



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Tablet

Test Model: 8LB1

Environmental Conditions

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





B.1 DTS Bandwidth

Test Result

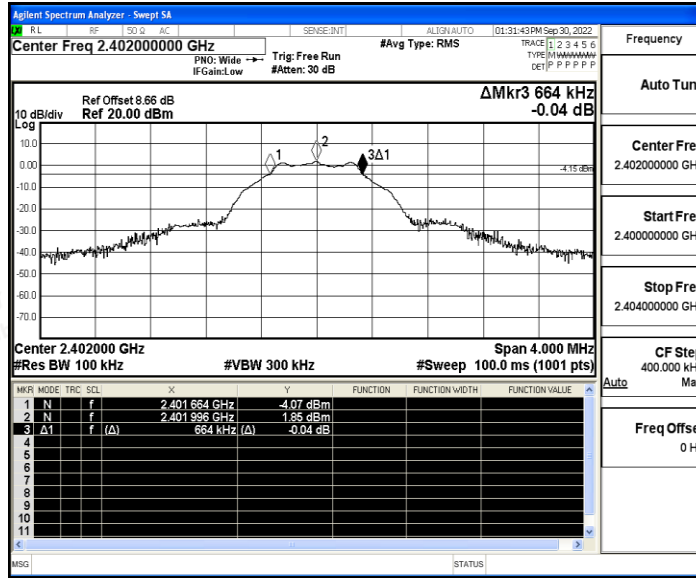
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.664	2401.664	2402.328	0.5	PASS
		2440	0.664	2439.664	2440.328	0.5	PASS
		2480	0.664	2479.660	2480.324	0.5	PASS



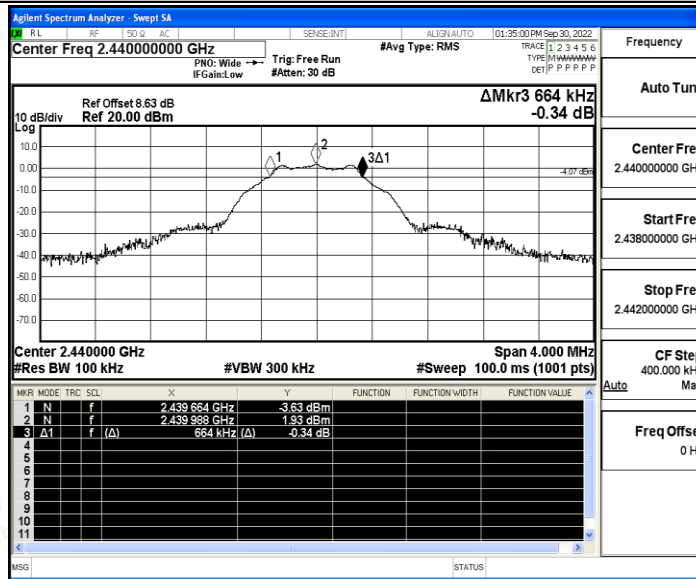


Test Graphs

BLE_Ant_2402

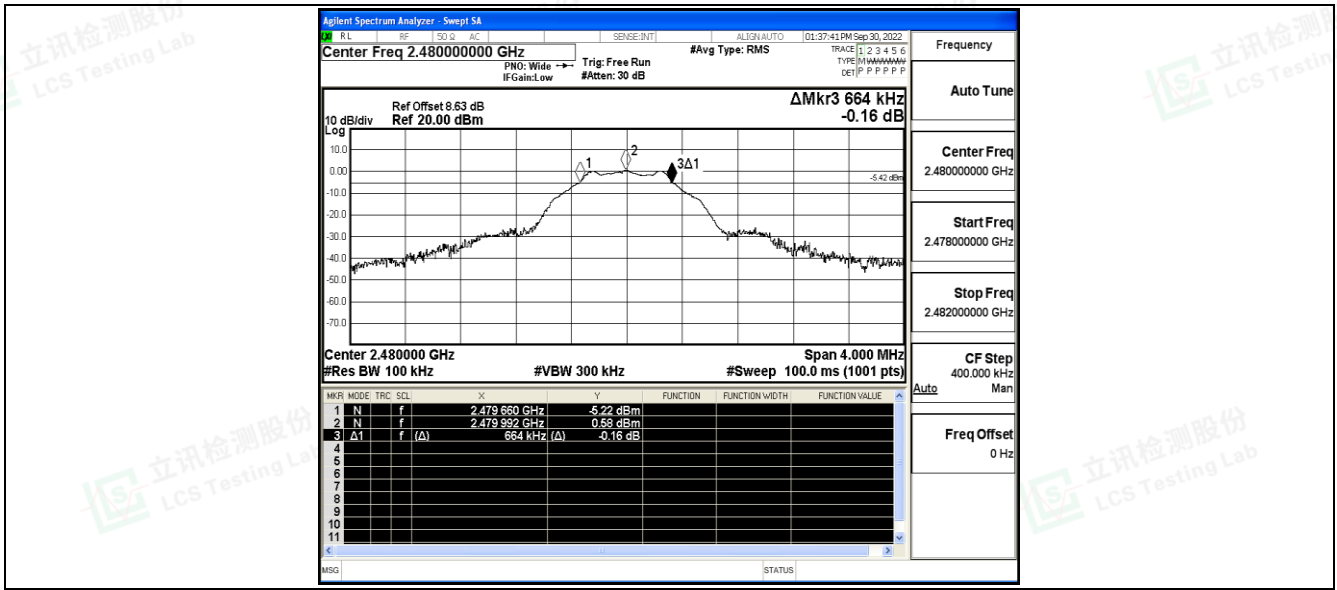


BLE_Ant_2440



BLE_Ant_2480







B.2 Maximum conducted output power

Test Result

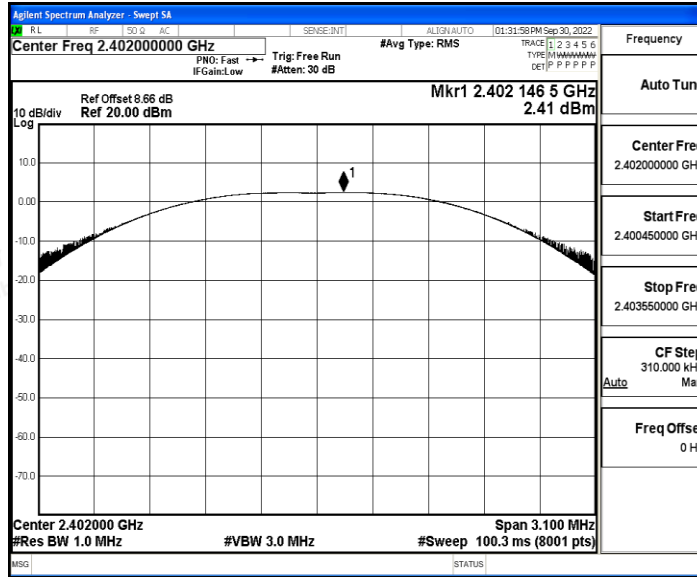
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	2.41	≤30	PASS
		2440	2.49	≤30	PASS
		2480	1.41	≤30	PASS



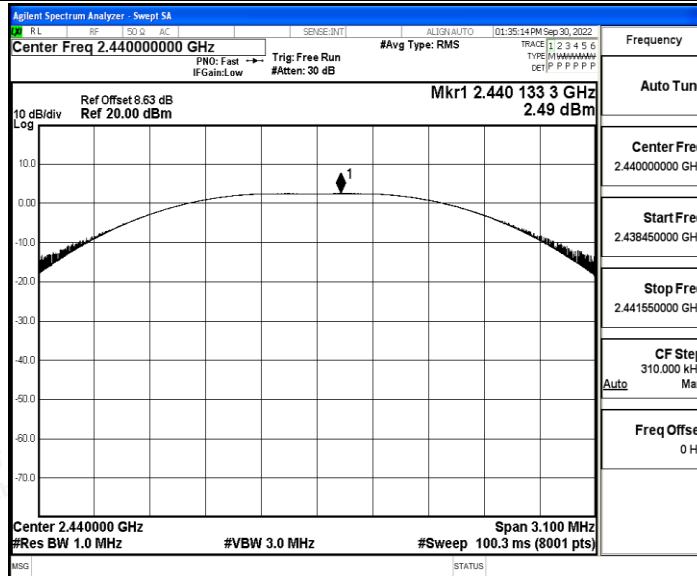


Test Graphs

BLE_Ant_2402

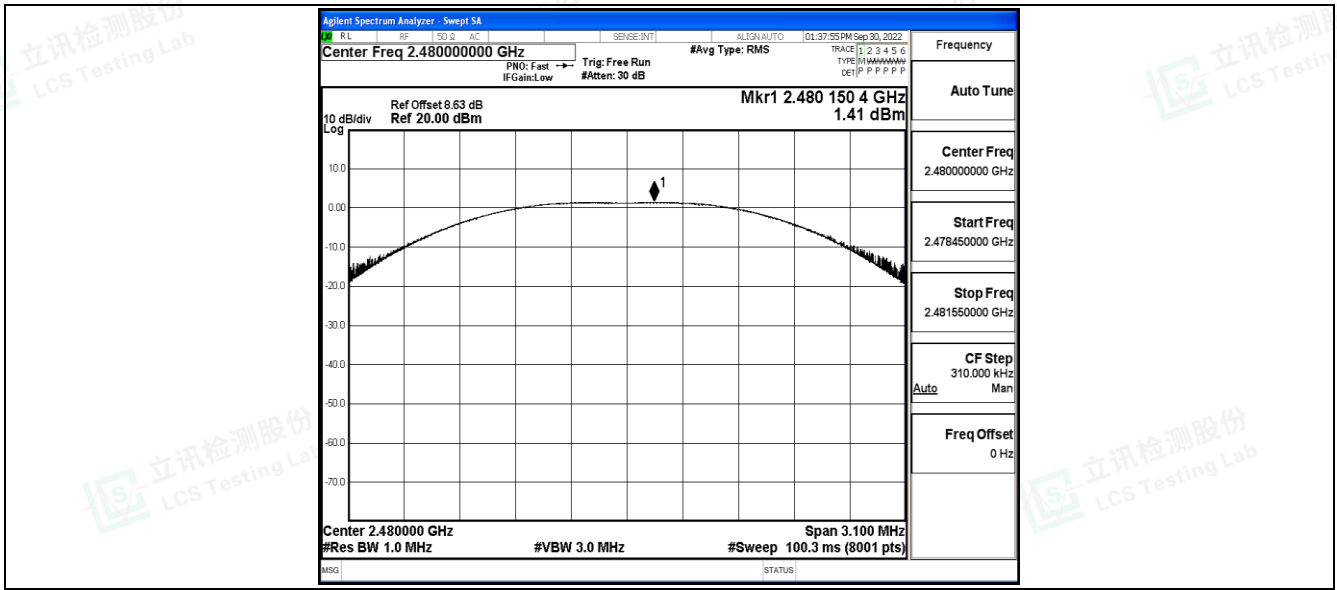


BLE_Ant_2440



BLE_Ant_2480







B.3 Maximum power spectral density

Test Result

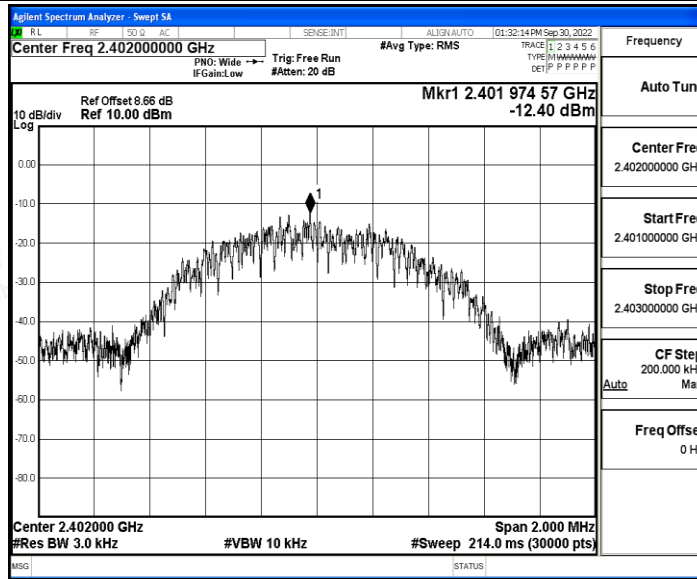
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-12.4	≤8.00	PASS
		2440	-12.34	≤8.00	PASS
		2480	-13.62	≤8.00	PASS



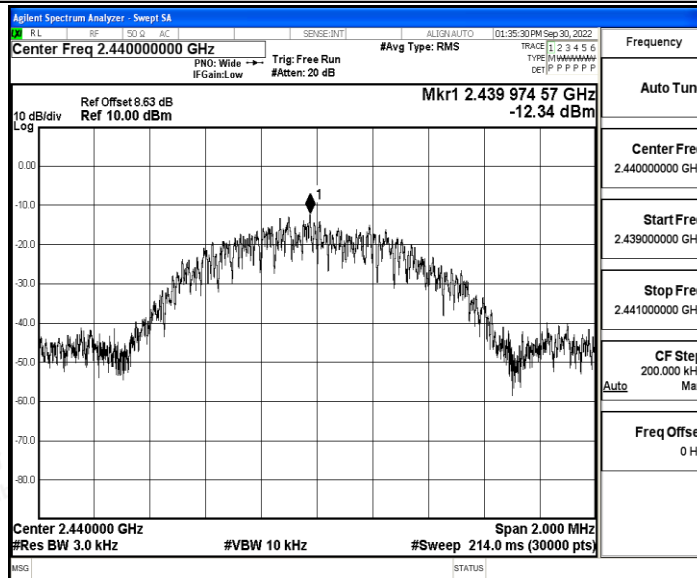


Test Graphs

BLE_Ant_2402

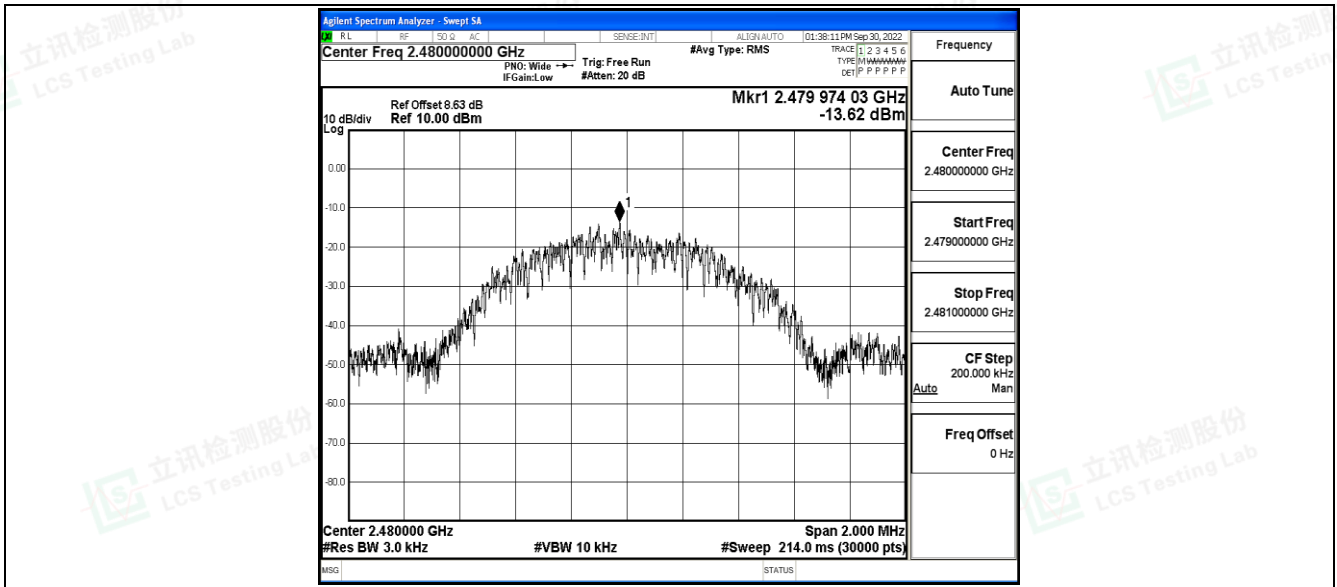


BLE_Ant_2440



BLE_Ant_2480







B.4 Band edge measurements

Test Result

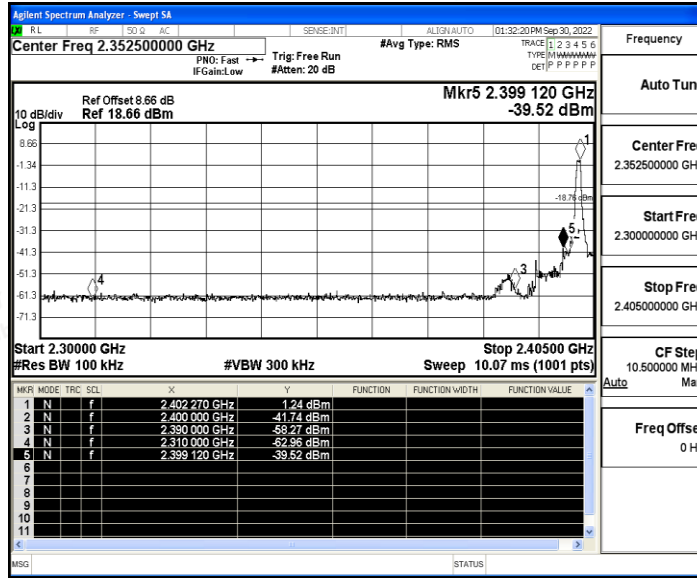
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	1.24	-39.52	≤-18.76	PASS
		High	2480	0.34	-45.01	≤-19.66	PASS



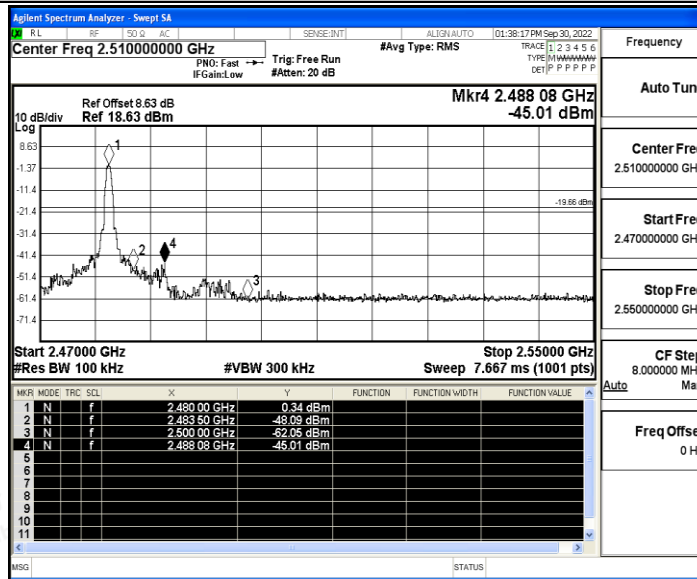


Test Graphs

BLE_Ant_Low_2402



BLE_Ant_High_2480





B.5 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-33.53	≤-19.87	PASS
			1000~26500	0.13	-43.35	≤-19.87	PASS
		2440	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-51.09	≤-18.61	PASS
			1000~26500	1.39	-41.36	≤-18.61	PASS
		2480	Reference	-0.40	-0.40	---	PASS
			30~1000	-0.40	-40.16	≤-20.4	PASS
			1000~26500	-0.40	-45.89	≤-20.4	PASS



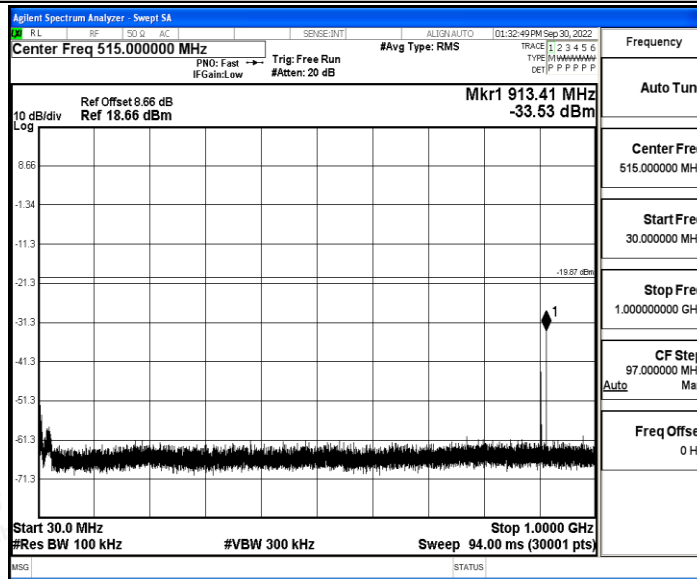


Test Graphs

BLE_Ant_2402_0~Reference

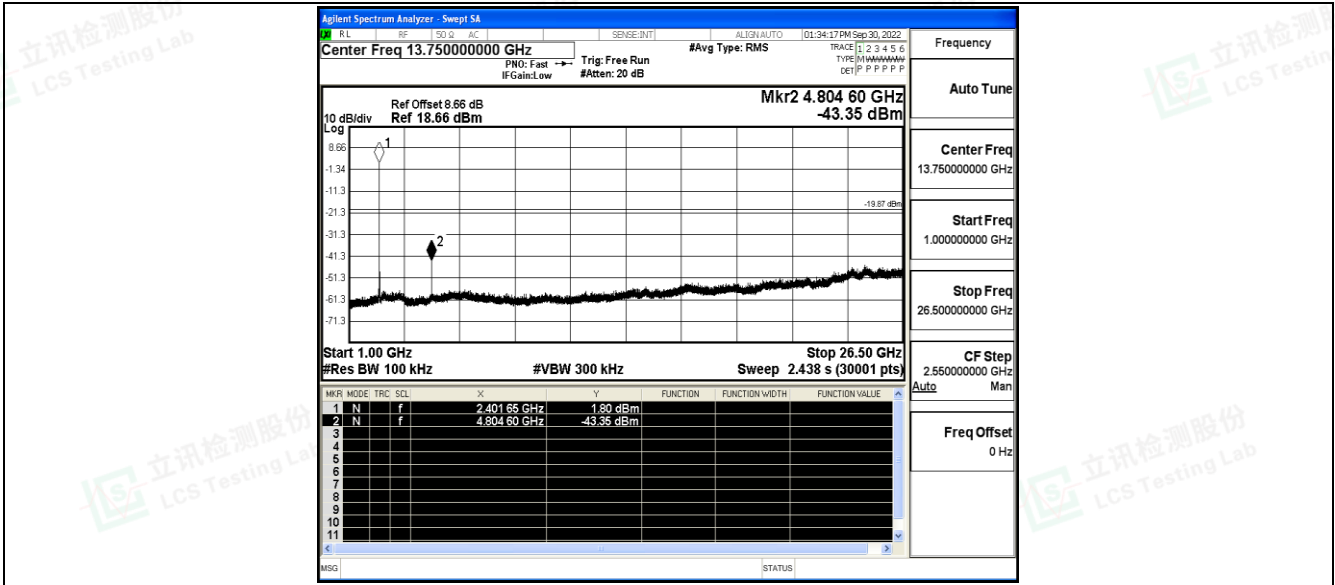


BLE_Ant_2402_30~1000

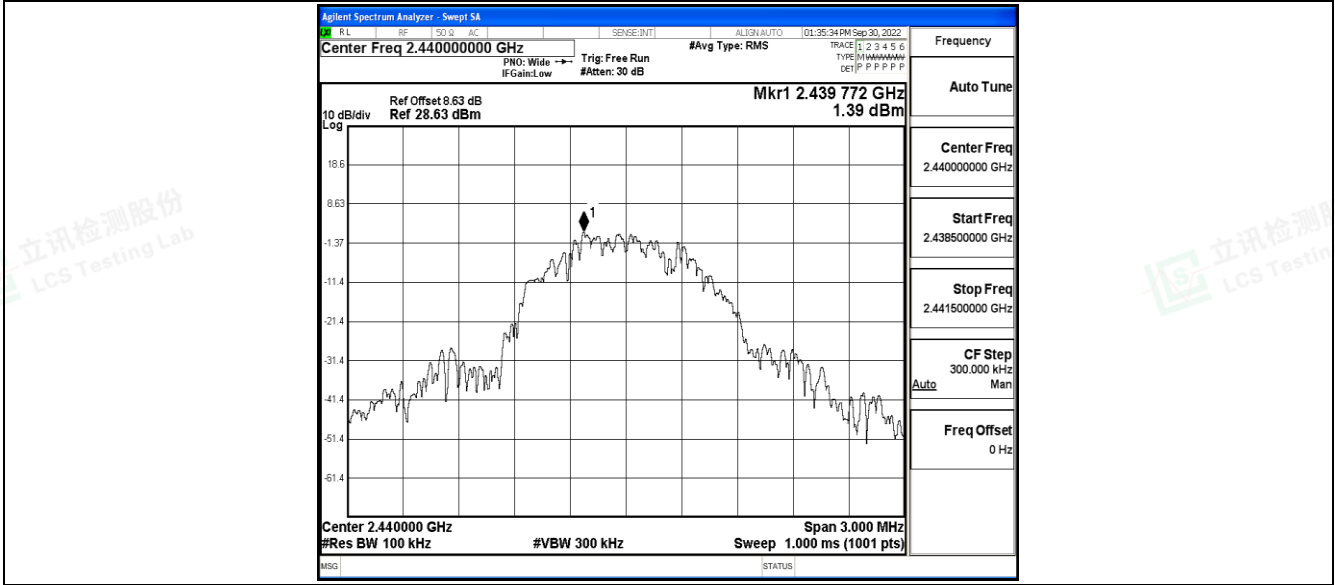


BLE_Ant_2402_1000~26500



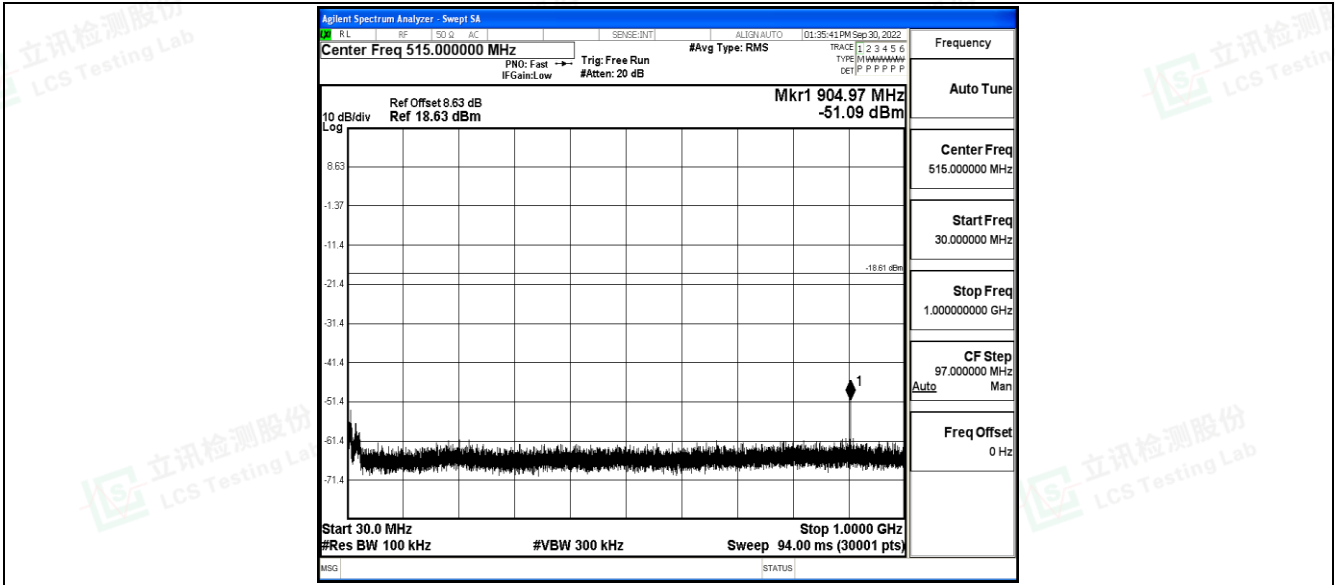


BLE_Ant_2440_0~Reference

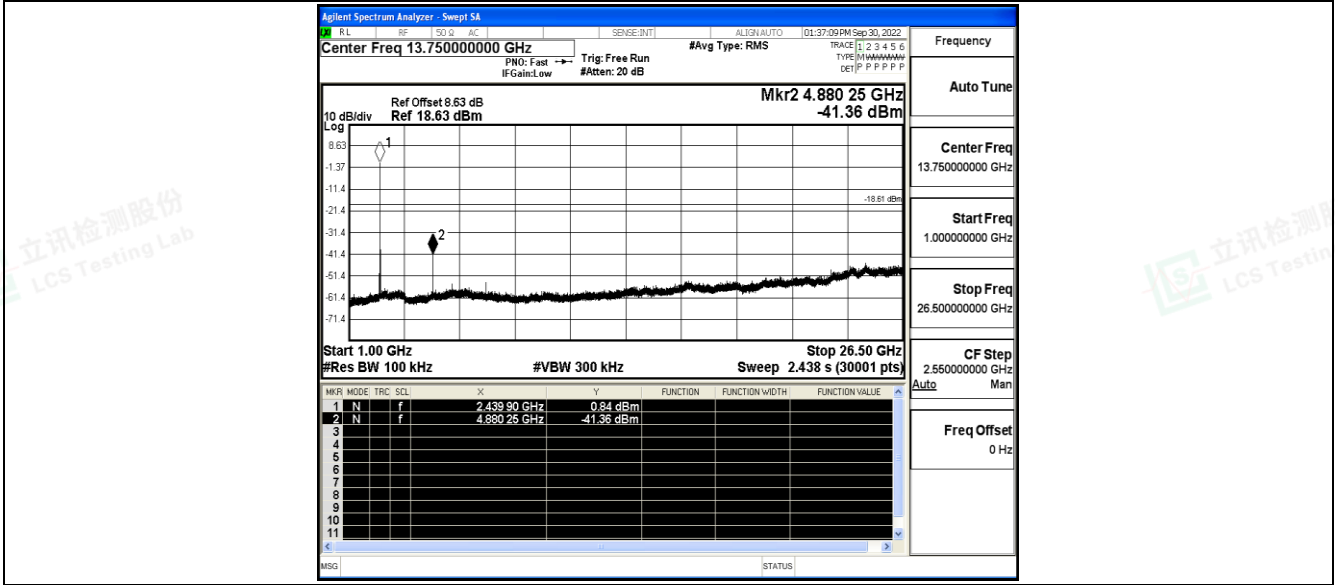


BLE_Ant_2440_30~1000





BLE_Ant_2440_1000~26500

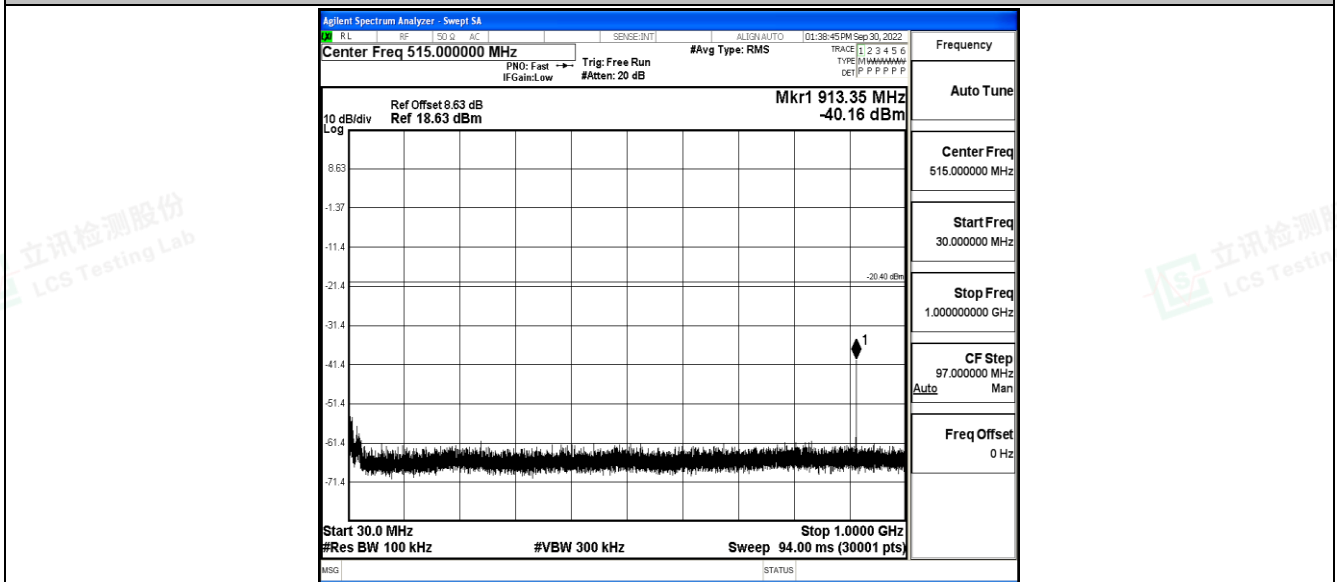


BLE_Ant_2480_0~Reference



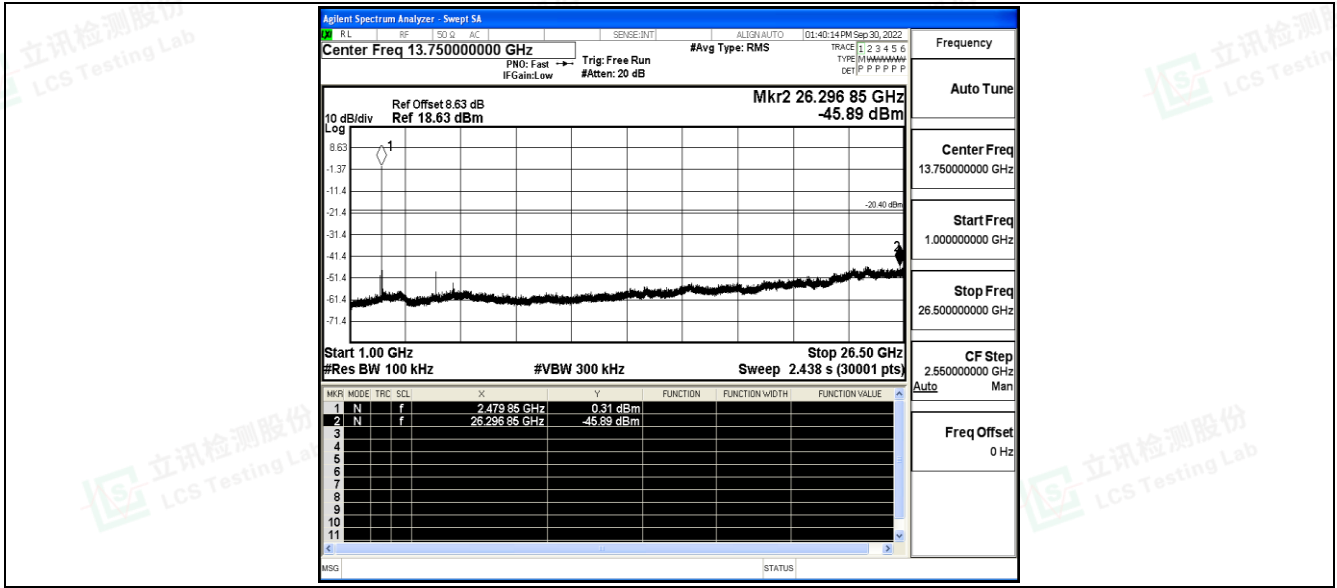


BLE_Ant_2480_30~1000



BLE_Ant_2480_1000~26500







B.6 Duty Cycle

Test Result

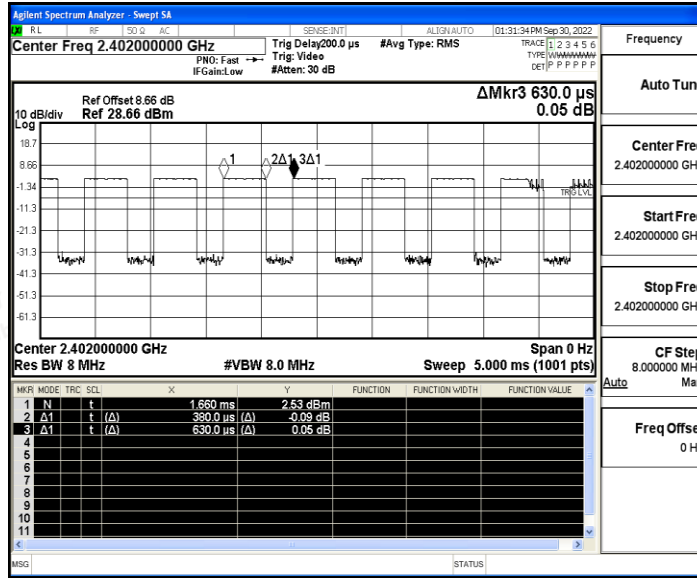
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2480	0.38	0.63	0.6032	60.32	2.20	2.63	---	---



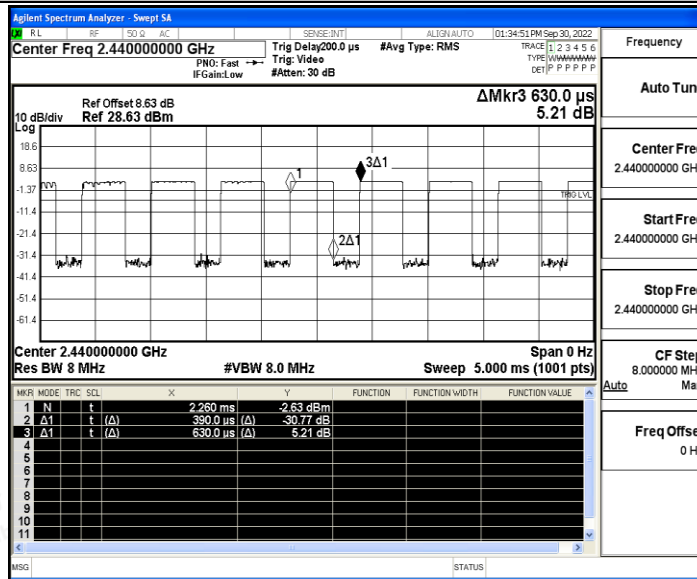


Test Graphs

BLE_Ant_2402

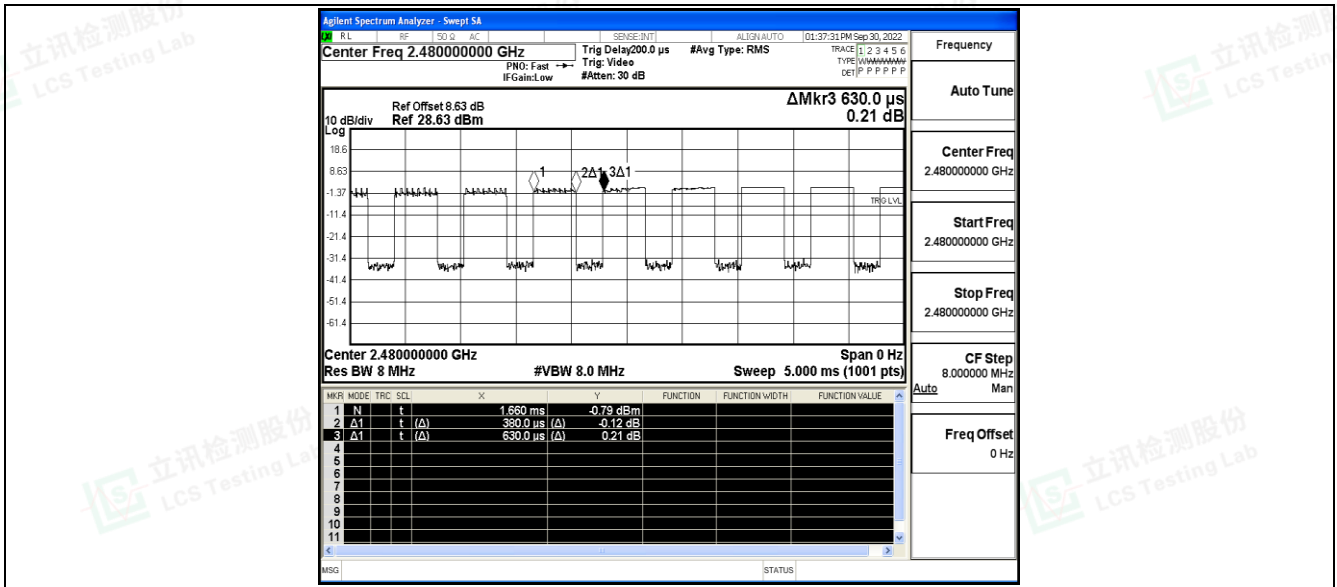


BLE_Ant_2440



BLE_Ant_2480







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	2388.410	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2390.000	-52.25	≤-41.20	42.95	≤54	PASS
				Peak	2310.000	-50.87	≤-21.20	44.33	≤74	PASS
				Peak	2388.200	-39.05	≤-21.20	56.15	≤74	PASS
				Peak	2390.000	-46.81	≤-21.20	48.39	≤74	PASS
		High	2480	AV	2483.500	-42.04	≤-41.20	53.16	≤54	PASS
				AV	2483.520	-42.04	≤-41.20	53.16	≤54	PASS
				AV	2500.000	-55.58	≤-41.20	39.62	≤54	PASS
				Peak	2483.500	-30.47	≤-21.20	64.73	≤74	PASS
				Peak	2484.400	-29.34	≤-21.20	65.86	≤74	PASS
				Peak	2500.000	-47.29	≤-21.20	47.91	≤74	PASS

Note:

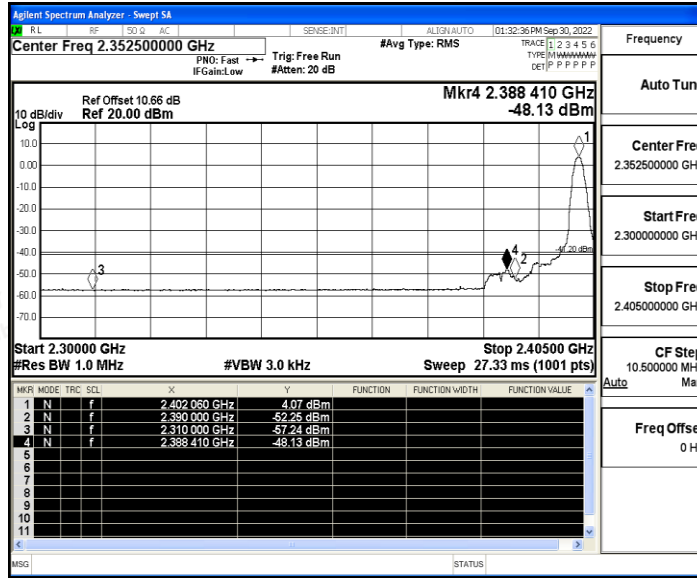
- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



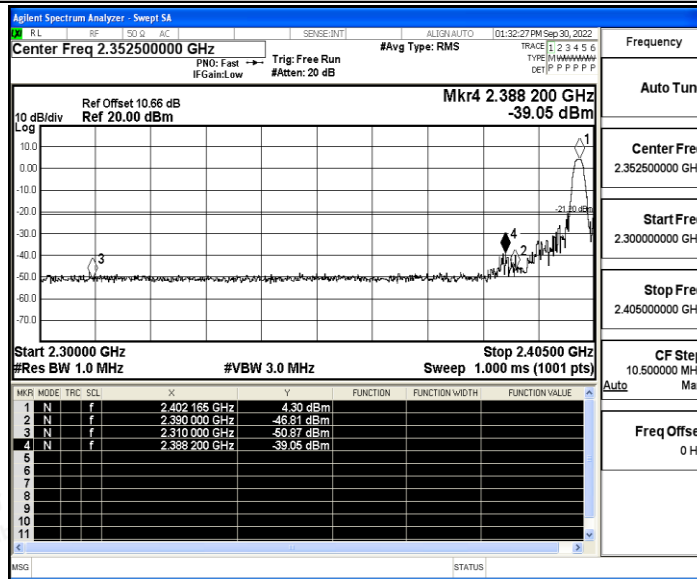


Test Graphs

BLE_Ant_Low_2402_AV

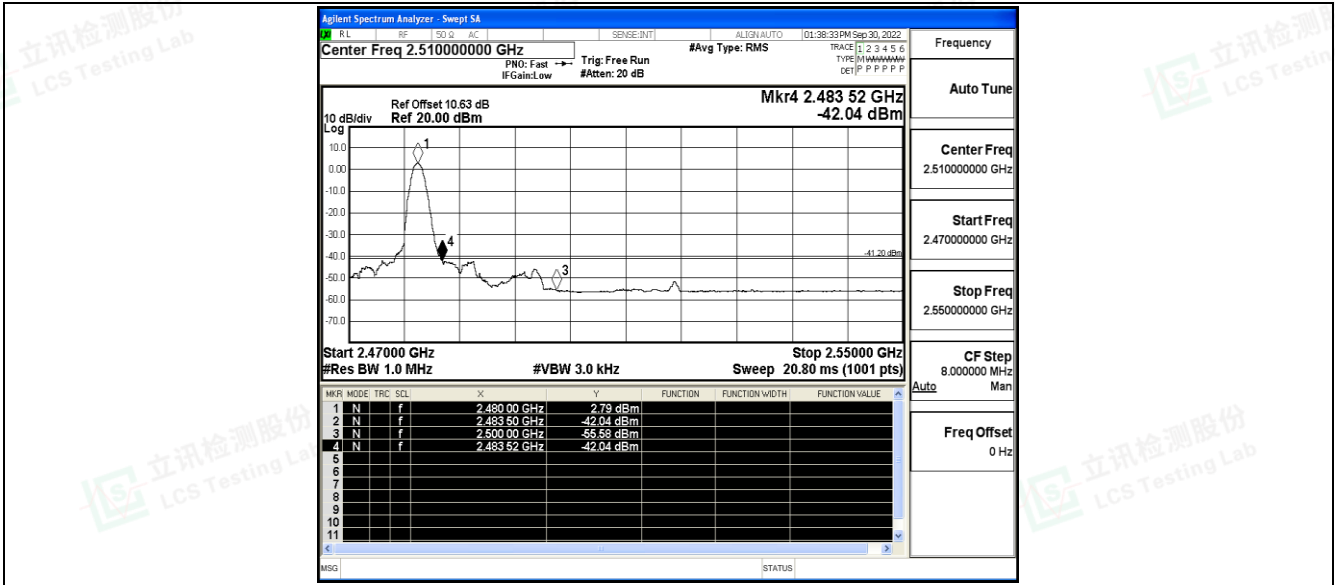


BLE_Ant_Low_2402_Peak



BLE_Ant_High_2480_AV





BLE_Ant_High_2480_Peak

