

<b>Case No. :</b> <u>GTS20221227001-1-1</u>
<b>Ambient Condition:</b> <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.3.10</u> <b>Test Engineer:</b> <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	9.520	2407.000	2416.520	0.5	PASS
		2437	10.000	2432.000	2442.000	0.5	PASS
		2462	9.520	2457.000	2466.520	0.5	PASS
11G	Ant1	2412	15.160	2404.400	2419.560	0.5	PASS
		2437	13.280	2430.360	2443.640	0.5	PASS
		2462	13.160	2454.480	2467.640	0.5	PASS
11N20SISO	Ant1	2412	12.880	2405.360	2418.240	0.5	PASS
		2437	15.400	2429.480	2444.880	0.5	PASS
		2462	15.080	2454.440	2469.520	0.5	PASS
11N40SISO	Ant1	2422	32.480	2404.560	2437.040	0.5	PASS
		2437	35.120	2419.400	2454.520	0.5	PASS
		2452	32.560	2435.760	2468.320	0.5	PASS

## Test Graphs

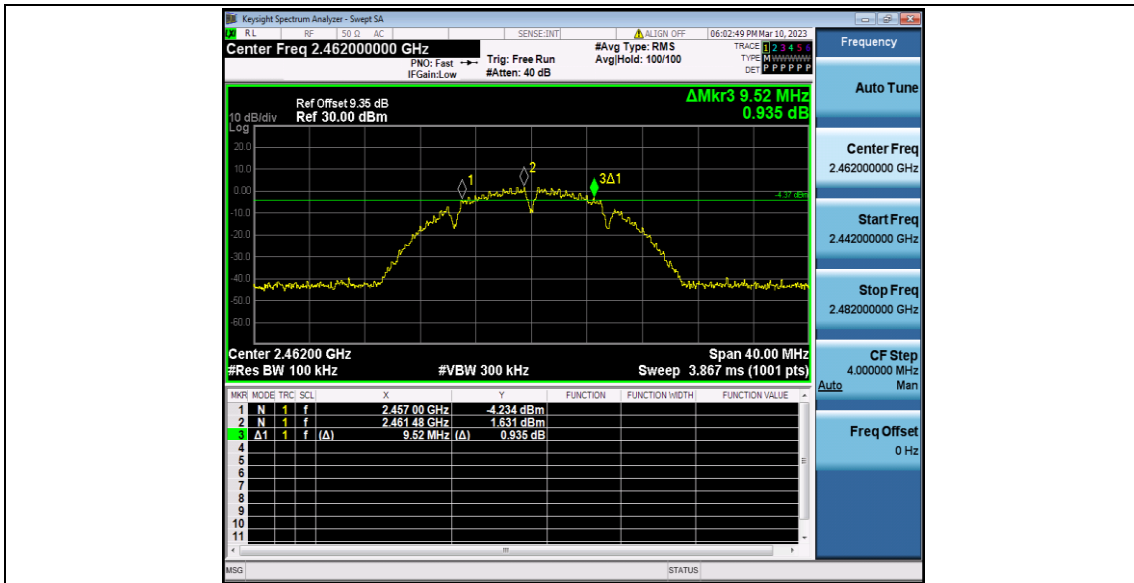
11B\_Ant1\_2412



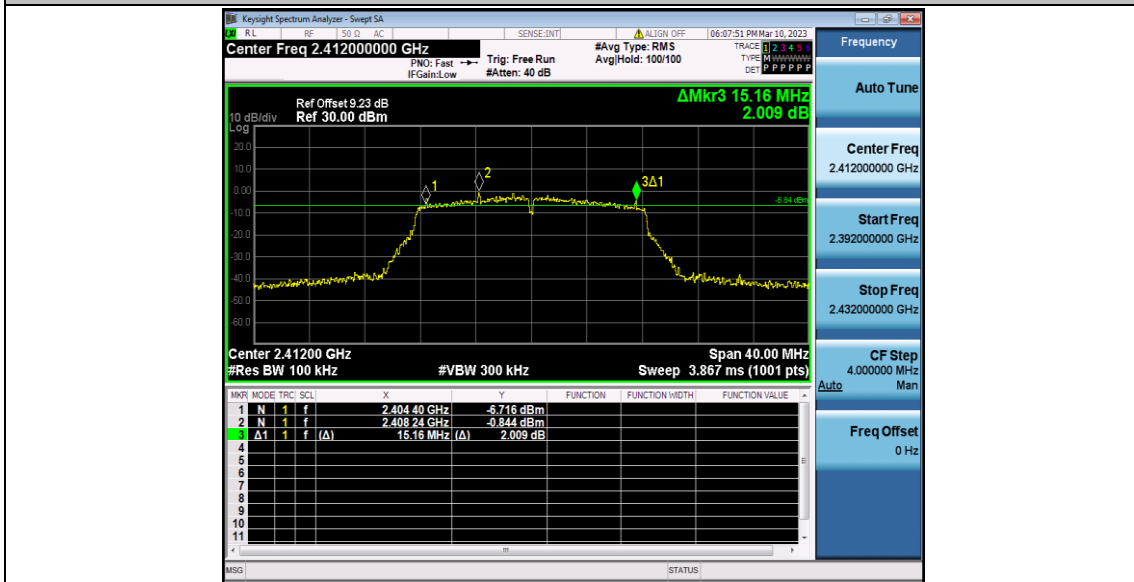
11B\_Ant1\_2437



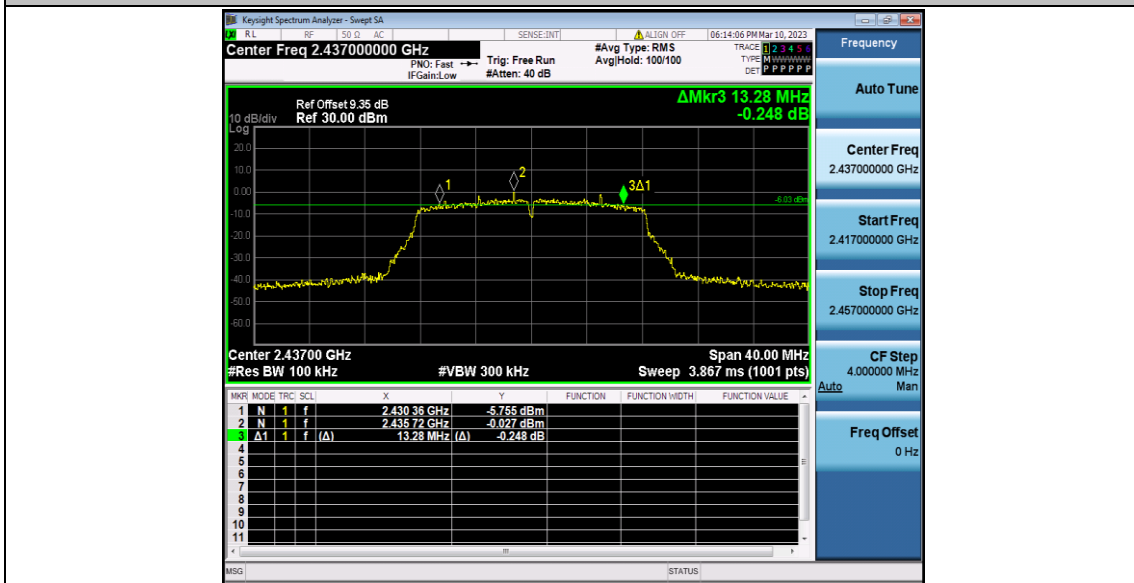
11B\_Ant1\_2462



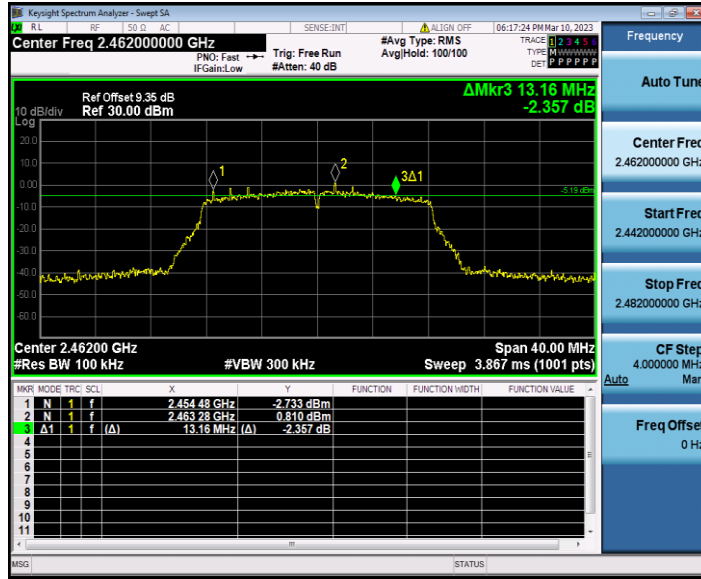
11G\_Ant1\_2412



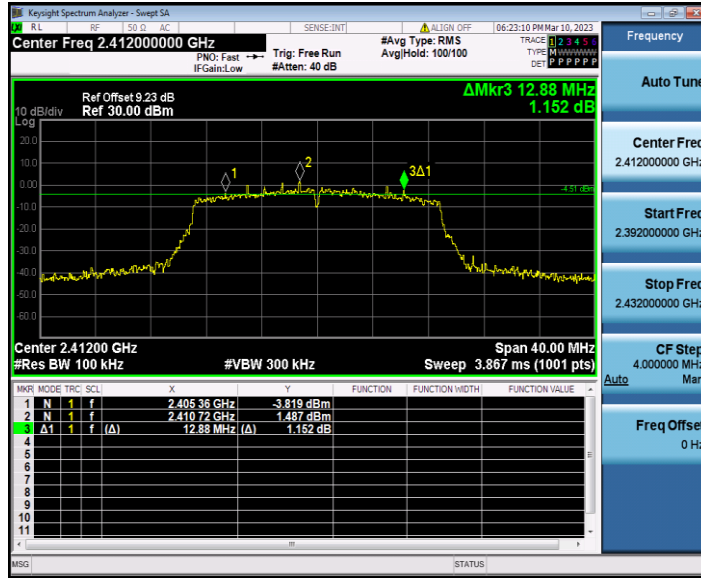
11G\_Ant1\_2437



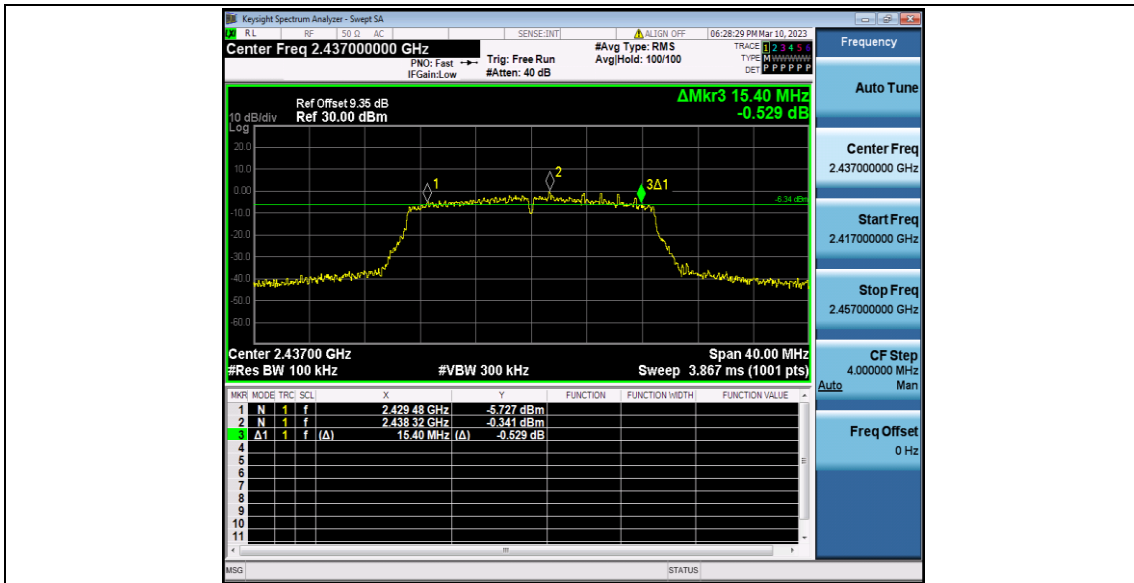
11G\_Ant1\_2462



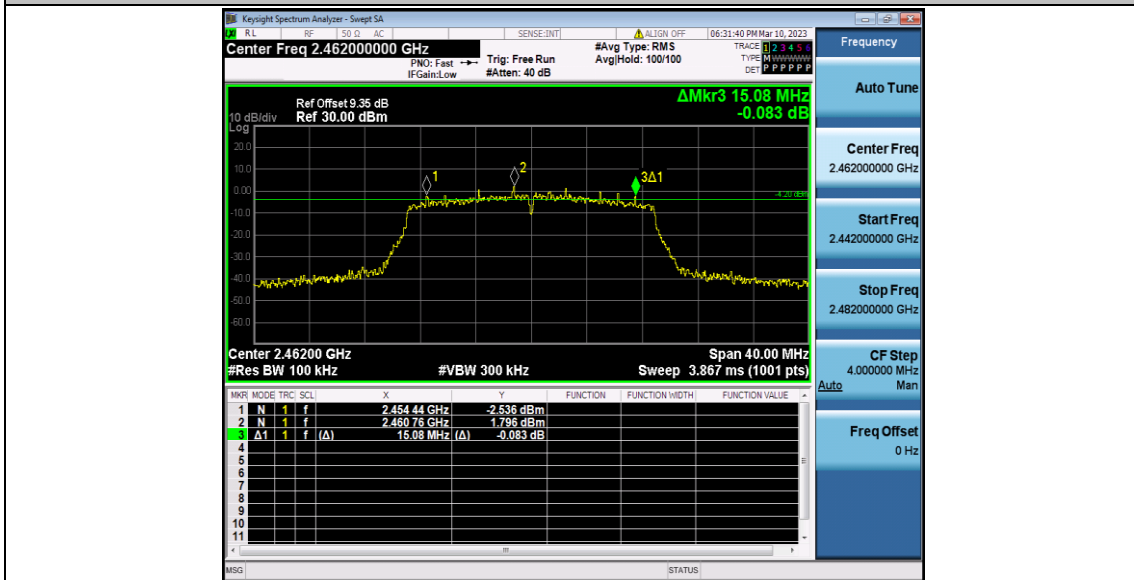
11N20SISO\_Ant1\_2412



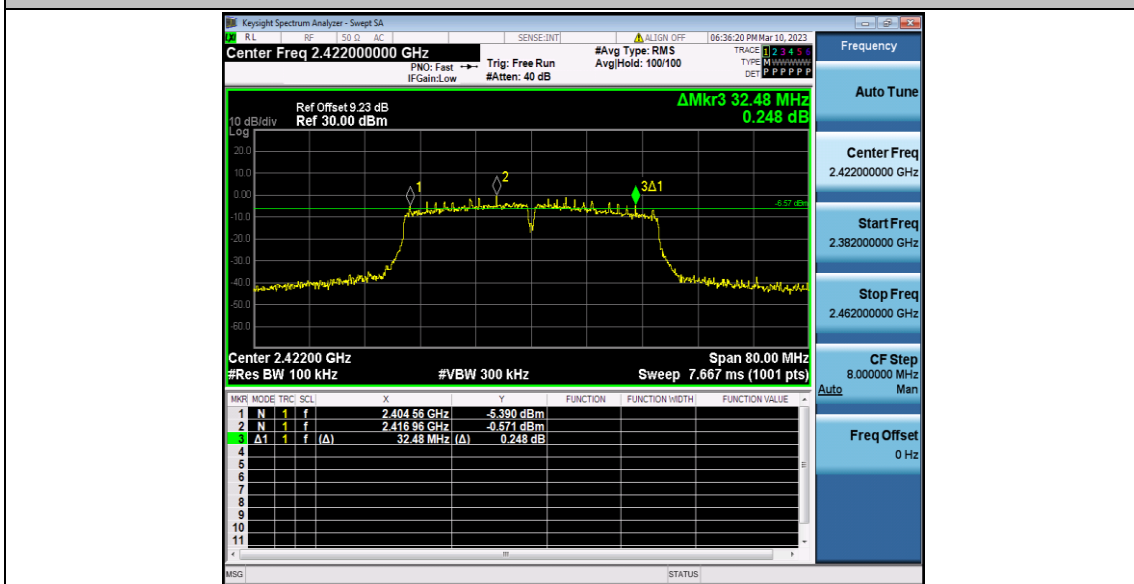
11N20SISO\_Ant1\_2437



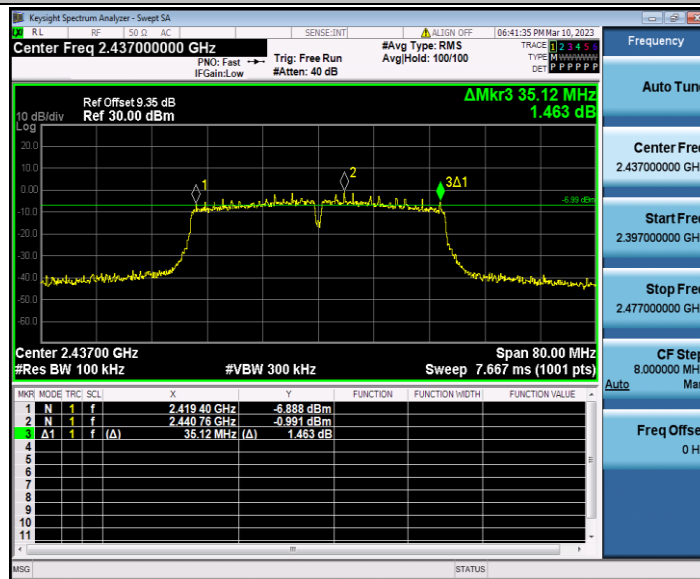
11N20SISO\_Ant1\_2462



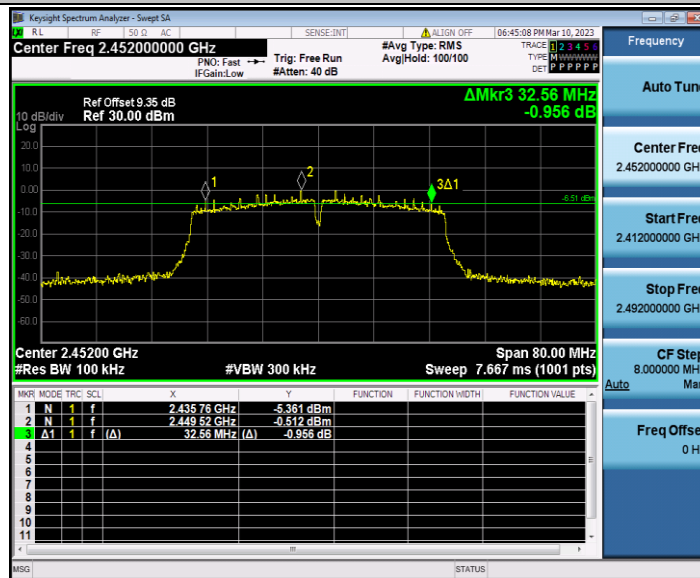
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

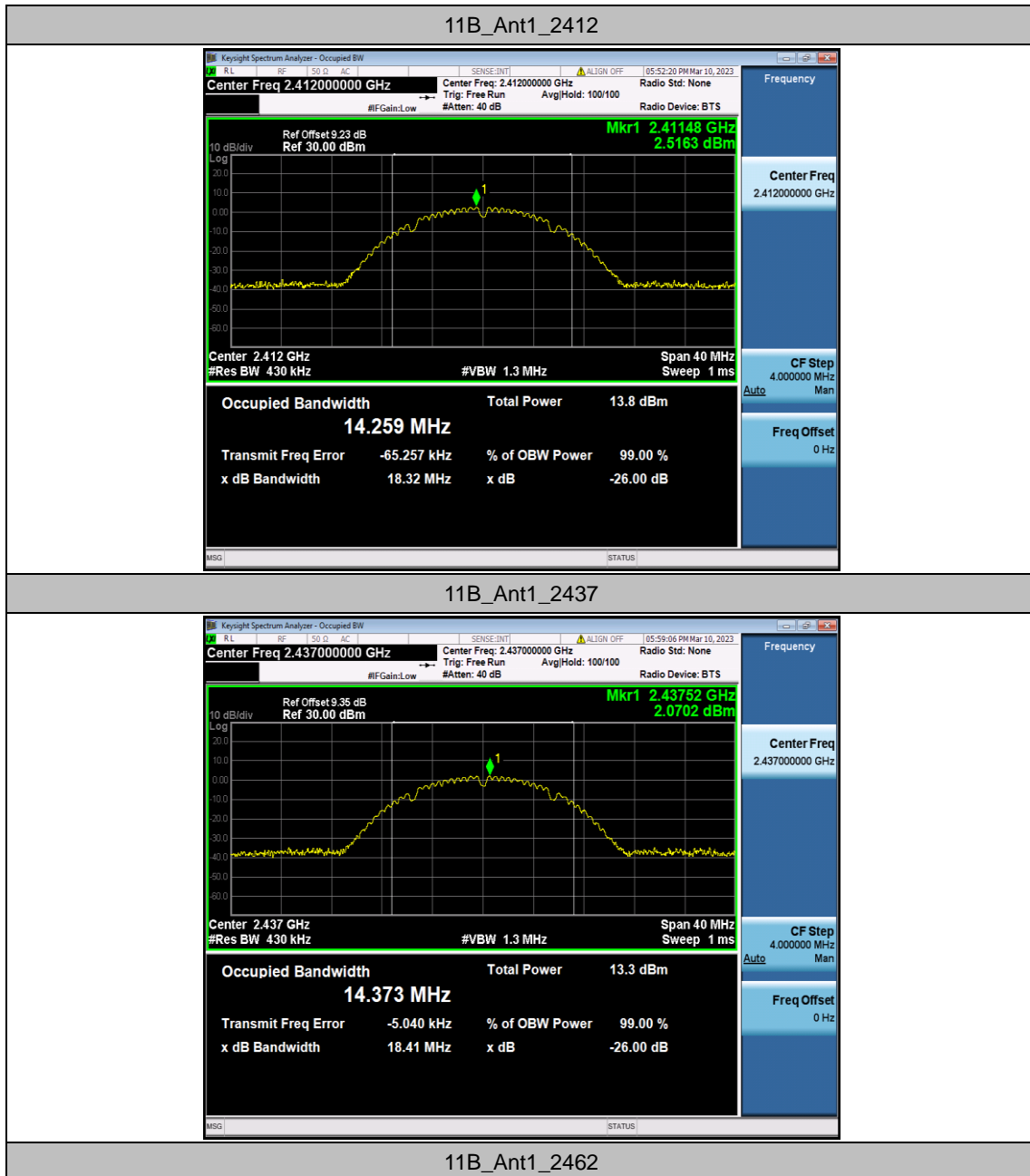


## Appendix A.2: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.259	2404.805	2419.064	---	---
		2437	14.373	2429.808	2444.181	---	---
		2462	14.284	2454.823	2469.107	---	---
11G	Ant1	2412	16.708	2403.573	2420.281	---	---
		2437	16.835	2428.587	2445.422	---	---
		2462	16.716	2453.557	2470.273	---	---
11N20SISO	Ant1	2412	17.682	2403.120	2420.802	---	---
		2437	17.749	2428.126	2445.875	---	---
		2462	17.768	2453.081	2470.849	---	---
11N40SISO	Ant1	2422	35.954	2403.931	2439.885	---	---
		2437	36.056	2418.932	2454.988	---	---
		2452	35.893	2434.057	2469.950	---	---

## Test Graphs







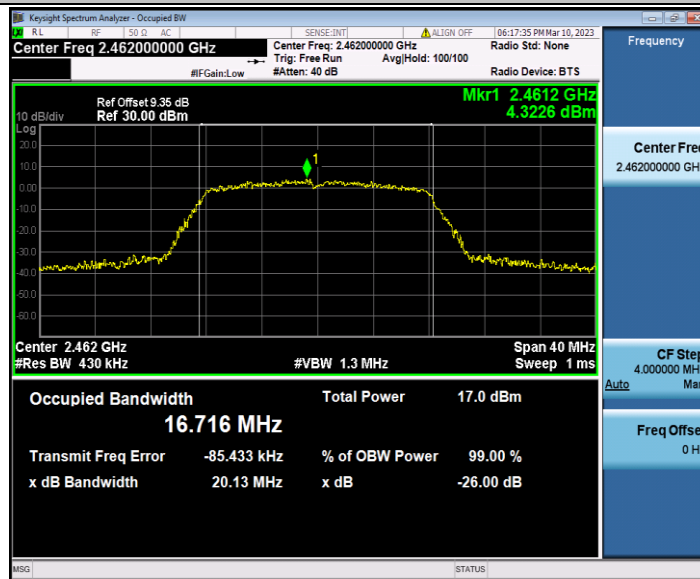
11G\_Ant1\_2412



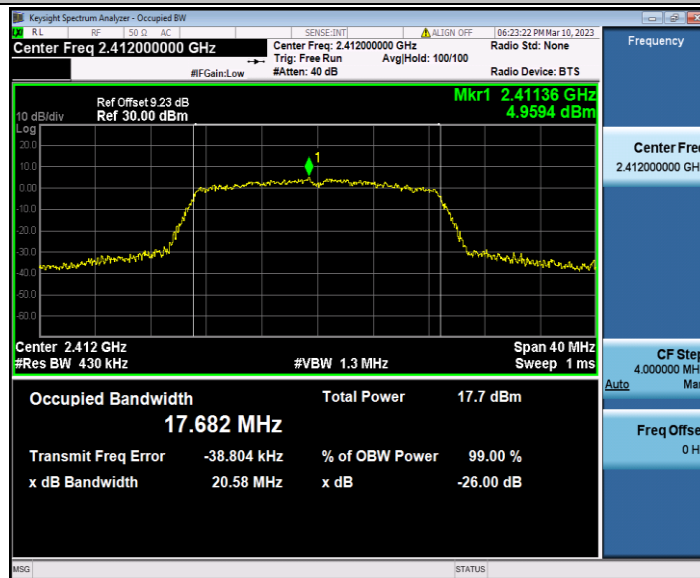
11G\_Ant1\_2437



11G\_Ant1\_2462



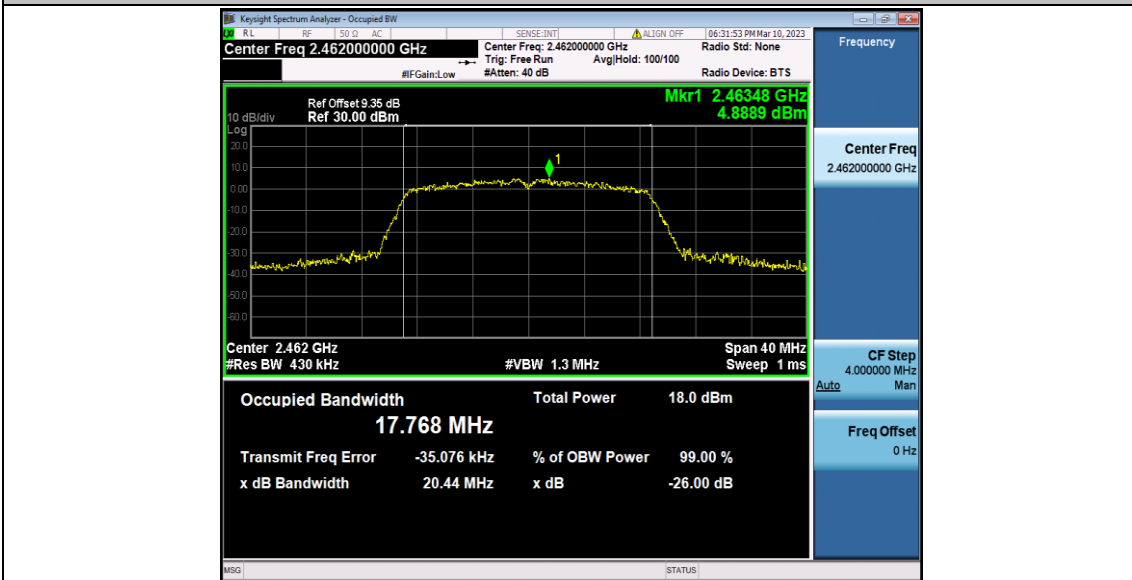
11N20SISO\_Ant1\_2412



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	18.83	≤30.00	PASS
		2437	17.39	≤30.00	PASS
		2462	17.36	≤30.00	PASS
11G	Ant1	2412	18.99	≤30.00	PASS
		2437	18.56	≤30.00	PASS
		2462	18.26	≤30.00	PASS
11N20SISO	Ant1	2412	18.89	≤30.00	PASS
		2437	18.54	≤30.00	PASS
		2462	19.24	≤30.00	PASS
11N40SISO	Ant1	2422	19.50	≤30.00	PASS
		2437	19.01	≤30.00	PASS
		2452	19.25	≤30.00	PASS

## Appendix A.4: Maximum power spectral density

### Test Result

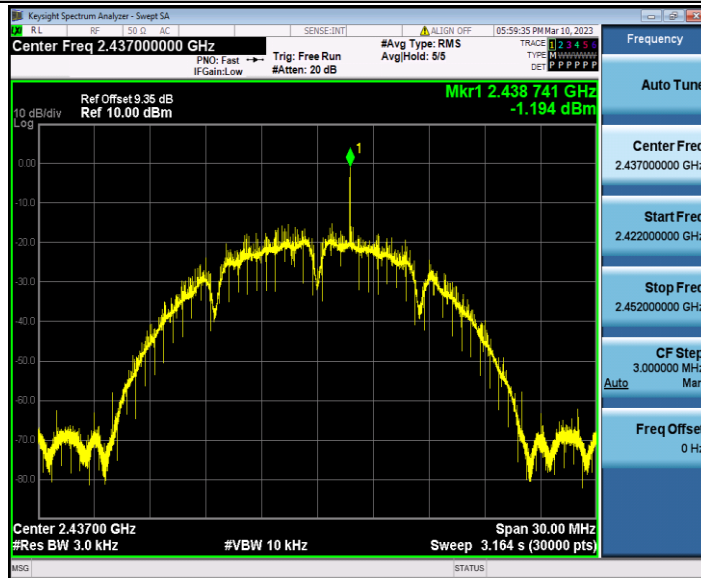
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.43	≤8.00	PASS
		2437	-1.19	≤8.00	PASS
		2462	-2.69	≤8.00	PASS
11G	Ant1	2412	-15.77	≤8.00	PASS
		2437	-14.83	≤8.00	PASS
		2462	-14.73	≤8.00	PASS
11N20SISO	Ant1	2412	-14.92	≤8.00	PASS
		2437	-13.23	≤8.00	PASS
		2462	-12.71	≤8.00	PASS
11N40SISO	Ant1	2422	-16.34	≤8.00	PASS
		2437	-16.94	≤8.00	PASS
		2452	-15.33	≤8.00	PASS

## Test Graphs

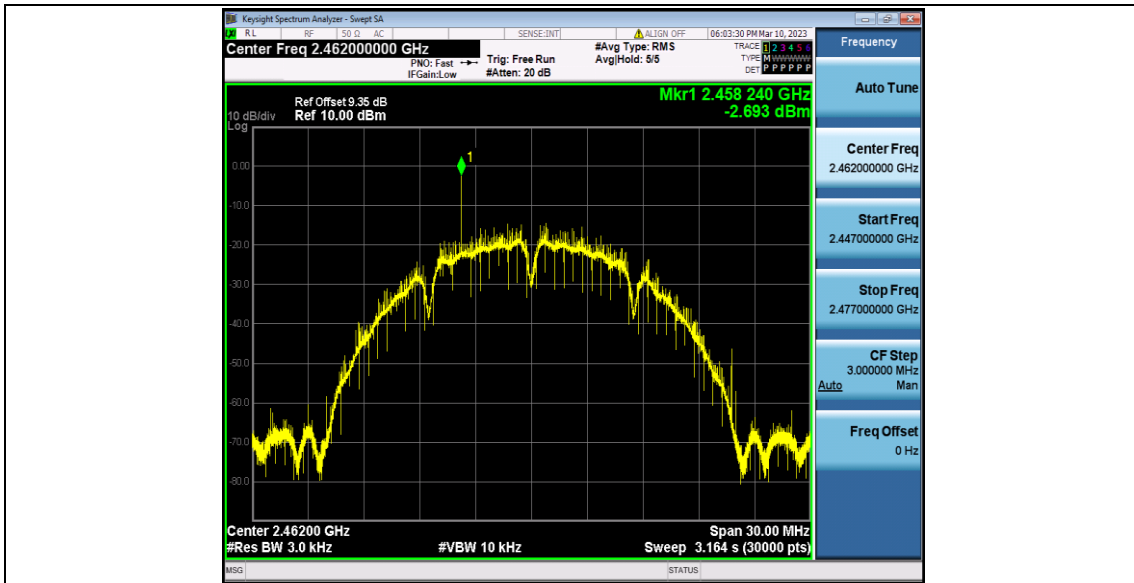
11B\_Ant1\_2412



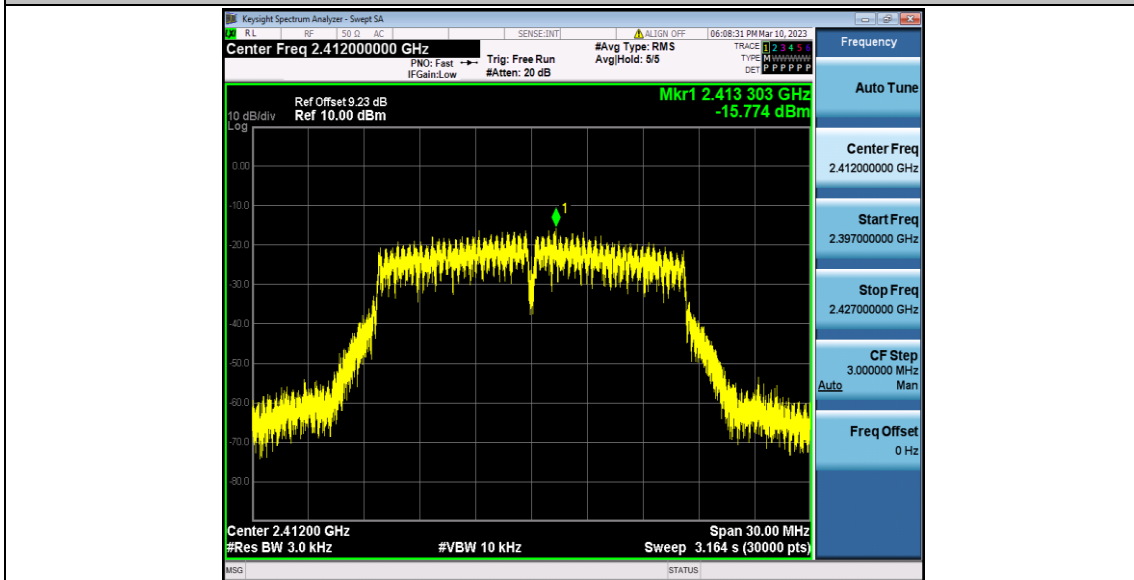
11B\_Ant1\_2437



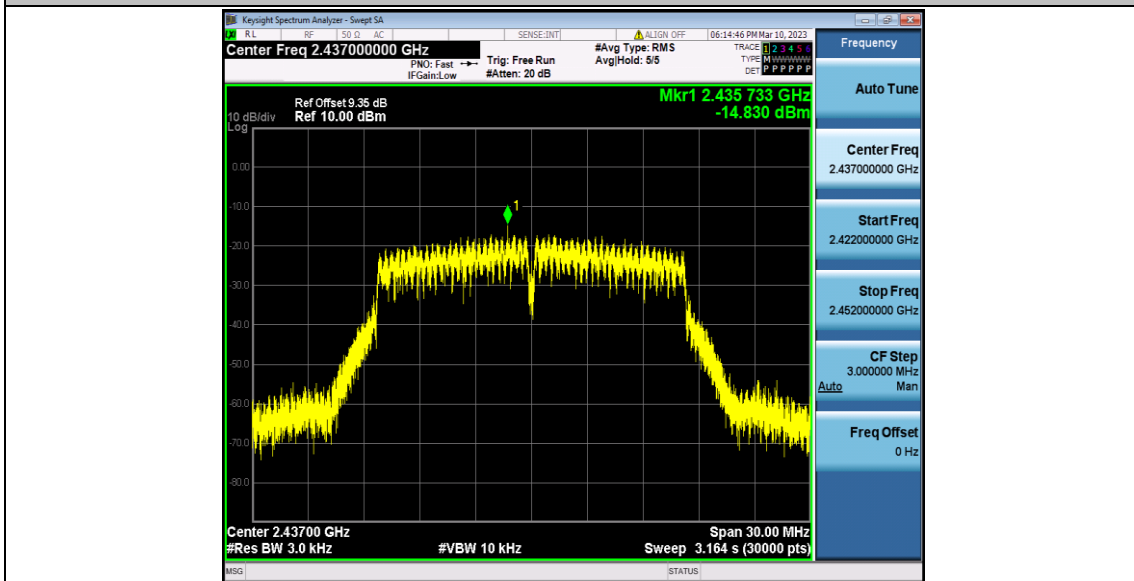
11B\_Ant1\_2462



11G\_Ant1\_2412

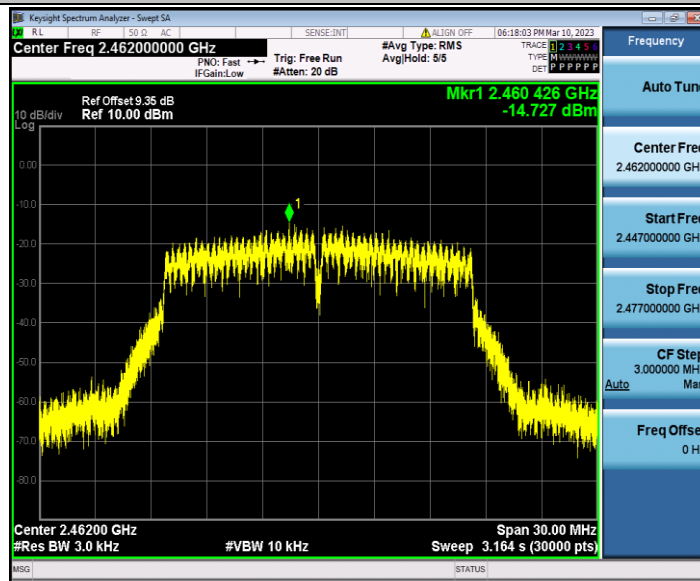


11G\_Ant1\_2437

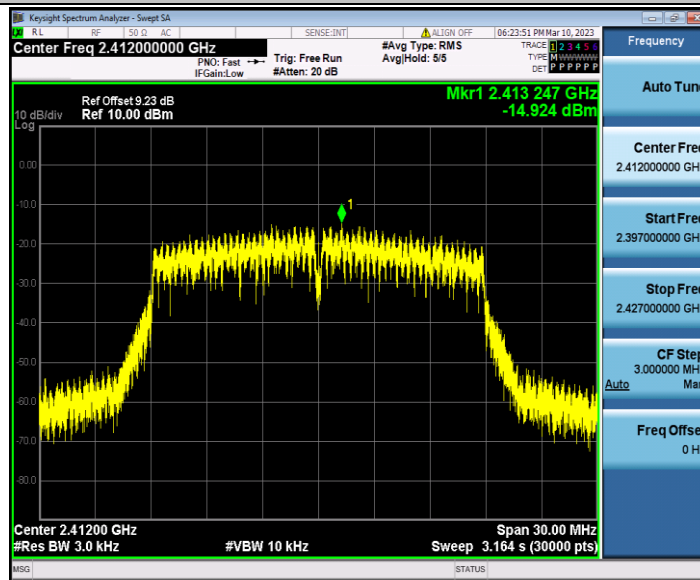




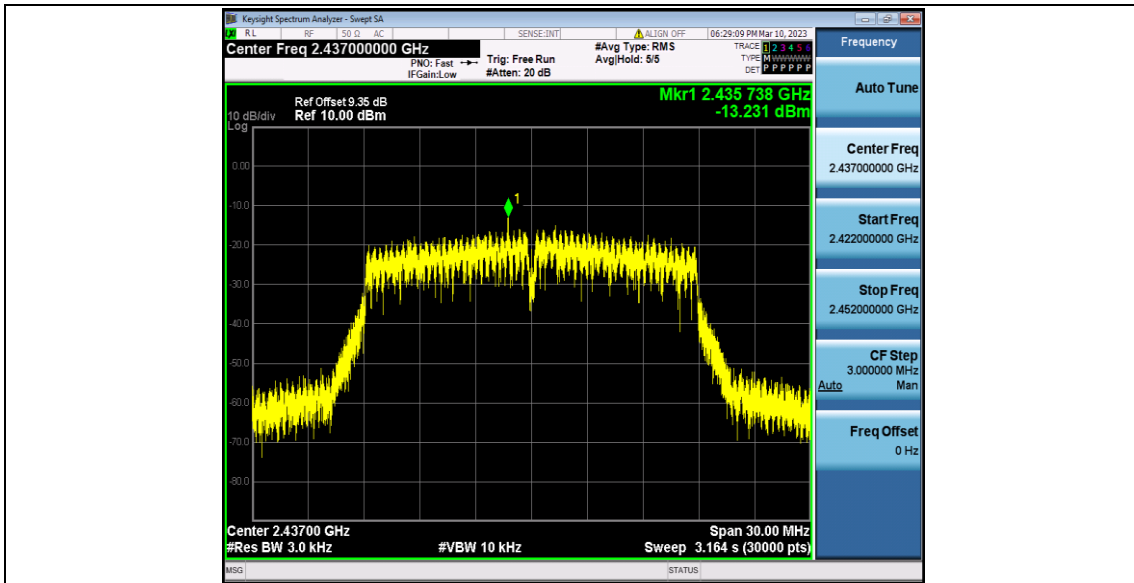
11G\_Ant1\_2462



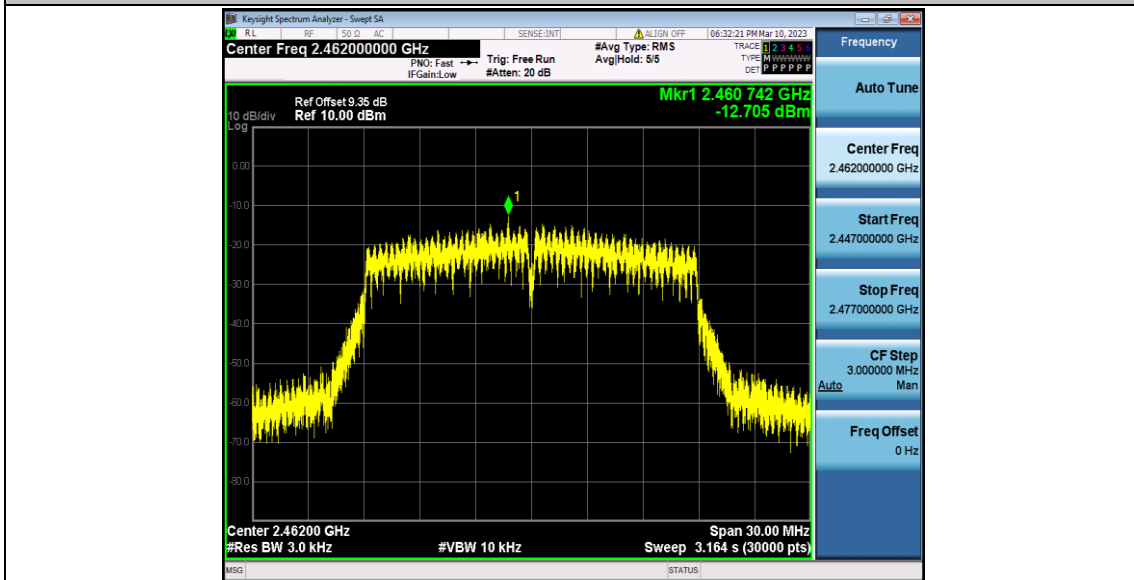
11N20SISO\_Ant1\_2412



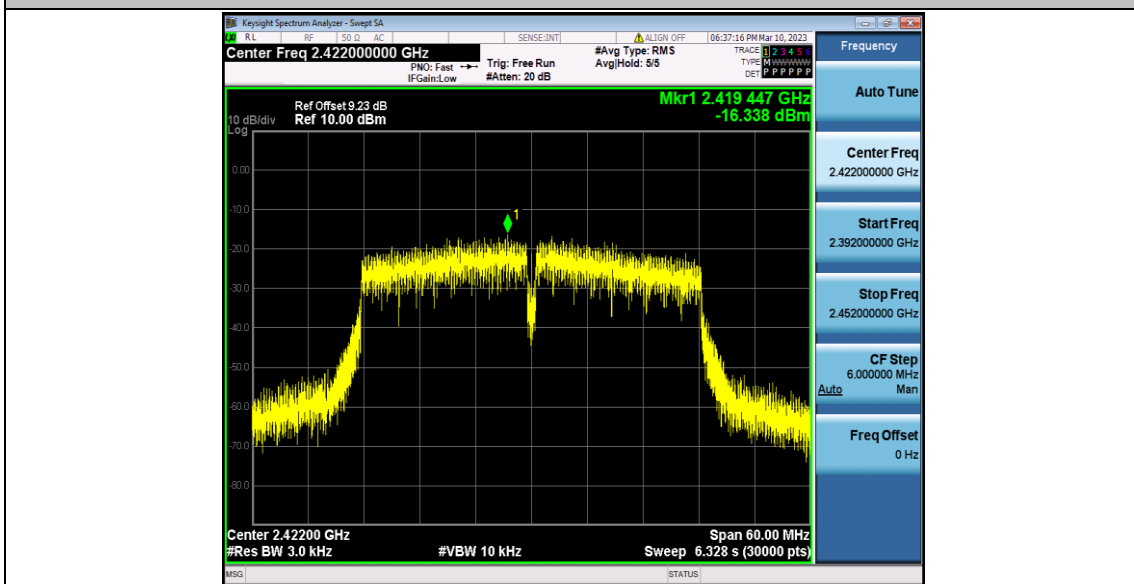
11N20SISO\_Ant1\_2437



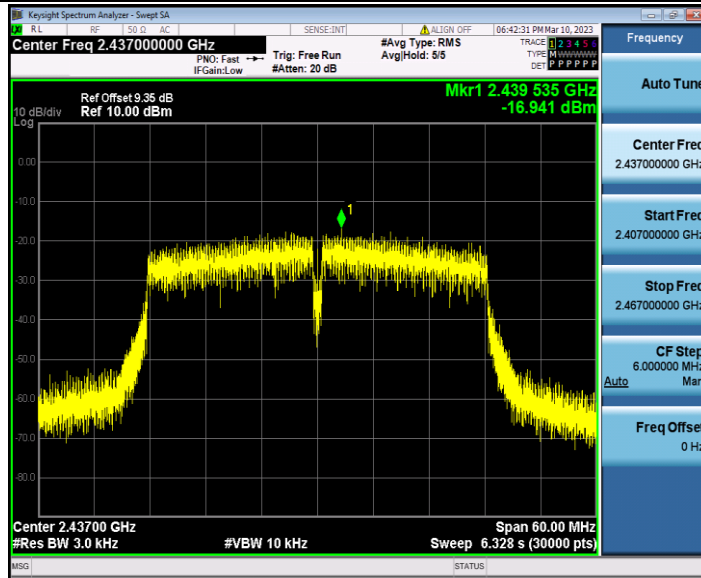
11N20SISO\_Ant1\_2462



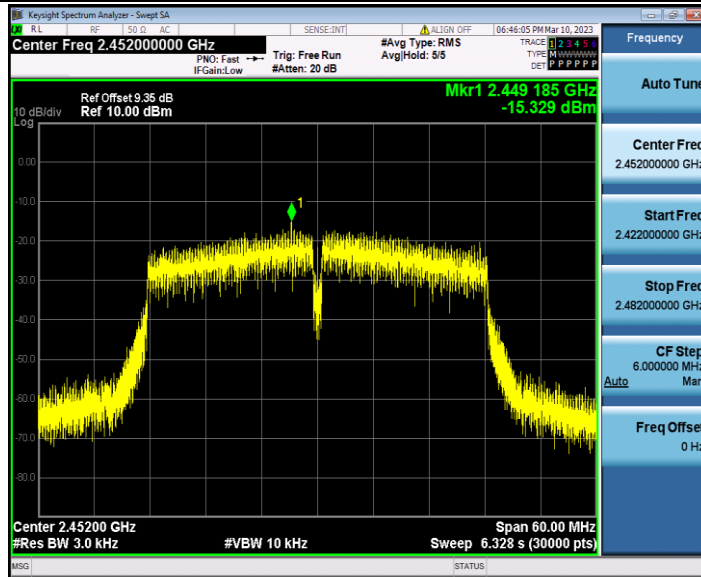
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



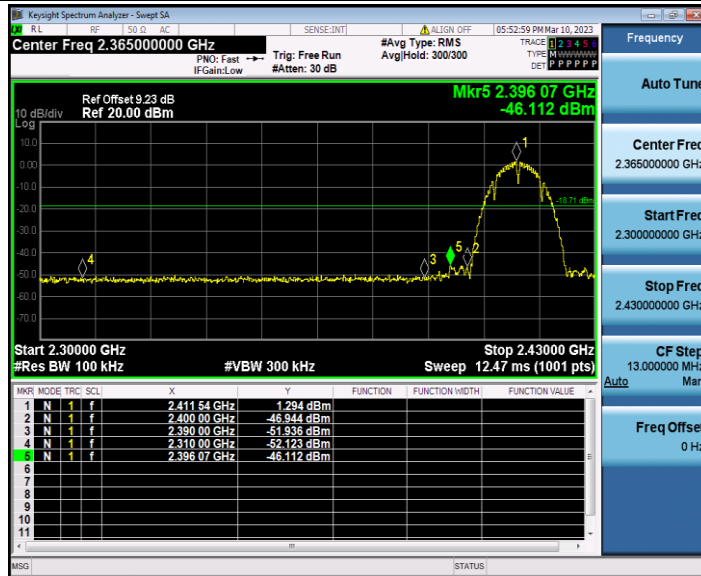
## Appendix A.5: Band edge measurements

### Test Result

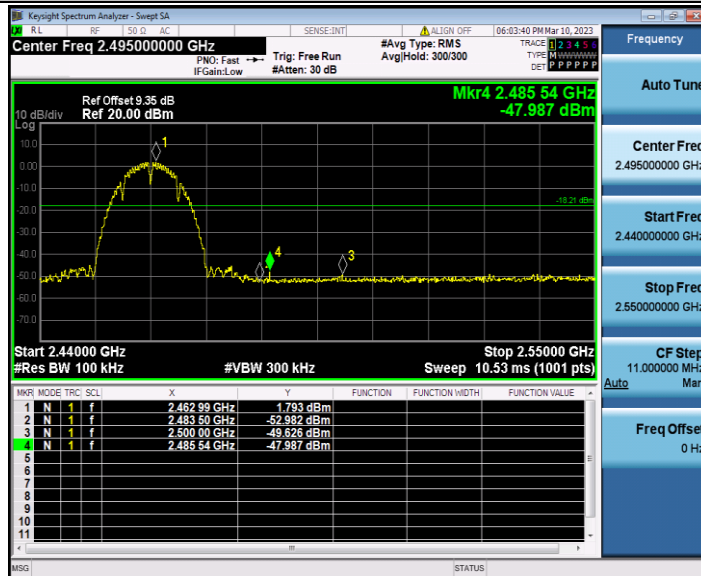
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.29	-46.11	≤-18.71	PASS
		High	2462	1.79	-47.99	≤-18.21	PASS
11G	Ant1	Low	2412	1.00	-37.86	≤-19	PASS
		High	2462	1.40	-48.09	≤-18.6	PASS
11N20SISO	Ant1	Low	2412	1.96	-35.71	≤-18.05	PASS
		High	2462	2.40	-46.27	≤-17.6	PASS
11N40SISO	Ant1	Low	2422	-0.20	-35.52	≤-20.2	PASS
		High	2452	-0.26	-41.15	≤-20.26	PASS

## Test Graphs

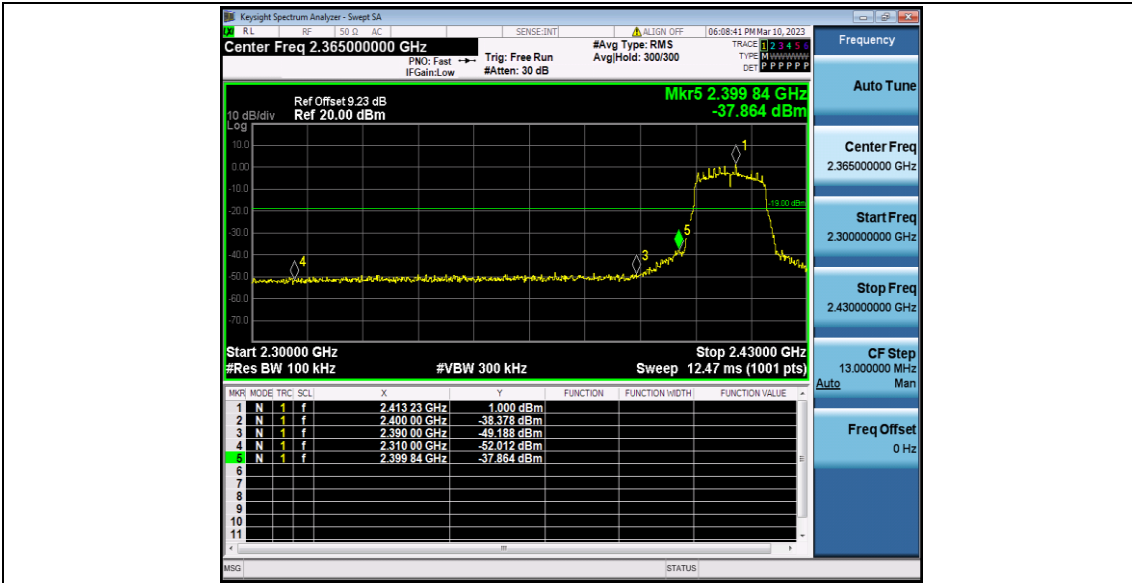
11B\_Ant1\_Low\_2412



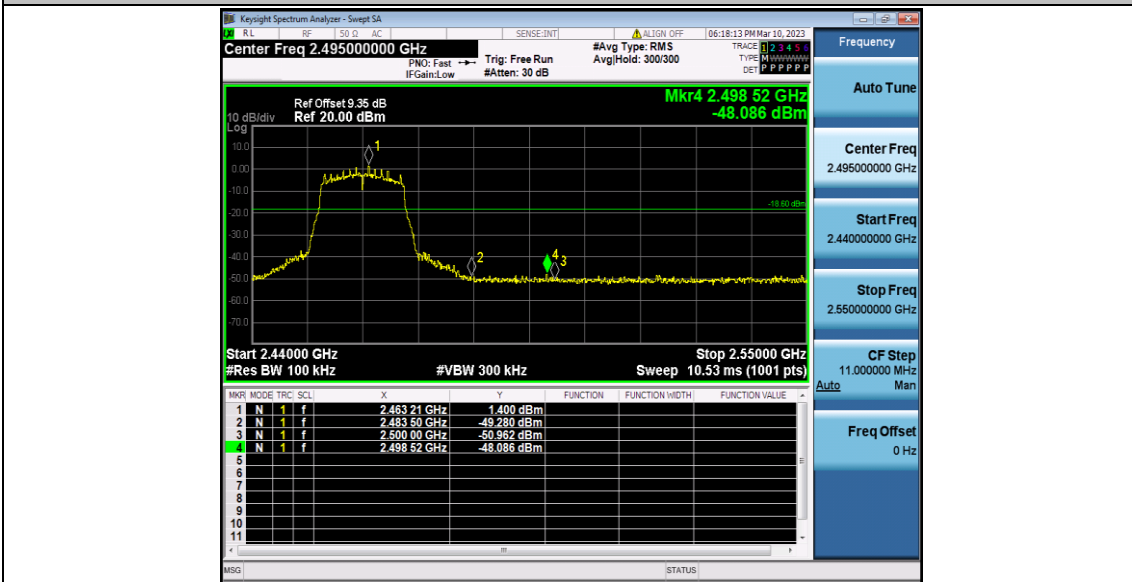
11B\_Ant1\_High\_2462



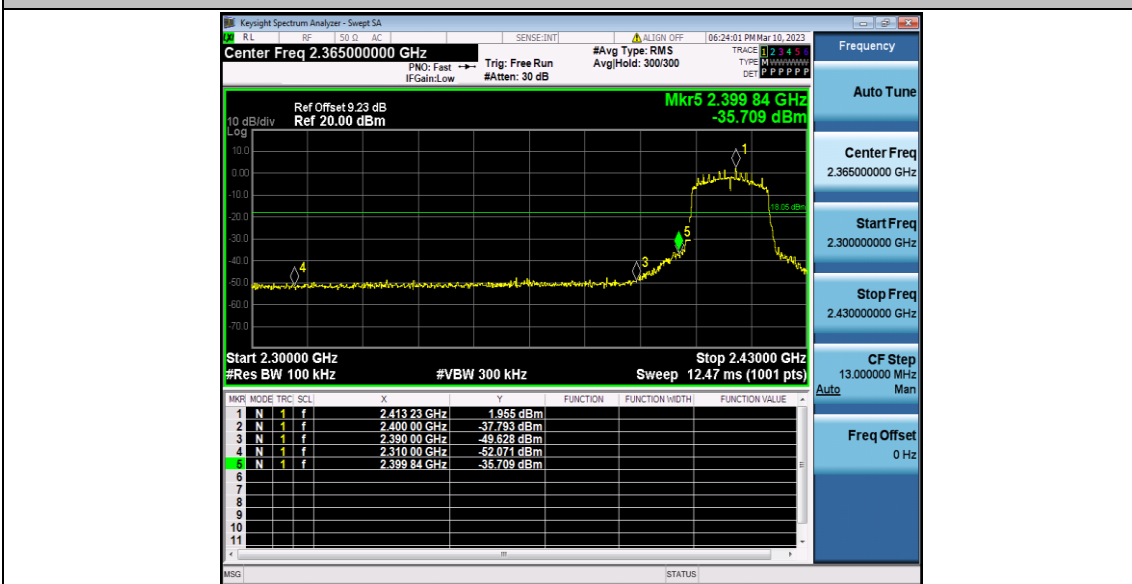
11G\_Ant1\_Low\_2412



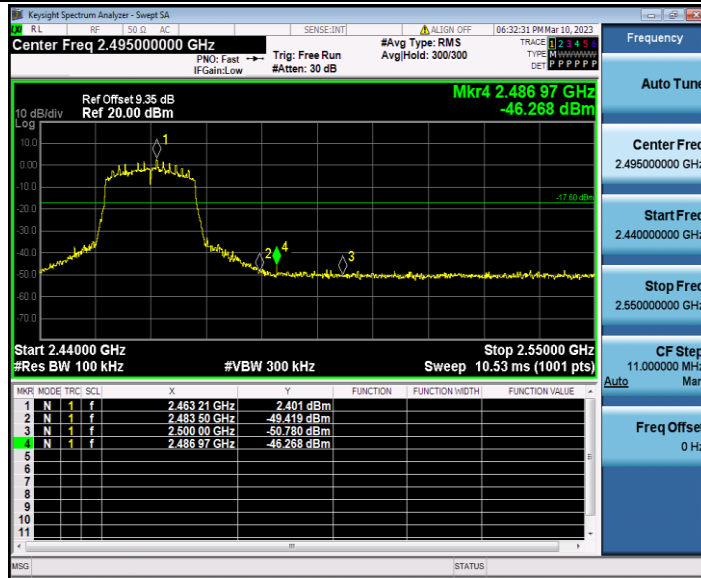
11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



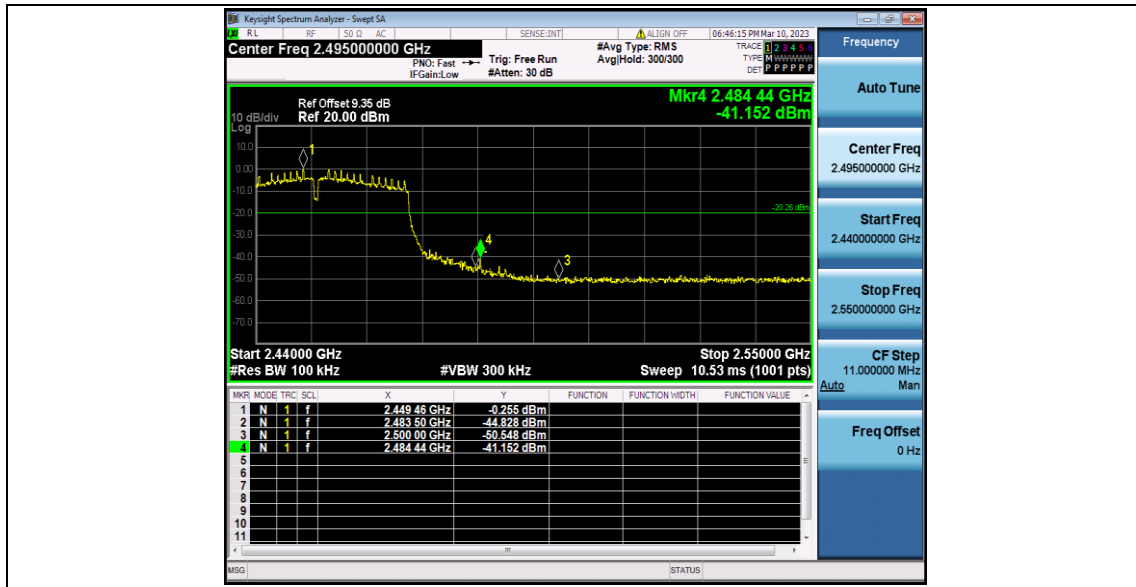
11N20SISO\_Ant1\_High\_2462



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	-0.20	-0.20	---	PASS
			30~1000	-0.20	-57.56	≤-20.2	PASS
			1000~26500	-0.20	-46.79	≤-20.2	PASS
		2437	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-58.04	≤-19.64	PASS
			1000~26500	0.36	-47.29	≤-19.64	PASS
		2462	Reference	1.34	1.34	---	PASS
			30~1000	1.34	-58.16	≤-18.66	PASS
			1000~26500	1.34	-47.87	≤-18.66	PASS
11G	Ant1	2412	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-52.61	≤-23.24	PASS
			1000~26500	-3.24	-47.23	≤-23.24	PASS
		2437	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-57.6	≤-21.03	PASS
			1000~26500	-1.03	-47.44	≤-21.03	PASS
		2462	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-57.81	≤-20.54	PASS
			1000~26500	-0.54	-47.87	≤-20.54	PASS
11N20SISO	Ant1	2412	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-58.14	≤-20.24	PASS
			1000~26500	-0.24	-47.82	≤-20.24	PASS
		2437	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-57.74	≤-21.71	PASS
			1000~26500	-1.71	-47.19	≤-21.71	PASS
		2462	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-55.9	≤-20.61	PASS
			1000~26500	-0.61	-47.39	≤-20.61	PASS
11N40SISO	Ant1	2422	Reference	-2.11	-2.11	---	PASS
			30~1000	-2.11	-56.1	≤-22.11	PASS
			1000~26500	-2.11	-47.52	≤-22.11	PASS
		2437	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-56.12	≤-22.25	PASS
			1000~26500	-2.25	-47.61	≤-22.25	PASS
		2452	Reference	-1.03	-1.03	---	PASS
			30~1000	-1.03	-52.34	≤-21.03	PASS
			1000~26500	-1.03	-47.37	≤-21.03	PASS