

<b>Case No. :</b> <u>GTS20231209008-1-3</u>
<b>Ambient Condition:</b> <u>24</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.12.29</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## Appendix B.1: DTS Bandwidth

### Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.960	2407.080	2417.040	0.5	PASS
		2437	10.200	2432.480	2442.680	0.5	PASS
		2462	11.040	2456.560	2467.600	0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	0.5	PASS
		2437	16.400	2428.800	2445.200	0.5	PASS
		2462	16.400	2453.800	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.480	2420.800	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.360	2453.240	2470.600	0.5	PASS

## Test Graphs



11B\_Ant1\_2412



11B\_Ant1\_2437



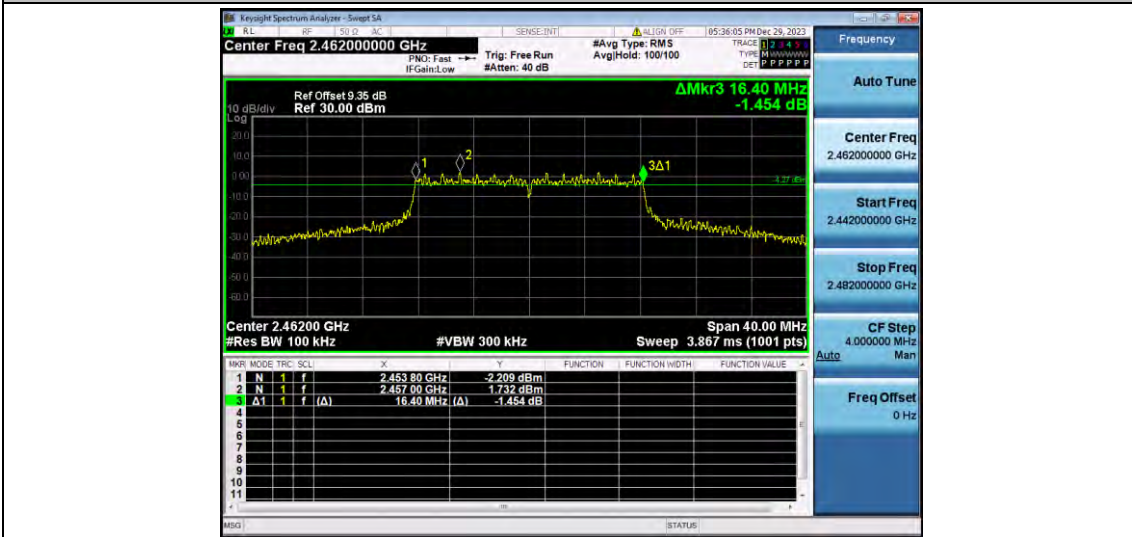
11B\_Ant1\_2462



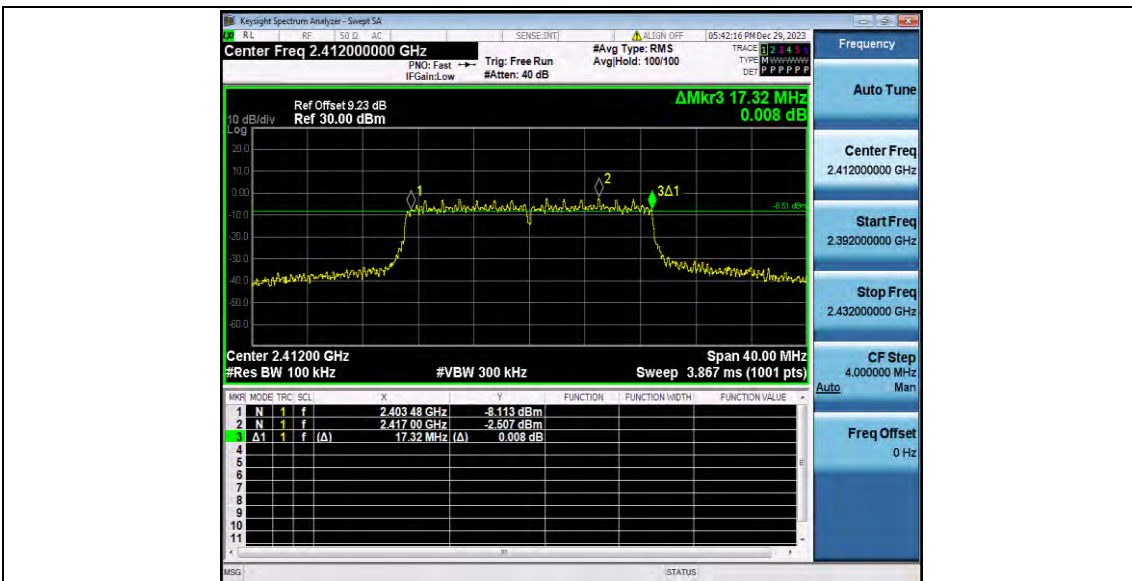
11G\_Ant1\_2412



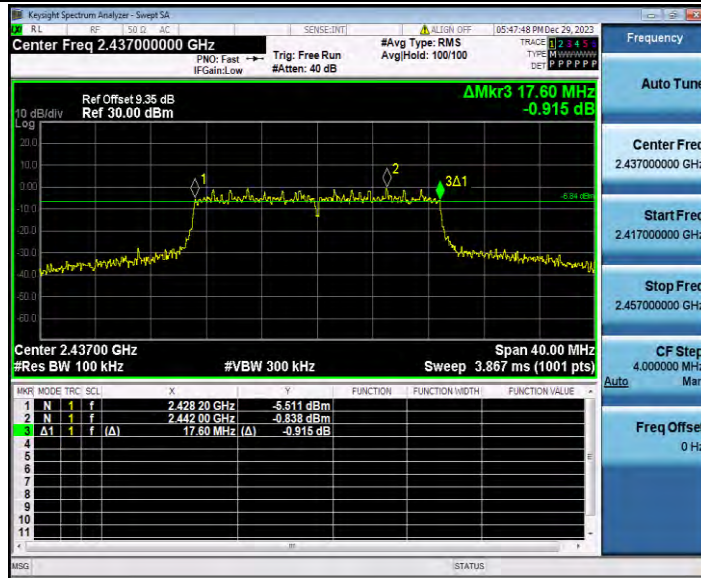
11G\_Ant1\_2437



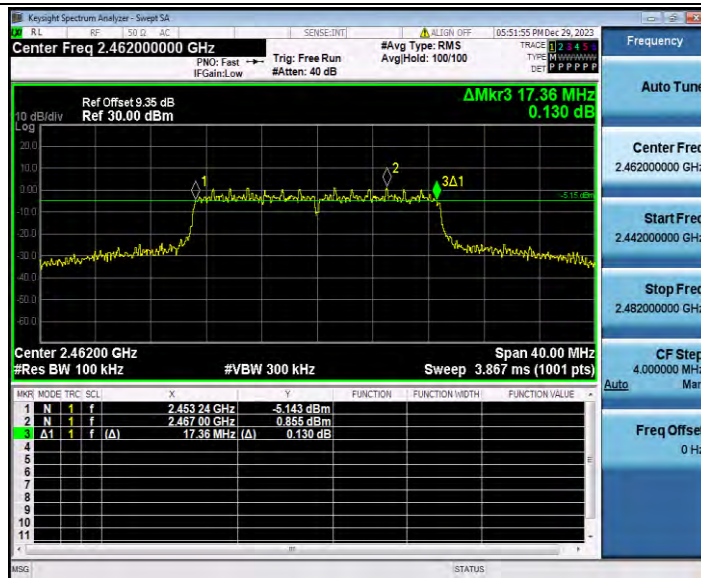
11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

## Appendix B.2: Occupied Channel Bandwidth

### Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.224	2404.491	2419.715	---	---
		2437	15.344	2429.443	2444.787	---	---
		2462	15.570	2454.242	2469.812	---	---
11G	Ant1	2412	16.897	2403.610	2420.507	---	---
		2437	17.027	2428.545	2445.572	---	---
		2462	17.280	2453.418	2470.698	---	---
11N20SISO	Ant1	2412	17.746	2403.160	2420.906	---	---
		2437	17.825	2428.106	2445.931	---	---
		2462	17.905	2453.063	2470.968	---	---

## Test Graphs



11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462



11G\_Ant1\_2412

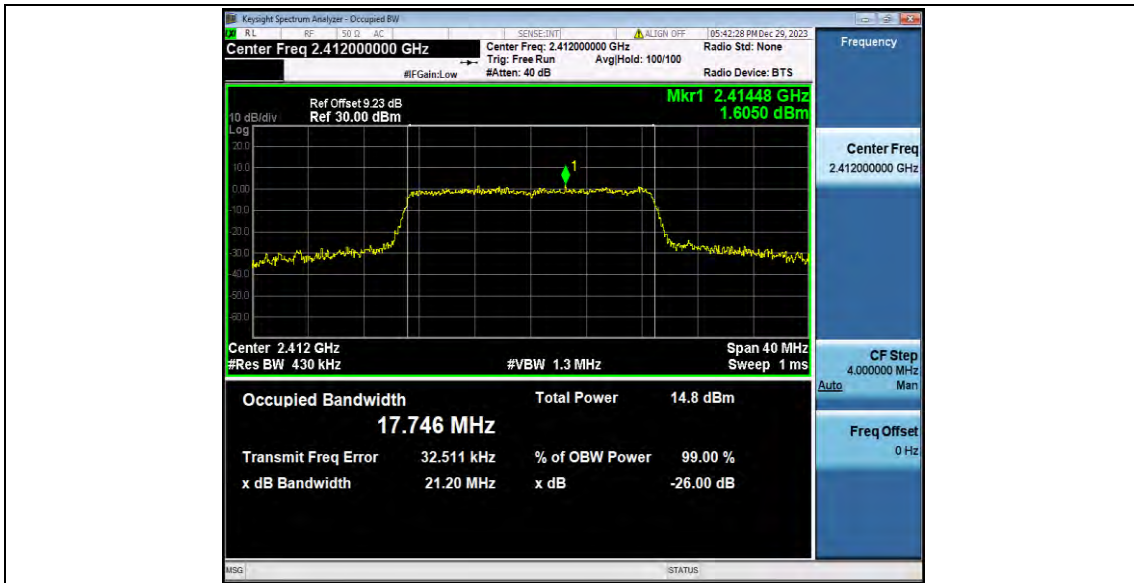




11G\_Ant1\_2437



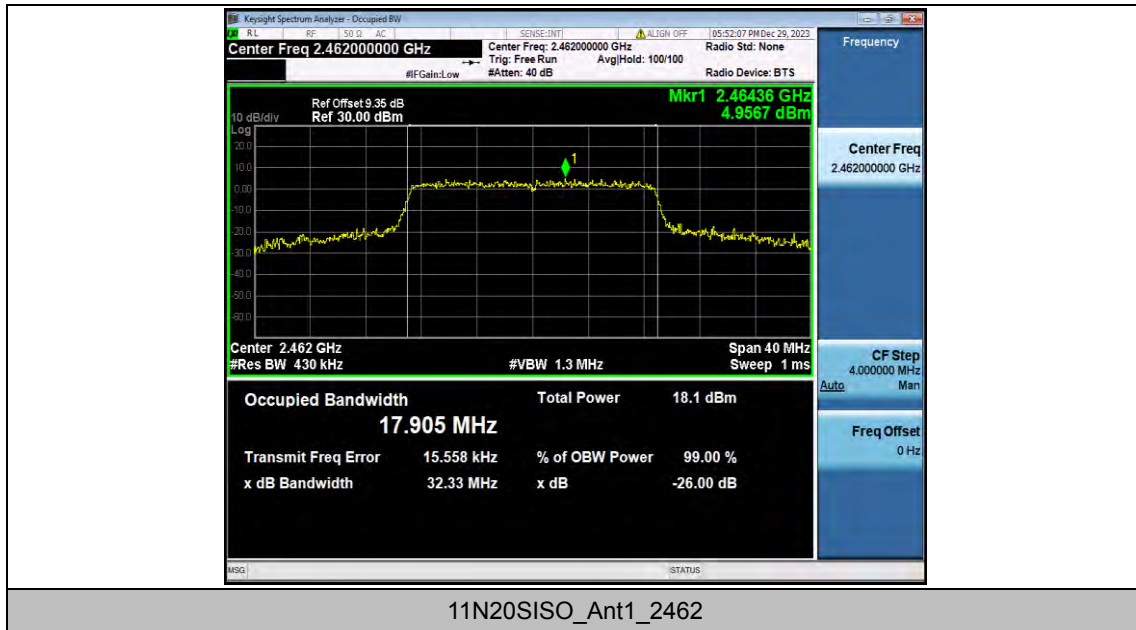
11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

**Appendix B.3: Maximum conducted output power****Test Result Peak**

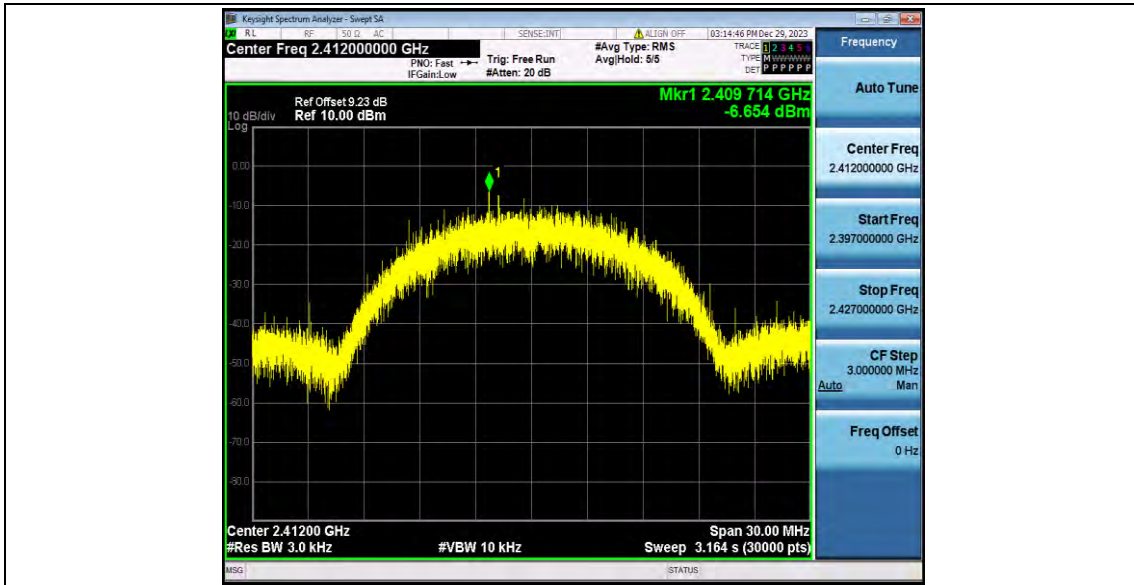
Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	20.41	≤30.00	PASS
		2437	20.56	≤30.00	PASS
		2462	21.60	≤30.00	PASS
11G	Ant1	2412	16.49	≤30.00	PASS
		2437	18.02	≤30.00	PASS
		2462	19.51	≤30.00	PASS
11N20SISO	Ant1	2412	15.60	≤30.00	PASS
		2437	17.09	≤30.00	PASS
		2462	18.85	≤30.00	PASS

## Appendix B.4: Maximum power spectral density

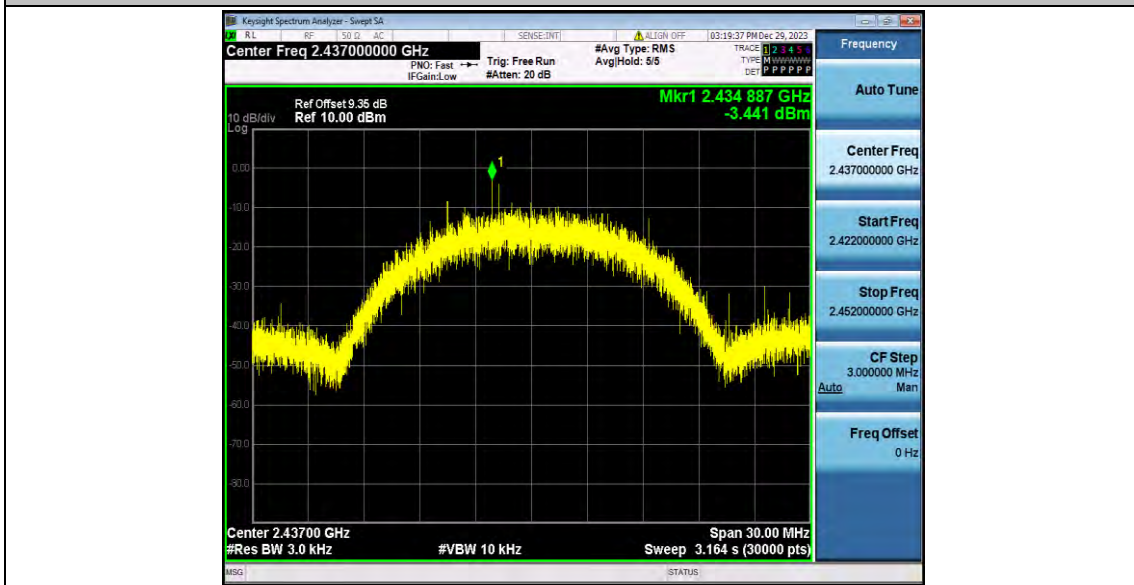
### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-6.65	≤8.00	PASS
		2437	-3.44	≤8.00	PASS
		2462	-8.22	≤8.00	PASS
11G	Ant1	2412	-15.71	≤8.00	PASS
		2437	-15.08	≤8.00	PASS
		2462	-13.89	≤8.00	PASS
11N20SISO	Ant1	2412	-16.92	≤8.00	PASS
		2437	-16.48	≤8.00	PASS
		2462	-13.43	≤8.00	PASS

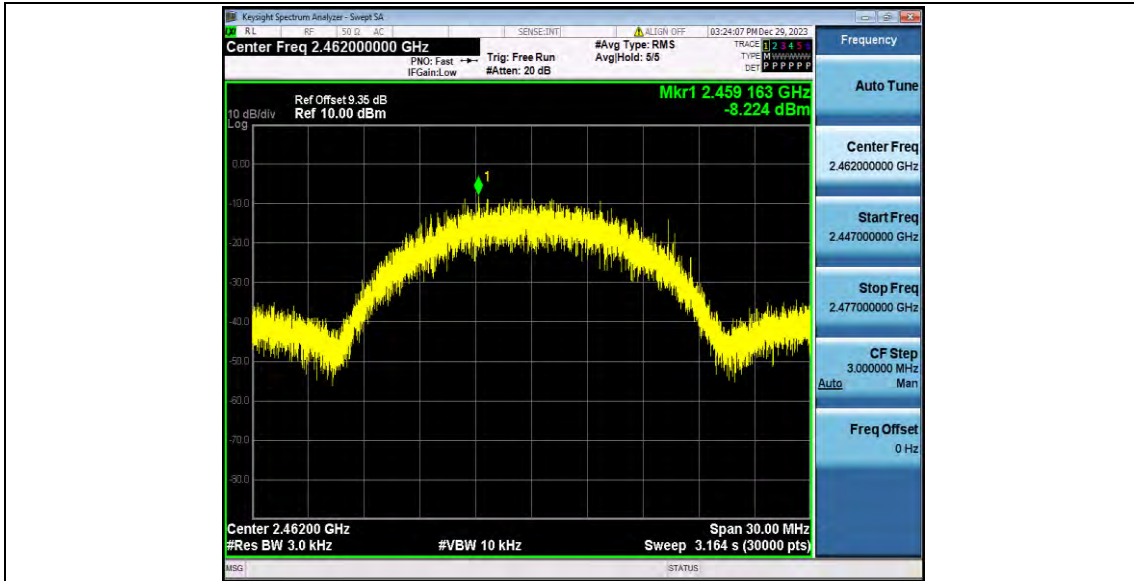
## Test Graphs



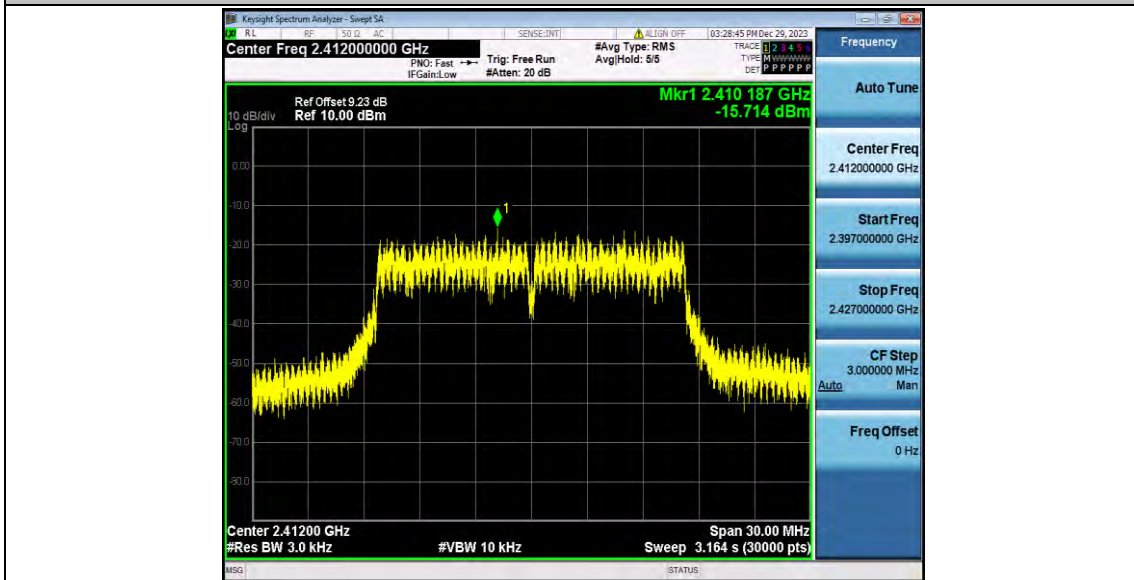
11B\_Ant1\_2412



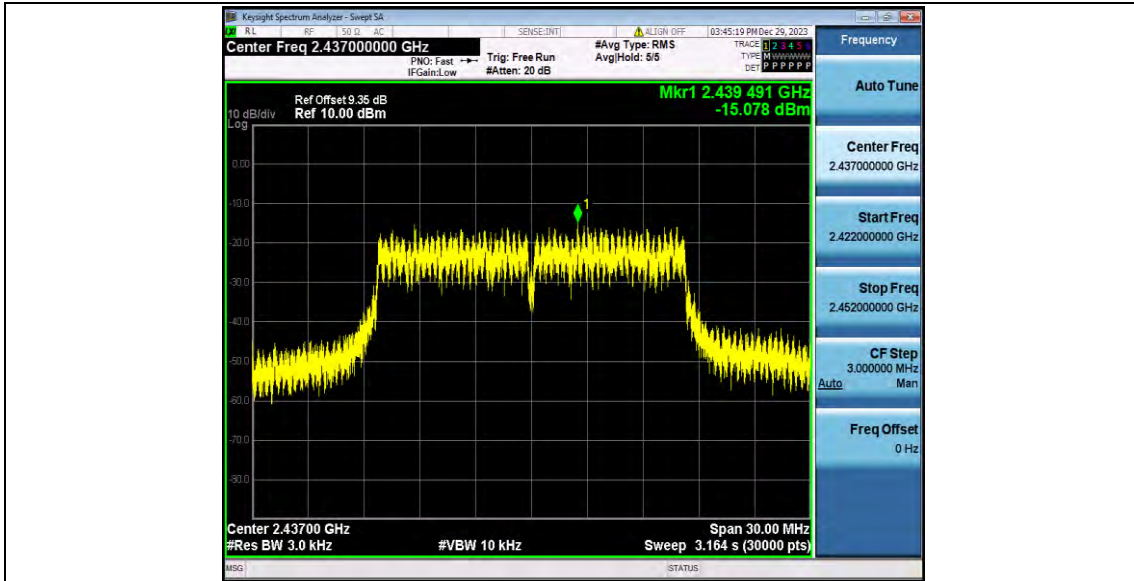
11B\_Ant1\_2437



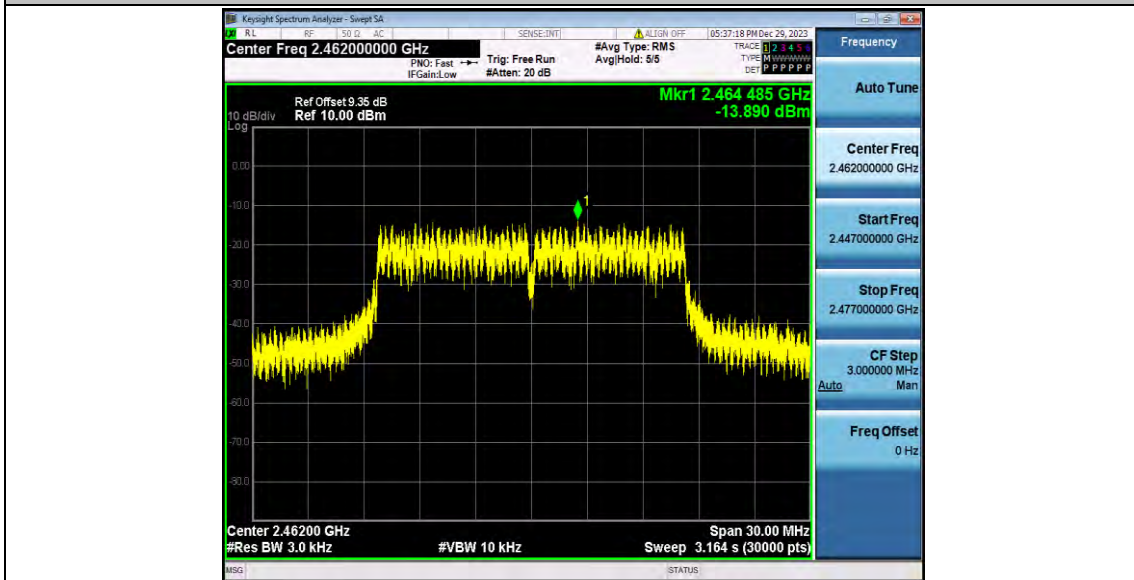
11B\_Ant1\_2462



11G\_Ant1\_2412

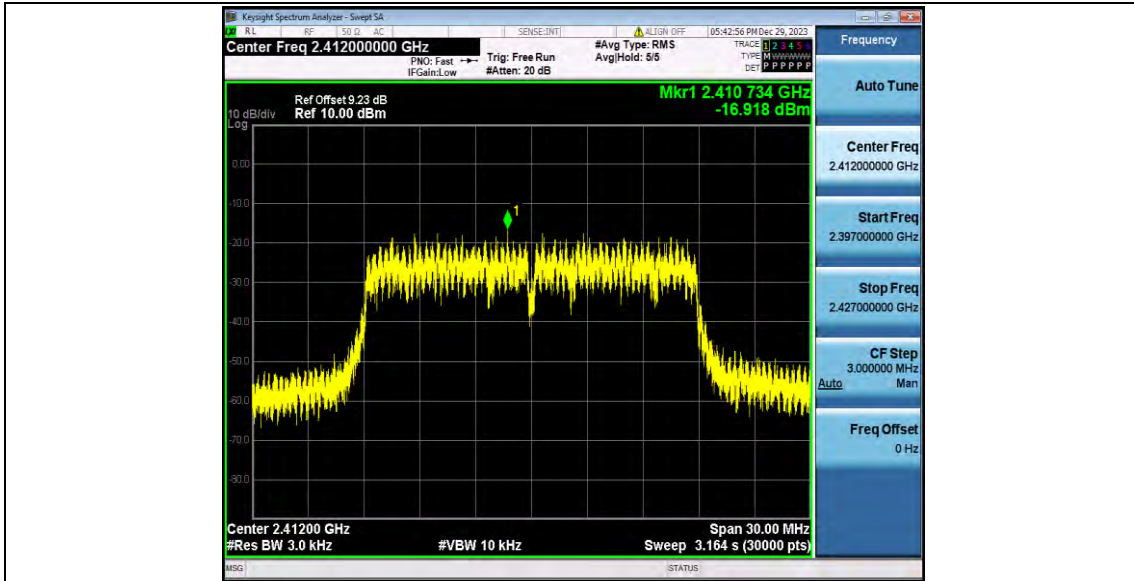


11G\_Ant1\_2437

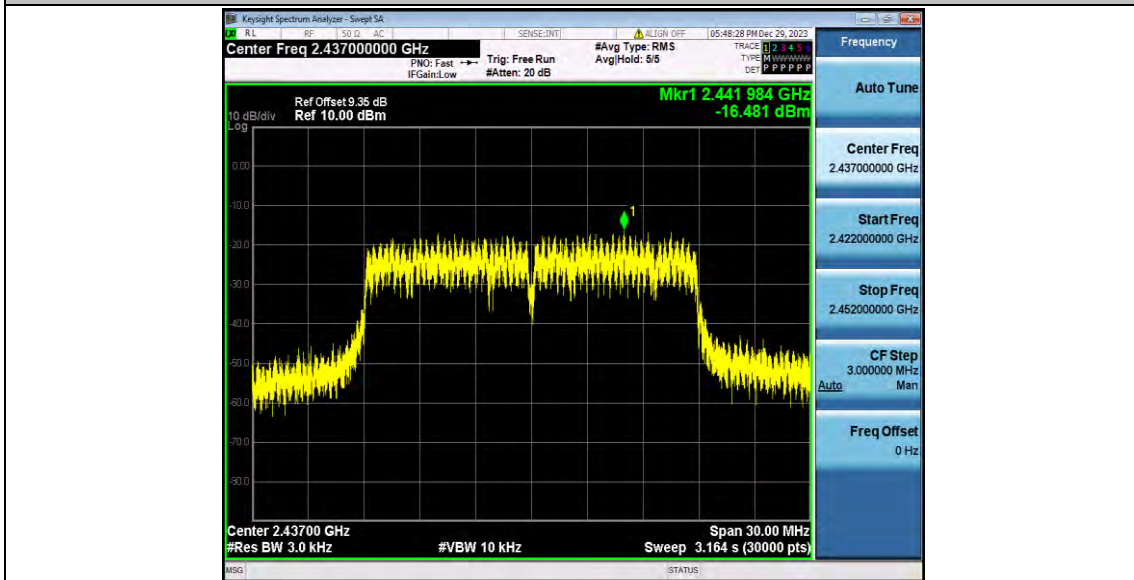


11G\_Ant1\_2462

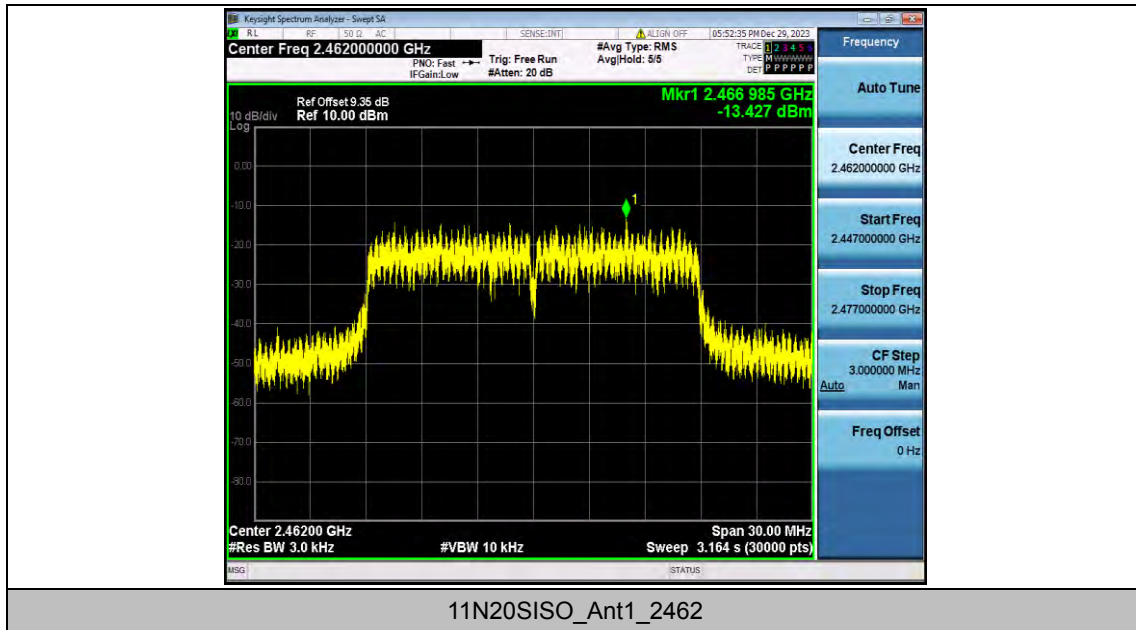




11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



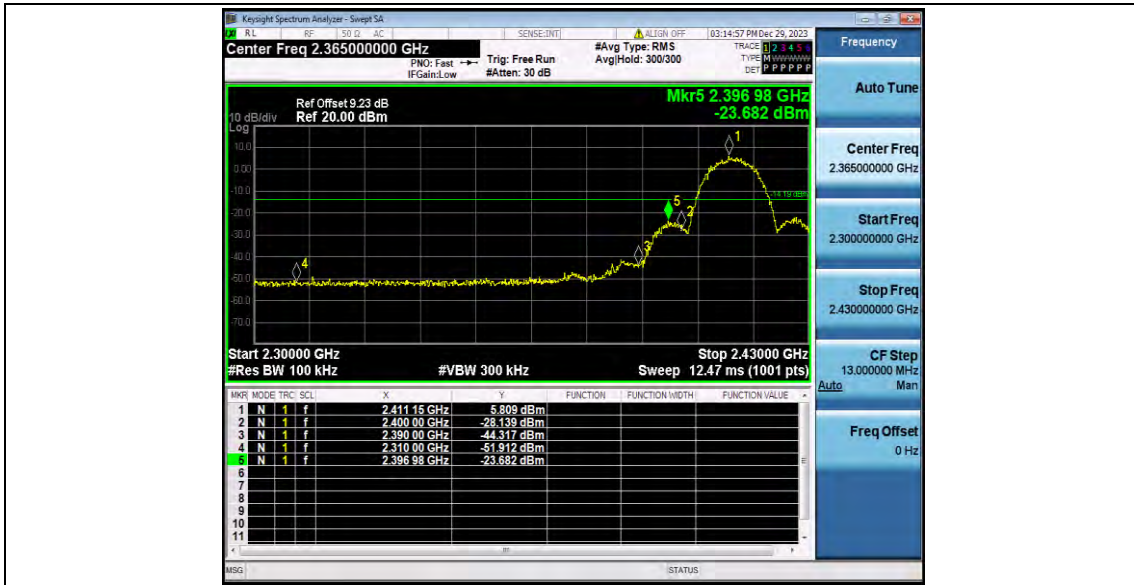
11N20SISO\_Ant1\_2462

## Appendix B.5: Band edge measurements

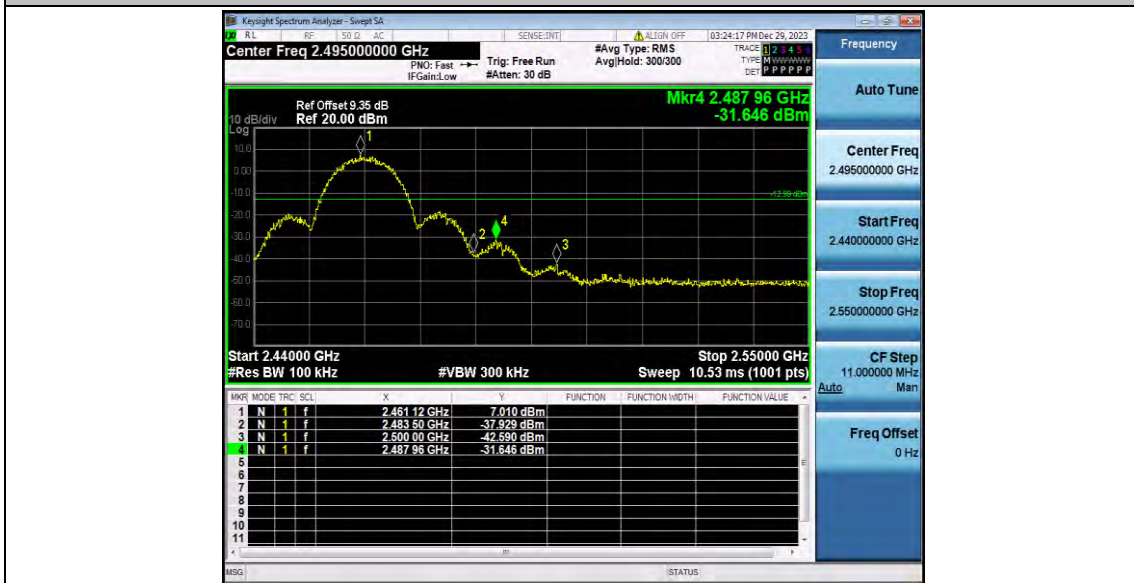
### Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.81	-23.68	$\leq -14.19$	PASS
		High	2462	7.01	-31.65	$\leq -12.99$	PASS
11G	Ant1	Low	2412	-1.57	-31.77	$\leq -21.57$	PASS
		High	2462	1.81	-34.11	$\leq -18.19$	PASS
11N20SISO	Ant1	Low	2412	-2.51	-34.03	$\leq -22.51$	PASS
		High	2462	1.03	-32.04	$\leq -18.97$	PASS

## Test Graphs



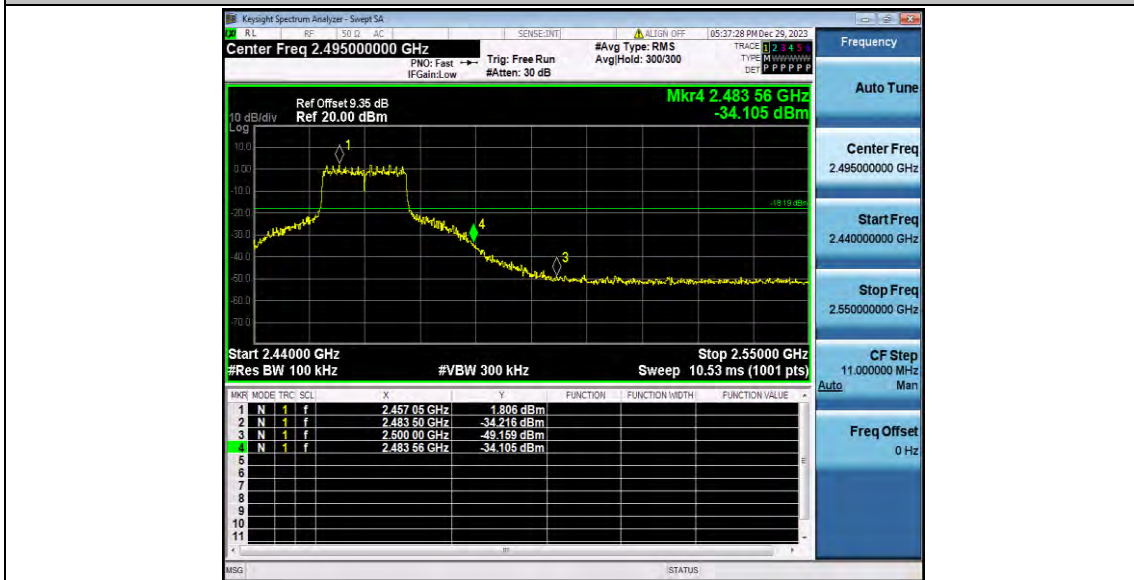
11B\_Ant1\_Low\_2412



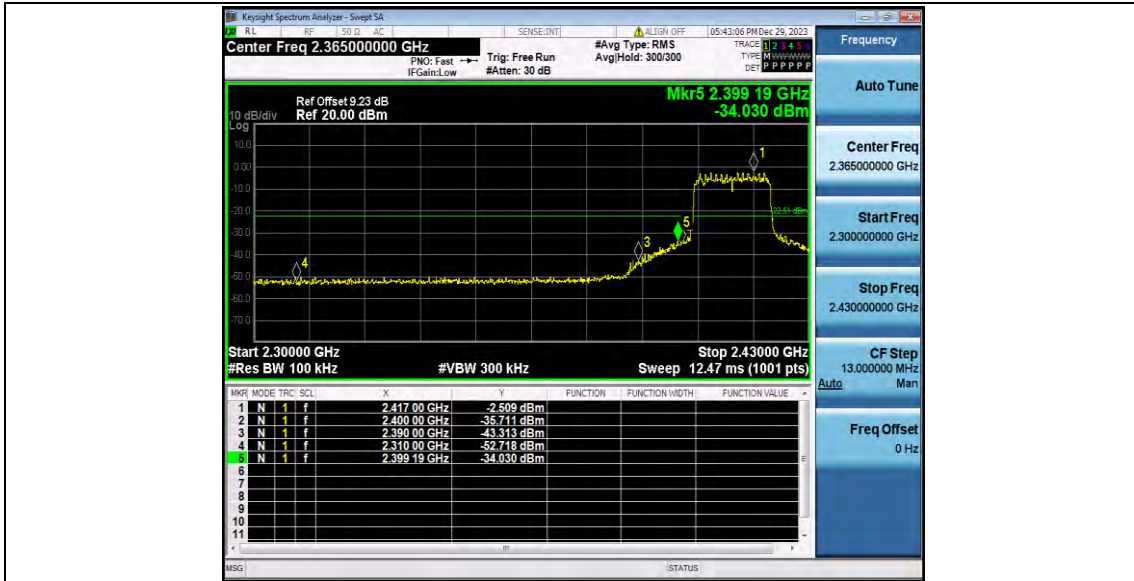
11B\_Ant1\_High\_2462



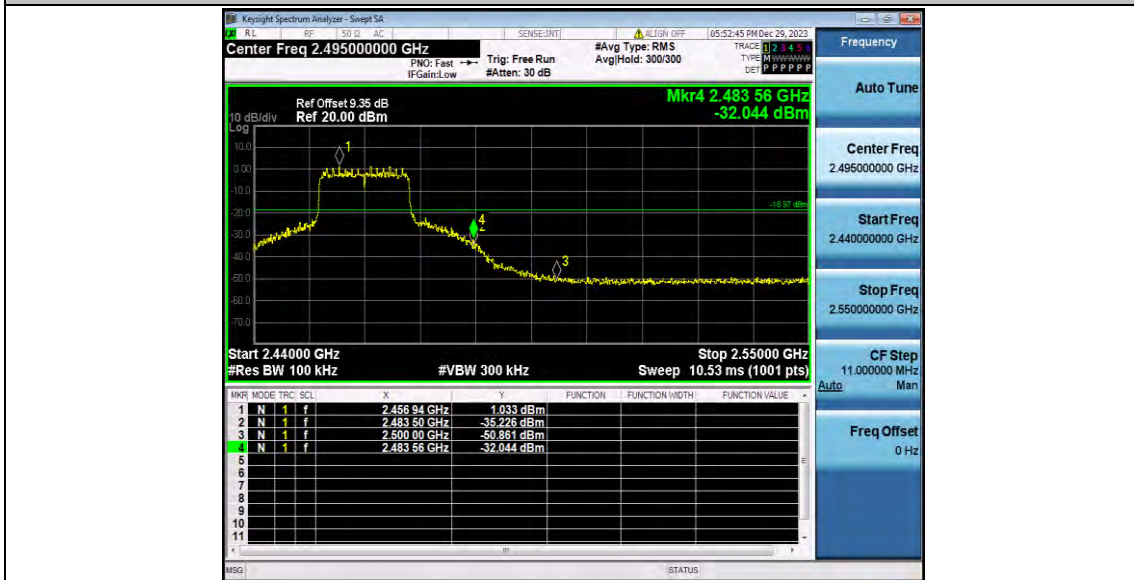
11G\_Ant1\_Low\_2412



11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



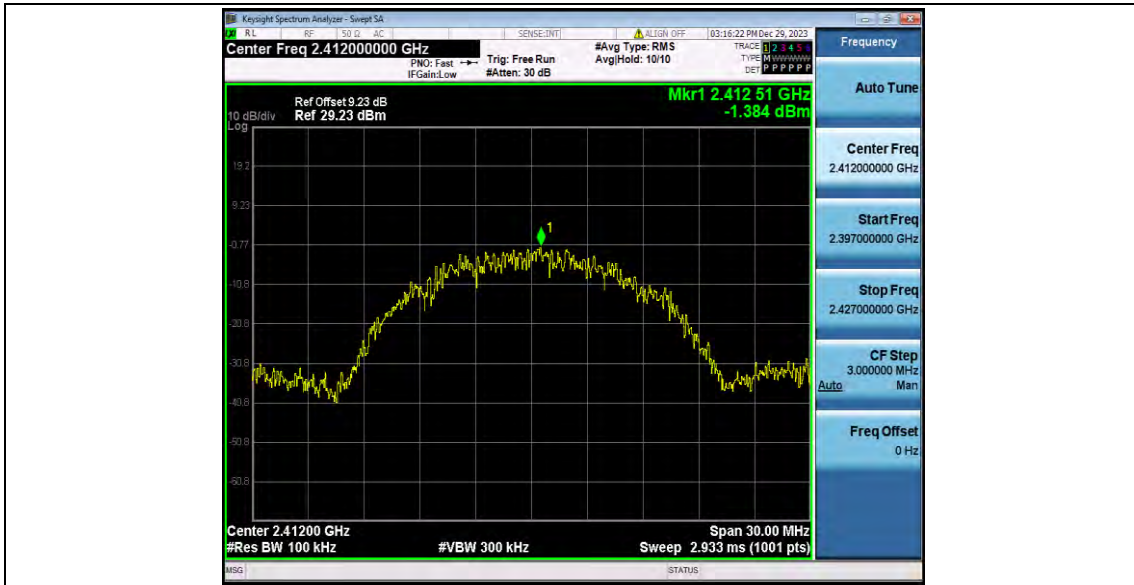
11N20SISO\_Ant1\_High\_2462

## Appendix B.6: Conducted Spurious Emission

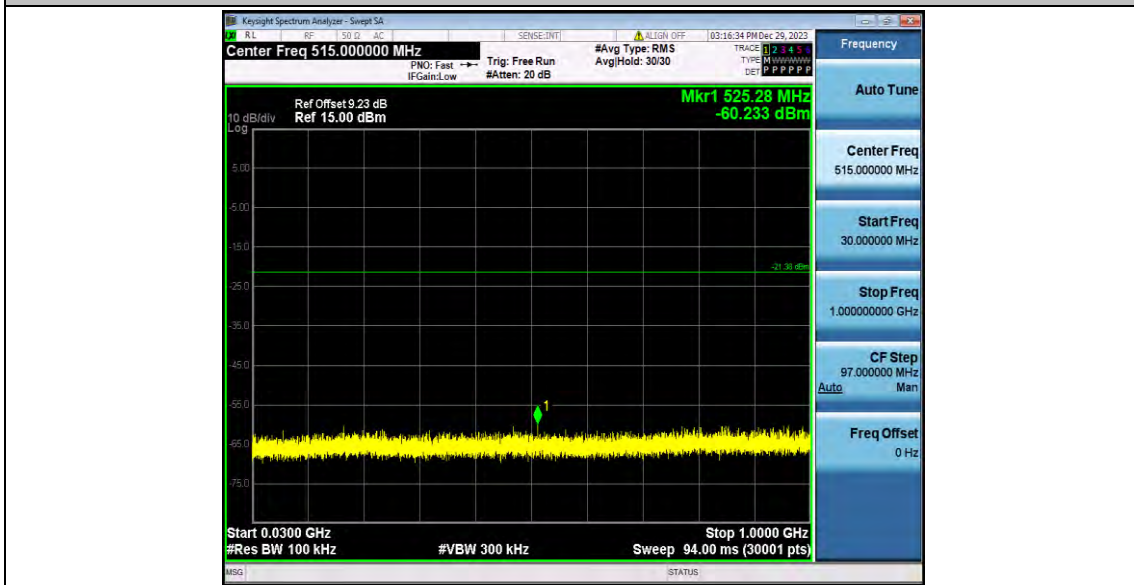
### Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-1.38	-1.38	---	PASS
			30~1000	-1.38	-60.23	$\leq -21.38$	PASS
			1000~26500	-1.38	-47.64	$\leq -21.38$	PASS
		2437	Reference	4.39	4.39	---	PASS
			30~1000	4.39	-60.05	$\leq -15.61$	PASS
			1000~26500	4.39	-39.98	$\leq -15.61$	PASS
		2462	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-59.85	$\leq -18.29$	PASS
			1000~26500	1.71	-47.96	$\leq -18.29$	PASS
11G	Ant1	2412	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-57.76	$\leq -21.99$	PASS
			1000~26500	-1.99	-47.77	$\leq -21.99$	PASS
		2437	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-60.17	$\leq -20.68$	PASS
			1000~26500	-0.68	-47.82	$\leq -20.68$	PASS
		2462	Reference	1.62	1.62	---	PASS
			30~1000	1.62	-60.01	$\leq -18.38$	PASS
			1000~26500	1.62	-47.55	$\leq -18.38$	PASS
11N20SISO	Ant1	2412	Reference	-3.09	-3.09	---	PASS
			30~1000	-3.09	-60.45	$\leq -23.09$	PASS
			1000~26500	-3.09	-47.53	$\leq -23.09$	PASS
		2437	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-60.64	$\leq -21.19$	PASS
			1000~26500	-1.19	-40.36	$\leq -21.19$	PASS
		2462	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-60.34	$\leq -19.05$	PASS
			1000~26500	0.95	-47.62	$\leq -19.05$	PASS

## Test Graphs

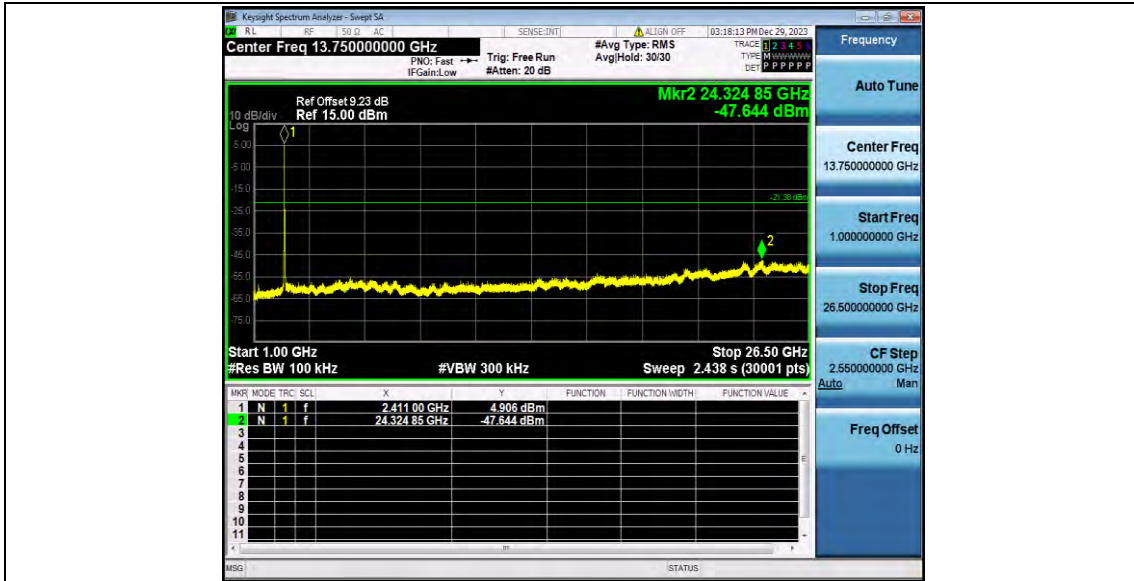


11B\_Ant1\_2412\_0~Reference



11B\_Ant1\_2412\_30~1000

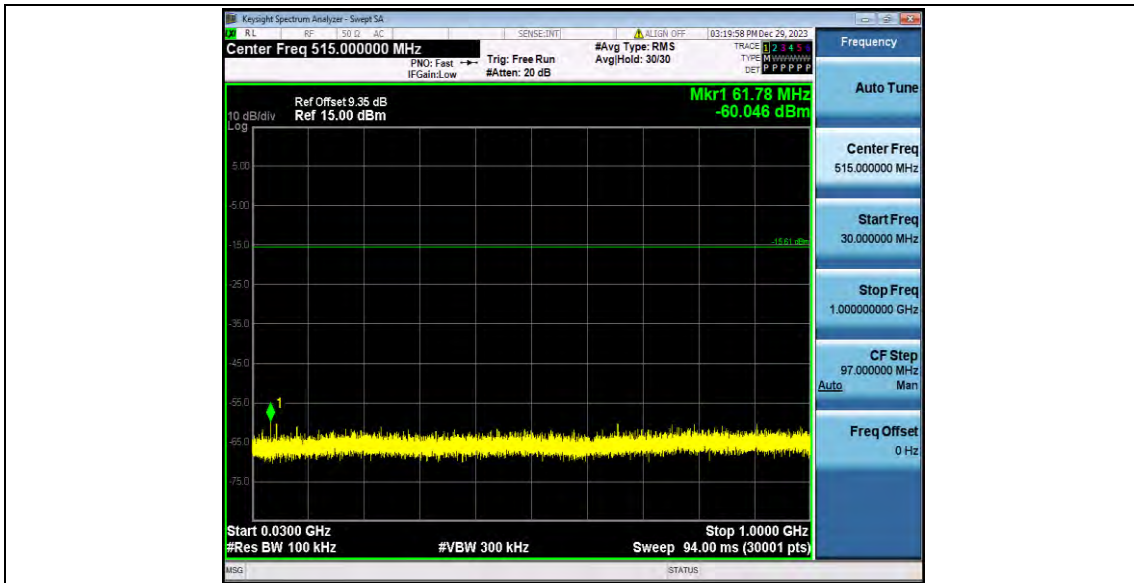




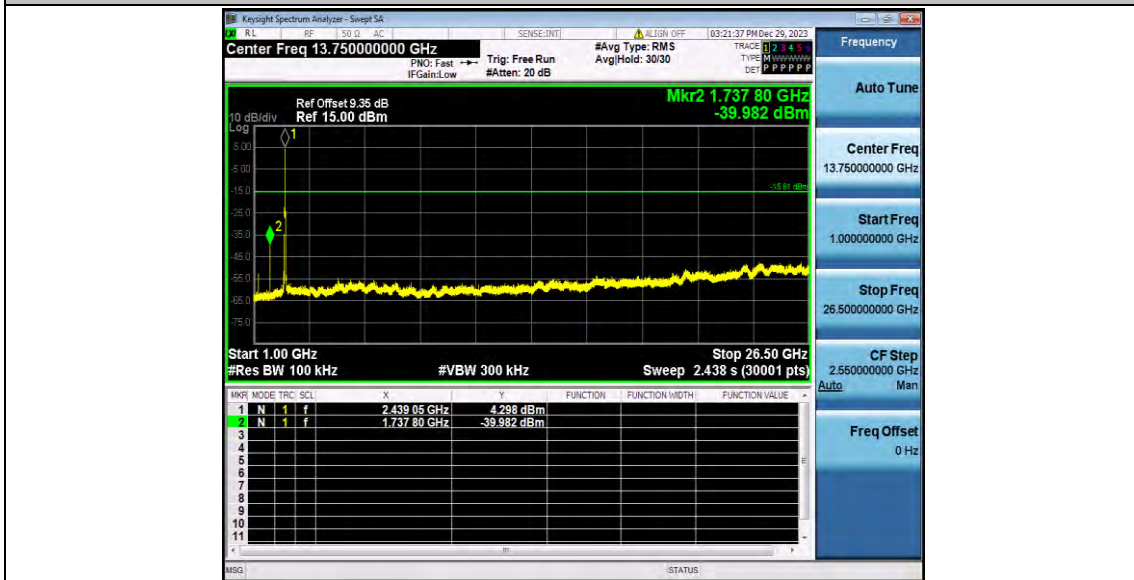
11B\_Ant1\_2412\_1000~26500



11B\_Ant1\_2437\_0~Reference



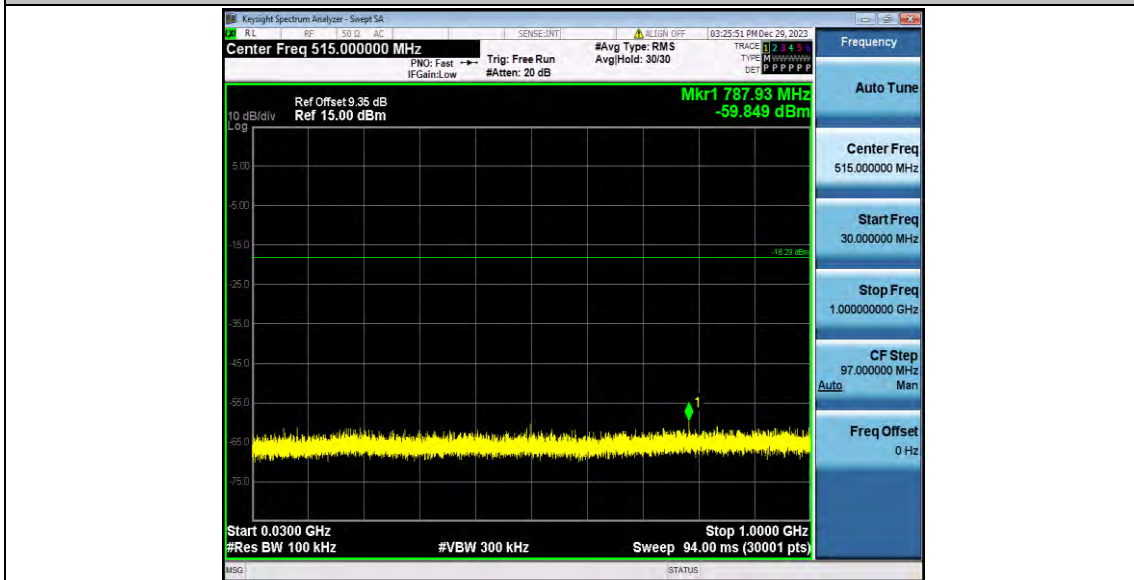
11B\_Ant1\_2437\_30~1000



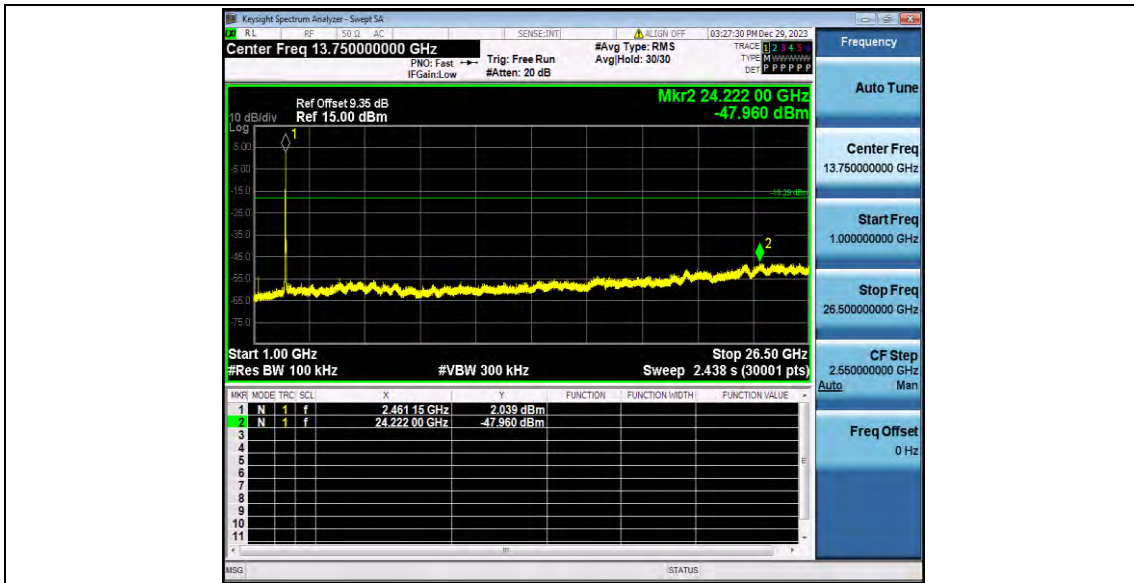
11B\_Ant1\_2437\_1000~26500



11B\_Ant1\_2462\_0~Reference



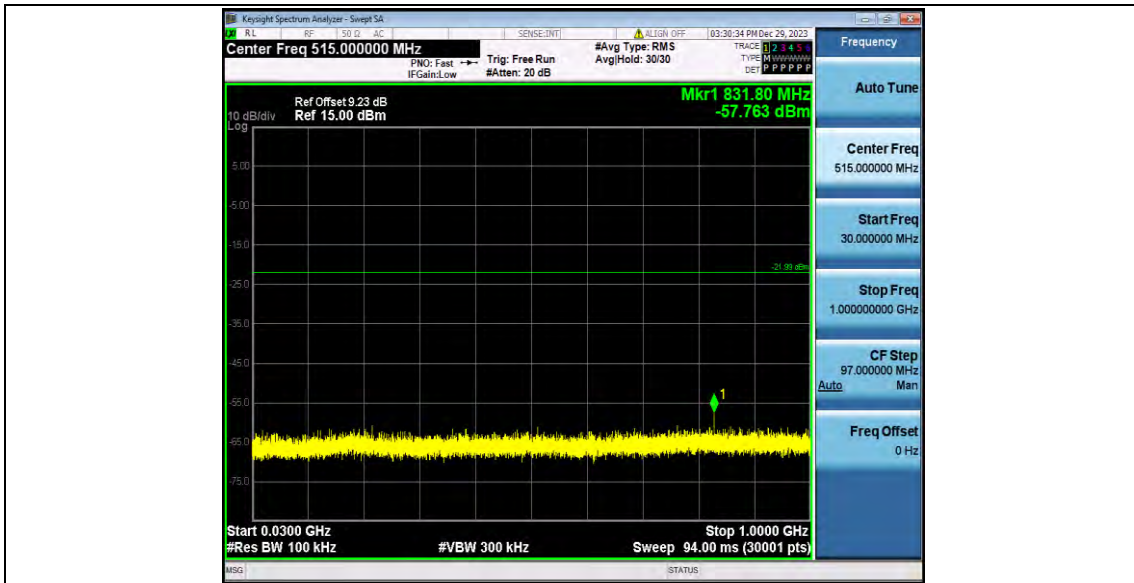
11B\_Ant1\_2462\_30~1000



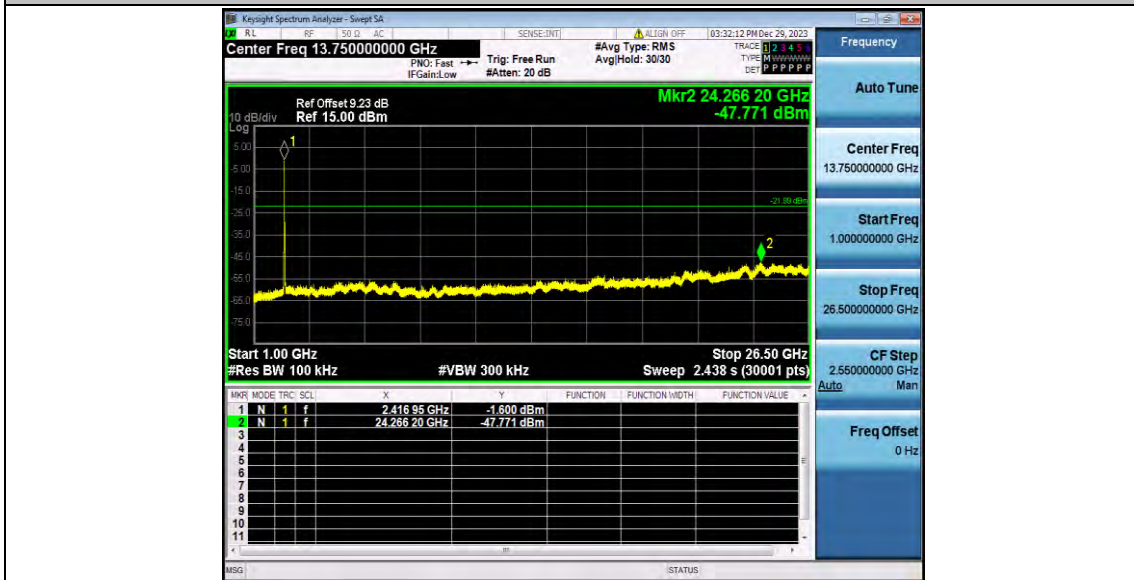
11B\_Ant1\_2462\_1000~26500



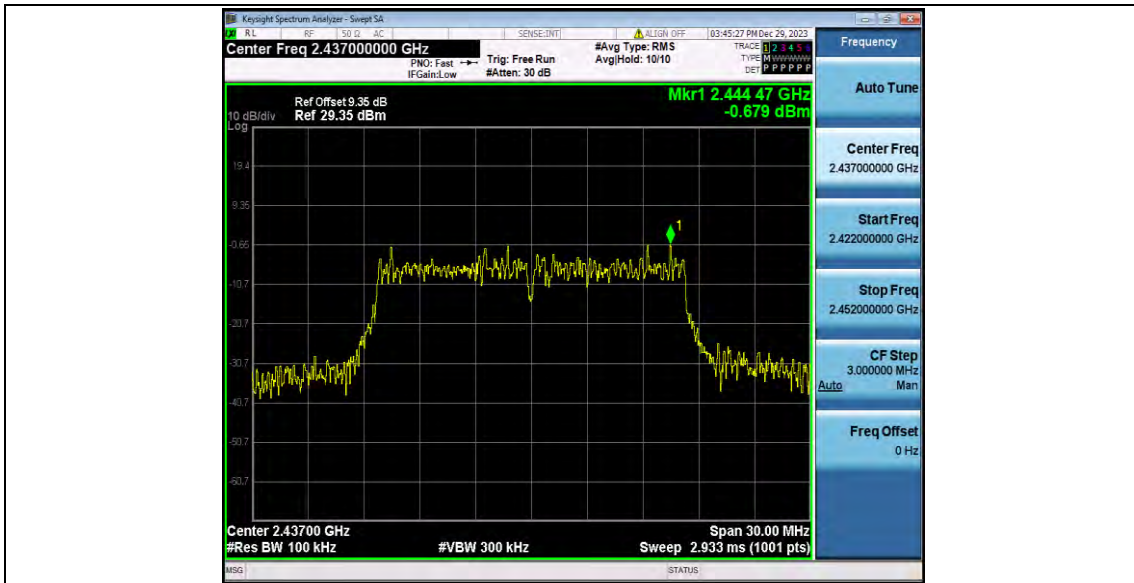
11G\_Ant1\_2412\_0~Reference



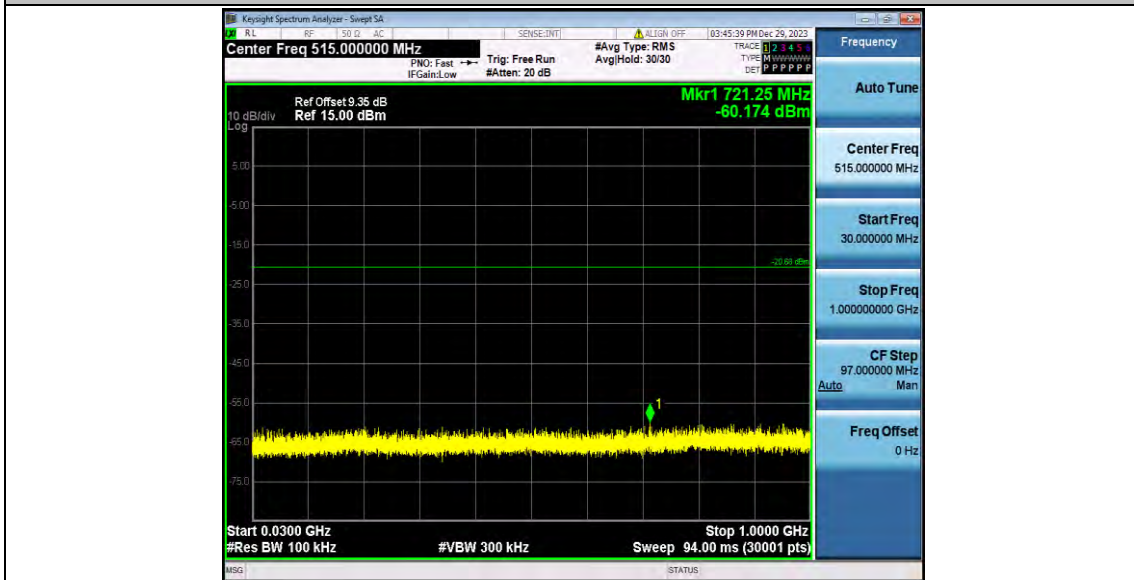
11G\_Ant1\_2412\_30~1000



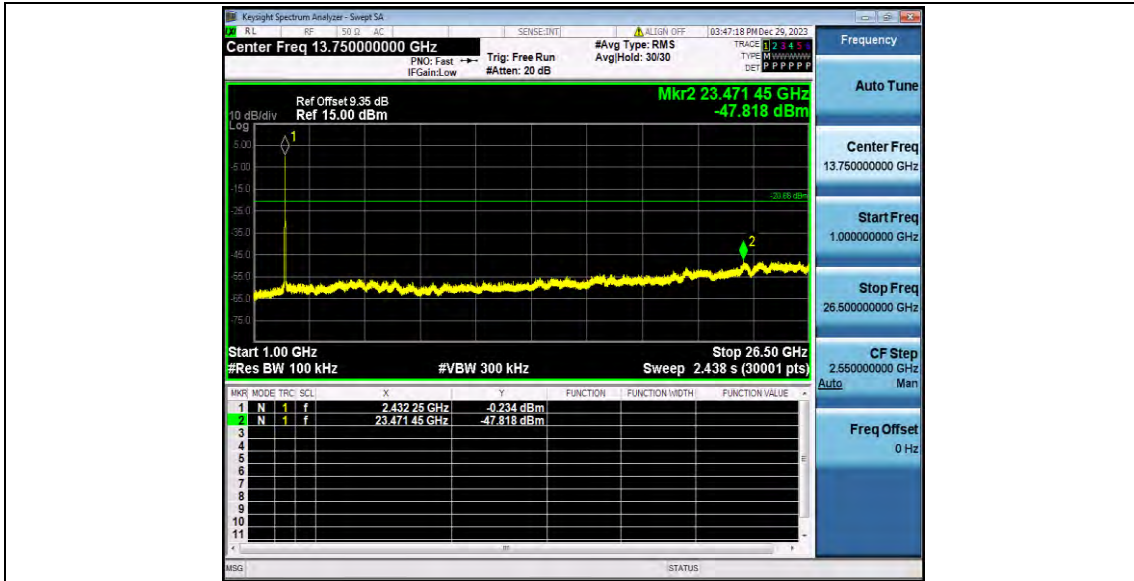
11G\_Ant1\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference



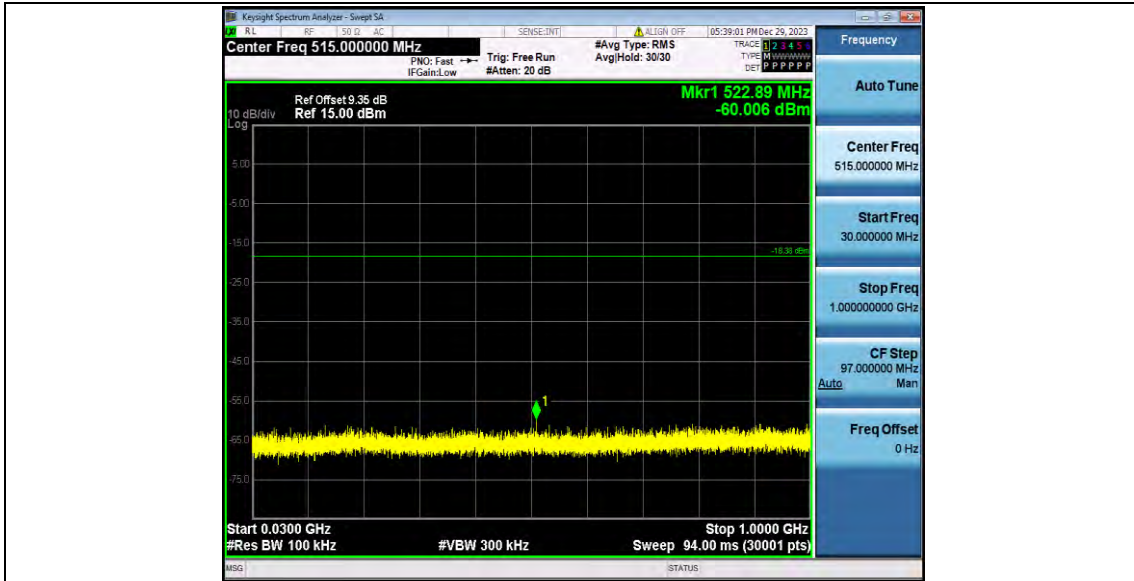
11G\_Ant1\_2437\_30~1000



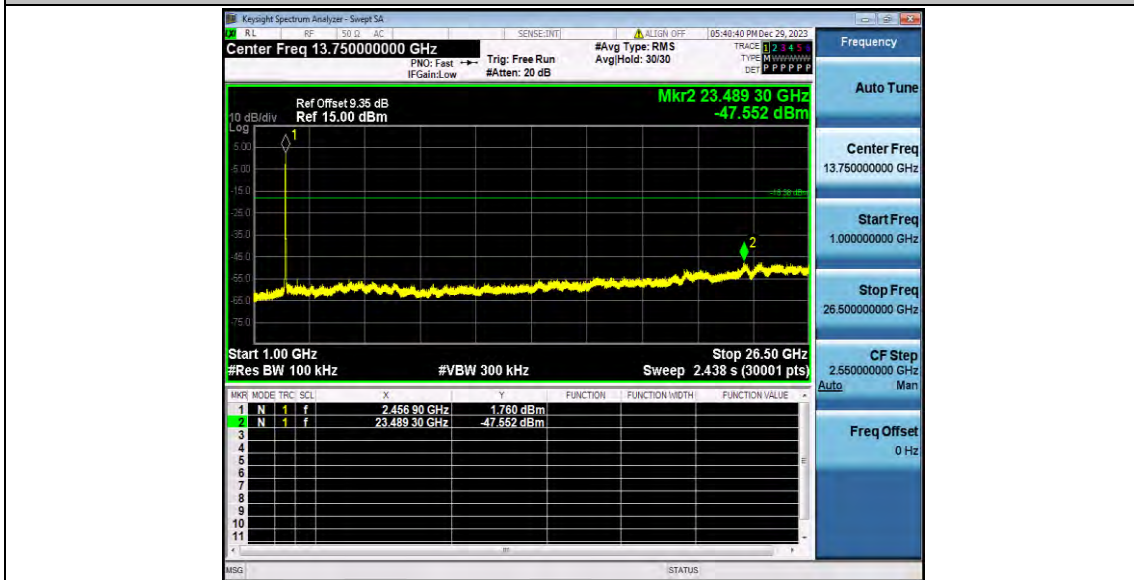
11G\_Ant1\_2437\_1000~26500



11G\_Ant1\_2462\_0~Reference

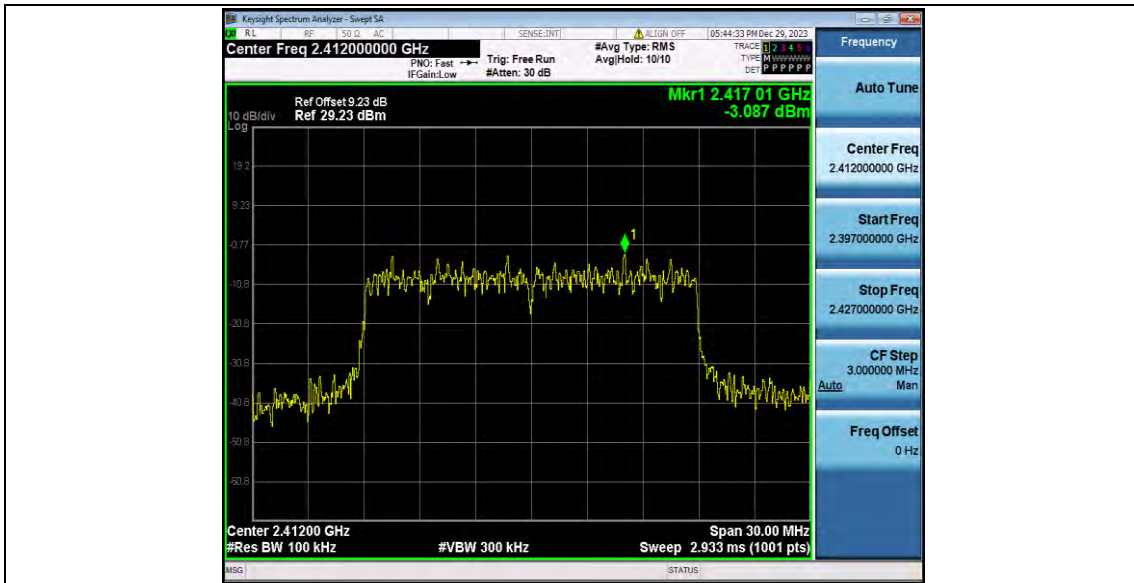


11G\_Ant1\_2462\_30~1000

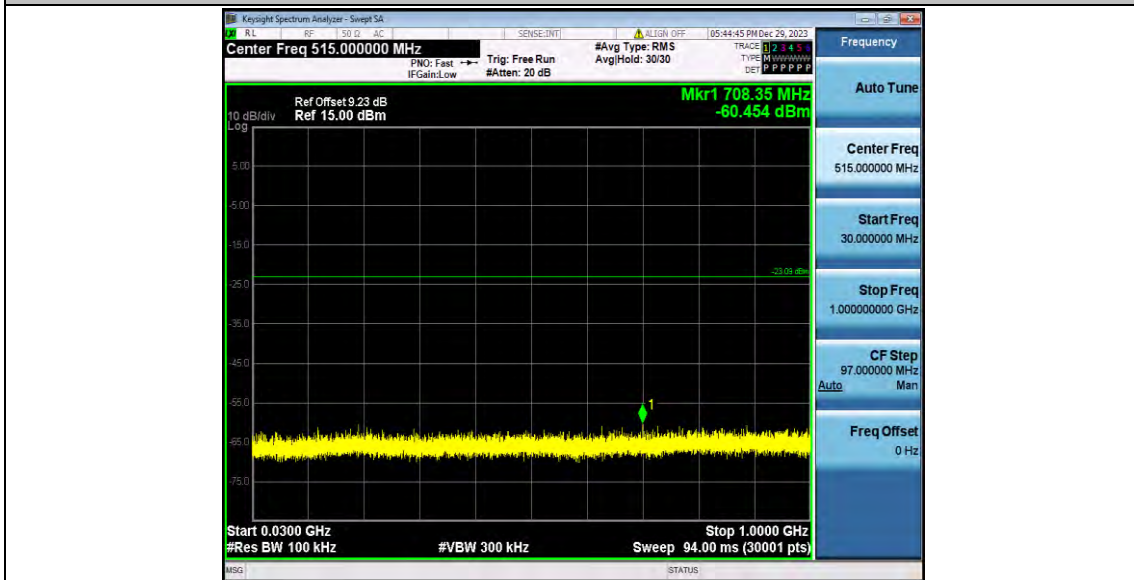


11G\_Ant1\_2462\_1000~26500

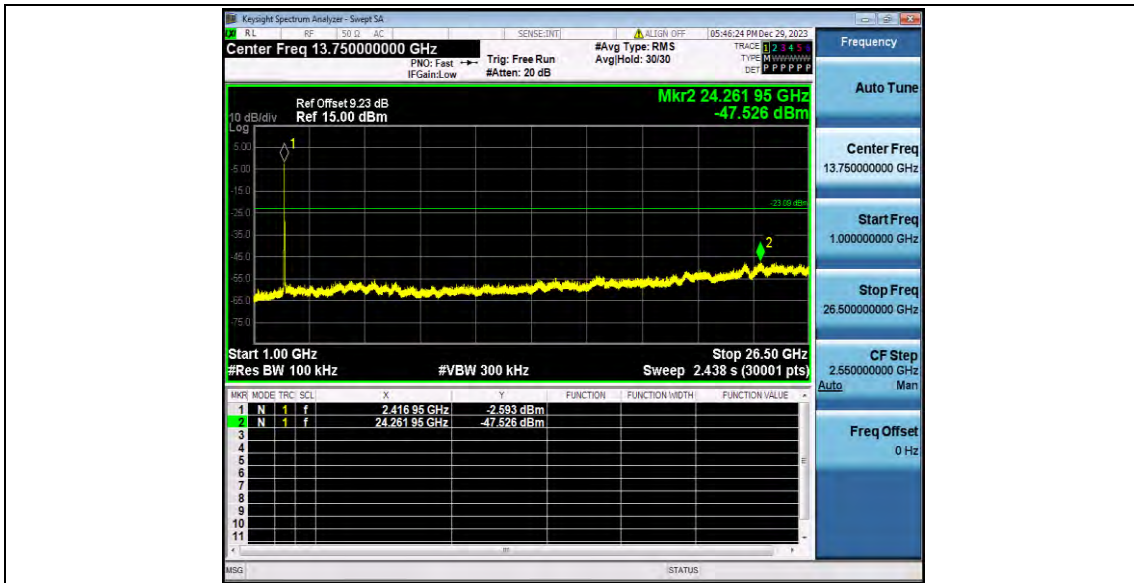




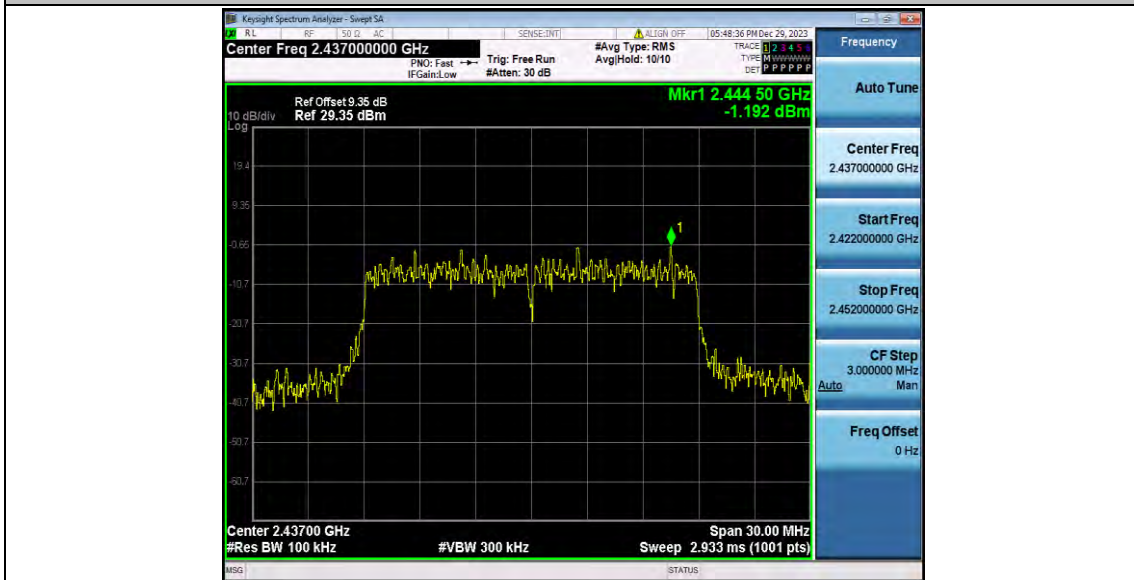
11N20SISO\_Ant1\_2412\_0~Reference



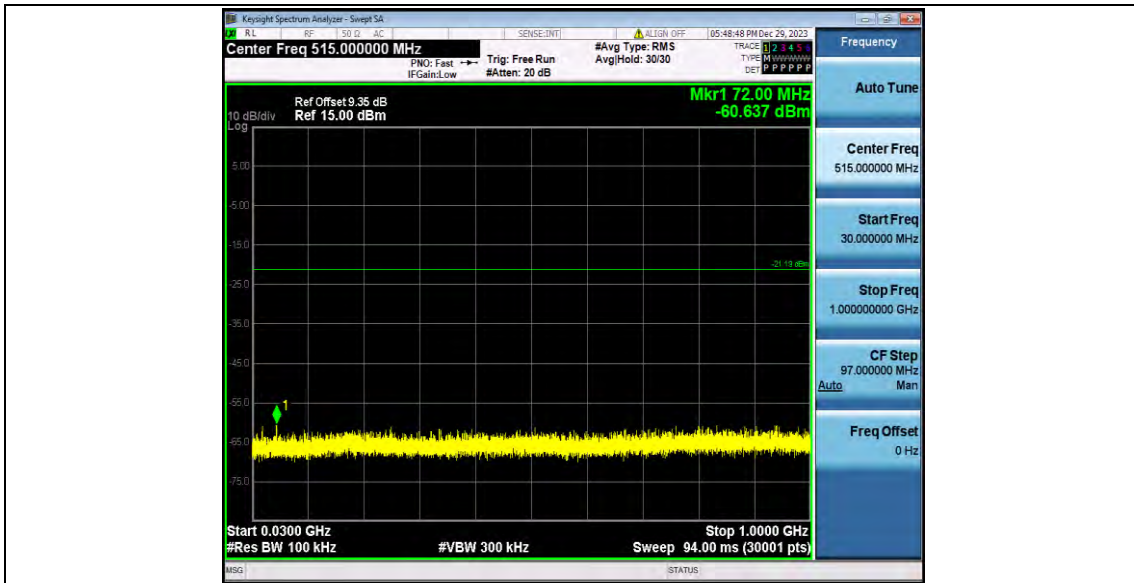
11N20SISO\_Ant1\_2412\_30~1000



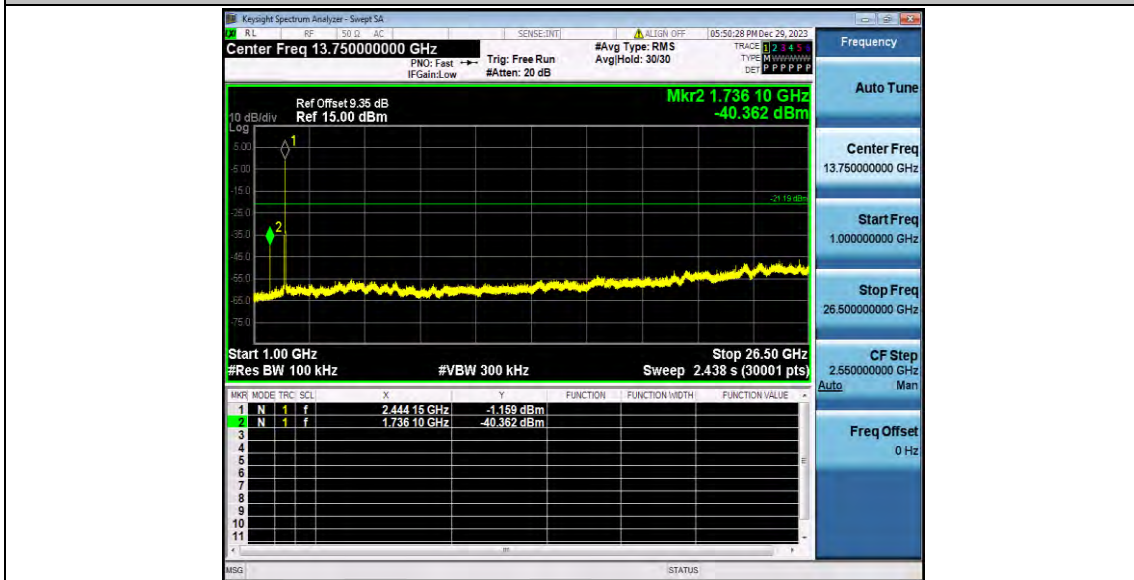
11N20SISO\_Ant1\_2412\_1000~26500



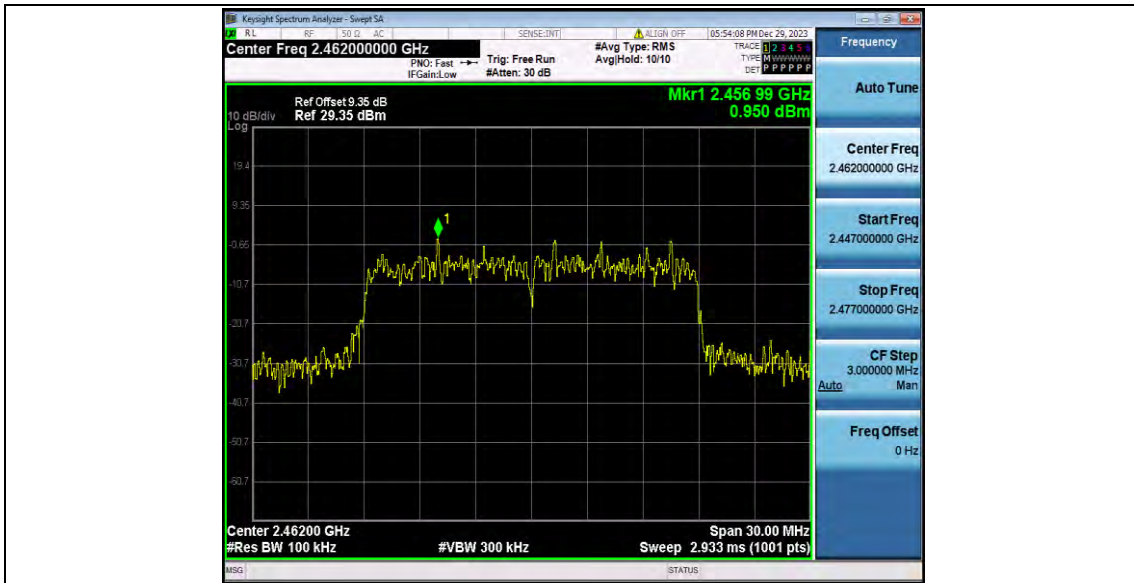
11N20SISO\_Ant1\_2437\_0~Reference



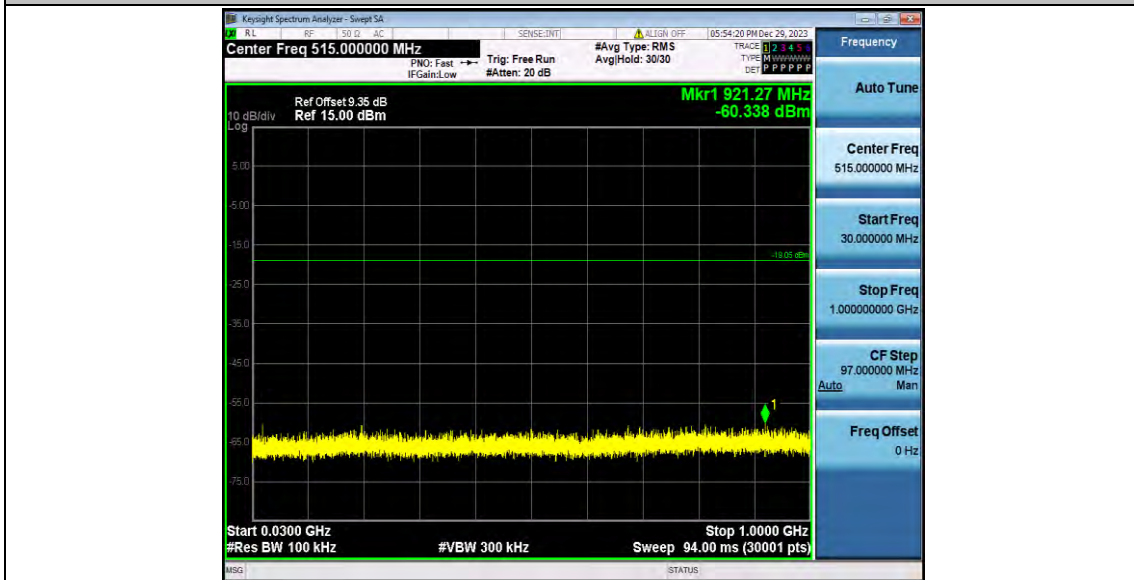
11N20SISO\_Ant1\_2437\_30~1000



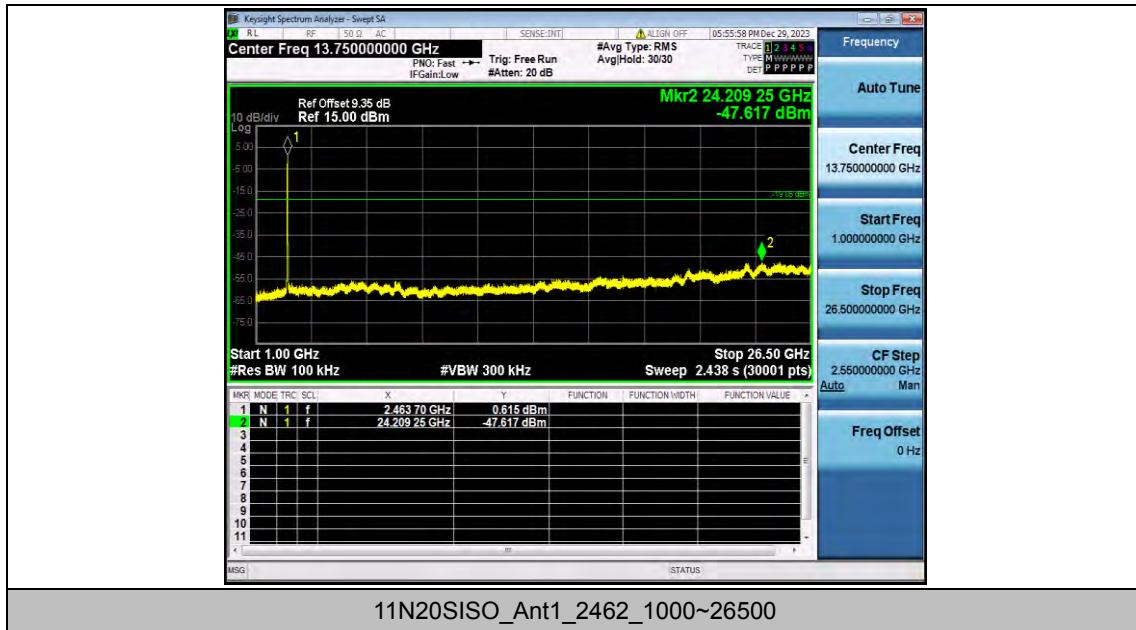
11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



11N20SISO\_Ant1\_2462\_30~1000



## Appendix B.7: Emissions in Restricted Bands

### Test Result

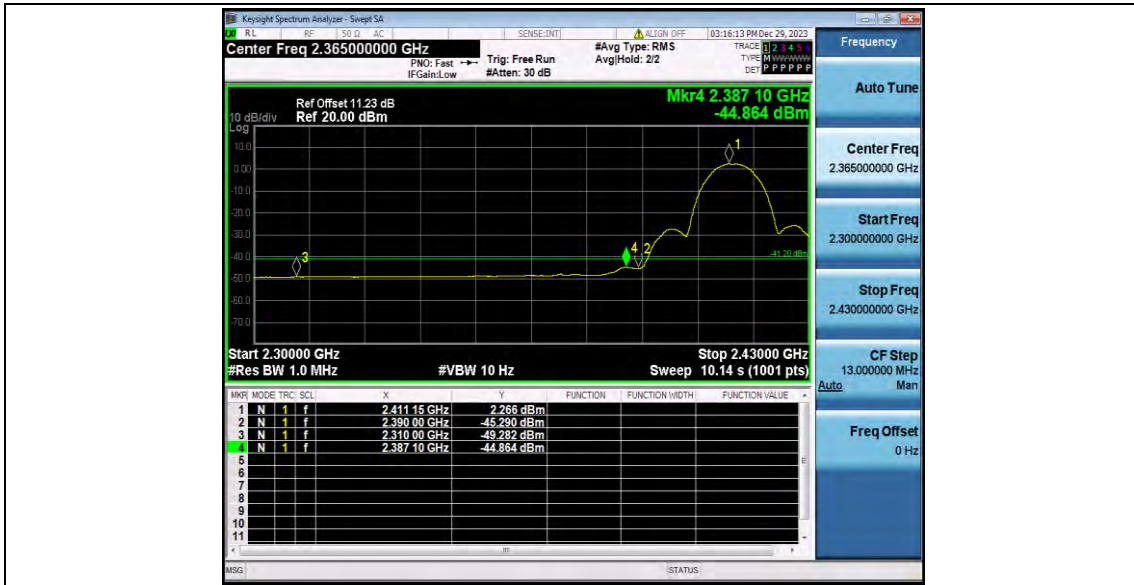
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.28	≤-41.20	45.92	≤54	PASS
				AV	2387.100	-44.86	≤-41.20	50.34	≤54	PASS
				AV	2390.000	-45.29	≤-41.20	49.91	≤54	PASS
				Peak	2310.000	-47.36	≤-21.20	47.84	≤74	PASS
				Peak	2388.140	-34.1	≤-21.20	61.10	≤74	PASS
				Peak	2390.000	-38.26	≤-21.20	56.94	≤74	PASS
		High	2462	AV	2483.500	-44.59	≤-41.20	50.61	≤54	PASS
				AV	2487.960	-42.28	≤-41.20	52.92	≤54	PASS
				AV	2500.000	-48.02	≤-41.20	47.18	≤54	PASS
				Peak	2483.500	-42	≤-21.20	53.20	≤74	PASS
				Peak	2487.960	-35.4	≤-21.20	59.80	≤74	PASS
				Peak	2500.000	-43.68	≤-21.20	51.52	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.4	≤-41.20	45.80	≤54	PASS
				AV	2389.960	-42.24	≤-41.20	52.96	≤54	PASS
				AV	2390.000	-42.24	≤-41.20	52.96	≤54	PASS
				Peak	2310.000	-41.63	≤-21.20	53.57	≤74	PASS
				Peak	2389.050	-35.14	≤-21.20	60.06	≤74	PASS
				Peak	2390.000	-45.59	≤-21.20	49.61	≤74	PASS
		High	2462	AV	2483.500	-43.3	≤-41.20	51.90	≤54	PASS
				AV	2483.560	-43.5	≤-41.20	51.70	≤54	PASS
				AV	2500.000	-48.68	≤-41.20	46.52	≤54	PASS
				Peak	2483.500	-46.38	≤-21.20	48.82	≤74	PASS
				Peak	2487.740	-38.9	≤-21.20	56.30	≤74	PASS
				Peak	2500.000	-48.78	≤-21.20	46.42	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.39	≤-41.20	45.81	≤54	PASS
				AV	2389.960	-42.85	≤-41.20	52.35	≤54	PASS
				AV	2390.000	-42.85	≤-41.20	52.35	≤54	PASS
				Peak	2310.000	-45.07	≤-21.20	50.13	≤74	PASS
				Peak	2389.570	-35.72	≤-21.20	59.48	≤74	PASS
				Peak	2390.000	-43.06	≤-21.20	52.14	≤74	PASS
		High	2462	AV	2483.500	-43.42	≤-41.20	51.78	≤54	PASS
				AV	2483.560	-43.57	≤-41.20	51.63	≤54	PASS
				AV	2500.000	-48.69	≤-41.20	46.51	≤54	PASS
				Peak	2483.500	-37.47	≤-21.20	57.73	≤74	PASS
				Peak	2483.890	-38.51	≤-21.20	56.69	≤74	PASS

				Peak	2500.000	-46.75	$\leq -21.20$	48.45	$\leq 74$	PASS
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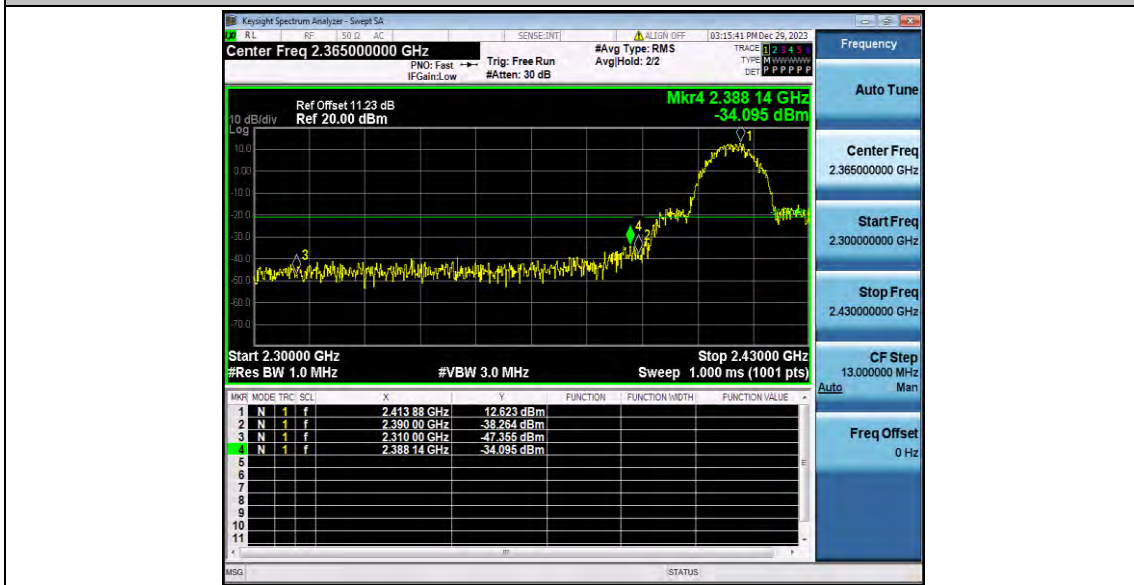
Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

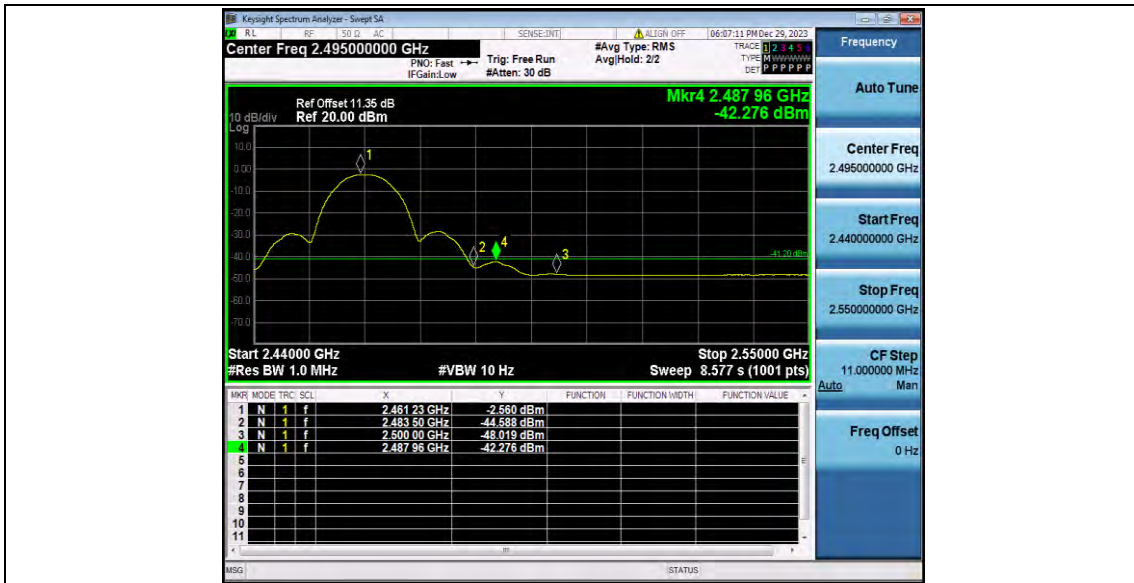


11B\_Ant1\_Low\_2412\_AV

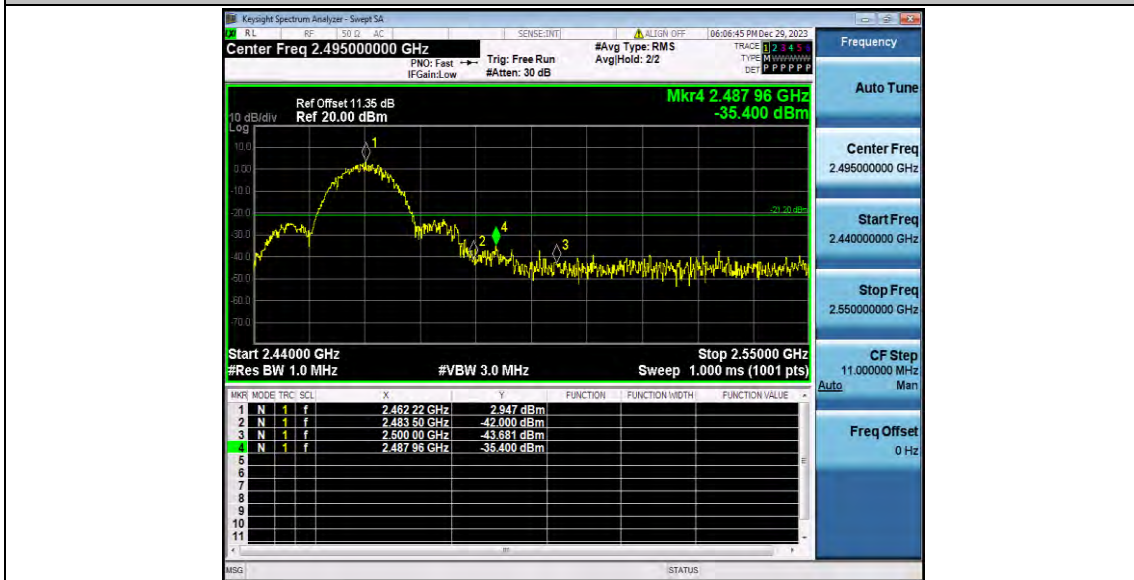


11B\_Ant1\_Low\_2412\_Peak





11B\_Ant1\_High\_2462\_AV



11B\_Ant1\_High\_2462\_Peak



11G\_Ant1\_Low\_2412\_AV



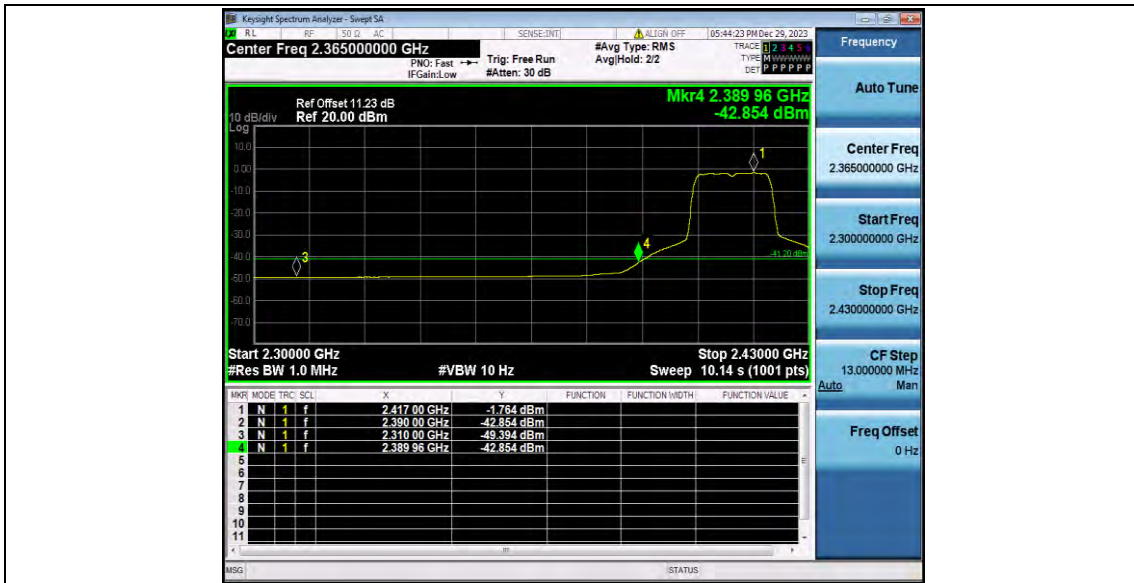
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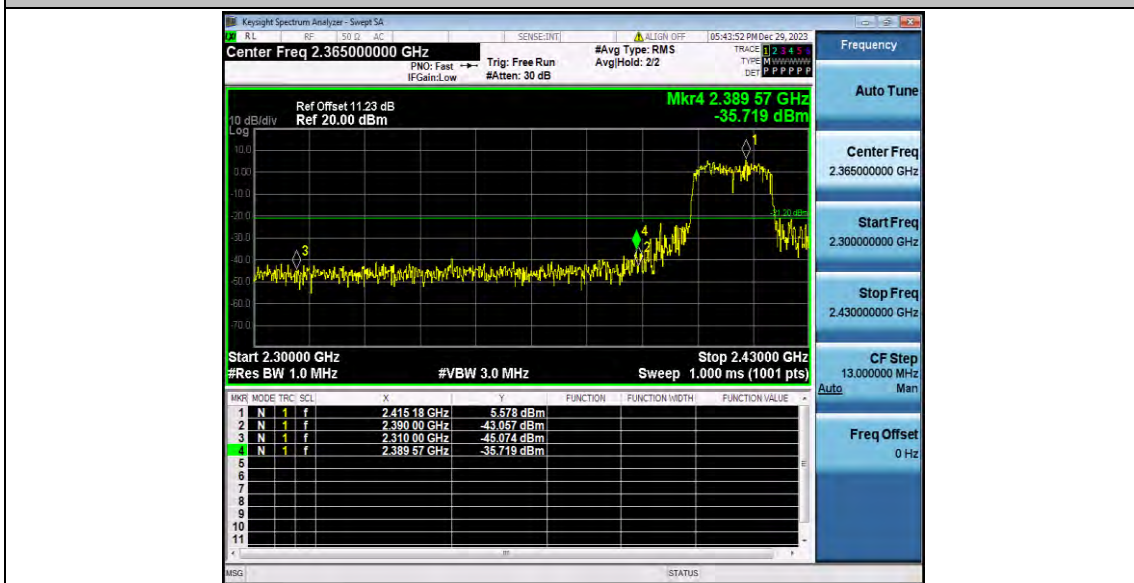
11G\_Ant1\_High\_2462\_AV



11G\_Ant1\_High\_2462\_Peak



11N20SISO\_Ant1\_Low\_2412\_AV



11N20SISO\_Ant1\_Low\_2412\_Peak



11N20SISO\_Ant1\_High\_2462\_AV



11N20SISO\_Ant1\_High\_2462\_Peak