

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth Speaker

Trade Mark:  XINJI

Test Model: SHARK S1

FCC ID: 2AE8V-SHARKS1

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

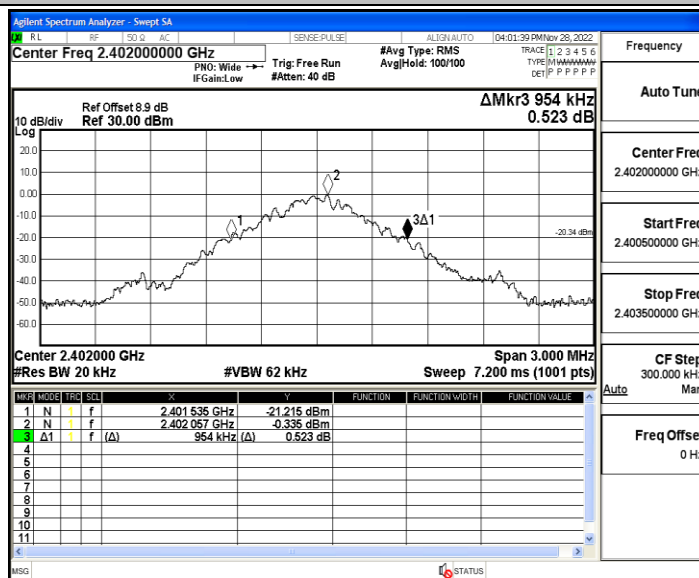
Appendix A: 20dB Emission Bandwidth

Test Result

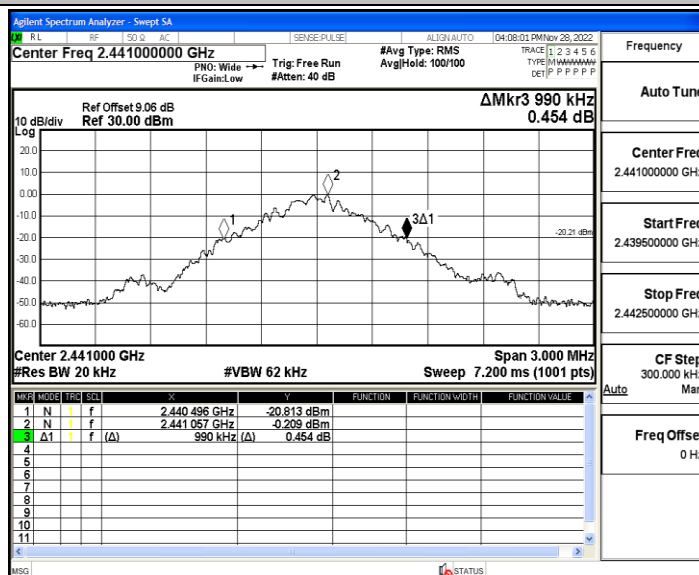
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.535	2402.489	---	---
		2441	0.990	2440.496	2441.486	---	---
		2480	0.939	2479.535	2480.474	---	---
2DH5	Ant1	2402	1.251	2401.376	2402.627	---	---
		2441	1.308	2440.340	2441.648	---	---
		2480	1.344	2479.328	2480.672	---	---
3DH5	Ant1	2402	1.248	2401.361	2402.609	---	---
		2441	1.269	2440.349	2441.618	---	---
		2480	1.248	2479.361	2480.609	---	---

Test Graphs

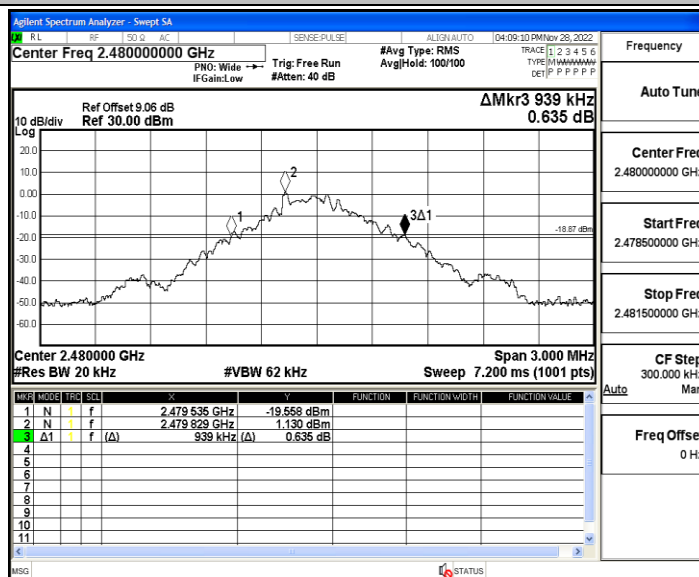
DH5_Ant1_2402



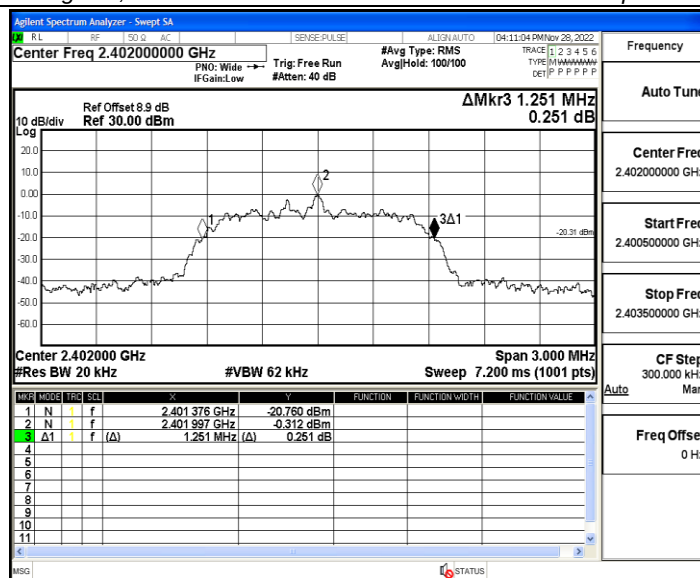
DH5_Ant1_2441



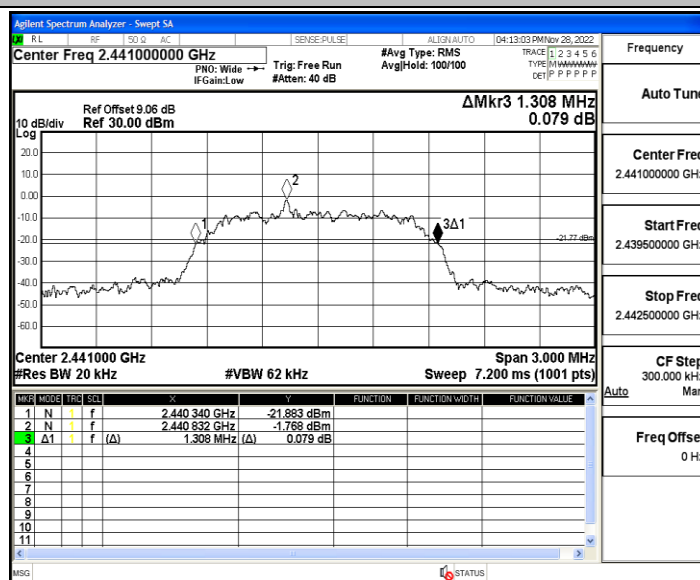
DH5_Ant1_2480



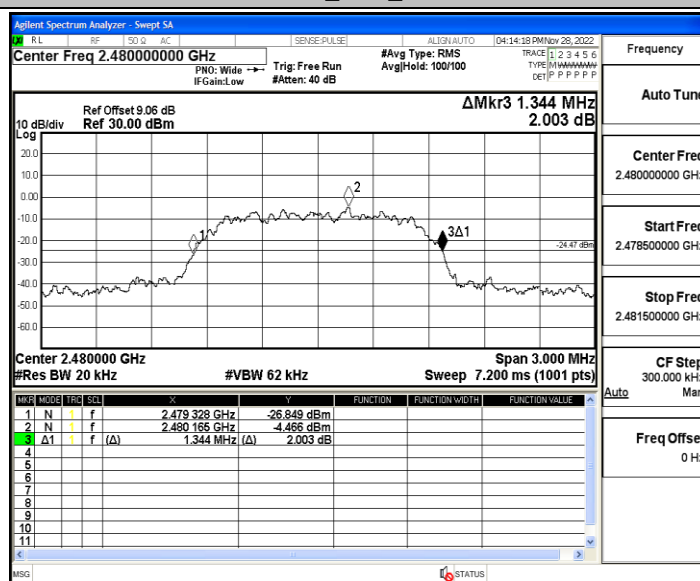
2DH5_Ant1_2402



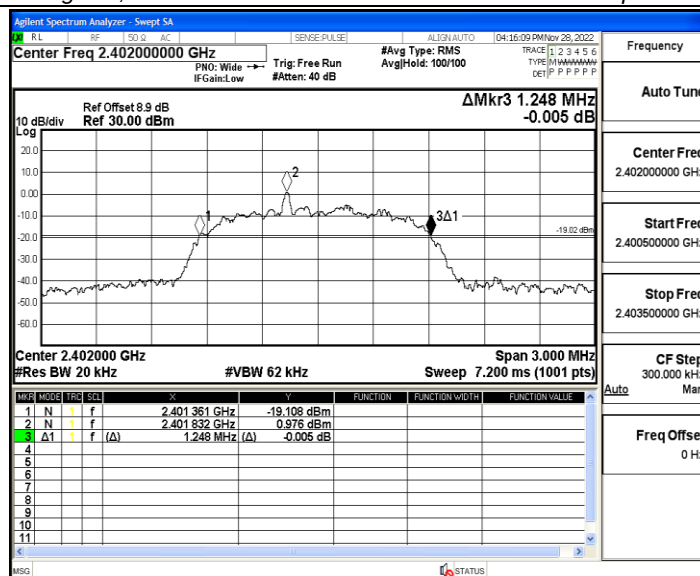
2DH5_Ant1_2441



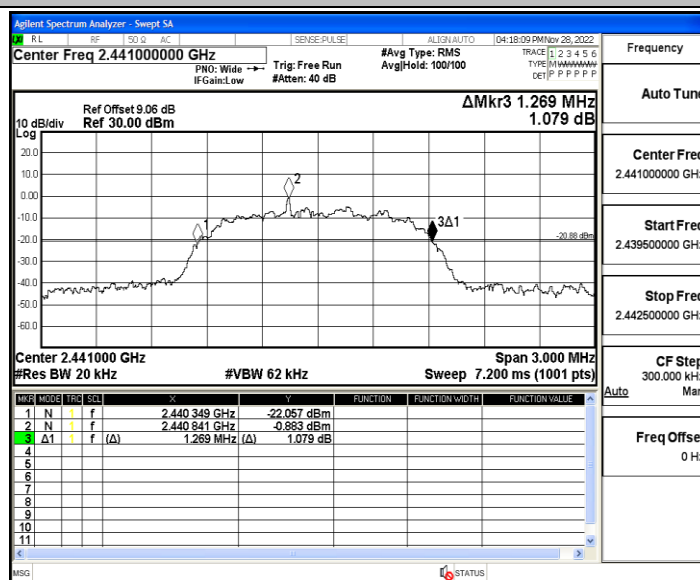
2DH5_Ant1_2480



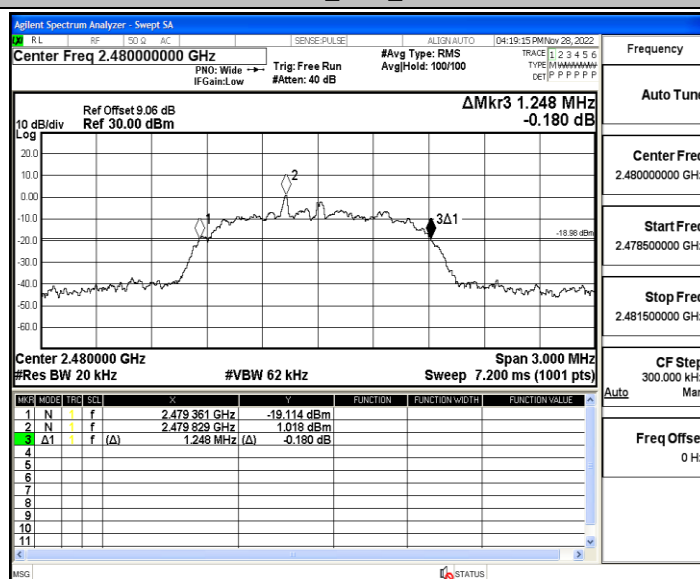
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



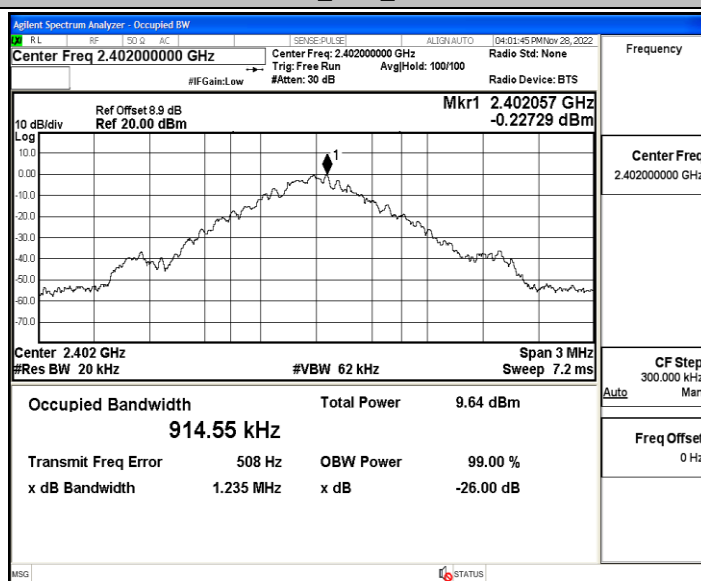
Appendix B: Occupied Channel Bandwidth

Test Result

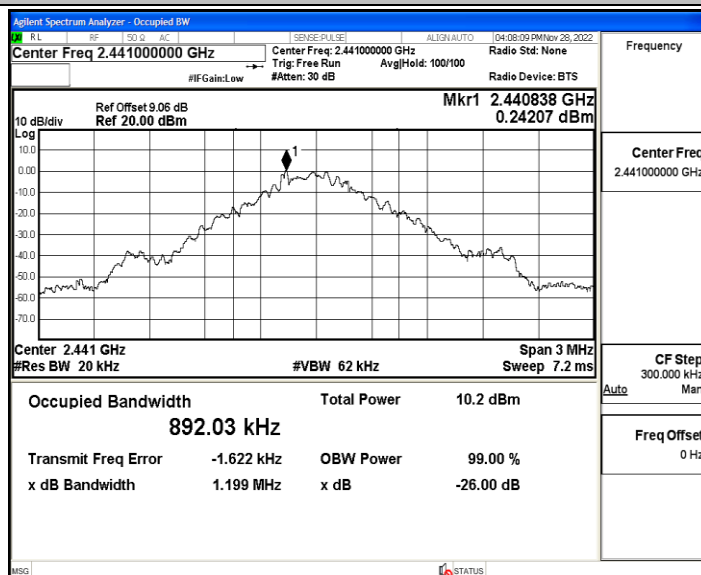
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.91455	2401.5432	2402.4578	---	---
		2441	0.89203	2440.5524	2441.4444	---	---
		2480	0.89908	2479.5464	2480.4455	---	---
2DH5	Ant1	2402	1.1815	2401.4059	2402.5874	---	---
		2441	1.1767	2440.4071	2441.5838	---	---
		2480	1.1809	2479.4054	2480.5863	---	---
3DH5	Ant1	2402	1.1896	2401.3963	2402.5859	---	---
		2441	1.1879	2440.3975	2441.5854	---	---
		2480	1.1738	2479.4074	2480.5812	---	---

Test Graphs

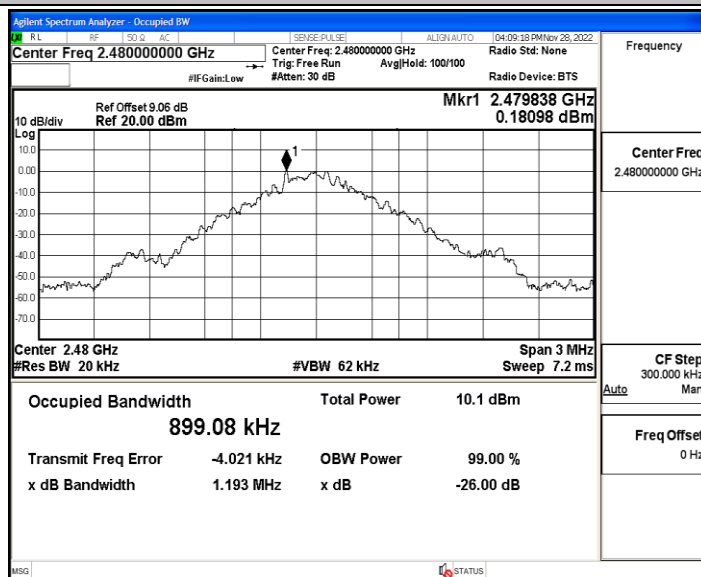
DH5_Ant1_2402



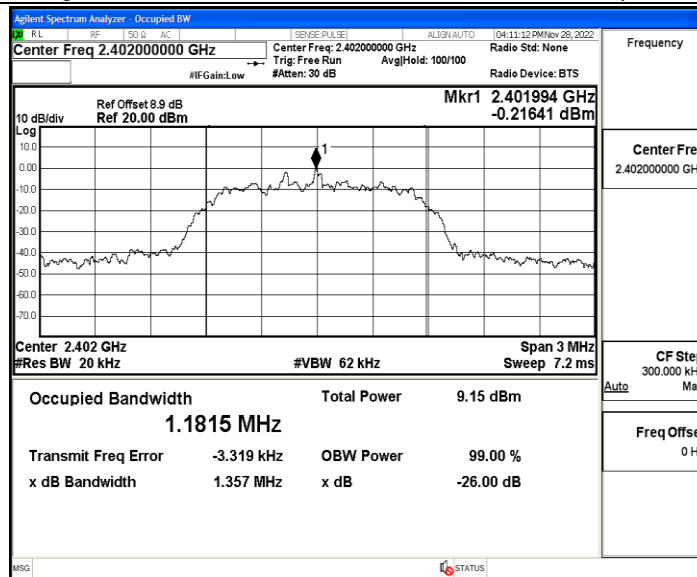
DH5_Ant1_2441



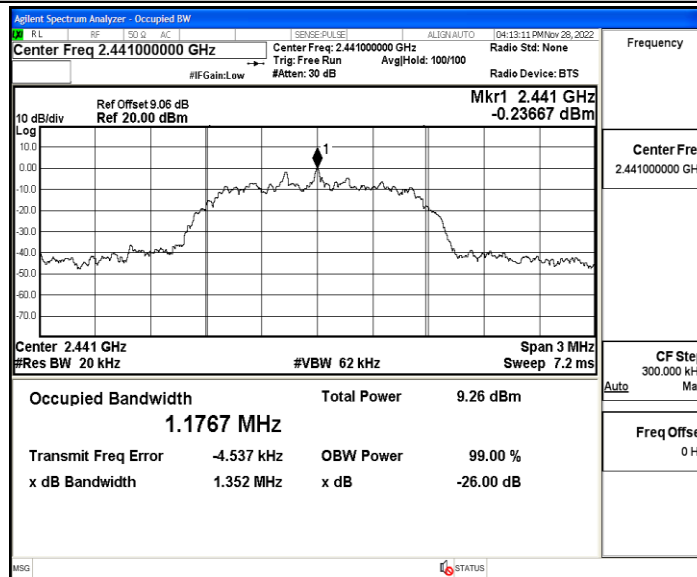
DH5_Ant1_2480



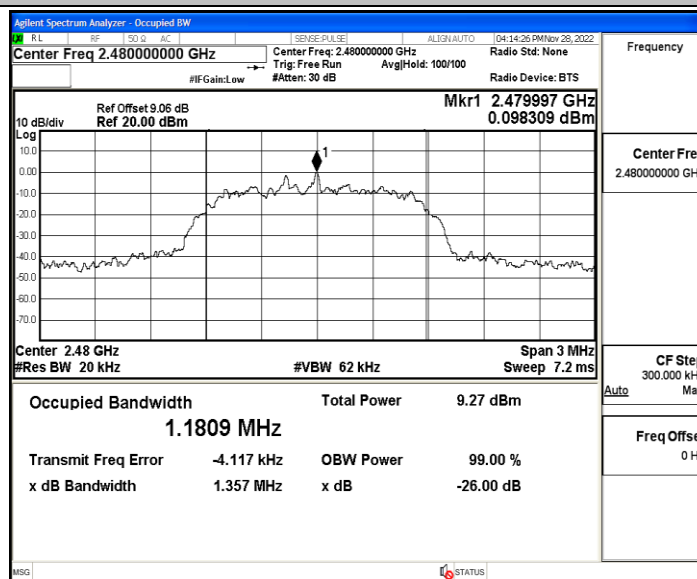
2DH5_Ant1_2402



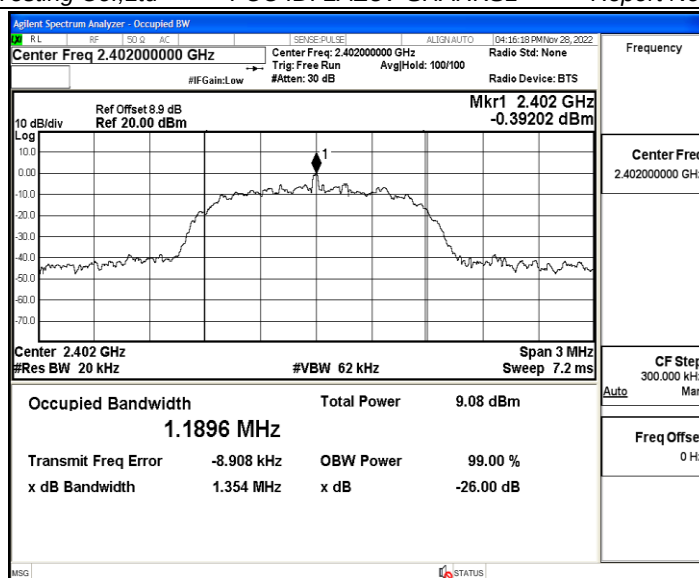
2DH5_Ant1_2441



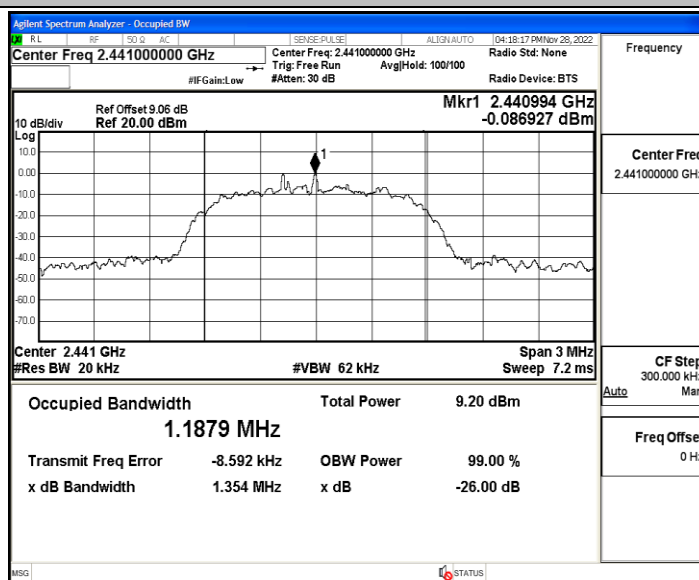
2DH5_Ant1_2480



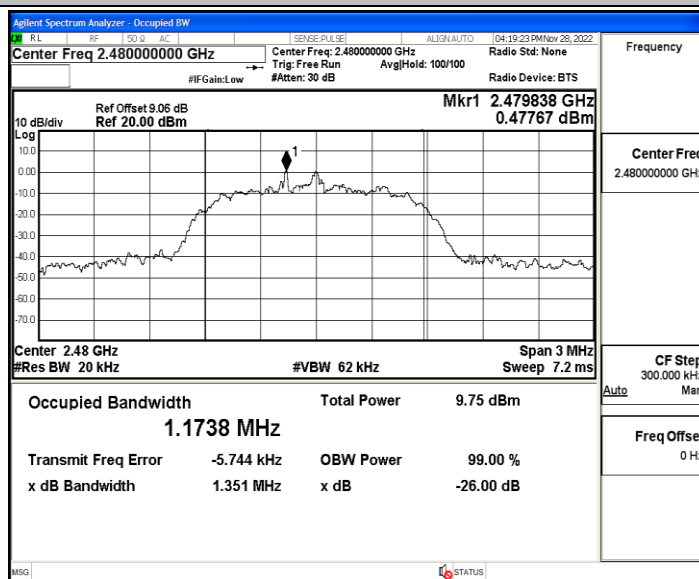
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



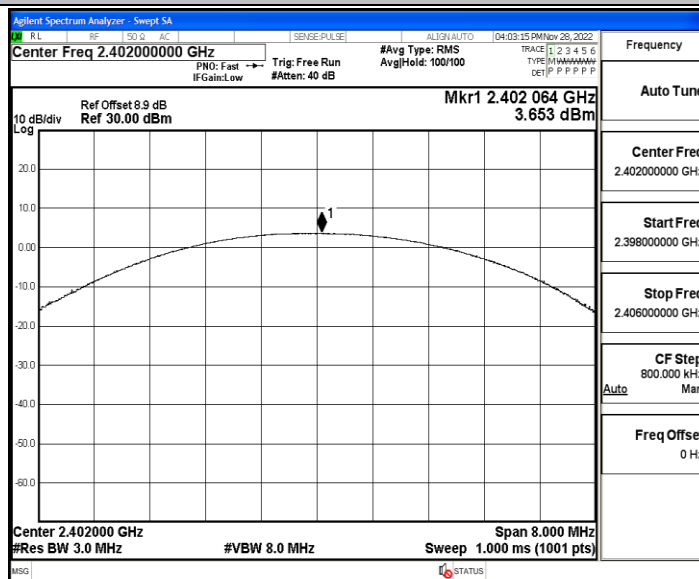
Appendix C: Maximum Peak conducted output power

Test Result

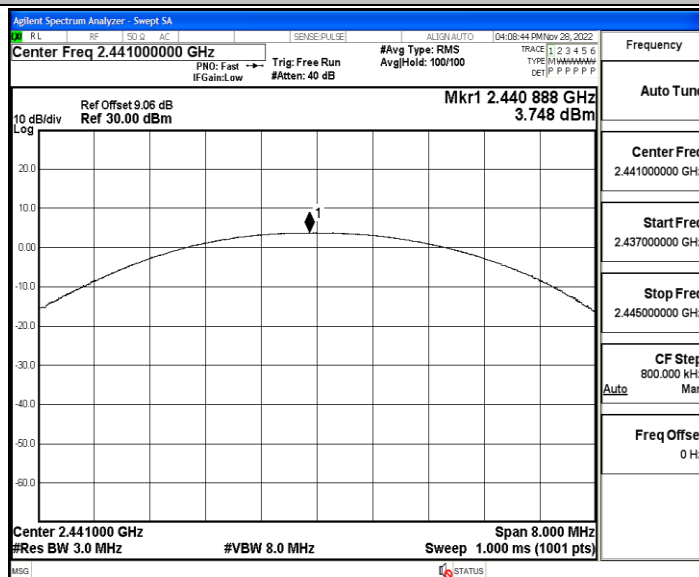
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.65	≤30	PASS
		2441	3.75	≤30	PASS
		2480	3.79	≤30	PASS
2DH5	Ant1	2402	4.18	≤20.97	PASS
		2441	4.23	≤20.97	PASS
		2480	4.29	≤20.97	PASS
3DH5	Ant1	2402	4.49	≤20.97	PASS
		2441	4.67	≤20.97	PASS
		2480	4.71	≤20.97	PASS

Test Graphs

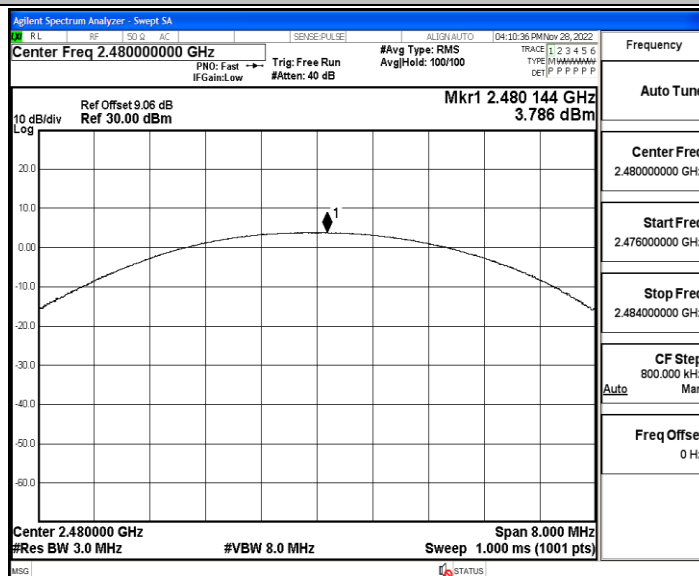
DH5_Ant1_2402



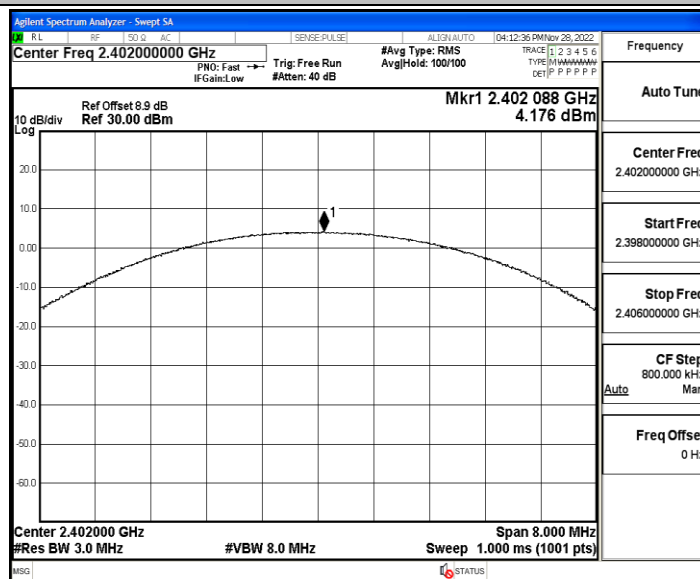
DH5_Ant1_2441



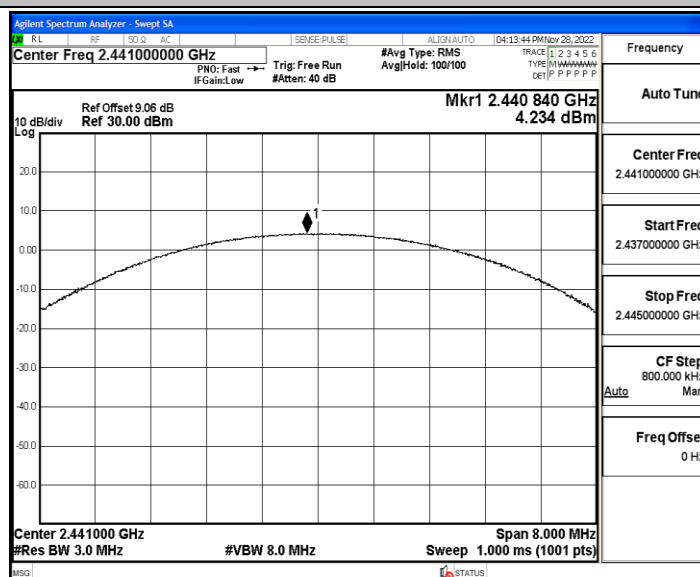
DH5_Ant1_2480



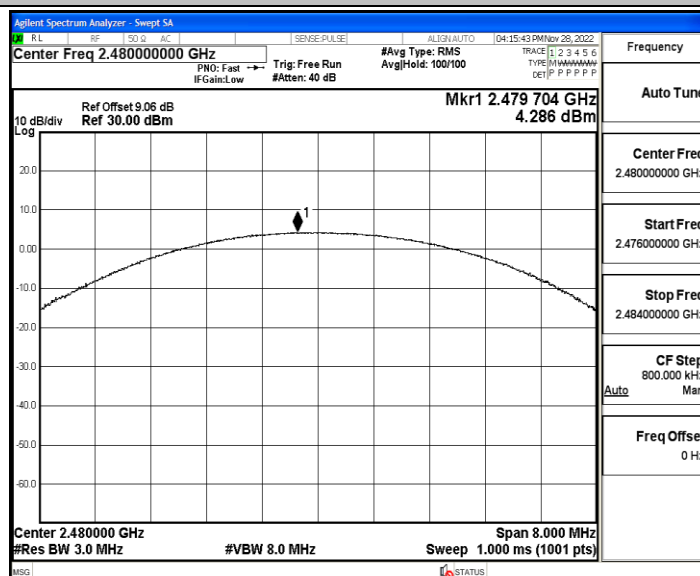
2DH5_Ant1_2402



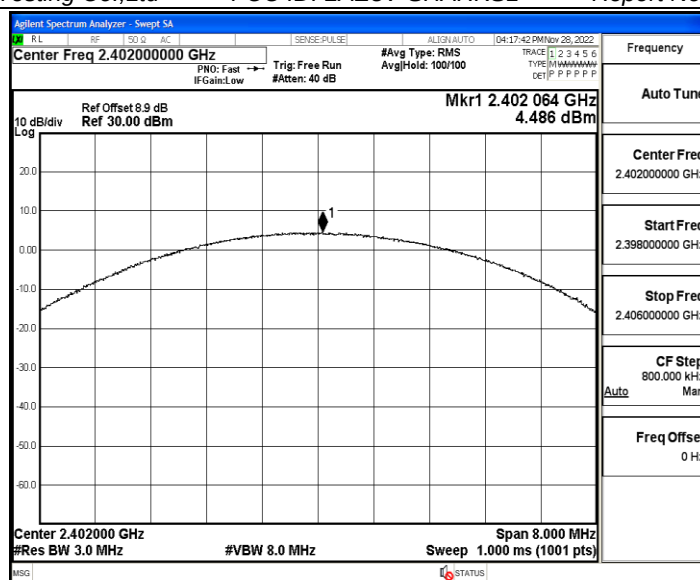
2DH5_Ant1_2441



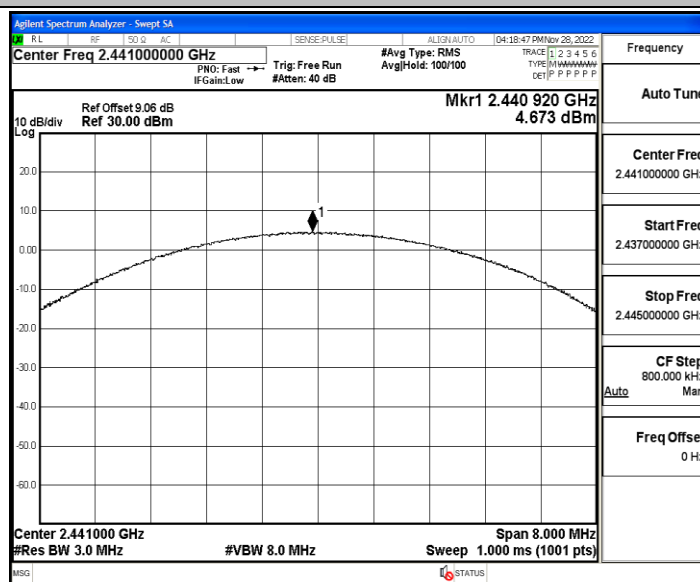
2DH5_Ant1_2480



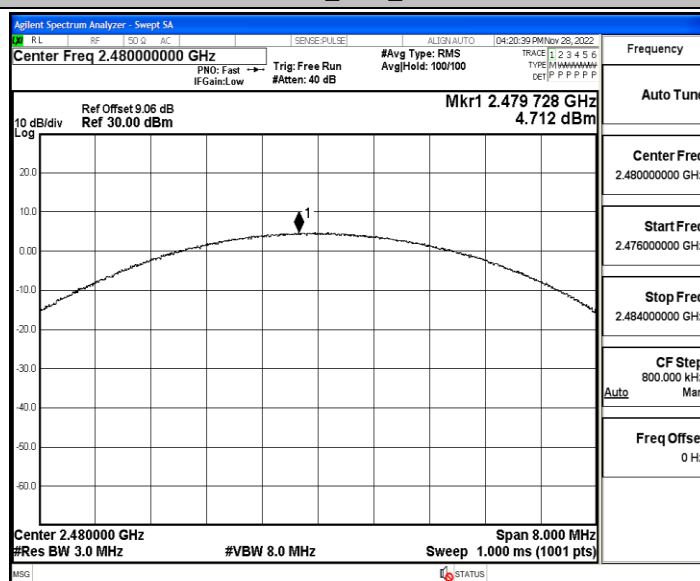
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

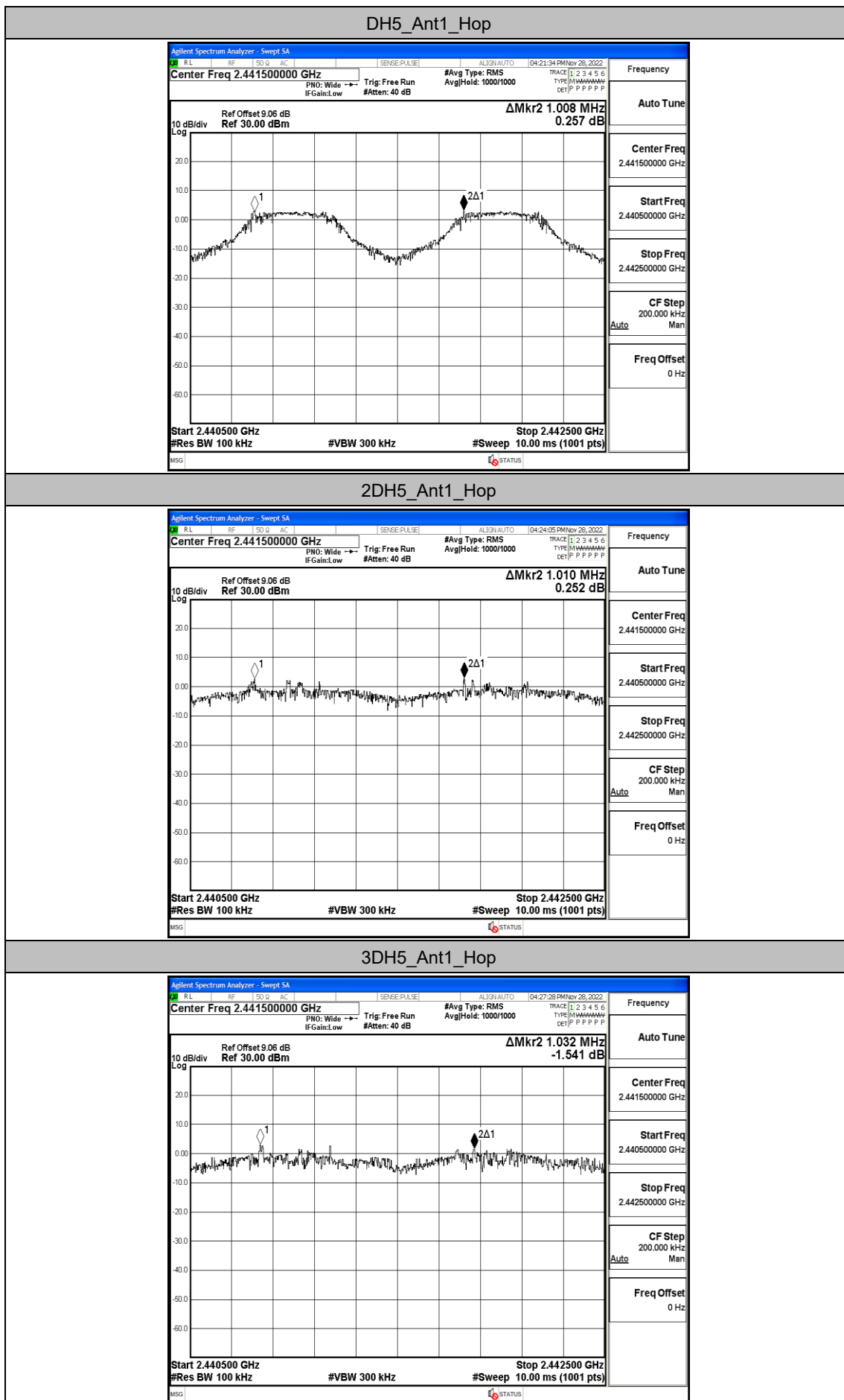


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.990	PASS
2DH5	Ant1	Hop	1.01	≥ 0.896	PASS
3DH5	Ant1	Hop	1.032	≥ 0.846	PASS

Test Graphs

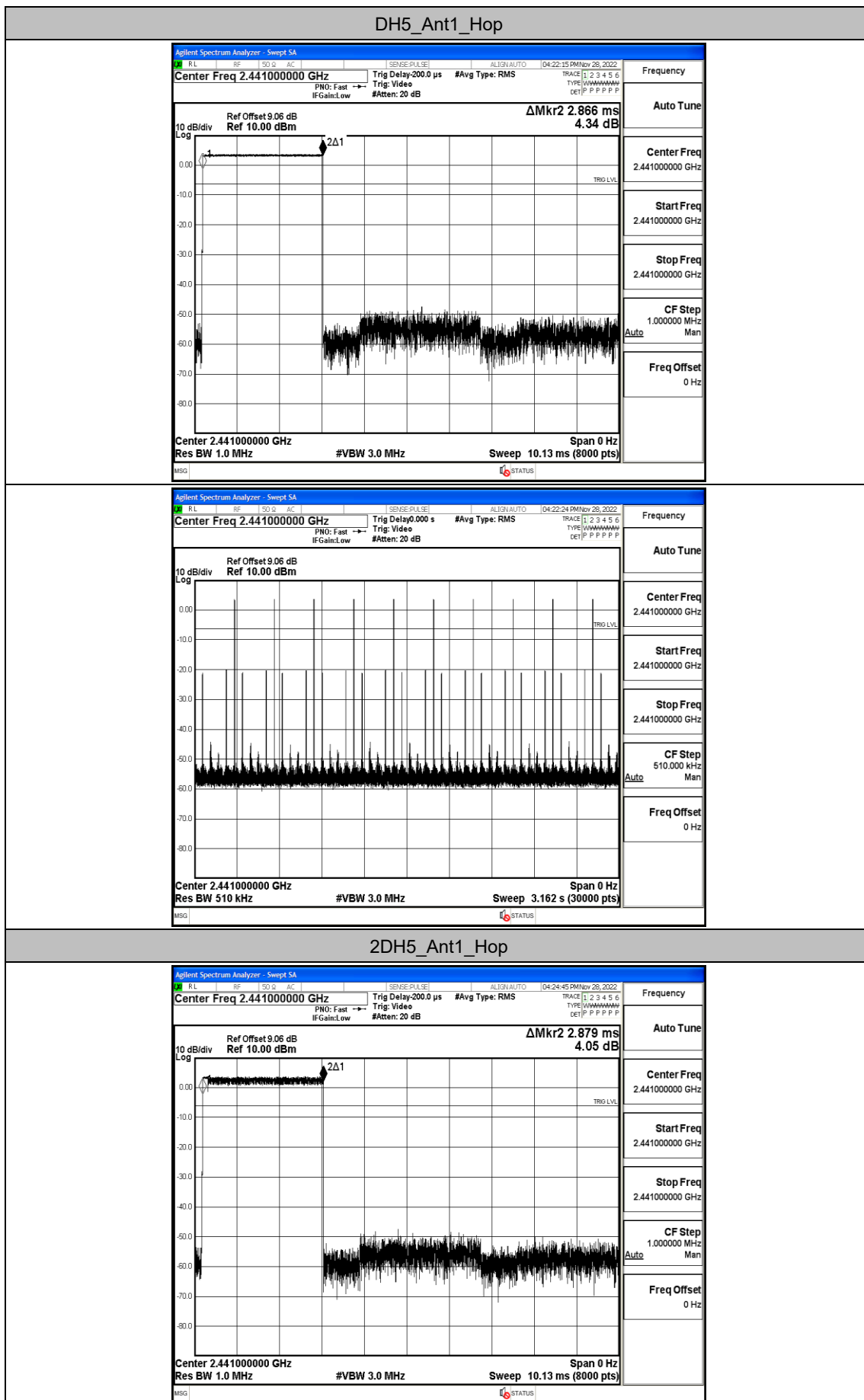


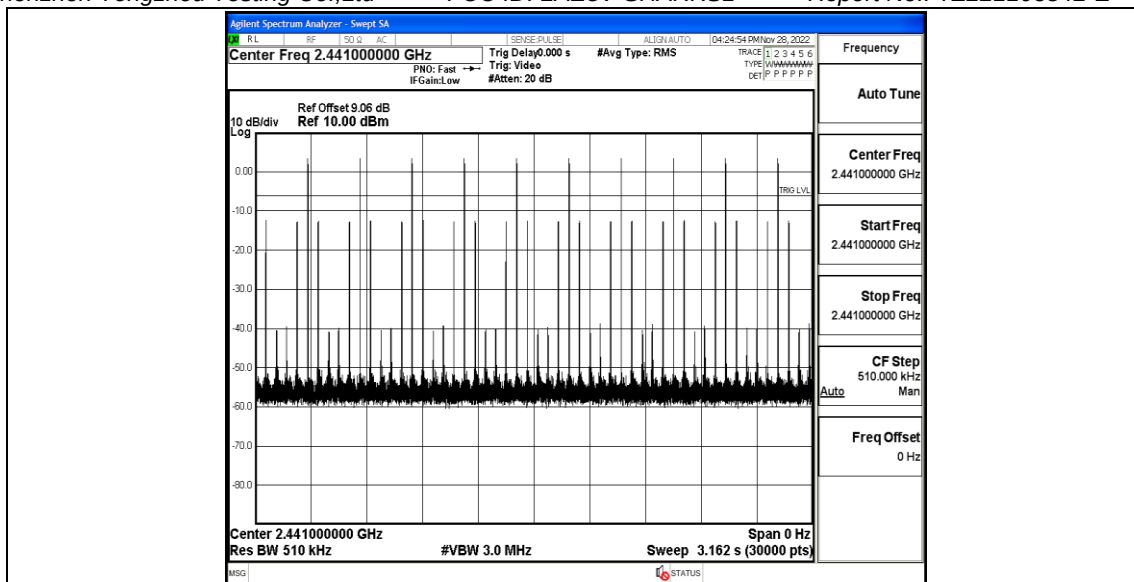
Appendix E: Time of occupancy

Test Result

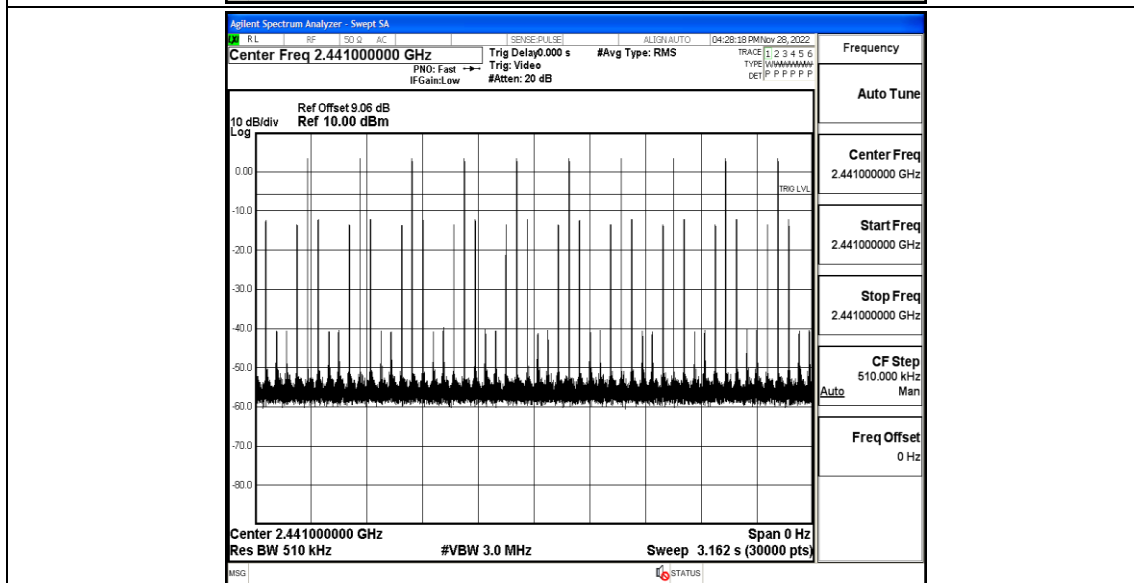
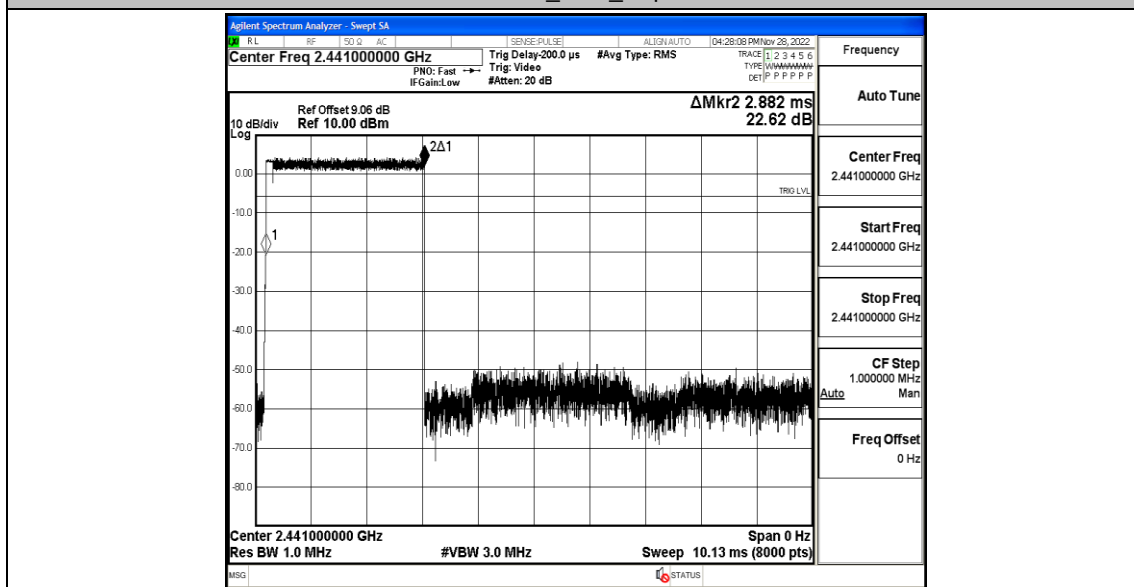
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.866	110	0.315	≤0.4	PASS
2DH5	Ant1	Hop	2.879	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.882	110	0.317	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop



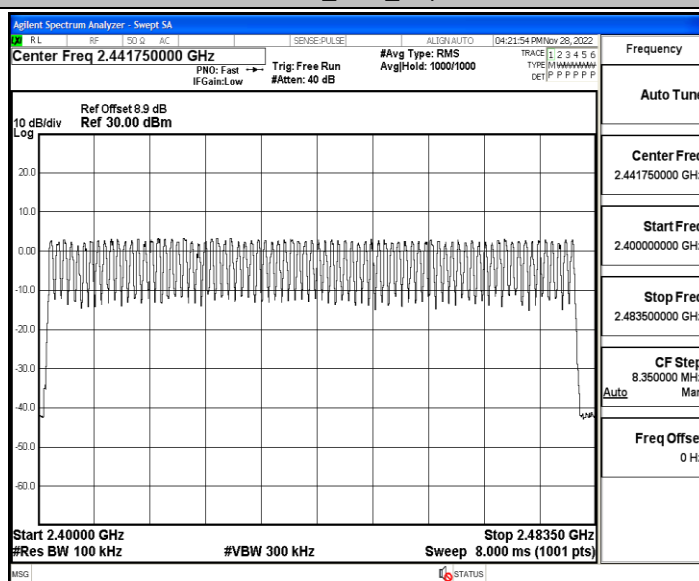
Appendix F: Number of hopping channels

Test Result

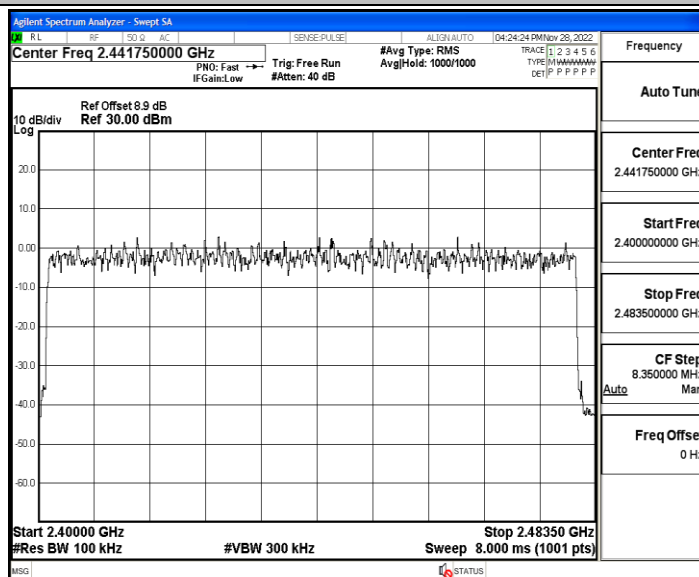
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

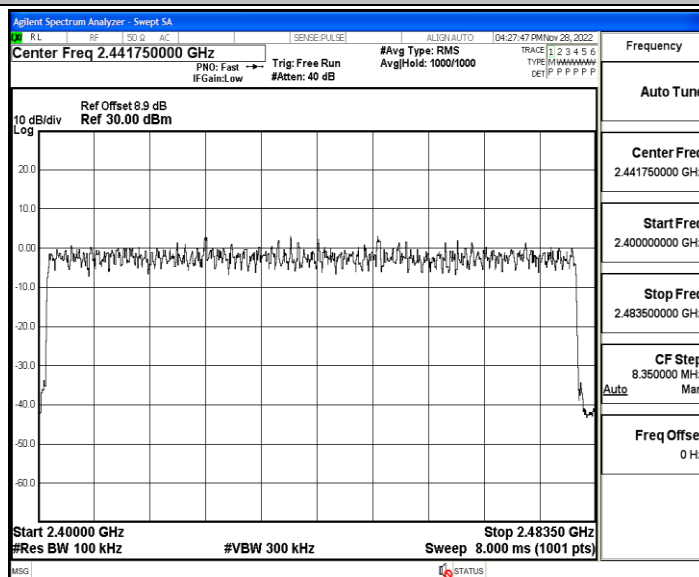
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



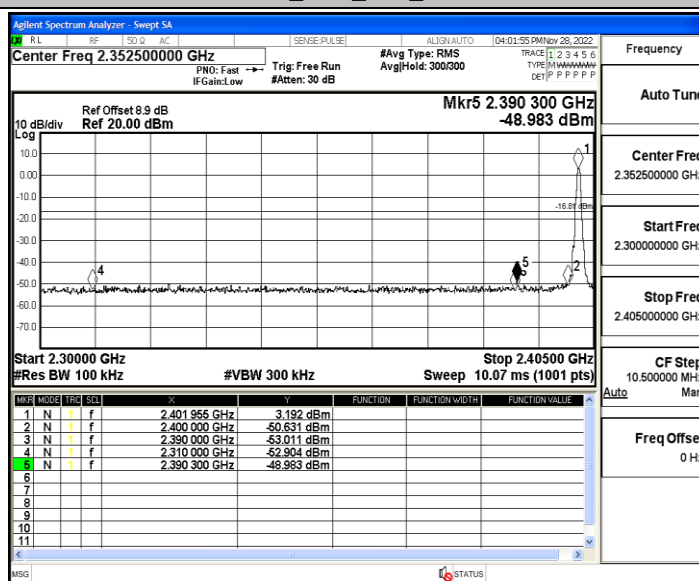
Appendix G: Band edge measurements

Test Result

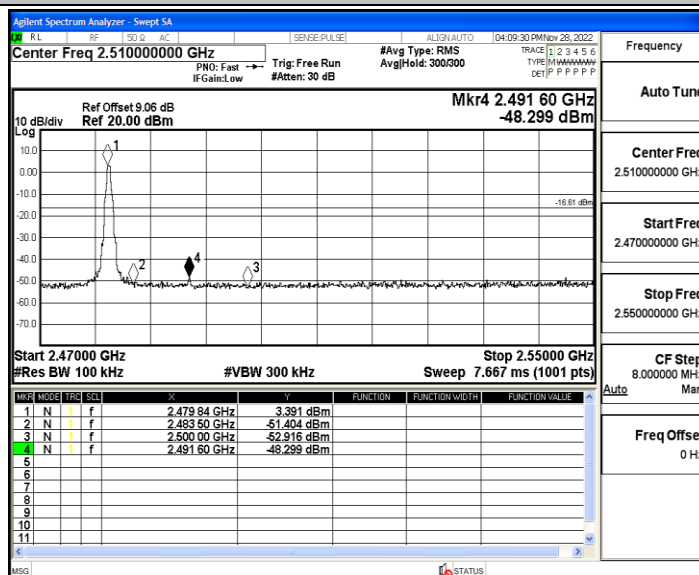
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.19	-48.98	≤ -16.81	PASS
		High	2480	3.39	-48.3	≤ -16.61	PASS
		Low	Hop_2402	2.53	-50.56	≤ -17.47	PASS
		High	Hop_2480	3.21	-48.83	≤ -16.79	PASS
2DH5	Ant1	Low	2402	2.74	-49.53	≤ -17.26	PASS
		High	2480	3.38	-49.43	≤ -16.62	PASS
		Low	Hop_2402	2.10	-50.74	≤ -17.9	PASS
		High	Hop_2480	0.21	-49.38	≤ -19.79	PASS
3DH5	Ant1	Low	2402	3.19	-49.13	≤ -16.81	PASS
		High	2480	3.44	-49.43	≤ -16.57	PASS
		Low	Hop_2402	-0.37	-50.86	≤ -20.37	PASS
		High	Hop_2480	0.22	-48.58	≤ -19.78	PASS

Test Graphs

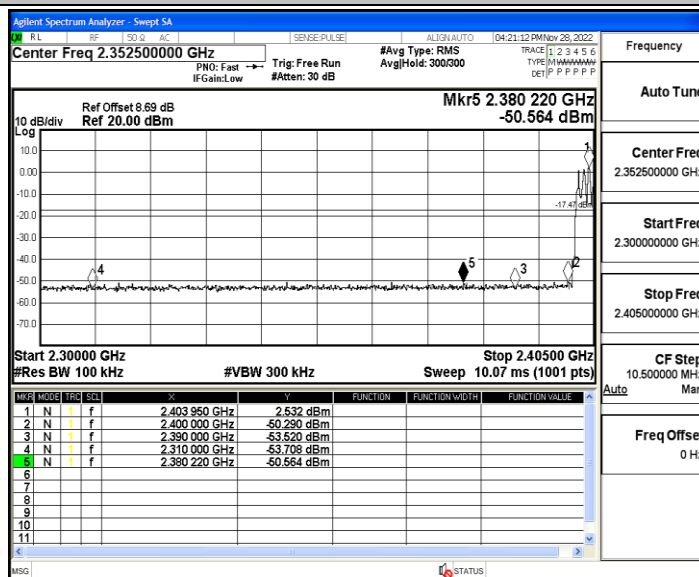
DH5_Ant1_Low_2402



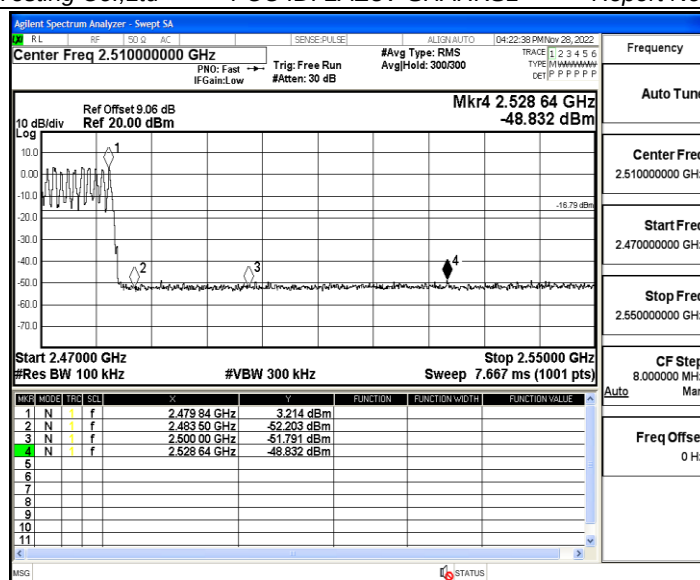
DH5_Ant1_High_2480



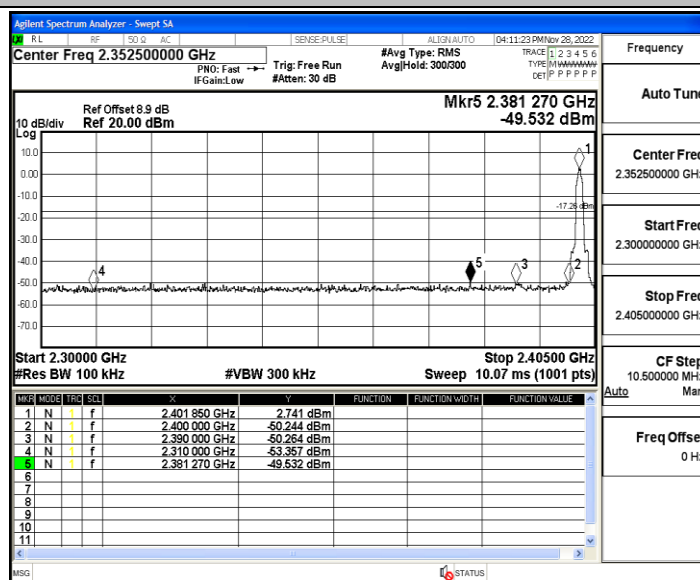
DH5_Ant1_Low_Hop_2402



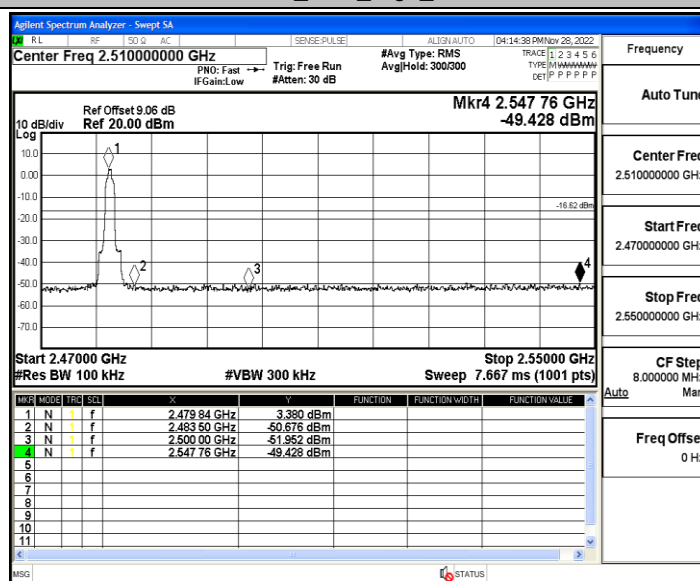
DH5_Ant1_High_Hop_2480



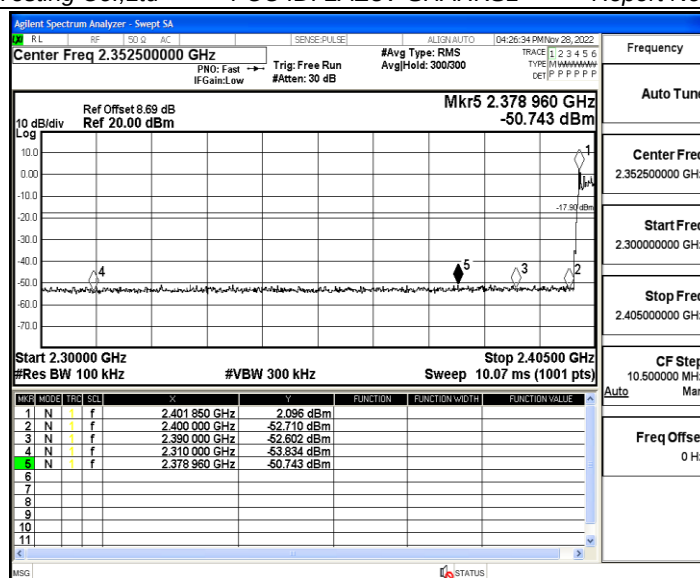
2DH5_Ant1_Low_2402



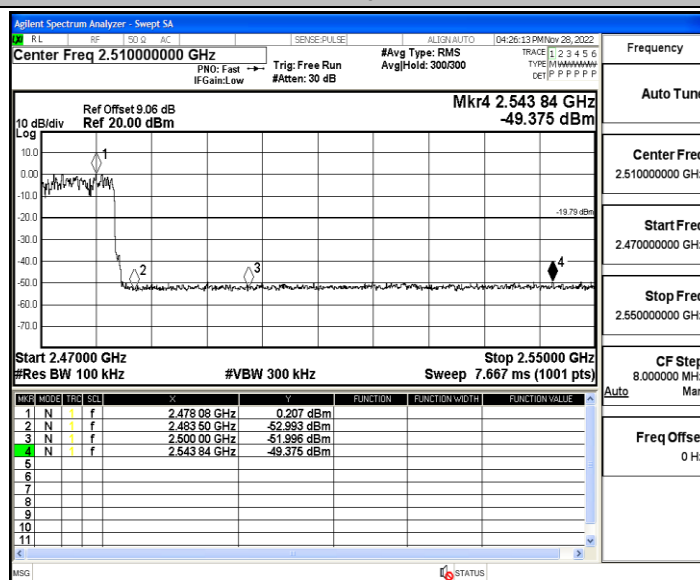
2DH5_Ant1_High_2480



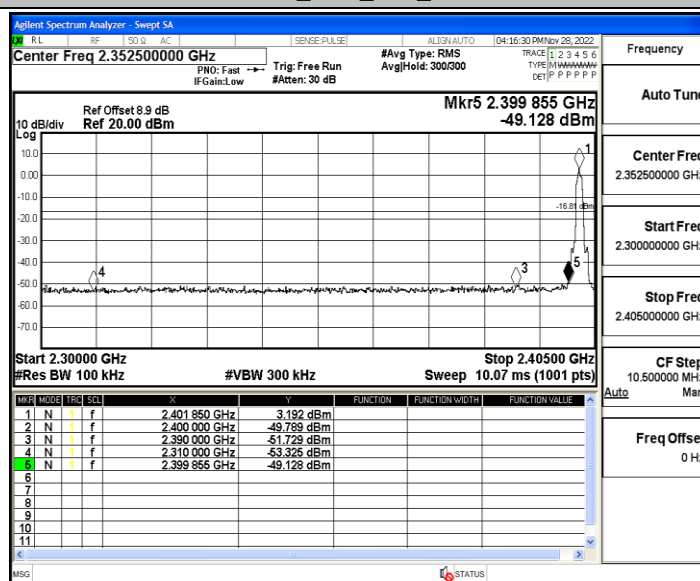
2DH5_Ant1_Low_Hop_2402



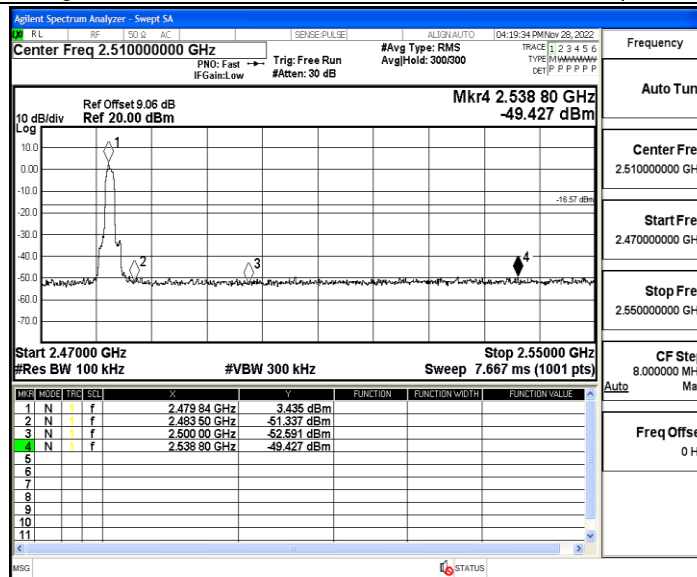
2DH5_Ant1_High_Hop_2480



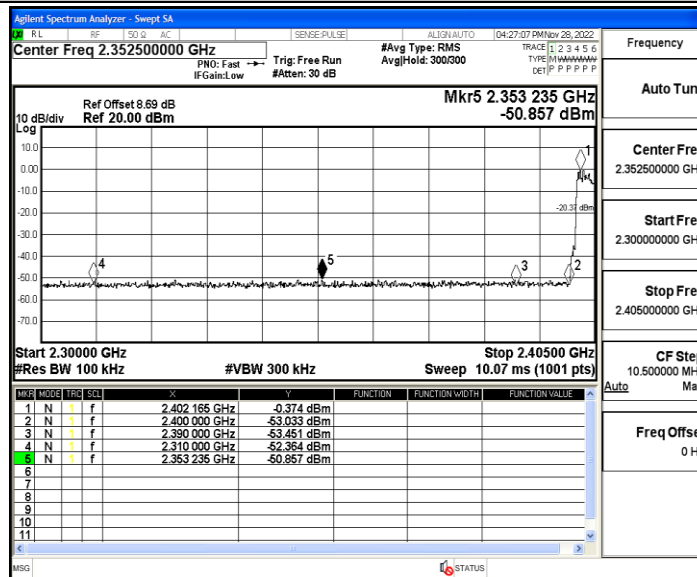
3DH5_Ant1_Low_2402



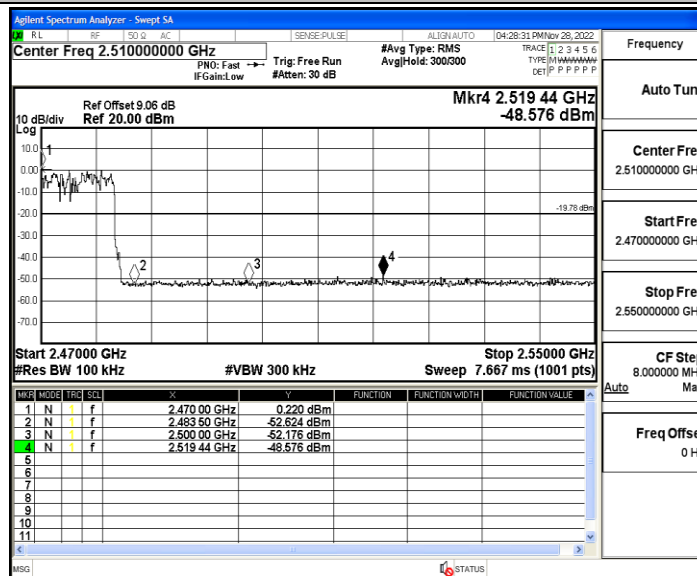
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

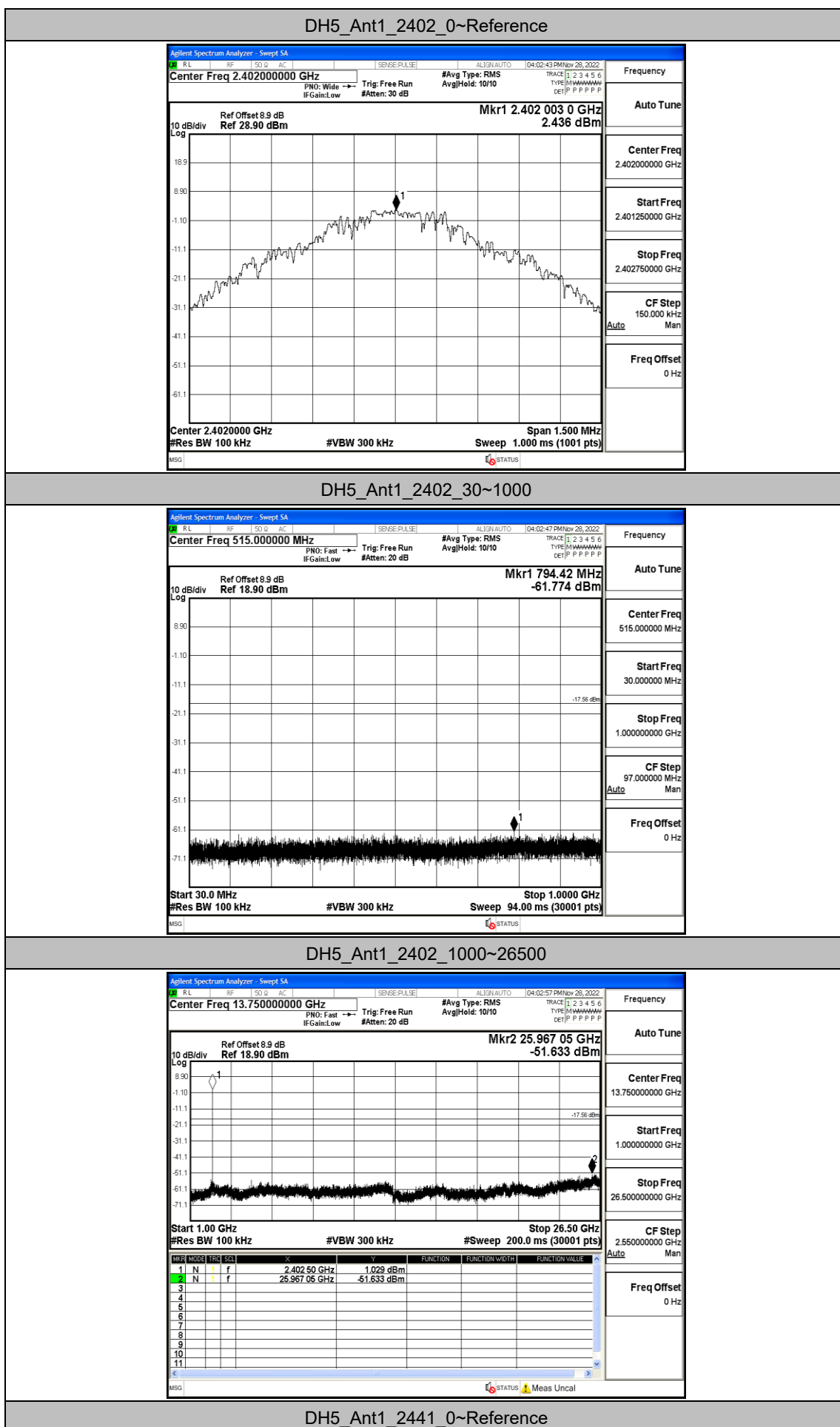


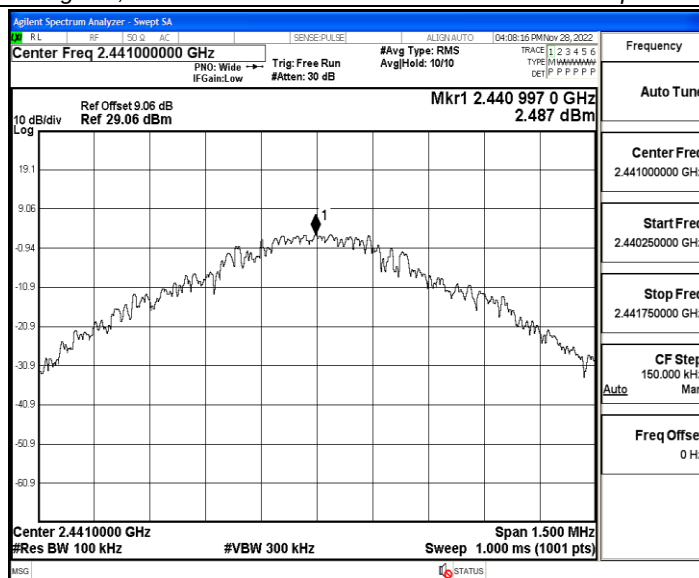
Appendix H: Conducted Spurious Emission

Test Result

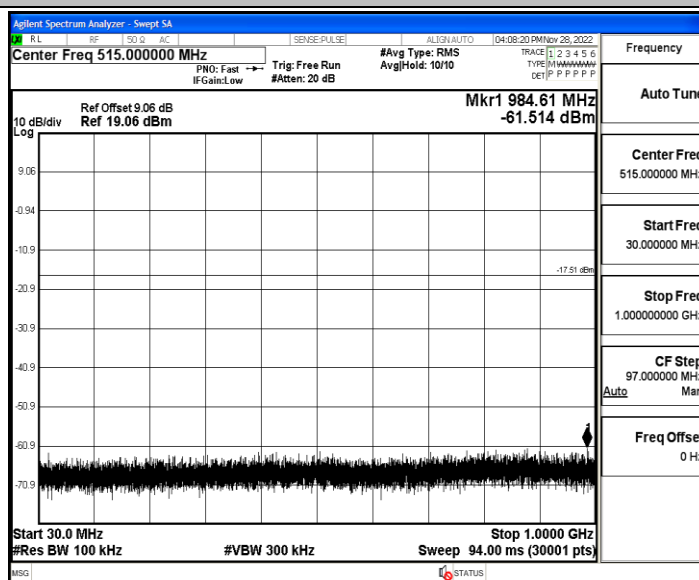
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-61.77	≤-17.56	PASS
			1000~26500	2.44	-51.63	≤-17.56	PASS
		2441	Reference	2.49	2.49	---	PASS
			30~1000	2.49	-61.51	≤-17.51	PASS
			1000~26500	2.49	-51.8	≤-17.51	PASS
		2480	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-60.79	≤-17	PASS
			1000~26500	3.00	-51.46	≤-17	PASS
2DH5	Ant1	2402	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-61.46	≤-20.91	PASS
			1000~26500	-0.91	-51.18	≤-20.91	PASS
		2441	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-61.61	≤-17.85	PASS
			1000~26500	2.15	-49.72	≤-17.85	PASS
		2480	Reference	3.19	3.19	---	PASS
			30~1000	3.19	-61.1	≤-16.81	PASS
			1000~26500	3.19	-50.28	≤-16.81	PASS
3DH5	Ant1	2402	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-61.68	≤-18.34	PASS
			1000~26500	1.66	-50.77	≤-18.34	PASS
		2441	Reference	0.38	0.38	---	PASS
			30~1000	0.38	-61.81	≤-19.62	PASS
			1000~26500	0.38	-51.17	≤-19.62	PASS
		2480	Reference	-0.09	-0.09	---	PASS
			30~1000	-0.09	-61.39	≤-20.09	PASS
			1000~26500	-0.09	-51.22	≤-20.09	PASS

Test Graphs

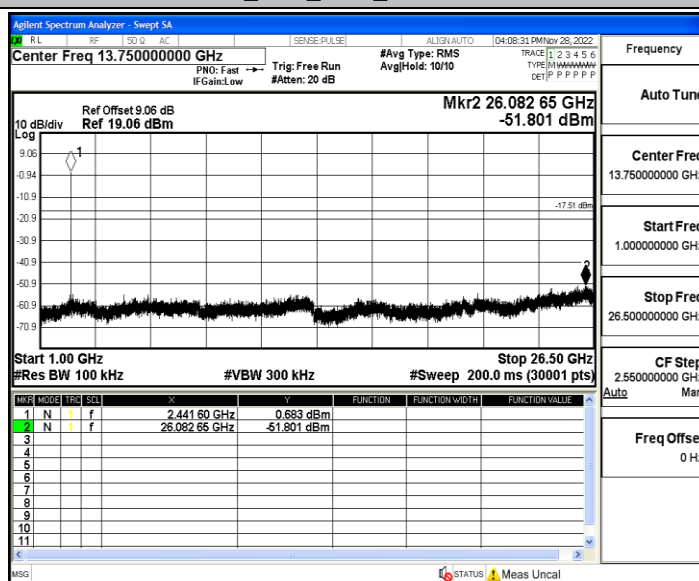




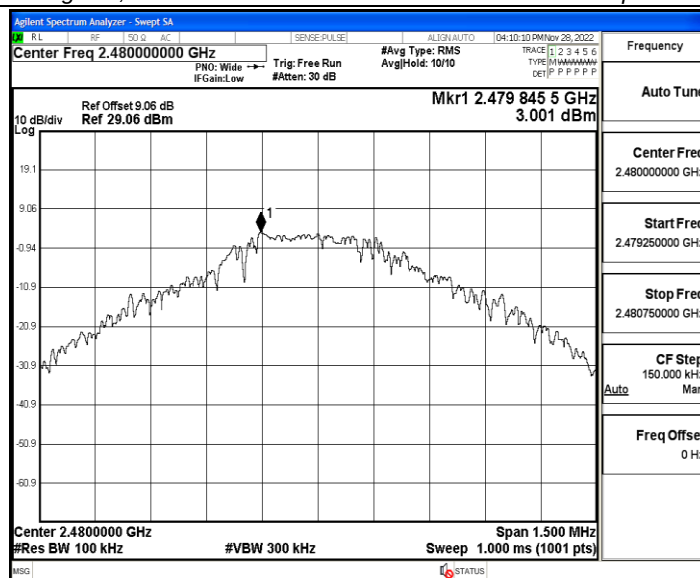
DH5_Ant1_2441_30~1000



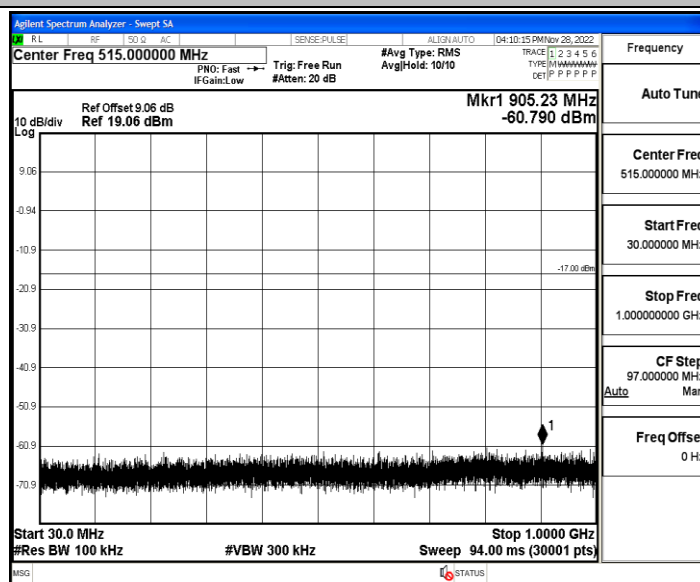
DH5_Ant1_2441_1000~26500



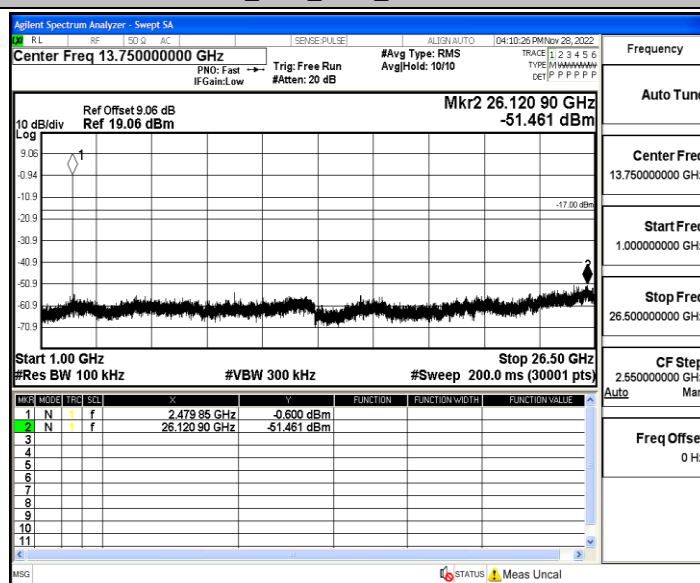
DH5_Ant1_2480_0~Reference



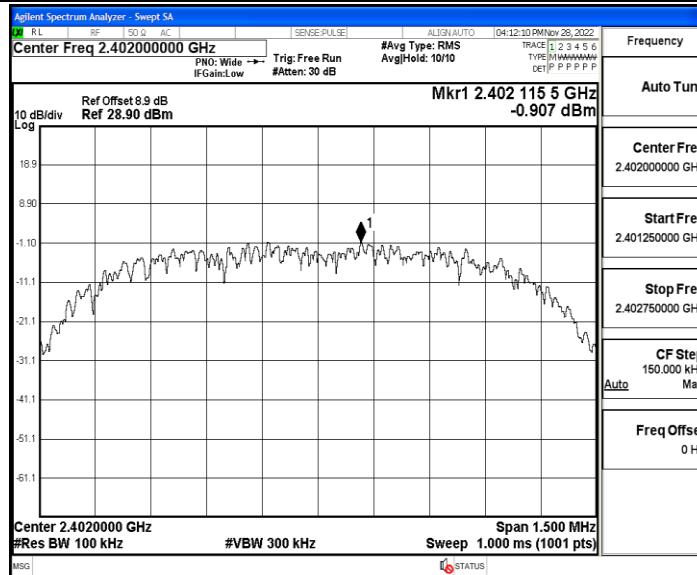
DH5_Ant1_2480_30~1000



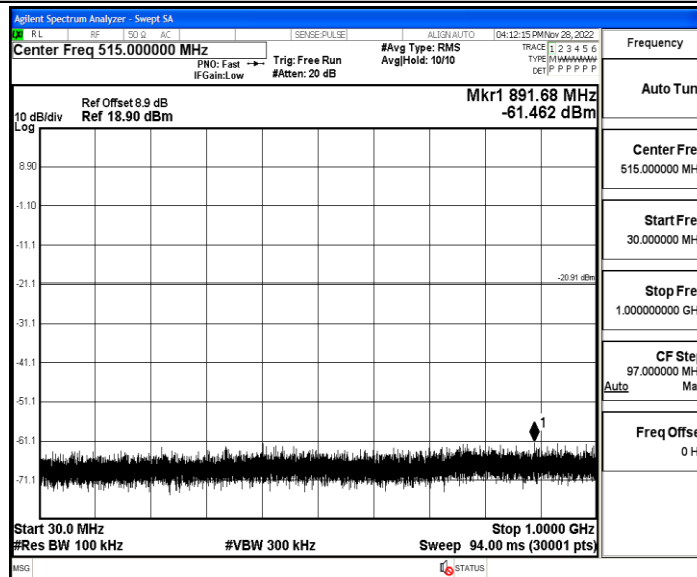
DH5_Ant1_2480_1000~26500



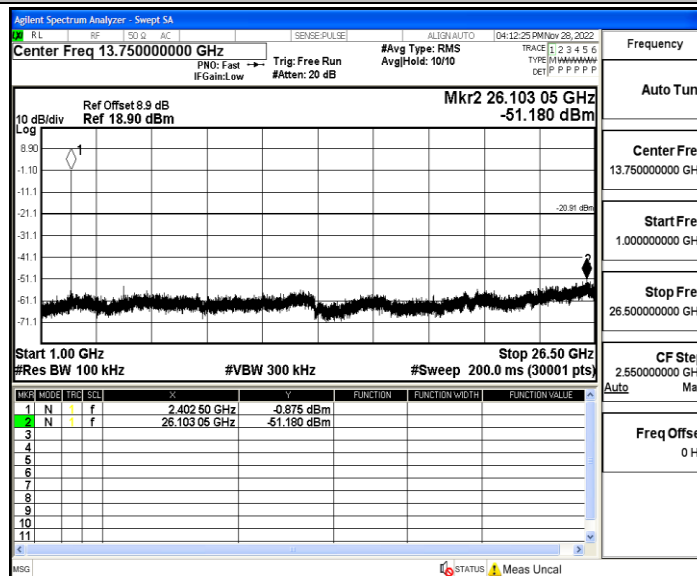
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference