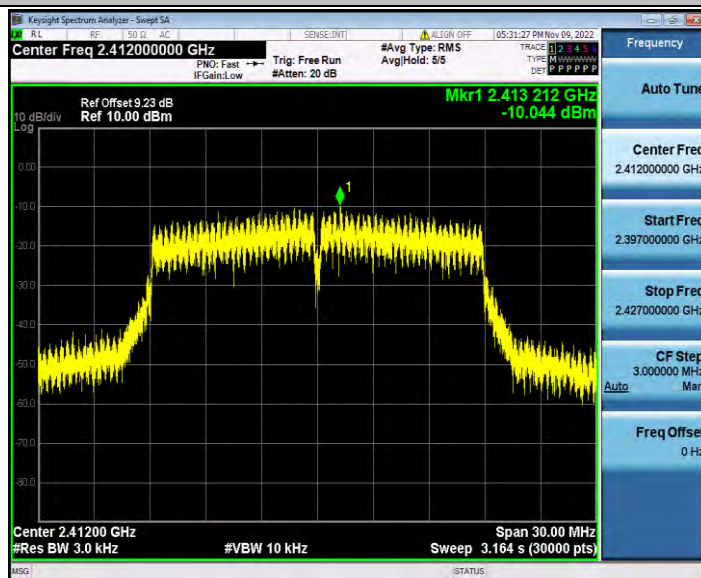
11G_Ant1_2437



11G_Ant1_2462



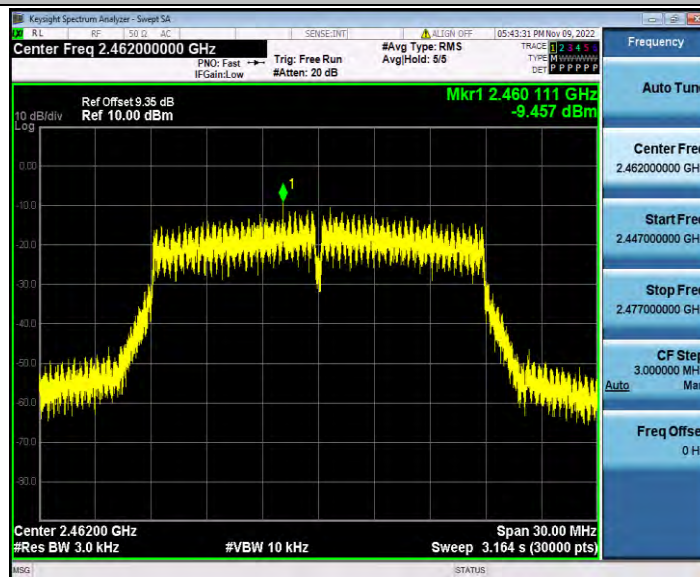
11N20SISO_Ant1_2412



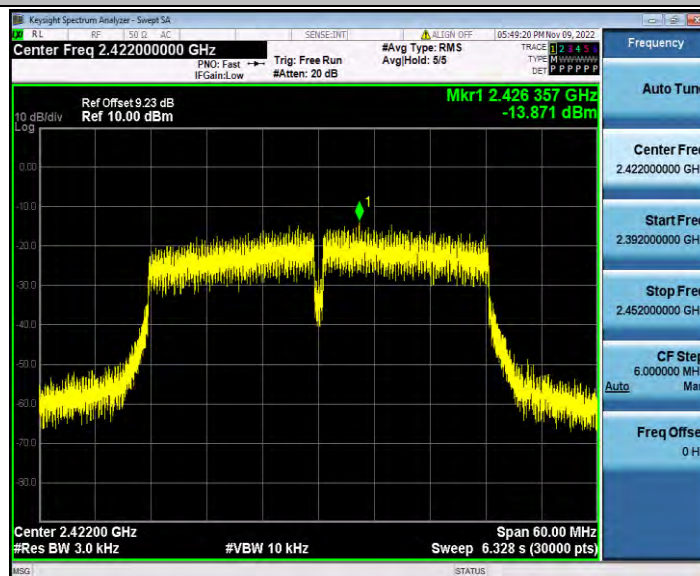
11N20SISO_Ant1_2437



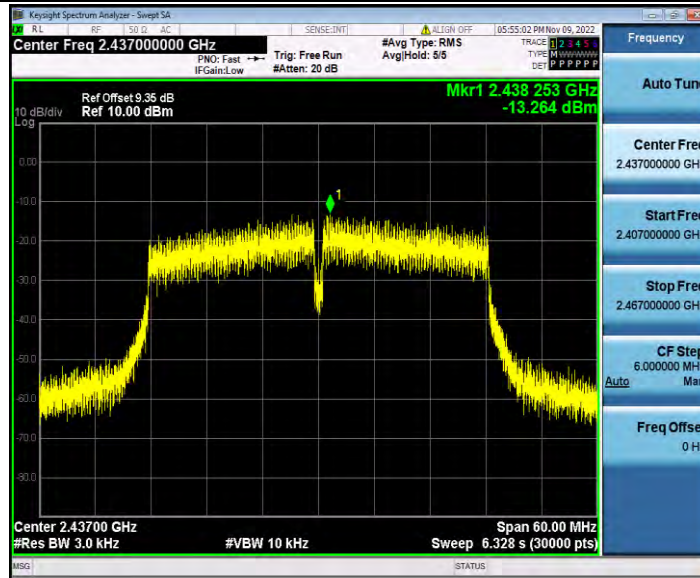
11N20SISO_Ant1_2462



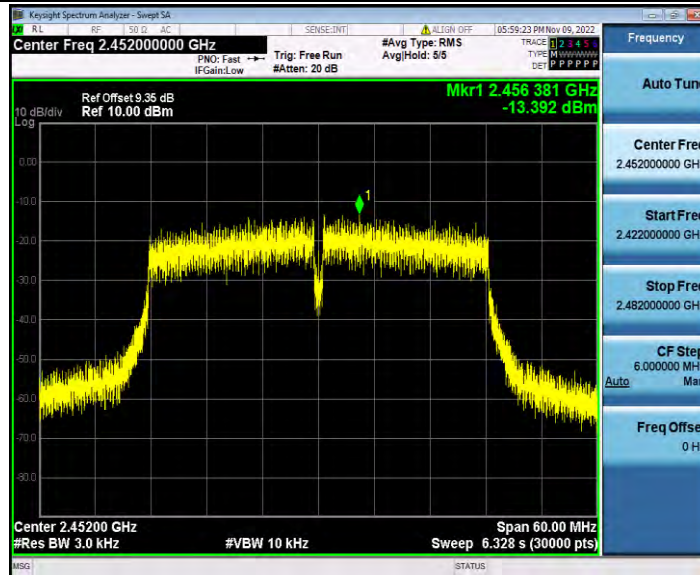
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



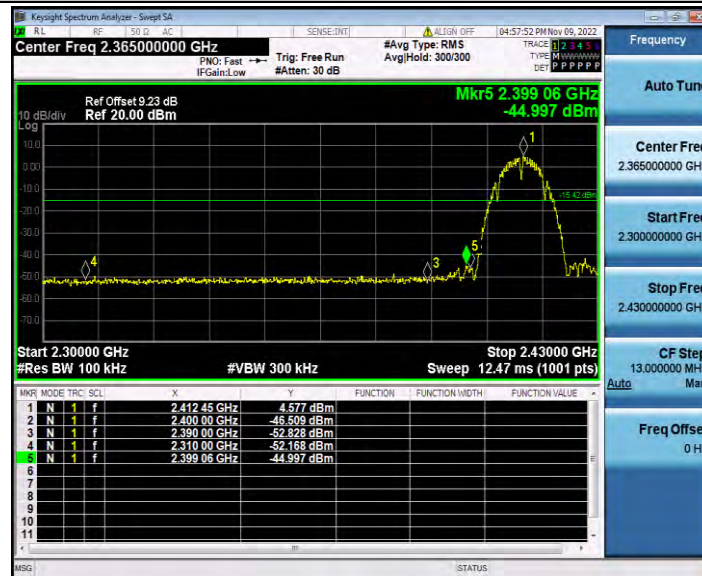
Appendix A.5: Band edge measurements

Test Result

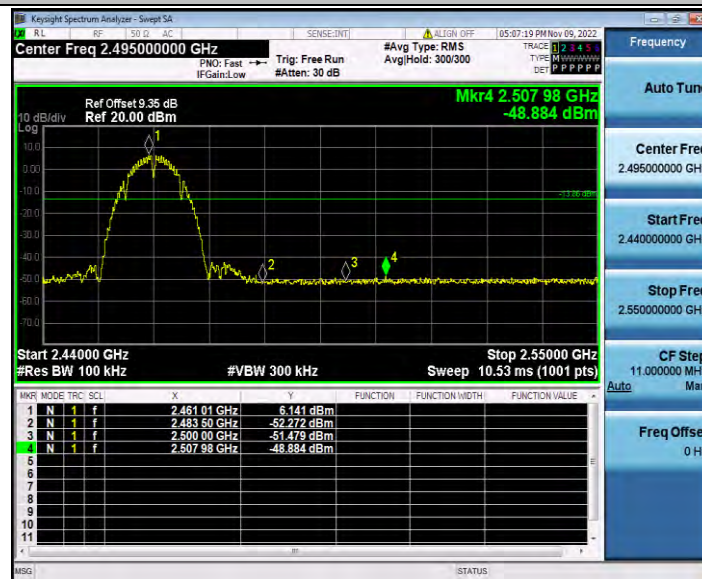
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.58	-45	≤ -15.42	PASS
		High	2462	6.14	-48.88	≤ -13.86	PASS
11G	Ant1	Low	2412	2.87	-32.27	≤ -17.13	PASS
		High	2462	4.43	-45.21	≤ -15.57	PASS
11N20SISO	Ant1	Low	2412	4.37	-25.41	≤ -15.63	PASS
		High	2462	4.25	-46.21	≤ -15.75	PASS
11N40SISO	Ant1	Low	2422	0.35	-34.83	≤ -19.65	PASS
		High	2452	1.38	-35.63	≤ -18.62	PASS

Test Graphs

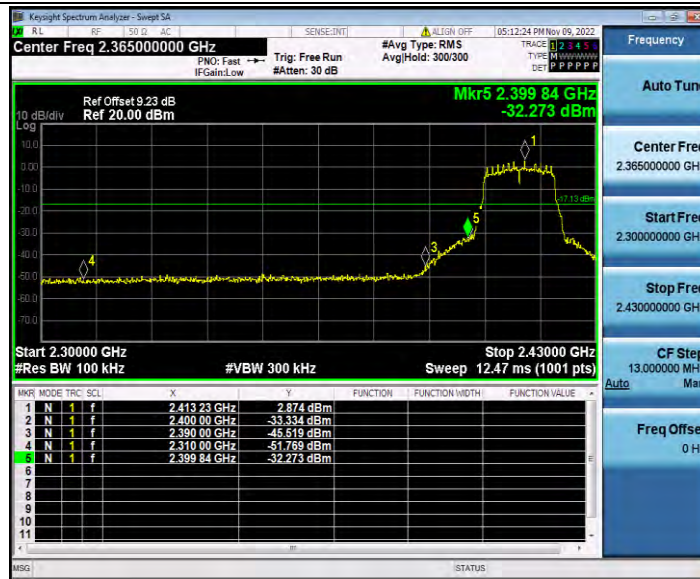
11B_Ant1_Low_2412



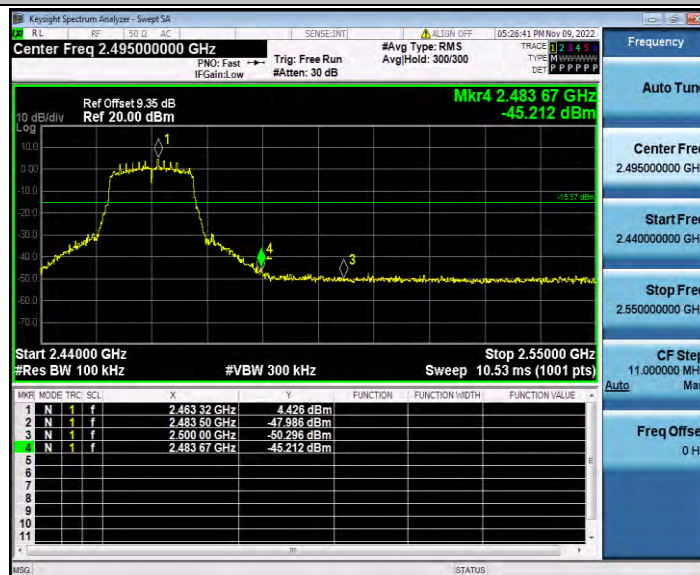
11B_Ant1_High_2462



11G_Ant1_Low_2412



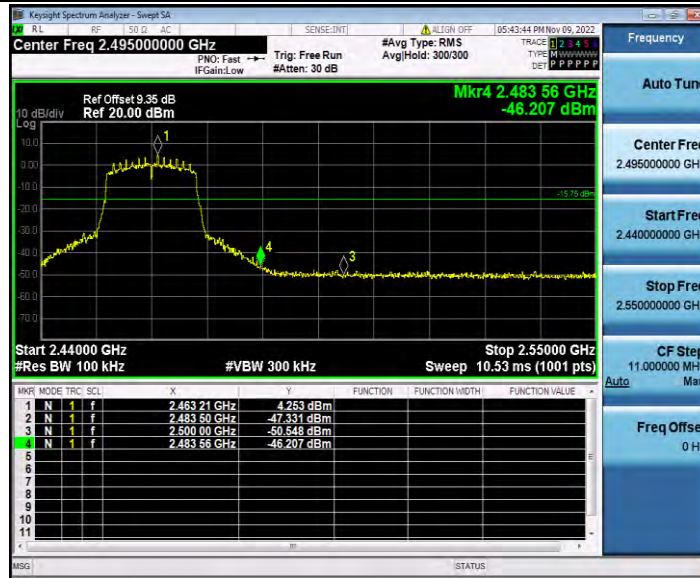
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix A.6: Conducted Spurious Emission

Test Result

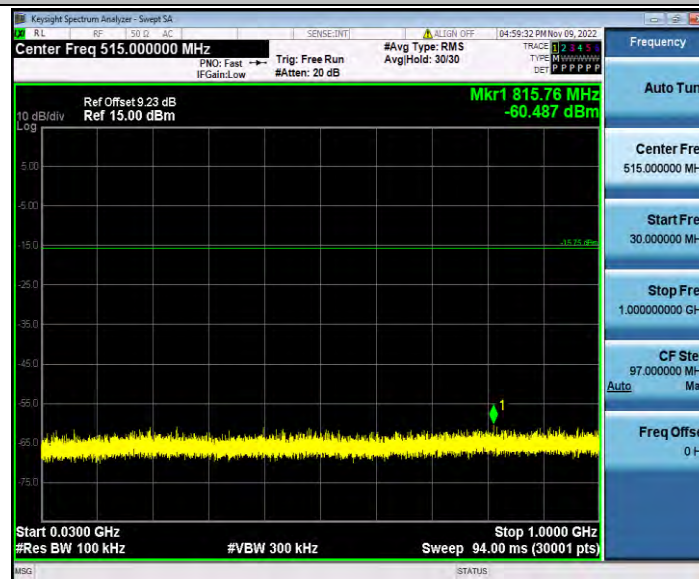
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.25	4.25	---	PASS
			30~1000	4.25	-60.49	≤ -15.75	PASS
			1000~26500	4.25	-44.08	≤ -15.75	PASS
		2437	Reference	4.97	4.97	---	PASS
			30~1000	4.97	-60.42	≤ -15.03	PASS
			1000~26500	4.97	-44.12	≤ -15.03	PASS
		2462	Reference	4.98	4.98	---	PASS
			30~1000	4.98	-60.27	≤ -15.02	PASS
			1000~26500	4.98	-45.61	≤ -15.02	PASS
11G	Ant1	2412	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-60.45	≤ -20.54	PASS
			1000~26500	-0.54	-47.95	≤ -20.54	PASS
		2437	Reference	2.05	2.05	---	PASS
			30~1000	2.05	-60.35	≤ -17.95	PASS
			1000~26500	2.05	-47.51	≤ -17.95	PASS
		2462	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-59.86	≤ -18.08	PASS
			1000~26500	1.92	-47.48	≤ -18.08	PASS
11N20SISO	Ant1	2412	Reference	2.88	2.88	---	PASS
			30~1000	2.88	-60.51	≤ -17.12	PASS
			1000~26500	2.88	-47.06	≤ -17.12	PASS
		2437	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-59.98	≤ -20.83	PASS
			1000~26500	-0.83	-47.1	≤ -20.83	PASS
		2462	Reference	0.76	0.76	---	PASS
			30~1000	0.76	-59.9	≤ -19.24	PASS
			1000~26500	0.76	-47.46	≤ -19.24	PASS
11N40SISO	Ant1	2422	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-60.46	≤ -20.96	PASS
			1000~26500	-0.96	-46.56	≤ -20.96	PASS
		2437	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-60.42	≤ -18.76	PASS
			1000~26500	1.24	-47.36	≤ -18.76	PASS
		2452	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-60.57	≤ -19.97	PASS
			1000~26500	0.03	-47.36	≤ -19.97	PASS

Test Graphs

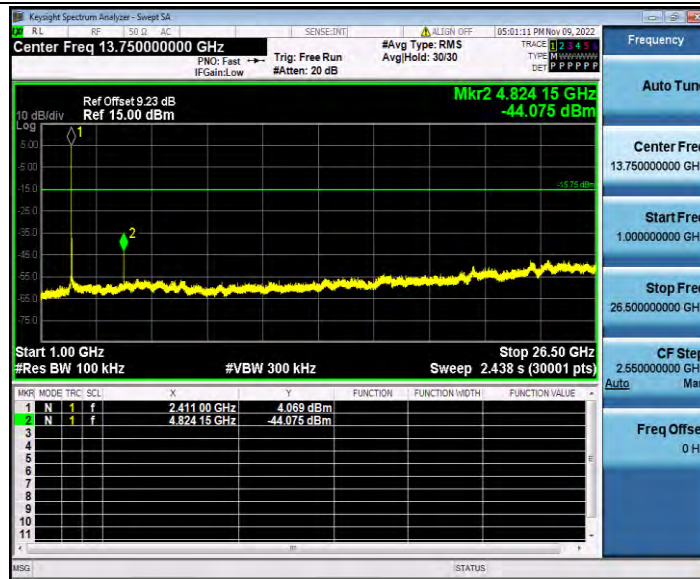
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



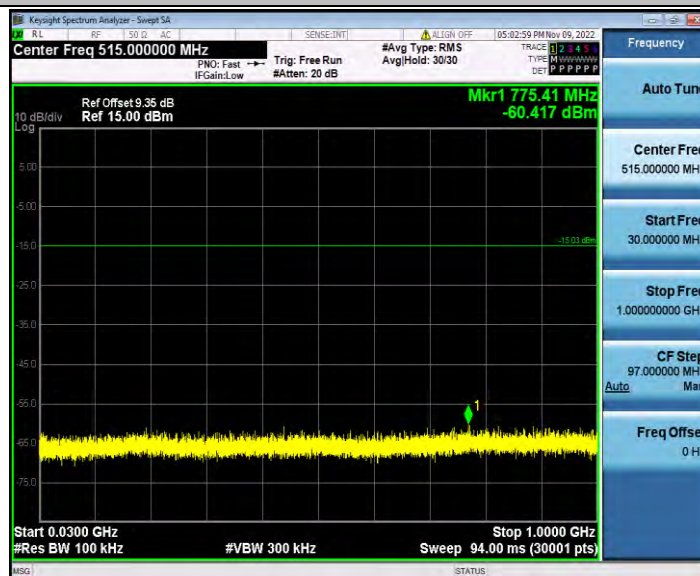
11B_Ant1_2412_1000~26500



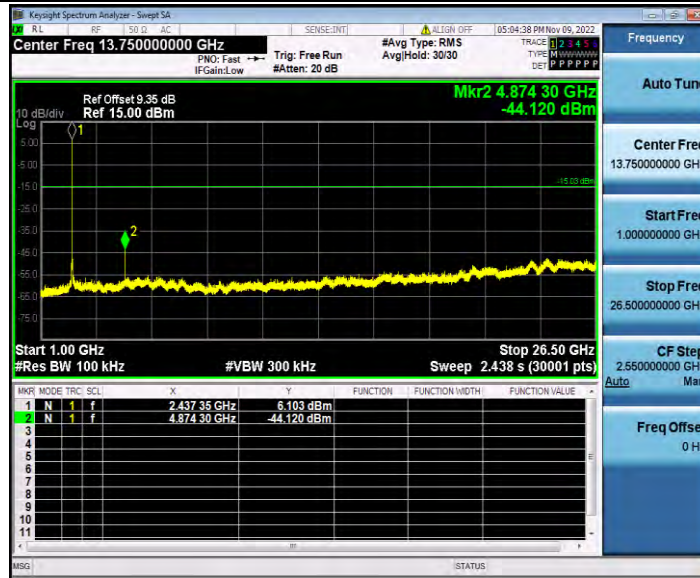
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



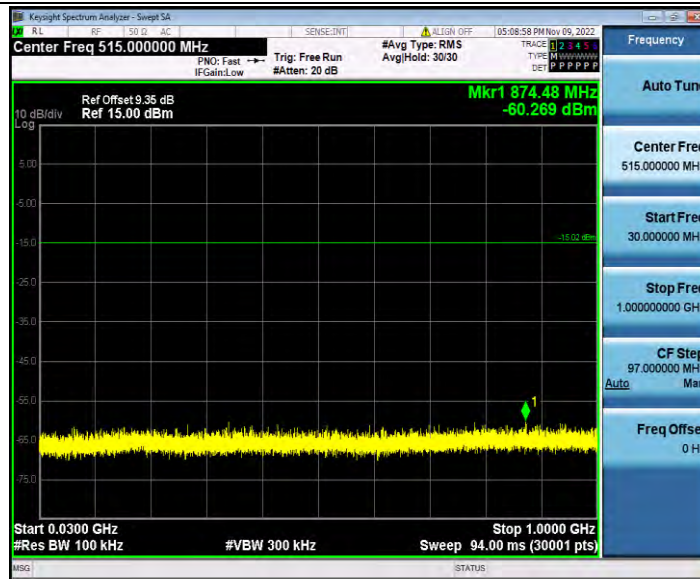
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



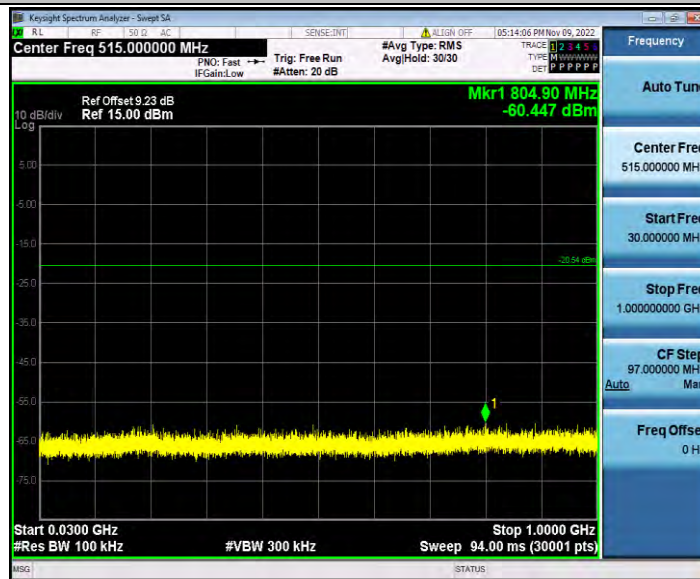
11B_Ant1_2462_1000~26500



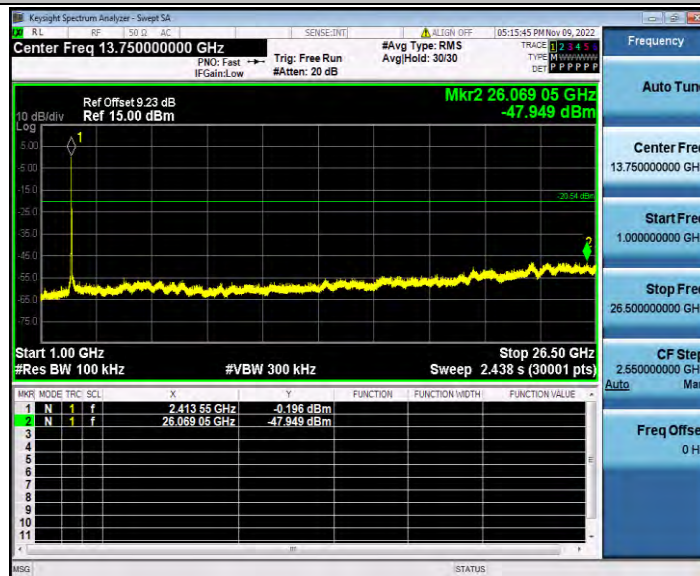
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



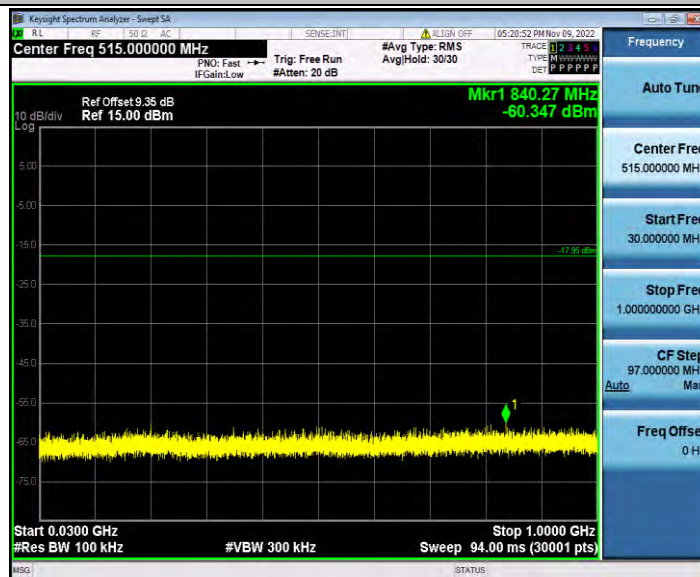
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



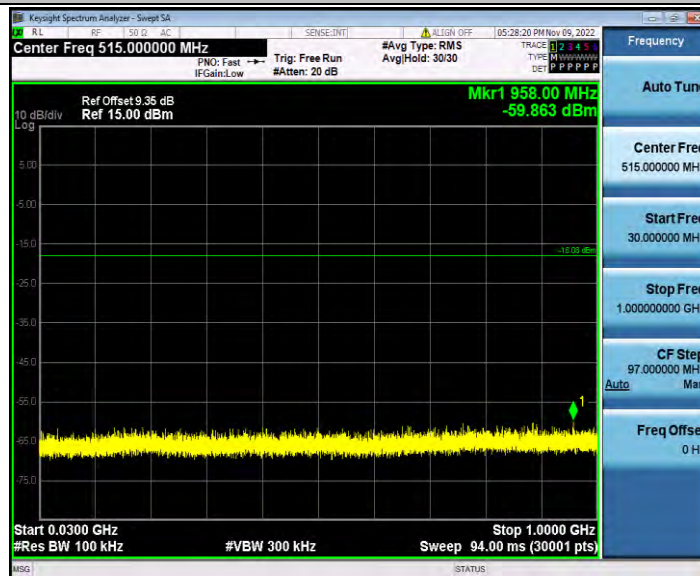
11G_Ant1_2437_1000~26500



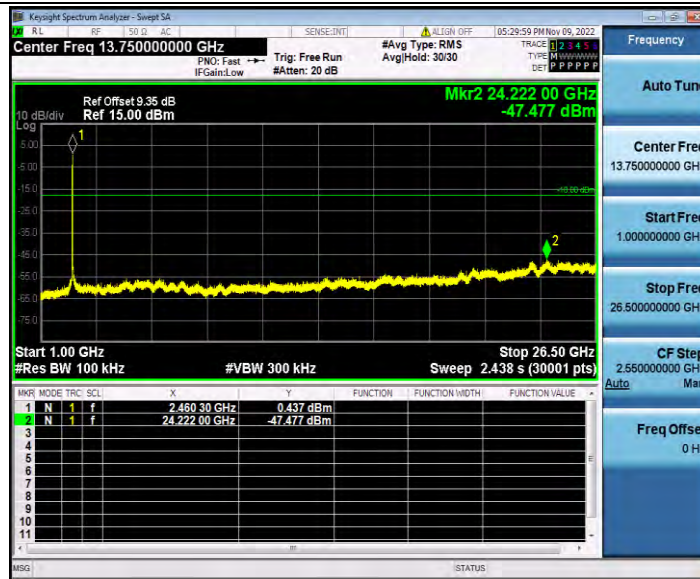
11G_Ant1_2462_0~Reference



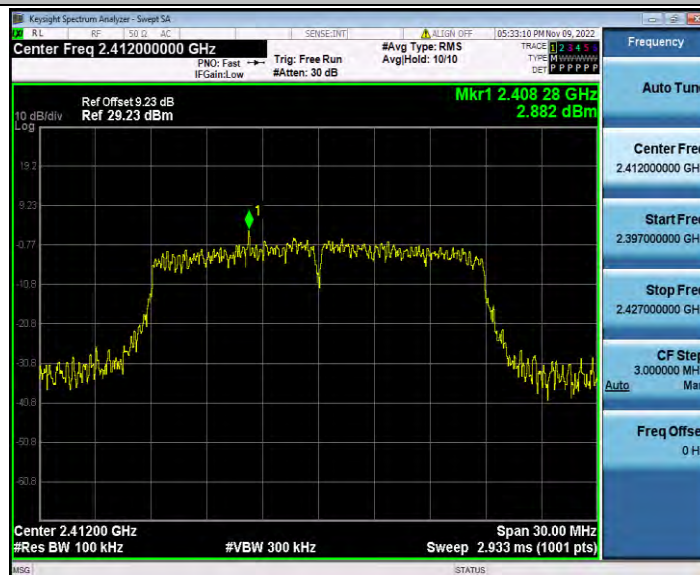
11G_Ant1_2462_30~1000



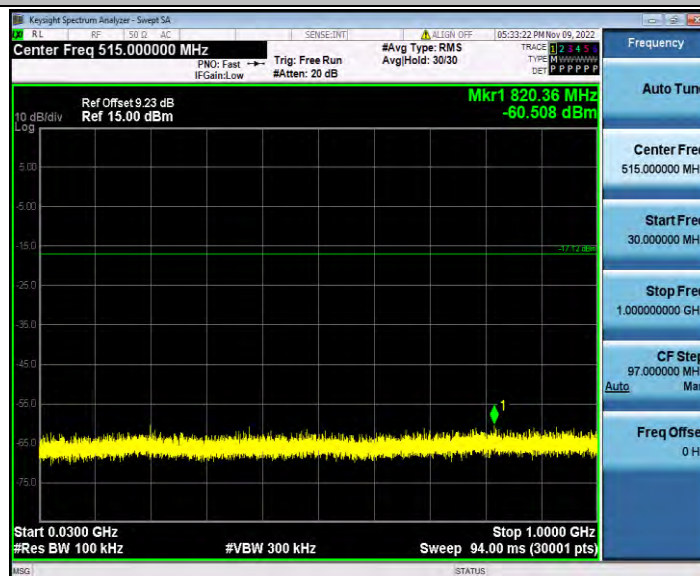
11G_Ant1_2462_1000~26500



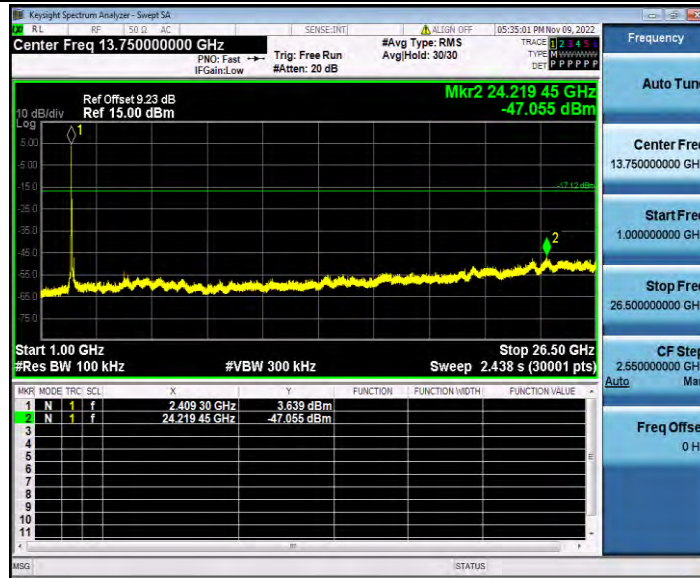
11N20SISO_Ant1_2412_0~Reference



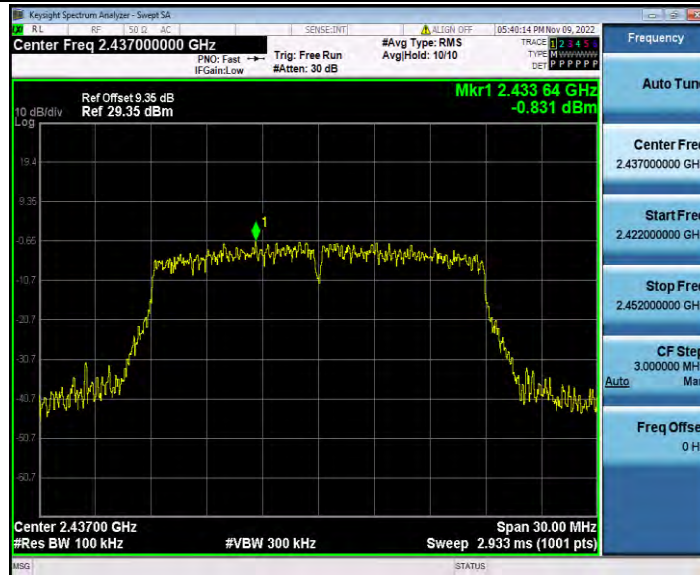
11N20SISO_Ant1_2412_30~1000



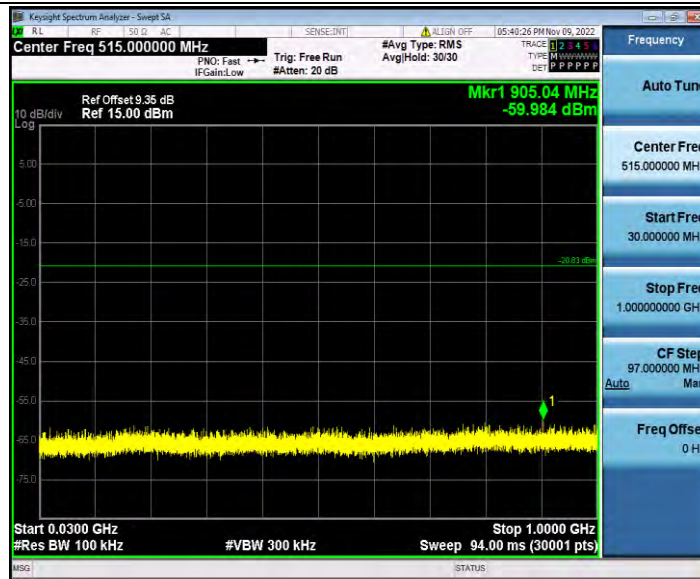
11N20SISO_Ant1_2412_1000~26500



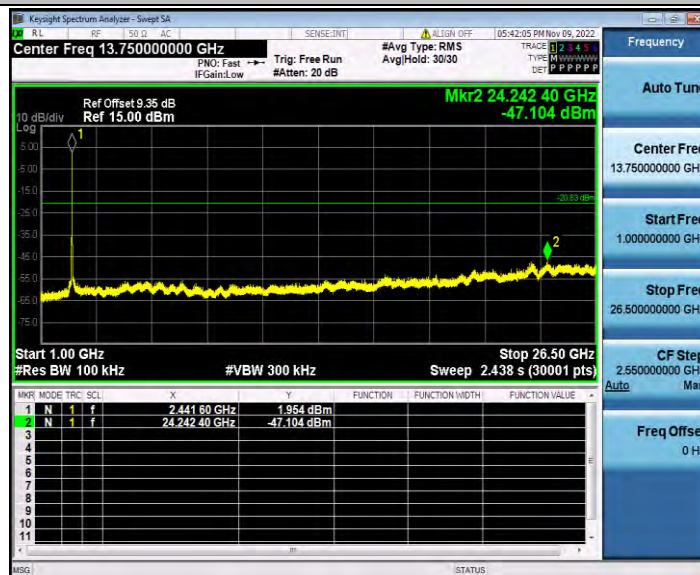
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



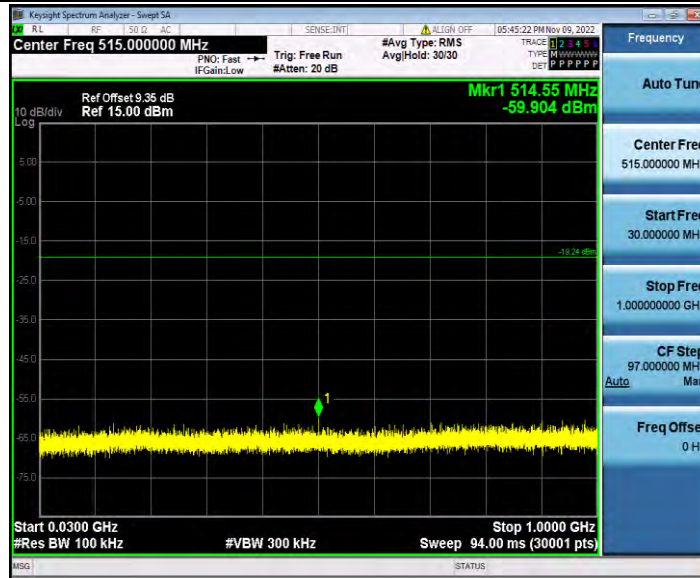
11N20SISO_Ant1_2437_1000~26500



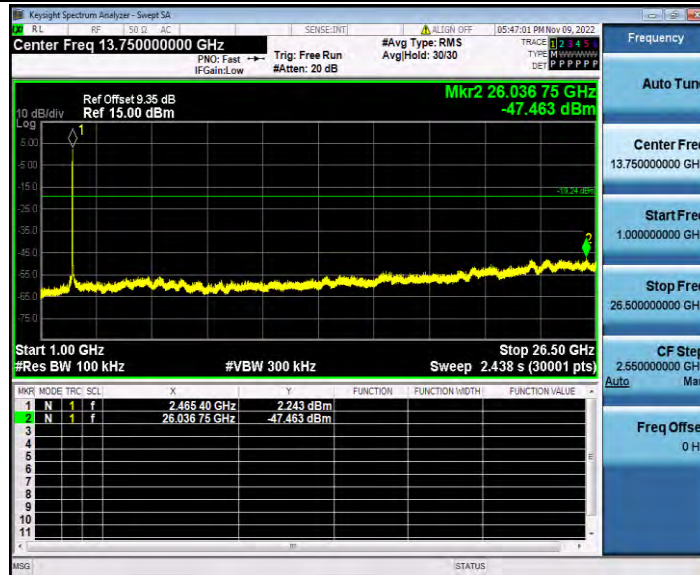
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



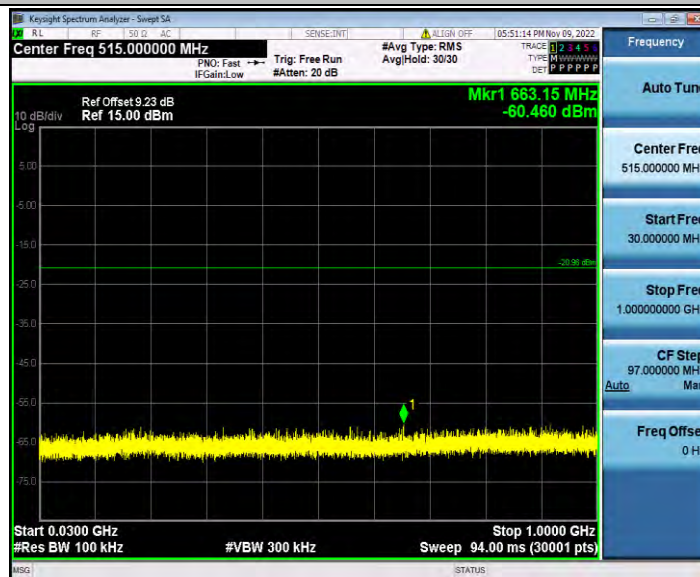
11N20SISO_Ant1_2462_1000~26500



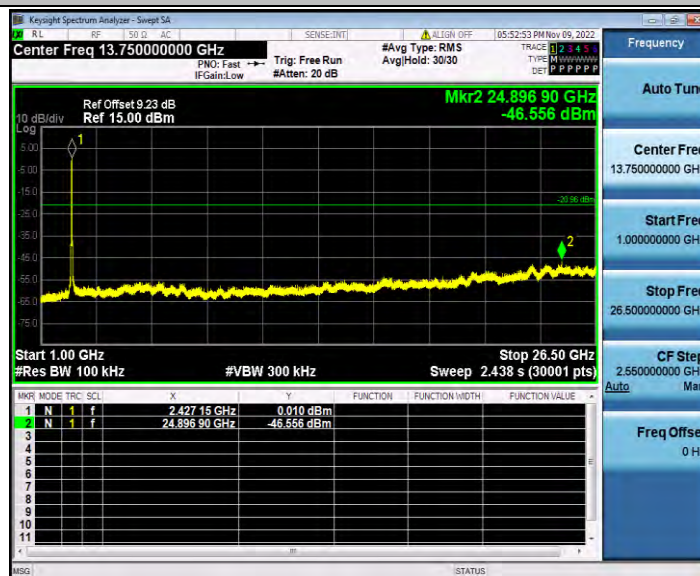
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



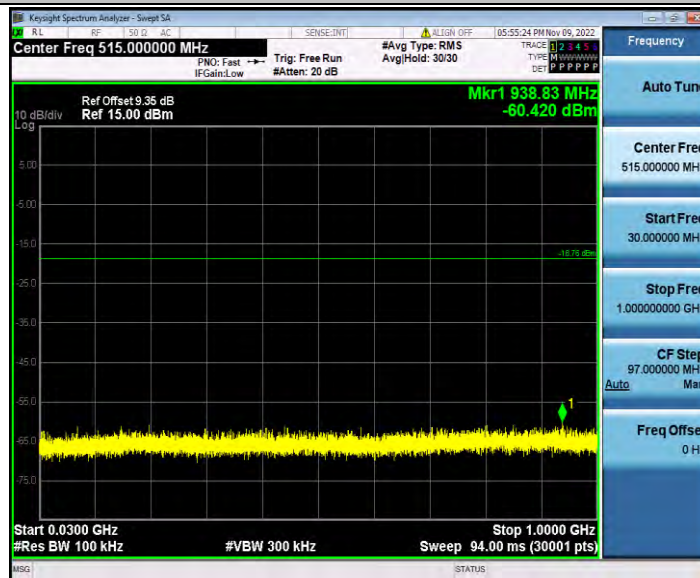
11N40SISO_Ant1_2422_1000~26500



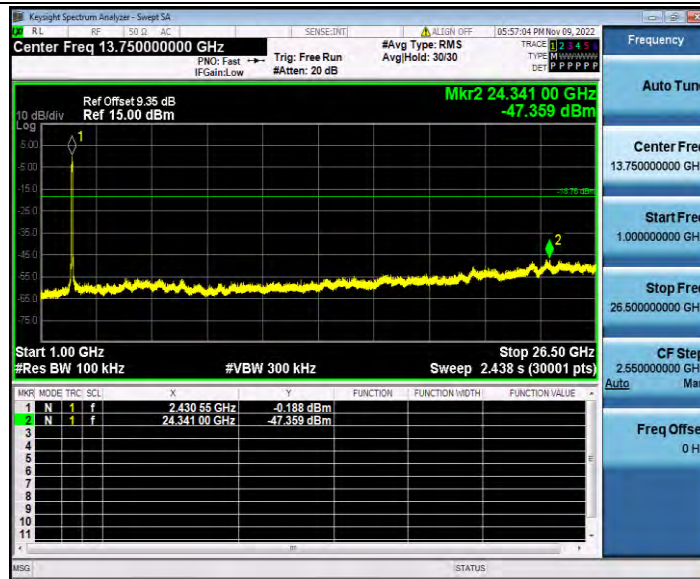
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



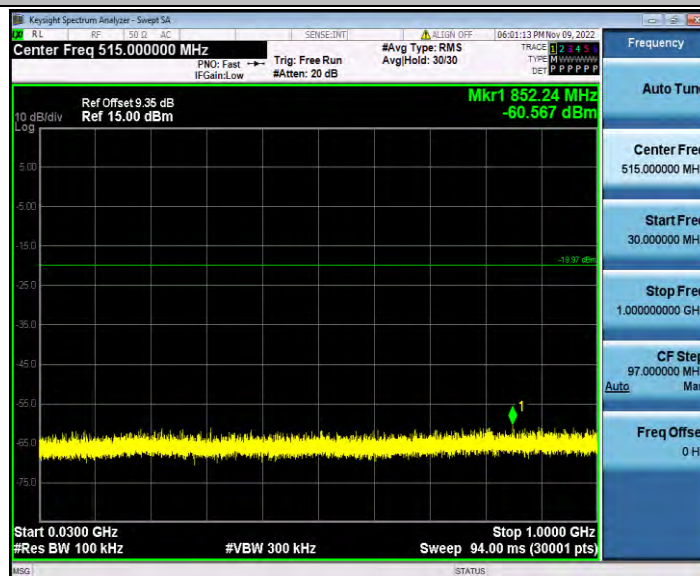
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500

