



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Tablet PC

Test Model: T10_Pro

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





B.1 DTS Bandwidth

Test Result

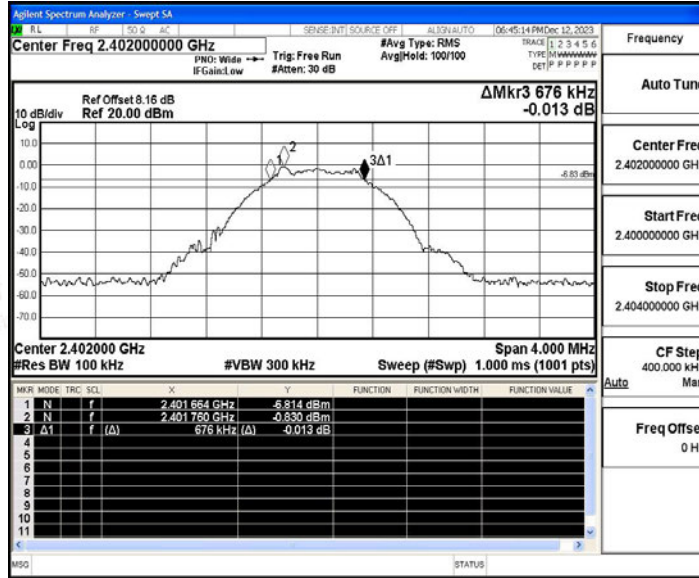
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.664	2402.340	0.5	PASS
		2440	0.660	2439.668	2440.328	0.5	PASS
		2480	0.644	2479.676	2480.320	0.5	PASS
BLE_2M	Ant1	2402	1.144	2401.424	2402.568	0.5	PASS
		2440	1.140	2439.412	2440.552	0.5	PASS
		2480	1.176	2479.408	2480.584	0.5	PASS



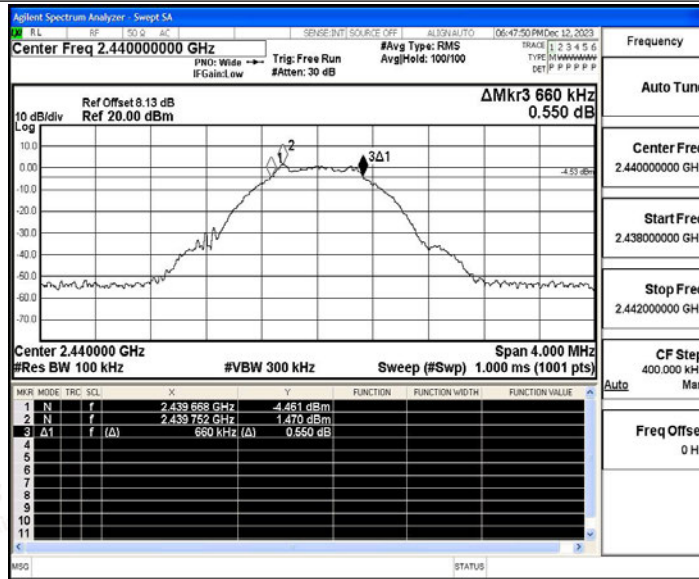


Test Graphs

BLE_1M_Ant1_2402

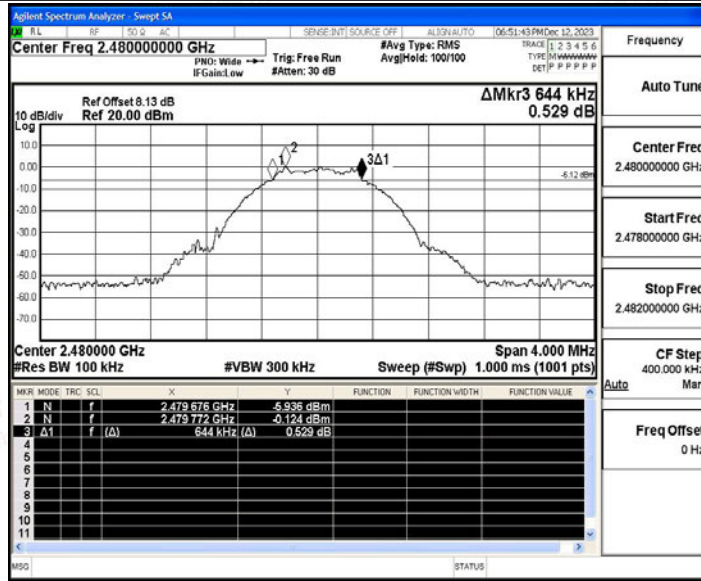


BLE_1M_Ant1_2440

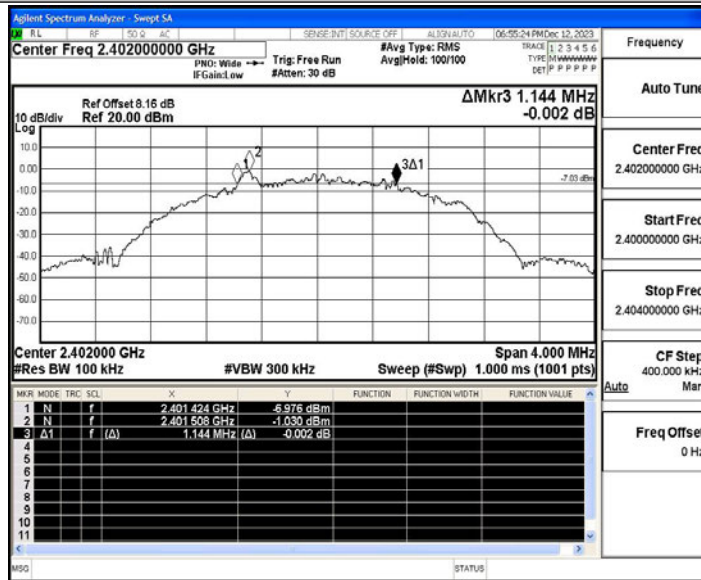


BLE_1M_Ant1_2480



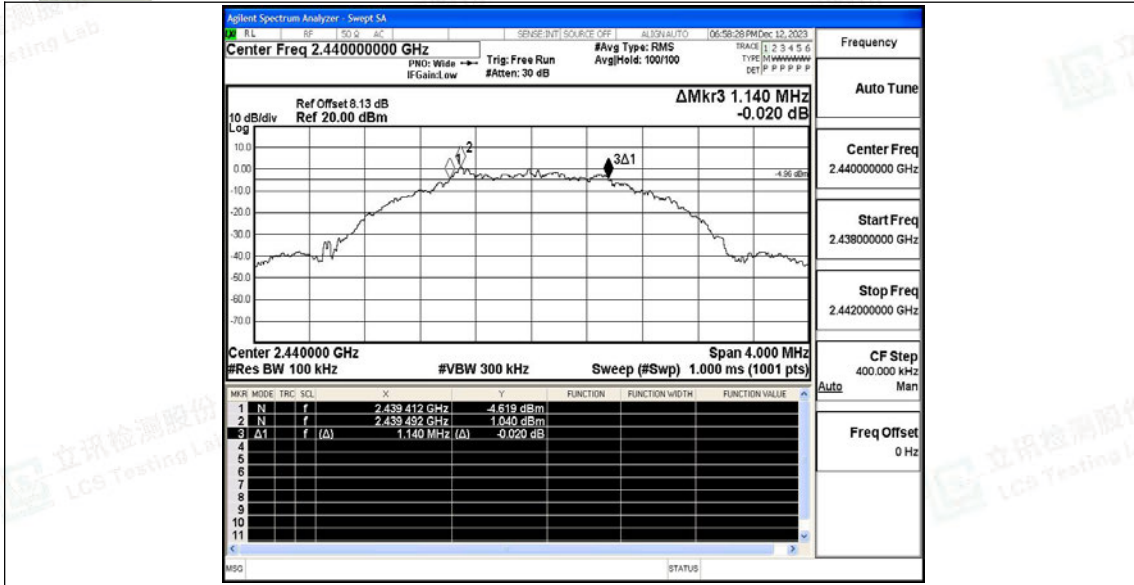


BLE_2M_Ant1_2402

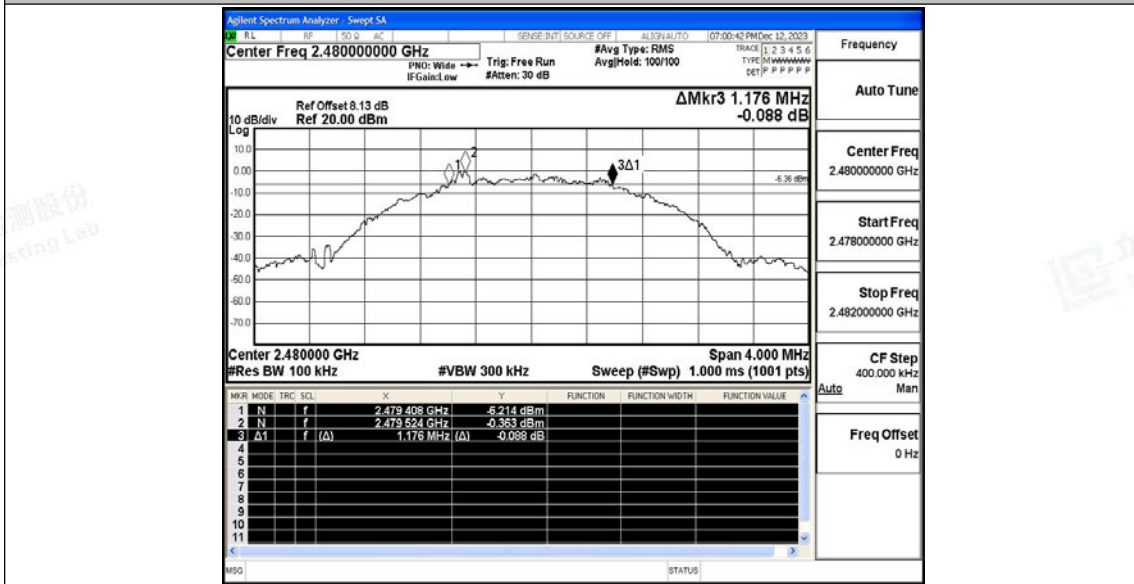


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480





B.2 Maximum conducted output power

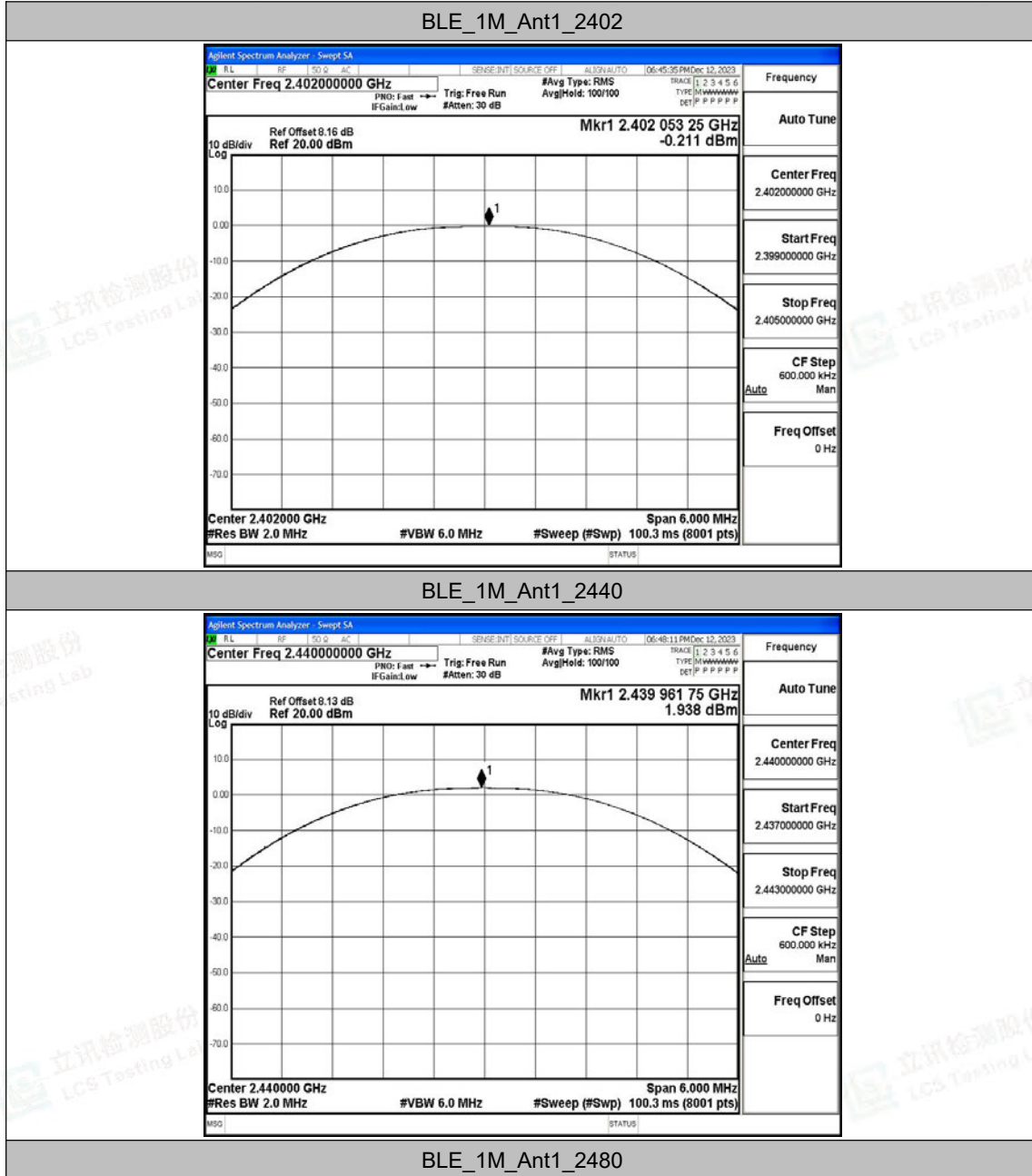
Test Result

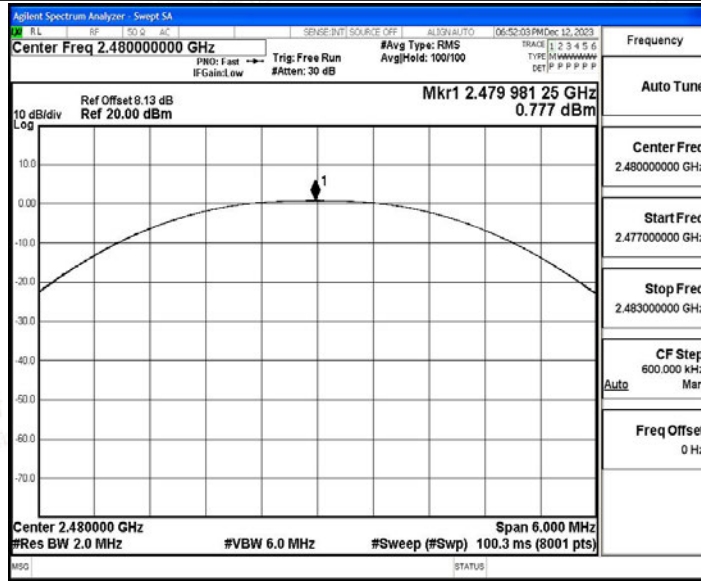
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-0.21	≤30	PASS
		2440	1.94	≤30	PASS
		2480	0.78	≤30	PASS
BLE_2M	Ant1	2402	-0.33	≤30	PASS
		2440	1.71	≤30	PASS
		2480	0.61	≤30	PASS



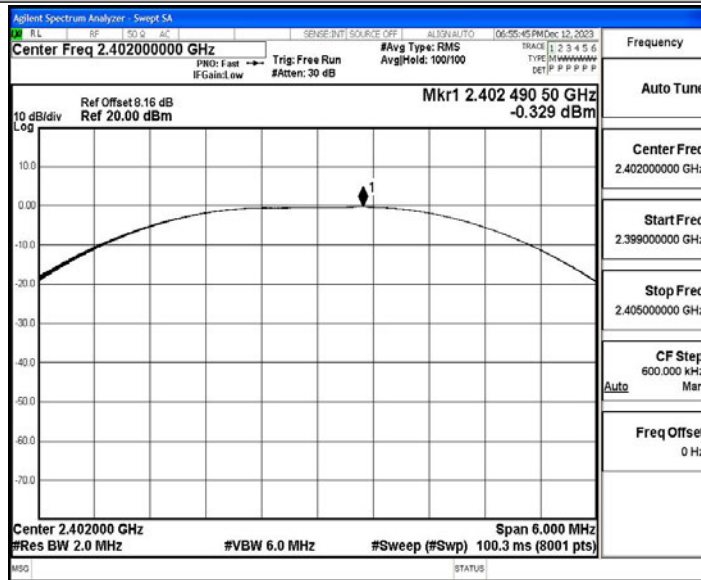


Test Graphs



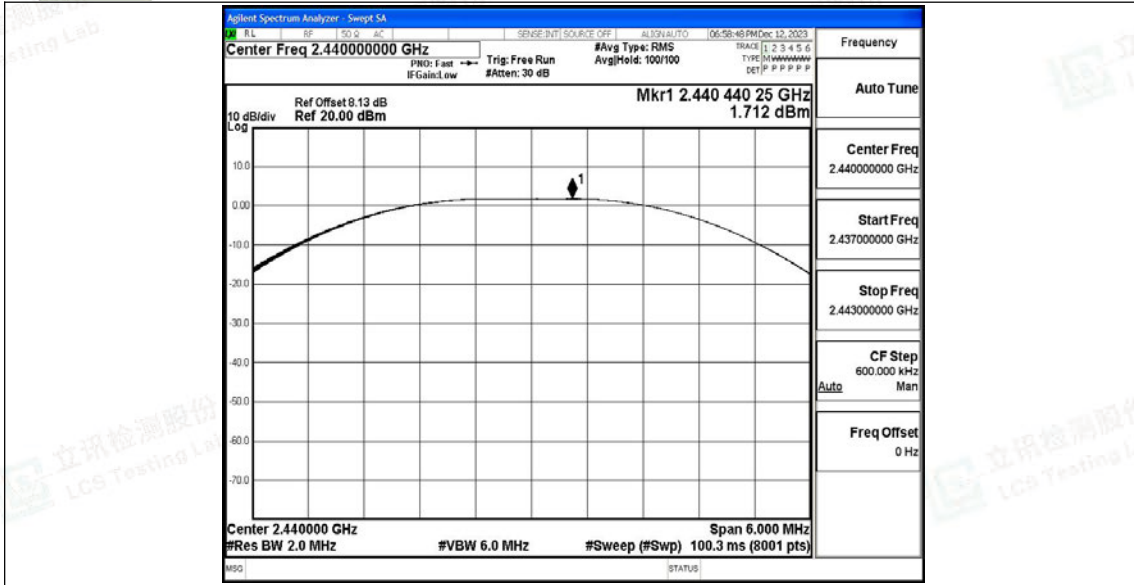


BLE_2M_Ant1_2402

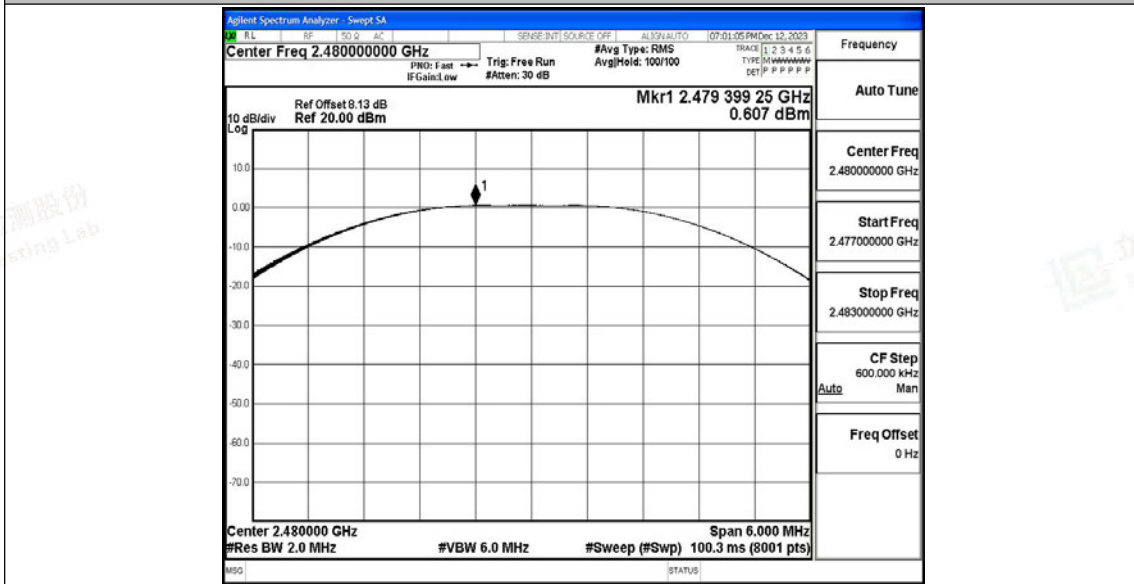


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480





B.3 Maximum power spectral density

Test Result

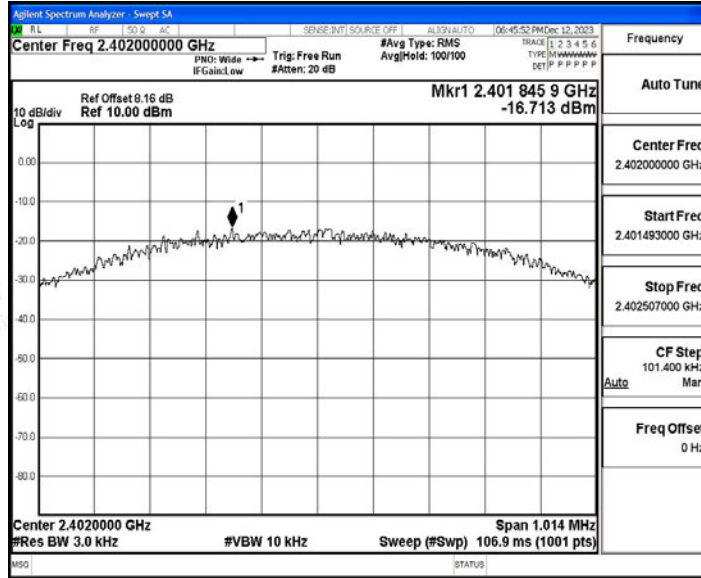
TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-16.71	≤8.00	PASS
		2440	-14.55	≤8.00	PASS
		2480	-15.76	≤8.00	PASS
BLE_2M	Ant1	2402	-19.95	≤8.00	PASS
		2440	-17.86	≤8.00	PASS
		2480	-18.97	≤8.00	PASS



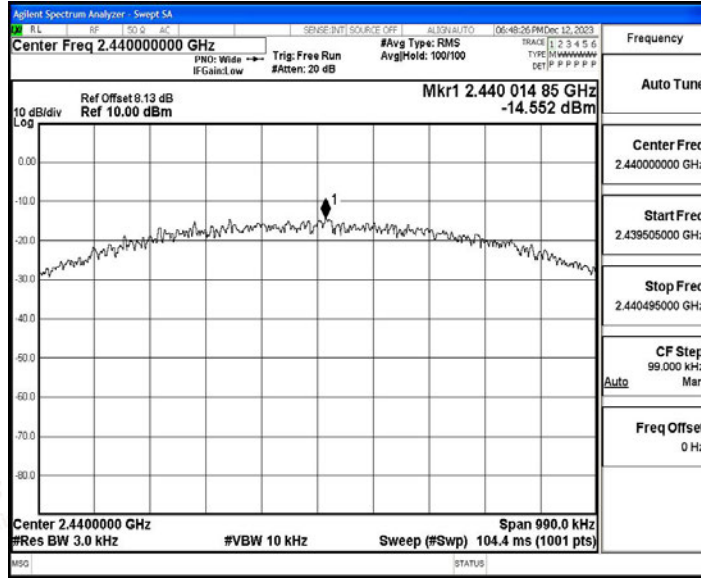


Test Graphs

BLE_1M_Ant1_2402

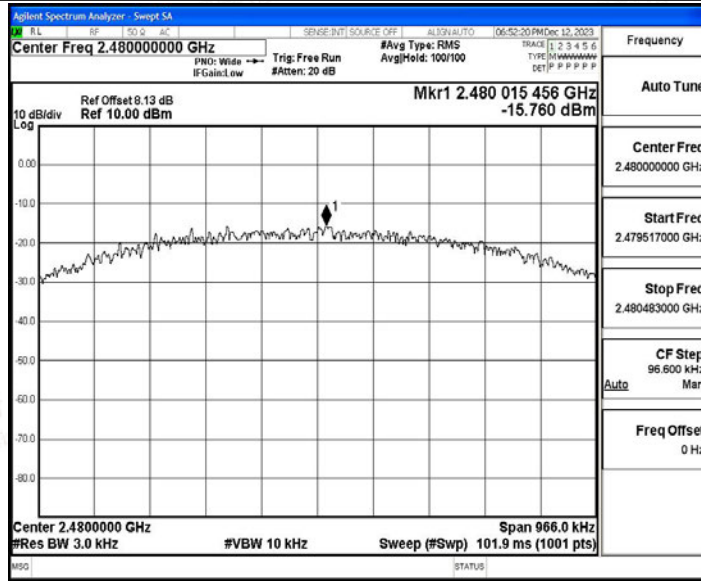


BLE_1M_Ant1_2440

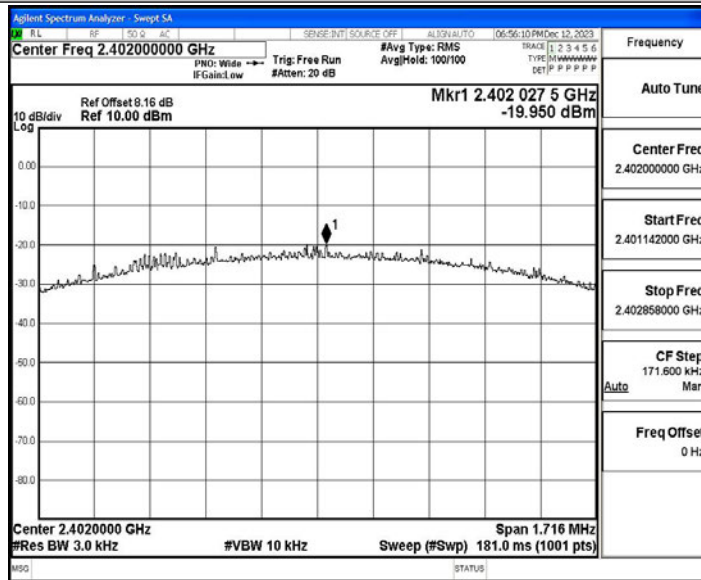


BLE_1M_Ant1_2480



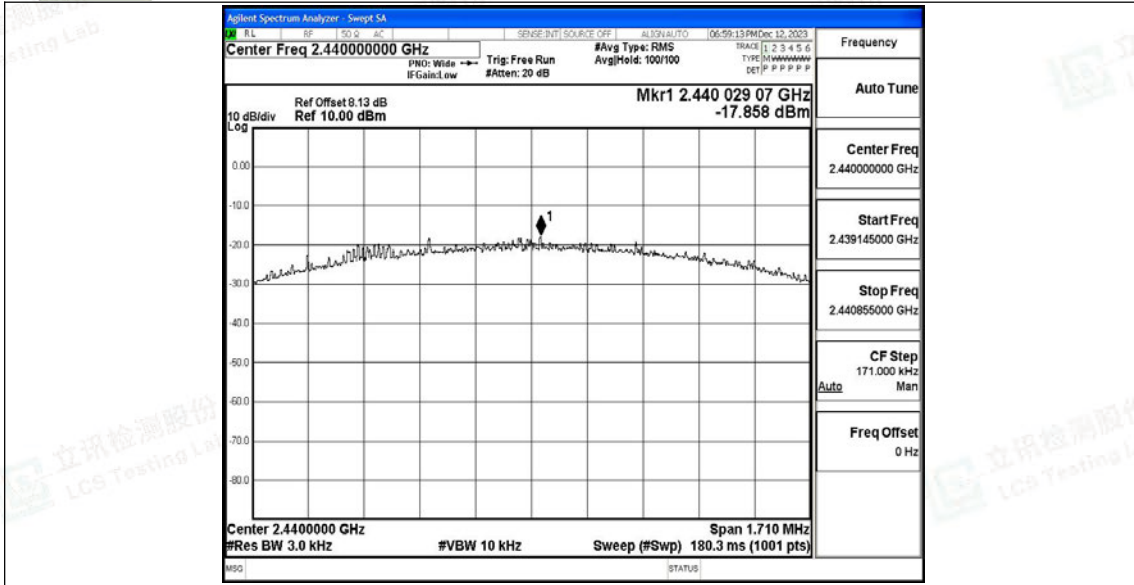


BLE_2M_Ant1_2402

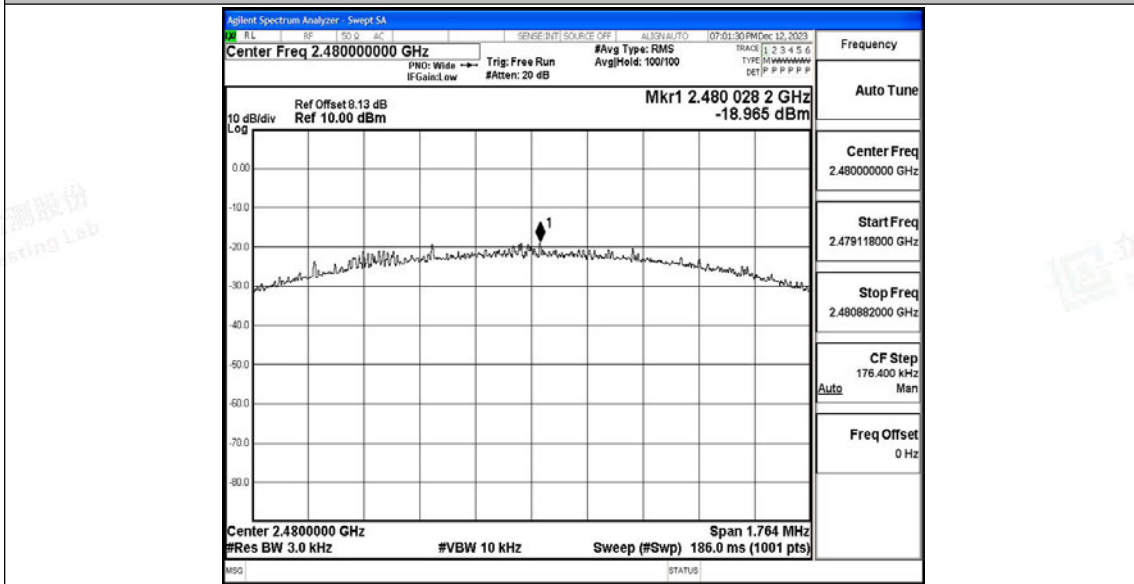


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480





B.4 Band edge measurements

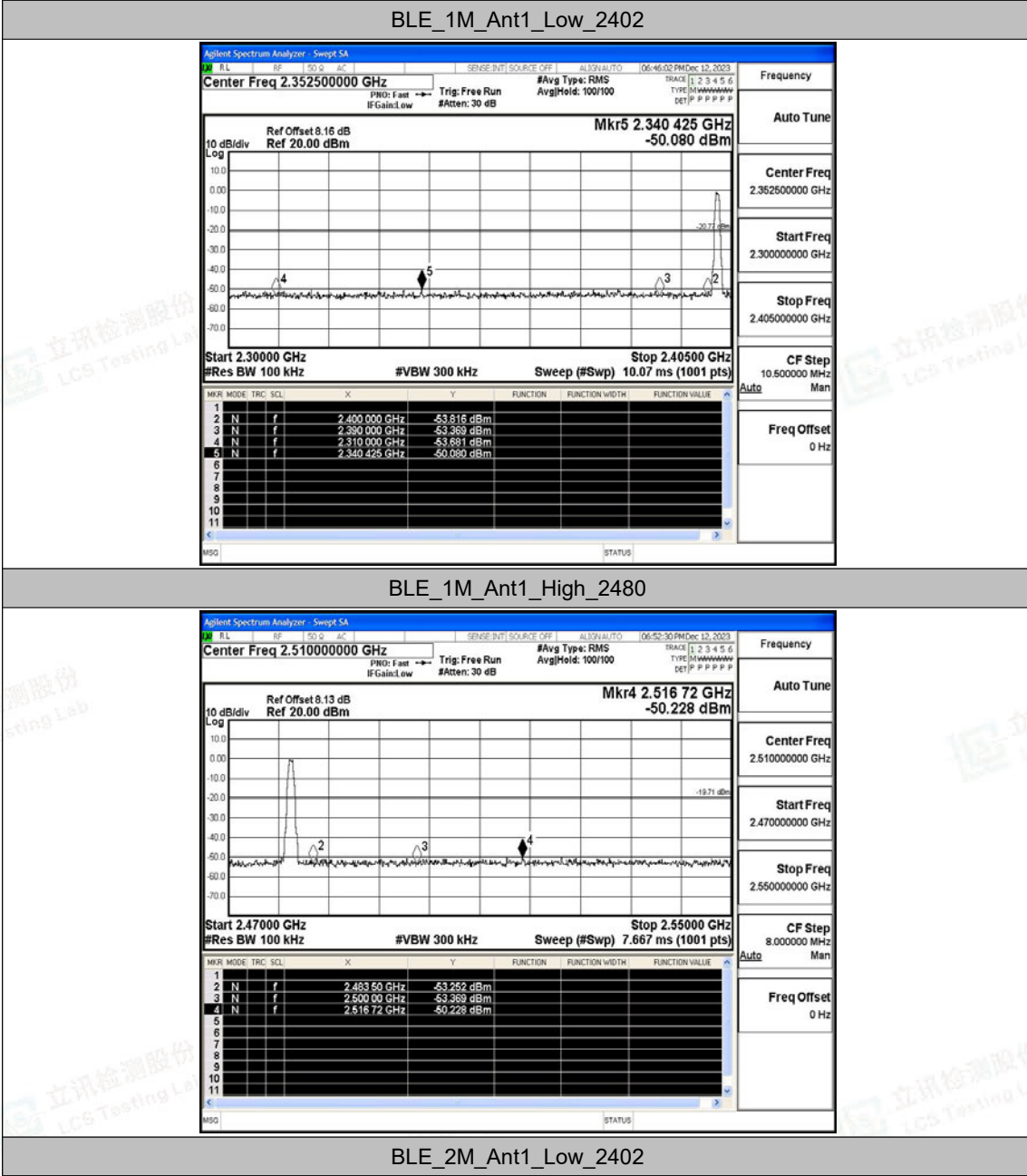
Test Result

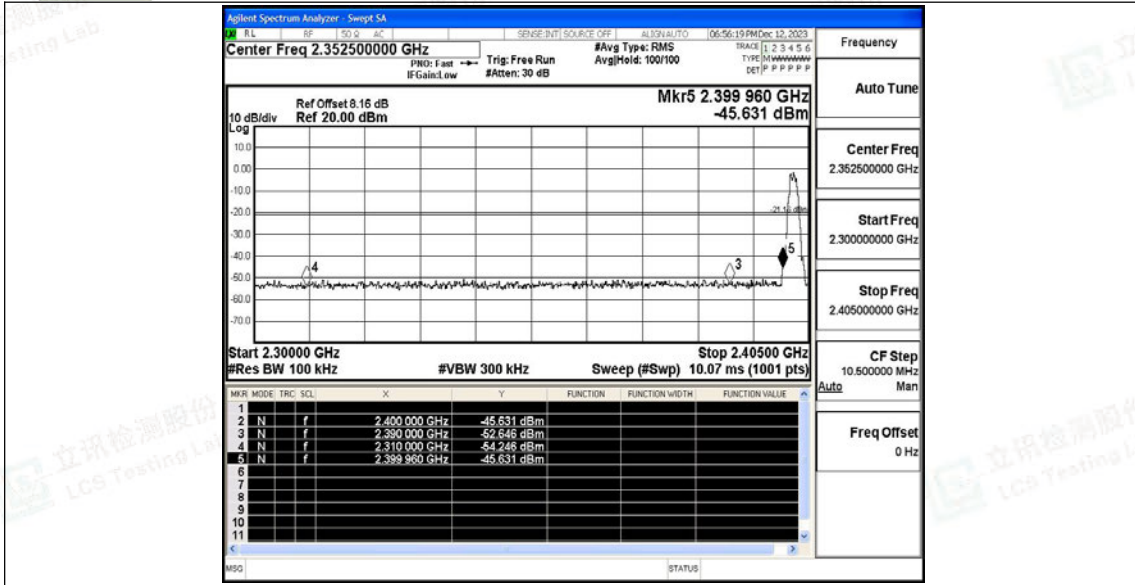
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.77	-50.08	≤-20.77	PASS
		High	2480	0.29	-50.23	≤-19.71	PASS
BLE_2M	Ant1	Low	2402	-1.16	-45.63	≤-21.16	PASS
		High	2480	0.00	-49.44	≤-20	PASS



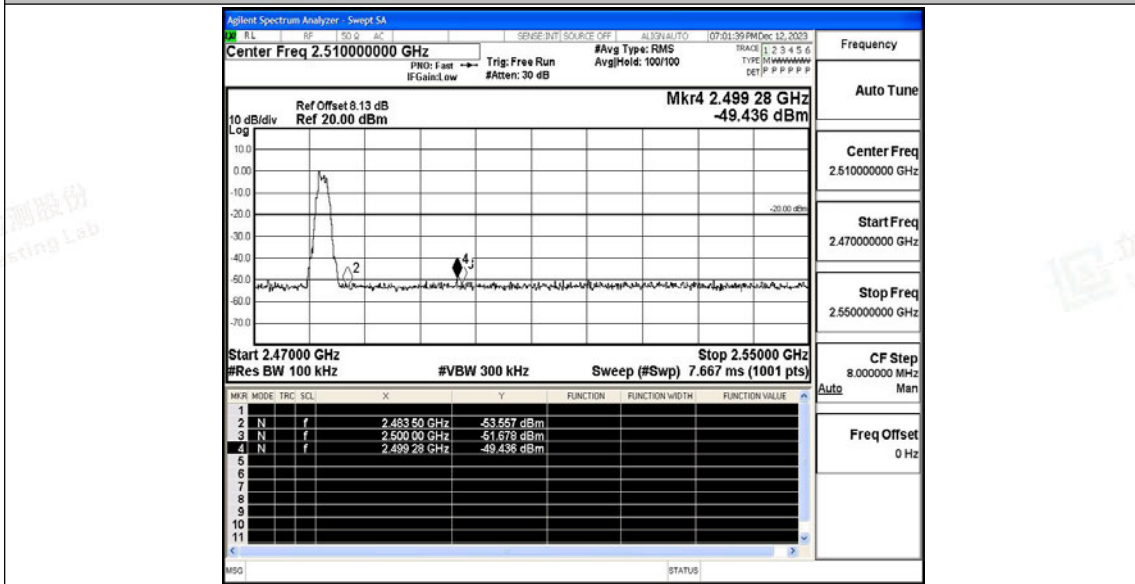


Test Graphs





BLE_2M_Ant1_High_2480





B.5 Conducted Spurious Emission

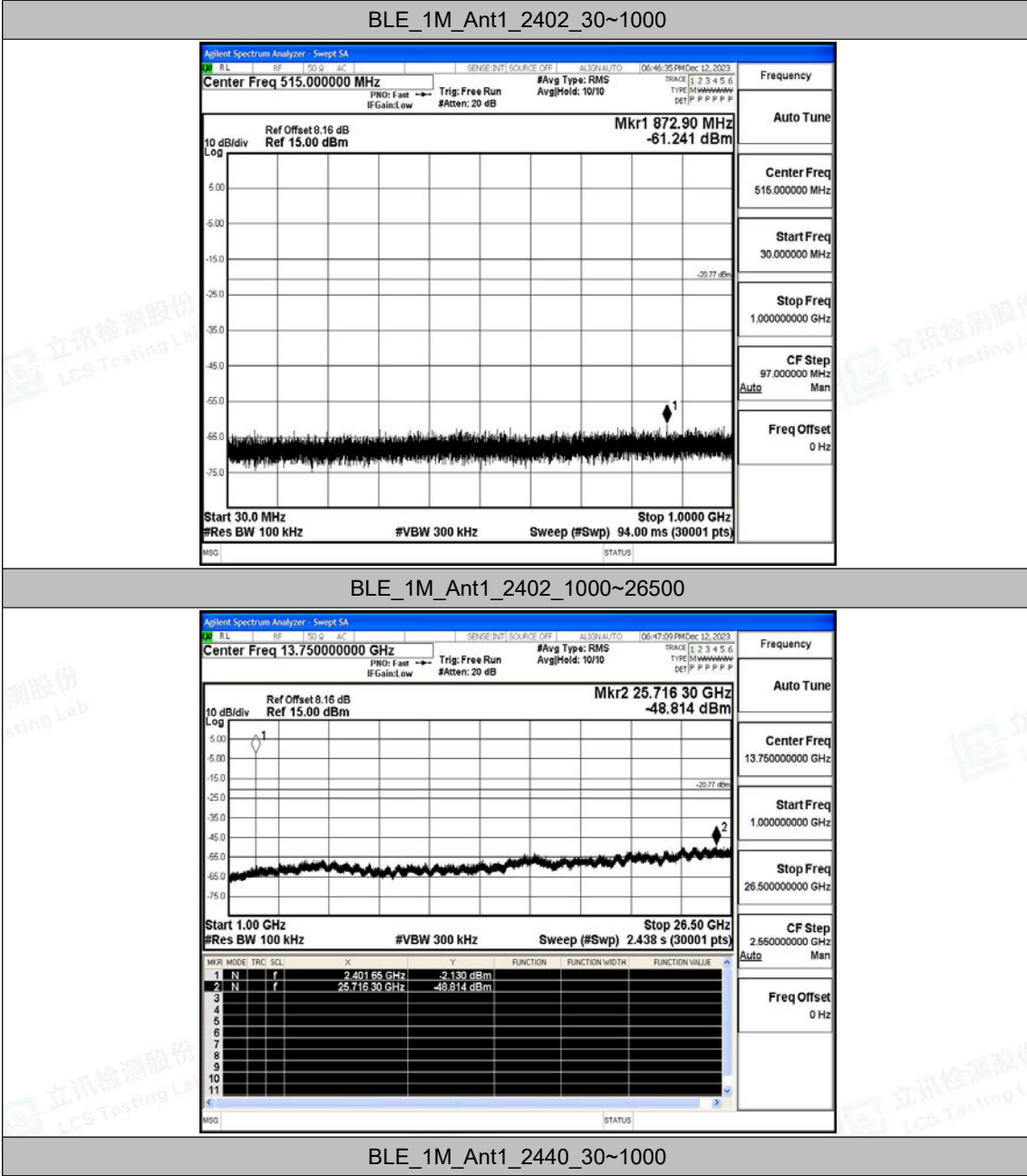
Test Result

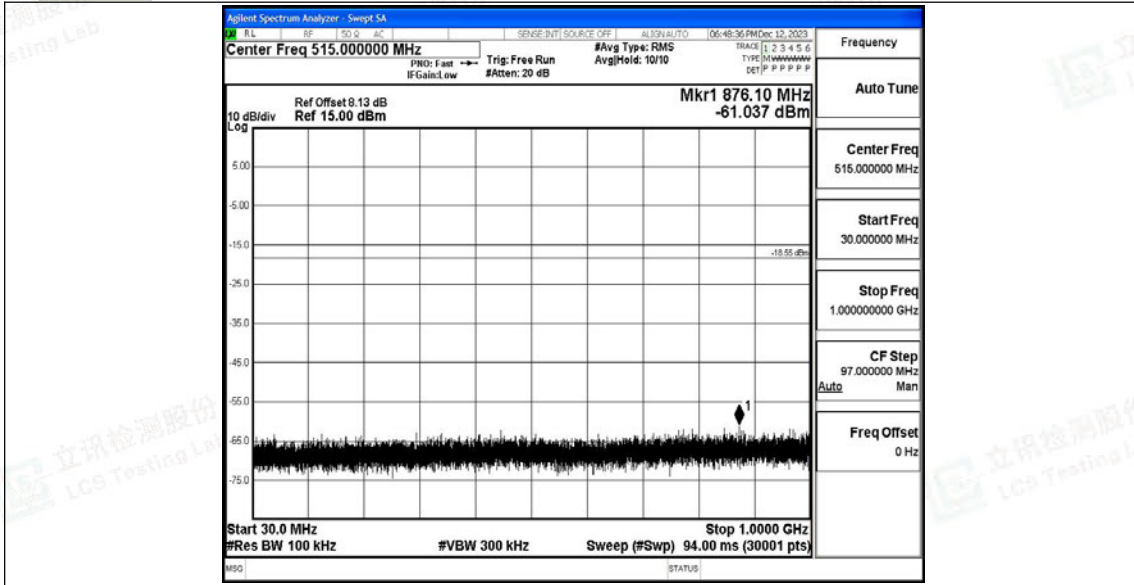
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	30~1000	-0.77	-61.24	≤-20.77	PASS
			1000~26500	-0.77	-48.81	≤-20.77	PASS
		2440	30~1000	1.45	-61.04	≤-18.55	PASS
			1000~26500	1.45	-48.69	≤-18.55	PASS
		2480	30~1000	0.29	-61.62	≤-19.71	PASS
			1000~26500	0.29	-48.77	≤-19.71	PASS
BLE_2M	Ant1	2402	30~1000	-1.16	-61.75	≤-21.16	PASS
			1000~26500	-1.16	-49.29	≤-21.16	PASS
		2440	30~1000	1.19	-62.05	≤-18.81	PASS
			1000~26500	1.19	-49.13	≤-18.81	PASS
		2480	30~1000	0.00	-61.36	≤-20	PASS
			1000~26500	0.00	-49.3	≤-20	PASS



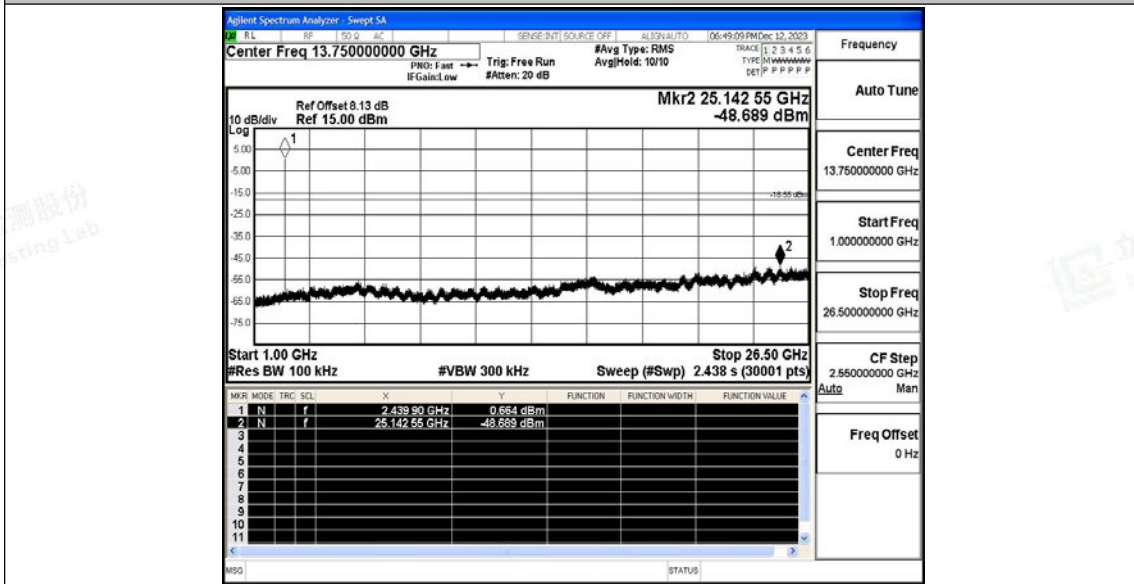


Test Graphs



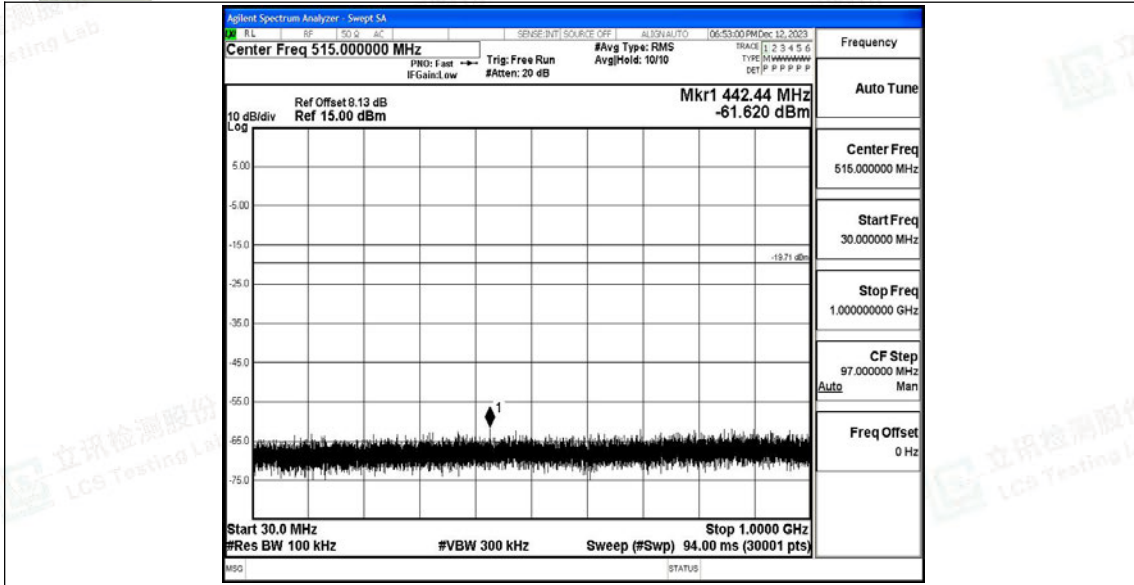


BLE_1M_Ant1_2440_1000~26500

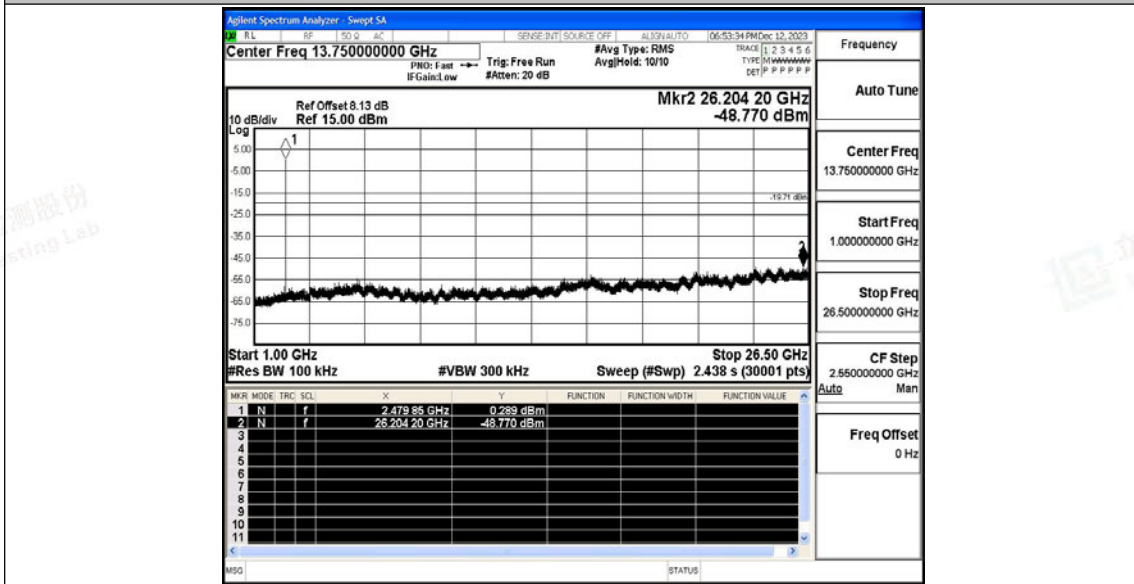


BLE_1M_Ant1_2480_30~1000



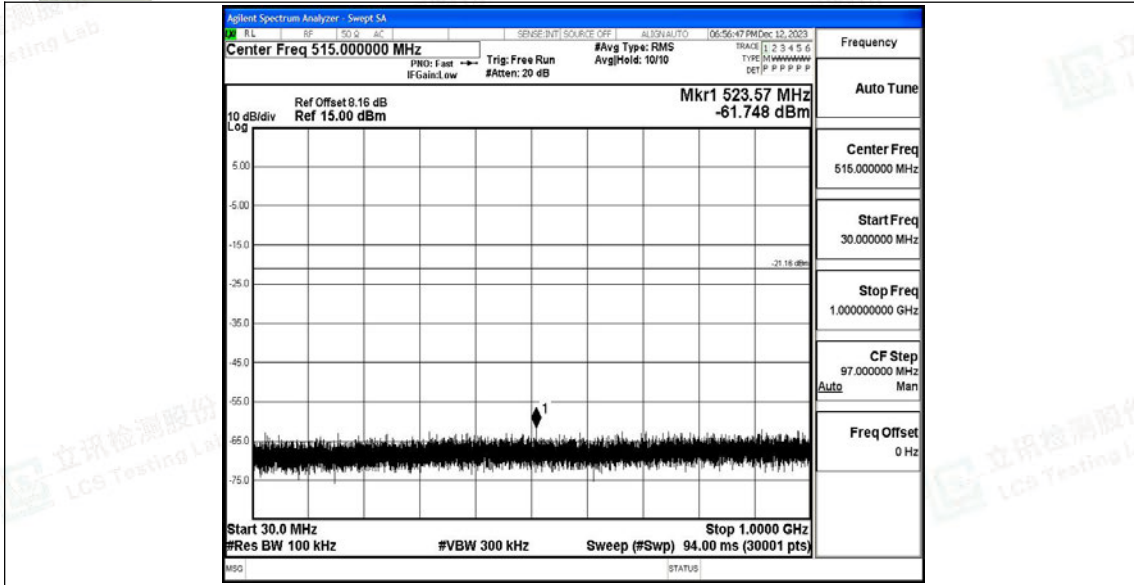


BLE_1M_Ant1_2480_1000~26500

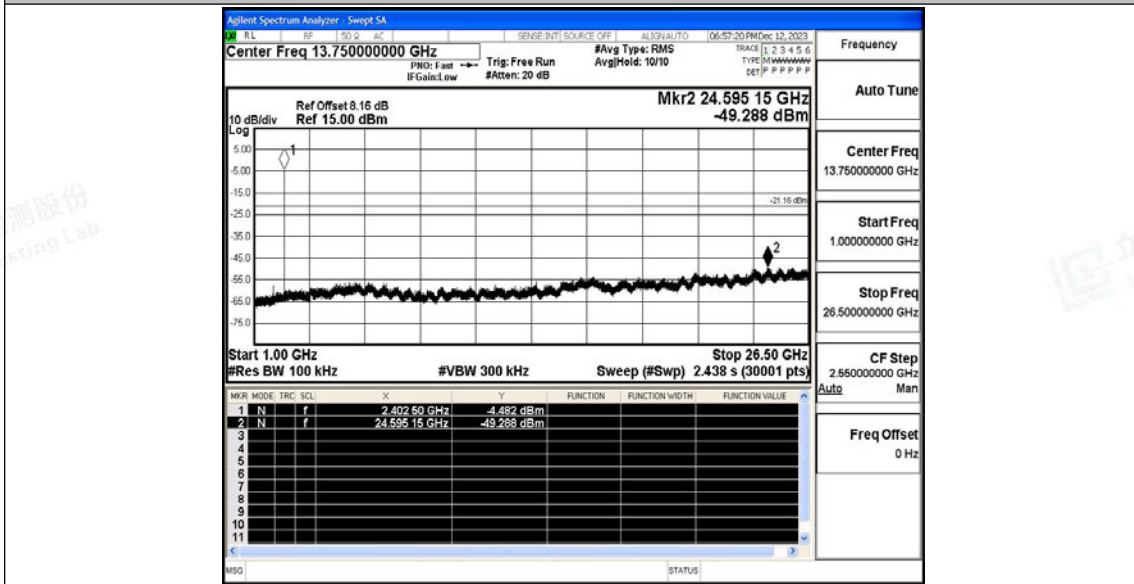


BLE_2M_Ant1_2402_30~1000



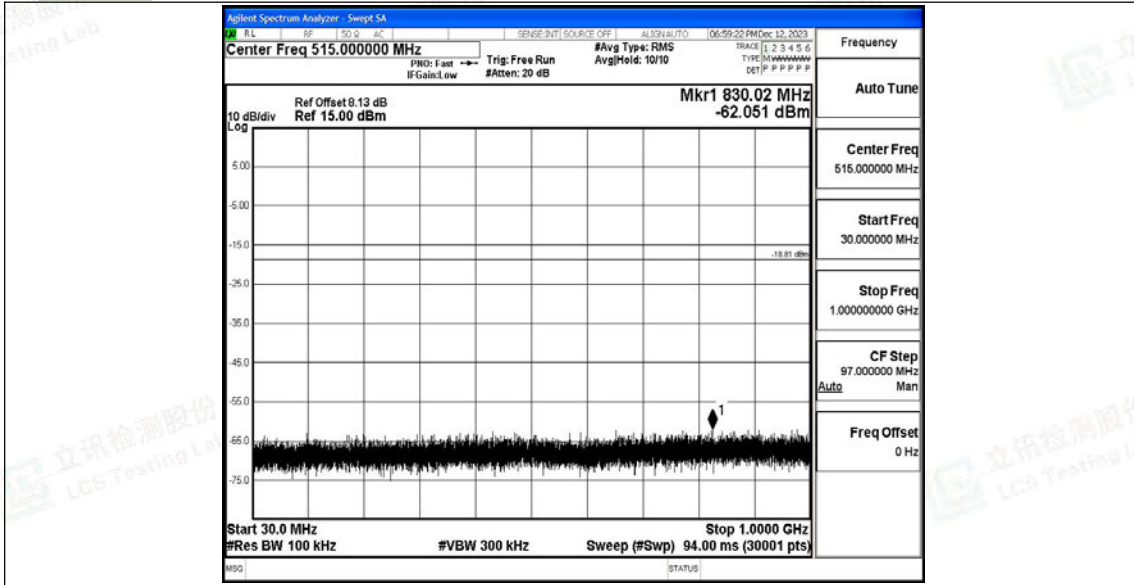


BLE_2M_Ant1_2402_1000~26500

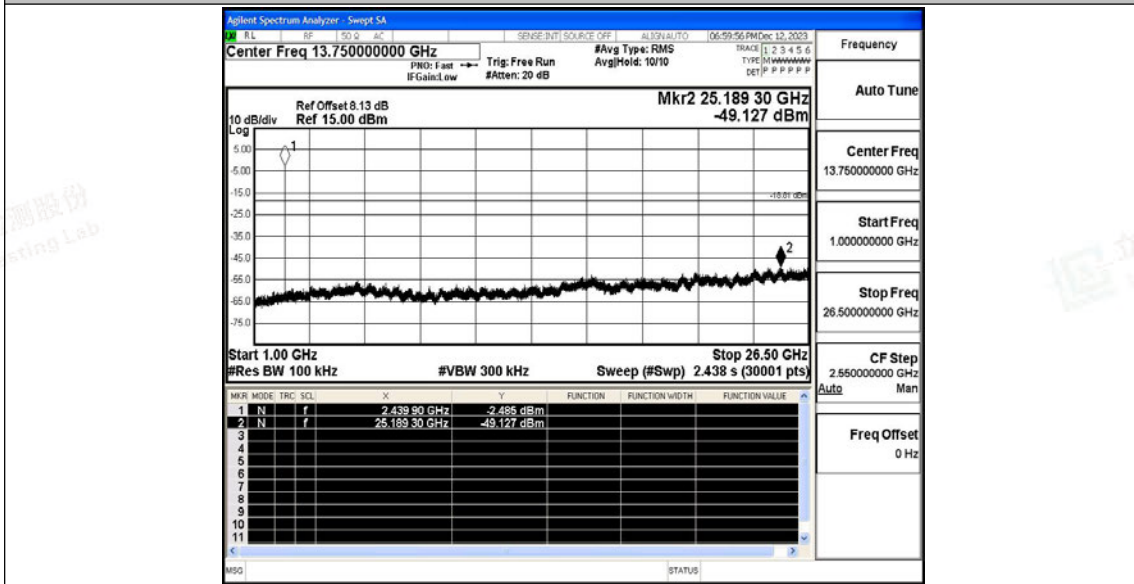


BLE_2M_Ant1_2440_30~1000



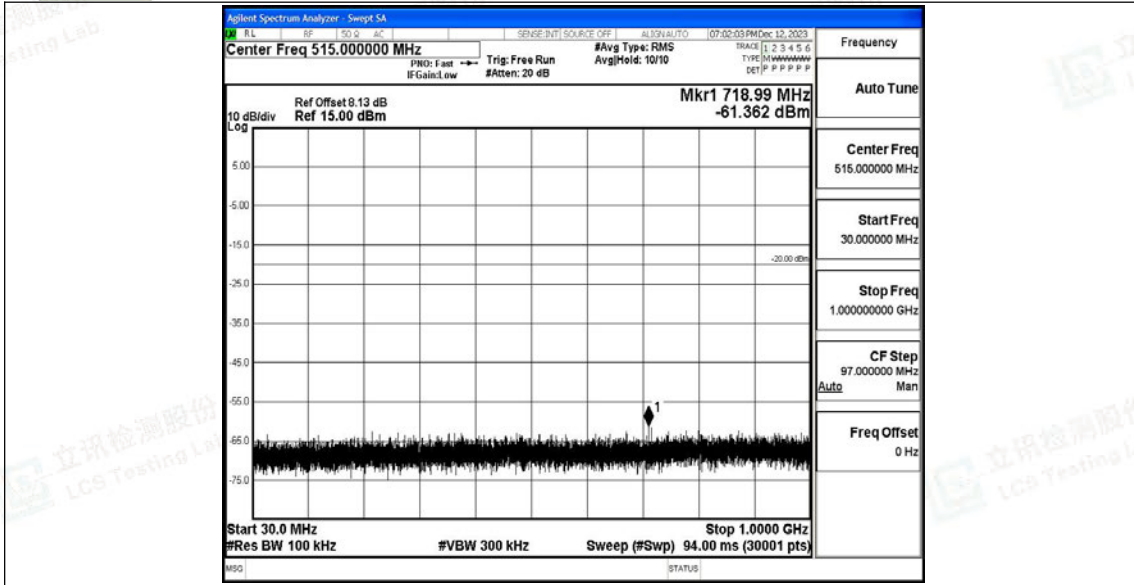


BLE_2M_Ant1_2440_1000~26500

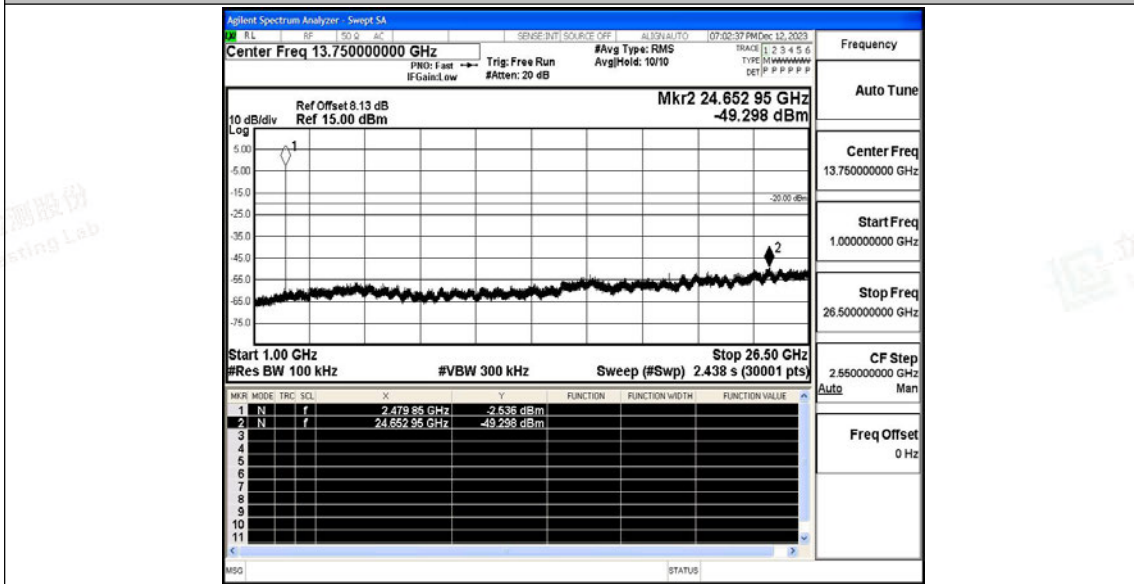


BLE_2M_Ant1_2480_30~1000





BLE_2M_Ant1_2480_1000~26500





Reference level measurement

Test Result

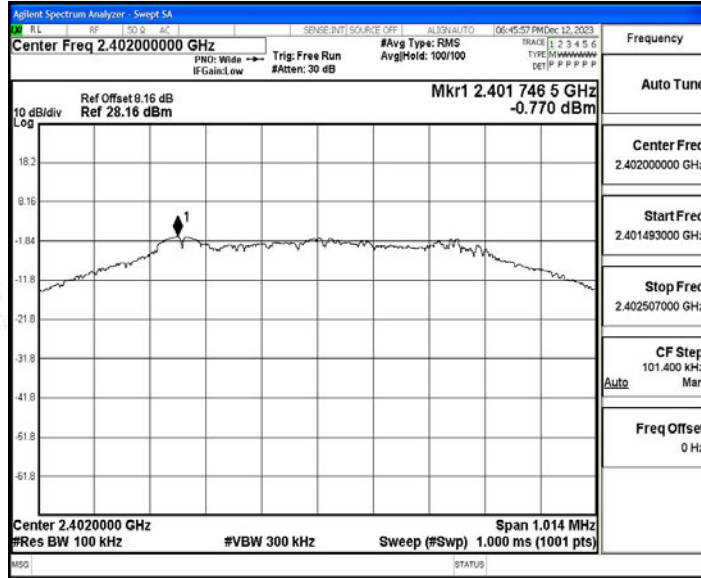
TestMode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
BLE_1M	Ant1	2402	2401.75	-0.77
		2440	2439.75	1.45
		2480	2479.75	0.29
BLE_2M	Ant1	2402	2401.51	-1.16
		2440	2439.50	1.19
		2480	2479.51	0.00



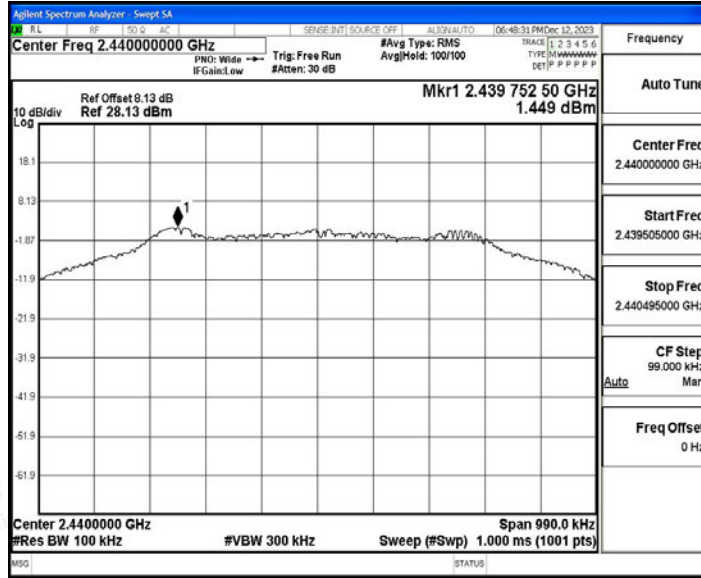


Test Graphs

BLE_1M_Ant1_2402

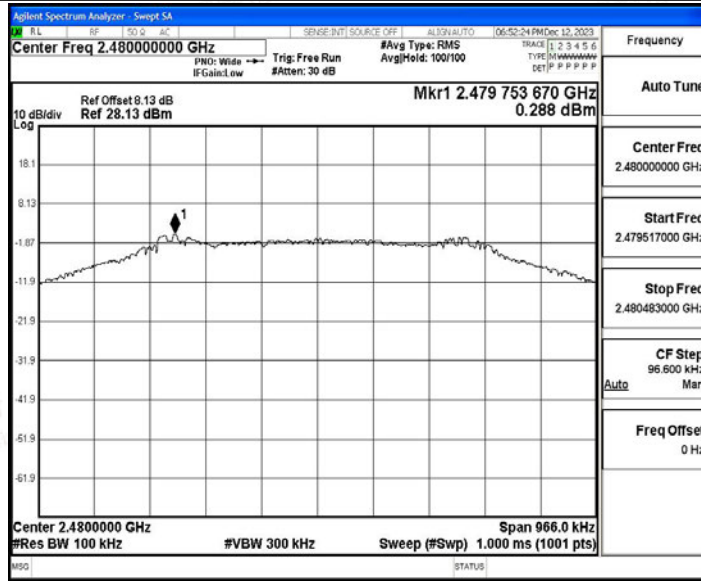


BLE_1M_Ant1_2440

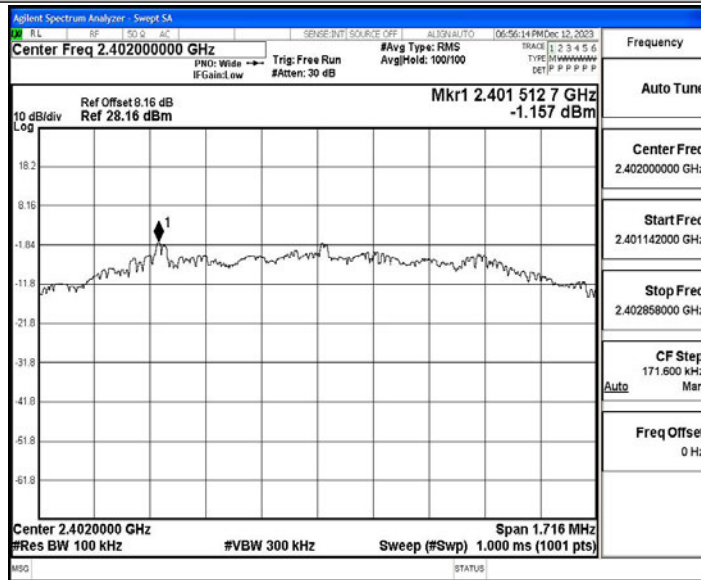


BLE_1M_Ant1_2480



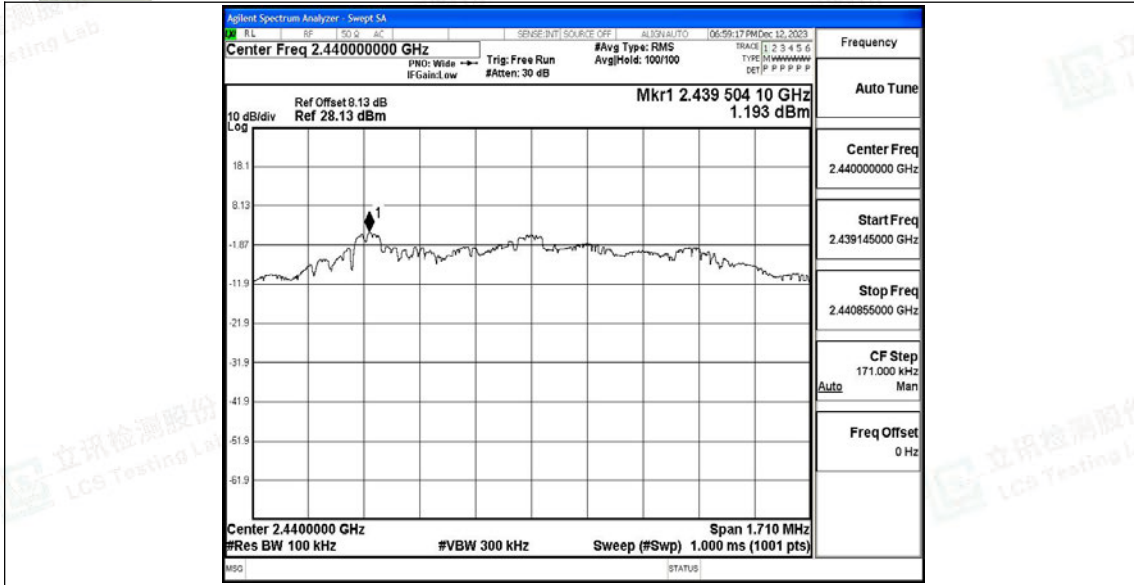


BLE_2M_Ant1_2402

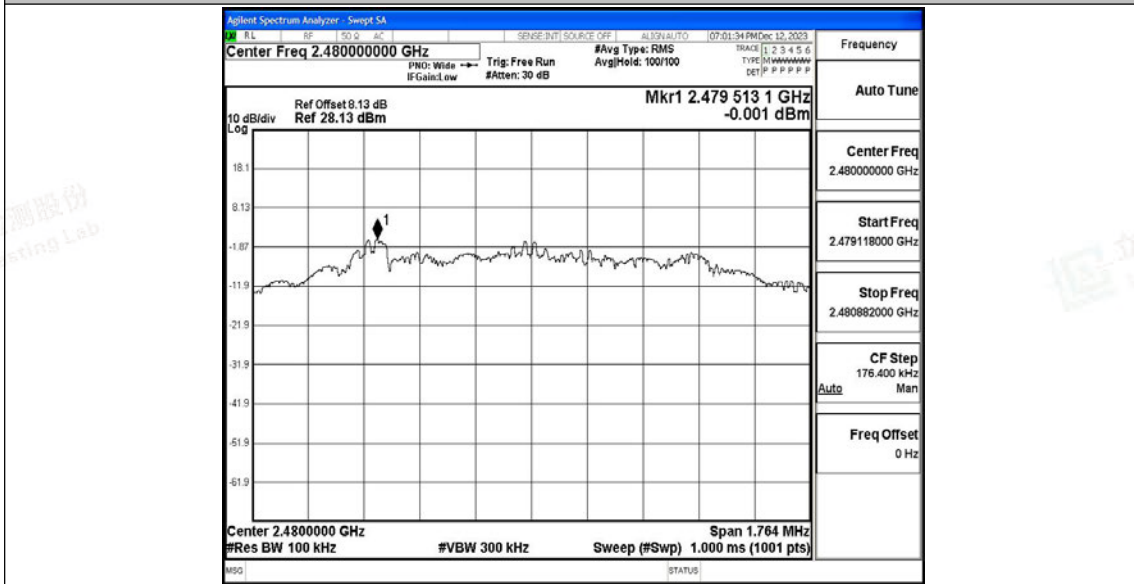


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480





B.6 Duty Cycle

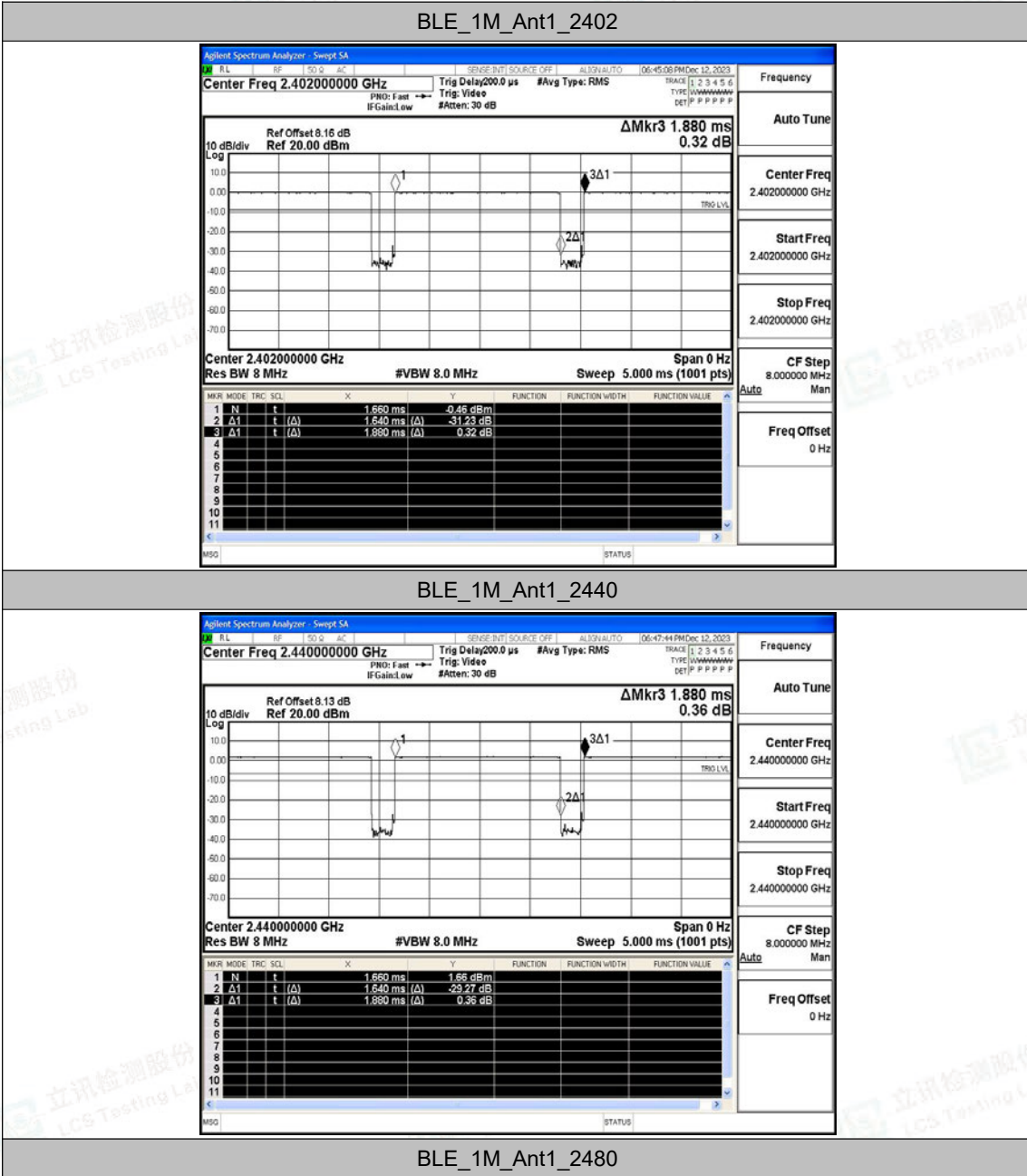
Test Result

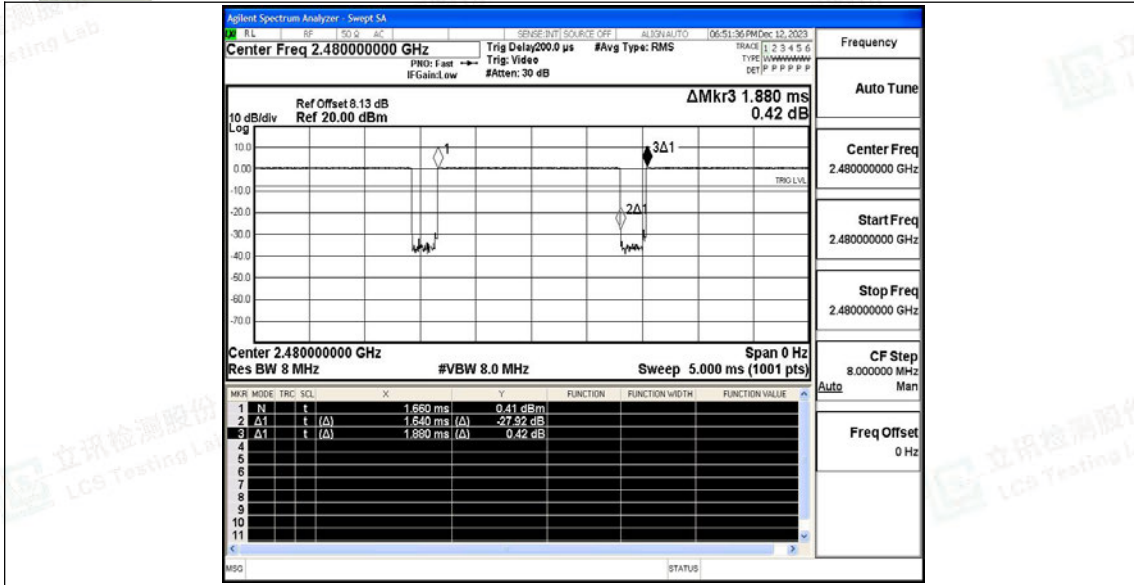
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[dB]
BLE_1M	Ant1	2402	1.64	1.88	87.23	0.59	0.61
		2440	1.64	1.88	87.23	0.59	0.61
		2480	1.64	1.88	87.23	0.59	0.61
BLE_2M	Ant1	2402	0.83	1.25	66.40	1.78	1.20
		2440	0.83	1.25	66.40	1.78	1.20
		2480	0.83	1.25	66.40	1.78	1.20



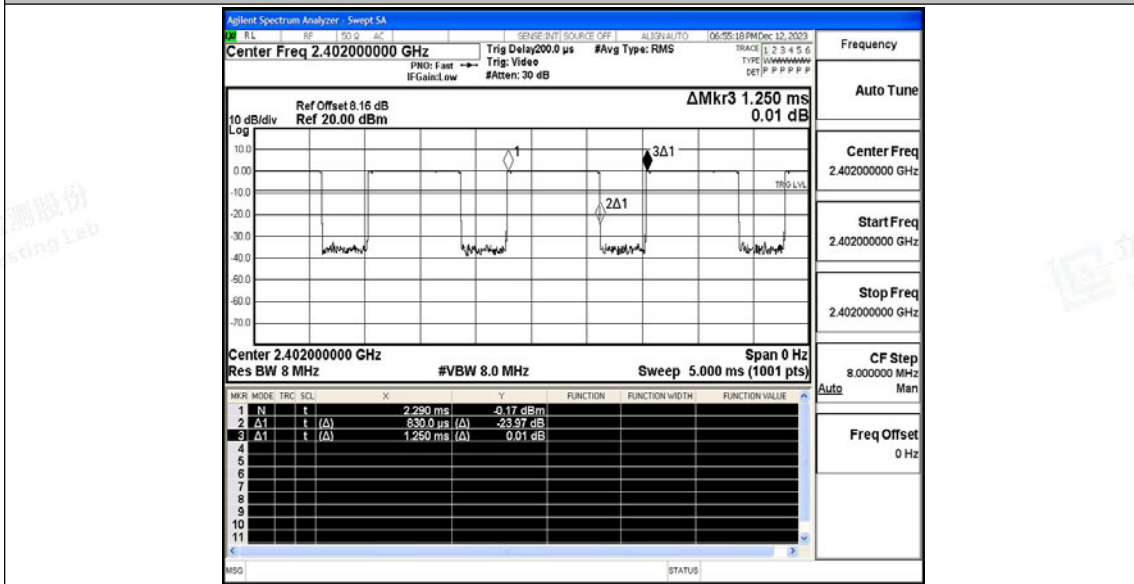


Test Graphs



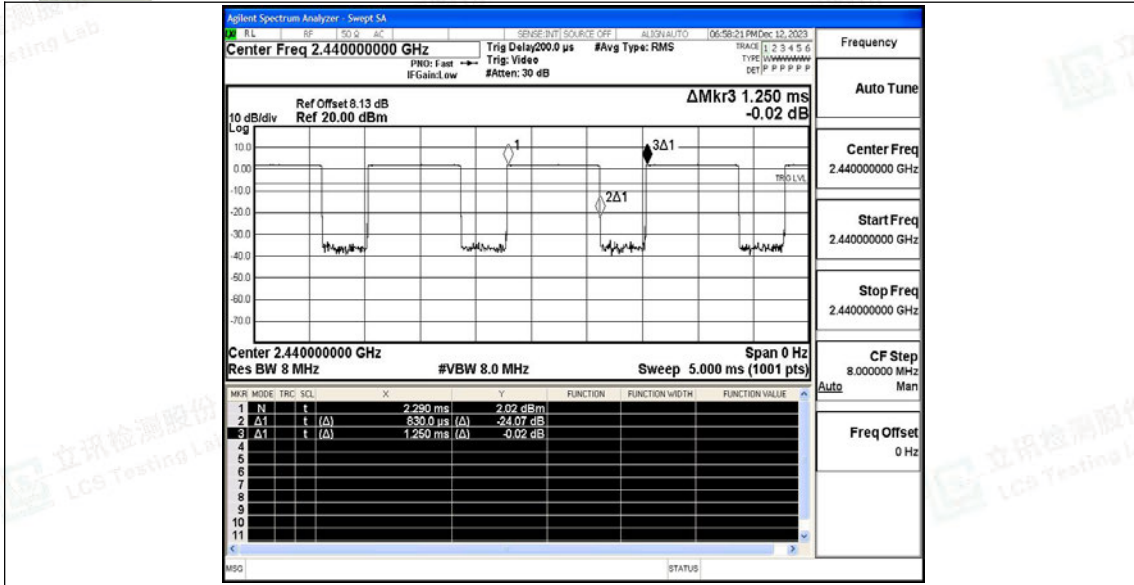


BLE_2M_Ant1_2402

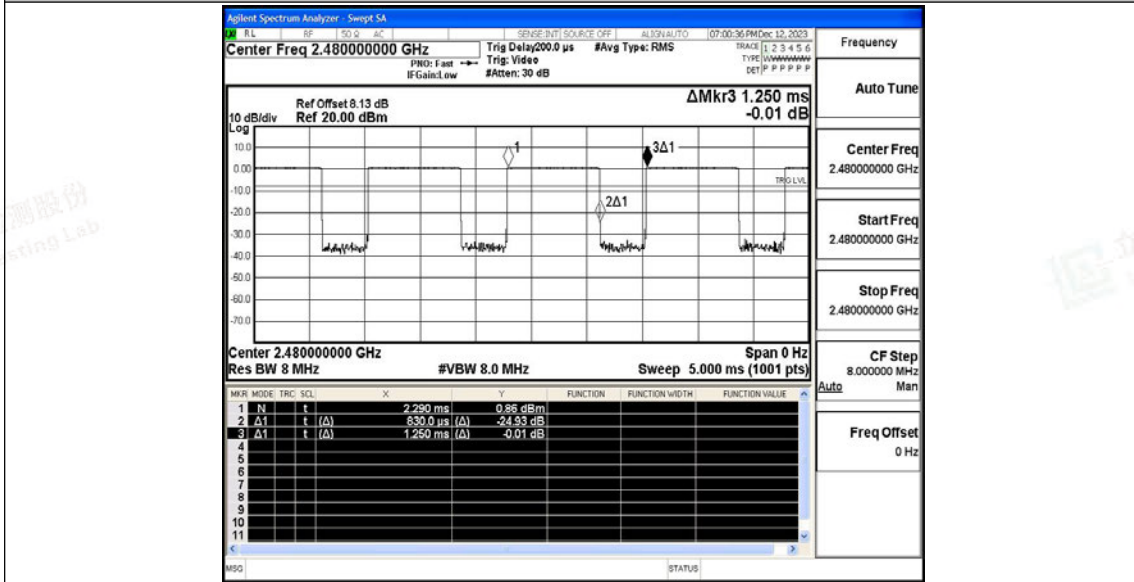


BLE_2M_Ant1_2440





BLE_2M_Ant1_2480





B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2377.595	-48.51	≤-41.20	46.69	≤54	PASS
				AV	2390.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2310.000	-42	≤-21.20	53.20	≤74	PASS
				Peak	2388.305	-38.57	≤-21.20	56.63	≤74	PASS
				Peak	2390.000	-40.54	≤-21.20	54.66	≤74	PASS
		High	2480	AV	2483.500	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2483.520	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2500.000	-48.53	≤-41.20	46.67	≤54	PASS
				Peak	2483.500	-40.46	≤-21.20	54.74	≤74	PASS
				Peak	2494.240	-38.83	≤-21.20	56.37	≤74	PASS
				Peak	2500.000	-41.03	≤-21.20	54.17	≤74	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-48.79	≤-41.20	46.41	≤54	PASS
				AV	2375.075	-48.22	≤-41.20	46.98	≤54	PASS
				AV	2390.000	-48.47	≤-41.20	46.73	≤54	PASS
				Peak	2310.000	-41.3	≤-21.20	53.90	≤74	PASS
				Peak	2320.055	-38.63	≤-21.20	56.57	≤74	PASS
				Peak	2390.000	-41.62	≤-21.20	53.58	≤74	PASS
		High	2480	AV	2483.500	-46.9	≤-41.20	48.30	≤54	PASS
				AV	2483.520	-46.9	≤-41.20	48.30	≤54	PASS
				AV	2500.000	-48.38	≤-41.20	46.82	≤54	PASS
				Peak	2483.500	-40.57	≤-21.20	54.63	≤74	PASS
				Peak	2492.800	-38.06	≤-21.20	57.14	≤74	PASS
				Peak	2500.000	-42.38	≤-21.20	52.82	≤74	PASS

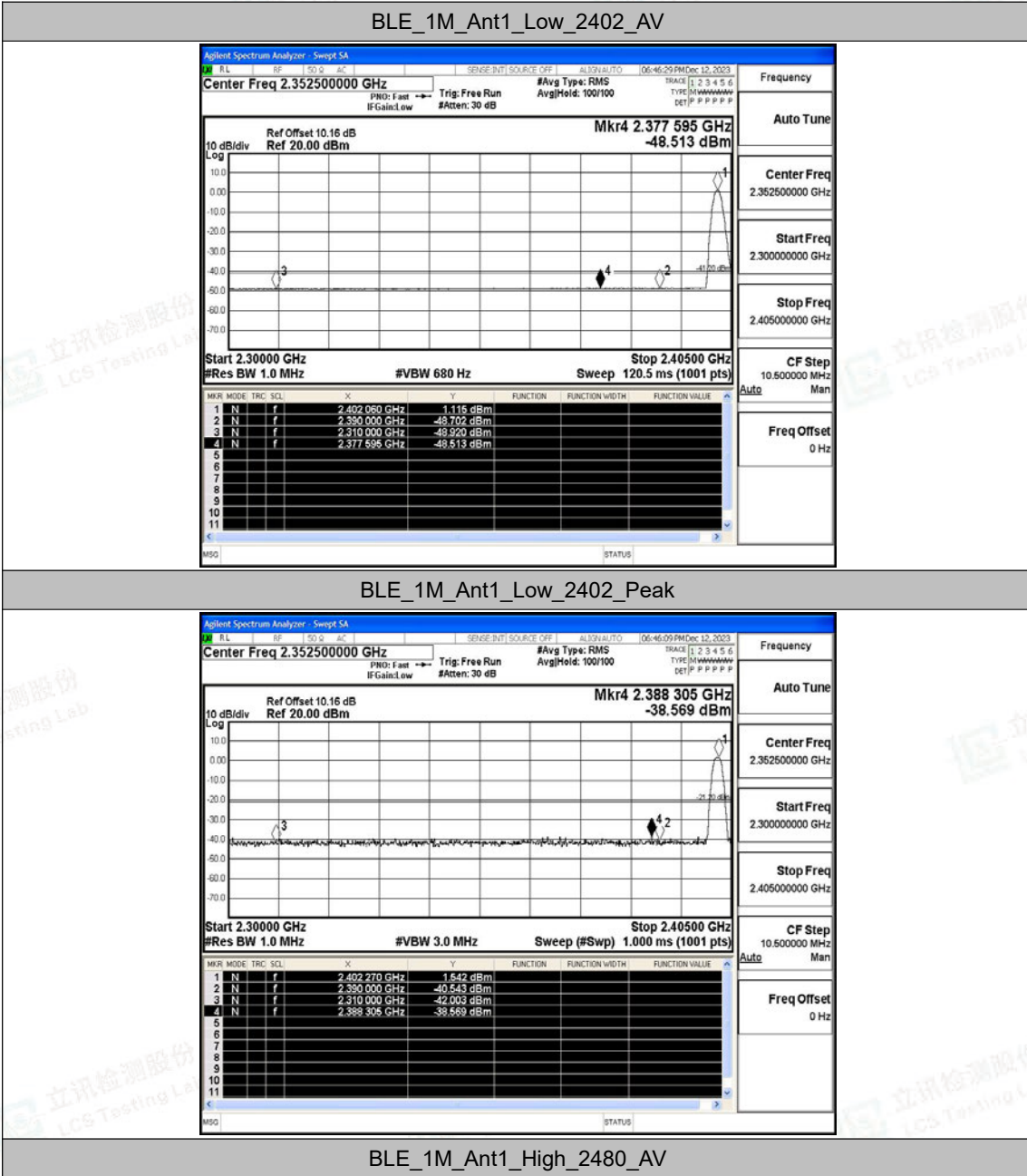
Note:

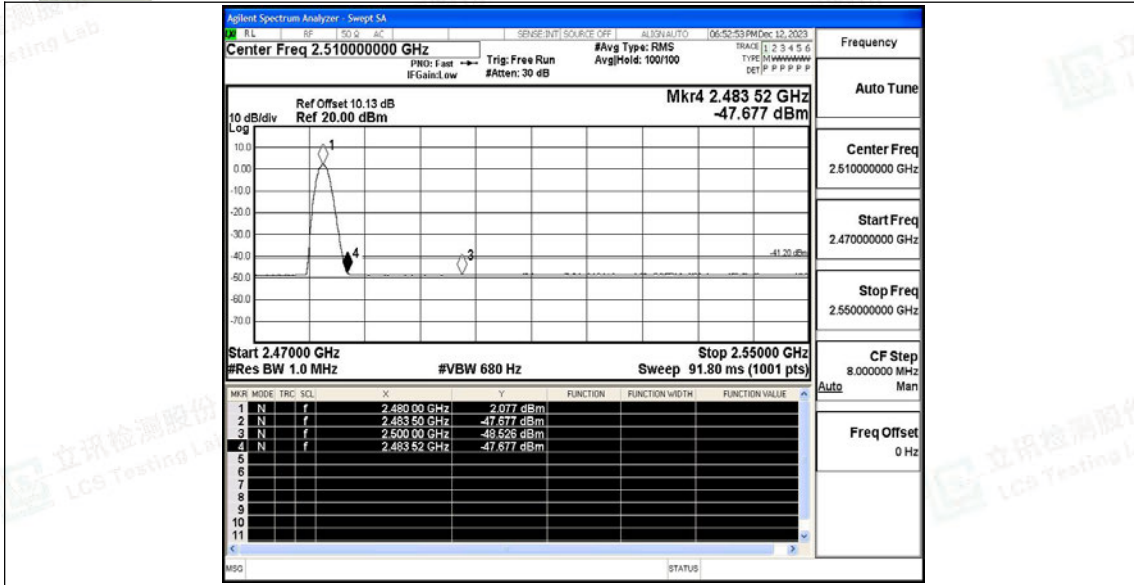
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



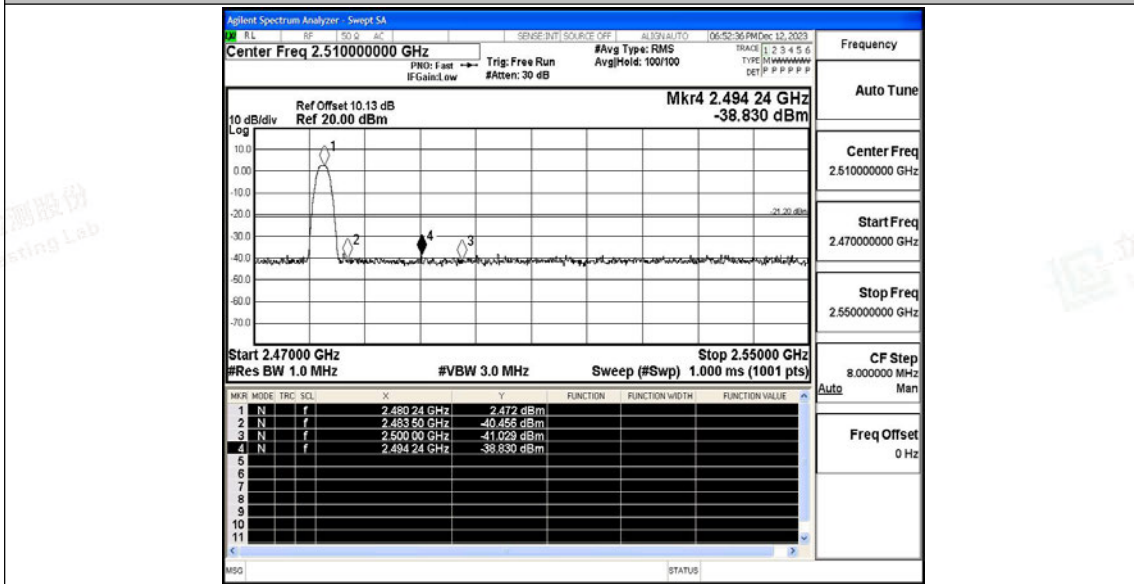


Test Graphs



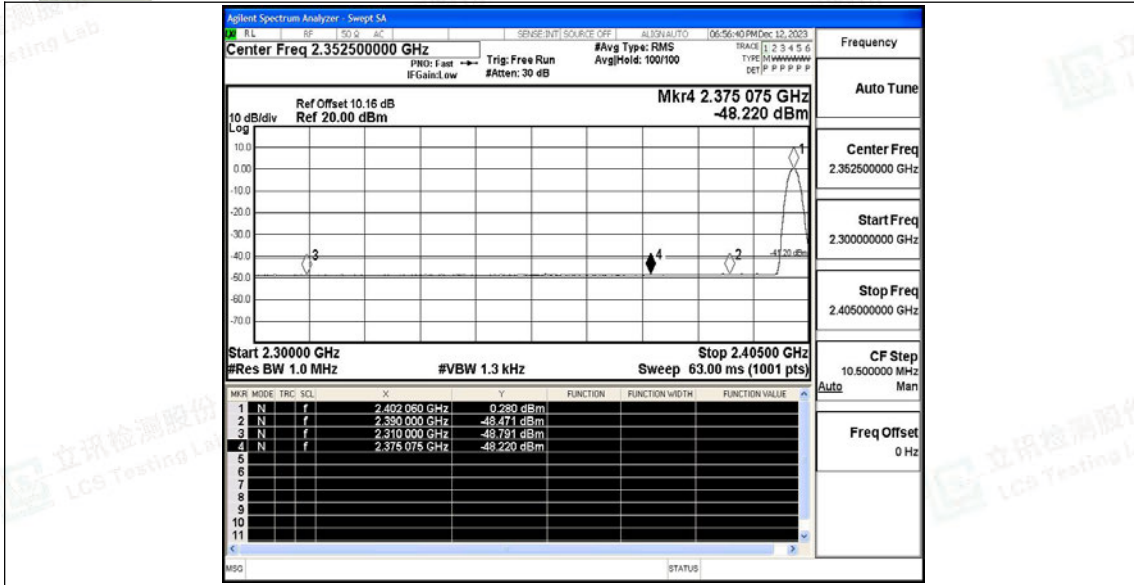


BLE_1M_Ant1_High_2480_Peak

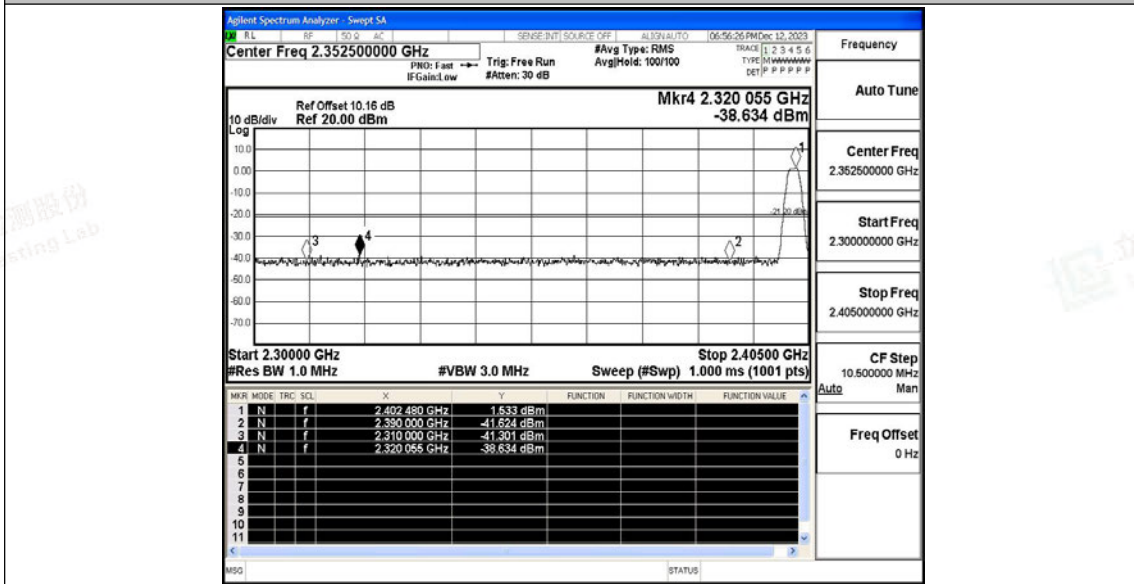


BLE_2M_Ant1_Low_2402_AV



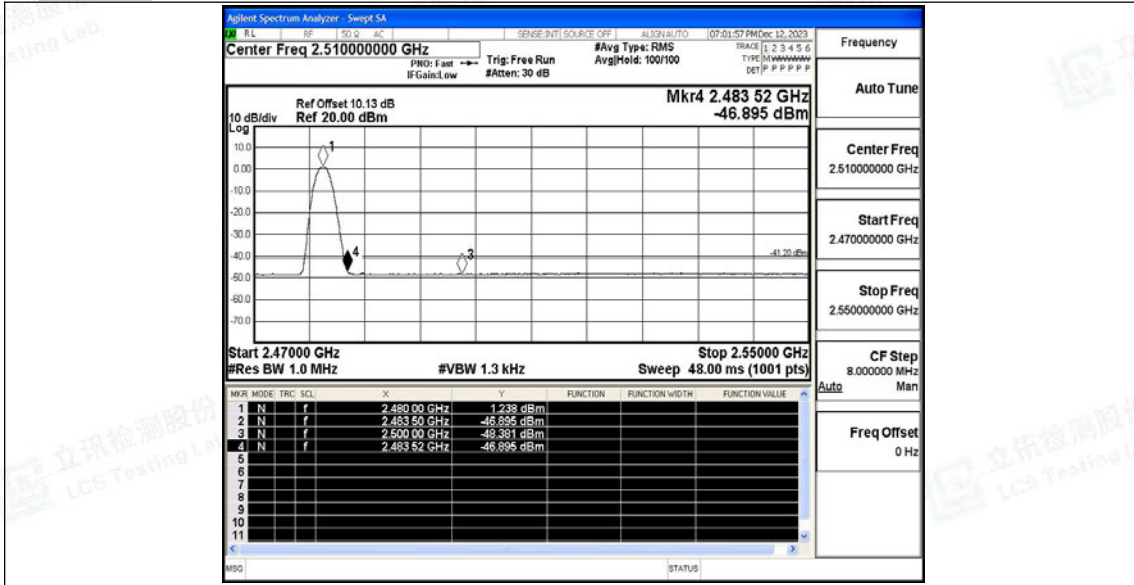


BLE_2M_Ant1_Low_2402_Peak



BLE_2M_Ant1_High_2480_AV





BLE_2M_Ant1_High_2480_Peak

