



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: TABLET PC

Test Model: BELLATRIX

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	<i>Taylor Hu</i> Taylor Hu
Supervised by:	<i>Li Huan</i> Li Huan





B.1 DTS Bandwidth

Test Result

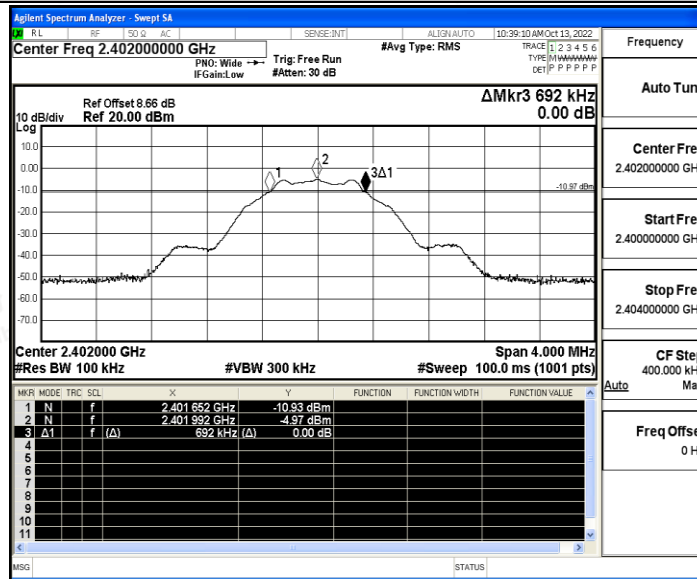
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.692	2401.652	2402.344	0.5	PASS
		2440	0.696	2439.648	2440.344	0.5	PASS
		2480	0.692	2479.648	2480.340	0.5	PASS



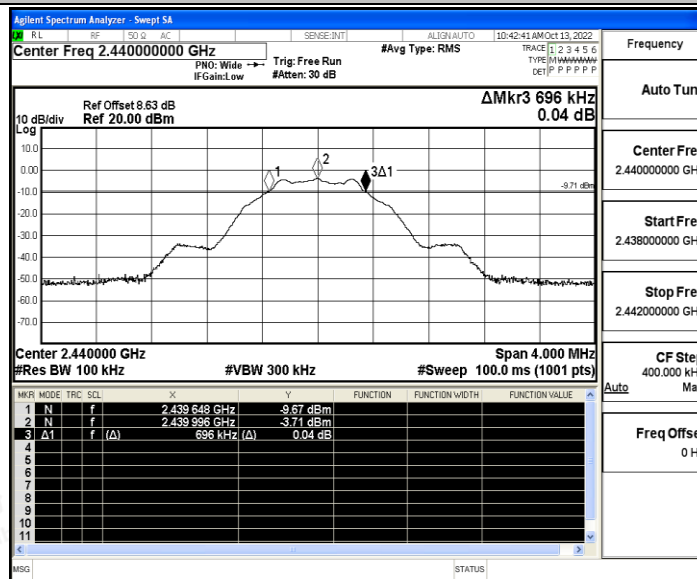


Test Graphs

BLE_Ant_2402

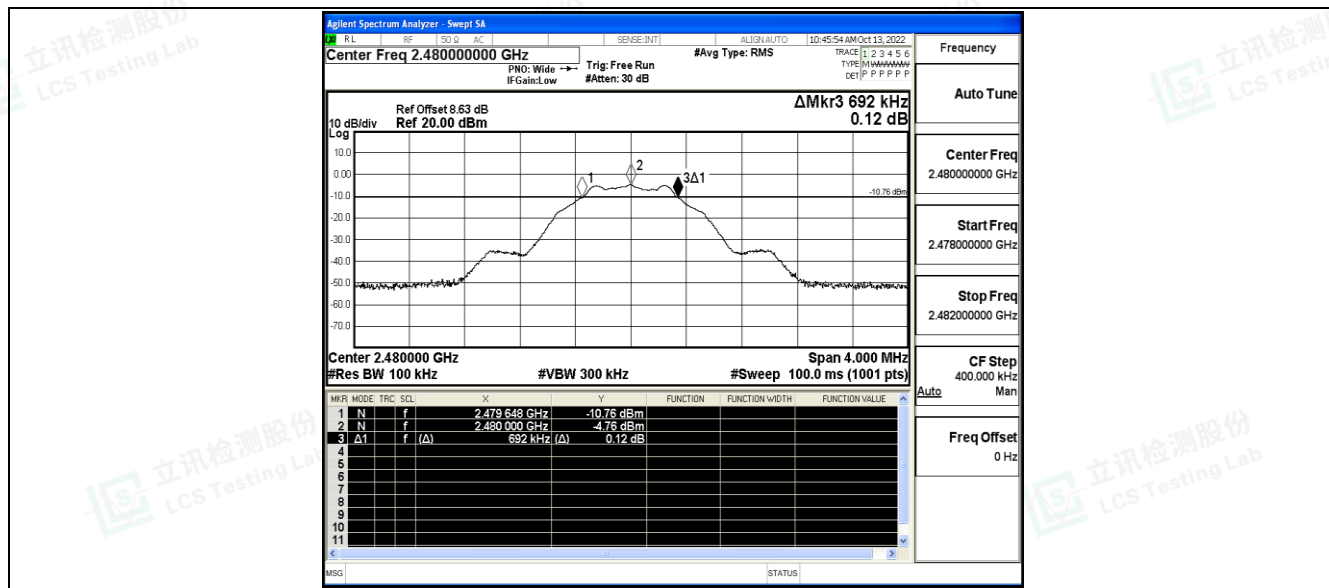


BLE_Ant_2440



BLE_Ant_2480







B.2 Maximum conducted output power

Test Result

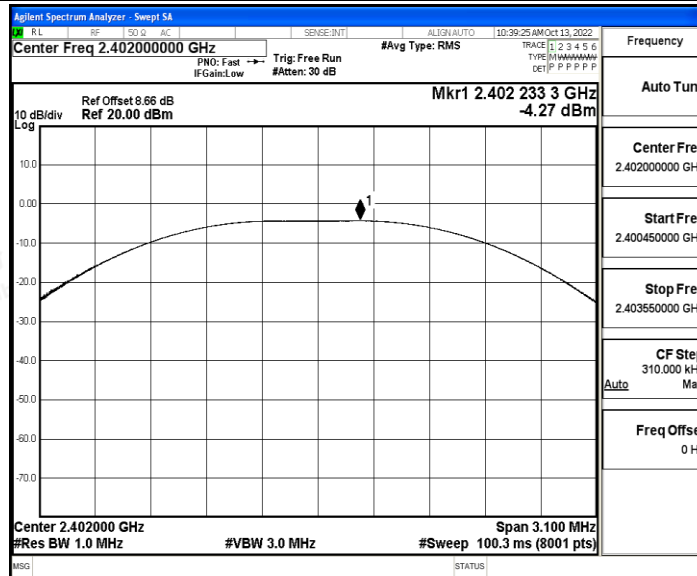
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	-4.28	≤30	PASS
		2440	-3.09	≤30	PASS
		2480	-4.05	≤30	PASS



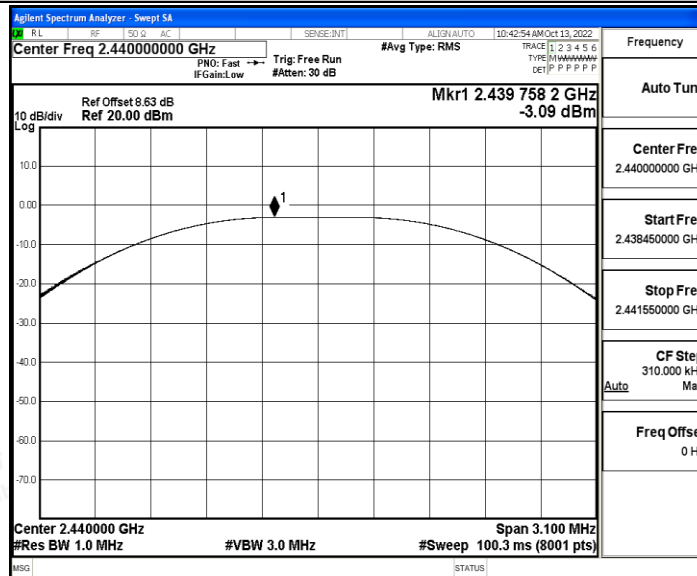


Test Graphs

BLE_Ant_2402

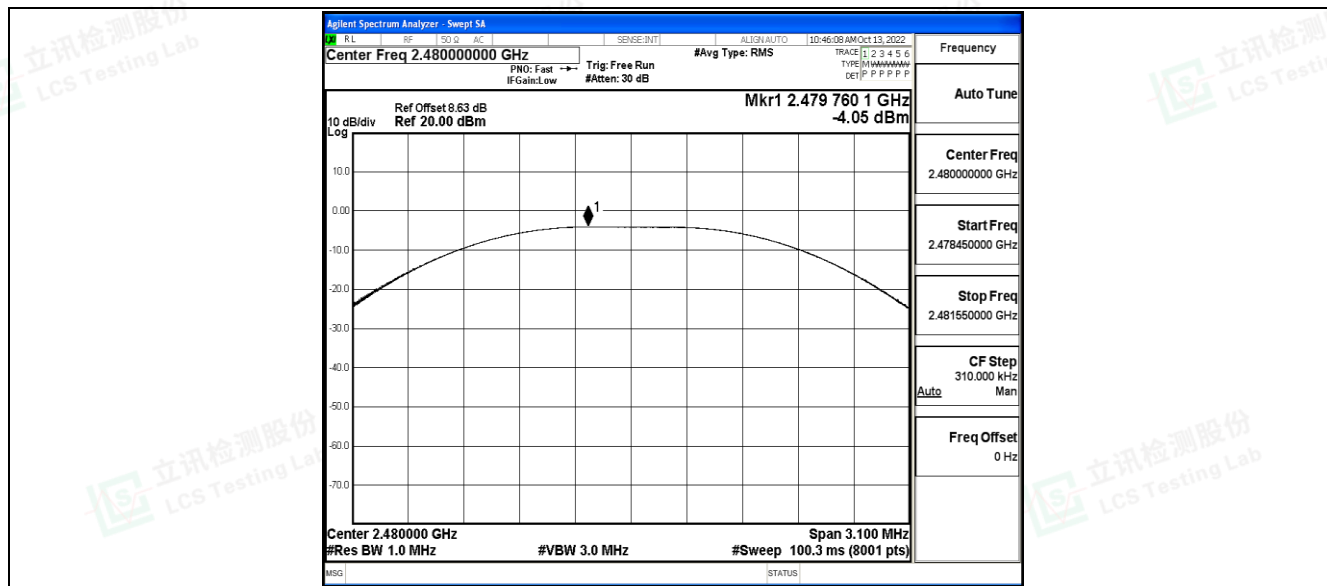


BLE_Ant_2440



BLE_Ant_2480







B.3 Maximum power spectral density

Test Result

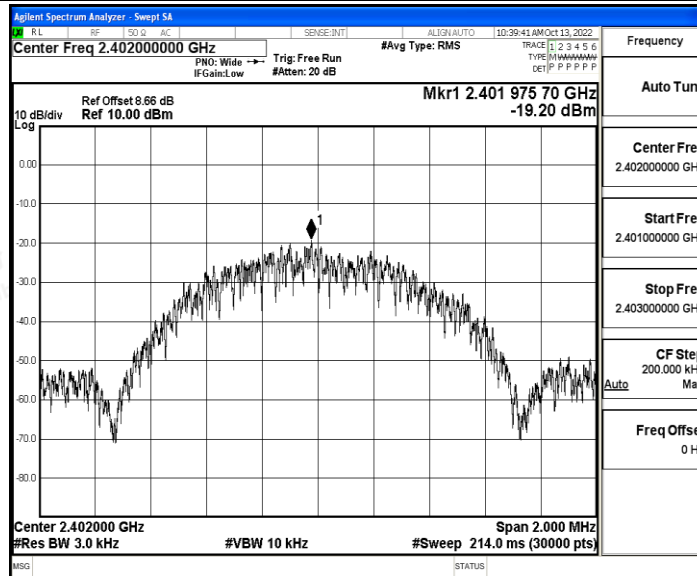
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-19.2	≤8.00	PASS
		2440	-17.95	≤8.00	PASS
		2480	-18.95	≤8.00	PASS



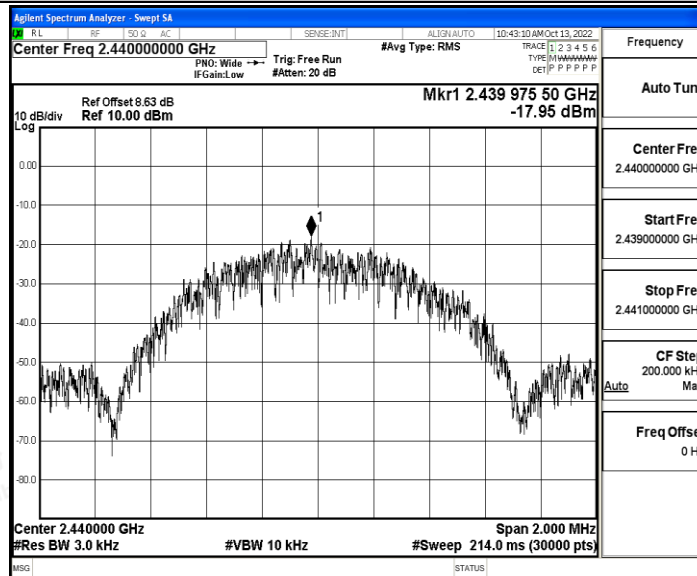


Test Graphs

BLE_Ant_2402

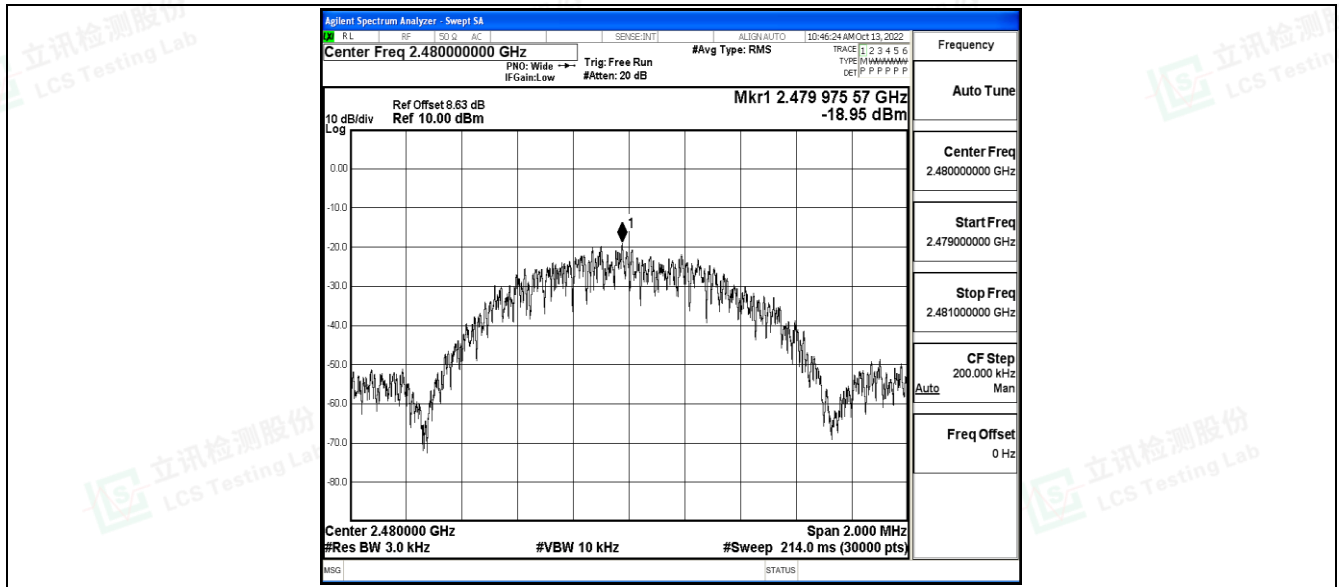


BLE_Ant_2440



BLE_Ant_2480







B.4 Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-4.94	-58.5	≤-24.94	PASS
		High	2480	-5.03	-58.12	≤-25.03	PASS

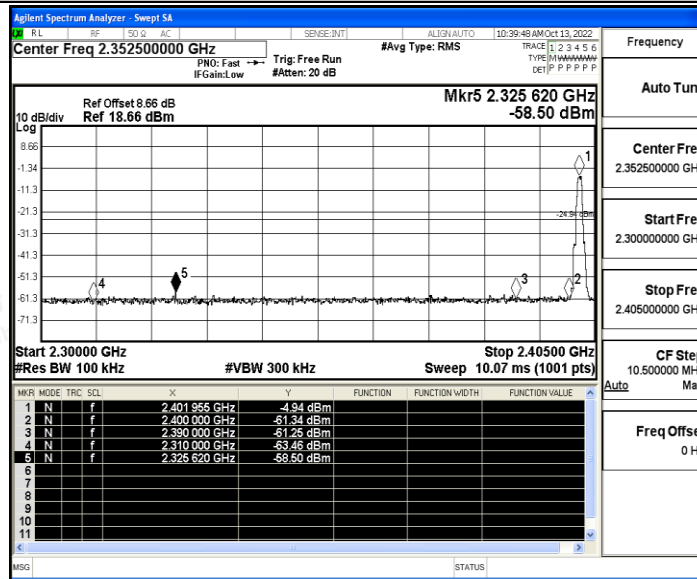


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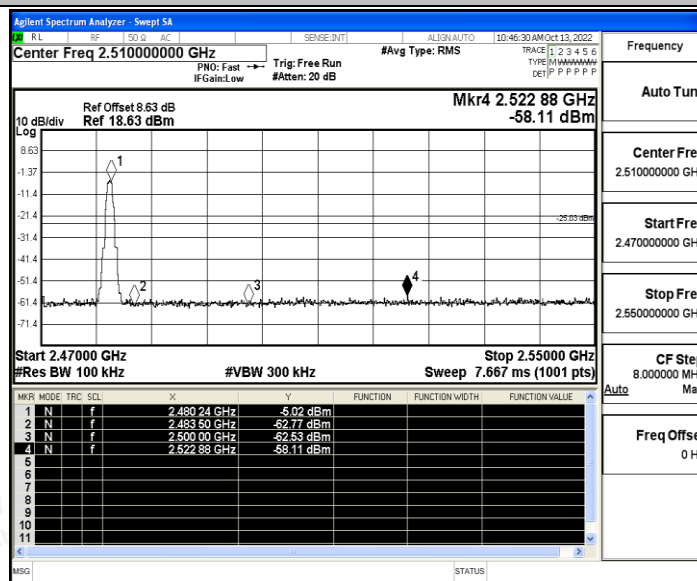


Test Graphs

BLE_Ant_Low_2402



BLE_Ant_High_2480



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B.5 Conducted Spurious Emission

Test Result

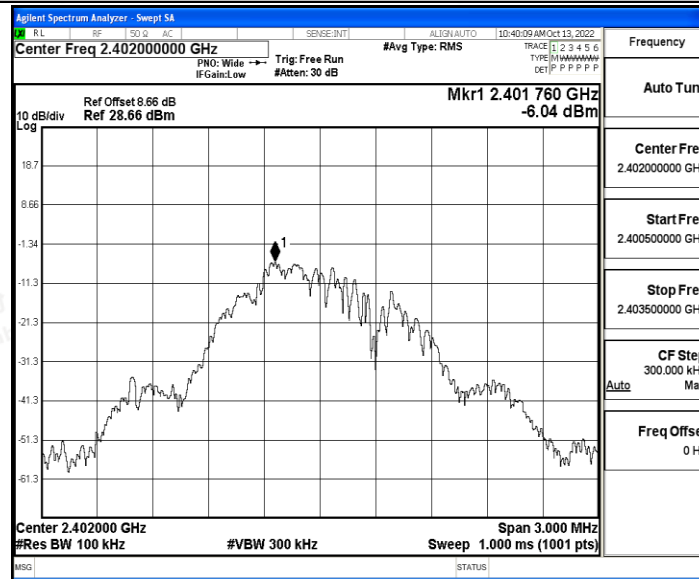
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	-6.04	-6.04	---	PASS
			30~1000	-6.04	-60.08	≤-26.04	PASS
			1000~26500	-6.04	-45.84	≤-26.04	PASS
		2440	Reference	-4.19	-4.19	---	PASS
			30~1000	-4.19	-59.83	≤-24.19	PASS
			1000~26500	-4.19	-45.99	≤-24.19	PASS
		2480	Reference	-4.74	-4.74	---	PASS
			30~1000	-4.74	-59.66	≤-24.74	PASS
			1000~26500	-4.74	-45.77	≤-24.74	PASS



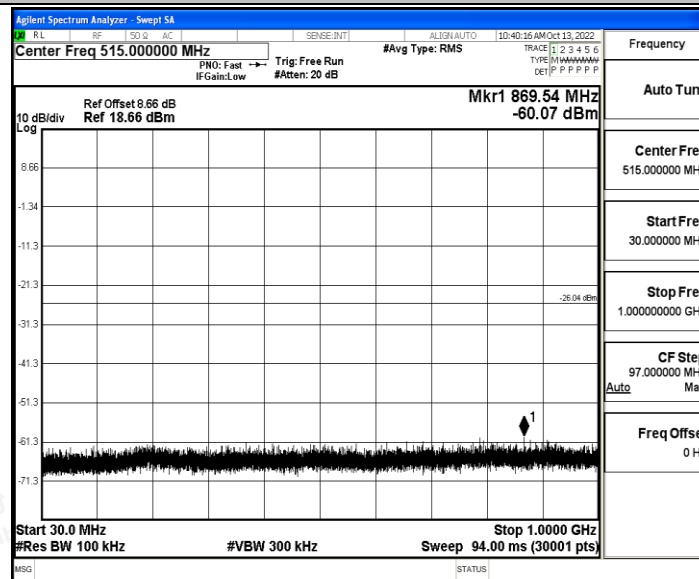


Test Graphs

BLE_Ant_2402_0~Reference

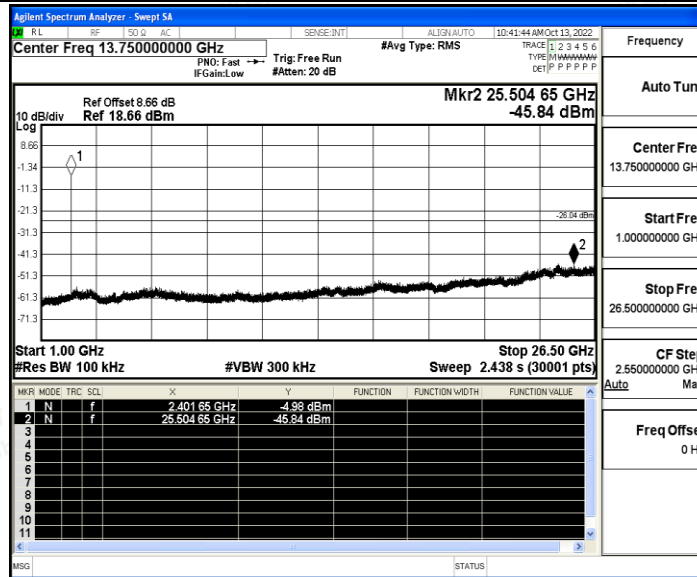


BLE_Ant_2402_30~1000

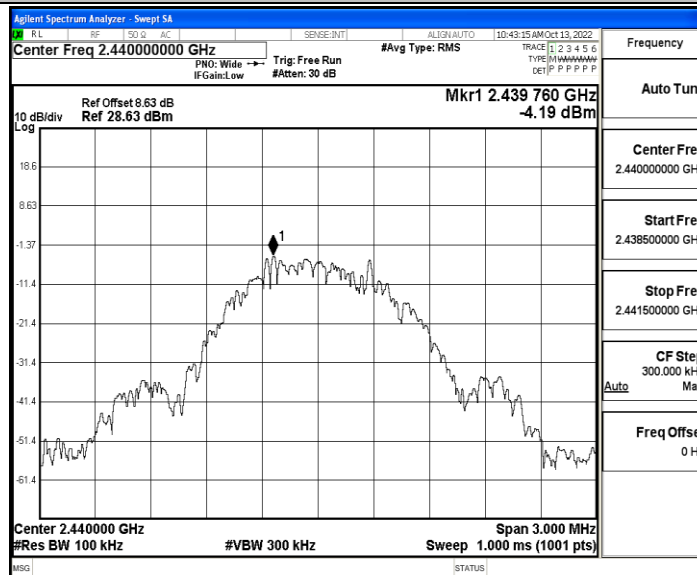


BLE_Ant_2402_1000~26500



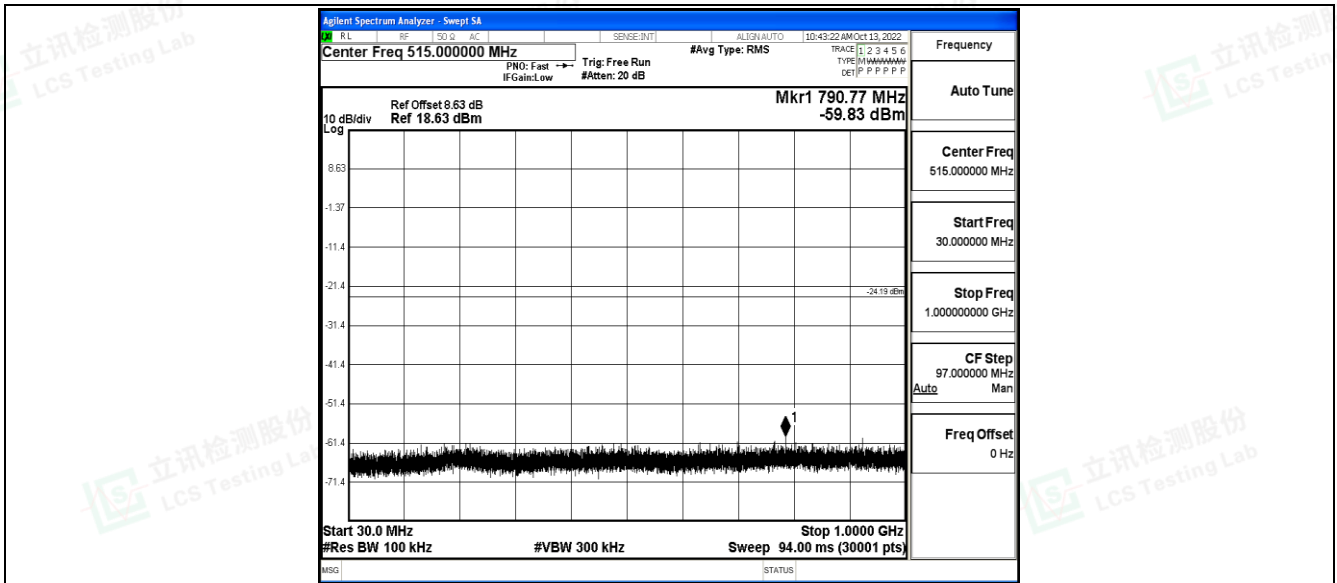


BLE_Ant_2440_0~Reference

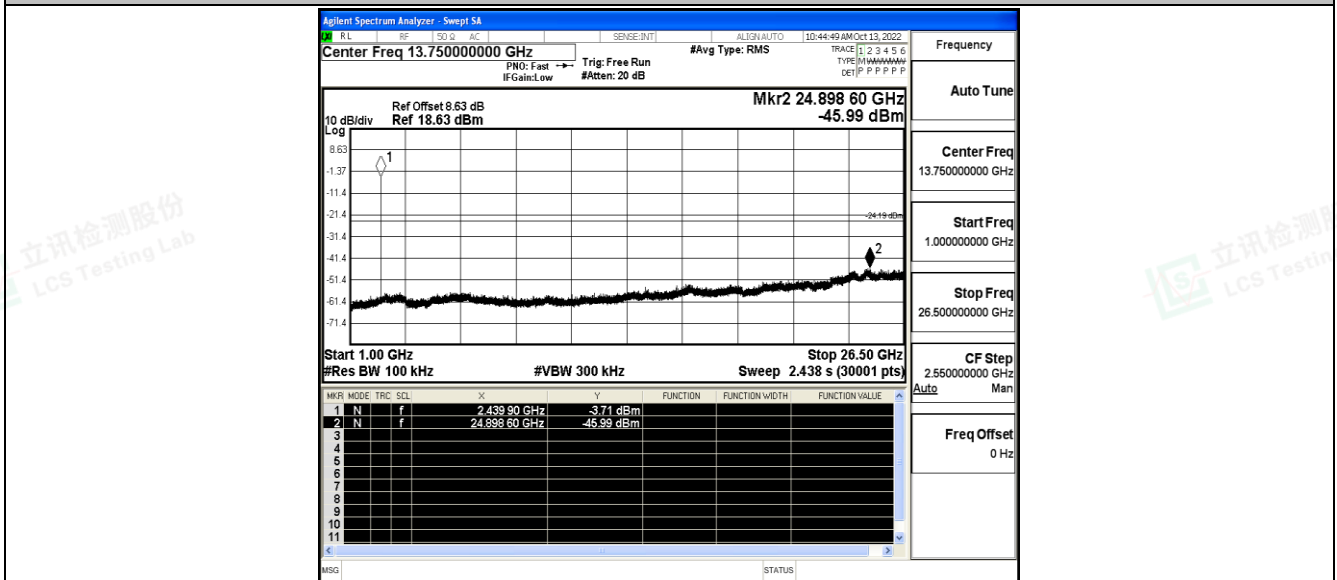


BLE_Ant_2440_30~1000



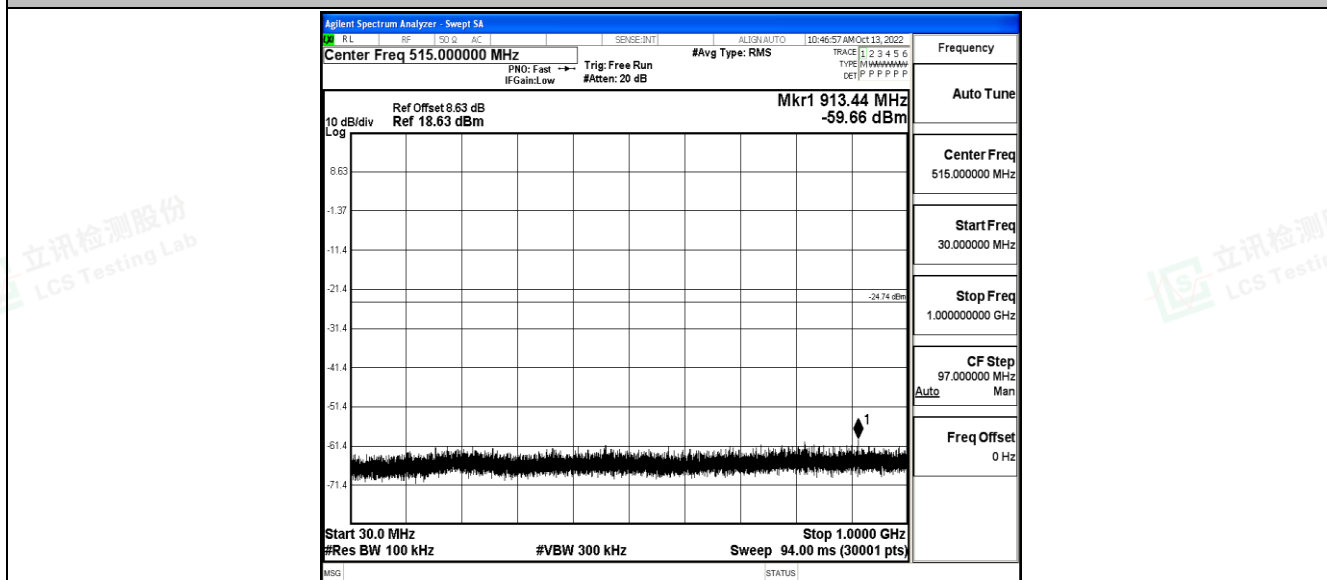
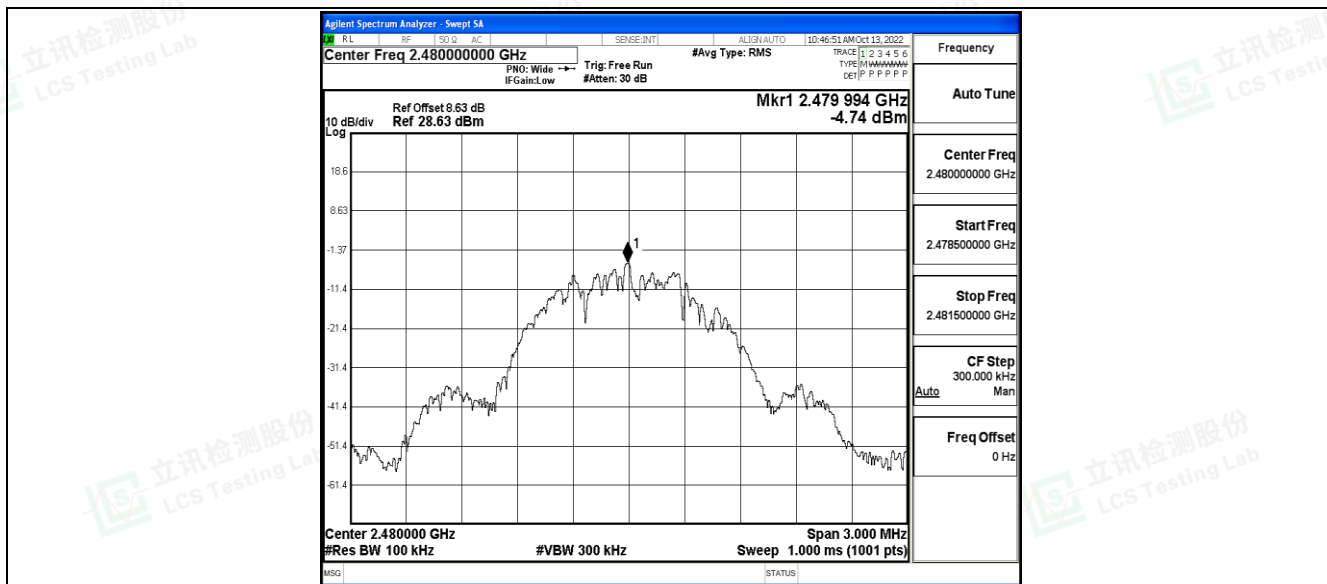


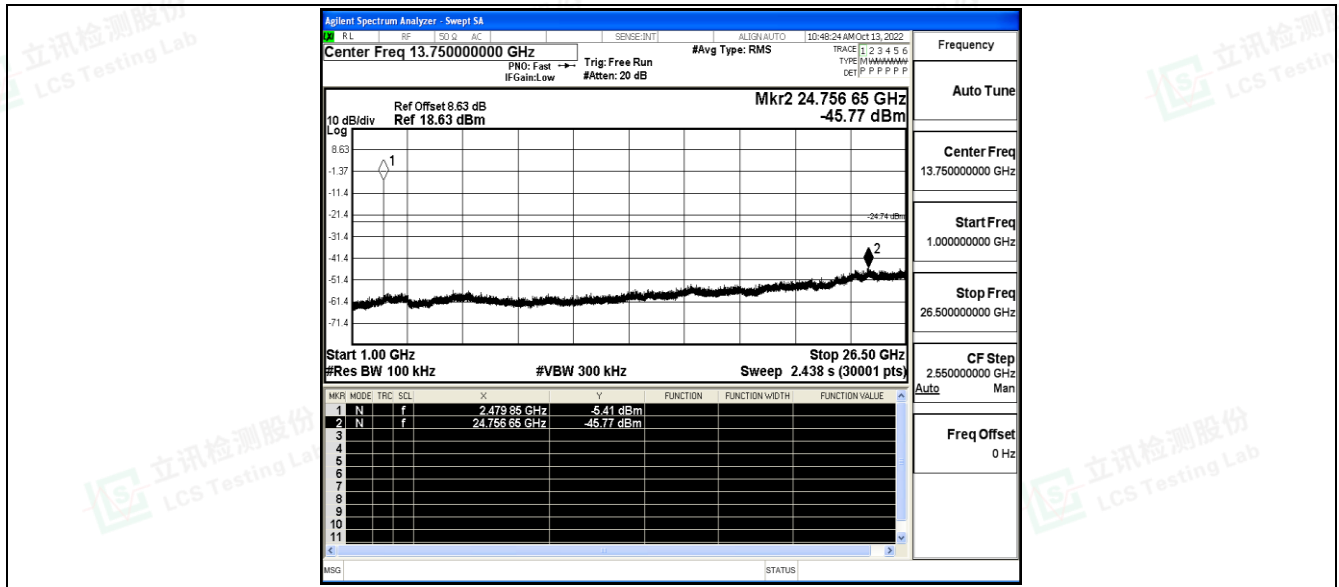
BLE_Ant_2440_1000~26500



BLE_Ant_2480_0~Reference









B.6 Duty Cycle

Test Result

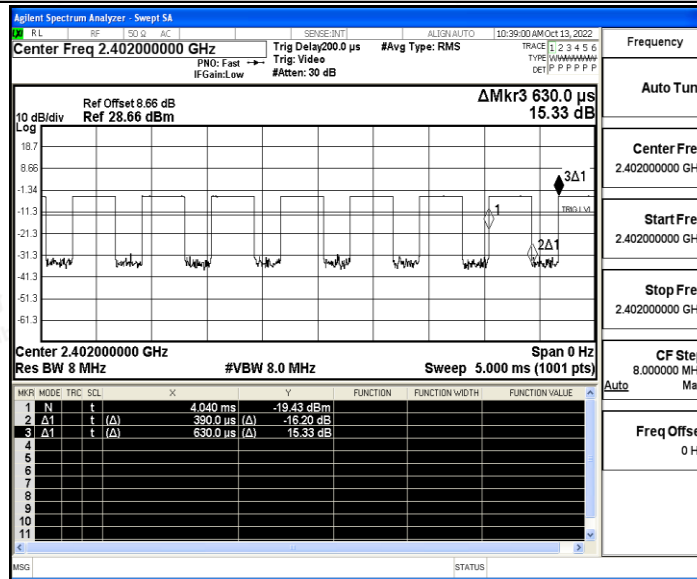
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.38	0.62	0.6129	61.29	2.13	2.63	---	---



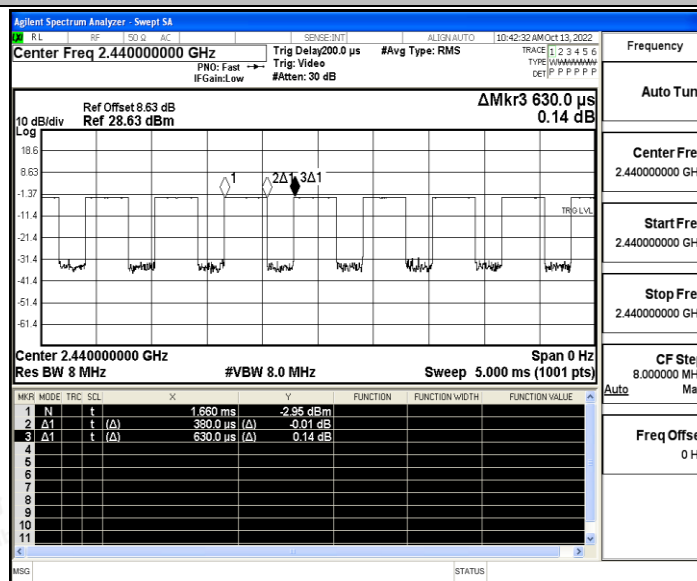


Test Graphs

BLE_Ant_2402

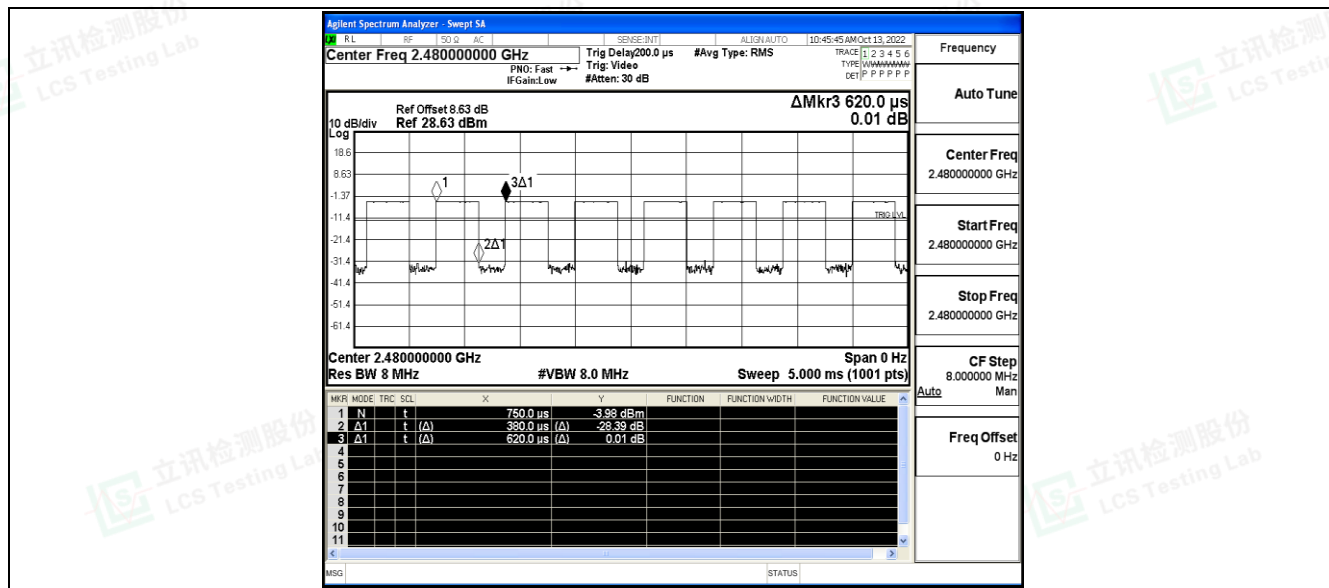


BLE_Ant_2440



BLE_Ant_2480





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B.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE	Ant	Low	2402	AV	2310.000	-57.24	≤-41.20	37.96	≤54	PASS
				AV	2380.850	-56.54	≤-41.20	38.66	≤54	PASS
				AV	2390.000	-56.75	≤-41.20	38.45	≤54	PASS
				Peak	2310.000	-51.86	≤-21.20	43.34	≤74	PASS
				Peak	2346.830	-47.45	≤-21.20	47.75	≤74	PASS
				Peak	2390.000	-51.29	≤-21.20	43.91	≤74	PASS
		High	2480	AV	2483.500	-55.55	≤-41.20	39.65	≤54	PASS
				AV	2483.520	-55.55	≤-41.20	39.65	≤54	PASS
				AV	2500.000	-56.09	≤-41.20	39.11	≤54	PASS
				Peak	2483.500	-49.21	≤-21.20	45.99	≤74	PASS
				Peak	2485.440	-47.82	≤-21.20	47.38	≤74	PASS
				Peak	2500.000	-50.44	≤-21.20	44.76	≤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.

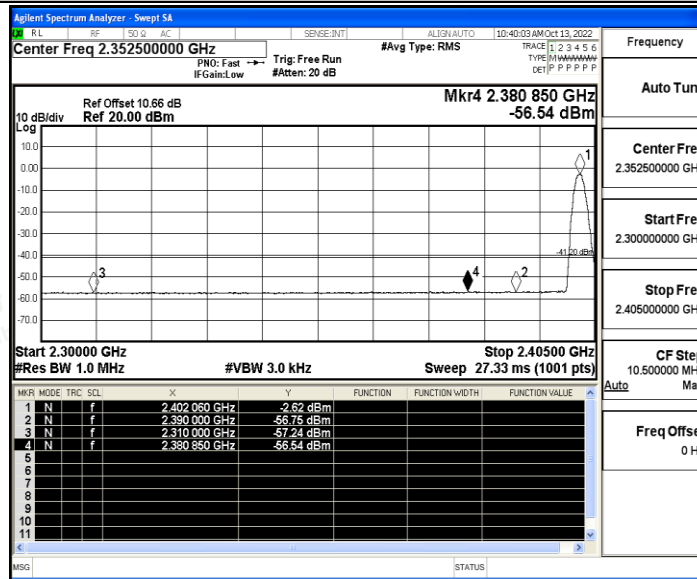


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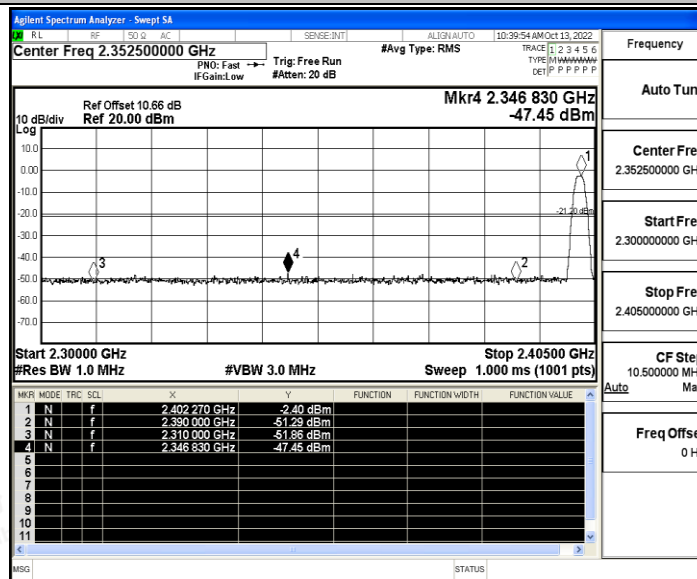


Test Graphs

BLE_Ant_Low_2402_AV

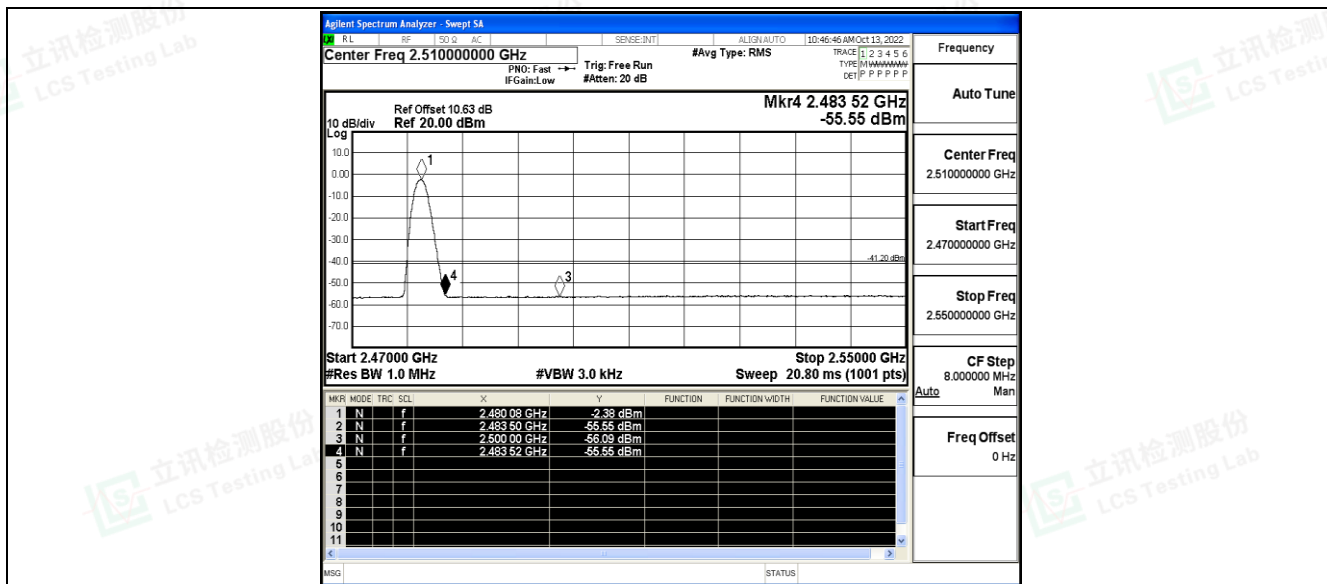


BLE_Ant_Low_2402_Peak



BLE_Ant_High_2480_AV





BLE_Ant_High_2480_Peak

