

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

Product Name: 4K OTT BOX

Trade Mark: N/A

Test Model: SN6BKHE

FCC ID: 2AOVU-SN6BKHE

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

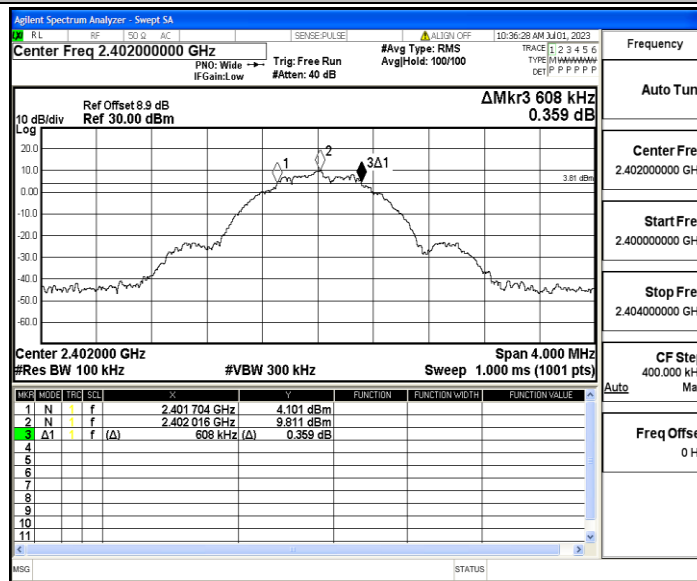
Appendix A: DTS Bandwidth

Test Result

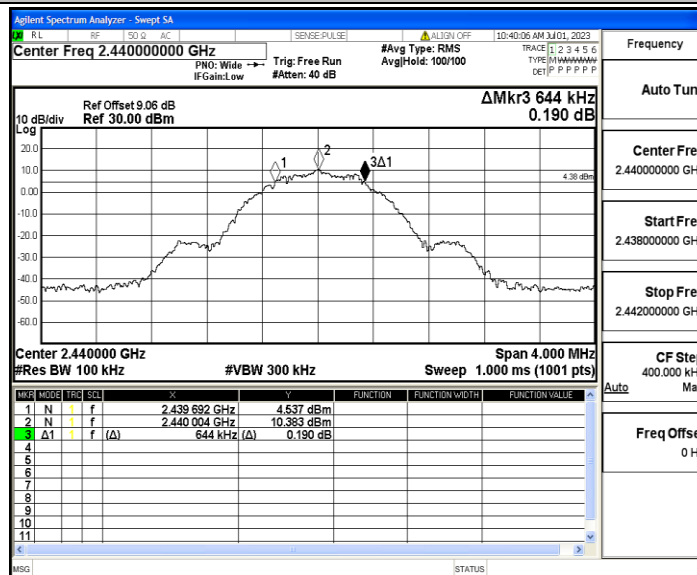
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.608	2401.704	2402.312	0.5	PASS
		2440	0.644	2439.692	2440.336	0.5	PASS
		2480	0.680	2479.660	2480.340	0.5	PASS

Test Graphs

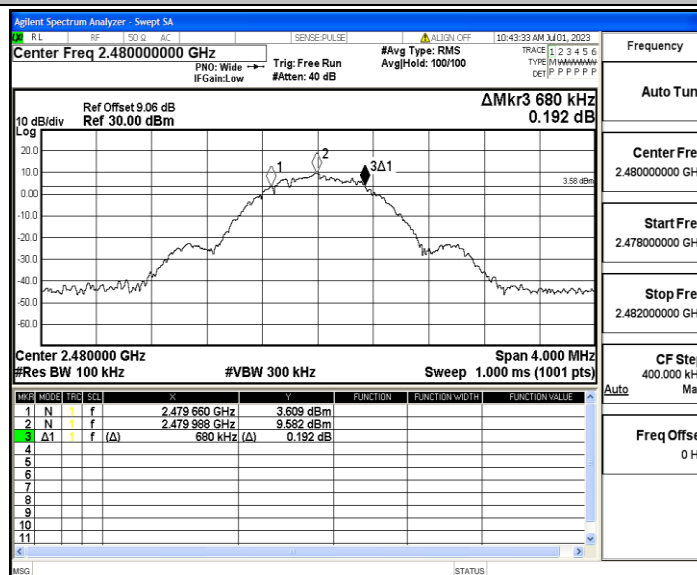
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



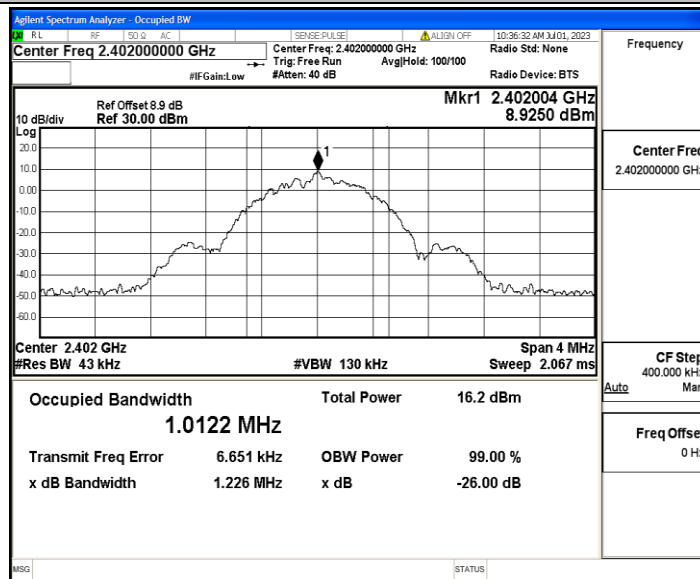
Appendix B: Occupied Channel Bandwidth

Test Result

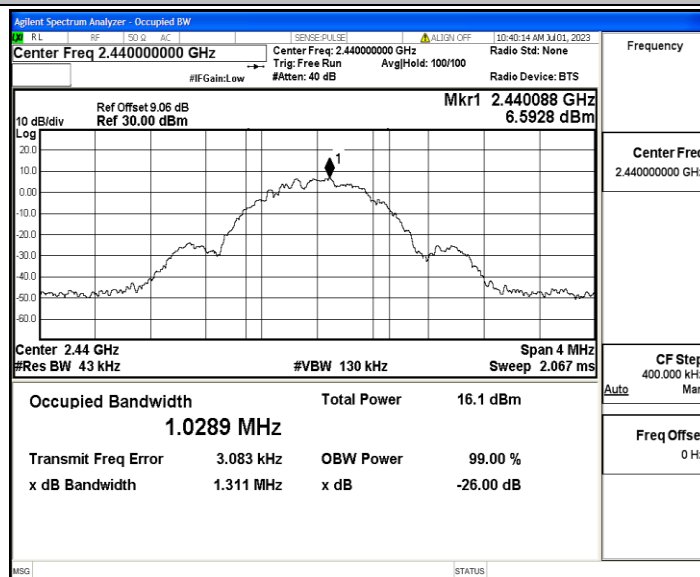
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0122	2401.5006	2402.5128	---	---
		2440	1.0289	2439.4886	2440.5175	---	---
		2480	1.0174	2479.4975	2480.5149	---	---

Test Graphs

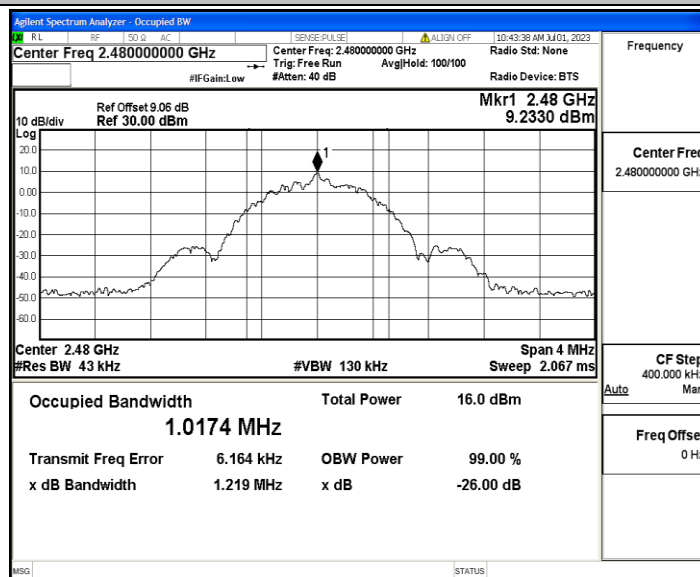
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



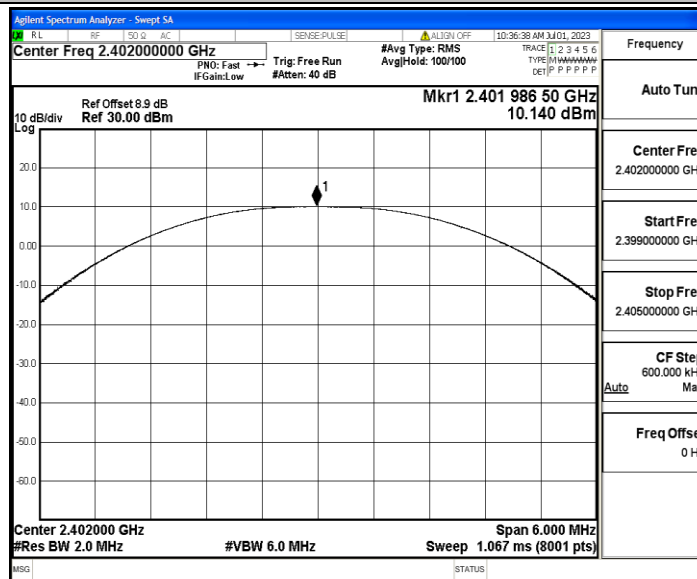
Appendix C: Maximum Peak conducted output power

Test Result

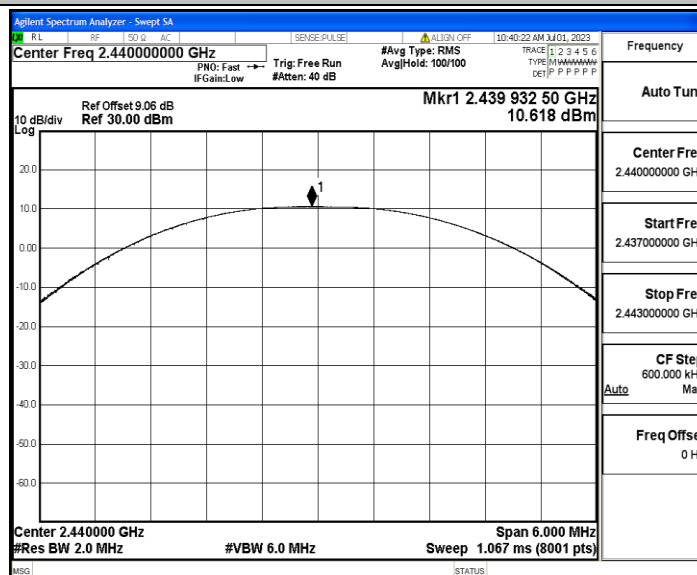
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	10.14	≤30	PASS
		2440	10.62	≤30	PASS
		2480	10.21	≤30	PASS

Test Graphs

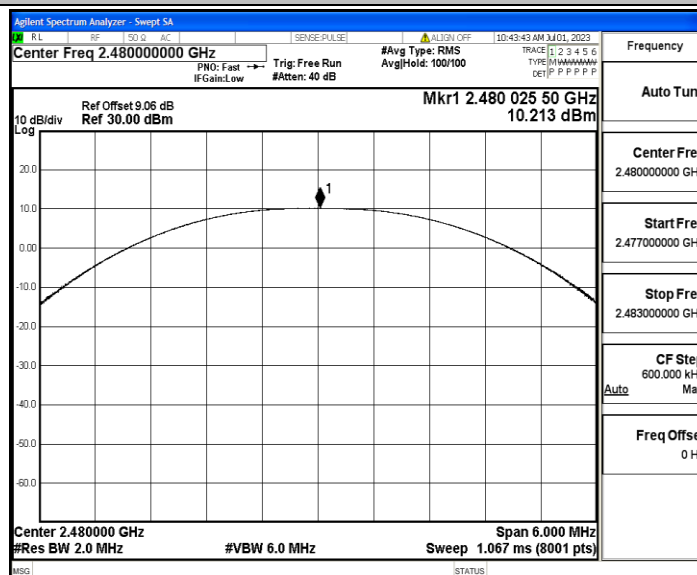
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



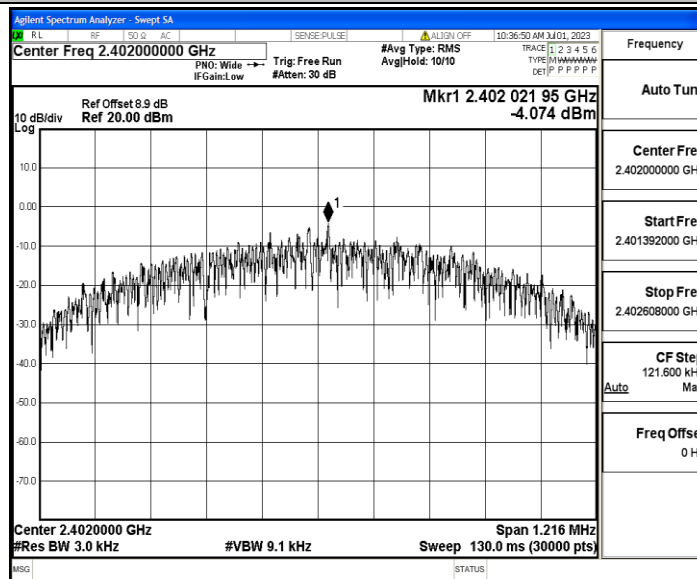
Appendix D: Maximum power spectral density

Test Result

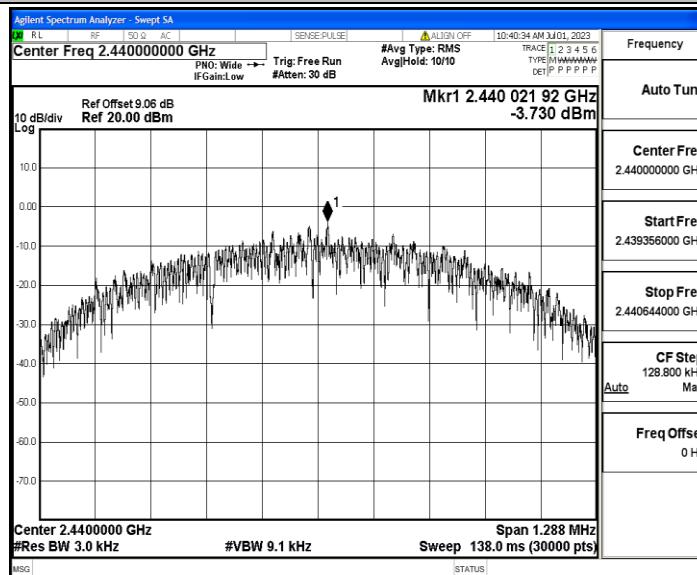
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-4.07	≤8.00	PASS
		2440	-3.73	≤8.00	PASS
		2480	-4.38	≤8.00	PASS

Test Graphs

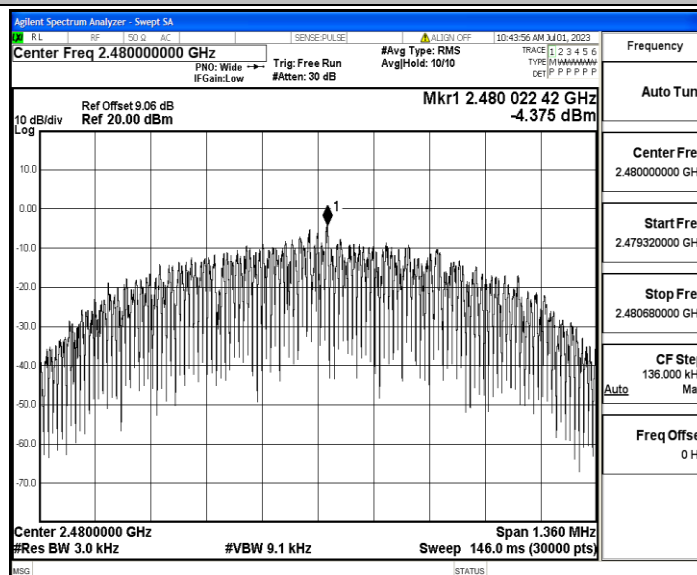
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

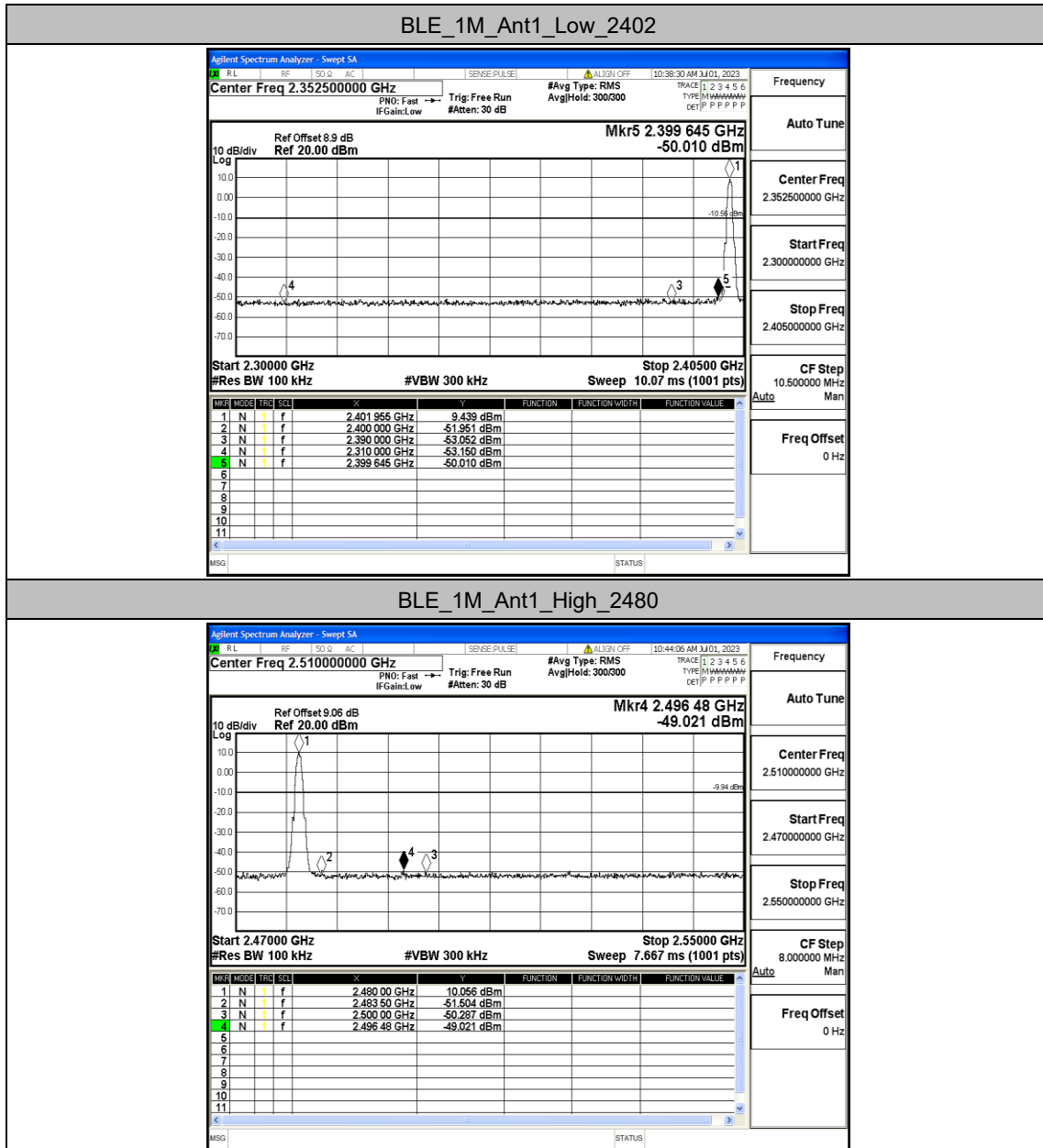


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	9.44	-50.01	≤-10.56	PASS
		High	2480	10.06	-49.02	≤-9.94	PASS

Test Graphs



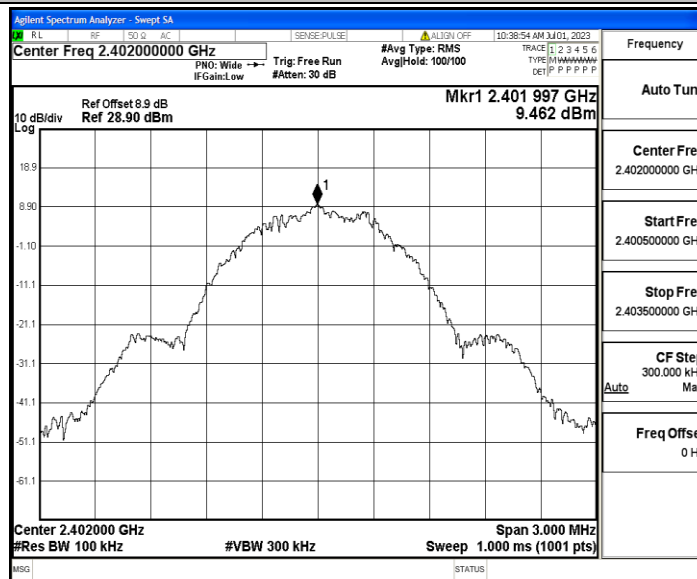
Appendix F: Conducted Spurious Emission

Test Result

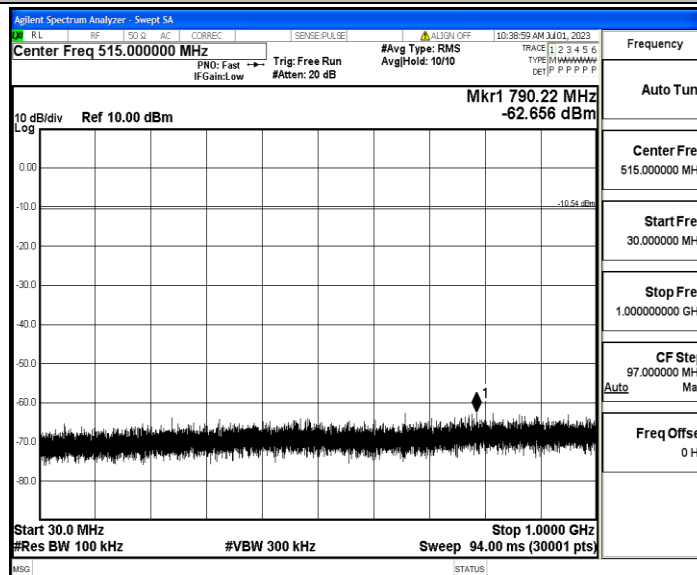
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	9.46	9.46	---	PASS
			30~1000	9.46	-62.66	≤-10.54	PASS
			1000~26500	9.46	-43.45	≤-10.54	PASS
		2440	Reference	10.27	10.27	---	PASS
			30~1000	10.27	-63.02	≤-9.73	PASS
			1000~26500	10.27	-43.12	≤-9.73	PASS
		2480	Reference	10.02	10.02	---	PASS
			30~1000	10.02	-62.81	≤-9.98	PASS
			1000~26500	10.02	-49.03	≤-9.98	PASS

Test Graphs

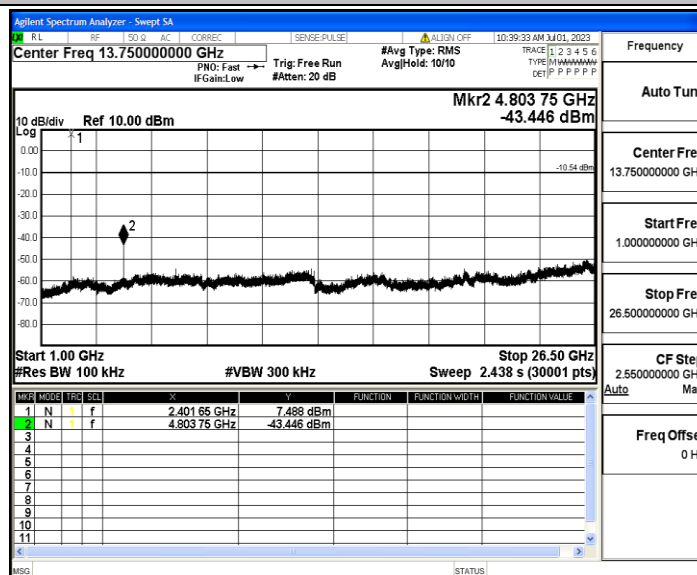
BLE_1M_Ant1_2402_0~Reference



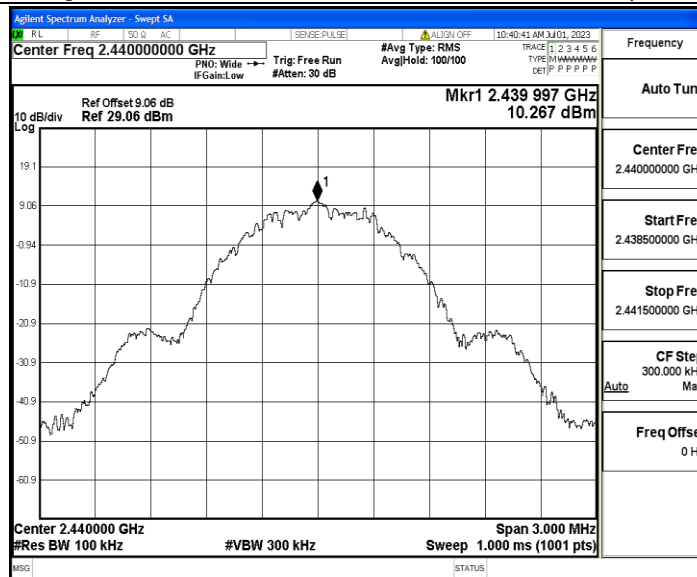
BLE_1M_Ant1_2402_30~1000



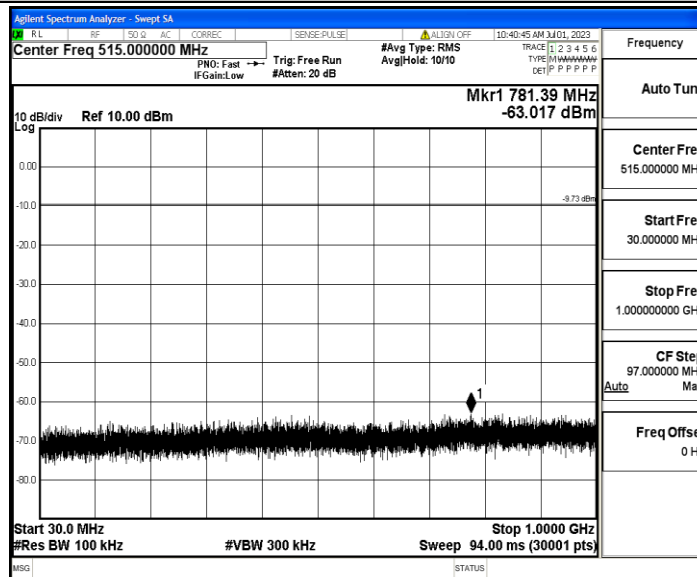
BLE_1M_Ant1_2402_1000~26500



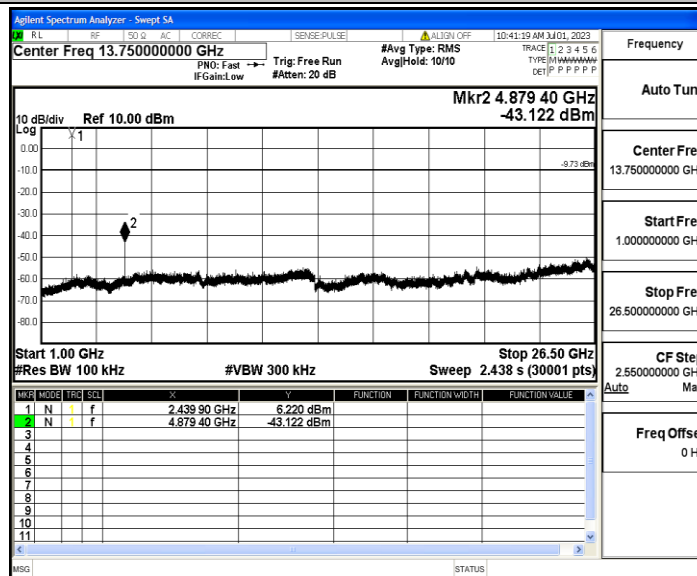
BLE_1M_Ant1_2440_0~Reference



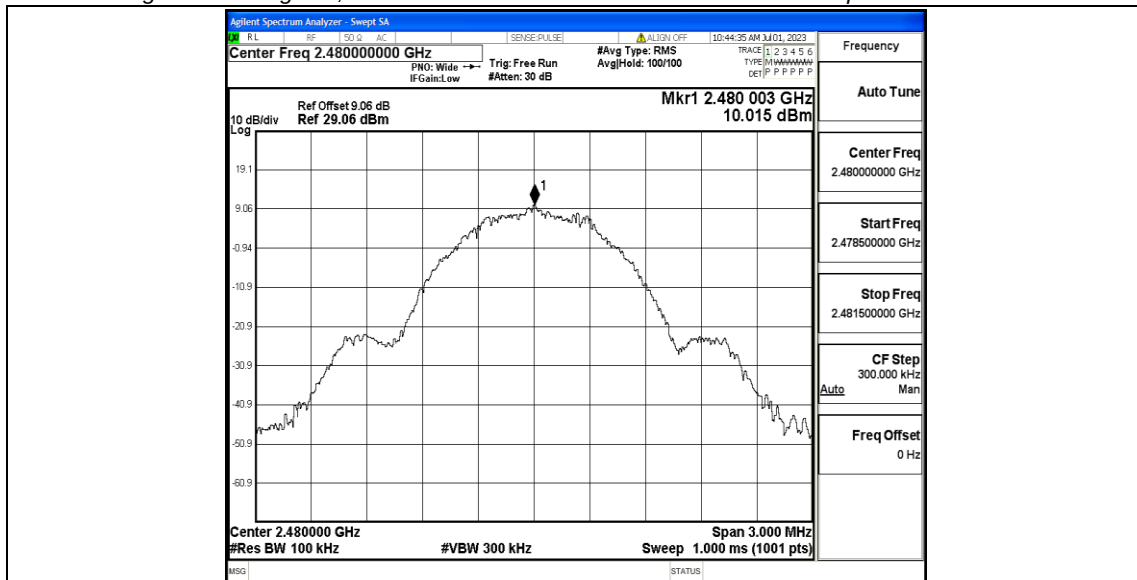
BLE_1M_Ant1_2440_30~1000



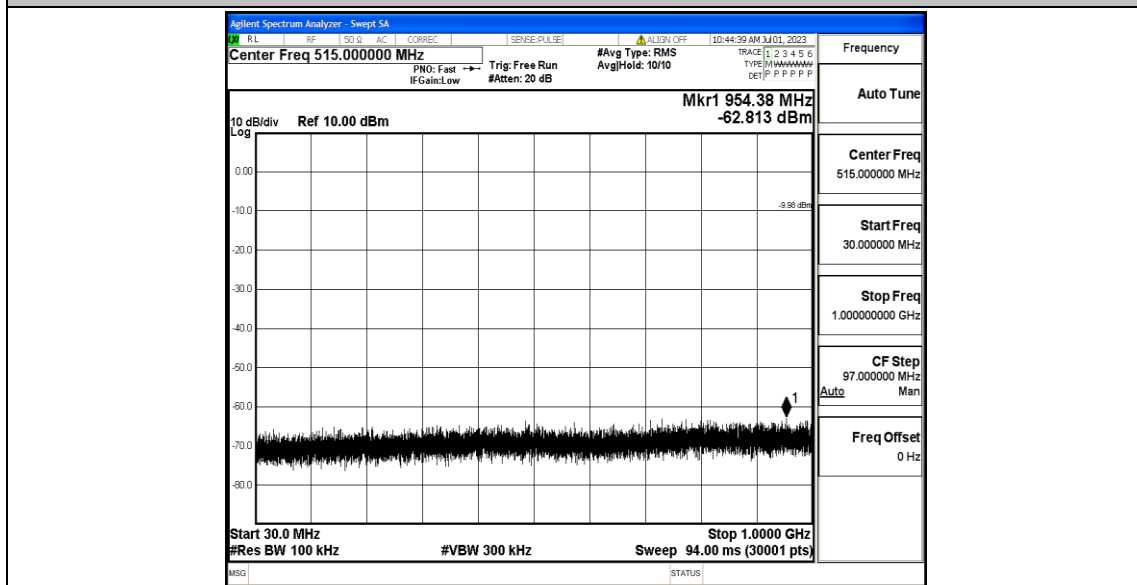
BLE_1M_Ant1_2440_1000~26500



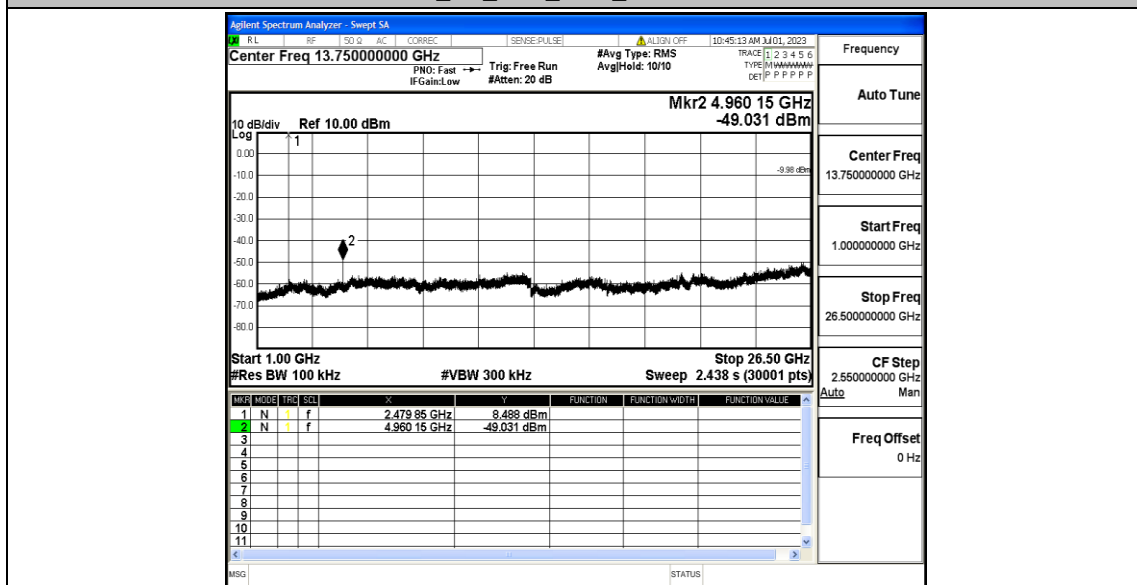
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

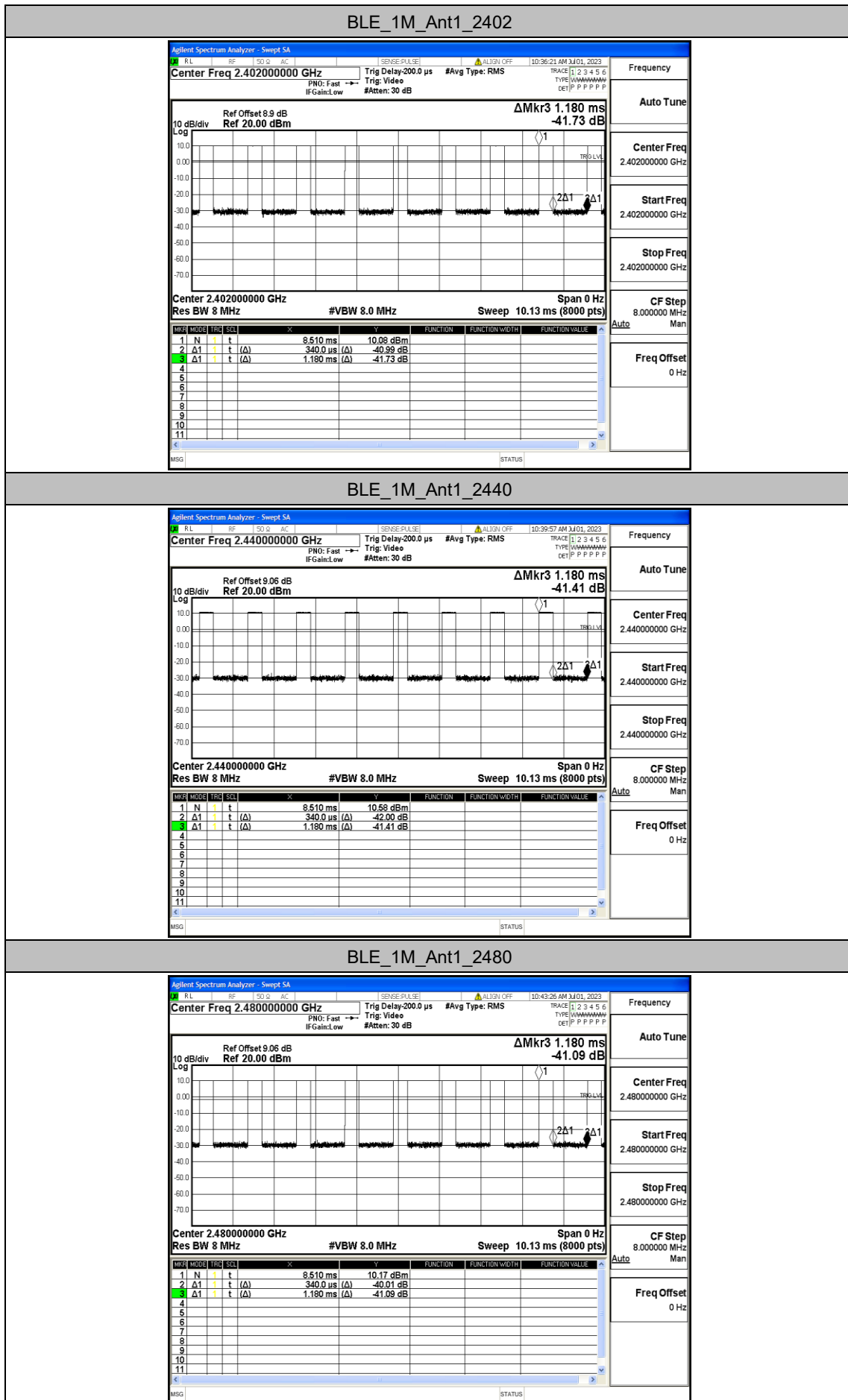


Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.34	1.18	28.81	2.94
		2440	0.34	1.18	28.81	2.94
		2480	0.34	1.18	28.81	2.94

Test Graphs



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	-48.83	≤-41.20	PASS
				AV	2383.790	-47.84	≤-41.20	PASS
				AV	2390.000	-48.09	≤-41.20	PASS
				Peak	2310.000	-41.62	≤-21.20	PASS
				Peak	2368.880	-38.82	≤-21.20	PASS
				Peak	2390.000	-41.64	≤-21.20	PASS
		High	2480	AV	2483.500	-43.79	≤-41.20	PASS
				AV	2483.520	-43.79	≤-41.20	PASS
				AV	2500.000	-47.85	≤-41.20	PASS
				Peak	2483.500	-40.79	≤-21.20	PASS
				Peak	2494.720	-37.96	≤-21.20	PASS
				Peak	2500.000	-40.17	≤-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

