

<b>Case No. :</b> <u>GTS20230822007-1-3</u>
<b>Ambient Condition:</b> <u>24 °C, 49 %RH, Atmos100.1Kpa,</u>
<b>Test Date:</b> <u>2023.9.13</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## Appendix C.1: DTS Bandwidth

### Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.120	2408.440	2416.560	0.5	PASS
		2437	8.600	2432.440	2441.040	0.5	PASS
		2462	8.600	2457.960	2466.560	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.720	2428.840	2444.560	0.5	PASS
		2462	15.720	2454.440	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.200	2404.440	2420.640	0.5	PASS
		2437	16.360	2428.400	2444.760	0.5	PASS
		2462	16.200	2454.440	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.040	2404.480	2439.520	0.5	PASS
		2437	33.840	2419.400	2453.240	0.5	PASS
		2452	36.240	2434.000	2470.240	0.5	PASS

## Test Graphs



11B\_Ant1\_2412



11B\_Ant1\_2437



11B\_Ant1\_2462



11G\_Ant1\_2412



11G\_Ant1\_2437



11G\_Ant1\_2462



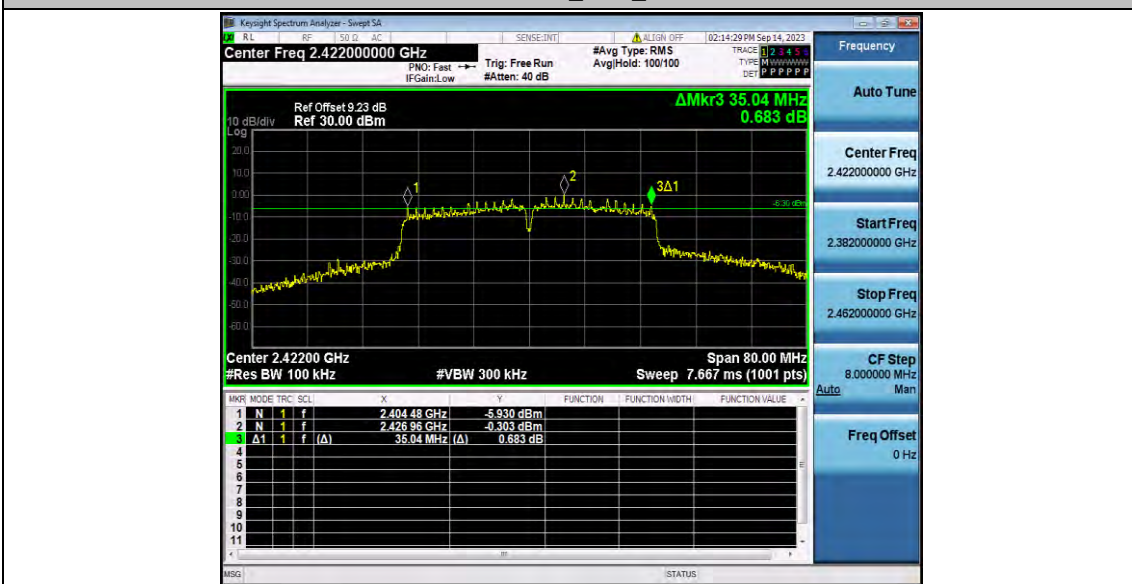
11N20SISO\_Ant1\_2412



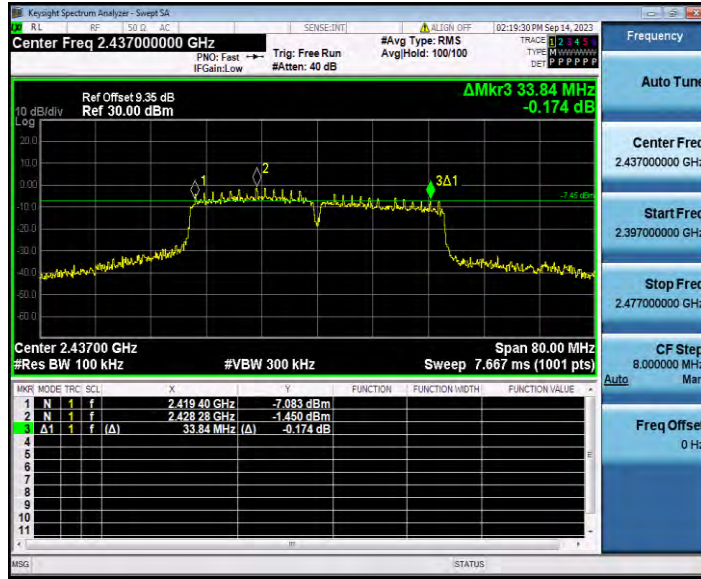
11N20SISO\_Ant1\_2437



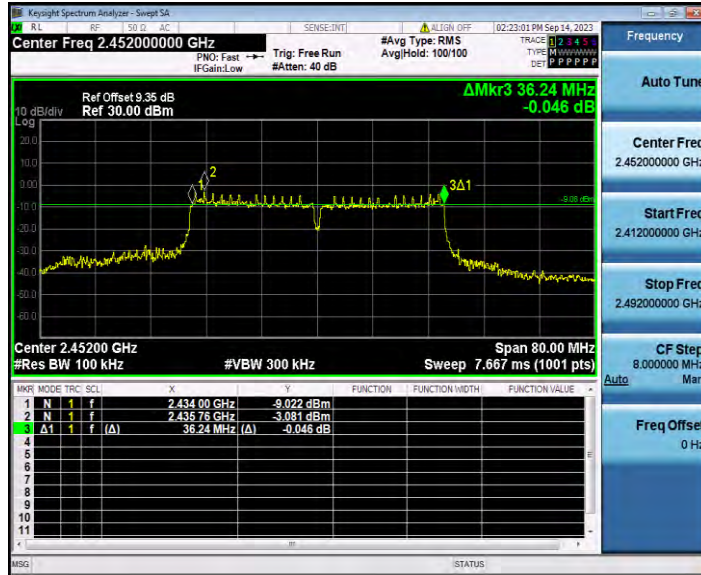
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

## Appendix C.2: Occupied Channel Bandwidth

### Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.629	2406.467	2418.096	---	---
		2437	11.797	2430.867	2442.664	---	---
		2462	11.813	2456.291	2468.104	---	---
11G	Ant1	2412	20.408	2403.770	2424.178	---	---
		2437	16.777	2428.422	2445.199	---	---
		2462	16.914	2453.725	2470.639	---	---
11N20SISO	Ant1	2412	20.783	2403.266	2424.049	---	---
		2437	17.760	2427.959	2445.719	---	---
		2462	17.819	2453.249	2471.068	---	---
11N40SISO	Ant1	2422	36.883	2404.057	2440.940	---	---
		2437	36.238	2418.709	2454.947	---	---
		2452	37.076	2433.288	2470.364	---	---

## Test Graphs



11B\_Ant1\_2412



11B\_Ant1\_2437

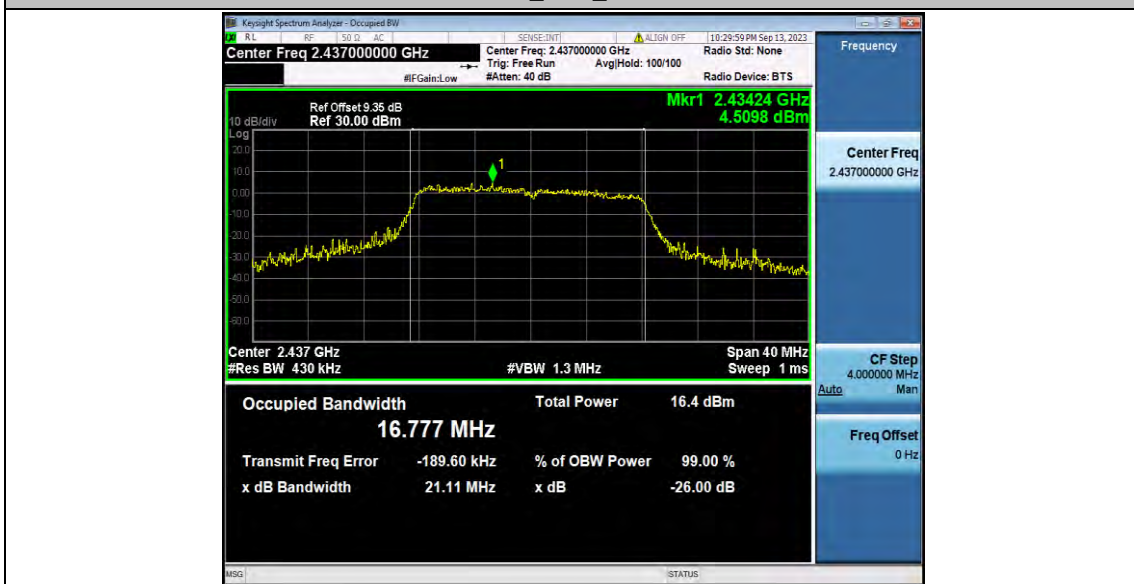




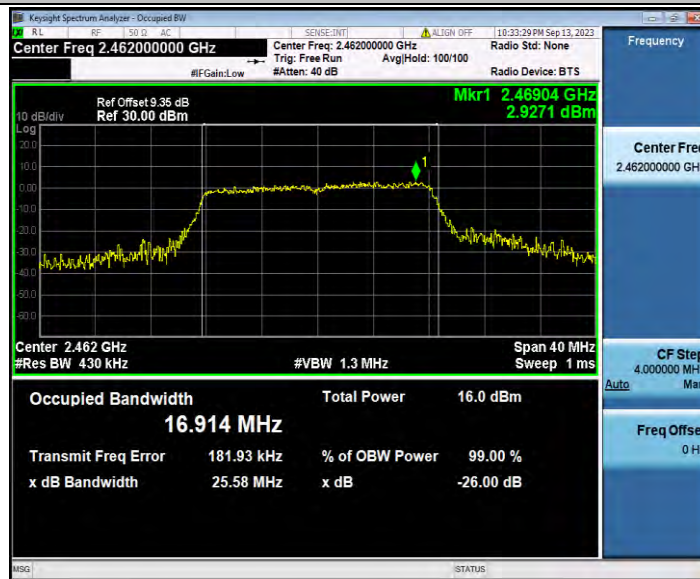
11B\_Ant1\_2462



11G\_Ant1\_2412



11G\_Ant1\_2437



11G\_Ant1\_2462



11N20SISO\_Ant1\_2412



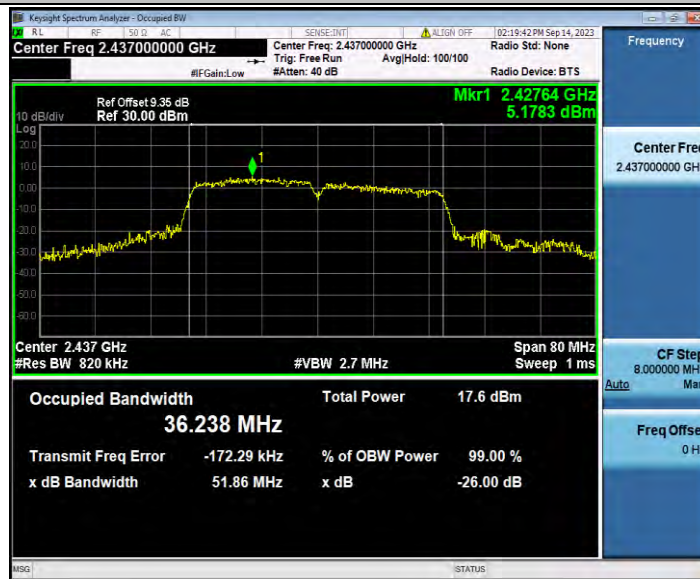
11N20SISO\_Ant1\_2437



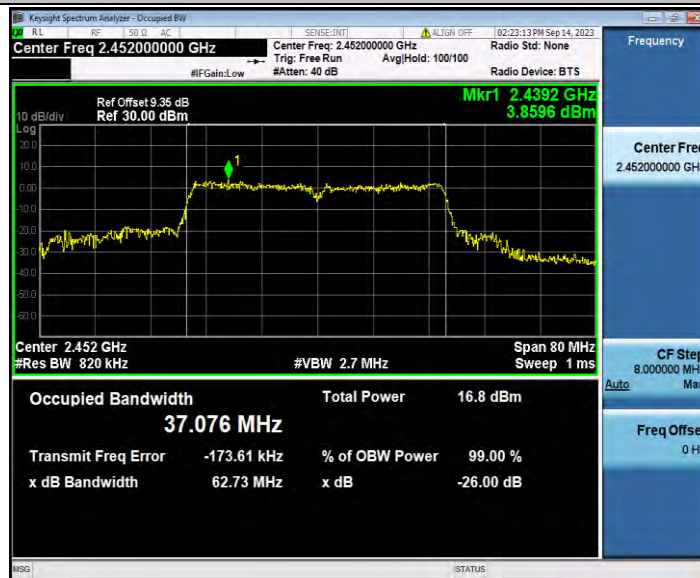
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

## Appendix C.3: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	14.21	≤30.00	PASS
		2437	14.09	≤30.00	PASS
		2462	14.27	≤30.00	PASS
11G	Ant1	2412	18.02	≤30.00	PASS
		2437	17.49	≤30.00	PASS
		2462	17.15	≤30.00	PASS
11N20SISO	Ant1	2412	18.15	≤30.00	PASS
		2437	17.87	≤30.00	PASS
		2462	17.38	≤30.00	PASS
11N40SISO	Ant1	2422	18.82	≤30.00	PASS
		2437	17.76	≤30.00	PASS
		2452	16.93	≤30.00	PASS

## Appendix C.4: Maximum power spectral density

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.55	≤8.00	PASS
		2437	-10.65	≤8.00	PASS
		2462	-11.78	≤8.00	PASS
11G	Ant1	2412	-14.77	≤8.00	PASS
		2437	-16	≤8.00	PASS
		2462	-15.9	≤8.00	PASS
11N20SISO	Ant1	2412	-14.32	≤8.00	PASS
		2437	-14.93	≤8.00	PASS
		2462	-14.53	≤8.00	PASS
11N40SISO	Ant1	2422	-15.88	≤8.00	PASS
		2437	-16.33	≤8.00	PASS
		2452	-18.48	≤8.00	PASS

## Test Graphs



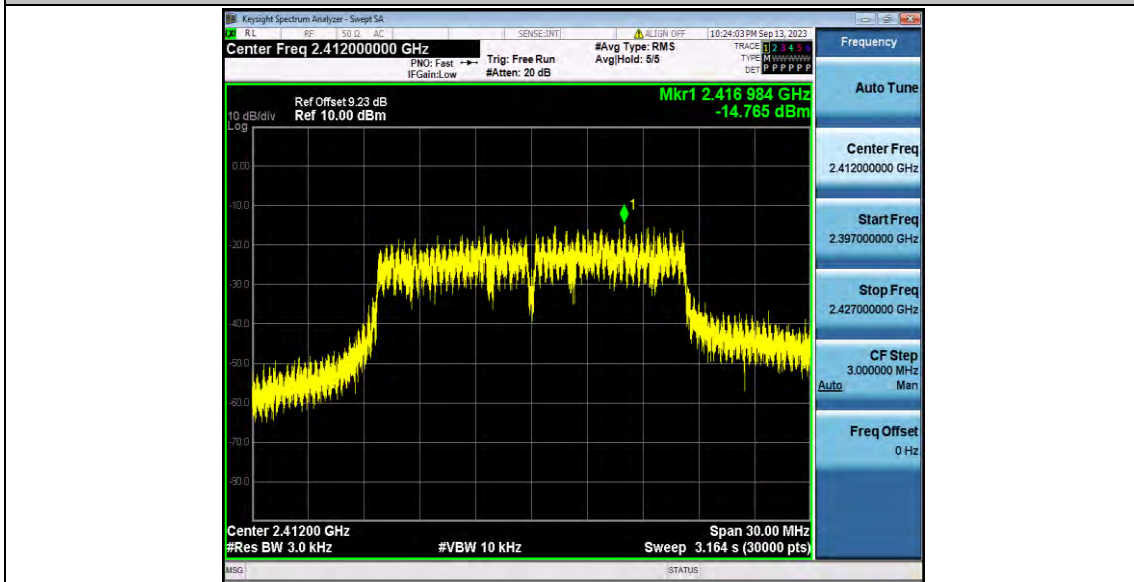
11B\_Ant1\_2412



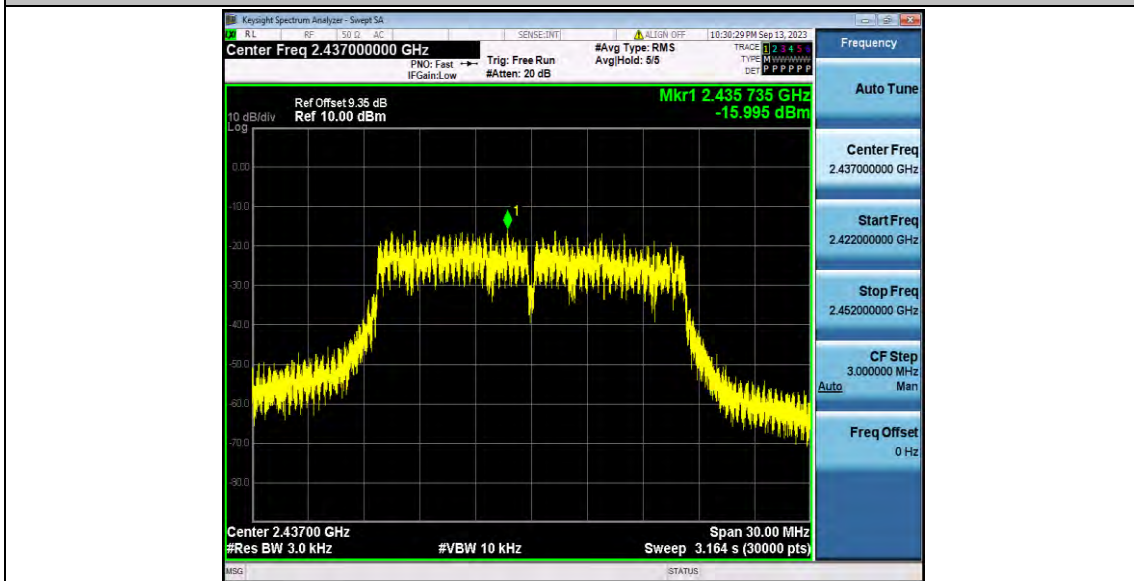
11B\_Ant1\_2437



11B\_Ant1\_2462

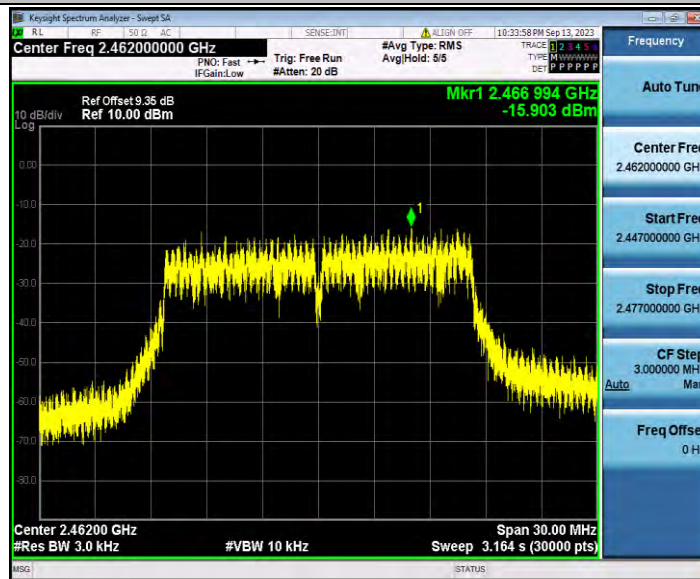


11G\_Ant1\_2412

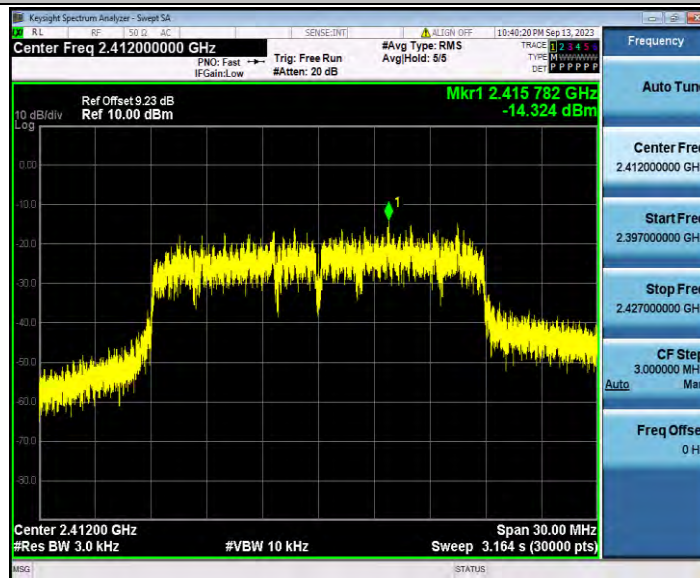




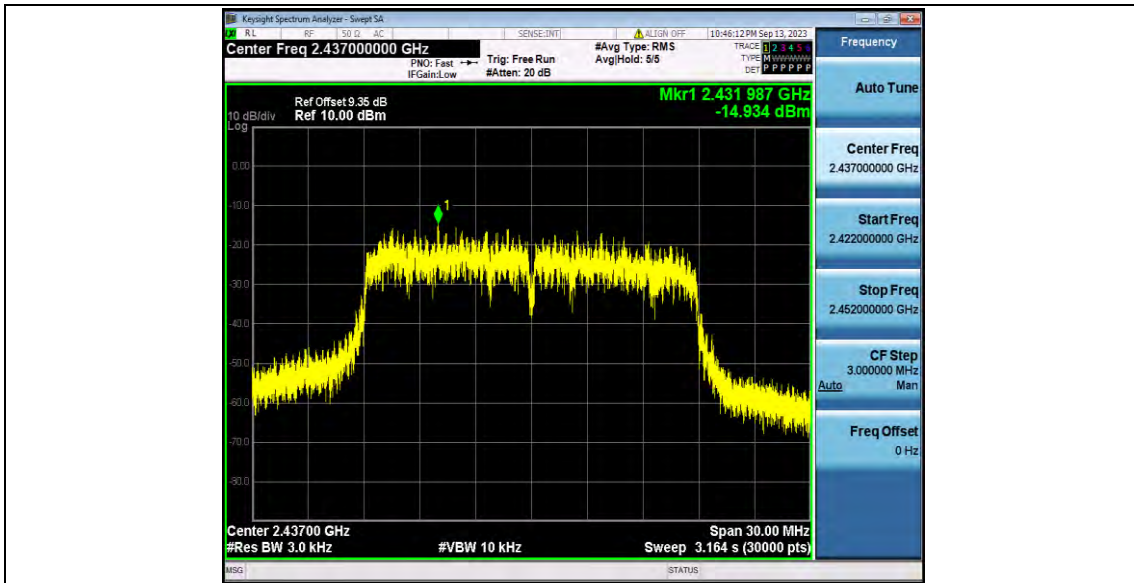
11G\_Ant1\_2437



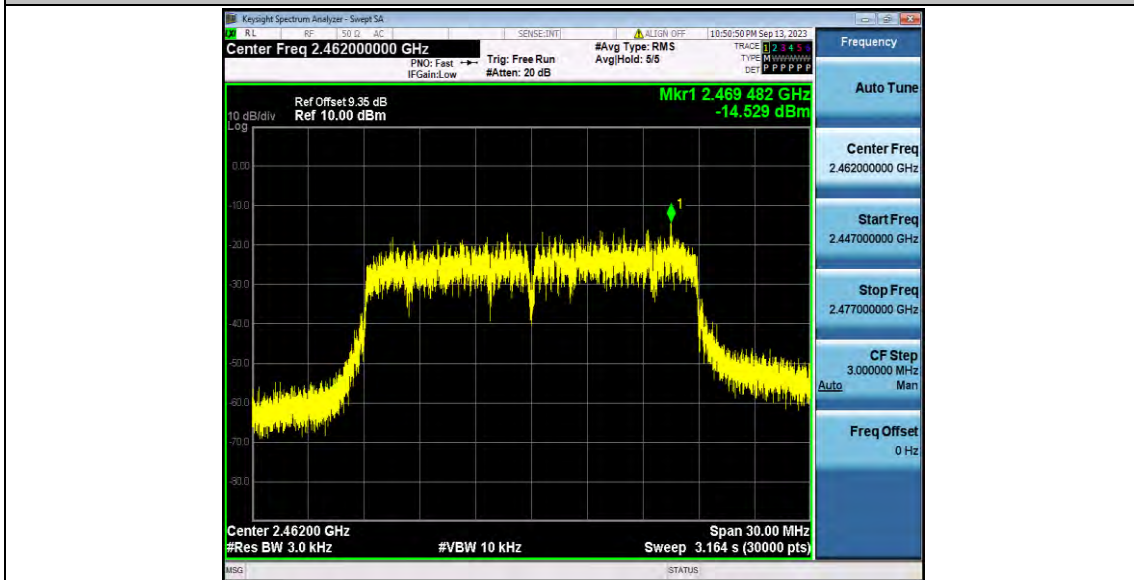
11G\_Ant1\_2462



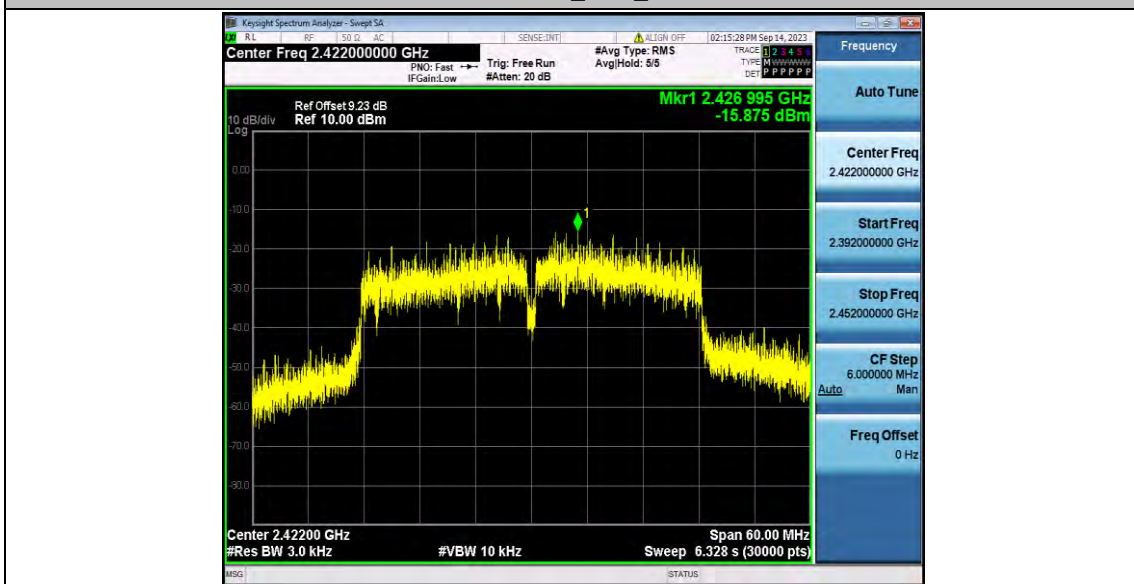
11N20SISO\_Ant1\_2412



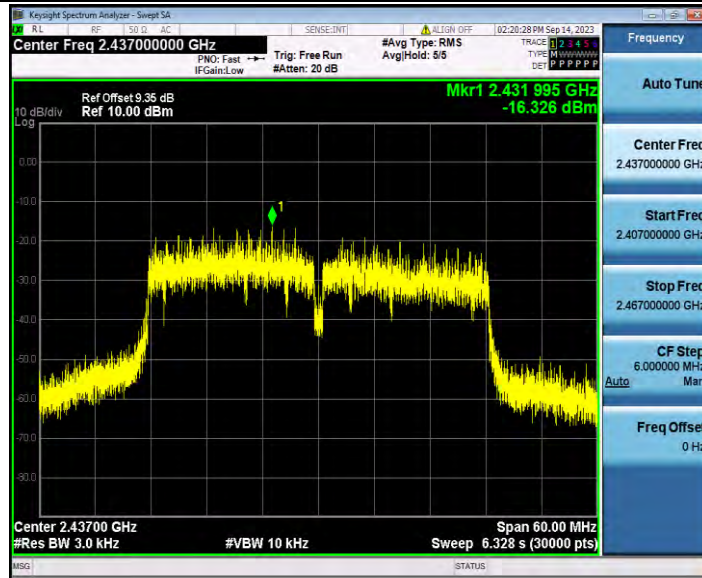
11N20SISO\_Ant1\_2437



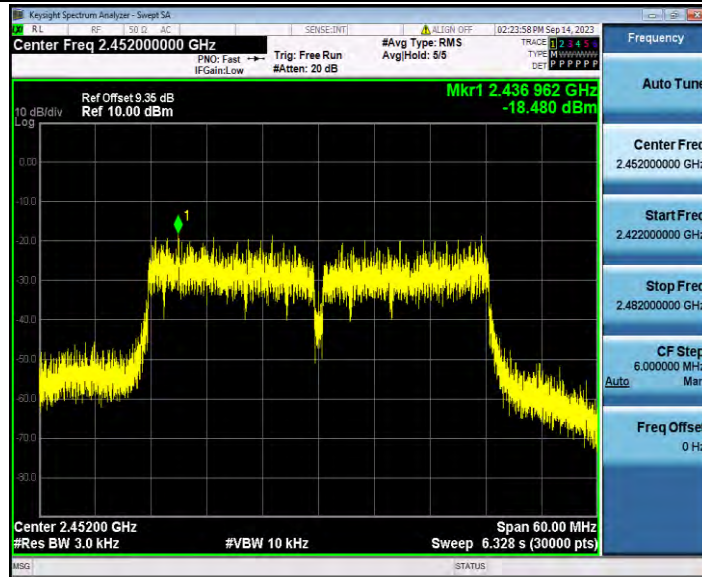
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



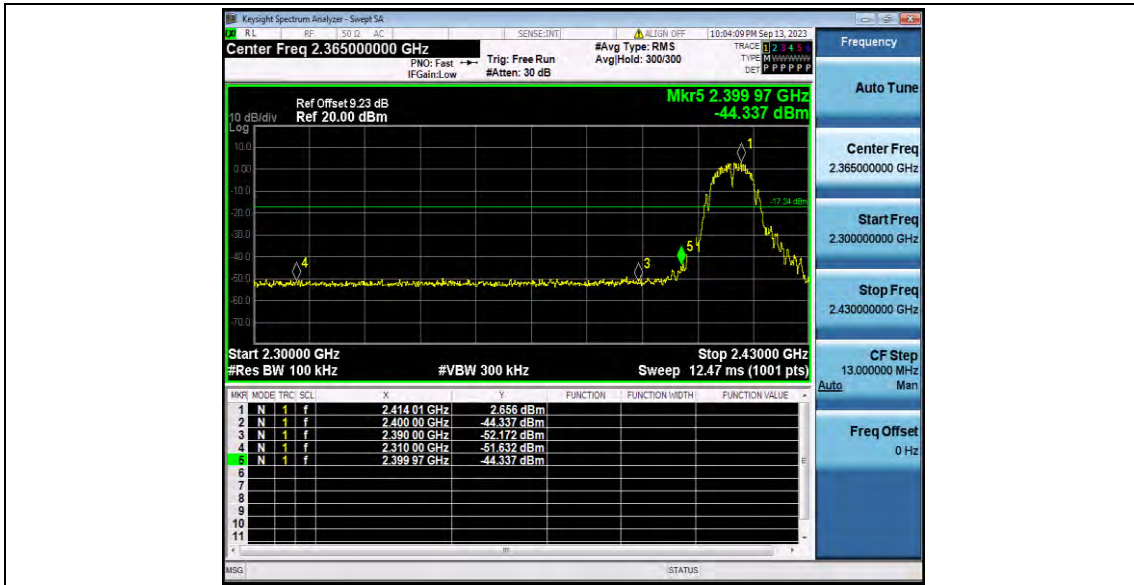
11N40SISO\_Ant1\_2452

## Appendix C.5: Band edge measurements

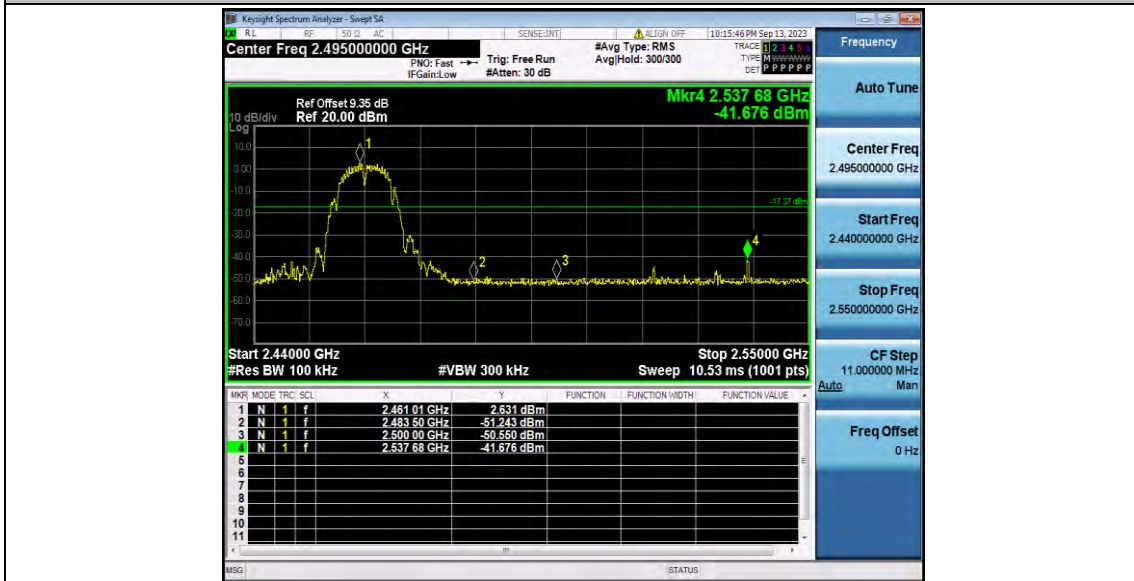
### Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.66	-44.34	$\leq -17.34$	PASS
		High	2462	2.63	-41.68	$\leq -17.37$	PASS
11G	Ant1	Low	2412	0.32	-29.26	$\leq -19.68$	PASS
		High	2462	-0.21	-30.49	$\leq -20.21$	PASS
11N20SISO	Ant1	Low	2412	0.31	-29.81	$\leq -19.69$	PASS
		High	2462	0.01	-31.33	$\leq -19.99$	PASS
11N40SISO	Ant1	Low	2422	-0.35	-29.99	$\leq -20.35$	PASS
		High	2452	-3.60	-39.28	$\leq -23.6$	PASS

## Test Graphs



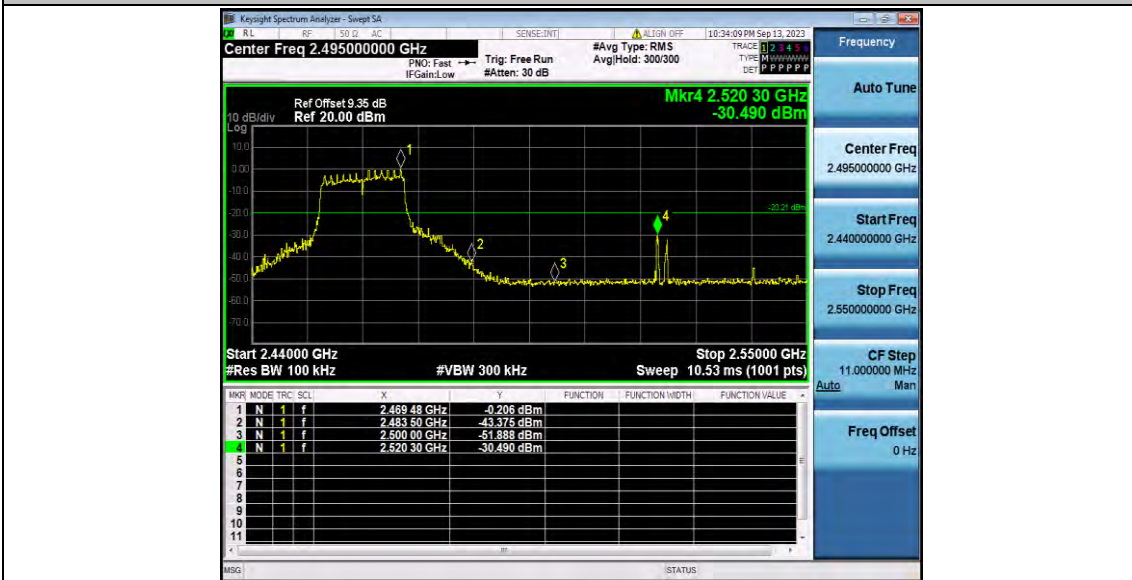
11B\_Ant1\_Low\_2412



11B\_Ant1\_High\_2462



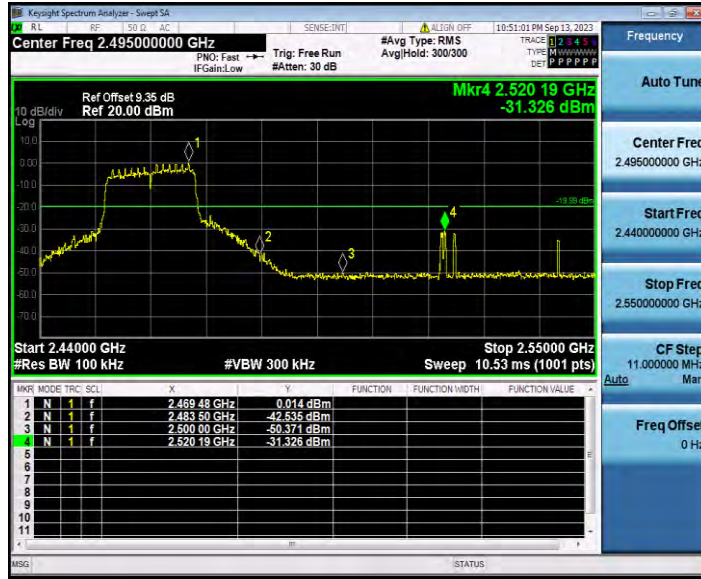
11G\_Ant1\_Low\_2412



11G\_Ant1\_High\_2462



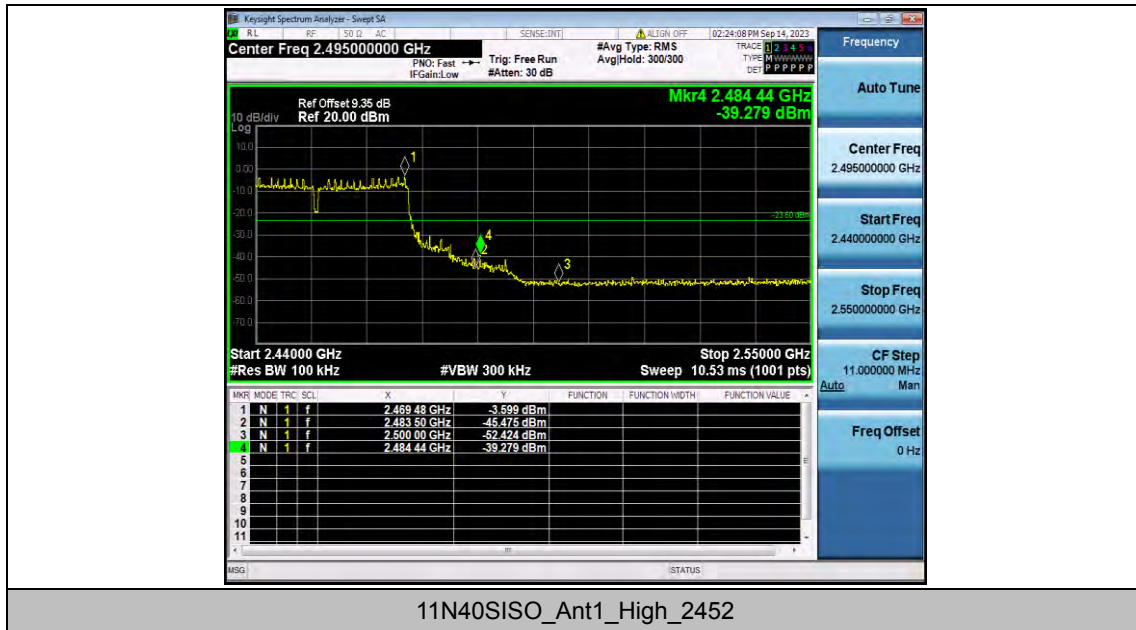
11N20SISO\_Ant1\_Low\_2412



11N20SISO\_Ant1\_High\_2462



11N40SISO\_Ant1\_Low\_2422



11N40SISO\_Ant1\_High\_2452



## Appendix C.6: Conducted Spurious Emission

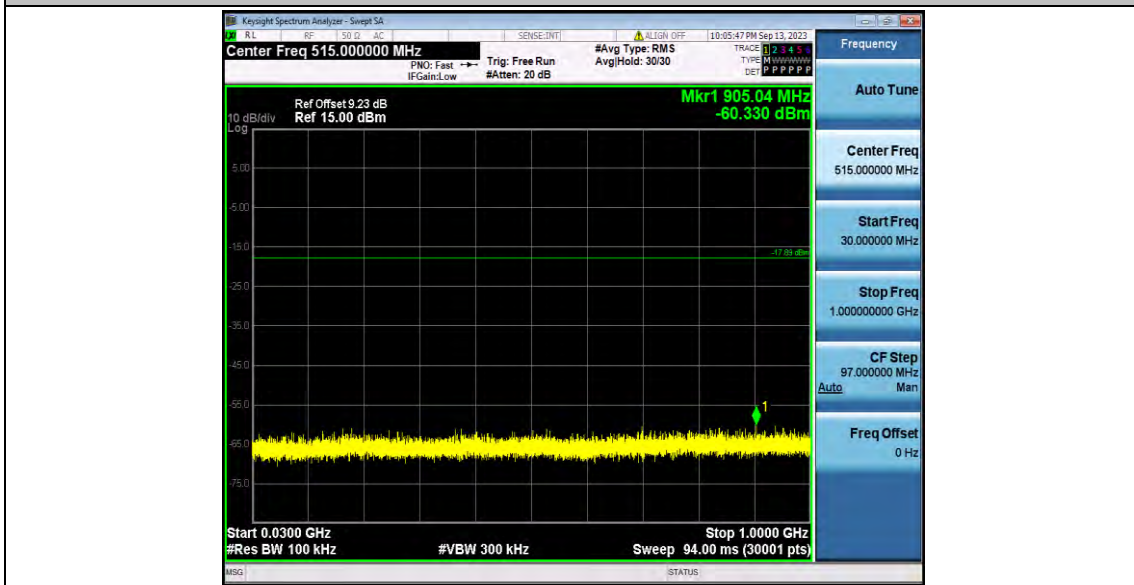
### Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-60.33	$\leq -17.89$	PASS
			1000~26500	2.11	-48.39	$\leq -17.89$	PASS
		2437	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-59.99	$\leq -19.05$	PASS
			1000~26500	0.95	-30.78	$\leq -19.05$	PASS
		2462	Reference	1.92	1.92	---	PASS
			30~1000	1.92	-60.33	$\leq -18.08$	PASS
			1000~26500	1.92	-34.26	$\leq -18.08$	PASS
11G	Ant1	2412	Reference	-0.51	-0.51	---	PASS
			30~1000	-0.51	-60.21	$\leq -20.51$	PASS
			1000~26500	-0.51	-47.31	$\leq -20.51$	PASS
		2437	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-59.92	$\leq -19.32$	PASS
			1000~26500	0.68	-43.58	$\leq -19.32$	PASS
		2462	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-59.73	$\leq -20.62$	PASS
			1000~26500	-0.62	-47.82	$\leq -20.62$	PASS
11N20SISO	Ant1	2412	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-59.68	$\leq -19.66$	PASS
			1000~26500	0.34	-37.03	$\leq -19.66$	PASS
		2437	Reference	0.97	0.97	---	PASS
			30~1000	0.97	-60.12	$\leq -19.03$	PASS
			1000~26500	0.97	-47.98	$\leq -19.03$	PASS
		2462	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-60	$\leq -20.24$	PASS
			1000~26500	-0.24	-47.47	$\leq -20.24$	PASS
11N40SISO	Ant1	2422	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-59.14	$\leq -21.45$	PASS
			1000~26500	-1.45	-31.81	$\leq -21.45$	PASS
		2437	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-60.59	$\leq -21.99$	PASS
			1000~26500	-1.99	-37.47	$\leq -21.99$	PASS
		2452	Reference	-3.67	-3.67	---	PASS
			30~1000	-3.67	-60.41	$\leq -23.67$	PASS
			1000~26500	-3.67	-47.16	$\leq -23.67$	PASS

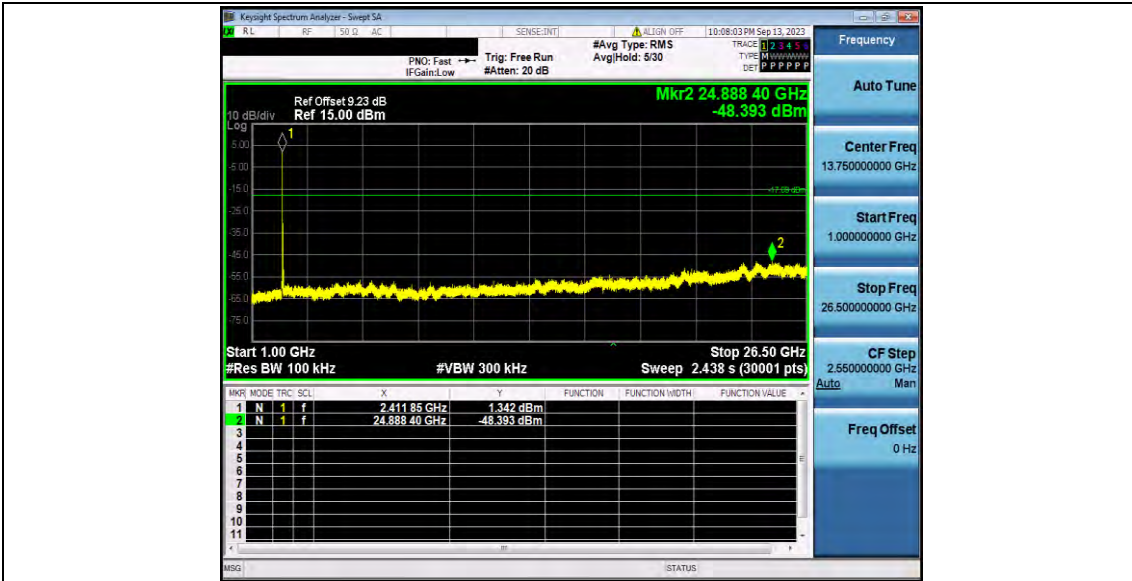
## Test Graphs



11B\_Ant1\_2412\_0~Reference



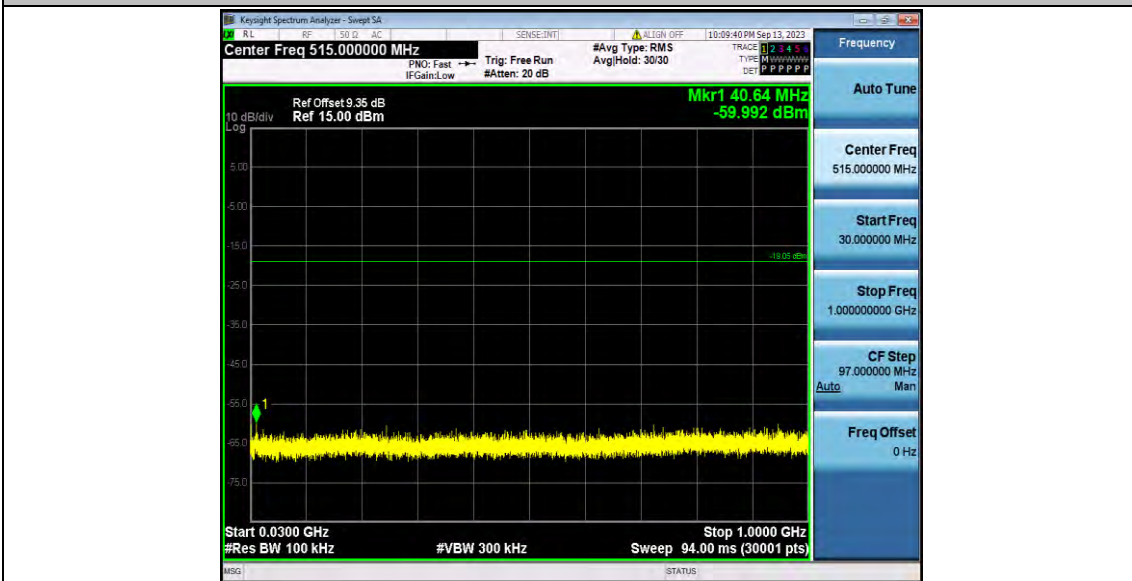
11B\_Ant1\_2412\_30~1000



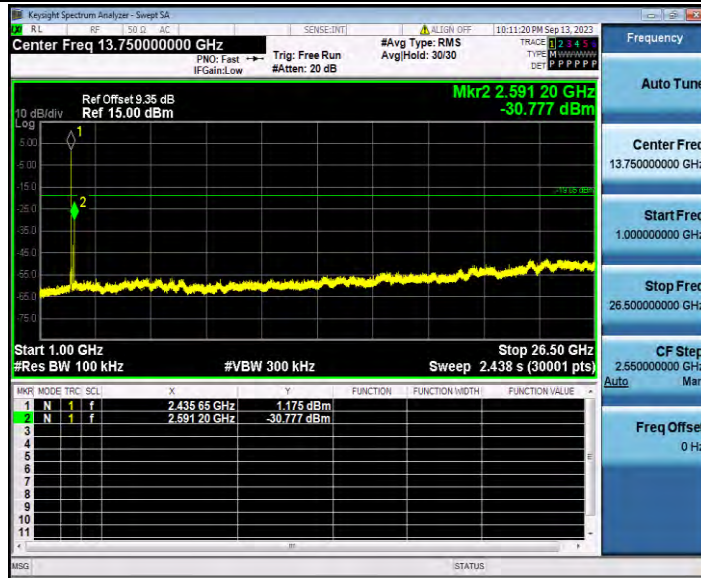
11B\_Ant1\_2412\_1000~26500



11B\_Ant1\_2437\_0~Reference



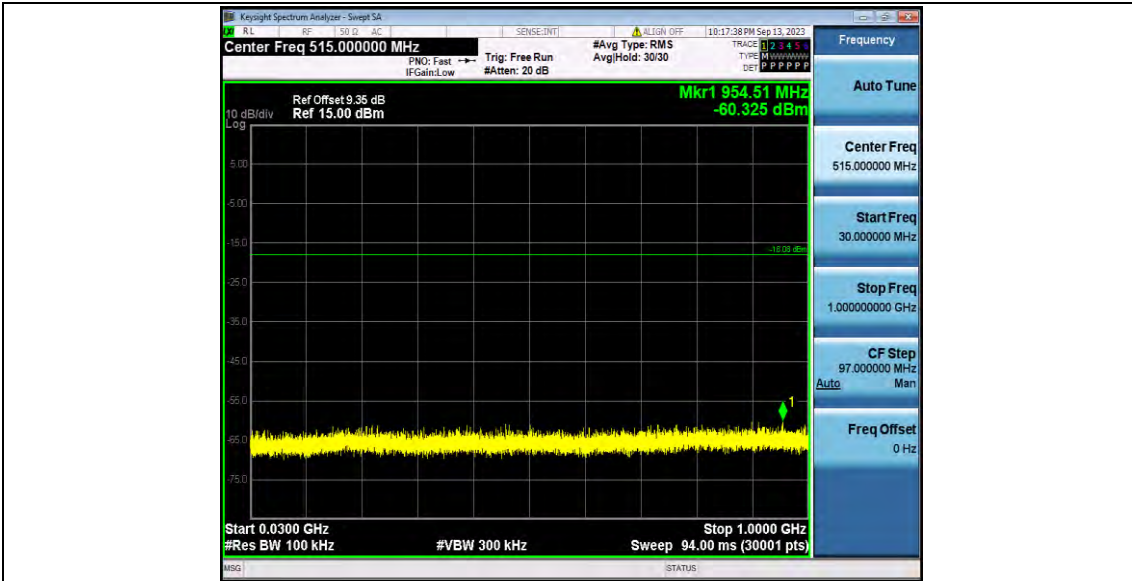
11B\_Ant1\_2437\_30~1000



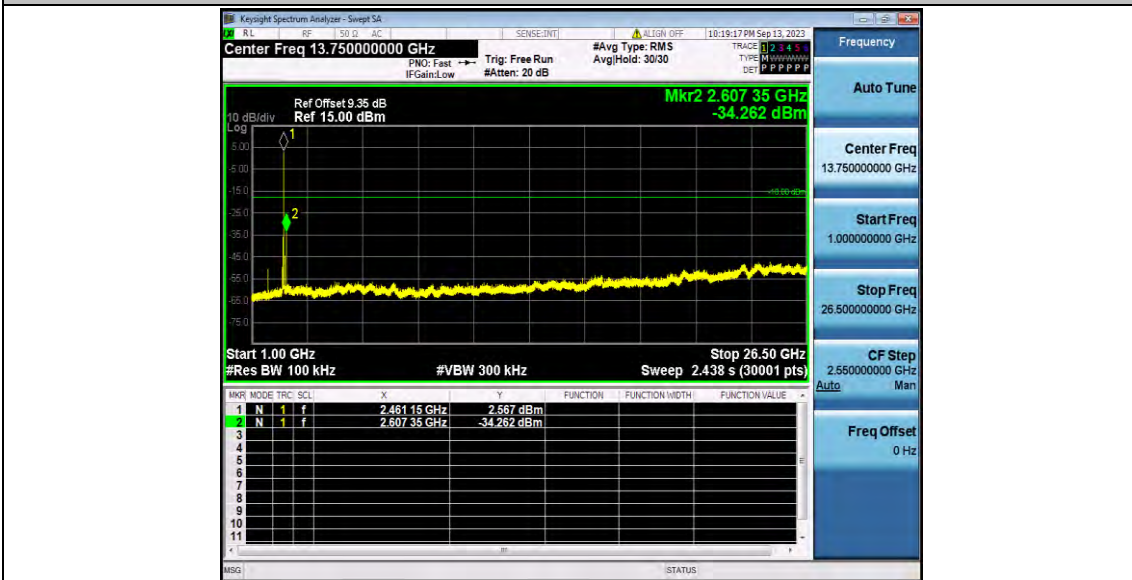
11B\_Ant1\_2437\_1000~26500



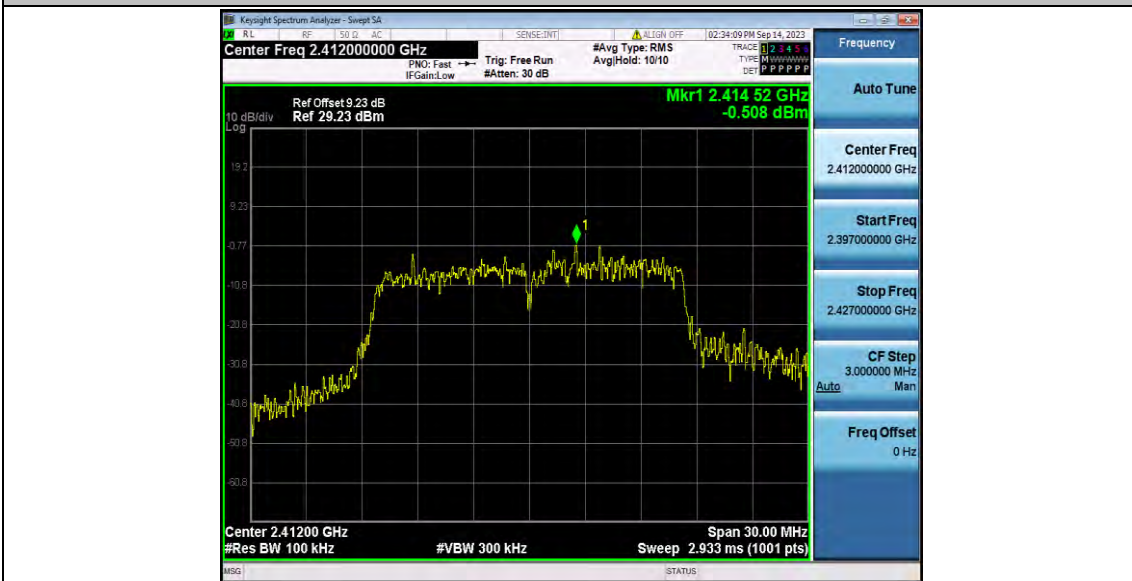
11B\_Ant1\_2462\_0~Reference



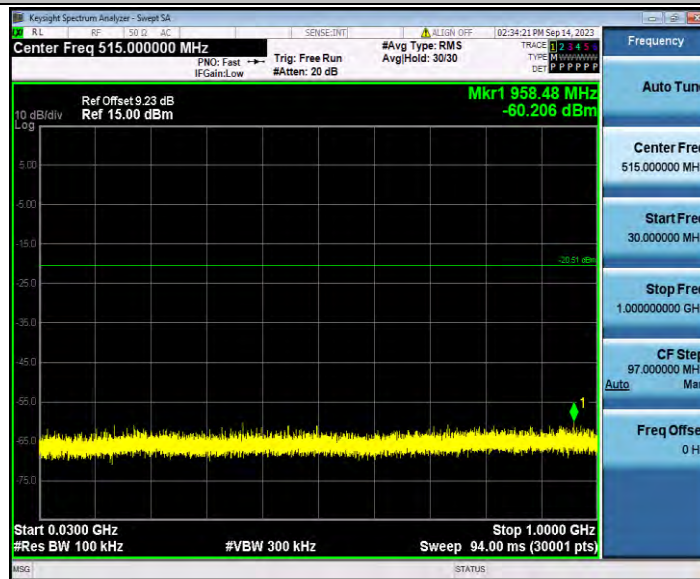
11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500



11G\_Ant1\_2412\_0~Reference



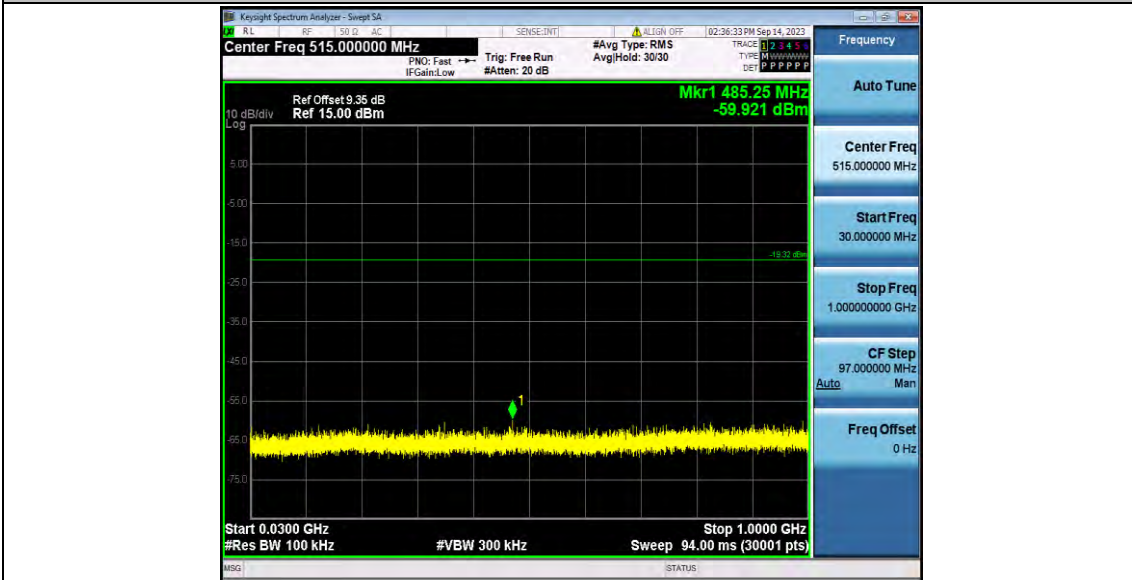
11G\_Ant1\_2412\_30~1000



11G\_Ant1\_2412\_1000~26500



11G\_Ant1\_2437\_0~Reference



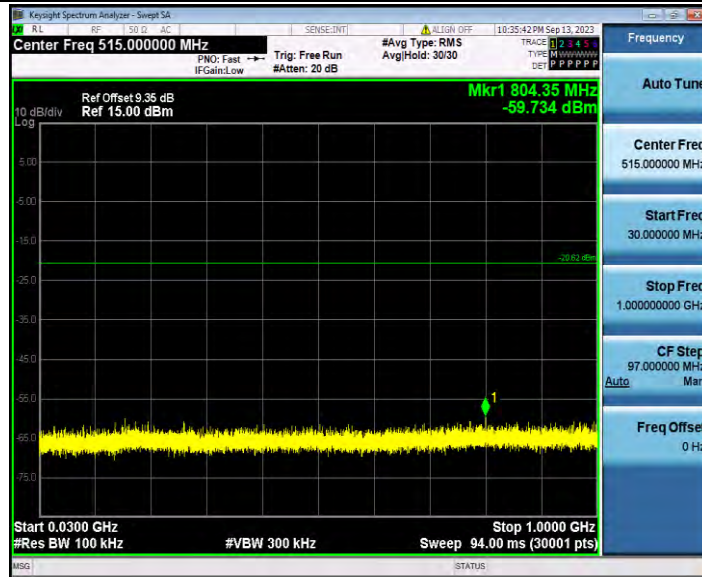
11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500

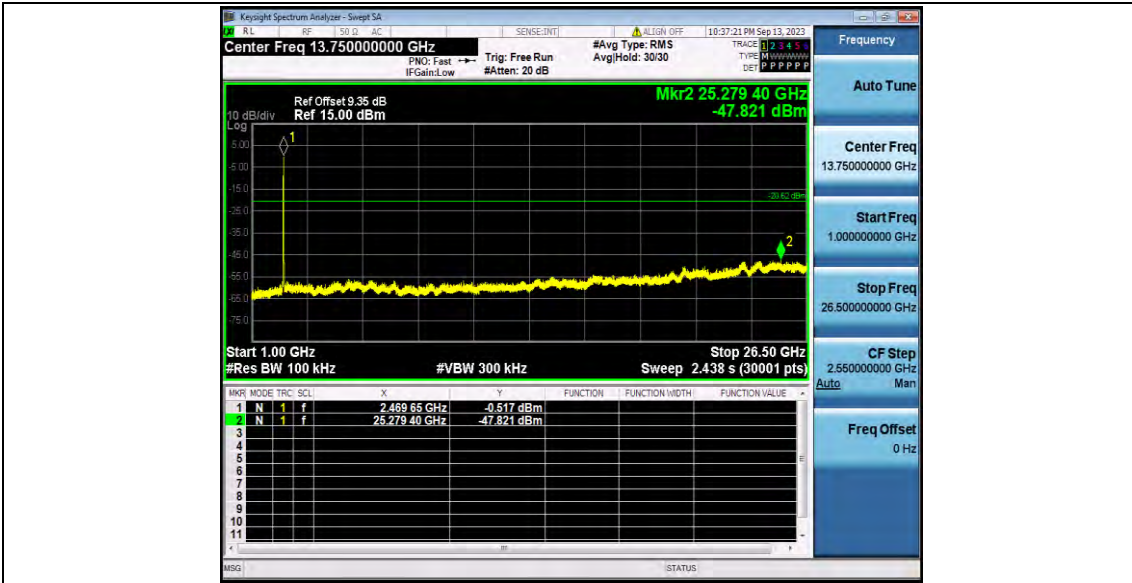


11G\_Ant1\_2462\_0~Reference



11G\_Ant1\_2462\_30~1000

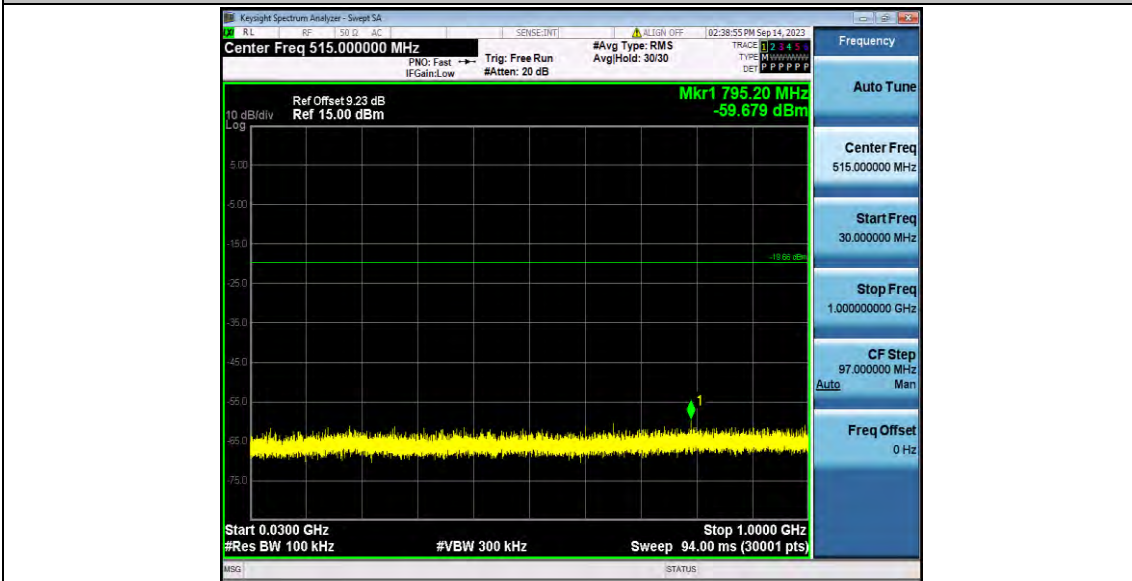




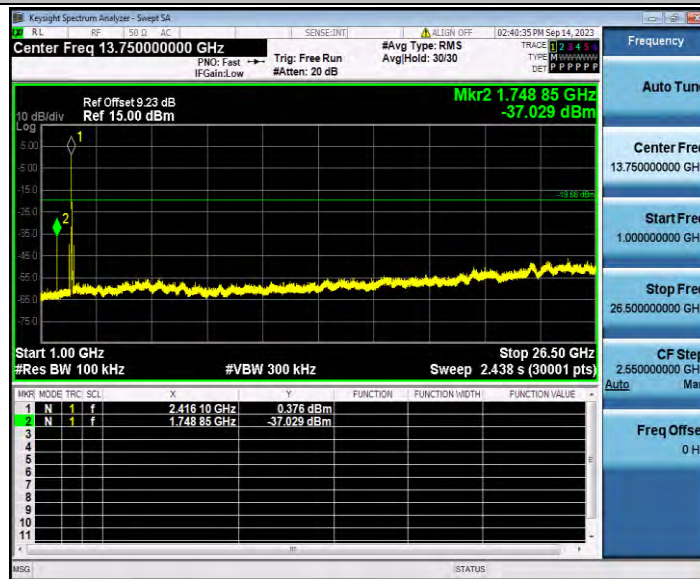
11G\_Ant1\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_0~Reference



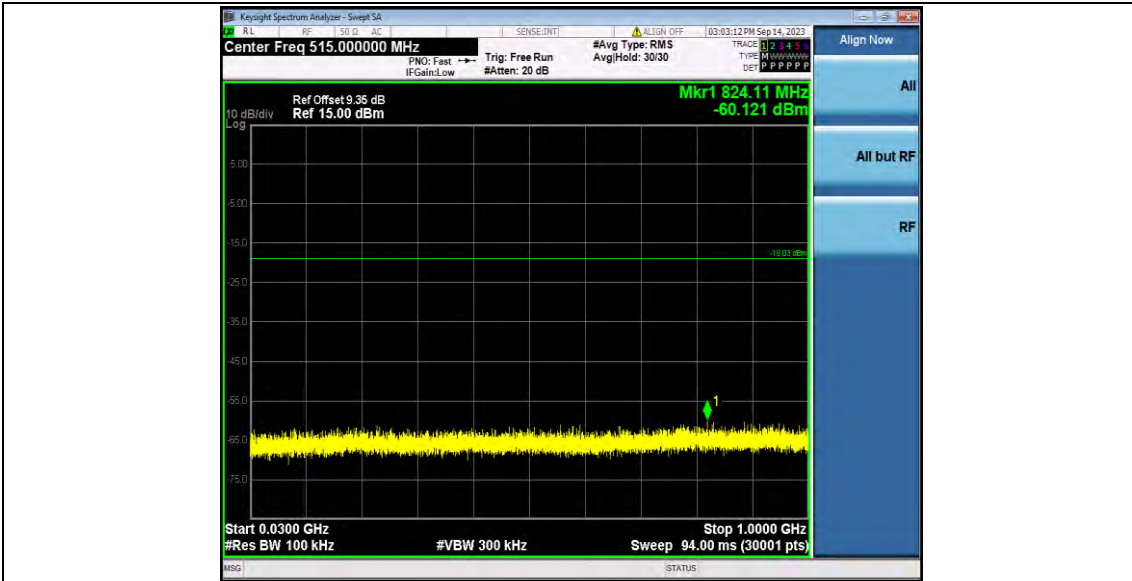
11N20SISO\_Ant1\_2412\_30~1000



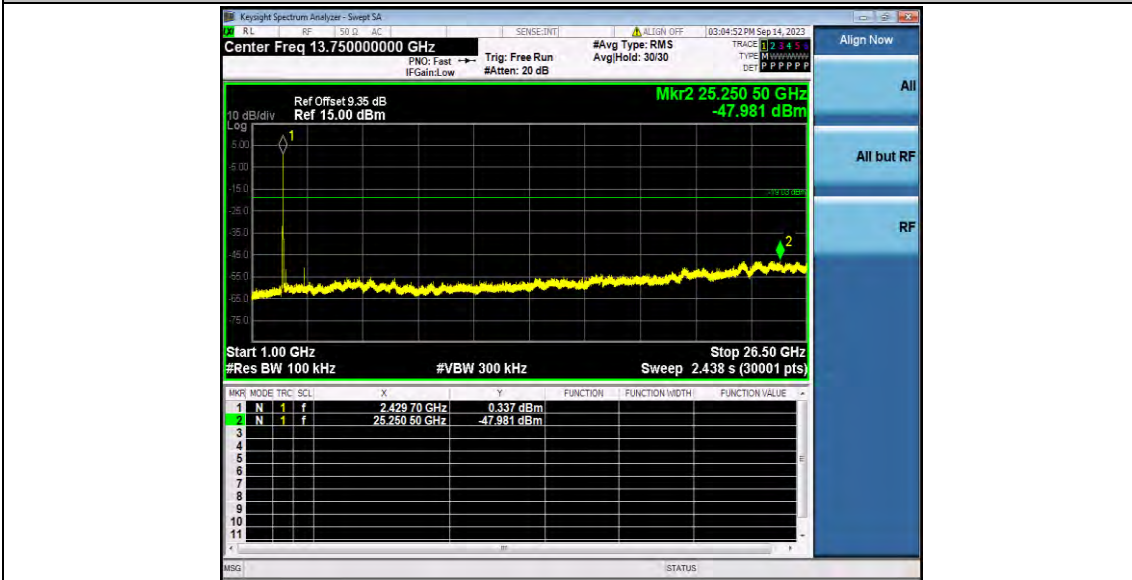
11N20SISO\_Ant1\_2412\_1000~26500



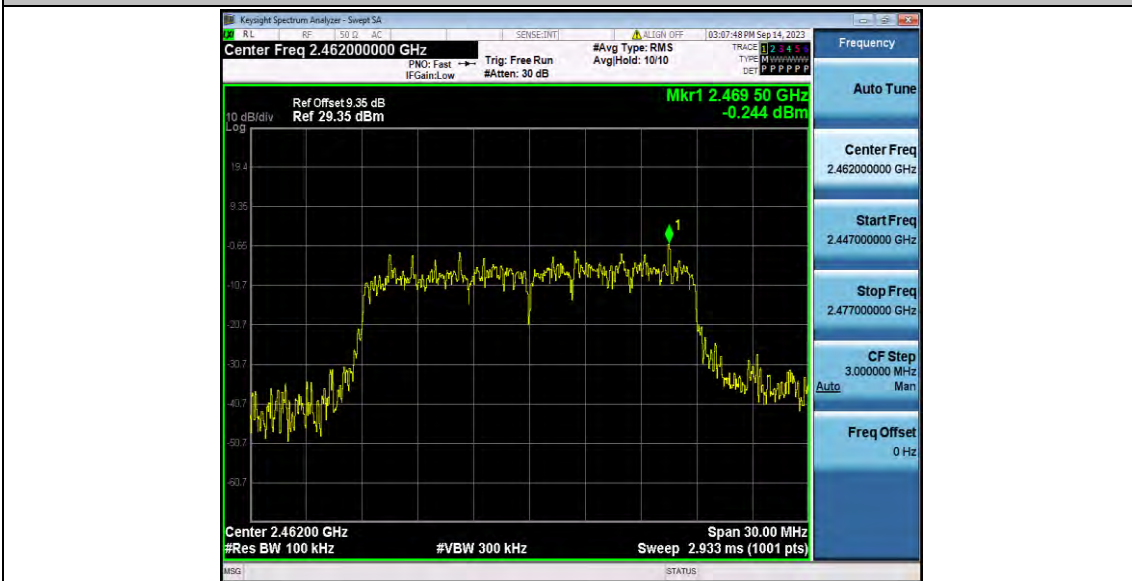
11N20SISO\_Ant1\_2437\_0~Reference



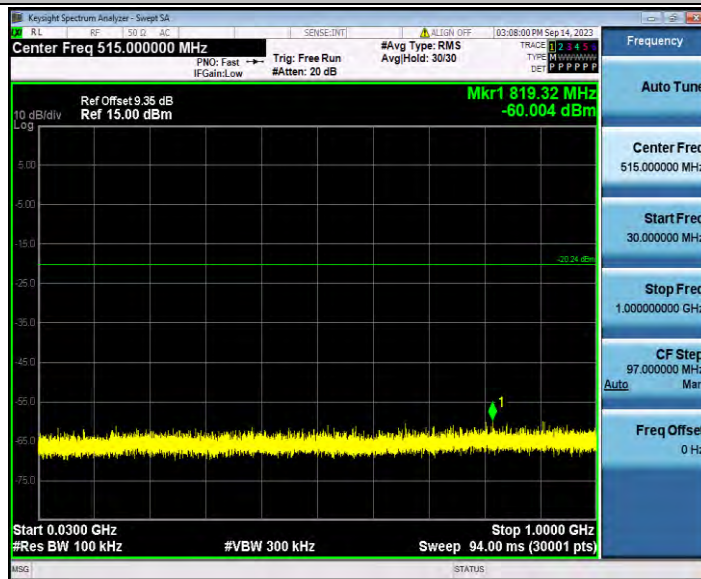
11N20SISO\_Ant1\_2437\_30~1000



11N20SISO\_Ant1\_2437\_1000~26500



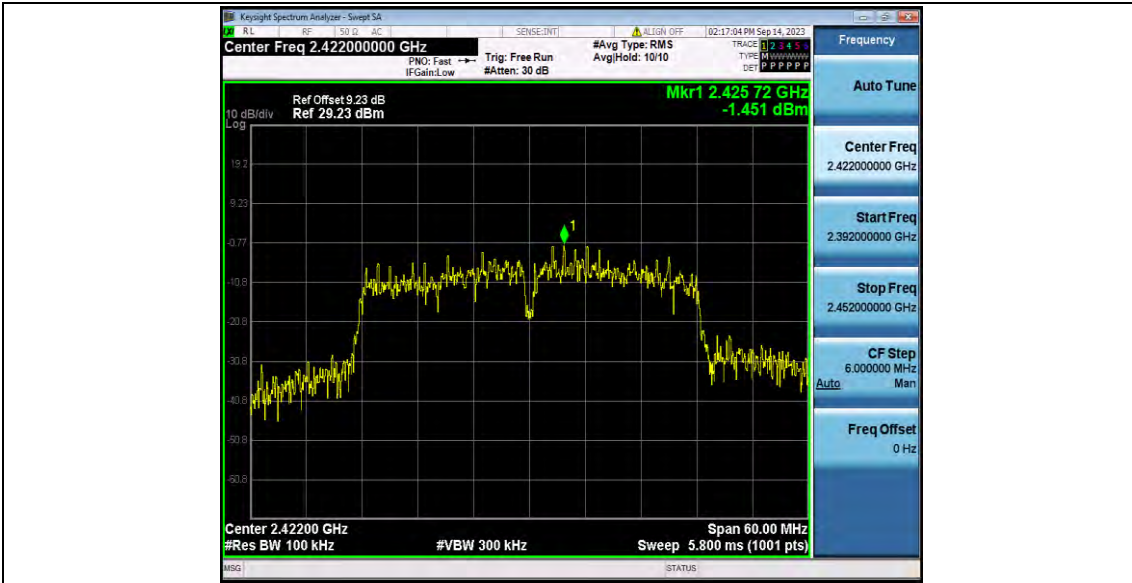
11N20SISO\_Ant1\_2462\_0~Reference



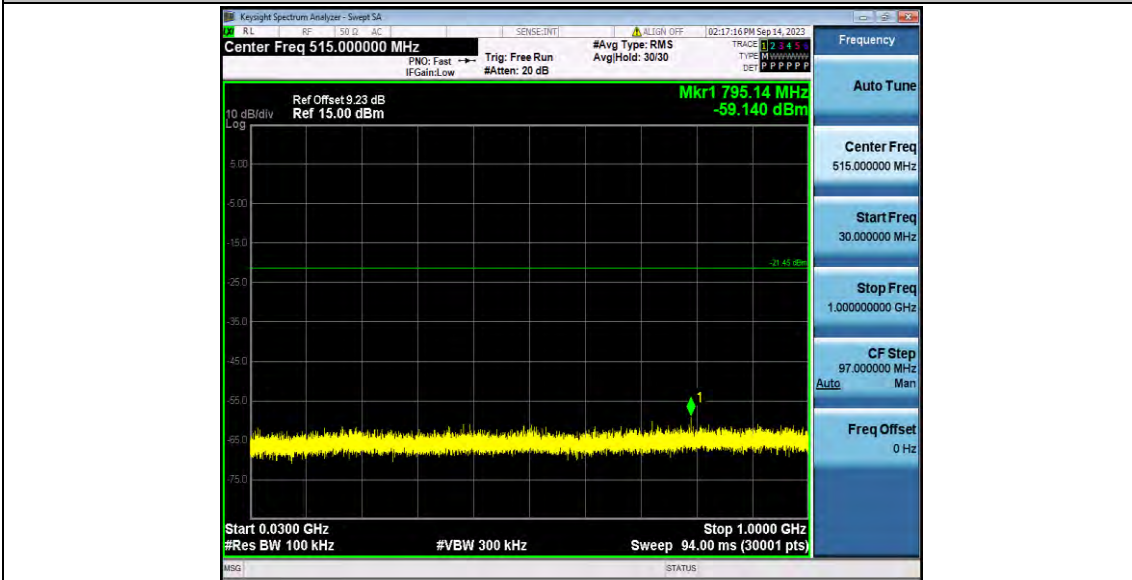
11N20SISO\_Ant1\_2462\_30~1000



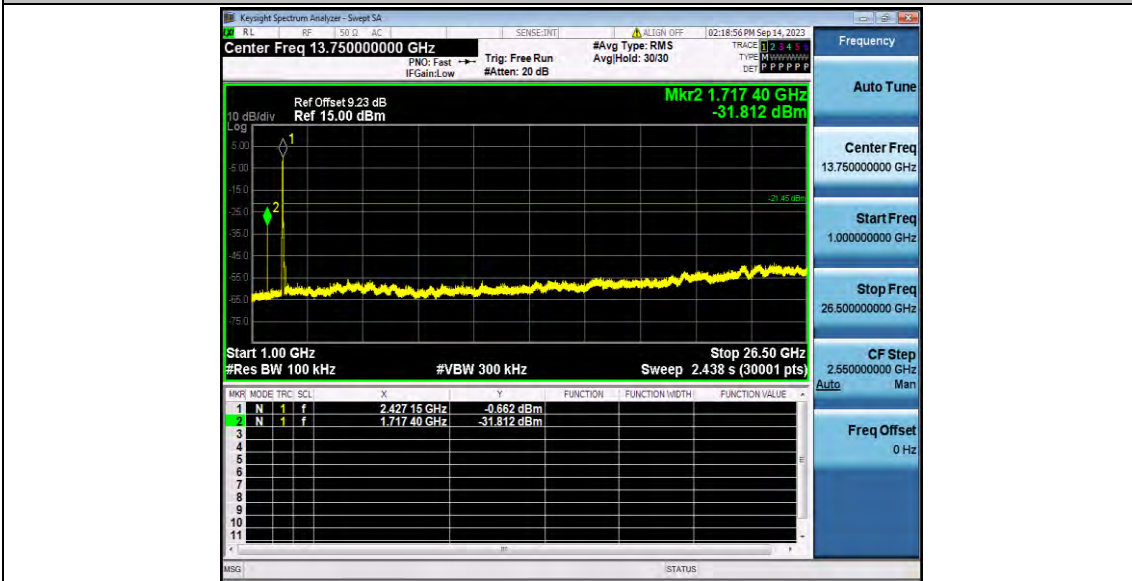
11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_0~Reference



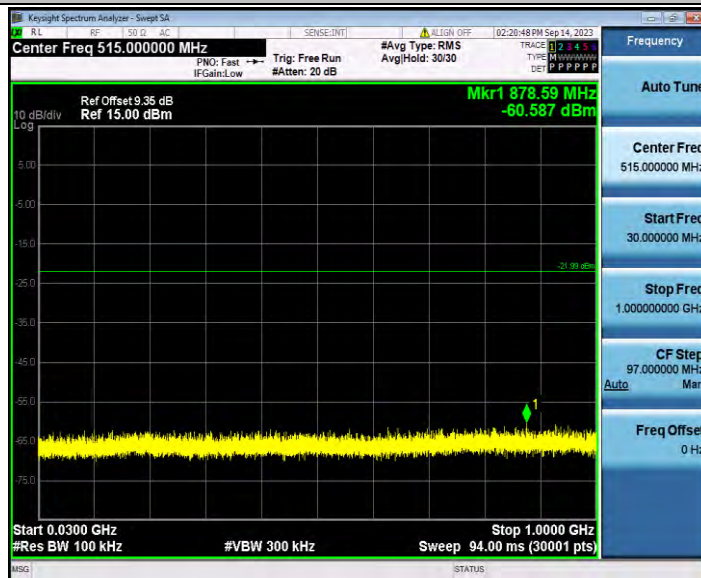
11N40SISO\_Ant1\_2422\_30~1000



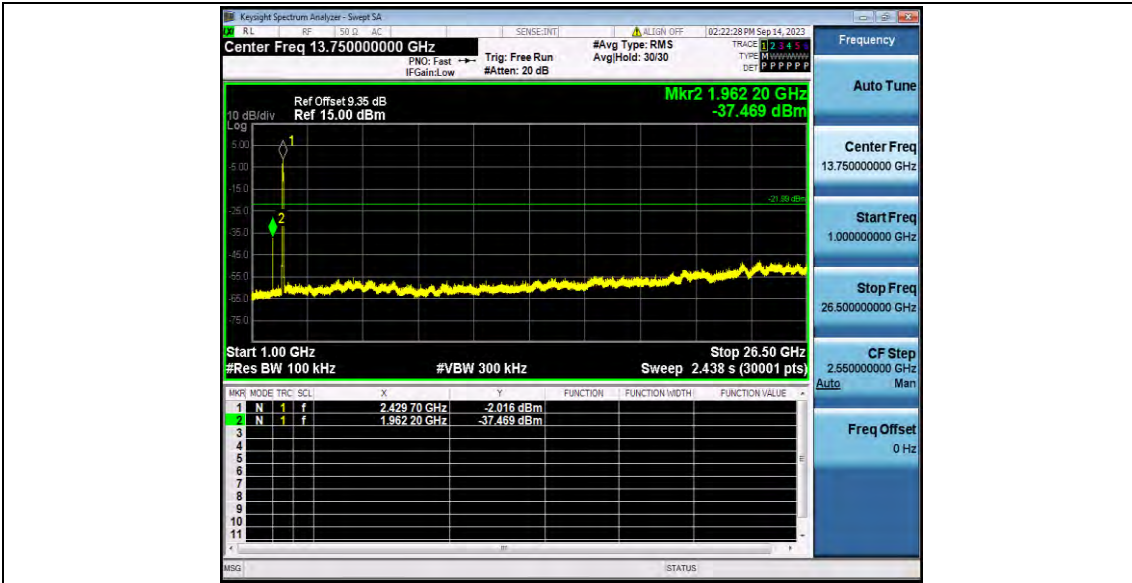
11N40SISO\_Ant1\_2422\_1000~26500



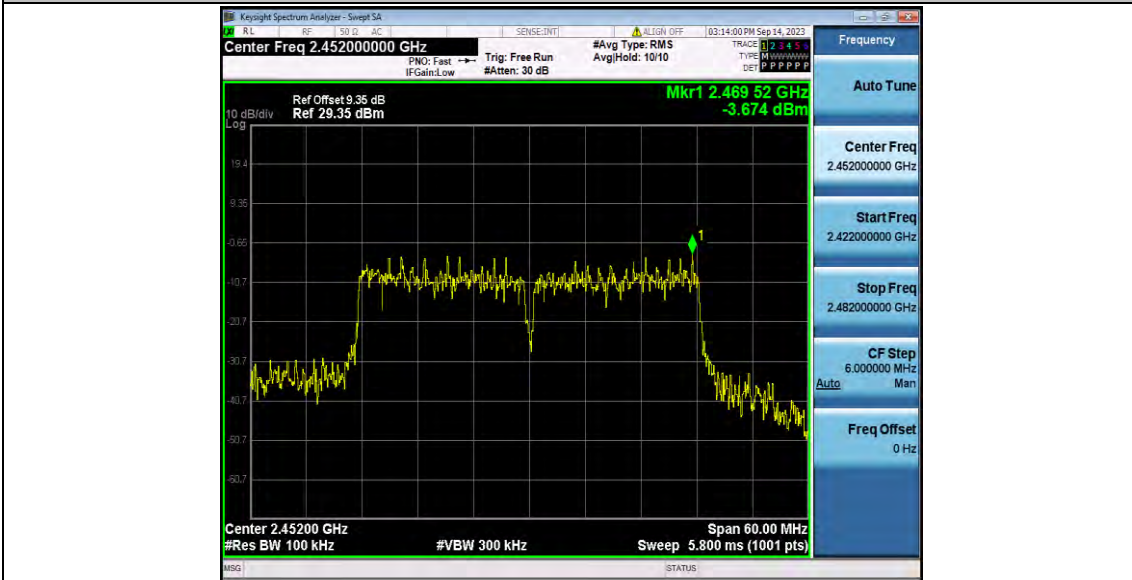
11N40SISO\_Ant1\_2437\_0~Reference



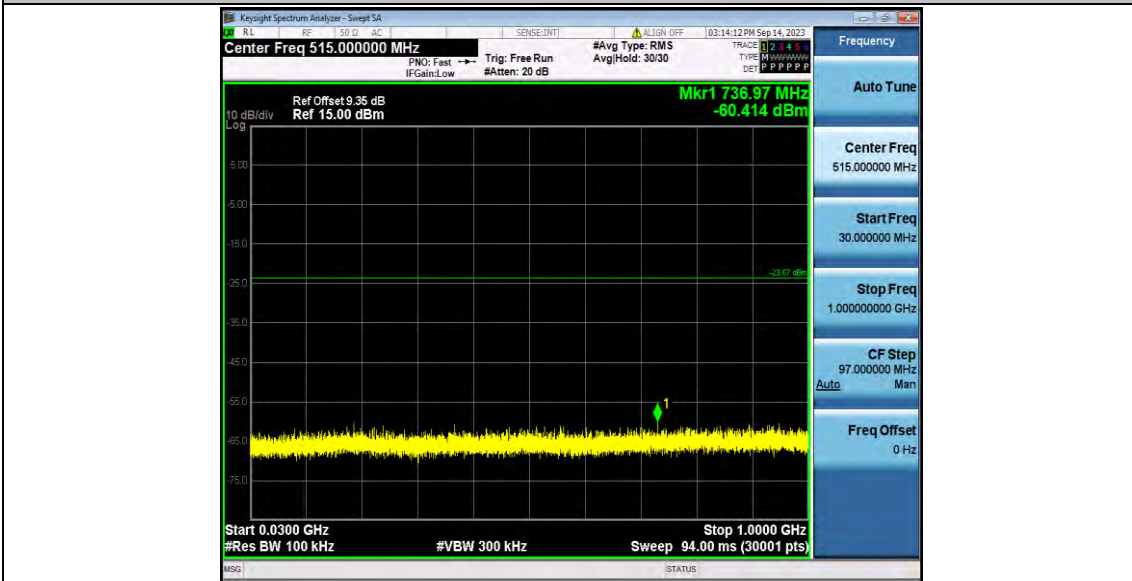
11N40SISO\_Ant1\_2437\_30~1000

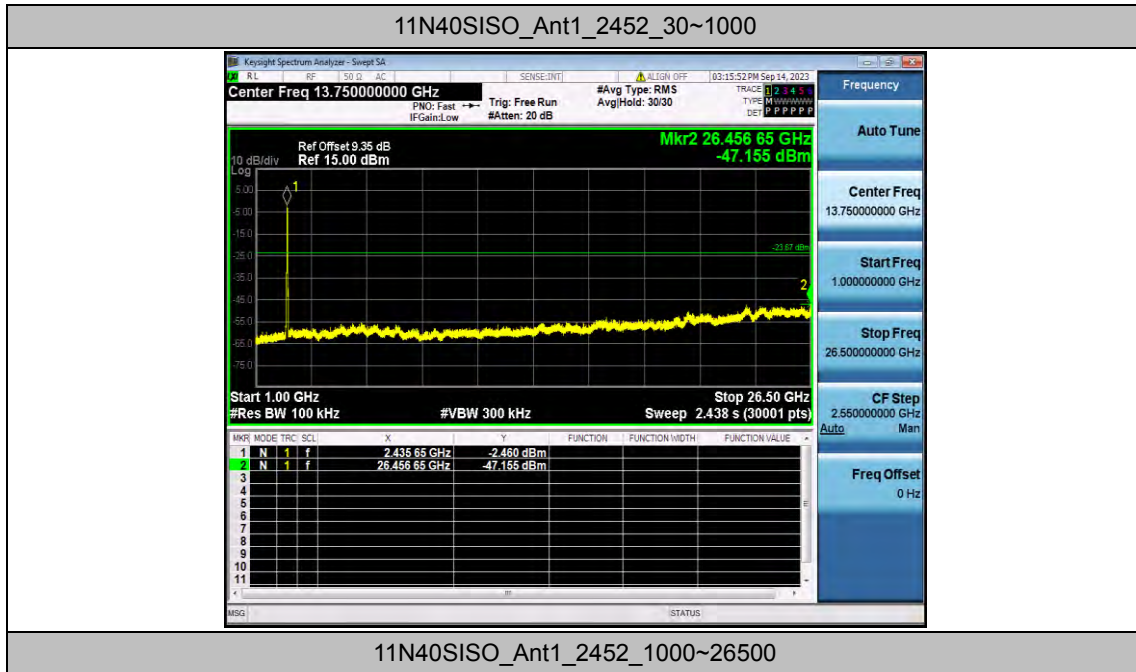


11N40SISO\_Ant1\_2437\_1000~26500



11N40SISO\_Ant1\_2452\_0~Reference







## Appendix C.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	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2386.840	-48.1	≤-41.20	47.10	≤54	PASS
				AV	2390.000	-48.52	≤-41.20	46.68	≤54	PASS
				Peak	2310.000	-44.71	≤-21.20	50.49	≤74	PASS
				Peak	2326.260	-39.93	≤-21.20	55.27	≤74	PASS
				Peak	2390.000	-49.18	≤-21.20	46.02	≤74	PASS
		High	2462	AV	2483.500	-48.59	≤-41.20	46.61	≤54	PASS
				AV	2485.650	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-45.36	≤-21.20	49.84	≤74	PASS
				Peak	2493.790	-40.25	≤-21.20	54.95	≤74	PASS
				Peak	2500.000	-42.74	≤-21.20	52.46	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2389.960	-46.16	≤-41.20	49.04	≤54	PASS
				AV	2390.000	-46.16	≤-41.20	49.04	≤54	PASS
				Peak	2310.000	-44.87	≤-21.20	50.33	≤74	PASS
				Peak	2388.530	-33.59	≤-21.20	61.61	≤74	PASS
				Peak	2390.000	-40.69	≤-21.20	54.51	≤74	PASS
		High	2462	AV	2483.500	-43.46	≤-41.20	51.74	≤54	PASS
				AV	2483.560	-43.72	≤-41.20	51.48	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-36.88	≤-21.20	58.32	≤74	PASS
				Peak	2483.890	-29.63	≤-21.20	65.57	≤74	PASS
				Peak	2500.000	-45.48	≤-21.20	49.72	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2389.960	-45.06	≤-41.20	50.14	≤54	PASS
				AV	2390.000	-45.06	≤-41.20	50.14	≤54	PASS
				Peak	2310.000	-41.07	≤-21.20	54.13	≤74	PASS
				Peak	2389.700	-33.35	≤-21.20	61.85	≤74	PASS
				Peak	2390.000	-37.19	≤-21.20	58.01	≤74	PASS
		High	2462	AV	2483.500	-41.68	≤-41.20	53.52	≤54	PASS
				AV	2483.560	-41.85	≤-41.20	53.35	≤54	PASS
				AV	2500.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2483.500	-35.91	≤-21.20	59.29	≤74	PASS
				Peak	2484.220	-29	≤-21.20	66.20	≤74	PASS
				Peak	2500.000	-42.21	≤-21.20	52.99	≤74	PASS

11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.38	$\leq -41.20$	45.82	$\leq 54$	PASS
				AV	2389.570	-41.84	$\leq -41.20$	53.36	$\leq 54$	PASS
				AV	2390.000	-41.92	$\leq -41.20$	53.28	$\leq 54$	PASS
				Peak	2310.000	-45.28	$\leq -21.20$	49.92	$\leq 74$	PASS
				Peak	2388.010	-27.66	$\leq -21.20$	67.54	$\leq 74$	PASS
				Peak	2390.000	-38.01	$\leq -21.20$	57.19	$\leq 74$	PASS
	High	2452	AV	2483.500	-45.88	$\leq -41.20$	49.32	$\leq 54$	PASS	
			AV	2483.560	-45.92	$\leq -41.20$	49.28	$\leq 54$	PASS	
			AV	2500.000	-48.67	$\leq -41.20$	46.53	$\leq 54$	PASS	
			Peak	2483.500	-42.29	$\leq -21.20$	52.91	$\leq 74$	PASS	
			Peak	2484.660	-32.14	$\leq -21.20$	63.06	$\leq 74$	PASS	
			Peak	2500.000	-44.29	$\leq -21.20$	50.91	$\leq 74$	PASS	

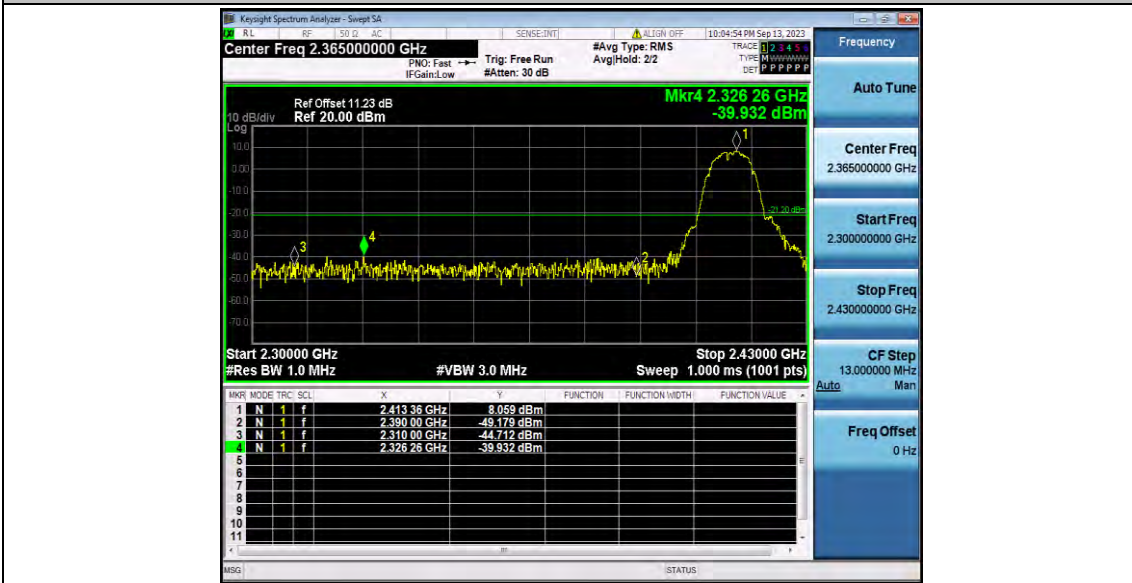
## Note:

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.

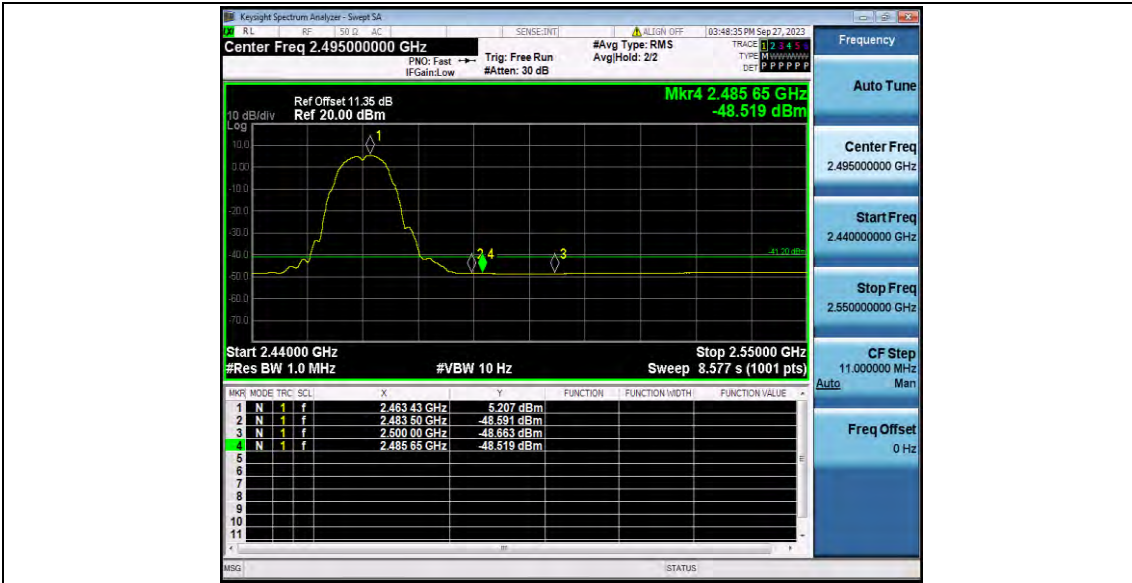
### Test Graphs



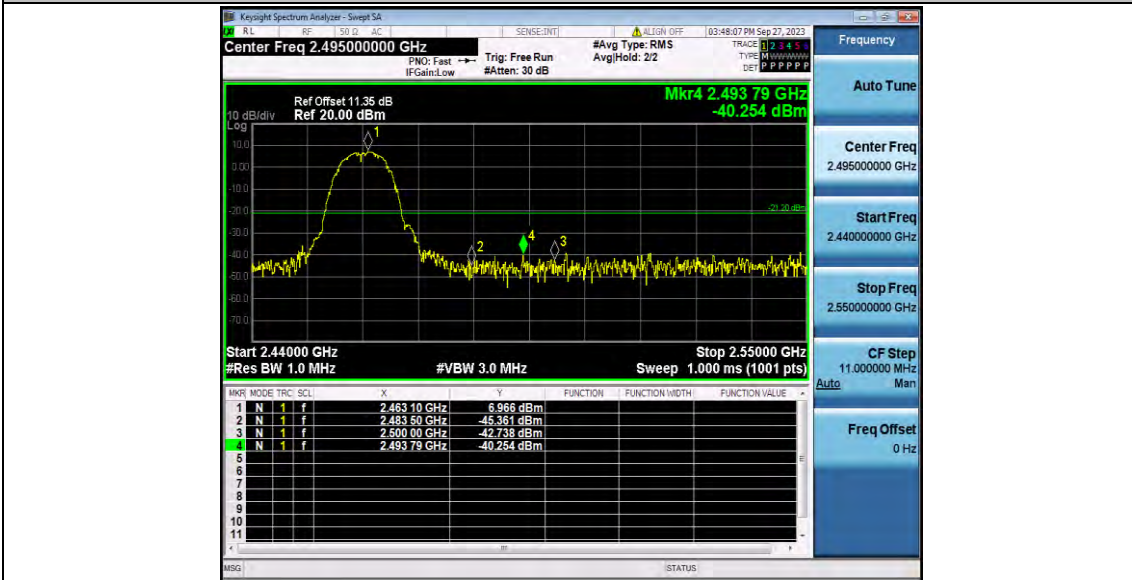
11B\_Ant1\_Low\_2412\_AV



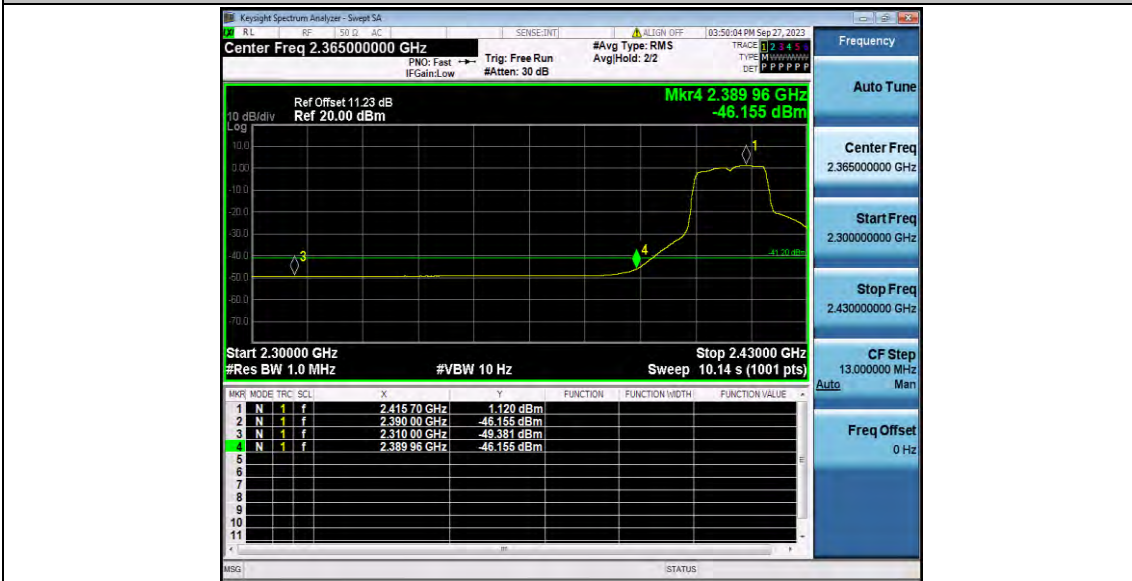
11B\_Ant1\_Low\_2412\_Peak



11B\_Ant1\_High\_2462\_AV



11B\_Ant1\_High\_2462\_Peak



11G\_Ant1\_Low\_2412\_AV



11G\_Ant1\_Low\_2412\_Peak



11G\_Ant1\_High\_2462\_AV



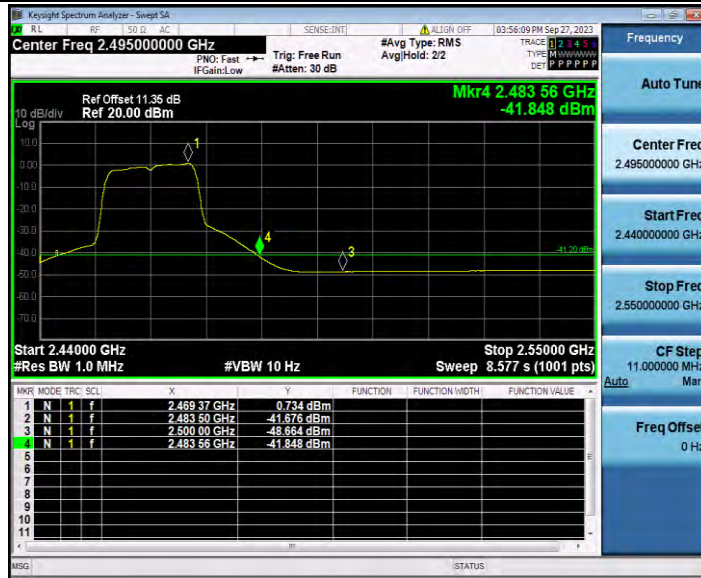
11G\_Ant1\_High\_2462\_Peak



11N20SISO\_Ant1\_Low\_2412\_AV



11N20SISO\_Ant1\_Low\_2412\_Peak



11N20SISO\_Ant1\_High\_2462\_AV



11N20SISO\_Ant1\_High\_2462\_Peak



11N40SISO\_Ant1\_Low\_2422\_AV



11N40SISO\_Ant1\_Low\_2422\_Peak

