

Case No. : <u>CTA24072303403</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH,	
According Standard: <u>■RSS 247</u>	
Test Date: <u>2024.8.9</u>	Test Engineer: <u>Lushan Kong</u>

Appendix B.1: DTS Bandwidth

Test Result

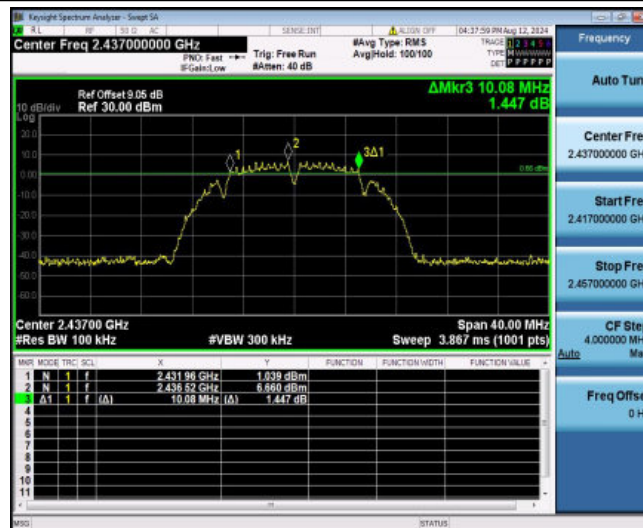
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	15.240	2404.240	2419.480	0.5	PASS
		2437	13.840	2430.720	2444.560	0.5	PASS
		2462	12.880	2454.520	2467.400	0.5	PASS
11N20SISO	Ant1	2412	13.400	2406.120	2419.520	0.5	PASS
		2437	12.560	2431.960	2444.520	0.5	PASS
		2462	17.520	2453.240	2470.760	0.5	PASS
11N40SISO	Ant1	2422	31.040	2408.480	2439.520	0.5	PASS
		2437	27.440	2423.240	2450.680	0.5	PASS
		2452	35.920	2433.840	2469.760	0.5	PASS
11AX20SISO	Ant1	2412	17.000	2402.760	2419.760	0.5	PASS
		2437	17.120	2428.480	2445.600	0.5	PASS
		2462	17.320	2453.600	2470.920	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



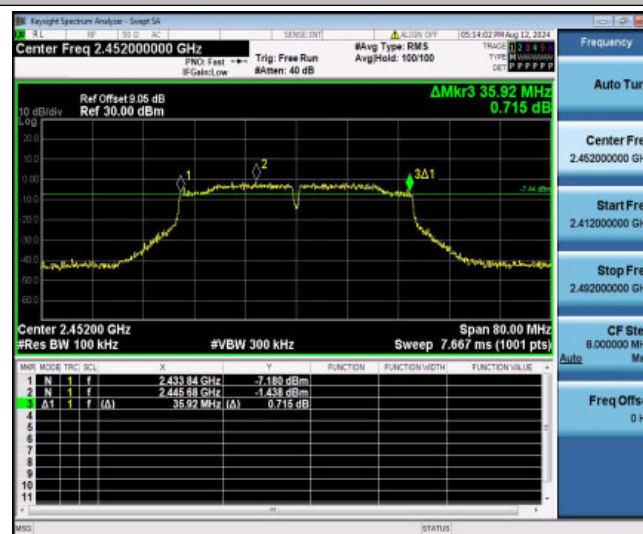
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



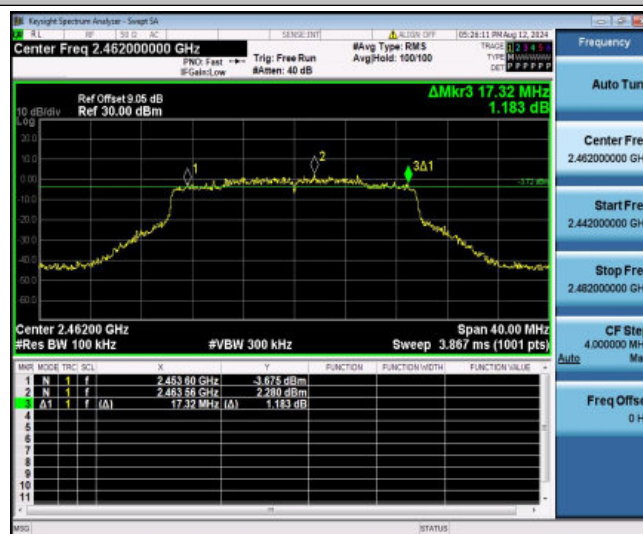
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



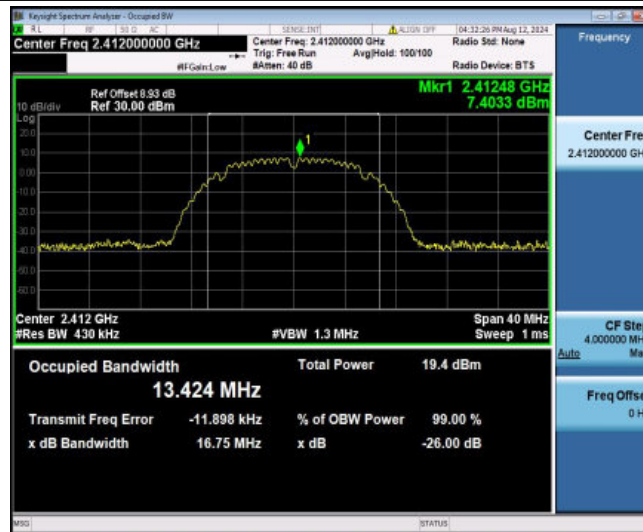
Appendix B.2: Occupied Channel Bandwidth

Test Result

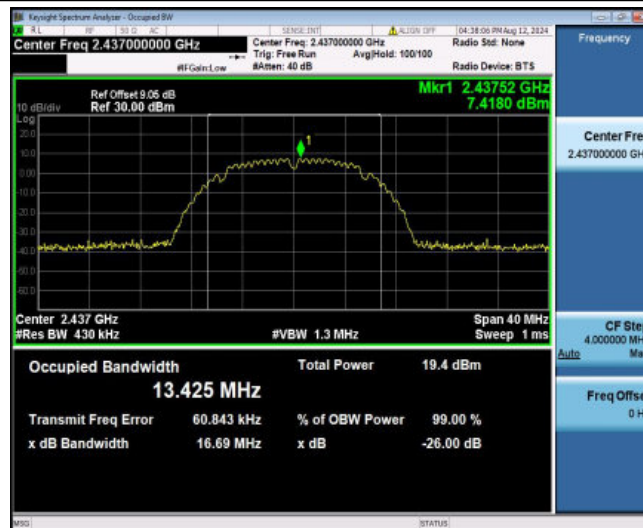
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.424	2405.2761	2418.7001	---	---
		2437	13.425	2430.3483	2443.7733	---	---
		2462	13.374	2455.3253	2468.6993	---	---
11G	Ant1	2412	16.898	2403.5477	2420.4457	---	---
		2437	16.844	2428.6051	2445.4491	---	---
		2462	16.757	2453.6365	2470.3935	---	---
11N20SISO	Ant1	2412	17.955	2403.0075	2420.9625	---	---
		2437	18.022	2428.0505	2446.0725	---	---
		2462	17.933	2453.0256	2470.9586	---	---
11N40SISO	Ant1	2422	36.174	2403.9370	2440.1110	---	---
		2437	36.085	2418.9534	2455.0384	---	---
		2452	35.978	2433.9889	2469.9669	---	---
11AX20SISO	Ant1	2412	18.930	2402.5263	2421.4563	---	---
		2437	18.973	2427.5757	2446.5487	---	---
		2462	18.995	2452.4872	2471.4822	---	---

Test Graphs

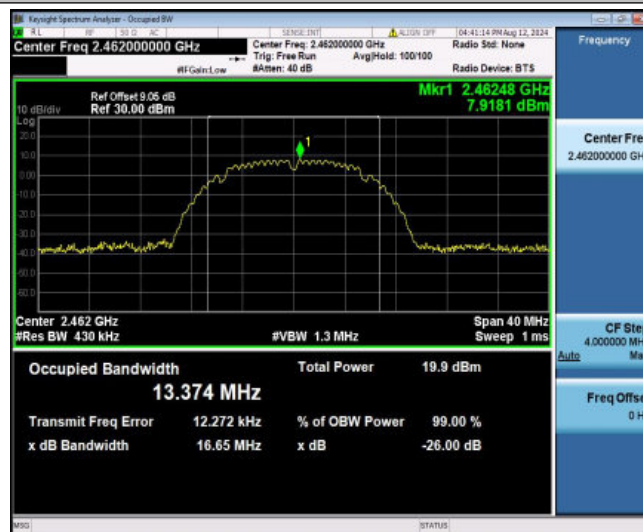
11B_Ant1_2412



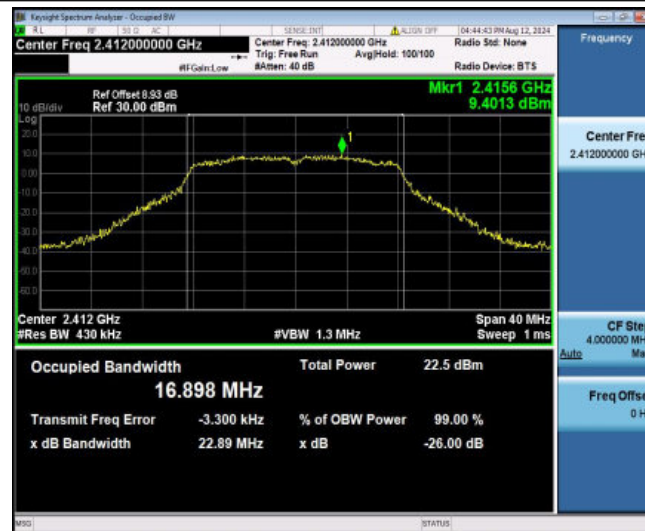
11B_Ant1_2437



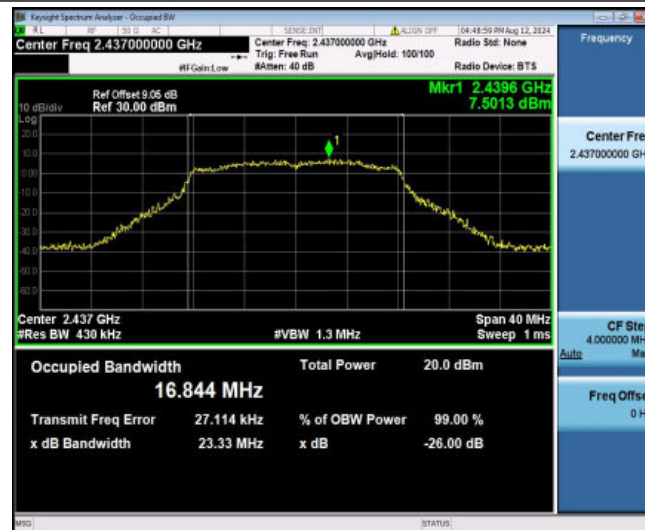
11B_Ant1_2462



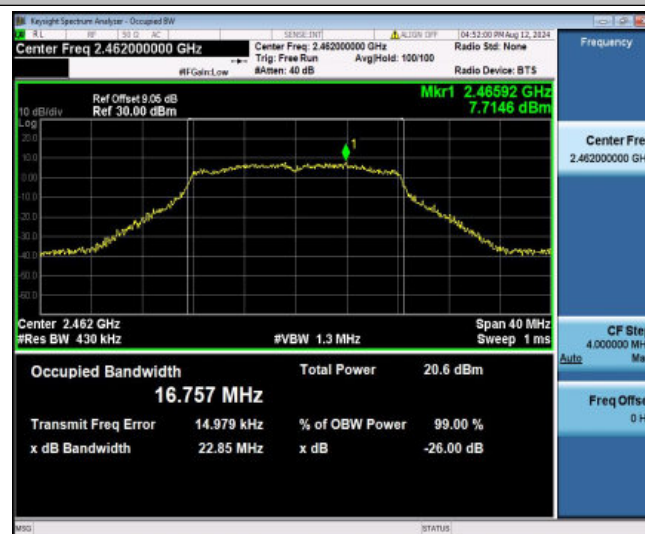
11G_Ant1_2412



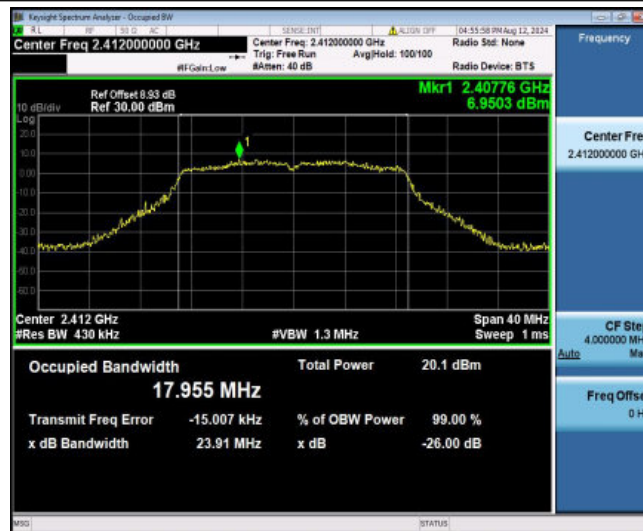
11G_Ant1_2437



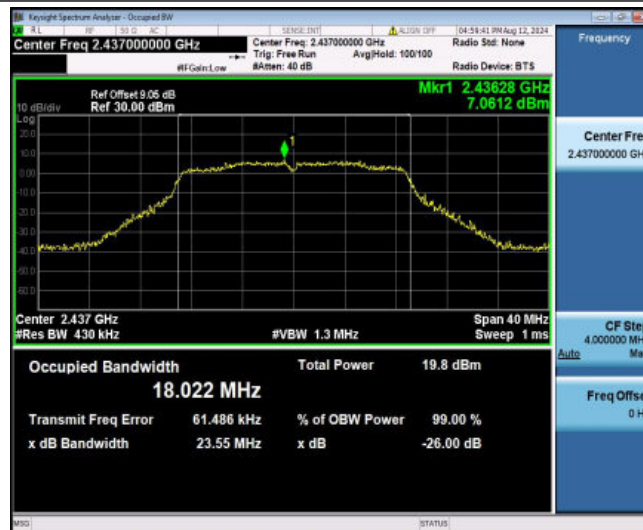
11G_Ant1_2462



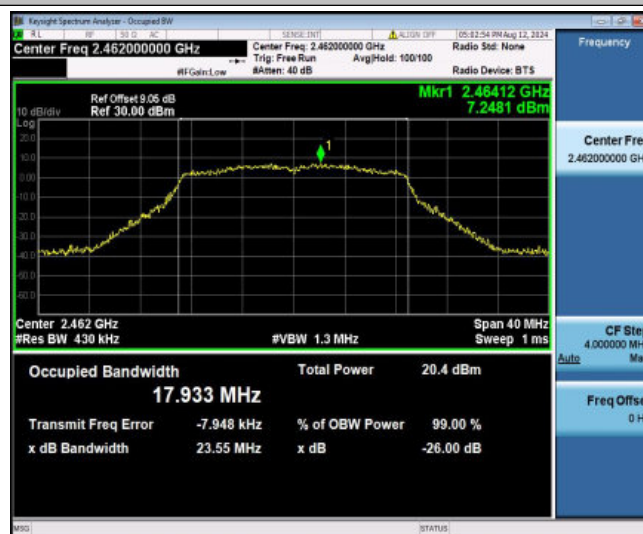
11N20SISO_Ant1_2412



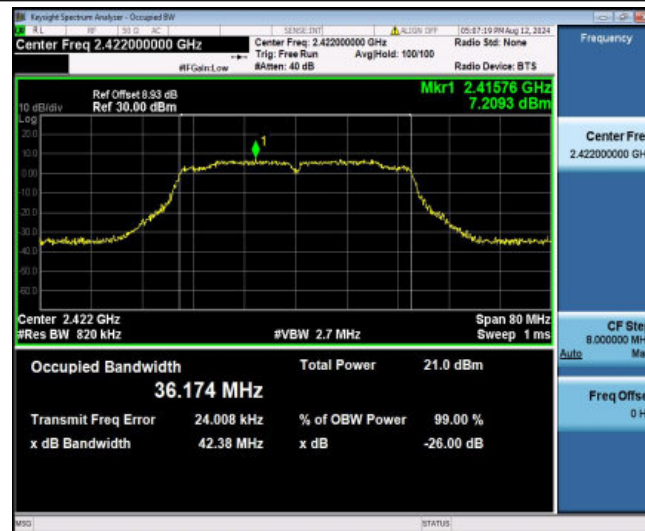
11N20SISO_Ant1_2437



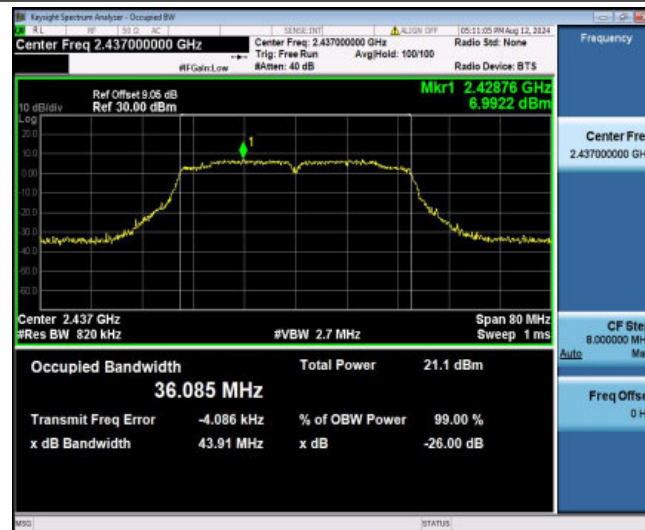
11N20SISO_Ant1_2462



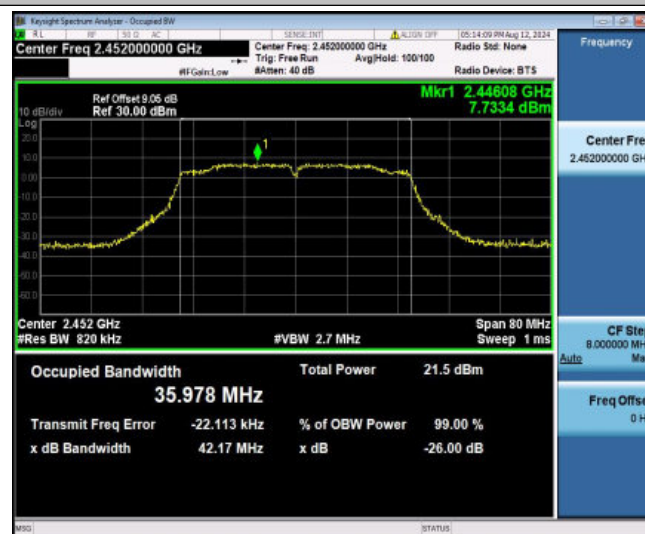
11N40SISO_Ant1_2422



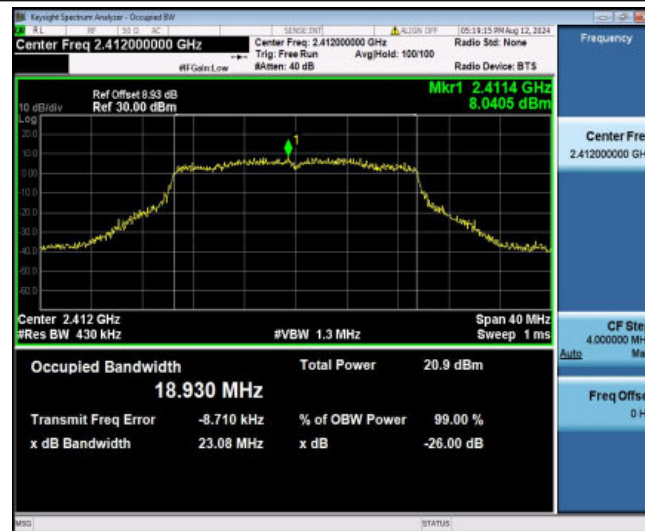
11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



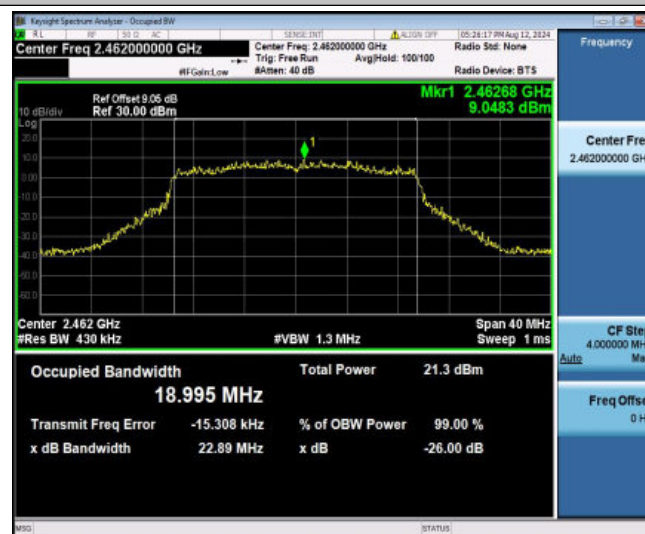
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



Appendix B.3: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Peak power [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	19.43	≤30.00	4.42	23.85	≤36.00	PASS
		2437	19.43	≤30.00	4.42	23.85	≤36.00	PASS
		2462	19.93	≤30.00	4.42	24.35	≤36.00	PASS
11G	Ant1	2412	23.43	≤30.00	4.42	27.85	≤36.00	PASS
		2437	21.00	≤30.00	4.42	25.42	≤36.00	PASS
		2462	21.58	≤30.00	4.42	26.00	≤36.00	PASS
11N20SISO	Ant1	2412	21.07	≤30.00	4.42	25.49	≤36.00	PASS
		2437	21.02	≤30.00	4.42	25.44	≤36.00	PASS
		2462	21.50	≤30.00	4.42	25.92	≤36.00	PASS
11N40SISO	Ant1	2422	21.16	≤30.00	4.42	25.58	≤36.00	PASS
		2437	21.41	≤30.00	4.42	25.83	≤36.00	PASS
		2452	21.69	≤30.00	4.42	26.11	≤36.00	PASS
11AX20SISO	Ant1	2412	21.47	≤30.00	4.42	25.89	≤36.00	PASS
		2437	21.28	≤30.00	4.42	25.70	≤36.00	PASS
		2462	21.77	≤30.00	4.42	26.19	≤36.00	PASS

Appendix B.4: Maximum power spectral density

Test Result

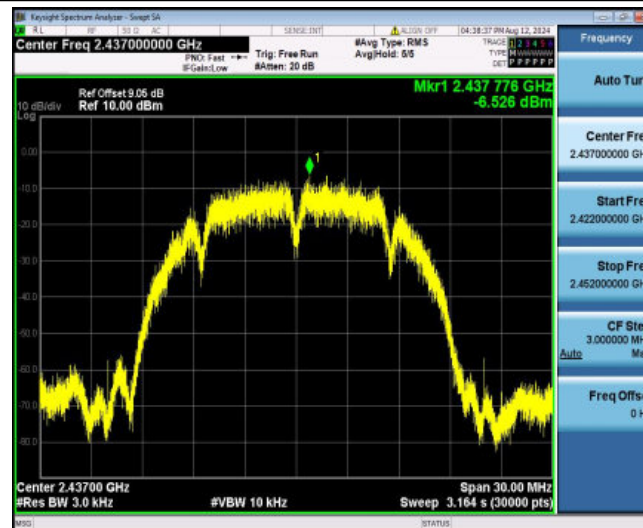
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.93	≤8.00	PASS
		2437	-6.53	≤8.00	PASS
		2462	-6.19	≤8.00	PASS
11G	Ant1	2412	-8.85	≤8.00	PASS
		2437	-11.03	≤8.00	PASS
		2462	-9.06	≤8.00	PASS
11N20SISO	Ant1	2412	-11.29	≤8.00	PASS
		2437	-10.69	≤8.00	PASS
		2462	-9.68	≤8.00	PASS
11N40SISO	Ant1	2422	-14.07	≤8.00	PASS
		2437	-14.43	≤8.00	PASS
		2452	-12.92	≤8.00	PASS
11AX20SISO	Ant1	2412	-11.87	≤8.00	PASS
		2437	-12.40	≤8.00	PASS
		2462	-11.31	≤8.00	PASS

Test Graphs

11B_Ant1_2412



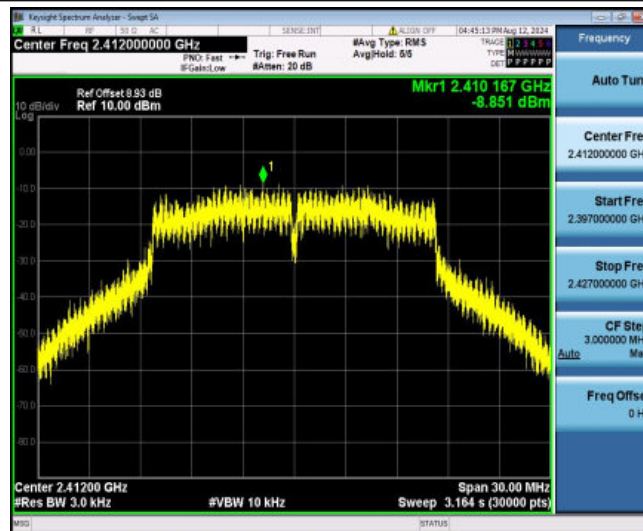
11B_Ant1_2437



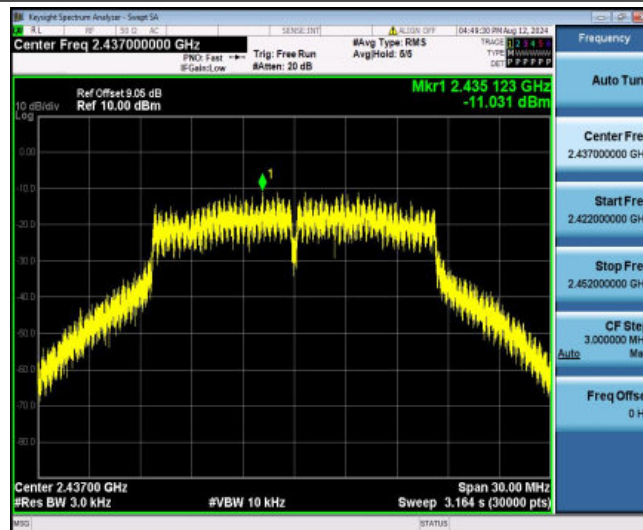
11B_Ant1_2462



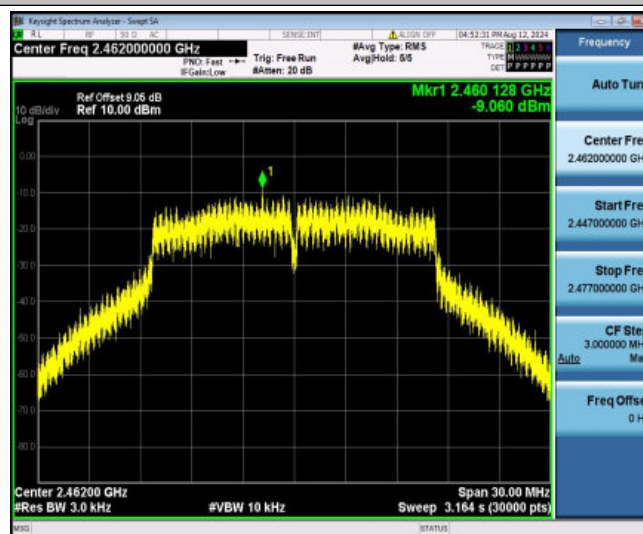
11G_Ant1_2412



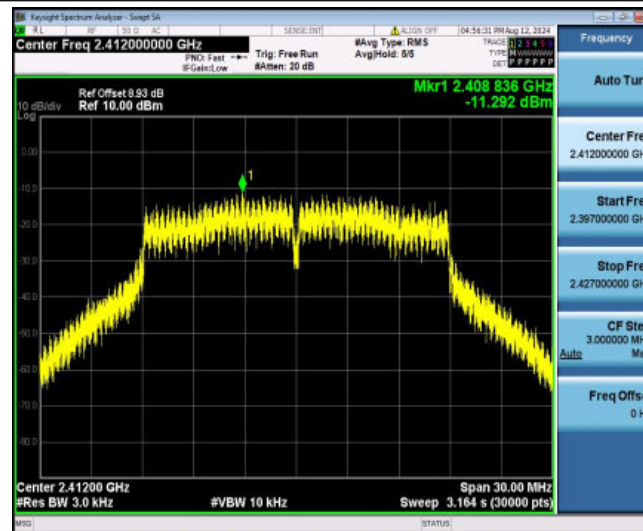
11G_Ant1_2437



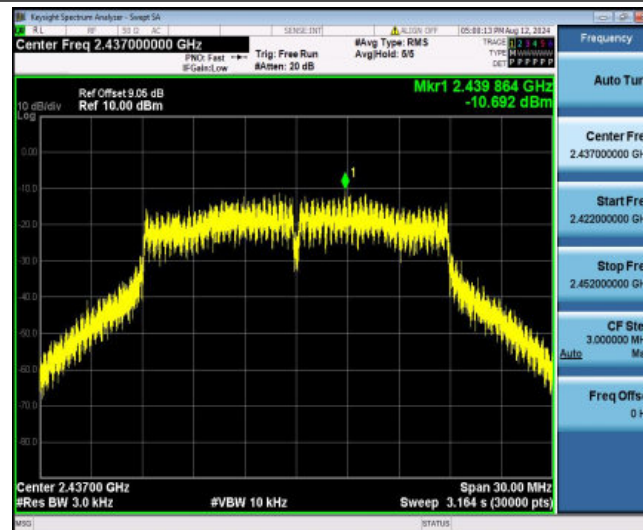
11G_Ant1_2462



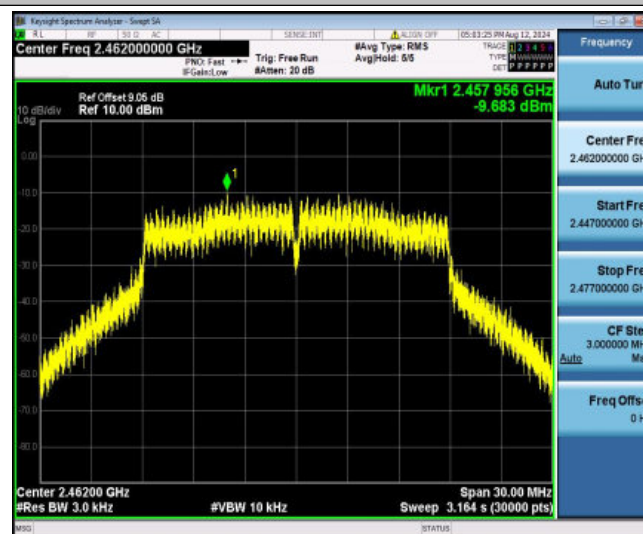
11N20SISO_Ant1_2412



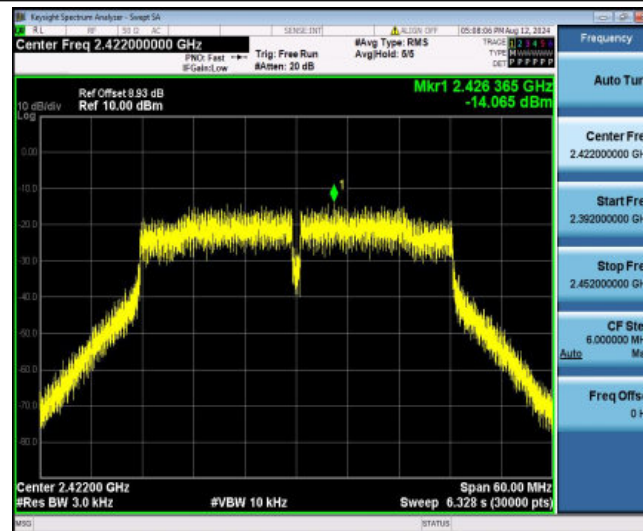
11N20SISO_Ant1_2437



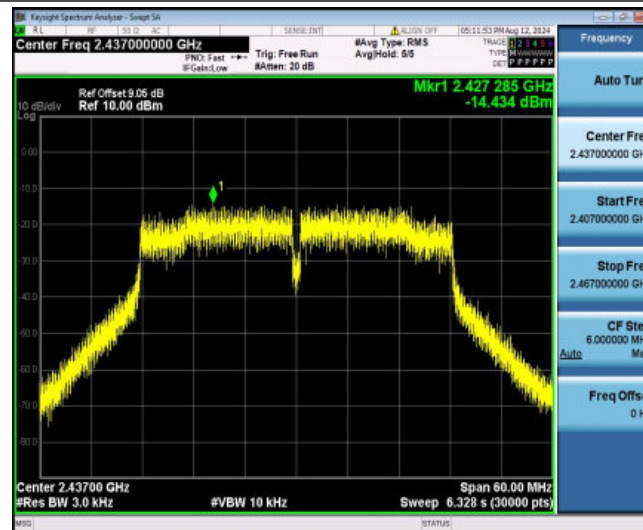
11N20SISO_Ant1_2462



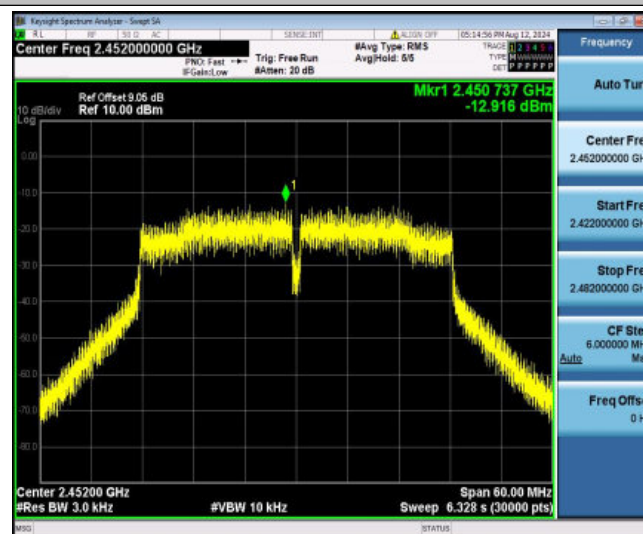
11N40SISO_Ant1_2422



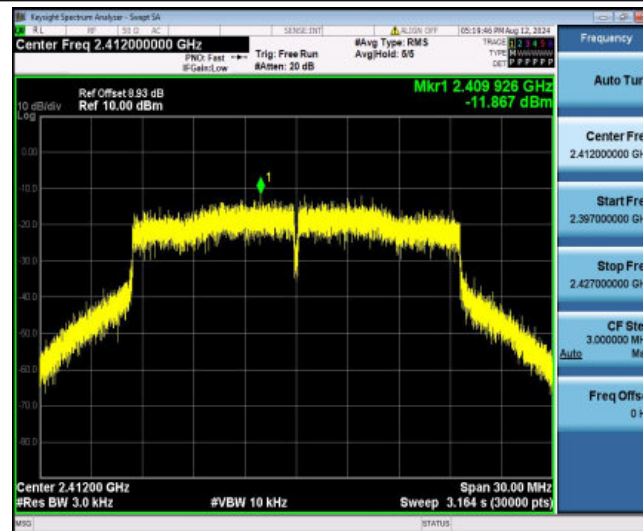
11N40SISO_Ant1_2437



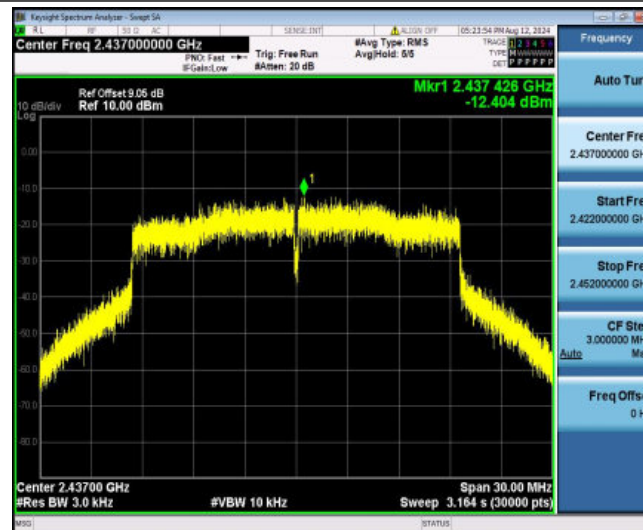
11N40SISO_Ant1_2452



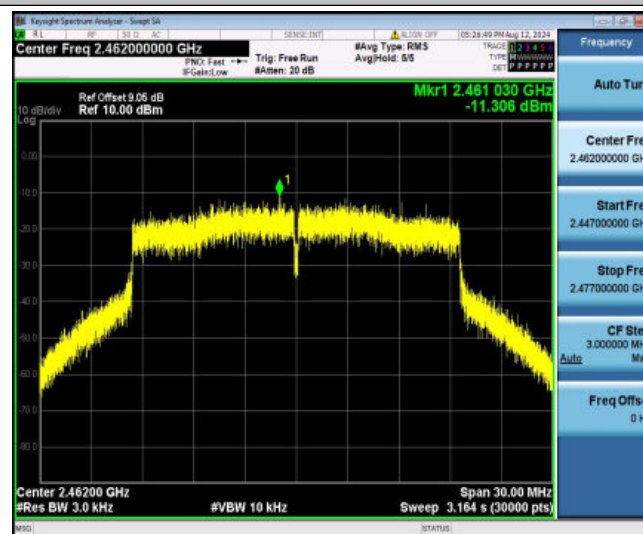
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



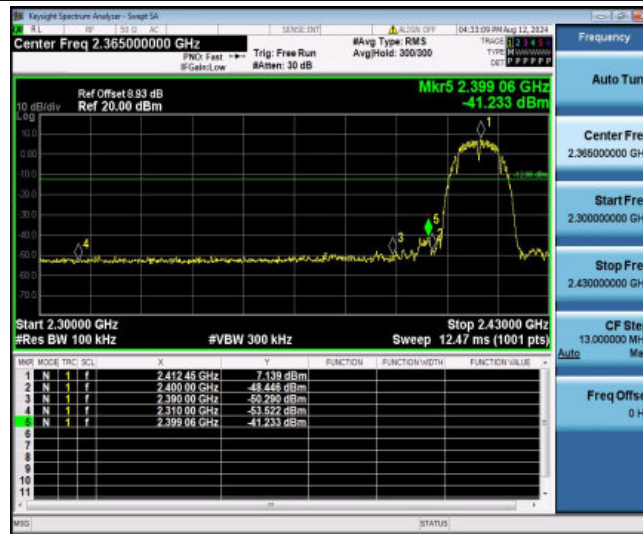
Appendix B.5: Band edge measurements

Test Result

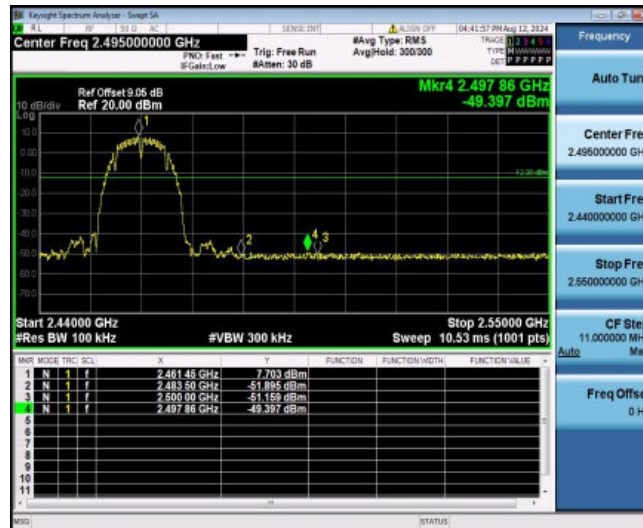
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.14	-41.23	≤ -12.86	PASS
		High	2462	7.70	-49.4	≤ -12.3	PASS
11G	Ant1	Low	2412	6.68	-23.51	≤ -13.32	PASS
		High	2462	4.80	-48.84	≤ -15.2	PASS
11N20SISO	Ant1	Low	2412	3.69	-25.52	≤ -16.31	PASS
		High	2462	3.67	-48.98	≤ -16.33	PASS
11N40SISO	Ant1	Low	2422	0.68	-30.31	≤ -19.32	PASS
		High	2452	0.16	-45.1	≤ -19.84	PASS
11AX20SISO	Ant1	Low	2412	3.27	-26.3	≤ -16.73	PASS
		High	2462	3.58	-48.91	≤ -16.42	PASS

Test Graphs

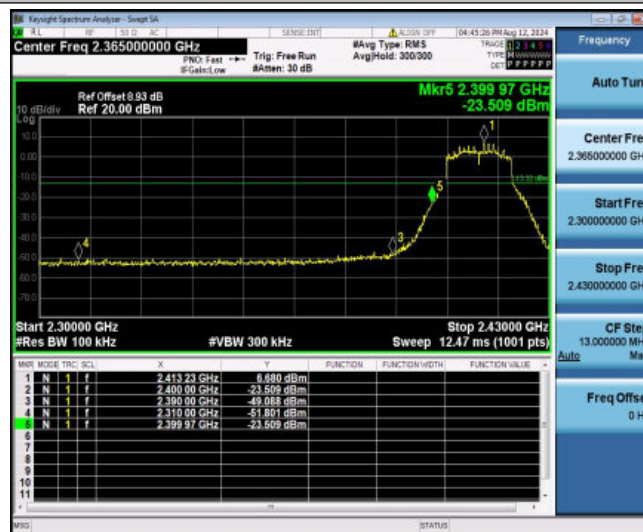
11B_Ant1_Low_2412



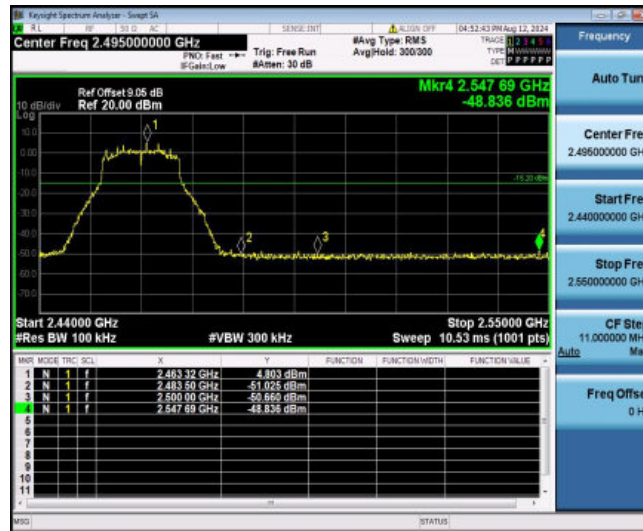
11B_Ant1_High_2462



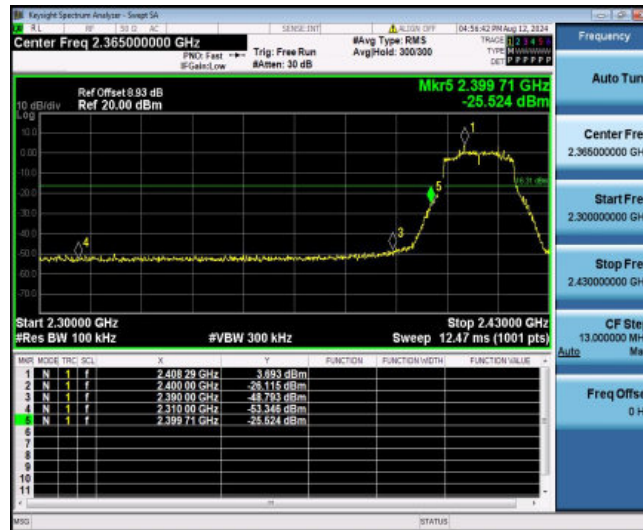
11G_Ant1_Low_2412



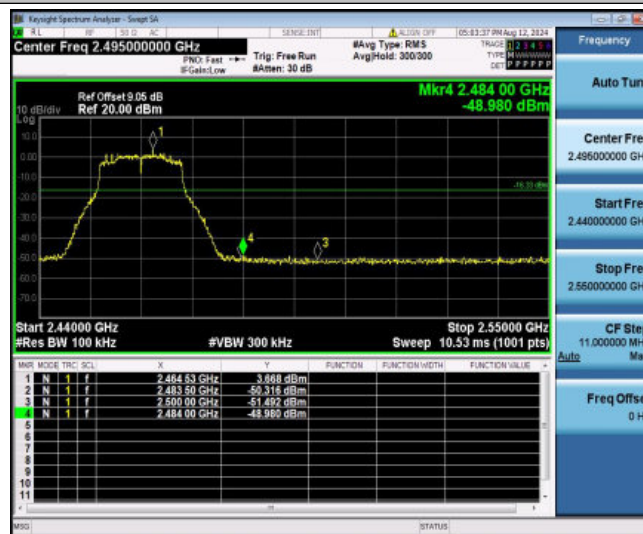
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



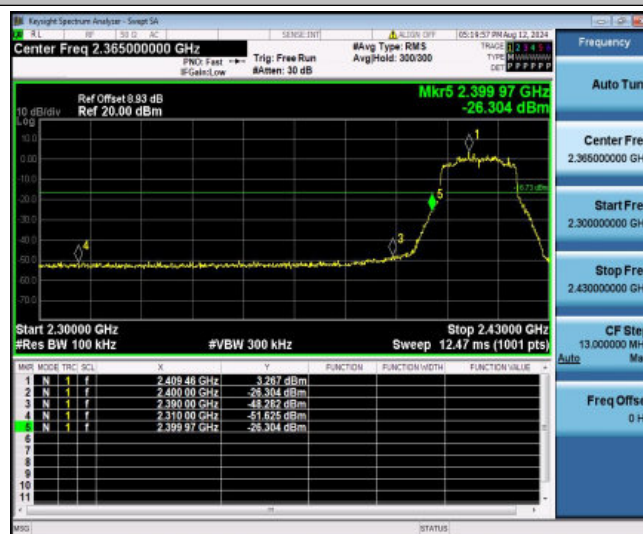
11N40SISO_Ant1_Low_2422



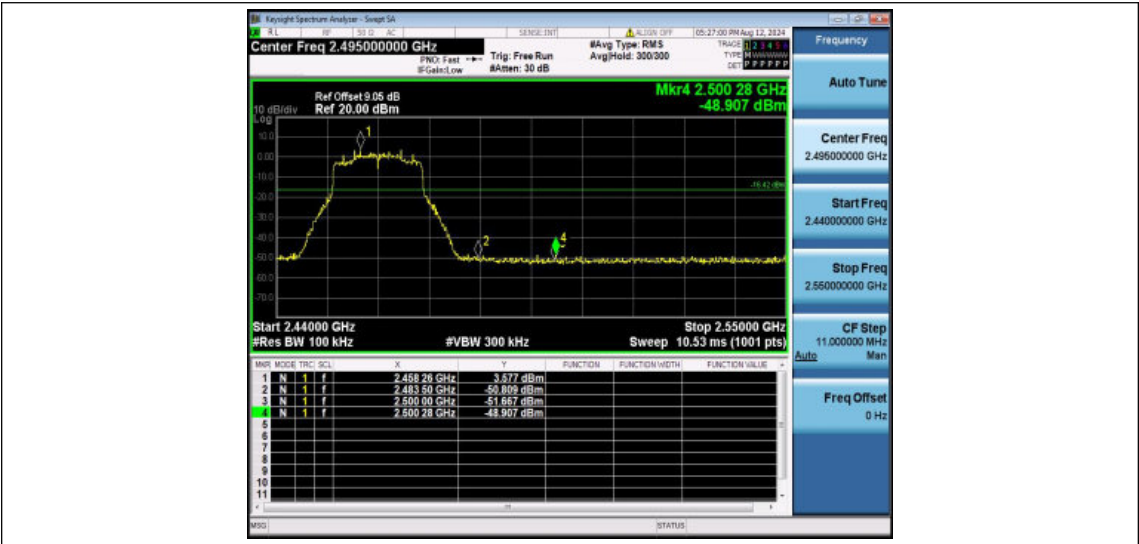
11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462



Appendix B.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.66	6.66	---	PASS
			30~1000	6.66	-59.68	≤-13.34	PASS
			1000~26500	6.66	-47.73	≤-13.34	PASS
		2437	Reference	5.04	5.04	---	PASS
			30~1000	5.04	-60.68	≤-14.96	PASS
			1000~26500	5.04	-48.34	≤-14.96	PASS
		2462	Reference	6.53	6.53	---	PASS
			30~1000	6.53	-60.11	≤-13.47	PASS
			1000~26500	6.53	-48.16	≤-13.47	PASS
11G	Ant1	2412	Reference	4.99	4.99	---	PASS
			30~1000	4.99	-52.36	≤-15.01	PASS
			1000~26500	4.99	-48.28	≤-15.01	PASS
		2437	Reference	2.23	2.23	---	PASS
			30~1000	2.23	-58.63	≤-17.77	PASS
			1000~26500	2.23	-48.04	≤-17.77	PASS
		2462	Reference	3.85	3.85	---	PASS
			30~1000	3.85	-60.17	≤-16.15	PASS
			1000~26500	3.85	-47.6	≤-16.15	PASS
11N20SISO	Ant1	2412	Reference	2.90	2.90	---	PASS
			30~1000	2.90	-60.85	≤-17.1	PASS
			1000~26500	2.90	-47.58	≤-17.1	PASS
		2437	Reference	0.20	0.20	---	PASS
			30~1000	0.20	-60.59	≤-19.8	PASS
			1000~26500	0.20	-47.82	≤-19.8	PASS
		2462	Reference	3.50	3.50	---	PASS
			30~1000	3.50	-60.3	≤-16.5	PASS
			1000~26500	3.50	-47.28	≤-16.5	PASS
11N40SISO	Ant1	2422	Reference	-3.23	-3.23	---	PASS
			30~1000	-3.23	-60.48	≤-23.23	PASS
			1000~26500	-3.23	-46.86	≤-23.23	PASS
		2437	Reference	-3.00	-3.00	---	PASS
			30~1000	-3.00	-60.69	≤-23	PASS
			1000~26500	-3.00	-47.79	≤-23	PASS
		2452	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-59.97	≤-22.4	PASS
			1000~26500	-2.40	-47.34	≤-22.4	PASS
11AX20SISO	Ant1	2412	Reference	1.20	1.20	---	PASS

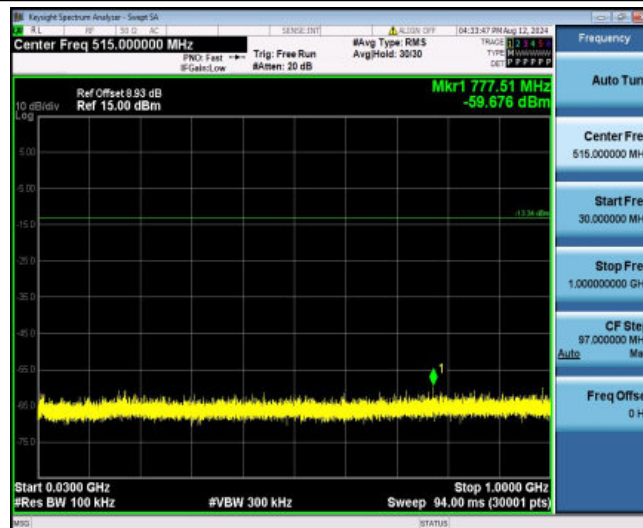
			30~1000	1.20	-60.99	≤ -18.8	PASS
			1000~26500	1.20	-47.91	≤ -18.8	PASS
		2437	Reference	-0.05	-0.05	---	PASS
			30~1000	-0.05	-60.43	≤ -20.05	PASS
			1000~26500	-0.05	-47.44	≤ -20.05	PASS
		2462	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-60.26	≤ -19.74	PASS
			1000~26500	0.26	-47.72	≤ -19.74	PASS

Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



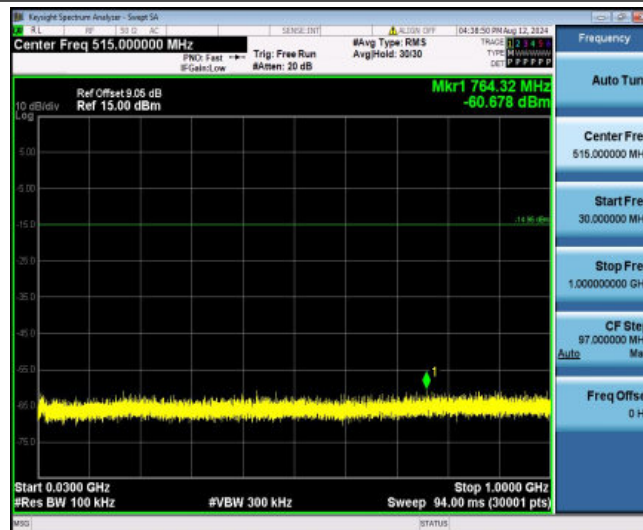
11B_Ant1_2412_1000~26500



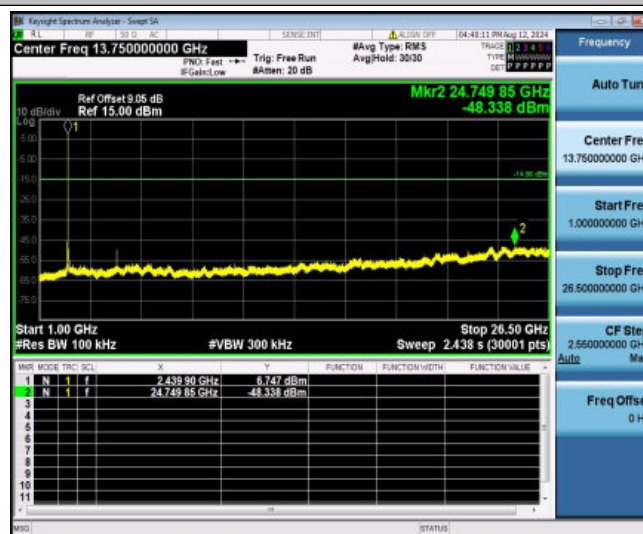
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



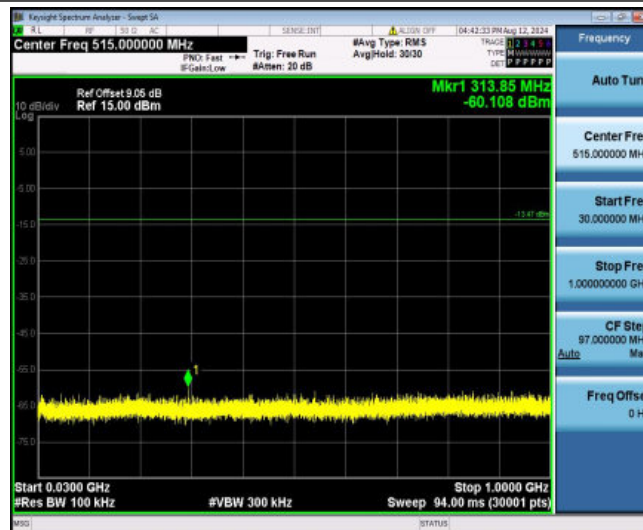
11B_Ant1_2437_1000~26500



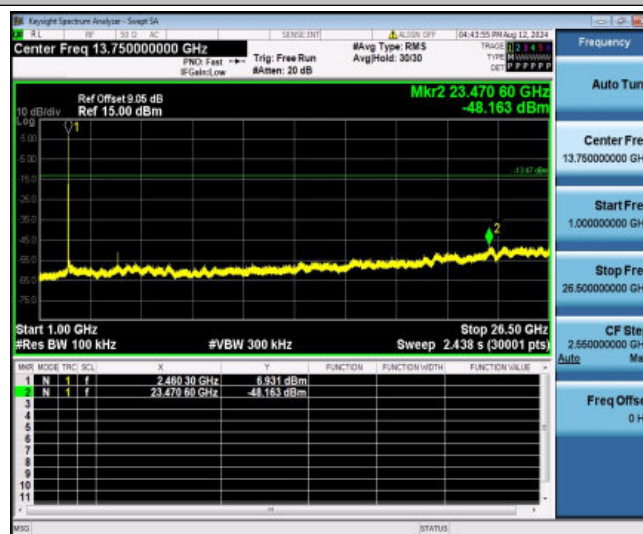
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



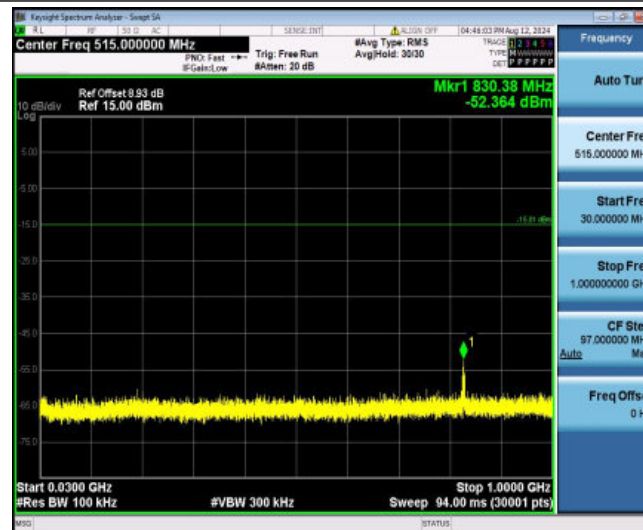
11B_Ant1_2462_1000~26500



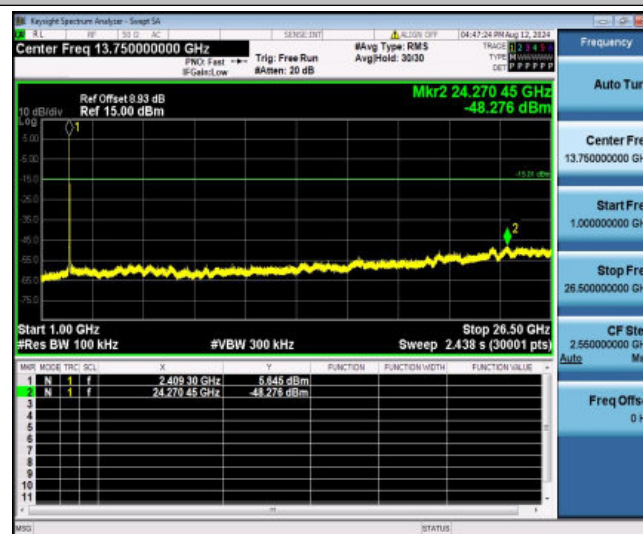
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



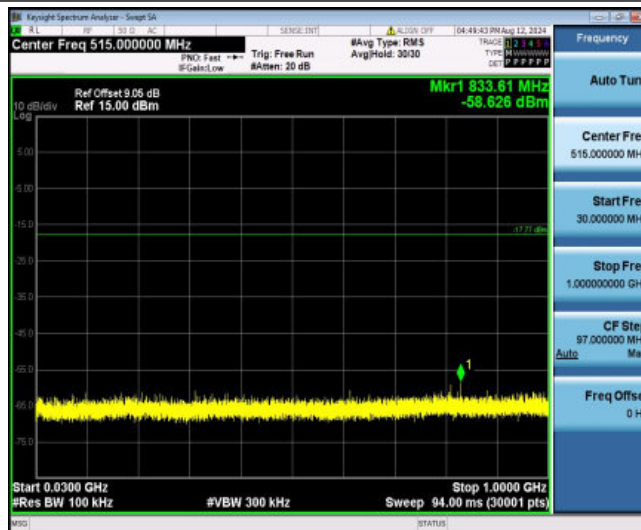
11G_Ant1_2412_1000~26500



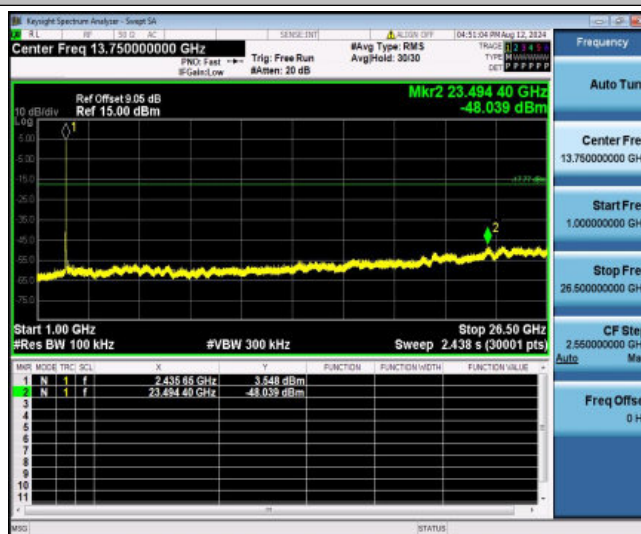
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



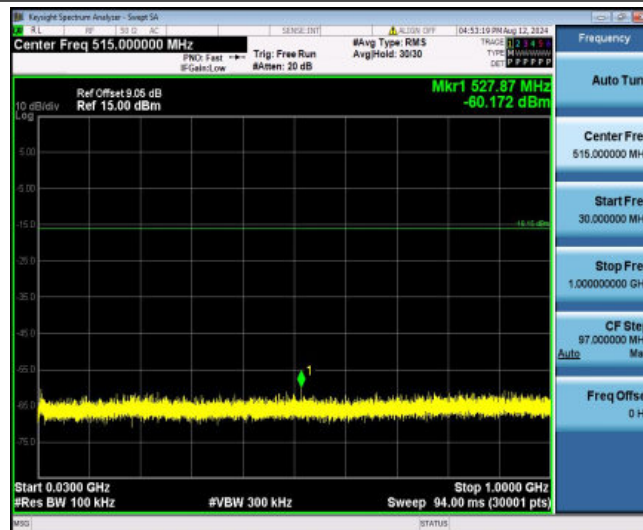
11G_Ant1_2437_1000~26500



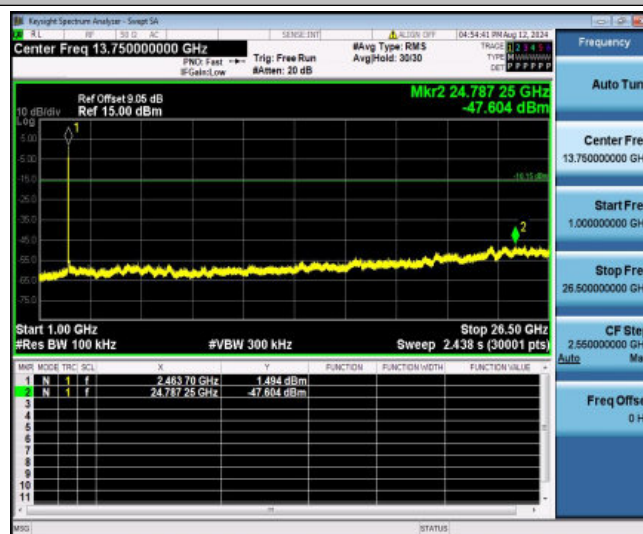
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11G_Ant1_2462_30~1000



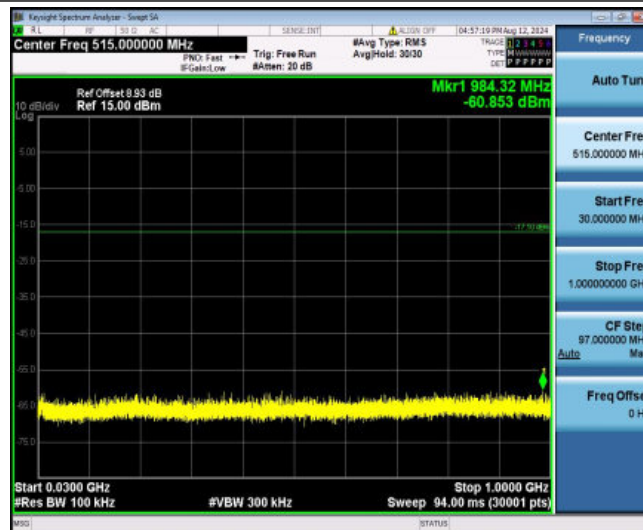
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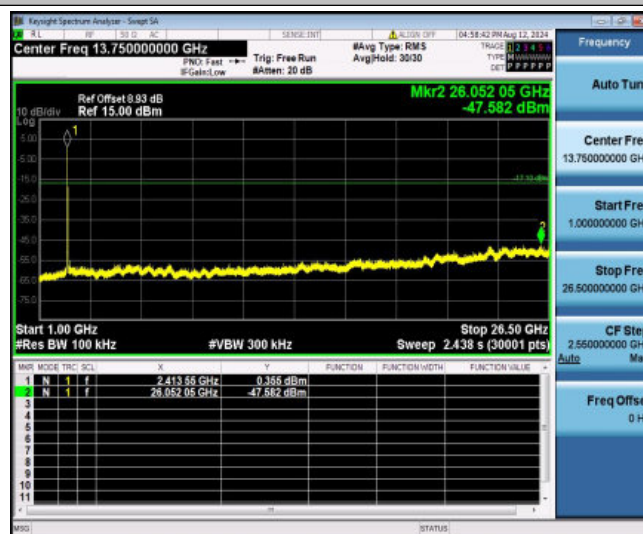
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



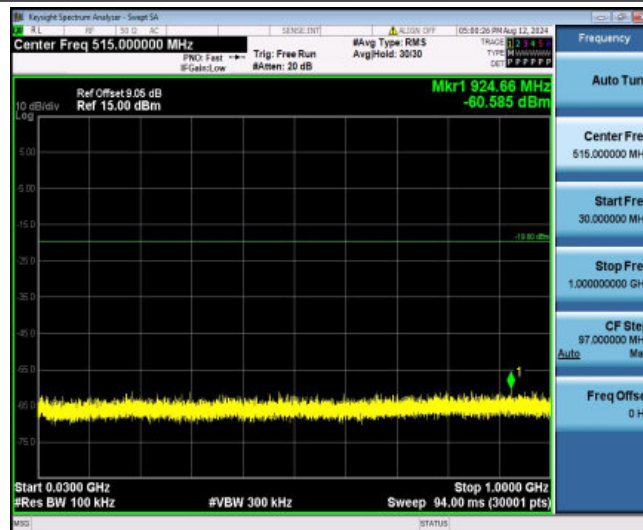
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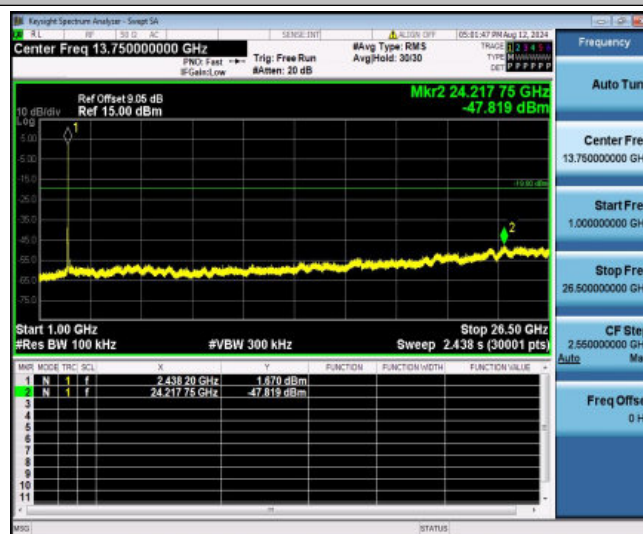
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



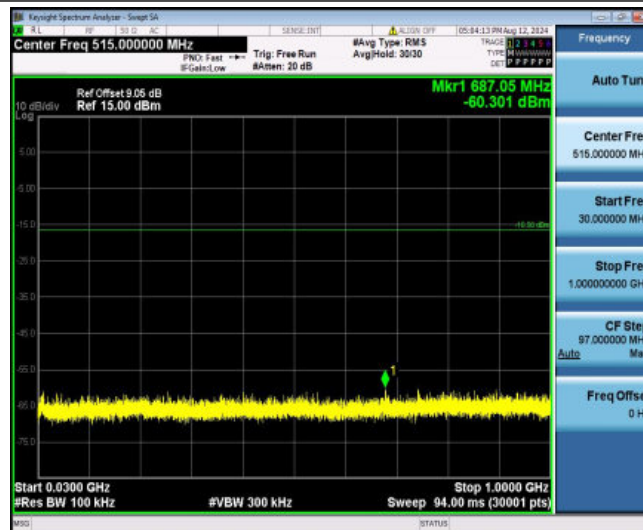
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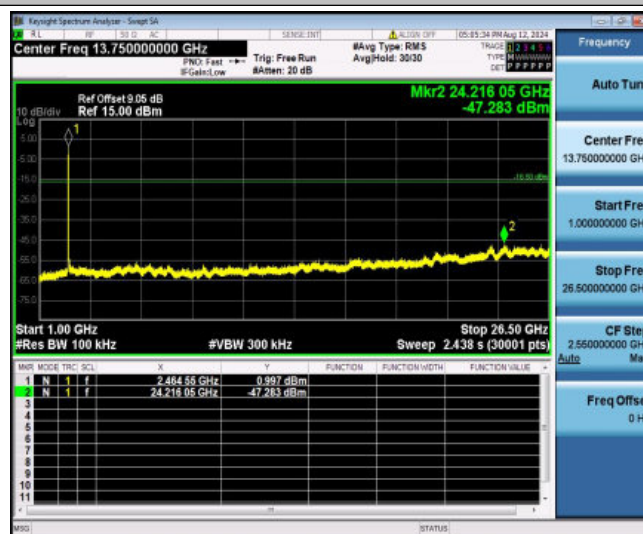
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference