

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: NucBox****Trade Mark: GMKtec****Test Model: K1****FCC ID: 2AXUD-K1****Environmental Conditions**

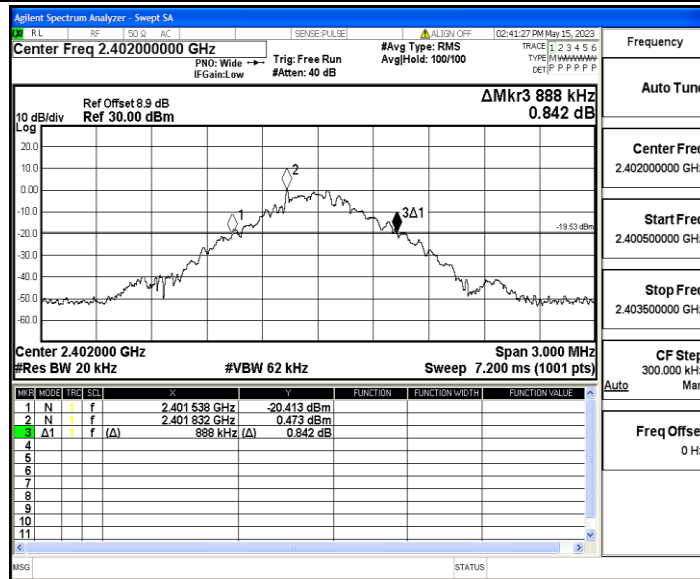
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth**Test Result**

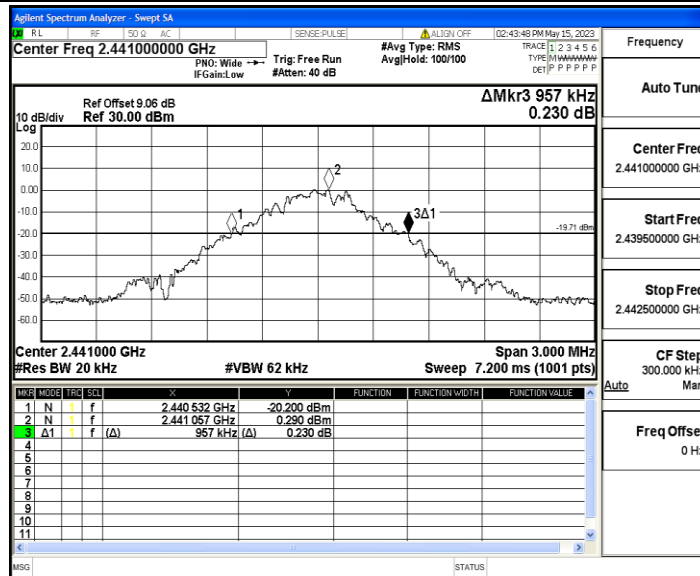
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.888	2401.538	2402.426	---	---
		2441	0.957	2440.532	2441.489	---	---
		2480	0.933	2479.535	2480.468	---	---
2DH5	Ant1	2402	1.311	2401.340	2402.651	---	---
		2441	1.281	2440.364	2441.645	---	---
		2480	1.314	2479.337	2480.651	---	---
3DH5	Ant1	2402	1.275	2401.349	2402.624	---	---
		2441	1.308	2440.340	2441.648	---	---
		2480	1.293	2479.343	2480.636	---	---

Test Graphs

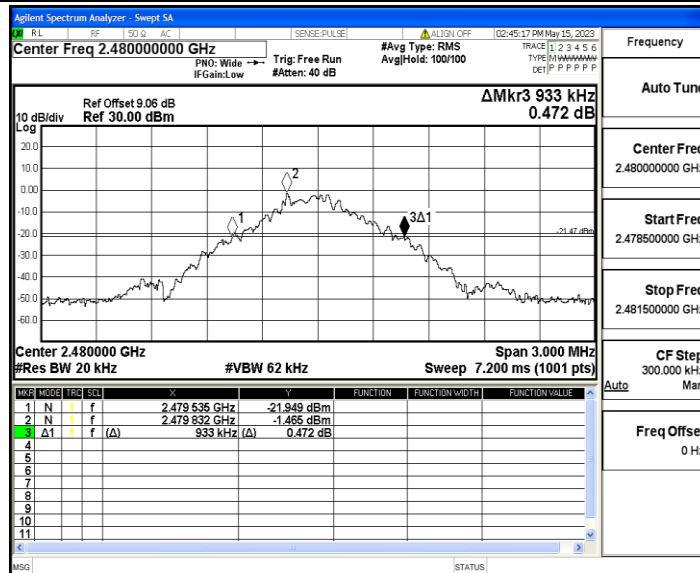
DH5_Ant1_2402



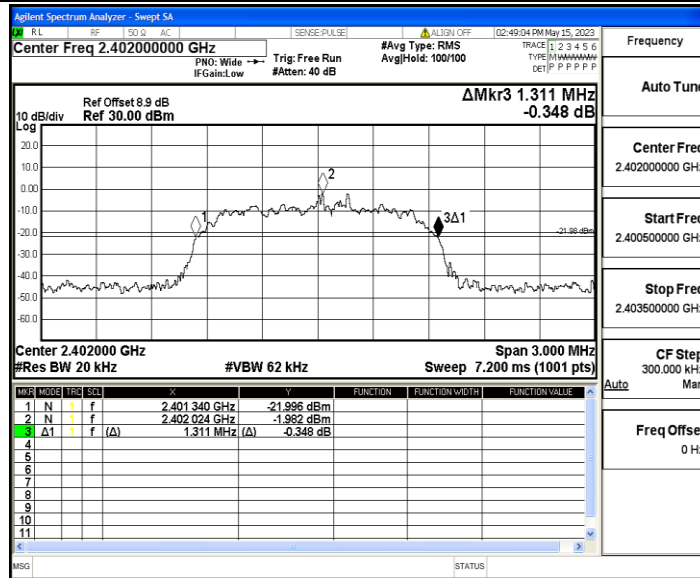
DH5_Ant1_2441



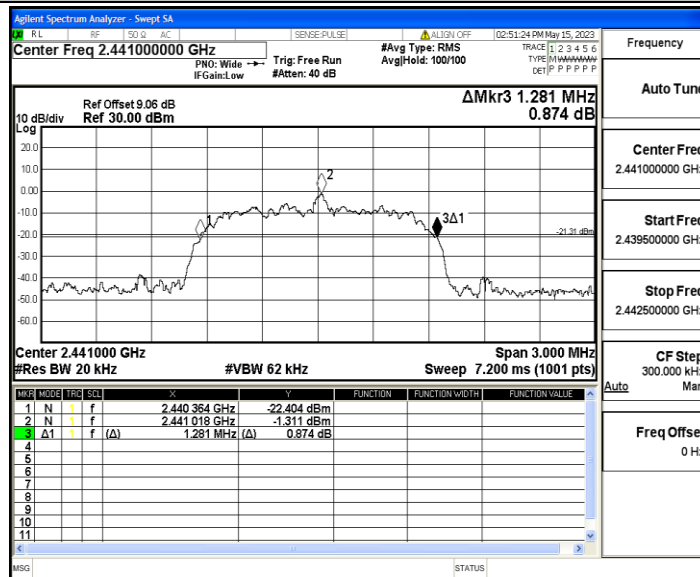
DH5_Ant1_2480



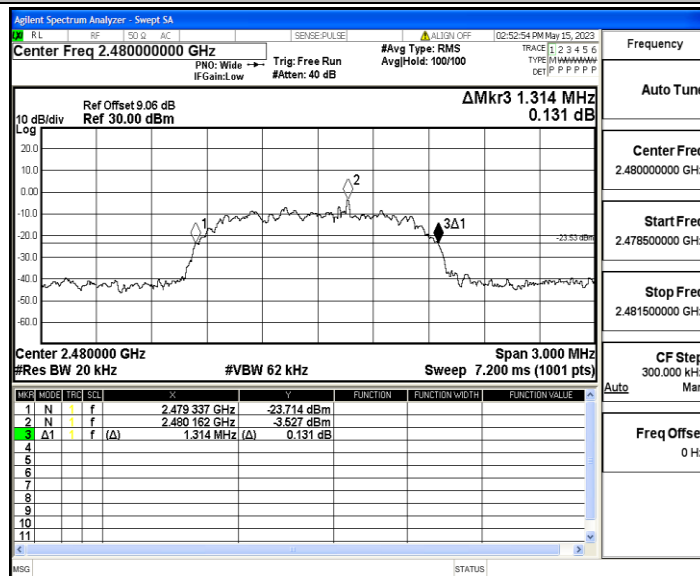
2DH5_Ant1_2402



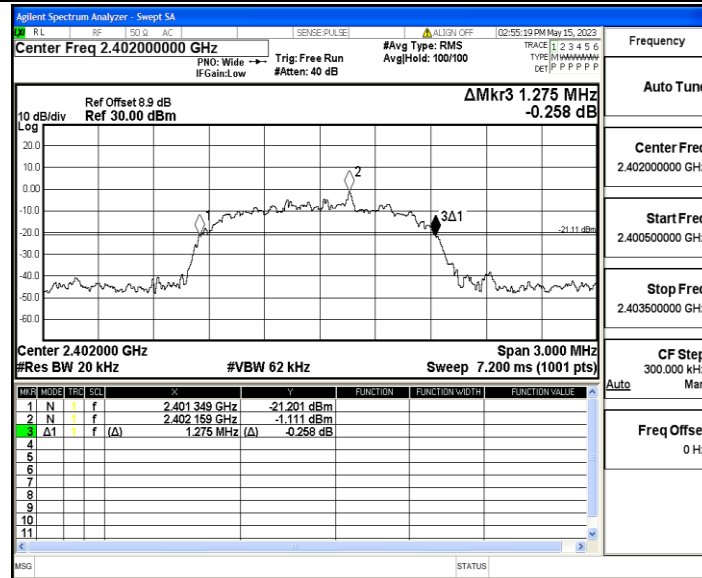
2DH5_Ant1_2441



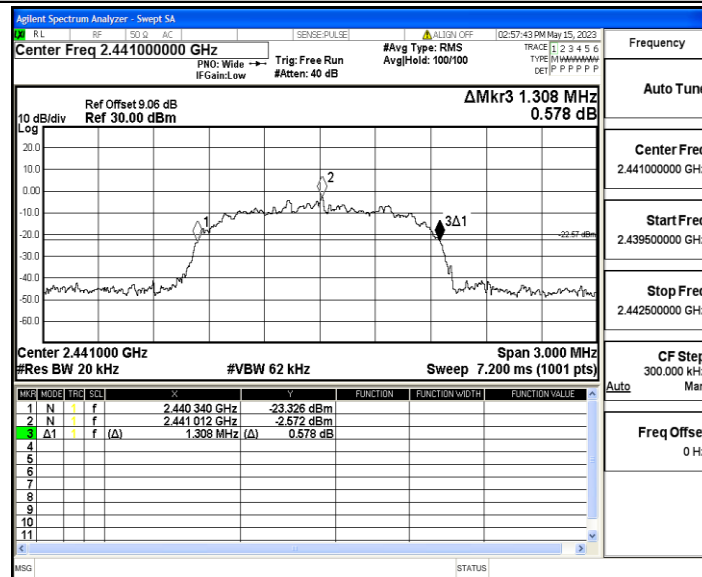
2DH5_Ant1_2480



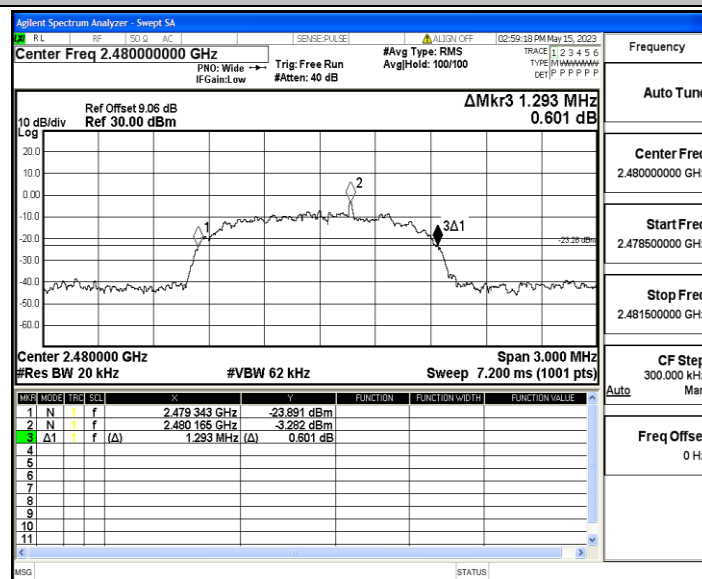
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

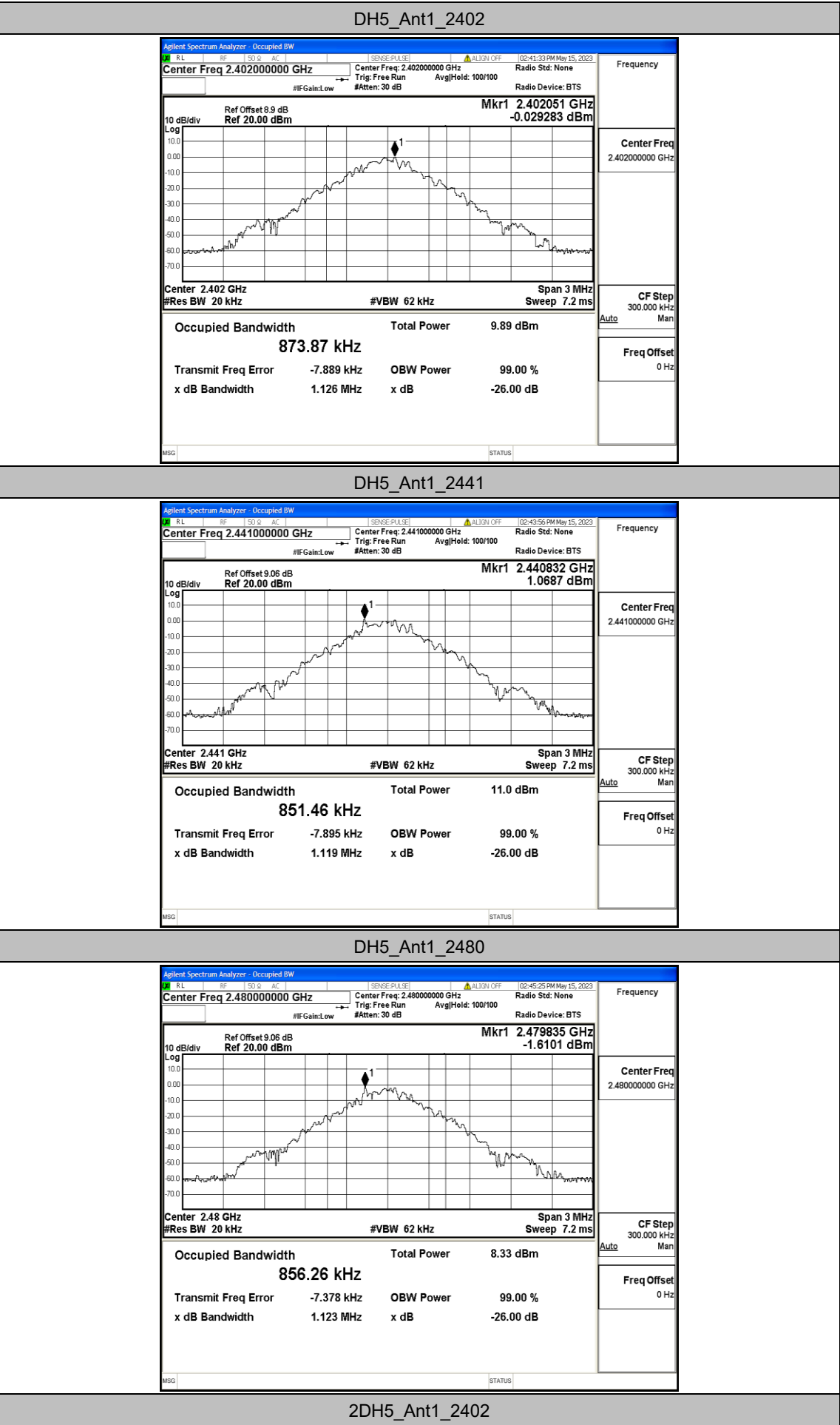


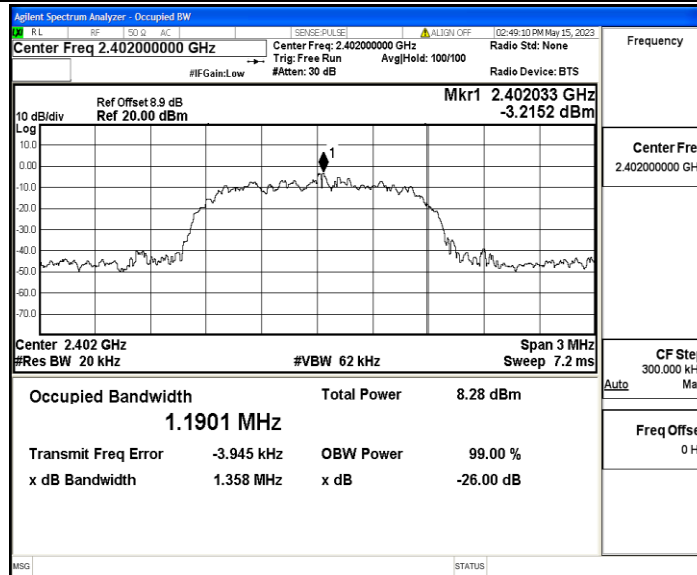
Appendix B: Occupied Channel Bandwidth

Test Result

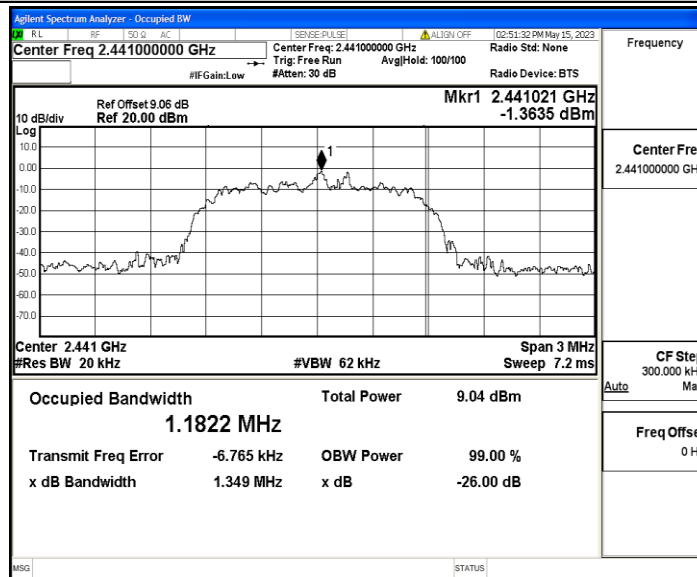
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87387	2401.5552	2402.4290	---	---
		2441	0.85146	2440.5664	2441.4178	---	---
		2480	0.85626	2479.5645	2480.4208	---	---
2DH5	Ant1	2402	1.1901	2401.4010	2402.5911	---	---
		2441	1.1822	2440.4021	2441.5843	---	---
		2480	1.1915	2479.3997	2480.5912	---	---
3DH5	Ant1	2402	1.1954	2401.3909	2402.5863	---	---
		2441	1.2013	2440.3855	2441.5868	---	---
		2480	1.1838	2479.4019	2480.5857	---	---

Test Graphs

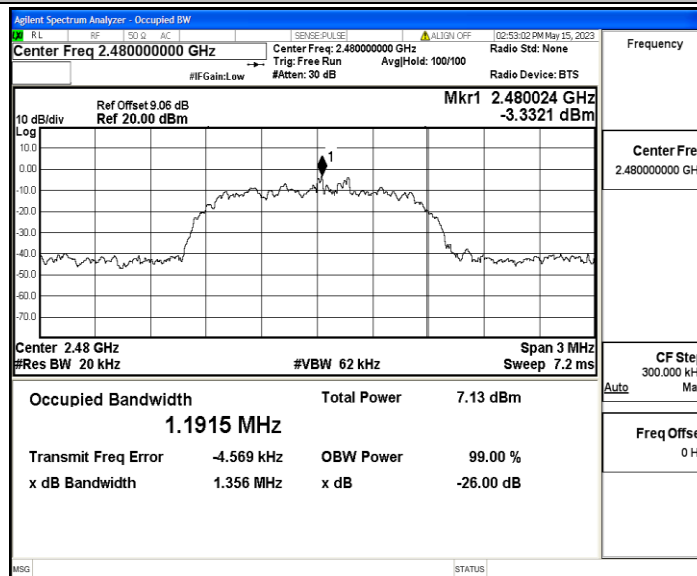




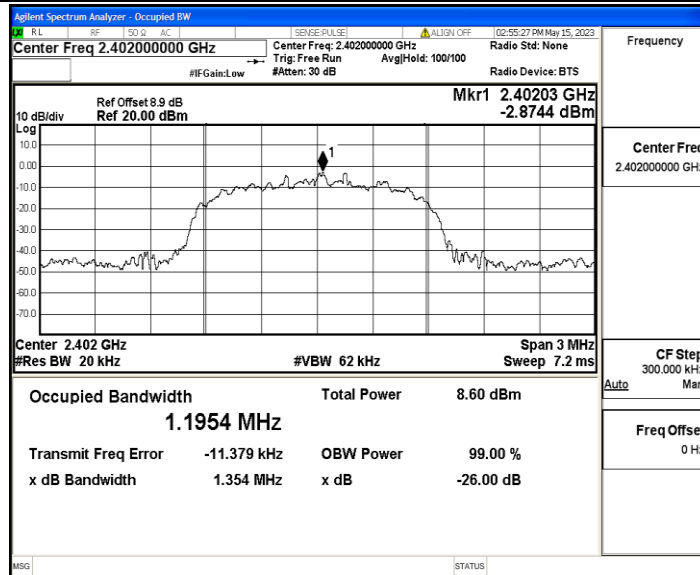
2DH5_Ant1_2441



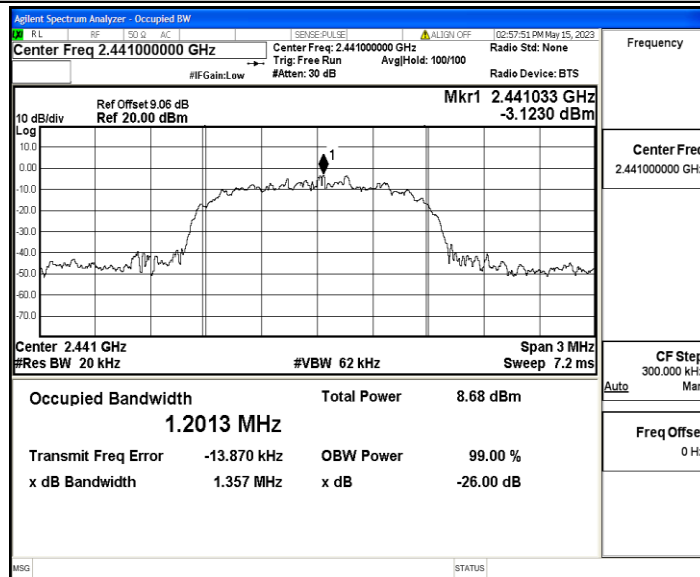
2DH5_Ant1_2480



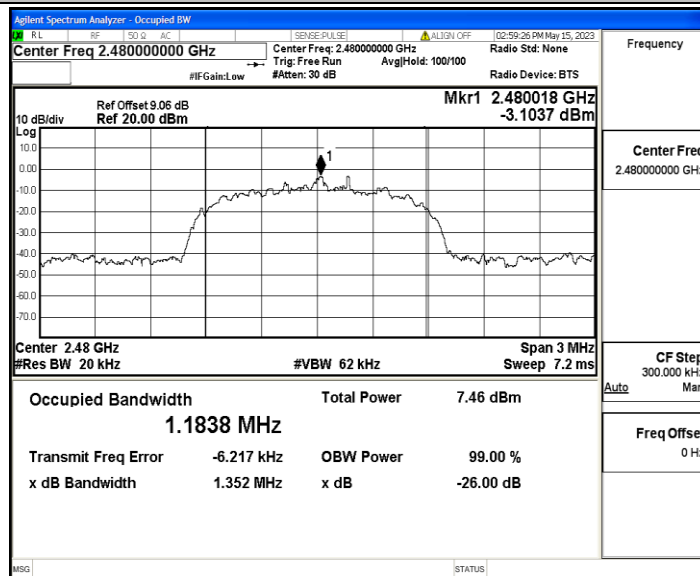
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

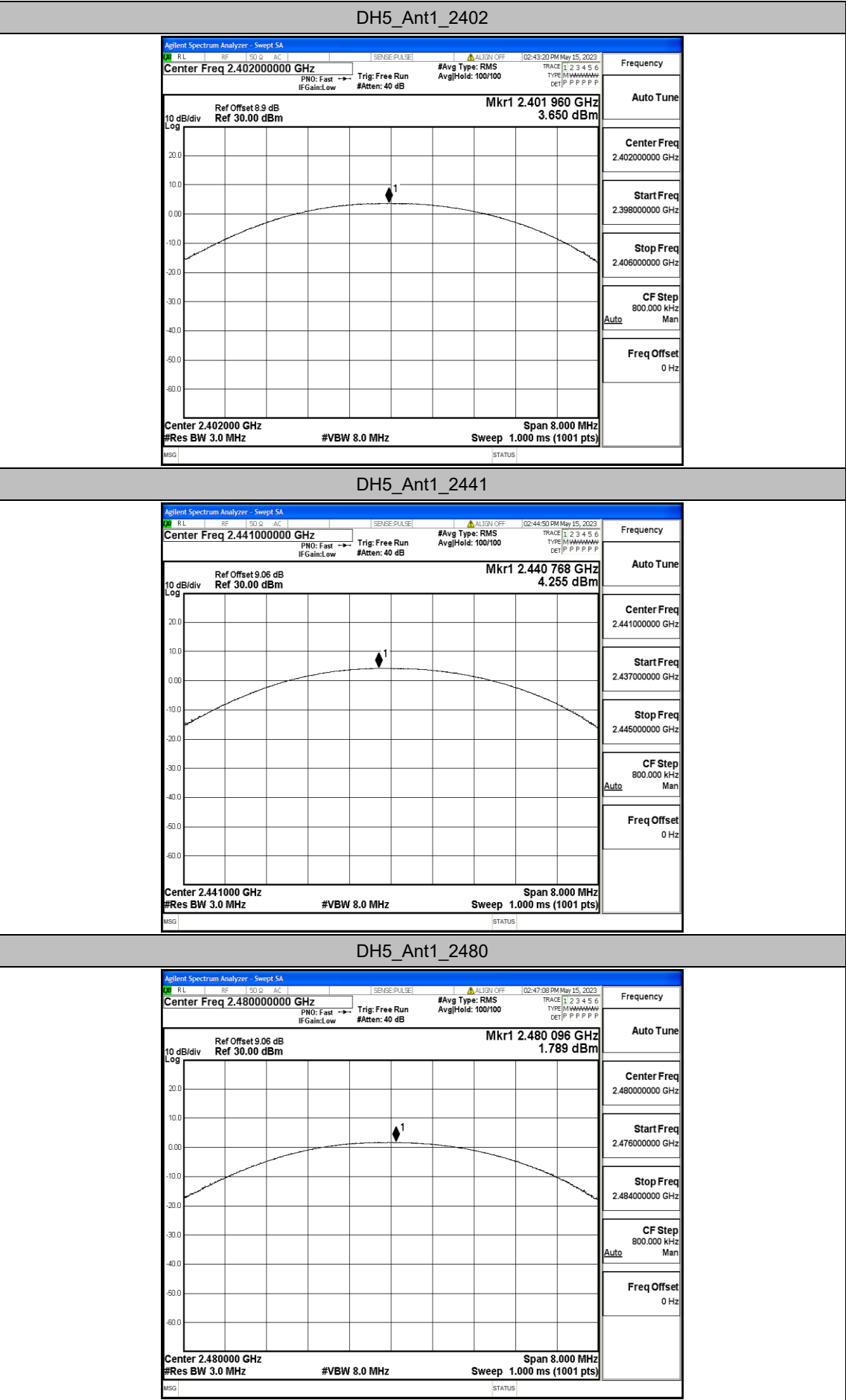


Appendix C: Maximum Peak conducted output power

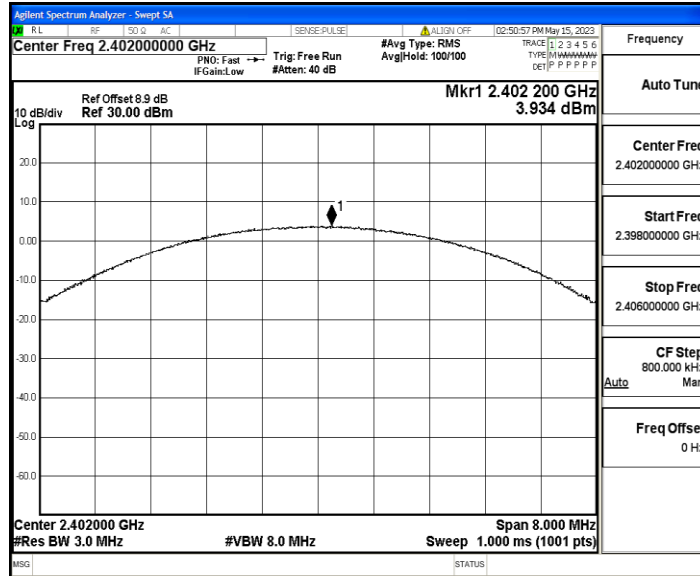
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.65	≤30.00	PASS
		2441	4.26	≤30.00	PASS
		2480	1.79	≤30.00	PASS
2DH5	Ant1	2402	3.93	≤20.97	PASS
		2441	4.33	≤20.97	PASS
		2480	2.16	≤20.97	PASS
3DH5	Ant1	2402	4.13	≤20.97	PASS
		2441	4.45	≤20.97	PASS
		2480	2.29	≤20.97	PASS

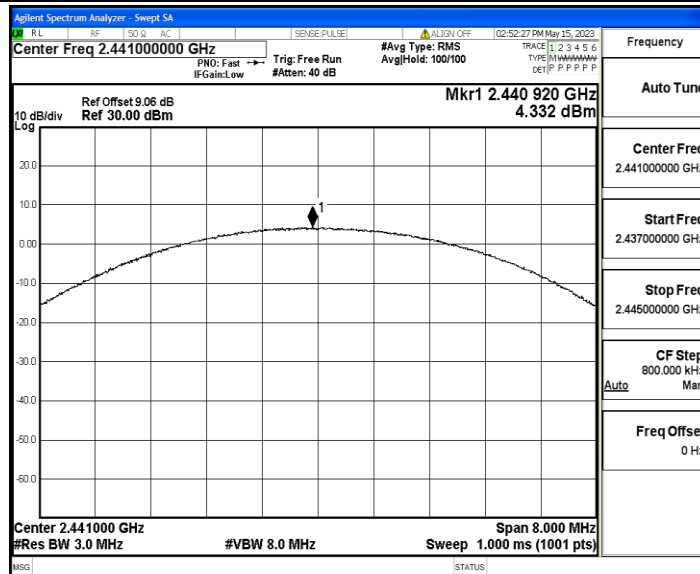
Test Graphs



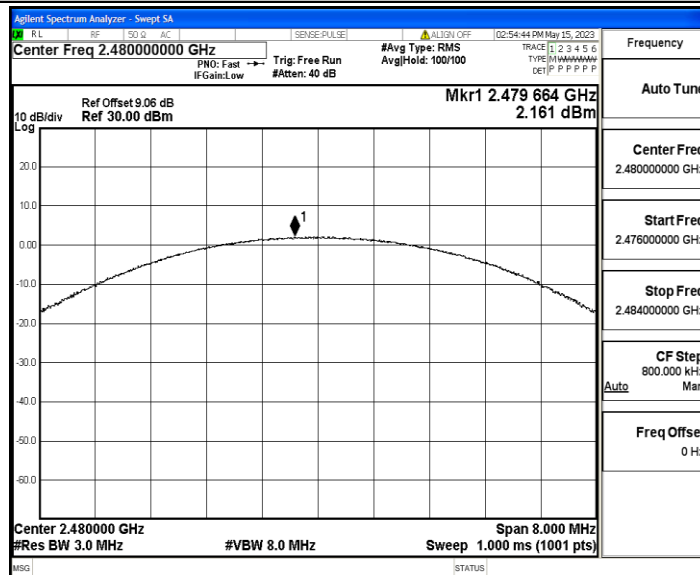
2DH5_Ant1_2402



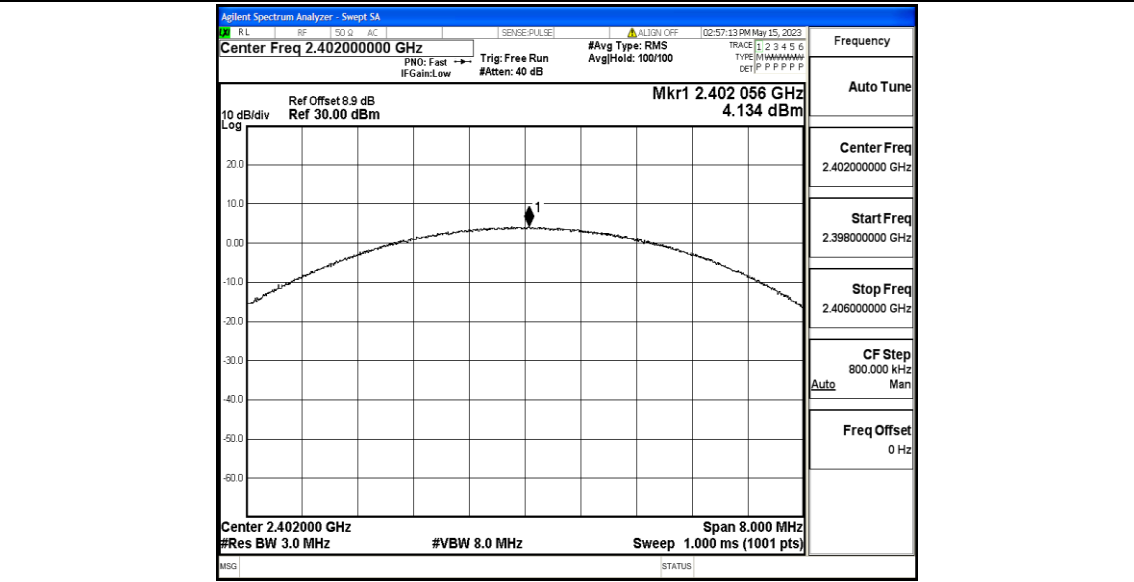
2DH5_Ant1_2441



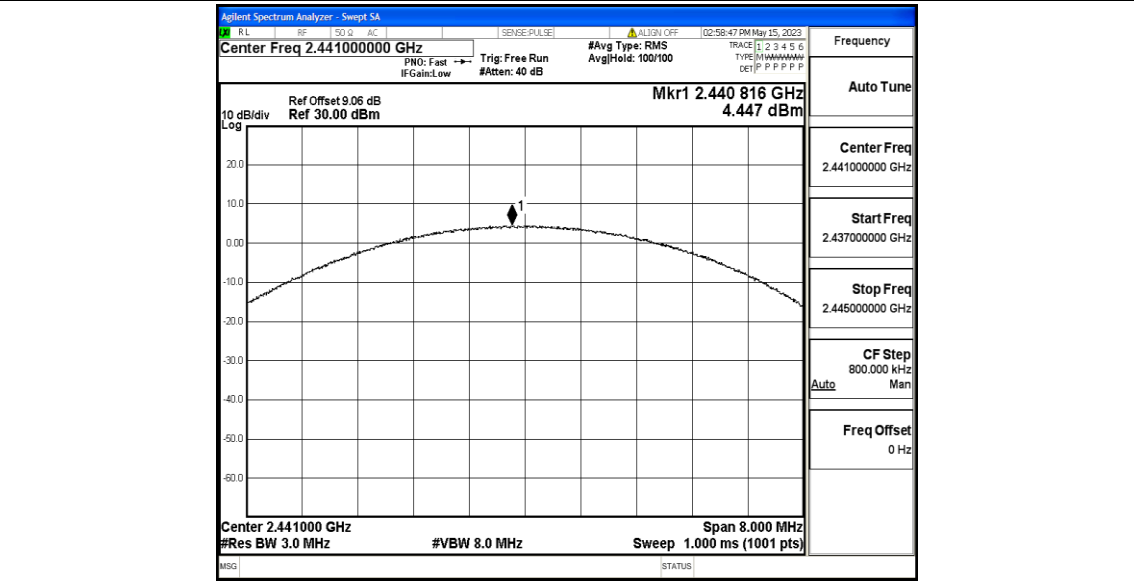
2DH5_Ant1_2480



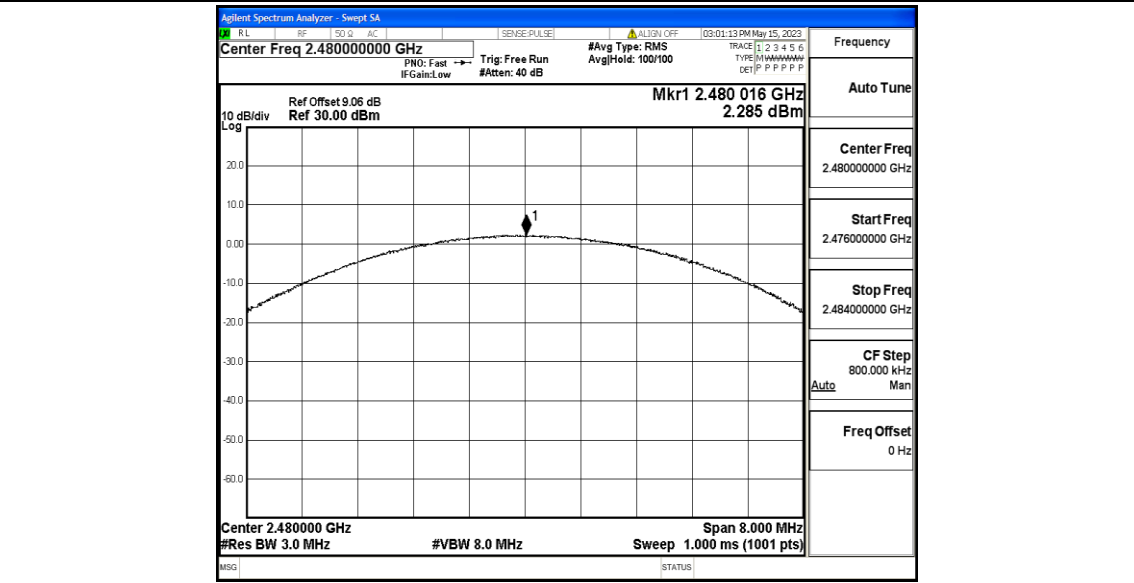
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

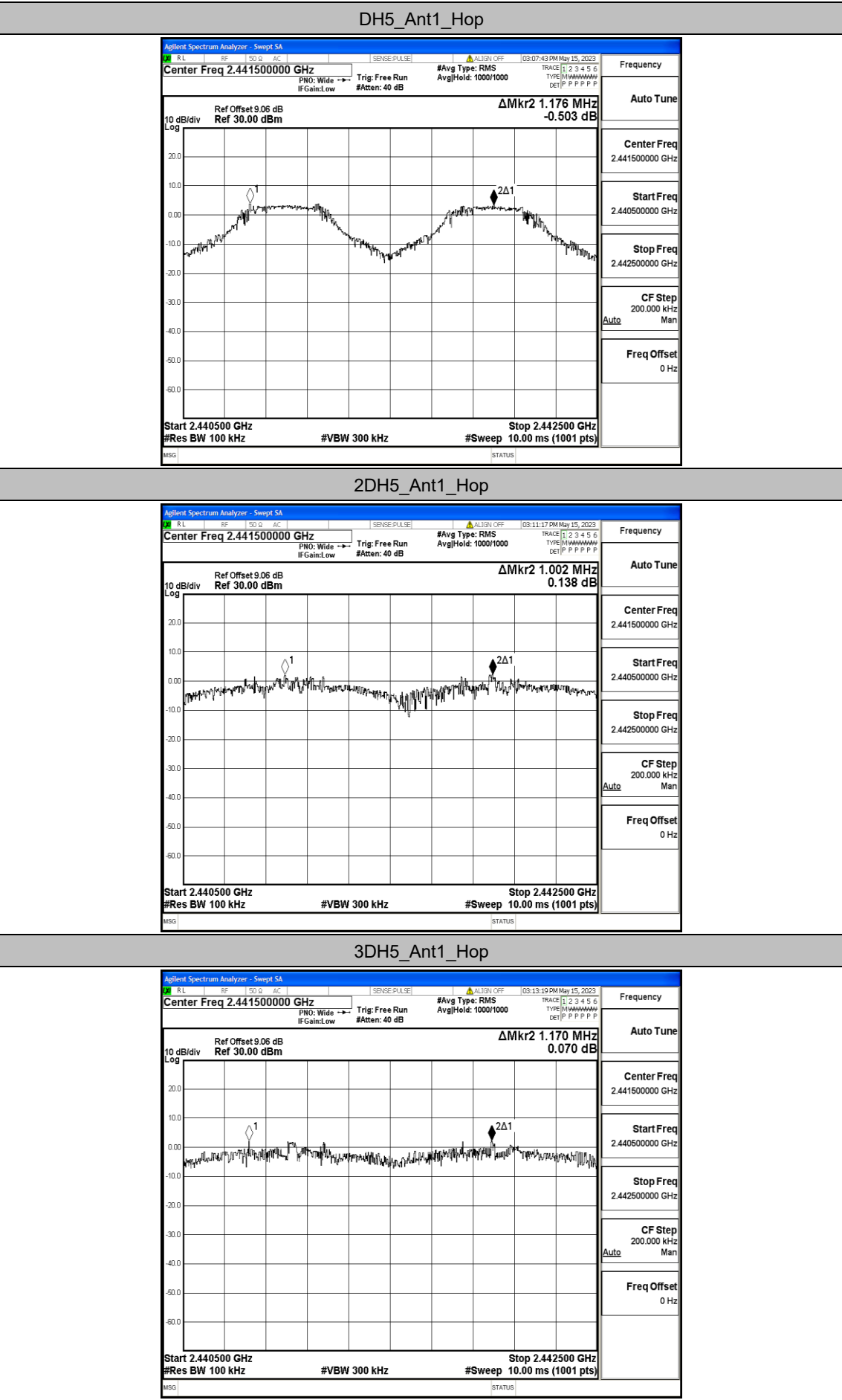


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.176	≥ 0.957	PASS
2DH5	Ant1	Hop	1.002	≥ 0.876	PASS
3DH5	Ant1	Hop	1.17	≥ 0.872	PASS

Test Graphs

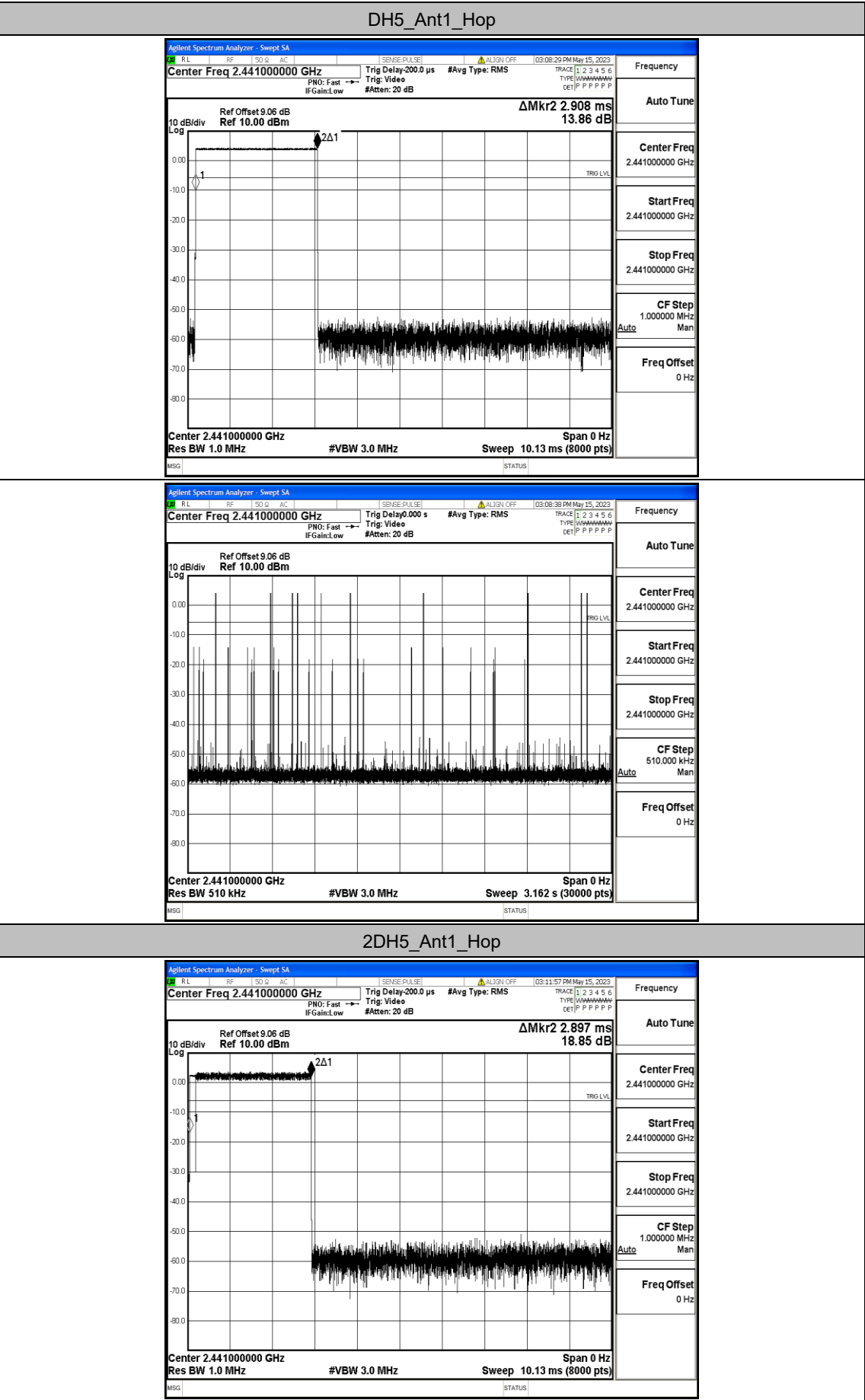


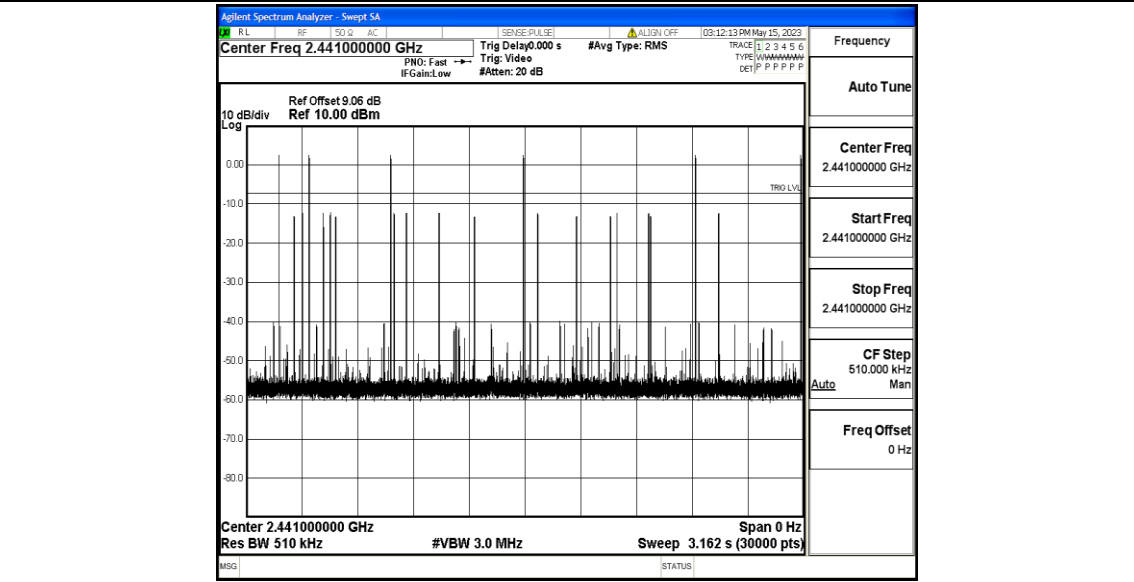
Appendix E: Time of occupancy

Test Result

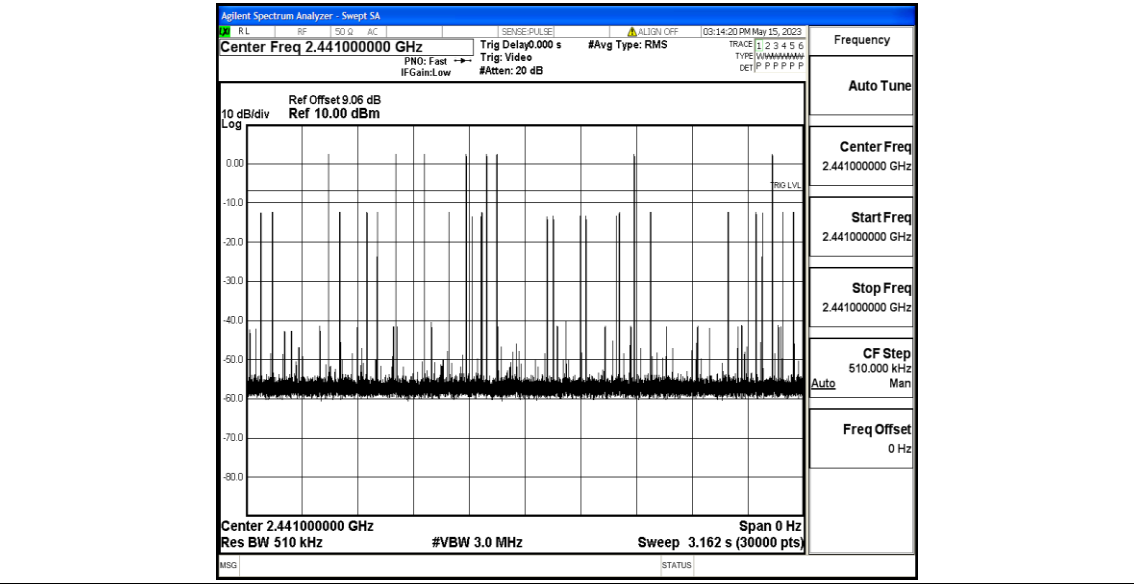
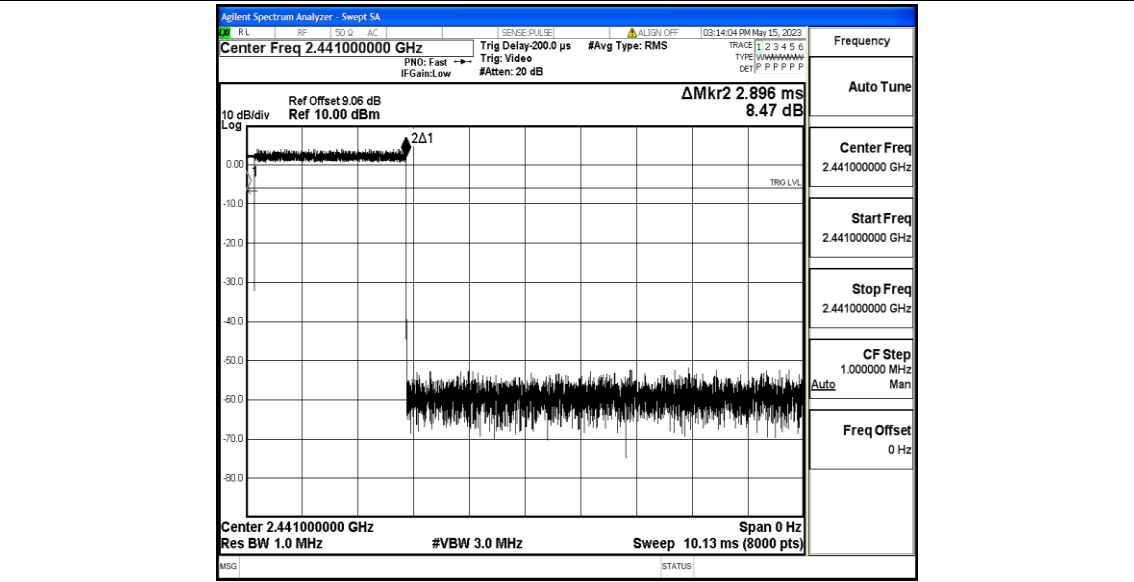
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.897	70	0.203	≤0.4	PASS
3DH5	Ant1	Hop	2.896	90	0.261	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop

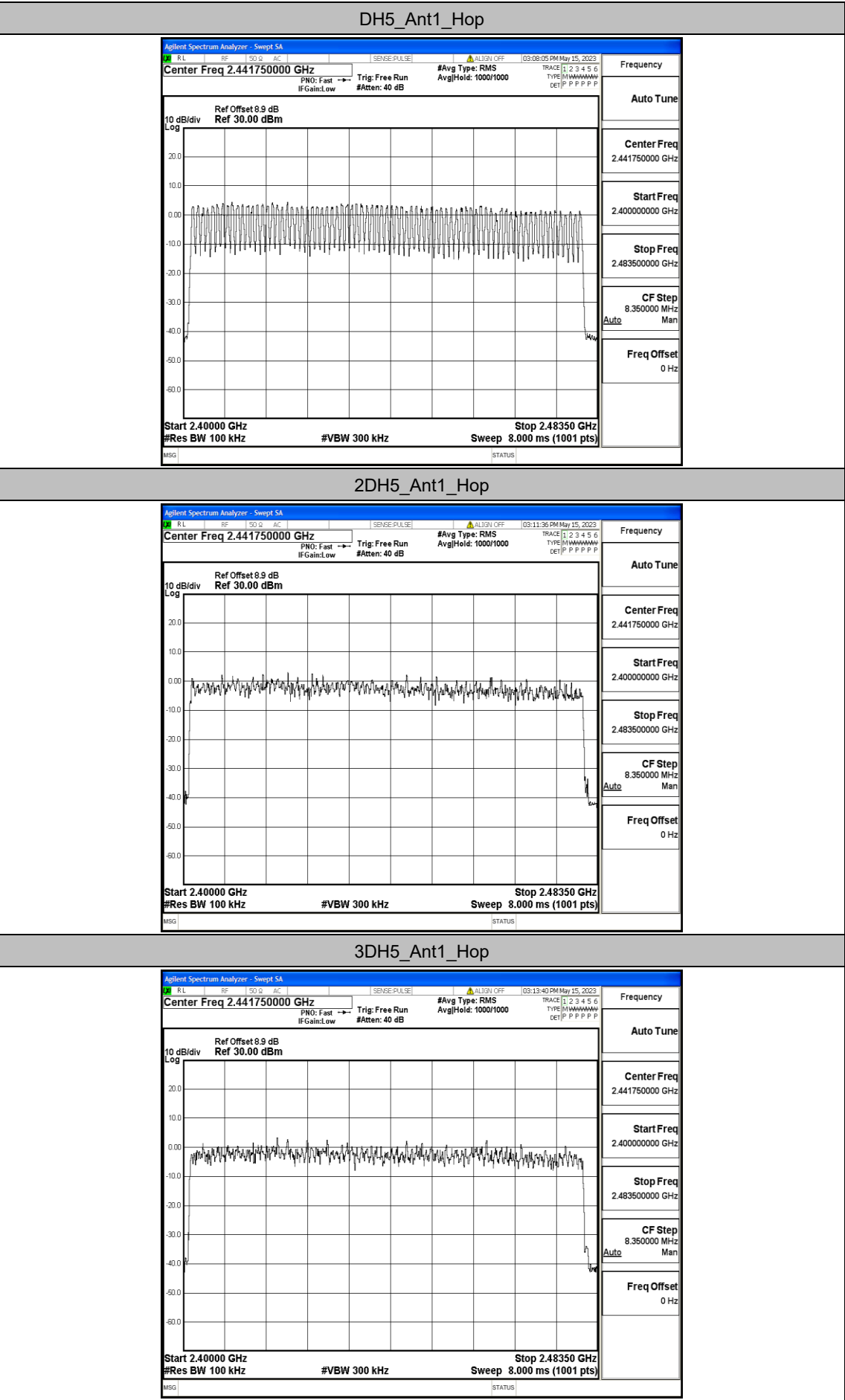


Appendix F: Number of hopping channels

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

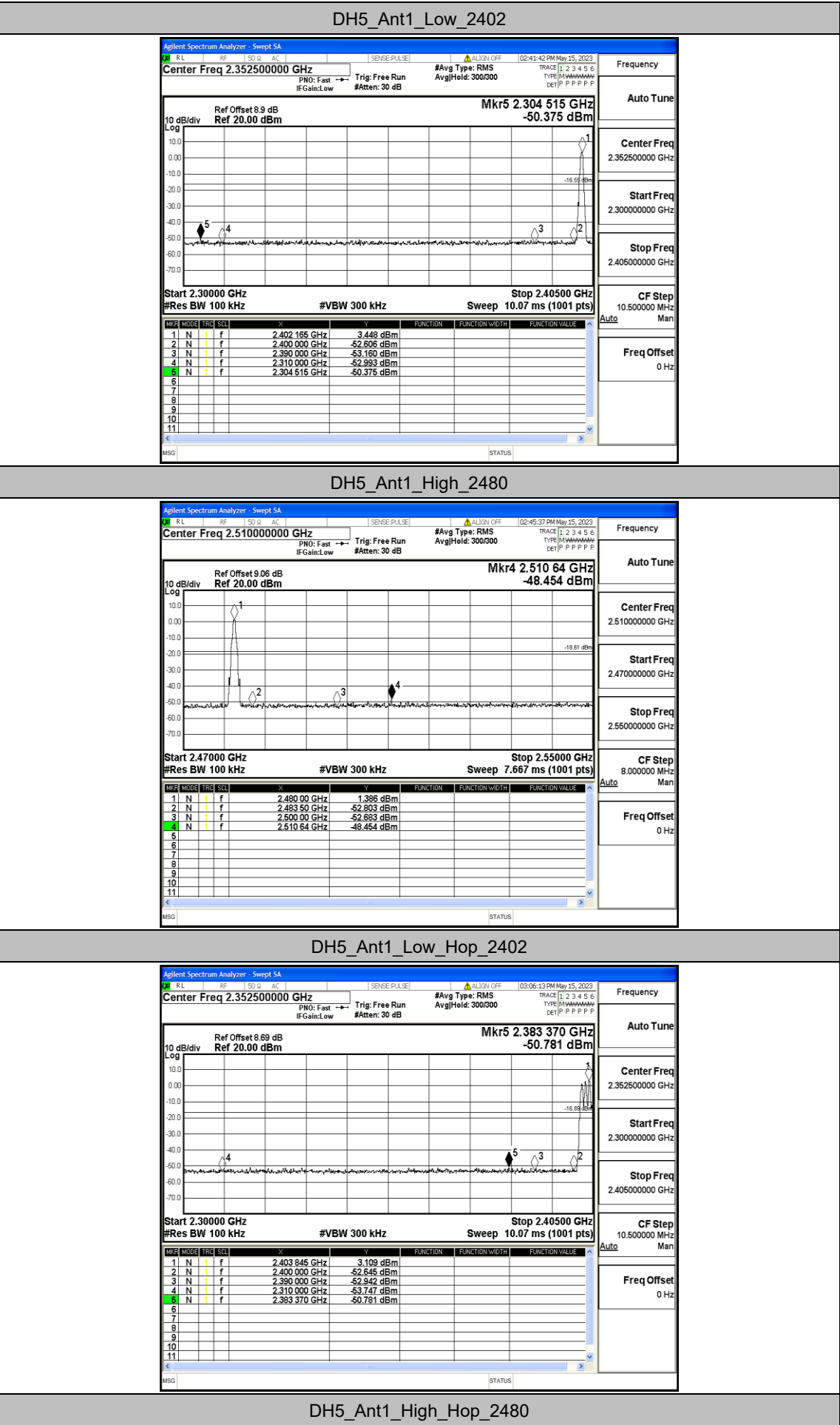


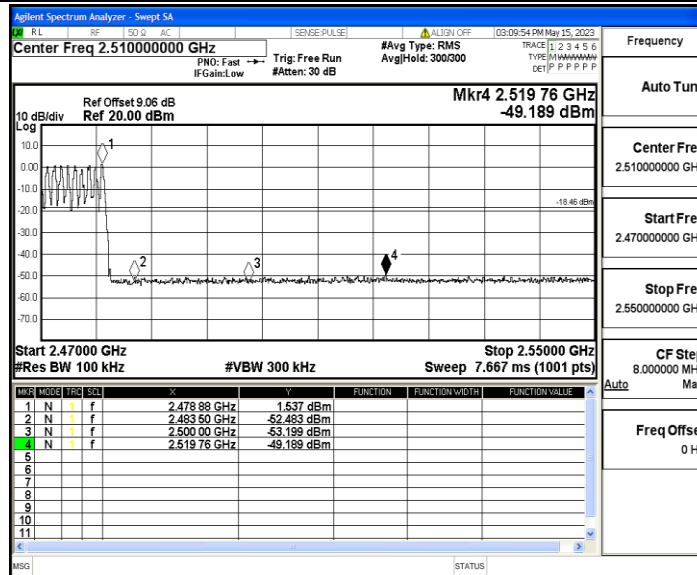
Appendix G: Band edge measurements

Test Result

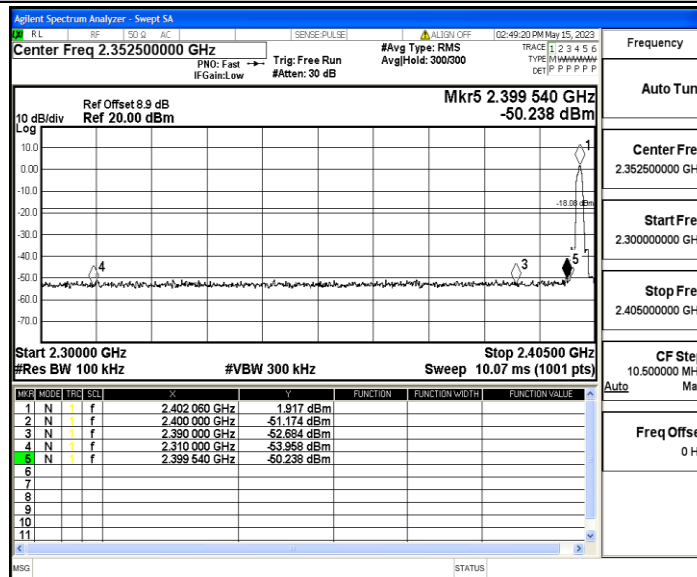
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.45	-50.38	≤-16.55	PASS
		High	2480	1.39	-48.45	≤-18.61	PASS
		Low	Hop_2402	3.11	-50.78	≤-16.89	PASS
		High	Hop_2480	1.54	-49.19	≤-18.46	PASS
2DH5	Ant1	Low	2402	1.92	-50.24	≤-18.08	PASS
		High	2480	-0.01	-49.73	≤-20.01	PASS
		Low	Hop_2402	1.21	-51.04	≤-18.79	PASS
		High	Hop_2480	-1.18	-48.81	≤-21.18	PASS
3DH5	Ant1	Low	2402	1.91	-49.65	≤-18.09	PASS
		High	2480	0.27	-49.65	≤-19.73	PASS
		Low	Hop_2402	0.71	-50.68	≤-19.3	PASS
		High	Hop_2480	0.36	-49.43	≤-19.65	PASS

Test Graphs

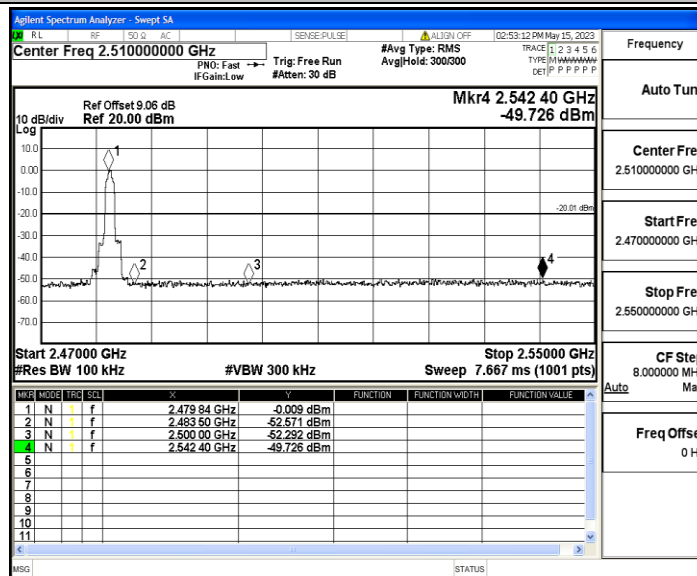




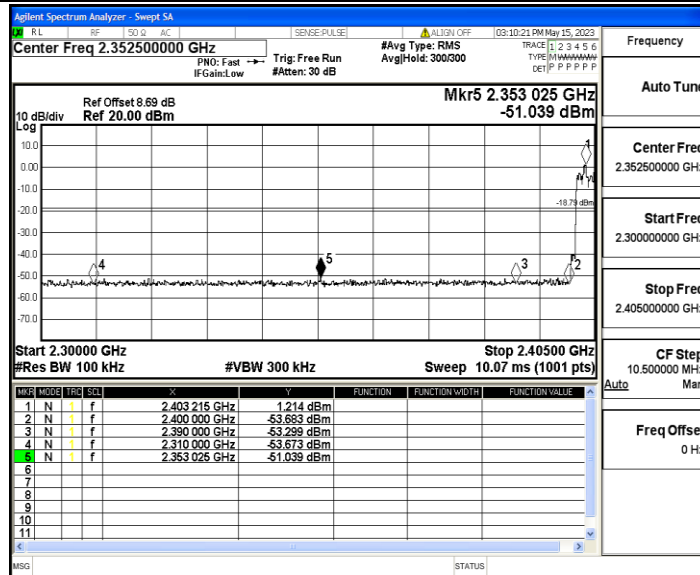
2DH5_Ant1_Low_2402



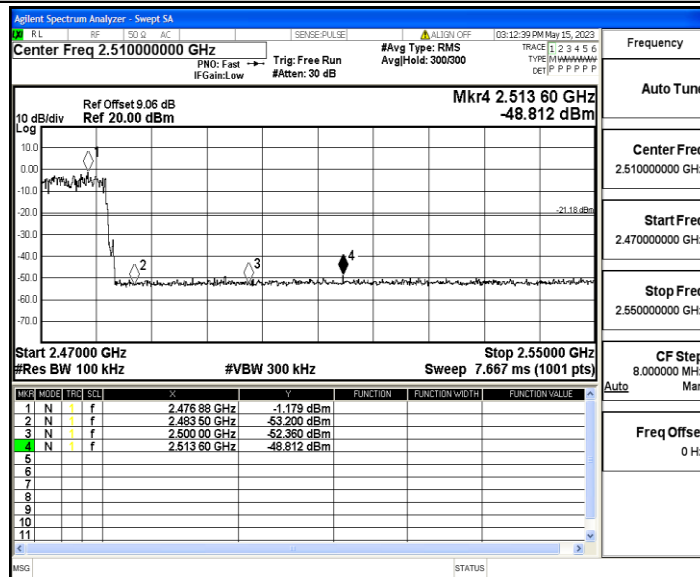
2DH5_Ant1_High_2480



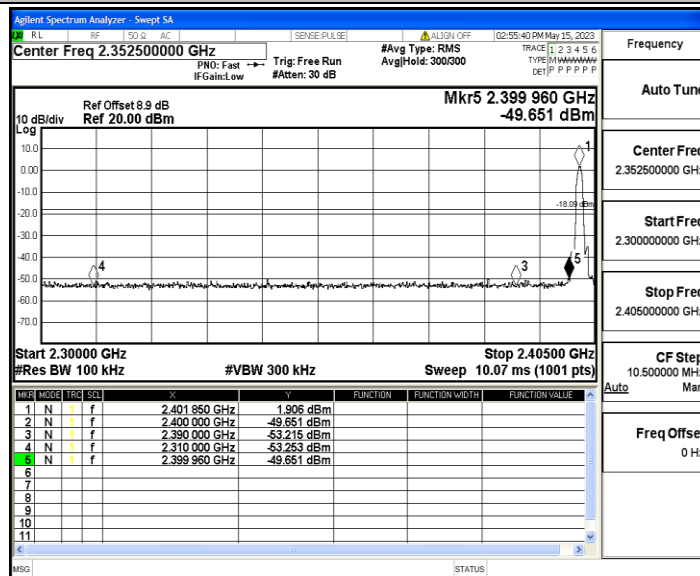
2DH5_Ant1_Low_Hop_2402



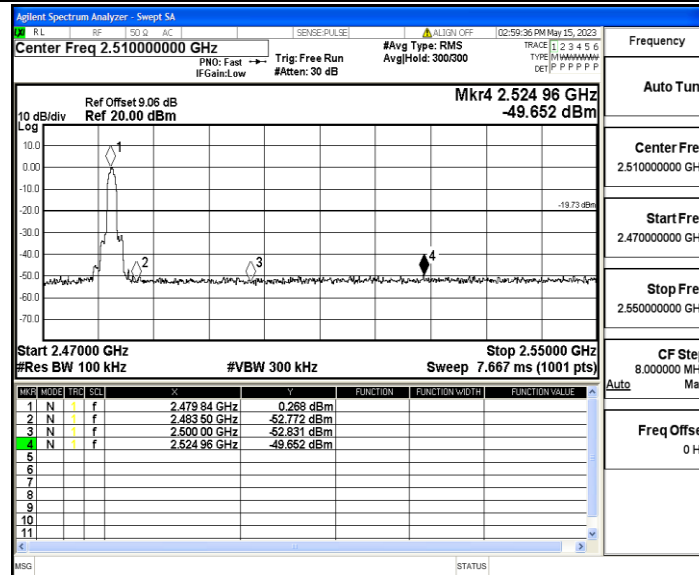
2DH5_Ant1_High_Hop_2480



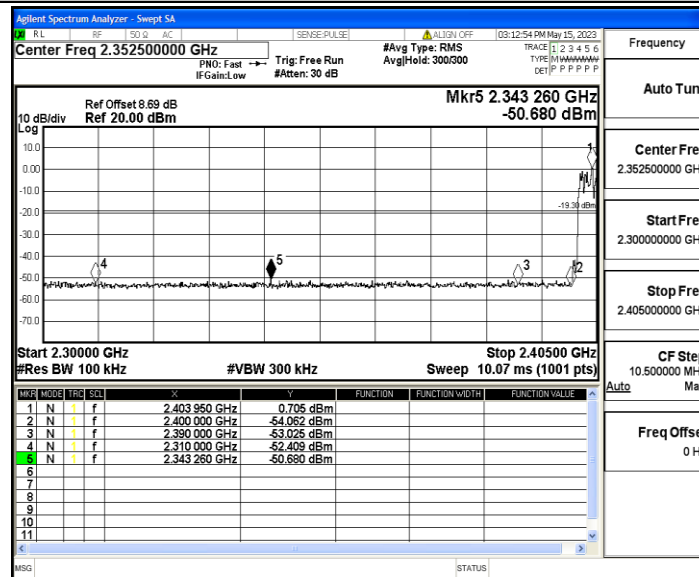
3DH5_Ant1_Low_2402



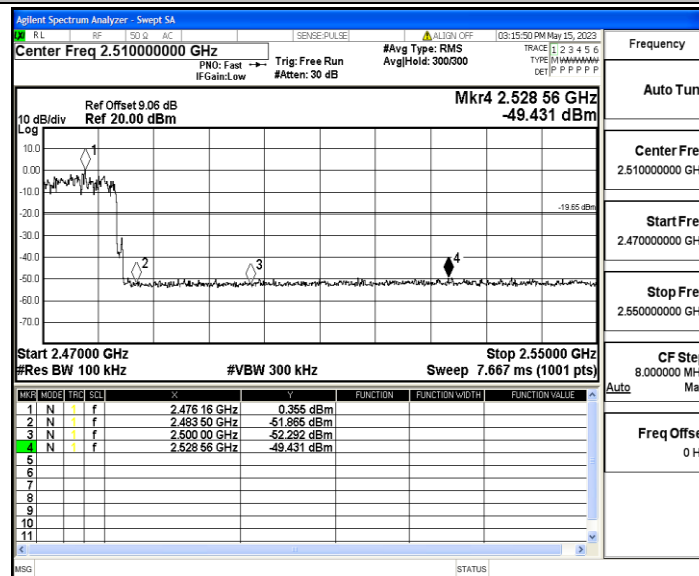
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

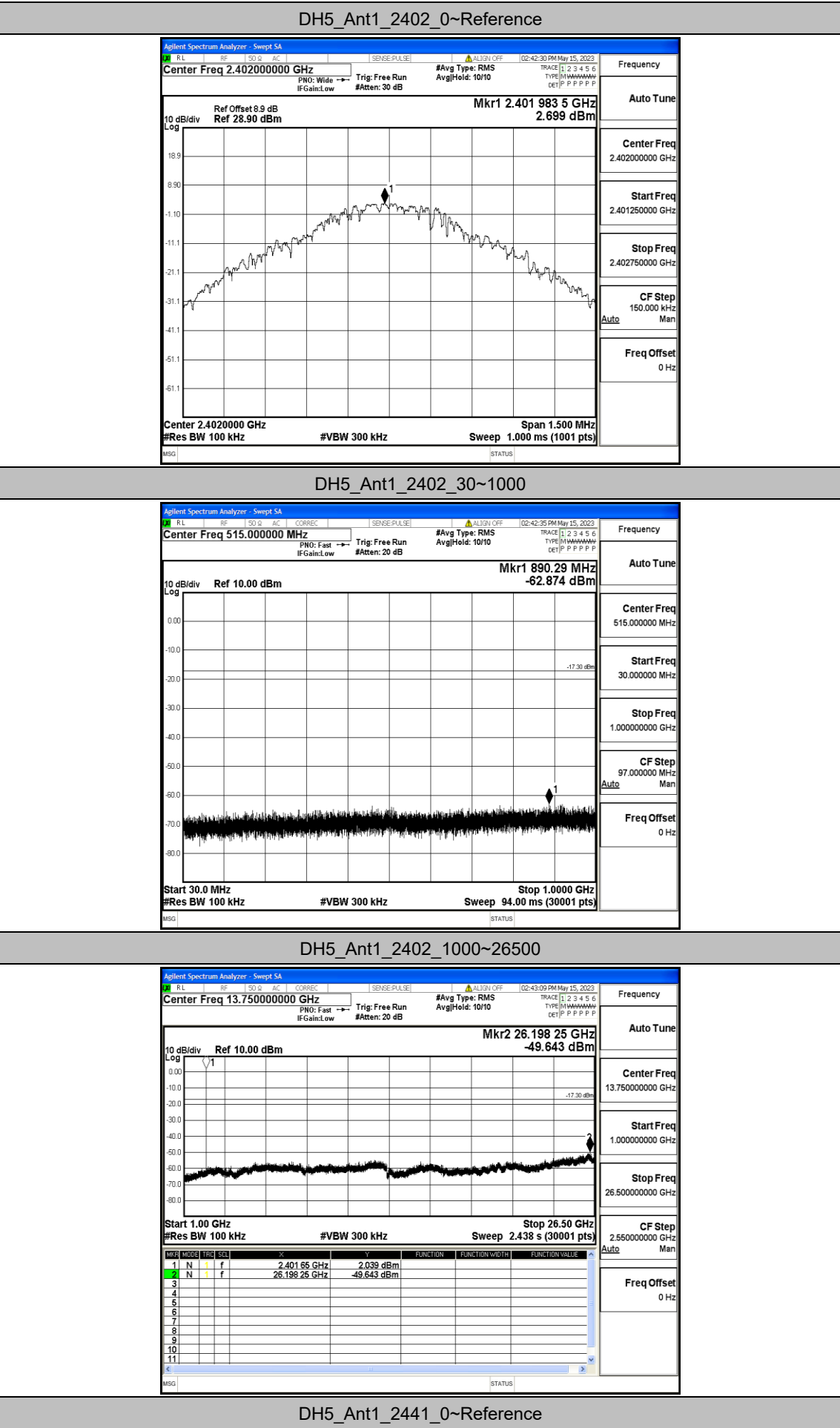


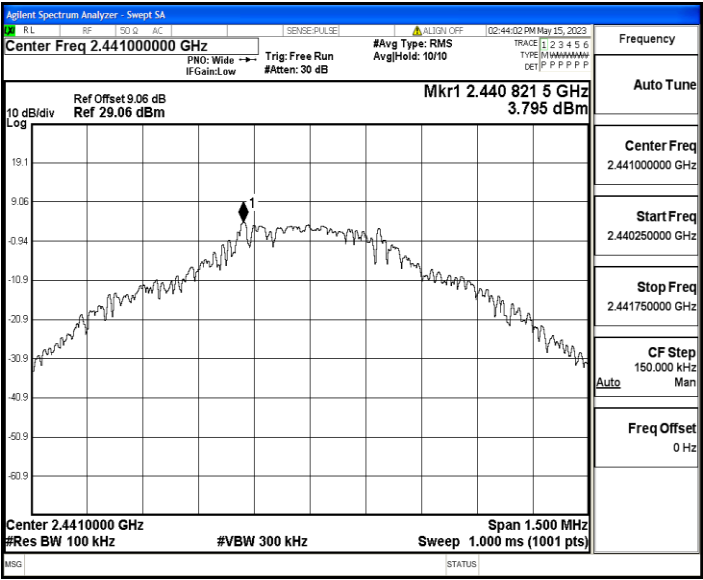
Appendix H: Conducted Spurious Emission

Test Result

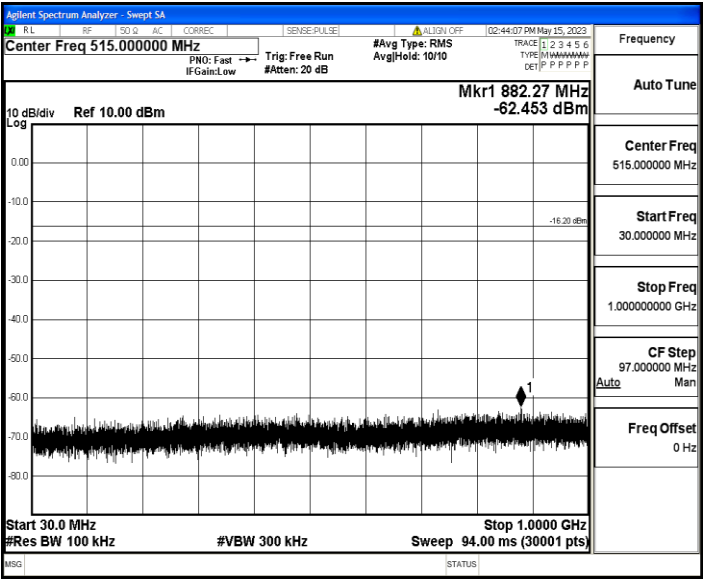
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-62.87	≤-17.3	PASS
			1000~26500	2.70	-49.64	≤-17.3	PASS
		2441	Reference	3.80	3.80	---	PASS
			30~1000	3.80	-62.45	≤-16.2	PASS
			1000~26500	3.80	-49.55	≤-16.2	PASS
		2480	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-63.24	≤-18.56	PASS
			1000~26500	1.44	-50.45	≤-18.56	PASS
2DH5	Ant1	2402	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-62.94	≤-19.02	PASS
			1000~26500	0.98	-50.01	≤-19.02	PASS
		2441	Reference	2.09	2.09	---	PASS
			30~1000	2.09	-62.74	≤-17.91	PASS
			1000~26500	2.09	-50.24	≤-17.91	PASS
		2480	Reference	-0.33	-0.33	---	PASS
			30~1000	-0.33	-62.79	≤-20.33	PASS
			1000~26500	-0.33	-50.16	≤-20.33	PASS
3DH5	Ant1	2402	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-62.89	≤-19.93	PASS
			1000~26500	0.07	-50.34	≤-19.93	PASS
		2441	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-62.57	≤-21.15	PASS
			1000~26500	-1.15	-50.76	≤-21.15	PASS
		2480	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-62.35	≤-19.73	PASS
			1000~26500	0.27	-50.46	≤-19.73	PASS

Test Graphs

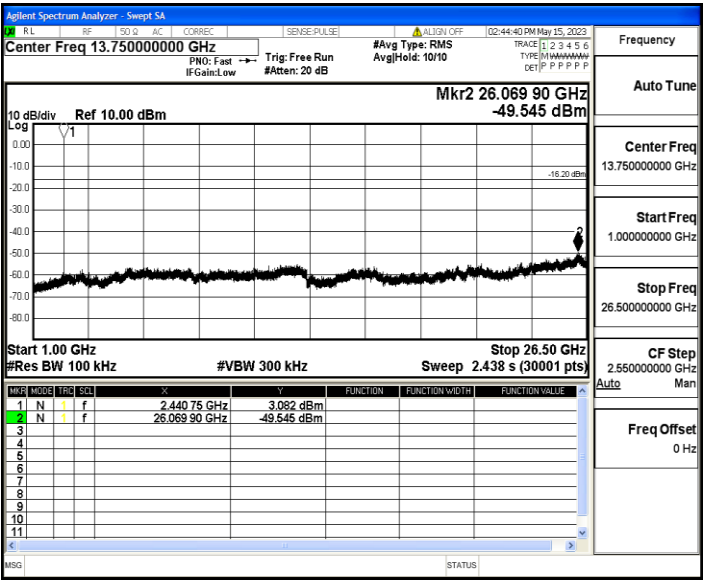




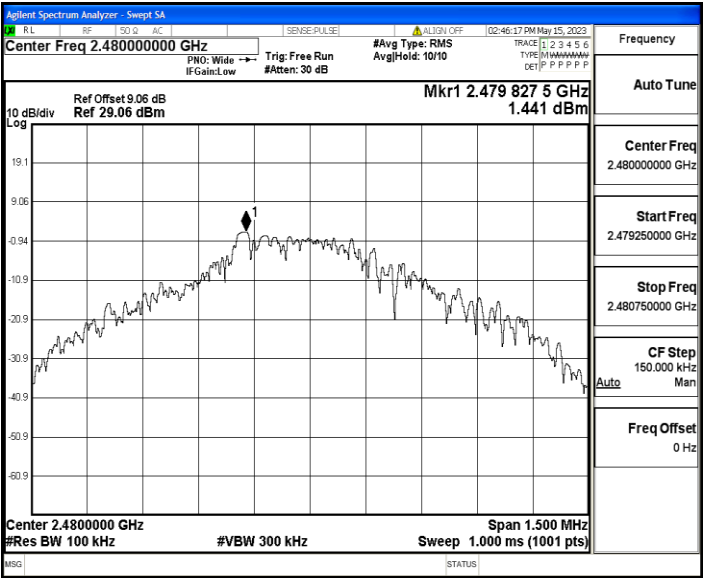
DH5_Ant1_2441_30~1000



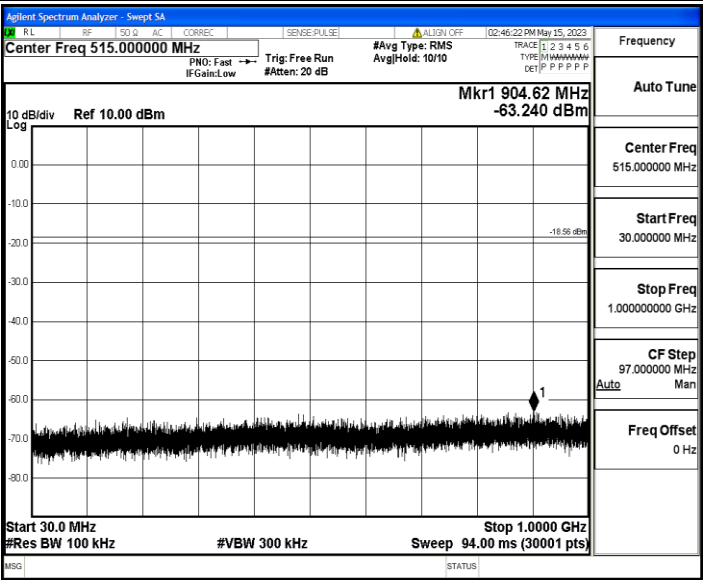
DH5_Ant1_2441_1000~26500



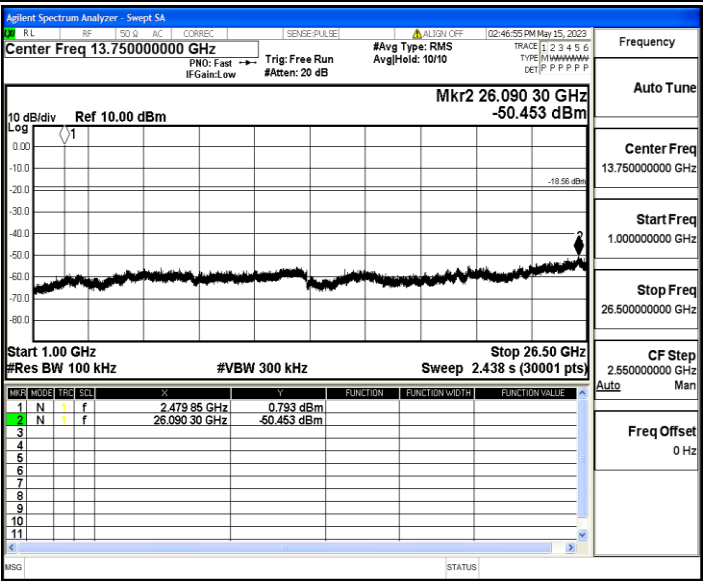
DH5_Ant1_2480_0~Reference



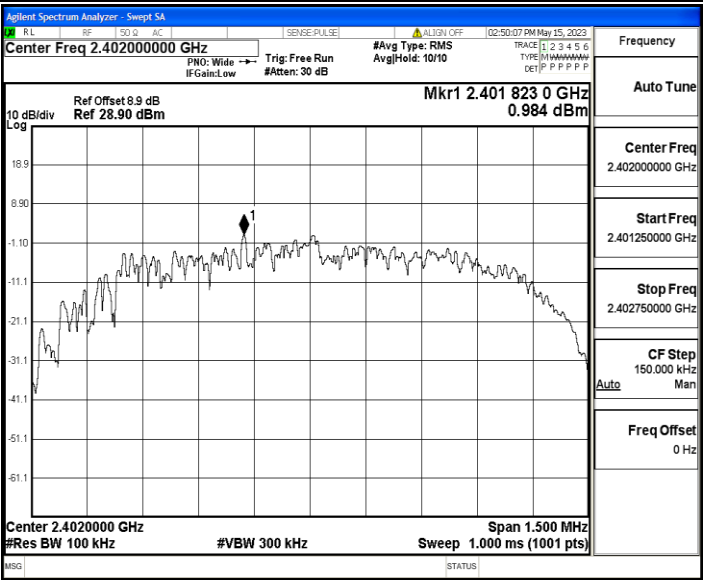
DH5_Ant1_2480_30~1000



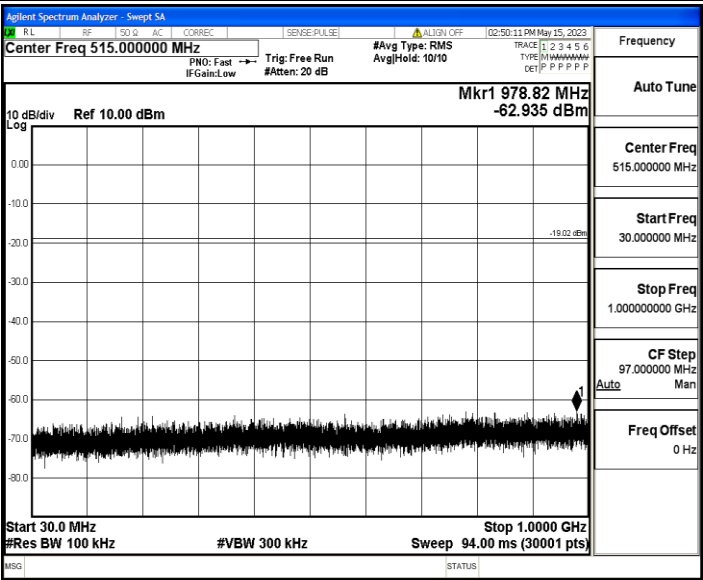
DH5_Ant1_2480_1000~26500



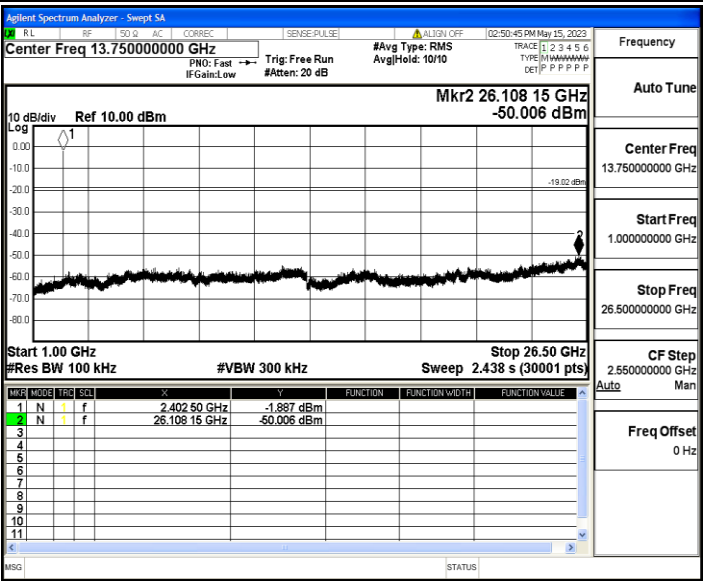
2DH5_Ant1_2402_0~Reference



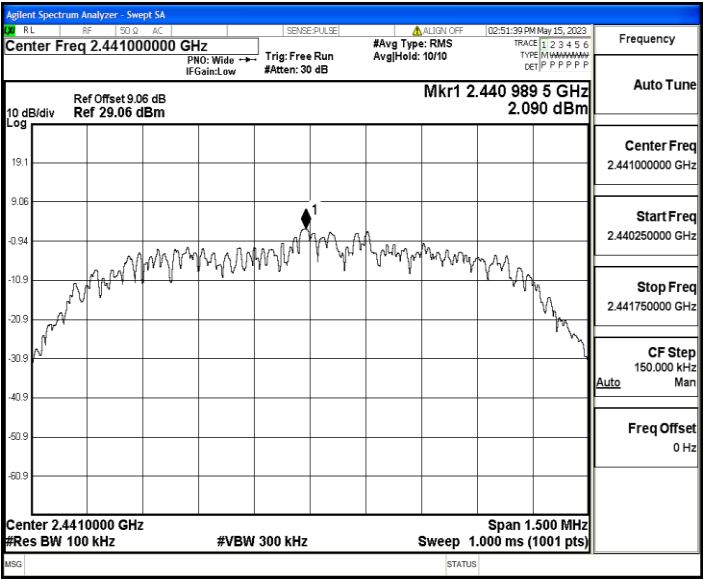
2DH5_Ant1_2402_30~1000



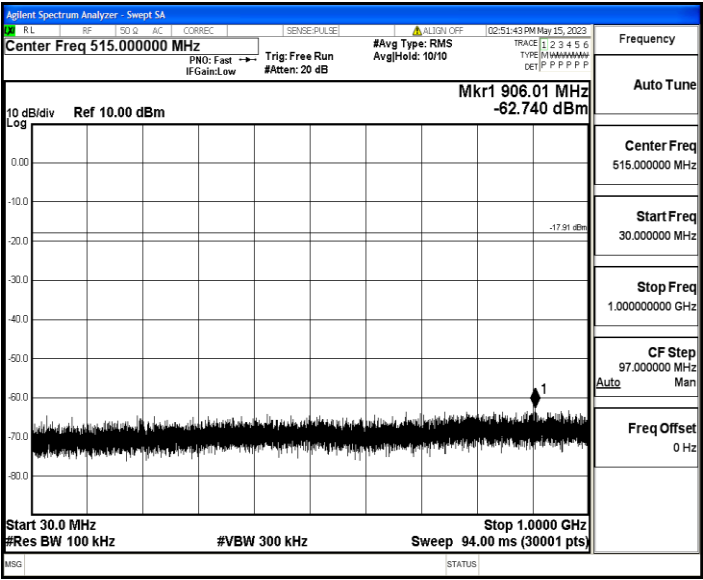
2DH5_Ant1_2402_1000~26500



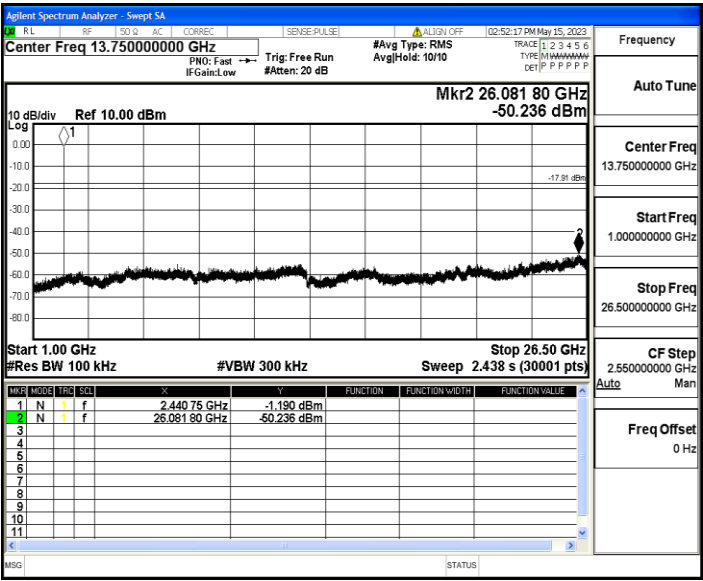
2DH5_Ant1_2441_0~Reference



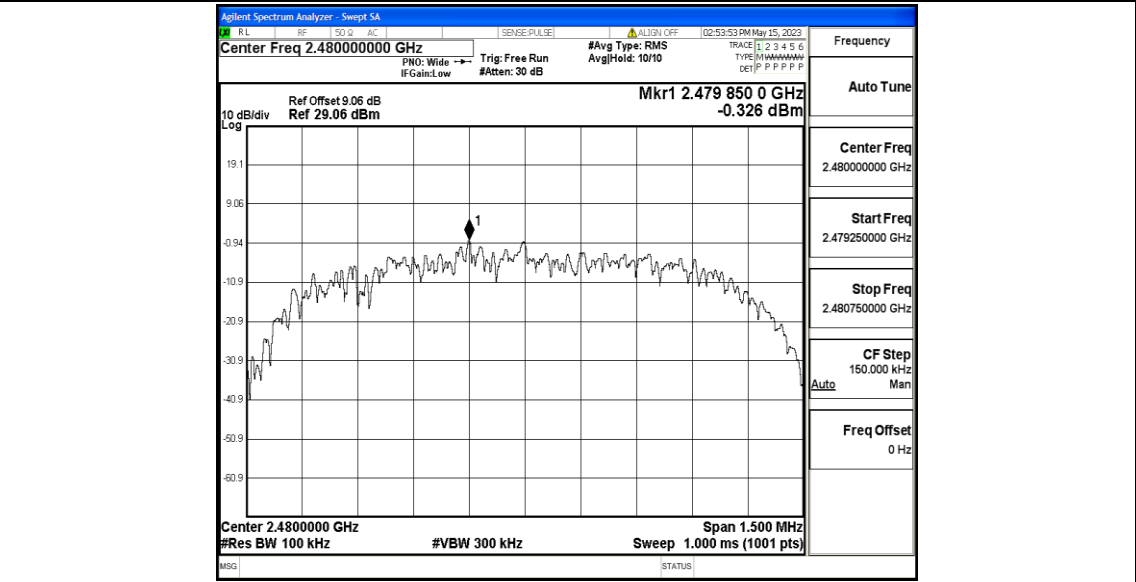
2DH5_Ant1_2441_30~1000



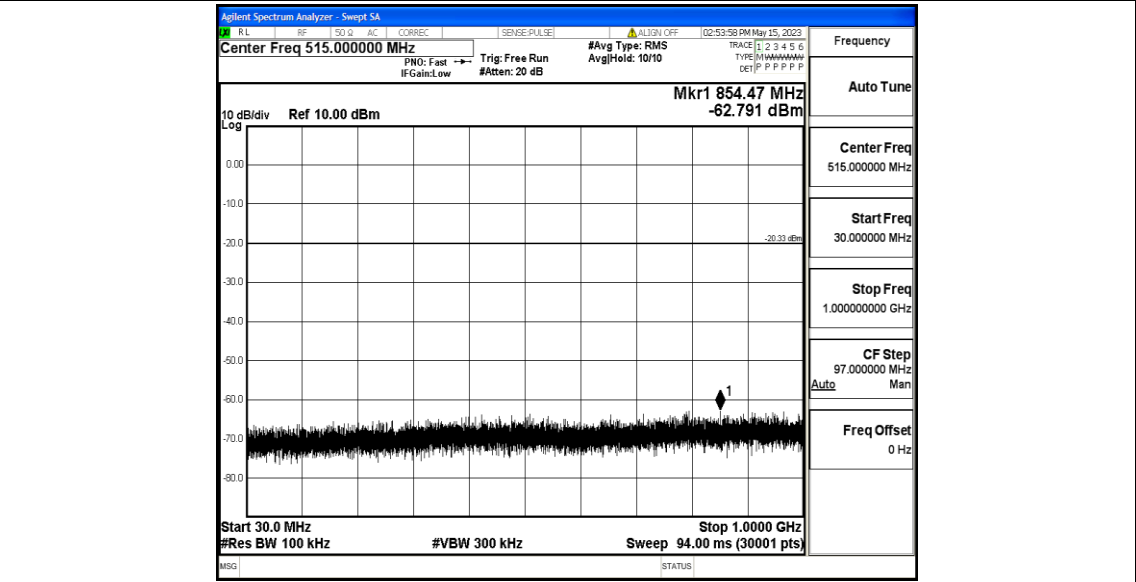
2DH5_Ant1_2441_1000~26500



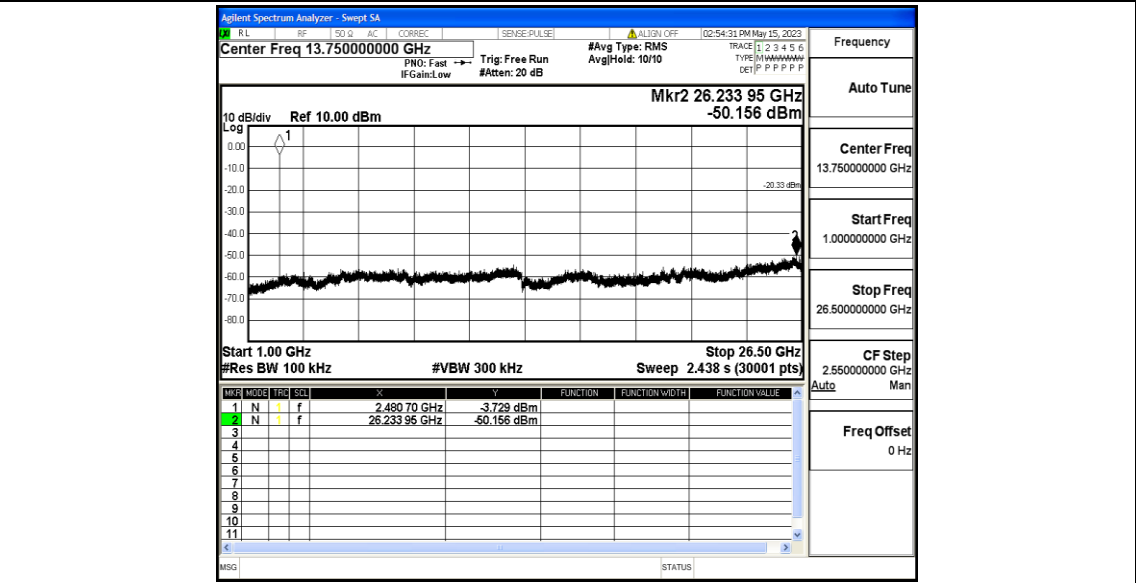
2DH5_Ant1_2480_0~Reference



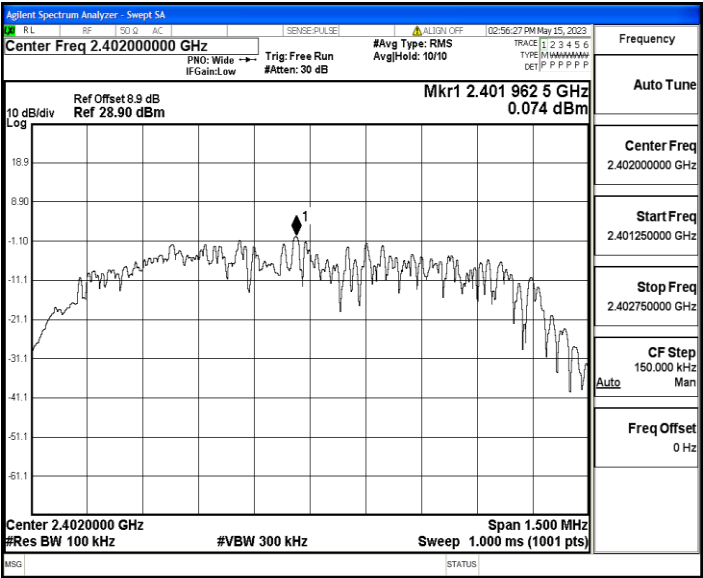
2DH5_Ant1_2480_30~1000



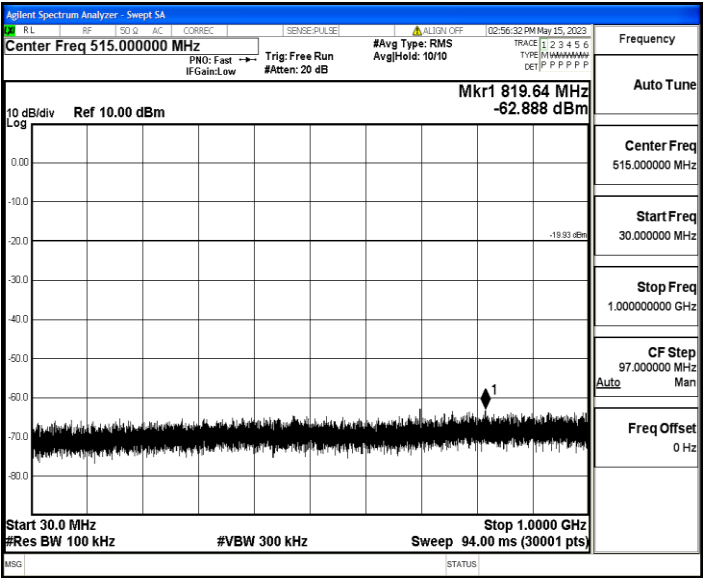
2DH5_Ant1_2480_1000~26500



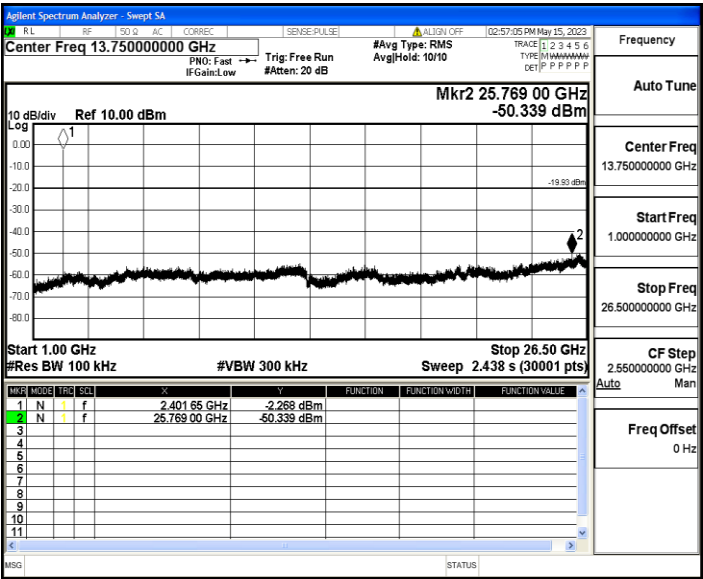
3DH5_Ant1_2402_0~Reference



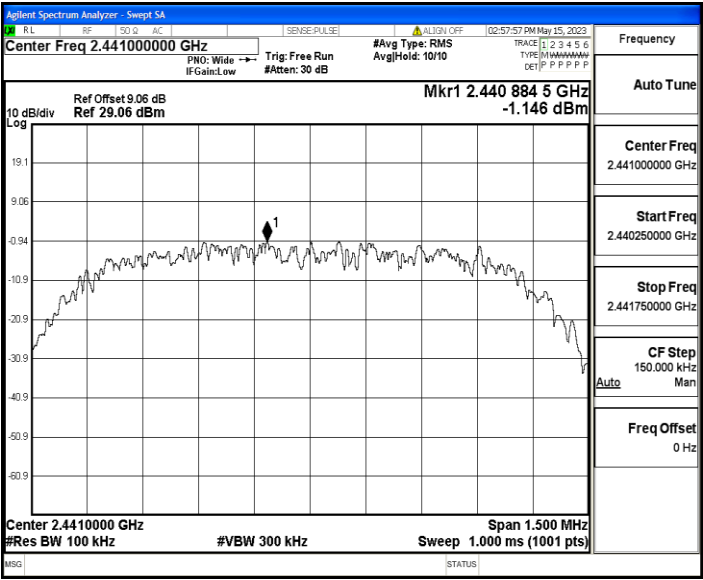
3DH5_Ant1_2402_30~1000



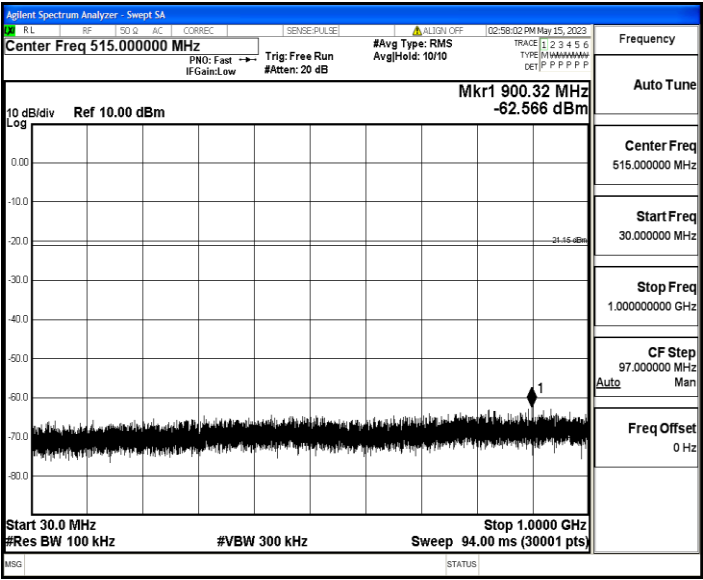
3DH5_Ant1_2402_1000~26500



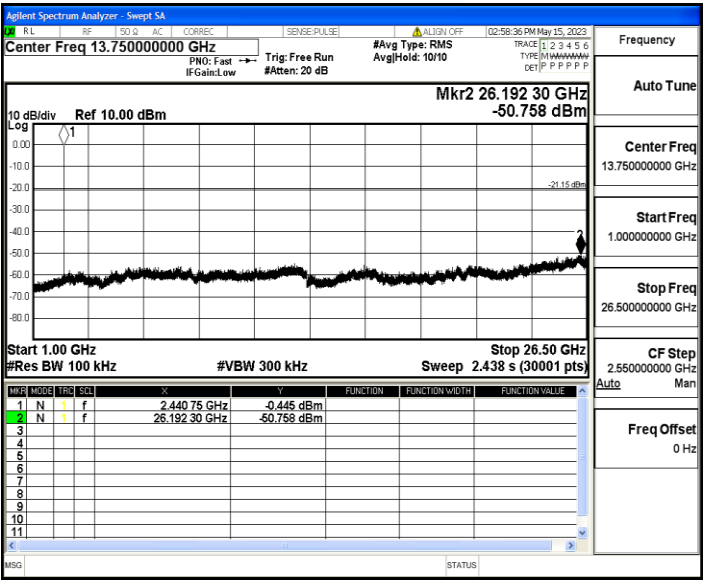
3DH5_Ant1_2441_0~Reference



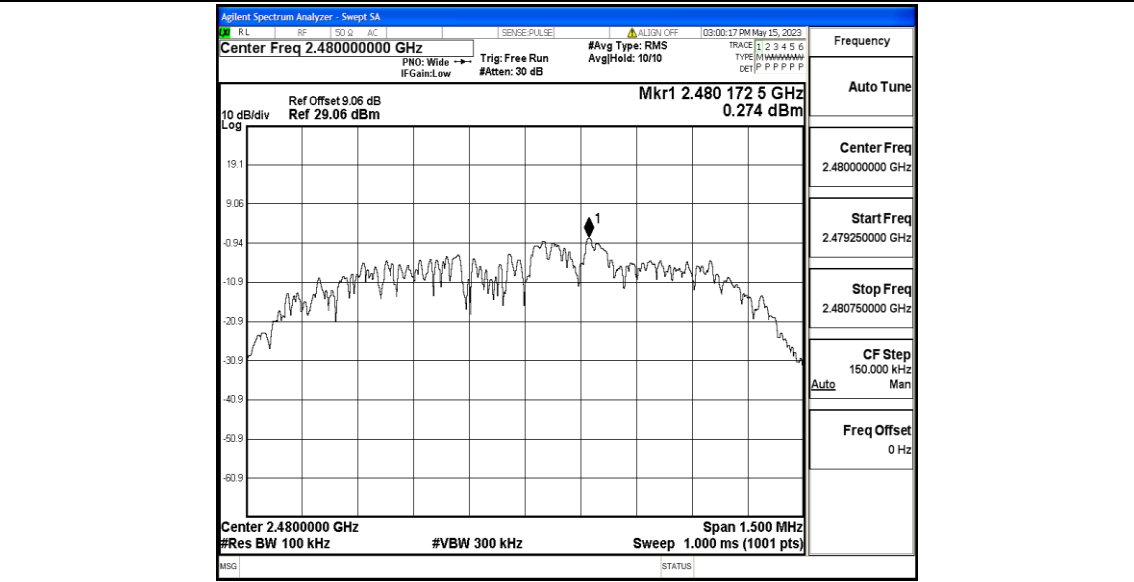
3DH5_Ant1_2441_30~1000



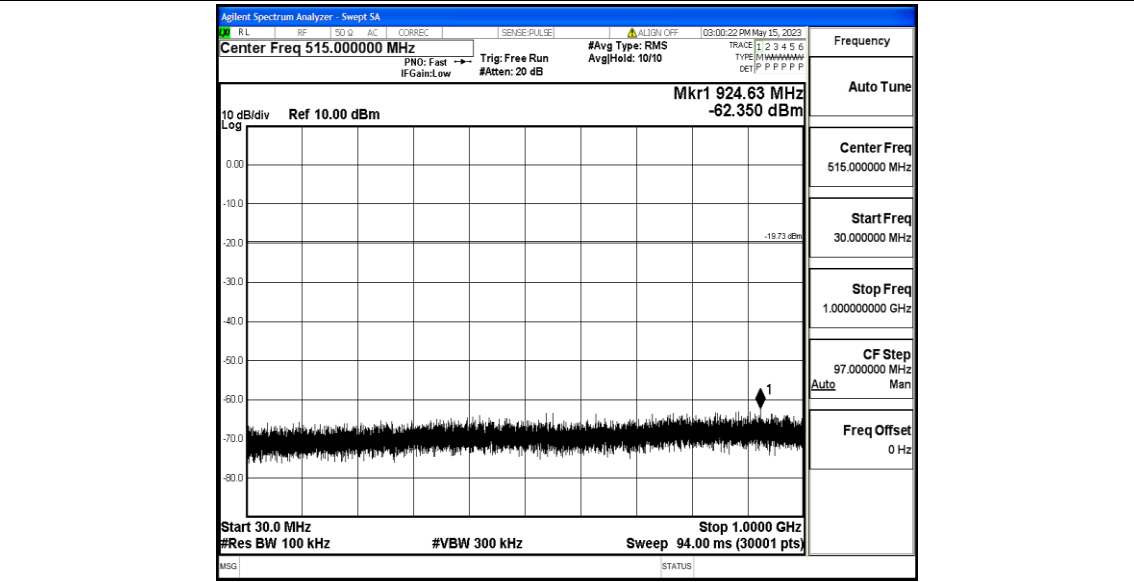
3DH5_Ant1_2441_1000~26500



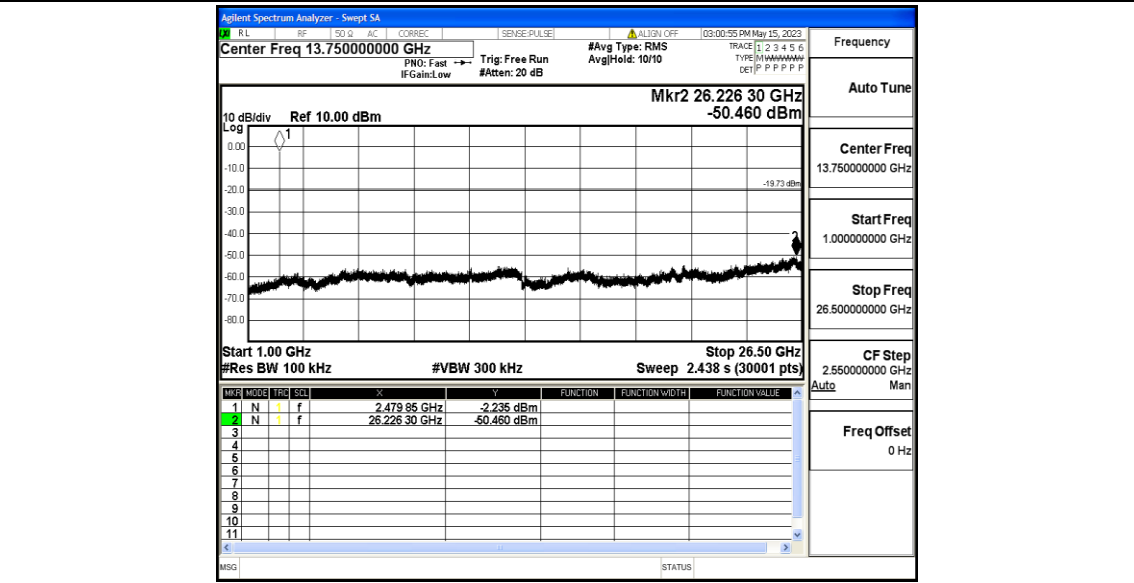
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.91	3.75	77.60	0.34
		2441	2.90	3.74	77.54	0.34
		2480	2.90	3.75	77.33	0.34
2DH5	Ant1	2402	2.75	3.60	76.39	0.36
		2441	2.75	3.60	76.39	0.36
		2480	2.76	3.61	76.45	0.36
3DH5	Ant1	2402	2.76	3.61	76.45	0.36
		2441	2.75	3.61	76.18	0.36
		2480	2.75	3.61	76.18	0.36

Test Graphs

