

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

Product Name: TABLET

Trade Mark: FLY

Test Model: GOPAD

FCC ID: 2BCQ3-GOPAD

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

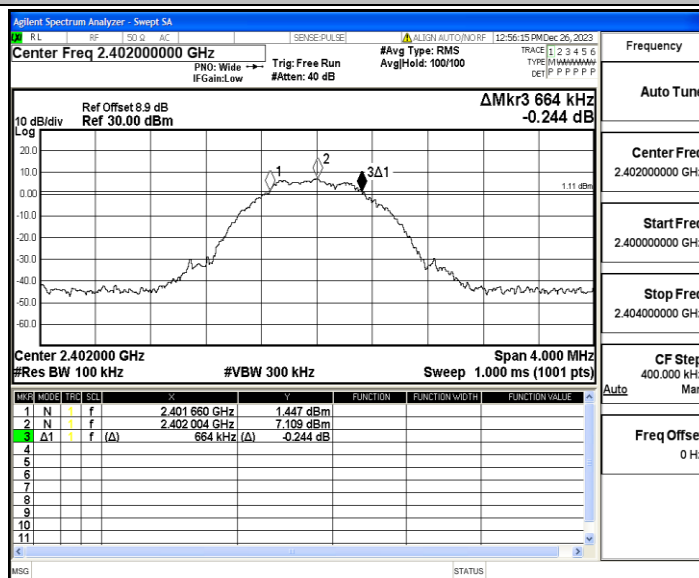
Appendix A: DTS Bandwidth

Test Result

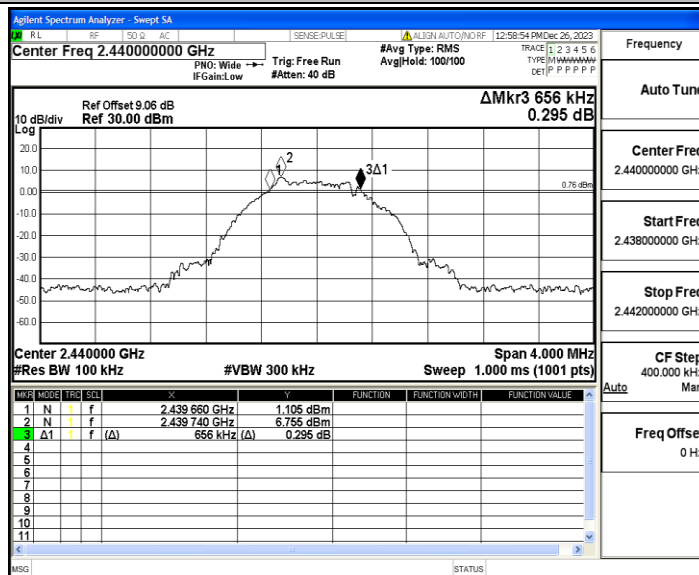
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.660	2402.324	0.5	PASS
		2440	0.656	2439.660	2440.316	0.5	PASS
		2480	0.660	2479.656	2480.316	0.5	PASS
BLE_2M	Ant1	2402	1.140	2401.404	2402.544	0.5	PASS
		2440	1.128	2439.412	2440.540	0.5	PASS
		2480	1.124	2479.420	2480.544	0.5	PASS

Test Graphs

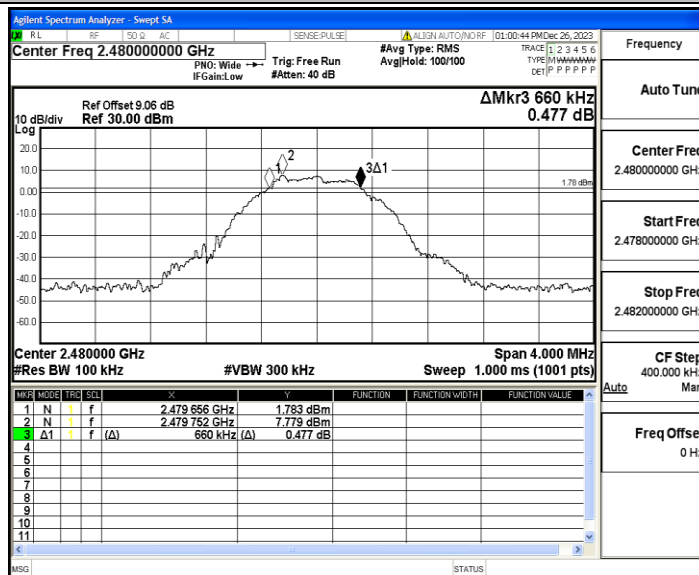
BLE_1M_Ant1_2402



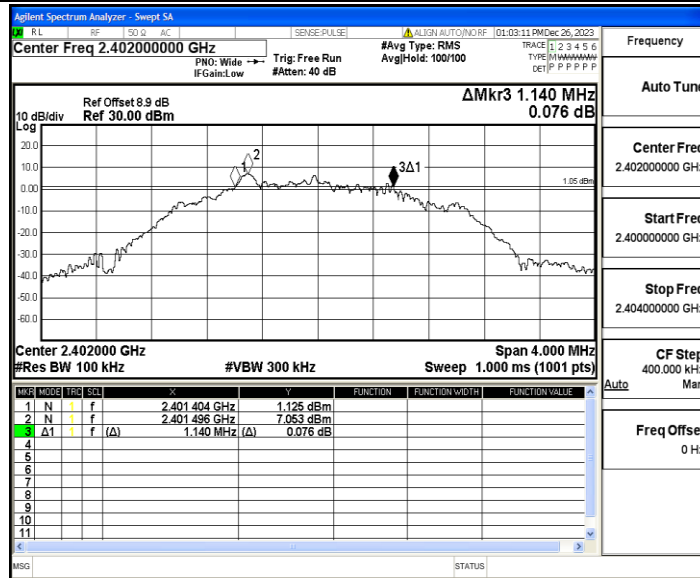
BLE_1M_Ant1_2440



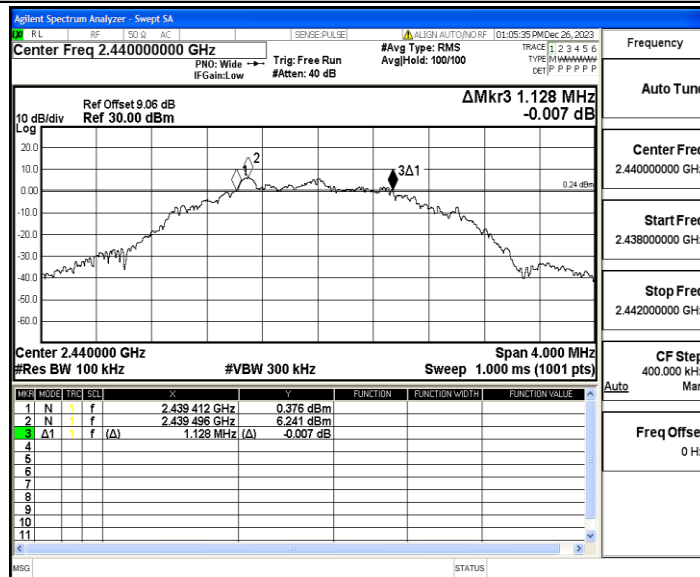
BLE_1M_Ant1_2480



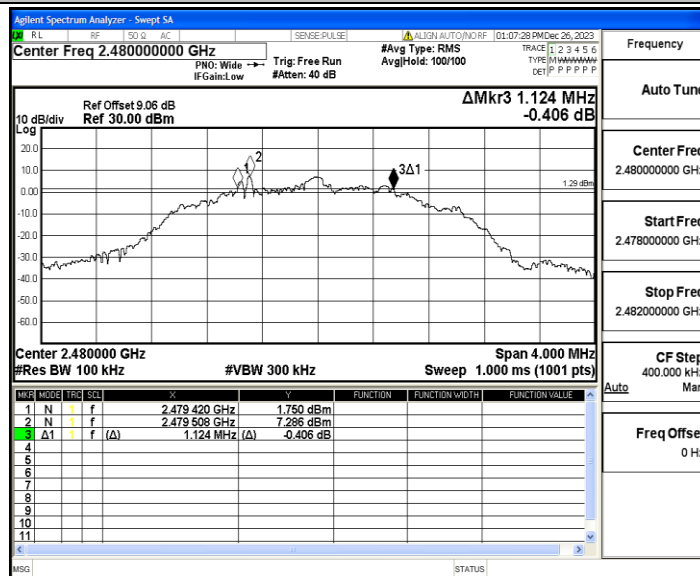
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



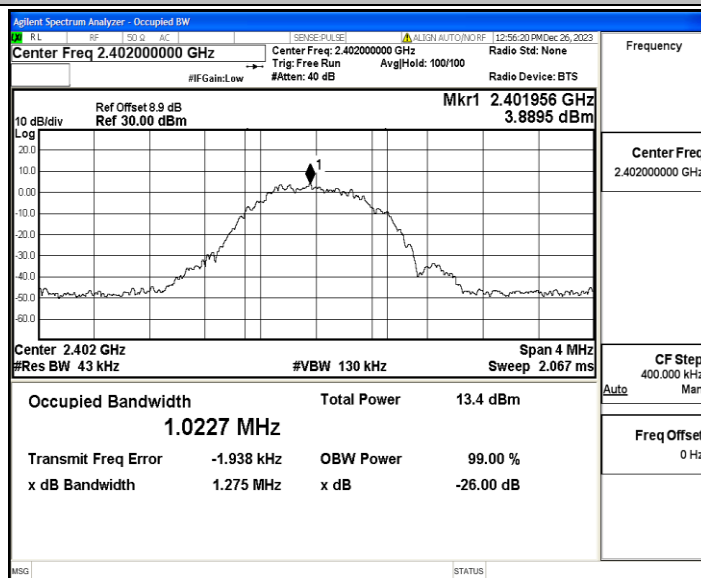
Appendix B: Occupied Channel Bandwidth

Test Result

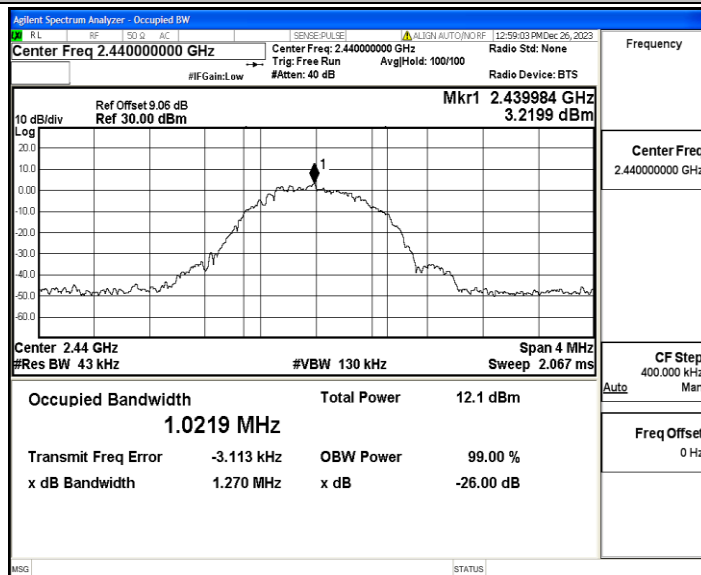
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0227	2401.4867	2402.5094	---	---
		2440	1.0219	2439.4859	2440.5078	---	---
		2480	1.0252	2479.4857	2480.5109	---	---
BLE_2M	Ant1	2402	2.0486	2400.9954	2403.0440	---	---
		2440	2.0544	2438.9842	2441.0386	---	---
		2480	2.0321	2478.9957	2481.0278	---	---

Test Graphs

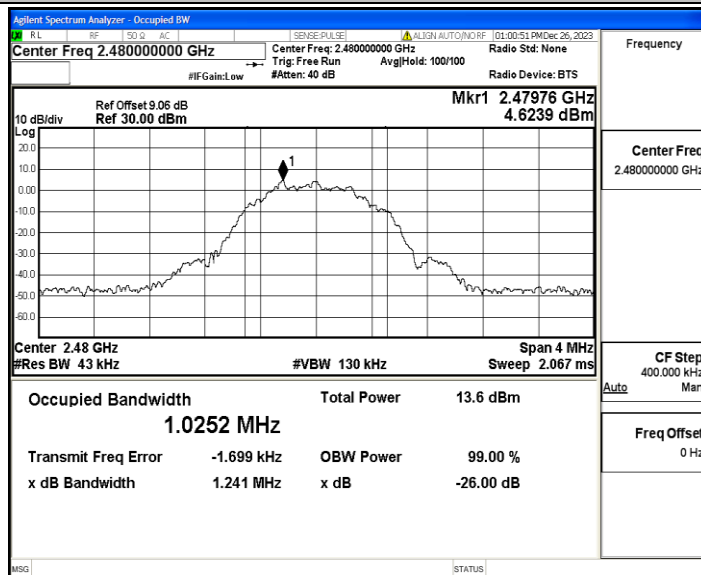
BLE_1M_Ant1_2402



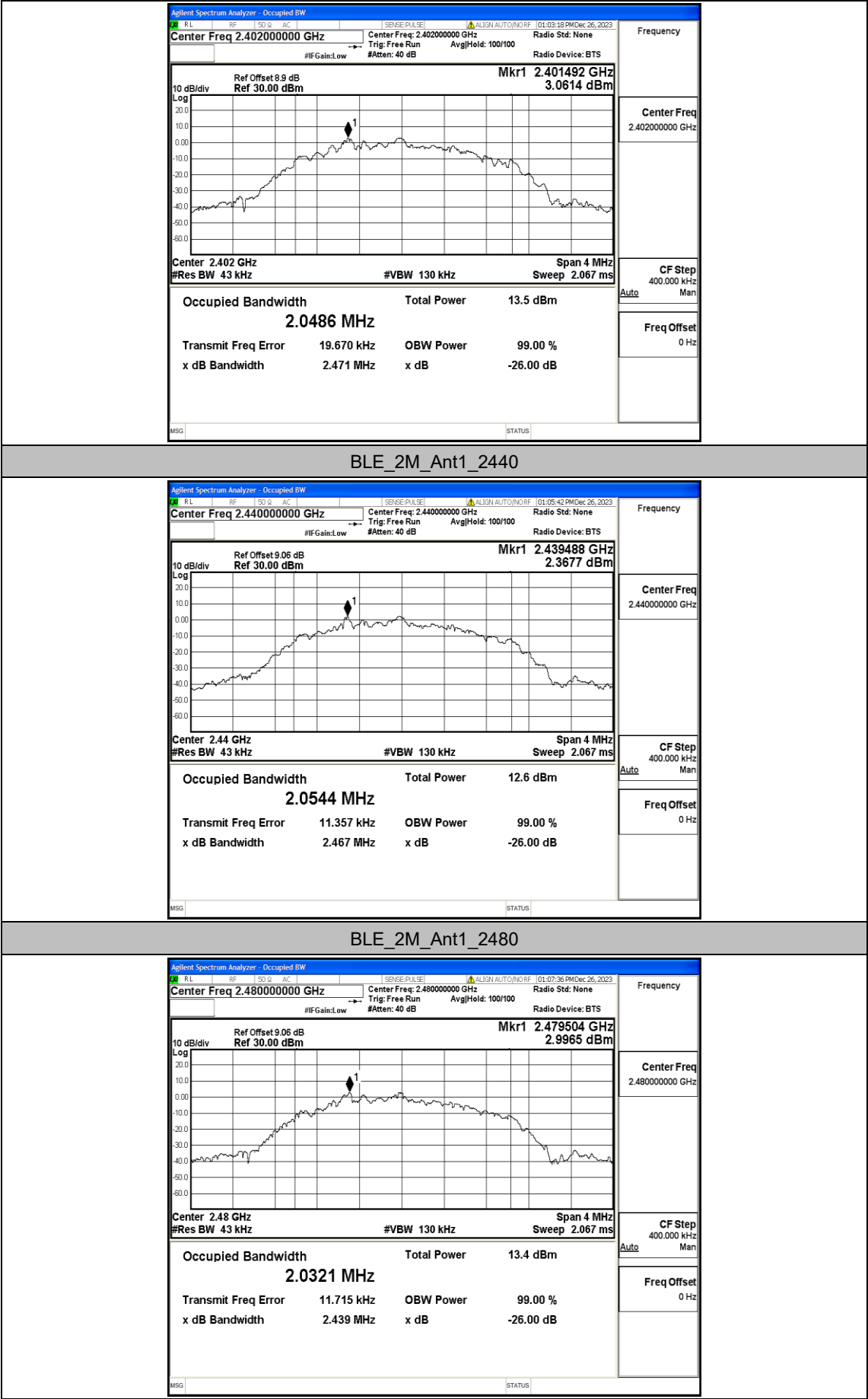
BLE_1M_Ant1_2440



BLE_1M_Ant1_2480



BLE_2M_Ant1_2402

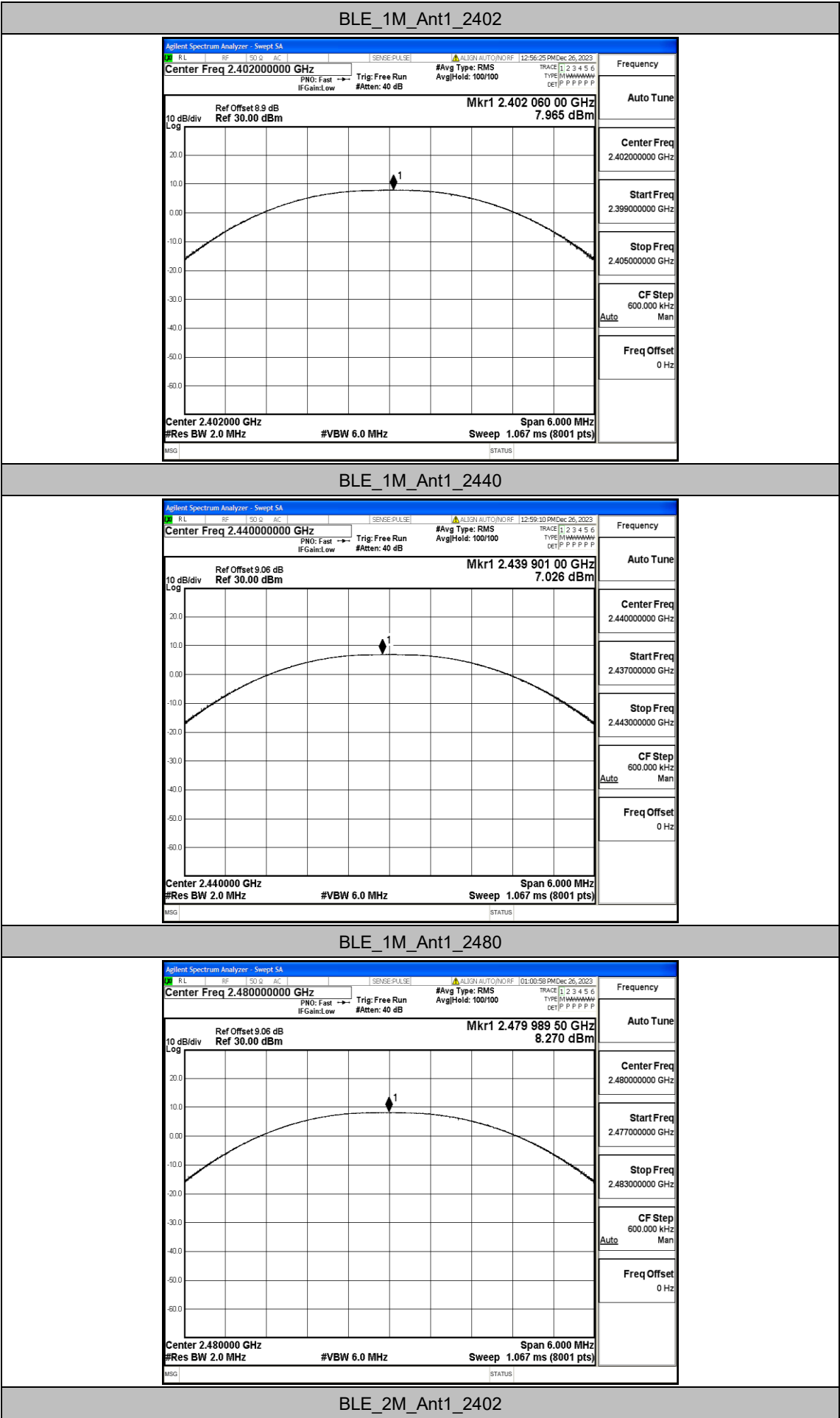


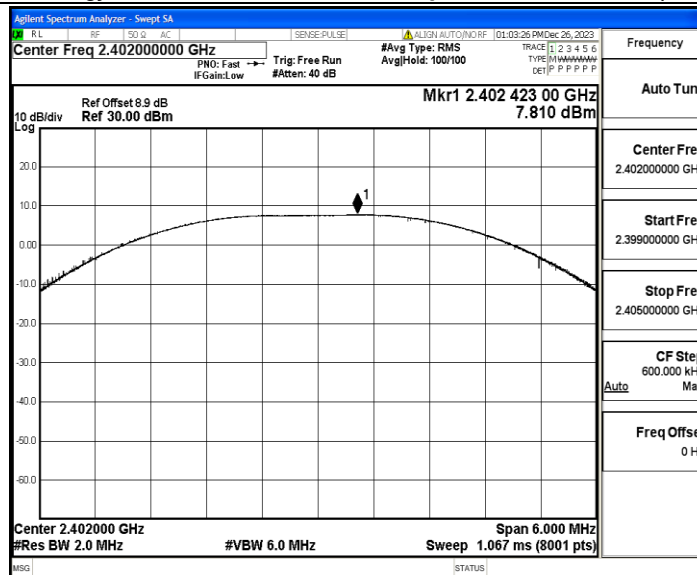
Appendix C: Maximum Peak conducted output power

Test Result

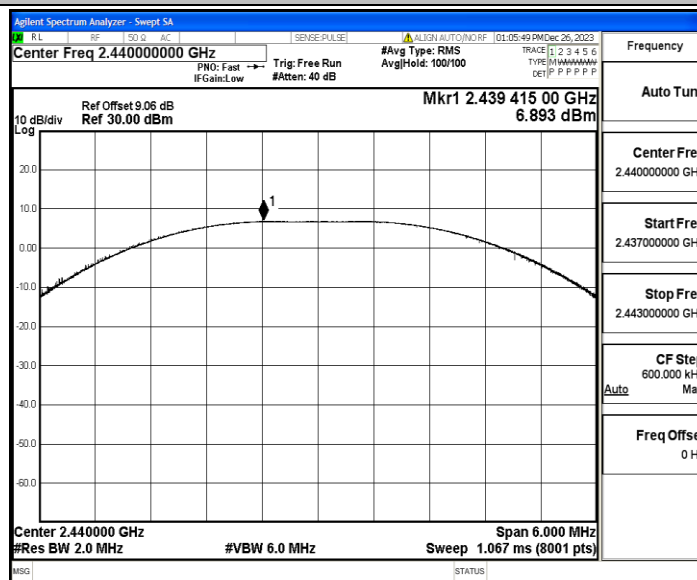
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	7.97	≤30	PASS
		2440	7.03	≤30	PASS
		2480	8.27	≤30	PASS
BLE_2M	Ant1	2402	7.81	≤30	PASS
		2440	6.89	≤30	PASS
		2480	8.16	≤30	PASS

Test Graphs

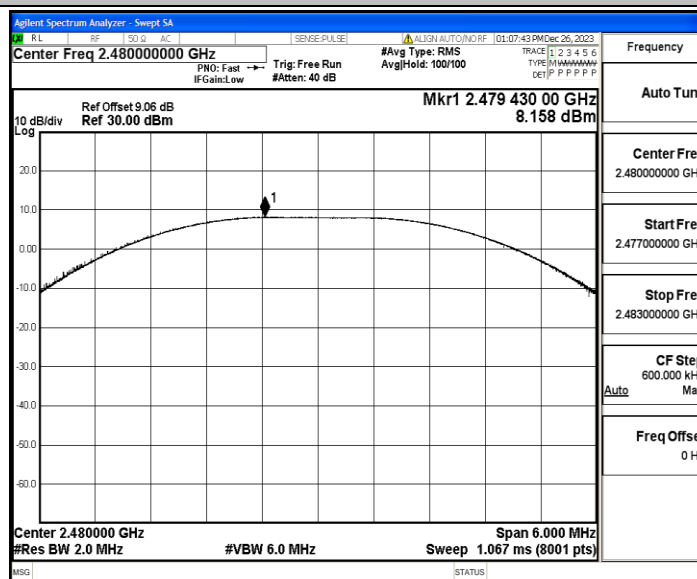




BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



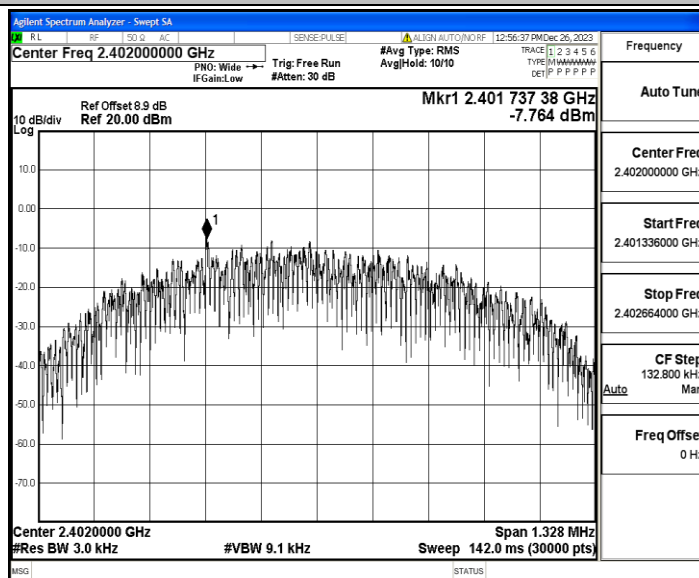
Appendix D: Maximum power spectral density

Test Result

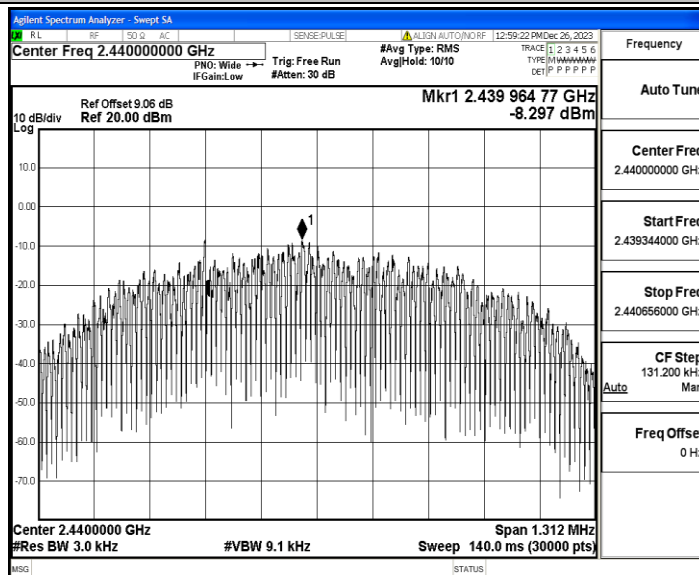
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-7.76	≤8.00	PASS
		2440	-8.3	≤8.00	PASS
		2480	-7.24	≤8.00	PASS
BLE_2M	Ant1	2402	-10.01	≤8.00	PASS
		2440	-10.87	≤8.00	PASS
		2480	-9.51	≤8.00	PASS

Test Graphs

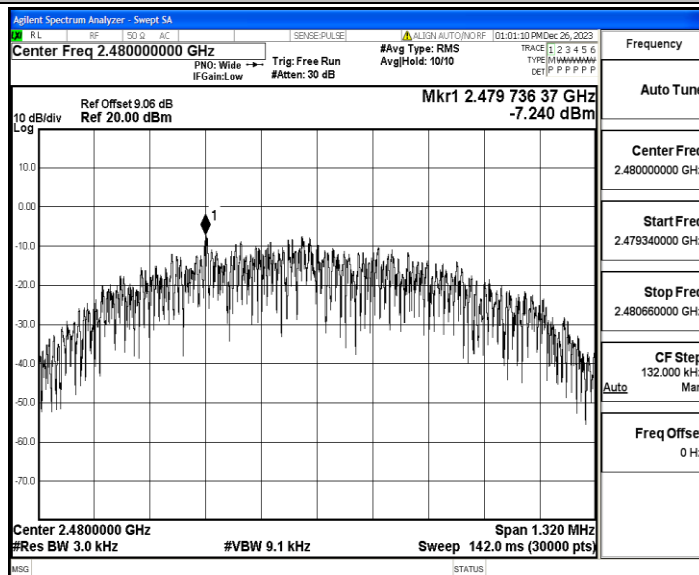
BLE_1M_Ant1_2402



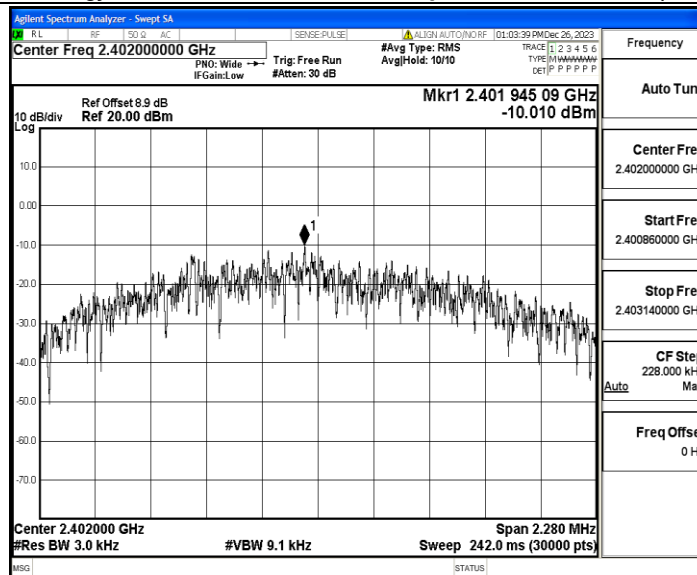
BLE_1M_Ant1_2440



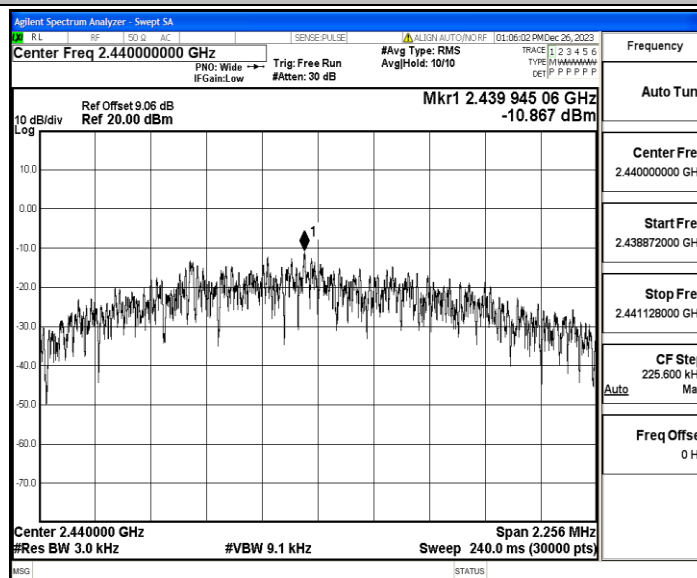
BLE_1M_Ant1_2480



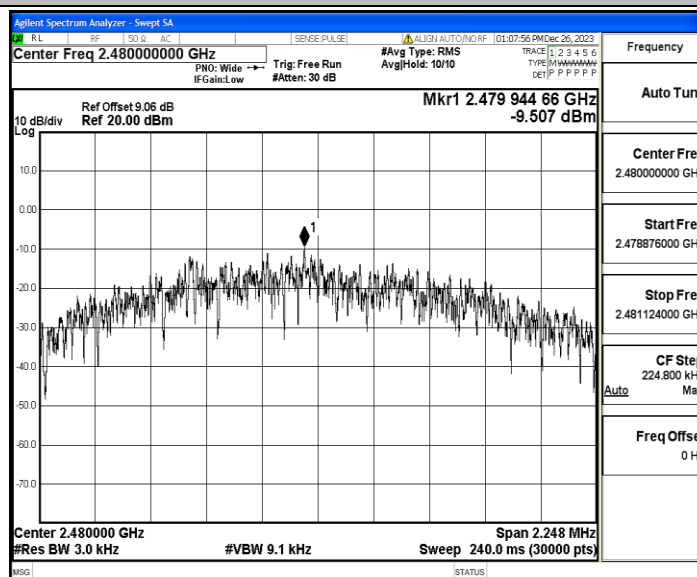
BLE_2M_Ant1_2402



BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



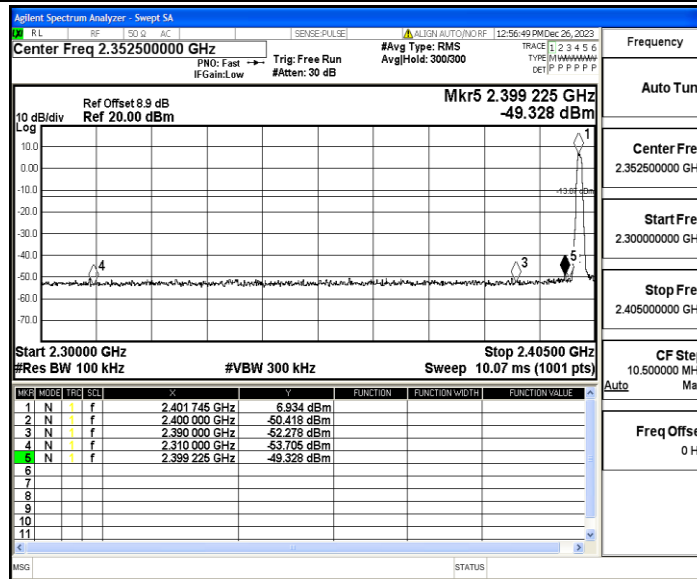
Appendix E: Band edge measurements

Test Result

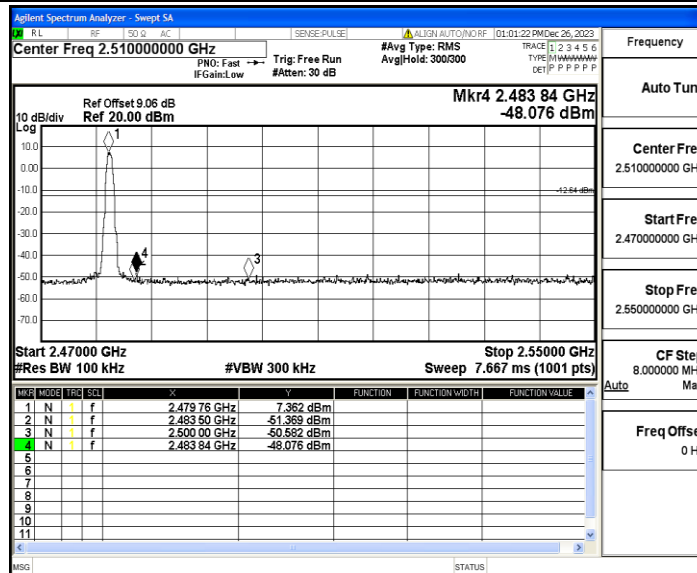
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	6.93	-49.33	≤-13.07	PASS
		High	2480	7.36	-48.08	≤-12.64	PASS
BLE_2M	Ant1	Low	2402	7.11	-37.16	≤-12.89	PASS
		High	2480	7.70	-49.19	≤-12.3	PASS

Test Graphs

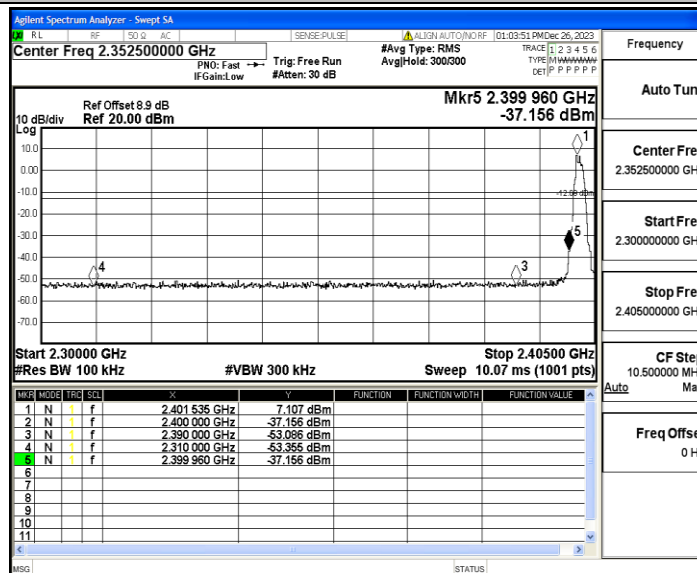
BLE_1M_Ant1_Low_2402



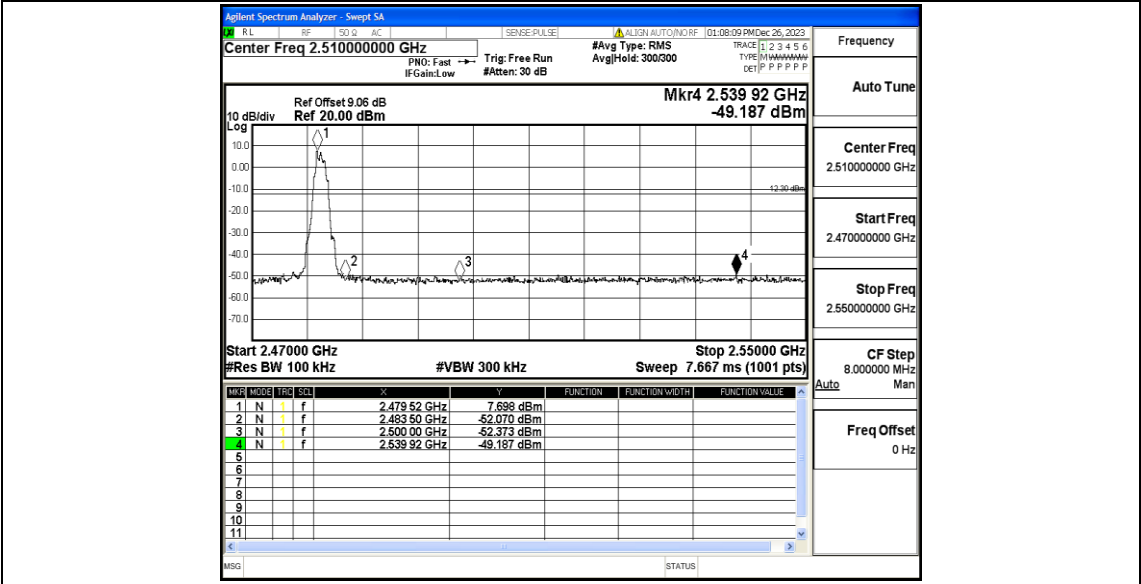
BLE_1M_Ant1_High_2480



BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480

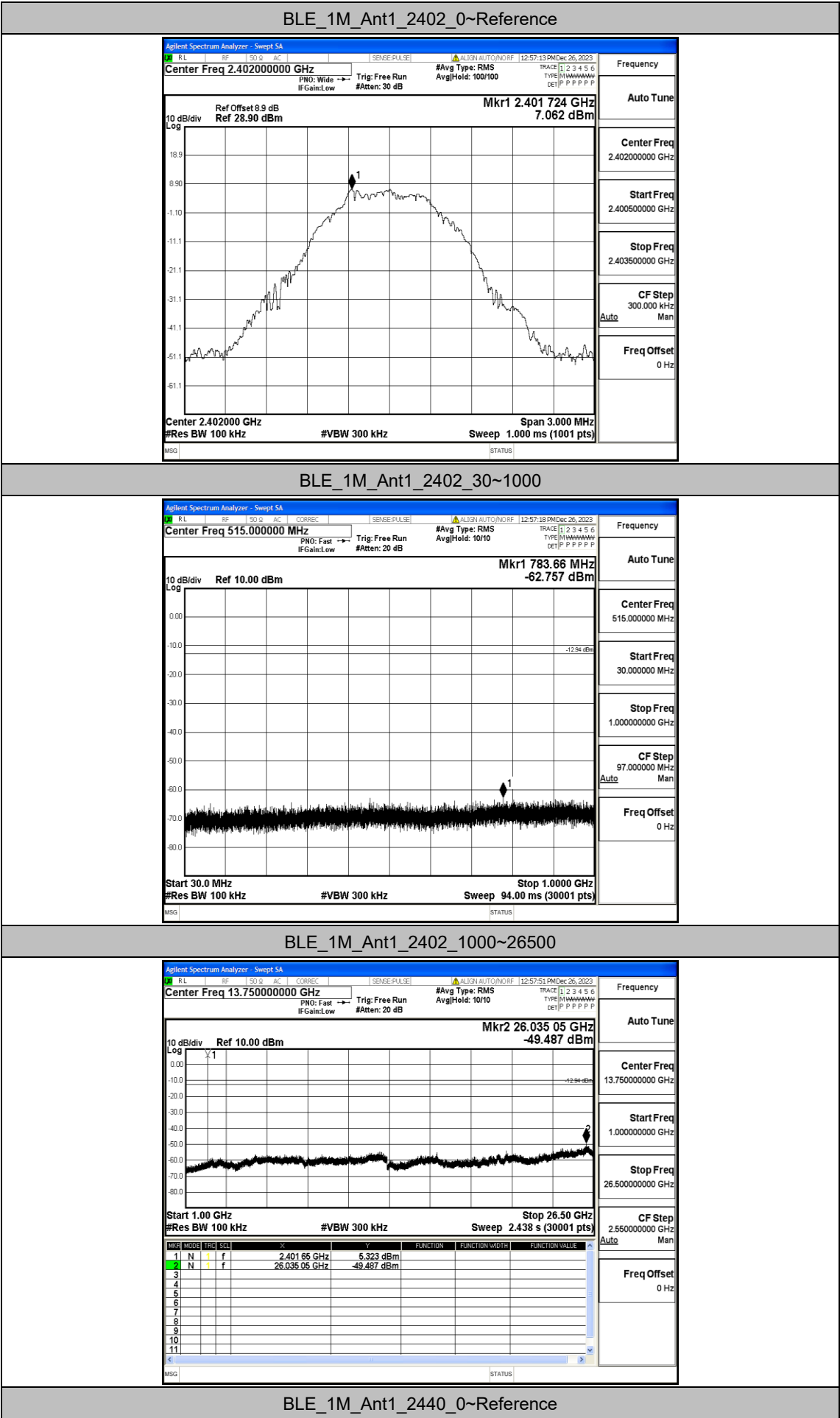


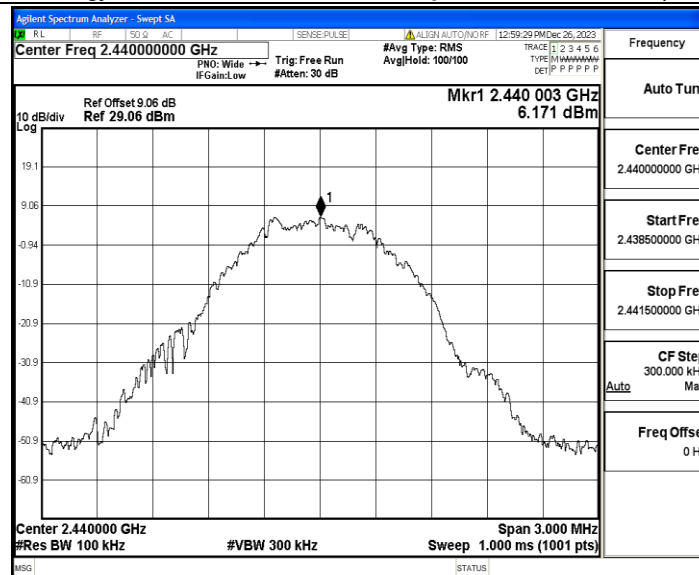
Appendix F: Conducted Spurious Emission

Test Result

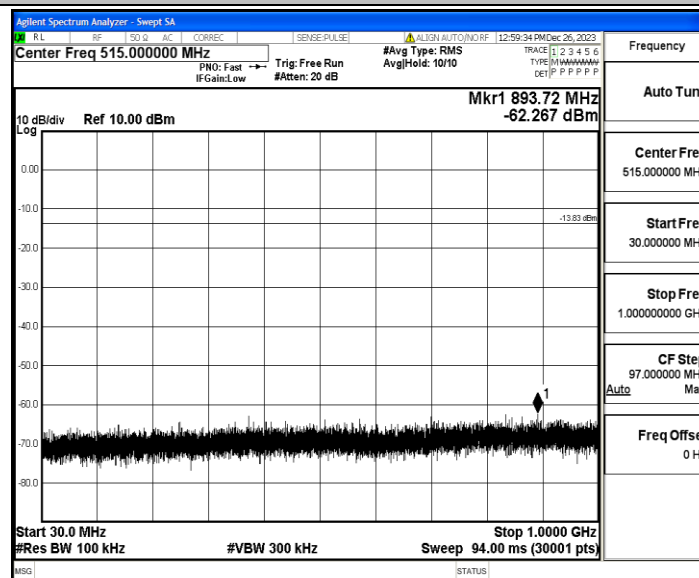
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	7.06	7.06	---	PASS
			30~1000	7.06	-62.76	≤-12.94	PASS
			1000~26500	7.06	-49.49	≤-12.94	PASS
		2440	Reference	6.17	6.17	---	PASS
			30~1000	6.17	-62.27	≤-13.83	PASS
			1000~26500	6.17	-50.37	≤-13.83	PASS
		2480	Reference	7.91	7.91	---	PASS
			30~1000	7.91	-62.74	≤-12.09	PASS
			1000~26500	7.91	-51.01	≤-12.09	PASS
BLE_2M	Ant1	2402	Reference	6.85	6.85	---	PASS
			30~1000	6.85	-62.01	≤-13.15	PASS
			1000~26500	6.85	-50.28	≤-13.15	PASS
		2440	Reference	6.04	6.04	---	PASS
			30~1000	6.04	-61.88	≤-13.96	PASS
			1000~26500	6.04	-49.96	≤-13.96	PASS
		2480	Reference	7.47	7.47	---	PASS
			30~1000	7.47	-62.97	≤-12.53	PASS
			1000~26500	7.47	-50.17	≤-12.53	PASS

Test Graphs

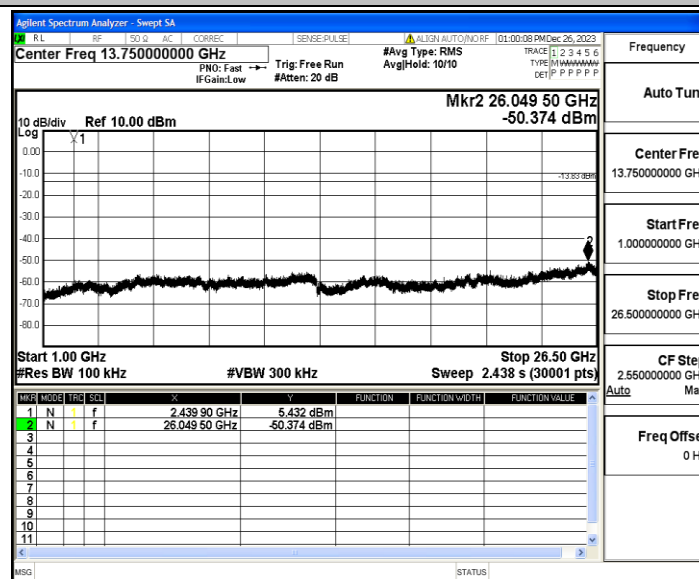




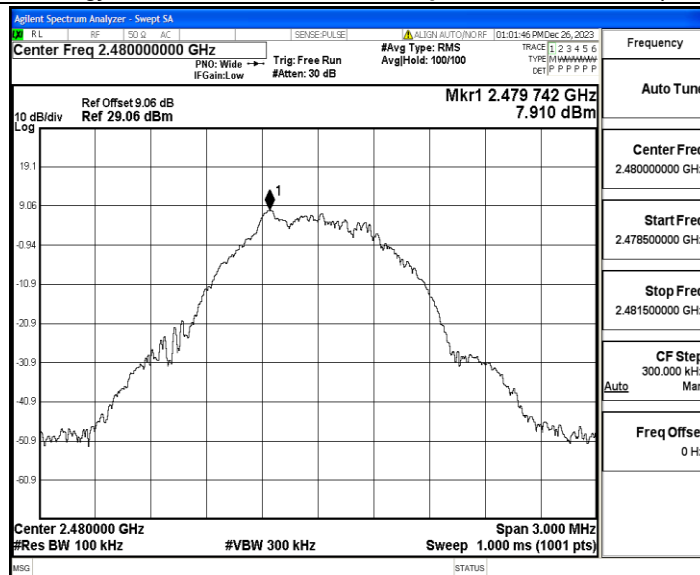
BLE_1M_Ant1_2440_30~1000



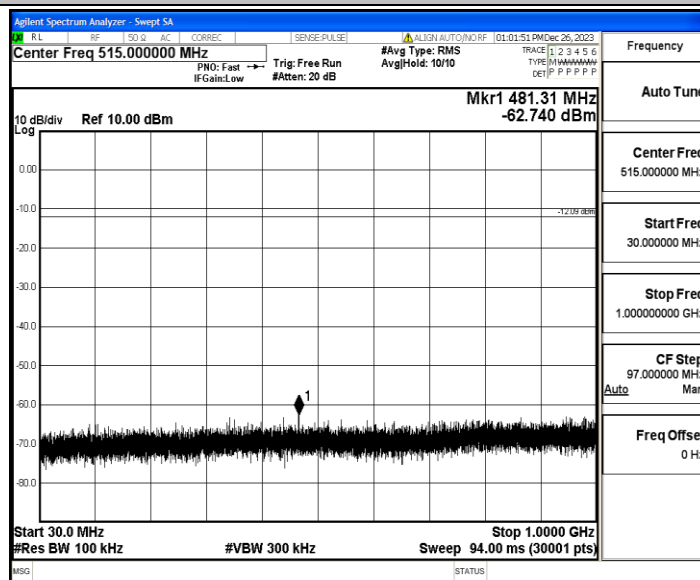
BLE_1M_Ant1_2440_1000~26500



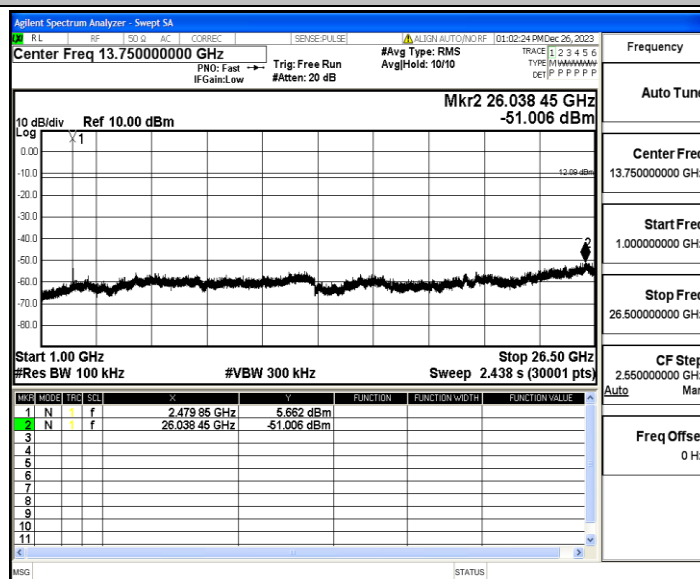
BLE_1M_Ant1_2480_0~Reference



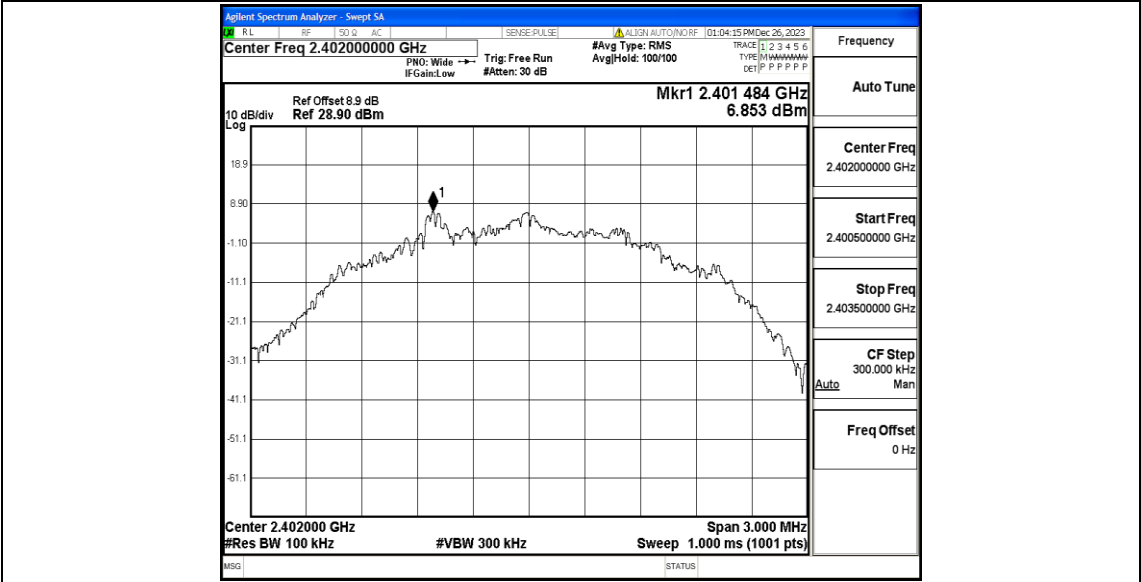
BLE_1M_Ant1_2480_30~1000



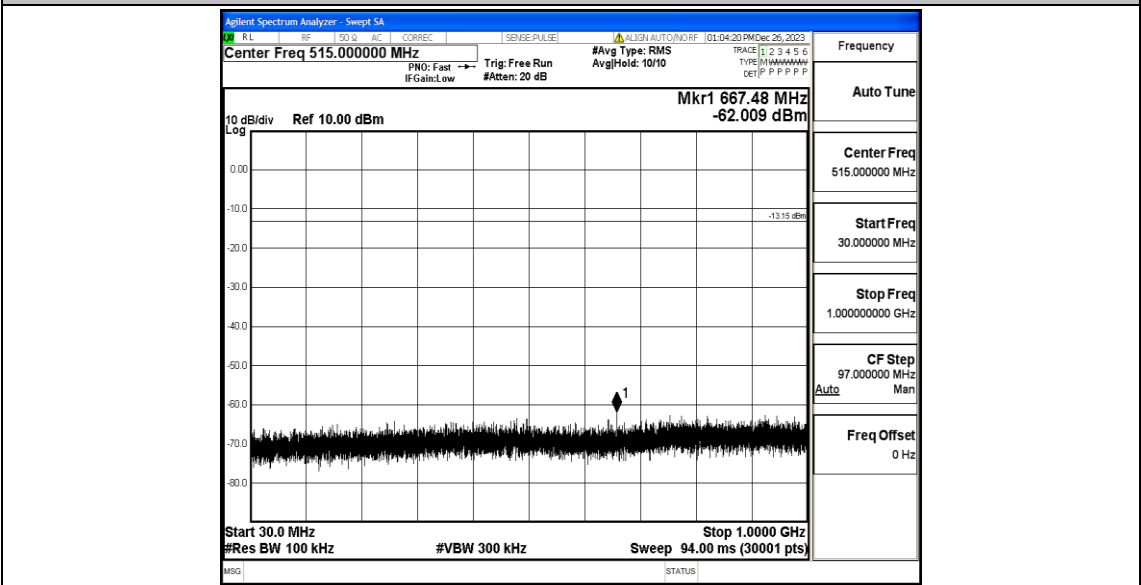
BLE_1M_Ant1_2480_1000~26500



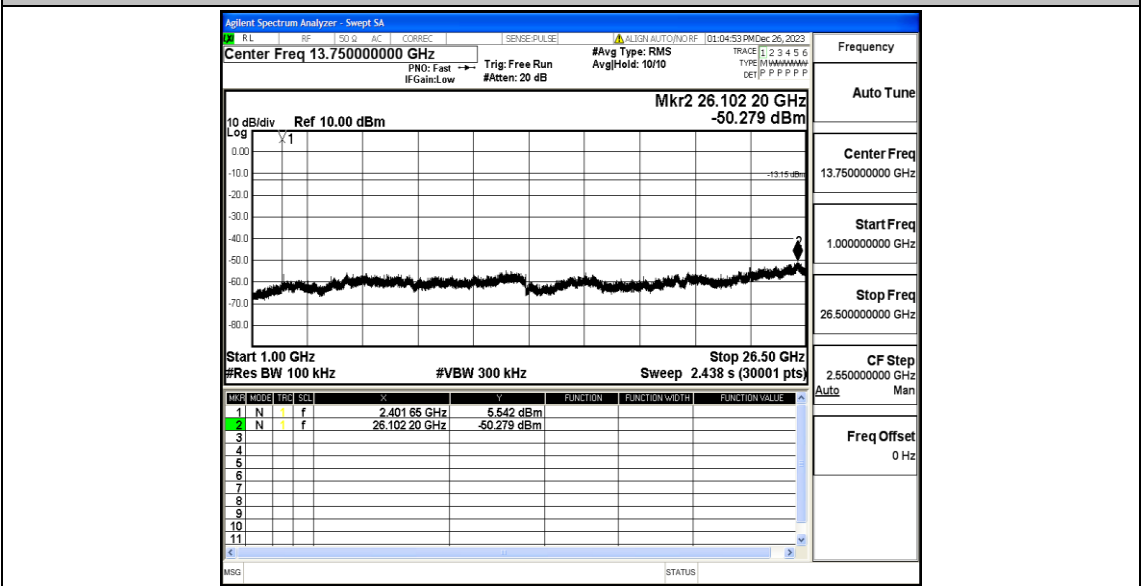
BLE_2M_Ant1_2402_0~Reference



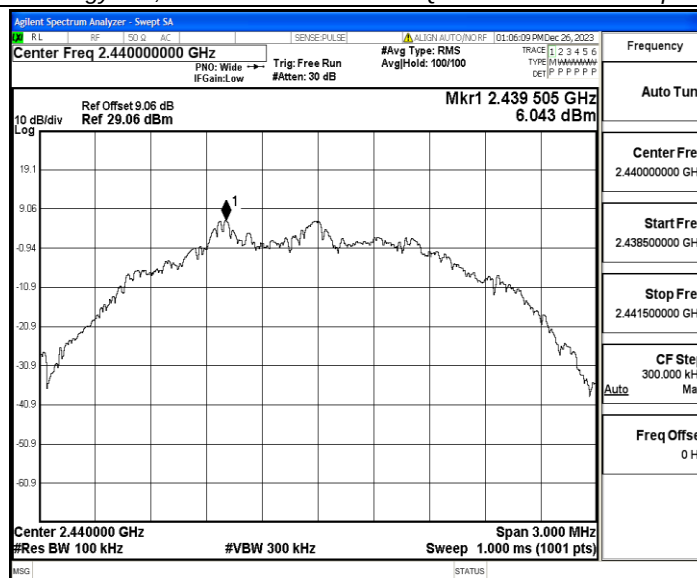
BLE_2M_Ant1_2402_30~1000



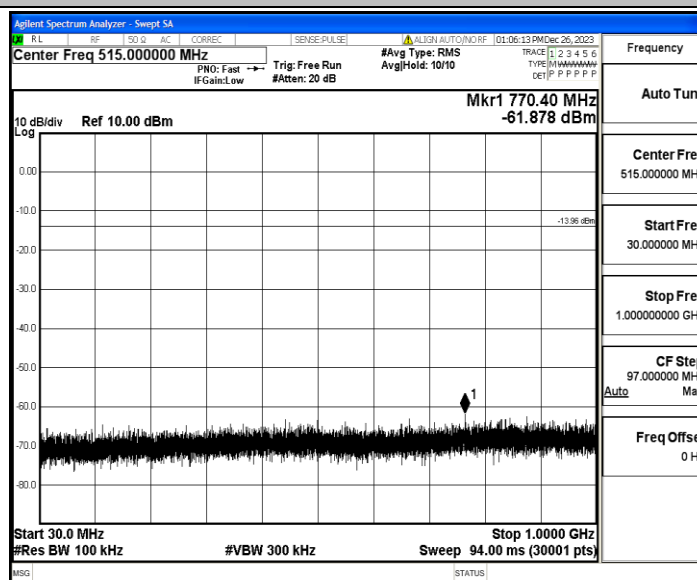
BLE_2M_Ant1_2402_1000~26500



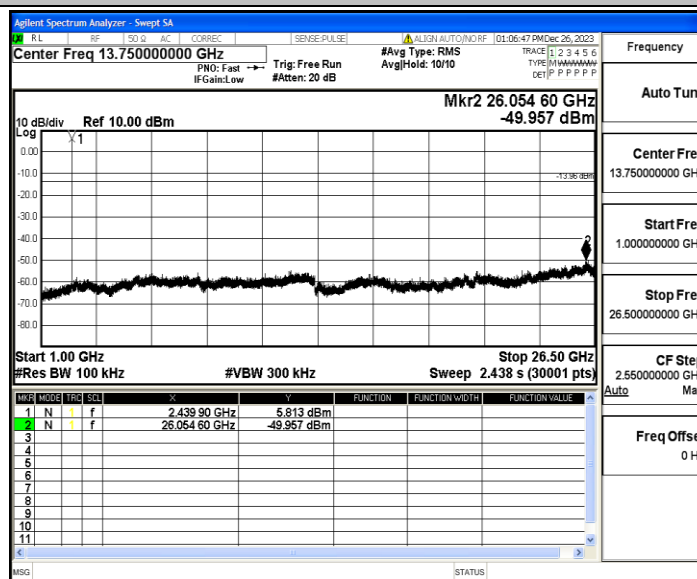
BLE_2M_Ant1_2440_0~Reference



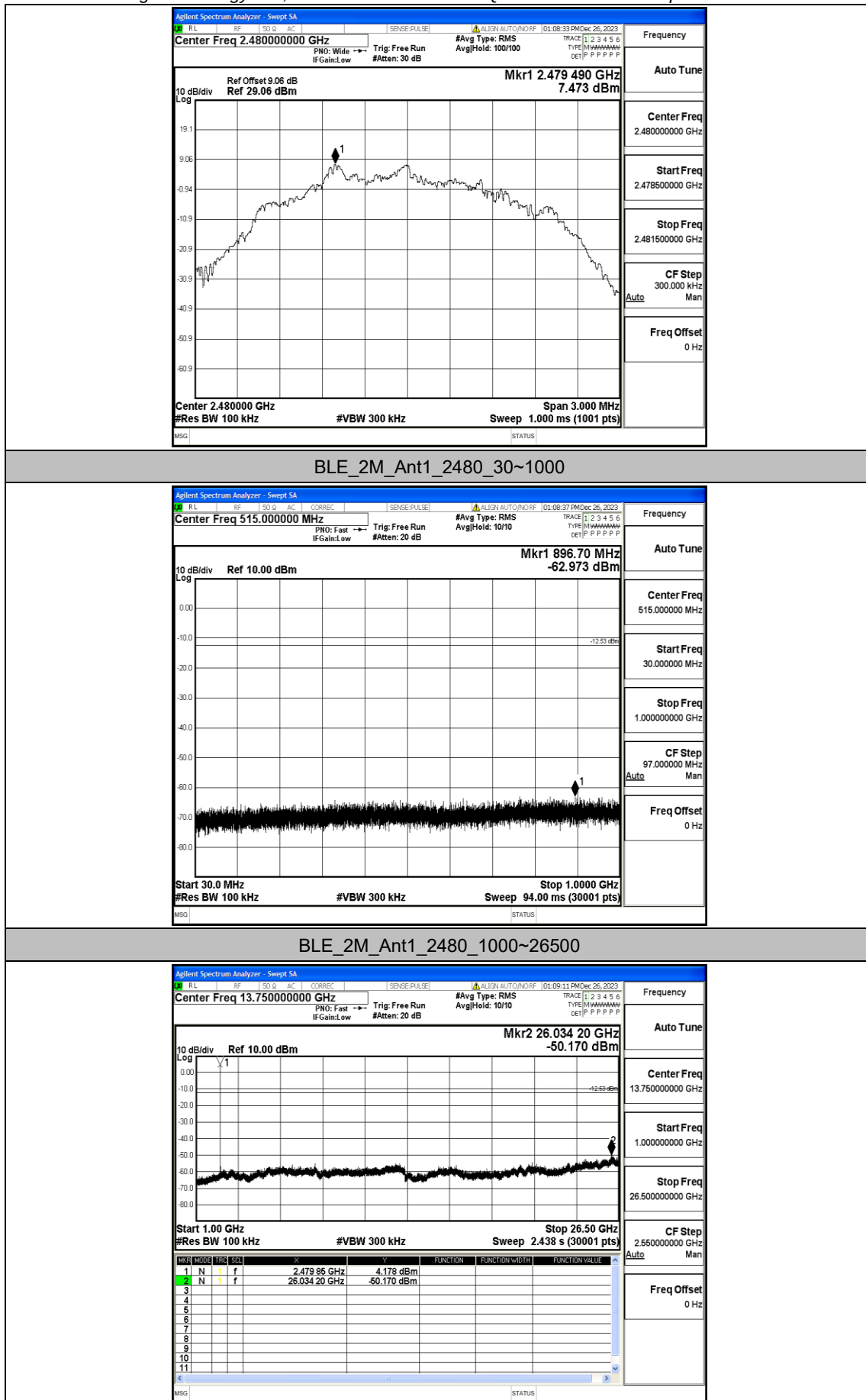
BLE_2M_Ant1_2440_30~1000



BLE_2M_Ant1_2440_1000~26500



BLE_2M_Ant1_2480_0~Reference

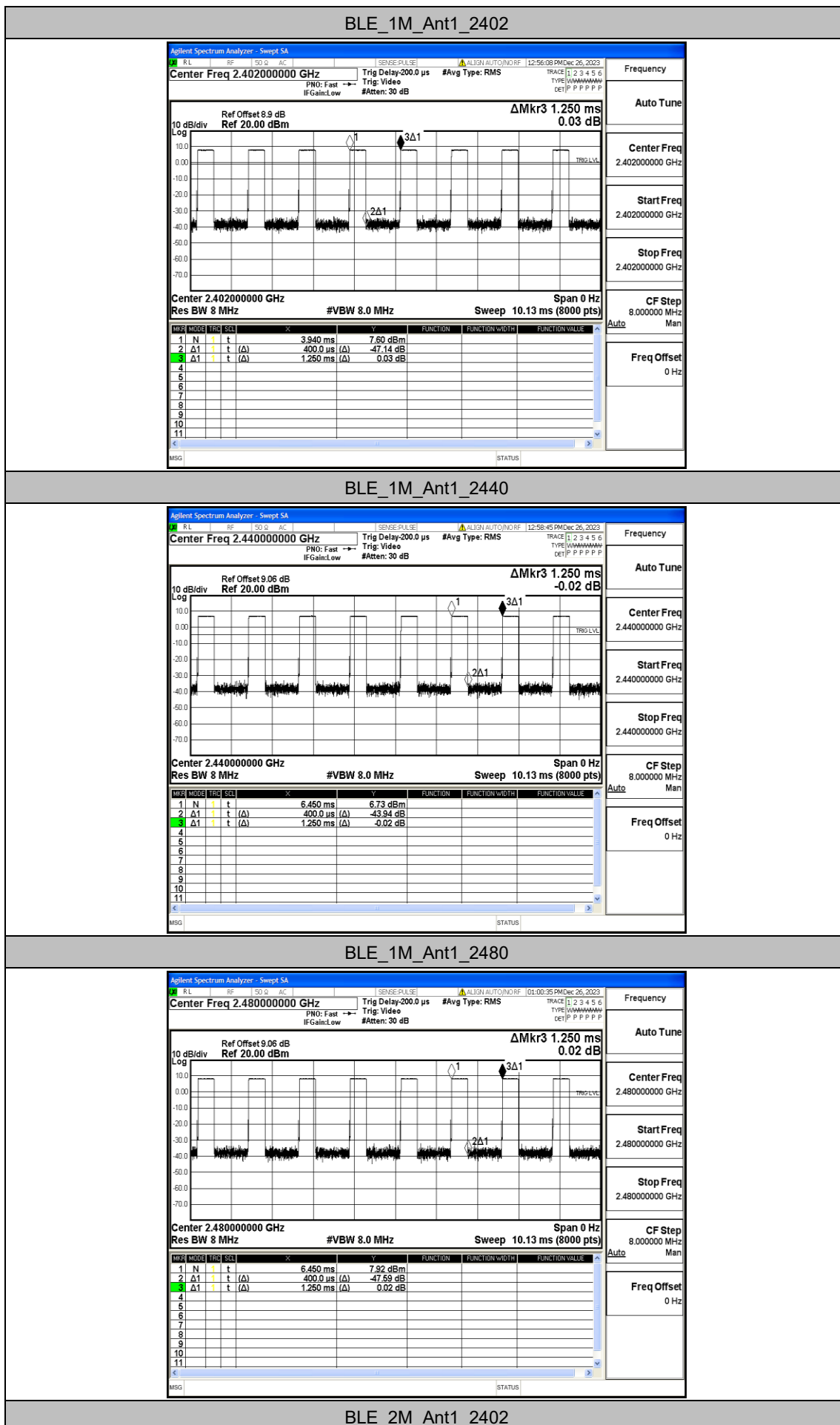


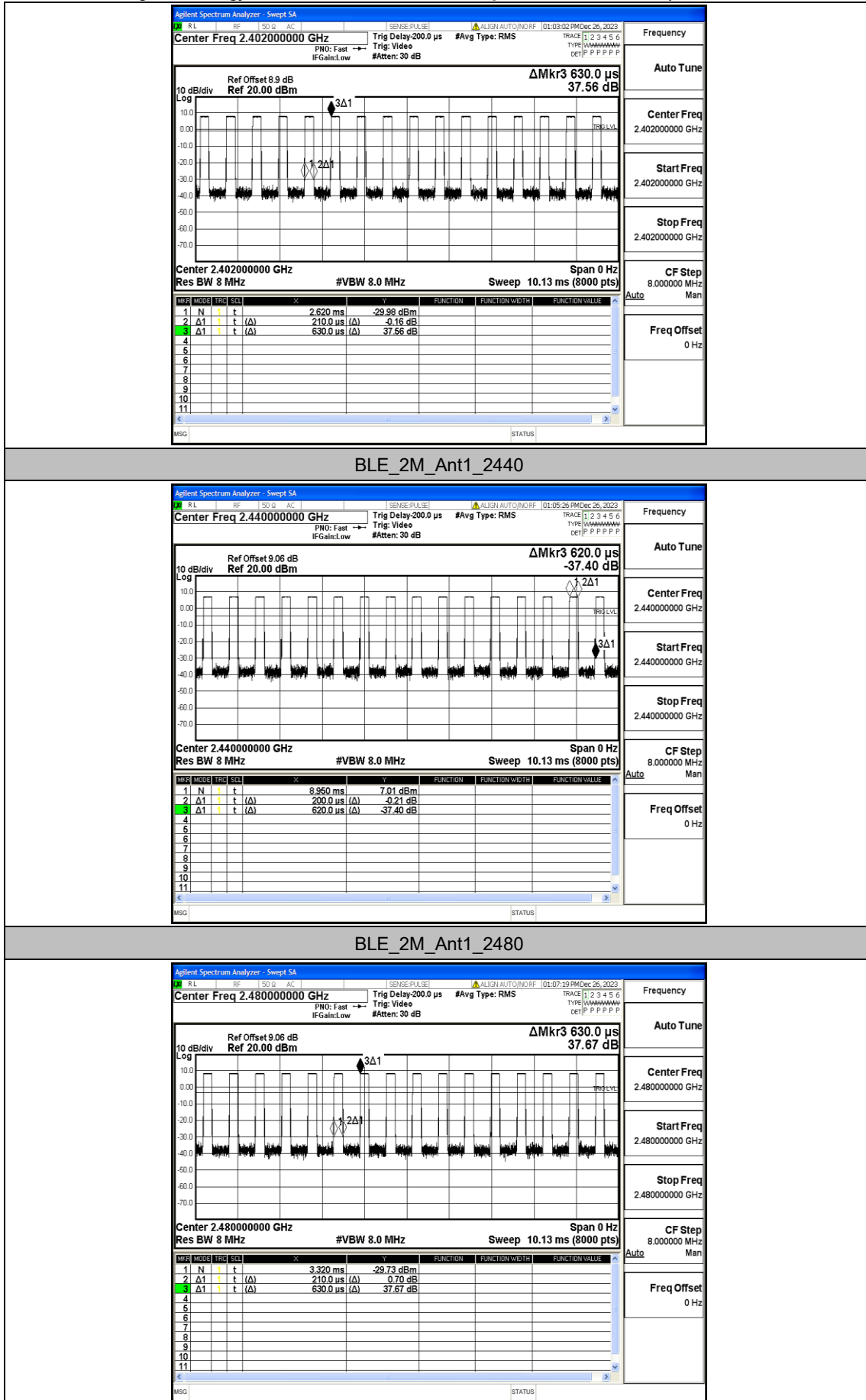
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant1	2402	0.40	1.25	32.00	2.50
		2440	0.40	1.25	32.00	2.50
		2480	0.40	1.25	32.00	2.50
BLE_2M	Ant1	2402	0.21	0.63	33.33	4.76
		2440	0.20	0.62	32.26	5.00
		2480	0.21	0.63	33.33	4.76

Test Graphs





Appendix H: Emissions in Restricted Bands

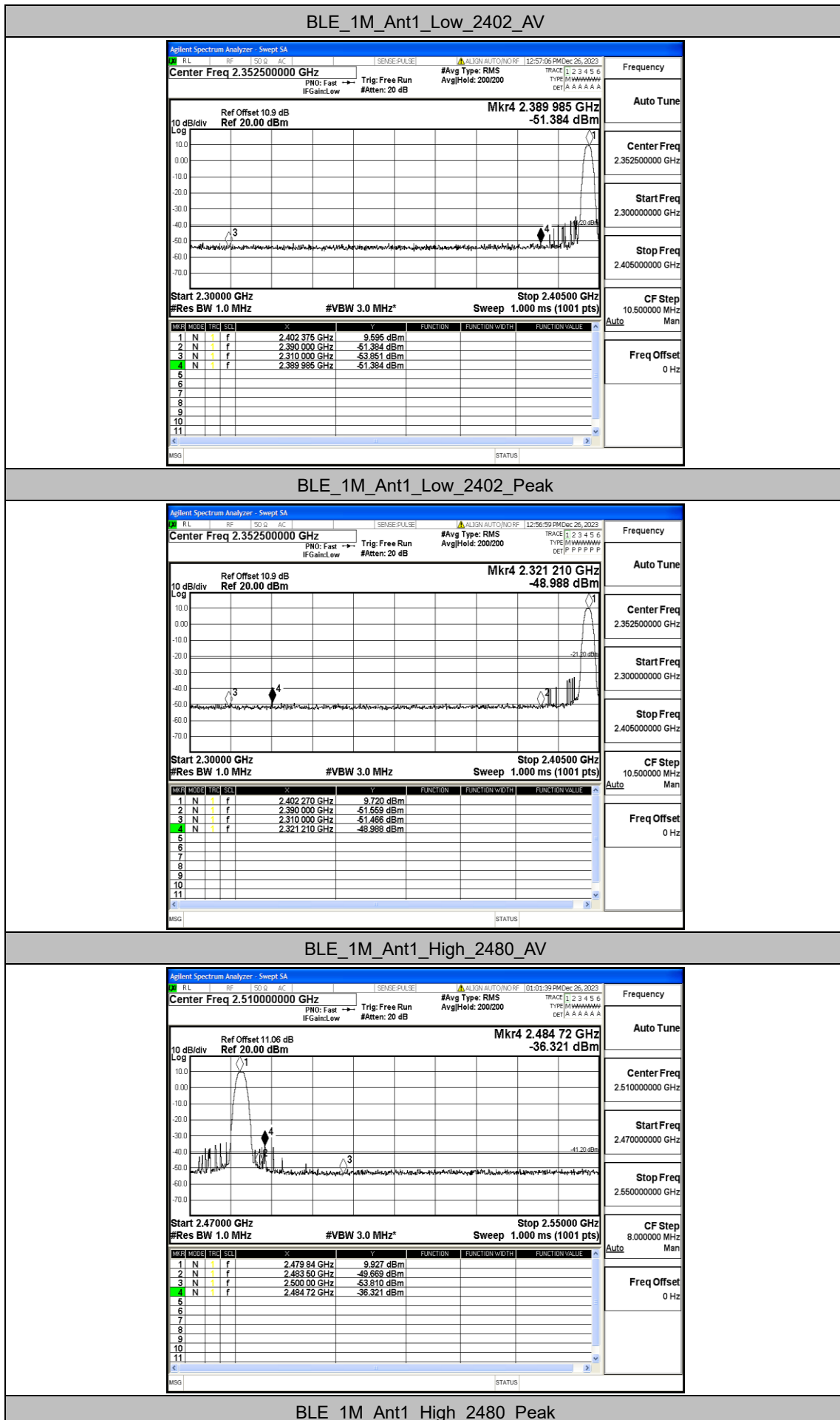
Test Result

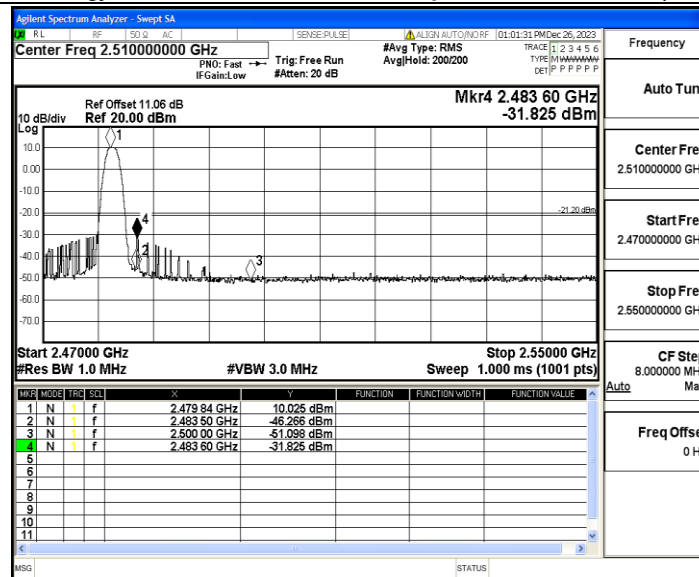
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	Low	2402	AV	2310.000	-53.85	≤-41.20	PASS
				AV	2389.985	-51.38	≤-41.20	PASS
				AV	2390.000	-51.38	≤-41.20	PASS
				Peak	2310.000	-51.47	≤-21.20	PASS
				Peak	2321.210	-48.99	≤-21.20	PASS
				Peak	2390.000	-51.56	≤-21.20	PASS
		High	2480	AV	2483.500	-49.67	≤-41.20	PASS
				AV	2484.720	-36.32	≤-41.20	FAIL
				AV	2500.000	-53.81	≤-41.20	PASS
				Peak	2483.500	-46.27	≤-21.20	PASS
				Peak	2483.600	-31.83	≤-21.20	PASS
				Peak	2500.000	-51.1	≤-21.20	PASS
BLE_2M	Ant1	Low	2402	AV	2310.000	-53.47	≤-41.20	PASS
				AV	2389.355	-48.88	≤-41.20	PASS
				AV	2390.000	-54.05	≤-41.20	PASS
				Peak	2310.000	-52.64	≤-21.20	PASS
				Peak	2389.565	-44.4	≤-21.20	PASS
				Peak	2390.000	-44.44	≤-21.20	PASS
		High	2480	AV	2483.500	-43.72	≤-41.20	PASS
				AV	2485.600	-36.47	≤-41.20	FAIL
				AV	2500.000	-52.36	≤-41.20	PASS
				Peak	2483.500	-39.75	≤-21.20	PASS
				Peak	2483.680	-32.28	≤-21.20	PASS
				Peak	2500.000	-49.91	≤-21.20	PASS

Note:

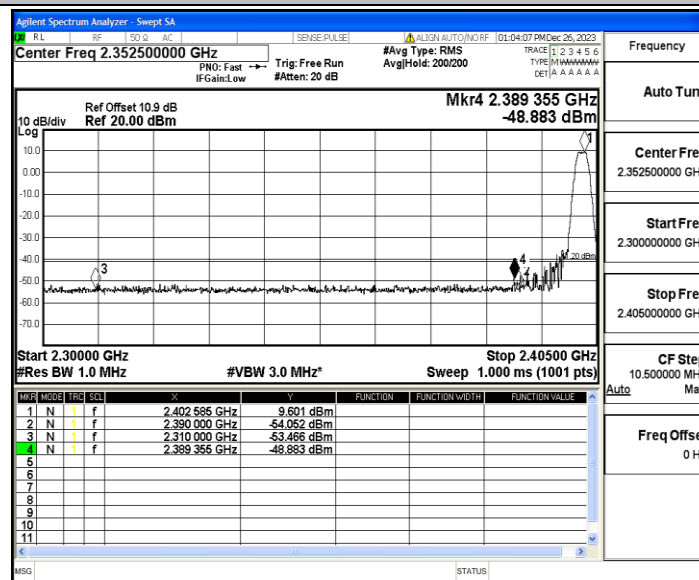
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

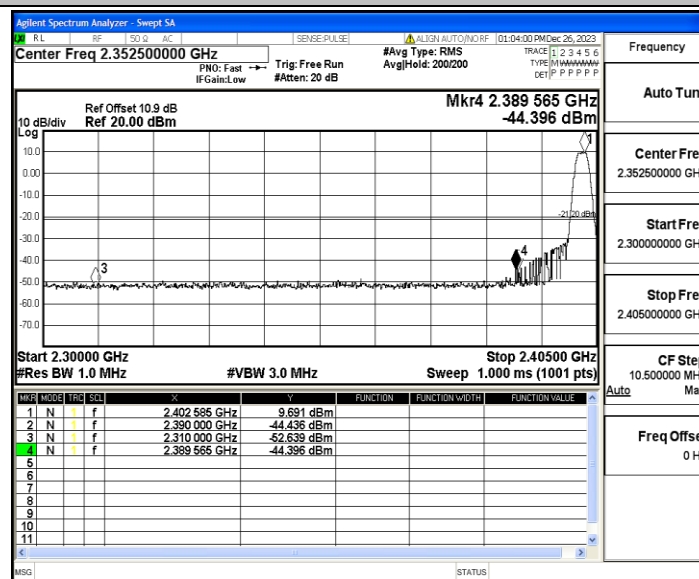




BLE_2M_Ant1_Low_2402_AV



BLE_2M_Ant1_Low_2402_Peak



BLE_2M_Ant1_High_2480_AV

