



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Smart TV Box

Test Model: T95MAX

Environmental Conditions

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





B.1 DTS Bandwidth

Test Result

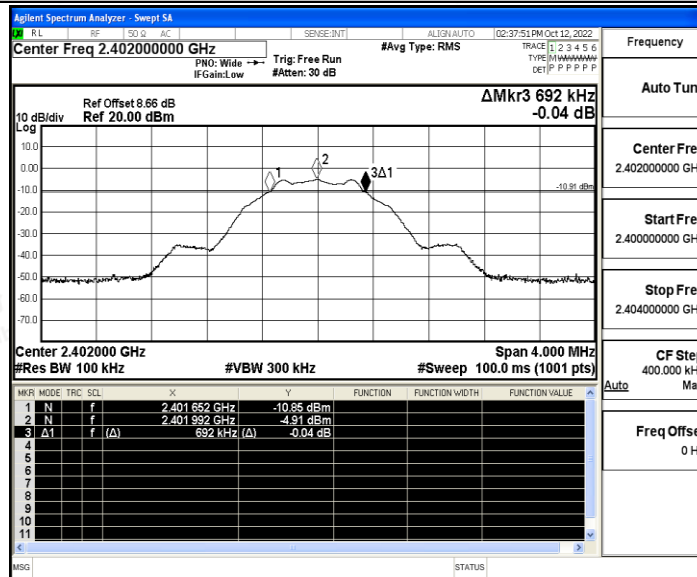
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.692	2401.652	2402.344	0.5	PASS
		2440	0.696	2439.648	2440.344	0.5	PASS
		2480	0.692	2479.648	2480.340	0.5	PASS



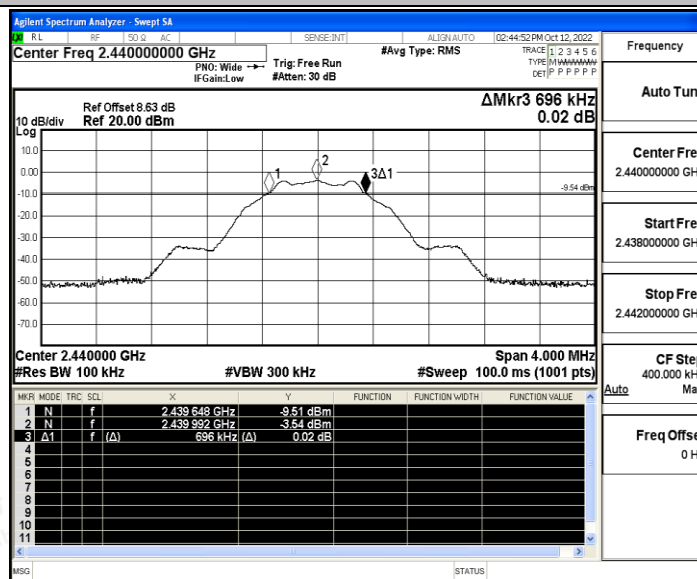


Test Graphs

BLE_Ant_2402

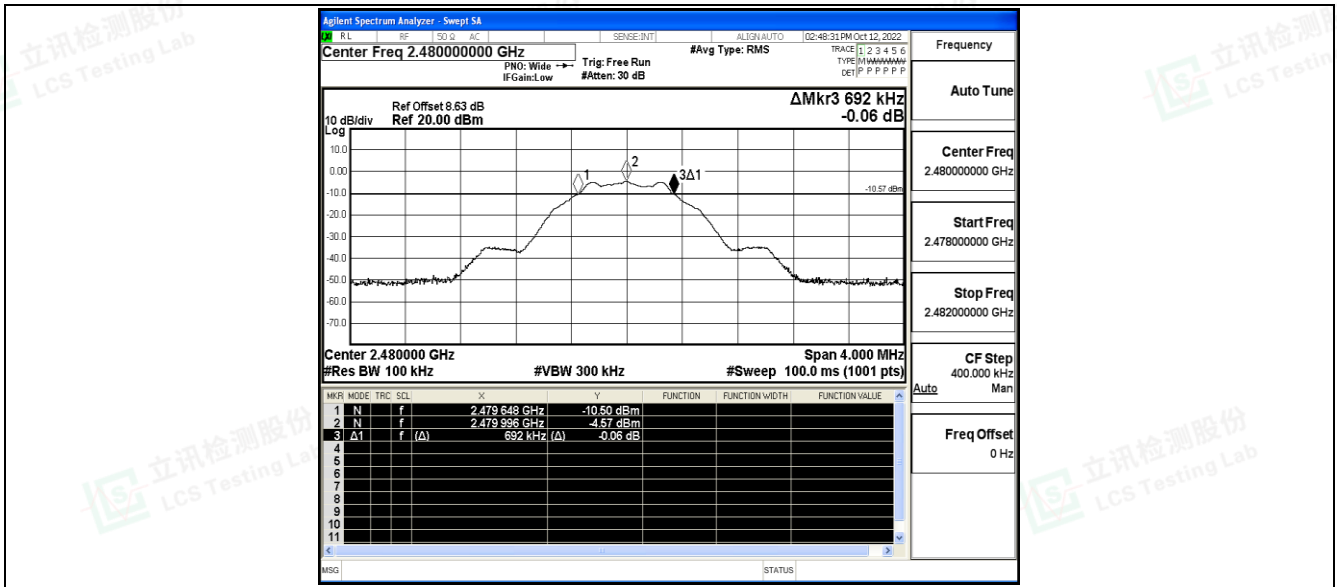


BLE_Ant_2440



BLE_Ant_2480







B.2 Occupied Channel Bandwidth

Test Result

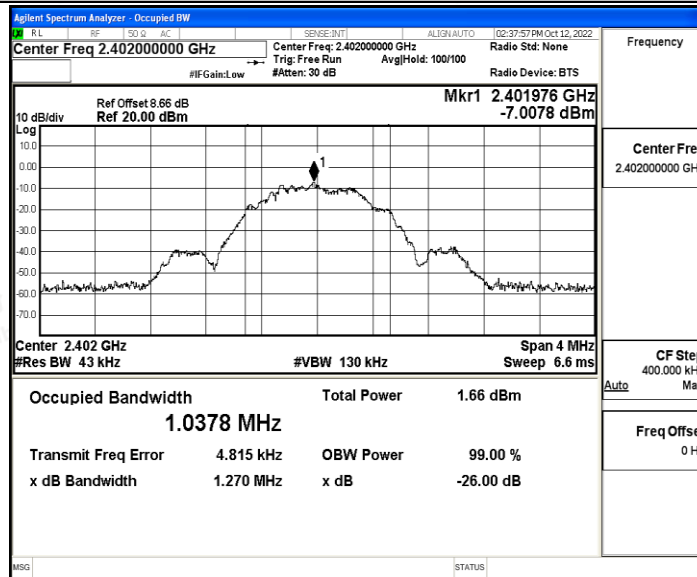
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	1.0378	2401.4859	2402.5237	---	---
		2440	1.0363	2439.4876	2440.5239	---	---
		2480	1.0362	2479.4878	2480.5240	---	---



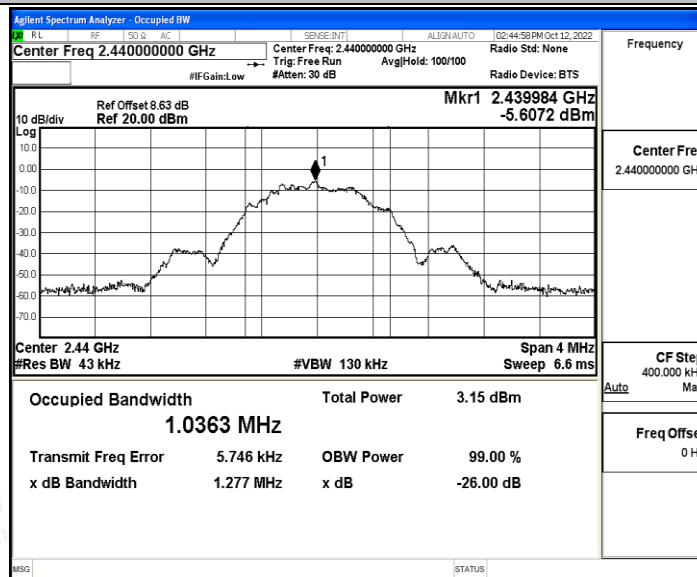


Test Graphs

BLE_Ant_2402

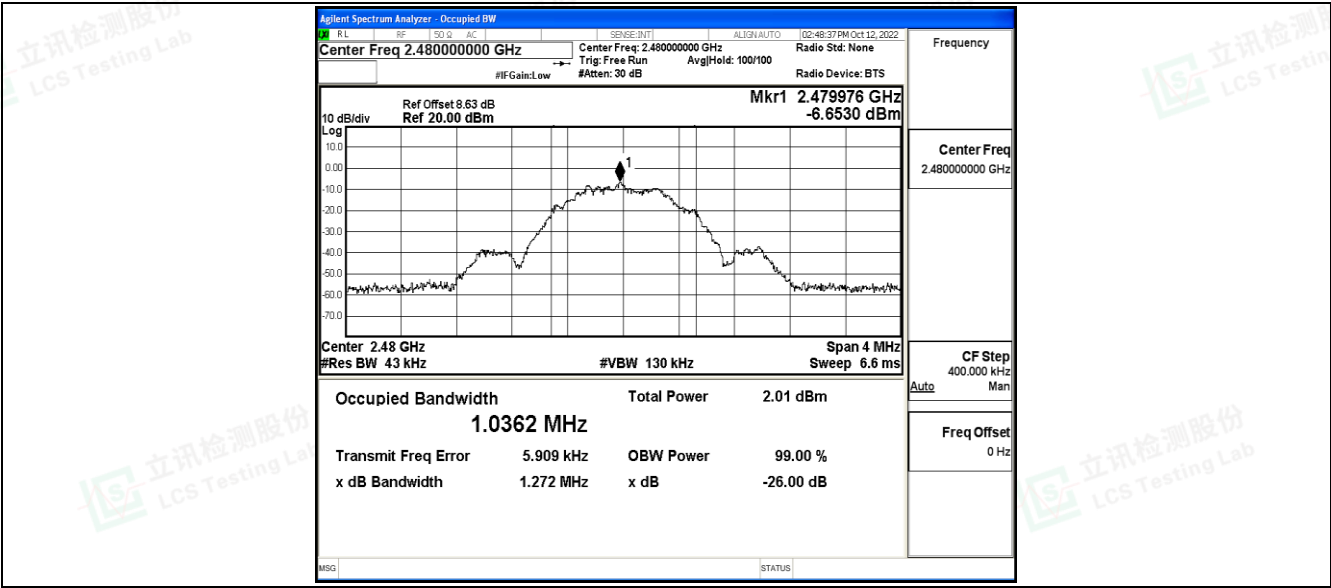


BLE_Ant_2440



BLE_Ant_2480







B.3 Maximum conducted output power

Test Result

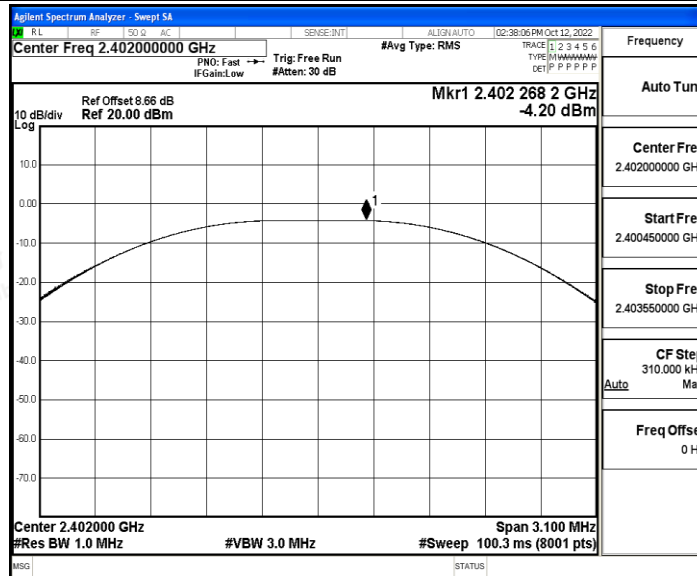
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	-4.20	≤30	PASS
		2440	-2.88	≤30	PASS
		2480	-3.88	≤30	PASS



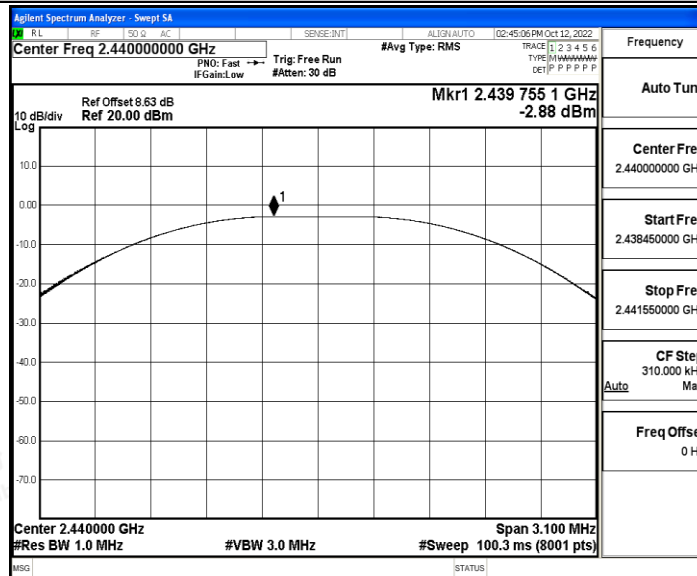


Test Graphs

BLE_Ant_2402

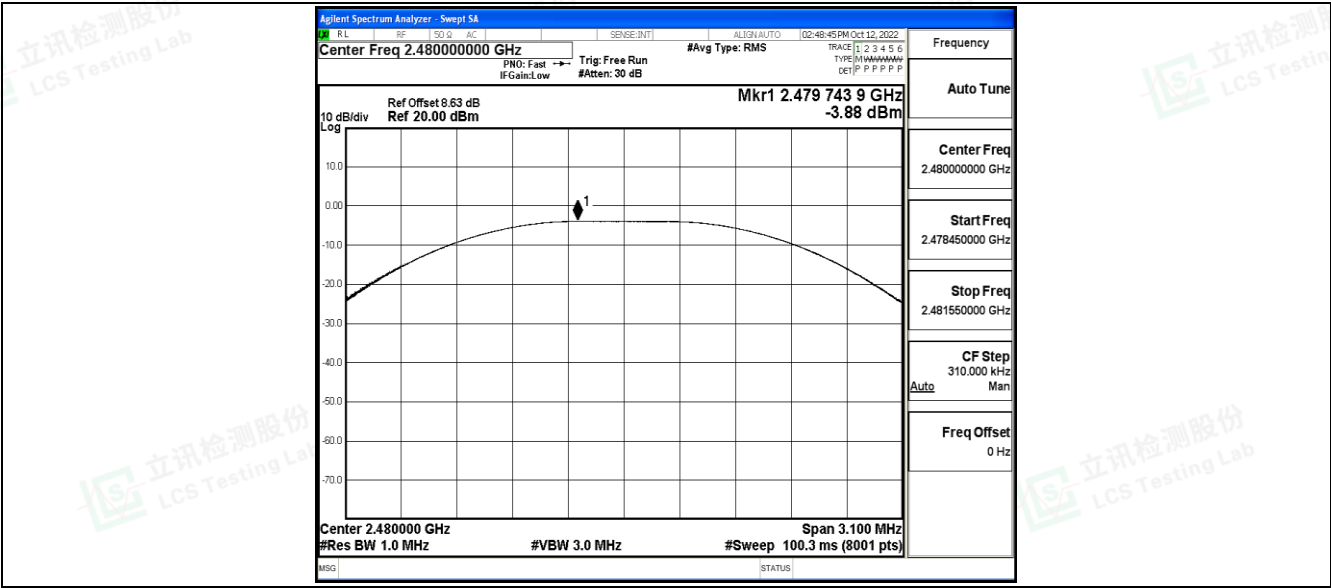


BLE_Ant_2440



BLE_Ant_2480







B.4 Maximum power spectral density

Test Result

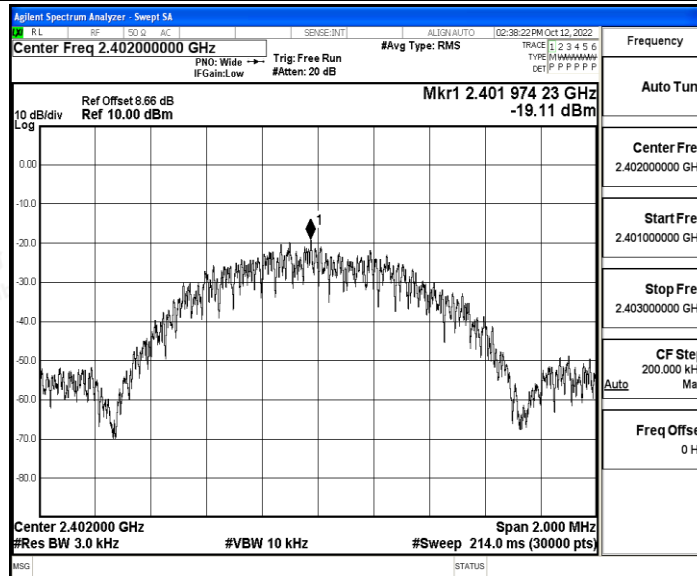
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-19.11	≤8.00	PASS
		2440	-17.76	≤8.00	PASS
		2480	-18.76	≤8.00	PASS



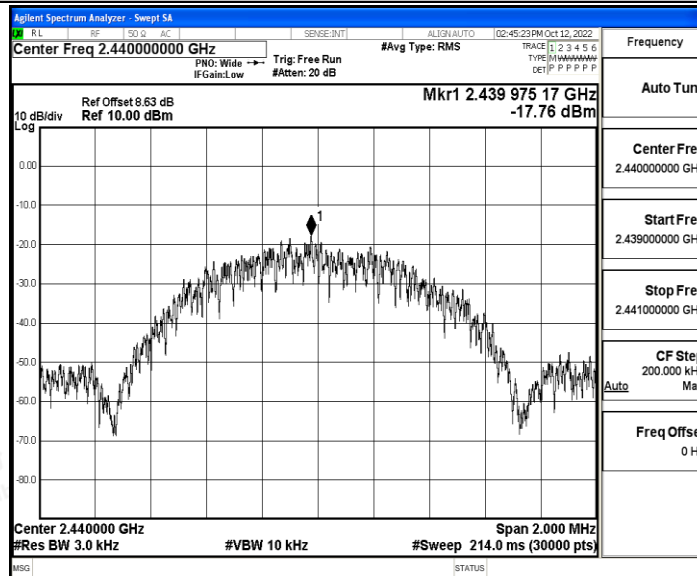


Test Graphs

BLE_Ant_2402

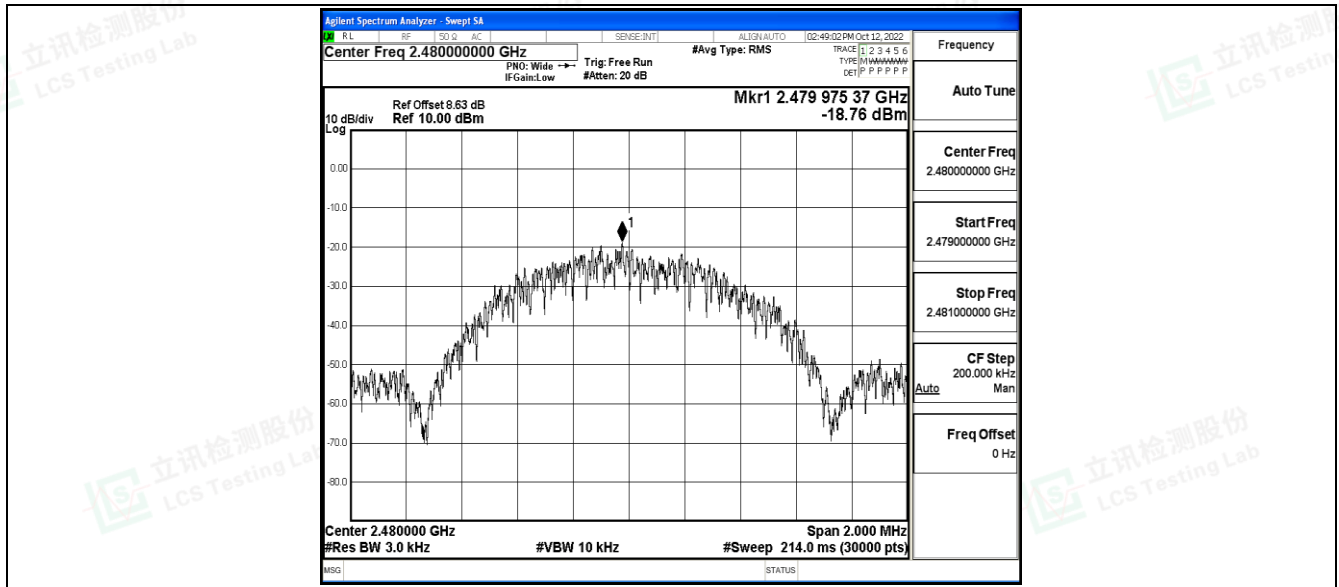


BLE_Ant_2440



BLE_Ant_2480







B.5 Band edge measurements

Test Result

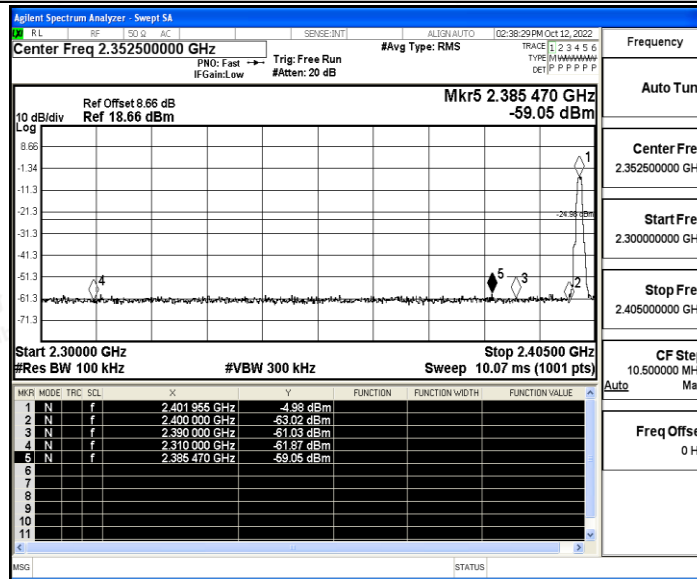
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-4.98	-59.05	≤-24.98	PASS
		High	2480	-4.56	-58.24	≤-24.56	PASS



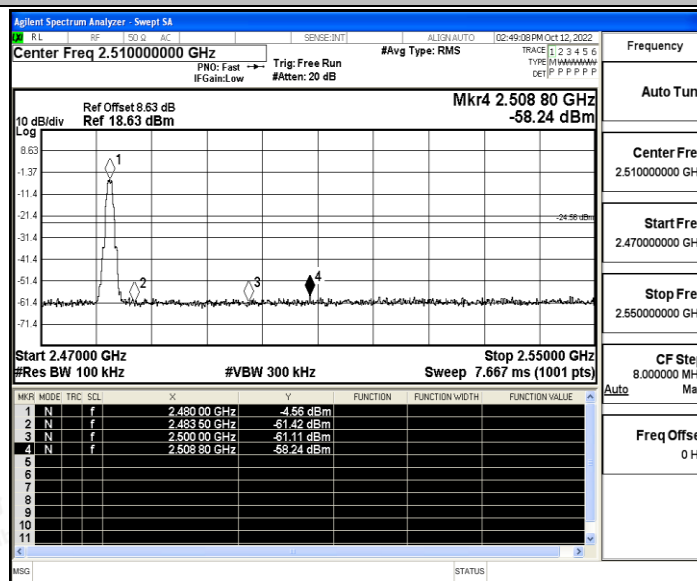


Test Graphs

BLE_Ant_Low_2402



BLE_Ant_High_2480





B.6 Conducted Spurious Emission

Test Result

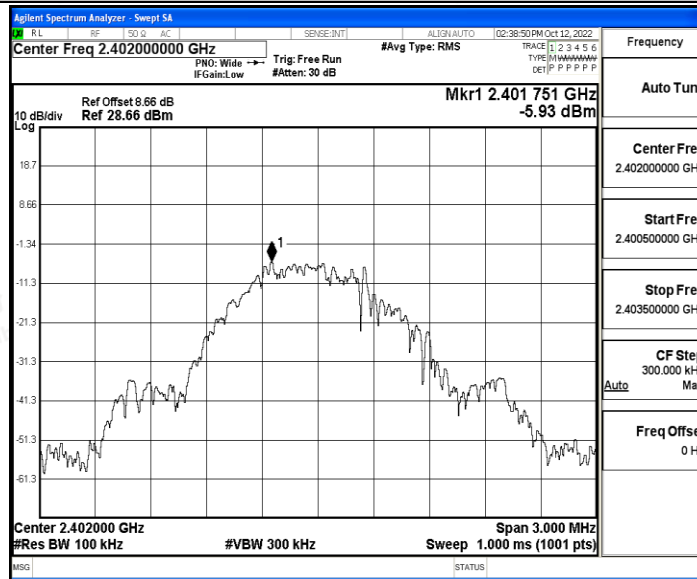
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	-5.93	-5.93	---	PASS
			30~1000	-5.93	-60.57	≤-25.93	PASS
			1000~26500	-5.93	-45.58	≤-25.93	PASS
		2440	Reference	-3.70	-3.70	---	PASS
			30~1000	-3.70	-60.47	≤-23.7	PASS
			1000~26500	-3.70	-45.94	≤-23.7	PASS
		2480	Reference	-4.88	-4.88	---	PASS
			30~1000	-4.88	-60.12	≤-24.88	PASS
			1000~26500	-4.88	-46.17	≤-24.88	PASS



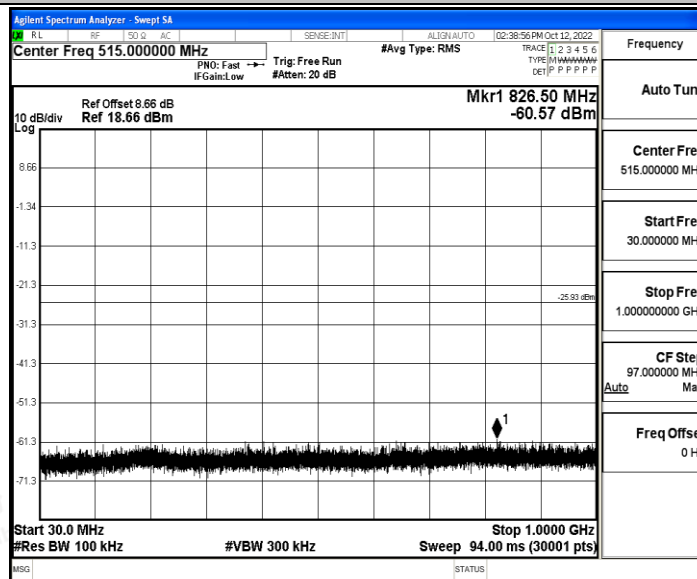


Test Graphs

BLE_Ant_2402_0~Reference

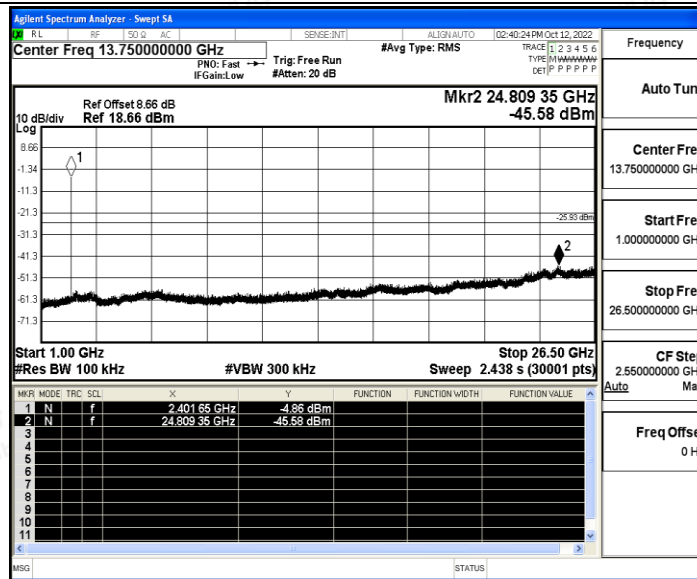


BLE_Ant_2402_30~1000

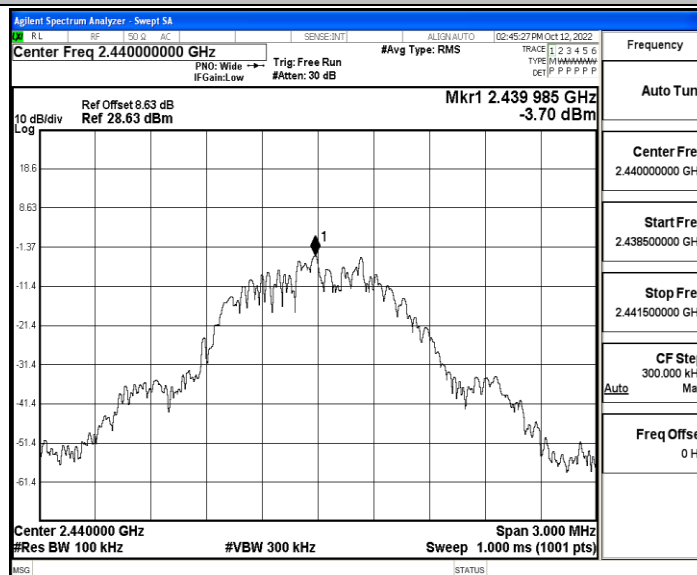


BLE_Ant_2402_1000~26500



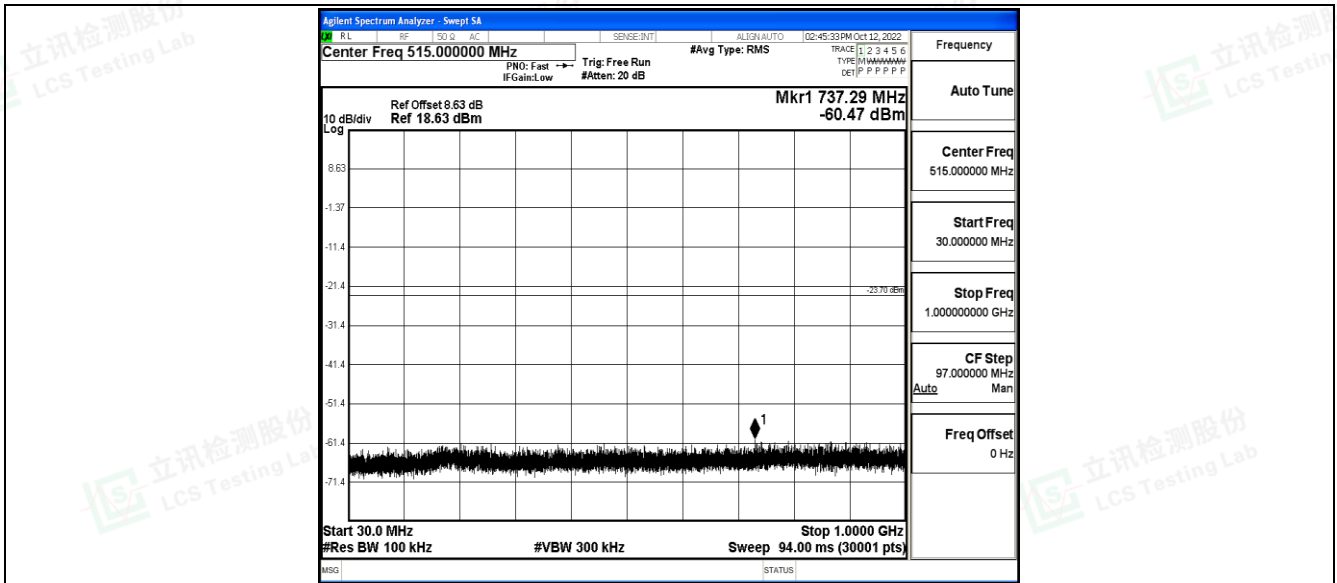


BLE_Ant_2440_0~Reference

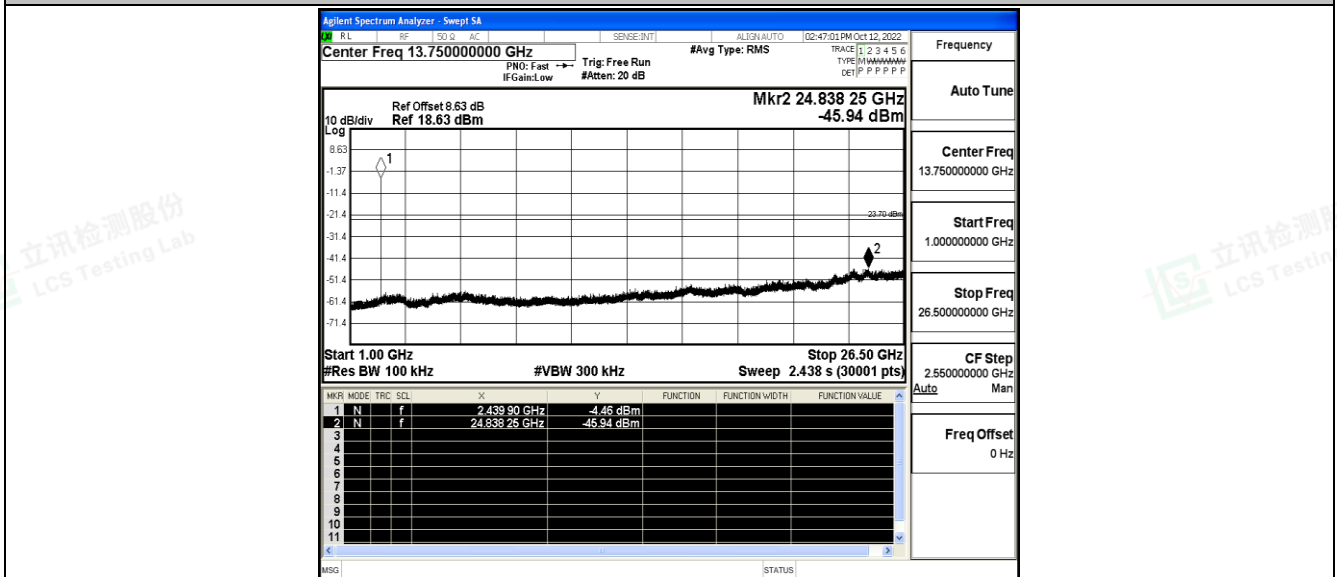


BLE_Ant_2440_30~1000



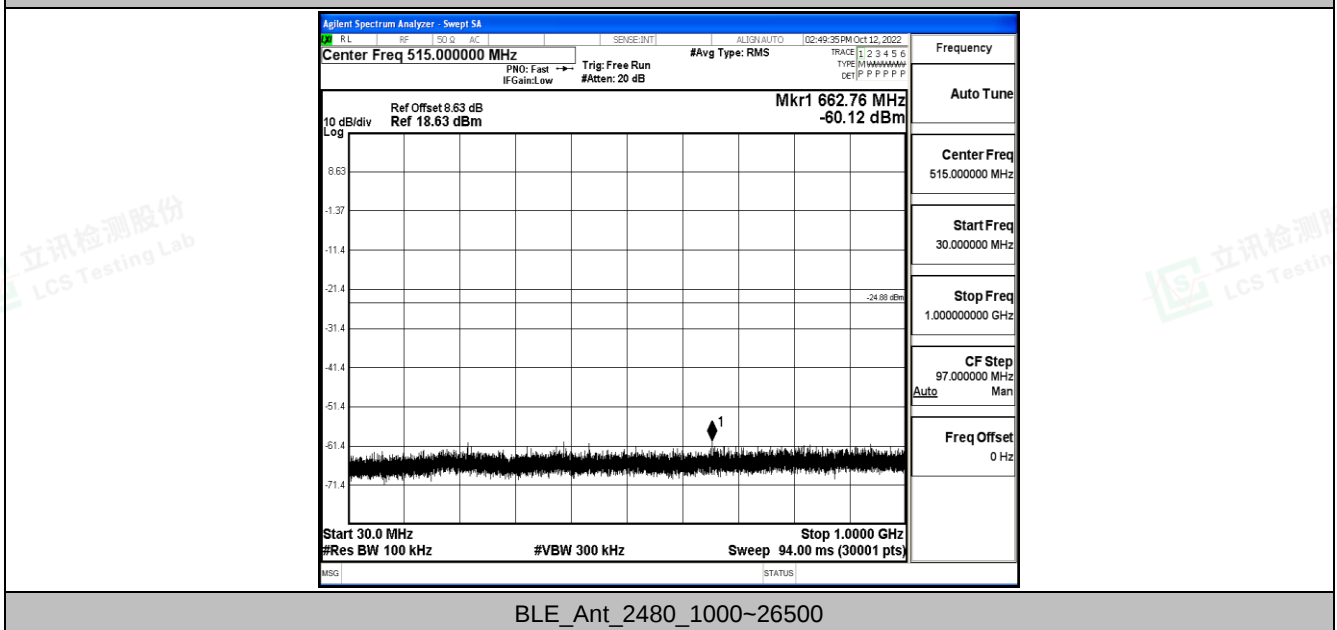
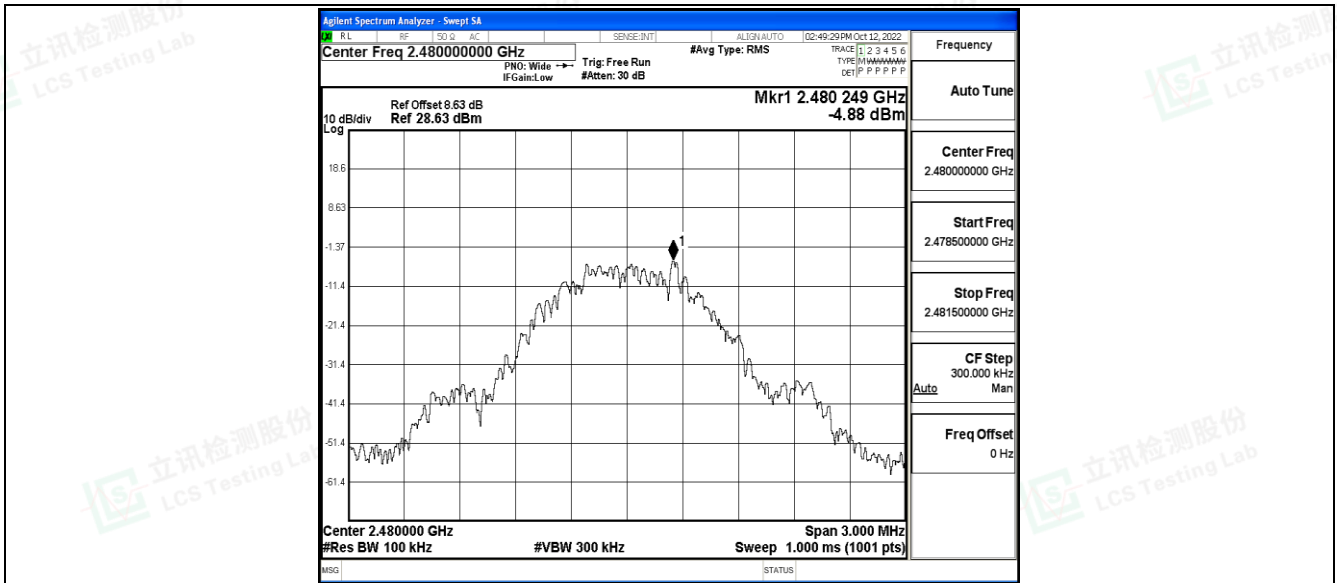


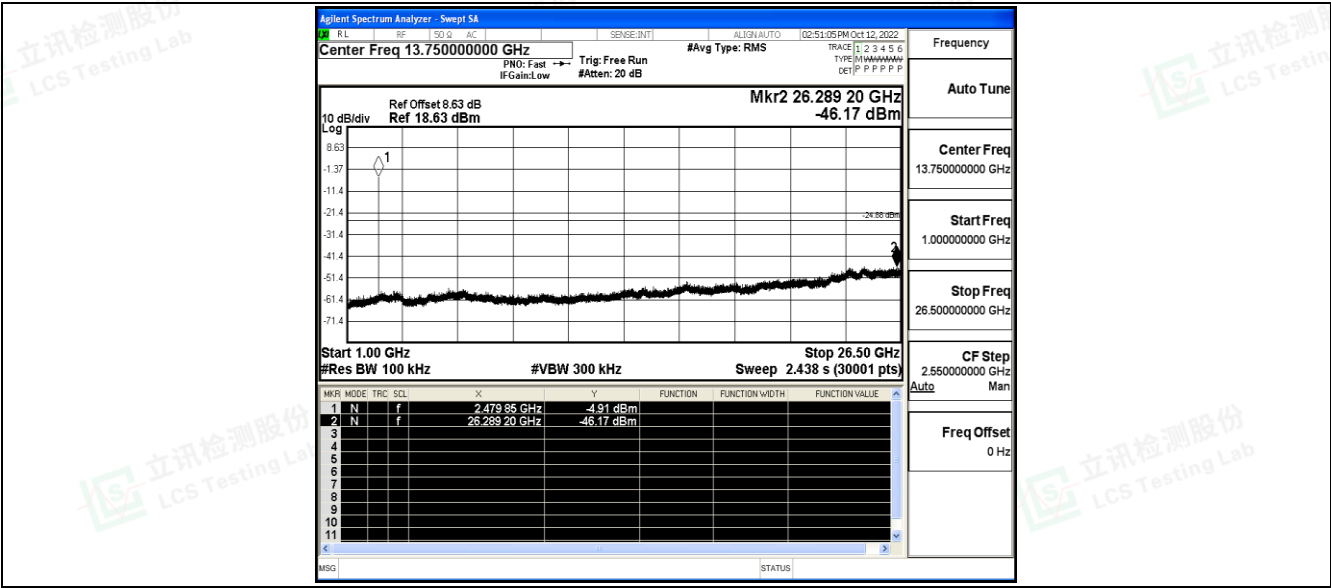
BLE_Ant_2440_1000~26500



BLE_Ant_2480_0~Reference









B.7 Duty Cycle

Test Result

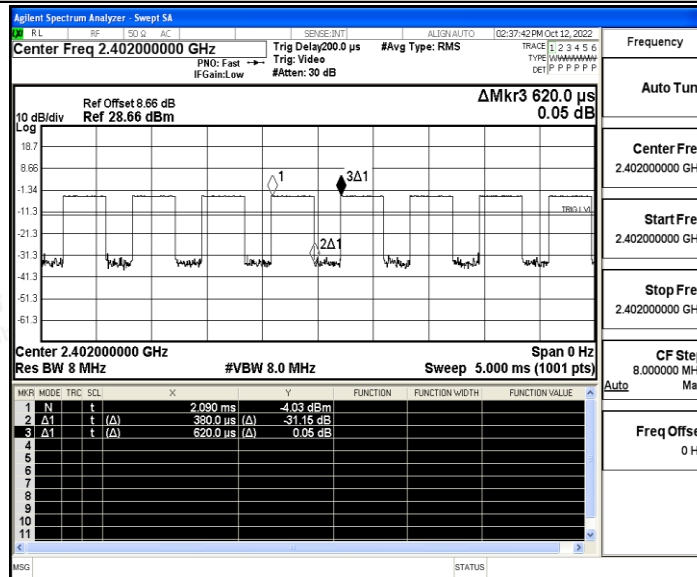
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	0.38	0.62	0.6129	61.29	2.13	2.63	---	---
		2440	0.38	0.63	0.6032	60.32	2.20	2.63	---	---
		2480	0.38	0.62	0.6129	61.29	2.13	2.63	---	---



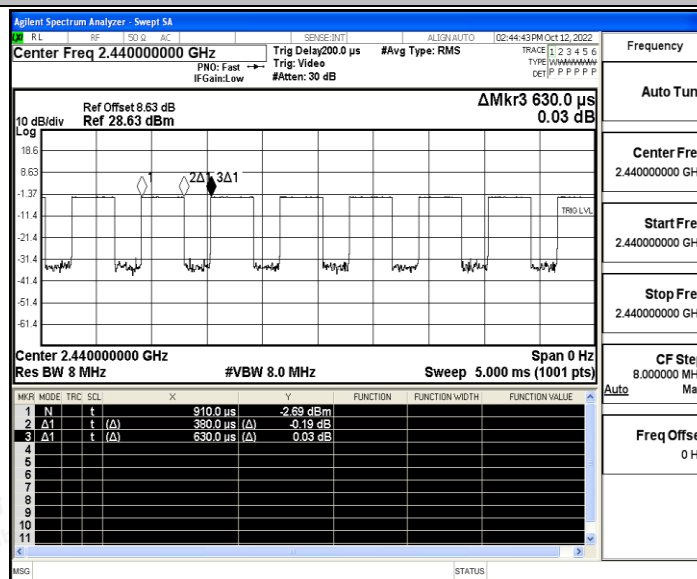


Test Graphs

BLE_Ant_2402

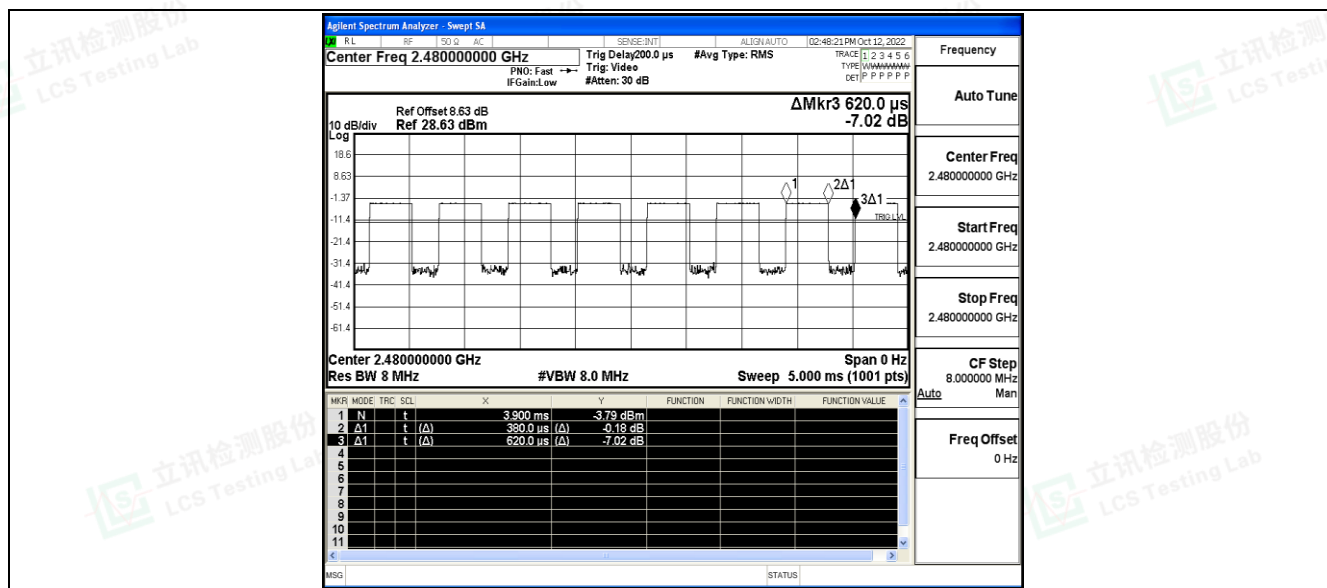


BLE_Ant_2440



BLE_Ant_2480







B.8 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	-57.11	≤-41.20	38.09	≤54	PASS
				AV	2380.850	-56.48	≤-41.20	38.72	≤54	PASS
				AV	2390.000	-56.8	≤-41.20	38.40	≤54	PASS
				Peak	2310.000	-50.53	≤-21.20	44.67	≤74	PASS
				Peak	2328.665	-46.68	≤-21.20	48.52	≤74	PASS
				Peak	2390.000	-50.94	≤-21.20	44.26	≤74	PASS
		High	2480	AV	2483.500	-54.86	≤-41.20	40.34	≤54	PASS
				AV	2483.520	-54.86	≤-41.20	40.34	≤54	PASS
				AV	2500.000	-56.38	≤-41.20	38.82	≤54	PASS
				Peak	2483.500	-48.76	≤-21.20	46.44	≤74	PASS
				Peak	2492.480	-47.44	≤-21.20	47.76	≤74	PASS
				Peak	2500.000	-49.59	≤-21.20	45.61	≤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.

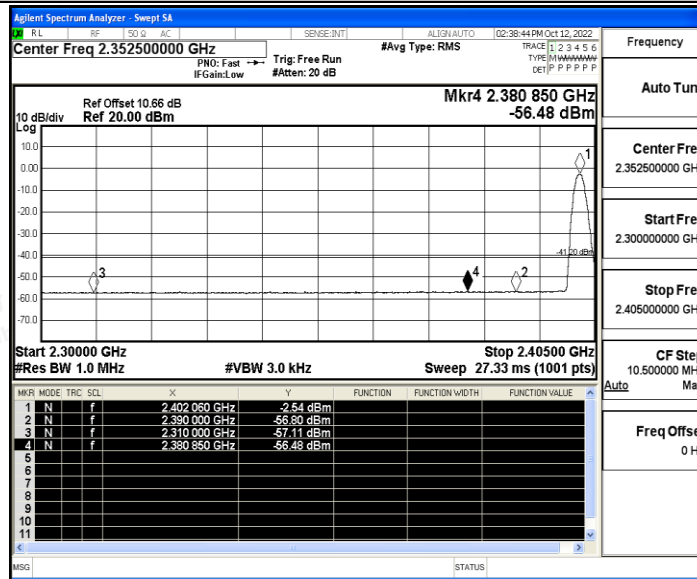


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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity

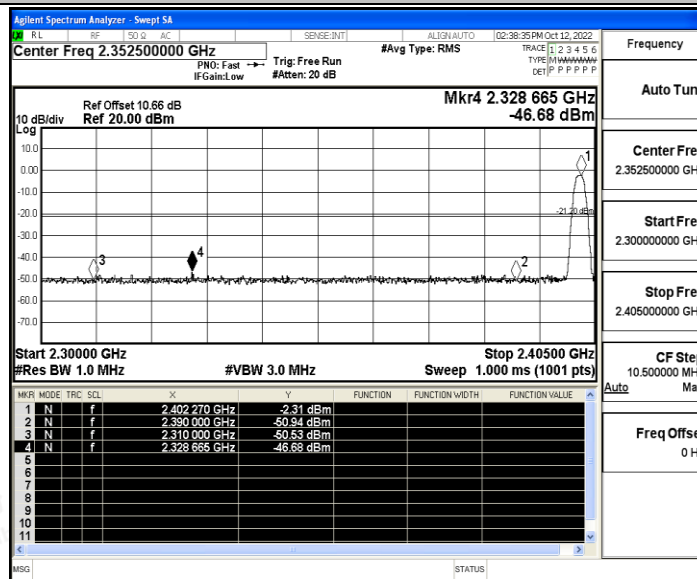


Test Graphs

BLE_Ant_Low_2402_AV

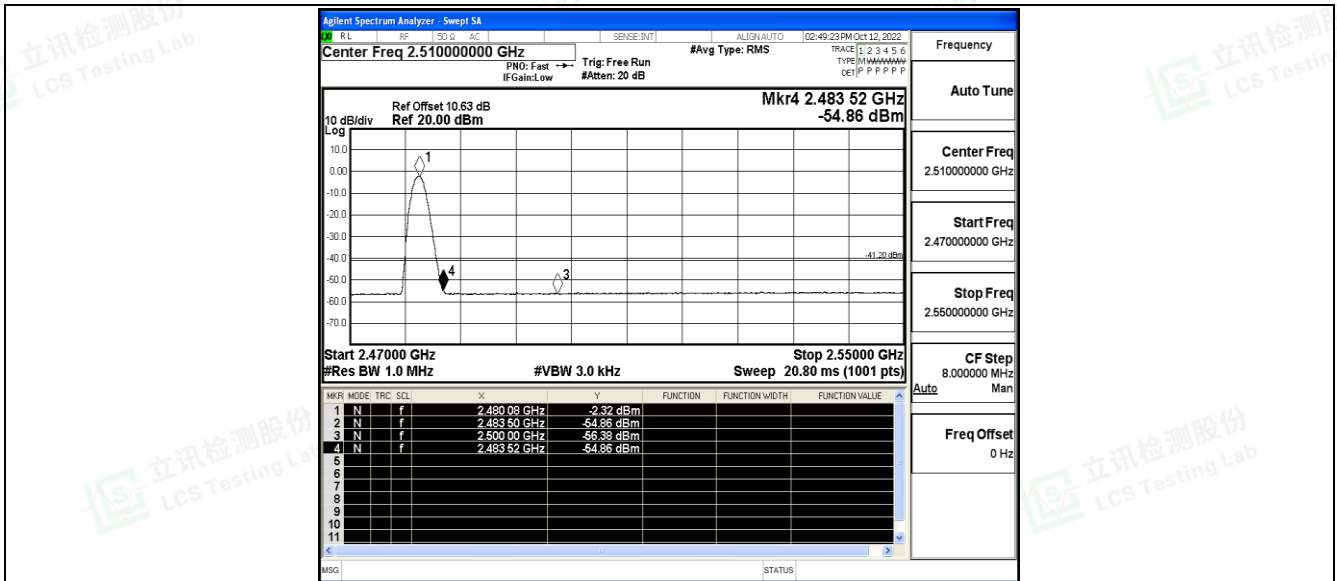


BLE_Ant_Low_2402_Peak



BLE_Ant_High_2480_AV





BLE_Ant_High_2480_Peak

