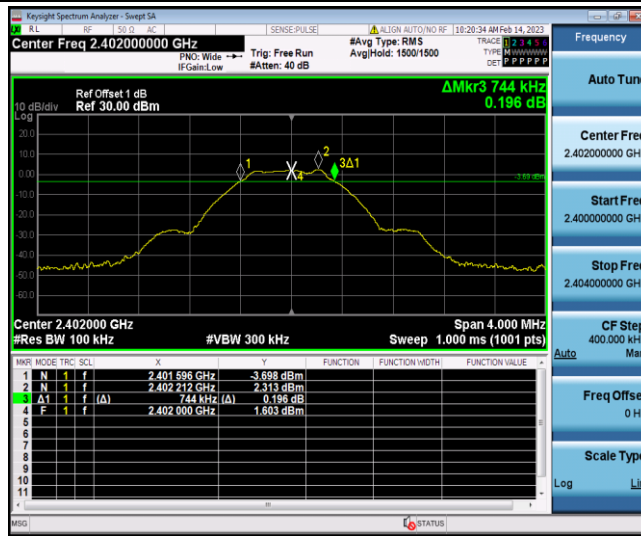


**Appendix for FCC BLE**  
**Test Report No. :CTL2212309012-WF**

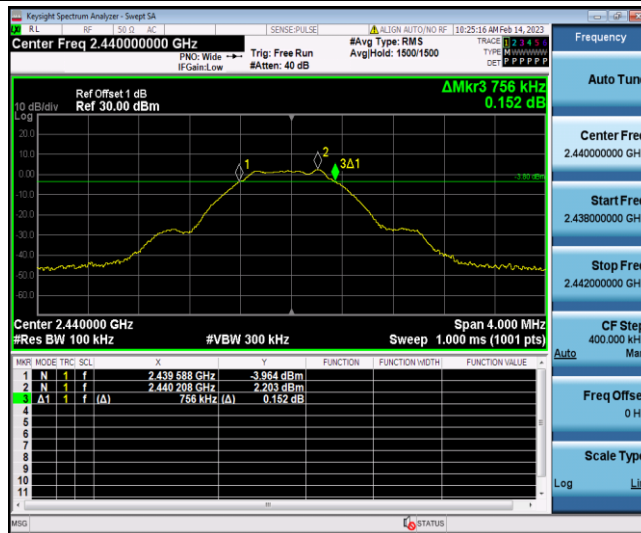
**Appendix A: DTS Bandwidth****Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.0	Ant1	2402	0.744	2401.596	2402.340	0.5	PASS
		2440	0.756	2439.588	2440.344	0.5	PASS
		2480	0.776	2479.580	2480.356	0.5	PASS
BLE_BT5.0	Ant1	2402	1.398	2401.280	2402.678	0.5	PASS
		2440	1.410	2439.274	2440.684	0.5	PASS
		2480	1.404	2479.274	2480.678	0.5	PASS

Test Graphs



BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480



BLE BT5.0 Ant1\_2402



BLE BT5.0 Ant1\_2440



BLE BT5.0 Ant1\_2480

## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_BT4.0	Ant1	2402	1.0480	2401.446	2402.494	---	PASS
		2440	1.0596	2439.442	2440.502	---	PASS
		2480	1.0746	2479.430	2480.505	---	PASS
BLE_BT5.0	Ant1	2402	2.0998	2400.933	2403.032	---	PASS
		2440	2.0986	2438.933	2441.032	---	PASS
		2480	2.1062	2478.928	2481.034	---	PASS

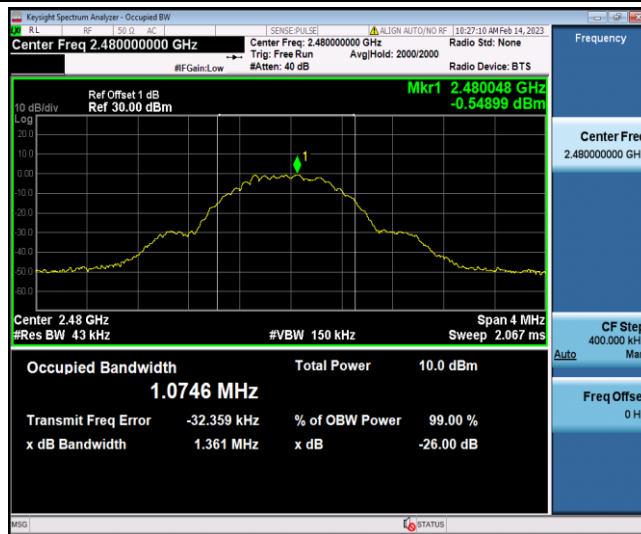
Test Graphs



BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480



BLE BT5.0 Ant1\_2402



BLE BT5.0 Ant1\_2440

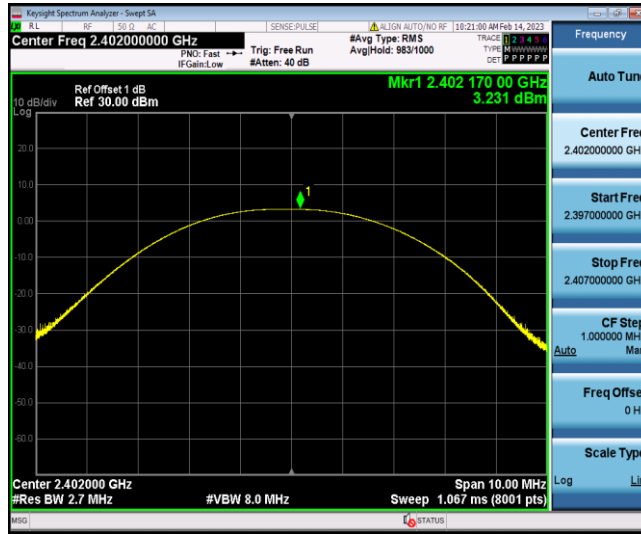


BLE BT5.0 Ant1\_2480

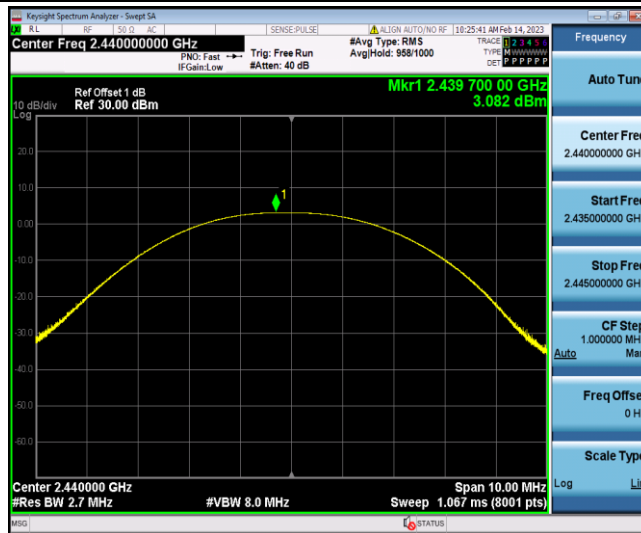
**Appendix C: Maximum conducted output power****Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	3.23	≤30	PASS
		2440	3.08	≤30	PASS
		2480	2.71	≤30	PASS
BLE_BT5.0	Ant1	2402	3.28	≤30	PASS
		2440	3.04	≤30	PASS
		2480	2.8	≤30	PASS

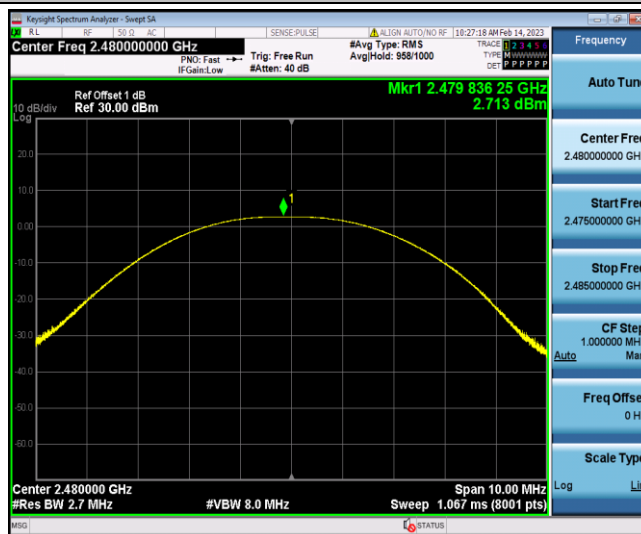
### Test Graphs



BLE\_BT4.0\_Ant1\_2402

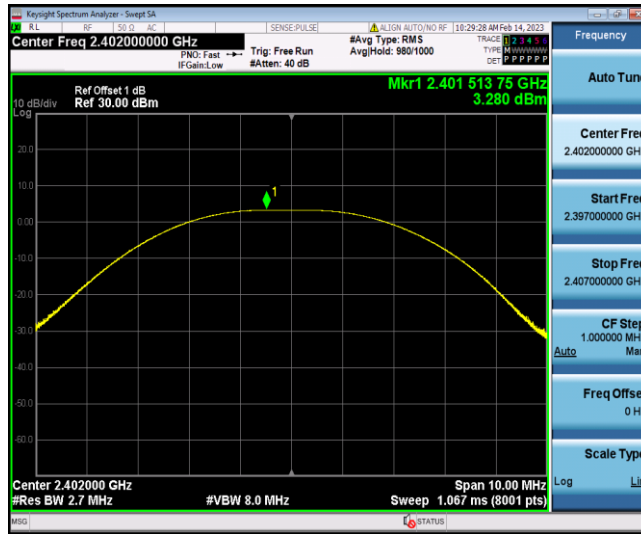


BLE\_BT4.0\_Ant1\_2440

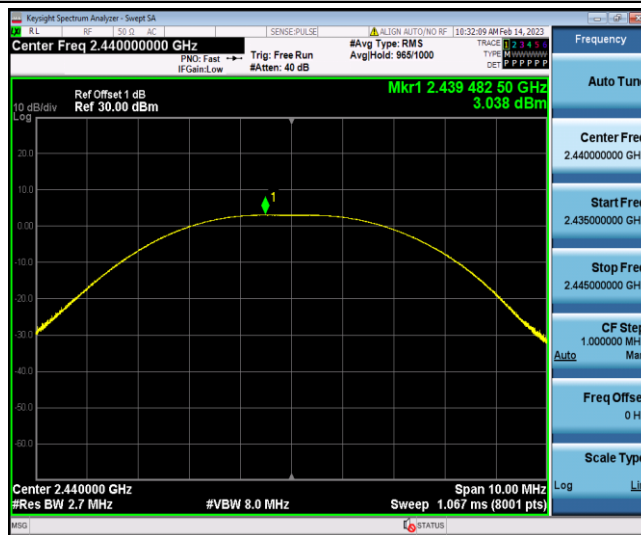




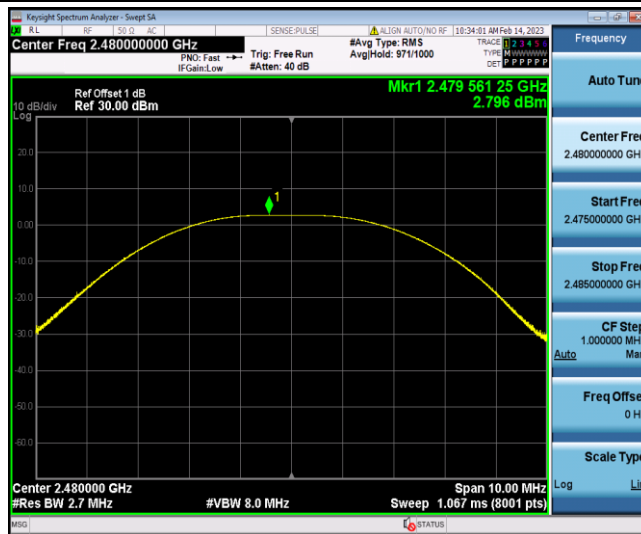
BLE\_BT4.0\_Ant1\_2480



BLE\_BT5.0\_Ant1\_2402



BLE\_BT5.0\_Ant1\_2440

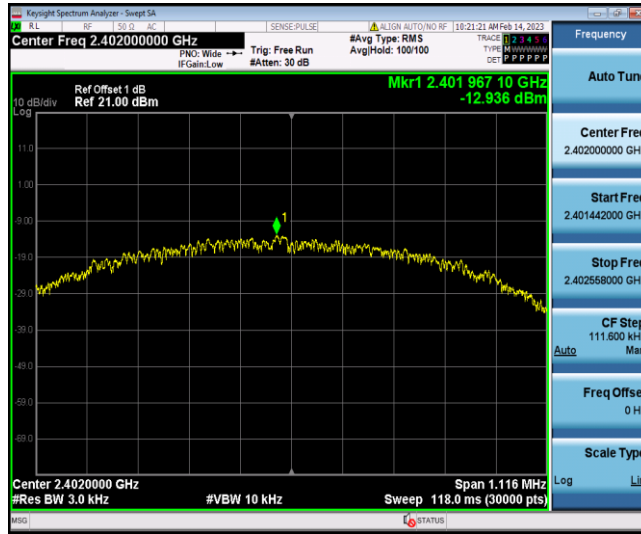


BLE\_BT5.0\_Ant1\_2480

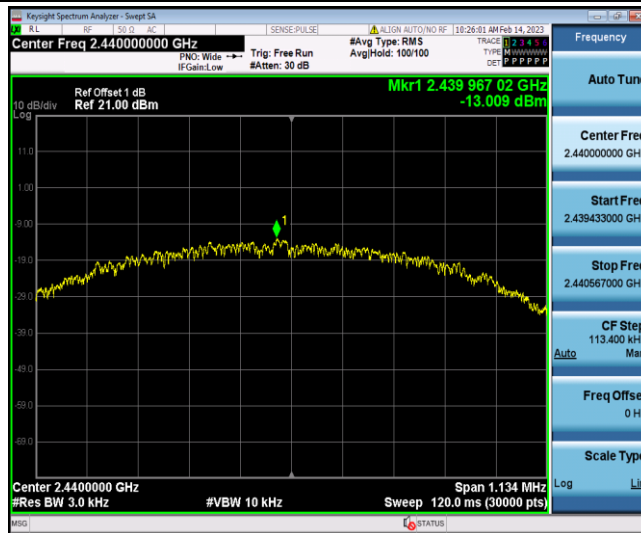
**Appendix D: Maximum power spectral density****Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_BT4.0	Ant1	2402	-12.94	≤8	PASS
		2440	-13.01	≤8	PASS
		2480	-12.32	≤8	PASS
BLE_BT5.0	Ant1	2402	-17.65	≤8	PASS
		2440	-17.97	≤8	PASS
		2480	-17.65	≤8	PASS

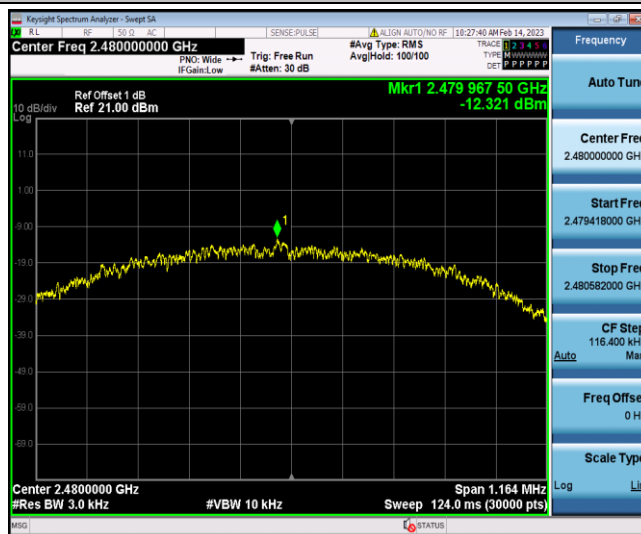
### Test Graphs



BLE\_BT4.0\_Ant1\_2402



BLE\_BT4.0\_Ant1\_2440



BLE\_BT4.0\_Ant1\_2480



BLE\_BT5.0\_Ant1\_2402



BLE\_BT5.0\_Ant1\_2440



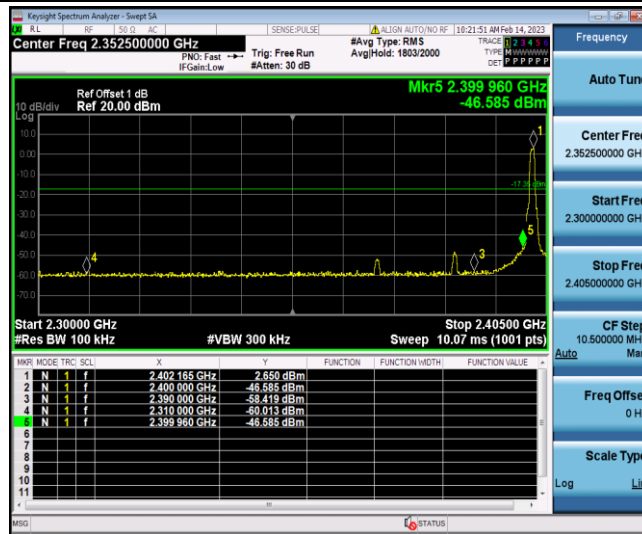
BLE\_BT5.0\_Ant1\_2480

## Appendix E: Band edge measurements

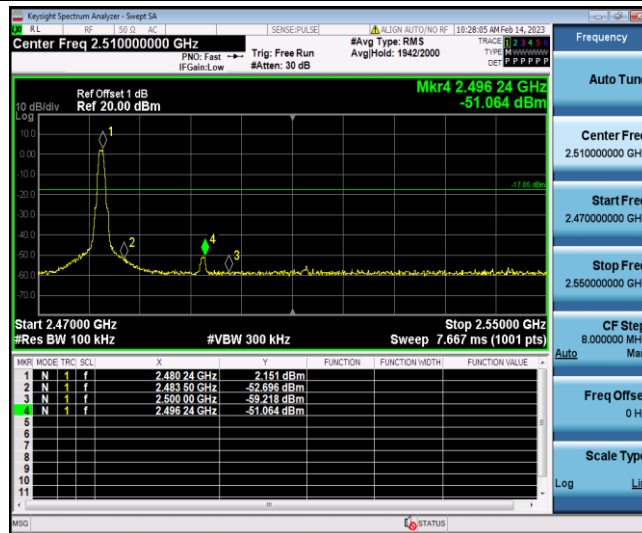
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	Low	2402	2.65	-46.59	$\leq -17.35$	PASS
		High	2480	2.15	-51.06	$\leq -17.85$	PASS
BLE_BT5.0	Ant1	Low	2402	0.73	-31.46	$\leq -19.27$	PASS
		High	2480	0.32	-51.48	$\leq -19.68$	PASS

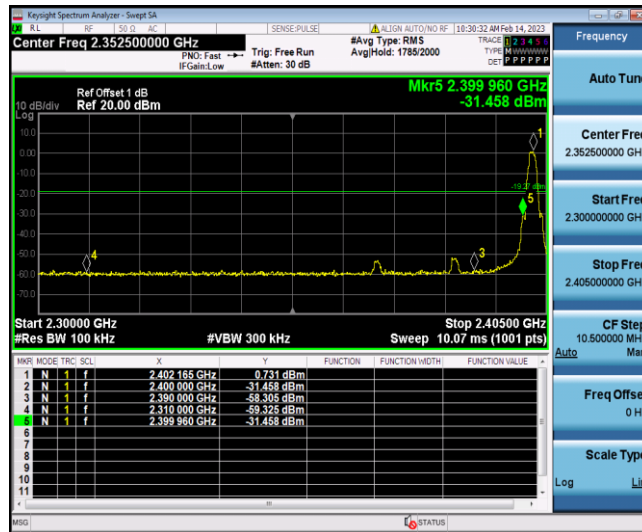
Test Graphs



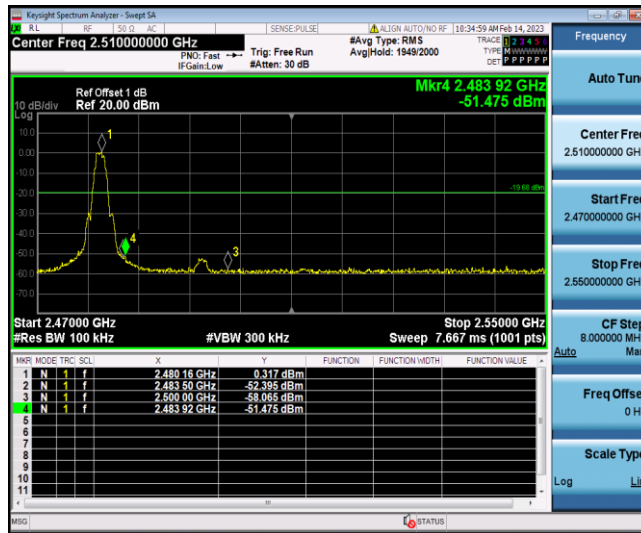
BLE\_BT4.0\_Ant1\_Low\_2402



BLE\_BT4.0\_Ant1\_High\_2480



BLE\_BT5.0\_Ant1\_Low\_2402



BLE\_BT5.0\_Ant1\_High\_2480

## Appendix F: Conducted Spurious Emission

### Test Result

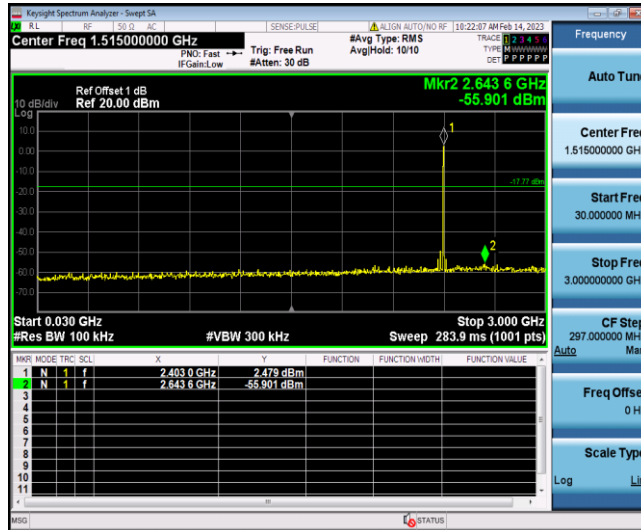
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_BT4.0	Ant1	2402	Reference	2.23	2.23	---	PASS
			30~3000	2.23	-55.9	≤-17.77	PASS
			3000~26500	2.23	-35.47	≤-17.77	PASS
		2440	Reference	2.04	2.04	---	PASS
			30~3000	2.04	-56.15	≤-17.96	PASS
			3000~26500	2.04	-35.61	≤-17.96	PASS
		2480	Reference	1.73	1.73	---	PASS
			30~3000	1.73	-55.96	≤-18.27	PASS
			3000~26500	1.73	-36.49	≤-18.27	PASS
BLE_BT5.0	Ant1	2402	Reference	-0.17	-0.17	---	PASS
			30~3000	-0.17	-55.76	≤-20.17	PASS
			3000~26500	-0.17	-37.96	≤-20.17	PASS
		2440	Reference	-0.35	-0.35	---	PASS
			30~3000	-0.35	-55.51	≤-20.35	PASS
			3000~26500	-0.35	-37.72	≤-20.35	PASS
		2480	Reference	-0.53	-0.53	---	PASS
			30~3000	-0.53	-55.68	≤-20.53	PASS
			3000~26500	-0.53	-38.01	≤-20.53	PASS



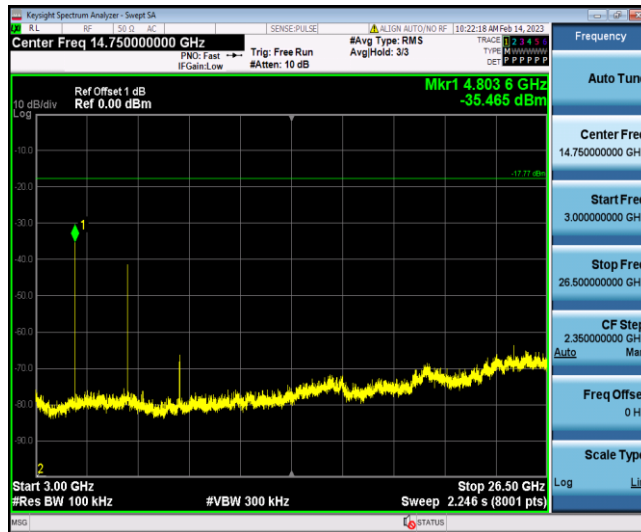
Test Graphs



BLE\_BT4.0\_Ant1\_2402\_0~Reference



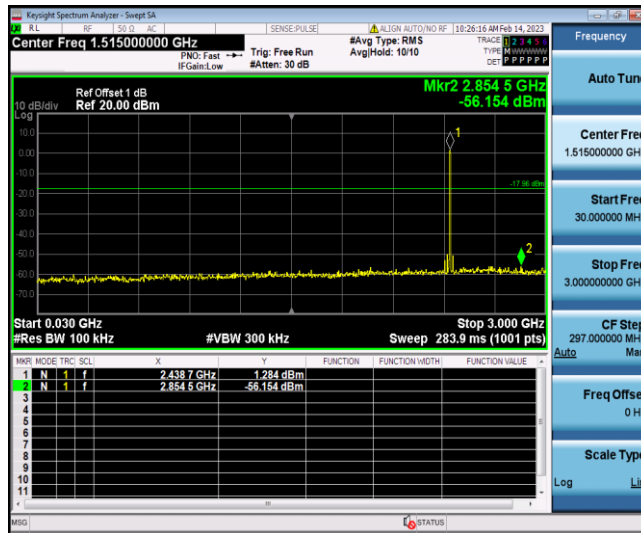
BLE\_BT4.0\_Ant1\_2402\_30~3000



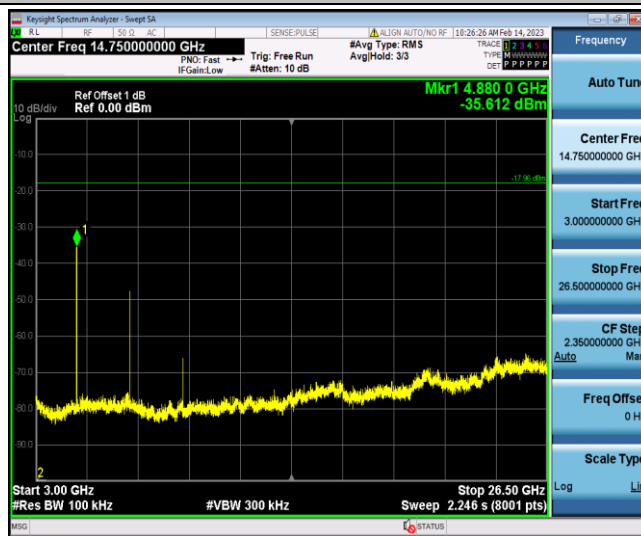
BLE\_BT4.0\_Ant1\_2402\_3000~26500



BLE\_BT4.0\_Ant1\_2440\_0~Reference



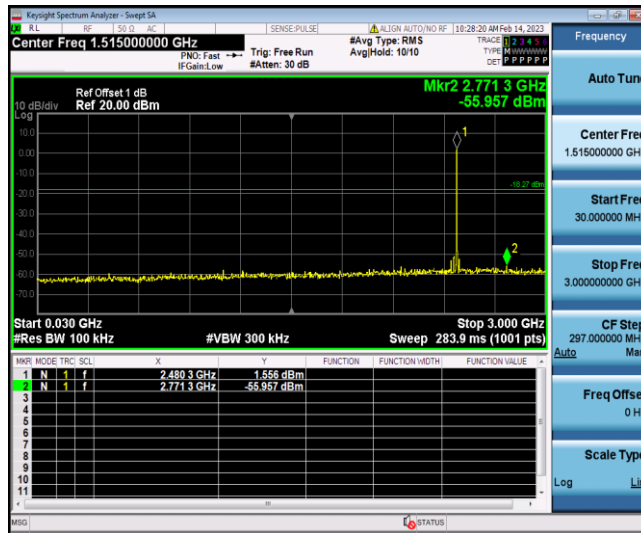
BLE\_BT4.0\_Ant1\_2440\_30~3000



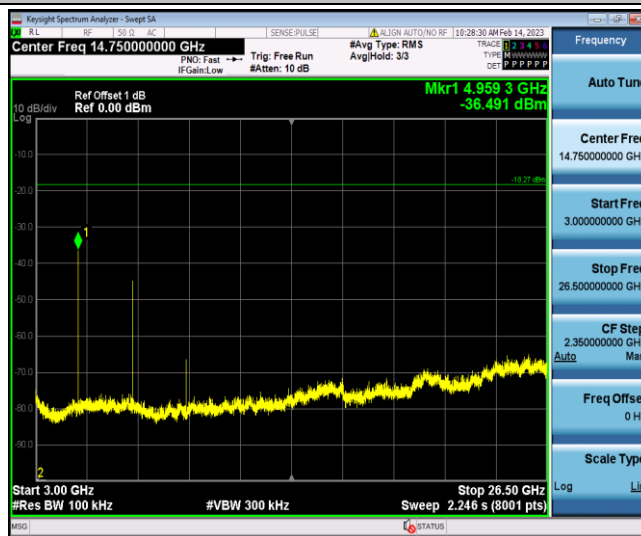
BLE\_BT4.0\_Ant1\_2440\_3000~26500



BLE\_BT4.0\_Ant1\_2480\_0~Reference



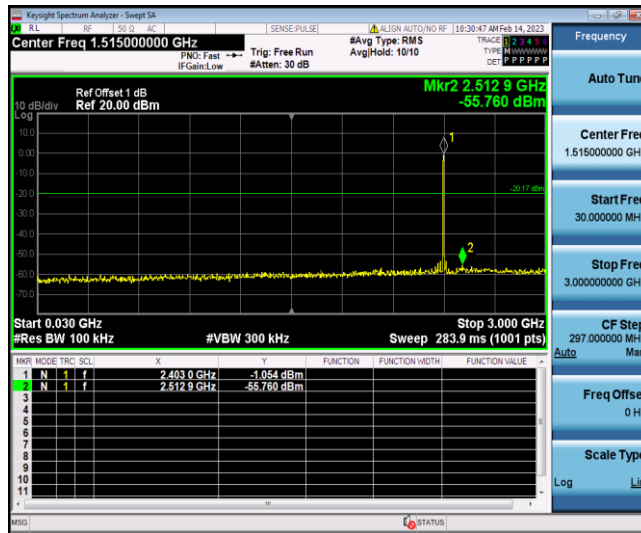
BLE\_BT4.0\_Ant1\_2480\_30~3000



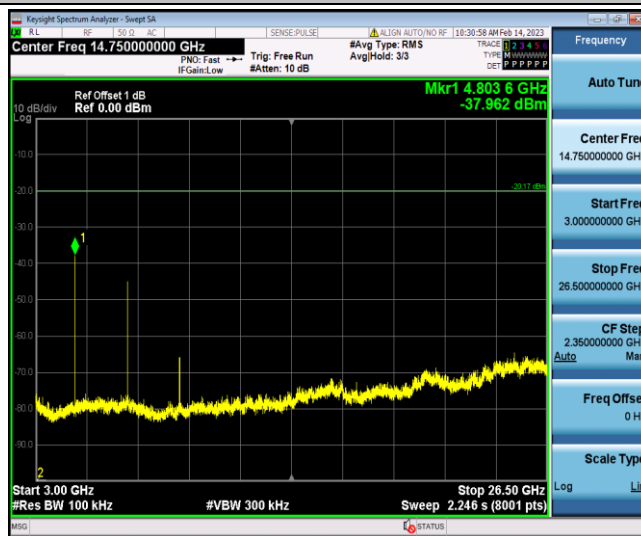
BLE\_BT4.0\_Ant1\_2480\_3000~26500



BLE\_BT5.0\_Ant1\_2402\_0~Reference



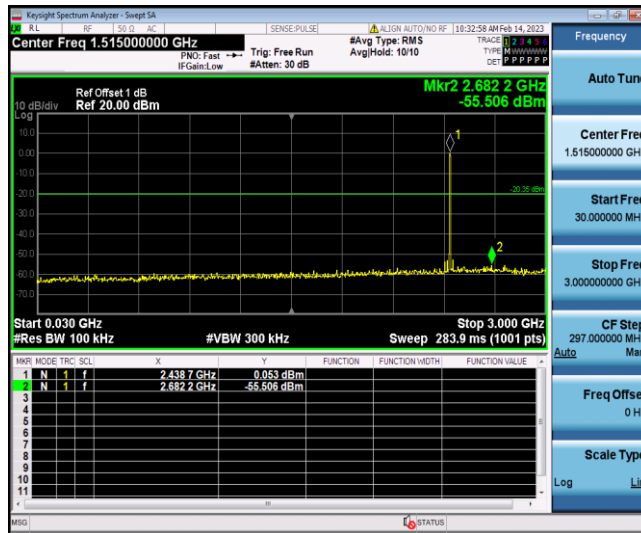
BLE\_BT5.0\_Ant1\_2402\_30~3000



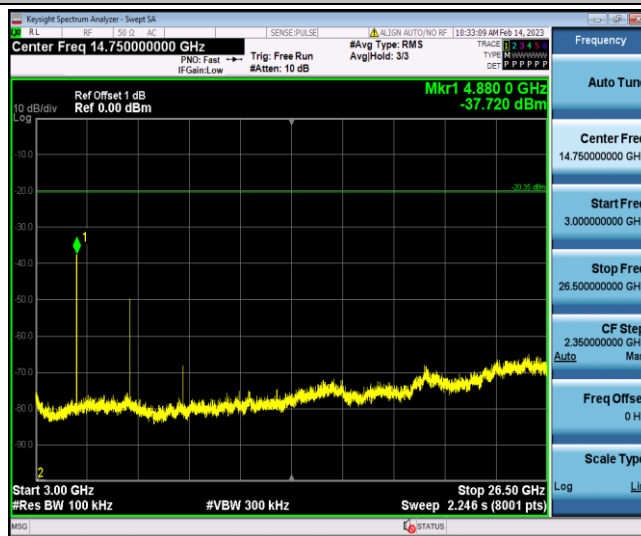
BLE\_BT5.0\_Ant1\_2402\_3000~26500



BLE\_BT5.0\_Ant1\_2440\_0~Reference



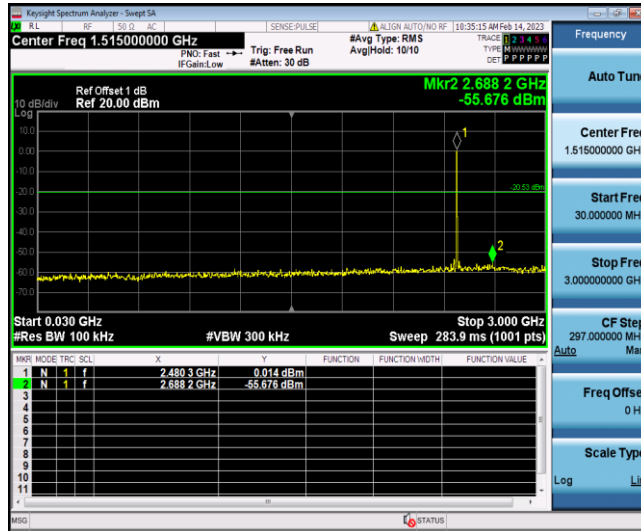
BLE\_BT5.0\_Ant1\_2440\_30~3000



BLE\_BT5.0\_Ant1\_2440\_3000~26500



BLE\_BT5.0\_Ant1\_2480\_0~Reference



BLE\_BT5.0\_Ant1\_2480\_30~3000



BLE\_BT5.0\_Ant1\_2480\_3000~26500

\*\*\*\*\* End \*\*\*\*\*