



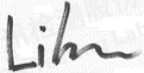
Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: slacker digital suspension tuner

Test Model: 3080-103

Environmental Conditions

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





A.1 DTS Bandwidth

Test Result

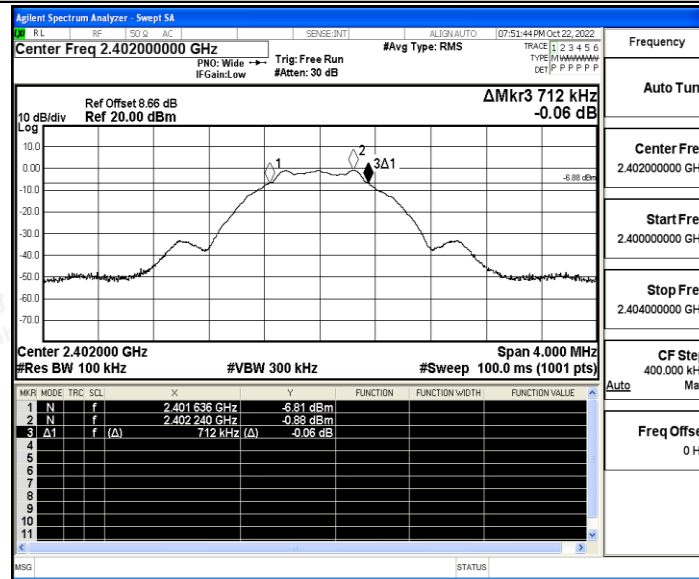
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE	Ant	2402	0.712	2401.636	2402.348	0.5	PASS
		2440	0.712	2439.632	2440.344	0.5	PASS
		2480	0.712	2479.632	2480.344	0.5	PASS



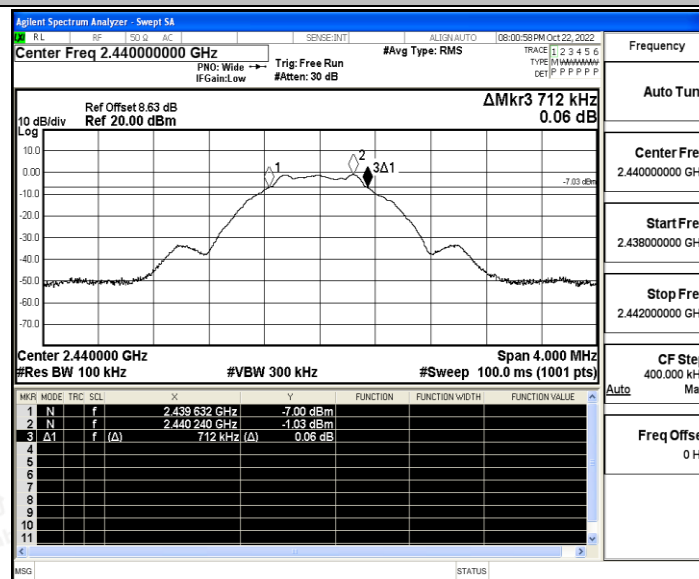


Test Graphs

BLE_Ant_2402

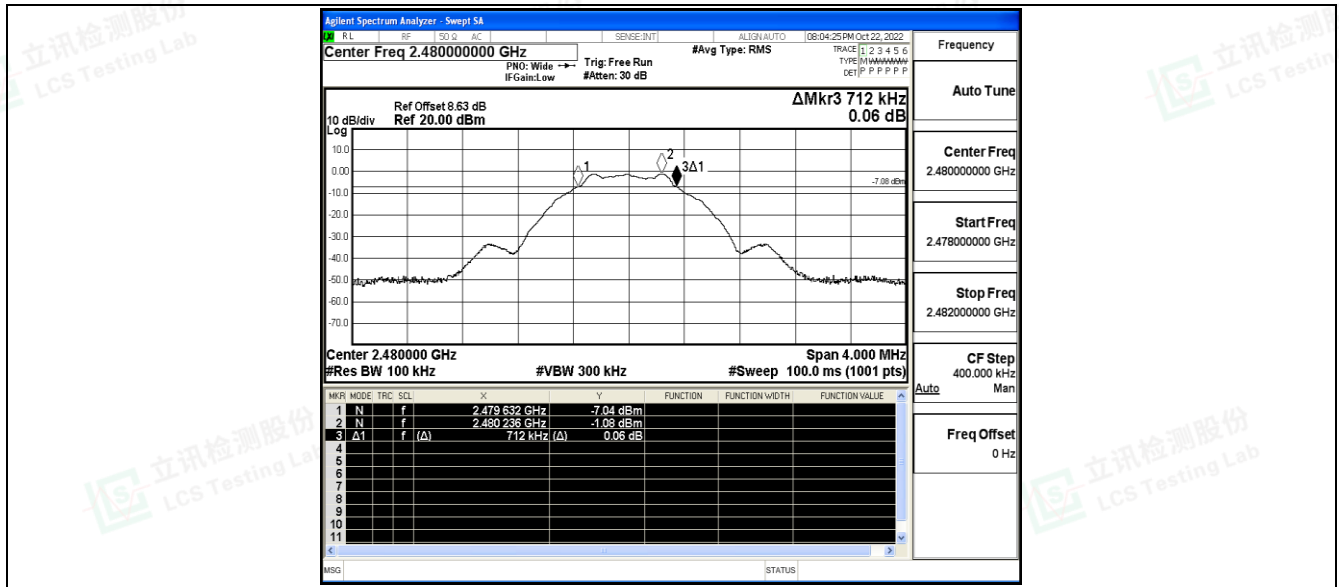


BLE_Ant_2440



BLE_Ant_2480







A.2 Maximum conducted output power

Test Result

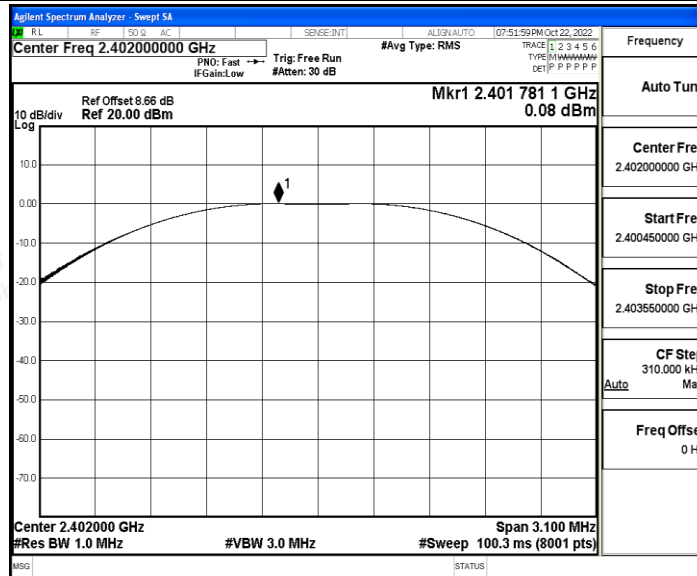
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	0.09	≤30	PASS
		2440	-0.06	≤30	PASS
		2480	-0.13	≤30	PASS



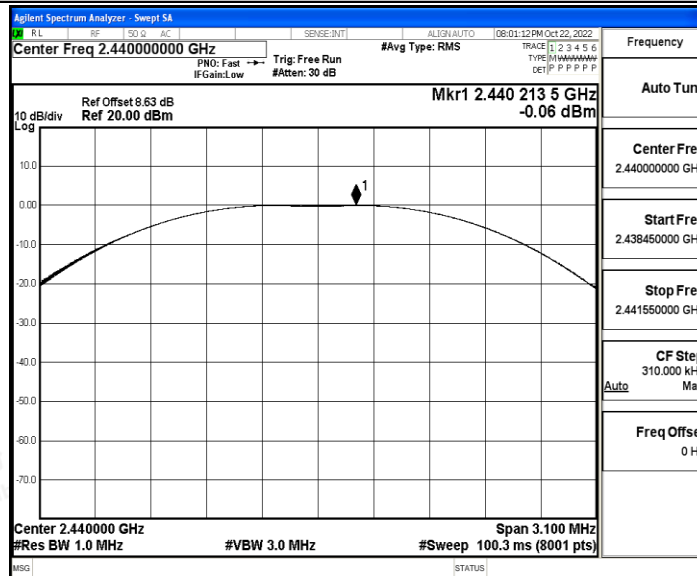


Test Graphs

BLE_Ant_2402

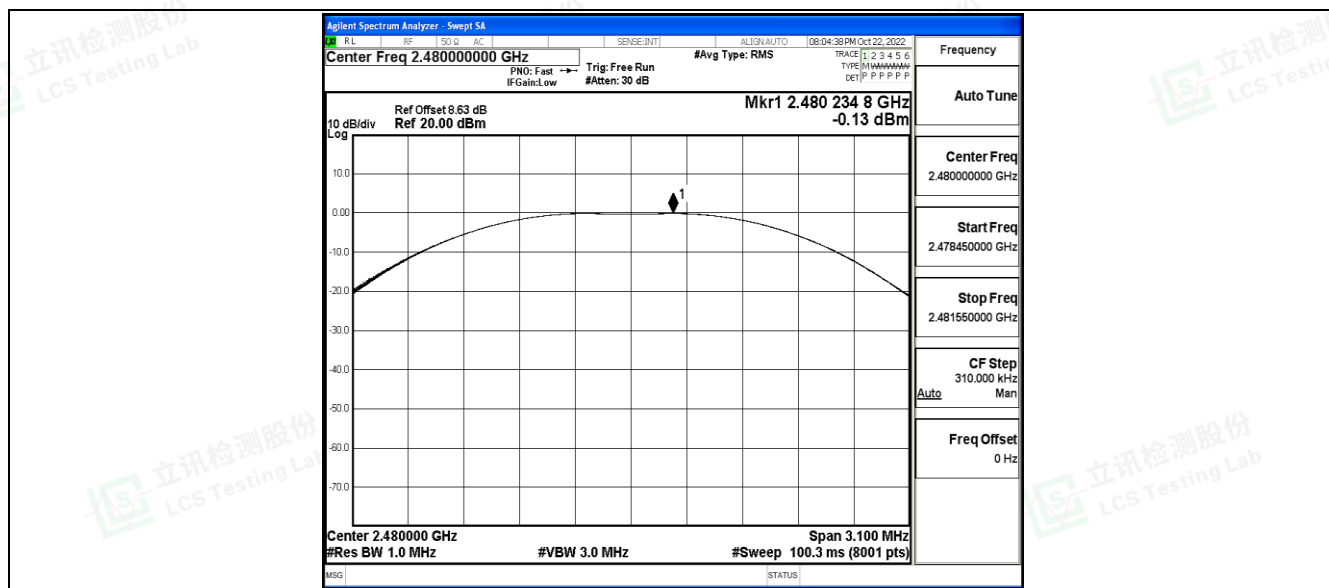


BLE_Ant_2440



BLE_Ant_2480





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518000, China
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A.3 Maximum power spectral density

Test Result

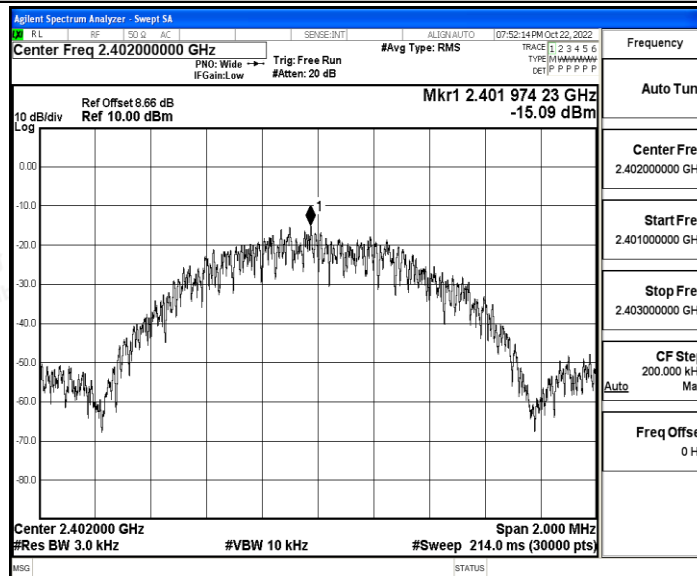
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	Ant	2402	-15.09	≤8.00	PASS
		2440	-15.14	≤8.00	PASS
		2480	-15.25	≤8.00	PASS



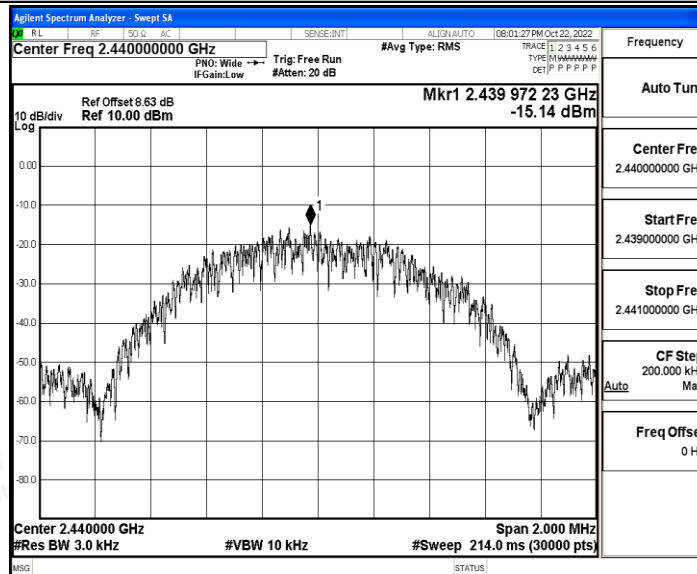


Test Graphs

BLE_Ant_2402

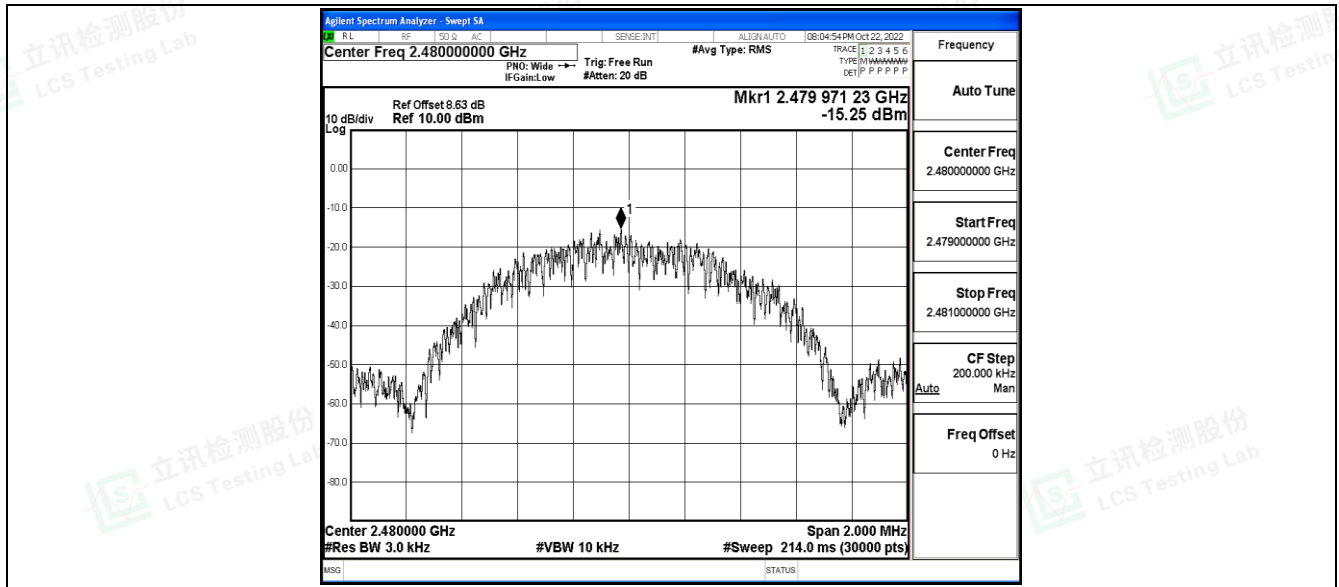


BLE_Ant_2440



BLE_Ant_2480







A.4 Band edge measurements

Test Result

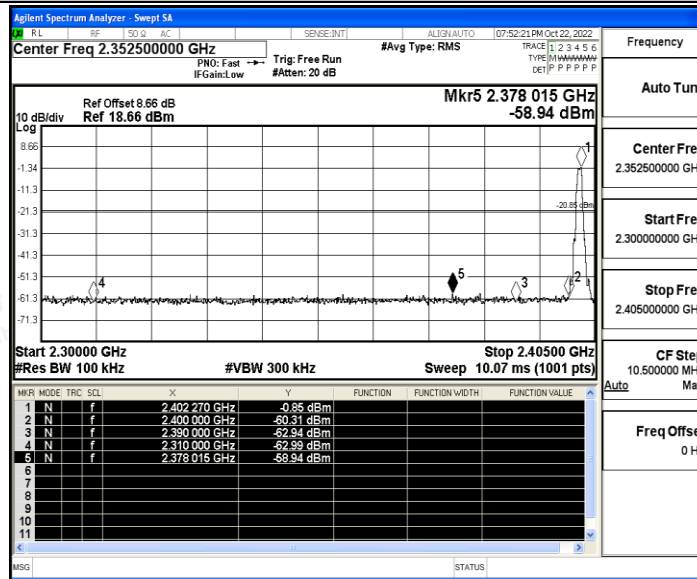
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	Low	2402	-0.85	-58.95	≤-20.85	PASS
		High	2480	-1.10	-57.93	≤-21.1	PASS



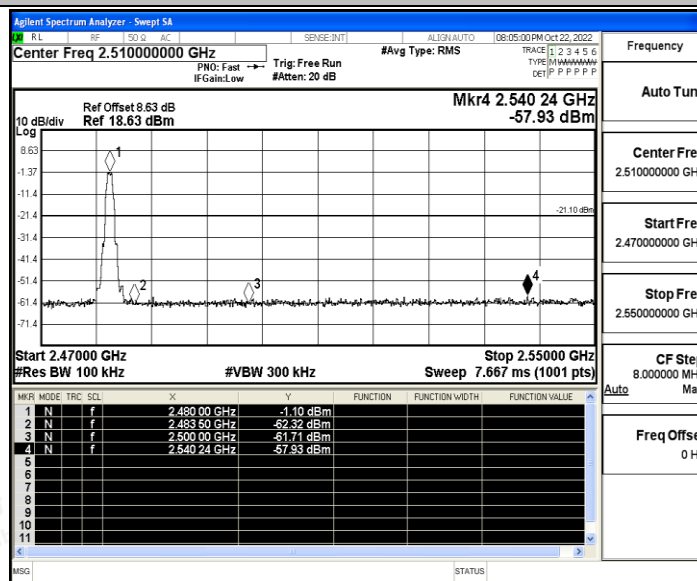


Test Graphs

BLE_Ant_Low_2402



BLE_Ant_High_2480





A.5 Conducted Spurious Emission

Test Result

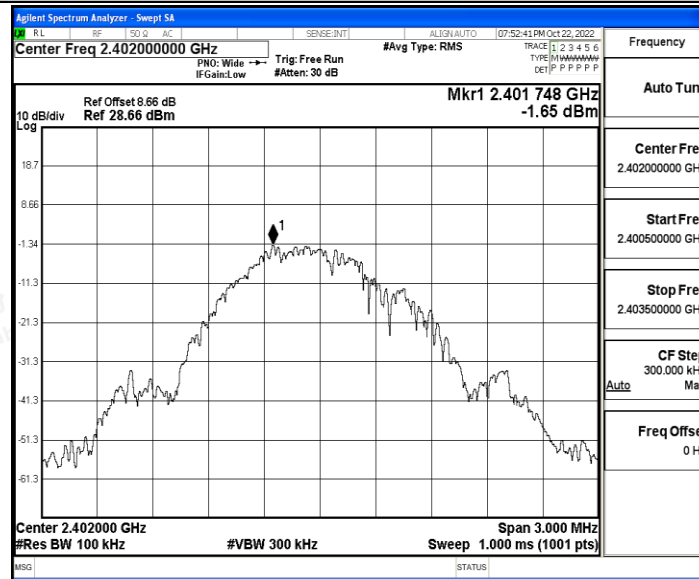
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE	Ant	2402	Reference	-1.65	-1.65	---	PASS
			30~1000	-1.65	-60.89	≤-21.65	PASS
			1000~26500	-1.65	-46.11	≤-21.65	PASS
		2440	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-60.66	≤-21.43	PASS
			1000~26500	-1.43	-46.1	≤-21.43	PASS
		2480	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-60.03	≤-21.27	PASS
			1000~26500	-1.27	-46.3	≤-21.27	PASS



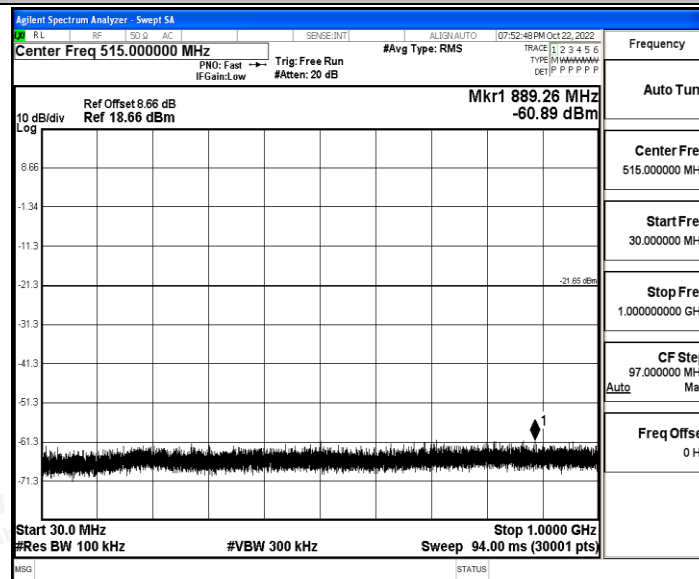


Test Graphs

BLE_Ant_2402_0~Reference

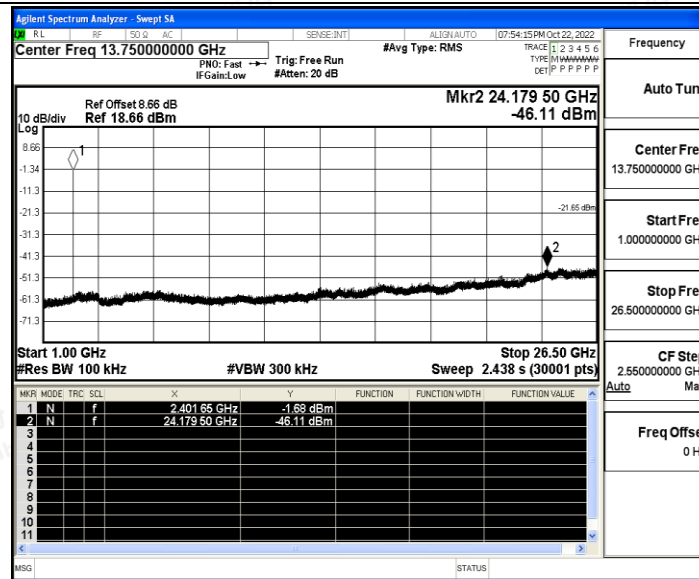


BLE_Ant_2402_30~1000

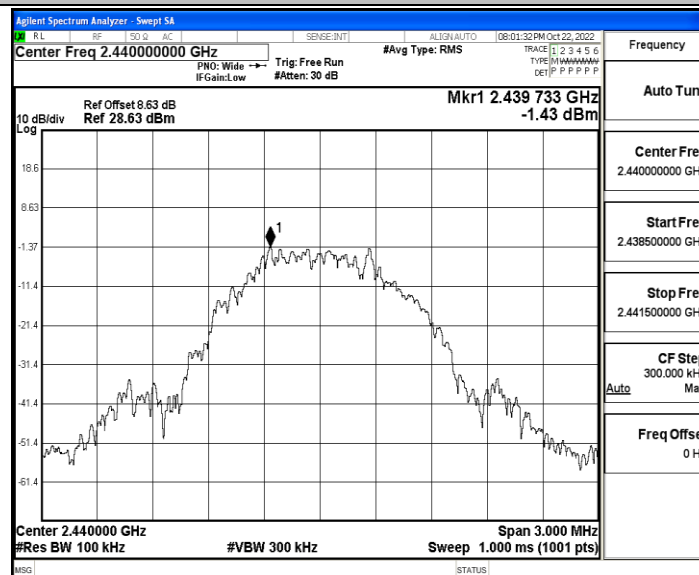


BLE_Ant_2402_1000~26500





BLE_Ant_2440_0~Reference



BLE_Ant_2440_30~1000

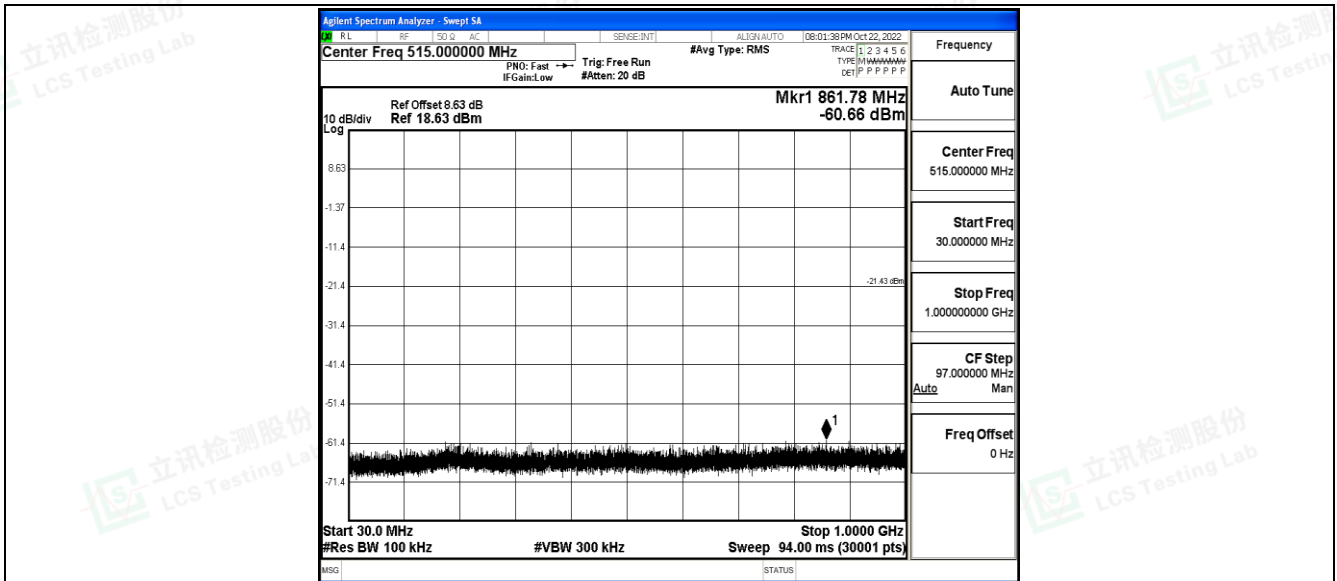


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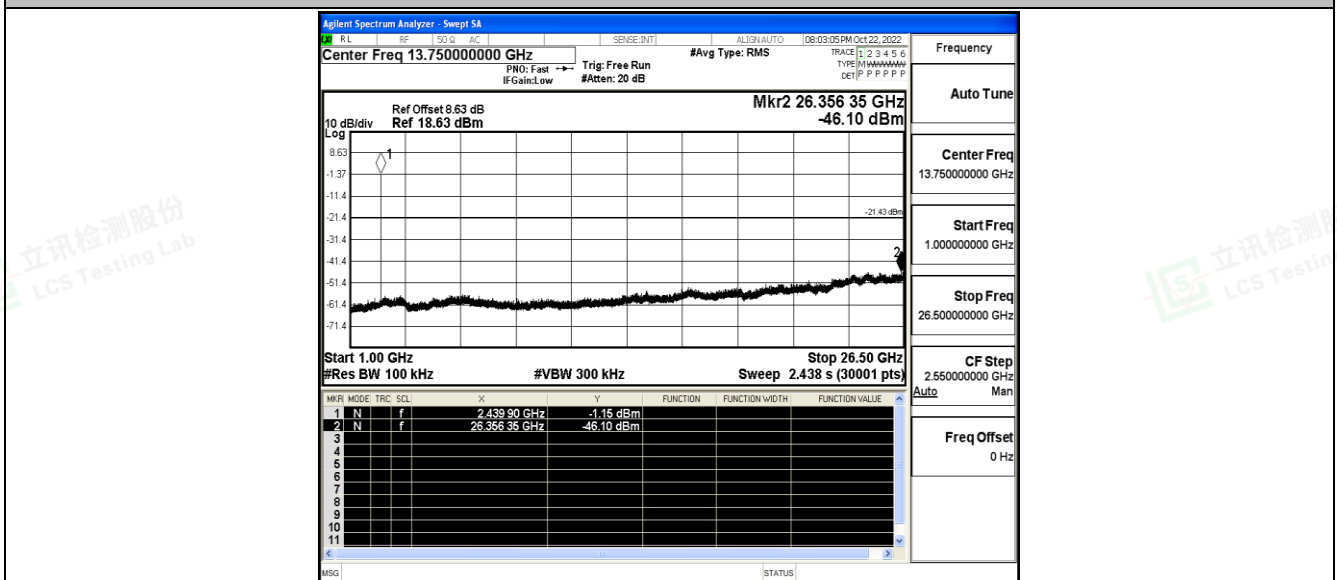
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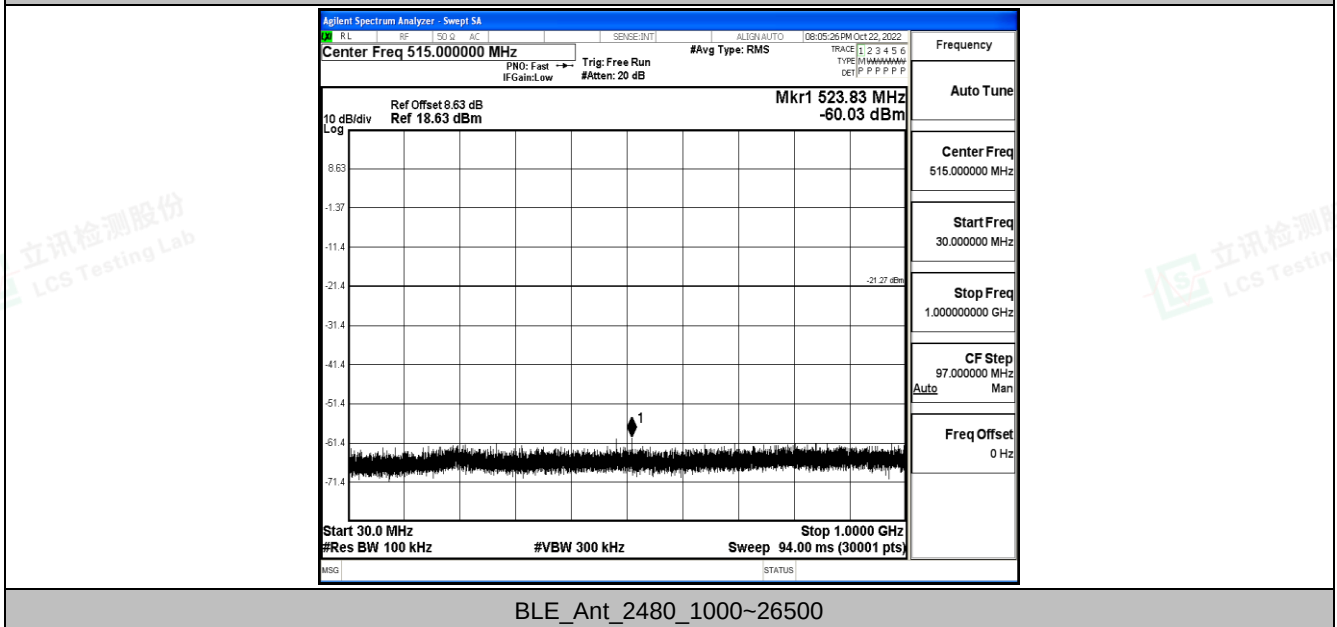
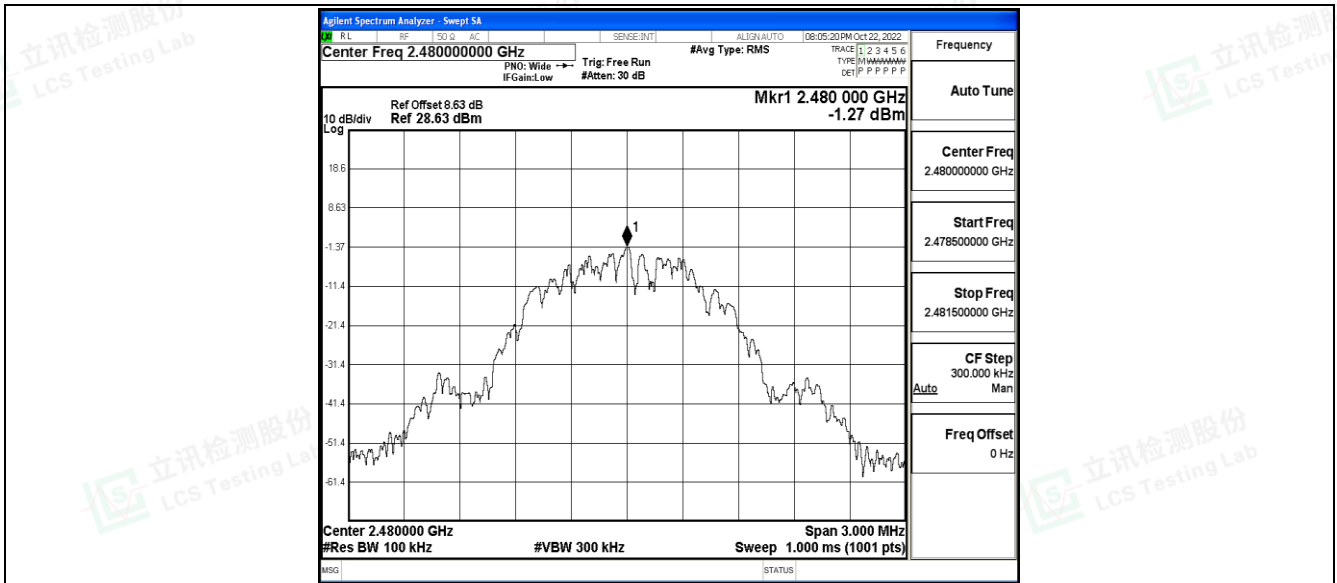


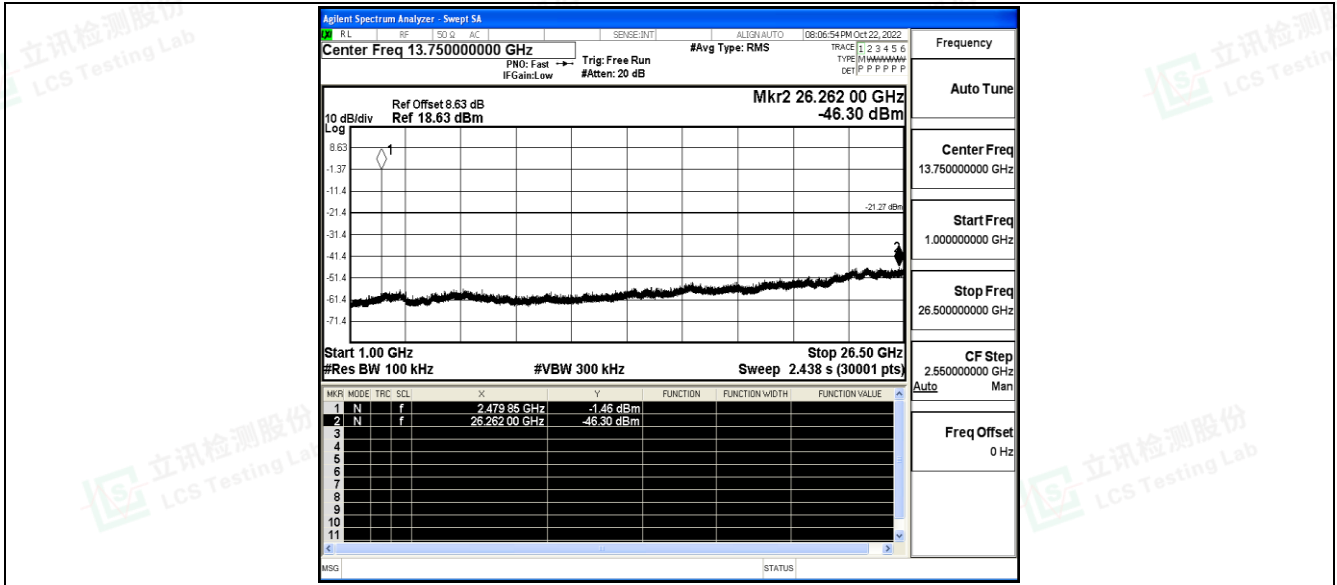
BLE_Ant_2440_1000~26500



BLE_Ant_2480_0~Reference









A.6 Duty Cycle

Test Result

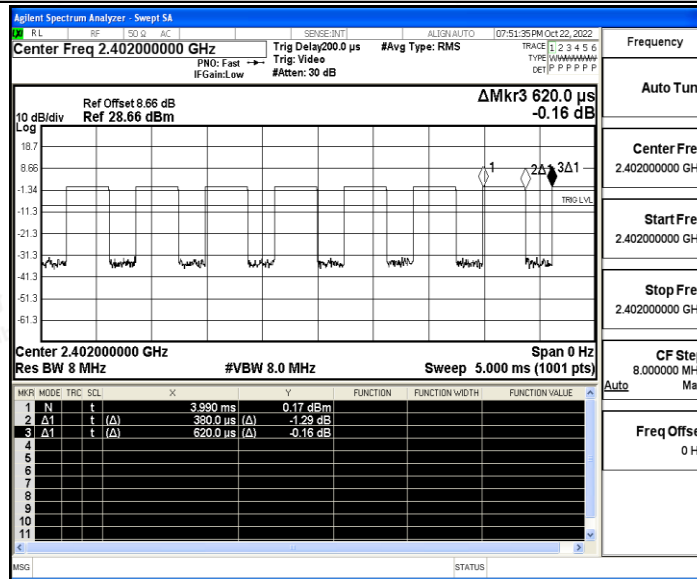
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE	Ant	2402	0.38	0.62	0.6129	61.29	2.13	2.63	---	---
		2440	0.39	0.63	0.6190	61.90	2.08	2.56	---	---
		2480	0.39	0.63	0.6190	61.90	2.08	2.56	---	---



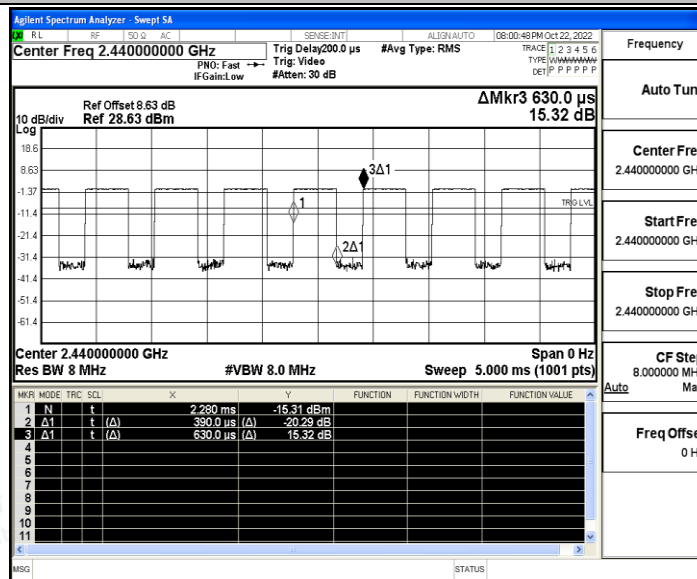


Test Graphs

BLE_Ant_2402

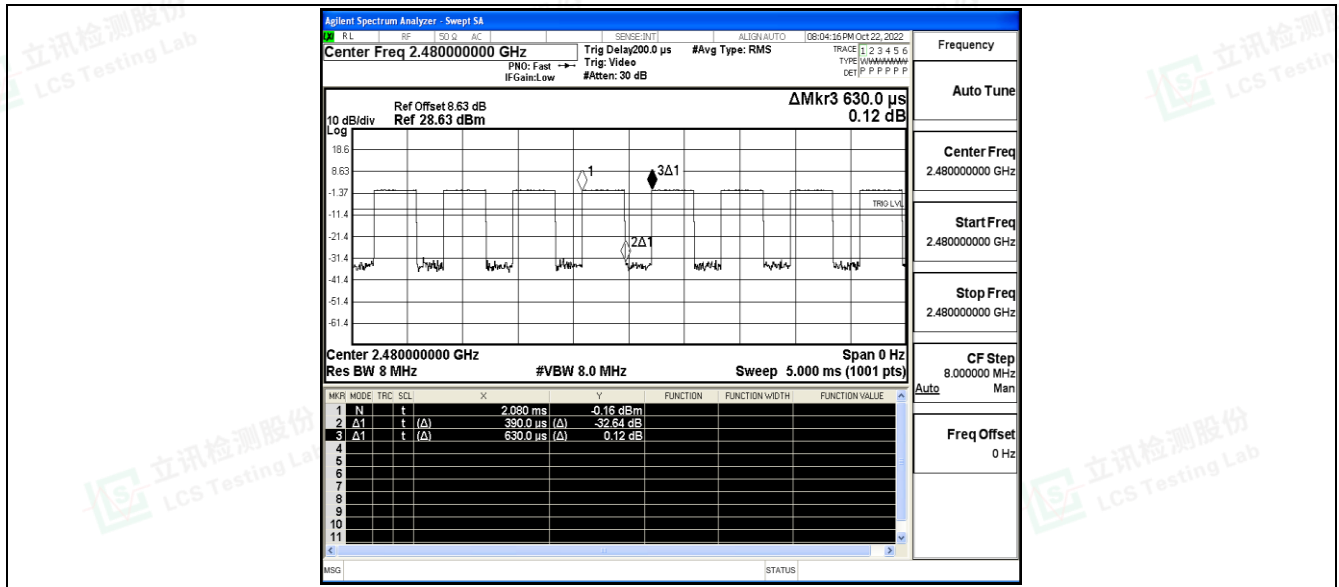


BLE_Ant_2440



BLE_Ant_2480







A.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	-57.51	≤-41.20	37.69	≤54	PASS
				AV	2388.410	-56.6	≤-41.20	38.60	≤54	PASS
				AV	2390.000	-56.99	≤-41.20	38.21	≤54	PASS
				Peak	2310.000	-49.87	≤-21.20	45.33	≤74	PASS
				Peak	2326.355	-47.92	≤-21.20	47.28	≤74	PASS
				Peak	2390.000	-50.67	≤-21.20	44.53	≤74	PASS
		High	2480	AV	2483.500	-53.55	≤-41.20	41.65	≤54	PASS
				AV	2483.520	-53.54	≤-41.20	41.66	≤54	PASS
				AV	2500.000	-56.46	≤-41.20	38.74	≤54	PASS
				Peak	2483.500	-49.48	≤-21.20	45.72	≤74	PASS
				Peak	2498.320	-47.28	≤-21.20	47.92	≤74	PASS
				Peak	2500.000	-49.91	≤-21.20	45.29	≤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.

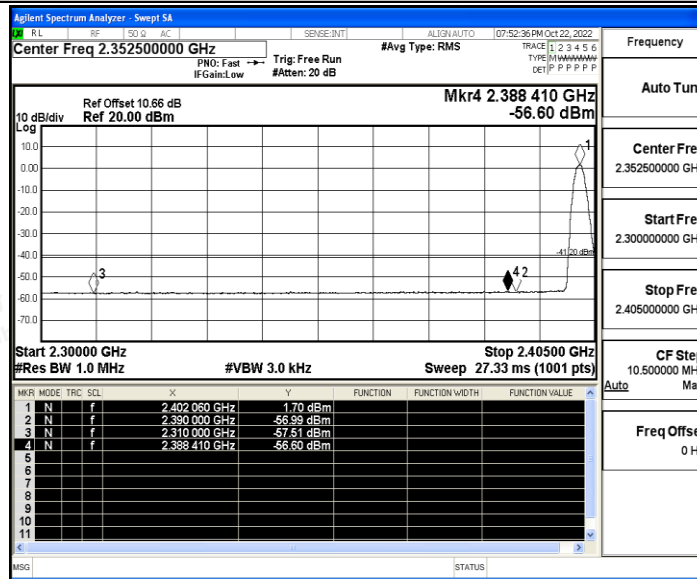


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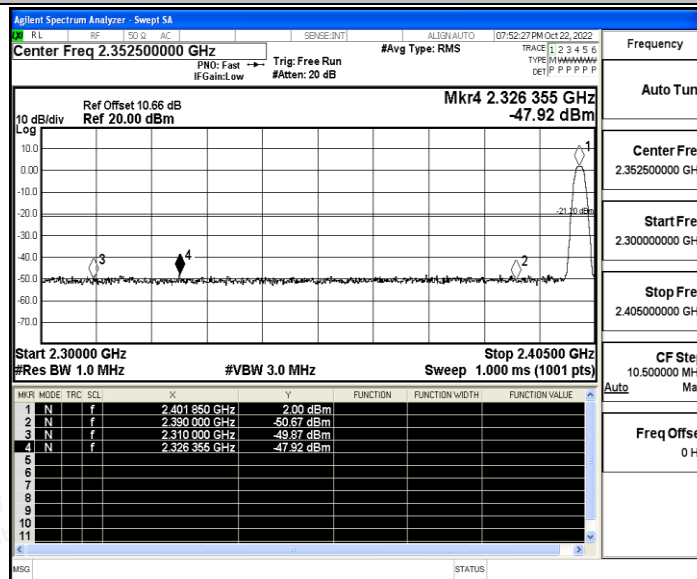


Test Graphs

BLE_Ant_Low_2402_AV

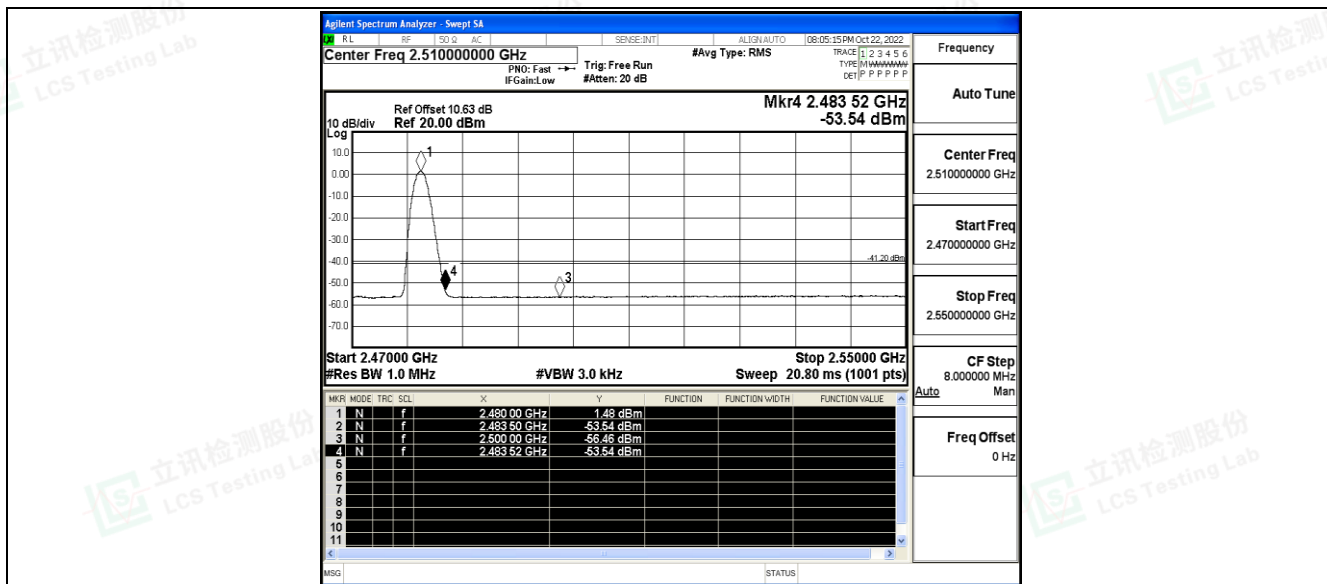


BLE_Ant_Low_2402_Peak



BLE_Ant_High_2480_AV





BLE_Ant_High_2480_Peak

