



Appendix Test Data for BLE (Conducted Measurement)

Product Name: Bluetooth earbuds

Trade Mark: /

Test Model: BH26HT08B

FCC ID: RDR-HT08BR

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

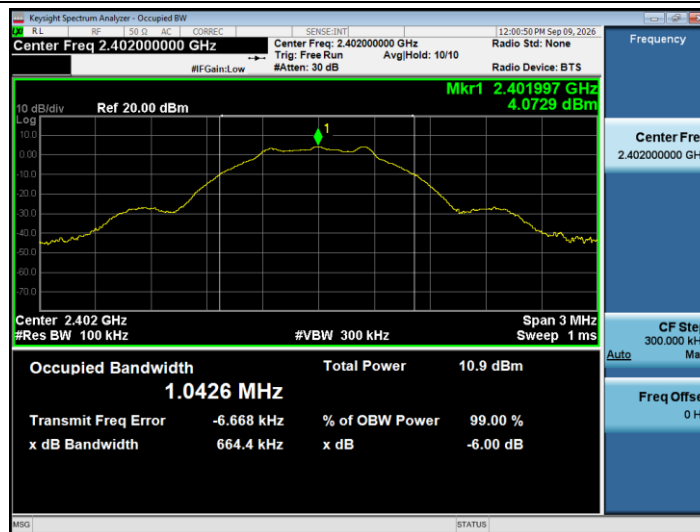
Test Result

Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	0.664	≥0.500	PASS
	Ant1	2440	0.667	≥0.500	PASS
	Ant1	2480	0.664	≥0.500	PASS
BLE_2M	Ant1	2402	1.388	≥0.500	PASS
	Ant1	2440	1.387	≥0.500	PASS
	Ant1	2480	1.389	≥0.500	PASS

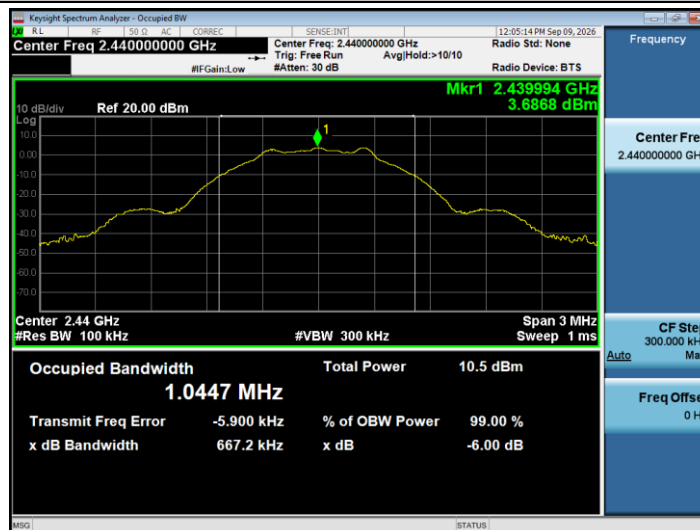




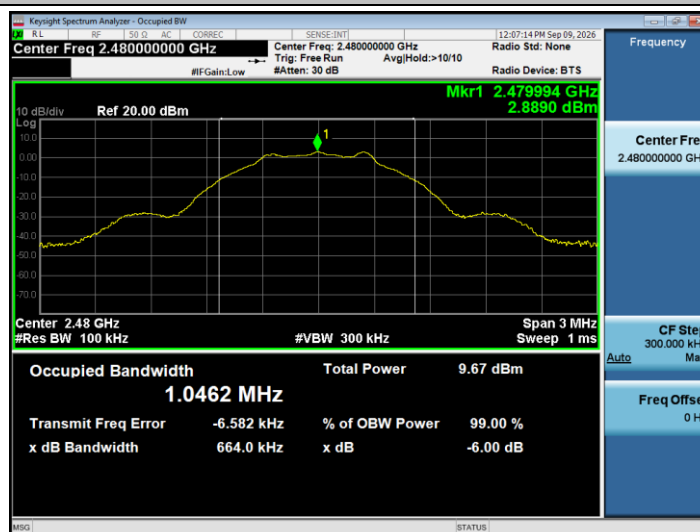
Test Graphs



BLE_1M_Ant1_2402

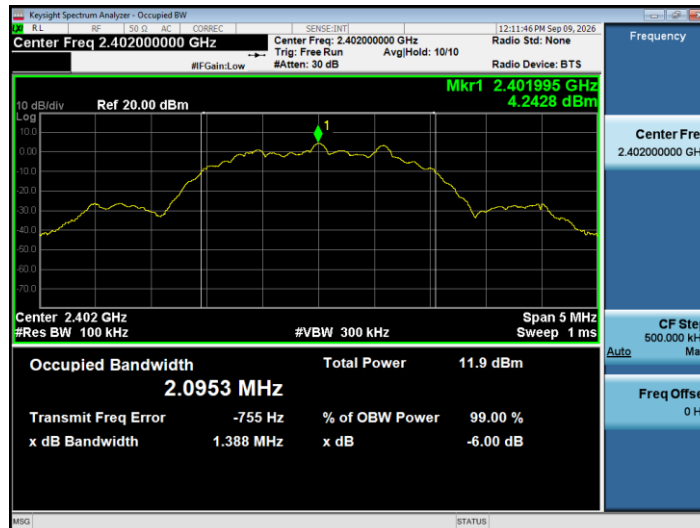


BLE_1M_Ant1_2440

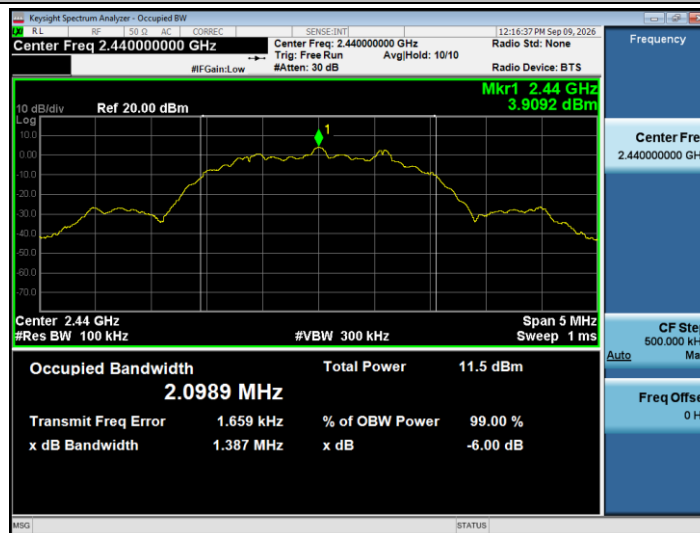


BLE_1M_Ant1_2480

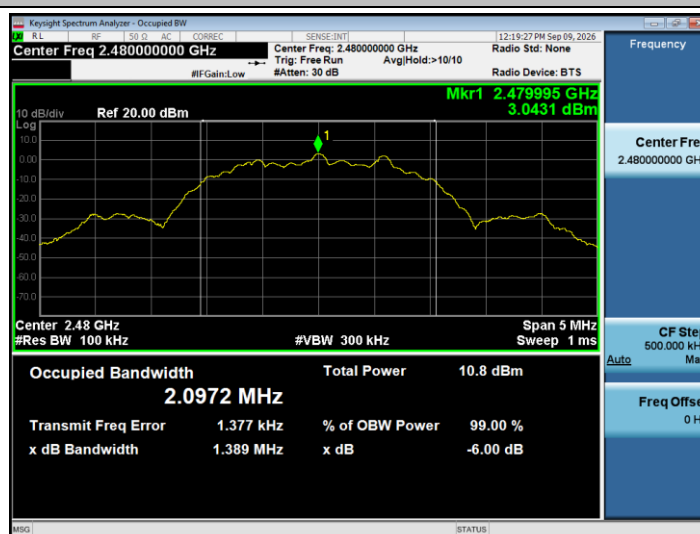




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix B: Occupied Channel Bandwidth

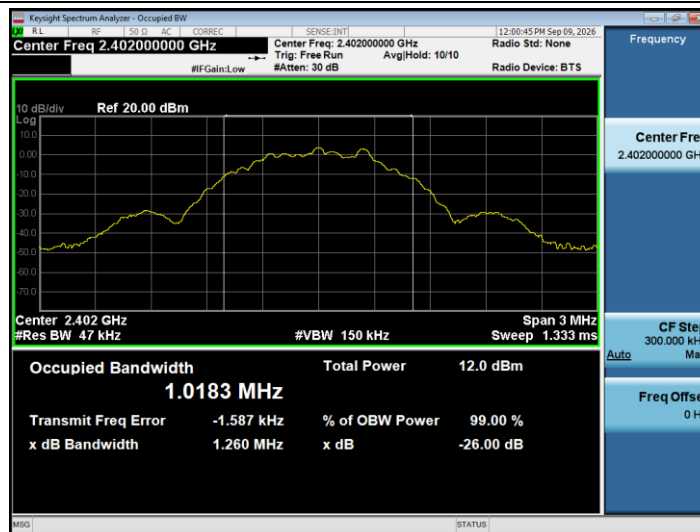
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	-26dB EBW [MHz]	Limit [MHz]	Verdict
BLE_1M	Ant1	2402	1.018	1.260	---	---
	Ant1	2440	1.019	1.262	---	---
	Ant1	2480	1.022	1.265	---	---
BLE_2M	Ant1	2402	2.091	2.413	---	---
	Ant1	2440	2.091	2.407	---	---
	Ant1	2480	2.093	2.413	---	---





Test Graphs



BLE_1M_Ant1_2402

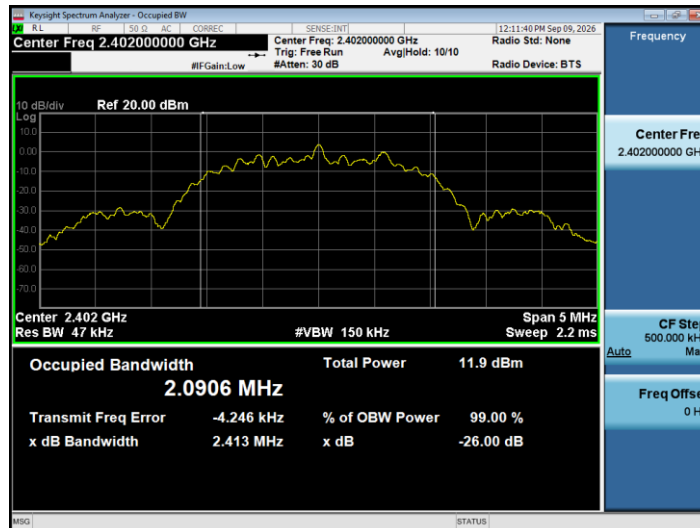


BLE_1M_Ant1_2440

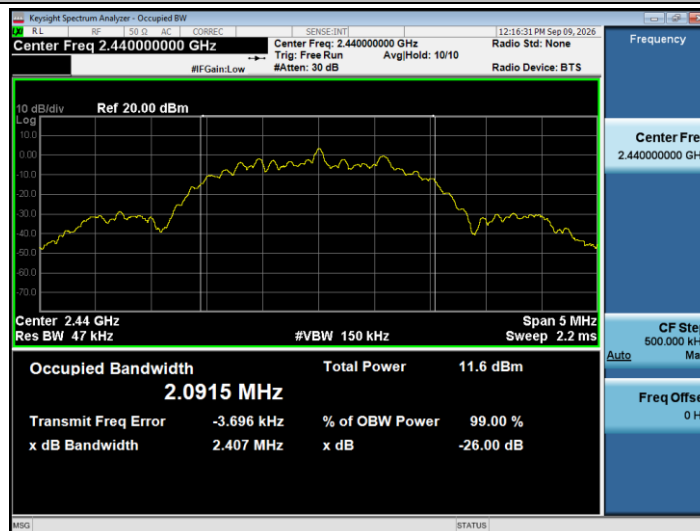


BLE_1M_Ant1_2480

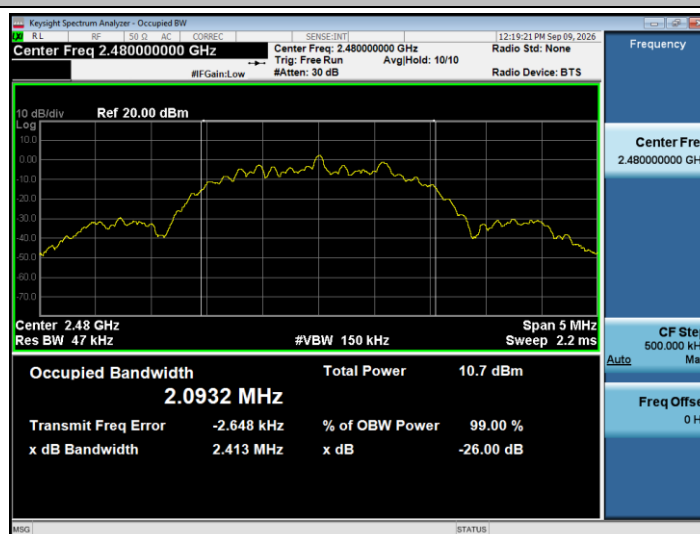




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix C: Maximum peak conducted output power

Test Result Peak

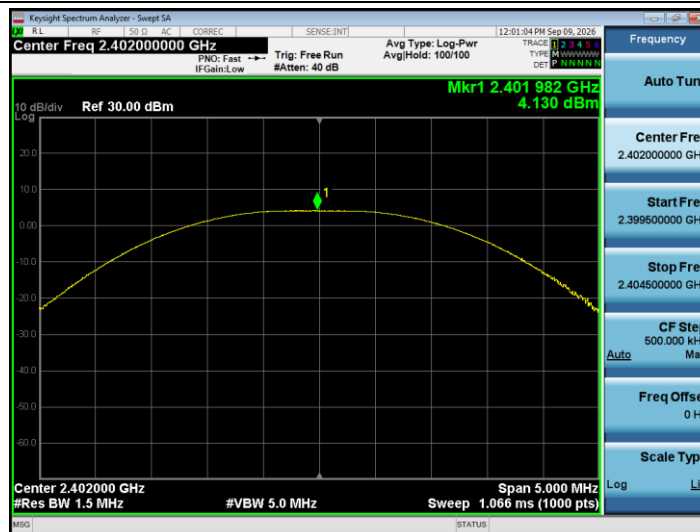
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	4.130	≤30.00	PASS
	Ant1	2440	3.773	≤30.00	PASS
	Ant1	2480	2.916	≤30.00	PASS
BLE_2M	Ant1	2402	4.320	≤30.00	PASS
	Ant1	2440	3.987	≤30.00	PASS
	Ant1	2480	3.198	≤30.00	PASS

Note: All reported measurement levels include compensation for cable loss and external attenuation, applied using the spectrum analyzer's input correction function.





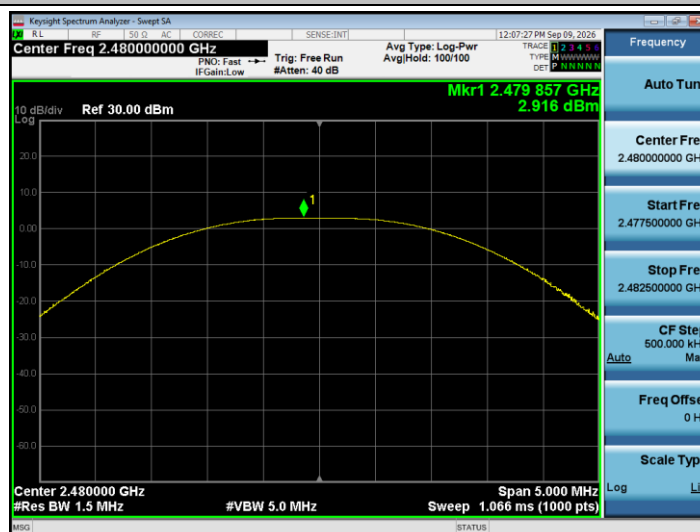
Test Graphs Peak



BLE_1M_Ant1_2402

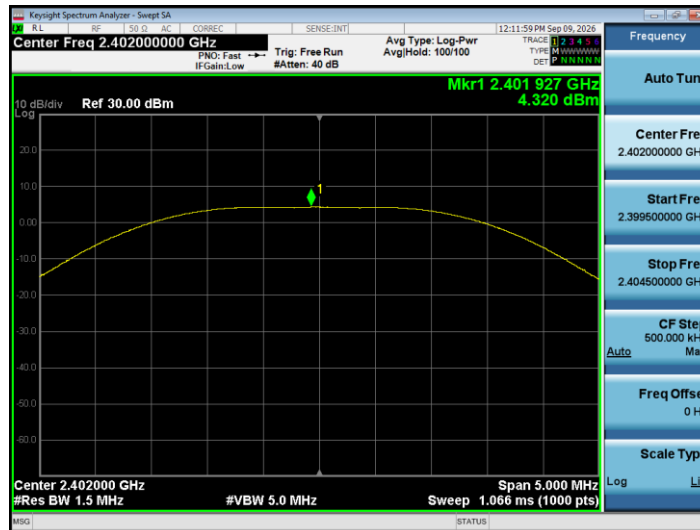


BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

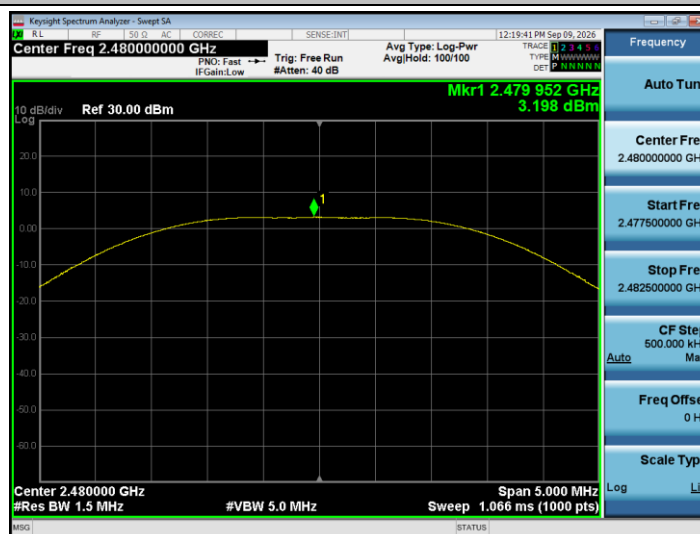




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix D: Maximum peak power spectral density

Test Result

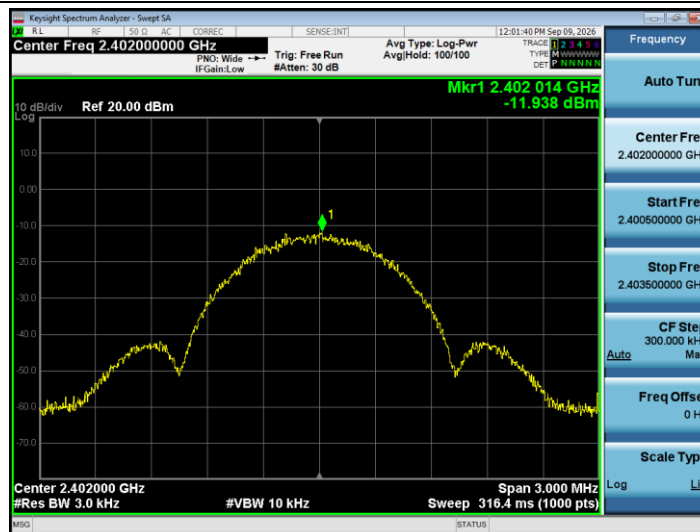
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-11.938	≤8.000	PASS
	Ant1	2440	-12.429	≤8.000	PASS
	Ant1	2480	-13.185	≤8.000	PASS
BLE_2M	Ant1	2402	-12.830	≤8.000	PASS
	Ant1	2440	-13.279	≤8.000	PASS
	Ant1	2480	-14.032	≤8.000	PASS

Note: All reported measurement levels include compensation for cable loss and external attenuation, applied using the spectrum analyzer's input correction function.

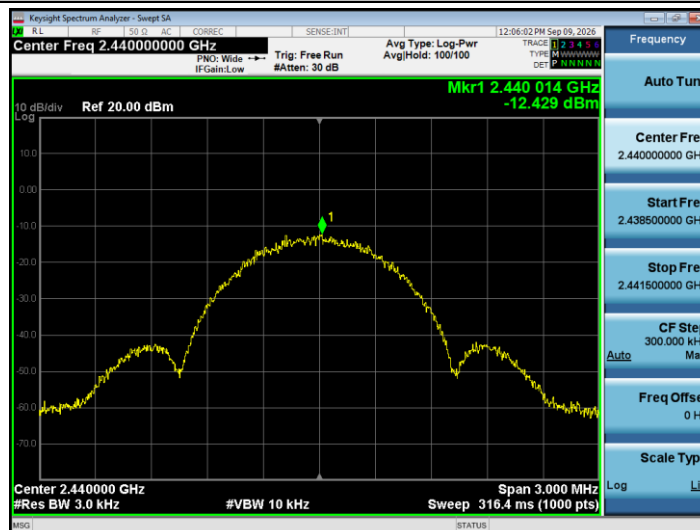




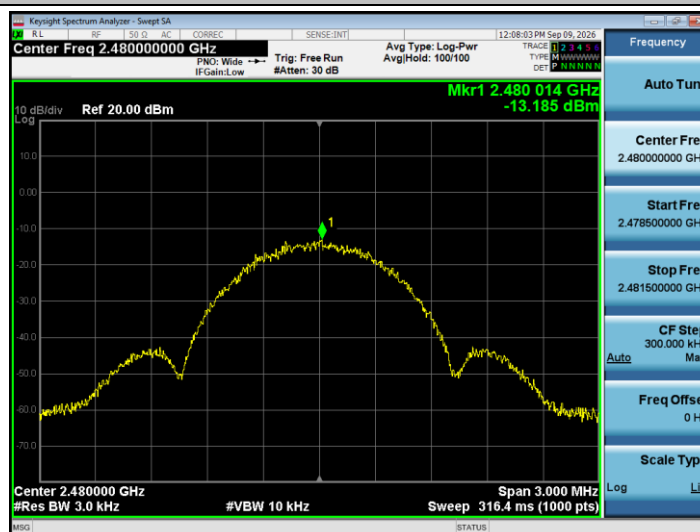
Test Graphs



BLE_1M_Ant1_2402

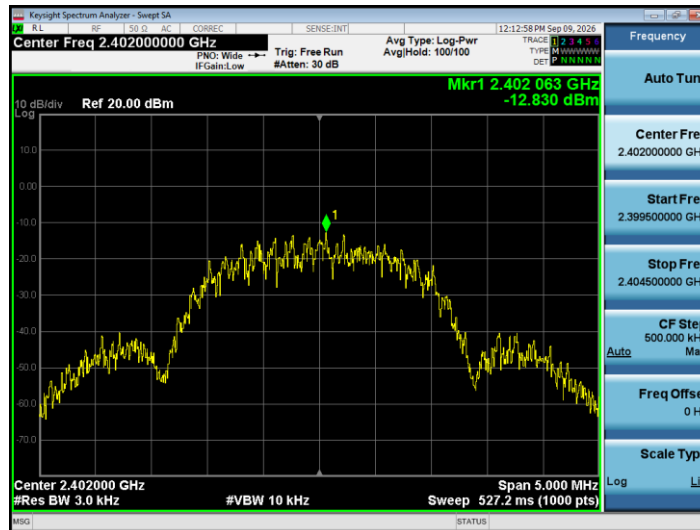


BLE_1M_Ant1_2440

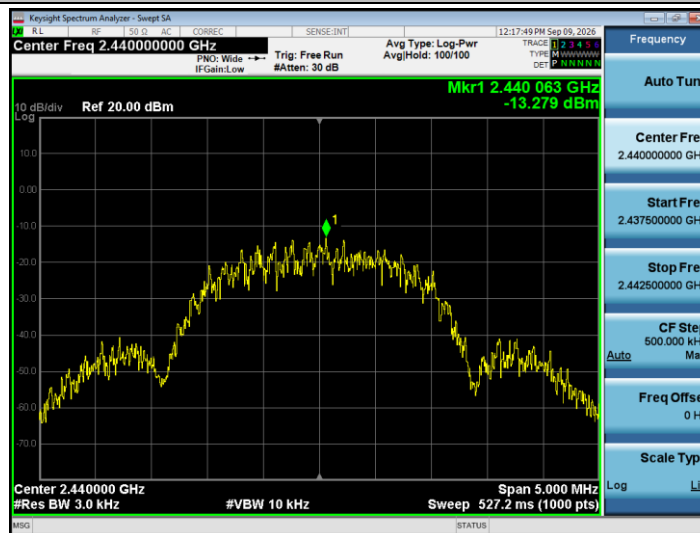


BLE_1M_Ant1_2480

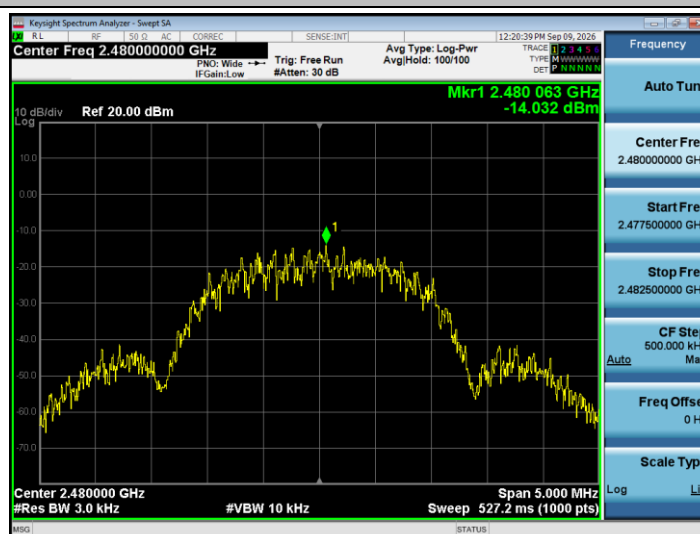




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480





Appendix E: Band edge measurements

Test Result

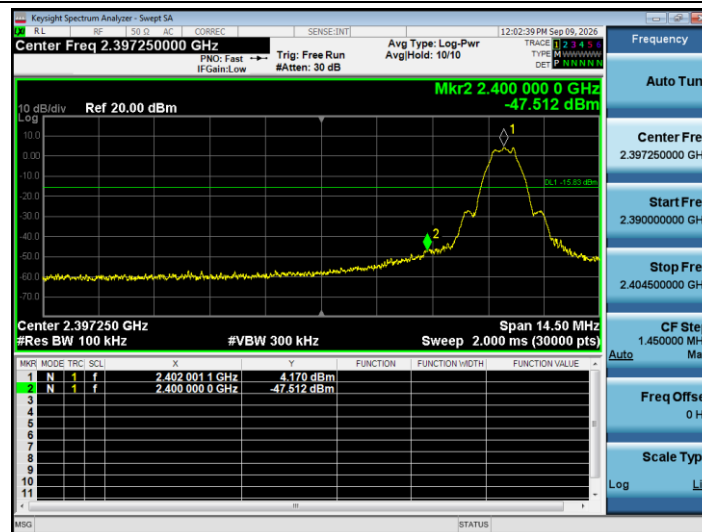
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.17	-47.51	≤ -15.83	PASS
	Ant1	High	2480	2.89	-56.89	≤ -17.11	PASS
BLE_2M	Ant1	Low	2402	4.26	-28.60	≤ -15.74	PASS
	Ant1	High	2480	3.15	-51.14	≤ -16.85	PASS

Note: All reported measurement levels include compensation for cable loss and external attenuation, applied using the spectrum analyzer's input correction function.

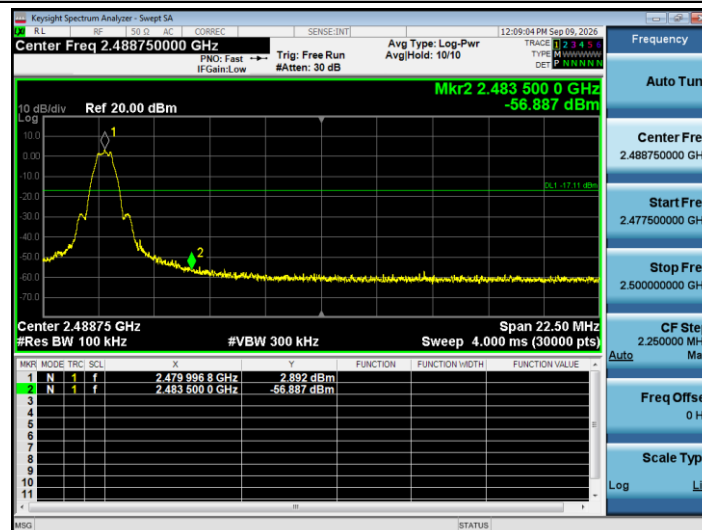




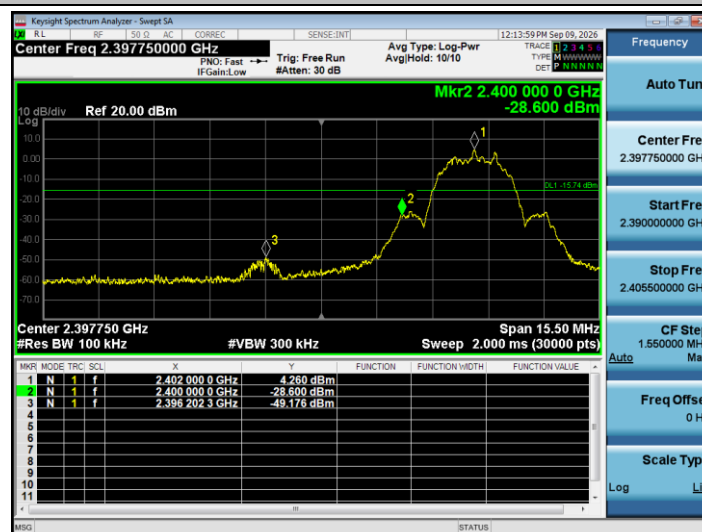
Test Graphs



BLE_1M_Ant1_2402_Low

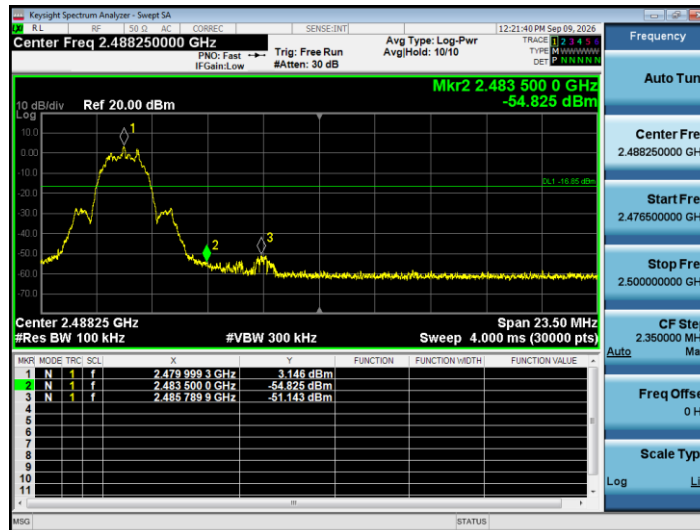


BLE_1M_Ant1_2480_High



BLE_2M_Ant1_2402_Low





BLE_2M_Ant1_2480_High





Appendix F: Conducted Spurious Emission

Test Result

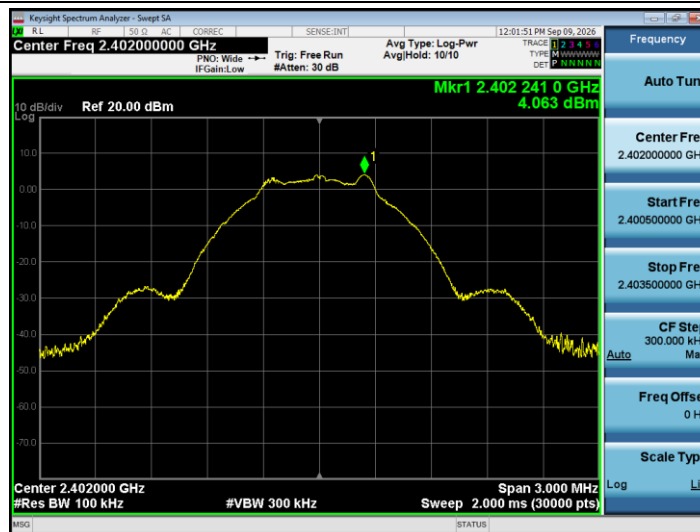
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	4.06	4.06	---	PASS
	Ant1	2402	30~1000	4.06	-59.35	≤-15.94	PASS
	Ant1	2402	1000~26500	4.06	-35.36	≤-15.94	PASS
	Ant1	2440	0~Reference	3.68	3.68	---	PASS
	Ant1	2440	30~1000	3.68	-59.19	≤-16.32	PASS
	Ant1	2440	1000~26500	3.68	-34.34	≤-16.32	PASS
	Ant1	2480	0~Reference	2.87	2.87	---	PASS
	Ant1	2480	30~1000	2.87	-58.71	≤-17.13	PASS
	Ant1	2480	1000~26500	2.87	-35.80	≤-17.13	PASS
BLE_2M	Ant1	2402	0~Reference	4.33	4.33	---	PASS
	Ant1	2402	30~1000	4.33	-59.83	≤-15.67	PASS
	Ant1	2402	1000~26500	4.33	-37.73	≤-15.67	PASS
	Ant1	2440	0~Reference	3.89	3.89	---	PASS
	Ant1	2440	30~1000	3.89	-58.39	≤-16.11	PASS
	Ant1	2440	1000~26500	3.89	-37.29	≤-16.11	PASS
	Ant1	2480	0~Reference	3.06	3.06	---	PASS
	Ant1	2480	30~1000	3.06	-59.27	≤-16.94	PASS
	Ant1	2480	1000~26500	3.06	-37.96	≤-16.94	PASS

Note: All reported measurement levels include compensation for cable loss and external attenuation, applied using the spectrum analyzer's input correction function.

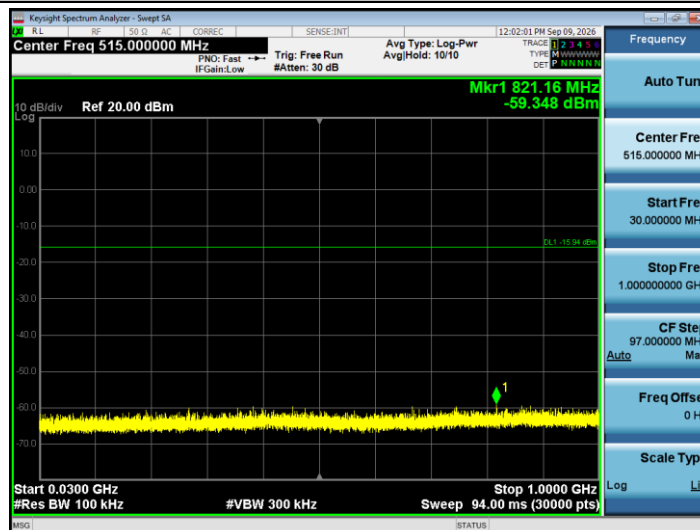




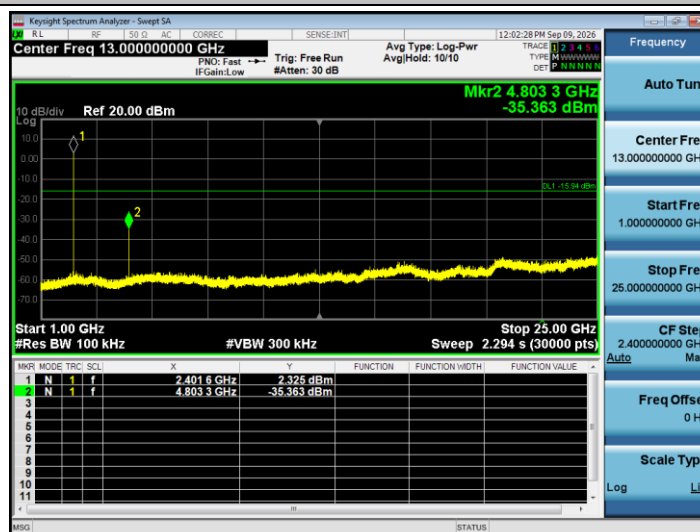
Test Graphs



BLE_1M_Ant1_2402

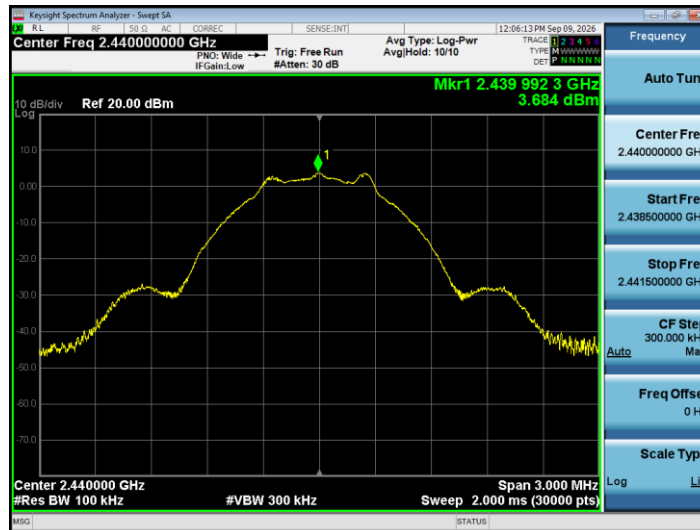


BLE_1M_Ant1_2402

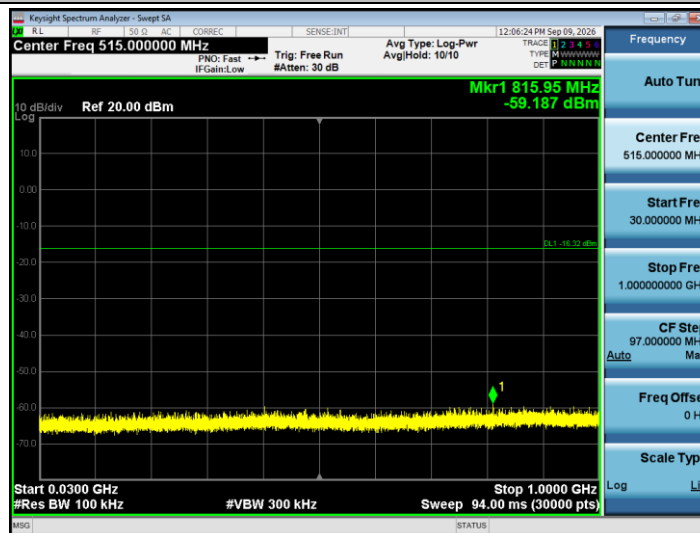


BLE_1M_Ant1_2402

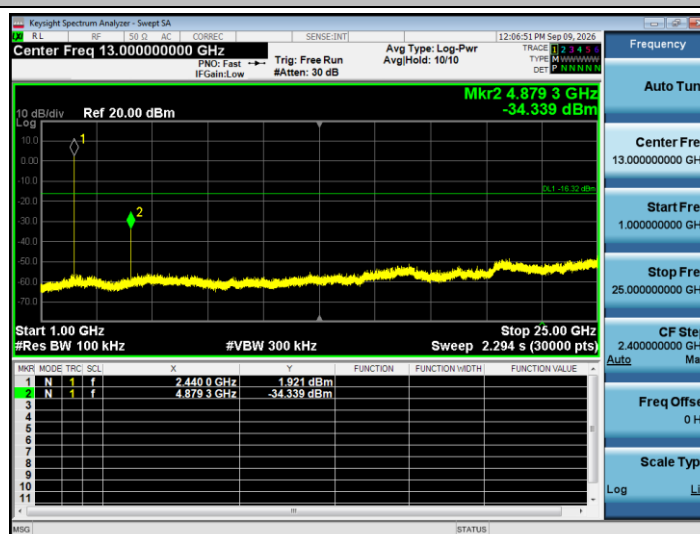




BLE_1M_Ant1_2440



BLE_1M_Ant1_2440

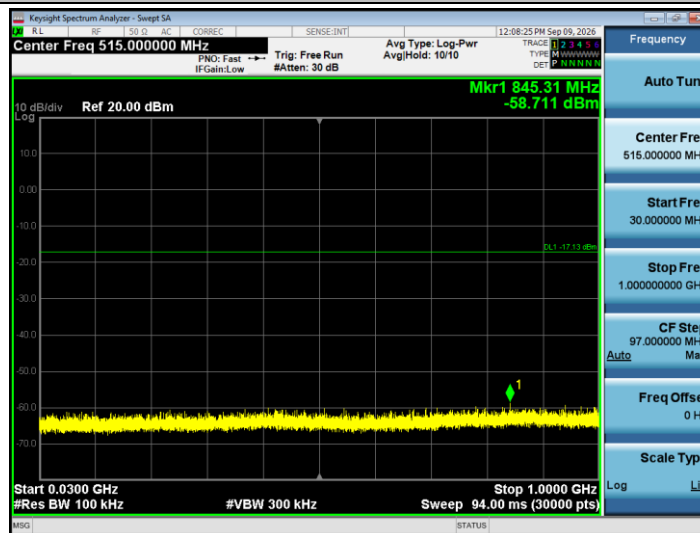


BLE_1M_Ant1_2440

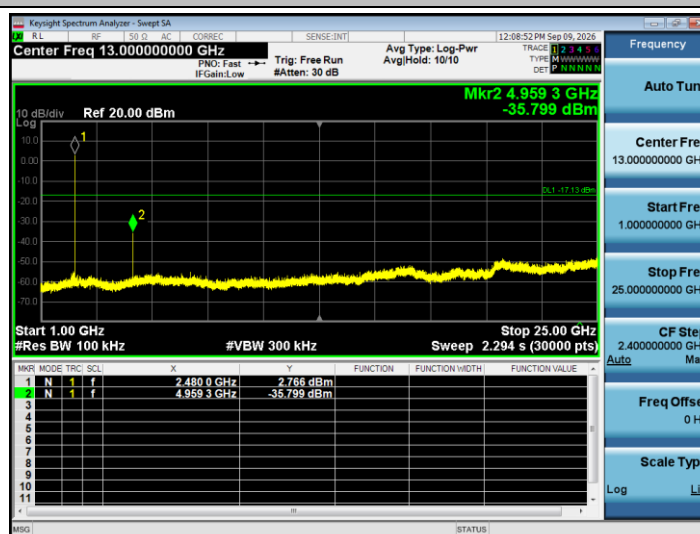




BLE_1M_Ant1_2480

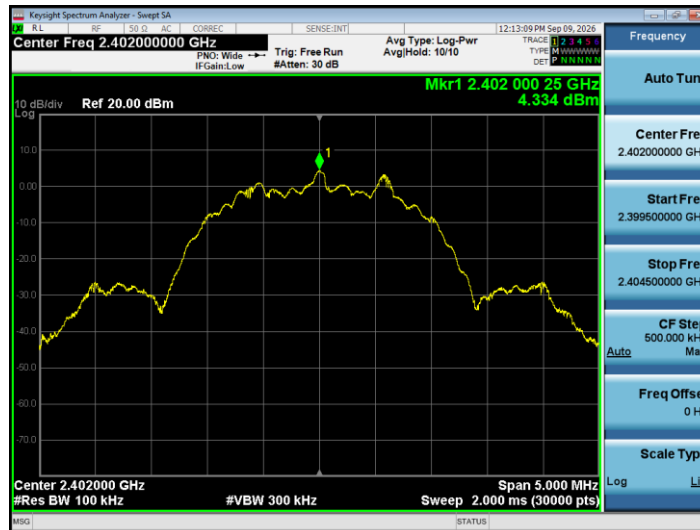


BLE_1M_Ant1_2480

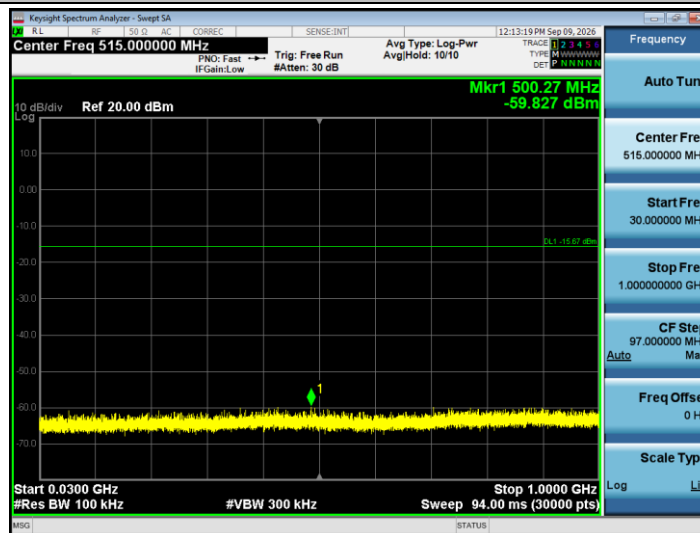


BLE_1M_Ant1_2480

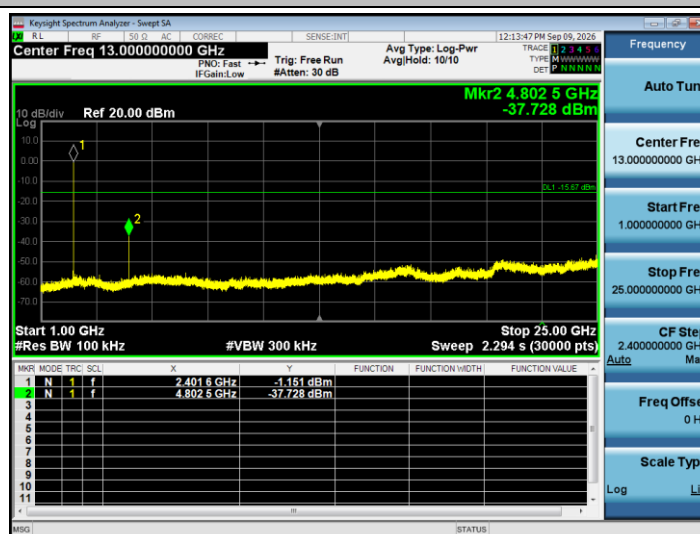




BLE_2M_Ant1_2402



BLE_2M_Ant1_2402

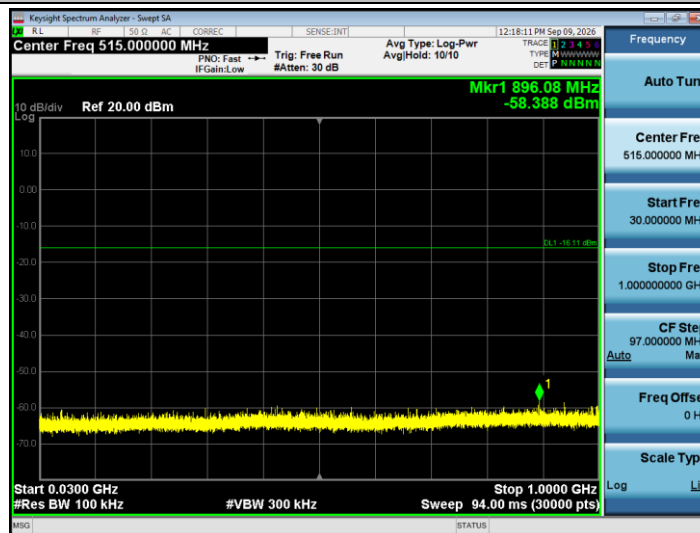


BLE_2M_Ant1_2402

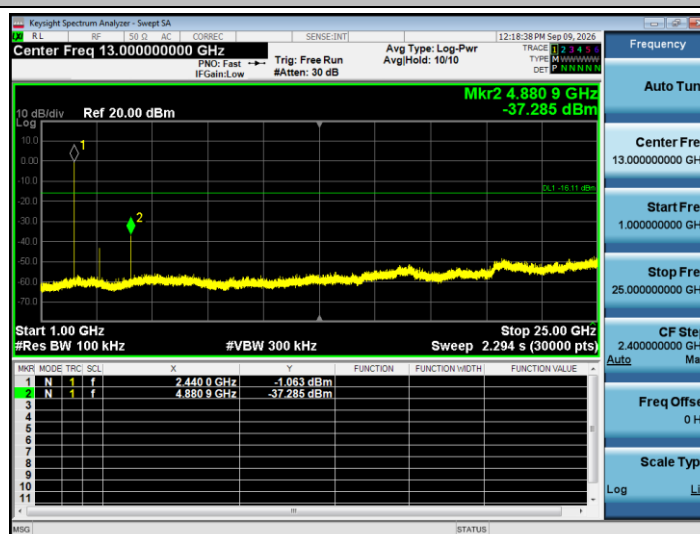




BLE_2M_Ant1_2440



BLE_2M_Ant1_2440

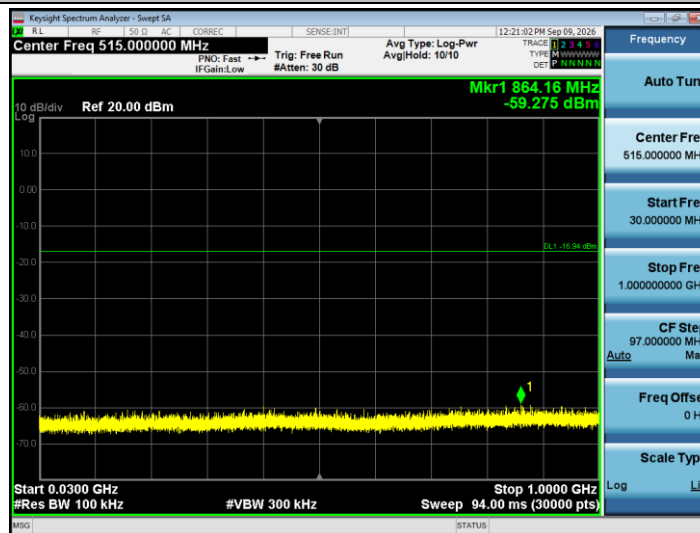


BLE_2M_Ant1_2440

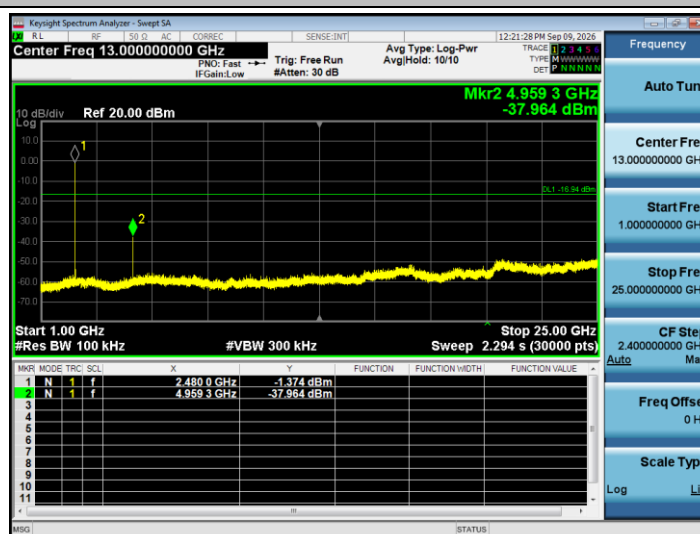




BLE_2M_Ant1_2480



BLE_2M_Ant1_2480



BLE_2M_Ant1_2480





Appendix G: Duty Cycle

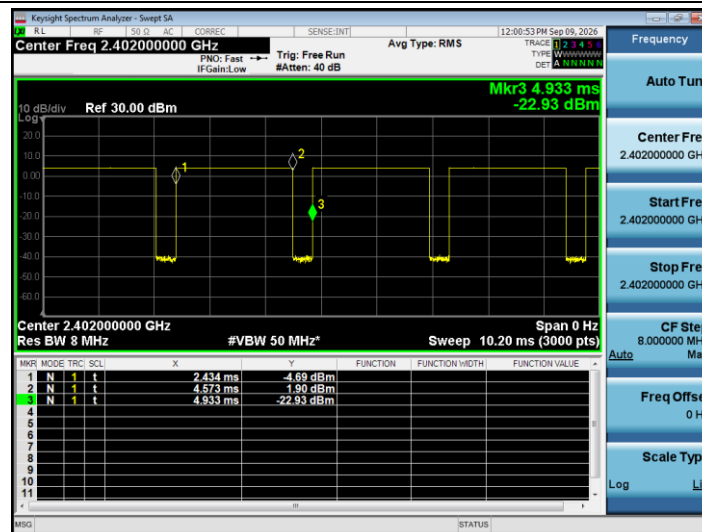
Test Result

Test Mode	Antenna	Frequency [MHz]	Duty Cycle [%]	Duty Cycle Factor [dB]
BLE_1M	Ant1	2402	86.00	0.66
	Ant1	2440	86.00	0.66
	Ant1	2480	86.00	0.66
BLE_2M	Ant1	2402	43.00	3.67
	Ant1	2440	43.00	3.67
	Ant1	2480	43.00	3.67

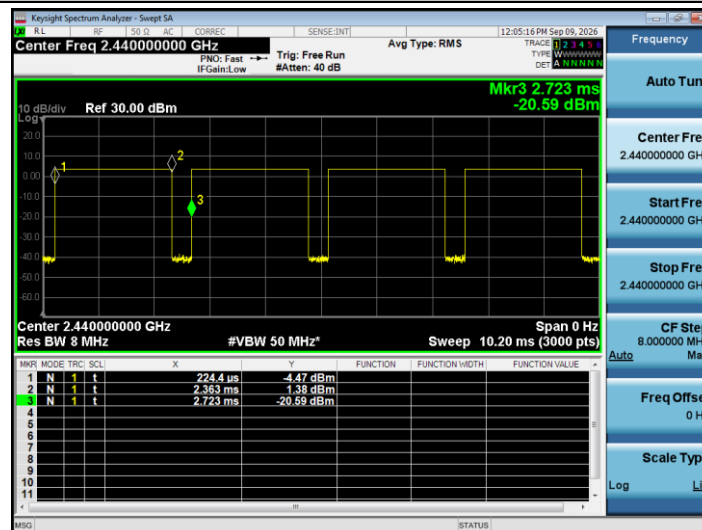




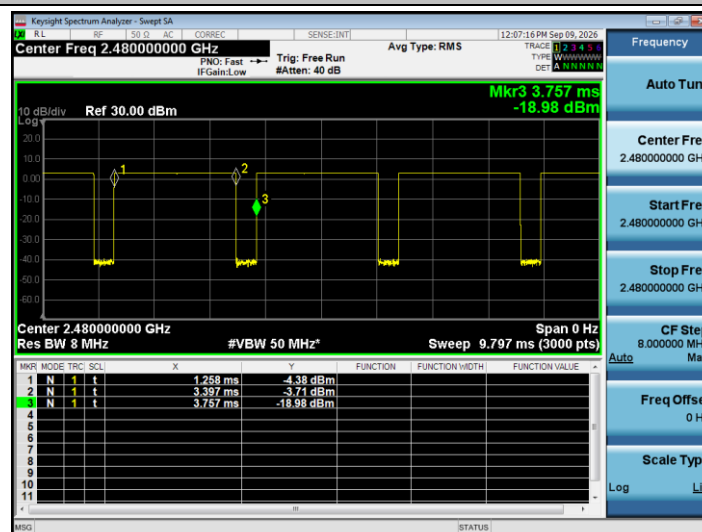
Test Graphs



BLE_1M_Ant1_2402

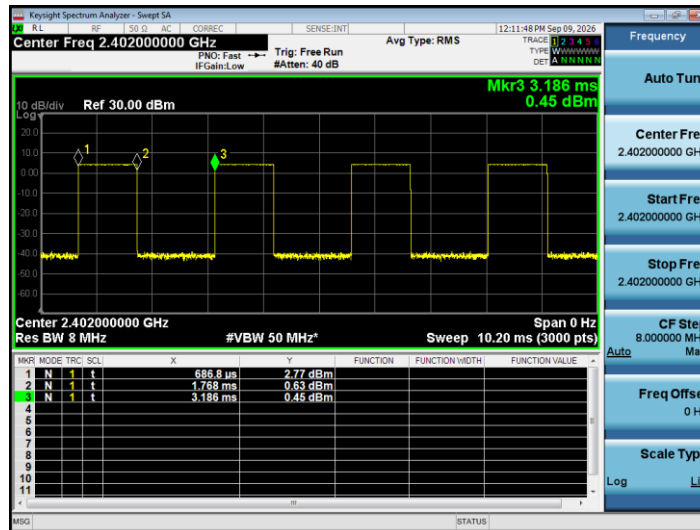


BLE_1M_Ant1_2440

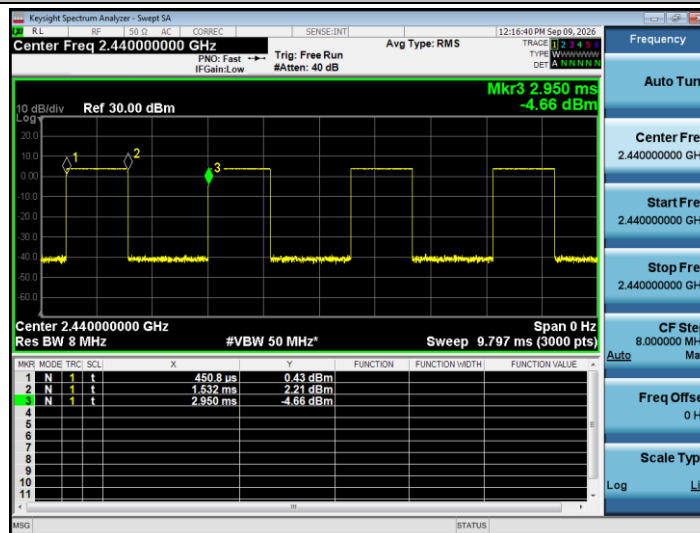


BLE_1M_Ant1_2480

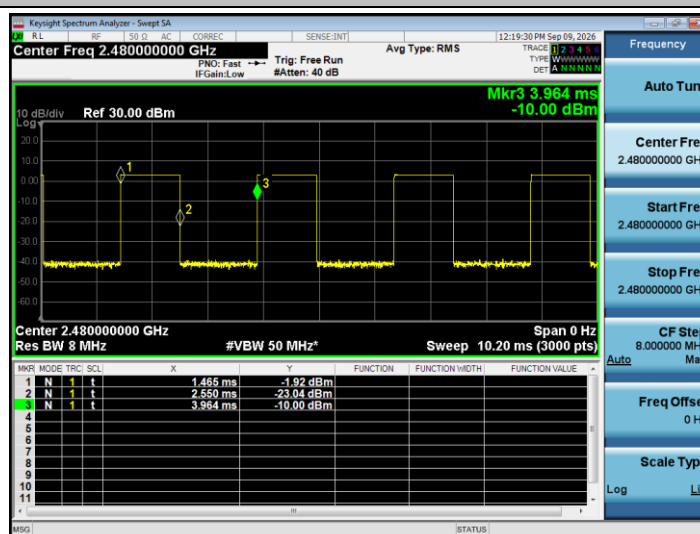




BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480

