

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

Product Name: NucBox7

Trade Mark: GMKtec

Test Model: KB7

FCC ID: 2AXUD-KB7

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

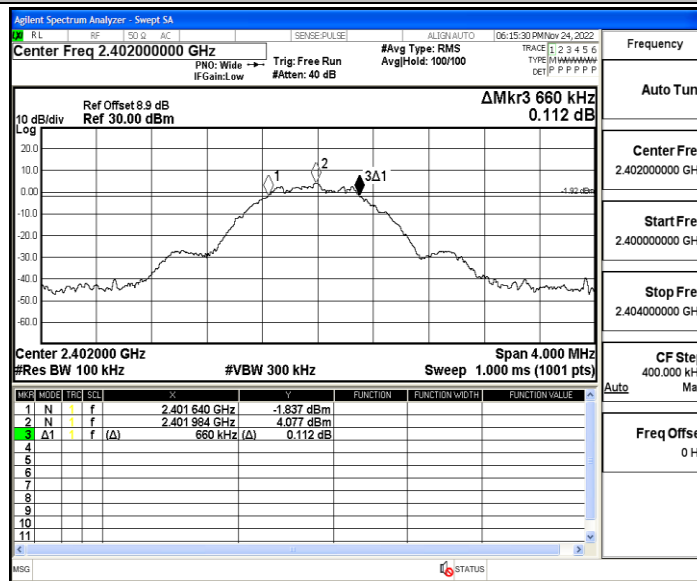
Appendix A: DTS Bandwidth

Test Result

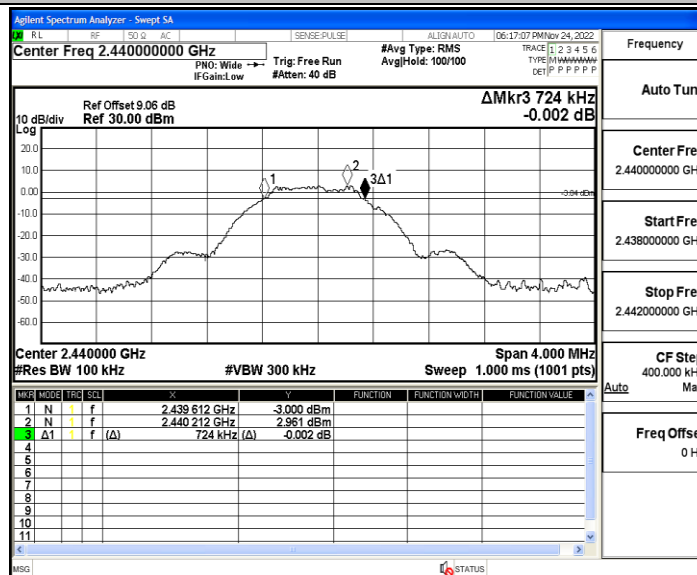
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant2	2402	0.660	2401.640	2402.300	0.5	PASS
		2440	0.724	2439.612	2440.336	0.5	PASS
		2480	0.716	2479.600	2480.316	0.5	PASS
BLE_2M	Ant2	2402	1.112	2401.424	2402.536	0.5	PASS
		2440	1.356	2439.300	2440.656	0.5	PASS
		2480	1.332	2479.296	2480.628	0.5	PASS

Test Graphs

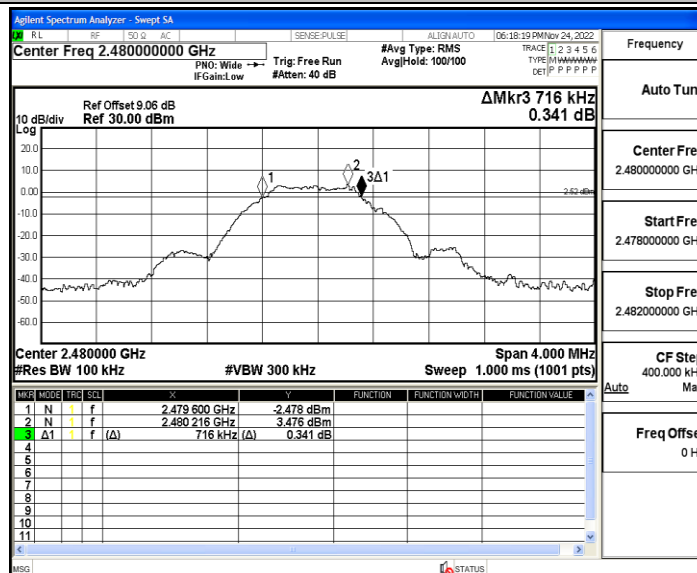
BLE_1M_Ant2_2402



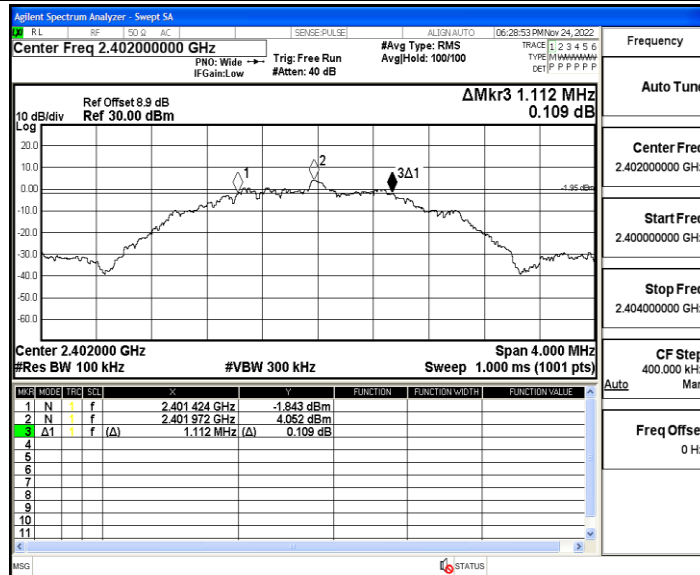
BLE_1M_Ant2_2440



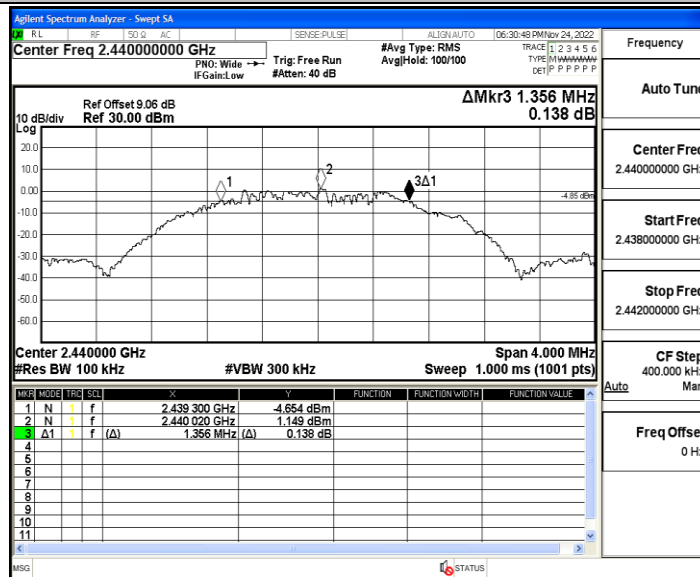
BLE_1M_Ant2_2480



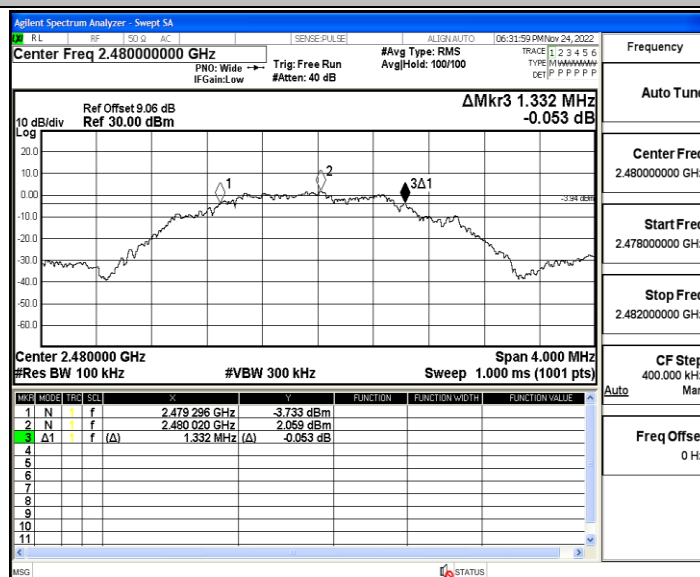
BLE_2M_Ant2_2402



BLE_2M_Ant2_2440



BLE_2M_Ant2_2480



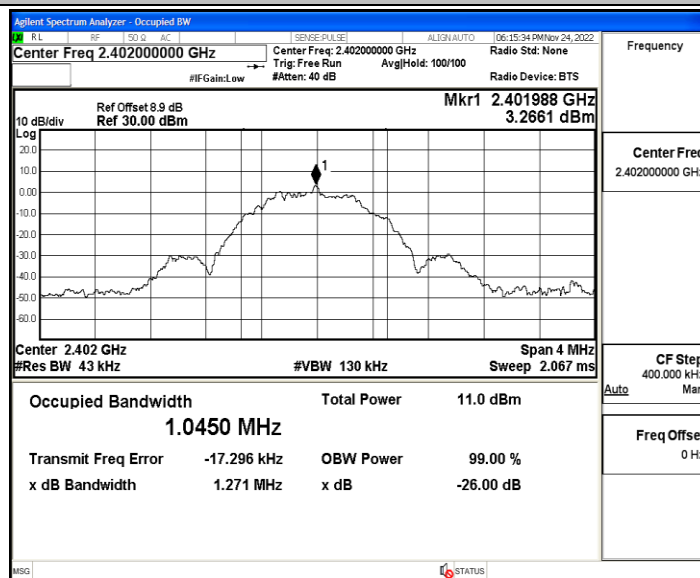
Appendix B: Occupied Channel Bandwidth

Test Result

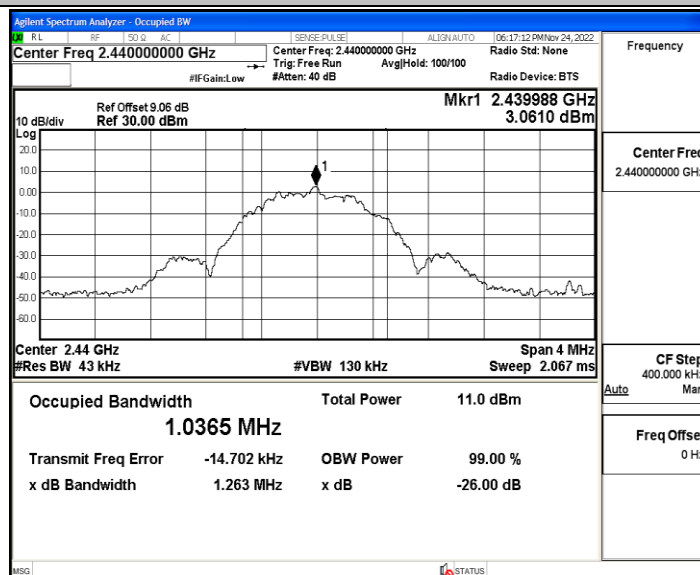
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant2	2402	1.0450	2401.4602	2402.5052	---	---
		2440	1.0365	2439.4671	2440.5036	---	---
		2480	1.0413	2479.4601	2480.5014	---	---
BLE_2M	Ant2	2402	2.0478	2400.9719	2403.0197	---	---
		2440	2.0574	2438.9676	2441.0250	---	---
		2480	2.0432	2478.9786	2481.0218	---	---

Test Graphs

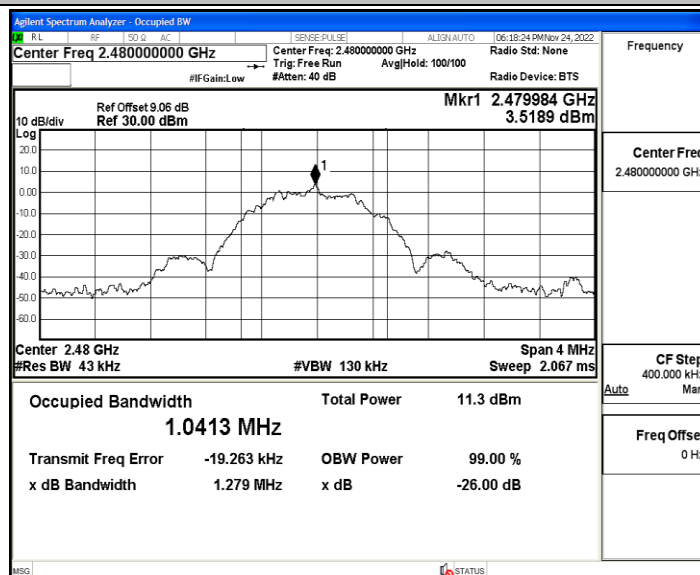
BLE_1M_Ant2_2402



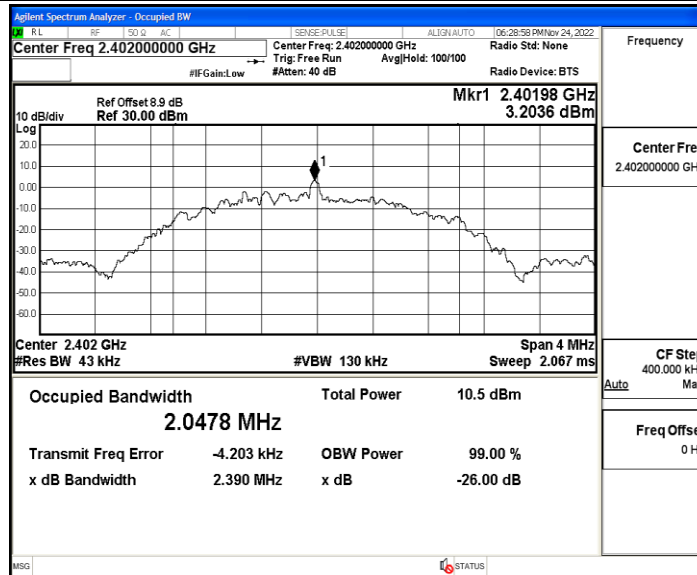
BLE_1M_Ant2_2440



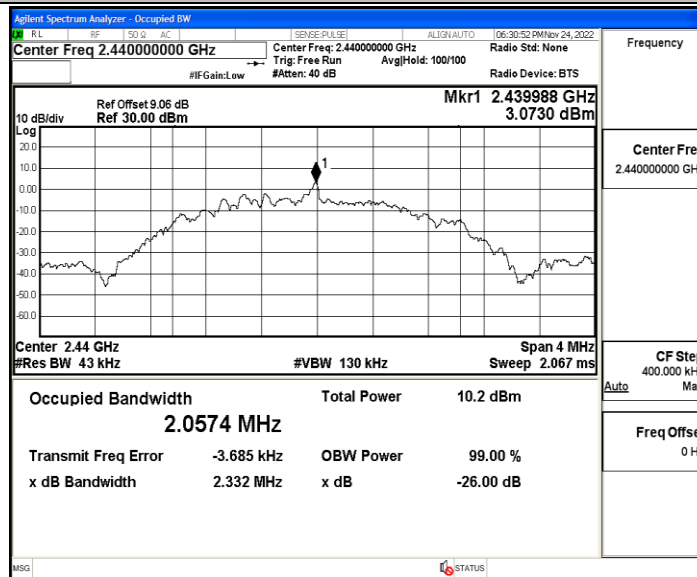
BLE_1M_Ant2_2480



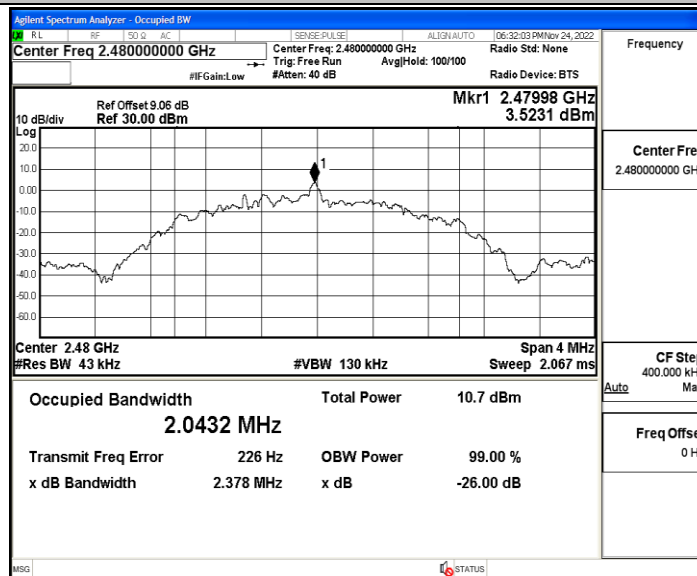
BLE_2M_Ant2_2402



BLE_2M_Ant2_2440



BLE_2M_Ant2_2480



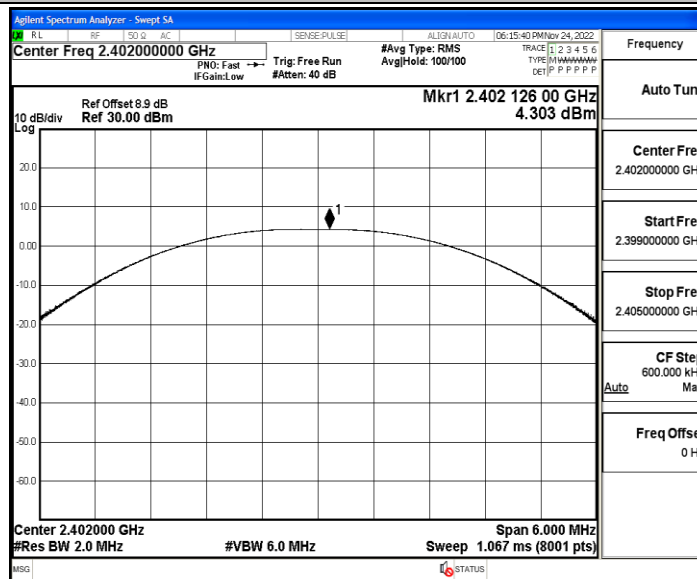
Appendix C: Maximum Peak conducted output power

Test Result

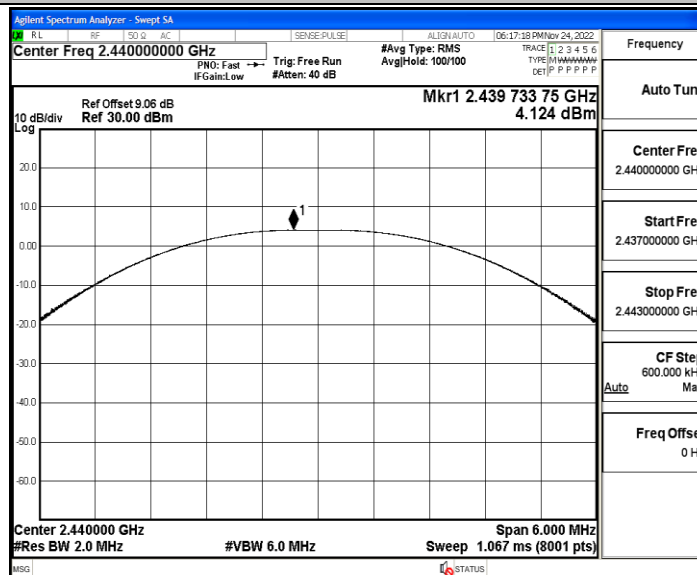
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant2	2402	4.3	≤30	PASS
		2440	4.12	≤30	PASS
		2480	4.6	≤30	PASS
BLE_2M	Ant2	2402	4.3	≤30	PASS
		2440	4.14	≤30	PASS
		2480	4.58	≤30	PASS

Test Graphs

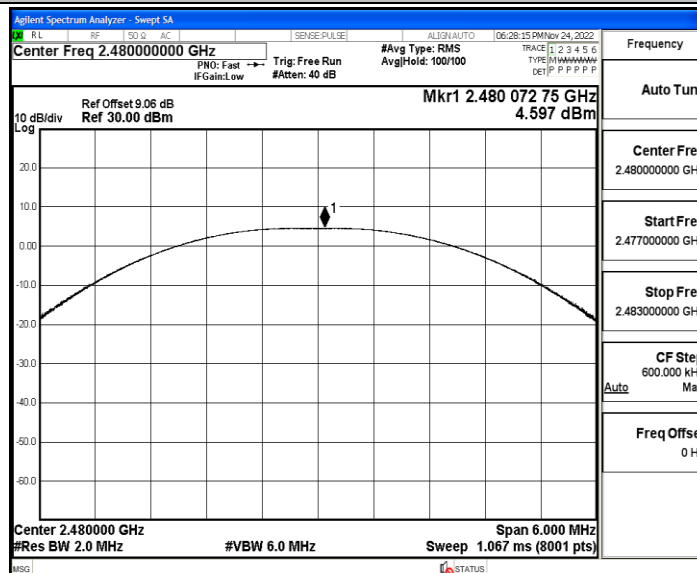
BLE_1M_Ant2_2402



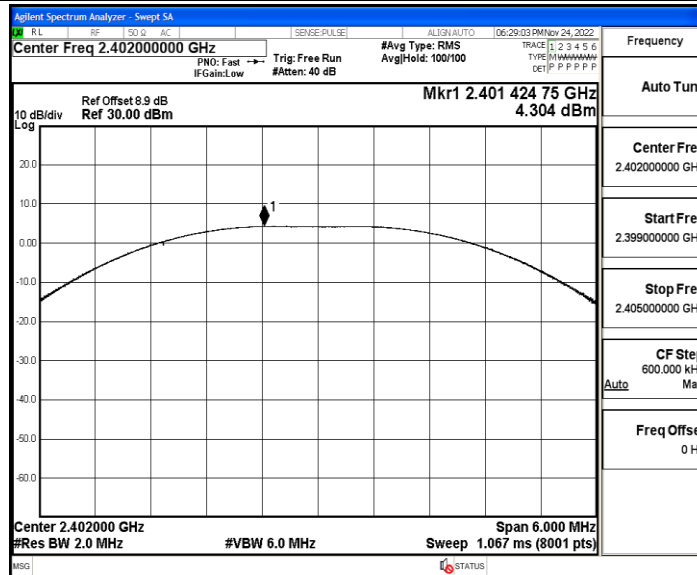
BLE_1M_Ant2_2440



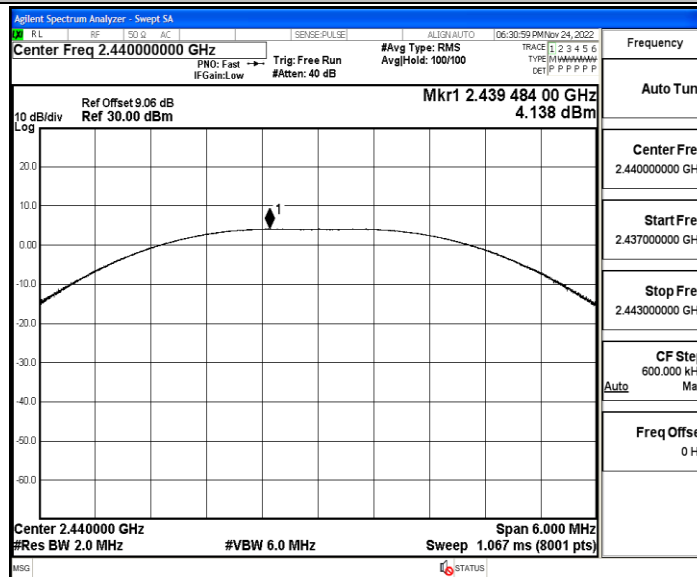
BLE_1M_Ant2_2480



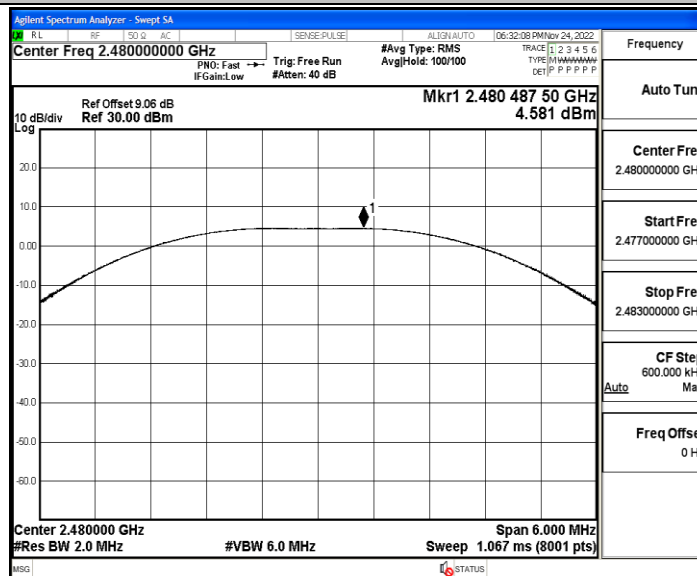
BLE_2M_Ant2_2402



BLE_2M_Ant2_2440



BLE_2M_Ant2_2480



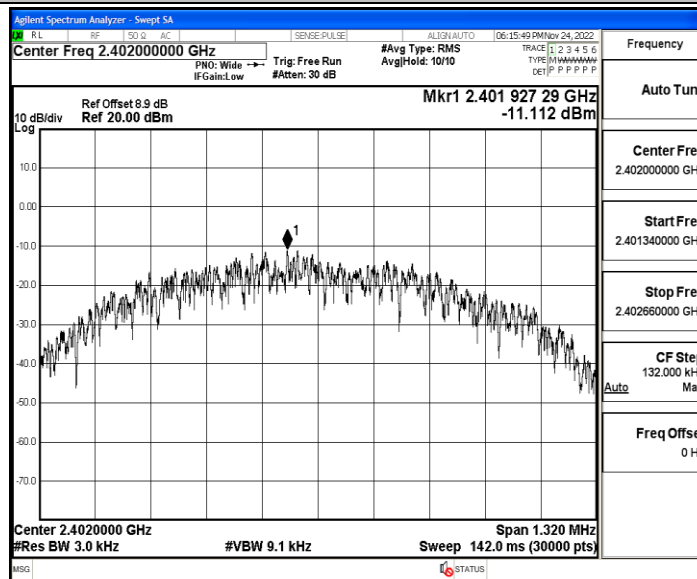
Appendix D: Maximum power spectral density

Test Result

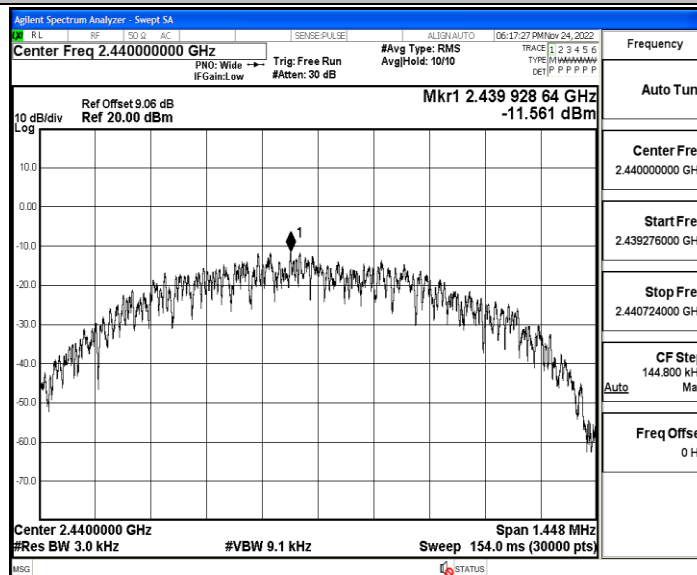
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant2	2402	-11.11	≤8.00	PASS
		2440	-11.56	≤8.00	PASS
		2480	-11.39	≤8.00	PASS
BLE_2M	Ant2	2402	-13.59	≤8.00	PASS
		2440	-13.81	≤8.00	PASS
		2480	-12.95	≤8.00	PASS

Test Graphs

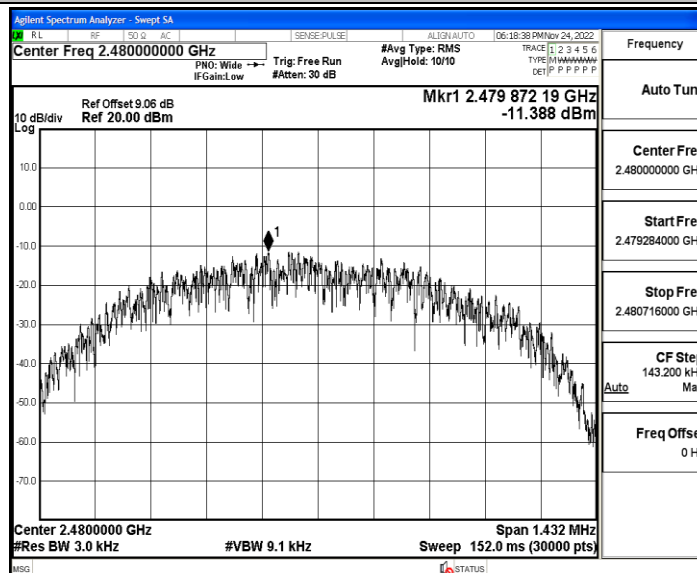
BLE_1M_Ant2_2402



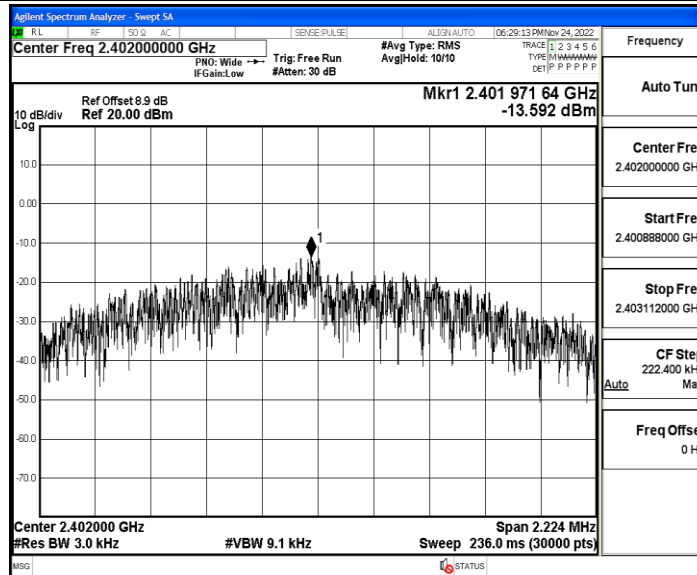
BLE_1M_Ant2_2440



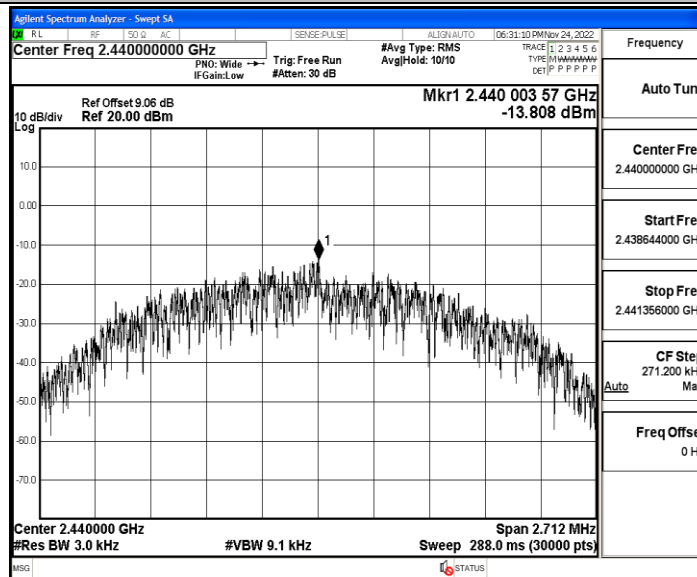
BLE_1M_Ant2_2480



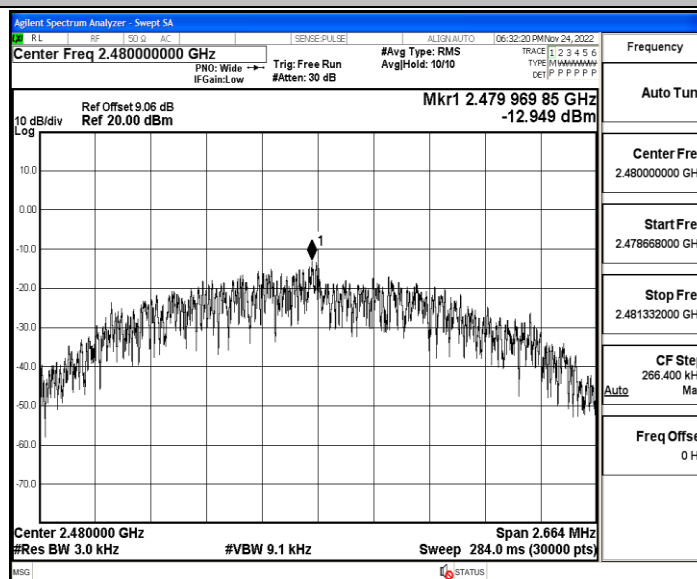
BLE_2M_Ant2_2402



BLE_2M_Ant2_2440



BLE_2M_Ant2_2480



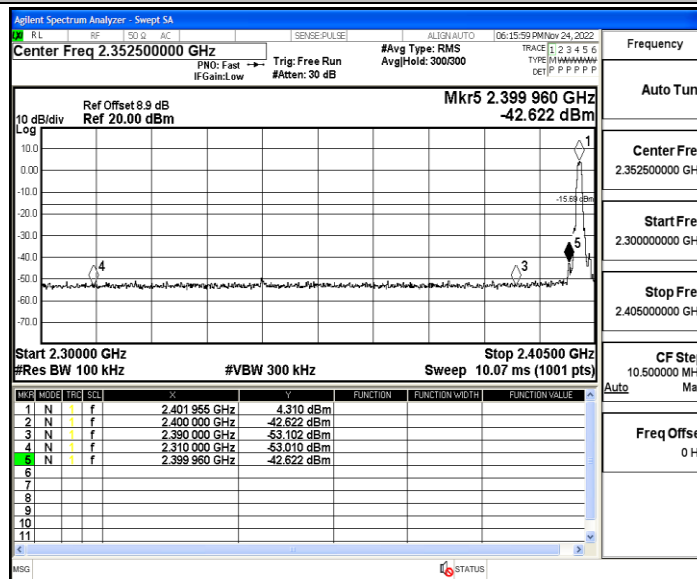
Appendix E: Band edge measurements

Test Result

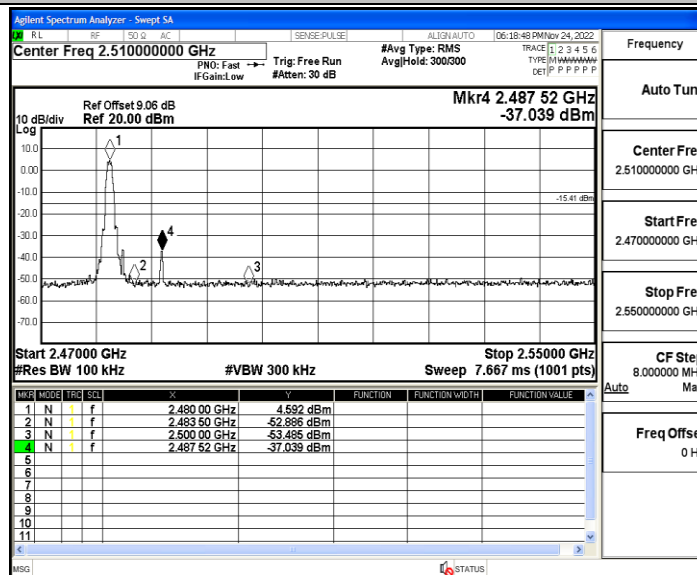
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant2	Low	2402	4.31	-42.62	≤-15.69	PASS
		High	2480	4.59	-37.04	≤-15.41	PASS
BLE_2M	Ant2	Low	2402	4.23	-27.5	≤-15.77	PASS
		High	2480	4.43	-37.41	≤-15.57	PASS

Test Graphs

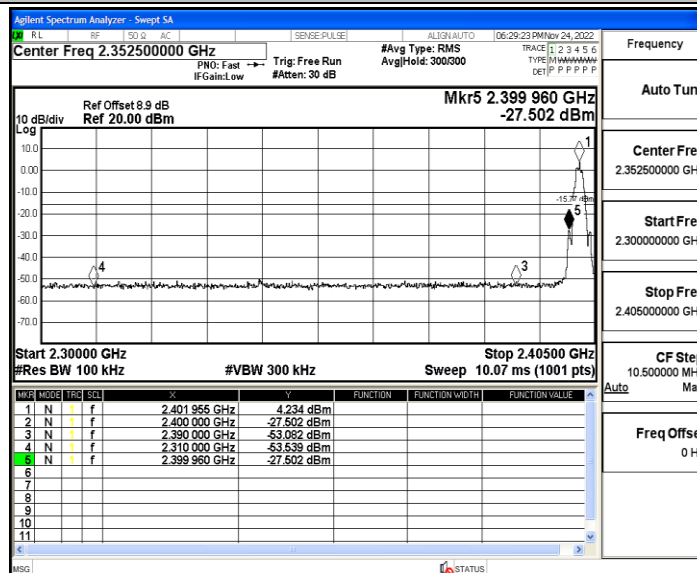
BLE_1M_Ant2_Low_2402



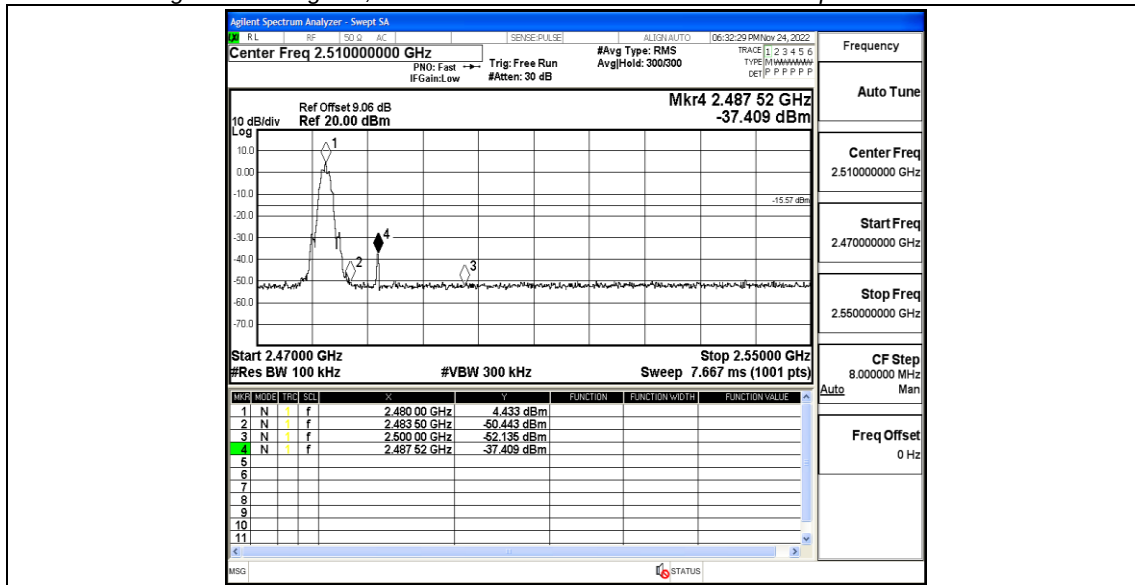
BLE_1M_Ant2_High_2480



BLE_2M_Ant2_Low_2402



BLE_2M_Ant2_High_2480



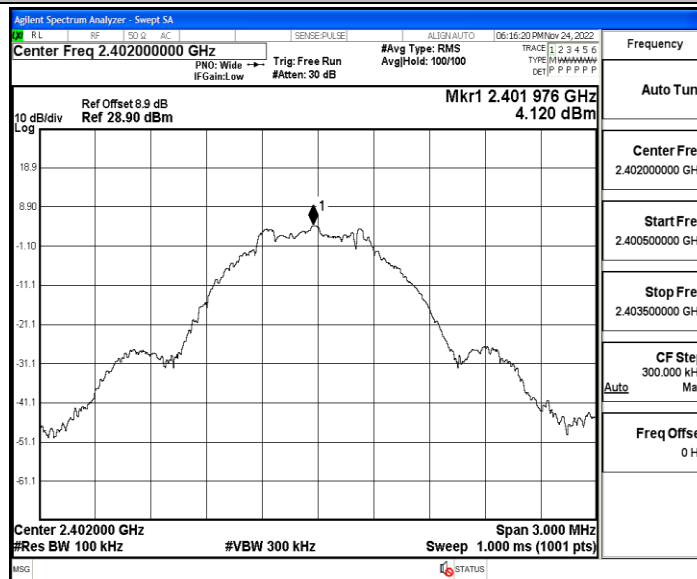
Appendix F: Conducted Spurious Emission

Test Result

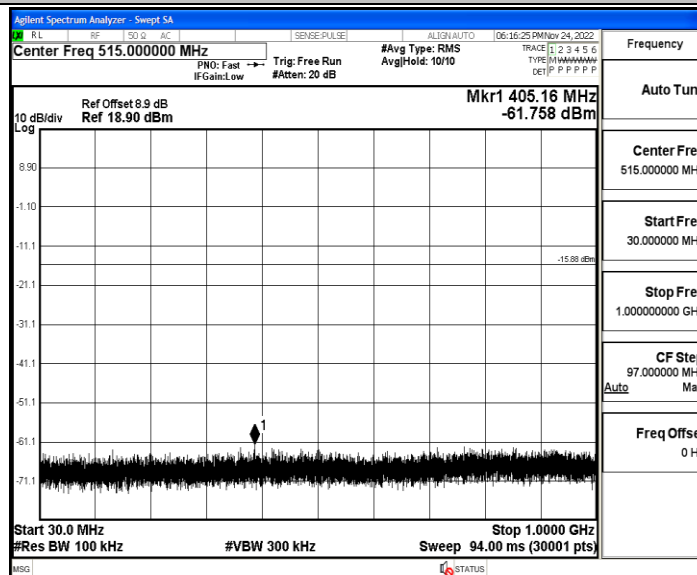
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant2	2402	Reference	4.12	4.12	---	PASS
			30~1000	4.12	-61.76	≤-15.88	PASS
			1000~26500	4.12	-51.24	≤-15.88	PASS
		2440	Reference	3.92	3.92	---	PASS
			30~1000	3.92	-61.03	≤-16.08	PASS
			1000~26500	3.92	-51.63	≤-16.08	PASS
		2480	Reference	4.42	4.42	---	PASS
			30~1000	4.42	-61.5	≤-15.58	PASS
			1000~26500	4.42	-51.49	≤-15.58	PASS
BLE_2M	Ant2	2402	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-62.09	≤-15.86	PASS
			1000~26500	4.14	-52.18	≤-15.86	PASS
		2440	Reference	3.54	3.54	---	PASS
			30~1000	3.54	-61.44	≤-16.46	PASS
			1000~26500	3.54	-51.38	≤-16.46	PASS
		2480	Reference	4.38	4.38	---	PASS
			30~1000	4.38	-61.91	≤-15.62	PASS
			1000~26500	4.38	-51.2	≤-15.62	PASS

Test Graphs

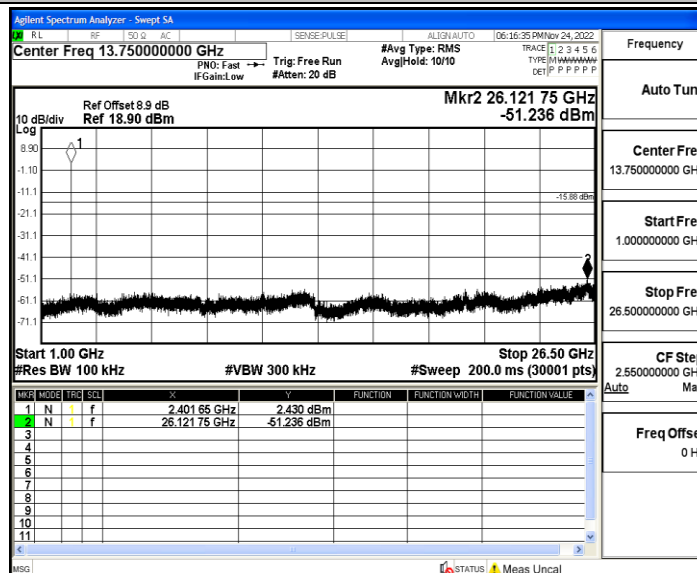
BLE_1M_Ant2_2402_0~Reference



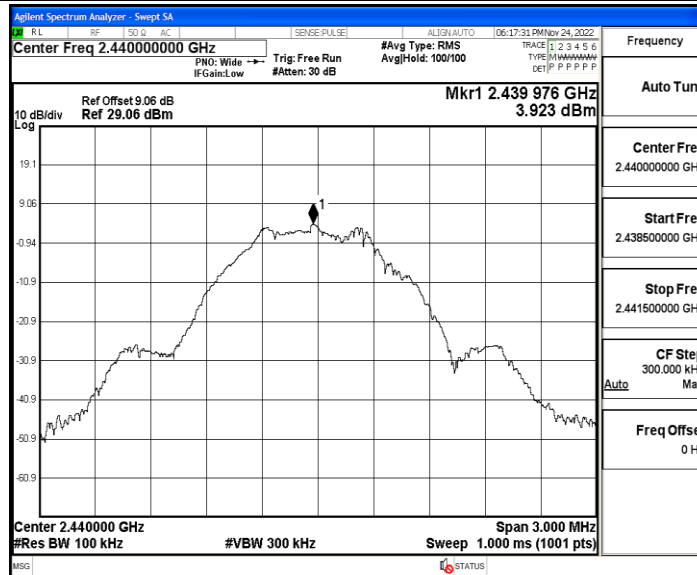
BLE_1M_Ant2_2402_30~1000



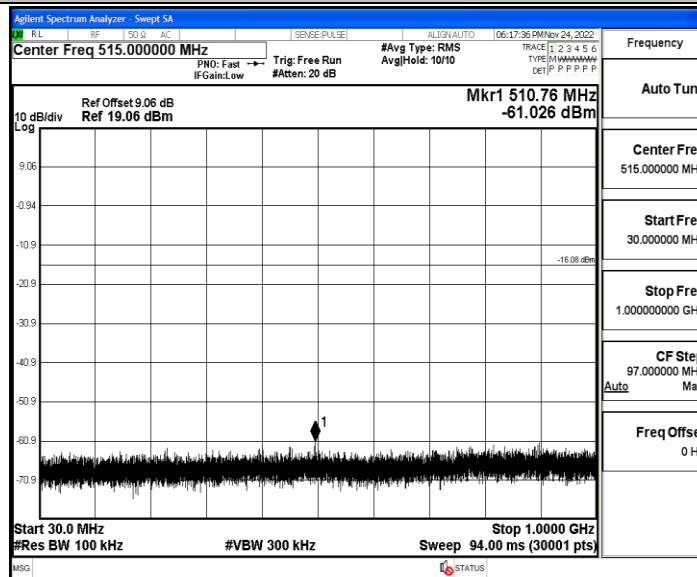
BLE_1M_Ant2_2402_1000~26500



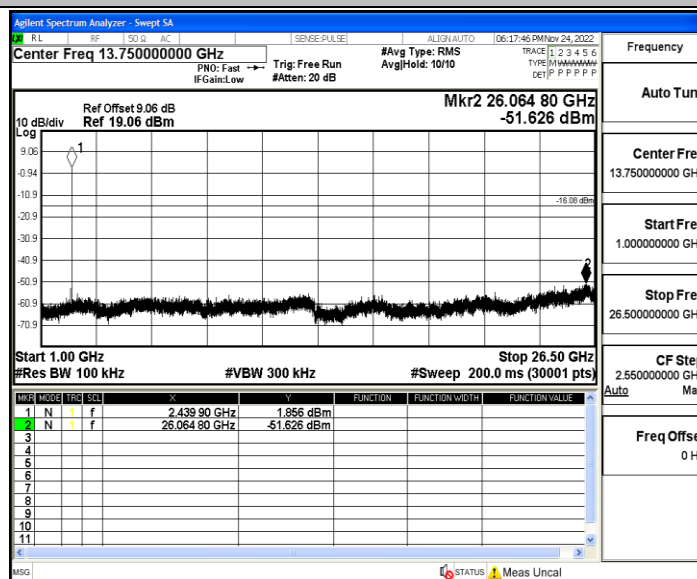
BLE_1M_Ant2_2440_0~Reference



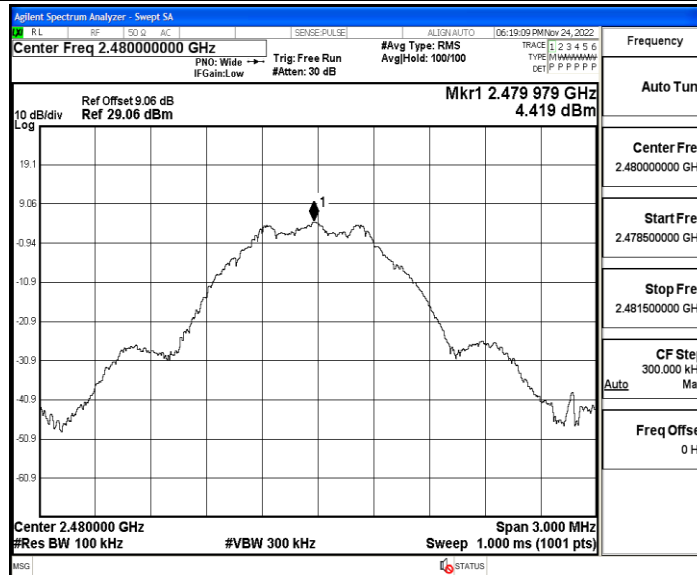
BLE_1M_Ant2_2440_30~1000



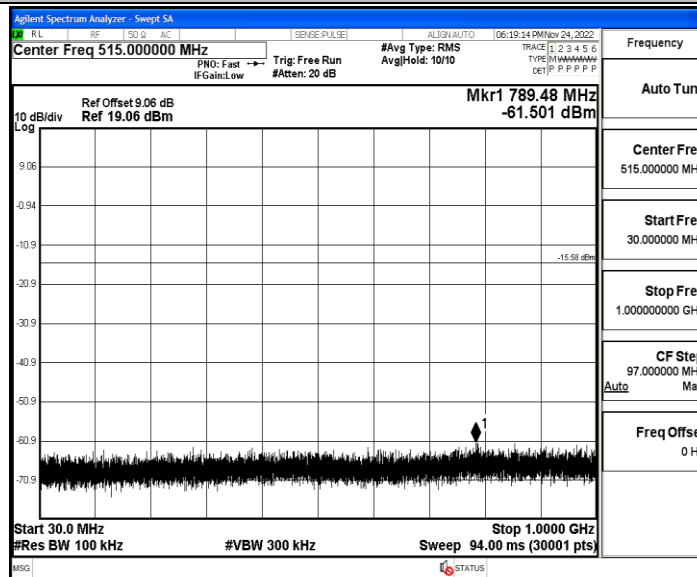
BLE_1M_Ant2_2440_1000~26500



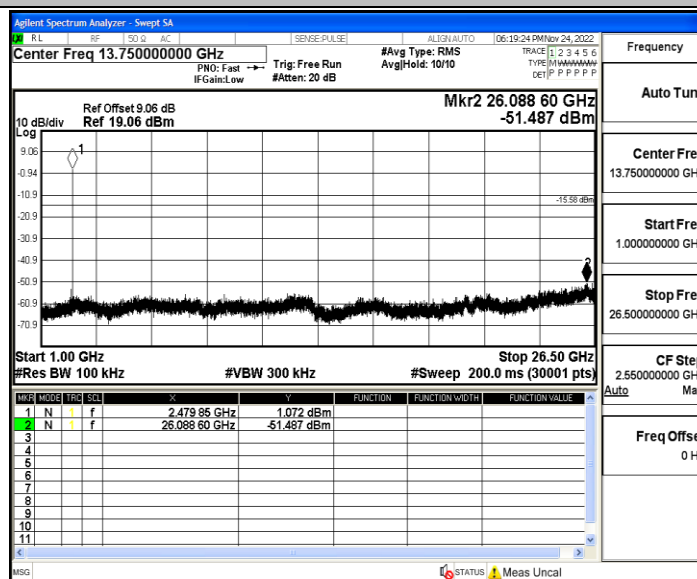
BLE_1M_Ant2_2480_0~Reference



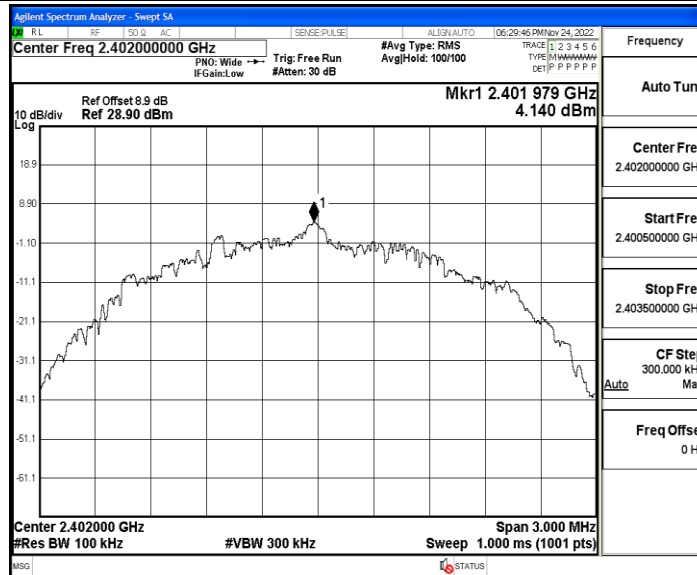
BLE_1M_Ant2_2480_30~1000



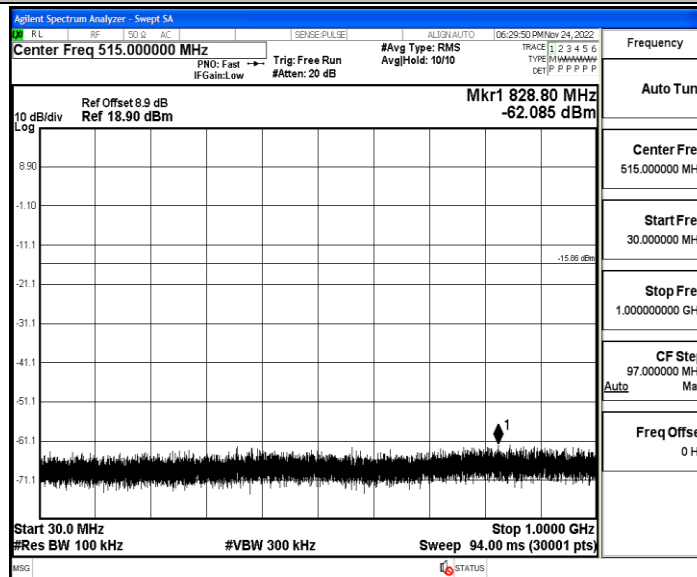
BLE_1M_Ant2_2480_1000~26500



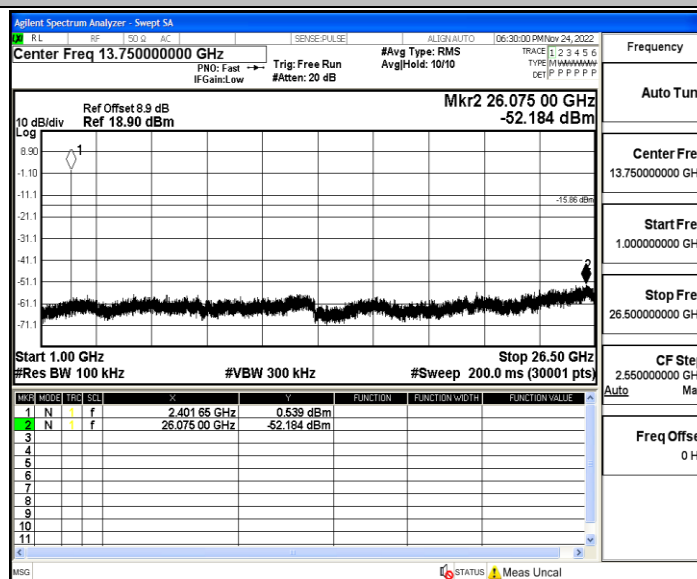
BLE_2M_Ant2_2402_0~Reference



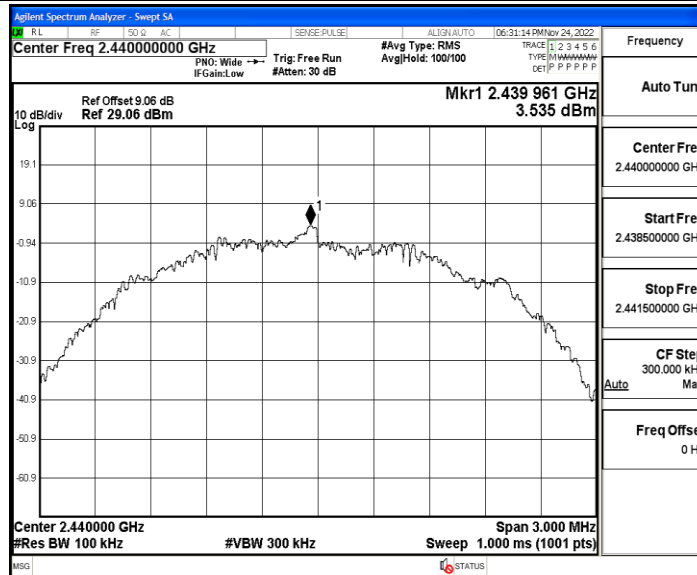
BLE_2M_Ant2_2402_30~1000



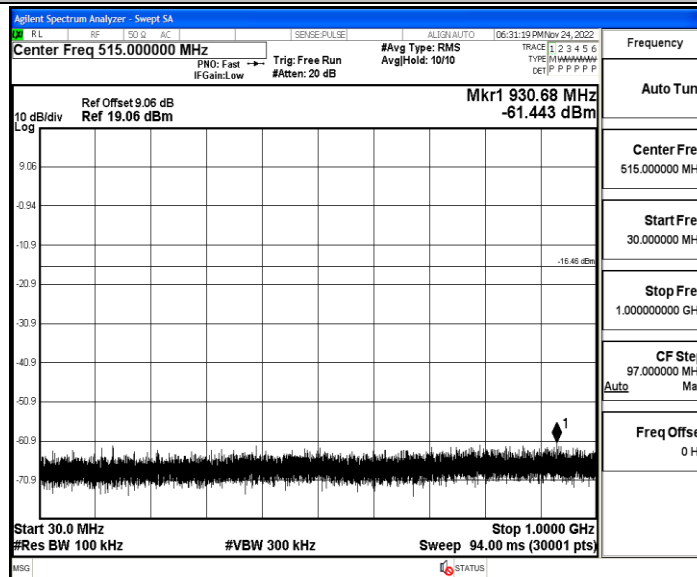
BLE_2M_Ant2_2402_1000~26500



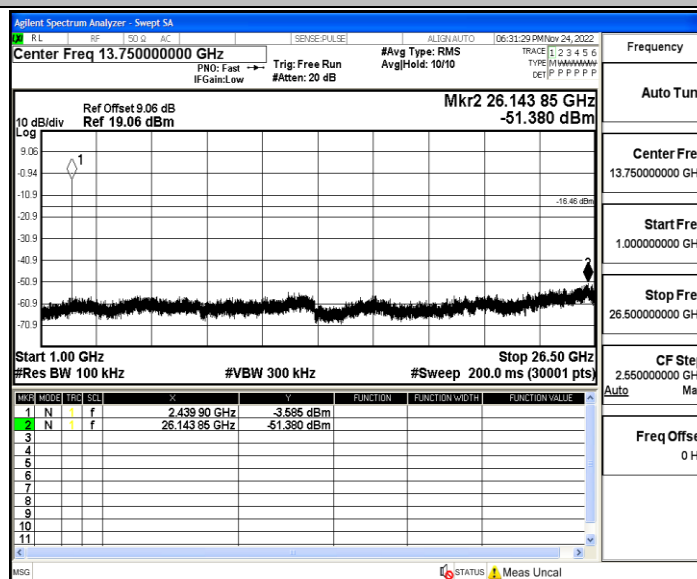
BLE_2M_Ant2_2440_0~Reference



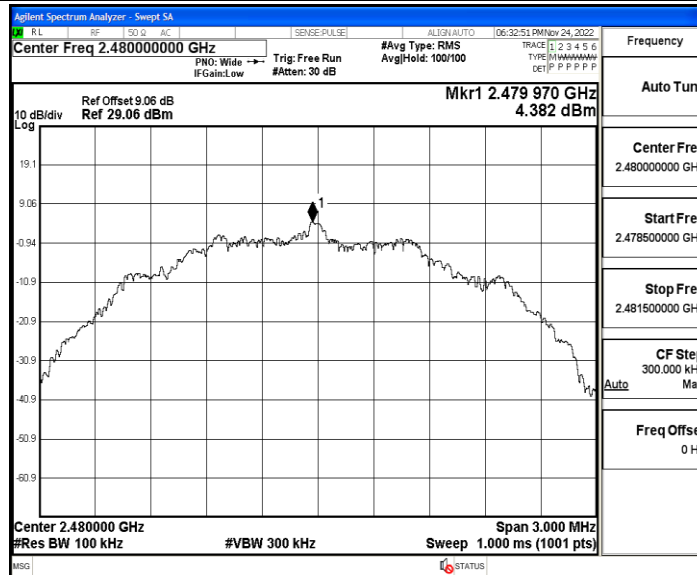
BLE_2M_Ant2_2440_30~1000



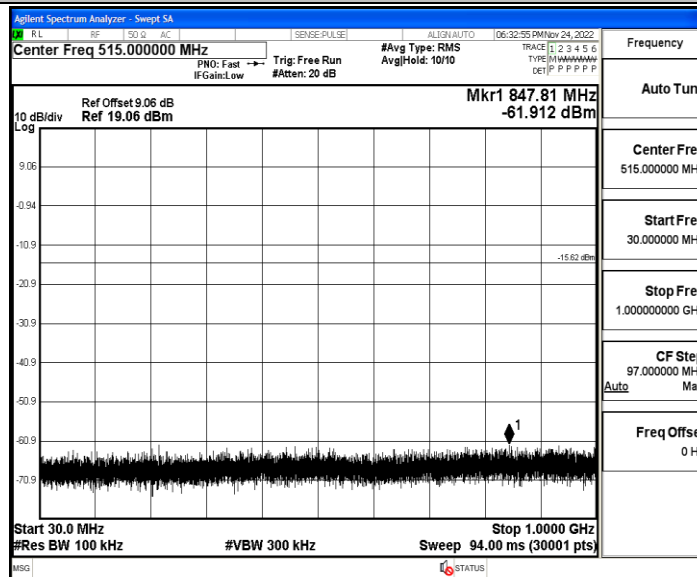
BLE_2M_Ant2_2440_1000~26500



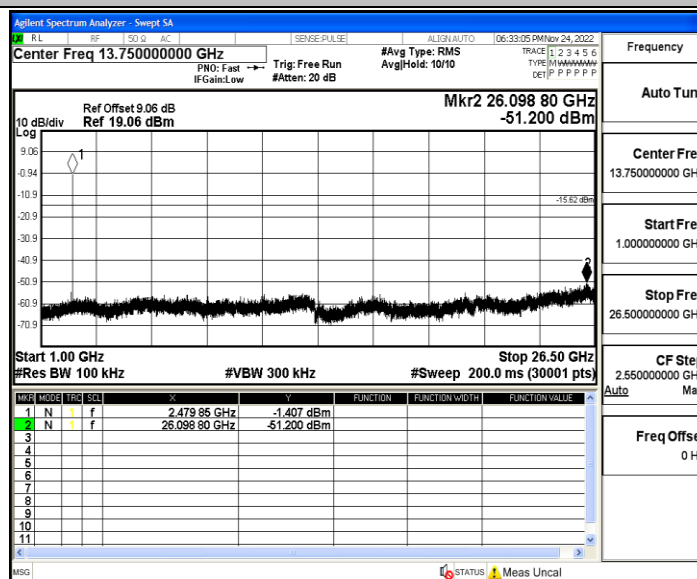
BLE_2M_Ant2_2480_0~Reference



BLE_2M_Ant2_2480_30~1000



BLE_2M_Ant2_2480_1000~26500



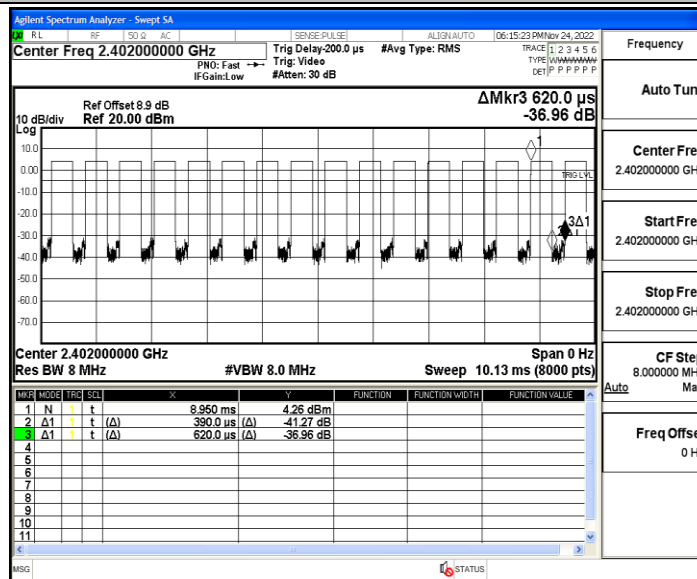
Appendix G: Duty Cycle

Test Result

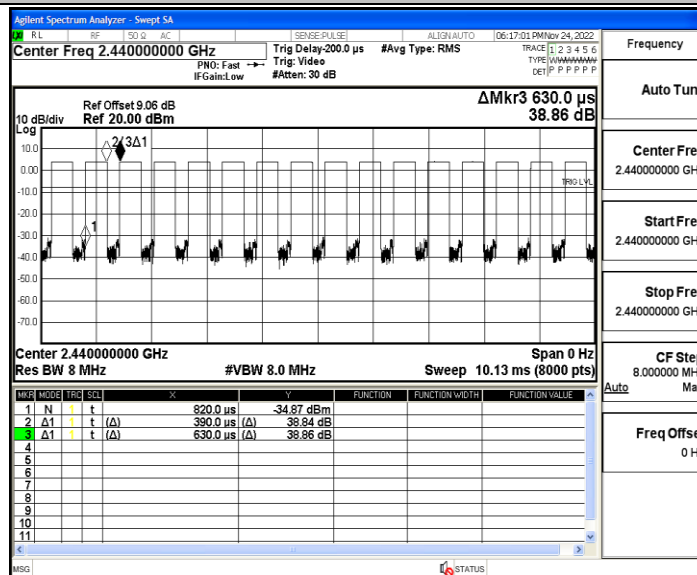
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
BLE_1M	Ant2	2402	0.39	0.62	62.90	2.56
		2440	0.39	0.63	61.90	2.56
		2480	0.39	0.62	62.90	2.56
BLE_2M	Ant2	2402	0.21	0.63	33.33	4.76
		2440	0.21	0.63	33.33	4.76
		2480	0.21	0.63	33.33	4.76

Test Graphs

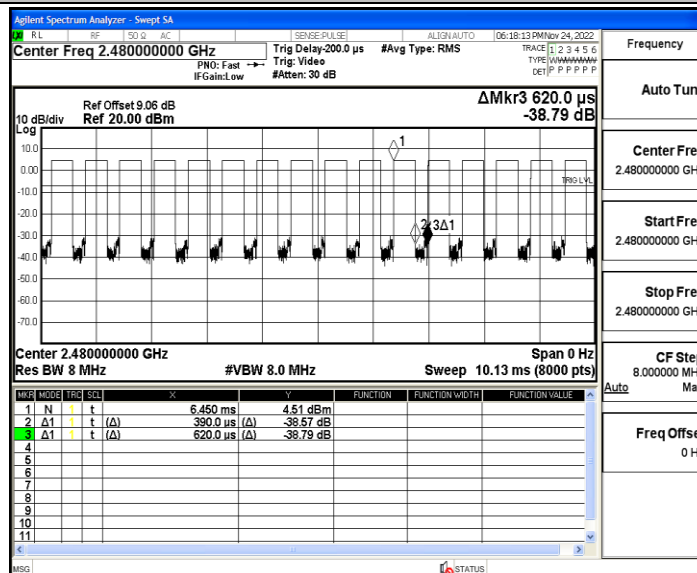
BLE_1M_Ant2_2402



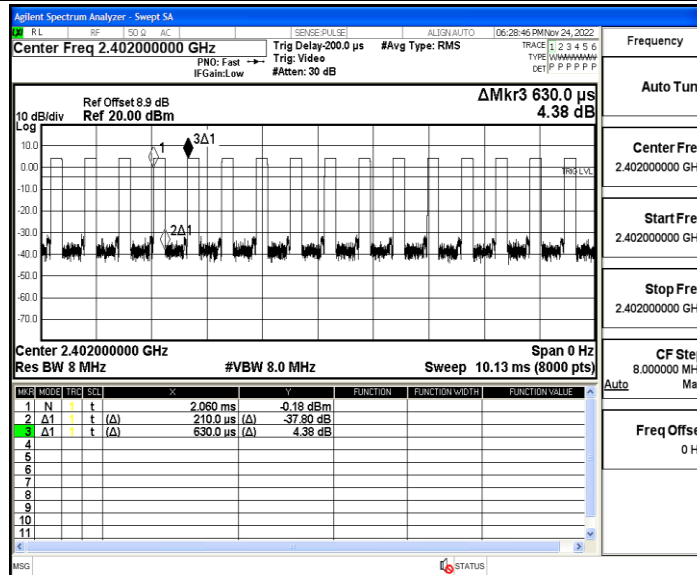
BLE_1M_Ant2_2440



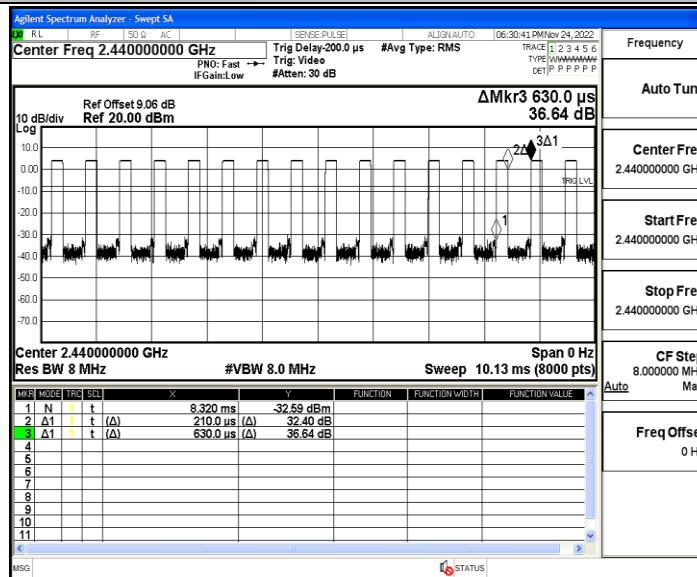
BLE_1M_Ant2_2480



BLE_2M_Ant2_2402



BLE_2M_Ant2_2440



BLE_2M_Ant2_2480

