



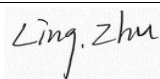
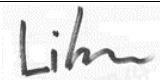
Appendix A

RF Test Data for BLE (Conducted Measurement)

Product Name: AXO POWER METER

Test Model: PM016-AXOcc

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	
	Ling Zhu
Supervised by:	
	Li Huan



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A.1 DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant	2402	0.704	2401.756	2402.460	0.5	PASS
		2440	0.708	2439.756	2440.464	0.5	PASS
		2480	0.712	2479.756	2480.468	0.5	PASS
BLE_2M	Ant	2402	1.152	2401.420	2402.572	0.5	PASS
		2440	1.156	2439.420	2440.576	0.5	PASS
		2480	1.156	2479.420	2480.576	0.5	PASS

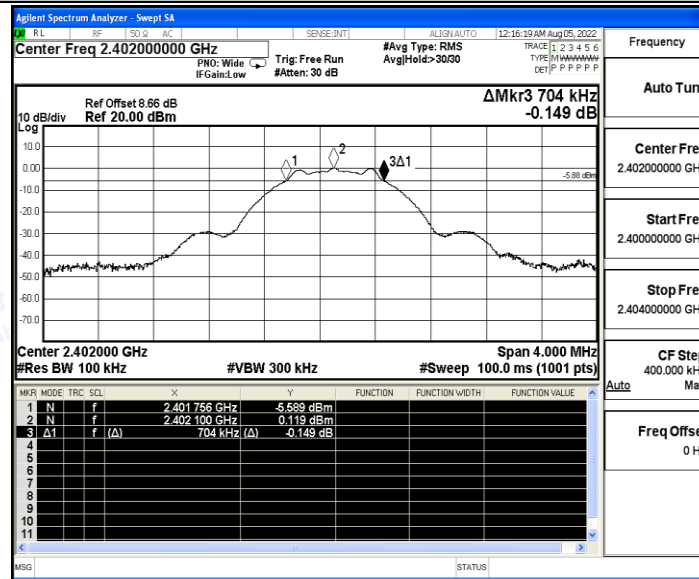


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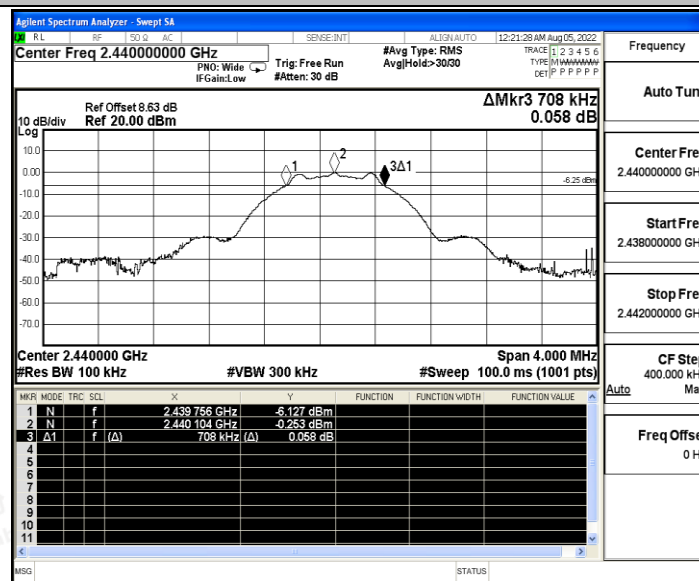


Test Graphs

BLE_1M_Ant_2402



BLE_1M_Ant_2440



BLE_1M_Ant_2480

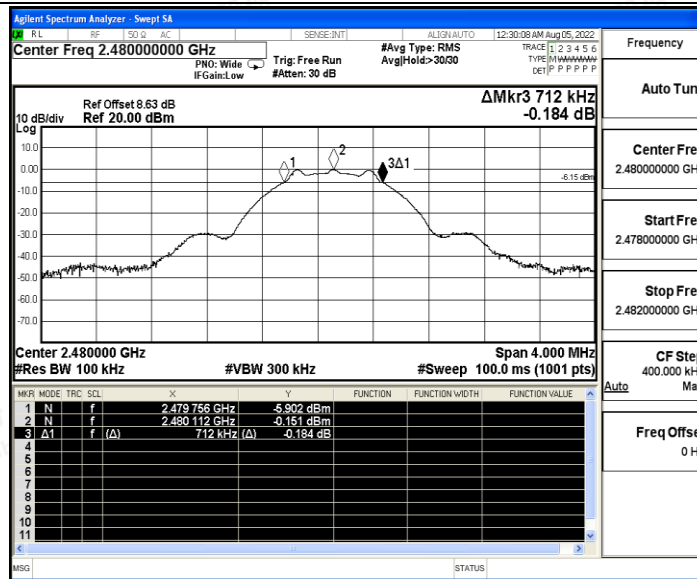


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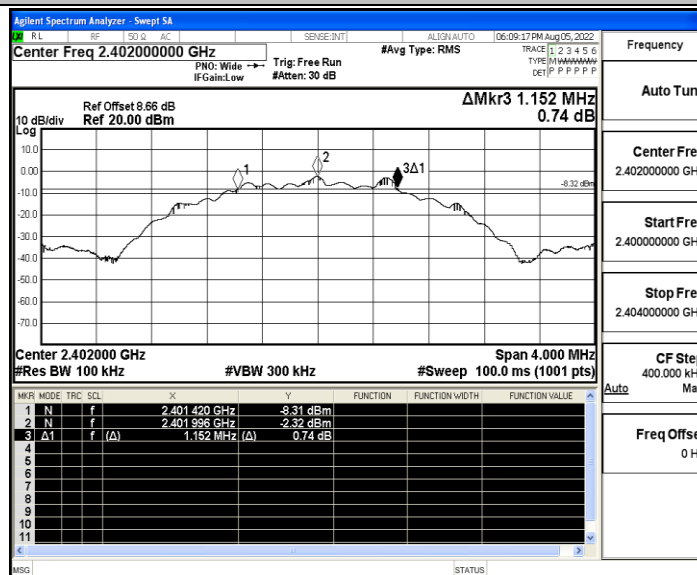
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BLE_2M_Ant_2402



BLE_2M_Ant_2440



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A.2 Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant	2402	1.0610	2401.576	2402.637	---	---
		2440	1.0567	2439.578	2440.634	---	---
		2480	1.0697	2479.576	2480.646	---	---
BLE_2M	Ant	2402	2.0672	2400.9787	2403.0459	---	---
		2440	2.0652	2438.9815	2441.0467	---	---
		2480	2.0694	2478.9774	2481.0468	---	---

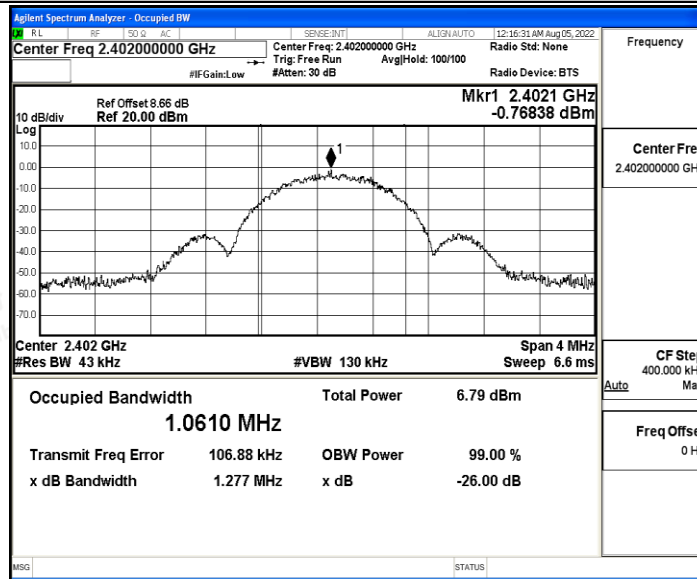


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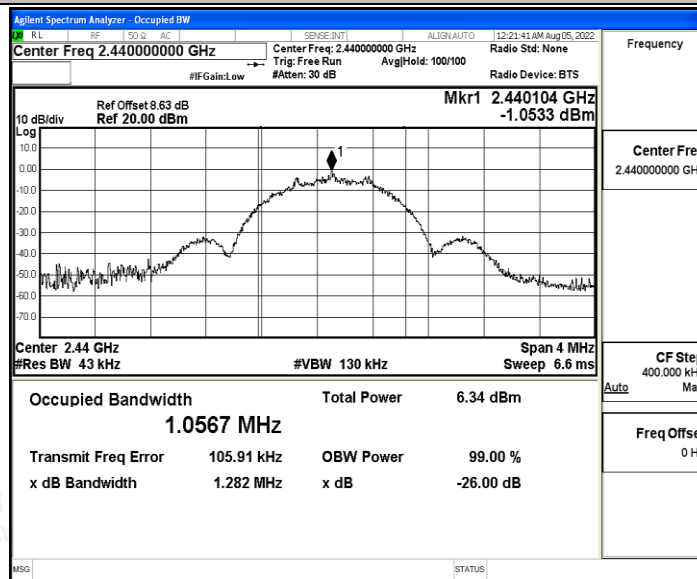


Test Graphs

BLE_1M_Ant_2402



BLE_1M_Ant_2440



BLE_1M_Ant_2480

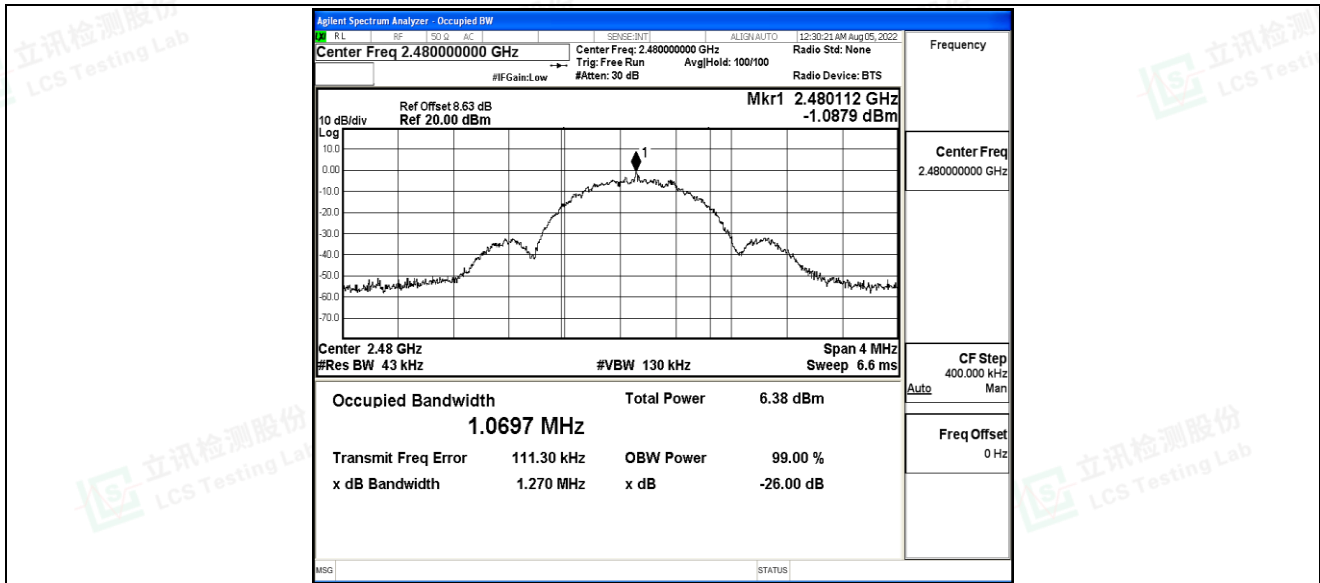


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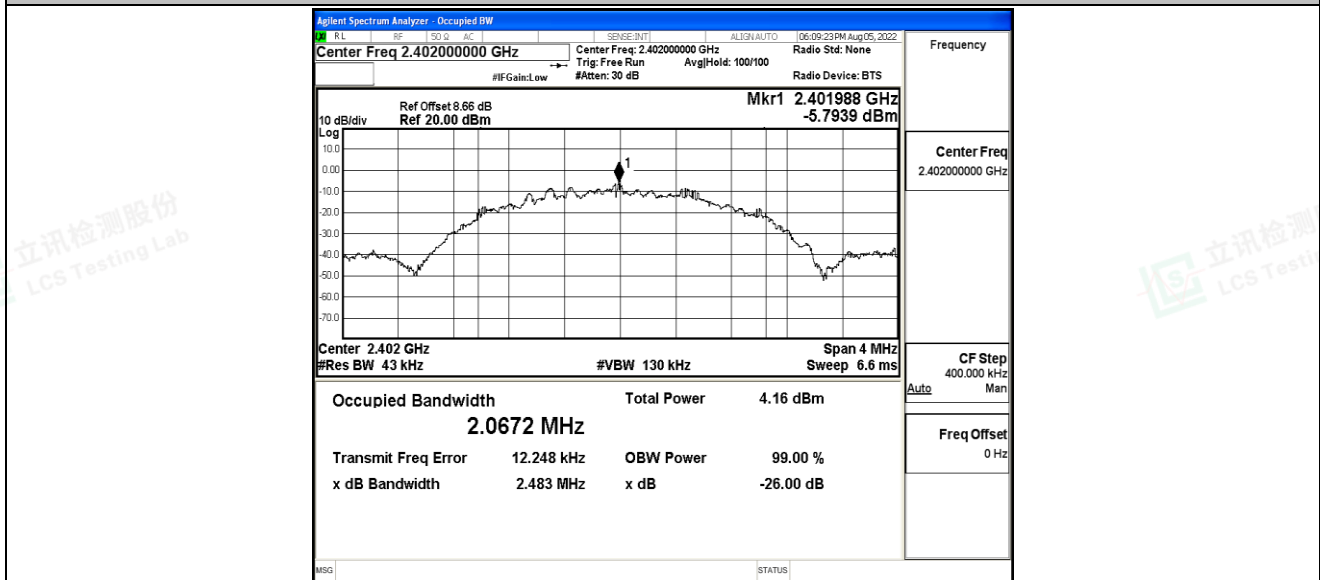
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BLE_2M_Ant_2402



BLE_2M_Ant_2440

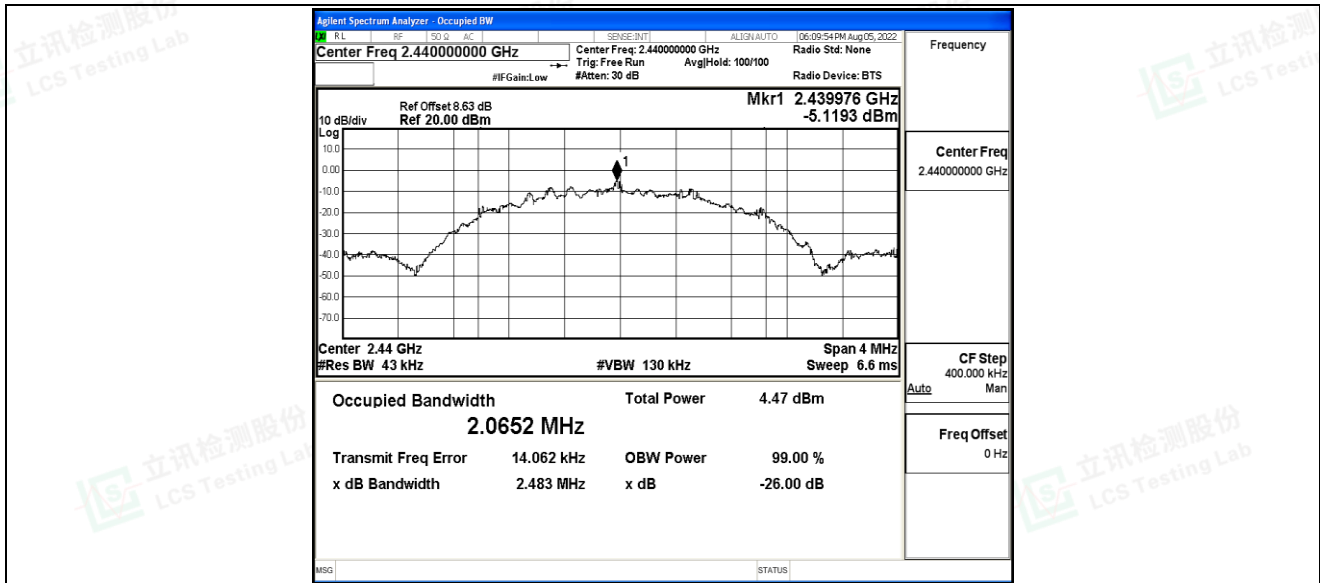


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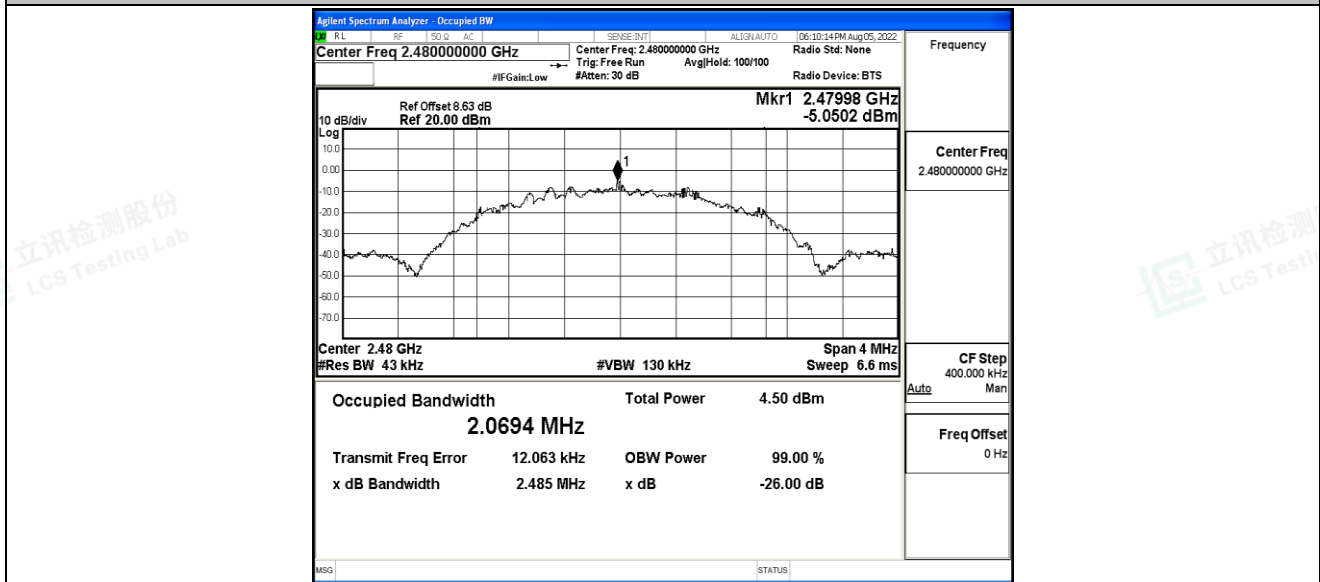
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BLE_2M_Ant_2480



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A.3 Maximum Conducted Output Power

Test Result

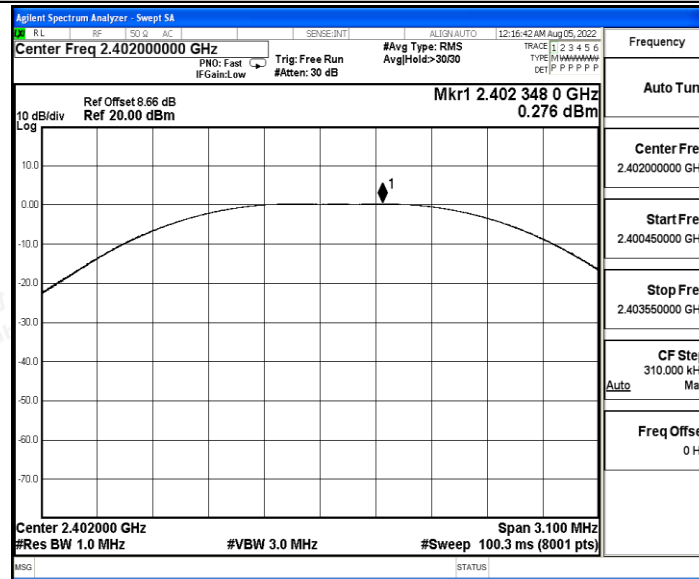
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant	2402	0.28	≤30	PASS
		2440	-0.07	≤30	PASS
		2480	-0.01	≤30	PASS
BLE_2M	Ant	2402	-1.52	≤30	PASS
		2440	-1.27	≤30	PASS
		2480	-1.22	≤30	PASS



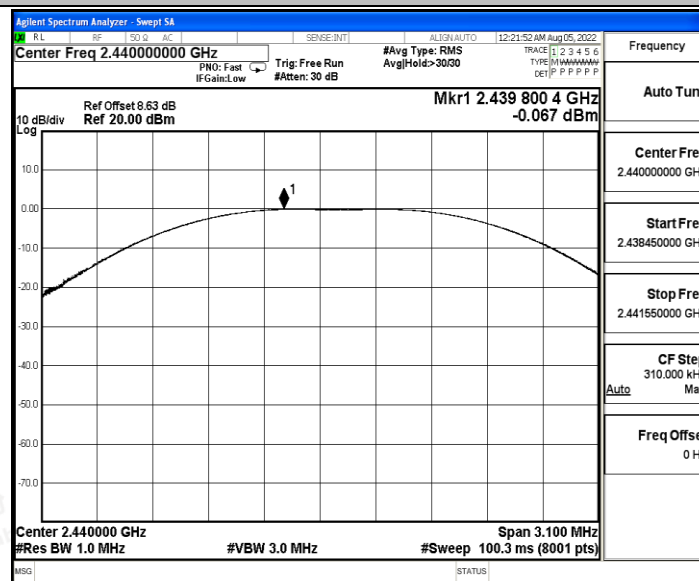


Test Graphs

BLE_1M_Ant_2402



BLE_1M_Ant_2440



BLE_1M_Ant_2480

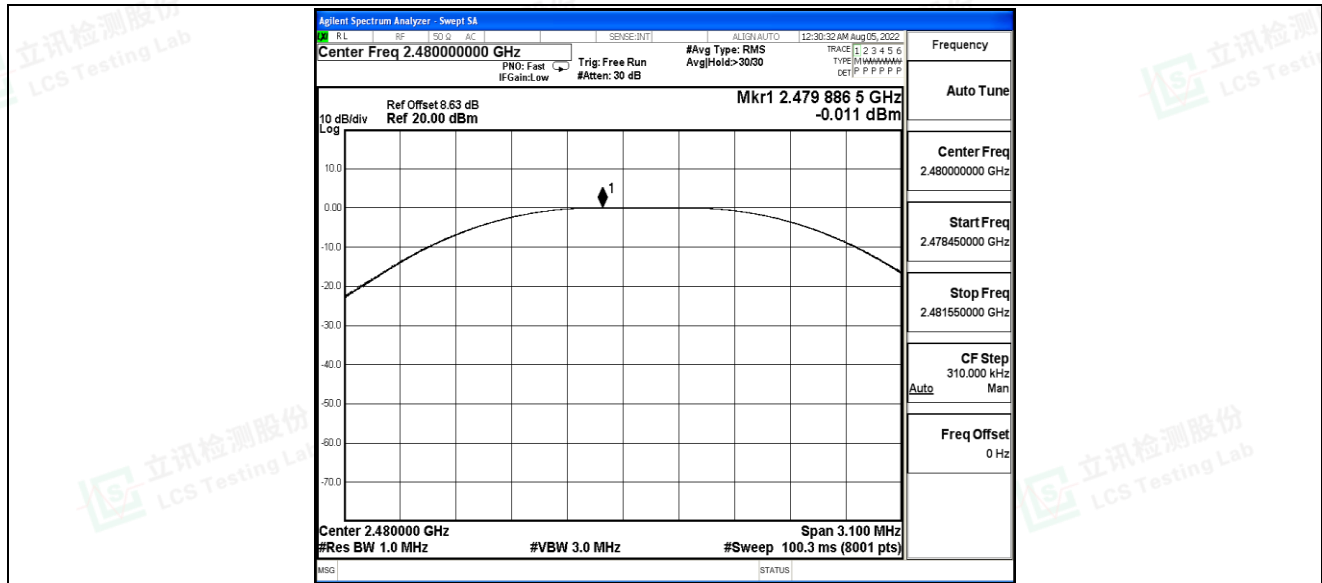


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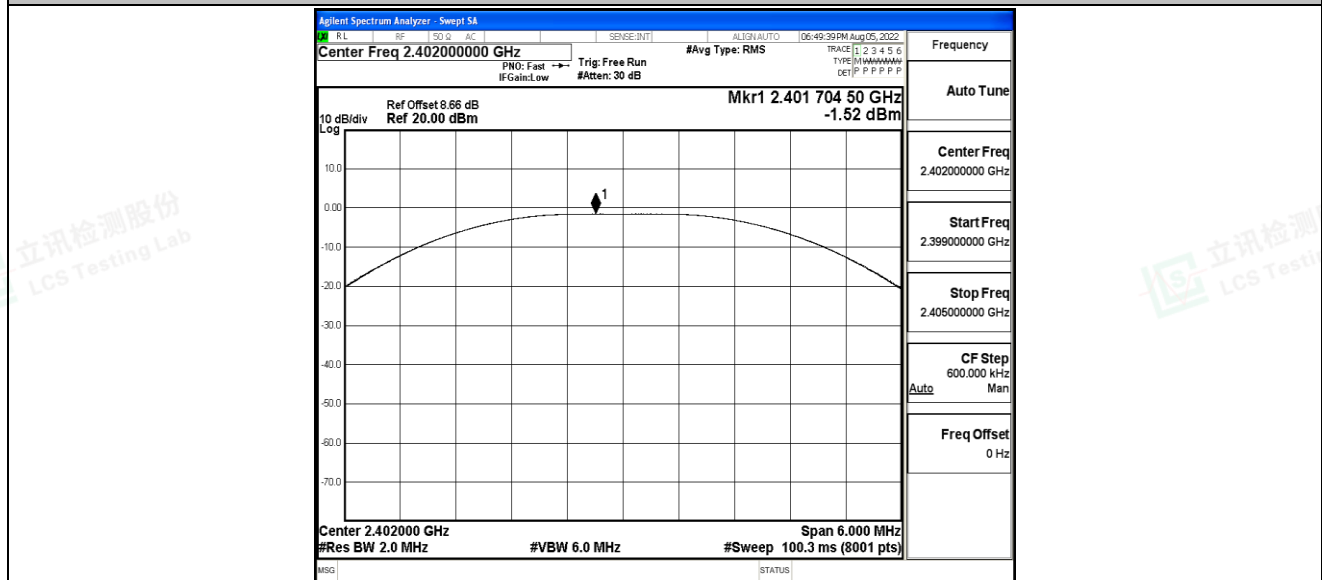
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BLE_2M_Ant_2402



BLE_2M_Ant_2440

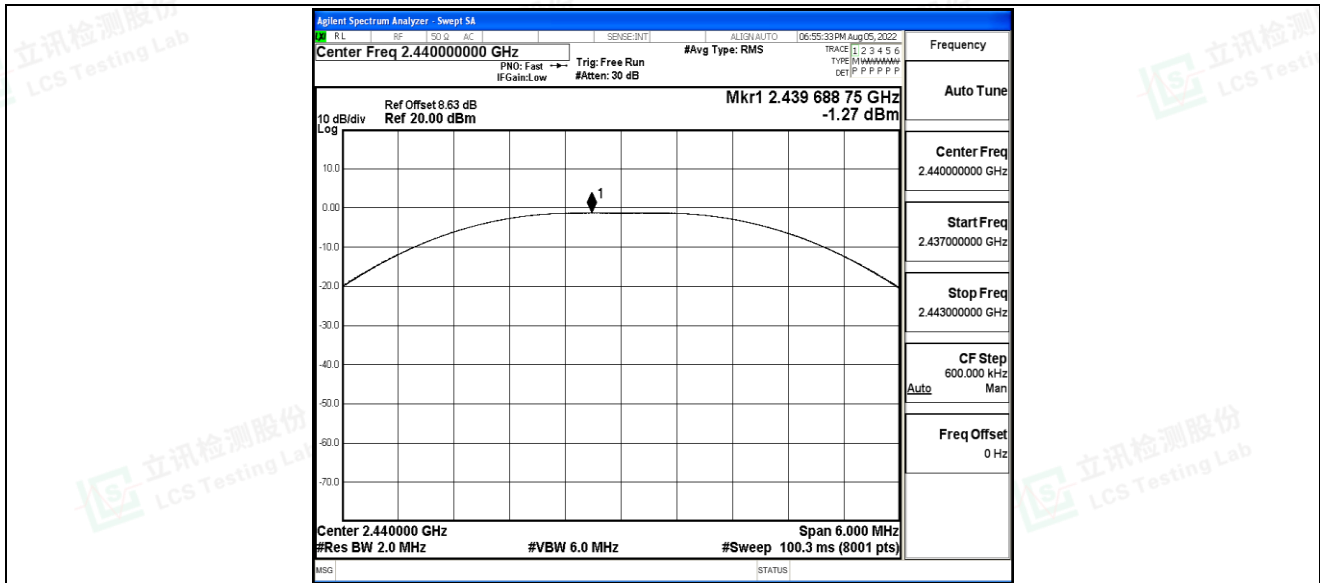


Shenzhen LCS Compliance Testing Laboratory Ltd.

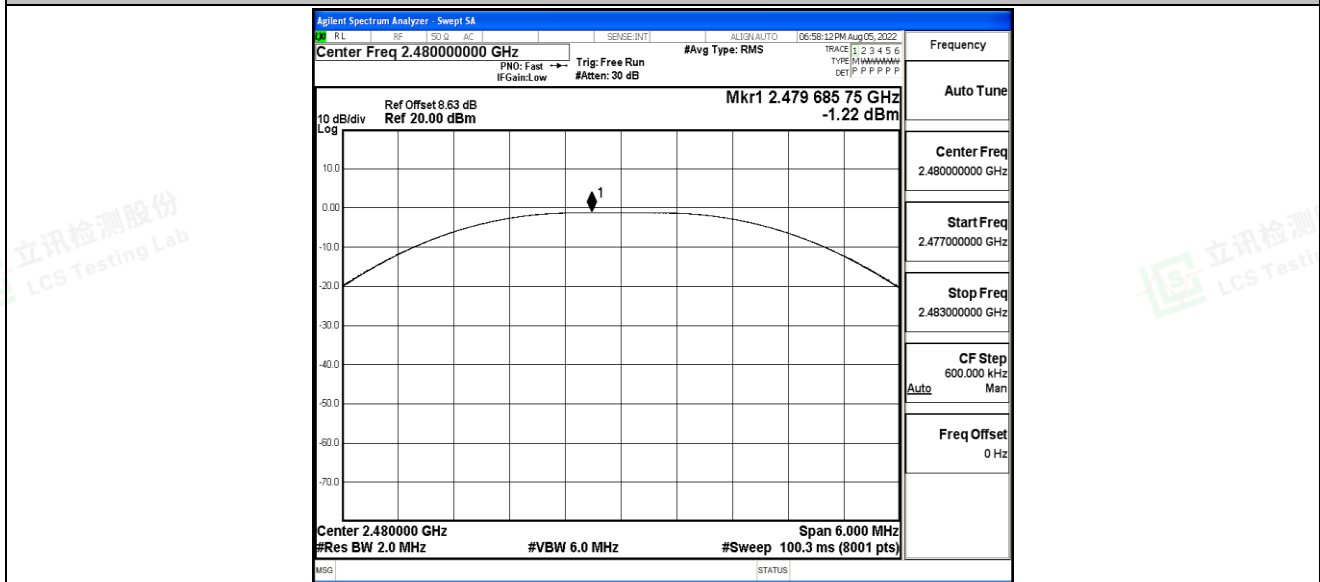
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BLE_2M_Ant_2480



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A.4 Maximum power spectral density

Test Result

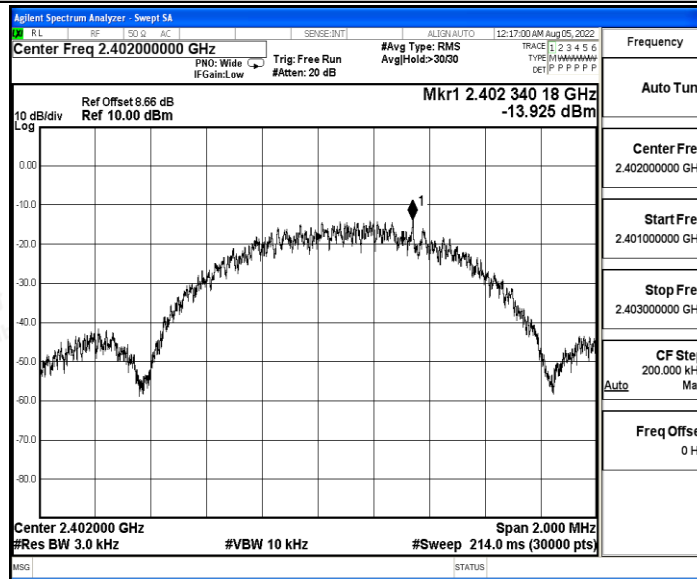
TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant	2402	-13.93	≤8.00	PASS
		2440	-14.72	≤8.00	PASS
		2480	-13.66	≤8.00	PASS
BLE_2M	Ant	2402	-20.24	≤8.00	PASS
		2440	-19.62	≤8.00	PASS
		2480	-20.19	≤8.00	PASS



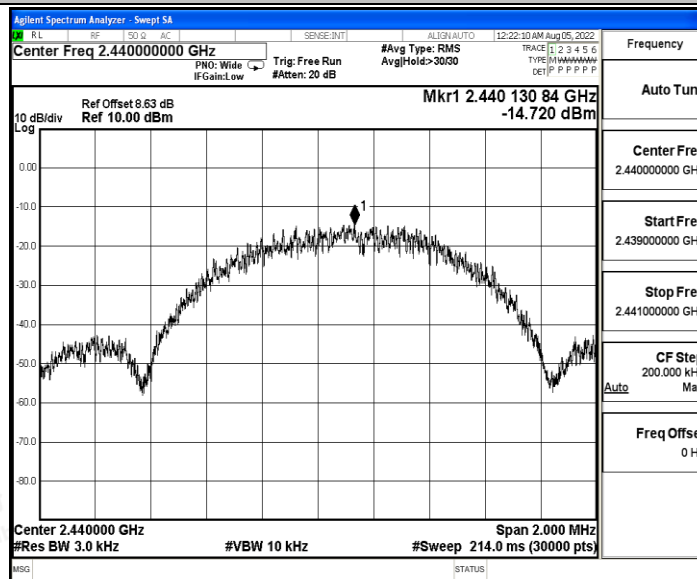


Test Graphs

BLE_1M_Ant_2402

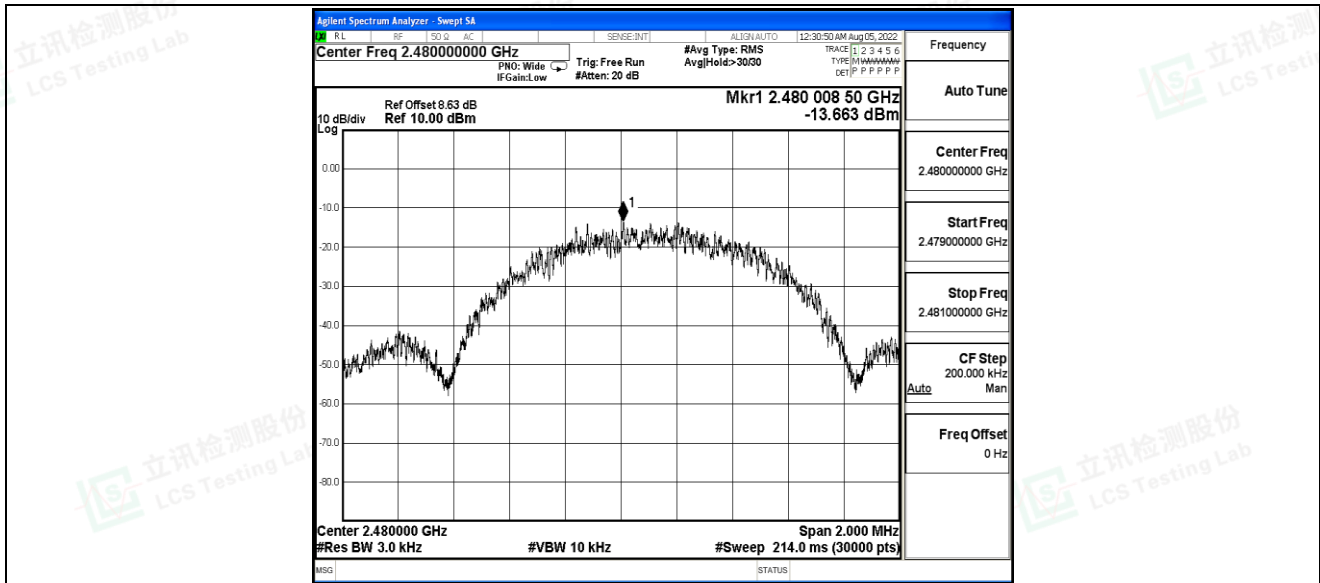


BLE_1M_Ant_2440

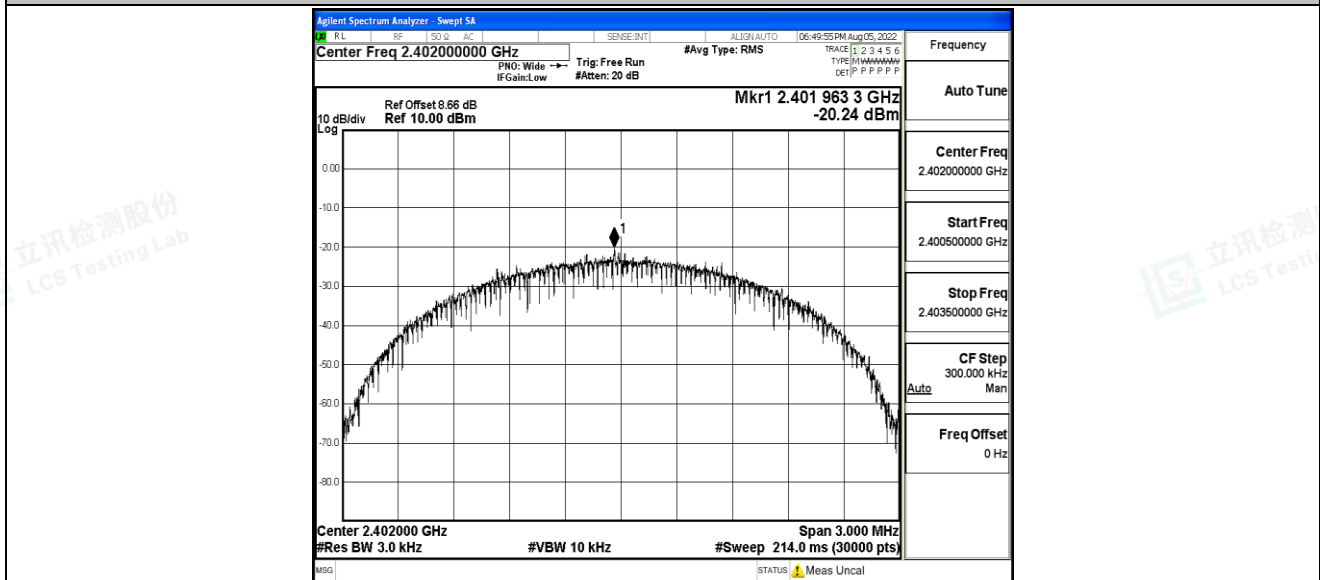


BLE_1M_Ant_2480





BLE_2M_Ant_2402



BLE_2M_Ant_2440

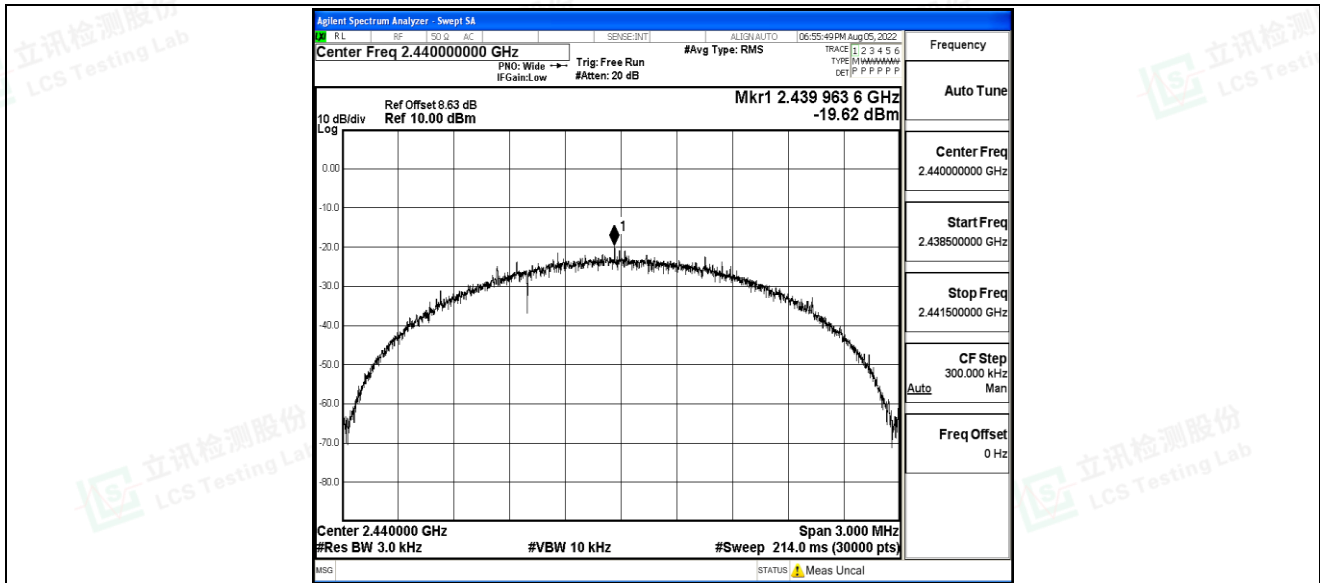


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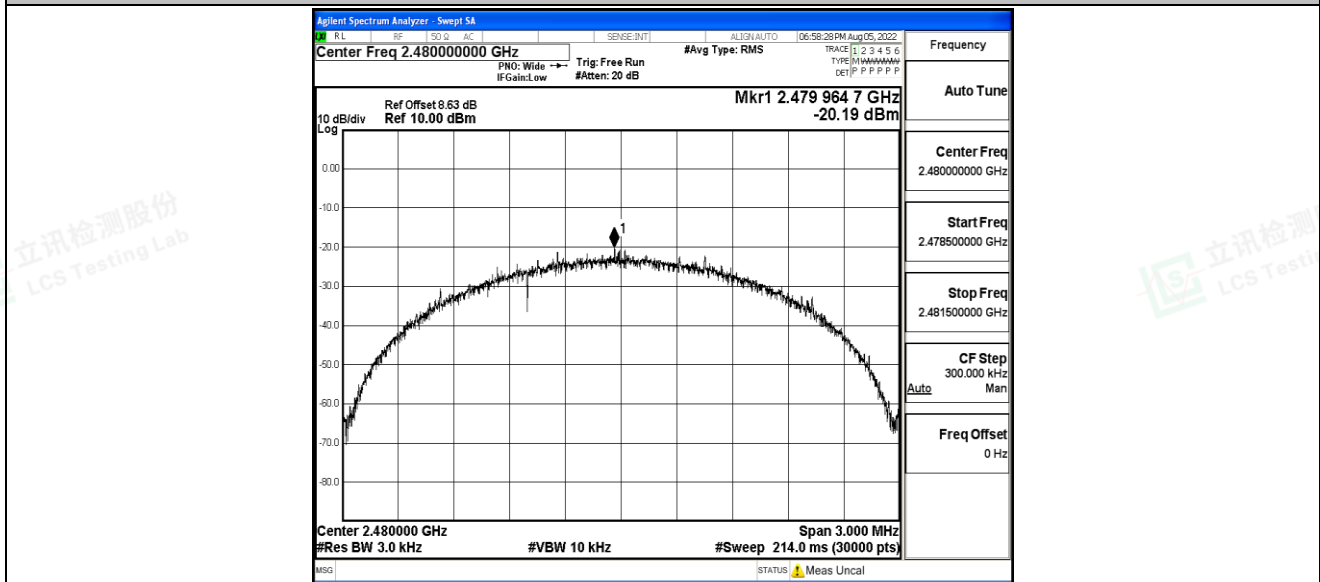
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BLE_2M_Ant_2480



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A.5 Band edge measurements

Test Result

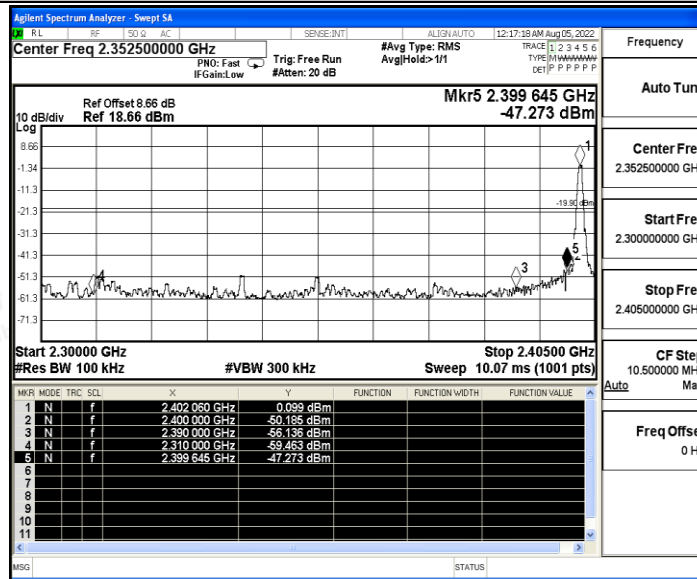
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant	Low	2402	0.10	-47.27	≤ -19.9	PASS
		High	2480	-0.11	-51.22	≤ -20.11	PASS
BLE_2M	Ant	Low	2402	-2.98	-37.19	≤ -22.98	PASS
		High	2480	-2.25	-57.38	≤ -22.25	PASS



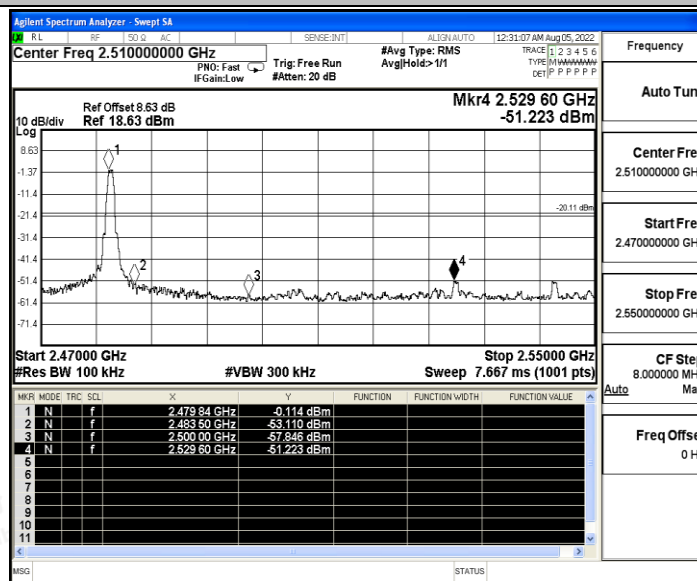


Test Graphs

BLE_1M_Ant_Low_2402



BLE_1M_Ant_High_2480



BLE_2M_Ant_Low_2402





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A.6 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant	2402	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-59.11	≤-19.99	PASS
			1000~26500	0.01	-36.12	≤-19.99	PASS
		2440	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-60.07	≤-20.34	PASS
			1000~26500	-0.34	-38.4	≤-20.34	PASS
		2480	Reference	-0.12	-0.12	---	PASS
			30~1000	-0.12	-59.12	≤-20.12	PASS
			1000~26500	-0.12	-42.83	≤-20.12	PASS
BLE_2M	Ant	2402	Reference	-4.84	-4.84	---	PASS
			30~1000	-4.84	-60.29	≤-24.84	PASS
			1000~26500	-4.84	-44.26	≤-24.84	PASS
		2440	Reference	-5.51	-5.51	---	PASS
			30~1000	-5.51	-59.38	≤-25.51	PASS
			1000~26500	-5.51	-43.1	≤-25.51	PASS
		2480	Reference	-3.33	-3.33	---	PASS
			30~1000	-3.33	-60.6	≤-23.33	PASS
			1000~26500	-3.33	-45.62	≤-23.33	PASS



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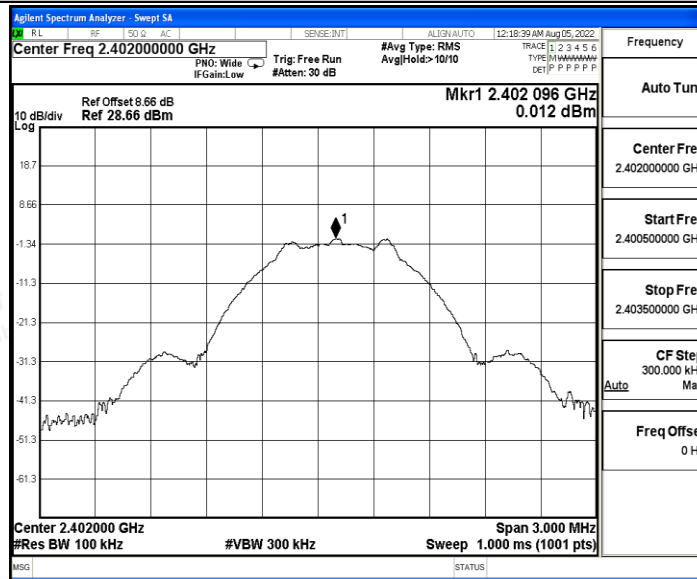
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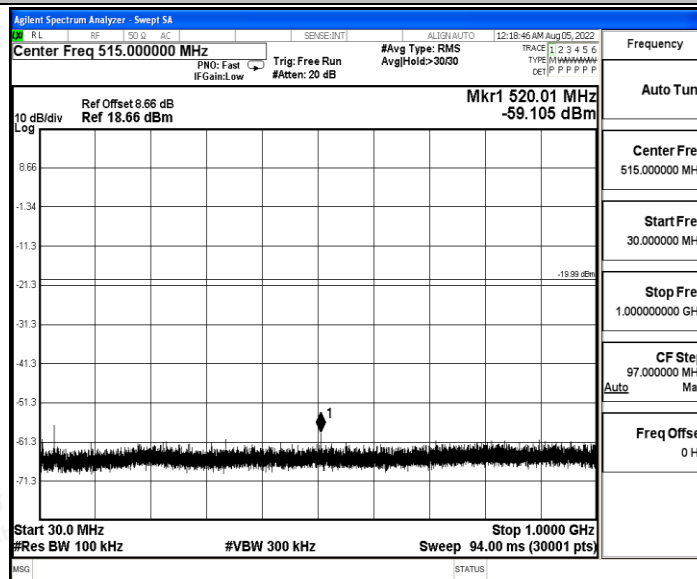


Test Graphs

BLE_1M_Ant_2402_0~Reference



BLE_1M_Ant_2402_30~1000



BLE_1M_Ant_2402_1000~26500

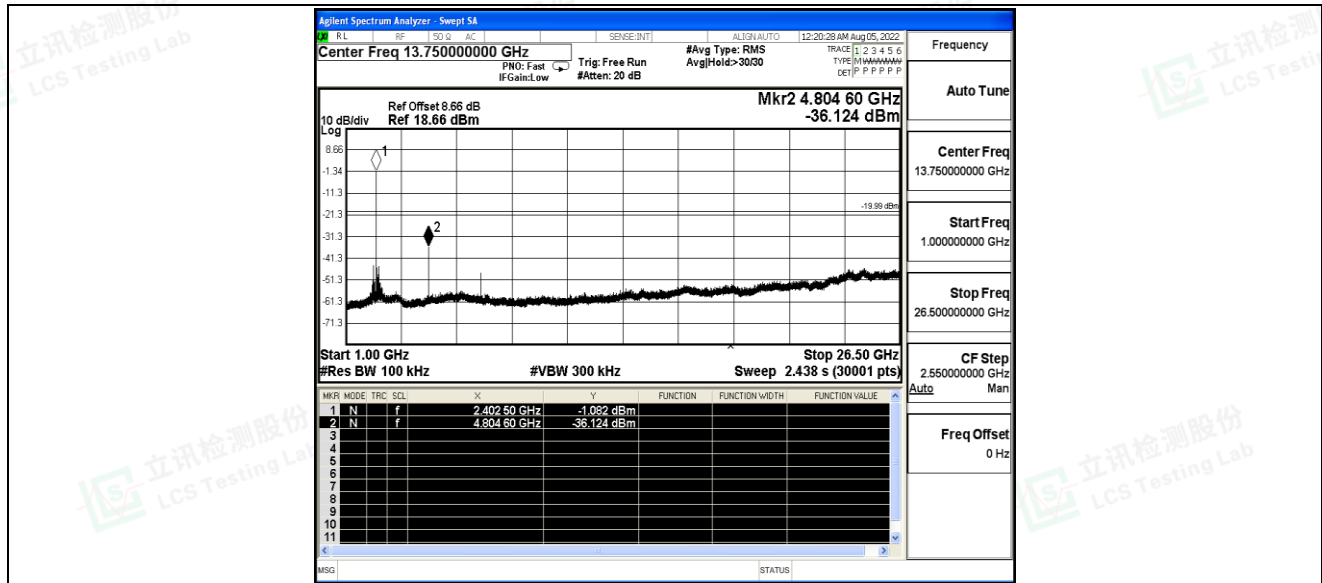


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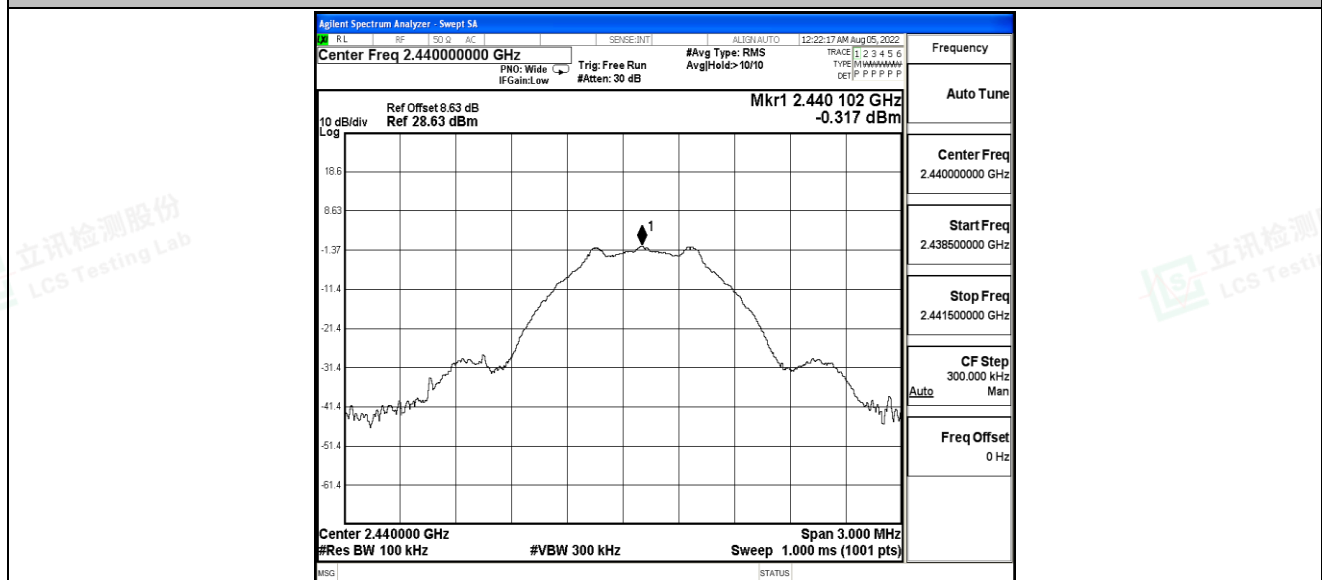
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BLE_1M_Ant_2440_0-Reference



BLE_1M_Ant_2440_30~1000

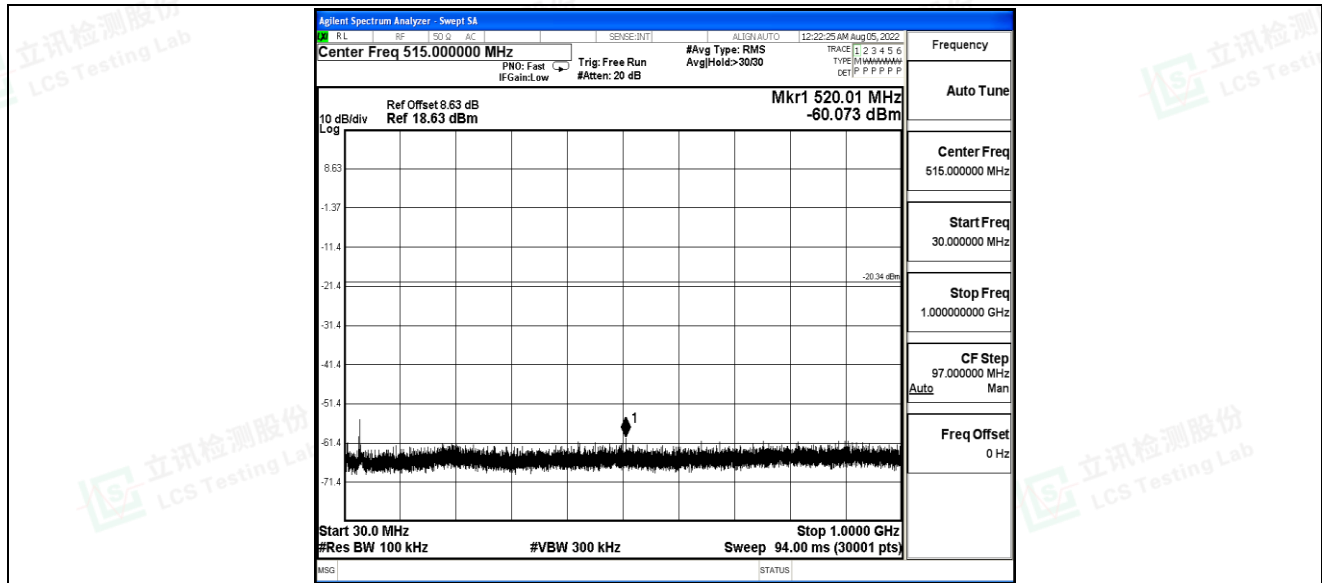


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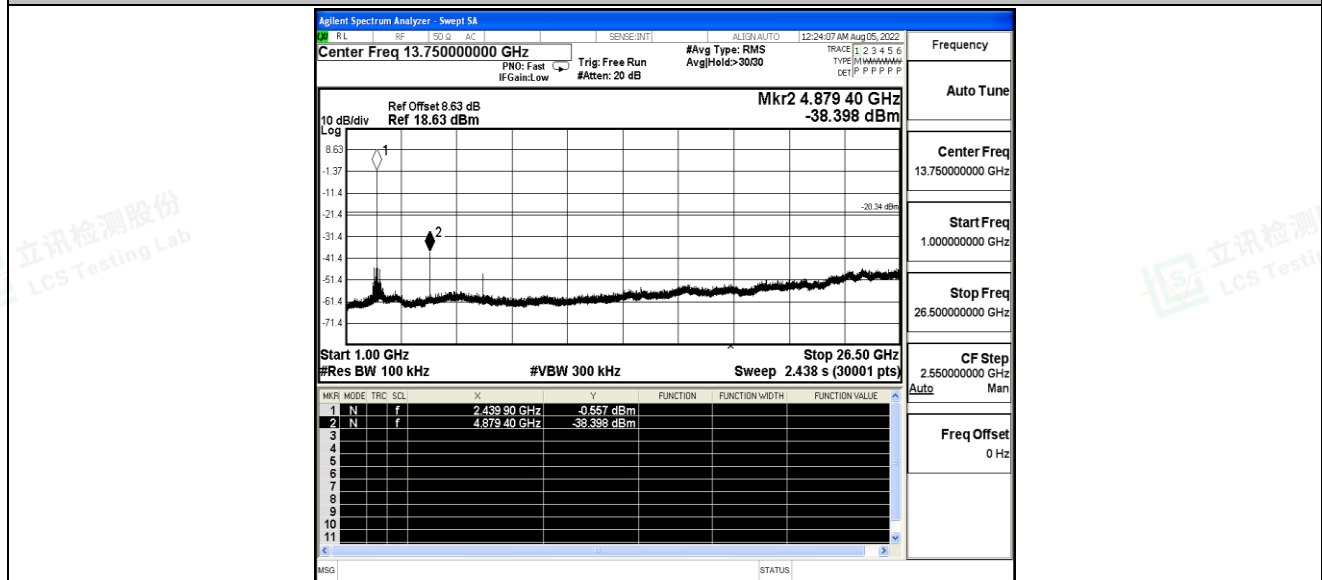
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BLE_1M_Ant_2440_1000~26500



BLE_1M_Ant_2480_0-Reference

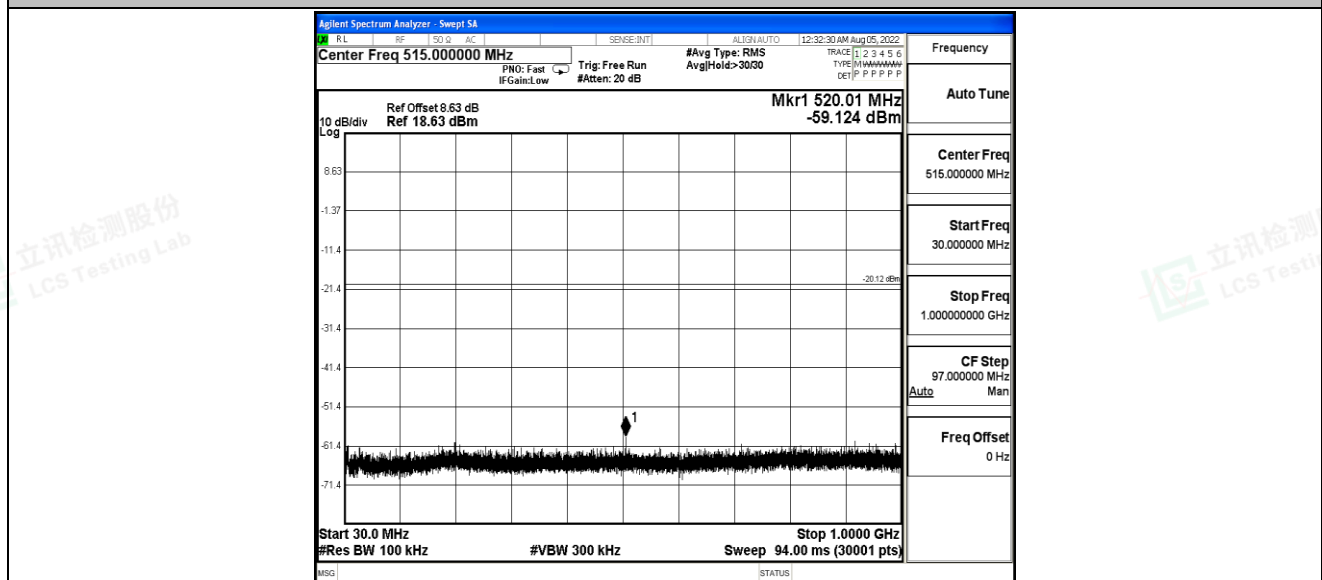
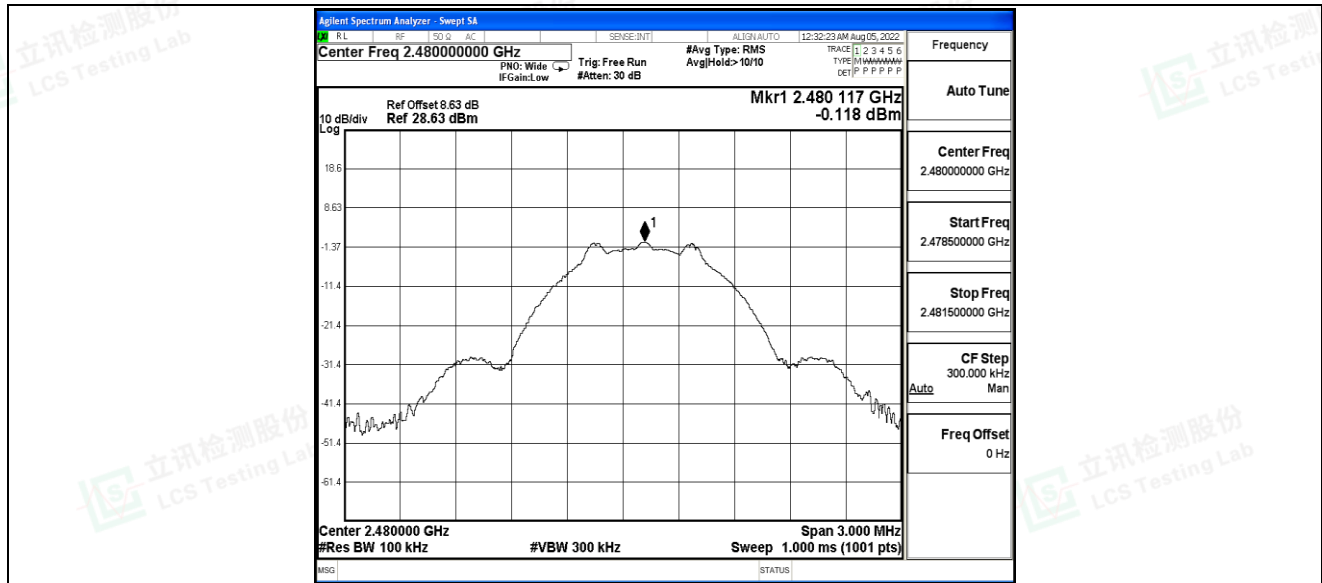


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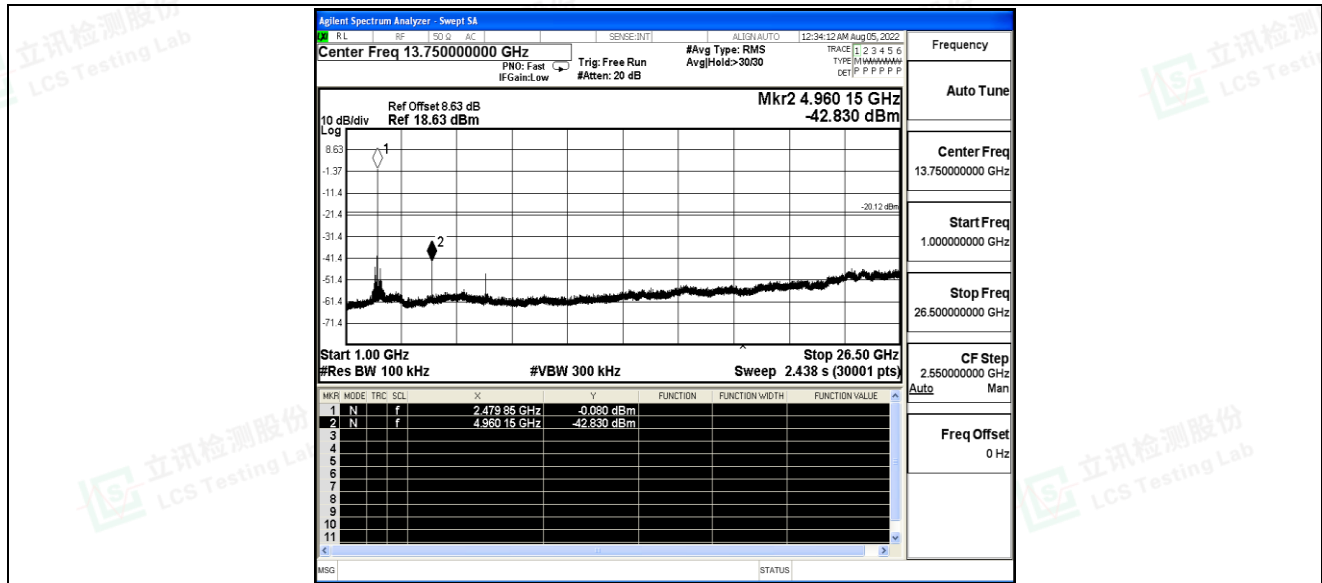


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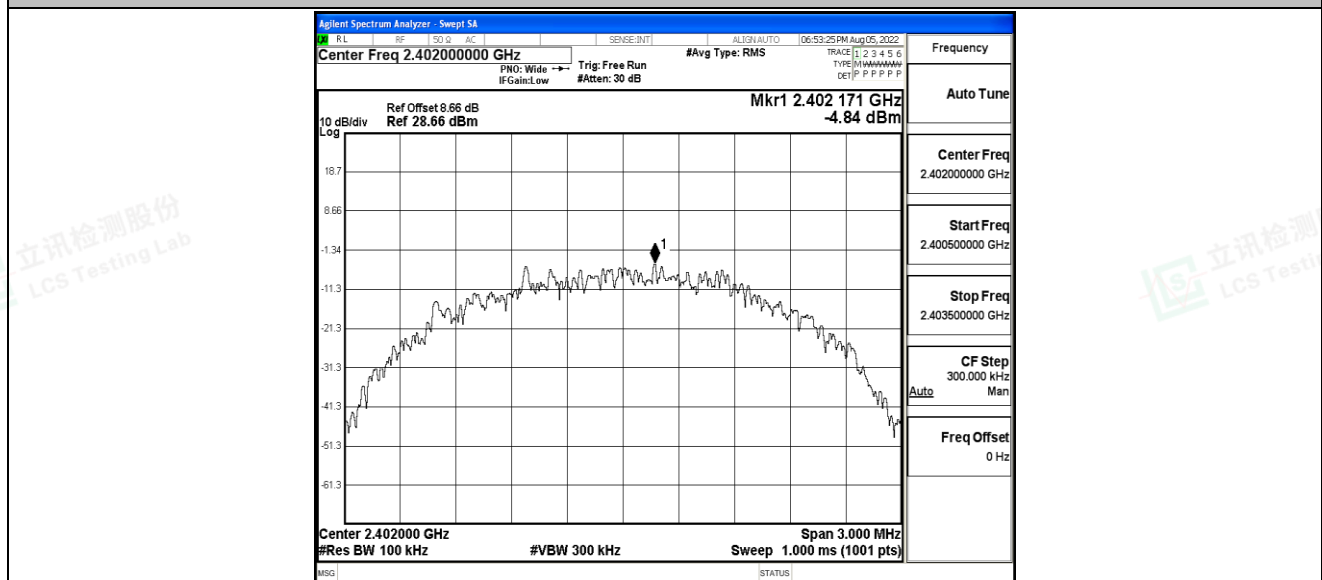
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BLE_2M_Ant_2402_0-Reference



BLE_2M_Ant_2402_30-1000

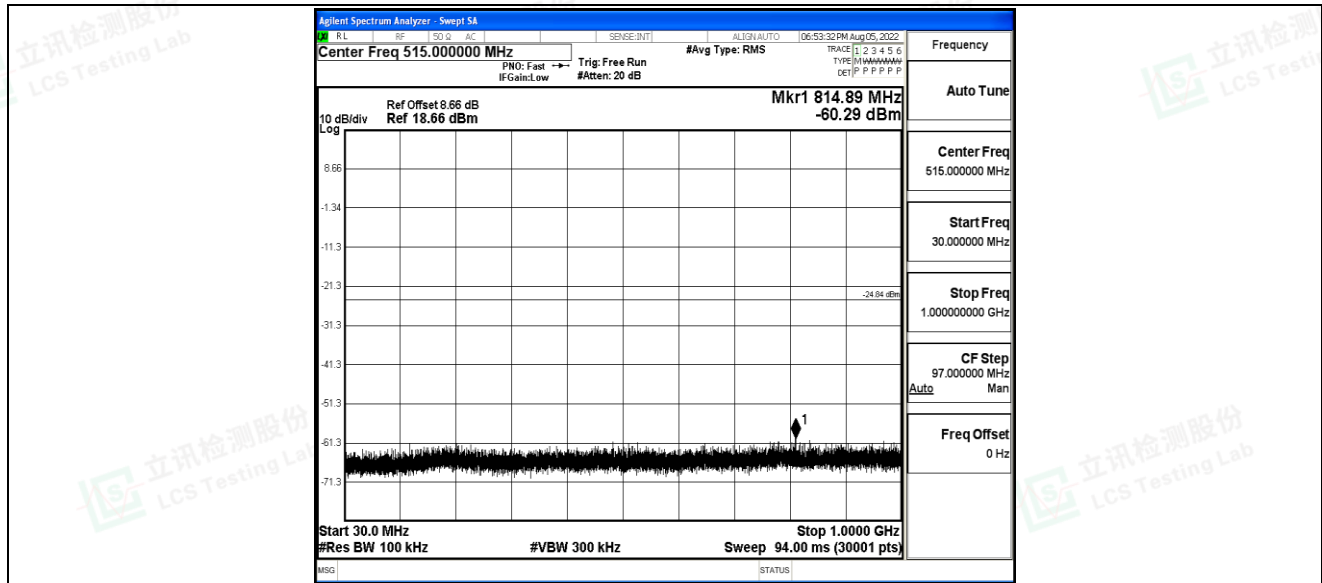


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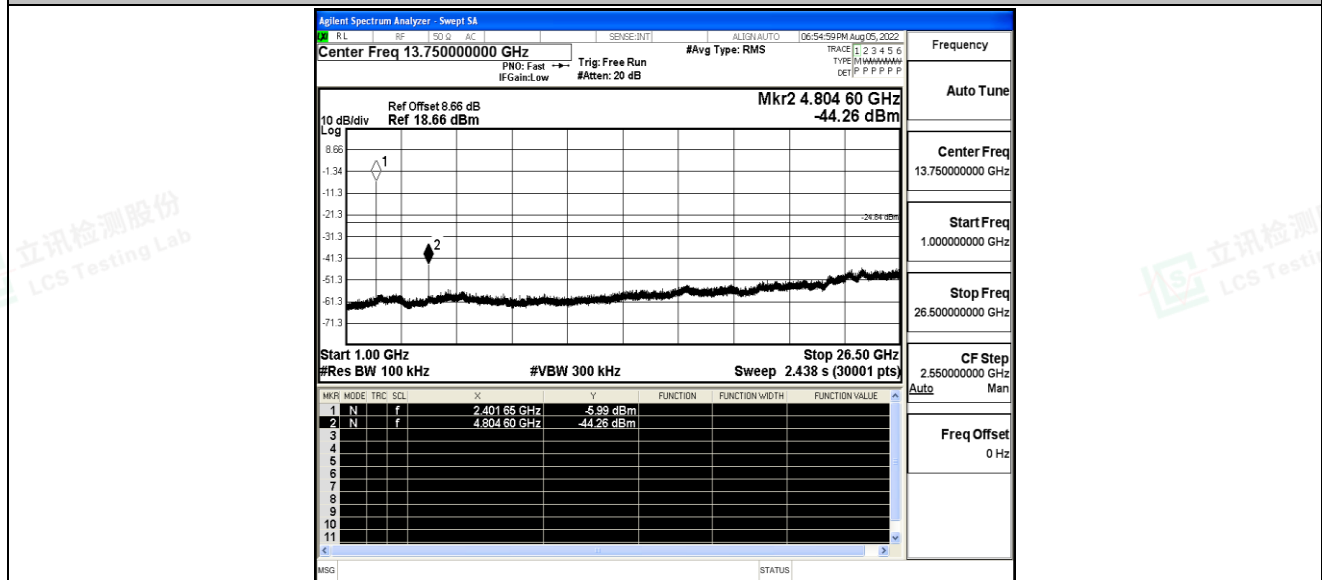
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BLE_2M_Ant_2402_1000~26500



BLE_2M_Ant_2440_0-Reference

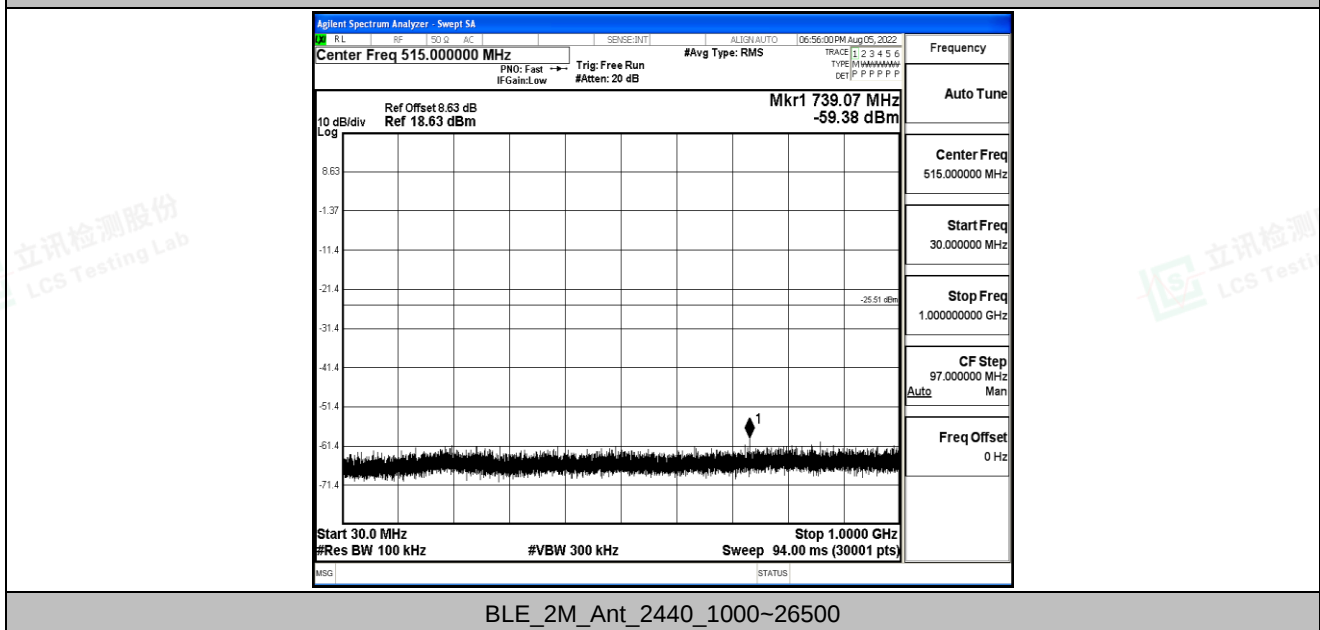
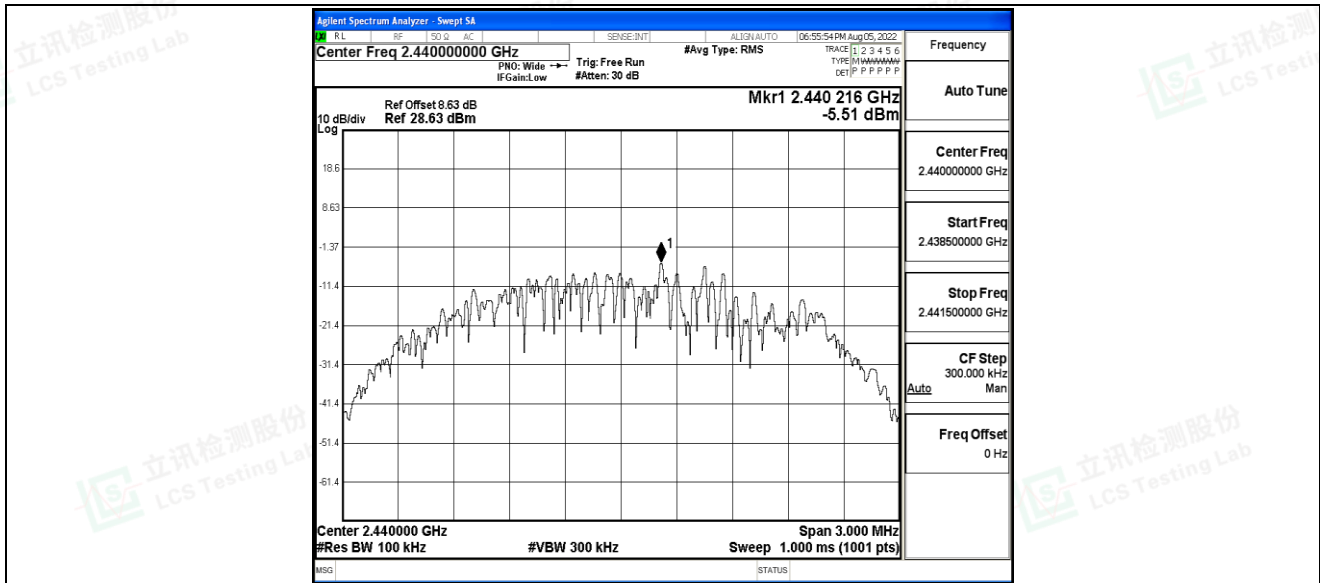


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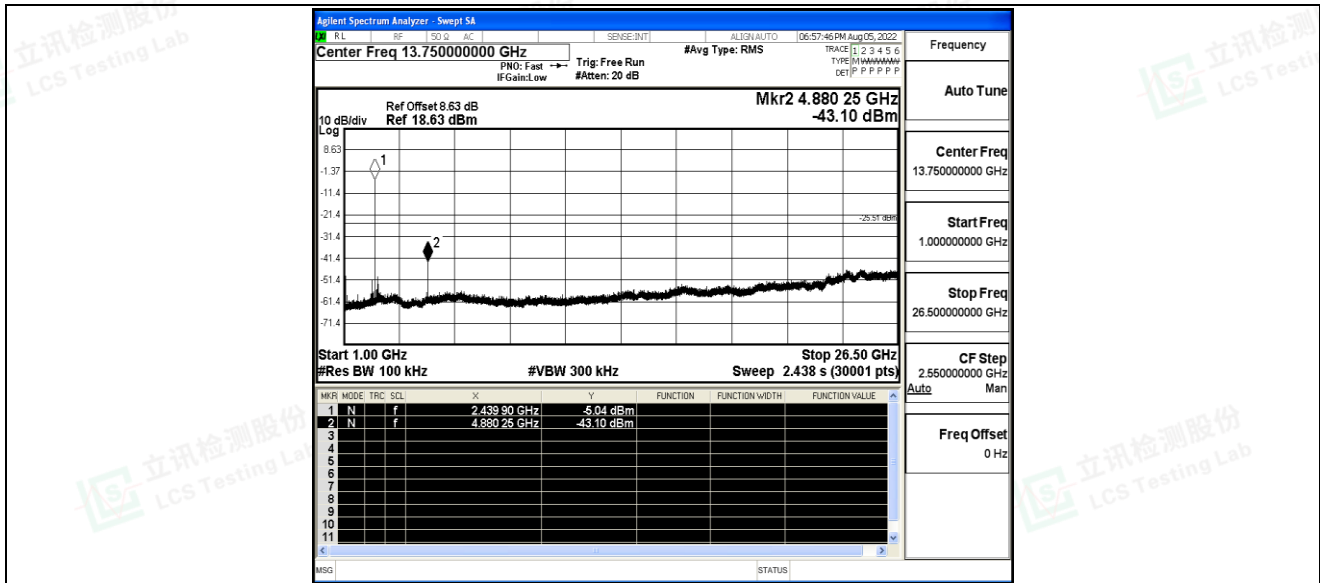


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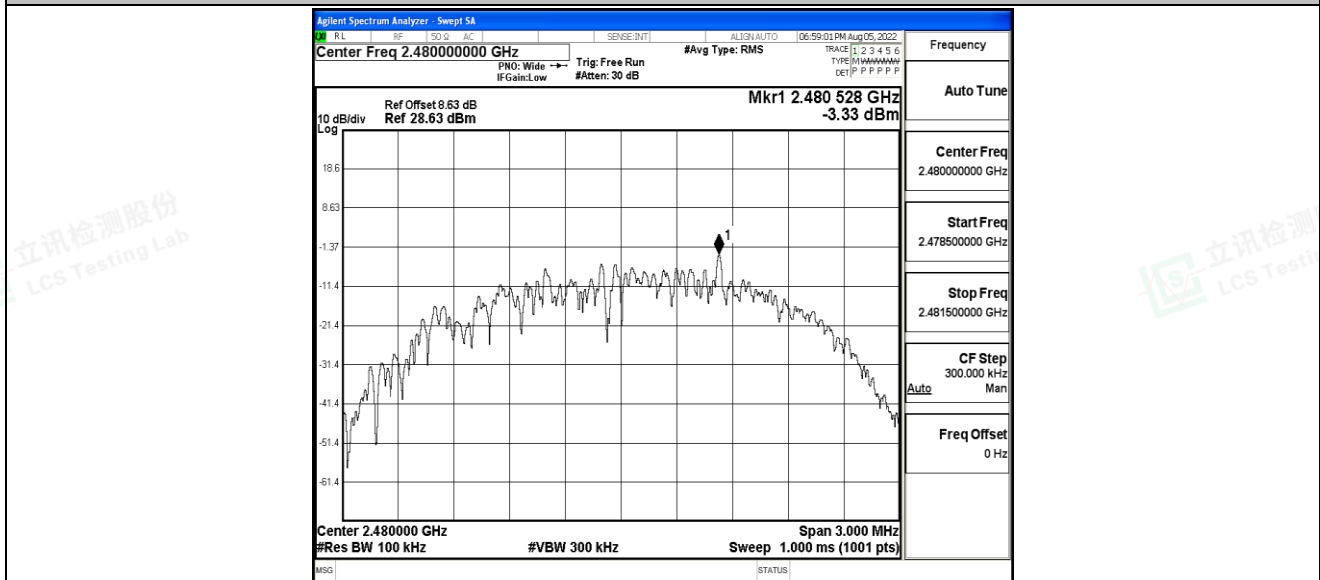
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BLE_2M_Ant_2480_0~Reference



BLE_2M_Ant_2480_30~1000

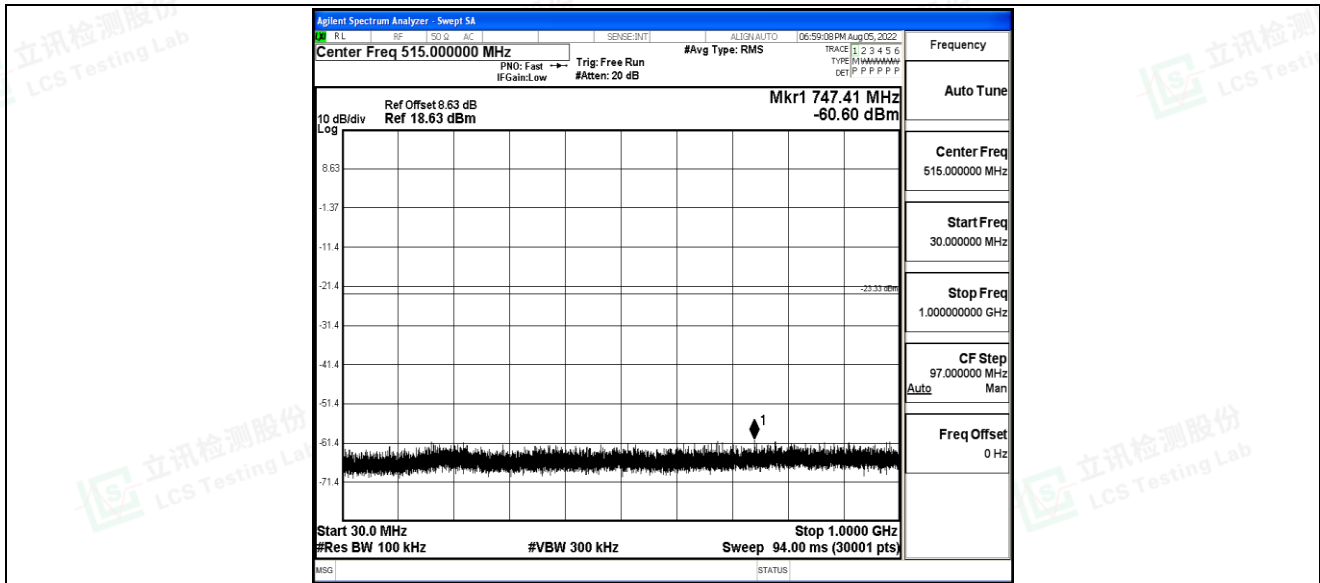


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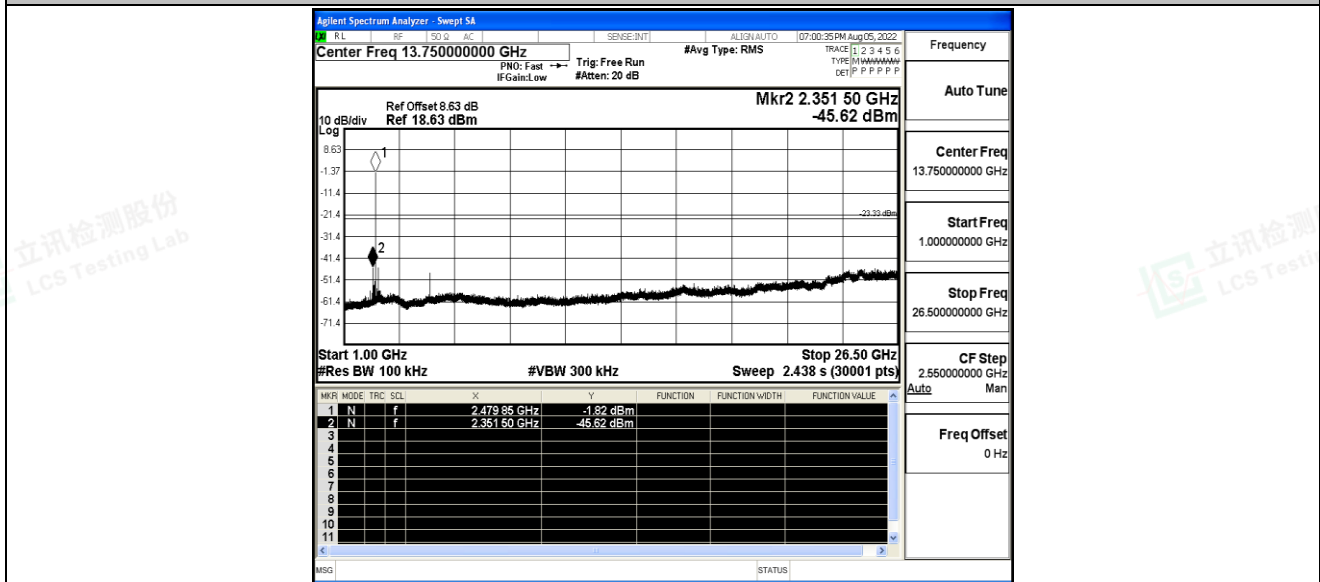
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BLE_2M_Ant_2480_1000~26500



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A.7 Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	1/T	Limit	Verdict
BLE_1M	Ant	2402	2.11	2.22	0.9505	95.05	0.22	0.47	---	---
		2440	2.11	2.22	0.9505	95.05	0.22	0.47	---	---
		2480	2.11	2.22	0.9505	95.05	0.22	0.47	---	---
BLE_2M	Ant	2402	1.06	1.18	0.8983	89.83	0.47	0.94	---	---
		2440	1.06	1.18	0.8983	89.83	0.47	0.94	---	---
		2480	1.06	1.18	0.8983	89.83	0.47	0.94	---	---

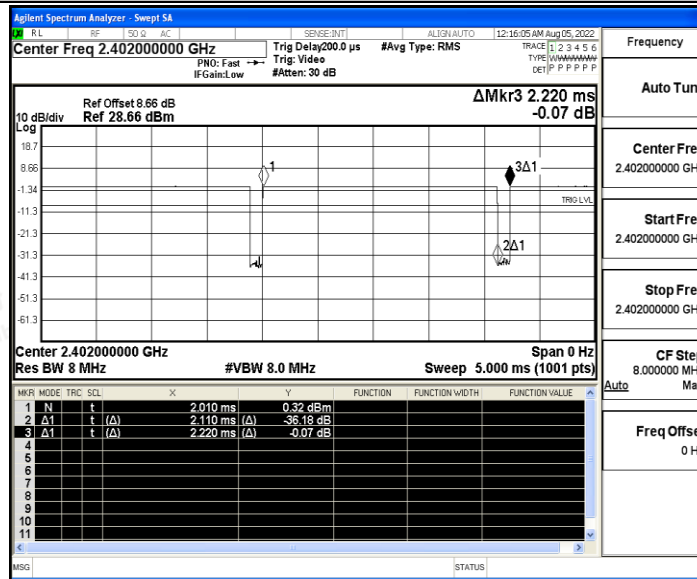


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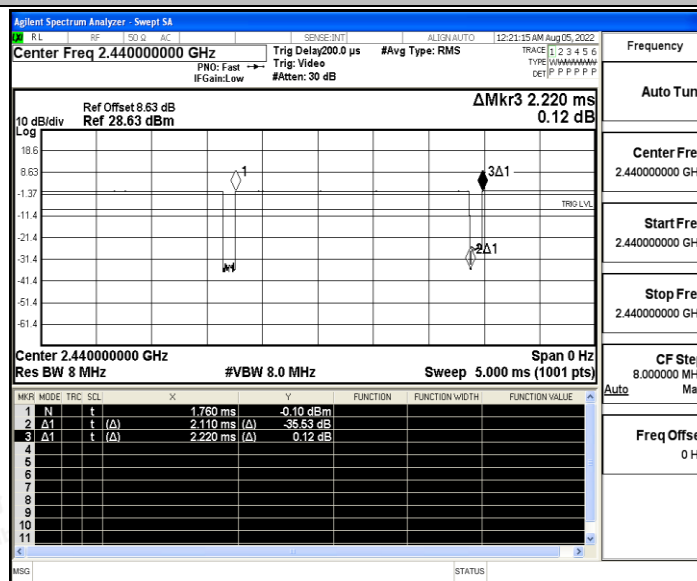


Test Graphs

BLE_1M_Ant_2402



BLE_1M_Ant_2440



BLE_1M_Ant_2480

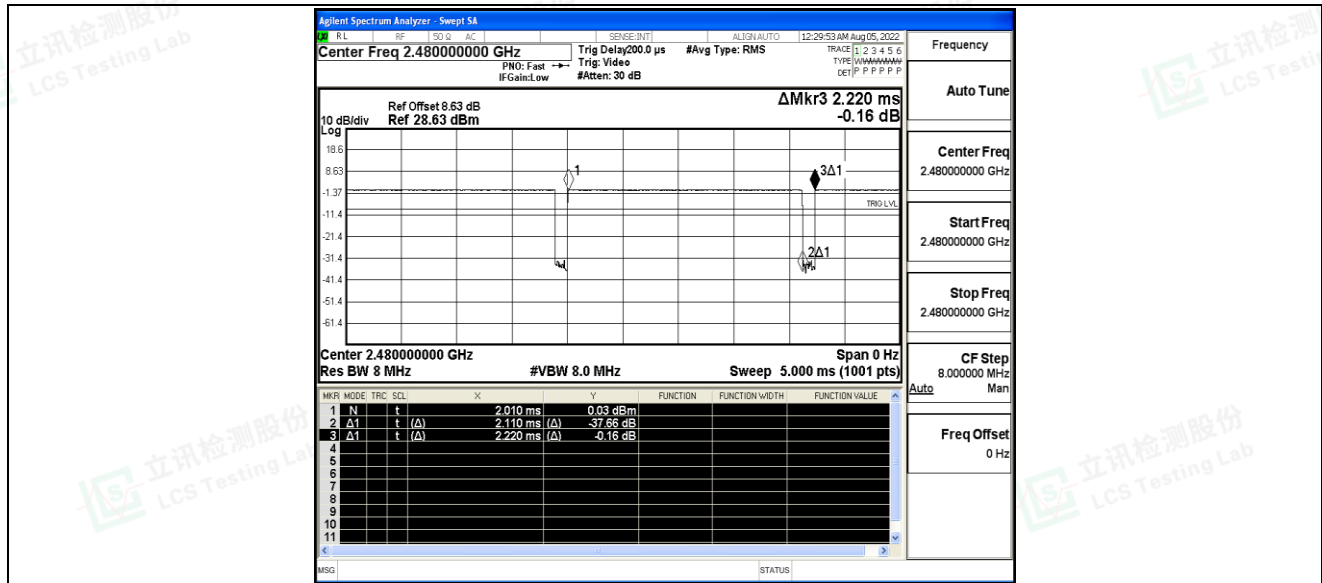


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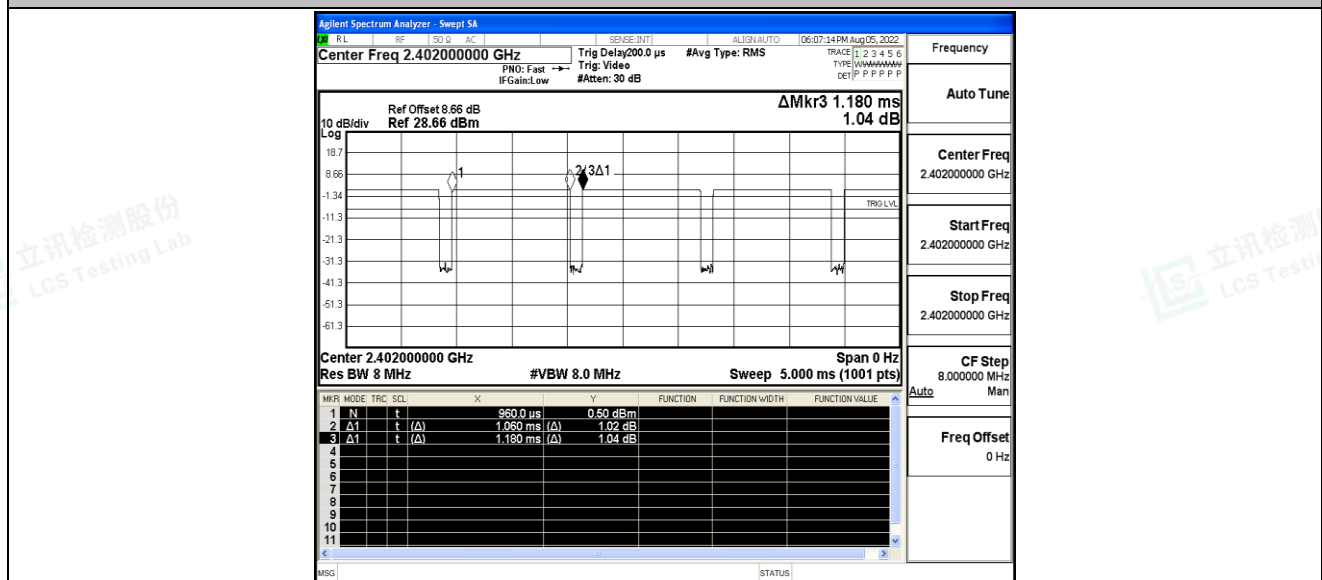
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BLE_2M_Ant_2402



BLE_2M_Ant_2440

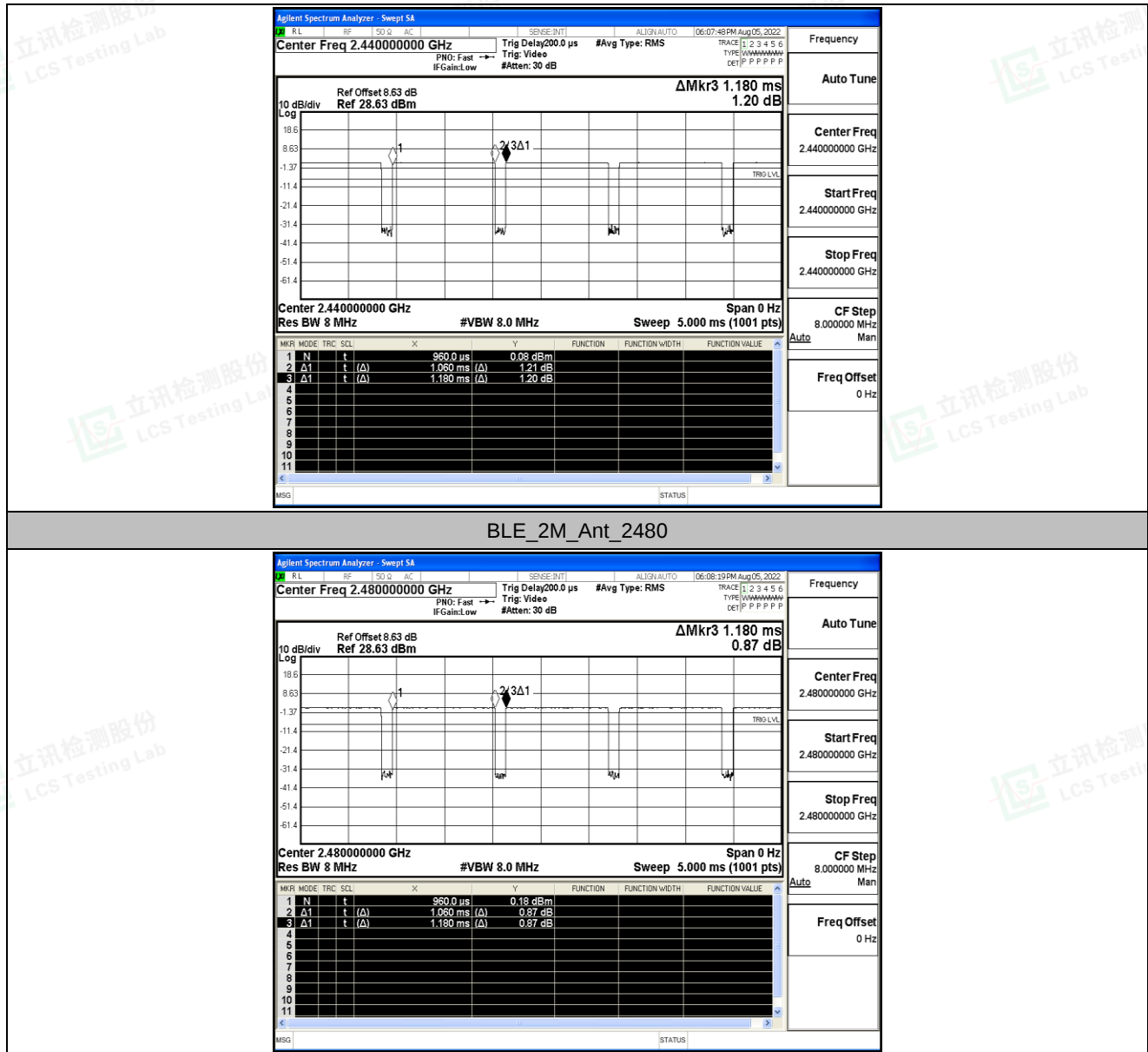


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A.8 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
BLE_1M	Ant	Low	2402	AV	2310.000	-52.43	42.77	≤54	PASS
				AV	2338.115	-48.77	46.43	≤54	PASS
				AV	2390.000	-56.07	39.13	≤54	PASS
				Peak	2310.000	-45.45	49.75	≤74	PASS
				Peak	2389.775	-37.19	58.01	≤74	PASS
				Peak	2390.000	-38.73	56.47	≤74	PASS
		High	2480	AV	2483.500	-51.33	43.87	≤54	PASS
				AV	2483.520	-51.33	43.87	≤54	PASS
				AV	2500.000	-56.6	38.60	≤54	PASS
				Peak	2483.500	-35.6	59.60	≤74	PASS
				Peak	2483.600	-33.08	62.12	≤74	PASS
				Peak	2500.000	-42.32	52.88	≤74	PASS
BLE_2M	Ant	Low	2402	AV	2310.000	-57.68	37.52	≤54	PASS
				AV	2385.785	-57.06	38.14	≤54	PASS
				AV	2390.000	-57.19	38.01	≤54	PASS
				Peak	2310.000	-52.29	42.91	≤74	PASS
				Peak	2388.935	-47.86	47.34	≤74	PASS
				Peak	2390.000	-49.8	45.40	≤74	PASS
		High	2480	AV	2483.500	-50.72	44.48	≤54	PASS
				AV	2483.520	-50.72	44.48	≤54	PASS
				AV	2500.000	-56.75	38.45	≤54	PASS
				Peak	2483.500	-47.28	47.92	≤74	PASS
				Peak	2483.600	-45.64	49.56	≤74	PASS
				Peak	2500.000	-48.21	46.99	≤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.

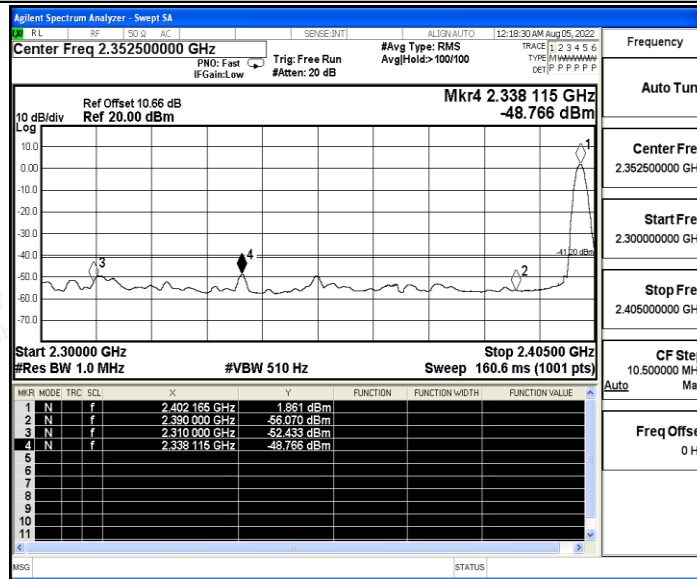


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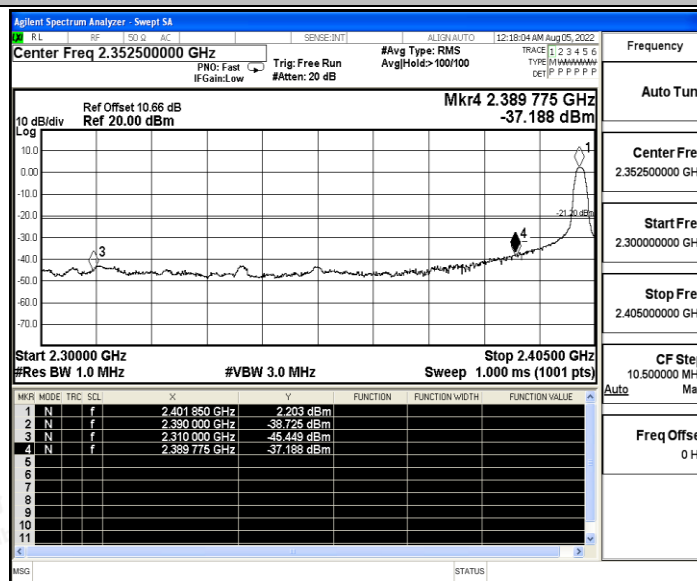


Test Graphs

BLE_1M_Ant_Low_2402_AV



BLE_1M_Ant_Low_2402_Peak



BLE_1M_Ant_High_2480_AV

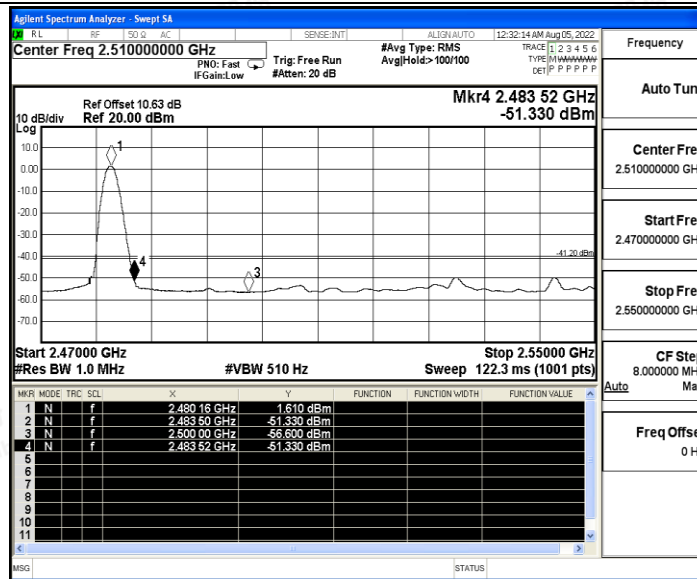


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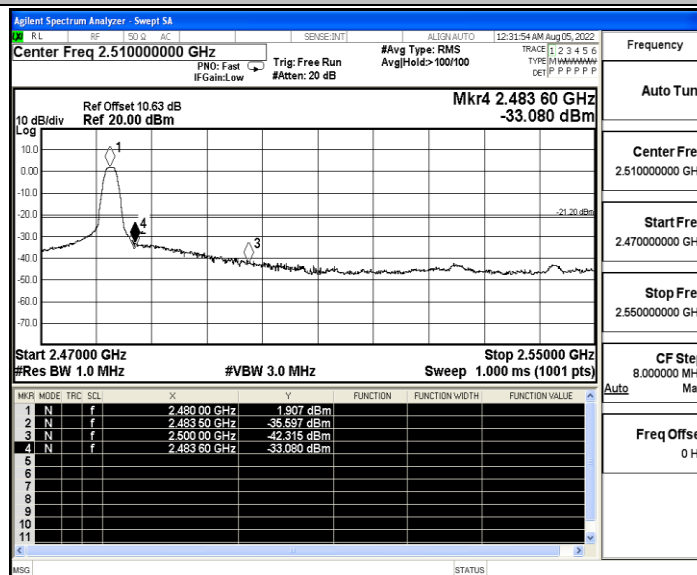
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BLE_1M_Ant_High_2480_Peak



BLE_2M_Ant_Low_2402_AV

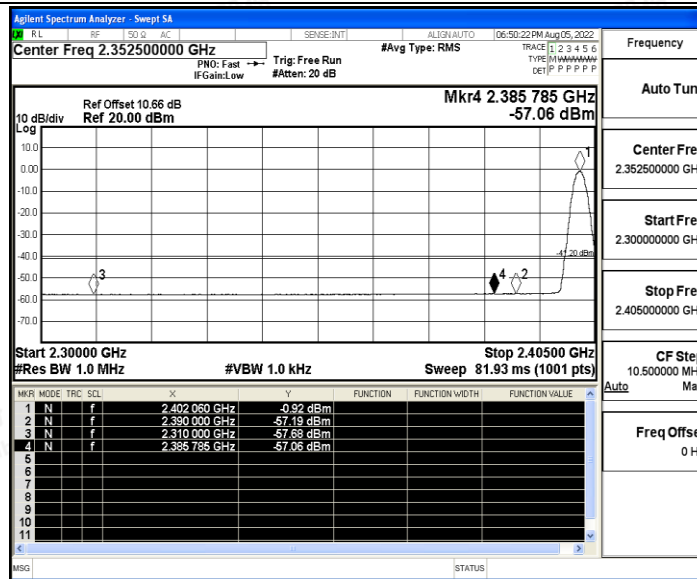


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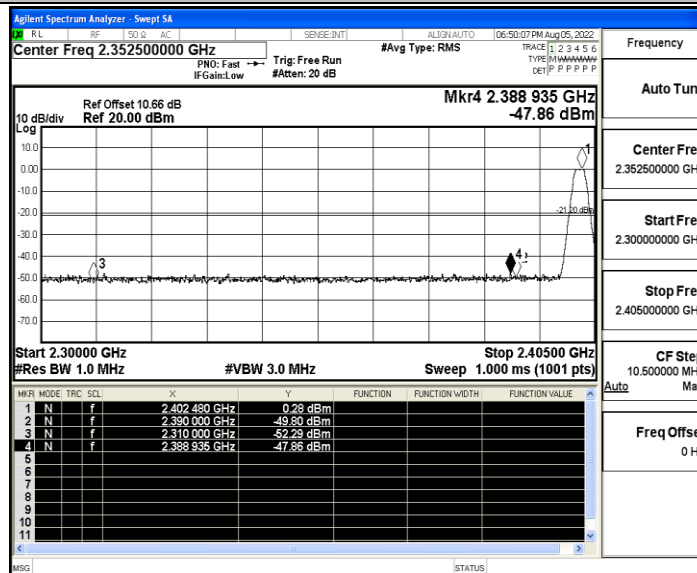
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BLE_2M_Ant_Low_2402_Peak



BLE_2M_Ant_High_2480_AV

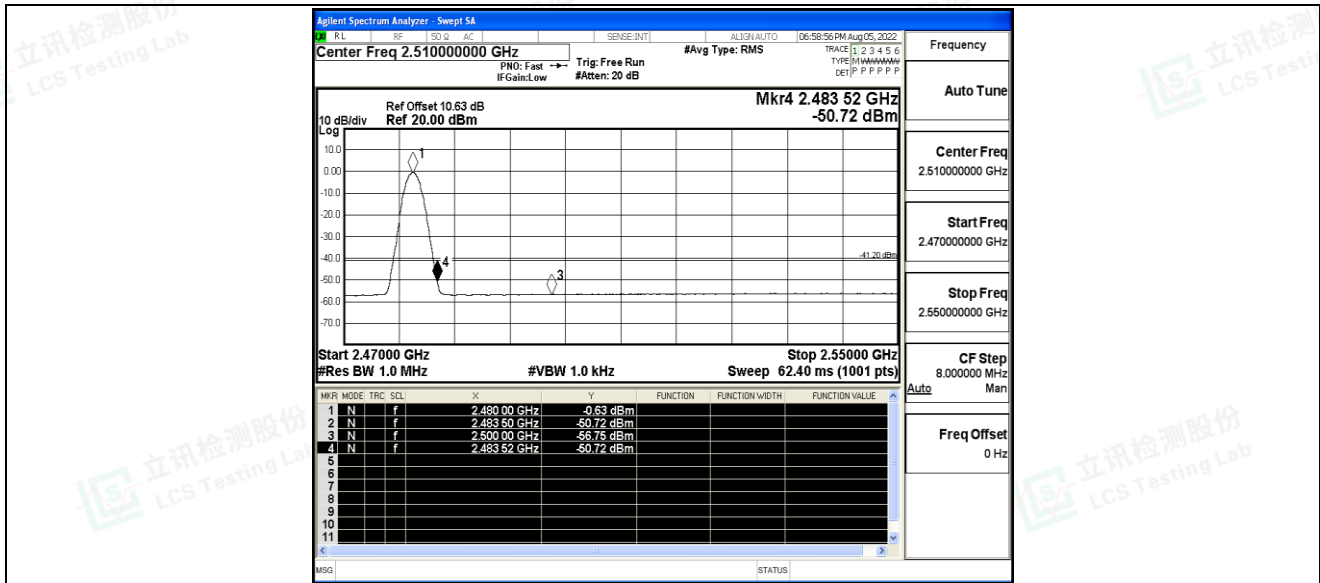


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BLE_2M_Ant_High_2480_Peak

