



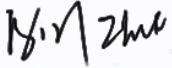
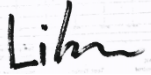
## Appendix B

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart Light Strip

Test Model: TYWFC6-14

#### Environmental Conditions

Temperature:	23.7° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	
Supervised by:	



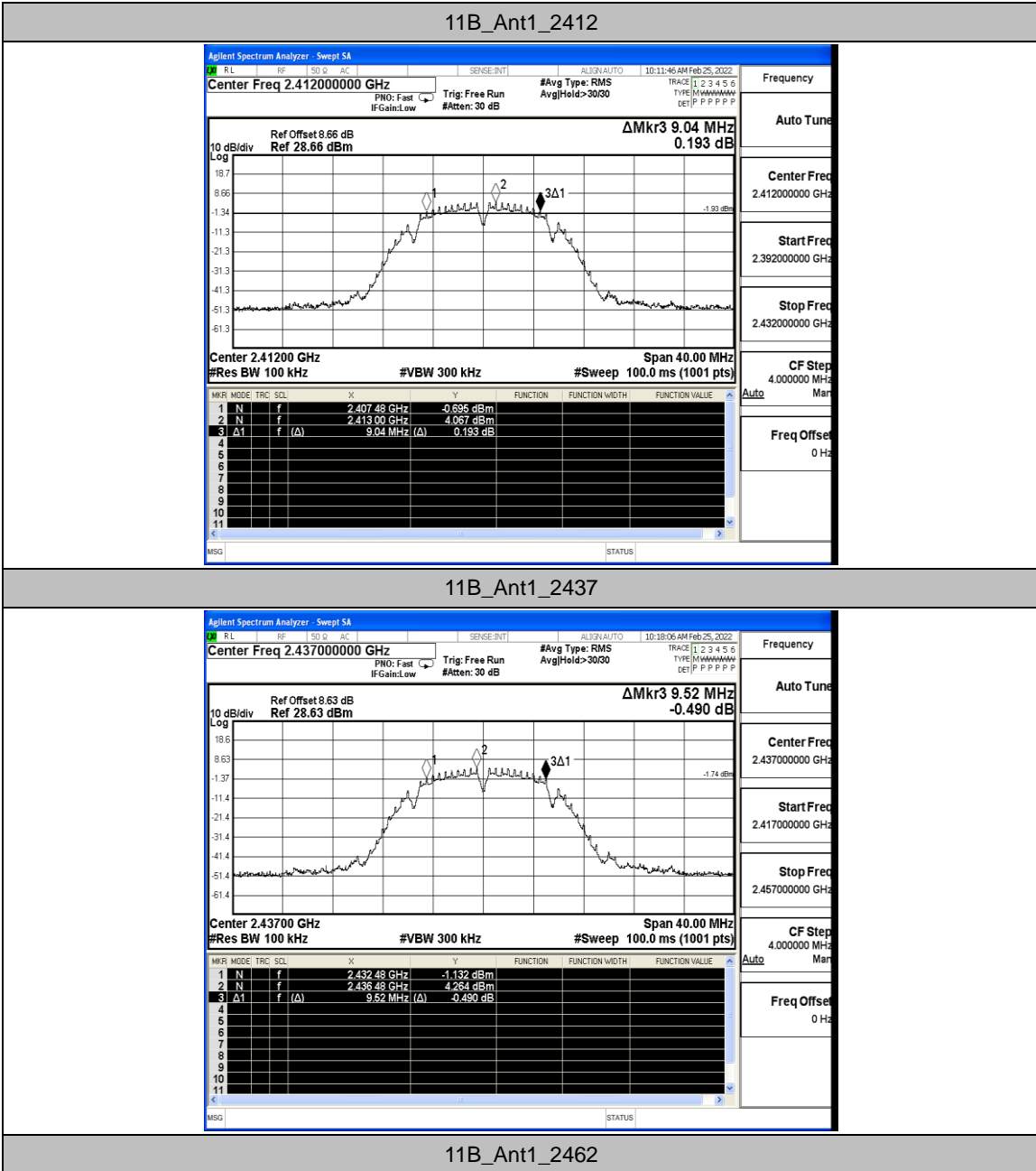
## B.1 6dB Bandwidth

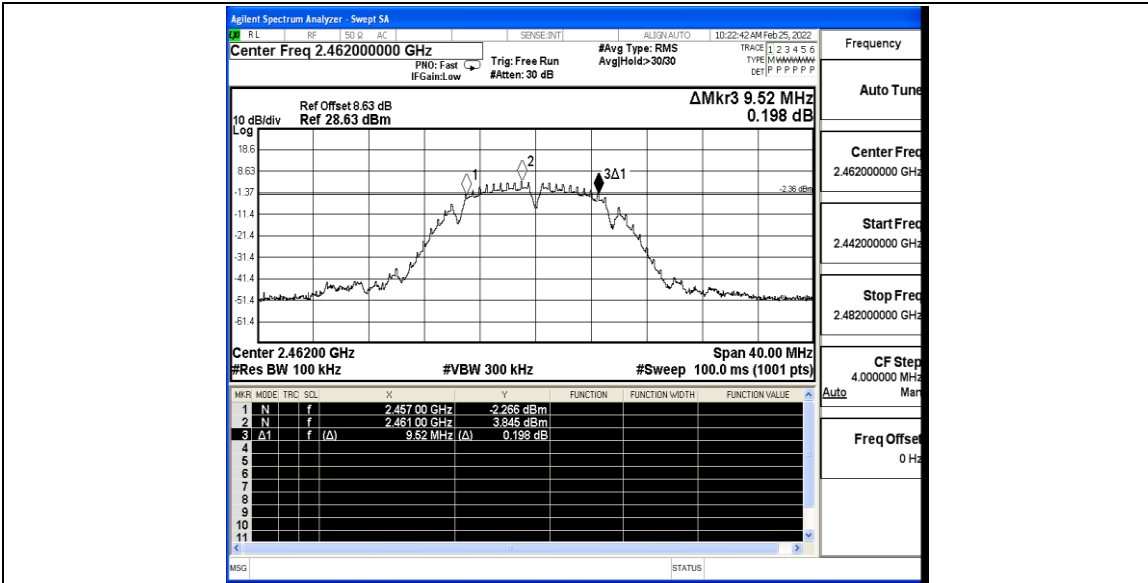
### Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.520	2432.480	2442.000	0.5	PASS
		2462	9.520	2457.000	2466.520	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.040	2453.840	2469.880	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.200	2453.200	2470.400	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.480	2440.160	0.5	PASS
		2437	35.440	2419.480	2454.920	0.5	PASS
		2452	35.360	2434.160	2469.520	0.5	PASS

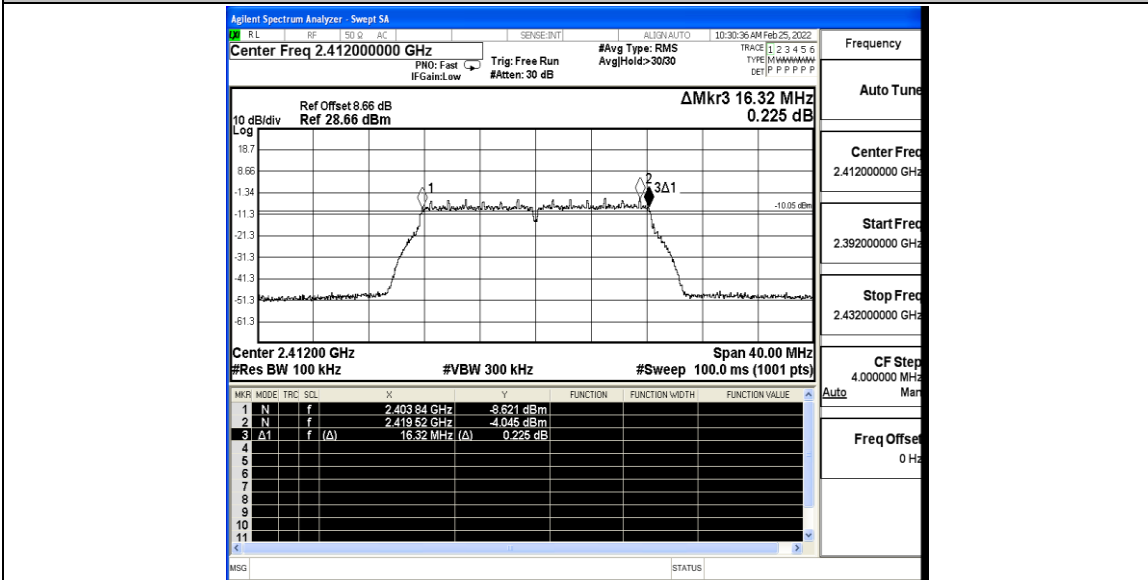


### Test Graphs

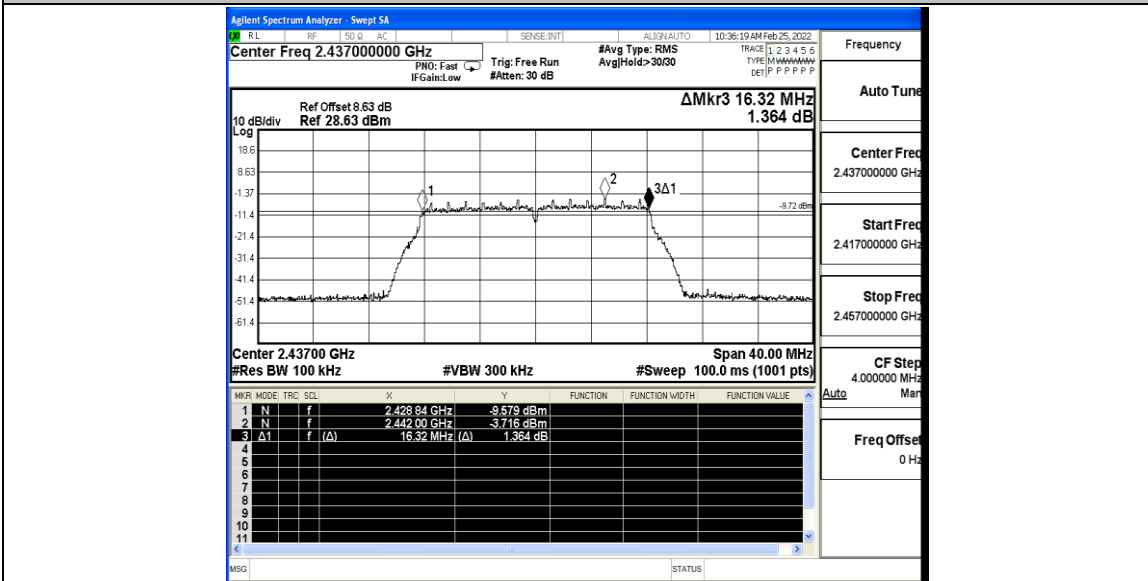




11G\_Ant1\_2412

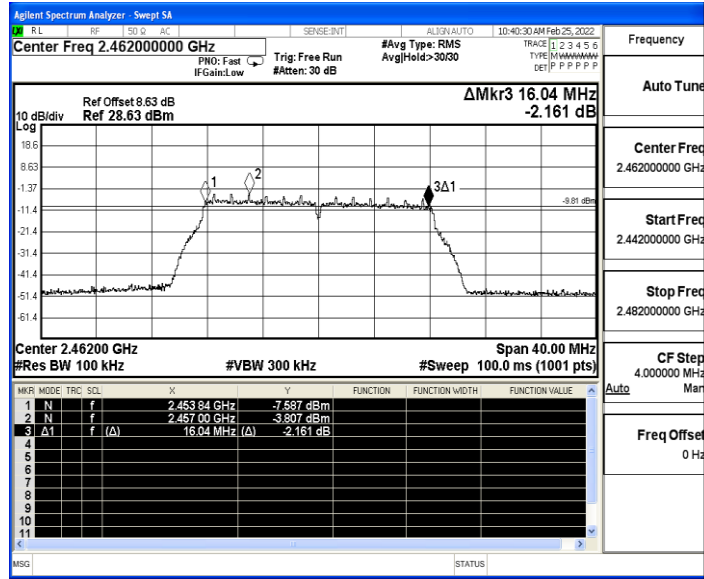


11G\_Ant1\_2437

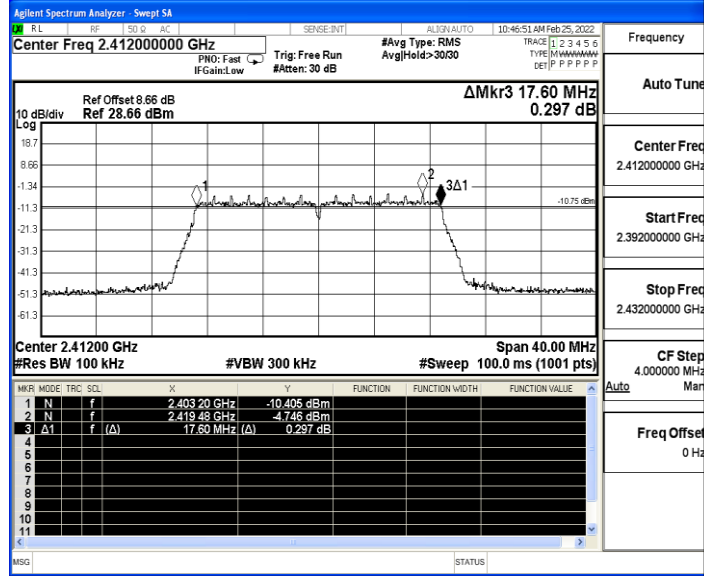




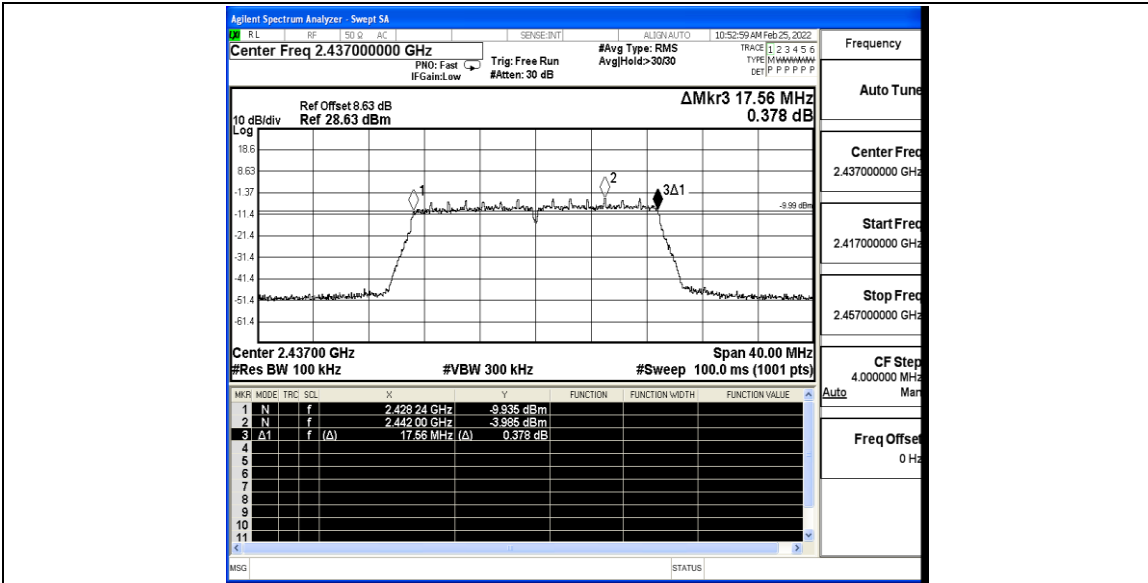
11G\_Ant1\_2462



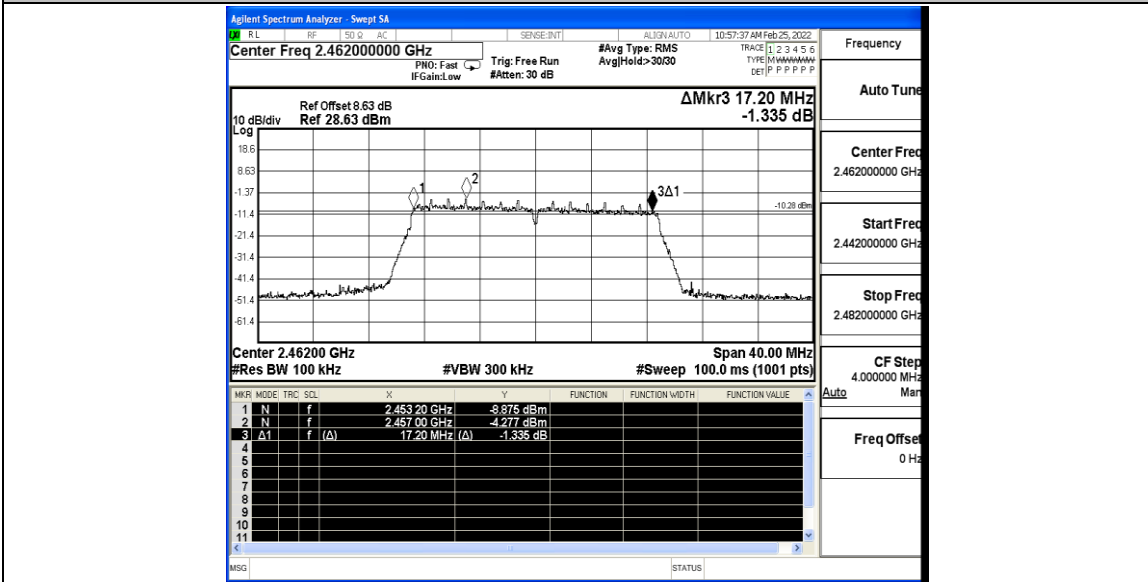
11N20SISO\_Ant1\_2412



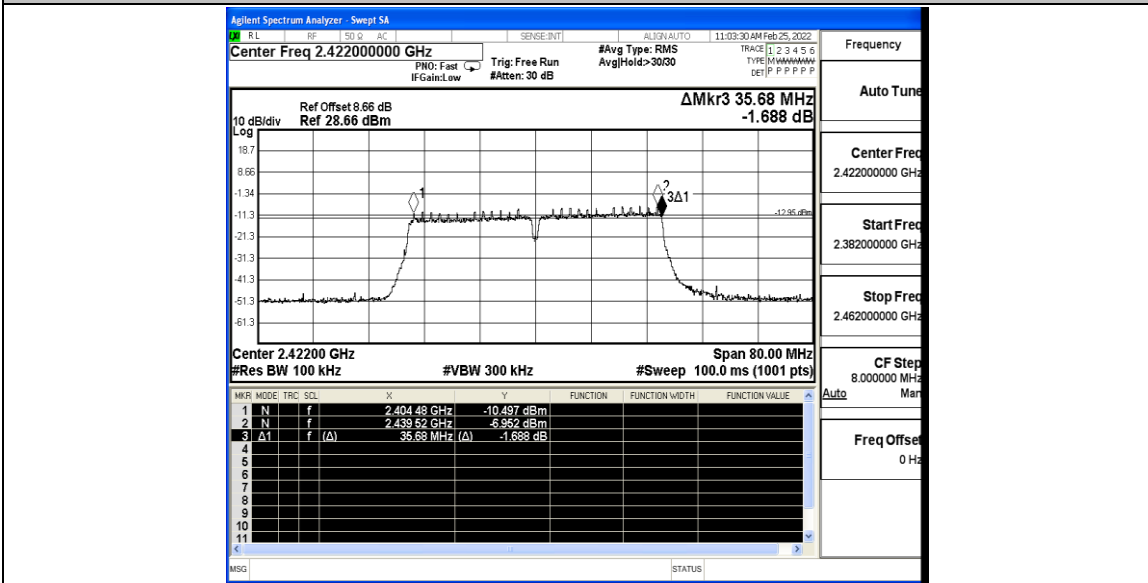
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

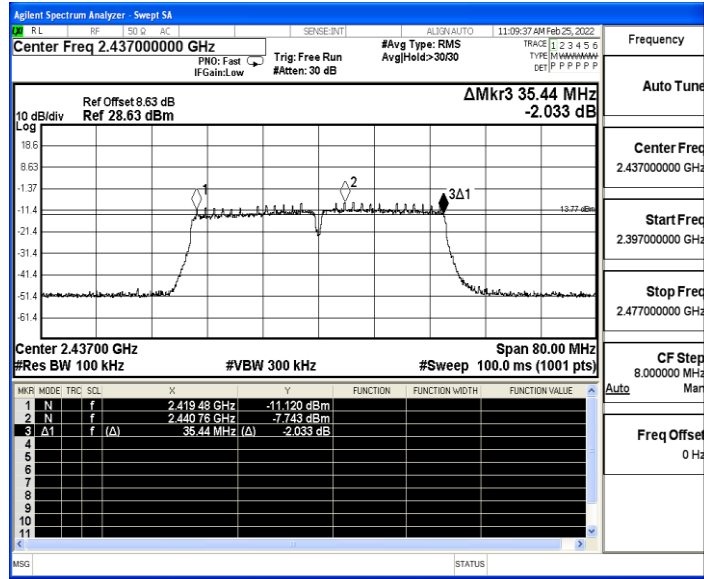


11N40SISO\_Ant1\_2422

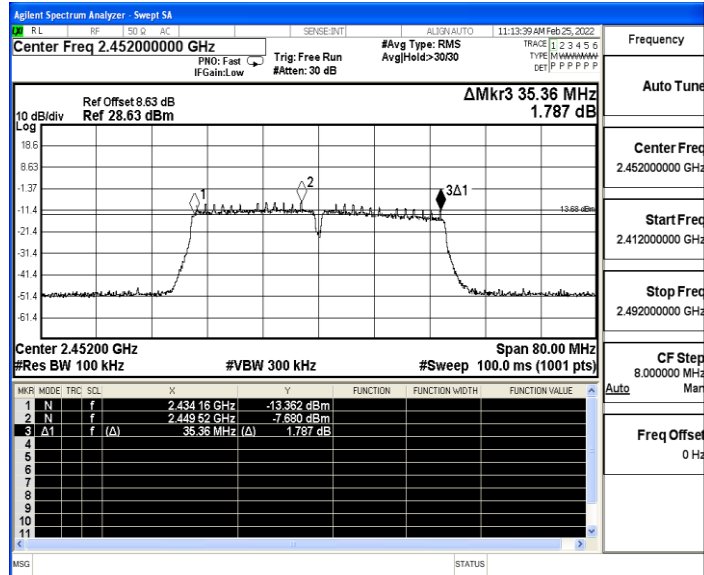




11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452





## B.2 Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.62	≤30.00	PASS
		2437	15.78	≤30.00	PASS
		2462	15.32	≤30.00	PASS
11G	Ant1	2412	15.06	≤30.00	PASS
		2437	15.25	≤30.00	PASS
		2462	14.89	≤30.00	PASS
11N20SISO	Ant1	2412	14.47	≤30.00	PASS
		2437	15.03	≤30.00	PASS
		2462	14.42	≤30.00	PASS
11N40SISO	Ant1	2422	14.22	≤30.00	PASS
		2437	14.11	≤30.00	PASS
		2452	13.92	≤30.00	PASS





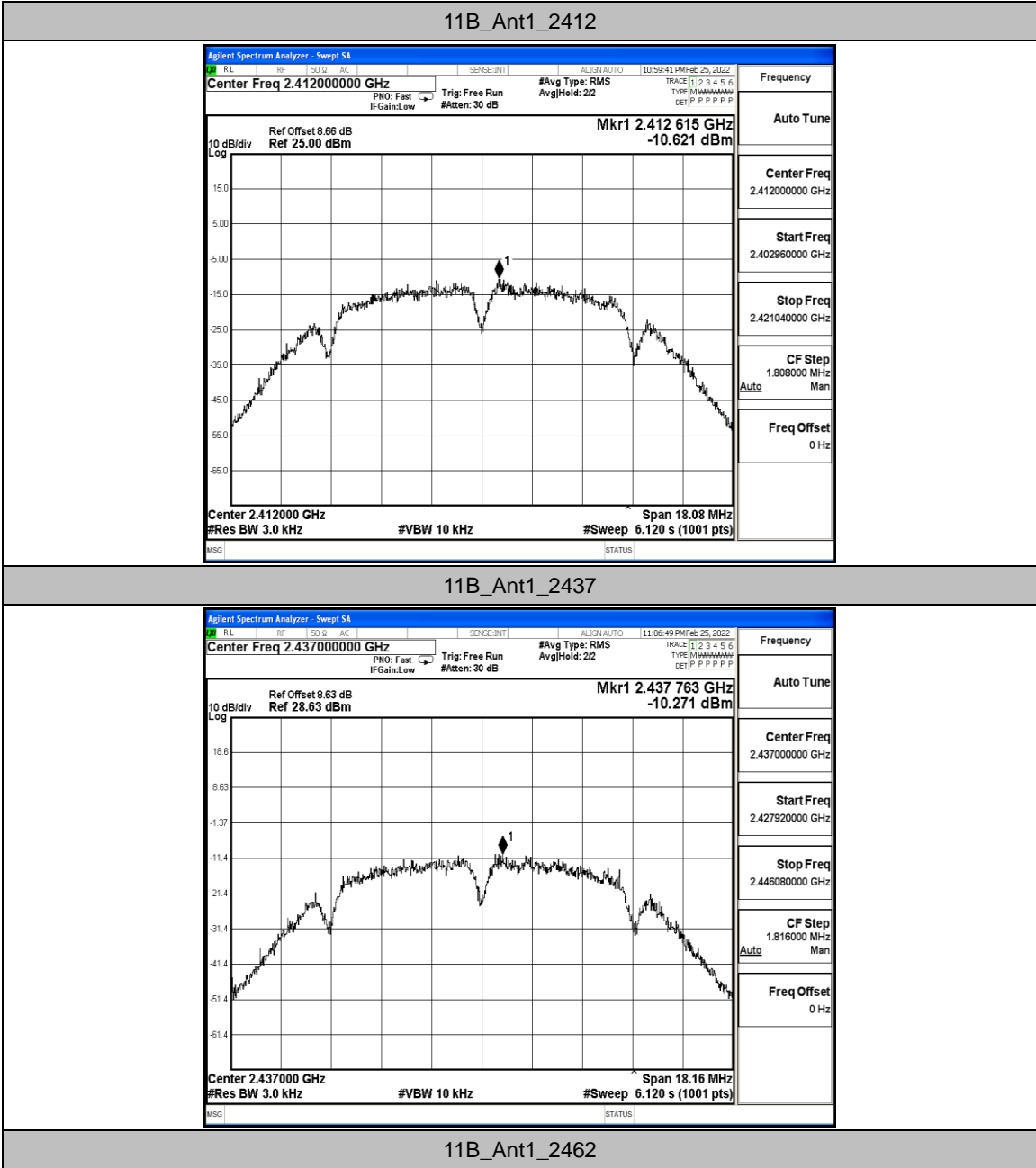
## B.3 Maximum power spectral density

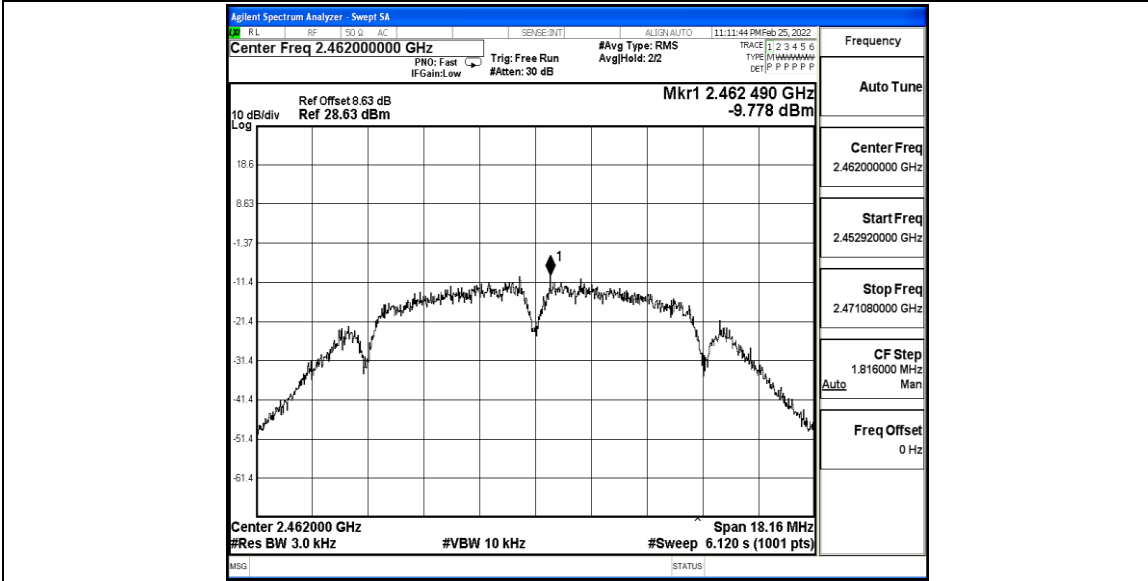
### Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.62	≤8.00	PASS
		2437	-10.27	≤8.00	PASS
		2462	-9.78	≤8.00	PASS
11G	Ant1	2412	-18.04	≤8.00	PASS
		2437	-18.84	≤8.00	PASS
		2462	-19.25	≤8.00	PASS
11N20SISO	Ant1	2412	-19.3	≤8.00	PASS
		2437	-19.04	≤8.00	PASS
		2462	-20.64	≤8.00	PASS
11N40SISO	Ant1	2422	-23.32	≤8.00	PASS
		2437	-22.08	≤8.00	PASS
		2452	-23.45	≤8.00	PASS

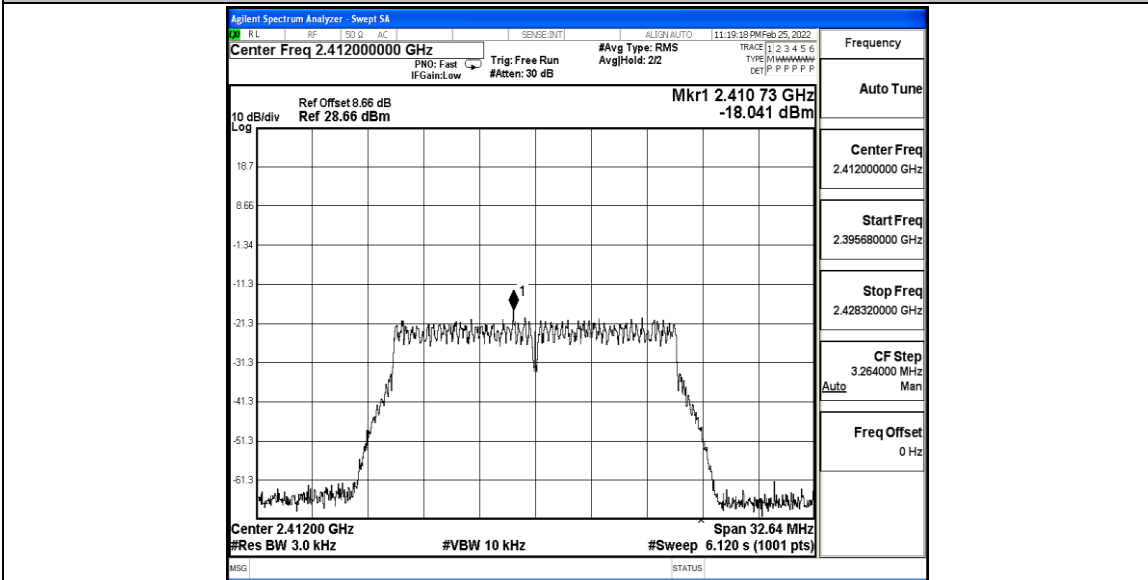


### Test Graphs

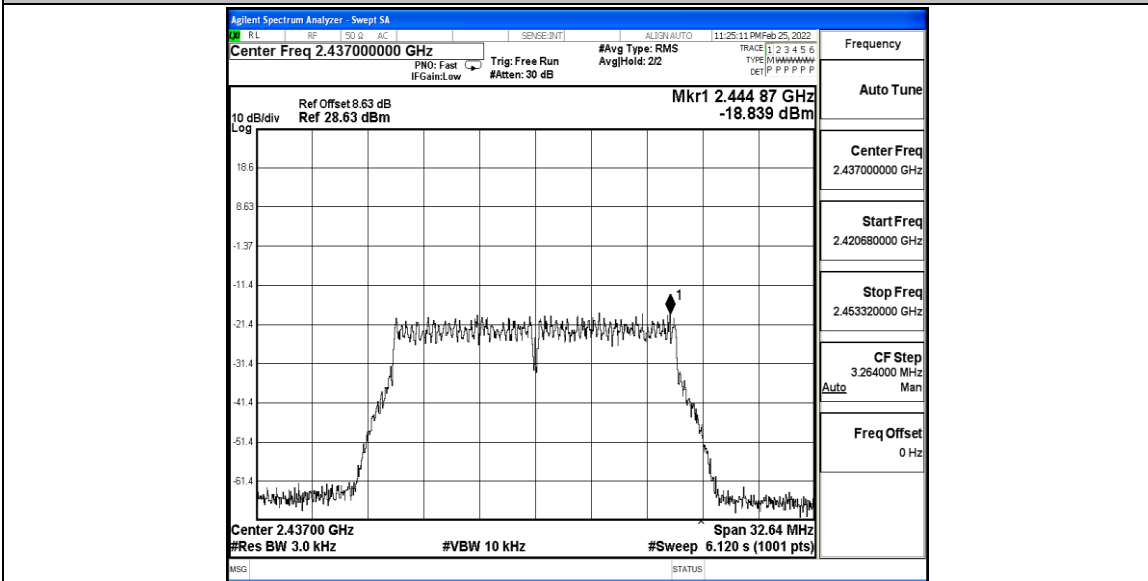




11G\_Ant1\_2412

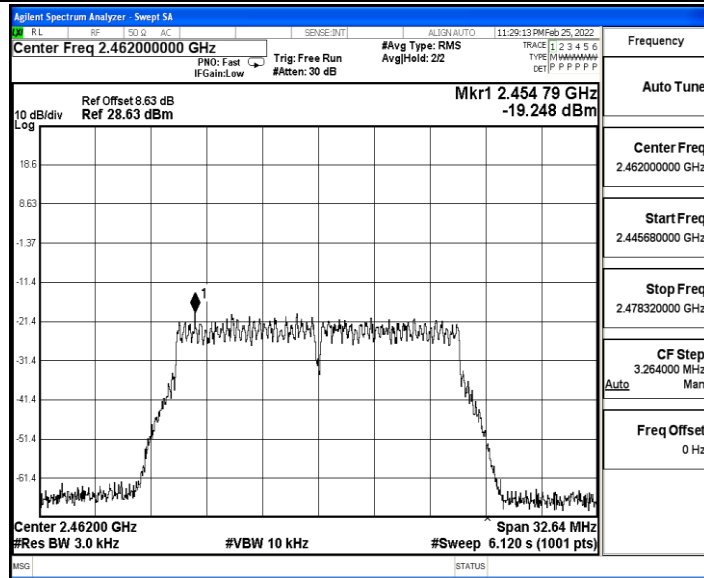


11G\_Ant1\_2437

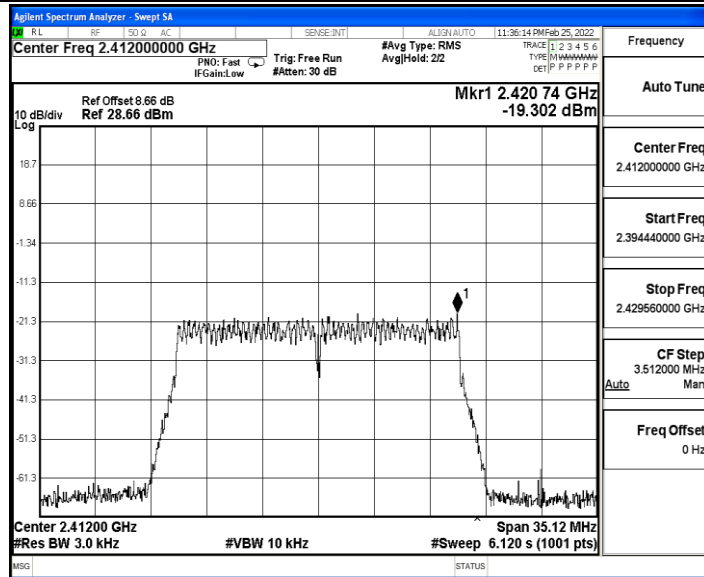




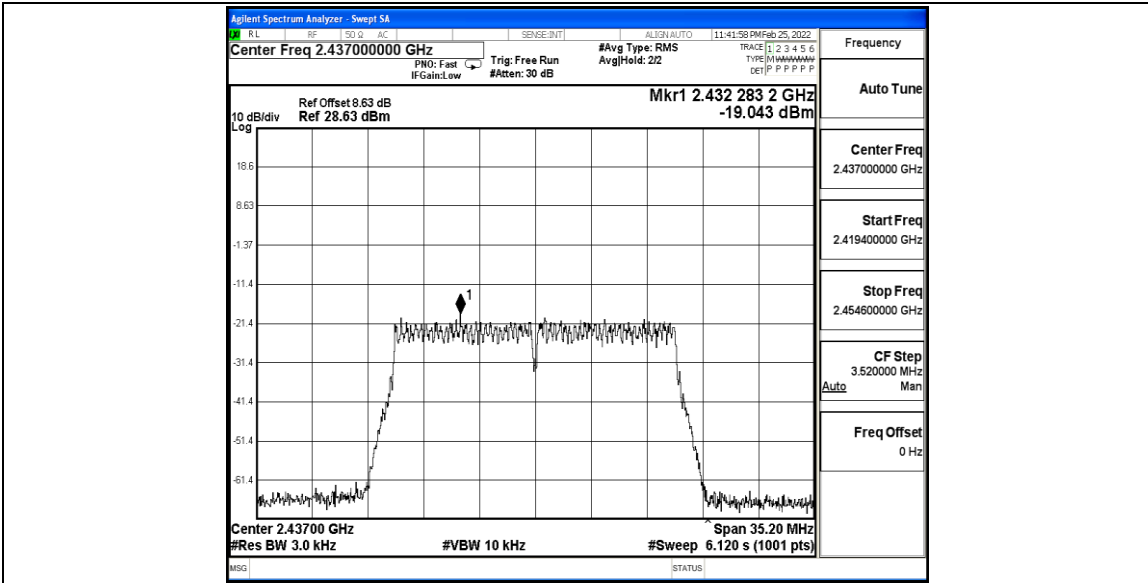
11G\_Ant1\_2462



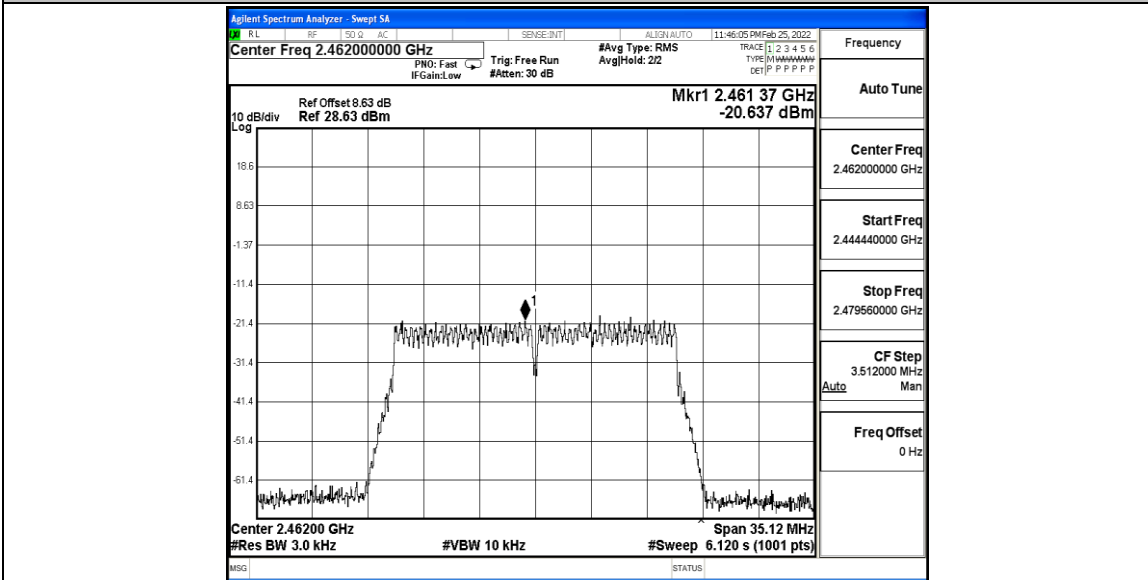
11N20SISO\_Ant1\_2412



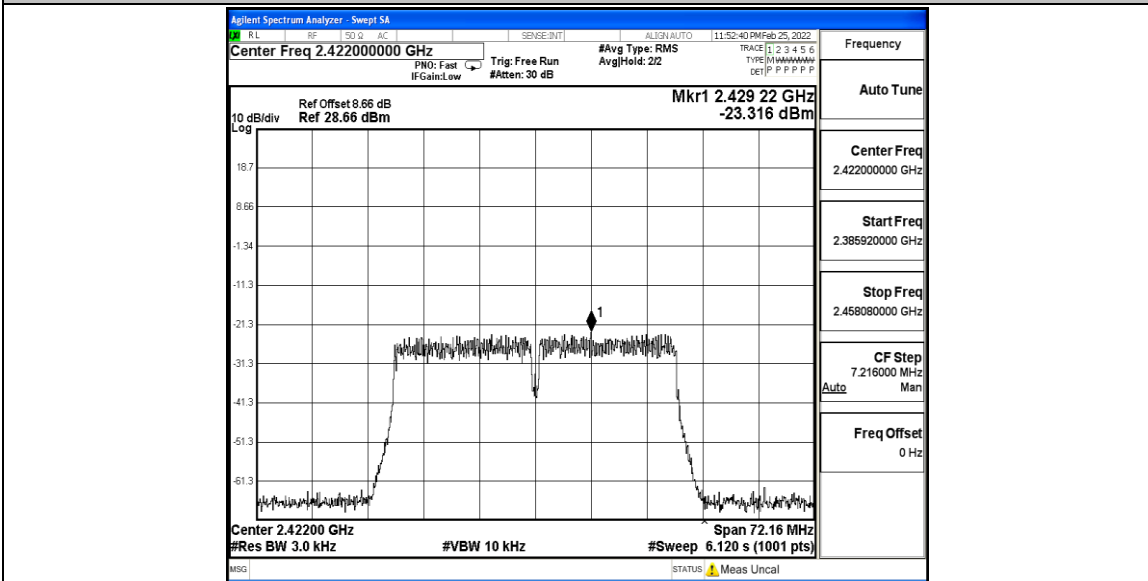
11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462

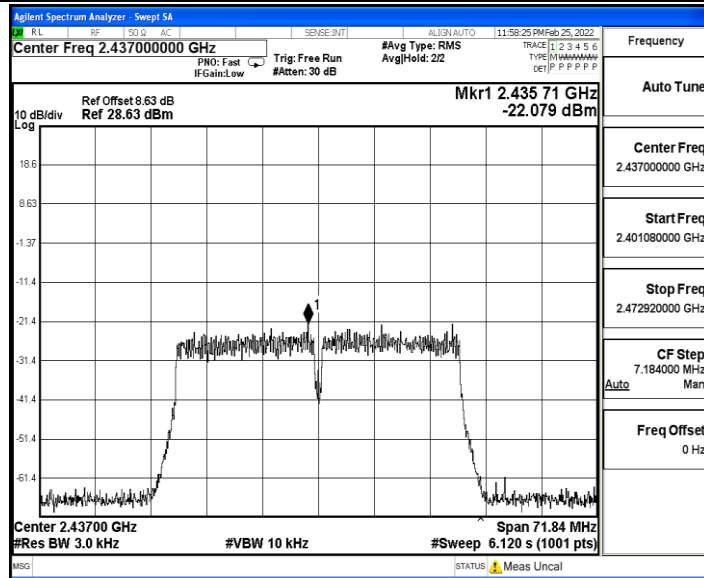


11N40SISO\_Ant1\_2422

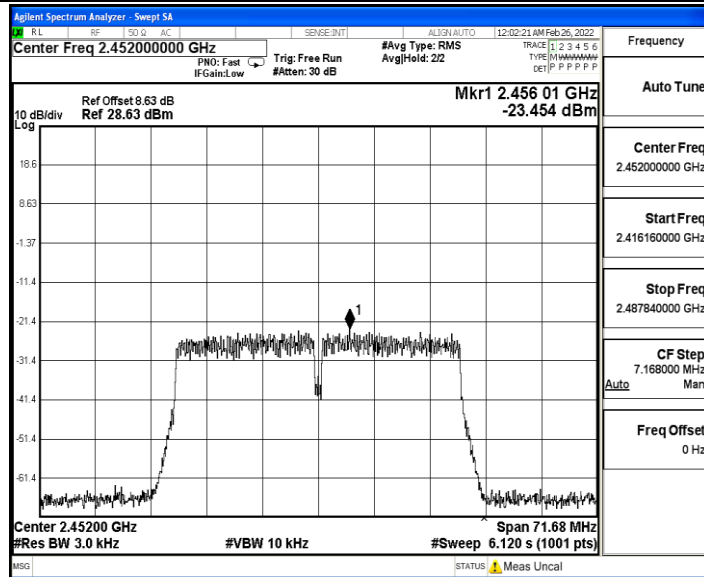




11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452





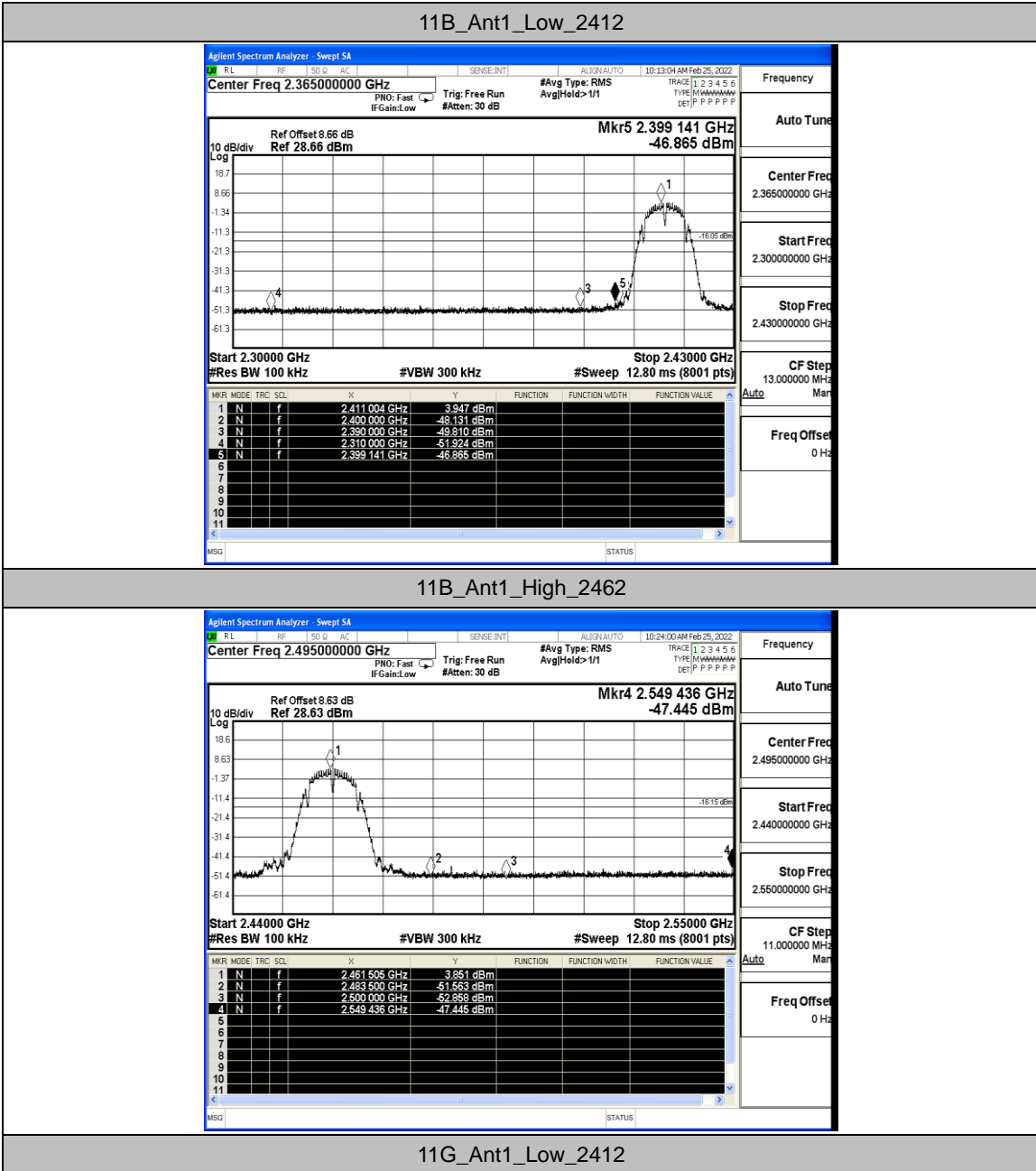
## B.4 Band edge measurements

### Test Result

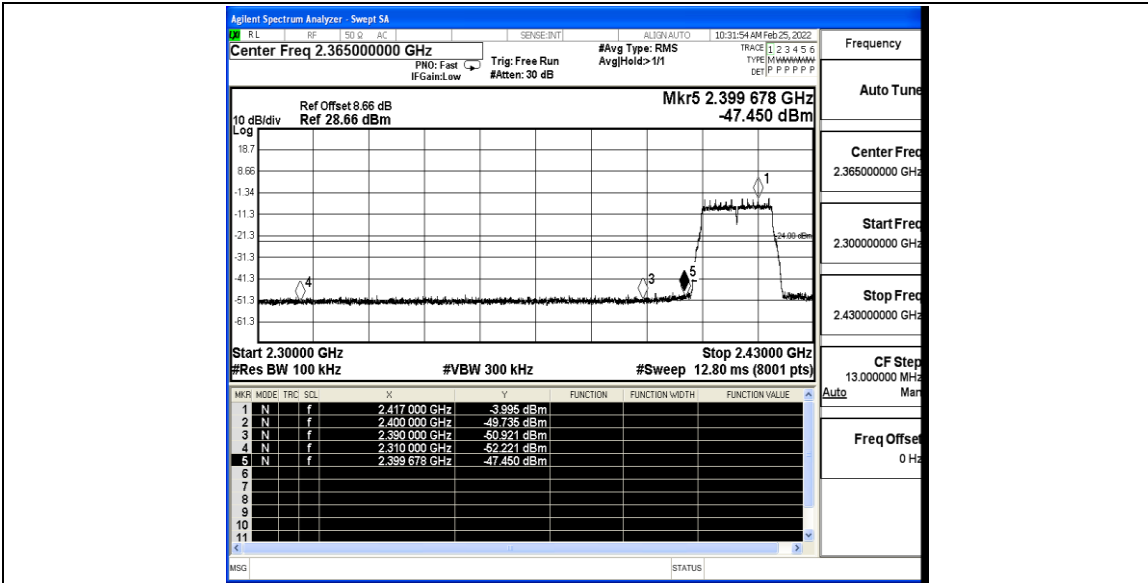
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.95	-46.87	≤-16.05	PASS
		High	2462	3.85	-47.45	≤-16.15	PASS
11G	Ant1	Low	2412	-4.00	-47.45	≤-24	PASS
		High	2462	-3.78	-46.82	≤-23.78	PASS
11N20SISO	Ant1	Low	2412	-4.62	-47.58	≤-24.62	PASS
		High	2462	-4.05	-45.52	≤-24.05	PASS
11N40SISO	Ant1	Low	2422	-8.06	-47.53	≤-28.06	PASS
		High	2452	-7.56	-48.07	≤-27.56	PASS



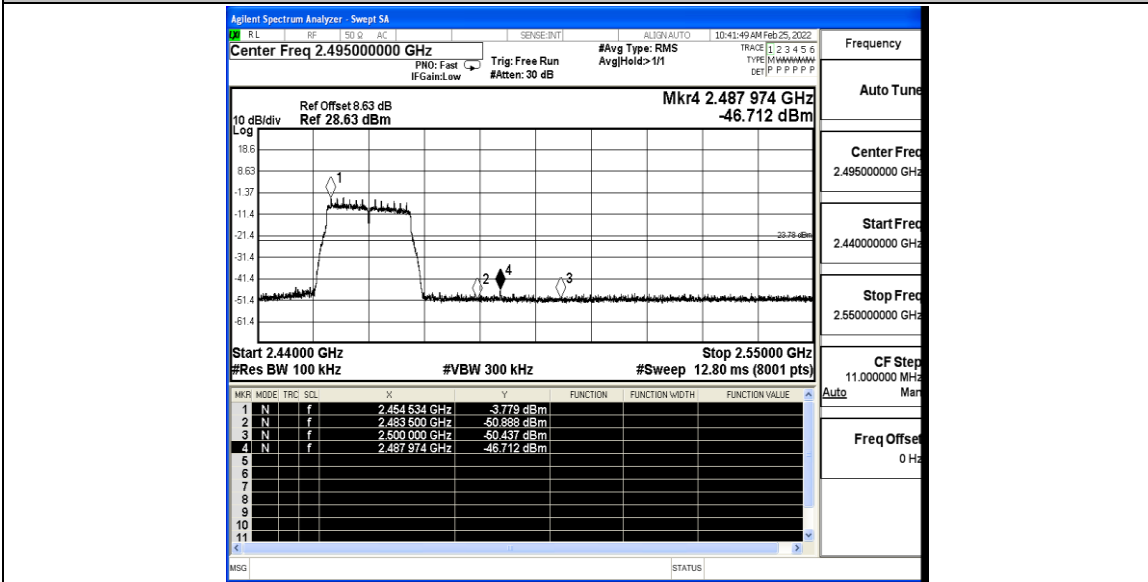
### Test Graphs



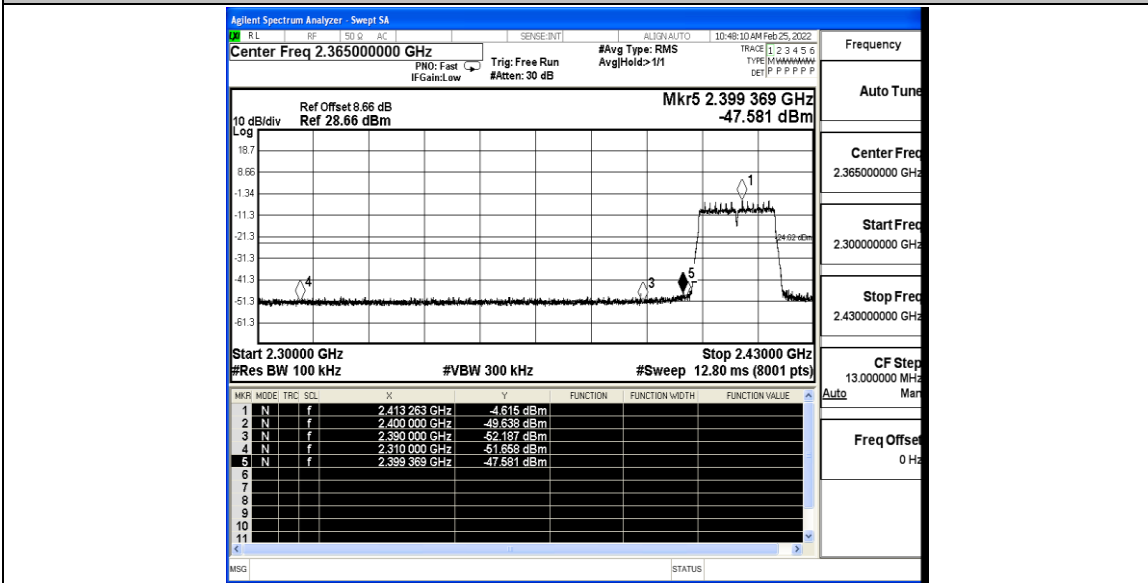




11G\_Ant1\_High\_2462

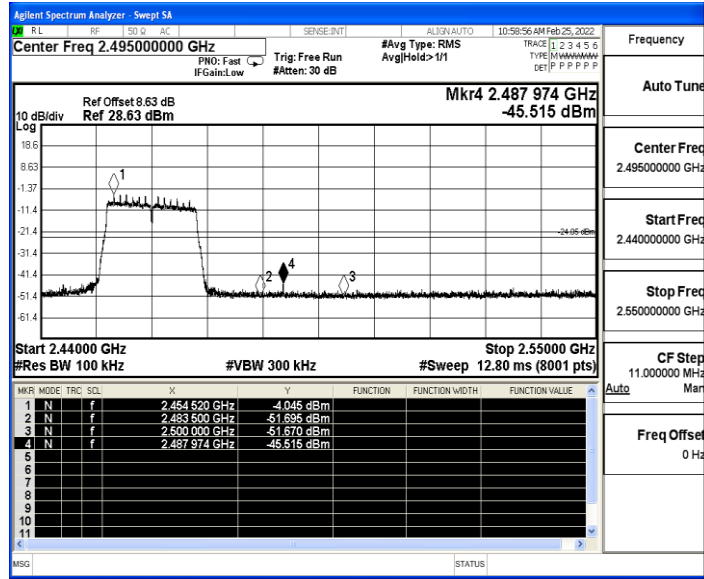


11N20SISO\_Ant1\_Low\_2412

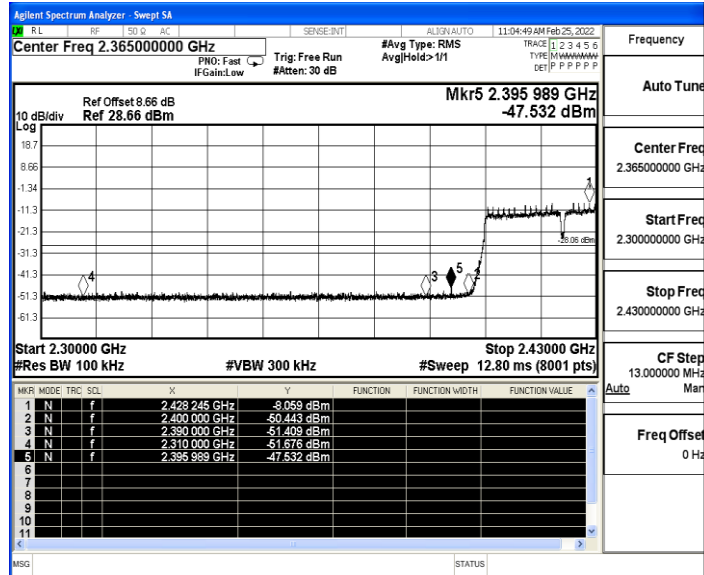




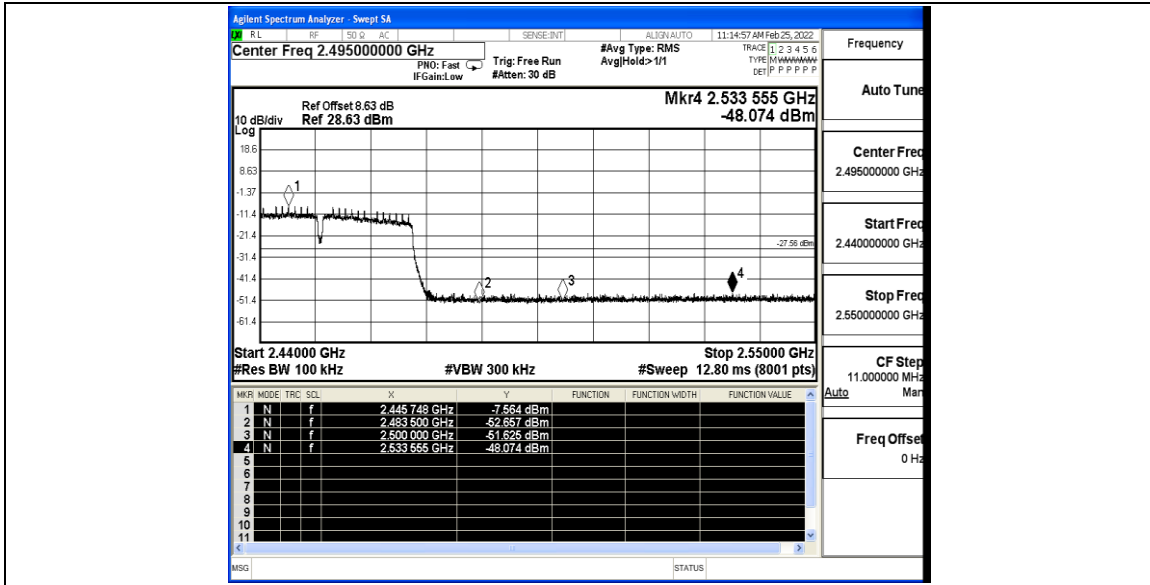
### 11N20SISO\_Ant1\_High\_2462



### 11N40SISO\_Ant1\_Low\_2422



### 11N40SISO\_Ant1\_High\_2452





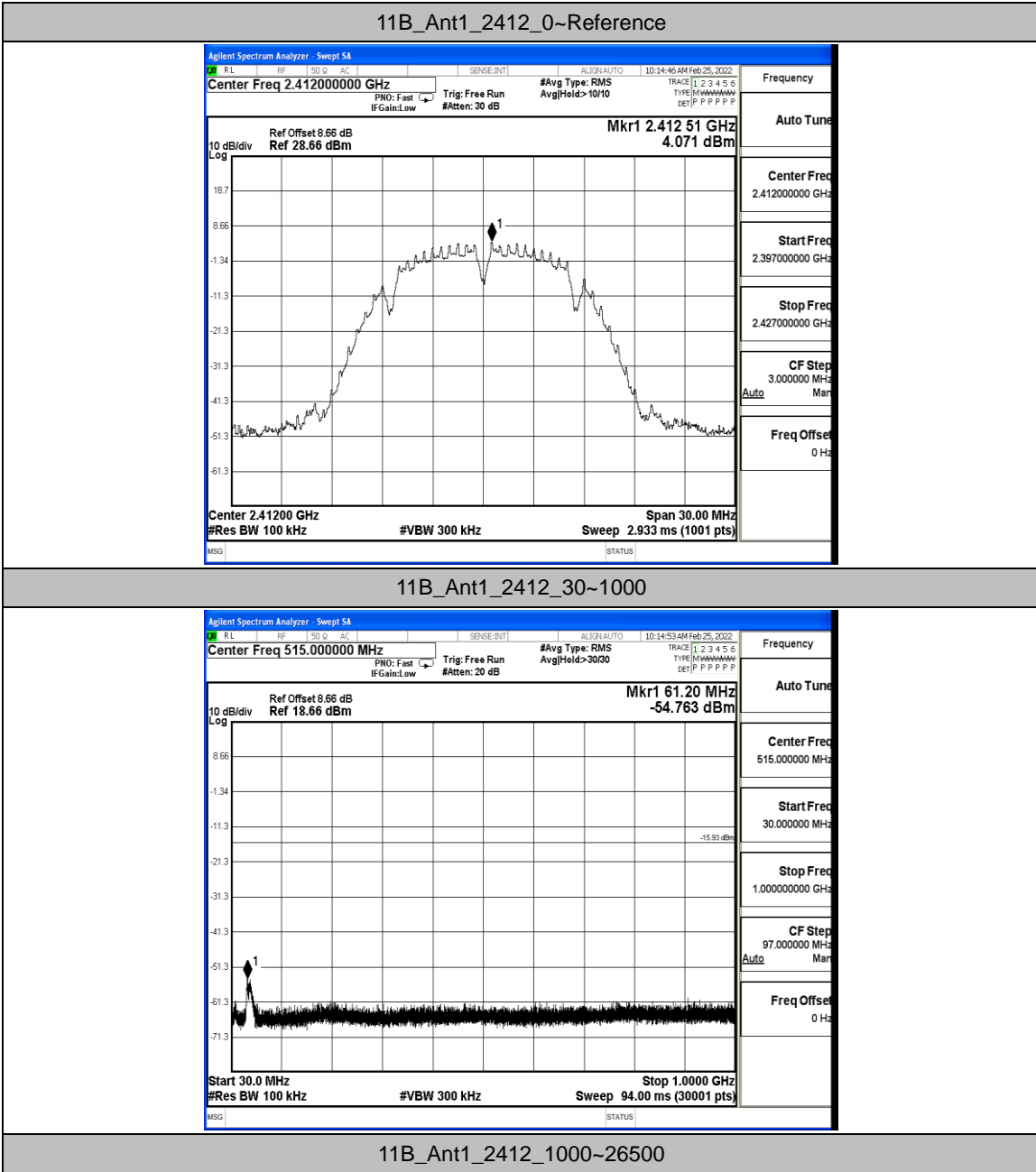
## B.5 Conducted Spurious Emission

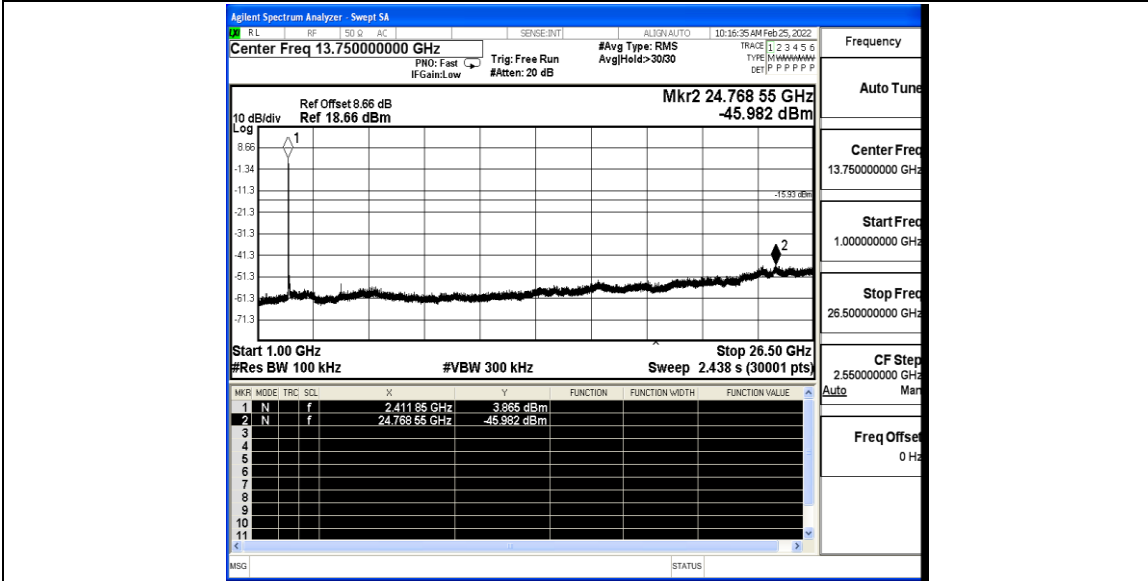
### Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.07	4.07	---	PASS
			30~1000	4.07	-54.76	≤-15.93	PASS
			1000~26500	4.07	-45.98	≤-15.93	PASS
		2437	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-38.77	≤-15.74	PASS
			1000~26500	4.26	-45.56	≤-15.74	PASS
		2462	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-54.03	≤-16.41	PASS
			1000~26500	3.59	-45.83	≤-16.41	PASS
11G	Ant1	2412	Reference	-3.96	-3.96	---	PASS
			30~1000	-3.96	-58.83	≤-23.96	PASS
			1000~26500	-3.96	-45.8	≤-23.96	PASS
		2437	Reference	-3.33	-3.33	---	PASS
			30~1000	-3.33	-57.29	≤-23.33	PASS
			1000~26500	-3.33	-45.77	≤-23.33	PASS
		2462	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-37.72	≤-23.51	PASS
			1000~26500	-3.51	-45.75	≤-23.51	PASS
11N20SISO	Ant1	2412	Reference	-4.62	-4.62	---	PASS
			30~1000	-4.62	-57.53	≤-24.62	PASS
			1000~26500	-4.62	-46.35	≤-24.62	PASS
		2437	Reference	-3.79	-3.79	---	PASS
			30~1000	-3.79	-58.26	≤-23.79	PASS
			1000~26500	-3.79	-46.25	≤-23.79	PASS
		2462	Reference	-4.26	-4.26	---	PASS
			30~1000	-4.26	-58.44	≤-24.26	PASS
			1000~26500	-4.26	-45.48	≤-24.26	PASS
11N40SISO	Ant1	2422	Reference	-7.00	-7.00	---	PASS
			30~1000	-7.00	-57.38	≤-27	PASS
			1000~26500	-7.00	-45.46	≤-27	PASS
		2437	Reference	-7.52	-7.52	---	PASS
			30~1000	-7.52	-40.63	≤-27.52	PASS
			1000~26500	-7.52	-45.4	≤-27.52	PASS
		2452	Reference	-7.54	-7.54	---	PASS
			30~1000	-7.54	-57.78	≤-27.54	PASS
			1000~26500	-7.54	-46.26	≤-27.54	PASS

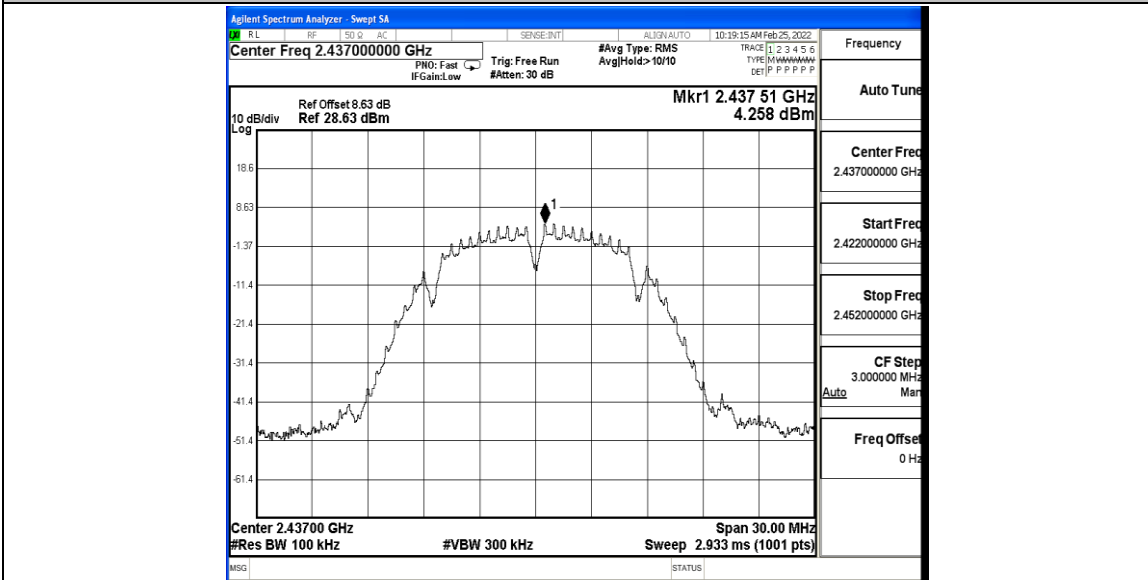


### Test Graphs

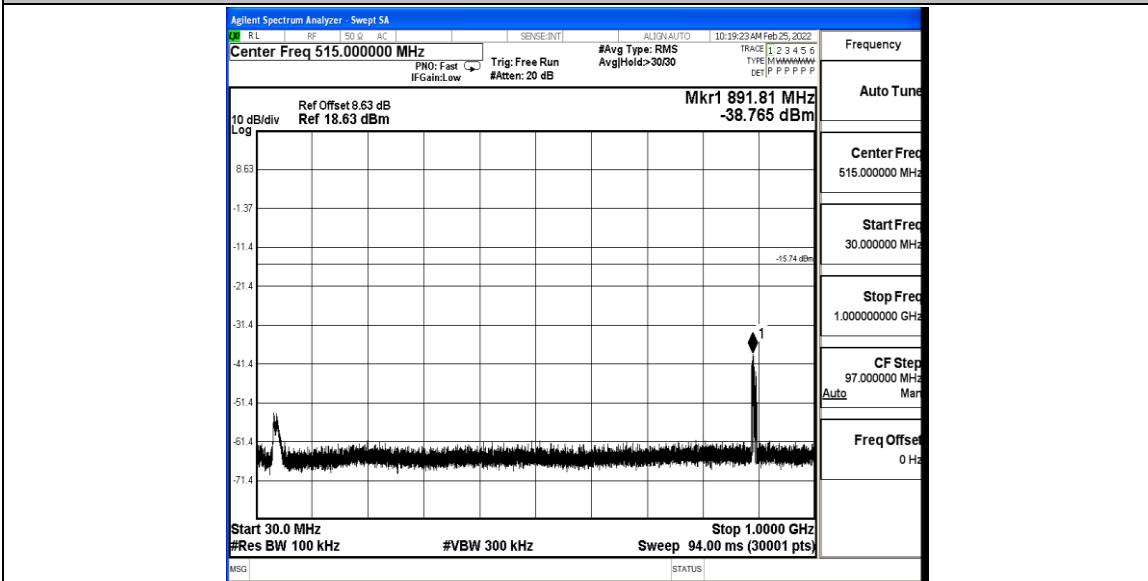




11B\_Ant1\_2437\_0~Reference

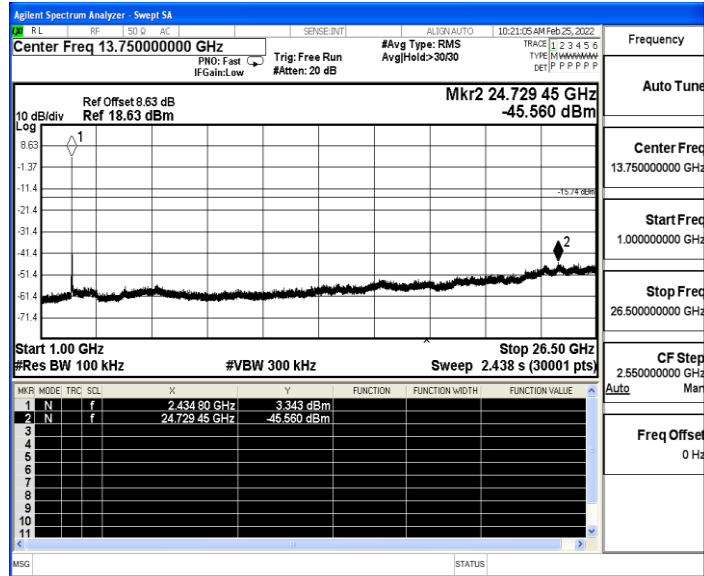


11B\_Ant1\_2437\_30~1000

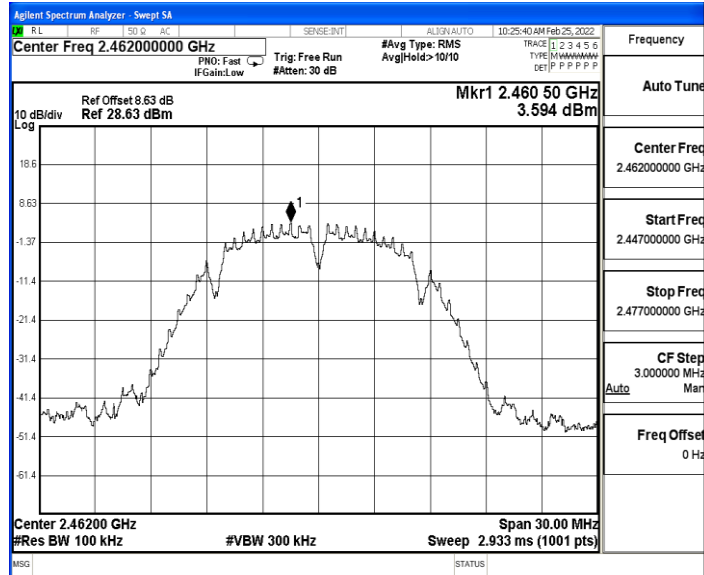




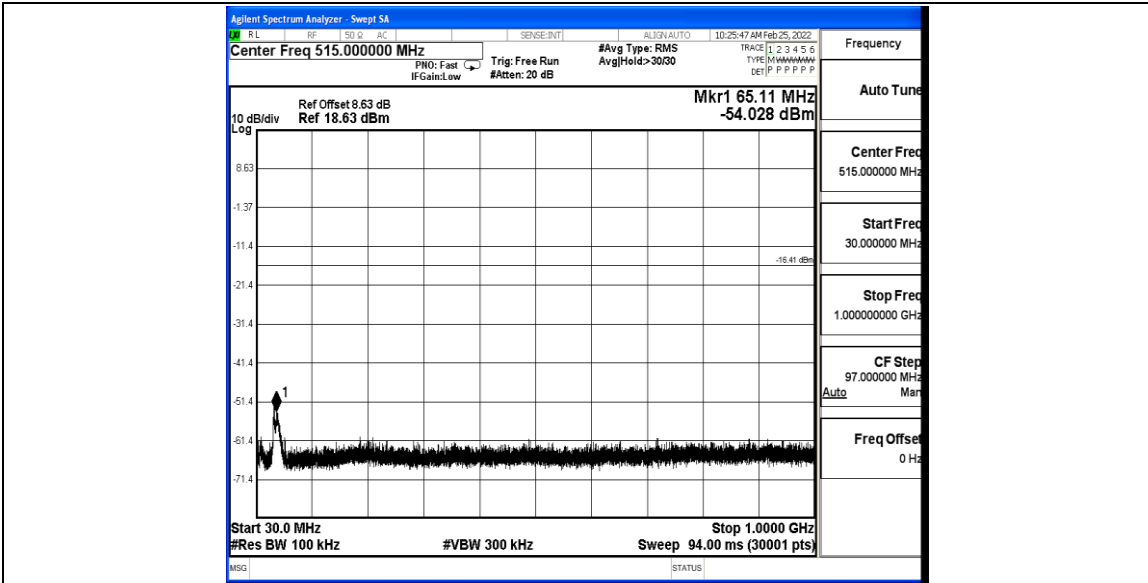
11B\_Ant1\_2437\_1000~26500



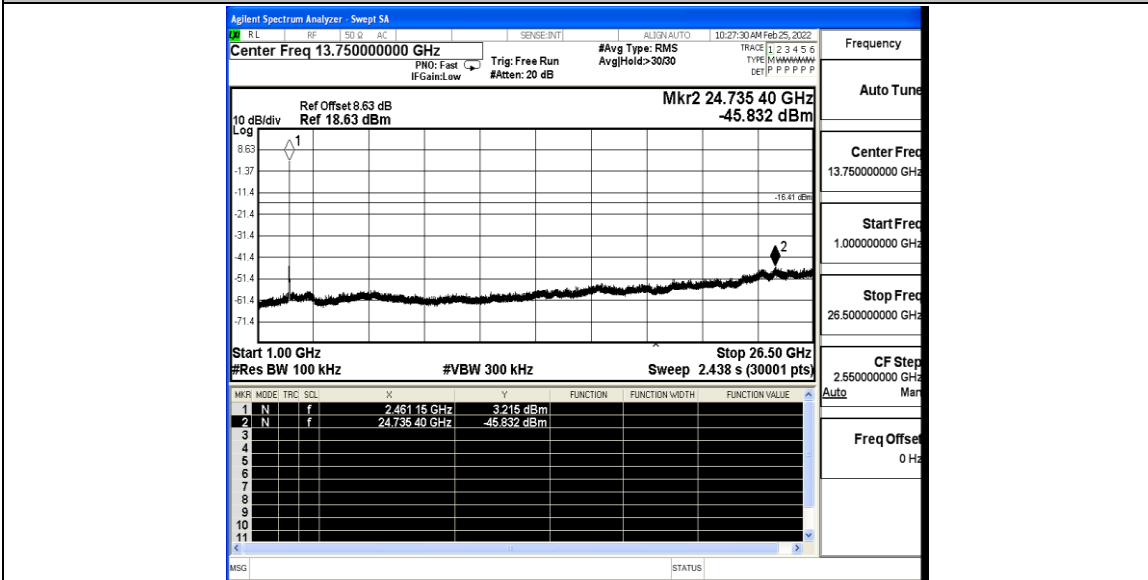
11B\_Ant1\_2462\_0~Reference



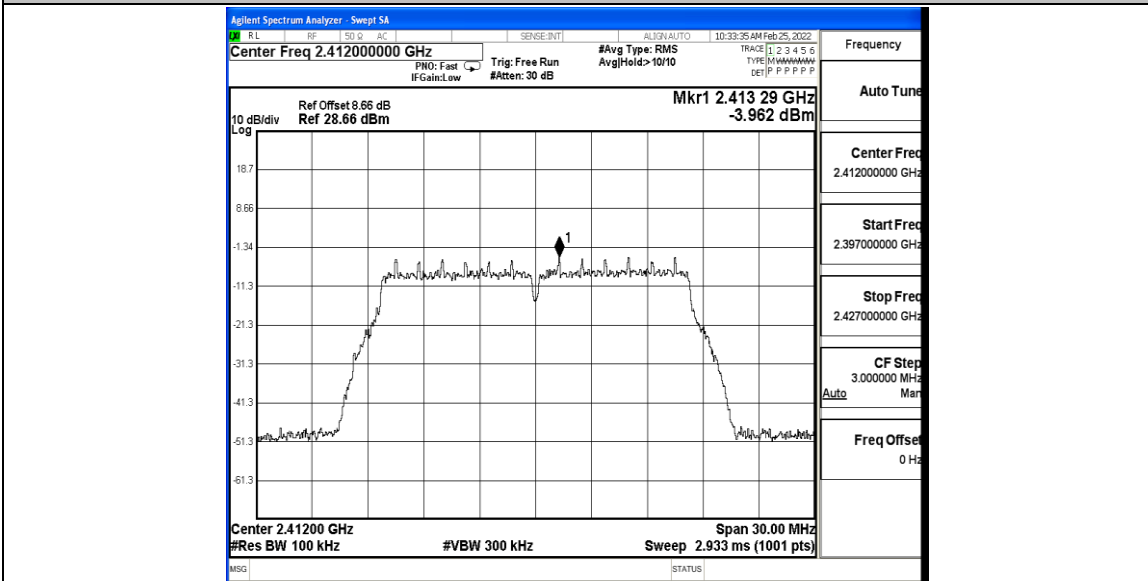
11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500



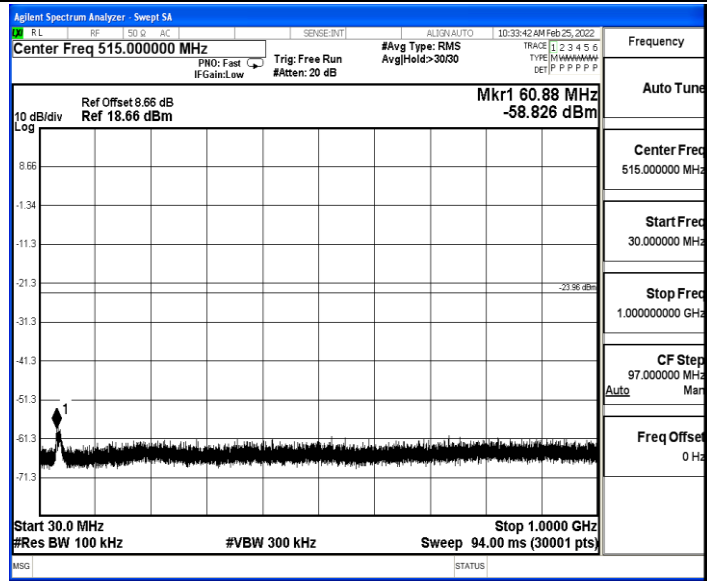
11G\_Ant1\_2412\_0~Reference



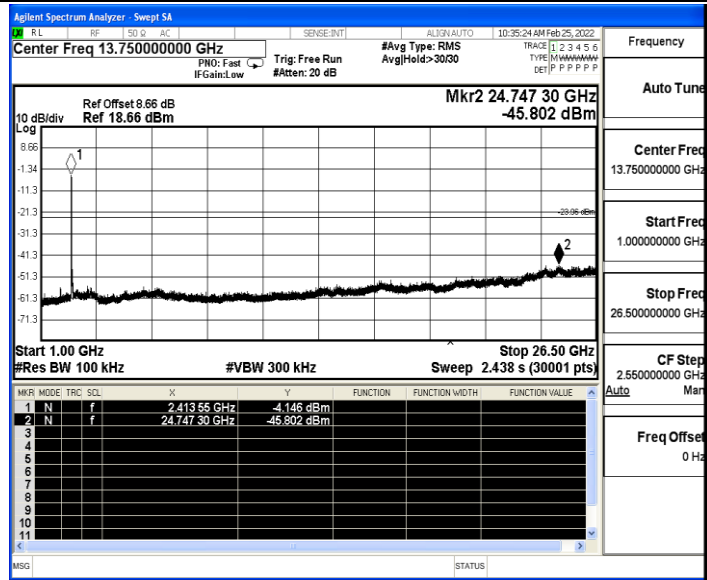




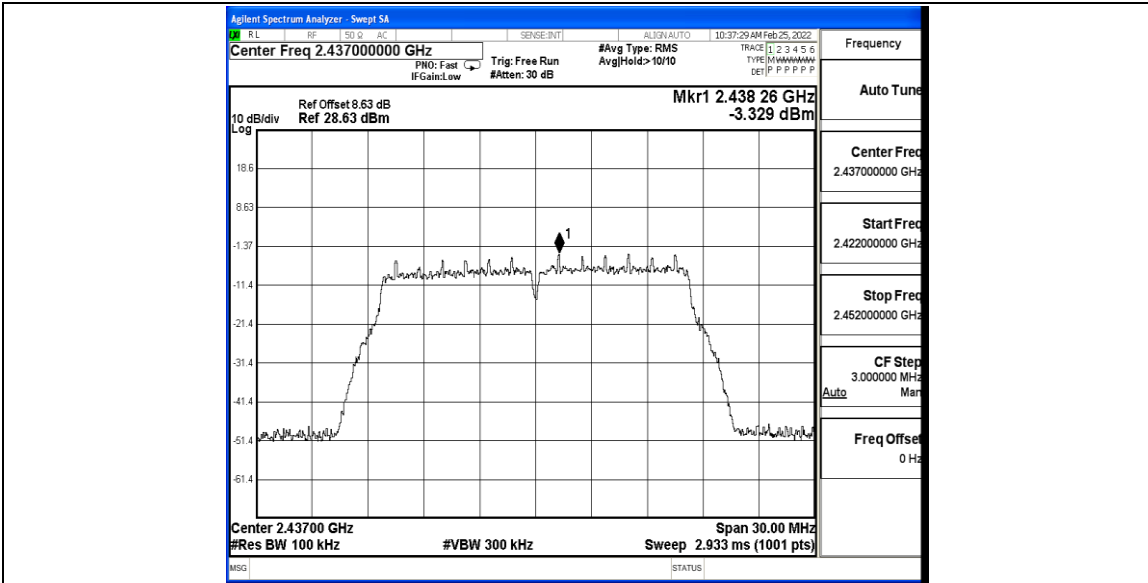
11G\_Ant1\_2412\_30~1000



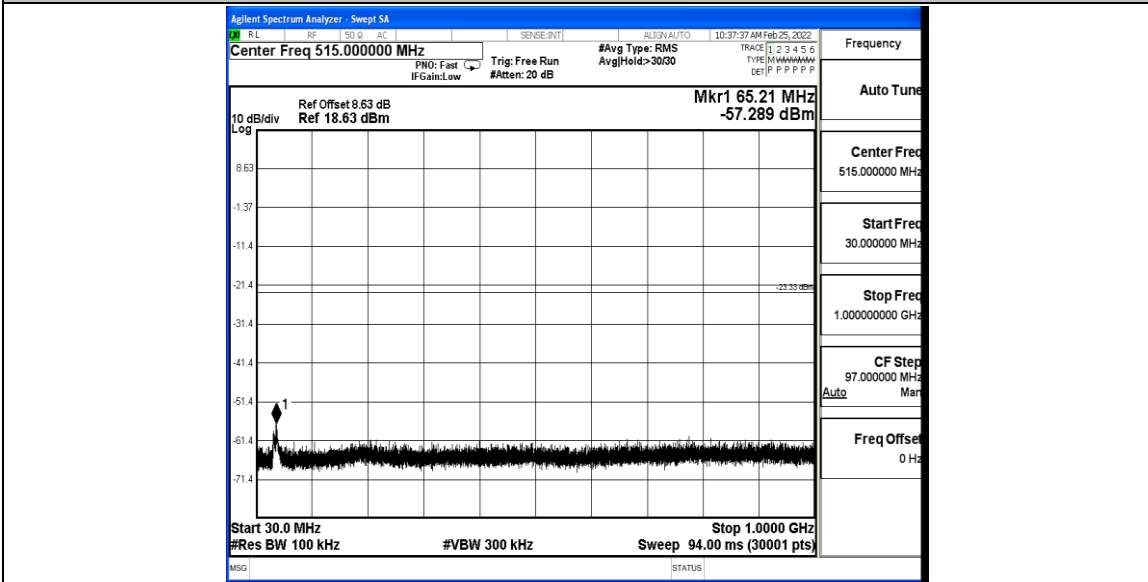
11G\_Ant1\_2412\_1000~26500



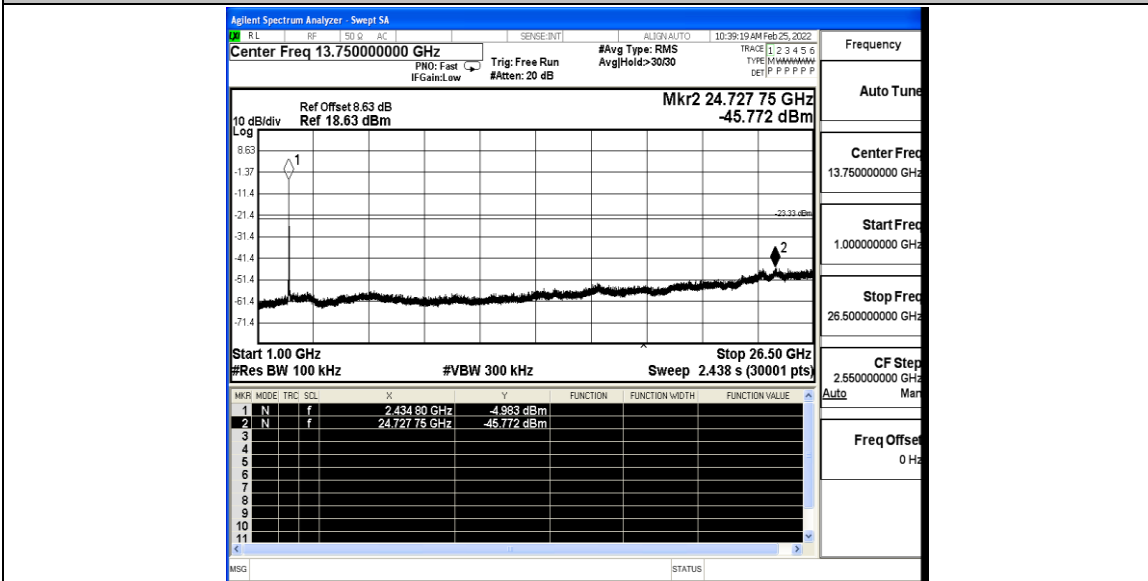
11G\_Ant1\_2437\_0~Reference



11G\_Ant1\_2437\_30~1000

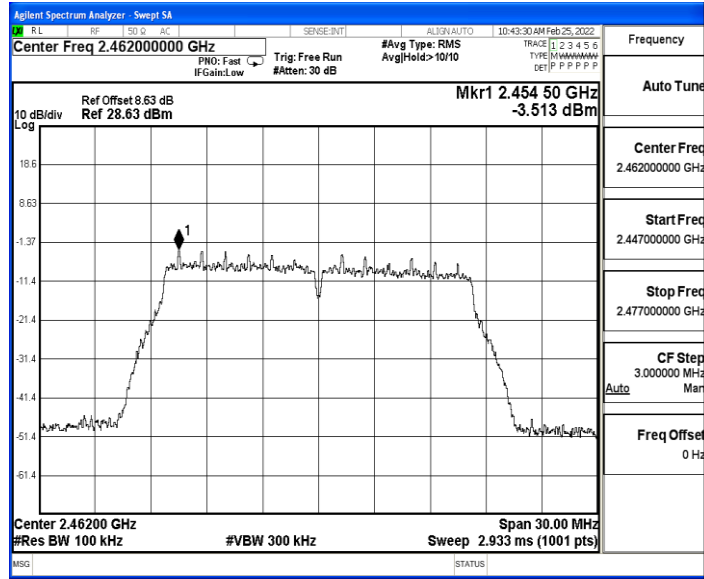


11G\_Ant1\_2437\_1000~26500

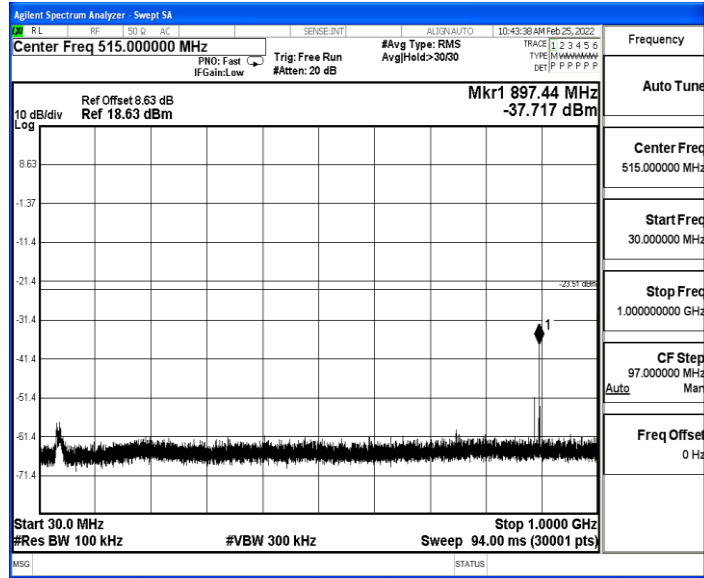




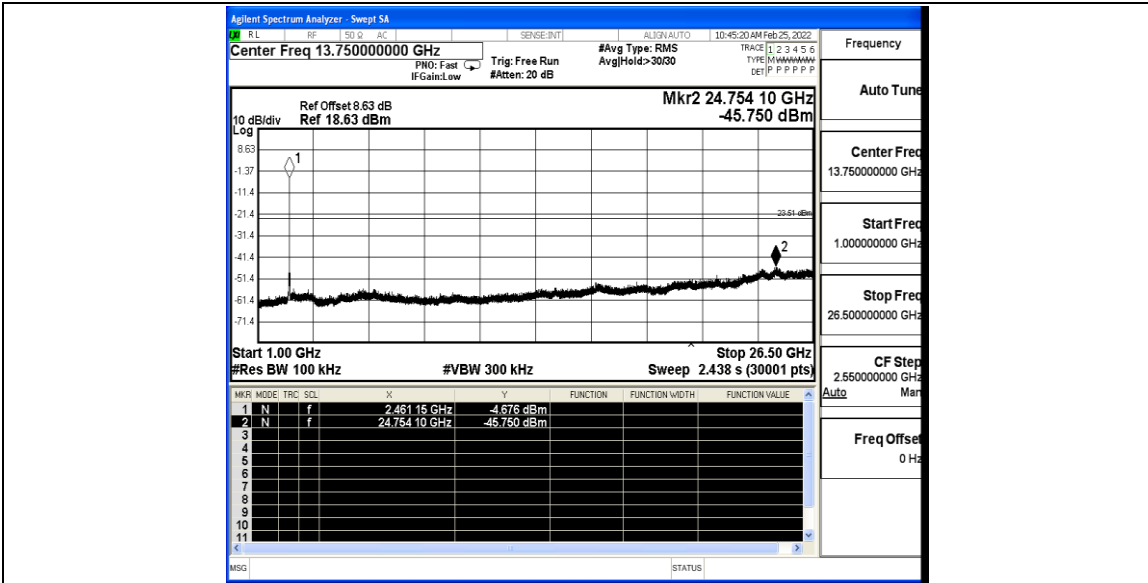
11G\_Ant1\_2462\_0~Reference



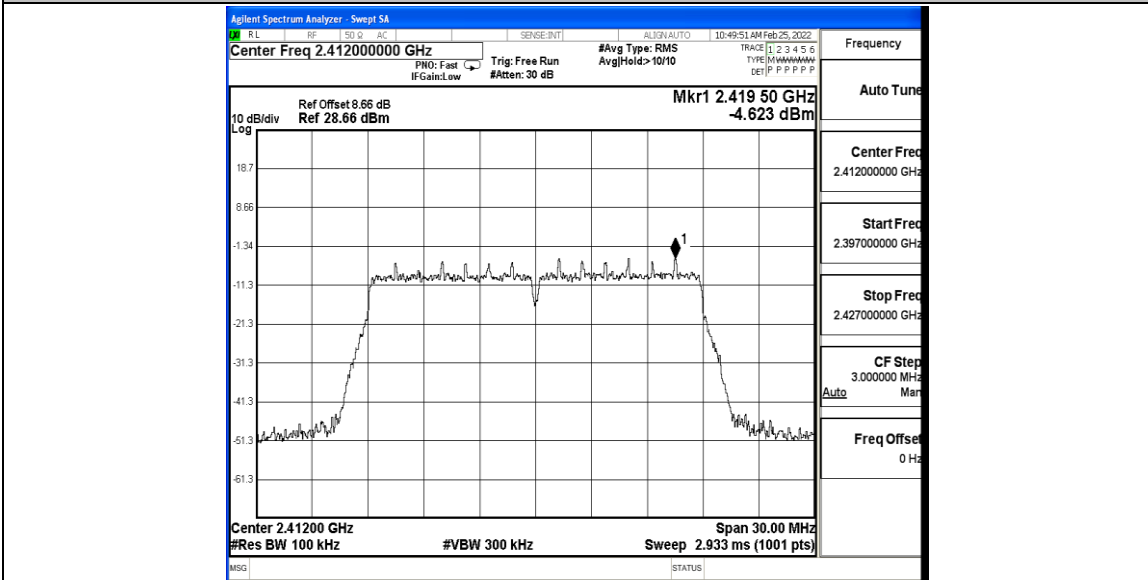
11G\_Ant1\_2462\_30~1000



11G\_Ant1\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_0-Reference



11N20SISO\_Ant1\_2412\_30-1000

