

Appendix Test Data for BT(BLE) (Conducted Measurement)

Product Name: Smart phone

Trade Mark: KRIP

Test Model: K60

FCC ID: 2APX7K60

Environmental Conditions

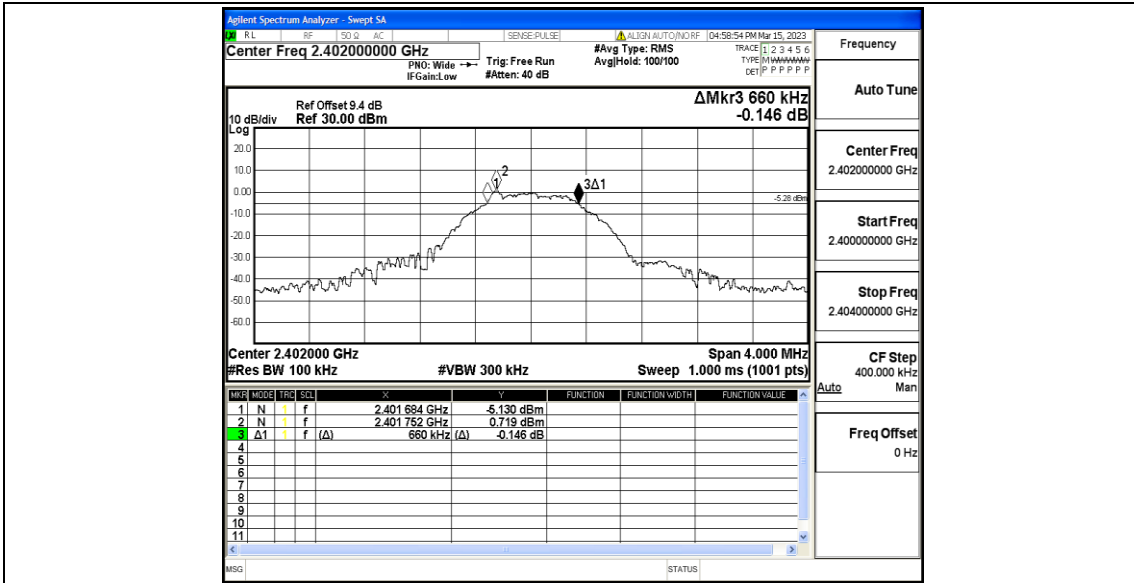
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: DTS Bandwidth

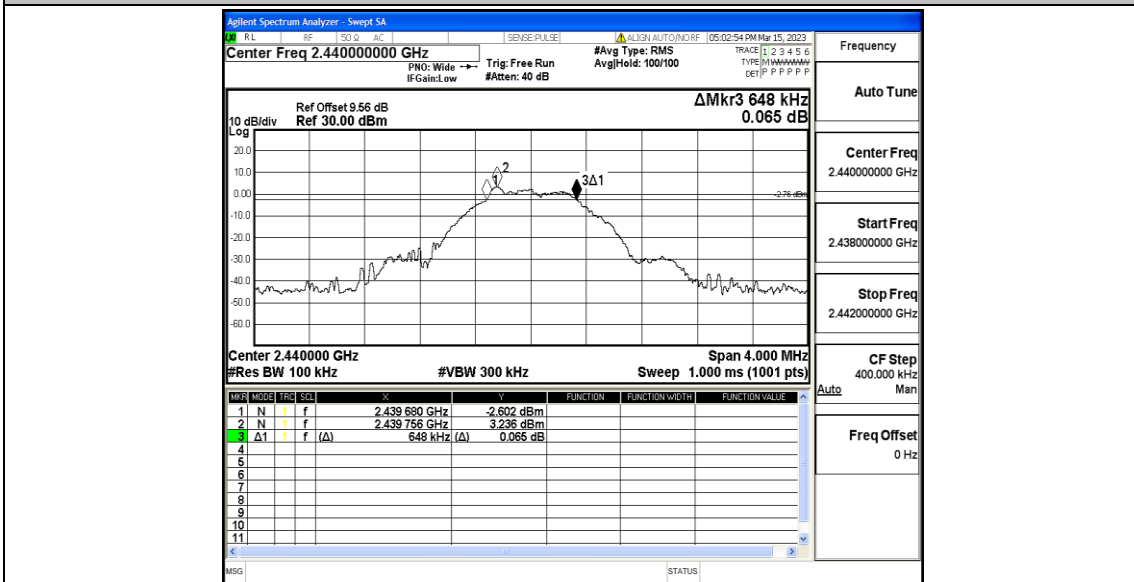
Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.660	2401.684	2402.344	0.5	PASS
		2440	0.648	2439.680	2440.328	0.5	PASS
		2480	0.692	2479.644	2480.336	0.5	PASS

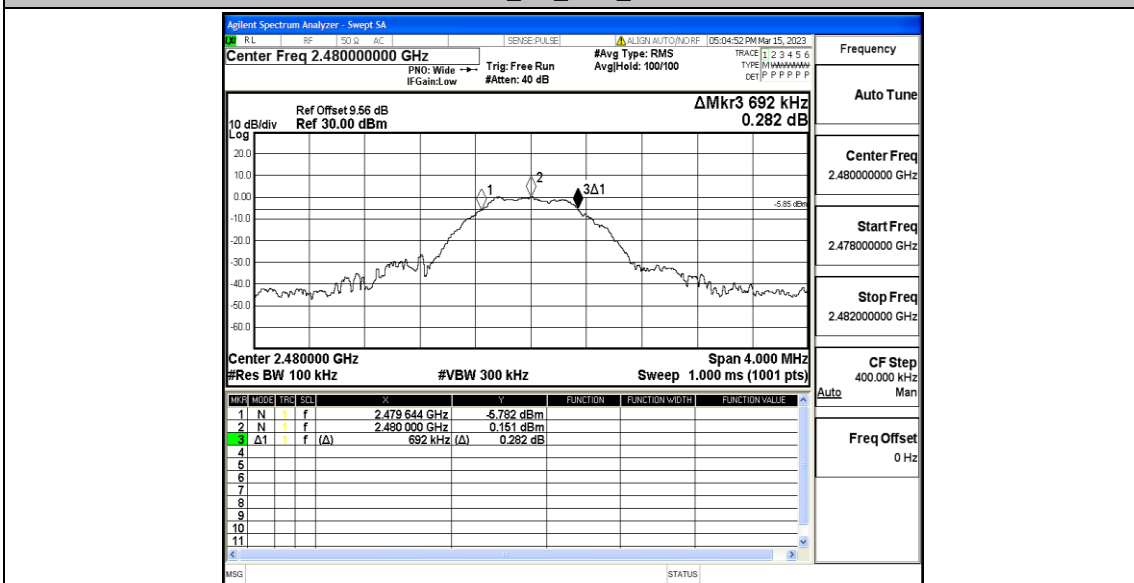
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



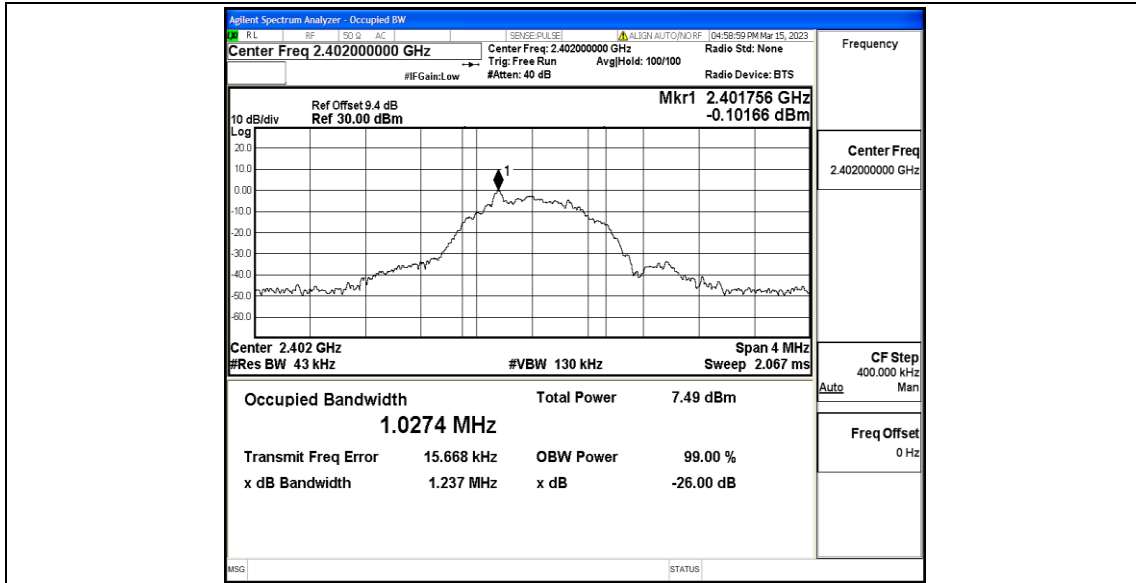
BLE_1M_Ant1_2480

Appendix B: Occupied Channel Bandwidth

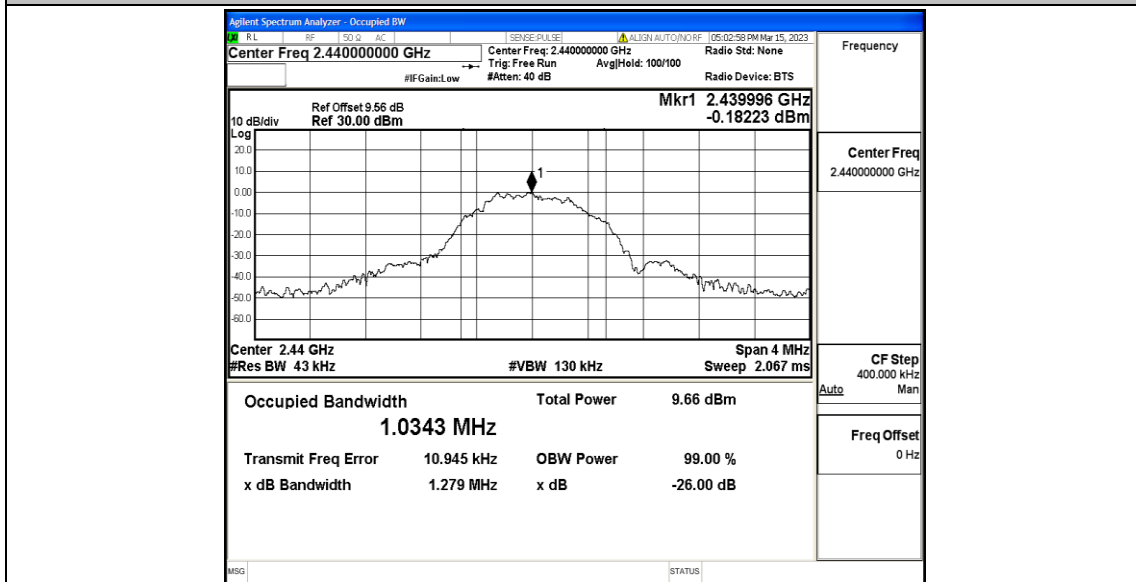
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0274	2401.5020	2402.5294	---	---
		2440	1.0343	2439.4938	2440.5281	---	---
		2480	1.0261	2479.4978	2480.5239	---	---

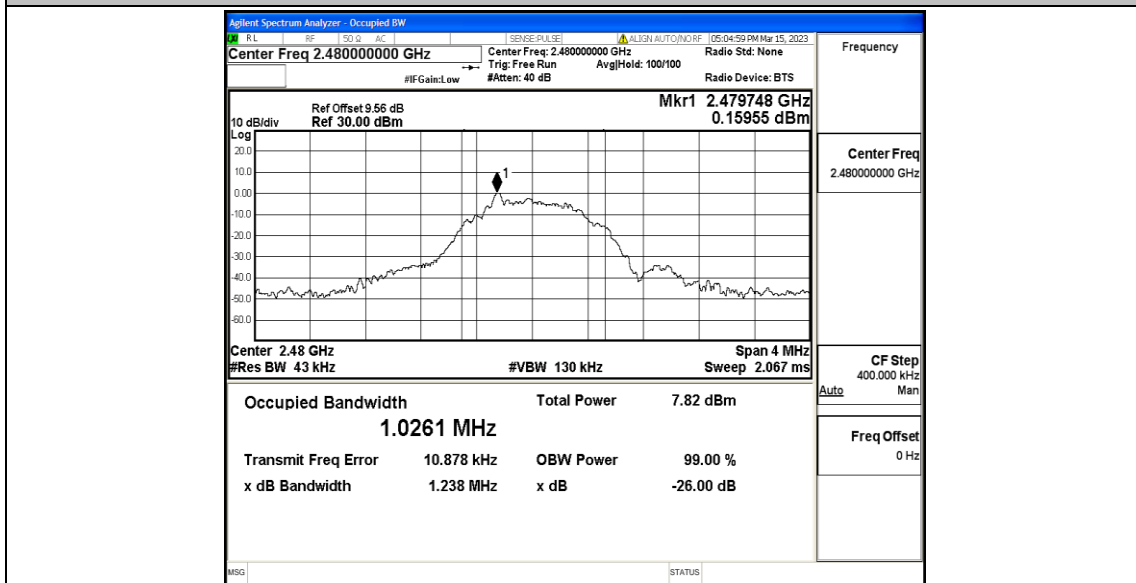
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



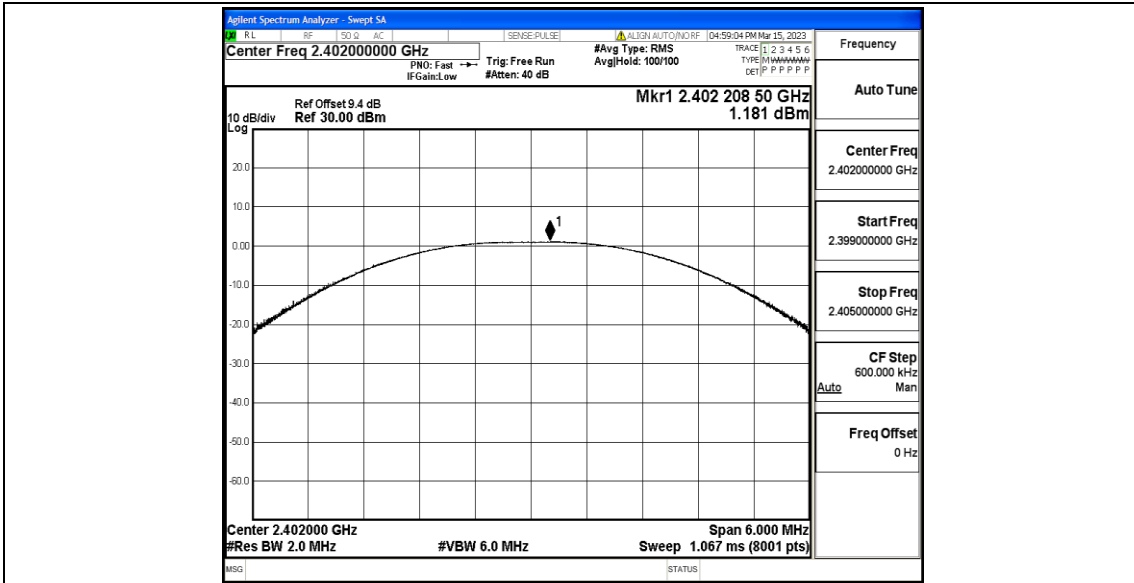
BLE_1M_Ant1_2480

Appendix C: Maximum Peak conducted output power

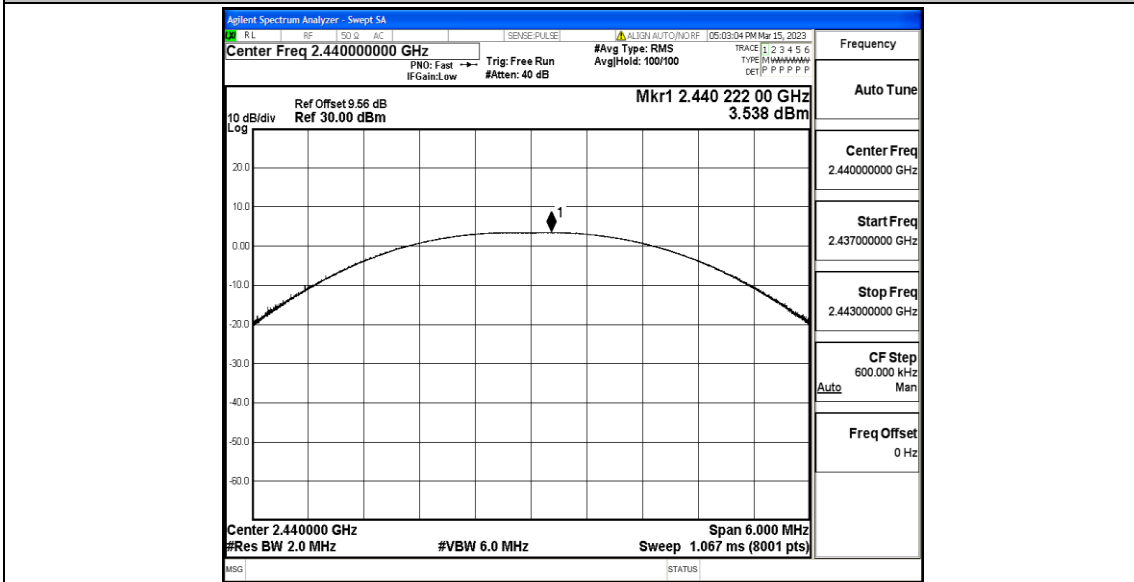
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.18	≤30	PASS
		2440	3.54	≤30	PASS
		2480	1.35	≤30	PASS

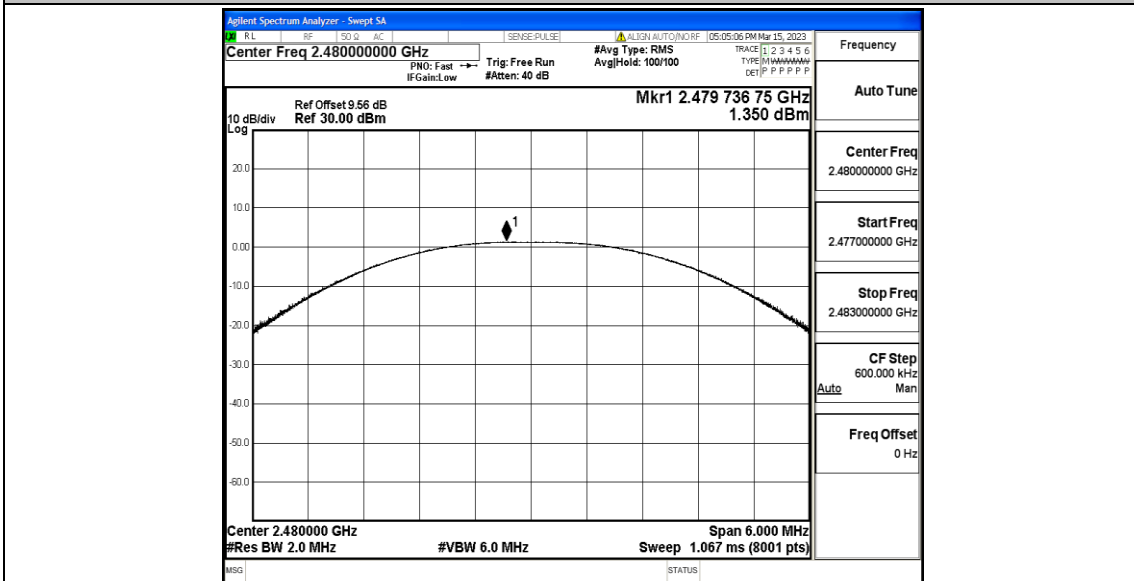
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



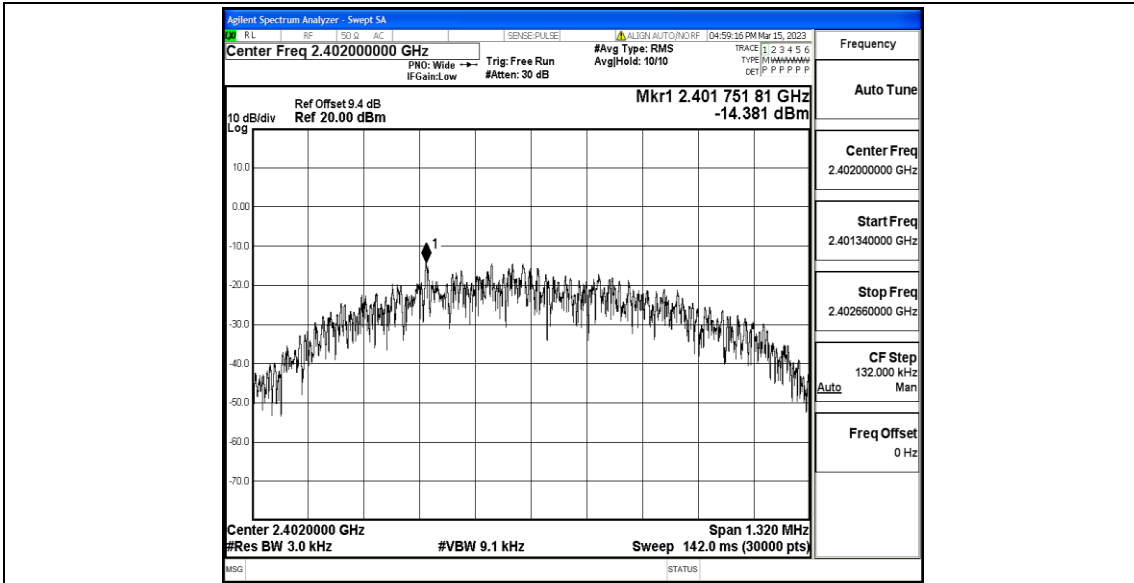
BLE_1M_Ant1_2480

Appendix D: Maximum power spectral density

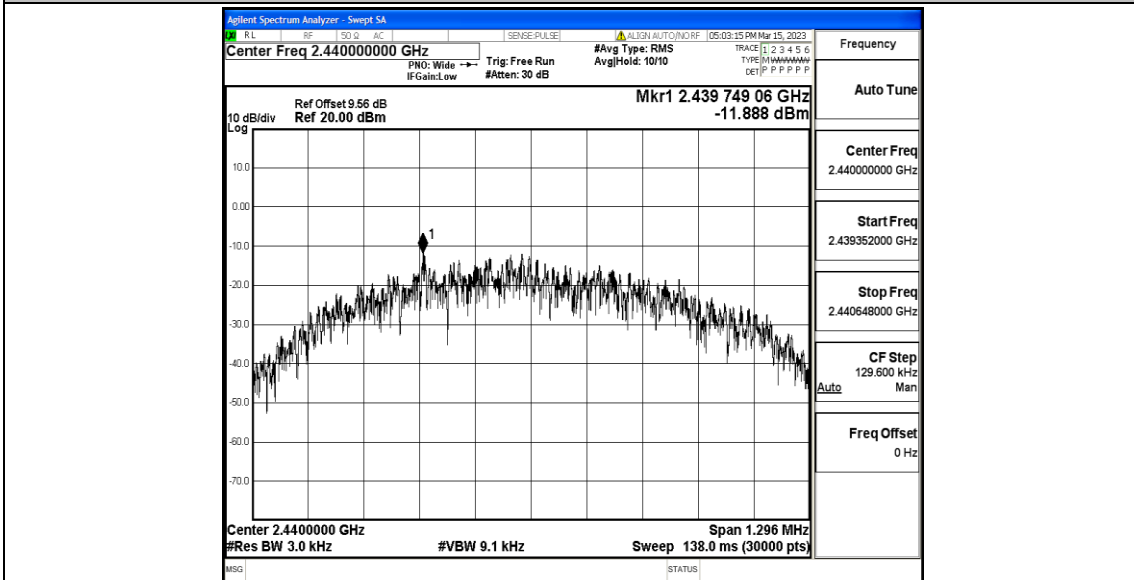
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.38	≤8.00	PASS
		2440	-11.89	≤8.00	PASS
		2480	-14.07	≤8.00	PASS

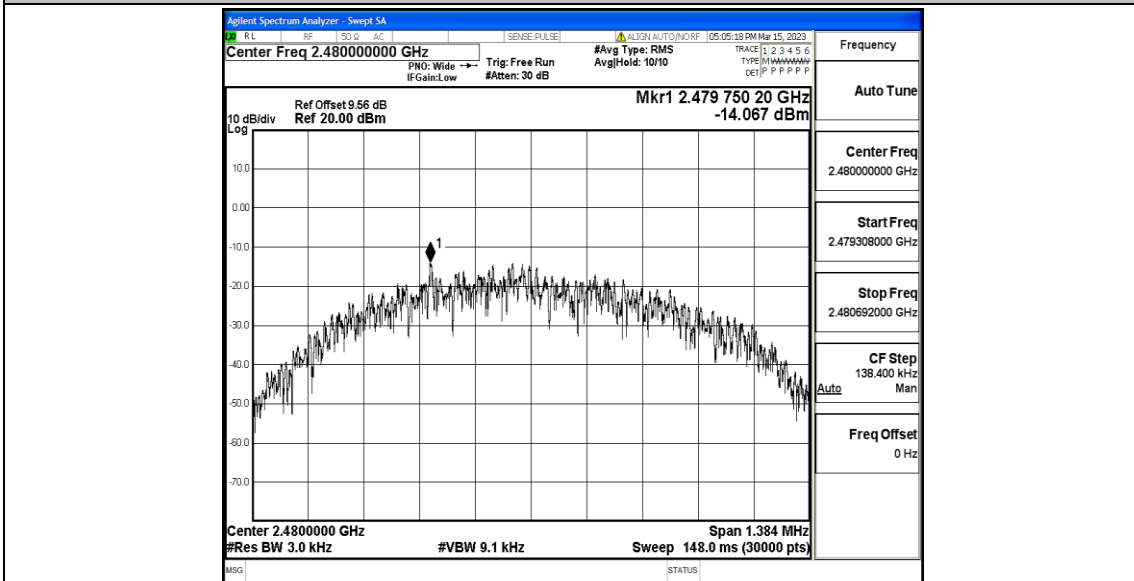
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



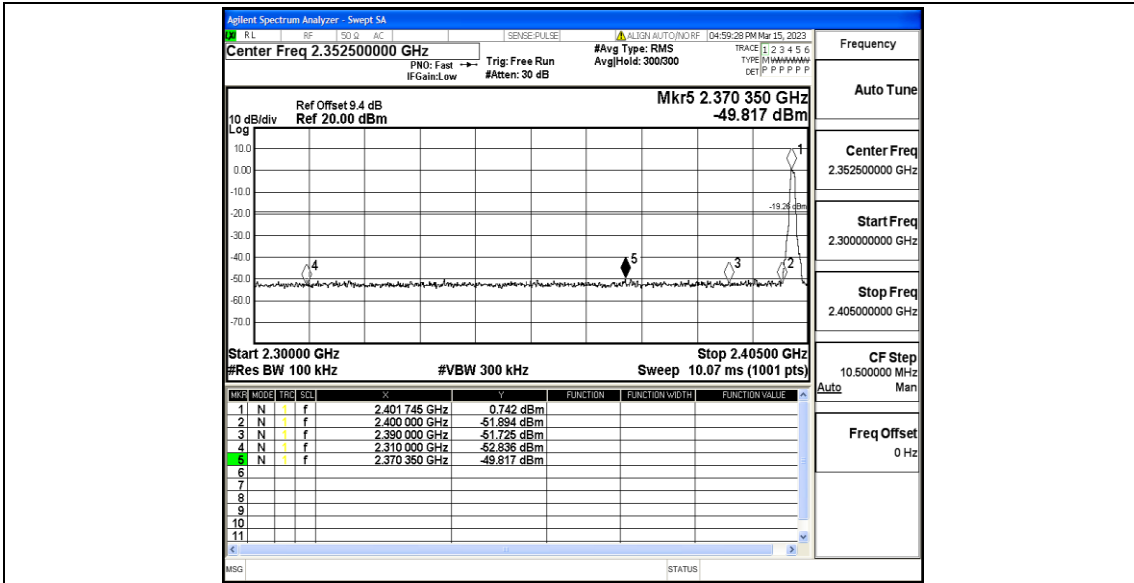
BLE_1M_Ant1_2480

Appendix E: Band edge measurements

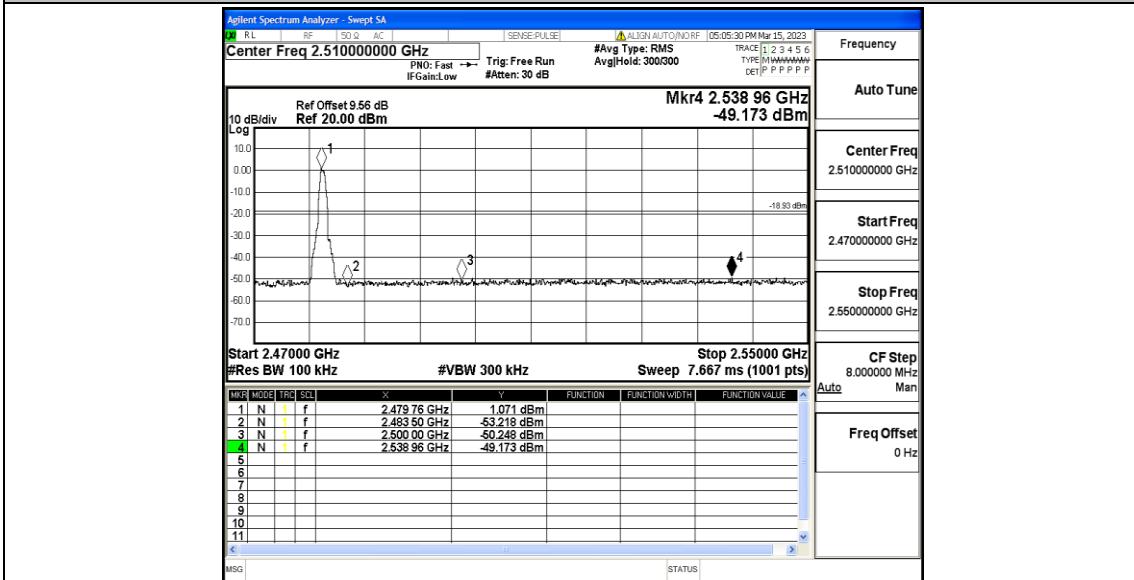
Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.74	-49.82	≤-19.26	PASS
		High	2480	1.07	-49.17	≤-18.93	PASS

Test Graphs



BLE_1M_Ant1_Low_2402



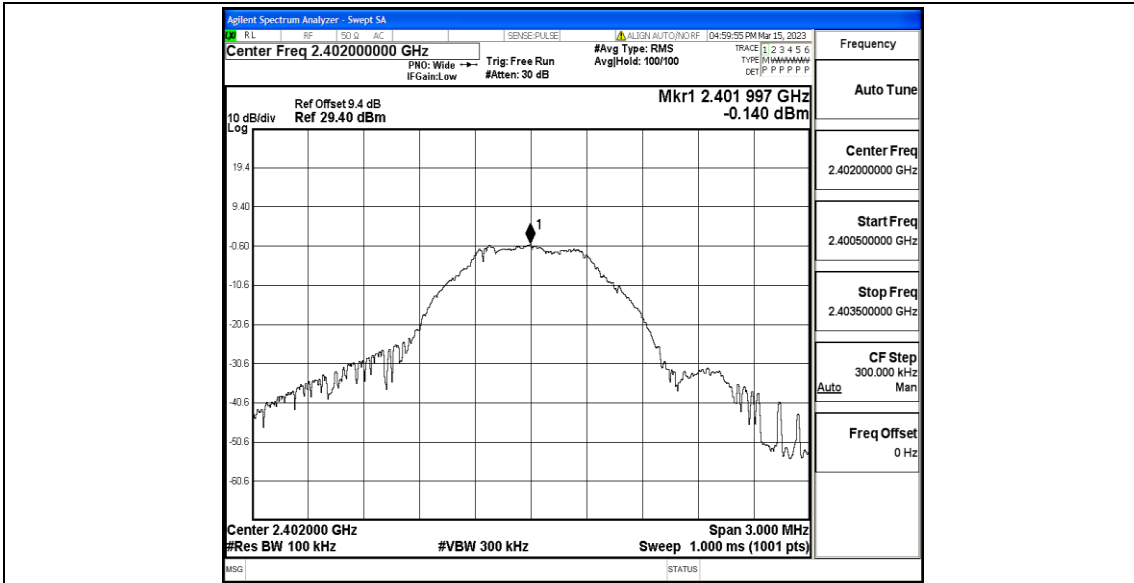
BLE_1M_Ant1_High_2480

Appendix F: Conducted Spurious Emission

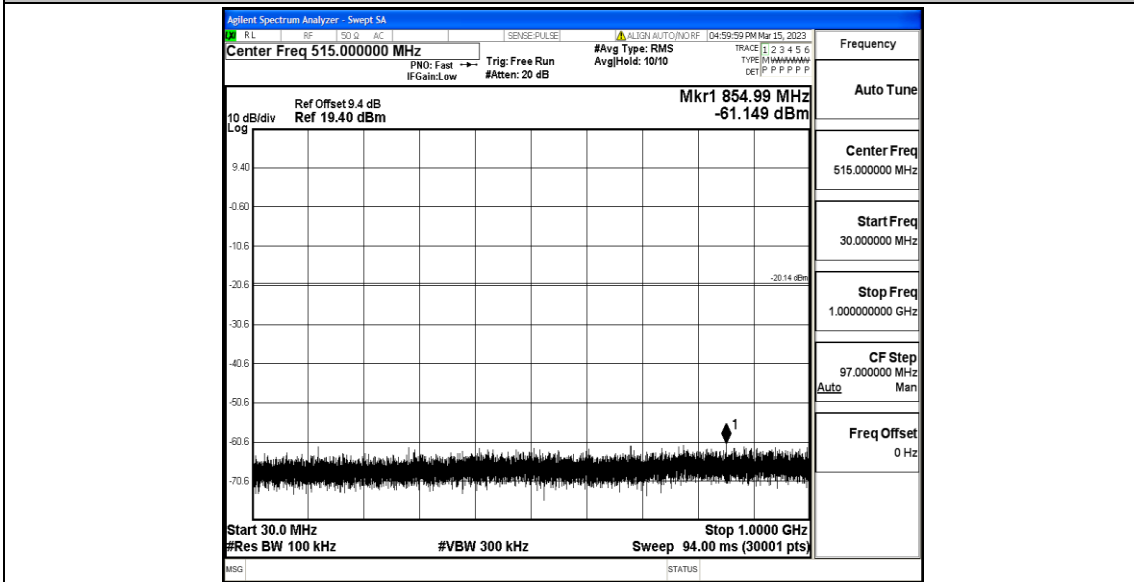
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-61.15	≤-20.14	PASS
			1000~26500	-0.14	-51.69	≤-20.14	PASS
		2440	Reference	3.22	3.22	---	PASS
			30~1000	3.22	-60.44	≤-16.78	PASS
			1000~26500	3.22	-50.4	≤-16.78	PASS
		2480	Reference	0.69	0.69	---	PASS
			30~1000	0.69	-60.15	≤-19.31	PASS
			1000~26500	0.69	-50.13	≤-19.31	PASS

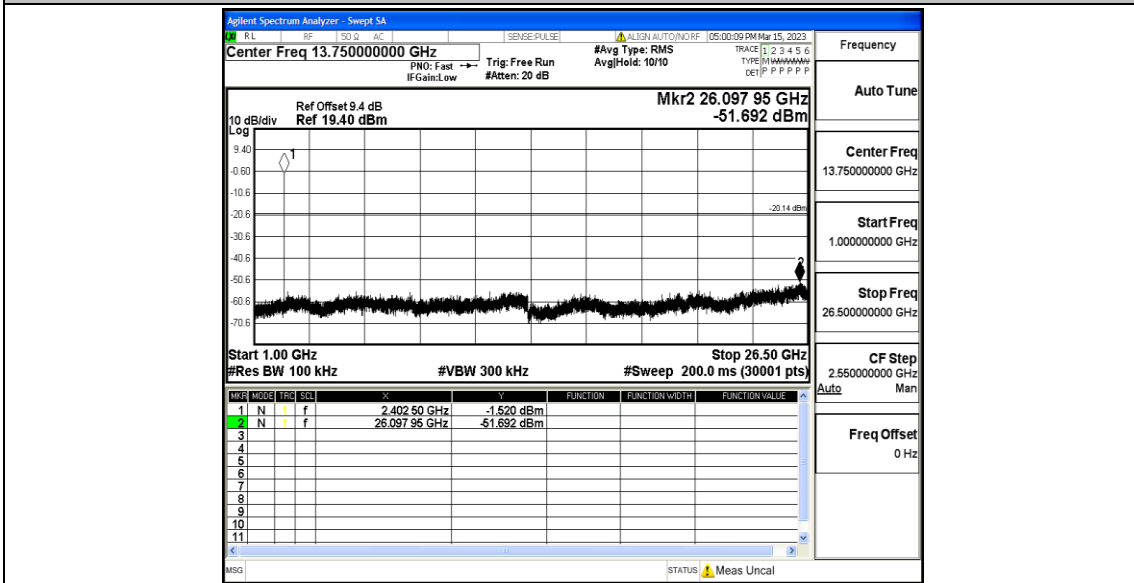
Test Graphs



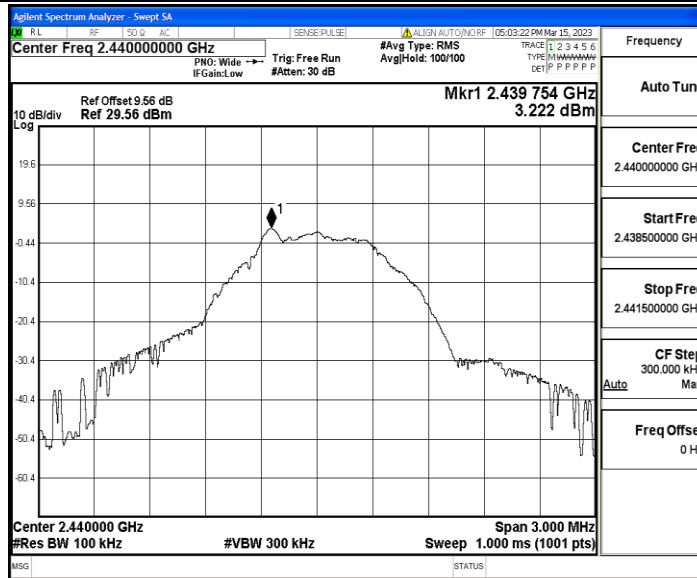
BLE_1M_Ant1_2402_0~Reference



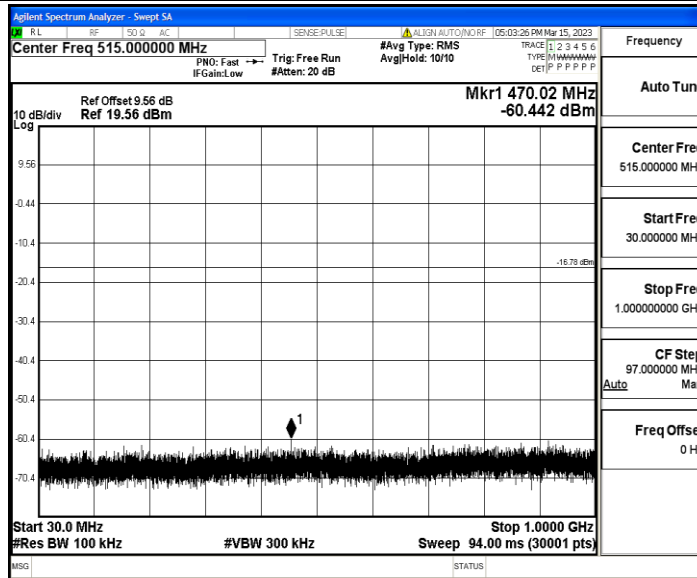
BLE_1M_Ant1_2402_30~1000



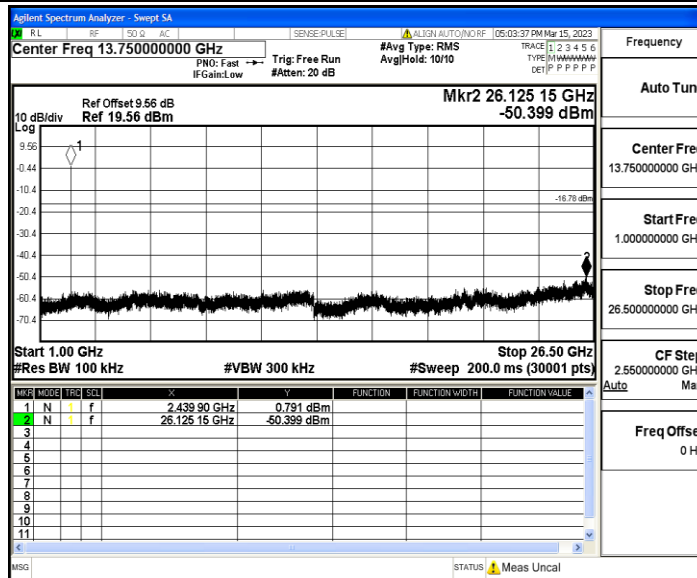
BLE_1M_Ant1_2402_1000~26500



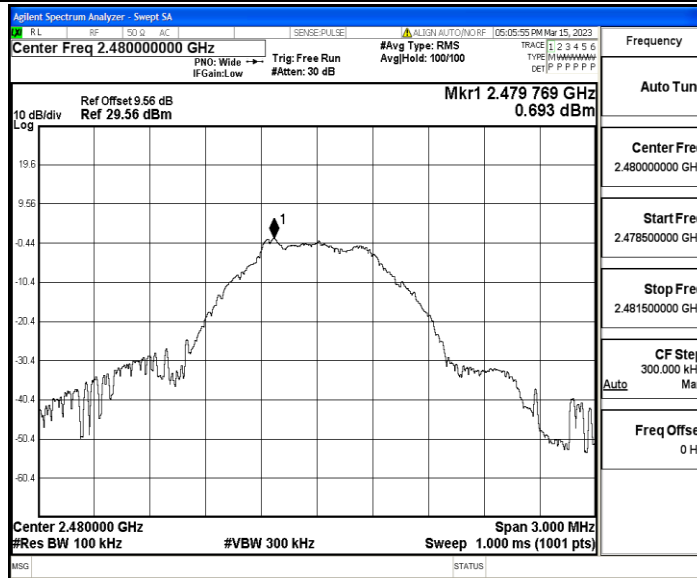
BLE_1M_Ant1_2440_0~Reference



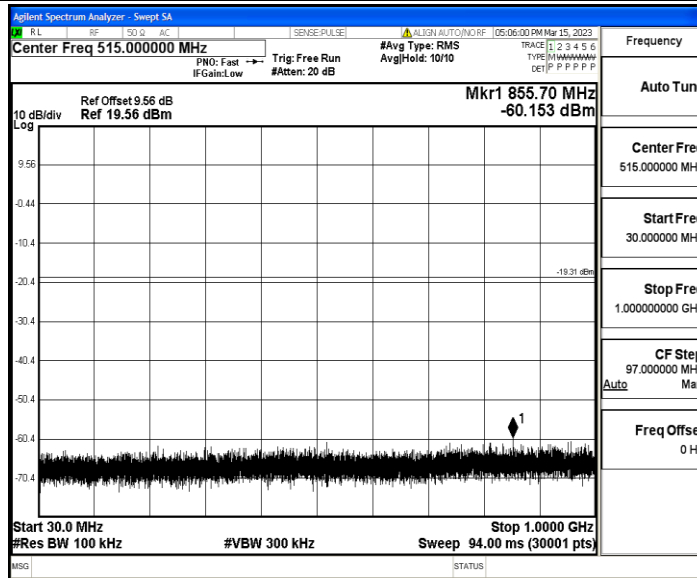
BLE_1M_Ant1_2440_30~1000



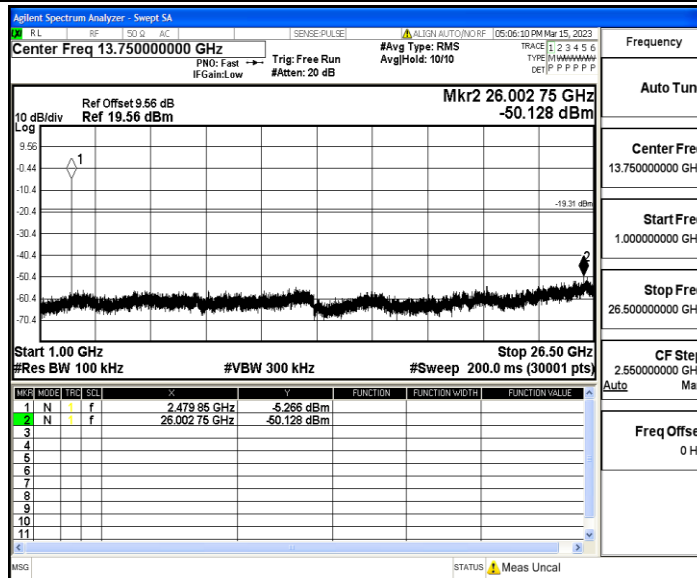
BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



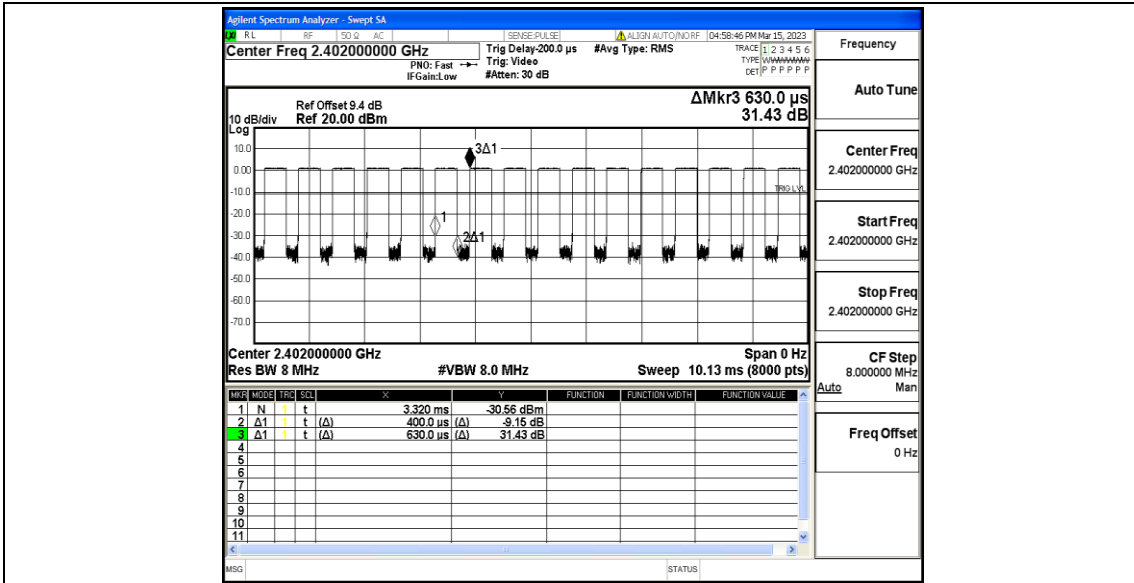
BLE_1M_Ant1_2480_1000~26500

Appendix G: Duty Cycle

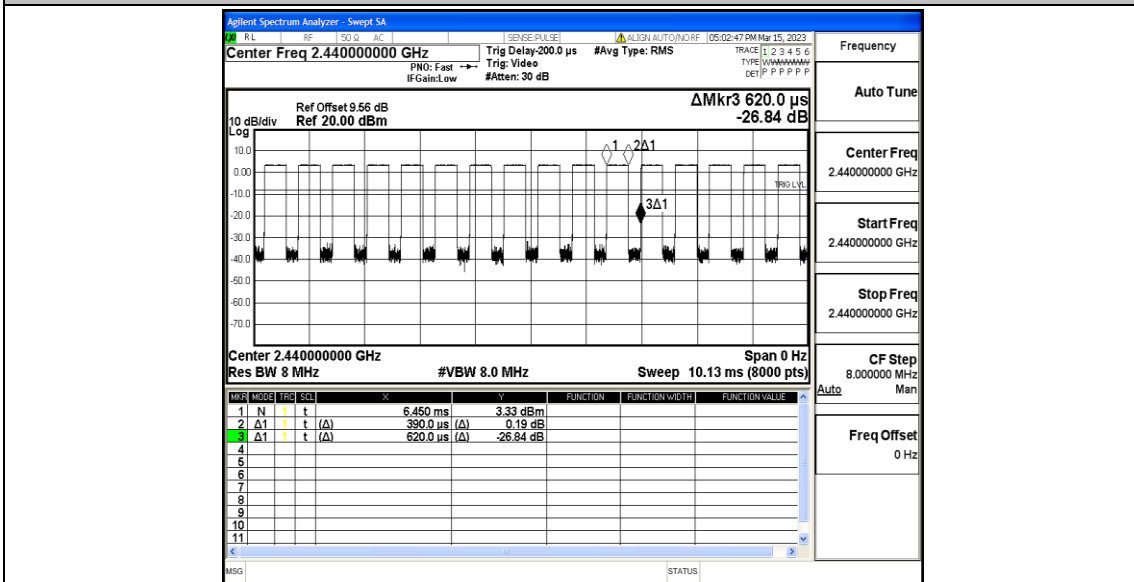
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.40	0.63	63.49	2.50
		2440	0.39	0.62	62.90	2.56
		2480	0.39	0.62	62.90	2.56

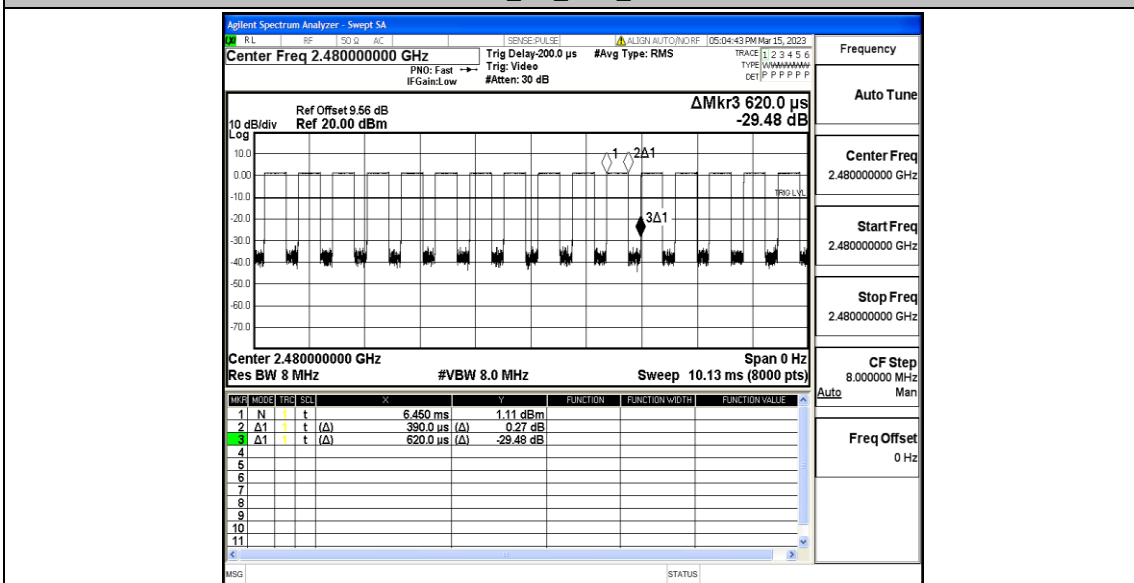
Test Graphs



BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

Appendix H: Emissions in Restricted Bands

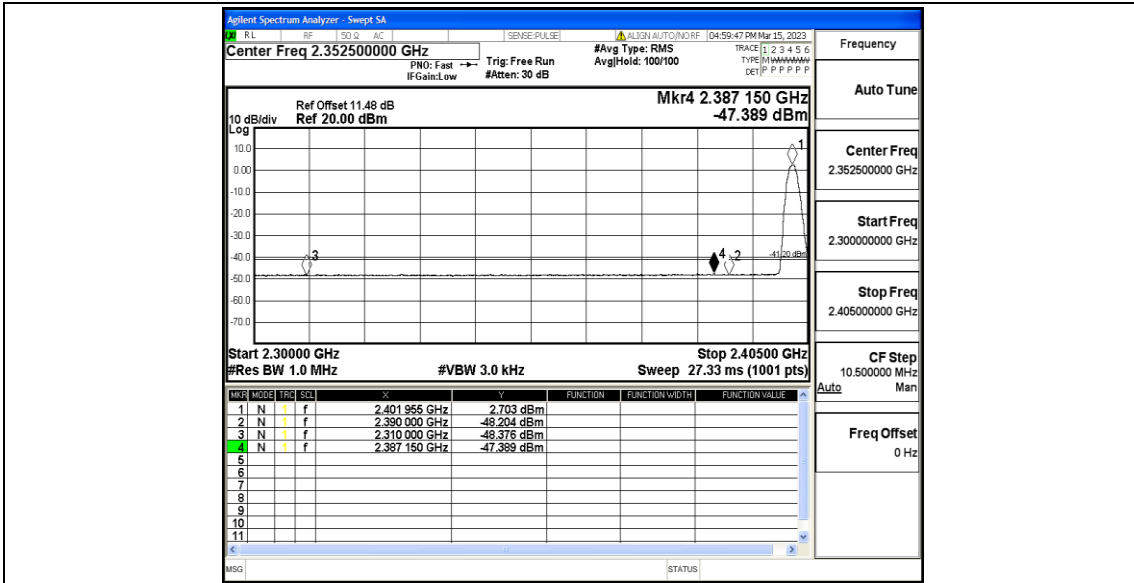
Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.38	≤-41.20	PASS
				AV	2387.150	-47.39	≤-41.20	PASS
				AV	2390.000	-48.2	≤-41.20	PASS
				Peak	2310.000	-42.16	≤-21.20	PASS
				Peak	2354.600	-38.55	≤-21.20	PASS
				Peak	2390.000	-40.96	≤-21.20	PASS
		High	2480	AV	2483.500	-46.93	≤-41.20	PASS
				AV	2483.520	-46.93	≤-41.20	PASS
				AV	2500.000	-47.21	≤-41.20	PASS
				Peak	2483.500	-41.47	≤-21.20	PASS
				Peak	2492.160	-38.43	≤-21.20	PASS
				Peak	2500.000	-40.09	≤-21.20	PASS

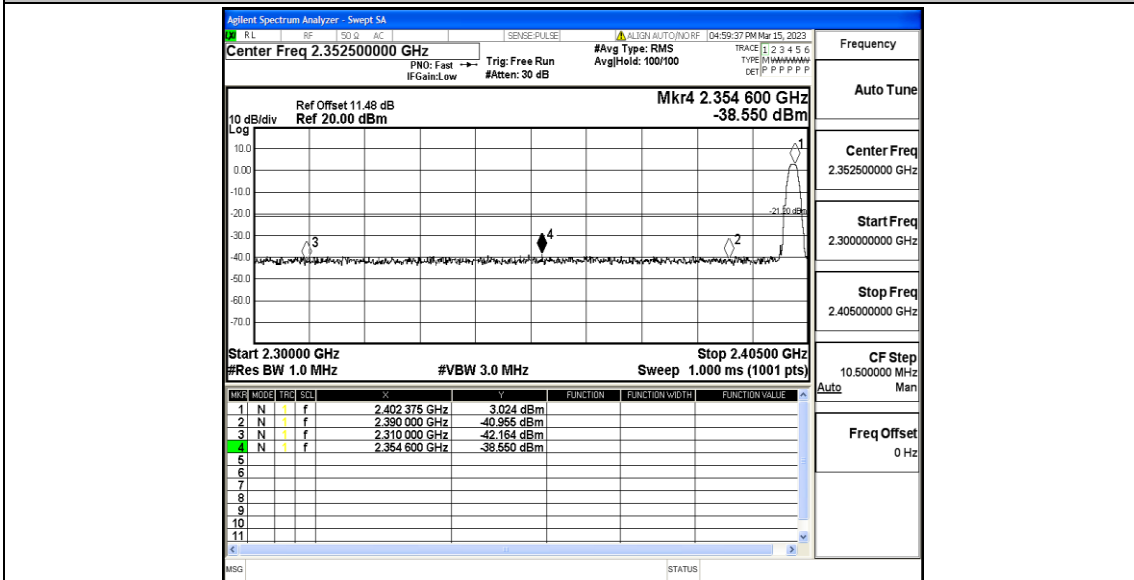
Note:

1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
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.

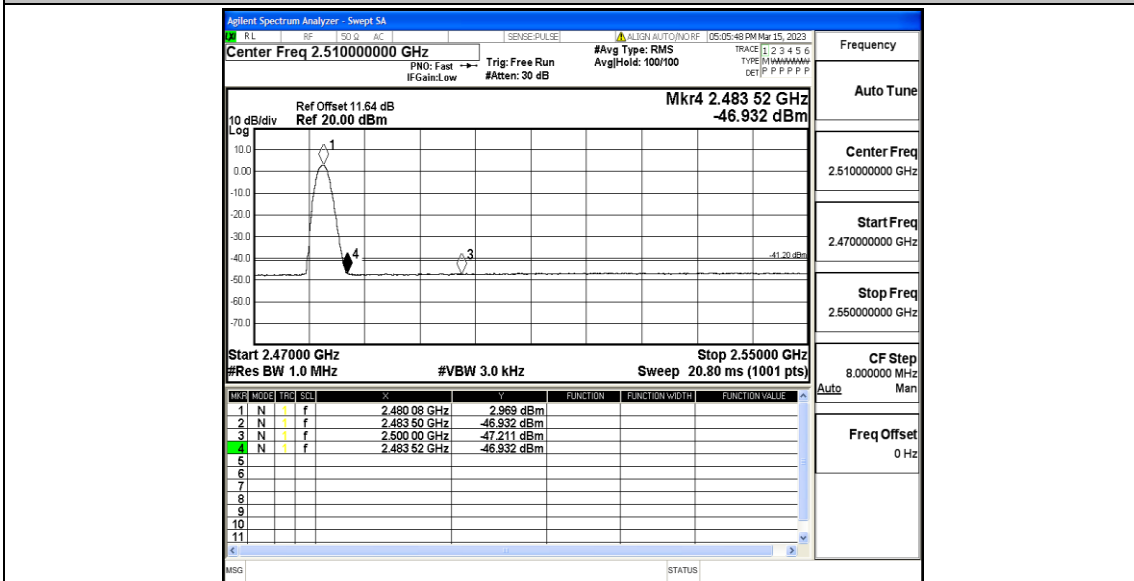
Test Graphs



BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV

