



## Appendix C

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

**Product Name: POS Terminal**

**Test Model: P1000**

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan





### C.1 6dB Bandwidth

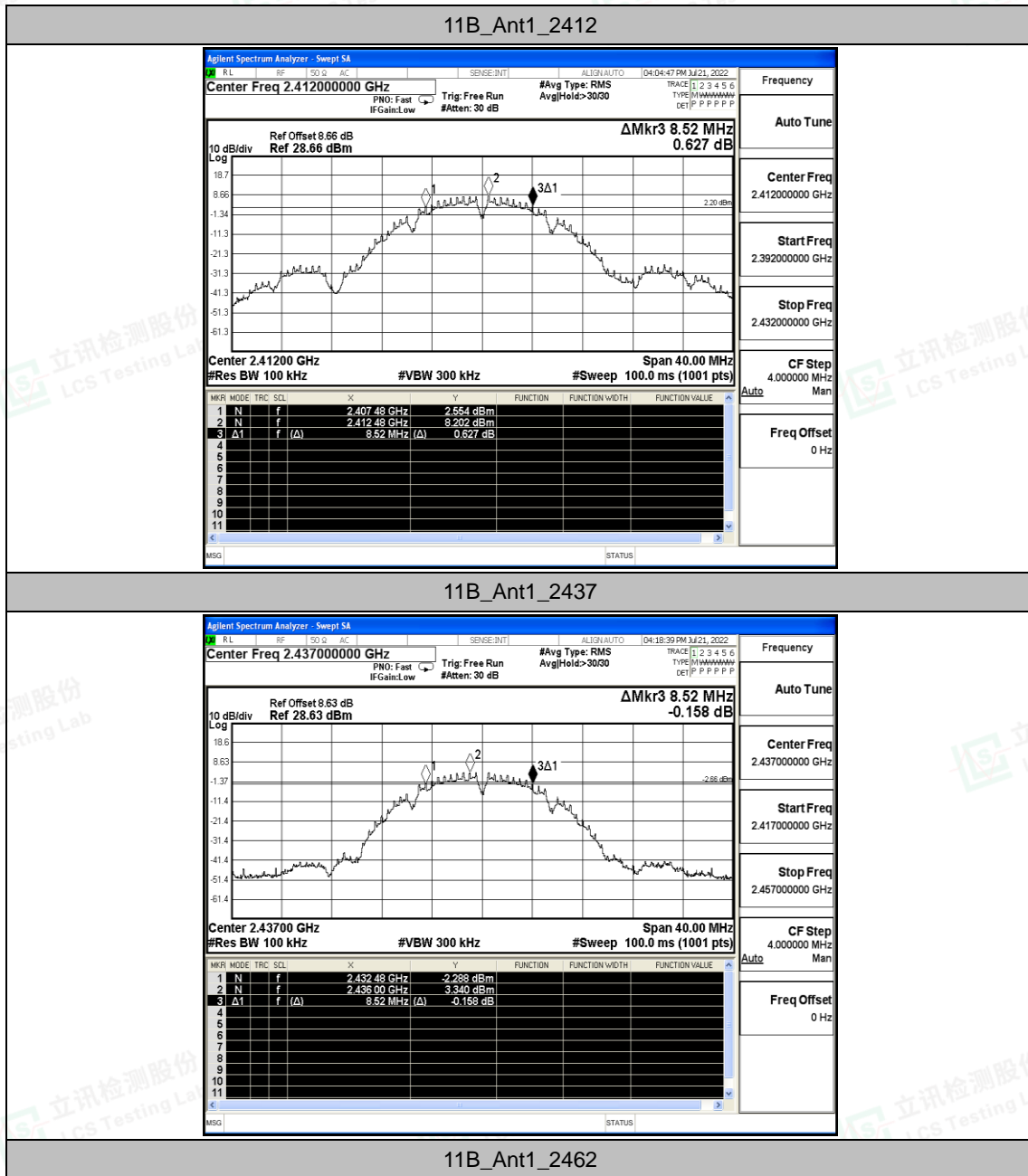
#### Test Result

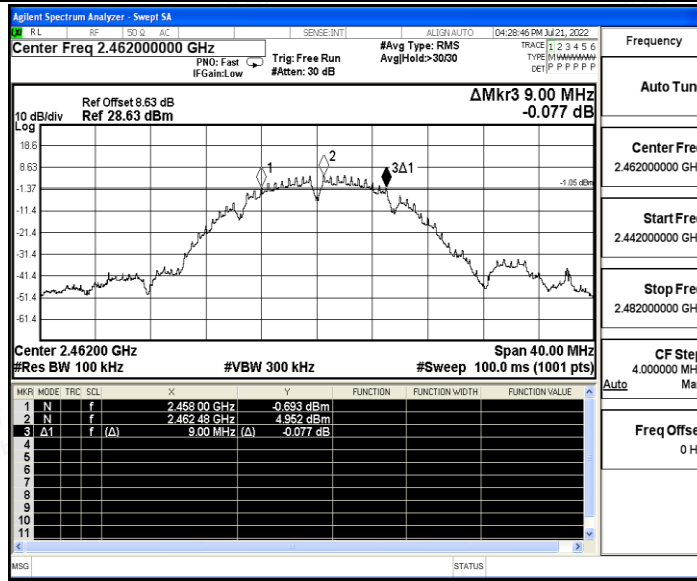
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.520	2407.480	2416.000	0.5	PASS
		2437	8.520	2432.480	2441.000	0.5	PASS
		2462	9.000	2458.000	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	15.720	2428.840	2444.560	0.5	PASS
		2462	15.680	2454.480	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
		2437	16.520	2428.240	2444.760	0.5	PASS
		2462	16.360	2454.440	2470.800	0.5	PASS



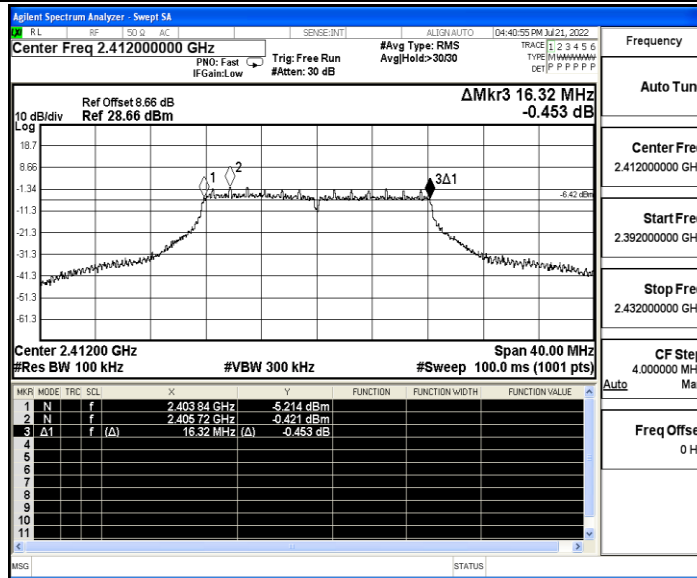


### Test Graphs



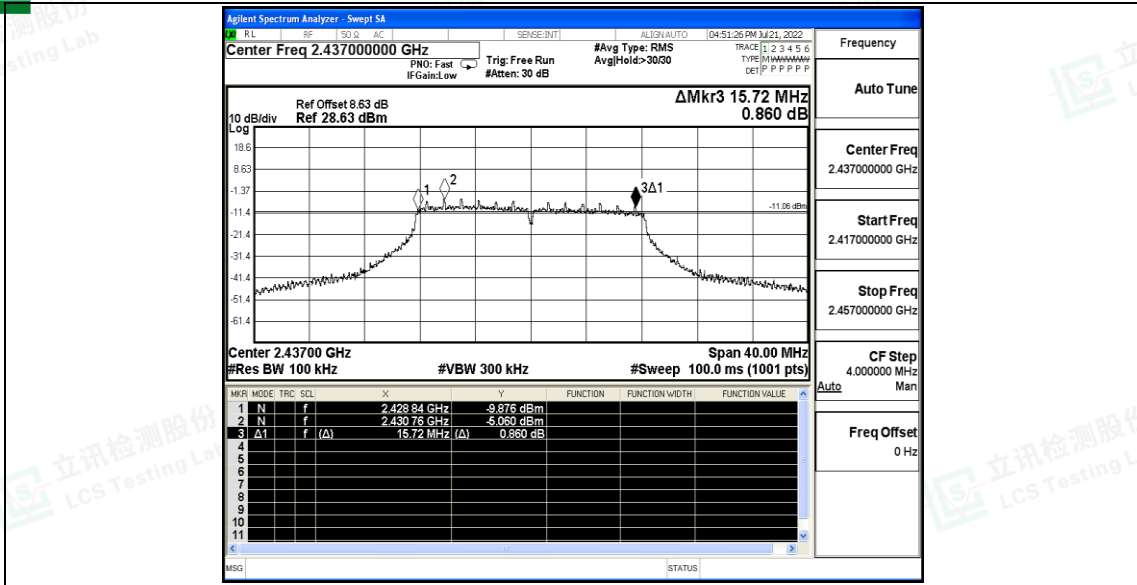


11G\_Ant1\_2412

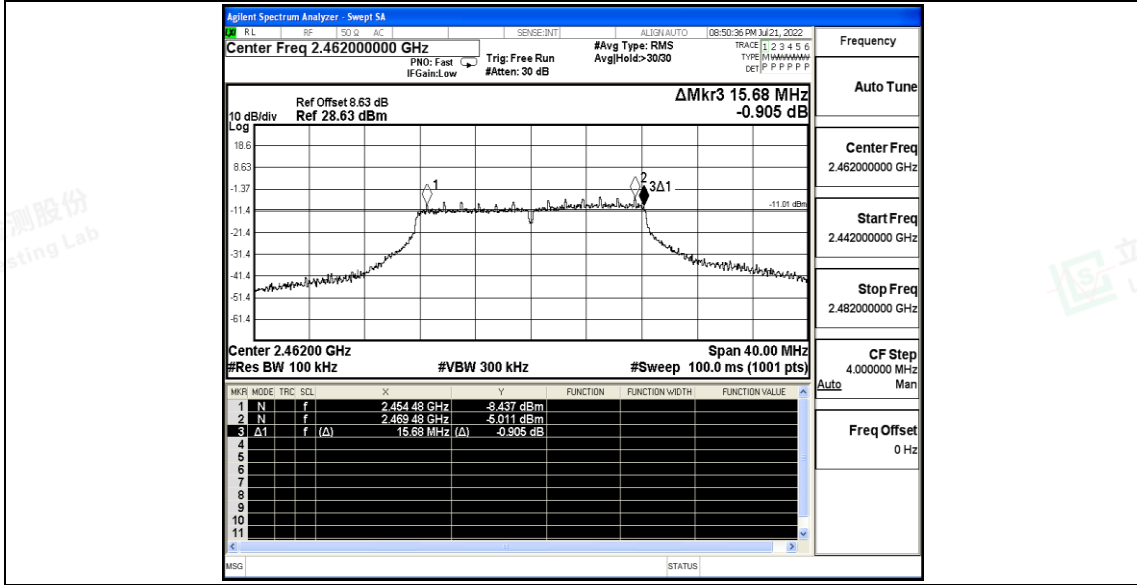


11G\_Ant1\_2437



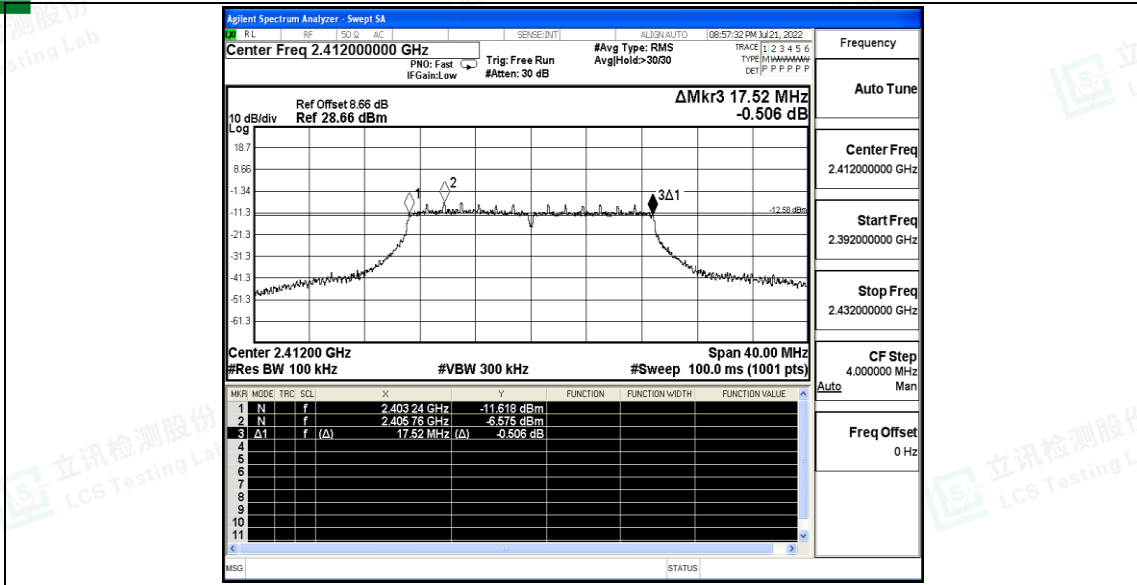


11G\_Ant1\_2462

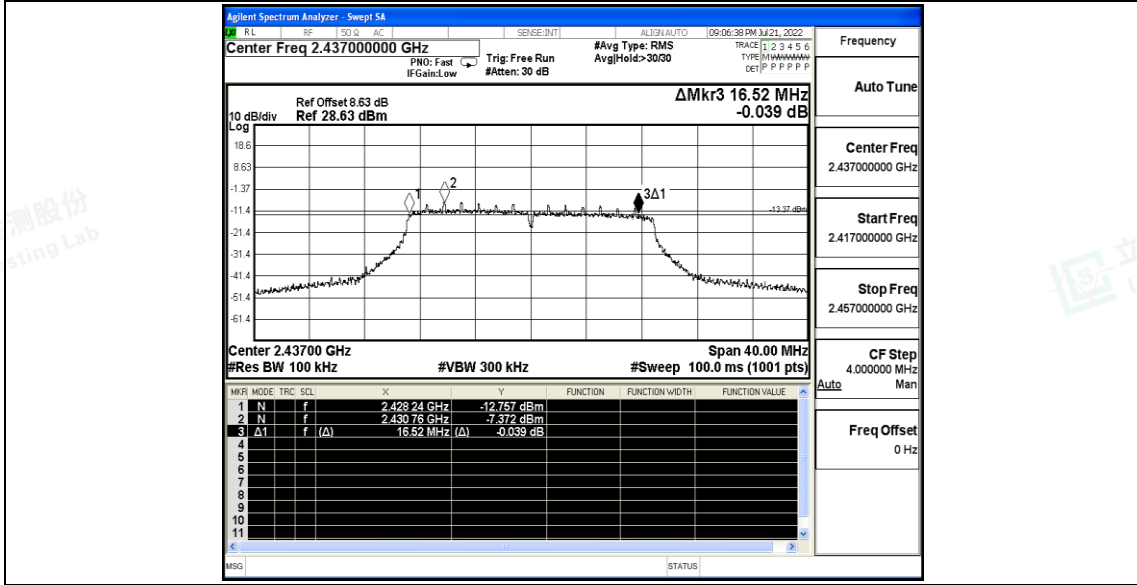


11N20SISO\_Ant1\_2412



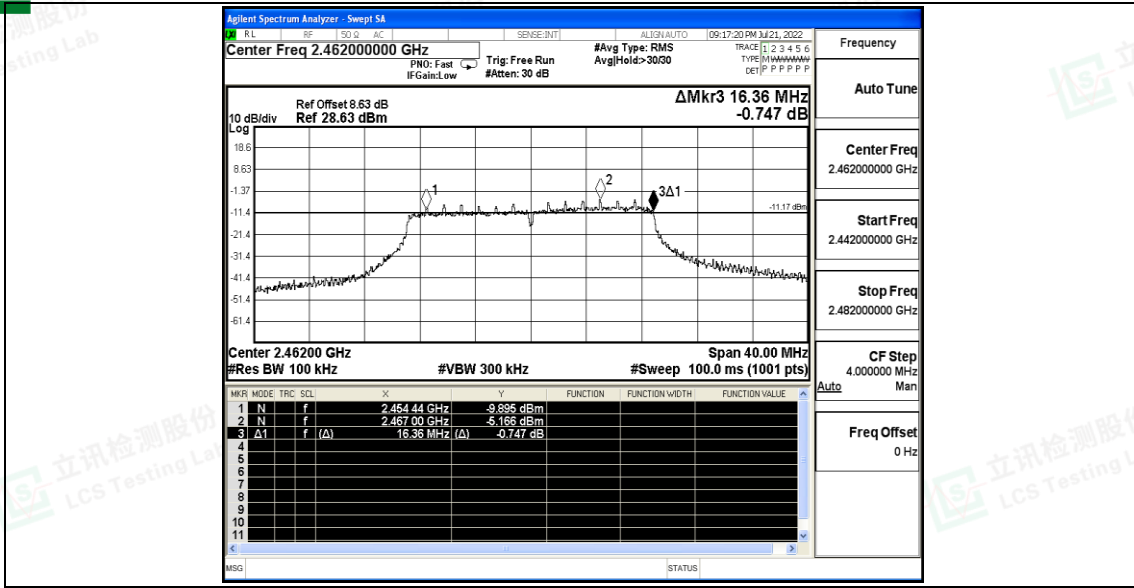


11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462







## C.2 Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	15.05	≤30.00	PASS
		2437	15.33	≤30.00	PASS
		2462	15.38	≤30.00	PASS
11G	Ant1	2412	14.39	≤30.00	PASS
		2437	14.45	≤30.00	PASS
		2462	13.19	≤30.00	PASS
11N20SISO	Ant1	2412	12.35	≤30.00	PASS
		2437	11.25	≤30.00	PASS
		2462	13.05	≤30.00	PASS







### C.3 Maximum power spectral density

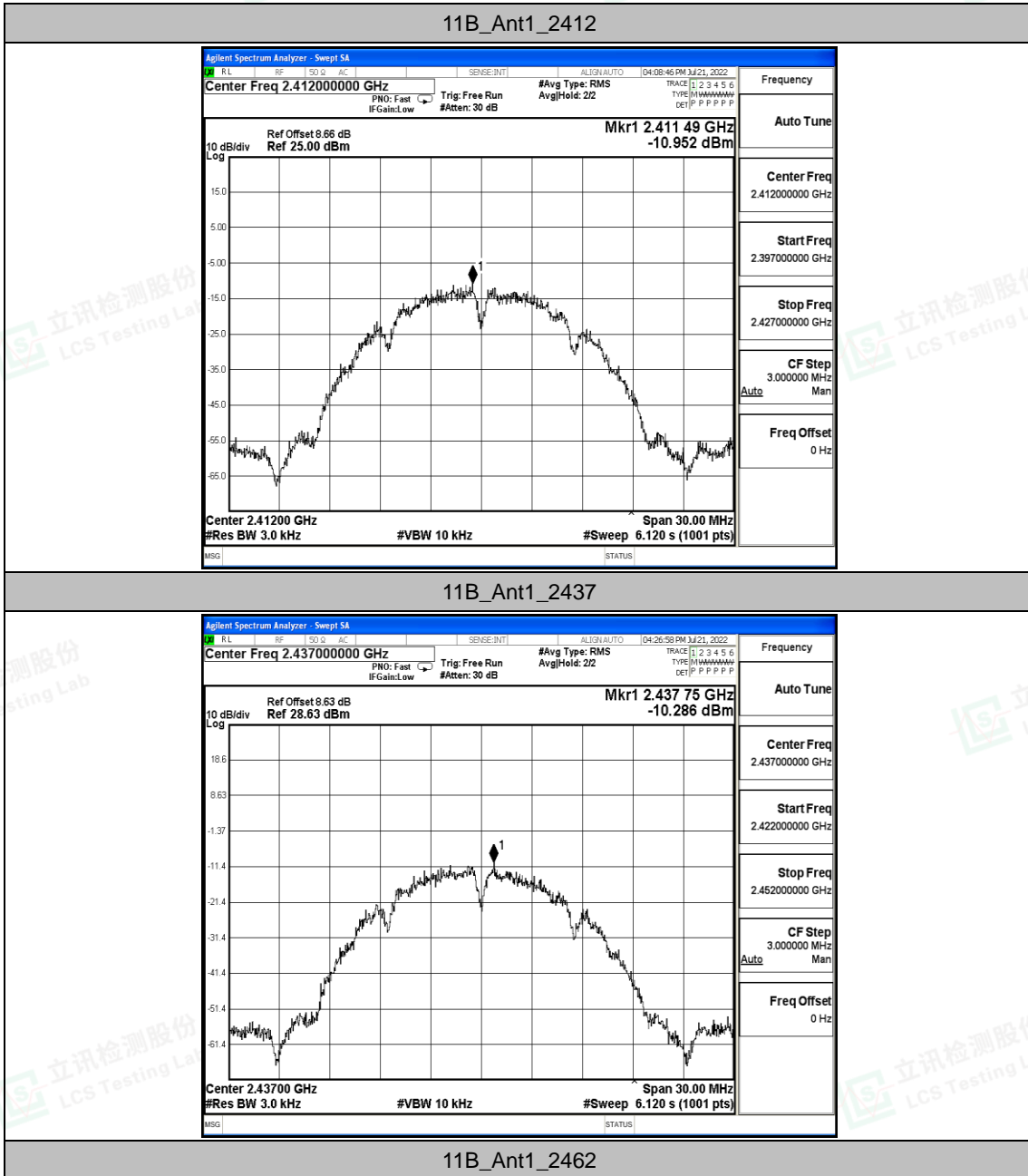
#### Test Result

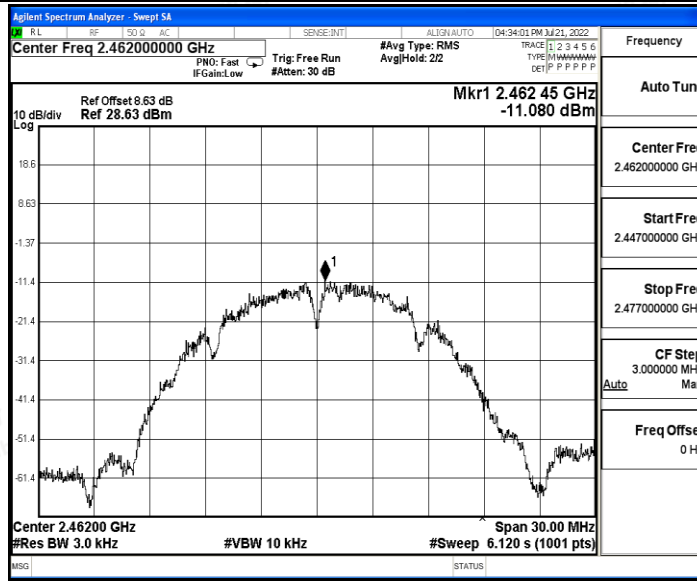
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.95	≤8.00	PASS
		2437	-10.29	≤8.00	PASS
		2462	-11.08	≤8.00	PASS
11G	Ant1	2412	-19.42	≤8.00	PASS
		2437	-18.88	≤8.00	PASS
		2462	-19.63	≤8.00	PASS
11N20SISO	Ant1	2412	-20.36	≤8.00	PASS
		2437	-21.41	≤8.00	PASS
		2462	-17.58	≤8.00	PASS



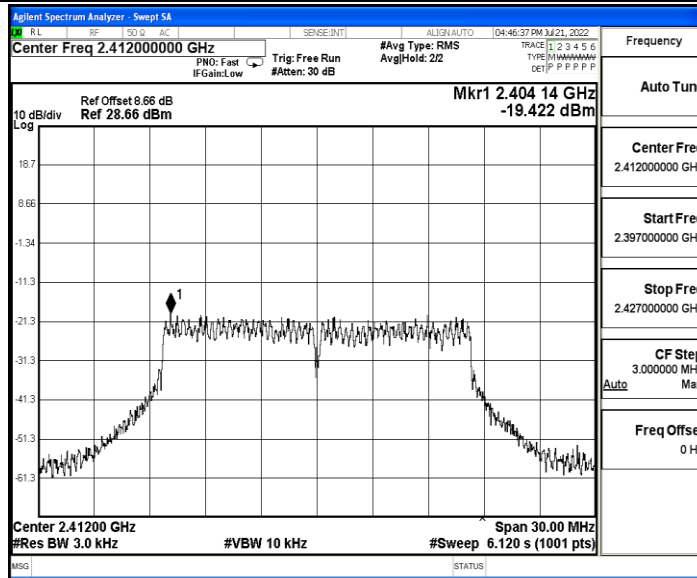


### Test Graphs



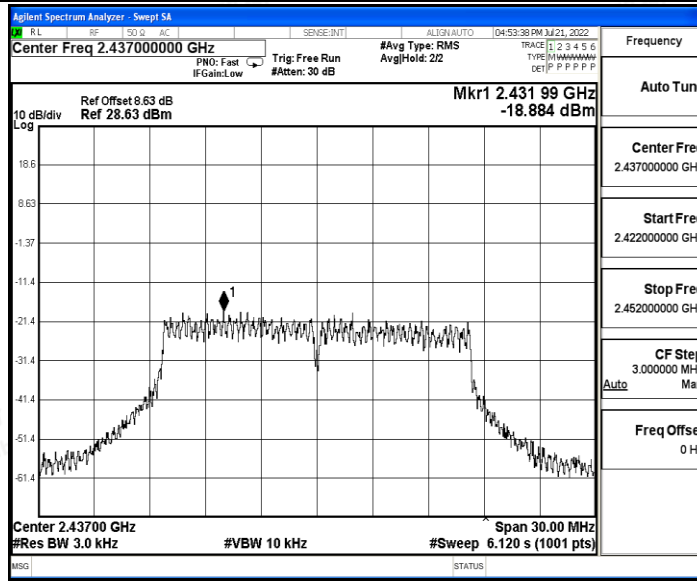


11G\_Ant1\_2412

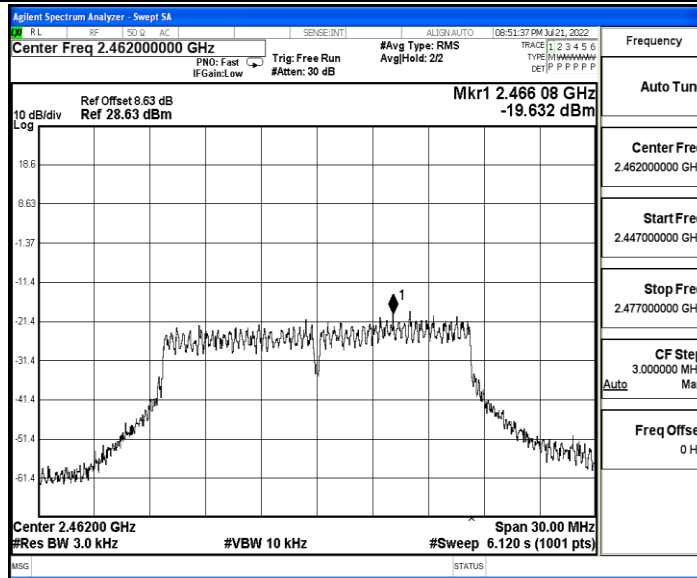


11G\_Ant1\_2437



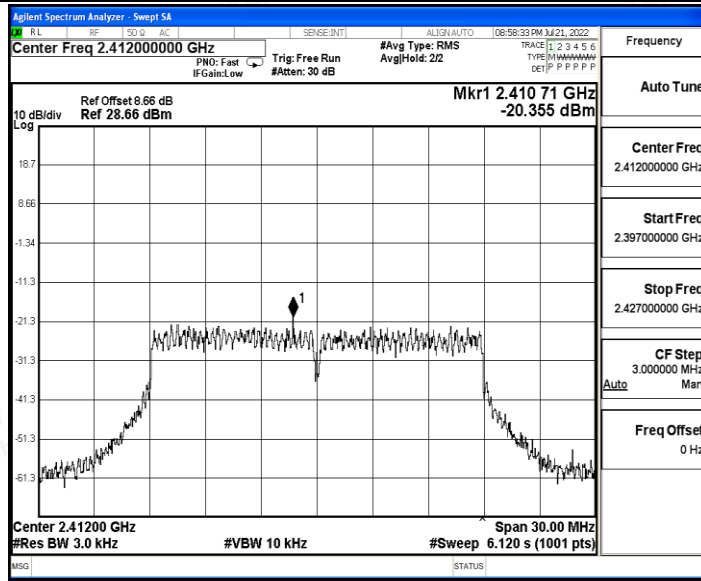


11G\_Ant1\_2462

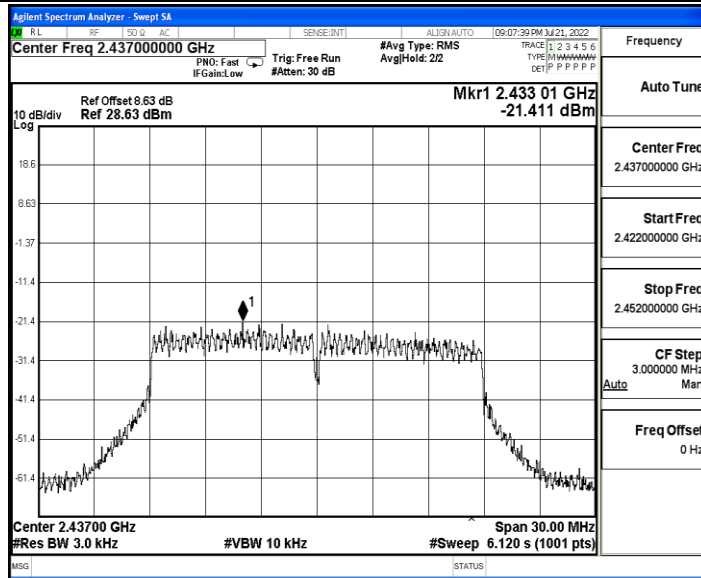


11N20SISO\_Ant1\_2412



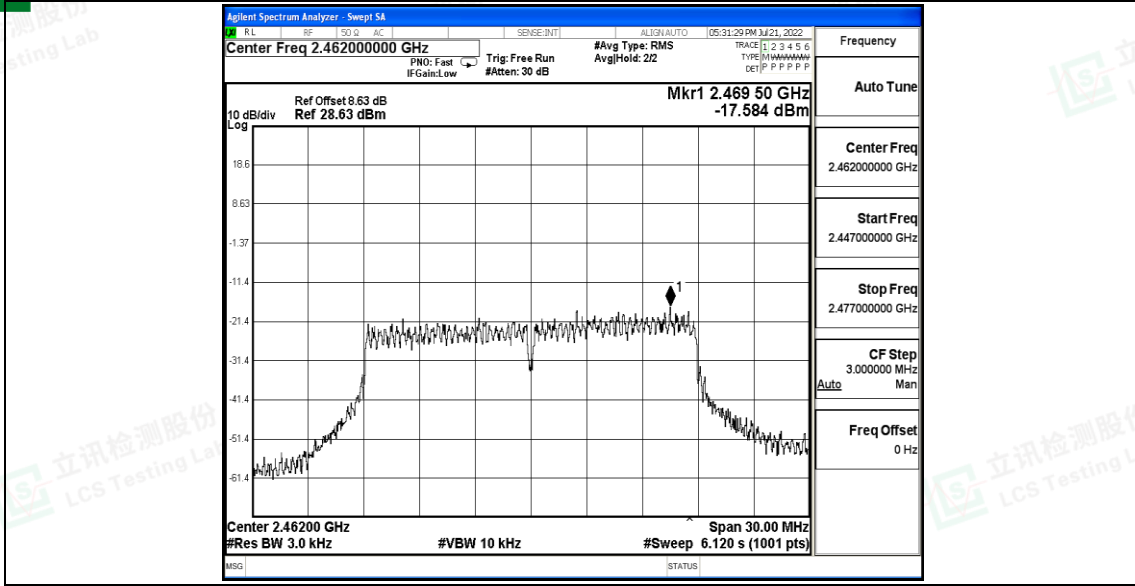


11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462







## C.4 Band edge measurements

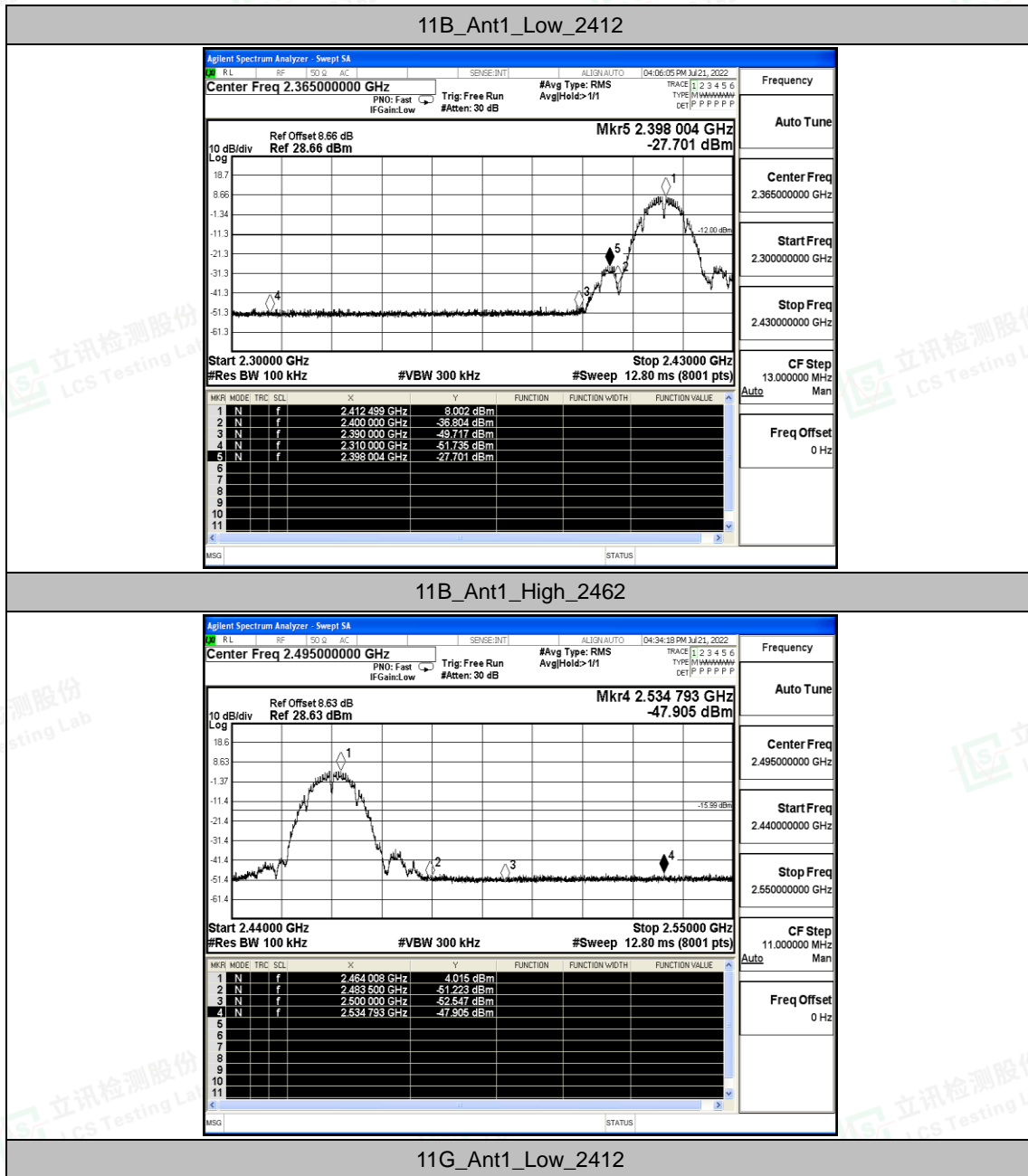
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.00	-27.7	≤-12	PASS
		High	2462	4.02	-47.91	≤-15.99	PASS
11G	Ant1	Low	2412	-4.21	-36.6	≤-24.21	PASS
		High	2462	-5.13	-44.53	≤-25.13	PASS
11N20SISO	Ant1	Low	2412	-6.46	-38.1	≤-26.46	PASS
		High	2462	-5.05	-42.3	≤-25.05	PASS

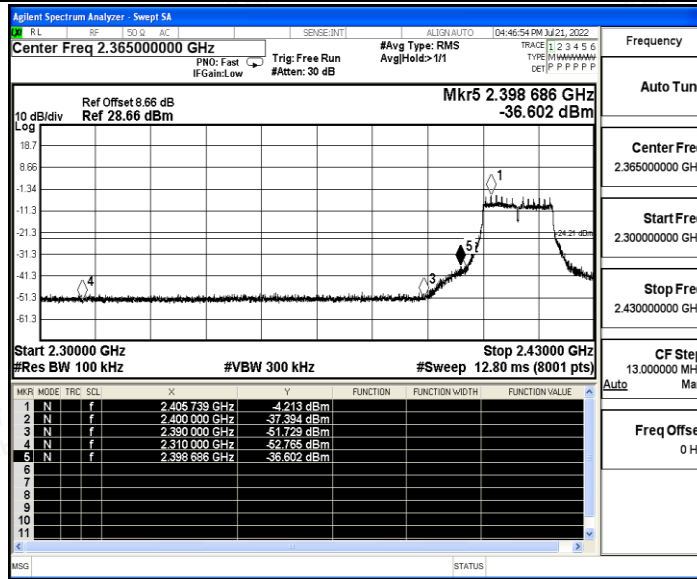




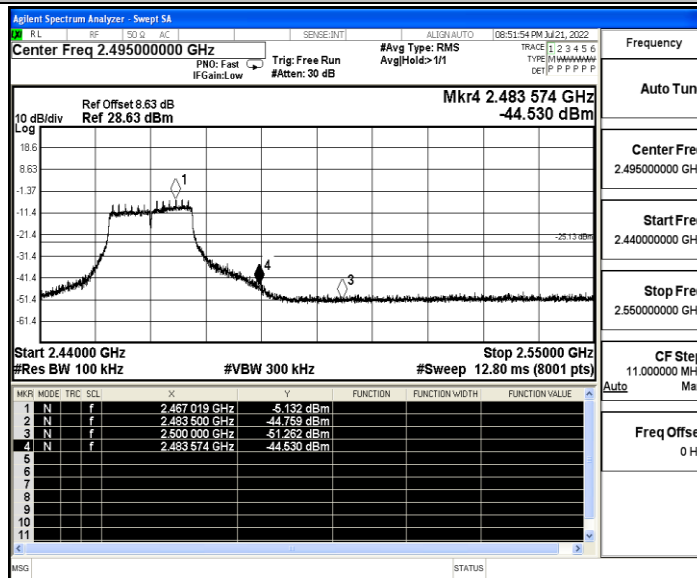
### Test Graphs





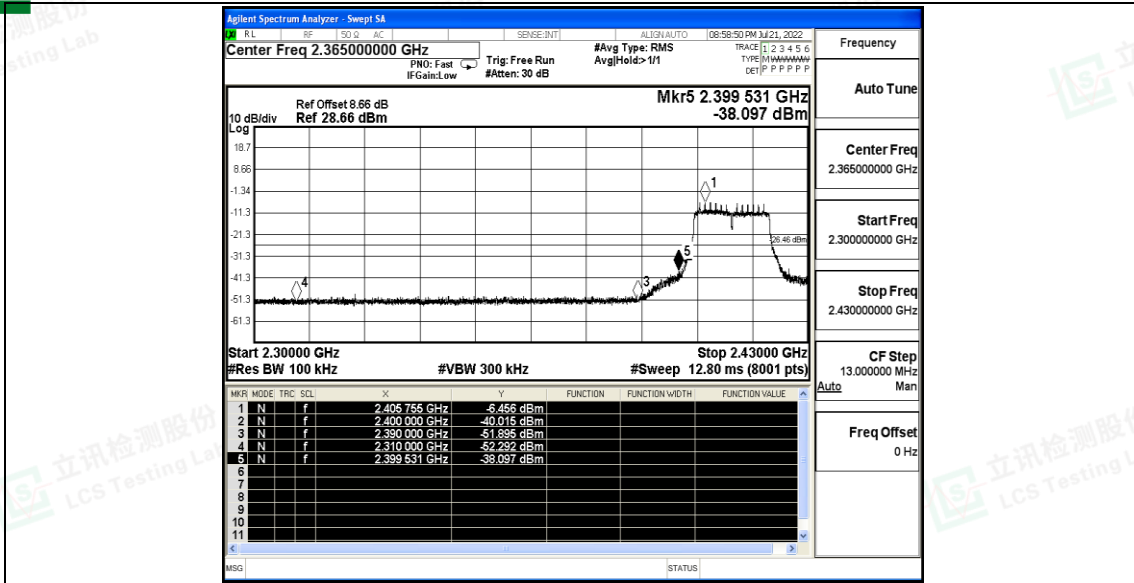


11G\_Ant1\_High\_2462

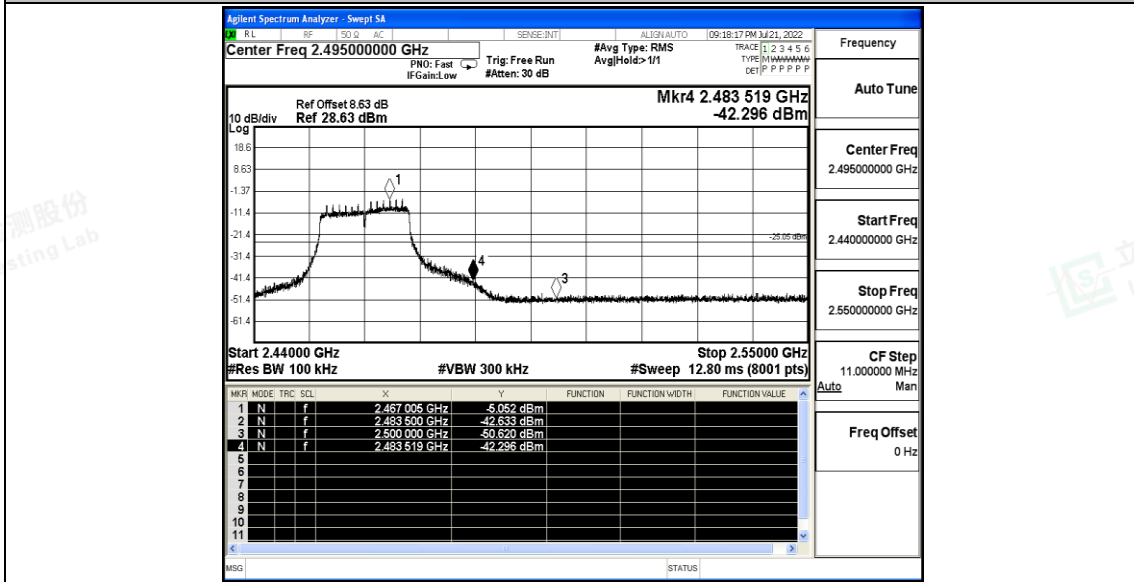


11N20SISO\_Ant1\_Low\_2412





11N20SISO\_Ant1\_High\_2462





### C.5 Conducted Spurious Emission

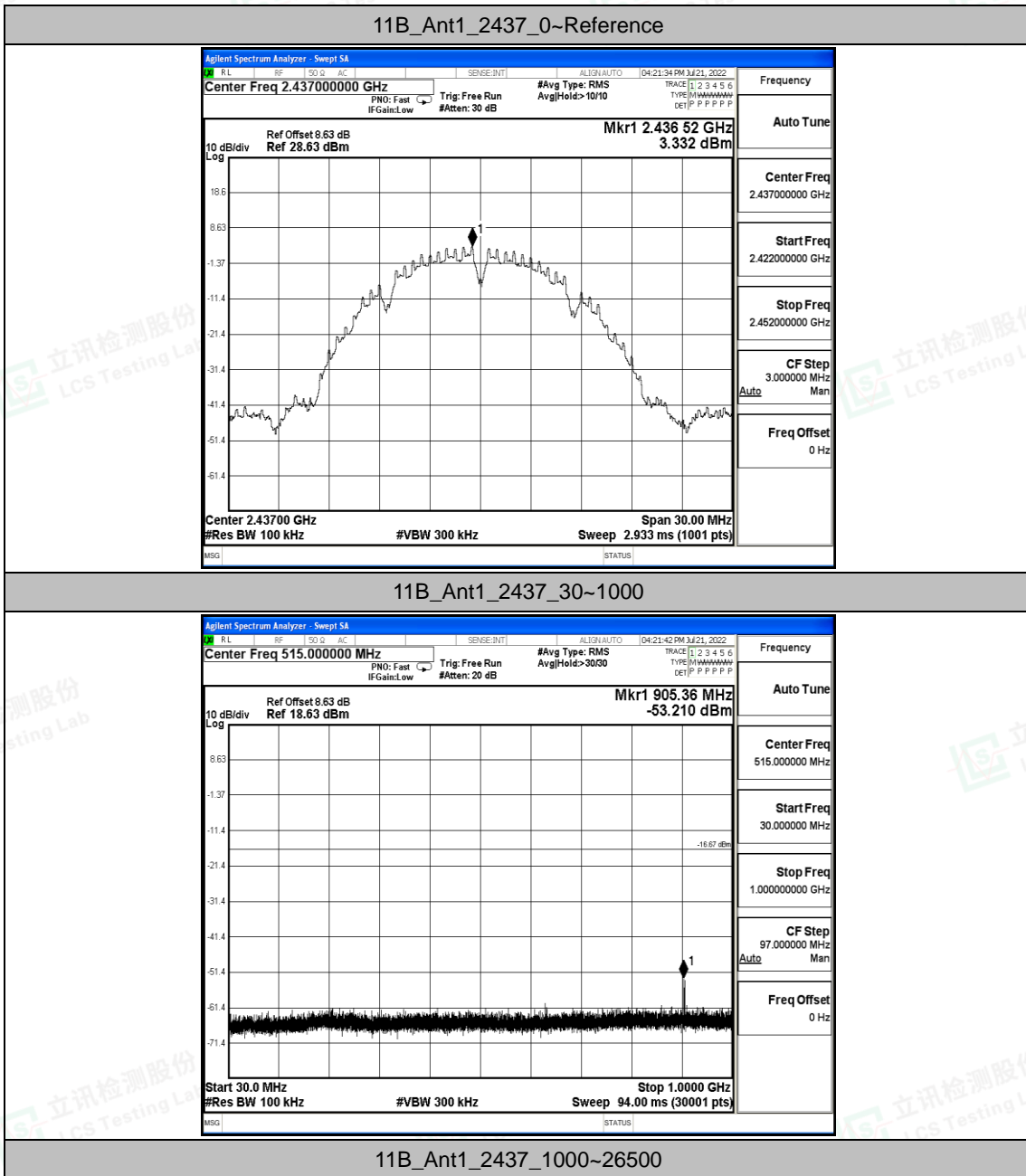
#### Test Result

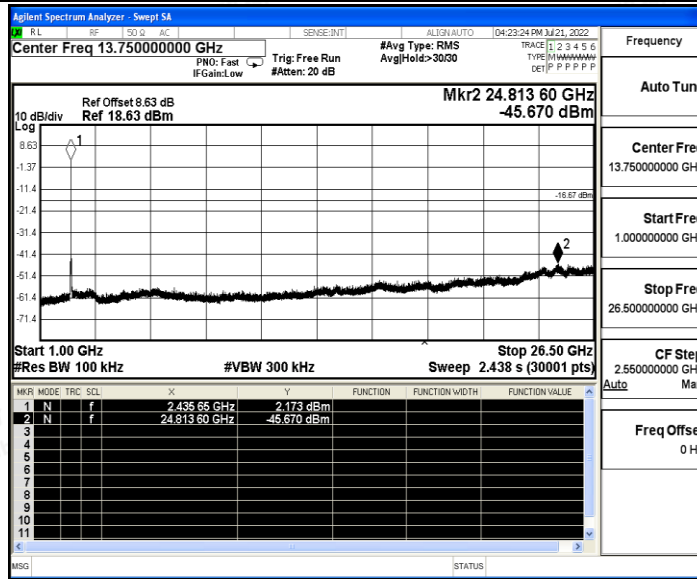
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict		
11B	Ant1	2437	Reference	3.33	3.33	---	PASS		
			30~1000	3.33	-53.21	≤-16.67	PASS		
			1000~26500	3.33	-45.67	≤-16.67	PASS		
		2462	Reference	3.86	3.86	---	PASS		
			30~1000	3.86	-59.85	≤-16.14	PASS		
			1000~26500	3.86	-45.94	≤-16.14	PASS		
11G	Ant1	2412	Reference	-4.41	-4.41	---	PASS		
			30~1000	-4.41	-60.64	≤-24.41	PASS		
			1000~26500	-4.41	-46.48	≤-24.41	PASS		
		2437	Reference	-4.08	-4.08	---	PASS		
			30~1000	-4.08	-44.84	≤-24.08	PASS		
			1000~26500	-4.08	-45.76	≤-24.08	PASS		
		2462	Reference	-4.98	-4.98	---	PASS		
			30~1000	-4.98	-60.72	≤-24.98	PASS		
			1000~26500	-4.98	-45.7	≤-24.98	PASS		
		11N20SISO	Ant1	2412	Reference	-6.58	-6.58	---	PASS
					30~1000	-6.58	-60.47	≤-26.58	PASS
					1000~26500	-6.58	-46.29	≤-26.58	PASS
2437	Reference			-7.25	-7.25	---	PASS		
	30~1000			-7.25	-49.24	≤-27.25	PASS		
	1000~26500			-7.25	-46.45	≤-27.25	PASS		
2462	Reference			-4.98	-4.98	---	PASS		
	30~1000			-4.98	-60.29	≤-24.98	PASS		
	1000~26500			-4.98	-43.19	≤-24.98	PASS		



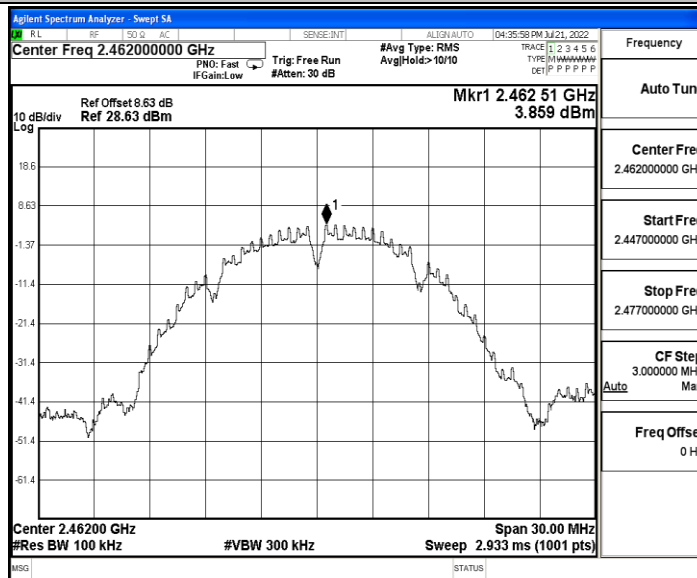


### Test Graphs



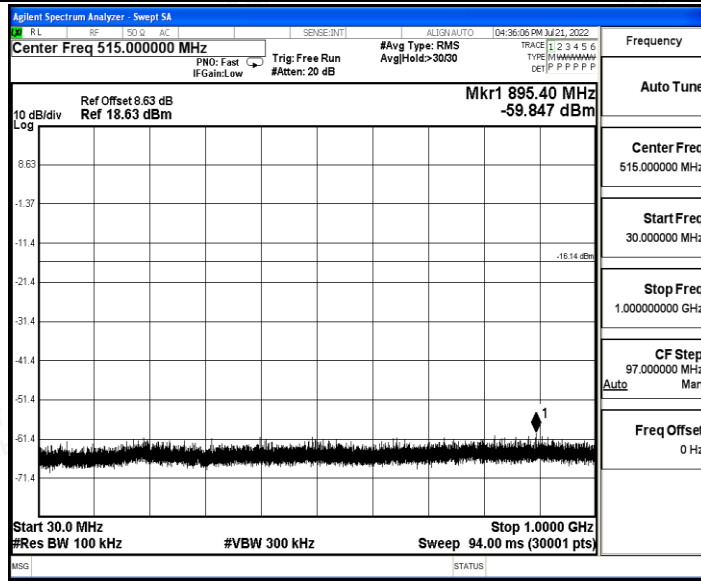


11B\_Ant1\_2462\_0-Reference

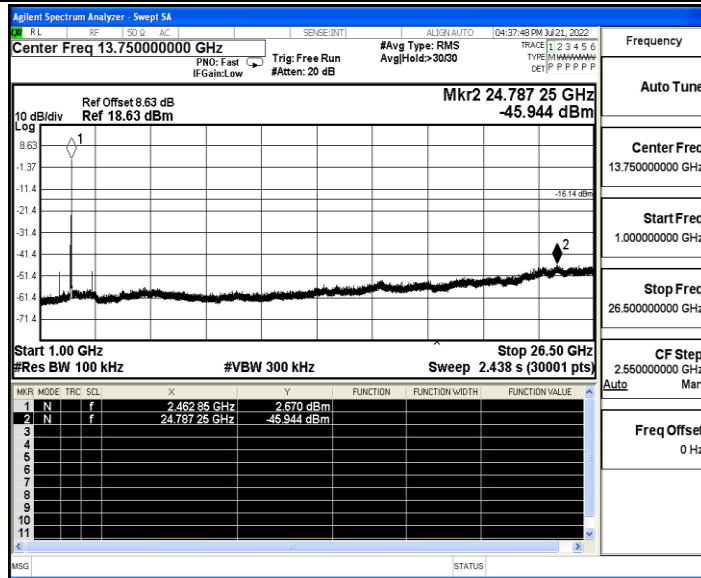


11B\_Ant1\_2462\_30-1000



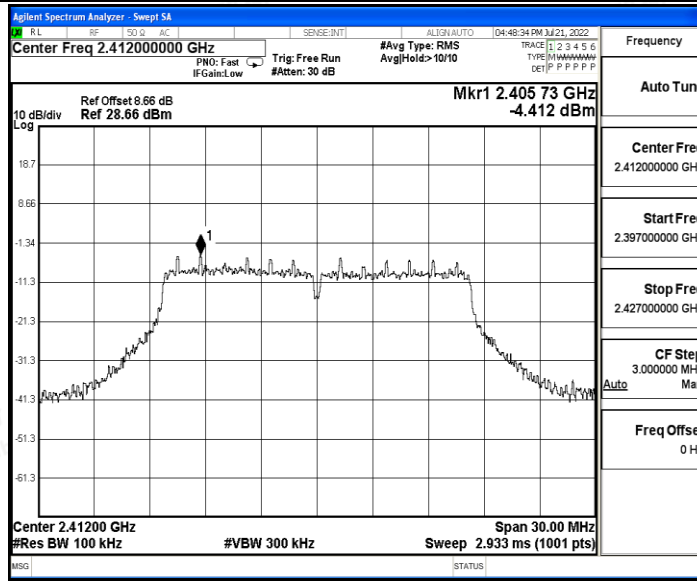


11B\_Ant1\_2462\_1000~26500

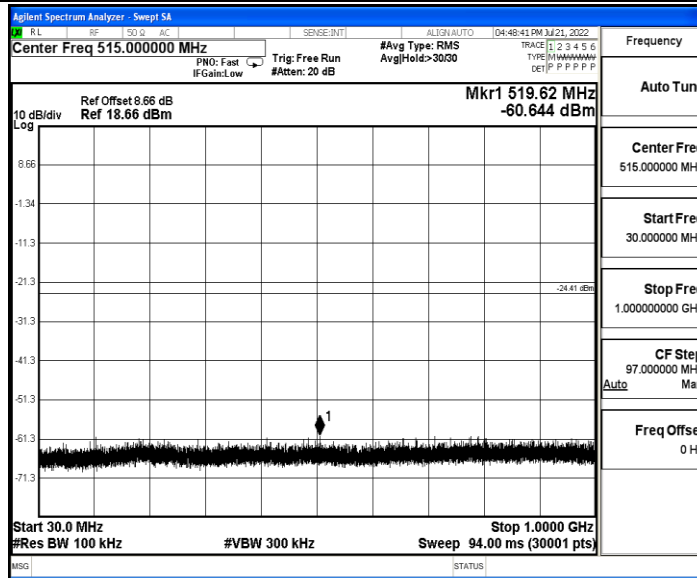


11G\_Ant1\_2412\_0~Reference



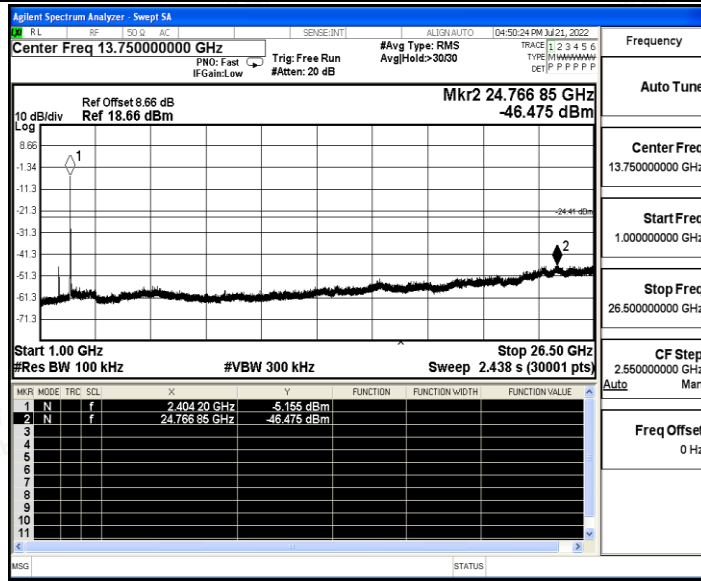


11G\_Ant1\_2412\_30~1000

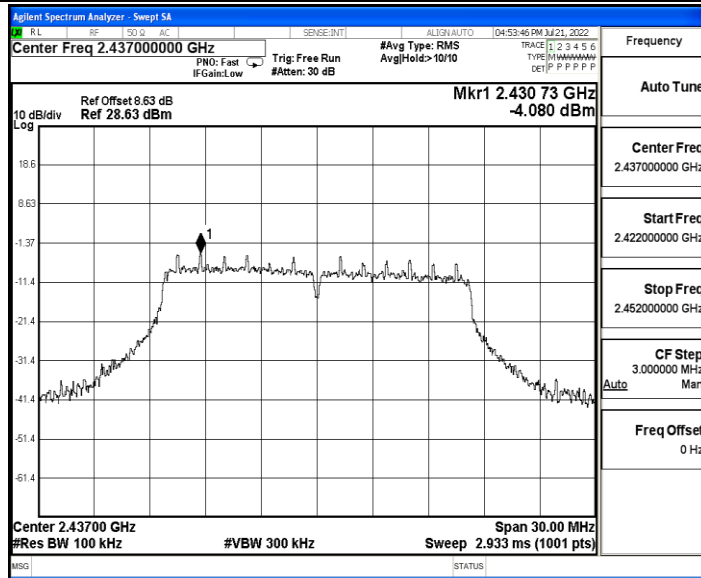


11G\_Ant1\_2412\_1000~26500





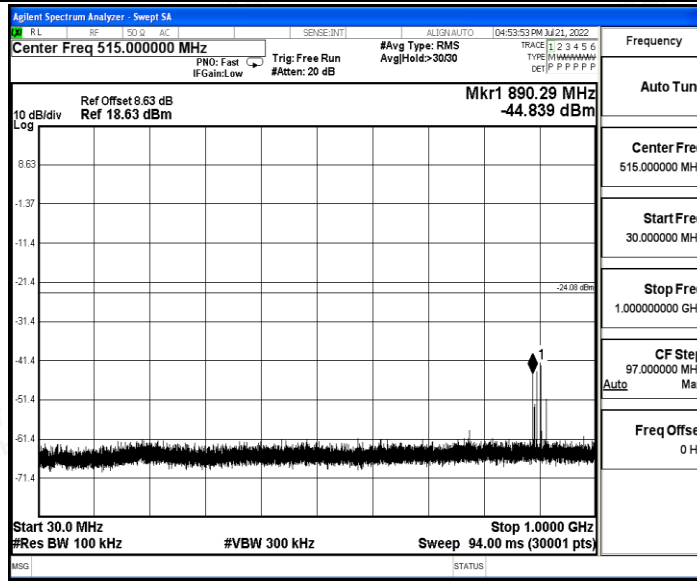
11G\_Ant1\_2437\_0-Reference



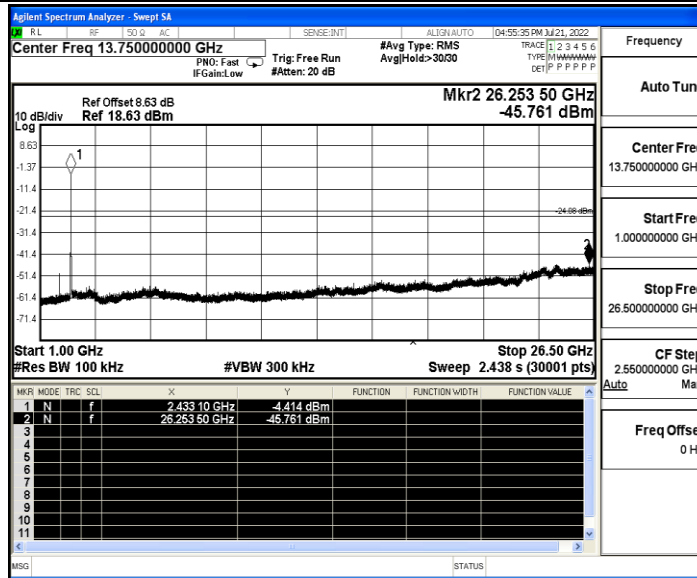
11G\_Ant1\_2437\_30~1000





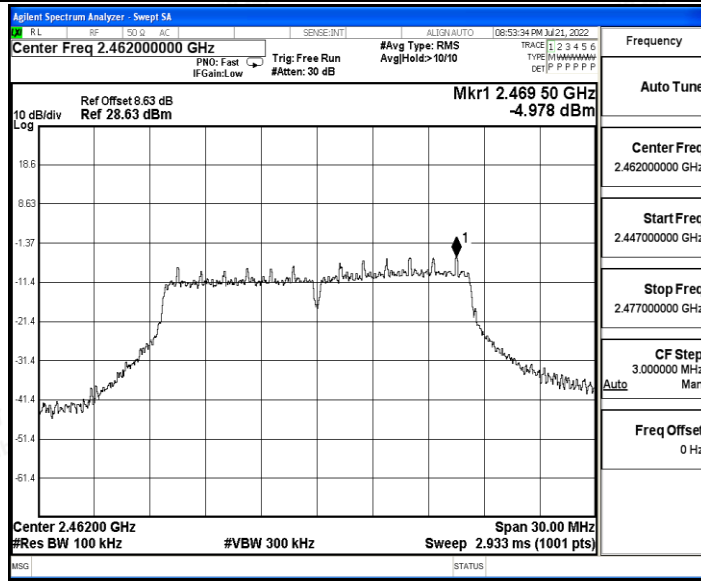


11G\_Ant1\_2437\_1000~26500

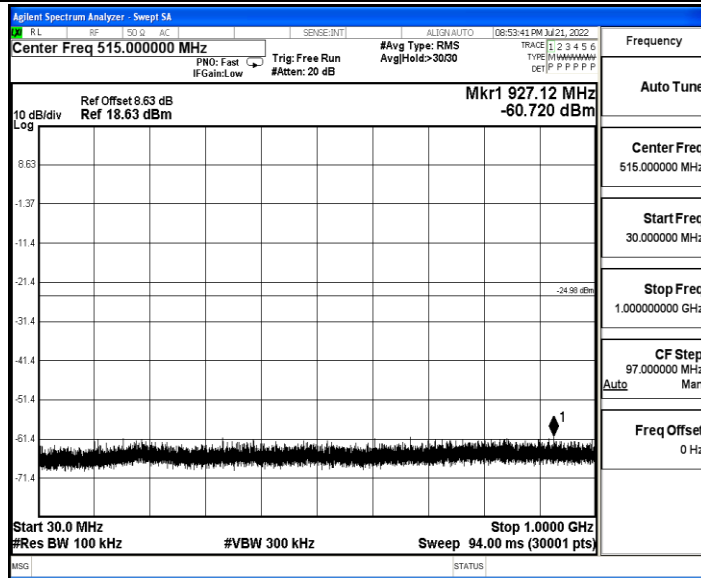


11G\_Ant1\_2462\_0~Reference



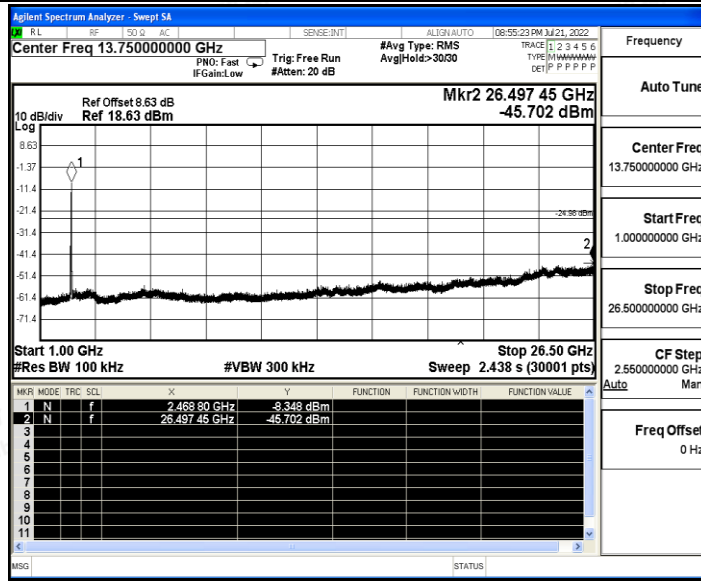


11G\_Ant1\_2462\_30~1000

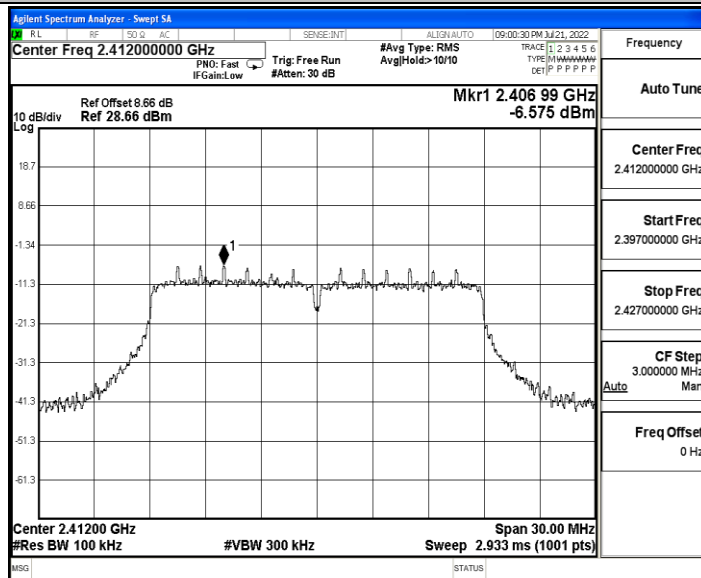


11G\_Ant1\_2462\_1000~26500



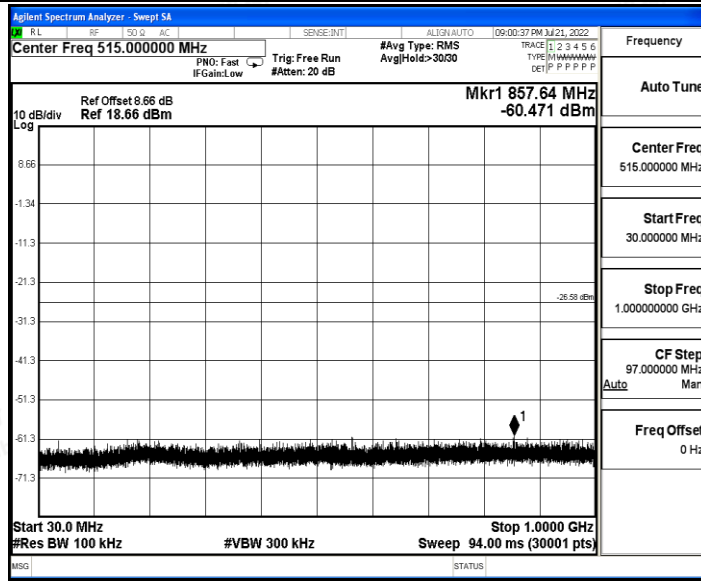


11N20SISO\_Ant1\_2412\_0-Reference

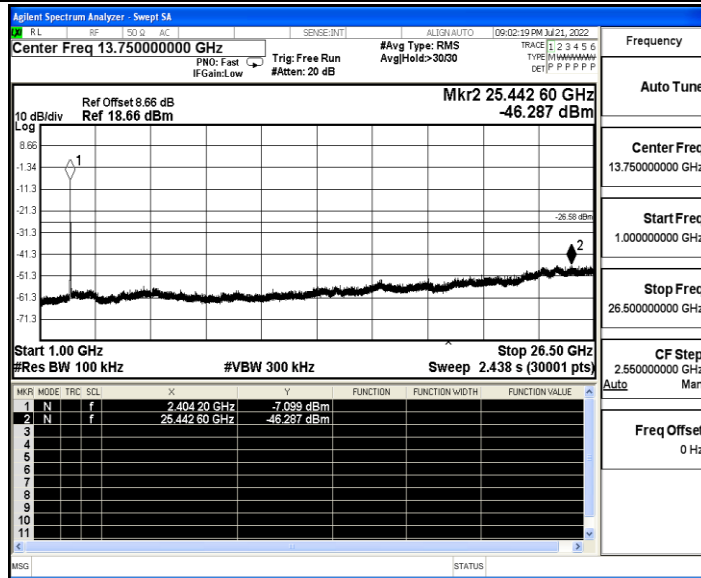


11N20SISO\_Ant1\_2412\_30~1000



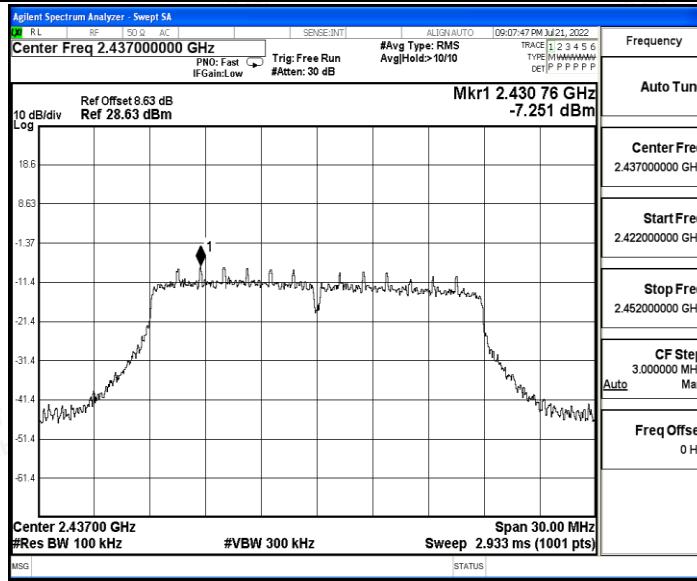


11N20SISO\_Ant1\_2412\_1000~26500

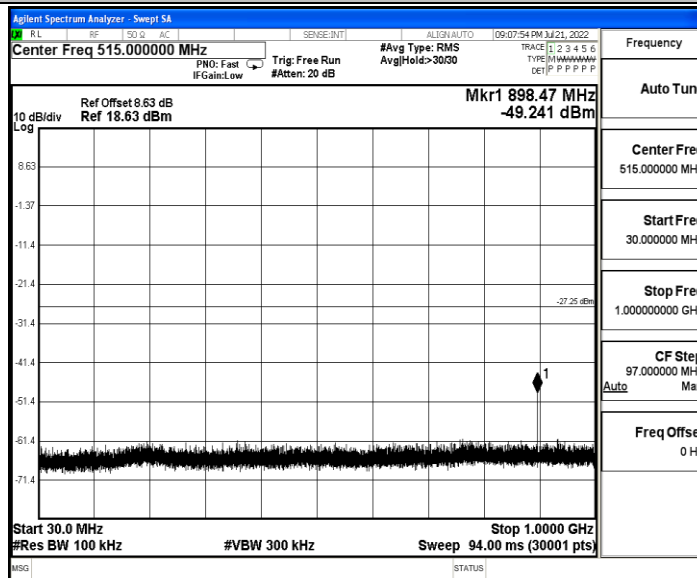


11N20SISO\_Ant1\_2437\_0~Reference



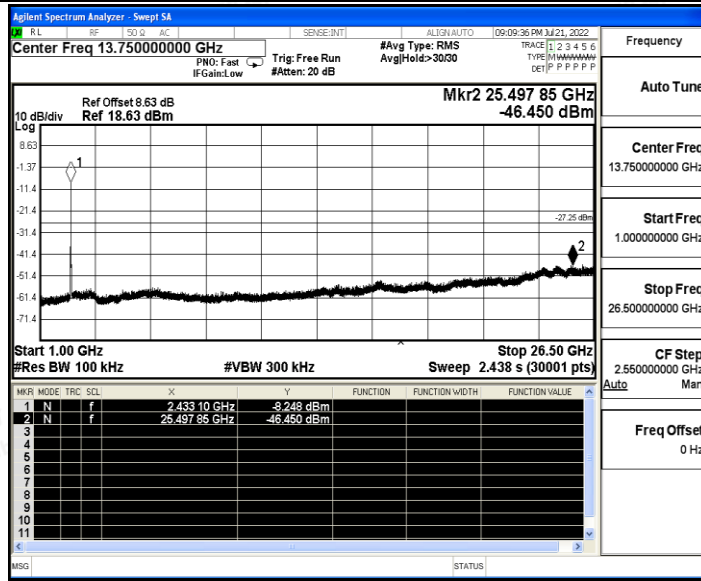


11N20SISO\_Ant1\_2437\_30~1000

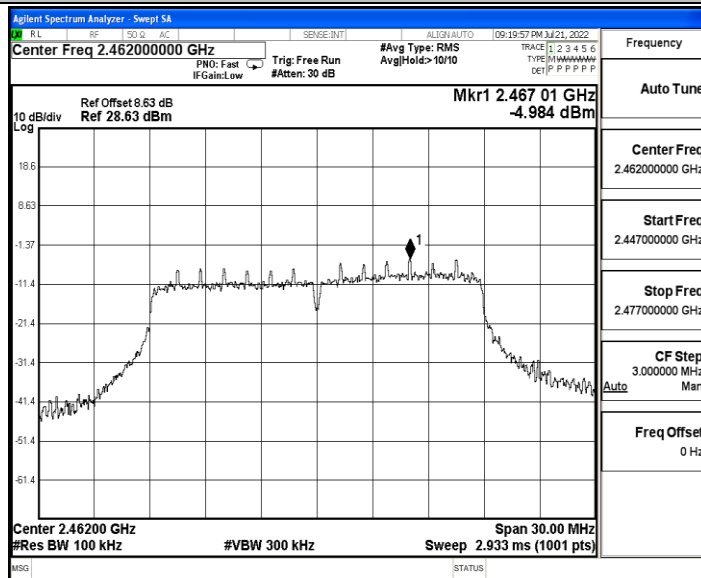


11N20SISO\_Ant1\_2437\_1000~26500



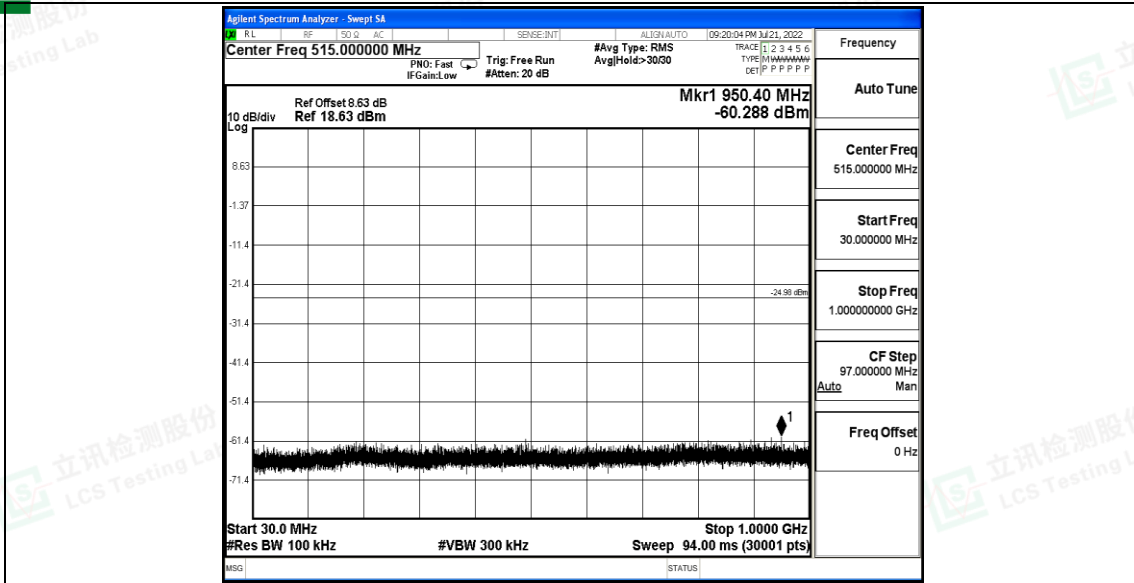


11N20SISO\_Ant1\_2462\_0~Reference

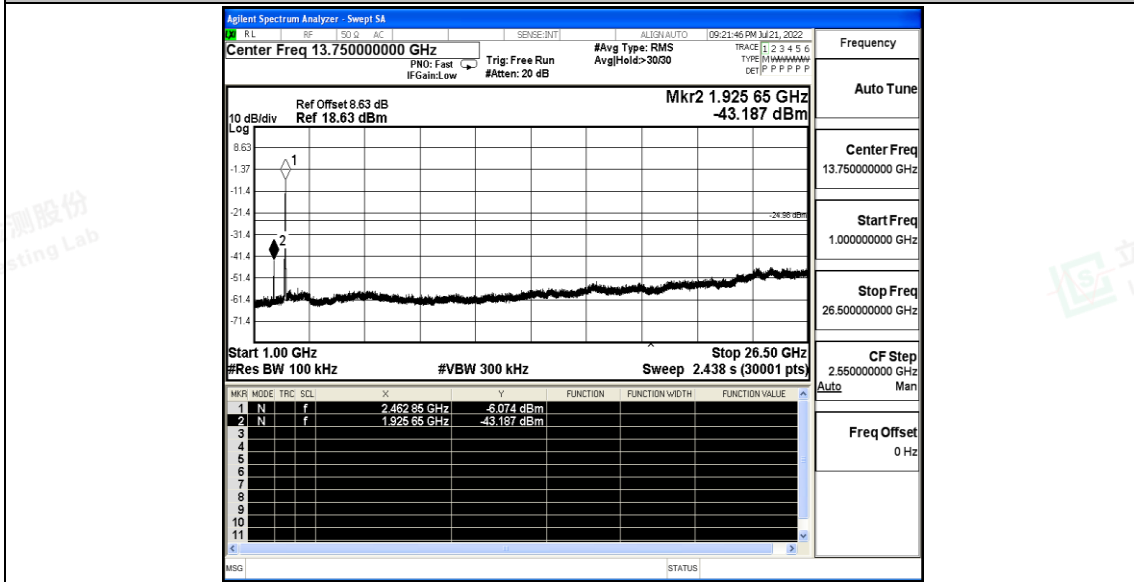


11N20SISO\_Ant1\_2462\_30~1000





11N20SISO\_Ant1\_2462\_1000~26500





### C.6 Duty Cycle

#### Test Result

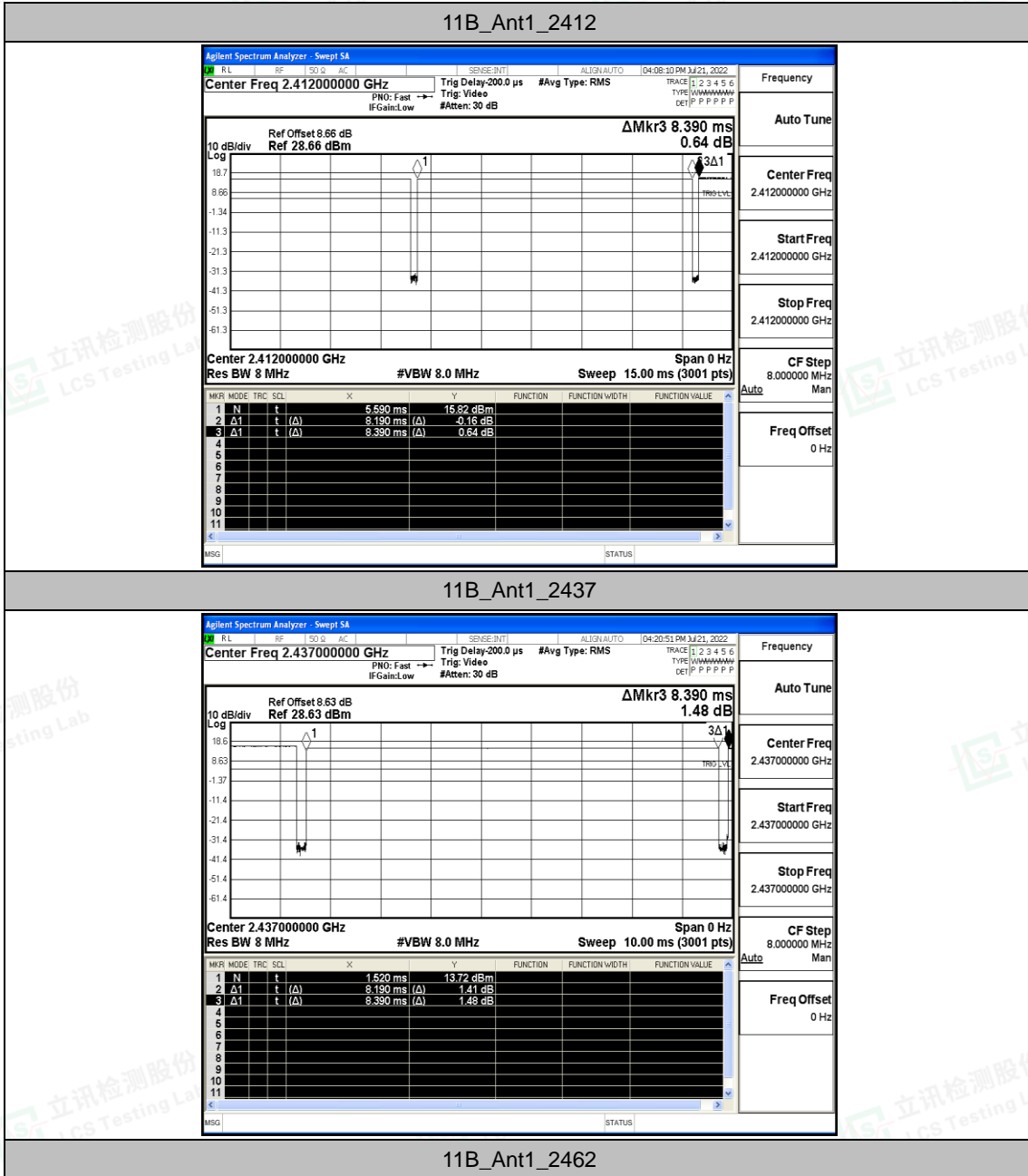
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T	Verdict
11B	Ant1	2412	8.19	8.39	97.62	0.12	---
		2437	8.19	8.39	97.62	0.12	---
		2462	8.19	8.39	97.62	0.12	---
11G	Ant1	2412	1.36	1.56	87.18	0.74	---
		2437	1.36	1.56	87.18	0.74	---
		2462	1.36	1.56	87.18	0.74	---
11N20SISO	Ant1	2412	1.28	1.47	87.07	0.78	---
		2437	1.27	1.47	86.39	0.79	---
		2462	1.28	1.47	87.07	0.78	---

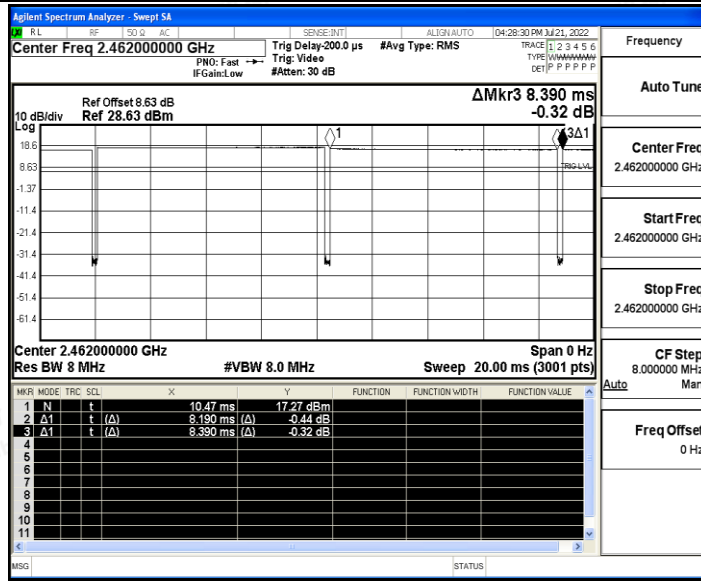




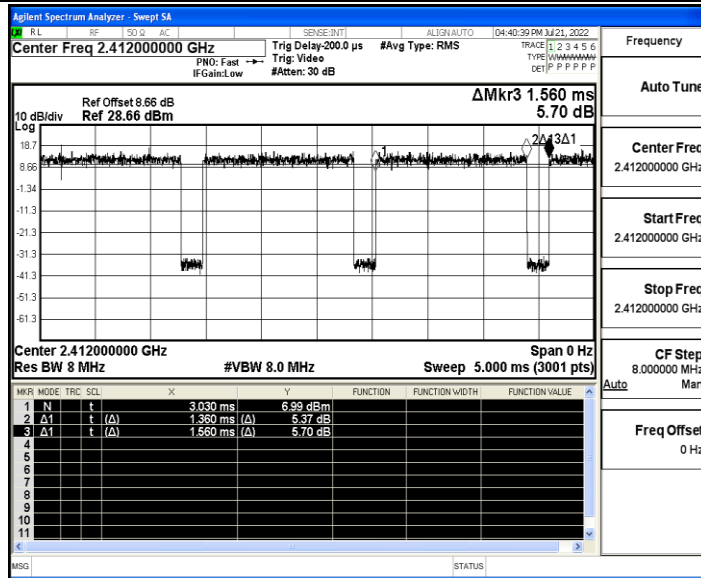


### Test Graphs



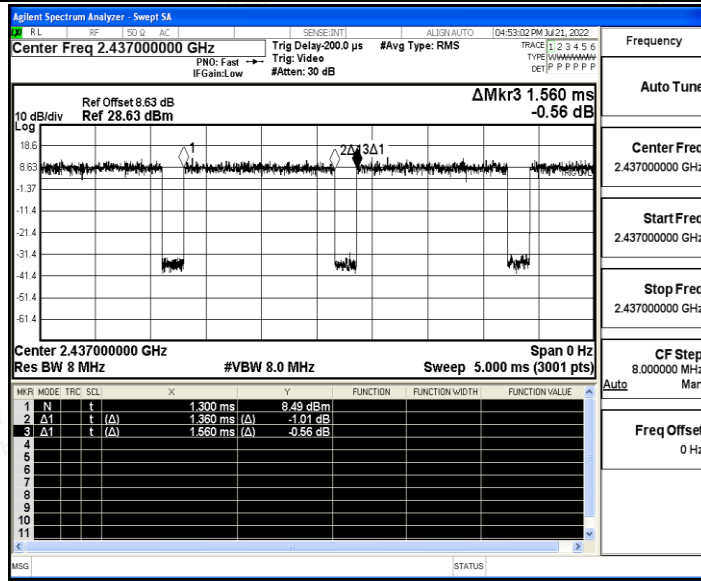


11G\_Ant1\_2412

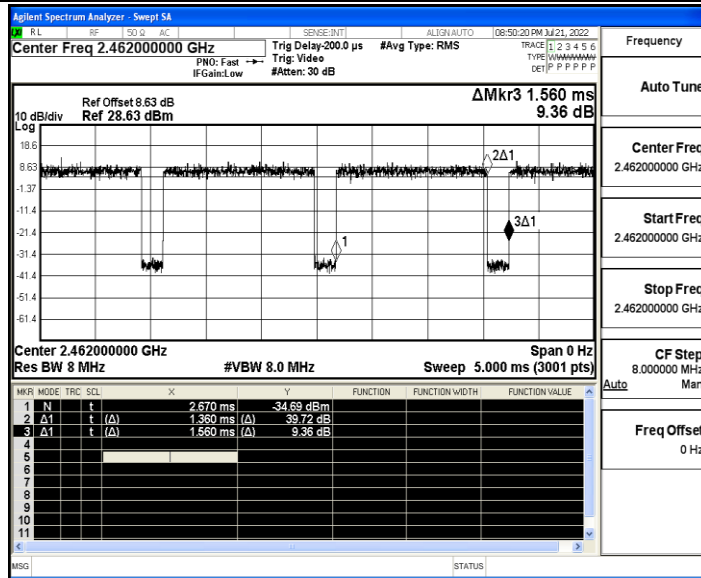


11G\_Ant1\_2437



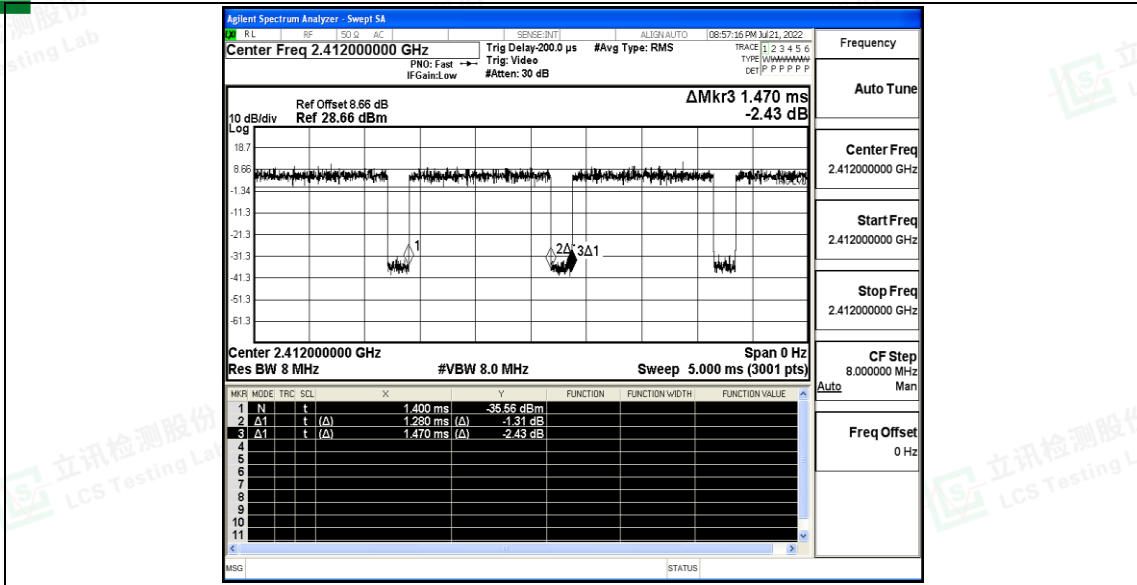


11G\_Ant1\_2462

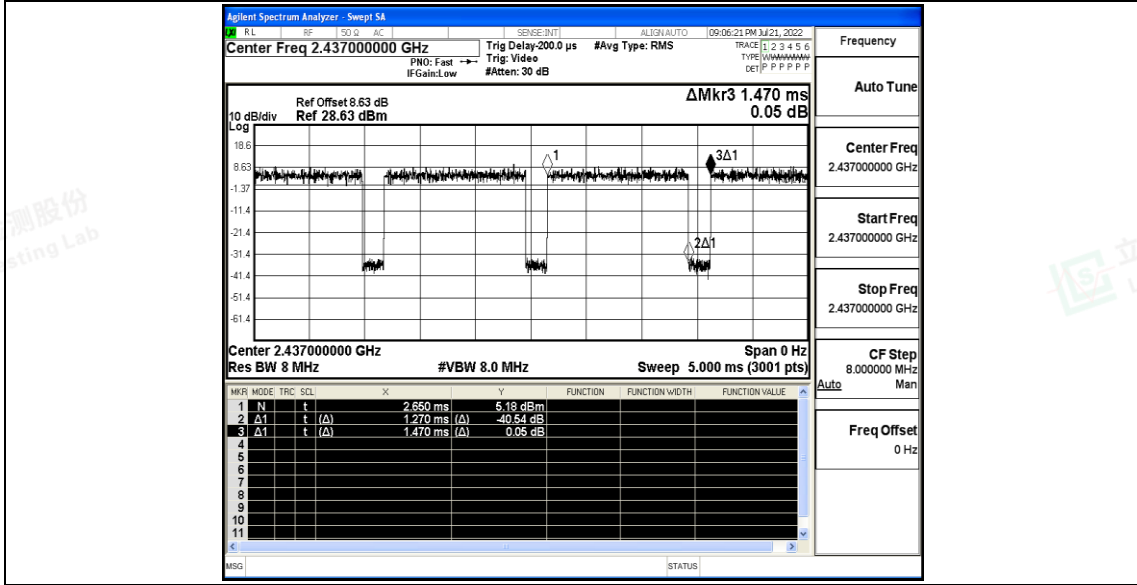


11N20SISO\_Ant1\_2412



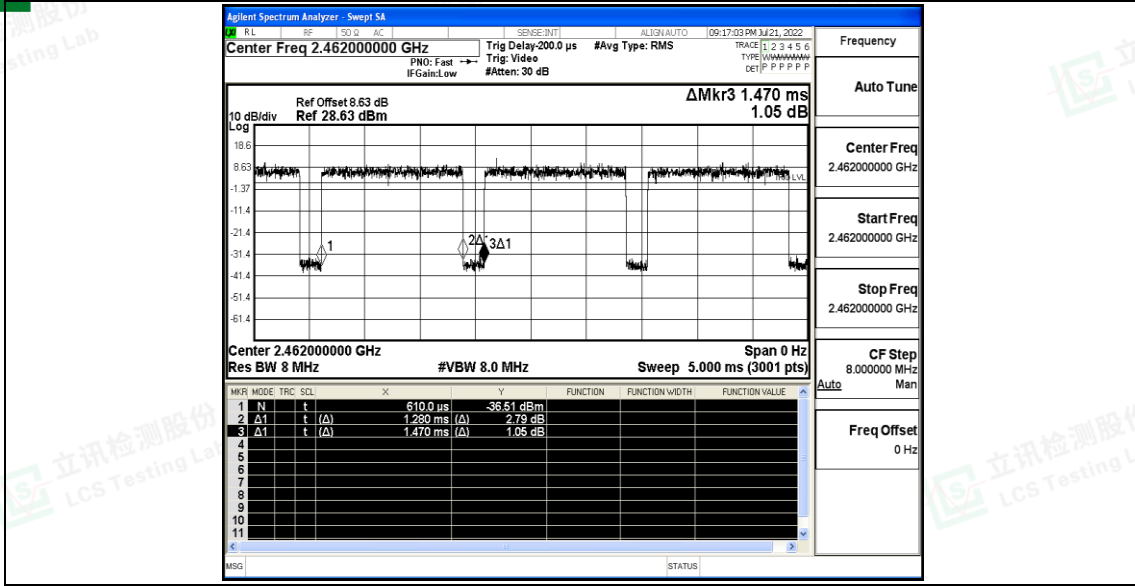


11N20SISO\_Ant1\_2437



11N20SISO\_Ant1\_2462







### C.7 Emissions in Restricted Band

#### Test Result

TestMode	Antenna	ChName	Freq(MHz )	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-58.7	≤-41.20	36.50	≤54	PASS
				AV	2389.440	-57.85	≤-41.20	37.35	≤54	PASS
				AV	2390.000	-58	≤-41.20	37.20	≤54	PASS
				Peak	2310.000	-48.24	≤-21.20	46.96	≤74	PASS
				Peak	2388.920	-45.93	≤-21.20	49.27	≤74	PASS
				Peak	2390.000	-47.51	≤-21.20	47.69	≤74	PASS
		High	2462	AV	2483.500	-52.93	≤-41.20	42.27	≤54	PASS
				AV	2487.520	-50.1	≤-41.20	45.10	≤54	PASS
				AV	2500.000	-57.83	≤-41.20	37.37	≤54	PASS
				Peak	2483.500	-42.44	≤-21.20	52.76	≤74	PASS
				Peak	2485.760	-25.03	≤-21.20	70.17	≤74	PASS
				Peak	2500.000	-47.7	≤-21.20	47.50	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-58.31	≤-41.20	36.89	≤54	PASS
				AV	2389.960	-53.56	≤-41.20	41.64	≤54	PASS
				AV	2390.000	-53.56	≤-41.20	41.64	≤54	PASS
				Peak	2310.000	-48.3	≤-21.20	46.90	≤74	PASS
				Peak	2389.960	-36.81	≤-21.20	58.39	≤74	PASS
				Peak	2390.000	-36.81	≤-21.20	58.39	≤74	PASS
		High	2462	AV	2483.500	-42.9	≤-41.20	52.30	≤54	PASS
				AV	2483.560	-43.25	≤-41.20	51.95	≤54	PASS
				AV	2500.000	-57.34	≤-41.20	37.86	≤54	PASS
				Peak	2483.500	-26.55	≤-21.20	68.65	≤74	PASS
				Peak	2483.670	-25.35	≤-21.20	69.85	≤74	PASS
				Peak	2500.000	-47.51	≤-21.20	47.69	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-58.42	≤-41.20	36.78	≤54	PASS
				AV	2389.830	-54.13	≤-41.20	41.07	≤54	PASS
				AV	2390.000	-54.25	≤-41.20	40.95	≤54	PASS
				Peak	2310.000	-48.02	≤-21.20	47.18	≤74	PASS
				Peak	2389.700	-36.05	≤-21.20	59.15	≤74	PASS
				Peak	2390.000	-36.53	≤-21.20	58.67	≤74	PASS
		High	2462	AV	2483.500	-45.05	≤-41.20	50.15	≤54	PASS
				AV	2483.560	-45.06	≤-41.20	50.14	≤54	PASS
				AV	2500.000	-57.47	≤-41.20	37.73	≤54	PASS
				Peak	2483.500	-28.71	≤-21.20	66.49	≤74	PASS
				Peak	2483.560	-27.94	≤-21.20	67.26	≤74	PASS
				Peak	2500.000	-45.68	≤-21.20	49.52	≤74	PASS



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 Scan code to check authenticity



Note:

1. The Antenna Gain is compensated in the graph.
2. 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.

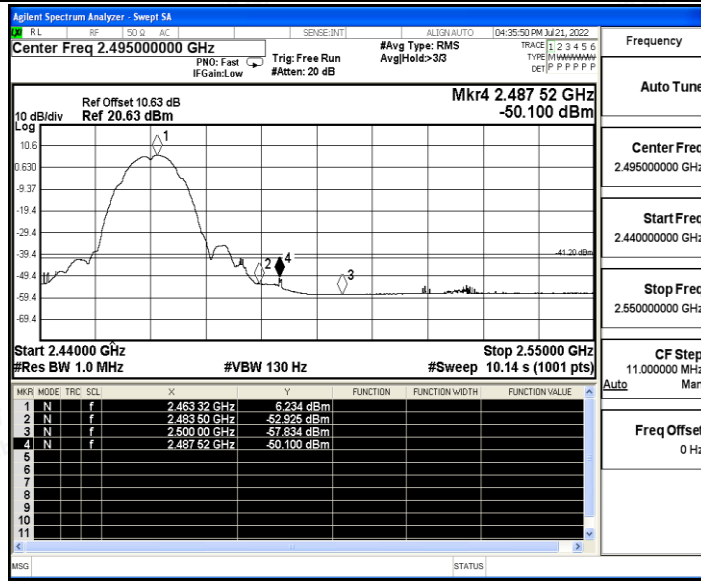




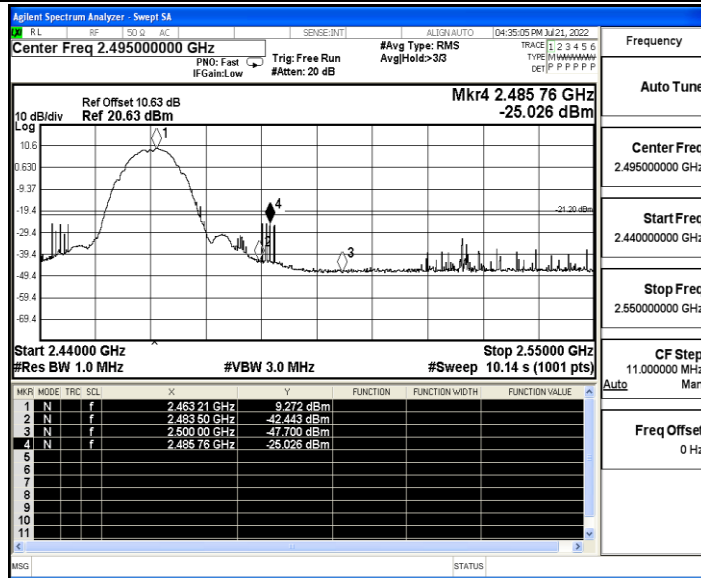
### Test Graphs





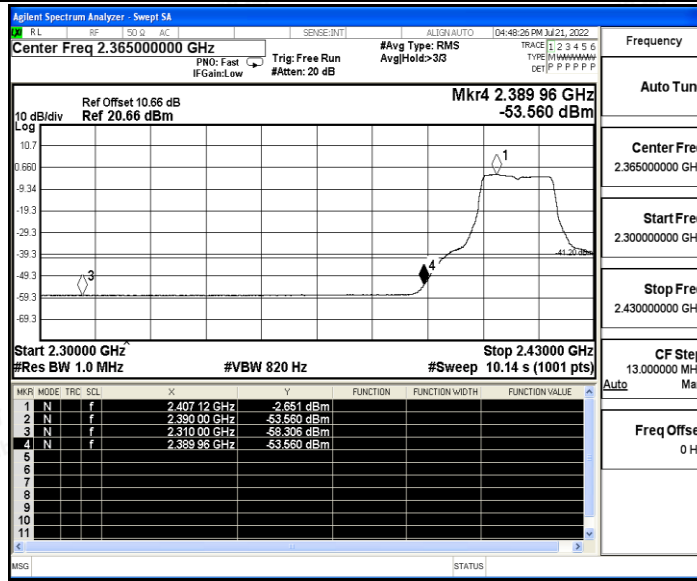


11B\_Ant1\_High\_2462\_Peak

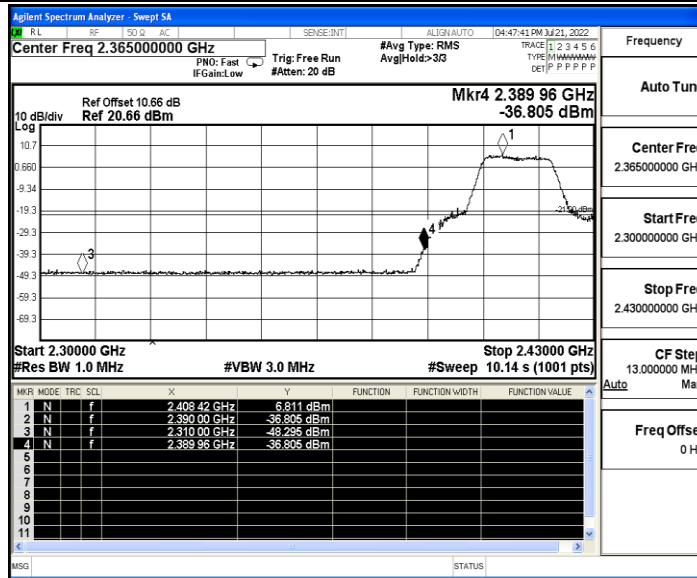


11G\_Ant1\_Low\_2412\_AV



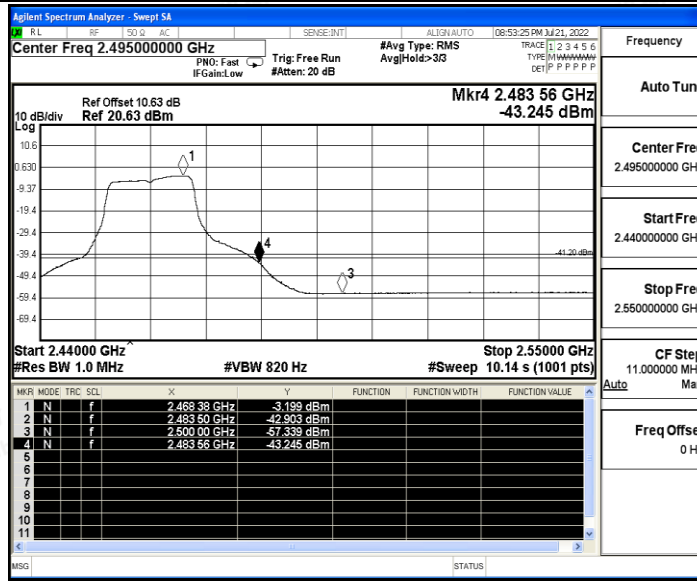


11G\_Ant1\_Low\_2412\_Peak

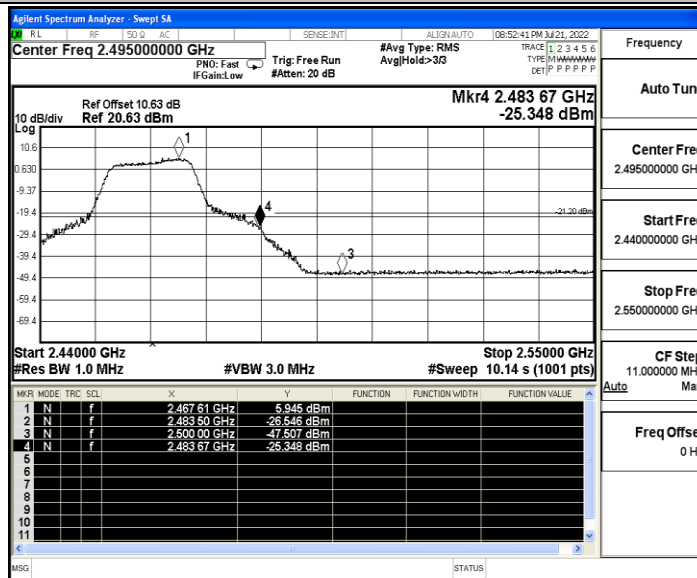


11G\_Ant1\_High\_2462\_AV



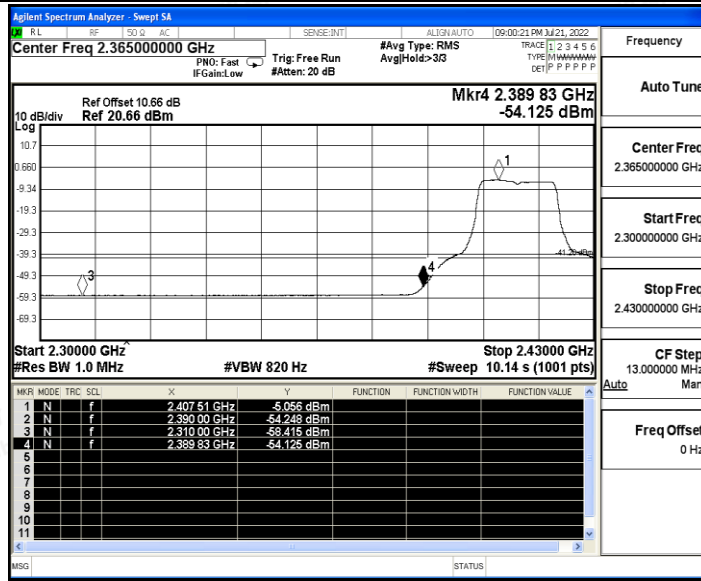


11G\_Ant1\_High\_2462\_Peak

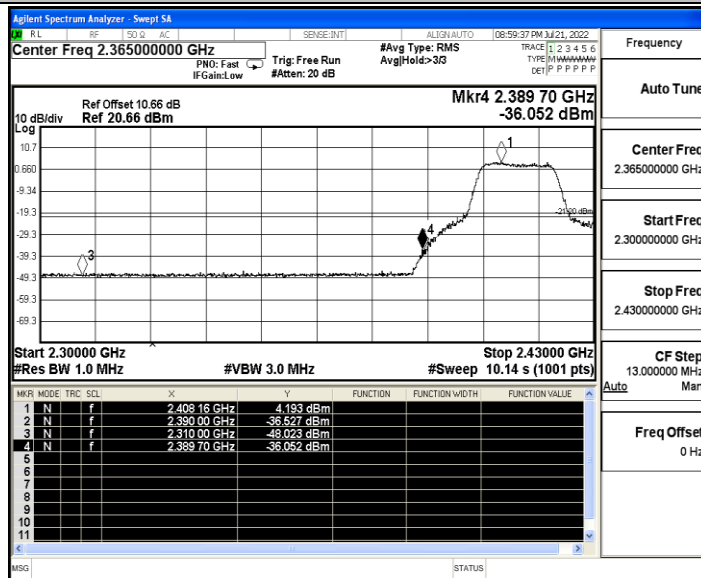


11N20SISO\_Ant1\_Low\_2412\_AV



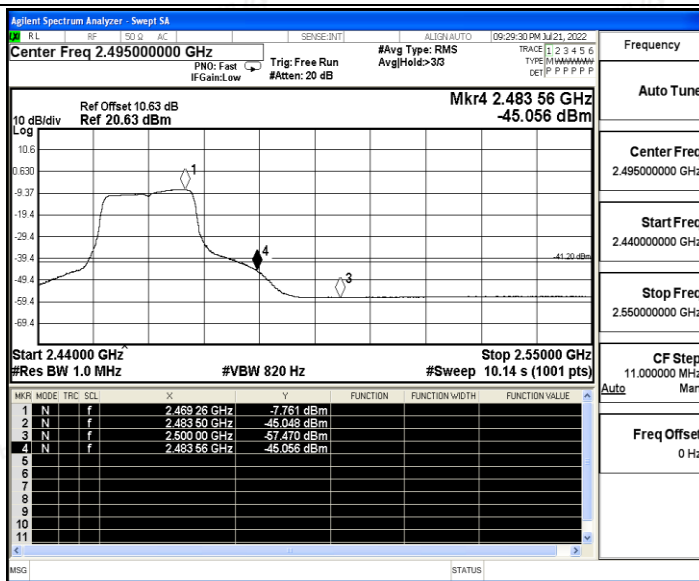


11N20SISO\_Ant1\_Low\_2412\_Peak



11N20SISO\_Ant1\_High\_2462\_AV





11N20SISO\_Ant1\_High\_2462\_Peak

