

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

Product Name: SET TOP BOX

Trade Mark: STAVIX

Test Model: MK-OM02-AM

FCC ID: 2A4GF-AO908AB

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

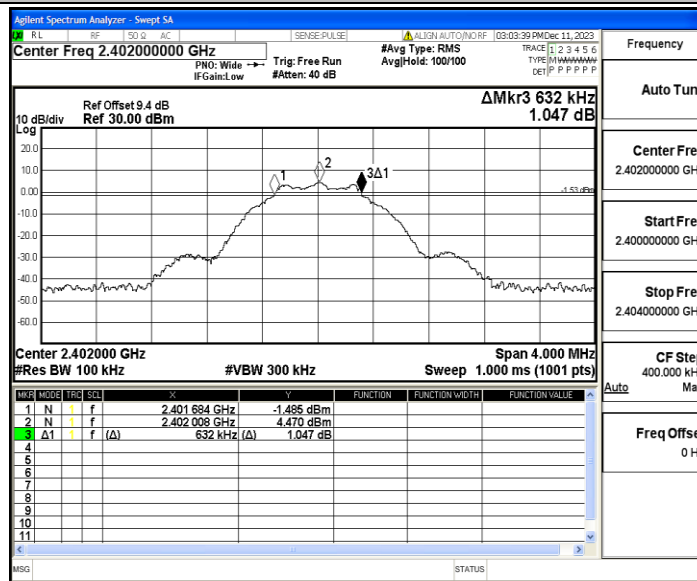
Appendix A: DTS Bandwidth

Test Result

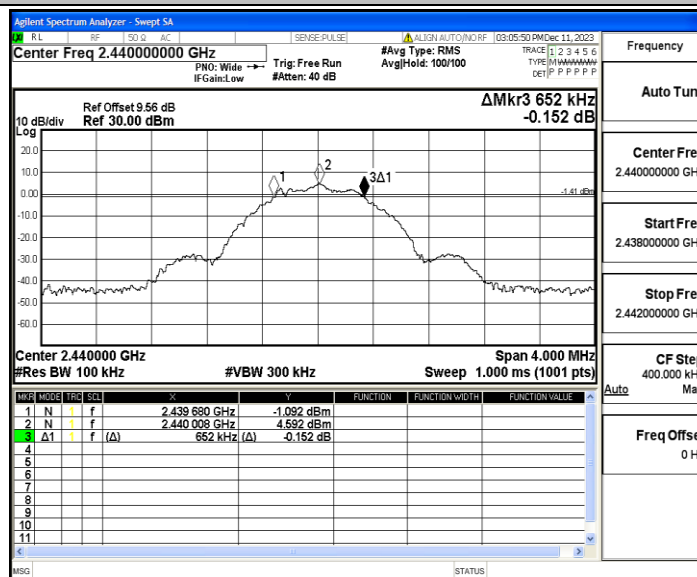
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.632	2401.684	2402.316	0.5	PASS
		2440	0.652	2439.680	2440.332	0.5	PASS
		2480	0.688	2479.660	2480.348	0.5	PASS

Test Graphs

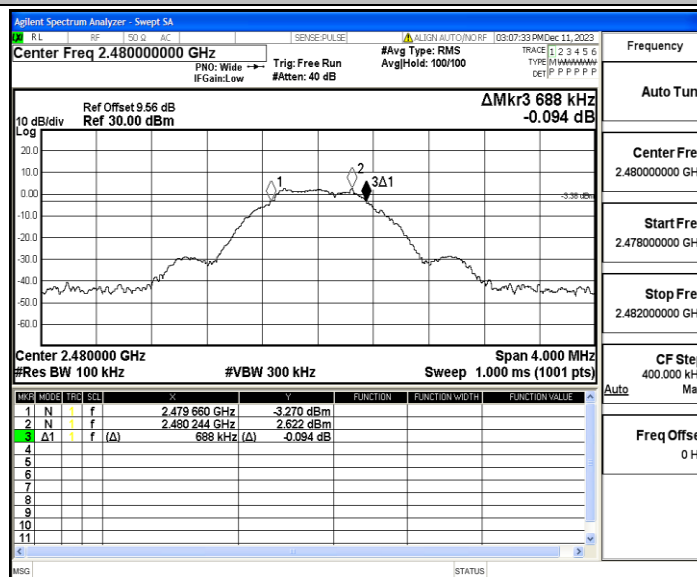
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



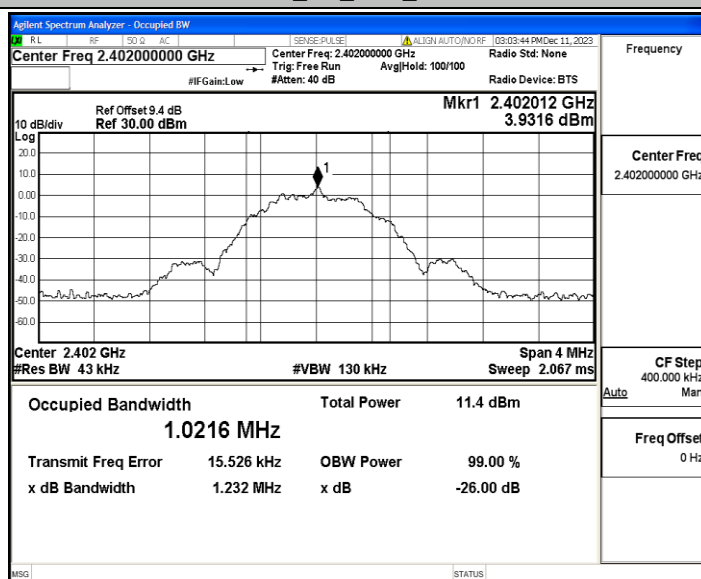
Appendix B: Occupied Channel Bandwidth

Test Result

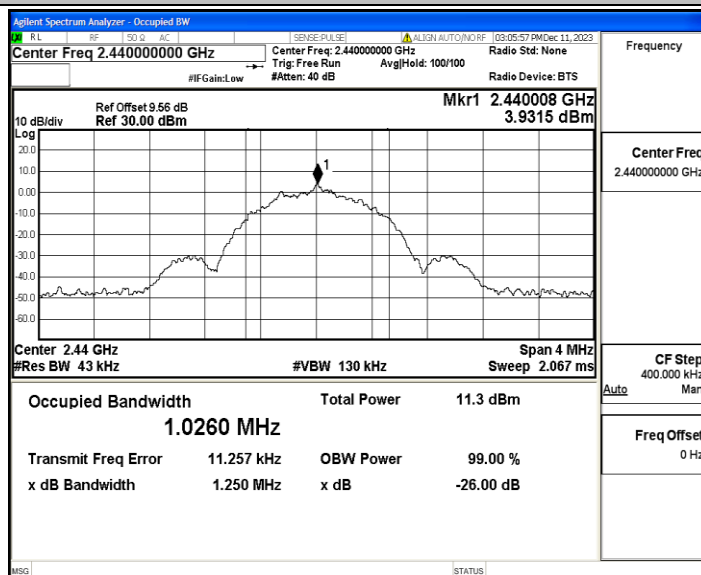
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0216	2401.5047	2402.5263	---	---
		2440	1.0260	2439.4983	2440.5243	---	---
		2480	1.0278	2479.5002	2480.5280	---	---

Test Graphs

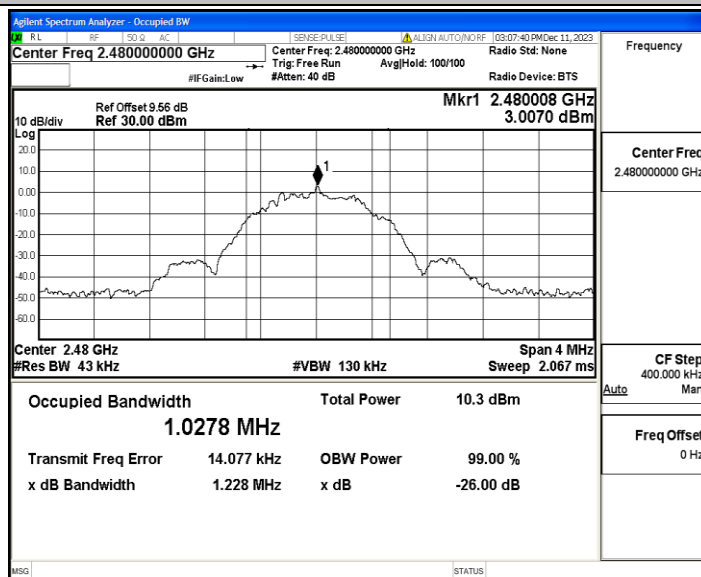
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



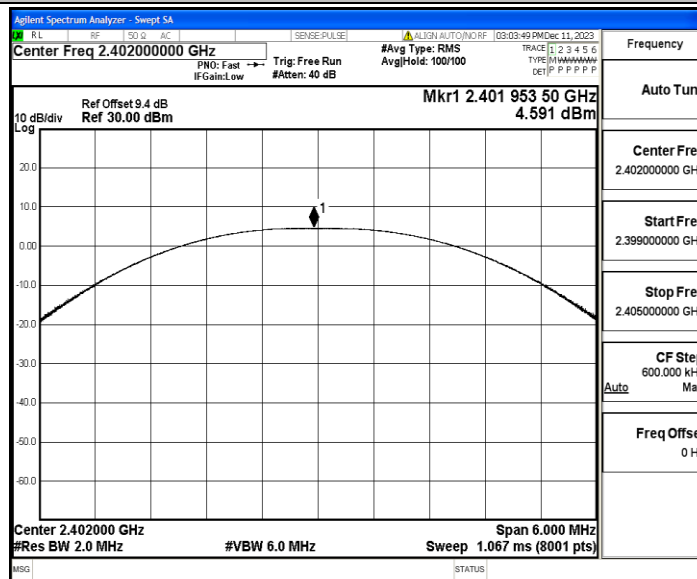
Appendix C: Maximum Peak conducted output power

Test Result

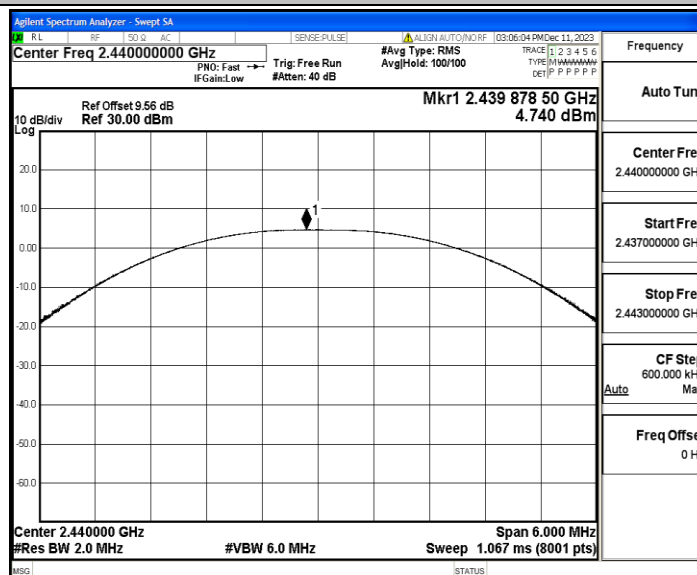
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.59	≤30	PASS
		2440	4.74	≤30	PASS
		2480	3.74	≤30	PASS

Test Graphs

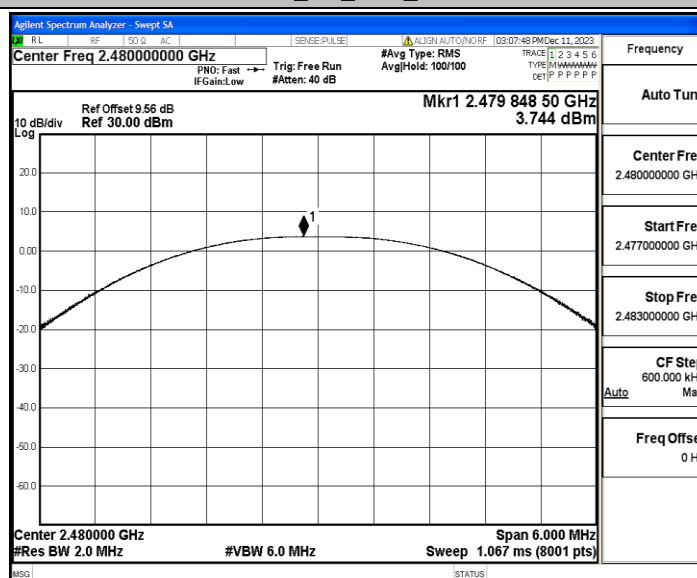
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



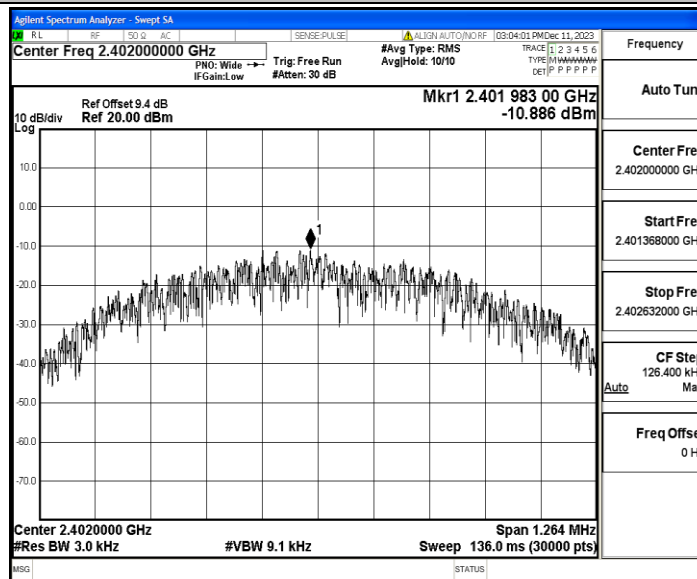
Appendix D: Maximum power spectral density

Test Result

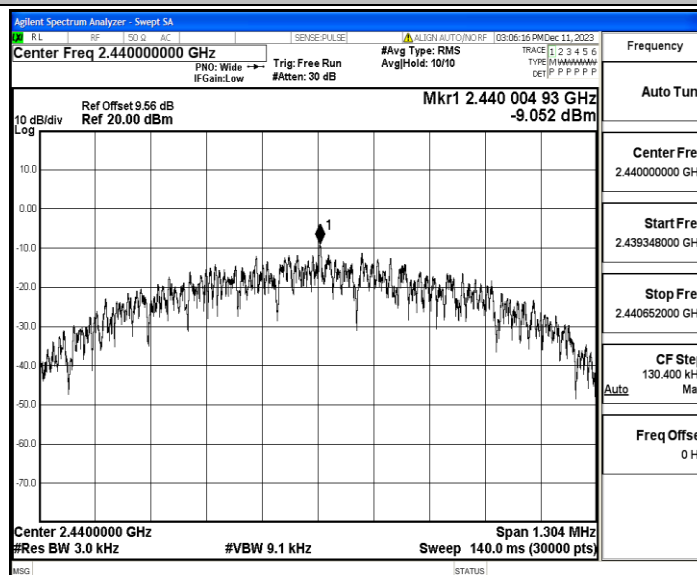
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-10.89	≤8.00	PASS
		2440	-9.05	≤8.00	PASS
		2480	-11.96	≤8.00	PASS

Test Graphs

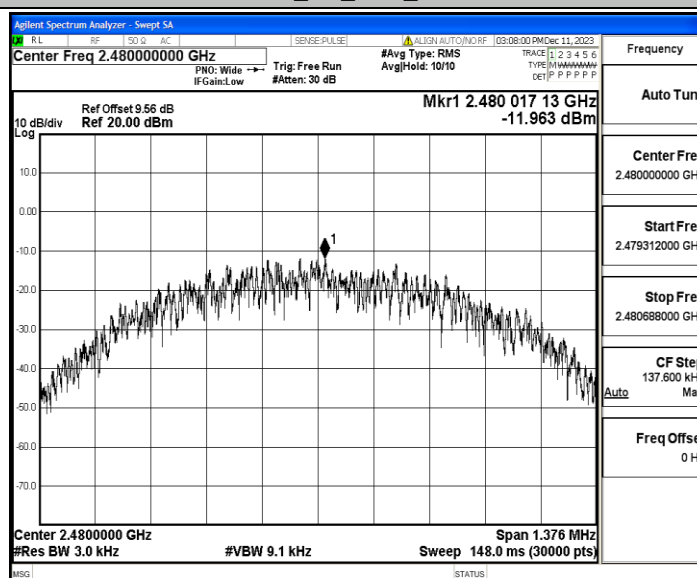
BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

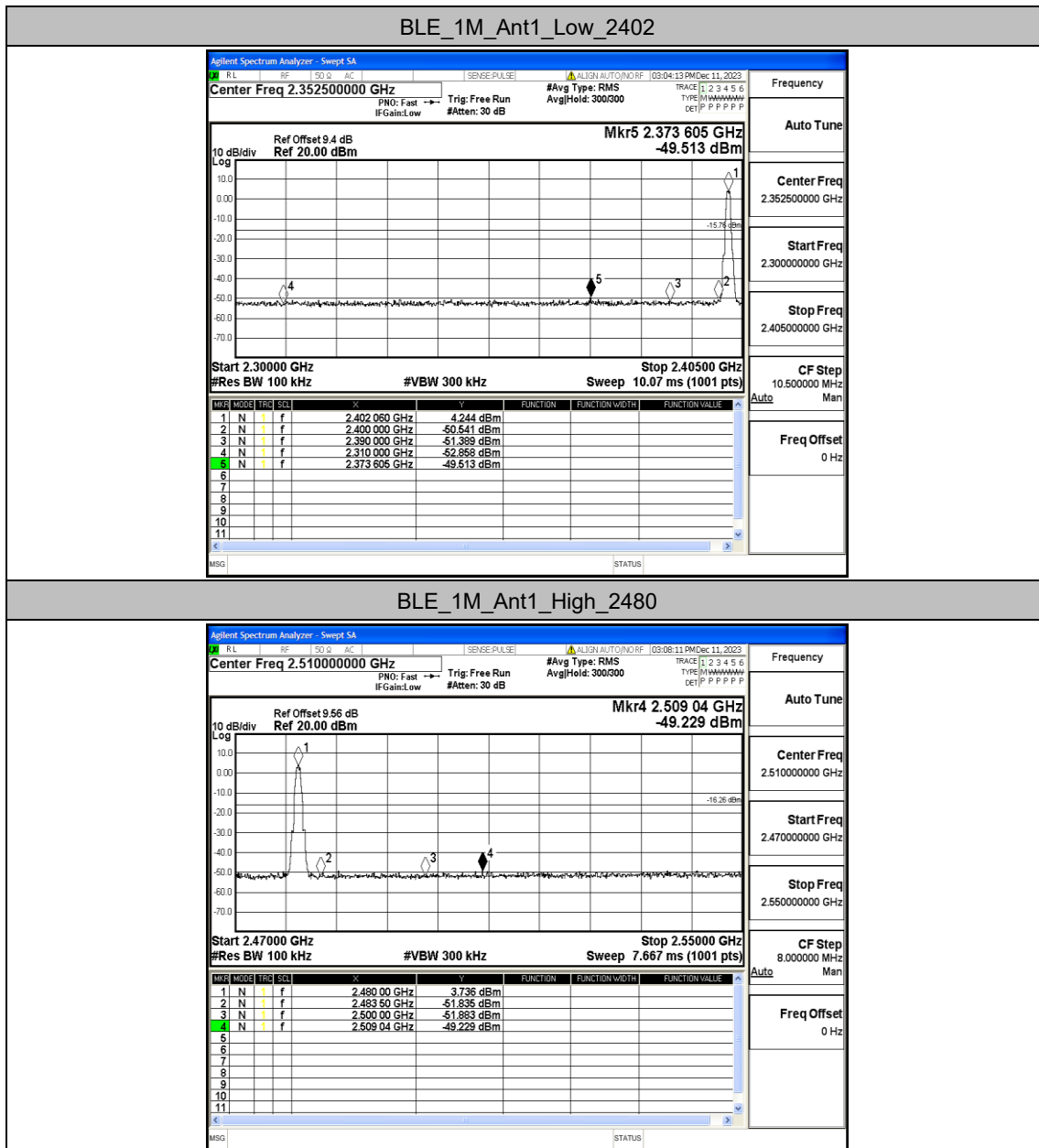


Appendix E: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.24	-49.51	≤-15.76	PASS
		High	2480	3.74	-49.23	≤-16.26	PASS

Test Graphs



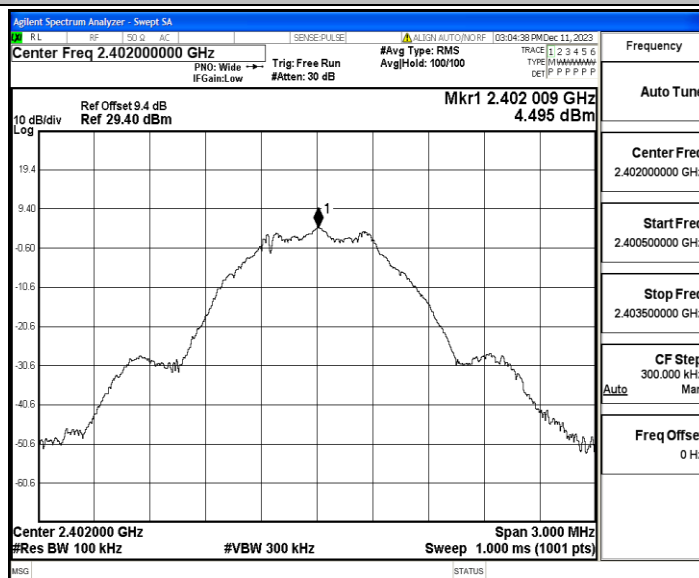
Appendix F: Conducted Spurious Emission

Test Result

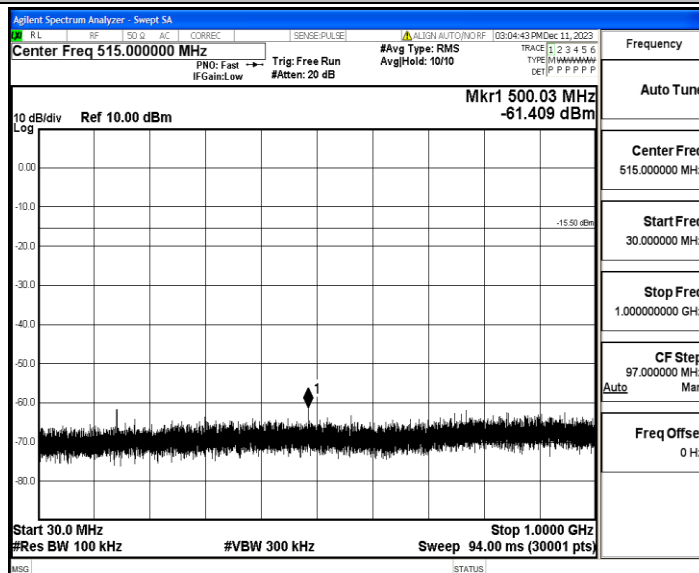
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	4.50	4.50	---	PASS
			30~1000	4.50	-61.41	≤-15.5	PASS
			1000~26500	4.50	-49.91	≤-15.5	PASS
		2440	Reference	4.60	4.60	---	PASS
			30~1000	4.60	-61.29	≤-15.4	PASS
			1000~26500	4.60	-49	≤-15.4	PASS
		2480	Reference	3.56	3.56	---	PASS
			30~1000	3.56	-60.79	≤-16.44	PASS
			1000~26500	3.56	-49.75	≤-16.44	PASS

Test Graphs

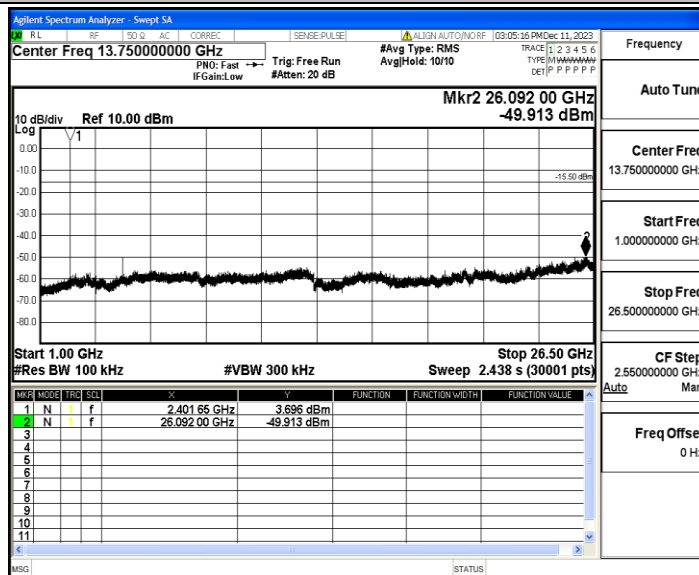
BLE_1M_Ant1_2402_0~Reference



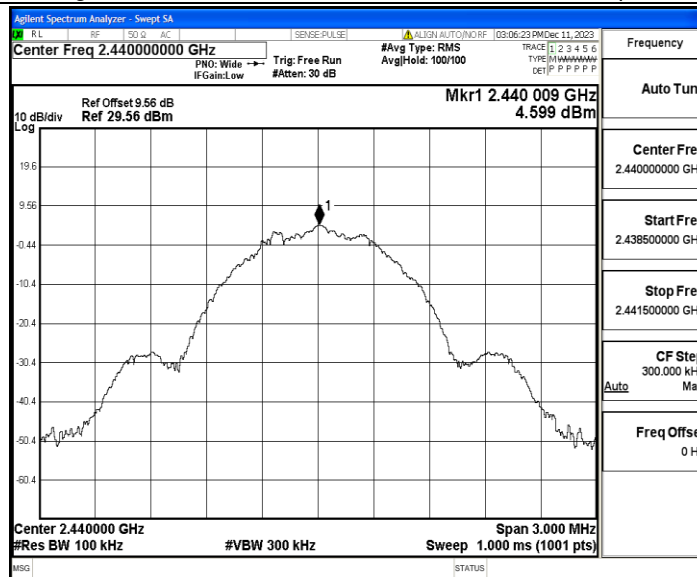
BLE_1M_Ant1_2402_30~1000



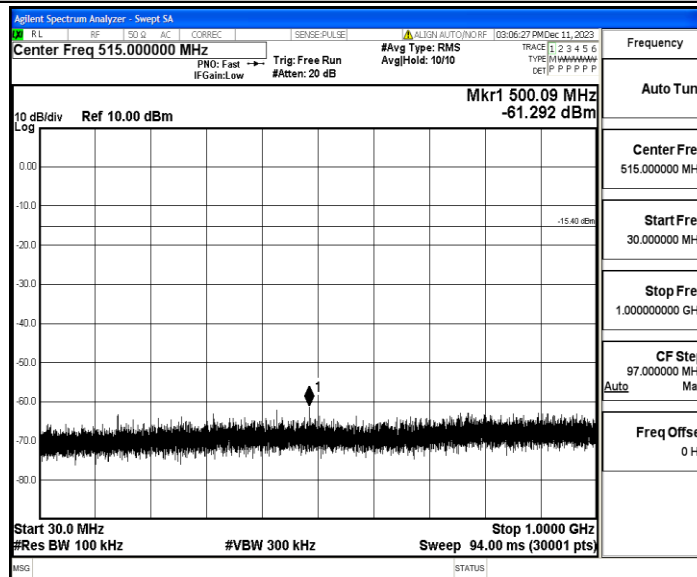
BLE_1M_Ant1_2402_1000~26500



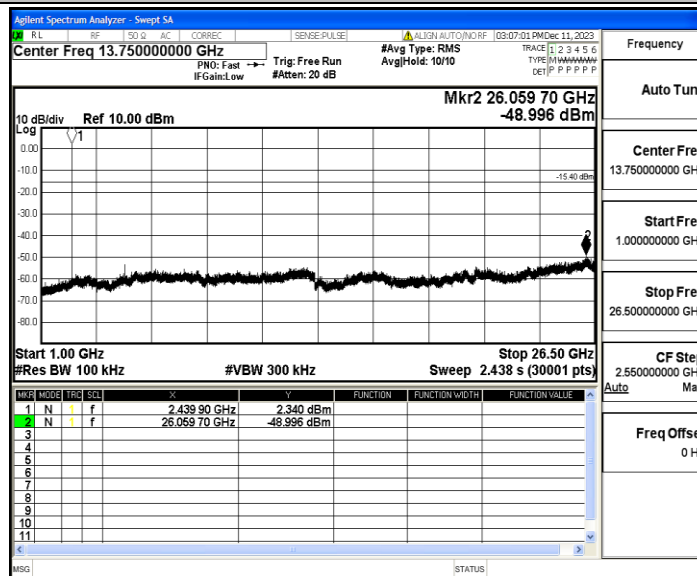
BLE_1M_Ant1_2440_0~Reference



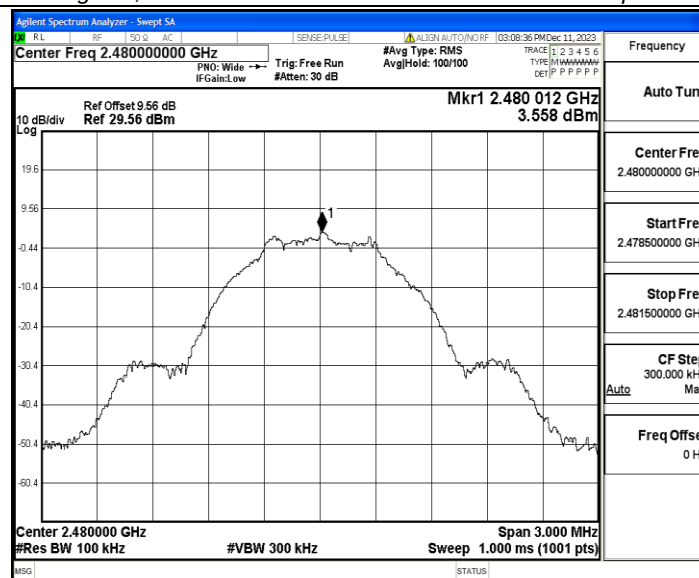
BLE_1M_Ant1_2440_30~1000



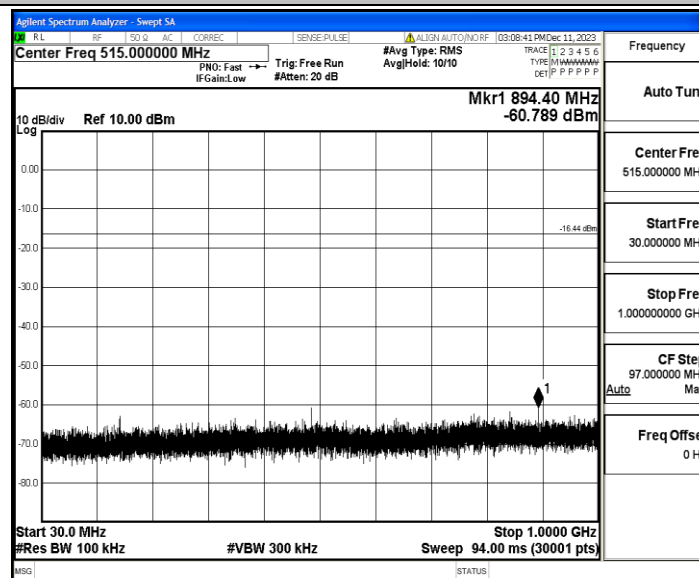
BLE_1M_Ant1_2440_1000~26500



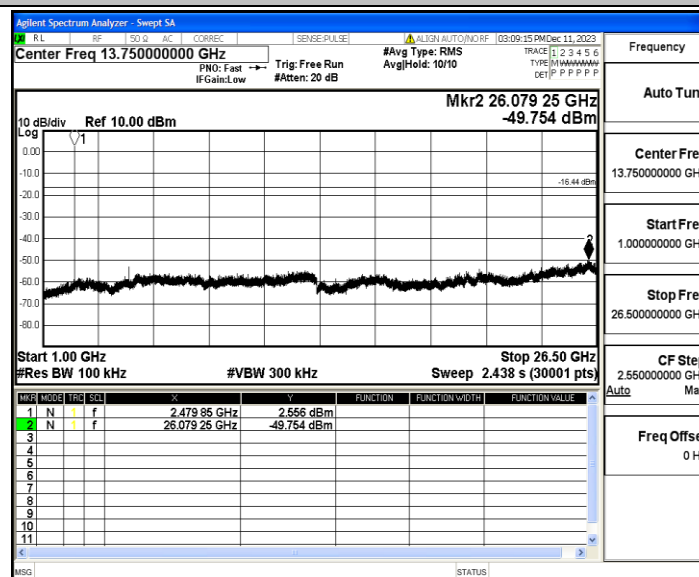
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500

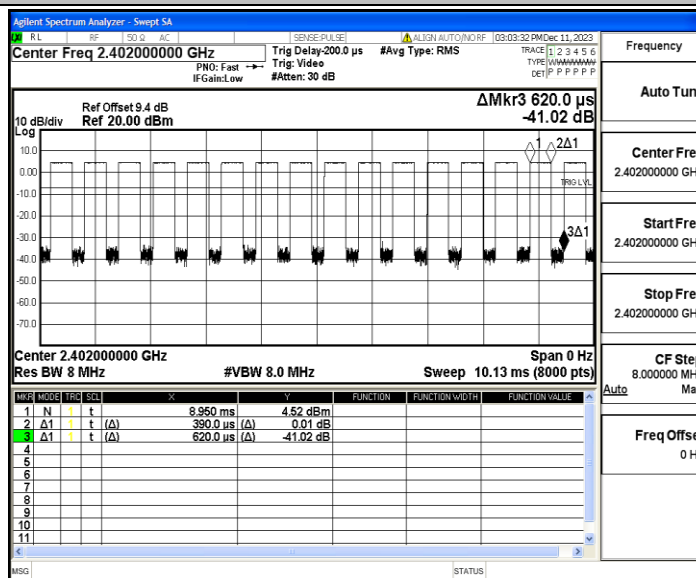


Appendix G: Duty Cycle

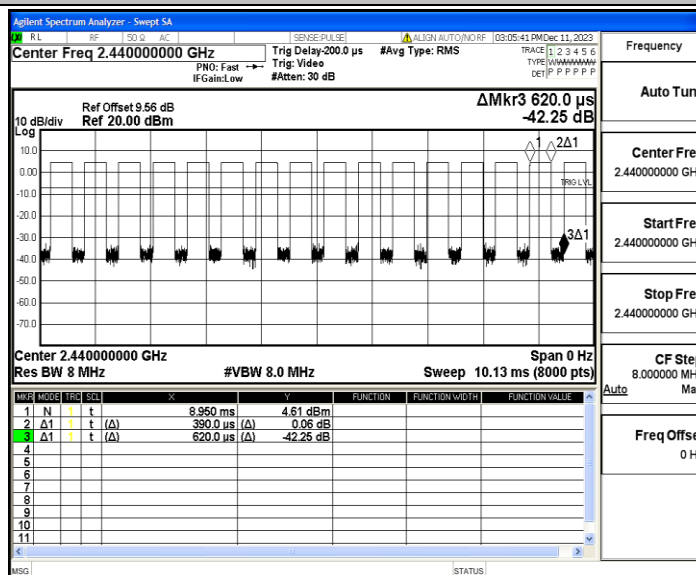
Test Result

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

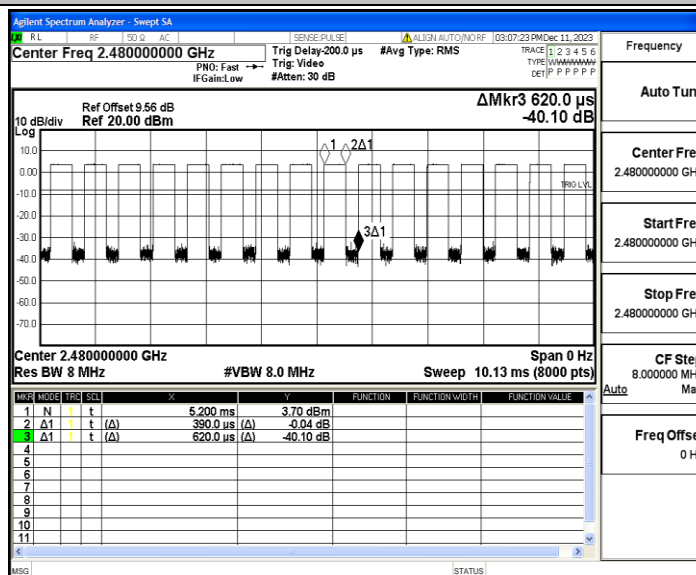
BLE 1M Ant1 2402



BLE	1M	Ant1	2440
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BLE 1M Ant1 2480



Appendix H: Emissions in Restricted Bands

Test Result

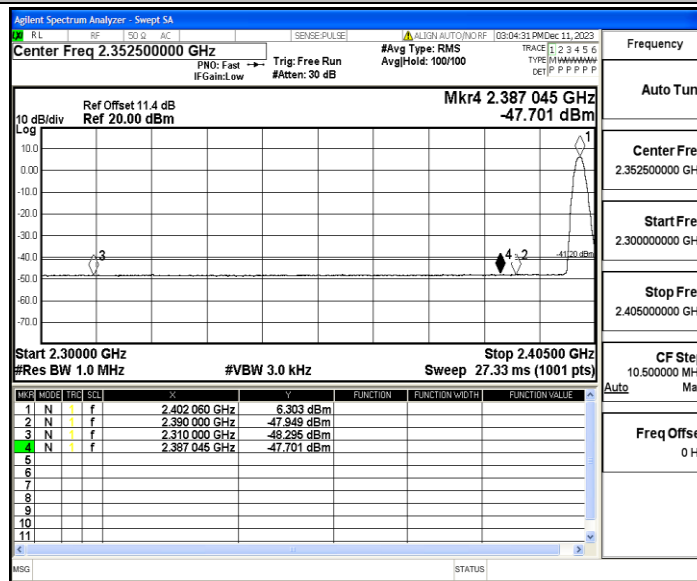
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-48.3	≤-41.20	PASS
				AV	2387.045	-47.7	≤-41.20	PASS
				AV	2390.000	-47.95	≤-41.20	PASS
				Peak	2310.000	-41.5	≤-21.20	PASS
				Peak	2362.160	-38.3	≤-21.20	PASS
				Peak	2390.000	-40.84	≤-21.20	PASS
		High	2480	AV	2483.500	-46.71	≤-41.20	PASS
				AV	2483.520	-46.71	≤-41.20	PASS
				AV	2500.000	-47.55	≤-41.20	PASS
				Peak	2483.500	-41.08	≤-21.20	PASS
				Peak	2483.920	-37.67	≤-21.20	PASS
				Peak	2500.000	-38.52	≤-21.20	PASS

Note:

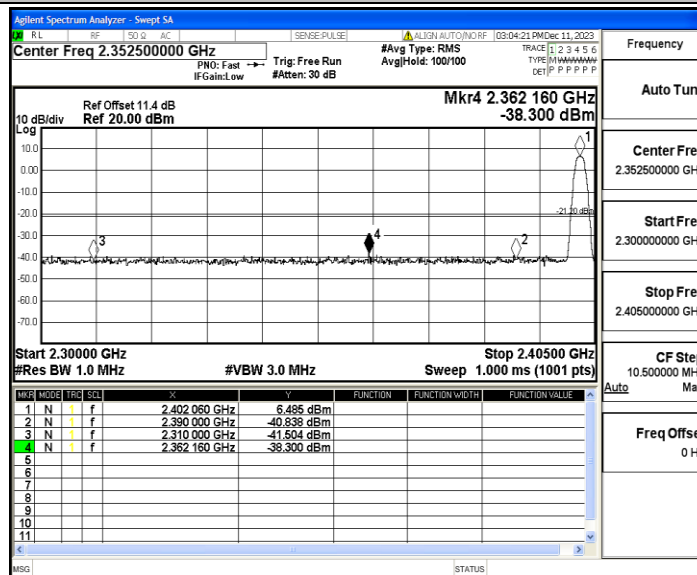
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

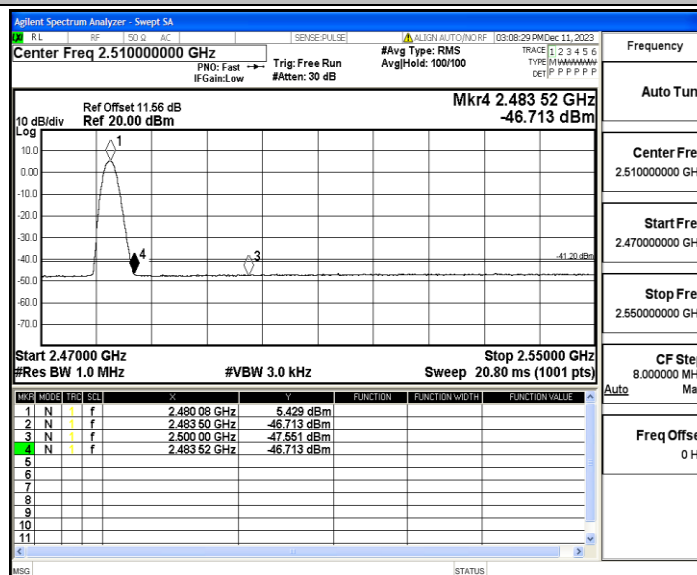
BLE_1M_Ant1_Low_2402_AV



BLE_1M_Ant1_Low_2402_Peak



BLE_1M_Ant1_High_2480_AV



BLE_1M_Ant1_High_2480_Peak

